

Mill Creek Fish Passage Park St to Roosevelt St

PROJECT NUMBER 15-1324

DRAWING INDEX:

1. Cover Sheet

2. Legend And Notes

3. Site, Access

4. Overall Profile and Typical Sections

5. Site Plan - Enlarged View 63+00 to 76+00

6. Site Plan - Enlarged View 76+00 to 88+00

7. Site Plan - Enlarged View 88+00 to 99+00, Baffle Layout

8. Site Plan - Enlarged View 99+00 to 111+00

9. Site Plan - Enlarged View 111+00 to 116+00

10. Plan And Sections Otis St Bridge

11. Plan And Sections Merriam St Bridge

12. Plan And Sections Clinton St Bridge

13. Plan And Sections Division St Bridge

14. Resting Pool Details
15. Roughness Panel / Baffle Deatils

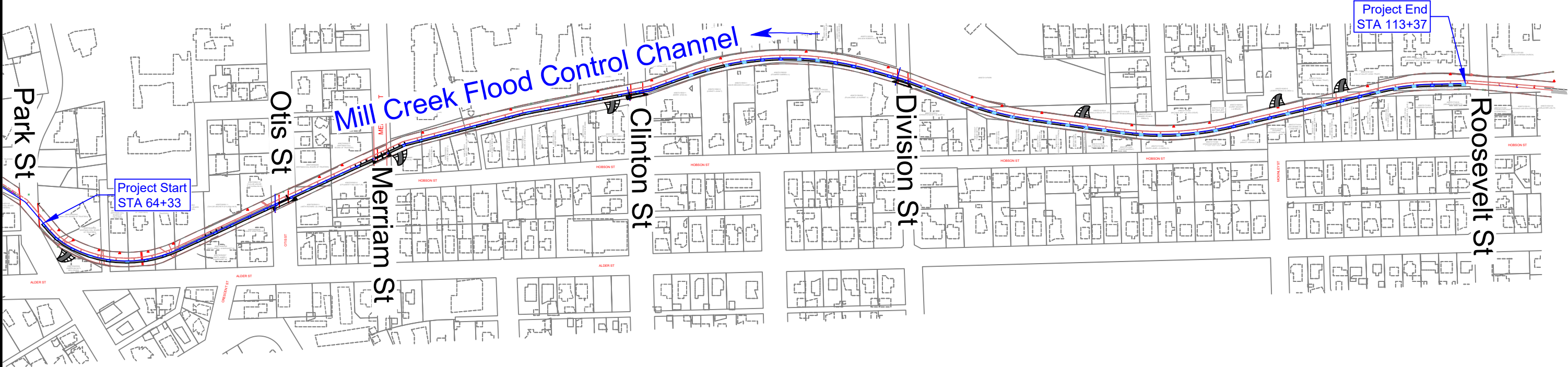
16. 7' Concrete Panel Details

17. 4' Concrete Panel Details

18. Concrete Panel Details

19. Details

20. Details

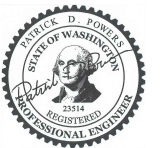


Project Work Area:
STA 64+33 to 113+37

OVERALL MAP
1" = 166'



Mill Creek Fish Passage
Park Street to Roosevelt Street



REVISIONS					DESCRIPTION
REV	DATE	BY	APPD		
SCALE VERIFICATION					IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
BAR IS ONE INCH ON ORIGINAL DRAWING.					0 1"

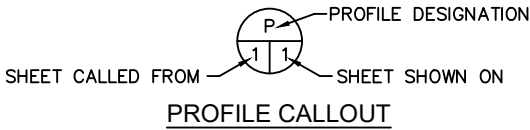
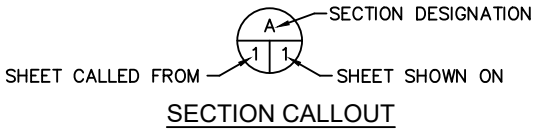
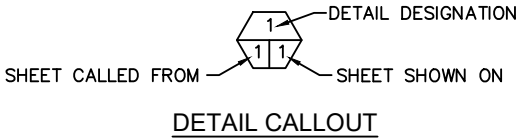
DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/1/2017

Cover Sheet

ABBREVIATIONS

"	-	INCHES	MISC.	-	MISCELLANEOUS
,	-	FEET	MPH	-	MILES PER HOUR
APPROX.	-	APPROXIMATELY	O.C.	-	ON CENTER
B&B	-	BALLED AND BURLAPPED	O.D.	-	OUTSIDE DIAMETER
BM	-	BENCH MARK	OHW	-	ORDINARY HIGH WATER
Ⓒ	-	CENTERLINE	PK	-	PARKER-KALON
CAL.	-	CALIPER	R.O.W.	-	RIGHT OF WAY
CFS	-	CUBIC FEET PER SECOND	REQ'D	-	REQUIRED
CLR.	-	CLEARANCE	SEC.	-	SECTION
CMP	-	CORRUGATED METAL PIPE	S.F.	-	SQUARE FEET
CONC.	-	CONCRETE	SHT.	-	SHEET
DIA.	-	DIAMETER	SPEC'S.	-	PROJECT SPECIFICATIONS
ELEV.	-	ELEVATION	STA.	-	STATION
EQ.	-	EQUAL	SS	-	STAINLESS STEEL
FTG.	-	FOOTING	TEMP.	-	TEMPORARY
HDPE	-	HIGH DENSITY POLYETHYLENE	TYP.	-	TYPICAL
HT.	-	HEIGHT	W.S.	-	WATER SURFACE
GAL.	-	GALLON	WSDOT	-	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
I.D.	-	INSIDE DIAMETER	WSEL	-	WATER SURFACE ELEVATION
I.E.	-	INVERT ELEVATION			
LBS.	-	POUNDS			
LWD	-	LARGE WOODY DEBRIS			
MAX.	-	MAXIMUM			
MFG.	-	MANUFACTURER'S			
MHW	-	MEAN HIGH WATER			
MHHW	-	MEAN HIGHER HIGH WATER			
MIN.	-	MINIMUM			
MISC.	-	MISCELLANEOUS			

SHEET SYMBOLS



References to Right and Left as viewed downstream

Survey Notes:

BASIS OF BEARINGS AND ELEVATIONS:
A BEARING OF N 01°12'06" W BETWEEN FOUND MONUMENTS ON ROOSEVELT STREET AT THE INTERSECTIONS WITH HOBSON STREET & FRANCIS AVENUE WAS ESTABLISHED BASED ON THE CITY OF WALLA WALLA G.I.S. AS ESTABLISHED BY SURVEY RECORDED IN BOOK 6 OF SURVEYS AT PAGE 263 UNDER AUDITORS FILE NUMBER 9604535, WHICH IS IN TURN BASED ON THE WASHINGTON STATE SOUTH ZONE GRID COORDINATE SYSTEM, NAD 83-91, AND UPON THE NAVD 1988 VERTICAL DATUM.

***BUILDING & PARCEL BOUNDARY NOTE**
BUILDING & PARCEL BOUNDARIES SHOWN ON THIS MAP ARE APPROXIMATE PER CITY OF WALLA WALLA GIS LAYERS AND SHOULD NOT BE USED AS NOR DOES IT CONSTITUTE A BOUNDARY SURVEY. DATA LAYERS WERE PROVIDED BY CITY STAFF ON MARCH 10, 2016 WITH THE FOLLOWING DISCLAIMER:

"THE CITY OF WALLA WALLA DOES NOT WARRANT, GUARANTEE OR ACCEPT ANY LIABILITY FOR THE ACCURACY, PRECISION OR COMPLETENESS OF ANY INFORMATION SHOWN HEREON OR ANY INFERENCES MADE THEREFROM. THIS REPRESENTATION OF THE CITY UTILITY DATA IS THE BEST AVAILABLE INFORMATION TO DATE. THE CITY RECOGNIZES THAT FURTHER FIELD VERIFICATION MAY REVEAL INFORMATION THAT IS CONTRARY TO THIS MAP."

LEGEND

	SURVEY POINT		SURVEY MONUMENT AS NOTED
	PROJECT CONTROL POINT		POWER POLE
	EXISTING TREES TO REMAIN		MANHOLE
	PROJECT BENCH MARK		UTILITY CABINET
	BORING LOCATIONS		LIGHT POST
	PARCEL BOUNDARY		TREE TO BE REMOVED
	BUILDING BOUNDARY		TREE TO REMAIN
	CHANNEL BULKHEAD (SINGLE OR DOUBLE LINE)		EXISTING CALLOUT NEW CALLOUT
	CHANNEL CENTERLINE		NOTE CALLOUT
	OVERHEAD POWER		STATION CALLOUT
	OVERHEAD SERVICE LINE		PHOTO CALLOUT
	INDEX CONTOUR LINE		SANDBAGS

CONTROL POINT (CP) TABLE

CP#	NORTHING	EASTING	ELEV.	DESC.
49	276014.76	2195838.69	1034.94	SET NAIL
60	276037.73	2195495.73	1031.24	SET NAIL
61	275998.11	2195222.23	1026.74	SET NAIL
62	275928.34	2194926.25	1023.23	SET NAIL
63	275877.24	2194699.71	1020.58	SET NAIL
64	275864.79	2194581.44	1018.91	SET NAIL
65	275869.09	2194443.00	1017.23	SET NAIL
66	275909.90	2194145.83	1013.73	SET NAIL
67	275933.27	2194013.93	1012.13	SET NAIL
68	275961.29	2193914.95	1010.65	SET NAIL
69	276060.78	2193638.01	1007.06	SET NAIL
71	276112.59	2193366.92	1003.50	SET NAIL
72	276090.00	2193084.01	1000.14	SET NAIL
73	276017.27	2192856.41	997.48	SET NAIL
74	275980.59	2192678.20	994.99	SET NAIL
75	275921.03	2192390.60	990.93	SET NAIL
76	275844.76	2192099.43	987.90	SET NAIL
77	275737.12	2191833.19	984.31	SET NAIL
78	275698.14	2191758.18	982.66	SET NAIL
79	275589.71	2191520.80	979.84	SET NAIL
80	275477.76	2191275.61	977.30	SET NAIL
81	275451.36	2191191.70	976.58	SET NAIL
82	275446.52	2191097.91	975.57	SET NAIL
83	275456.12	2191029.42	974.84	SET NAIL
84	275489.52	2190944.08	973.88	SET NAIL
85	275522.24	2190896.84	973.09	SET NAIL
86	275717.51	2190670.54	970.16	SET NAIL
87	275793.38	2190494.97	967.95	SET NAIL
88	275704.60	2190282.35	966.10	SET NAIL
89	275708.22	2190241.99	965.77	SET NAIL
90	275767.76	2190139.93	963.43	SET NAIL
91	275839.00	2189945.41	973.66	SET NAIL
113	275732.89	2190568.71	969.97	SET NAIL
114	275754.70	2190488.99	968.58	SET NAIL
115	275742.25	2190439.06	967.86	SET NAIL
116	275665.40	2190243.60	966.42	SET NAIL
117	275747.10	2190108.13	962.92	SET NAIL



Mill Creek Fish Passage
Park Street to Roosevelt Street



12/1/2017

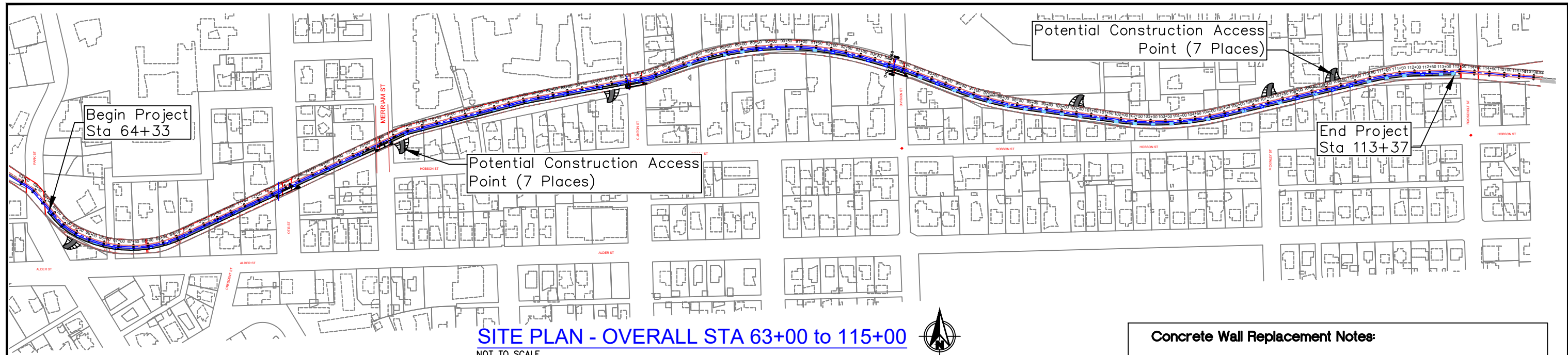


12/1/2017

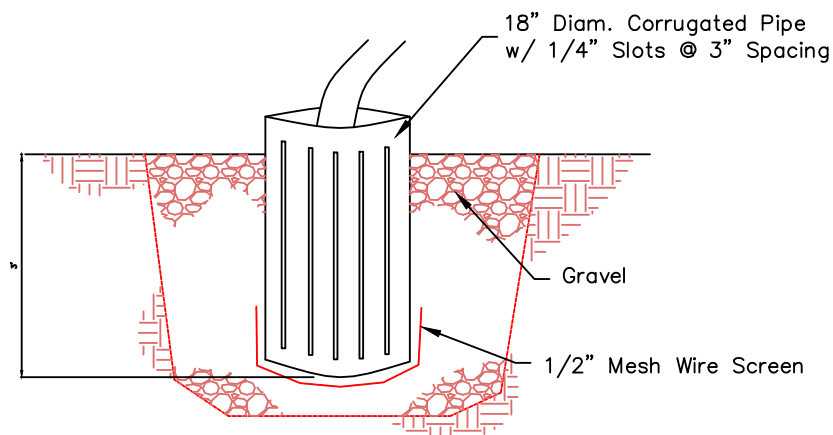
REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
SCALE VERIFICATION					IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
BAR IS ONE INCH ON ORIGINAL DRAWING.					0 1"

DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

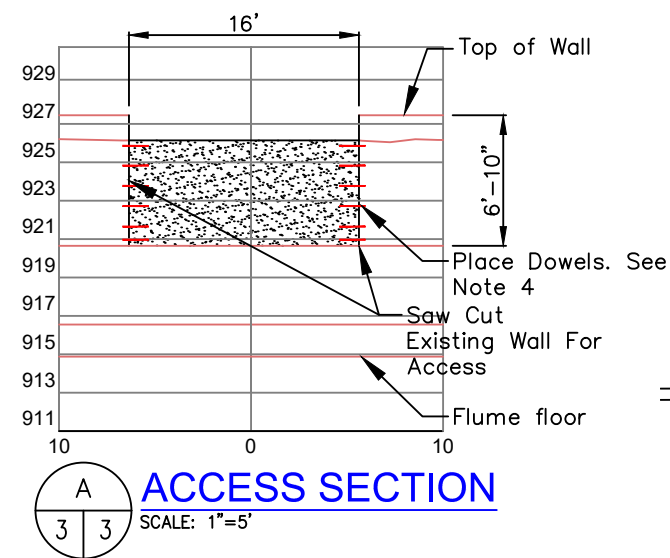
Legend and Notes



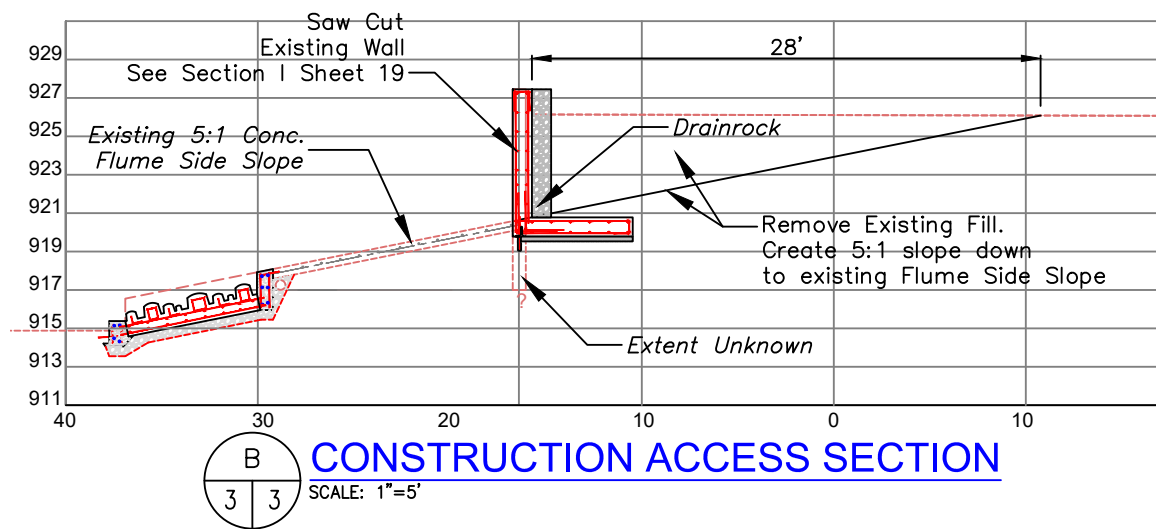
SITE PLAN - OVERALL STA 63+00 to 115+00
NOT TO SCALE



1 SUMP PUMP DETAIL
3/3 NOT TO SCALE
Locate at Resting Pools

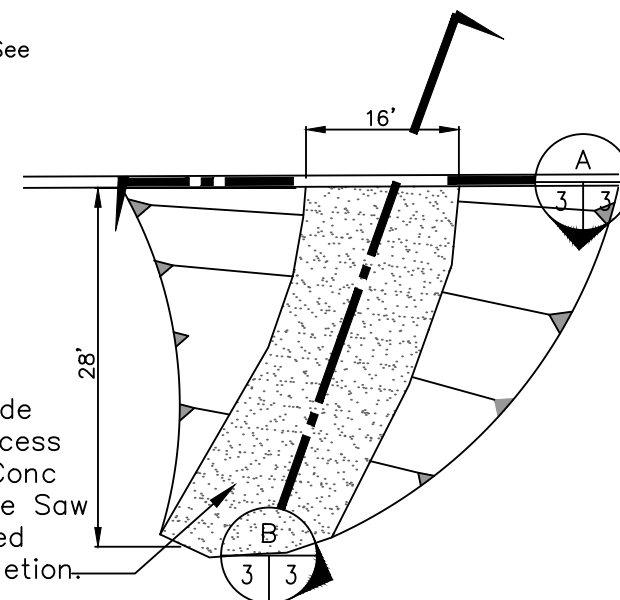


ACCESS SECTION
SCALE: 1"=5'



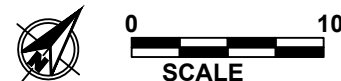
CONSTRUCTION ACCESS SECTION
SCALE: 1"=5'

Proposed 16' Wide Construction Access Road. Existing Conc Flume Wall to be Saw Cut and Replaced after Job Completion.



