

GENERAL NOTES

- CONTRACTOR SHALL VERIFY DIMENSIONS, LOCATIONS, AND CONDITIONS OF ALL EXISTING ITEMS WITHIN OR ADJACENT TO THE WORK OR THAT MAY BE DISTURBED BY THE WORK BEFORE STARTING THE WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PROTECT ALL EXISTING APPURTENANCES THAT REMAIN.
- CONTRACTOR SHALL RESTORE ALL DAMAGED OR DISTURBED AREAS TO THEIR ORIGINAL CONDITION AFTER COMPLETION OF THE WORK.
- REFER TO SECTION 01140 FOR WORK RESTRICTIONS INCLUDING SCHEDULE AND SEQUENCING CONSTRAINTS AND REQUIREMENTS.
- ADDITIONAL SITE PREPARATION AND DEMOLITION REQUIREMENTS ARE INCLUDED IN THE TECHNICAL SPECIFICATIONS.
- CONTRACTOR SHALL REFER TO ALL RELATED DRAWINGS AND TO MANUFACTURER'S DRAWINGS FOR EQUIPMENT AND FACILITY DETAILS.
- MAINTAIN ACCESS FOR CITY EMPLOYEES AT ALL TIMES DURING CONSTRUCTION.
- OBSERVE SPEED LIMITS AT THE SITE AT ALL TIMES. THE ACCESS ROAD AND SOUTH SIDE OF THE WATER TREATMENT PLANT ARE BORDERED BY RESIDENCES AND THERE ARE OFTEN CHILDREN PLAYING ON THE ROADS.

DEFERRED SUBMITTALS

- THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS. DEFERRED SUBMITTALS LISTED BELOW ARE THE RESPONSIBILITY OF THE CONTRACTOR. DEFERRED SUBMITTAL ITEMS HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD. REFER TO CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
 - ANCHORAGE CALCULATIONS
- UNLESS OTHERWISE NOTED, DEFERRED SUBMITTAL ITEMS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL CIVIL OR WHERE APPLICABLE BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON.
- DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL DURING THE CONSTRUCTION PHASE OF THE PROJECT.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED UNTIL THE ENGINEER OF RECORD HAS REVIEWED THE SUBMITTAL DOCUMENTS AND INDICATED THAT THEY HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND THE SUBMITTAL DOCUMENTS HAVE BEEN FAVORABLY REVIEWED BY THE OWNER.

SITE PLAN



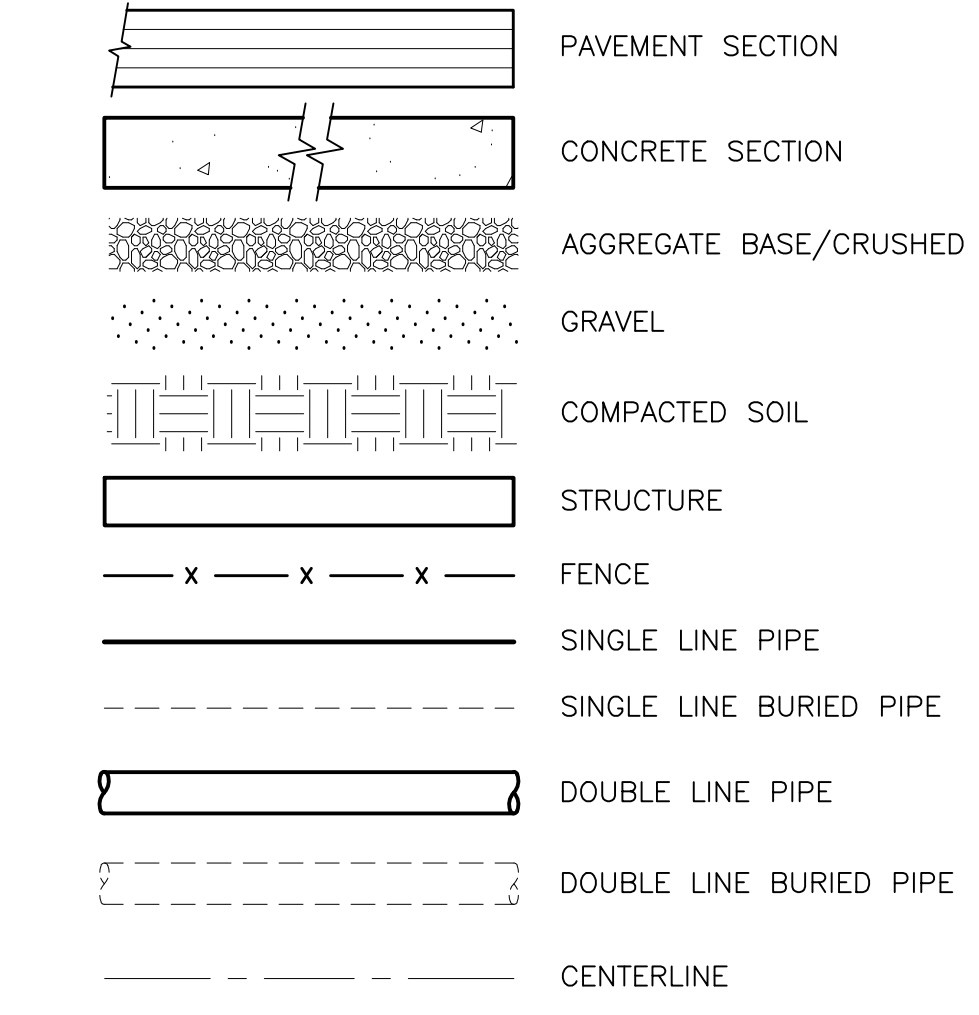
NOT TO SCALE

ABBREVIATIONS

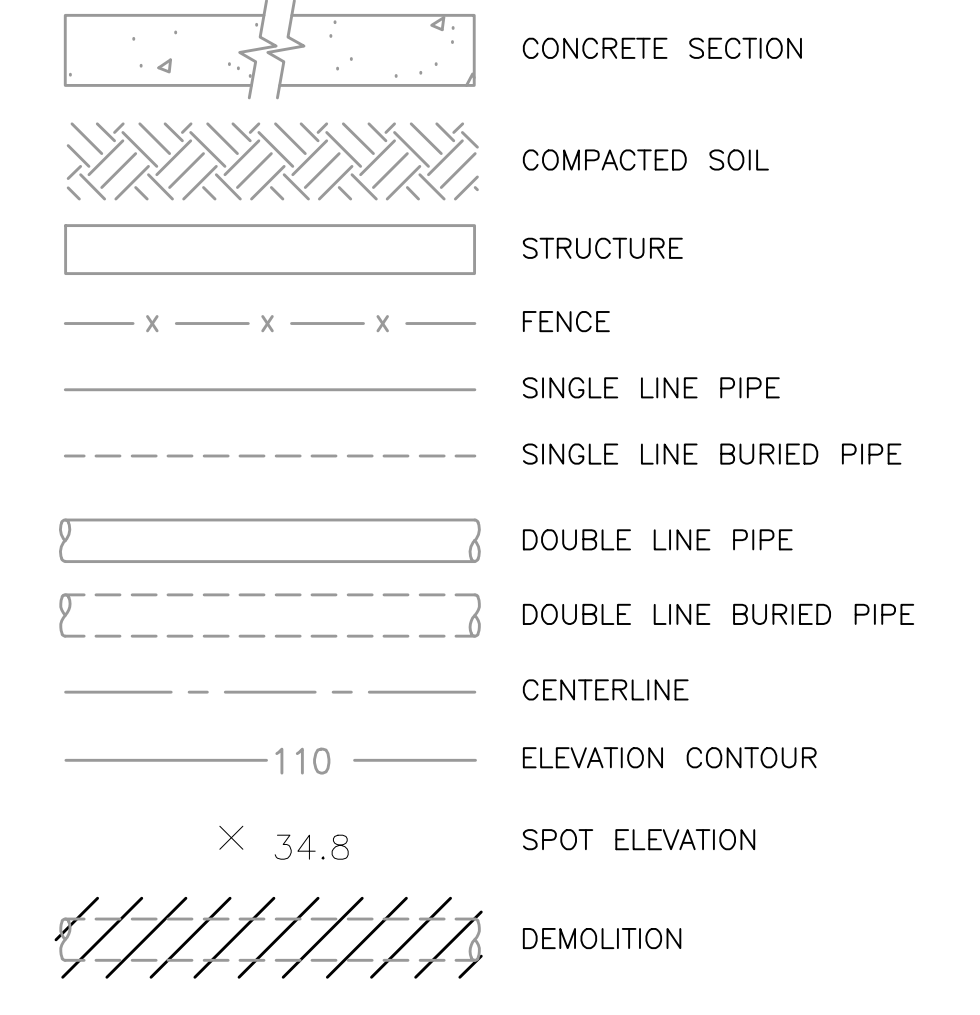
AB	AGGREGATE BASE	INV	INVERT
AC	ASPHALT CONCRETE	IPS	IRON PIPE SIZE
AFF	ABOVE FINISH FLOOR	LF	LINEAL FEET
AL, ALUM	ALUMINUM	M	METER
APPROX	APPROXIMATE	MFR	MANUFACTURER
ARV	AIR RELIEF VALVE	MAX	MAXIMUM
ASPH	ASPHALT	MIN	MINIMUM
BC	BEGIN CURVE	MH	MANHOLE
B.C.	BACK OF CURB	MON	MONUMENT, MONITORING
BF	BLIND FLANGE	MOV	MOTOR OPERATED VALVE
BFV	BUTTERFLY VALVE	MSB	MAINTENANCE SERVICES BUILDING
B.O.	BLOW OFF	N	NORTH
BM	BENCH MARK	NIC	NOT IN CONTRACT
BW	BACKWASH	No., #	NUMBER
CB	CATCH BASIN	NTS	NOT TO SCALE
CL, CL	CENTER LINE	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CLSM	CONTROLLED LOW STRENGTH MATERIAL	OF	OVERFLOW
CMU	CONCRETE MASONRY UNIT	OH	OVERHEAD
CO	CLEAN OUT	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	PE	PLAIN END, POLYETHYLENE
CONT.	CONTINUOUS	PG	PRESSURE GAUGE
CPE	COPOLYESTER	PL, PL	PLATE, PROPERTY LINE
CV	CHECK VALVE	PRV	PRESSURE REDUCING VALVE
CY	CUBIC YARDS	PSF	POUNDS PER SQUARE FOOT
DEMO	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DI	DRAIN INLET	PSV	PRESSURE RELIEF VALVE
DIA, Ø	DIAMETER	PV	PLUG VALVE
DIP	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PVM/T	PAVEMENT
E	EAST	R	RADIUS
EA	EACH	REQ'D	REQUIRED
EF	EACH FACE	REV	REVISION
EL	ELEVATION	R/W	RIGHT OF WAY
ELEC	ELECTRIC	S	SEWER, SOUTH, SLOPE
EP	EDGE OF PAVEMENT	SCH	SCHEDULE
EQUIP	EQUIPMENT	SDMH	STORM DRAIN MANHOLE
EW	EACH WAY	SPD	SUMP PUMP DISCHARGE
(E), EX	EXISTING	SQ	SQUARE
EXP	EXPANSION	SS	SANITARY SEWER
FCO	FLOOR CLEANOUT	SSB	STAINLESS STEEL BOLT
FD	FLOOR DRAIN	SSMH	SANITARY SEWER MANHOLE
FF	FINISHED FLOOR	SST	STAINLESS STEEL
FG	FINISHED GRADE	STA	STATION
FH	FIRE HYDRANT	ST	STREET
FL, FL	FLOW LINE	STD	STANDARD
FLG	FLANGE	STL	STEEL
FO	FIBER OPTIC	SVC	SERVICE
FOC	FACE OF CURB	SW	SIDEWALK
FOT	FLAT ON TOP	T	TELEPHONE
FRP	FIBERGLASS REINFORCED PLASTIC	T&B	TOP & BOTTOM
FSW	FIRE SERVICE WATER	TC	TOP OF CURB
FT, ' "	FEET, FOOT	TOC	TOP OF CONCRETE
FUT, F, (F)	FUTURE	TOW	TOP OF WALL
FW	FINISHED WATER	TYP	TYPICAL
GA	GALVE	UG	UNDERGROUND
GALV	GALVANIZED	VAR	VARIOUS
GB	GRADE BREAK	VTR	VENT THROUGH ROOF
GS	GROUND SURFACE	W	WEST
GSP	GROUND SURFACE PROFILE	W/	WITH
GV	GATE VALVE	W/O	WITH OUT
HC	HANDICAPPED	WCT	WASTE CONTAINMENT TANK
HP	HIGH POINT IN PVMT, HIGH PRESSURE	WL	WATER LEVEL
HPI	HORIZONTAL POINT OF INFLECTION	WS	WATER SURFACE
HORZ	HORIZONTAL	WSE	WATER SURFACE ELEVATION
IE	INVERT ELEVATION	WTP	WATER TREATMENT PLANT
IN, "	INCH	WV	WATER VALVE
		WWF	WELDED WIRE FABRIC

