

**CITY OF
MILWAUKIE**

APPROVED FOR
CONSTRUCTION

Jennifer Garbely

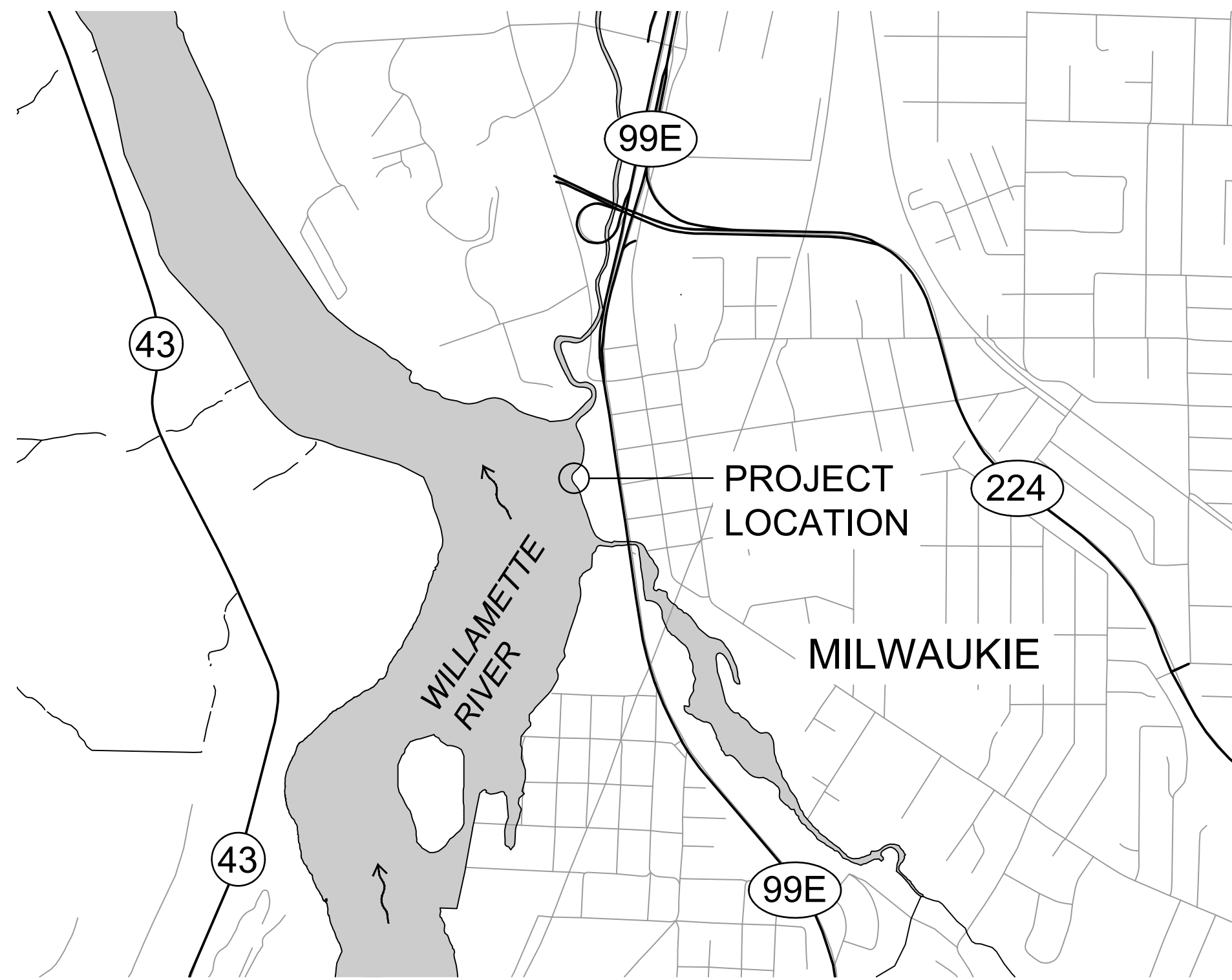
Asst. City Engineer

July 25, 2018

Date

RIVERFRONT PARK BANK REPAIR
CITY OF MILWAUKIE, OREGON

BID SET
JUNE 2018



VICINITY MAP

1" = 1000' (FOR 22" x 34" SHEETS)



DRAWING INDEX

- G0.0 COVER
- G1.0 GENERAL NOTES AND LEGEND
- G2.0 EROSION CONTROL NOTES

- E1.0 EXISTING CONDITIONS SURVEY

- C1.0 CONSTRUCTION ACCESS AND STAGING PLAN
- C1.1 PEDESTRIAN DETOUR PLAN
- C2.0 MATERIALS PLAN
- C3.0 LAYOUT PLAN
- C4.0 EROSION CONTROL AND GRADING PLAN

- C4.1 SECTIONS
- C5.0 STORM PIPE PLAN AND PROFILE
- C5.1 STORM PIPE DETAILS

- L1.0 REVEGETATION PLAN
- L2.0 IRRIGATION PLAN

- D1.0 SITE DETAILS
- D2.0 EROSION CONTROL DETAILS
- D3.0 DETAILS

OWNER

OWNER



CITY OF MILWAUKIE

10722 SE MAIN STREET
MILWAUKIE, OR 97222
OFFICE: (503) 786-7555

CONTACT: JENNIFER GARBELY, PE

PROJECT TEAM

LANDSCAPE ARCHITECT / ENGINEER / TEAM MANAGER



ESA
819 SE MORRISON ST, SUITE 310
PORTLAND, OR 97214
(503) 274-2010 FAX: (503) 274-2024

CONTACT: STEVE ROELOF, RLA
MAURIA PAPPAGALLO, PE

SURVEYOR



STATEWIDE LAND SURVEYING
43 NW AVA AVENUE
GRESHAM, OR 97030
(503) 665-7777

CONTACT: GREG ENGELGAU

NOTICE TO EXCAVATORS:
ATTENTION: 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 THE RULES BY CALLING THE
CENTER.
(NOTE: THE TELEPHONE NUMBER FOR
THE OREGON UTILITY NOTIFICATION
CENTER IS (503)-232-1987.)

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.
Call the Oregon One-Call Center
1-800-332-2344

GENERAL NOTES:

- IN-WATER WORK WINDOW: JULY 1 - OCTOBER 31 AND DECEMBER 1 - JANUARY 31. ALL WORK BELOW THE ORDINARY HIGH WATER LINE (OHW) WILL OCCUR DURING THE IN-WATER WORK WINDOW.
- HORIZONTAL DATUM: DAVID EVANS AND ASSOCIATES CONTROL ID NO. 9 AND NO. 23. CONTROL X, Y, AND Z INFORMATION WAS OBTAINED FROM PLAN "PHASE 2 - BOAT RAMP AND PATHWAY CITY OF MILWAUKIE" DATED APRIL 2014.
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- SITE TOPOGRAPHY BASED ON JANUARY 2017 SURVEY CONDUCTED BY STATEWIDE LAND SURVEYING.
- CONTRACTOR IS RESPONSIBLE FOR MEETING ALL CITY & STATE TRAFFIC SIGNAGE AND/OR FLAGGING REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR MEETING ALL PERMIT REQUIREMENTS. ANY FINES INCURRED DUE TO PERMIT VIOLATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS REQUIRED TO SECURE A CITY OF MILWAUKIE EROSION CONTROL AND GRADING PERMITS AS WELL AS AN OREGON DEPARTMENT OF FISH AND WILDLIFE SCIENTIFIC TAKE PERMIT. THE CITY WILL BE RESPONSIBLE FOR ALL APPLICATION FEES.
- THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND OBSERVING SITE CONDITION IN ALL WORK AREAS PRIOR TO BIDDING.
- ALL QUANTITY ESTIMATES ARE APPROXIMATE.
- THE LOCATION AND AND DESCRIPTION OF UTILITIES AND PROPERTY LINES SHOWN ARE COMPLIED FROM AVAILABLE RECORDS AND FIELD SURVEYS. THE CITY AND UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF SUCH RECORDS.
- THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES IN THE PLANS. WHEN ERRORS, OMISSIONS OR DISCREPANCIES ARE FOUND, THE ENGINEER SHALL BE NOTIFIED. WORK PERFORMED BY THE CONTRACTOR AS A RESULT OF AN ERROR, OMISSION OR DISCREPANCY IN THE PLANS SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE WHEN SUCH ERROR, OMISSION, OR DISCREPANCY HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL HAVE AT ALL TIMES ON SITE, THE APPROVED CONSTRUCTION PLANS AND SPECIAL SPECIFICATIONS, ODOT STANDARD SPECIFICATIONS AND STANDARD PLANS, PERMIT DOCUMENTS, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS AND MANUALS.
- THE CONTRACTOR SHALL REMOVE ALL MATERIALS EXCAVATED FROM WORK IN THE LIMITS AND DISPOSE AT A PROPER LANDFILL. FOR ON-SITE DISPOSAL ON PRIVATE PROPERTY, SECURE A FILL PERMIT FROM THE AGENCY HAVING JURISDICTION PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PROVIDE 2 WEEKS NOTICE TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- ANY LANDSCAPING/TREES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED IN CONFORMANCE WITH CITY OF MILWAUKIE STANDARDS.
- CONTRACTOR SHALL NOT USE THE PUBLIC RIGHT-OF-WAY FOR STORAGE OF EQUIPMENT, MATERIALS, CONSTRUCTION TRAILERS, OR CONSTRUCTION VEHICLES.
- CONTRACTOR SHALL INSTALL, UTILIZE, AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE EROSION PREVENTION & SEDIMENT CONTROL PLAN.

UTILITIES:

- ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED B 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 CALL CENTER. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION. CALL 503.246.6699 OR 1.800.332.2344.
- UTILITY LOCATIONS SHALL BE VERIFIED BY OREGON UTILITIES NOTIFICATION CENTER IMMEDIATELY PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UTILITY LOCATE MARKINGS FOR THE DURATION OF THE PROJECT.
- PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. THE UTILITY OWNER SHALL BE NOTIFIED IN THE EVENT OF DAMAGE. REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- FOR ANY EXISTING UNDERGROUND UTILITY CONFLICTING WITH PROPOSED IMPROVEMENTS, CONTRACTOR SHALL COORDINATE PROTECTION OR RELOCATION WITH UTILITY COMPANY.
- UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMITS. UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE CITY FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

TRAFFIC CONTROL

- ALL SIGNING, STRIPING AND BARRICADES TO BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR WORK IN THE RIGHT-OF-WAY OR WORK THAT AFFECTS TRAFFIC CIRCULATION WITHIN THE PARK AT THE PRE-CONSTRUCTION MEETING.
- ALL TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND 2011 EDITION OF THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK (OTTCH) FOR OPERATIONS OF THREE DAYS OR LESS.
- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THIS PLAN THROUGHOUT THE DURATION OF CONSTRUCTION.
- TRAFFIC CONTROL SIGNS SHALL BE SIZED IN ACCORDANCE WITH CONVENTIONAL ROADWAY STANDARDS OF THE MUTCD.

ABBREVIATIONS

AC	ASPHALT CONCRETE	MIN	MINIMUM
APPROX	APPROXIMATELY	MP	MILE POST
AVG	AVERAGE	MPH	MILES PER HOUR
BOT	BOTTOM	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
BVCE	BEGINNING VERTICAL CURVE ELEVATION	N	NORTHING
BVCS	BEGINNING VERTICAL CURVE STATION	N-S	NORTH TO SOUTH
CI	CUBIC INCH	NAD83	NORTH AMERICAN DATUM OF 1983
CL	CENTER LINE	NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
CP	CONTROL POINT	NE	NORTHEAST
CULV	CULVERT	NIC	NOT IN CONTRACT
CY	CUBIC YARD	NO	NUMBER
DIA(M)	DIAMETER	NTS	NOT TO SCALE
DIR	DIRECTION	NW	NORTHWEST
DTL	DETAIL	OC	ON CENTER
D/S	DOWNSTREAM	ODOT	OREGON DEPARTMENT OF TRANSPORTATION
DWG	DRAWING	OHW	ORDINARY HIGH WATER
E	EASTING	PC	POINT OF CURVATURE
EC	EROSION CONTROL	PCF	POUNDS PER CUBIC FOOT
EG	EXISTING GRADE	PG	PERFORMANCE GRADE
EL(EV)	ELEVATION	PI	POINT OF INTEREST
EX(IIST)	EXISTING	PSI	POUNDS PER SQUARE INCH
FESL	FABRIC ENCAPSULATED SOIL LIFT	PT	POINT
FG	FINISH GRADE	PVI	POINT OF VERTICAL INTERSECT
FT	FOOT, FEET	RD	ROAD
H(ORZ)	HORIZONTAL	REF	REFERENCE
HMA	HOT MIX ASPHALT	ROW	RIGHT-OF-WAY
HWY	HIGHWAY	RT	RIGHT
IE	INVERT ELEVATION	S	SLOPE
IN	INCH	SD	STORM DRAIN
INCL	INCLUDE	SE	SOUTHEAST
K	KIP	SHT	SHEET
LB(S)	POUND	SPEC	SPECIFICATION
LF	LINEAR FOOT	STA	STATION
LT	LEFT	STD	STANDARD
MAX	MAXIMUM	SW	SOUTHWEST
MGMT	MANAGEMENT	TBD	TO BE DEVELOPED
		TYP	TYPICAL
		TW	TOP OF WALL
		U/S	UPSTREAM
		V(ERT)	VERTICAL
		VC	VERTICAL CURVE
		W/	WITH

819 SE Morrison St,
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222
RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date 6/6/18	Designed By SAR, MJP
Drawn By DNR	Checked By JGR

Sheet Name

GENERAL NOTES AND LEGEND

Sheet No.

G1.0

Project No.:
D160484.00

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. WHEN RAINFALL AND RUNOFF OCCUR, DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE OUTFALLS MUST BE PROVIDED BY SOME ONE KNOWLEDGEABLE AND EXPERIENCED IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE CONTRACTOR. CONTRACTOR TO PROVIDE NAME AND CONTACT INFORMATION FOR THIS PERSON AT PRE-CONSTRUCTION CONFERENCE.
2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR.
3. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY.
4. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
5. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. UNLESS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABLE, U-SHAPED FILTER BAG IS REQUIRED FOR ALL CURB INLET CATCH BASINS.
6. SEDIMENT WHICH LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PREFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME.
7. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
8. SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3RD THE BARRIER HEIGHT, AND PRIOR TO THE CONTROL MEASURES REMOVAL.
9. CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
10. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
11. THE CONTRACTOR MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
12. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH CURRENT CITY, STATE, AND FEDERAL REGULATIONS.
14. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE CONTRACTOR MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT.
15. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPs THAT MUST BE INSTALLED ARE SEDIMENT BARRIER TYPE 3, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMPs MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
16. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN OCTOBER 1ST; THE TYPE AND PERCENTAGES OF SEED IN THE MIX ARE IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT.
17. WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. CONTRACTOR WILL DRAIN SATURATED SOILS ON SITE AT A DESIGNATED LOCATION, APPROVED BY THE ENGINEERS, USING APPROPRIATE BMPs; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
18. ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
19. THE ESC PLAN MUST BE KEPT ONSITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT LEAVE THE CONSTRUCTION SITE AND ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
20. THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS.
21. WRITTEN ESC LOGS ARE TO BE MAINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST.
22. IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPs MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.
23. ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD.
24. ALL COMPLETED AREAS WITHIN THE CONSTRUCTION SITE MUST BE STABILIZED WITH PERMANENT EROSION CONTROL MEASURES.

819 SE Morrison St,
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date	Designed By
6/6/18	SAR, MJP
Drawn By	Checked By
DNR	JGR

Sheet Name

EROSION CONTROL NOTES

Sheet No.

G2.0

Project No.:
D160484.00

CONDITIONS SURVEY

A PORTION OF MILWAUKIE RIVER FRONT

SITUATED IN THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 1 SOUTH, RANGE 1 EAST OF THE WILLAMETTE MERIDIAN, CITY OF MILWAUKIE, COUNTY OF CLACKAMAS, STATE OF OREGON.

BASIS OF BEARING

SEE HORIZONTAL DATUM THIS SHEET

SCALE: 1" = 20'



VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM OF 88 (NAVD88)

HORIZONTAL DATUM

DAVID EVANS AND ASSOCIATES CONTROL ID NO. 9 AND NO. 23. CONTROL X, Y, AND Z INFORMATION WAS OBTAINED FROM PLANS "PHASE 2—BOAT RAMP AND PATHWAY CITY OF MILWAUKIE" DATED APRIL 2014.

NO. 9 N: 9654485.60' E: 7653029.87' Z: 34.56'

NO. 23 N: 655553.28' E: 7652919.47' Z: 51.40'

SITE BENCHMARKS

STATEWIDE LAND SURVEYING INC CONTROL ID NO. 2 AND CONTROL ID NO. 3. SAID POINTS BEING MAG NAILS SET ON CONCRETE WALK AS SHOWN.

NO. 2 N: 654993.46' E: 7652977.97' Z: 42.97'

NO. 3 N: 655069.76' E: 7652752.54' Z: 25.72'

BENCHMARK

DAVID EVANS AND ASSOCIATES CONTROL ID NO. 9. ELEVATION WAS OBTAINED FROM PLANS "PHASE 2—BOAT RAMP AND PATHWAY CITY OF MILWAUKIE" DATED APRIL 2014. ELEVATION OF MARK IS 34.56 FEET.

LEGEND

- = ANCHOR
- = ACCESS LID
- = BENCHMARK (SWLS) AS NOTED
- = BOULDER
- = CONCRETE
- = ELEVATION
- = ELECTRIC BOX
- = FIRE HYDRANT
- = GROUND LIGHTING
- = INVERT ELEVATION
- = IRRIGATION BOX
- = IRRIGATION CONTROL VALVE
- = LIGHT POLE
- = MANHOLE AS NOTED
- = MONITORING WELL
- = POWER POLE
- = ROOT/STUMP
- = SIGN POST
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WHEEL CHAIR RAMP
- = WATER VALVE
- = EDGE OF WATER
- = LOG
- = METAL HAND RAIL
- = BOULDER ROCKERY WALL
- = SILT SOCKS
- = ASPHALT SURFACE
- = CONCRETE SURFACE
- = PAVER SURFACE
- = ELECTRIC AS PAINTED
- = OVERHEAD LINES (TYPE UNKNOWN)
- = SANITARY SEWER AS PAINTED
- = SANITARY SEWER SCALED FROM MAPS (APPROX)
- = TELEPHONE AS PAINTED
- = WATER AS PAINTED

TREES

- = TREE AS NOTED
- = CEDAR AS NOTED

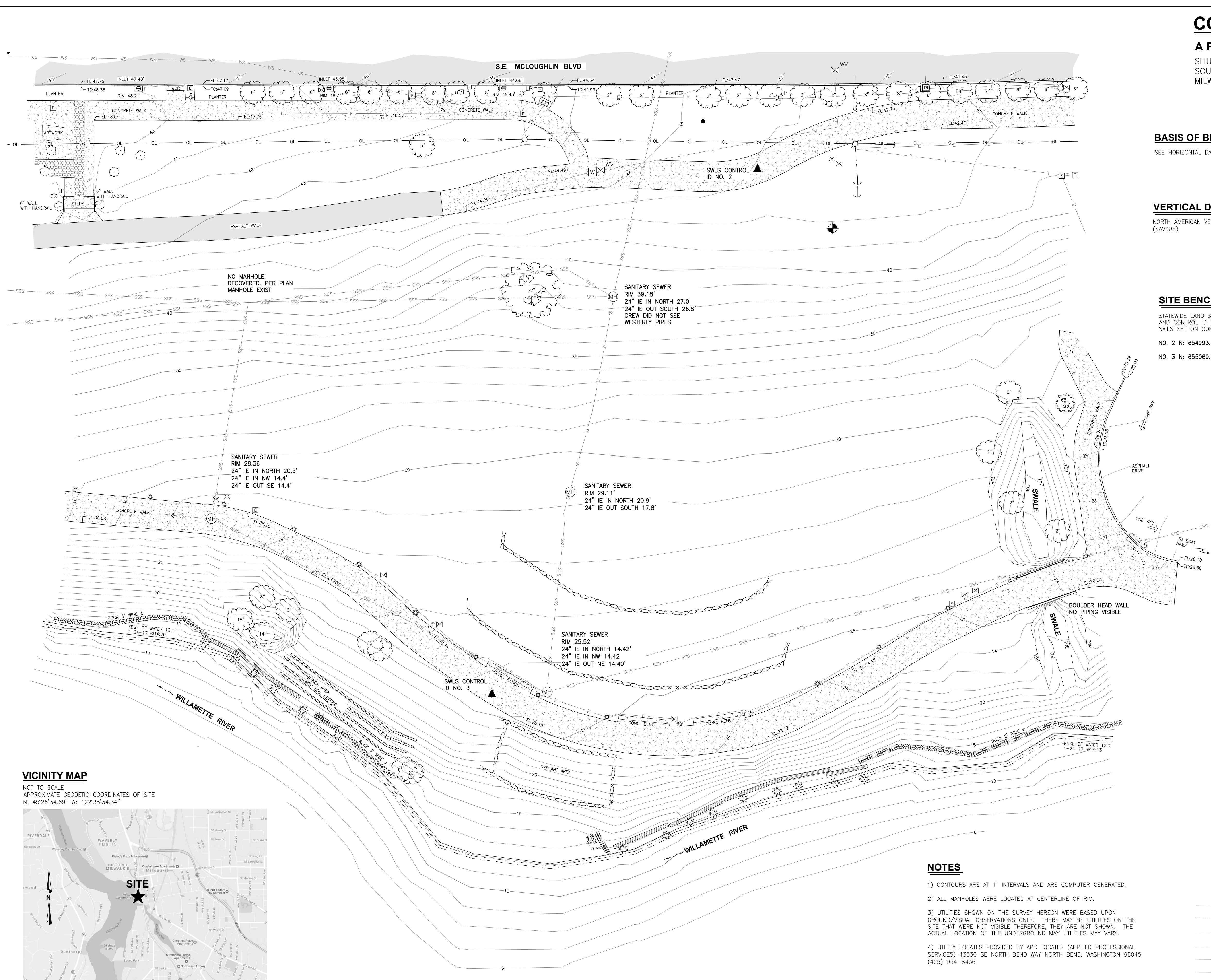
SURVEYED FOR

ESA—PORTLAND
819 SE MORRISON ST STE 310
PORTLAND, OREGON 97214
503-274-2010

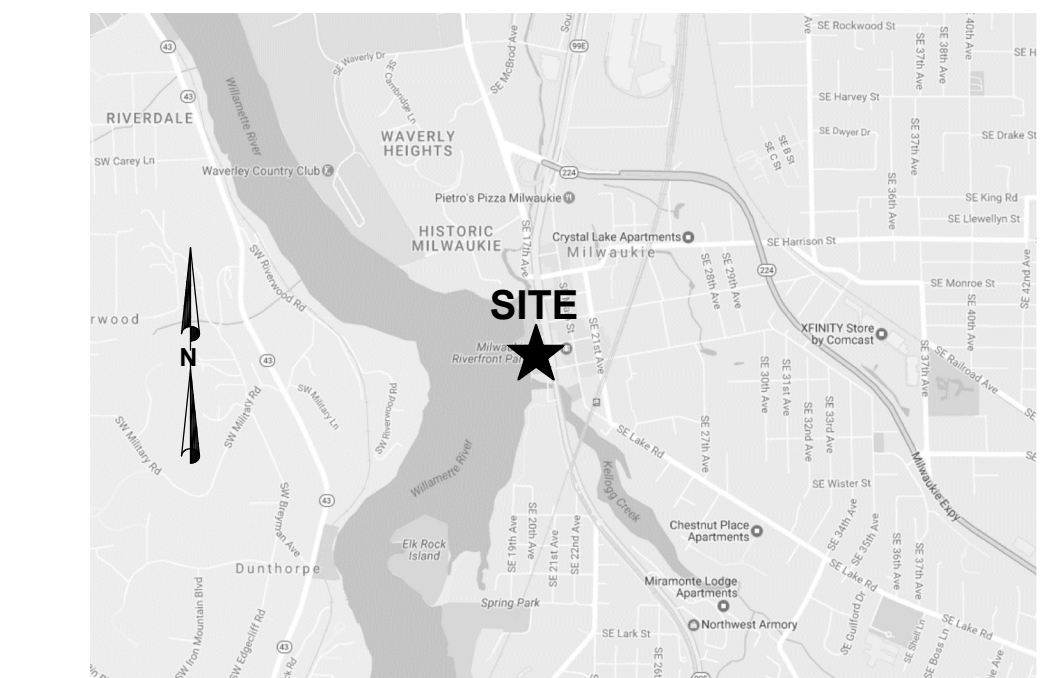
REGISTERED
PROFESSIONAL
LAND SURVEYOR
Gregory D. Spurlock
OREGON
JULY 29, 1988
GREGORY D. SPURLOCK
2370
EXPIRES: 06/30/18