Typical - Actual layout and location will vary.

CONSTRUCTION ACCESS PLAN
SCALE: 1"=20'

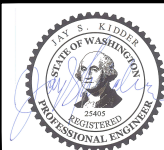


Concrete Wall Replacement Notes:

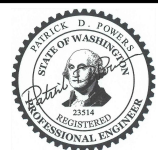
1. Sawcut Existing Concrete wall. Remove fill from behind for access. When replacing if concrete is competent as determined by engineer, rotary drill and epoxy 4" min embedment #5 rebar to tie into new wall at new rebar locations.
2. No drilling shall be allowed until approved by the engineer.
3. All saw cut concrete edges to new concrete placement contacts shall be coated with concrete bonding agent prior to placement of new concrete.
4. All dowels shall be epoxy anchored rebar with a minimum embedment of 4" into existing concrete wall.
5. All rebar shall be #5 bars.
6. Epoxy Shall be Hilti HIT HY 200 or Simpson SET XP or Equal.
7. Final design of replacement retaining wall will be determined upon inspection of existing wall steel and concrete condition but should follow this detail unless field inspection determines different arrangement.
8. Provide 2' thick layer of free draining 3/4" drain rock on backfilled side full height of retaining wall.
9. All vertical edges shall receive 3/4" chamfer strip and top edges may be hand troweled 3/4" radius.
10. Provide PVC water stop at all exist to new wall contacts



**Mill Creek Fish Passage
Park Street to Roosevelt Street**



12/1/2017



12/1/2017

REVISIONS					DESCRIPTION
REV	DATE	BY	APPD		

BAR IS ONE INCH ON ORIGINAL DRAWING.

SCALE VERIFICATION

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

0 1"

DESIGNED BY:
WATERFALL ENGINEERING

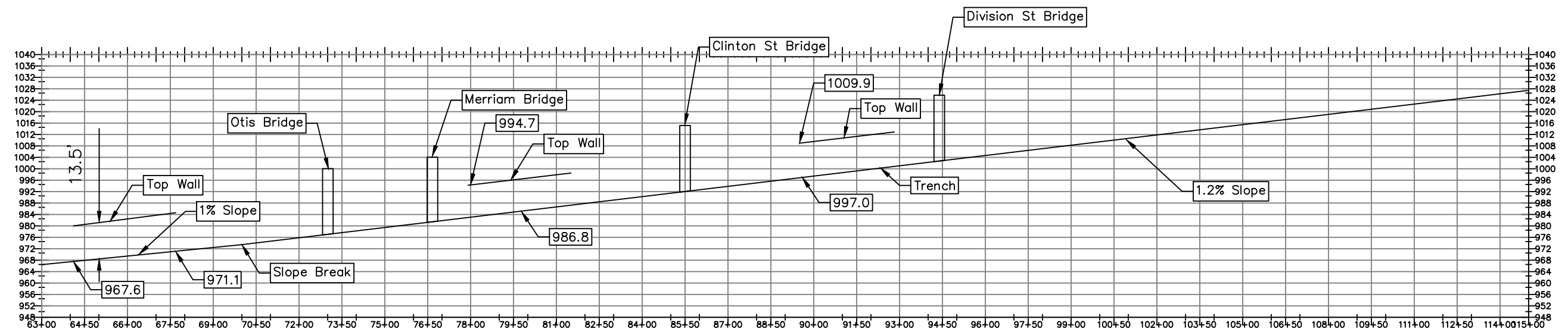
CHINOOK ENGINEERING

DRAWN BY:
DIMENSIONS DRAFTING & DESIGN

DATE:
12/01/2017

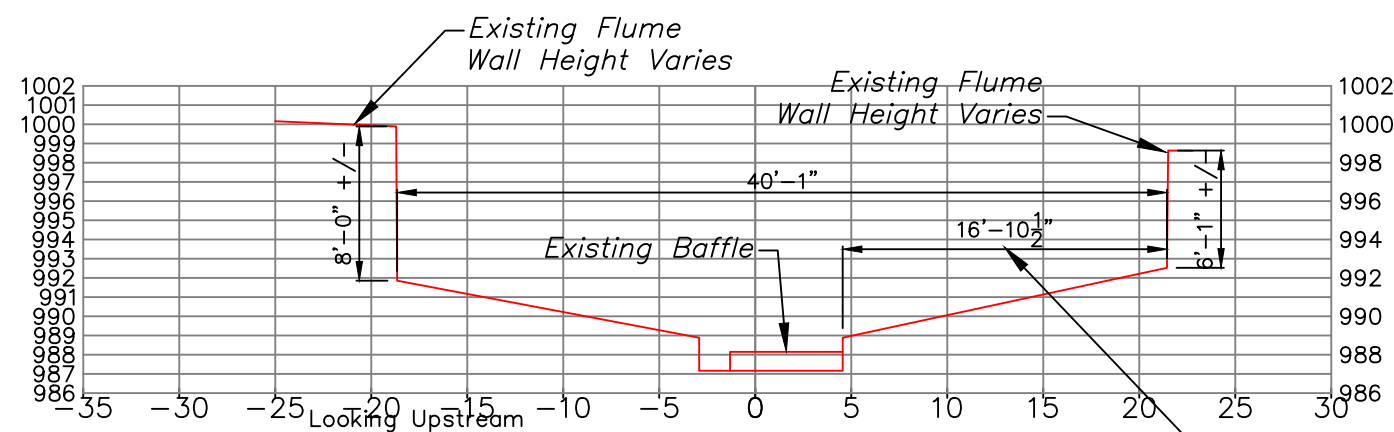
**Site Plan - Construction
Access**

3 20
SHEET OF



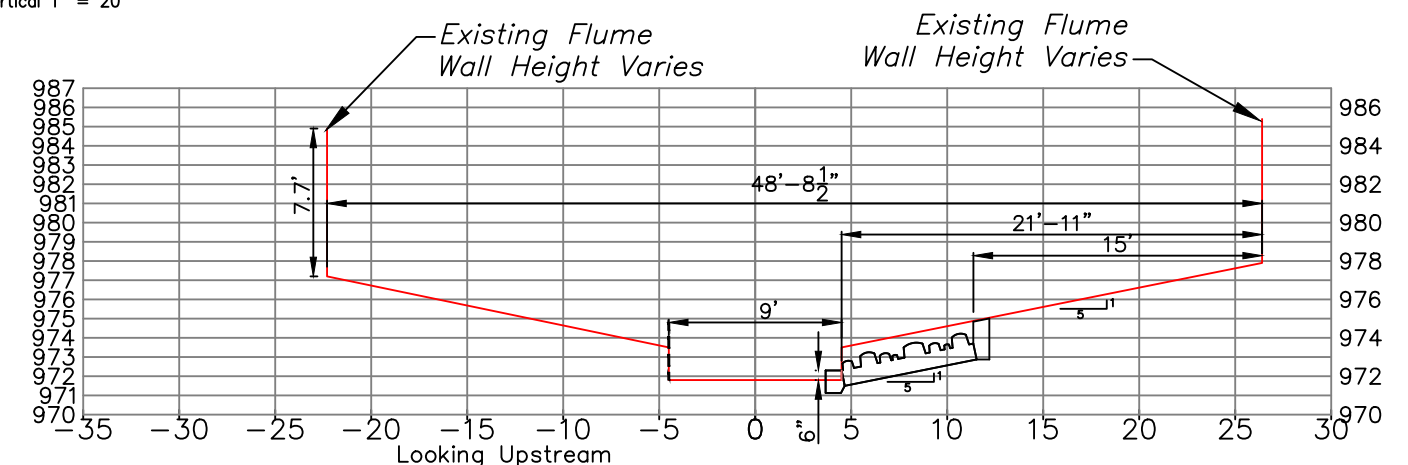
Profile - Trench/Partial Top Wall

Scale Horizontal 1" = 200', Vertical 1" = 20'



Typical Existing Channel Section Sta 81+49

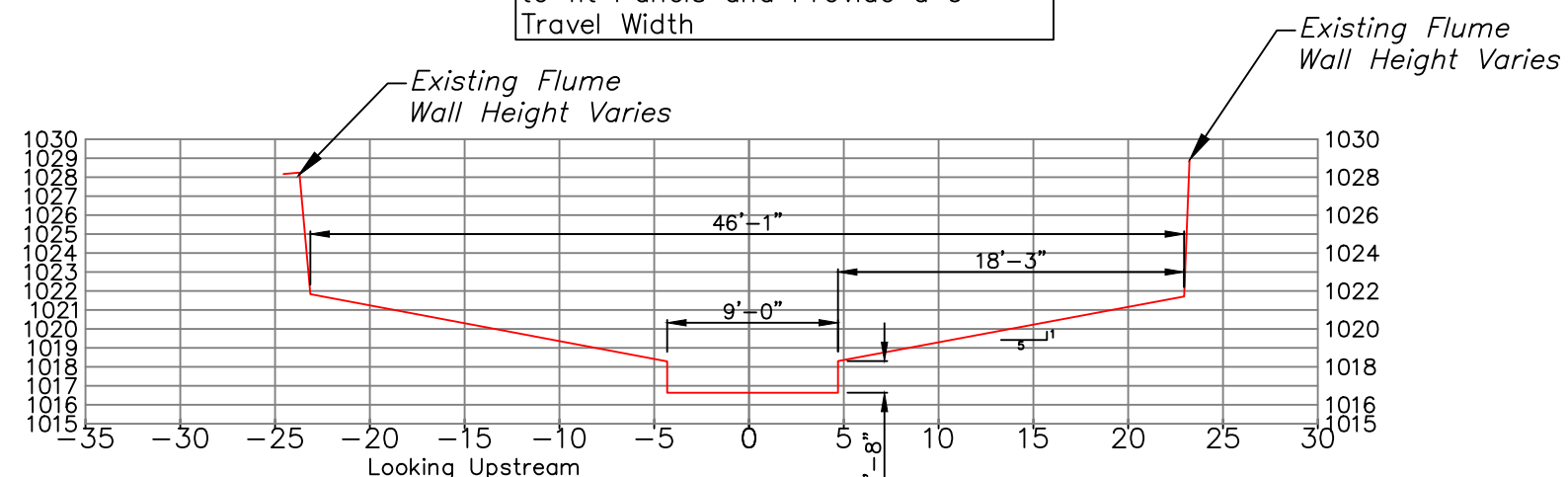
Scale: 1" = 5'



Typical Channel Section Sta 68+29

Scale: 1" = 5'

Note: Minimum of 15'-10" Needed to fit Panels and Provide a 9' Travel Width



Typical Existing Channel Section Sta 105+55

Scale: 1" = 5'



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

BAR IS ONE INCH ON ORIGINAL DRAWING.

SCALE VERIFICATION

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

0 1"

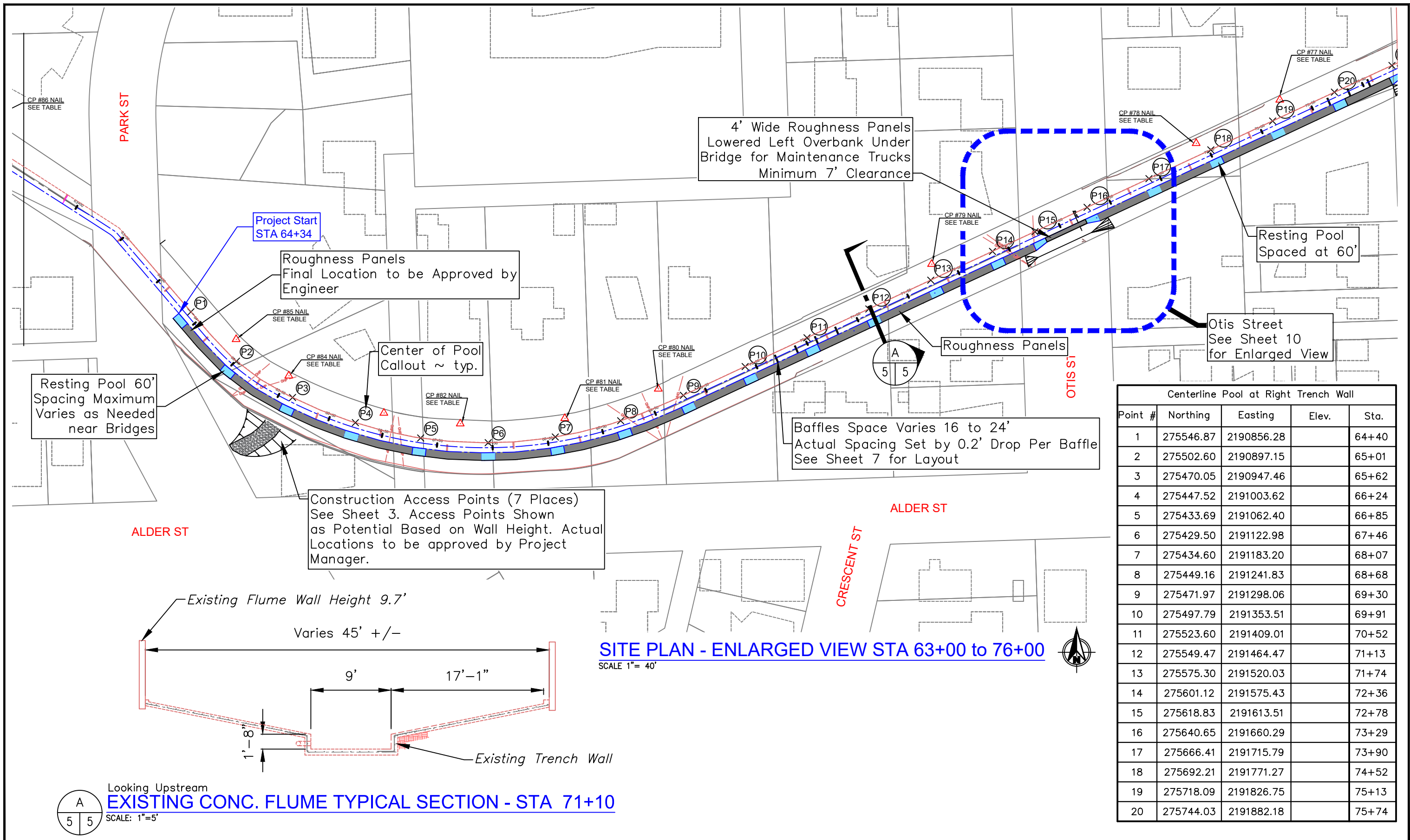
DESIGNED BY:
WATERFALL ENGINEERING

CHINOOK ENGINEERING

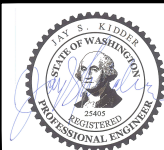
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN

DATE:
12/01/2017

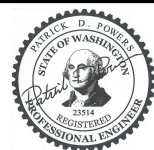
Overall Profile and Typ Sections



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

BAR IS ONE INCH ON ORIGINAL DRAWING.

