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PLOT DATE: 14 JUL 26

ENERGY NORTHWEST

EPU PARKING LOT

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), LOCAL RULES AND STANDARDS OF GOVERNING AGENCIES HAVING JURISDICTION.
2. PRIOR TO DIGGING VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL TWO BUSINESS DAYS BEFORE YOU DIG AT 811.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND/OR FIELD ERECTION. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR TO EXISTING UTILITIES.
4. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION WHICH WILL ALLOW FOR OWNER TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITH AS LITTLE DISRUPTION AS POSSIBLE.
5. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION OF OFF-SITE WORK THAT WILL ALLOW MINIMAL DISTURBANCE TO TRAFFIC FLOWS ON PUBLIC AND PRIVATE WAYS.
6. PRIOR TO BEGINNING WORK, CONTACT THE OWNER/CITY OR COUNTY OFFICIAL TO COORDINATE TRAFFIC FLOW, WORK SCHEDULES AND UTILITY INTERFACES.
7. ALL SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY HIRED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WITH INSPECTION AND TESTING AGENCY FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING.
8. ADA SIGNS, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE WASHINGTON STATE RULES AND REGULATIONS FOR BARRIER FREE DESIGN.
9. CONTRACTOR TO CONTRACT WITH A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE TO PROVIDE CONSTRUCTION STAKING SERVICES. ANY REQUIRED LEGAL DESCRIPTIONS FOR PUBLIC UTILITIES LOCATED ON-SITE OR OFF-SITE SHALL BE PROVIDED BY THE CONTRACTED SURVEYOR AND PAID BY THE CONTRACTOR.
10. TOPOGRAPHIC SURVEY PROVIDED BY AKS ENGINEERING & FORESTRY ON 05/2026.
11. COSTS FOR GENERAL CONSTRUCTION ITEMS WHICH ARE NOT SHOWN ON THESE DRAWINGS, BUT ARE NECESSARY AND NORMAL FOR COMPLETION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACTORS BID FOR THIS PROJECT.

EARTHWORK

1. ALL FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
2. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING.
3. PLACE LOAD BEARING BACKFILL IN LAYERS NOT MORE THAN 8" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN KIND ANY UTILITIES DISTURBED AND/OR DAMAGED DURING THE WORK.
5. EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND ELEVATIONS. EXCAVATE TRENCHES TO UNIFORM WIDTHS TO PROVIDE THE FOLLOWING CLEARANCE ON EACH SIDE OF PIPE OR CONDUIT. EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES HIGHER THAN TOP OF PIPE OR CONDUIT UNLESS OTHERWISE INDICATED.
6. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE INDICATED. SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS.

ASPHALT PAVEMENT

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS M41-10, SECTION 8-22. CONTRACTOR SHALL USE WSDOT APPROVED MATERIALS. PREPARE THE SURFACES, APPLY THE PAINT, AND BE WITHIN THE TOLERANCES AS SPECIFIED IN THE WSDOT STANDARD SPECIFICATIONS. DO NOT USE BEADED TOP COATING.
2. ASPHALT PLACEMENT SHALL BE IN ACCORDANCE WITH STATE OF WASHINGTON STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION M41-10, SECTION 5-04.
3. ASPHALT BINDER MATERIAL SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION M41-10, SECTION 9-02.1(4) EXCLUDING THE ELASTIC RECOVERY REQUIREMENTS. AGGREGATE SHALL BE CLASS 3/8" AND SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION M41-10 SECTIONS 9-03.8(1), (2), (3)A AND (3)B. BLENDING SAND SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION 9-03.8(4).
4. ALL ASPHALT AND BASE THICKNESSES NOTED ARE COMPACTED THICKNESS.
5. ONE DAY PRIOR TO PLACEMENT OF BITUMINOUS MATERIAL ON THE BASE, THE SURFACE SHALL BE STERILIZED WITH A SOIL HERBICIDE.

SITE UTILITIES

1. STORM DRAINAGE PIPE SHALL BE PVC OR CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE). PVC PIPE SHALL BE MANUFACTURED TO ASTM D3034-SDR 35 WITH RUBBER GASKETED JOINTS. HDPE PIPE (12"-60") SHALL BE SMOOTH INTERIOR, WATER TIGHT, AND MANUFACTURED TO ASTM F2306 AND ASTM D3212.
2. PERFORATED STORM DRAINAGE PIPE SHALL BE CORRUGATED POLYETHYLENE (PE) TUBING AND FITTINGS WITH SMOOTH INTERIOR MANUFACTURED TO ASHTO M-252 AND M-294.
3. ALL BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING. PLACE BACKFILL IN LAYERS NOT MORE THAN 12" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.

SPECIAL INSPECTION

1. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FILL IS COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY IN ACCORDANCE TO ASTM D1557.
2. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D1557, ASTM D2167, ASTM D2922, AND ASTM D2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:
   A. FOUNDATION, PAVING, AND ADJACENT: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 5,000 SQ. FT., OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 1 TEST PER DAY.
   B. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 1 TEST FOR EACH 150 FEET OR LESS OF TRENCH LENGTH, BUT NO LESS THAN 1 TEST PER DAY.

EROSION CONTROL

1. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST.
2. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
3. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE THEY ARE NO LONGER NEEDED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

STORMWATER NOTES

1. STORM DESIGN CRITERIA: 25 YEAR, 24-HOUR TYPE II SCS SYNTHETIC RAINFALL EVENT.
2. INFILTRATION RATE OF 2" INCHES/HOUR USED IN DESIGN OF INFILTRATION SYSTEMS. VERIFY INFILTRATION RATE PRIOR TO PURCHASE OF STORM DRAIN SYSTEM BY ON SITE TESTING APPROVED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RESULTS.
3. THE PROPOSED INFILTRATION TRENCH(ES) SHALL BE REGISTERED BY THE OWNER AS UNDERGROUND INJECTION CONTROL (UIC) WELL(S) WITH THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AFTER LOCAL AHJ APPROVAL AND 60 DAYS PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR ASSISTANCE AS NEEDED.



SITE MAP

ABBREVIATIONS

C/C	CENTER TO CENTER
COM	COMMUNICATIONS
CP	CONTROL PONT
EV	ELECTRIC VEHICLE
(E)	EXISTING
FG	FINISHED GRADE
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
NTS	NOT TO SCALE
PE	POLYETHYLENE
XXX.XX	SPOT ELEVATION
SD	STORM DRAIN
TA	TOP OF ASPHALT
TC	TOP OF CONCRETE
TG	TOP OF GRAVEL
TYP	TYPICAL

LEGEND

EXISTING	PROPOSED	
	▼	THRUST BLOCK
○	Ⓢ	STORM DRAIN MANHOLE
	■	CATCH BASIN
		TRANSFORMER
		JUNCTION BOX
		UTILITY POLE
		STREETLIGHT
	Ⓒ	VEHICLE CHARGING STATION
		SIGN
	●	BOLLARD
	→	FLOW ARROW
○	○	COMMUNICATIONS RISER
●	●	BUBBLER
●	●	SWALE OUTLET

DRAWING SHEETS

CIVIL

C001	COVER SHEET
C010	DEMO PLAN
C101	SITE PLAN
C111	GRADING PLAN
C121	UTILITY PLAN
C501	SECTIONS AND DETAILS

ELECTRICAL

E001	GENERAL NOTES AND LEGEND
ED100	SIRE DEMO PLAN
E101	SITE PLAN
E501	ENLARGED PLANS
E601	DETAILS
E602	DETAILS
E701	ONE-LINE DIAGRAM
E801	SCHEDULES
E802	PANEL SCHEDULES

REV	DATE	DESCRIPTION	DWN	CHK	ENGR

ENERGY NORTHWEST — FACILITIES & COMMERCIAL ENGINEERING

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CHECKED	GDF	07/14/2026
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SCALE AS NOTED		
SHEET SIZE 22x34		