NOTES

- 1) CONTOURS ARE AT 1' INTERVALS AND ARE COMPUTER GENERATED.
- 2) ALL MANHOLES WERE LOCATED AT CENTERLINE OF RIM.
- 3) UTILITIES SHOWN ON THE SURVEY HEREON WERE BASED UPON GROUND/VISUAL OBSERVATIONS ONLY. THERE MAY BE UTILITIES ON THE SITE THAT WERE NOT VISIBLE THEREFORE, THEY ARE NOT SHOWN. THE ACTUAL LOCATION OF THE UNDERGROUND MAY UTILITIES MAY VARY.
- 4) UTILITY LOCATES PROVIDED BY APS LOCATES (APPLIED PROFESSIONAL SERVICES) 43530 SE NORTH BEND WAY NORTH BEND, WASHINGTON 98045 (425) 954-8436



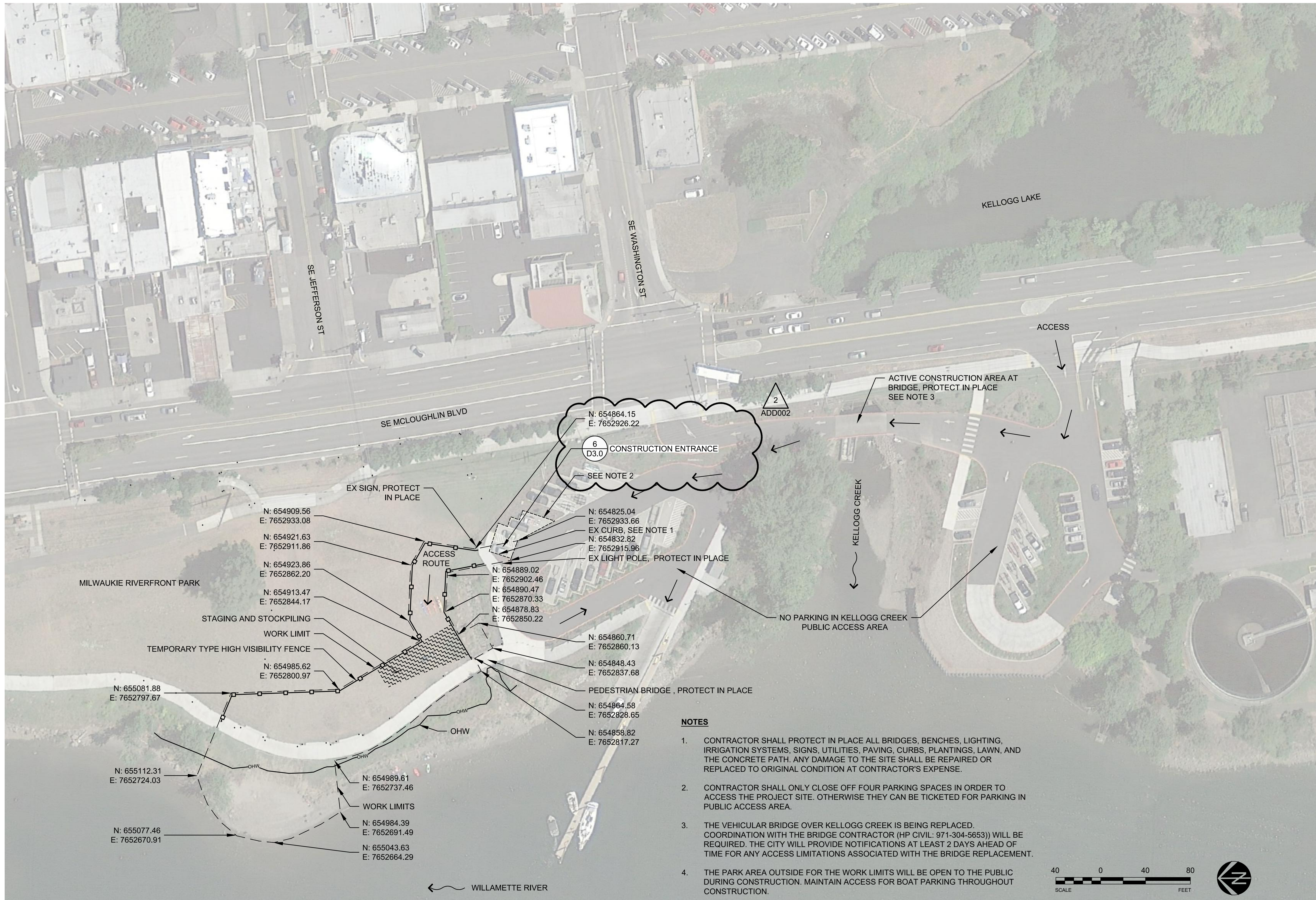
VICINITY MAP
NOT TO SCALE
APPROXIMATE GEODETIC COORDINATES OF SITE
N: 45°26'34.69" W: 122°38'34.34"



REVISION: NA	SCALE: 1"=20'	JOB NUMBER: 2017-001	STATEWIDE LAND SURVEYING INC. 43 NW AVA AVE. GRESHAM, OR 97030 O: 503-666-7777 F: 503-665-7988 EMAIL: SURVEY@STATEWIDESURVEYING.COM WEB: WWW.STATEWIDESURVEYING.COM
REVISION: NA	DRAWN DATE: 1/26/17	CLIENT: ESA	
REVISION: NA	REVIEW DATE: 1/27/17		
REVISION: NA	SURVEY DATE: 1/24/17		

E1.0





6
D3.0 CONSTRUCTION ENTRANCE
SEE NOTE 2

N: 654909.56
E: 7652933.08

N: 654921.63
E: 7652911.86

N: 654923.86
E: 7652862.20

N: 654913.47
E: 7652844.17

STAGING AND STOCKPILING

WORK LIMIT

TEMPORARY TYPE HIGH VISIBILITY FENCE

N: 654985.62
E: 7652800.97

N: 655081.88
E: 7652797.67

N: 655112.31
E: 7652724.03

N: 655077.46
E: 7652670.91

N: 654989.61
E: 7652737.46

WORK LIMITS

N: 654984.39
E: 7652691.49

N: 655043.63
E: 7652664.29

N: 654825.04
E: 7652933.66

EX CURB, SEE NOTE 1

N: 654832.82
E: 7652915.96

EX LIGHT POLE, PROTECT IN PLACE

N: 654889.02
E: 7652902.46

N: 654890.47
E: 7652870.33

N: 654878.83
E: 7652850.22

N: 654860.71
E: 7652860.13

N: 654848.43
E: 7652837.68

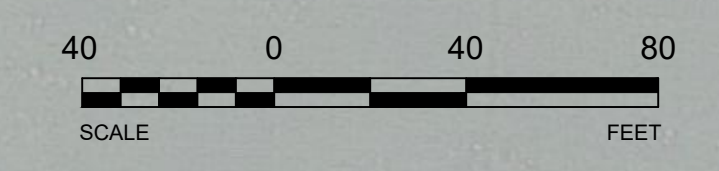
PEDESTRIAN BRIDGE, PROTECT IN PLACE

N: 654864.58
E: 7652828.65

N: 654858.82
E: 7652817.27

NOTES

1. CONTRACTOR SHALL PROTECT IN PLACE ALL BRIDGES, BENCHES, LIGHTING, IRRIGATION SYSTEMS, SIGNS, UTILITIES, PAVING, CURBS, PLANTINGS, LAWN, AND THE CONCRETE PATH. ANY DAMAGE TO THE SITE SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL ONLY CLOSE OFF FOUR PARKING SPACES IN ORDER TO ACCESS THE PROJECT SITE. OTHERWISE THEY CAN BE TICKETED FOR PARKING IN PUBLIC ACCESS AREA.
3. THE VEHICULAR BRIDGE OVER KELLOGG CREEK IS BEING REPLACED. COORDINATION WITH THE BRIDGE CONTRACTOR (HP CIVIL: 971-304-5653) WILL BE REQUIRED. THE CITY WILL PROVIDE NOTIFICATIONS AT LEAST 2 DAYS AHEAD OF TIME FOR ANY ACCESS LIMITATIONS ASSOCIATED WITH THE BRIDGE REPLACEMENT.
4. THE PARK AREA OUTSIDE FOR THE WORK LIMITS WILL BE OPEN TO THE PUBLIC DURING CONSTRUCTION. MAINTAIN ACCESS FOR BOAT PARKING THROUGHOUT CONSTRUCTION.



819 SE Morrison St,
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024

REGISTERED PROFESSIONAL
ENGINEER
83788PE

Mauria J. Pappagallo

OREGON
EXPIRES
DECEMBER 21, 2011

MAURIA J. PAPPAGALLO

RENEWAL DATE 12-31-18

CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision
2	6.26.18	ADD002

Date 6/26/18
Designed By SAR, MJP
Drawn By DNR
Checked By JGR

Sheet Name
CONSTRUCTION ACCESS AND STAGING PLAN

Sheet No.
C1.0

Project No.:
D160484.00



819 SE Morrison St,
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



CITY OF MILWAUKIE

10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date 6/6/18	Designed By SAR, MJP
Drawn By DNR	Checked By JGR

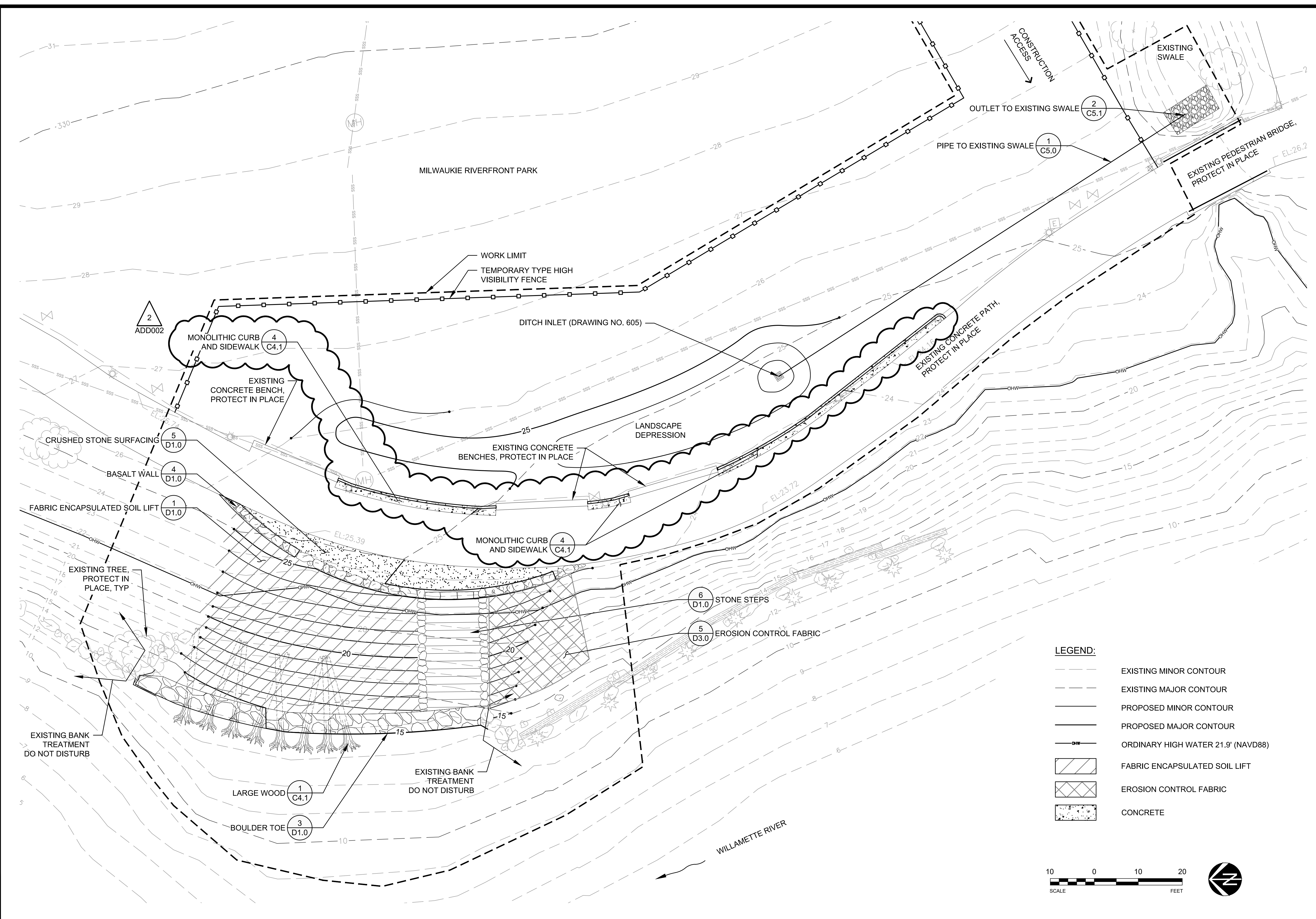
Sheet Name

PEDESTRIAN
DETOUR PLAN

Sheet No.

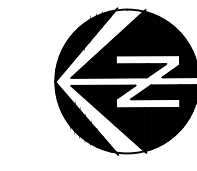
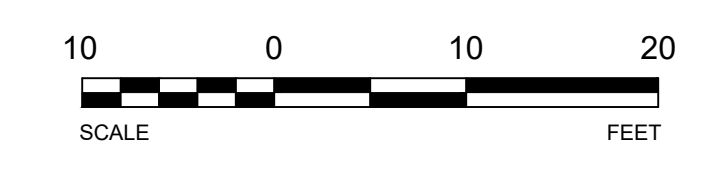
C1.1

Project No.:
D160484.00



LEGEND:

	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ORDINARY HIGH WATER 21.9' (NAVD88)
	FABRIC ENCAPSULATED SOIL LIFT
	EROSION CONTROL FABRIC
	CONCRETE



819 SE Morrison St.
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024

ESA

REGISTERED PROFESSIONAL ENGINEER
83788PE
MAURIA J. PAPPAGALLO
RENEWAL DATE 12-31-18

CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

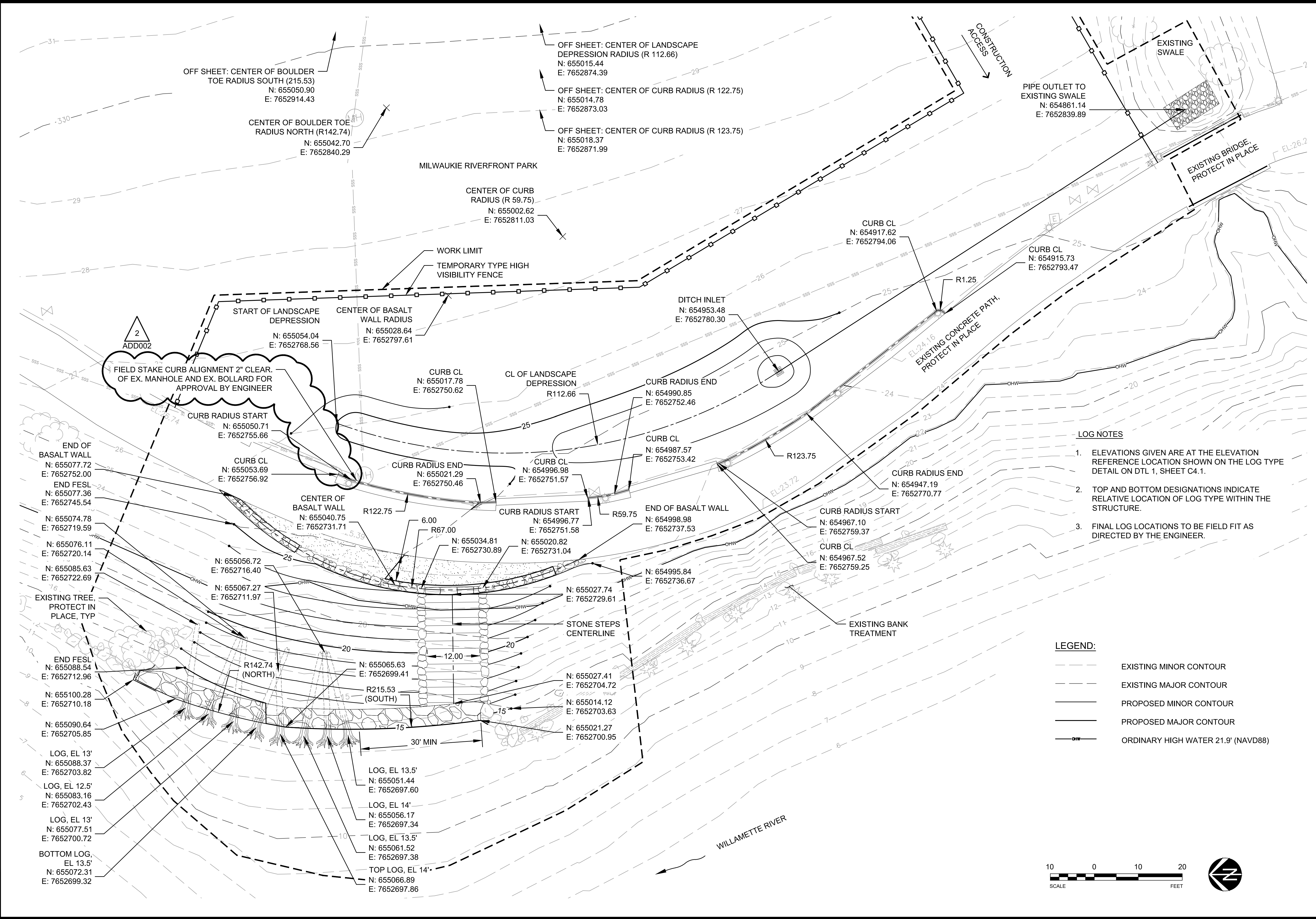
No.	Date	Revision
2	6.26.18	ADD002

Date: 6/26/18
Designed By: SAR, MJP
Drawn By: DNR
Checked By: JGR

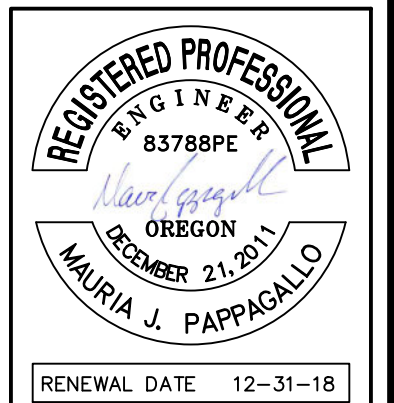
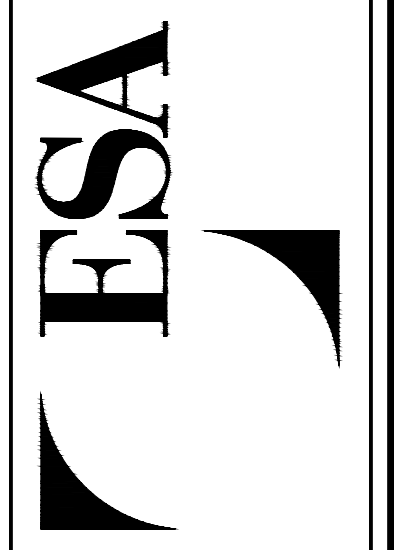
Sheet Name: **MATERIALS PLAN**

Sheet No.: **C2.0**

Project No.: **D160484.00**



819 SE Morrison St.
 Suite 310
 Portland, OR 97214
 P: (503) 274-2010
 F: (503) 274-2024



CITY OF MILWAUKIE
 10722 SE MAIN STREET
 MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER		
No.	Date	Revision
2	6.26.18	ADD002

