



TPU POLE: TP29000



TPU POLE: TP29001



TPU POLE: TP29002



TPU POLE: TP44500

TPU POLE: TP44999

ELECTRICAL NOTES:

EXISTING TPU POLE #28998 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 26.3' ABOVE FINISHED GRADE.

EXISTING TPU POLE #29000 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 27.9' ABOVE FINISHED GRADE.

3 EXISTING TPU POLE #29001 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 29.2' ABOVE FINISHED GRADE.

EXISTING TPU POLE #29002 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 31.4' ABOVE FINISHED GRADE.

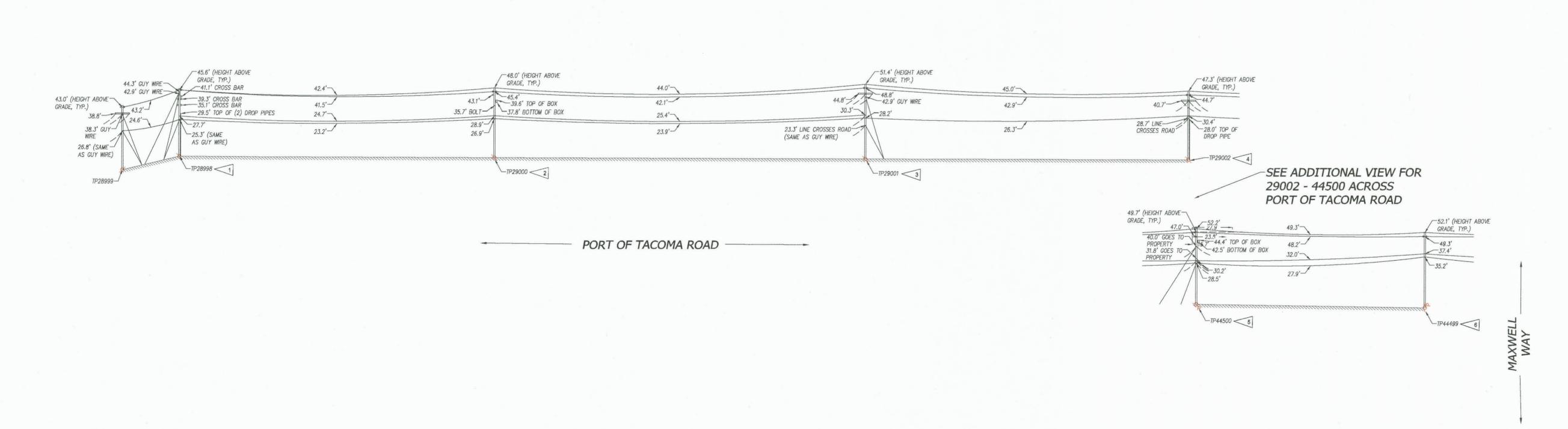
5 EXISTING TPU POLE #44500 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 29.5' ABOVE FINISHED GRADE.

6 EXISTING TPU POLE #44499 - CONTRACTOR SHALL ATTACHED TWO(2) 48 PAIR AERIAL FIBER OPTIC CABLE WITH MESSENGER AT 36.2' ABOVE FINISHED GRADE.



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DATE	-19	DATE			101
412/0/19 CHECKED BY	GLW 12-09-19	3. DATE PROJ. ENGR	ScottK Dec 11, 2019	S: ONE SITCUM PLAZA	LLCO. LOLCO AND ALLCOAT
412/10/19	NSLEY	3. DATE	ScottK	S: ONE S	- V

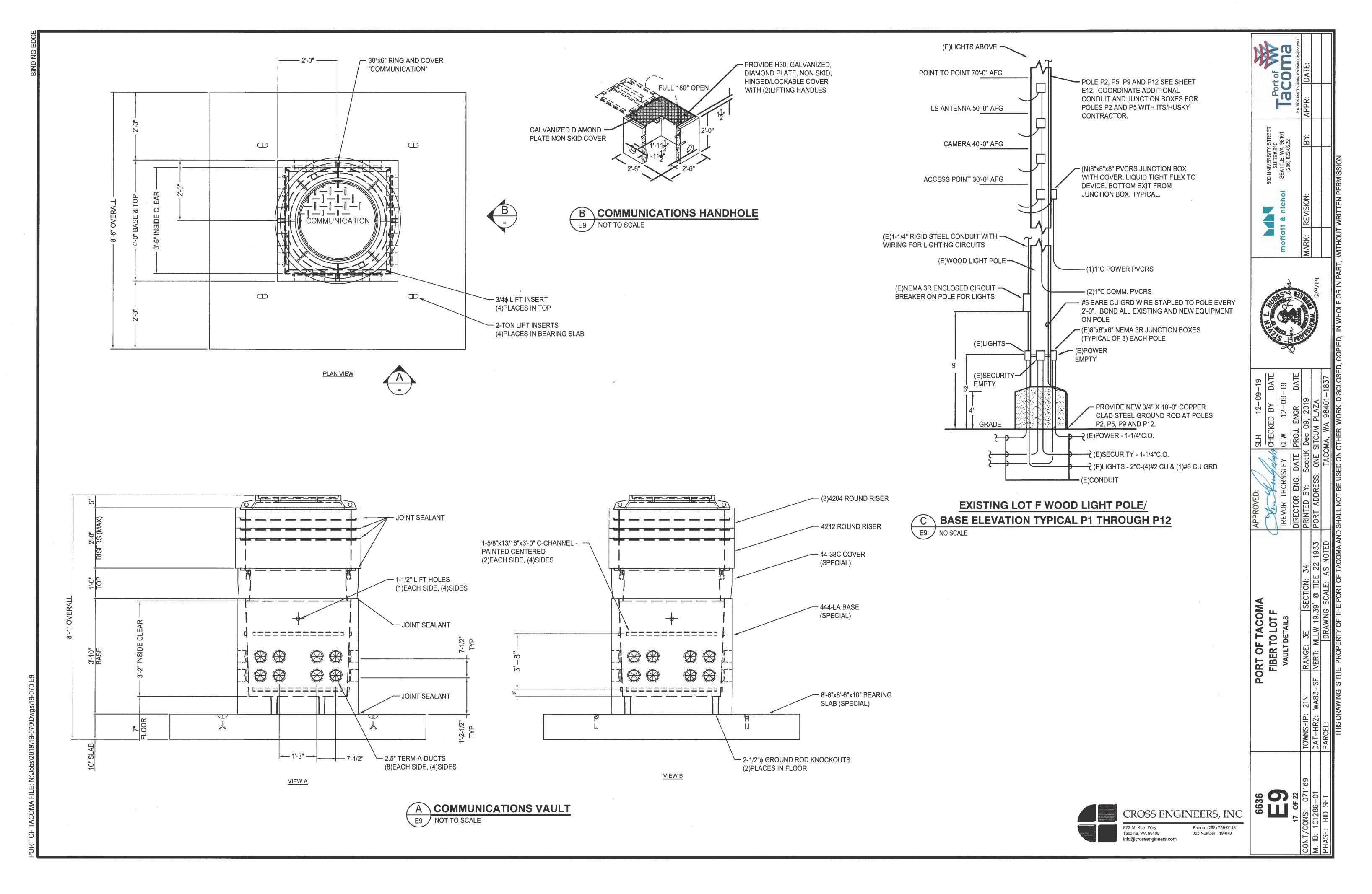
CROSS ENGINEERS, INC 923 MLK Jr. Way Tacoma, WA 98405 Phone: (253) 759-0118 Job Number: 19-070 info@crossengineers.com



TACOMA POWER UTILITY POLE ELEVATIONS

NOT TO SCALE

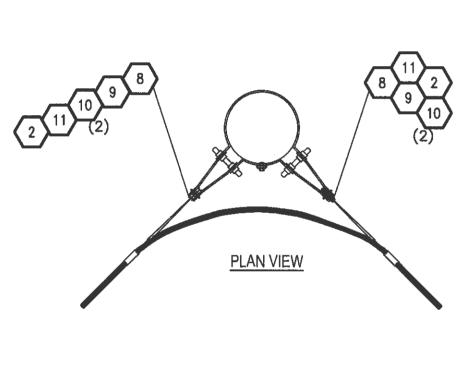
NOTE: SEE PARTIAL SITE PLAN FOR DISTANCES.

