

Conservation and Natural Resources Surface Water Management

> 3000 Rockefeller Ave., M/S 303 Everett, WA 98201-4046 (425) 388-3464 www.snoco.org

> > Dave Somers County Executive

Re: Smith Island As-Built Survey

Dear Mr. Kopp:

October 25, 2022

The Smith Island Estuary Restoration Project included construction of a setback dike in the first phase of construction, and breaching the existing dike in the second phase of construction. Attached are the as-built drawings that were prepared following construction of the setback dike. An as-built survey of the setback dike was completed in 2017 at the end of dike construction.

A Letter of Map Revision application to FEMA is being prepared for the Smith Island Estuary Restoration project. I certify that the survey data represents the as-built elevations of the setback dike as indicated on the attached as-built drawings.



Sincerely,

Dave Stewart, P.E. Engineer IV, Snohomish County Surface Water Management



SMITH ISLAND ESTUARY RESTORATION SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS RR49206 PHASE 1 MAY 2015

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ad By: otak May 06, 2015 - 5:29pm



VICINITY MAP



Snohomish County Officials

DIRECTOR OF PUBLIC WORKS STEVEN E. THOMSEN, P.E.

COUNTY ENGINEER

OWEN B. CARTER, P.E.

JOHN LOVICK

COUNCIL MEMBERS

KEN KLEIN – DIST.	1
BRIAN SULLIVAN – DIST.	2
STEPHANIE WRIGHT - DIST.	3
TERRY RYAN – DIST.	4
DAVE SOMERS - DIST.	5

GENERAL NOTES

V

XREF LIST

Ltscale: 1

Resolved

ttl**b**lk

GSLSEAL

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2014 EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/AMERICAN PUBLIC WORKS ASSOCIATION (WSDOT/APWA) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND CURRENT AMENDMENTS (AS AMENDED BY THE SNOHOMISH COUNTY GENERAL PROVISIONS AND THE PROJECT SPECIAL PROVISIONS) AND THE 2012 SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS (EDDS).
- 2. ALL DRAINAGE AND GRADING WORK SHALL COMPLY WITH TITLE 30 OF THE SNOHOMISH COUNTY CODE (SCC)
- 3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR AS SHOWN ON THE PLANS.
- 4. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND AVOID OTHER UTILITIES NOT SHOWN ON THE PLANS. EXISTING UTILITIES SHALL BE PROTECTED, SUPPORTED, OR MAINTAINED DURING CONSTRUCTION.
- 5. CONTACT THE UNDERGROUND UTILITIES LOCATION SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 6. ALL WORK SHALL BE IN ACCORDANCE WITH PERMIT REQUIREMENTS FOR EROSION CONTROL AND DEWATERING. REFER TO SPECIFICATIONS FOR PERMIT REQUIREMENTS.

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2015 -						
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May					GSL, DAS	
ted:					FIELD BOOK(S):	
ş	DATE	NO.	REVISION	BY		

RECOMMENDED CONSTRUCTION SEQUENCE

- 1 SUBVEY AND FLAG LIMITS OF CLEADING AND EVOLVATION DDIOD TO STADE OF

CONSTRUCTION. LOCATE LIMITS OF CLEARING AND EXCAVATION PRIOR TO START OF CONSTRUCTION. LOCATE LIMITS BY APPROXIMATE DIMENSIONS AND LOCATIONS SHOWN	EDGE OF PAVEMENT (EXISTING)
ON THE STE PLANS.	CURB/CONCRETE EXISTING
2. SURVEY AND STAKE PROPOSED IMPROVEMENTS.	DITCH CENTERLINE (EXISTING)
3. PROVIDE TRAFFIC CONTROL DEVICES, SIGNS, FLAGGERS, ETC. AS REQUIRED FOR TRAFFIC CONTROL PRIOR TO CONSTRUCTION.	
4. INSTALL TESC MEASURES AT LOCATIONS SHOWN ON THE SITE PLANS.	FENCE (PROPOSED)
5. FOR IN-WATER WORK, INSTALL FISH EXCLUSION SCREENS AND COORDINATE WITH	GRAVEL (EXISTING)
COUNTY STAFF. COUNTY STAFF WILL REMOVE FISH FROM THE ISOLATED WORK AREA.	
6. CONSTRUCT IMPROVEMENTS AS SHOWN ON PLANS AND SPECIFICATIONS.	SC S
7. REMOVE TESC MEASURES AND FISH SCREENS AFTER DISTURBED AREAS HAVE BEEN STABILIZED.	
	CONTOUR (MINOR-EXISTING)
UTILITY COORDINATION NOTES	CONTOUR (MAJOR-PROPOSED)
REFER TO GENERAL NOTES FOR ADDITIONAL UTILITY INFORMATION.	
1. UTILITY PROVIDERS THAT MAY BE AFFECTED BY THE PROPOSED	SECTION LINES
IMPROVEMENTS SHALL BE NOTIFIED IN ADVANCE OF CONSTRUCTION.	QUARTER SECTION LINES
2. A LIST OF THE UTILITY PROVIDERS IS PROVIDED BELOW.	JURISDICTIONAL BOUNDARY
GAS POWER	—————————————————————————————————————
DAVID MATULICH CRAIG SIMPSON	CULVERT (PROPOSED)
BELLEVUE, WA 98009–9734 1802 75th STREET SW	FO FO FIBER OPTIC
$\begin{array}{c} (425) \ 424 - 6442 \ (EXT \ 81 - 6442) \ EVERETT, WA \ 98206 - 1107 \\ CELL \ NO. \ (425) \ 214 - 3020 \ (425) 783 - 8279 \\ \end{array}$	OVERHEAD POWER LINE
TELECOMMUNICATIONS	PPPP
COMCAST FRONTIER	SYMBOL
CASEY BROWN TIM RENNICK 1525 75TH ST SW #200 1800 41ST AVE WA 010406	EXIST. PROPOSED DESCRIPTION
EVERETT, WA 98203 EVERETT, WA 98206 (425) 754–0064 (425) 263–4025	Y EMBANKMENT
	N/A UTILITY POLE
	N/A TARD LIGHT N/A POTHOLE
	N/A MONUMENT IN CASE
ABBREVIATIONS	
PPROX – APPROXIMATELY N – NORTH	N/A SECTION CORNER
C – CURVE NAV88 – NORTH AMERICAN VERTICAL DATUM OF 1988	STORM DRAIN CB TYPE 2
CB - CATCH BASIN NTS - NOT TO SCALE CONC - CONCRETE NW - NORTHWEST	
CPEP - CORRUGATED POLYETHYLENE PIPE OC - ON CENTER CULV - CULVERT OD - OUTSIDE DIAMETER	STORM DRAIN MANHOLE (SIZED) CB TYPE 1
DBH - DIAMETER AT BREAST HEIGHT OHW - ORDINARY HIGH WATER DF - DITCH FILL OHWM - ORDINARY HIGH WATER MARK	N/A TEMPORARY GRAVEL BAG BERM
DIAM – DIAMETER PC – POINT OF CURVATURE DIP – DUCTILE IRON PIPE PI – POINT OF INTERSECTION	N/A ASPHALT CONCRETE PAVEMENT
E – EAST PP – PLAN AND PROFILE EA – EACH PP – POWER POLE	
ELEV – ELEVATION PT – POINT OF TANGENCY ELEV – ELEVATION R – RADIUS	N/A CONCRETE
EOP - EDGE OF PAVEMENT R/W - RIGHT OF WAY EX - EXISTING RT - RIGHT	N/A GRAVEL FILTER
FM - FORCE MAINSD - STORM DRAINFT - FEETSE - SOUTHEAST	N/A QUARRY SPALLS
HDPE – HIGH DENSITY POLYETHYLENE PIPE SL – SLOPE IE – INVERT ELEVATION STA – STATION	
JBOX – JUNCTION BOX STD – STANDARD L – LINE SEGMENT STR – STRUCTURE	N/A 20205 RIPRAP
LF — LINEAL FEET SW — SOUTHWEST LT — LEFT SWPP — STORMWATER POLLUTION PREVENTION PLAN	N/A SAND FILTER
LUM – LUMINAIRE TESC – TEMPORARY EROSION AND SEDIMENT CONTROL MAX – MAXIMUM TYP – TYPICAL	N/A SUBGRADE/FARTH
MH – MANHOLE W – WEST MIC – MONUMENT IN CASE WM – WILLIAMETTE MERIDIAN	
MIN — MINIMUM Q — FLOW	N/A TOP SOIL CALL BEFORE YOU DIG
OJ. NO. SURVEY NO.	OVED BY: SNOHOMISH COUNTY SMITH ISLAND SHEET NO.
	DEPARTMENT OF ESTUARY RESIDEATION LAOT
AWN BY: OWEN B. CARTER,	P.E. PUBLIC WORKS
UPI# SNOHOMISH COUNTY E	IFGEND/GENERAL NOTES

pr 24, 2015 – 5:50pm PROJ. NO. SURVEY N	otak		REVIEWED AND APPROVED BY:	SNOHOMI DEPAR
DRAWN BY: AK		THE PERSON AND AND AND AND AND AND AND AND AND AN	OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER	PUBLI
UPI # 12-0171-1	HanmiGlobal Partner	STONAL ENGLISS.7.15	DATE APPROVED:	PROJ

LEGEND

LINETYPE

DESCRIPTION

XREF_LIST___ Ltscale: 1 _____ Resolved TTLBLK GSLSEAL ____



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	HORIZONTAL AND VERTICAL CONTROL							
\bigotimes	NORTHING	EASTING	ELEVATION	DESCRIPTION				
1	370355.70	1312067.59	35.36	SNOHOMISH COUNTY CP #1 BD GW31005-74				
2	370404.48	1312558.20	20.42	SNOHOMISH COUNTY CP #2 IP 2905J11				
3	370371.67	1313068.49	5.76	SNOHOMISH COUNTY CP #3 MAG WSHR321/1661				
4	370393.64	1315238.24	3.59	SNOHOMISH COUNTY CP #6 STONE 341/1661				
5	375631.32	1312536.12	4.08	SNOHOMISH COUNTY CP #7 IP 481/1661				
6	370368.61	1312055.42	33.88	SNOHOMISH COUNTY CP #8 MIC 371/1661				
7	370363.29	1314882.20	4.23	SNOHOMISH COUNTY CP #9 SPK 741/1644				
8	375558.66	1315149.56	8.63	SNOHOMISH COUNTY CP #10 IP 221/1739				

XREF LIST Ltscale: 1

_____ Resolved TTLBLK GSLSEAL 3784-TOPO 3784-BASE 3784-PRJL 3784-FROMGIS

SETBACK DIKE ALIGNMENT						
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA	
L100	10+00.00	201.66'		N36°46'34"E		
C100	12+01.66	680.59'	1900.00'	N26"30'51"E	20"31'25"	
L101	18+82.25	1485.82'		N16"15'09"E		
C101	33+68.06	282.88°	320.00'	N9°04'20*W	50"38'58"	
L102	36+50.94	971.77°		N34°23'49"W		
C102	46+22.72	95.57'	1180.00'	N32'04'37"W	4"38'25"	
L103	47+18.28	524.03'		N29'45'24"W		
C103	52+42.31	36.54'	340.00'	N26°40'40"W	6 [.] 09'29"	
L104	52+78.85	9.82'		N23'35'56 ' W		
C104	52+88.68	1220.49'	1150.00'	N6'48'18"E	60°48'28"	
L105	65+09.17	292.02°		N37'12'32"E		

EXISTING DIKE ALIGNMENT						
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA	
C1	200+00.00	88.94'	301.73'	N44°22'52"E	16'53'16"	
. L1	200+88.94	53.15'		N35'56'14"E		
C2	201+42.08	59.57	335.81'	N41'01'10"E	10°09'52"	
C3	202+01.66	69.38'	83.61'	N22"19'51"E	47'32'31"	
L2	202+71.03	109.68'		N1'59'03"W		
C4	203+80.71	85.26'	766.18'	N5 10'20"W	6°22'34"	
C5	204+65.98	30.92'	256.78'	N11°48'37"W	6"53'59"	
C6	204+96.90	109.38'	163.79'	N3'52'14"E	38 15 41 "	
C7	206+06.27	36.74'	408.70'	N25'34'37"E	5'09'04"	
C8	206+43.02	77.97'	202.21'	N17'06'20"E	22.05,38"	
L3	207+20.99	65.48'		N6'03'31"E		
C9	207+86.47	36.32'	159.41'	N0"28'06"W	13'03'14"	
C10	208+22.79	59.94'	116.52'	N7°44'33"E	29 ° 28'33"	
C11	208+82.74	38.29'	140.65'	N30'16'43"E	15'35'48"	
C12	209+21.02	33.61'	54.97'	N20"33'50"E	35'01'33"	
L4	209+54.63	282.32'		N19'41'32"E		
L5	212+36.95	179.53'		N26°27'31"E		
L 6	214+16.48	196.35'		N26'21'26"E		
L7	216+12.83	58.38'		N20'23'26"E		
C13	216+71.21	26.03'	447.18 '	N18'43'23"E	3°20'06"	

EXISTING DIKE ALIGNMENT						
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA	
C14	216+97.23	34.98'	49 .16'	N3'19'41"W	40'46'01"	
L8	217+32.21	147.60'		N40'56'43"W		
C15	218+79.82	95.59'	169.85'	N57'04'03"W	32 14 41 "	
C16	219+75.41	73.72'	404.59'	N78°24'36"W	10°26'24"	
C17	220+49.13	57.18'	181.71'	N74"36'54"W	18°01'46"	
L.9	221+06.30	251.59 '		N58"31'40"W		
C18	223+57.89	66.48'	117.49'	N42 19'09"W	32.25,02*	
C19	224+24.37	32.24'	48.89'	N7 13'18"W	37'46'40"	
C20	224+56.61	123.25'	199.55 '	N6'01'35"W	35'23'14"	
C21	225+79.85	65.72'	74.85'	N1°25'54"E	50°18'13"	
C22	226+45.57	75.32'	403.13'	N31'56'10"E	10°42'18"	
L10	227+20.89	89.84'		N48'04'23"E		
C23	228+10.73	118.06'	406.84'	N 39'45'35 "E	16°37'36*	
L11	229+28.79	74.06'		N31°24'23"E		
L12	230+02.85	63.59'		N21°42'41"E		
L13	230+66.44	93.72'		N27'33'41"E		
C24	231+60.17	26.99'	102.15'	N19'59'32"E	15°08'17"	
C25	231+87.16	83.35'	258.41'	N21°39'48"E	18"28'48"	
C26	232+70.50	74.18'	164.17'	N17'57'31"E	25°53'22"	
C27	233+44.68	64.71'	160.83'	N16'32'29"E	23'03'18"	



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DATE	NO.	REVISION	BY		

A PORTION OF SECTIONS 9,10,15,&16, TOWNSHIP 29 NORTH, RANGE 05 EAST, W.M.

EXISTING DIKE ALIGNMENT								
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA			
C28	234+09.40	62.61'	380.42'	N32'47'00"E	9'25'45"			
C29	234+72.00	41.90'	68.02'	N19'50'58"E	35°17'50"			
L14	235+13.91	85.88'		N18'34'53"E				
L15	235+99.79	61.19'		N20"42'39"E				
L16	236+60.98	73.47'		N26"16'20"E				
C30	237+34.45	149.66'	342.57'	N13'45'26"E	25°01'48"			
L.17	238+84.11	276.68'		N1°14'31"E				
C31	241+60.79	74.34'	168.21'	N11'25'10"W	25°19'23"			
C32	242+35.13	108.17	173.11'	N6"10'45"W	35°48'12"			
L18	243+43.30	178.40'		N2'02'49"E	ar anna an an Arabana a			
C33	245+21.70	17 4.07 °	1167.08'	N6'19'12"E	8'32'45"			
C34	246+95.77	112. 46 °	1311.44'	N8'08'10"E	4'54'48"			
C35	248+08.23	101.16"	211.33'	N8'01'59"W	27°25'30"			
C36	249+09.39	256.55'	685.85'	N32°27'42"W	21°25'55"			
L19	251+65.94	183.56'		N59'02'34"W				
C37	253+49.50	193.58 [°]	1496.78'	N55'20'15"W	7"24'37"			
L 20	255+43.08	344.96'		N50°00'54"₩				
C38	258+88.04	32.00'	158.06'	N44'12'55"W	11*35'59"			
C39	259+20.04	60.77'	62.56'	N66"14'41"W	55°39'32"			
L21	259+80.82	195.26'		N76'14'44"W				

FYISTING	DIKE		
CAIJIING	UINE	ALIVIN	AEIN

NUMBER	STATION	LENGTH	RADIUS	BEARING	
L22	261+76.08	282.59'		N75*52'36"₩	
L23	264+58.67	493.41'		N78 [.] 14'59"W	
C40	269+52.08	123.52'	354.90'	N88°13'12"W	
C41	270+75.60	47.96'	68.38'	S61°43'03"W	
L24	271+23.55	82.90'		S50°23'36*W	
C42	272+06.45	418.27'	909.42'	S63*34'11"W	
C43	276+24.73	173.78'	232.22'	N81°48'57*W	
C44	277+98.5 1	154.33'	1039.24'	N56°07'23*W	
C45	279+52.84	124.12'	402.68'	N60°41'56"W	
C46	280+76.96	49.36'	131.28'	N80°18'03"W	
L 25	281+26.32	159.81'		S88°24'14"W	
C47	282+86.13	126.92'	220.93'	S71°56'47*W	
L26	284+13.05	122.94'		S48°45'48"W	
C48	285+36.00	80.40'	69.01'	S72°22'14"W	
L27	286+16.40	82.32'		N57'52'02"W	
C49	286+98.72	46.39'	28.32'	N8°36'48"W	
L 28	287+45.1 1	106.51'		N39°23'56"E	
C50	288+51.62	80.78'	47.08'	N0"30'43"W	
L29	289+32.40	290.09'		N51°47'18"₩	
L30	292+22.49	437.43'		N46°07'00"W	