Date: 6/26/18
 Drawn By: DNR
 Designed By: SAR, MJP
 Checked By: JGR

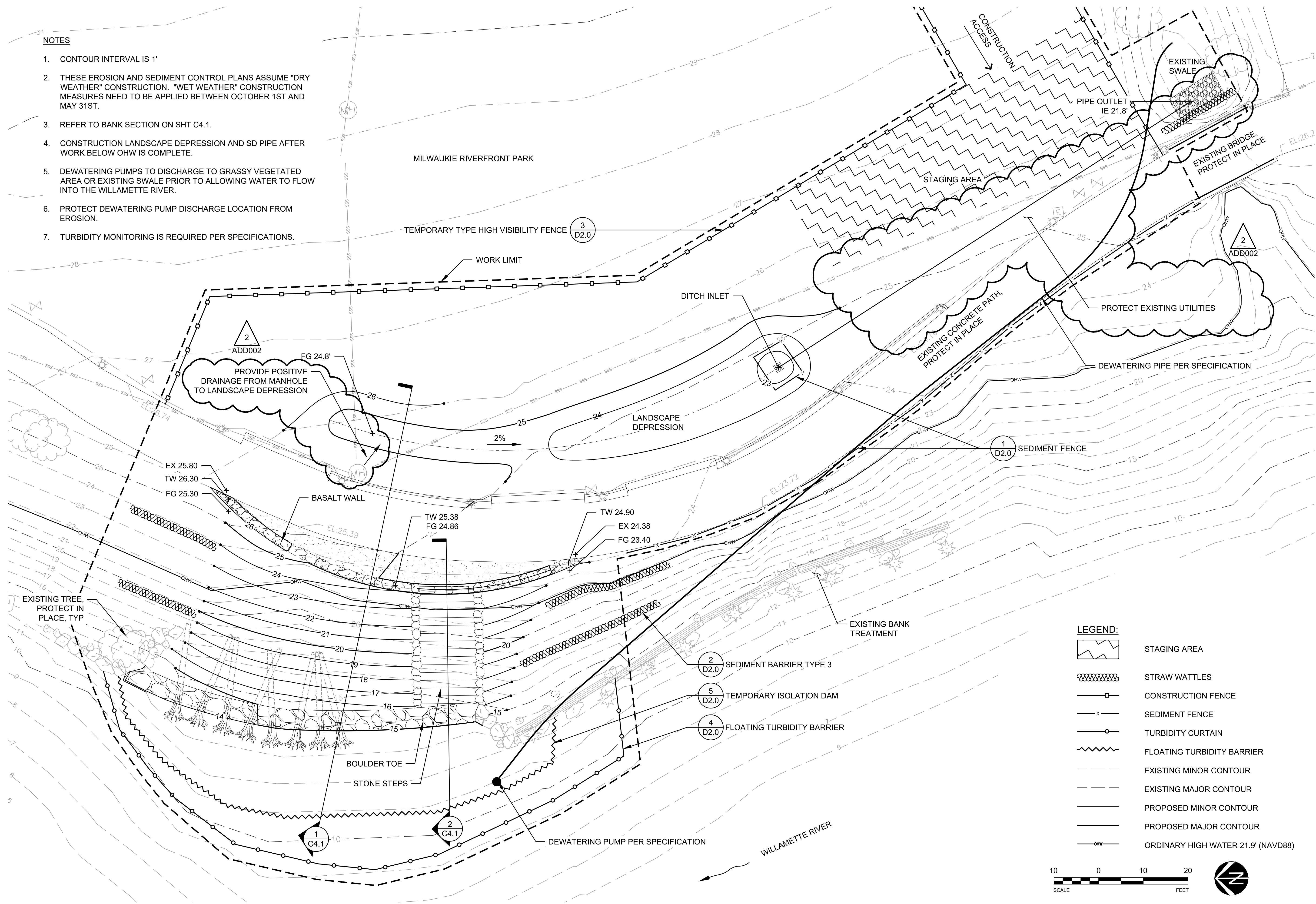
Sheet Name
LAYOUT PLAN

Sheet No.
C3.0

Project No.
D160484.00

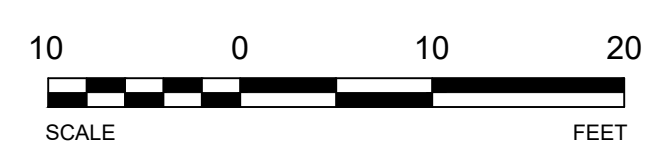
NOTES

1. CONTOUR INTERVAL IS 1'
2. THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.
3. REFER TO BANK SECTION ON SHT C4.1.
4. CONSTRUCTION LANDSCAPE DEPRESSION AND SD PIPE AFTER WORK BELOW OHW IS COMPLETE.
5. DEWATERING PUMPS TO DISCHARGE TO GRASSY VEGETATED AREA OR EXISTING SWALE PRIOR TO ALLOWING WATER TO FLOW INTO THE WILLAMETTE RIVER.
6. PROTECT DEWATERING PUMP DISCHARGE LOCATION FROM EROSION.
7. TURBIDITY MONITORING IS REQUIRED PER SPECIFICATIONS.

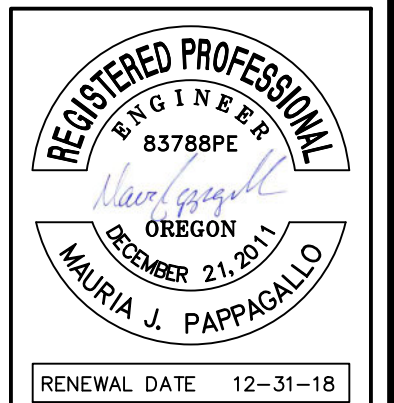
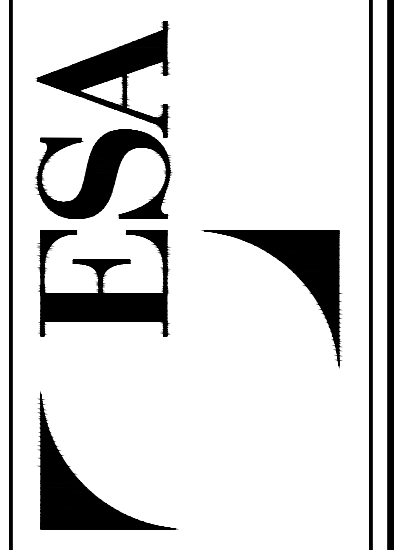


LEGEND:

- STAGING AREA
- STRAW WATTLES
- CONSTRUCTION FENCE
- SEDIMENT FENCE
- TURBIDITY CURTAIN
- FLOATING TURBIDITY BARRIER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- ORDINARY HIGH WATER 21.9' (NAVD88)



819 SE Morrison St.
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

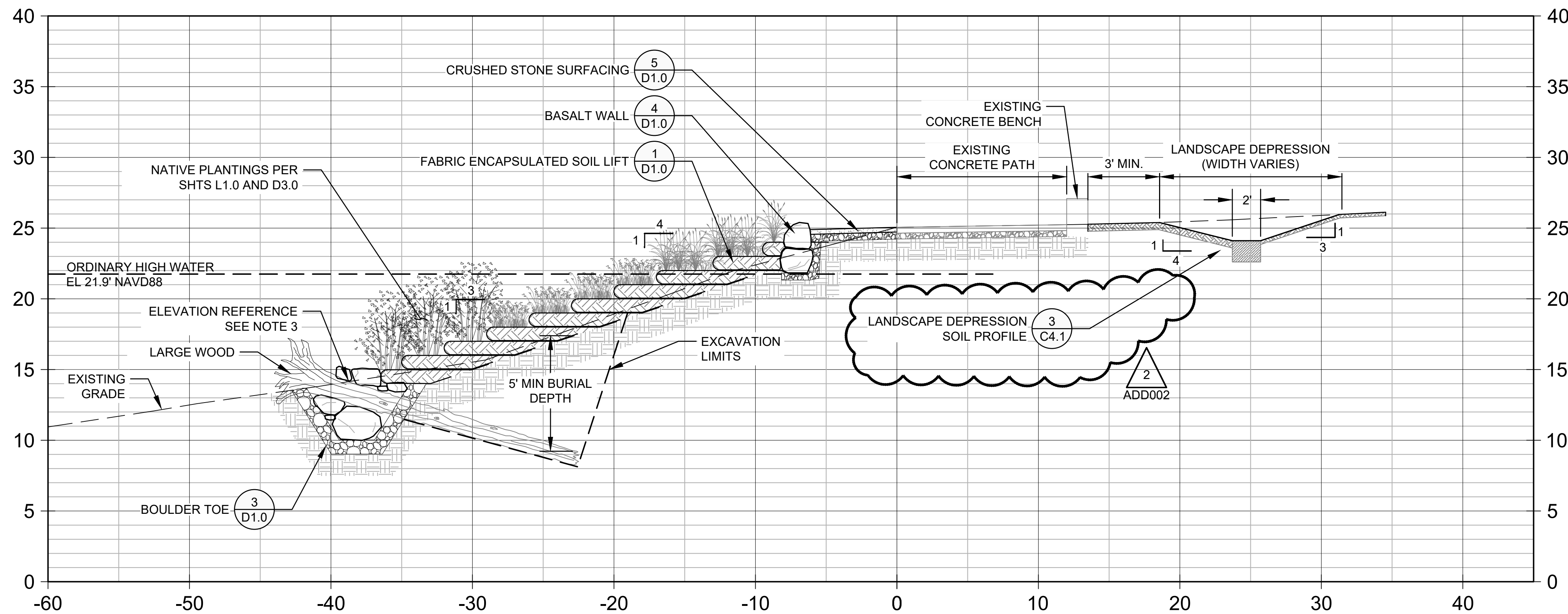
REVISION NUMBER		
No.	Date	Revision
2	6.26.18	ADD002

Date	Designed By
6/26/18	SAR, MJP
Drawn By	Checked By
DNR	JGR

Sheet Name:
EROSION CONTROL AND GRADING PLAN

Sheet No.:
C4.0

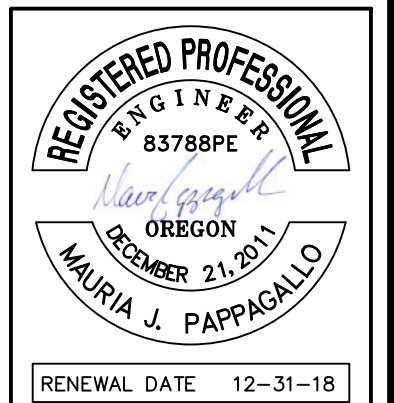
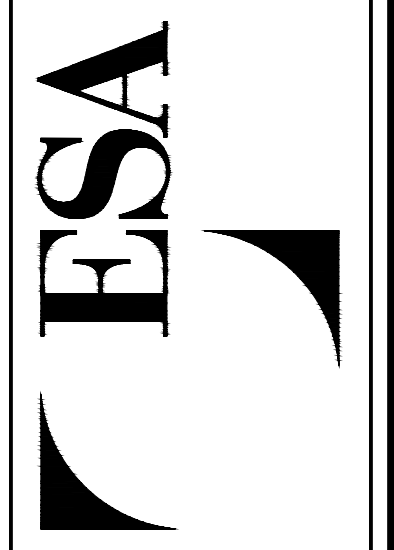
Project No.:
D160484.00



LOG NOTES

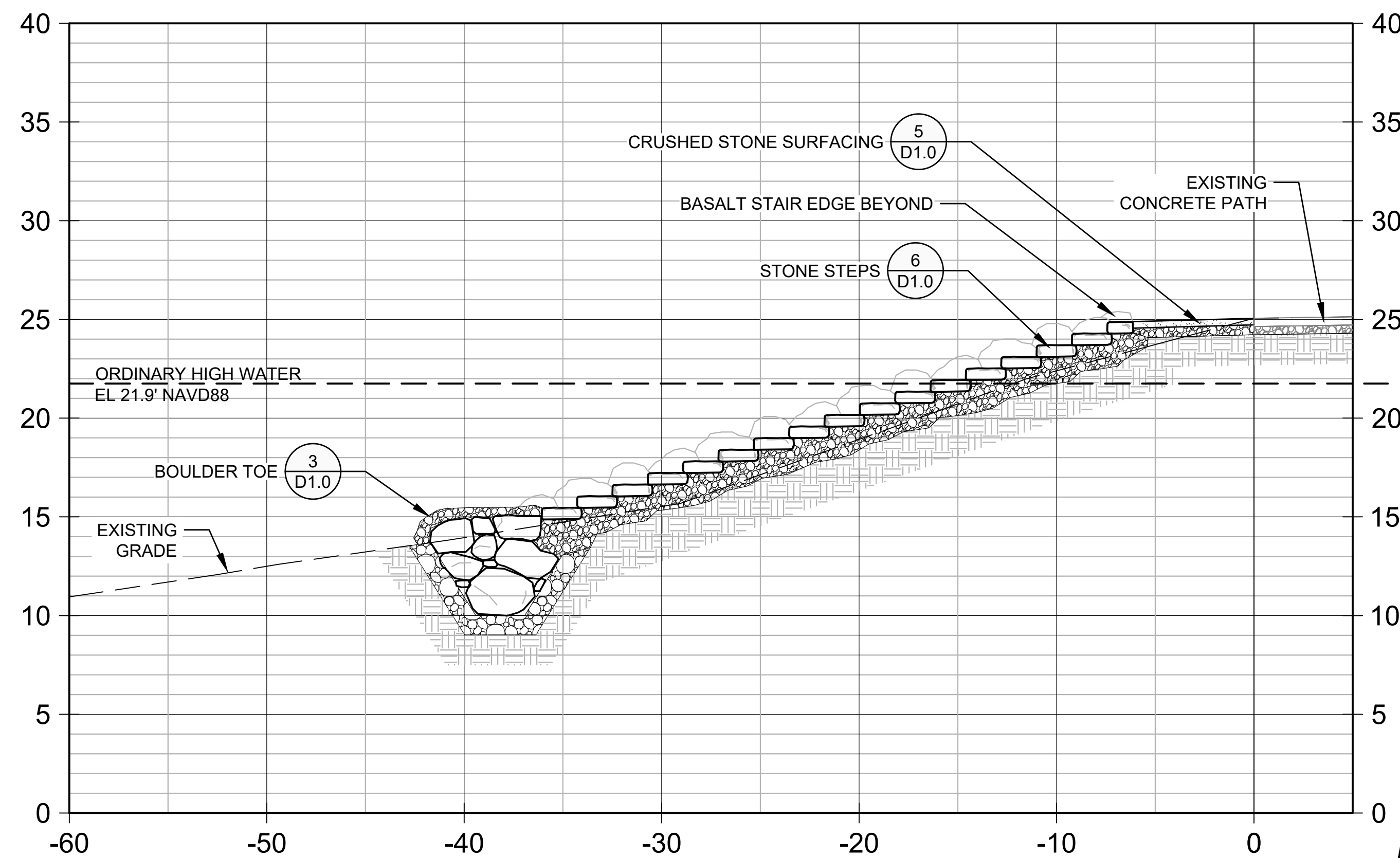
1. WHEN POSSIBLE, EMBED ROOTWAD TO A DEPTH OF 1/3 THE FAN DIAMETER.
2. FINAL LOG PLACEMENT TO BE FIELD FIT AND AS DIRECTED BY ENGINEER.
3. SEE SHEET C3.0 FOR REFERENCE POINT ELEVATIONS.

819 SE Morrison St.
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



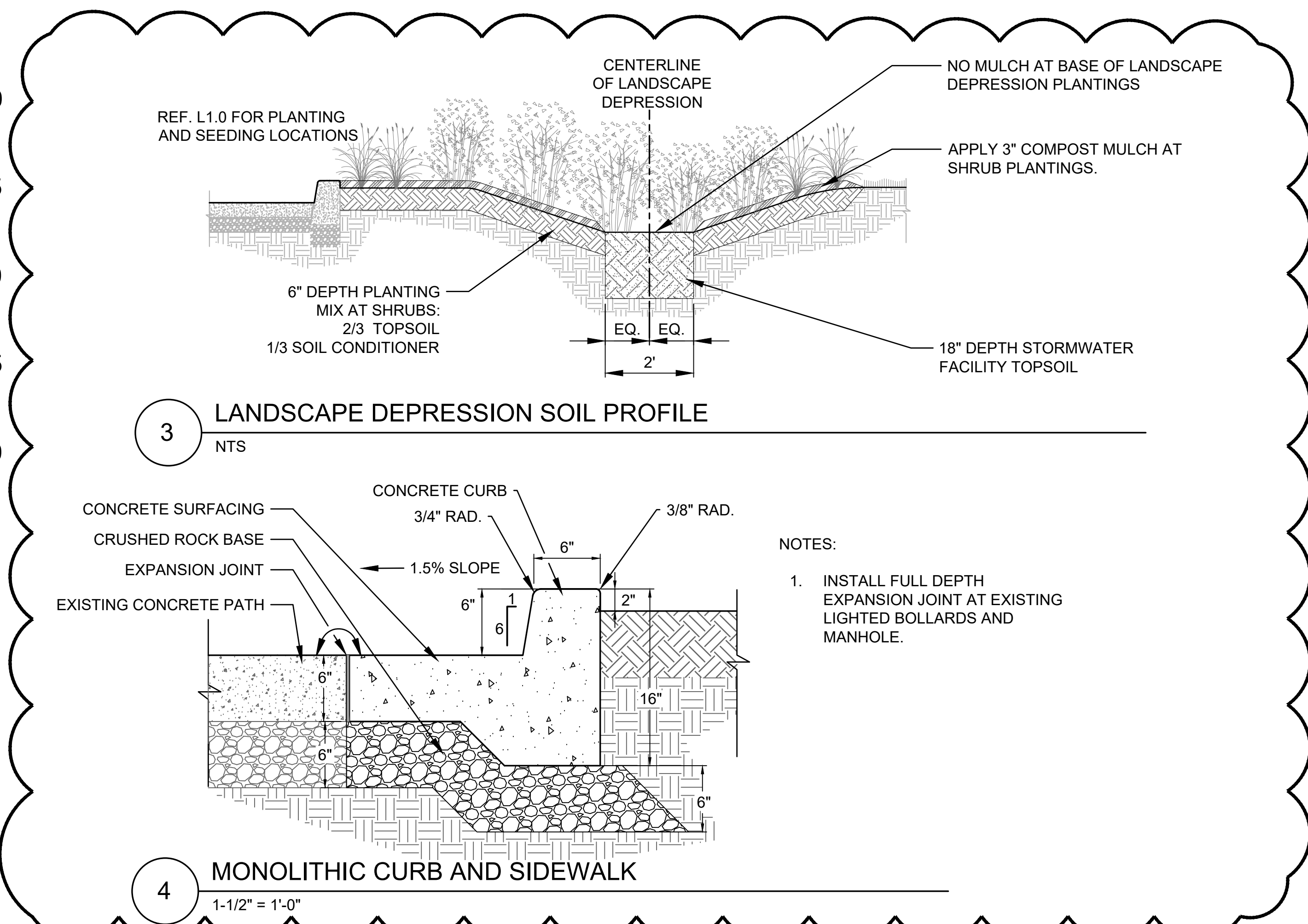
1 BANK SECTION

1" = 5'-0"



2 STONE STEPS SECTION

1" = 5'-0"



CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222
RIVERFRONT PARK BANK REPAIR

REVISION NUMBER		
No.	Date	Revision
2	6.26.18	ADD002

Date 6/26/18	Designed By SAR, MJP
Drawn By DNR	Checked By JGR

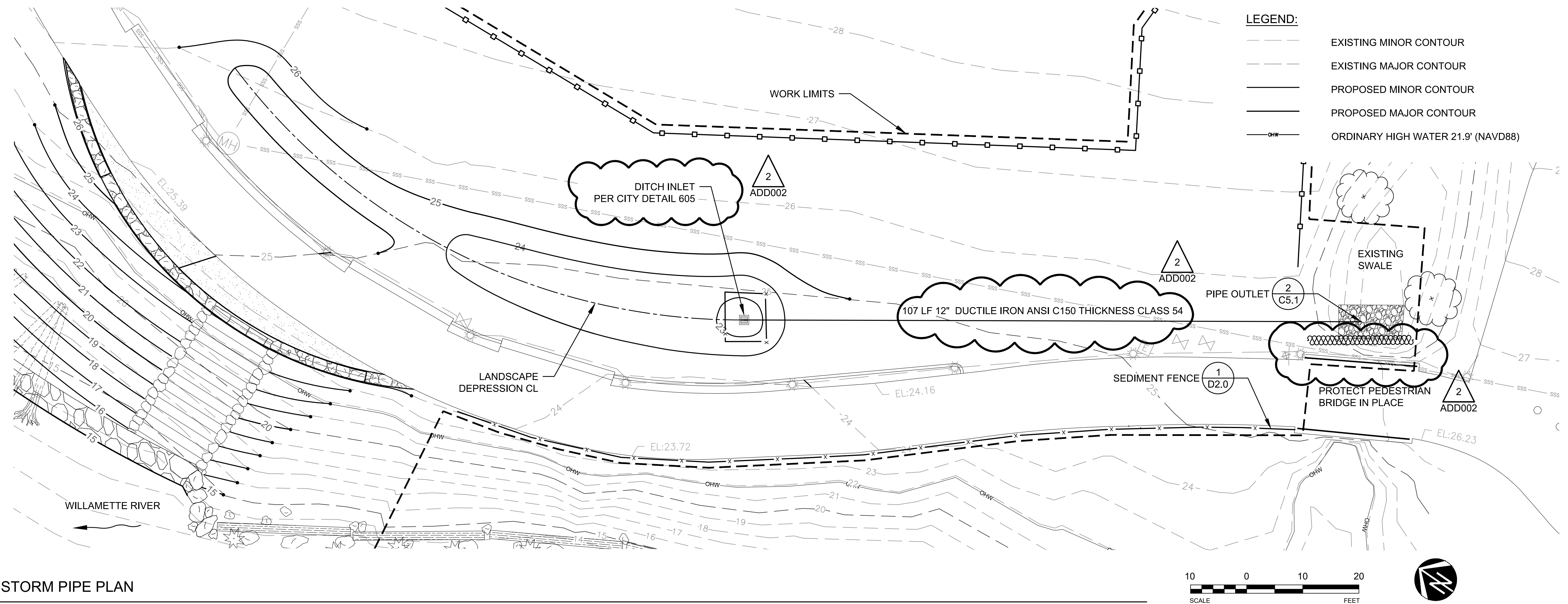
Sheet Name

SECTIONS

Sheet No.