SCALE VERIFICATION

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

0 1"

DESIGNED BY:
WATERFALL ENGINEERING

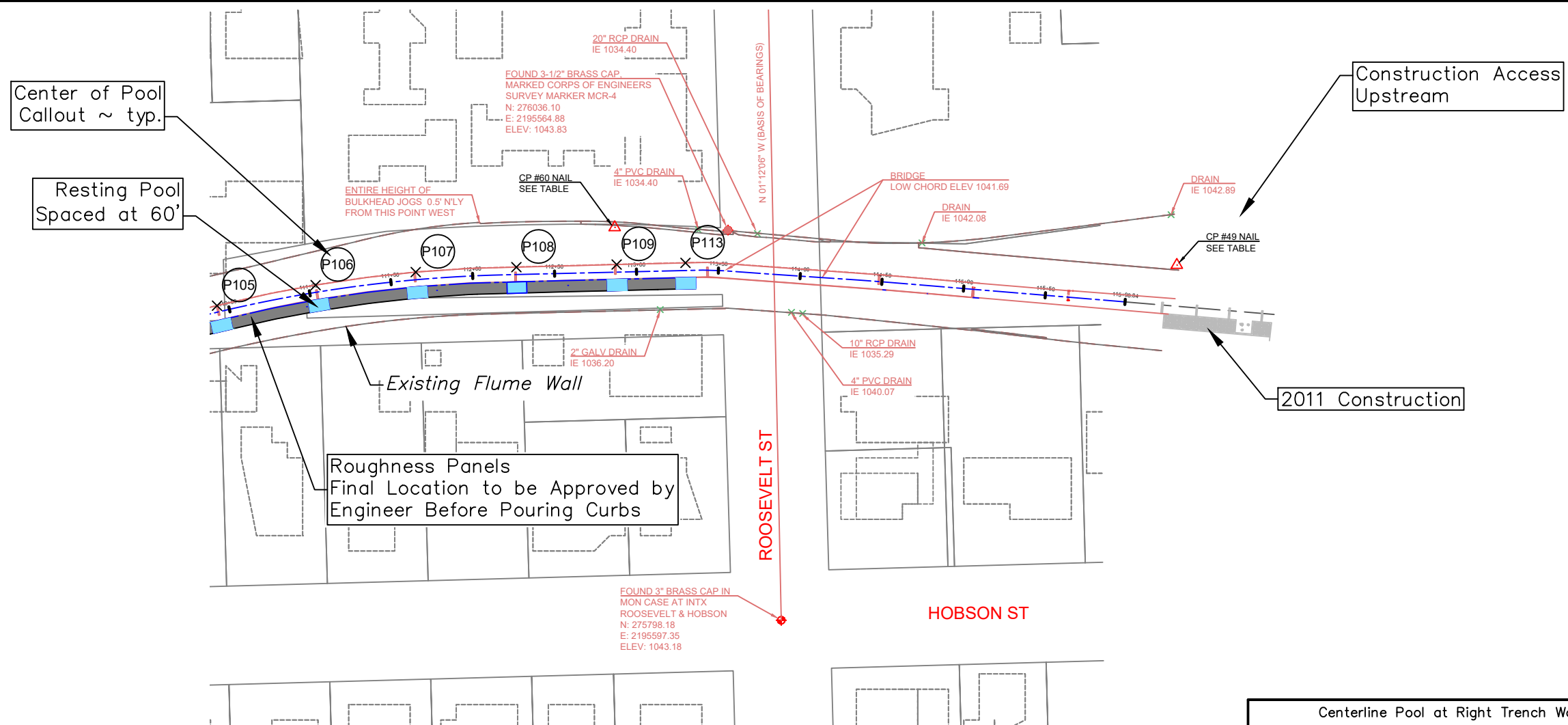
DRAWN BY:
CHINOOK ENGINEERING

DIMENSIONS DRAFTING & DESIGN

DATE:
12/01/2017

Site Plan - Enlarged View
63+00 to 76+00

5 **20**
SHEET OF



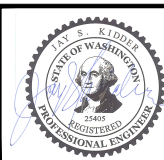
SITE PLAN - ENLARGED VIEW STA 111+00 to 116+00
 SCALE 1"= 40'



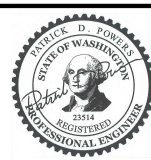
Centerline Pool at Right Trench Wall				
Point #	Northing	Easting	Elev.	Sta.
107	276010.48	2195374.34		111+66
108	276013.48	2195435.74		112+27
109	276015.08	2195496.92		112+88
113	276016.08	2195538.91		113+30



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017

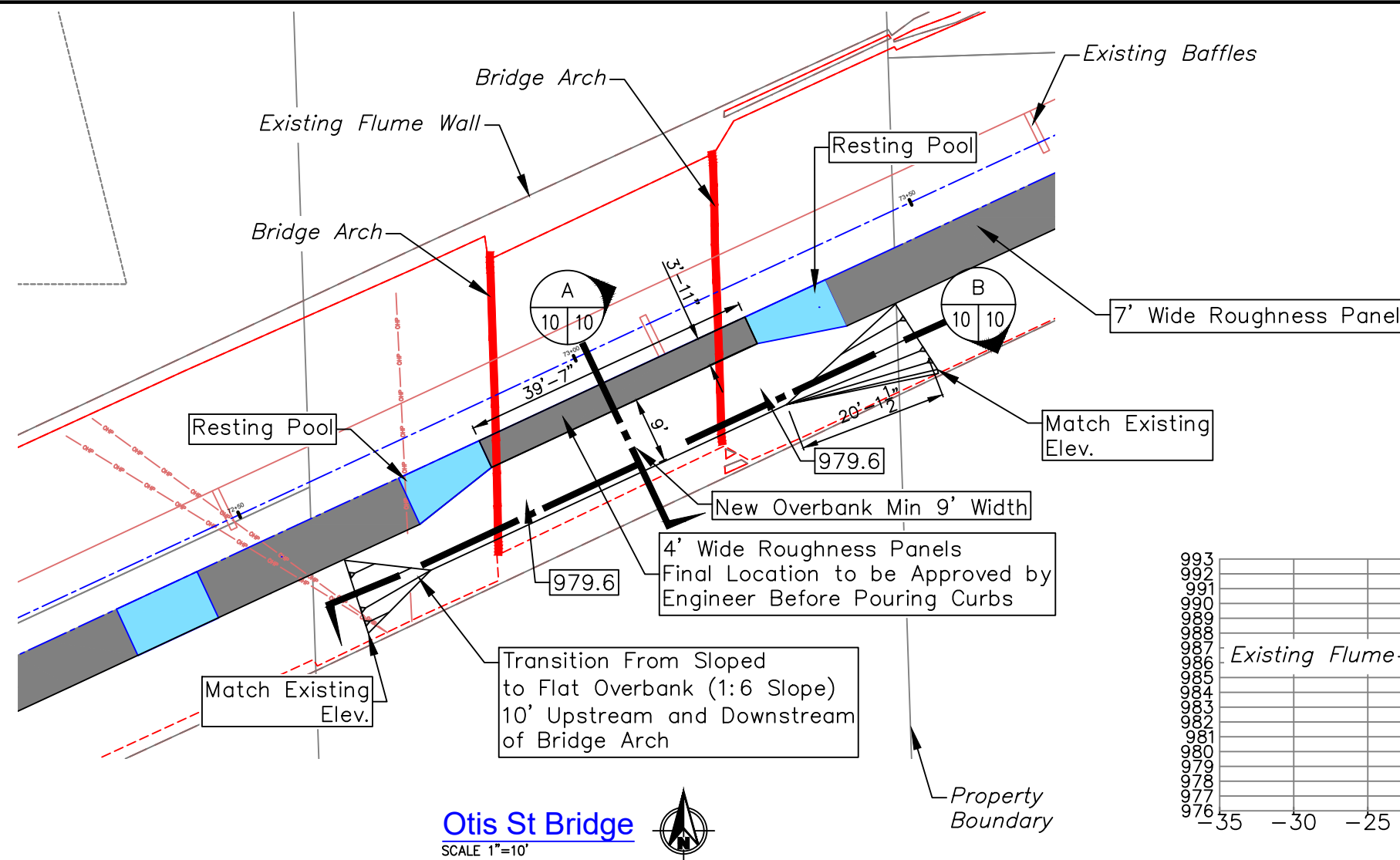


12/1/2017

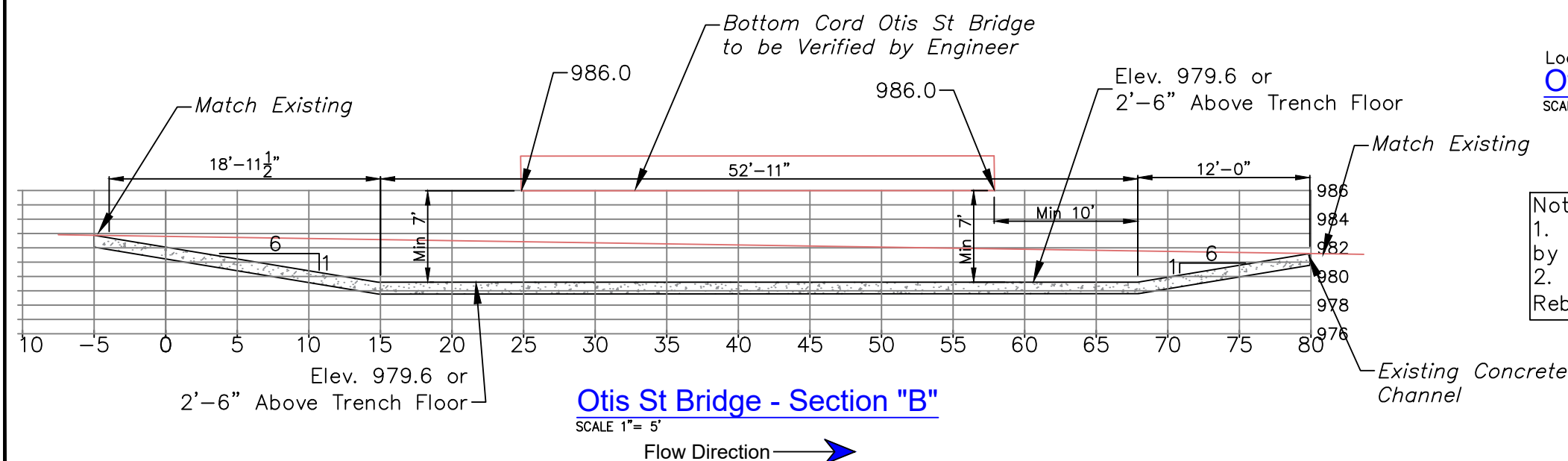
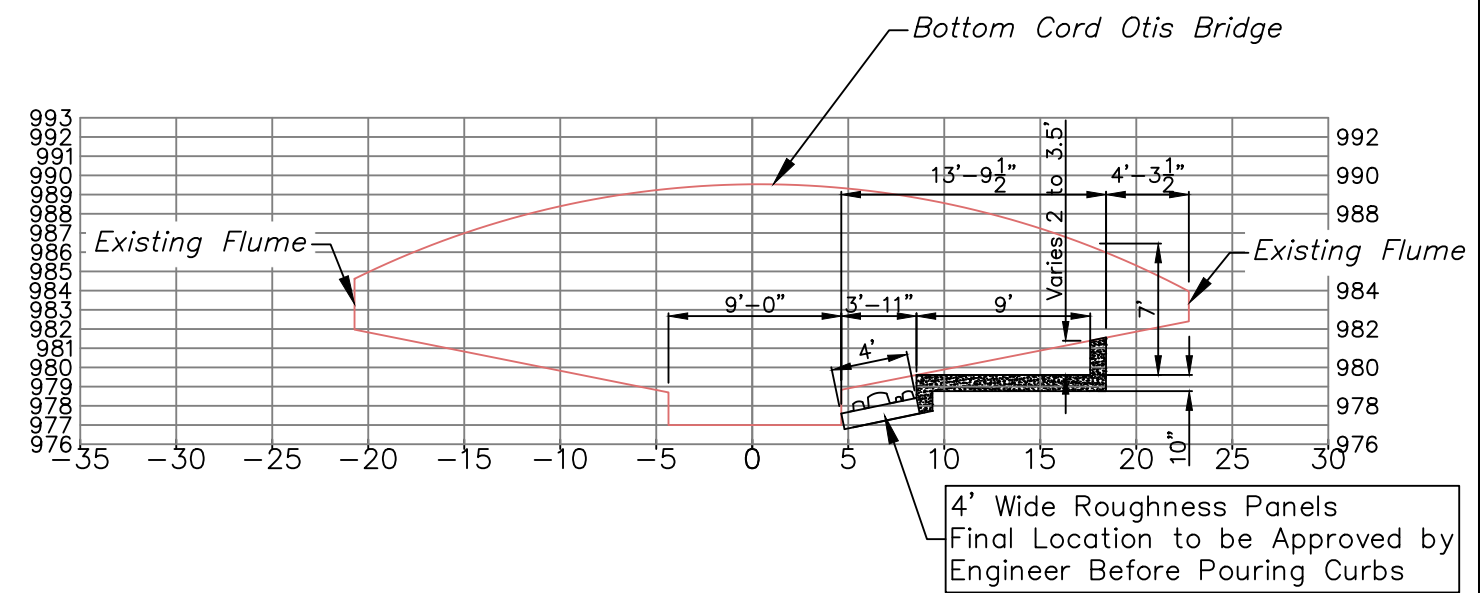
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
SCALE VERIFICATION				
BAR IS ONE INCH ON ORIGINAL DRAWING.			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
0			1"	

DESIGNED BY:
WATERFALL ENGINEERING
 CHINOOK ENGINEERING
 DRAWN BY:
 DIMENSIONS DRAFTING & DESIGN
 DATE:
 12/01/2017

Site Plan - Enlarged View STA 111+00 to 116+00



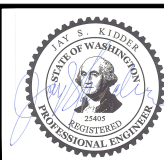
Transition from 4' Wide Panel to 7' Wide with Resting Pool. Slope Overbank at 7' Wide Panel to Match New Surface Under Bridge



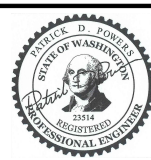
Note:
1. All Final Dimensions and Locations to be Staked in Field by Engineer.
2. See Sheet 20 for Rebar Placement/Design



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS					DESCRIPTION
REV	DATE	BY	APPD		

BAR IS ONE INCH ON ORIGINAL DRAWING.