DELTA
1 9 *56'27"
40.11'04"
26*21'09*
42'52'36"
8'30'31"
17'39'38"
21'32'36"
32'54'54"
66'45'10"
93'51'27"
98°18'17"

EXISTING DIKE ALIGNMENT									
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA				
C51	296+59.92	87.52'	208.11'	N58'11'33"W	24.05,44				
L31	297+47.44	52.08'		N72'52'59"W					
C52	297+99.53	62.63'	61.08'	S77*44'42 * W	58'44'38"				
L32	298+62.15	55.64'		S38'59'18"W					
C53	299+17.79	83.44'	157.94'	S54'07'24"W	30°16'13"				
C54	300+01.23	52.73'	29.93'	N60"16'26"W	100'56'07"				
L33	300+53.97	49.77'		N10'18'39"W					
L.34	301+03.74	53.48'		N2°43'44"E					
C55	301+57.22	46.69'	35.57'	N34*52'39 * W	75 12'47"				
L35	302+03.91	50.50'		N89'03'51"W					
L36	302+54.41	50.92'		N90'00'00 " W					
L37	303+05.33	46.94'		N77°28'43"W					
L38	303+52.27	110.17'		S88'00'55"W					
L.39	304+62.45	101.25'		S88'11'58"W					
L40	305+63.69	45.90'		N86'49'15"W					
L41	306+09.59	39.31'		N68'01'26"W					



CP02

SHEET 5 OF

49 SHEETS

ESTUARY RESTORATION PROJECT SURVEY CONTROL PLAN

PROJECT NO. RR49206



REFERENCE NOTES:

- 1. SEE SHEET SP02 FOR EXCAVATION SITE PLAN.
- 2. SEE SHEETS EC01-EC05 FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND CLEARING LIMITS.
- 3. SEE SHEETS PD01-PD02 FOR PIPELINE PROTECTION.
- 4. SEE SHEET XSO1 AND XSO2 FOR TYPICAL DIKE SECTIONS.
- 5. SEE SHEETS PP01-PP06 FOR DIKE PLAN AND PROFILE.
- 6. SEE SHEETS GD01-GD02 FOR SETBACK DIKE GRADING DETAILS.
- 7. SEE SHEETS SF01-SF11 FOR DRAINAGE POND, PUMP STATION AND DRAINAGE PIPES.
- 8. SEE SHEETS RP01-RP03 FOR RESTORATION PLAN.
- 9. SEE SHEETS GP01-GP02 FOR PARKING AREA.
- 10. SEE SHEET TCO1 FOR TRAFFIC CONTROL.

LEGEND



49

SHEETS





EXCAVATION AREAS	QUANTITIES (CY)
POND EXCAVATION INCL. HAUL	85,200
ROADWAY EXCAVATION INCL. HAUL	
STRIPPING BELOW SETBACK DIKE	23,800
SETBACK DIKE TOE DITCH	14,800
SETBACK DIKE RIPRAP TRENCH AND BURIED TOE	8,900
POWER CONDUIT TRENCH	3,600
EXCAVATION FOR BURIED WINDROWS FOR PIPELINE EROSION PROTECTION	25,000
EXISTING DITCH EXCAVATION FOR ARMORING	700
EXCAVATION FOR 51ST AVE REMOVAL	500
TOTAL (ROUNDED)	162,500
REQUIRED NON-STRUCTURAL EMBANKMENTS	
DITCH FILLS	
DF 1	2,131
DF 2	2,354
DF 3	1,648
DF 4	1,845
DF 5	1,784
DF 6	158
DF 7	4,126
DF 8	3,134
DF 9	1,845
DF 10*	151
DF 11*	
DF 12*	149
DF 13*	
DF 14*	201
DF 15	990
DF 16*	
DF 17	98
DF 18	159
DF 19*	117
DF 20*	162
DF 21*	115
DF 22*	516
DF 23*	204
TOE BERM	29,800
BACKFILL WINDROW EXCAVATION	17,500
PIPELINE EROSION PROTECTION	37,700
TOPSOIL TYPE D	7,000
DRAINAGE SWALE EDOM EVICTING DITCH	82
DRAINAGE SWALE FROM EXISTING DITCH	444 000
TOTAL (ROUNDED)	114,000
TOTAL (ROUNDED) SURPLUS EXCAVATED MATERIAL DISPOSAL AREAS	114,000
TOTAL (ROUNDED) SURPLUS EXCAVATED MATERIAL DISPOSAL AREAS SURPLUS DISPOSAL AREA 1 - NORTH BENCH	10,500
TOTAL (ROUNDED) SURPLUS EXCAVATED MATERIAL DISPOSAL AREAS SURPLUS DISPOSAL AREA 1 - NORTH BENCH SURPLUS DISPOSAL AREA 2 - BENCH NEAR PIPELINE	10,500 38,000







DEMOLITION TABLE						
NOTE	NORTHING/EASTING					
REMOVE CONCRETE FOUNDATION	N: 370867.29 E: 1314032.82					
REMOVE SHED AND FOUNDATION MATERIALS	N: 370963.05 E: 1313388.36					
A REMOVE FENCING	N: 371241.70 E: 1313849.80					
B REMOVE FENCING	N: 370396.88 E: 1312976.81					
C REMOVE FENCING	N: 370964.38 E: 1314809.51					
D REMOVE FENCING	N: 371699.31 E: 1313666.79					
REMOVE POWER POLE AND JUNCTION BOX	N: 371902.86 E: 1315333.26					
5 REMOVE POWER POLE AND LUMINAIRE	N: 372887.27 E: 1315400.64					
REMOVE EXISTING ACCESS GATES	N: 370392.96 E: 1315217.67					
7 REMOVE PILE OF CONCRETE RUBBLE	N: 372368.98 E: 1315549.08					
REMOVE AND CAP EXISTING 2", WATERLINE	N:370403.33 E:1312881.26 (APPROX.)					
NOT USED	N/A					
O REMOVE EXISTING PIPES	N: 374309.34 E: 1313186.56					
1 REMOVE EXISTING GRAVEL ACCESS ROAD	N: 374783.04 E: 1313233.76					
2 REMOVE EXISTING CULVERT	N: 375393.28 E: 1313238.36					
3 REMOVE CAR BODY	N: 375144.13 E: 1313367.99 (APPROX.)					
REMOVE PIPES AND MAN-MADE DEBRIS ENCOUNTERED BY EXCAVATING OBSERVATION TRENCHES ON BOTH SIDES OF SETBACK DIKE ALIGNMENT PER SHEET XS01 AND GD02	N/A					















DATE NO. REVISION BY



pr May 06, 2015 — 1:17pm PROJ. NO. SURVEY NO.	otak		REVIEWED AND APPROVED BY:	SNOHOMI DEPAR
DRAWN BY: AK		1 - 25758 - C - AT	OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER	PUBLIC
UPI# 12-0171-1	HanmiGlobal Partner	Stional English 5-7-15	DATE APPROVED:	PROJE

TES	C NOTES
1	INSTALL HIGH VISIBILITY SILT FENCE PER WSDOT STD PLAN 1-30.17-00.
2	NOT USED.
3	INSTALL STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-01.
4	INSTALL HIGH VISIBILITY FENCE PER WSDOT STD PLAN I-10.10-01.
5	INSTALL WHEEL WASH.
6	NOT USED.
7	RECOMMENDED CONSTRUCTION STAGING AREA.
8	NOT USED.
9	CLEARING AND GRUBBING LIMITS.
10	INSTALL TEMPORARY GRAVEL BAG BERM PER DETAIL ON SHEET EC05.
11	NOT USED.
12	CLEARING LIMITS.





XREF_LIST___ Ltscole: 1 Resolved TTL**B**LK GSLSEAL _____



NOTES

- 1. GRAVEL BAGS SHALL BE FILLED WITH STREAMBED SEDIMENT PER WSDOT SPEC. 9-03.11(1).
- 2. INITIAL ROW OF GRAVEL BAGS SHALL BE KEYED INTO THE GROUND SUCH THAT THEY MAKE TIGHT CONTACT WITH THE GROUND FOR THE LENGTH OF THE BERM.

ELEVATION VIEW

TEMPORARY GRAVEL BAG BERM

REGION STATE 10 WASH. DESIGNED BY: GSL, DAS FIELD BOOK(S): DATE NO. REVISION BY









XREF_LIST Ltscale: 1 -----Resolved TTL**B**LK



XREF LIST Ltscale: 1 Resolved TTLBLK GSLSEAL



na Raz territa antista distanti di	CONSTRUCTION NOTES:	1
RIPPING DEPTH WITH:	1 EXCAVATE STRIPPING DEPTH BELOW SETBACK DIKE A LANDSIDE ACCESS ROAD (10 INCH DEPTH) (SEE NO	NO TE 1).
BENEATH LANDSIDE E HORIZONTAL DRAINAGE	2A CONSTRUCT TEMPORARY OBSERVATION TRENCH PER ON SHEET GD02.	DETAIL
AL BENEATH THE SETBAC PT AS NOTED ABOVE.	K	
TION SHALL BE:	$\langle 3 \rangle$ see sheet xso2 for grading table and side sl	opes.
BETWEEN STATIONS 10+00	$\overline{4}$ dike core, setback dike material.	
I STATIONS 49+50 AND	5 INSTALL CONSTRUCTION GEOSYNTHETIC FOR REINFOR	CEMENT.
TOM WIDTH OF DITCH. GRADE SHALL BE AT ELE SHALL BE AS FOLLOWS:	6 INSTALL HORIZONTAL DRAINAGE LAYER SAND FILTER (THICKNESS = 2 FT. PLUS 10 INCH STRIPPING DEP	MATERIAL TH).
WEEN STATIONS 10+65	(7) DIKE CORE SETBACK DIKE MATERIAL EXPECTED TO CONSOLIDATE NATIVE SOILS BY A DEPTH OF UP TO DIKE CENTERLINE.	3 FT AT
WEEN STATIONS 50+00	$\langle 8 \rangle$ INSTALL QUARRY SPALLS (8" THICK). 1	
57+00, THE LANDSIDE CTION GEOTEXTILE FOR CONSTRUCTION	9 CONSTRUCT RIPRAP EROSION PROTECTION PER DETA	IL, THIS
FORCEMENT SHALL BE IN DWAY IS USED FOR SITE ON PURPOSES TO	(10) TOPSOIL TYPE D (EXCAVATED MATERIAL) BELOW ELEV 9 FT ON WATERSIDE (1 FT MIN. COMPACTED AND FINISHED DEPTH).	
	$\langle 11 \rangle$ construct toe ditch per detail, this sheet.	
IONS FOR MATERIALS.	$\langle 12 \rangle$ DIKE FILL FINAL GRADE.	
I LANDSIDE ACCESS ROAD TH EXCAVATION, AND OF LANDSIDE ACCESS I BACKFILL.	(13) CONSTRUCT TOP OF DIKE ROAD SURFACING WITH GR FILTER (0.5 FT MIN COMPACTED AND FINISHED DEPT	RAVEL 'H).
IAL 3 FT DEPTH, 24 FT IAL OVER GRAVITY PIPE	$\langle 14 \rangle$ CONSTRUCT GRAVEL FILTER LAYER (1.0 FT MIN. CON AND FINISHED DEPTH). (SEE NOTE 6).	PACTED
	(15) INSTALL CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL.	
	(16) EXISTING GRADE.	
	(17) CONSTRUCT LANDSIDE ACCESS ROAD WITH GRAVEL F (1.0 FT MIN. COMPACTED AND FINISHED DEPTH). (SEE NOTE 6).	ILTER
	$\langle 18 \rangle$ construct power conduit trench per sheet gi	002.
	(19) TOPSOIL TYPE C (1 FT MIN COMPACTED AND FINISH	ED
\wedge	20) NOT LISED	$\overline{}$
<u></u>	$\sqrt{21}$ seeding and mulching, seed with lowland seed	MIX.
	22 CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION.	
	RIPRAP NOTES:	
RIPRAP, 2' THICK	4 1 TOP FRONT EDGE	
QUARRY SPALLS, 8" THICK 17'	EXISTING GROUND 2 BURIED TOE BOTTOM BACK ED	OGE
	3 BURIED TOE BOTTOM FRONT E	DGE
1.5	1.5 EL. 0.0' 4 RIPRAP TRENCH SLOPE BREAK	(
5'-11'-++	5 RIPRAP TRENCH FRONT EDGE	
<u>CH – STA 49+50 T</u>	<u>0 STA 65+50</u>	
•		
	\	
\sim	CALL BEFORE	YOU DIG
	1-800-424-	-5555
SH COUNTY	SMITH ISLAND	REFERENCE SHEET NO.
TMFNT OF	ESTUARY RESTORATION	XS01
CWORKS	TYDICAL CETDACK DIKE	SHEET
	SECTIONS	OF 49
LCI NO. KK49200	JEVIIVIIJ	SHEETS



	CONSTRUCTION NOTES:
PPING DEPTH WITH:	(1) EXCAVATE STRIPPING DEPTH BELOW SETBACK DIKE AND LANDSIDE ACCESS ROAD (10 INCH DEPTH) (SEE NOTE 1).
e horizontal drainage	(2A) CONSTRUCT TEMPORARY OBSERVATION TRENCH PER DETAIL
L BENEATH THE SETBAC PT AS NOTED ABOVE.	K (2B) SUBSURFACE REPAIR AT LOCATIONS IDENTIFIED BY ENGINEER.
TON SHALL BE:	$\langle \overline{3} \rangle$ see sheet xS02 for grading table and side slopes.
etween stations 10+0	$\sqrt[6]{4}$ dike core, setback dike material.
STATIONS 49+50 AND	$\overline{(5)}$ install construction geosynthetic for reinforcement.
om width of ditch. Grade shall be at eli	$\overline{6}$ install horizontal dramage layer sand filter material (Thickness = 2 ft. plus 10 inch stripping depth).
NEEN STATIONS 10+65	(7) DIKE CORE SETBACK DIKE MATERIAL EXPECTED TO CONSOLIDATE NATIVE SOLLS BY A DEPTH OF UP TO 3 FT AT DIKE CONTERING
WEEN STATIONS 50+00	(R) INSTALL QUARRY SPALLS (8" THICK).
57+00, THE LANDSIDE TION GEOTEXTILE FOR	9 CONSTRUCT RIPRAP EROSION PROTECTION PER DETAIL, THIS
CONSTRUCTION ORCEMENT SHALL BE IN	(10) TOPSOIL TYPE D (EXCAVATED MATERIAL) BELOW
WAY IS USED FOR SITE IN PURPOSES TO	ELEV 9 FT ON WATERSIDE (1 FT MIN. COMPACTED AND FINISHED DEPTH).
N	(11) CONSTRUCT TOE DITCH PER DETAIL, THIS SHEET.
UNS FUR MATERIALS.	(12) DIKE FILL FINAL GRADE.
LANDSIDE ACCESS ROA H EXCAVATION, AND OF LANDSIDE ACCESS BACKELL	(13) construct top of dike road surfacing with gravel. Filter (0.5 FT min compacted and finished depth).
AL 3 FT DEPTH, 24 FT AL OVER GRAVITY PIPE	(14) CONSTRUCT GRAVEL FILTER LAYER (1.0 FT MIN, COMPACTED AND FINISHED DEPTH). (SEE NOTE 6).
	(15) INSTALL CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL
	(16) EXISTING GRADE.
	(17) CONSTRUCT LANDSIDE ACCESS ROAD WITH GRAVEL FILTER (1.0 FT MIN. COMPACTED AND FINISHED DEPTH). (SEE NOTE 6).
	(18) CONSTRUCT POWER CONDULT TRENCH PER SHEET GD02.
]	(19) TOPSOIL TYPE C (1 FT MIN COMPACTED AND FINISHED
pric extended	
per FOR	
tak/Shannon	(21) SEEDING AND MULCHING, SEED WITH LOWLAND SEED MDX.
9/18)	(22) CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION.
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	RIPRAP NOTES:
IPRAP, 2' THICK	4 -5 1 TOP FRONT EDGE
8" THICK	EXISTING
17	
100000	BURIED TOE BOTTOM FRONT EDGE
1.5	-EL 0.0'
5-11	
	5 RIPRAP TRENCH FRONT EDGE
CH - STA 49+50	TO STA 65+50
	<u> </u>
	<
	CALL BEFORE YOU DIG
SH COUNTY	SMITH ISLAND SHET NO.
TMENT OF	LSIUARY RESIDRATION XS01
CWORKS	
	SECTIONS
ECT NO. RR49206	SECTIONS SHEETS



