GENERAL ELECTRICAL NOTES:

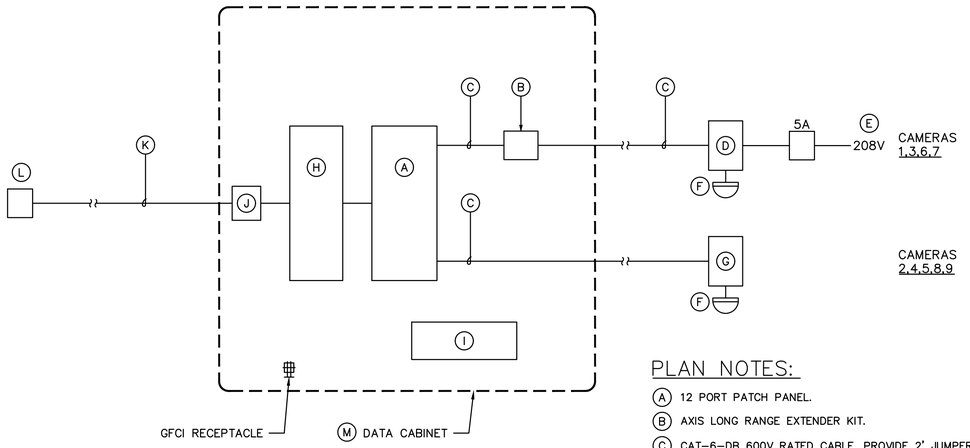
1. BRANCH CIRCUIT NOTES:

   A. VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTED BELOW.

   B. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOOR AND EXTERIOR BUILDING LIGHTING SHALL BE MINIMUM NO. #10 AWG.

   C. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR BRANCH CIRCUITS SERVING RECEPTACLE OUTLETS UNLESS OTHERWISE INDICATED.

3. MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.



PLAN NOTES:

(A) 12 PORT PATCH PANEL.

(B) AXIS LONG RANGE EXTENDER KIT.

(C) CAT-6-DB 600V RATED CABLE. PROVIDE 2' JUMPERS AT POE AND CONNECTORS IN FIELD.

(D) AXIS T98A18-VE MEDIA CONVERTER CABINET A. 208V

(E) CONNECT TO POLE LIGHT POWER. PROVIDE INLINE FUSE HOLDERS WITH 5A FUSES.

(F) AXIS P3719-PLE NETWORK CAMERA. MOUNT TO DOOR OF POLE LIGHT CABINET.

(G) AXIS T98A18-VE SURVEILLANCE CABINET.

(H) 12 PORT POE SWITCH.

(I) 24V/48V POWER SUPPLY.

(J) 6 STRAND FIBER PATCH WITH LC CONNECTORS.

(K) 6 STRAND INDOOR/OUTDOOR SINGLE MODE FIBER OPTIC CABLE.

(L) PROVIDE FIBER OPTIC PATCH PANEL IN RACK 22 LOCATED IN THE DATA CENTER. COORDINATE INSTALLATION WITH OWNERS IT PERSONNEL.

(M) WESTELL A90-BXM1019-NHE3 BOXER 10 SERIES, 10RU, OUTDOOR RATED LOCKABLE ENCLOSURE WITH TEMPERATURE CONTROLLED HEAT EXCHANGER COOLING, ALARM SWITCH, AND OPTIONAL PAD MOUNT KIT WITH 14 INCH SKIRT AND GFCI RECEPTACLE. POWER SUPPLY AS REQUIRED.

1 CAMERA WIRING RISER DIAGRAM - PARKING

ABBREVIATIONS
(SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS)

ABBREV	DESCRIPTION
A or AMP	AMPERES
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DIA	DIAMETER
DIV	DIVISION
DRC	DIGITAL ROOM CONTROLLER
DWG	DRAWING
ELEC	ELECTRIC
EMT	ELECTRICAL METALLIC TUBING
EXST or (E)	EXISTING
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT
GND	GROUND
HP	HORSEPOWER
HZ	HERTZ
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCM or KCM	THOUSAND CIRCULAR MILS
MDP	MAIN DISTRIBUTION PANELBOARD
MDS	MAIN DISTRIBUTION SWITCHBOARD
MIN	MINIMUM
MOP or MOCP	MAXIMUM OVERCURRENT PROTECTION
N or NEUT	NEUTRAL
NTS	NOT TO SCALE
ø or PH	PHASE
PNL	PANEL
RM	ROOM
SP	SINGLE POLE
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
V	VOLTS
VA	VOLT AMPERES
W	WATTS
W/	WITH
WP	WEATHER PROOF