SYMBOLS

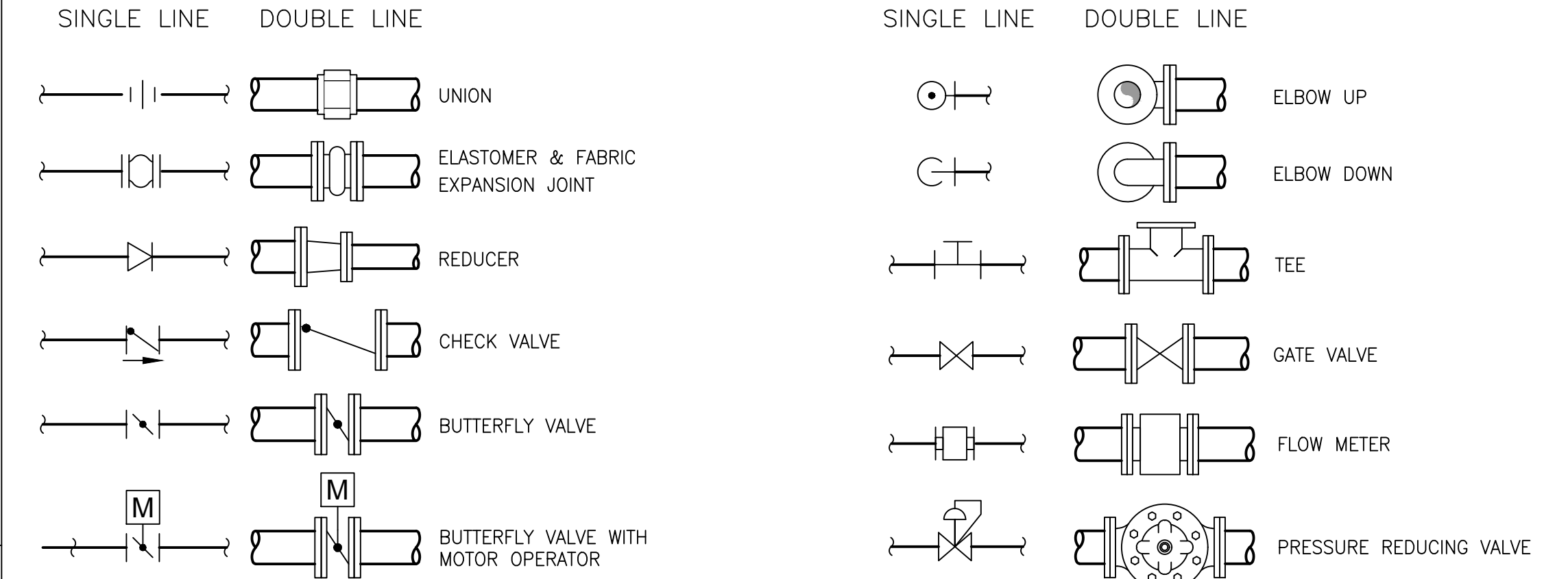
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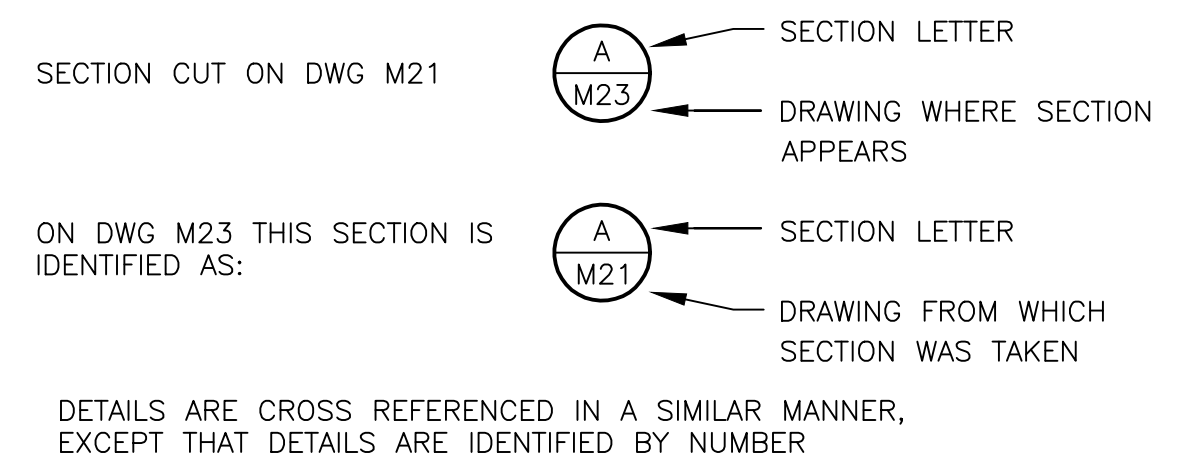
EXISTING



