

PIONEER DAILY FIELD REPORT

Page 2 of 5 for 4/29/17

Date: 4/29/17 Site Location: East Bay parcels 2/3 Site Arrival Time: 7:10 am Site Departure Time: 3:00pm

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE

NOTES ON WORK COMPLETED

Other field sheet wet/drying off, starting new one

8:20 Returned to trailer after site walk and taking photos. Raining substantially now. May need to dry off / take down dust monitors.

All soil pile (stockpile) covers are intact / keeping off rain for now. Western excavation DPO4, which was already filled with water earlier this week, is full of water. Tyson said he'll help keep an eye on it. Pooling / puddles forming along western edge (Jefferson St.). Substantial concrete foundation was discovered yesterday in catch basin pipe trench is SE portion of site - will require specific type of excavator equipment.

8:47 Unit #1 retrieved from crewmember

8:55 Units #2 and #3 removed from N/S fences due to rain.

9:50 Large excavator with jack-hammer-type function delivered to go through concrete foundation in catch basin piping area. IO crew put up plastic liner along fence to help mitigate dust leaving site from concrete jack hammering.

10:00 Crew began excavating/drilling through concrete. Dust observed. Since not raining going to put wets out for the time being. Crewmember is utilizing water truck and hose.

10:20 Dust wets put onto fences (only sprinkling rain/light shower):
 Unit #1: North fence ~20ft west of 1982 fill boundary line.
 Unit #2: Across Children's Museum intersection of Olympia Ave/Martha Dr, directly across from crosswalk.
 Unit #3: South fence adjacent to fence dust line, across State Ave. from Spoon Auto Parts. (East of Cherry St.)

Wind to North/NW.

11:20 Crew continuing to excavate/jack hammer concrete foundation while piling concrete and hosing to prevent dust.

SIGNATURE: Hart Miller

DATE: 4/29/17

page > 04 > for 7/24/17

PIONEER DAILY FIELD REPORT

Date: 9/29/17 Site Location: East Bay Parcels 2/3 Site Arrival Time: 7:10 am Site Departure Time: 3:00 pm

WEATHER
TEMPERATURE
WIND

Clear Sun	late afternoon	Overcast	Drizzle	early afternoon	Rain	Snow
To 32		32-50	50-70		70-85	85 Up
Calm		Med.	Strong		Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE

NOTES ON WORK COMPLETED

12:15 pm Removed units #1 and #2 from North fence line since both were getting wet and more rain is forecast. Left Unit #3 on Southern fence line near concrete action for now since less wet (drained it off). Wind to N/NW.

12:40 Some cloud breaks, less rain

IO Traffic control personnel has been on-site (at west construction entrance) all day to help deliveries of rock go smoothly.

2:40 Dust mon. Unit #3 removed from South fence line. Sunny now. Trucks still delivering more rock.

IO crew has covered excavated soil piles from SE area catch basin/pipe soil work.

SIGNATURE:

DATE:

9/29/17

PIONEER DAILY FIELD REPORT

Date: 10/2/17 Site Location: East Bay Parcel 2/3 Site Arrival Time: 7:10 am Site Departure Time: 3:15 pm

WEATHER
TEMPERATURE
WIND

Clear Sun To 32	afternoon ←	Overcast 32-50	morning →	Drizzle 50-70	afternoon	Rain 70-85	Snow 85 Up
Calm	morning →	Med.	afternoon	Strong		Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather Matherson	PIONEER	7:10 - 8:15 / 2:30 - 3:15
IO crew	IO ES	
Tyson Carpenter	Part of Olympia	

NOTES ON WORK COMPLETED

7:15 am Checked batteries and calibrated dust monitors
 7:35 am Dust mon. Unit #2 put on Northern fence across Olympia Ave. from Eastern part of Olympia Ave. / Martha Dr. intersection. Morning fog, calm / not much wind at all.
 7:40 am Dust mon. Unit #1 placed on Northern fence across Olympia Ave. from Children's Museum (straight across from "bike lane" sign). North of gravel pile / moving of gravel operators.
 7:45 am Checked on excavations and covered soil piles during site walk. Excavations look the same (no change to water levels); piles still covered - some pooling now on top of liners (rain water). Took photos of sustained pooling along Western fence.
 7:50 am Unit #3 placed on Southern fence, across State Ave. from NW section of State Ave. / Cherry St. intersection.
 → Primary activities: continuing on catch basin / piping work in SE portion of site. Spreading of gravel from large piles in SW portion of site. Crew repairing 1982 boundary fence (orange fencing) near catch basin work.
 8:15 am Left ~~site~~ site for the morning.
 2:30 pm Returned to site to pick up dust monitors. Clear / sunny.
 2:40 pm Unit #2 retrieved from N. fence. Wind to the south (noticeable).
 2:43 pm Unit #1 retrieved from N. fence.
 2:53 pm Unit #3 retrieved from S. fence.
 → Main activities / changes at site: catch basin / pipe routing work continues at southern part of site. Gravel for cover / cap over liner has been expanded (see photos).

SIGNATURE: Heather Matherson

DATE: 10/2/17

PIONEER DAILY FIELD REPORT

Date: 10/3/17 Site Location: East Bay Parcels 2/3 Site Arrival Time: 7:25am Site Departure Time: 3:15pm

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

← afternoon
morning fog
→ afternoon

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather Matheson	PIONEER	7:25-8:25 / 2:50-3:15
IO crew	IO ES	
Tyson Carpenter	Port of Olympia	

NOTES ON WORK COMPLETED

7:25am Arrived at site foggy / no wind. Changed dust monitor batteries and calibrated the units.

7:51am Dust mon. Unit #1 placed on North fence line, east of Marine Dr. and Olympia Ave. intersection ~ 55 ft west of 1182 fill boundary line. Maybe due to fog → concentrations in the 0.5 mg/m³ (instantaneous) and 0.375 mg/m³ (TWA) range at startup.

7:56am Dust mon. Unit #2 placed on North fence line across Olympia Ave from the Children's Museum / "bike lane" sign. Concentrations around 0.3 - 0.4 mg/m³ upon startup in fog.

8:07am Dust mon. Unit #3 placed on South fence line, across from Western side of State Ave. / Cherry St. intersection. Between catch basin / ~~soil~~ piping soil work and gravel pile movement.

8:10am Took a site walk, all excavations appear to be the same, no change to water levels.

→ Primary site activities: More rock deliveries, more soil work for catch basins/piping in SE part of site; more moving/spreading of gravel onto the pier in the western/southwestern part of site.

8:25am leaving site for the morning

2:50pm Returned to site to collect dust monitors.

2:57 / 2:58 / 3:02pm - Units 1/2/3 retrieved (respectively)

Observed: gravel cover has expanded and is ~ 1 ft thick in many sections in the SW/W part of the site; catch basin work seems essentially finished in SE part of site (filled in / covered with soil now).

3:15pm I left site but crew still doing some site cleaning / maintaining.

SIGNATURE: Heather Matheson

DATE: 10/3/17

PIONEER DAILY FIELD REPORT

Page 1 of 3 for 10/4/17

Date: 10/4/17 Site Location: East Bay Parcels 2/3 Site Arrival Time: 7:55am Site Departure Time: 4:45pm

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	(32-50) morning →	(50-70) afternoon	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather Matherson	PIONEER	7:55 - 4:45pm
IO Crew	IO ES	
Tony Bahnick	IO ES	
Tyson Carpenter	Post of Olympia	
Levi Fernandez	PIONEER	10:10 - 4:20pm

NOTES ON WORK COMPLETED

7:55am Arrived at site, unloaded equipment (extra equipment for soil sampling today). Calibrated dust monitors.
 → Was told by Tony that main activities for the day will be connecting SE catch basins/piping to storm drain system and continuing to spread/place gravel for cover. Not expecting rock delivered today.

8:34am ~~8:34~~ Dust mon. unit #1 placed on N. fence approximately 55 ft west of 1982 fill boundary line, across Olympia Ave. from eastern edge of Olympia Ave/Marble Dr. intersection.

8:38am Dust mon. Unit #2 placed on N. fence across Olympia Ave. from the Children's Museum and "bike lane" sign. No wind observed.

8:47am Dust mon. Unit #3 placed on S. fence across State Ave. from Spoon Auto Parts garage door opening. This location is between the gravel cover area and catch basin/piping connection work in the SE corner of the site.

9:00am Crew currently removing/stock piling concrete pieces from catch basin tie-in area (where will connect to street system at SE corner of site).

9:30 Began preparing for soil sampling of stock piles (warning of samples / how many jars and vials to set aside). Levi and Heather prepared labels / coolers / etc.

11:30 Mobilized sampling gear/supplies and decon. supplies, uncovered overburden stock piles, put on Tyvek as part of modified level D PPE. Began sampling DPO1 and then DPO6 overburden piles only (see other sampling notesheets). Waiting to sample MW24S overburden because IO crew will sort material first, putting geotechnically-unsuitable material into disposal/contaminated stock pile.

1:45 Decision by Tyson and Levi to dispose of MW24S overburden vs. segregating (since lots of that is considered unsuitable) - focus on characterizing for disposal. Levi and Heather continued sampling.

4:15 Collected dust monitors - IO soil-related work probably stopped ~3:30pm.
 4:30 Packed up / locked up site gate and left.

SIGNATURE: Heather Matherson

DATE: 10/4/17

PIONEER DAILY FIELD REPORT

Page 2 of 3 for 10/4/17

Date: 10/4/17 Site Location: East Bay Parcels 2/3 Site Arrival Time: _____ Site Departure Time: _____

WEATHER
TEMPERATURE
WIND

<u>Clear Sun</u>	Overcast	Drizzle	Rain	Snow
To 32	32-50	<u>50-70</u>	70-85	85 Up
<u>Calm</u>	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE

NOTES ON WORK COMPLETED

DP04 • 17' x 13' stockpile footprint [Overburden]
 • 1A Sample: west part of overburden pile (western 1/3, center/top of western 1/3), about 6 in. from surface, 11:45 am, soil moist, sandy gravel (avoiding gravel in sample)
 • 1B sample: mid point 6 in from surface, 11:52 am, moist sandy gravel
 • 1C Sample: east 1/3, 6 in from surface, 12:05 am moist, sandy gravel, 1C duplicate sample taken simultaneously

DP06 • 18' x 13' stock pile footprint [Overburden]
 • 1A Sample: gravelly sand, a little moist, about 6 in. below surface, western 1/3, 12:21
 • 1B Sample 12:31 (center/top of pile)
 • 1C Sample, 12:40 (eastern 1/3)

MW248 • 15' x 18' stock pile footprint [overburden]
 • Decision: (Tyson and Levi discussion) to treat all MW248 as soil to be disposed (both stock piles)

DP06 (contaminated pile) • 15' x 11' stock pile footprint [contaminated]
 • Composite samples "DP06SP-2"
 • 14:00 (approx. collection time)
 • Gravelly sand, slightly moist near top, saturated/in puddle at base of stock pile, wood debris mixed in

DP09 (contaminated pile) • 14' x 13' stock pile footprint [contaminated]
 • sandy gravel with some clay-like consistency moist silty soil
 • 14:32, composite samples

SIGNATURE: [Handwritten Signature]

DATE: 10/4/17

PIONEER DAILY FIELD REPORT

Page 3 of 3 for 10/4/17

Date: 10/4/17 Site Location: East Bay Parcels 2/3 Site Arrival Time: _____ Site Departure Time: _____

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE

NOTES ON WORK COMPLETED

MW243 (contaminated) • 18' x 15' stockpile footprint (contaminated)
 • Going to sample 2/5 (of composite samples)
 from upper ~4 ft material (previously "overburden" pile) and
 3/5 from contaminated/darker material pile for representative pile
 • 15:10 Sample time, composites ~~MW243~~ "MW243SP-1"
 • Excavation:
 0-3.5' sandy gravels
 3.5-6.0' sandy gravels w/ concrete and wood debris
 and rebar and conduit wiring
 6.0-9.0' woody debris, predominantly wood shavings
 black color wood shavings (brown) closer
 to wood debris

SIGNATURE: *[Handwritten Signature]*

DATE: 10/4/17

PIONEER DAILY FIELD REPORT

Date: 10/24/17 Site Location: East Bay Parcel 2/3, 9 Site Arrival Time: 9:40 am Site Departure Time: 11:15 am

WEATHER
TEMPERATURE
WIND

Clear Sun	<u>Overcast</u> fog	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
<u>Calm</u>	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather Mahersan IO Crew	PIONEER IOES	9:40 am - 11:15 am

NOTES ON WORK COMPLETED

9:40 am Arrived at site wearing PPE parked using pass for designated spots
 9:45 am Called Levi to discuss 'stockpile sign' procedure (not going to remove existing white "unclassified" soil signs duct taped to mess, just going to put new signs over those (don't want to risk tearing covers/liners))
 9:50 am Went through Tailgate Safety Meeting form
 9:55 am Prepared signs to go on stockpiles (Class A/Class B)
 10:00 am Walked west to Parcel 9 to talk to crew and alert them of my activities at parcels 2/3.
 Crew said they didn't see any concerning sheeps or contam-
 inated-looking soil at/around catch basin in Parcel 9; it is now covered up as part of soil work and grading.
 10:20 am Put Class A and Class B signs on designated stock-
 pile covers
 DPO4 overburden → Class A
 DPO6 overburden → Class A
 M245 overburden → Class B (disposal only)
 11:00 am Packed up to leave site (collected soil sampling gear left in construction trailer from 10/4/17)

SIGNATURE: _____

Heather Mahersan

DATE: _____

10/24/17



Appendix C

Photographic Log

Photographic Log

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Photographic Log

Photo No. 1: High Visibility Construction Fencing

Date: 10/9/17

Direction Photo Taken: West

Description: High visibility, temporary construction fencing separated the area to receive the new soil cover from the area with clean 1982 fill material in place. (Parcels 2/3)



Photo No. 2: Wheel Wash (1)

Date: 9/15/17

Direction Photo Taken: Northeast

Description: Wheel wash for Parcels 2/3, built into western construction entrance/exit.



Photographic Log

Photo No. 3: Wheel Wash (2)

Date: 9/13/17

Direction Photo Taken: East

Description: Wheel wash switched on / prepared for a truck to drive through (Parcels 2/3).



Photo No. 4: Construction Entrance (1)

Date: 9/15/17

Direction Photo Taken: West

Description: Jefferson Street construction entrance/exit for Parcels 2/3.



Photographic Log

Photo No. 5:
Construction Entrance
(2)

Date: 10/12/17

**Direction Photo
Taken:** Southwest

Description:
Jefferson Street
construction
entrance/exit for
Parcels 6/7.



Photo No. 6: Silt Fence

Date: 9/19/17

**Direction Photo
Taken:** West

Description:
A silt fence positioned
along the southern
fence line of Parcels
2/3 in an area with
pooling water.



Photographic Log

Photo No. 7: Dust Monitor

Date: 9/19/17

Direction Photo Taken: West

Description: One of the dust monitors used during potentially dust-generating construction activities (this one was positioned on the west fence line of Parcels 2/3).



Photo No. 8:
Excavation Location Stake

Date: 9/19/17

Direction Photo Taken: South

Description: A stake to mark the center of excavation DP06/SVP-2SO.



Photographic Log

Photo No. 9: Staked Excavation Location (With Asphalt Pad)	
Date: 9/19/17	
Direction Photo Taken: South	
Description: Prior to excavating DP06/SVP-2SO, this was the existing surface with a partial asphalt pad left in place over the designated excavation area (rest of the surrounding asphalt had been removed).	

Photo No. 10: Excavated Asphalt and Concrete Piles	
Date: 9/19/17	
Direction Photo Taken: South	
Description: Separate piles of excavated asphalt and concrete to be hauled/disposed of (Parcels 2/3).	

Photographic Log

Photo No. 11: Grubbing Vegetation	
Date: 9/19/17	
Direction Photo Taken: Southeast	
Description: Construction crewmembers grubbing vegetation from the existing engineered drainage trenches (Parcels 2/3).	

Photo No. 12: Filled-in Drainage Trench	
Date: 9/21/17	
Direction Photo Taken: Southwest	
Description: An existing engineered drainage trench was filled in with quarry spall rock to support the upcoming soil cover (Parcels 2/3).	

Photographic Log

<p>Photo No. 13: Soil Stockpile Base Preparation</p>	
<p>Date: 9/21/17</p>	
<p>Direction Photo Taken: South</p>	
<p>Description: Prior to excavating contaminated and overburden soil, stockpile areas were graded with berms as the perimeters.</p>	

<p>Photo No. 14: Beginning to Excavate DP04</p>	
<p>Date: 9/22/17</p>	
<p>Direction Photo Taken: Southwest</p>	
<p>Description: Beginning to excavate at the DP04 location (Parcel 3).</p>	

Photographic Log

Photo No. 15: DP04 Excavation	
Date: 9/22/17	
Direction Photo Taken: South	
Description: A concrete footer was discovered while excavating at DP04 (Parcel 3).	

Photo No. 16: Soil Sampling	
Date: 9/22/17	
Direction Photo Taken: Unknown	
Description: A representative from PIONEER taking a soil sample from excavated soil while wearing a Tyvek suit and Level D PPE (Parcel 3).	

Photographic Log

Photo No. 17: Uncovered Soil Stockpiles	
Date: 9/22/17	
Direction Photo Taken: West	
Description: Soil stockpiles from the DP06/SVP-2SO excavation prior to being covered. Soil was segregated (contaminated soil separate from overburden soil) and placed on impervious polyethylene liners.	

Photo No. 18: DP06/SVP-2SO Excavation	
Date: 9/22/17	
Direction Photo Taken: North	
Description: The open DP06/SVP-2SO excavation.	

Photographic Log

Photo No. 19: MW24S Excavated Debris (1)	
Date: 9/22/17	
Direction Photo Taken: East	
Description: Soil and debris excavated from MW24S.	

Photo No. 20: MW24S Excavated Debris (2)	
Date: 9/22/17	
Direction Photo Taken: West	
Description: Waterlogged debris excavated from MW24S. Berms and the impervious polyethylene liner kept potentially contaminated water contained.	

Photographic Log

Photo No. 21: MW24S Excavation	
Date: 9/22/17	
Direction Photo Taken: South	
Description: A concrete wall (part of a box-like structure) was encountered while excavating MW24S (Parcels 2/3).	

Photo No. 22: Covered Soil Stockpiles	
Date: 9/26/17	
Direction Photo Taken: West	
Description: Soil stockpiles from the DP04 excavation situated on an impervious polyethylene liner (not pictured) and covered with an impervious polyethylene liner.	

Photographic Log

Photo No. 23: Soil Stockpile Signage	
Date: 9/26/17	
Direction Photo Taken: North	
Description: The DP04 excavation's contaminated soil stockpile designated as "Class B Soil" – for disposal (Parcels 2/3).	

Photo No. 24: Installed Geotextile	
Date: 9/26/17	
Direction Photo Taken: West	
Description: The permeable geotextile is visible prior to the installation of 1 foot of soil cover (Parcels 2/3).	

Photographic Log

Photo No. 25: Aggregate Piles for Soil Cover	
Date: 10/2/17	
Direction Photo Taken: West	
Description: Stockpiled aggregate for the soil cover prior to installation (Parcels 2/3).	

Photo No. 26: Installing Soil Cover (1)	
Date: 10/2/17	
Direction Photo Taken: South	
Description: Installing the soil cover over the geotextile in Parcels 2/3.	

Photographic Log

Photo No. 27:
Installing Soil Cover (2)

Date: 10/10/17

Direction Photo Taken: Northwest

Description:
Installing/spreading the soil cover over the geotextile in Lot 1.



Photo No. 28:
Stormwater Routing (2)

Date: 10/6/17

Direction Photo Taken: Enter Text

Description:
Catch basin and stormwater piping installation prior to soil cover filling in the vicinity (Parcels 2/3).



Photographic Log

Photo No. 29: Stormwater Routing (3)	
Date: 10/2/17	
Direction Photo Taken: Southeast	
Description: Catch basin and stormwater piping installation in Parcels 2/3.	

Photo No. 30: Stormwater Routing (4)	
Date: 9/28/17	
Direction Photo Taken: West	
Description: Surveying catch basin elevation and alignment (Parcels 2/3).	


Photographic Log

<p>Photo No. 31: Concrete Obstruction during Stormwater Routing</p>	
<p>Date: 9/28/17</p>	
<p>Direction Photo Taken: East</p>	
<p>Description: An unforeseen concrete foundation obstruction discovered while digging the stormwater piping route in the southeast portion of Parcels 2/3.</p>	

<p>Photo No. 32: Hydraulic Hammering for Stormwater Routing</p>	
<p>Date: 9/29/17</p>	
<p>Direction Photo Taken: Southeast</p>	
<p>Description: An excavator with a hydraulic hammer was used to break through the concrete foundation obstructing the stormwater utility route in the southeast portion of Parcels 2/3. Construction crewmembers watered constantly to mitigate airborne dust.</p>	

Photographic Log

Photo No. 33: Stormwater Connection to City System	
Date: 10/4/17	
Direction Photo Taken: Unknown	
Description: Connection to existing City stormwater catch basin beneath sidewalk (Parcels 2/3).	

Photo No. 34: Stormwater Pipe Detectable Tape	
Date: 10/5/17	
Direction Photo Taken: Unknown	
Description: Storm drain piping being installed with detectable tape strip (Parcels 2/3).	

Photographic Log

Photo No. 35: Utility
Tops in Soil Cover

Date: 10/25/17

**Direction Photo
Taken:** Southeast

Description:
A newly-installed
stormwater catch basin
and existing utility
boxes are surrounded
by the new soil cover
(Parcels 2/3).