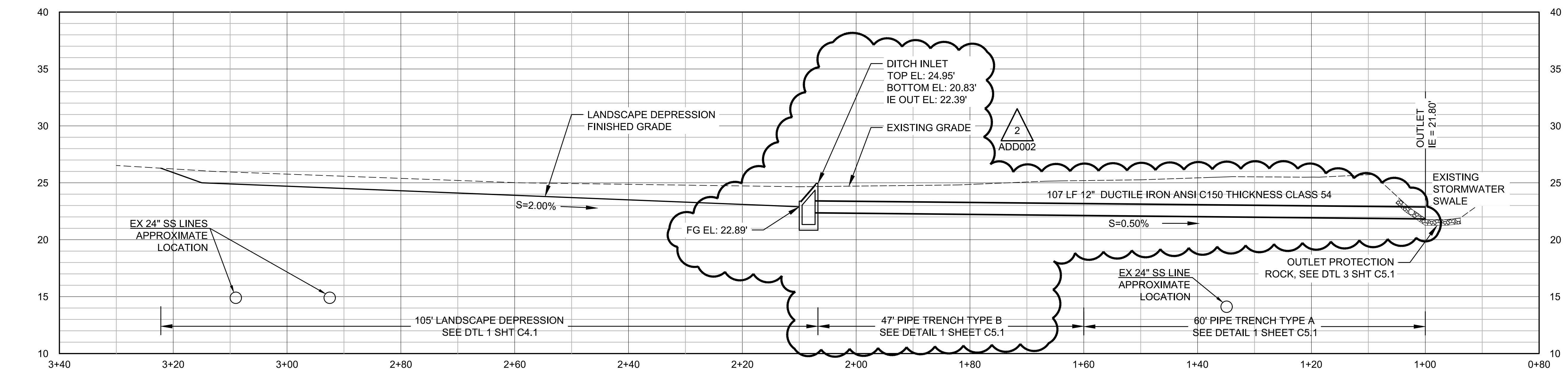
C4.1

Project No.:
D160484.00



- LEGEND:**
- EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - ORDINARY HIGH WATER 21.9' (NAVD88)

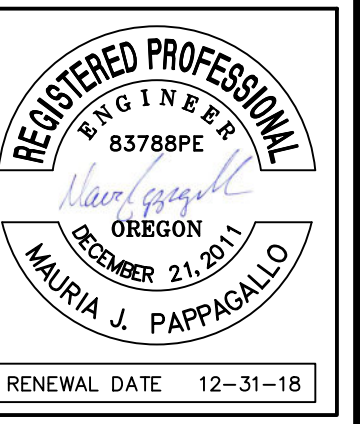
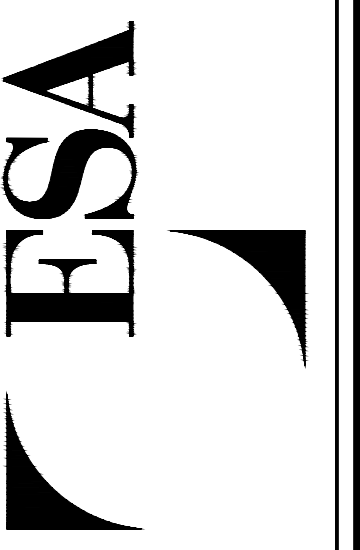
1 STORM PIPE PLAN



2 STORM PIPE PROFILE
 HORIZONTAL SCALE: 1"=10' (FOR 22X34" SHEETS)
 VERTICAL SCALE: 1" = 5' (FOR 22X34" SHEETS)

- NOTES**
1. SEE PIPE DETAILS ON SHEET C5.1
 2. CONSTRUCTION OF PIPE OUTFALL IS NOT ALLOWED WHILE USING EXISTING SWALE FOR TEMPORARY WATER MANAGEMENT DISCHARGE.

819 SE Morrison St.
 Suite 310
 Portland, OR 97214
 P: (503) 274-2010
 F: (503) 274-2024



CITY OF MILWAUKIE
 10722 SE MAIN STREET
 MILWAUKIE, OR 97222

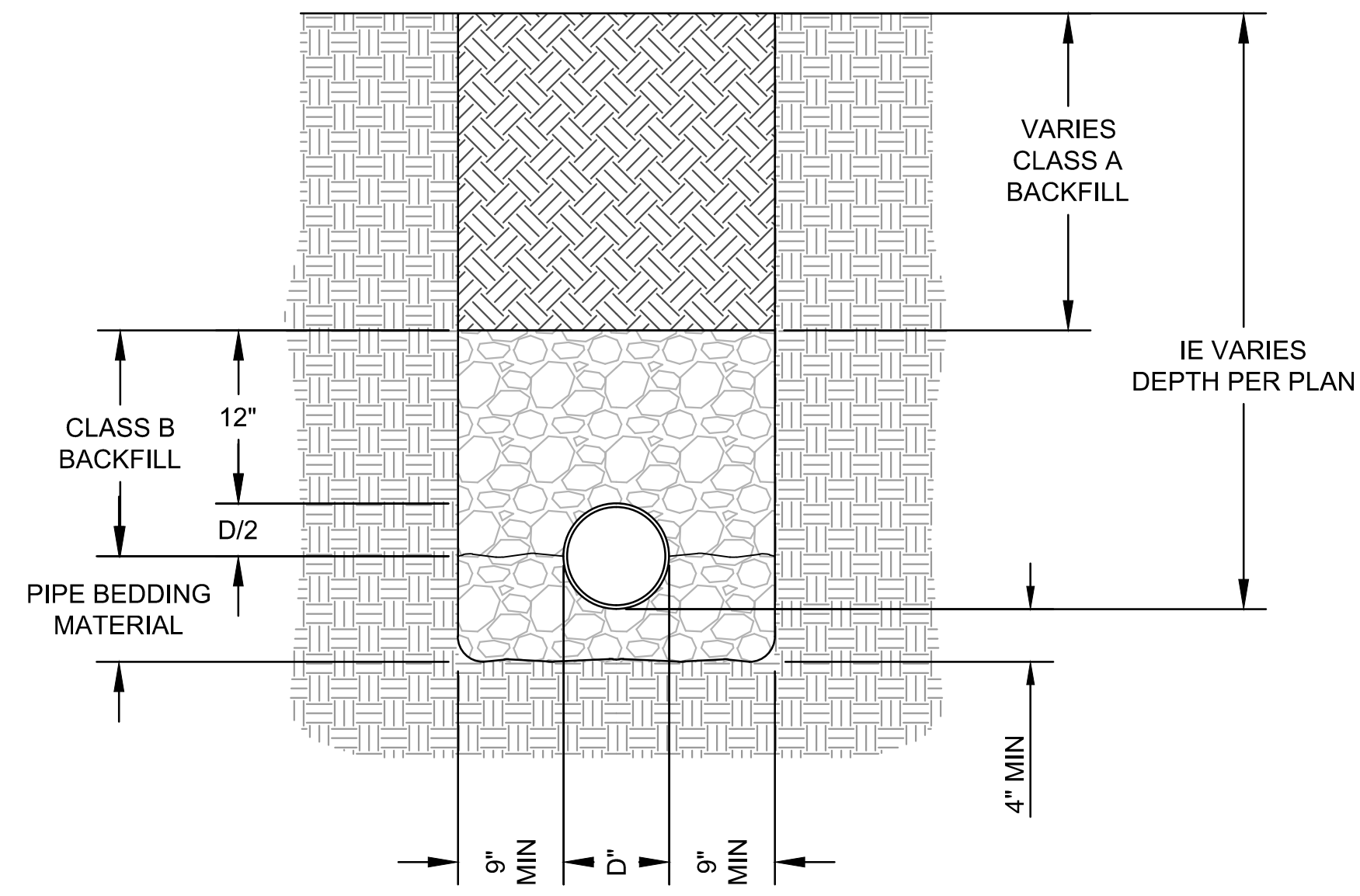
RIVERFRONT PARK BANK REPAIR

REVISION NUMBER		
No.	Date	Revision
2	6.26.18	ADD002

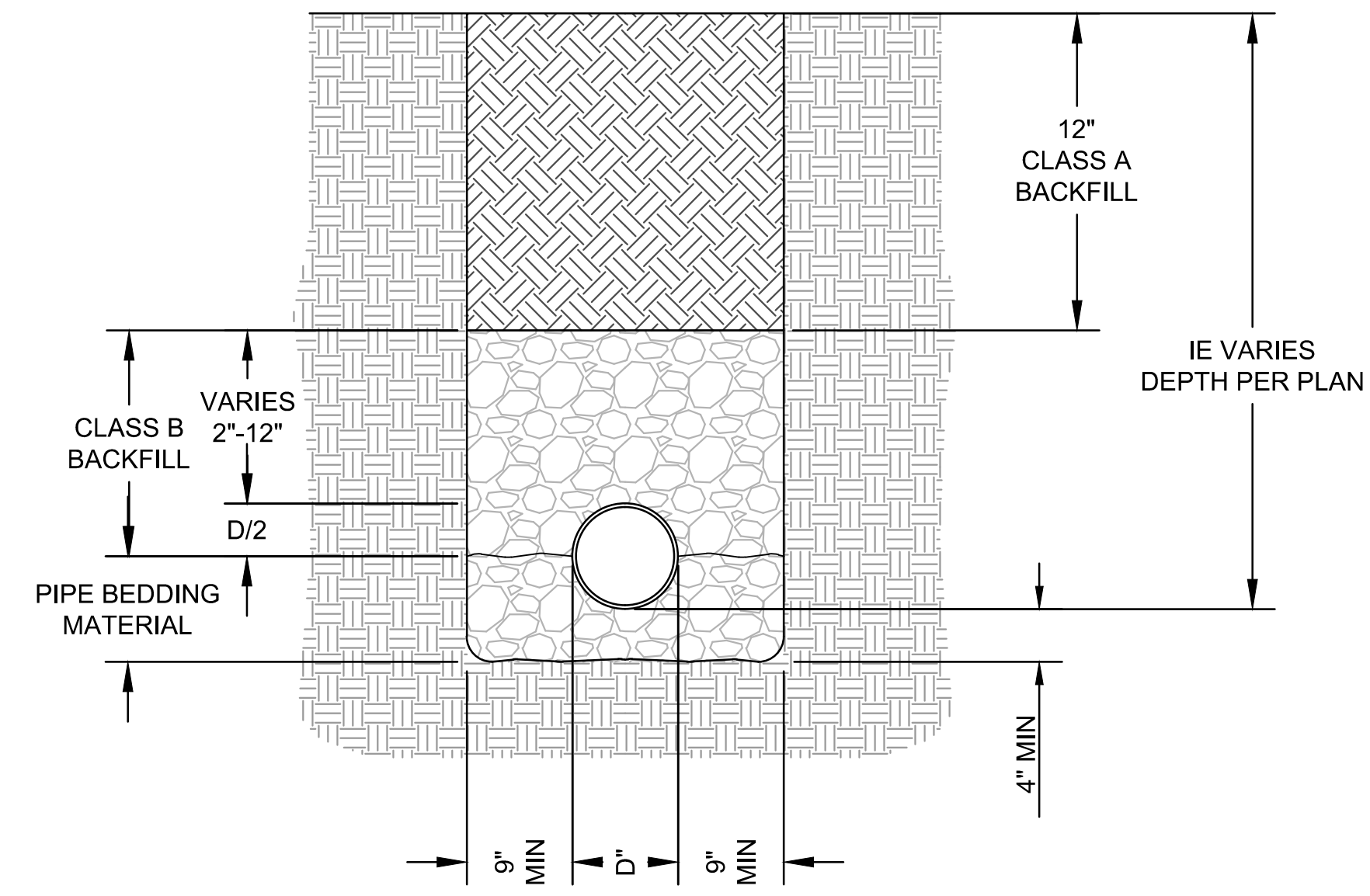
Date: 6/26/18
 Drawn By: DNR
 Designed By: SAR, MJP
 Checked By: JGR

Sheet Name:
STORM PIPE PLAN AND PROFILE

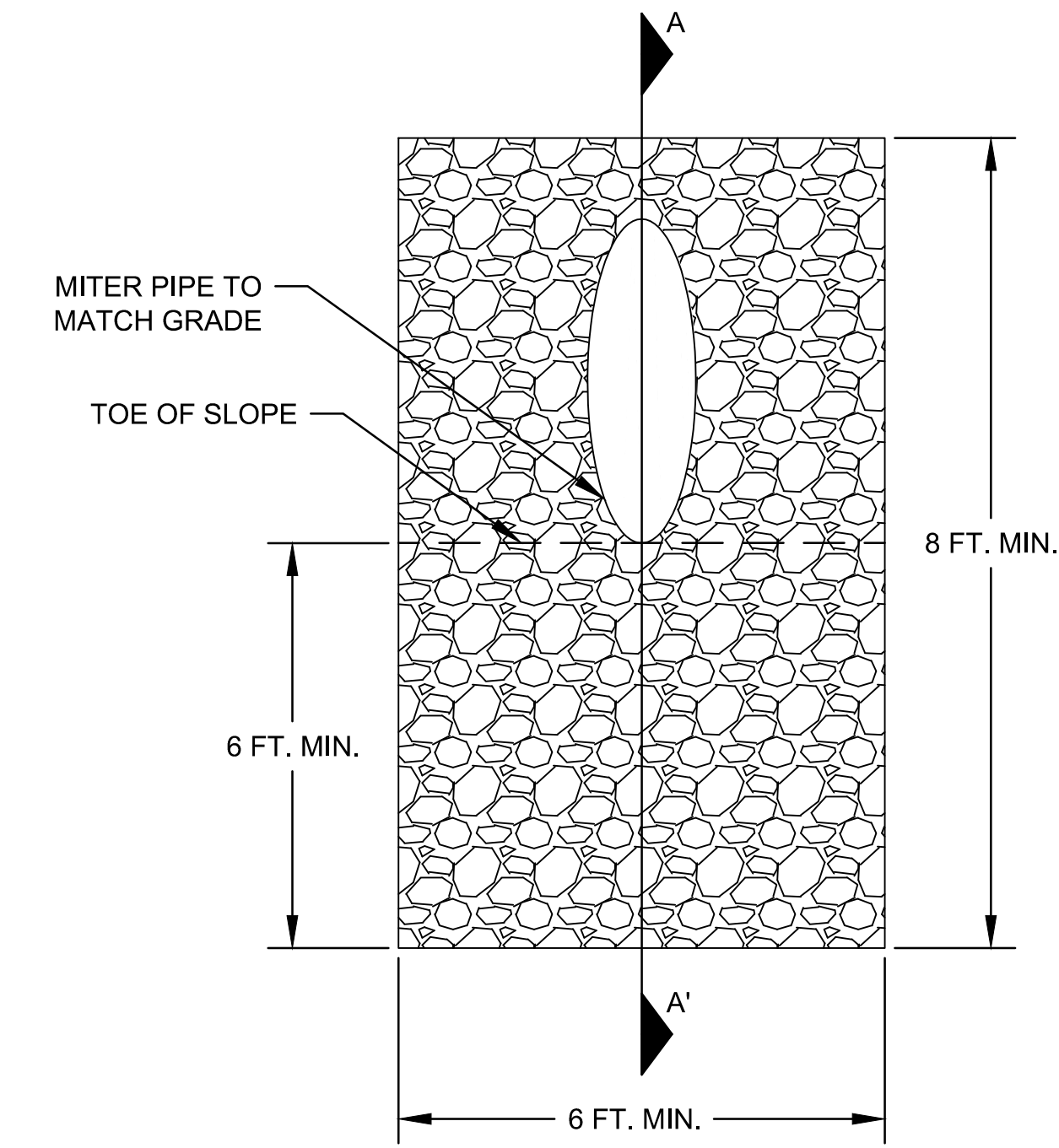
Sheet No.:
C5.0
 Project No.:
D160484.00



TYPE A



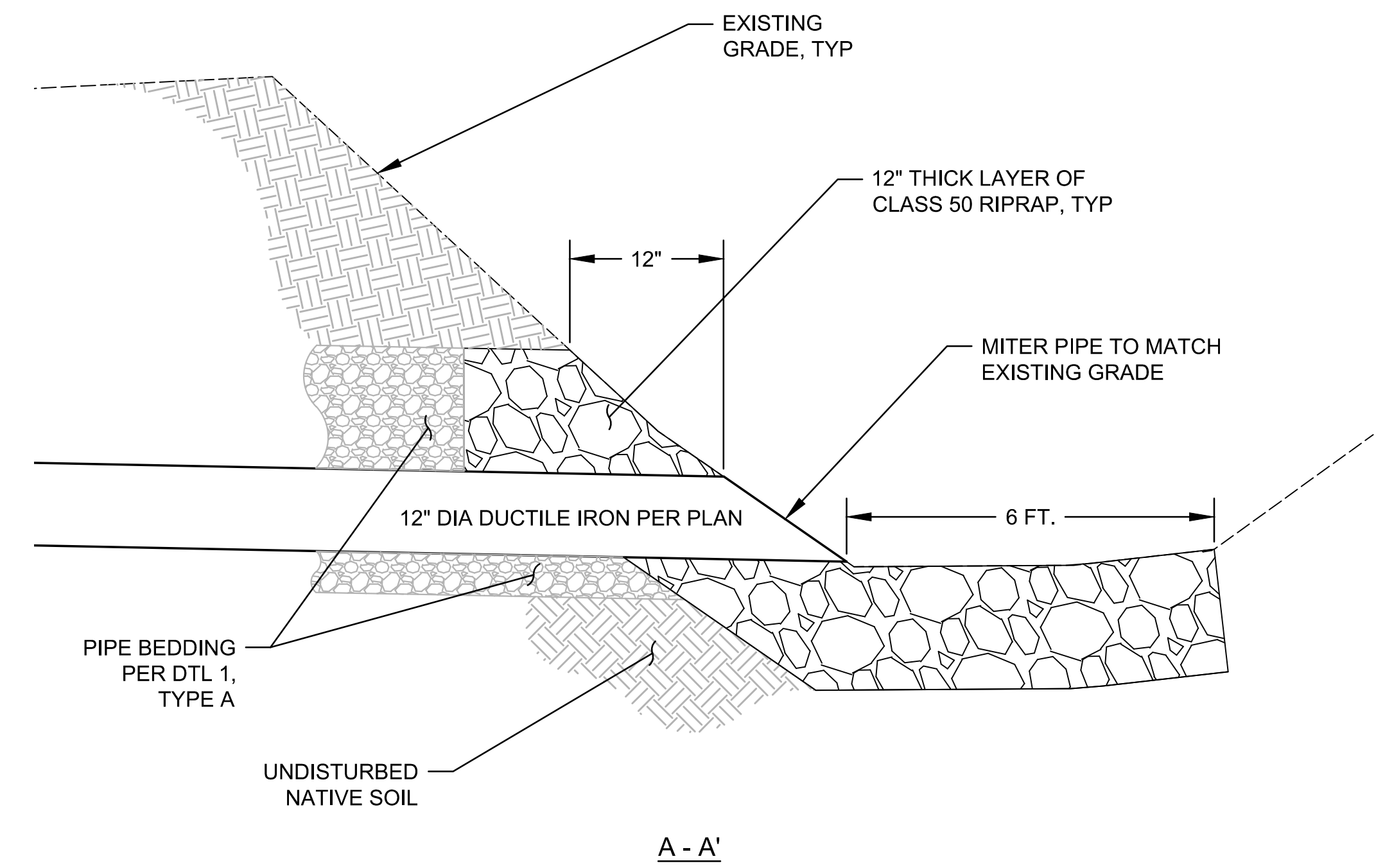
TYPE B



PLAN

NOTES
 1. ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.

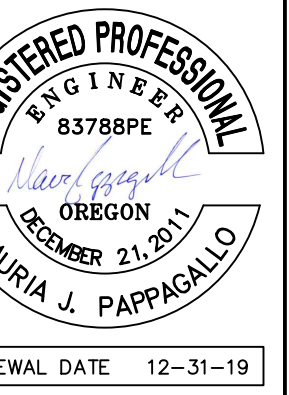
1 PIPE TRENCH
 NTS



A - A'

2 PIPE OUTLET
 NTS

819 SE Morrison St.
 Suite 310
 Portland, OR 97214
 P: (503) 274-2010
 F: (503) 274-2024



CITY OF MILWAUKIE
 10722 SE MAIN STREET
 MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date: 6/6/18
 Drawn By: DNR
 Designed By: SAR, MJP
 Checked By: JGR

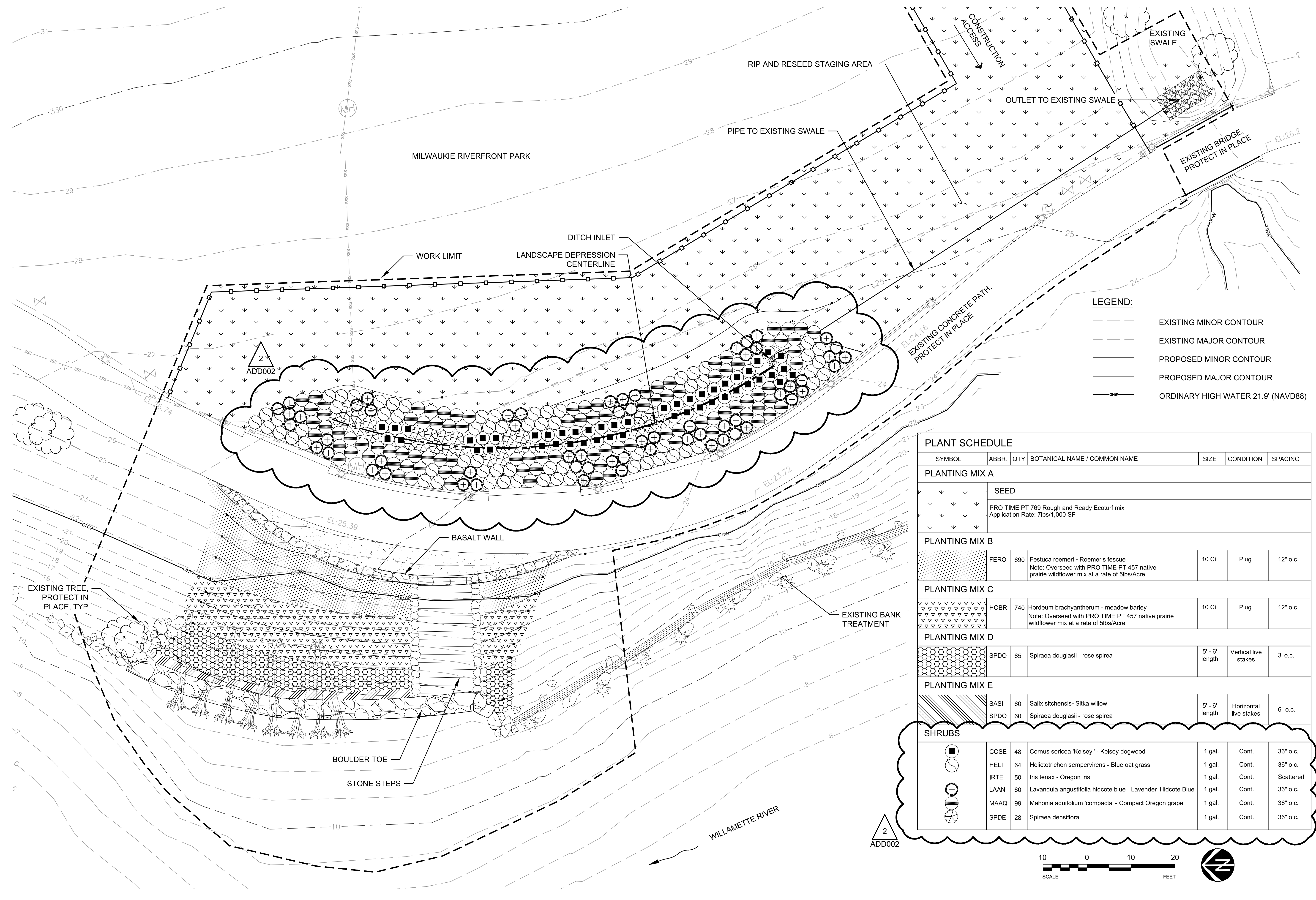
Sheet Name

STORM PIPE DETAILS

Sheet No.

