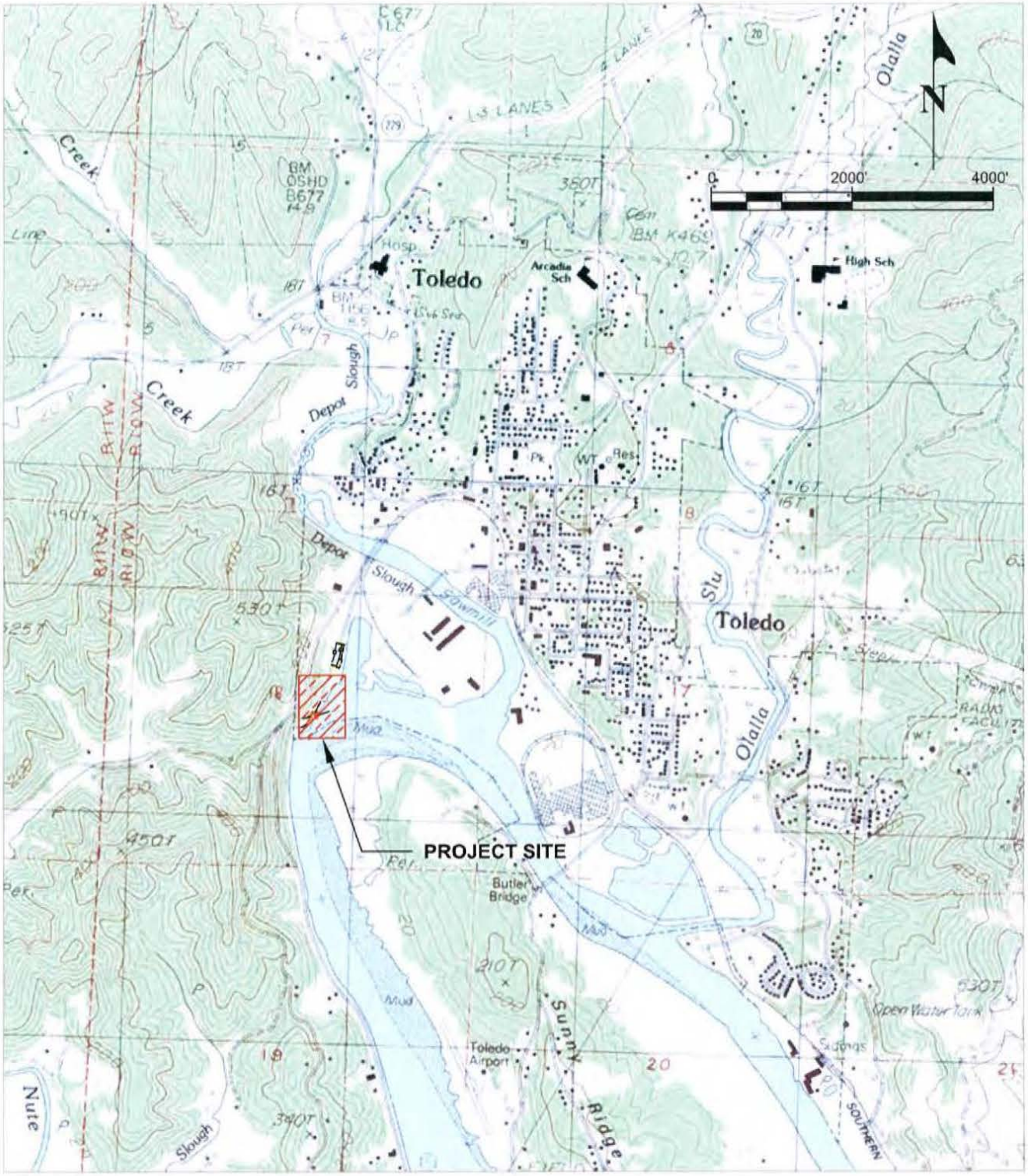


BASE MAP: USGS 7.5' QUADS, TOLEDO NORTH & TOLEDO SOUTH (1984), OREGON

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

SITE LOCATION, FIGURE 1

"PARTNERS IN SERVICE"
Advanced Remediation Technologies Co.
690 NW 1ST AVE, STE 104 CANBY, OREGON 97013
PHONE: (503) 266-2122 fax: (503) 266-4724

DATE	12/15/11
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	1"=2000'
SHEET	1 OF 1

NWP. 2000-1067-3

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
SEDIMENT DREDGING PROJECT

LOCATION MAP
NOT TO SCALE

BASE MAP: USGS 7.5' QUADS: TOLEDO NORTH & TOLEDO SOUTH (WAHL) OREGON

VICIVINTY MAP

PROPERTY LOCATION:

1999 NW ALTREE LANE
TOLEDO, OREGON
LATITUDE: 44°37'0.89" N LONGITUDE: 123°56'56.34" W

PROPERTY DESCRIPTION:

TAX LOT 3800 (LINCOLN COUNTY TAX MAP: 11s-w-9ba)
LOCATED IN SECTION 19, TOWNSHIP 11 SOUTH RANGE 10 WEST, WILLAMETTE MERIDIAN
TOLEDO, LINCOLN COUNTY, OREGON

OWNER/DEVELOPER:

OWNER/DEVELOPER: PORT OF TOLEDO
CONTACT: BUD SHOEMAKE
P.O. BOX 408
TOLEDO, OREGON 97391
PHONE: 541-336-3207
FAX: 541-336-3160

ENGINEERING/SURVEYING FIRM:

ADVANCED REMEDIATION TECHNOLOGIES, INC
CONTACT: LANCE DOWNS, PE, GE
986 NW 1ST AVENUE SUITE 104
CANBY, OREGON 97013
PHONE: 503-266-2122
FAX: 503-266-4724

ATTENTION CONTRACTORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO (2) BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 811 or 1-503-232-2364

NARRATIVE DESCRIPTION:

EXISTING SITE CONDITION:
THE SITE IS CURRENTLY DEVELOPED AS A BOAT YARD, ZONED INDUSTRIAL USE.

DEVELOPED CONDITIONS:
A TEMPORARY BERMED DREDGE SEDIMENT CONTAINMENT AREA WILL BE CONSTRUCTED. THE BERMED CONTAINMENT WILL ALLOW DIRECT VERTICAL DRAINAGE INTO UNDERLYING SOILS FOR THE PURPOSE OF DEWATERING THE DREDGED SEDIMENTS.

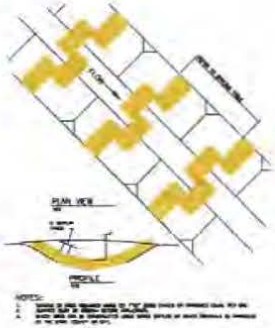
NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE:
SITE CONSTRUCTION GRADING & DREDGING: AUGUST - SEPTEMBER 2012
FINAL STABILIZATION: SEPTEMBER - NOVEMBER 2012

TOTAL SITE AREA = 7.45 ACRES
DISTURBED AREA = 0.7 ACRES

SITE SOIL CLASSIFICATION:
COQUILLE SILT LOAM, 0 TO 1 PERCENT SLOPES, K FACTOR 0.32
RECEIVING WATER BODIES:
YAQUINA BAY

BMP's MATRIX:

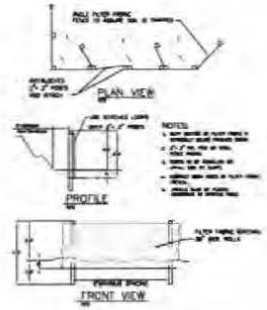
3



1 BIO-FILTER CHECK DAM DETAILS

SPACING FOR CHECK DAMS			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	NOT ALLOWED	[illegible]	[illegible]
[illegible]	NOT ALLOWED	[illegible]	[illegible]
[illegible]	NOT ALLOWED	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

BARRIER SPACING FOR GENERAL APPLICATION		
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS		
% SLOPE	SLOPE	BARRIER SPACING ON SLOPE
10% OR FLATTER	10:1 OR FLATTER	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]



2 SEDIMENT FENCING DETAILS

GENERAL NOTES:

1. THESE NOTES CONTAIN GENERAL INFORMATION. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING AFFECTED WORK.
2. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY FIELD MEASUREMENTS BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
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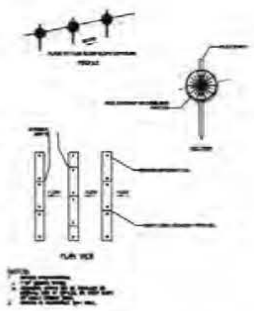
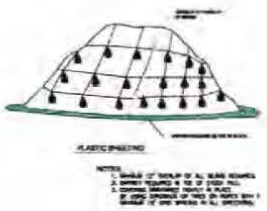
4. UTILITIES SHOWN ON THIS DRAWING DO NOT REPRESENT ALL UTILITIES IN THIS AREA. FOR A COMPLETE REPRESENTATION OF ALL KNOWN UTILITIES IN THIS AREA, CONTACT THE PORT OF TOLEDO.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
6. THE ENGINEER AND PORT OF TOLEDO ARE NOT RESPONSIBLE FOR JOB SITE SAFETY. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
8. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO THE PORT OF TOLEDO AS REQUIRED BY THE PORT TO MAINTAIN OPERATIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE PORT OF TOLEDO.
10. A PRE-CONSTRUCTION MEETING WITH THE PORT, THE PORT'S ENGINEER AND CONTRACTOR REPRESENTATIVE SHALL BE REQUIRED PRIOR TO SCHEDULING ANY WORK.
11. THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR CONTRACTOR TO PERFORM HIS/HER WORK.

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.