EPU PARKING LOT
CIVIL
COVER SHEET

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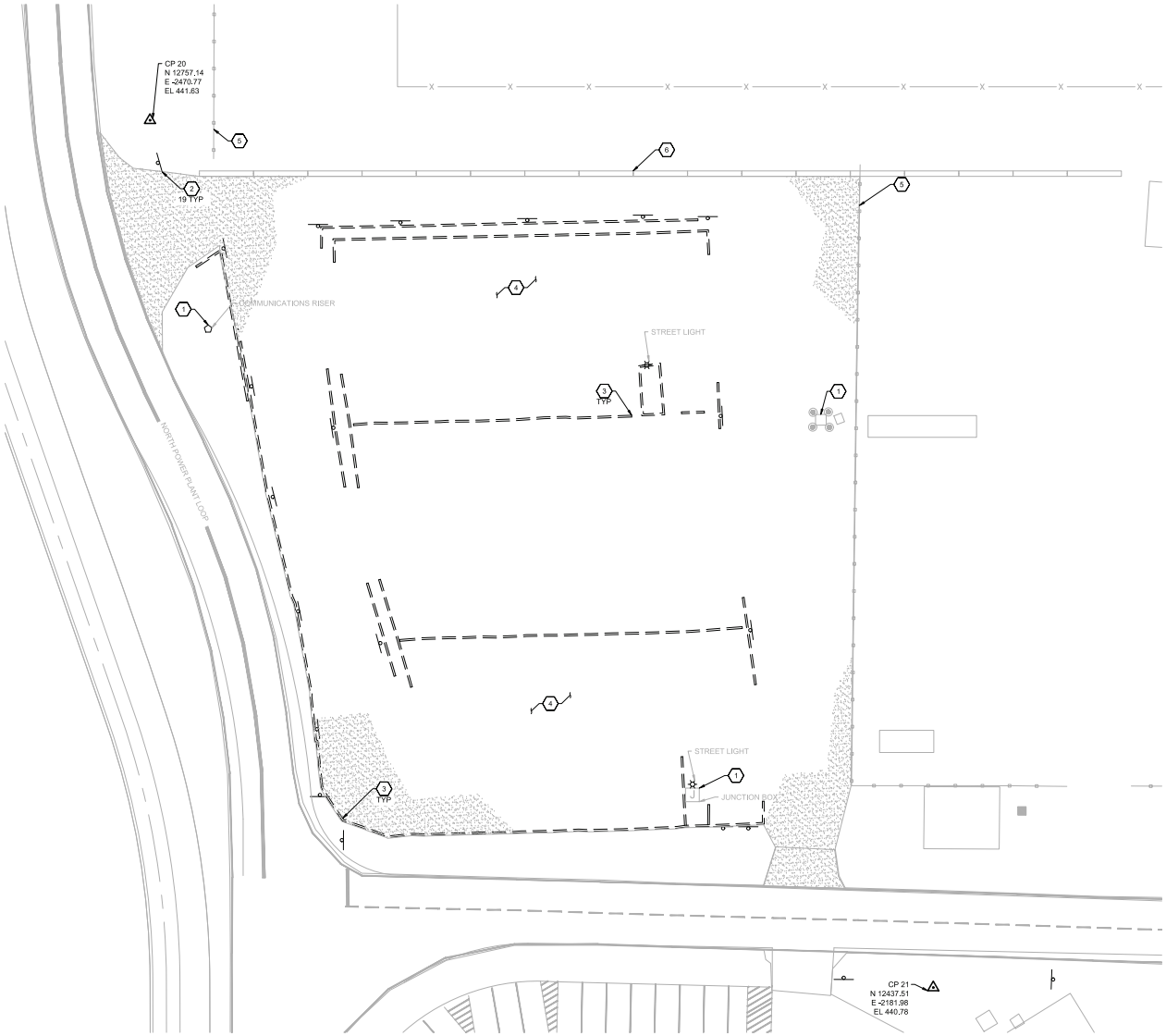
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NORTH

KEY NOTES

1. PROTECT EQUIPMENT IN PLACE.
2. REMOVE SIGNS AND RETURN TO OWNER.
3. REMOVE AND DISPOSE OF WOODEN PARKING BARRIERS.
4. REMOVE CRUSHED GRAVEL AND SALVAGE FOR PAVING BASE IF MATERIAL MEETS WSDOT 9-03.9(3) SPECIFICATION FOR CSTC.
5. PROTECT FENCE IN PLACE.
6. PROTECT K-RAIL IN PLACE.

NOTES

1. SEE C001 FOR GENERAL NOTES AND LEGEND.
2. STREET LIGHT AND ASSOCIATED CONDUIT AND CONDUCTOR REMOVAL ON ELECTRICAL PLANS.

ABBREVIATIONS

C/C	CENTER TO CENTER
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EV	ELECTRIC VEHICLE
(E)	EXISTING
FG	FINISHED GRADE
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IE	INVERT ELEVATION
NTS	NOT TO SCALE
PE	POLYETHYLENE
XXX.XX	SPOT ELEVATION
SD	STORM DRAIN
TA	TOP OF ASPHALT
TC	TOP OF CONCRETE
TG	TOP OF GRAVEL
TYP	TYPICAL

LEGEND

EXISTING	PROPOSED	
	▼	THRUST BLOCK
	◎	STORM DRAIN MANHOLE
	■	CATCH BASIN
	▲	TRANSFORMER
	▣	JUNCTION BOX
	◆	UTILITY POLE
☆	☆	STREETLIGHT
Ⓔ	Ⓔ	VEHICLE CHARGING STATION
▬	▬	SIGN
●	●	BOLLARD
→	→	FLOW ARROW
⬠	⬠	COMMUNICATIONS RISER
●	●	BUBBLER
●	✹	SWALE OUTLET

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG

0' 10' 20' 40' 60'
1" = 20'

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ENERGY NORTHWEST

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SHEET SIZE 22x34		

EPU PARKING LOT

CIVIL

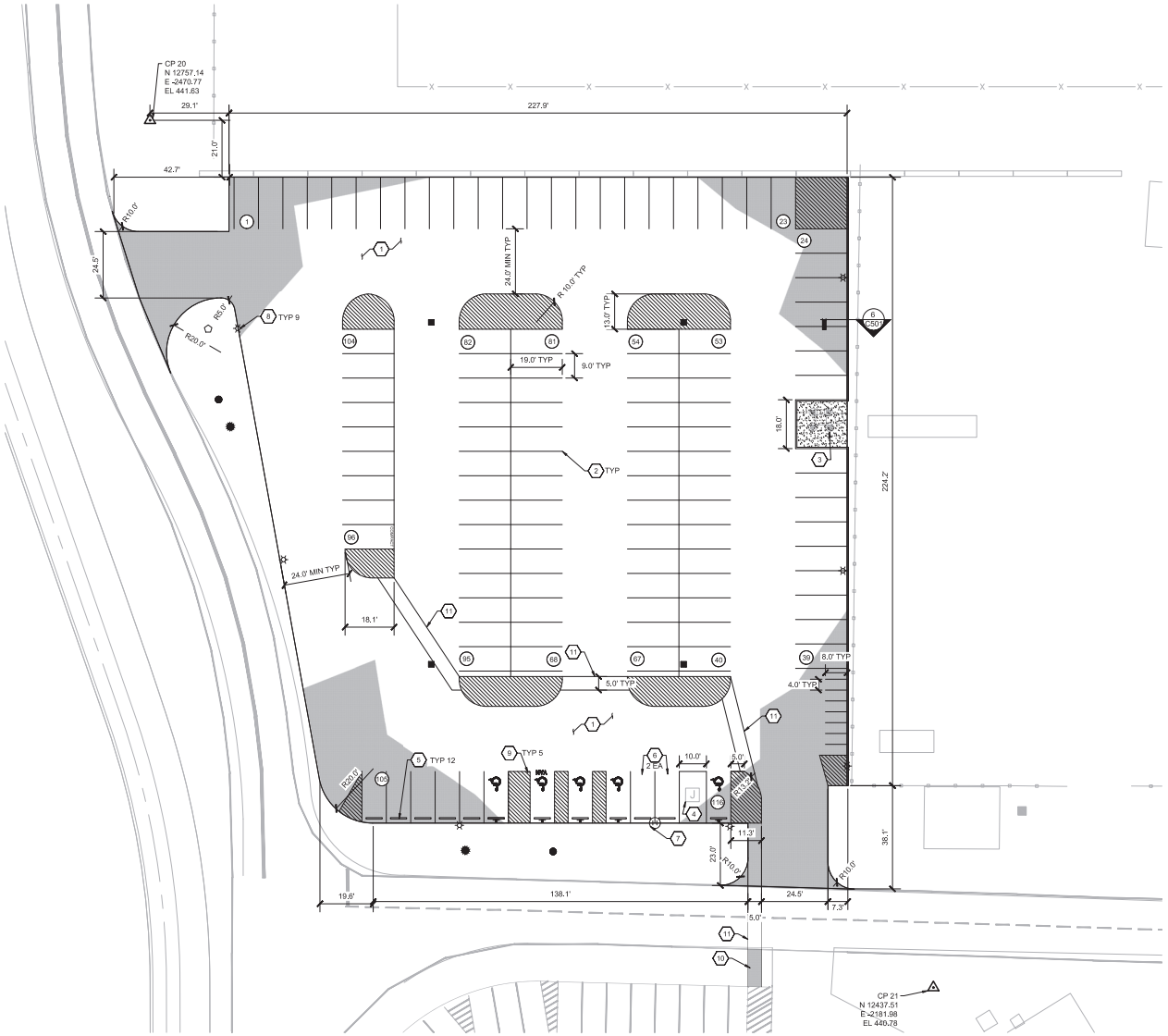
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NORTH

KEY NOTES

1. 2.5" THICK HOT MIX ASPHALT OVER 8" OF CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3).
2. PAINT WHITE 4" WIDE PARKING STRIPING.
3. RETAIN AREA SHOWN AROUND PROTECTED EQUIPMENT AS GRAVEL.
4. SLOPE ADJACENT ASPHALT TO MATCH LID ELEVATION OF JUNCTION BOX.
5. INSTALL WHEEL STOP PER DETAIL 2/C501.
6. SEE ELECTRICAL FOR DETAILS ON ELECTRIC CHARGING PAINT DETAIL.
7. SEE ELECTRICAL FOR ELECTRICAL CHARGING STATION DETAILS AND BOLLARDS.
8. INSTALL LIGHT POLE AND BASE, SEE ELECTRICAL FOR DETAILS.
9. INSTALL ADA PARKING STALLS AND SIGNAGE PER DETAILS 7/C501 AND 8/C501, RESPECTIVELY.
10. 2" THICK HOT MIX ASPHALT OVER 6" OF CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3).
11. PROVIDE WHITE 4" WIDE STRIPING TO DEMARCATE BOUNDARIES OF CROSSWALK AREAS AS SHOWN.

NOTES

1. SEE C001 FOR GENERAL NOTES AND LEGEND.
2. PARKING STALL COUNT IS 116. MINIMUM OF 5 ADA STALLS IS REQUIRED WITH ONE DESIGNATED AS VAN ADA STALL.

