

# CONSTRUCTION DOCUMENT FOR:

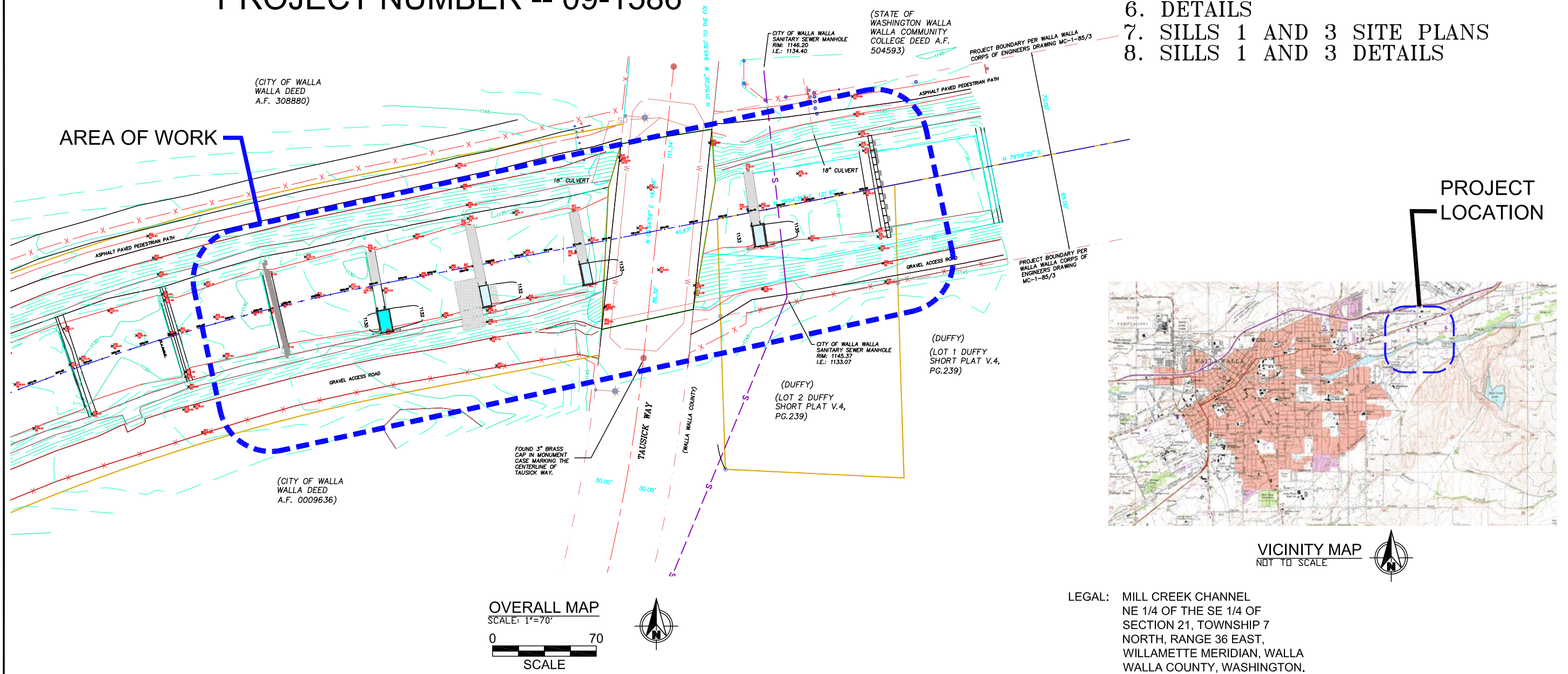
# MILL CREEK

# TAUSICK WAY FISH PASSAGE

PROJECT NUMBER -- 09-1586

## DRAWING INDEX:

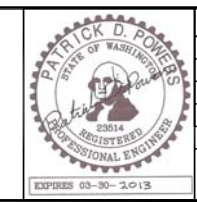
1. COVER SHEET
2. LEGEND AND NOTES
3. SITE PLAN
4. PROFILE AND SECTIONS
5. SECTIONS
6. DETAILS
7. SILLS 1 AND 3 SITE PLANS
8. SILLS 1 AND 3 DETAILS



LEGAL: MILL CREEK CHANNEL  
 NE 1/4 OF THE SE 1/4 OF  
 SECTION 21, TOWNSHIP 7  
 NORTH, RANGE 36 EAST,  
 WILLAMETTE MERIDIAN, WALLA  
 WALLA COUNTY, WASHINGTON.



## TAUSICK WAY FISH PASSAGE



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

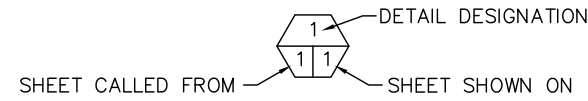
SCALE VERIFICATION: BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

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 CHINOOK ENGINEERING  
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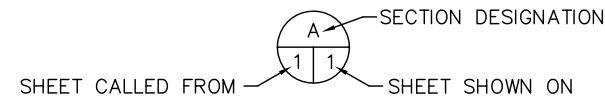
COVER SHEET

1 8  
 SHEET OF

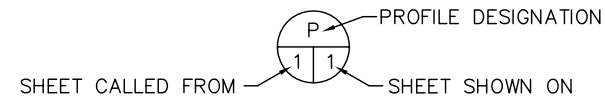
## SHEET SYMBOLS



**DETAIL CALLOUT**

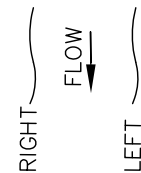


**SECTION CALLOUT**



**PROFILE CALLOUT**

References to Right and Left as viewed downstream



### Construction Notes:

- All work below the OWH must be isolated from the flowing water of Mill Creek.
- Fish must be removed from the construction area and any sediment laden water pumped to an upland site for infiltration into the ground or into a approved construction filter bag before returning to Mill Creek.
- All groundwater in the work area must be a minimum of 12 inches below any fresh concrete until the 24 hours after the concrete is poured.