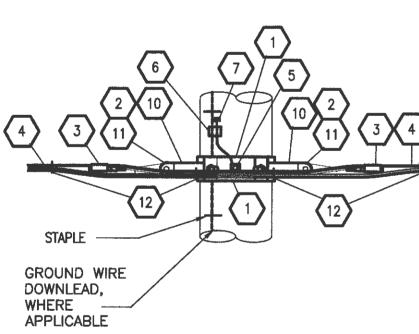


		DETAIL "A" BILL OF MATERIAL
ITEM	QUAN	DESCRIPTION
1	1	FIGURE 8 CABLE HANGER — MACLEAN POWER SYSTEMS #J2245
2	1	5/8" BOLT, MACHINE, GALVANIZED, LENGTH AS REQUIRED
3	2	5/8" LOCKNUT, MF TYPE, GALVANIZED
4	2	5/8" CLAMP, FOR 5/16" GROUNDWIRE, COMPLETE WITH EXTRA NUT (AS REQUIRED)
5	A/R	OSP, (2)24, FIBER FULL SPECTRUM, LOW WATER PEAK, SINGLE MODE, (ITU-T G.652.D,) LOOSE TUBE SINGLE JACKET FIGURE 8 FIBER OPTIC CABLES, WITH 1/4" STRANDED EHS GALV. STL. MESSENGER AND 12016 AERIAL SUPPORT OSP CABLE TIES AT 6'-0" ON CENTER
6	1	CONNECTOR, POWDER ACTUATED MECHANICAL WEDGE, 5/16" TO #8 THRU #2 AWG, BURNDY WEJTAP # FILED BOOSTER # FILED (WHERE REQUIRED)
7	1	SPLICE, 5/16" STRAND, BURNDY #YSU2R2R (IF REQUIRED)
8	1	WASHER, SQUARE CURVED, 4"x4", 3/4" DAI. HOLE, GALV. STL. HUGHES #CW60

DETAIL - TANGENT STRUCTURE E10

SCALE: NTS

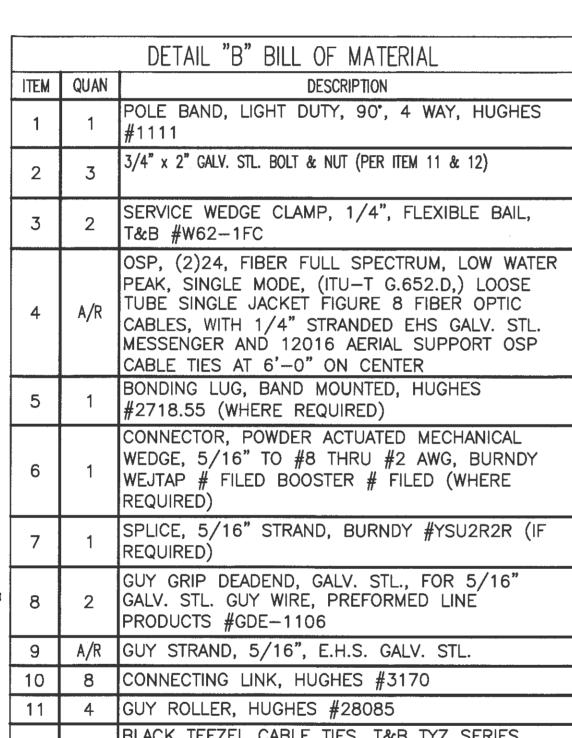


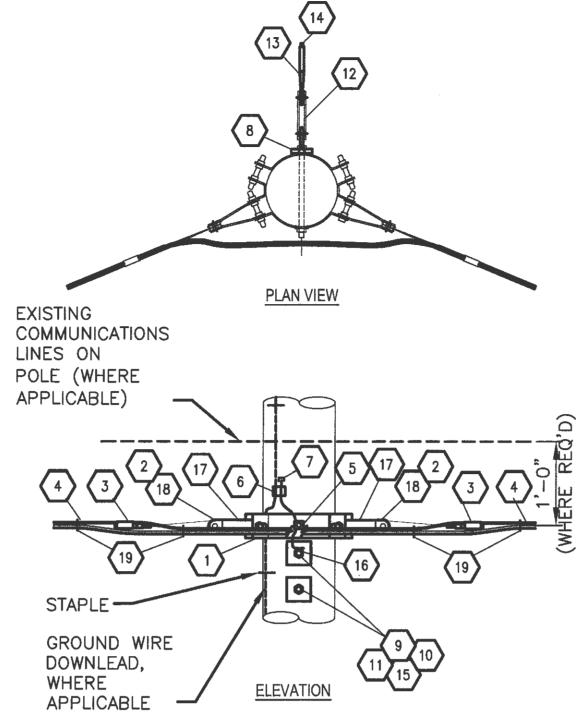


$\overline{}$			 #1111
$8 \overline{)} 2 \overline{)} 10$	2	3	3/4" x 2" GALV. STL. BOLT & NUT (PER ITEM 11 & 12)
(2)	3	2	SERVICE WEDGE CLAMP, 1/4", FLEXIBLE BAIL, T&B #W62-1FC
	4	A/R	OSP, (2)24, FIBER FULL SPECTRUM, LOW WATER PEAK, SINGLE MODE, (ITU-T G.652.D,) LOOSE TUBE SINGLE JACKET FIGURE 8 FIBER OPTIC CABLES, WITH 1/4" STRANDED EHS GALV. STL. MESSENGER AND 12016 AERIAL SUPPORT OSP CABLE TIES AT 6'-0" ON CENTER
	5	1	BONDING LUG, BAND MOUNTED, HUGHES #2718.55 (WHERE REQUIRED)
	6	1	CONNECTOR, POWDER ACTUATED MECHANICAL WEDGE, 5/16" TO #8 THRU #2 AWG, BURNDY WEJTAP # FILED BOOSTER # FILED (WHERE REQUIRED)
$\begin{pmatrix} 2 \\ 11 \end{pmatrix} \begin{pmatrix} 3 \end{pmatrix} \begin{pmatrix} 4 \end{pmatrix}$	7	1	SPLICE, 5/16" STRAND, BURNDY #YSU2R2R (IF REQUIRED)
	8	2	GUY GRIP DEADEND, GALV. STL., FOR 5/16" GALV. STL. GUY WIRE, PREFORMED LINE PRODUCTS #GDE-1106
12	9	A/R	GUY STRAND, 5/16", E.H.S. GALV. STL.
	10	8	CONNECTING LINK, HUGHES #3170
	11	4	GUY ROLLER, HUGHES #28085
	12	4	BLACK TEFZEL CABLE TIES, T&B TYZ SERIES TY-RAPS OR EQUAL