3 WATTLE DETAILS



4 STOCKPILE MANAGEMENT

REVISION INFORMATION			
MILESTONE	DATE	REVIEWING AGENCY	
1200-C PERMIT	08/15/2012	DR DEQ	

"PARTNERS IN SERVICE"

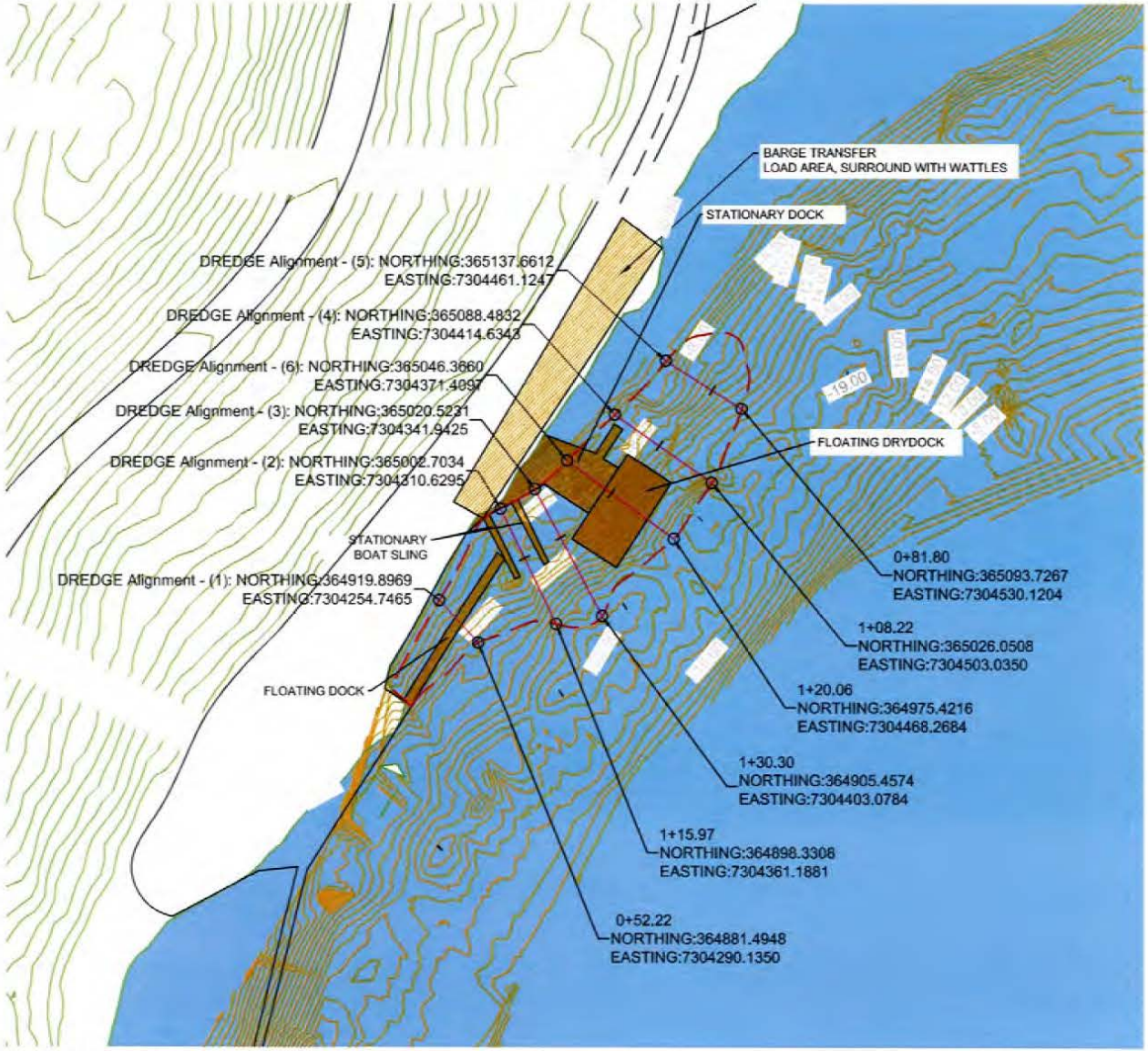
Advanced Remediation Technologies Co.

850 NW 1ST AVE, STE 104 CANBY, OREGON 97013
PHONE: (503) 266-2122 FAX: (503) 266-4724

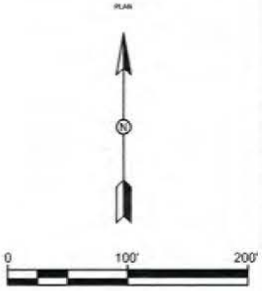
PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON
EROSION CONTROL DETAILS

DATE	08/15/2012
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	NTS
DETAIL	
SHEET	C3 OF 3

NWPA 3000.1067.3



BATHYMETRY SURVEY COMPLETED BY ART ON AUGUST 10, 2011
HORIZONTAL: NAD83, STATE PLANE OREGON NORTH, US SURVEY FEET
SOUNDINGS & ELEV. ARE IN FEET AND REFER TO NAVD 88



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EXPLANATION:

SEDIMENT SURFACE BATHYMETRY (FEET BELOW 0.00 NAV 88 REFERENCE)

DREGDE PRISM LIMITS (~2,991 yd³)

LIDAR CONTOURS GROUND SURFACE (FEET ABOVE 0.00 NAV 88 REFERENCE)

REVISION INFORMATION		
MILESTONE	DATE	REVIEWING AGENCY
PERMIT	07/30/12	DSL/COE/DEQ

"PARTNERS IN SERVICE"
Advanced Remediation Technologies Co.
890 NW 1ST AVE. STE. 104, CANBY, OREGON 97013
PHONE: (503) 266-2192 fax: (503) 266-1724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON
PLANVIEW DREDGE AREA, FIGURE 2

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	1"=100'

SITE PLAN

SHEET 1 OF 1

NWP-2000-1091-E3

NOTE:

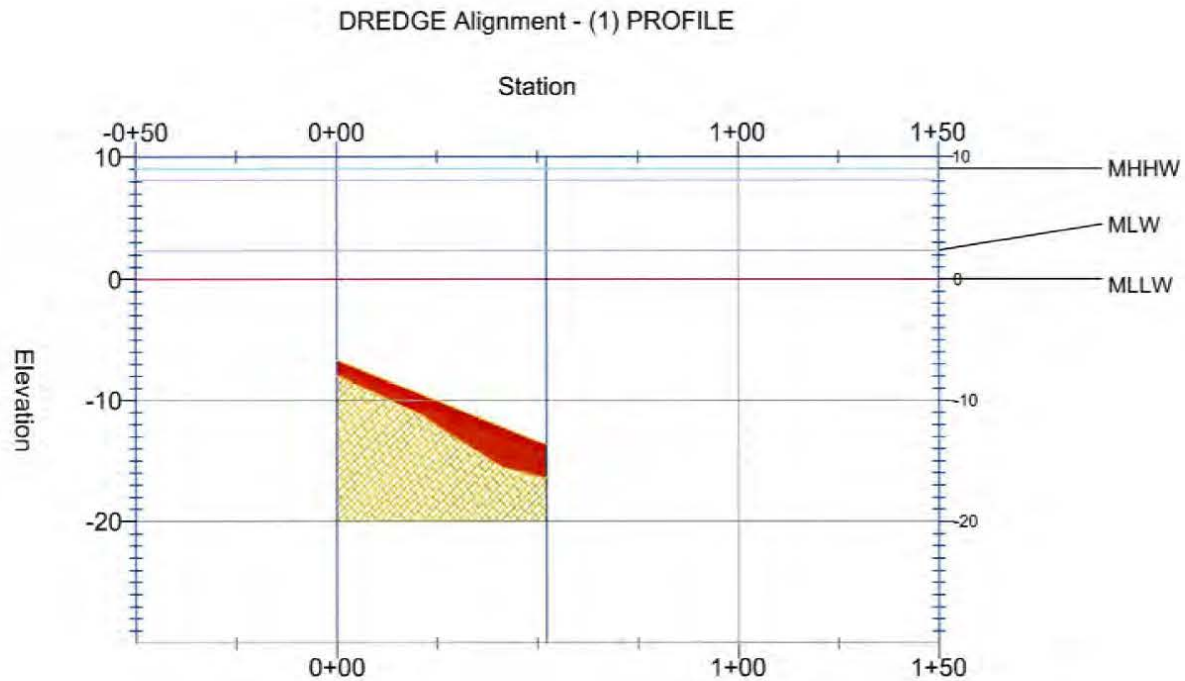
NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE.
SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS,
SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

VERTICAL DATUM CONVERSION	MLLW (FT)	NGVD 88 (FT)
MEAN HIGHER HIGH WATER (MHHW):	8.83	9.63
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362



VERTICAL SCALE: 0 10' 20'

HORIZONTIAL SCALE: 0 30' 60'

REVISION INFORMATION		
MILESTONE	DATE	REVIEWING AGENCY
PERMIT	07/30/12	DSL/COE/DEQ

"PARTNERS IN SERVICE"

Advanced Remediation Technologies Co.

