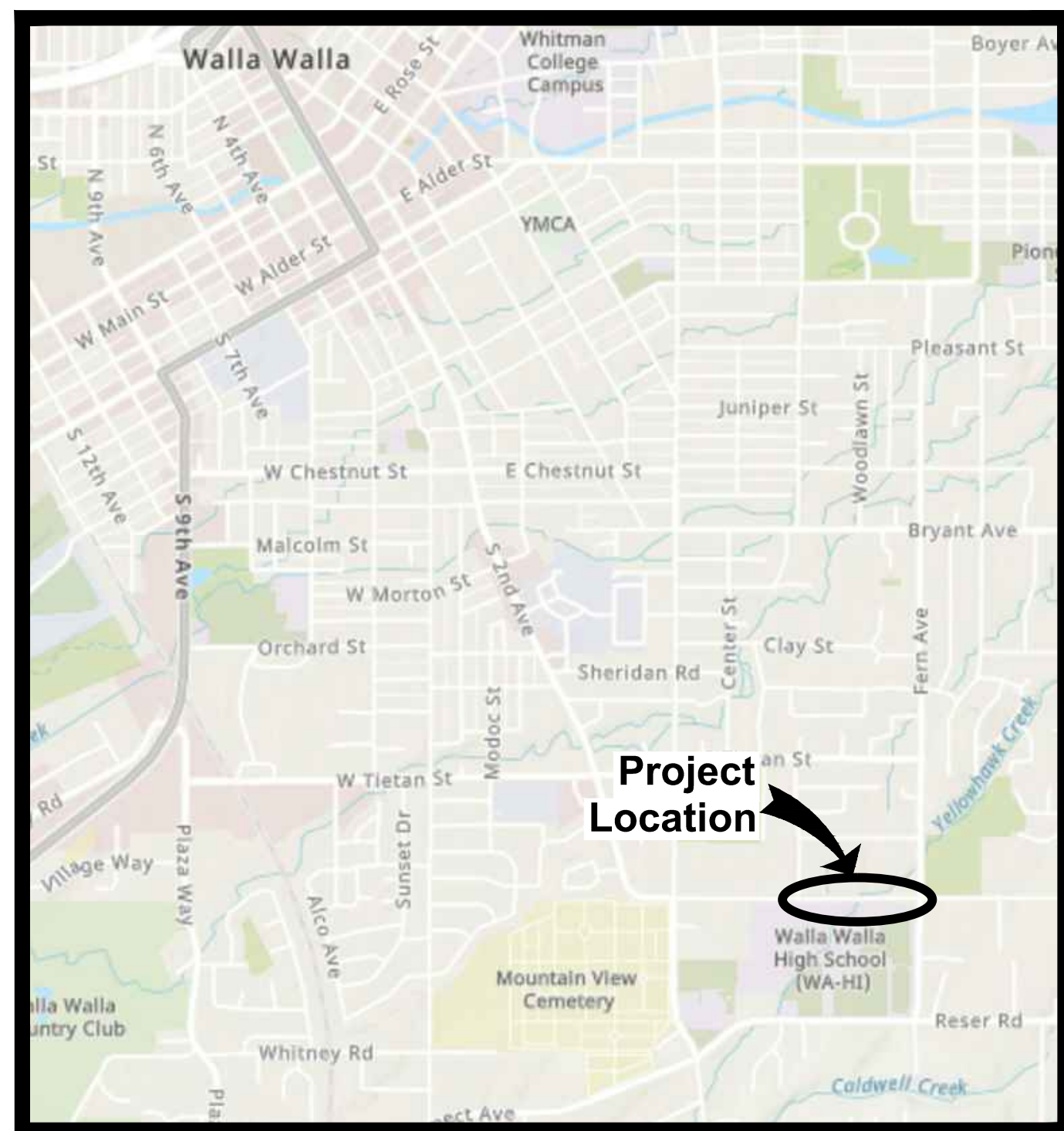
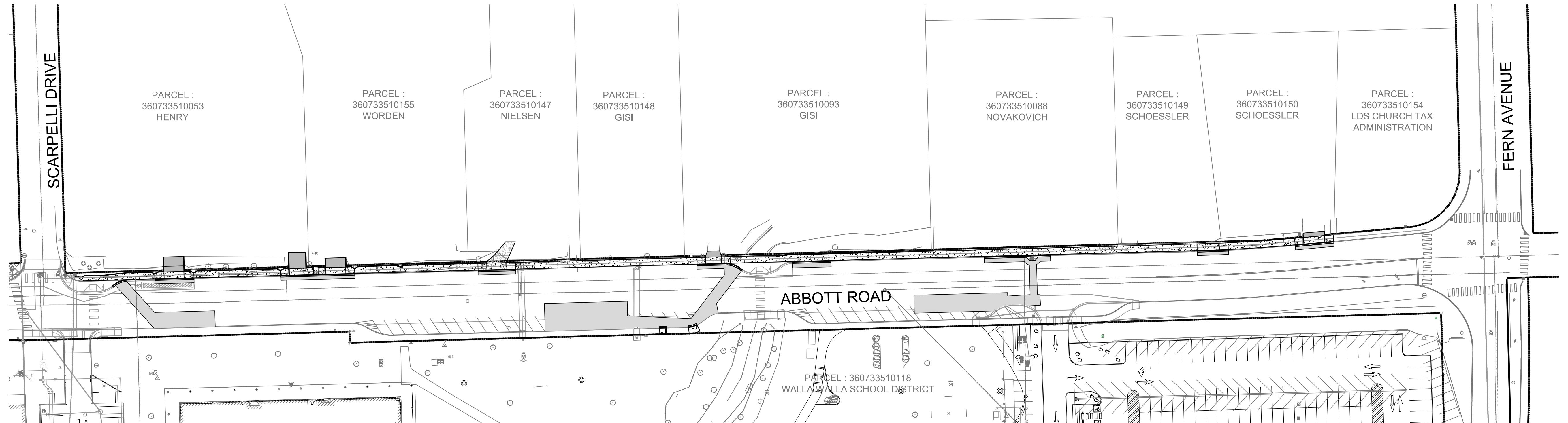


# WALLA WALLA COUNTY PUBLIC WORKS

## ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS

LOCATED IN SEC. 33, T.7 N., R.36 E., W.M.



VICINITY MAP  
NOT TO SCALE

### PROJECT BENCHMARK:

BASIS OF BEARINGS:  
N88°26'39"E BETWEEN THE 1/4" PIN IN 2" PIPE IN CASE AT THE CENTER OF THE NORTHWEST QUARTER OF SECTION 33 AND THE 1/4" REBAR SET AT SURFACE AT THE NORTH CENTER CORNER OF SECTION 33  
CITY OF WALLA WALLA GIS WHICH IS BASED ON WASHINGTON COORDINATE SYSTEM SOUTH ZONE US SURVEY FEET NAD 83 2011 EPOCH 2010.

VERTICAL DATUM:  
CITY OF WALLA WALLA GIS NGVD 1988  
CONTOURS SHOWN HEREON WERE DERIVED FROM FIELD DATA COLLECTED USING RTK GPS AND TRIMBLE S6 ROBOTIC TOTAL STATION.

### WALLA WALLA COUNTY PUBLIC WORKS DETAIL STATEMENT:

ALL MATERIALS AND METHODS OF CONSTRUCTION AND INSTALLATION FOR STREET FACILITIES AND EROSION CONTROL MEASURES, SHALL CONFORM TO WALLA WALLA COUNTY PUBLIC WORKS "CONTY ROAD DESIGN STANDARDS." CONSTRUCTION SHALL BE AS PER THE MOST CURRENT STANDARD DETAIL CONTAINED THEREIN.

### INADVERTENT DISCOVERY

IN THE EVENT ANY ARCHAEOLOGICAL OR HISTORIC MATERIALS ARE ENCOUNTERED DURING PROJECT ACTIVITY, WORK IN THE IMMEDIATE AREA (INITIALLY ALLOWING FOR A 100' BUFFER; THIS NUMBER MAY VARY BY CIRCUMSTANCES) MUST STOP AND THE FOLLOWING ACTIONS TAKEN:

1. IMPLEMENT REASONABLE MEASURES TO PROTECT THE DISCOVERY SITE, INCLUDING ANY APPROPRIATE STABILIZATIONS OR COVERING; AND
2. TAKE REASONABLE STEPS TO INSURE THE CONFIDENTIALITY OF THE DISCOVERY SITE; AND,
3. TAKE REASONABLE STEPS TO RESTRICT ACCESS TO THE SITE OF DISCOVERY.

THE PROJECT PROPONENT WILL NOTIFY THE CONCERNED TRIBES AND ALL APPROPRIATE COUNTY, STATE, AND FEDERAL AGENCIES, INCLUDING THE DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION. THE AGENCIES AND TRIBE(S) WILL DISCUSS POSSIBLE MEASURES TO REMOVE OR AVOID CULTURAL MATERIAL, AND WILL REACH AN AGREEMENT WITH THE PROJECT PROPONENT REGARDING ACTIONS TO BE TAKEN AND DISPOSITION OF MATERIAL.

IF ANY CULTURAL RESOURCES AND OR HUMAN REMAINS ARE DISCOVERED IN THE COURSE OF UNDERTAKING THE DEVELOPMENT ACTIVITY, THE WASHINGTON STATE DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION (DAHP) OFFICE SHALL BE NOTIFIED. FAILURE TO COMPLY WITH STATE REQUIREMENTS MAY RESULT IN CRIMINAL PENALTIES.

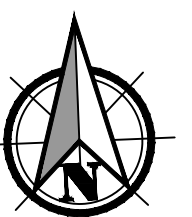
Sheet Index		
Sheet No.	Sheet ID	Description
1	G001	COVER SHEET
2	G002	SUMMARY OF QUANTITIES
3	G003	LEGEND
4	C001	EXISTING CONDITIONS
5	C101	EROSION CONTROL AND SITE PREPARATION PLAN
6	C102	EROSION CONTROL AND SITE PREPARATION PLAN
7	C201	SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN
8	C202	SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN
9	C203	SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN
10	C301	COUNTY STANDARD DETAILS
11	C302	CITY STANDARD DETAILS
12	C303	WSDOT DETAILS
13	C304	WSDOT DETAILS
14	C305	WSDOT DETAILS
15	C306	MISCELLANEOUS DETAILS
16	C307	MISCELLANEOUS DETAILS
17	C308	STORMWATER GALLERY DETAILS
18	C309	STORMWATER GALLERY DETAILS
19	T1	TRAFFIC CONTROL PLAN FULL ROAD CLOSURE
20	T2	TRAFFIC CONTROL PLAN LANE CLOSURE WITH FLAGGERS

### CONTACT INFO:

Owner/Applicant:  
**Walla Walla Public Works**  
990 Navion Ln.  
Walla Walla, WA 99362  
County Engineer  
**Seth Walker, PE**  
swalker@co.walla-walla.wa.us  
(509)524-2710

Contact/Engineer:  
**PBS Engineering and Environmental**  
5 North Colville St, Suite 200  
Walla Walla, WA 99362  
PROJECT MANAGER  
**Joseph M. Melder, PE**  
michael.melder@pbsusa.com  
(509) 956-3026  
PROJECT ENGINEER  
**Michael Barta, PE**  
michael.barta@pbsusa.com  
(360) 567-2106

Surveyor:  
**PBS Engineering and Environmental**  
5 N Colville St, Ste 200  
Walla Walla, WA 99362  
**Greg Flowers, PLS**  
greg.flowers@pbsusa.com  
(509) 956-3026



Scale 1" = 50'  
0 25' 50' 100'

FINAL PLANS



07/06/2022



PBS Engineering and Environmental Inc.  
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Walla Walla, WA 99362  
509.956.3026  
pbsusa.com

JUNE 2022

SHEET ID

G001

SHEET 1 OF 20



SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PLAN QUANTITY	UNITS
	SCHEDULE A		
	PREPARATION		
1	MOBILIZATION	1	LS
2	CLEARING AND GRUBBING	0.08	ACRE
3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1	LS
	GRADING		
4	ROADWAY EXCAVATION INCLUDING HAUL	620	CY
5	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	50	CY
	DRAINAGE		
6	STORMWATER INFILTRATION GALLERIES	1	LS
	STORM SEWER		
7	SHALLOW MANHOLE	1	EA
8	CATCH BASIN TYPE 1L	4	EA
9	CATCH BASIN TYPE 2	3	EA
10	CATCH BASIN TYPE 1	1	EA
11	SDR 35 PVC STORM SEWER PIPE 10 IN. DIAMETER	205	LF
	CEMENT CONCRETE PAVEMENT		
12	CEMENT CONC. PAVEMENT	5	CY
	SURFACING		
13	CRUSHED SURFACING BASE COURSE	405	CY
	HOT MIX ASPHALT		
14	HMA CL 1/2 IN PG 64H-28	165	TON
	EROSION CONTROL		
15	INLET PROTECTION	15	EACH
16	SILT FENCE	140	LF
	TRAFFIC		
17	CEMENT CONC. TRAFFIC CURB AND GUTTER	355	LF
18	CEMENT CONC. PEDESTRIAN CURB	90	LF
19	PROJECT TEMPORARY TRAFFIC CONTROL	1	LS
20	PERMANENT SIGNING	1	LS
	OTHER		
21	ROADWAY SURVEYING	1	LS
22	TRENCH SAFETY SYSTEM	390	LF
23	PLUGGING EXISTING PIPE	2	EA
24	CEMENT CONC. SIDEWALK	610	SY
25	THICKENED CEMENT CONC. SIDEWALK WITH THICKENED EDGE	17	SY
26	CEMENT CONC. DRIVEWAY RESIDENTIAL	6	EA
27	CEMENT CONC. CURB WALL	300	LF
28	IRRIGATION SYSTEM	1	LS
29	MAILBOX SUPPORT TYPE 1	8	EA
30	COATED CHAIN LINK FENCE TYPE 3	145	LF
31	COATED END, GATE, CORNER, PULLPOST FOR CHAIN LINK FENCE	2	EA
32	SPCC PLAN	1	LS
33	MINOR CHANGE	1	DOL
	SCHEDULE B		
	OTHER		
1B	ADJUST WATER METER BOX TO GRADE AND PLACE 3/8" PRE-MOLDED JOINT FILLER	4	EA
2B	DOUBLE WRAP WATER MAIN AND ENCASE IN CDF	2	EA

PBS Engineering and Environmental Inc.  
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SUMMARY OF QUANTITIES FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



Know what's below.  
Call before you dig.



DESIGNED:  
MDB/KCS

CHECKED:  
MDB

JUNE 2022  
67750.000

SHEET ID





G002

SHEET 2 OF 20






































































FINAL PLANS

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Existing Linetype Legend		Proposed/Future Linetype Legend	
Existing Sanitary Sewer Pipe	SS	Proposed Sanitary Sewer Pipe	
Existing 4" Sanitary Sewer Pipe	4" SS	Proposed Sanitary Lateral	
Existing 6" Sanitary Sewer Pipe	6" SS	Proposed Sanitary Force Main	
Existing 8" Sanitary Sewer Pipe	8" SS	Proposed Storm Under Drain	
Existing 10" Sanitary Sewer Pipe	10" SS	Proposed Storm Rain Drain	
Existing 12" Sanitary Sewer Pipe	12" SS	Proposed Storm Pipe	
Existing 15" Sanitary Sewer Pipe	15" SS	Proposed Water Lateral	
Existing 18" Sanitary Sewer Pipe	18" SS	Proposed Water Pipe	
Existing 24" Sanitary Sewer Pipe	24" SS	Proposed Irrigation Pipe	
Existing 30" Sanitary Sewer Pipe	30" SS	Proposed Irrigation Lateral	
Existing Sanitary Force Main	FM	Proposed Lot Line	
Existing Storm Sewer Pipe	SD	Proposed Flow Line	
Existing 4" Storm Sewer Pipe	4" SD	Proposed Centerline	
Existing 6" Storm Sewer Pipe	6" SD	Proposed Right-of-way	
Existing 8" Storm Sewer Pipe	8" SD	Proposed Sawcut Line	
Existing 10" Storm Sewer Pipe	10" SD	Proposed Easement	
Existing 12" Storm Sewer Pipe	12" SD	Proposed Curb & Gutter	
Existing 15" Storm Sewer Pipe	15" SD	Proposed End Of Pav't	
Existing 18" Storm Sewer Pipe	18" SD	Proposed Sidewalk	
Existing 24" Storm Sewer Pipe	24" SD	Proposed Wall	
Existing Water Pipe	WL	Proposed Building	
Existing 4" Water Pipe	4" WL	Proposed Setback	
Existing 6" Water Pipe	6" WL	Proposed Property Line	
Existing 8" Water Pipe	8" WL	Proposed Cut Line	
Existing 10" Water Pipe	10" WL	Proposed Tree Protection	
Existing 12" Water Pipe	12" WL	Proposed Paint Stripe	
Existing 15" Water Pipe	15" WL	Proposed Fence	
Existing 18" Water Pipe	18" WL	Proposed Wetland Buffer	
Existing 24" Water Pipe	24" WL	Proposed Wetland Perimeter	
Existing Water Lateral		Proposed Contour	70
Existing Irrigation Pipe	IRR	Erosion Control Filter Fabric Fence	
Existing 4" Irrigation Pipe	4" IRR		
Existing 6" Irrigation Pipe	6" IRR		
Existing 8" Irrigation Pipe	8" IRR		
Existing 10" Irrigation Pipe	10" IRR		
Existing 12" Irrigation Pipe	12" IRR		
Existing Irrigation Lateral			
Existing Cable Tv Line	TV		
Existing Electric Line	E		
Existing Gas Line	G		
Existing Over Head Power Line	OHP		
Existing Telephone Line	T		
Existing Fiber Optic Line	FO		
Existing Underground Utility Line	UCP		
Existing Centerline			
Existing Curb			
Existing Lot Line			
Existing Gravel road			
Existing Flow Line			
Existing Paint Stripe			
Existing Right-of-way			
Existing Building			
Existing Wetland Perimeter			
Existing Wetland Buffer			
Existing Property Line			
Existing Utility Easement			
Existing Quarter Section			
Existing Railroad			
Existing Fence	X		
Existing Wall			
Existing Contour			70

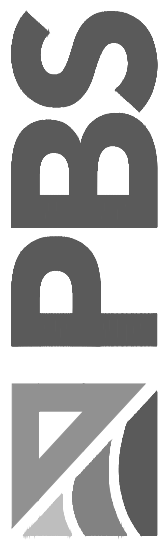
Hatching Legend	
	Proposed Full Depth Asphalt
	Proposed Grind & Inlay
	Proposed Concrete
	Proposed Pavers

Abbreviation Legend		Abbreviation Legend	
Acres	AC	High Water Elevation	HW
Assembly	ASSY	Hydrant	HYD
Avenue	AVE	Invert Elevation	IE
Approved	APP'D	Intersection	INTX
Butterfly	BF	Invert	INV
Boulevard	BLVD	Length	L
Benchmark	BM	Lateral	LAT
Blow Off	BO	Left	LT
Back Of Curb	BOC	Maximum	MAX
Begin Vertical Curve	BVC	Manhole	MH
Care Of	C/O	Minimum	MIN
Catch Basin	CB	Mechanical Joint	MJ
Cubic Feet	CF	Number	No. or #
Cast Iron	CI	Overhead Electric	OHE
Cement	CEM	Pavement	PAVT
Circle	CIR	Point Of Curve	PC
Centerline	CL	Power Pole	PP
Corrugated Metal Pipe	CMP	Point Of Reverse Curve	PRC
Cleanout	CO	Point Of Reverse Vertical Curve	PRVC
Combination	COMB	Point Of Tangent	PT
Compaction	COMP	Point Of Vertical Intersection	PVI
Concrete	CONC	Polyvinyl Chloride	PVC
Construction	CONST	Place	PL
Corrugated Polyethylene	CPE	Radius	R
Concrete Sewer Pipe	CSP	Right Of Way	R/W
Court	CT	Return	RET
Cubic Yard	CY	Right	RT
Cement	CEM	Sheet	SHT
Depth	D	Stainless Steel	SS
Ductile Iron	DI	Steel	STL
Diameter	DIA	Sidewalk	S/W
Ductile Iron Pipe	DIP	Street	ST
Down Spout	DS	Station Centerline	STA
Edge Of Pavement	EOP	Standard	STD
End Curb Return	ER	Sanitary	SAN
Easement	ESMT	Storm	STM
Existing	EXTG	Tangent	T
Elevation	EL	Thrust Block	TB
Electric	ELEC	Temporary Benchmark	TBM
End Vertical Curb	EVC	Top Of Curb	TC
Finished Floor	FF	Telephone	TEL
Finished Grade	FG	Temporary	TEMP
Fire Hydrant	FH	Top Of Manhole	TOP
Flange	FLG	Typical	TYP
Force Main	FM	Underground Electric	UGE
Foot / Feet	FT	Vertical Curve	VC
Gas	G	Vertical	VERT
Galvanized Iron	GI	Water	WTR
Ground	GRD	With	W/
Gate Valve	GV	Without	W/O
High Density Polyethylene	HDPE	Water Meter	WM
Horizontal	HORIZ	Yard	YD

Symbol Legend		Symbol Legend	
Existing Water Valve		Proposed Irrigation Meter	
Existing Gas Valve		Proposed Irrigation Backflow Device	
Existing Fire Hydrant		Proposed Irrigation Valve	
Existing Power Pole		Proposed Irrigation Bend Tee W/valve	
Existing Water Meter		Proposed Irrigation Bend Tee W/tb	
Existing Electrical Pedestal		Proposed Water 22½" Bend W/tb	
Existing Project Bench Mark		Proposed Water 11½" Bend W/tb	
Existing Iron Rod		Proposed Irrigation 45° Bend W/tb	
Existing Sanitary Manhole		Proposed Irrigation 90° Bend W/tb	
Existing Storm Manhole		Proposed Irrigation Stand Pipe	
Existing Catch Basin		Proposed Irrigation Bend X	
Existing Area Drain		Proposed Irrigation Temporary Blowoff	
Existing Combo Inlet		Proposed Irrigation Standard Blowoff	
Existing Telephone Pad		Proposed Irrigation Reducer	
Existing Cleanout		Proposed Irrigation Thrust Block	
Existing Flow Arrow		Proposed Inlet Protection Pillow	
Proposed Bollard		Proposed Gravel Construction Entrance	
Proposed Street Light		Proposed Sedimentation Trap	
Proposed Road Barrier			
Proposed Road Sign			
Proposed Flow Arrow			
Proposed Catch Basins			
Proposed Area Drain			
Proposed Combination Curb Inlet			
Proposed Storm Reducer			
Proposed Rain Drain			
Proposed Storm Cleanout			
Proposed Storm Manhole			
Proposed Sedimentation Manhole			
Proposed Drywell			
Proposed Sanitary Cap			
Proposed Sanitary Reducer			
Proposed Sanitary Cleanout			
Proposed Sanitary Manhole			
Proposed Fire Protection Vault			
Proposed Water Meter			
Proposed Water Backflow Device			
Proposed Water Valve			
Proposed Water Bend Tee W/valve			
Proposed Water Bend Tee W/tb			
Proposed Water 22½" Bend W/tb			
Proposed Water 11½" Bend W/tb			
Proposed Water 45° Bend W/tb			
Proposed Water 90° Bend W/tb			
Proposed Water Stand Pipe			
Proposed Water Bend X			
Proposed Water Temporary Blowoff			
Proposed Water Standard Blowoff			
Proposed Water Reducer			
Proposed Water Thrust Block			
Proposed Fire Hydrant			

FINAL PLANS

PBS Engineering and Environmental Inc.  
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Walla Walla, WA 99662  
509.566.3026  
pbsusa.com



LEGEND FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



Know what's below.  
Call before you dig.



DESIGNED:  
MDB/KCS

CHECKED:  
MDB

JUNE 2022  
67750.000

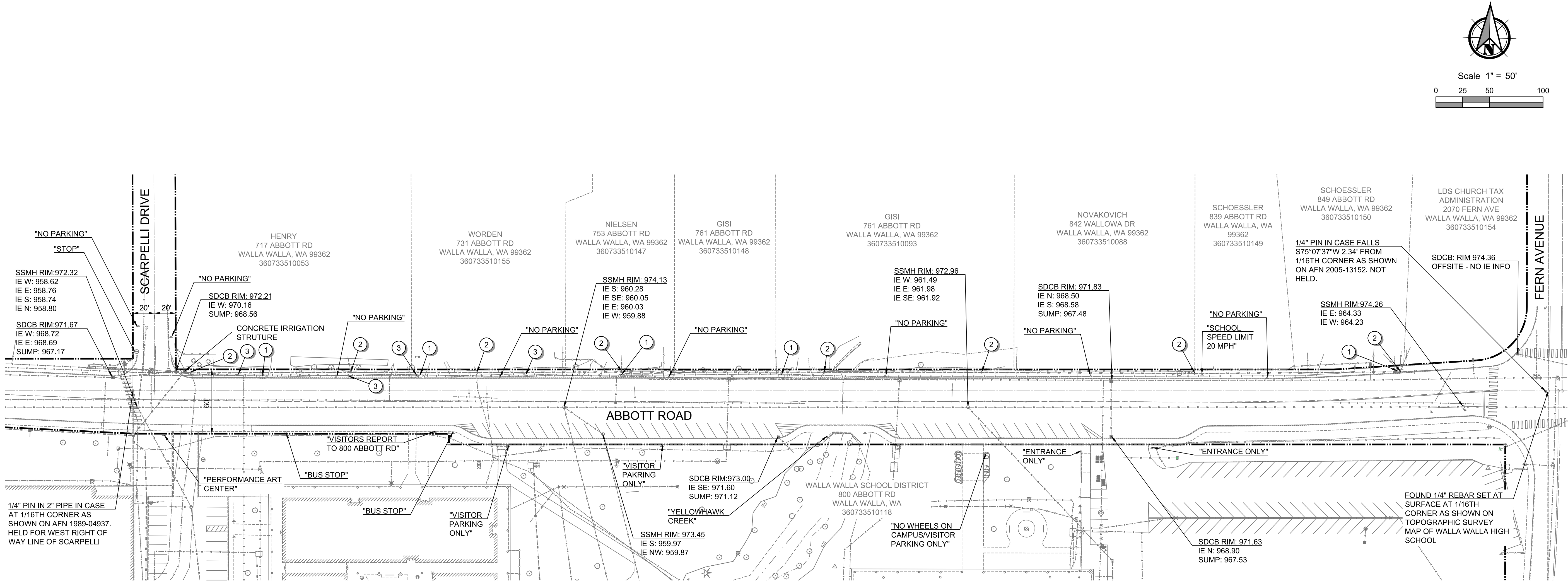
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G003

SHEET 3 OF 20



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#### GENERAL NOTES

1. SEE SHEET G001 AND G003 FOR GENERAL PROJECT NOTES AND THE MASTER LEGEND.
2. QUOTATION MARKS DESCRIBE THE TEXT ON AN EXISTING SIGN.
3. EXISTING CONDITIONS MAP BASED ON ABBOTT SURVEY SUPPLEMENT PREPARED BY GREG FLOWERS, PLS ON 1-12-2021, SURVEY BASE FROM (Wa-Hi) ON 2-01-2019, AND SITE VISIT ON 2-10-2021.

#### EXISTING FEATURES NOTES

- 1 EXISTING MAILBOX
- 2 EXISTING UTILITY POLE
- 3 EXISTING SPRINKLER HEAD

**FINAL PLANS**

Full Size Sheet Format Is 22x34; If Printed Size Is Not 22x34, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

PBS Engineering and  
Environmental Inc.  
5 N Cobble St, Ste 200  
Walla Walla, WA 99362  
360.950.3020  
pbsusa.com



## EXISTING CONDITIONS FOR: ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



Know what's below.  
Call before you dig.



