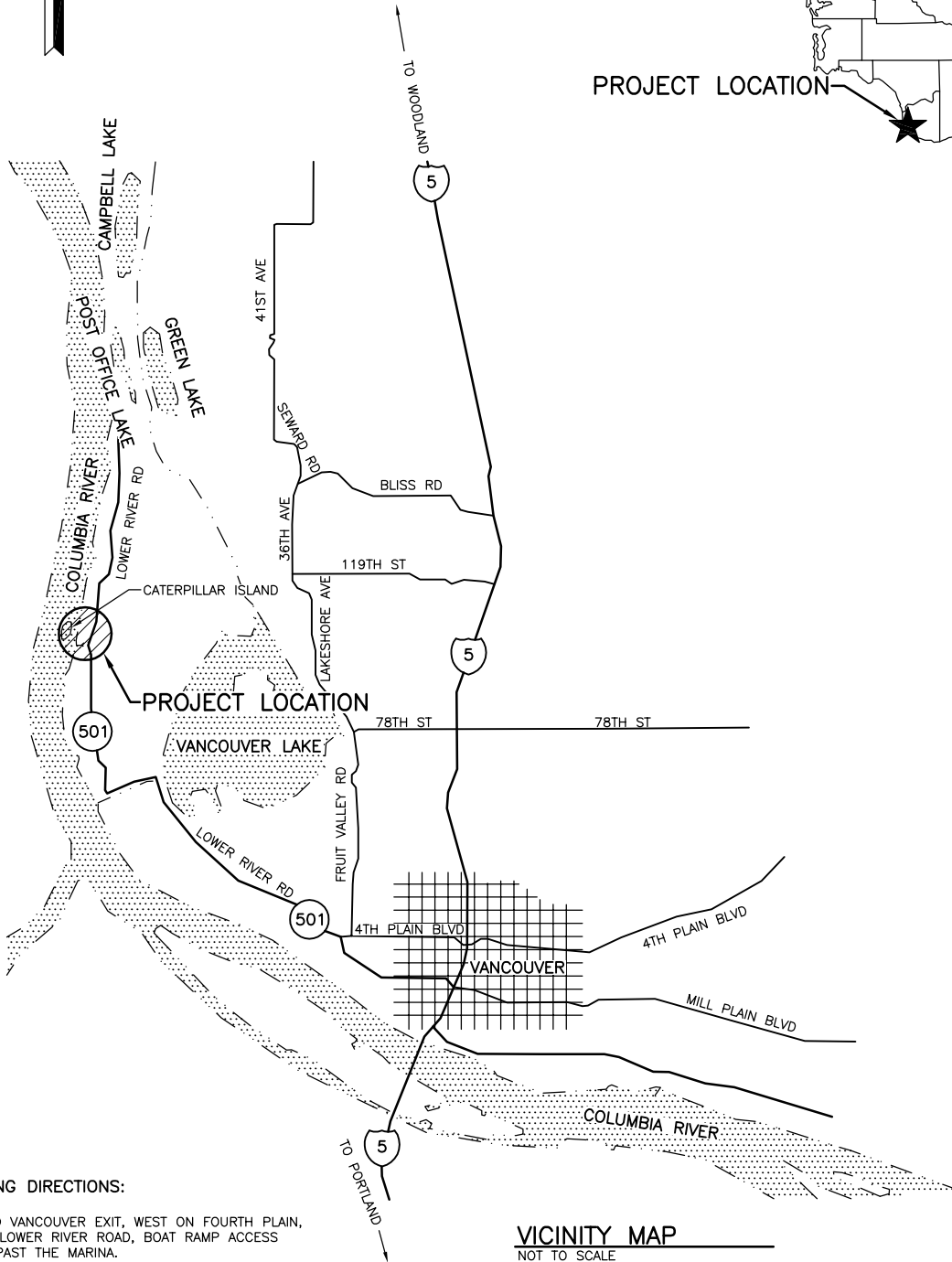


PROJECT LOCATION

STATE MAP  
NOT TO SCALE



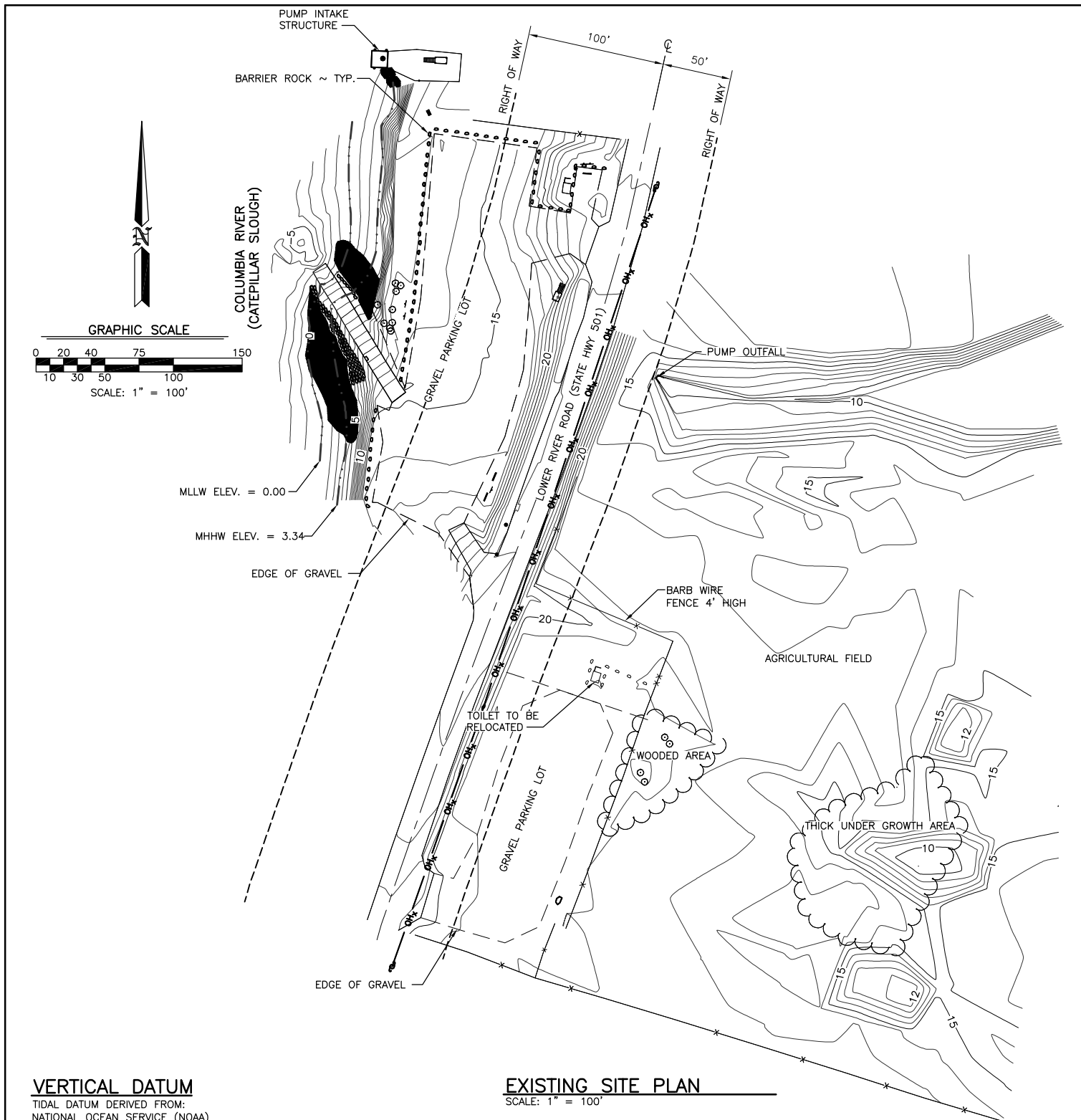
VICINITY MAP  
NOT TO SCALE

45°42'15.30"N  
122°45'30.09"W

**DRIVING DIRECTIONS:**

I-5 TO VANCOUVER EXIT, WEST ON FOURTH PLAIN,  
N ON LOWER RIVER ROAD, BOAT RAMP ACCESS  
JUST PAST THE MARINA.

