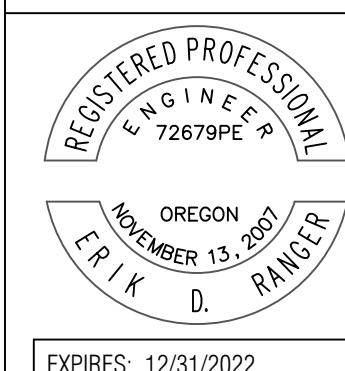


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C.1 COVER SHEET
C.2 HARRISON ST SITE PLAN
C.3 HARRISON ST PLAN & PROFILE
SD.1 STANDARD DETAILS
SD.2 STANDARD DETAILS
SD.3 STANDARD DETAILS
SD.4 STANDARD DETAILS
SD.5 STANDARD DETAILS

	(ELEV.)	EXISTING CONTOUR ELEV.		MANHOLE (MH)
	ELEV.	NEW CONTOUR ELEV.		CURB INLET (CI)
		EXISTING EDGE OF AC OR GRAVEL		CATCH BASIN (CB)
		SAW CUT		CLEANOUT
	P/W	EXISTING RIGHT-OF-WAY		FIRE HYDRANT
	R/W	NEW RIGHT-OF-WAY		VALVE
	SS	EXISTING SANITARY SEWER (SS)		WATER METER
	PS	NEW SANITARY SEWER (SS)		BLOWOFF
	PS	EXISTING PRESSURE SEWER (PS)		POWER POLE
	STS	NEW PRESSURE SEWER (PS)		LIGHT POLE
	STS	EXISTING STORM SEWER (STS)		GUY WIRE
	STS	NEW STORM SEWER (STS)		POWER PEDESTAL
	W	EXISTING WATER		TELEPHONE PEDESTAL
	W	NEW WATER		GAS METER
	PWG	EXISTING POWER (UNDERGROUND)		CABLE TV PEDESTAL
	POW	EXISTING POWER (OVERHEAD)		MAIL BOX
	UGU	NEW UNDERGROUND (TV, POWER, PHONE)		FLOW DIRECTION ARROW
	C	NEW ELECTRICAL CONDUIT		TREE (EVERGREEN)
	GAS	EXISTING GAS		TREE (DECIDUOUS)
	TV	EXISTING CABLE TV		DETAIL REFERENCE
	X	EXISTING FENCE		NEW CONCRETE
	S-F	NEW FENCE		NEW AC PAVEMENT
		SILT FENCE (S-F)		
	TFC	TOP FACE OF CURB		
	BFC	BOTTOM FACE OF CURB		
	AC	ASPHALT		
	CONC	CONCRETE		
	FF	FINISH FLOOR		
	FG	FINISH GRADE		
	OG	ORIGINAL GROUND		

<u>COMPANY</u>	<u>CONTACT</u>	<u>PHONE</u>	<u>FAX</u>
Avista Utilities P.O. Box 1520 Roseburg, OR 97470	Ryan Forsloff Corporate Office	541-440-1162 800-659-4427	541-672-571
Century Link	Christopher J. Silva	541-608-4511	
Charter Communications 575 W. Harrison Roseburg, OR 97470	Red Justice	541-464-6185	541-672-5193
ComSpan 1016 SE Oak Roseburg, OR 97470	Mary Roberts	541-229-2122	541-229-2148
Douglas Fast Net 480 Oakland Ave., NE Roseburg, OR 97470	Todd Way	541-673-4242	
InfoStructure 480 Northeast Oakland Avenue Roseburg, OR 97470	Derrick Sisson	541-585-8647	
Pacific Power 4025 Old Hwy 99 South Roseburg, OR 97470	Shannon Watson Martha Warner	541-679-3671 541-679-3642	541-679-3626
Roseburg, City of, Water Dept. 900 SE Douglas Roseburg, OR 97470	Daryn Anderson	541-492-6885	
RUSA 1297 NE Grandview PO Box 1185 Roseburg, OR 97470	Ryon Kershner	541-672-1551	541-672-7548
Roseburg, City of 900 SE Douglas Roseburg, OR 97470	Brice Perkins	541-492-6730	

LOCATIONS FOR THE GAS, POWER, PHONE, AND CABLE TV UTILITIES WERE DESIGNED AND PROVIDED BY OTHERS. I.E. ENGINEERING DID NOT DESIGN OR OBSERVE THE INSTALLATION OF THESE UTILITIES AND DOES NOT WARRANT THE "AS-BUILT" CONDITION, LOCATION, OR MAPPING ACCURACY REGARDING SUCH UTILITIES.



MATERIALS CONTAINING ASBESTOS MAY BE PRESENT IN UNDERGROUND PIPE SYSTEMS. ALL APPROPRIATE FEDERAL, STATE, COUNTY AND MUNICIPAL RULES, REGULATIONS AND GUIDELINES MUST BE FOLLOWED WHEN WORKING WITH ASBESTOS-CONTAINING MATERIAL. NONFRIABLE MATERIAL MUST BE HANDLED, TRANSPORTED AND DISPOSED IN A MANNER THAT PREVENTS FIBERS FROM COMING FORTH AND RELEASE ASBESTOS FIBERS. FRIABLE MATERIAL, SHATTERED DAMAGED OR BADLY WEATHERED, MUST BE CONSIDERED TO BE TRIABLE AND LIKELY RELEASE ASBESTOS FIBERS. DEQ LICENSED ASBESTOS ABATEMENT CONTRACTOR USING DEQ CERTIFIED WORKERS MUST REMOVE ALL FRIABLE ASBESTOS MATERIAL. ANY AND ALL PERMITS AND FEES THAT ARE REQUIRED BY THE DEQ, DOUGLAS, COUNTY AND ANY OTHER REGULATORY AGENCY MUST BE OBTAINED BY THE CONTRACTOR. FOR MORE INFORMATION ABOUT ASBESTOS RULES, CONTACT THE DEQ WESTERN REGION OFFICE IN MEDFORD, OREGON.

