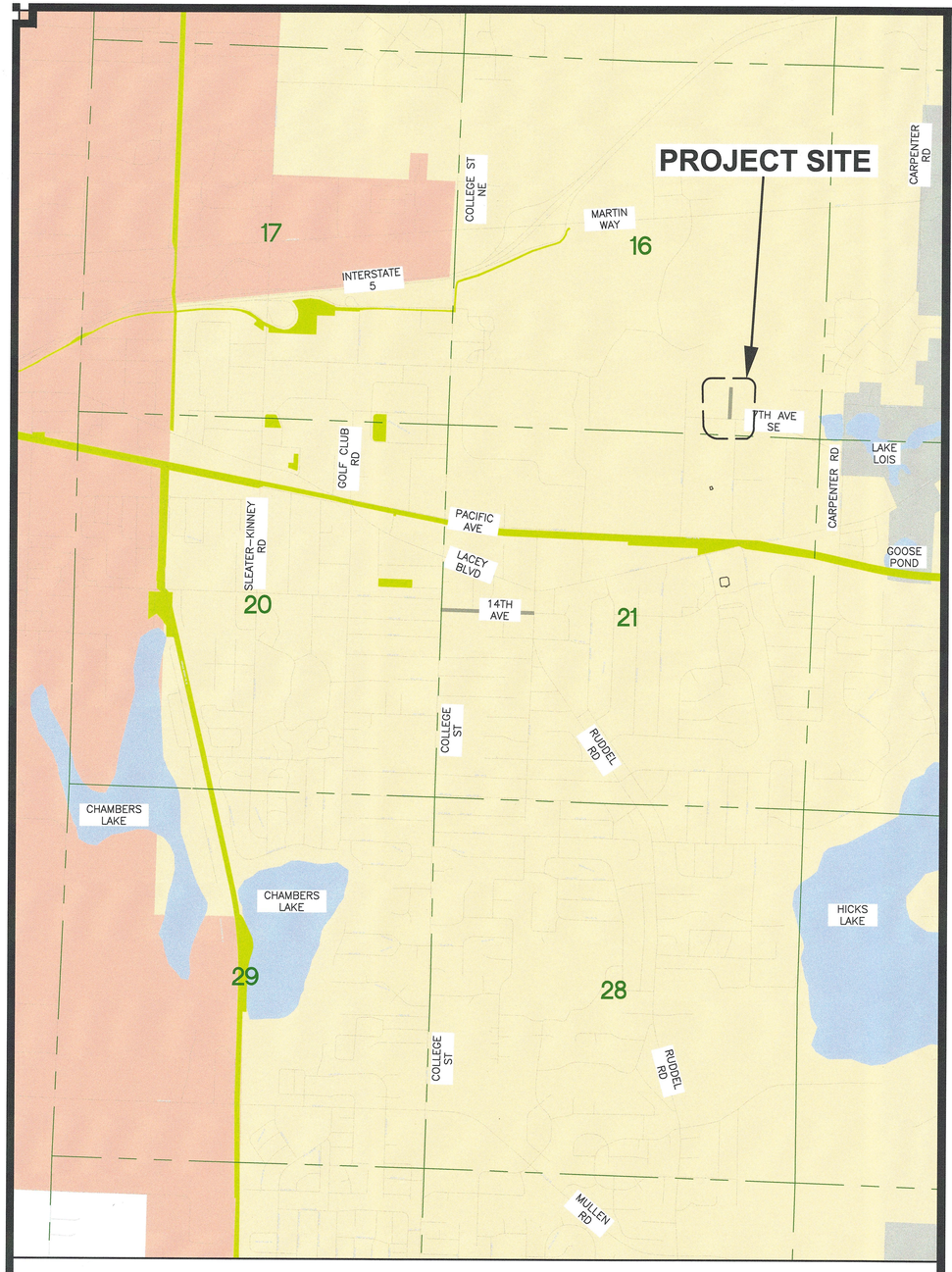

VICINITY MAP
CITY OF LACEY, WASHINGTON
SCALE : 1000

WOODLAND CREEK OIL WATER SEPARATOR

LACEY CONTRACT # PW 2023-03
SECTION 16, T18N, R1W, W.M.

LACEY CITY OFFICIALS

MAYOR:	Andy Ryder
DEPUTY MAYOR:	Malcolm Miller
CITY COUNCIL:	Lenny Greenstein Michael Steadman Carolyn Cox Ed Kunkel Robin Vazquez
CITY MANAGER:	Rick Walk (Interim)
CITY ATTORNEY:	David S. Schneider
CITY ENGINEER:	Aubrey Collier, P.E., S.E.
DIRECTOR OF PUBLIC WORKS:	Scott Egger, P.E.

for DIRECTOR OF PUBLIC WORKS — City Engineer — 5/10/23 DATE

SHEET INDEX

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3	C1	EXISTING CONDITIONS
4	C2	TESC PLAN
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7	C5	SITE PLAN & PROFILE
8-10	D1-D3	DETAILS

LACEY

TERRI ELIZABETH O'NEILL — STATE OF WASHINGTON — 54879 — REGISTERED PROFESSIONAL ENGINEER — 5/4/2023

Lacey Dwg. Number : D-23-07

BLOCK LEGEND:

NEW		EXISTING
	SURVEY MONUMENT	
	CATCH BASIN TYPE 1	
	STORM MANHOLE & CB TYPE 2	
	STORM VALVE	
	FIRE HYDRANT	
	WATER METER	W
	WATER VALVE	W
	SPRINKLER HEAD	SP
	SEWER MANHOLE	S
	SANITARY SEWER CLEAN OUT	CO
	GAS VALVE	G
	SIGN	
	POLE ANCHOR	
	POWER TRANSFORMER	
	POWER POLE	P
	POWER VAULT	P
	JUNCTION BOX	J
	ELECTRICAL SERVICE	
	CABLE TV PEDESTAL	TV
	TELEPHONE MANHOLE	T
	TELEPHONE PEDESTAL	T
	CONIFER TREE	
	DECIDUOUS TREE	4" DEC
	STORM WATER TREATMENT DEVICE	

LINETYPE LEGEND:

NEW		EXISTING
	CONSTRUCTION BASELINE	8+00
	EASEMENT	
	ROAD CENTERLINE	
	CHAIN LINK FENCE	
	ROCK FENCE	
	WIRE FENCE	—XXX—XXX—XXX—XXX—XXX—
	WOOD FENCE	
	GRAVEL	
SD	STORM (PAINTED)	SD
	SEWER (PAINTED)	SS
	RIGHT OF WAY	
	OVERHEAD CABLE	OTV
	UNDERGROUND CABLE (PAINTED)	UTV
	GAS (PAINTED)	G
	UNDERGROUND PHONE (PAINTED)	UPH
	UNDERGROUND FIBER OPTIC (PAINTED)	UFO
	UNDERGROUND ELECTRIC (PAINTED)	UGE
	WATER (PAINTED)	W
	CONTOUR	160.00
	LANDSCAPING VEGETATION	
	WOODEN BARRIER	

HATCH LEGEND:

- AREA FOR PAVEMENT REMOVAL AND REPAVING
- CONCRETE
- BUILDING
- GRAVEL
- ASPHALT

ABBREVIATIONS:

Δ	DEFLECTION ANGLE
EP	EDGE OF PAVEMENT
RT	RIGHT
LT	LEFT
I.E.	INVERT ELEVATION
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
R.	RADIUS
R.P.	RADIUS POINT
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
EX.	EXISTING
EXIST.	EXISTING
STA	STATION
S/W	SIDEWALK
C.S.B.C.	CRUSHED SURFACING BASE COURSE
C.S.T.C.	CRUSHED SURFACING TOP COURSE
CL, ℄	CENTERLINE
CB	CATCH BASIN
N/A	NOT APPLICABLE
A/C	ASPHALT CONCRETE
ACP	ASPHALT CONCRETE PAVEMENT
D.I.	DUCTILE IRON
SD	STORM DRAIN
SS	SANITARY SEWER
OWS	OIL WATER SEPARATOR
DIA, ø	DIAMETER
A.P.	ANGLE POINT
V.P.I.	VERTICAL POINT OF INTERSECTION
V.P.C.	VERTICAL POINT OF CURVATURE
V.P.T.	VERTICAL POINT OF TANGENCY
EL.	ELEVATION
S.Y.	SQUARE YARD
C.Y.	CUBIC YARD
TYP.	TYPICAL
LUM.	LUMINAIRE
L.F.	LINEAR FEET
RD.	ROAD
DR.	DRIVE
PKWY.	PARKWAY
CONST.	CONSTRUCTION
FT.	FOOT
D/W	DRIVEWAY
APPROX.	APPROXIMATELY
U.O.N.	UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 OR 811.
2. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS INDICATED ON PLANS OR DIRECTED BY ENGINEER.
4. THE CONTRACTOR SHALL RESTORE ALL LANDSCAPING TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESTORING MONUMENTS OR PROPERTY CORNERS OUTSIDE OF THE CONSTRUCTION LIMITS.
6. THE CONTRACTOR SHALL ENSURE CONSTRUCTION DOES NOT IMPEDE INGRESS & EGRESS TO PROPERTIES NEAR THE PROJECT SITE FOR THE PROJECTS DURATION.

NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
2. CONTRACTOR SHALL COMPLY WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS OF THE GOVERNING AUTHORITY OR AGENCY.
3. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STD. SPEC. 7-04 STORM SEWERS.

BASIS OF BEARING

MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 – SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259R, GP34005-2, GP34005-4, GP34101-32, GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478. DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

VERTICAL

THE CITY OF LACEY BENCHMARKS ARE BASED ON **NGVD 29** DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

BENCHMARK

CITY OF LACEY BM#1508

CITY OF LACEY 3" SURFACE MONUMENT AT THE INTERSECTION OF 7TH AVE SE & BOWKER ST SE.

ELEV.=169.013

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

PERI ELIZABETH O'NEAL — STATE OF WASHINGTON — 24979 — REGISTERED PROFESSIONAL ENGINEER — 5/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	COVER SHEET & NOTES

WOODLAND CREEK OIL WATER SEPARATOR
GENERAL NOTES

REVISION BLOCK		
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SEC. 16, T18N, R1W, W.M.

SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

7TH AVE SE

5718
5722
5724
5730
5714
5742

SDMH RIM=160.21
IE 12" DI N.=153.71
TOP OIL/SEP E.=157.76
IE 24" HDPE S.=153.71

STORMCEPTOR 44" LID
RIM=159.96

RR TIES (START)
12" GATE VALVE
SDMH RIM=160.04
12" GATE VALVE
RR TIES (END)

SDMH RIM=162.22
IE 24" HDPE N.=154.37
IE 24" HDPE E.=154.52

PRIV. DRIVE

SDMH RIM=160.31
IE 24" HDPE N.=155.01
IE 24" HDPE W.=155.11

20.00' UTILITY EASEMENT

OIL WATER SEPARATOR VAULT

SDMH RIM=159.90
TOP OIL/SEP N.=155.15

SDMH RIM=159.92
IE W.=153.46
IE 24" HDPE S.=153.56
IE 24" HDPE N.=153.36

48" SDMH RIM=156.47
IE 24" HDPE N.=150.97
IE 24" HDPE S.=152.97

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

TERI ELIZABETH O'NEAL
STATE OF WASHINGTON
24870
REGISTERED
PROFESSIONAL ENGINEER
5/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	1"=20'
VERT. SCALE:	N/A
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR
EXISTING CONDITIONS

REVISION BLOCK		
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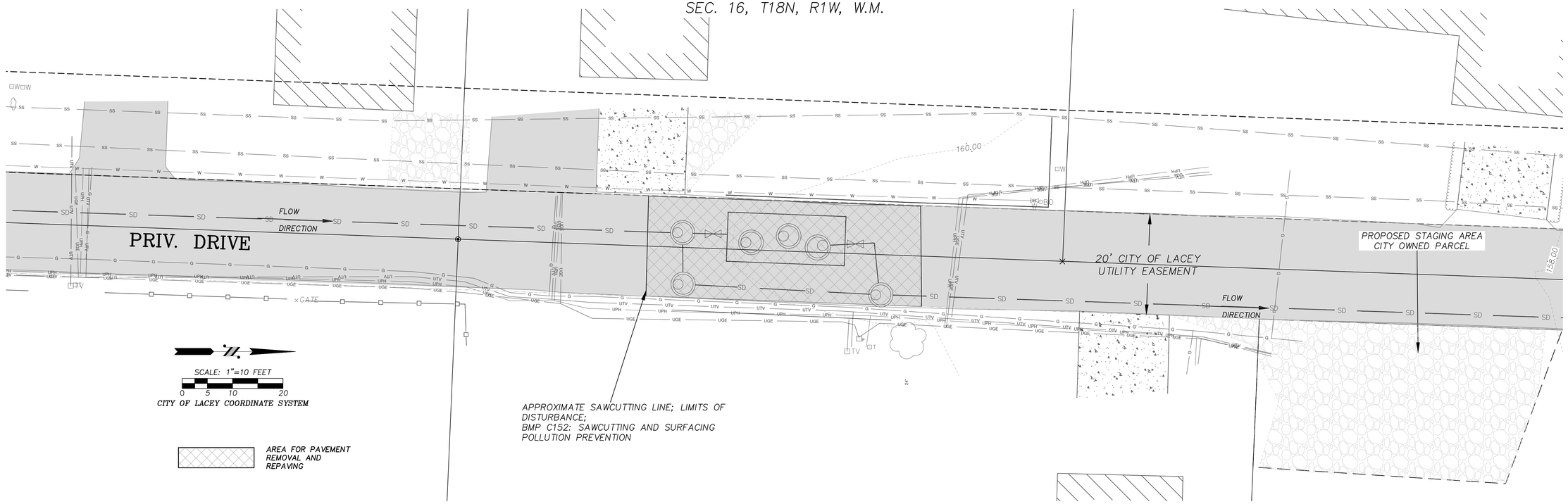

EROSION CONTROL NOTES:

1. TEMPORARY EROSION/WATER POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 8-01 OF THE STANDARD SPECIFICATIONS AND THE LACEY STORM WATER MANUAL AND AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN.
2. SITE INSPECTIONS SHALL BE CONDUCTED BY A PERSON WHO IS KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL. FOR PROJECT SITES THAT REQUIRE A CONSTRUCTION SWPPP, A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) SHALL BE IDENTIFIED IN THE CONSTRUCTION SWPPP AND SHALL BE ON SITE OR ON CALL AT ALL TIMES.
3. APPROVAL OF THE CONSTRUCTION SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION/DETENTION/INFILTRATION FACILITIES, UTILITIES, ETC.).
4. THE IMPLEMENTATION OF THE CONSTRUCTION SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
5. THE CLEARING LIMIT BOUNDARIES (LIMITS OF DISTURBANCE) SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE STANDARDS FOR SURFACE WATER QUALITY, GROUNDWATER QUALITY, OR SEDIMENT QUALITY.
7. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE CONSTRUCTION SWPPP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE DURING THE COURSE OF CONSTRUCTION, INCLUDING CONSTRUCTION ON INDIVIDUAL LOTS.
8. THE CONSTRUCTION SWPPP FACILITIES ON ACTIVE SITES SHALL BE INSPECTED DAILY BY THE CONTRACTOR. THE FACILITIES SHALL BE MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
9. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AT LEAST MONTHLY AND WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT (1"RAINFALL IN 24 HOURS) BY THE CONTRACTOR. THE FACILITIES SHALL BE MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
10. STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. AT NO TIME SHALL MORE THAN 1 FOOT OR 1/3 OF THE BMP VOLUME (WHICHEVER IS LESS) OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A STORM DRAIN INLET PROTECTION BMP. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED AS PART OF PROJECT COMPLETION AND ACCEPTANCE. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. ROADS SHALL BE INSPECTED DAILY AND CLEANED THOROUGHLY AS NEEDED TO PROTECT DOWNSTREAM WATER RESOURCES OR STORMWATER INFRASTRUCTURE. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
12. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. LINEAR CONSTRUCTION ACTIVITIES, SUCH AS RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL COMPLY WITH THESE REQUIREMENTS. THESE STABILIZATION REQUIREMENTS APPLY TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THE CITY OF LACEY MAY DECREASE THESE TIME LIMITS IF IT CAN BE SHOWN THAT A DEVELOPMENT SITE'S EROSION OR RUNOFF POTENTIAL JUSTIFIES A DIFFERENT STANDARD.
13. CONTACT THE CITY FOR APPROVAL PRIOR TO ALL CLEARING, GRADING, AND OTHER SOIL DISTURBING ACTIVITIES THAT OCCUR BETWEEN OCTOBER 1 AND APRIL 30. SUCH WORK SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE CITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED. THE CITY MAY REQUIRE SUPPLEMENTAL SWPPP DOCUMENTATION FOR WET SEASON WORK.
14. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED FROM EROSION.
15. HANDLE AND DISPOSE OF ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON SITE IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
16. USE SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, WHEN CONDUCTING MAINTENANCE AND REPAIR OF VEHICLES AND EQUIPMENT.
17. REPORT SPILLS MONDAY THROUGH FRIDAY, 7:00 A.M. TO 3:30 P.M. (360) 491-5644. AFTER HOURS, YOU CAN LEAVE A VOICEMAIL AT THE NUMBER ABOVE, OR SELECT THE OPTION TO BE CONNECTED TO THURSTON COUNTY CENTRAL DISPATCH, WHO WILL NOTIFY THE CITY'S STAND-BY SPILL RESPONSE STAFF.
18. WATER FROM DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SEDIMENT TRAP. CLEAN, NON-TURBID WATER MAY BE DISCHARGED TO SURFACE WATERS, PROVIDED THE DISCHARGE DOES NOT CAUSE EROSION OR FLOODING. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM STORM WATER AND PROPERLY DISPOSED.
19. IF SEDIMENT IS TRACKED BEYOND THE LIMITS OF DISTURBANCE OR STAGING AREA IT SHALL PROMPTLY AND THOROUGHLY BE CLEANED AT THE END OF EACH DAY, OR MORE FREQUENTLY DURING WET WEATHER. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED.

EROSION CONTROL NOTES (CONT):

20. ALL SLURRY AND CUTTINGS CREATED DURING SAWCUTTING OPERATIONS SHALL BE HANDLED IN ACCORDANCE WITH BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION AS DESCRIBED IN THE CITY OF LACEY 2022 STORMWATER DESIGN MANUAL.

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

TERI ELIZABETH O'NEAL STATE OF WASHINGTON 24979 REGISTERED PROFESSIONAL ENGINEER 8/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	1"=10'
VERT. SCALE:	N/A
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR TESC PLAN

REVISION BLOCK

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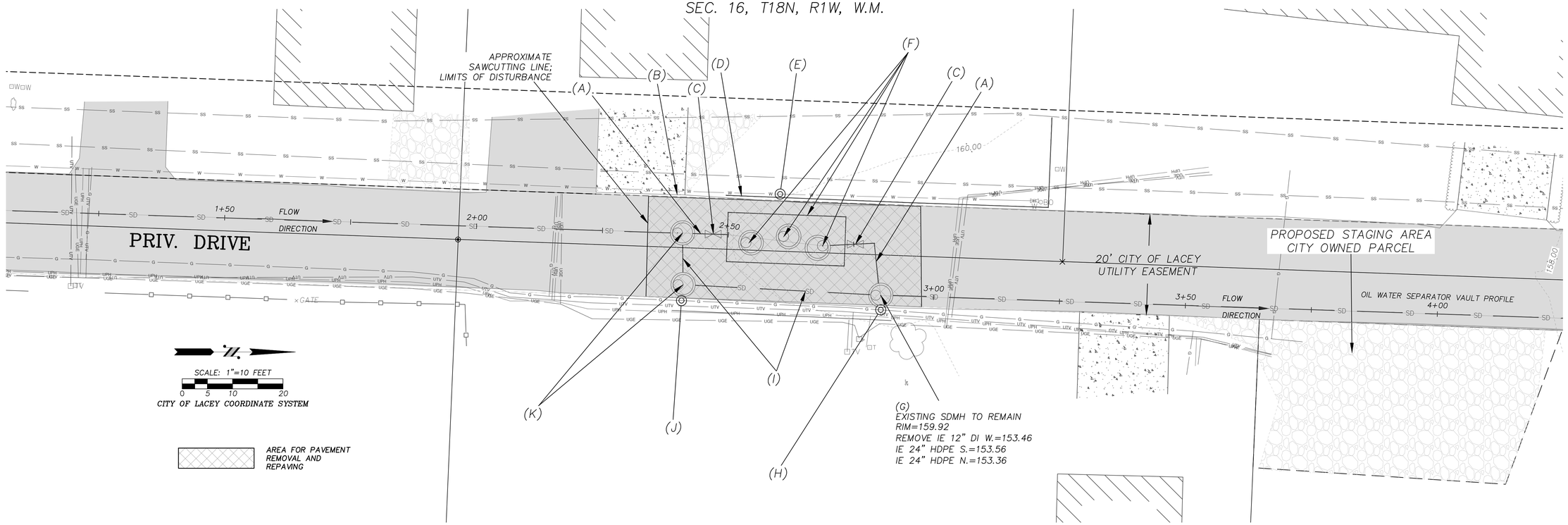

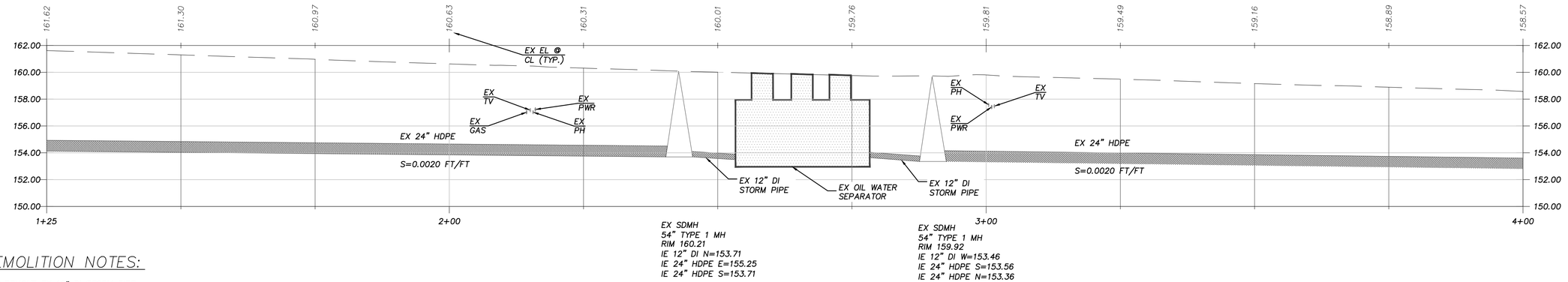

OIL WATER SEPARATOR VAULT PROFILE

DEMOLITION NOTES:

(A) REMOVE EX 12" DI STORM PIPE
(B) PROTECT EX DRIVEWAY
(C) REMOVE 12" GATE VALVE
(D) REMOVE EX RAILROAD TIES PRIOR TO WORK, PLACE THEM IN ORIGINAL LOCATION UPON COMPLETION
(E) 2" PVC WATER MAIN POTHOLED APPROX 2.25' FROM EP. DEPTH=4' FROM EX GRADE.
(F) ABANDON OIL WATER SEPARATOR VAULT AND ALL APPURTENANCES PER ABANDONMENT DETAIL ON SHEET D3
(G) EX SDMH TO REMAIN. ABANDON IE 12" DI W.=153.46, GROUT SEAL INVERT, REMOVE IE 24" S.=153.56
(H) EX GAS LINE POTHOLED APPROX 1.5' FROM SDMH RIM EDGE. DEPTH=2.25'
(I) REMOVE 42 LF EX 24" HDPE
(J) EX GAS LINE POTHOLED APPROX 2' FROM SDMH RIM. DEPTH=2.5'
(K) REMOVE EXISTING SDMH

CITY OF LACEY, WASHINGTON
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PERI ELIZABETH O'NEAL — STATE OF WASHINGTON — 24979 — REGISTERED PROFESSIONAL ENGINEER — 5/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	1"=10'
VERT. SCALE:	1"=4'
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR DEMOLITION PLAN 1

REVISION BLOCK		
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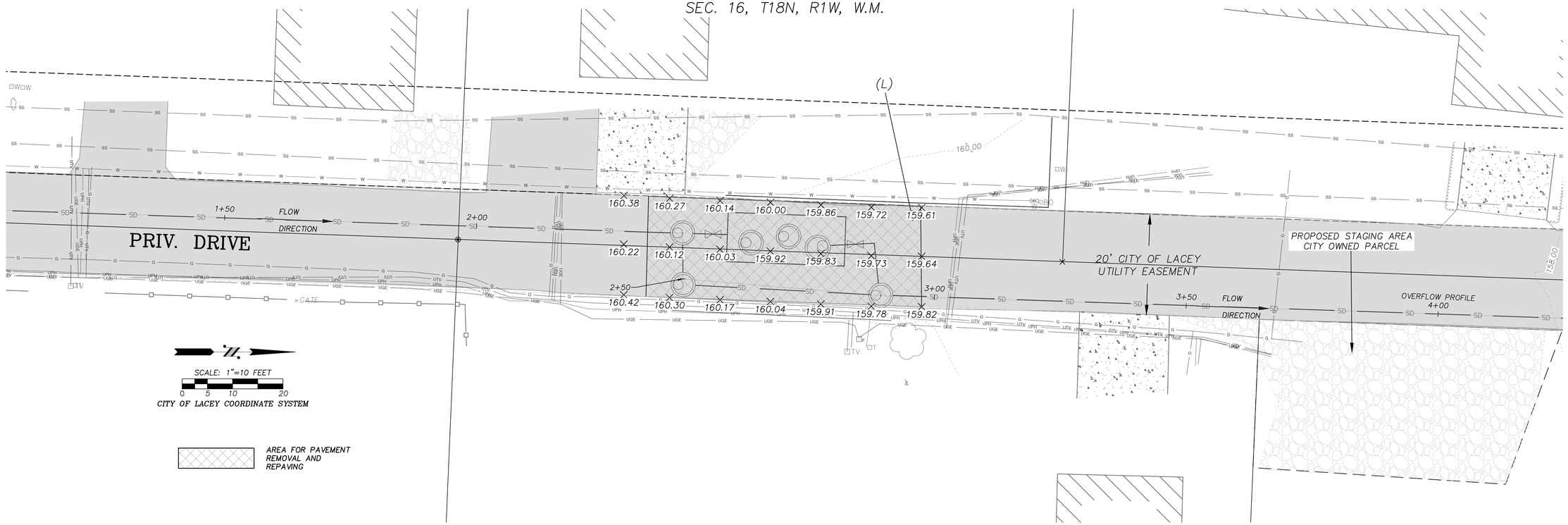

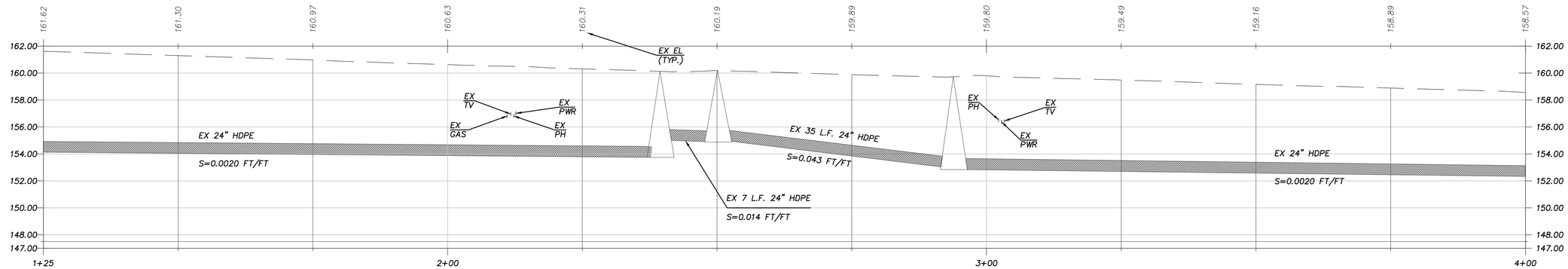

DEMOLITION NOTES:

(L) REMOVE EXISTING ASPHALT. REPAVE WITH MIN 4" HMA CL. 1/2" PG 58H-22 TO THE EXISTING ELEVATIONS (SHOWN).

EX SDMH
TYPE 1 MH
RIM 160.21
IE 24" HDPE S=153.71
IE 12" DI N=153.71
IE 24" HDPE E=155.25

EX SDMH
TYPE 1 MH
RIM 160.21
IE 24" HDPE W=155.11
IE 24" HDPE N=155.01

EX SDMH
TYPE 1 MH
RIM 159.92
IE 12" DI W=153.46 (ABANDON)
IE 24" HDPE S=153.56
IE 24" HDPE N=153.36

EXISTING OVERFLOW PROFILE

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

PERI ELIZABETH O'NEAL — STATE OF WASHINGTON — 24979 — REGISTERED PROFESSIONAL ENGINEER — 5/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	1"=10'
VERT. SCALE:	1"=4'
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR
DEMOLITION PLAN 2