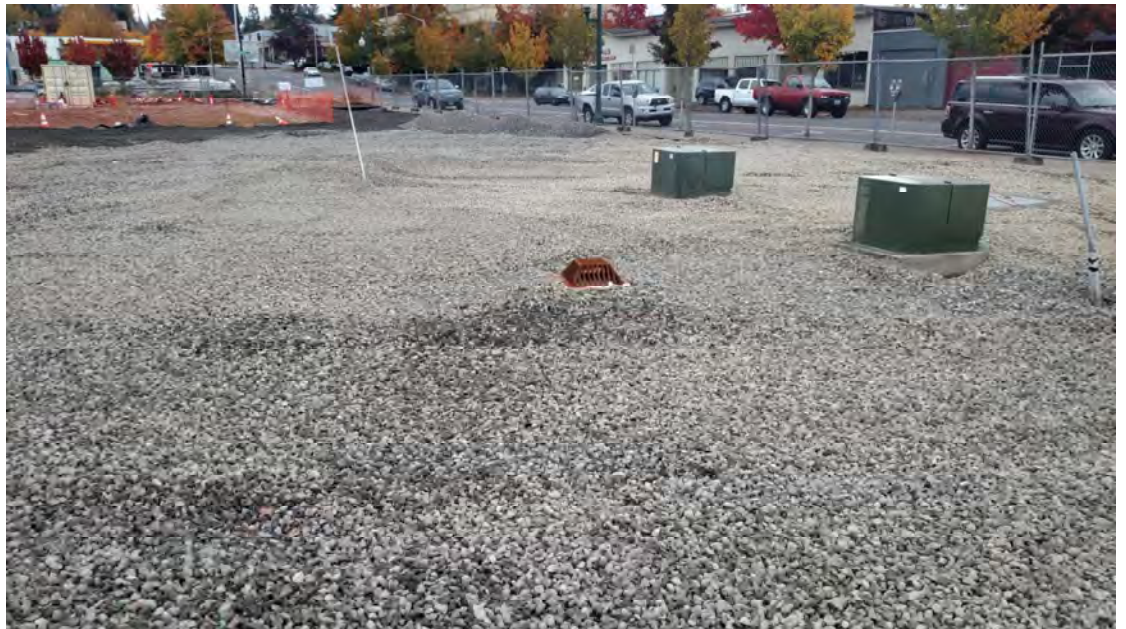


Photo No. 36: Grading
Soil Cover

Date: 10/26/17

**Direction Photo
Taken:** Northeast

Description:
A construction
crewmember working to
smooth the newly-
installed soil cover
surface (Parcel 9).



Photographic Log


Photo No. 37: Portion of Finished Soil Cover	
Date: 10/20/17	
Direction Photo Taken: Southeast	
Description: A view of the installed soil cover in Parcels 6/7. Staked elevation survey points are visible protruding from the cover.	

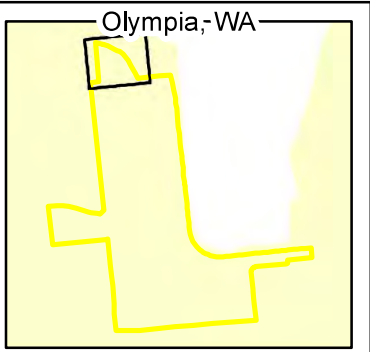
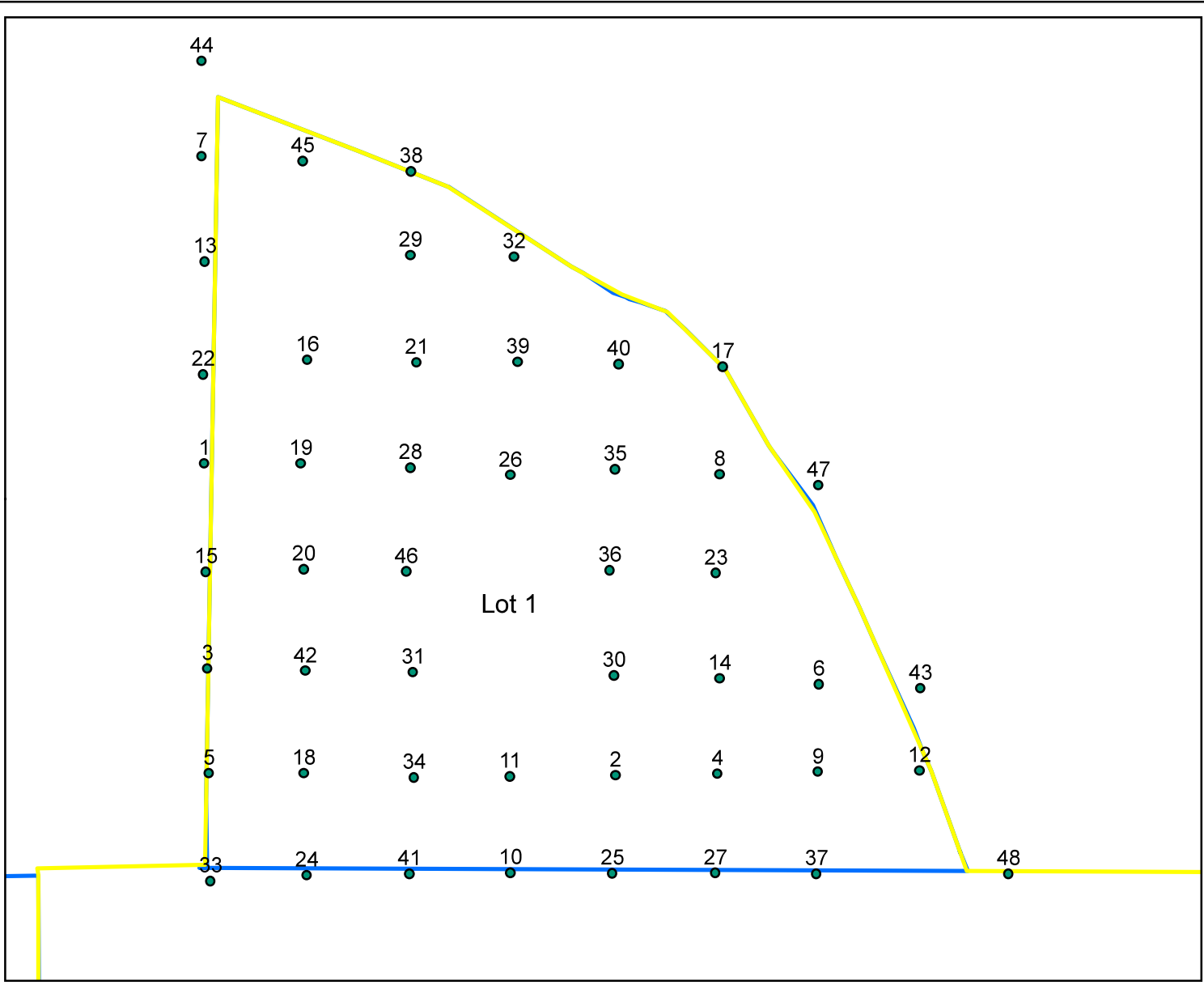
Photo No. 38: Parcels 2/3 Construction Aerial	
Date: 10/3/17	
Direction Photo Taken: Southwest	
Description: An oblique aerial view of Parcels 2/3 during construction activities.	

Appendix D

Record Drawings with Survey Documentation

Contents:

- **Record Drawings**
- **Soil Cover Elevation Figures**
- **Pre and Post-Soil Cover Installation Survey Documentation**

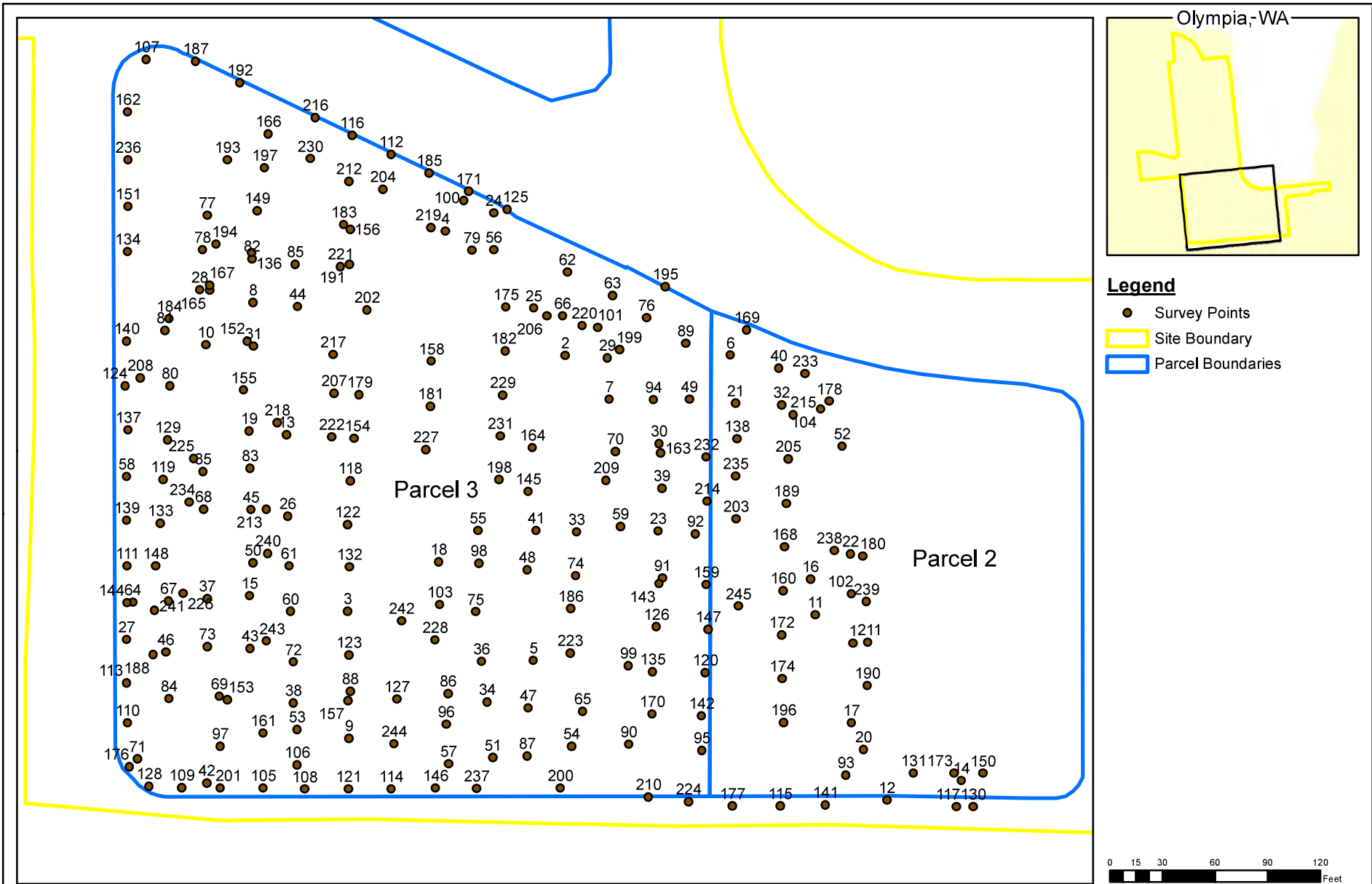


- Legend**
- Survey Points
 - Site Boundary
 - Parcel Boundaries



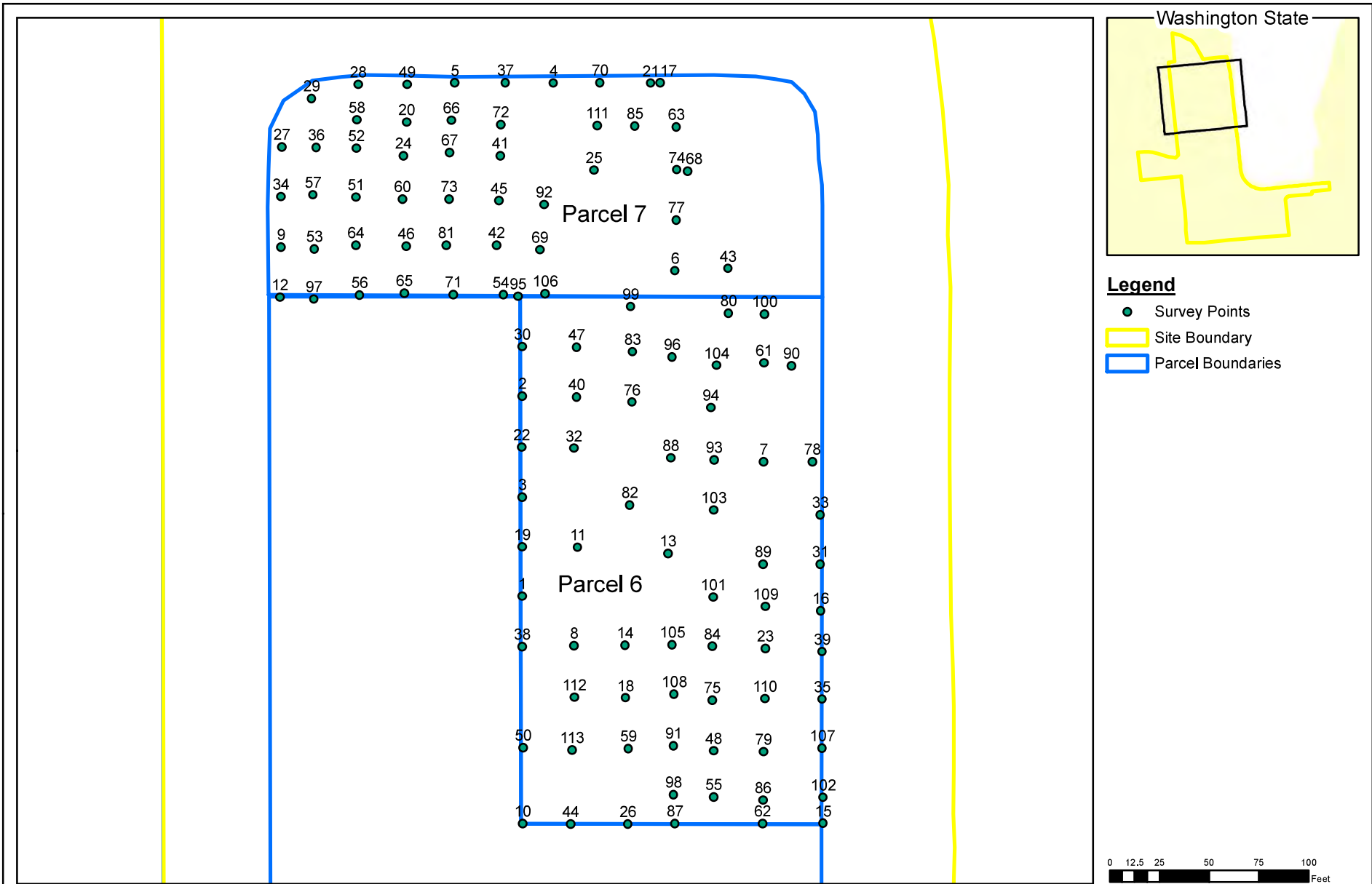
Lot 1 Survey Points
Cleanup Action Completion Report
East Bay Redevelopment Site

Figure D-1



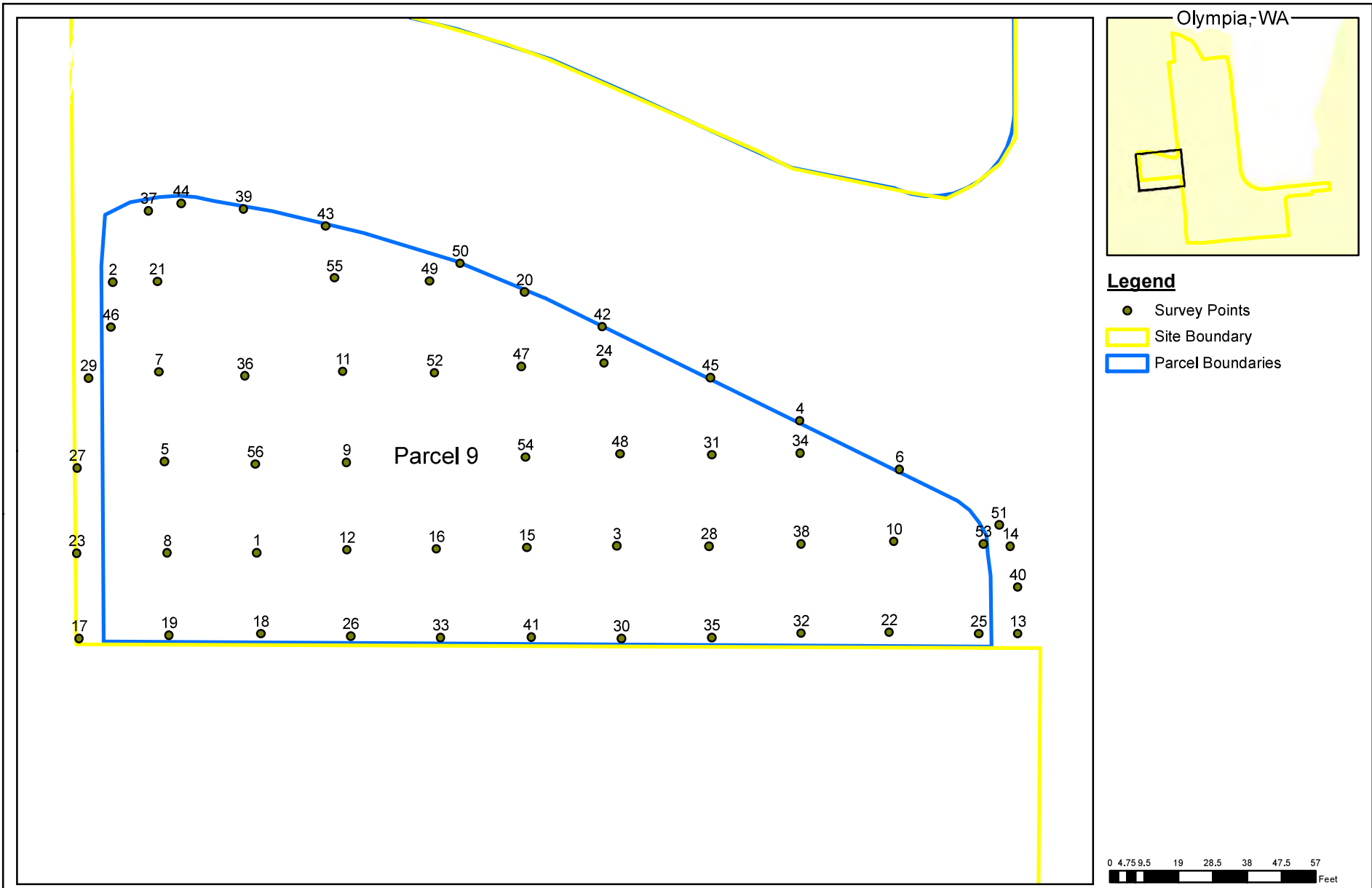
Parcel 2 and 3 Survey Points
Cleanup Action Completion Report
East Bay Redevelopment Site

Figure D-2



Parcels 6 and 7 Survey Points
Cleanup Action Completion Report
East Bay Redevelopment Site

Figure D-3

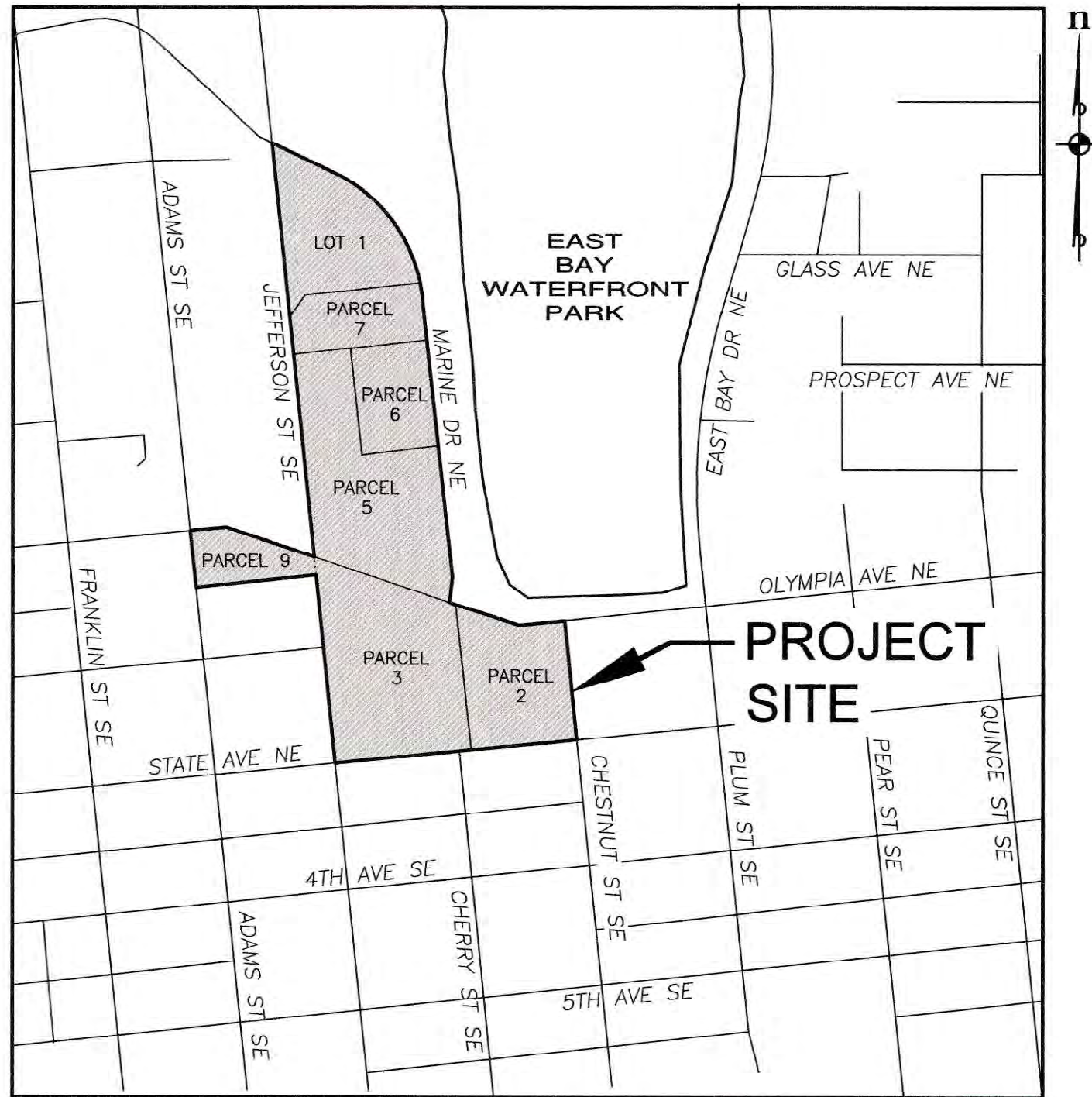


Parcel 9 Survey Points
Cleanup Action Completion Report
East Bay Redevelopment Site

Figure D-4

CONTRACT NO. 2017-1019

- SHEET 5 -
- SHEET 6 -
- SHEET 7 -
- SHEET 8 -
- SHEET 9 -
- SHEET 10 -
- SHEET 11 -



VICINITY MAP
NOT TO SCALE

BASIS OF BEARING

WASHINGTON COORDINATE SYSTEM NAD 83/91, SOUTH ZONE

BASIS OF VERTICAL DATUM:

LEGEND (EXISTING)

- STREET/TRAFFIC SIGN
- SANITARY SEWER CLEANOUT
- SANITARY SEWER STOP
- STORM DRAIN CATCHMENT
- STORM DRAIN STUB
- LUMINAIRE W/ARM
- GAS STUB MARKER
- GUY ANCHOR
- POWER POLE W/DROPPING
- POWER POLE
- FIBER OPTIC MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER STUB MARKER
- WATER METER
- MONITORING WELL
- OAK
- FOUND BRASS CAP
- FOUND CASIED MANHOLE
- FOUND REBAR & CAP
- SET HUB & TACK
- SET PK NAIL
- SOIL REMOVAL LOCATION
- PLACING SOIL COVER

ector
E.

actor shall obtain a

all call "One-Call" for

AND PROTECT IN
SANITARY SEWER
POSSIBLE
DISCHARGE.