690 NW 1ST AVE, STE. 104, CANBY, OREGON 97013
PHONE: (503) 266-2722 FAX: (503) 266-4724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

DREDGE PROFILE 1, FIGURE 3

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN

SITE PLAN

SHEET 1 OF 1

NWP-2000-1067-3

5

NOTE:

NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE.
SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS,
SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

VERTICAL DATUM CONVERSION	MLLW (FT)	NGVD 88 (FT)
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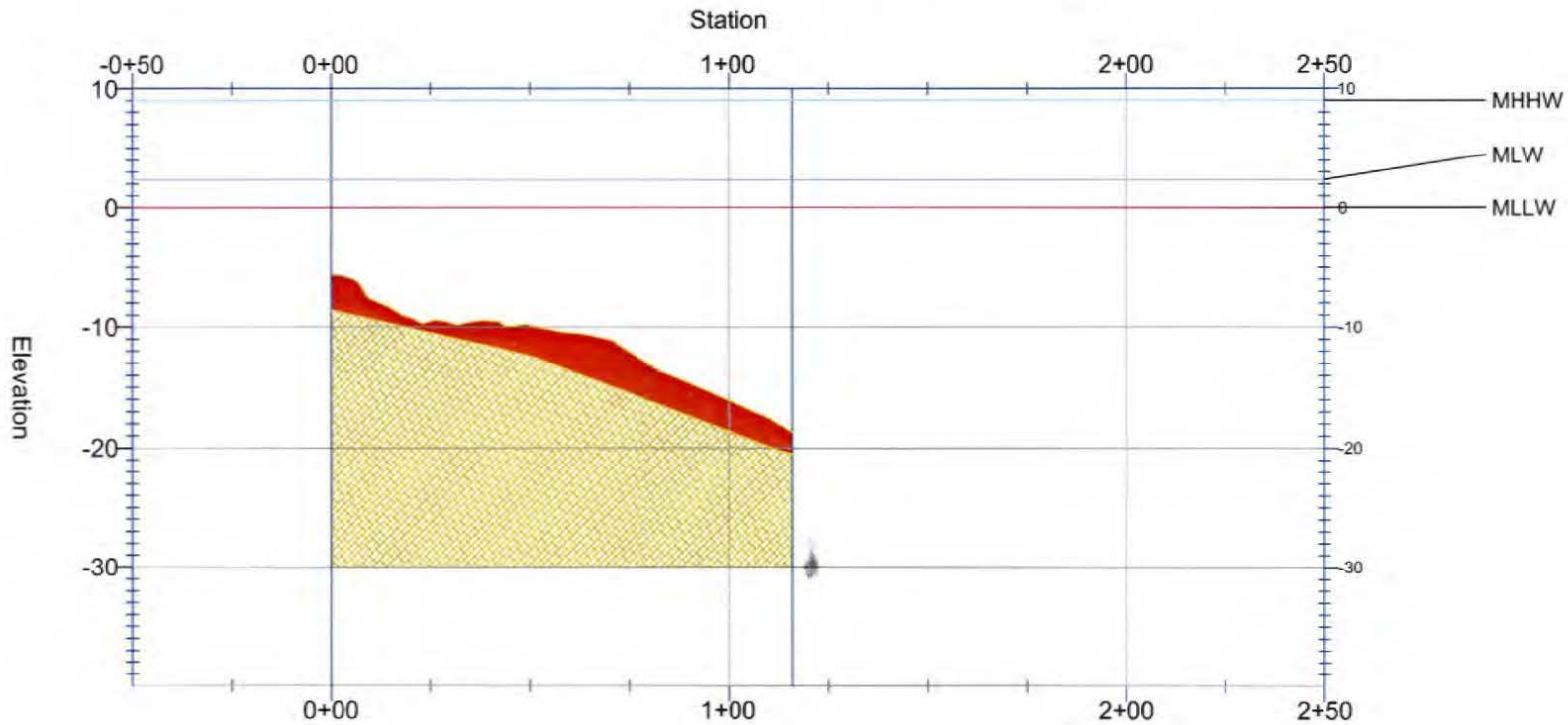
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362

DREDGE Alignment - (2) PROFILE



VERTICAL SCALE: 0 10' 20'

HORIZONTIAL SCALE: 0 30' 60'

REVISION INFORMATION

MILESTONE	DATE	REVIEWING AGENCY
PERMIT	07/30/12	DSL/COE/DEQ

"PARTNERS IN SERVICE"
Advanced Remediation Technologies Co.
690 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-2122 fax: (503) 266-4724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON
DREDGE PROFILE 2, FIGURE 4

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN
SITE PLAN	
SHEET	1 OF 1

WWP-2000-1067-3

NOTE:

NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE.
SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS,
SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

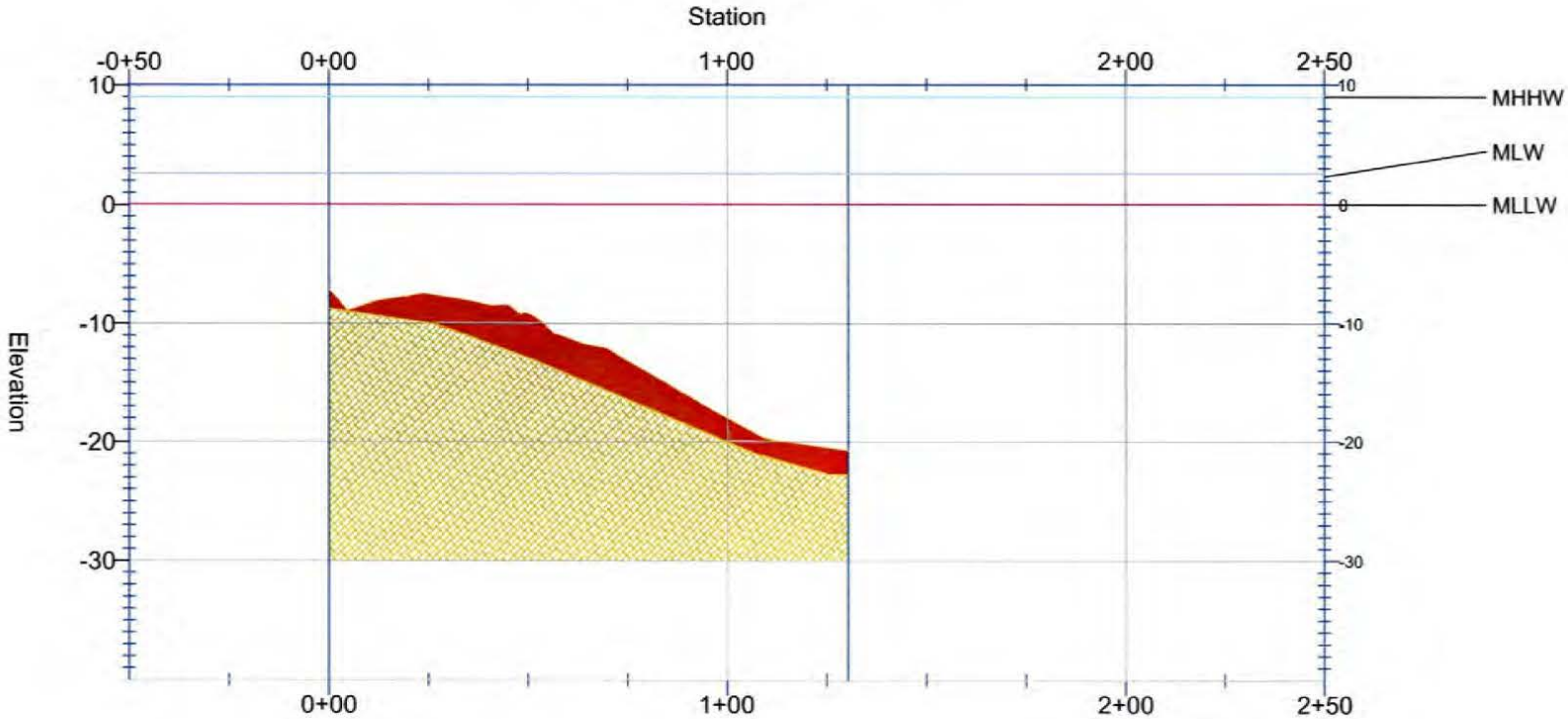
CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

VERTICAL DATUM CONVERSION	MLLW (FT)	NGVD 88 (FT)
MEAN HIGHER HIGH WATER (MHHW):	8.83	9.63
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362

DREDGE Alignment - (3) PROFILE



VERTICAL SCALE: 0 10' 20'

HORIZONTIAL SCALE: 0 30' 60'

REVISION INFORMATION

MILESTONE	DATE	REVIEWING AGENCY
PERMIT	07/30/12	DSL/COE/DEQ

"PARTNERS IN SERVICE"

Advanced Remediation Technologies Co.

690 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-2122 fax: (503) 266-4724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

DREDGE PROFILE 3, FIGURE 5

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN
SITE PLAN	
SHEET	1 OF 1

NWP-2000-1067-3

7

NOTE:

NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE. SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS, SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

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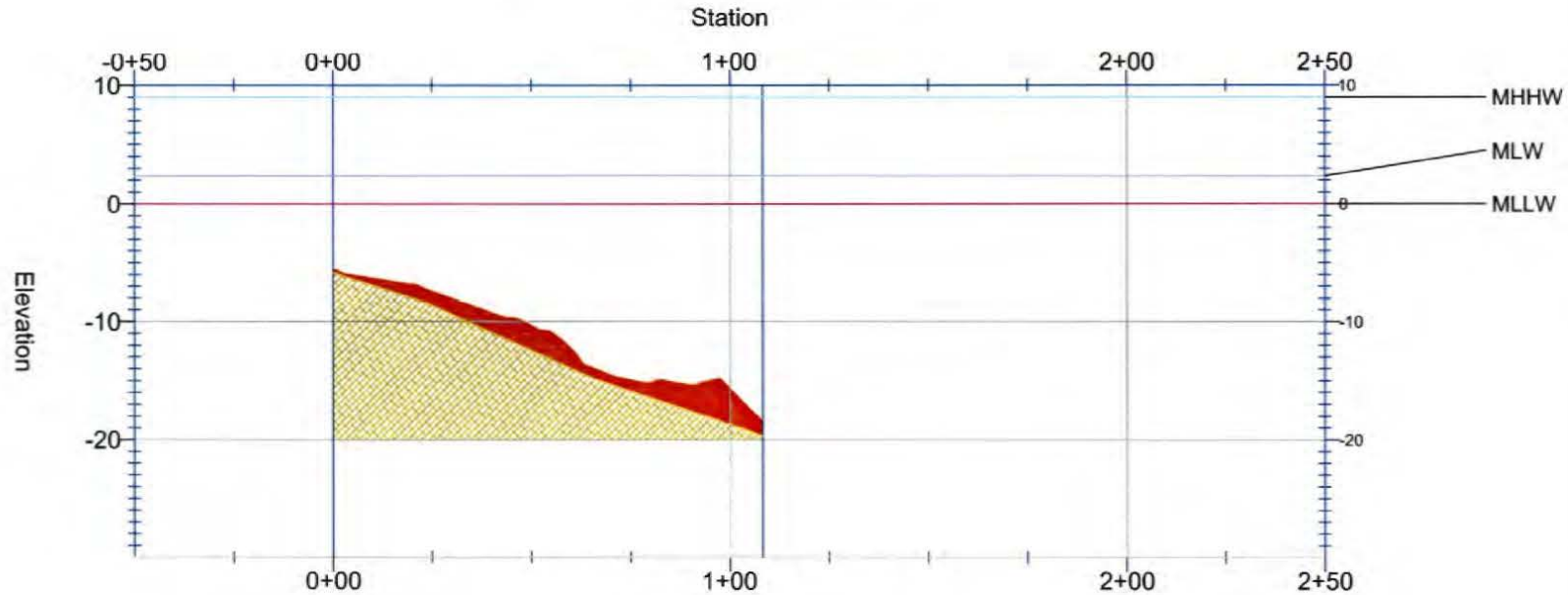
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362

