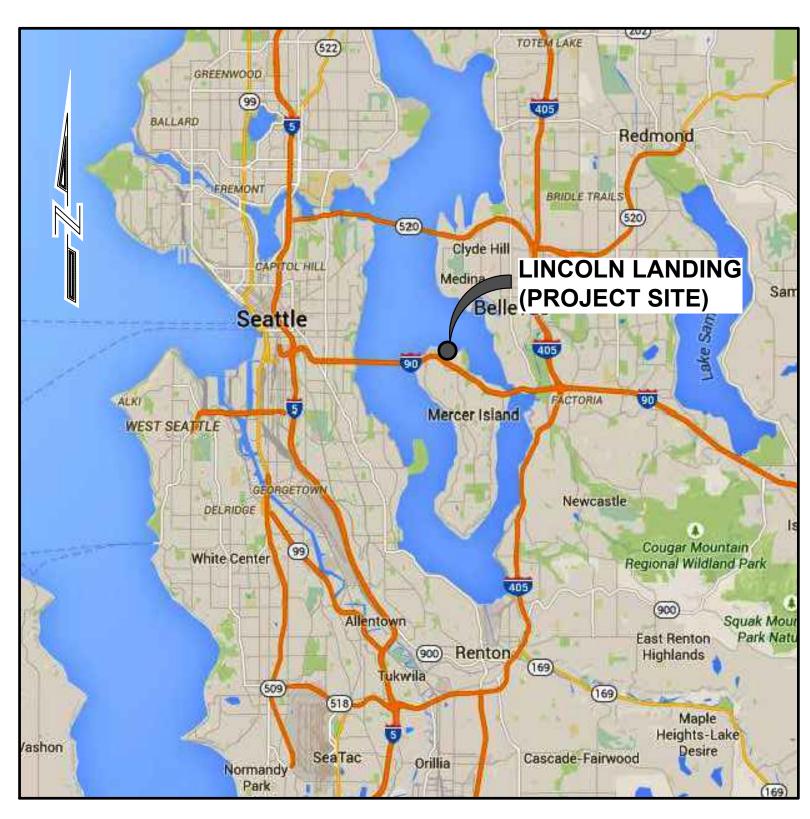
21-26: LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT

NOVEMBER 2021



VICINITY MAP



AERIAL PHOTO

TITLE SHEET AND DRAWING INDEX OVERALL SITE PLAN

TITLE

OVERALL SITE PLAN	G1.01
TYPE 1 WATERCOURSE BUFFER PLAN	D1.00
EXISTING CONDITIONS, DEMOLITION, AND TESC PLAN	D1.01
DEMOLITION AND TESC DETAILS	D1.02
GRADING AND CONTROL PLAN	C1.01
GRADING AND SURFACING DETAILS	C1.02
BEACH DETAILS	C1.03
STORMWATER PLAN	C2.01
RESTORED TYPE 1 - WATERCOURSE PROFILE	C2.02
STORMWATER DETAILS	C2.03
RESTORED TYPE 1 WATERCOURSE DETAILS	C2.04
RESTORED TYPE 1 WATERCOURSE DETAILS	C2.05
SANITARY SEWER RECONFIGURATION PLAN	C3.01
SANITARY SEWER RECONFIGURATION PLAN	C3.02
SANITARY SEWER RECONFIGURATION DETAILS	C3.03
PLANTING SCHEDULE, LEGEND, ABBR, NOTES	L1.01
AND FURNISHINGS LEGEND	
PLANTING PLAN	L1.02
PLANTING DETAILS	L1.03
PLANTING DETAILS	L1.04
IRRIGATION SCHEDULE, LEGEND, ABBR & NOTES	L2.01
IRRIGATION CONEDULE, LECEND, ADDR & NOTES	L2.01
	_
IRRIGATION DETAILS	L2.03

SHEET INDEX

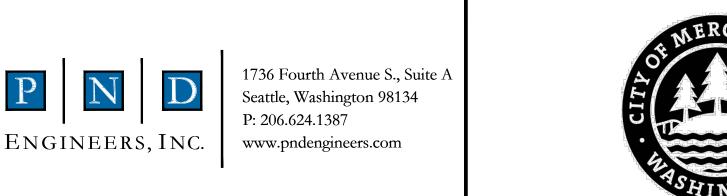
No.

T1.01

L2.04

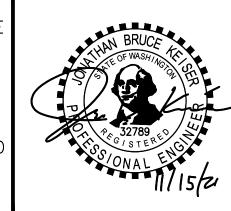
NCLUDE A VERIFIABLE DIGITAL SIGNATURE IN THE BOX ABOVE, PLEASE CONTACT THE ENGINEER OF RECORD FOR THE ORIGINAL CERTIFIED ELECTRONIC DOCUMENT.

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY



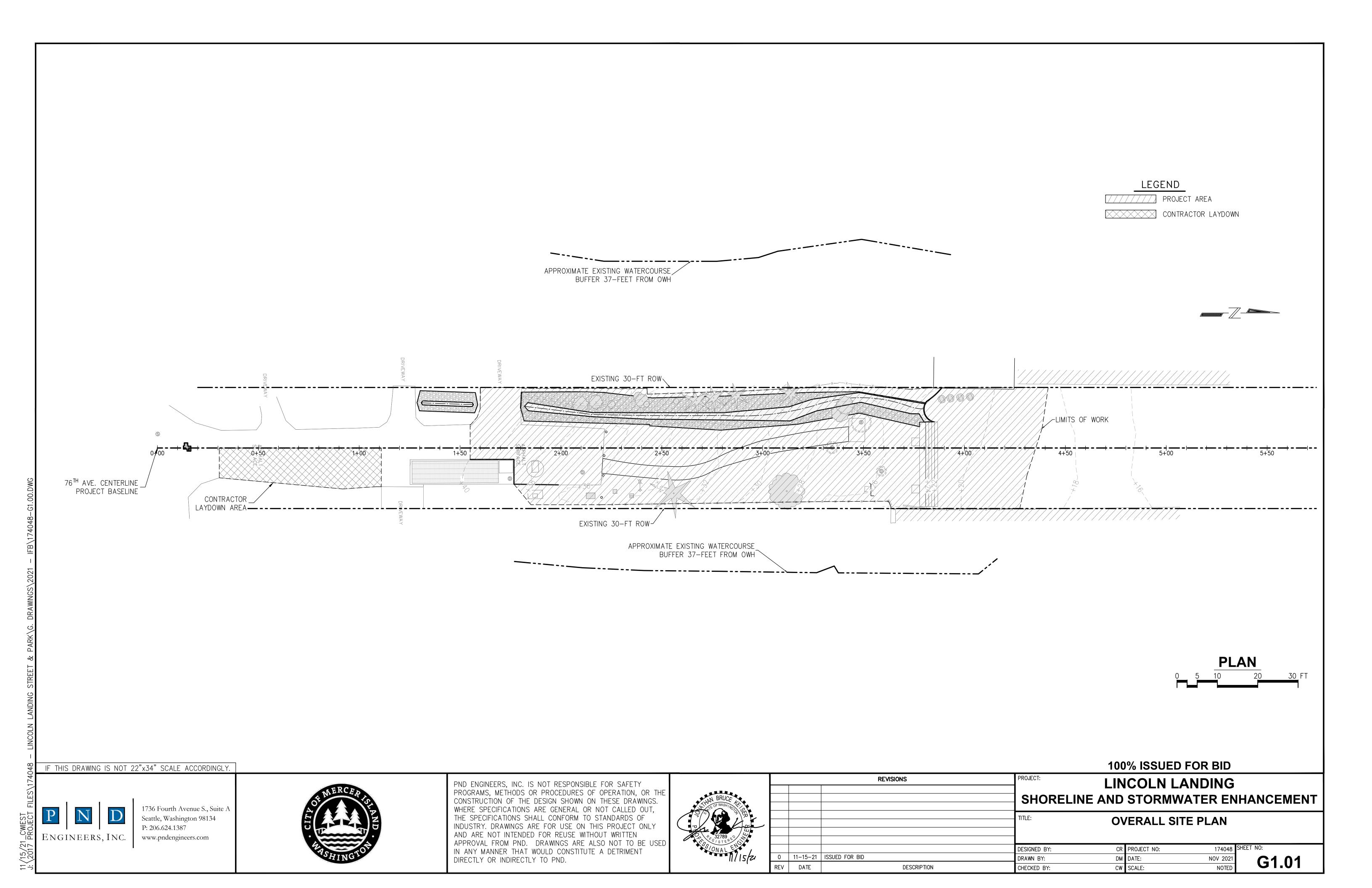


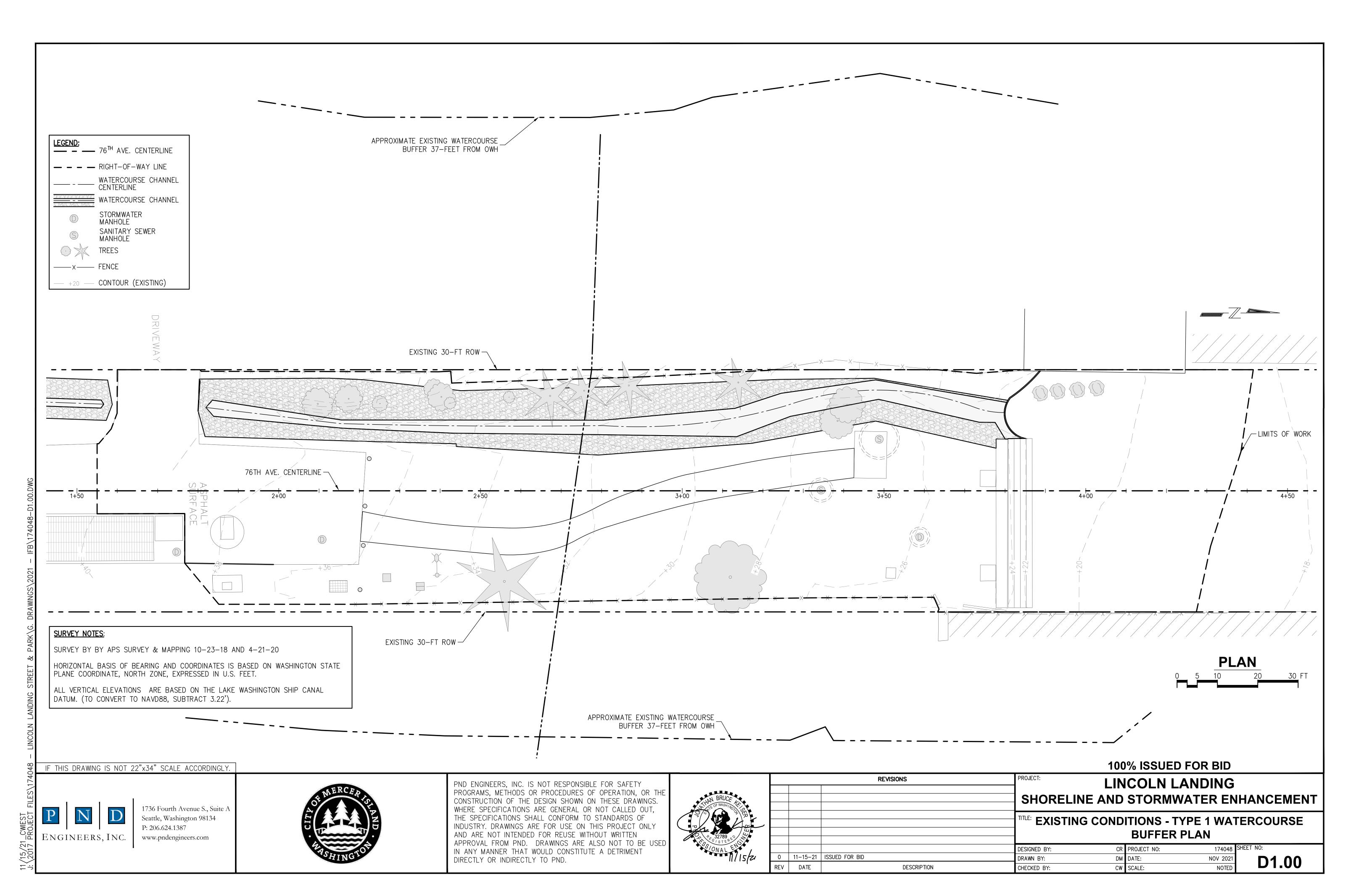
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USE IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

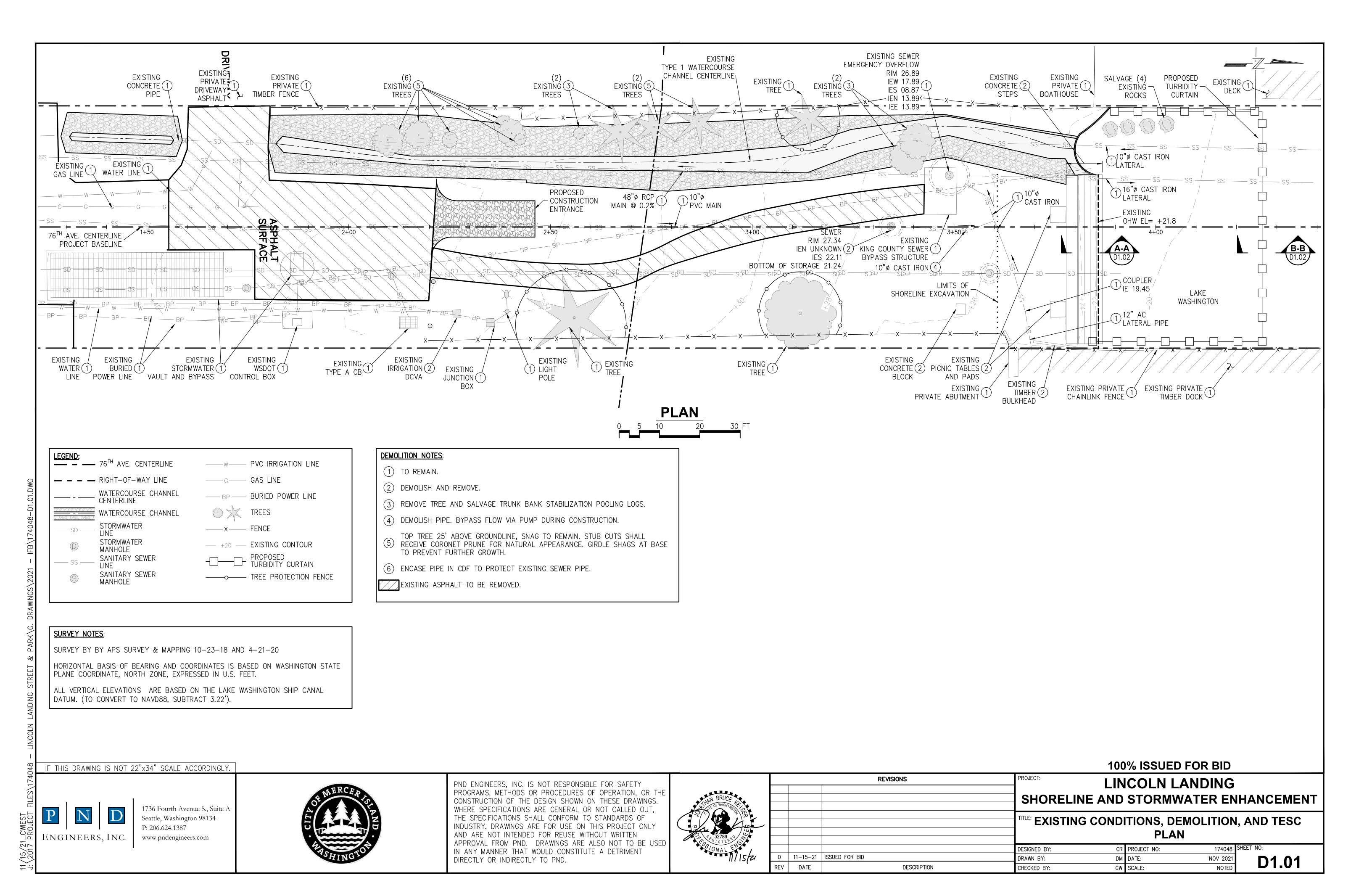


					100	% ISSUED	FOR BID		
			REVISIONS	LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEME					
_				TITLE:	TLE SHI	EET AND D	RAWING IN	DEX	
				DESIGNED BY:	CR	PROJECT NO:	174048 SH	EET NO:	
	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	T1.01	
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	1 1.0 1	