SCALE VERIFICATION

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

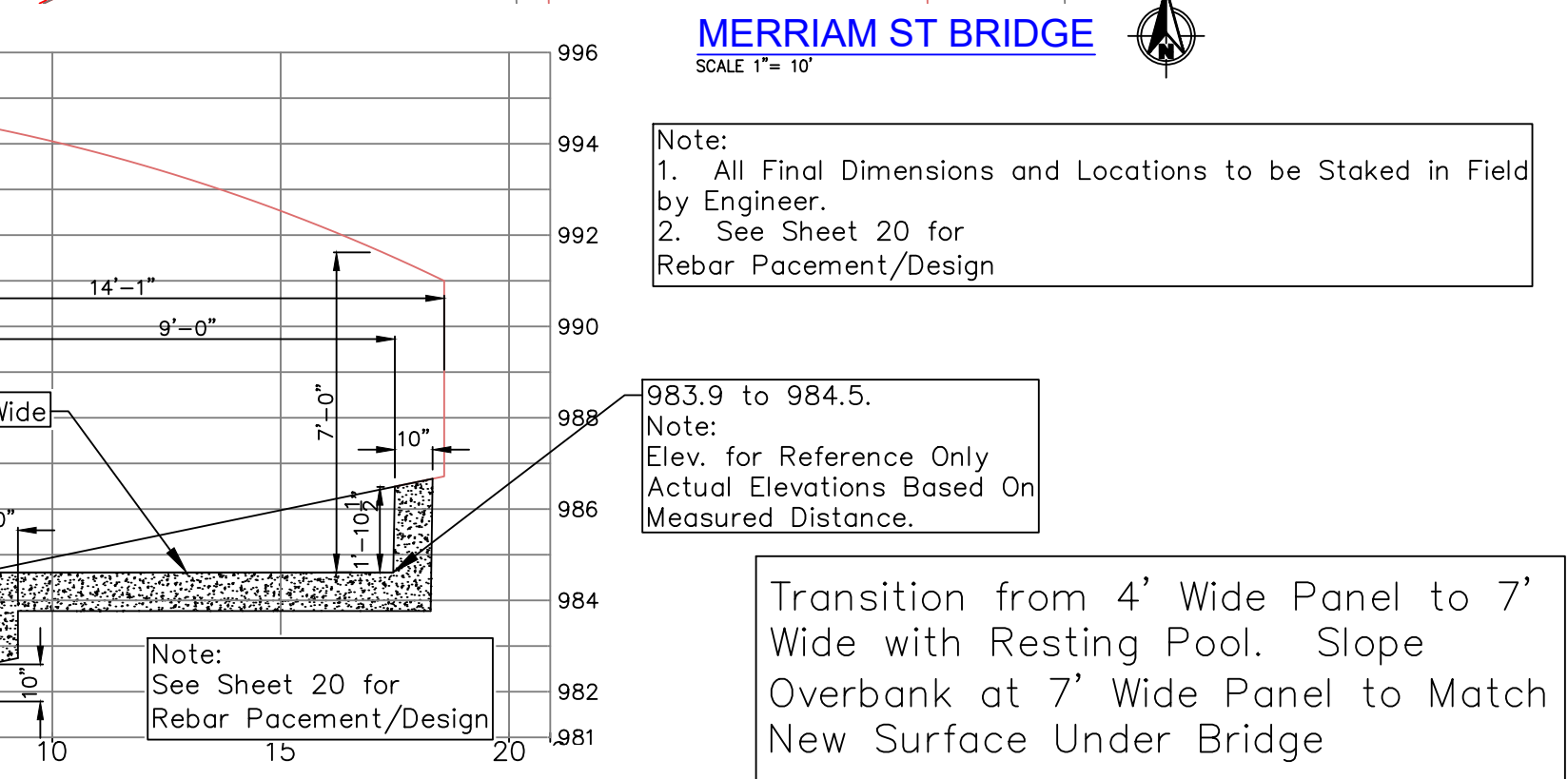
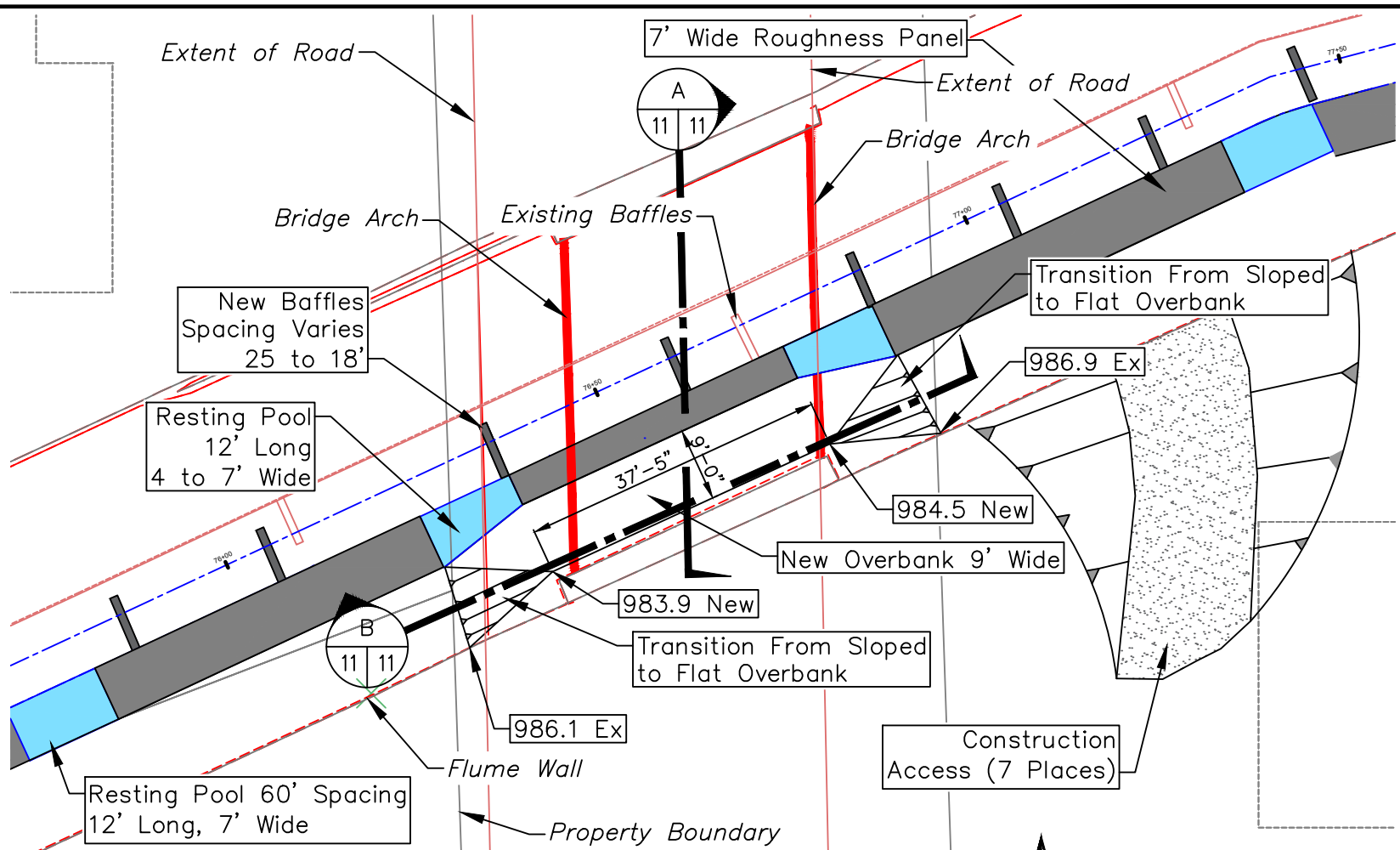
0 1"

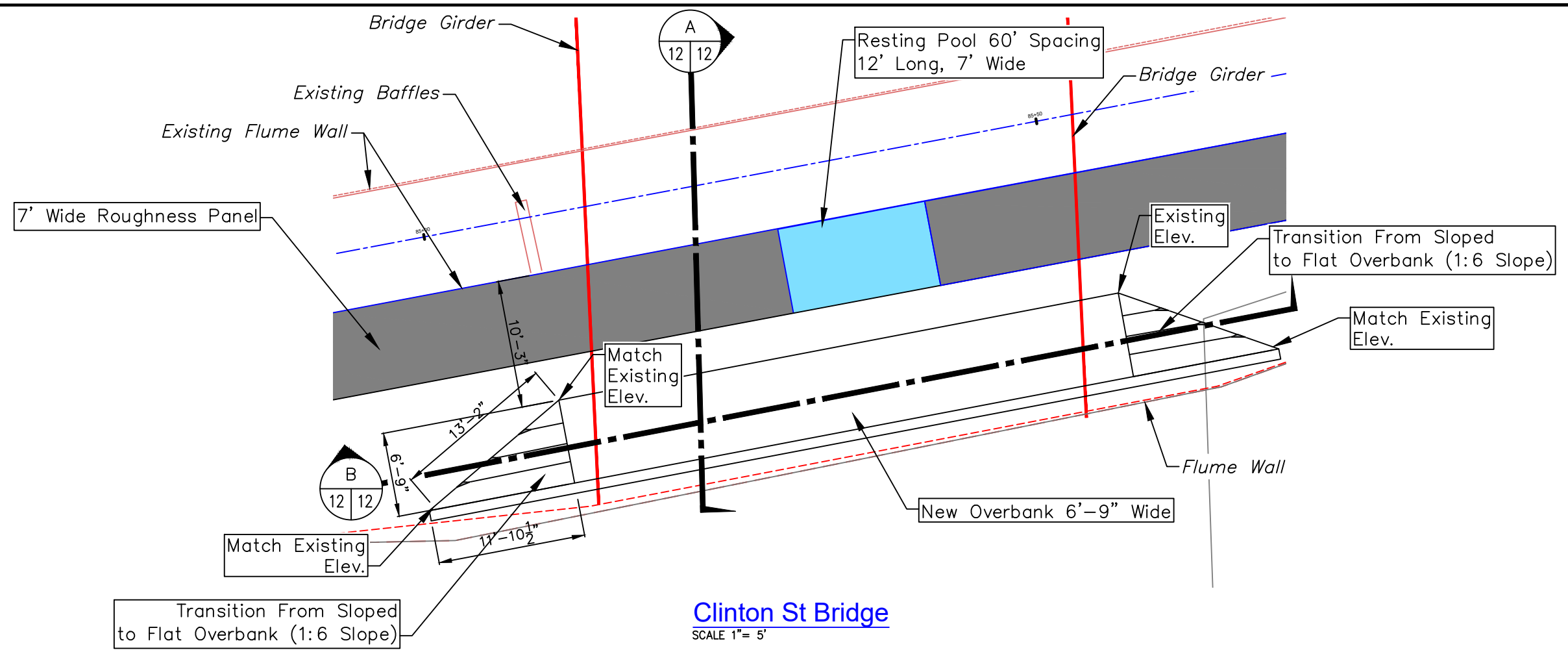
DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING

DRAWN BY:
DIMENSIONS DRAFTING & DESIGN

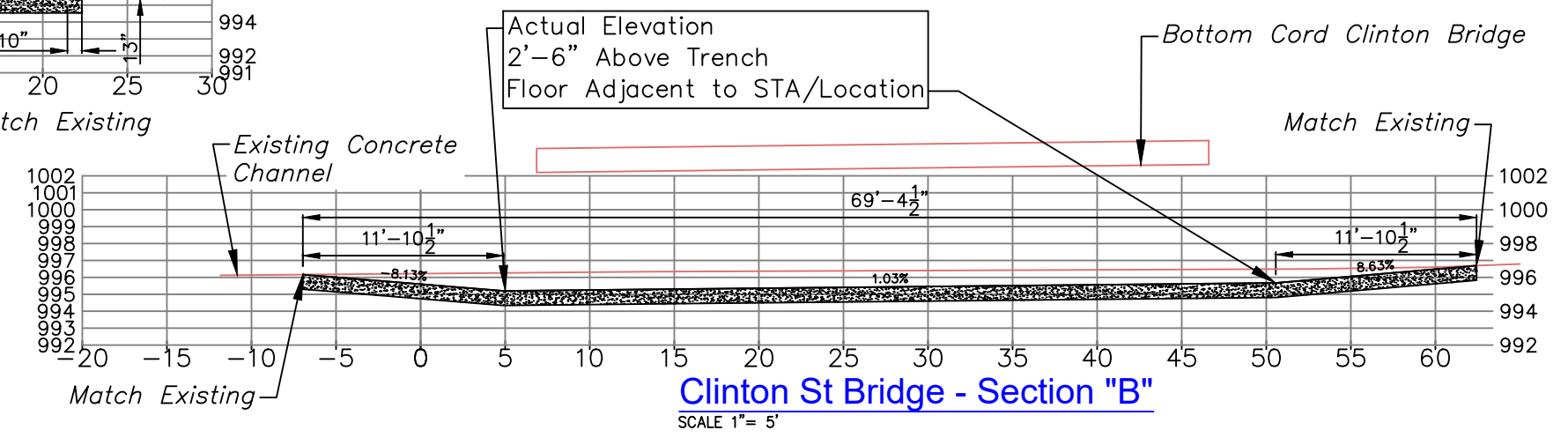
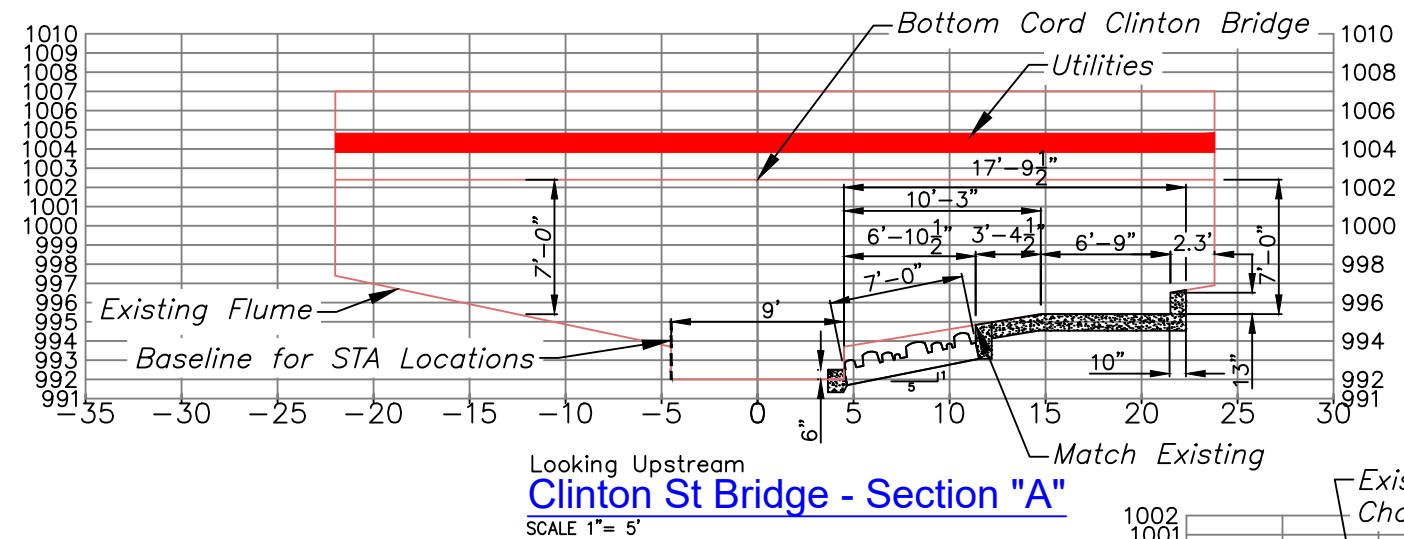
DATE:
12/01/2017