C5.1

Project No.:
D160484.00

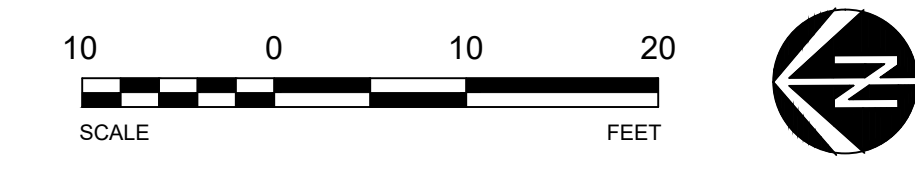


LEGEND:

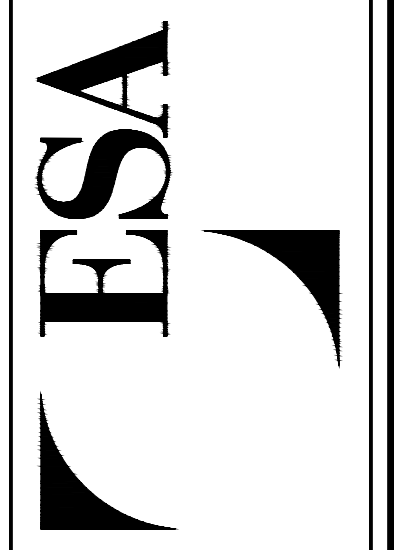
- EXISTING MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - PROPOSED MAJOR CONTOUR
- OHW ORDINARY HIGH WATER 21.9' (NAVD88)

PLANT SCHEDULE

SYMBOL	ABBR.	QTY	BOTANICAL NAME / COMMON NAME	SIZE	CONDITION	SPACING
PLANTING MIX A						
SEED						
PRO TIME PT 769 Rough and Ready Ecoturf mix Application Rate: 7lbs/1,000 SF						
PLANTING MIX B						
[Symbol]	FERO	690	Festuca roemerii - Roemer's fescue Note: Overseed with PRO TIME PT 457 native prairie wildflower mix at a rate of 5lbs/Acre	10 Ci	Plug	12" o.c.
PLANTING MIX C						
[Symbol]	HOBH	740	Hordeum brachyantherum - meadow barley Note: Overseed with PRO TIME PT 457 native prairie wildflower mix at a rate of 5lbs/Acre	10 Ci	Plug	12" o.c.
PLANTING MIX D						
[Symbol]	SPDO	65	Spiraea douglasii - rose spirea	5' - 6' length	Vertical live stakes	3' o.c.
PLANTING MIX E						
[Symbol]	SASI	60	Salix sitchensis - Sitka willow	5' - 6' length	Horizontal live stakes	6" o.c.
[Symbol]	SPDO	60	Spiraea douglasii - rose spirea	5' - 6' length	Horizontal live stakes	6" o.c.
SHRUBS						
[Symbol]	COSE	48	Cornus sericea 'Kelsey' - Kelsey dogwood	1 gal.	Cont.	36" o.c.
[Symbol]	HELI	64	Helictotrichon sempervirens - Blue oat grass	1 gal.	Cont.	36" o.c.
[Symbol]	IRTE	50	Iris tenax - Oregon iris	1 gal.	Cont.	Scattered
[Symbol]	LAAN	60	Lavandula angustifolia hidcote blue - Lavender 'Hidcote Blue'	1 gal.	Cont.	36" o.c.
[Symbol]	MAAQ	99	Mahonia aquifolium 'compacta' - Compact Oregon grape	1 gal.	Cont.	36" o.c.
[Symbol]	SPDE	28	Spiraea densiflora	1 gal.	Cont.	36" o.c.



819 SE Morrison St.
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



REGISTERED
644
STEVEN A. ROELOF
11/30/07
OREGON
LANDSCAPE ARCHITECT
RENEWS: 11/30/18

CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

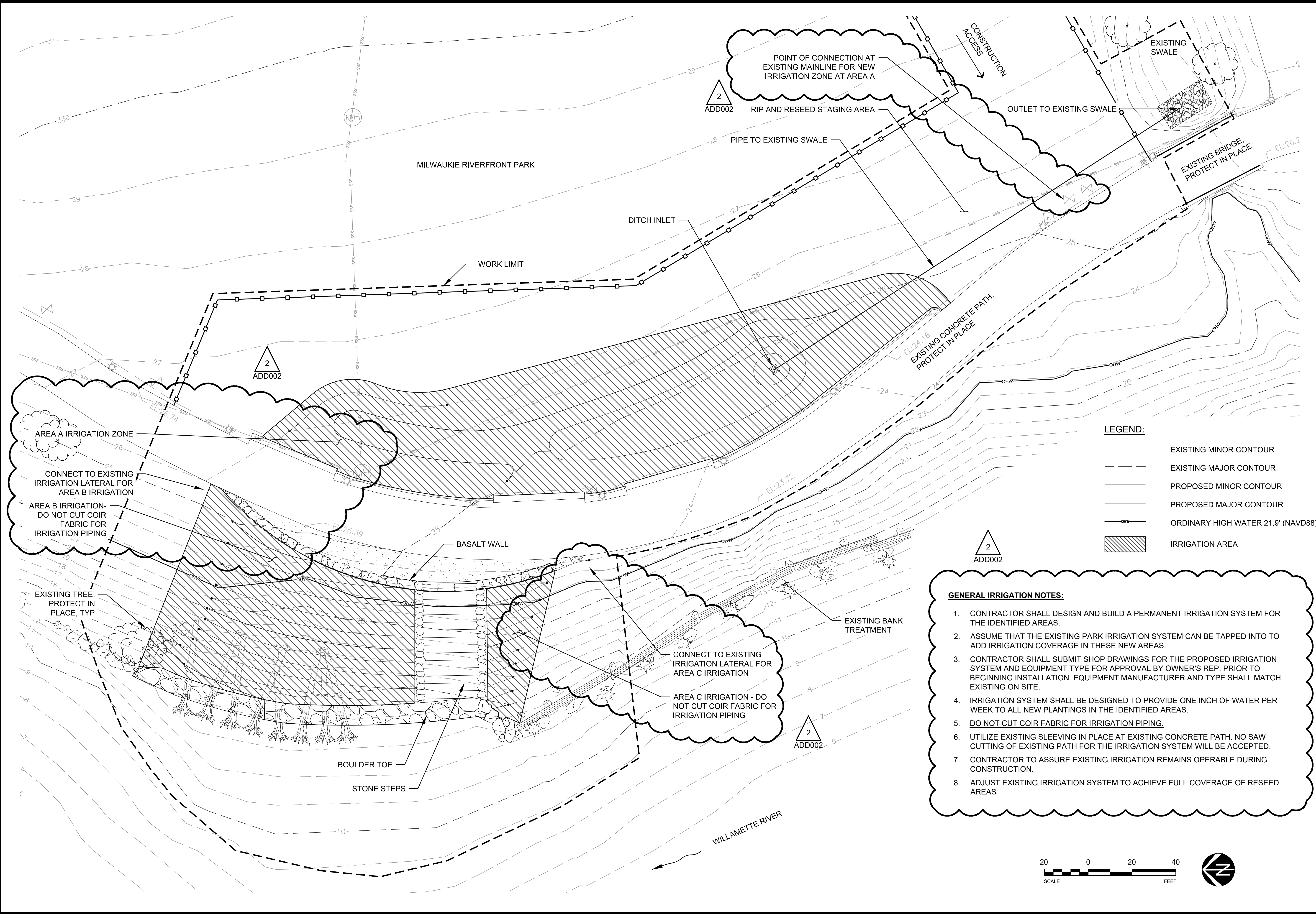
No.	Date	Revision
2	6.26.18	ADD002

Date: 6/26/18
Designed By: SAR, MJP
Drawn By: JGR
Checked By: DNR

Sheet Name: REVEGETATION PLAN

Sheet No.: L1.0

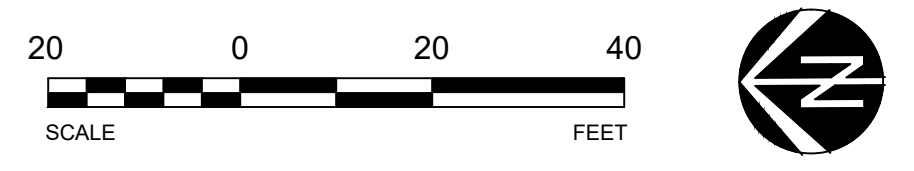
Project No.: D160484.00



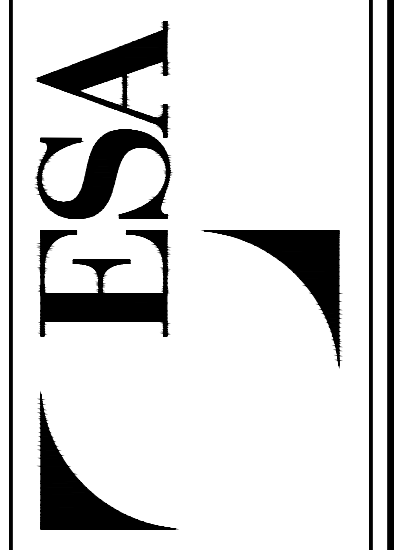
LEGEND:

	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ORDINARY HIGH WATER 21.9' (NAVD88)
	IRRIGATION AREA

- GENERAL IRRIGATION NOTES:**
1. CONTRACTOR SHALL DESIGN AND BUILD A PERMANENT IRRIGATION SYSTEM FOR THE IDENTIFIED AREAS.
 2. ASSUME THAT THE EXISTING PARK IRRIGATION SYSTEM CAN BE TAPPED INTO TO ADD IRRIGATION COVERAGE IN THESE NEW AREAS.
 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE PROPOSED IRRIGATION SYSTEM AND EQUIPMENT TYPE FOR APPROVAL BY OWNER'S REP. PRIOR TO BEGINNING INSTALLATION. EQUIPMENT MANUFACTURER AND TYPE SHALL MATCH EXISTING ON SITE.
 4. IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ONE INCH OF WATER PER WEEK TO ALL NEW PLANTINGS IN THE IDENTIFIED AREAS.
 5. DO NOT CUT COIR FABRIC FOR IRRIGATION PIPING.
 6. UTILIZE EXISTING SLEEVING IN PLACE AT EXISTING CONCRETE PATH. NO SAW CUTTING OF EXISTING PATH FOR THE IRRIGATION SYSTEM WILL BE ACCEPTED.
 7. CONTRACTOR TO ASSURE EXISTING IRRIGATION REMAINS OPERABLE DURING CONSTRUCTION.
 8. ADJUST EXISTING IRRIGATION SYSTEM TO ACHIEVE FULL COVERAGE OF RESEED AREAS



819 SE Morrison St.
 Suite 310
 Portland, OR 97214
 P: (503) 274-2010
 F: (503) 274-2024



REGISTERED
 644
 STEVEN A. ROELOF
 OREGON
 11/30/07
 LANDSCAPE ARCHITECT
 RENEWS: 11/30/18

CITY OF MILWAUKIE
 10722 SE MAIN STREET
 MILWAUKIE, OR 97222
 RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

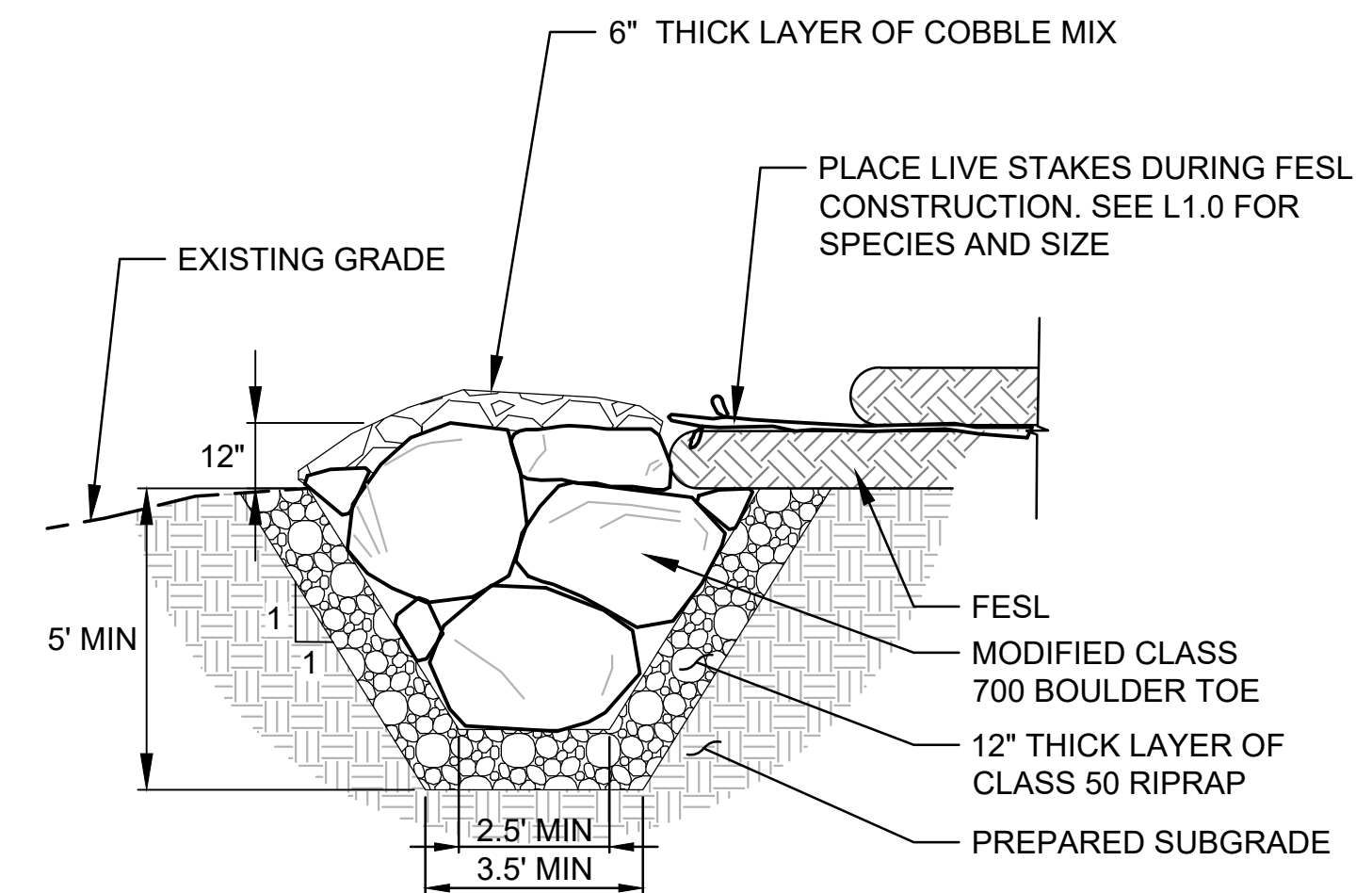
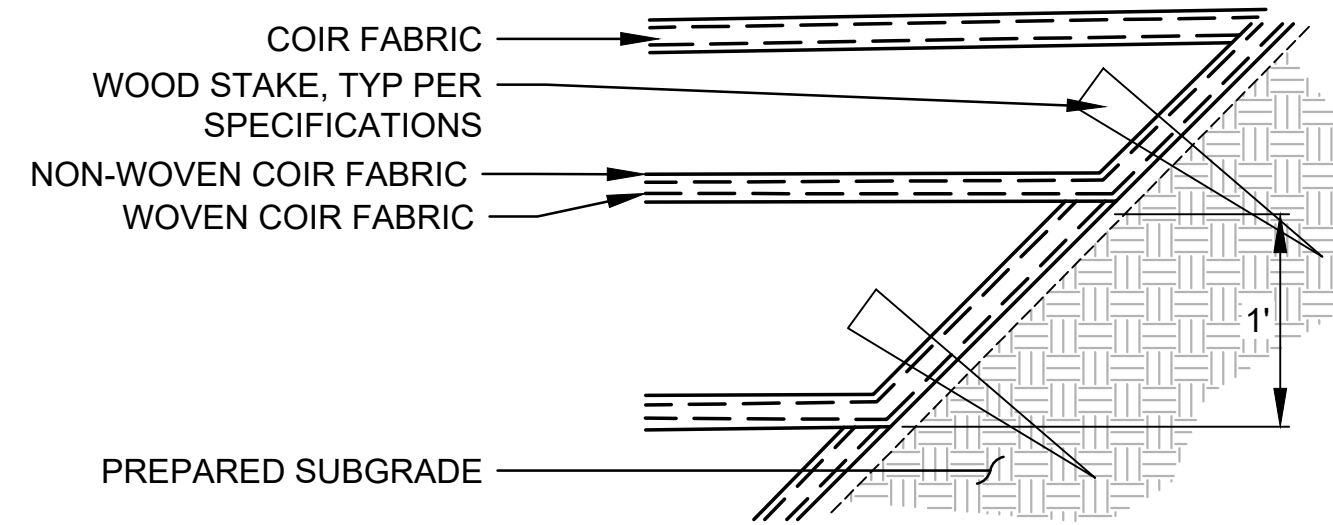
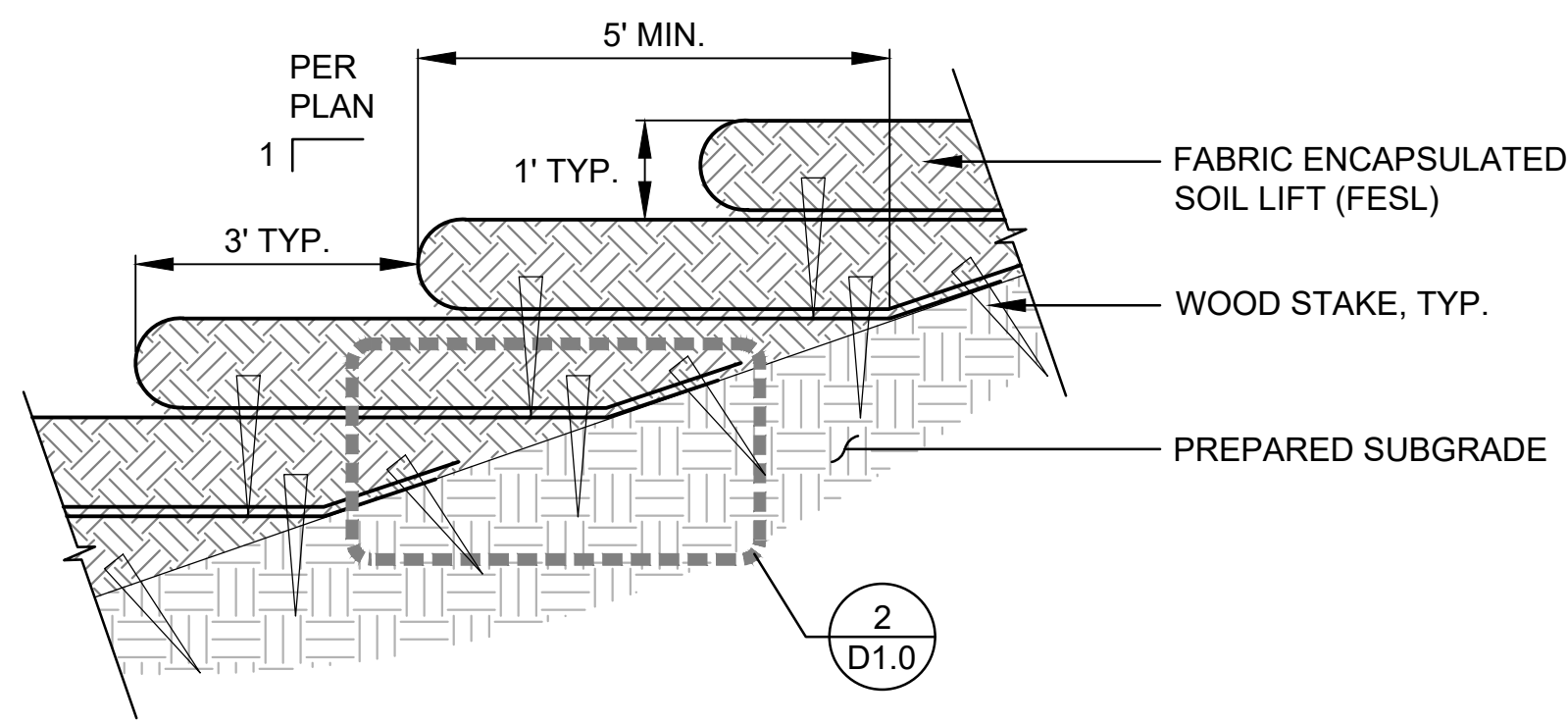
No.	Date	Revision
2	6.26.18	ADD002