## LINETYPES

WATER MAIN	
FENCE	
GAS LINE	
STORM DRAIN	
SAN SEWER	
OVERHEAD POWER	
OVERHEAD TELEPHONE	
ORDINARY HIGH WATER	
UNDERGROUND TELEPHONE	
UNDERGROUND POWER	
TRACKS	
EXISTING THALWEG	

### Survey Notes:

BEARINGS ARE BASED ON THE WASHINGTON COORDINATE SYSTEM SOUTH ZONE. THE CONVERGENCE ANGLE IS 01°36'36".

THE VERTICAL DATUM IS NAVD 88 ORTHOMETRIC HEIGHTS DETERMINED BY GPS OBSERVATIONS.

STATIONING IN REFERENCE TO 1984 COPRS DRAWINGS. STATION 6+00 UPSTREAM OF GOSE STREET. STATION AT CENTERLINE TAUSICK WAY 291+74. STATION AT UPSTREAM END OF CONCRETE FLUME 216+91.

BENCH MARK COORDINATES			
POINT #	EASTING	NORTHING	ELEV
BM1	2202438.4724	278674.1086	1138.65
BM2	2202721.7714	278733.5432	1146.84
BM3	2202829.3056	278755.4794	1145.65

## ABBREVIATIONS

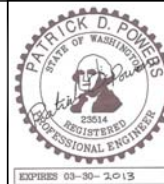
'	- INCHES	MISC.	- MISCELLANEOUS
,	- FEET	MPH	- MILES PER HOUR
APPROX.	- APPROXIMATELY	O.C.	- ON CENTER
B&B	- BALLED AND BURLAPPED	O.D.	- OUTSIDE DIAMETER
BM	- BENCH MARK	OHW	- ORDINARY HIGH WATER
BOT	- BOTTOM	PK	- PARKER-KALON
CAL.	- CALIPER	R.O.W.	- RIGHT OF WAY
C	- CENTERLINE	REQ'D	- REQUIRED
CFS	- CUBIC FEET PER SECOND	SEC.	- SECTION
CLR.	- CLEARANCE	S.F.	- SQUARE FEET
CMP	- CORRUGATED METAL PIPE	SHT.	- SHEET
CONC.	- CONCRETE	SPEC'S.	- PROJECT SPECIFICATIONS
CTR	- CENTER	STA.	- STATION
DIA.	- DIAMETER	SS	- STAINLESS STEEL
ELEV.	- ELEVATION	TEMP.	- TEMPORARY
EQ.	- EQUAL	TOW	- TOP OF WALL
FTG.	- FOOTING	TYP.	- TYPICAL
HDPE	- HIGH DENSITY POLYETHYLENE	W.S.	- WATER SURFACE
HT.	- HEIGHT	WSDOT	- WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
GAL.	- GALLON	WSEL	- WATER SURFACE ELEVATION
I.D.	- INSIDE DIAMETER		
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		

## LEGEND

	EXISTING CALLOUT		
	NEW CALLOUT		CONCRETE
	SURVEY POINT		FILL
	EXISTING TREES TO REMAIN		ROCK/GRAVEL
	PROJECT BENCH MARK		UNDISTURBED GRADE
	BORING LOCATIONS		WETLAND DELINEATION
	SANDBAGS		DEMO
	NOTE CALLOUT		ELEVATION MARKER
	STATION CALLOUT		TREE TO BE REMOVED
	PHOTO CALLOUT		TREE TO REMAIN



