PROJECT MANAGER

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EXELTECH
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OWNER'S REPRESENTATIVE

KATHLEEN WADDEN
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503-823-2246 FAX

PURPOSE

IMPROVE BOATER ACCESS AND SAFETY AT THE WILLAMETTE PARK BOAT RAMP

ADJACENT PROPERTY OWNERS

WILLAMETTE SAILING CLUB OF PORTLAND
ANTHONY AND MICHELLE SOTER

SITE LOCATION/ADDRESS

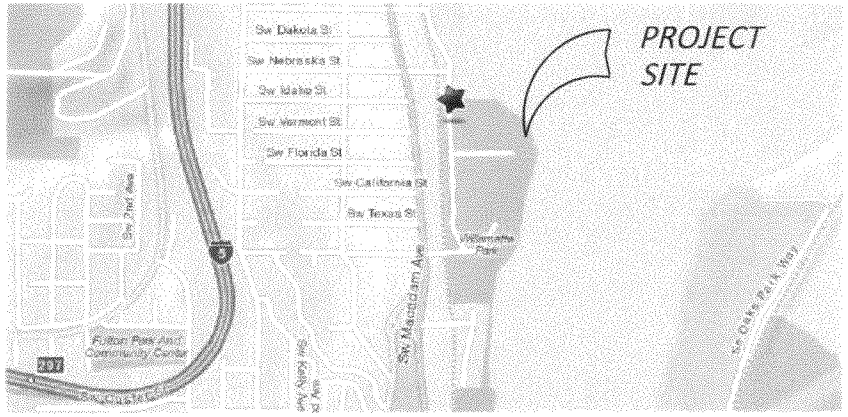
RIVER MILE 15.8 ON THE WILLAMETTE RIVER
NEAR: PORTLAND, OR
COUNTY: MULTNOMAH

PROPOSED

MAINTENANCE DREDGING AND REPAIR OF THE EXISTING BOAT RAMP

ABBREVIATIONS

CIP	CAST-IN-PLACE
DLW	DESIGN LOW WATER
OLW	ORDINARY LOW WATER
OHW	ORDINARY HIGH WATER
PP&R	PORTLAND PARKS AND RECREATION



SITE MAP

NTS

GENERAL NOTES

1. DO NOT OBTAIN DIMENSIONS BY SCALING DRAWINGS. USE WRITTEN DIMENTSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS OR DISCREPANCIES FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
3. STAGING AREAS ARE TO BE WITHIN THE DESIGNATED CONSTRUCTION LIMITS. IF THE CONTRACTOR REQUIRES ADDITIONAL AREA, HE SHALL SUBMIT A WRITTEN REQUEST TO THE OWNERS'S REPRESENTATIVE.
4. VERIFY ALL SITE CONDITIONS BY SITE VISIT PRIOR TO BID OPENING.
5. VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. FOR LOCATIONS CONTACT PORTLAND PARKS & RECREATION, (503) 823-1607 AND THE UTILITIES NOTIFICATION CENTER (503) 246-6699 NOT LESS THAN 48 HOURS PRIOR TO BEGINNING WORK.
6. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE CITY OF PORTLAND 2007 STANDARD SPECIFICATIONS, THE 2010 OREGON STRUCTURAL SPECIALTY CODE, THE 2005 PORTLAND FIRE CODE, THE 2011 OREGON ELECTRICAL SPECIALTY CODE, AND THE 2011 OREGON PLUMBING SPECIALTY CODE.
7. CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF FEDERAL, STATE AND CITY PERMITS.
8. PROTECT ALL EXISTING IMPROVEMENTS TO REMAIN. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE CITY.

DRAWING INDEX

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FIGURE 1

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

exeltech

Portland Parks and Recreation
DAN SALTZMAN, Commissioner - ZARI SANTNER, Director
WILLAMETTE PARK BOAT RAMP REPAIR
COVER SHEET
Portland, Oregon
PROJECT MANAGER: GREG REID
DATE: 03-21-2012 SCALE: AS SHOWN DRAWN BY: JWB SECTION:

REVISIONS

DATE	DESCRIPTION	BY

SHEET 1 OF 7

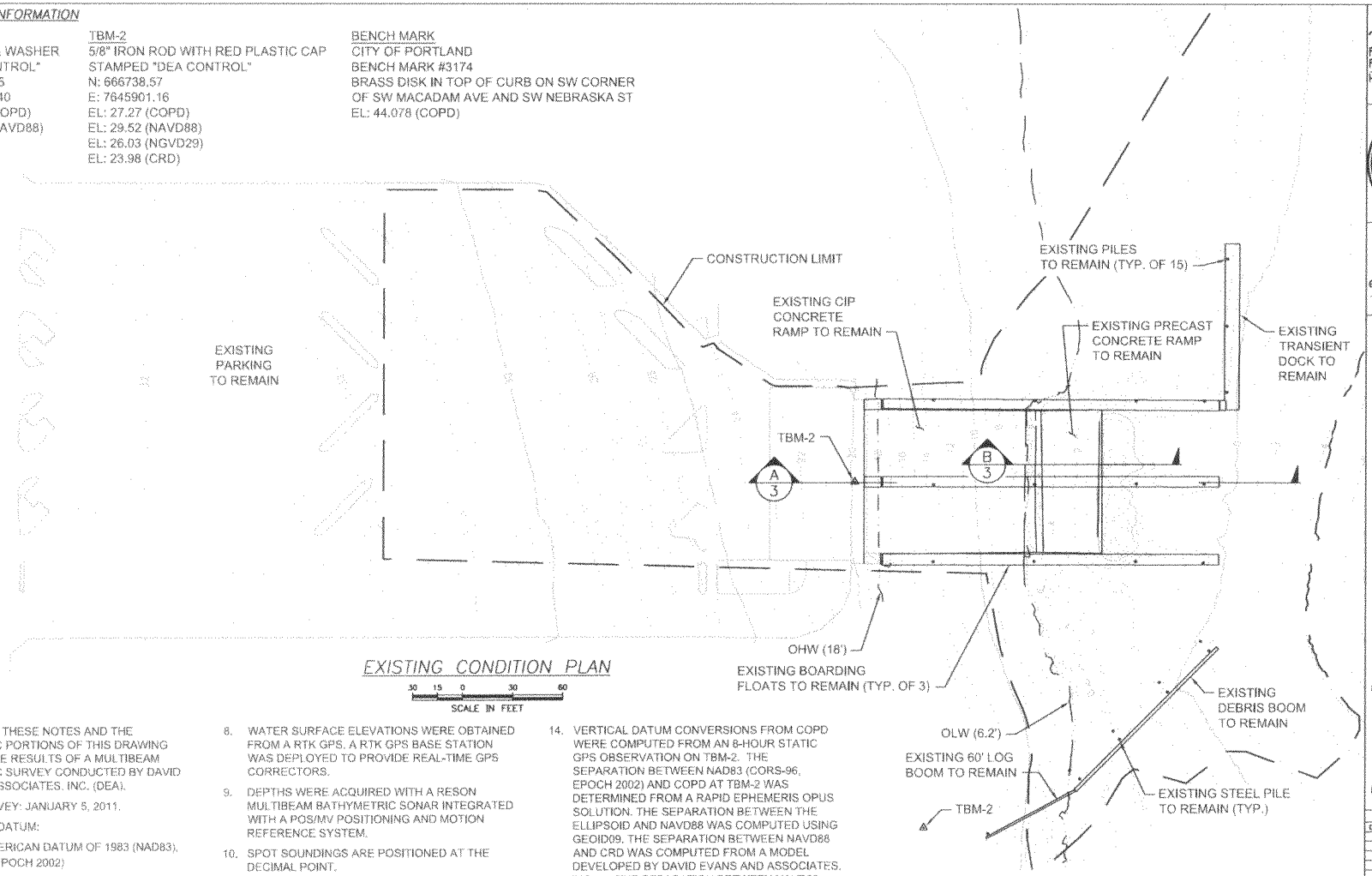
P:\2010\0642 Portland Parks\Willamette Boat Ramp Dredging\CAD\0642 Sheets.dwg, 03-22-12, 7:52am, jrones

SURVEY INFORMATION

TBM-1
MAG NAIL & WASHER
"OSMB CONTROL"
N: 666945.96
E: 7645859.40
EL: 20.04 (COPD)
EL: 22.29 (NAVD88)

TBM-2
5/8" IRON ROD WITH RED PLASTIC CAP
STAMPED "DEA CONTROL"
N: 666738.57
E: 7645901.16
EL: 27.27 (COPD)
EL: 29.52 (NAVD88)
EL: 26.03 (NGVD29)
EL: 23.98 (CRD)

BENCH MARK
CITY OF PORTLAND
BENCH MARK #3174
BRASS DISK IN TOP OF CURB ON SW CORNER
OF SW MACADAM AVE AND SW NEBRASKA ST
EL: 44.078 (COPD)



