

DRAWING: \$FILES

PLOTTED ON: \$DATES

PLOTTED BY: \$USERNAME\$

PLOTTED FROM: \$COMPUTERNAME\$

LUMINAIRE SCHEDULE												
TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP	RATING	DRIVER/POWER SUPPLY	LAMP(S)	INPUT WATTS	MFG/CATALOG #	NOTES
A	LED LED HIGH BAY	ALUMINUM	ACRYLIC	SUSPENDED 3' BELOW CEILING TO BOTTOM OF FIXTURE	WHITE	IP69K		INTEGRAL 0-10V DIMMING DRIVER, INTEGRAL OCCUPANCY AND PHOTOCELL	24047 LUMEN, 3000K	180	HOLOPHANE CAT. NO. VL-2400LM-ACL-WD-120-GZ10-30K-90CRI-MSEXAWL-DSCXAWL	
B	LED WEATHER PROOF LED HIGH BAY	ALUMINUM	ACRYLIC	SUSPENDED 3' BELOW CEILING TO BOTTOM OF FIXTURE	WHITE	IP69K		INTEGRAL 0-10V DIMMING DRIVER	12292 LUMEN, 3000K	82	HOLOPHANE CAT. NO. VL-1200LM-ACL-WD-120-GZ10-30K-90CRI-DM	
C1	4 FOOT LINEAR LED STRIP	STEEL	ACRYLIC	SUSPENDED 13' AFF OR SURFACE MOUNTED	WHITE	DAMP		INTEGRAL 0-10V DIMMING DRIVER	5000 LUMEN, 3500K	38	CREE CAT. NO. LS4-50L-35K-10V-FD	PROVIDE ADJUSTABLE CABLE SUPPORT KIT.
C2	4 FOOT LINEAR LED STRIP	STEEL	ACRYLIC	SURFACE MOUNTED	WHITE	DAMP		INTEGRAL 0-10V DIMMING DRIVER	4000 LUMEN, 3500K	30	CREE CAT. NO. LS4-40L-35K-10V-FD	
D1	4" RECESSED LED DOWNLIGHT	ALUMINUM	PLASTIC WHITE REFLECTOR	RECESSED	WHITE	DAMP		INTEGRAL DIM TO WARM 0-10V DRIVER	2000 LUMEN, DIM TO WARM	21	PORTFOLIO CAT. NO. LD4B-20-D010-EU4B-209030D2W-4LB-PS-1-MW	DRIVER TO BE 0-10V DIM TO WARM
D2	4" RECESSED LED DOWNLIGHT	ALUMINUM	PLASTIC WHITE REFLECTOR	RECESSED	WHITE	WET		INTEGRAL DIM TO WARM 0-10V DRIVER	2000 LUMEN, DIM TO WARM	21	PORTFOLIO CAT. NO. LD4B-20-D010-EU4B-209030D2W-4LB-PS-1-MW-LGSKTIP66	DRIVER TO BE 0-10V DIM TO WARM
F	LOBBY LED PENDANT	ALUMINUM	WHITE REFLECTOR	PENDANT8'AFF	RED	DAMP		INTEGRAL 0-10V DIMMING DRIVER	900 LUMEN, 3500K	15	TMS LIGHTING CAT. NO. CAL-I-12-15LED-CRD-35K-120-F10-DML-BL-ACC	PROVIDE EXTRA LONG SUPPORT AND POWER CABLE FOR SUSPENSION 8'AFF. CONFIRM COLOR WITH ARCHITECT PRIOR TO ORDERING
G	LED WALL VANITY	EXTRUDED ALUMINUM	PAINTED WHITE REFLECTOR	WALL MOUNTED . CENTER FIXTURE 6" ABOVE TOP OF MIRROR.	WHITE	DAMP		INTEGRAL 0-10V DIMMING DRIVER	850 LUMEN, 3500K	11	VISA LIGHTING CAT. NO. CV1700-L35K-H-TW9016	
SA1	SINGLE-HEAD POLE MOUNTED LED	DIE CAST ALUMINUM	COMFORT OPTICS TYPE II DISTRIBUTION	POLE MOUNTED @ 20' ABOVE GRADE	BLACK	IP65		INTEGRAL 0-10V DIMMING DRIVER	8110 LUMENS; LED; 3000K; TYPE 2 DISTRIBUTION	75	GARDCO CAT. NO. P26-140L-1675-WW-G2-AR-2-120-DD-BK	POLE TO BE 4" ODD STRAIGHT SQUARE STEEL. CONFIRM COMPLIANCE WITH PPR STANDARDS PRIOR TO ORDERING.
SA2	DUAL-HEADED POLE MOUNTED LED	DIE CAST ALUMINUM	COMFORT OPTICS TYPE V DISTRIBUTION	2 HEADS @ 180 DEGREES; POLE MOUNTED @ 20' ABOVE GRADE	BLACK	IP65		INTEGRAL 0-10V DIMMING DRIVER	16338 LUMENS; LED; 3000K; TYPE 5 DISTRIBUTION	150	GARDCO CAT. NO. P26-140L-1675-WW-G2-AR-2-120-DD-BK-PTF2-P26-2-180-BK	POLE TO BE 4" ODD STRAIGHT SQUARE STEEL. CONFIRM COMPLIANCE WITH PPR STANDARDS PRIOR TO ORDERING.
S1	WALL MOUNTED MAN DOOR LED	CAST ALUMINUM	TEMPERED GLASS	WALL MOUNTED. TOP OF LUMINAIRE TO BE ALIGNED WITH TOP OF ADJACENT DOOR FRAME.	BRONZE	IP64		INTEGRAL 0-10V DIMMING DRIVER	449 LUMEN, 3000K	13	BEGA CAT. NO. 3581-LED-BRZ-3000K	
S2	WALL MOUNTED BAY DOOR LED	DIE CAST ALUMINUM	DIFFUSE OPTICAL GRADE LENS	WALL MOUNTED. CENTER ON BAY DOOR. CENTER OF LUMINAIRE TO BE MOUNTED 12" ABOVE TOP OF DOOR FRAME.	BLACK	IP65		INTEGRAL 0-10V DIMMING DRIVER	3724 LUMEN, 3000K	30	GARDCO CAT. NO. PWS-140L-650-WW-G2-4-120-DD-BK	
X	UNIVERSAL MOUNTED EDGE LIT THIN PROFILE EXIT SIGN.	NOMINAL 12-INCH WIDE BY 8.5-INCH TALL BY 0.5-INCH DEEP EDGE LIT. CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN.	RED	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	BRUSHED ALUMINUM	DAMP		INTEGRAL DRIVER AND BATTERY	RED LED	2	EVENLITE, ISOLITE, PATHWAY, SURE-LITES TPX OR APPROVED	
NOTES:												
1	DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.											
2	PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.											
3	COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.											
4	SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.											
5	PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.											
6	REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.											

LIGHTING CONTROL MATRIX: SPACE BY SPACE					
Room Name	Occupancy Sensor Type	Photosensor Control	Control Functions	Product Basis of Design	Remarks
Large Vehicle Bay, Equipment Storage, Trunk Protection	Luminaire Integrated Passive Infrared	Yes. Luminaire Integrated.	Auto on/off with occupancy sensors. Auto dimming within daylight zones with photocell. Manual on/off and dimming of each bay from wall station. Normal power loss within zone triggers emergency luminaires to go to full brightness.	LLLC, WDM, WGW, EM	
Rope Drying Room / Mud Room	Wall Mounted Passive Infrared	No	Auto off with occupancy sensor. Manual on/off and dimming with wall station	DMV	
Small Engine Parts, Safety Equip., Hanging Tools, Pesticides, Tool Room (Locked), Education Material, Locker, Bulk Fluid	Ceiling Mounted Dual Technology	No	Auto off with occupancy sensor. Manual on/off and dimming with wall station	DM, OS, PP	
Lobby/Corridor	Ceiling Mounted Dual Technology	No	Auto on/off with occupancy sensor. Normal power loss within zone triggers emergency luminaires to go to full brightness.	PP, EM, OS	
Shower	None	No	Manual on/off and dimming with wall station.	DM	
Unisex RR	Wall Mounted Passive Infrared	No	Auto off with occupancy sensor. Manual on/off and dimming with wall station	DMV	
Elec./Mech./Fire Riser	None	No	Manual on/off and dimming with wall station.	DM	
Covered/Unsecured Equipment Storage, Building Mounted Exterior and Site Lighting	None	No	Timeclock Controlled. Normal power loss triggers emergency luminaires to go to full brightness.	TC, EM	
Covered Wash Bay/Dumpster	None	No	Timeclock Controlled	TC	
Product Basis of Design Legend DM - Dimming Wall Switch - Lutron Nova T NTSTV DMV - Dimming Wall Switch with Infrared Vacancy Sensors - Lutron Maestro MS-Z101-V-WH WDM - Analog Rocker Switch On/Off Raise Lower Acuity Cat. No. RS-CCS-BWH with Xpoint Cat. No XPA-WCI Wall Control Interface WGW - Xpoint Wireless Gateway with Sensor Switch Software. OS - Ceiling Mounted Passive Infrared Occupancy Sensor - Lutron LOS-CDT-2000R-WH TC - Timeclock - Intermatic Cat. No. ET8215C LLLC - Xpoint Wireless Luminaire Integrated Photocell and Occupancy Sensor EM - Emergency Lighting Relay - UL 924 Relay PP - Power Pack, Lutron Cat. No. PP-DV General Notes: 1. In all areas with emergency lighting when normal power in the area is lost, emergency luminaires are to turn on and go to full brightness. 2. Photosensor dimming zones indicated on drawings. 3. All luminaire control modules and area control modules are to be hardwired and installed within concealed accessible locations such as above T-bar ceilings or within service rooms. 4. Custom scene buttons are to be selected by owner prior to ordering. 5. Provide wall mounting kits appropriate for rough in and wall material.					

PROJECT 2016-0289
CONTACT Cody Bargholz

**INTERFACE**
ENGINEERING

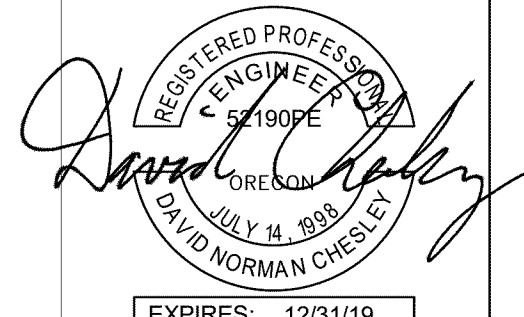
100 SW Main St.
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FAX 503.382.2262
www.interfaceengineering.com

NOTE:
SCALE INDICATED ON DRAWING
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BORDER IS 22" X 34".