ELECTRICAL LEGEND
(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	DISTRIBUTION
	PANELBOARD – SURFACE
	PANELBOARD – EXISTING (SURFACE PANEL SHOWN)
	SWITCHBOARD OR MCC (DRAWN TO SCALE)
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	DRY TYPE TRANSFORMER
	INGROUND HANDHOLE OR VAULT: SEE DETAIL
	UNDERGROUND ELECTRIC UTILITY (SECONDARY ELECTRIC UNLESS OTHERWISE INDICATED)
E	SECONDARY ELECTRIC (BELOW 600V)
C	COMMUNICATIONS
	CROSS LINES INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO WIRE CIRCUIT. LONG DENOTES NEUTRAL. DOT DENOTES GROUND. DOTTED HASH MARK INDICATES ISOLATED GROUND. CONDUIT IS 1/2" AND CONDUCTOR IS #12 AWG UNLESS OTHERWISE NOTED OR SCHEDULED. ONLY BRANCH CIRCUIT HOMERUNS ARE INDICATED WITH CONDUCTOR COUNT. SEE GENERAL ELECTRICAL NOTES.
	WIRING CONCEALED IN CEILING OR WALL
	WIRING CONCEALED UNDERGROUND OR BELOW FLOOR
	WIRING EXPOSED
	WIRING HOMERUN
	CONDUIT UP, DOWN
	FLEXIBLE WIRING CONNECTION
	LIGHTING
	POLE MOUNTED LIGHT
	CLOSED CIRCUIT TELEVISION CAMERA
	CALLOUTS
XXX	FIXTURE SYMBOL
#	BUBBLE NOTE TAG SYMBOL: # – IDENTIFYING NUMBER
#	DRAWING REVISION SYMBOL: # – IDENTIFYING NUMBER
	SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED)
#/B	DETAIL SYMBOL: (AS INDICATED ON DRAWINGS) # – IDENTIFYING NUMBER B – SHEET WHERE DETAIL SHOWN
#/B	DETAIL SYMBOL: (AS INDICATED ON DRAWINGS) # – IDENTIFYING NUMBER B – SHEET WHERE DETAIL SHOWN
	REMODEL
	HEAVY LINE WEIGHT = NEW WORK (2 X 4 LAY-IN SHOWN)
	STANDARD LINE WEIGHT = EXISTING TO REMAIN (RECEPTACLE SHOWN)
	CROSS HATCH LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)
	BROKEN LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)
(N)	STANDARD LINE WEIGHT WITH (N) = EXISTING TO BE REPLACED OR MODIFIED (SEE REMODEL NOTES) (RECEPTACLE SHOWN)

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PUYALLUP SCHOOL DISTRICT
A Tradition of Excellence

Project Title

1501 39TH AVE SW
PUYALLUP, WA 98371

Project Numbers

Issue & Revision Dates

23 JUNE, 2022	SCHEMATIC DESIGN
11 AUGUST, 2022	DESIGN DEVELOPMENT
27 JULY, 2022	CONDITIONAL USE PERMIT
24 JANUARY, 2023	CUP REVISION 1

CONDITIONAL USE PERMIT
NOT FOR CONSTRUCTION

THOMAS URQUHART — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SIGNED
09-29-22

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Sheet Title
LEGEND, NOTES & ABBREVIATIONS