ABBREVIATIONS

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LEGEND

EXISTING	PROPOSED	
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	◎	STORM DRAIN MANHOLE
	■	CATCH BASIN
	▲	TRANSFORMER
	JB	JUNCTION BOX
	◆	UTILITY POLE
	☆	STREETLIGHT
	EV	VEHICLE CHARGING STATION
	▬	SIGN
	●	BOLLARD
	→	FLOW ARROW
	⬠	COMMUNICATIONS RISER
	●	BUBBLER
	✹	SWALE OUTLET

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EPU PARKING LOT

CIVIL

SITE PLAN

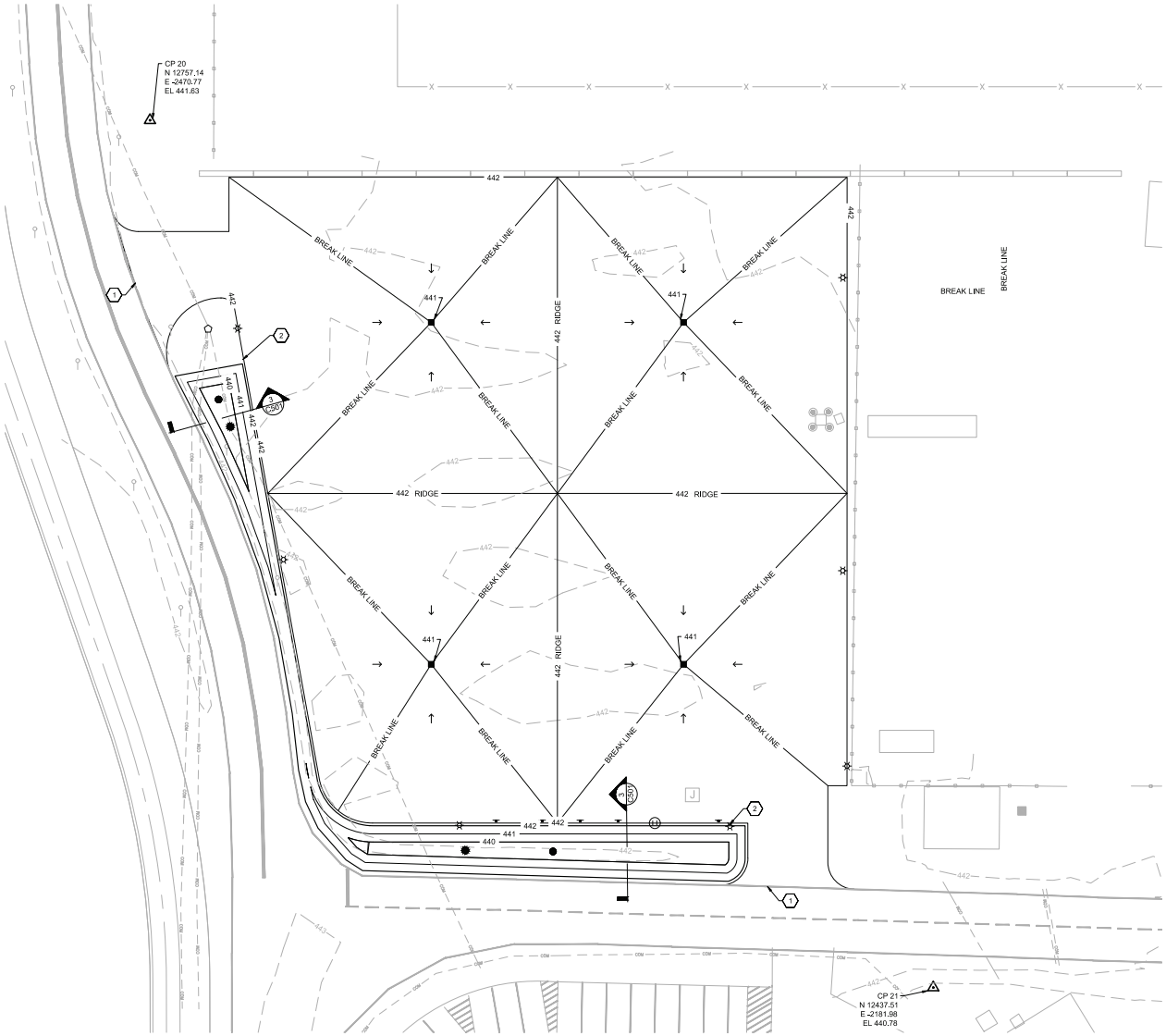
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NORTH

KEY NOTES

1. MEET AND MATCH ELEVATION.
2. PROVIDE BUFFER WIDTH OF 0.5' BETWEEN EDGE OF ASPHALT AND TOP OF SLOPE.

NOTES

1. SEE C001 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR TO VERIFY LOCATION OF UTILITY LINES.
3. CONTRACTOR TO PROTECT COM LINES DURING CONSTRUCTION AND MAINTAIN 30 INCH OF SOIL COVER.
4. ASPHALT TO HAVE A MINIMUM OF 1% SLOPE AND A MAXIMUM OF 5% SLOPE.

ABBREVIATIONS

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LEGEND

EXISTING	PROPOSED	
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		STORM DRAIN MANHOLE
		CATCH BASIN
		TRANSFORMER
		JUNCTION BOX
		UTILITY POLE
		STREETLIGHT
		VEHICLE CHARGING STATION
		SIGN
		BOLLARD
		FLOW ARROW
		COMMUNICATIONS RISER
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EPU PARKING LOT

CIVIL

GRADING PLAN

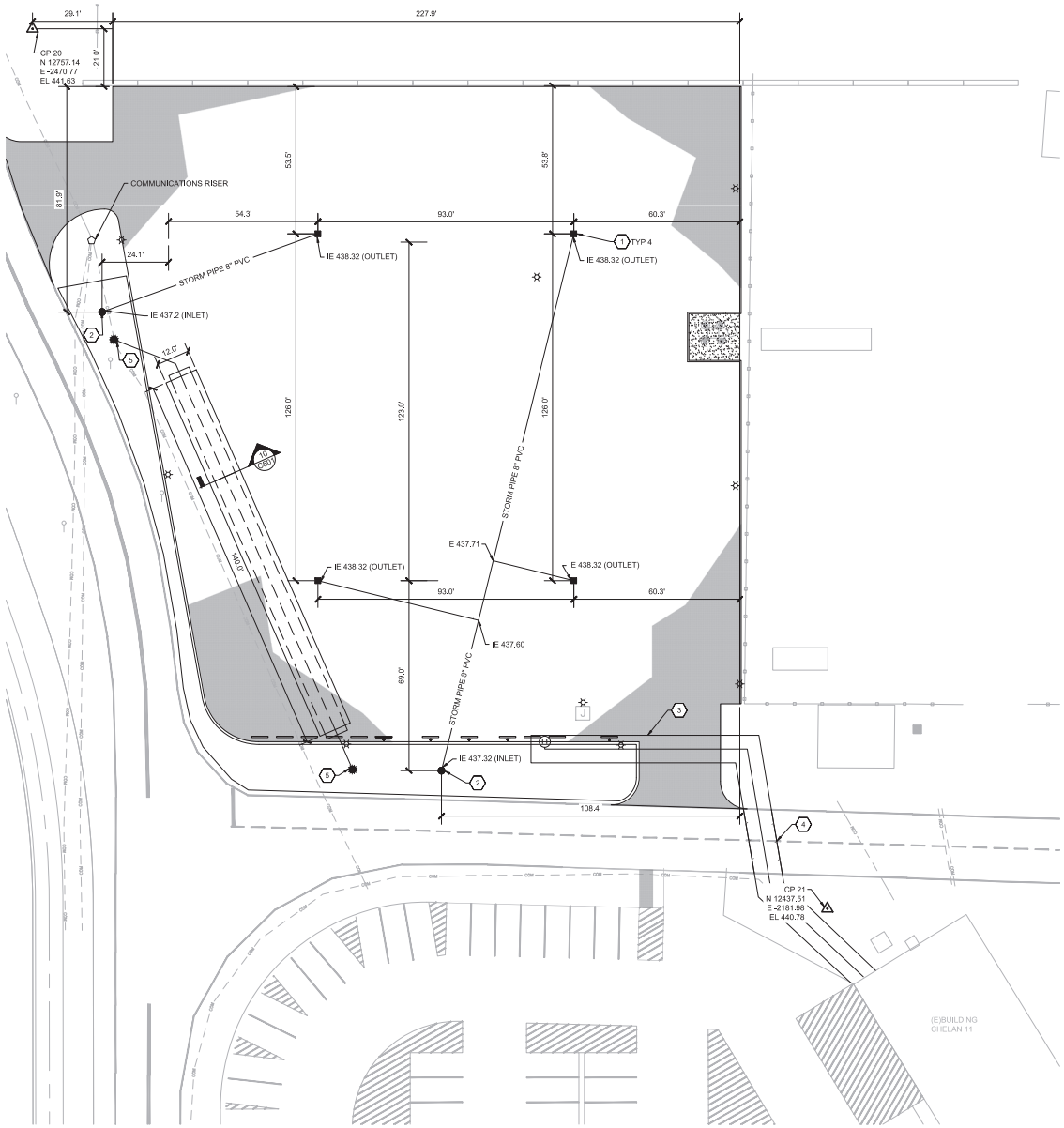
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KEY NOTES

1. INSTALL CATCH BASIN PER DETAIL 1/C501.
2. INSTALL BUBBLER PER DETAIL 4/C501.
3. TRENCH ELECTRICAL FROM CHELAN 11 BUILDING TO NEW EV CHARGING STATION PER DETAIL 5/C501.
4. SAWCUT ROAD FOR ELECTRICAL TRENCH. BACK FILL TO MATCH EXISTING AND REPLACE ASPHALT.
5. PROVIDE SWALE OUTLET STRUCTURES AND CONNECT TO SHARED INFILTRATION TRENCH.