HARRISON - HARVARD ST STS IMPR

9900 SE DOUGLAS AVE
ROSEBURG, OR 97470

COVER SHEET

SCALE: NONE

JANUARY 24, 2021

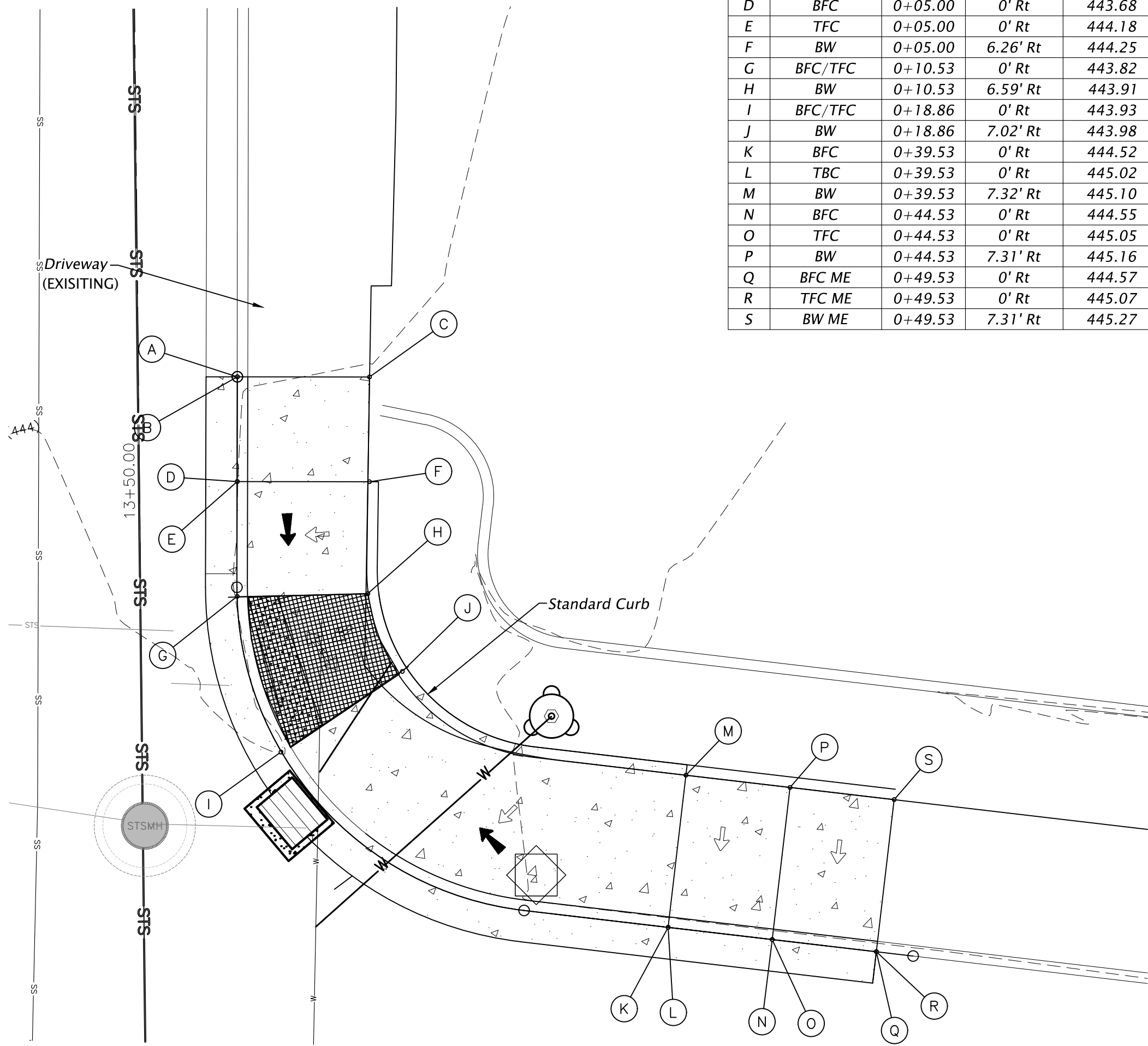
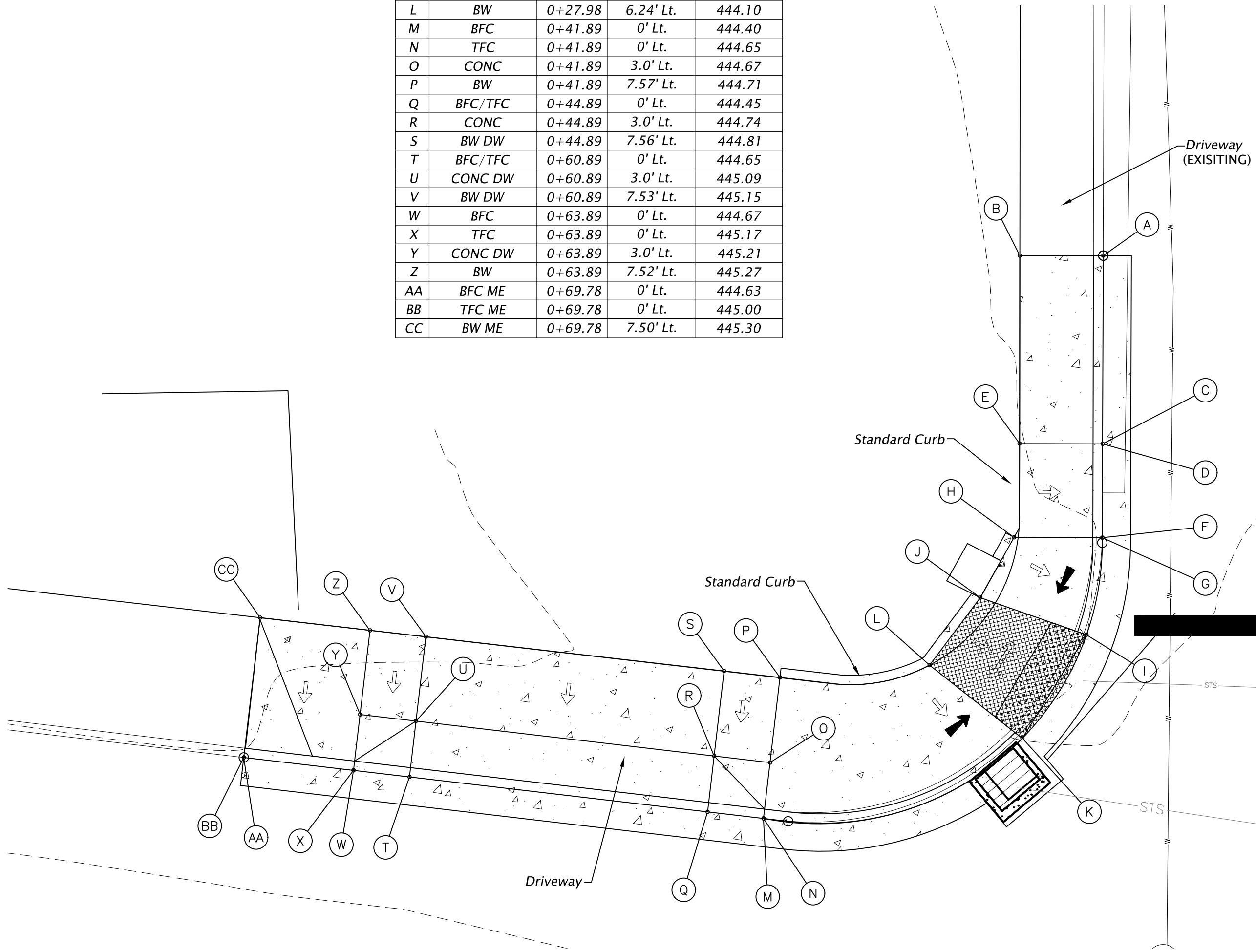
SSJF: FOR BID

C.1

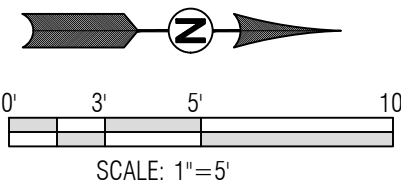
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 OAR 952-001-0010 THROUGH
 OAR 952-001-0090

POINTS TABLE				
Pt.	DESCRIPTION	STATION	OFFSET	ELEVATION
A	BFC/TFC ME	0+00.00	0' Lt.	443.44
B	BW DW ME	0+00.00	4.44' Lt.	443.90
C	BFC	0+10.03	0' Lt.	443.55
D	TFC	0+10.03	0' Lt.	444.05
E	BW	0+10.03	4.42' Lt.	444.10
F	BFC	0+15.03	0' Lt.	443.70
G	TFC	0+15.03	0' Lt.	444.20
H	BW	0+15.03	4.70' Lt.	444.23
I	BFC/TFC	0+20.31	0' Lt.	443.95
J	BW	0+20.31	6.0' Lt.	444.03
K	BFC/TFC	0+26.85	0' Lt.	444.01
L	BW	0+27.98	6.24' Lt.	444.10
M	BFC	0+41.89	0' Lt.	444.40
N	TFC	0+41.89	0' Lt.	444.65
O	CONC	0+41.89	3.0' Lt.	444.67
P	BW	0+41.89	7.57' Lt.	444.71
Q	BFC/TFC	0+44.89	0' Lt.	444.45
R	CONC	0+44.89	3.0' Lt.	444.74
S	BW DW	0+44.89	7.56' Lt.	444.81
T	BFC/TFC	0+60.89	0' Lt.	444.65
U	CONC DW	0+60.89	3.0' Lt.	445.09
V	BW DW	0+60.89	7.53' Lt.	445.15
W	BFC	0+63.89	0' Lt.	444.67
X	TFC	0+63.89	0' Lt.	445.17
Y	CONC DW	0+63.89	3.0' Lt.	445.21
Z	BW	0+63.89	7.52' Lt.	445.27
AA	BFC ME	0+69.78	0' Lt.	444.63
BB	TFC ME	0+69.78	0' Lt.	445.00
CC	BW ME	0+69.78	7.50' Lt.	445.30