DREDGE Alignment - (4) PROFILE



VERTICAL SCALE: 0 10' 20'

HORIZONTIAL SCALE: 0 30' 60'

REVISION INFORMATION			
MILESTONE	DATE	REVIEWING AGENCY	
PERMIT	07/30/12	DSL/COE/DEQ	

"PARTNERS IN SERVICE"

Advanced Remediation Technologies Co.

890 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-2122 FAX: (503) 266-6724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

DREDGE PROFILE 4, FIGURE 6

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN
SITE PLAN	
SHEET	1 OF 1

NOTE:

NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE.
SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS,
SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

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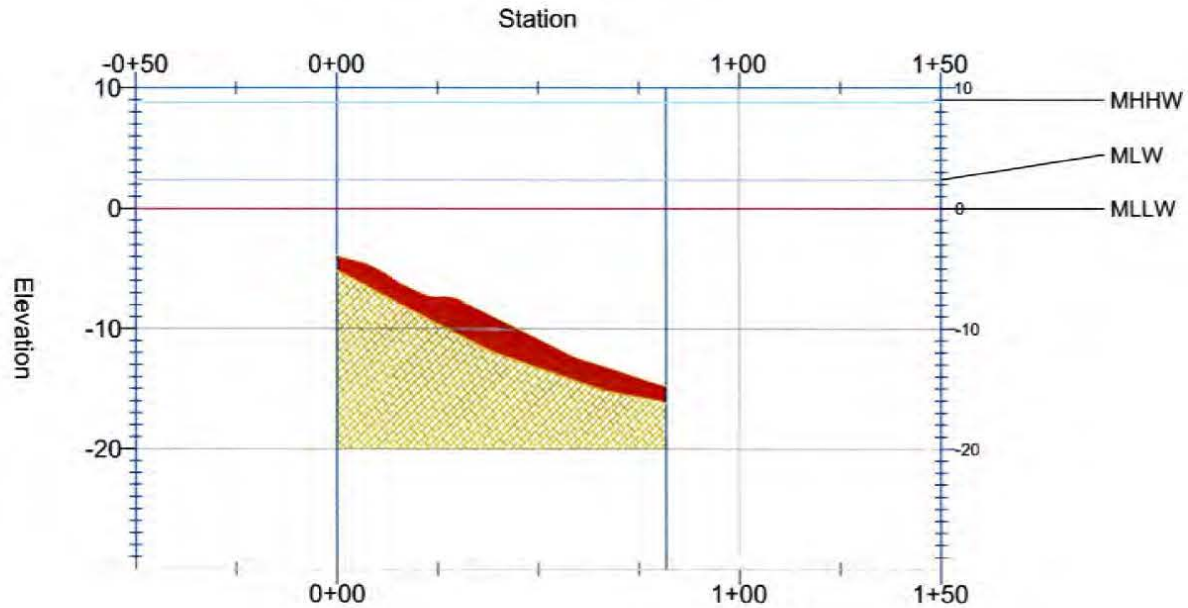
MEAN HIGHER HIGH WATER (MHHW):	8.83	9.63
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362

DREDGE Alignment - (5) PROFILE



VERTICAL SCALE: 0 10' 20'

HORIZONTIAL SCALE: 0 30' 60'

REVISION INFORMATION

MILESTONE	DATE	REVIEWING AGENCY
PERMIT	07/30/12	DSL/COE/DEQ

"PARTNERS IN SERVICE"

Advanced Remediation Technologies Co.

800 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-4122 FAX: (503) 266-1724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

DREDGE PROFILE 5, FIGURE 7

DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN

SITE PLAN

SHEET 1 OF 1

AMP-2000-1064-3

NOTE:

NEW SURFACE MATERIAL (NSM)ELEVATION WILL BE WEATHERED SILTSTONE SURFACE. SILTSTONE SURFACE EXTRAPOLATED FROM VIBRACORE SAMPLE LOCATIONS, SILTSTONE DEPTH MAY VARY. DREDGE PRISM APPEARS TO BE .BELOW SUB-TIDAL ZONE

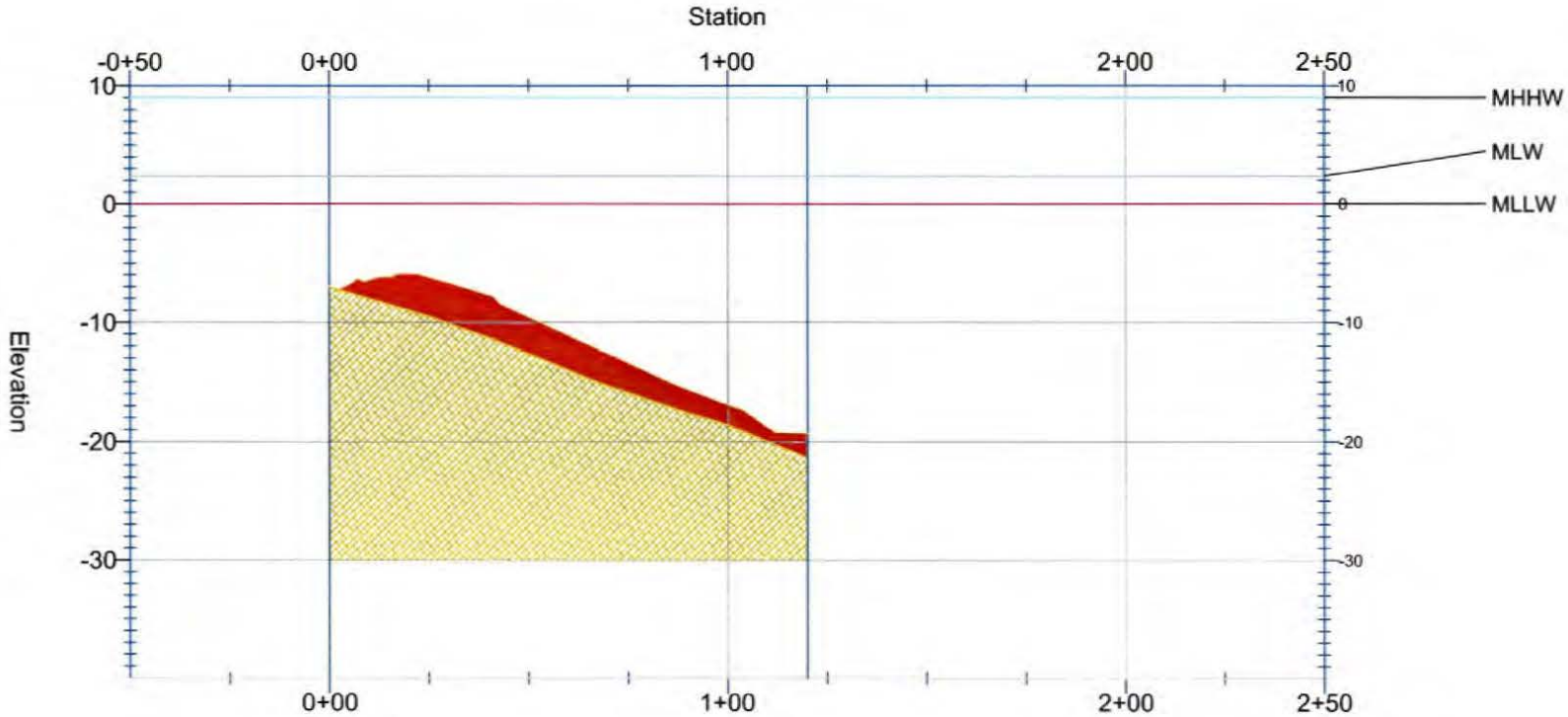
CUT SECTION (SEDIMENT TO BE DREDGED)

APPROXIMATE ELEV. OF WEATHERED SILTSONE

VERTICAL DATUM CONVERSION	MLLW (FT)	NGVD 88 (FT)
MEAN HIGHER HIGH WATER (MHHW):	8.83	9.63
MEAN HIGH WATER (MHW):	8.15	8.95
MEAN LOW WATER (MLW):	1.27	2.07
MEAN LOWER LOW WATER (MLLW)	0.00	0.80

STATION ID: 9435362

DREDGE Alignment - (6) PROFILE



VERTICAL SCALE: 0 10' 20'

HORIZONTAL SCALE: 0 30' 60'

REVISION INFORMATION			
MILESTONE	DATE	REVIEWING AGENCY	
PERMIT	07/30/12	DSL/COE/DEQ	

"PARTNERS IN SERVICE"

Advanced Remediation Technologies Co.