EXISTING CONDITION PLAN

30 15 0 30 60
SCALE IN FEET

NOTES:

1. PORTIONS OF THESE NOTES AND THE BATHYMETRIC PORTIONS OF THIS DRAWING PRESENTS THE RESULTS OF A MULTIBEAM BATHYMETRIC SURVEY CONDUCTED BY DAVID EVANS AND ASSOCIATES, INC. (DEA).
2. DATE OF SURVEY: JANUARY 5, 2011.
3. HORIZONTAL DATUM:
   NORTH AMERICAN DATUM OF 1983 (NAD83), (CORS-96,EPOCH 2002)
   STATE PLANE COORDINATE SYSTEM (SPCS), OREGON NORTH ZONE.
4. VERTICAL DATUM: CITY OF PORTLAND (COPD)
5. UNITS: INTERNATIONAL FEET.
6. CONTOUR INTERVAL: 1.0 FEET.
7. HORIZONTAL POSITIONS WERE ACQUIRED WITH A POS/MV COMBINED INERTIAL AND REAL-TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK GPS).
8. WATER SURFACE ELEVATIONS WERE OBTAINED FROM A RTK GPS. A RTK GPS BASE STATION WAS DEPLOYED TO PROVIDE REAL-TIME GPS CORRECTORS.
9. DEPTHS WERE ACQUIRED WITH A RESON MULTIBEAM BATHYMETRIC SONAR INTEGRATED WITH A POS/MV POSITIONING AND MOTION REFERENCE SYSTEM.
10. SPOT SOUNDINGS ARE POSITIONED AT THE DECIMAL POINT.
11. PLANIMETRIC LINEWORK AND AERIAL ARE PROVIDED FOR REFERENCE ONLY.
12. HORIZONTAL CONTROL AT TBM-1 AND TBM-2 WAS ESTABLISHED USING THE OREGON REAL-TIME GPS NETWORK (ORGN).
13. VERTICAL CONTROL AT TBM-1 AND TBM-2 WAS ESTABLISHED USING DIFFERENTIAL LEVELS BASED ON THE CITY OF PORTLAND BENCHMARK #3174.
14. VERTICAL DATUM CONVERSIONS FROM COPD WERE COMPUTED FROM AN 8-HOUR STATIC GPS OBSERVATION ON TBM-2. THE SEPARATION BETWEEN NAD83 (CORS-96, EPOCH 2002) AND COPD AT TBM-2 WAS DETERMINED FROM A RAPID EPHEMERIS OPUS SOLUTION. THE SEPARATION BETWEEN THE ELLIPSOID AND NAVD88 WAS COMPUTED USING GEOID09. THE SEPARATION BETWEEN NAVD88 AND CRD WAS COMPUTED FROM A MODEL DEVELOPED BY DAVID EVANS AND ASSOCIATES, INC. THE SEPARATION BETWEEN NAVD88 AND NGVD29/47 WAS COMPUTED USING VERTCON94. THE RESULTS ARE DISPLAYED IN THE VERTICAL DATUM CONVERSION TABLE AND SHOULD ONLY BE USED FOR THIS SITE. THE SEPARATION VALUES VARY SPATIALLY.
15. TOPOGRAPHIC SURVEY DATA ABOVE FIVE FEET IS FROM OSMB SURVEY DATED 11/03/2009.

FIGURE 2

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

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Portland Parks and Recreation
DAN SALTZMAN, Commissioner
ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
EXISTING CONDITIONS
Portland, Oregon
PROJECT MANAGER: GREG REID
DATE 03-21-2012 SCALE AS SHOWN DRAWN BY JWB SECTION