NOTES

1. SEE C001 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR TO VERIFY EXISTING UTILITY LOCATION.
3. CONTRACTOR TO PROTECT COM LINES DURING CONSTRUCTION AND MAINTAIN 30 INCH OF SOIL COVER.
4. ALL STORM PIPING SHALL BE 8" DIAMETER AND SLOPED TO DRAIN TO BUBBLERS AT 0.5% MINIMUM UNLESS NOTED OTHERWISE.

ABBREVIATIONS

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LEGEND

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		STORM DRAIN MANHOLE
		CATCH BASIN
		TRANSFORMER
		JUNCTION BOX
		UTILITY POLE
		STREETLIGHT
		VEHICLE CHARGING STATION
		SIGN
		BOLLARD
		FLOW ARROW
		COMMUNICATIONS RISER
		BUBBLER
		SWALE OUTLET

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EPU PARKING LOT

CIVIL

UTILITY PLAN

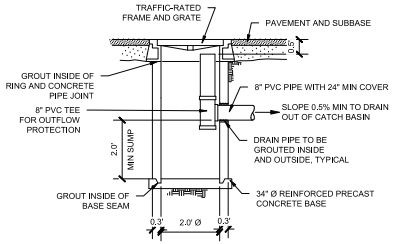
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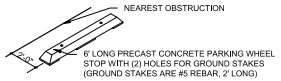
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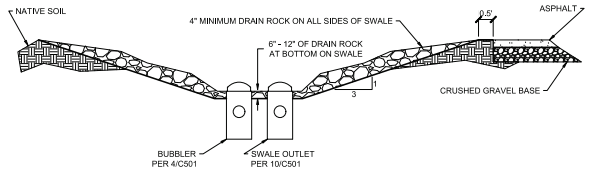
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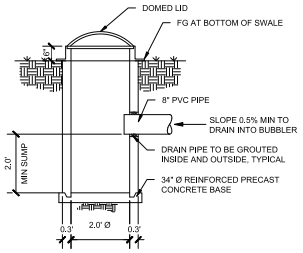
1 C121 CATCH BASIN
NTS



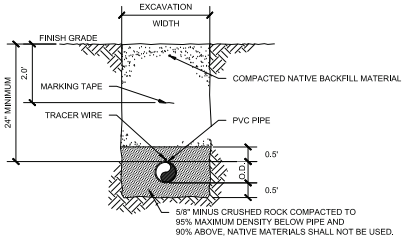
2 C101 WHEEL STOP
NTS



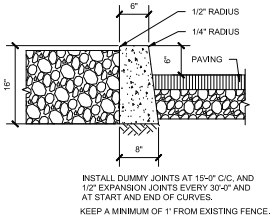
3 C111 SWALE CROSS SECTION
NTS



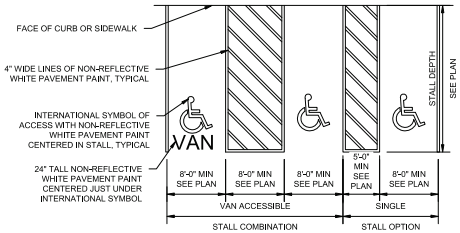
4 C121 BUBBLER
NTS



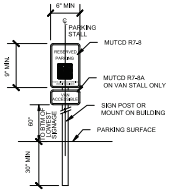
5 C121 TRENCH
NTS



6 C101 CURB
NTS



7 C101 ADA PARKING STALL
NTS



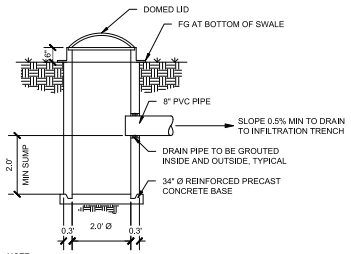
8 C101 ADA SIGN
NTS

ABBREVIATIONS

C/C	CENTER TO CENTER
COM	COMMUNICATIONS
CP	CONTROL PONT
EV	ELECTRIC VEHICLE
(E)	EXISTING
FG	FINISHED GRADE
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
NTS	NOT TO SCALE
PE	POLYETHYLENE
XXX.XX	SPOT ELEVATION
SD	STORM DRAIN
TA	TOP OF ASPHALT
TC	TOP OF CONCRETE
TG	TOP OF GRAVEL
TYP	TYPICAL

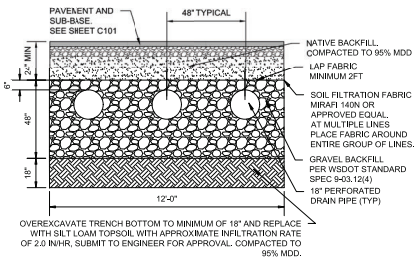
LEGEND

EXISTING	PROPOSED
	THRUST BLOCK
	STORM DRAIN MANHOLE
	CATCH BASIN
	TRANSFORMER
	JUNCTION BOX
	UTILITY POLE
	STREETLIGHT
	VEHICLE CHARGING STATION
	SIGN
	BOLLARD
	FLOW ARROW
	COMMUNICATIONS RISER
	BUBBLER
	SWALE OUTLET



NOTE:
CONNECT AND ADAPT TO 18" PERFORATED PIPE AT INFILTRATION TRENCH AS SHOWN ON PLAN

9 C121 SWALE OUTLET
NTS



OVEREXCAVATE TRENCH BOTTOM TO MINIMUM OF 18" AND REPLACE WITH SILT LOAM TOPSOIL WITH APPROXIMATE INFILTRATION RATE OF 2.0 IN/HR, SUBMIT TO ENGINEER FOR APPROVAL. COMPACTED TO 95% MDD.

10 C121 INFILTRATION TRENCH
NTS

REV	DATE	DESCRIPTION	DWN	CHK	ENGR

ENERGY NORTHWEST
FACILITIES & COMMERCIAL ENGINEERING

SIGNATURE		DATE
APPROVED	AEB	07/14/2026
DESIGN	EAC	07/14/2026
CHECKED	GDF	07/14/2026
DRAWN	EAC	07/14/2026
SCALE AS NOTED		
SHEET SIZE 22x34		

EPU PARKING LOT
CIVIL
SECTIONS AND DETAILS

CAD FILE NO. 954300~C501.dwg | SHEET NO. C501 | REV.

STATE OF WASHINGTON
ANTHONY E. COOK
42
REGISTERED PROFESSIONAL ENGINEER
26.07.14
16:55:39-07'00

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PLOT DATE: 02 JUL 26

FILE PATH: G:\PROJECTS\9500\9543 EPU Parking Lot\DWG\954300E001

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (SIMILAR FOR 2P, 3P, 4P, ETC.)	J-BOX	JUNCTION BOX
A/AMP	AMPERE	KV	KILOVOLT
ADA	AMERICANS WITH DISABILITIES ACT	KVA	KILOVOLT-AMPERE
ADJ	ADJACENT	KW	KILOWATT
AF	AMPERE FRAME	L	LENGTH
AFF	ABOVE FINISHED FLOOR	LT	LIGHT
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AHJ	AUTHORITY HAVING JURISDICTION	LV	LOW VOLTAGE
AIR	AMPERE INTERRUPTING RATING	MC	MECHANICAL CONTRACTOR
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
ALT	ALTERNATE	MDF	MAIN DISTRIBUTION FRAME
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MMS	MANUAL MOTOR STARTER
C	CONDUIT	MTS	MANUAL TRANSFER SWITCH
CAT	CATEGORY	N	NORTH
CB	CIRCUIT BREAKER	N/A	NOT APPLICABLE
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CLR	CLEAR	NFPA	NATIONAL FIRE PROTECTION AGENCY
CMIL	CIRCULAR MILS	NTS	NOT TO SCALE
COL	COLUMN	OCC	OCCUPANCY
CONN	CONNECTION	OD	OVERHEAD DATA
CONT	CONTINUE, CONTINUOUS	OE	OVERHEAD ELECTRICAL
COORD	COORDINATE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED, OWNER INSTALLED
CU	COPPER	OH	OVERHEAD
DEG	DEGREE	OPP	OPPOSITE
DEMO	DEMOLISH, DEMOLITION	PB	PULL BOX
DEPT	DEPARTMENT	PDZ	PRIMARY DAYLIGHT ZONE
DIA	DIAMETER	PH	PHASE
DIM	DIMENSION/DIMENSIONS	PNL	PANEL
DIV	DIVISION	PP	POWER POLE
DTL	DETAIL	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PWR	POWER
(E)	EXISTING	QTY	QUANTITY
EA	EACH	RCPT	RECEPTACLE
EC	ELECTRICAL CONTRACTOR	REF	REFRIGERATOR
ELEC	ELECTRICAL	REQ	REQUIREMENT
EM	EMERGENCY	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	RGS	RIGID STEEL CONDUIT
ENGR	ENGINEER	RTU	ROOFTOP UNIT
ENW	ENERGY NORTHWEST	S	SOUTH
EQP	EQUIPMENT	SCHED	SCHEDULE
EXT	EXTERIOR	SECT	SECTION
FC	FOOTCANDLE / FAN COIL	SHT	SHEET
FLR	FLOOR	SP	SPARE
FT	FEET/FOOT	SPEC	SPECIFIED OR SPECIFICATION
FU	FUSE	STOR	STORAGE
GALV	GALVANIZED	SW	SWITCH
GC	GENERAL CONTRACT(OR)	SYS	SYSTEM
GCS	GALVANIZED CARBON STEEL	TBD	TO BE DETERMINED
GEC	GROUNDING ELECTRODE CONDUCTOR	TBR	TO BE REMOVED
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER	TEMP	TEMPORARY
GFP	GROUND FAULT PROTECTION	TYP	TYPICAL
GND	GROUND	UE	UNDERGROUND ELECTRICAL
GRC	GALVANIZED RIGID STEEL (CONDUIT)	UG	UNDERGROUND
H	HIGH/HEIGHT	UH	UNIT HEATER
HADO	HANDICAP ACCESS DOOR OPENER	UTIL	UTILITY
HP	HORSEPOWER / HEAT PUMP	V	VOLT, VOLTAGE
HTG	HEATING	VA	VOLT-AMPERES
HTR	HEATER	VAC	ALTERNATING CURRENT (AC) VOLTAGE
HV	HIGH VOLTAGE	VEST	VESTIBULE
IBC	INTERNATIONAL BUILDING CODE	W	WIDE/WEST
IDF	INTERMEDIATE DISTRIBUTION FRAME	W/	WITH
IFC	INTERNATIONAL FIRE CODE	W/O	WITHOUT
IN	INCH/INCHES	WAC	WASHINGTON ADMINISTRATIVE CODE
INFO	INFORMATION	WP	WATERPROOF/ WEATHERPROOF
INST	INSTALLED	WR	WEATHER RESISTANT
		WSEC	WASHINGTON STATE ENERGY CODE
		#	NUMBER
		'	FEET
		"	INCHES
		@	AT
		Ø	PHASE