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10.04.2019



EXPIRES: 12/31/19

Portland Parks and Recreation
Amanda Fritz, Commissioner - Kia Selley, Interim Director

LUMINAIRE SCHEDULE
Urban Forestry Maintenance Facility
10910 N Denver, Portland, OR 97217
PROJECT MANAGER: Robin Laughlin

DATE: **10.04.2019**
SCALE: REFERENCE DETAILS
DRAWN BY: **AJZ**
SECTION:

REVISIONS		
DATE	DESCRIPTION	BY


E0.02
Job No. **4655-01**

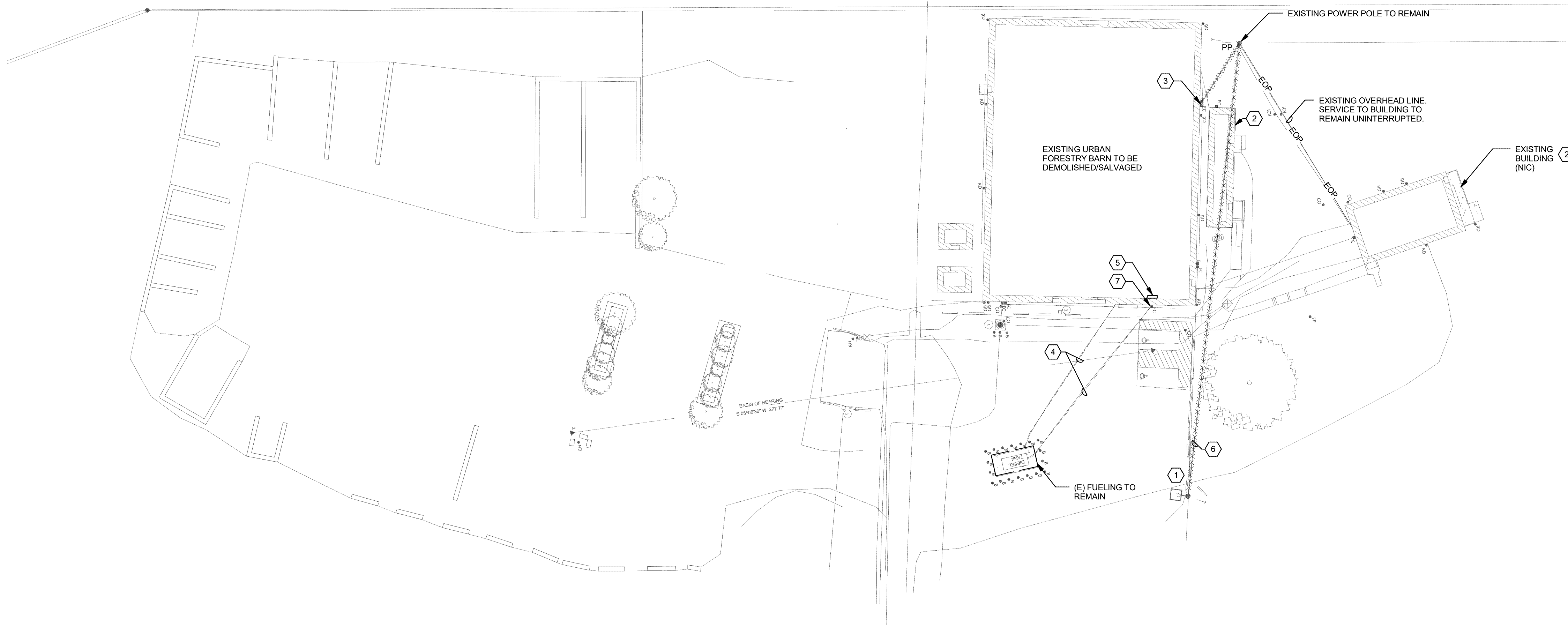
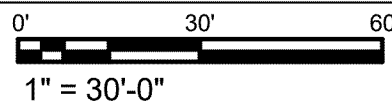
DRAWING: \$FILES\$

PLOTTED ON: \$DATES\$

PLOTTED BY: \$USERNAMES\$

PLOTTED FROM: \$COMPUTERNAME\$

1 SITE DEMOLITION PLAN - ELECTRICAL



SHEET KEYNOTES

- 1 EXISTING POLE-MOUNTED LUMINAIRE NOT IN PROJECT SCOPE.
- 2 EXISTING BUILDING TO REMAIN AND REMAIN OPERATIONAL DURING CONSTRUCTION.
- 3 LOCATION OF EXISTING TRAILER UTILITY METER AND DISCONNECT. RELOCATE TO EXTERIOR OF EXISTING TRAILER. MOUNT ON 6'X6' PRESSURE TREATED POST. 25' LONG WITH 5' BELOW GROUND PER PACIFIC POWER REQUIREMENTS.
- 4 FIVE (5) EXISTING UNDERGROUND 3/4\"



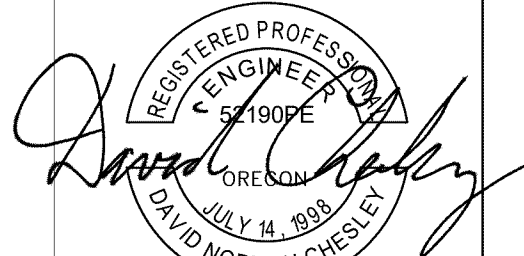
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10.04.2019



EXPIRES: 12/31/19

Portland Parks and Recreation

Amanda Fritz, Commissioner - Kib Selley, Interim Director

SITE DEMOLITION PLAN - ELECTRICAL
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin

10910 N Denver, Portland, OR 97217

DATE: 10.04.2019

SCALE: REFERENCE DETAILS

DRAWN BY:

Author

SECTION:

REVISIONS

DATE	DESCRIPTION	BY

PARKS
REPLACEMENT
BOND
2014

E0.40

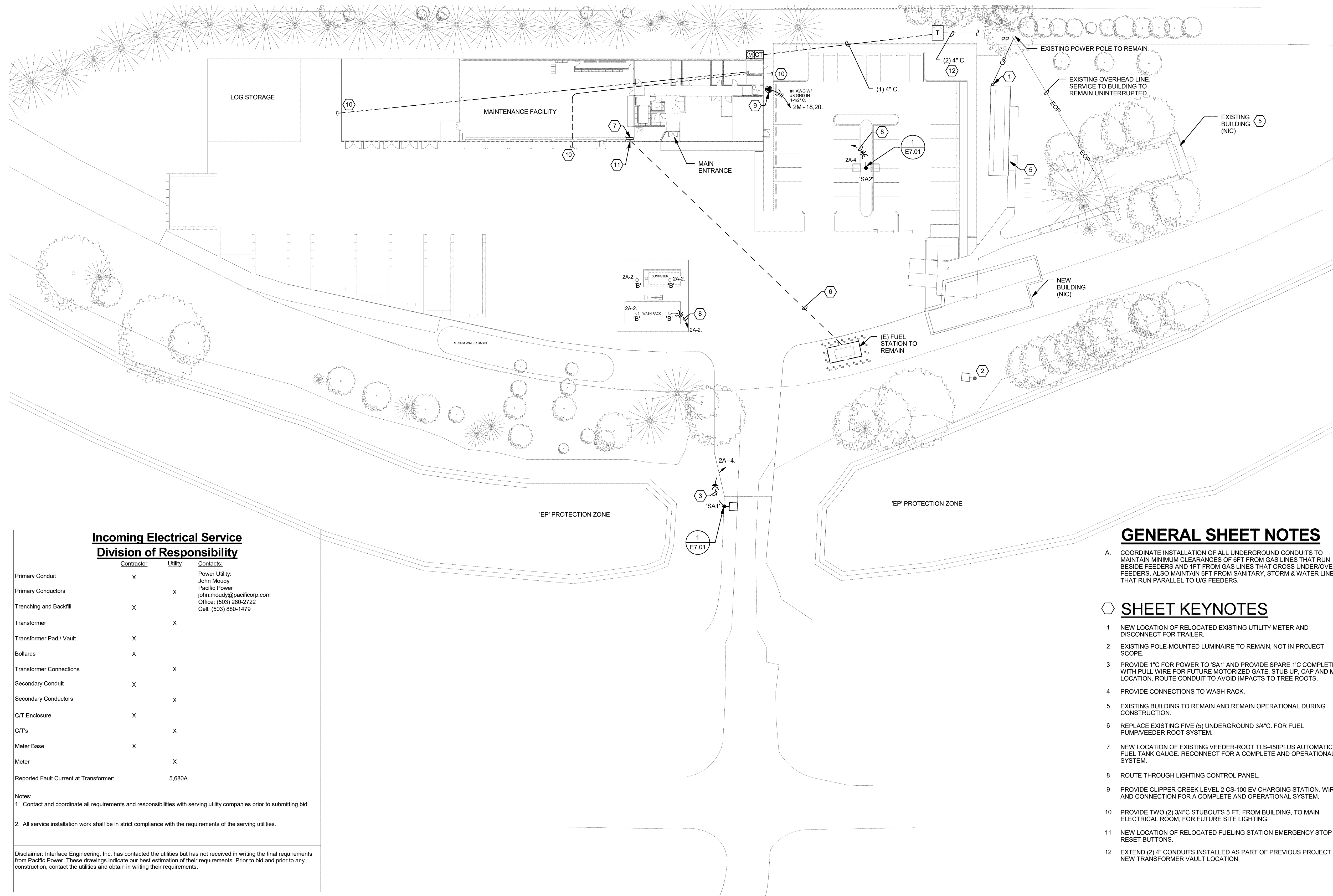
Job No.
4655-01

PROJECT 2016-0289
CONTACT Cody Bargholz



100 SW Main St.
Suite 1600
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TEL 503.382.2266
FAX 503.382.2262
www.interfaceengineering.com

NOTE:
SCALE INDICATED ON DRAWING
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BORDER IS 22" X 34".



Incoming Electrical Service Division of Responsibility

	<u>Contractor</u>	<u>Utility</u>	<u>Contacts:</u>
Primary Conduit	X		Power Utility: John Moudy Pacific Power john.moudy@pacificcorp.com Office: (503) 280-2722 Cell: (503) 880-1479
Primary Conductors		X	
Trenching and Backfill	X		
Transformer		X	
Transformer Pad / Vault	X		
Bollards	X		
Transformer Connections		X	
Secondary Conduit	X		
Secondary Conductors		X	
C/T Enclosure	X		
C/T's		X	
Meter Base	X		
Meter		X	
Reported Fault Current at Transformer:		5,680A	

Notes:

1. Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.
2. All service installation work shall be in strict compliance with the requirements of the serving utilities.

Disclaimer: Interface Engineering, Inc. has contacted the utilities but has not received in writing the final requirements from Pacific Power. These drawings indicate our best estimation of their requirements. Prior to bid and prior to any construction, contact the utilities and obtain in writing their requirements.

GENERAL SHEET NOTES

- A. COORDINATE INSTALLATION OF ALL UNDERGROUND CONDUITS TO MAINTAIN MINIMUM CLEARANCES OF 6FT FROM GAS LINES THAT RUN BESIDE FEEDERS AND 1FT FROM GAS LINES THAT CROSS UNDER/OVER FEEDERS. ALSO MAINTAIN 6FT FROM SANITARY, STORM & WATER LINES THAT RUN PARALLEL TO U/G FEEDERS.