POINTS TABLE				
Pt.	DESCRIPTION	STATION	OFFSET	ELEVATION
A	BFC ME	0+00.00	0' Rt	443.51
B	TFC ME	0+00.00	0.0' Rt	443.98
C	BW ME	0+00.00	6.30' Rt	443.03
D	BFC	0+05.00	0' Rt	443.68
E	TFC	0+05.00	0' Rt	444.18
F	BW	0+05.00	6.26' Rt	444.25
G	BFC/TFC	0+10.53	0' Rt	443.82
H	BW	0+10.53	6.59' Rt	443.91
I	BFC/TFC	0+18.86	0' Rt	443.93
J	BW	0+18.86	7.02' Rt	443.98
K	BFC	0+39.53	0' Rt	444.52
L	TBC	0+39.53	0' Rt	445.02
M	BW	0+39.53	7.32' Rt	445.10
N	BFC	0+44.53	0' Rt	444.55
O	TFC	0+44.53	0' Rt	445.05
P	BW	0+44.53	7.31' Rt	445.16
Q	BFC ME	0+49.53	0' Rt	444.57
R	TFC ME	0+49.53	0' Rt	445.07
S	BW ME	0+49.53	7.31' Rt	445.27



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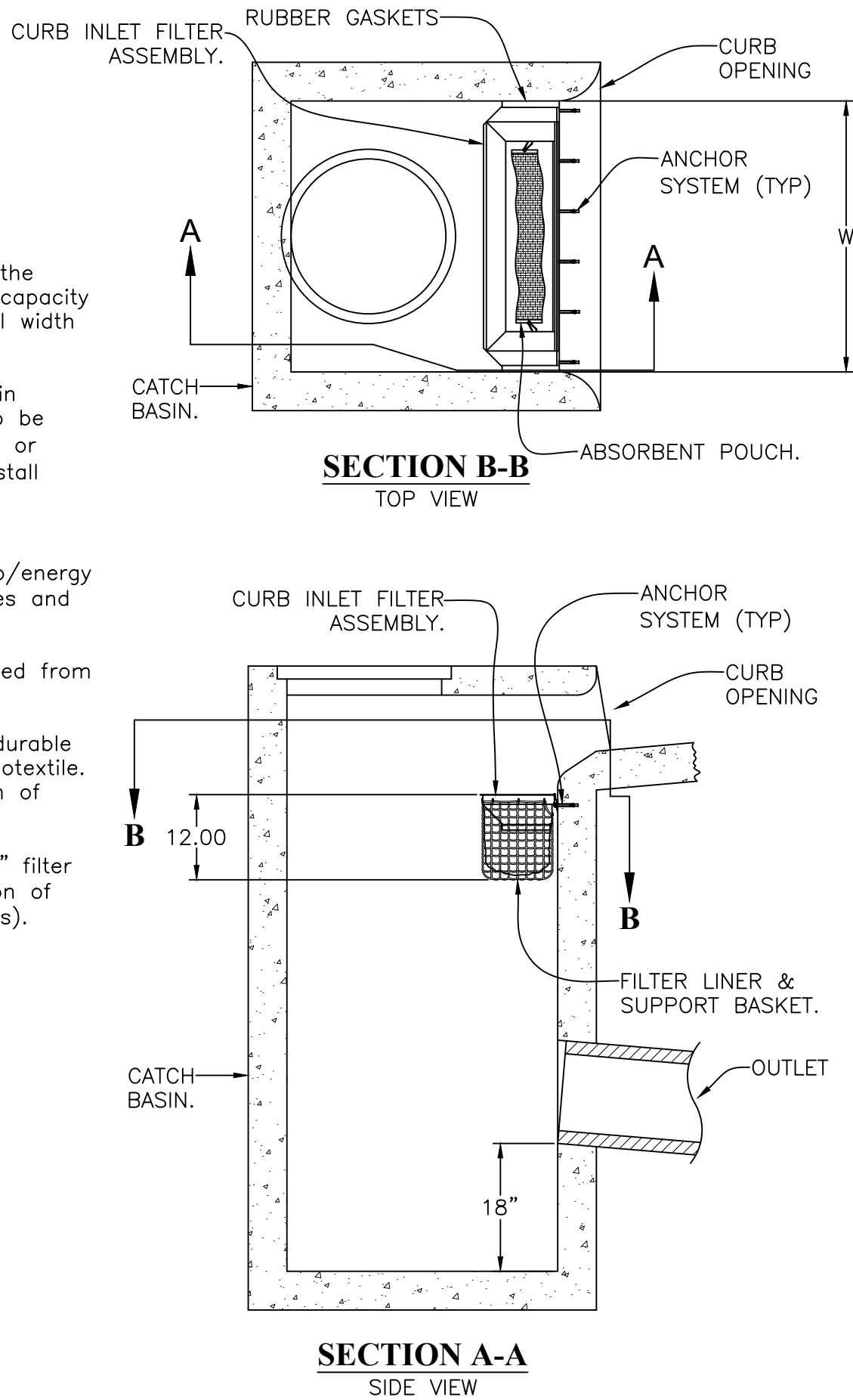
Rev.	Date	Dwg	Description

HARRISON - HARVARD ST STS IMPR
900 SE DOUGLAS AVE
ROSEBURG, OR 97470
ADA RAMP DETAILS
JANUARY 24, 2021
ISSUE FOR BID
PROJECT NO. 0149-214
DRW: DTW
CHK: EDR
Z:_085\0149-City of Roseburg\149-214-Harvard-Harrison Storm\DESIGN\EXHIBITS\CAD\0149-214-C-revised.dwg