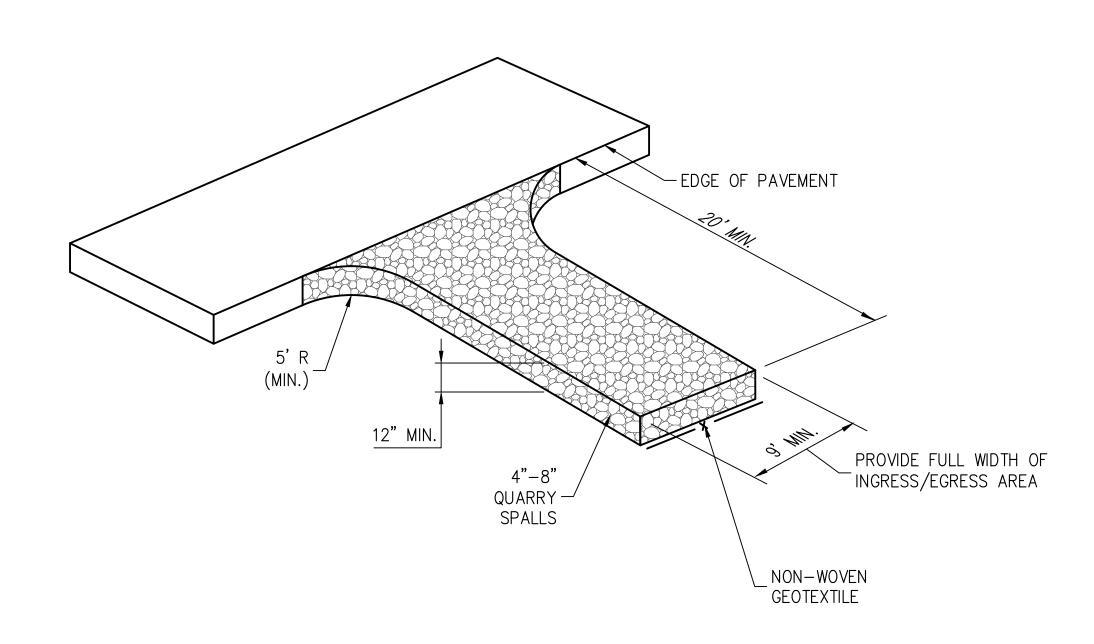
IRRIGATION DETAILS

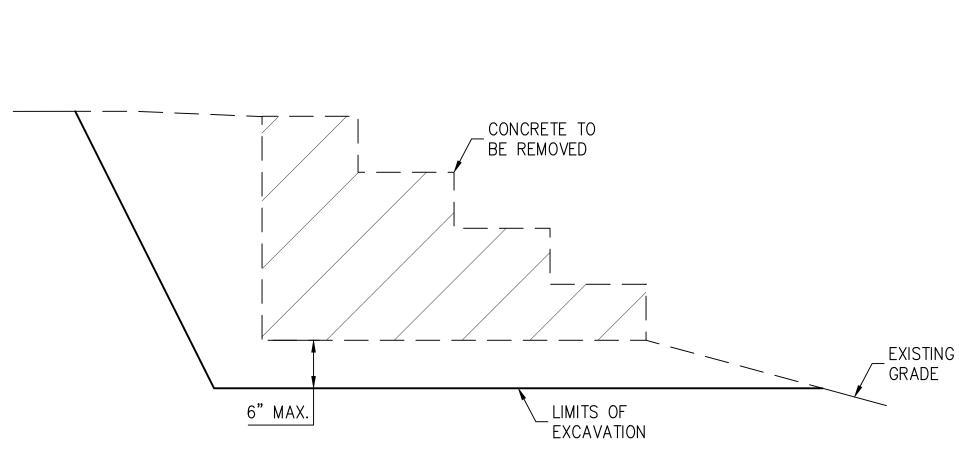


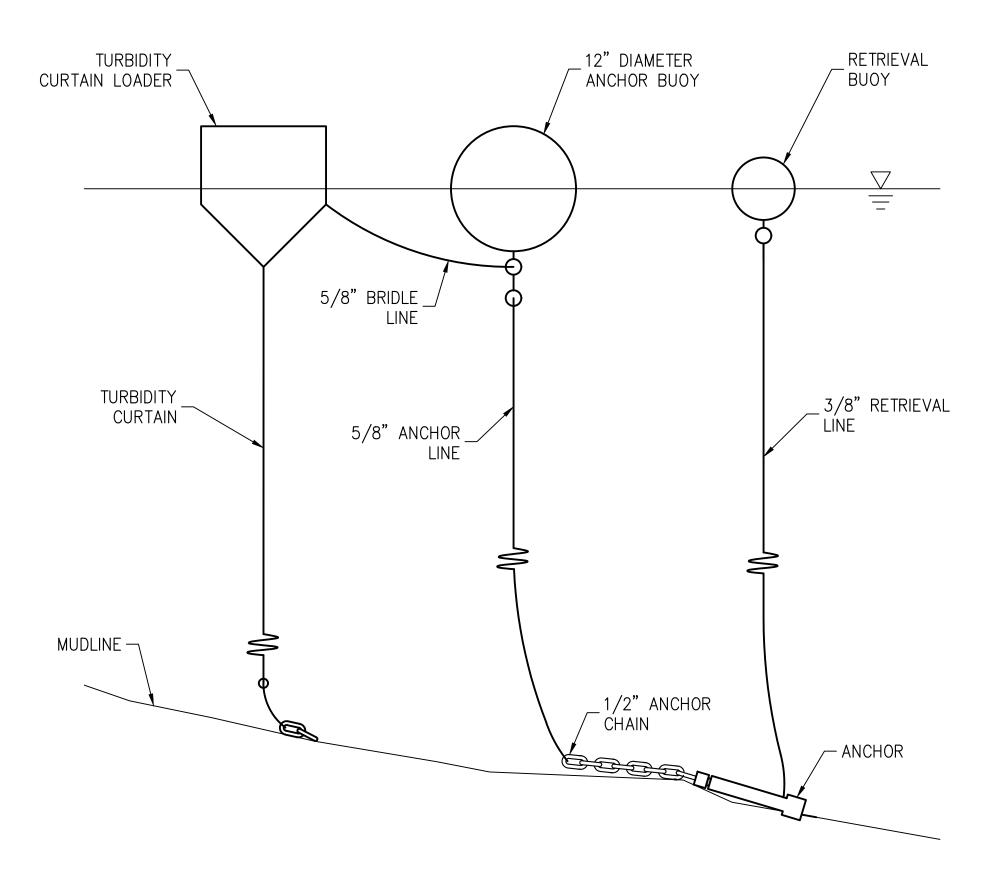




- 2) The TESC facilities shown on this plan must be constructed prior to or in conjunction with all clearing and grading so as to ensure that the transport of sediment to surface waters, drainage systems, and adjacent properties is minimized.
- 3) The TESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded as needed for unexpected storm events and modified to account for changing site conditions (e.g., additional sump pumps, relocation of ditches and silt fences, etc.).
- 4) The TESC facilities shall be inspected daily by the Contractor and maintained to ensure continued proper functioning. Written records shall be kept of weekly reviews of the TESC facilities during the wet season.
- 5) Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season or seven days during the dry season shall be immediately stabilized with the approved TESC methods (e.g., mulching, plastic covering, etc.).
- 6) Any area needing TESC measures not requiring immediate attention shall be addressed within fifteen (15) days.
- 7) The TESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within forty—eight (48) hours following a storm event.
- 8) At no time shall more than one (1) foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment—laden water into the downstream system.
- 9) Stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project. Where mulch for temporary erosion control is required, it shall be applied at a minimum thickness of 2 to 3 inches. No straw or hay bales permitted.
- 10) During the period of November 1 through March 31, all project disturbed areas greater than 5,000 square feet and where no further work is anticipated for a period of fifteen (15) days, shall be covered by one of the following cover measures: mulch or plastic covering.







CONSTRUCTION ENTRANCE

NOT TO SCALE





IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.







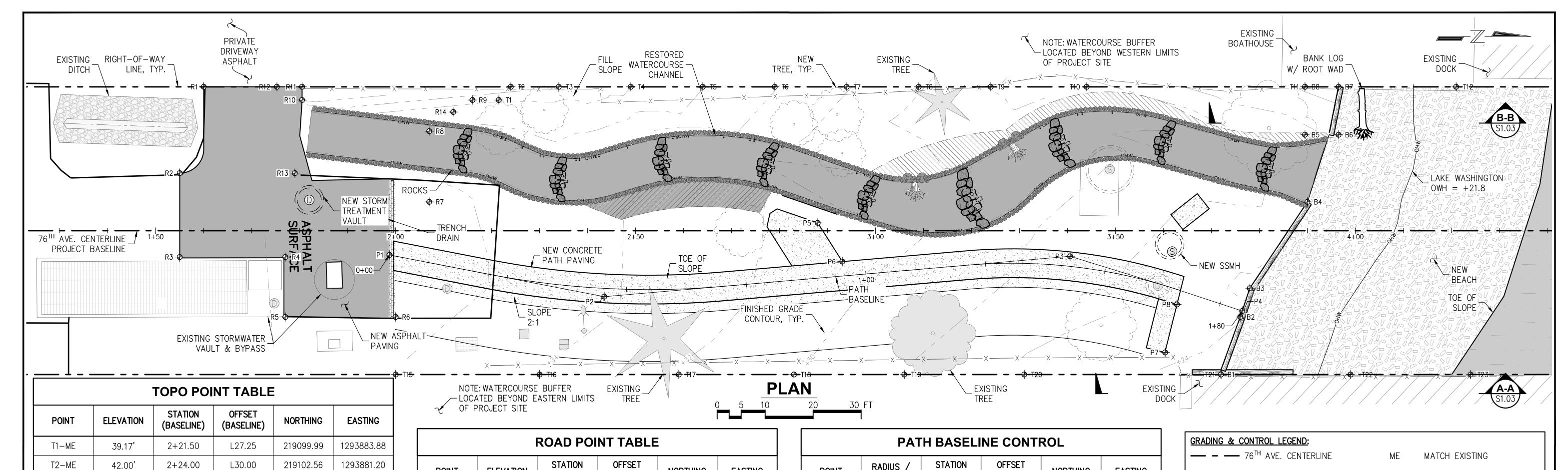
1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 www.pndengineers.com



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



			•	100%	6 ISSUED	FOR BID	
		REVISIONS	SHORELINE AN			ANDING ATER EN	HANCEMENT
<u>ر</u>			TITLE:	EMO	OLITION A	AND TESC LS	
			DESIGNED BY:	CR P	ROJECT NO:	174048	SHEET NO:
	0	11-15-21 ISSUED FOR BID	DRAWN BY:	DM D	ATE:	NOV 2021	D1.02
	REV	DATE DESCRIPTION	CHECKED BY:	CW S	CALE:	NOTED	D 1.02



	Т		Т		
POINT	ELEVATION	STATION (BASELINE)	OFFSET (BASELINE)	NORTHING	EASTING
T1-ME	39.17'	2+21.50	L27.25	219099.99	1293883.88
T2-ME	42.00'	2+24.00	L30.00	219102.56	1293881.20
T3-ME	40.00'	2+34.00	L30.00	219112.56	1293881.49
T4-ME	38.00'	2+49.00	L30.00	219127.55	1293881.91
T5-ME	36.00'	2+64.00	L30.00	219142.55	1293882.34
T6-ME	34.00'	2+79.00	L30.00	219157.54	1293882.76
T7-ME	32.00'	2+94.00	L30.00	219172.54	1293883.18
T8-ME	30.00'	3+09.00	L30.00	219187.53	1293883.61
T9-ME	28.00'	3+24.00	L30.00	219202.52	1293884.03
T10-ME	26.00'	3+44.00	L30.00	219222.52	1293884.60
T11-ME	24.00'	3+89.50	L30.00	219267.99	1293885.89
T12-ME	22.00'	4+21.00	L30.00	219299.49	1293886.78
T13-ME	20.00'	4+46.00	L30.00	219324.48	1293887.49
T14-ME	18.00'	4+57.00	L30.00	219335.47	1293887.80
T15-ME	36.00'	2+00.00	R30.00	219076.88	1293940.50
T16-ME	34.00'	2+30.00	R30.00	219106.86	1293941.35
T17-ME	32.00'	2+59.00	R30.00	219135.85	1293942.17
T18-ME	30.00'	2+83.00	R30.00	219159.84	1293942.85
T19-ME	28.00'	3+06.00	R30.00	219182.83	1293943.50
T20-ME	26.00'	3+31.00	R30.00	219207.82	1293944.21
T21-ME	24.00'	3+72.00	R30.00	219248.81	1293945.37
T22-ME	22.00'	3+99.00	R30.00	219275.80	1293946.13
T23-MF IF THIS DRAWN	20 00' NG IS NOT 22">	4+24 00 (34" SCALE AC	R30 00 CORDINGLY.	219300.79	1293946.84

		ROAD POI	NT TABLE		
POINT	ELEVATION	STATION (BASELINE)	OFFSET (BASELINE)	NORTHING	EASTING
R1-ME	42.40'	1+60.00	L30.00	219038.59	1293879.39
R2-ME	40.00'	1+55.00	L12.00	219033.08	1293897.25
R3-ME	40.00'	1+55.00	R5.50	219032.59	1293914.74
R4-ME	38.58'	1+77.00	R5.50	219054.58	1293915.36
R5-ME	38.12'	1+77.00	R18.00	219054.22	1293927.86
R6	37.90'	2+00.00	R18.00	219077.22	1293928.51
R7	38.00'	2+07.00	L6.00	219084.89	1293904.71
R8	38.50'	2+07.00	L20.75	219085.31	1293889.97
R9	38.70'	2+16.00	L27.25	219094.49	1293883.73
R10	39.00'	1+80.50	L27.25	219059.00	1293882.72
R11	42.90'	1+80.50	L30.00	219059.08	1293879.97
R12-ME	43.00'	1+75.25	L30.00	219053.83	1293879.83
R13	39.50'	1+79.00	L12.00	219057.07	1293897.92
R14	39.45'	2+12.00	L24.75	219090.42	1293886.11

	PATH BASELINE CONTROL									
POINT	RADIUS / DESCRIPTION	STATION (BASELINE)	OFFSET (BASELINE)	NORTHING	EASTING					
P1	START	1+98.71	R5.07	219076.29	1293915.54					
P2	176.42'	2+43.48	R13.76	219120.80	1293925.50					
P3	109.95	3+40.55	R5.34	219218.07	1293919.83					
P4	END	3+76.42	R16.75	219253.60	1293932.25					
P5	START	2+87.96	L1.62	219165.70	1293911.38					
P6	END	2+93.09	R6.45	219170.59	1293919.59					
P7	START	3+60.36	R25.40	219237.31	1293940.44					
P8	END	3+62.82	R15.38	219240.04	1293930.49					

BEACH POINT TABLE									
POINT ELEVATION		STATION OFFSET (BASELINE)		NORTHING	EASTING				
B1	24.00'	3+72.00	R30.00	219248.81	1293945.37				
B2	24.00'	3+76.00	R18.00	219253.15	1293933.49				
В3	24.00'	3+78.00	R12.00	219255.31	1293927.54				
B4	24.00'	3+90.00	L6.00	219267.82	1293909.89				
B5	24.00'	3+89.50	L20.00	219267.71	1293895.88				
В6	23.50'	3+96.50	L20.00	219274.71	1293896.08				
B7	23.50'	3+96.50	L30.00	219275.00	1293886.08				
B8	24.00'	3+89.50	L30.00	219268.00	1293885.89				

GRADING & CONTROL LEGEND:		
— − 76 TH AVE. CENTERLINE	ME	MATCH EXISTING
— — — RIGHT—OF—WAY LINE	+20	- CONTOUR (MAJOR)
NEW ASPHALT PAVING	+22	CONTOUR (MINOR)
NEW CONCRETE PATH PAVING		NEW TREES
NEW BEACH ROCK		