REVISION BLOCK		
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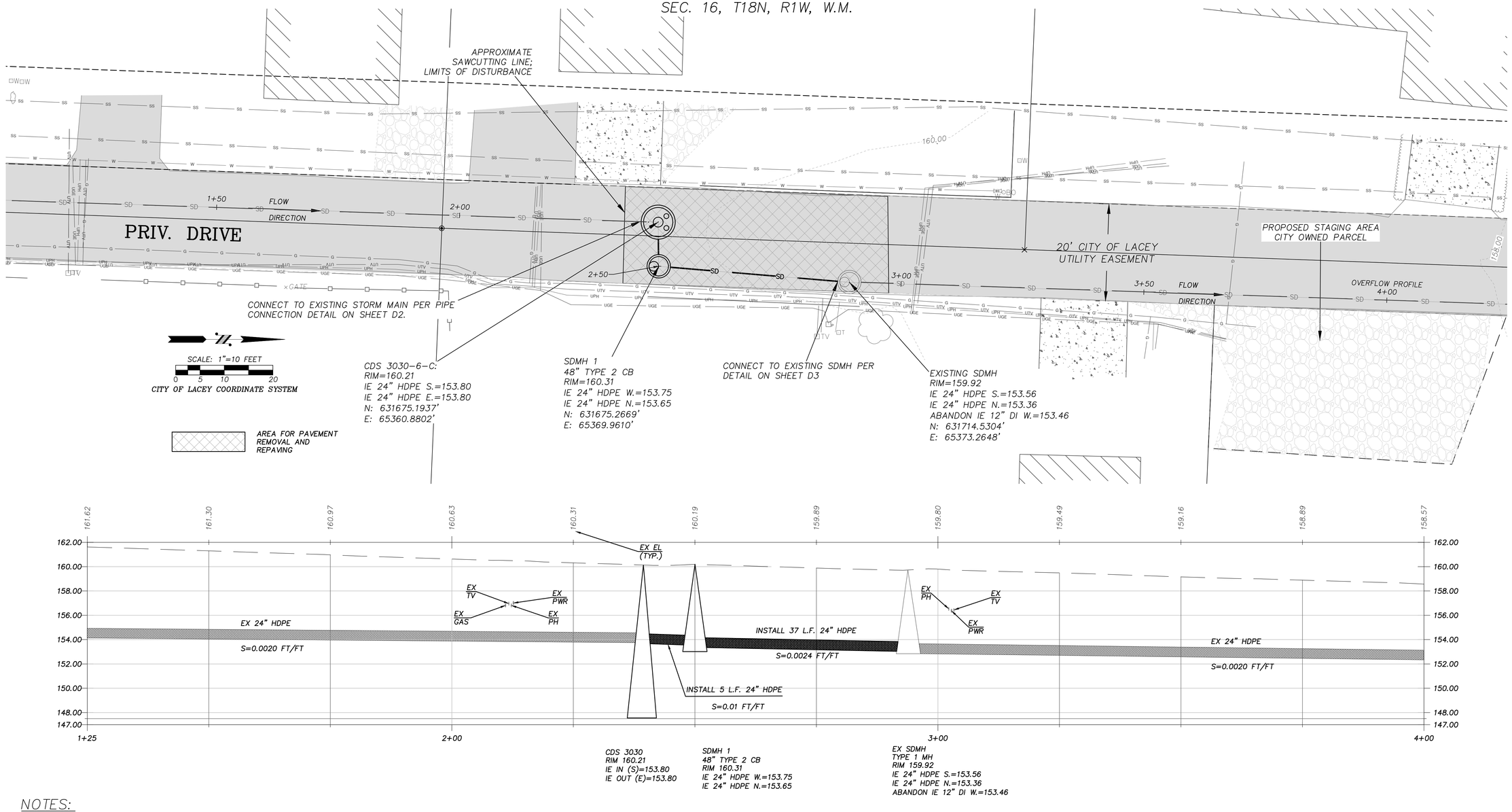

NOTES:

1. PROVIDE A SMOOTH TRANSITION BETWEEN THE EXISTING ROADWAY AND THE DRIVEWAY.
2. THE NEW ROADWAY SURFACE IS TO MATCH THE EXISTING GRADE AS SHOWN ON SHEET C4.
3. THE CONTRACTOR SHALL PREPARE THE DRIVEWAY TRANSITION FOR HMA PRIOR TO PLACEMENT.

PROPOSED OVERFLOW PROFILE

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

TERI ELIZABETH O'NEAL STATE OF WASHINGTON 24979 REGISTERED PROFESSIONAL ENGINEER 8/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	1"=10'
VERT. SCALE:	1"=4'
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR
PLAN AND PROFILE

REVISION BLOCK		
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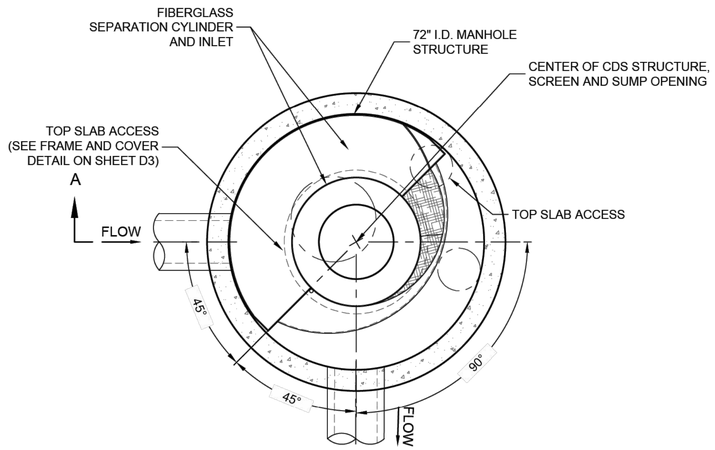
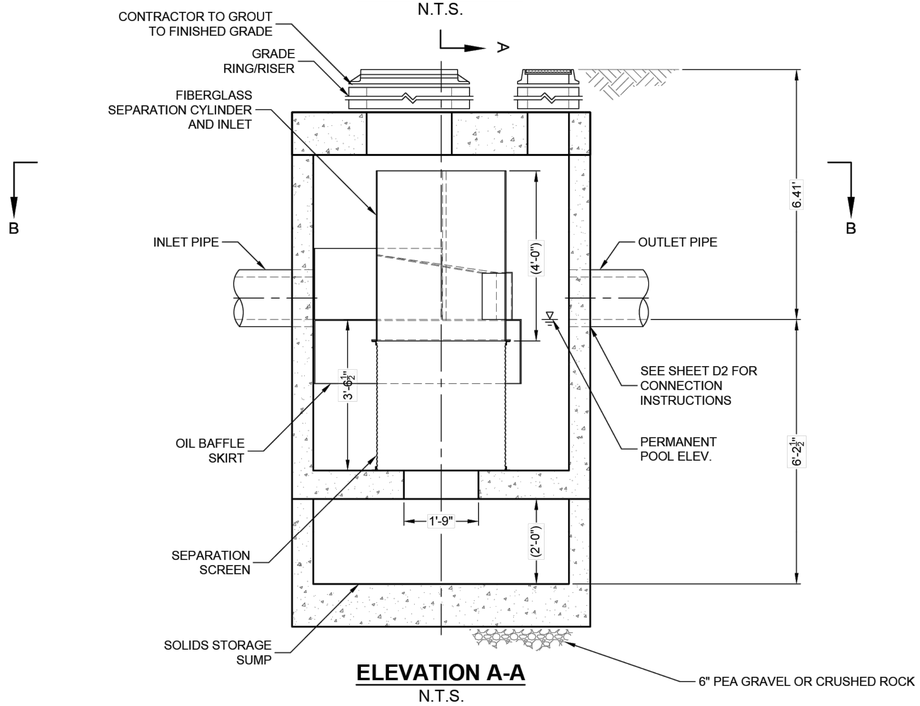


PLAN VIEW B-B
N.T.S.



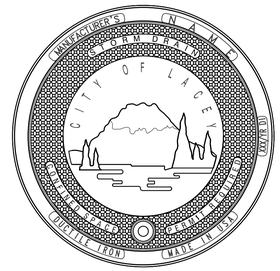
ELEVATION A-A
N.T.S.

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,788,848; 6,641,720; 8,511,595; 8,581,783; RELATED FOREIGN PATENTS; OR OTHER PATENTS PENDING.