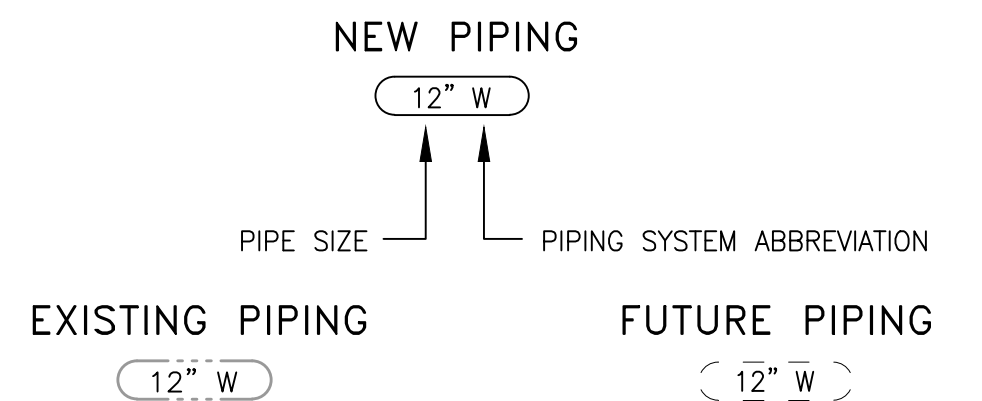
MECHANICAL PIPE, FITTINGS AND VALVES



SECTION & DETAIL DESIGNATIONS



PIPING DESIGNATIONS



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DATE: _____

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SCALE : NONE
DRAWN BY : SMB
DESIGNED BY : ANK
PROJ. MGR. : PLV

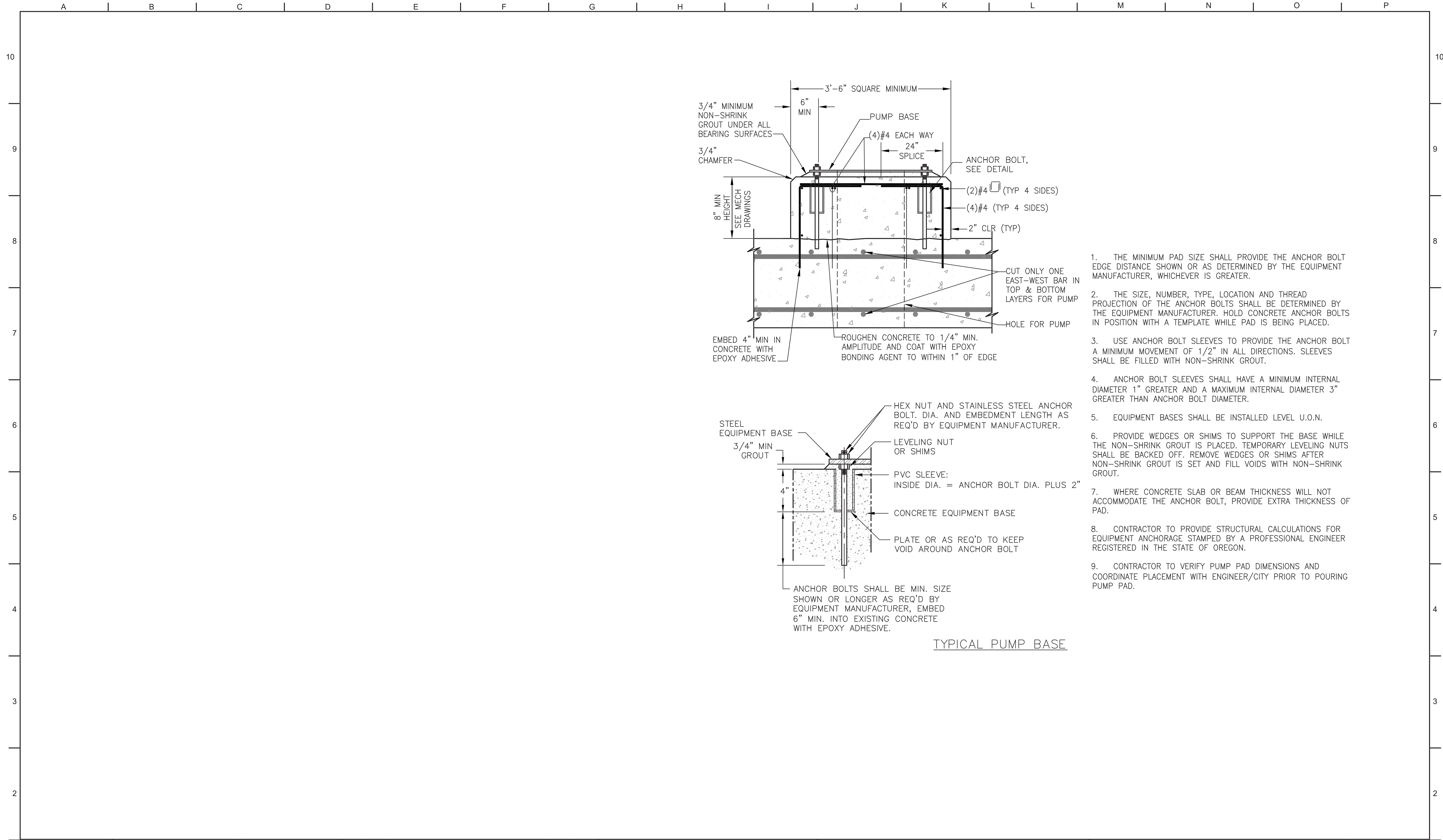
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SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS
GENERAL NOTES, ABBREVIATIONS,
SYMBOLS AND SITE PLAN

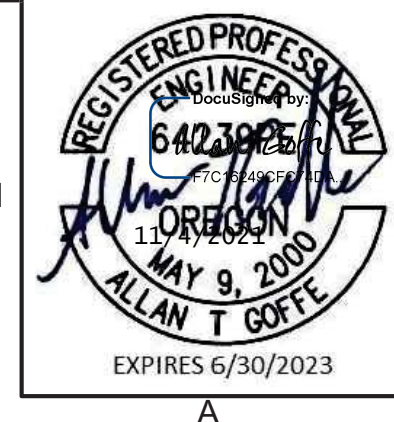
JOB NUMBER
936-50-20-03
DRAWING NUMBER
G002
SHEET NUMBER
2 OF **15**
REVISION

P:\Clients\936 City of Sweet Home\50-20-03 WTP Finish Water\CAD\Production\936-50-20-03-G002.dwg 11-03-21 12:55:09 PM sborber



1. THE MINIMUM PAD SIZE SHALL PROVIDE THE ANCHOR BOLT EDGE DISTANCE SHOWN OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER, WHICHEVER IS GREATER.
2. THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER. HOLD CONCRETE ANCHOR BOLTS IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED.
3. USE ANCHOR BOLT SLEEVES TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER.
5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL U.O.N.
6. PROVIDE WEDGES OR SHIMS TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. REMOVE WEDGES OR SHIMS AFTER NON-SHRINK GROUT IS SET AND FILL VOIDS WITH NON-SHRINK GROUT.
7. WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS OF PAD.
8. CONTRACTOR TO PROVIDE STRUCTURAL CALCULATIONS FOR EQUIPMENT ANCHORAGE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON.
9. CONTRACTOR TO VERIFY PUMP PAD DIMENSIONS AND COORDINATE PLACEMENT WITH ENGINEER/CITY PRIOR TO POURING PUMP PAD.

TYPICAL PUMP BASE



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DATE: _____

THIS LINE IS 1 INCH
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NOT SCALE ACCORDINGLY

SCALE : NO SCALE
DRAWN BY : ATG
DESIGNED BY : ATG
PROJ. MGR. : PLV

No.	ZONE	REVISIONS	BY	DATE



SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS

BW PUMP - STRUCTURAL DETAILS

JOB NUMBER 936-50-20-03
DRAWING NUMBER S601
SHEET NUMBER 6 OF 15
REVISION

Electrical Abbreviations, General Notes, & Symbol Legend

Abbreviations

A	AMPERE	MCA	MINIMUM CIRCUIT AMPACITY
AC	ALTERNATING CURRENT, AIR CONDITIONING UNIT	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MCP	MOTOR CIRCUIT PROTECTOR
AI	ANALOG INPUT	MDF	MAIN DISTRIBUTION FRAME
AiC	AVAILABLE INTERRUPTING CAPACITY	MHz	MEGAHERTZ
AF	AMPERE FRAME / AMPERE FUSED	MISC	MISCELLANEOUS
AFC	ABOVE FINISHED CEILING	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MOCO	MAXIMUM OVERCURRENT PROTECTION
AFG	ABOVE FINISHED GRADE		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N	NEUTRAL
AO	ANALOG OUTPUT	NAC	NOTIFICATION APPLIANCE CIRCUIT
ARMS	ARC FLASH REDUCTION MAINTENANCE SYSTEM	N/A	NOT APPLICABLE
AT	AMPERE TRIP	NC	NORMALLY CLOSED
AV	AUDIO / VIDEO	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
		NEX	REPLACE EXISTING WIRING DEVICE AND FACEPLATE WITH NEW.
BAS	BUILDING AUTOMATION SYSTEM	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
C	CONDUIT	OC	ON CENTER
CAT	CATEGORY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CB	CIRCUIT BREAKER	OFOI	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	∅	PHASE
CKT	CIRCUIT		
CPT	CONTROL POWER TRANSFORMER	PB	PULL BOX, PANIC BUTTON, PUSH BUTTON
CR	CONTROL RELAY	PE	PHOTO EYE
CU	COPPER	PNL	PANEL
		POE	POWER OVER ETHERNET
dB	DECIBAL	PTZ	PAN, TILT, ZOOM
DC	DIRECT CURRENT		
DI	DIGITAL INPUT	RF	RADIO FREQUENCY
DIM	DIMENSION	RFI	REQUEST FOR INFORMATION
DIV	DIVISION		
DO	DIGITAL OUTPUT	SLC	SIGNALING LINE CIRCUIT
DTL	DETAIL	SPD	SURGE PROTECTION DEVICE
DWG	DRAWING	STD	STANDARD
		SW	SWITCH
EIP	ETHERNET IP		
EL	ELEVATION	T/M	THERMAL MAGNETIC CIRCUIT BREAKER
EMT	ELECTRICAL METALLIC TUBING	TBD	TO BE DETERMINED
EOLR	END OF LINE RESISTOR	TV	TELEVISION / MONITOR OUTLET
		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FF	FINISH FLOOR		
FLA	FULL LOAD AMPERES	UH	UNIT HEATER
FT	FOOT, FEET	UG	UNDERGROUND
FBO	FURNISHED BY OTHERS	UL	UNDERWRITERS LABORATORIES
		UPS	UNINTERRUPTIBLE POWER SUPPLY
G, GND	GROUND	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	USB	UNIVERSAL SERIAL BUS
HH	HAND HOLE	V	VOLTS, VOLTAGE
HP	HORSEPOWER	VA	VOLT-AMPERE
		VFD	VARIABLE FREQUENCY DRIVE
ID	IDENTIFICATION		
IDC	INITIATING DEVICE CIRCUIT	W	WATT, WIRE
IDF	INTERMEDIATE DISTRIBUTION FRAME	WAN	WIDE AREA NETWORK
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	WAP	WIRELESS ACCESS POINT
IG	ISOLATED GROUND	WI-FI	WIRELESS FIDELITY
IT	INFORMATION TECHNOLOGY	W/	WITH
		W/O	WITHOUT
JB	JUNCTION BOX		
		XFMR	TRANSFORMER
KAIC	THOUSAND AMPS INTERRUPTING CURRENT		
KCMIL	THOUSAND CIRCULAR MILS	Y	WYE
KVA	KILOVOLT-AMPERE		
KW	KILOWATT		
		1P	ONE POLE
LAN	LOCAL AREA NETWORK	2P	TWO POLE
LED	LIGHT EMITTING DIODE	3P	THREE POLE
LS	LIMIT SWITCH	4P	FOUR POLE
LSI	ELECTRONIC TRIP UNIT ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP		
LSIG	ELECTRONIC TRIP UNIT WITH ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP, AND GROUND FAULT		
LV	LOW VOLTAGE		

General Electrical Notes

- ALL LIGHTING BRANCH CIRCUITS SHALL BE 2#10, 1#10G IN 3/4" CONDUIT, UON.
- ALL 20-AMP RECEPTACLE AND HARDWIRED BRANCH CIRCUITS SHALL BE 2#12, 1#12G IN 3/4" CONDUIT, UON.
- ALL EXIT SIGNS SHALL BE WIRED TO THE LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING.
- PROVIDE 0-10V DIMMING CONDUCTORS TO ALL LUMINAIRES WHICH ARE CONTROLLED BY 0-10V DIMMERS SHOWN ON THE DRAWINGS.

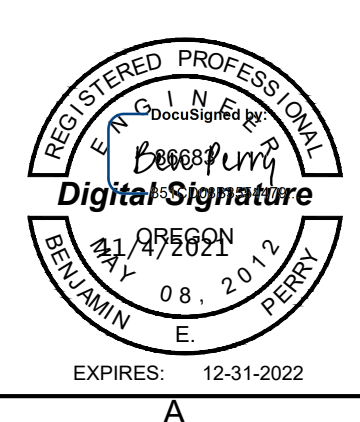
Annotation

- (N) INDICATES NEW EQUIPMENT.
- (E) INDICATES EXISTING EQUIPMENT TO REMAIN.
- (D) INDICATES EXISTING EQUIPMENT TO BE DEMOLISHED.
- (RR)/(RD) INDICATED EXISTING EQUIPMENT OR DEVICE TO BE REMOVED AND REINSTALLED.
- XXX CONDUIT & CONDUCTOR CALLOUT. REFER TO CONDUIT & CONDUCTOR SCHEDULE.
- XX KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
- XX KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
- XX KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
- XX MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- XX EX.XX DETAIL CALLOUT. REFER TO DETAIL AND SHEET AS INDICATED ON CALLOUT.
- XX'-XX" FIXTURE MOUNTING CALLOUT. HEIGHT ABOVE FINISHED FLOOR (A.F.F.)
- XXXXX EQUIPMENT CALLOUT. REFER TO NEMA CONNECTION SCHEDULE.
- SECTION CALLOUT. REFER TO SECTION AND SHEET AS INDICATED ON CALLOUT.
- EX.XX ELEVATION CALLOUT. REFER TO ELEVATION AND SHEET AS INDICATED ON CALLOUT.