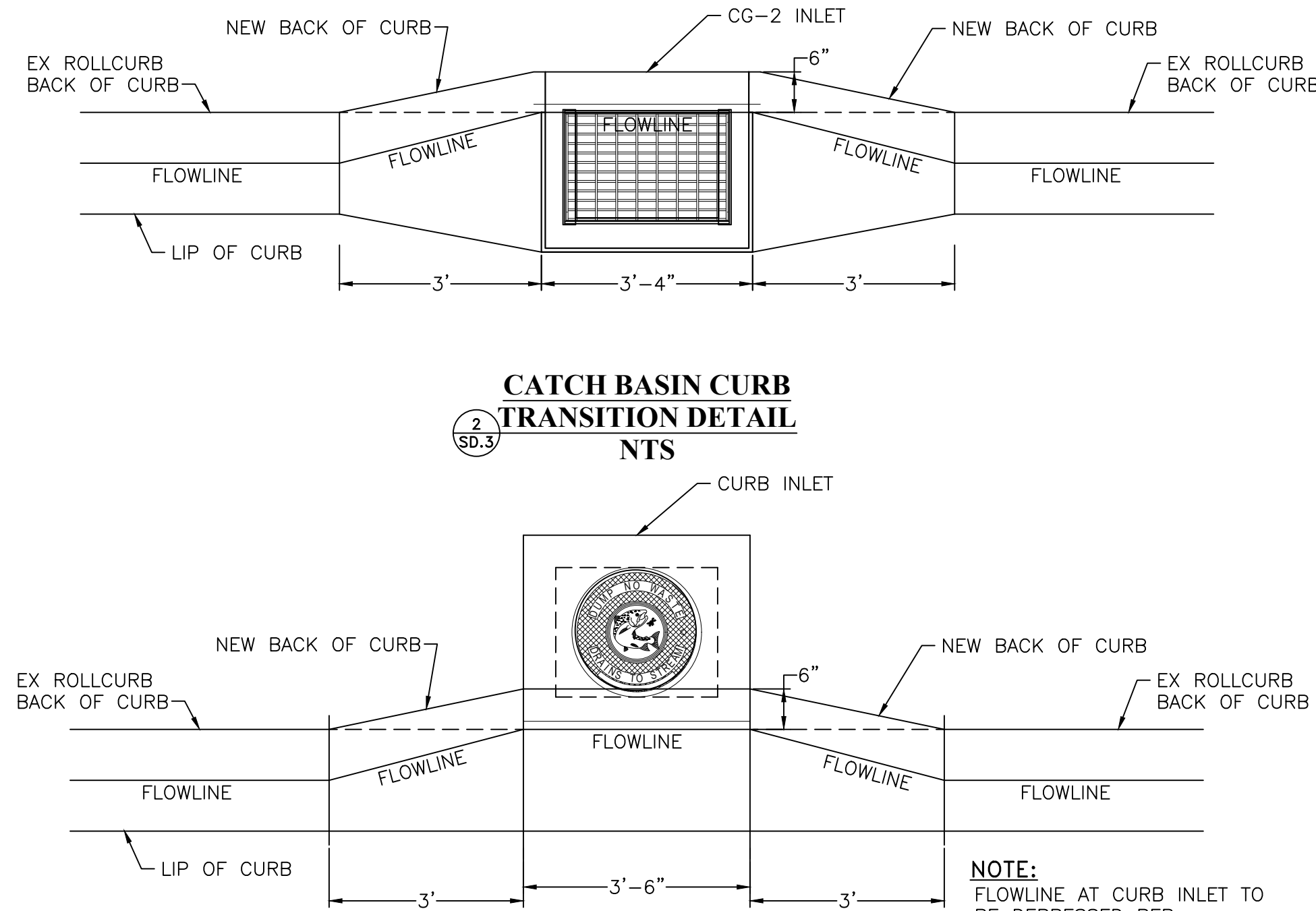
C.3

NOTES:

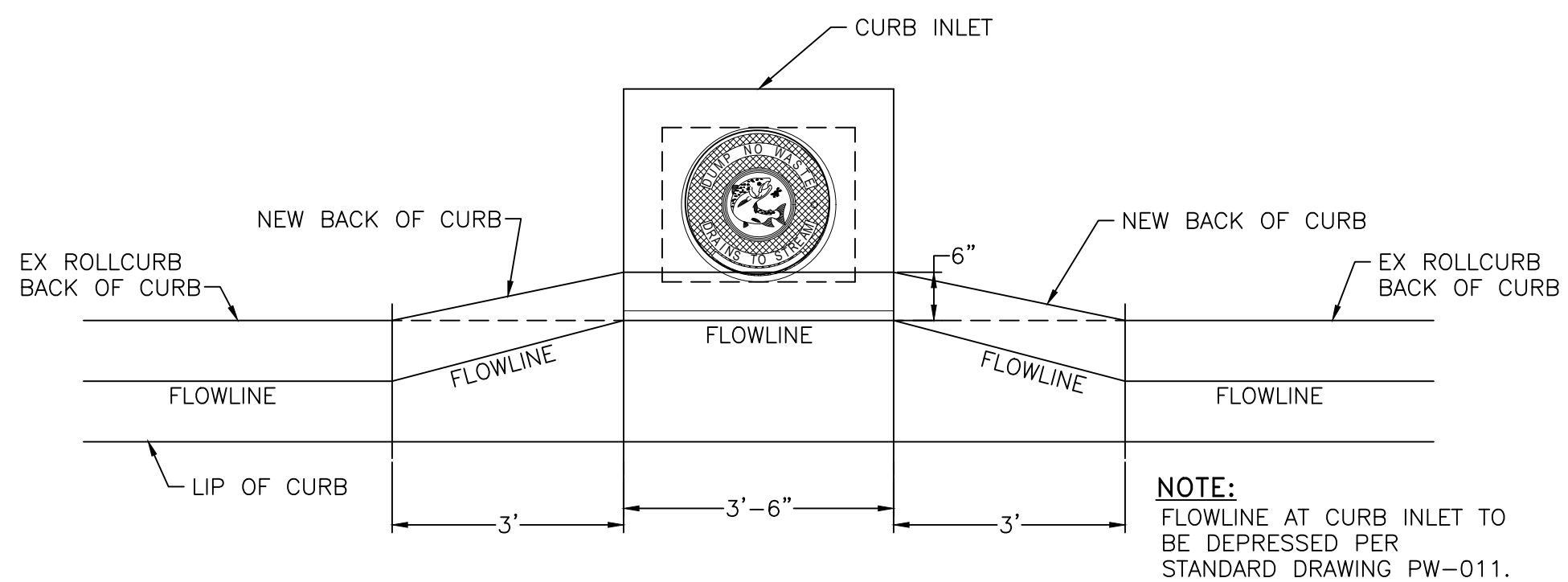
- Filter inserts shall be installed across the entire width of curb opening. Storage capacity and clean flow rates are based on full width installation.
- Filter insert shall be attached with resin bonded anchor system. All hardware to be stainless steel. Use 3/8" threaded rods or bolts. Min. embedment depth= 2 1/2". Install anchor system per manufacturer's recommendation.
- Inserts are designed with a debris trap/energy dissipator for the retention of floatables and collected sediments.
- Filter support frame shall be constructed from stainless steel Type 304.
- Filter liner shall be constructed from durable polypropylene, woven, monofilament, geotextile. Filter liner shall not allow the retention of water between storm events.
- Filter inserts are supplied with "clip-in" filter pouches for the collection and retention of petroleum hydrocarbons (oils & greases).