CDS3030-6-C DESIGN NOTES

THE STANDARD CDS3030-6-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS



COVER
(24" DIA)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/s)	3 CFS
PEAK FLOW RATE (CFS OR L/s)	12 CFS
RETURN PERIOD OF PEAK FLOW (YRS)	
SCREEN APERTURE (2400 OR 4700)	2400

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	153.80	HDPE	24"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	153.80	HDPE	24"

RIM ELEVATION	160.21

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. THE PROVIDED DETAILS APPLY TO CONTECH'S CDS 3020-6-C INLINE STORMWATER TREATMENT DEVICE. THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE DEVICE FOR APPROVAL PER SECTION E OF THE SPECIFICATIONS. IF AN EQUAL IS APPROVED, INSTALLATION SHALL BE PER THE MANUFACTURERS INSTRUCTIONS.
2. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
3. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTECT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE,
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON A SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS3030-6-C
INLINE CDS
STANDARD DETAIL

K:\PROJECTS\2023\PW 2023-03 WOODLAND CREEK OIL WATER SEPARATOR\DESIGN\04 DESIGN INFORMATION\03 AUTOCAD FILES\CDS3030-6-C-DTL.DWG 3/21/2023 8:04 AM

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR DETAIL SHEET

REVISION BLOCK		
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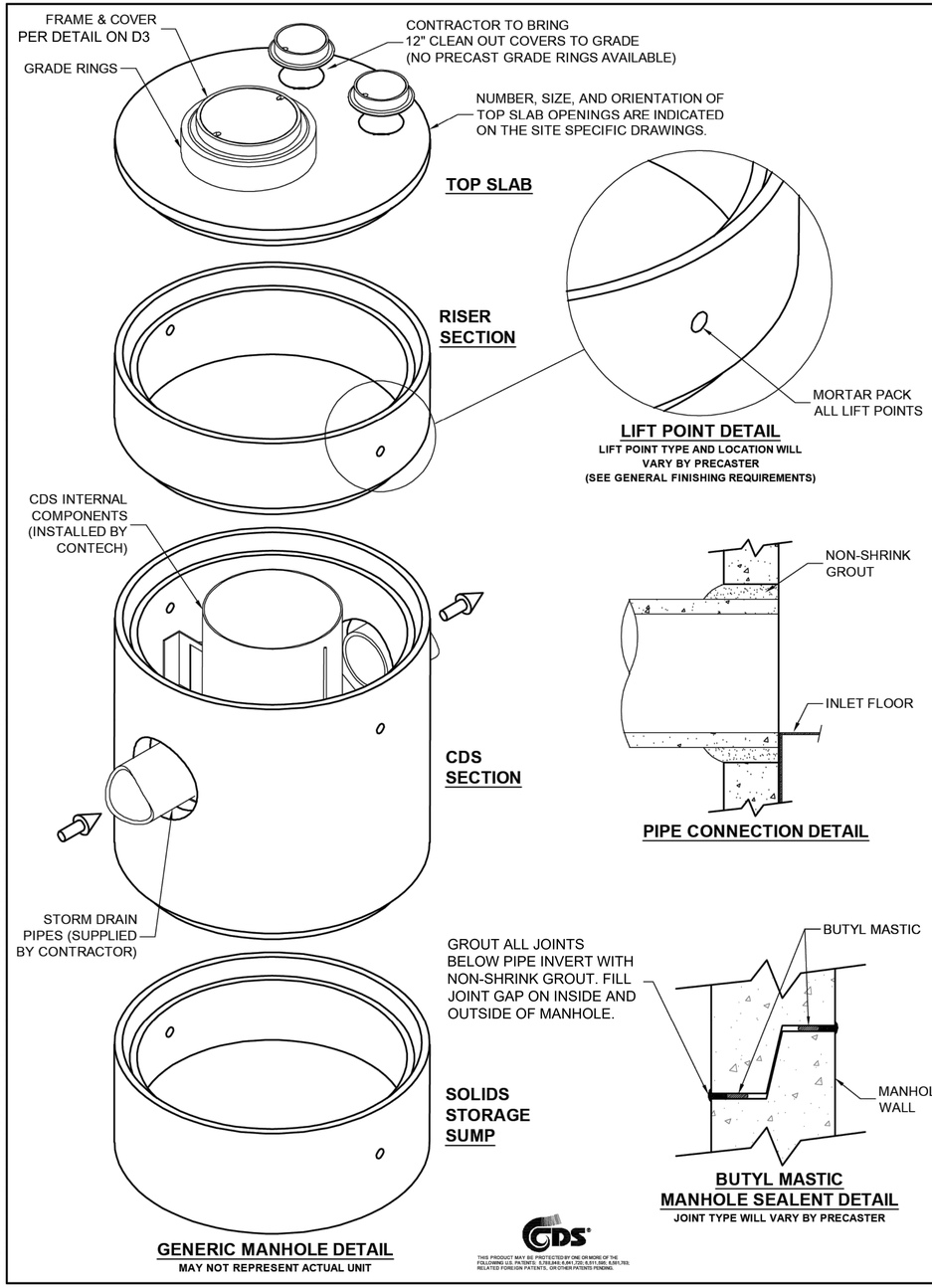

I:\STORMWATER\NPD\4 PRODUCTS\CDS\INSTALLATION GUIDES\CDS-C CONTRACTOR INSTALLATION SPECIFICATIONS.DWG 12/10/2021 11:03 AM

OVERVIEW:
THESE INSTRUCTIONS PROVIDE GUIDELINES AND INSTRUCTIONS FOR SETTING THE PRECAST CONCRETE MANHOLE SECTIONS THAT MAKE UP THE CDS-C STYLE WATER QUALITY SYSTEM. BEFORE STARTING THE INSTALLATION, BE SURE YOU HAVE ALL THE COMPONENTS, TOOLS, AND SUPPLIES NECESSARY TO COMPLETE THE WORK.

CRANE SELECTION:
THE CONTRACTOR IS RESPONSIBLE FOR SELECTING THE APPROPRIATE EQUIPMENT TO UNLOAD AND SET THE CDS MANHOLE SECTIONS. CONTECH WILL PROVIDE THE CONTRACTOR WITH THE WEIGHTS OF THE PRECAST SECTIONS. A REPRESENTATIVE FROM THE CRANE COMPANY SHOULD VISIT THE JOBSITE AND REVIEW PERTINENT INFORMATION (SHOP DRAWINGS, WEIGHTS, ETC) PRIOR TO THE SELECTION OF THE CRANE. THE CRANE REPRESENTATIVE AND/OR CONTRACTOR SHOULD DETERMINE THE DISTANCE FROM CENTER OF THE CRANE'S POSITION TO THE CENTER OF THE FINAL POSITION OF THE PRECAST UNITS. THE WEIGHT AND THE DISTANCE FROM THE CENTER OF THE CRANE'S POSITION TO THE CENTER OF THE FINAL POSITION OF THE PRECAST UNITS DETERMINE THE CRANE SIZE. LOCATE THE CRANE AS CLOSE TO THE INSTALLATION AS POSSIBLE AND FOLLOW ALL RECOMMENDATIONS OF THE CRANE SUPPLIER. THE STAGING AREA FOR THE CRANE MUST BE STABILIZED AND CRANE SUPPLIER SHOULD BE PREPARED TO SUPPLY OUTRIGGER MATS.

UNLOADING AND HANDLING:
ANY UNLOADING/HANDLING SUGGESTIONS OR GUIDANCE IS BEYOND CONTECH'S SCOPE OF WORK BUT CAN BE OBTAINED FROM THE PRECASTER. CONTACT CONTECH IF CONTACT INFORMATION FOR THE PRECASTER IS NEEDED. THE PRECAST MANHOLE COMPONENTS WILL HAVE LIFTING POINTS OR DEVICES CAST-INTO THE VARIOUS PIECES AND WILL BE DELIVERED TO THE PROJECT SITE VIA FLATBED TRANSPORT. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AT THE SITE THAT HAS ADEQUATE LIFTING CAPACITY TO UNLOAD THE PRECAST COMPONENTS.