EQUIPMENT	OWNER FURNISHED	INSTALLED BY OTHERS	CONTRACTOR INSTALLED
50A ACTIVE HARMONIC FILTER	X		X
50A ACTIVE HARMONIC FILTER CT'S	X		X
100A ACTIVE HARMONIC FILTER	X		X
100A ACTIVE HARMONIC FILTER CT'S	X		X
FWP401 VFD	X	X	
FWP402 VFD	X	X	
FWP403 VFD	X	X	
BACKWASH PUMP SOFT START	X	X	
BACKWASH PUMP MCC SECTION	X		X

SEISMIC BRACING - REFER TO SECTION 16070 FOR REQUIREMENTS
 50A ACTIVE HARMONIC FILTER
 100A ACTIVE HARMONIC FILTER
 BACKWASH PUMP MCC SECTION

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QC REVIEW: _____
 DATE: _____

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SCALE : _____
 DRAWN BY : EJC
 DESIGNED BY : MH
 PROJ. MGR. : _____

No.	ZONE	REVISIONS	BY	DATE

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SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS

ELECTRICAL ABBREVIATIONS,
 NOTES, AND LEGEND

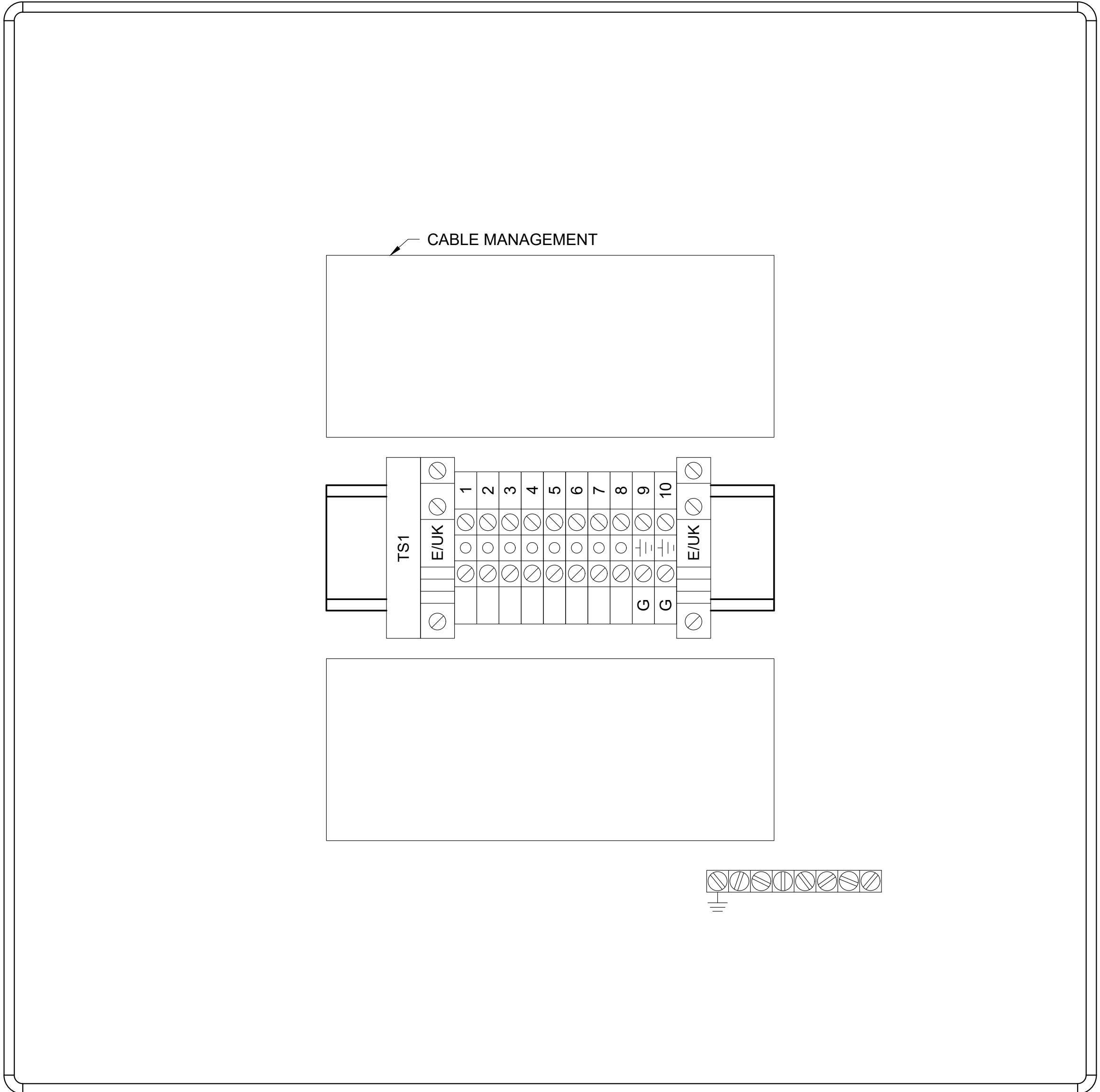
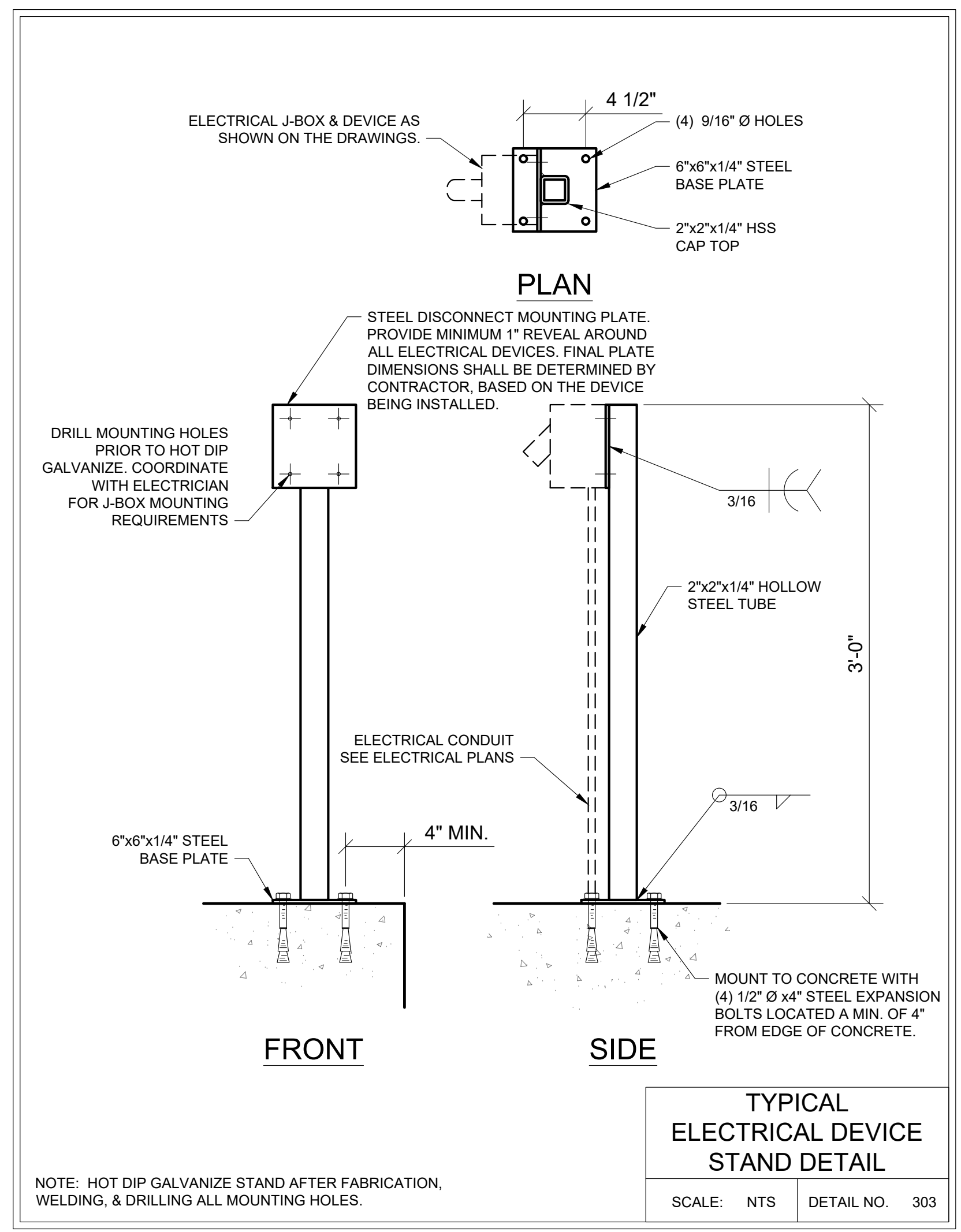
JOB NUMBER
936-50-20-03

DRAWING NUMBER
E001

SHEET NUMBER
7 OF 15

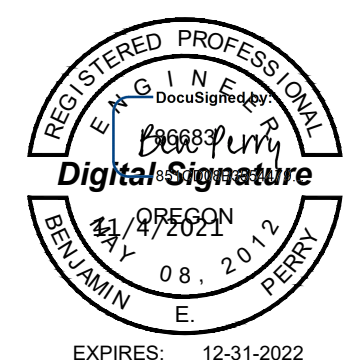
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1 TERMINAL BOX
SCALE: NTS

TYPICAL ELECTRICAL DEVICE STAND DETAIL
SCALE: NTS DETAIL NO. 303



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SCALE: _____	DESIGNED BY: <u>EJC</u>
DRAWN BY: _____	PROJ. MGR.: _____
DESIGNED BY: <u>MH</u>	