# TAUSICK WAY FISH PASSAGE



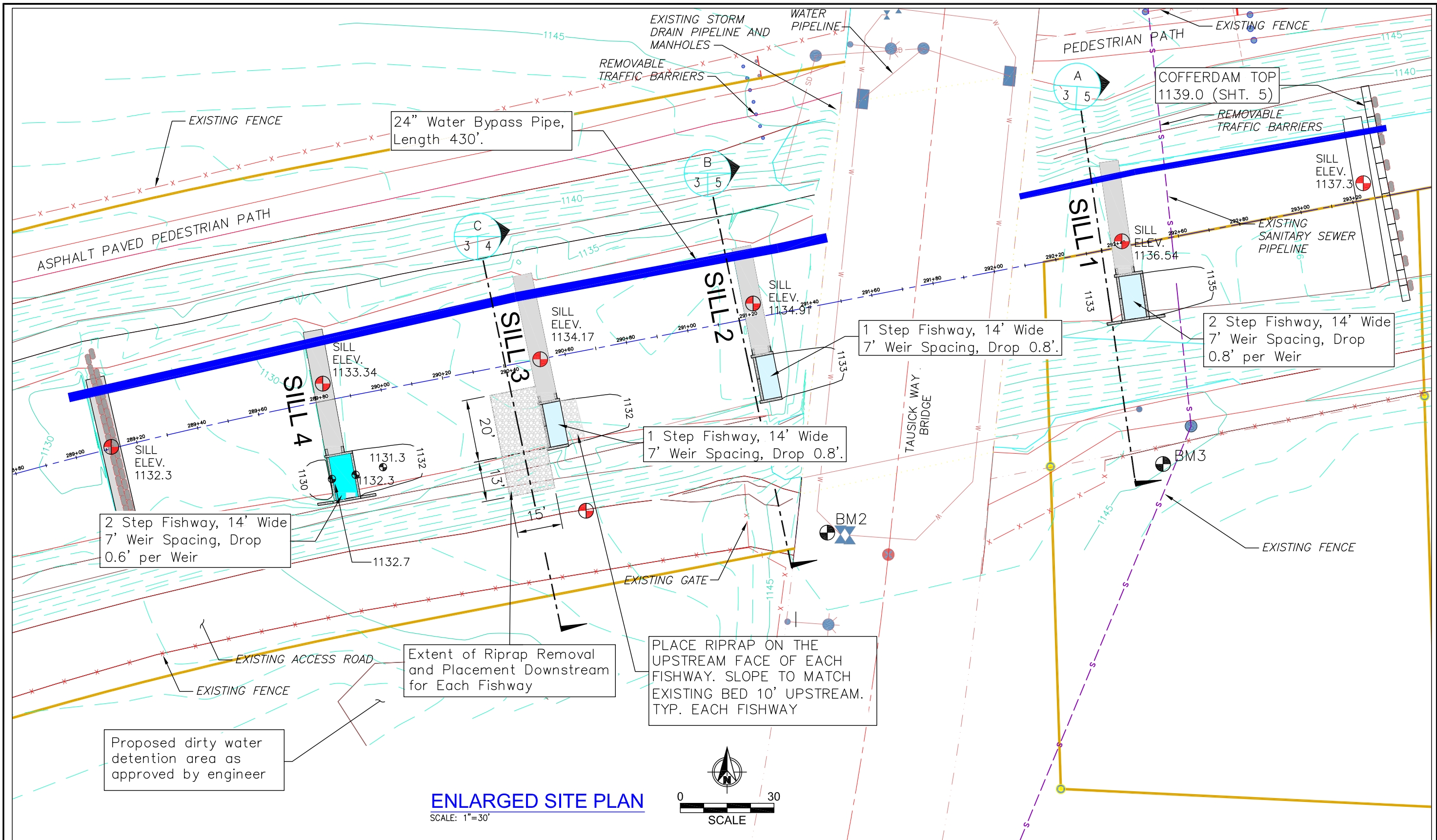
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REV	DATE	BY	APPD	DESCRIPTION

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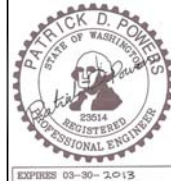
DATE: 6/17/11

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**LEGEND AND NOTES**



# TAUSICK WAY FISH PASSAGE



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SCALE VERIFICATION

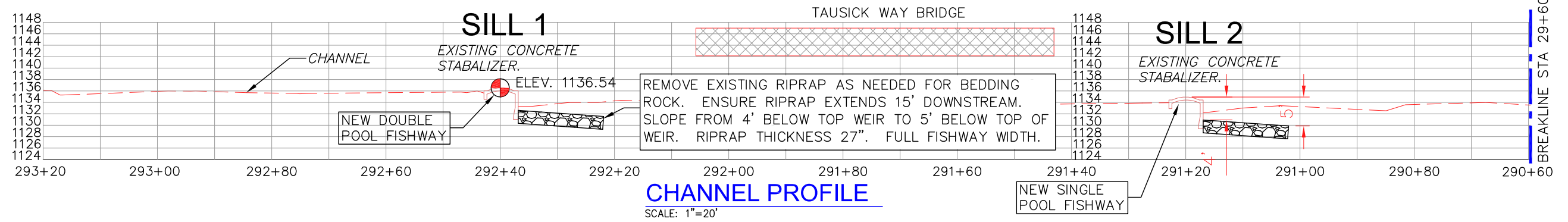
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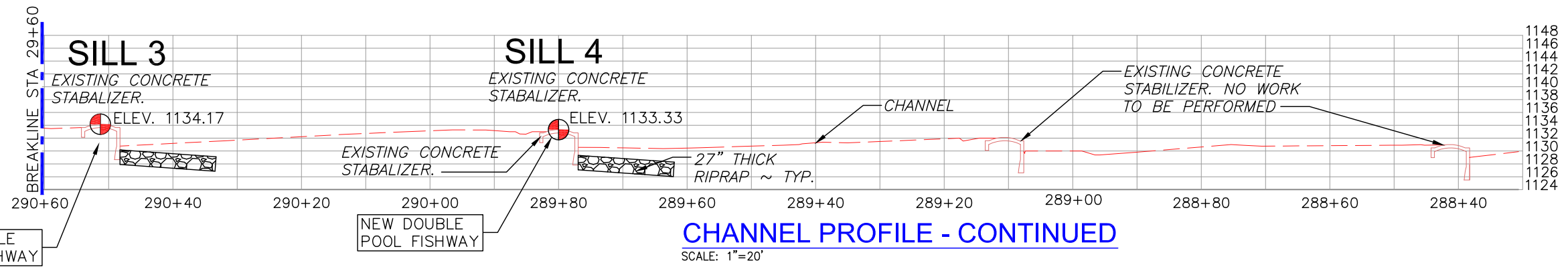
DESIGNED BY:  
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DATE:  
6/17/11