REVISIONS		
DATE	DESCRIPTION	BY

SHEET 2 OF 7

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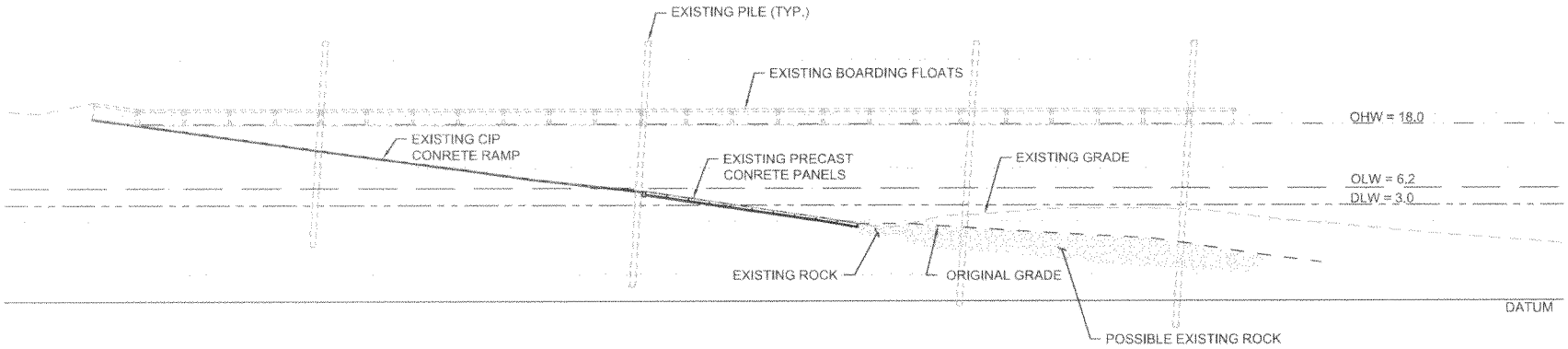
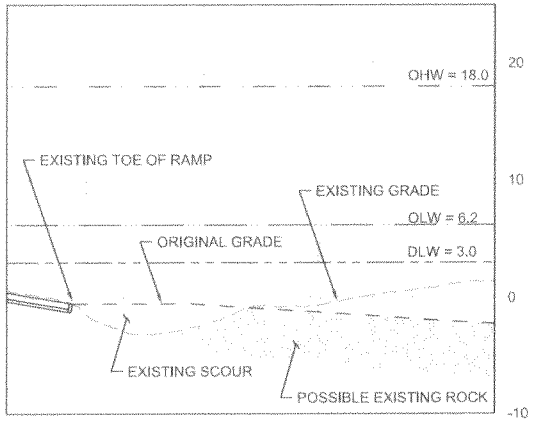


EXISTING RAMP PROFILE A

10 5 0 10 20
SCALE IN FEET



EXISTING TOE OF RAMP PROFILE B

5 2.5 0 5 10
SCALE IN FEET

LEGEND

- EXISTING ROCK
- EXISTING GRADE
- ORIGINAL GRADE
- OHW (18.0')
- OLW (6.2')
- DLW (3.0')

FIGURE 3

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

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Portland Parks and Recreation
DAN SALTZMAN, Commissioner
ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
EXISTING RAMP PROFILE
Portland, Oregon
PROJECT MANAGER GREG REID
DATE 03-21-2012 SCALE AS SHOWN DRAWN BY JWB SECTION