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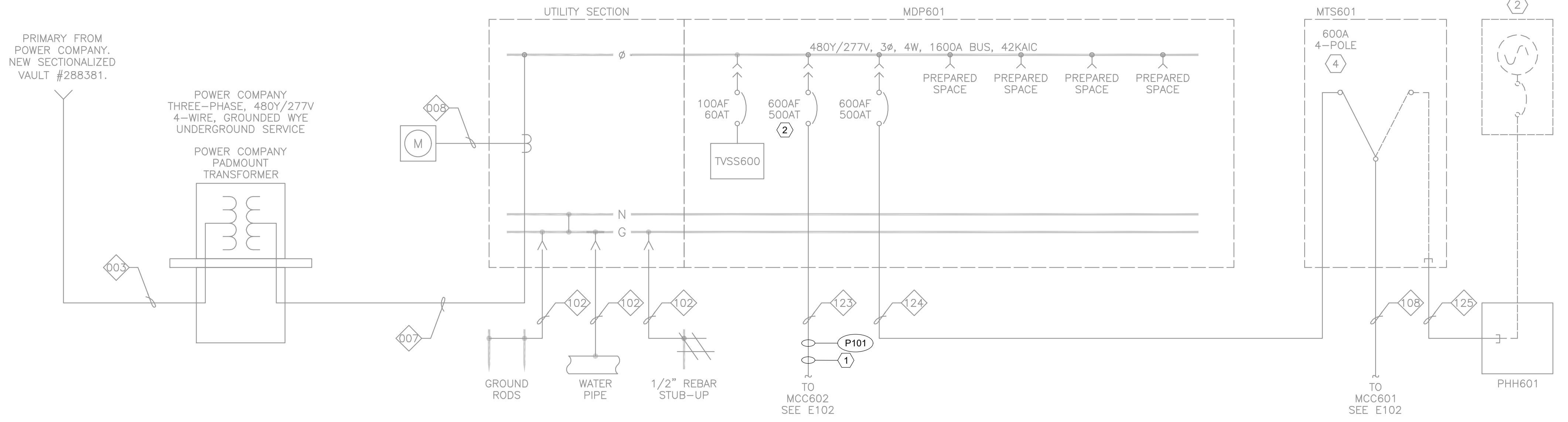
SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS

ELECTRICAL DETAILS

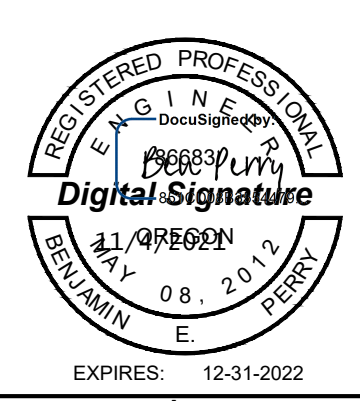
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DRAWING NUMBER E003
SHEET NUMBER 9 OF 15
REVISION

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- SHEET KEY NOTES**
- REMOVE EXISTING CONDUCTORS. MANDREL EXISTING CONDUITS PRIOR TO INSTALLING NEW CONDUCTORS AS SHOWN.
 - REMOVE EXISTING 500A TRIP PLUG. PROVIDE NEW 600A TRIP PLUG. COORDINATE EXACT PLUG WITH MANUFACTURER PRIOR TO ORDERING EQUIPMENT.



TREATMENT BUILDING ONE-LINE DIAGRAM



QC REVIEW: _____
DATE: _____

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AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE : _____
DRAWN BY : **EJC**
DESIGNED BY : **MH**
PROJ. MGR. : _____

No.	ZONE	REVISIONS	BY	DATE

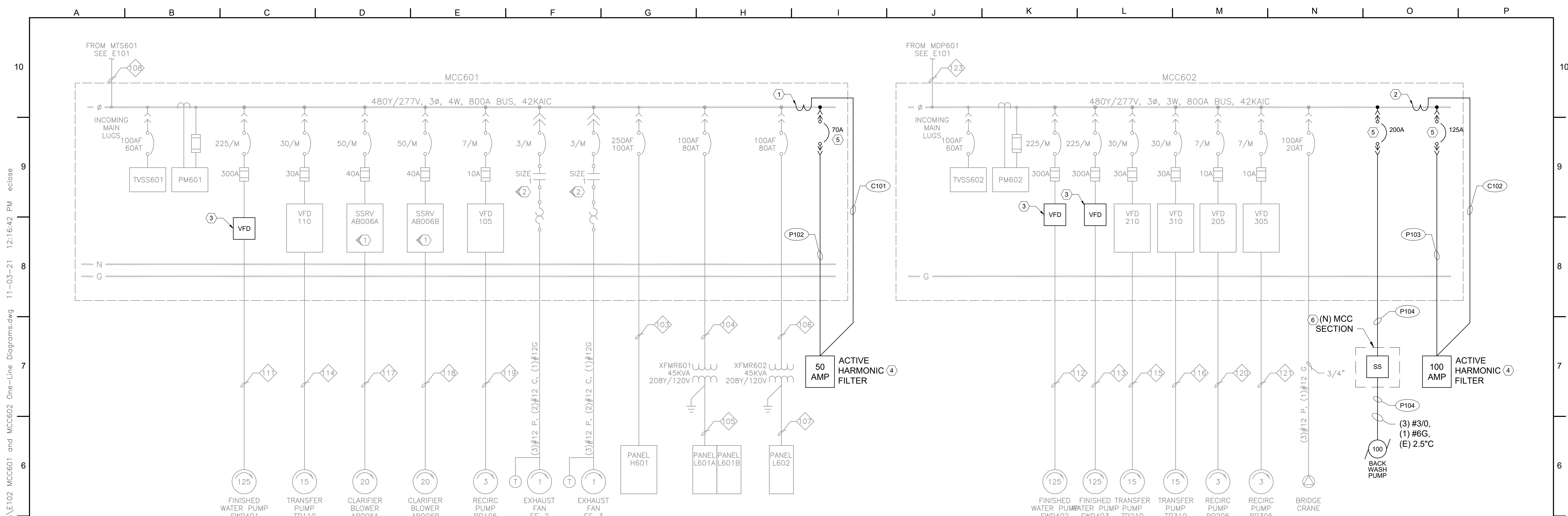
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SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS

TREATMENT BUILDING ONE-LINE
DIAGRAM

JOB NUMBER 936-50-20-03
DRAWING NUMBER E101
SHEET NUMBER 10 OF 15
REVISION



MCC601 ONE-LINE DIAGRAM

MCC602 ONE-LINE DIAGRAM

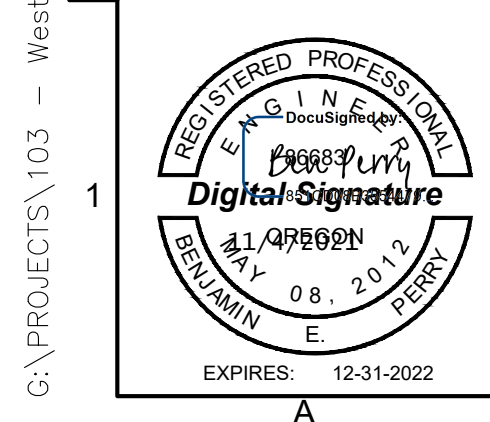
MCC601 LOAD SUMMARY

LARGEST MOTOR LOAD	TAG	HP	FLA	AMPS	KVA
Finished Water Pump No.1	FWP401	125 HP	156.0 x 1.25	195.0	162.1
OTHER MOTOR LOADS					
Transfer Pump No.1	TP110	15 HP	21.0 x 1	21.0	17.5
Clarifier Blower No.1	AB006C	20 HP	27.0 x 1	27.0	22.4
Clarifier Blower No.2	AB006D	20 HP	27.0 x 1	27.0	22.4
Recirc Pump No.1	RP105	3 HP	4.8 x 1	4.8	4.0
Compressor No.1		1.5 HP	3.0 x 1	3.0	2.5
Compressor No.2		1.5 HP	3.0 x 1	3.0	2.5
Exhaust Fan No.1	EF-2	1 HP	2.1 x 1	2.1	1.7
Exhaust Fan No.2	EF-3	1 HP	2.1 x 1	2.1	1.7
Overhead Crane		3 HP	4.8 x 1	4.8	4.0
TOTAL MOTOR LOAD:		191 HP	251 A	290 A	241
NON-MOTOR CONTINUOUS LOADS					
Transformer	XFMR601	45 KVA	54.1 x 1.25	67.7	56.3
Transformer	XFMR602	45 KVA	54.1 x 1.25	67.7	56.3
Water Heater	WH-1	4.5	5.4 x 1.25	6.8	5.6
Chlorine Generation System	CL001	24.9 KVA	30.0 x 1.25	37.5	31.2
Chlorine Gen. Water Heater	CL005	6 KVA	7.2 x 1.25	9.0	7.5
Lighting		12 KVA	14.4 x 1.25	18.0	15.0
Subtotal Continuous Load		137 KVA	165 A	207 A	172
TOTAL CONNECTED LOAD:			416 A	496 A	413

MCC602 LOAD SUMMARY

LARGEST MOTOR LOAD	TAG	HP	FLA	AMPS	KVA
Finished Water Pump No.2	FWP402	125 HP	156.0 x 1.25	195.0	162.1
OTHER MOTOR LOADS					
Finished Water Pump No.3	FWP403	125 HP	156.0 x 1	156.0	129.7
Transfer Pump No.2	TP210	15 HP	21.0 x 1	21.0	17.5
Transfer Pump No.3	TP310	15 HP	21.0 x 1	21.0	17.5
Recirc Pump No.2	RP205	3 HP	4.8 x 1	4.8	4.0
Recirc Pump No.3	RP305	3 HP	4.8 x 1	4.8	4.0
Overhead Crane		3 HP	4.8 x 1	4.8	4.0
TOTAL CONNECTED LOAD:			368 A	407 A	339
(N) 100HP BACKWASH PUMP				120A	103KVA
TOTAL NEW CONNECTED LOAD				531A	442KVA