DESIGNED:  
MDB/KCS  
CHECKED:  
MDB  
JUNE 2022  
67750.000

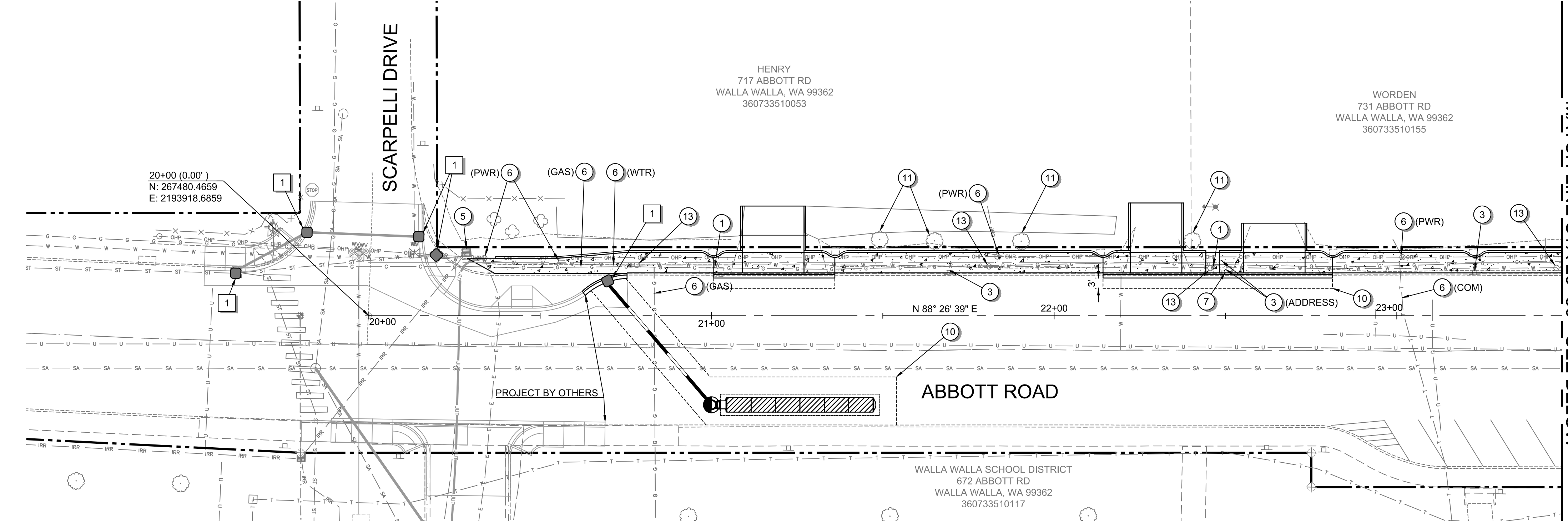
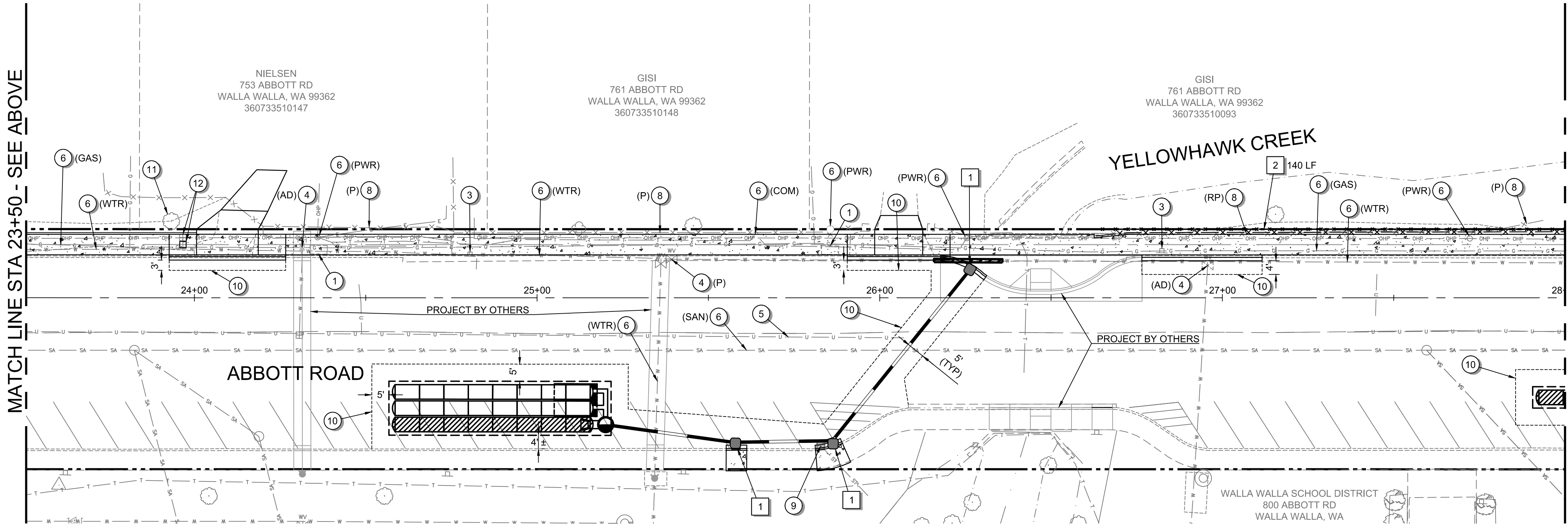
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**C001**

SHEET **4** OF **20**



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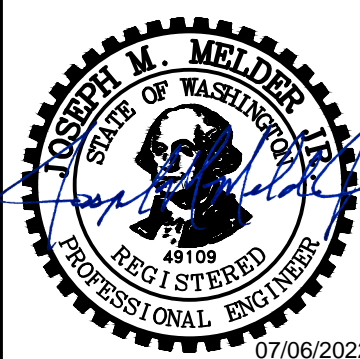
- GENERAL NOTES**
1. SEE SHEET G001 AND G003 FOR GENERAL PROJECT NOTES AND THE MASTER LEGEND.
  2. CONTRACTOR TO COORDINATE SIGN RELOCATION WITH COUNTY.
  3. CONCRETE SHALL BE WASHED OUT OFF SITE.

- DEMO/SITE PREP NOTES**
- ① RELOCATE EXISTING MAILBOX.
  - ② RELOCATE EXISTING UTILITY POLE (BY OTHERS).
  - ③ RELOCATE EXISTING SIGN.
  - ④ PROTECT (P) OR ADJUST (AD) WATER VALVE TO GRADE.
  - ⑤ PROTECT IRRIGATION UTILITY.
  - ⑥ PROTECT UTILITY.
  - ⑦ REMOVE EXISTING BOLLARD.
  - ⑧ PROTECT (P) , RELOCATE ( RE), OR REPLACE (RP) EXISTING FENCE.
  - ⑨ REMOVE EXISTING STORM STRUCTURE.
  - ⑩ SAWCUT HMA.
  - ⑪ REMOVE TREE / VEGETATION.
  - ⑫ ADJUST WATER METER TO GRADE AND PLACE 3/8" PRE-MOLDED JOINT FILLER ON BOTH SIDES OF SIDEWALK PANEL PER CITY OF WALLA WALLA STD PLAN 4-3a AND 4-3b, SHEET C306.
  - ⑬ RELOCATE SPRINKLER TO RIGHT-OF-WAY LINE, ON PRIVATE PROPERTY.

- EROSION CONTROL NOTES**
- ① INLET PROTECTION PER WSDOT STD PLAN I-40.20, SHEET C303.
  - ② SILT FENCE PER WSDOT STD PLAN I-30.15, SHEET C303.

- UTILITY LEGEND**
- COM = TELECOMMUNICATION
- GAS = UTILITY COMPANY
- WTR = CITY OF WALLA WALLA
- PWR = POWER COMPANY
- SAN = CITY OF WALLA WALLA SANITARY SEWER

EROSION CONTROL AND SITE PREPARATION PLAN FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



DESIGNED:  
MDB/KCS

CHECKED:  
MDB

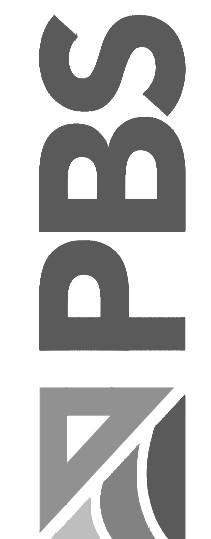
JUNE 2022  
67750.000

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**C101**

SHEET **5** OF **20**

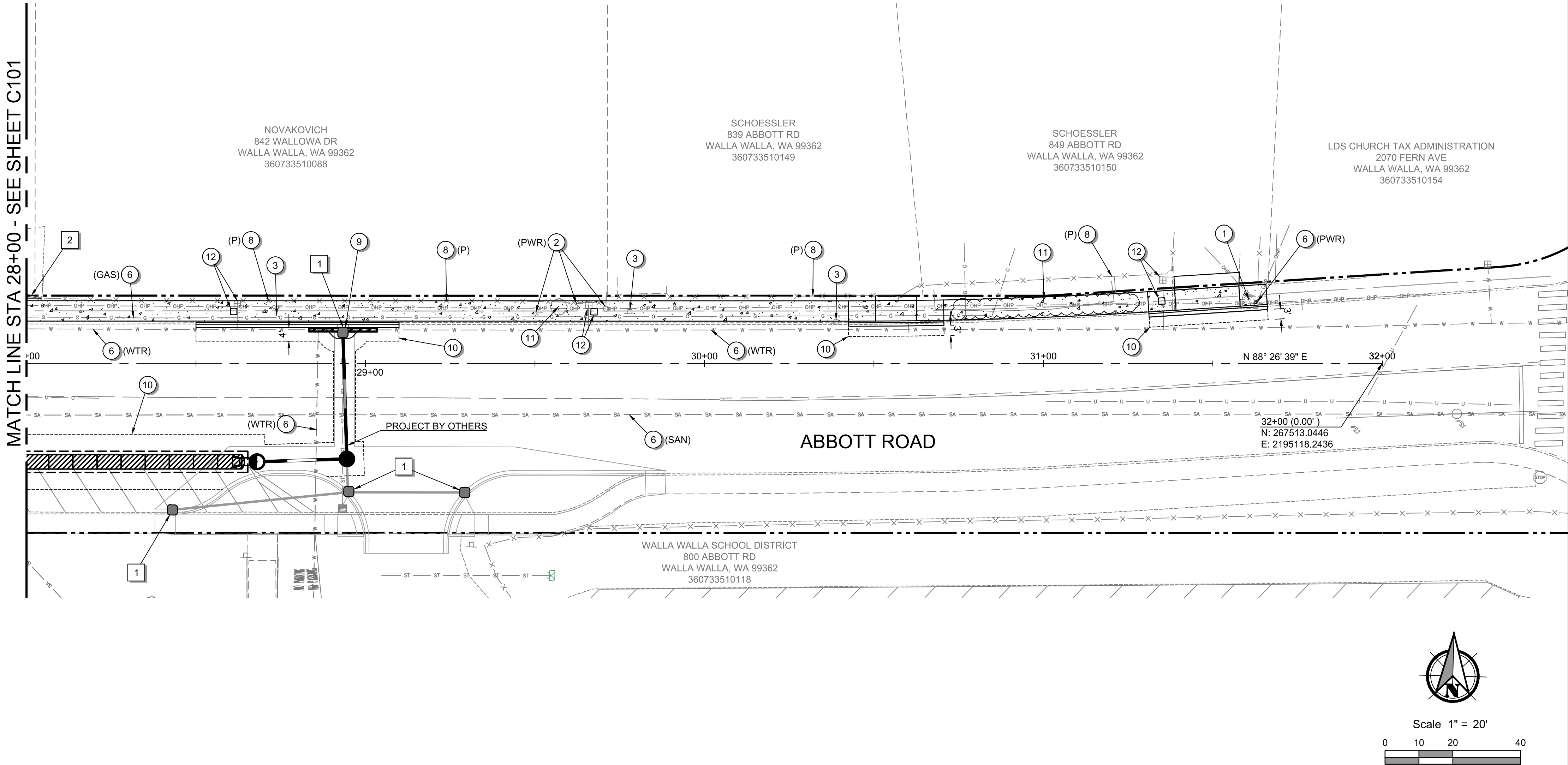
**FINAL PLANS**

PBS Engineering and  
Environmental Inc.  
5 N Colville St, Ste 200  
Walla Walla, WA 99362  
509.595.3226  
pbsusa.com





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**GENERAL NOTES**

1. SEE SHEET G001 AND G003 FOR GENERAL PROJECT NOTES AND THE MASTER LEGEND.
2. CONTRACTOR TO COORDINATE SIGN RELOCATION WITH COUNTY.
3. CONCRETE SHALL BE WASHED OUT OFF SITE.

**DEMO/SITE PREP NOTES**

- 1 RELOCATE EXISTING MAILBOX.
- 2 RELOCATE EXISTING UTILITY POLE (BY OTHERS).
- 3 RELOCATE EXISTING SIGN.
- 4 PROTECT (P) OR ADJUST (AD) WATER VALVE TO GRADE.
- 5 PROTECT IRRIGATION UTILITY.
- 6 PROTECT UTILITY.
- 7 REMOVE EXISTING BOLLARD.
- 8 PROTECT (P) , RELOCATE ( RE), OR REPLACE (RP) EXISTING FENCE.
- 9 REMOVE EXISTING STORM STRUCTURE.
- 10 SAWCUT HMA.
- 11 REMOVE TREE / VEGETATION.
- 12 ADJUST WATER METER TO GRADE AND PLACE 3/8" PRE-MOLDED JOINT FILLER ON BOTH SIDES OF SIDEWALK PANEL PER CITY OF WALLA WALLA STD PLAN 4-3a AND 4-3b, SHEET C306.
- 13 RELOCATE SPRINKLER TO RIGHT-OF-WAY LINE, ON PRIVATE PROPERTY.

**EROSION CONTROL NOTES**

- 1 INLET PROTECTION PER WSDOT STD PLAN I-40.20, SHEET C303.
- 2 SILT FENCE PER WSDOT STD PLAN I-30.15, SHEET C303.

**UTILITY LEGEND**

COM = TELECOMMUNICATION

GAS = UTILITY COMPANY

WTR = CITY OF WALLA WALLA

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PBS Engineering and  
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5 N Corville St, Ste 200  
Walla Walla, WA 99362  
360.590.3026  
pbsusa.com



**EROSION CONTROL AND SITE PREPARATION PLAN FOR:  
ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON**



Know what's below.  
Call before you dig.



DESIGNED:  
MDB/KCS

CHECKED:  
MDB

JUNE 2022  
67750.000

SHEET ID

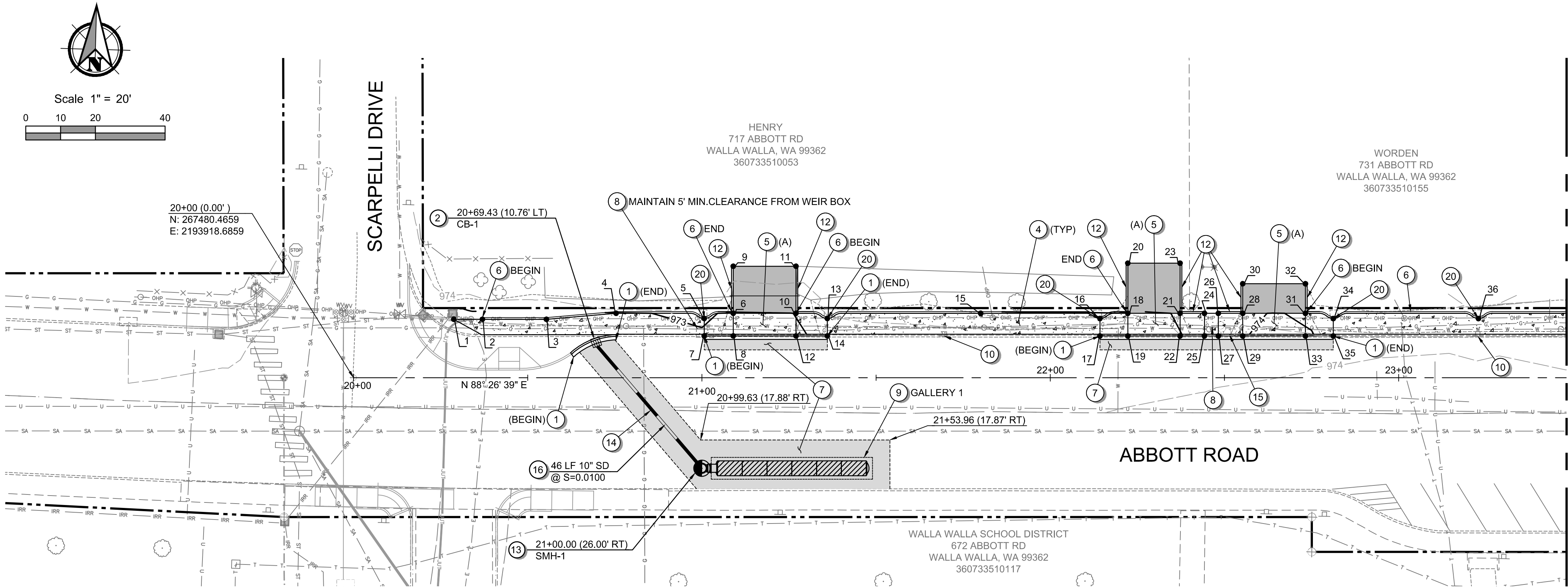
**C102**

SHEET **6** OF **20**

**FINAL PLANS**



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MATCH LINE STA 23+50 - SEE SHEET C202

GRADING TABLE

POINT	STATION OFFSET	FG EL	TC EL	NOTES
1	20+28.79, 16.77' LT	972.91	972.91	MATCH EG
2	20+37.00, 16.77' LT	972.70	973.63	TC=TCW
3	20+55.36, 16.77' LT	972.76	973.63	TC=TCW
4	20+75.36, 18.50' LT	972.93	973.63	TC=TCW
5	21+00.66, 17.00' LT	973.08	973.63	TC=TCW
6	21+09.00, 18.50' LT	972.76	973.63	TC= TCW
7	21+00.66, 12.00' LT	972.51	973.01	MATCH EG
8	21+09.00, 12.00' LT	972.67	972.67	
9	21+09.00, 32.00' LT	974.38	974.38	MATCH EG
10	21+27.00, 18.50' LT	972.91	974.59	TC=TCW
11	21+27.00, 32.00' LT	974.29	974.29	MATCH EG
12	21+27.00, 12.00' LT	972.82	972.82	
13	21+36.00, 17.00' LT	973.41	974.59	TC=TCW
14	21+36.00, 12.00' LT	972.84	973.34	MATCH EG
15	21+80.00, 18.50' LT	973.74	974.59	TC=TCW
16	22+14.25, 17.00' LT	973.96	974.59	TC=TCW
17	22+14.25, 12.00' LT	973.39	973.89	MATCH EG
18	22+22.25, 18.50' LT	973.61	974.59	TC=TCW

NOTES:  
TC = TOP OF CURB  
TCW = TOP OF CURB WALL

GRADING TABLE

POINT	STATION OFFSET	FG EL	TC EL	NOTES
19	22+22.25, 12.00' LT	973.52	973.52	
20	22+22.25, 32.90' LT	975.33	975.33	MATCH EG
21	22+37.25, 18.50' LT	973.82	974.32	
22	22+37.25, 12.00' LT	973.73	973.73	
23	22+37.25, 32.90' LT	975.59	975.59	MATCH EG
24	22+44.25, 18.50' LT	974.18	974.18	
25	22+44.25, 12.00' LT	973.59	974.09	
26	22+48.24, 18.50' LT	974.20	974.20	
27	22+48.24, 12.00' LT	973.61	974.11	
28	22+55.24, 18.50' LT	973.83	974.33	
29	22+55.24, 12.00' LT	973.74	973.74	
30	22+55.24, 27.00' LT	975.00	975.00	MATCH EG
31	22+73.24, 18.50' LT	973.96	975.53	TC=TCW
32	22+73.24, 27.00' LT	975.49	975.49	MATCH EG
33	22+73.24, 12.00' LT	973.87	973.87	
34	22+81.24, 17.00' LT	974.37	975.53	TC=TCW
35	22+81.24, 12.00' LT	973.80	974.30	MATCH EG
36	23+22.90, 17.00' LT	974.40	975.53	TC=TCW

STORM INLET TABLE

#	LOCATION	TYPE	RIM/GRATE	INVERT ELEV	LATERAL SLOPE	LATERAL LENGTH
CB-1	20+69.43 (10.76' LT)	TYPE 1L	972.28	10" IE 968.90 OUT (SE)	S=0.0100	46 LF SD
SMH-1	21+00.00 (26.00' RT)	48" TYPE 2 CB	972.92	10" IE 968.44 IN (NW) 24" IE 968.24 OUT (E)	S=0.0000	4 LF SD

INFILTRATION GALLERY NOTES

CONTRACTOR TO EXCAVATE THE PERMANENT STORMWATER GALLERY WITHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON SUBGRADE OF INFILTRATION GALLERY. CONTRACTOR TO EXCAVATE FROM OUTSIDE OF GALLERY AREA OR TO BACK EQUIPMENT OUT AS EXCAVATING TO AVOID TRACKING EQUIPMENT ON BOTTOM 1' OF GALLERY. TYPICAL SOIL INSPECTION TO BE COORDINATED BY CONTRACTOR WITH PROJECT ENGINEER OF RECORD SUCH THAT INSPECTION OF SOILS OCCURS DURING GALLERY/SWALE CONSTRUCTION TO VERIFY CONSISTENT MATERIAL PER THE SOIL REPORT. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.

STORMWATER SOILS NOTES

CONTRACTOR SHALL COORDINATE SOILS OBSERVATIONS AND INFILTRATION TESTING WITH PROJECT ENGINEER OF RECORD PRIOR TO EXCAVATION OF STORMWATER DISPOSAL FACILITIES. RESULTS SHALL BE PROVIDED TO PBS IN WRITING PRIOR TO FINAL EXCAVATION AND INSTALLATION OF STORMWATER FACILITIES. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.

GENERAL NOTES

- SEE SHEET G001 AND G003 FOR GENERAL PROJECT NOTES AND THE MASTER LEGEND.
- DIMENSIONS SHOWN ARE TO FACE OF CURB WHERE APPLICABLE.
- CONCRETE SHALL BE WASHED OUT OFF SITE.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO WALLA WALLA COUNTY PUBLIC WORKS STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO POTHOLE AND VERIFY LOCATION, ELEVATION, SIZE, MATERIAL, AND CONDITION OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OR CONNECTIONS. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
- CONTRACTOR TO INSPECT THE CONSTRUCTION OF OTHER PROJECTS COMPLETED IN THE VICINITY OF THIS PROJECT. NOTIFY ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS.
- CONTRACTOR SHALL RELOCATE IRRIGATION SPRINKLERS IN R/W TO ADJACENT PROPERTY. IDENTIFY AND COORDINATE RELOCATION WITH COUNTY.
- ACCESSIBLE ROUTES SHALL HAVE RUNNING SLOPES NOT STEEPER THAN 1:20 AND CROSS SLOPES NOT STEEPER THAN 1:50 ON ANY LANDING PAD, MANEUVERING AREA, OR SIDEWALK. ACCESSIBLE RAMP SHALL HAVE RUNNING SLOPE NOT STEEPER THAN 1:12.
- WATER CHANNEL OPEN FROM APRIL 1ST TO OCTOBER 1ST. WATER MASTER: TIM DONAHEW.

CONSTRUCTION NOTES

- TYPICAL CURB AND GUTTER PER WALLA WALLA CO STD DRAWING CG-01, SHEET C301.
- TYPICAL CURB AND GUTTER INLET PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. INSTALL OIL DEBRIS HOOD WITH RAVEN OWS-LP-4-15 OR ENGINEER APPROVED EQUAL.
- COATED CHAIN LINK FENCE TYPE 3 PER WSDOT STD DRAWING L-20.10, SHEET C303.
- SIDEWALK PER WALLA WALLA CO STD DRAWING SW-05, SHEET C301.
- DRIVEWAY AND APPROACH PER WALLA WALLA CO STD DRAWING DW-02, DW-05, AND DRIVEWAY APPROACH DETAIL, SHEET C302 AND C307. APPROACH (A) = HMA OR (C) = CONCRETE.
- CURB WALL PER DETAIL, SHEET C307.
- TYPICAL PATCH FOR FLEXIBLE PAVEMENT PER WALLA WALLA CO STD DRAWING UT-03, SHEET C302.
- RELOCATE MAILBOX PER WSDOT STD DRAWING H-70.10, SHEET C304. COORDINATE LOCATION WITH COUNTY.
- STORMWATER GALLERY PER DETAILS, SHEET C308-C309.
- RELOCATE SIGN PER WALLA WALLA CO STD DRAWING R-14, SHEET C301.
- CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20, SHEET C304 & BI-DIRECTIONAL VANED GRATE PER WSDOT STD PLAN B-30.40, SHEET C305.
- PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12, SHEET C304. TWO FEET TRANSITION FROM PED CURB TO CURB WALL.
- CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20, SHEET C305.
- POTHOLE UTILITY AND VERIFY MIN. 1.5' CLEARANCE BETWEEN STORM PIPE. NOTIFY ENGINEER IF MIN. CLEARANCE NOT MAINTAINED.
- REMOVE EXISTING BOLLARDS.
- SDR 35 PVC STORM PIPE.
- NOT USED.
- FIELD FIT EXPANDED GUTTER PAN PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. ENSURE DRAINAGE TO CATCH BASIN.
- DOUBLE WRAP WATER MAIN WITH 10 MILIMETERS OF PLASTIC AND ENCASE IN 6 INCHES OF CDF FOR MIN. 10 FEET ON EITHER SIDE OF CATCH BASIN PER CITY OF WALLA WALLA STD PLAN 1-7, SHEET C306.
- FIELD FIT TOP OF CURB WALL FLUSH WITH IRRIGATION WEIR BOX PER DETAIL, SHEET C307.
- SHALLOW MANHOLE PER CITY OF WALLA WALLA STANDARD PLAN 3-4, SHEET C306.
- REINSTALL EXISTING STORM PIPE TO MH-4 AT MINIMUM 1% SLOPE.
- THICKENED CEMENT CONC. SIDEWALK WITH THICKENED EDGE PER DETAIL, SHEET C307.

FINAL PLANS

PBS Engineering and Environmental Inc.  
5 N Cobble St, Ste 200  
Walla Walla, WA 99362  
360.950.3026  
pbsusa.com



SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



Know what's below.  
Call before you dig.