TYPICAL WATER QUALITY
CURB INLET FILTER INSERT DETAIL
NTS
SD.3

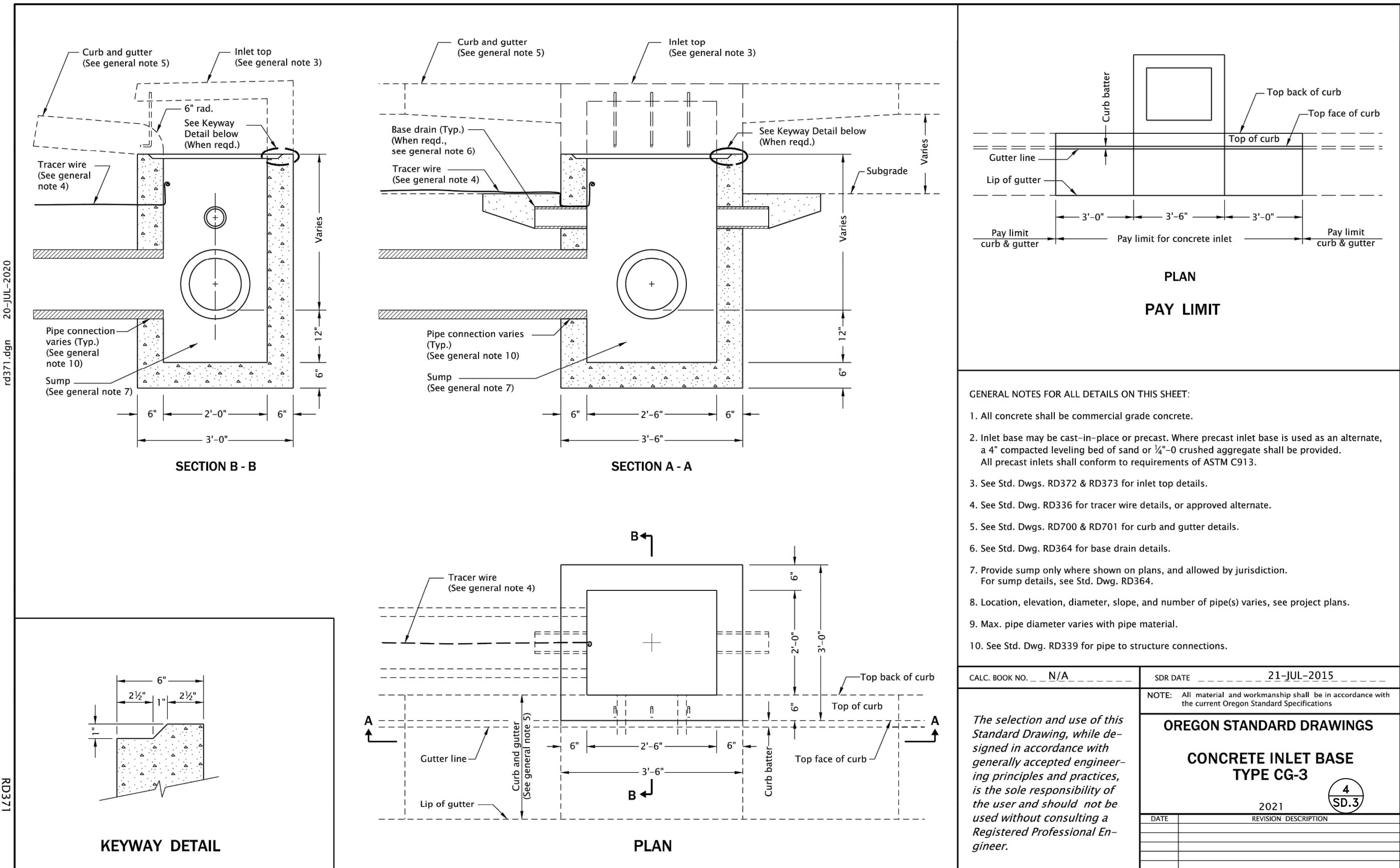


CATCH BASIN CURB
TRANSITION DETAIL
NTS
SD.3



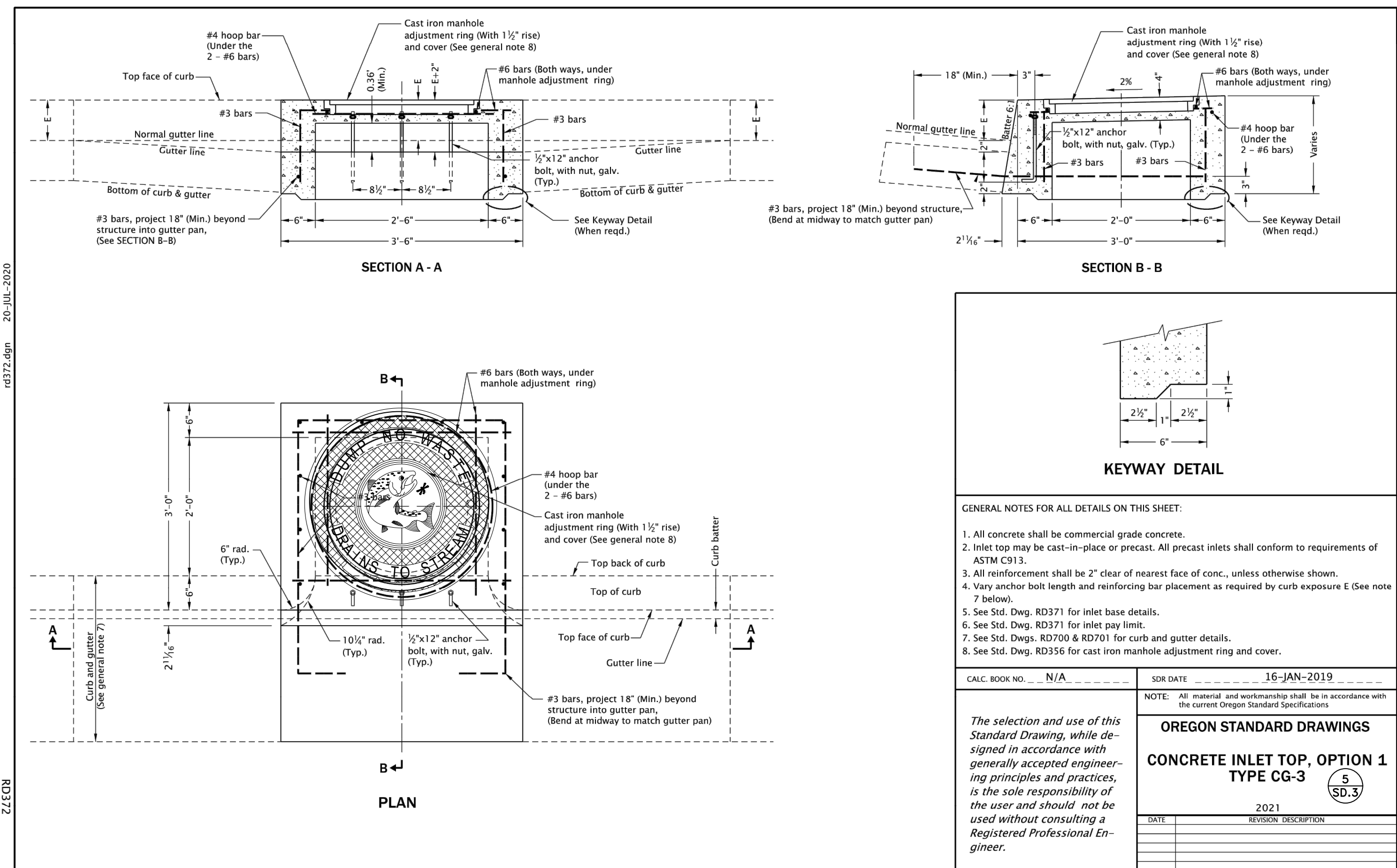
CURB TRANSITION DETAIL
NTS
SD.3

NOTE:
FLOWLINE AT CURB INLET TO
BE DEPRESSED PER
STANDARD DRAWING PW-011.



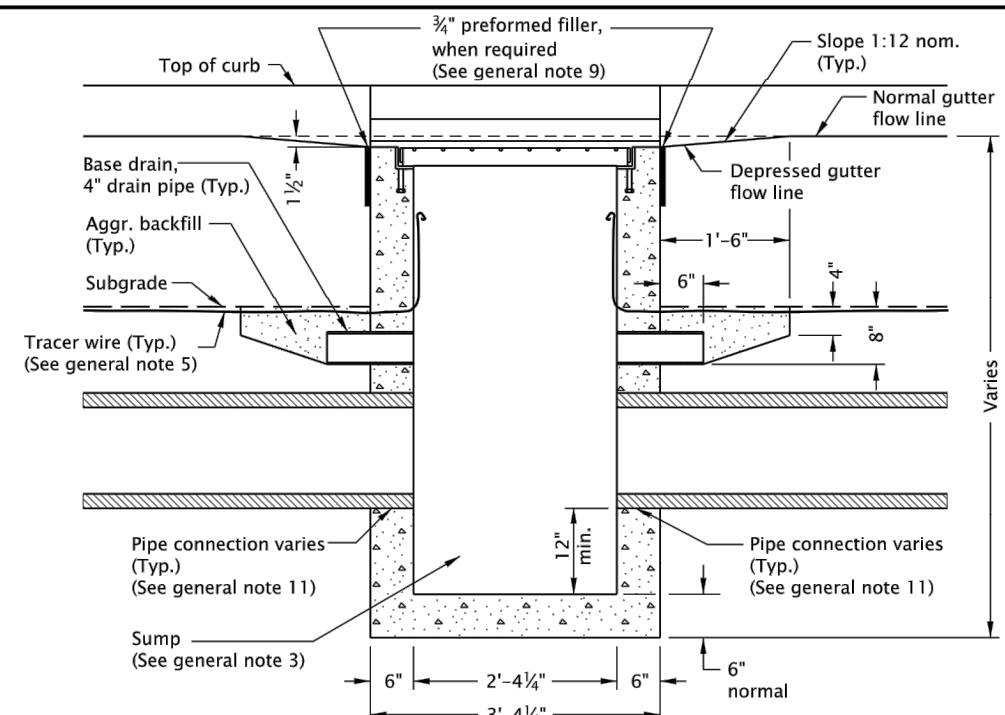
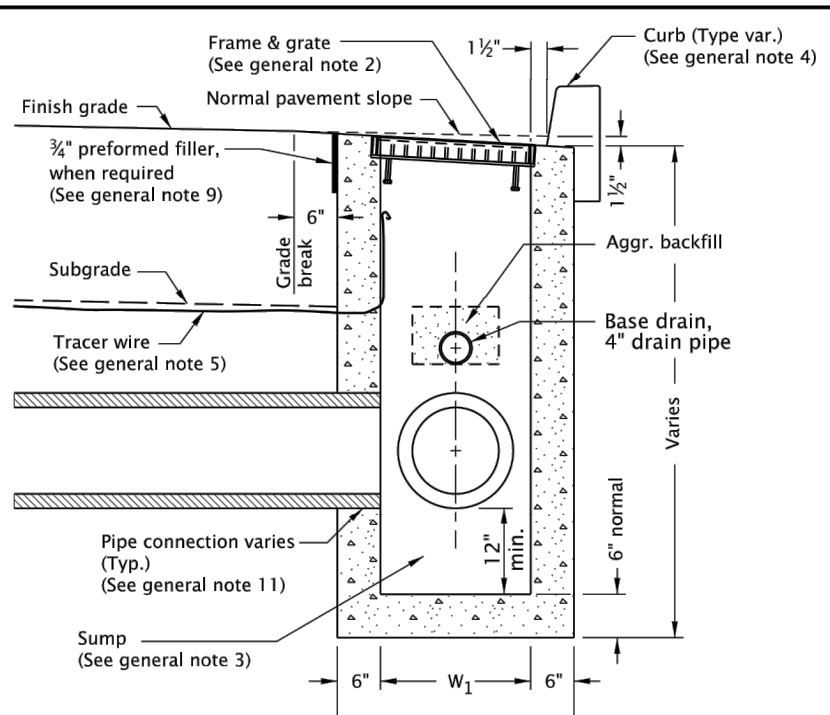
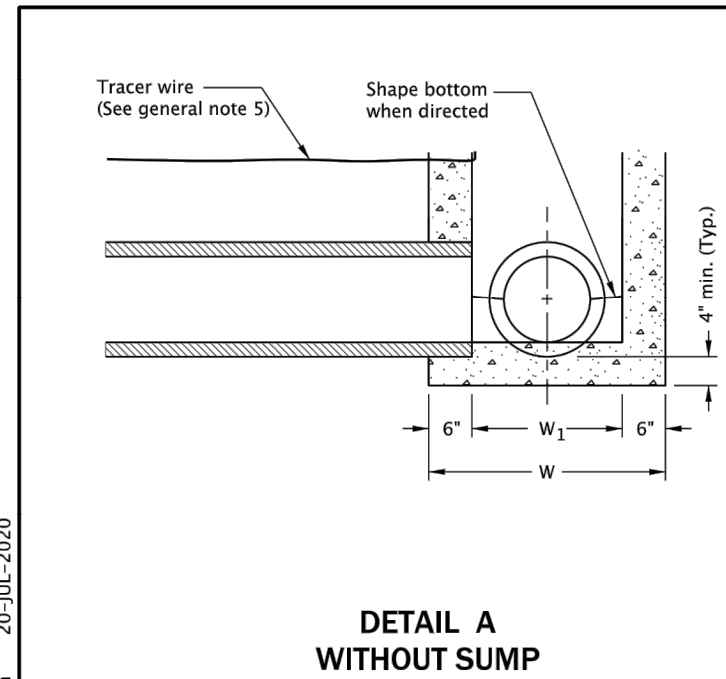
Effective Date: December 1, 2020 - May 31, 2021

