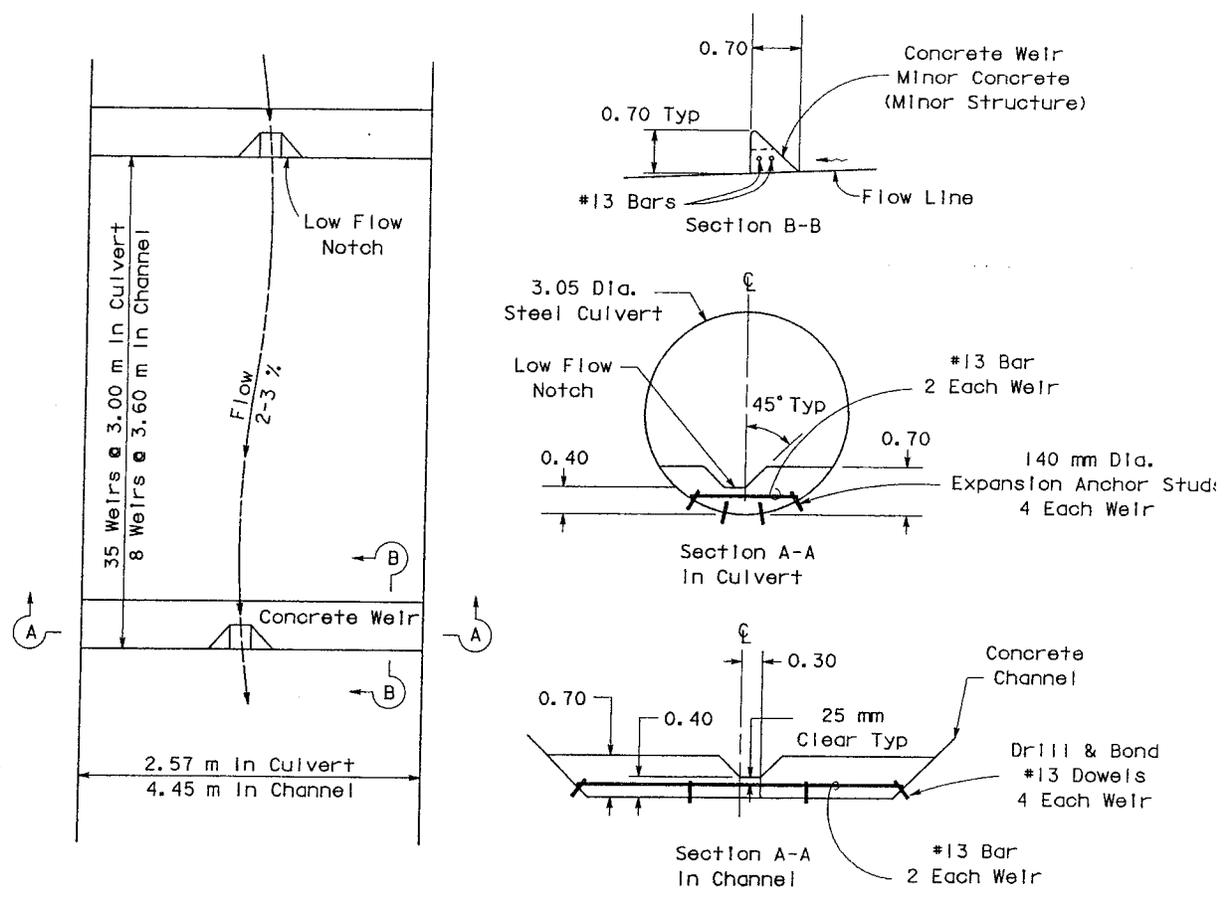


CALCULATED/ DESIGNED BY	REVISOR
CHECKED BY	DATE REVISED
KAD	5-98
DCB	8-98

Note: All Dimensions Are In Meters Unless Otherwise Shown.