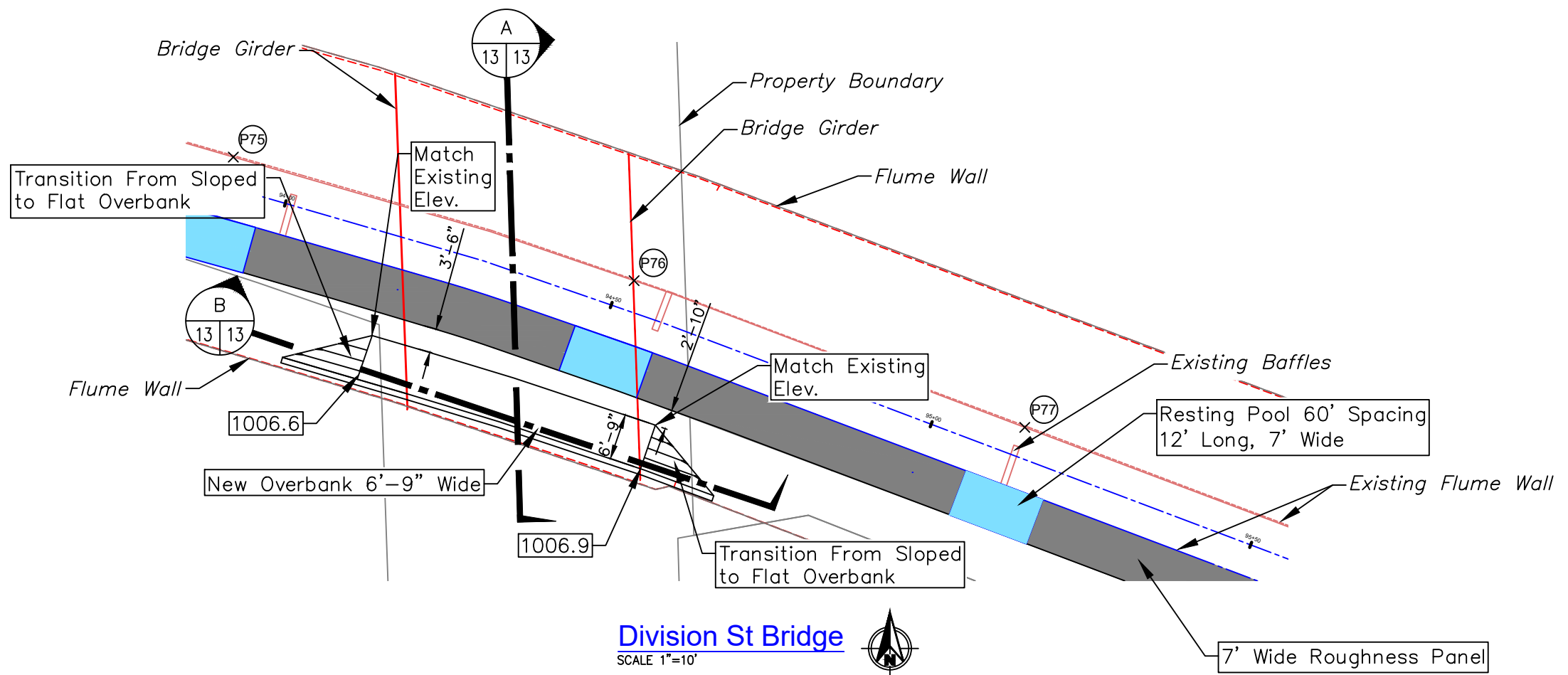
Plan and Sections Otis St Bridge



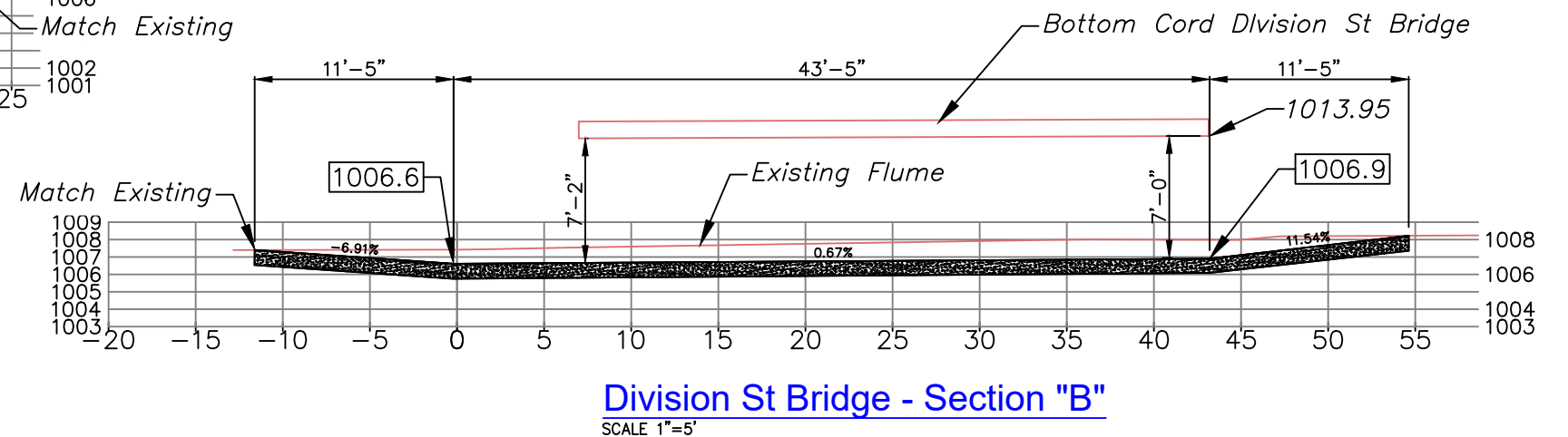
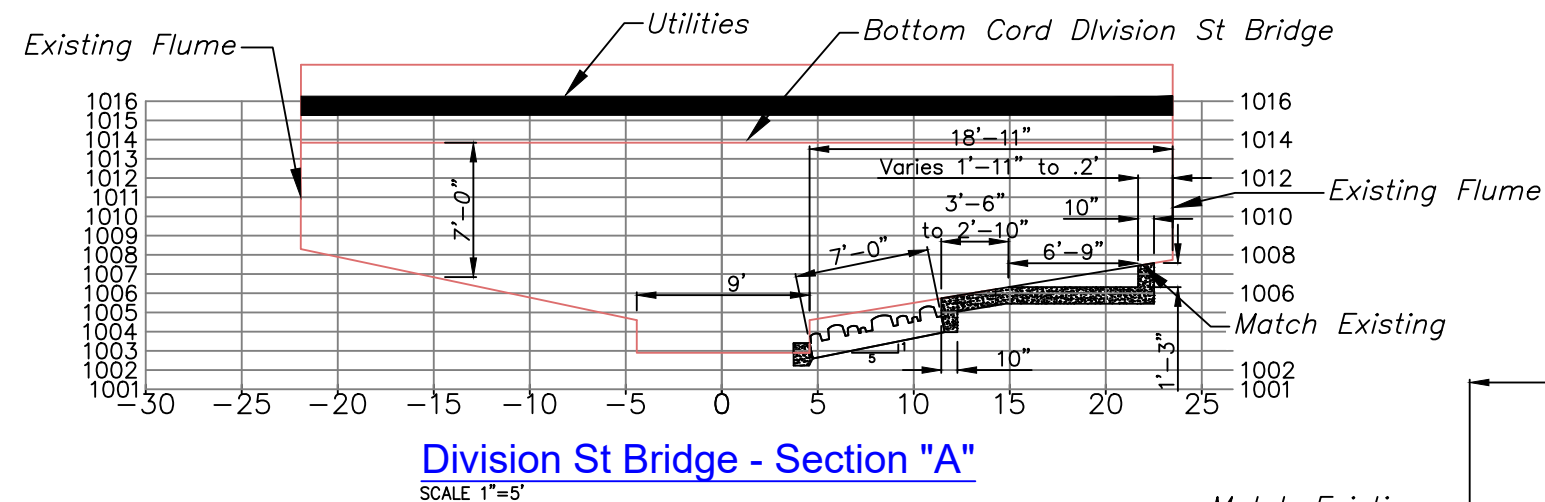


Note:
 1. All Final Dimensions and Locations to be Staked in Field by Engineer.
 2. See Sheet 20 for Rebar Placement/Design

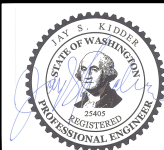




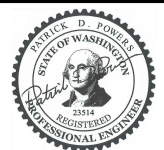
Note:
 1. All Final Dimensions and Locations to be Staked in Field by Engineer.
 2. See Sheet 20 for Rebar Placement/Design



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



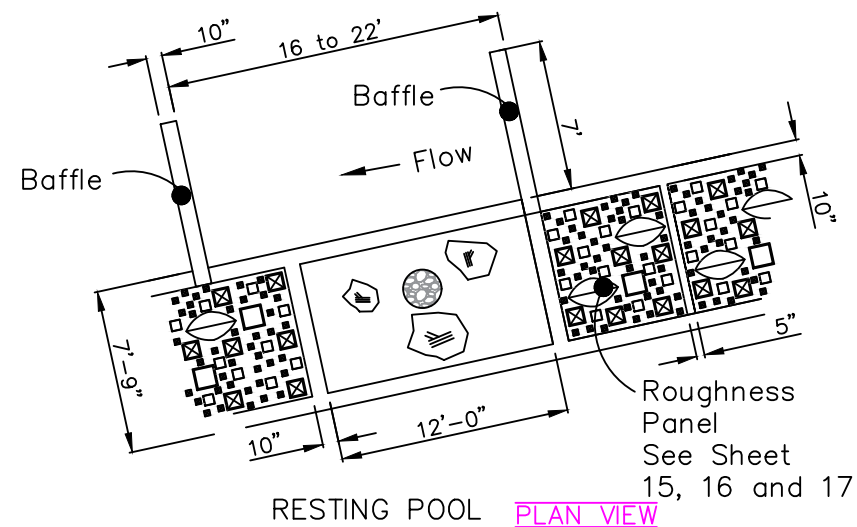
12/1/2017

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"				
SCALE VERIFICATION IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				

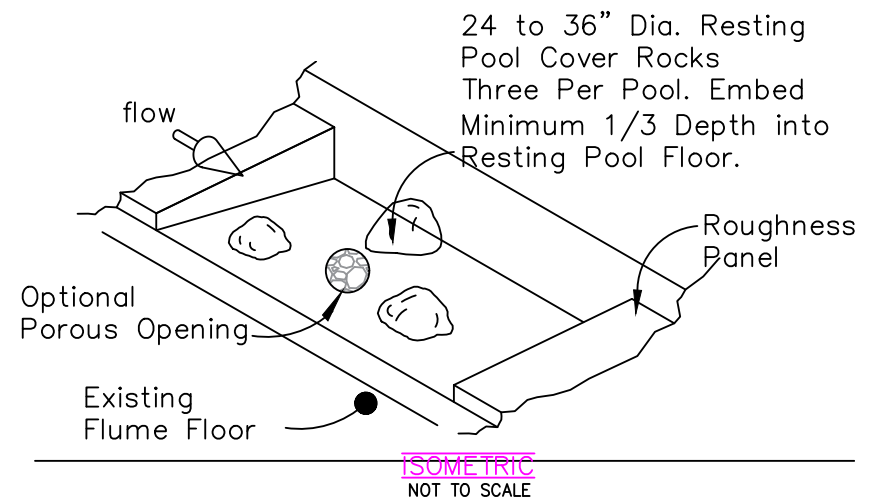
DESIGNED BY:
 WATERFALL ENGINEERING
 CHINOOK ENGINEERING
 DRAWN BY:
 DIMENSIONS DRAFTING & DESIGN
 DATE:
 12/01/2017

Plan and Sections Division St Bridge

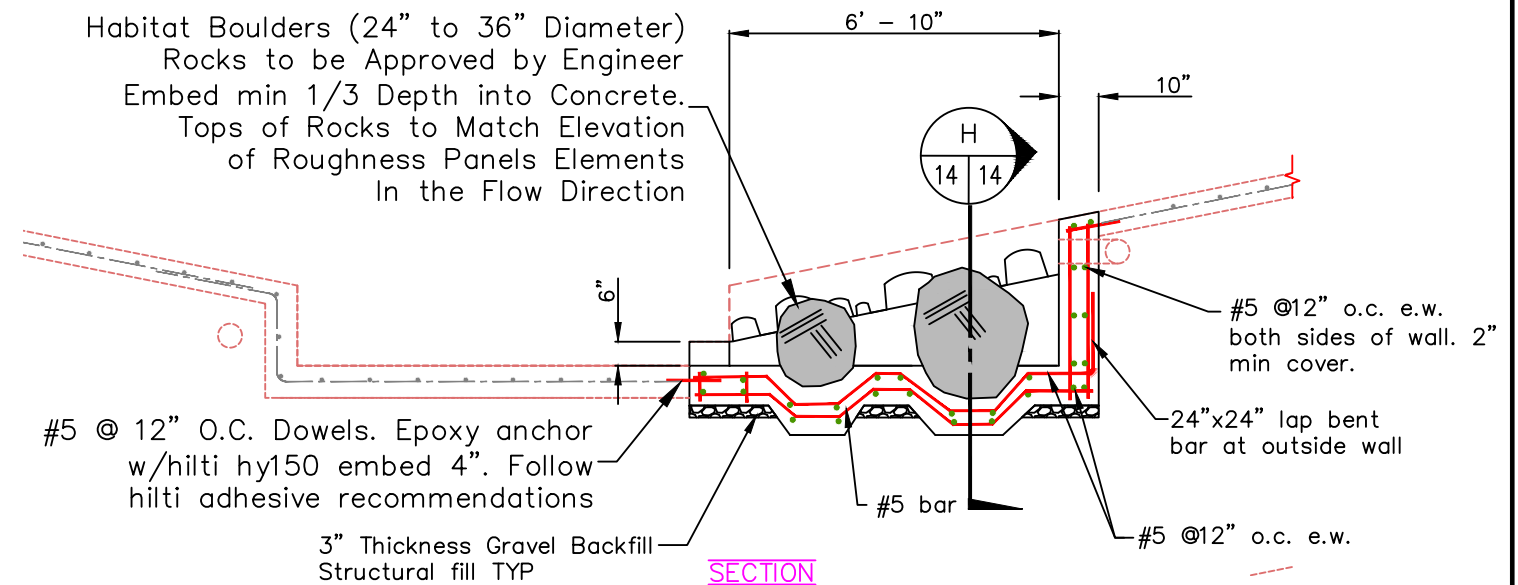
13 20
 SHEET OF



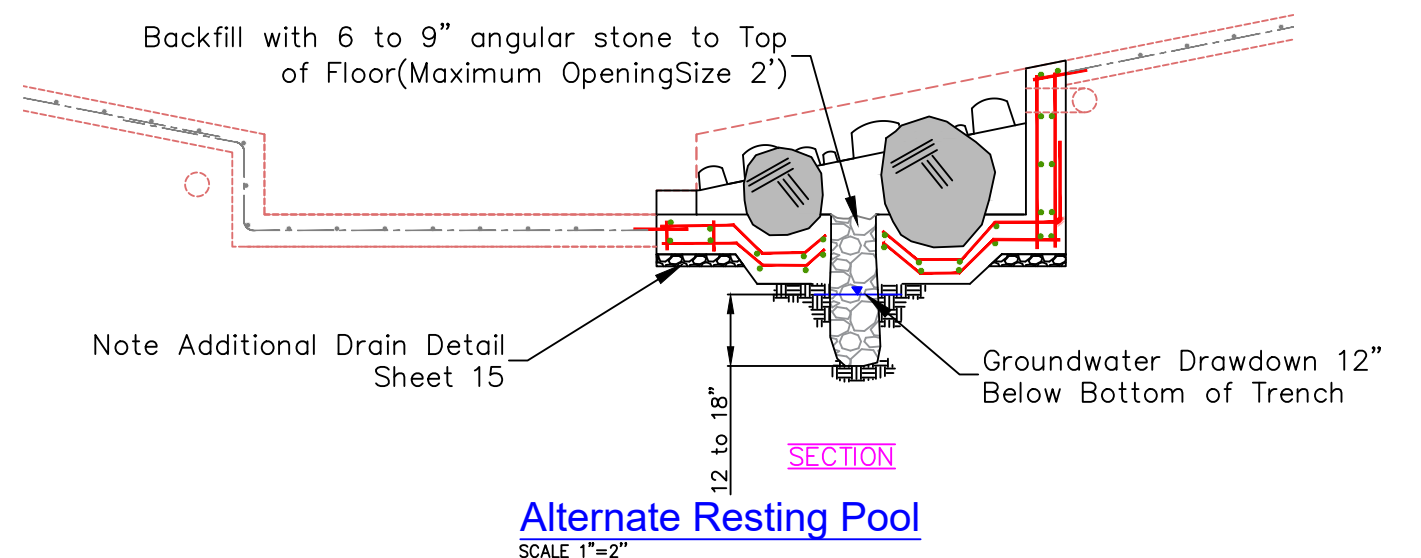
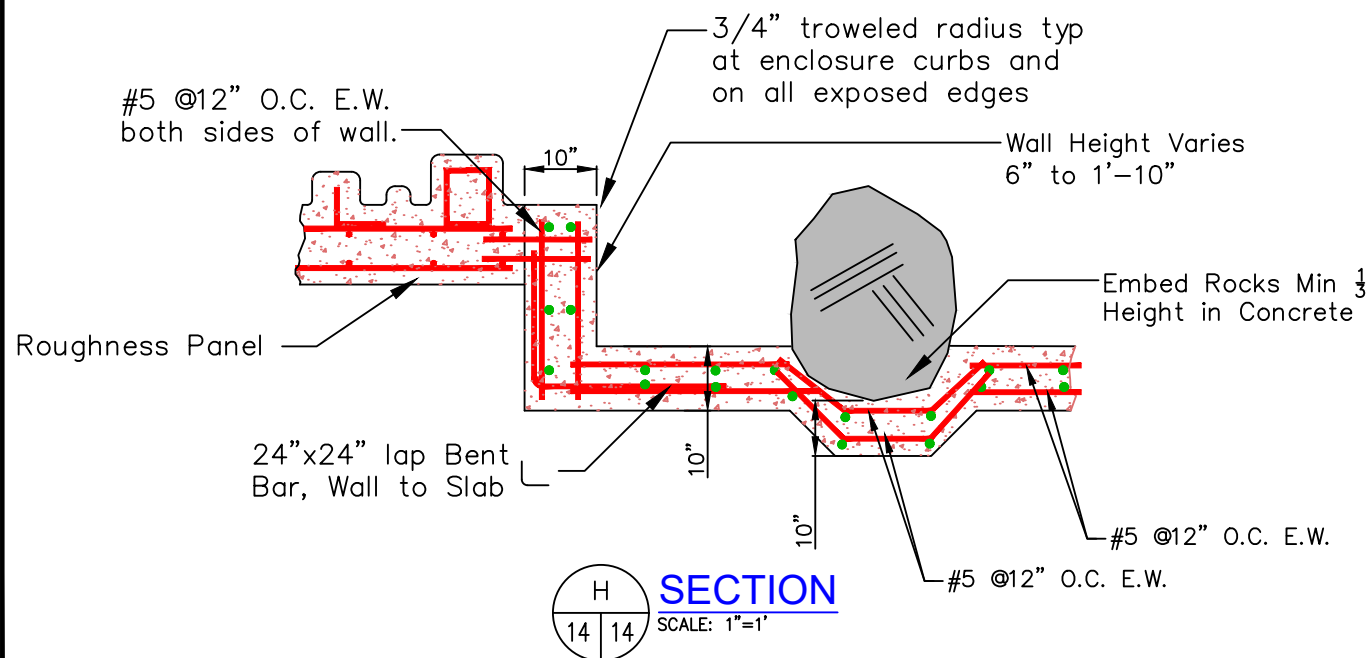
Top of Resting Pool Rocks to Match Average Height of Roughness Elements on Panels. Actual Rock Shape and Placement Shall be Approved by Engineer Prior to Delivery and Placement.