APPROXIMATE
DP06/SVP-2S0 AREA OF
EXCAVATION, 4.5 FEET IN
DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

OLYMPIA AVE. NE

MW

MW

MW

INSTALL CONSTRUCTION
ENTRANCE/WHEEL WASH
(BMPs C105 AND C106)
SEE DETAIL ON SHEET 11

REMOVE EX.
POWER POLE, TYP.

APPROXIMATE MW24S AREA
OF EXCAVATION, 9 FEET IN
DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

APPROXIMATE DP04 AREA
OF EXCAVATION, 7 FEET IN
DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

PARCEL 3
(#66130000403)
2.70 AC

1,590 L.F., FILTER FABRIC
FENCE (BMP C233),
SEE DETAIL ON SHEET 11

CLEARING/COVER
LIMITS, TYP.

PARCEL 2
(#66130000402)
1.19 AC

MW

MW

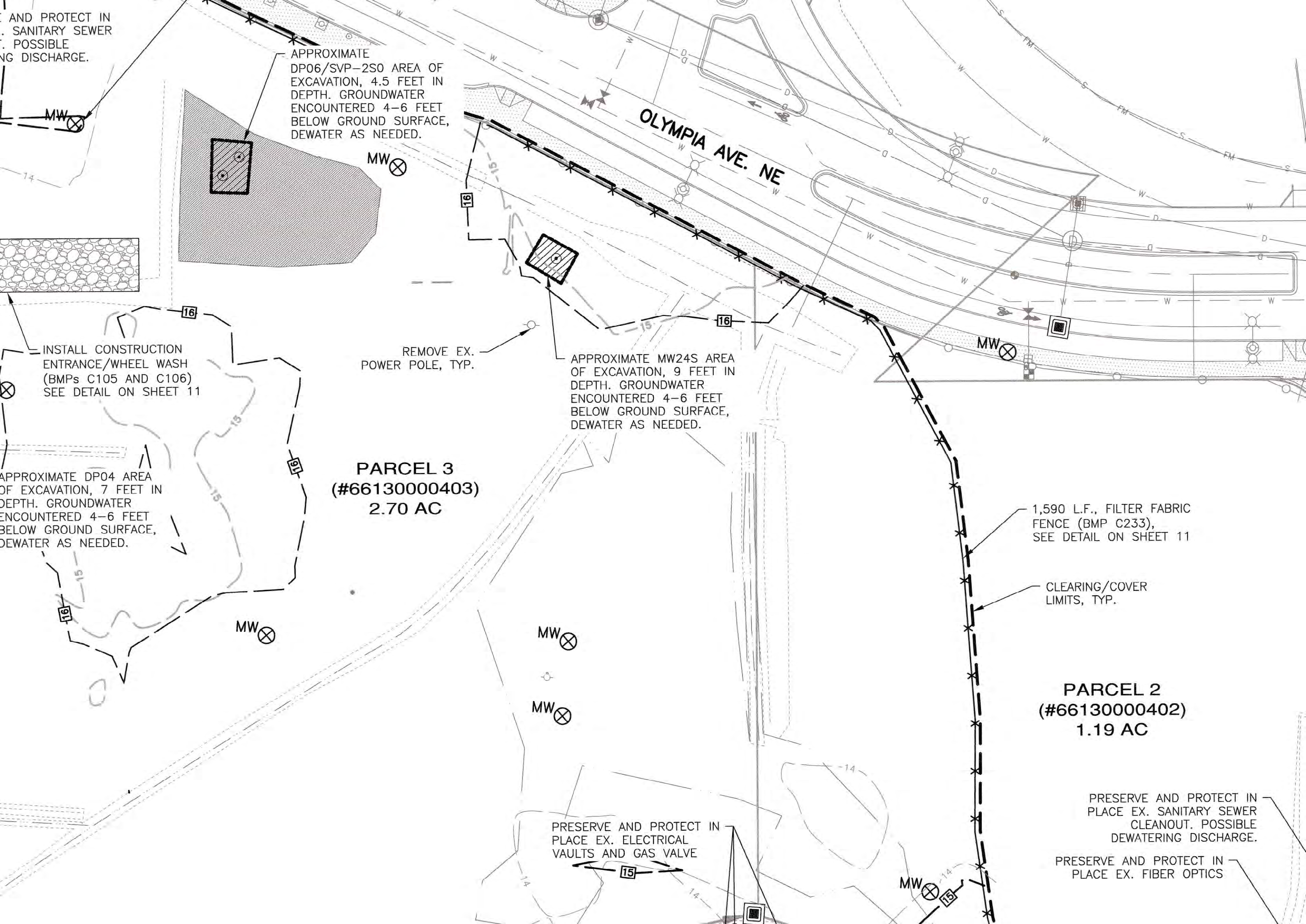
MW

PRESERVE AND PROTECT IN
PLACE EX. ELECTRICAL
VAULTS AND GAS VALVE

PRESERVE AND PROTECT IN
PLACE EX. SANITARY SEWER
CLEANOUT. POSSIBLE
DEWATERING DISCHARGE.

PRESERVE AND PROTECT IN
PLACE EX. FIBER OPTICS

MW



PARCEL 6
(#66130000406)
0.92 AC

#66130000100
±1.4 AC

EX. STORM
DRAINAGE LINE

MARINE DRIVE N.E.

REMOVE EX. CATCH BASIN (FIELD SURVEY LOCATION) AND CAP AND PLUG ALL EX SD PIPES

EX. CATCH BASIN AT GIS LOCATION. CONTRACTOR TO VERIFY AND CONFIRM CATCH BASINS IN THIS AREA.

PRESERVE AND PROTECT IN PLACE EX. SANITARY SEWER CLEANOUT. POSSIBLE DEWATERING DISCHARGE.

PRESERVE AND PROTECT IN PLACE EX. UTILITIES, TYP.

INSTALL CONSTR ENTRANCE/WHEEL (BMPs C105 AND SEE DETAIL ON

MONITORING WELLS TO BE DECOMMISSIONED BY A LICENSED DRILLER PRIOR TO ANY REMEDIATION CONSTRUCTION ACTIVITIES, TYP.

JEFFERSON ST. N.E.

REMOVE EX. CATCH BASIN AND CAP AND PLUG ALL EX SD PIPES

1,240 L.F., FILTER FABRIC FENCE (BMP C233), SEE DETAIL ON SHEET 11

PRESERVE AND PROTECT IN PLACE EX. SANITARY SEWER CLEANOUT

PRESERVE AND PROTECT IN PLACE EX. TELEPHONE RISER

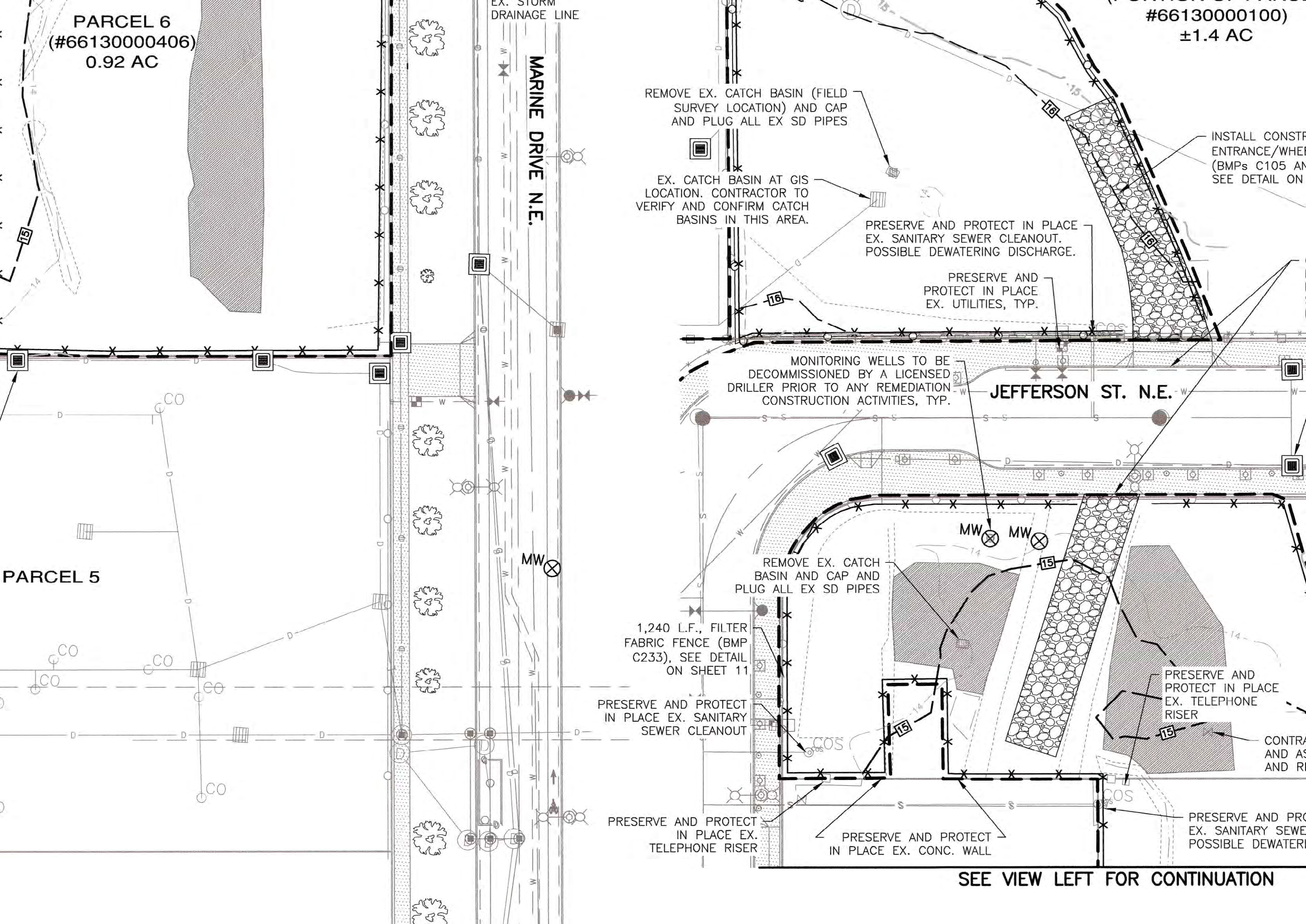
PRESERVE AND PROTECT IN PLACE EX. TELEPHONE RISER

PRESERVE AND PROTECT IN PLACE EX. CONC. WALL

PRESERVE AND PRO EX. SANITARY SEWER POSSIBLE DEWATERING

SEE VIEW LEFT FOR CONTINUATION

PARCEL 5



PRESERVE AND PROTECT IN PLACE
EX. SANITARY SEWER CLEANOUT.
POSSIBLE DEWATERING DISCHARGE

ADAMS AVE NE

INLET PROTECTION (BMP C220),
TYP. SEE DETAIL ON SHEET 11

OLYMPIA AVE.

JEFFERSON ST. N.E.

REMOVE EX. CATCH
BASIN AND CAP AND
PLUG ALL EX. SD PIPES

PARCEL 9
(#66130000409)
0.49 AC

425 L.F., FILTER
FABRIC FENCE (BMP
C233), SEE DETAIL
ON SHEET 11

INSTALL CONSTRUCTION
ENTRANCE/WHEEL WASH
(BMPs C105 AND C106),
SEE DETAIL ON SHEET 11

PRESERVE AND PROTECT
IN PLACE EX. STORM
DRAINAGE UTILITIES

PRESERVE AND PROTECT
IN PLACE EX. VAULT

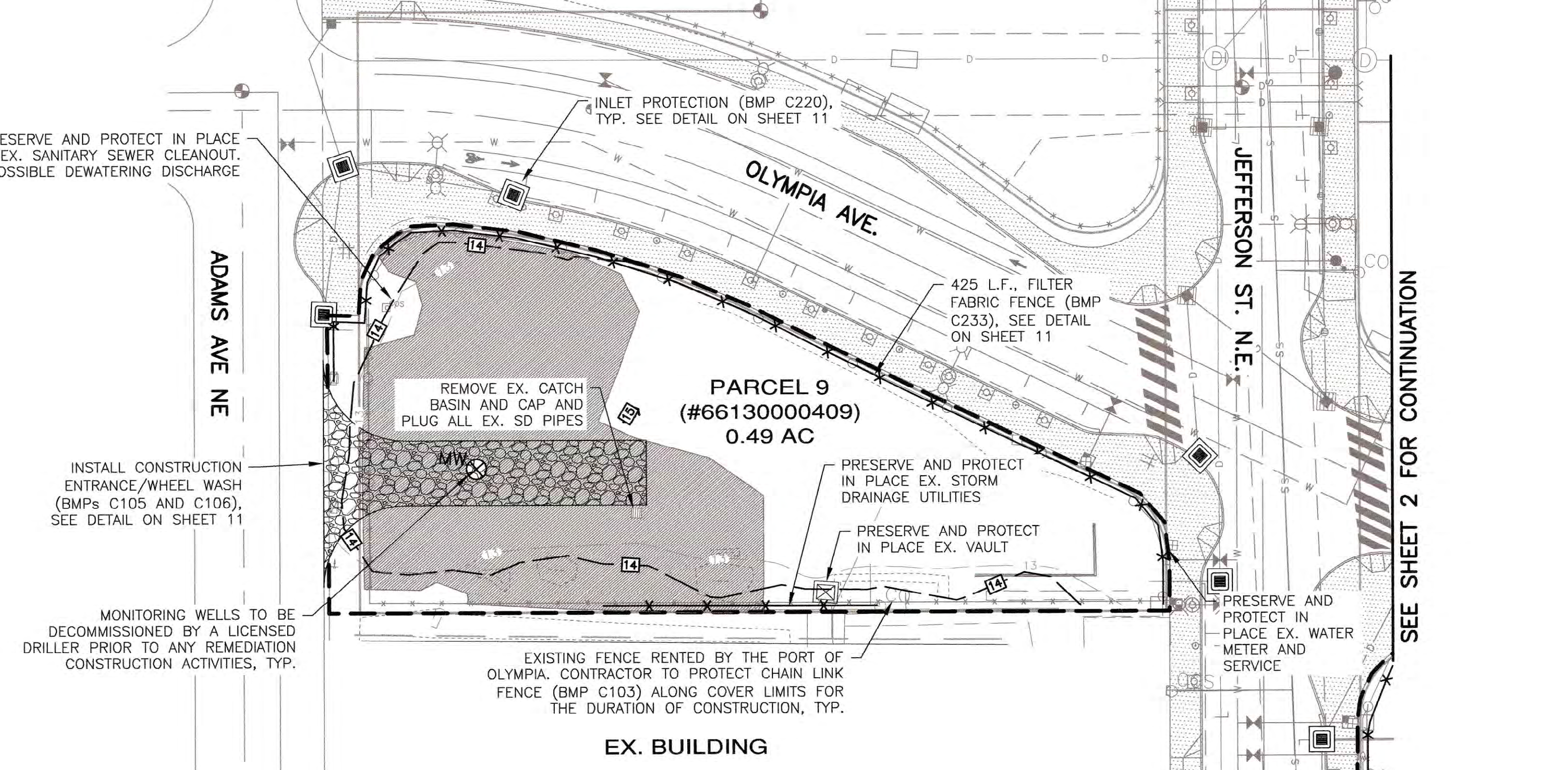
MONITORING WELLS TO BE
DECOMMISSIONED BY A LICENSED
DRILLER PRIOR TO ANY REMEDIATION
CONSTRUCTION ACTIVITIES, TYP.

PRESERVE AND
PROTECT IN
PLACE EX. WATER
METER AND
SERVICE

EXISTING FENCE RENTED BY THE PORT OF
OLYMPIA. CONTRACTOR TO PROTECT CHAIN LINK
FENCE (BMP C103) ALONG COVER LIMITS FOR
THE DURATION OF CONSTRUCTION, TYP.

EX. BUILDING

SEE SHEET 2 FOR CONTINUATION



PROJECT IN SEWER
URGE.

CONSTRUCTION ACTIVITIES, TYP.
APPROXIMATE DP06/SVP-2S0
AREA OF EXCAVATION, 4.5
FEET IN DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

SF OF EX.
PAVEMENT

ABANDON IN PLACE
EX. CULVERT

APPROXIMATE DP04 AREA
OF EXCAVATION, 7 FEET IN
DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

EX. POWER POLE TO
BE REMOVED, TYP.

APPROXIMATE MW24S AREA
OF EXCAVATION, 9 FEET IN
DEPTH. GROUNDWATER
ENCOUNTERED 4-6 FEET
BELOW GROUND SURFACE,
DEWATER AS NEEDED.

PLACE 12" MIN. LAYER OF
GRAVEL/QUARRY
SPALLS WITH GEOTEXTILE FABRIC,
SEE NOTES 2 AND 3 THIS SHEET
(AREA = 141,177 SF)

PARCEL 3

PARCEL 2

REMOVE EXISTING 12" MIN. OF
MATERIAL USING HAND TOOLS, THEN
ADD GEOTEXTILE FABRIC AND FILL WITH
12" MIN. OF GRAVEL/QUARRY SPALLS.