SHEET KEYNOTES

- 1 NEW LOCATION OF RELOCATED EXISTING UTILITY METER AND DISCONNECT FOR TRAILER.
- 2 EXISTING POLE-MOUNTED LUMINAIRE TO REMAIN, IN PROJECT SCOPE.
- 3 PROVIDE 1" FC FOR POWER TO 'SA1' AND PROVIDE SPARE 1" C COMPLETE WITH PULL WIRE FOR FUTURE MOTORIZED GATE. STUB UP, CAP AND MARK LOCATION. ROUTE CONDUIT TO AVOID IMPACTS TO TREE ROOTS.
- 4 PROVIDE CONNECTIONS TO WASH RACK.
- 5 EXISTING BUILDING TO REMAIN AND REMAIN OPERATIONAL DURING CONSTRUCTION.
- 6 REPLACE EXISTING FIVE (5) UNDERGROUND 3/4". FOR FUEL PUMP/FEEDER ROOT SYSTEM.
- 7 NEW LOCATION OF EXISTING VEEDER-ROOT TLS-450PLUS AUTOMATIC FUEL TANK GAUGE. RECONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 8 ROUTE THROUGH LIGHTING CONTROL PANEL.
- 9 PROVIDE CLIPPER CREEK LEVEL 2 CS-100 EV CHARGING STATION. WIRE AND CONNECTION FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 10 PROVIDE TWO (2) 3/4" STUBOUTS 5 FT. FROM BUILDING, TO MAIN ELECTRICAL ROOM, FOR FUTURE SITE LIGHTING.
- 11 NEW LOCATION OF RELOCATED FUELING STATION EMERGENCY STOP AND RESET BUTTONS.
- 12 EXTEND (2) 4" CONDUITS INSTALLED AS PART OF PREVIOUS PROJECT TO NEW TRANSFORMER VAULT LOCATION.

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10.04.2019

REGISTERED PROFESSIONAL
ENGINEER
52190PE
OREGON
JULY 14, 1998
DAVID NORMAN CHESLEY

EXPIRES: 12/31/19

EXPIRES: 12/31/19

Portland Parks and Recreation

Amanda Fritz, Commissioner - Kia Sellev, Interim Director

SITE PLAN - ELECTRICAL
Urban Forestry Maintenance Facility
PROJECT MANAGER: Robin L. L...

DATE: **10.04.2019** SCALE: REFERENCE DETAILS DRAWN BY: **JK** SECTION:

REVISIONS

DATE	DESCRIPTION	BY



E0.41
No. **4655-01**

NOTE:
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PROJECT 2016-0289
CONTACT Cody Bargholz



INTERFACE
ENGINEERING

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SEE SHEET 2

TOPOGRAPHIC SURVEY

LOCATED IN THE NE QUARTER OF SECTION 4
TOWNSHIP 1 NORTH, RANGE 1 EAST, WILLAMETTE MERIDIAN
CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON
FIELD SURVEYED: OCTOBER 12, 2015

NOTES:

- 1) VERTICAL DATUM: CITY OF PORTLAND
BENCHMARK: 2 INCH BRASS DISK LOCATED AT THE DELTA PARK FIELD HOUSE IN EAST DELTA PARK
BENCHMARK NO. 2821 ELEVATION = 1824'
- 2) BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/91. THE RESULTANT BEARING FROM CONTROL POINTS 1 TO 2 BEING SOUTH 03°30'51" WEST.
- 3) A TITLE REPORT WAS NOT PROVIDED FOR THIS SURVEY. EASEMENTS MAY EXIST AFFECTING THE SUBJECT PROPERTY.
- 4) UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS UNLESS INDICATED OTHERWISE. UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED (POTHOLED) PRIOR TO CONSTRUCTION.

PROJECT CONTROL:

STATION	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	MAG NAIL W/ WASHER 'KFF CONTROL'	712428.38'	7643536.60'	19.78'
2	5/8" IR W/ RED PLASTIC CAP 'KFF CONTROL'	712152.32'	7643511.86'	20.13'

LEGEND:

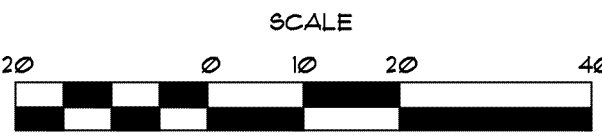
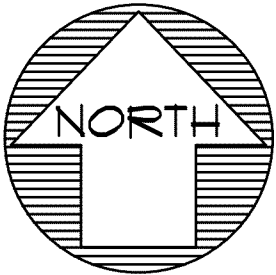
	BUILDING OUTLINE WITH DOOR
	SIDEWALK/CONCRETE
	WALL LINE
	ASPHALT
	ZONE OScH (PER GIS)
	PROPERTY LINE
	RIGHT-OF-WAY
	BUILDING OVERHANG
	CURB LINE
	EDGE OF ASPHALT
	EDGE OF GRAVEL
	CYCLONE FENCE
	ELECTRICAL LINE
	STORM DRAIN LINE
	SANITARY SEWER LINE
	WATER LINE
	TELECOMMUNICATIONS LINE
	OVERHEAD UTILITY LINES
	SIGN
	BOLLARD
	BIKE RACK
	BIKE RACK
	ROOF DRAIN
	CLEAN OUT
	ELECTRICAL METER
	ELECTRICAL CABINET
	GUY ANCHOR
	POWER POLE
	OVERHEAD LIGHT
	POWER POLE/OVERHEAD LIGHT
	SANITARY/STORM STRUCTURE *
	COMBINATION SEWER MANHOLE
	STORM MANHOLE
	SANITARY MANHOLE
	CATCH BASIN
	FIRE DEPARTMENT CONNECT
	IRRIGATION CONTROL VALVE
	HOSE BIB
	DECIDUOUS TREE
	-PERIMETER REPRESENTS DRIPLINE
	CONIFEROUS TREE
	-PERIMETER REPRESENTS DRIPLINE
	FOUND MONUMENT
	SET CONTROL POINT
	HANDICAP PARKING
	HANDICAP RAMP

SANITARY TABLE

- 1) SANITARY MANHOLE (PUMP VAULT)
RIM = 20.24'
IE 4" IN (W) = 17.48'
IE 3" IN (SW) = 19.14'
NO OTHER PIPES ARE VISIBLE IN STRUCTURE

STORM TABLE

- 1) CATCH BASIN
RIM = 19.41'
IE 12" OUT (E) = 18.34'
- 2) CATCH BASIN
RIM = 19.15'
FILLED WITH DEBRIS



JOB NO. 31217.04

kpff

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REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JUNE 30, 1997
TROY T. TETSUKA
2841

EXPIRES 6/30/

Portland Parks and Recreation
Director
MIKE ABBATE

Commissioner
AMANDA FRITZ

TOPOGRAPHIC SURVEY
DELTA PARK FORESTRY YARD

Portland, Oregon

PROJECT MANAGER: SUSAN MEMBER 503-823-9709
SECTION: NE 1/4 OF SEC 4, T1N, R1E, W1M

DRAWN BY: NJL

DATE: 10/4/2017

SCALE: 1" = 20'

REVISIONS

DATE	DESCRIPTION	BY
8/2/16	ADD ZONE OScH	SJD
10/4/17	ADD L STM & SAN	SJD

E1

SEE SHEET 1

TOPOGRAPHIC SURVEY

LOCATED IN THE NE QUARTER OF SECTION 4,
TOWNSHIP 1 NORTH, RANGE 1 EAST, WILLAMETTE MERIDIAN
CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON
FIELD SURVEYED: OCTOBER 12, 2015

NOTES:

- 1) VERTICAL DATUM: CITY OF PORTLAND
BENCHMARK: 2 INCH BRASS DISK LOCATED AT THE DELTA PARK FIELD HOUSE IN EAST DELTA PARK
BENCHMARK NO. 2827 ELEVATION = 18.24'
- 2) BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/SI. THE RESULTANT BEARING FROM CONTROL POINTS 1 TO 2 BEING SOUTH 03°30'51" WEST.
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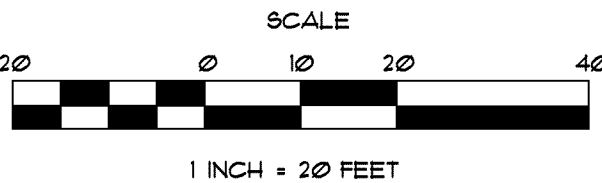
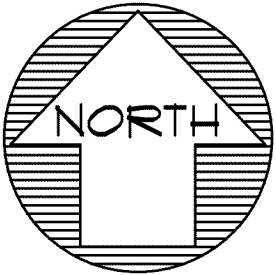
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	SIDEWALK/CONCRETE
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	ASPHALT
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	CURB LINE
	EDGE OF ASPHALT
	EDGE OF GRAVEL
	CYCLONE FENCE
	ELECTRICAL LINE
	STORM DRAIN LINE
	SANITARY SEWER LINE
	WATER LINE
	TELECOMMUNICATIONS LINE
	OVERHEAD UTILITY LINES
	SIGN
	BOLLARD
	BIKE RACK
	BIKE RACK
	ROOF DRAIN
	CLEAN OUT
	ELECTRICAL METER
	ELECTRICAL CABINET
	GUY ANCHOR
	POWER POLE
	OVERHEAD LIGHT
	POWER POLE/OVERHEAD LIGHT
	SANITARY/STORM STRUCTURE *
	COMBINATION SEWER MANHOLE
	STORM MANHOLE
	SANITARY MANHOLE
	CATCH BASIN
	FIRE DEPARTMENT CONNECT
	IRRIGATION CONTROL VALVE
	HOSE BIB
	DECIDUOUS TREE
	PERIMETER REPRESENTS DRIPLINE
	CONIFEROUS TREE
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	HANDICAP RAMP

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NO OTHER PIPES ARE VISIBLE IN STRUCTURE

STORM TABLE

- ① CATCH BASIN
RIM = 19.47'
IE 12" OUT (E) = 18.34'
- ② CATCH BASIN
RIM = 19.15'
FILLED WITH DEBRIS



JOB NO. 312137.04

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Healthy Parks, Healthy Portland

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LAND SURVEYOR

OREGON
JUNE 30, 1997
TROY T. TETSUKA
2841

EXPIRES 6/30/

Portland Parks and Recreation
AMANDA FRITZ, Commissioner
MIKE ABBATE, Director

TOPOGRAPHIC SURVEY
DELTA PARK FORESTRY YARD
Portland, Oregon

PROJECT MANAGER: SUSAN MEAMBER 503-823-9709
SECTION: NE 1/4 OF SEC 4, T1N, R1E, W1A

DRAWN BY: NIL

DATE: 10/4/2017

SCALE: 1" = 20'