100% ISSUED FOR BID





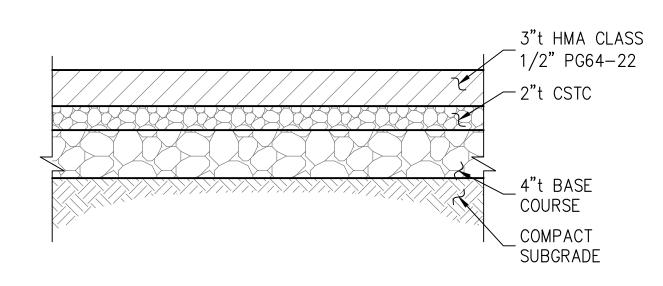


1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 ENGINEERS, INC. www.pndengineers.com



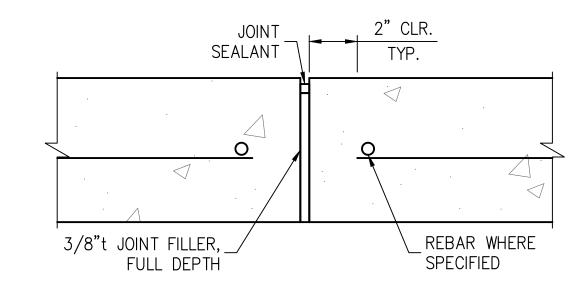


					100	70 1000LB	· OIX DID	
			REVISIONS	PROJECT:	I IN	COLN LA	ANDING	
				SHORELIN				HANCEMEN ⁻
_				TITLE:	GRA	DING AND PLAN		
				DESIGNED BY:	CR	PROJECT NO:	174048 SH	HEET NO:
•	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C1.01
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALF:	NOTED	U 1.0 1



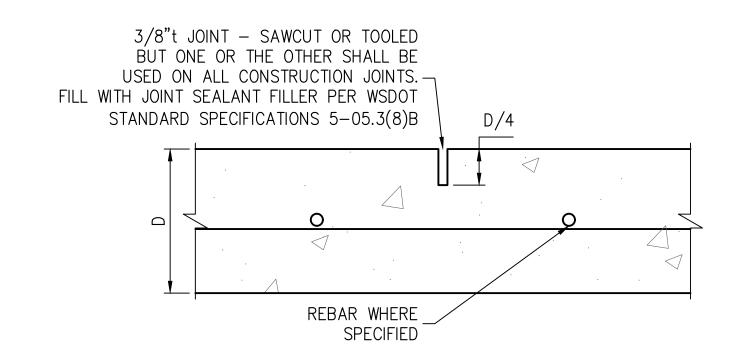
TYPICAL CONCRETE SURFACING

TYPICAL HOT MIX ASPHALT (HMA) STREET SECTION



NOTE:
PROVIDE FULL DEPTH EXPANSION JOINT MINIMUM EVERY 30-FT AND DUMMY JOINT MINIMUM EVERY 15-FT.

TYPICAL CONCRETE **CONSTRUCTION JOINT**



TYPICAL CONCRETE **CONTRACTION JOINT**

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.





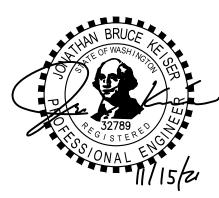




1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 ENGINEERS, INC. www.pndengineers.com



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



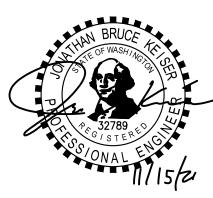
			REVISIONS	LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT					
_				TITLE:	GRAD	ING AND S		G	
				DESIGNED BY:	CR	PROJECT NO:	174048	SHEET NO:	
′	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C1.02	
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	G 1.02	



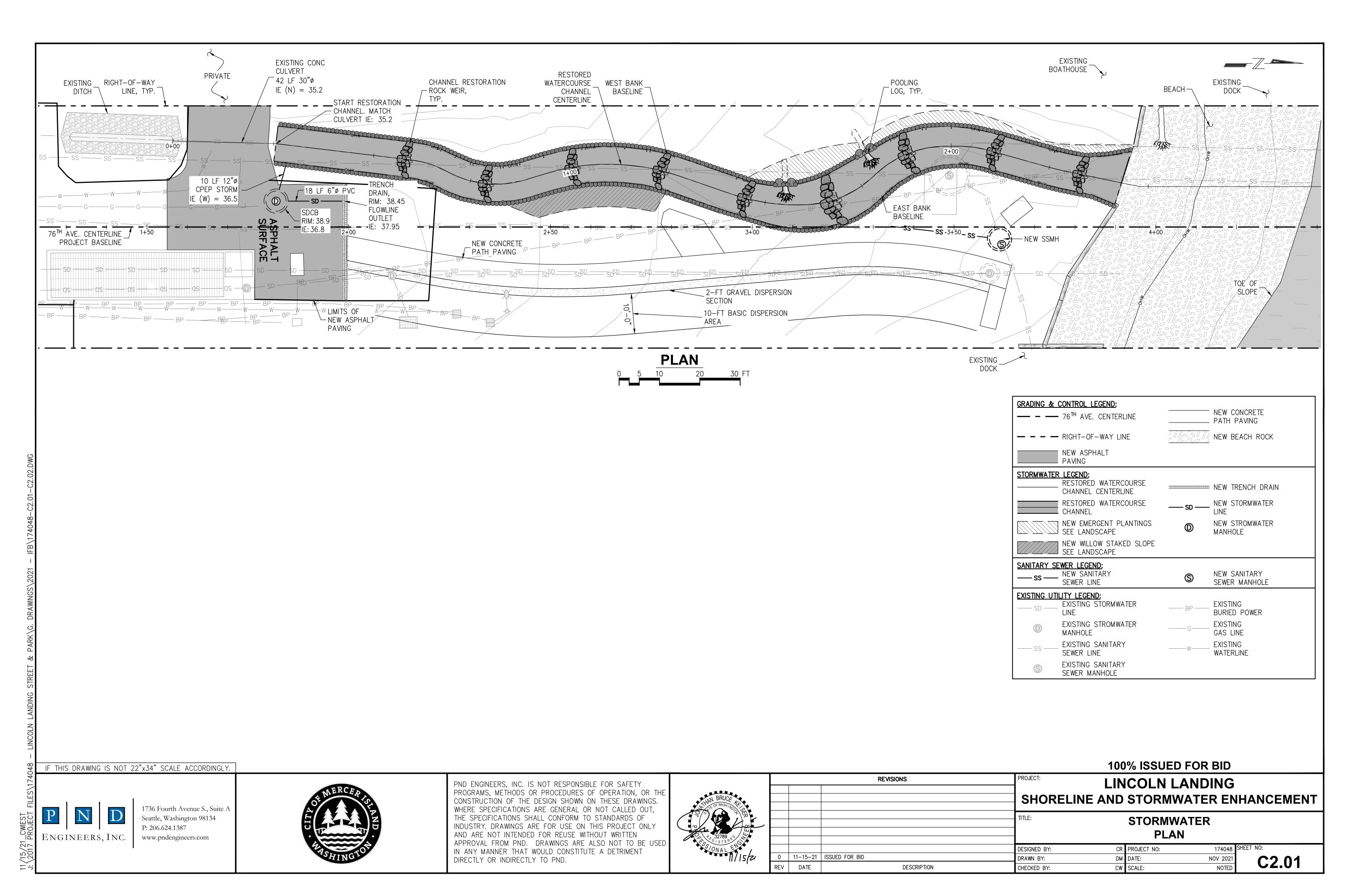


1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 www.pndengineers.com





					100	% ISSUED	FOR BID		
			REVISIONS	LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEM					
–				TITLE:		BEAC DETAII			
				DESIGNED BY:	CR	PROJECT NO:	174048 S	HEET NO:	
′	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C1.03	
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	G 1.03	



RESTORED TYPE 1 WATERCOURSE PROFILE

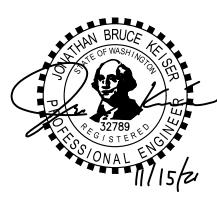
IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.



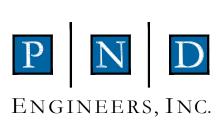
1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 ENGINEERS, INC. www.pndengineers.com



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT,
THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



					100	% ISSUED	FOR BID	
			REVISIONS	PROJECT: SHORELIN			ANDING VATER EN	HANCEMENT
\				TITLE: RE	STORE	TYPE 1 - PROFI	WATERCO LE	URSE
				DESIGNED BY:	CR	PROJECT NO:	174048	SHEET NO:
	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C2.02
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	GZ.UZ









IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.

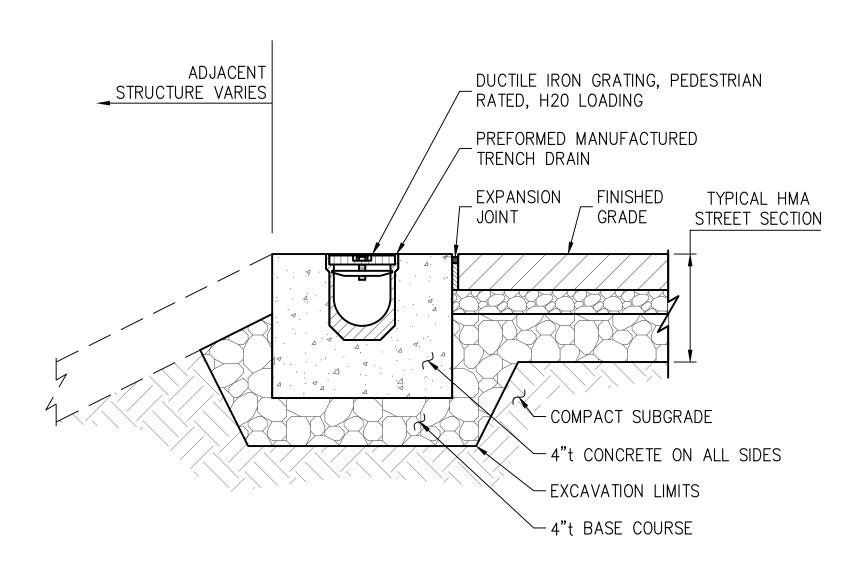
1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 www.pndengineers.com



_ GRAVEL BORROW STORM DRAIN BEDDING 6"] MIN. COMPACT SUBGRADE PLAN IE √MIÑ.

TYPICAL HMA STREET SECTION

TYPICAL STORM DRAIN PIPE TRENCH



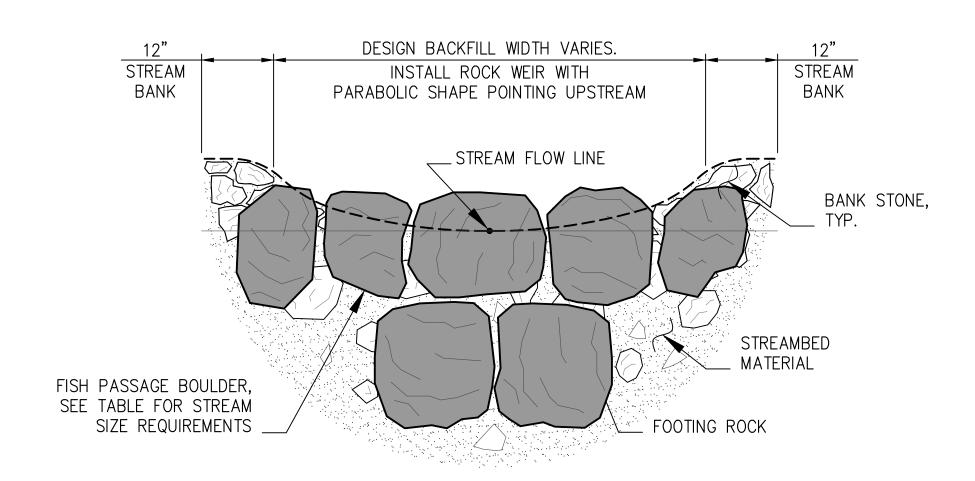
TRENCH DRAIN

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

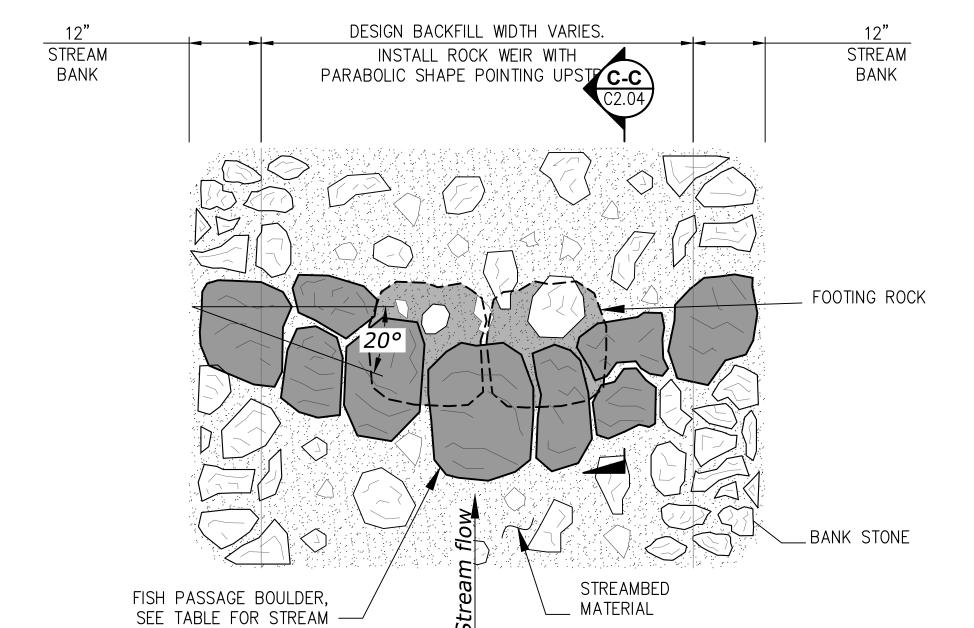


REVISIONS PROJECT: LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT TITLE: STORMWATER **DETAILS** 174048 SHEET NO: CR PROJECT NO: DESIGNED BY: 0 | 11-15-21 | ISSUED FOR BID C2.03 DRAWN BY: DM DATE: NOV 2021 REV DATE DESCRIPTION CW SCALE: CHECKED BY:

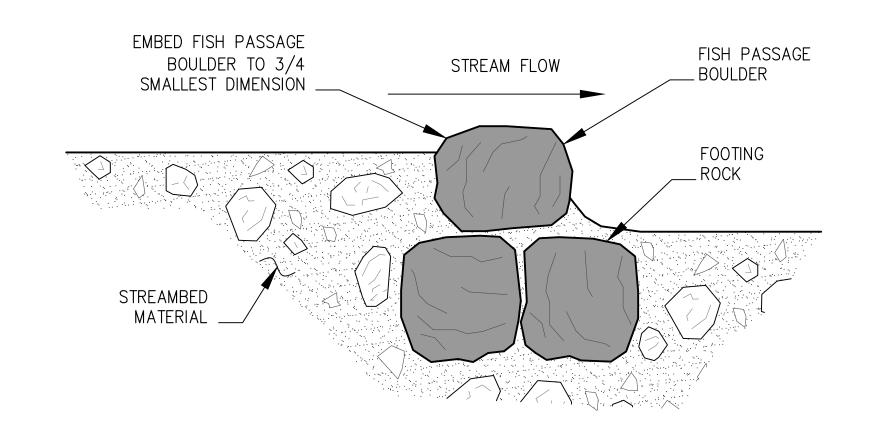
TYPICAL CHANNEL SECTION
(2.04)



C-C TYPICAL ROCK WEIR SECTION



TYPICAL CHANNEL RESTORATION ROCK WEIR PLAN



TYPICAL ROCK WEIR PROFILE

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.