RD371



Effective Date: December 1, 2020 - May 31, 2021

RD372



DETAIL A
WITHOUT SUMP

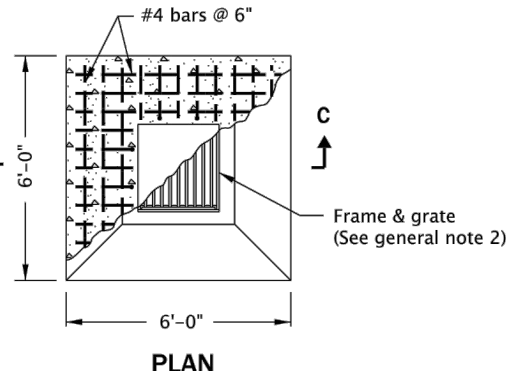
SECTION B - B

SECTION A - A

INLET TYPE	W	W ₁
G-1	2'-8 1/2"	1'-8 1/2"
G-2, G-2M, G-2MA	3'-3 1/2"	2'-3 1/2"

SECTION C-C

NOTE:
All reinforcement to be placed 2" clear of nearest face of concrete unless shown or noted otherwise



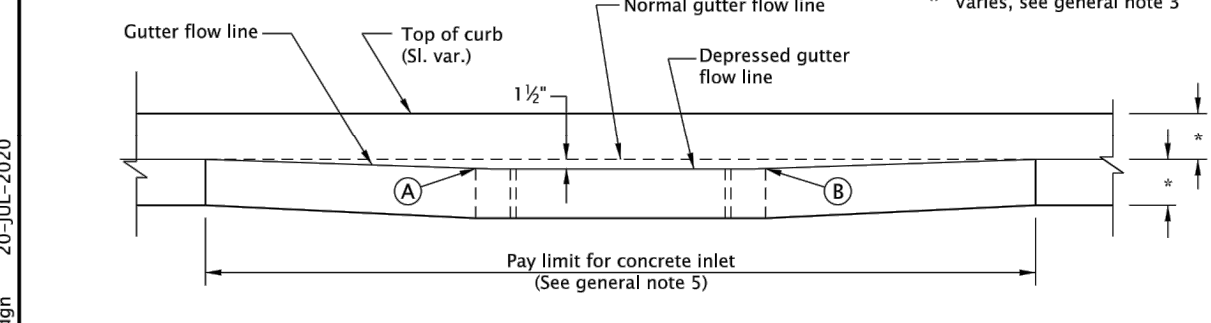
PLAN
TYPE G-2MA

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
- Where precast inlets are used as an alternate to cast-in-place inlets, a 4" compacted leveling bed of sand or 1/2"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
 - Graphics show G-1 inlet with Type 2 grate. See Table A for inlet dimensions. Type 1 grate allowed only in locations not subject to bicycle or pedestrian use. For frame and grate details, see Std. Dwg. RD365.
 - Provide sump only where shown on plans, and allowed by jurisdiction. See Detail A for inlet without sump.
 - For curb details, see Std. Dwg. RD700 & RD701.
 - See Std. Dwg. RD336 for tracer wire details, or approved alternate.
 - Max. pipe diameter varies with pipe material.
 - Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
 - All concrete shall be commercial grade concrete.
 - 1/2" preformed filler (in concrete pavement or gutter only) to extend through thickness of concrete.
 - See Std. Dwg. RD363 for gutter transition section, when curb and gutter are required.
 - See Std. Dwg. RD339 for pipe to structure connections.