DESIGNED:  
MDB/KCS  
CHECKED:  
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JUNE 2022  
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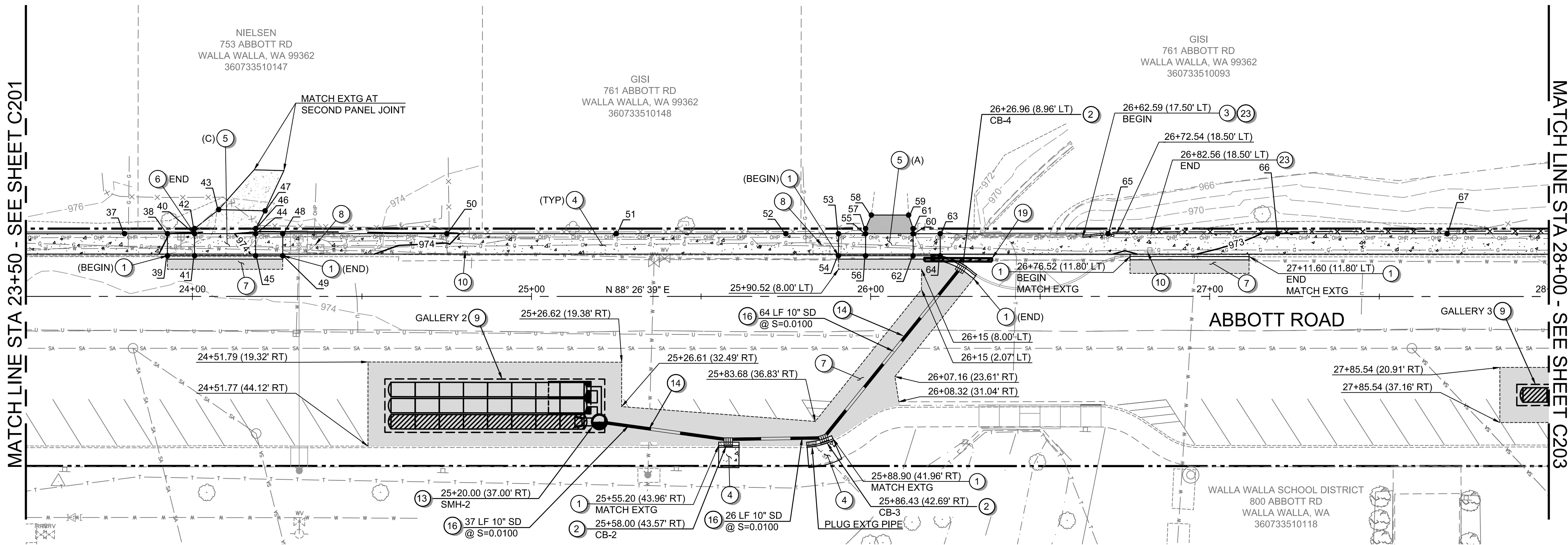
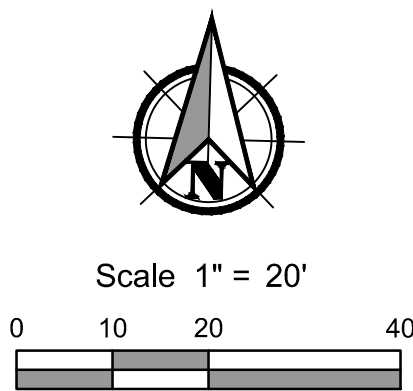
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C201

SHEET 7 OF 20



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GRADING TABLE				
POINT	STATION OFFSET	FG EL	TC EL	NOTES
37	23+80.00, 18.50' LT	974.31	975.53	TC=TCW
38	23+92.65, 18.50' LT	974.28	975.53	TC=TCW
39	23+92.65, 12.00' LT	973.69	974.19	MATCH EG
40	24+00.65, 18.50' LT	973.85	975.53	TC=TCW
41	24+00.65, 12.00' LT	973.76	973.76	
42	24+00.65, 20.00' LT	973.95	973.95	
43	24+07.76, 25.60' LT	973.95	973.95	
44	24+18.65, 18.50' LT	973.93	973.93	
45	24+18.65, 12.00' LT	973.84	973.84	
46	24+18.65, 20.00' LT	974.03	974.03	
47	24+21.43, 25.23' LT	974.20	974.20	
48	24+26.65, 18.50' LT	974.16	974.16	
49	24+26.65, 12.00' LT	973.57	974.07	MATCH EG
50	24+75.00, 18.50' LT	974.04	974.04	
51	25+25.00, 18.50' LT	973.95	973.95	
52	25+75.00, 18.50' LT	973.81	973.81	

NOTES:  
TC = TOP OF CURB  
TCW = TOP OF CURB WALL

GRADING TABLE				
POINT	STATION OFFSET	FG EL	TC EL	NOTES
53	25+90.52, 18.50' LT	973.77	973.77	
54	25+90.52, 12.00' LT	973.18	973.68	MATCH EG
55	25+98.52, 18.50' LT	973.31	973.31	
56	25+98.52, 12.00' LT	973.22	973.22	
57	25+98.52, 20.00' LT	973.28	973.28	
58	26+00.22, 24.00' LT	973.18	973.18	MATCH EG
59	26+11.20, 24.00' LT	973.18	973.18	MATCH EG
60	26+12.52, 18.50' LT	973.25	973.25	
61	26+12.52, 20.00' LT	973.22	973.22	
62	26+12.52, 12.00' LT	973.16	973.16	
63	26+20.52, 18.50' LT	973.60	973.60	
64	26+20.52, 12.00' LT	973.01	973.51	
65	26+70.00, 18.50' LT	973.31	973.31	
66	27+20.00, 18.50' LT	973.14	973.14	
67	27+70.00, 18.50' LT	972.86	972.86	

STORM INLET TABLE						
#	LOCATION	TYPE	RIM/GRATE	INVERT ELEV	LATERAL SLOPE	LATERAL LENGTH
CB-2	25+58.00 (43.57' RT)	TYPE 1L	972.85	10" IE 969.10 IN (E) 10" IE 968.90 OUT (W)	S=0.0100	37 LF SD
CB-3	25+86.43 (42.69' RT)	TYPE 1L	972.80	10" IE 969.57 IN (NE) 10" IE 969.37 OUT (W)	S=0.0100	26 LF SD
CB-4	26+26.96 (8.96' LT)	TYPE 1L	973.13	10" IE 970.21 OUT (SW)	S=0.0100	64 LF SD
SMH-2	25+20.00 (37.00' RT)	48" TYPE 2 CB	973.39	10" IE 968.53 IN (E) 24" IE 968.33 OUT (W)	S=0.0000	5 LF SD

#### INFILTRATION GALLERY NOTES

CONTRACTOR TO EXCAVATE THE PERMANENT STORMWATER GALLERY WITHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON SUBGRADE OF INFILTRATION GALLERY. CONTRACTOR TO EXCAVATE FROM OUTSIDE OF GALLERY AREA OR TO BACK EQUIPMENT OUT AS EXCAVATING TO AVOID TRACKING EQUIPMENT ON BOTTOM 1' OF GALLERY. TYPICAL SOIL INSPECTION TO BE COORDINATED BY CONTRACTOR WITH PROJECT ENGINEER OF RECORD SUCH THAT INSPECTION OF SOILS OCCURS DURING GALLERY/SWALE CONSTRUCTION TO VERIFY CONSISTENT MATERIAL PER THE SOIL REPORT. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.

#### STORMWATER SOILS NOTES

CONTRACTOR SHALL COORDINATE SOILS OBSERVATIONS AND INFILTRATION TESTING WITH PROJECT ENGINEER OF RECORD PRIOR TO EXCAVATION OF STORMWATER DISPOSAL FACILITIES. RESULTS SHALL BE PROVIDED TO PBS IN WRITING PRIOR TO FINAL EXCAVATION AND INSTALLATION OF STORMWATER FACILITIES. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.

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- CONTRACTOR SHALL RELOCATE IRRIGATION SPRINKLERS IN R/W TO ADJACENT PROPERTY. IDENTIFY AND COORDINATE RELOCATION WITH COUNTY.
- ACCESSIBLE ROUTES SHALL HAVE RUNNING SLOPES NOT STEEPER THAN 1:20 AND CROSS SLOPES NOT STEEPER THAN 1:50 ON ANY LANDING PAD, MANEUVERING AREA, OR SIDEWALK. ACCESSIBLE RAMP SHALL HAVE RUNNING SLOPE NOT STEEPER THAN 1:12.
- WATER CHANNEL OPEN FROM APRIL 1ST TO OCTOBER 1ST. WATER MASTER: TIM DONAHEW.

#### CONSTRUCTION NOTES

- TYPICAL CURB AND GUTTER PER WALLA WALLA CO STD DRAWING CG-01, SHEET C301.
- TYPICAL CURB AND GUTTER INLET PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. INSTALL OIL DEBRIS HOOD WITH RAVEN OWS-LP-4-15 OR ENGINEER APPROVED EQUAL.
- COATED CHAIN LINK FENCE TYPE 3 PER WSDOT STD DRAWING L-20.10, SHEET C303.
- SIDEWALK PER WALLA WALLA CO STD DRAWING SW-05, SHEET C301.
- DRIVEWAY AND APPROACH PER WALLA WALLA CO STD DRAWING DW-02, DW-05, AND DRIVEWAY APPROACH DETAIL, SHEET C302 AND C307. APPROACH (A) = HMA OR (C) = CONCRETE.
- CURB WALL PER DETAIL, SHEET C307.
- TYPICAL PATCH FOR FLEXIBLE PAVEMENT PER WALLA WALLA CO STD DRAWING UT-03, SHEET C302.
- RELOCATE MAILBOX PER WSDOT STD DRAWING H-70.10, SHEET C304. COORDINATE LOCATION WITH COUNTY.
- STORMWATER GALLERY PER DETAILS, SHEET C308-C309.
- RELOCATE SIGN PER WALLA WALLA CO STD DRAWING R-14, SHEET C301.
- CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20, SHEET C304 & BI-DIRECTIONAL VANED GRATE PER WSDOT STD PLAN B-30.40, SHEET C305.
- PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12, SHEET C304. TWO FEET TRANSITION FROM PED CURB TO CURB WALL.
- CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20, SHEET C305.
- POTHOLE UTILITY AND VERIFY MIN. 1.5' CLEARANCE BETWEEN STORM PIPE. NOTIFY ENGINEER IF MIN. CLEARANCE NOT MAINTAINED.
- REMOVE EXISTING BOLLARDS.
- SDR 35 PVC STORM PIPE.
- NOT USED.
- FIELD FIT EXPANDED GUTTER PAN PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. ENSURE DRAINAGE TO CATCH BASIN.
- DOUBLE WRAP WATER MAIN WITH 10 MILIMETERS OF PLASTIC AND ENCASE IN 6 INCHES OF CDF FOR MIN. 10 FEET ON EITHER SIDE OF CATCH BASIN PER CITY OF WALLA WALLA STD PLAN 1-7, SHEET C306.
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- REINSTALL EXISTING STORM PIPE TO MH-4 AT MINIMUM 1% SLOPE.
- THICKENED CEMENT CONC. SIDEWALK WITH THICKENED EDGE PER DETAIL, SHEET C307.

**FINAL PLANS**

PBS Engineering and  
Environmental Inc.  
5 N Colville St, Ste 200  
Walla Walla, WA 99362  
509.566.3626  
pbsusa.com



**SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN FOR:**  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
**A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON**



Know what's below.  
Call before you dig.



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CHECKED:  
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JUNE 2022  
67750.000

SHEET ID

**C202**

SHEET **8** OF **20**



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GRADING TABLE				
POINT	STATION OFFSET	FG EL	TC EL	NOTES
68	28+20.00, 18.50' LT	972.49	972.49	
69	28+70.00, 18.50' LT	972.27	972.27	
70	29+20.00, 18.50' LT	972.40	972.40	
71	29+70.00, 18.50' LT	972.55	972.55	
72	30+20.00, 18.50' LT	972.89	972.89	
73	30+42.50, 18.50' LT	973.11	973.11	
74	30+42.50, 12.00' LT	972.52	973.02	MATCH EG
75	30+50.50, 18.51' LT	972.71	972.71	
76	30+50.53, 12.01' LT	972.62	972.62	
77	30+62.51, 18.62' LT	972.88	972.88	
78	30+62.60, 12.12' LT	972.79	972.79	

NOTES:  
TC = TOP OF CURB  
TCW = TOP OF CURB WALL

GRADING TABLE				
POINT	STATION OFFSET	FG EL	TC EL	NOTES
79	30+70.51, 18.75' LT	973.28	973.28	
80	30+70.63, 12.25' LT	972.69	973.19	MATCH EG
81	31+00.00, 19.61' LT	973.64	973.64	
82	31+30.72, 21.20' LT	973.83	973.83	
83	31+31.13, 14.71' LT	973.24	973.74	MATCH EG
84	31+38.71, 21.70' LT	973.32	973.32	
85	31+39.14, 15.22' LT	973.23	973.23	
86	31+57.67, 22.91' LT	973.46	973.46	
87	31+58.08, 16.42' LT	973.37	973.37	
88	31+65.65, 23.42' LT	973.83	973.83	MATCH EG
89	31+66.07, 16.93' LT	973.43	973.93	MATCH EG

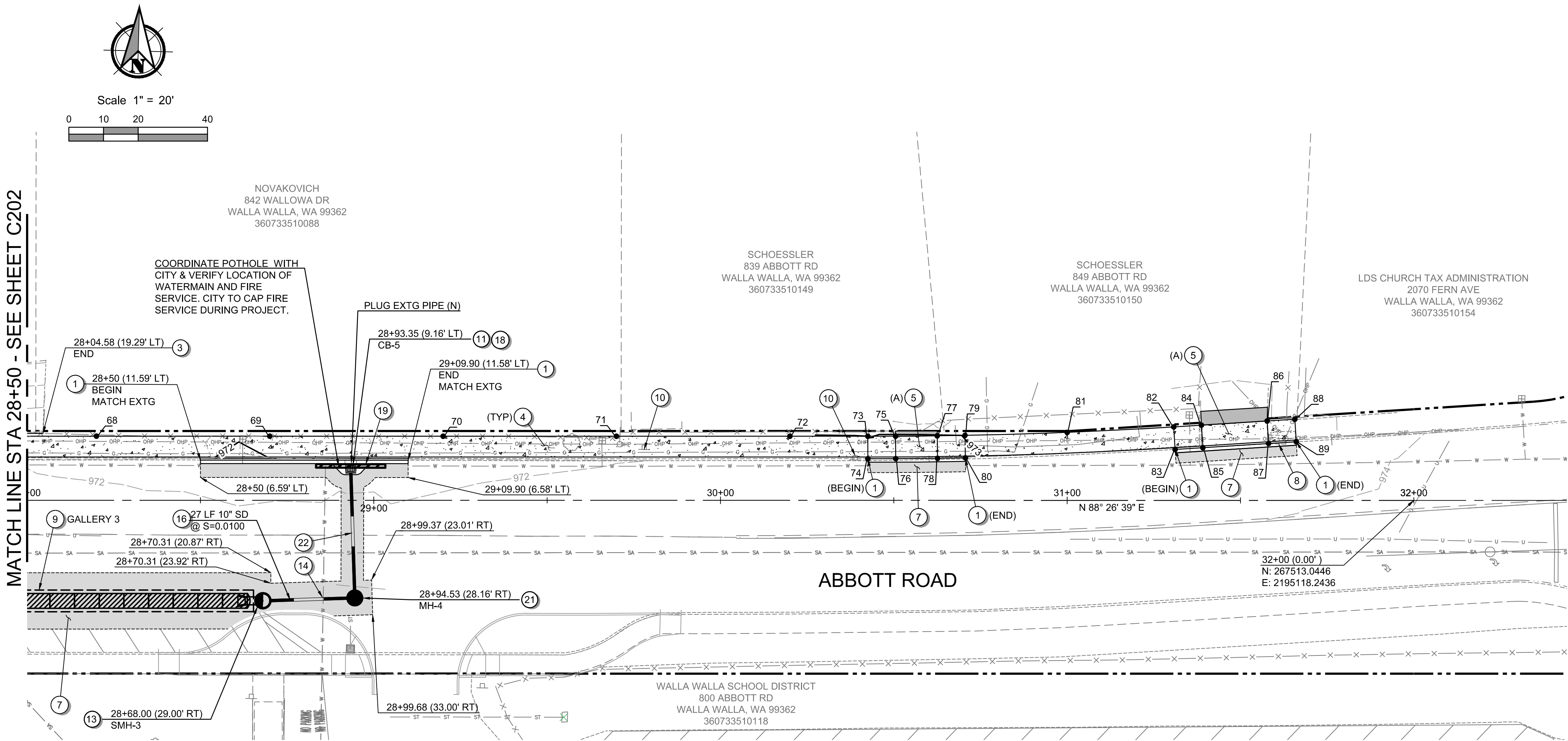
STORM INLET TABLE						
#	LOCATION	TYPE	RIM/ GRATE	INVERT ELEV	LATERAL SLOPE	LATERAL LENGTH
CB-5	28+93.35 (9.16' LT)	TYPE 1	971.79	EXTG 10" IE 968.07 OUT (S)	S=0.0100	37 LF EXTG SD
MH-4	28+94.53 (28.16' RT)	SHALLOW MH	972.00	EXTG 10" IE 967.70 IN (N) EXTG 10" IE 968.80 IN (S) 10" IE 967.50 OUT (W)	S=0.0100	27 LF SD
SMH-3	28+68.00 (29.00' RT)	48" TYPE 2 CB	972.03	10" IE 967.23 IN (E) 24" IE 967.03 OUT (W)	S=0.0000	4 LF SD

#### INFILTRATION GALLERY NOTES

CONTRACTOR TO EXCAVATE THE PERMANENT STORMWATER GALLERY WITHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON SUBGRADE OF INFILTRATION GALLERY. CONTRACTOR TO EXCAVATE FROM OUTSIDE OF GALLERY AREA OR TO BACK EQUIPMENT OUT AS EXCAVATING TO AVOID TRACKING EQUIPMENT ON BOTTOM 1' OF GALLERY. TYPICAL SOIL INSPECTION TO BE COORDINATED BY CONTRACTOR WITH PROJECT ENGINEER OF RECORD SUCH THAT INSPECTION OF SOILS OCCURS DURING GALLERY/SWALE CONSTRUCTION TO VERIFY CONSISTENT MATERIAL PER THE SOIL REPORT. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.

#### STORMWATER SOILS NOTES

CONTRACTOR SHALL COORDINATE SOILS OBSERVATIONS AND INFILTRATION TESTING WITH PROJECT ENGINEER OF RECORD PRIOR TO EXCAVATION OF STORMWATER DISPOSAL FACILITIES. RESULTS SHALL BE PROVIDED TO PBS IN WRITING PRIOR TO FINAL EXCAVATION AND INSTALLATION OF STORMWATER FACILITIES. IF ANY VARIATION IS NOTED IN NATIVE SOILS OR GROUNDWATER DEPTH, IT IS TO BE REPORTED TO THE OWNER IMMEDIATELY FOR APPROPRIATE DESIGN REVISIONS.



#### GENERAL NOTES

- SEE SHEET G001 AND G003 FOR GENERAL PROJECT NOTES AND THE MASTER LEGEND.
- DIMENSIONS SHOWN ARE TO FACE OF CURB WHERE APPLICABLE.
- CONCRETE SHALL BE WASHED OUT OFF SITE.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO WALLA WALLA COUNTY PUBLIC WORKS STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO POTHOLE AND VERIFY LOCATION, ELEVATION, SIZE, MATERIAL, AND CONDITION OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OR CONNECTIONS. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
- CONTRACTOR TO INSPECT THE CONSTRUCTION OF OTHER PROJECTS COMPLETED IN THE VICINITY OF THIS PROJECT. NOTIFY ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS.
- CONTRACTOR SHALL RELOCATE IRRIGATION SPRINKLERS IN R/W TO ADJACENT PROPERTY. IDENTIFY AND COORDINATE RELOCATION WITH COUNTY.
- ACCESSIBLE ROUTES SHALL HAVE RUNNING SLOPES NOT STEEPER THAN 1:20 AND CROSS SLOPES NOT STEEPER THAN 1:50 ON ANY LANDING PAD, MANEUVERING AREA, OR SIDEWALK. ACCESSIBLE RAMP SHALL HAVE RUNNING SLOPE NOT STEEPER THAN 1:12.
- WATER CHANNEL OPEN FROM APRIL 1ST TO OCTOBER 1ST. WATER MASTER: TIM DONAHEW.

#### CONSTRUCTION NOTES

- TYPICAL CURB AND GUTTER PER WALLA WALLA CO STD DRAWING CG-01, SHEET C301.
- TYPICAL CURB AND GUTTER INLET PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. INSTALL OIL DEBRIS HOOD WITH RAVEN OWS-LP-4-15 OR ENGINEER APPROVED EQUAL.
- COATED CHAIN LINK FENCE TYPE 3 PER WSDOT STD DRAWING L-20.10, SHEET C303.
- SIDEWALK PER WALLA WALLA CO STD DRAWING SW-05, SHEET C301.
- DRIVEWAY AND APPROACH PER WALLA WALLA CO STD DRAWING DW-02, DW-05, AND DRIVEWAY APPROACH DETAIL, SHEET C302 AND C307. APPROACH (A) = HMA OR (C) = CONCRETE.
- CURB WALL PER DETAIL, SHEET C307.
- TYPICAL PATCH FOR FLEXIBLE PAVEMENT PER WALLA WALLA CO STD DRAWING UT-03, SHEET C302.
- RELOCATE MAILBOX PER WSDOT STD DRAWING H-70.10, SHEET C304. COORDINATE LOCATION WITH COUNTY.
- STORMWATER GALLERY PER DETAILS, SHEET C308-C309.
- RELOCATE SIGN PER WALLA WALLA CO STD DRAWING R-14, SHEET C301.
- CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20, SHEET C304 & BI-DIRECTIONAL VANED GRATE PER WSDOT STD PLAN B-30.40, SHEET C305.
- PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12, SHEET C304. TWO FEET TRANSITION FROM PED CURB TO CURB WALL.
- CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20, SHEET C305.
- POTHOLE UTILITY AND VERIFY MIN. 1.5' CLEARANCE BETWEEN STORM PIPE. NOTIFY ENGINEER IF MIN. CLEARANCE NOT MAINTAINED.
- REMOVE EXISTING BOLLARDS.
- SDR 35 PVC STORM PIPE.
- NOT USED.
- FIELD FIT EXPANDED GUTTER PAN PER WALLA WALLA CO STD DRAWING CG-02, SHEET C301. ENSURE DRAINAGE TO CATCH BASIN.
- DOUBLE WRAP WATER MAIN WITH 10 MILIMETERS OF PLASTIC AND ENCASE IN 6 INCHES OF CDF FOR MIN. 10 FEET ON EITHER SIDE OF CATCH BASIN PER CITY OF WALLA WALLA STD PLAN 1-7, SHEET C306.
- FIELD FIT TOP OF CURB WALL FLUSH WITH IRRIGATION WEIR BOX PER DETAIL, SHEET C307.
- SHALLOW MANHOLE PER CITY OF WALLA WALLA STANDARD PLAN 3-4, SHEET C306.
- REINSTALL EXISTING STORM PIPE TO MH-4 AT MINIMUM 1% SLOPE.
- THICKENED CEMENT CONC. SIDEWALK WITH THICKENED EDGE PER DETAIL, SHEET C307.

FINAL PLANS

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SIDEWALK AND DRIVEWAY IMPROVEMENT PLAN FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



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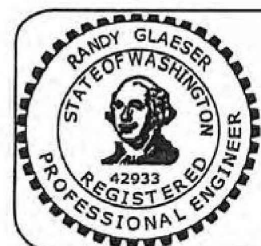
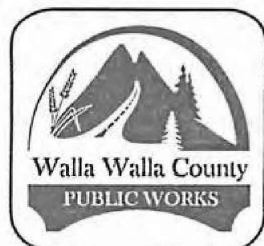
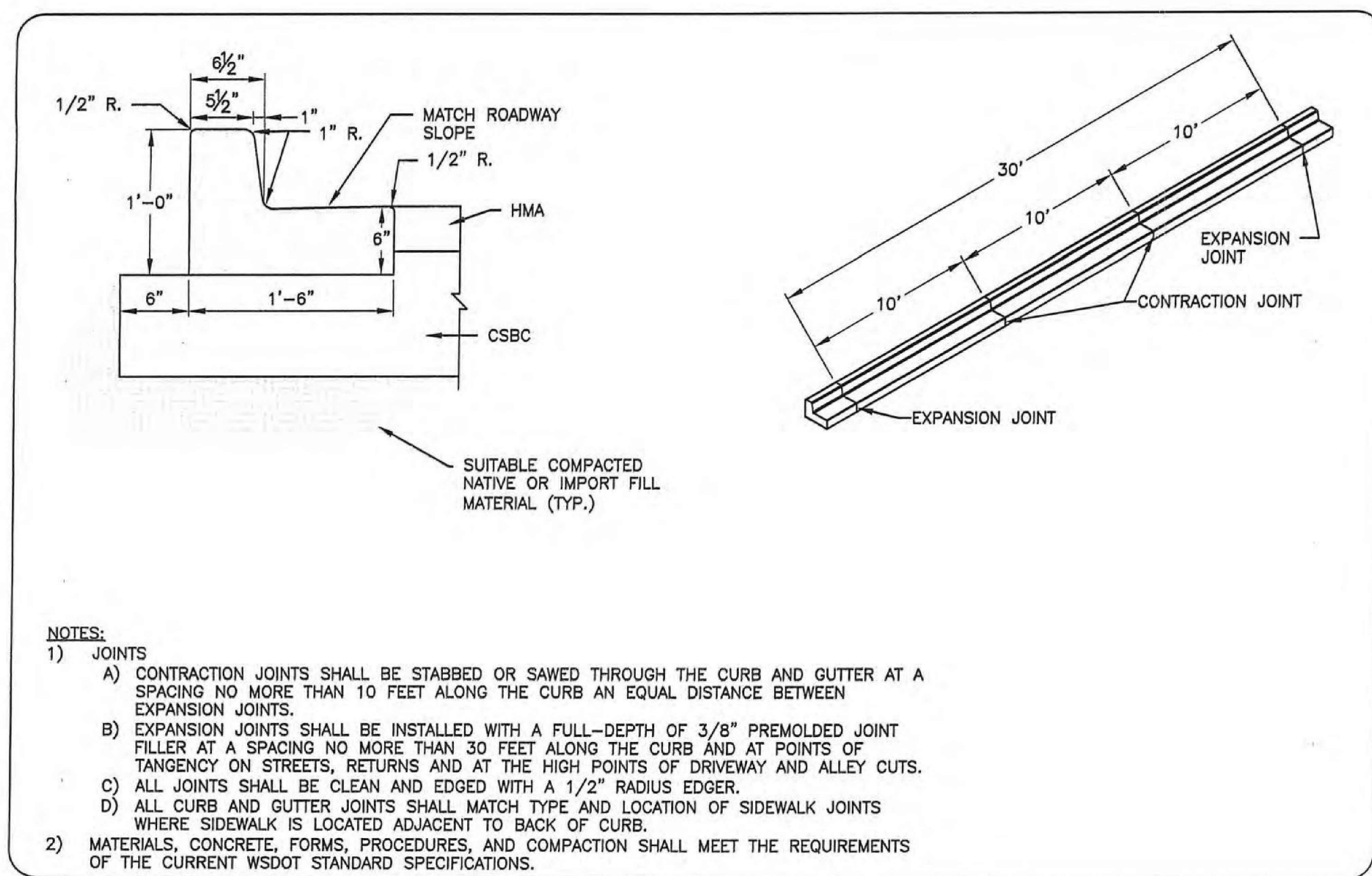
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SHEET 9 OF 20



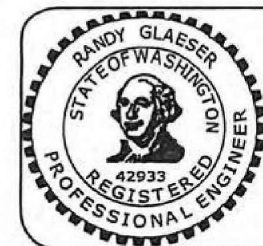
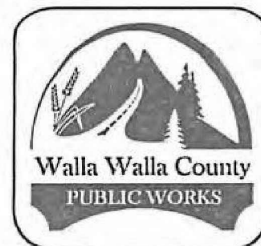
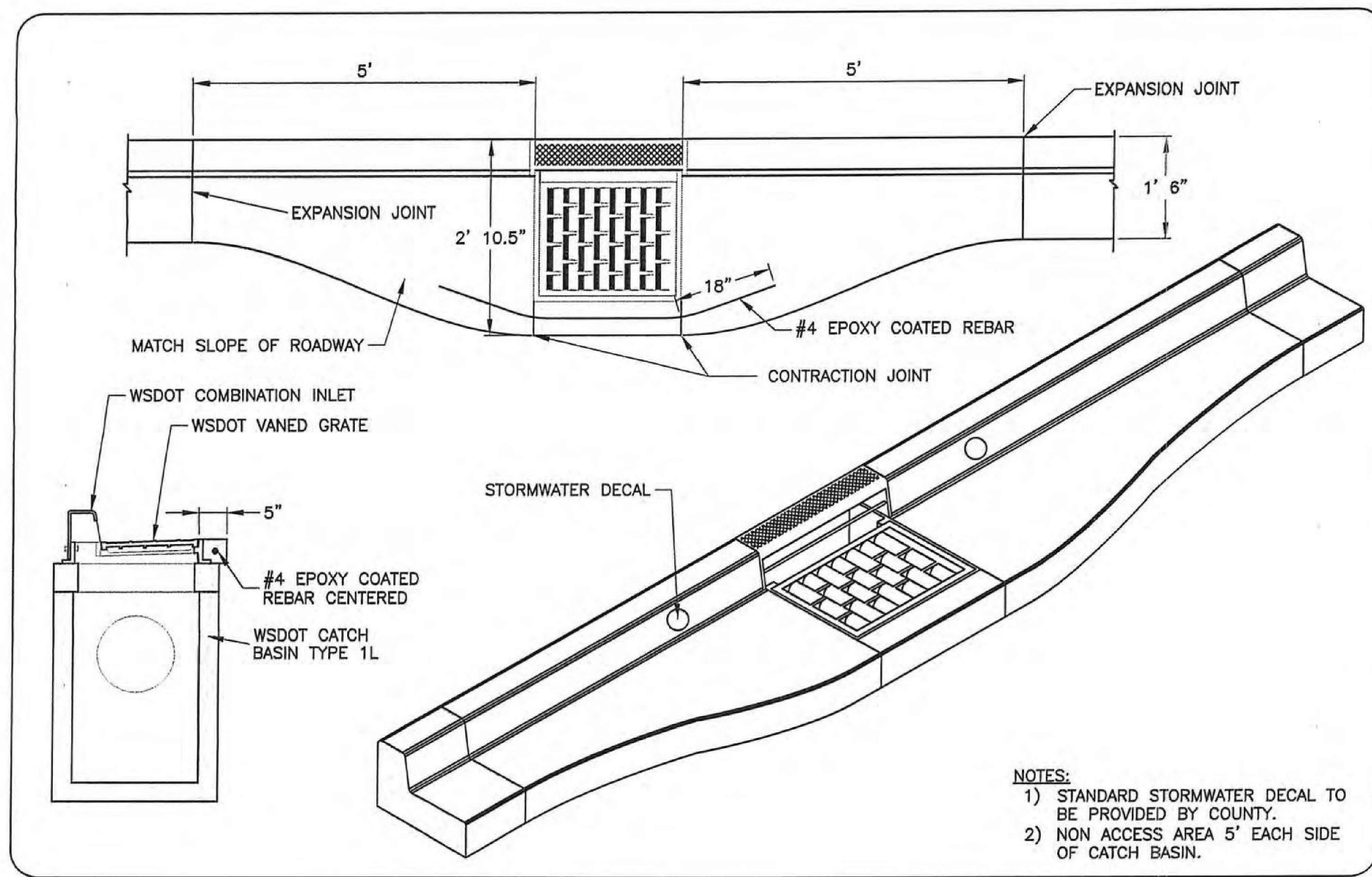
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APPROVED BY:  
*Randy Glaeser*  
DATE: 9/18/2015