Date: 6/26/18
 Drawn By: DNR
 Designed By: SAR, MJP
 Checked By: JGR

Sheet Name:
IRRIGATION PLAN

Sheet No.:
L2.0

Project No.:
D160484.00



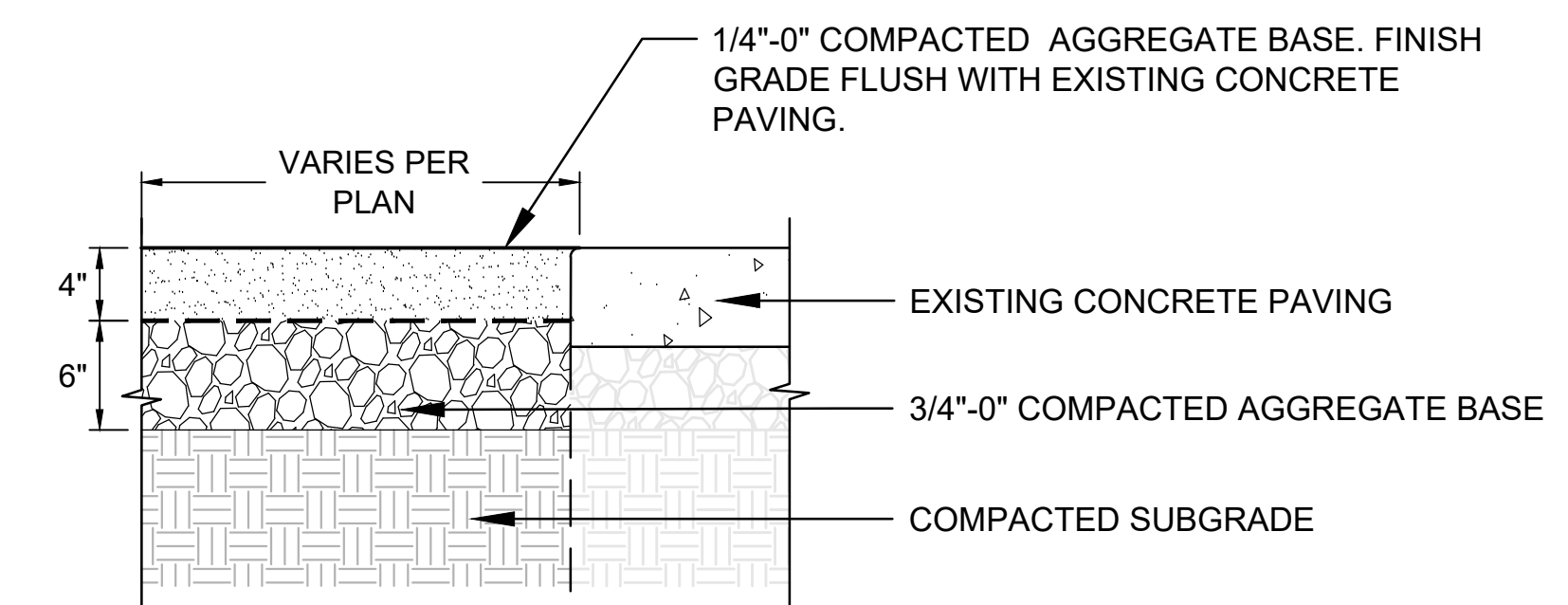
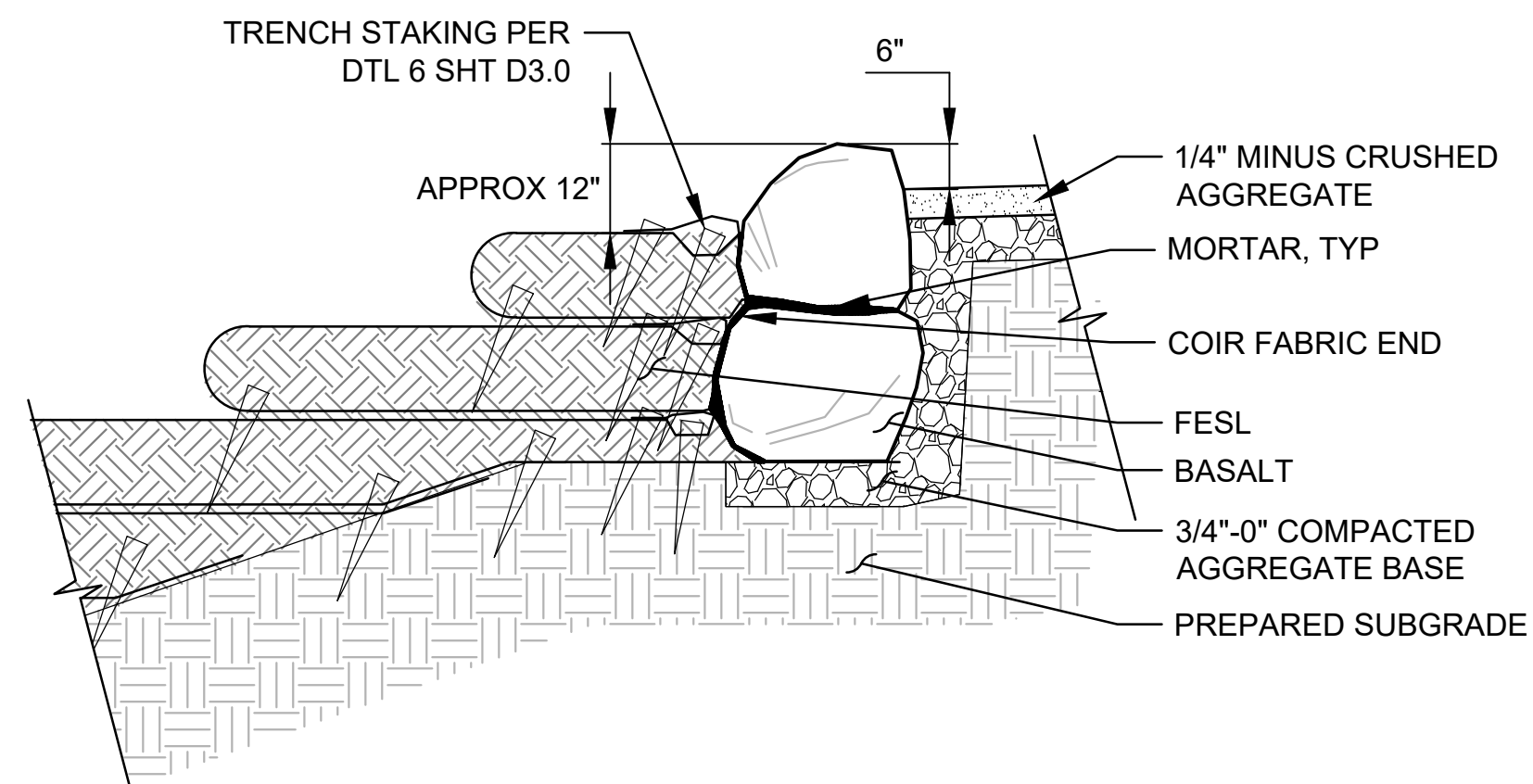
NOTES:

1. REVIEW FESL SPECIAL PROVISION FOR STEP BY STEP INSTRUCTIONS.
2. FOR SOIL LIFTS USE TWO LAYERS OF COIR FABRIC. THE INNER LAYER SHALL BE NON-WOVEN COIR FABRIC PER SPECIFICATIONS. THE OUTER LAYER SHALL BE CONTINUOUSLY WOVEN COIR FABRIC (NO SEAMS), HIGH STRENGTH, SEE SPECIFICATIONS.
3. SHINGLE SEPARATE SHEETS OF COIR FABRIC WITH A MINIMUM OVERLAP OF 2'. UPSTREAM SHEET SHALL BE ON TOP OF DOWNSTREAM SHEET.
4. PLACE WOOD STAKES AS REQUIRED IN THE SPECIFICATIONS.

2 FABRIC ENCAPSULATED SOIL LIFT ENLARGEMENT
NTS

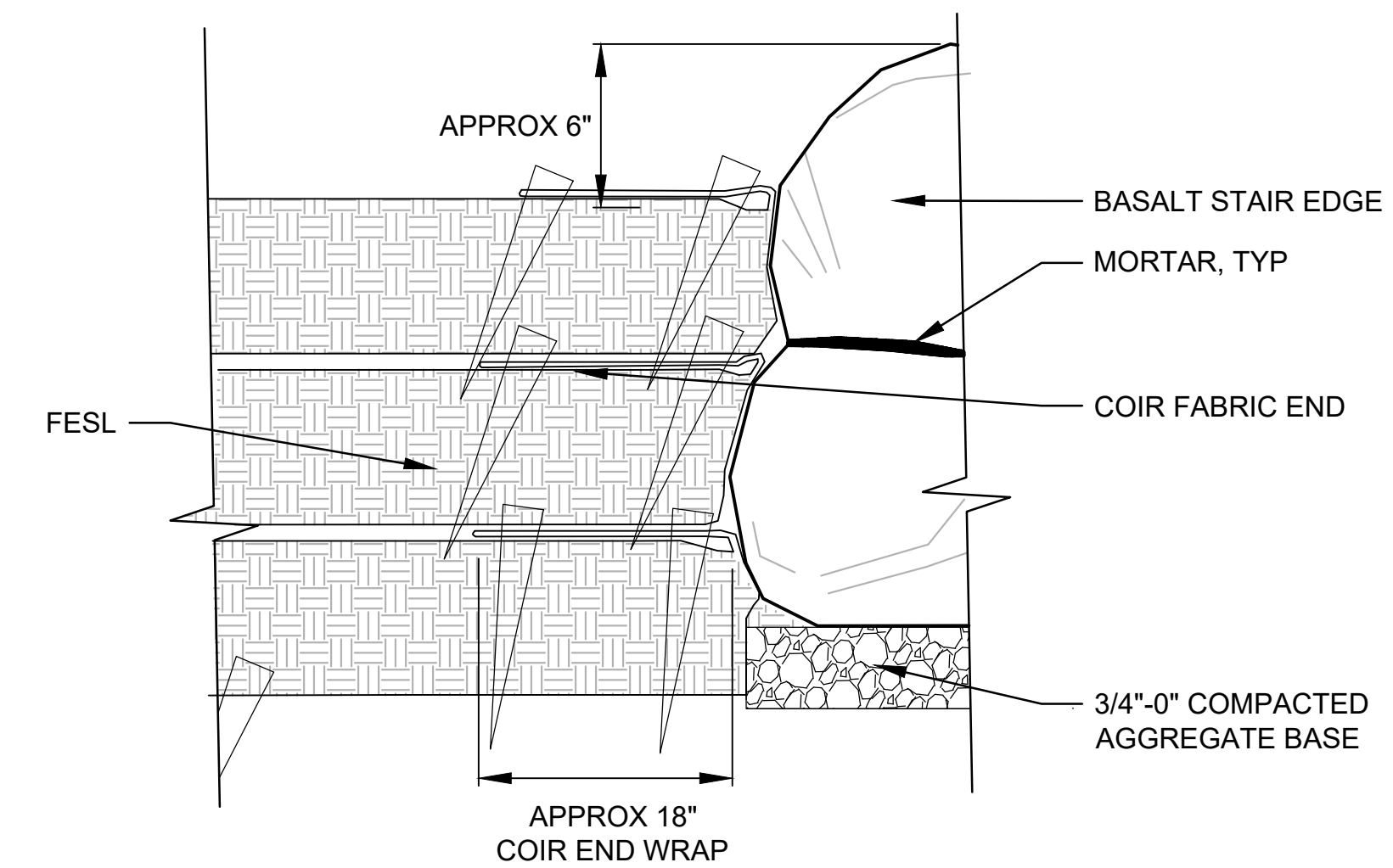
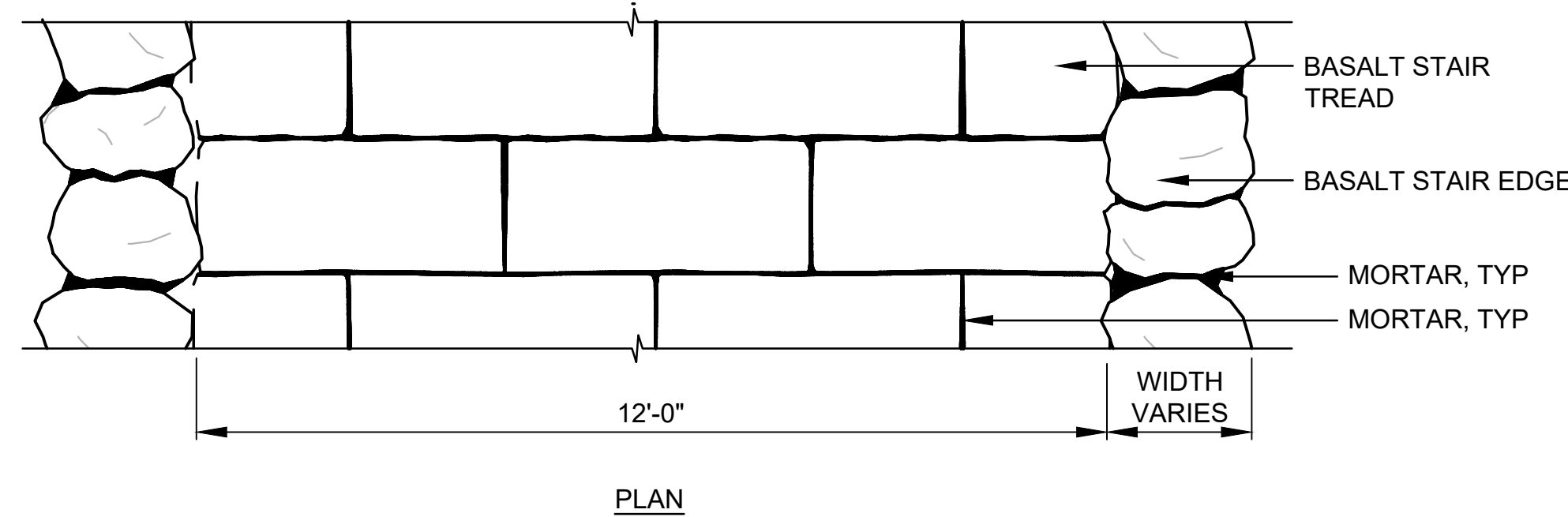
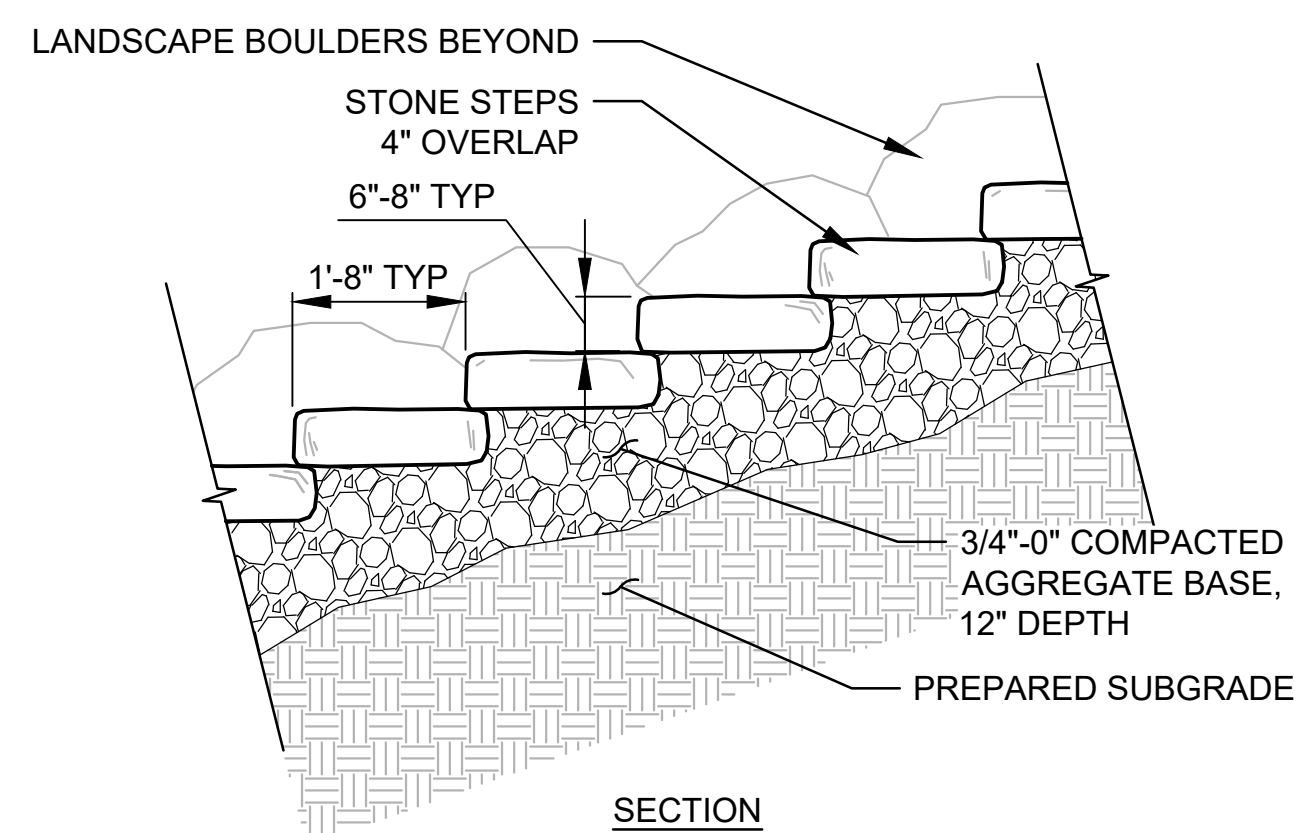
3 BOULDER TOE
1" = 3'-0"

1 FABRIC ENCAPSULATED SOIL LIFT (FESL)
1" = 2'-0"



4 BASALT WALL
1" = 2'-0"

5 CRUSHED STONE SURFACING
1" = 1'-0"



6 STONE STEPS
1" = 2'-0"

7 COIR WRAP AT BASALT STAIR EDGE
1" = 1'-0"

NOTE:
1. ALL COMPACTED ROCK TO MEET 90% AASHTO T99.

819 SE Morrison St,
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



RENEWAL DATE 12-31-19

CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222
RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date: 6/6/18
Designed By: SAR, MJP
Drawn By: DNR
Checked By: JGR

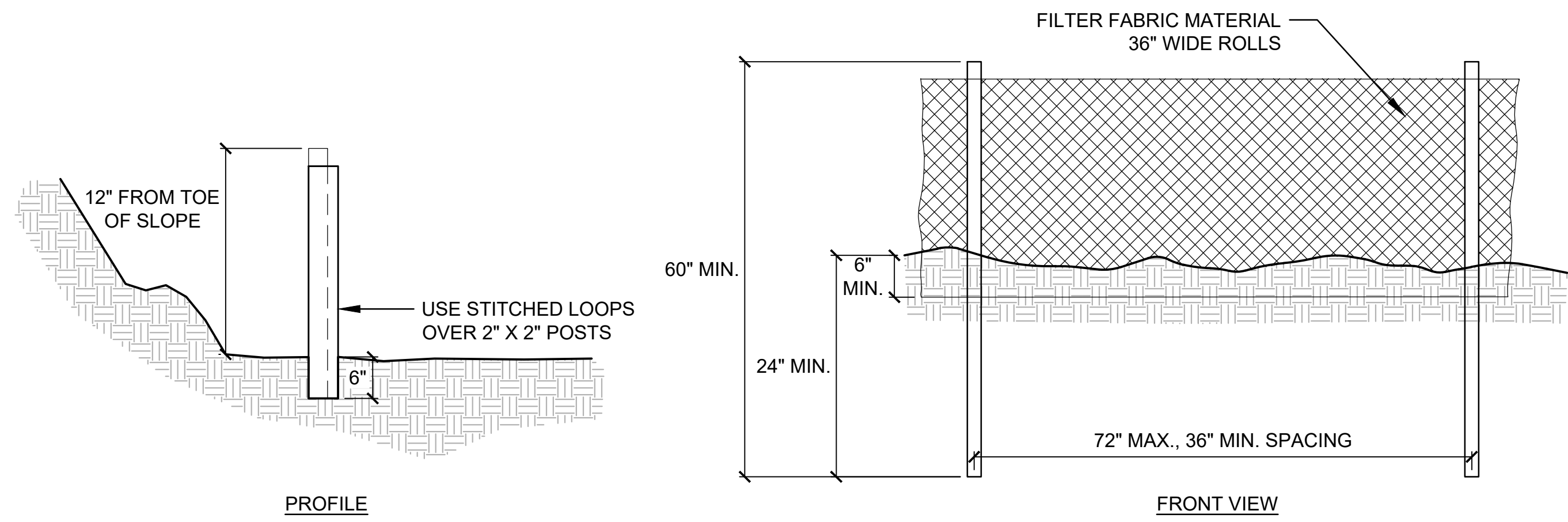
Sheet Name

SITE DETAILS

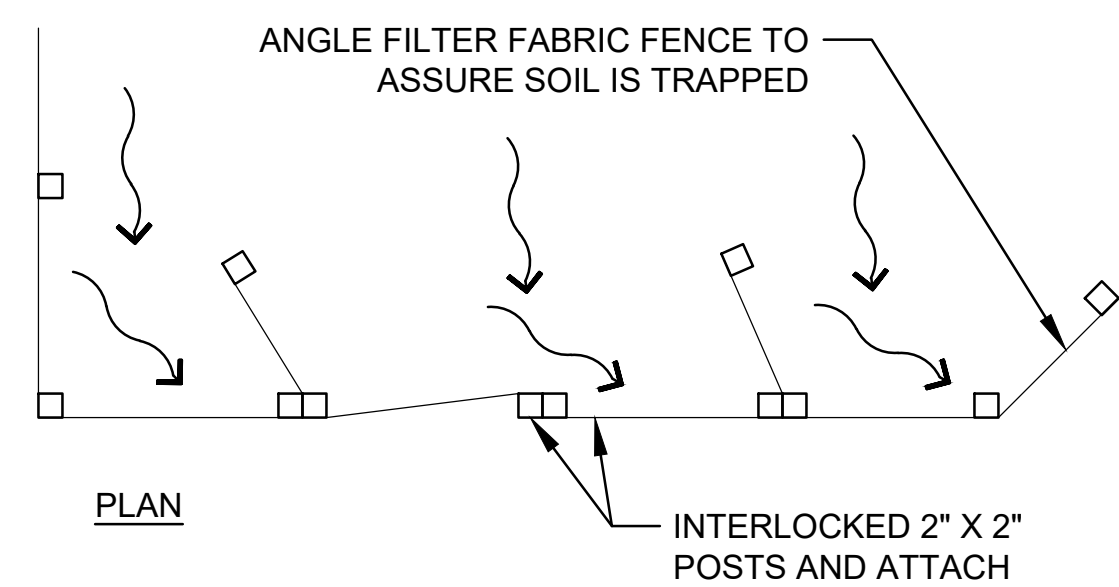
Sheet No.