PURPOSE: REPLACE EXISTING RAMP AND ADD PARKING	WASHINGTON DEPT. of FISH & WILDLIFE 600 CAPITOL WAY N. OLYMPIA, WA 98501-1091	PROPOSED: ACCESS SITE RENOVATION
DATUM: <u>MLLW</u> ADJACENT PROPERTY OWNER: 1. _____ 2. _____ ENG. PROJECT NO. <u>CK:A22:12-1</u>	REFERENCE NO. _____ SITE: <b>LANGSDORF LANDING ACCESS</b> ADDRESS: <b>LOWER RIVER ROAD VANCOUVER, WA</b>	IN: <u>COLUMBIA RIVER</u> NEAR: <u>VANCOUVER</u> COUNTY OF: <u>CLARK</u> STATE: <u>WA</u> PORTION OF: <u>SECT. 36, T 3 N, R 1 W</u> DATE: <u>9/11/2012</u> SHEET <u>1</u> OF <u>12</u>



**VERTICAL DATUM**

TIDAL DATUM DERIVED FROM:  
 NATIONAL OCEAN SERVICE (NOAA)  
 STATION ID: 9440083  
 NAME: VANCOUVER, WA

	MHHW	CRD
MEAN HIGHER HIGH WATER (MHHW);	3.34 FT.	5.00 FT.
MEAN HIGH WATER (MHW);	2.80 FT.	
MEAN TIDE LEVEL (MTL);	1.51 FT.	
MEAN SEA LEVEL (MSL);	1.41 FT.	3.07 FT.
MEAN LOW WATER (MLW);	0.23 FT.	
MEAN LOWER-LOW WATER (MLLW);	0.00 FT.	1.66 FT.
COLUMBIA RIVER DATUM (CRD)	-1.66 FT.	0.00 FT.
NGVD - 1929	-3.48 FT.	-1.81 FT.
NAVD - 1988	-6.94 FT.	-5.28 FT.