ROAD DESIGN STANDARDS  
TYPICAL CURB AND  
GUTTER

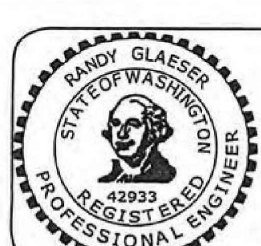
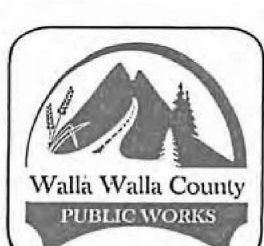
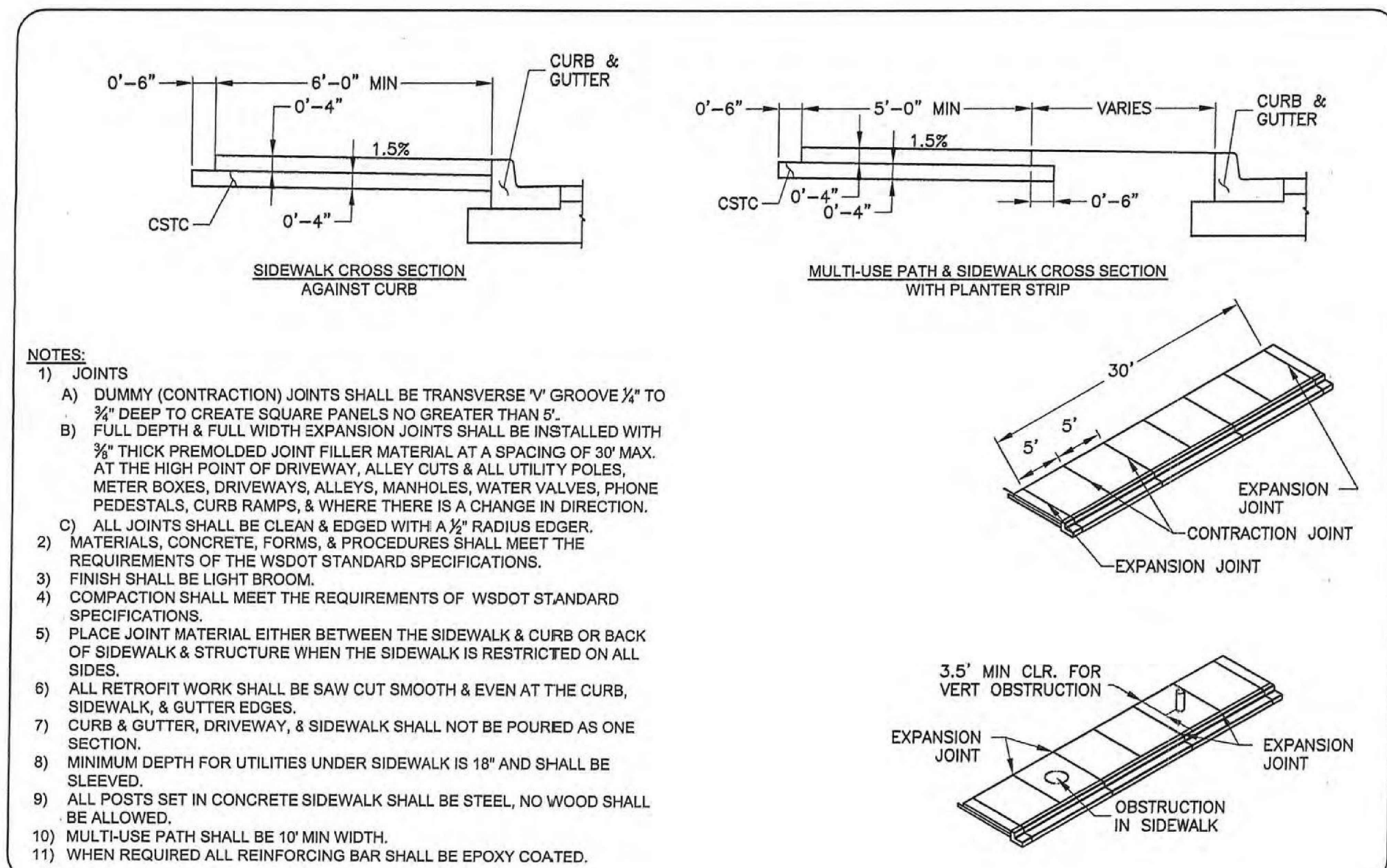
FIGURE  
CG-01



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DATE: 9/18/2015

ROAD DESIGN STANDARDS  
TYPICAL CURB AND  
GUTTER AT INLET

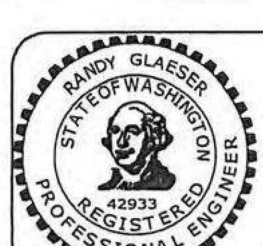
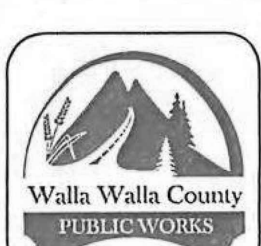
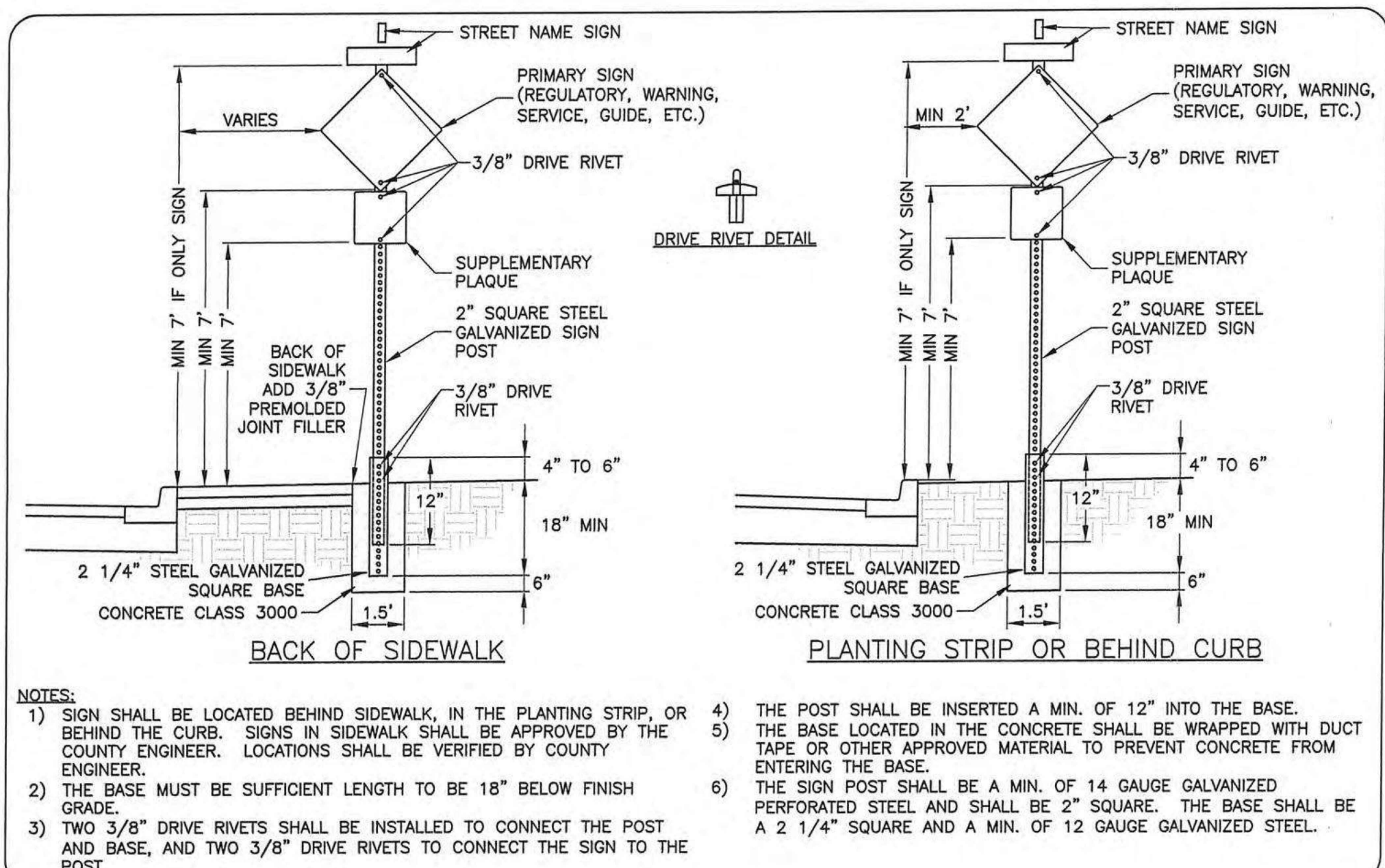
FIGURE  
CG-02



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*Randy Glaeser*  
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ROAD DESIGN STANDARDS  
SIDEWALK & MULTI USE PATH  
CROSS-SECTION

FIGURE  
SW-05



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*Randy Glaeser*  
DATE: 9/18/2015

ROAD DESIGN STANDARDS  
STEEL STREET SIGN  
POST DETAIL

FIGURE  
R-14

COUNTY STANDARD DETAILS FOR:

ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



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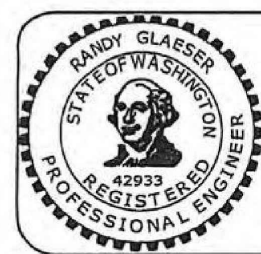
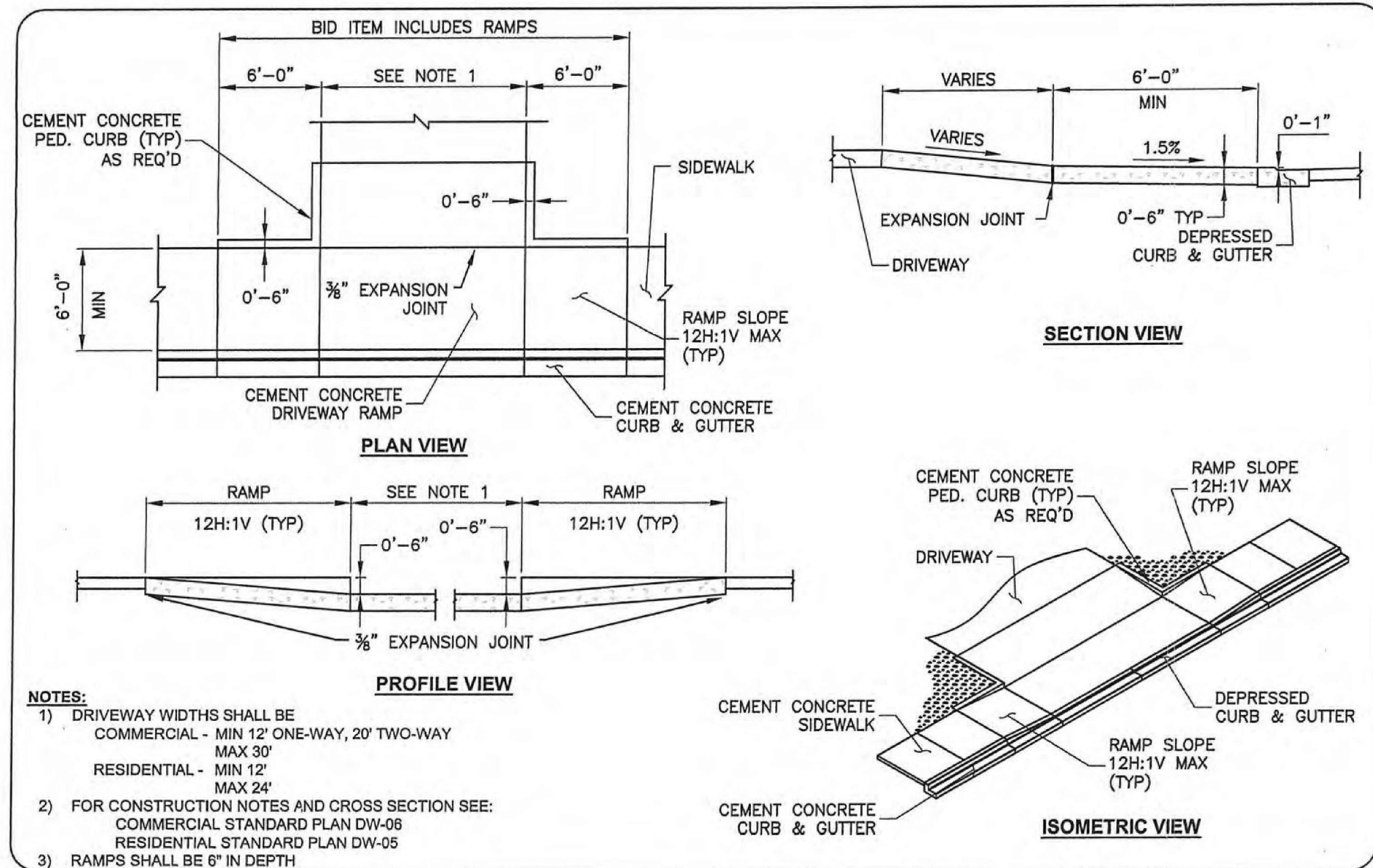
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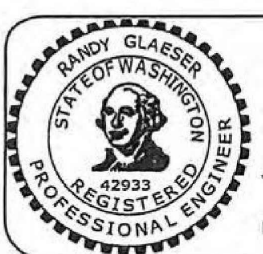
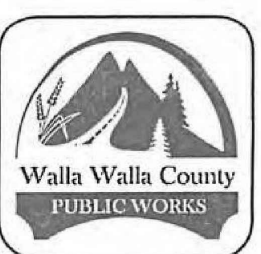
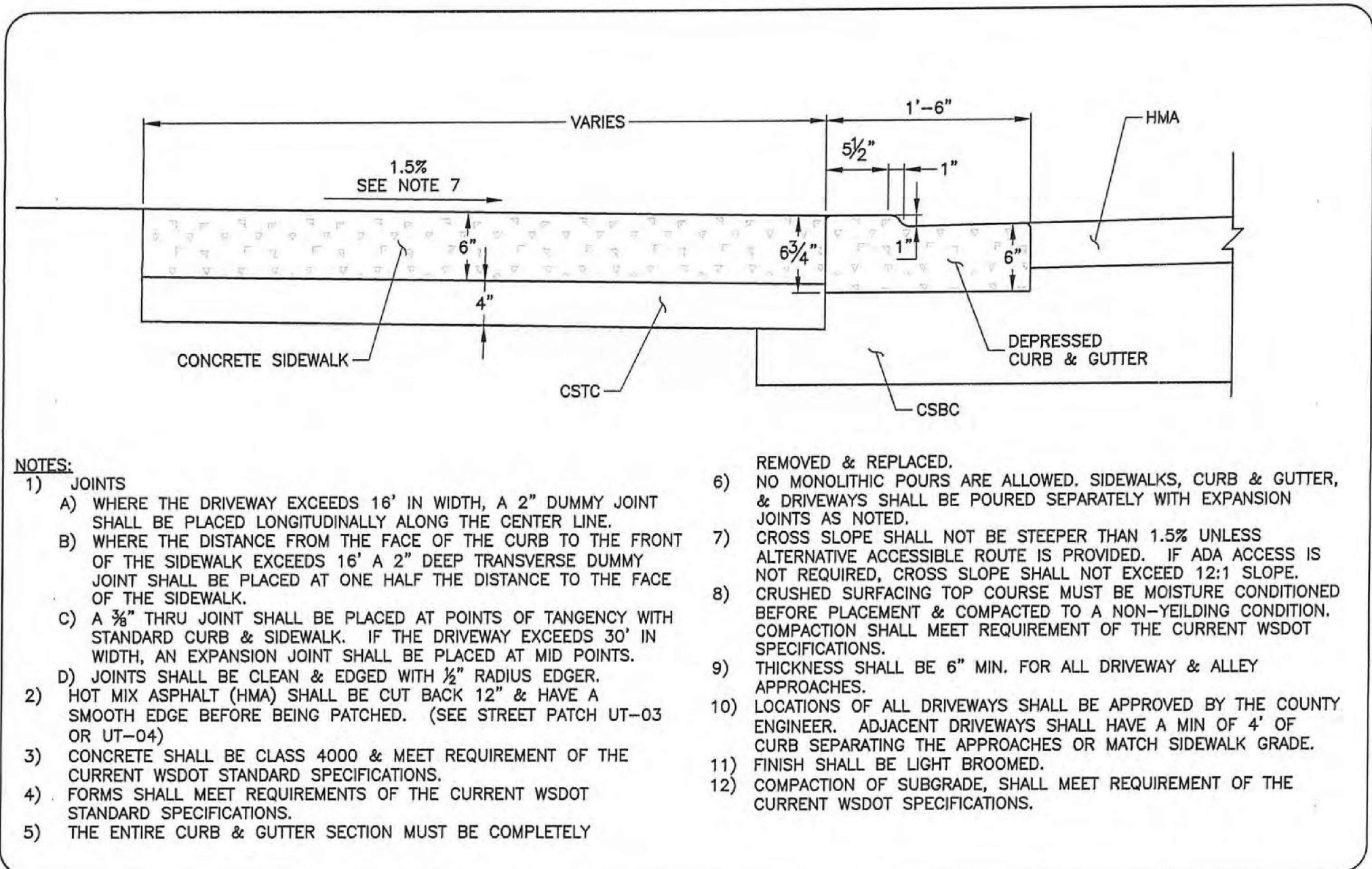
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**ROAD DESIGN STANDARDS**  
CEMENT CONCRETE DRIVEWAY &  
ALLEY APPROACH WITH CURB  
TIGHT SIDEWALK

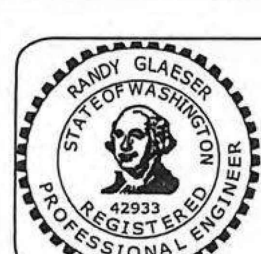
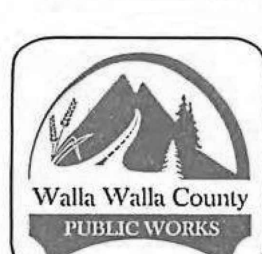
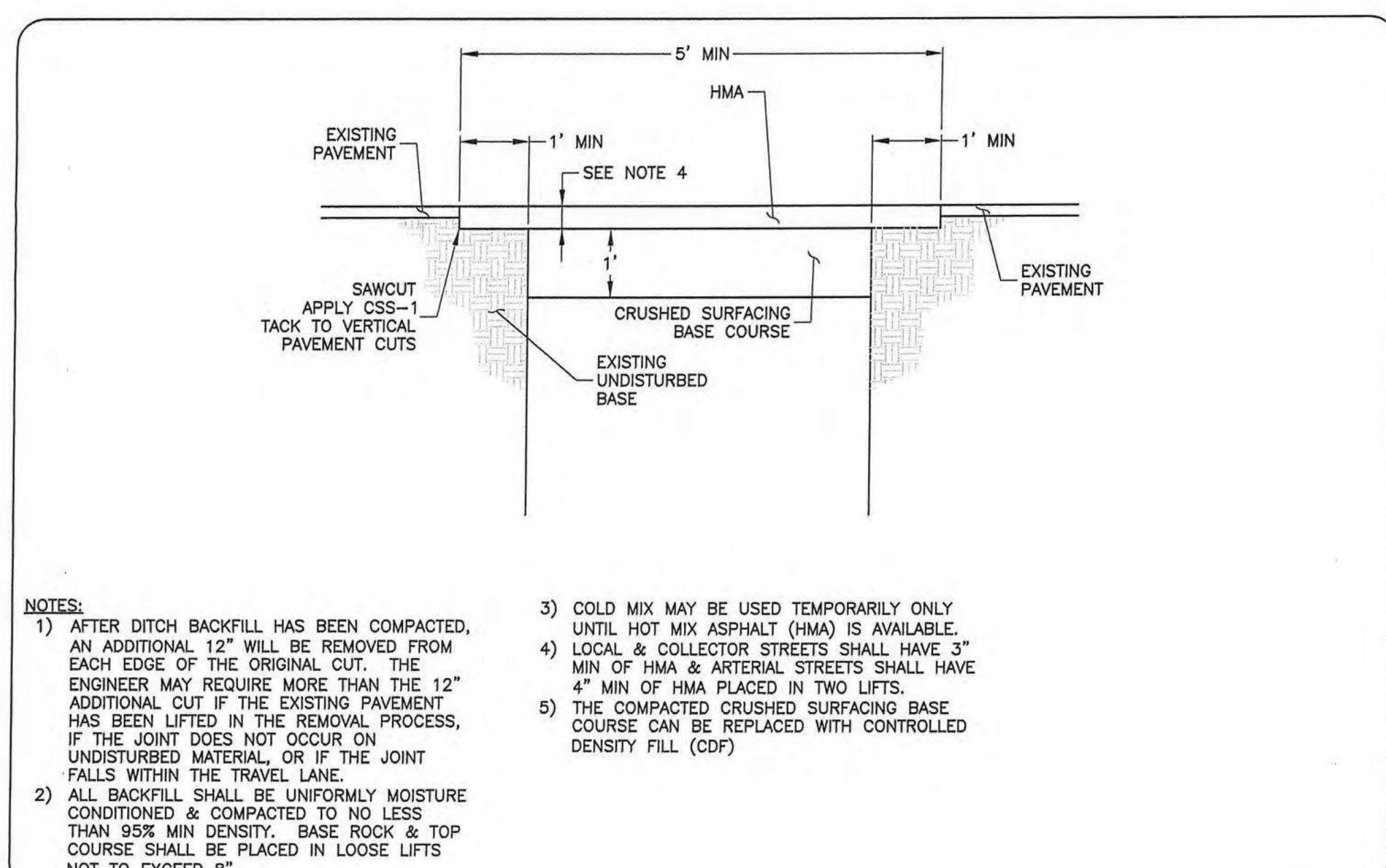
FIGURE  
DW-02



APPROVED BY: *[Signature]*  
DATE: 9/8/2015

**ROAD DESIGN STANDARDS**  
RESIDENTIAL DRIVEWAY  
APPROACH CROSS-SECTION

FIGURE  
DW-05



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**ROAD DESIGN STANDARDS**  
TYPICAL PATCH FOR  
FLEXIBLE PAVEMENT

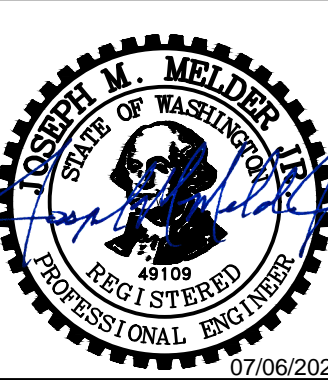
FIGURE  
UT-03

COUNTY STANDARD DETAILS FOR:

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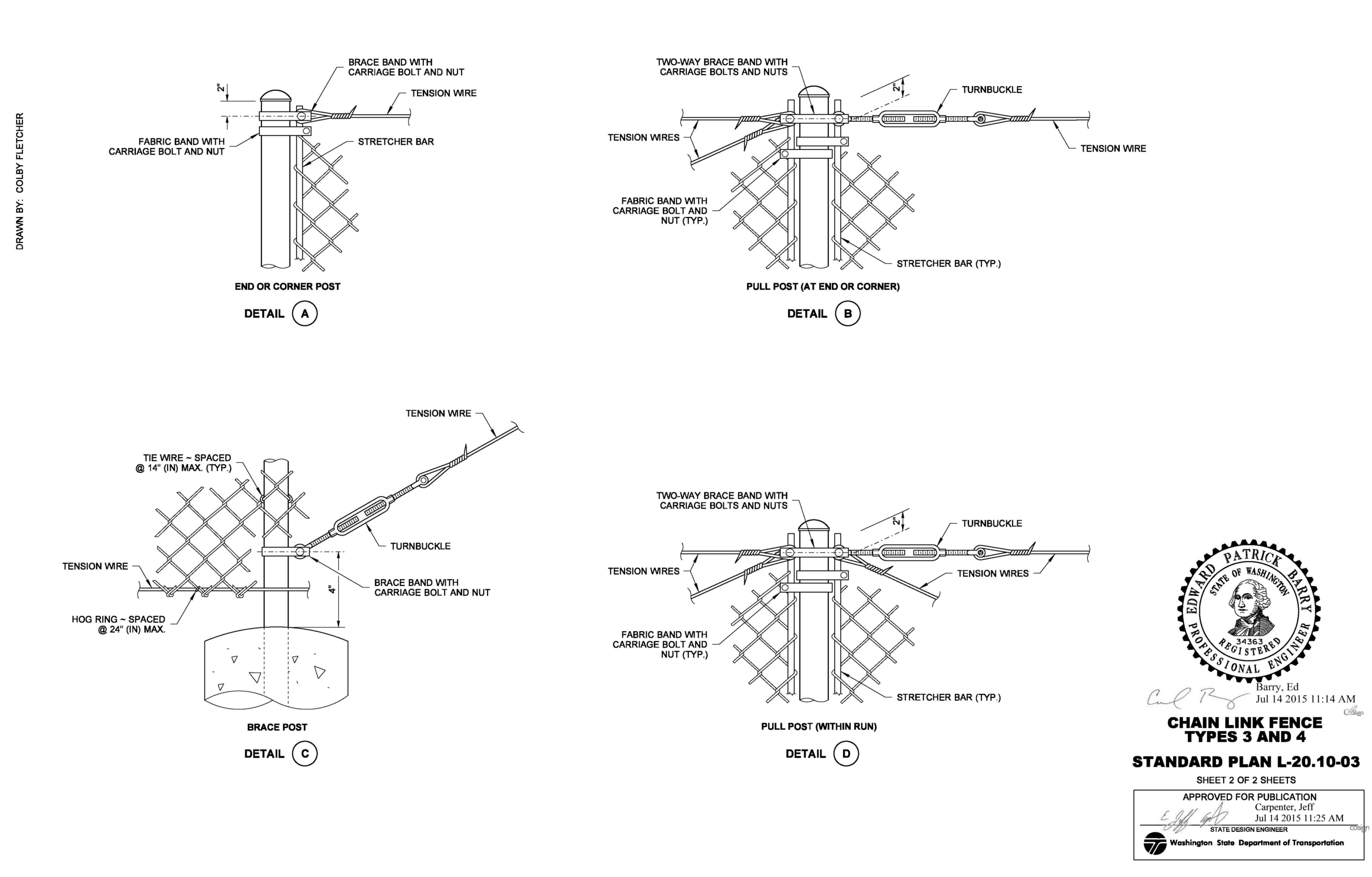
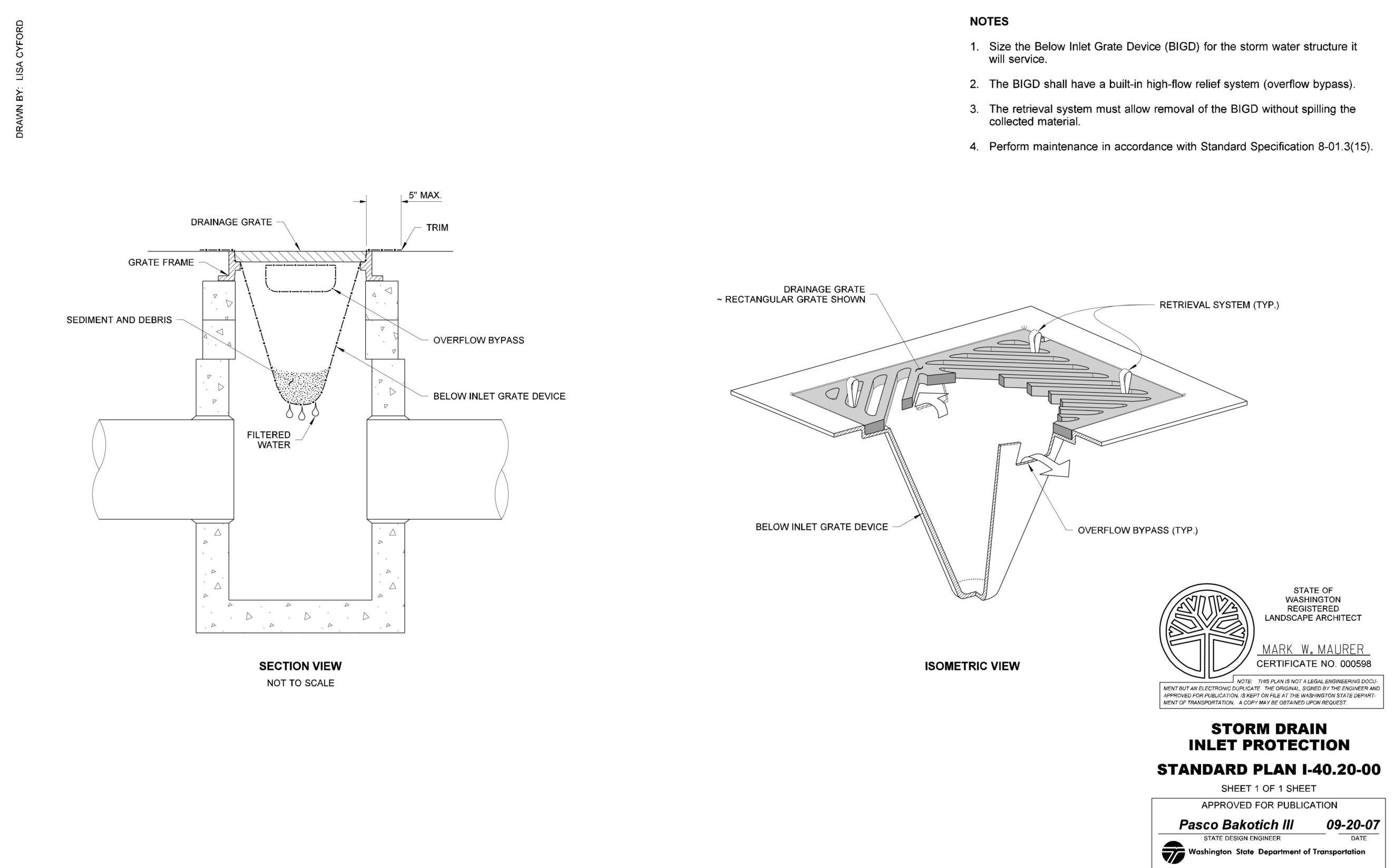
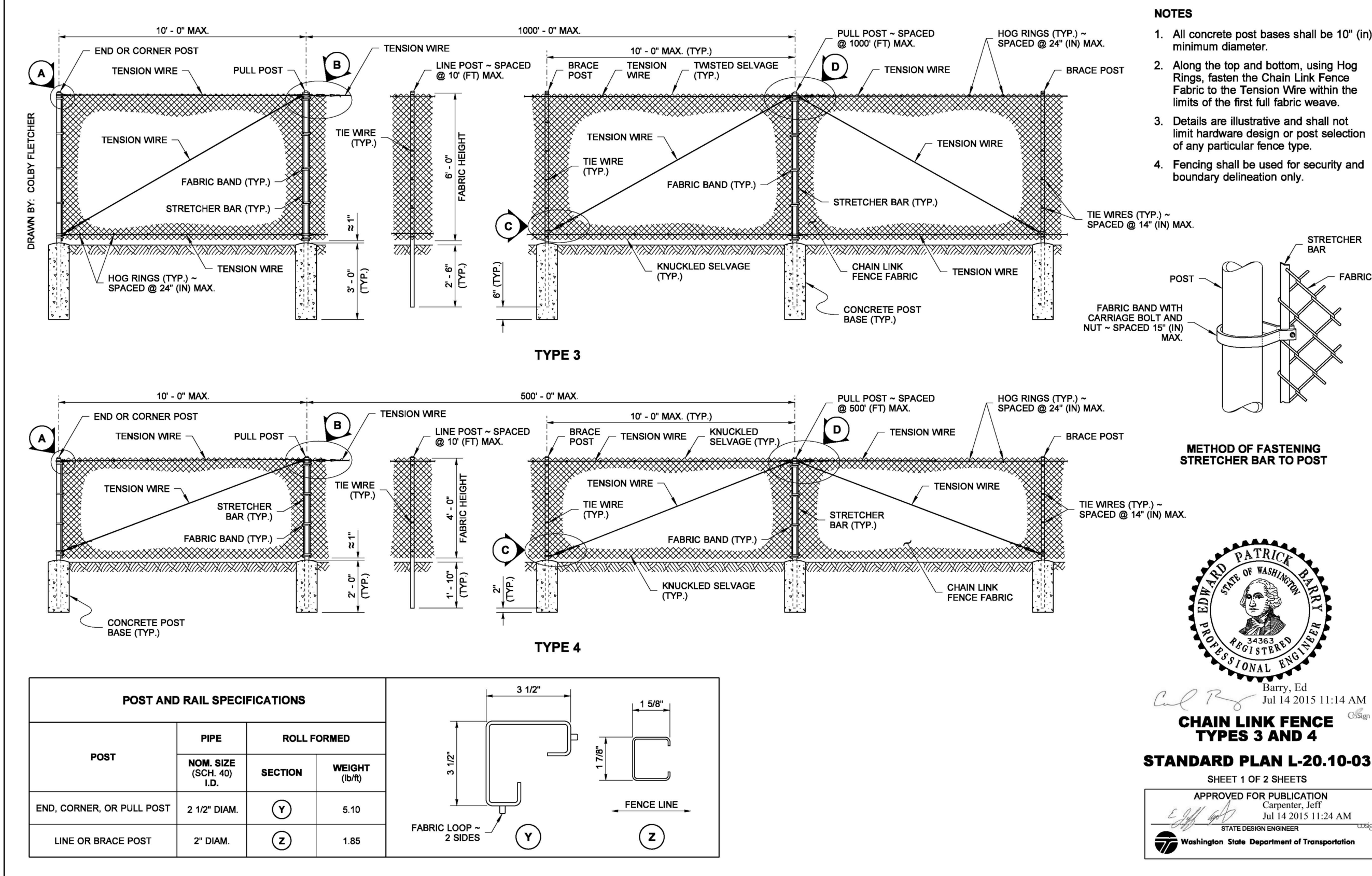
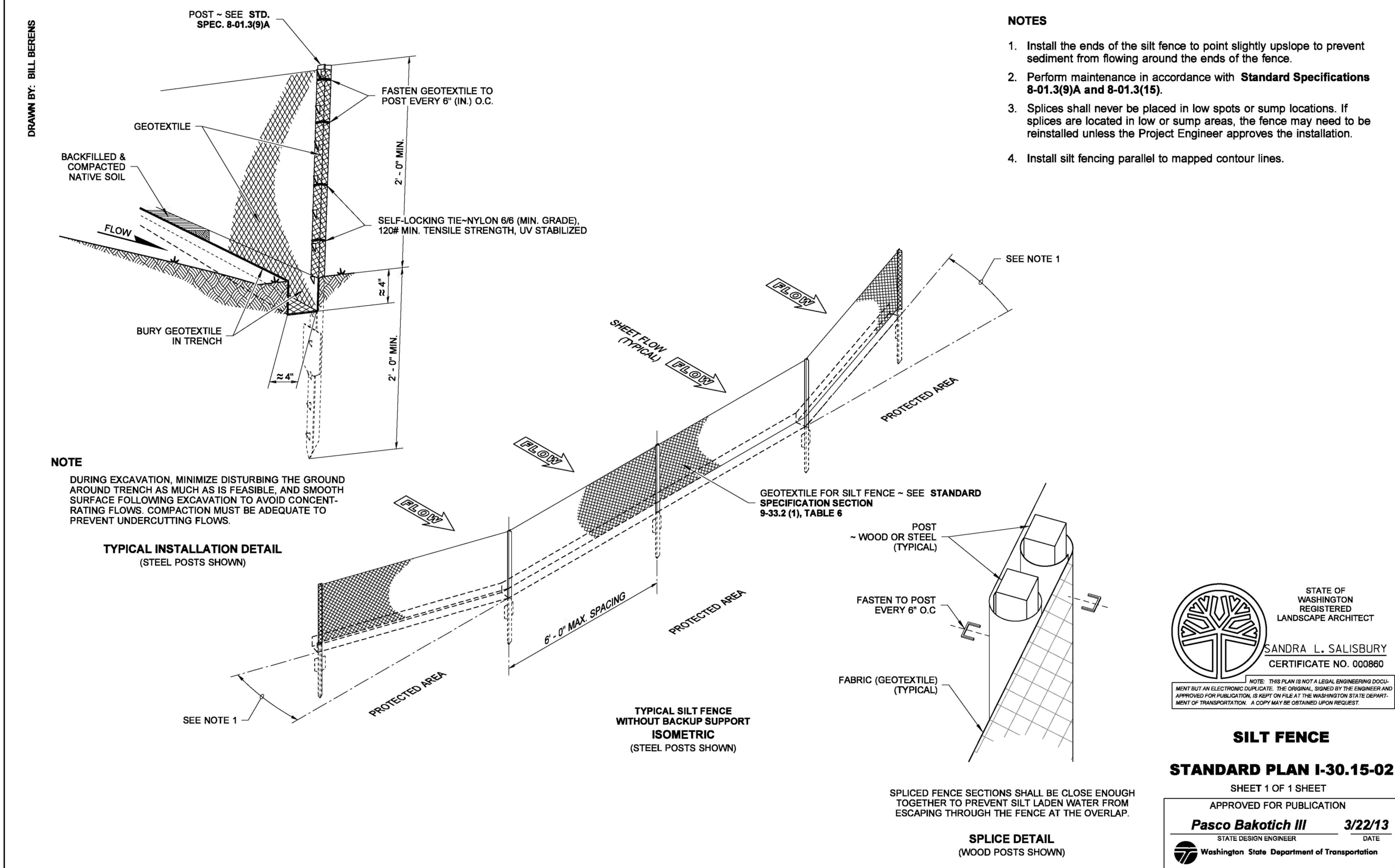
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WSDOT DETAILS FOR:  
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A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON

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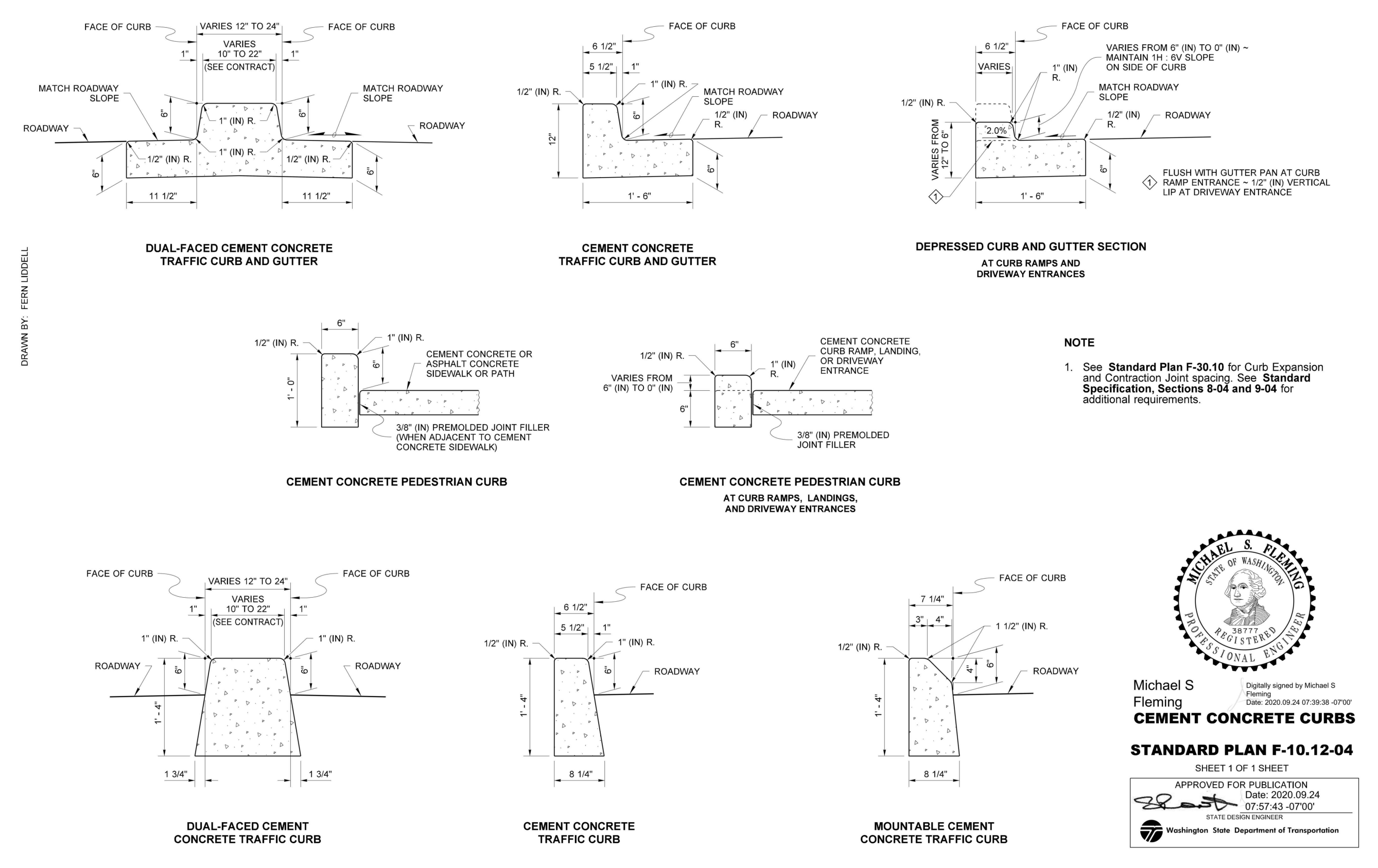
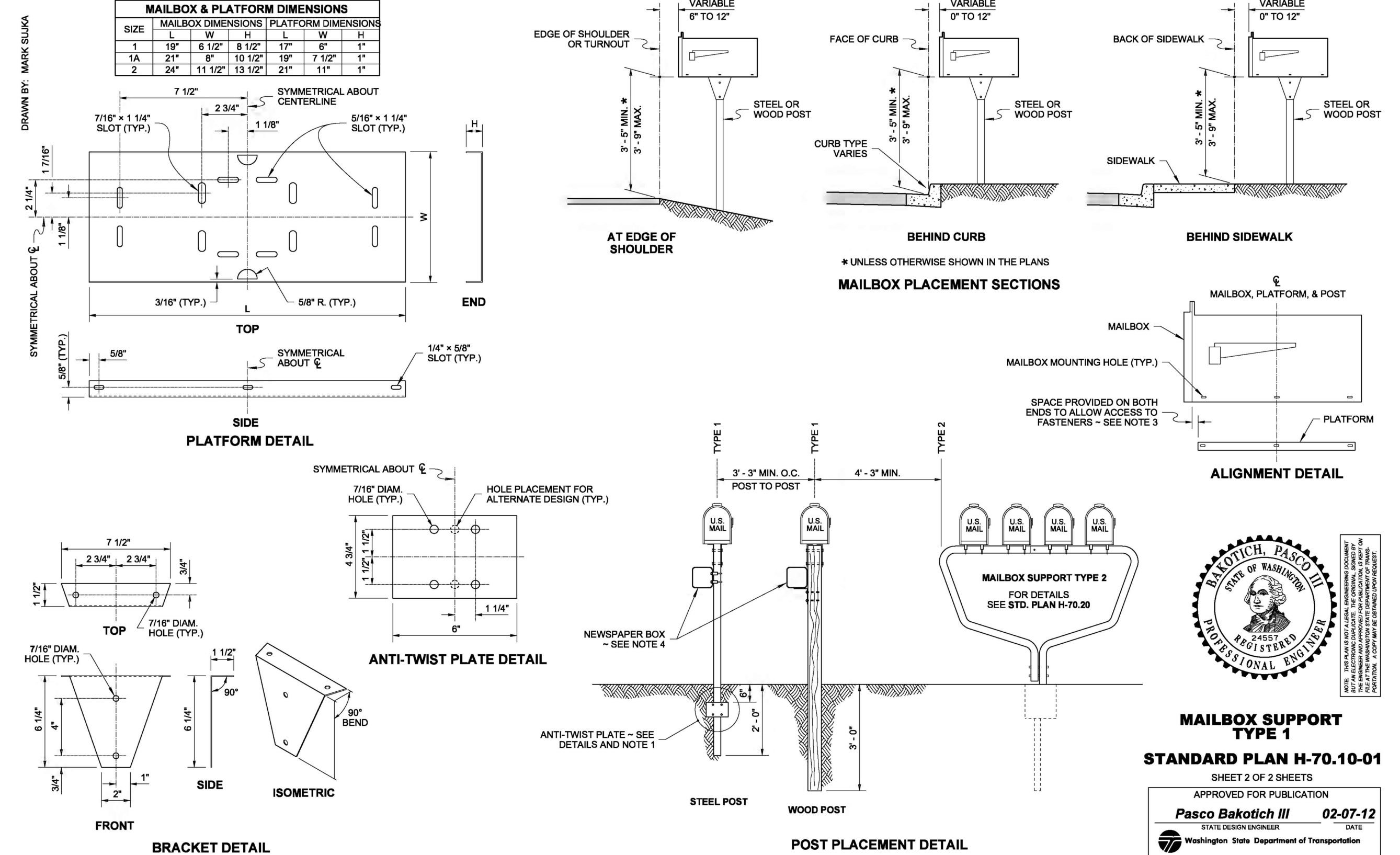
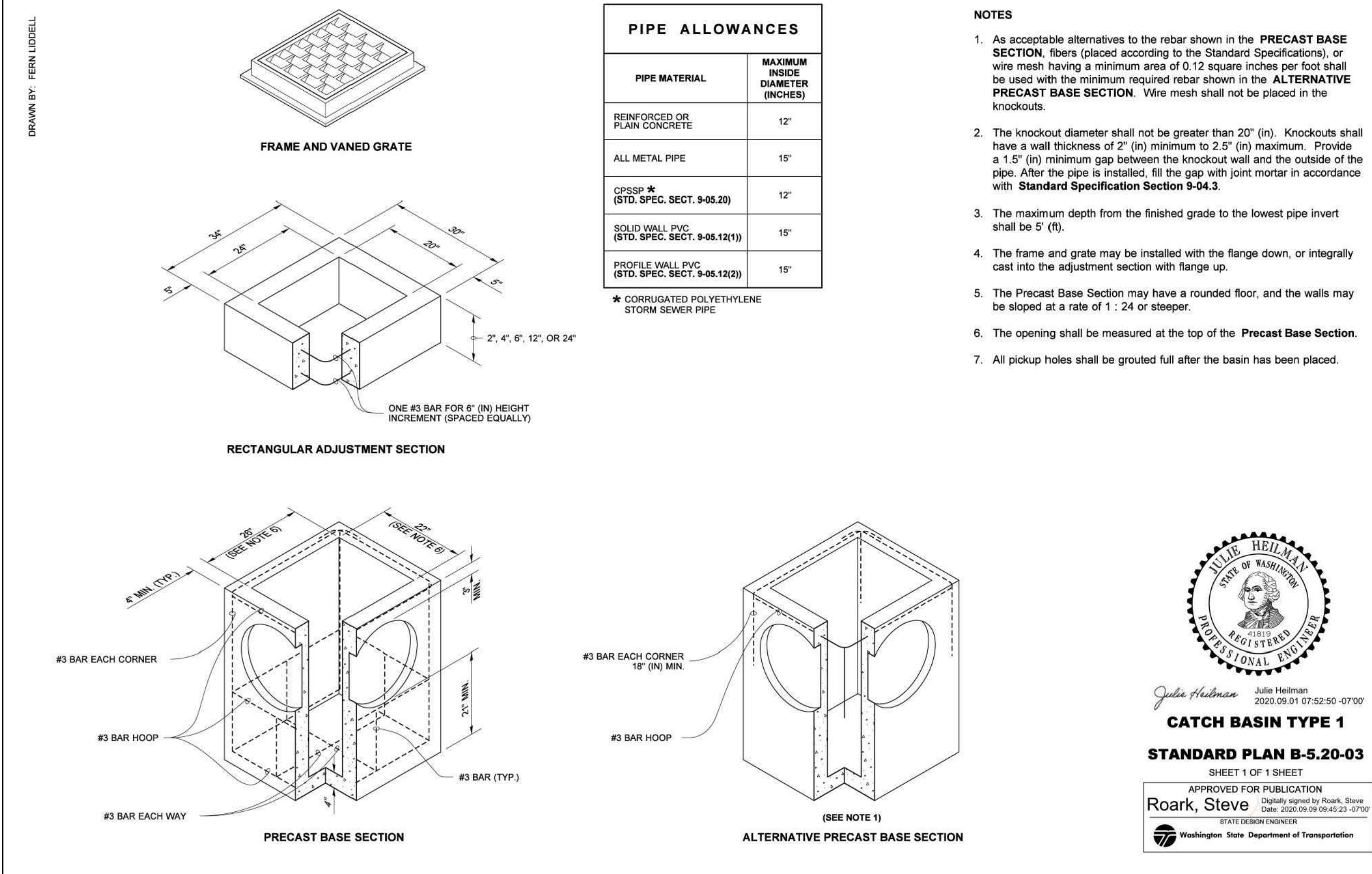
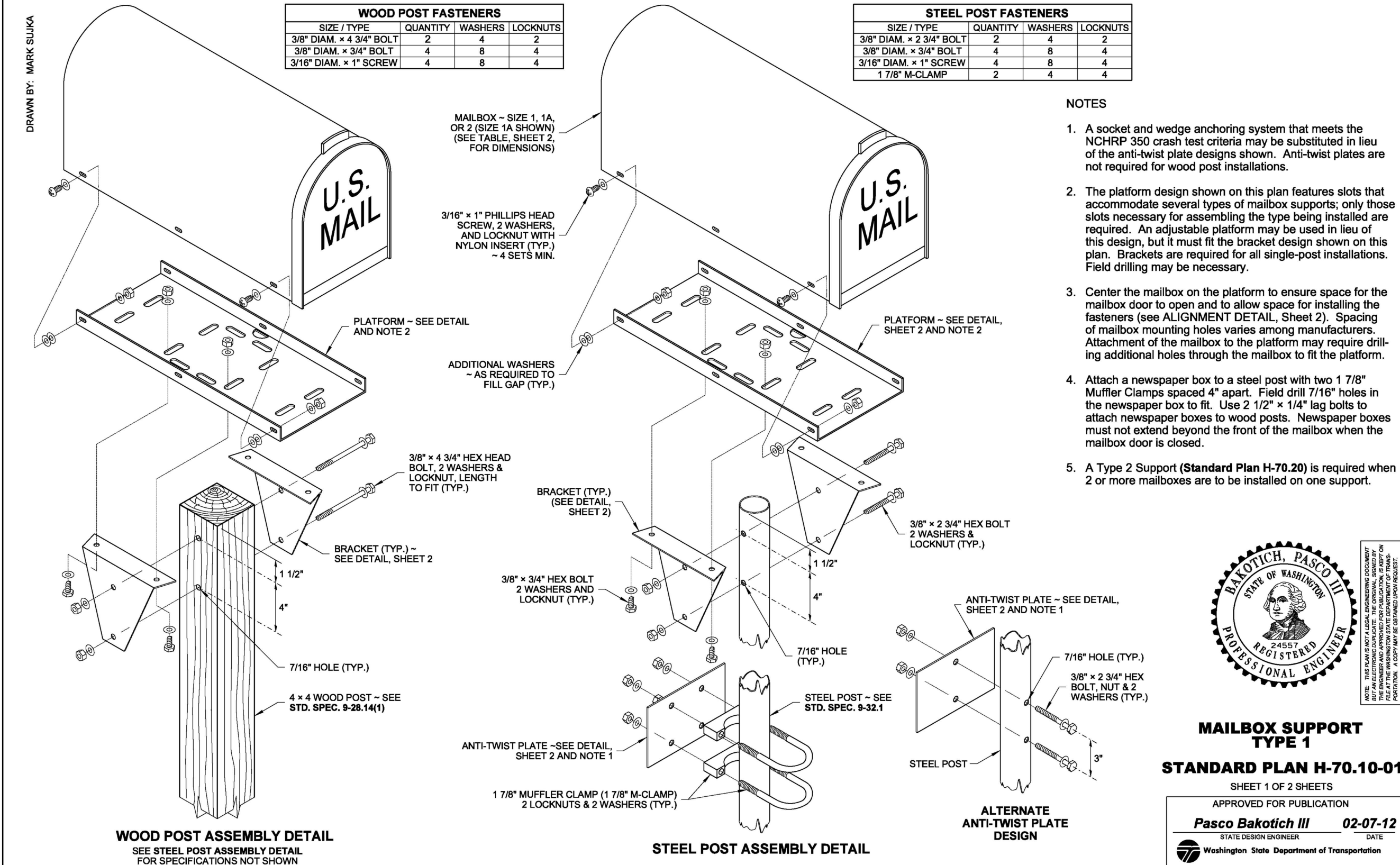
**JOSEPH M. MELDER**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
07/06/2022

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67750.000  
SHEET ID  
**C303**  
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FINAL PLANS

WSDOT DETAILS FOR:

ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON

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REGISTERED PROFESSIONAL ENGINEER  
07/06/2022

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**C304**

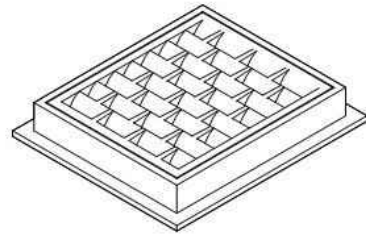
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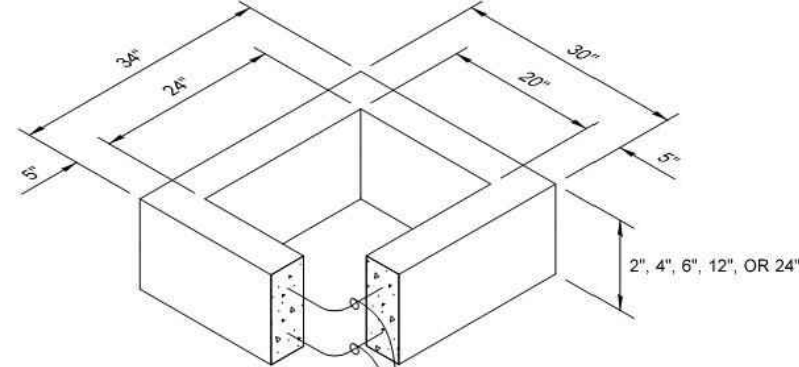




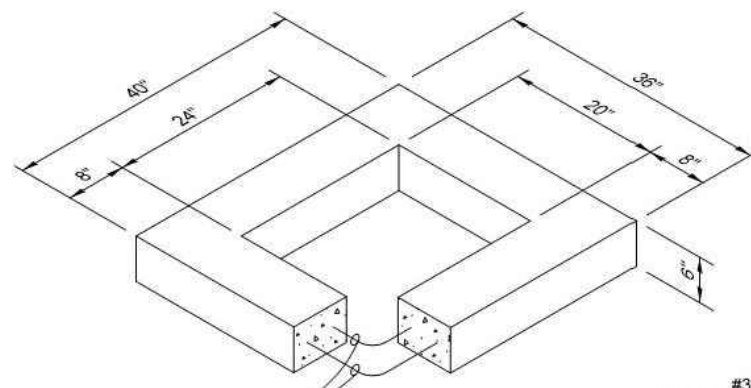
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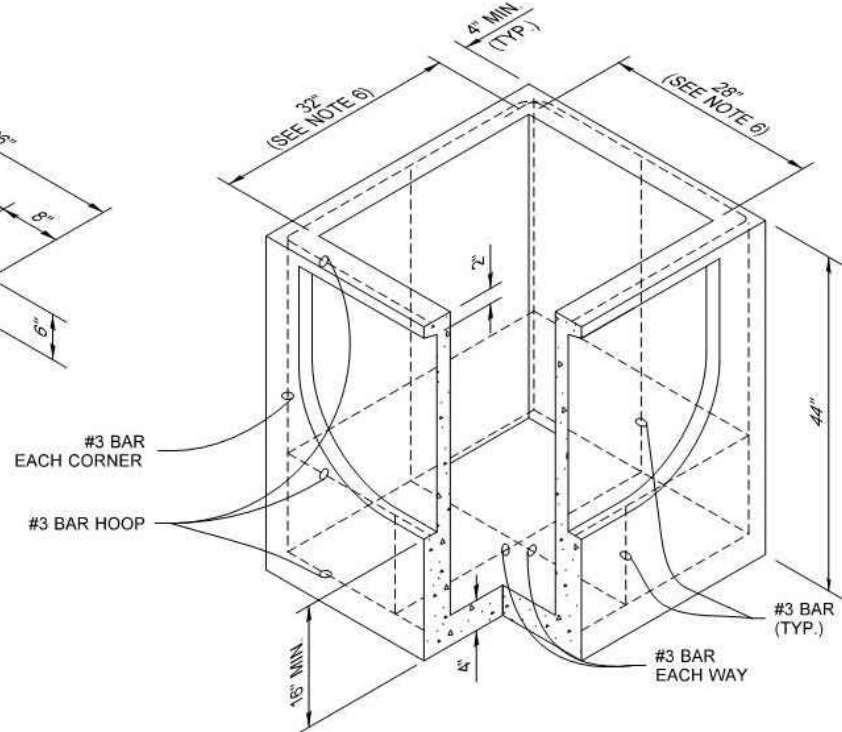
FRAME AND VANED GRATE



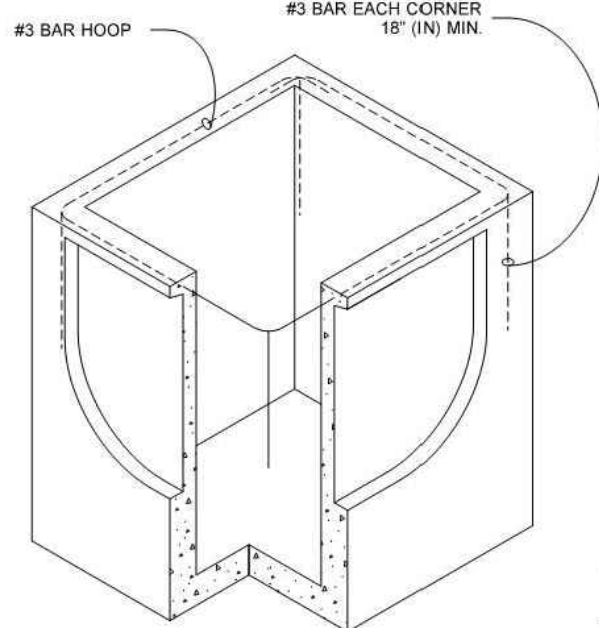
RECTANGULAR ADJUSTMENT SECTION



REDUCING SECTION



PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	18"
ALL METAL PIPE	21"
CPSSP ★ (STD. SPEC. SECT. 9-05.20)	18"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	21"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	21"

★ CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot, shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout shall not be greater than 26" (in), in any direction. 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.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.