800 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-3132 fax: (503) 266-4724

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON

DREDGE PROFILE 6, FIGURE 8

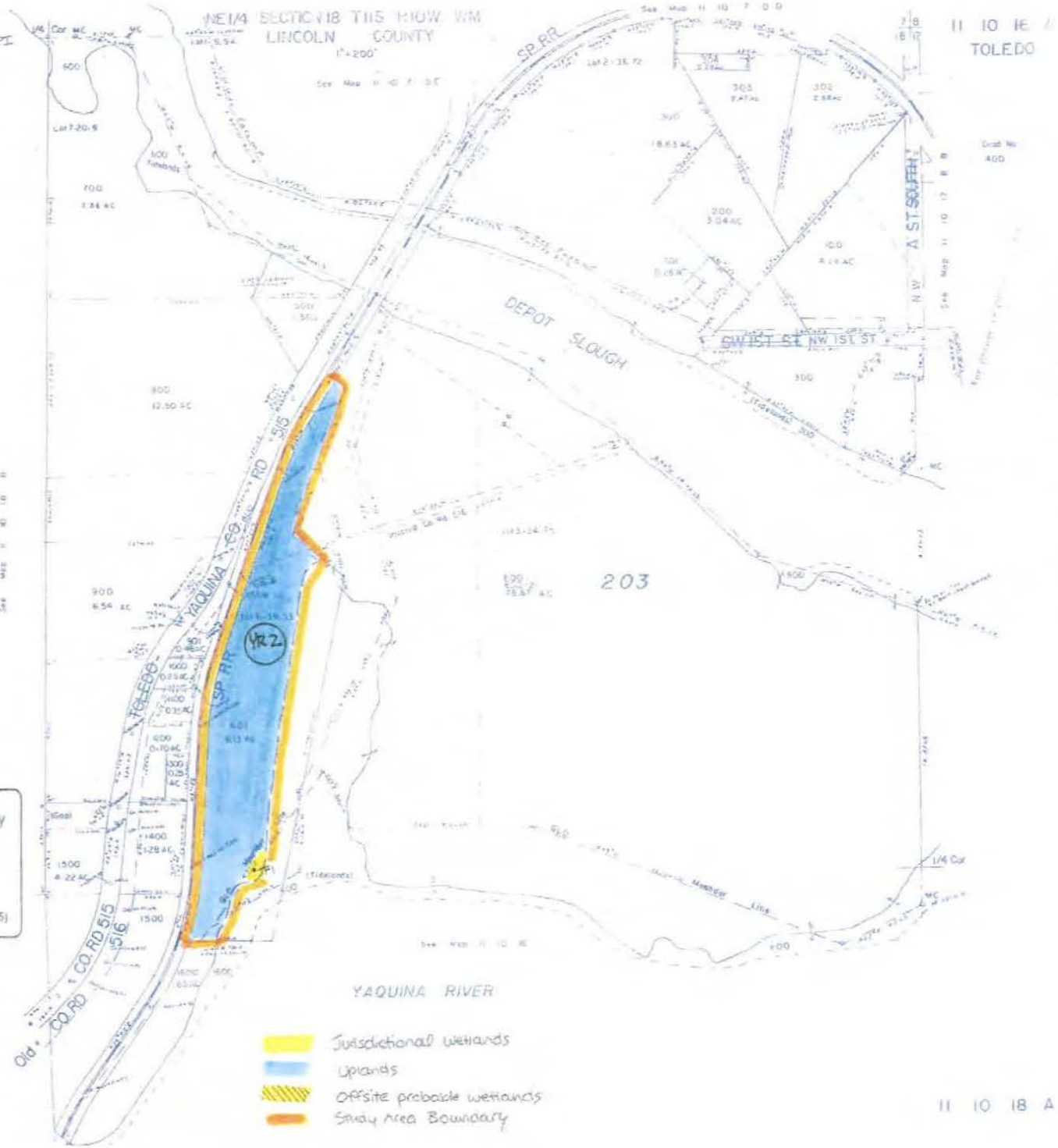
DATE	07/10/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN

SITE PLAN

SHEET 1 OF 1

APPROVED LOCAL WETLANDS INVENTORY
8/1/94
OREGON DEPARTMENT OF STATE LANDS

City of Toledo WCPI 1993



City of Toledo
Wetland Conservation Plan Inventory Map
(Prepared by Onno Husing)
This map is for planning purposes only.
Wetland Boundaries are Approximate.
If ground alteration is planned near a mapped wetland, contact the Oregon Division of State Lands, (503-378-3805)

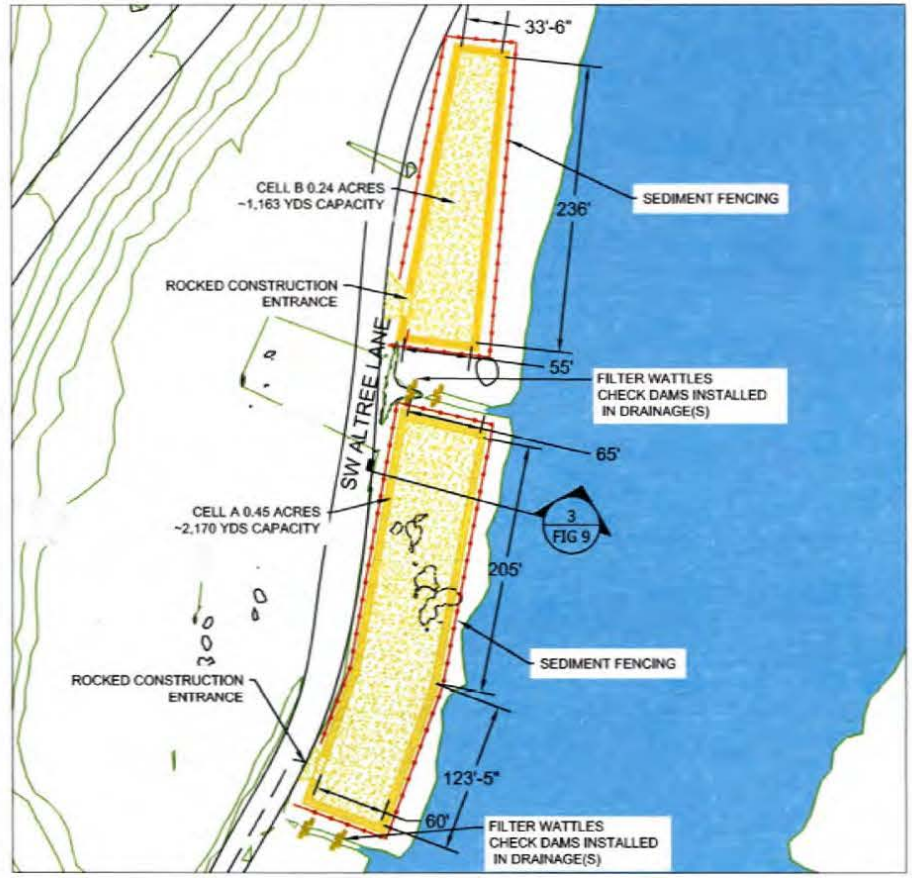
NWP. 2000-1067-3

11

100 YR FLOOD PLAIN LOCATION
BERMED CONTAINMENT FOR DREDGE SPOILS

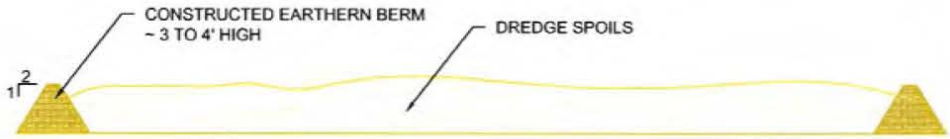
BATHYMETRY SURVEY COMPLETED BY ART ON AUGUST 10, 2011
HORIZONTAL: NAD83, STATE PLANE OREGON NORTH, US SURVEY FEET
SOUNDINGS & ELEV. ARE IN FEET AND REFER TO NAVD 88

- SEDIMENT SURFACE BATHYMETERY
- DREGDE PRISM LIMITS (~2,991 yd³)
- LIDAR CONTOURS GROUND SURFACE
- 100 YR FLOOD PLAIN LIMITS, FEMA MAP PANEL 0527D LINCOLN COUNTY, OREGON
- JURSIDICTIONAL WETLANDS APRROX. LOCATION



0 100' 200'

PLAN VIEW
BERMED CONTAINMENT FOR DREDGE SPOILS



0 10' 20'

3 DREDGE CONTAINMENT SECTION
Scale: 1" = 10"

REVISION INFORMATION			
MILESTONE	DATE	REVIEWING AGENCY	
PERMIT	07/25/12	COE/DSL/DEQ	
DSL REVISION	01/10/13	COE/DSL/DEQ	

"PARTNERS IN SERVICE"
Advanced Remediation Technologies Co
890 NW 1ST AVE, STE 104, CANBY, OREGON 97013
PHONE: (503) 266-2122 FAX: (503) 266-2121

PORT OF TOLEDO
FORMER FRED WAHL DRYDOCK
TOLEDO, OREGON
DREDGE CONTAINMENT LOCATION, FIGURE 9

DATE	07/25/12
DRAWN	LAD
DESIGN	LAD
CHECK	KAD
SCALE	SEE PLAN
SITE PLAN	
SHEET	1 OF 1

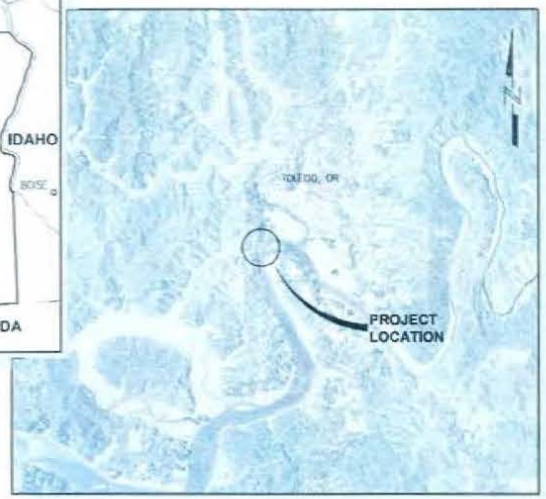
3 of 2000-1067 MW

13

AWP. 2000. 1067.3

PORT OF TOLEDO
BOATYARD HAUL-OUT PIER

OREGON KEY MAP



VICINITY MAP

LOCATION MAP
(TOLEDO, OREGON)