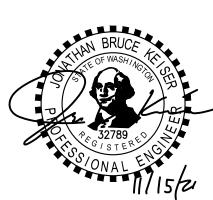


1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 ENGINEERS, INC. www.pndengineers.com



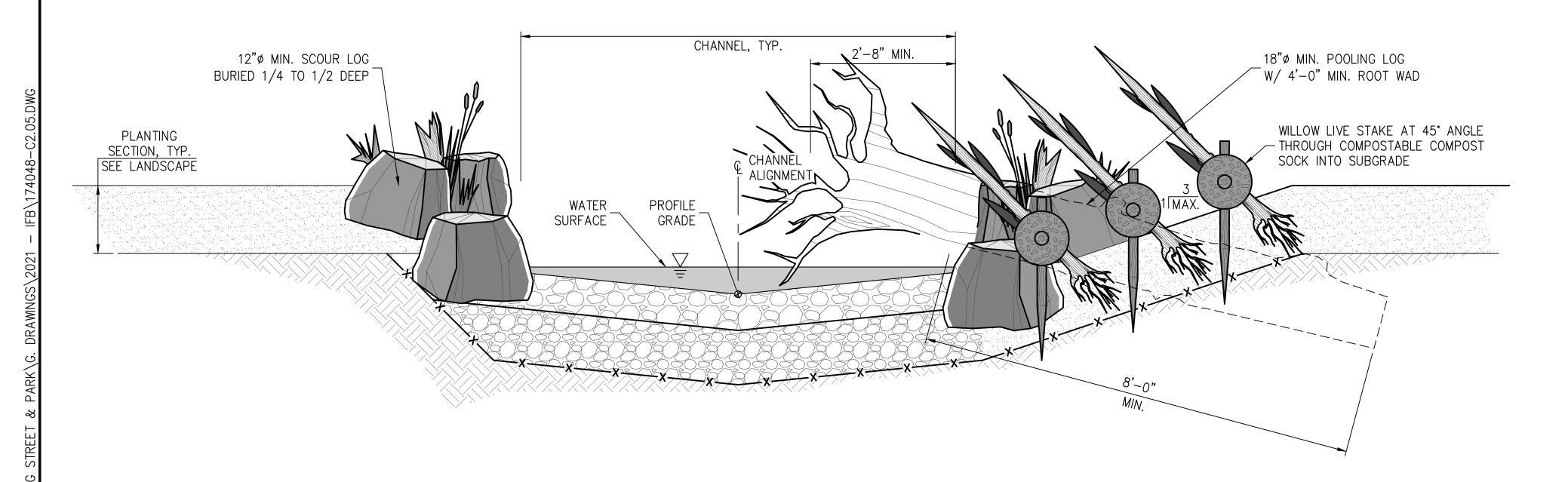
SIZE REQUIREMENTS

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



						100	% ISSUED	FOR BID	
			REVISIONS		SHORE			ANDING ATER ENI	HANCEMENT
_					TTLE:	RESTORE	D TYPE 1 V DETAI	WATERCOL LS	JRSE
				D	ESIGNED BY:	CR	PROJECT NO:	174048 SH	HEET NO:
•	0	11-15-21	ISSUED FOR BID	D	RAWN BY:	DM	DATE:	NOV 2021	C2.04
	REV	DATE	DESCRIF	PTION	HECKED BY:	CW	SCALE:	NOTED	62.04

TYPICAL POOLING LOG & SCOUR LOG PLAN



TYPICAL POOLING LOG & SCOUR LOG SECTION ©2.05

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.

100% ISSUED FOR BID



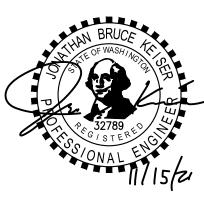




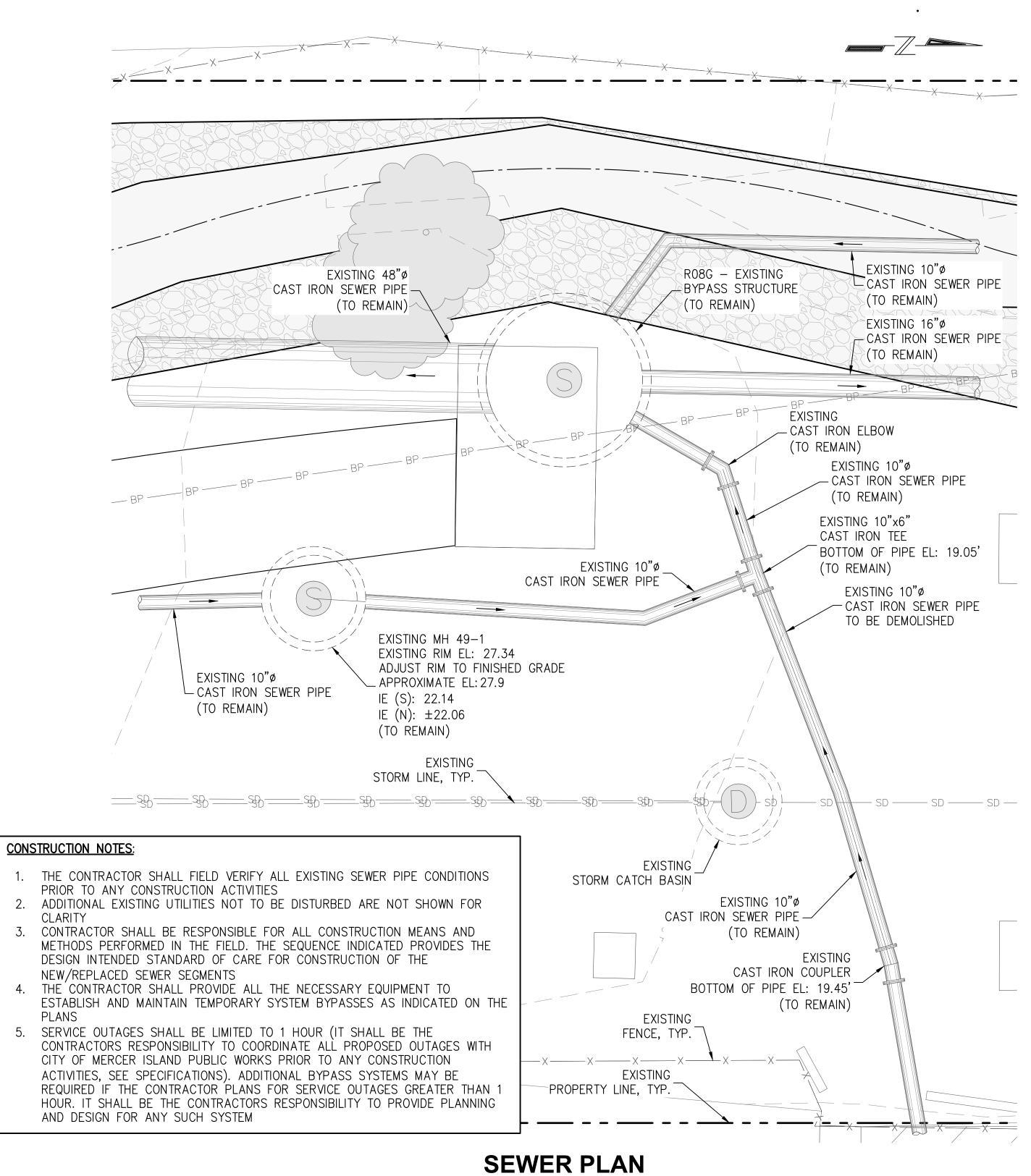


1736 Fourth Avenue S., Suite A Seattle, Washington 98134 P: 206.624.1387 www.pndengineers.com





			REVISIONS	SHORELIN	LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT					
_				TITLE: RE	ESTORE	D TYPE 1 \ DETAIL	LS			
				DESIGNED BY:	CR	PROJECT NO:	174048	SHEET NO:		
•	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C2.05		
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	<u> </u>		



EXISTING CONDITIONS





CLARITY





Seattle, Washington 98134 P: 206.624.1387 www.pndengineers.com



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



		REVISIONS	PROJECT:
			SHORELIN
			TITLE:
			DESIGNED BY:
0	11-15-21	ISSUED FOR BID	DRAWN BY:
REV	DATE	DESCRIPTION	CHECKED BY:

LINCOLN LANDING INE AND STORMWATER ENHANCEMENT

EXISTING 10"ø

(TO REMAIN)

EXISTING 16"ø

(TO REMAIN)

EXISTING

(TO REMAIN)

- CAST IRON ELBOW

EXISTING 10"ø

(TO REMAIN)

EXISTING 10"x6" - CAST IRON TEE

(TO REMAIN)

- CAST IRON SEWER PIPE

- CAST IRON SEWER PIPE

- CAST IRON SEWER PIPE

NEW 48" TYPE 1 SSMH

RIM: 25.06

- IE(S): 19.40

IE(W): 19.31

IE(E): 19.38

R08G - EXISTING

(TO REMAIN)

BYPASS STRUCTURE

SANITY SEWER RECONFIGURATION PLAN

174048 SHEET NO: CR PROJECT NO: DM DATE: NOV 2021

NOTED

C3.01

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.

1736 Fourth Avenue S., Suite A

PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED

SEQUENCE NOTES:

EXISTING 10"ø

(TO REMAIN)

- CAST IRON SEWER PIPE

1. INSTALL NEW 48" TYPE 1 MANHOLE OVER EXISTING 10" CAST IRON PIPE PER CITY OF MERCER ISLAND STANDARD S-5 AND S-15.

EXISTING 48"ø

(TO REMAIN)

EXISTING MH 49-1

IE (S): 22.14

(TO REMAIN)

IE (N): ±22.06

EXISTING RIM EL: 27.34

APPROXIMATE EL: 27.9

ADJUST RIM TO FINISHED GRADE

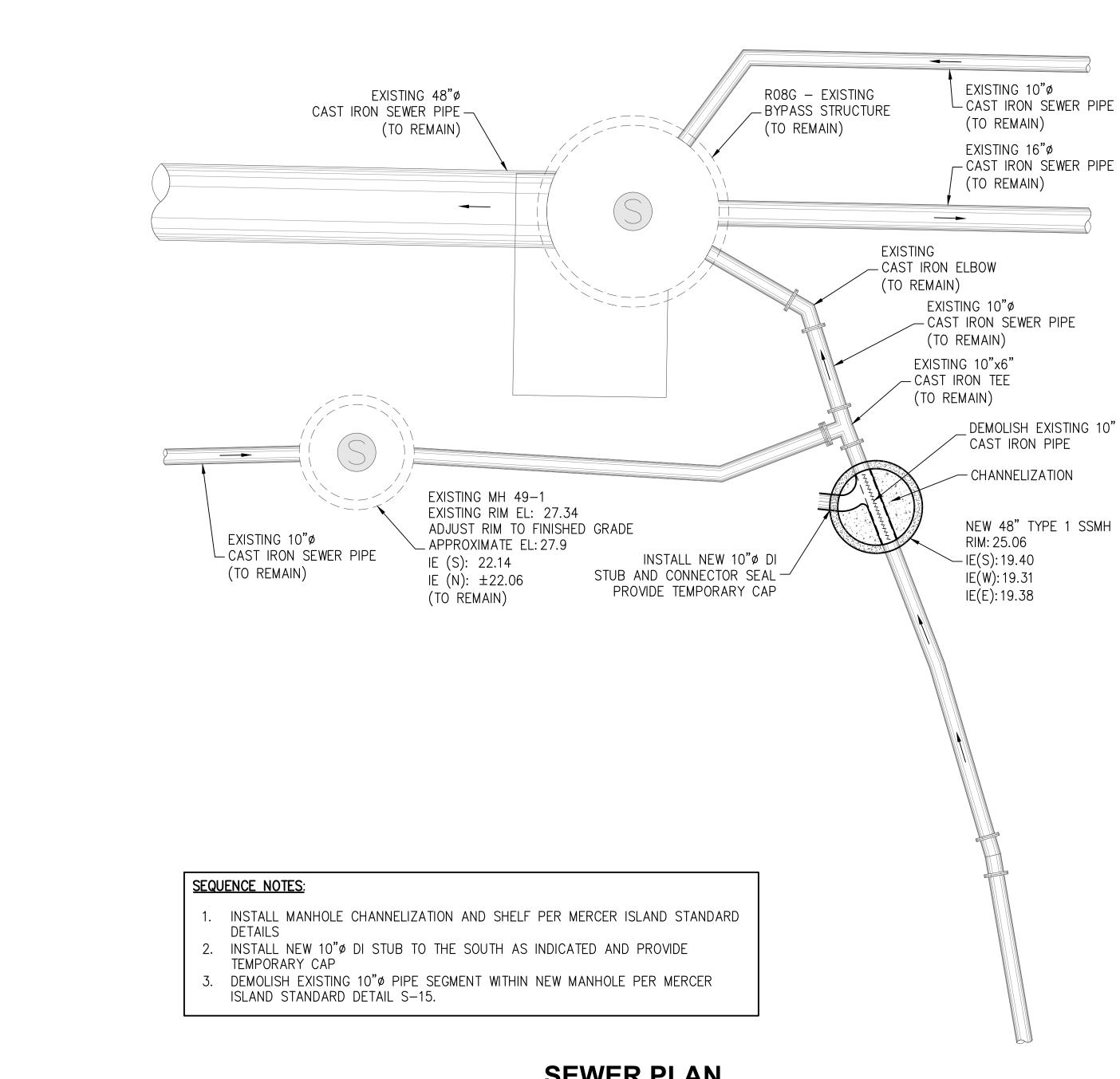
CAST IRON SEWER PIPE -

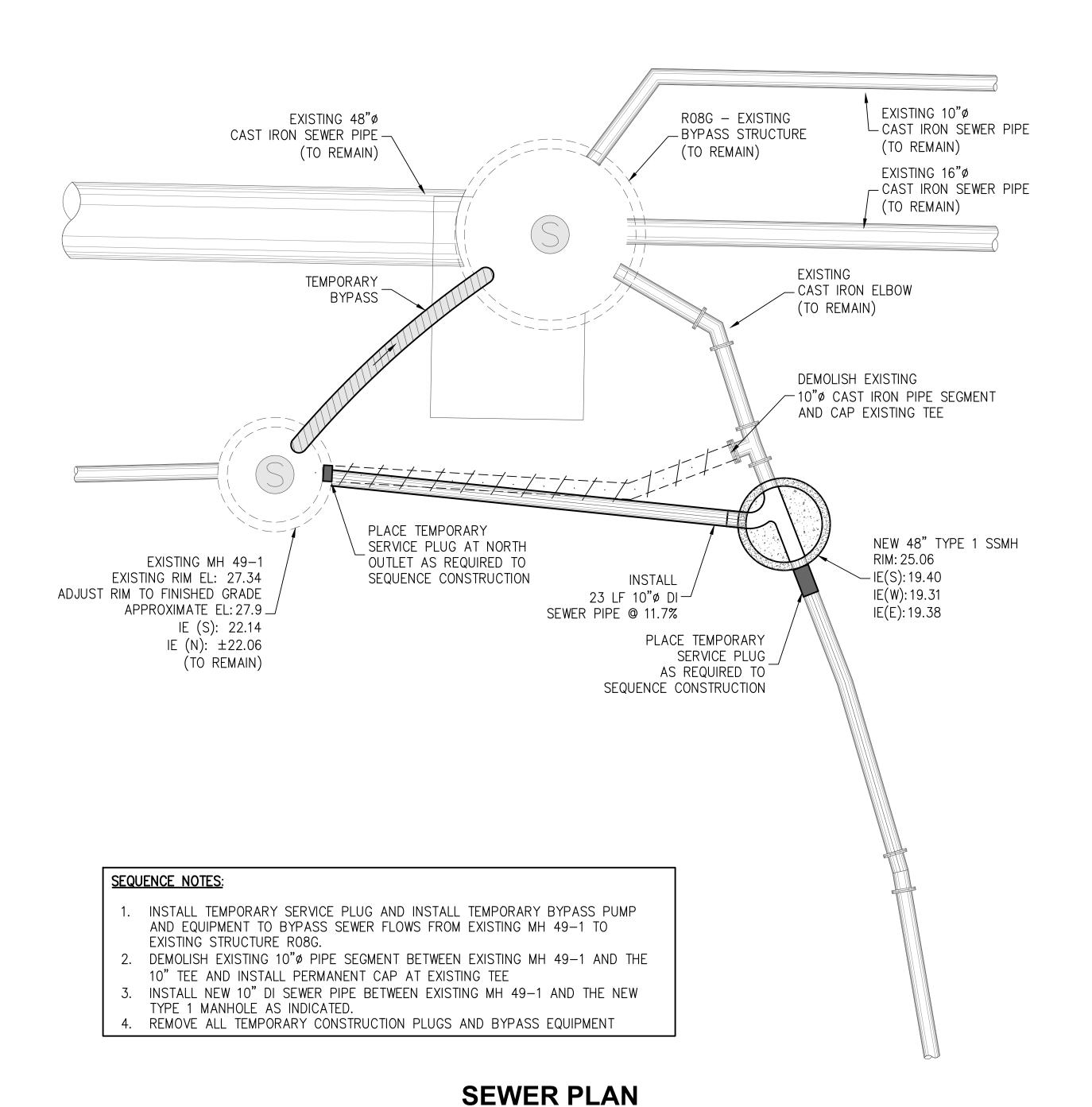
SEWER PLAN

CONSTRUCTION SEQUENCE STEP 1 — DEMOLITION

100% ISSUED FOR BID

CW | SCALE:





CONSTRUCTION SEQUENCE STEP 4 — DEMOLITION & INSTALL

SEWER PLAN

CONSTRUCTION SEQUENCE STEP 3 — DEMOLITION & INSTALL

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.