Drawn By Checked By

Sheet Number
E0.01

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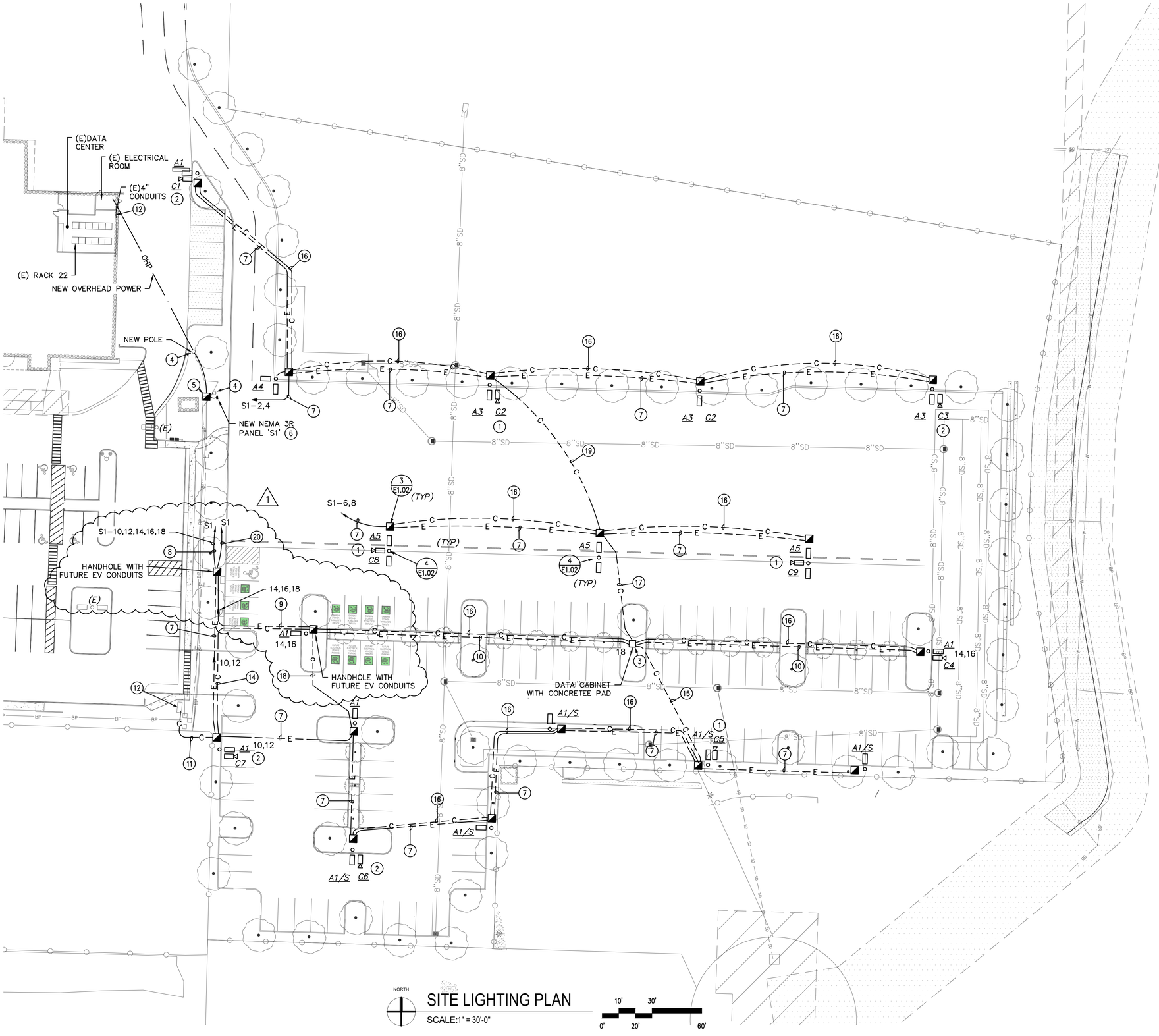

SITE LIGHTING PLAN

SCALE:1" = 30'-0"

10' 30'
0' 20' 60'

PLAN NOTES:

1. POLE LIGHT WITH CAMERA AND SURVEILLANCE CABINET. SEE DETAIL 5/E1.02.
2. POLE LIGHT WITH CAMERA AND MEDIA CONVERTER CABINET A. SEE DETAIL 5/E1.02.
3. COMMUNICATIONS CABINET, SEE DETAIL 1/E0.01. PROVIDE CONCRETE SLAB FOUNDATION, 5-1/2 INCH THICK REINFORCED WITH 6 INCH X 6 INCH NO. 6 WELDED STEEL FABRIC UNIFORMLY CENTERED IN SLAB. SLAB SHALL BE PLACED ON A WELL COMPACTED 9 INCH DEEP GRAVEL SUBBASE SO THAT THE TOP IS 3 INCHES ABOVE GRADE. ALL EDGES SHALL HAVE 1/2 INCH CHAMFER.
4. DEMO EXISTING POLE AND SUPPORTS AND PROVIDE NEW LOCATED CLOSER TO BUILDING WITH NEW GUY WIRE SUPPORTS.
5. INTERCEPT EXISITNG PORTABLE FEEDER AND INSERT HANDHOLE. SEE SHEET E5.01.
6. PROVIDE NEW NEMA 3R PANELBOARD ON UNISTRUT SUPPORT SYSTEM. COORDINATE WITH IRRIGATION INSTALLER AND PROVIDE SPACE FOR THEIR CONTROLLERS.
7. 1-1/4"C - 2#8 +#8G.
8. 1-1/4"C - 6#8 +#8G.
9. (1)1-1/4"C - 4#8 +#8G (3)2"C - PULL LINE (FUTURE EV).
10. 1-1/4"C - 4#8 + #8G.
11. 2"C - 6-STRAND FIBER CABLE.
12. INSTALL FIBER INTO EXISTING 1" EMPTY INNERDUCT WITH PULL LINE.
13. ROUTE FIBER TO CABLE, THEN TO RACK 22 AND TERMINATE ON NEW PATCH PANEL.
14. 1-1/4"C - (1)6-STRAND FIBER + (1)CAT6 CABLE.
15. 1-1/4"C - (2) CAT6.
16. 1"C - (1)CAT6.
17. 2"C - (5)CAT6.
18. 1"C - PULL LINE.
19. 1-1/4"C - (3)CAT6.
20. (4)2"C - PULL LINE (FUTURE EV).

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10' 30'
0' 20' 60'

Sheet Title
ELECTRICAL SITE PLAN

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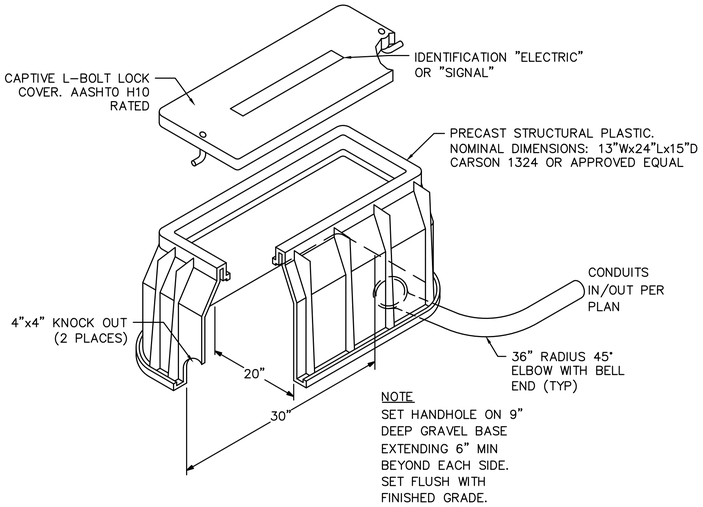
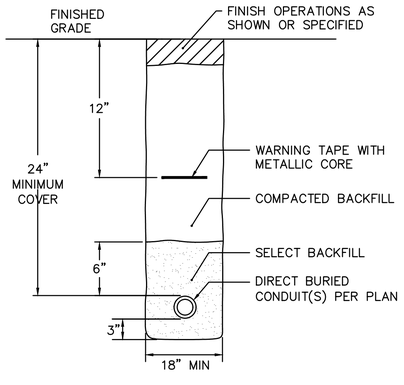