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SURFACE (WALL SCONCE, EM)
	SURFACE (STRIP, EM)
	SURFACE (1X4 PENDANT, EM)
	SURFACE (1X4 LINEAR, EM)
	RECESSED (1X4 TROFFER, EM)
	RECESSED (DOWNLIGHT, EM)
	SWITCH (TYPE DENOTED)
	RECEPTACLE 2x (BASE, CONTROL, GFCI, SWITCHED)
	RECEPTACLE 4x (BASE, CONTROL, GFCI, SWITCHED)
S OS P HTC	SENSOR (LIGHT, OCCUPANCY, PHOTOCELL, TIME CLOCK)
	JUNCTION BOX (CEILING, FLOOR, WALL)
	SPECIAL CONNECTION (CEILING, FLOOR, WALL)
	CIRCUIT BREAKER PANEL (NEW, EXISTING)
	METER (NEW, EXISTING)
	POWER DISTRIBUTION (NEW, EXISTING)
P	POWER POLE (NEW, EXISTING)
	HANDHOLE (1x1.5, 2x3)
	SYSTEMS (DATA: CEILING, FLOOR, WALL)
FP	SYSTEMS (WIRELESS ACCESS, FIRE ALARM PULL)
	EGRESS (BUG EYE, EXIT SIGN WITH BUG EYE)
	EGRESS (WALL LEFT-RIGHT, CEILING 2-WAY LEFT-RIGHT)
	1-LINE (FUSED DISCONNECT, CIRCUIT BREAKER)
M	1-LINE (GROUNDING, MOTOR)
M	1-LINE (METER, TRANSFORMER)
	1-LINE (DISCONNECT: NON-FUSED, FUSED)
#	KEY NOTE (SEE SHEETS)
	HALFTONE SYMBOL INDICATES EXISTING
	HATCHED SYMBOL INDICATES TO BE DEMOLISHED

SITE PLAN GENERAL NOTES

1 ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
2 ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

SINGLE LINE GENERAL NOTES

1 OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
2 CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
3 REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
4 ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5 REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EQ".
6 GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

ELECTRICAL SYMBOL NOTES

THE LIGHTING FIXTURE TYPE IS INDICATED BY ONE OR MORE UPPER CASE LETTER/S. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

RA b EXAMPLE: LIGHTING FIXTURE TYPE "RA" IS CONNECTED CONTROLLED BY SWITCH "b".

d THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

T-1 TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE ONE-LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

PANEL A PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

(#) SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON.

PANEL A: 1,3,5 HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN PRIOR TO THE CIRCUIT DESIGNATION. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD PANEL A, CIRCUITS 1, 3, 5.

DEMOLITION GENERAL NOTES

1 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
2 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
3 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
4 FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
5 FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
6 DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
7 DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
8 FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

GENERAL ELECTRICAL NOTES

1 ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
2 COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
3 VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
4 CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
5 CONTRACTOR SHALL INCREASE CONDUCTOR AND CORRESPONDING CONDUIT SIZE FOR VOLTAGE DROP WHERE NOMINAL LENGTH DROPS LOAD SIDE VOLTAGE BELOW VALUES OUTLINED IN THE PREFERRED CODE OF THE AHJ.
6 DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER AND SHALL BE UNDERSTOOD AS ONE. IN THE EVENT OF A CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. IF A CONFLICT CANNOT BE RESOLVED IN THIS MANNER, IT SHALL BE REFERRED TO THE ENGINEER FOR RESOLUTION.
7 ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR, PROVIDE AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.
8 THE INFORMATION SHOWN ON THE DRAWINGS IS FOR DESIGN PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR FIELD ROUTING ALL CIRCUITS AND CONDUIT. THEY MAY NOT BE SHOWN IN EXACT LOCATIONS OR WITH ALL ANCILLARY ITEMS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE ROUTING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY POSSIBLE WHILE ADHERING AS CLOSELY TO THE DRAWINGS AS POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. IN THE EVENT A CONFLICT ARISES WHICH CANNOT BE RESOLVED IN THE FIELD, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. INCLUDE PROPOSED SOLUTION AND COST/TIME IMPACT IF POSSIBLE.
9 DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY MEIER ARCHITECTURE ENGINEERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.
10 CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS, CONSTRUCTION CONDITIONS AND PROCEDURES. FIELD VERIFY ALL PANEL LOADING AND CIRCUITS PRIOR TO ANY DEMOLITION ACTIVITIES. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEER'S APPROVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SYSTEMS GENERAL NOTES

1 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, EXCEPT ITEMS LISTED ON SHEET E001 GENERAL ELECTRICAL NOTES & LEGEND.

SPECIFIC CODE NOTES

1 PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
2 CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
3 OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
4 PROVIDE COMMISSIONING OF ALL ELECTRICAL SYSTEMS (RECEPTACLES, TRANSFORMERS, MOTORS, VERTICAL AND HORIZONTAL TRANSPORTATION) AND AUTOMATIC LIGHTING CONTROL SYSTEMS WHERE REQUIRED BY WASHINGTON STATE ENERGY CODE (WSEC). FURNISH COMMISSIONING REPORT AS PART OF CLOSEOUT DOCUMENTS ALONG WITH WSEC LIGHTING COMPLIANCE FORMS AND CALCULATIONS THAT DOCUMENT ALL INTERIOR AND EXTERIOR LIGHTING AREA AND/OR SURFACE TYPES, LIGHTING POWER ALLOWANCES, AND INSTALLED DENSITIES.

LIGHTING GENERAL NOTES

1 ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
2 SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
3 PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
4 MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
5 CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

POWER GENERAL NOTES

1 PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
2 WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
3 MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
4 CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

DRAWING LIST

NO.	DESCRIPTION
E001	GENERAL NOTES AND LEGEND
ED100	SITE DEMOLITION PLAN
E101	SITE PLAN
E501	ENLARGED PLANS
E601	DETAILS
E602	DETAILS
E701	ONE-LINE DIAGRAM
E801	SCHEDULES
E802	PANEL SCHEDULES

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
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ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

SIGNATURE		DATE
APPROVED	DJB	07/02/26
DESIGN	XY	07/02/26
CHECKED	DJB	07/02/26
DRAWN	XY	07/02/26
SCALE AS NOTED		
OLD FILE/DRAWING NO.		954300E001

COLUMBIA GENERATING STATION

EPU PARKING LOT

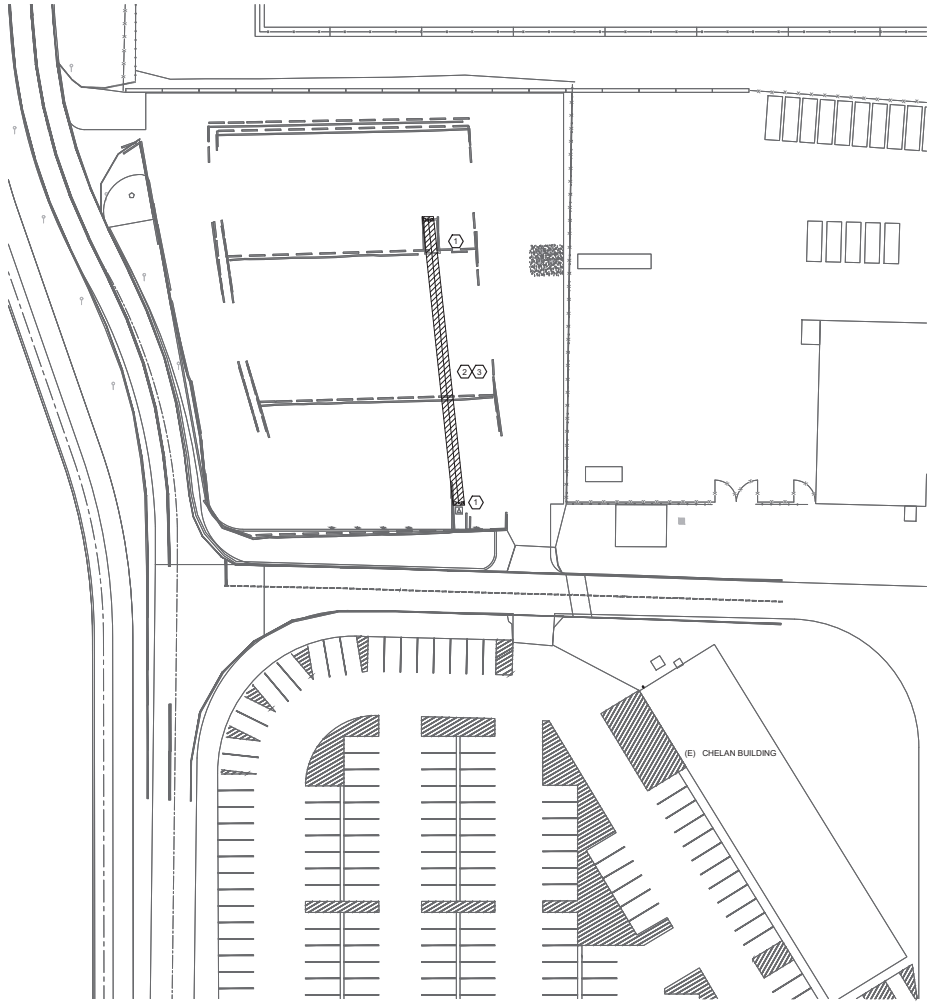
ELECTRICAL

GENERAL NOTES AND LEGEND

CAD FILE NO.	SHEET NO.	REV.
954300E001	E001	0

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PLOT DATE: 02 JUL 26



SITE DEMO PLAN
1/32" = 1'-0"