SETBACK DIKE SECTION GRADING POINTS

SETBACK DIKE SECTION GRADING TABLE

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STATION	POINT 1	POINT (2)	POINT 3	POINT	4	POINT 5	POINT	6	POINT (7)
	OFFSET	OFFSET	OFFSET	OFFSET	ELEV	ELEV	OFFSET	ELEV	OFFSET
12+00	94.14'L	90.54'L	62.34'L	7.50'L	15 35	15.50	7.50'R	15.35	99.83'R
14+00	83.04'L	44.11'L	15.91'L	7.50'L	15 35	15.50	7.50'R	15.35	45.34'R
16+00	83.07'L	38.86'L	10.66'L	7.50'L	15 35	15.50	7.50'R	15.35	38.91'R
18+00	83.07'L	42.80'L	14.60'L	7.50 ' L	15 35	15.50	7.50'R	15.35	45.81'R
20+00	83.03'L	45.42'L	17.22'L	7.50'L	15 35	15.50	7.50'R	15.35	44.93'R
22+00	83.08'L	43.07'L	14.87'L	7.50 ' L	15 35	15.50	7.50'R	15.35	44.79'R
24+00	84.48'L	43.54'L	15.34 ' L	12.00'L	15 35	15.50	7.50'R	15.35	35.81'R
26+00	80.01'L	40.95'L	12.75'L	7.50'L	15 <mark>35</mark>	15.50	7.50'R	15.35	42.39'R
28+00	81.06'L	41.08'L	12.88'L	7.50 ' L	15 35	15.50	7.50'R	15.35	39.73'R
30+00	82.11'L	42.57'L	14.37'L	7.50 ' L	15 35	15.50	7.50'R	15.35	41.22'R
32+00	88.15'L	42.03'L	13.83'L	7.50'L	15 35	15.50	7.50'R	15.35	45.10'R
34+00	N/A	63.47'L	35.27 ' L	25.04'L	15 35	15.50	7.50'R	15.35	42.14'R
36+00	N/A	45.41'L	17.21 ' L	7.50'L	15 <mark>35</mark>	15.50	7.50'R	15.35	43.44'R
38+00	N/A	46.12'L	17.92 ' L	7.50 ' L	15 <mark>3</mark> 5	15.50	7.50'R	15.35	45.45'R
40+00	N/A	43.25'L	15.05 ' L	7.50 ' L	15 <mark>3</mark> 5	15.50	7.50'R	15.35	42.90'R
42+00	N/A	44.37'L	16.17 ' L	7.50'L	15 <mark>3</mark> 5	15.50	7.50'R	15 <mark>.</mark> 35	44.11R
44+00	N/A	46.37'L	18.17 ' L	7.50 ' L	15 <mark>35</mark>	15.50	7.50'R	15.35	43.87'R
46+00	N/A	42.19'L	13.99'L	7.50 ' L	15 <mark>35</mark>	15.50	7.50'R	15 <mark>.</mark> 35	42.93'R
48+00	N/A	43.19'L	14.99'L	7.50 ' L	15 <mark>35</mark>	15.50	7.50'R	15 <mark>.</mark> 35	43.91'R
50+00	N/A	41.99'L	13.79 ' L	7.50'L	15 <mark>3</mark> 5	15.50	7.50'R	15 <mark>.</mark> 35	44.87'R
52+00	134.98'L	58.58'L	30.38'L	27.50'L	15 <mark>3</mark> 5	15. <mark>5</mark> 0	7.50'R	15 <mark>.</mark> 35	41.08'R
54+00	83.64'L	43.24'L	15.04'L	7.50 ' L	15 <mark>35</mark>	15. <mark>5</mark> 0	7.50'R	15.35	42.73R
56+00	83.75'L	43.32'L	15.12 ' L	7.50 ' L	15 <mark>35</mark>	15.50	7.50'R	15.35	43.28'R
58+00	194.82'L	50.64'L	N/A	15.04 ' L	15 35	15.50	7.50'R	15.35	41.77'R
60+00	196.33'L	43.52 ' L	N/A	7.50'L	15 <mark>3</mark> 5	15.50	7.50'R	15.35	40.18'R
62+00	196.44'L	43.93'L	N/A	7.50 ' L	15 35	15.50	7.50'R	15.35	43.93'R
64+00	196.60'L	43.89'L	N/A	7.50 ' L	15 <mark>3</mark> 5	15.50	7.50'R	15,35	43.42'R
66+00	198.43'L	41.66'L	N/A	7.50'L	15 35	15.50	7.50'R	15 <mark>.</mark> 35	43.17'R

15.85

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REGION STATE 10 WASH. DESIGNED BY: GSL, DAS 6/5/15 1 ADDENDUM NO. 2 DAS FIELD BOOK(S): DATE NO. REVISION ΒY

16.00

15.85





GENERAL NOTES

		·	SETBACK DIKE CORE SETTLEMENT TO 3H: ARE PROVIDED TO C CONTROL HORIZONTA	SHALL HAVE SID V SIDE SLOPES. CONTROL DIKE TOE DRAINAGE LAYE	E SLOPES OF 2.9H SETBACK DIKE SEC S TO MEET SLOPE R AND TOE DITCH	:1V TO ALLOW FOI TION GRADING POI REQUIREMENTS, A LOCATIONS.	R NTS ND	
			SETBACK DIKE	SECTION G	RADING NOTE	S		
EXISTING			DIKE SECTION GRADI	NG POINTS ARE A	S FOLLOWS:			
GRADE			1 FINISHED GRAD	DE AT BOTTOM ED	GE OF TOE DITCH.			
			2) REFERENCE PC DETERMINING D	DINT AT BOTTOM C DIKE CORE SIDE S	of Stripping Depth SLOPE to Point 4	1 FOR		
			3 INTERIOR EDGE	OF HORIZONTAL	DRAINAGE LAYER.			
	je Je		4 LANDSIDE TOP	EDGE OF DIKE C	ORE MATERIAL (END) OF CONSTRUCTIO)N).	
			5 TOP OF SETBA	CK DIKE CORE M	ATERIAL AT CENTER	LINE. (END OF		
			6 WATER SIDE TO) Op edge of dike	CORE MATERIAL (E	end of construc	TION).	
			7 REFERENCE PC DETERMINING D	DINT AT BOTTOM C DIKE CORE SIDE S	of stripping depth Lope to point 6	+ FOR	•	
>								\sim
>		SEE TYPICAL SI	ECTION ON SHEET XS	601				
`	4	- SETBACK DIKE	MATERIAL AP, 2 FT THICK	- EXISTING DI	KE			
	Ê 20	QL	JARRY SPALLS, THICK		ġ.			
>	8 10 - 1	A COSCOL						\langle
>	<u>ع</u> 0 ک							\langle
>								\langle
>	ST SED 5.2	0.30	3.0	6	H			
\$					20	SCALE IN FE	ET 4	
,	0+00		0+50	1+00				
	STRIPPING DEPT PER SHEET XSC	Ή_/)1			20	0 – 2 SCALE IN FE	°O 4 ET	<i>v</i>)
NC	DTE: SEE SHEET	XS01 FOR RIPRAP E	ROSION PROTECTION	FOR STA 10+00	TO STA 65+50			
R	IPRAP ERO	SION PROTECTI	ON AT EXISTIN	ig dike — s	STA 65+50 T	<u>0 STA 68+(</u>	<u>)0</u>	\sum
								\leq
\sim		\sim	\sim	\sim	\sim	\sim	\sim	\sim
	ţ.	A					REENDE V	
					\$		300-424-	5555
ED AND AF	PROVED BY:	SNUHUNIC			SMITH ISL	AND		REFERENCE
9 M	, <u>A</u>			ESTU	ARY RES	TORATIO	N	XS02
WEN B. CART	ER, P.E.		WORKS	CETD				SHEET
omish count					RADING	TARI F	71 1	0F 49
DATE APPR	OVED:	PROJEC	T NO. KR49206	<u> </u>				SHEETS













12TH ST. RAMP ALIGNMENT					
NUMBER	LENGTH	RADIUS	BEARING	DELTA	
C100	144.88'	85.00'	N54"27'22"E	97'39'30"	
C101	18.78'	45.00'	S64"45'21"E	23 55 03	
L102	39.76'		S52"47'49"E		

	FENCE SCHEDULE				
	STATION	OFFSET	TYPE		
1	12+27.31	58.4'R	BEGIN 7 FT TYPE 3 CHAIN LINK FENCE		
2	12+26.98	17.0'R	BEGIN DOUBLE 14 FT. CHAIN LINK GATE PER WSDOT STD PLAN L-30.10-02		
3	12+26.99	17.0'L	BEGIN 7 FT TYPE 3 CHAIN LINK FENCE		
4	12+26.96	40.0'L	BEGIN DOUBLE 20 FT. CHAIN LINK GATE PER WSDOT STD PLAN L-30.10-02		
5	12+25.56	80.0'L	7 FT TYPE 3 CHAIN LINK FENCE		
6 ·	12+26.59	97.3 ' L	7 FT TYPE 3 CHAIN LINK FENCE		
7	24+60.41	96.5'L	END 7 FT TYPE 3 CHAIN LINK FENCE		





GENERAL NOTES 1. ELEVATIONS AND PROPOSED CONTOURS WITHIN FILL LIMITS INDICATE SETBACK DIKE MATERIAL GRADE.				
CONSTRUCTION NOTES				
1 CONSTRUCT SETBACK DIKE PER SECTION DETAILS ON SHEET XS01.				
2 CONSTRUCT PERMANENT ACCESS ROAD PER SECTION DETAILS ON SHEET XS01.				
3 CONSTRUCT TOE DITCH PER SECTION DETAILS ON SHEET XS01.				
4 INSTALL RIPRAP EROSION PROTECTION PER DETAILS ON SHEET XS01.				
5 INSTALL POWER CONDUIT FOR PUMP STATION ELECTRICAL SERVICE PER SHEETS E1-E4				
6 CONSTRUCT DITCH FILL UNDER DIKE PER DETAIL ON SHEET GD02.				
7 INSTALL FENCE PER SCHEDULE, SHEET PP03.				
8 CONSTRUCT SETBACK DIKE TIE-IN PER DETAIL ON GD02.				
9 BEGIN DIKE TOP VEHICLE TURNOUT PER DETAIL ON SHEET GD02.				
LEGEND				
CONTOUR (MINOR-EXISTING)				
RIPRAP SLOPE BREAK				
RIPRAP				
GRAVEL FILTER				
XRIPRAP SLOPE BREAK LINE PER NOTES ON SHEET XS01				
P				
DITCH FILL PER SHEETS RP01-RP02				

2	



<u>GENERAL NOTES</u> 1. ELEVATIONS AND PROPOSED CONTOURS WITHIN FILL LIMITS INDICATE SETBACK DIKE MATERIAL GRADE.
CONSTRUCTION NOTES
1 CONSTRUCT SETBACK DIKE PER SECTION DETAILS ON SHEET XS01.
2 CONSTRUCT PERMANENT ACCESS ROAD PER SECTION DETAILS ON SHEET XS01.
3 CONSTRUCT TOE DITCH PER SECTION DETAILS ON SHEET XS01.
4 INSTALL RIPRAP EROSION PROTECTION PER DETAILS ON SHEET XS01.
5 INSTALL POWER CONDUIT FOR PUMP STATION ELECTRICAL SERVICE PER SHEETS E1-E4
6 CONSTRUCT DITCH FILL UNDER DIKE PER DETAIL ON SHEET GD02.
7 INSTALL FENCE PER SCHEDULE, SHEET PP03.
8 CONSTRUCT SETBACK DIKE TIE-IN PER DETAIL ON GD02.
9 BEGIN DIKE TOP VEHICLE TURNOUT PER DETAIL ON SHEET GD02.
LEGEND
CONTOUR (MINOR-EXISTING)
* * * * CONTOUR (MAJOR-PROPOSED)
RIPRAP SLOPE BREAK
RIPRAP
GRAVEL FILTER
XRIPRAP SLOPE BREAK LINE PER NOTES ON SHEET XS01
PPBURIED POWER CONDUIT



<u>GENERAL NOTES</u> 1. ELEVATIONS AND PROPOSED CONTOURS WITHIN FILL LIMITS INDICATE SETBACK DIKE MATERIAL GRADE.				
CONSTRUCTION NO	DTES			
1 CONSTRUCT SETBACK DIKE	PER SECTION DETAILS ON SHEET XS01.			
2 CONSTRUCT PERMANENT AC	CCESS ROAD PER SECTION DETAILS ON SHEET XS01.			
3 CONSTRUCT TOE DITCH PE	R SECTION DETAILS ON SHEET XS01.			
4 INSTALL RIPRAP EROSION F	PROTECTION PER DETAILS ON SHEET XS01.			
5 INSTALL POWER CONDUIT F	OR PUMP STATION ELECTRICAL SERVICE PER SHEETS E1-E4			
6 CONSTRUCT DITCH FILL UN	DER DIKE PER DETAIL ON SHEET GD02.			
7 INSTALL FENCE PER SCHEE	DULE, SHEET PP03.			
8 CONSTRUCT SETBACK DIKE	TIE-IN PER DETAIL ON GD02.			
9 BEGIN DIKE TOP VEHICLE	TURNOUT PER DETAIL ON SHEET GD02.			
<u>LEGEND</u>				
* * *	CONTOUR (MINOR-EXISTING)			
* * *	- CONTOUR (MAJOR-PROPOSED)			
	- RIPRAP SLOPE BREAK			
	RIPRAP			
	GRAVEL FILTER			
X	RIPRAP SLOPE BREAK LINE PER NOTES ON SHEET XS01			
——————————————————————————————————————	BURIED POWER CONDUIT			
	DITCH FILL PER SHEETS RP01-RP02			





ROVED:	PR



3784-TOPO 3784-BASE 3784-PCHN TTLBLK GSLSEAL 3784-PROF 3784-PROF 3784-PDRN 3784-PDRN 3784-PDKE 3784-PDKE



UPI#	Hanmi Global Partner	BUDIONAL INCIDES-7-15	DATE APPROVED:	PROJE
AWN BY:		13 A 25758 C 57	OWEN B. CARTER, P.E.	PUBLIC
			And be	DEPART





XREF_LIST Ltscale: 1 -----Resolved TTL**B**LK GSLSEAL 3784-GRDG 3784-TOPO 3784-BASE 3784-PCHN 3784-PROF 3784-PDRN -----



100

REFERENCE SHEET NO.

SF02

SHEET

27

OF

49 SHEETS

XREF LIST Ltscale: 1 ------Resolved ttl**b**lk GSLSEAL 3784-GRDG 3784-TOPO 3784-BASE 3784-PCHN 3784--PROF 3784-PDRN

				DECODIDITAN
	NURTHING	LASTING	ELEVATION	DESCRIPTION
P33	373787.80	1312977.02	-2.04	PI
ГJ4 	373795.04	13129/3.01	-2.04	PC
-JJ 	373045.17	1312990.04	-2.04	PI pr
FJ0	373857.00	1313010.79	1.20	
	373057.09	1212042.04	0.00	
P30	373004.46	1713043.20	1.86	
P40	373993.05	1313033.39	1.00	
DA1	373860 54	1313060.03	-2.04	FI
P42	373855 73	1313076 52	-2.04	<u>ГІ</u> 01
P43	373870.97	1313086.09	-2.04	BI
P44	373850.31	1313106.86	-2.04	PT
P45	373881.78	1312980.50	4.50	¥ a
P46	373907.06	1313044.07	4.50	
Se she	e revised eet) show Idina loo	d sheet S ving revis	SF03 (ne sed con	ext trol
bui				



GE	NERAL NOTES:		
	SEE SHEET SF05 AND SF06 FOR PIF INFORMATION. PIPE PROFILES ARE SH	PE PROFILES AND STORM STRU IOWN ALONG CENTERLINE OF	JCTURE PIPE.
2.	MANHOLES SHALL BE CONSTRUCTED B-15.20-00. COORDINATES SHOWN A DETAILS ON SHEET SF09 FOR MANHO ANGLE LAYOUT.	PER PER WSDOT STD DETAIL ARE TO CENTER OF STRUCTUR DLE EXTENDED BASE AND STRU	e. see Jcture
3.	PIPE LENGTHS SHOWN ARE FROM STA STRUCTURE, OR END OF PIPE WHEN	ART OF PIPE TO CENTER OF NO STRUCTURE IS LOCATED.	
	ISTRUCTION NOTES		
	DNSTRUCT PIPE INLET PROTECTION PE	ER SHEET SF08.	
2 CC PE	DNSTRUCT PIPE OUTFALL PROTECTION R SHEET SF08.	WITH FLAP GATE	
(INSTRUCT ACCESS ROAD CROSSING F	PER SHEET SF08.	
5 CC 7 5 CC	INSTRUCT TEMPORARY SHORING FOR	PUMP STATION.	
	JMP STATION FOUNDATION PER DETAIL	L ON SHEET SF08.	
	NSTRUCT STORMWATER PUMP STATIO AB ELEVATION AT 17 FT NAVD88.	N CONTROL BUILDING. TOP OF	-
8 /F	DNSTRUCT PIPE FILTER DIAPHRAGM PI	ER SHEET SF08.	
EX	NSTRUCT WSDOT STD. PLAN B-15.20 (TENDED BASE PER DETAIL ON SHEET	0-00 MANHOLE WITH SF09.	
10 CC 0V EX)NSTRUCT WSDOT STD PLAN B-10.20 /ERFLOW PER SNOHOMISH COUNTY ST (TENDED BASE PER DETAIL ON SHEET)-00 CB TYPE 2 WITH TD PLAN 5-245 AND T SF09	
LEC	GEND		
	DRAINAGE GATE, SEE		
SDXX	PIPE PROFILE PER SHEET SF05-SF	06	
	* * * CONTOUR (MINOR	Existing) (PROPOSED)	
	RIPRAP		
	GRAVEL FILTER M	ATERIAL	
	DITCH FILL PER :	SHEET RP01-RP02	
	STORM STRUC	TURE TABLE	
	STRUCTURE NAME:	NORTHING/ EASTING	
	CB100, TYPE 2-48"	N:373881.24	
	OVERFLOW STRUCTURE MH200,	N:374156 64	
	TYPE 1-60" SOLID COVER	E:1312946.93	
	TYPE 1-60" SOLID COVER	N:373934.55 E:1313115.42	
	PUMP STATION	N:373916.49 E:1313079.21	
1 FEFE			
	0 20 40		
	SCALE IN FEET	1-800-424-	-5555
OMISH COUNTY	SMITH IS	LAND	REFERENCE SHEET NO.
PARTMENT OF	ESTUARY RES	TORATION	SF03
JBLIC WORKS	POND OUTLET	ENLARGED	SHEET 28
PROJECT NO. RR49206	PLAN	N	49 SHEETS
XREF_LIST Ltscale: 1 Resolved TTLBLK GSLSEAL 3784-GRDG 3784-GRDG 3784-TOPO 3784-PASE 3784-PCHN 3784-PROF 3784-PDRN

	POND GRADING TABLE								
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION					
P33	373787.80	1312977.02	-2.64	PT					
P34	373795.04	1312975.01	-2.64	PC					
P35	373849.17	1312998.64	-2.64	PI					
P36	373873.23	1313016.79	1.28	PT					
P37	373857.09	1313025.84	0.00	PI					
P38	373866.88	1313043.28	0.00	PI					
P39	373884.16	1313033.59	1.86	PC					
P40	373883.05	1313060.63	-2.64	PI					
P41	373869.54	1313052.14	-2.64	PI					
P42	373855.73	1313076.52	-2.64	PI					
P43	373870.97	1313086.09	-2.64	PI					
P44	373850.31	1313106.86	-2.00	PT					
P45	373881.78	1312980.50	4.50						
P46	373907.06	1313044.07	4.50						

Excavation through setback dike for installation of pipes SD-10 and SD-20 was performed as detailed on sheets SF03a and SF03b.