REVISIONS

DATE	DESCRIPTION	BY
8/2/16	ADD ZONE 08ch	SJD
10/4/17	ADD'L STM & SAN	SJD

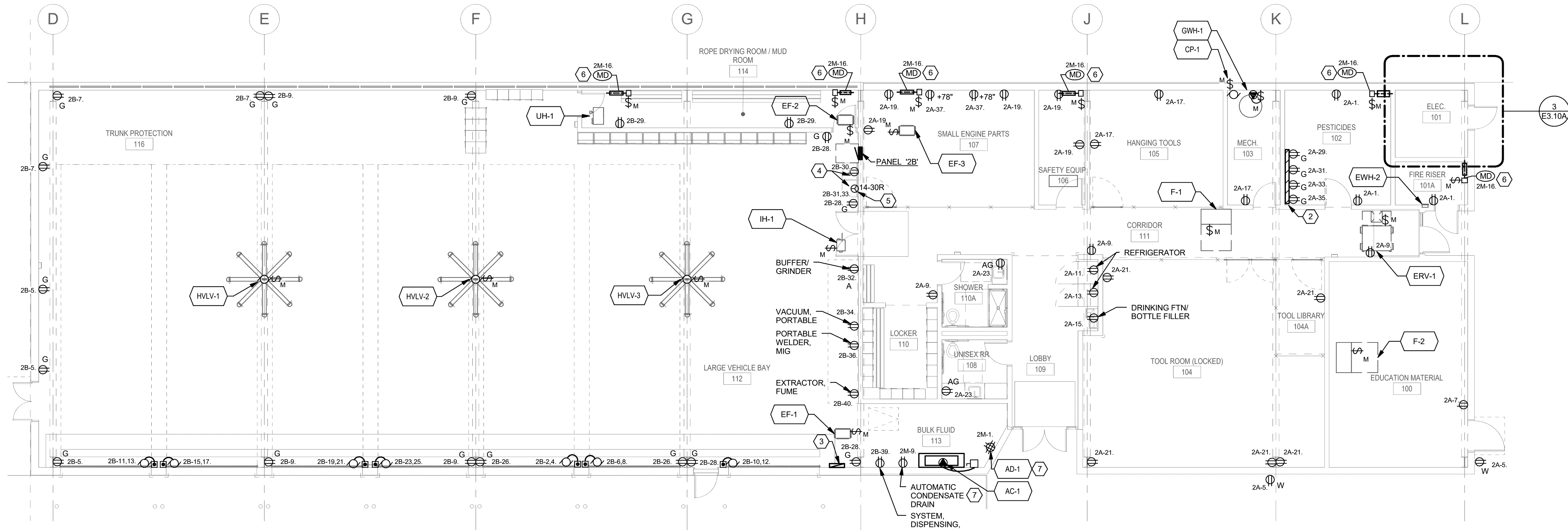
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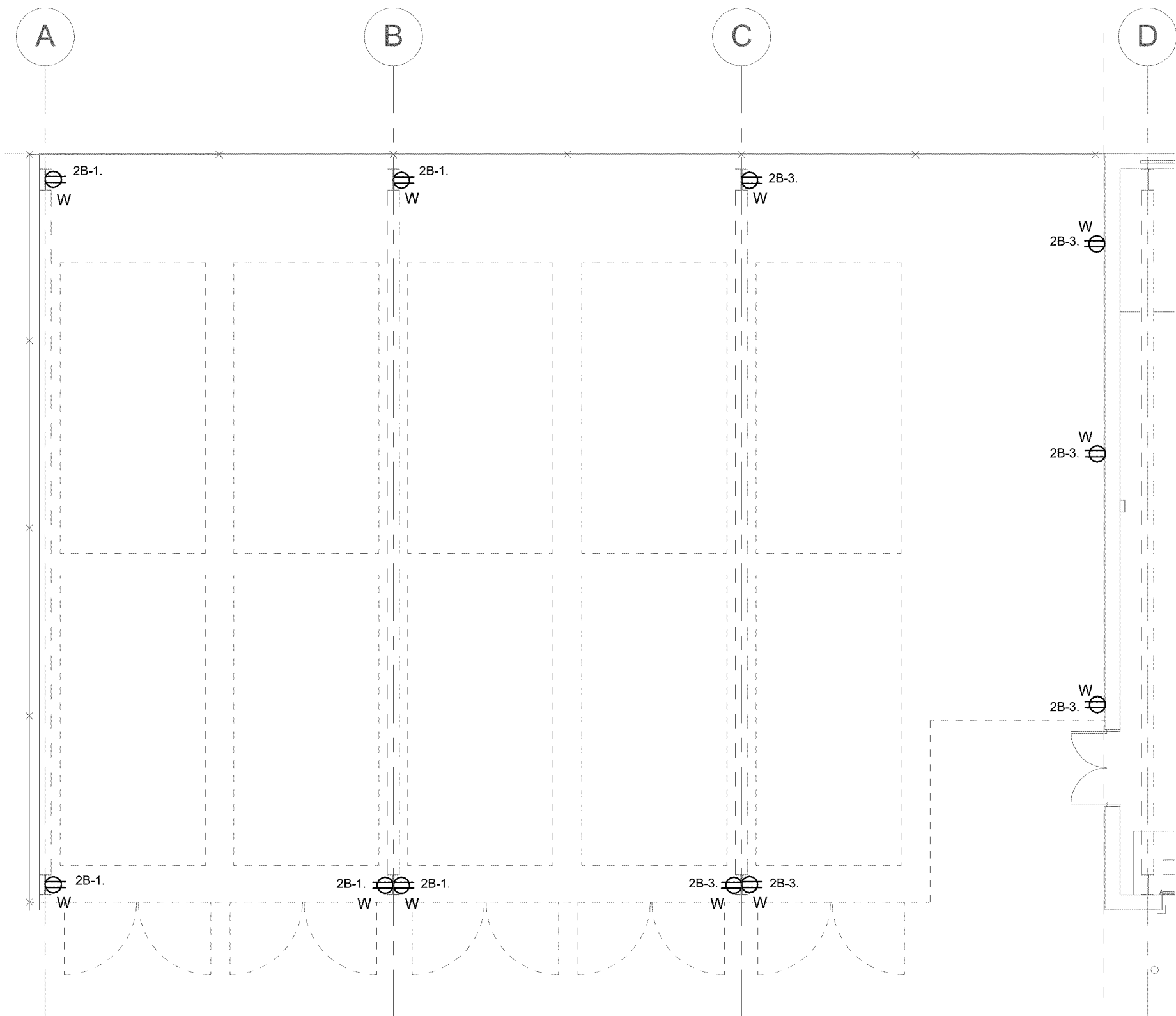
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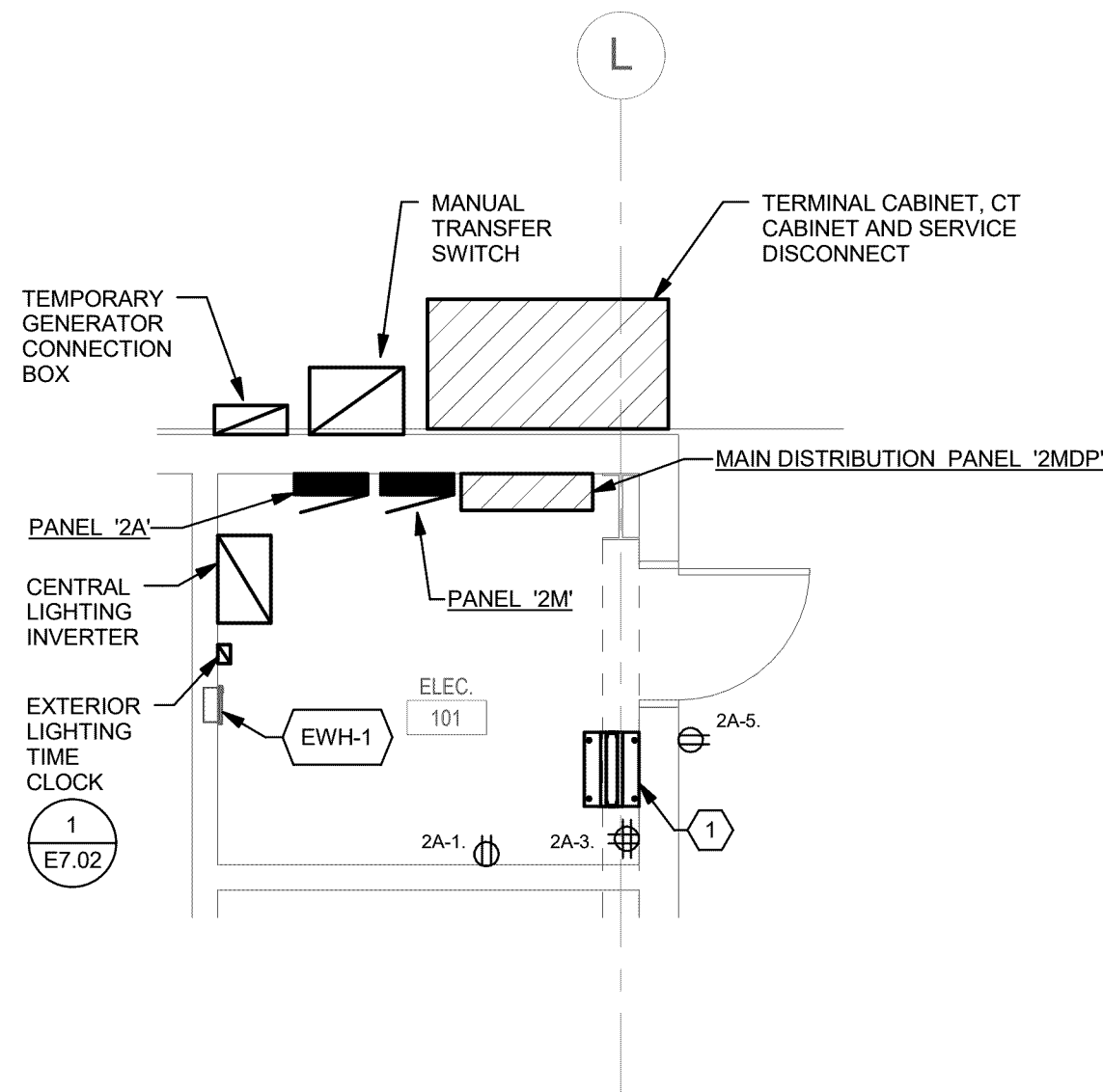
1 LEVEL 1 POWER PLAN - SECTOR A

0' 4' 8' 16'
1/8" = 1'-0"



2 LEVEL 1 POWER PLAN - SECTOR B

0' 4' 8' 16'
1/8" = 1'-0"



3 ENLARGED ELECTRICAL ROOM 101

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

SHEET KEYNOTES

- SPACE RESERVED FOR OFCI NETWORK/COMMUNICATIONS RACK. DIMENSIONS ARE 4' H X 2' W X 3' DEEP. PROVIDE DEDICATED 20A CIRCUIT AND PLYWOOD BACKER BOARD.
- BATTERY BENCH, PROVIDE SURFACE MOUNTED WIREMOLD AT +34" AFF. SEE MDG EQUIPMENT ID NO. 2030 FOR MORE INFORMATION.
- NEW LOCATION OF VEEDER-ROOT TLS-450 PLUS AUTOMATIC FUEL TANK GAUGE. COORDINATE WITH MANUFACTURERS REPRESENTATIVE. RECONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
- ADD ALT #2: PROVIDE CONNECTION TO WASHER & DRYER.
- PROVIDE NEMA 14-30R RECEPTACLE, (3) #10CU, (1) #10 CU GND FOR DRYER.
- PROVIDE CONNECTION TO MOTORIZED DAMPER.
- COORDINATE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V, SINGLE PHASE, 20A STANDARD GROUNDED RECEPTACLE FOR PORTABLE WELDER.