D1.0

Project No.: D160484.00

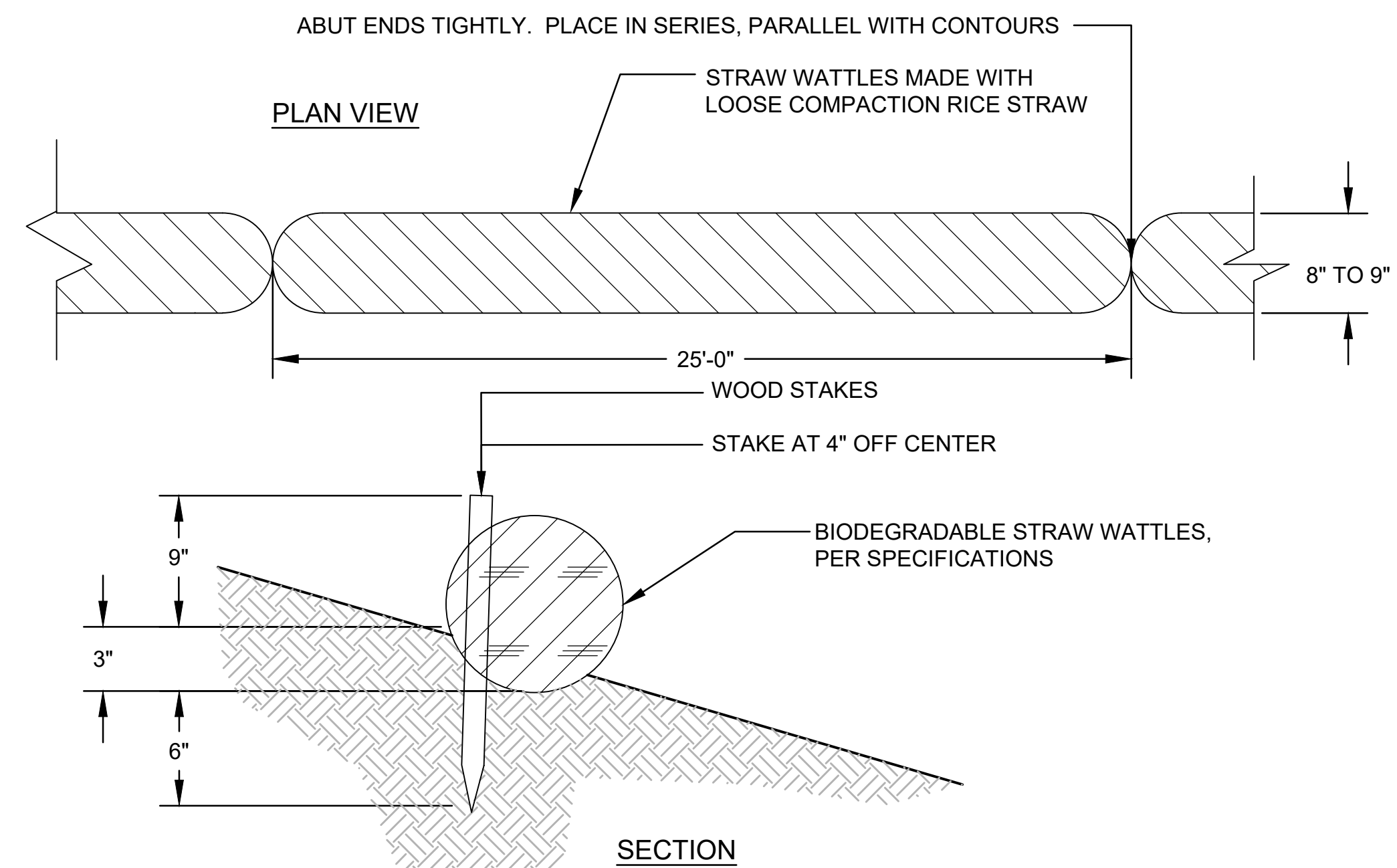


- NOTES:**
- BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
 - 2" X 2" FIR, PINE OR STEEL FENCE POSTS.
 - POSTS TO BE INSTALLED ON UPHIL SIDE OF SLOPE.
 - COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.



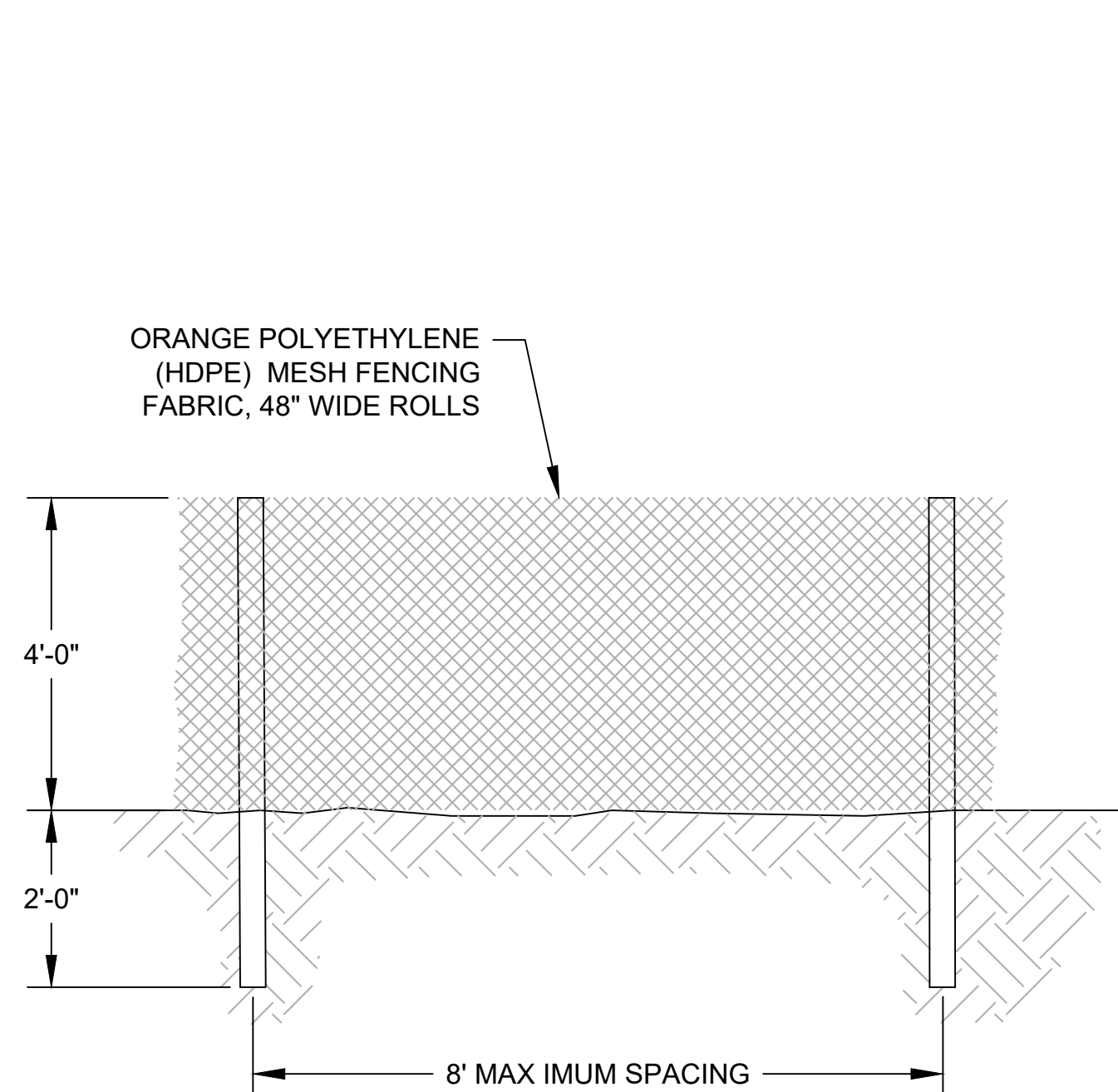
1 SEDIMENT FENCE

3/4" = 1'-0"



2 SEDIMENT BARRIER, TYPE 3

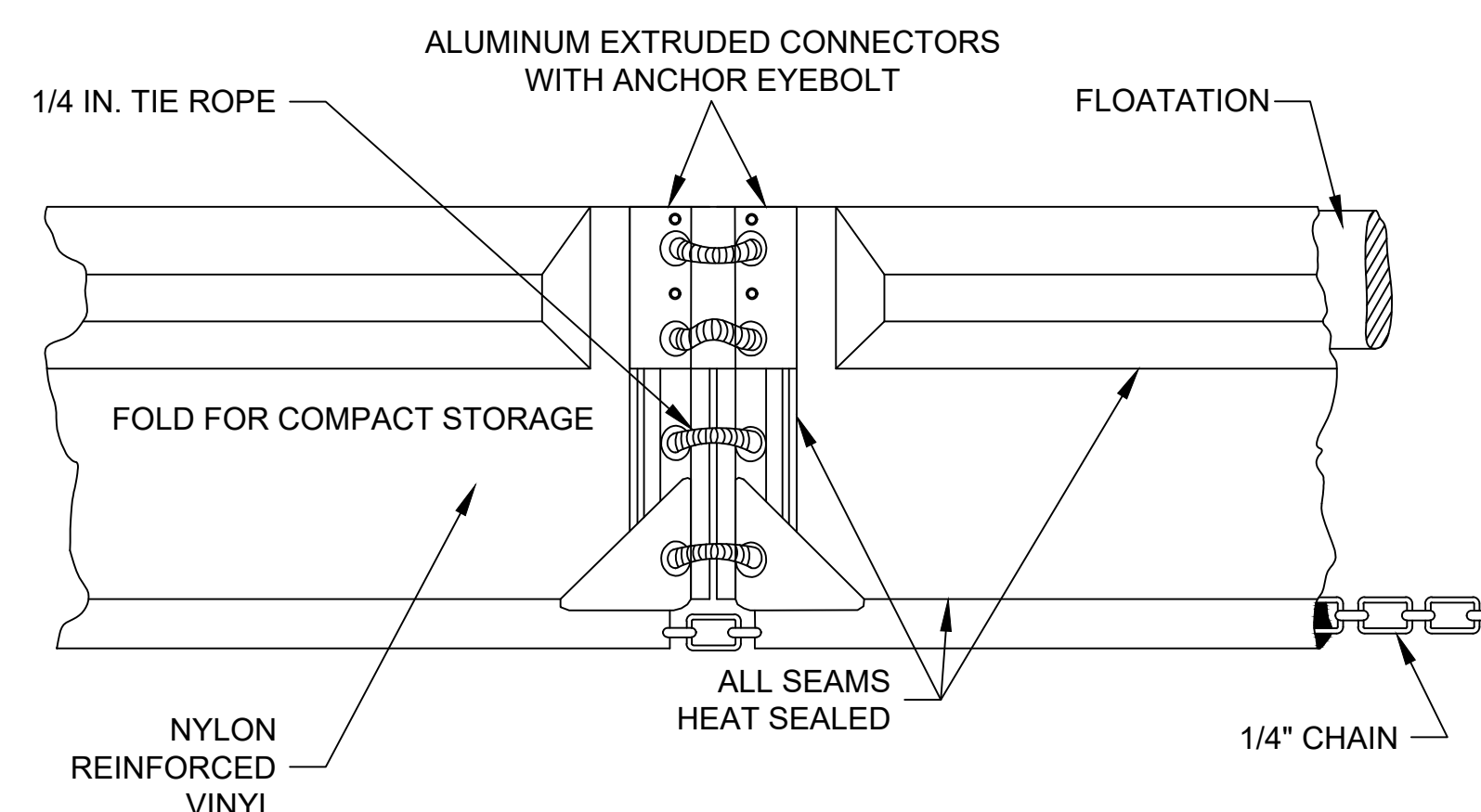
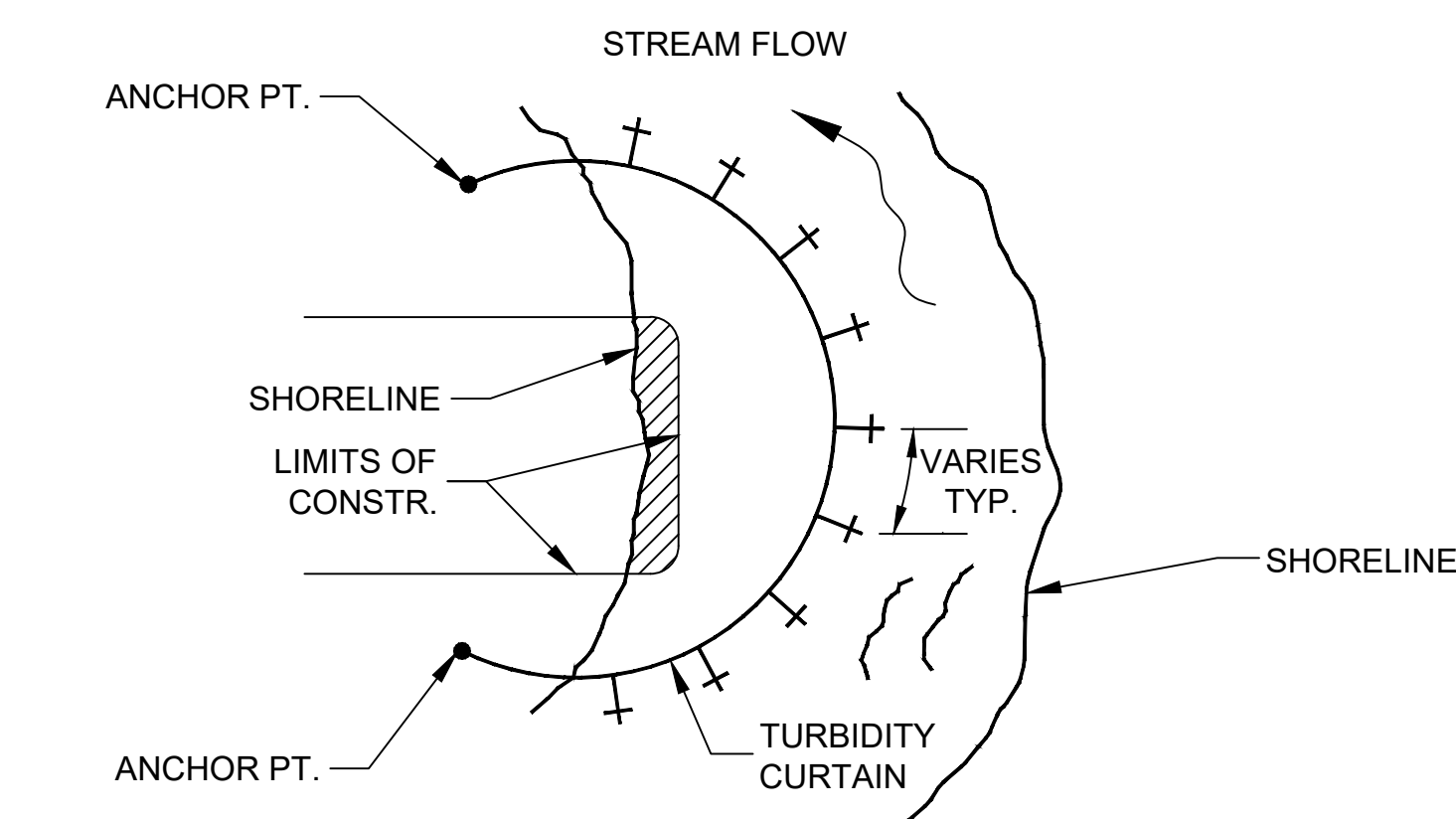
NOT TO SCALE



- NOTES:**
- 2"x 2"x 6" WOOD FENCE POSTS.
 - FASTEN FABRIC TO FENCE PER MANUFACTURER'S RECOMMENDATION.
 - INSURE ALL POST ARE SET FIRM AND STABLE INTO GROUND MIN. 2'-0" DEPTH.

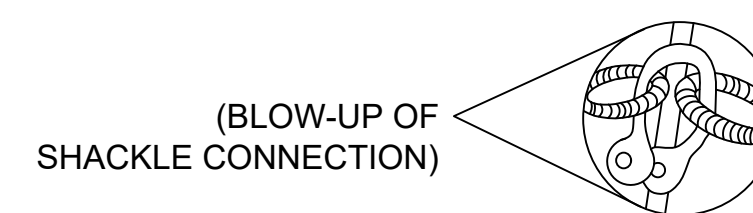
3 TEMPORARY TYPE HIGH VISIBILITY FENCE

NOT TO SCALE



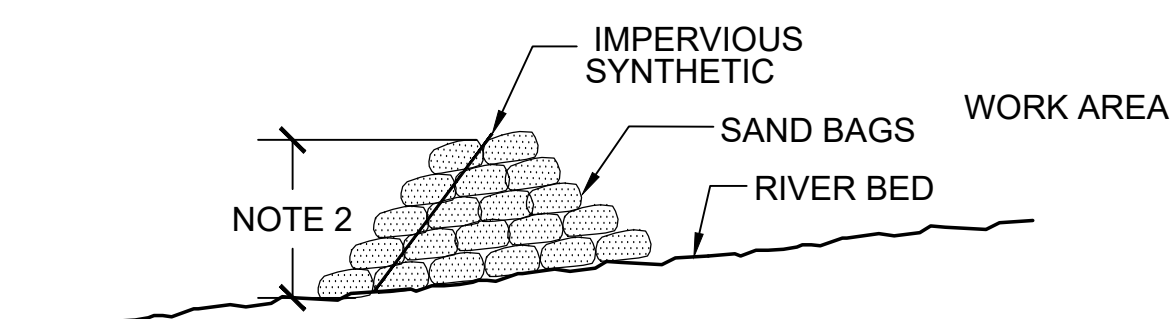
- STAKE OR ANCHOR, EVERY 100' (TYPICAL)
- EXCAVATION AREA

NOTE: INSTALL TYPE 2, MEDIUM DUTY TURBIDITY CURTAIN PER MANUFACTURER INSTRUCTIONS. 6FT MIN DEPTH TO ALLOW FOR TIDE FLUCTUATIONS.



4 FLOATING TURBIDITY BARRIER

NOT TO SCALE



- NOTE:**
- CONTRACTOR SHALL ROUTE RIVER FLOWS AROUND THE IN-WATER WORK ZONE. CONTRACTOR MAY USE SAND BAG DAM AS SHOWN.
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE HEIGHT OF THE DAM SUCH THAT IT IS NOT OVERTOPPED.

5 TEMPORARY ISOLATION DAM

NOT TO SCALE

819 SE Morrison St.
Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024



CITY OF MILWAUKIE
10722 SE MAIN STREET
MILWAUKIE, OR 97222

RIVERFRONT PARK BANK REPAIR

REVISION NUMBER

No.	Date	Revision

Date: 6/6/18
Designed By: SAR, MJP
Drawn By: DNR
Checked By: JGR

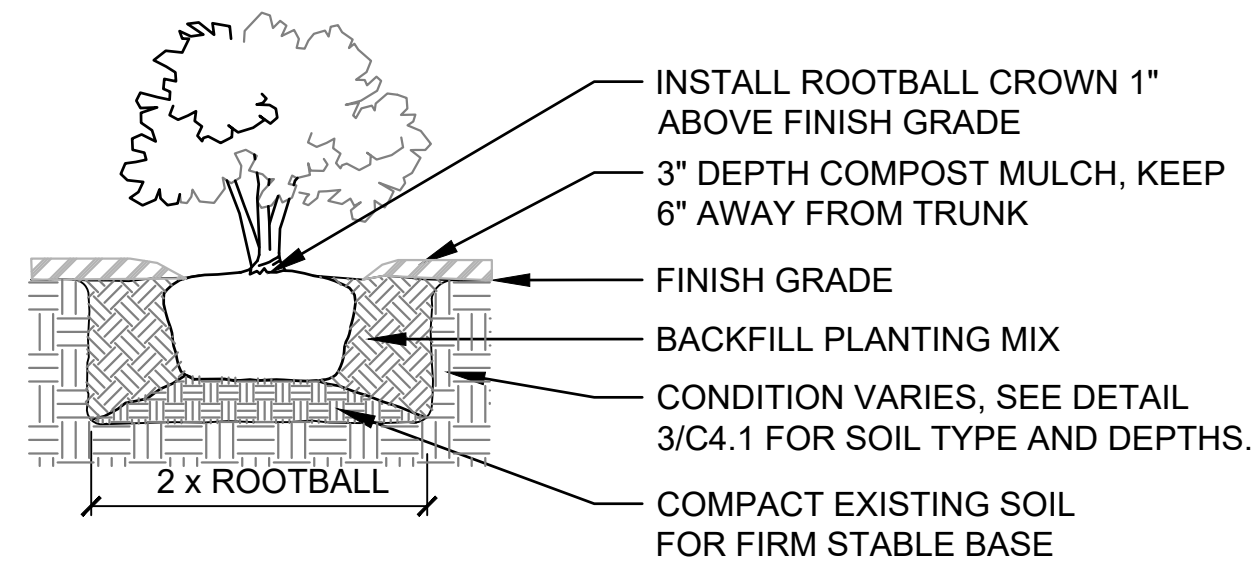
Sheet Name

EROSION CONTROL DETAILS

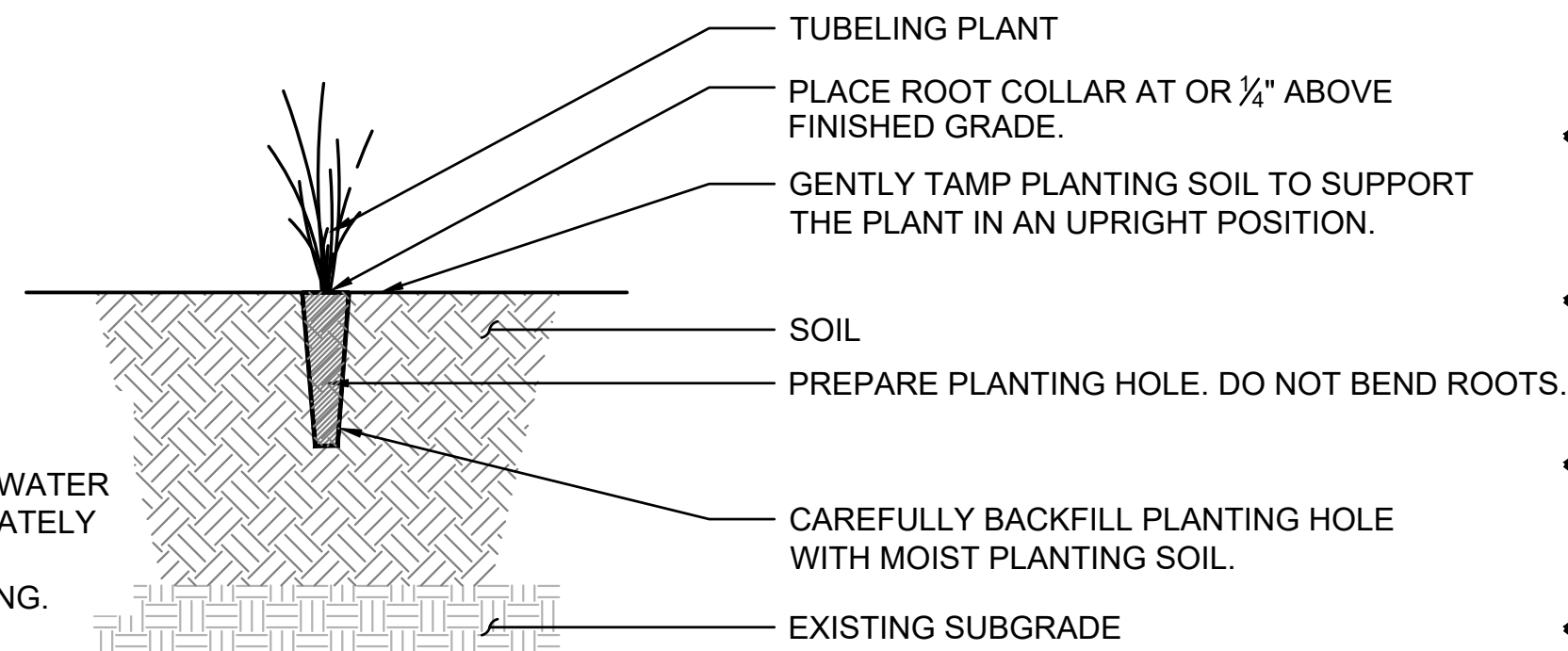
Sheet No.