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4pm							La	st Saved	By: chrisc J
- 3:1								STATE	FED. AID
17 -							10	WAGU	
, 20							10	WASH.	
60							DESIGN	IED BY:	
Jun							GSL,	DAS	
:ed:	6/8/17	1	S.I. 03 - CONTROL BUILDING LOCATION	CRC	DAS		FIELD I	BOOK(S):
Plott	DATE	NO.	REVISION		В	IY I			



	GEN							
	1. S	EE SHEET S	F05 AND SFC PIPE PROFIL	06 FOR PIPE ES ARE SHO	PROFILES	AND STO CENTERL	RM STRU(INE OF P	CTURE IPE.
\ \ \ \	2. M B D A	IANHOLES SH -15.20-00. ETAILS ON S NGLE LAYOU	HALL BE CONS COORDINATES SHEET SF09 F T.	Structed Pe S Shown Ar For Manholi	er per WS Re to cen E extende	SDOT STD TER OF S D BASE A	DETAIL TRUCTURE ND STRU	. SEE CTURE
	3. P S	IPE LENGTHS TRUCTURE, (5 SHOWN ARE OR END OF F	E FROM STAR PIPE WHEN N	rt of Pipe 10 struct	E TO CENT URE IS LO	ER OF CATED.	
	<u>CON</u>	<u>STRUCT</u>	<u>ION NO</u>	<u>TES</u>				
		NSTRUCT PIF	PE INLET PRO	TECTION PER	R SHEET SI	F08.		
	2 COI PEF	NSTRUCT PIF R SHEET SFO	PE OUTFALL P 08.	ROTECTION V	WITH FLAP	GATE		
—(D5)		NSTRUCT AC	CESS ROAD C	ROSSING PE	R SHEET S	SF08.		
		NSTRUCT TEI	MPORARY SHO	RING FOR P	UMP STATI	ON.	UCT	
		MP STATION	FOUNDATION	PER DETAIL	ON SHEET	SF08.		
		AB ELEVATION	N AT 17 FT N	IMP STATION IAVD88.	CONTROL	BUILDING.	TOP OF	
	8 COI	NSTRUCT PIF	pe filter dia	PHRAGM PER	R SHEET S	F08.		
	9 COI EXT	NSTRUCT WS ENDED BASE	DOT STD. PLA E PER DETAIL	AN B-15.20- ON SHEET	-00 MANH(SF09.	OLE WITH		
	10 COI OVE EXT	nstruct ws Erflow Per Ended Base	dot std pla Snohomish E per detail	N B-10.20- COUNTY STD ON SHEET	-00 CB TY) PLAN 5 SF09	PE 2 WITH 245 AND	ł	
	LEG	END						
			ATE, SEE	00				
	SDXX	PIPE PROFIL	LE PER SHEE	T SF05-SF0	6			
		* * *	CONTO	UR (MINOR- UR (MAJOR-	EXISTING) PROPOSED))		
			RIPRAF					
<u> </u>			GRAVE	L FILTER MA	TERIAL			
			DITCH	FILL PER SH	HEET RP01	-RP02		
			STORM	STRUCT	URE TA	BLE		
			STRUCTU	RE NAME:	NORTHIN	G/ G		
				00, 2–48" STRUCTURE	N:373881 E:131307	.24 0.14		
			MH2	200, 1–60"	N:374156	5.64		
			SOLID MH8	COVER 300	N:373934	.55		
			SOLID	1–60 ^{°°} COVER	E:131311	5.42		
	Ţ		PUMP	STATION	N:373916 E:131307	9.21		
			20					
	. 0	SCALE IN	FEET	τU		CALL BI	-FORE Y 0-424-	00 DIG 5555
	NTY		SMI	TH ISL	AND			REFERENCE SHEET NO.
MENT C)F	ES	TUARY	RES	TORA	TION		SF03
WORKS	S	PO	ND OU	TLET	ENLA	RGE	D	SHEET 28 OF
CT NO. <u>R</u>	49206			PLAN				49 SHEETS



Estimated Excavation Qu	antities
Dike Material Excavation:	1,580 CY
Native Material Excavation:	830 CY
Total Excavation	2,410 CY

1,500 CY
910 CY
2,410 CY
3,900 tons

XREF LIST Liscole: 1 Resolved TTLBLK GSLSEAL 3784-GRD 3784-CRD 3784-PRO 3784-PRO 3784-PRO 3784-PRO

Provide Extransmit Extransmit Extransmit Extransmit Filter 193 37277240 312077240 -2.64 Filter Filter <t< th=""><th></th><th>PONE</th><th>GRADIN</th><th>G TABLE</th><th>7 7 7 1</th><th>1 11</th><th>1 11 1</th><th></th><th></th><th>11/14</th><th>$\langle \rangle \rangle$</th><th>VVE</th><th>04060</th><th>948</th></t<>		PONE	GRADIN	G TABLE	7 7 7 1	1 11	1 11 1			11/14	$\langle \rangle \rangle$	VVE	04060	948
PN 373092.01 312072.02 -2.64 PC PN 373092.01 312070.02 -2.64 PC PN 373092.01 131000.64 -2.64 PC PN 373092.01 313000.62 -2.64 PC PN 373092.01 313000.63 -2.64 PC PN 373097.08 313000.63 -2.64 PC PN 373097.08 313004.07 -3.00 PC PN 373097.08 313004.07 -3.00 PC PN 373097.08 313004.07 -3.00 PC PC PN 973097.08 313004.07 -3.00 PC PC PC PC PN 973097.08 313004.07 -3.00 PC	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION			1	\mathbf{V}	1 = 1		$\lambda ()$	6333	
PM 373900-04 312070-01 -2-64 PC PM 373900-05 313000-04 -2-64 PC PM 373900-05 133000-04 -2-64 PC PM 373900-07 133000-06 -2-00 PC	P33	373787.80	1312977.02	-2.64	PT	1 11				11/1		181	ACRE .	AB
PR 37087323 1313010.70 1.28 PT PR 37087324 1313002.84 0.00 PT PR 37087324 1313002.84 0.00 PT PR 37087324 1313002.84 0.00 PT PR 370882.01 131002.84 -2.64 PT PR 370887.78 131006.84 -2.64 PT PR 370897.78 131006.407 4.50 PT	P34	373795.04	1312975.01	-2.64	PC	1				1 iel	1111	31	1 HBH	ALE A
PF8 373807.20 1313021.40 0.00 PT PF8 373807.20 1313021.40 0.00 PT PF8 373807.20 1313021.41 -2.64 PT PF8 373807.20 1313024.22 0.00 PT PF8 373807.20 1313024.22 0.00 PT PF8 373807.20 1313024.22 -2.64 PT PF8 373807.20 1313024.67 -2.00 PT PF8 373807.20 1313024.67 -2.00 PT PF8 373807.20 1313024.67 -2.00 PT PT PF8 373807.20 1313024.67 -2.00 PT PT PT PF8 373807.20 1313024.67 -2.00 PT PT PT PT PF8 PF1 PF2 PF1 PF2 PF2 PF2 </td <td>P35</td> <td>373849.17</td> <td>1312998.64</td> <td>-2.64</td> <td>PI</td> <td>1 11</td> <td></td> <td></td> <td></td> <td>1 1</td> <td>1////</td> <td></td> <td>1 180</td> <td>\$ \$ \$ \$</td>	P35	373849.17	1312998.64	-2.64	PI	1 11				1 1	1////		1 180	\$ \$ \$ \$
F27 373867.00 313025.40 0.00 Pi 72 72586.40 131025.20 0.00 Pic 747 72586.40 131025.20 0.00 Pic 747 72586.40 131025.20 0.00 Pic 747 73788.40 131025.20 -2.64 Pi 748 735865.41 131026.41 -2.64 Pi 748 735865.41 131026.42 -2.64 Pi 748 735865.41 131026.42 -2.64 Pi 748 735865.41 131026.40 -2.64 Pi 748 735865.41 131026.40 -2.60 Pi 0 748 735865.71 131026.40 -2.60 Pi 0 Pi 748 735865.74 131026.40 -2.60 Pi 0 Pi 9 Pi 16 Pi <t< td=""><td>P36</td><td>373873.23</td><td>1313016.79</td><td>1.28</td><td>PT</td><td></td><td></td><td></td><td></td><td></td><td>3////</td><td></td><td>IB</td><td>CA L</td></t<>	P36	373873.23	1313016.79	1.28	PT						3////		IB	CA L
P38 273867.31 13300.23 0.00 P1 P38 773867.51 13300.23 0.00 P1 P48 773867.51 13300.21 2.44 P1 P48 773867.51 13300.63 2.244 P1 P43 737807.27 13300.63 2.244 P1 P43 737807.70 133004.07 4.50 101	P37	373857.09	1313025.84	0.00	PI						1///	11	11	808
P29 373803.05 1533000.03 -2.64 PI P40 733805.76 153000.86 -2.64 PI P40 733805.75 153000.86 -2.64 PI P40 735805.75 153000.86 -2.64 PI P40 735805.76 153000.86 -2.60 PI P40 735805.76 153000.86 -2.60 PI P40 735807.70 153304.407 -5.50 -5.50 P40 735807.70 153304.407 -5.50 -5.50 P40 75807.70 153304.67 -5.50 -5.50 P40 P1 P1 P1 P1 P1 P40 P1 P1 P2 P2 P2 P2 P40 P1 P1 P2 P2 P2 P2 P2 P2 P2 P2 P2	P38	373866.88	1313043.28	0.00	PI			111		· · · · · · · · · · · · · · · · · · ·	11/1	///		BK3
PRO 873683.05 1313008.05 2.24 PI PRI 773680.73 1313078.2 2.24 PI PRI 773607.73 1313078.2 2.24 PI PRI 773607.73 1313078.2 2.24 PI PRI 773607.73 131308.6 2.24 PI PRI 773607.73 13100.6 2.24 PI PRI 773607.73 13100.6 2.24 PI PRI 773607.73 13100.6 2.24 PI PRI 773607.73 10 10 PI PRI 773607.73 10 PI PRI	P39	373884.16	1313033.59	1.86	PC			111		(1 = 1 / /	///	\ \	一次
PAI 373805.74 133066.0 - 2.64 PI PAG 373805.75 133066.0 - 2.64 PI PAI 373805.71 133066.0 - 2.64 PI PAI 373807.708 133064.07 4.50 PI PAI 373807.708 PI PI PII PII PII PI PII PII PII PII PII PII PII PII PII PII	P40	373883.05	1313060.63	-2.64	PI			111		\mathbf{V}	1 11/	1X1		16
P46 373806.75 133306.60 -2.64 P1 P45 373806.75 133306.60 -2.64 P1 P45 373807.06 13306.60 -2.64 P1 P45 373807.06 13306.60 -2.64 P1 P46 373807.06 13306.60 -2.60 P1 P46 373807.06 133304.07 4.50 P1 P46 373807.06 133304.07 4.50 P1 P46 373807.06 133304.07 4.50 P1 P46 133306.21 133304.07 4.50 P1 P47 P1 P1 P1 P1 P1 P48 133304.07 4.50 P1 P1 P1 P48 133304.07 4.50 P1 P1 P1 P4 133304.07 4.50 P1 P1 P1 P1 P4 P4 P4 P1 P1 <td< td=""><td>P41</td><td>373869.54</td><td>1313052.14</td><td>-2.64</td><td>Pi</td><td></td><td></td><td>111</td><td></td><td>\mathbf{N}</td><td>1 il</td><td>1117</td><td></td><td>11</td></td<>	P41	373869.54	1313052.14	-2.64	Pi			111		\mathbf{N}	1 il	1117		11
P45 373807.07 1313064.07 2.84 P1 P44 373807.07 131304.07 4.50 P1 P45 373807.07 131304.07 4.50 P1 P46 373807.07 131304.07 4.50 P1 P46 373807.08 131304.07 4.50 P1 P47 973807.08 131304.07 4.50 P1 P48 973807.08 131304.07 4.50 P1 P48 973807.08 131304.07 100 P1 P49 98 174 100 100 100 P49 98 174 100 100 100 100 P49 174 100 100 100 100 100 100 P40 100 100	P42	373855.73	1313076.52	-2.64	PI					The Countral Dire	The window State	11/10	1	$\langle X \rangle$
P44 373800.21 1913108.88 -2.00 PT P46 373807.26 191208.88 -2.00 PT P46 373807.26 191208.86 -2.00 PT P46 373807.26 191208.407 4.50	P43	373870.97	1313086.09	-2.64	PI			111		the required exc	avation for the	111	11	\
P46 373807.00 1313044.07 4.50 P46 373807.00 1313044.07 4.50 P46 373807.00 1313044.07 4.50 P50 110 1F 0 100 P17 0 100 P10 0 0 P17 0 100 P17 0 100	P44	373850.31	1313106.86	-2.00	PT					Control Blag, 15	up Station to asold th	1/1	111	Pe.
PP6 \$7,5807,08 1313044.07 4.50 S000 180_LF 0 100_LF 0 100_LF 0 PF6 100_LF 0 100_LF 0 S000 180_LF 0 100_LF 0 100_LF 0 100_LF 0 100_LF 0 100_	P45	373881.78	1312980.50	4.50				1 1 /	22	Emmin		4/ Alm		X
1 197 191	P46	373907.06	1313044.07	4.50				11	3			1 2 12	NITA	
N:573860.28 E:1312974.19 P36 P35 P39 P39 P44 P41 P44 P44 P44 P44 P44 P44 P44 P44							I III							\mathbb{X}
						1 PIPE N:37 E:13 46 LF (2)	00 3905.44 112967.31 24 IN DIA CP © -1.0 PIPE OUTLET	2945 + +	2457	Proposed of SD10 and period	P46 BIC 9 RIS - 2	HDPE @ -3		To a second

100 DO REVIEWED AND APPROVED BY: SNOHOMISH COUNTY DEPARTMENT OF SA OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER 3/8/15 PUBLIC WORKS 5-7-15 DATE APPROVED:

PIPE OUTLET

N:374056.42 E:1313164.62 PUMP STATION OUTLET PROTECTION, SEE SHEET SF10 65

PIPE OUTLET IE:5.00 N:374053.88 E:1313166.17

PIPE OUTLET

N:374051.34 E:1313167.72

SETBACK DIKE





GENERAL NOTES:

- 1. SEE SHEET SF05 AND SF06 FOR PIPE PROFILES. PIPE PROFILES ARE SHOWN ALONG CENTERLINE OF PIPE.
- 2. MANHOLES SHALL BE CONSTRUCTED PER WSDOT STD. PLAN B-15.20-00 COORDINATES SHOWN ARE TO CENTER OF STRUCTURE.
- 3. PIPE LENGTHS SHOWN ARE FROM START OF PIPE TO CENTER OF STRUCTURE, OR END OF PIPE WHEN NO STRUCTURE IS LOCATED.

CONSTRUCTION NOTES

1 CONSTRUCT PIPE INLET PROTECTION PER SHEET SF08.

5 CONSTRUCT TEMPORARY SHORING AND DEWATERING SYSTEM.

11 CONSTRUCT MANHOLE TYPE 1 PER WSDOT STD. PLAN B-15.20-00.

12 CONSTRUCT TEMPORARY SHORING FOR PIPE OUTFALL.

LEGEND

DRAINAGE GATE, S SCHEDULE ON SH	SEE IEET SF06
DXX PIPE PROFILE PE	R SHEETS SF05-SF06
aareeraan oo	CONTOUR (MINOR-EXISTING)
	CONTOUR (MAJOR-PROPOSED)
	RIPRAP
	GRAVEL FILTER MATERIAL

STORM STRUCT	URE TABLE
STRUCTURE NAME:	NORTHING/ EASTING
MH700, TYPE 1-60*	N:375582.81 E:1313243.61



SMITH ISLAND

ENLARGED PLAN

CALL BEFORE YOU DIG 1-800-424-5555

REFERENCE SHEET NO.