CB #1, TYPE 1
(WSDOT STD PLAN B-.20-01)
W/BEEHIVE GRATE PER DETAIL ON
SHEET 11 OR APPROVED ALTERNATE
N=633736.52
E=1043258.43
TG=14.23
IE=11.44, 12"φ

CB #2, TYPE 1
(WSDOT STD PLAN B-.20-01)
W/BEEHIVE GRATE PER DETAIL ON
SHEET 11 OR APPROVED ALTERNATE
N=633756.63
E=1043332.79
TG=14.68
IE=11.05, 12"φ
IE=11.05, 12"φ

CB #3, TYPE 1
(WSDOT STD PLAN B-.20-01)
W/BEEHIVE GRATE PER DETAIL ON
SHEET 11 OR APPROVED ALTERNATE
N=633737.85
E=1043409.77
TG=14.14
IE=10.65, 12"φ
IE=10.65, 12"φ

55 LF, 6"φ
PERFORATED PIPE ON
TOP OF GEOTEXTILE

120 LF, 12"φ SD
@ S=0.50%

- 12" MIN. LAYER SHALL BE CLEAN W/ MINIMUM VOID RATIO OF 30% QUARRY SPALLS OR APPROVED
- LAYFIELD LP200 OR APPROVED GEOTEXTILE PLACED ON EXISTING UNCOMPACTED
- SEE SHEET 8 FOR SECTION DETAILS
- ADJUST UTILITY STRUCTURE LID TO MATCH PROPOSED FINISHED GRADE

OLYMPIA AVE. NE

COVER LIMITS

SEE SHEET 8
FOR SECTION VIEWS

B

A

MW

MW

MW

MW

15

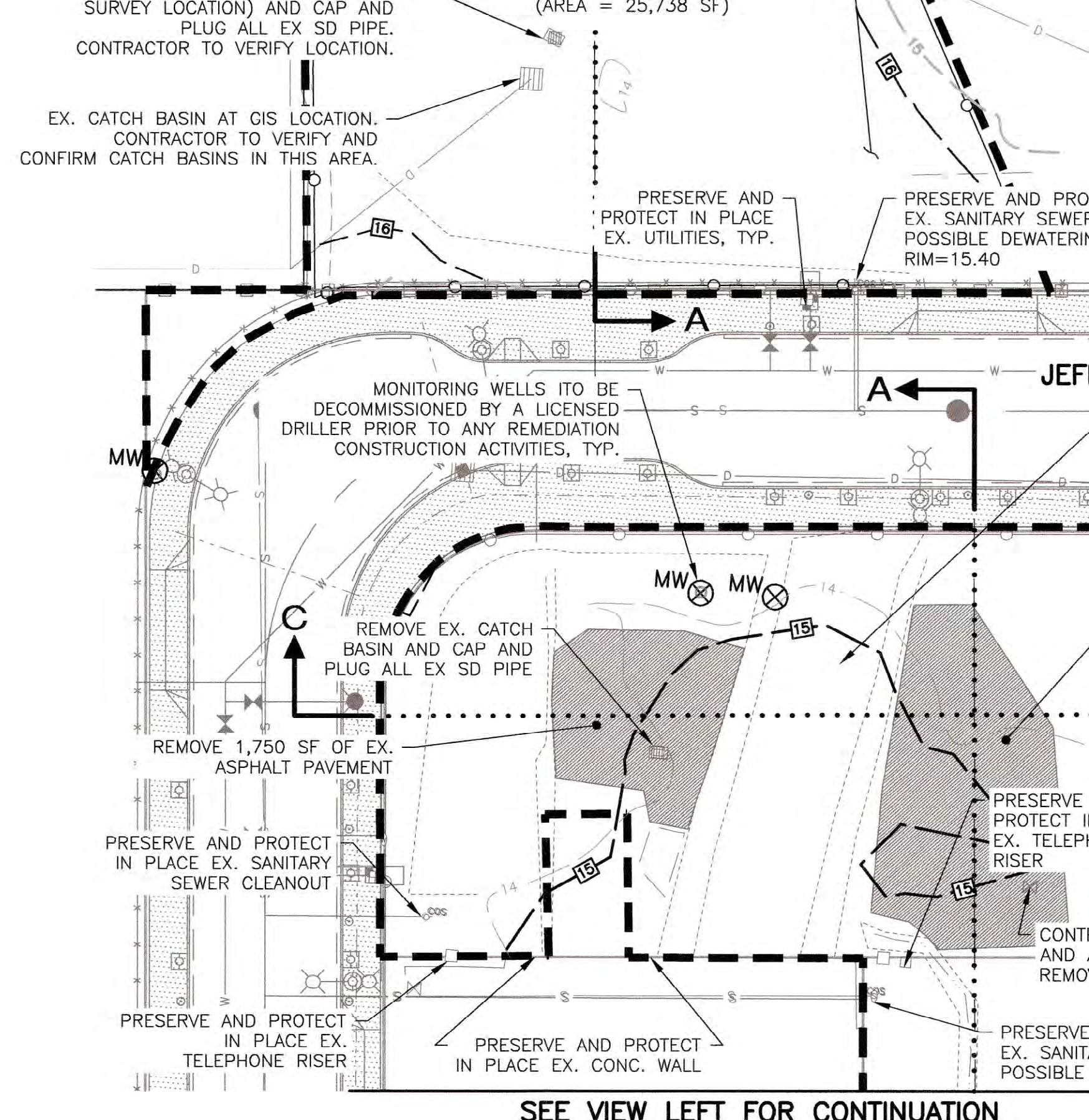
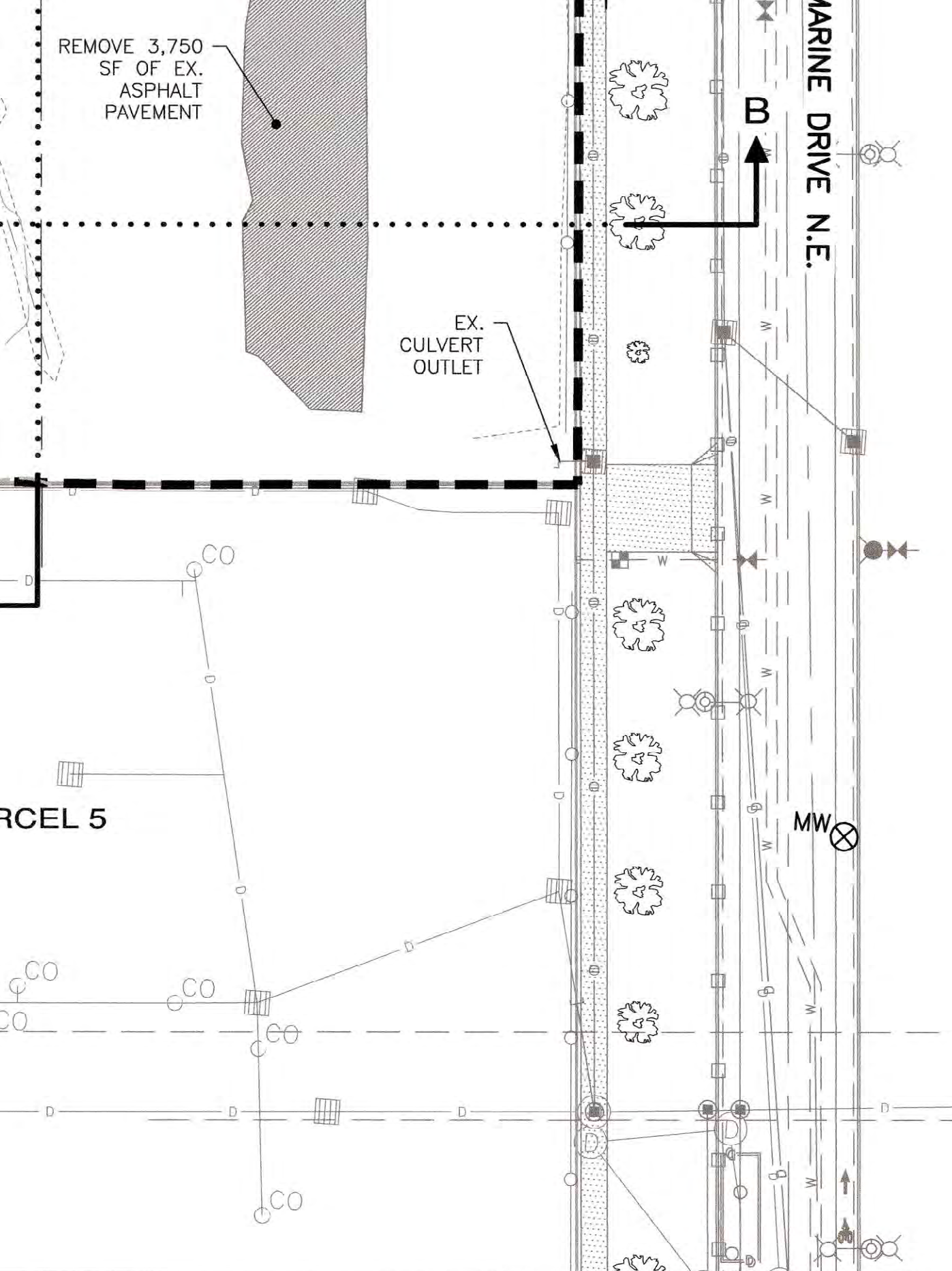
16

16

16

77 LF, 12"φ SD
@ S=0.51%

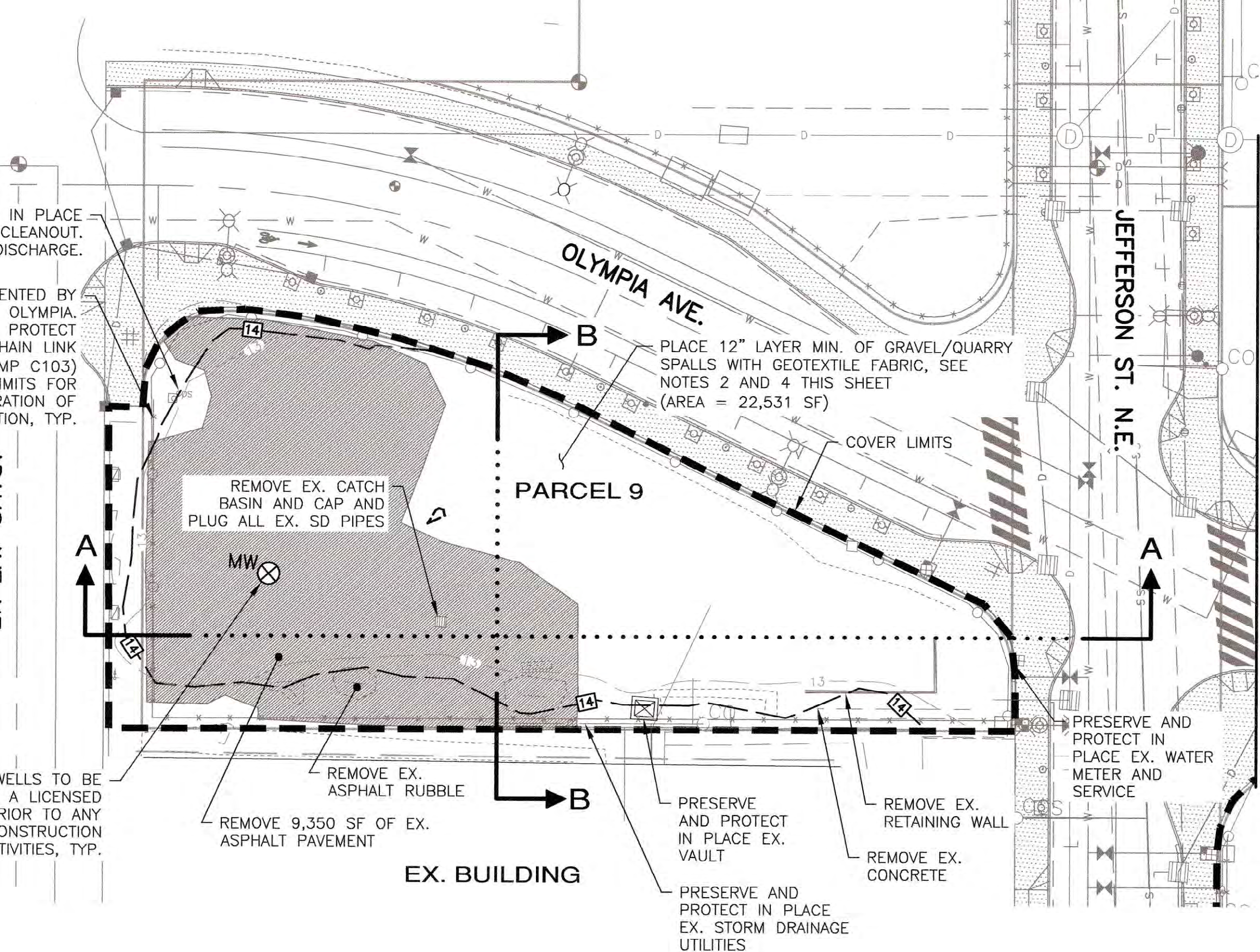
52 LF, 6"φ
PERFORATED PIPE ON
TOP OF GEOTEXTILE



TINUATION

APPROXIMATE EARTHWORK QUANTITIES - LOT 1	
COVER AREA	= 25,738 SF (0.59 AC)
EARTHWORK CUT	= 100 cu yds.

APPROXIMATE EARTHWORK QUANTITIES - PARCELS 6 & 7	
COVER AREA	= 60,204 SF (1.38 AC)
EARTHWORK CUT (SEE NOTE 1)	= 132 cu yds. CUT
EARTHWORK FILL	= 130 cu yds. FILL
RE-USED CUT FROM	



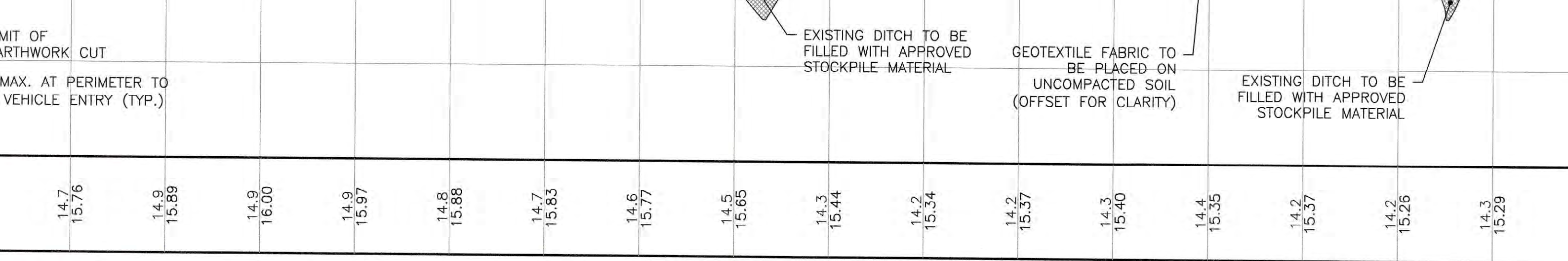
SEE SHEET 5 FOR CONTINUATION

APPROXIMATE EARTHWORK	
COVER AREA	
EARTHWORK CUT (SEE NOTE 1)	
EARTHWORK FILL	
EARTHWORK TOTAL	
GRAVEL FILL (SEE NOTE 2)	

AS-BUILT NOTE:
EARTHWORK QUANTITIES WERE BALANCED AND EXISTING SOIL MATERIAL WAS MOVED

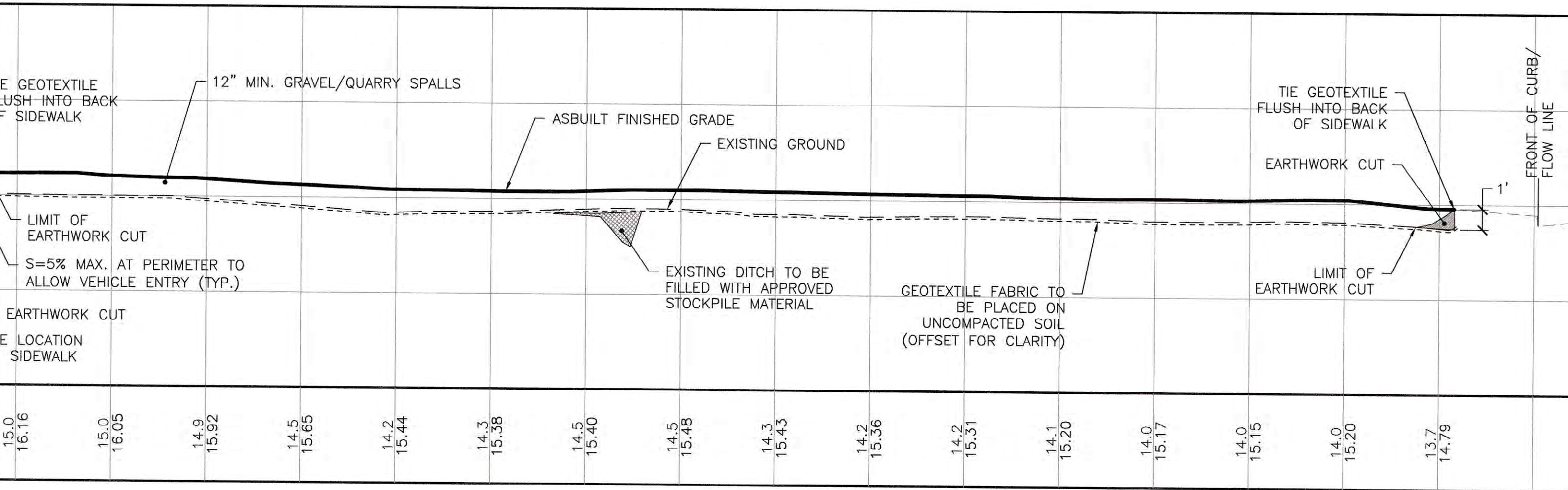
NOTES:

1. EARTHWORK CUT SHALL BE STOCKPILED IN EXCAVATION AREA FOR POSSIBLE REUSE. GEOTEXTILE AND GRAVEL COVER SHALL BE INSTALLED ONCE APPROVED, STOCKPILE MUST BE PROTECTED.
2. 12" MIN. LAYER SHALL BE CLEAN WASHED. A MINIMUM VOID RATIO OF 30% SHALL BE MAINTAINED. 9-13.1(5) QUARRY SPALLS OR EQUIVALENT SHALL BE USED.
3. GRAVEL FROM EX. ACCESS ROAD SHALL BE REUSED (CY). NO TESTING REQUIRED FOR REUSE.
4. LAYFIELD LP200 OR APPROVED EQUIVALENT SHALL BE PLACED ON EXISTING UNCOMPACTED SUBGRADE.
5. SEE SHEET 10 FOR SECTION D.
6. ADJUST UTILITY STRUCTURE LIDS TO MATCH PROPOSED FINISHED GRADE.



PARCEL 2-3 SECTION A-A

1"=20' HORIZ.
SCALE: 1"=5' VERT.



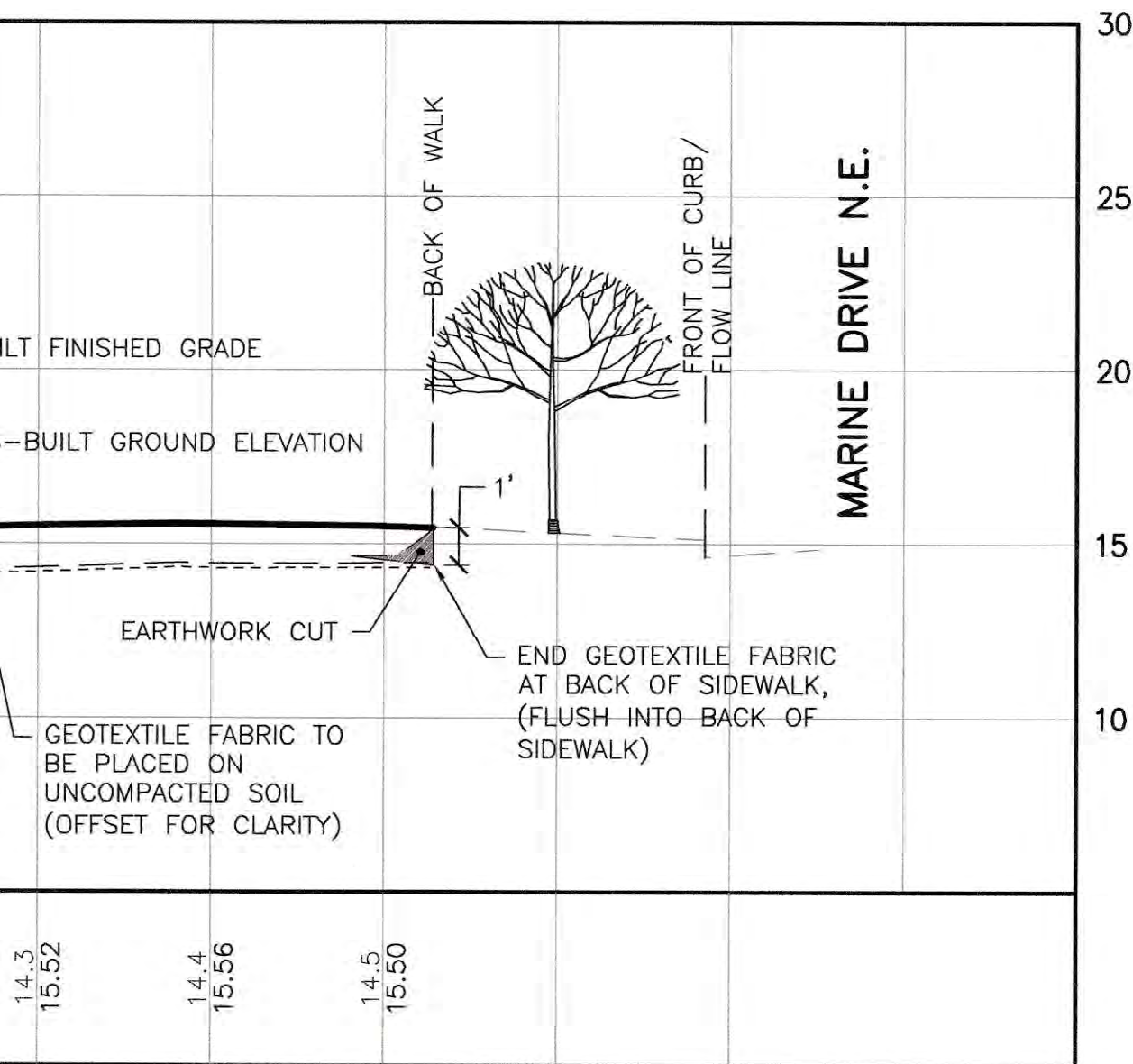
PARCEL 2-3 SECTION B-B

1"=20' HORIZ.
SCALE: 1"=5' VERT.

14.1 15.22	14.1 15.15	14.2 15.18	14.2 15.19	14.2 15.13	14.1 15.06	14.1 15.11	14.1 15.15	14.0 15.04	13.8 14.87	13.7 14.72	13.7 14.72	13.8 14.98	13.6 14.97	14.0 15.10	14.2 15.22	14.3 15.30
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PARCEL 6-7 SECTION A-A

SCALE: 1"=20' HORIZ.
1"=5' VERT.