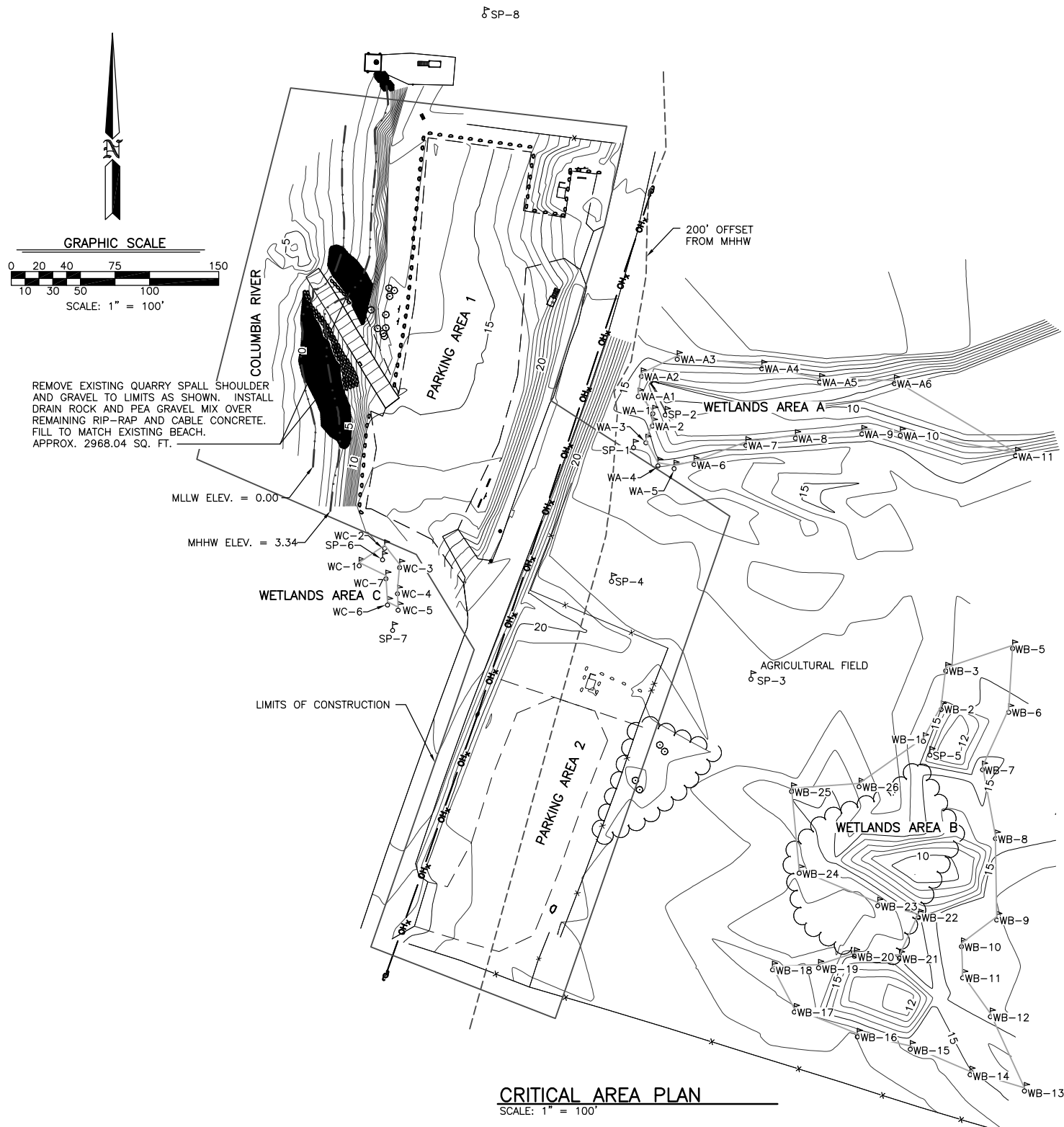
**BASIS OF BEARINGS**

COMPASS BEARING WITH 18° EAST DECLINATION

**EXISTING SITE PLAN**

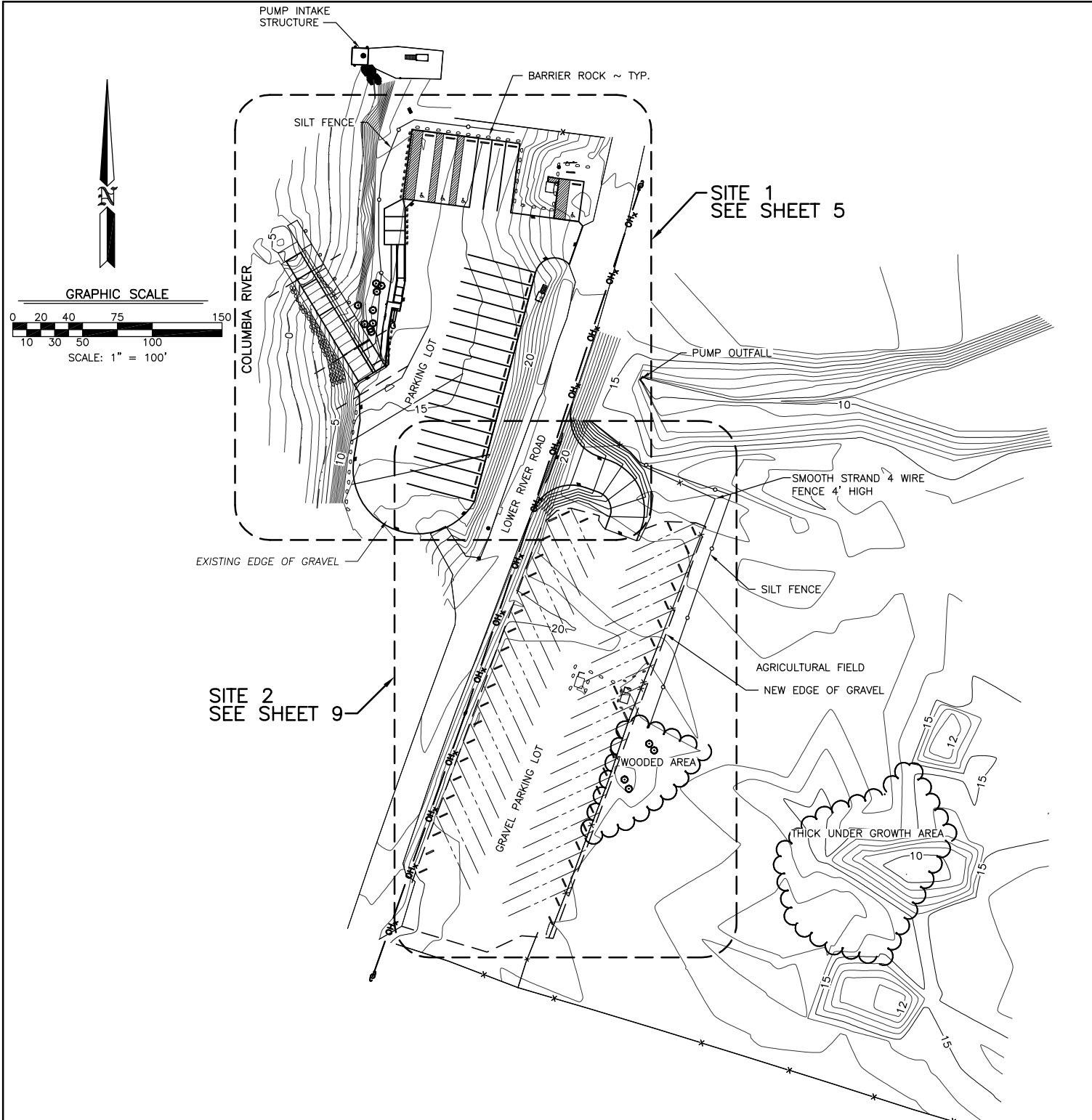
SCALE: 1" = 100'

REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 SHEET 2 OF 12



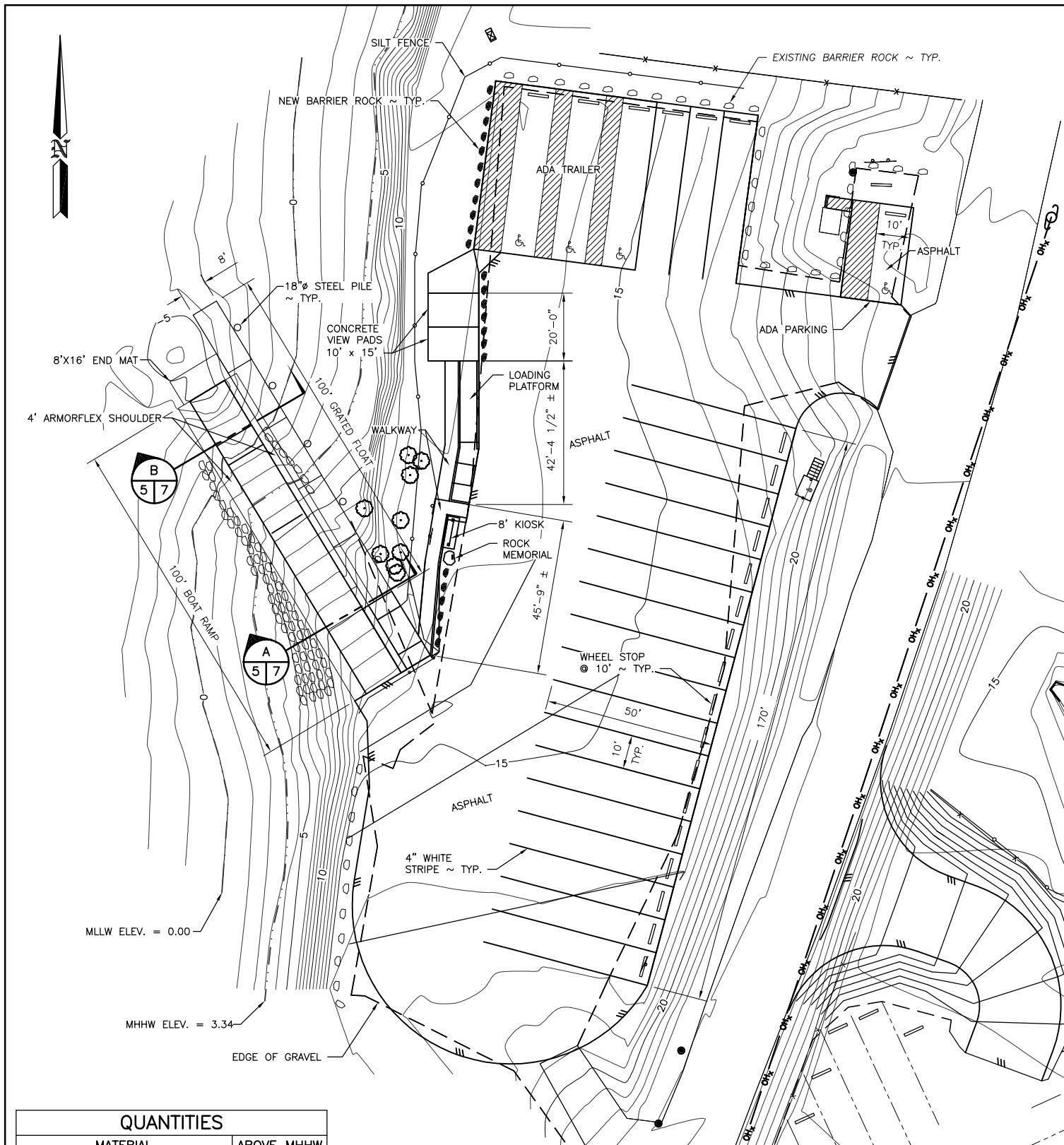
WETLANDS DATA		
WETLAND AREA	SQ. FT.	ACRES
A	589,188 SQ. FT.	13.5 ACRES
B	27,812 SQ. FT.	0.6 ACRES
C	525 SQ. FT.	0.01 ACRES

REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION CRITICAL AREA PLAN</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 SHEET 3 OF 12



**PROPOSED SITE PLAN**  
SCALE: 1" = 100'

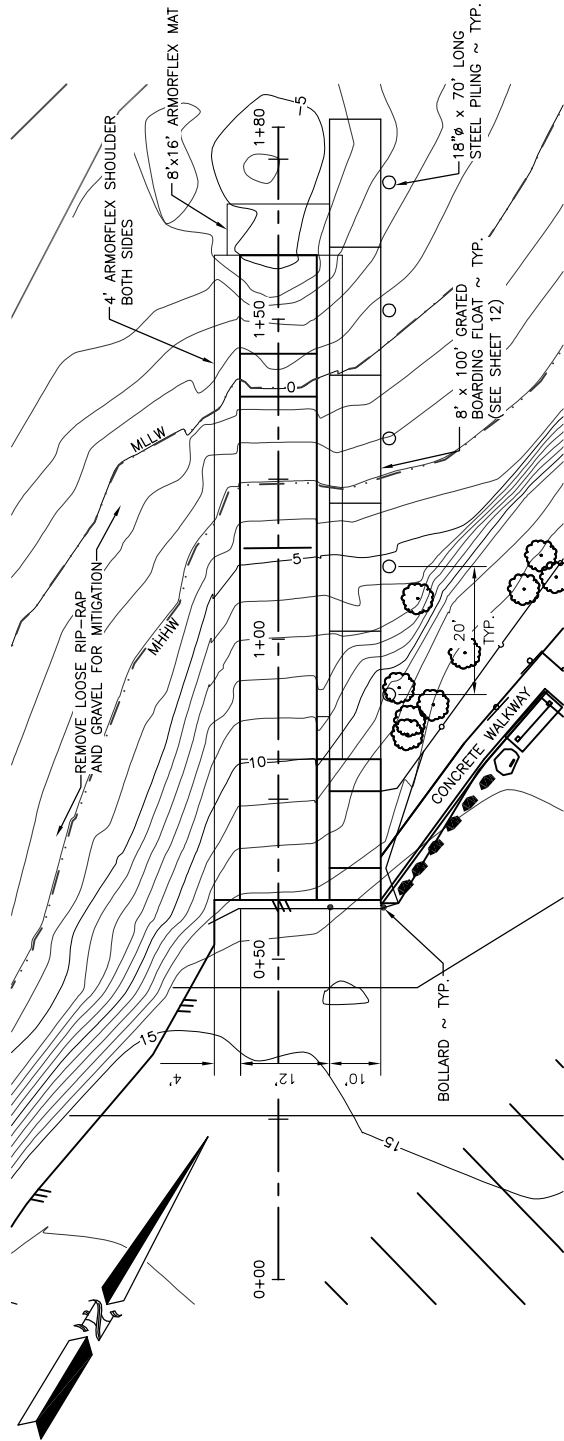
REFERENCE NO.	_____
APPLICANT:	WASHINGTON DEPT. of FISH & WILDLIFE
	<b>LANGSDORF LANDING ACCESS</b>
	ACCESS RENOVATION
	PROPOSED SITE PLAN
AT:	VANCOUVER, WASHINGTON
DATE:	9/11/2012 SHEET 4 OF 12



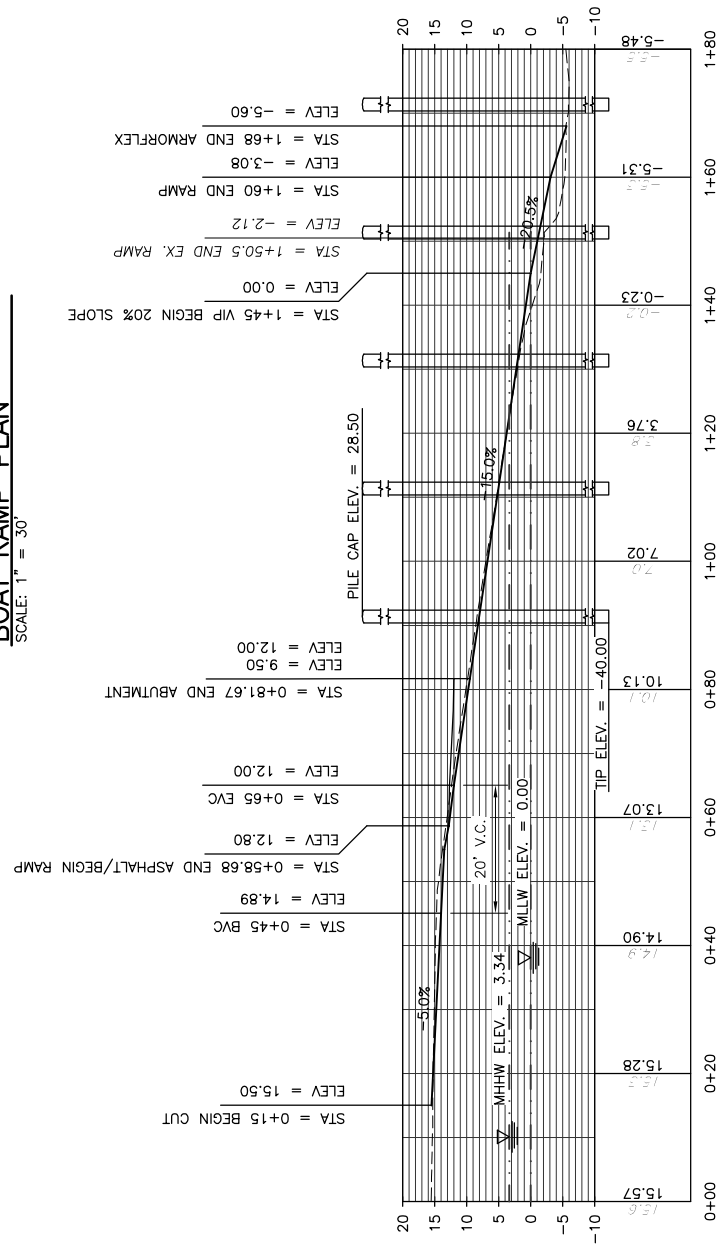
QUANTITIES		
MATERIAL	ABOVE MHHW	
SITE 1	SF	CY
EXISTING GRAVEL PARKING AREA	26,043	-
NEW CONCRETE ABUTMENT	220	24.44
NEW CONCRETE LOADING PLATFORM	268	29.78
NEW SIDEWALKS AND VIEW PAD	810	15.00
NEW ASPHALT OVER EXISTING GRAVEL	25,980	160.37
TOTAL IMPERVIOUS	27,278	-
CHANGE IN IMPERVIOUS	1235	-