SITE PLAN

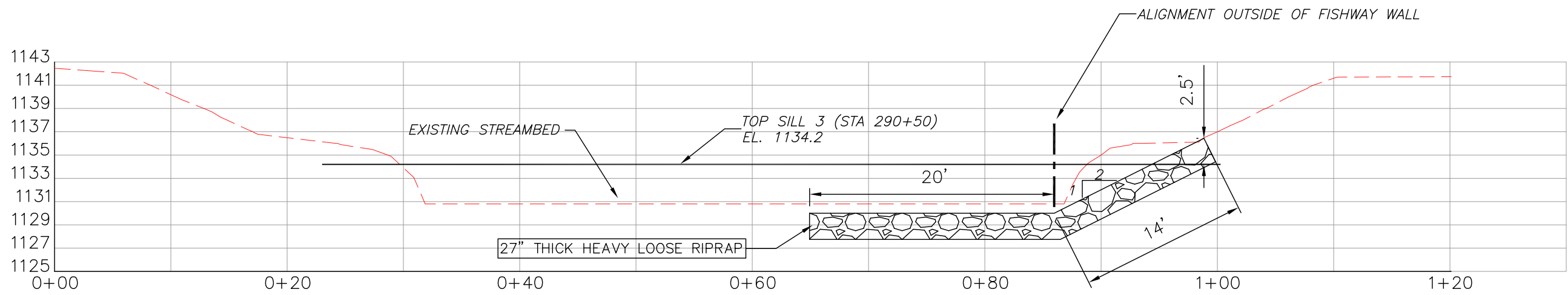
3 8  
SHEET OF



**CHANNEL PROFILE**  
SCALE: 1"=20'



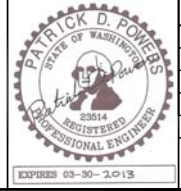
**CHANNEL PROFILE - CONTINUED**  
SCALE: 1"=20'



**SILL 3 - DOWNSTREAM SECTION - STA 290+50**  
SCALE: 1"=10'



**TAUSICK WAY  
FISH PASSAGE**

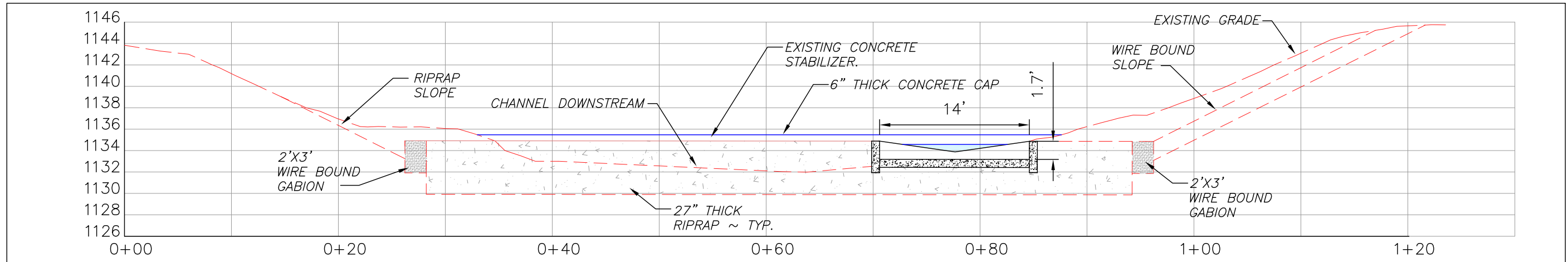


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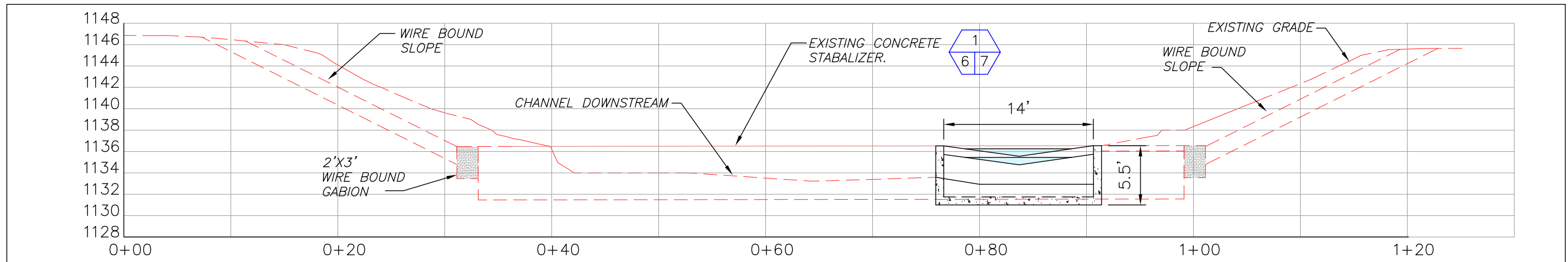
SCALE VERIFICATION: 1" = 10'