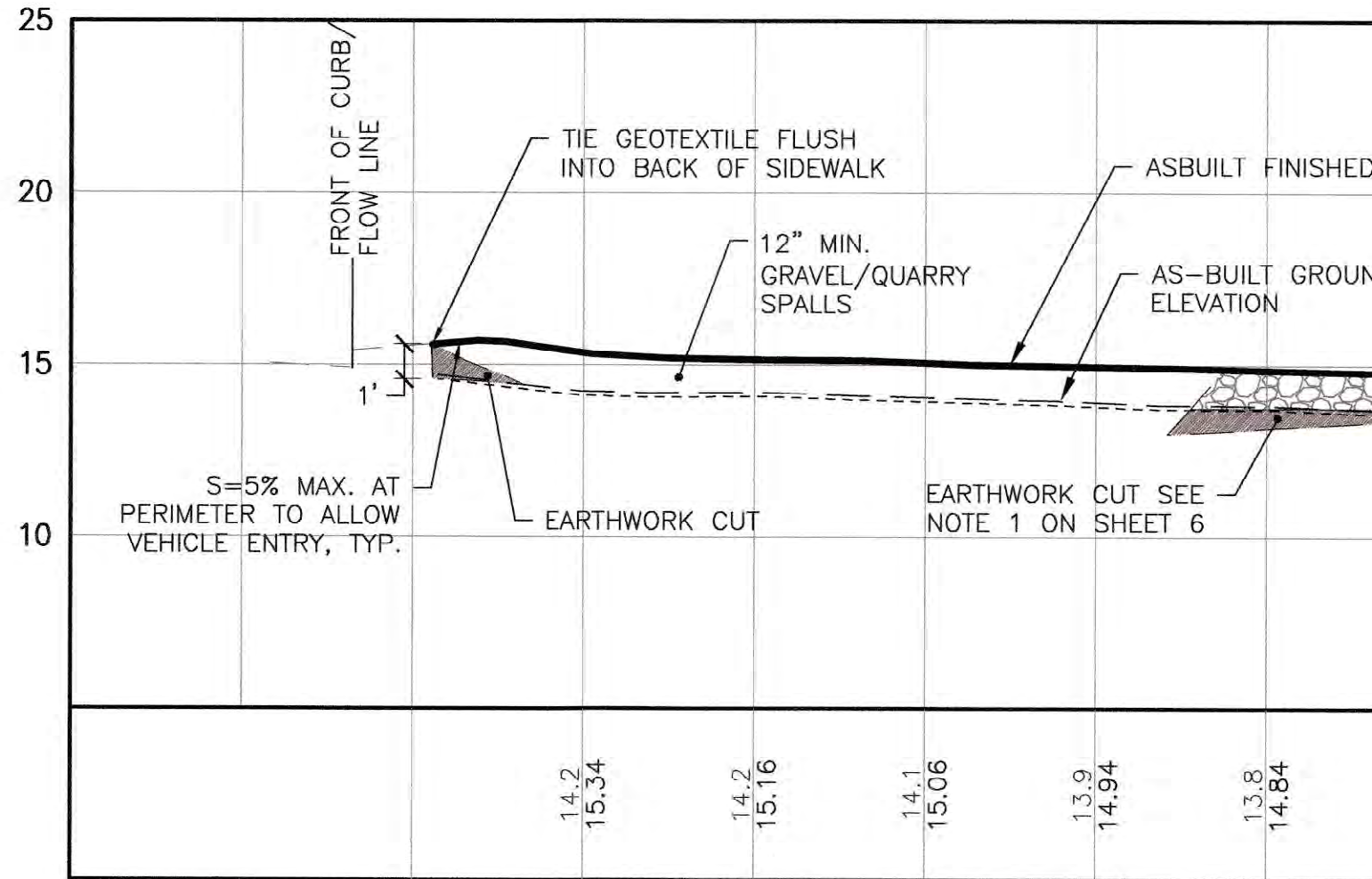
SECTION B-B

1"=20' HORIZ.
1"=5' VERT.

UNCOMPACTED SOIL
(OFFSET FOR CLARITY)

BE FILLED WITH
APPROVED
STOCKPILE MATERIAL

APPROXIMATE LOCATION
OF EXISTING SIDEWALK



PARCEL 6-7 SECTION B-B

SCALE: 1"=20' HORIZ.
1"=5' VERT.

13.1
14.12

13.3
14.38

13.3
14.45

13.3
14.36

13.2
14.38

13.3
14.40

13.5
14.44

13.5
14.53

13.4
14.45

13.3
14.36

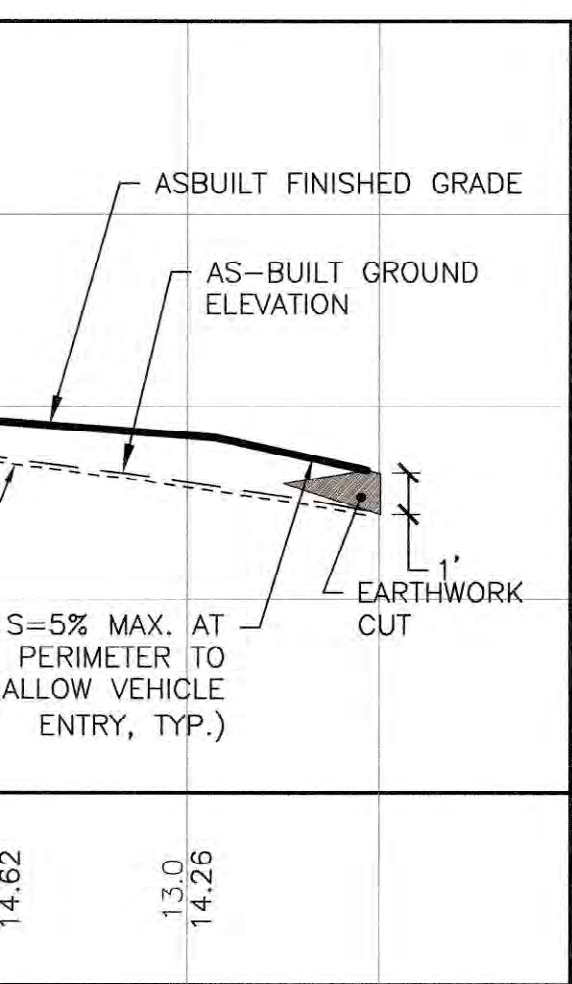
13.3
14.32

13.4
14.41

13.4
14.49

PARCEL 9 SECTION A-A

SCALE: 1"=20' HORIZ.
1"=5' VERT.



25

20

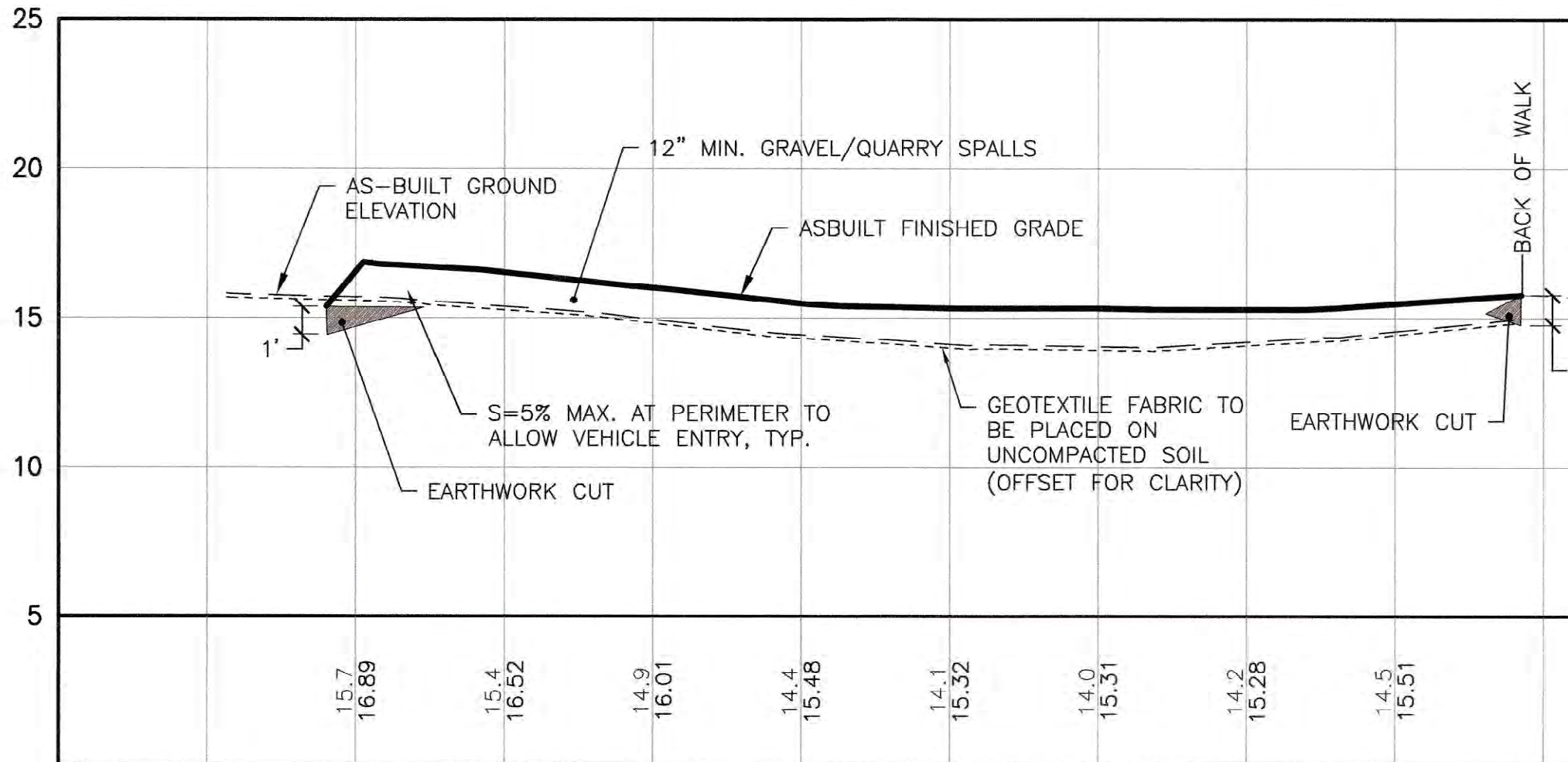
15

10

14.62

13.0
14.26

B-B



25

20

15

10

5

15.7
16.89

15.4
16.52

14.9
16.01

14.4
15.48

14.1
15.32

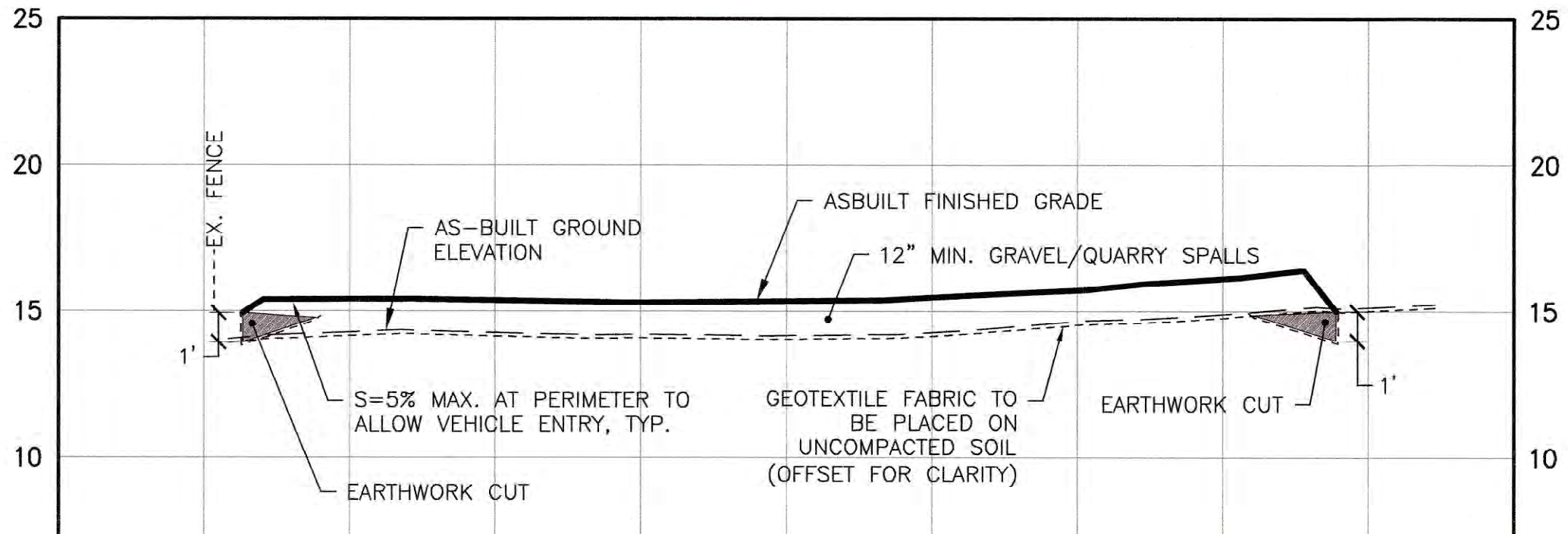
14.0
15.31

14.2
15.28

14.5
15.51

LOT 1 SECTION A-A

SCALE: 1"=20' HORIZ.
1"=5' VERT.



25

20

15

10

25

20

15

10

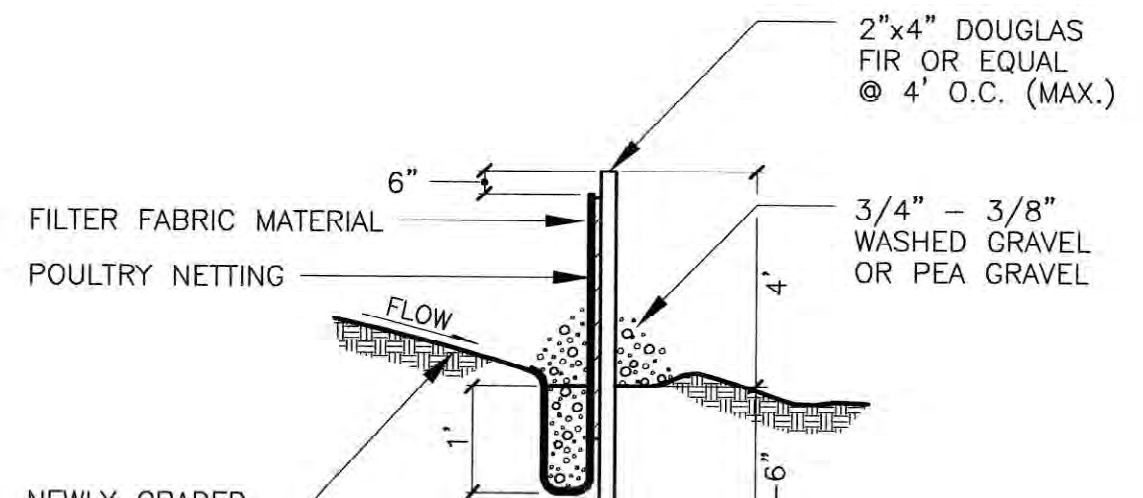
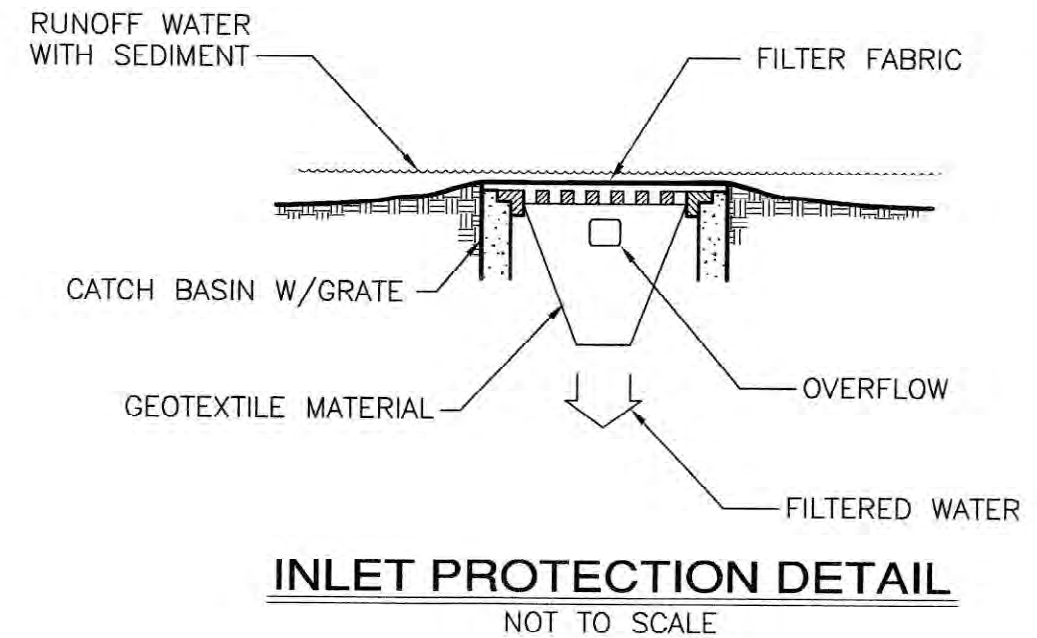
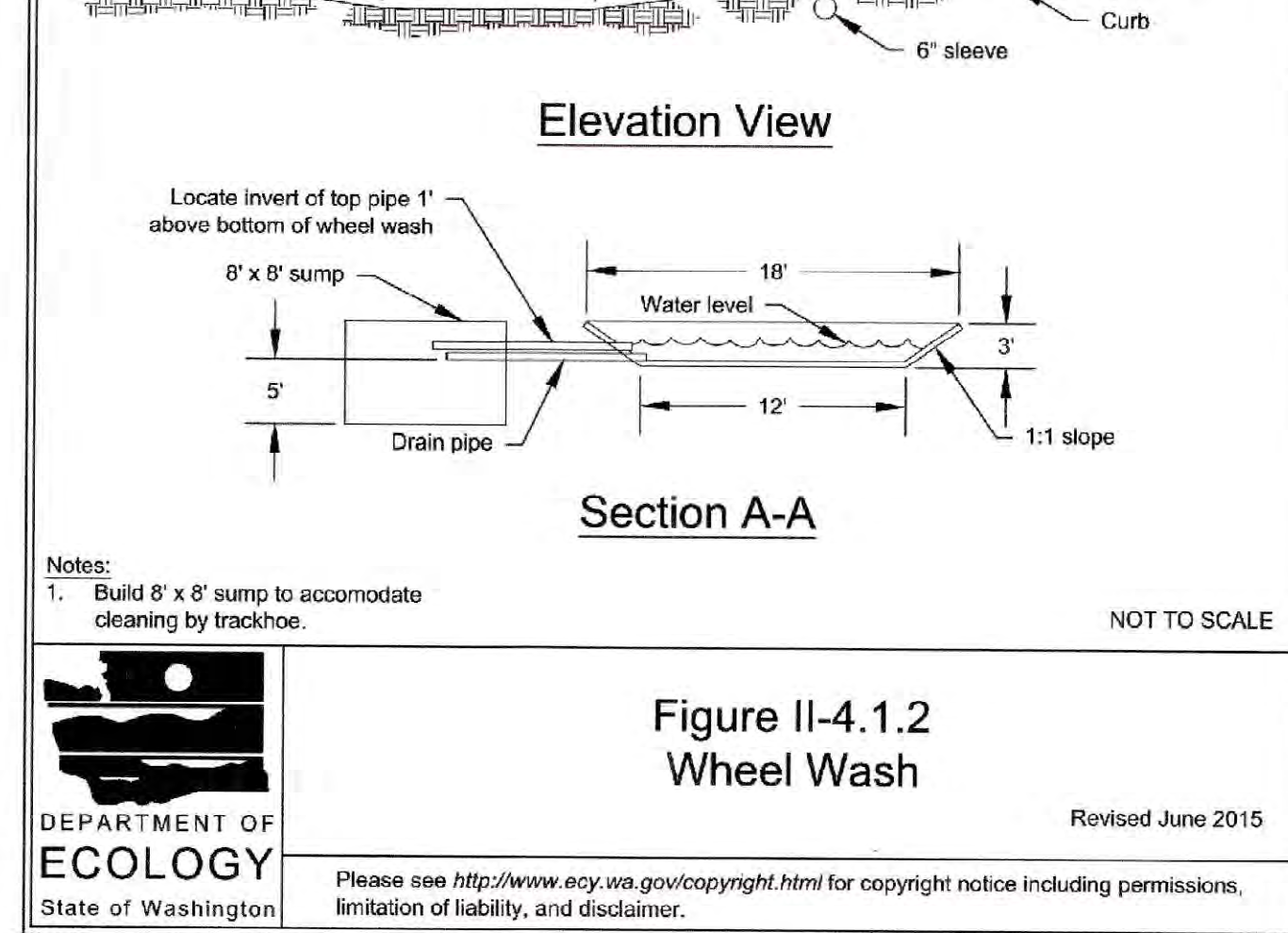
17. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORM WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. REPORT ALL SPILLS TO 911.