NORTH

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

KEY NOTES (N)

1. REMOVE EXISTING LIGHT POLE AND LIGHT FIXTURES IN PARKING LOT. PRESERVE LED LIGHTS ON THE SOUTH POLE FOR REUSE ON NEW LIGHT POLES. COORDINATE WITH OWNER FOR DISPOSAL OF OTHER REMOVED ITEMS.
2. REMOVE EXISTING CONDUIT BETWEEN TWO LIGHT POLES AND CAP CONDUIT UNDERGROUND NEAR THE SOUTH LIGHT POLE FOR POSSIBLE FUTURE REUSE.
3. REMOVE EXISTING CONDUCTOR FROM PANEL TO EXISTING LIGHT POLES. ADD PULL TAPE IN REMAINING CONDUIT FOR POSSIBLE FUTURE REUSE.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
-	-	-	-	-	-

ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

SIGNATURE		DATE
APPROVED	DJB	07/02/26
DESIGN	XY	07/02/26
CHECKED	DJB	07/02/26
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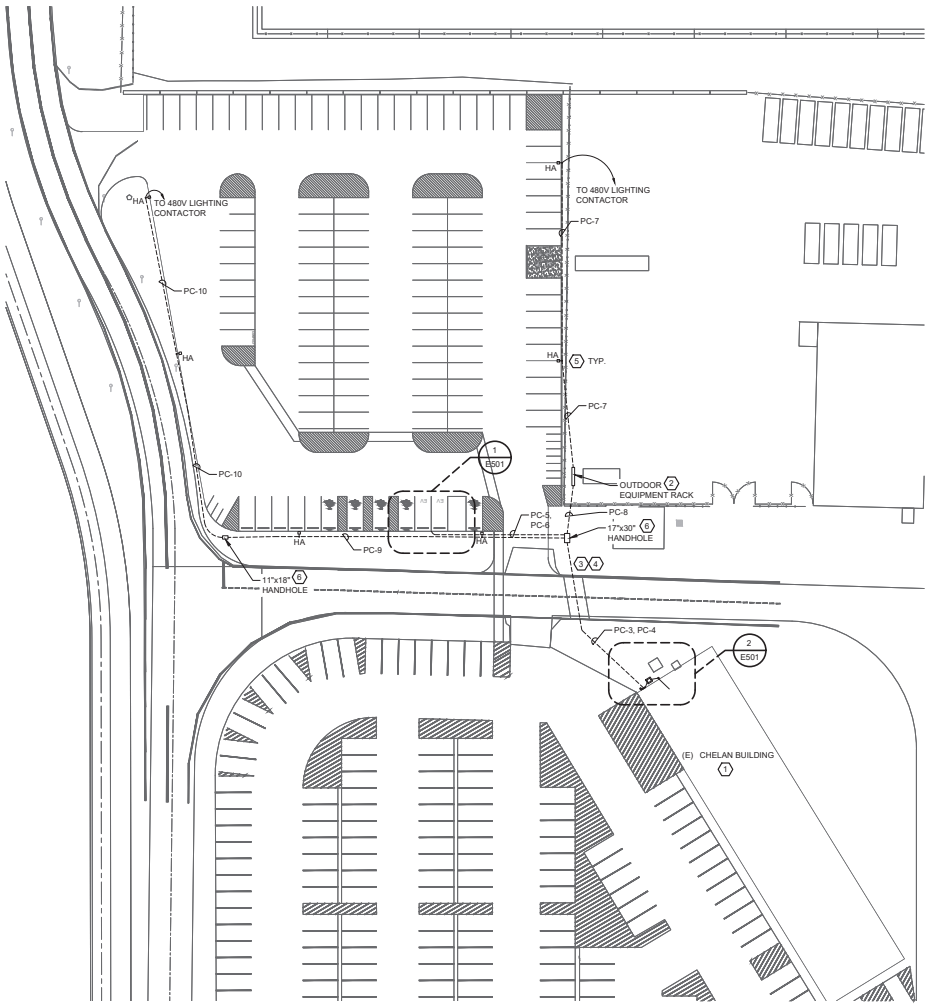
COLUMBIA GENERATING STATION
EPU PARKING LOT
ELECTRICAL
SITE DEMO PLAN

CAD FILE NO.	SHEET NO.	REV.
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PLOT DATE: 02 JUL 26



SITE PLAN
1/32" = 1'-0"

NORTH

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

KEY NOTES (#)

1. ELECTRICAL CONTRACTOR SHALL CONFIRM PANEL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. ELECTRICAL CONTRACTOR SHALL LOCATE 480V 30A DISCONNECT AND CONTACTOR BOX ON EQUIPMENT RACK PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL CONFIRM TRENCHING LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL UTILIZE VAC TRUCK FOR REMOVAL OF EXISTING LANDSCAPING/SOIL FOR NEW TRENCH.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE LIGHT POLE BASE AT EACH NEW LIGHT POLE. SEE SHEET E601 DETAIL 6 FOR MORE INFORMATION.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 11"x18" AND ONE 17"x30" ANSI 77 TIER 8 RATED HAND HOLES.

COPPER FEEDER SCHEDULE

KEY	QTY. OF RUNS	CONDUCTORS	C (IN)
20A2G	1	2#12,1#12G	3/4
50A2G	1	2#6,1#10G	1
125A3G	1	3#1/0,1#6G	2
225A3G	1	3#4/0,1#4G	2-1/2

REFER TO SPECIFICATIONS AND NATIONAL ELECTRICAL CODE FOR INSTALLATION OF CONDUIT TYPE. ALL CONDUCTORS ARE COPPER.

SITE CONDUIT SCHEDULE

ID	QTY	SIZE (IN)	FROM	TO	CONTENTS	NOTES
PC-1	1	2	DP 24MDP1-011-1B6	TRANSFORMER XT-EV	125A3G	
PC-2	1	2-1/2	TRANSFORMER XT-EV	PANEL P6	225A3G	
PC-3	1	1	PANEL P6	SE HAND HOLE	2[50A2G]	
PC-4	1	1	PANEL P6	SE HAND HOLE		2
PC-5	1	1	SE HAND HOLE	EV CHARGING STATION	2[50A2G]	
PC-6	1	1	SE HAND HOLE			1,2
PC-7	1	3/4	LIGHTING CONTACTOR (E)	EAST LIGHT POLES	20A2G	
PC-8	1	3/4	LIGHTING CONTACTOR (E)	SE HAND HOLE	20A2G	
PC-9	1	3/4	SE HAND HOLE	SW HAND HOLE	20A2G	
PC-10	1	3/4	SW HAND HOLE	PARKING LOT WEST LIGHT POLES	20A2G	

ABBREVIATIONS:
PC = POWER CONDUIT

GENERAL NOTES:

A. PROVIDE PULL CORD FOR ALL SPARE CONDUITS.

B. STUB-OUT CONDUITS SHALL BE CAPPED AND MARKED FOR FUTURE LOCATION EFFORTS.

C. SEE FEEDER SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE, TYPE, AND QUANTITY.

SPECIFIC NOTES:
1. CONDUIT CAPPED UNDERGROUND FOR FUTURE USE.

2. SPARE CONDUIT, INSTALL PULL CORD IN CONDUIT FOR FUTURE USE.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
-	-	-	-	-	-

ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

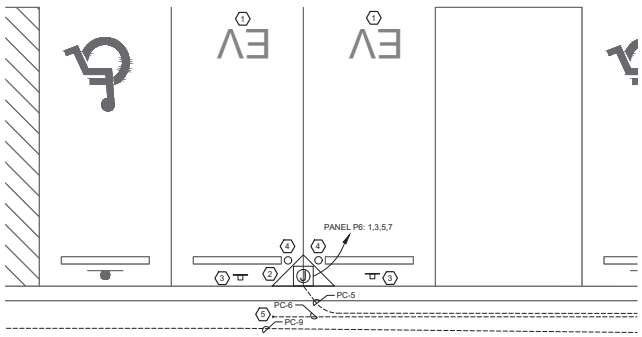
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SCALE AS NOTED		
OLD FILE/DRAWING NO.		954300E101

COLUMBIA GENERATING STATION
EPU PARKING LOT
ELECTRICAL
SITE PLAN

CAD FILE NO.	SHEET NO.	REV.
954300E101	E101	0

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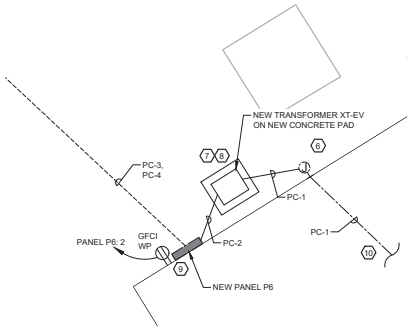
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1 ENLARGED EV CHARGING SITE PLAN