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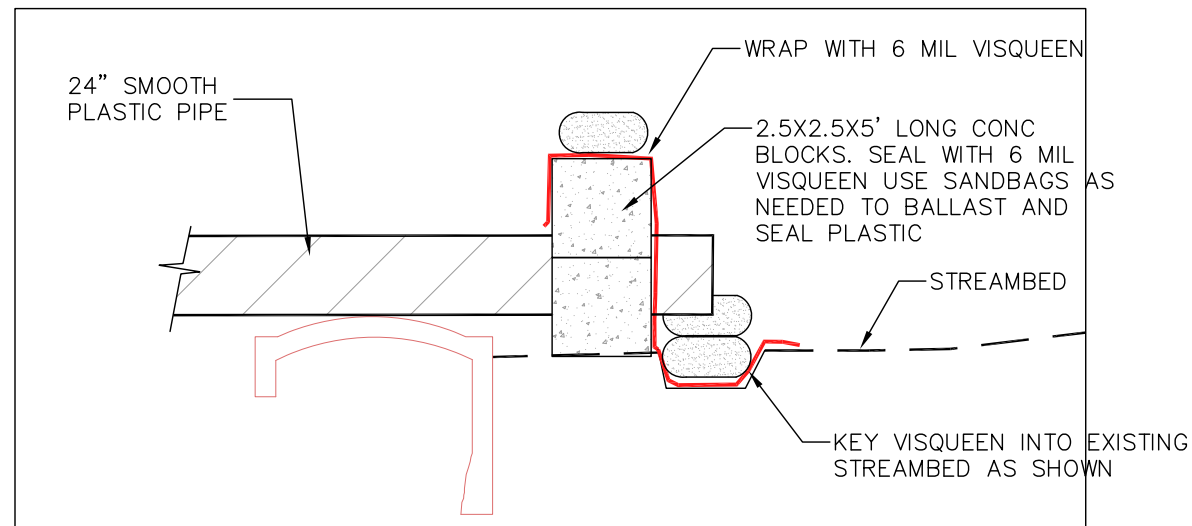
**PROFILE AND SECTIONS**



B **SILL 2 - SECTION STA 291+20**  
 SCALE: 1"=10'



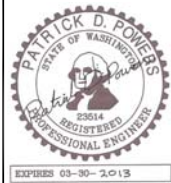
A **SILL 1 - SECTION STA 292+40**  
 SCALE: 1"=10'



**COFFERDAM DETAIL**  
NOT TO SCALE



# TAUSICK WAY FISH PASSAGE



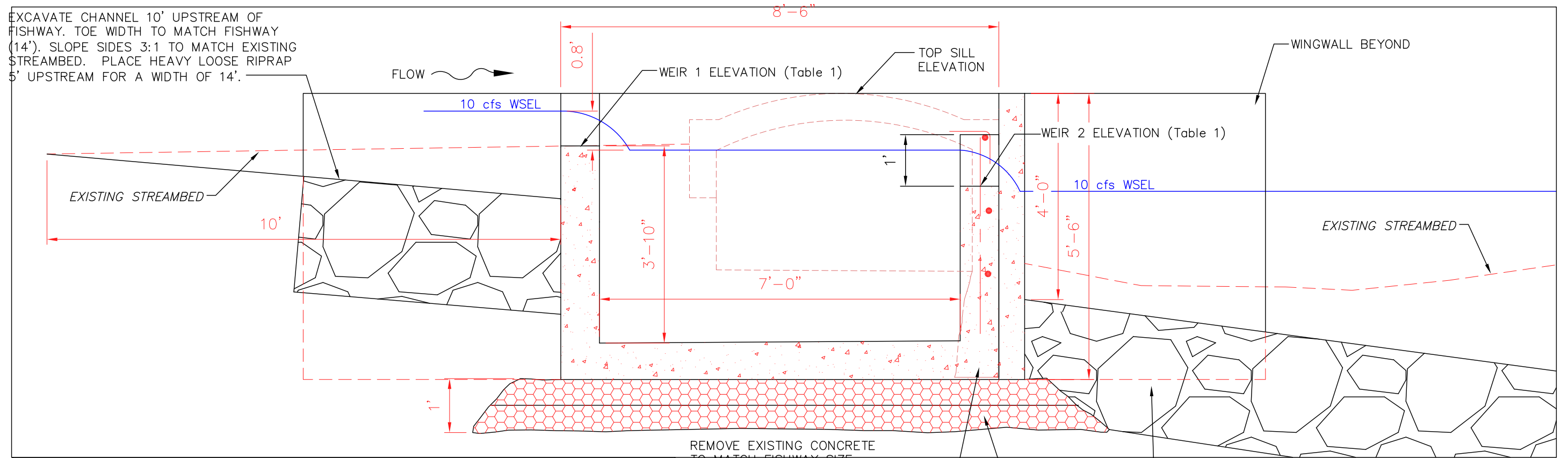
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**REVISED SECTIONS**

EXCAVATE CHANNEL 10' UPSTREAM OF FISHWAY. TOE WIDTH TO MATCH FISHWAY (14'). SLOPE SIDES 3:1 TO MATCH EXISTING STREAMBED. PLACE HEAVY LOOSE RIPRAP 5' UPSTREAM FOR A WIDTH OF 14'.