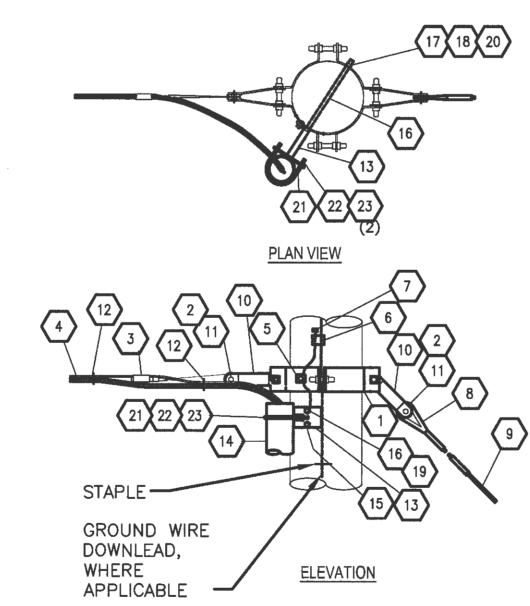
DETAIL - LARGE ANGLE STRUCTURE E10 / SCALE: NTS

ELEVATION





<u>C</u> E10 **DETAIL - SMALL ANGLE STRUCTURE** SCALE: NTS



DETAIL - DEADEND STRUCTURE RISER SCALE: NTS

	DETAIL "C" BILL OF MATERIAL								
ITEM	QUAN	DESCRIPTION							
1	2	POLE BAND, LIGHT DUTY, 135°, 4 WAY, HUGHES #1111-A							
2	2	3/4" x 2" GALV. STL. BOLT & NUT (PER ITEM 17 & 18)							
3	2	SERVICE WEDGE CLAMP, 1/4", FLEXIBLE BAIL, T&B #W62-1FC							
4	A/R	OSP, (2)24, FIBER FULL SPECTRUM, LOW WATER PEAK, SINGLE MODE, (ITU-T G.652.D,) LOOSE TUBE SINGLE JACKET FIGURE 8 FIBER OPTIC CABLES, WITH 1/4" STRANDED EHS GALV. STL. MESSENGER AND 12016 AERIAL SUPPORT OSP CABLE TIES AT 6'-0" ON CENTER							
5	1	BONDING LUG, BAND MOUNTED, HUGHES #2718.55 (WHERE REQUIRED)							
6	1	CONNECTOR, POWDER ACTUATED MECHANICAL WEDGE, 5/16" TO #8 THRU #2 AWG, BURNDY WEJTAP # FILED BOOSTER # FILED (WHERE REQUIRED)							
7	1	SPLICE, 5/16" STRAND, BURNDY #YSU2R2R (WHERE REQUIRED)							
8	1	DEAD END TEE, HUGHES #2817-S-15							
9	2	7/8" HIGH STRENGTH BOLT, GALVANIZED STEEL, LENGTH AS REQ.							
10	2	7/8" BELLVILLE WSWR, GALVANIZED STEEL							
11	2	7/8" LOCKNUT, GALVANIZED STEEL							
12	1	REA TYPE 1 GUY LINK ASSEMBLY, HUGHES #TG-92-1							
13	1	GUY GRIP DEADEND, GALV. STL., FOR 5/16" GALV. STL. GUY WIRE, PREFORMED LINE PRODUCTS #GDE-1106							
14	A/R	GUY STRAND, 5/16", E.H.S. GALV. STL.							
15	2	WASHER, CURVED, 4" SQUARE x 1/4", 7/8" HOLE, GALVANIZED							
16	1	7/8" CLAMP, FOR GROUND WIRE, COMPLETE W/ ADDITIONAL 7/8" NUT (WHERE REQUIRED)							
17	4	CONNECTING LINK, HUGHES #3170							
18	2	GUY ROLLER, HUGHES #28085							
19	4	BLACK TEFZEL CABLE TIES, T&B TYZ SERIES TY-RAPS OR EQUAL							

		DETAIL "D" BILL OF MATERIAL				
ITE	M QUAN	DESCRIPTION				
1	1 1	POLE BAND, LIGHT DUTY, 90°, 4 WAY, HUGHES #1111				
2	2 2	3/4" x 2" GALV. STL. BOLT & NUT (PER ITEM 11 & 12)				
3	3 1	SERVICE WEDGE CLAMP, 1/4", FLEXIBLE BAIL, T&B #W62-1FC				
4	A/R	OSP, (2)24, FIBER FULL SPECTRUM, LOW WATER PEAK, SINGLE MODE, (ITU-T G.652.D,) LOOSE TUBE SINGLE JACKET FIGURE 8 FIBER OPTIC CABLES, WITH 1/4" STRANDED EHS GALV. STL. MESSENGER AND 12016 AERIAL SUPPORT OSP CABLE TIES AT 6'-0" ON CENTER				
5	5 1	BONDING LUG, BAND MOUNTED, HUGHES #2718.55 (WHERE REQURED)				
6	5 1	CONNECTOR, POWDER ACTUATED MECHANICAL WEDGE, 5/16" TO #8 THRU #2 AWG, BURNDY WEJTAP # FILED BOOSTER # FILED (WHERE REQUIRED)				
7	1	SPLICE, 5/16" STRAND, BURNDY #YSU2R2R (WHERE REQURED)				
8	3 1	GUY GRIP DEADEND, GALV. STL., FOR 5/16" GALV. STL. GUY WIRE, PREFORMED LINE PRODUCTS #GDE-1106				
9	A/R	GUY STRAND, 5/16", EHS GALV. STL.				
10	0 4	CONNECTING LINK, HUGHES #3170				
1	1 2	GUY ROLLER, HUGHES #28085				
12	2 2	BLACK TEFZEL CABLE TIES, T&B TYZ SERIES TY-RAPS OR EQUAL				
1.	3 3	CONDUIT STAND-OFF TEE SUPPORT, GALV., HUGHES #AS2477-A				
14	4 A/R	4" SCHED. 40 PVC COND. SLEEVE 10 FT. LENGTH				
15	5 3	5/8" LAG BOLT, x 6", GALV. STL.				
16	6 3	5/8" HIGH STRENGTH BOLT, GALVANIZED, LENGTH AS REQUIRED				
17	7 3	5/8" BELLVILLE WASHER, GALV. STL.				
18	3	5/8" LOCKNUT, GALV. STL.				
19	9 3	5/8" CLAMP, FOR 5/16" GROUNDWIRE, COMPLETE WITH EXTRA NUT (WHERE REQUIRED)				
20	0 3	WASHER, CURVED, 3" SQUARE x 1/4", 11/16" HOLE, GALV. STL. — HUGHES #SCW3—60				
2	1 3	4"øx3/8"-16NC U-BOLT, GALVANIZED STL.				
22	2 6	3/8" LOCK WASHER, GALV. STL.				
23	3 12	3/8"-16NC HEX NUT, GALV. STL.				

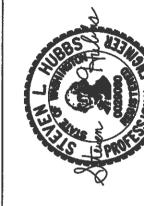
KEY NOTES:

DENOTES ITEM NUMBER, PER DETAIL BILL OF MATERIAL

E.H.S. EXTRA HIGH STRENGTH STRANDED GALVANIZED STEEL WIRE

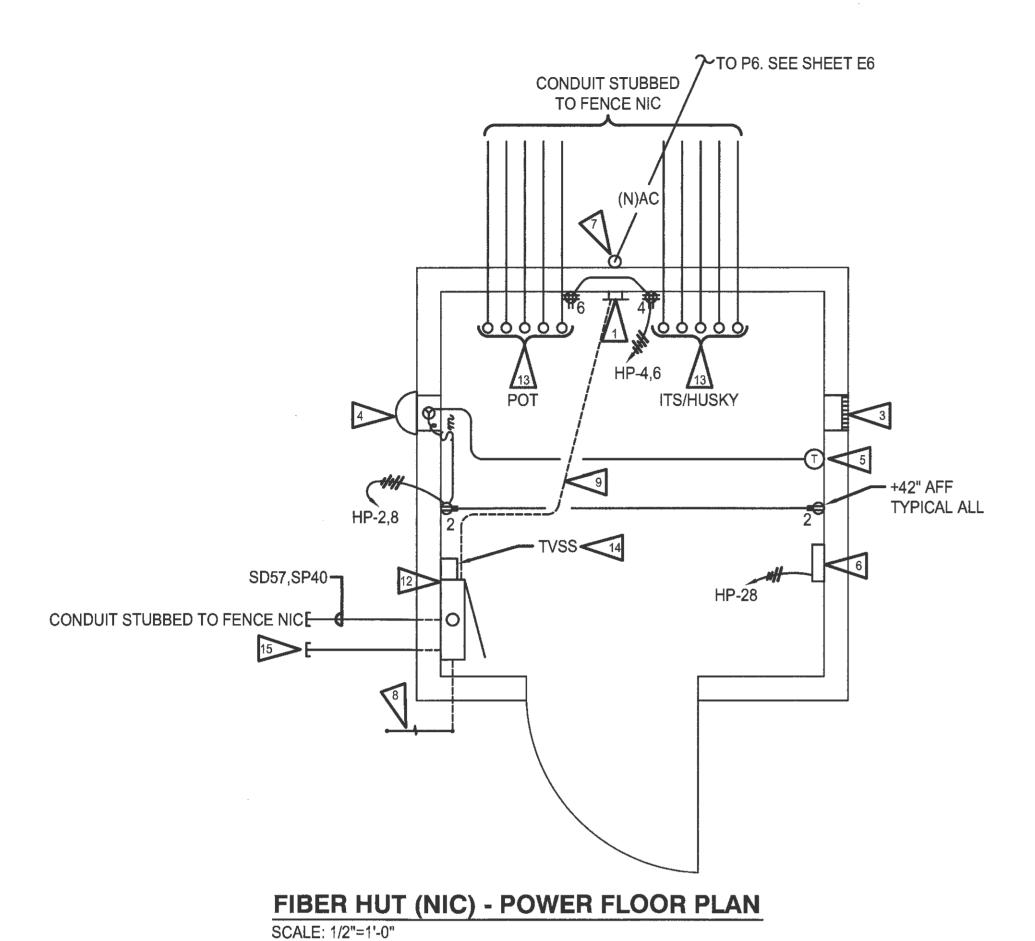
DENOTES TENSION OR COMPRESSION FORCE VECTOR, IN LBS.

Port of War	P.O. BOX 1837 TACOMA, WA 98401 (253)383-58	DATE:		
ہو	P.O. BOX 1837	APPR:		
'STREET 10 98101		BY:		
00 UNIVERSITY STREET SUITE# 610 SEATTLE, WA 98101 (206) 622-0222				MISSION



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SLH 12-09-19	CHECKED BY DATE	GLW 12-09-19	PROJ. ENGR DATE	ScottK Dec 09, 2019	SITCUM PLAZA
APPROVED:	An Suly 12/10/19	TREVOR THORNSLEY	DIRECTOR ENG. DATE PROJ. ENGR	PRINTED BY: ScottK	PORT ADDRESS: ONF SITCUM PLAZA
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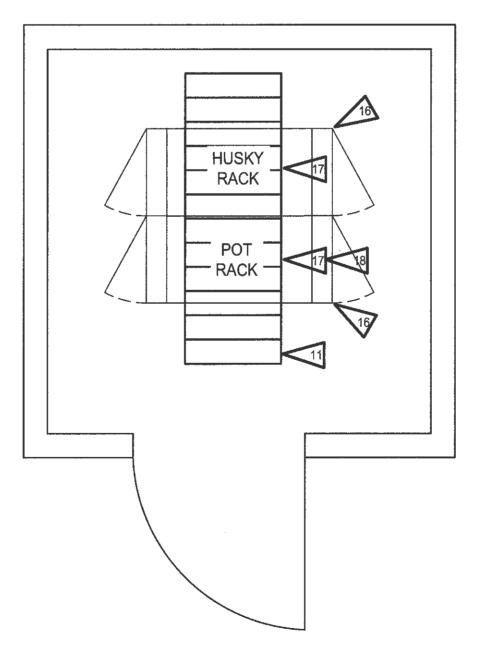


10,0	00 AIC		1 7	NEL S	<u> </u>	ILD	<u> </u>			
NO.	HP	LOCATION: HUT							40 VOLTS 1PH	
	111	SERVING: HUT						60 AMPS	WITH 60 MAIN	N BREAKER
CKT NO.	LO	AD DESCRIPTION	KVA	TRIP S	{	TRIP AMPS	KVA	LOA	D DESCRIPTION	ON CK
1	RECEP	T/LTS	.26	20 ~	F	~ 20	.36	RECEPT	ACLES	
3	SPARE				+		1.00	RACK		4
5	SPARE			~	╀	~	1.00	RACK		- (
7	SPARE			20 ~	+	~ 20	.10		TFAN	8
9	SPACE			~	+-	~		SPACE		10
11				~	+-	`				12
13				~	+					14
15				~	+	~			·	16
17				~	+					18
19					+					20
21				~	+					22
23	1			~	+			1		24
25	SPACE			^	+	` 		SPACE		26
27	TVSS		-	30/1	+	20/	1.50	HEATER		28
29				/2 ~		-/2				30
REN	//ARKS:				C	ONNEC	TED LO	AD:	4.2 KVA	18 AMPS
					D	EMAND	LOAD:		4.2 KVA	18 AMPS

PROVIDE HANDLE TIES FOR ALL MULTI-CIRCUIT HOMERUNS SHARING A NEUTRAL PER THE NATIONAL ELECTRIC CODE ARTICLE 210.4 MULTIWIRE BRANCH CIRCUITS, PART (B) DISCONNECTING MEANS. DRAWINGS ARE DIAGRAMMATIC. WHERE THE CONTRACTOR MODIFIES THE CIRCUITING, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL NEUTRAL PER CIRCUIT, MULTI-POLE CIRCUIT BREAKERS, OR CIRCUIT BREAKER HANDLE TIE TO MEET THE NEC ARTICLE. ALL COSTS ASSOCIATED WITH MODIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

10 10 10 HP-1

FIBER HUT (NIC) - LIGHTING FLOOR PLAN
SCALE: 1/2"=1'-0"



FIBER HUT (NIC) - CABLE TRAY, RACK FLOOR PLAN SCALE: 1/2"=1'-0"

ELECTRICAL NOTES:

NIC 1	PROVIDE COPPER BAR 13 1/4"x4"x1/4" WITH 3 PAIR 7/16" HOLES AND 19 PAIR 5/16"
	HOLES, ERICO TMGB-A14L15PT OR EQUAL.

NIC PROVIDE MOUNT SWITCH AND RECEPTACLE IN DOUBLE GANG JUNCTION BOX AT 42" AFF.

NIC 3 PROVIDE GREENHECK OR EQUAL AIR INTAKE VENT. SIZE AS RATED FOR EXHAUST FAN.

NIC 4 PROVIDE GREENHECK 060, 1725 CFM OR EQUAL

NIC 5 PROVIDE EXHAUST THERMOSTAT, 120V, SET AT 65° F. PROVIDE WIRING IN 3/4" EMT TO FAN.

NIC 6 PROVIDE KING ELECTRIC SL2422, 1500 WATT HEATER WITH INTEGRAL THERMOSTAT, SET AT 40° F. OR EQUAL

NIC 7 PROVIDE 4"C-PVCRS AERIAL MAST ATTACHED TO STRUCTURE WITH WALL PENETRATION FOR FIBER OPTIC CABLE TO RACKS.

NIC PROVIDE (2)3/4"x10' COPPER CLAD STEEL GROUND RODS SPACED 20' APART. #6
BARE CU TO PANEL.

NIC PROVIDE #6 BARE CU FROM PANEL GROUND TO GROUND BAR.