SF04

SHEET 29 OF

49 SHEETS





5 CONSTRUCT TEMPORARY SHORING AND DEWATERING SYSTEM.

11 CONSTRUCT MANHOLE TYPE 1 PER WSDOT STD. PLAN B-15.20-00.

12 CONSTRUCT TEMPORARY SHORING FOR PIPE OUTFALL.

eee xxoo

LEG	END		
	DRAINAGE GATE, SEE SCHEDULE ON SHEET SF	06	
SDXX	PIPE PROFILE PER SHEE	TS SF05-SF06	
_	CONTO	UR (MINOR-EXISTING)
	- * * * — CONTO	UR (MAJOR-PROPOSI	ED)
	RIPRAP		
	GRAVE	FILTER MATERIAL	
L			
	STORM STRUCT		
	STRUCTURE NAME:	NORTHING/ EASTING	
	MH700, TYPE 1-60"	N:375582.81 E:1313243.61	
Λ	\sim	\sim	\mathbf{i}
5	THESE PLANS REFLECT INFORMATION, INCLUDIN	T DESIGN	{
(REVISIONS MADE DURIN CONSTRUCTION OTAK	NG HAS NOT	5
7	SURVEYED TO VERIFY	THE)
	AS-BUILT CONDITION		5
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E21	UART RESI	UKATIUN	

PROJECT NO. RR49206

UNION SLOUGH OUTFALL ENLARGED PLAN

DU DIG REFERENCE SHEET NO.

SF04 SHEET 29 OF 49 SHEETS



	12-0171	_1	HanmiGlobal Partner	5-3-15	DATE APPROVED:	PF
			antara 1980 dalam yang balan kana kana kana kana kana kana kana	C. C	5/3/15	
DRA	WN BY:			3 9,25758 es 55	OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER	PUB
					100 Ca	DEPA
PRO	J. NO.	SURVEY NO.	Otak	A CONTRACT OF A		SNOHO

XREF LIST Ltscale: 1 Resolved TTLBLK GSLSEAL 3784-GRDG 3784-GRDG 3784-TOPO 3784-BASE 3784-PCHN 3784-PCHN 3784-PROF 3784-PDRN

PROJ. NO. SURVEY NO.	otak	AN A	REVIEWED AND APPROVED BY:	SNOHOMI: DEPAR
AK UPI# 12-0171-1	Hanmi Global Partner	TO A STREET STREET	SNOHOMISH COUNTY ENGINEER	PROJE

eb 06, 2018 - 2	:32pm				
PROJ. NO.	SURVEY NO.	otak	CORY S.	REVIEWED AND APPROVED BT:	SNOHOMIS DEPART
DRAWN BY:			THE PERSON AND AND AND AND AND AND AND AND AND AN	DOUGLAS W. McCORMICK, P.E. SNOHOMISH COUNTY ENGINEER	PUBLIC
12-01	71–1	HanmiGlobal Partner		DATE APPROVED:	PROJE

XREF_LIST Ltscale: 1 Resolved TTLBLK GSLSEAL 3784-GRDG 3784-TOPO 3784-BASE 3784-PCHN 3784-PROF 3784-PDRN

ID	ТҮРЕ	LOCATION	INSTALLATION	CONNECTING PIPE	QUANTITY	MANUFACTURER*	MODEL SPECS	NORMAL POSITION
	36" DIAM. DRAINAGE FLAP GATE	POND	SPIGOTBACK WITH HDPE ADAPTER	36" I.D. CPEP	2	WATERMAN	AF-41 ALUMINUM FLAP GATE	CLOSED
	24" DIAM. DRAINAGE FLAP GATE	POND	SPIGOTBACK WITH HDPE ADAPTER	24" I.D. CPEP	2	WATERMAN	AF-41 ALUMINUM FLAP GATE	CLOSED
(03)	30" DIAM. IN-LINE DRAINAGE CHECK VALVE	EAST TIDAL CHANNEL	UPSTREAM FLANGED	36" O.D. HDPE	1	TIDEFLEX	IN-LINE CHECKMATE VALVE	CLOSED
(64)	30" DIAM. IN-LINE DRAINAGE CHECK VALVE	UNION SLOUGH	UPSTREAM FLANGED	36" O.D. HDPE	1	TIDEFLEX	IN-LINE CHECKMATE VALVE	CLOSED
(05)	10" DIAM. DRAINAGE CHECK VALVE	EAST TIDAL CHANNEL	CUFF WTH MOUNTING CLAMPS	10" O.D. HDPE	2	TIDEFLEX	ECCENTRIC TF-1 CHECK VALVE	CLOSED
66	4" DIAM. DRAINAGE CHECK VALVE	EAST TIDAL CHANNEL	CUFF WTH MOUNTING CLAMPS	4" O.D. HDPE	1	TIDEFLEX	ECCENTRIC TF-1 CHECK VALVE	CLOSED

XREF LIST Ltscale: 1 Resolved TTLBLK GSLSEAL 3784-GRDG 3784-GRDG 3784-HASE 3784-POPO 3784-PCHN 3784-PROF 3784-PRN