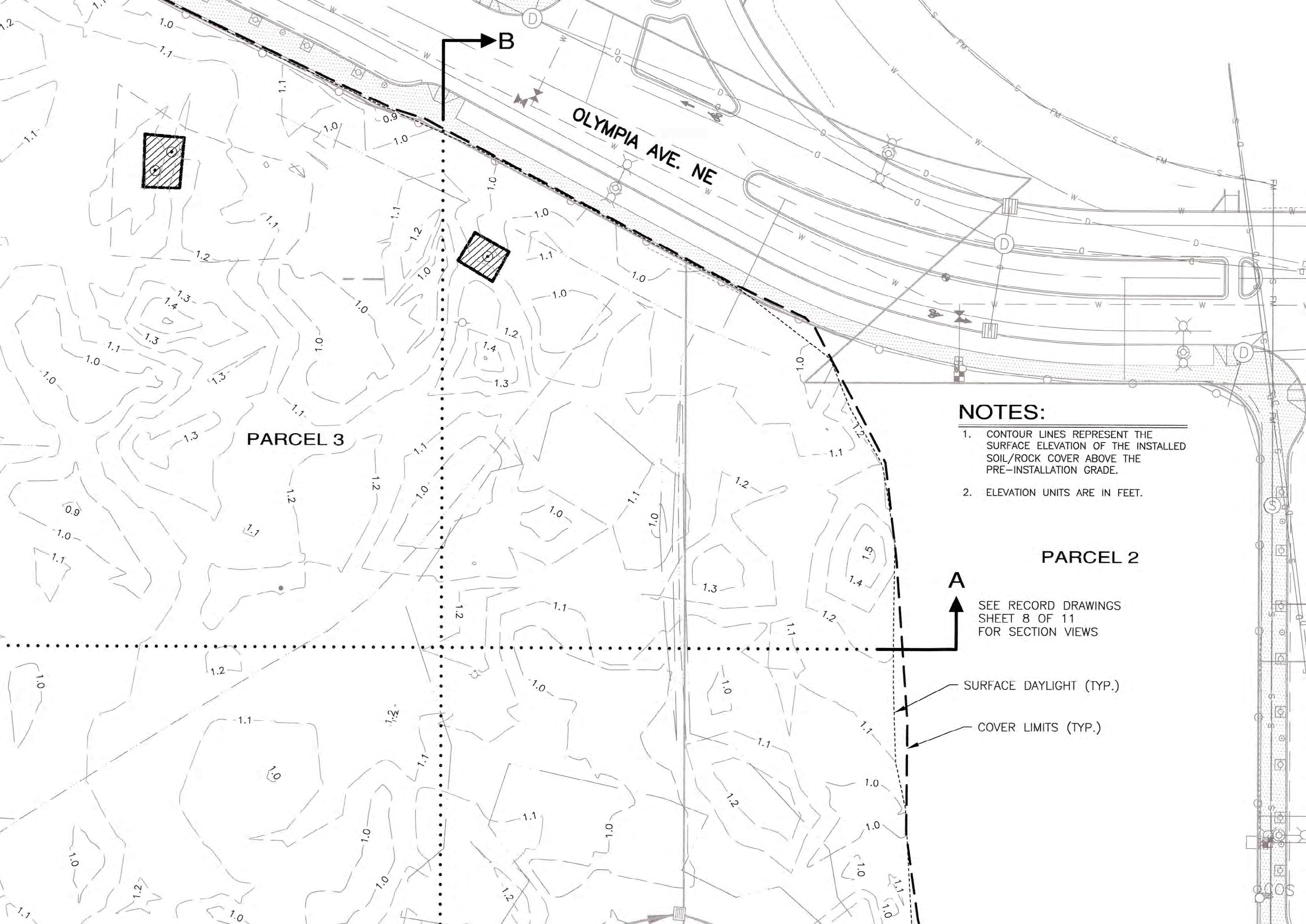
STREET CONSTRUCTION NOTES:

1. ALL CURB, CURB AND GUTTER, STREET GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE STAKED BY ENGINEERING OR SURVEYING FIRMS CAPABLE OF PERFORMING SUCH WORK.
2. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-I IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS THE NEW ASPHALT SHALL BE FEATHERED BACK OVER EXISTING ASPHALT TO PROVIDE FOR A SEAL AT THE SAWCUT LOCATION AND THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.
3. COMPACTION OF SUBGRADE ROCK, AND ASPHALT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. ALL JOINT (CONTRACTION, CONSTRUCTION, ISOLATION, ETC.) LAYOUT PLANS SHALL BE APPROVED ONE WEEK BEFORE PLACING CONCRETE.
5. FORM AND SUBGRADE INSPECTION BY THE CITY IS REQUIRED BEFORE PLACING CONCRETE. TWENTY-FOUR HOURS' NOTICE IS REQUIRED FOR FORM INSPECTION.
6. TESTING AND SAMPLING FREQUENCIES SHALL BE AS DESCRIBED IN THESE STANDARDS.
7. THE CITY MANUFACTURES AND INSTALLS STREET NAME AND REGULATORY SIGNS AT THE CONTRACTOR'S/DEVELOPER'S EXPENSE. SIGNS SHALL BE REQUESTED AT THE TIME CONSTRUCTION BEGINS

STORMWATER CONSTRUCTION NOTES:

1. ALL STORM CONVEYANCES AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
2. SPECIAL STRUCTURES, OIL/WATER SEPARATORS, AND OUTLET CONTROLS SHALL BE INSTALLED PURSUANT TO PLANS AND MANUFACTURER'S RECOMMENDATIONS.
3. WHERE CONNECTIONS REQUIRE 'FIELD VERIFICATIONS', CONNECTION POINTS SHALL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUTDOWN NOTICES.
4. ALL STORM LINES AND CATCH BASINS SHALL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISION 7 OF THE STANDARD SPECIFICATIONS PRIOR TO PAVING IN CONFORMANCE WITH THE ABOVE-REFERENCED SPECIFICATIONS. HYDRANT FLUSHING OF LINES IS NOT AN ACCEPTABLE CLEANING METHOD.
5. TESTING OF THE STORM PIPING SHALL INCLUDE TELEVISION INSPECTION AT THE CONTRACTOR'S EXPENSE. ADDITIONAL TELEVISION THAT IS DEEMED NECESSARY SHALL ALSO BE AT THE CONTRACTOR'S EXPENSE. ALL TELEVISION INSPECTIONS SHALL BE COMPLETED IN THE MANNER AS REQUIRED BY THE PACP. IMMEDIATELY PRIOR TO TELEVISION INSPECTING, ENOUGH WATER SHALL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER MANHOLE AND THE LINE IS FLUSHED CLEAN. ACCEPTANCE OF THE LINE SHALL BE MADE AFTER THE TELEVISION INSPECTION TAPE HAS BEEN RENEWED AND APPROVED BY THE INSPECTOR.
6. ALL CATCH BASINS SHALL HAVE A CURB MARKER, ANTI-DUMPING DISC INSTALLED AS SPECIFIED IN THE EDDS.
7. ALL SOLID ROUND CATCH BASIN COVERS SHALL BE CITY OF OLYMPIA DECORATIVE STANDARD (PER STANDARD DRAWING 5-12).
8. ALL SURFACE STORM WATER FACILITIES SHALL HAVE INFORMATIONAL SIGNS INSTALLED ADJACENT TO THEM.





OLYMPIA AVE. NE

PARCEL 3

PARCEL 2

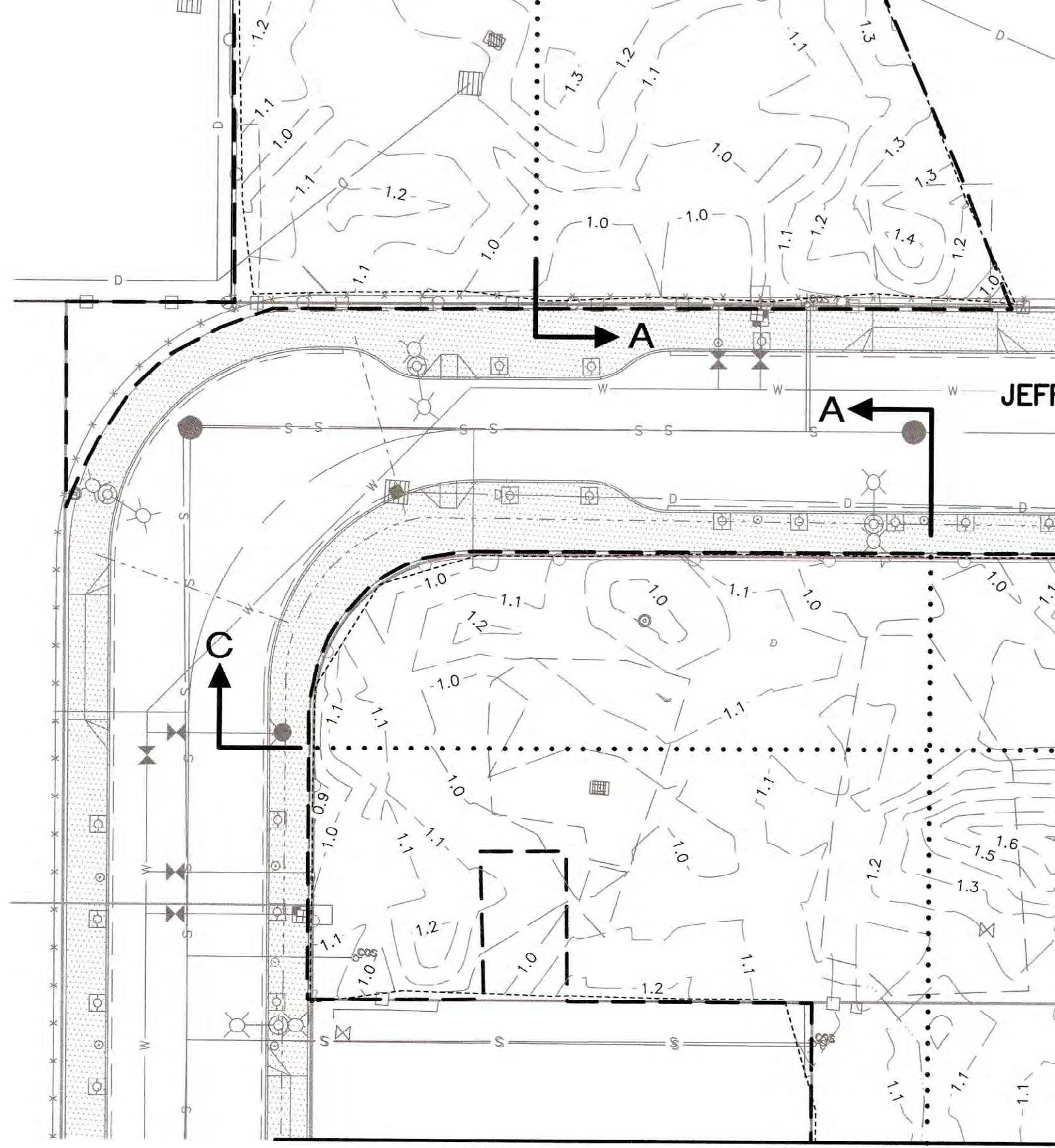
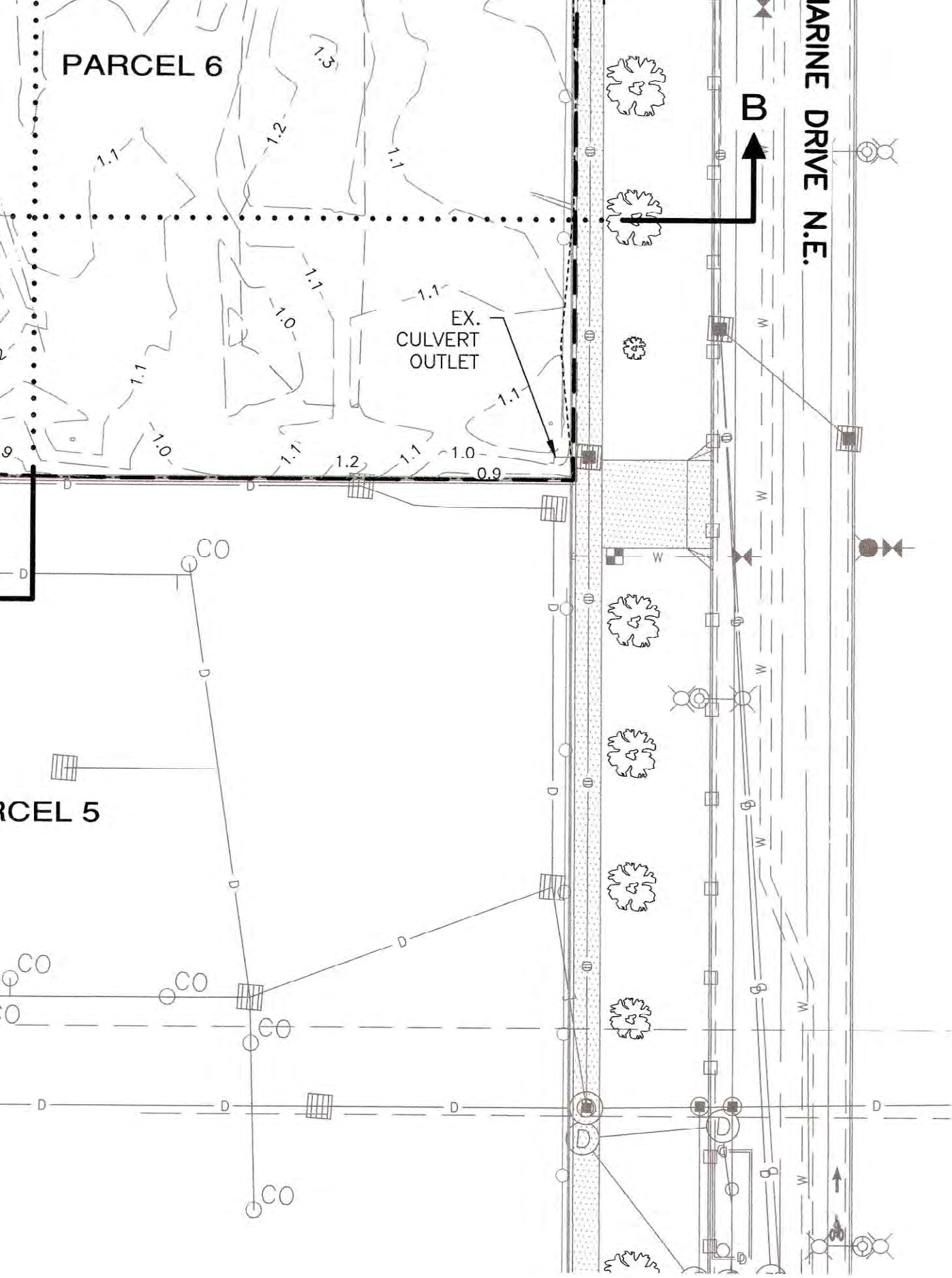
NOTES:

1. CONTOUR LINES REPRESENT THE SURFACE ELEVATION OF THE INSTALLED SOIL/ROCK COVER ABOVE THE PRE-INSTALLATION GRADE.
2. ELEVATION UNITS ARE IN FEET.

A
SEE RECORD DRAWINGS
SHEET 8 OF 11
FOR SECTION VIEWS

SURFACE DAYLIGHT (TYP.)

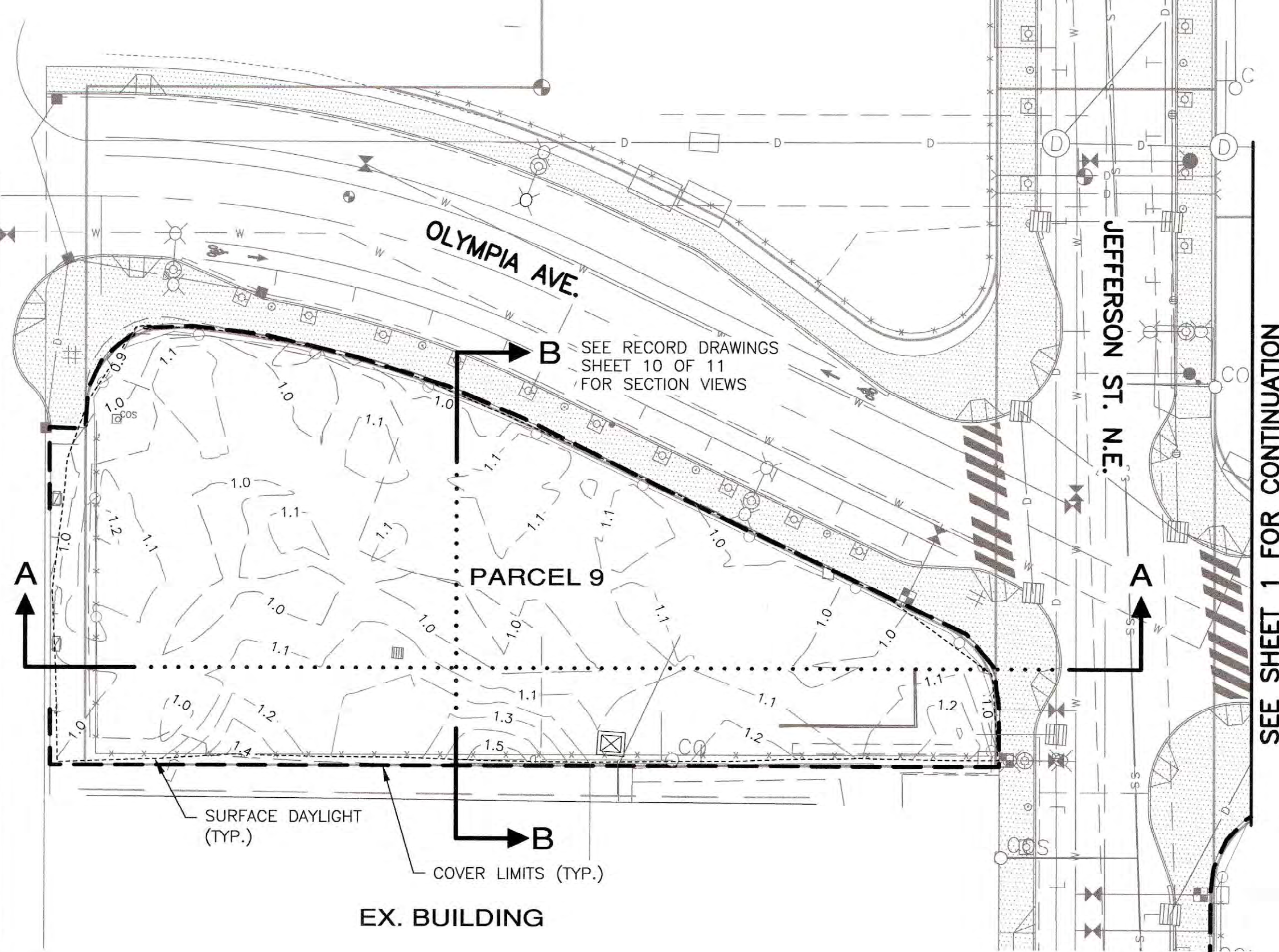
COVER LIMITS (TYP.)



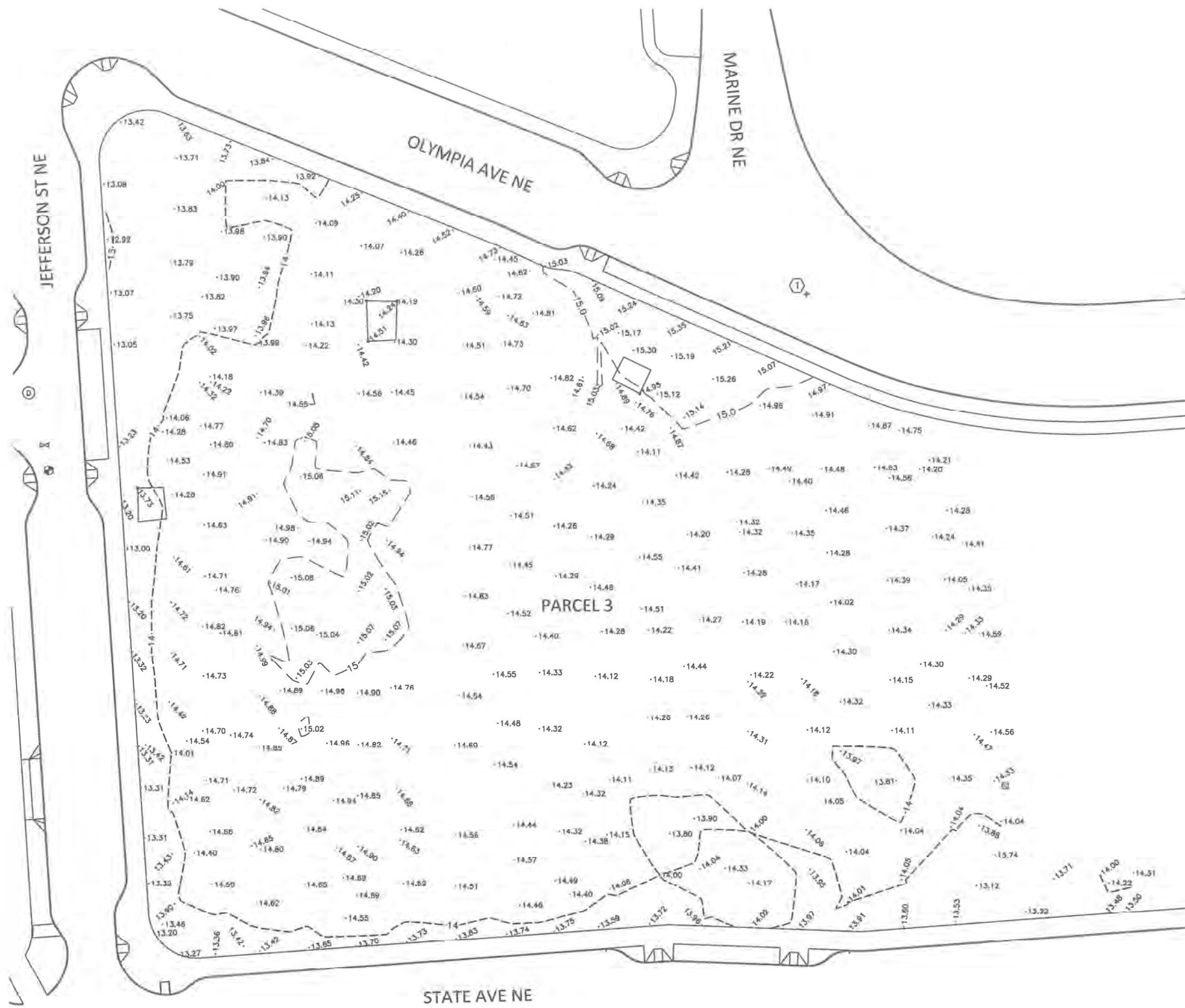
SEE VIEW LEFT FOR CONTINUATION

NOTES:

1. CONTOUR LINES REPRESENT THE SURFACE ELEVATION OF THE INSTALLED SOIL/ROCK COVER ABOVE THE PRE-INSTALLATION GRADE.
2. ELEVATION UNITS ARE IN FEET.



