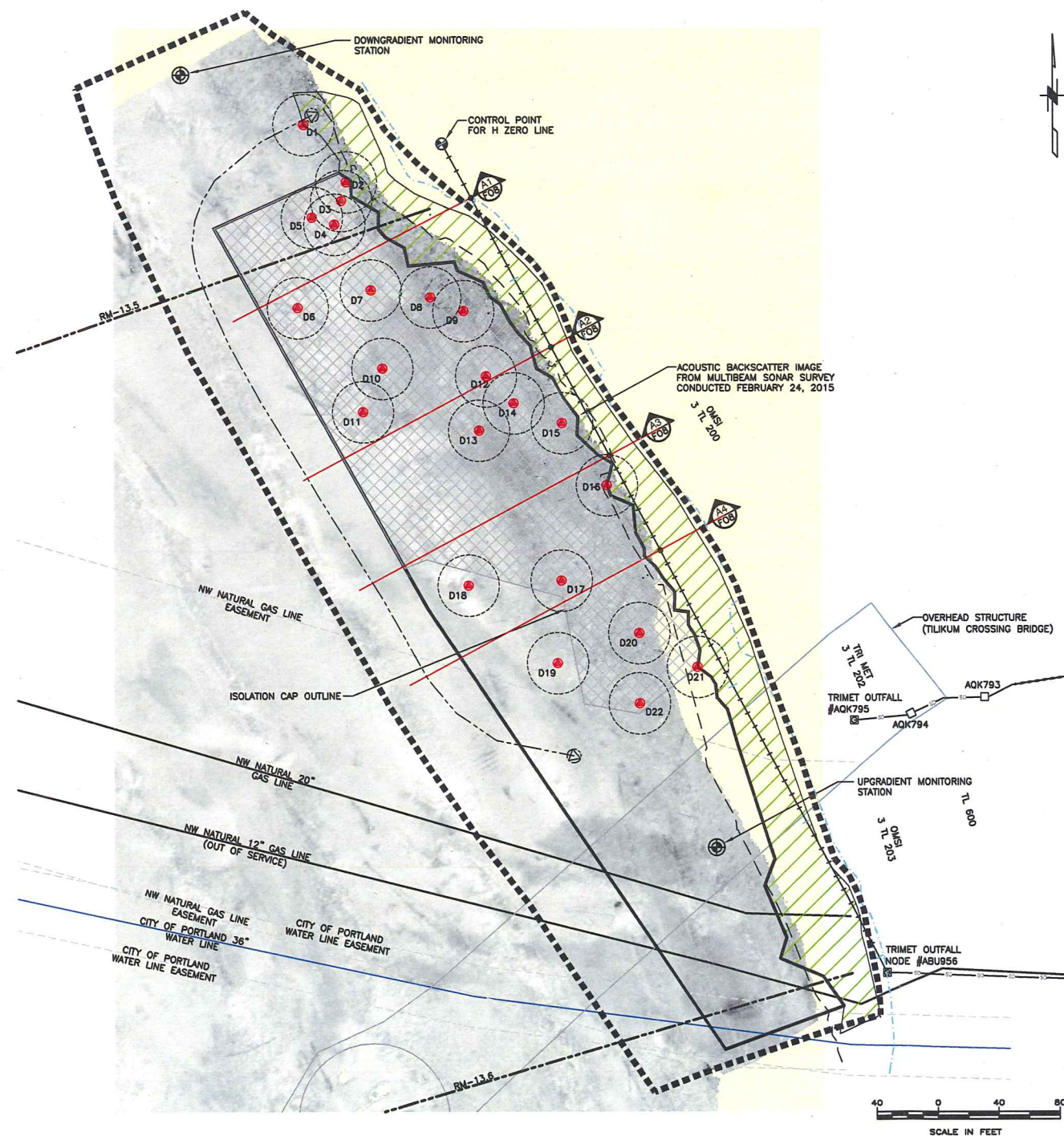


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NOTES:

- CONTROL POINTS SHALL BE ESTABLISHED BEFORE BEGINNING DEBRIS REMOVAL CONSTRUCTION ACTIVITIES.
- ENGINEERING CONTROLS, INCLUDING WATER MONITORING STATIONS AND BOOMS, SHALL BE INSTALLED BEFORE BEGINNING DEBRIS REMOVAL ACTIVITIES.
- THE CONTRACTOR SHALL INSPECT THE BOOM DAILY DURING DEPLOYMENT AND SHALL REMOVE ANY DEBRIS FROM BEHIND THE BOOM BEFORE THE BOOM IS REMOVED FROM THE WATER.
- THE CONTRACTOR SHALL REMOVE ALL ITEMS. THE LOCATIONS OF THE ITEMS IDENTIFIED IN TABLE 1 SHOULD BE CONSIDERED APPROXIMATE AND ARE BASED ON A DIVER DEBRIS SURVEY CONDUCTED DURING FIRST QUARTER 2015.
- THE CONTRACTOR SHALL SELECT APPROPRIATE REMOVAL EQUIPMENT WITH SUFFICIENT REACH AND MANEUVERABILITY BASED ON THE SIZE AND TYPE OF DEBRIS PRESENT. IN SOME CASES, MATERIAL MAY NEED TO BE REMOVED BY HAND BY DIVERS TO MINIMIZE THE POTENTIAL FOR SEDIMENT RE-SUSPENSION DURING REMOVAL.
- ALL ITEMS REMOVED SHALL BE CONTAINED IN A WATERTIGHT VESSEL OR BARGE FOR TRANSPORT TO SHORE FOR DISPOSAL OR SALVAGED.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES THROUGHOUT CONSTRUCTION ACTIVITIES.
- SEE CONTRACT DOCUMENTS FOR DEBRIS DISPOSAL/SALVAGE REQUIREMENTS. ALL DEBRIS DISPOSAL SHALL BE CONDUCTED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL RULES, AND REGULATIONS AND PERMIT REQUIREMENTS.