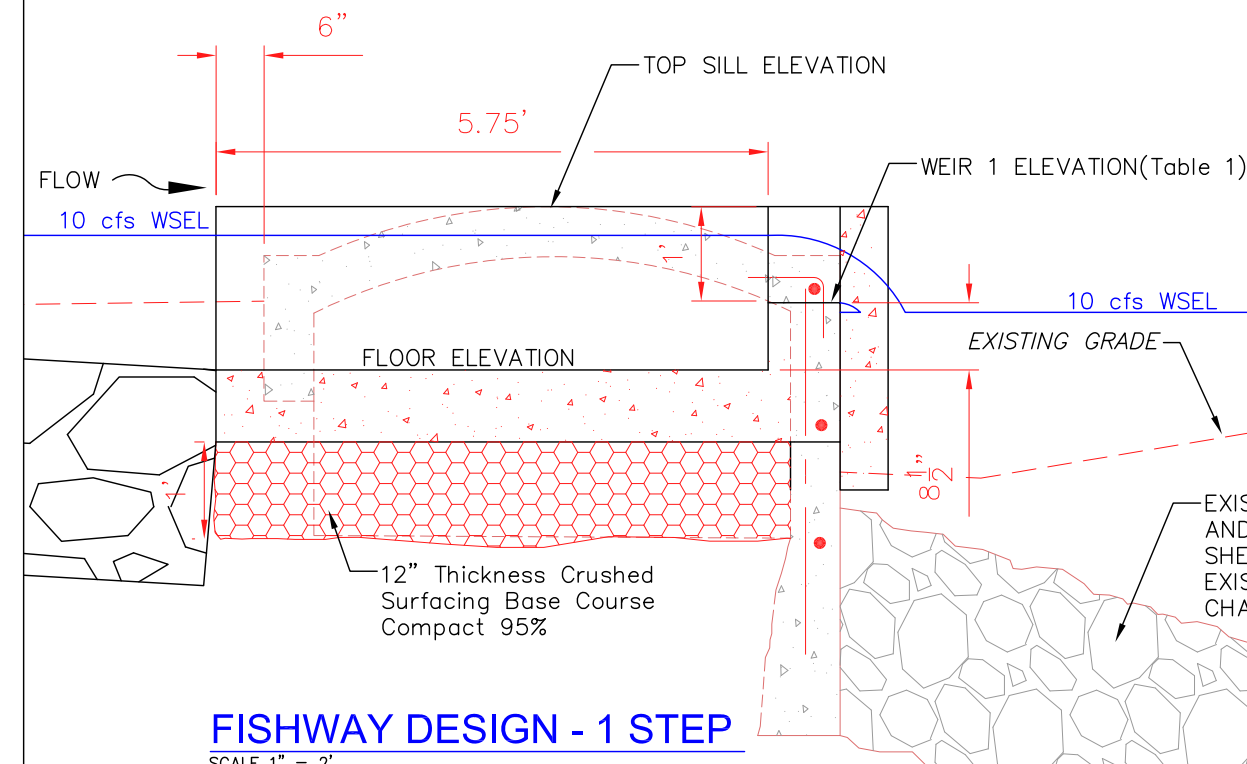
REMOVE EXISTING CONCRETE TO MATCH FISHWAY SIZE AND CAST AGAINST BREAK FOR SEAL

**FISHWAY DESIGN - 2 STEP**

SCALE 1" = 2'

REMOVE EXISTING RIPRAP AS NEEDED FOR BEDDING ROCK. ENSURE RIPRAP EXTENDS 15' DOWNSTREAM. SLOPE FROM 4' BELOW TOP WEIR TO 5' BELOW TOP OF WEIR. RIPRAP THICKNESS 27". FULL FISHWAY WIDTH.

12" Thickness Crushed Surfacing Base Course Compact 95%



**FISHWAY DESIGN - 1 STEP**

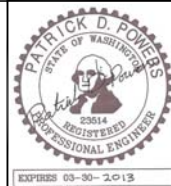
SCALE 1" = 2'

Table 1: Fishway Weir Elevations:

SILL NO.	STA	Sill Elev	Weir1 Elev	Weir 2 Elev
	29320	1137.4	NA	NA
1	29241	1136.6	1135.6	1134.8
2	29123	1134.9	1133.9	NA
3	29053	1134.2	1133.2	NA
4	28981	1133.3	1132.3	1131.6
	28911	1132.2	NA	NA