SEE SHEET 1 FOR CONTINUATION

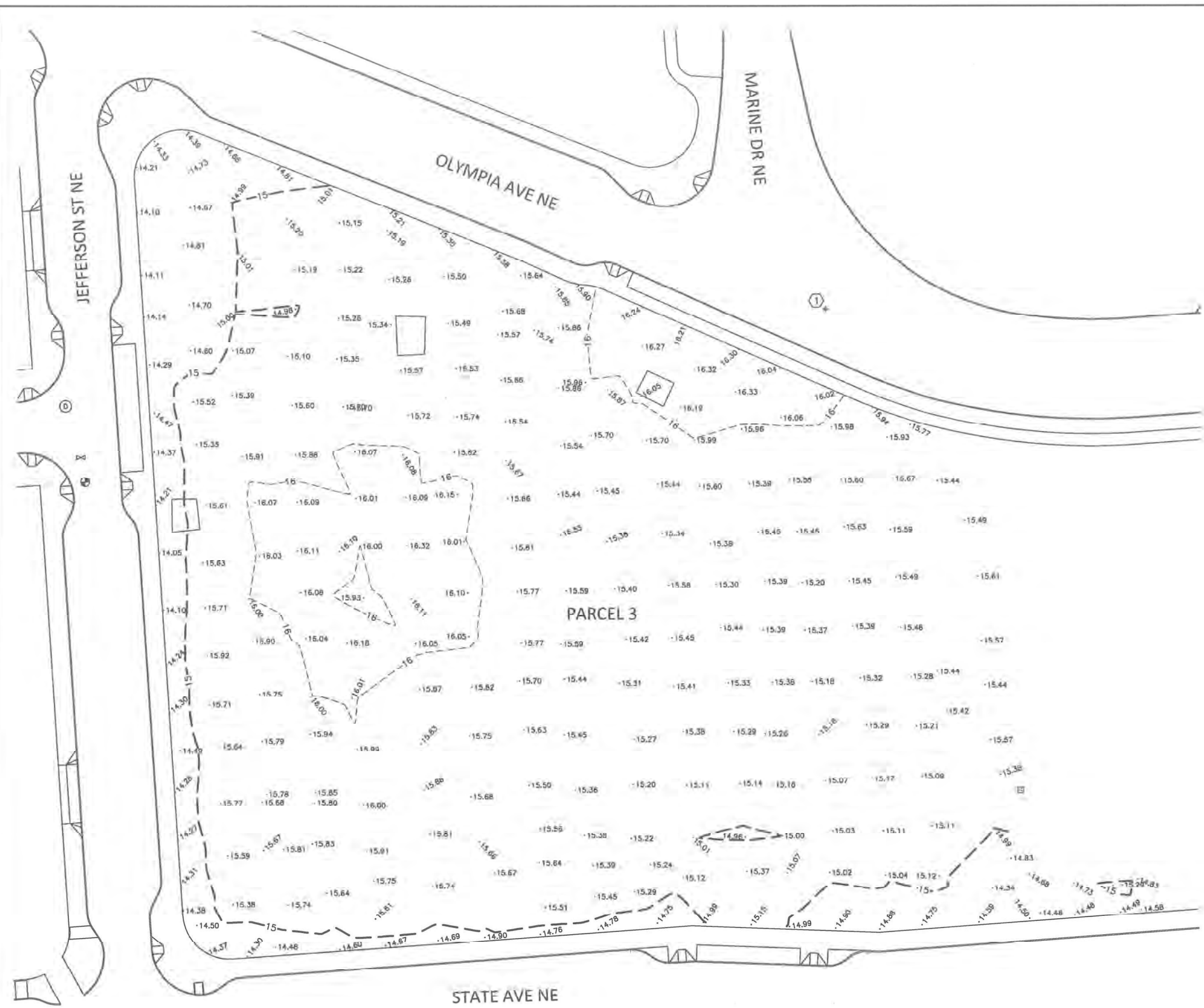


- DATUM**
 VERTICAL - NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019
- SURVEY NOTES**
1. INSTRUMENT USED: SOKKIA SRX 3 TOTAL STATION
 2. SURVEY COMPLETED 12/01/2017
 3. MAPPING SHOWN IS BEFORE ROCK, COMPLETED 11/30/2017
- MONUMENT NOTES**
1. MTN2COAST CONTROL POINT NO. 23, PK NAIL IN MEDIAN OF OLYMPIA AVE NE. ELEV=15.87

12/1/17 JHR

BEFORE ROCK

DATE 12/01/2017			PROJECT NAME: EAST BAY PARCELS CLEANUP PARCEL 3 PROJECT NO. ENV1303 CONTRACT NO. 2017-1019	SHEET NAME: SV-1
SCALE 1" = 30'			PROFESSIONAL LAND SURVEYORS 2320 MOTTMAN RD SW, SUITE 106 TUMWATER, WA 98512 360.239.1497	CLIENT NAME: IO ENVIRONMENTAL, INC.
W2C PROJECT NO: 17-652				
DRAWN JHR				
CHECKED BEP				
APPROVED BEP			SHEET NO. 1 OF 8	



DATUM

VERTICAL - NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019

SURVEY NOTES

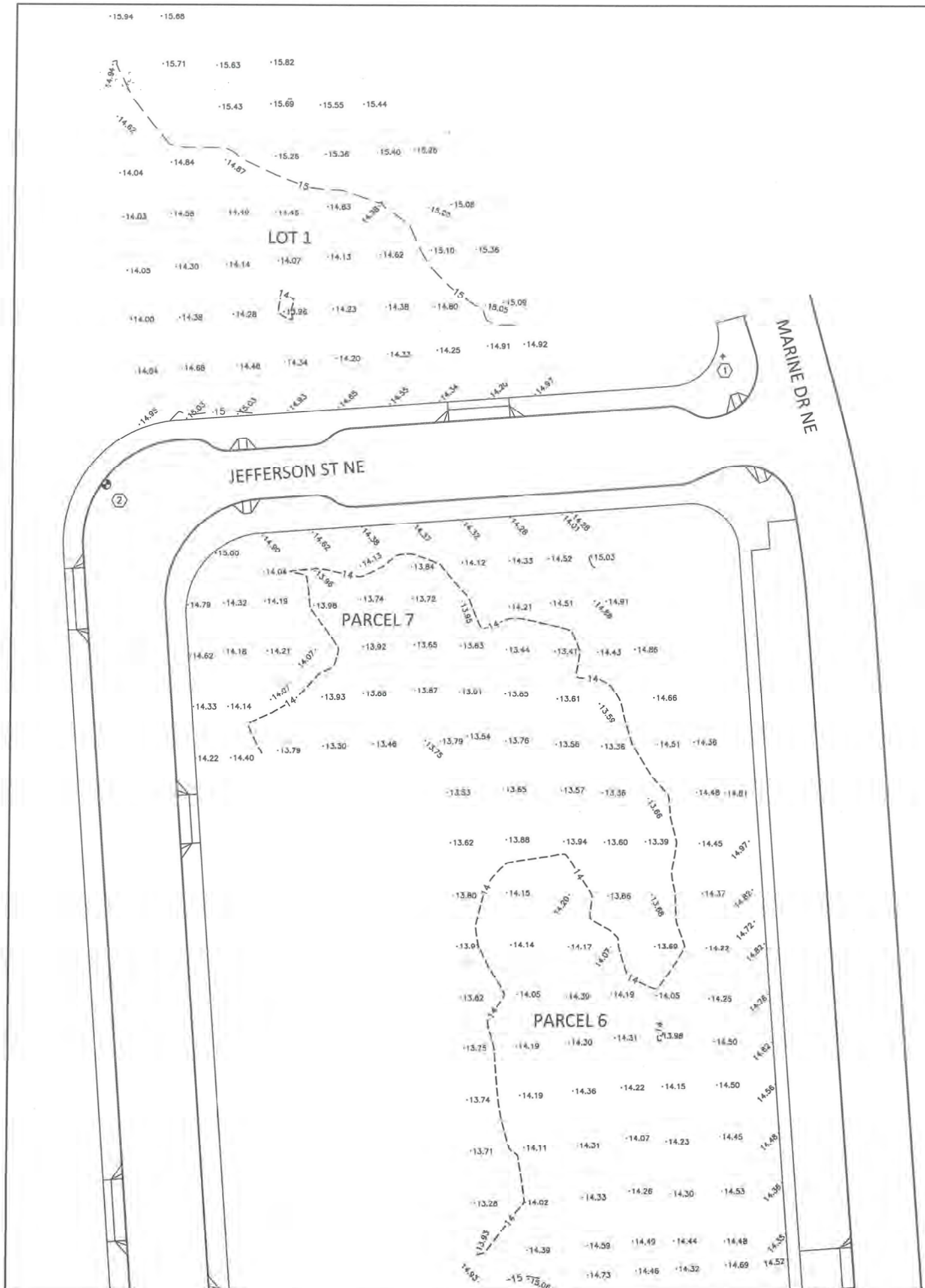
1. INSTRUMENT USED: SOKKIA SRX 3 TOTAL STATION.
2. SURVEY COMPLETED 12/01/2017
3. MAPPING SHOWN IS AFTER ROCK, COMPLETED 11/30/2017

① MONUMENT NOTES

1. MTN2COAST CONTROL POINT NO. 23, PK NAIL IN MEDIAN OF OLYMPIA AVE NE. ELEV=15.87

12/1/17 Juse

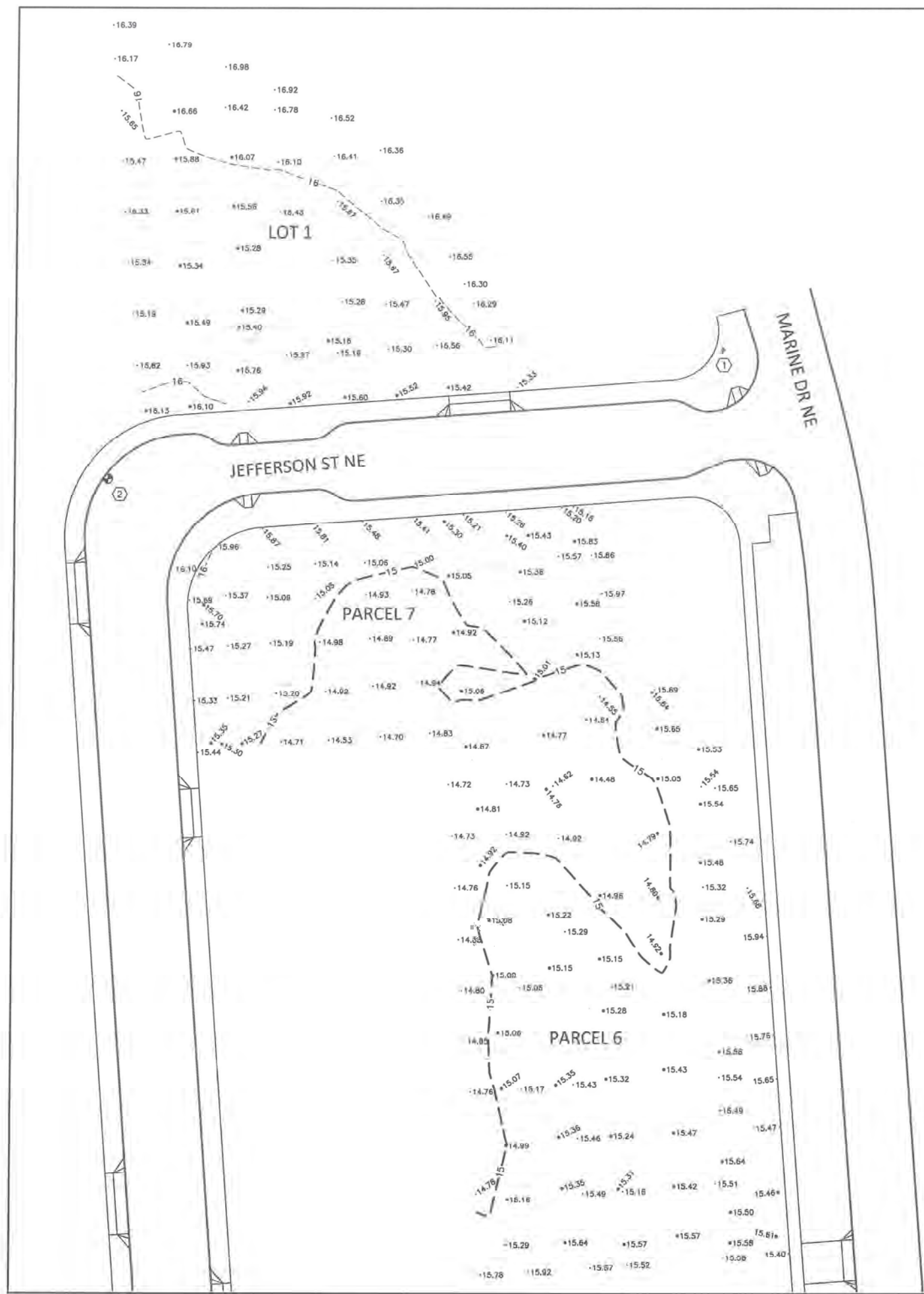
DATE	12/01/2017		<p>PROFESSIONAL LAND SURVEYORS 2320 MOTTMAN RD SW, SUITE 10G TUMWATER, WA 98512 360.239.1497</p>	PROJECT NAME:	AFTER ROCK	SHEET NAME:	
SCALE	1" = 30'			CLIENT NAME:	IO ENVIRONMENTAL, INC.		SV-2
M2C PROJECT NO.:	17-652						
DRAWN	JHK						
CHECKED	BEP						
APPROVED	BEP						



- DATUM**
 VERTICAL — NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019
- SURVEY NOTES**
1. INSTRUMENT USED: SOKKIA SRX 3 TOTAL STATION.
 2. SURVEY COMPLETED 12/01/2017
 3. MAPPING SHOWN IS BEFORE ROCK, COMPLETED 10/18/2017
- MONUMENT NOTES**
1. MTN2COAST CONTROL POINT NO. 16, PK NAIL IN WEST SIDEWALK OF MARINE DR ELEV=15.57
 2. MTN2COAST CONTROL POINT NO. 19, 3" BRASS CAP WITH PUNCH "2010 LS 27192" ELEV=15.18



DATE: 12/01/2017			BEFORE ROCK		SHEET NAME: SV-3	
SCALE: 1" = 30'				PROJECT NAME: EAST BAY PARCELS CLEANUP LOT 1, PARCEL 6, PARCEL 7 PROJECT NO. ENV1303 CONTRACT NO. 2017-1019		
M2C PROJECT NO.: 17-652				CLIENT NAME: IO ENVIRONMENTAL, INC.		
DRAWN: JHK				PROFESSIONAL LAND SURVEYORS 2320 MOTTMAN RD SW, SUITE 106 TUMWATER, WA 98512 360.239.1497		
CHECKED: BEP				DATE: 12/1/17		
APPROVED: BEK						

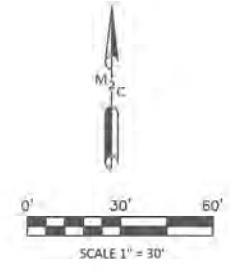


DATUM

VERTICAL - NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019

SURVEY NOTES

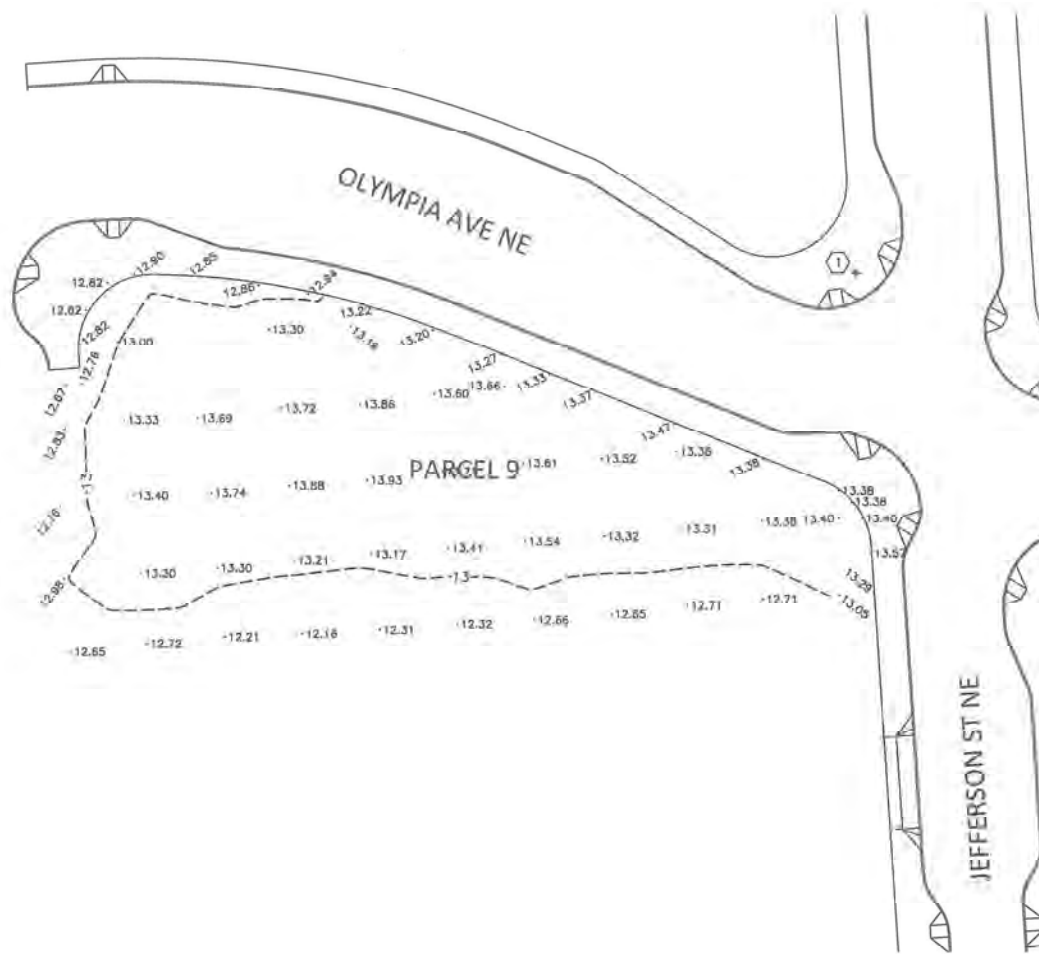
1. INSTRUMENT USED: SOKKIA SRX 3 TOTAL STATION.
2. SURVEY COMPLETED 12/01/2017
3. MAPPING SHOWN IS AFTER ROCK, COMPLETED 11/30/2017



MONUMENT NOTES

1. MTN2COAST CONTROL POINT NO. 16, PK NAIL IN WEST SIDEWALK OF MARINE DR ELEV=15.57
2. MTN2COAST CONTROL POINT NO. 19, 3" BRASS CAP WITH PUNCH "2010 LS 27192" ELEV=15.18

DATE 12/01/2017			PROJECT NAME: EAST BAY PARCELS CLEANUP LOT 1, PARCEL 6, PARCEL 7 PROJECT NO. ENV1303 CONTRACT NO. 2017-1019		SHEET NAME: SV-4
SCALE 1" = 30'			CLIENT NAME: IO ENVIRONMENTAL, INC.		
MDC PROJECT NO.: 17-652			 PROFESSIONAL LAND SURVEYORS 2320 MOTTMAN RD SW, SUITE 106 TUMWATER, WA 98512 360.239.1497		SHEET NO. 4 OF 8
DRAWN: JHK					
CHECKED: BEP					
APPROVED: BEP					



DATUM

VERTICAL - NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019

SURVEY NOTES

1. INSTRUMENT USED: SOKKIA SRX 3 TOTAL STATION.
2. SURVEY COMPLETED 12/01/2017
3. MAPPING SHOWN IS BEFORE ROCK. COMPLETED 10/24/2017

MONUMENT NOTES

1. MTN2COAST CONTROL POINT NO. 27, PK NAIL IN SIDEWALK AT NE QUADRANT OF INTERSECTION OLYMPIA AVE NE AND JEFFERSON ST NE. ELEV=14.40

DATE	12/01/2017
SCALE	1" = 30'
WZC PROJECT NO.	17-652
DRAWN	JHK
CHECKED	BEP
APPROVED	BEP



MTN2COAST
 PROFESSIONAL LAND SURVEYORS
 2320 MOTTMAN RD SW, SUITE 106
 TUMWATER, WA 98512
 360.239.1497

PROJECT NAME:
**EAST BAY PARCELS CLEANUP
 PARCEL 9
 PROJECT NO. ENV1303
 CONTRACT NO. 2017-1019**

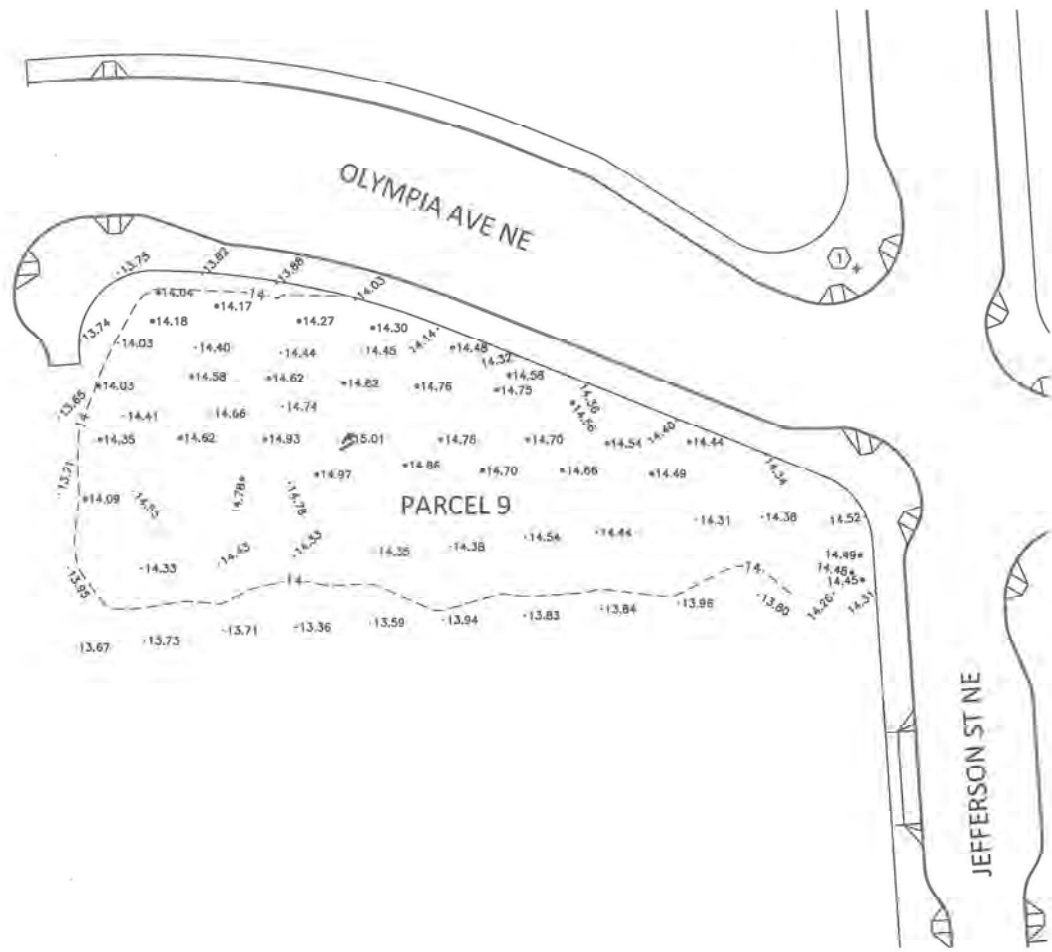
CLIENT NAME:
 IO ENVIRONMENTAL, INC.