NORTH

1/4" = 1'-0" E101



2 ENLARGED EV CHARGING SITE PLAN

NORTH

1/4" = 1'-0" E101

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

KEY NOTES ⟨#⟩

1. PARKING SPOT STRIPING SHALL BE DONE BY CIVIL CONTRACTOR, SEE SHEET E601 DETAIL 2 FOR MORE INFORMATION.
2. ELECTRICAL CONTRACTOR SHALL INSTALL CHARGEPOINT CT4000 DUAL HEAD EV CHARGING STATION ON CONCRETE PAD IN COMPLIANCE WITH ALL THE VENDOR SPECIFICATIONS. SEE SHEET E601 DETAIL 1 FOR CONCRETE PAD INFORMATION.
3. INSTALL NEW EV CHARGING SIGNAGE IN FRONT OF EACH EV CHARGNIGN PARKING SPOT. SEE SHEET E601 DETAIL 3,4 FOR MORE INFORMATION.
4. NEW 6" BOLLARD, PLASTIC SLEEVED. REFER TO SHEET E601 DETAIL 5 FOR MORE INFORMATION.
5. ELECTRICAL CONTRACTOR SHALL STUB AND CAP CONDUIT FOR FUTURE EV CHARGERS UNDERGROUND. INSTALL PULL CORD IN CONDUIT AND PLACE MARKER TO INDICATE CONDUIT LOCATION.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE 16"x16"x8" NEMA 3R PLASTIC JUNCTION BOX AND WALL BRACKET FOR PASS THROUGH OF CIRCUITS. CONDUITS SHALL TRANSITION FROM INSIDE THE BUILDING TO EXTERIOR. ELECTRICAL CONTRACTOR SHALL CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTEDELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
8. ELECTRICAL CONTRACTOR SHALL INSTALL NEW 480-208/120V, 75KVA STEP DOWN TRANSFORMER. CONFIRM LOCATION WITH OWNER BEFORE ROUGH-IN.
9. ELECTRICAL CONTRACTOR SHALL INSTALL ELECTRICAL EQUIPMENT RACK ON CHELAN BUILDING EXTERIOR WALL. CONFIRM LOCATION WITH OWNER BEFORE ROUGH-IN. SEE SHEET E602 DETAIL 1 FOR MORE INFORMATION.
10. CONDUIT TO DISTRIBUTION PANEL 24MDP1-011-1B6, CONTRACTOR SHALL FIELD CONFIRM DISTRIBUTION PANEL LOCATION.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
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ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

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COLUMBIA GENERATING STATION

EPU PARKING LOT

ELECTRICAL

ENLARGED SITE PLAN

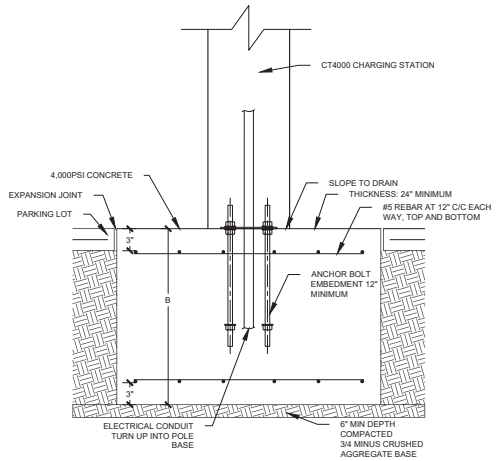
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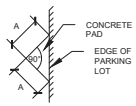
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PLOT DATE: 02 JUL 26



NOTE:
SET PAD ON 6 IN. MINIMUM DEEP COMPACTED GRAVEL BASE EXTENDING 6IN. MINIMUM BEYOND EACH SIDE.

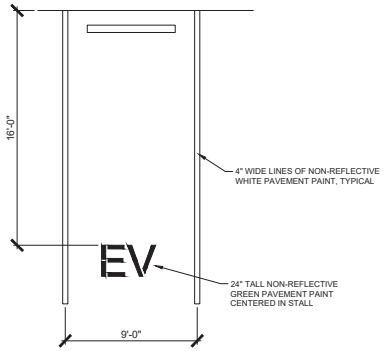
EV CHARGER PAD DIMENSIONS		
CHARGER	A(TRIANGLE SIDE)	B*(DEPTH)
LEVEL 2 W/ BOLLARDS	36"	24"
* = OR FROST LINE IF DEEPER		



NOTE:
OBTAIN AND REFER TO EV CHARGER MANUFACTURERS INSTALLATION INSTRUCTIONS FOR EV MOUNTING BASE, BOLT LAYOUT, AND PAD REQUIREMENTS.

1 EV CHARGER BASE DETAIL

1-1/2" = 1'-0" E501

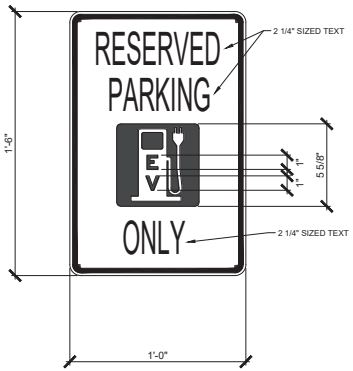


2 EV PARKING STRIPING DETAIL

1/4" = 1'-0" E501

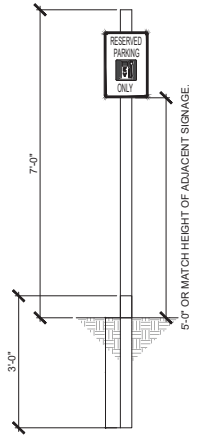
GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.



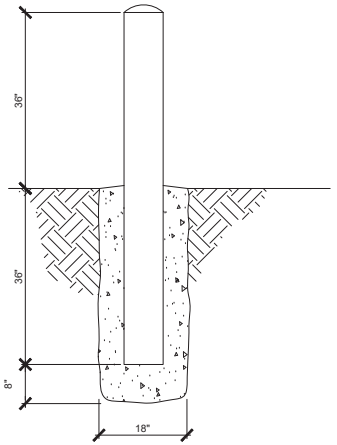
3 EV ONLY SIGN DETAIL

3" = 1'-0" E601



4 EV SIGN POST DETAIL

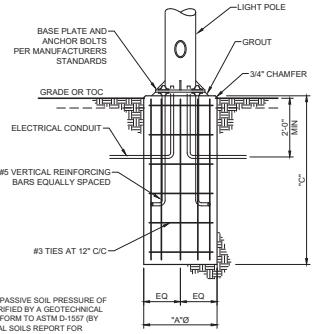
3/4" = 1'-0" E501



5 BOLLARD DETAIL

1" = 1'-0" E501

POLE HEIGHT (FT)	"A" (FT)	"B" QTY	"C" (FT)
30	2.0	8	4.0



NOTE:
POLE BASE DESIGN IS BASED UPON AN ALLOWABLE PASSIVE SOIL PRESSURE OF 150 PCF MINIMUM PER IBC CHP 18 AND SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER. FIELD COMPACTION & TESTS SHALL CONFORM TO ASTM D-1557 (BY OTHERS). REFER TO CIVIL PLANS AND GEOTECHNICAL SOILS REPORT FOR FURTHER INFORMATION. WHERE NOT OTHERWISE SPECIFIED; ALL POLE BASE FILL MATERIAL SHALL PER IBC CHP 18.

POLE BASE DETAIL-FLUSH

6 FLUSH LIGHT POLE BASE DETAIL

NTS E101

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
-	-	-	-	-	-

ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

SIGNATURE		DATE
APPROVED	DJB	07/02/26
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SCALE AS NOTED		
OLD FILE/DRAWING NO.		954300E601

COLUMBIA GENERATING STATION

EPU PARKING LOT

ELECTRICAL

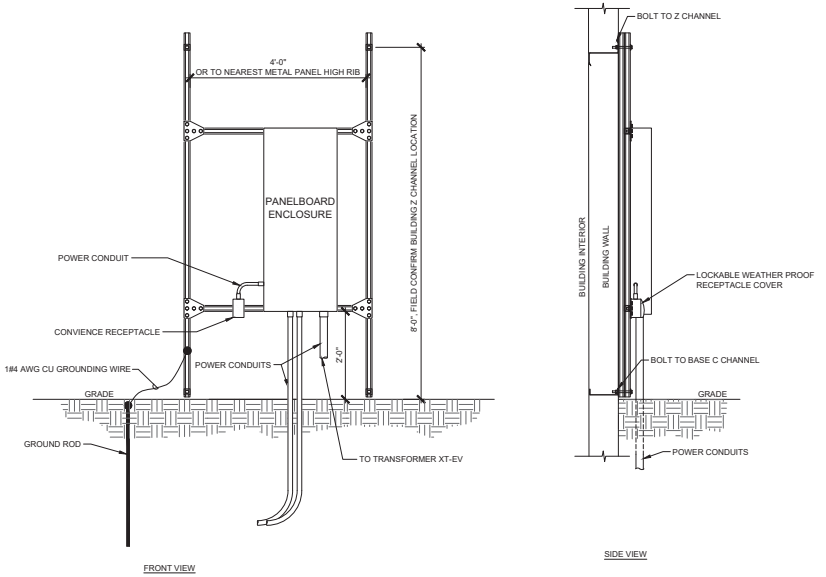
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1 PANEL WALL MOUNT DETAIL

3/4" = 1'-0" E101

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
-	-	-	-	-	-

ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

SIGNATURE		DATE
APPROVED	DJB	07/02/26
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SCALE AS NOTED		
OLD FILE/DRAWING NO.		954300E602

COLUMBIA GENERATING STATION

EPU PARKING LOT

ELECTRICAL

DETAILS

CAD FILE NO.	SHEET NO.	REV.
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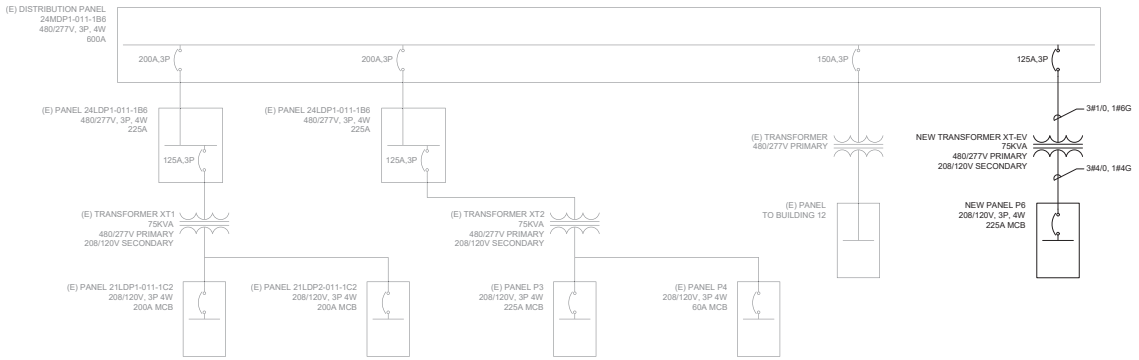
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GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.