**SITE 1 PLAN**  
 SCALE: 1" = 40'  
 ASPHALT PAVE EXISTING  
 PARKING AREA 25,780 SQ. FT.

REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION SITE 1 PLAN</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 SHEET 5 OF 12



**BOAT RAMP PLAN**  
SCALE: 1" = 30'



**BOAT RAMP PROFILE**  
SCALE: 1" = 30'

QUANTITIES					
MATERIAL	BELOW MHHW		ABOVE MHHW		TOTAL
	SF	CY	SF	CY	
<b>EXISTING RAMP</b>					
EXISTING RAMP PLANKS	393	4.80	954	11.66	-
EXISTING GRAVEL BEDDING (2") (UNDER PLANKS)	393	2.43	954	5.89	-
EXISTING QUARRY SPALL SHOULDER AND GRAVEL	1468	13.59	1500	13.89	-
EXISTING PROP-WASH BERM	-	10.00	-	-	-
TOTAL DEMOLITION (CUT)	-	20.82	-	31.44	52.26
<b>NEW RAMP</b>					
NEW RAMP PLANKS	513	9.50	790	14.63	-
ARMORFLEX	460	8.52	391	7.24	-
NEW WASHED GRAVEL BEDDING (UNDER RAMP)	-	5.53	-	0.00	-
PROP-WASH HOLE FILL	-	15.84	-	-	-
TOTAL NEW (FILL)	-	39.39	-	21.87	61.26

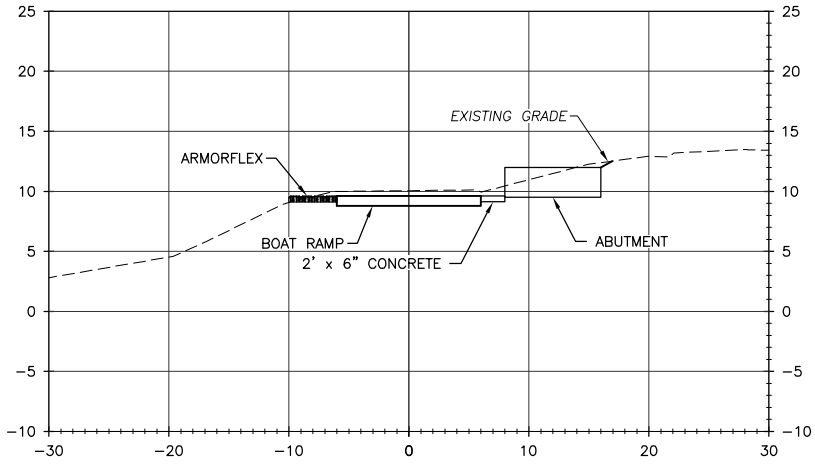
REFERENCE NO. \_\_\_\_\_

APPLICANT:  
WASHINGTON DEPT. of FISH & WILDLIFE

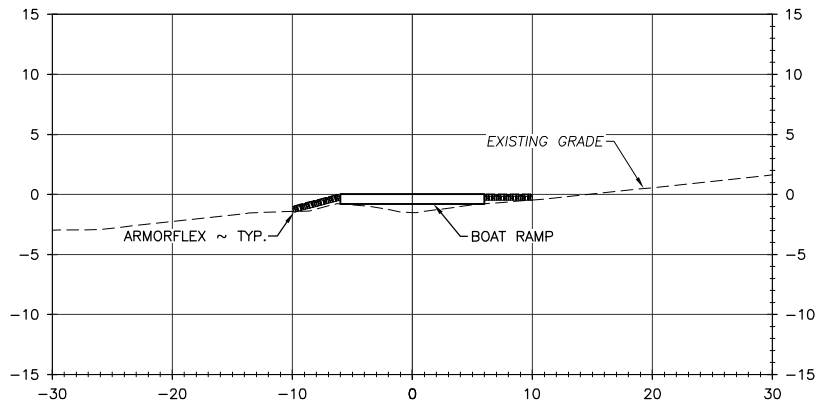
**LANGSDORF LANDING ACCESS  
ACCESS RENOVATION  
BOAT RAMP PLAN & PROFILE**

AT: VANCOUVER, WASHINGTON

DATE: 9/11/2012 SHEET 6 OF 12



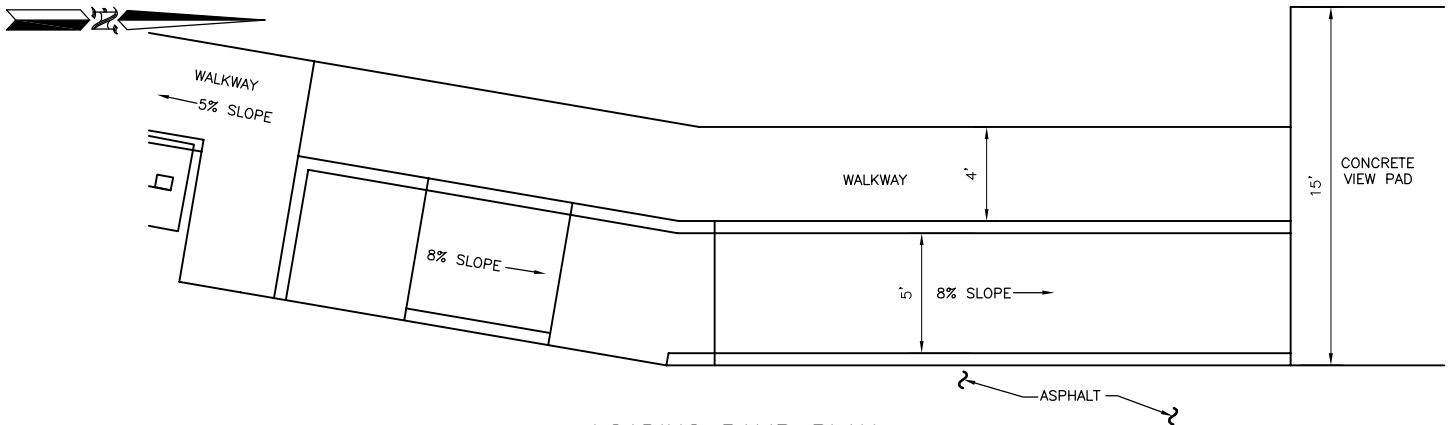
**SECTION**  
SCALE: 1" = 16'



**SECTION**  
SCALE: 1" = 16'

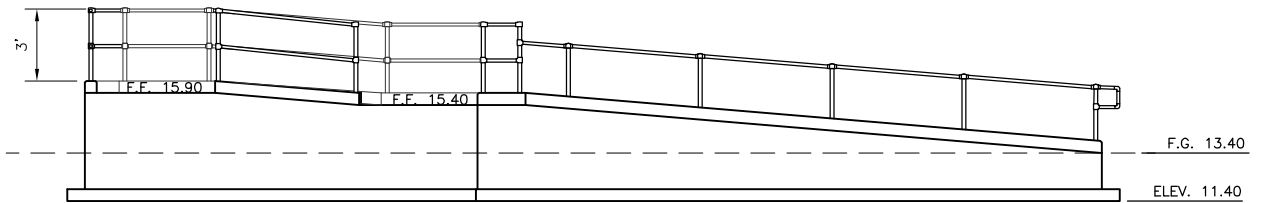


REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION BOAT RAMP SECTIONS</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 _____ SHEET 7 OF 12