GENERAL FINISHING REQUIREMENTS:
WHERE CAVITIES WERE CREATED FOR LIFTING, SAID CAVITIES SHALL BE PACKED WITH NON-SHRINK GROUT AND FINISHED TO CONFORM TO THE SURFACE THAT WOULD HAVE OTHERWISE EXISTED. WHERE PROTRUDING CABLE LOOPS HAVE BEEN PROVIDED FOR LIFTING, THOSE LOOPS SHALL BE CUT FLUSH WITH THE FINISHED SURFACE. ALL WORK THROUGHOUT THE INSTALLATION SHALL BE COMPLETED IN A PROFESSIONAL STANDARD NORMALLY EXPECTED FOR THE CLASS OF WORK BEING PERFORMED.

EXCAVATION, DEWATERING AND SHORING:
THE CONTRACTOR SHALL EXCAVATE, DEWATER AND SHORE IN ACCORDANCE WITH THE APPLICABLE PROJECT SPECIFICATIONS FOR "EXCAVATION AND BACK-FILL", "DEWATERING AND SHORING", AS PROVIDED BY THE ENGINEER TO ENSURE A SAFE WORKING ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING THE ACTUAL HEIGHT OF THE PRECAST CONCRETE COMPONENTS DELIVERED TO THE SITE PRIOR TO INSTALLING ANY PORTION OF THE CDS UNIT TO VERIFY THE REQUIRED DEPTH OF EXCAVATION BELOW PIPE INVERT MATCHES THE DEPTH GIVEN ON THE CONTECH PROJECT SPECIFIC CONTRACT DRAWING.

SUB-GRADE PREPARATION:
ONCE SITE IS EXCAVATED TO THE CORRECT DEPTH, COMPACT THE UNDISTURBED SUB-GRADE MATERIALS TO 95% OF MAXIMUM DENSITY AT +/-2% OF OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF CRUSHED ROCK. THE CRUSHED ROCK SUBGRADE MATERIAL SHALL BE COMPOSED TO WITHSTAND A DESIGN LOADING OF 2,000 POUNDS PER SQUARE FOOT (PSF). IT IS RECOMMENDED THAT THE HOLE BE OVER-EXCAVATED A MINIMUM OF 6" AND BACKFILLED WITH AGGREGATE BASE AND COMPACTED TO 95% TO MAKE SUBGRADE.

1. SUMP INSTALLATION
THE CDS MANHOLE SHALL BE SET IN THE LOCATION SHOWN ON THE PROJECT SPECIFIC SITE PLANS AND ALIGNED WITH THE CENTERLINE OF THE MAIN STORM DRAIN PIPE. START BY SETTING THE SUMP BASE SECTION ON THE PREPARED SUB-GRADE AND CHECK FOR PLUMB AND LEVEL. ENSURE JOINT SURFACE IS CLEAN AND DRY THEN PLACE A LAYER OF BUTYL MASTIC MANHOLE SEALANT (SUPPLIED BY CONTECH) ON BOTH UPPER AND LOWER SHELVES OF THE SUMP BASE TONGUE & GROOVE JOINT (SEE BUTYL MASTIC MANHOLE SEALANT DETAIL).

2. CDS SECTION INSTALLATION
THE CDS SECTION IS DELIVERED TO THE PROJECT SITE WITH ALL INTERNAL COMPONENTS PRE-INSTALLED BY CONTECH. IF THE SIZE OF THE CDS UNIT REQUIRES THAT INTERNAL COMPONENT INSTALLATION BE PERFORMED AT THE PROJECT SITE, CONTECH WILL MAKE APPROPRIATE ARRANGEMENTS WITH THE CONTRACTOR PRIOR TO THE INSTALLATION OF THE MANHOLE. PLACE BUTYL MASTIC MANHOLE SEALANT ON THE TOP JOINT IN THE SAME MANNER AS THE SUMP BASE. THE CDS SECTION RISER SHALL BE SET WITH THE PROPER ORIENTATION TO THE STORM DRAIN TO ENSURE CORRECT ALIGNMENT OF THE INLET AND OUTLET PIPE OPENINGS. IF THE INLET AND OUTLET OPENINGS ARE REVERSED, THE STORMWATER TREATMENT UNIT WILL NOT FUNCTION. IF IT IS UNCLEAR WHICH OPENING IS INLET AND WHICH OPENING IS OUTLET, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE BEFORE PROCEEDING.
IMPORTANT: APPLY LOAD TO MANHOLE SECTIONS TO COMPRESS BUTYL MASTIC SEALANT IF NECESSARY. UNIT MUST BE WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. GROUT ALL JOINTS BELOW PIPE INVERT.

3. STORM DRAIN PIPE CONNECTION
CONTRACTOR TO PROVIDE, INSTALL, AND GROUT STORM DRAIN PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN ON THE CONTECH CONTRACT DRAWINGS. SUPPORT THE INLET AND OUTLET PIPES IN THE CORRECT LOCATION, THEN USING NON-SHRINK GROUT, SEAL THE VOIDS AROUND THE PIPES AND MANHOLE WALLS. **IMPORTANT: INLET PIPE INVERT MUST BE AT OR ABOVE THE FLOOR OF THE INLET TROUGH SO THAT NO FIBERGLASS BLOCKS THE FLOW OF WATER INTO THE UNIT.**

4. ADDITIONAL RISERS AND TOP SLAB INSTALLATION
PLACE ANY REMAINING MANHOLE SECTIONS TO BRING THE CDS UNIT TO THE CORRECT HEIGHT. ENSURE JOINT SURFACE IS CLEAN AND DRY THEN PLACE A LAYER OF BUTYL MASTIC MANHOLE SEALANT (SUPPLIED BY CONTECH) ON BOTH UPPER AND LOWER SHELVES OF ALL REMAINING TONGUE & GROOVE JOINTS. AFTER PLACING BUTYL MASTIC ON THE TOP JOINT OF THE LAST RISER SECTION, INSTALL THE MANHOLE TOP SLAB. ROTATE THE TOP SLAB TO THE CORRECT LOCATION AS SHOWN ON THE CONTECH CONTRACT DRAWINGS. GRADE RINGS, FRAMES & COVERS WILL BE PROVIDED FOR EACH TOP ACCESS OPENING TO BRING THE UNIT TO FINISHED GRADE. SOME GROUT MAY STILL BE REQUIRED TO BRING THE FRAME & COVER TO GRADE IF A GAP REMAINS AFTER THE GRADE RINGS ARE INSTALLED.

5. BACKFILL
UPON COMPLETION OF THE CDS UNIT INSTALLATION,THE EXCAVATION SHALL BE BACKFILLED WITH AN AGGREGATE BASE MATERIAL, PEA GRAVEL, OR CONTROLLED DENSITY CEMENT BACKFILL. THE AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION OR AS SPECIFIED BY THE ENGINEER WHEN TESTED BY ASTM DESIGNATION A1557, UNLESS THE CDS UNIT IS TO RECEIVE TRAFFIC LOADINGS WHEREBY THE FOLLOWING CONDITIONS SHALL APPLY: FOR CDS UNITS INSTALLED IN A TRAVEL WAY, THE UPPER TWO FEET OF BACKFILL SHALL BE AGGREGATE BASE COMPACTED TO 95% (MINIMUM).

6. SITE CLEANUP
REMOVE ALL MATERIAL AND DEBRIS FROM THE INLET, SEPARATION CYLINDER, AND SUMP UPON COMPLETION OF INSTALLATION.
IMPORTANT: PRIOR TO PROJECT COMPLETION, CONTRACTOR SHALL FILL CDS UNIT WITH WATER TO FLOWLINE INVERT.