- Note:
1. All saw cut concrete with exposed rebar shall be chipped back to expose 3" length of steel.
 2. Steel rebar shall be cut off and the concrete cone shaped hole patched with Hilti Hit HY150 epoxy. minimize hole diameter to cut steel rebar.
 3. Final epoxy cover over steel shall be 1 1/2" minimum
 4. All saw cut concrete edges to new concrete placement contacts shall be provided with concrete bonding agent prior to placement of new concrete



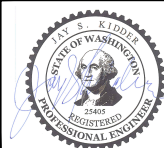
Typical Resting Pool
SCALE 1"=2"



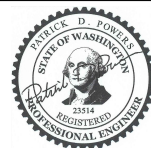
Alternate Resting Pool
SCALE 1"=2"



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

BAR IS ONE INCH ON ORIGINAL DRAWING.

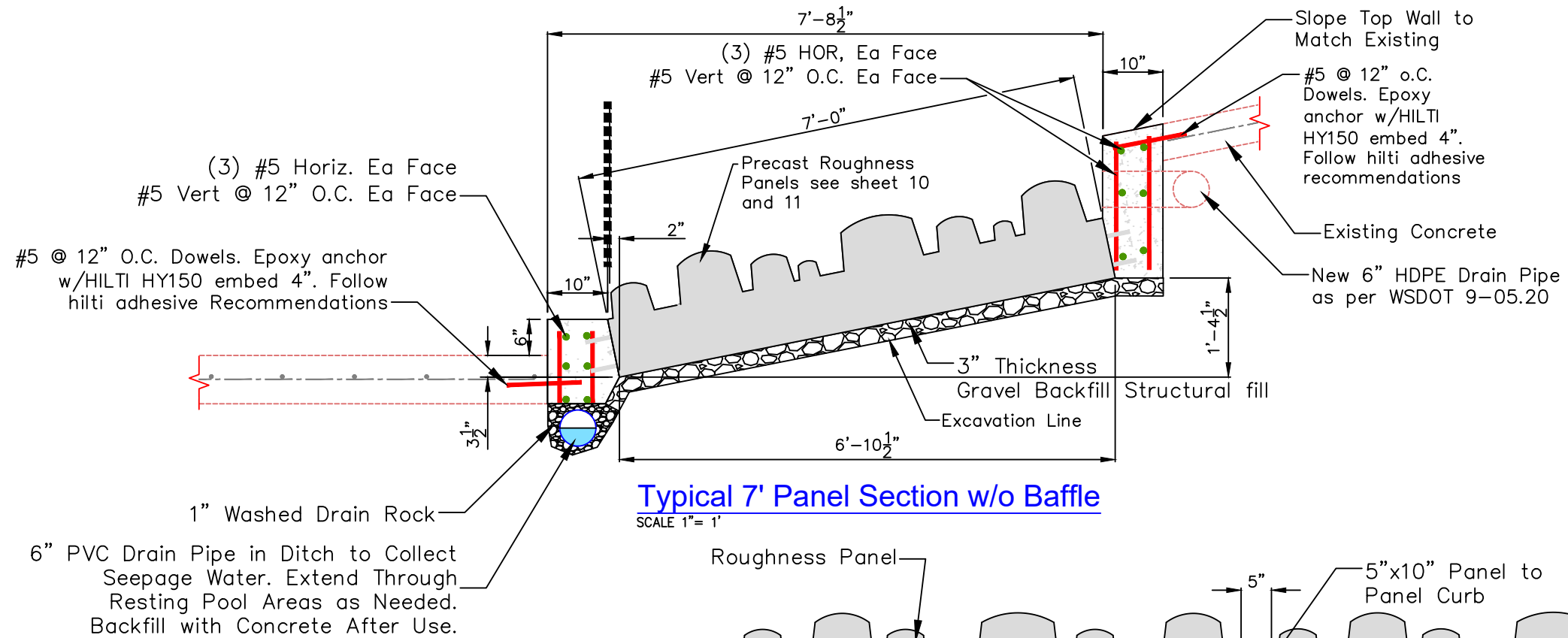
SCALE VERIFICATION: 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

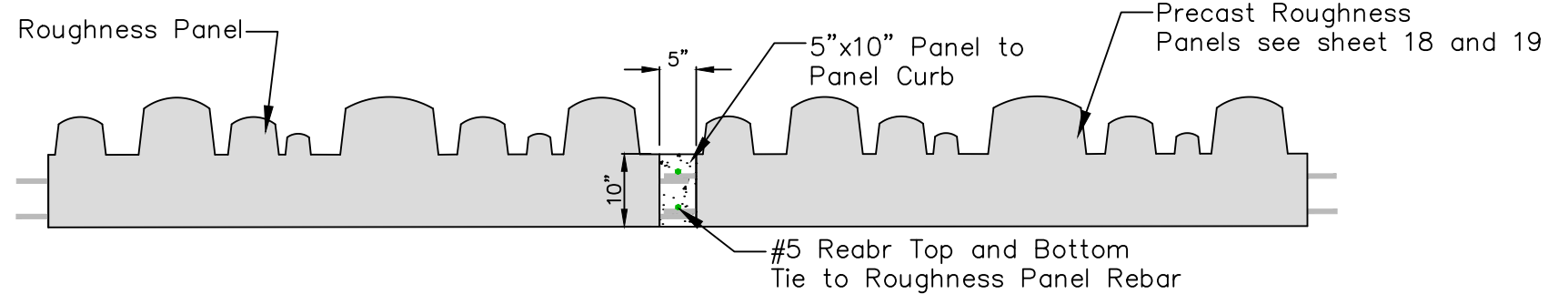
DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

Resting Pool Details

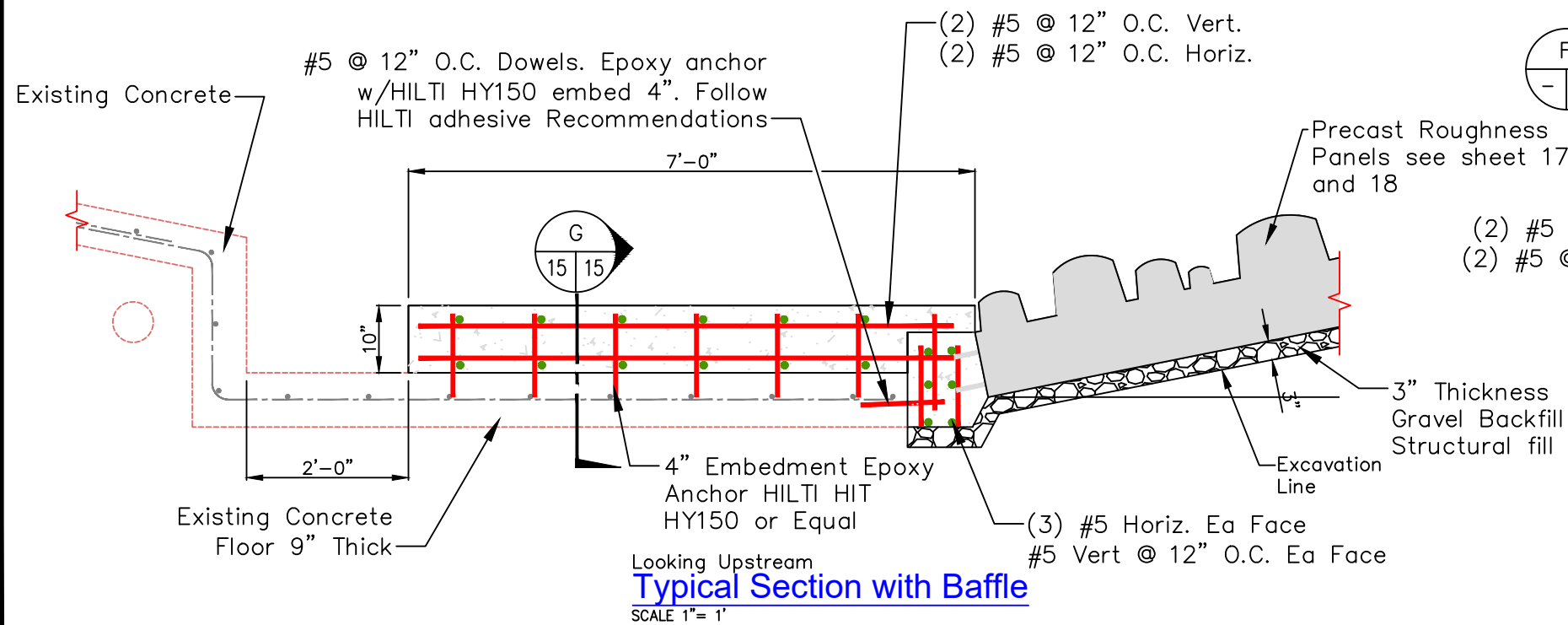
14 20
SHEET OF



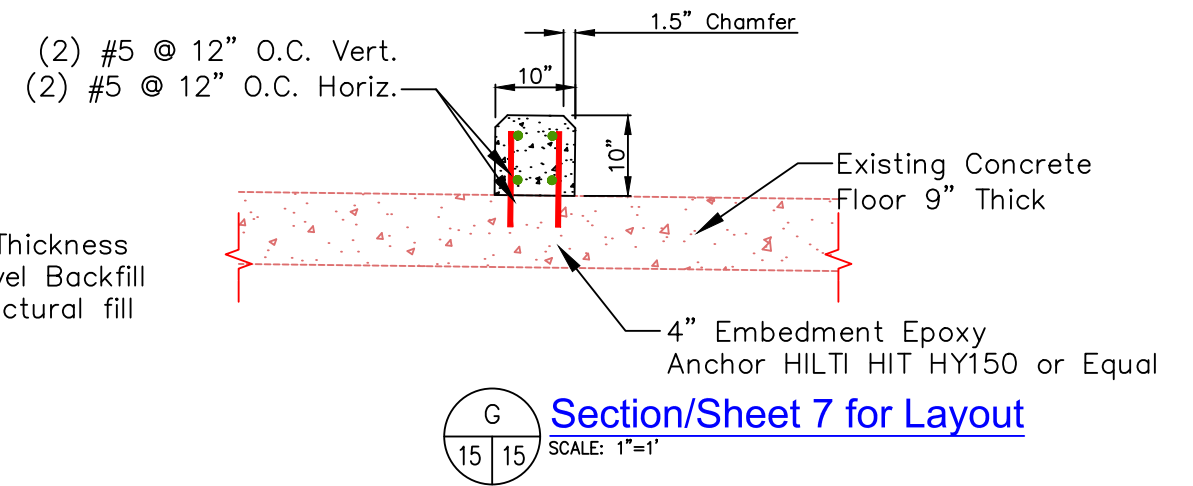
Typical 7' Panel Section w/o Baffle
SCALE 1"= 1'



Panel to Panel Section
SCALE: 1"=1'



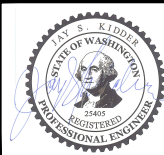
Typical Section with Baffle
SCALE 1"= 1'



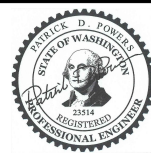
Section/Sheet 7 for Layout
SCALE: 1"=1'



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



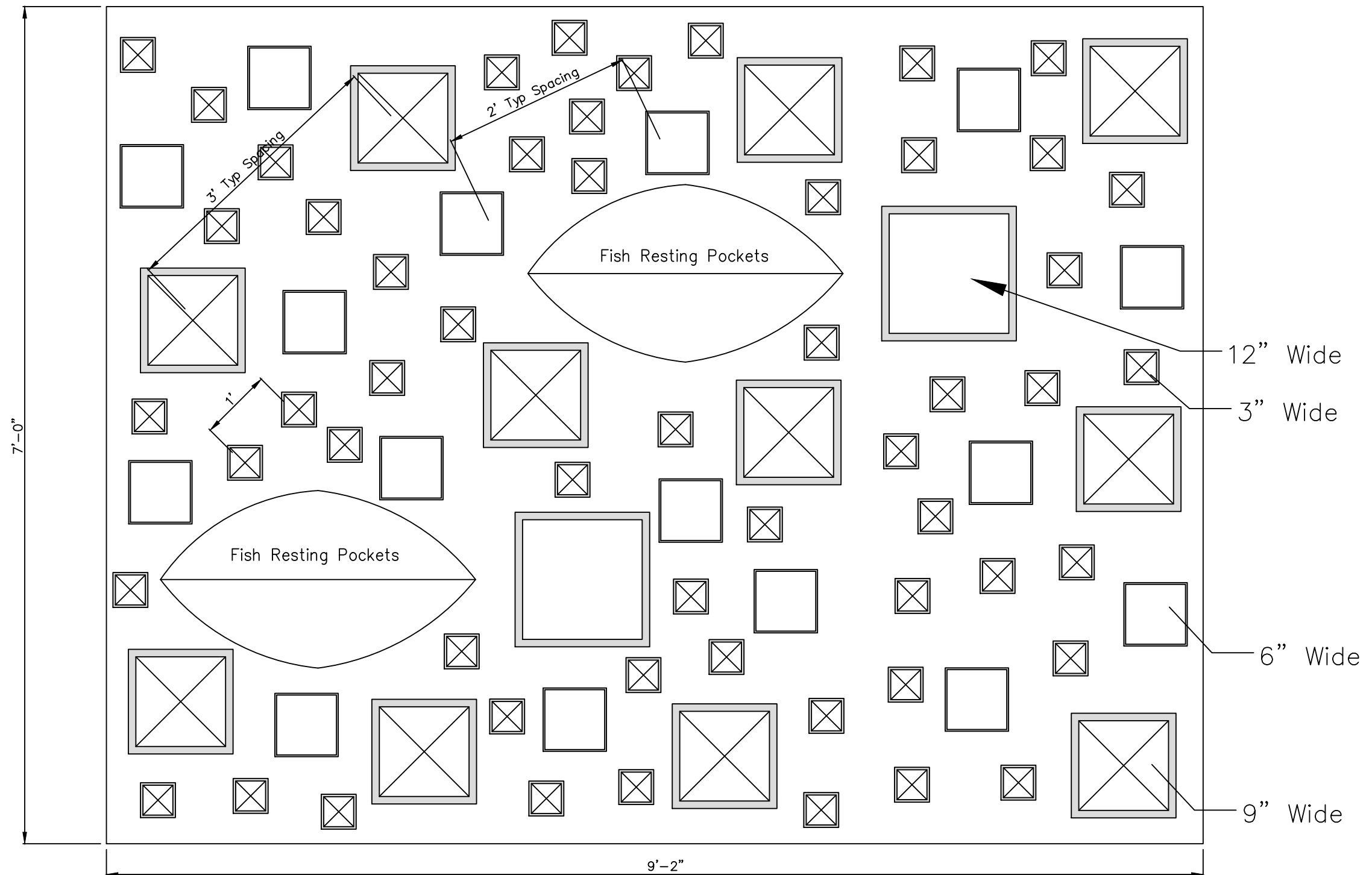
12/1/2017

REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION
SCALE VERIFICATION				
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				
0 1"				

DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

Roughness Panel / Baffle Details

← Flow Direction Trench Side



Roughness Panel Layout
Not to Scale



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

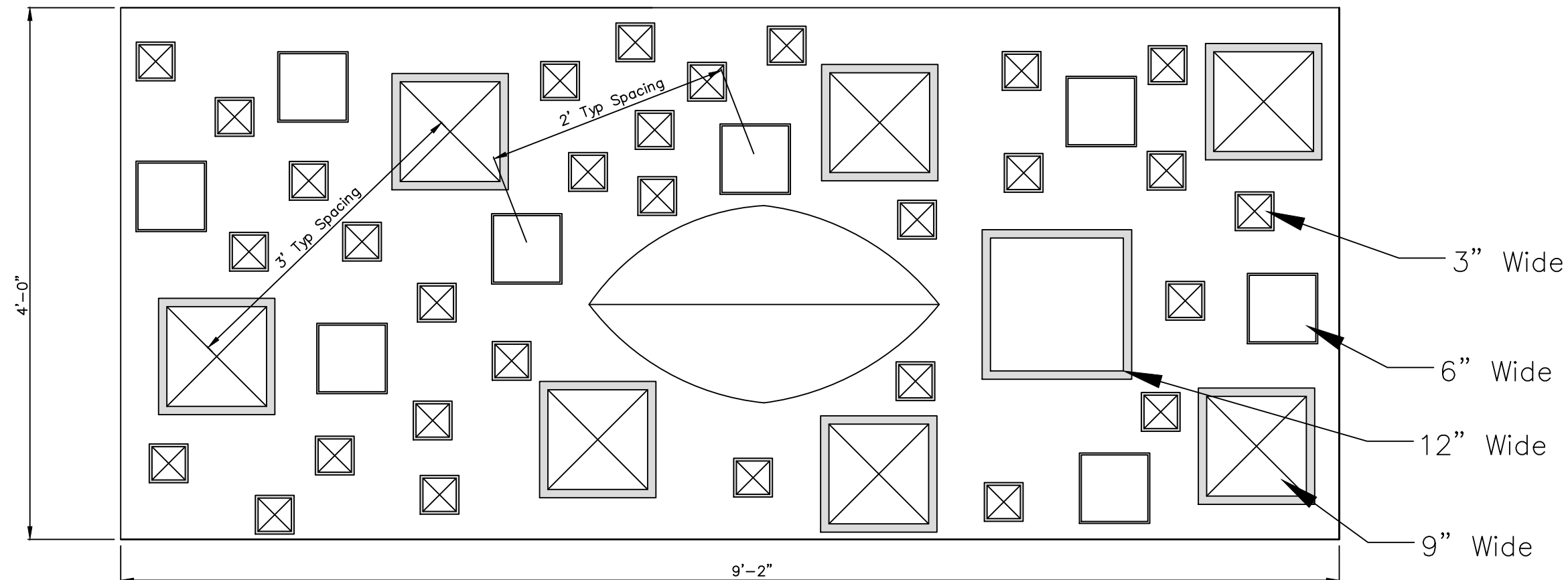
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

7' Concrete Panel Detail

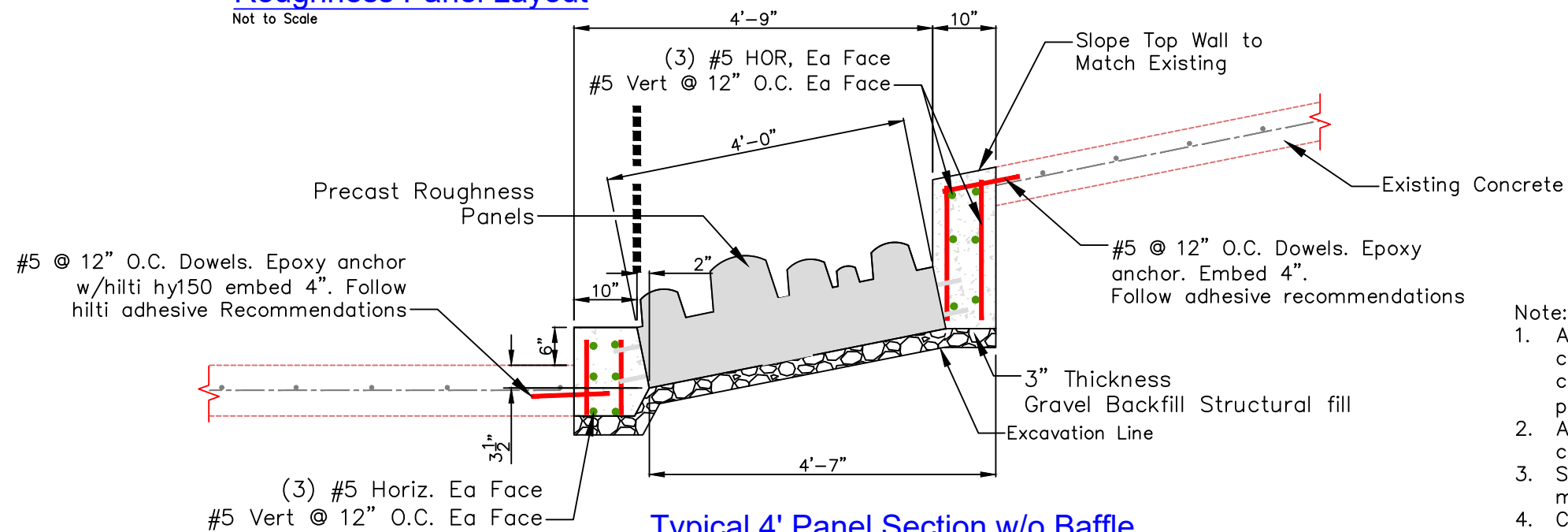
16 20
SHEET OF

Flow Direction ← Trench Side



Roughness Panel Layout

Not to Scale



Typical 4' Panel Section w/o Baffle

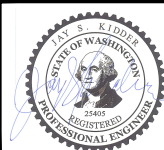
SCALE 1"= 1'

Note:

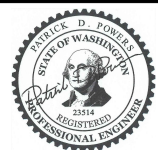
1. All gravel backfill and new construction backfill shall be compacted as structural fill as per WSDOT 2-03.3(14)C Method C.
2. All embankment compactions are called out as structural fill.
3. See specifications for details of material and WSDOT M41-10
4. Concrete Cover as Follows:
Ground Contact 3"
Walls and Curbs 2"



Mill Creek Fish Passage
Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
BAR IS ONE INCH ON ORIGINAL DRAWING.				SCALE VERIFICATION
0				1"
				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

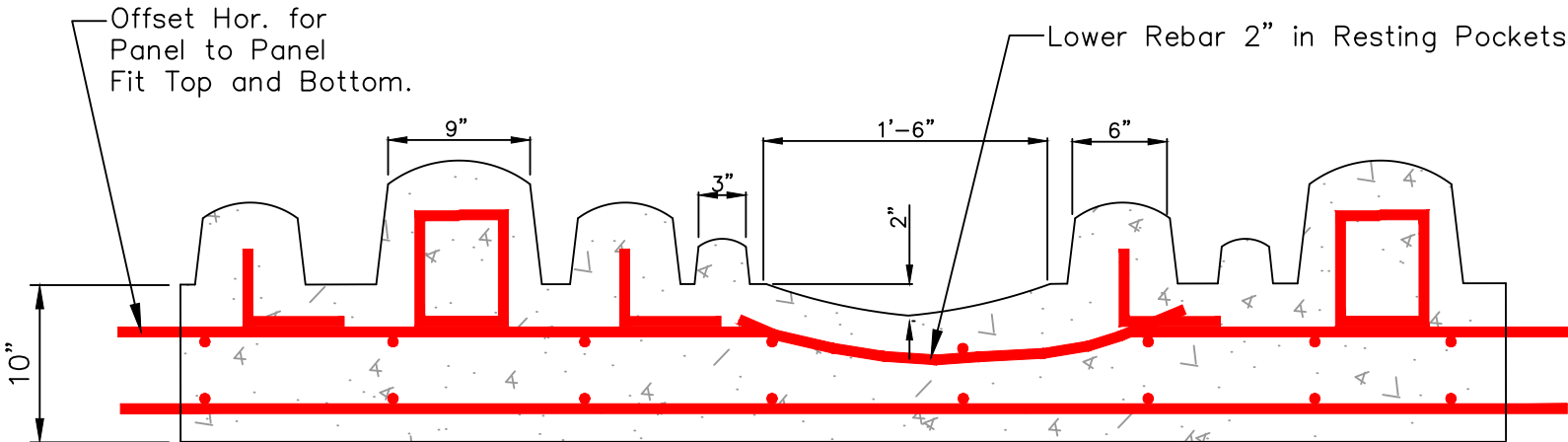
DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

4' Concrete Panel Detail

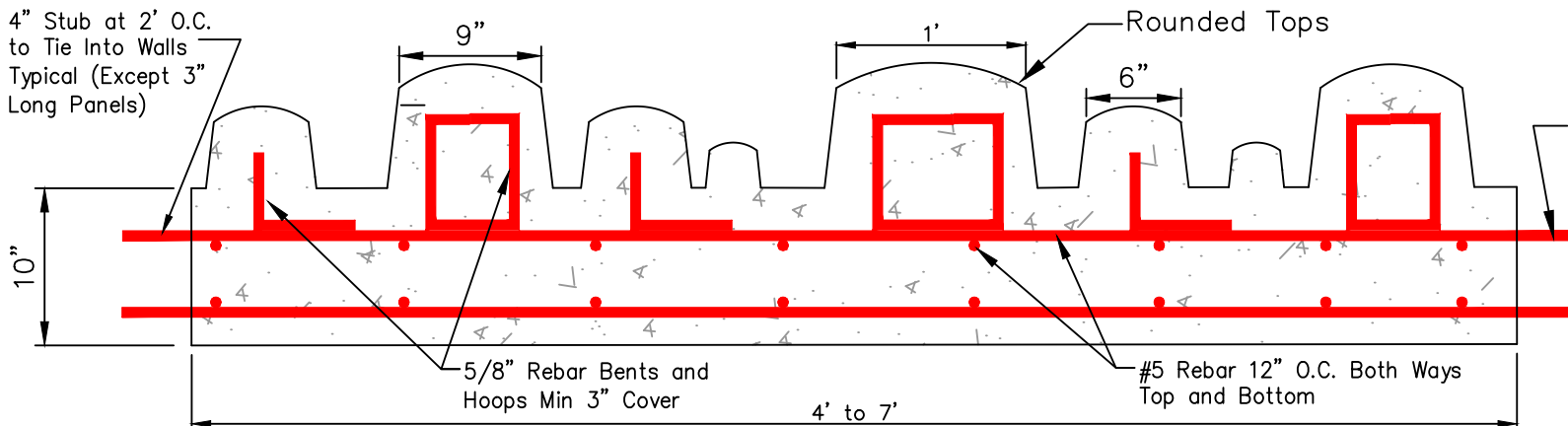
17 **20**
SHEET OF

Construction Notes:

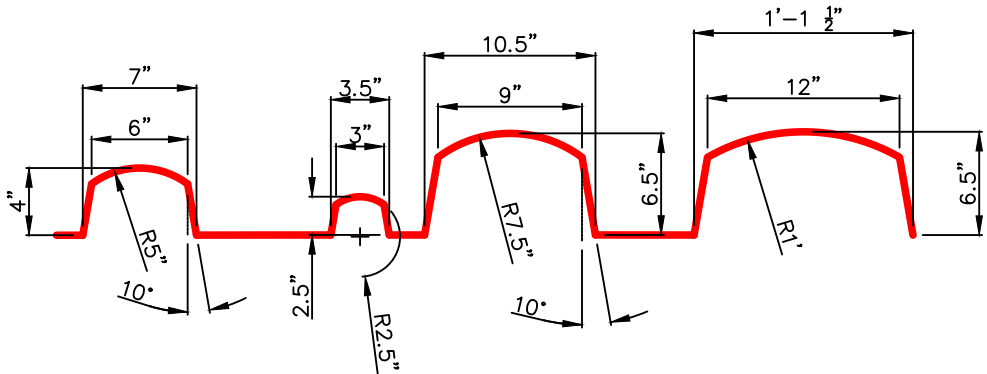
- 1. Layout of roughness elements shall be similar to plan view sketch. Start with location of 12" largest elements and depressions and then proceed with 9", 6" etc on down at spacing shown. Final layout to be approved by Engineer.
- 2. The Roughness panels shall be precast concrete panels.
- 3. Concrete Panels may be Removed From Forms After concrete strength has reach 4500 psi or greater.
- 4. Precast panels shall be drawn, and described in formal shop drawings approved in writing by the engineer prior to casting.
- 5. All precast panel shop drawings shall clearly show the weight and dimensions of each panel. lifting systems shall also be called out and specified by the precast plant.
- 6. Panel maximum length shall not exceed 10' and shorter panels are acceptable. Shop drawings shall identify a configuration in plan view and for each panel length.



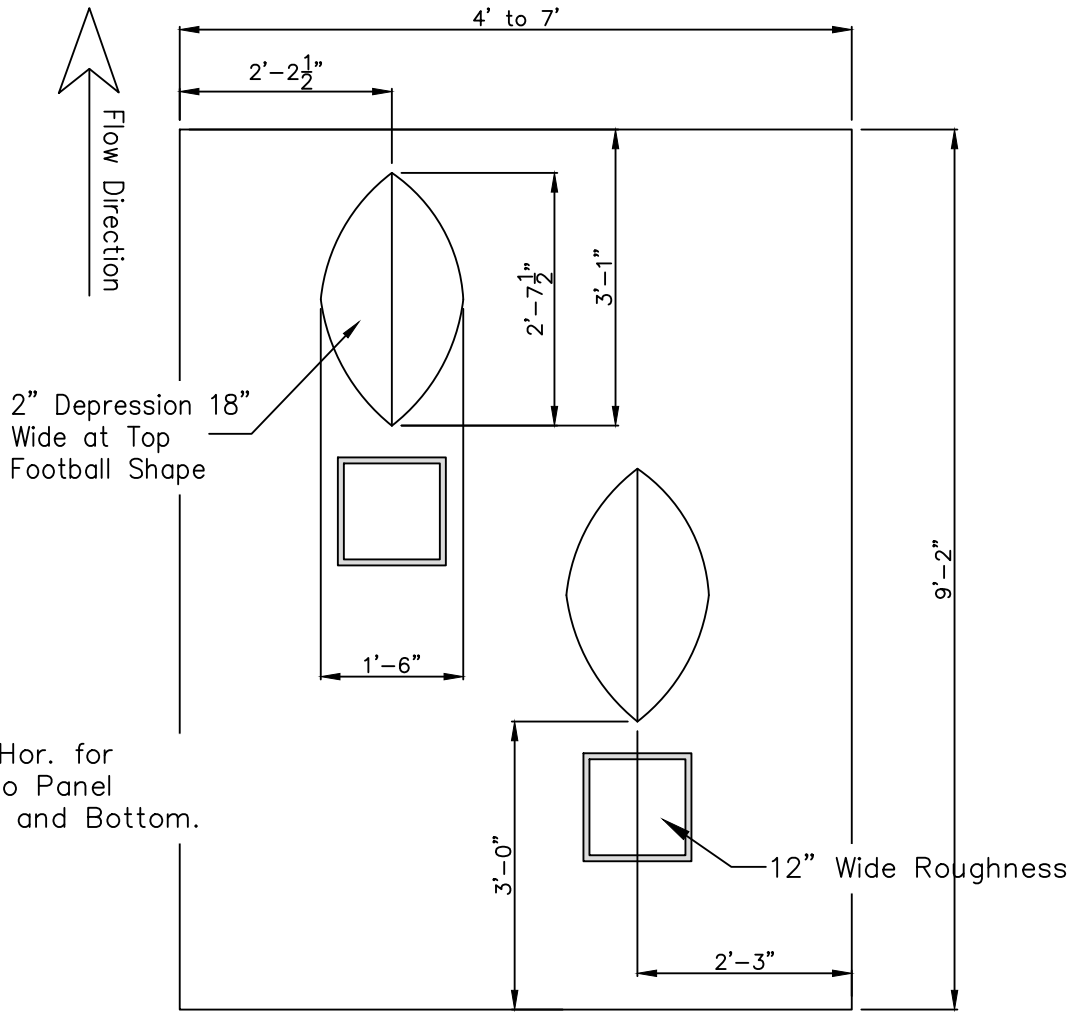
Typical Section Showing 2" Depression
Not To Scale



Typical Section
Not To Scale



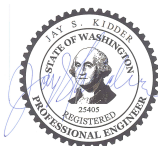
Roughness Detail
Not To Scale



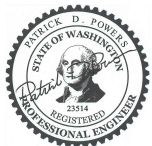
Roughness Panel Plan - Layout For 12" Roughness
Not to Scale