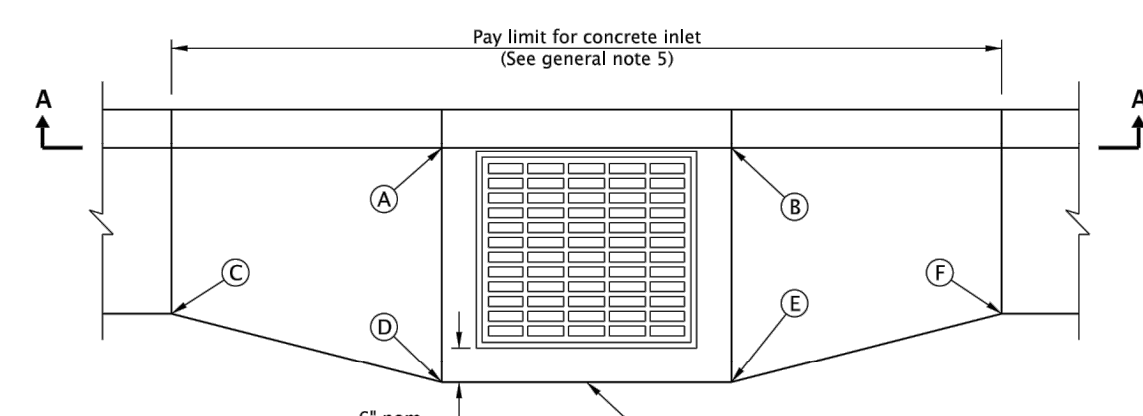
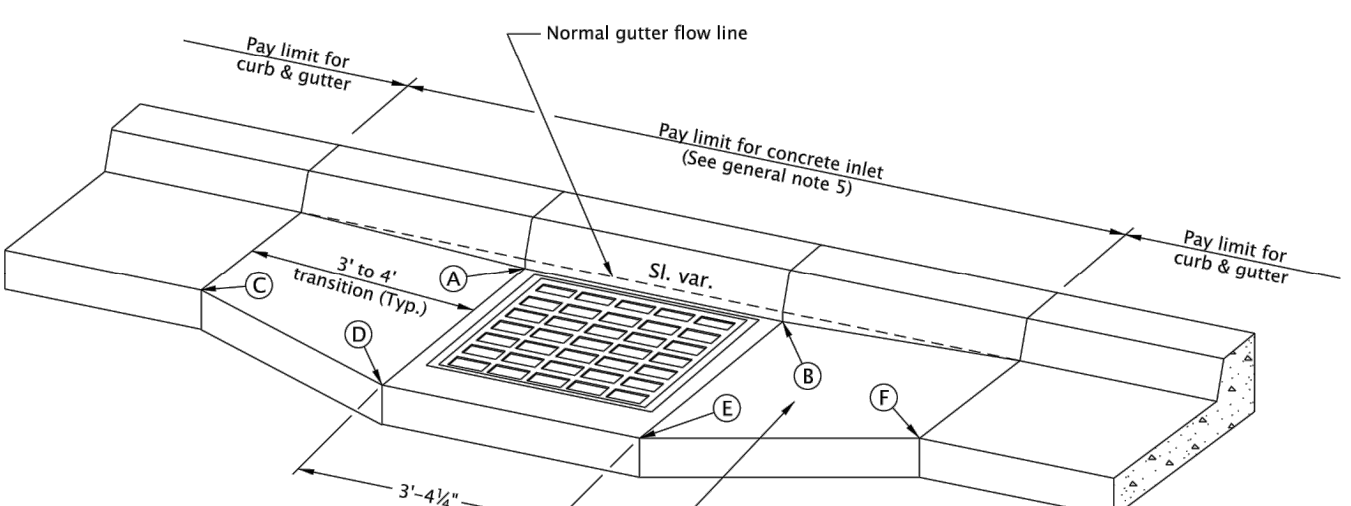
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

Effective Date: December 1, 2020 – May 31, 2021

RD364



SECTION A-A



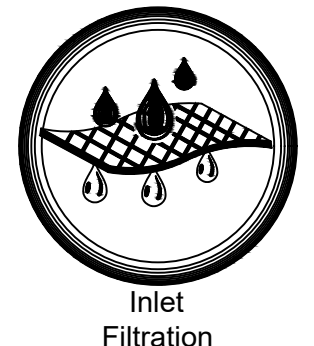
PLAN VIEW

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
- For inlet details, see appropriate inlet standard drawings(s).
 - For frame and grate details, see Std. Dwg. RD365.
 - For curb details, see Std. Dwg. RD700 & RD701.
 - All concrete shall be commercial grade concrete.
 - Pay limit for inlet is expanded when curb and gutter are monolithic.

CALC. BOOK NO. - N/A	SDR DATE - 21-JUL-2015
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
OREGON STANDARD DRAWINGS	
GUTTER TRANSITION AT INLET	
DATE	REVISION DESCRIPTION
2021	

Effective Date: December 1, 2020 – May 31, 2021

RD363

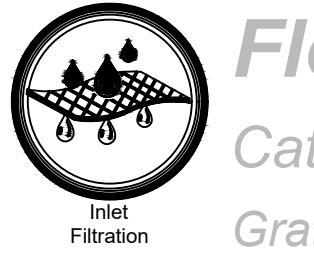
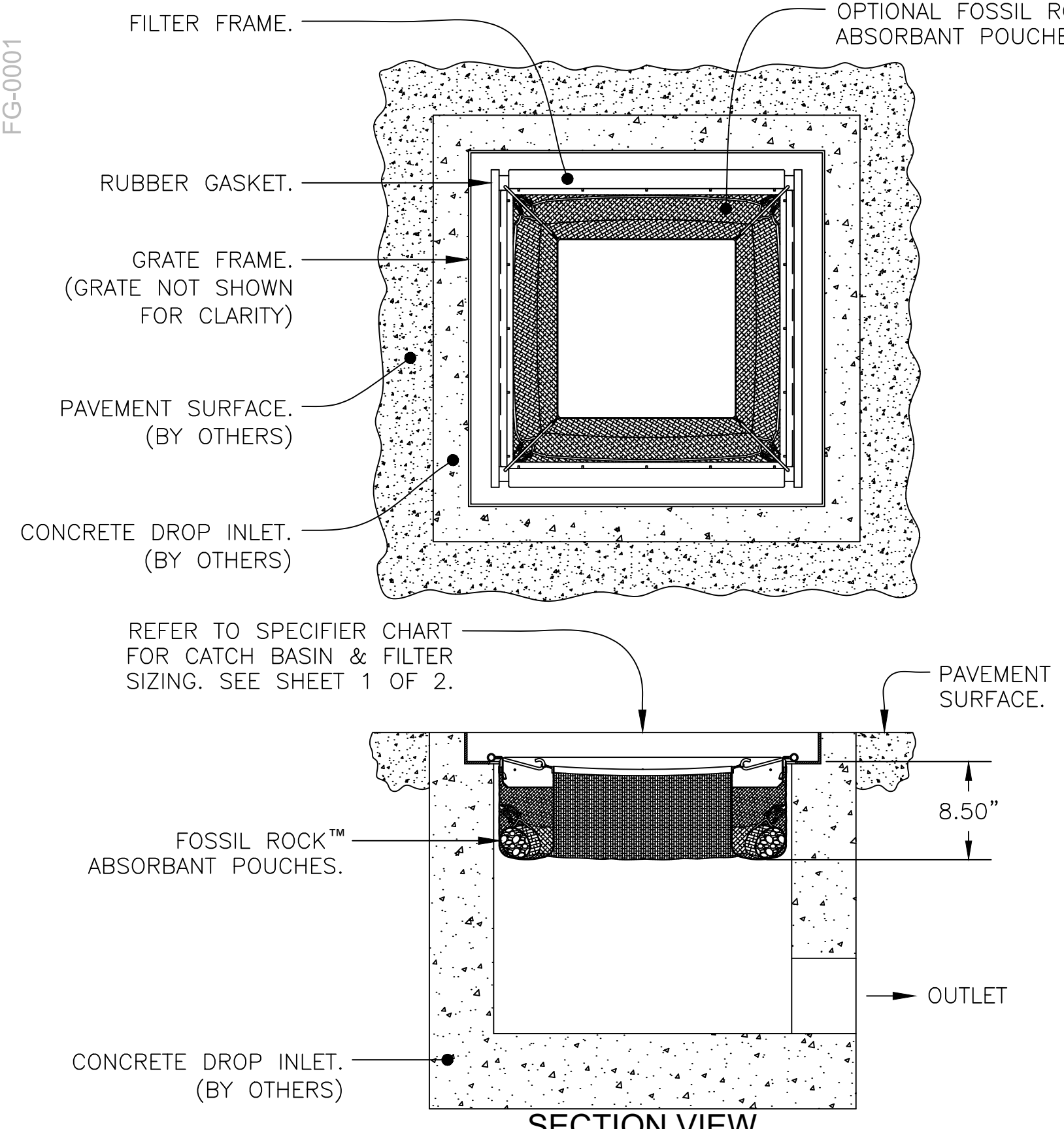


FloGard®
Catch Basin Insert Filter
Shallow Catch Basin Style



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DRAWING NO. REV ECO ECO-0142 DATE JPR 7/13/16 JPR 12/18/06 SHEET 1 OF 2
FG-LP-0001 F

FG-0001



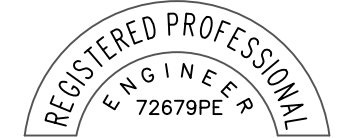
FloGard®
Catch Basin Insert Filter
Grated Inlet Style



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DRAWING NO. REV ECO ECO-0142 DATE JPR 7/13/16 JPR 12/18/06 SHEET 2 OF 2
FG-0001 E

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NOVEMBER 13, 2009

EXPIRES: 12/31/2022

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Description

Dwg

Date

Rev.