3 HANDHOLE DETAIL

SCALE: NTS



2 ELECTRICAL UTILITY TRENCH

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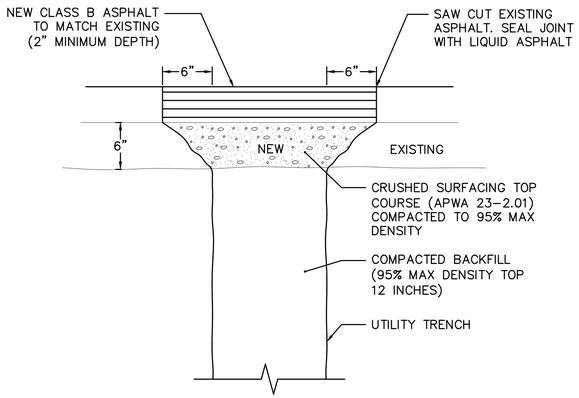

1 DETAIL - ASPHALT PAVEMENT REPAIR

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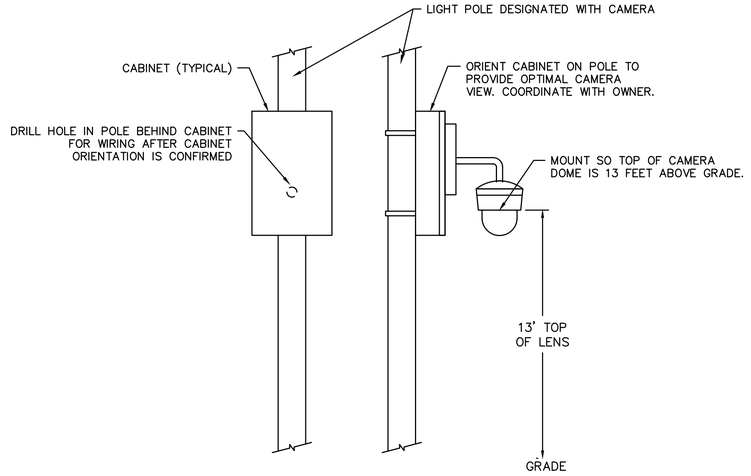
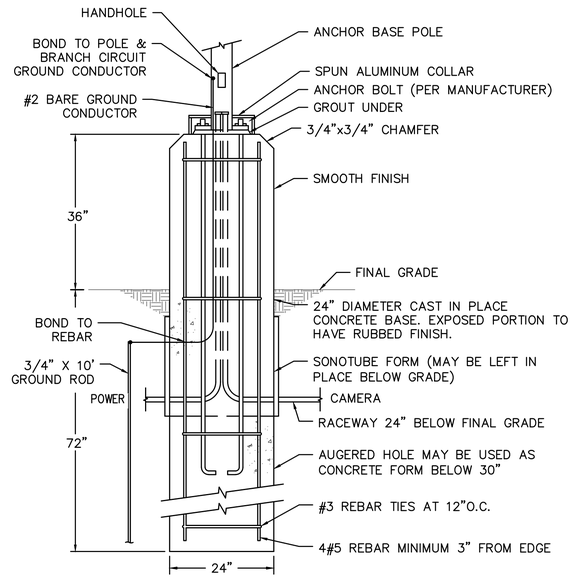


5 POLE MOUNTED CAMERA DETAIL

SCALE: NTS



4 POLE BASE DETAIL

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SITE PLAN DETAILS

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MGSH LOAD CALCULATION – UTILITY METER
12,470 / 7,200 VOLTS

ACCOUNT #200007408012 METER P157270291

Description			Remarks
Utility Metered 12 Month Peak KW Demand	147.36	KW	ED TECH
Power Factor	0.9		
12 Month Peak KVA	163.73	KVA	
Demand Factor	125%		NEC 220.87
Adjusted Demand	204.67	KVA	
New Load Added	78.00	KVA	REFER TO PANEL 'S1'
	76.80	KVA	FUTURE EV LOAD
Total Load	359.47	KVA	
	997.81	AMPS	

DATE	KW DEMAND	DATE	KW DEMAND	
Jul–2021	97.68	Jan–2022	141.60	
Aug–2021	95.64	Feb–2022	147.36	MAX
Sep–2021	86.16	Mar–2022	143.28	
Oct–2021	110.40	Apr–2022	129.48	
Nov–2021	130.44	May–2022	121.56	
Dec–2021	138.00	Jun–2022	107.76	