1 ONE-LINE DIAGRAM
NTS

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
-	-	-	-	-	-

ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

	SIGNATURE	DATE
APPROVED	DJB	07/02/26
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SCALE AS NOTED		
OLD FILE/DRAWING NO.		954300E701

COLUMBIA GENERATING STATION

EPU PARKING LOT

ELECTRICAL

ONE-LINE DIAGRAM

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PLOT DATE: 02 JUL 26

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	SOURCE			DIMMING	VOLTAGE	TOTAL VA	MANUFACTURER			MOUNTING		NOTES
		TYPE	LM/CCT(K)	CRI				BASIS OF DESIGN NAME	BASIS OF DESIGN CATALOG SERIES	OTHERS	TYPE	HEIGHT	
HA	FIELD ADJUSTABLE LED FLOOD LIGHT	LED	32832/ 5000K	80.00	0-10V	480V	213.00	RAB	FXLEDMSF/480	-	POLE	30'	1
PA	30' LIGHT POLE	-	-	-	-	-	-	RAB	PTR8-07-30WT	-	-	30'	-

SPECIFIC NOTES:

1 LIGHT FIXTURE SHALL FIELD ADJUST TO 60 DEGREE TILT.

LIGHTING CONTROLS SEQUENCY OF OPERATION

NO.	NAME	OCCUPANCY TYPE	OCCUPANCY SENSOR				TIME CLOCK			WALL SWITCH				DAYLIGHT SENSOR		EXTERIOR		DESIGN FOOTCANDLE TARGET (AVERAGE)	NOTE
			VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIME OUT PERIOD (MINUTES)	HIGH-LOW/OPERATION OCCUPIED-100%/VACANT-30%	SCHEDULED ON TIME	SCHEDULED OFF TIME	OVERRIDE SWITCH (2-HR)	ON/OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	INDOOR - ON/OFF ONLY	INDOOR - DIMMING	ON/OFF (DUSK-2-DAWN)	CURFEW (MOTION DETECTION)		
-	PARKING LOT	EXTERIOR														X		2.5	

GENERAL NOTES:

A. PROVIDE COMMISSIONING OF ALL ELECTRICAL SYSTEMS (RECEPTACLES, VERTICAL, AND HORIZONTAL TRANSPORTATION) AND AUTOMATIC LIGHTING CONTROL SYSTEMS WHERE REQUIRED BY LOCALLY ADOPTED ENERGY CODE. FURNISH COMMISSIONING REPORT AS PART OF CLOSEOUT DOCUMENTS ALONG WITH LIGHTING COMPLIANCE FORMS AND CALCULATIONS THAT DOCUMENT ALL INTERIOR AND EXTERIOR LIGHTING AREA AND/OR SURFACE TYPES, LIGHTING POWER ALLOWANCES, AND INSTALLED DENSITIES.

B. COORDINATE WITH TENANT FINAL SENSOR TIMEOUT SETTINGS PRIOR TO SYSTEM PROGRAMMING.

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
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ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

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COLUMBIA GENERATING STATION

EPU PARKING LOT

ELECTRICAL

SCHEDULES

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954300E801	E801	0

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PLOT DATE: 02 JUL 26

PANELBOARD: 24MDP1-011-1B6

MANUFACTURER AND TYPE: SQUARE D HCM1483-6 — EXISTING PANELBOARD

BUS RATING: 600 AMPERES — WITH FULL SIZE NEUTRAL — MAIN LUG ONLY
AIC RATING: 25,000 AMPERES — WITH EQUIPMENT GROUND BUS — SURFACE MOUNTED
VOLTAGE: 480 Y/277V, 3 PHASE, 4 WIRE

NOTES	TOTAL (VA)	LOAD DESCRIPTION	P	CB	CCT	PH	CCT	CB	P	LOAD DESCRIPTION	TOTAL (VA)	NOTES
	35033	PANEL 24LDP2-011-1B6	3	200	1	A	2	200	3	PANEL 24LDP1-011-1B6	48227	
	35033	-			3	B	4			-	48227	
	35033	-			5	C	6			-	48227	
		SPACE			7	A	8	150	3	BUILDING 12 PANEL	33333	2
		SPACE			9	B	10			-	33333	
		SPACE			11	C	12			-	33333	
		SPACE			13	A	**14**	**125**	**3**	**PANEL A**	**4860**	1
		SPACE			15	B	**16**			**VIA 75KVA TRANSFORMER XT-EV**	**4860**	
		SPACE			17	C	**18**			-	**4860**	

LOAD TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC LOAD (VA)
EQUIPMENT	364,180	1.0	364,180
HEATING	--	1.25	--
KITCHEN EQUIPMENT	--	1.00	--
LIGHTING	--	1.25	--
LARGEST MOTOR	--	1.25	--
REMAINING MOTOR	--	1.0	--
RECEPTACLE (FIRST 10,000)	180	1.0	180
RECEPTACLE (GREATER THAN 10,000)	--	0.5	--
TOTAL	364,360		364,360

NEC DEMAND	A=	121,453	VA	A-B:	100	%	NEC LOAD (AMPERES): 438.3
PHASE LOADING	B=	121,453	VA	B-C:	100	%	SPARE CAPACITY (AMPERES): 161.7 — 27.0 %
AND BALANCE	C=	121,453	VA	C-A:	100	%	TOTAL AVAILABLE (AMPERES): 600.0

NOTES: 1 NEW LOAD ON NEW CIRCUIT BREAKER.
2 EXISTING LOAD ESTIMATED TO 80% OF CIRCUIT BREAKER CAPACITY.

PANELBOARD: P6

MANUFACTURER AND TYPE: SQUARE D QO342MQ225RB — **NEW PANELBOARD**

BUS RATING: 225 AMPERES — WITH FULL SIZE NEUTRAL — 225 AMPERE MAIN CIRCUIT BREAKER
AIC RATING: 25,000 AMPERES — WITH EQUIPMENT GROUND BUS — SURFACE MOUNTED
VOLTAGE: 208 Y/120V, 3 PHASE, 4 WIRE

NOTES	TOTAL (VA)	LOAD DESCRIPTION	P	CB	CCT	PH	CCT	CB	P	LOAD DESCRIPTION	TOTAL (VA)	NOTES
	3600	EV CHARGING STATION 1	2	40	1	A	2	20	1	CONVIENCE RECEPTACLE	180	
	3600	-			3	B	4	20	1	SPARE		
	3600	EV CHARGING STATION 2	2	40	5	C	6	20	1	SPARE		
	3600	-			7	A	8	20	1	SPARE		
		SPACE			9	B	10			SPACE		
		SPACE			11	C	12			SPACE		
		SPACE			13	A	14			SPACE		
		SPACE			15	B	16			SPACE		
		SPACE			17	C	18			SPACE		
		SPACE			19	A	20			SPACE		
		SPACE			21	B	22			SPACE		
		SPACE			23	C	24			SPACE		
		SPACE			25	A	26			SPACE		
		SPACE			27	B	28			SPACE		
		SPACE			29	C	30			SPACE		
		SPACE			31	A	32			SPACE		
		SPACE			33	B	34			SPACE		
		SPACE			35	C	36			SPACE		
		SPACE			37	A	38			SPACE		
		SPACE			39	B	40			SPACE		
		SPACE			41	C	42			SPACE		

LOAD TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC LOAD (VA)
EQUIPMENT	14,400	1.0	14,400
HEATING	--	1.25	--
KITCHEN EQUIPMENT	--	1.00	--
LIGHTING	--	1.25	--
LARGEST MOTOR	--	1.25	--
REMAINING MOTOR	--	1.0	--
RECEPTACLE (FIRST 10,000)	180	1.0	180
RECEPTACLE (GREATER THAN 10,000)	--	0.5	--
TOTAL	14,580		14,580

NEC DEMAND	A=	7,380	VA	A-B:	49	%	NEC LOAD (AMPERES): 40.5
PHASE LOADING	B=	3,600	VA	B-C:	100	%	SPARE CAPACITY (AMPERES): 109.5 — 73.0 %
AND BALANCE	C=	3,600	VA	C-A:	49	%	TOTAL AVAILABLE (AMPERES): 150.0

GENERAL NOTES

1. SEE SHEET E001 FOR GENERAL NOTES AND LEGEND.

REV	DATE	DESCRIPTION	DWN	CHK	ENGR
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ENERGY NORTHWEST

FACILITIES & COMMERCIAL ENGINEERING

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COLUMBIA GENERATING STATION
EPU PARKING LOT
ELECTRICAL
PANEL SCHEDULE

CAD FILE NO.	SHEET NO.	REV.
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