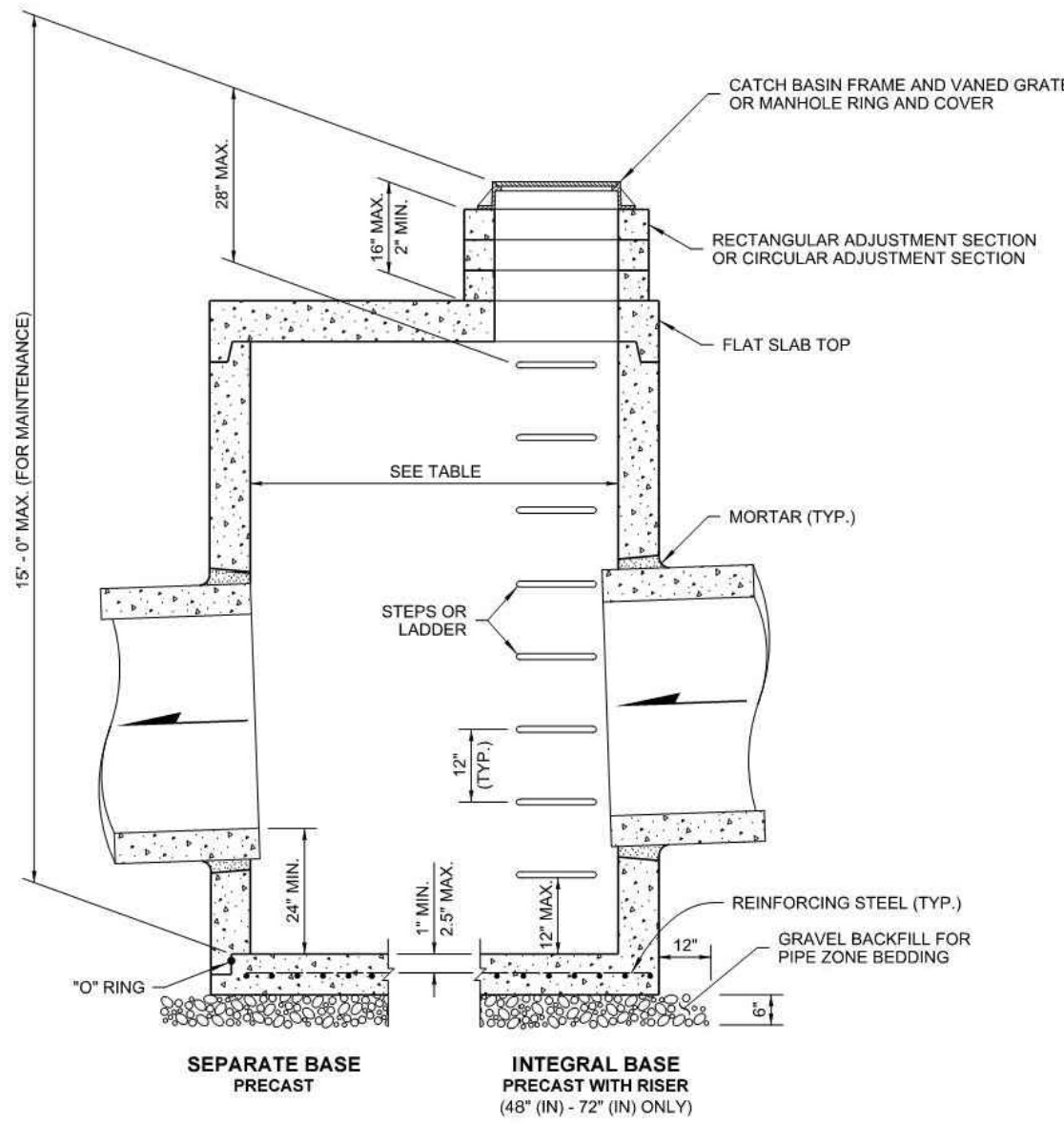
Heilman, Julie  
Jan 25 2017 2:56 PM  
CATCH BASIN TYPE 1L

STANDARD PLAN B-5-40-02

SHEET 1 OF 1 SHEET



DRAWN BY: FERN LIDELL



NOTES

- No steps are required when height is 4' or less.
- The bottom of the precast catch basin may be sloped to facilitate cleaning.
- The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- 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	CPSP PP ①	SOLID WALL PVC②	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)



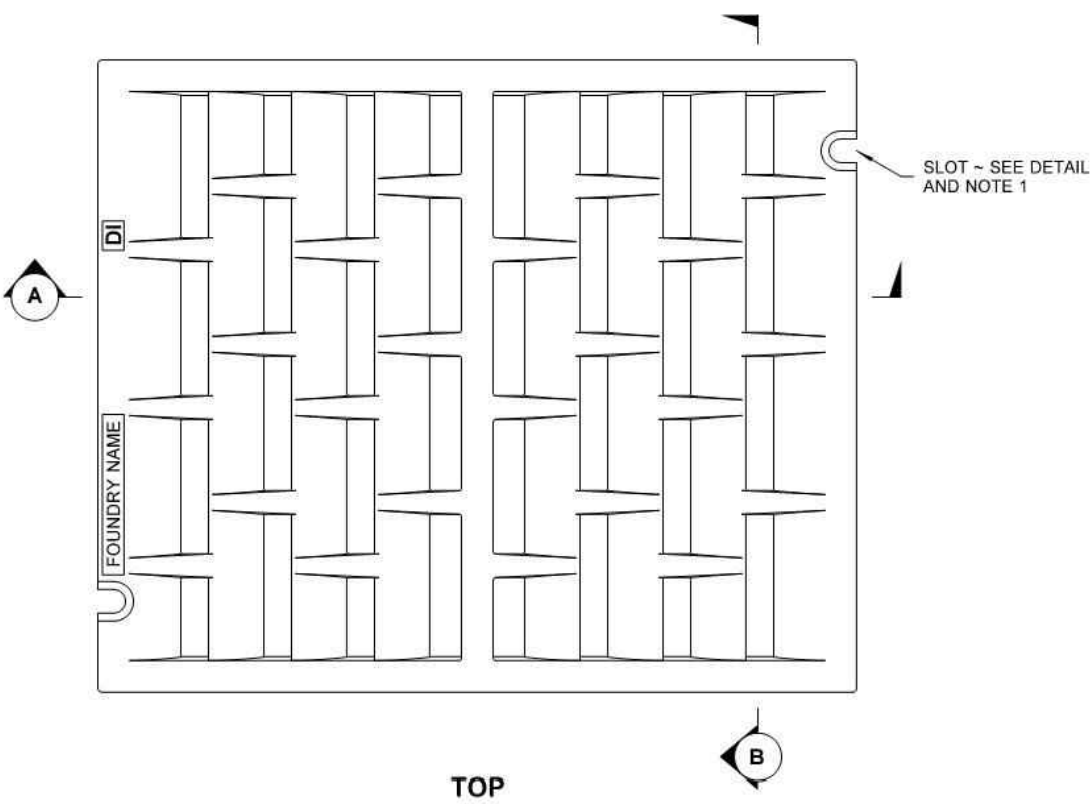
Heilman, Julie  
Feb 20 2018 12:49 PM  
CATCH BASIN TYPE 2

STANDARD PLAN B-10-20-02

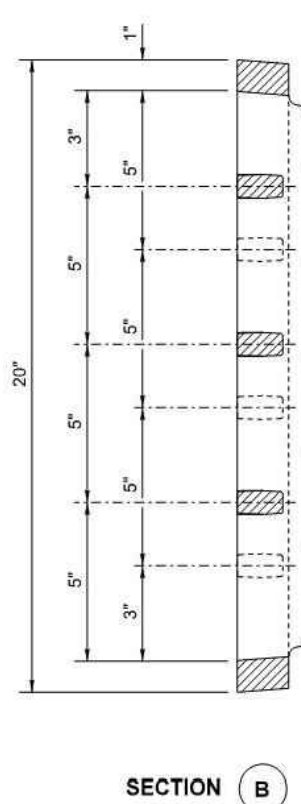
SHEET 1 OF 1 SHEET



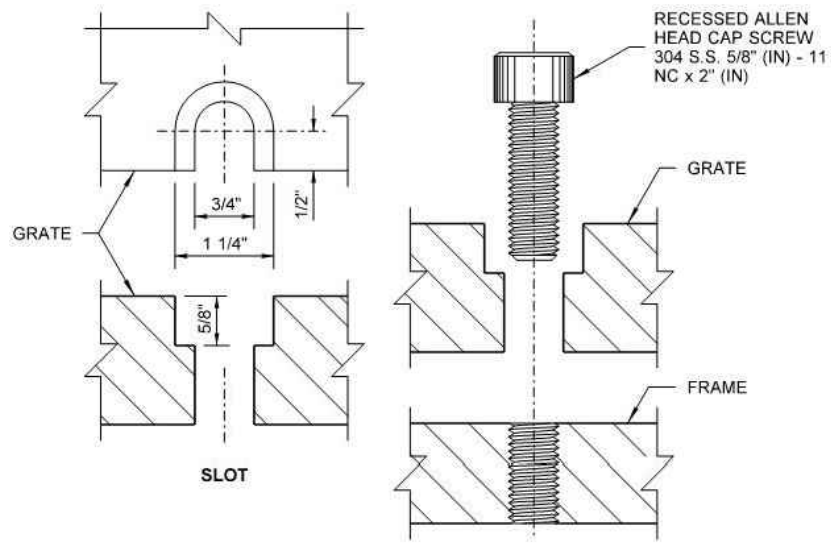
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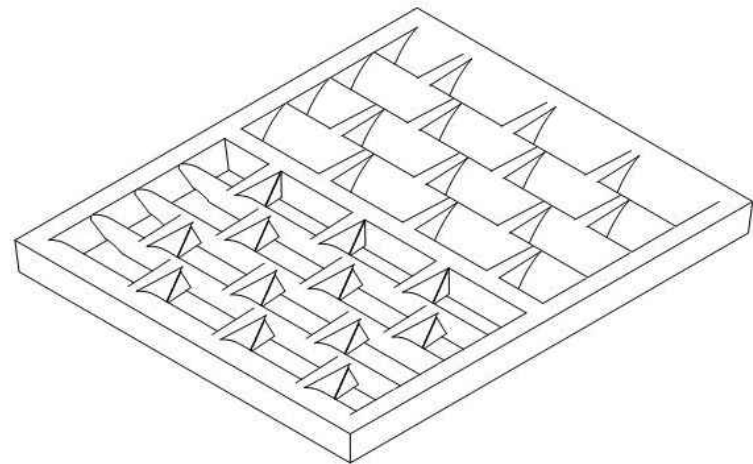
TOP



SECTION B



BOLT-DOWN DETAILS  
SEE NOTE 1



ISOMETRIC



Heilman, Julie  
Feb 20 2018 12:54 PM  
RECTANGULAR BI-DIRECTIONAL VANED GRATE

STANDARD PLAN B-30-40-03

SHEET 1 OF 1 SHEET



NOTES

- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
- Refer to Standard Specification Section 9-05.15, and 9-05.15(2) for additional requirements.
- For frame details, see Standard Plan B-30-10.

WSDOT DETAILS FOR:



DESIGNED:  
MDB/KCS  
CHECKED:  
MDB  
JUNE 2022  
67750.000

SHEET ID

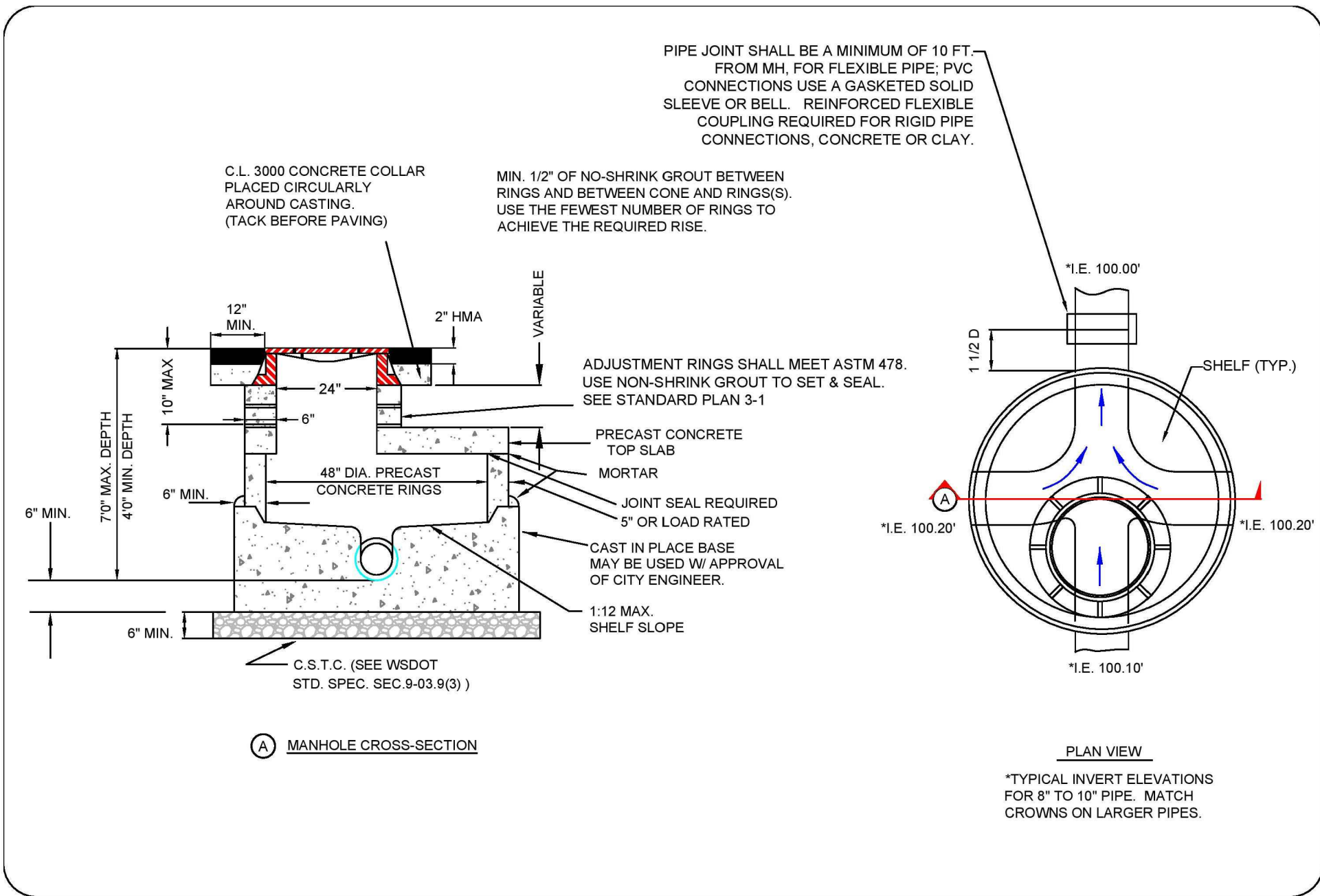
C305

SHEET 14 OF 20

FINAL PLANS



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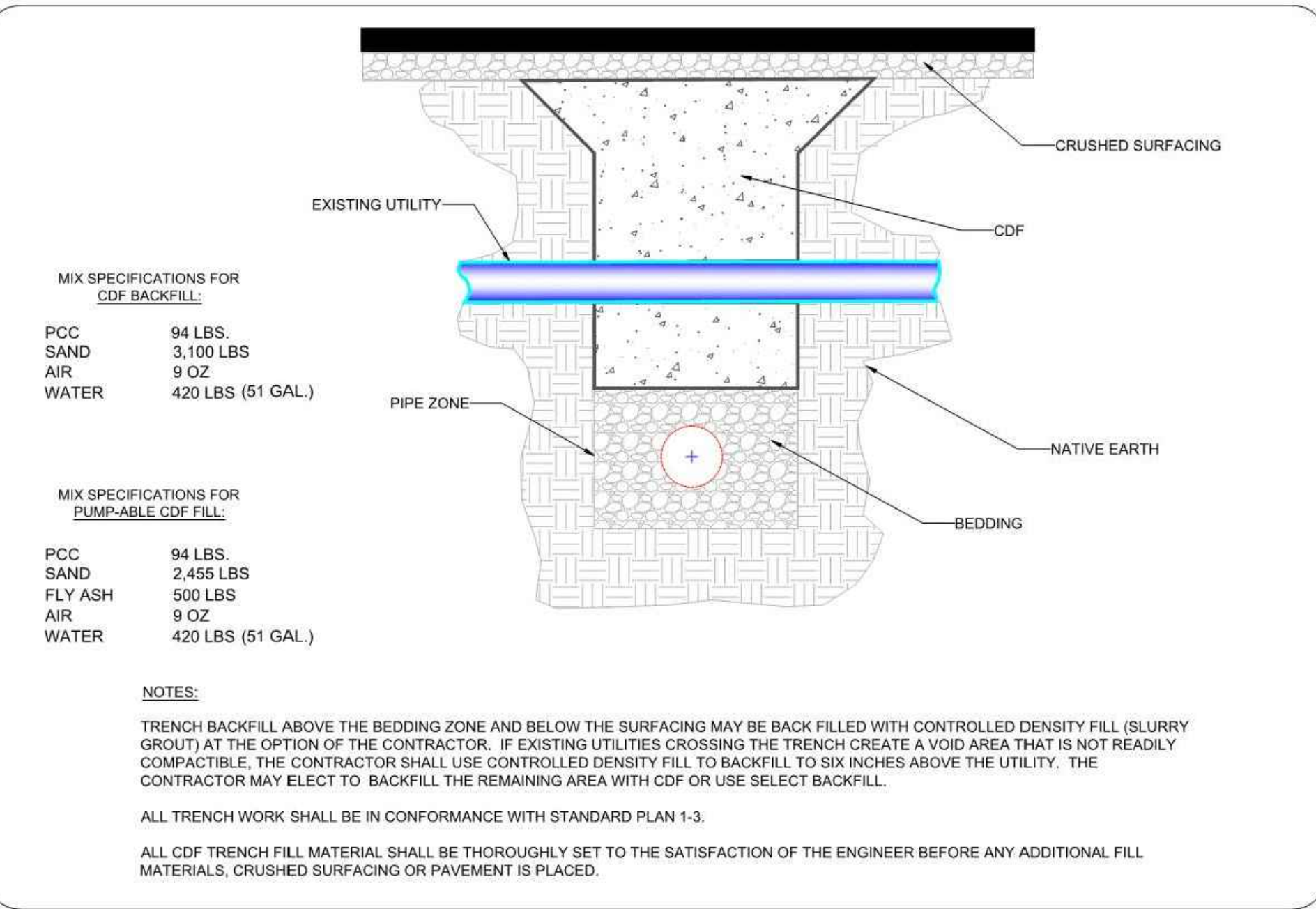
### SHALLOW MANHOLE

DATE:  
01/16/2018

APPROVED BY:

*Malik Khan*

STANDARD  
PLAN  
3-4



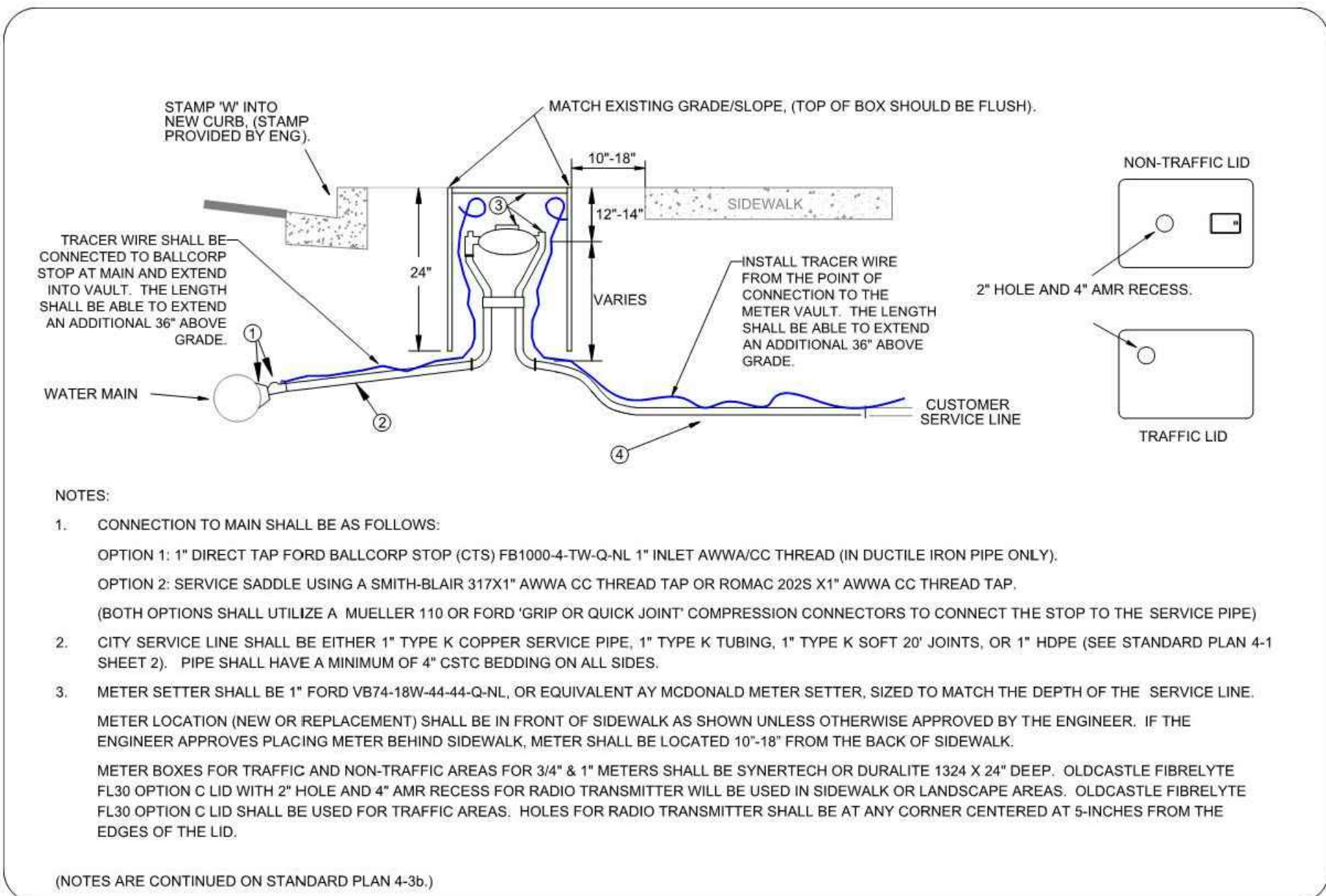
### CONTROLLED DENSITY FILL

DATE:  
12/30/2016

APPROVED BY:

*Malik Khan*

STANDARD  
PLAN  
1-7



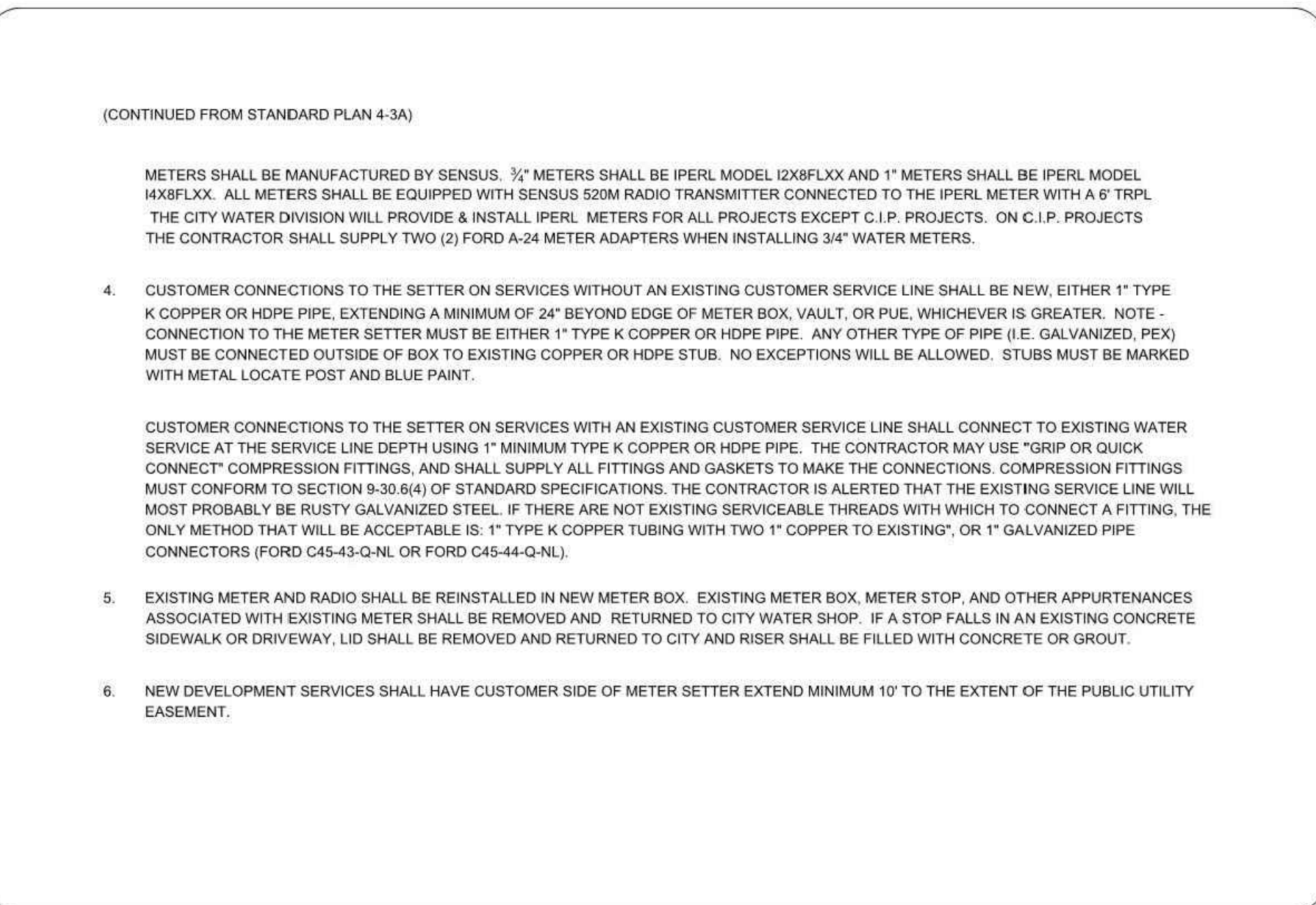
### 3/4" - 1" WATER METER & VAULT

DATE:  
04/27/2021

APPROVED BY:

*Malik Khan*

STANDARD  
PLAN  
4-3a



### 3/4" - 1" WATER METER & VAULT (CONTINUED)

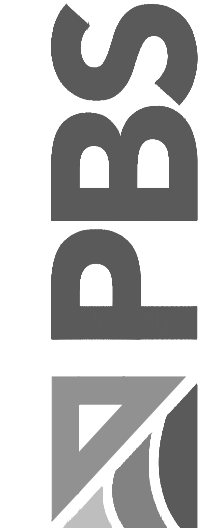
DATE:  
01/02/2020

APPROVED BY:

*Malik Khan*

STANDARD  
PLAN  
4-3b

PBS Engineering and  
Environmental Inc.  
5 N Colville St, Ste 200  
Walla Walla, WA 99062  
509.850.3020  
pbsusa.com



MISCELLANEOUS DETAILS FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



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JUNE 2022  
67750.000

SHEET ID  
**C306**

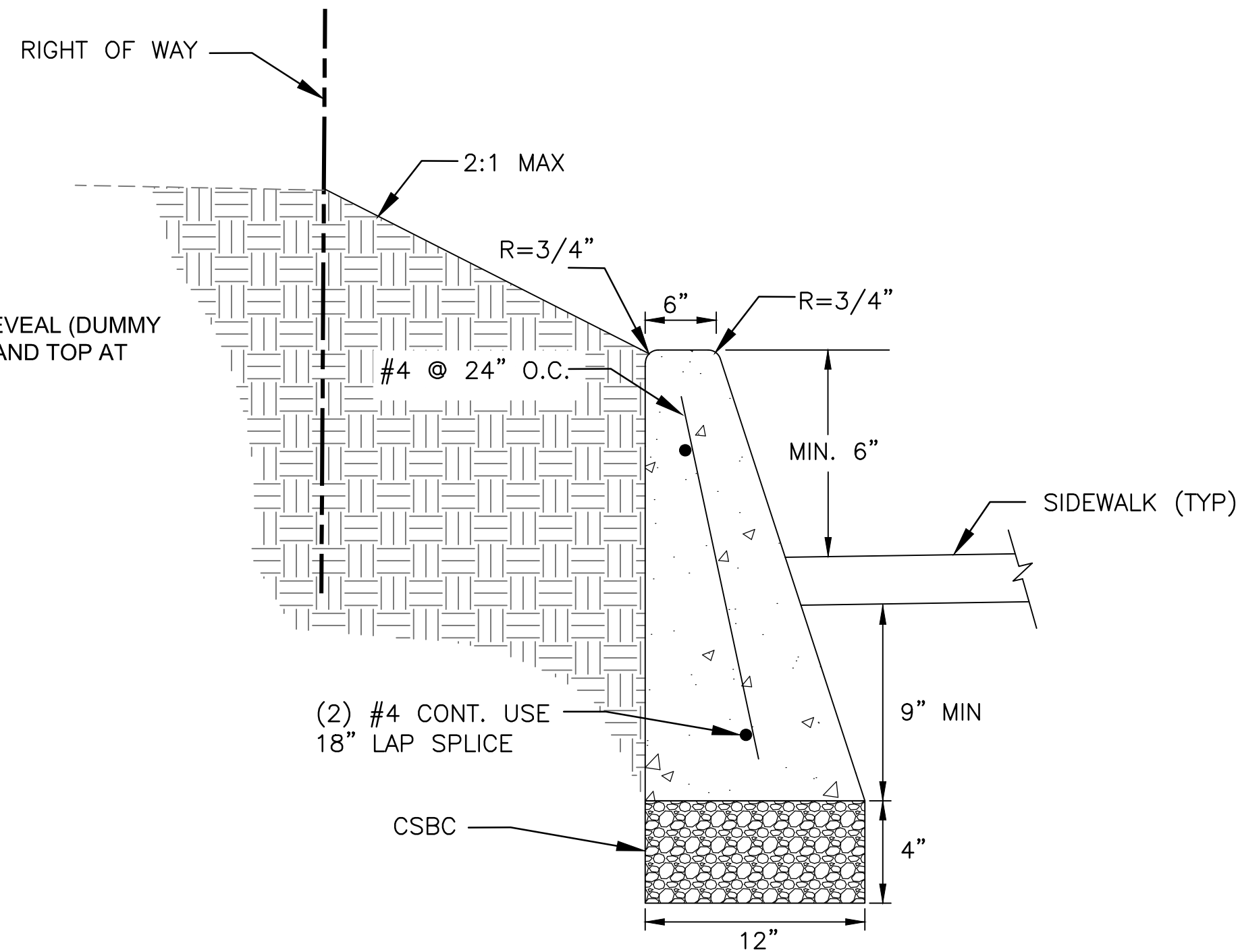
SHEET 15 OF 20

FINAL PLANS

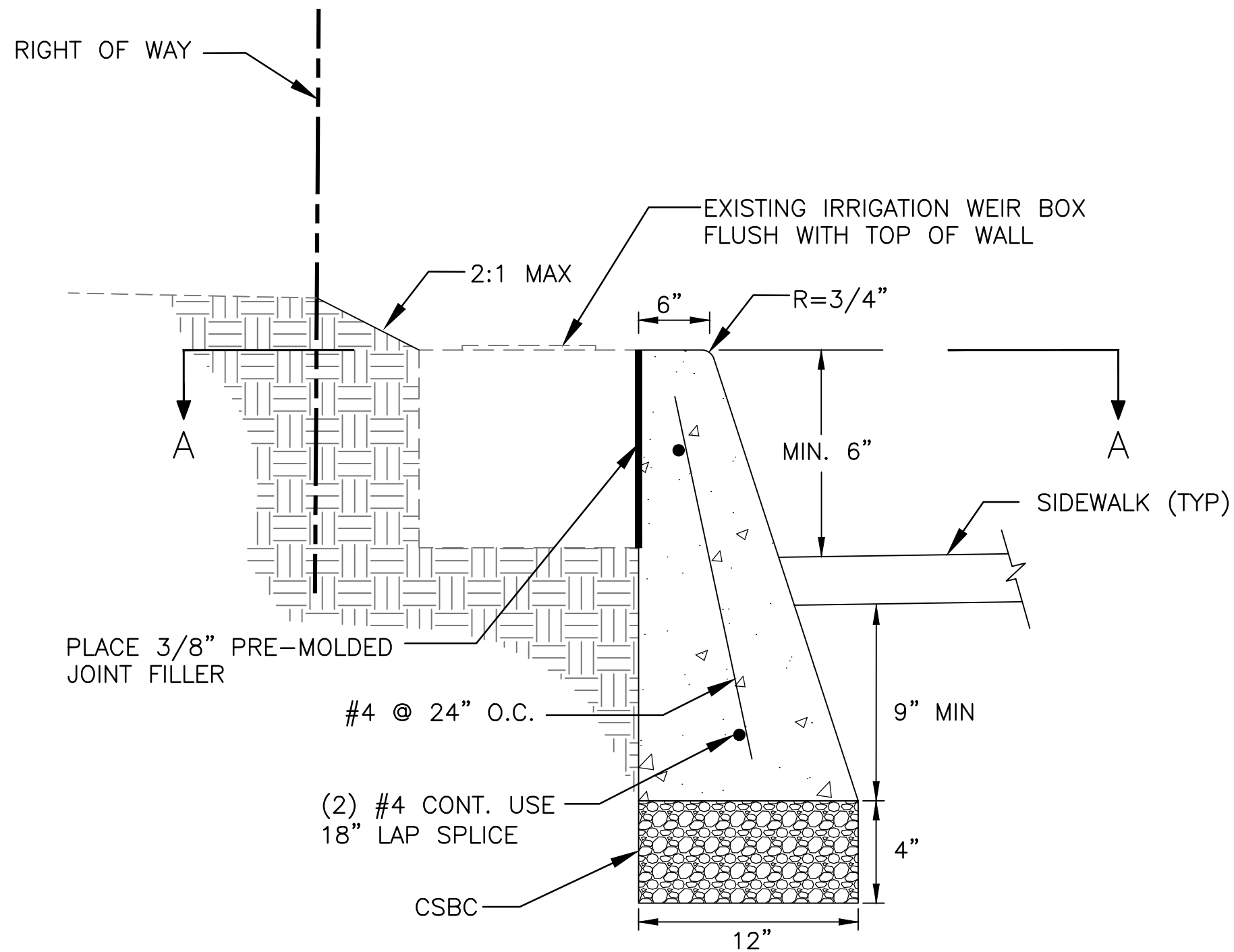


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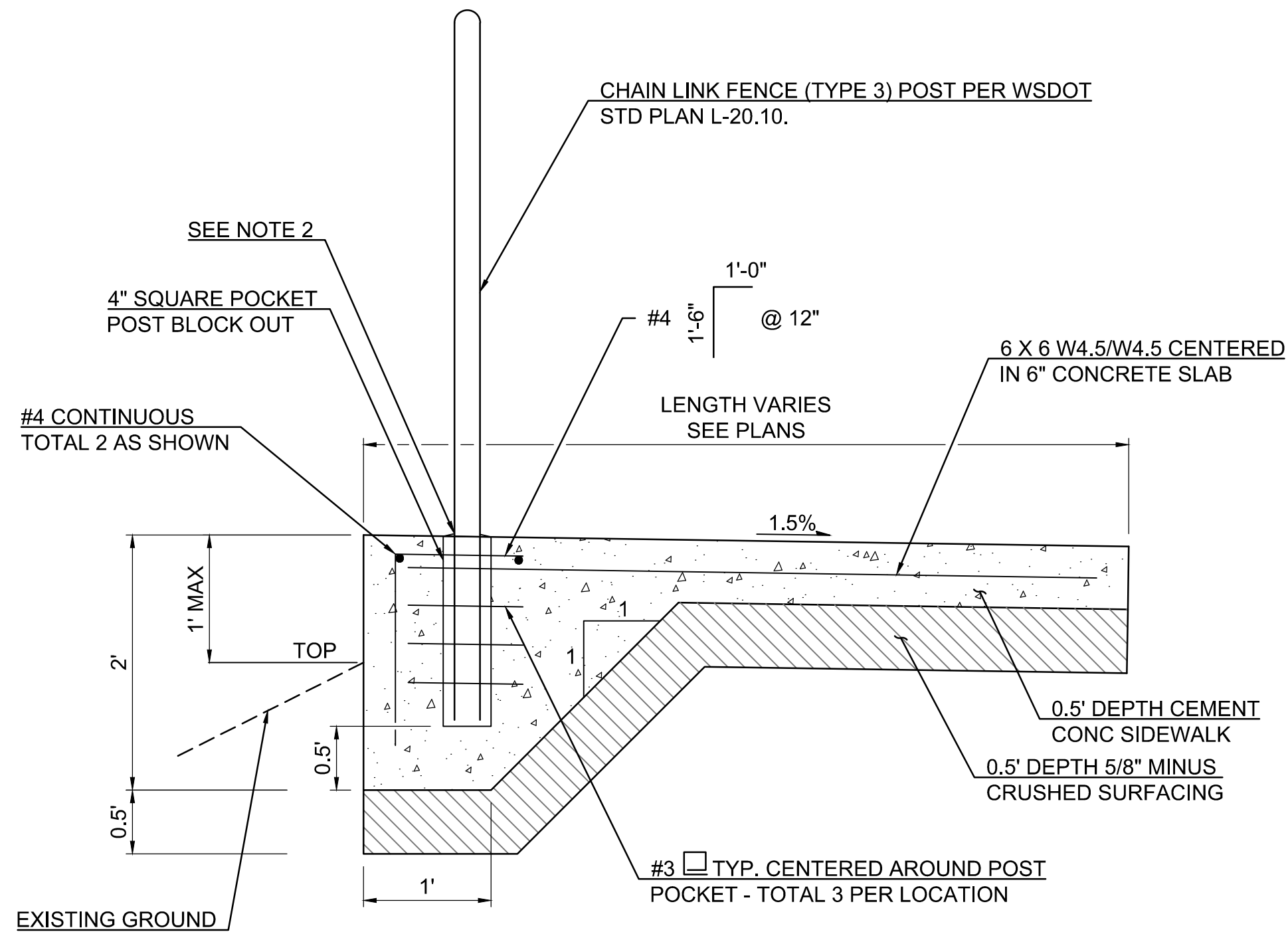
NOTES:  
1. PROVIDE A 3/4" REVEAL (DUMMY JOINT) ON SIDES AND TOP AT 10'-0" O.C.



**CURB WALL DETAIL**  
NTS

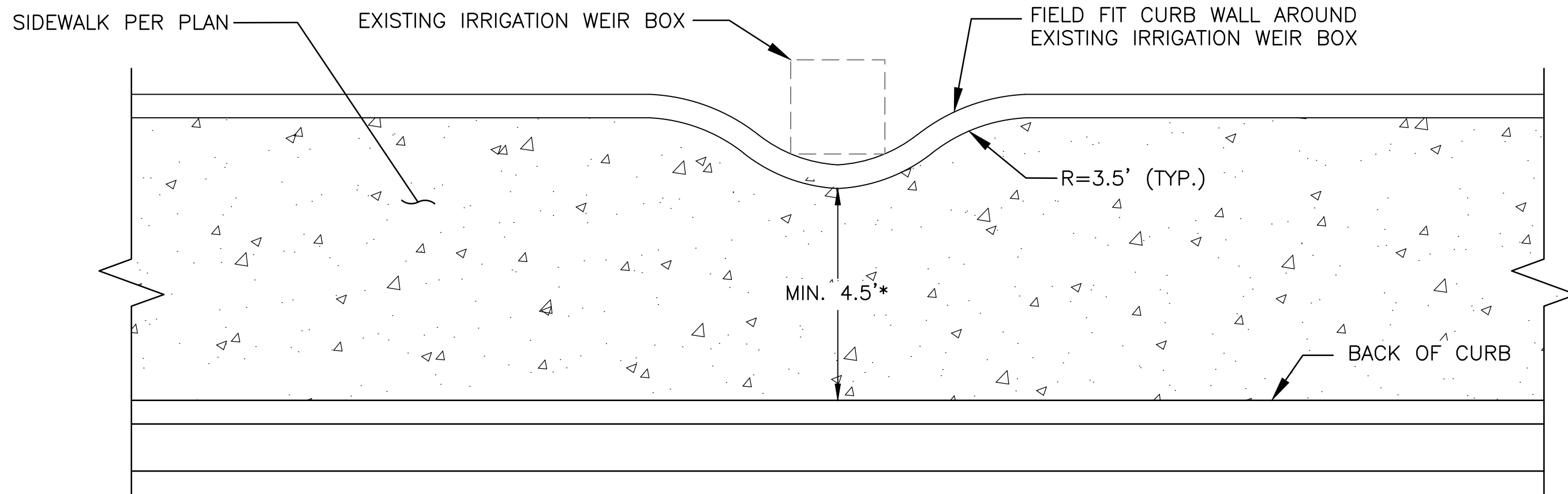


**CURB WALL WITH IRRIGATION WEIR BOX DETAIL**  
NTS



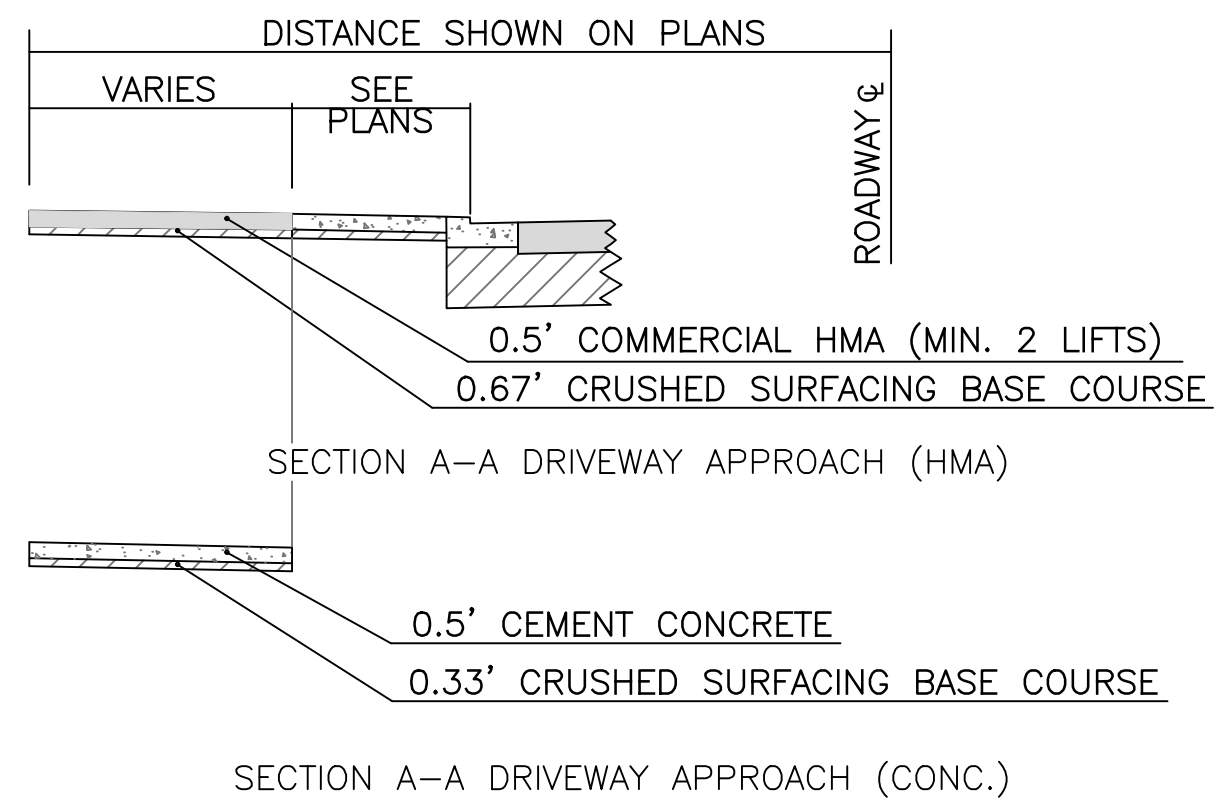
NOTES:  
1. USE 2000 PSI MINIMUM STRENGTH LOW SHRINK GROUT TO FILL POST POCKETS. UNUSED POCKETS SHALL ALSO BE FILLED WITH THE SAME GROUT MATERIAL.  
2. PROVIDE 1/4" CROWN ABOVE TOP OF SIDEWALK WITH GROUT SURROUNDING RAILING POST AS SHOWN TO PREVENT PONDING.

**THICKENED CEMENT CONCRETE SIDEWALK  
WITH THICKENED EDGE DETAIL**  
NTS

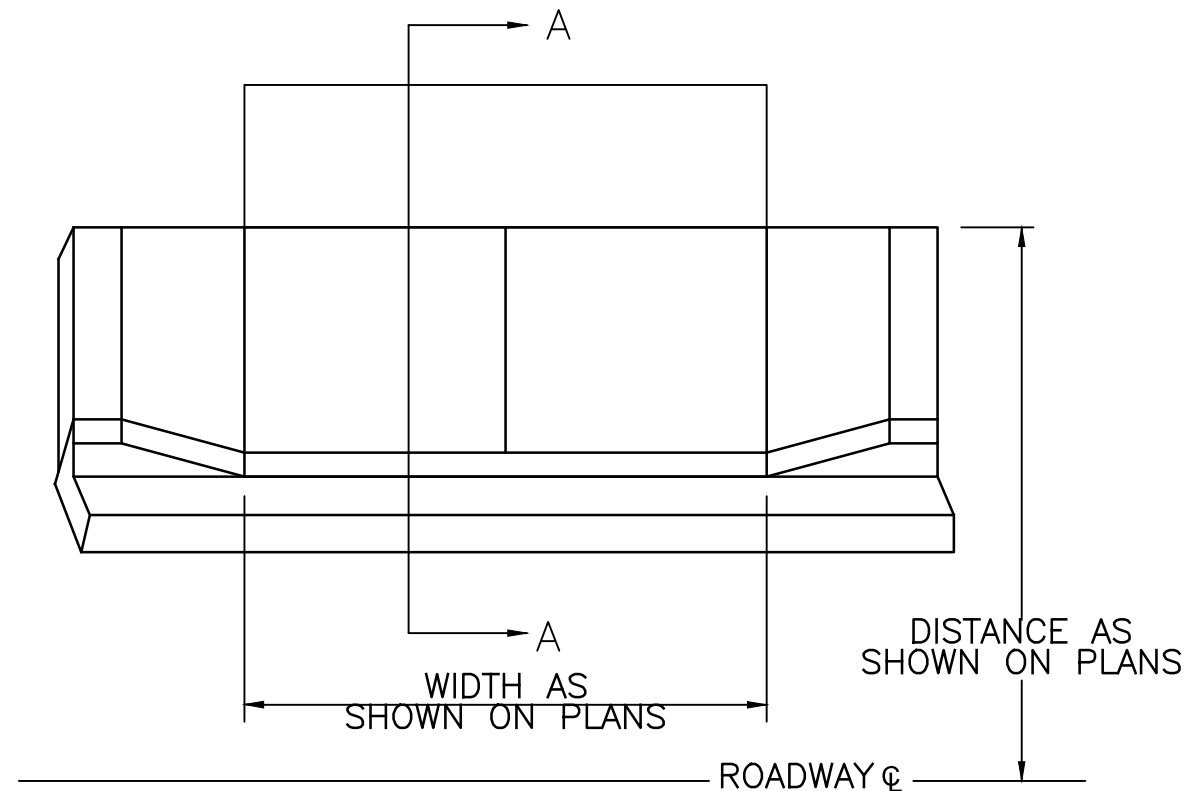


\*IF MINIMUM DISTANCE IS NOT ACHIEVED, CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY.

**SECTION A-A**  
NTS



**DRIVEWAY APPROACH**  
NTS



**FINAL PLANS**

PBS Engineering and  
Environmental Inc.  
5 N Corville St. Ste 200  
Walla Walla, WA 99662  
509.866.3026  
pbsusa.com



MISCELLANEOUS DETAILS FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



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JUNE 2022  
67750.000

SHEET ID

**C307**

SHEET 16 OF 20



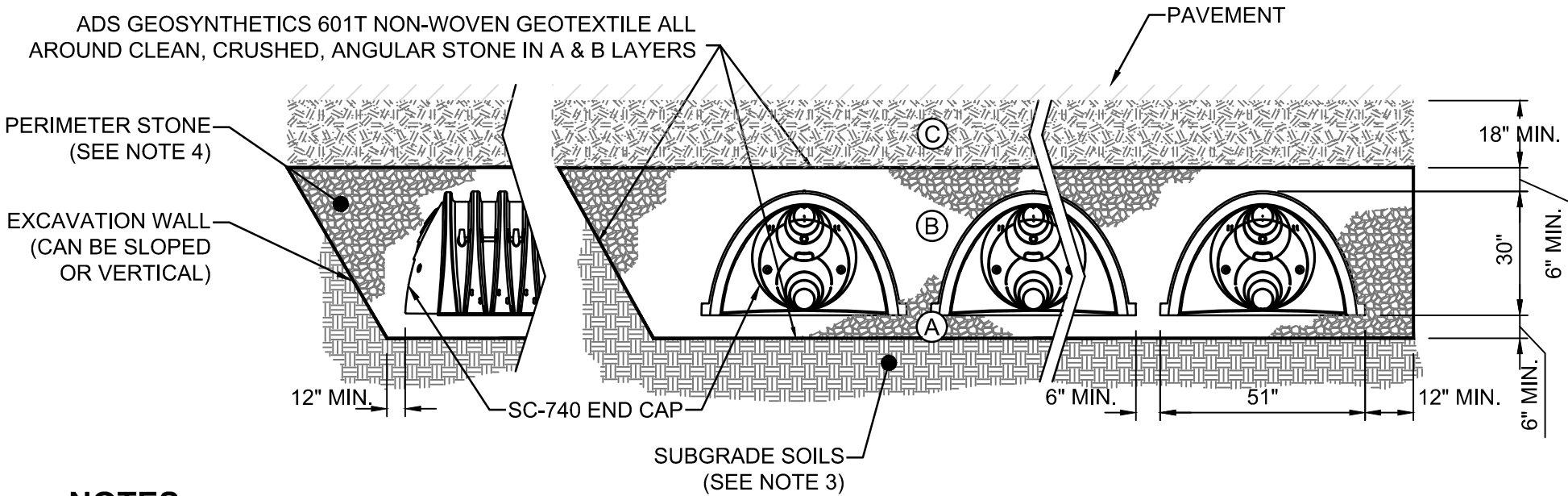
File name: L:\Projects\67000\6750\6750-000\Civil\CAD\Working\Sheets\6750\_C300\_DETAIL.dwg User: Tripp Peters CAD Plot Date/Time: 7/5/2022 4:45:01 PM

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	WSDOT STD. SPECIFICATION	COMPACTION / DENSITY REQUIREMENT
C	INITIAL FILL:	FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	9-03.9(3)	BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs.
	EMBEDMENT STONE:	FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.		
	FOUNDATION STONE:	FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.		
B		CLEAN, CRUSHED, ANGULAR STONE	9-03.12(5)	NO COMPACTION REQUIRED.
A		CLEAN, CRUSHED, ANGULAR STONE	9-03.12(5)	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

PLEASE NOTE:

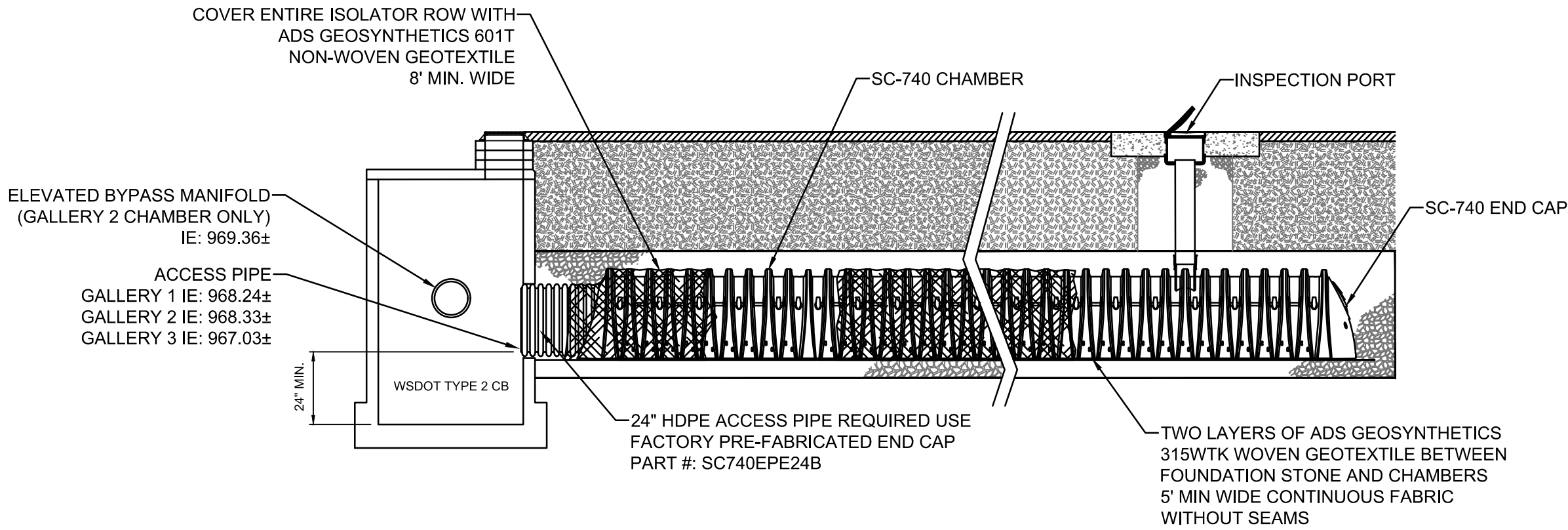
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