TIDAL DATA	MLLW ELEV. (FT)
HIGHEST OBSERVED WATER LEVEL (12/11/1969)	+12.05
MEAN HIGHER HIGH WATER (MHHW)	+8.34
MEAN HIGH WATER (MHW)	+7.84
MEAN TIDE LEVEL (MTL)	+4.39
MEAN SEA LEVEL (MSL)	+4.46
MEAN LOW WATER (MLW)	+1.39
NORTH AMERICAN VERTICAL DATUM (NAVD88)	+0.74
MEAN LOWER LOW WATER (MLLW)	0.0
LOWEST OBSERVED WATER LEVEL (06/01/1973)	-3.50

PRELIMINARY

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[illegible]

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REVISIONS

REV	DATE	DESCRIPTION

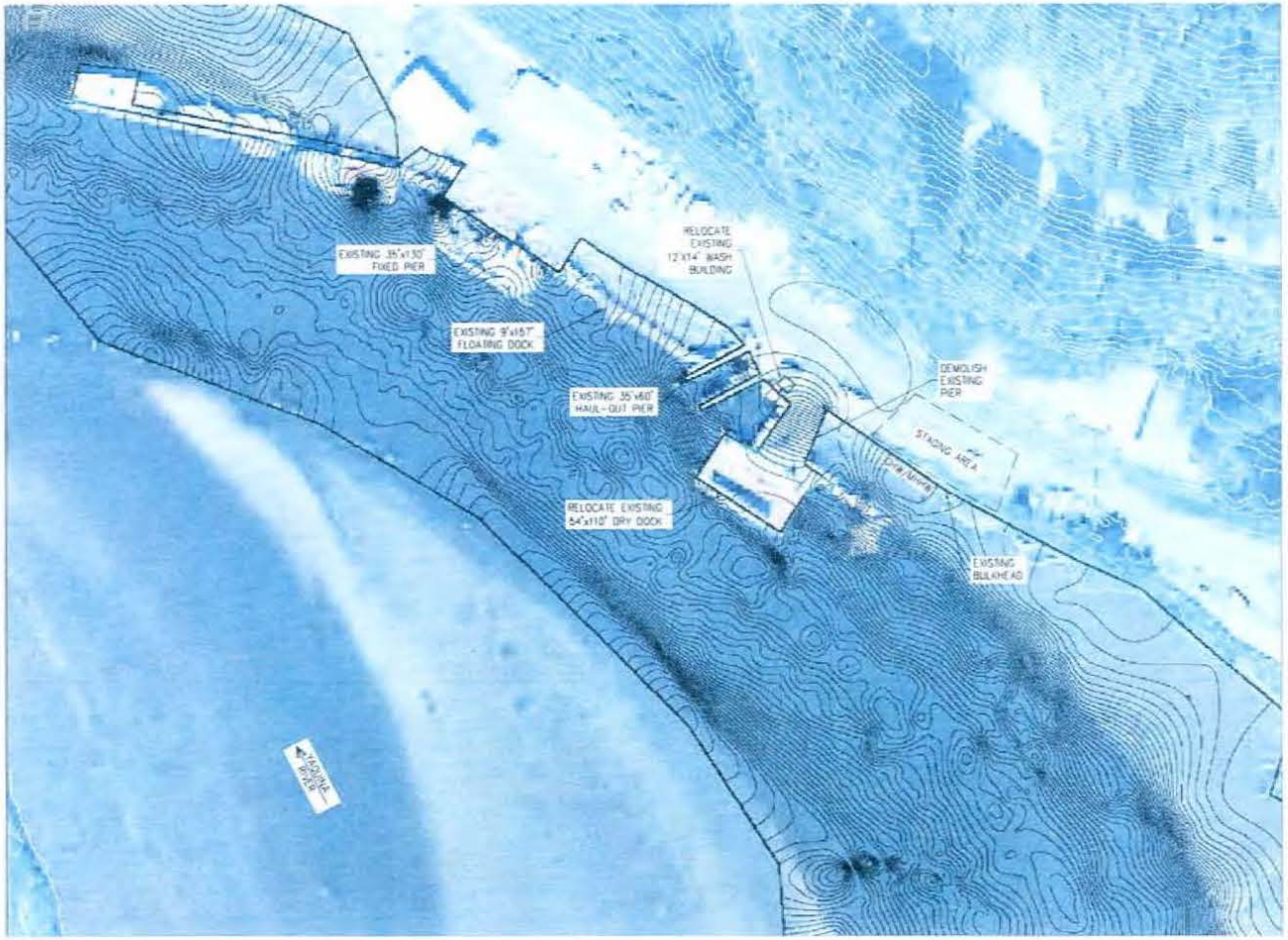
PROJECT: PORT OF TOLEDO MARINE HAUL-OUT PIER

TITLE: TITLE SHEET

DESIGNED BY: JRK	PROJECT NO: 124-0102	SHEET NO: 1 OF 5
DRAWN BY: DPK	DATE: DECEMBER 2001	
CHECKED BY:	SCALE: NONE	

14

NWP. 2000. 1067. 3



SITE PLAN

NOT TO SCALE

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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: PILE SUPPORTED PIER
MARINE HAUL-OUT PIER

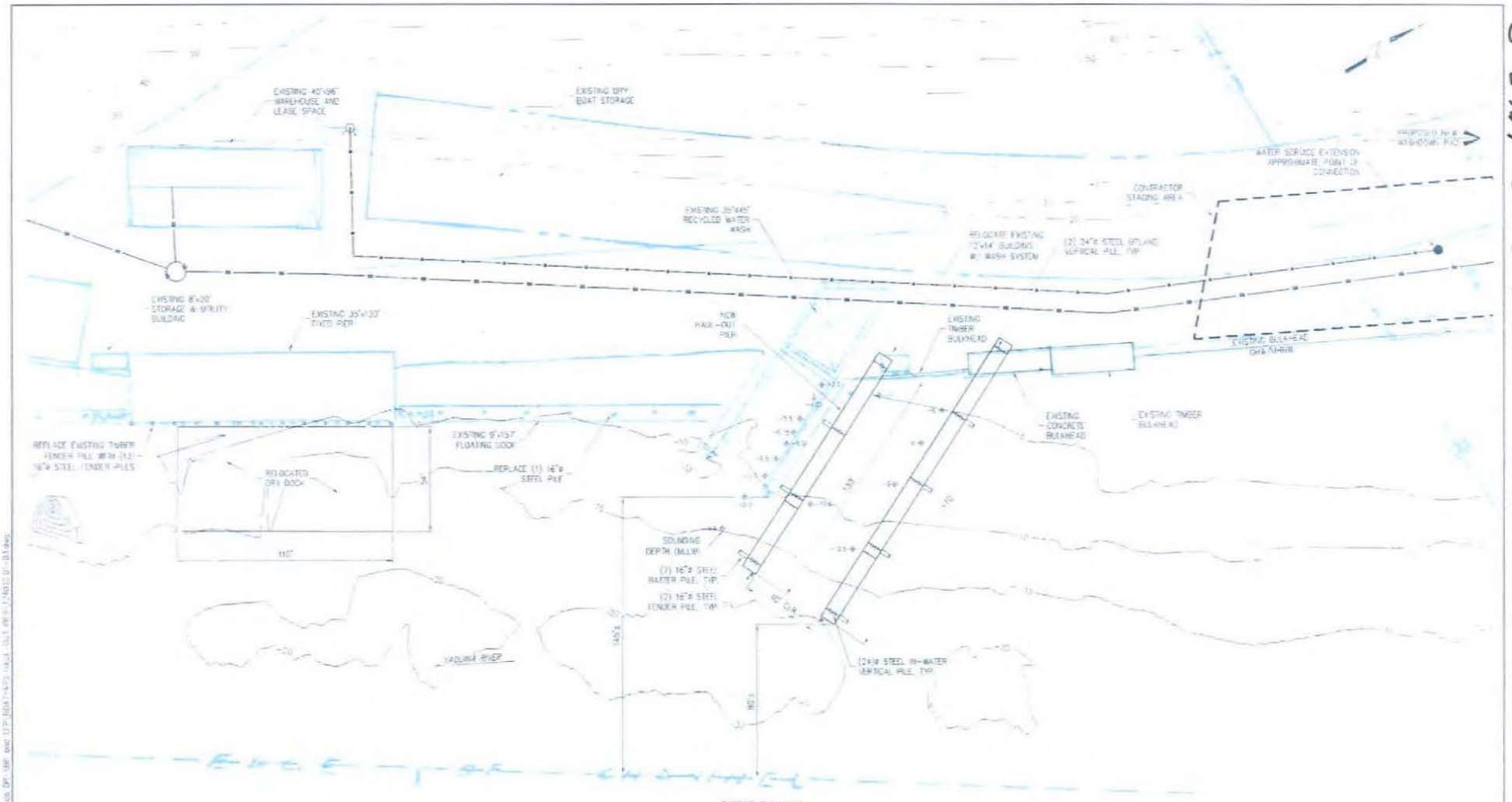
TITLE: EXISTING SITE PLAN

DESIGNED BY: JBP	PROJECT NO: 124022.01	SHEET NO	
DRAWN BY: DRH	DATE: DECEMBER 2012	2 OF 5	
CHECKED BY:	SCALE: NOTED		

12/5/12
Drawing: 2012\124022.01 - Port of Hoh\ (01-JBP and DRH)\MAT\HAUL-OUT PIER\124022.01-02.dwg