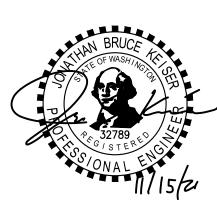




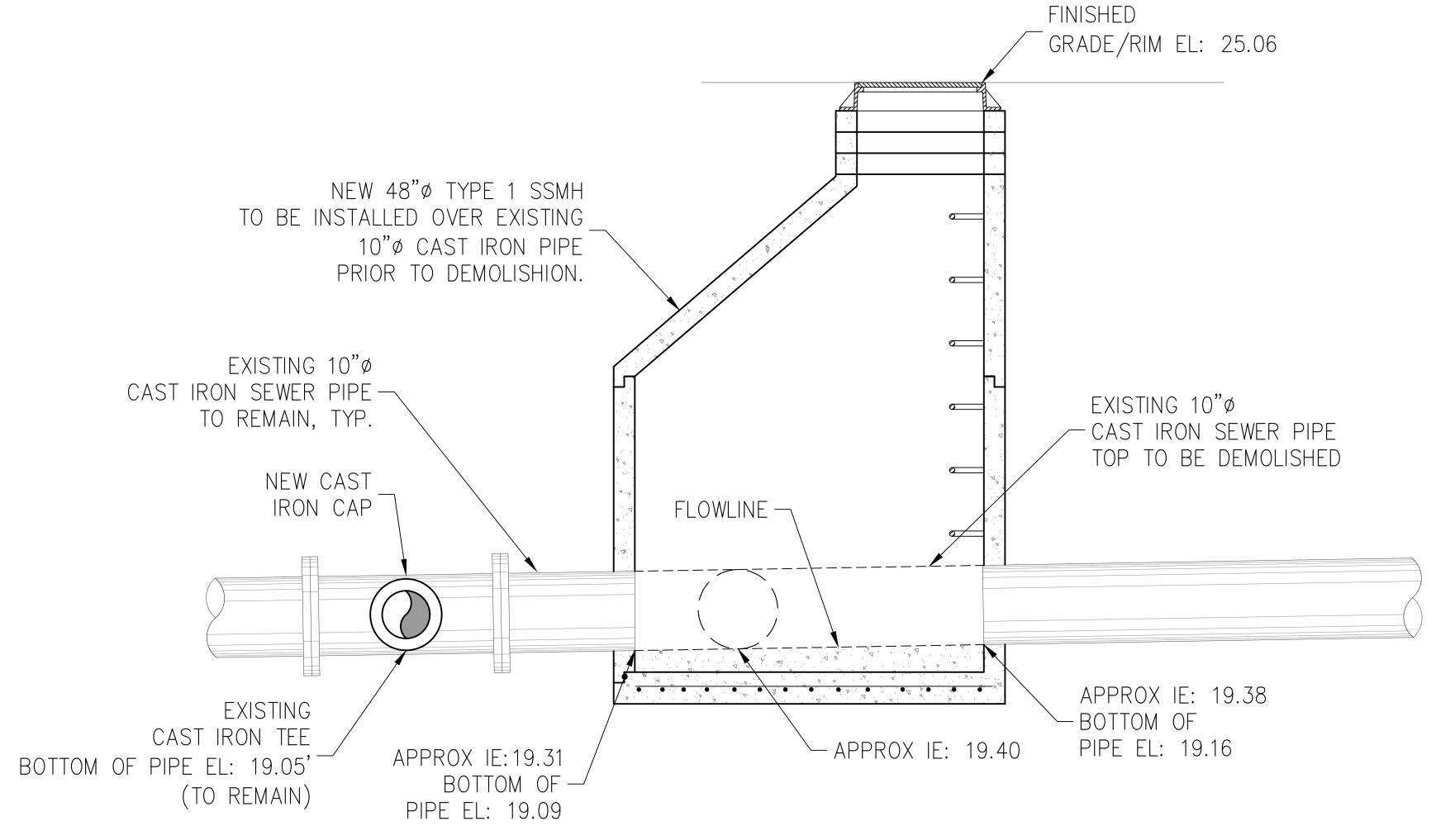




PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



100% ISSUED FOR BID PROJECT: **REVISIONS** LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT TITLE: **SANITY SEWER RECONFIGURATION PLAN** 174048 SHEET NO: CR PROJECT NO: DESIGNED BY: 0 | 11–15–21 | ISSUED FOR BID C3.02 DRAWN BY: DM DATE: NOV 2021 REV DATE DESCRIPTION CHECKED BY:



NEW 48" TYPE 1 MANHOLE DETAIL

NOT TO SCALE

IF THIS DRAWING IS NOT 22"x34" SCALE ACCORDINGLY.

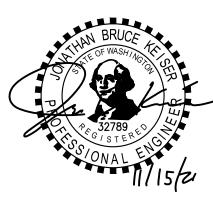








PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



			REVISIONS	PROJECT:	PROJECT: LINCOLN LANDING					
				SHORELIN	E AND	STORMW	ATER EN	IHANCEMENT		
				TITLE:		SANITY SE		LS		
				DESIGNED BY:	CR	PROJECT NO:	174048	SHEET NO:		
/	0	11-15-21	ISSUED FOR BID	DRAWN BY:	DM	DATE:	NOV 2021	C3.03		
	REV	DATE	DESCRIPTION	CHECKED BY:	CW	SCALE:	NOTED	C3.03		

SIZE/REMARKS

QTY SCIENTIFIC/COMMON NAME

SHRUBS

SIZE/REMARKS

6'-8' HT; B&B/FABRIC BAG; FULL & WELL BRANCHED; MULTI-TRUNKEÓ WITH 3 MAÍN TRUNKS

SYMMETRICAL, FULL & WELL BRANCHED

6' HT; B&B/FABRIC BAG; STRAIGHT TRUNK, NOT SHEARED;

4'-5' HT; B&B/FABRIC BAG; STRAIGHT TRUNK, NOT

SHEARED; SYMMETRICAL, FULL & WELL BRANCHED

18 **O**

65

15

25

45

SYM

 \triangle

Cornus sericea/ RED OSIER DOGWOOD

Gaultheria shallon/ SALAL

1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED

2 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED, 36" OC TRIANGULAR SPACING; INTERMIX SPECIES. PROVIDE 36" OFFSET

1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED

1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED

65 Mahonia nervosa/ DWARF MAHONIA Rosa gymnocarpa/ BALDHIP ROSE FROM NEW AND EXISTING TREES 65

1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED Philadelphus lewisii/ MOCK ORANGE

82 1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED Polystichum munitum/ SWORD FERN

 \odot Ribes sanguineum/ FLOWERING RED CURRANT

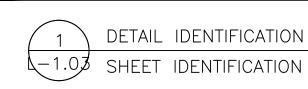
33 **Ø** 1 GAL CONT; FULL, WELL BRANCHED & WELL ROOTED Vaccinium ovatum/

LIVESTAKE PLANTING

BULBS

Cornus sericea/ RED TWIG DOGWOOD LIVESTAKE, 24" OC TRIANGULAR SPACING

PLANTING LEGEND





6 -1.0*3*

SALVAGED CONIFER TREE TRUNK, 8'-12' LENGTH, 12" MIN DIA TO 30" MAX DIA TRUNK, SEE SPECS

BOULDER, SEE CIVIL DWGS

SCIENTIFIC/COMMON NAME

<u>TREES</u>

Acer circinatum/

Cedrus atlanticus/

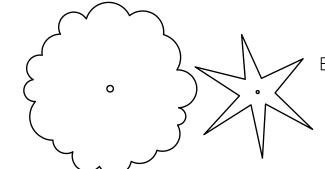
Thuja plicata var. Excelsa/

EXCELSA WESTERN RED CEDAR

ATLAS CEDAR

VINE MAPLE

EX FENCE TO REMAIN, SEE CIVIL DWGS



EX TREES TO REMAIN, SEE CIVIL DWGS

SITE FURNISHINGS LEGEND



PLANTING NOTES

EMERGENT PLANTING 70

70

730

Carex obnupta/ SLOUGH SEDGE Iris tenax/ TOUGH LEAF IRIS Sagitaria latifolia/ BROADLEAF ARROWHEAD

Symphoricarpos albus/ SNOWBERRY

EVERGREEN HUCKLEBERRY

1 GAL CONT; FULL AND WELL ROOTED, 18" OC TRIANGULAR SPACING 1 GAL CONT; FULL AND WELL ROOTED, 18" OC TRIANGULAR SPACING

TUBER, 18" OC TRIANGULAR SPACING INTERMIX THE SEDGE, IRIS, AND ARROWHEAD

Galanthus nivalis/ COMMON SNOWDROP BULB, TOP GRADE; APPROX 12" OC TRIANGULAR SPACING BETWEEN BULBS, ENSURE AN OFFSET 36" FROM PAVED SURFACES AND EX TREES

3,925 SF SOD LAWN

SEE SPECS 3" DEPTH WOOD CHIP MULCH ONLY

PLANTING ABBREVIATIONS

NTAINER MAXBIC FEET MIN METER OC AWINGS PREP QTY REP UIVALENT SCH STING SPEC LON. SQ GHT SYM IDE DIAMETER TYP EAR FEET W/ NUFACTURER'S

- 1. ANY DISCREPANCIES WITH THE DWGS AND/OR SPECS & SITE CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF OWNERS REP PRIOR TO PROCEEDING WITH CONSTRUCTION. ON CENTER
 - 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
 - 3. OWNERS REP MUST INSPECT PLANT MATERIALS AND STAKING LOCATIONS PRIOR TO INSTALLATION TO ASSURE THE APPROPRIATE PLANT CHARACTERISTICS ARE MET.
 - 4. INSTALL GROUNDCOVERS IN A TRIANGULAR PATTERN AT SPACING SHOWN IN THE PLANT SCHEDULE. WHERE GROUNDCOVER ABUTS CURBING, WALLS, OR WALKS, MIN PLANTING
- DISTANCE MUST BE NINE (9) INCHES FROM SAME UNLESS OTHERWISE NOTED. INSTALL GROUNDCOVERS CONTINUOUS IN BETWEEN SHRUB PLANTINGS.
- 5. LANDSCAPE CONTRACTOR MUST BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
- 6. ALL PLANTS MUST RECEIVE AN ADEQUATE SUPPLY OF WATER.
- 7. PLANTING DRAWING IS BASED UPON BASE DRAWINGS DATED 06/2/2021. PREPARED BY: PND ENGINEERS, INC

ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY THE FOLLOWING MIN SETBACKS FOR CENTERLINE OF TREE TRUNKS TO EDGE OF DRIVEWAY, AND TO CENTER OF ALL OTHERS SHOWN MUST APPLY:

- A. STREET LIGHTS 10'
- B. DRIVEWAYS 10'
- C. UNDERGROUND SEWER & WATER LINES 5'
- D. UNDERGROUND GAS LINES 3'
- E. UTILITY/POWER POLES 5'
- F. FACE OF CURB 3'

8. TREE LOCATIONS SHOWN ON PLANTING PLANS

100% ISSUED FOR BID PROJECT: **REVISIONS** LINCOLN LANDING







MAXIMUM

MINIMUM

QUANTITY

SCHEDULE

SQUARE

SYMBOL

TYPICAL

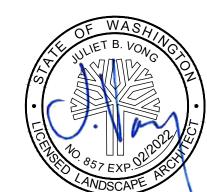
WITH

PREPARATION

REPRESENTATIVE

SPECIFICATION

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



REV	DATE	DESCRIPTION

DM DATE: DRAWN BY: DK NOV 2021 L-1.01 CW SCALE: CHECKED BY: DK

REV DATE

DESCRIPTION

174048 SHEET NO:

L-1.02

CR PROJECT NO:

DM DATE:
CW SCALE:

DESIGNED BY: MW

DRAWN BY: DK

CHECKED BY: DK

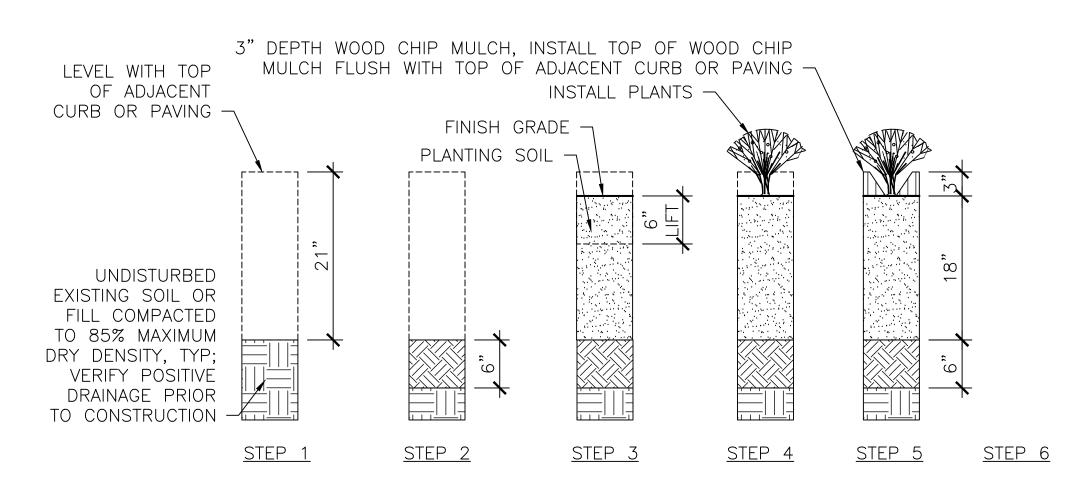
AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN

IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT

DIRECTLY OR INDIRECTLY TO PND.

APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED

LANDSCAPE ARCHITECTURE
2101 4TH AVENUE, SUITE 1800 206.682.3051 phone
SEATTLE, WA 98121 206.682.3245 fax



EXCAVATE EXISTING SOIL TO 21" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE MATERIAL. PROVIDE PERCOLATION TEST PER SPECS, PRIOR TO PROCEEDING TO STEP 2.

SCARIFY SUBGRADE TO A MINIMUM 6" DEPTH. OWNER'S REP SHALL REVIEW & APPROVE WORK PRIOR TO PROCEEDING TO STEP 3.

STEP 3 INSTALL MINIMUM 18" DEPTH OF PLANTING SOIL IN 6" LIFTS. MULCH.

WATER SETTLE/COMPACT EACH LIFT PRIOR TO INSTALLING THE

NEXT LIFT. REVIEW FINISH GRADE WITH OWNER'S REP PRIOR TO PLANTING.

INSTALL PLANTS.