- | GENERAL SHEET NOTES | SHEET KEY NOTES |
|---|--|
| <ol style="list-style-type: none"> THE AUTOMATIC GROUP (TAG) IS THE INTEGRATOR OF RECORD. CONTACT IS GARY JENKS, PHONE # (541) 359-3755. | <ol style="list-style-type: none"> ACTIVE HARMONIC FILTERS SHALL BE PROVIDED BY INTEGRATOR OF RECORD CONTRACTOR TO INSTALL AND MOUNT ACTIVE HARMONIC FILTERS. PROVIDE ALL NEW CONDUCTORS AND CONDUITS AS SHOWN FOR A COMPLETE SYSTEM. COORDINATE WORK WITH INTEGRATOR OF RECORD. |
| <ol style="list-style-type: none"> CT'S PROVIDED BY INTEGRATOR OF RECORD. INSTALL THREE ACTIVE HARMONIC FILTER CT'S ON THE MAIN BUS OF MCC 601, ONE PER PHASE BUS. PROVIDE CONDUIT AND TWISTED SHIELDED PAIR FROM CT'S BACK TO ACTIVE HARMONIC FILTER. CT'S PROVIDED BY INTEGRATOR OF RECORD. INSTALL THREE ACTIVE HARMONIC FILTER CT'S ON THE MAIN BUS OF MCC602, ONE PER PHASE BUS. PROVIDE CONDUIT AND TWISTED SHIELDED PAIR FROM CT'S BACK TO ACTIVE HARMONIC FILTER. EXISTING SOFT STARTER SHALL BE REPLACED WITH NEW VFD BY INTEGRATOR OF RECORD. DISCONNECT AND RECONNECT EXISTING CONDUCTORS AS REQUIRED. COORDINATE WORK WITH INTEGRATOR OF RECORD. | <ol style="list-style-type: none"> CIRCUIT BREAKERS SHALL BE PROVIDED AND INSTALLED BY INTEGRATOR OF RECORD. PROVIDE ALL NEW CONDUCTORS AND CONDUIT AS SHOWN FOR A COMPLETE SYSTEM. COORDINATE WORK WITH INTEGRATOR OF RECORD. SOFT STARTER AND NEW STAND-ALONE MCC SECTION SHALL BE PROVIDED BY INTEGRATOR OF RECORD. CONTRACTOR SHALL INSTALL NEW MCC SECTION. PROVIDE ALL CONDUCTORS AND CONDUIT AS SHOWN FOR A COMPLETE SYSTEM. COORDINATE WORK WITH INTEGRATOR OF RECORD. |



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DESIGNED BY : **MH**
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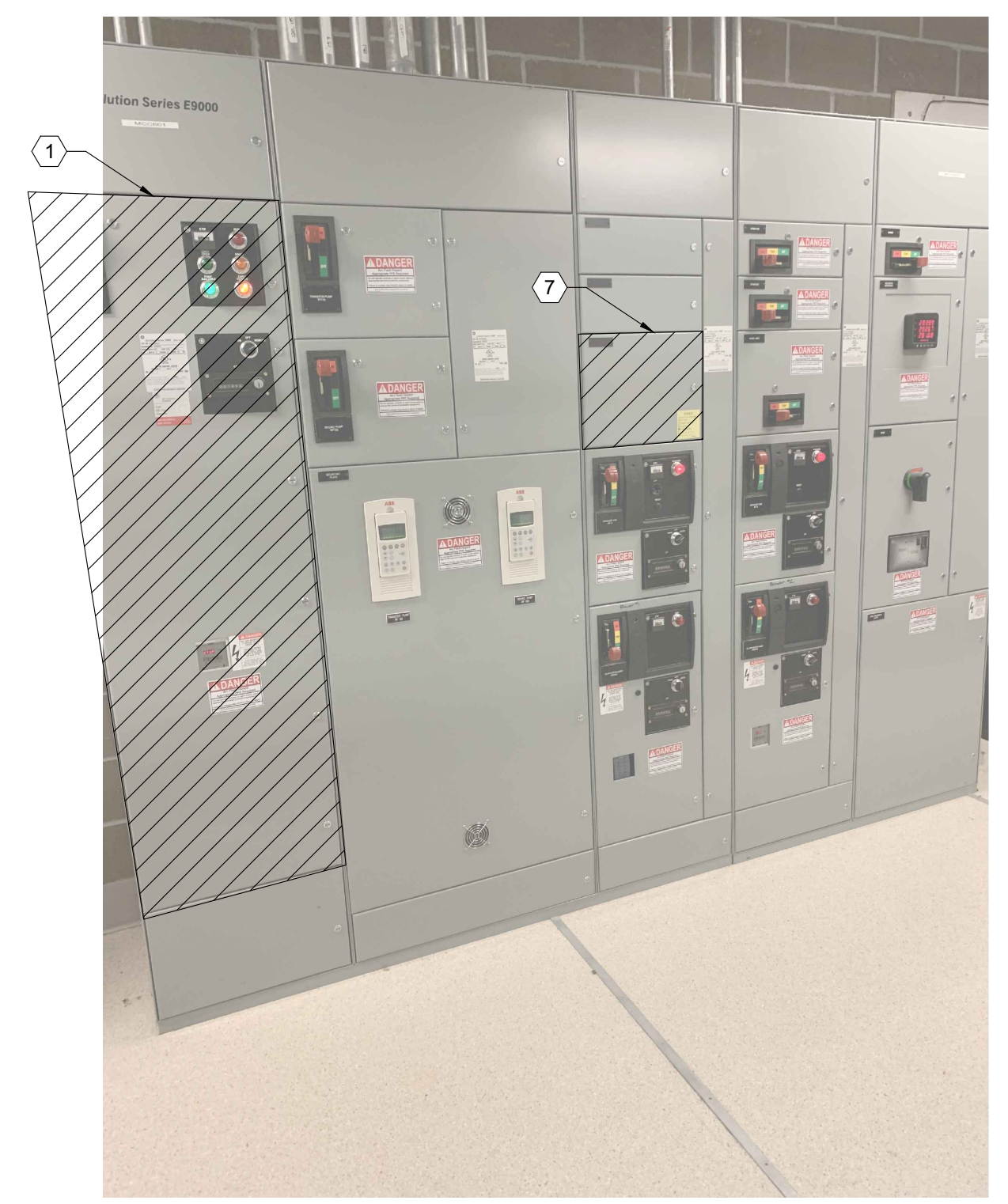
SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS

MCC601 AND MCC602 ONE-LINE
DIAGRAMS

JOB NUMBER 936-50-20-03
DRAWING NUMBER E102
SHEET NUMBER 11 OF 15
REVISION

G:\PROJECTS\103 - West Yost Associates\1032007 - Sweet Home WTP\Design\2 - Drawings\Current\Sweet Home WTP\Sheets\E102 MCC601 and MCC602 One-Line Diagrams.dwg 11-03-21 12:16:42 PM eclose

G:\PROJECTS\103 - West Yost Associates\1032007 - Sweet Home WTP\Design\2) Drawings\Current\Sweet Home WTP\Elevations & Electrical Photos.dwg 11-03-21 12:17:10 PM eclose



1 MCC 601 ELEVATION
SCALE: NTS



2 MCC 602 ELEVATION
SCALE: NTS



3 NEW MCC ELEVATION
SCALE: NTS



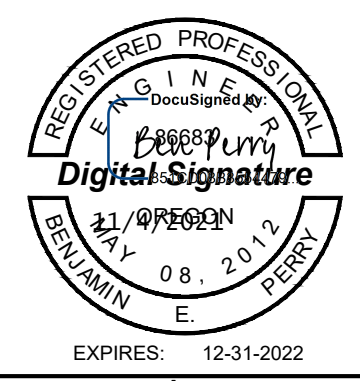
4 SPARE CONDUITS
SCALE: NTS

GENERAL SHEET NOTES

1. THE AUTOMATION GROUP (TAG) IS THE INTEGRATOR OF RECORD. CONTACT IS GARY JENKS, PHONE # (541) 359-3755.

SHEET KEY NOTES

1. FINISHED WATER PUMP FWP401 BUCKET. DISCONNECT EXISTING POWER CONDUCTORS FROM PUMP TO EXISTING SOFT STARTER. RECONNECT POWER CONDUCTORS TO NEW VFD. EXISTING SOFT STARTER SHALL BE REMOVED BY INTEGRATOR OF RECORD. NEW VFD SHALL BE PROVIDED AND INSTALLED BY INTEGRATOR OF RECORD. SEE SHEET E102 FOR ADDITIONAL INFORMATION.
2. FINISHED WATER PUMP FWP402 BUCKET. DISCONNECT EXISTING POWER CONDUCTORS FROM PUMP TO EXISTING SOFT STARTER. RECONNECT POWER CONDUCTORS TO NEW VFD. EXISTING SOFT STARTER SHALL BE REMOVED BY INTEGRATOR OF RECORD. NEW VFD SHALL BE PROVIDED AND INSTALLED BY INTEGRATOR OF RECORD. SEE SHEET E102 FOR ADDITIONAL INFORMATION.
3. FINISHED WATER PUMP FWP403 BUCKET. DISCONNECT EXISTING POWER CONDUCTORS FROM PUMP TO EXISTING SOFT STARTER. RECONNECT POWER CONDUCTORS TO NEW VFD. EXISTING SOFT STARTER SHALL BE REMOVED BY INTEGRATOR OF RECORD. NEW VFD SHALL BE PROVIDED AND INSTALLED BY INTEGRATOR OF RECORD. SEE SHEET E102 FOR ADDITIONAL INFORMATION.
4. NEW MCC SECTION AND SOFT STARTER SHALL BE PROVIDED BY INTEGRATOR OF RECORD. CONTRACTOR SHALL INSTALL NEW MCC SECTION. CONNECT NEW POWER CONDUCTORS TO SOFT START AS SHOWN SHEET E102.
5. UTILIZE EXISTING 2" CONDUIT FOR POWER TO NEW BACKWASH PUMP. SEE SHEET E601 FOR ADDITIONAL INFORMATION.
6. UTILIZE EXISTING 2" CONDUIT FOR CONTROL CABLES TO NEW BACK WASH PUMP. SEE SHEET E601 FOR ADDITIONAL INFORMATION.
7. NEW CIRCUIT BREAKER SHALL BE PROVIDED AND INSTALLED BY INTEGRATOR OF RECORD. CONNECT NEW POWER CONDUCTORS TO CIRCUIT BREAKER AS SHOWN ON E101.
8. EXISTING MCC BUCKET SHALL BE REARRANGED FOR TWIN CIRCUIT BREAKERS BY INTEGRATOR OF RECORD. DISCONNECT AND RECONNECT EXISTING CONDUCTORS TO EXISTING CIRCUIT BREAKER. CONNECT NEW POWER CONDUCTORS TO NEW CIRCUIT BREAKER AS SHOWN E101.