NEW — THREE PHASE PANEL SCHEDULE — PHASE OVERLOADED

S1
GRID
SECTION: 1 OF 1
LOCATION: ELECTRICAL

VOLTAGE: 208/120 4W
ENCLOSURE
FLUSH
X SURFACE
NEMA TYPE 1
X NEMA TYPE 3R
NEMA TYPE 12

RATING: 400 A
ACCESSORIES
ISOLATED GROUND
X SPD
200% NEUTRAL
X FEED THRU BREAKER
DOUBLE LUGS

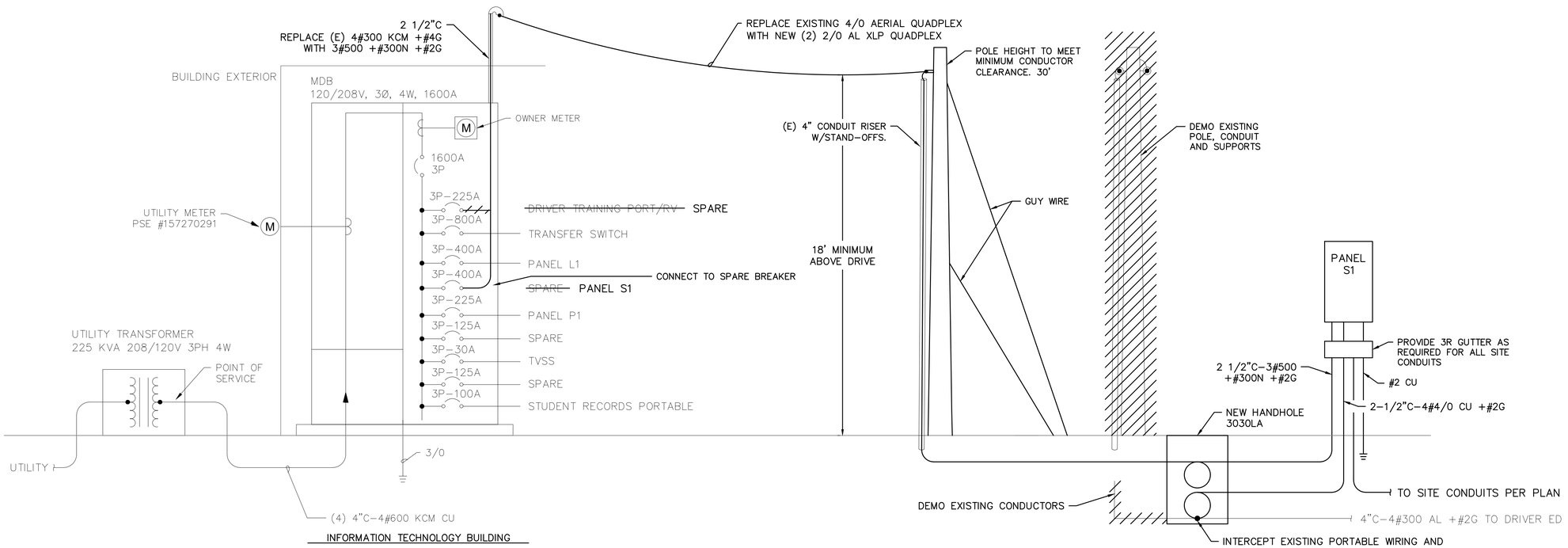
MAIN: BREAKER
AIC ASSEMBLY
SERVICE RATED
SERIES RATED
X 10K
25K
42K

DESCRIPTION	*	VA	BKR	CKT	A	B	C	CKT	BKR	VA	*	DESCRIPTION
FUTURE EV			40/2	1	937			2	30/2	937		LTG – NORTH
				3		937		4		937		
FUTURE EV			40/2	5			963	6	30/2	963		LTG – MID NORTH
				7	963			8		963		
FUTURE EV			40/2	9		945		10	30/2	945		LTG – SOUTH
				11			945	12		945		
FUTURE EV			40/2	13	270			14	30/2	270		LTG – MID SOUTH
				15		270		16		270		
FUTURE EV			40/2	17			500	18	20/1	500		DATA CABINET
				19	0			20	20/1			SPARE
FUTURE EV			40/2	21		0		22	20/1			SPARE
				23			500	24	20/1	500		IRRIGATION CONTROLLER
FUTURE EV			40/2	25	0			26	20/1			SPARE
				27		0		28	20/1			SPARE
SPARE			40/2	29			0	30	20/1			SPARE
				31	0			32	20/1			SPARE
SPARE			40/2	33		0		34	40/2			SPARE
				35			0	36				
SPARE			40/2	37	0			38	40/2			SPARE
				39		0		40				
SPARE			20/1	41			0	42	20/1			SPARE
FEED THRU BREAKER		25749	225/3		25749							
DRIVER TRAINING PORTABLE/RV		23320				23320						
PANEL PD		20171					20171					
BREAKER CODE:					27919	25472	23079	VA S1				
A=AFCI, G=GFCI, N=SWITCHED NEUTRAL, S=SHUNT TRIP								VA				
K=KEYED, P=PADLOCK ATTACHMENT								VA				
					27919	25472	23079	VA SUB–TOTAL				
					232.7	212.3	192.3	AMPS PHASE (L–N)				
							34.9	AMPS NEUTRAL				

CODE	KVA			KVA
LIGHTING	6.2	X	125%	7.8
RECEPTACLES		X	100%	
RECEPTACLES OVER 10K		X	50%	
MOTORS		X	100%	
LARGEST MOTOR		X	125%	