**TAUSICK WAY FISH PASSAGE**



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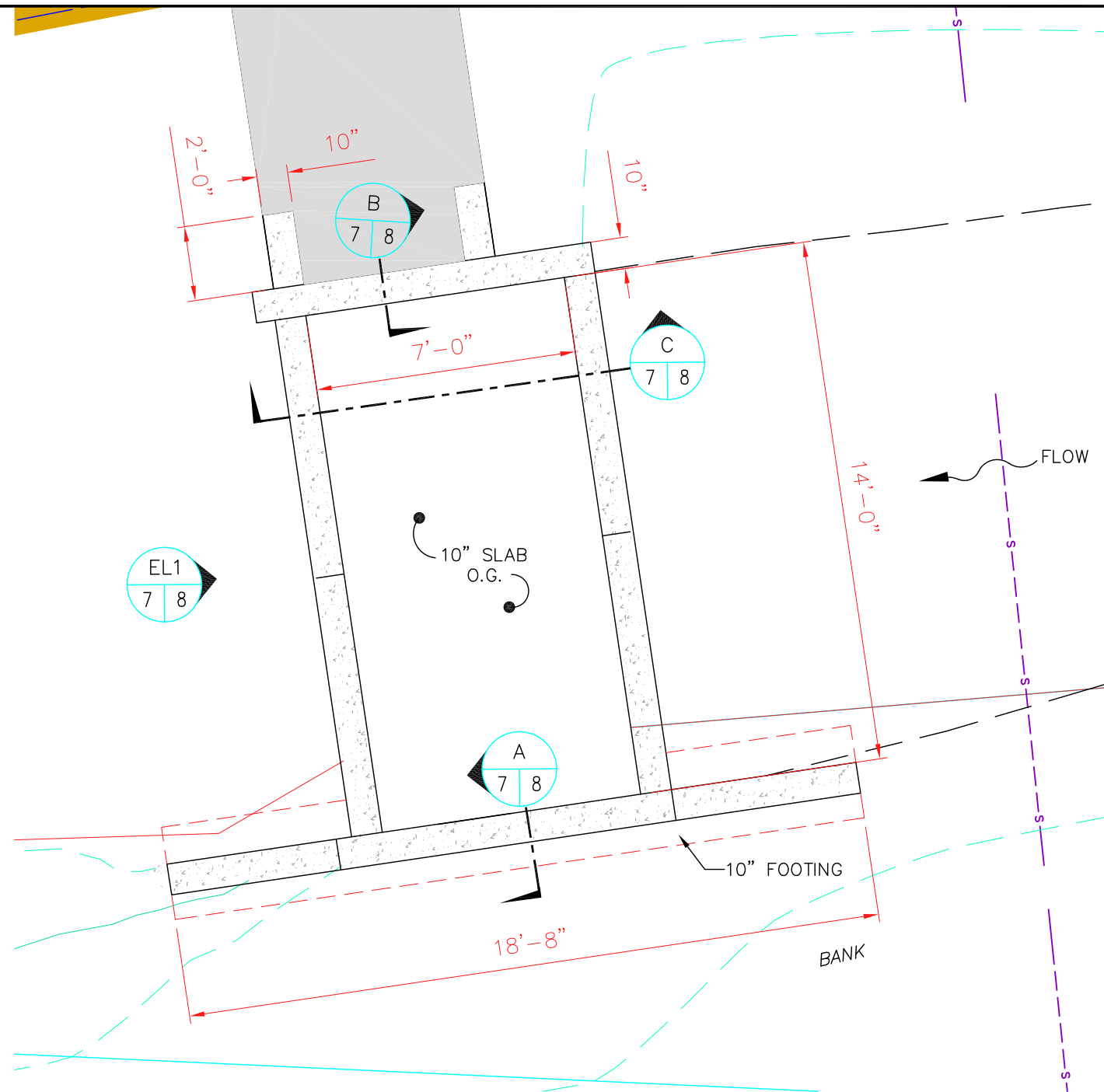
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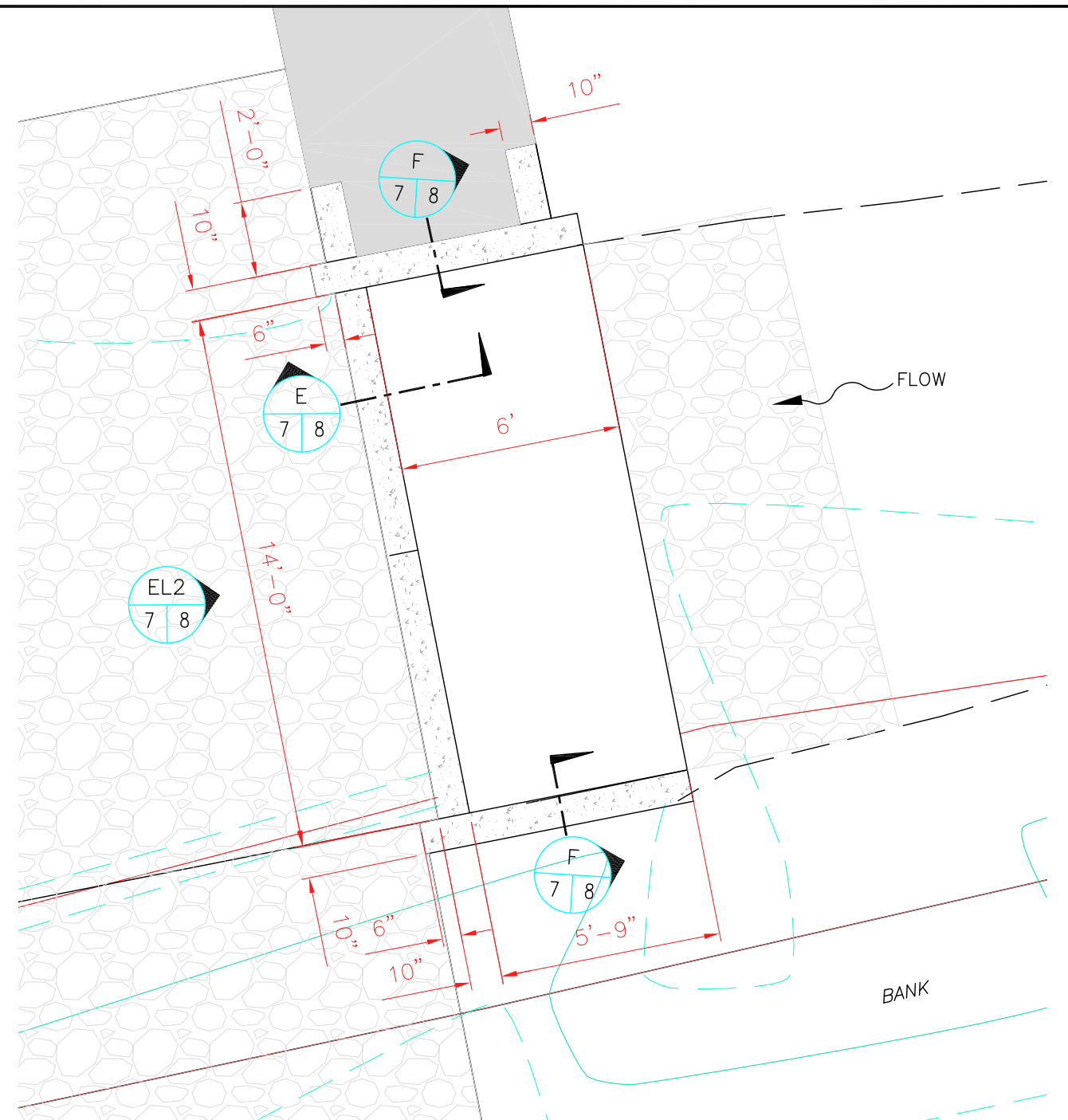
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DATE: 6/17/11