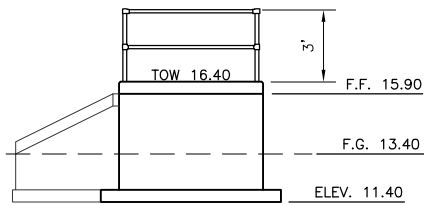


**LOADING RAMP PLAN**

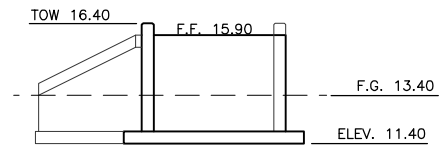
SCALE: 1" = 8'



**FRONT ELEVATION**



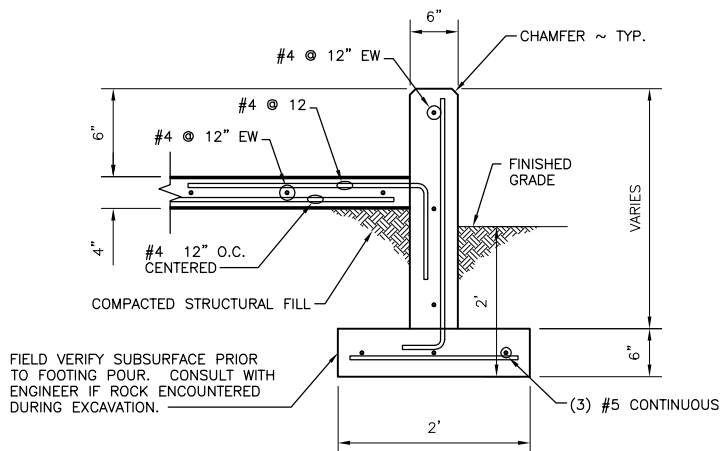
**SIDE ELEVATION**



**SECTION**

**LOADING RAMP ELEVATIONS**

SCALE: 1" = 8'

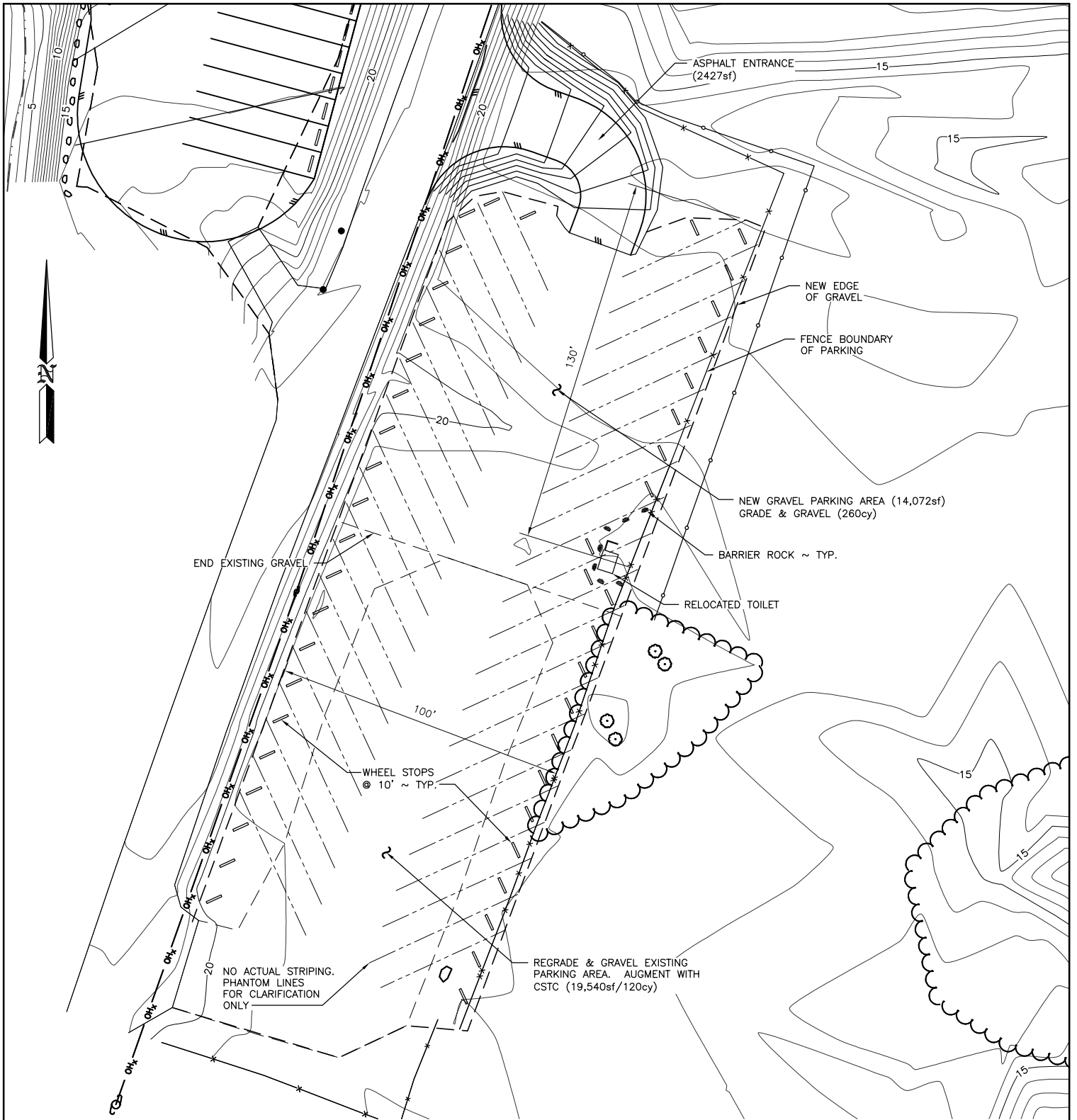


**TYPICAL WALL SECTION**

NOT TO SCALE

REFERENCE NO.	_____
APPLICANT:	WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION</b>	
LOADING PLATFORM PLAN & ELEVATIONS	
AT:	VANCOUVER _____, WASHINGTON
DATE:	9/11/2012 _____ SHEET 8 OF 12