NIC 10 PROVIDE METALUX #4-SNLED-LD5-37SL-LW-UNV-L840-CD-1 OR EQUAL.

24" x 72" x 6" DEEP CABLE TRAY MOUNTED ABOVE COMMUNICATIONS CABINETS FROM STRUCTURE. POT IT FURNISHED CONTRACTOR INSTALLED.

PROVIDE SERVICE ENTRANCE (SUSE) PANEL, 120/240V, 1PH, 3W, 10,000 AIC, 60A MB, 30 CKT, WITH SEPARATE NEUTRAL AND GROUND BAR. SEE PANEL SCHEDULE FOR BRANCH CIRCUIT BREAKERS.

NIC 13 2" CONDUITS STUBBED 6" ABOVE FINISHED FLOOR.

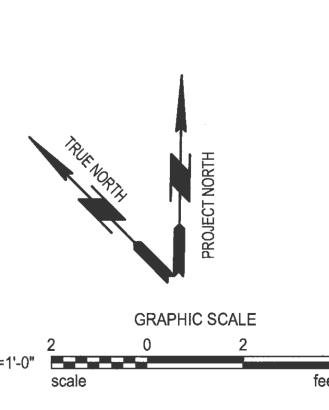
NIC 14 TVSS. SIEMENS #TPS3-A-11-15-D2 OR EQUAL.

NIC 15 3/4"C TO FENCE WITH #8 BARE CU SERVICE GROUND. PROVIDE 3/4"C x 10'-0" GROUND RODS AT TWO(2) FENCE CORNER POSTS.

POT IT FURNISHED RACKS. CONTRACTOR INSTALLED.

POT IT FURNISHED FIBER BULKHEADS (2)48 IN, 48 OUT AND FORTY(40) CLOSED CONNECTOR HOUSING(CCH) WITH LC ADAPTERS, SINGLE NODE(OS2), (6)LC DUPLEX ADAPTERS FOR 12-STRAND FIBER(8 PER PANEL) TO BE INSTALLED, TESTED AND LABELED BY CONTRACTOR.

POT RACK MOUNTED EQUIPMENT FURNISHED BY POT IT. INSTALLED, CONNECTED, TESTED AND LABELED BY CONTRACTOR: (1)UPS (2)MODEL 9300 SWITCHES (4)10GB SFP + FOR SWITCH UPLINKS (9)LC SFP LC-1GB-LX





600 UNIVERSITY STREET
SUITE# 610
SEATTLE, WA 98101
(206) 622-0222
P.O. BOX 1837 TACOMA, WA 98401
:
BY: APPR: DATE:

MARK: REVISION:

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THORN'SLEY | CLW 12-09-19

RENG. DATE | PROJ. ENGR DATE
BY: Scottk Dec 09, 2019

DRESS: ONE SITCUM PLAZA

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DIRECTOR IT

SECTION: 34

PRINTED BY

9.39' ® TIDE 22 1933
PORT ADDRING SCALE: AS NOTED

FIBER TO LOT F

LOT F FIBER HUT PLAN AND

WNSHIP: 21N RANGE: 3E

AT—HRZ: WA83—SF VERT: MLLW 19.

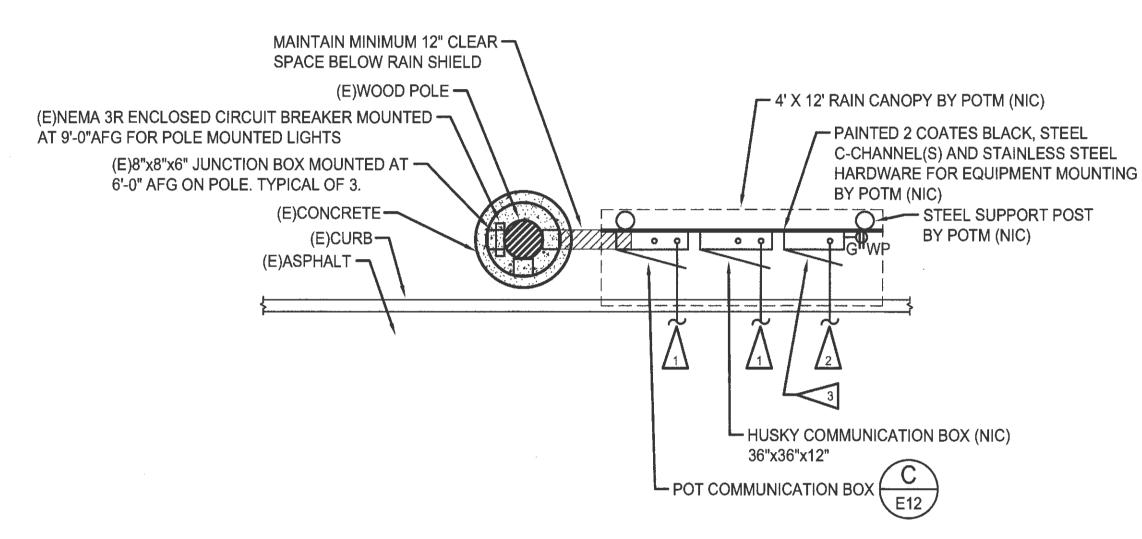
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ELECTRICAL NOTES:

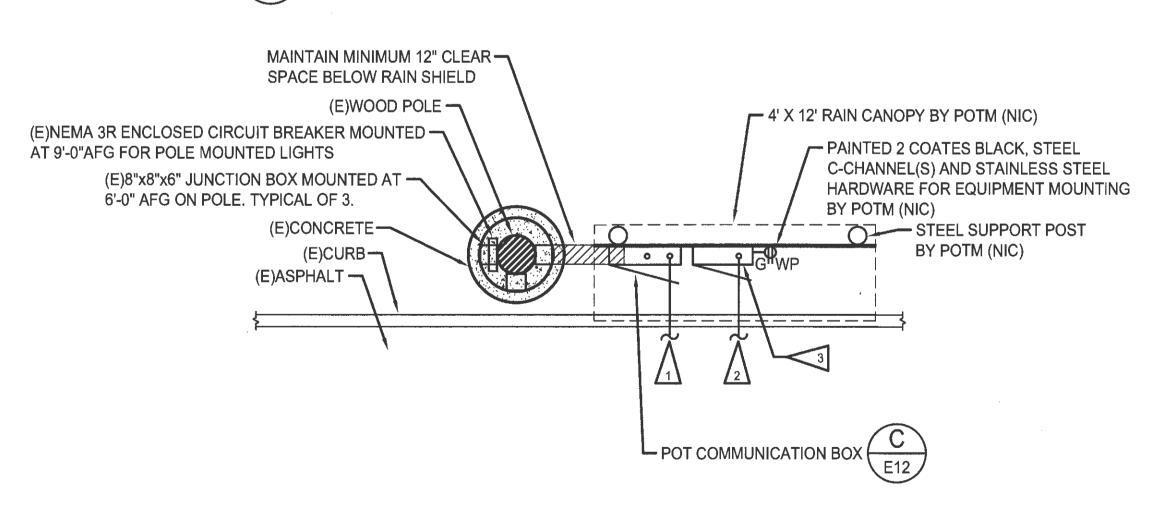
TWO (2) 2" C STUBBED 5' PAST EXISTING CURB. SAW CUT CURB, ASPHALT AND REMOVE (BY POTM). FO CABLE AND TERMINATION BY PORT CONTRACTOR FOR POT COMMUNICATION BOX AND BY ITS/HUSKY SITE CONTRACTOR FOR ITS/HUSKY COMMUNICATIONS BOX.