XREF LIST Ltscale: 1 Resolved TTLBLK GSLSEAL

1 1 10-Stock BASE ASSEMBLY 1.1 1 10-Stock RAGE ASSEMBLY 1.2 2 31-4463 QUICK DISCHARGE ELBOW - 10m - 1.3 1.3 1.31-5422 QUICK DISCHARGE ELBOW - EBAA. 4.X 1.5 3 31-6040 ANCHOR KIT - DISCHARGE ELBOW - EBAA. 4.X 1.5 3 31-6040 ANCHOR KIT - DISCHARGE ELBOW - EBAA. 4.X 1.6 1 42-5651 COUPLING - STAR - RFCA - 4In FRE 1.7 2 42-5522 GASKET - FLANGE - 10m X 1/8In 2 11-24515 BAAREL - 10h DIA X R H 3 3 112-5903 BAAREL - 10h DIA X AR H 5 5.2 11-45404 TOP SLAB - WW - 10h FED - TRIPLEX 5.2 11-45404 TOP SLAB - SWP - 10h CT -12X T 6 11-8-5157 4 In PVC VENT FED - TRIPLEX 7 18-6009 DISCHARGE ELAWP DOT - 1-2X T 10.1 18-757 DISCHARGE ELAWP DOT - 1-2X T 11.1 18-757 DISCHARGE ELAWP DOT - 1-2X T 10.1 18-757 DISCHARGE	ITEM	QTY	STOCK NUMBER	DESC
1.1 1 10 10 10 10 11 10<	1	1	10-XXXXX	BASE ASSEMBLY
1.2 2 31-4463 QUICK DISCHARGE ELBOW - 10m- 1.3 31-542 QUICK DISCHARGE ELBOW - EBARA - 4 X 1.5 3 31-640 ANCHOR KIT - DISCHARGE ELBOW 1.6 1 42-555 COUPLING - STAR - RCA - 4m FBE 1.7 2 42-5661 RFCA - 8in 1.8 2 44-40000 REDUCER - DI - ECCENTRIC - 10 X 1.9 2 47-5252 GASKET - FLANGE - 10n X 1/8in 2 1 12-4615 BARREL - 10n DIA X 3ft H 4 1 12-5903 BARREL - 10n DIA X 4ft H 5.1 1 13-5338 HATCH - WW - 10r PED - TRIPLEX 5.2 1 14-5404 TOP SLAB ASSEMBLY 5.1 1 18-5157 4 in PVC VENT 7 1 18-5457 DISCHARGE PIPE SUPPORT - WLI 8 2 18-7457 DISCHARGE PIPE SUPPORT - NOLT 10.1 4 12-7604 BARREL GASKET 10.2 18-4057 UGBB - J.Sn - EBARA 10.3 18-46031 B	1.1	1	10-5168	BASE - WW - 10ft - RU FLAT BASE -
1.3 1 31-5422 QUICK DISCHARGE ELOOW CONNECTOR 1.4 1 31-5400 ANCHOR KIT - DISCHARGE ELOOW 1.5 3 31-6040 ANCHOR KIT - DISCHARGE ELOW 1.7 1 42-5651 COUPLING - STAR - RFCA - 4In FBE 1.8 2 44-5000X REDUCER - DI - ECCENTRIC - 10 X 1.9 2 47-5252 GASKET - FLANGE - 100 DI X SR H 3 1 12-5903 BARREL - 100 DI X SR H 3 1 12-5904 BARREL - 100 DI X SR H 5.1 1 13-5338 HATCH - WW - 100 PED - TRIPLEX 5.2 1 14-5404 TOP SLAB ASSEMBLY 5.1 1 18-5338 HATCH - WW - 100 PED - TRIPLEX 6 1 18-5457 DISCHARGE ELOWP NOT - WALL 8 2 18-7457 DISCHARGE ELOWP NOT - NULL 10.1 1 18-5002 DISCHARGE ELOWP RE - BUPORT - WALL 8 2 18-7637 DISCHARGE PIPE SUPPORT - BOLT - 1-2X 1 9 1 18-7637	1.2	2	31-4463	QUICK DISCHARGE ELBOW - 10in -
1.4 1 31-5481 DISCHARGE ELROW - EBARA - 4 X 1.5 3 31-6040 ANCHOR KT - DISCHARGE ELROW 1.6 1 42-5659 COUPLING - STAR - RFCA - 4in FBE 1.7 2 42-5552 GASKET - FLANGE - 10in X 1/8in 1.8 2 44-50200 REDUCER - DI - ISCENTRIC - 10 X 1/8in 2 1 12-4513 BAAREL - 100 DIA X 4ft H 3 1 12-5904 BAAREL - 100 DIA X 4ft H 5 1 14-5000 TOP SLAB ASSEMBLY 5.2 1 14-5404 TOP SLAB ASSEMILY 7 1 18-602 DISCHARGE PIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - ROLT 10.1 1 18-4057 UGBB - 3.1n - EBARA 10.3 18-4673 DILING WELL SUPPORT BRACKET 10.4 12-ROM BARREL GASKET 10.5 18-46020 LIFTING CLUTCH - 8 TON 10.6 18-6020 LIFTING CLUTCH - 8 TON 10.6 18-6020 LIFTING SULTCH - 8 TON	1.3	1	31-5422	QUICK DISCHARGE CONNECTOR - L
1.5 3 31-6040 ANCHOR KIT - DISCHARGE ELROW 1.6 1 42-5559 COUPLING - STAR - RFCA - 4in FBE 1.7 2 42-5661 RFCA - 8in 1.8 2 44-4000X REDUCER - DI - ECCENTRIC - 10 X 1.9 2 1 12-4615 BARREL - 10D DIA X 5R H 3 1 12-5903 BARREL - 10D DIA X 4R H 4 1 12-5904 BARREL - 10D DIA X 4R H 5 1 14-500X TOP SLAB ASSEMBLY 5.1 14-500X TOP SLAB - WW - 10R PED - TRUPLEX 5.2 1 14-500X TOP SLAB - WW - 10R PED - TRUPLEX 6 1 18-5157 4 in PVC VENT 7 7 18-6009 DISCHARGE CLAMP PORT - 12-XI 19 10.1 4 12-ROM BARREL GASKET 10.1 10.1 1 12-RAST DISCHARGE CLAMP DER GUNT - 12-XI 10.1 1 12-RAST DISCHARGE CLAMP DER GUNT - 12-XI 10.1 1 12-RAST DISCHARGE CLAMP DER G	1.4		31-5481	DISCHARGE ELBOW - EBARA - 4 X 4
1.6 1 42-5659 COUPLING - STAR - RFCA - 4in FBE 1.7 2 42-5651 RFCA - 8in 1.8 2 44-4000X REDUCER - DI - ECCENTRIC - 10 X 1.9 2 47-5252 GASKET - FLANGE - 10in X 1/8in 2 1 12-6303 BARREL - 10n DIA X 5R H 3 1 12-5904 BARREL - 10n DIA X 4R H 5 1 14-5000 TOP SLAB ASEMBLY 5.1 1 13-5338 HATCH - WW - 10R PED - TRIPLEX 5.2 1 14-5404 TOP SLAB ASEMBLY 5.1 1 18-5338 HATCH - WW - 10R PED - TRIPLEX 6 1 18-7517 DISCHARGE PIPE SUPPORT - WALL 8 2 18-47AST DISCHARGE CAMP BUPORT - BUT 10.1 18-7AST DISCHARGE PIPE SUPPORT - BUPORT	1.5	3	31-6040	ANCHOR KIT - DISCHARGE ELBOW
1.7 2 42-5661 RFCA - Bin 1.9 2 47-5252 GASKET - FLANGE - 10In X 1/8in 2 1 12-4615 BARREL - 10In DIA X SR H 3 1 12-5903 BARREL - 10In DIA X SR H 3 1 12-5904 BARREL - 10In DIA X SR H 3 1 12-5903 BARREL - 10In DIA X SR H 5.1 1 14-5004 BOR ASSEMBLY 5.1 1 14-5007 TOP SLAB ASSEMBLY 5.2 1 14-5404 TOP SLAB ASSEMBLY 6 1 18-5157 4 in PVC VENT 7 1 18-6009 DISCHARGE PIPE SUPPORT - PALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - BALT 10.1 4 12-ROM BARREL GASKET 10.2 18-4057 UGBB - 3.15n - EBARA 10.3 18-6031 BOLT & NUT KT - UPPER GUIDE BAL 10.4 18-5468 UGBB - 1.5in - EBARA 10.5 3 12-64532 VALVE KEY - EXT GATE WRENCH	1.5		42-5659	COUPLING - STAR - RFCA - 4in FBEC
1.8 2 44-4000X REDUCER - DI - ECCENTRIC - 10 X 1.9 2 47-5252 GASRET - FLANGE - 10h DIA X 3ft H 3 1 12-5903 BARREL - 10h DIA X 3ft H 4 1 12-5904 BARREL - 10h DIA X 3ft H 5 1 14-5000 TOP SLAB ASSEMBLY 5.1 11-53338 HATCH - WW - 10ft PED - TRIPLEX 5.2 1 14-5404 TOP SLAB - WW - 10ft PED - TRIPLEX 5.2 1 14-5404 TOP SLAB - WW - 10ft PED - TRIPLEX 5.2 1 14-5404 TOP SLAB - WW - 10ft PED - TRIPLEX 7 1 18-6009 DISCHARGE PIPE SUPPORT - WALT 8 18-FAST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12-ROM BARREL GASKET 10.2 18-4057 UGBB - 3in - EBARA 10.3 1 18-6020 LIFTING CLITCH - 8 TON 10.4 12-6453 PUMP LIFTING CLUTCH - 8 TON 10.5 4 18-6020 LIFTING CLUTCH - 8 TON 10.6 3 18-6031<	1.7	2	42-5661	RFCA - 8in
1.9 2 47-5252 GASKET - FLANGE - 100n X 1/8in 2 1 12-6503 BARREL - 100n DIA X 5R H 3 1 12-5904 BARREL - 100n DIA X 5R H 4 1 12-5904 BARREL - 100n DIA X 4R H 5 1 14-5004 TOP SLAB ASSEMBLY 5.1 1 13-5338 HATCH - WW - 100n PED - TRIPLEX 5.2 1 14-5404 TOP SLAB - WW - 100n PED - TRIPLEX 6 1 18-5157 4 in PVC VENT 7 1 18-6409 DISCHARGE PIPE SUPPORT - WALL 8 2 18-7AST DISCHARGE CLAMP BOLT - 1-2X 1 9 1 18-7AST DISCHARGE CLAMP BOLT - 1-2X 1 10.1 1 18-4057 UGBB - 3in - EBARA 10.3 1 18-4057 UGBB - 3in - EBARA 10.3 1 18-6020 LIFTING CLUTCH - 8 TON 10.4 1 18-5492 LINK + 17 - UPPER GUIDE BAR 10.7 2 18-000X SPACER - 4n - UPPER GUIDE AAR 10.8	1.8		44-4XXXX	REDUCER - DI - ECCENTRIC - 10 X 8
2 1 112-5903 BARREL - 10R DIA X SR H 3 1 12-5904 BARREL - 10R DIA X SR H 4 1 12-5904 BARREL - 10R DIA X SR H 5 1 14-500X TOP SLAB ASSEMBLY 5.1 1 13-5338 HATCH - WW - 10R PED - TRIPLEX 5.2 1 14-5404 TOP SLAB ASSEMBLY 5.2 1 14-5404 TOP SLAB ASSEMBLY 7 1 18-6409 DISCHARGE PIPE SUPPORT - WALL 8 2 18-7AST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12-ROM BAREL GASKET 10.2 18-4057 UGBB - 1.Sin - EBARA 10.3 1 18-4874 STILLING WELL SUPPORT BRACKE 10.4 12-ROM BAREL GASKET 10.4 10.5 4 18-6020 LIFTING CLUTCH - 8 TON 10.6 3 18-6031 BOLT & NUT KT - UPPER GUIDE BAR 10.7 2 18-200X SPACER - 41n - 10PER GUIDE GAR 10.7 1 32-6552 </td <td>1.9</td> <td>2</td> <td>47-5252</td> <td>GASKET - FLANGE - 10in X 1/8in</td>	1.9	2	47-5252	GASKET - FLANGE - 10in X 1/8in
3 1 12-5903 BARREL - 10R DIA X 3R H 4 1 12-5904 BARREL - 10R DIA X 3R H 5 1 14-500X TOP SLAB ASSEMBLY 5.2 1 14-5404 TOP SLAB - WW - 10R PED - TRIPLEX 5.2 1 14-5404 TOP SLAB - WW - 10R PED - TRIPLEX 6 1 18-5157 4 in PVC VENT 7 1 18-6009 DISCHARGE PIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4637 UGBB - 3in - BBARA 10.3 1 18-4674 STILLING WELL SUPPORT BRACKE 10.4 1 18-5468 UGBB - 1.Sin - EBARA 10.5 4 18-6020 LIFTING CLITCH - 8 TON 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE B 10.6 3 18-5468 UGBB - 1.Sin - EBARA 10.7 18-4673 PUMP LIFTING CLITCH - 8 TON 10.8 12-5652	2	<u> </u>	12-4615	BARREL - 10ft DIA X 5ft H
4 1 12-5904 BARREL - 10ft DJA X #ft H 5 1 14-5004 TOP SLAB ASSEMBLY 5.1 1 13-5338 HATCH - WW - 10ft PED - TRIPLEX 6 1 18-5157 4 in PVC VENT 7 1 18-609 DISCHARGE PIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - NULL 9 1 18-FAST DISCHARGE CLAMP BOLT - 1-2 X 1 9 1 18-FAST DISCHARGE CLAMP BORT - NULL 10.1 4 12-ROM BARREL GASKET 10.2 18-4057 UGBB - 3in - EBARA 10.3 18-4037 STULING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBB - 1.5in - EBARA 10.5 4 18-6020 LIFTING CLITCH - 8 TON 10.6 3 24-673 PUMP LIFTING CLITCH - 8 TON 10.10 3 24-673 PUMP LIFTING CLITCH - 8 TON 10.11 3 32-5942 BOW SHACKLE - 3-8in - 5S W-5CRE 10.12 6 32-5999 </td <td>3</td> <td></td> <td>12-5903</td> <td>BARREL - 10ft DIA X 3ft H</td>	3		12-5903	BARREL - 10ft DIA X 3ft H
S 1 14-XXX TOP SLAB ASSEMBLY 5.1 1 13-5338 HATCH - WW - 100 PED - TRIPLEX 5.2 1 14-5404 TOP SLAB ASSEMBLY 5.2 1 14-5404 TOP SLAB ASSEMBLY 7 1 18-6009 DISCHARGE PIPE SUPPORT - WALL 8 2 18-4XT DISCHARGE PIPE SUPPORT - WALL 9 1 18-FAST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12-ROM BAREL GASKET 10.2 2 18-4057 UGBB - 3in - EBARA 10.3 1 18-4874 STILLING WELL SUPPORT BRACKE 10.4 1 18-5402 LIFTING CLUTCH - 8 TON 10.5 4 18-6031 BOLT & NUT KT - UPPER GUIDE BR 10.6 3 18-6031 BOLT & NUT KT - UPPER GUIDE BR 10.7 2 18-X00X SPACER - 4in - UPPER GUIDE BR 10.8 1.25-6552 VALVE KY - EY GATE WERNCH 10.9 1 32-6599 CHAIN - 55 5-16in 31655 10.12 2.	4		12-5904	BARREL - 10ft DIA X 4ft H
5.1 1 1.5-338 IPATCH - WW - 10ft PED - TRUPL 5.2 1 14-5404 TOP SLAB - WW - 10ft PED - TRUPL 6 1 18-5157 4 in PVC VENT 7 1 18-6009 DISCHARGE PIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - WALL 9 1 18-FAST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4057 UGBB - 31n - EBARA 10.3 1 18-4674 STILLING WELL SUPPORT BRACKE 10.4 12-8002 LIFTING CLITCH - 8 TON 10.6 10.5 4 18-6020 LIFTING CLITCH - 8 TON 10.6 1 32-5452 VALVE KEY - EXT GATE WRENCH 10.8 1 22-6552 VALVE KEY - EXT GATE WRENCH 10.11 3 32-5492 LINK - 1/21 N 0BLONG CORROSION 10.12 6 32-5999 CHAUN - S5 5-1616 31655 10.13 32-6354 LIFTING SLING - 12-25 N SC CABLE <td< td=""><td><u> </u></td><td></td><td>14-XXX</td><td>TOP SLAB ASSEMBLY</td></td<>	<u> </u>		14-XXX	TOP SLAB ASSEMBLY
3.2 1 14*540* 10*SL8* WW - 10T PLP - RUT 6 1 18*5157 4 in PVC VENT 7 1 18*6009 DISCHARGE CLAMP BOLT - 1-2X IL 9 1 18*FAST DISCHARGE PIPE SUPPORT - BOLT 10.1 4 12*ROM BARREL GASKET 10.1 4 12*ROM BARREL GASKET 10.2 18*4057 UGBB - 3:n - EBARA 10.3 18*6020 LIFTING CLUTCH - 8 TON 10.4 18*5488 UGBB - 1.5in - EBARA 10.5 4 18*6020 LIFTING CLUTCH - 8 TON 10.6 3 18*6131 BOLT & NUT KIT - UPPER GUIDE BAR 10.7 2 18*000X SPACER - 4in - UPPER GUIDE GAR 10.8 1.25*6552 VALVE KIY - EXT GATE WRENCH 10.9 1 32-4673 PUMP LIFTING EYE 10.10 3 32-5942 DOW SHACKLE - 3*8in - SS W-SCRE 10.11 3 32-5942 DOW SHACKLE - 3*8in - SS W-SCRE 10.12 32-6354 LIFTING SLIMG - 1.240 DIA S <	5.1	1	13-5338	HATCH - WW - 10ft PED - TRIPLEX -
0 1 18-5157 4 IN PVC VENI 7 1 18-6099 DISCHARGE PIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE PIPE SUPPORT - BOLT 10 1 18-X00X SHIPPING CRATE 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4057 UGBB - 3in - EBARA 10.3 1 18-4874 STILLING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBB - 1.5in - EBARA 10.5 4 18-6020 LIFTING CLUTCH - 8 TON 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE BAR 10.7 2 18-X00X SPACER - 4in - UPPER GUIDE BAR 10.8 12-54552 VALVE KEY - KT GATE WRENCH 10.9 1 32-4673 PUMP LIFTING EVE 10.11 3 22-5942 BOW SHACKLE - 3-8in - SW-SCRE 10.12 6 32-5999 CHAIN - 55 5-16in 31655 10.12 32-618 CORD GRIP - 1.50in - 1.74in DIA SU 10.13 12-524518	2,2	<u> </u>	14-2404	TOP SLAB - WW - TOT PED - TRIPLE
1 10-8-009 DISCHARGE DIPE SUPPORT - WALL 8 2 18-FAST DISCHARGE DIPE SUPPORT - BOLT 10 1 18-X00X SHIPPING CRATE 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4057 UGBB - 3in - EBARA 10.3 1 18-4974 STILLING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBE - 1.5in - EBARA 10.5 4 18-6031 BOLT & NUT KIT - UPPER GUIDE BAL 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE BAR 10.8 1 25-5552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-4573 PUMP LIFTING CLUTCH - 8 TON 10.10 3 32-5492 LINK - 1/2in OBLONG CORROSION 10.11 3 32-5492 DW SHACKE - 3-8in - SS W-SCRE 10.12 6 32-5999 CHAIN - SS S-16in 316SS 10.13 132-6615 CORD GRIP - 1.0001n - 1.240 DIA S 10.14 2 32-6118 CORD GRIP - 1.0001n - 1.240 DIA S <td< td=""><td></td><td>÷</td><td>18-515/</td><td></td></td<>		÷	18-515/	
a 2 18-F7S1 DISCHARGE DIPE SUPPORT - BOLT 10 1 18-FX5T DISCHARGE DIPE SUPPORT - BOLT 10.1 1 18-X00X SHIPPING CRATE 10.2 2 18-4057 UGBB - 3in - EBARA 10.3 1 18-4674 STILLING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBB - 1,5in - EBARA 10.5 4 18-6031 BOLT & NUT KIT - UPPER GUIDE BAR 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE BAR 10.7 2 18-X00X SPACER - 4in - UPPER GUIDE BAR 10.8 1 25-6552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-4673 PUMP LIFTING FYE 10.10 3 25-592 LINK - 1/2In OBLONG CORROSION 10.11 3 32-5065 CORD GRIP - 1.0001n - 1.240 DIA S 10.12 6 32-5999 CHAIN - SS 5-16in 316SS 10.13 32-665 CORD GRIP - 1.0001n - 1.240 DIA S 10.14 23-5418 CORD GRIP - 1.0001 - 1.240 DIA S	0		10-0009	DISCHARGE PIPE SUPPORT - WALL
9 1 105-TAST DISCHAGE PIPE SUPPORT PIPE OF CATE 10.1 18-200X SHIPPING CRATE 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4057 UGBB - 1.Sn - EBARA 10.3 1 18-4848 UGBB - 1.Sn - EBARA 10.5 4 18-5020 LIFTING CLUTCH - 8 TON 10.6 3 18-6031 BOLT & NUT KT - UPPER GUIDE BAR 10.8 1 25-6552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-4673 PUMP LIFTING EVE 10.10 3 32-5492 LINK - 1/2in OBLONG CORROSION 10.11 3 32-5492 LINK - 1/2in OBLONG CORROSION 10.11 3 25-618 CORD GRIP - 1.000in - 1.240 DIAS 10.12 6 32-5492 DW SHACKLE - 3-81n - 528 10.13 32-6618 CORD GRIP - 1.000in - 1.240 DIAS 10.14 32-5412 VALVE BOX - TOP - #910 X 18in TA 10.15 3 2-6138 CORD GRIP - 1.000in - 1.240 DIAS 10.16 41	0	4	10-TA31	DISCHARGE CLAMP BULI - 1-2 X I :
10.1 1 10.1 4 12-ROM BARREL GASKET 10.2 2 18-4057 UGBB - 3in - EBARA 10.3 1 18-4874 STILLING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBB - Jin - EBARA 10.5 4 18-6020 LIFTING CUTCH - 8 TON 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE BAL 10.6 3 12-56552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-25492 LINK - 1/2in OBLONG CORROSION 10.11 3 32-5492 LINK - 1/2in OBLONG CORROSION 10.12 6 32-5999 CHAIN - 55 5-16in 316SS 10.13 32-605 CORD GRIP - 1.50in - 1.240 DIA S 10.14 2 32-6118 CORD GRIP - 1.50in - 1.240 DIA S 10.13 32-6354 LIFTING SLING123in SS CABLE - 10.16 10.14 2 32-6118 CORD GRIP - 1.50in - 1.74in DIA S 10.17 3 41-5142 VALVE BOX - LID - #910 10.17 3 41-5142 VALVE		4	10-FA31	DISCHARGE PIPE SUPPORT - DULT
10.1 + 12-ROM BARKEL GASKET 10.2 12 18-4057 UGBB - 3.15n - EBARA 10.3 1 18-5488 UGBB - 1.5n - EBARA 10.4 1 18-5020 LIFTING CLUTCH - 8 TON 10.5 4 18-6020 LIFTING CLUTCH - 8 TON 10.6 3 18-5631 BOLT & MUT KIT - UPPER GUIDE BAR 10.7 2 18-3000X SPACER - 4in - UPPER GUIDE BAR 10.8 1 22-6572 VALVE KEY - EXT GATE WRENCH 10.9 1 32-6942 BOW SHACKLE - 3-8in - SS W-SCRE 10.11 3 32-5942 BOW SHACKLE - 3-8in - SS W-SCRE 10.12 6 32-5942 BOW SHACKLE - 3-8in - SS W-SCRE 10.13 13 32-6354 LIFTING SLING - 125in SC ABLE- 10.14 2 32-6118 CORD GRIP - 1.500n - 1.740 DIA S 10.15 3 41-5139 VALVE BOX - DP - #910 X 18in TA 10.16 3 41-5139 VALVE BOX - DP - #910 X 18in TA 10.17 3 42-5723 S	10 1		12-0014	
10.3 1 18-874 STILLING WELL SUPPORT BRACKE 10.4 1 18-5488 UGBB - 1.5in - EBARA 10.5 4 18-6031 BOLT & NUT KIT - UPPER GUIDE B 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE BA 10.7 2 18-2000 SPACER - 4in - UPPER GUIDE BAR 10.8 1 25-6552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-6492 LINK - 1/2in OBLONG CORROSION 10.11 3 32-5999 CHAIN - S5 5-16in 316SS 10.12 6 32-5999 CHAIN - S5 5-16in 316SS 10.13 13 32-6055 CORD GRIP - 1.000in - 1.240 DIA S 10.14 2 32-6118 CORD GRIP - 1.000in - 1.240 DIA S 10.15 3 24-6354 LIFTING SLING125in SS CABLE - 101A 10.14 2 32-612 VALVE BOX - DP - #910 18in T4 10.17 3 41-5139 VALVE BOX - LD - #910 18in T4 10.18 3 41-5142 VALVE BOX - LD - #910 18in T4	10.1		19.4057	LICOD - 20 - EDADA
10.1 10-907 STILLING WELL SOFTOK T BRACKE 10.4 118-5488 UGBB - 1.51n - EBARA 10.5 4 18-6031 BOLT & NUT KIT - UPPER GUIDE B 10.6 3 18-6031 BOLT & NUT KIT - UPPER GUIDE B 10.7 2 18-x00X SPACER - 4in - UPPER GUIDE BAR I 10.8 1 25-5552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-4673 PUMP LITTING EYE 10.10 3 32-5942 BOW SHACKLE - 3-8in - SS W-SCRE 10.11 3 32-5999 CHAIN - S5 5-16in 316SS 10.12 6 32-5999 CHAIN - S5 5-16in 316SS 10.13 32-6354 LIFTING SLING1240 DIA S 10.14 2 32-6118 CORD GRIP - 1.000in - 1.240 DIA S 10.15 3 32-6354 LIFTING SLING125in SC ABLE - 10.14 2 32-6118 CORD GRIP - 1.50in - 1.74in DIA S 10.17 3 41-5143 VALVE BOX - TDP - #910 X 18in TP 10.17 3 42-5723 STAR FLANGE ADAPTER - 4in - SER <	10.2		10-1037	CTILLING WELL CHIDDODT BRACKET
10.5 1 10.7500 0000 1.5111 Cleardon 10.5 4 18-6020 LIFTING CLUTCH - 8 TON 10.6 3 18-6020 LIFTING CLUTCH - 8 TON 10.8 1 25-6552 VALVE KEY - EXT GATE WRENCH 10.9 1 32-4673 PUMP LIFTING EYE 10.10 3 32-5942 BOW SHACKLE - 3-8in - SS W-SCRE 10.11 3 32-5942 BOW SHACKLE - 3-8in - SS W-SCRE 10.12 6 32-5999 CHAIN - SS 5-16in 316SS 10.14 2 32-6118 CORD GRIP - 1.50in - 1.74in DIA S 10.15 3 2-6354 LIFTING SLIMG - 1.25in SS CABLE- 10.16 3 41-5139 VALVE BOX - TOP - #910 X 18in TA 10.17 3 41-5143 VALVE BOX - LID - #910 10.18 3 41-5133 VALVE BOX - LID - #910 10.19 1 42-5723 STAR FLANGE ADAPTER - 4in - SER 10.20 2 42-5724 STAR FLANGE ADAPTER - 4in - SER 10.21 1 42-5725 DOUBLE-	10.5	4	19.5499	LICOR - 1 Sto - EDADA
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10.31 174 51-6081 SEALANT - 1in X 1in X 14.5ft CS-20 10.32 1 51-ROM NEVER SIEZE - TUBE 10.33 1 60-4896 PRESSURE TRANSDUCER - 4-20 ma 10.34 1 62-5981 BRACKET - PRESS TRANS LVL 11 1 18-XXX DISCHARGE PIPE BRACKET 12 2 30-5500 PUMP - EBARA - 250DLCFU615 20 13 1 30-5500 PUMPS - EBARA - 100DLMFU63.7 - 14 29 40-4125 PIPE - 304SS - 1.5in SCH40 (2 @ 14 16 2 41-5233 VALVE - PLUG - 8in - GEAR OP 17 2 41-6157 VALVE - SWING CHECK - 8in 18 1 41-6563 VALVE - SWING CHECK - 4in 20 2 43-5186 KOR-N-SEAL - 8in CORE -1.70 THRI 21 1 43-5579 KOR-N-SEAL - 12in CORE - 8in X 60in - DI 22 2 43-6135 KOR-N-SEAL - 12in CORE - 8in X 60in - DI 23 2 45-5070 SPOOL - FLG X PE - 8in X 60in - DI 24 1 45-5216 <td>10,30</td> <td>150</td> <td>51-5949</td> <td>TAPECOAT - 6in X .65mils X LFT</td>	10,30	150	51-5949	TAPECOAT - 6in X .65mils X LFT
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10.33 1 60-4896 PRESSURE TRANSDUCER - 4-20 ma 10.34 1 62-5981 BRACKET - PRESS TRANS LVL 11 1 18-X00X DISCHARGE PIPE BRACKET 12 2 30-5500 PUMP - EBARA - 250DLCFU615 20 13 1 30-5500 PUMPS - EBARA - 100DLMFU63.7 - 14 29 40-4125 PIPE - 304SS - 1.5in SCH40 (2 @ 14 15 56 40-5262 PIPE - 304SS - 3in SCH40 - 4 @ 14f 16 2 41-5233 VALVE - PLUG - 8in - GEAR OP 17 2 41-6157 VALVE - SWING CHECK - 8in 18 1 41-6563 VALVE - PLUG - 4in - WITH OP NUT 19 1 41-6565 VALVE - SWING CHECK - 4in 20 2 43-5186 KOR-N-SEAL - 8in CORE - 1.70 THRit 21 1 43-5579 KOR-N-SEAL - 12in CORE - 8in PIPE 23 2 45-5067 SPOOL - FLG X PE - 8in X 60in - DI 24 1 45-5070 SPOOL - FLG X PE - 4in X 72in - DI 25 1 45-5216	10.32	1	51-ROM	NEVER SIEZE - TUBE
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15 56 40-5262 PIPE - 304SS - 3in SCH40 - 4 @ 14f 16 2 41-5233 VALVE - PLUG - 8in - GEAR OP 17 2 41-6157 VALVE - SWING CHECK - 8in 18 1 41-6563 VALVE - PLUG - 4in - WITH OP NUT 19 1 41-6565 VALVE - SWING CHECK - 4in 20 2 43-5186 KOR-N-SEAL - 8in CORE - 1.70 THRi 21 1 43-5579 KOR-N-SEAL - 28in CORE X 24in 22 2 43-6135 KOR-N-SEAL - 12in CORE X 24in 22 2 43-6135 KOR-N-SEAL - 12in CORE - 8in PIPE 23 2 45-5067 SPOOL - FLG X PE - 8in X 60in - DI 24 1 45-5070 SPOOL - FLG X PE - 4in X 72in - DI 25 1 45-5216 SPOOL - FLG X PE - 4in X 60in - DI 26 2 45-5240 SPOOL - FLG X PE - 8in X 36in - DI 27 2 46-520 ELBOW - DI - 8in - 90 DEG - FLG X 28 1 46-6520 ELBOW - DI - 4in - 90 DEG - FLG X 29 3 <td< td=""><td>14</td><td>29</td><td>40-4125</td><td>PIPE - 304SS - 1.5in SCH40 (2 @ 14.</td></td<>	14	29	40-4125	PIPE - 304SS - 1.5in SCH40 (2 @ 14.
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26 2 45-5240 SPOOL - FLG X PE - 8in X 36in - DI 27 2 46-5281 ELBOW - DI - 8in - 90 DEG - FLG X 28 1 46-6520 ELBOW - DI - 4in - 90 DEG - FLG X 29 3 48-4537 PIPE - PVC - 6in x 48in	25	1	45-5216	SPOOL - FLG X PE - 4in X 60in - DI
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29 3 48-4537 PIPE - PVC - 6in x 48in	28	1	46-6520	ELBOW - DI - 4in - 90 DEG - FLG X F
	29		48-4537	PIPE - PVC - 6in x 48in