SHEET NAME:
SV-5

SHEET NO. 5 OF 6

BEFORE ROCK

12/17/17



DATUM

VERTICAL - NAVD 88 BASED ON PORT OF OLYMPIA, EAST BAY PARCEL CLEANUP PLANS, PROJECT NO. ENV1303, CONTRACT NO. 2017-1019

SURVEY NOTES

1. INSTRUMENT USED: SOKKIA SRX-3 TOTAL STATION.
2. SURVEY COMPLETED 12/01/2017
3. MAPPING SHOWN IS AFTER ROCK, COMPLETED 11/30/2017

MONUMENT NOTES

1. MTN2COAST CONTROL POINT NO. 27, PK NAIL IN SIDEWALK AT NE QUADRANT OF INTERSECTION OLYMPIA AVE NE AND JEFFERSON ST NE. ELEV=14.40

DATE 12/01/2017			AFTER ROCK		SHEET NAME: SV-6	
SCALE 1" = 30'				PROJECT NAME: EAST BAY PARCELS CLEANUP PARCEL 9		
M2C PROJECT NO.: 17-652				PROJECT NO. ENV1303 CONTRACT NO. 2017-1019		
DRAWN JHK				CLIENT NAME: IO ENVIRONMENTAL, INC.		
CHECKED BEP				PROFESSIONAL LAND SURVEYORS 2320 MOTTMAN RD SW, SUITE 106 TUMWATER, WA 98512 360.239.1497		
APPROVED BEP						
				SHEET NO. 6 OF 8		

Appendix E

1982 Fill Boundary Confirmation Documentation

Contents:

- **Photographic Log**
- **Field Notes**

Photographic Log

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Photo No. 20c: 1982 Fill Confirmation Hole 20..... 29

Photographic Log

Photo No. 1a: 1982 Fill Confirmation Hole 1

Date: 7/18/17

Description:
Soil cross-section of Confirmation Hole.



Photo No. 1b: 1982 Fill Confirmation Hole 1

Date: 7/18/17

Description:
Excavated spoils from Confirmation Hole.



Photographic Log

<p>Photo No. 1c: 1982 Fill Confirmation Hole 1</p>	
<p>Date: 7/18/17</p>	
<p>Description: Obstruction – concrete (see field notes)</p>	

<p>Photo No. 2a: 1982 Fill Confirmation Hole 2</p>	
<p>Date: 7/18/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

Photo No. 2b: 1982 Fill Confirmation Hole 2

Date: 7/18/17

Description:
Excavated spoils from Confirmation Hole.



Photo No. 2c: 1982 Fill Confirmation Hole 2

Date: 7/18/17

Description:
Obstruction – concrete (see field notes)



Photographic Log

Photo No. 3a: 1982 Fill Confirmation Hole 3	
Date: 7/18/17	
Description: Soil cross-section of Confirmation Hole.	

Photo No. 3b: 1982 Fill Confirmation Hole 3	
Date: 7/18/17	
Description: Excavated spoils from Confirmation Hole.	

Photographic Log

Photo No. 4a: 1982 Fill Confirmation Hole 4

Date: 7/18/17

Description:
Soil cross-section of Confirmation Hole.



Photo No. 4b: 1982 Fill Confirmation Hole 4

Date: 7/18/17

Description:
Excavated spoils from Confirmation Hole.



Photographic Log

Photo No. 5a: 1982 Fill Confirmation Hole 5	
Date: 7/18/17	
Description: Soil cross-section of Confirmation Hole.	

Photo No. 5b: 1982 Fill Confirmation Hole 5	
Date: 7/18/17	
Description: Excavated spoils from Confirmation Hole.	

Photographic Log

Photo No. 6a: 1982 Fill Confirmation Hole 6	
Date: 7/18/17	
Description: Soil cross-section of Confirmation Hole.	

Photo No. 6b: 1982 Fill Confirmation Hole 6	
Date: 7/18/17	
Description: Excavated spoils from Confirmation Hole.	

Photographic Log

Photo No. 7a: 1982 Fill Confirmation Hole 7

Date: 7/18/17

Description:
Soil cross-section of Confirmation Hole.



Photo No. 7b: 1982 Fill Confirmation Hole 7

Date: 7/18/17

Description:
Soil cross-section of Confirmation Hole.



Photographic Log

Photo No. 7c: 1982 Fill Confirmation Hole 7	
Date: 7/18/17	
Description: Excavated spoils from Confirmation Hole.	

Photo No. 8a: 1982 Fill Confirmation Hole 8	
Date: 7/19/17	
Description: Soil cross-section of Confirmation Hole.	

Photographic Log

Photo No. 8b: 1982 Fill Confirmation Hole 8	
Date: 7/19/17	
Description: Soil cross-section of Confirmation Hole.	

Photo No. 8c: 1982 Fill Confirmation Hole 8	
Date: 7/19/17	
Description: Excavated spoils from Confirmation Hole.	


Photographic Log

Photo No. 9a: 1982 Fill Confirmation Hole 9	
Date: 7/19/17	
Description: Soil cross-section of Confirmation Hole.	

Photo No. 9b: 1982 Fill Confirmation Hole 9	
Date: 7/19/17	
Description: Soil cross-section of Confirmation Hole.	

Photographic Log

<p>Photo No. 9c: 1982 Fill Confirmation Hole 9</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

<p>Photo No. 10a: 1982 Fill Confirmation Hole 10</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 10b: 1982 Fill Confirmation Hole 10</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

<p>Photo No. 11a: 1982 Fill Confirmation Hole 11</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

Photo No. 11b: 1982 Fill Confirmation Hole 11

Date: 7/19/17

Description:
Excavated spoils from Confirmation Hole.



Photo No. 12a: 1982 Fill Confirmation Hole 12

Date: 7/19/17

Description:
Soil cross-section from Confirmation Hole.



Photographic Log

<p>Photo No. 12b: 1982 Fill Confirmation Hole 12</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

<p>Photo No. 13a: 1982 Fill Confirmation Hole 13</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 13b: 1982 Fill Confirmation Hole 13</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

<p>Photo No. 14a: 1982 Fill Confirmation Hole 14</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 14b: 1982 Fill Confirmation Hole 14</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 14c: 1982 Fill Confirmation Hole 14</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 14d: 1982 Fill Confirmation Hole 14</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

<p>Photo No. 15a: 1982 Fill Confirmation Hole 15</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 15b: 1982 Fill Confirmation Hole 15</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 15c: 1982 Fill Confirmation Hole 15</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 16a: 1982 Fill Confirmation Hole 16</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 16b: 1982 Fill Confirmation Hole 16</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

Photo No. 16c: 1982
Fill Confirmation Hole
16

Date: 7/19/17

Description:
Excavated spoils from
Confirmation Hole.



Photo No. 16d: 1982
Fill Confirmation Hole
16

Date: 7/19/17

Description:
Excavated spoils from
Confirmation Hole.



Photographic Log

<p>Photo No. 17a: 1982 Fill Confirmation Hole 17</p>	
<p>Date: 7/19/17</p>	
<p>Direction Photo Taken: Enter Text</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 17b: 1982 Fill Confirmation Hole 17</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

Photo No. 17c: 1982
Fill Confirmation Hole
17

Date: 7/19/17

Description:
Excavated spoils from
Confirmation Hole.



Photo No. 18a: 1982
Fill Confirmation Hole
18

Date: 7/19/17

Description:
Soil cross-section of
Confirmation Hole.



Photographic Log

<p>Photo No. 18b: 1982 Fill Confirmation Hole 18</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 18c: 1982 Fill Confirmation Hole 18</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

Photographic Log

<p>Photo No. 19a: 1982 Fill Confirmation Hole 19</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 19b: 1982 Fill Confirmation Hole 19</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

Photographic Log

Photo No. 19c: 1982
Fill Confirmation Hole
19

Date: 7/19/17

Description:
Excavated spoils from
Confirmation Hole.



Photo No. 20a: 1982
Fill Confirmation Hole
20

Date: 7/19/17

Description:
Soil cross-section of
Confirmation Hole.



Photographic Log

<p>Photo No. 20b: 1982 Fill Confirmation Hole 20</p>	
<p>Date: 7/19/17</p>	
<p>Description: Soil cross-section of Confirmation Hole.</p>	

<p>Photo No. 20c: 1982 Fill Confirmation Hole 20</p>	
<p>Date: 7/19/17</p>	
<p>Description: Excavated spoils from Confirmation Hole.</p>	

PIONEER DAILY FIELD REPORT

Date: ~~7/17/17~~ 7/18/17 Site Location: East Bay Parcels Site Arrival Time: 9:00 am Site Departure Time: 5:00 pm

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather McPherson	PIONEER	9:15 am - 5 pm
Levi Fernandez	PIONEER	8:15 am - 5 pm

NOTES ON WORK COMPLETED

9:15 am Safety tailgate meeting and PPE
 9:45 am Marked Lot 1 dig spots/measured
 10:00 am Began digging w/ hand tools and ~~the~~ two-person auger
 10:30 am Two-person auger not very helpful/efficient, used hand tools and called for jack hammer rental
 ↳ continued w/ jack hammer (w/ hearing protection) and manual/hand soil removal
 ↳ able to get ~4 holes to 1-ft depth in Lot 1 (lots of quarry spalls, gravel, mixed with fines)
 ~12:30 pm Troy Bussey stopped by to discuss soil types
 1:30 pm Port staff arrived with track hoe operator (Jack) was 40-hour HAZWOPER trained
 1:45 pm Continued digging holes throughout Lot 1 and part of parcels 6/7 area (along fill boundary); logged info on soil info throughout dig area in Lot 1
 3:00 pm Began to backfill all lot 1 holes (didn't want to leave them open, and had finished collecting information); placed plywood and cones over holes in parcels 6/7
 4:00 pm Finished logging Lot 1 soil data backfilled last few holes began cleanup/demobilization
 5:00 pm Left the site

SIGNATURE: Heather McPherson

DATE: 7/18/17

PIONEER DAILY FIELD REPORT

Date: 7/19/17 Site Location: East Bay Parcels Site Arrival Time: 7:00 am Site Departure Time: 1:15 pm

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Heather McPherson	PIONEER	7:15 am - 1:15 pm
Levi Fernandes	PIONEER	7:00 am - 1:15 pm
Don Bacha	Port of Olympia	8:15 am - 12:00 pm
Tyson Carpenter	Port of Olympia	9:15 am - 1:00 pm

NOTES ON WORK COMPLETED

8:15 am Had safety talk (along with Don Bacha from Port - operating track hoe today)

8:30 am Began digging w/ track hoe in parcels 2/3 area along fill boundary

→ Note: when marking digging spots along boundary near southern portion of parcel 2, shifted 2 spots north to avoid utilities area (lots of TV/fiber optics/telephone cables, want to provide buffer for track hoe), no end point hole

11:00 am After finishing digging/logging details/back filling holes, moved equipment to dig last holes at parcels 6/7

11:30 am Began work at parcels 6/7

12:30 am Finished digging and logging details for remaining holes, began last of back filling

1:00 pm Cleaned up / secured site gates, loaded equipment back into vehicles

~~1:15 pm~~ 1:15 pm Left site

SIGNATURE: Heather McPherson

DATE: 7/19/17

7/18/17
1:45 pm

Field Notes @ East Bay Parcels

Hole 1 • Location: Lot 1, NW point adjacent to fence (where 1982 fill boundary transect survey line begins)

- Dug with hand tools then track hoe
- Hit obstruction - layer of light-colored concrete - about 0.97 ft bgs (~11.5 inches); appears to be entire concrete layer (not crumbled)
- Soil Layer Composition:

- surface: dry grass, weeds

~~0.35 ft bgs~~ 0-4 inches bgs

~~0.35 ft bgs~~ bgs: roots, gravel, fines

- soil (throughout ^{fine} depth of excavation) is dry, light-colored (tan fines w/ varied grey-ish gravel of various sizes)

- observed: approx. 3 in. x 4 in. (area) piece of thin plywood excavated

~~0.35 ft bgs~~

4 in. - 11.5 in. bgs

~~0.35 ft bgs~~ - 0.97 ft bgs: compacted mixture of gravel, few cobbles, sand/fines

7/18/17

East Bay Parcels

Hole 2 • Location: within NW section of Lot 1 ~~at~~ 50 ft along boundary from Hole 1

- Total depth: 12.5 in.
- Obstruction at 12.5 in. - seems to be non-flat layer of concrete / concrete pipe (?)

Layer composition:

- surface: gravel cover
- 0-4.5 in. ^{of} gravel with some fines, light grey
- 4.5 in. - 12.5 in. ^{of} slightly larger gravel with some fines, light grey

* all soil dry

- some large cobbles observed in spoils pile
- some asphalt chips observed in spoils

Hole 3 • Location: ~ close to center of Lot 1 50 ft from Hole 2 along Bill boundary

- Total Depth: 18 in., no obstruction
- Some concrete conglomerates observed in spoil pile
- Layer composition:

- surface: gravel cover

- all soil: dry

- 0-5 in. ^{of} extremely light grey gravel with some equally light grey fines

- 5-18 in.: slightly larger gravel with fines, still light grey ^{but a} darker

7/18/17

East Bay Parcels

Hole 4 • Location: getting toward Eastern portion
of Lot 1 curved boundary, 50 ft from Hole 3
fill (Southeast) ^{most}

• Total Depth: 23 in.

(no obstruction after going through asphalt)

• Went through intact layer of asphalt ~

• Moisture band observed at asphalt layer

• Layer composition:

- Surface: gravel cover

- 0-5 in. ^{lbs} gravel / fines, light colored / greyish

- 5-7 in. ^{lbs} layer of asphalt (dark)

- 7 in. - 23 in. ^{lbs} larger gravels w/ some cobble, fines,
light grey

Hole 5 • Location: 50 ft E of Hole 4,
still near center of Lot 1

• Total depth: 23 in.

(no obstructions)

• Large cobbles observed in spoils

• Layers:

- Surface: gravel, wood debris

- 0-7 in. ^{lbs}: smaller light grey gravel w/
fines

- 7-23 in. ^{lbs}: slightly larger light grey gravel
with some cobble, also light
grey

* all very compacted

7/18/17 East Bay Parcels

Hole 6 • Location: near the southern sidewalk of Lot 1, at northern section of existing construction entrance (quarry spall Zone), mid-south/southeastern part of Lot 1, 50 ft SE of Hole 5

• Total Depth: 21 inches
(no obstruction)

• Layers:

- surface: quarry spalls, small-medium light grey gravel, some dry grass/vegetation
- 0-4.5 in. bgs: light grey gravel and fines
- 4.5-10 in. bgs: quarry spalls (angular), compacted with some fines, light-grey
- 10-21 in. bgs: gravel (light grey) mixed with some fines, very compacted, some cobble
↳ fines also light grey/tan

Hole 7 • Location: at edge of Lot 1, adjacent to southern sidewalk/construction entrance (eastern portion of entrance), less than 50 ft from Hole 6 (~ 1 ft from Hole 6)

• Total Depth: 21 in.
(no obstruction)

• Layers: ~~2~~

- surface: gravel (light grey), some dry vegetation

7/18/17

East Bay Parcels

Hole 7 (continued)

all soil dry

- 0-6 in. bgs: light grey gravel and fines, some roots, compacted
- 6-21 bgs: light grey gravel (some slightly larger, some cobble), compacted

7/19/17

Field Notes at East Bay Parcels

3rd hole
from
N. part
Parcel 2

Hole 16 • Location: In northwest portion of Parcel 2, 3rd hole from Northern boundary of Parcel 2 (50 ft from Hole 15)

- Total depth: 20.5 inches
(no obstructions though highly compacted)

• Layers:

- Surface: dry vegetation with some bare soil and gravel

rounded gravel

→ - 0-3 in. bgs: light grey gravel with some light grey sand/fines, roots, dry

sandy gravel with fines

→ - 3 in. - 20.5 in.: light grey gravel, some light grey sand/fines, some cobble up to 7 inches in diameter

mostly with uniform depth, well-graded

- soil becomes slightly moist about 12 in. bgs (damp)

2nd hole
from N.
part Parcel 2

Hole 15 • Location: NW portion of Parcel 2, 50 ft from Hole 14 at N. fence line

- Total Depth: 18 in. (no obstructions)

• Layer composition:

- Surface: dry veg., top soil, some gravel, moss

- 0-1 in. bgs: top soil, roots, sandy gravel with fines (light grey)

- 1-18 in. bgs: light grey, compacted/hard to dig, rounded sandy gravel with fines (pretty uniform), some cobbles up to ~ 5 inches, dry

Field Notes from East Bay parcels

7/19/17

about 5 ft from

Note 14 | Location: ~~at~~ [↑] fence line at Northern portion of Parcel 2 (along surveyed boundary)

• Total depth: 19 inches

(no obstructions other than large cobble)

• Layer composition:

- surface: dry grass, moss, some gravel

- 0-4 in. bgs: light grey sandy gravel w/ fines, roots

- band of moisture noted ~~at~~ from 6.5 in. bgs to 9 in. bgs (2.5-in. thick)

- ~~at~~ 4-19 in. bgs: sandy ^{light} grey gravel with fines, some moisture / slightly damp, rounded, some cobble up to 8 in., fairly compacted

• concrete conglomerate observed in spoils pile

Note 17 | Location: 50 ft South of Hole 16, about midway between N. and S. fences of Parcel 2, on fill boundary surveyed line

• Total Depth: 22 inches

(no obstructions)

• Layer composition:

- surface: dry veg., top soil

- 0-5 in. bgs: light grey sandy gravel with fines, roots

- 5-22 in. bgs: light grey sandy ^{rounded} gravel with fines, ^{rounded} cobbles up to about 7 in., well-graded

- some damp soil visible at bottom of test pit

Hole 18 • Location: close to SW portion of Parcel 2, on fill boundary surveyed line, 50 ft south of Hole 17

• Total Depth: 19 inches
(no obstructions)

• Layer Composition:

- surface: dry veg, top soil
- 0-3 in. bgs: roots, top soil, light grey ^{sandy} gravel with fines
- 3-19 in. bgs: light grey sandy gravel, rounded, some fines, well-graded, some cobble up to size 8 in., appears dry

Hole 19 • Location: near SW ~~corner~~ portion of Parcel 2, on fill boundary surveyed line at turn in line, ~50 ft S/SE of Hole 18

• Total Depth: 20 in.
(no obstruction)

• Layer Composition: (not all dead/dry)

- surface: veg, top soil, some bare soil
- 0-5 in. bgs: top soil, roots, rounded light grey ^{sandy} gravel with fines
- 5-20 in. bgs: light grey sandy gravel with fines, rounded, well-graded, some cobble up to diameter 8 in., light grey to light brown
- Soil becomes moist at 12 in. bgs

Hole 20 • Location: closer to SE portion of Parcel 2, slightly north of surveyed boundary line due to utilities nearby

- Total Depth: 18.5 m.
- Some concrete rubble to dig through (concrete conglomerates)

• Layers:

- Surface: veg., top soil/bare soil
- 0-5 in. bgs: top soil, roots, light grey ^{sandy} gravel with some fines
- 5-18.5 in. bgs: light grey sandy gravel with some fines, rounded (gravels), well-graded, compacted, some cobble up to size 5 inches
- rebar at 10 in. bgs
- black plastic layer throughout test pit about 12 inches bgs
- Debris in general (plastic scraps, rusty wire segment)

Parcels 6/7

Hole 8

• Location: about 2 ft south of sidewalk at Northern boundary of Parcel 7, on 1982 fill boundary surveyed line

• Total Depth: 21 in.

(no obstructions)

• Layers:

- surface: veg., top soil, some gravel
- 0-4 in. bgs: top soil, roots, light grey sand gravel with fines, black plastic layer scraps
- 4-21 in. bgs: compacted light grey sandy gravel with fines, some cobble (up to 7 in.), some angular quarry spalls/rip rap pieces, overall well-graded/relatively uniform

Hole 9

• Location: about 50 ft S/SE of Hole 8, still near northern portion of Parcel 7, on surveyed fill boundary line

• Total Depth: 24 in.

(no obstructions)

• Layers:

- surface: dry veg., top soil, some gravel
- 0-2 in. bgs: plastic layer (black plastic, just below surface top soil), light grey sandy gravel with fines, roots
- 2-24 in. bgs: grey to light brown sandy quarry spalls, angular, 6-inch minus material