REVISIONS

DATE	DESCRIPTION	BY

SHEET 3 OF 7

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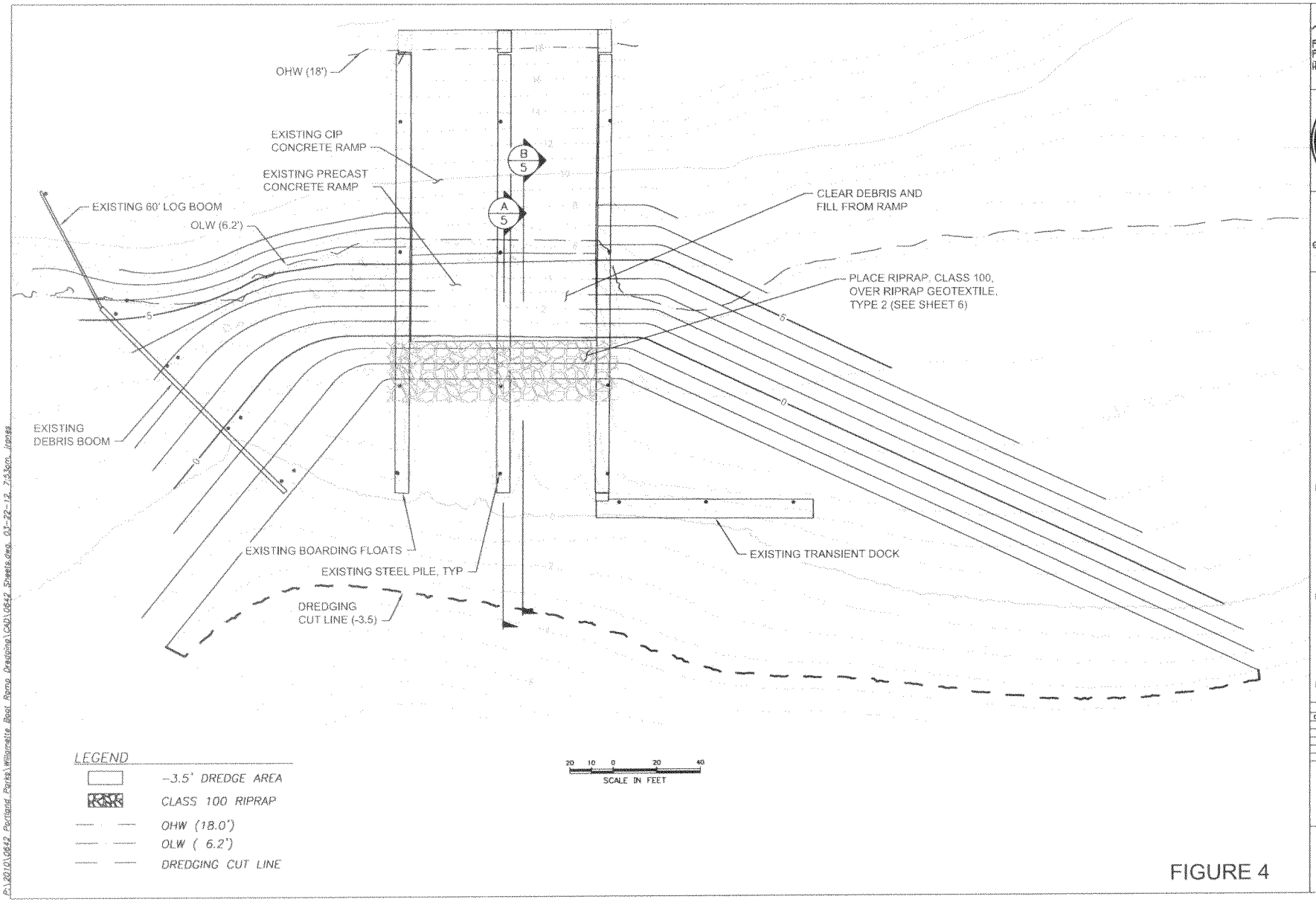

FIGURE 4

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

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Portland Parks and Recreation
DAN SALTZMAN, Commissioner
ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
SITE PLAN

Portland, Oregon
PROJECT MANAGER: GREG REID
DATE: 03-27-2012 SCALE: AS SHOWN DRAWN BY: JWB SECTION:

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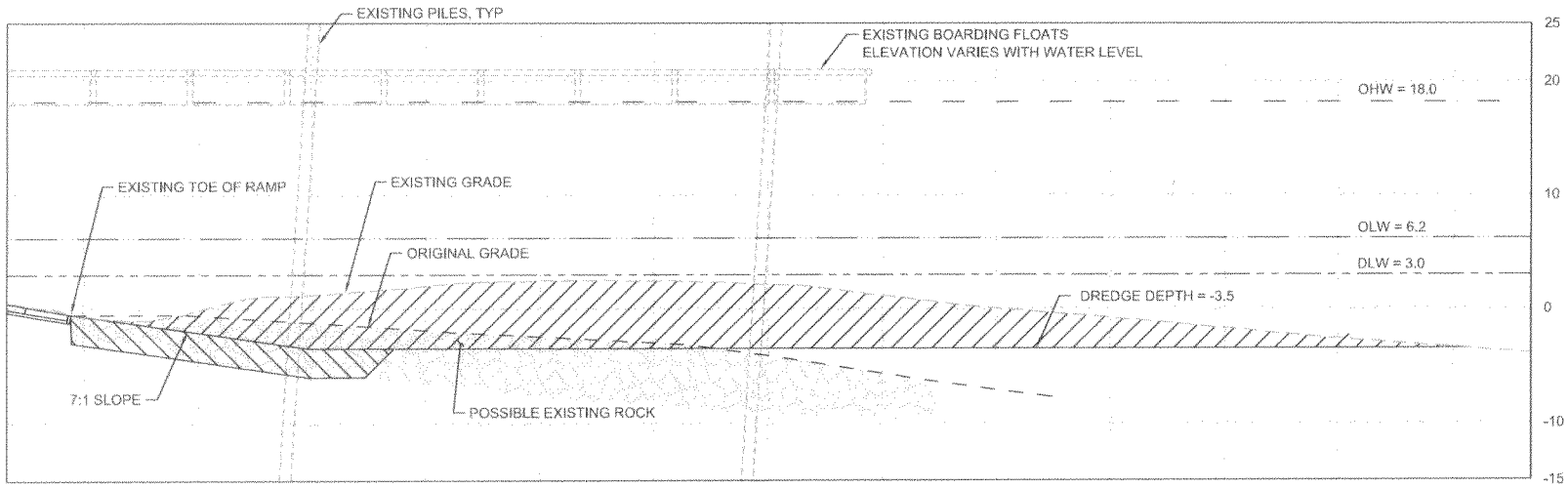
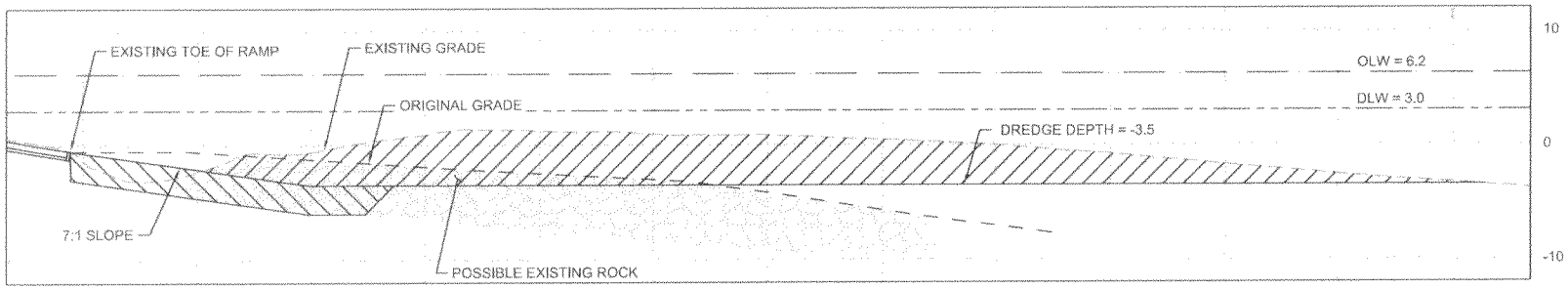