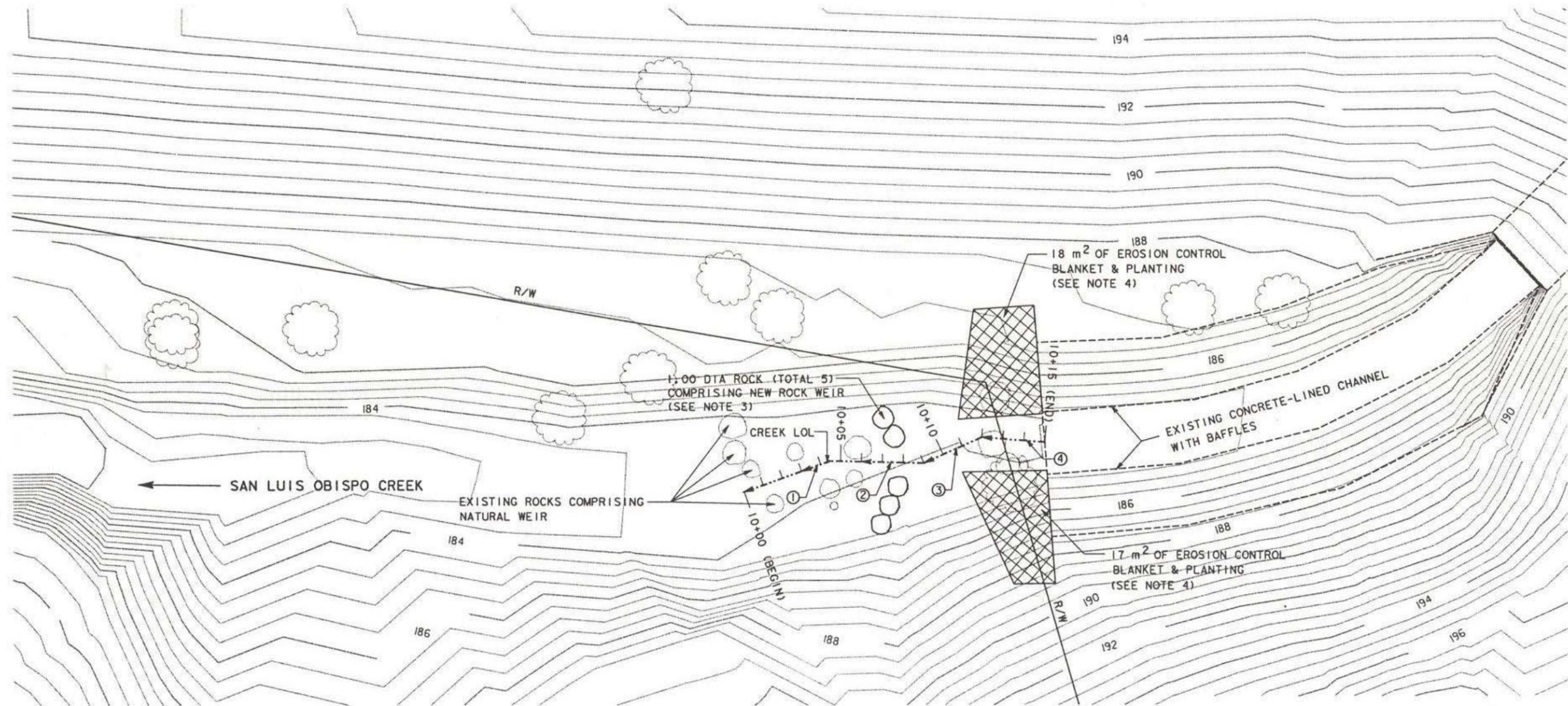


FISH PASSAGE WEIRS

9 (d)

NOTES:

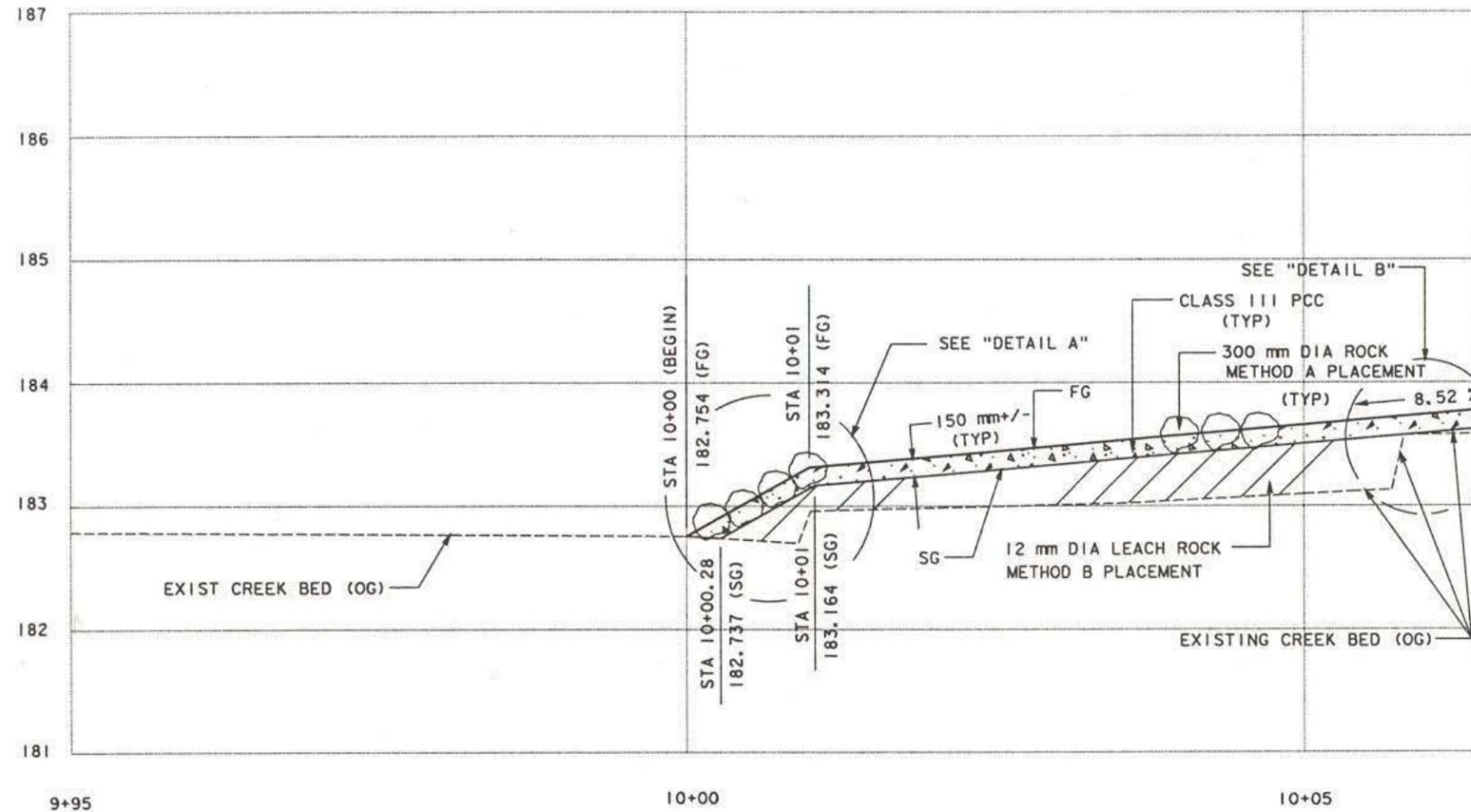
1. FOR COMPLETE RIGHT-OF-WAY DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. EXISTING ROCKS AND TREES TO REMAIN, NO REMOVAL
3. SEE SHEET C-1 FOR ROCK WEIR LAYOUT AND DETAILS
4. SEE SHEET C-2 FOR EROSION CONTROL AND PLANT INFORMATION AND DETAILS