ONE (1) 1"C STUBBED 5' PAST EXISTING CURB. SAWCUT CURB, ASPHALT, AND REMOVE (BY POTM), POWER CABLES BY ITS/HUSKY SITE CONTRACTOR POLES 2 AND 5. POWER CABLES BY POT CONTRACTOR POLES 9 AND 12.

5KVA, NEMA 3R, 316 STAINLESS STEEL UNIT SUB, 480V, 1PH TO 120/240V, 1PH WITH TWELVE(12) CIRCUIT BREAKER SPACES AND SIX(6), 20/1P CIRCUIT BREAKERS BY CONTRACTOR. PROVIDE PAINTED 3/4"C-(2)#12 CU & (1)#12 CU GRD, CAST 4 SQUARE BOX WITH 125V, 20A, GFI RECEPTACLE AND NEMA 3R "IN USE" COVER BY ITS/HUSKY CONTRACTOR POLES 2 AND 5. POLES 9 AND 12 BY PORT CONTRACTOR.



A POWER/COMMUNICATIONS AT POLES 2 AND 5 E12 NO SCALE



B POWER/COMMUNICATIONS AT POLES 9 AND 12
E12 NO SCALE

EQUIPMENT SCHEDULE

- NEMA 4X, 316 STAINLESS STEEL, 36"x36"x12"D, HINGED, LATCHING AND PAD LOCKABLE COMMUNICATIONS CABINET. CONTRACTOR PROVIDED.
- DIN BAR(S) FOR MOUNTING EQUIPMENT INTERIOR TO COMMUNICATIONS CABINET. CONTRACTOR PROVIDED.
- POINT TO POINT POT IT FURNISHED CONTRACTOR INSTALLED:
 (1)ANTENNA SET
 (1)POWER SURBLY

(1)POWER SUPPLY (1)MEDIA CONVERTER (1)SFP LC-1GB-LX

(1)SFP LC-1GB-LX

4 LS ANTENNA POT IT FURNISHED CONTRACTOR INSTALLED AT P2 AND P5: (1)LS ANTENNA (1)POE POWER SUPPLY (1)MEDIA CONVERTER

CAST 3-GANG BOX WITH COVER, MOTOR RATED TOGGLE SWITCH (ACCESS POINT POWER DISCONNECT) AND (2)20A, 125V DUPLEX RECEPTACLES. CONTRACTOR PROVIDED. FIBER PATCH CORDS AND (2)CLOSET CONNECTOR HOUSING(CCH) WITH LC ADAPTERS, SINGLE MODE(OS2), (12)LC DUPLEX ADAPTERS FOR 24 STRAND FIBER, UPC.

6 FIBER BULKHEAD, POT IT FURNISHED, CONTRACTOR INSTALLED.

(7) GROUND BAR. CONTRACTOR PROVIDED.

(1)CAMERA MOUNT ADAPTER

(1)CAMERA MOUNT ADA (1)CAMERA DOME (1)CAMERA MOUNT

(1)CAMERA (1)POWER SUPPLY

(1)MEDIA CONVERTER (1)SFP LC-1GB-LX

O CAST 2-GANG BOX WITH COVER, MOTOR RATED TOGGLE SWITCH (CAMERA POWER DISCONNECT) AND 20A, 125V, DUPLEX RECEPTACLE. CONTRACTOR PROVIDED.

WIRELESS ACCESS POINTS POT IT FURNISHED CONTRACTOR
INSTALLED AT P2, P5, P9, P12:
(1)CISCO 1572 ACCESS POINT
(1)SFP LC-1GB-LX



LE, WA 98101

LE, WA 98101

) 622-0222

P.O. BOX 1837 TA

BY: APPR:

SUN SEATTLE (206)

(206)

(K: REVISION:

MARK: REVISION:

PINON THE PROPERTY OF THE PROP

TREVOR THORNSLEY

OIRECTOR ENG. DATE

PRINTED BY: Scottk Dec 09, 20

33 PORT ADDRESS: ONE SITCUM PLA

PORT OF TACOMA FIBER TO LOT F

TIDEN IO LOIN

ELECTRICAL DETAIL

TOWNSHIP: 21N RANGE: 3E

DAT—HRZ: WA83—SF VERT: MLLW 19.

PARCEL: DRAWIN

6636

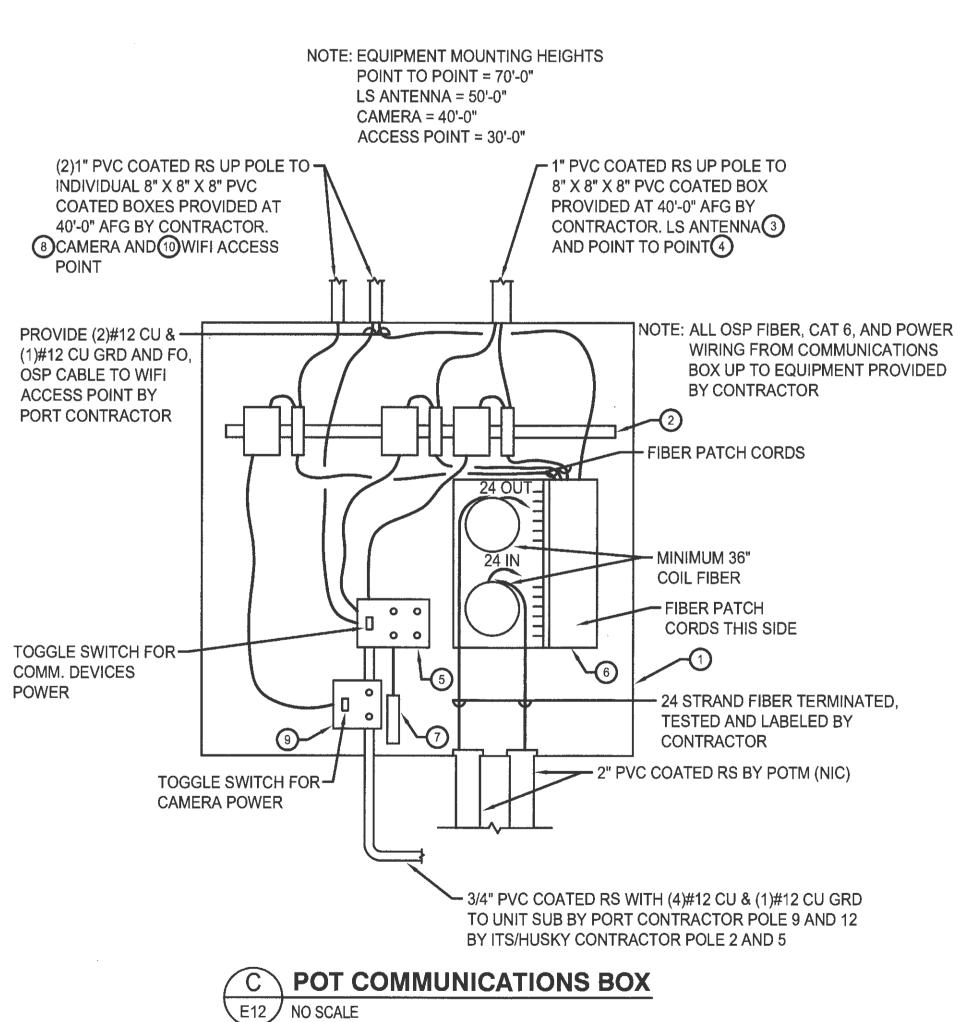
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20 OF 22

NT/CONS: 071169
ID: 101286-01
ASE: BID SET

CROSS ENGINEERS, INC

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Tacoma, WA 98405
info@crossengineers.com