PROJECT 2016-0289
CONTACT Cody Bargholz
INTERFACE
ENGINEERING
100 SW Main St.
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www.interfaceengineering.com

NOTE:
SCALE INDICATED ON DRAWING
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10.04.2019

REGISTERED PROFESSIONAL
ENGINEER
JULY 19, 1993
DAVID NORMAN CHESLEY

EXPIRES: 12/31/19

Portland Parks and Recreation

Amanda Fritz, Commissioner - Kib Selley, Interim Director

LEVEL 01 FLOOR PLAN SECTORS - POWER
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin

DATE: 10.04.2019 SCALE: REFERENCE DETAILS DRAWN BY: JK SECTION:

REVISIONS

DATE	DESCRIPTION	BY

PARKS
REPLACEMENT
BOND
2014

E3.10A

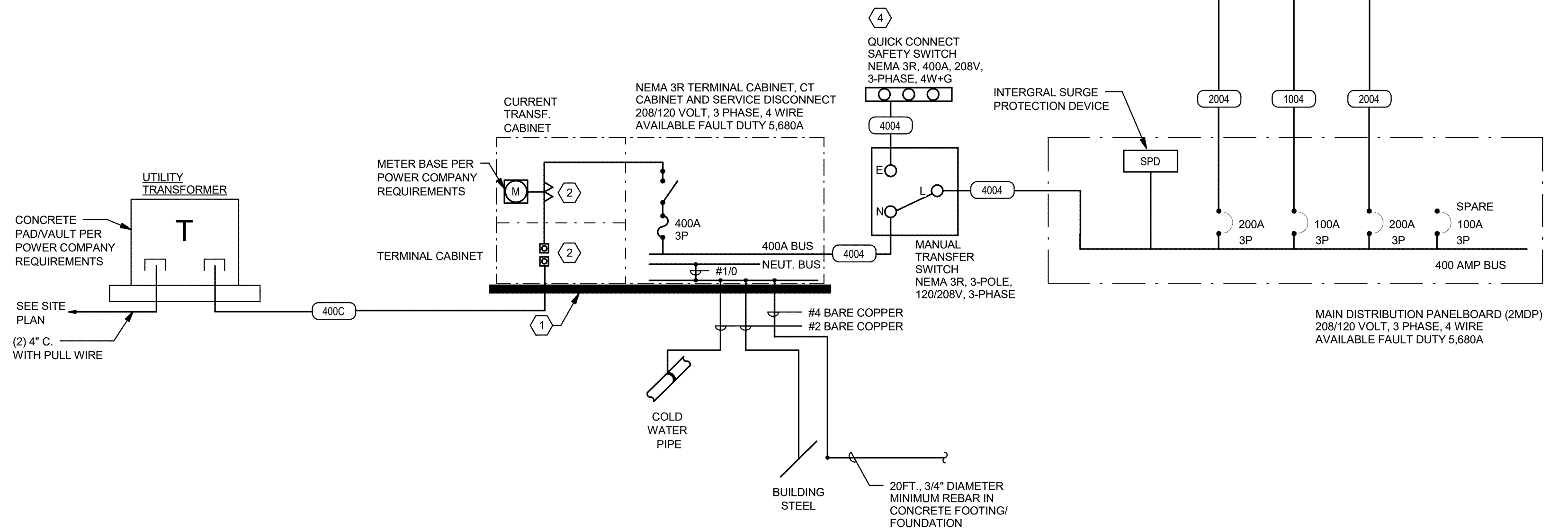
Job No.
4655-01

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1 SINGLE LINE DIAGRAM

NO SCALE

FEEDER SCHEDULE

A,C,S,X A=Aluminum
 C-Conduit only
 S=Service secondary
 X=Separately derived system

302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.
400C TWO 4" DIAMETER EMPTY CONDUIT WITH PULL CORD
1004 4 #2 CU, 1 #8 CU GND., IN 1 1/4" C.
2004 4 #3/0 CU, 1 #6 CU GND., IN 2" C.
4004 2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)

SHEET KEYNOTES

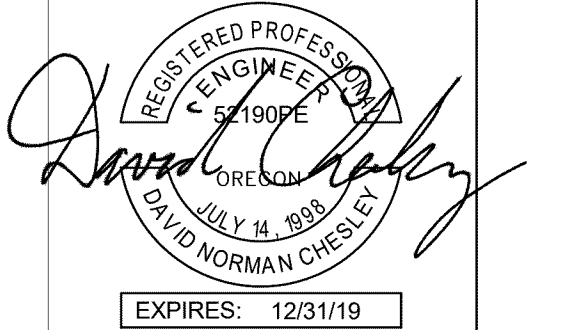
- 1 PROVIDE 3-1/2 INCH HIGH CONCRETE HOUSEKEEPING PAD UNDER TRANSFORMER/SWITCHBOARD.
- 2 CURRENT TRANSFORMER/TERMINAL CABINET PER POWER COMPANY REQUIREMENTS.
- 3 PROVIDE 2.25kVA, SINGLE PHASE, 120V CENTRAL LIGHTING INVERTER. EMERGI-LITE IPS SERIES OR APPROVED EQUIVALENT.
- 4 PROVIDE QUICK CONNECT NEMA 3R RATED SAFETY SWITCH WITH CAM LOK CONNECTORS FOR TEMPORARY GENERATOR CONNECTION.



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Portland Parks and Recreation

Commissioner - Kia Selley, Interim Director

SINGLE LINE DIAGRAM - ELECTRICAL
Urban Forestry Maintenance Facility

10910 N Denver, Portland, OR 97217
PROJECT MANAGER: Robin Laughlin

DATE: 10.04.2019 SCALE: REFERENCE DETAILS DRAWN BY: AJZ SECTION:

REVISIONS

DATE	DESCRIPTION	BY



E5.01

Job No.

4655-01

PROJECT 2016-0289
CONTACT Cody Bargholz



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NOTE:
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IS CORRECT IF DRAWING
BORDER IS 22" X 34".

PANELBOARD: 2A

MAIN LUGS ONLY
BUS AMPACITY: 225A
EQUIPMENT RATING: 120/208 Wye
AIC RATING: 10000 A

MOUNTING: Surface
ENCLOSURE: Type 1
LOCATION: Space 51
SUPPLIED FROM: 2MDP

Accessories:

					Load (VA)										
CKT	Description/Location	Type	C.B.	Note	A	B	C	A	B	C	Note	C.B.	Type	Description/Location	CKT
1	R - PEST., FIRE RISER, ELEC RM.	R	20 A/1		720			328				20 A/1	L	L - WASH RACK	2
3	DATA RACK	C	20 A/1			500			324			20 A/1	L	L - SITE LIGHTING	4
5	R - EXTERIOR	R	20 A/1				540			176		20 A/1	L	L - EXTERIOR BUILDING LIGHTING	6
7	R - EDUCATION MATERIAL	R	20 A/1		180			0				--	--	SPARE	8
9	R - CORRIDOR/LCOKER	R	20 A/1			540			0			--	--	SPARE	10
11	REFRIGERATOR	G	20 A/1				750			0		--	--	SPARE	12
13	REFRIGERATOR	G	20 A/1		750			0				--	--	SPARE	14
15	BOTTLE FILLER/DRINKING FTN	R	20 A/1	1		180			0			--	--	SPARE	16
17	R - MECH 102, HANGING TOOLS 105	R	20 A/1				540			0		--	--	SPARE	18
19	R - SAFETY EQUIP., ENG PARTS	R	20 A/1		900			0				--	--	SPARE	20
21	R - TOOL ROOM/TOOL LIBRARY	R	20 A/1			900			0	0	--	--	--	SPARE	22
23	R - SHOWER/RR	R	20 A/1				360			0	--	--	--	SPARE	24
25	LIGHTING INV-1	L	30 A/1		1587			0			--	--	--	SPARE	26
27	LIGHTING SECTOR A	L	20 A/1			1241			0		--	--	--	SPARE	28
29	R - WIREMOLD PESTICIDES 102	R	20 A/1				180			0	--	--	--	SPARE	30
31	R - WIREMOLD PESTICIDES 102	R	20 A/1		180			0			--	--	--	SPARE	32
33	R - WIREMOLD PESTICIDES 102	R	20 A/1			180			0	0	--	--	--	SPARE	34
35	R - WIREMOLD PESTICIDES 102	R	20 A/1				180			0	--	--	--	SPARE	36
37	R - SMALL ENGINE PARTS	R	20 A/1		360			0			--	--	--	SPARE	38
39	LIGHTING SECTOR A	L	20 A/1			977			0		--	--	--	SPARE	40
41	SPARE	--	--				0			0	--	--	--	SPARE	42

Total Connected load Ph. A 44 A
Total Connected load Ph. B 43 A
Total Connected load Ph. C 23 A
Panel Connected Load: 12582.0
Total Demand Load: 13867.5
35 A
38 A

Notes:
1. PROVIDE GFCI CIRCUIT BREAKER

Load Type Definitions:

Motor (125% largest Motor + 100% remaining motors) K = Kitchen (Demand as per NEC Table 220.56) C = Continuous Load (125%) X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA 100%, over 10kVA 50%) G = General Load (Non-continuous)(100%) L = Lighting (125%) H = Heating (100%)
E = Existing Load 30-day metered (125%) EL = Elevator (Demand as per NEC Table 620.14) W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals
R	5840.0	100.00%	5840.0	
L	4642.0	125.00%	5802.5	Total Connected Load: 12582.0
G	1500.0	100.00%	1500.0	Total NEC Demand: 13867.5
C	500.0	125.00%	625.0	Total Connected Current: 35 A
				Total NEC Demand Current: 38 A

PANELBOARD: 2M

MAIN LUGS ONLY
BUS AMPACITY: 225A
EQUIPMENT RATING: 120/208 Wye
AIC RATING: 10000 A

MOUNTING: Surface
ENCLOSURE: Type 1
LOCATION: Space 51
SUPPLIED FROM: 2MDP

Accessories:

					Load (VA)										
CKT	Description/Location	Type	C.B.	Note	A	B	C	A	B	C	Note	C.B.	Type	Description/Location	CKT
1	AD-1	G	20 A/1		1044			600				20 A/1	G	GWH-1	2
3	AC-1	G	60 A/3			3864			1200			20 A/1	Motor	HVLV-1	4
5	--	--	--	--			3864			1200		20 A/1	Motor	HVLV-2	6
7	--	--	--	--	3864			1200				20 A/1	Motor	HVLV-3	8
9	AUTOMATIC CONDENSATE DRAIN	G	20 A/1			20			1000			20 A/1	H	EWV-2	10
11	CP-1	G	20 A/1				1176			1000		20 A/1	H	EWV-1	12
13	EF-1	Motor	20 A/1		277			228				20 A/1	H	UH-1	14
15	EF-2	Motor	20 A/1			150			30			20 A/1	Motor	MOTORIZED DAMPERS	16
17	EF-3	Motor	20 A/2				822			8320		100 A/2	C	EV CHARGER	18
19	--	--	--	--	822			8320			--	--	--	--	20
21	ERV-1	G	20 A/2			291			0			--	--	SPARE	22
23	--	--	--	--			291			0		--	--	SPARE	24
25	F-2	Motor	20 A/1		1200			0				--	--	SPARE	26
27	F-1	Motor	20 A/1			912			0		--	--	--	SPACE	28
29	IH-1	H	20 A/1				96			0	--	--	--	SPACE	30

Total Connected load Ph. A 158 A
Total Connected load Ph. B 62 A
Total Connected load Ph. C 152 A
Panel Connected Load: 41790.0
Total Demand Load: 45950.0
116 A
128 A

Notes:

Load Type Definitions:

Motor (125% largest Motor + 100% remaining motors) K = Kitchen (Demand as per NEC Table 220.56) C = Continuous Load (125%) X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA 100%, over 10kVA 50%) G = General Load (Non-continuous)(100%) L = Lighting (125%) H = Heating (100%)
E = Existing Load 30-day metered (125%) EL = Elevator (Demand as per NEC Table 620.14) W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals
Motor	7812.0	100.00%	7812.0	
H	2324.0	100.00%	2324.0	Total Connected Load: 41790.0
G	15014.0	100.00%	15014.0	Total NEC Demand: 45950.0
C	16640.0	125.00%	20800.0	Total Connected Current: 116 A
				Total NEC Demand Current: 128 A

PANELBOARD: 2B

MAIN LUGS ONLY
BUS AMPACITY: 225A
EQUIPMENT RATING: 120/208 Wye
AIC RATING: 10000 A

MOUNTING: Recessed
ENCLOSURE: Type 1
LOCATION: Space 20
SUPPLIED FROM: 2MDP

Accessories:

					Load (VA)											
CKT	Description/Location	Type	C.B.	Note	A	B	C	A	B	C	Note	C.B.	Type	Description/Location	CKT	
1	R - SECTOR B	R	20 A/1		900			957				20 A/2	Motor	MOTOR SPACE 13	2	
3	R - SECTOR B	R	20 A/1			1080			957		--	--	--	--	4	
5	R - EQUIPMENT STORAGE	R	20 A/1				540			957	2	20 A/2	Motor	MOTOR SPACE 13	6	
7	R - TRUNK PROTECTION	R	20 A/1		540			957				--	--	--	8	
9	R -EQUIPMENT STORAGE	R	20 A/1			720			957		2	20 A/2	Motor	MOTOR SPACE 20	10	
11	MOTOR SPACE 13	Motor	20 A/2	2			957			957	--	--	--	--	12	
13	--	--	--	--	957			0			--	--	--	SPARE	14	
15	MOTOR SPACE 13	Motor	20 A/2	2		957			0		--	--	--	SPARE	16	
17	--	--	--	--			957			0	--	--	--	SPARE	18	
19	MOTOR SPACE 13	Motor	20 A/2	2	957			0			--	--	--	SPARE	20	
21	--	--	--	--			957			0	--	--	--	SPARE	22	
23	MOTOR SPACE 13	Motor	20 A/2	2			957			0	--	--	--	SPARE	24	
25	--	--	--	--	957			360				20 A/1	R	R - EQUIPMENT STORAGE	26	
27	SPARE	--	--	--		0			720			20 A/1	R	R - LARGE VEHICLE BAY	28	
29	R - ROPE DRYING ROOM/MUD...	R	20 A/1				360			180	1	20 A/1	G	WASHER	30	
31	DRYER	G	30 A/2	1	2500			1000				20 A/1	G	BUFFER/GRINDER	32	
33	--	--	--	--		2500			1000			20 A/1	G	VACUUM, PORTABLE	34	
35	LIGHTING SECTOR A	L	20 A/1				1170			1000		20 A/1	G	PORTABLE WELDER	36	
37	LIGHTING SECTOR B	L	20 A/1		492			0			--	--	--	SPARE	38	
39	DISPENSING SYSTEM	R	20 A/1			180			1800			20 A/1	G	EXTRACTOR, FUME	40	
41	SPARE	--	--	--			0			0	--	--	--	SPARE	42	
43	SPARE	--	--	--		0			0		--	--	--	SPARE	44	
45	SPARE	--	--	--		0			0		--	--	--	SPARE	46	
47	SPACE	--	--	--			0			0	--	--	--	SPACE	48	
49	SPACE	--	--	--		0			0		--	--	--	SPACE	50	
51	SPACE	--	--	--			0			0	--	--	--	SPACE	52	
53	SPACE	--	--	--			0			0	--	--	--	SPACE	54	
55	SPACE	--	--	--		0			0		--	--	--	SPACE	56	
57	SPACE	--	--	--			0			0	--	--	--	SPACE	58	
59	SPACE	--	--	--			0			0	--	--	--	SPACE	60	

Total Connected load Ph. A 91 A
Total Connected load Ph. B 102 A
Total Connected load Ph. C 67 A
Panel Connected Load: 30440.0
Total Demand Load: 30855.5
84 A
86 A

Notes:
1) CONNECTION TO WASHER AND DRYER IS ADD ALT. #2
2) VERIFY ELECTRICAL REQUIREMENTS WITH OVERHEAD DOOR MANUFACTURER PRIOR TO ORDERING.

Load Type Definitions:

Motor (125% largest Motor + 100% remaining motors) K = Kitchen (Demand as per NEC Table 220.56) C = Continuous Load (125%) X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA 100%, over 10kVA 50%) G = General Load (Non-continuous)(100%) L = Lighting (125%) H = Heating (100%)
E = Existing Load 30-day metered (125%) EL = Elevator (Demand as per NEC Table 620.14) W = Water Heater (125%)

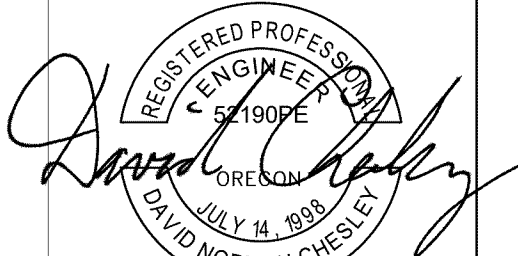
Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals
Motor	13398.0	100.00%	13398.0	
R	5400.0	100.00%	5400.0	Total Connected Load: 30440.0
L	1662.0	125.00%	2077.5	Total NEC Demand: 30855.5
G	9980.0	100.00%	9980.0	Total Connected Current: 84 A
				Total NEC Demand Current: 86 A

PROJECT 2016-0289
CONTACT Cody Bargholz

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DATE	DESCRIPTION	BY



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PLOTTED FROM: \$COMPUTERNAME\$

MECHANICAL EQUIPMENT CONNECTION SCHEDULE									
ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
AC-1	AIR COMPRESSOR	BULK FLUID 113	208/3	10.0 HP	40	60	603	2M-3,5,7.	
AD-1	AIR DRYER	BULK FLUID 113	120/1	8.7 FLA	11	20	202	2M-1.	
CP-1	CIRCULATION PUMP	MECH. ROOM 103	120/1	0.5 HP	12	20	202	2M-11.	
EF-1	EXHAUST FAN	VEHICLE BAY 112	120/1	277.0 W	3	15	202	2M-13.	
EF-2	EXHAUST FAN	ROPE DRYING RM. 114	120/1	150.0 W	2	15	202	2M-15.	
EF-3	EXHAUST FAN	SAFETY EQUIP. 106	208/1	3/4 HP	10	15	202	2M-17,19.	
ERV-1	ENERGY RECOVERY VENTILATOR	CORRIDOR 111	208/1	2.8 FLA	3.6	15	202	2M-21,23.	
EW-1	ELECTRIC WALL HEATER	ELEC RM. 101	120/1	1000.0 W	10	15	202	2M-12.	
EW-2	ELECTRIC WALL HEATER	FIRE RISER 101A	120/1	1000.0 W	10	15	202	2M-10.	
F-1	ELECTRIC FURNACE	CORRIDOR 111	120/1	7.6 FLA	9.5	15	202	2M-27.	
F-2	ELECTRIC FURNACE	EDU. MATERIAL 100	120/1	10.0 FLA	12.9	15	202	2M-25.	
GWH-1	GAS WATER HEATER	MECH. ROOM 103	120/1	5.0 FLA	6	15	202	2M-2.	
HVLV-1	CEILING FAN	VEHICLE BAY 112	120/1	10.0 FLA	12.5	20	202	2M-4.	
HVLV-2	CEILING FAN	VEHICLE BAY 112	120/1	10.0 FLA	12.5	20	202	2M-6.	
HVLV-3	CEILING FAN	VEHICLE BAY 112	120/1	10.0 FLA	12.5	20	202	2M-8.	
IH-1	INFRARED HEATER	VEHICLE BAY 112	120/1	0.8 FLA	1	15	202	2M-29.	
UH-1	UNIT HEATER	ROPE DRYING RM. 114	120/1	1.9 FLA	2	15	202	2M-14.	
GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING. B. MOCP = MAXIMUM OVER CURRENT PROTECTION MCA = MINIMUM CIRCUIT AMPACITY C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.									
WIRE / CONDUIT SCHEDULE 202 2 #12 CU, 1 #12 CU GND., IN 3/4" C. 603 3 #4 CU, 1 #10 CU GND., IN 1" C.									