SECTION A

5 2.5 0 5 10
SCALE IN FEET



SECTION B

5 2.5 0 5 10
SCALE IN FEET

NOTES

1. DREDGE AREA MAY CONTAIN EXISTING ROCK THAT MAY REQUIRE EXCAVATION DEPENDING ON DREDGE EQUIPMENT USED.
2. INVESTIGATE EXISTING MATERIALS WITHIN EXCAVATION AREA, NOTIFY CITY OF FINDINGS AND OBTAIN APPROVAL BEFORE PROCEEDING WITH EXCAVATION OF EXISTING ROCK BELOW DREDGE DEPTH.

LEGEND

- DREDGE AREA (SEE NOTE 1.)
- EXCAVATION AREA (SEE NOTE 2.)
- EXISTING ROCK
- OHW (18.0')
- OLW (6.2')
- DLW (3.0')
- EXISTING GRADE
- ORIGINAL GRADE

FIGURE 5

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

CITY OF PORTLAND OREGON 1851

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Portland Parks and Recreation
DAN SALTZMAN, Commissioner . ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
DREDGING & EXCAVATION SECTIONS
Portland, Oregon
PROJECT MANAGER: GREG REID
DATE: 03-21-2012 SCALE: AS SHOWN DRAWN BY: JWB SECTION:

REVISIONS

DATE	DESCRIPTION	BY

SHEET 5 OF 7

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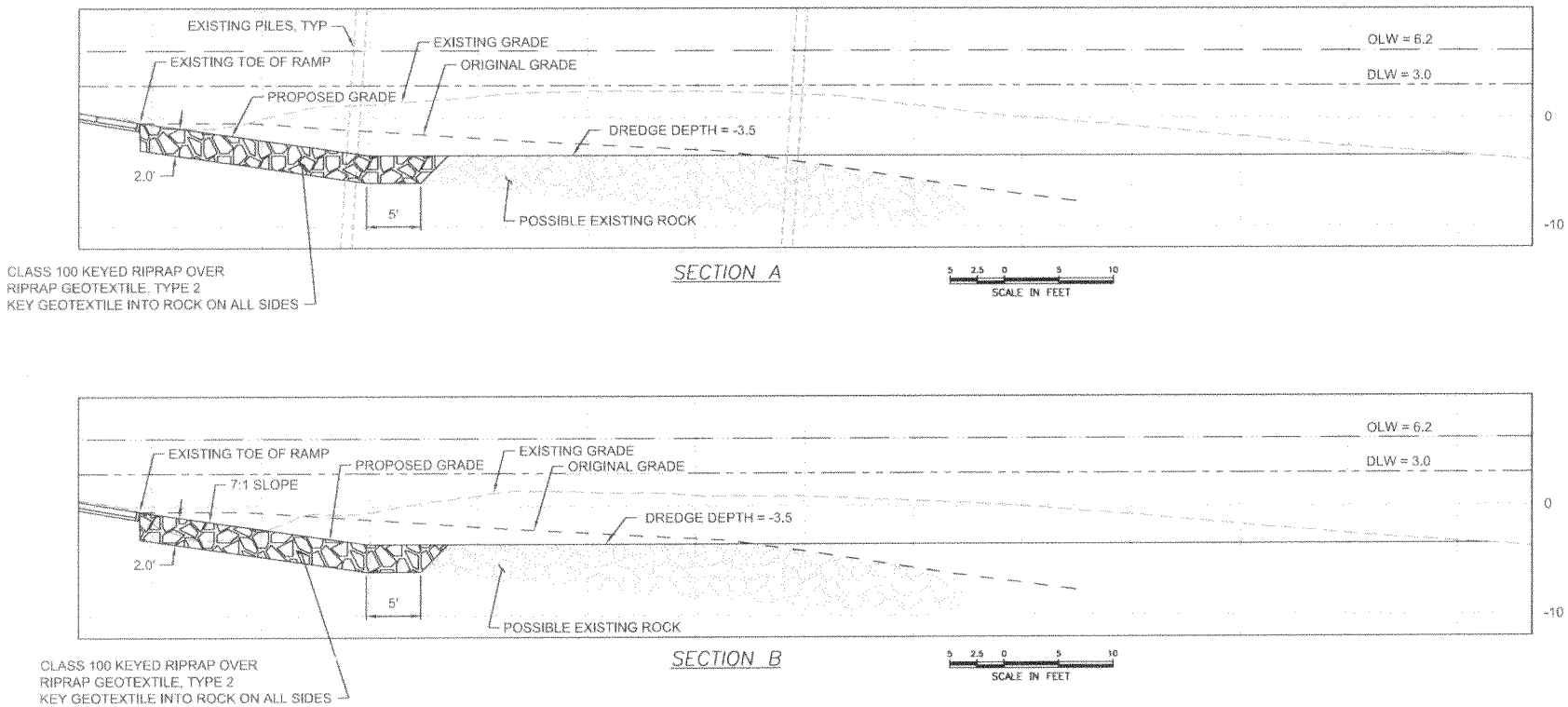

LEGEND

- EXISTING ROCK
- RIPRAP, CLASS 100
- OHW (18.0')
- OLW (6.2')
- DLW (3.0')
- EXISTING GRADE
- ORIGINAL GRADE

FIGURE 6

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

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Portland Parks and Recreation
DAN SALTZMAN, Commissioner . ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
PROPOSED SECTIONS

Portland, Oregon
PROJECT MANAGER: GREG REID
DATE: 03-21-2012 SCALE: AS SHOWN DRAWN BY: JWB SECTION:

REVISIONS

DATE	DESCRIPTION	BY

SHEET 6 OF 7

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1. MAINTAIN AND PROTECT STORAGE AREA AS NEEDED. CONTRACTOR TO DETERMINE AREA NEEDED. LOCATE A MINIMUM OF 300' FROM OHW.