Phone: (253) 759-0118
Job Number: 19-070

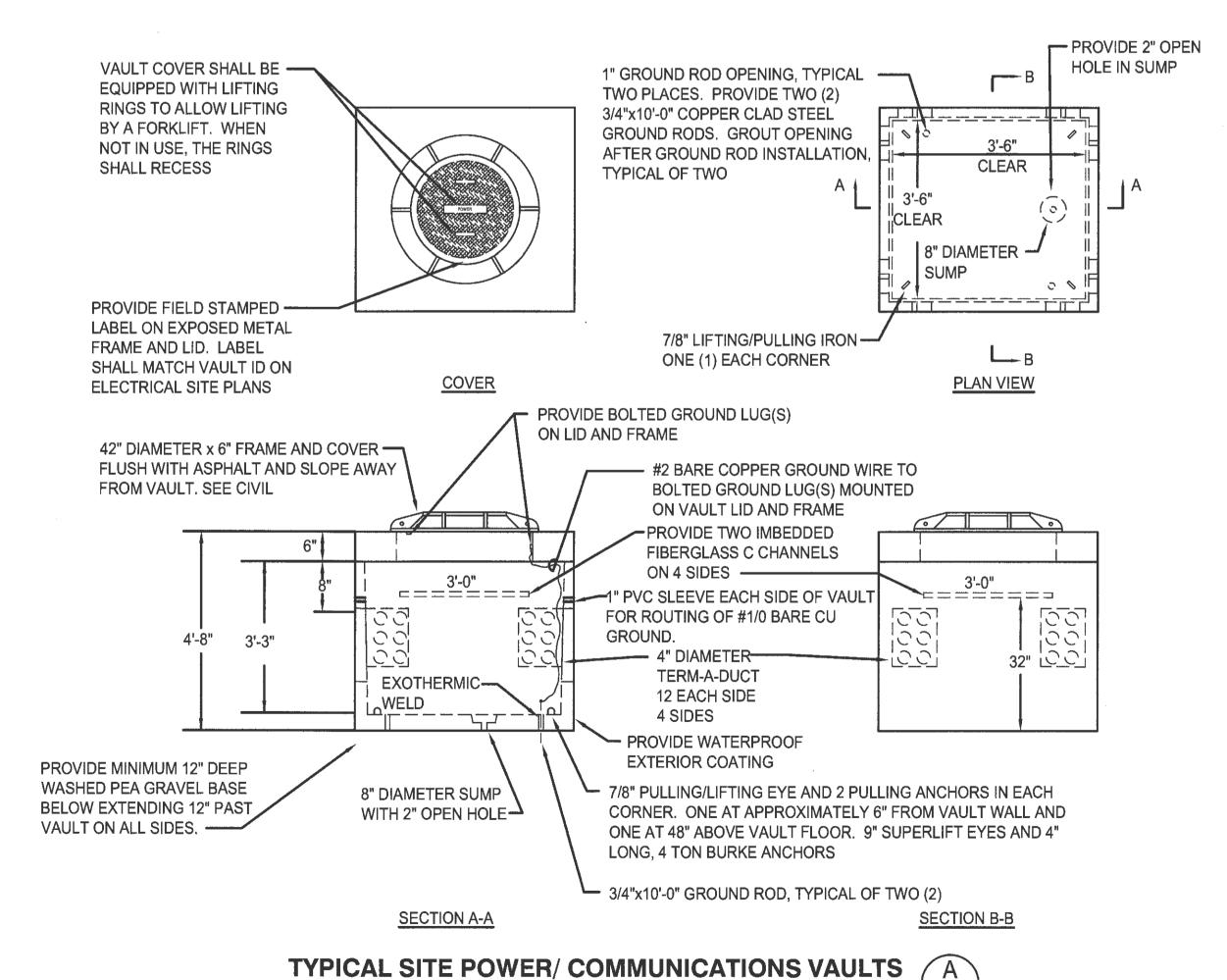


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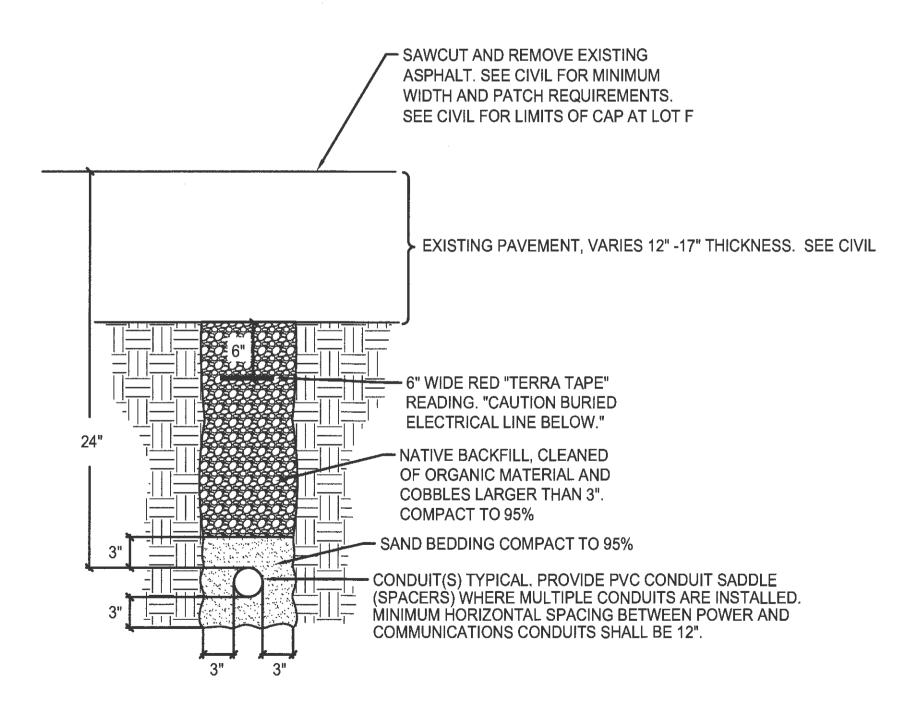
VAULT SCHEDULE								
ID	DESCRIPTION	LOADING	NOTES					
PV4A,PV8A	CUSTOM 600V POWER VAULTS, SEE DETAIL A, THIS SHEET BY POT CONTRACTOR	MINIMUM 125 KIP.	1 234					
CV4A,CV8A	CUSTOM COMMUNICATION VAULT SEE DETAIL A, THIS SHEET BY POT CONTRACTOR	MINIMUM 125 KIP.	10034					
SV116A	CUSTOM COMMUNICATION VAULT SEE DETAIL A, SHEET E9 BY POT CONTRACTOR	MINIMUM 125 KIP.	0034 66					
SV116D	CUSTOM COMMUNICATION VAULT SEE DETAIL A, SHEET E9 BY POT CONTRACTOR	TRAFFIC RATED H25	0234 66					

VAULT SCHEDULE NOTES:

- ALL CONDUITS (2" AND LARGER) ENTERING OR LEAVING VAULTS SHALL USE TERM-A-DUCTS. ALL 3/4" AND 1" CONDUITS ENTERING OR LEAVING VAULTS MAY USE BLOCK-OUTS WITH BELL ENDS AND GROUTED. PROVIDE REMOVABLE FOAM FILL IN ALL EMPTY CONDUIT OPENINGS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS. PROVIDE MAXCELL EDGE DETECTABLE MXC2003 (3 CELL) OR EQUAL IN ALL FOB LABELED COMMUNICATIONS CONDUITS. ITS/HUSKY CONTRACTOR SHALL PROVIDE CONDUIT LABELS FOR ALL CONDUITS ENTERING AND LEAVING VAULTS. PROVIDE PHENOLIC LABEL ATTACHED TO VAULT WALL WITH TWO (2) PLASTIC INSERTS AND STAINLESS STEEL SCREWS ADJACENT TO EACH CONDUIT. PHENOLIC LABEL SHALL HAVE CONDUIT ID ENGRAVED AS INDICATED ON CONDUIT AND WIRE SCHEDULE DRAWINGS.
- SEE SPECIFICATION SECTION 26 71 19 FOR ADDITIONAL VAULT INSTALLATION REQUIREMENTS.
- 3 ALL WIRE (POWER AND COMMUNICATIONS) SHALL COMPLETELY LOOP AROUND VAULT WALLS PRIOR TO EXITING VAULT.
- ONTRACTOR SHALL PROVIDE CAST LABEL ON LID TO READ "ELECTRIC" OR "COMMUNICATIONS". PROVIDE FIELD STAMPED LABEL ON LID WITH VAULT ID TO MATCH ELECTRICAL SITE PLANS.
- PROVIDE BOLTED GROUND LUG(S) ON LID AND FRAME. PROVIDE #2 BARE CU GROUND IN EACH VAULT TO TWO (2) 3/4" X 10'-0" GROUND RODS.
- 6 PROVIDE STENCIL PAINTED, VAULT KIP RATING ON INSIDE OF VAULT DIRECTLY BELOW LID. MINIMUM 4" HIGH LETTERS.