15

NWP. 2000. 1067. 3



SITE PLAN

0 20 40 60 120 180 FT

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REVISIONS

REV	DATE	DESCRIPTION

PROJECT: PORT OF TOLEDO MARINE HAUL-OUT PIER

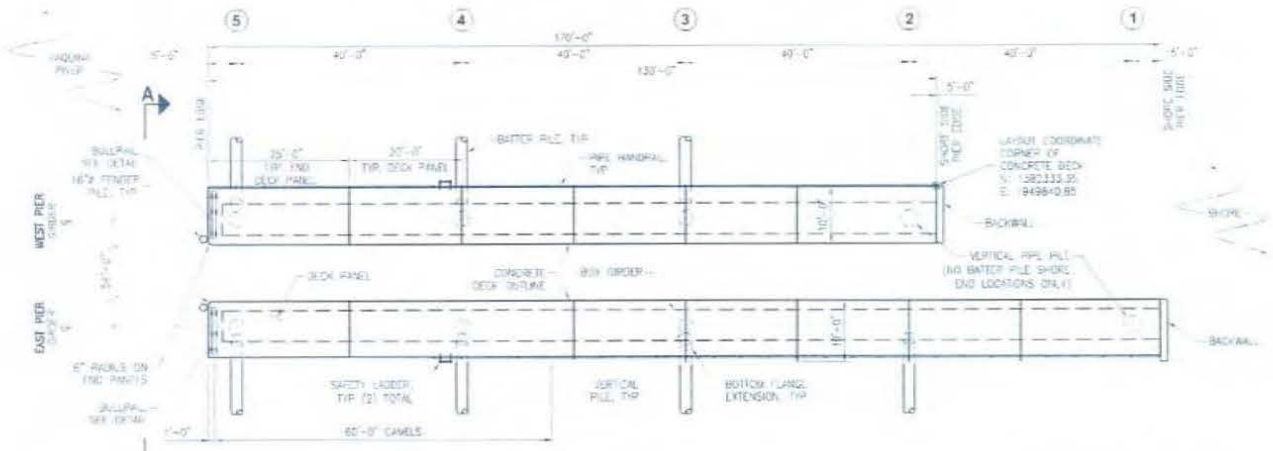
SCALE: PROPOSED NEW SITE PLAN

DESIGNED BY: JRH | PROJECT NO.: 12-03-01
DRAWN BY: DRH | DATE: DECEMBER 2012
CHECKED BY: | SCALE: NONE

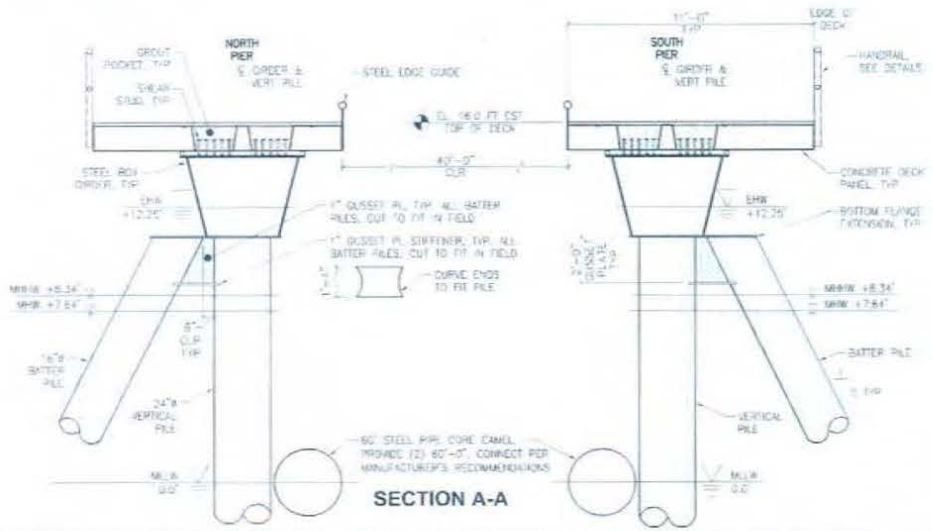
SHEET NO. 3 OF 5

16

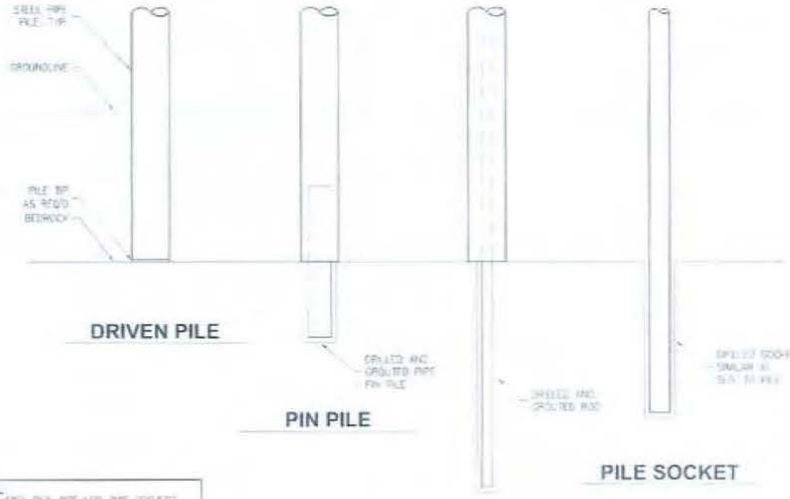
NWP. 2000.1067.3



PIER PLAN



SECTION A-A



DRIVEN PILE

PIN PILE

ROCK ANCHOR

PILE SOCKET

NOTE:
STEEL PIPE PILE TIPS FOR THIS PROJECT WILL BE INSTALLED PER ONE OF THE METHODS DEPICTED ON THIS SHEET. ACTUAL METHOD TO BE DETERMINED AS SUBSURFACE CONDITIONS BECOME KNOWN. ALL PILES DRIVEN TO IMPACT HAMMER REFUSAL.

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REVISIONS

REV	DATE	DESCRIPTION

PROJECT
PILE SUPPORTED PIER
MARINE HAUL-OUT PIER

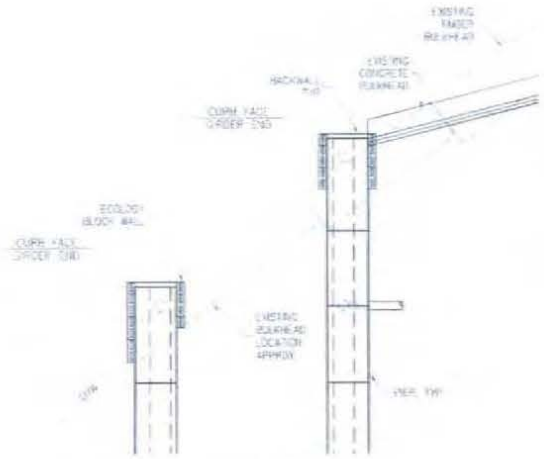
TITLE
PILE SUPPORTED PIER
PLAN AND SECTION

DESIGNED BY: JBH
DRAWN BY: DRH
CHECKED BY:
PROJECT NO.: 124022.01
DATE: DECEMBER 2010
SCALE: NONE

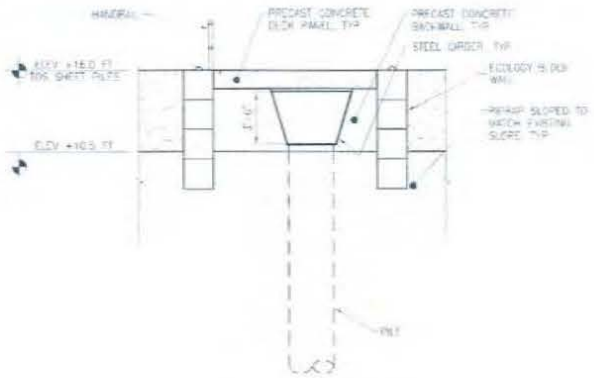
SHEET NO. 4 OF 5

17

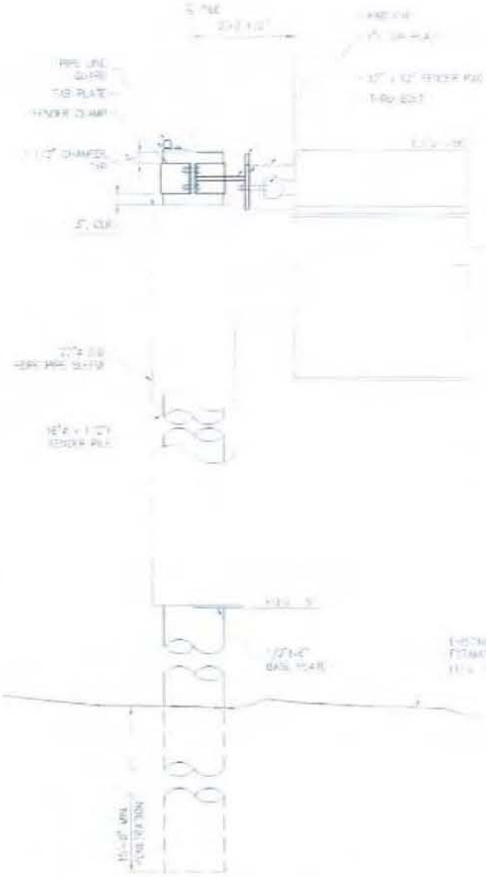
NWP. 2000. 1067. 3



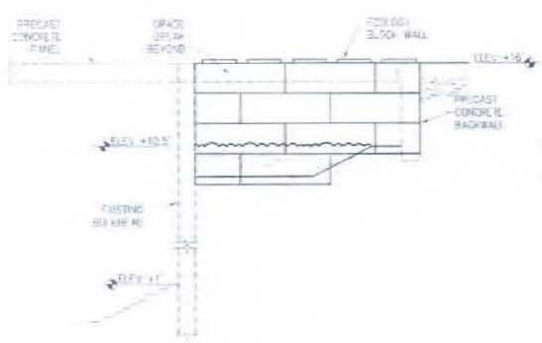
PIER SHORE END PLAN



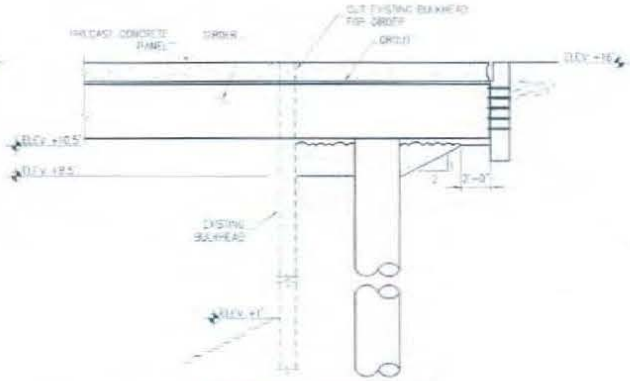
PIER ELEVATION



FENDER PILE



BACKWALL AND
ECOLOGY BLOCK ELEVATION



ABUTMENT ELEVATION

PRELIMINARY

P N D ENGINEERS, INC.