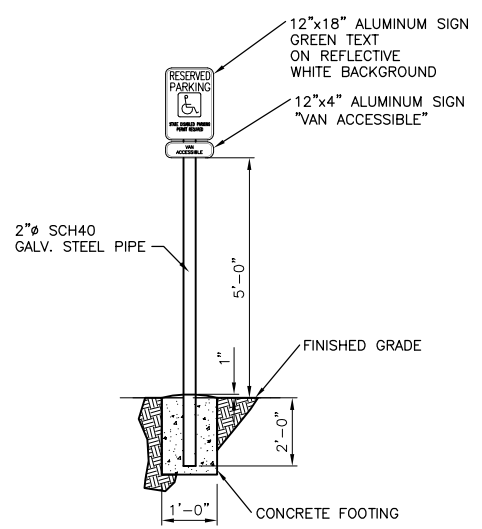
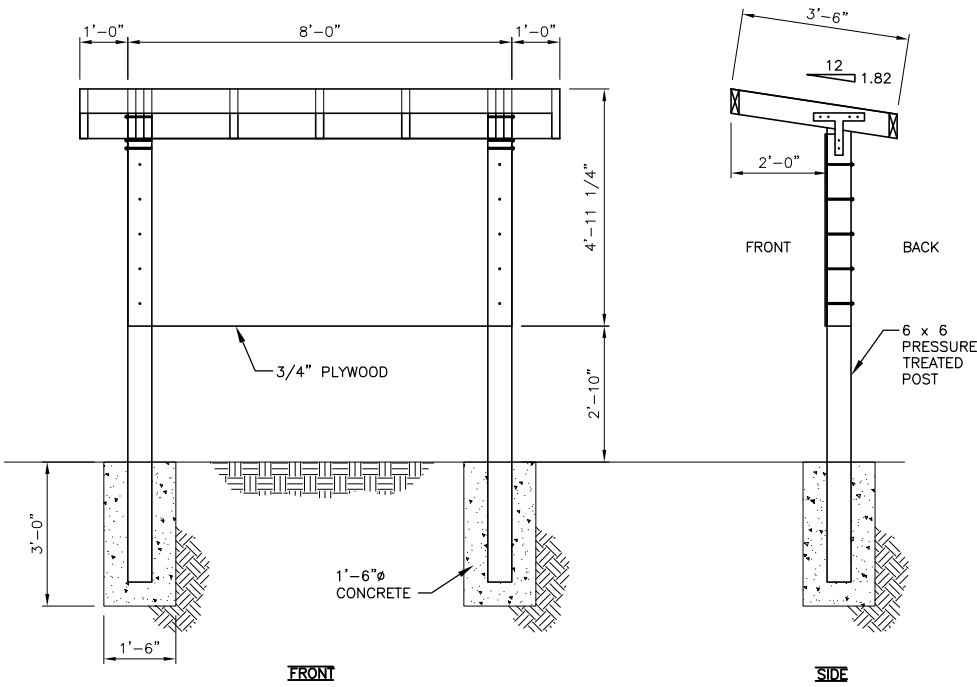




**SITE 2 PLAN**  
SCALE: 1" = 50'

QUANTITIES		
MATERIAL	ABOVE MHHW	
SITE 2	SF	CY
EXISTING PARKING AREA	19,540	120
NEW PARKING AREA GRAVEL	14,072	260
NEW ASPHALT ENTRANCE	2427	14.98
TOTAL IMPERVIOUS	36,039	-
CHANGE IN IMPERVIOUS	16,499	-
TOTAL CUT	-	280

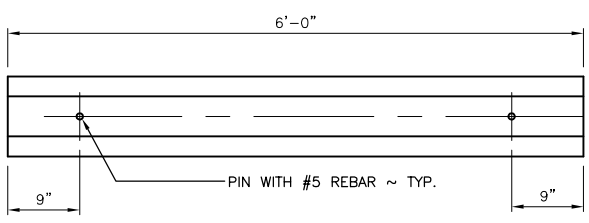
REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION SITE PLAN 2</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 SHEET 9 OF 12



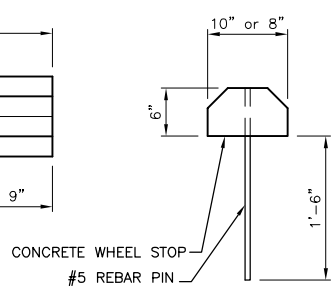
**ACCESSIBLE PARKING SIGN**  
NOT TO SCALE

**INFORMATION KIOSK #BBK-2**  
NOT TO SCALE

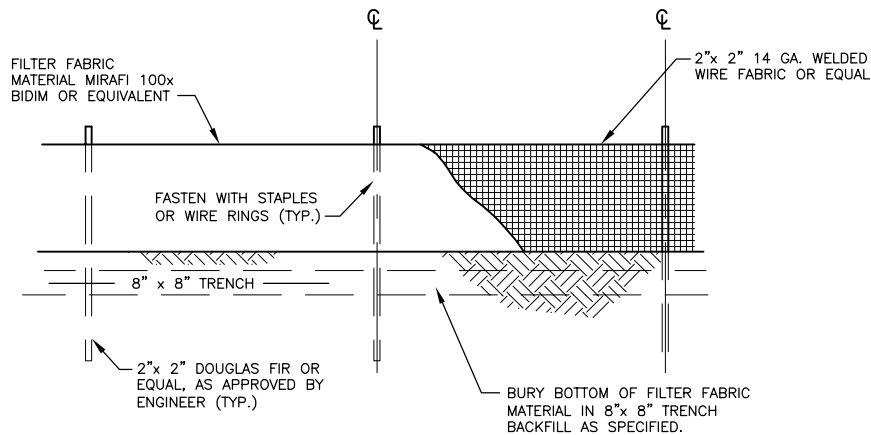
- NOTE:**
1. POST TO BE PLUMB AND LEVEL ALL DIRECTIONS
  2. ASSEMBLY OF POSTS, PLYWOOD, ROOF AND INSTALLATION BY CONTRACTOR.
  3. KIOSK PACKAGE BBK-2 TO BE PROVIDED BY OTHERS



**WHEEL STOP**  
NOT TO SCALE



REFERENCE NO.	_____
APPLICANT:	WASHINGTON DEPT. of FISH & WILDLIFE
	LANGSDORF LANDING ACCESS ACCESS RENOVATION KIOSK & DETAILS
AT:	VANCOUVER, WASHINGTON
DATE:	9/11/2012 SHEET 10 OF 12