D2.0

Project No.:
D160484.00



SHRUB PLANTING



NOTE:

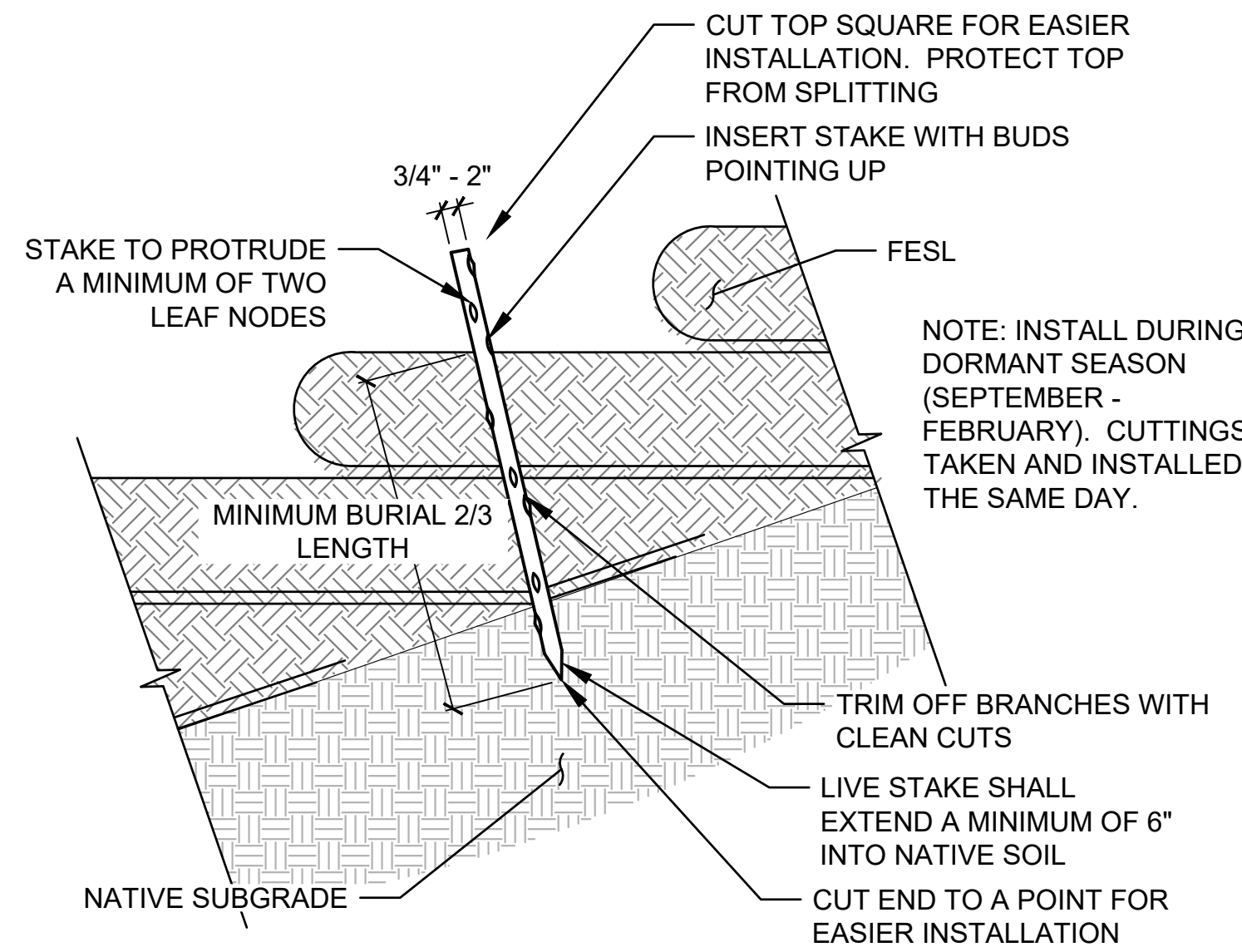
APPLY WATER IMMEDIATELY AFTER PLANTING.

TUBELING

SHRUB AND TUBELING PLANT INSTALLATION

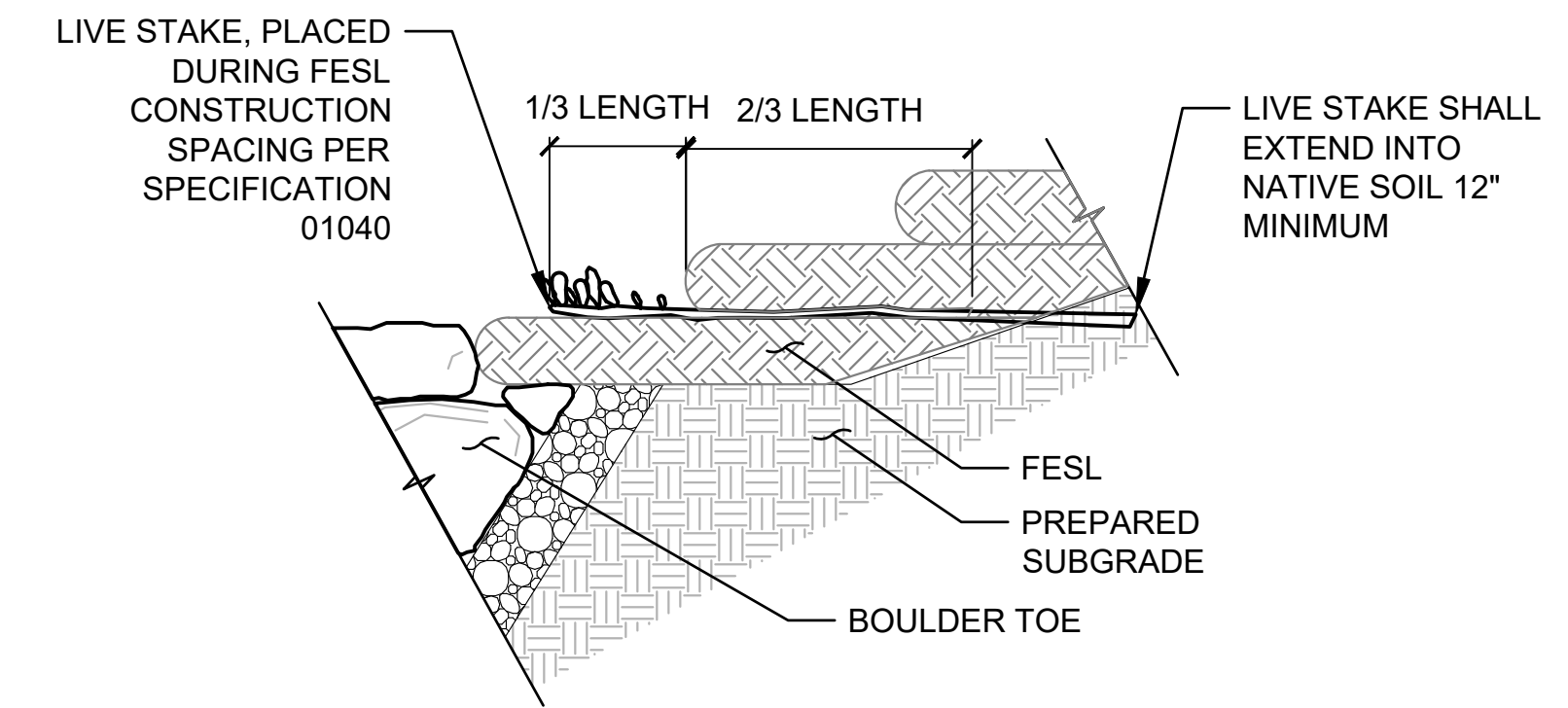
1 NTS

2
ADD002



VERTICAL LIVE STAKE PLANTING

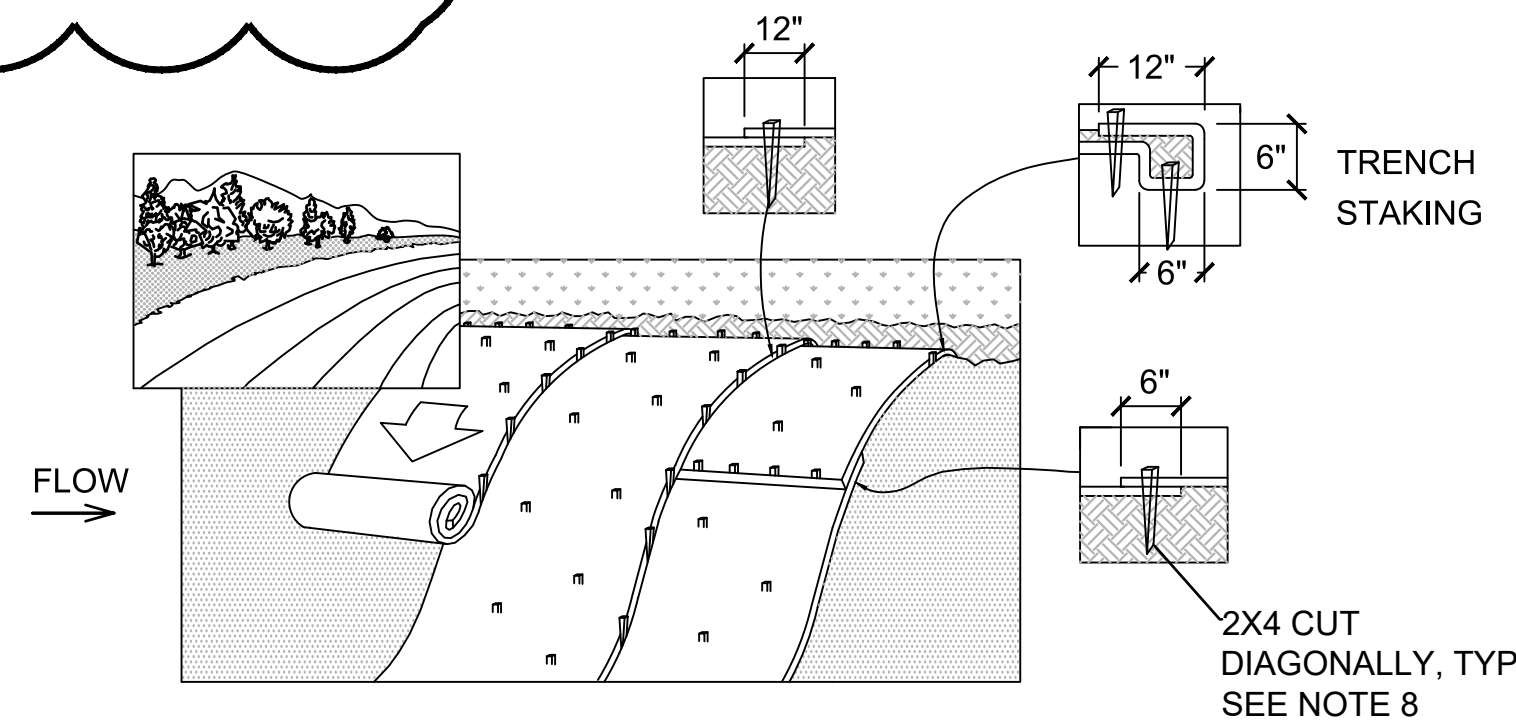
2 NTS



HORIZONTAL LIVE STAKE PLANTING

3 NTS

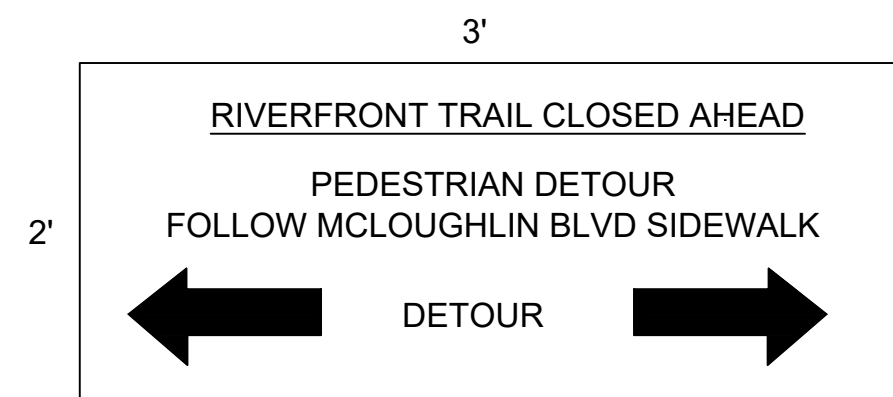
2
ADD002



- PREPARE SOIL BEFORE INSTALLING FABRIC.
- USE DIFFERENT COIR FABRICS FOR FESL AS SHOWN IN SPECIFICATIONS.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF WOOD STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF FABRIC BACK OVER SEED AND COMPACTED SOIL. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
- ROLL THE FABRIC DOWN THE SLOPE. FABRIC WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL FABRIC MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES A MINIMUM OF 3' ON CENTER IN A GRID PATTERN AS SHOWN.
- THE EDGES OF PARALLEL FABRIC PIECES MUST BE STAKED WITH MINIMUM 1" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE FABRIC LENGTH.
- CONSECUTIVE FABRIC PIECES SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH MINIMUM 1" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE FABRIC WIDTH.
- AT THE BOTTOM OF THE SLOPE ANCHOR THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE DOWN-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF WOOD STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. AFTER PLACING STAKES, BACKFILL AND COMPACT THE TRENCH. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
- ALL STAKES TO BE 12" LONG 2X4 CUT DIAGONALLY OR APPROVED EQUIVALENT.

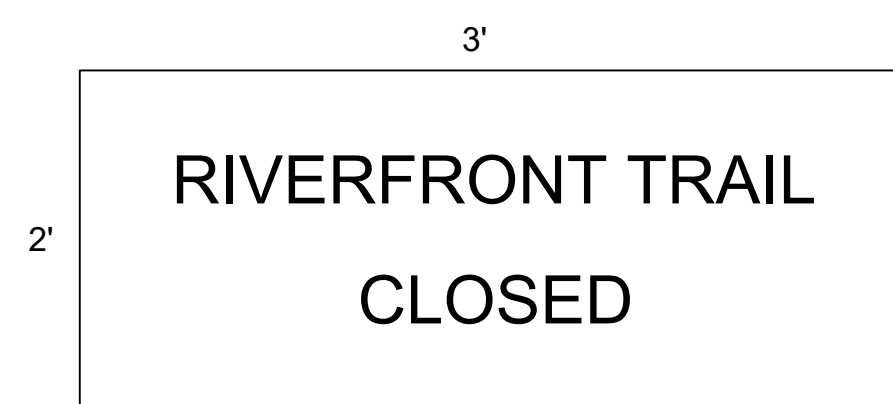
EROSION CONTROL FABRIC

5 NTS



NOTE:
 USE ARROWS AS INDICATED ON ACCESS PLAN (SHEET C1.1) FOR INDIVIDUAL SIGNS.

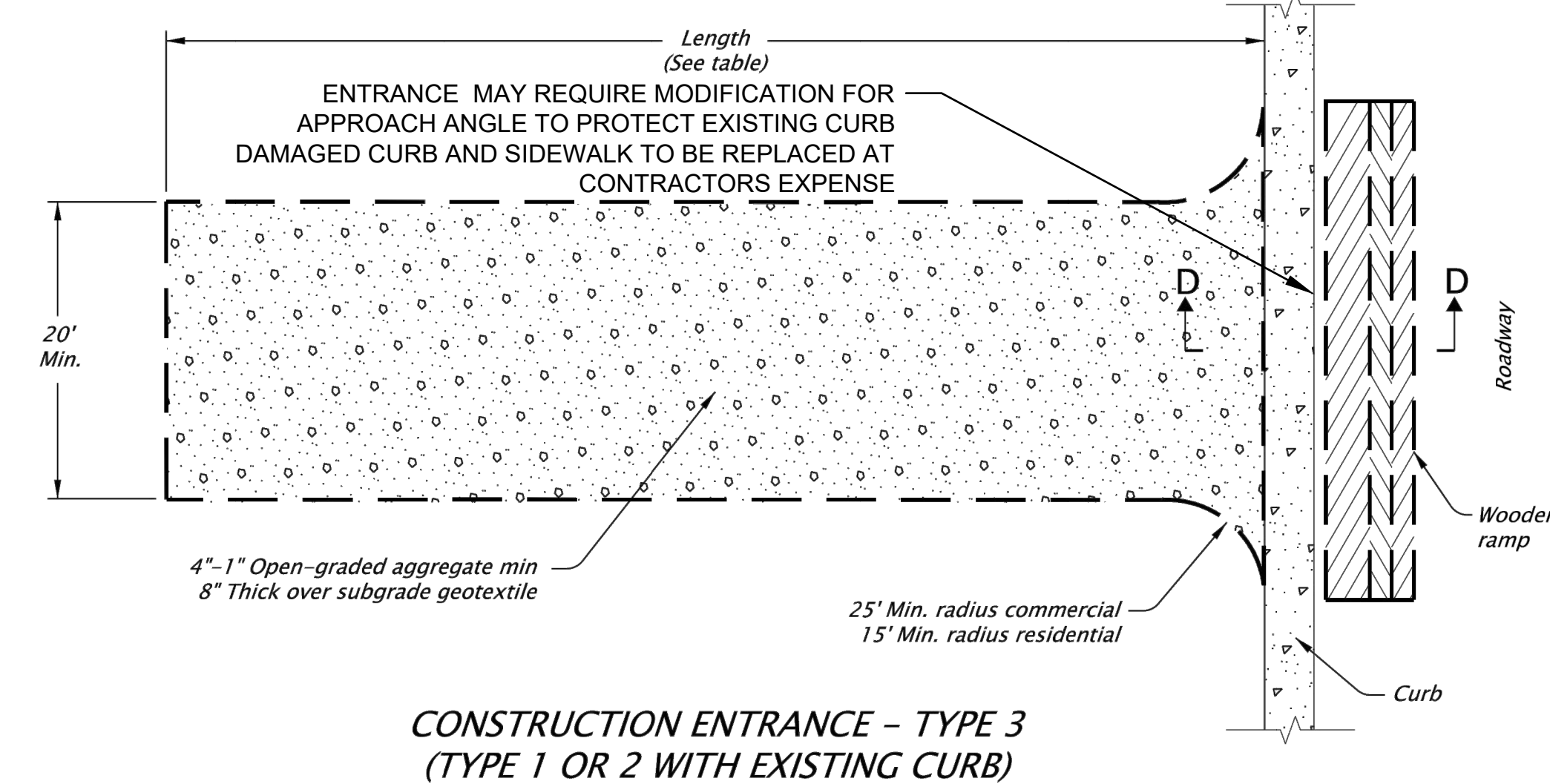
TYPE A



TYPE B

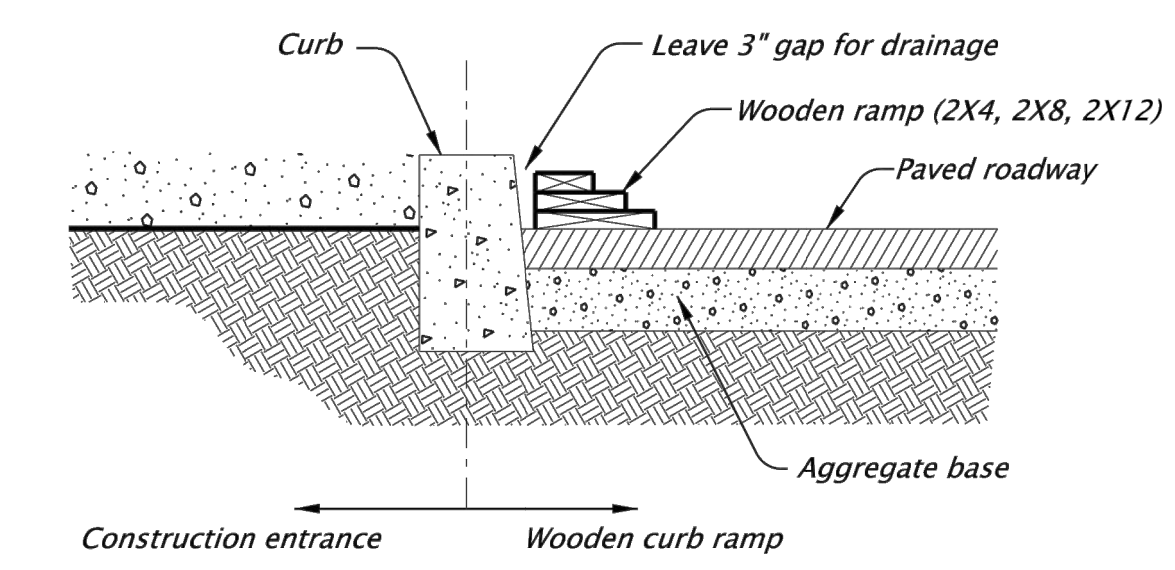
PEDESTRIAN DETOUR SIGN

4 NTS



CONSTRUCTION ENTRANCE - TYPE 3 (TYPE 1 OR 2 WITH EXISTING CURB)

CONSTRUCTION ENTRANCE TABLE MINIMUM LENGTH	
Length (FT)	Area Of Exposed Soil (Acre)
20	0.25
50	0.25 < A < 1.0
100	A > 1.0



WOODEN CURB RAMP SECTION D-D

CONSTRUCTION ENTRANCE 3 ODOT DETAIL #RD1000

6 NTS

819 SE Morrison St.
 Suite 310
 Portland, OR 97214
 P: (503) 274-2010
 F: (503) 274-2024



REGISTERED
 644
 STEVEN A. ROELOF
 OREGON
 11/30/07
 LANDSCAPE ARCHITECT
 RENEWS: 11/30/18

CITY OF MILWAUKIE
 10722 SE MAIN STREET
 MILWAUKIE, OR 97222
 RIVERFRONT PARK BANK REPAIR

REVISION NUMBER		
No.	Date	Revision
1	6.26.18	ADD002

Date: 6/26/18
 Drawn By: DNR
 Designed By: SAR, MJP
 Checked By: JGR

DETAILS

Sheet No. D3.0

Project No.: D160484.00