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SWEET HOME
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SYSTEMS IMPROVEMENTS

MCC ELEVATIONS & ELECTRICAL
PHOTOS

JOB NUMBER 936-50-20-03
DRAWING NUMBER E103
SHEET NUMBER 12 OF 15
REVISION

G:\PROJECTS\103 - West Yost Associates\1032007 - Sweet Home WTP\Design\2) Drawings\Current\Sweet Home WTP\Sheets\E106 Conduit and Panel Schedules.dwg 11-03-21 12:17:35 PM eclose

PANEL NAME: L602	LOCATION: XXX
VOLT/PHASE: 208/120V, 3Ø	FED FROM: MCC 601 VIA XFMR 602
NUM. POLES: 42	BREAKER MOUNTING: BOLTED
AIC RATING: 42,000	MAIN BREAKER AMPS: 175
NOTES: EXISTING PANEL	BUS RATING AMPS: 225
REF. KEY NOTE #:	SPD: NO

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES		
	CU-1		-			25	1	2	30	-				SPARE			
							3	4									
	SPARE					30	5	6									
	CU-2					40	9	10	20					SPARE			
							11	12									
	RCPT: P201					20	13	14	20					EW-2			
	RCPT: P202					20	15	16	20					CP101			
	RCPT: ACH201					20	17	18	20					CP210			
	POLYMER MIX UNIT					20	19	20	20	500				(N) CONTROL PANEL	[1]		
	RCPT: CL201					20	21	22	20		500			(N) MOTORIZED VALVE	[1]		
	RCPT: SA201					20	23	24	20					SPARE			
	RCPT: F201					20	25	26	20					SPARE			
	RCPT: PROCESS AREA					20	27	28	20					EW-1			
	RCPT: PROCESS AREA					20	29	30	20					UH-1, 2, 4, 6 & 10			
	RCPT: FILTER 2					20	31	32	20					F-2			
	SPARE					20	33	34	20					FC-1			
	SPARE					20	35	36									
	RCPT: PROCESS AREA					20	37	38	20					EF-1			
	RCPT: PROCESS AREA					20	39	40	20					RCPT: SCM AIT012 / 022			
	RCPT: CHEM AREA					20	41	42	20					RCPT: CHEM AREA			

POWER CONDUIT / CONDUCTOR SCHEDULE											
CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	NOTES
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
P101	2	3.0 INCH	3 - #350	1 - #1/0	1 - #1	-	-	MDP601	MCC602	UTILIZE EXISTING CONDUITS. THERE ARE THREE CONDUITS. ONE SHALL REMAIN SPARE.	-
P102	1	1.25 INCH	3 - #4	-	1 - #8	-	-	MCC601	50A AHF	-	-
P103	1	1.25 INCH	3 - #2	-	1 - #6	-	-	MCC602	100A AHF	-	-
P104	1	2.0 INCH	3 - #2/0	-	1 - #6	-	-	MCC602	(N) BACKWASH PUMP	-	-
P105	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	PANEL L602	(N) CONTROL PANEL	-	-
P106	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	PANEL L602	(N) MOTORIZED VALVE	-	-
PXXX	-	-	-	-	-	-	-	-	-	-	-
PXXX	-	-	-	-	-	-	-	-	-	-	-

CONTROL CONDUIT / CONDUCTOR SCHEDULE											
CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	NOTES
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
C101	1	1.0 INCH	-	-	-	3 - TSP	-	MCC601 CTS	50A AHF	-	-
C102	1	1.0 INCH	-	-	-	3 - TSP	-	MCC602 CTS	100A AHF	-	-
C103	1	2.5 INCH	-	-	-	3 - CAT6	-	INSTRUMENTATION JUNCTION BOX	(N) CONTROL PANEL	MOTORIZED VALVE AND TWO PRESSURE TRANSMITTERS	-
C104	1	1.0 INCH	-	-	-	1 - CAT6	-	MCC601 FWP601 VFD	(N) CONTROL PANEL	NEW CONDUIT TO CABLE TRAY. UTILIZE CABLE TRAY FOR CAT6 HOMERUN.	-
C105	1	1.0 INCH	-	-	-	3 - CAT6	-	MCC602 FWP402 VFD MCC602 FWP403 VFD (N) BACKWASH PUMP SS	(N) CONTROL PANEL	NEW CONDUIT TO CABLE TRAY. UTILIZE CABLE TRAY FOR CAT6 HOMERUN.	-
C106	1	0.75 INCH	-	-	-	1 - CAT6	-	PRESSURE TRANSMITTER	(N) INSTRUMENTATION JUNCTION BOX	-	-
C107	1	0.75 INCH	-	-	-	1 - CAT6	-	PRESSURE TRANSMITTER	(N) INSTRUMENTATION JUNCTION BOX	-	-
C108	1	0.75 INCH	-	-	-	1 - CAT6	-	INSTRUMENTATION JUNCTION BOX	MOTORIZED VALVE	-	-
C109	-	-	-	-	-	-	-	-	-	-	-
C110	-	-	-	-	-	-	-	-	-	-	-
C111	-	-	-	-	-	-	-	-	-	-	-
C112	-	-	-	-	-	-	-	-	-	-	-
C113	-	-	-	-	-	-	-	-	-	-	-
C114	-	-	-	-	-	-	-	-	-	-	-
C115	-	-	-	-	-	-	-	-	-	-	-
C116	-	-	-	-	-	-	-	-	-	-	-

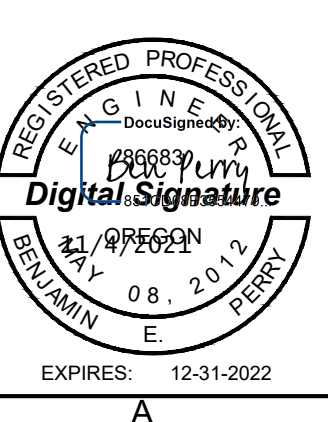
TOTAL LOAD:	0	0	0	TOTAL LOAD:	500	500	0
COMBINED LOAD:	500	500	0	CONNECTED LOAD:	1,000	DEMAND LOAD:	0
						DEMAND AMPS:	0

Load Type Key	Demand Factor	Connected Load	Demand Load
R General Purpose Receptacle	100% First 10kVA, 50% thereafter	0	0
L Lighting	125% Load	0	0
M1 Largest Motor	125% Load	0	0
M Motor	100% Load	0	0
A Appliance	100% Load	0	0
H HVAC	100% Load	0	0
K Kitchen	65% Load	0	0
E Equipment	100% Load	0	0
T Transformer	100% Load	0	0
W Welder	100% Load	0	0
RV Recreational Vehicle	XX% Load	0	0

6 - Units of Equipment - See NEC Table 220.56

XX - RV Sites - See NEC Table 551.71 (A)

NOTES: [1] CONNECT TO EXISTING SPARE 20A, 120V, 1-PHASE CIRCUIT BREAKER FOR NEW LOAD AS SHOWN.



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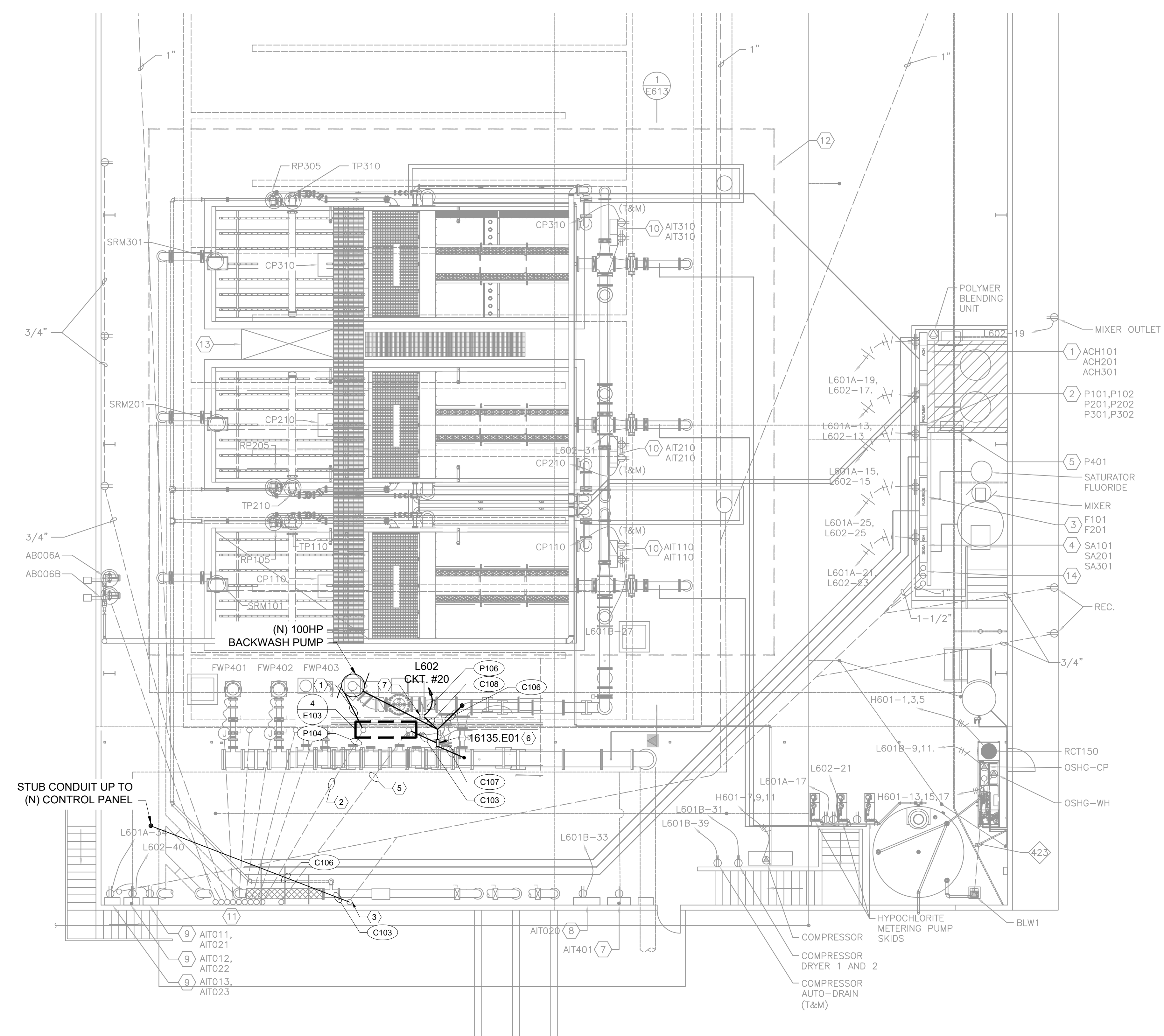
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SWEET HOME
FINISHED WATER AND BACKWASH PUMPING
SYSTEMS IMPROVEMENTS
CONDUIT AND PANEL SCHEDULES

JOB NUMBER
936-50-20-03
DRAWING NUMBER
E106
SHEET NUMBER
13 OF **15**
REVISION

G:\PROJECTS\103 - West Yost Associates\1032007 - Sweet Home WTP\Design\2) Drawings\Current\Sweet Home WTP\1032007-E601 Process Power Plan - First Floor.dwg 11-03-21 12:18:05 PM eclose