HARRISON - HARVARD ST STS IMPR

PROJECT NO. 0149-214
DRAW: DTW
CHK: EDR

STANDARD DETAILS
SCALE: NONE
JANUARY 24, 2021
ISSUE FOR BID

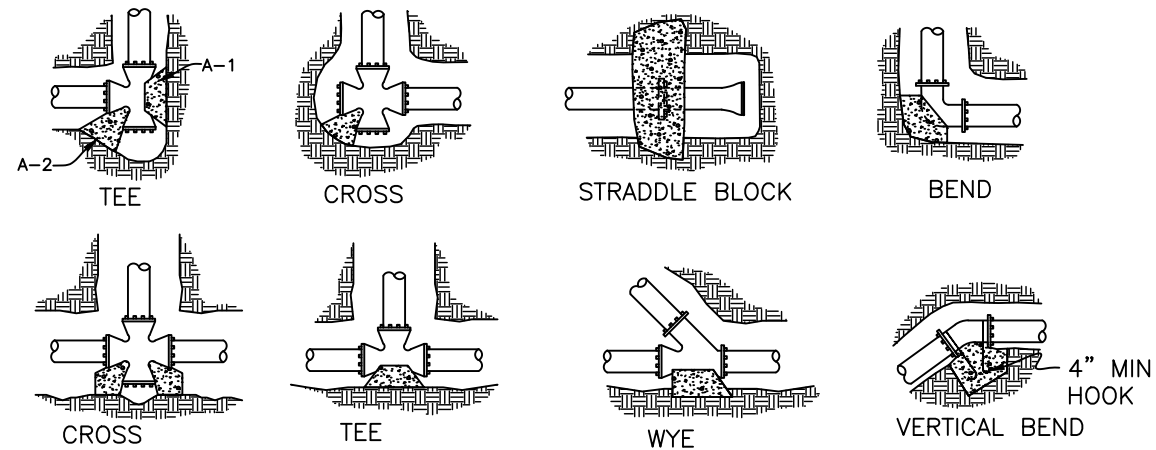
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SD.4

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OAR 952-001-0090

(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET										(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS				
FITTING SIZE	TEE, WYE, DEAD END & HYDRANT	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND		
4	1.0	1.6	1.4	A-1	A-2	1.0	---	---	---	---	---	---	---	---
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	---	1.3	---	---	---	---	---
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	---	---	---	---
10	5.9	10.2	8.4	11.8	8.4	4.6	2.4	1.2	3.7	1.8	---	---	---	---
12	8.5	14.7	12.0	17.0	12.0	6.6	3.4	1.7	5.5	2.8	1.2	---	---	---
14	11.5	---	---	16.3	23.0	16.3	8.9	4.6	2.3	7.6	3.9	1.7	---	---
16	15.0	26.1	21.3	30.0	21.3	11.6	6.0	3.0	9.9	5.1	2.3	0.9	---	---
18	19.0	---	---	27.0	38.0	27.0	14.6	7.6	3.8	---	---	---	---	---
20	23.5	40.8	33.3	47.0	33.3	18.1	9.4	4.7	---	---	---	---	---	---
24	34.0	58.8	48.0	68.0	48.0	26.2	13.6	6.8	---	---	---	---	---	---

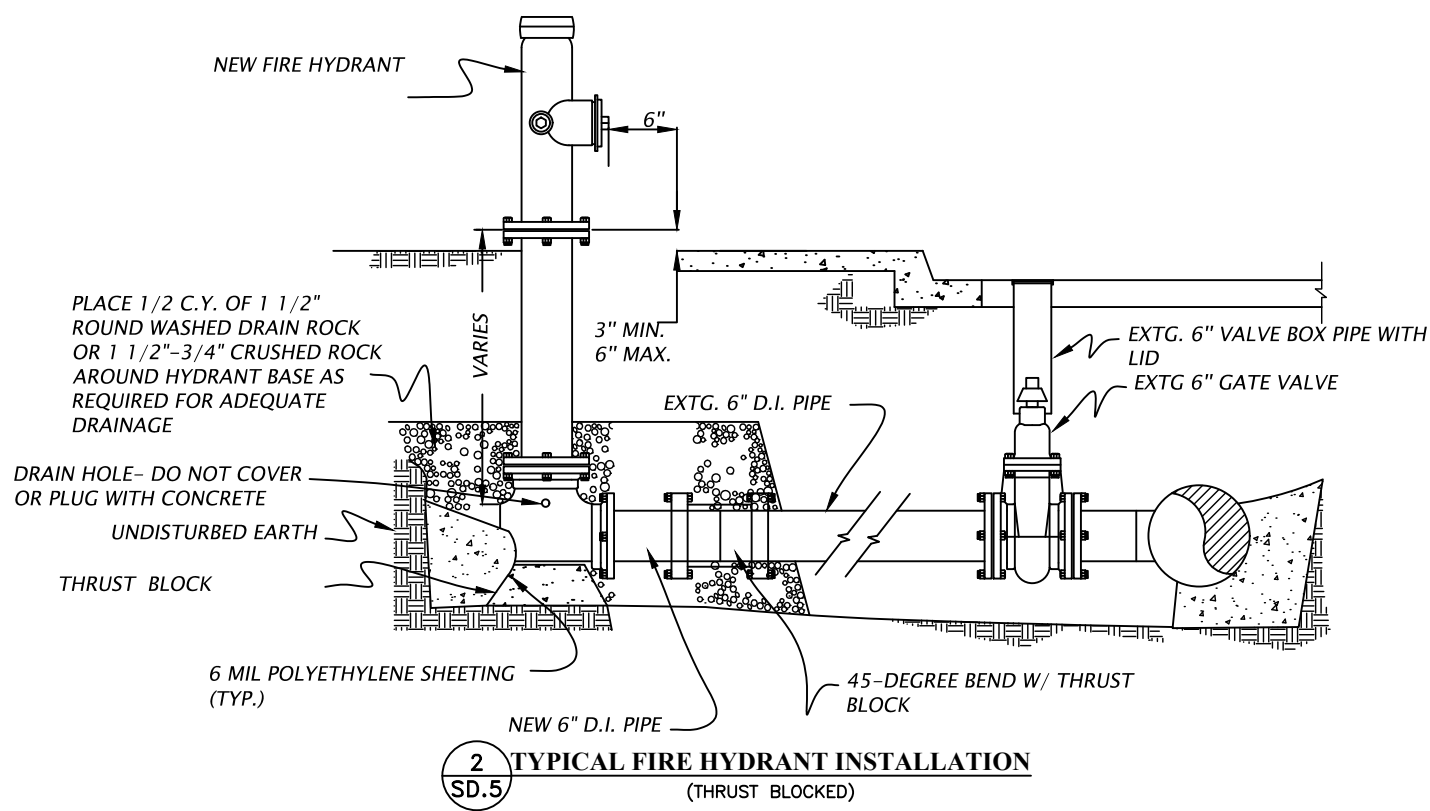
- NOTES:
1. ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
BEARING AREA = (TEST PRESSURE / 150) x (2000 / SOIL BEARING STRESS) x (TABLE VALUE)
2. ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:
VOLUME = (TEST PRESSURE / 150) x (TABLE VALUE)



RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

- NOTES:
1. CITY OF SUTHERLIN TEST PRESSURE IS 150 MIN PSI OR 1½x STATIC PRESSURE.
2. THRUSTING OF BEARING AREA TO BE DONE USING CHARTS FORMULA ABOVE. SOIL STRESS BEARING IS BASED ON FITTING LOCATION AND FIELD OBSERVATION.
3. CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
4. ALL CONCRETE TO BE CLASS 2500 MINIMUM. INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
5. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
6. TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

THRUST BLOCK DETAIL



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Description

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Date

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800 SE DOUGLAS AVE
ROSEBURG, OR 97470

STANDARD DETAILS

SCALE: NONE

JANUARY 24, 2021

ISSUE FOR BID

PROJECT NO. 0149-214

DRW: DTW

CHK: EDR

Z:_085\0149-City of Roseburg\49-214-Harvard-Harrison Storm\DESIGN\EXHIBITS\CADD\0149-214-C-BEL_REISED_BSS04.dwg

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