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excavation areas	QUANTITIES (CY)
POND EXCAVATION INCL. HAUL	85,200
ROADWAY EXCAVATION INCL. HAUL	
STRIPPING BELOW SETBACK DIKE	23,800
SETBACK DIKE TOE DITCH	14,800
SETBACK DIKE RIPRAP TRENCH AND BURIED TOE	8,900
POWER CONDUIT TRENCH	3,600
EXCAVATION FOR BURIED WINDROWS FOR PIPELINE EROSION PROTECTION	25,000
EXISTING DITCH EXCAVATION FOR ARMORING	700
EXCAVATION FOR 51ST AVE REMOVAL	500
TOTAL (ROUNDED	162,500
REQUIRED NON-STRUCTURAL EMBANKMENTS	1
DITCH FILLS	0.000
DF 1	2,131
DF 2	2,354
DF 3	1,648
DF 4	1,845
DF 5	1,784
DF 6	158
DF 7	4,126
DF 8	3,134
DF 9	1,845
DF 10*	151
DF 11*	<u> </u>
DF 12*	149
DF 13*	-
DF 14*	201
DF 15	990
DF 16*	-
DF 17	98
DF 18	159
DF 19*	117
DF 20*	162
DF 21*	115
DF 22*	516
DF 23*	204
TOE BERM	29,800
BACKFILL, WINDROW EXCAVATION	17,500
PIPELINE EROSION PROTECTION	37,700
TOPSOIL TYPE D	7,000
DRAINAGE SWALE FROM EXISTING DITCH	82
TOTAL (ROUNDED)	114,000
SURPLUS EXCAVATED MATERIAL DISPOSAL AREAS	
SURPLUS DISPOSAL AREA 1 - NORTH BENCH	10,500
SURPLUS DISPOSAL AREA 2 - BENCH NEAR PIPELINE	38,000
TOTAL	48,500

Ltscale: 1 ------Resolved 3784-BASE TTLBLK GSLSEAL 3784-DTCH 3784-PDRN 3784-PRJL Unresolved 3784-PCHN

A PORTION OF SECTIONS 9,10,15,&16, TOWNSHIP 29 NORTH, RANGE 05 EAST, W.M.

a subscription of the second se	
NOTE: ACCEPTABLE TREE PLANTING SHALL HAVE ROOT FLARE FLUSH TO 2" ABOVE SURROUNDING GRADE.	$\sum_{i=1}^{n}$
TREE PER PLAN &	
SPECIFICATIONS 4" DEPTH BARK OR WOOD CHIP	
SET ROOTBALL ON SUBGRADE.	
BURLAP FROM TOP AND SIDES OF ROOTBALL. REMOVE UPPER 3/4 OF	
WIRE BASKETS.	
SOIL AMENDMENT DETAIL	
SUBGRADE BELOW ROOT BALL	
CONIFEROUS TREE	
PLANTING DETAIL	
NOT TO SCALE	
525 Juz	W
5 ~ 2	RIGH1-OF-
4" DEPTH BARK OR WOOD	
AMENDED SOIL PER SOIL AMENDMENT DETAIL	
EVENLY SPREAD ROOTS	
NATIVE SHRUBS PLANTING DETAIL	PARKI
NUT TO SCALE	
ADD 2" FINE COMPOST PER	eatures on this
OF NATIVE SOIL FOR TOTAL OF 10" AMENDED SOIL	ructed as part c
2" COMPOST	
10" AFTER SETTLEMENT 8" NATIVE SOIL	
SOIL AMENDMENT DETAIL	
r S	
Last	Saved By: otak Jun
REGION ST	ATE FED. AID P
DESIGNED	BY: C
ADDENDUM NO. 2 DAS FIELD BOOK	 ЭК(S):

	SCIENTIFIC NAME	COMMON NAME	SIZE	ESTIMATED			
	PINUS CONTORTA VAR. CONTORTA	SHORE PINE	8' TALL +	4			
	SYMPHORICARPOS ALBUS	SNOW BERRY	1 GALLON	74			
Λ	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	1 GALLON	65			
SEEDING AND MULCHING, SEED WITH LOWLAND SEED MIX							
	COMPOST-AMENDED, VEGETATED FILTER	STRIP					

FILE: E1.DWG - E1 | EDIT: 5/7/2015 11:45 AM BY MICHAELA | PLOT: 5/7/2015 1:23 PM BY MICHAEL ADAMS

	DICAL CV		NIICT	ne natis e ne sua ella n F	n de reade	Ellisti Bellik († 133	2.2
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Raceways

EXISTING WORK

DETAIL NUMBER AND SHEET LOCATION

CONDUIT ROUTED BELOW FLOOR / GRADE

NEW WORK

KEYED NOTE

NOTE: This is a standard symbol list and not all items listed may be used.

2	ŗ	1	S
.		龖	1

UNDERGROUND

Connections / Equipment

NON-FUSED DISCONNECT SWITCH

TRANSFORMER

See revised sheet E1 (next she	eet) showing revise	d conduit routir	TRICAL SEI	RVICE			
	PRIMARY CONDUIT PRIMARY CONDUCTORS TRANSFORMER TRANSFORMER VAULT PRIMARY GROUNDING BOLLARDS	ELEC. UTILITY CONTR. CO. CONTR. CO. CO. CONTR. CO. CO. CONTR. CO. CO. CO. CO. CO. CO. CO. CO.	TRANSFORM CONNECTION SECONDARY SECONDARY METER BASE METER METER GROU	ER IS CONDUIT CONDUCTORS	ELEC. DNTR.		
	NOTES: 1. CONTACT AND COORDINA COMPANIES PRIOR TO S 2. ALL SERVICE INSTALLATION OF THE SERVING UTILIT POWER UTILITY CONTACT CRAIG SIMPSON SNOHOMISH COUNTY PUE PO BOX 1107 EVERETT, WA 98206-1107 PHONE: (425) 792 9270	TE ALL REQUIREMENTS A SUBMITTING BID. ON WORK SHALL BE IN ST IES.	AND RESPONSIBIL	LITIES WITH SER	VING UTILITY		SHEET INDEX E1 KEY PLAN, SYMBOL LIST, AND NOTES - ELECTRICAL E2 ENLARGED SITE PLANS - ELECTRICAL E3 ENLARGED SITE PLANS - ELECTRICAL E4 ELECTRIC SERVICE DETAILS
CAL PUMP STATION PLAN	INTERFACE ENGINEER HAS NOT RECEIVED IN SNOHOMISH COUNTY INDICATE OUR BEST E PRIOR TO ANY CONST OBTAIN IN WRITING TH	RING, INC. HAS CONT I WRITING THE FINAL PUBLIC UTILITY DIST STIMATION OF THEIF RUCTION CONTACT HEIR REQUIREMENTS	TACTED THE U REQUIREMEN RICT. THESE L R REQUIREMEN THE UTILITY A	ITILITIES BUT NTS FROM TH DRAWINGS NTS. ND	E		CALL BEFORE YOU DIG 1-800-424-5555
May 07, 2015 – 11:45am ROJ. NO. SURVEY NO. SURVEY NO. RAWN BY: UPI# UPI#	RFACE IEERING	REVIEWED AND AND AND AND AND AND AND AND AND AN	PPROVED BY:	SNOHON DEPAF PUBL	IISH CO RTMENT IC WOR	OF KS RR49206	SMITH ISLAND ESTUARY RESTORATION ELECTRICAL PLAN SHEET 44 0F 49 SHEET

GENERAL SHEET NOTES

A. 4" SCHEDULE 40 PVC CONDUIT FOR PRIMARY.

- 1. UG PRIMARY: 4" C.O. W/ PULL STRING FOR SNOHOMISH COUNTY PUD TO INSTALL PRIMARY CABLE.
- 2. 480Y/277V, 3P, 4W, PAD MOUNT TRANSFORMER/VAULT BY SNOHOMISH COUNTY PUD. PROVIDE 4'-8" X 4'-8" X 4'-0" VAULT WITH TRANSFORMER LID. UTILITY VAULT NO. 504-BL.
- 3. (1) 2" C, WITH 4# 3/0-CU XLP:USE-2 U.G. SERVICE CONDUCTORS.
- 4. ELECTRICAL SERVICE DISCONNECT SWITCH 200A, FUSE AT 100A. PROVIDE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM. PROVIDE (1) 2"C. WITH 4#2-CU, 1#8-CU, GR. TO PUMP STATION CONTROL CABINET.
- PUMP STATION CONTROL CABINET. 5.
- 6. SERVICE TO PUMP STATION WET VAULT

FILE: 0405.01-E1.DWG - E1 | EDIT: 6/9/2017 10:47 AM BY JOEYD | PLOT: 6/9/2017 10:47 AM BY JOEY DYSERT

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

ons	EX	KISTING WORK
NG	NE	EW WORK
LISH		TAIL NUMBER AND SHEET LOCATION
RGROUND	(1) KE	EYED NOTE
ns / Equipment	Raceways	
N-FUSED DISCONNECT SWITCH	CC	ONDUIT ROUTED BELOW FLOOR / GRADE

TRANSFORMER

	INCO DIVI	MING ELECTRICAL SI SION OF RESPONSIB	ERVICE ILITY		
	ELEC. CONTR PRIMARY CONDUIT X PRIMARY CONDUCTORS TRANSFORMER 1 TRANSFORMER VAULT X PRIMARY GROUNDING X BOLLARDS X	UTILITY CO. TRANSFOR CONNECTI SECONDAR SECONDAR METER BAS METER METER GRO	ELEC. CONTR. MER DNS Y CONDUIT X Y CONDUCTORS X E X DUNDING X		
	NOTES: 1. CONTACT AND COORDINATE ALL COMPANIES PRIOR TO SUBMIT 2. ALL SERVICE INSTALLATION WOR OF THE SERVING UTILITIES. POWER UTILITY CONTACT: CRAIG SIMPSON SNOHOMISH COUNTY PUD PO BOX 1107 EVERETT, WA 98206-1107 PHONE: (425) 783-8279	REQUIREMENTS AND RESPONSI TING BID. RK SHALL BE IN STRICT COMPLIA	BILITIES WITH SERVING UTIL	LITY NTS	SHEET INDEX 1 KEY PLAN, SYMBOL LIST, AND NOTES - ELECTRICAL 2 ENLARGED SITE PLANS - ELECTRICAL 3 ENLARGED SITE PLANS - ELECTRICAL 4 ELECTRIC SERVICE DETAILS
ICAL PUMP STATION PLAN 40'	INTERFACE ENGINEERING, I HAS NOT RECEIVED IN WRIT SNOHOMISH COUNTY PUBL INDICATE OUR BEST ESTIM PRIOR TO ANY CONSTRUCT OBTAIN IN WRITING THEIR R	INC. HAS CONTACTED THE TING THE FINAL REQUIREM IC UTILITY DISTRICT. THES ATION OF THEIR REQUIREM TION CONTACT THE UTILITY REQUIREMENTS.		CALL BEFORE YOU DIG 1-800-424-5555	
n 09, 2017 – 10:47am PROJECT 2014-0405.01 PROJ. NO. SURVEY NO. DRAWN BY: IN TE UPI# IN TEL 503.382.2262	RFACE LEERING RFACE	EVIEWED AND APPROVED BY: OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER	SNOHOMISH (DEPARTMEN PUBLIC W(COUNTY NT OF ORKS	SMITH ISLAND ESTUARY RESTORATION ELECTRICAL PLAN SHEET 44 OF 49
www.interfaceerigineering.com		DATE APPROVED:	PROJECT NC	J. <u>RR49200</u>	SHEETS

ELECT DF RF.	RICAL SE	RVICE _ITY								
	TRANSFORM CONNECTION SECONDARY SECONDARY METER BASE METER METER GROU	IER NS CONDUIT CONDUCTORS	ELEC. CONTR.							
MENTS AND RESPONSIBILITIES WITH SERVING UTILITY BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS										
					E1 E2 E3 E4	KEY PL ENLARO ENLARO ELECTR	AN, SYMBOL GED SITE PL GED SITE PL RIC SERVICE	LIST, AND NO ANS - ELECTF ANS - ELECTF DETAILS	DTES - ELECTRICA RICAL RICAL	۸L
S CONT FINAL Y DIST THEIR ITACT T MENTS	ACTED THE L REQUIREMEN RICT. THESE REQUIREME THE UTILITY A	JTILITIES BL NTS FROM T DRAWINGS NTS. ND	JT THE						CALL BEFOR	RE YOU DIG
AND AP	PROVED BY:	SNOHC DEP/)MISH (ARTMEN	COUNTY IT OF	E	S STUA	MITH RY R	ISLANE ESTOR	D ATION	REFERENCE SHEET NO. E1
B. CART SH COUNT	er, p.e. Ty engineer	PUE	BLIC WO	ORKS		ELE		AL PL	AN	SHEET 44 OF 40
TE APPR	OVED:	F	PROJECT NC	RR49206	•					SHEETS

GENERAL SHEET NOTES

A. 4" SCHEDULE 40 PVC CONDUIT FOR PRIMARY.

SHEET KEYNOTES $\langle \rangle$

- UG PRIMARY: 4" C.O. W/ PULL STRING FOR SNOHOMISH COUNTY PUD TO INSTALL 1. PRIMARY CABLE.
- 2. 480Y/277V, 3P, 4W, PAD MOUNT TRANSFORMER/VAULT BY SNOHOMISH COUNTY PUD. PROVIDE 4'-8" X 4'-8" X 4'-0" VAULT WITH TRANSFORMER LID. UTILITY VAULT NO. 504-BL.
- 3. (1) 2" C, WITH 4# 3/0-CU XLP:USE-2 U.G. SERVICE CONDUCTORS.
- 4. ELECTRICAL SERVICE DISCONNECT SWITCH 200A, FUSE AT 100A. PROVIDE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM. PROVIDE (1) 2"C. WITH 4#2-CU, 1#8-CU, GR. TO PUMP STATION CONTROL CABINET.
- PUMP STATION CONTROL CABINET. 5.
- 6. SERVICE TO PUMP STATION WET VAULT.