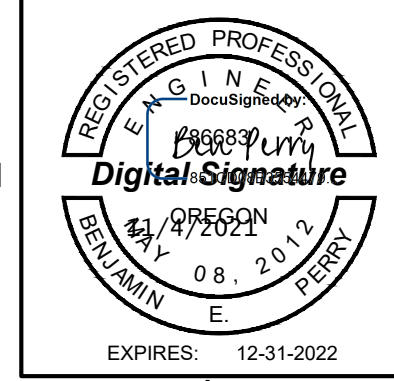


- REFERENCE KEY NOTES**
- DIVISION 16
- 16135.E01 - GENERAL ENCLOSURES
- SHEET KEY NOTES**
1. EXTEND 2.5" CONDUIT FROM (E) SPARE CONDUIT TO MOTOR CONNECTION. PROVIDE CONDUCTORS AS SHOWN ON ONE-LINE.
 2. UTILIZE (E) SPARE 2.5" CONDUIT FOR NEW CONDUCTORS FROM SOFT STARTER IN MCC602 TO (N) BACKWASH PUMP.
 3. INTERCEPT (E) SPARE 2.5" CONDUIT AND EXTEND IT ALONG THE UNDERSIDE OF THE ABOVE MEZZANINE TO THE LOCATION OF (N) CONTROL PANEL.
 4. STUB (N) CONDUIT UP TO (N) CONTROL PANEL LOCATION.
 5. PROVIDE (1) CAT6 CABLE FROM (N) PRV TO (N) CONTROL PANEL. CAT6 CABLE SHALL PASS THROUGH (N) JUNCTION BOX AS SHOWN. CABLE SHALL NOT BE TERMINATED IN JUNCTION BOX.
 6. PROVIDE INSTRUMENTATION JUNCTION BOX WITH TERMINAL STRIP. MOUNT JUNCTION BOX TO COLUMN. EXTEND (E) CONDUIT TO JUNCTION BOX LOCATION. PROVIDE (N) 1" CONDUIT FROM JUNCTION BOX TO (N) PRV.
 7. PROVIDE 120V CIRCUIT FROM (E) LP602 CIRCUIT 22 TO (N) MOTORIZED VALVE. UTILIZE (E) SPARE 20A, 1-POLE CIRCUIT BREAKER.

STUB CONDUIT UP TO (N) CONTROL PANEL

(N) 100HP BACKWASH PUMP

L602 CKT. #20



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SYSTEMS IMPROVEMENTS

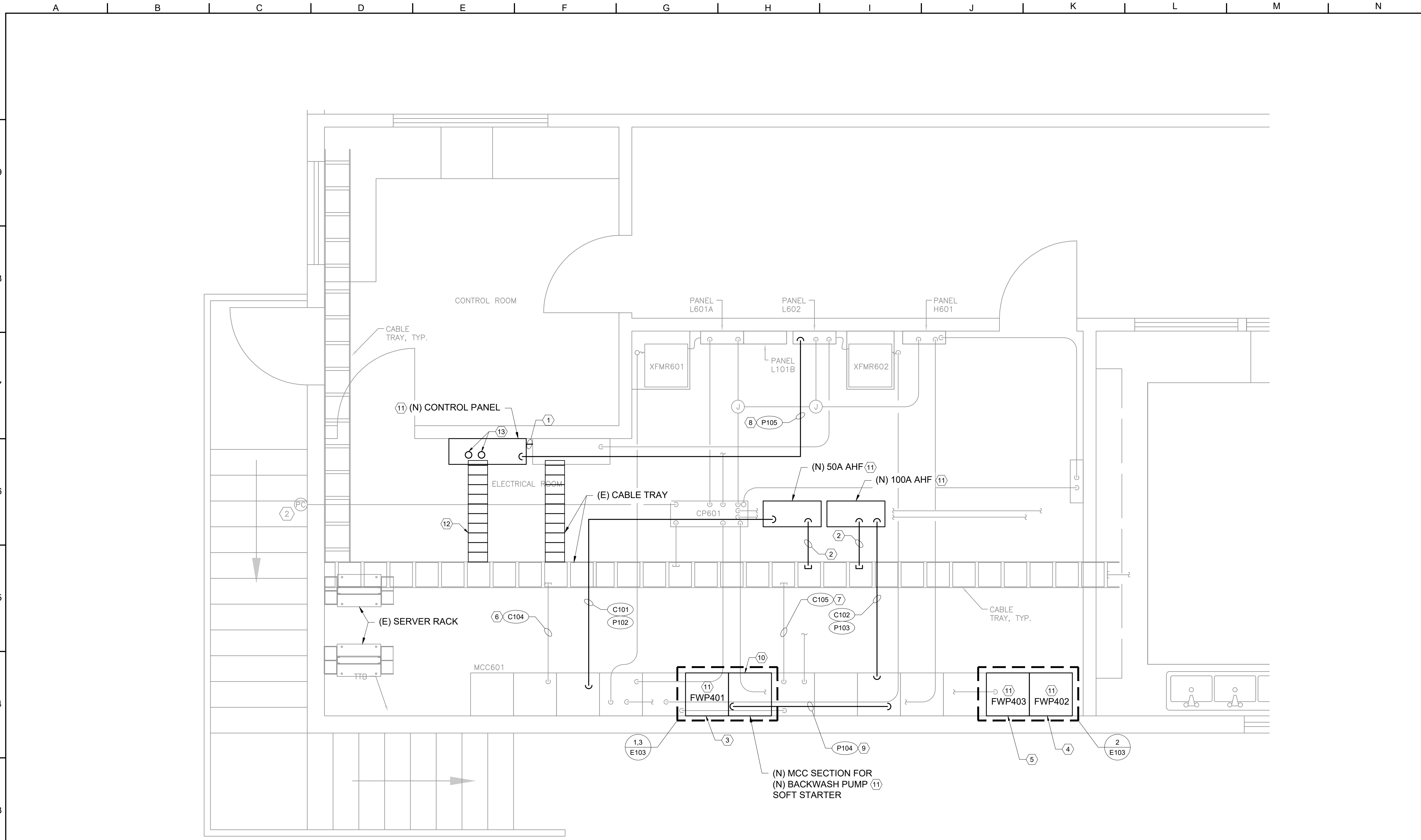
PROCESS POWER PLAN - FIRST FLOOR

JOB NUMBER
936-50-20-03

DRAWING NUMBER
E601

SHEET NUMBER
14 OF 15

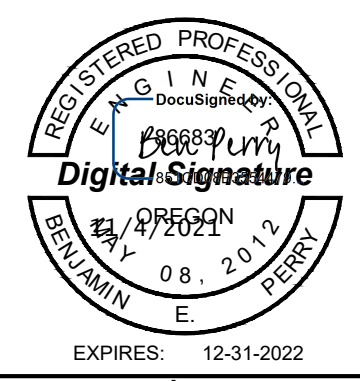
REVISION



**1 SECOND FLOOR
PROCESS POWER AND SIGNAL PLAN**
SCALE: NTS

SHEET KEY NOTES

1. PROVIDE (4) 2" CONDUIT NIPPLES BETWEEN (E) CP101 AND (N) CONTROL PANEL AS SHOWN.
2. PROVIDE (1) 1" CONDUIT FROM AHF STUBBED OUT TO (E) CABLE TRAY. PROVIDE (1) CAT6 CABLE FROM AHF TO (N) CONTROL PANEL.
3. SEE E102 AND E103 FOR INFORMATION ON SCOPE OF WORK FOR STARTER FWP401 IN MCC601.
4. SEE E102 AND E103 FOR INFORMATION ON SCOPE OF WORK FOR STARTER FWP402 IN MCC602.
5. SEE E102 AND E103 FOR INFORMATION ON SCOPE OF WORK FOR STARTER FWP403 IN MCC602.
6. PROVIDE (1) CAT6 CABLE FROM FWP01 VFD TO (N) CONTROL PANEL. UTILIZE (E) CONDUIT FROM MCC601 TO (E) CABLE TRAY AS SHOWN. ROUTE CAT6 CABLES THROUGH (E) CABLE TRAY TO (E) CP-101 AND THROUGH THE CONDUIT NIPPLES TO (N) CONTROL PANEL.
7. PROVIDE (1) CAT6 CABLE FROM FWP402 VFD, (1) CAT6 CABLE FROM FWP403 VFD, (1) CAT6 CABLE FROM BACKWASH PUMP SOFT START, ALL THREE TO THE (N) CONTROL PANEL. UTILIZE (E) CONDUIT PATHWAY FROM MCC602 TO (E) CABLE TRAY AS SHOWN. ROUTE CAT6 CABLES THROUGH (E) CABLE TRAY TO (E) CP-101 AND THROUGH THE CONDUIT NIPPLE TO (N) CONTROL PANEL.
8. PROVIDE 120V CIRCUIT FROM (E) LP602 CIRCUIT 20 TO (N) CONTROL PANEL. UTILIZE (E) SPARE 20A, 1-POLE CIRCUIT BREAKER.
9. PROVIDE CABLING FROM CIRCUIT BREAKER IN MCC602 TO (N) BACKWASH PUMP SOFT START MCC SECTION. INTENT IS TO RUN CABLING INSIDE (E) MCC602 CABLE THROUGH TO (N) MCC SECTION. SEE E102 FOR MORE INFORMATION.
10. PROVIDE (1) CAT6 CABLE FROM (N) BACKWASH PUMP SOFT STARTER TO THE (N) CONTROL PANEL. TUILIZE (E) WIRING TROUGH IN (E) MCC602 AND (E) CONDUIT PATHWAY FROM MCC602 TO (E) CABLE TRAY AS SHOWN. ROUTE CAT6 CABLES THROUGH (E) CABLE TRAY TO (E) CP-101 AND THROUGH THE CONDUIT NIPPLE TO (N) CONTROL PANEL.
11. EQUIPMENT PROVIDED BY INTEGRATOR OF RECORD, CONTRACTOR TO INSTALL. SEE E102 FOR ADDITIONAL INFORMATION.
12. PROVIDE NEW WIRE BASKET CABLE TRAY FROM EXISTING CABLE TRAY TO NEW CONTROL PANEL. MATCH WIDTH, HEIGHT, AND TYPE OF EXISTING CABLE TRAY. PROVIDE ALL ACCESSORIES TO CONNECT TO EXISTING TRAY. CONNECT INTO AND EXTEND EXISTING CABLE TRAY GROUNDING SYSTEM, MATCH CONDUCTOR SIZE.
13. PROVIDE (3) 2" EMT CONDUITS FORM (N) CONTROL PANEL TO (N) CABLE TRAY. PROVIDE GROUND BUSHINGS CONNECT TO GROUNDING SYSTEM ON TRAY.



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**SWEET HOME
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SYSTEMS IMPROVEMENTS**

PROCESS POWER AND SIGNAL PLAN
- SECOND FLOOR

JOB NUMBER 936-50-20-03
DRAWING NUMBER E602
SHEET NUMBER 15 OF 15
REVISION