2. INSTALL AND MAINTAIN BIOFILTER ALONG DOWN SLOPE SIDES OF STORAGE AREA. SEE RD 1030.

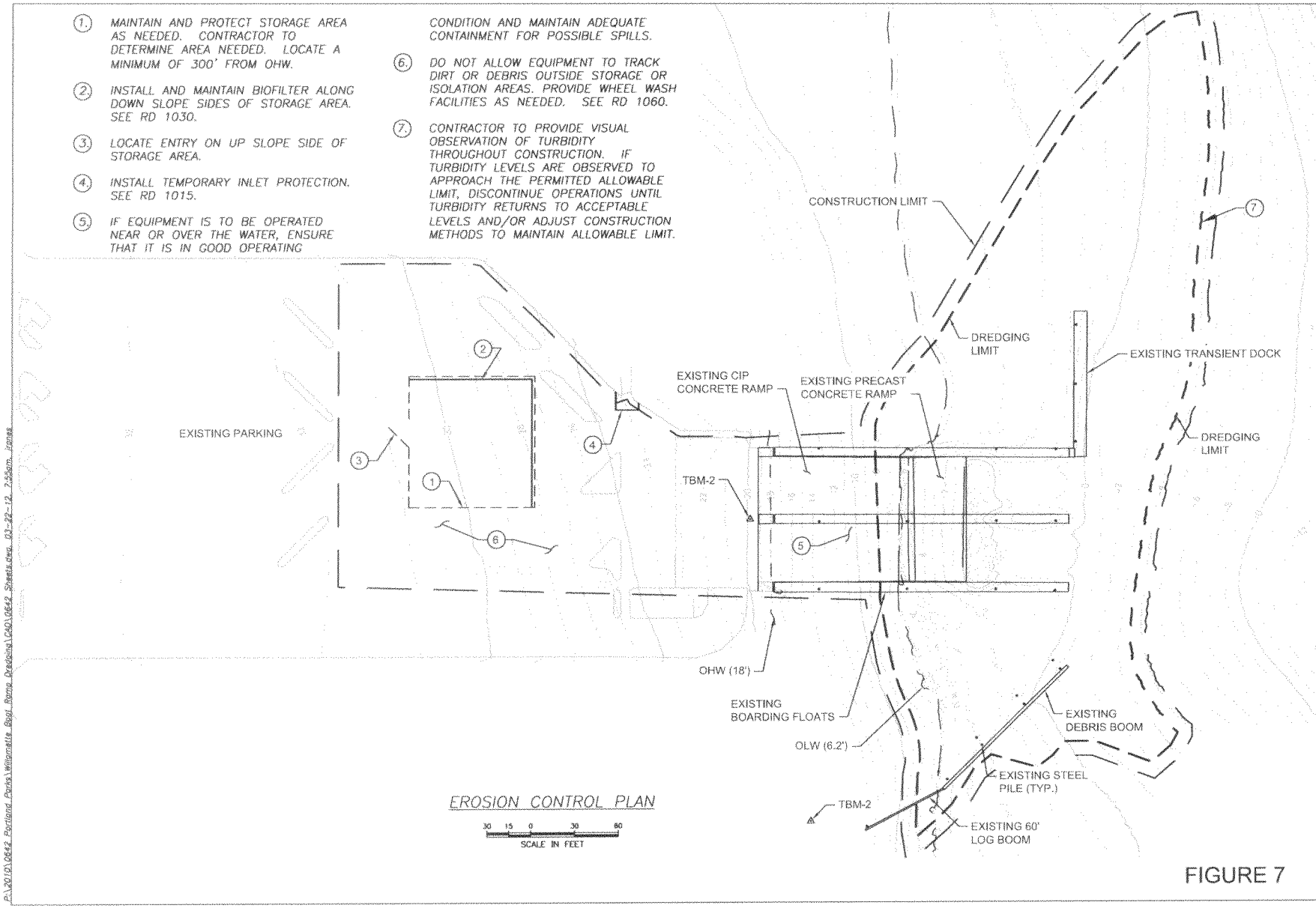
3. LOCATE ENTRY ON UP SLOPE SIDE OF STORAGE AREA.

4. INSTALL TEMPORARY INLET PROTECTION. SEE RD 1015.

5. IF EQUIPMENT IS TO BE OPERATED NEAR OR OVER THE WATER, ENSURE THAT IT IS IN GOOD OPERATING CONDITION AND MAINTAIN ADEQUATE CONTAINMENT FOR POSSIBLE SPILLS.

6. DO NOT ALLOW EQUIPMENT TO TRACK DIRT OR DEBRIS OUTSIDE STORAGE OR ISOLATION AREAS. PROVIDE WHEEL WASH FACILITIES AS NEEDED. SEE RD 1060.

7. CONTRACTOR TO PROVIDE VISUAL OBSERVATION OF TURBIDITY THROUGHOUT CONSTRUCTION. IF TURBIDITY LEVELS ARE OBSERVED TO APPROACH THE PERMITTED ALLOWABLE LIMIT, DISCONTINUE OPERATIONS UNTIL TURBIDITY RETURNS TO ACCEPTABLE LEVELS AND/OR ADJUST CONSTRUCTION METHODS TO MAINTAIN ALLOWABLE LIMIT.



EROSION CONTROL PLAN

30 15 0 30 60
SCALE IN FEET

FIGURE 7

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

CITY OF PORTLAND, OREGON 1851

exeltech

Portland Parks and Recreation
DAN SALTZMAN, Commissioner
ZARI SANTNER, Director

WILLAMETTE PARK BOAT RAMP REPAIR
EROSION CONTROL PLAN

Portland, Oregon
PROJECT MANAGER: GREG REID
DATE 03-21-2012 SCALE: AS SHOWN DRAWN BY: JWB SECTION

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SHEET 7 OF 7

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