LEGEND:

- CONTROL POINT
- ⊙ GROUND SHOT NORTHING, 678514, EASTING, 7646913, NAVD83 14
- RIVER MILE (RM)
- ⊠ DISCHARGE POINT
- △ CAP TRANSECTS
- STORM DRAIN
- ORDINARY LOW WATER
- ORDINARY HIGH WATER
- TILKUM CROSSING BRIDGE ALIGNMENT
- RIP-RAP (EXISTING)
- STUDY AREA
- PROJECT WORK LIMITS
- TEMPORARY FLOATING BOOM (LOCATION APPROXIMATE)
- ⊠ TARGET AREA (ISOLATION CAP)
- DEBRIS/OBJECT NUMBER AND DIVER SURVEY AREA
- 3 TL 200 TAX LOT
- TAX LOT BOUNDARIES

OBJECT NUMBER	EASTING (ft)	NORTHING (ft)	ITEM DESCRIPTION	NOTES
D1	7646823	678526	Delineation of Rip-Rap.	NO DEBRIS IDENTIFIED
D2	7646850	678489	Rocky and sandy/silty river bottom at NE cap boundary.	NO DEBRIS IDENTIFIED
D3	7646847	678477	Several angular large rocks.	LEAVE IN PLACE
D4	7646843	678461	Large vertical relief of some rock features dropping multiple feet and some large woody debris (>12 in. diameter logs).	
D5	7646828	678466	Some logs/large woody debris on river bottom.	
D6	7646819	678407	Large woody debris and branches stacked multiple feet high in some places (2-4 ft.).	
D7	7646866	678419	Two large rocks and large woody debris.	
D8	7646905	678414	Rocky sandy/silty bottom. Large rocks stacked 1-2 ft. high and some large woody debris. A log protruding at a 45 degree angle from the river bottom. Item appears to be randomly stacked logs and not a fixed structure (such as a piling).	
D9	7646927	678405	Large rocks on bottom, large rectangular cement blocks and some wood debris observed on channel-side of target.	
D10	7646874	678368	Some woody debris, including one large log oriented perpendicular to channel. A 1 in. steel cable hooked by a boat anchor is present at this location.	
D11	7646881	678340	Significant large woody debris, large stacked logs. 1 in. choker cable for timber within the logs.	
D12	7646941	678363	Exposed cable structure (1 in. diameter) appears to be entering/existing river sediment at this location at mid water column (~7 ft.), and river bottom (~11 ft.).	
D13	7646937	678328	One linear buried feature (large log).	LEAVE IN PLACE
D14	7646959	678345	Large angular rock protruding from sediment. Large cinder-block, large concrete/steel pipe observed (12-25 in.) and some woody debris also observed on river bottom.	
D15	7646991	678332	Long linear feature (pipe) observed along sloped rip-rap surface and large solitary rock.	
D16	7647020	678292	Sandy and rocky river bottom.	NO DEBRIS IDENTIFIED
D17	7646990	678230	Some small rocks and small wood debris.	LEAVE IN PLACE
D18	7646988	678176	Large rocks and significant woody debris (branches) on river bottom, including one large, long piece of wood observed.	
D19	7646930	678227	Stacks of branches and large logs observed (2-4 ft.).	
D20	7647041	678196	Bottom generally flat silty/sandy surface with some rocks and small wood debris, includes one large log.	
D21	7647079	678174	Delineation of Rip-Rap.	NO DEBRIS IDENTIFIED
D22	7647041	678150	Rocky/sandy bottom. Branches (small wood debris).	

NOTE: ACTUAL DEBRIS/OBJECTS MAY VARY. LARGE WOODY DEBRIS IS >12 IN. DIAMETER. LARGE ROCKS PROTRUDE >12 IN. ABOVE THE RIVER BOTTOM.

PRELIMINARY NOT FOR CONSTRUCTION		JOB No. 25698205	DESIGNED: HWN	PROJ. ENGINEER: HWN		Portland General Electric	RIVER MILE 13.5, 90% SEDIMENT CAP DESIGN	DRAWING NUMBER: F05	
		SCALE: AS NOTED	DRAWN BY: BJR	APPROVED BY: HWN				CAD FILE NUMBER:	
No.	DATE	BY	CHECKED BY: BG	DATE: MAY 29, 2015	Portland, Oregon		PROPOSED DEVELOPMENT SITE PLAN DEBRIS REMOVAL PLAN		SHEET: 5 OF 11
REVISION									REV.