			PARTS LIST
ITEM	QTY	STOCK NUMBER	DESCRIPTION
1	1	A30H3008SSLP3PT	NEMA 4X STAINLESS STEEL JUNCTION BOX 30X30X8
2	1	A30P30	BACK PLATE
3	12		TERMINAL END STOP
4	10		TERMINAL END SECTION
5	27		TERMINALS
6	1		ALUMINUM BARRIER
7	1	DAH1001A	PANEL HEATER
8	1	SLT-AB1	ANEROID BELLOWS
9	1		ALUMINUM BARRIER
9	16"		1" X 1" SLOTTED WIREWAY

SIDE VIEW

Sheet E1a

		PARTS LIST		
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION	
1	2	8ft DISCONNECT PANEL - ANGLE -	ANGLE - 1-1/2 X 1-1/2 X	AI AI
2	1	8ft STD DISCONNECT PANEL - ANGLE	3/16 X 31-1/4 ΔNGLE - 1-1/4 X 1-1/4 X	
		- BOTTOM FRAME - BACK	1/8 X 30 5/8	
3	1	8ft DISCONNECT PANEL - ANGLE -	ANGLE - 1-1/4 X 1-1/4 X	
		TOP FRAME	1/8 X 30 5/8	
4	2	8ft DISCONNECT PANEL - DOOR	ANGLE - 1-1/4 X 1-1/4 X	
_	1	ANGLE - LONG	1/8 X 45	
S	L	TOP FRAME - SIDE - SHORT I H -	ANGLE - $1 - 1/4 \times 1 - 1/4 \times 1$	
		STRAIGHT		CRI
6	1	8ft STD DISCONNECT PANEL - ANGLE	ANGLE - 1-1/4 X 1-1/4 X	
		- TOP FRAME - SIDE - SHORT RH -	1/8 X 6-1/8	
<u> </u>		STRAIGHT		
7	2	8ft STD DISCONNECT PANEL - DOOR	ANGLE - 1.25 X 1.25 X 1/8	
8	1	ANGLE - SHORT X 31 8ft STD DISCONNECT PANEL - ANGLE	X 31 ANGLE = 1.25 X 1.25 X 1/8	
0	L	- BOTTOM FRAME - SIDE - SHORT RH	X 6 1/8	
		- STRAIGHT		=.
9	1	8ft STD DISCONNECT PANEL - ANGLE	ANGLE - 1.25 X 1.25 X 1/8	
		- BOTTOM FRAME - SIDE - SHORT LH	X 6 1/8	FY SCAI DNE INCI AL DRAW AL DRAW AL DRAW
10	1	- STRAIGHT		VERI VERI ORIGIN, ORIGIN, THIS SH THIS SH THIS SH VD VD VD VD VD VD VD
	L	COVER SHEET - FLUSH	COVER SCREEN - PERF PLATE 44 1/4 x 42 3/8	
11	1	8ft STD DISCONNECT PANEL - FRAME	FB - 1/4 X 1-1/4 X 3	
		LOCK TAB - STRAIGHT		
12	2	8ft STD DISCONNECT PANEL - TUBE	FB - 1/8 X 1 3/4 X 1 3/4 -	
12	1		TUBE CAPS	-
13		TAB	FB - 1/8 X 1 X 1	
14	1	8ft DISCONNECT PANEL - TOP FRAME	FB - 3/16 X 2 X 30 1/4	-
		FLATBAR		
15	2	50-FB0300S4	FLAT BAR - 304SS25 x	
			3in x 6in	
16	1	50-FB0125S4 - FLAT BAR - 304SS -	FLAT BAR - 304SS25in x	
17	2	1.25IN X .25IN X 25.125IN	1.25 In X 25-1/8 In	BAN E BAN E 196-96
	2		3in x 5in	
18	1	8ft STD DISCONNECT PANEL - DOOR	PERF PLATE - 30 1/2 X 44	541) (54)
		PANEL x 31	1/2	
19	1	8ft STD DISCONNECT PANEL - DOOR	TS - 1 X 1 X .065 X 30	
20	2	SUPPORT TUBE X 31	11/16 TS 2 Y 2 Y 190 Y 4F 7F"	
20	Z	TUBE - SIDE X 45 75	15 - 2 X 2 X .180 X 45./5	
21	1	8ft STD DISCONNECT PANEL - HINGE	MCMASTER CARR	
		PIN - 43in	1582A298	
22	1	8ft STD DISCONNECT PANEL - DOOR	DOOR HINGE PLATE	MC J. MC
22	- 1	HINGE PLATE - 43in - B		
23		BIT STD DISCONNECT PANEL - DOOR HINGE PLATE - 43in - A	DOOR HINGE PLATE	
				A H
		ALL 304 STAINLESS STEEL OR BETTER	र	
				IIS(
				30 D
	NO	FE: ALL DIMENSIONS AND ELEVATIONS	SHOWN	
	ARE	E NOMINAL DIMENSIONS. IT IS THE RE	SPONSIBILITY	SHEET
	OF	THE ON-SITE CONTRACTOR OR ROMTED		1 OF 1
		CURACY OF ANY CRITICAL DIMENSIONS	OR ELEVATIONS	
]	PRI	OR TO SETTING OR INSTALLING ANY EC	QUIPMENT.	

Sheet E1b

PHOENIX CONTACT GmbH & Co. KG http://www.phoenixcontact.de

Number of connections

Color

Technical data		
General		
Number of levels	1	

green-yellow

2

Commercial data	
EAN	4017918960452
Pack	50 Pcs.
Customs tariff	85369010
Weight/Piece	0.02956 KG
Catalog page information	Page 33 (CL-2007)

Product notes

http://

WEEE/RoHS-compliant since: 01/01/2003

www.download.phoenixcontact.com Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Extract from the online

Order No.: 3044173

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=3044173

Universal terminal block with screw connection, cross section: 0.5 - 10 mm², AWG: 20 - 6, width: 10.2 mm, color: Green-yellow

UT 10-PE

CONTINUOUS HINGE WITH 3-POINT LATCH, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13 IEC 60529, IP66 Meets NEMA Type 3RX requirements

APPLICATION

These enclosures feature Hoffman's exclusive POWERGLIDE Handle with 3-point latching, ideal for indoor or outdoor applications that require corrosion protection, convenient access, and padlocking security.

SPECIFICATIONS

- 14 gauge Type 304 or 316L stainless steel bodies and doors
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket Rolled lip around three sides of door
- Internal 3-point latch and Type 316L stainless steel padlocking POWERGLIDE Handle
- Remove door by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels
- Exterior hardware on Type 316L stainless steel enclosures matches enclosure material
- Bonding provision on door; grounding stud on body

FINISH

Door, sides, top and bottom have smooth #4 brushed finish. Handle is electropolished.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures Steel and Stainless Steel Window Kits H2OMIT Vent Drains, Type 4X H20MIT Thermoelectric Dehumidifier

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4SW3

Standard Product

		04-1-1	041	Conduction	04-1-1	Panel Size	Dete
Catalog Number	AxBxC in /mm	Stainless Steel Tyne	Steel Panel	Panel	Stainless Steel Panel	in /mm	Pocket
A24H2006SSLP3PT	24.00 x 20.00 x 6.00 610 x 508 x 152	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2006SS6LP3PT	24.00 x 20.00 x 6.00 610 x 508 x 152	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2008SSLP3PT	24.00 x 20.00 x 8.00 610 x 508 x 203	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2008SS6LP3PT	24.00 x 20.00 x 8.00 610 x 508 x 203	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2408SSLP3PT	24.00 x 24.00 x 8.00 610 x 610 x 203	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A24H2408SS6LP3PT	24.00 x 24.00 x 8.00 610 x 610 x 203	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A30H2408SSLP3PT	30.00 x 24.00 x 8.00 762 x 610 x 203	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H2408SS6LP3PT	30.00 x 24.00 x 8.00 762 x 610 x 203	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H3008SSLP3PT	30.00 x 30.00 x 8.00 762 x 762 x 203	304	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	Large
A30H3008SS6LP3PT	30.00 x 30.00 x 8.00 762 x 762 x 203	316L	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	Large
A36H2408SSLP3PT	36.00 x 24.00 x 8.00 914 x 610 x 203	304	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	Large
A36H2408SS6LP3PT	36.00 x 24.00 x 8.00 914 x 610 x 203	316L	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	Large
A36H3008SSLP3PT	36.00 x 30.00 x 8.00 914 x 762 x 203	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A36H3008SS6LP3PT	36.00 x 30.00 x 8.00 914 x 762 x 203	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A48H3608SSLP3PT	48.00 x 36.00 x 8.00 1219 x 914 x 203	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3608SS6LP3PT	48.00 x 36.00 x 8.00 1219 x 914 x 203	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A24H2010SSLP3PT	24.00 x 20.00 x 10.00 610 x 508 x 254	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small

Sheet E1d

MAN

						Panel Size	
		Stainless	Steel	Conductive	Stainless	DxE	Data
Catalog Number	AxBxC in./mm	Steel Type	Panel	Panel	Steel Panel	in./mm	Pocket
A24H2010SS6LP3PT	24.00 x 20.00 x 10.00 610 x 508 x 254	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A36H3010SSLP3PT	36.00 x 30.00 x 10.00 914 x 762 x 254	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A36H3010SS6LP3PT	36.00 x 30.00 x 10.00 914 x 762 x 254	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A42H3010SSLP3PT	42.00 x 30.00 x 10.00 1067 x 762 x 254	304	A42P30	A42P30G	A42P30SS6	39.00 x 27.00 991 x 686	Large
A48H3610SSLP3PT	48.00 x 36.00 x 10.00 1219 x 914 x 254	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3610SS6LP3PT	48.00 x 36.00 x 10.00 1219 x 914 x 254	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A24H2412SSLP3PT	24.00 x 24.00 x 12.00 610 x 610 x 305	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A24H2412SS6LP3PT	24.00 x 24.00 x 12.00 610 x 610 x 305	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A30H2412SSLP3PT	30.00 x 24.00 x 12.00 760 x 610 x 305	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H2412SS6LP3PT	30.00 x 24.00 x 12.00 762 x 610 x 305	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A36H3012SSLP3PT	36.00 x 30.00 x 12.00 914 x 762 x 305	304	A36P30	A36P30G	A36P30SS6	33.00 X 27.00 838 x 686	Large
A36H3012SS6LP3PT	36.00 x 30.00 x 12.00 914 x 762 x 305	316L	A36P30	A36P30G	A36P30SS6	33.00 X 27.00 838 x 686	Large
A36H3612SSLP3PT	36.00 x 36.00 x 12.00 914 x 914 x 305	304	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	Large
A36H3612SS6LP3PT	36.00 x 36.00 x 12.00 914 x 914 x 305	316L	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	Large
A42H3612SSLP3PT	42.00 x 36.00 x 12.00 1067 x 914 x 305	304	A42P36	A42P36G	A42P36SS6	39.00 x 33.00 991 x 838	Large
A48H3612SSLP3PT	48.00 x 36.00 x 12.00 1219 x 914 x 305	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3612SS6LP3PT	48.00 x 36.00 x 12.00 1219 x 914 x 305	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A60H3612SSLP3PT	60.00 x 36.00 x 12.00 1524 x 914 x 305	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A60H3612SS6LP3PT	60.00 x 36.00 x 12.00 1524 x 914 x 305	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A48H3616SSLP3PT	48.00 x 36.00 x 16.00 1219 x 914 x 406	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3616SS6LP3PT	48.00 x 36.00 x 16.00 1219 x 914 x 406	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A60H3616SSLP3PT	60.00 x 36.00 x 16.00 1524 x 914 x 406	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A60H3616SS6LP3PT	60.00 x 36.00 x 16.00 1524 x 914 x 406	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

Sheet E1e

PrSense[®] SLT Series Submersible Level Transmitter Accessories

Submersible Level Transmitter Vent Filter (Desiccant)

Vent filters utilize indicating desiccant to prevent moisture from entering the vent tube and damaging transmitters with vented gage reference pressure. The desiccant will turn from blue to pink when exposed to moisture indicating the need for maintenance. This vent filter design prevents moisture from entering the vent tube for at least one year without maintenance.

	Submersible Level Transmitter Vent Filter (Desiccant)						
Part No.	Description	Housing Material	Tubing Size	Connector Material	Price	Weight (lbs)	
SLT-VF1	ProSense indicating desiccant vent filter, for ProSense submersible hydrostatic level transmitters	PUR (polyethylene) tube with PP (polypropylene) fittings	13in (330mm)	PEEK (Polyetheretherketone)	\$22.00	0.5	

Dimensions

inches [mm]

Submersible Level Transmitter Aneroid Bellows

The aneroid bellows is a maintenance-free alternative to desiccant filters for moisture protection on vented gage transmitters. Made of flexible neoprene material attached to a polycarbonate mounting bracket, the bellows fluctuates with changes in atmospheric pressure, maintaining a constant barometric reference. Note that the use of the bellows results in a closed reference pressure system subject to zero shift errors induced by changing temperatures of up to 0.003 psi/°C.

1.60 [40.6]

Submersible Level Transmitter Aneroid Bellows						
Part No.	Description	Housing Material	Tubing Size	Connector Material	Price	Weight (lbs)
SLT-AB1	ProSense aneroid bellows, for ProSense submersible hydrostatic level transmitters	Neoprene bellows attached to a PC (polycarbonate) bracket	12in (305mm)	PEEK (Polyetheretherketone)	\$33.00	0.8
Dimension inches [mm]	ns 2x ø0.26 [ø6.6]	1.50 [38.1] 3.25 [82.6	0.1! [3.8 6] 0.75 [19.1]	0.38		

 \land

Always install a vent filter (desiccant) or aneroid bellows immediately after transmitter installation. Failure to use one or the other could result in premature failure of the transmitter, which would not be covered by warranty.

[] 3.00

Sheet E1f

See our website www.AutomationDirect.com for complete Engineering drawings.

ELECTRIC HEATERS (FOR 100-800 W HEATING APPLICATIONS)

Example:

Which electric heater would most-efficiently maintain a 60 F temperature in an uninsulated 24 x 24 x 10 enclosure that is exposed to a temperature not less than 30 F?

Step 1:

Calculate the total enclosure surface area.

- Area (ft.²) = 2[[AxB]+[AxC]+BxC]] ÷ 144 where "A", "B" and "C" are the dimensions of the enclosure.
- In our example

 $- \text{Area} = 2[(24x24)+(24x10)+(24x10)] \div 144 = 14.7 \text{ ft.}^2$

Step 2:

Using the graphs, draw a vertical line through the enclosure surface area and determine the temperature rise given by each heater. For enclosures exposed to windy conditions, heaters should be oversized by approximately 50 percent.

Step 3:

Select the electric heater that achieves the desired temperature rise. In our example, the desired temperature rise is 30 F (60 F - 30 F). The 200 W heater should be selected since its temperature rise (35 F) exceeds the requirement.

HEATER SELECTION GRAPH (INSULATED ENCLOSURES)

SEMICONDUCTOR CONTROL PANEL HEATERS

Catalog No.	Watts	
DAH101	10	
DAH301	30	
DAH601	60	

ELECTRIC HEATERS

Catalog No.	Watts	
DAH1001A	100	
DAH1002A	100	
DAH2001A	200	
DAH2002A	200	
DAH4001B	400	
DAH4002B	400	
DAH8001B	800	
DAH8002B	800	

Feed-through terminal block - UT 6 - 3044131

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm² - 10 mm², AWG: 24 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- ☑ Tested for railway applications
- M As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts
- The multi-conductor connection offers maximum flexibility and wiring density
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	14.8 GRM
Custom tariff number	85369010
Country of origin	Germany

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	РА
Inflammability class according to UL 94	V0
Area of application	Railway industry
	Mechanical engineering

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FILE: E2.DWG - E2 | EDIT: 5/4/2015 10:38 AM BY MICHAELA | PLOT: 5/7/2015 1:23 PM BY MICHAEL ADAMS



FILE: E3.DWG - E3 | EDIT: 5/4/2015 10:37 AM BY MICHAELA | PLOT: 5/7/2015 1:23 PM BY MICHAEL ADAMS













GENERAL SHEET NOTES

A. 4" SCHEDULE 40 PVC CONDUIT FOR PRIMARY.

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

General

 $\langle 1 \rangle$

KEYED NOTE

Raceways

____ ___ CONDUIT ROUTED BELOW FLOOR / GRADE



PULLBOX FOR SNOHOMISH COUNTY PUD PRIMARY 200A CABLE/CONDUIT, INSTALLED EVERY 1200' PER PUD REQUIREMENTS.







See revised sheet BP02 (next sheet) showing revised control building and bollard locations.





6/8/17 1

DATE NO.

S.I. 03 - CONTROL BUILDING LOCATION

REVISION

CRC DAS

ΒY

FIELD BOOK(S):

un 09, 2017 – 5:34pm				
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DRAWN BY:		SIGNATURES AND SEALS	OWEN B. CARTER, P.E. SNOHOMISH COUNTY ENGINEER	PUBLIC
UPI# 12-0171-1	Hanmi Global Partner		DATE APPROVED:	PROJI

	CALL BEFORE 1-800-424-	70U DIG 55555
ISH COUNTY TMENT OF	SMITH ISLAND ESTUARY RESTORATION	REFERENCE SHEET NO. BP01
C WORKS	CONTROL BUILDING GRADING PLAN	SHEET 48 OF 49 SHEETS

XREF LIST Ltscale: 1 ------Resolved 3784—PRJL 3784—River TTLBLK VICINITY_MAP 3784-BASE Unresolved GSLSEAL





				Last Saved By: ahmedk		
				REGION STATE FED. A	١D	
				DESIGNED BY: GSL, DAS		
DATE	NO.	REVISION	BY	FIELD BOOK(S):		

A PORTION OF SECTIONS 9,10,15,&16, TOWNSHIP 29 NORTH, RANGE 05 EAST, W.M.





<u>NOTES</u>

- LOCATION OF SIGNS SHOWN ARE APPROXIMATE AND SHALL BE FIELD LOCATED AND/OR AS DIRECTED BY THE ENGINEER. PLACEMENT OF SIGNS SHALL NOT INTERFERE WITH DRIVEWAYS, FIRE HYDRANTS AND EXISTING SIGNS.
- 2. SEE SPECIFICATIONS SECTION 1-10 FOR ADDITIONAL REQUIREMENTS.
- 3. PROVIDE FLASHING WARNING LIGHT PER SECTION 1-10.3(3) OF WSDOT STD. SPECIFICATIONS.