STEP 5 INSTALL 3" DEPTH WOOD CHIP

1. ALL DIMENSIONS INDICATE COMPACTED DEPTHS. 2. SEE SPECIFICATIONS FOR SOIL PREP W/IN TREE PROTECTION FENCING AREAS

SECTION

TOP OF ROOT CROWN TO BE FLUSH WITH FINISH GRADE -3" DEPTH WOOD CHIP MULCH; KEEP MULCH LAYER AWAY FROM FOLIAGE -3" HEIGHT WATER RING - FINISH GRADE PRIOR TO "PLACING WOOD CHIP MULCH - LIGHTLY SCARIFY ROOTBALL TO LOOSEN ROOTS PRIOR TO PLANTING -1:1 SLOPE ON SIDES OF PLANTING HOLE BACKFILL WITH 2/3 PLANTING SOIL & 1/3 EX SOIL, THOROUGHLY WATER SETTLE UNDISTURBED EX SOIL OR EX SOIL COMPACTED TO 85% MAX DRY DENSITY; VERIFY POSITIVE DRAINAGE PRIOR TO CONSTRUCTION 1. INSTALL 3" HEIGHT PLANTING HOLE TO BE 6" LARGER THAN DIA OF ROOTBALL FOR WATER RING 6" GROUNDCOVER, 12" LARGER THAN BEYOND EXTENTS DIA OF ROOTBALL FOR SHRUBS OF ROOTBALL

GROUNDCOVER & SHRUB PLANTING NOT TO SCALE

- ENSURE THAT BUDS

ARE POINTING IN

UPWARD POSITION

- FINISH GRADE

INSTALL LIVE

STAKE 50% OF

LENGTH BELOW

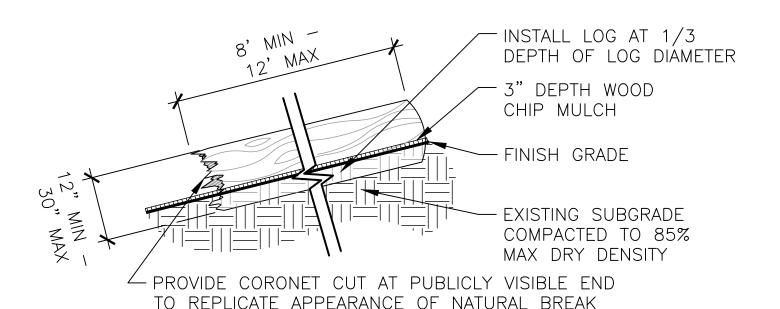
FINISH GRADE

─ 3" DEPTH WOOD

CHIP MULCH

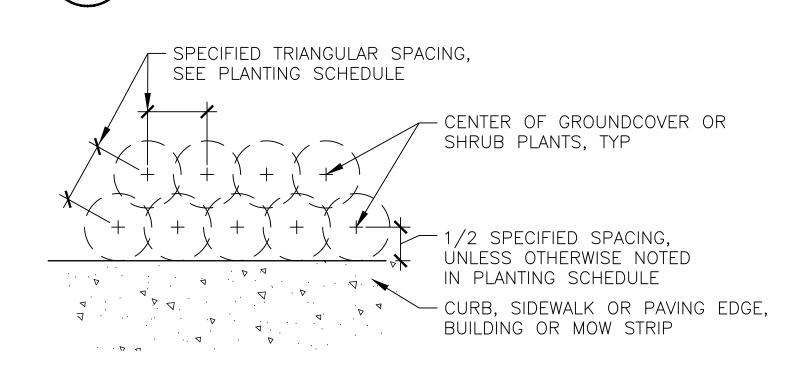
TOP OF ROOT CROWN 3" DEPTH WOOD -TO BE FLUSH WITH CHIP MULCH, KEEP FINISH GRADE MULCH LAYER AWAY — 3" HEIGHT WATER RING FROM FOLIAGE LIGHTLY SCARIFY ROOTBALL TO LOOSEN ROOTS PRIOR TO PLANTING FINISH GRADE PRIOR TO PLACING WOOD CHIP MULCH UNDISTURBED EX SOIL OR EX SOIL --- 2.5:1 MAX UPHILL & DOWNHILL SLOPES COMPACTED TO 85% MAX DRY DENSITY; VERIFY POSITIVE BACKFILL WITH 2/3 PLANTING DRAINAGE PRIOR TO SOIL & 1/3 EX SOIL, CONSTRUCTION THOROUGHLY WATER SETTLE SLOPE SUBGRADE TO PROVIDE PLANTING HOLE TO BE 6" LARGER POSITIVE WATER DRAINAGE THAN DIA OF ROOTBALL FOR GROUNDCOVER, 12" LARGER THAN DIA OF ROOTBALL FOR SHRUBS 1. ADD 3" HIGH WATER RING 6" BEYOND EXTENTS OF ROOTBALL.

GROUNDCOVER & SHRUB PLANTING ON A SLOPE NOT TO SCALE



SECTION





100% ISSUED FOR BID

GROUNDCOVER & SHRUB PLANTING LAYOUT

NOT TO SCALE

1. PREPOKE HOLE IN SOIL

PROVIDE CLEAN AND -

STRAIGHT CUT AT THE

ABOVE THE BUDS

TOP END OF LIVE STAKE,

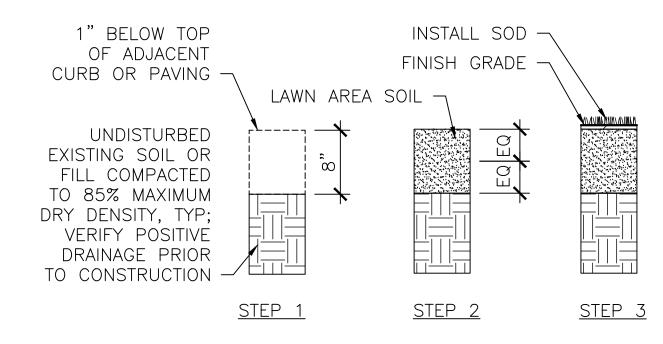
2. GENTLY PUSH CUTTING INTO HOLE. FIRM

POCKETS AND TO SETTLE SOIL.

SOIL AROUND LIVESTAKE TO AVOID AIR

SOIL PREPARATION IN SHRUB & GROUNDCOVER AREAS

NOT TO SCALE



STEP 1 EXCAVATE EXISTING SOIL TO 9" INSTALL MINIMUM 8" DEPTH OF DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE MATERIAL. INSTALLING THE NEXT LIFT. PROVIDE PERCOLATION TEST,

LAWN AREA SOIL IN 2 EQ LIFTS. WATER SETTLE/COMPACT EACH LIFT PRIOR TO REVIEW FINISH GRADE WITH

OWNER'S REP PRIOR TO SODDING.

SECTION

INSTALL SOD.

NOTES:

1. ALL DIMENSIONS INDICATE

COMPACTED DEPTHS. 2. SEE SPECIFICATIONS FOR SOIL PREP W/IN TREE

PROTECTION FENCING AREAS.

SOIL PREPARATION IN SOD LAWN AREAS

NOT TO SCALE

PER SPECS, PRIOR TO

PROCEEDING TO STEP 2.

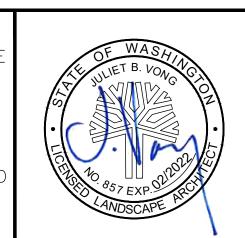


LIVE STAKE PLANTING **NOT TO SCALE**

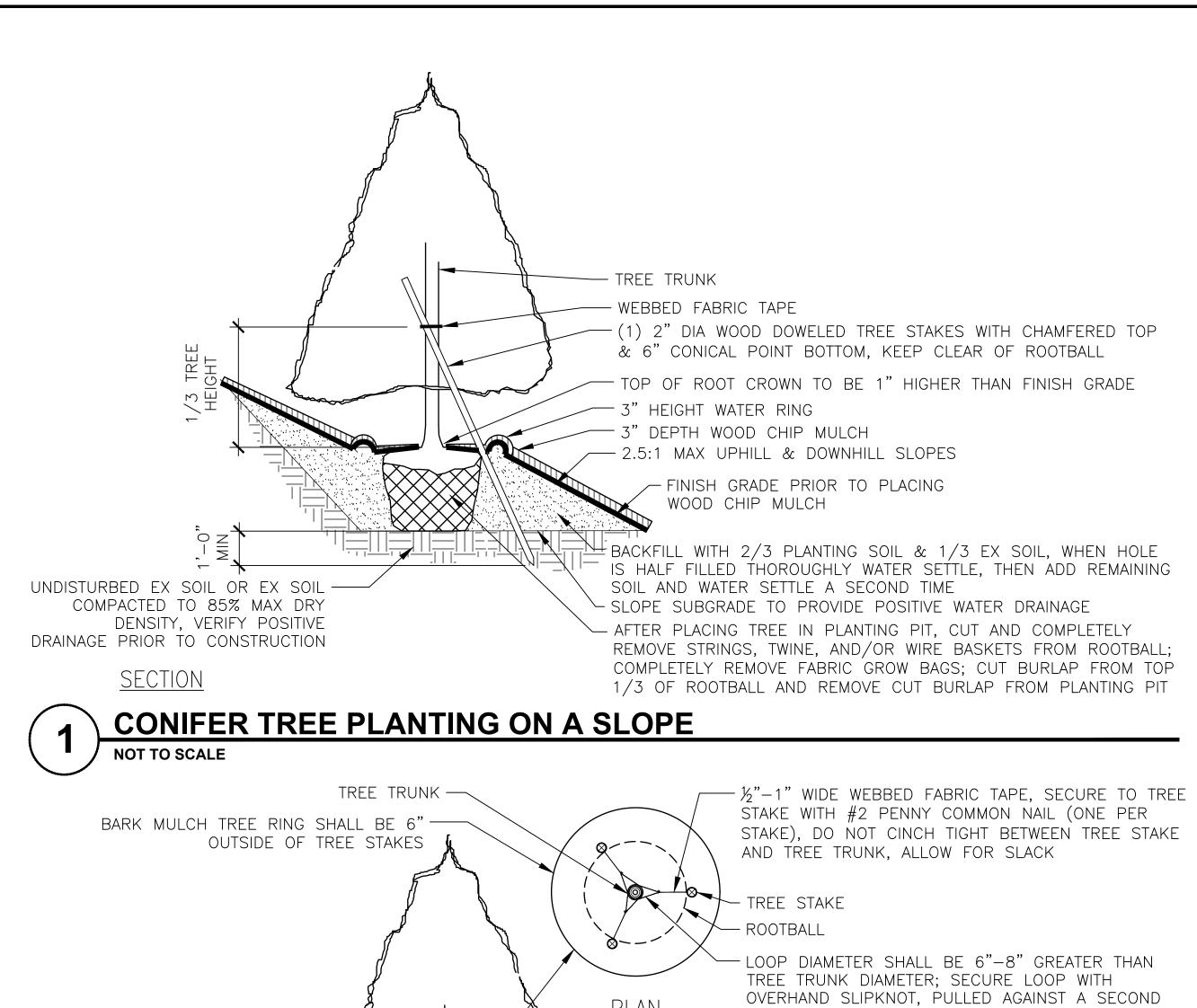
PLANTING SOIL

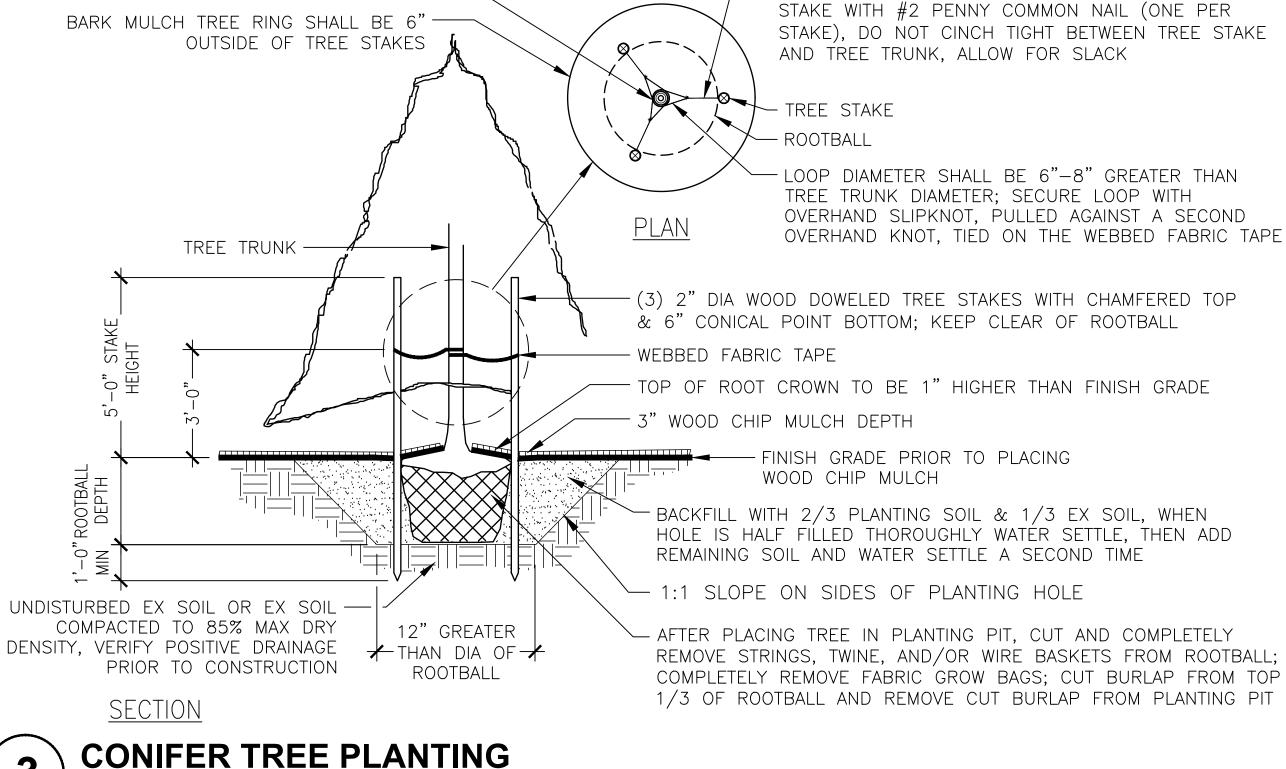
HBB LANDSCAPE ARCHITECTURE 2101 4TH AVENUE, SUITE 1800 SEATTLE, WA 98121 206.682.3051 phone 206.682.3245 fax

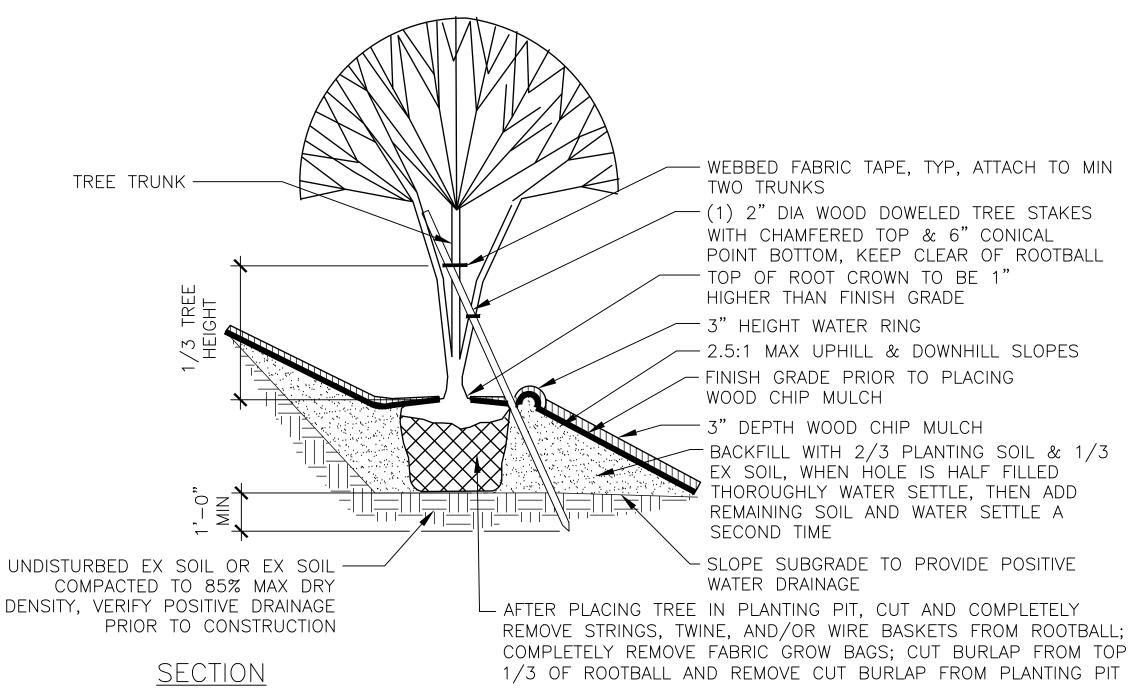




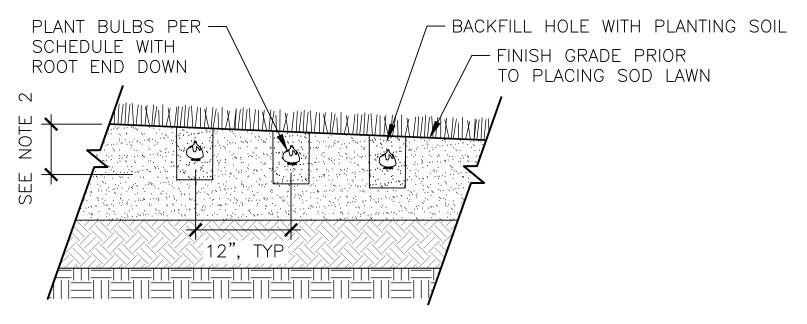
REVISIONS			PROJECT: SHOR			N LANDING RMWATER EN	
			TITLE: PL	ANTING DE	TAIL	S	
			DESIGNED BY:	MW CF	R PROJECT	NO: 174048	SHEET NO:
					A DATE:	NOV 2021	L-1.03
REV	DATE	DESCRIPTION	CHECKED BY:	DK CV	V SCALE:	NOTED	L 1.00







MULTI-TRUNK DECIDUOUS TREE PLANTING ON A SLOPE **NOT TO SCALE**



<u>SECTION</u>

- 1. VERIFY LAYOUT OF BULBS WITH OWNERS REP PRIOR TO PLANTING.
- 2. PLANT BULBS IN LAWN AREAS PER PLANS, VERIFY LAYOUT IN FIELD WITH OWNERS REP.
- 3. DIG HOLES TO A 10" DEPTH AT TWICE THE DIAMETER OF THE BULB. BACKFILL WITH PLANTING SOIL.
- 4. PLANT BULBS WITH THE TOP (POINTED END) UP, AND LIGHTLY COMPACT.
- 5. ENSURE 2"-3" DEPTH PLANTING SOIL COVER OVER BULBS.
- 6. OFFSET BULBS 3'-0" FROM TREE TRUNKS AND PAVED SURFACES. AVOID TREE ROOTS. PLANT BULBS SEPTEMBER-NOVEMBER.