PROJECT 2016-0289
CONTACT Cody Bargholz



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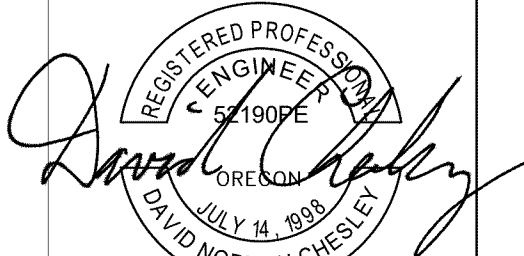
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EXPIRES: 12/31/19

Portland Parks and Recreation

Amanda Fritz, Commissioner - Kia Selley, Interim Director

SCHEDULES - ELECTRICAL
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin

10910 N Denver, Portland, OR 97217

DATE: 10.04.2019

SCALE: REFERENCE DETAILS

DRAWN BY:

Author

SECTION:

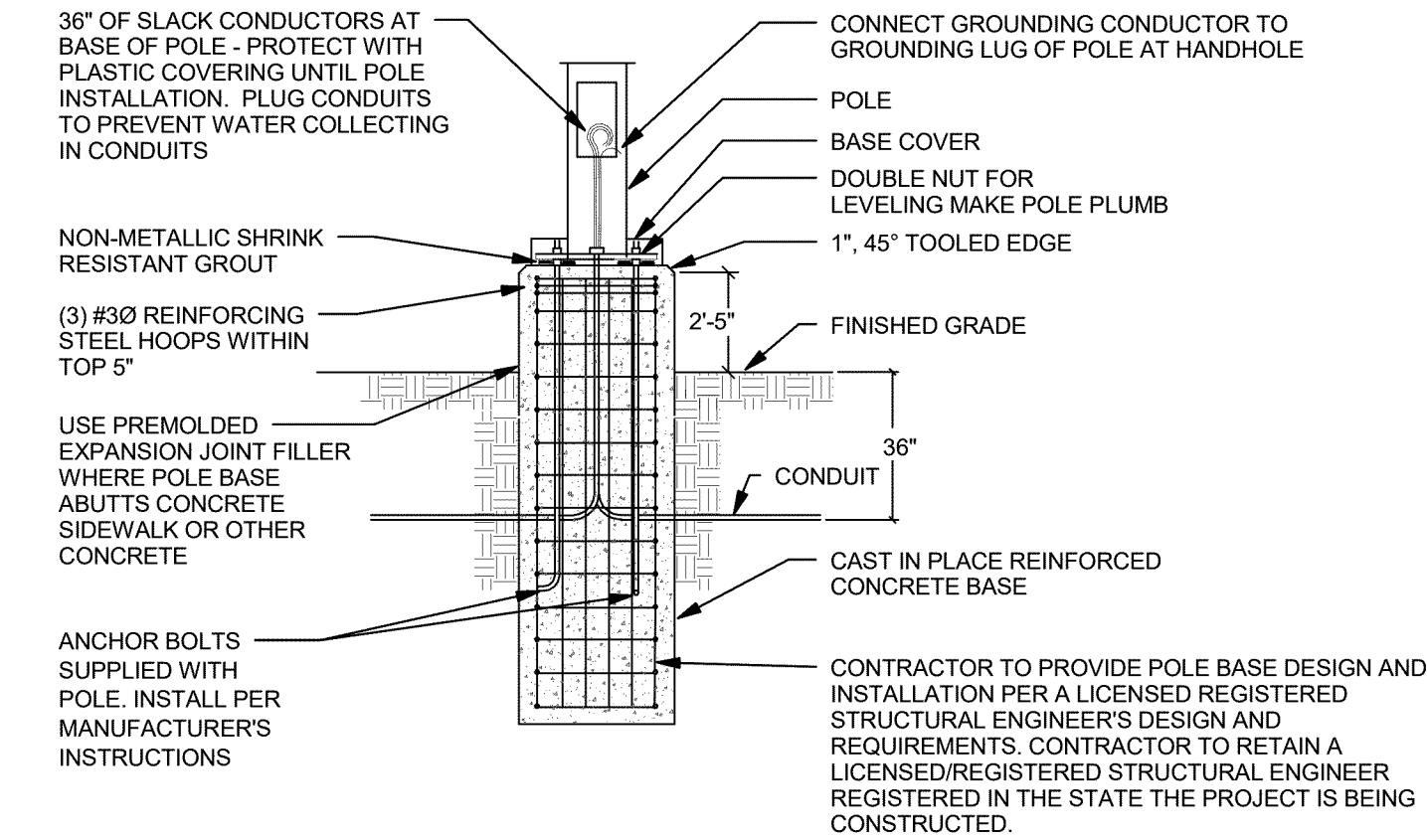
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PARKS
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BOND
2014

E6.02

Job No.
4655-01

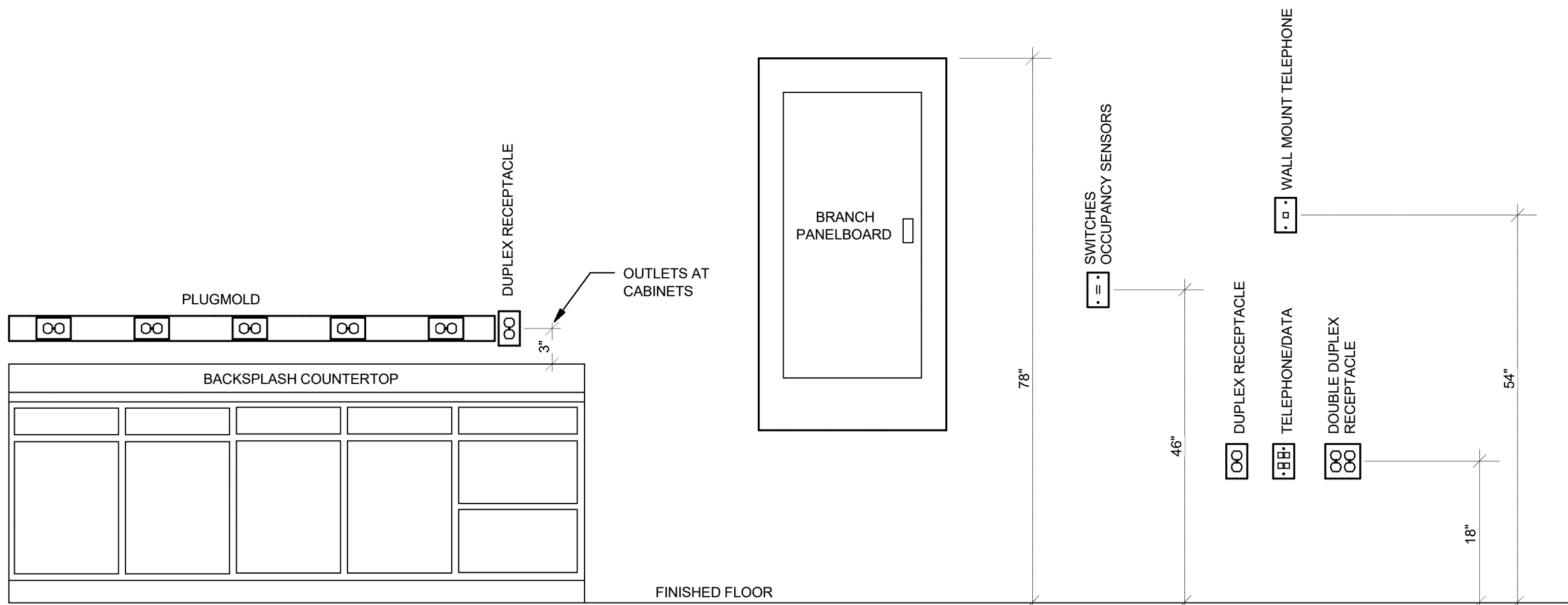


GENERAL DETAIL NOTES:

1. CONDUCTORS THROUGH POLE TO LUMINAIRE TO BE RATED 90° C
2. SEE LUMINAIRE SCHEDULE FOR POLE HEIGHT.

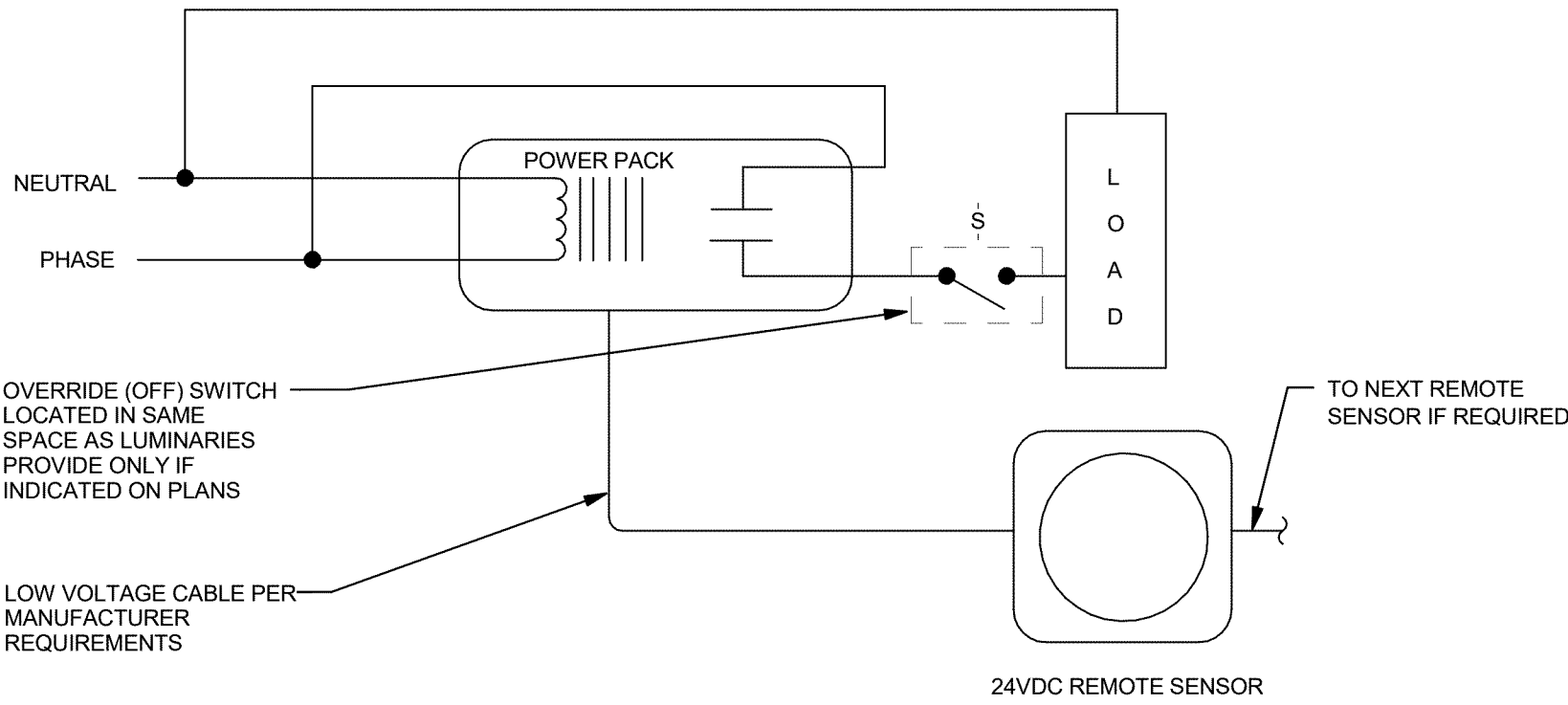
1 SECTION - AREA LUMINAIRE STANDARD PEDESTAL ANCHOR BASE

NO SCALE



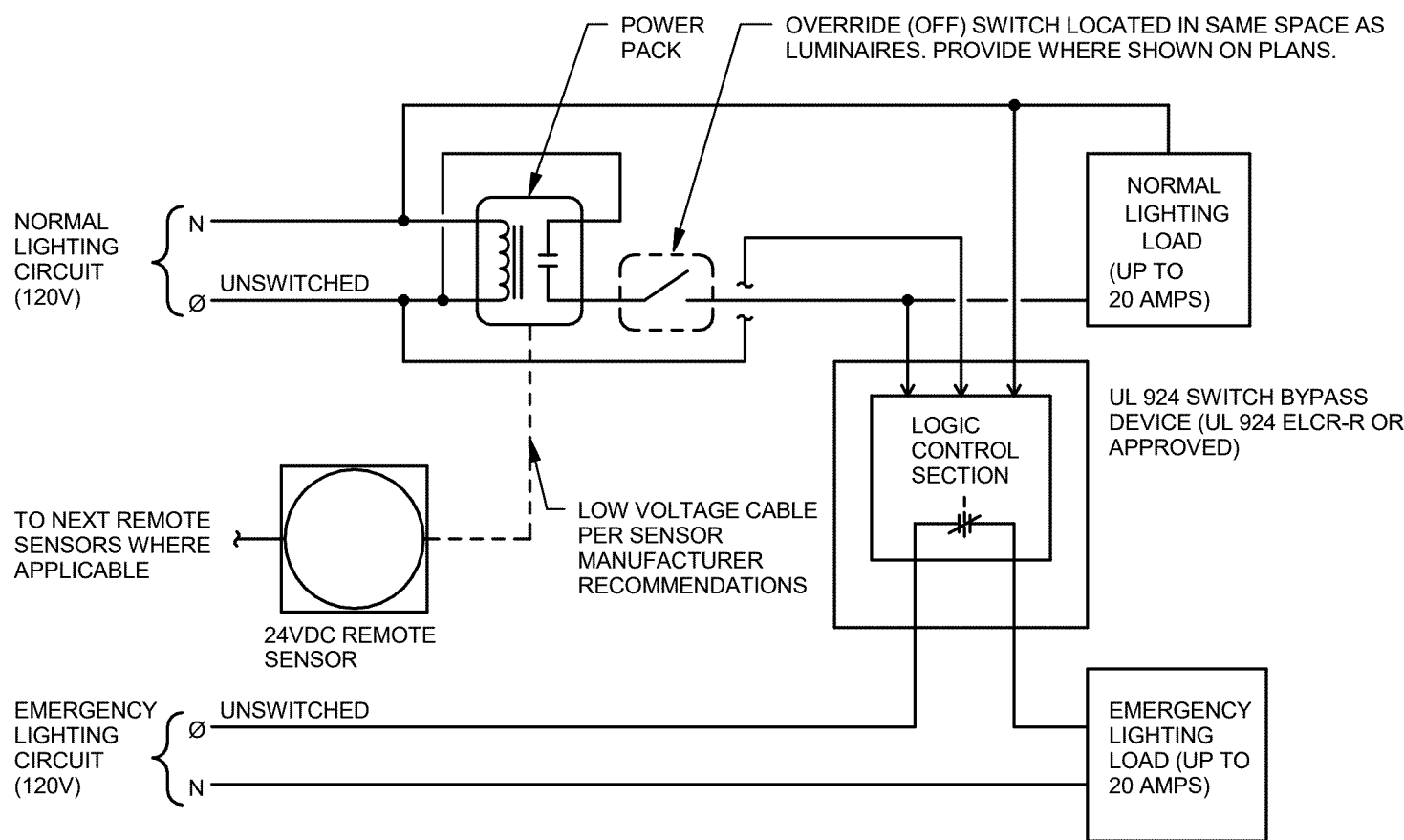
2 TYPICAL MOUNTING HEIGHTS

NO SCALE



3 CEILING MOUNTED OCCUPANCY SENSOR CONTROL DIAGRAM

NO SCALE



4 OCCUPANCY SENSOR/SWITCH BYPASS DEVICE EMERGENCY LIGHTING RELAY SCHEMATIC

NO SCALE

PROJECT 2016-0289
CONTACT Cody Bargholz

INTERFACE
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100 SW Main St.
Suite 1600
Portland, OR 97204
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FAX 503.382.2262
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NOTE:
SCALE INDICATED ON DRAWING
IS CORRECT IF DRAWING
BORDER IS 22" X 34".

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PARKS & RECREATION
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PORTLAND, OREGON 97209
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PERMIT / BID SET
10.04.2019

REGISTERED PROFESSIONAL ENGINEER
DAVID NORMAN CHESLEY
JULY 14, 1993
OREGON
EXPIRES: 12/31/19

Portland Parks and Recreation

Amanda Fritz, Commissioner - Kib Selley, Interim Director

DETAILS - ELECTRICAL
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin

10910 N Denver, Portland, OR 97217

DATE: 10.04.2019

SCALE: REFERENCE DETAILS

DRAWN BY: AJZ

SECTION:

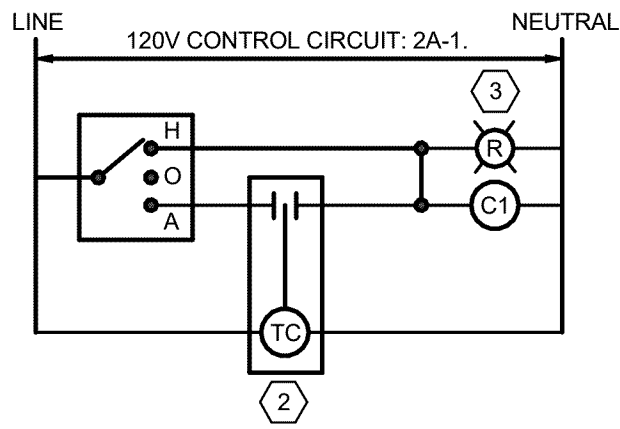
REVISIONS

DATE	DESCRIPTION	BY

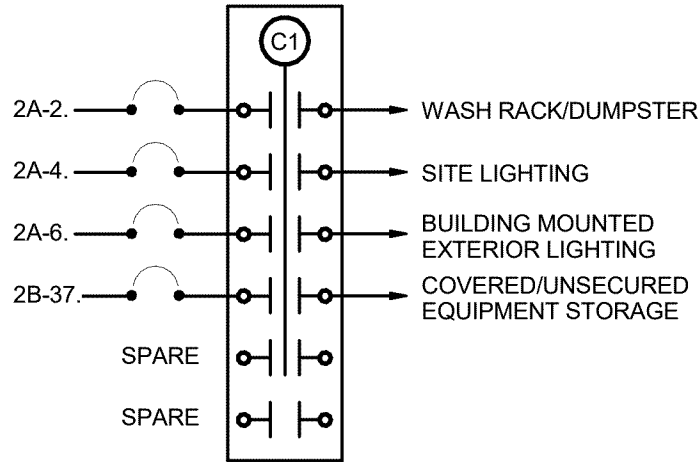
PARKS
REPLACEMENT
BOND
2014

E7.01

Job No.
4655-01

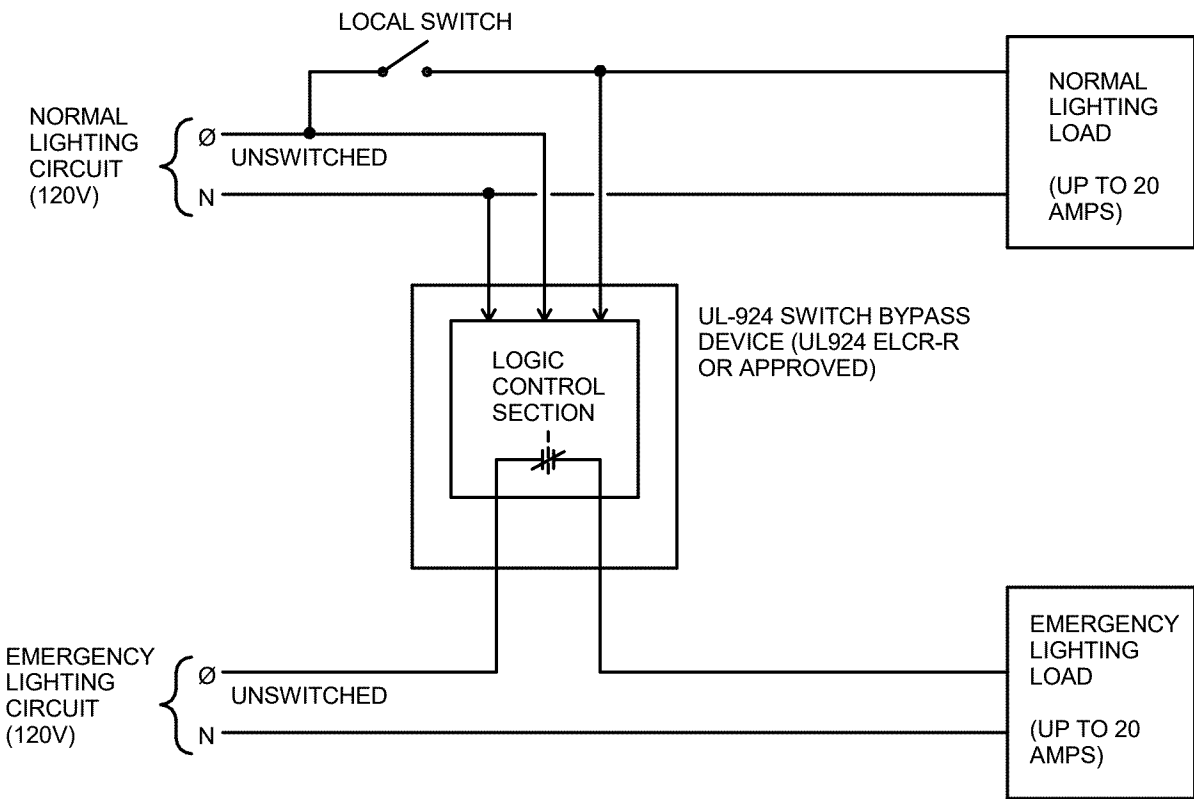


- DETAIL NOTES**
- 1 PROVIDE 2 N/O CONTACTS AS SPARE FOR FUTURE. CONTACTORS TO BE 120V, 20A RATED.
 - 2 TIMECLOCK TO BE INTERMATIC ET8215C.
 - 3 RED PILOT LIGHT MOUNTED ON 'HOA' ENCLOSURE.



1 EXTERIOR LIGHTING CONTROL SCHEMATIC

NO SCALE



2 SWITCH BYPASS DEVICE EMERGENCY LIGHTING RELAY SCHEMATIC

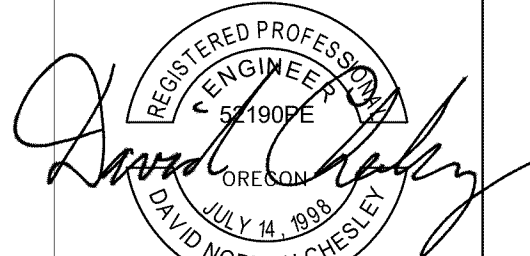
NO SCALE

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DATE: **10.04.2019** SCALE: REFERENCE DETAILS DRAWN BY: **Author** SECTION:

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DATE	DESCRIPTION	BY