KITCHEN		X	100%	
NONCOINCIDENT		X	0%	
REMAINDER	70.2	X	100%	70.2
EV CHARGER		X	125%	

TOTAL LOAD	KVA	AMPS
CONNECTED	76.5	212.3
CALCULATED	78.0	216.6

NOTE *



1 EXISTING PARTIAL ONE-LINE DISTRIBUTION RISER DIAGRAM.

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ONE-LINE RISER DIAGRAM

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ENERGY CODE COMPLIANCE NOTES FOR LIGHTING CONTROL

1. EXTERIOR LIGHTING CONTROLS: PROVIDE AUTOMATIC CONTROL OF EXTERIOR LIGHTING SYSTEMS:
   - A. DAYLIGHT SHUTOFF: LIGHTS SHALL BE CONFIGURED TO TURN OFF WHEN DAYLIGHT IS PRESENT.
   - B. LIGHTING SETBACK: THE TOTAL WATTAGE SHALL BE REDUCED TO 30% BY EITHER SELECTIVELY SWITCHING OFF OR DIMMING AT ONE OF THE FOLLOWING TIMES:
     - B.1. NOT LATER THAN 12 MIDNIGHT TO 6 A.M.
     - B.2. NOT LATER THAN 1 HOUR AFTER CLOSE OF BUSINESS TO NO EARLIER THAN 1 HOUR BEFORE BUSINESS OPEN.
     - B.3. WHEN NO ACTIVITY HAS BEEN DETECTED FOR 15 MINUTES OR MORE.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP	VOLTAGE	INPUT WATTS	BALLAST/ DRIVER	REMARKS
A1	POLE MOUNTED LED AREA LIGHT, 25' ALUMINUM POLE, TYPE T3M DISTRIBUTION	LITHONIA DSX2 LED SERIES	LED 3000K 32,000 LUMEN	208V	270	DRIVER	
A3	SAME AS A1 FIXTURE EXCEPT 30' ALUMINUM POLE	LITHONIA DSX2 LED SERIES	LED 3000K 36,000 LUMEN	208V	321	DRIVER	
A4	SAME AS A1 FIXTURE EXCEPT 30' ALUMINUM POLE AND SECOND LIGHT AT 90 °	LITHONIA DSX2 LED SERIES	LED 3000K 36,000 LUMEN EACH LUMINAIRE	208V	642	DRIVER	
A5	SAME AS A1 FIXTURE EXCEPT 30' ALUMINUM POLE AND SECOND LIGHT AT 180 °	LITHONIA DSX2 LED SERIES	LED 3000K 36,000 LUMEN EACH LUMINAIRE	208V	642	DRIVER	
/S	PROVIDE FIXTURES WITH HOUSE SHIELD						

GENERAL LUMINAIRE SCHEDULE NOTES:

1. LED LUMENS ARE BASED ON TOTAL ILLUMINATION OUTPUT OF THE LUMINAIRE UNLESS OTHERWISE INDICATED.
2. POLE LIGHTS SHALL HAVE CONTINOUS POWER TO INTEGRAL PHOTO AND OCCUPANCY SENSOR. FIXTURE SHALL BE SET TO 90% OUTPUT WHEN AREA IS OCCUPIED AND DIM TO 30% AFTER 15 MINUTES UNOCCUPIED..
3. PROVIDE 10A INLINE FUSES IN BASE AT HANDHOLE. FUSE SHALL RETAIN IN FUSE HOLDER ON FIXTURE SIDE OF WIRING.

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	South Hill Support Campus Improvement - Phase 1 - 2018 WSEC	For Building Department Use: Date: Sep 13, 2022
	Project Address	1501 39th Ave SW Puyallup, WA 98371	
	Applicant Name	Office HBHU	
	Applicant Phone	253-383-3257	
	Applicant Email	wanrec@hultzbhu.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		General Building Use Type		Office, Professional Services	Building Cond. Floor Area	1
General Project Types	New Building	New Building or Addition Lighting Scope	Exterior Lighting	Alteration Lighting Scope		Project Cond. Floor Area	1
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Lighting Project Description	Exterior Lighting only, All new LED						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	New Building	Exterior Lighting			Not applicable to exterior	COMPLIES
Additional Efficiency Options Included	Reduced lighting power density credit					

Project Title	South Hill Support Campus Improvement - Phase 1 - 2018 WSEC	Date	Sep 13, 2022
Lighting Power Calculation	NEW BUILDING - EXTERIOR LIGHTING	Compliance Verification	COMPLIES
Exterior Lighting Zone	ZONE 3	Base Site Allowance	500

Exterior Tradable Lighting Power Allowance

Tradable Surface	Tradable Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Tradable Proposed Watts	Tradable Compliance Status
Uncovered parking areas and drives		143,430	0.06			8,606		
					Base Site Allowance	500		
					Totals	9,106	6,231	COMPLIES

Proposed Tradable Lighting Power Density

Fixture Type	Fixture ID	Tradable Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures							
Other fixture type	A4	Uncovered parking areas and drives -	1	642			642
Other fixture type	A1	Uncovered parking areas and drives -	10	270			2,700
Other fixture type	A5	Uncovered parking areas and drives -	3	642			1,926
Other fixture type	A3	Uncovered parking areas and drives -	3	321			963
						Tradable Proposed Total	6231

TCF Architecture

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Tacoma, Washington98403
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TCF Architecture , PLLC

HULTZ BHU engineers inc
1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 21-147.2

PUYALLUP SCHOOL DISTRICT
A Tradition of Excellence

Project Title

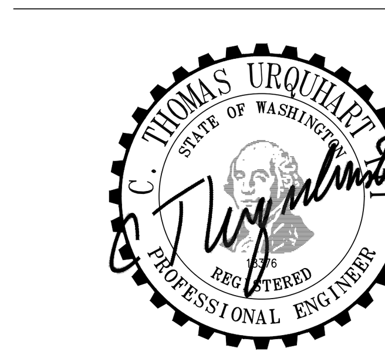
1501 39TH AVE SW
PUYALLUP, WA 98371

Project Numbers

Issue & Revision Dates

23 JUNE, 2022	SCHEMATIC DESIGN
11 AUGUST, 2022	DESIGN DEVELOPMENT
27 JULY, 2022	CONDITIONAL USE PERMIT
24 JANUARY, 2023	CUP REVISION 1

CONDITIONAL USE PERMIT
NOT FOR CONSTRUCTION



SIGNED
09-29-22

NOTE: DRAWING MAY BE REDUCED

Sheet Title
LIGHTING SCHEDULES

Drawn By Checked By

Sheet Number
E6.01

Sheet Number Of

PLOTTED: Dec 19, 2022 – 4:20pm PLOTTED BY: NeilM
DWG PATH: I:\2021 jobs\21-147\Acad\Elec\21-147.2 puy-sh\21-1472 E601 LIGHTING SCHEDULES.dwg