Mill Creek Fish Passage
Park Street to Roosevelt Street



12/1/2017

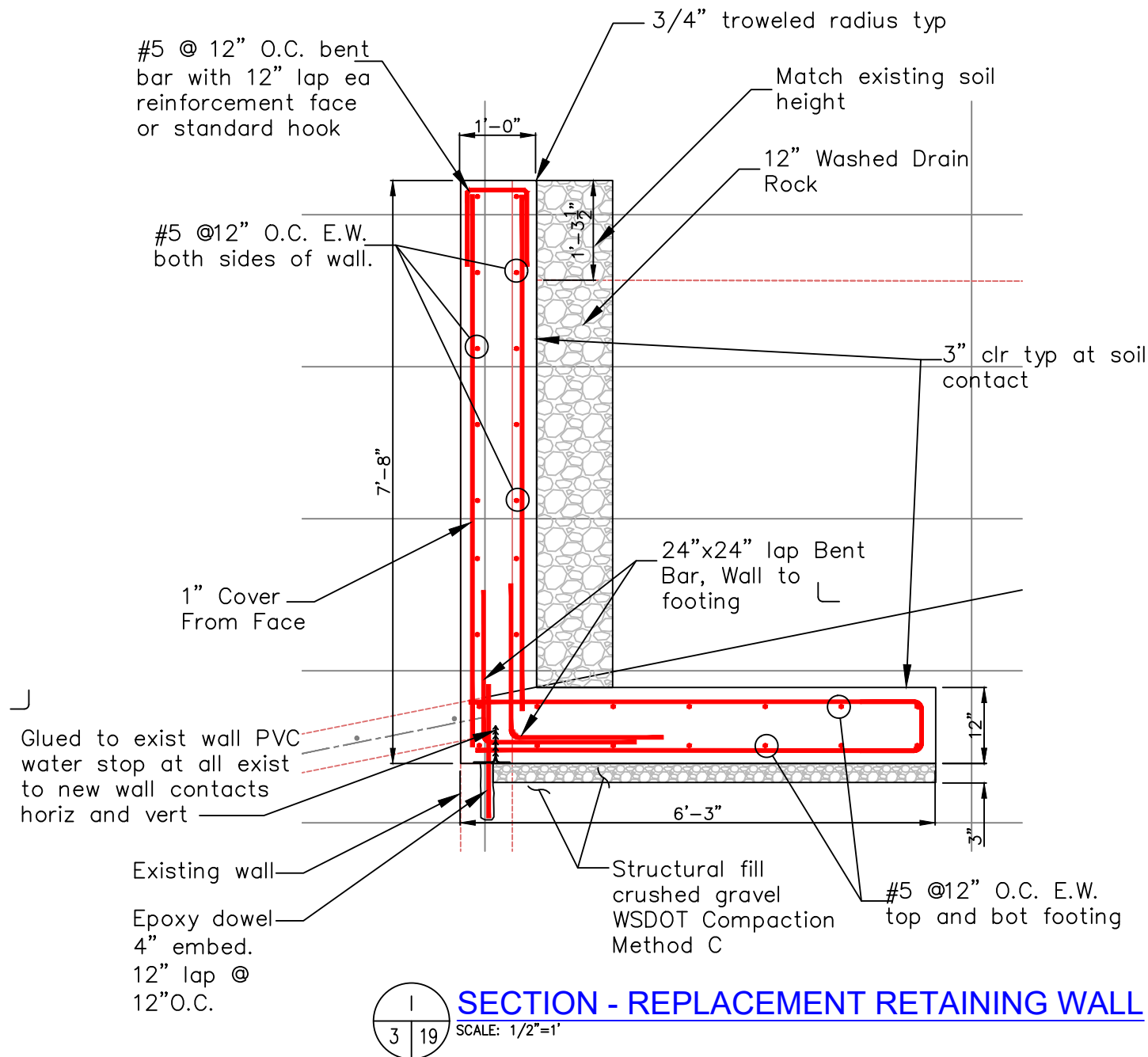


12/1/2017

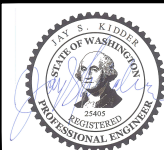
REVISIONS					DESCRIPTION
REV	DATE	BY	APPD		
SCALE VERIFICATION					IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
BAR IS ONE INCH ON ORIGINAL DRAWING.					0 1"

DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

Concrete Panel Details



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION
SCALE VERIFICATION				
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				

DESIGNED BY:
WATERFALL ENGINEERING

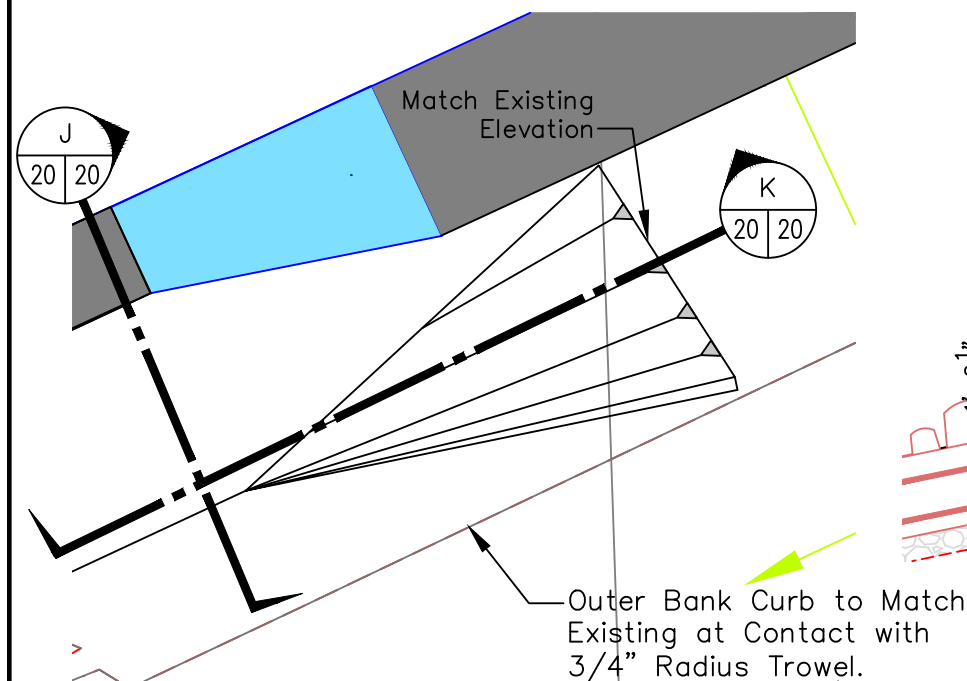
CHINOOK ENGINEERING

DRAWN BY:
DIMENSIONS DRAFTING & DESIGN

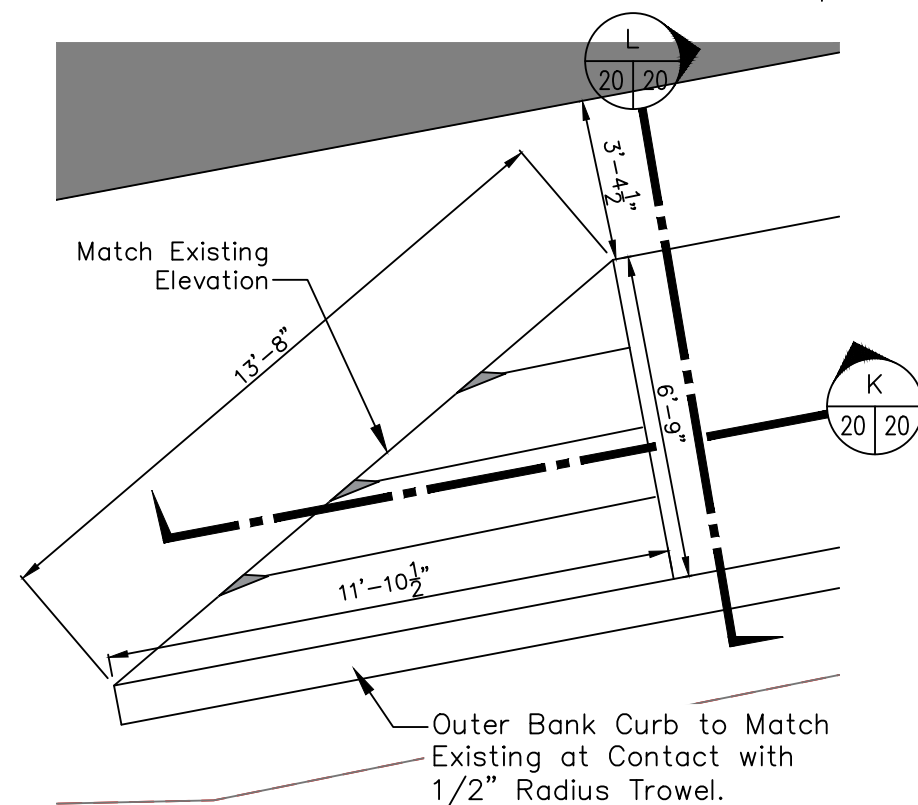
DATE:
12/01/2017

Details

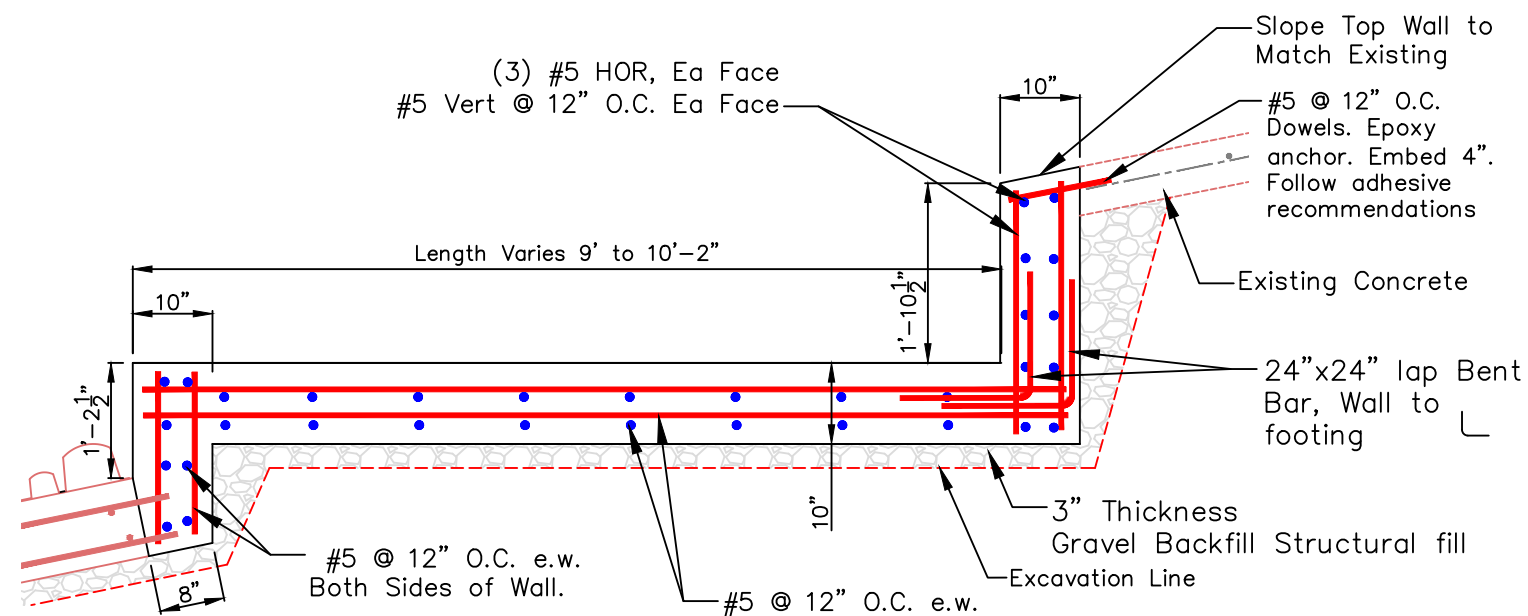
19 20
SHEET OF



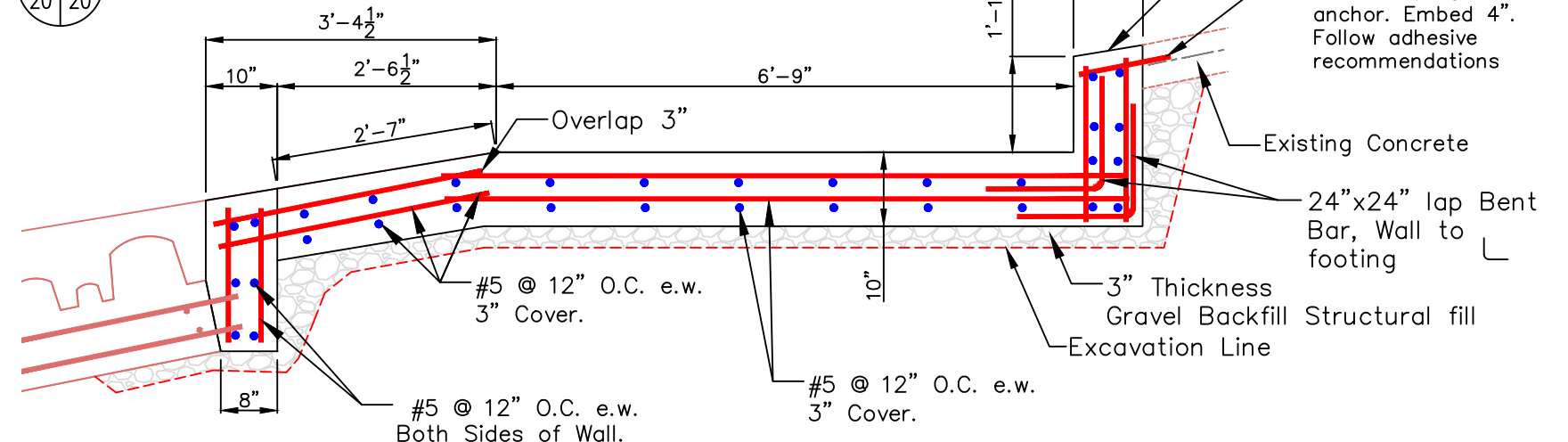
OVERBANK PLAN VIEW TYPE 1
SCALE: 1"=4'
OTIS & MERRIAM ST



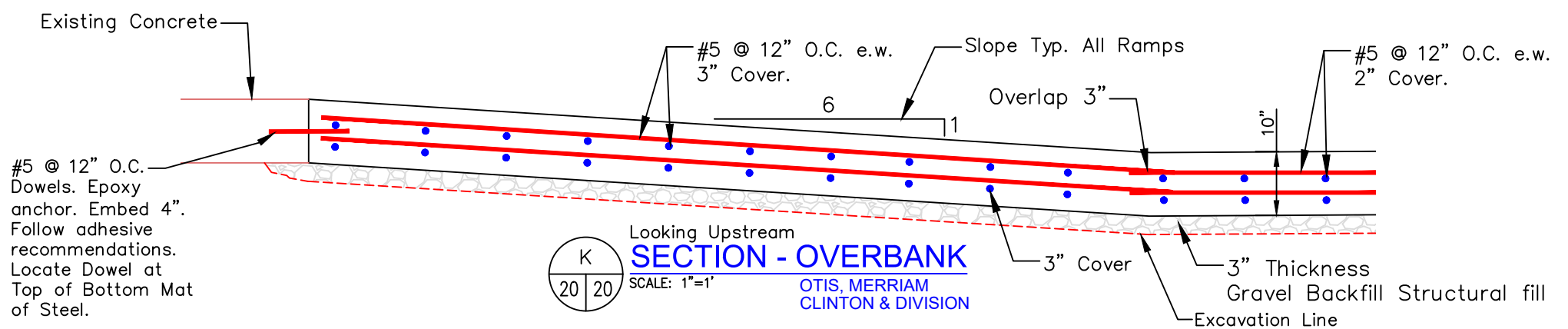
OVERBANK PLAN VIEW TYPE 2
SCALE: 1"=2'
CLINTON & DIVISION



Looking Upstream
SECTION - OVERBANK
SCALE: 1"=1'



Looking Upstream
SECTION - OVERBANK
SCALE: 1"=1'

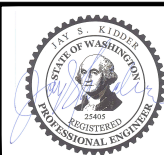


Looking Upstream
SECTION - OVERBANK
SCALE: 1"=1'
OTIS, MERRIAM
CLINTON & DIVISION

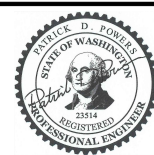
- Note:
1. All gravel backfill and new construction backfill shall be compacted as structural fill as per WSDOT 2-03.3(14)C Method C.
 2. All embankment compactions are called out as structural fill.
 3. See specifications for details of material and WSDOT M41-10
 4. Concrete cover as follows:
Ground Contact 3"
Walls and Curbs 2"
 5. All lap splices shall be Class A. Min 2'-0" for #5 Bar and Class 4000 Concrete.
 6. All Final Dimensions to be Staked in Field by Engineer.



Mill Creek Fish Passage Park Street to Roosevelt Street



12/1/2017



12/1/2017

REVISIONS					DESCRIPTION
REV	DATE	BY	APPD		

SCALE VERIFICATION

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGNED BY:
WATERFALL ENGINEERING
CHINOOK ENGINEERING
DRAWN BY:
DIMENSIONS DRAFTING & DESIGN
DATE:
12/01/2017

Details

20 20
SHEET OF