DETAILS

6 8  
SHEET OF



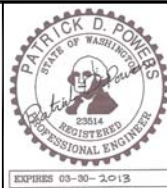
**SITE PLAN SILL 1 - 2 STEP FISHWAY**  
SCALE: 1"=4'



**SITE PLAN SILL 3 - 1 STEP FISHWAY**  
SCALE: 1"=4'



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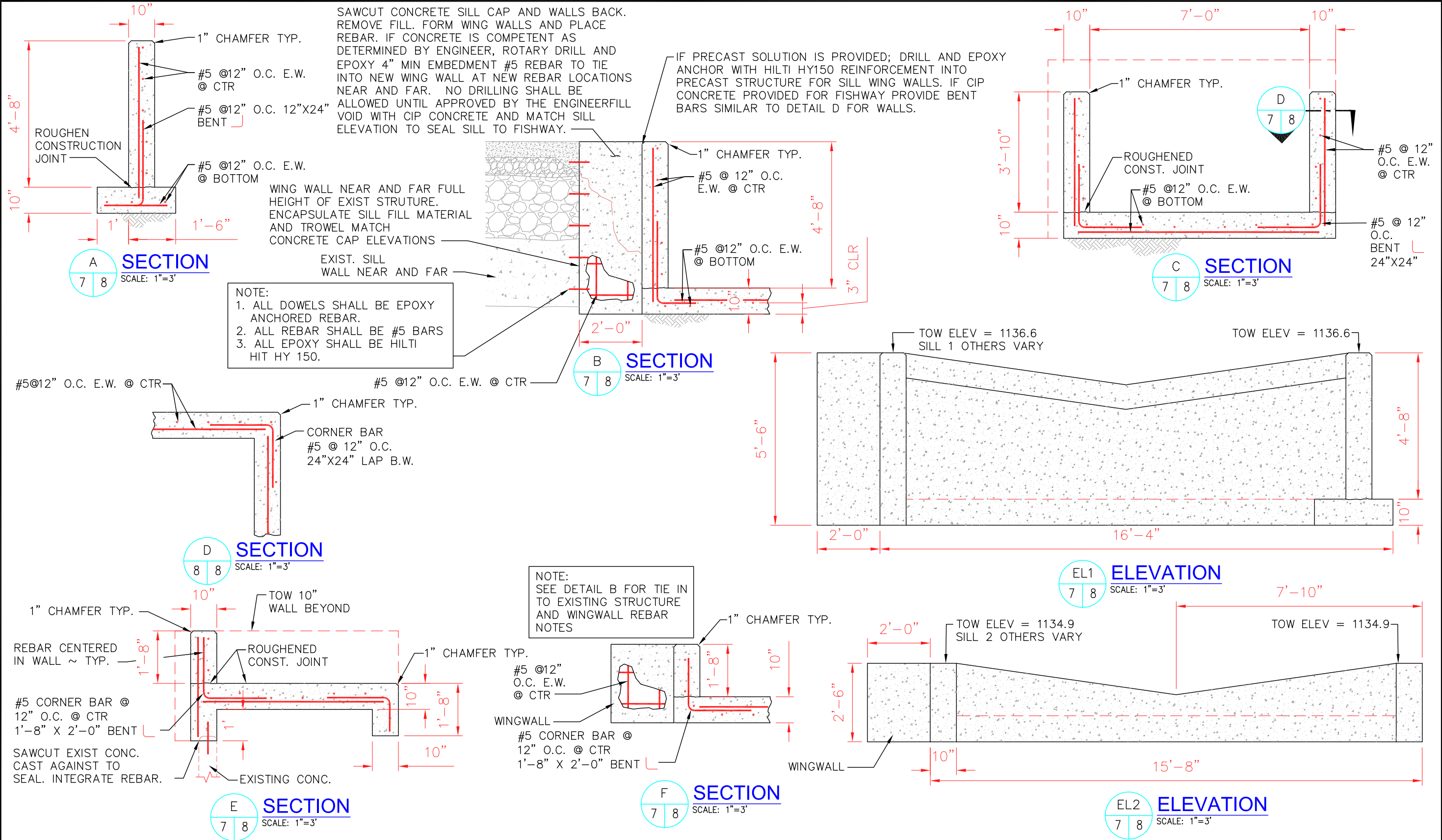
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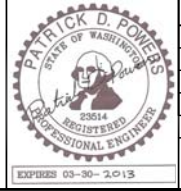
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DATE:  
6/17/11

**SILL 1 AND 3 - SITE PLAN**

**7 8**  
SHEET OF



# TAUSICK WAY FISH PASSAGE



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## SILL 1 AND 3 - DETAILS