CDS CONCENTRIC PRECAST CONCRETE WATER QUALITY MANHOLE CONTRACTOR INSTALLATION SPECIFICATIONS

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

TERI ELIZABETH O'NEAL, STATE OF WASHINGTON, 24979, REGISTERED PROFESSIONAL ENGINEER
10/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR
DETAIL SHEET

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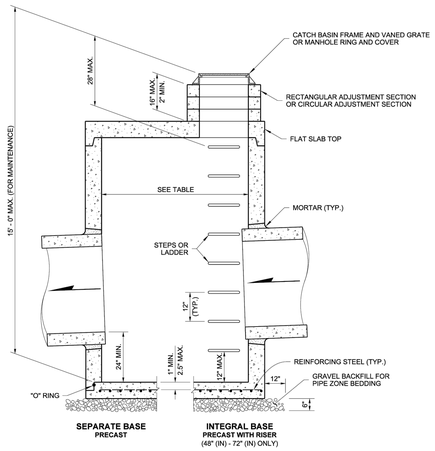


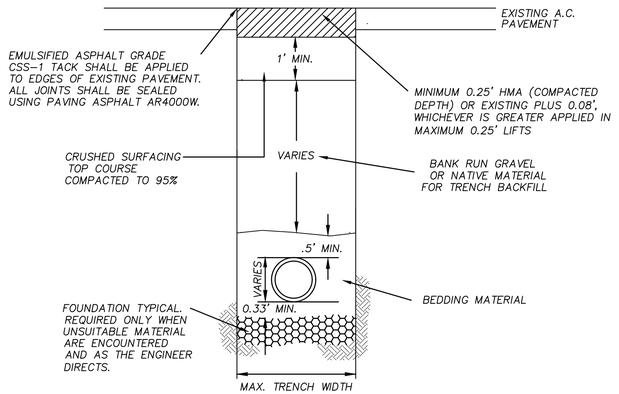
NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3.**

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ① PP ④	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

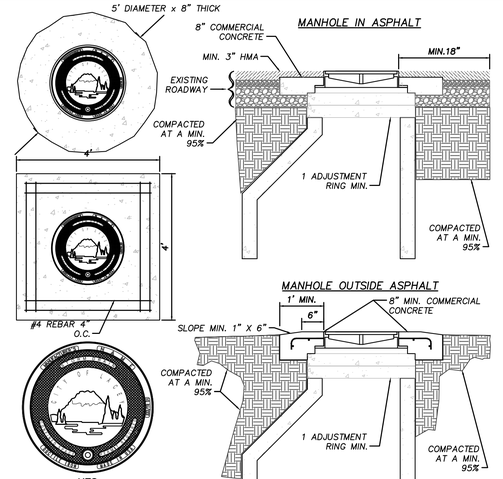
① Corrugated Polyethylene Storm Sewer Pipe **(See Standard Specification Section 9-05.20)**
② **(See Standard Specification Section 9-05.12(1))**
③ **(See Standard Specification Section 9-05.12(2))**
④ Polypropylene Pipe **(See Standard Specification Section 9-05.24)**



GENERAL NOTES:

1. ALL MATERIALS EXCEPT HMA AND BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY AS DETERMINED BY ASTM D1557.
2. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF LACEY STANDARDS.
3. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

TRENCH RESTORATION
N.T.S.



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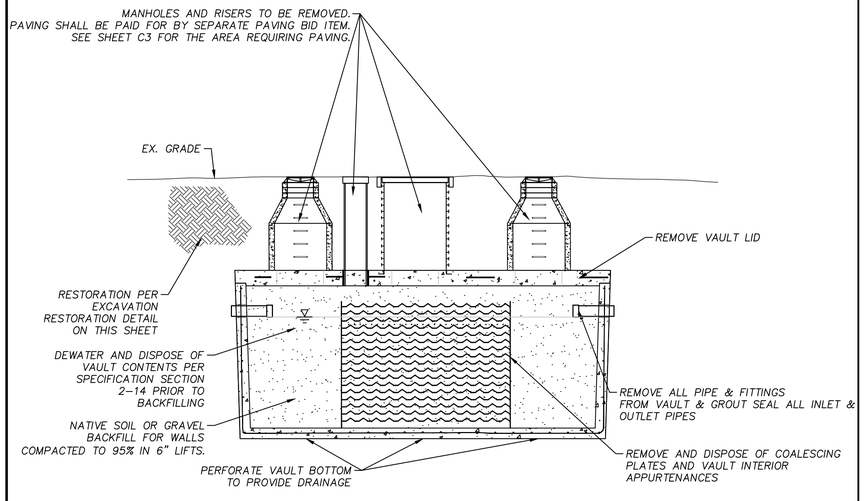
GENERAL NOTES:

1. ALL CONCRETE PADS FOR MANHOLES OUTSIDE THE ASPHALT SHALL HAVE REINFORCING STEEL AS SHOWN ABOVE, REBAR TO MEET ASTM A615 GRADE 60 FY=60,000 P.S.I.
2. ALL MANHOLE FRAME AND COVER ASSEMBLIES SHALL BE EJCO OR OLYMPIC FOUNDRY, WSDOT STYLE #41 WITH THE CITY LOGO STAMPED IN IT, DUCTILE IRON AND MANUFACTURED IN THE U.S.A.
3. ADJUST GRADE RINGS WITH BRICK WEDGES OR GROUT. NO WOOD OR ROCKS SHALL BE USED AS ADJUSTMENT SPACERS.
4. DEVIATION FROM COMPACTION STANDARDS MAY BE APPROVED BY THE DIRECTOR, OR DESIGNEE, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.
5. EXISTING SURFACES PAVED WITH PERMEABLE MATERIALS SHALL BE REPLACED IN-KIND WHERE FEASIBLE IN CONFORMANCE WITH 4B.180 TRENCH BACKFILL AND RESTORATION.

STORM DRAIN MANHOLE LOGO COVER AND FRAME INSTALLATION
N.T.S.



OIL WATER SEPARATOR VAULT ABANDONMENT
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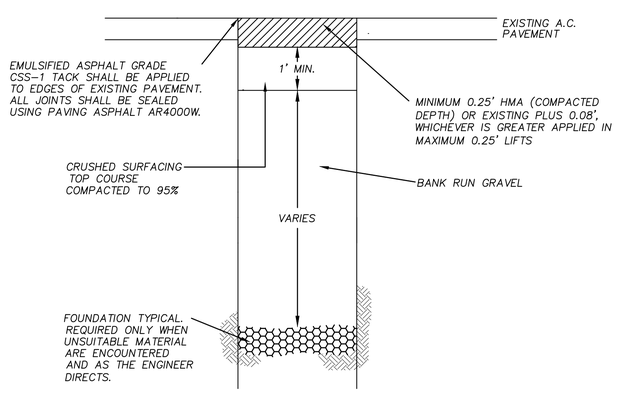

GENERAL NOTES:

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2. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF LACEY STANDARDS.

EXCAVATION RESTORATION
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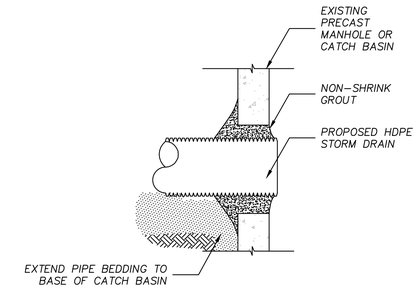

CONNECTION TO EXISTING STRUCTURE
N.T.S.

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

TERI ELIZABETH O'NEAL STATE OF WASHINGTON 24978 REGISTERED PROFESSIONAL ENGINEER 10/4/2023

DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	WOODLAND CREEK OWS

WOODLAND CREEK OIL WATER SEPARATOR DETAIL SHEET

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