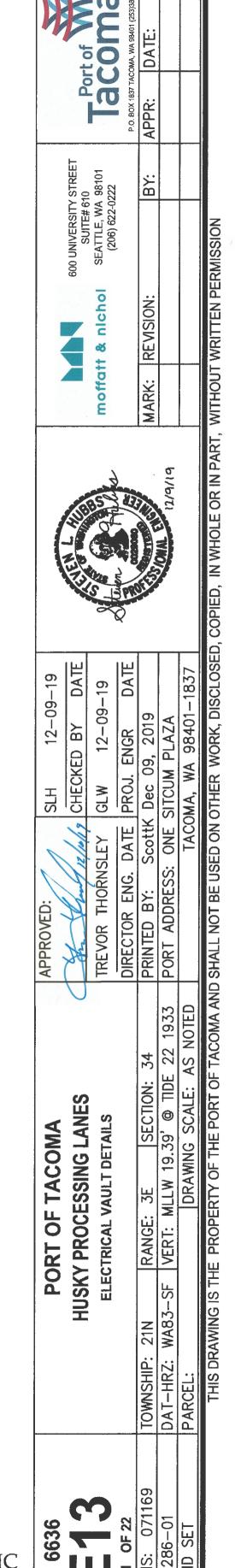
NOT TO SCALE



POWER/COMMUNICATIONS TRENCH - TYPICAL

NOT TO SCALE





	CONDUIT AND CONDUCTOR SCHEDULE								
CIRCUIT		CONDUIT		CONDUC	CTORS PER	R CONDUIT			
ID	NO.	SIZE	TYPE	NO.	SIZE	TYPE	FROM:	ТО	REMARKS
FOB2 FOB3	5 2	2 2	2 24	6	-	-	HUT POT RACK CV11	CV11 POLE 6	(4) (3) (4)
FOB4	8	2	2	0		-	CV11	CV10	Ŏ
FOB6 FOB7	8	2	2	6		-	CV10 CV7	CV7 CV8	(1) (1)
FOB10	8	2	0	0					
FOB11	8	2	2	6	-	-	CV7 CV6	CV6 CV5	(15) (15) (15) (15)
FOB12 FOB13	8	2	② ②	6	-	-	CV5 CV3	CV3 CV4	(B)
FOB18	2	2	2	6	-	-	CV8	CV8A	(4)(5)
FOB19 FOB20	2	2	② ②	6	-	-	CV8A CV7	POT COMM BOX POLE 9 HUSKY COMM BOX POLE 5	@ ®
FOB21	2	2	2	6	-	-	CV7	POT COMM BOX POLE 5	14 (15)
FOB23 FOB24	2	2	2	6	-	-	CV5 CV4	POT COMM BOX POLE 2 CV4A	(i) (i) (i)
FOB25	2	2	2	6	-	-	CV4A	POT COMM BOX POLE 12	19
SD58 SD59	1	1	2 4	2/1 2/1	8/10 8/10	600V 600V	PANEL 4A PV4	PV4 PV4A	
SD60	1	1	<u> </u>	2/1	8/10		PV4A	UNIT SUB POLE #12	
SD73	1	1	20	2/1	8/10	600V	PANEL 4B	PV8	
SD74 SD75	1	1	2	2/1 2/1	8/10 8/10	600V 600V	PV8 PV8A	PV8A UNIT SUB POLE #9	
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					and the state of t				
					110000				

SCHEDULE ABBREVIATION LEGEND:

C = COMMUNICATIONS

SECONDARY POWER VAULT

COMMUNICATIONS VAULT

SITE LIGHTING

FOB = FIBER OPTIC

SPARE CONDUIT

SECONDARY 600V DISTRIBUTION

PROVIDE LABELING PER ----

SPECIFICATION SECTION 26 05 53

UNIT SUB, ETC.)

SOURCE POINT (I.E. SWITCH #, PANEL/

FIBER OPTIC CABLE AND

CONDUCTOR IDENTIFICATION LABEL A

CIRCUIT #, LIGHTING CONTROL CIRCUIT, ETC.)

END POINT (I.E. LIGHT POLE #, WOOD POLE #,

SECURITY CAMERAS

0

0

NOT TO SCALE

TACOMA PUBLIC UTILITIES

CABLE TIE HOLES, ——

TYPICAL OF FOUR (4)

WHERE-PORT COMMUNICATIONS

E14/

MAXCELL MXC2003 OR EQUAL. POT FURNISHED CONTRACTOR INSTALLED.

O COORDINATE AND INSTALL FIELD WIRING FOR SCALES

8 NOT USED.

9 NOT IN CONTRACT (NIC)

 REVIEW AND COORDINATE WITH TRUCK INTERCOM MANUFACTURER'S SHOP DRAWINGS. STUB PVC CONDUIT 2" ABOVE TOP OF CONCRETE, WITH 18" WIRE LOOP FOR CONNECTION TO RECEPTACLE BY INTERCOM CABINET SUPPLIER. SEE CIVIL.

12 REVIEW AND COORDINATE POWER CONNECTION WITH

 PROVIDE WATER TIGHT SPLICE(S) IN VAULT FOR GROUND WIRE. PROVIDE GROUND WIRE IN INDIVIDUAL CONDUITS TO EACH T-POLE, CHASSIS CAMERA PEDESTALS AND TRUCK INTERCOM PEDESTALS. SEE CIVIL.

TUBE, SINGLE JACKET FIBER CABLE IN SINGLE CELL OF INNER DUCT.

(15) PROVIDE OUTSIDE PLANT (OSP), 24 FIBER COUNT, LOOSE TUBE, SINGLE JACKET FIBER CABLE IN SINGLE CELL OF

SCHEDULE NOTES:

1 EXISTING CONDUIT

2 PVC SCHEDULE 80

3 STUB AND CAP AT TOP OF CONCRETE BASE.

4 PVC COATED GRS CONDUIT

5 STUB AND CAP 12" ABOVE FINISHED GRADE.

6 PROVIDE MAXCELL EDGE DETECTABLE 3 CELL INNER DUCT.

SUPPLIED WITH SCALE EQUIPMENT.

11 STUB CONDUIT MINIMUM 6" ABOVE OCR PARTIAL FOUNDATION. LEAVE MINIMUM 24" LOOP OF POWER WIRE FOR EXTENSION BY OCR EQUIPMENT PROVIDER. SEE CIVIL.

GATE ARM MANUFACTURER. COMMUNICATION'S WIRING BY GATE ARM MANUFACTURER. SEE CIVIL.

PROVIDE OUTSIDE PLANT (OSP), (2)24 FIBER COUNT, LOOSE

INNER DUCT.