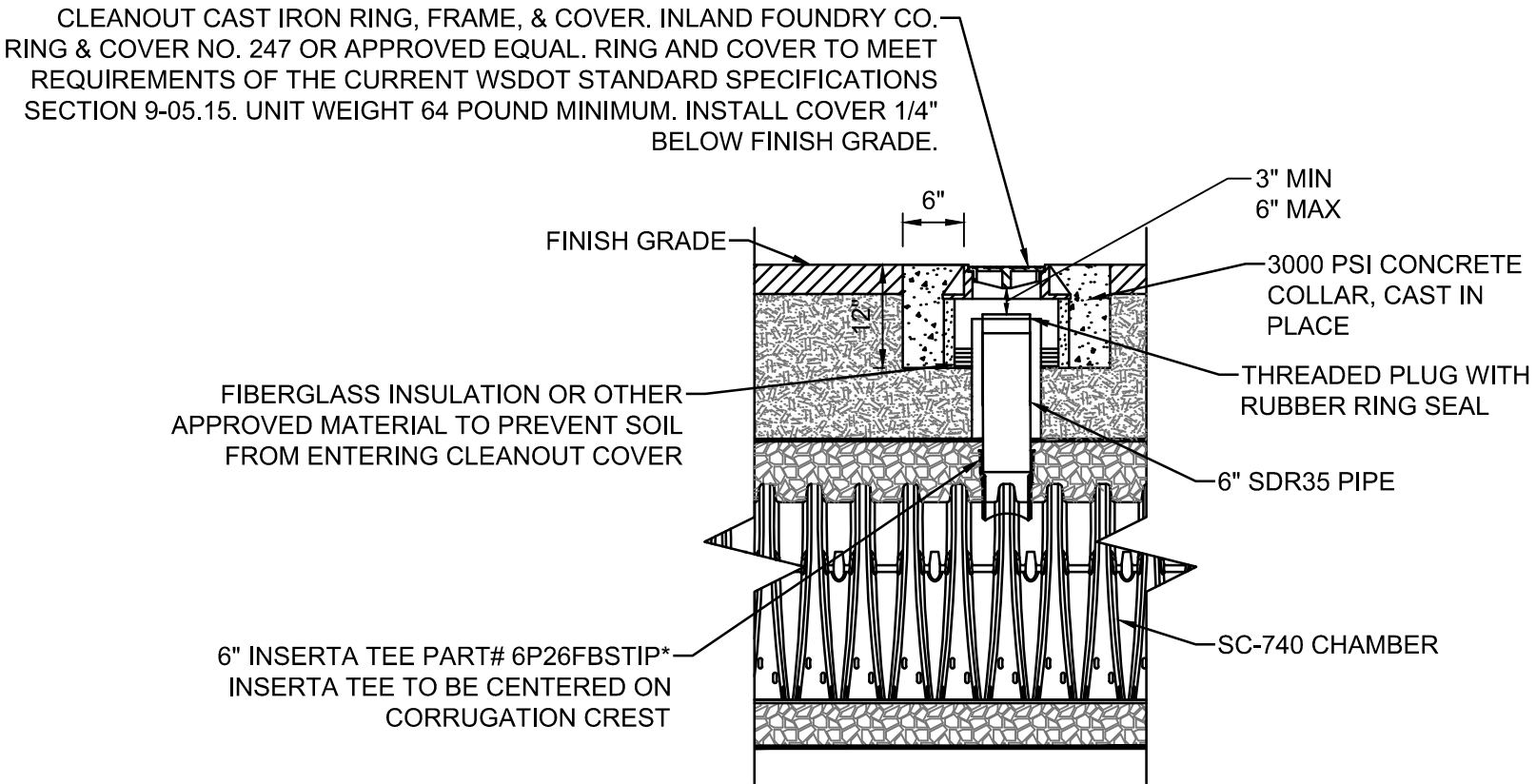
NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-740 STANDARD CROSS-SECTION  
NTS



SC-740 ISOLATOR ROW DETAIL  
NTS



SC-740 6" INSPECTION PORT DETAIL  
NTS

SC-740 6" INSPECTION PORT DETAIL  
NTS

PBS Engineering and Environmental Inc.  
5 N Colville St, Ste 200  
Walla Walla, WA 99162  
509.566.3026  
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STORMWATER GALLERY DETAILS FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



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DESIGNED:  
MDB/KCS

CHECKED:  
MDB

JUNE 2022  
67750.000

SHEET ID

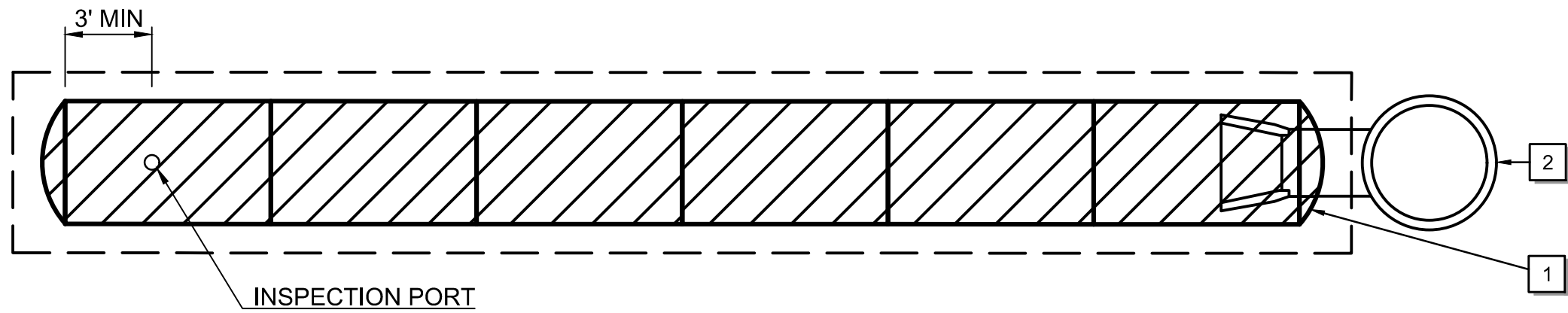
**C308**

SHEET **17** OF **20**

**FINAL PLANS**



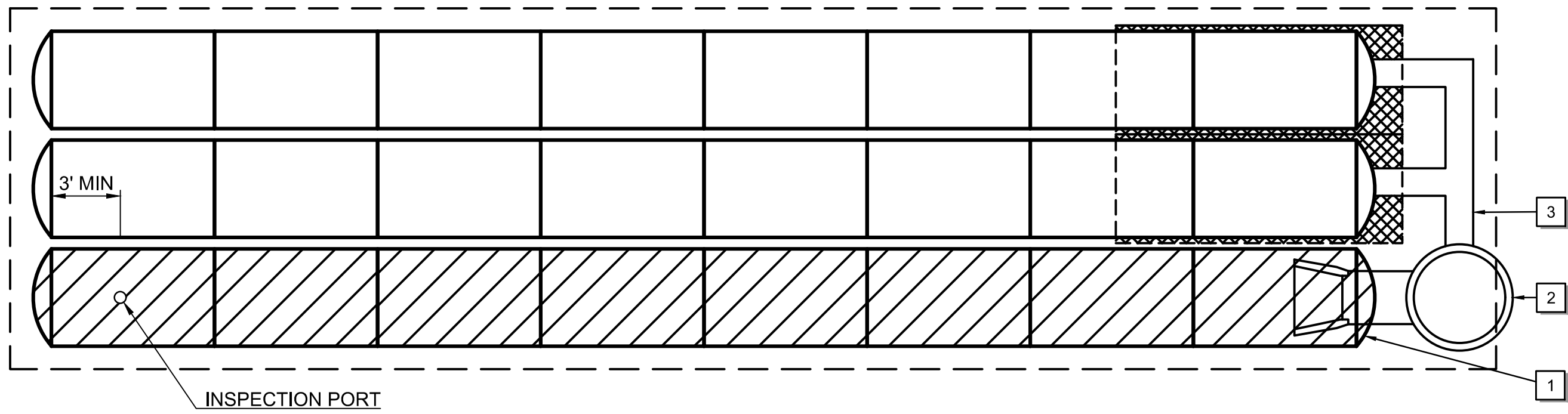
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SC-740 PLAN VIEW LAYOUT (GALLERY 1)  
NTS

PROPOSED LAYOUT	
6	STORMTECH SC-740 CHAMBERS
2	STORMTECH SC-740 END CAPS
6	STONE ABOVE (INCHES)
6	STONE BELOW (INCHES)
30	% STONE VOIDS
497	INSTALLED SYSTEM VOLUME (CF) INCLUDING PERIMETER, COVER, & BASE STONE
289	SYSTEM AREA (SF)
105.1	SYSTEM PERIMETER (FT)

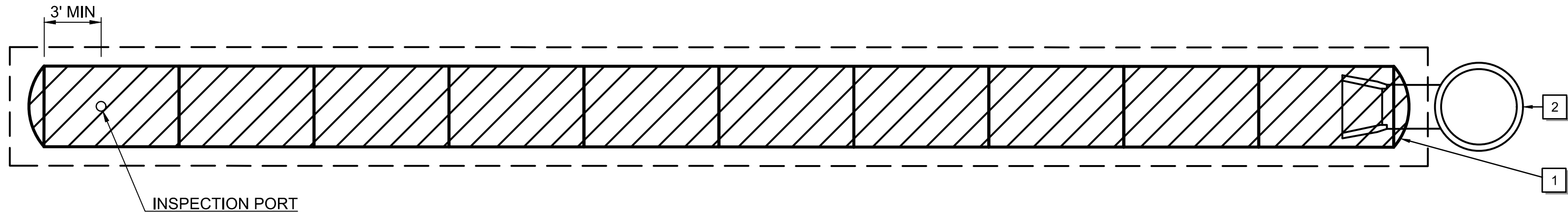
RELATIVE ELEVATIONS	
3.50	TOP OF STONE
3.00	TOP OF SC-740 CHAMBER
0.51	24" ISOLATOR ROW INVERT
0.50	BOTTOM OF SC-740 CHAMBER
0.00	BOTTOM OF STONE, ELEVATION 967.73±



SC-740 PLAN VIEW LAYOUT (GALLERY 2)  
NTS

PROPOSED LAYOUT	
24	STORMTECH SC-740 CHAMBERS
6	STORMTECH SC-740 END CAPS
6	STONE ABOVE (INCHES)
6	STONE BELOW (INCHES)
30	% STONE VOIDS
1774	INSTALLED SYSTEM VOLUME (CF) INCLUDING PERIMETER, COVER, & BASE STONE
1021	SYSTEM AREA (SF)
161.2	SYSTEM PERIMETER (FT)

RELATIVE ELEVATIONS	
3.50	TOP OF STONE
3.00	TOP OF SC-740 CHAMBER
1.54	12"x12" TOP MANIFOLD INVERT
0.51	24" ISOLATOR ROW INVERT
0.50	BOTTOM OF SC-740 CHAMBER
0.00	BOTTOM OF STONE, ELEVATION 967.82±



SC-740 PLAN VIEW LAYOUT (GALLERY 3)  
NTS

PROPOSED LAYOUT	
10	STORMTECH SC-740 CHAMBERS
2	STORMTECH SC-740 END CAPS
6	STONE ABOVE (INCHES)
6	STONE BELOW (INCHES)
30	% STONE VOIDS
812	INSTALLED SYSTEM VOLUME (CF) INCLUDING PERIMETER, COVER, & BASE STONE
467	SYSTEM AREA (SF)
162.0	SYSTEM PERIMETER (FT)

RELATIVE ELEVATIONS	
3.50	TOP OF STONE
3.00	TOP OF SC-740 CHAMBER
0.51	24" ISOLATOR ROW INVERT
0.50	BOTTOM OF SC-740 CHAMBER
0.00	BOTTOM OF STONE, ELEVATION 966.52±

LEGEND

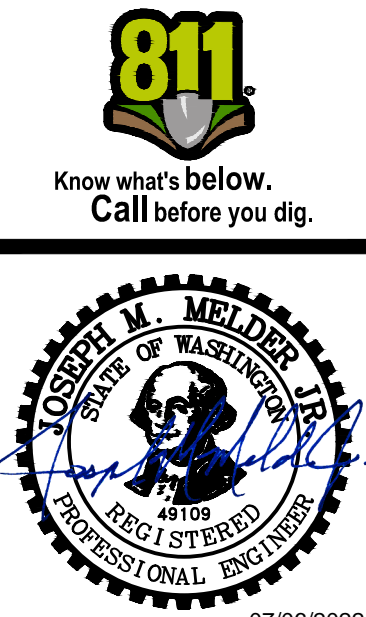
- ISOLATOR ROW (SEE DETAIL SHEET C308)
- PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
- PERIMETER

CHAMBER PLAN VIEW NOTES

- 1 PREFABRICATED END CAP. 24" BOTTOM PREFABRICATED END CAP, TYPICAL OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR ROWS. INVERT ABOVE BASE OF CHAMBER 0.10".
- 2 WSDOT TYPE 2 CATCH BASIN WITH ISOLATOR ROW. SEE DETAIL, THIS SHEET, & WSDOT STD PLAN B-10.20-02.
- 3 MANIFOLD. 12"x12" TOP, ADS N-12 OR EQUAL, INVERT ABOVE CHAMBER 12.50". (GALLERY 2 CHAMBER ONLY).

FINAL PLANS

STORMWATER GALLERY DETAILS FOR:  
**ABBOTT ROAD SIDEWALK AND STORMWATER IMPROVEMENTS**  
A SITE LOCATED IN WALLA WALLA COUNTY, WASHINGTON



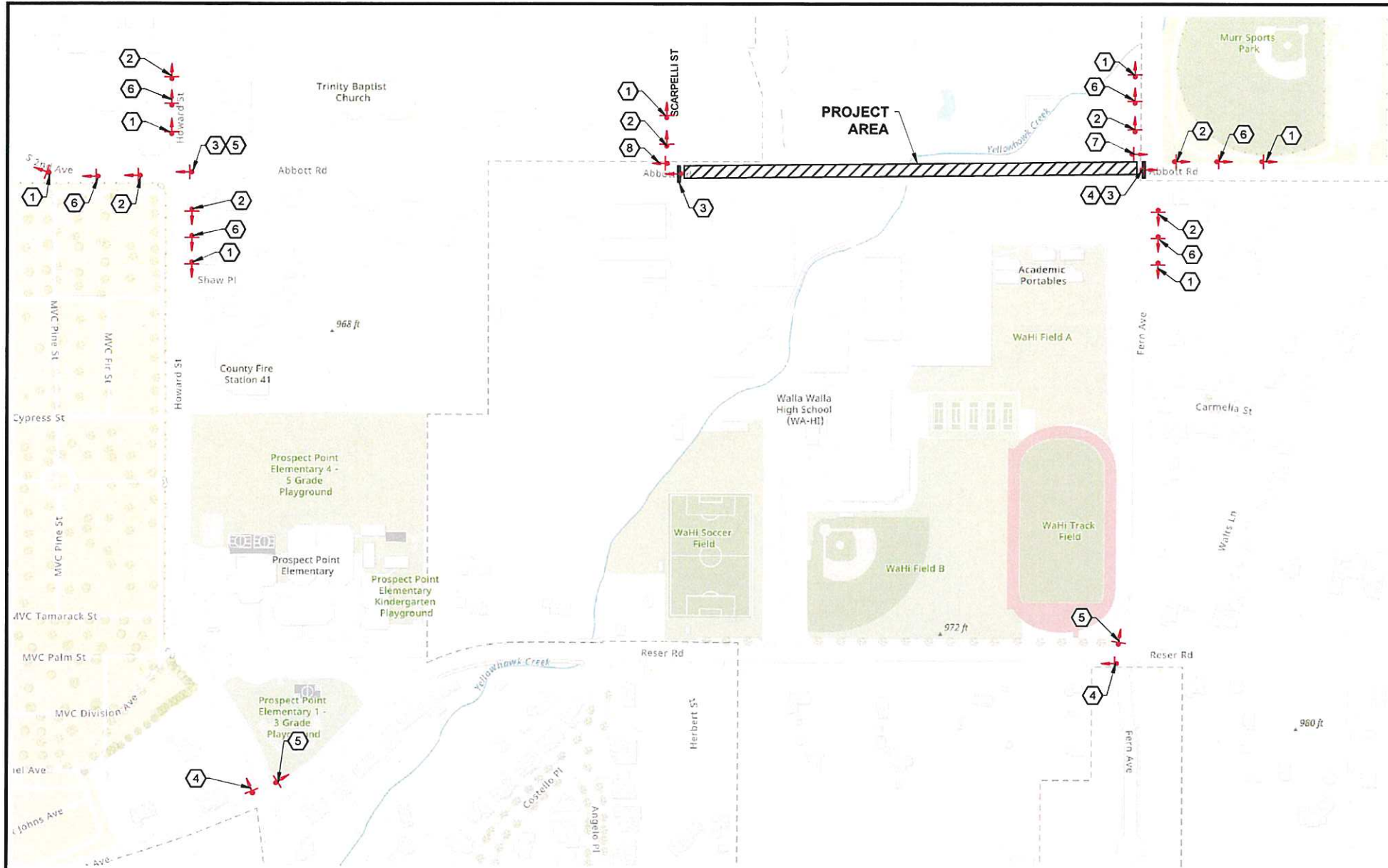
DESIGNED:  
MDB/KCS  
CHECKED:  
MDB  
JUNE 2022  
67750.000

SHEET ID  
**C309**  
SHEET 18 OF 20

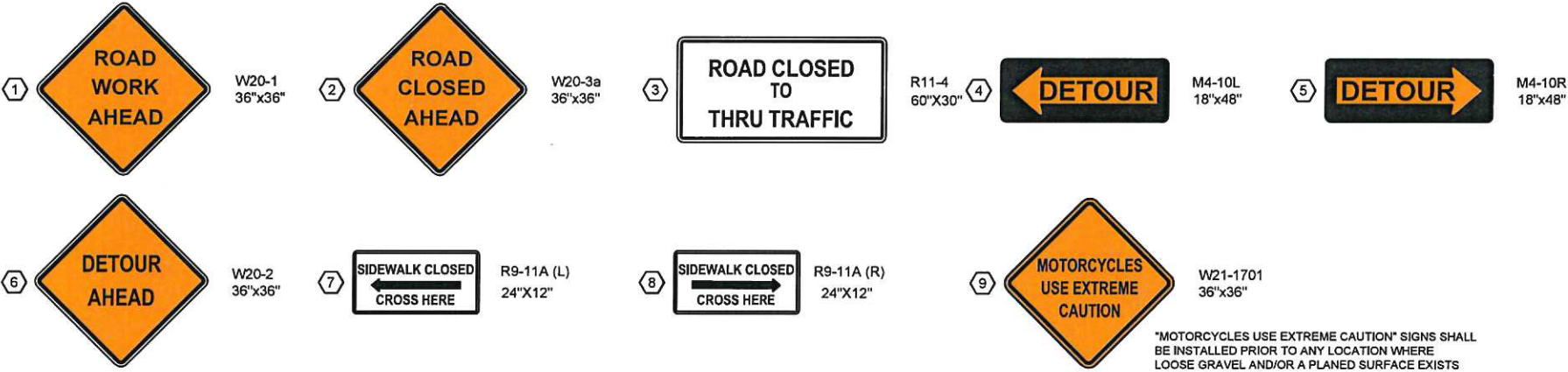
PBS Engineering and Environmental Inc.  
5 N Colville St, Ste 200  
Walla Walla, WA 99062  
509.866.3026  
pbsusa.com







PROJECT MAP  
NTS



**NOTE:**

CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL RESIDENTS TO THEIR RESPECTIVE DRIVEWAYS AT THE END OF EACH WORK DAY, AND DURING WEEKENDS. THE CONTRACTOR SHALL MAKE PROVISIONS FOR EMERGENCY, MAIL CARRIER, AND GARBAGE COLLECTION VEHICLE ACCESS AT ALL TIMES.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MUTCD, AND SHALL BE MODIFIED AS REQUIRED BY THE ENGINEER.

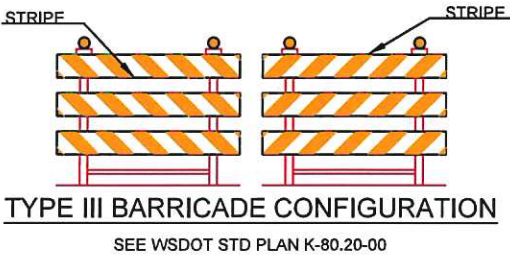
ALL TRAFFIC CONTROL DEVICES SHALL MEET REQUIREMENTS OF N.C.H.R.P REPORT 350 AS CERTIFIED BY THE MANUFACTURER OF THE DEVICE.

SEE WSDOT STD PLAN K-80.20-00 FOR TYPE III BARRICADE DETAIL. PAINTED RAILS ARE NOT ACCEPTABLE. TYPE III TRAFFIC BARRICADE FACE RAILS SHALL HAVE RETRO-REFLECTORIZED SHEETING ATTACHED.

SIGNS TO BE MOUNTED ON TYPE III BARRICADES UPON ACTUAL CLOSING OF A SECTION OF ROAD.

**CONDITION AND CARE OF EQUIPMENT**

ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT CLEAN TO PROVIDE PROTECTION FOR THE CREW THROUGH BETTER VISIBILITY TO THE MOTORIST. THE CONDITION OF SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR "ACCEPTABLE" AS DEFINED IN THE BOOK "QUALITY GUIDELINES FOR WORK ZONE TRAFFIC CONTROL DEVICES", AND WILL BE ACCEPTED BASED ON A VISUAL INSPECTION. A SIGN OR TRAFFIC CONTROL DEVICE DETERMINED TO BE "NOT ACCEPTABLE" SHALL BE REMOVED FROM THE PROJECT.



LEGEND

- SIGN SINGLE POST
- SIGN DOUBLE POST
- TYPE III BARRICADE

2009 Edition MUTCD  
Page 581

GUIDANCE:  
14 SIGNS MOUNTED ON TYPE 3 BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.

GENERAL NOTES:

- ABBOTT RD, FROM SCARPELLI ST TO FERN AVE, MAY BE CLOSED TO THRU TRAFFIC FROM AUGUST 8, 2022 TO SEPTEMBER 2, 2022. FROM SEPTEMBER 2, 2022 TO THE END OF PROJECT, SINGLE LANE CLOSURE WITH FLAGGERS (FROM 6 AM TO 6 PM) SHALL BE USED FOR TRAFFIC CONTROL.
- ALL SIGNS (THAT ARE NOT INDICATED TO BE ON TYPE III BARRICADES) MAY BE CLASS B SIGNS, IN LIEU OF CLASS A SIGNS.

SIGN SCHEDULE						
SIGN #	SIGN CODE*	QUANTITY	SIZE ENGLISH	COLOR	POST PER SIGN	DESCRIPTION
1	W20-1	7	36X36	BLACK / ORANGE	1	ROAD WORK AHEAD
2	W20-3	7	36X36	BLACK / ORANGE	1	ROAD CLOSED AHEAD
3	R11-4	3	60X30	BLACK / WHITE	1	ROAD CLOSED TO THRU TRAFFIC
4	M4-9L	3	30X24	BLACK / ORANGE	1	DETOUR / LEFT ARROW
5	M4-9R	3	30X24	BLACK / ORANGE	1	DETOUR / RIGHT ARROW
6	W20-2	6	36X36	BLACK / ORANGE	1	DETOUR AHEAD
7	R11-9A (L)	1	24X12	BLACK / WHITE	1	SIDEWALK CLOSED - LEFT ARROW
8	R11-9A (R)	1	24X12	BLACK / WHITE	1	SIDEWALK CLOSED - RIGHT ARROW
9	W21-1701	-	36X36	BLACK / ORANGE	1	MOTORCYCLES USE EXTREME CAUTION

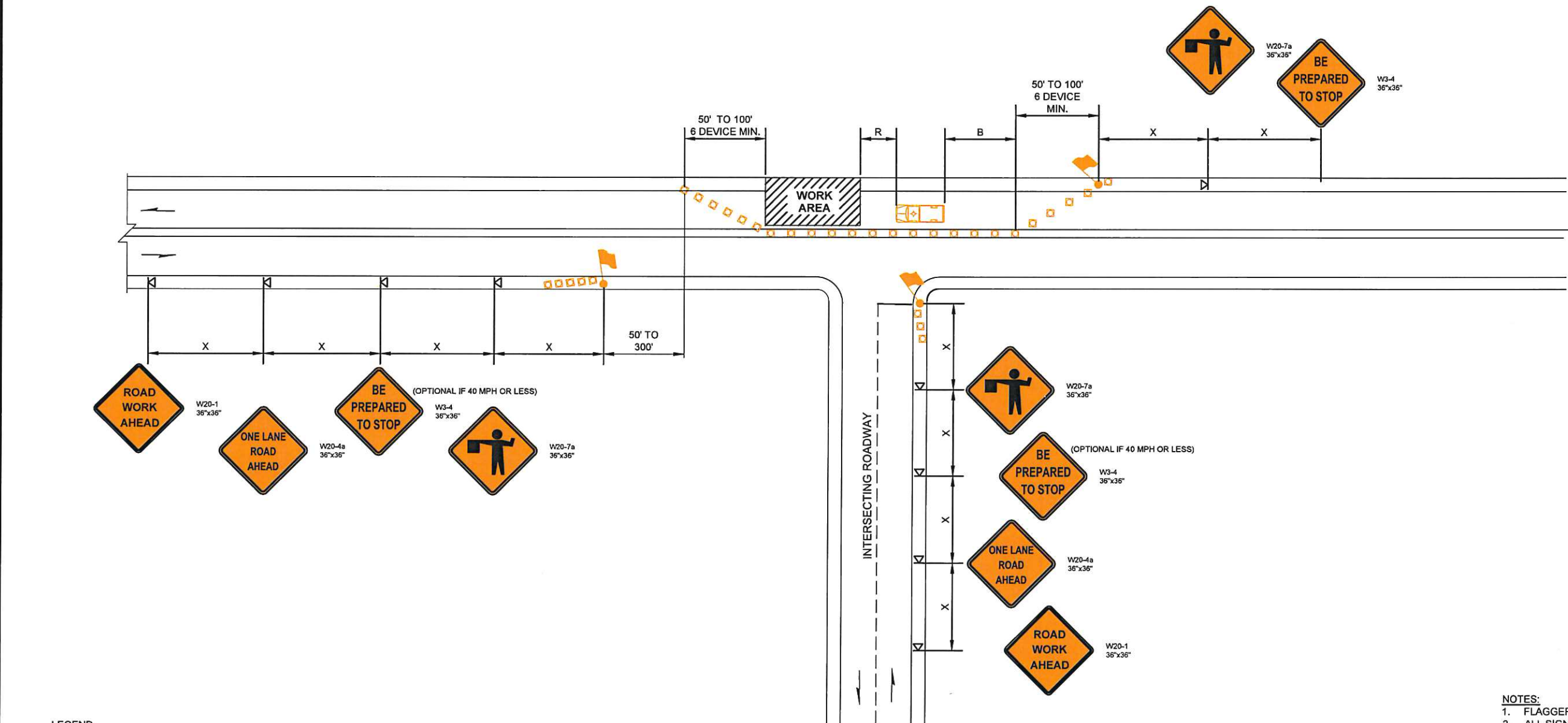
\*NOTE: SIGN CODES PER MUTCD AND/OR WSDOT SIGN FABRICATION MANUAL



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 LBS					HOST VEHICLE WEIGHT > 22,000 LBS					
< 45 MPH	45 - 55 MPH		> 55 MPH		< 45 MPH		45 - 55 MPH		> 55 MPH	
100'	123'		172'		74'		100'		150'	
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.		
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50 / 65	10 TO 20	80
35 / 45	10 TO 20	60
25 / 30	10 TO 20	40



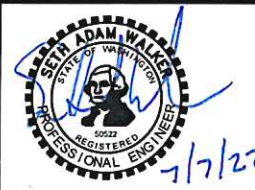
- LEGEND**
- FLAGGING STATION
  - TEMPORARY SIGN LOCATION
  - CHANNELIZING DEVICES
  - PROTECTIVE VEHICLE

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

- NOTES:**
1. FLAGGERS SHALL NOT STOP TRAFFIC LONGER THEN 15 MIN.
  2. ALL SIGNS ARE BLACK ON ORANGE.
  3. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
  4. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
  5. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

DRAWN: J. CHAPMAN				REGION NO.	STATE
DESIGNER: J. CHAPMAN				10	WASH
CHECKED: M. JONES				JOB NUMBER	
PROJ. ENG.: S. WALKER				20-04	
APPROVED BY: S. WALKER					
7/7/2022	REV DATE	REVISION	BY	APP'D	

FEDERAL AID PROJECT NO.	



Walla Walla County  
PUBLIC WORKS DEPARTMENT  
7/7/2022  
PLOT DATE



ABBOTT ROAD SIDEWALK AND  
STORMWATER IMPROVEMENTS

TRAFFIC CONTROL PLAN  
LANE CLOSURE WITH FLAGGERS