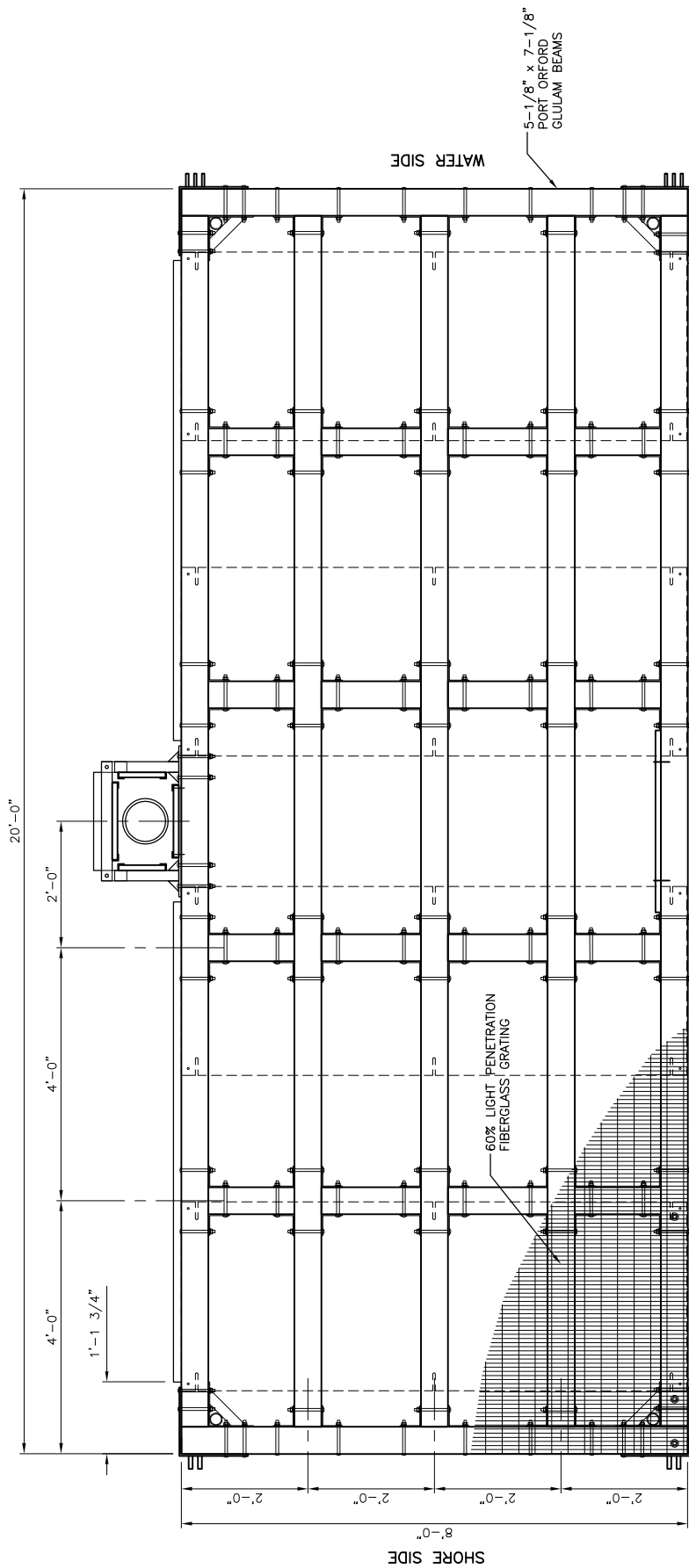
**FILTER FABRIC FENCE**

SCALE: NONE

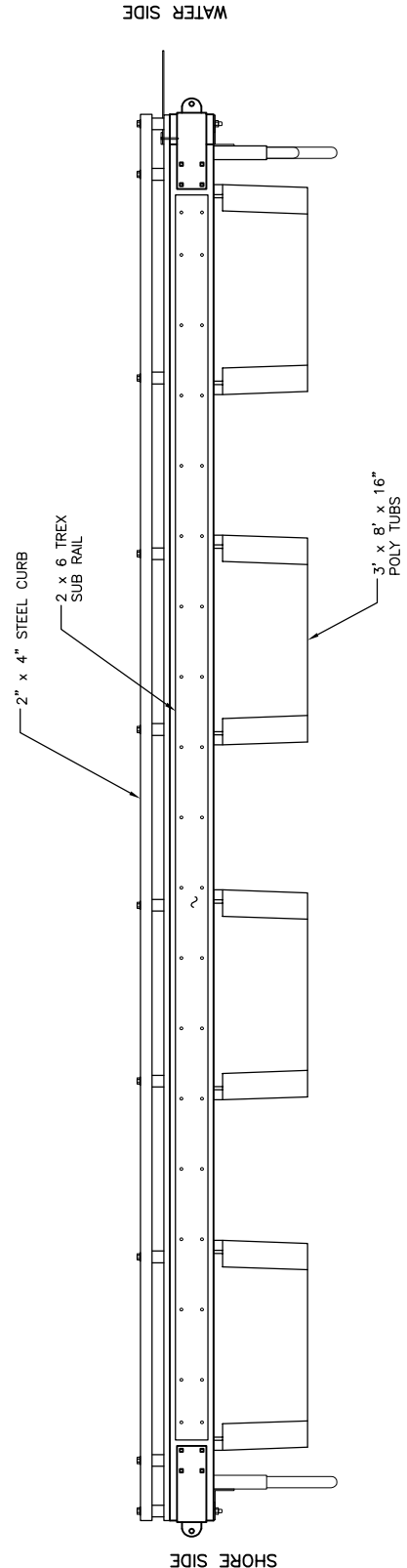
**FILTER FABRIC NOTES:**

1. FILTER FABRIC SHALL BE PURCHASED CONTINUOUS ROLL CUT TO LENGTH OF BARRIER AS NEEDED. IF JOINTS ARE NECESSARY FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS WITH A MINIMUM OF (6) INCH OVERLAP. BOTH ENDS SHALL BE SECURED AS REQUIRED.
2. FILTER FABRIC SHALL BE INSTALLED TO FOLLOW CONTOURS. FENCE POSTS SHALL BE SPACED A MAXIMUM OF EIGHT (8) FEET APART UNLESS OTHERWISE SHOWN HEREIN. ALL POSTS SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 30 INCHES.
3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT (8) INCHES WIDE BY EIGHT (8) INCHES DEEP UP SLOPE AND ADJACENT TO THE POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS UTILIZED, A WIRE SINGLE SPACE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE (OR UPSTREAM) SIDE OF THE POSTS USING ONE (1) INCH MINIMUM LENGTH WIRE STAPLES, TIE WIRE OR APPROVED HOG RINGS. ALL WIRE SUPPORT SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR (4) INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE ORIGINAL GRADE.
5. ALL FILTER FABRIC SHALL BE STAPLED OR WIRED TO SUPPORT FENCING AND A MINIMUM OF 20 INCHES OF FABRIC SHALL BE EXTENDED INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED OR FASTENED TO EXISTING TREES OF STRUCTURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. IF HIGH STRENGTH FILTER FABRIC AND CLOSER SPACING ARE USED, THE WIRE SUPPORT FENCING MAY BE ELIMINATED. HIGH STRENGTH FABRIC SHALL BE STAPLED OR WIRED DIRECTLY TO POSTS AS REQUIRED BY THE ENGINEER.
7. CUTOFF TRENCH SHALL BE BACKFILLED WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL OR OTHER SIMILAR SOURCE AS APPROVED BY THE ENGINEER.
8. FILTER FENCING SHALL BE INSTALLED WHERE SHOWN ON THE PLAN, OR AS MARKED IN THE FIELD BY THE ENGINEER, PRIOR TO COMMENCEMENT OF WORK. ALL FENCING SHALL BE INSPECTED DAILY DURING CONSTRUCTION AND AFTER EACH SIGNIFICANT RAINFALL EVENT UNTIL SITE HAS BEEN PERMANENTLY STABILIZED. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. REMOVAL OF TRAPPED SEDIMENT SHALL BE PERFORMED WHEN AMOUNTS REACH APPROXIMATELY 1/3 HEIGHT OF THE FENCE.
10. FILTER FENCING SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN REVEGETATED TO ORIGINAL CONDITION OR DIRECTED BY THE ENGINEER.

REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION SILT FENCE DETAIL</b>
AT: VANCOUVER _____, WASHINGTON
DATE: 9/11/2012 _____ SHEET 11 OF 12



**PLAN**  
SCALE: 3/8" = 1'-0"



**TYPICAL SIDE ELEVATION**  
SCALE: 3/8" = 1'-0"

REFERENCE NO.	_____
APPLICANT:	WASHINGTON DEPT. of FISH & WILDLIFE
<b>LANGSDORF LANDING ACCESS ACCESS RENOVATION</b>	
<b>8' x 20' FLOAT PLAN &amp; ELEVATION</b>	
AT:	VANCOUVER, WASHINGTON
DATE:	9/11/2012 SHEET 12 OF 12