100% ISSUED FOR BID



NOT TO SCALE



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



		REVISIONS	PROJECT: SHOF	RELINE		COLN LA		IHANCEMENT
			TITLE: PL	ANTIN	IG DE	TAILS		
			DESIGNED BY:	MW	CR	PROJECT NO:	174048	SHEET NO:
			DRAWN BY:	DK	DM	DATE:	NOV 2021	L-1.04
REV	DATE	DESCRIPTION	CHECKED BY:	DK	CW	SCALE:	NOTED	L-1.0 1

IRRIGATION SCHEDULE

POP-UP ROTATOR SPRAY HEADS* WITH HUNTER MP-ROTATOR NOZZLES



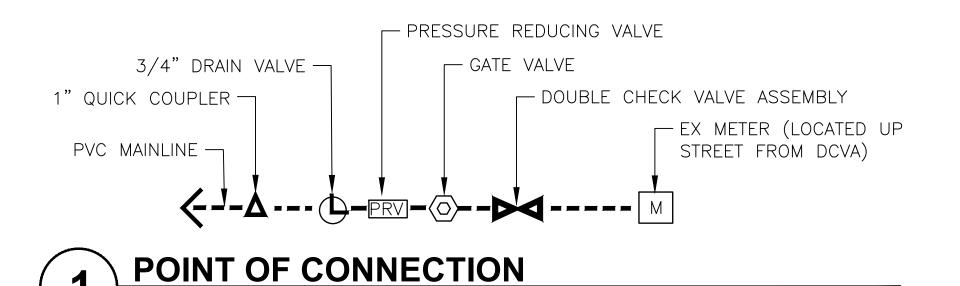
SYMBOL	DESCRIPTION	RADIUS	PRESSURE	GPM + 10%
4	HUNTER MP800 PROS-12-PRS30	8'	30	0.19
4	HUNTER MP800 PROS-12-PRS30	8'	30	0.37
•	HUNTER MP800 PROS-12-PRS30	8'	30	0.73
₽	HUNTER MP815 PROS-12-PRS30	14'	30	0.46
	HUNTER MP815 PROS-12-PRS30	13'	30	0.83
	HUNTER MPRCS515 PROS-12-PRS30	4'X28'	30	0.42
	HUNTER MPRCS515 PROS-12-PRS30	4'X14'	30	0.21
	HUNTER MPLCS515 PROS-12-PRS30	4'X14'	30	0.21

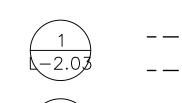
* SPRAY HEADS IN LAWN AREAS TO RECEIVE 4" POP-UP SPRAY BODIES

IRRIGATION ABBREVIATIONS

#/NO %	NUMBER PERCENT	DCVA	DOUBLE CHECK VALVE ASSEMBLY
& &	AND	DIA	DIAMETER
∞ @	AT	DWGS	DRAWINGS
ABBV	ABBREVIATIONS	ENG	ENGINEER
BLDG	BUILDING	EX	EXISTING
Ę.	CENTER LINE	GAL	GALLON
CF	CUBIC FEET	GPH	GALLONS PER HOUR
CLR	CLEAR	GPM	GALLONS PER MINUTE
CONC	CONCRETE	IRR	IRRIGATION
CONST	CONSTRUCTION	LA	LANDSCAPE ARCHITECT

MAXMAXIMUM MECH MECHANICAL MFRS MANUFACTURERS MINIMUM ON CENTER OWNER'S REPRESENTATIVE POINT OF CONNECTION POLYVINYL CHLORIDE POUNDS PER SQUARE INCH SCHEDULE SPECIFICATION TYPICAL





PIPE SLEEVES (SCH 40 PVC) WITH SIZE



LATERAL LINE (SCH 40 PVC) WITH SIZE

1 1/2" MAINLINE (SCH 40 PVC)



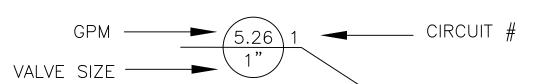
-2.04

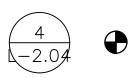
3/4" MANUAL DRAIN VALVE. CHAMPION 200RS-075 (3/4") DRAIN VALVE; PROVIDE OWNER WITH TWO (2) VALVE KEYS



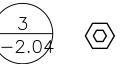
QUICK COUPLING VALVE- RAINBIRD 44LRC WITH 44K COUPLER KEY SH-1 HOSE SWIVEL & 2049 LID KEY; PROVIDE OWNER WITH TWO (2) SETS OF THE FOLLOWING: COUPLER KEYS HOSE SWIVELS

LID KEYS

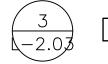




HUNTER AUTOMATIC CONTROL VALVES: 1" PGV-101 VALVE W/ 458200 DC LATCHING SOLENOID AND PVC BALL VALVE



3/4" HAMMOND GATE VALVE MODEL 667 OR APPROVED EQUAL



С

HUNTER NODE-400 BATTERY OPERATED CONTROLLER





1" WILKINS 950XLT DOUBLE CHECK VALVE ASSEMBLY: MOVE AND PROPERLY DISPOSE OF EX DOUBLE CHECK VALVE ASSEMBLY AND VALVE





EXISTING IRRIGATION WATER METER- SEE CIVIL DRAWINGS

POINT OF CONNECTION



1" WILKINS 600XL-HLR PRESSURE REDUCING VALVE SET TO 80 PSI MAX

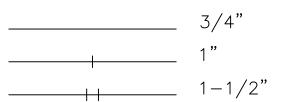
IRRIGATION NOTES

- 1. THERE IS A LOSS OF PRESSURE IN EACH PIPE FITTING DUE TO FRICTION & ADDITIONAL HEADS MAY BE NEEDED DUE TO FIELD CONDITIONS. THESE LOSSES ARE COMPENSATED FOR BY ADDING TEN (10) PERCENT TO THE MFRS RATED GPM FOR EACH NOZZLE.
- 2. LOCATE QUICK COUPLING VALVE & AUTOMATIC CONTROL VALVES IN SHRUB/ GROUNDCOVER AREAS AT POINT OF EASY ACCESS. OWNERS REP TO REVIEW & APPROVE FINAL LOCATION OF ALL QUICK COUPLERS & AUTOMATIC CONTROL VALVES PRIOR TO INSTALLATION.
- 3. HEAD LOCATION MUST BE ADJUSTED IN THE FIELD TO COMPLY WITH EX SITE CONDITIONS, PLANT MATERIALS & ANY OTHER ITEMS DEEMED APPROPRIATE BY THE OWNERS REP.
- 4. CONTRACTOR SHALL COORDINATE IRRIGATION EQUIPMENT WITH PLANT MATERIAL, TO AVOID CONFLICTS, SPRAY BLOCKAGE & ANY OTHER ITEMS DEEMED APPROPRIATE BY THE OWNERS REP.
- 5. EX STATIC PSI AT IRRIGATION METER IS >80 PSI, IN PRESSURE ZONE FREEWAY 282. INFORMATION FROM 2015 MERCER ISLAND WATER PLAN. PRIOR TO INSTALLATION OF IRRIGATION SYSTEM, CONTRACTOR SHALL FIELD VERIFY EX PSI AT POINT OF CONNECTION. NOTIFY OWNERS REP OF ANY DISCREPANCIES BETWEEN THE DESIGN PSI & EX PSI PRIOR TO PROCEEDING WITH WORK
- 6. SYSTEM DESIGNED TO PROVIDE 30 PSI @ ROTATOR SPRAY HEADS.
- 7. IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION SLEEVING LOCATIONS WITH GENERAL CONTRACTOR.
- DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO PLANT MATERIALS, UTILITIES OR EX CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 9. ALL IRRIGATION SLEEVING TO BE STAKED IN THE FIELD & LOCATED ON DIMENSIONED "AS-BUILT" DRAWING TO ALLOW FUTURE LOCATION & USE.
- 10. AIR BLOW IRRIGATION SYSTEM THROUGH QUICK COUPLERS TO WINTERIZE IRRIGATION SYSTEM.
- 11. WHERE PIPE SIZES ARE NOT SHOWN ON THE PLAN, PIPE SHALL BE SIZED TO THE NEXT LARGEST PIPE SIZE SHOWN UPSTREAM ON THE PLAN.
- 12. WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND-DIGGING & WITHOUT INJURY TO THE ROOTS.
- 13. CONTRACTOR SHALL TUNE EACH IRRIGATION NOZZLE UTILIZING THE BUILT IN RADIUS AND ARC ADJUSTABILITY. TUNING SHALL MINIMIZE OVERSPRAY ONTO PAVED SURFACES, STREAM, BEACH, FENCES, SEATING, & TABLES.

LEGEND

X DETAIL IDENTIFICATION XXX SHEET IDENTIFICATION

PIPE SIZE LEGEND



100% ISSUED FOR BID

PROJECT: LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT

TITLE: IRRIGATION SCHEDULE, LEGEND, ABBR, & NOTES

174048 SHEET NO: CR PROJECT NO: DESIGNED BY: MW DM DATE: DRAWN BY: DK CW SCALE: CHECKED BY: DK

HBB LANDSCAPE ARCHITECTURE 2101 4TH AVENUE, SUITE 1800 SEATTLE, WA 98121



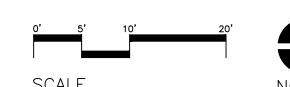
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

REV DATE

DESCRIPTION

REVISIONS

L-2.01







HBB LANDSCAPE ARCHITECTURE
2101 4TH AVENUE, SUITE 1800 206.682.3051 phone
SEATTLE, WA 98121 206.682.3245 fax



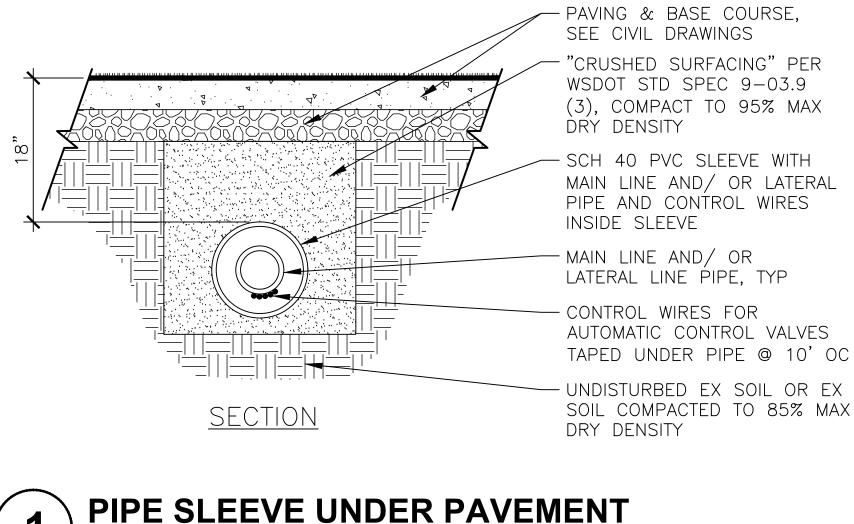
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY
PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE
CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS.
WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT,
THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF
INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY
AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN
APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED. APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

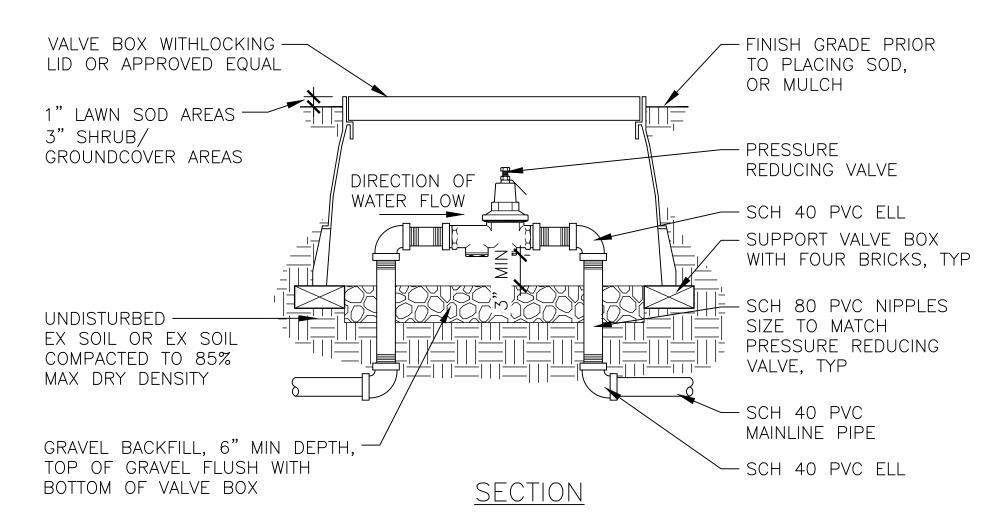


		REVISIONS	PROJECT: SHOF		STORMWA		IHANCEMENT
-			TITLE: IR	RRIGATION P	PLAN		
Ī			DESIGNED BY:	: MW CR	PROJECT NO:	174048	SHEET NO:
ļ			DRAWN BY:	DK DM	DATE:	NOV 2021	L-2.02
	REV	DATE DESCRIPTION	CHECKED BY:	DK CW	SCALE:	NOTED	L-2.U2

REVISIONS

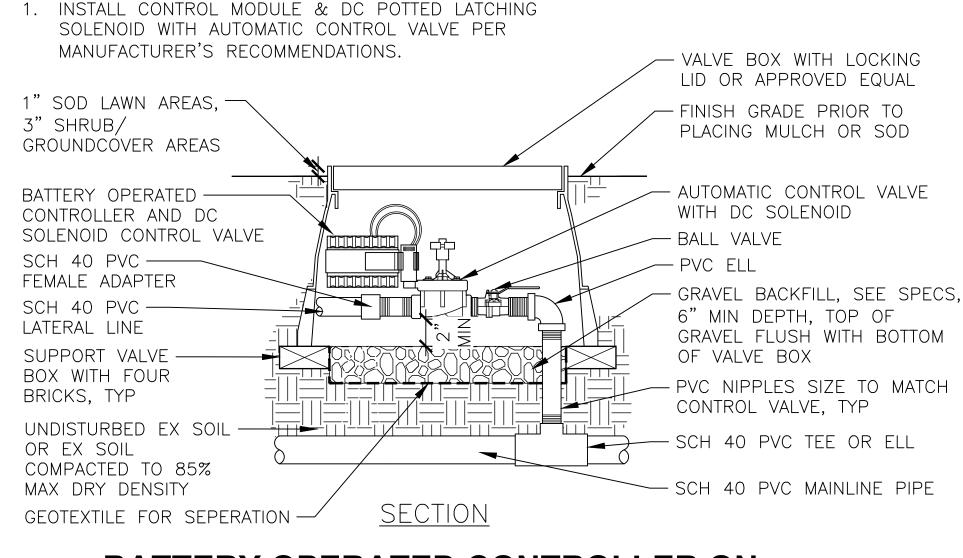
PROJECT:





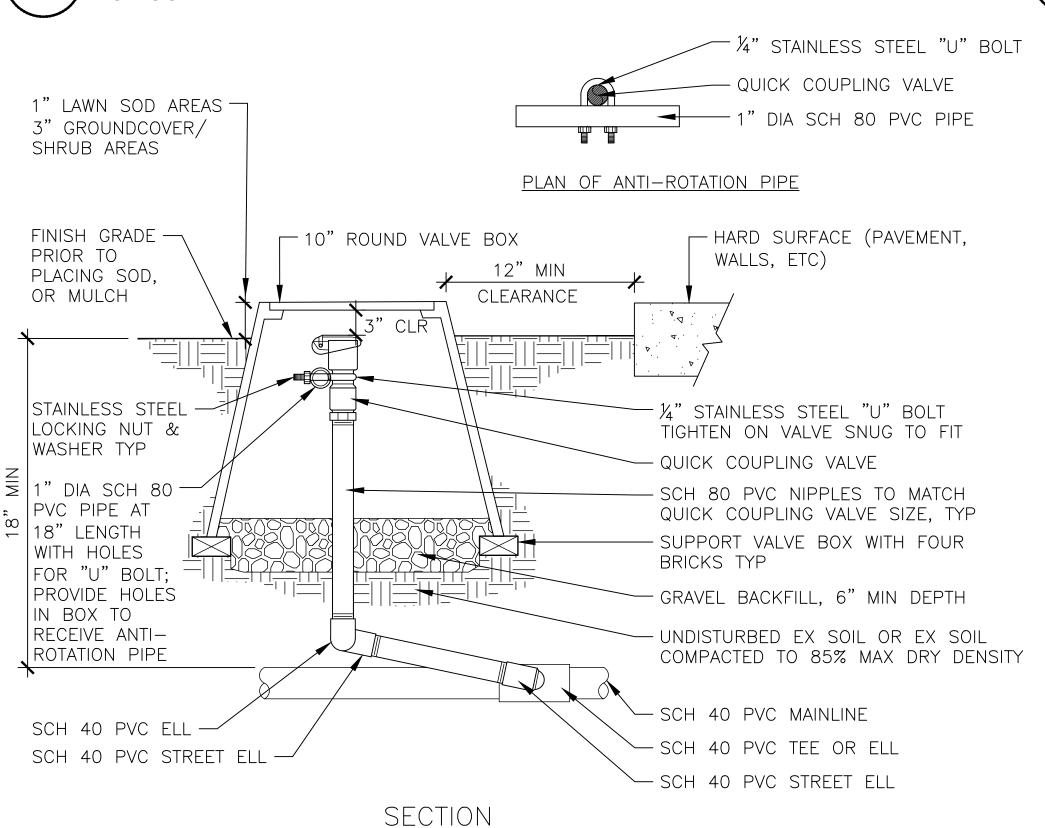
PRESSURE REDUCING VALVE

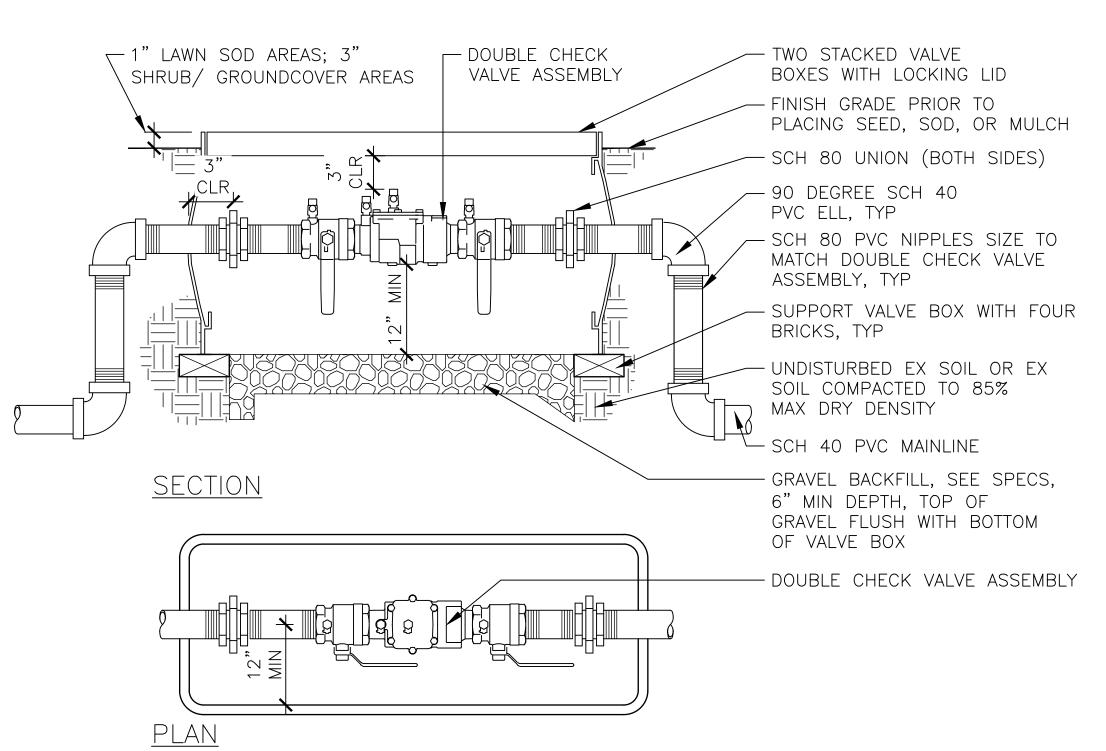
NOT TO SCALE



BATTERY OPERATED CONTROLLER ON **AUTOMATIC CONTROL VALVE WITH BALL VALVE NOT TO SCALE**

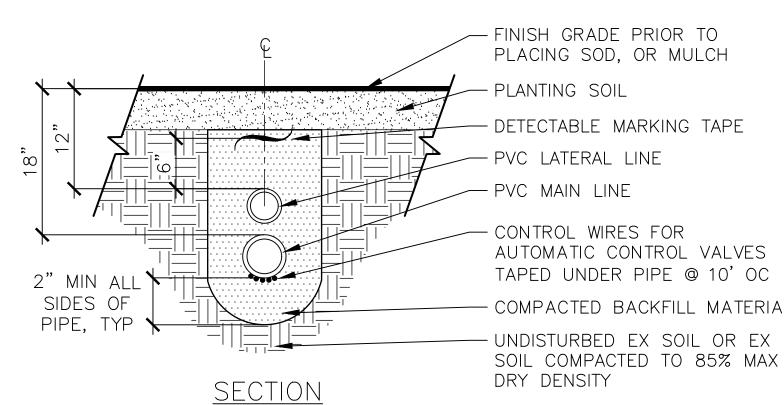
PIPE SLEEVE UNDER PAVEMENT NOT TO SCALE





1. ALL MAIN LINE PIPE UNDER PAVEMENT SHALL BE SLEEVED, SEE DETAIL 1/L2.03.

2. BACKFILL MATERIAL TO BE FREE OF ROCK OR DEBRIS LARGER THAN 1". ABSOLUTELY NO ROCK OR DEBRIS SHALL BE PLACED DIRECTLY ADJACENT TO ANY PIPE.



COMPACTED BACKFILL MATERIAL

MAIN AND LATERAL PIPE TRENCH **NOT TO SCALE**

100% ISSUED FOR BID

HBB LANDSCAPE ARCHITECTURE 2101 4TH AVENUE, SUITE 1800 SEATTLE, WA 98121 206.682.3051 phone 206.682.3245 fax

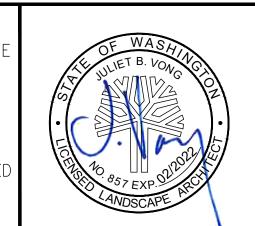
NOT TO SCALE

QUICK COUPLING VALVE



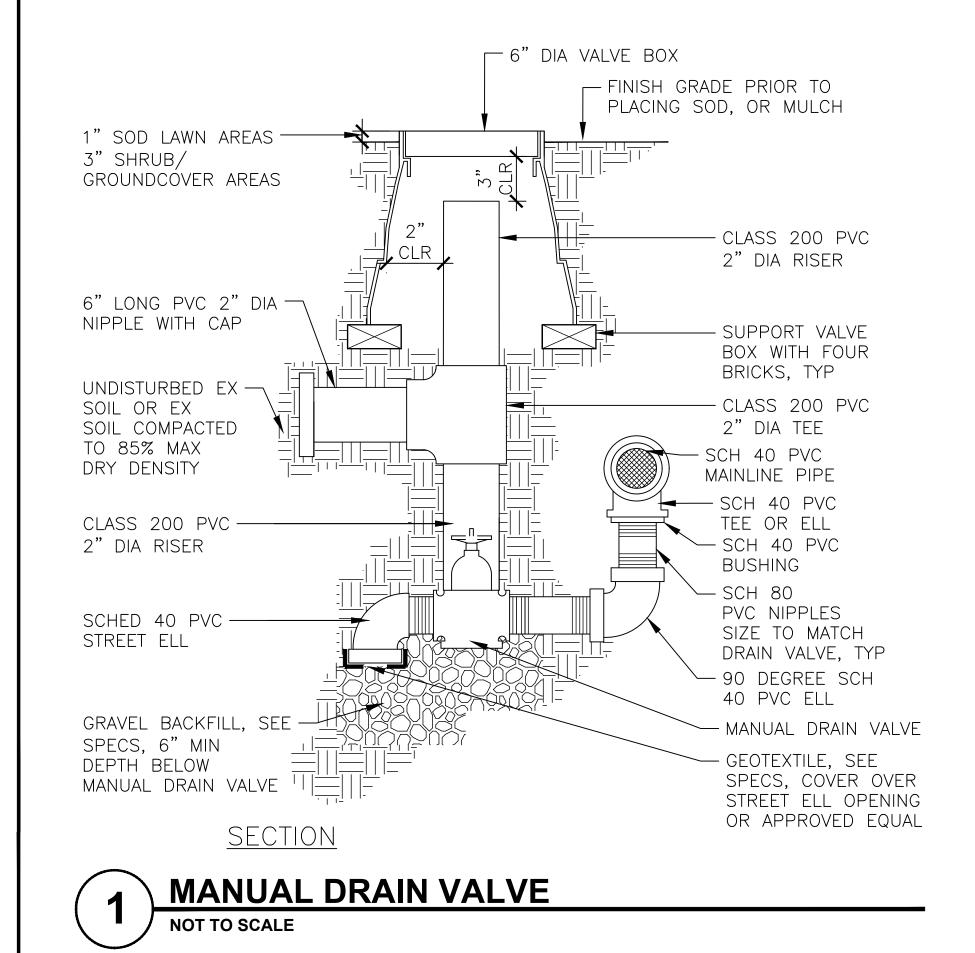
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

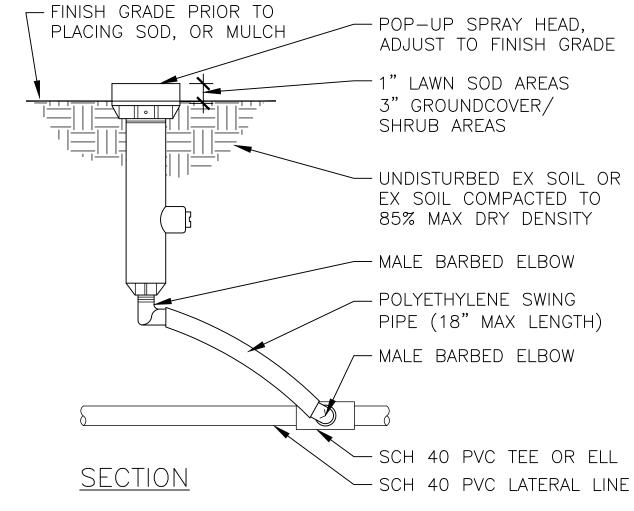
NOT TO SCALE



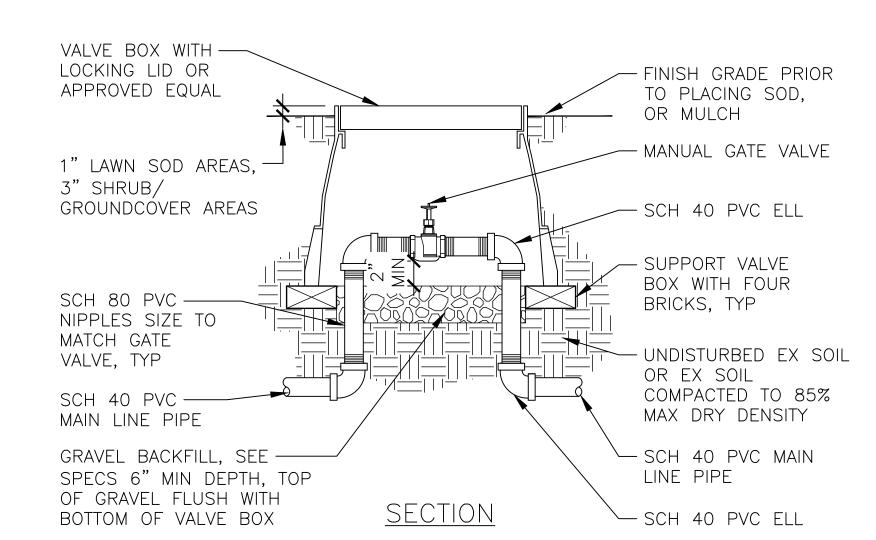
DOUBLE CHECK VALVE ASSEMBLY

		REVISIONS	PROJECT:	I IN	COLN L	ANDING		
			SHORELINE AND STORMWATER ENHANCEMENT					
			TITLE: IRRI	GATION D	ETAILS			
			DESIGNED BY: MW	CR	PROJECT NO:	174048	SHEET NO:	
REV	DATE	DESCRIPTION	DRAWN BY: DK CHECKED BY: DK		DATE: SCALE:	NOV 2021 NOTED	L-2.03	

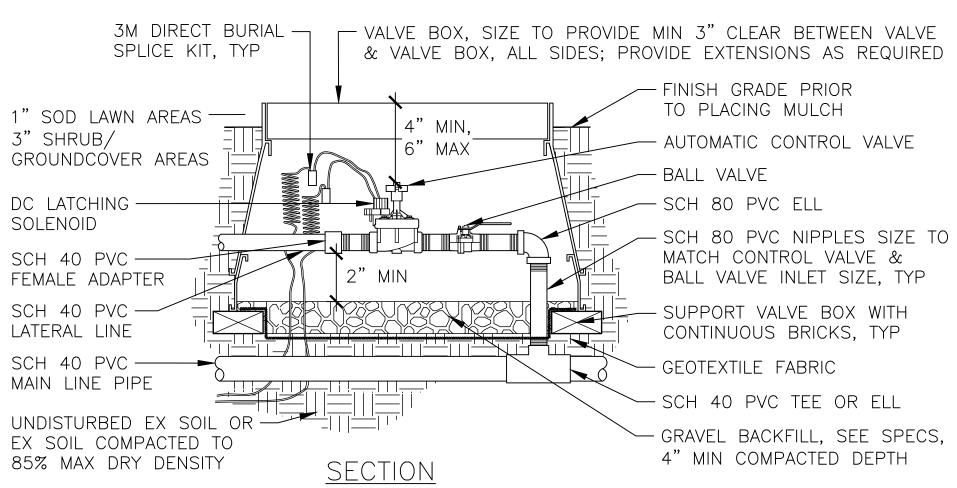




2 POP-UP HEAD WITH POLY SWING RISER ASSEMBLY
NOT TO SCALE



3 MANUAL GATE VALVE
NOT TO SCALE



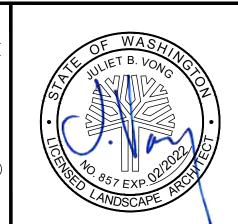
4 AUTOMATIC CONTROL VALVE WITH BALL VALVE NOT TO SCALE

LANDSCAPE ARCHITECTURE
2101 4TH AVENUE, SUITE 1800
SEATTLE, WA 98121

206.682.3051 phone
206.682.30245 fax



PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



	REVISIONS			LINCOLN LANDING SHORELINE AND STORMWATER ENHANCEMENT						
					IRRIGATION DETAILS					
				DESIGNED BY:	: MW	CR	PROJECT NO:	174048	SHEET NO:	
ŀ				DRAWN BY:	DK	DM	DATE:	NOV 2021	L-2.04	
	REV	DATE	DESCRIPTION	CHECKED BY:	DK	CW	SCALE:	NOTED	L-Z.V7	