REVISIONS

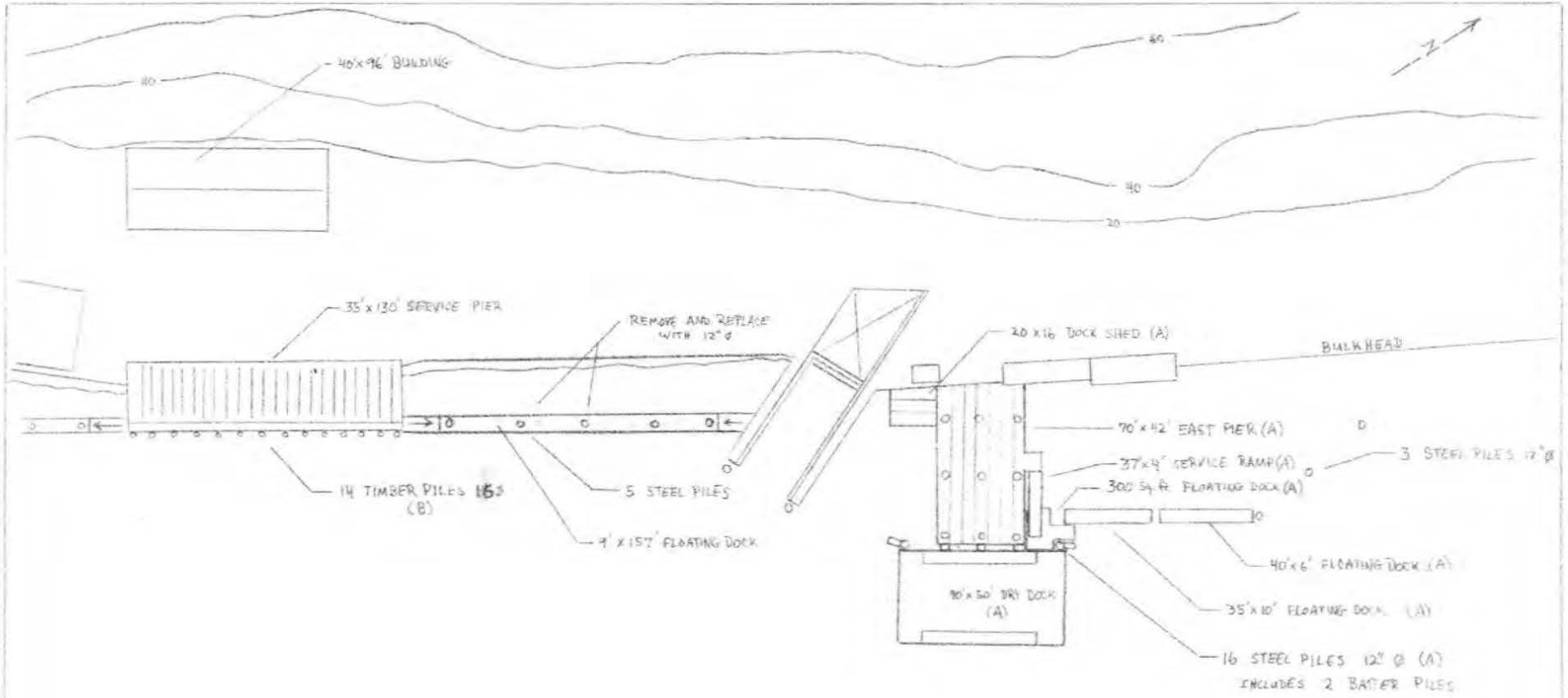
REV	DATE	DESCRIPTION

PILE SUPPORTED PIER
MARINE HAUL-OUT PIER

PILE SUPPORTED PIER
DETAILS

DESIGNED BY JH
DRAWN BY JH
CHECKED BY
PROJECT NO
DATE
SCALE
SHEET NO 5 OF 5

NWP. 2000. 1067. 3



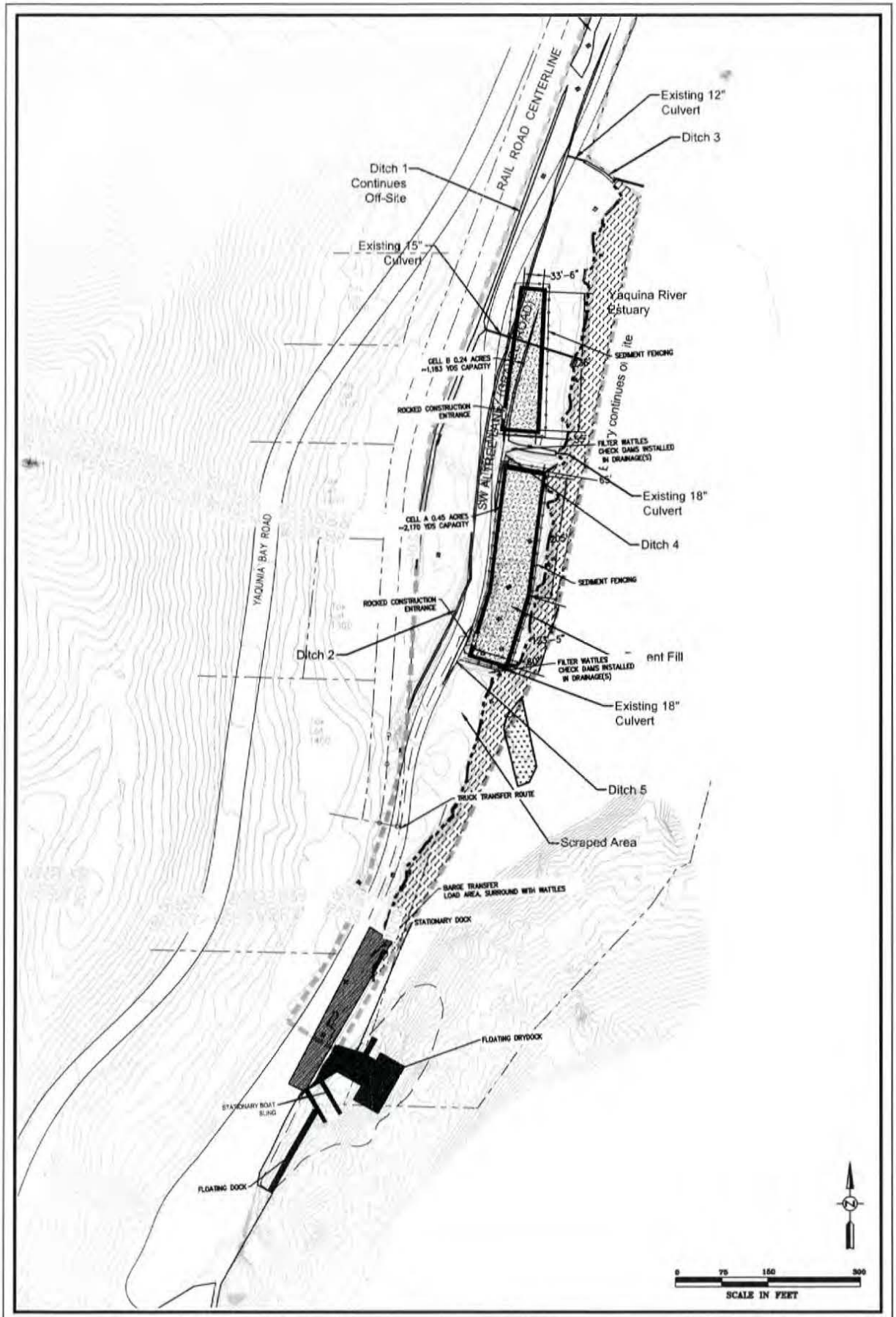
NOTES

A - THESE COMPONENTS TO BE ELIMINATED PRIOR TO CONSTRUCTION OF NEW HAUL-OUT PIER

B - TO BE REPLACED WITH 16" Ø STEEL PILES

PORT OF TOLEDO

BOATYARD - EXISTING WATERFRONT



PHS
Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180 Wilsonville, Oregon 97070
Phone: (503) 570-0800 Fax: (503) 570-0855

Survey provided by GM Mapping. Survey and Sample point accuracy is sub-centimeter. Lidar Imagery utilized for HMT only. Study area accuracy +/- 1 meter based on surveyed line work and is approximated within Estuary.

Proposed Site Plan with Wetland Delineation Overlay
Port of Toledo Boatyard - Toledo, Oregon

FIGURE 1

9-13-13

19

NWP. 2000. 1067. 3

K:\Project Directories\5200\5203 Port of Toledo\AutoCAD\Plot Dwgs\Proposed SitePlan.dwg, 9/18/2013 10:13 AM