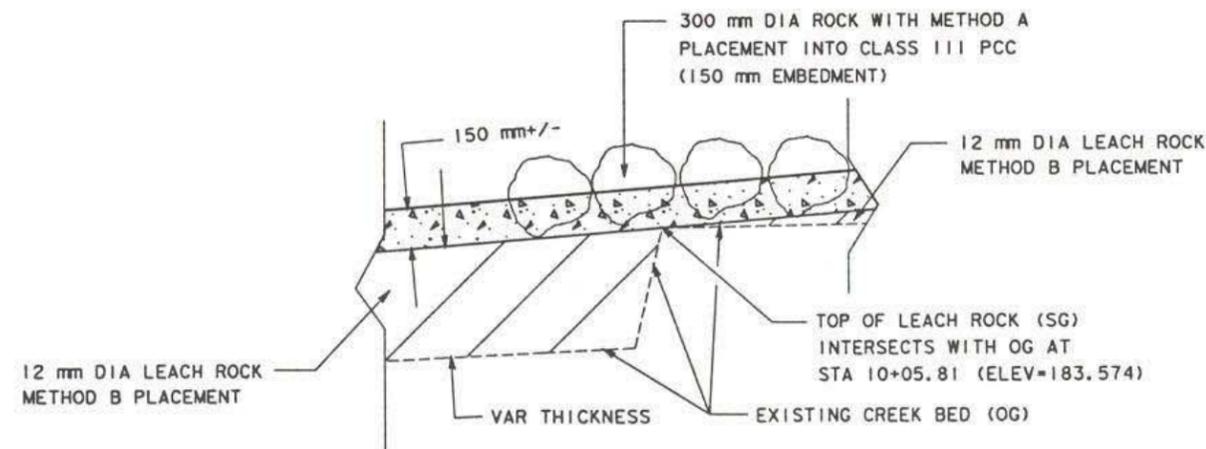
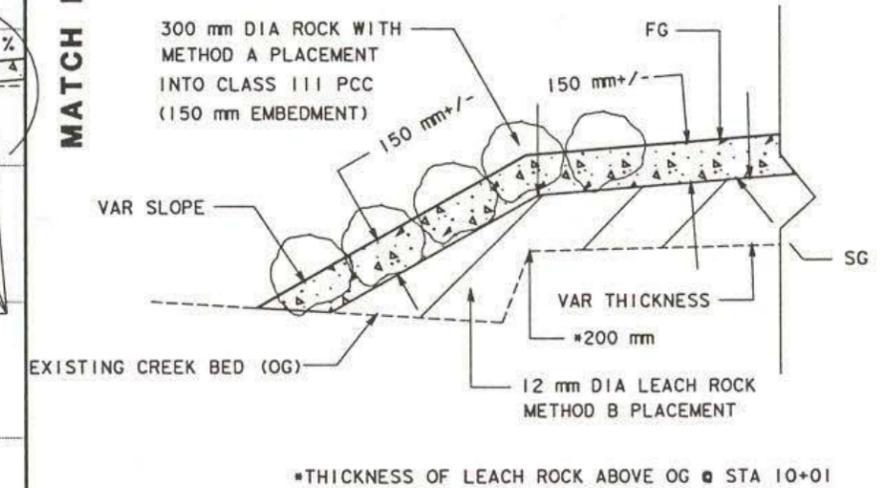
TANGENT DATA		
NUMBER	BEARING	LENGTH
①	N 00° 37' 25.9" E	4.50
②	N 21° 21' 33.4" E	4.50
③	N 04° 16' 53.5" W	3.00
④	N 24° 33' 27.9" E	3.00

ABBREVIATIONS
 FG FINISH GRADE
 SG SUBGRADE
 OG ORIGINAL GROUND

NOTES:
 1. EXISTING ROCKS ARE NOT SHOWN FOR CLARITY
 2. SEE SHEET X-1 FOR ROCK/PCC ORDER OF WORK
 3. ALL ROCK PROVIDED SHALL BE GRANITE



MATCH LINE

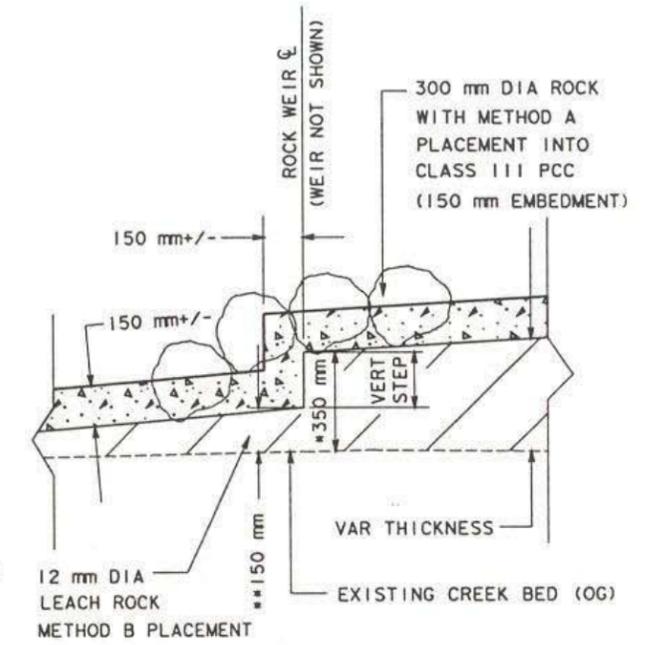
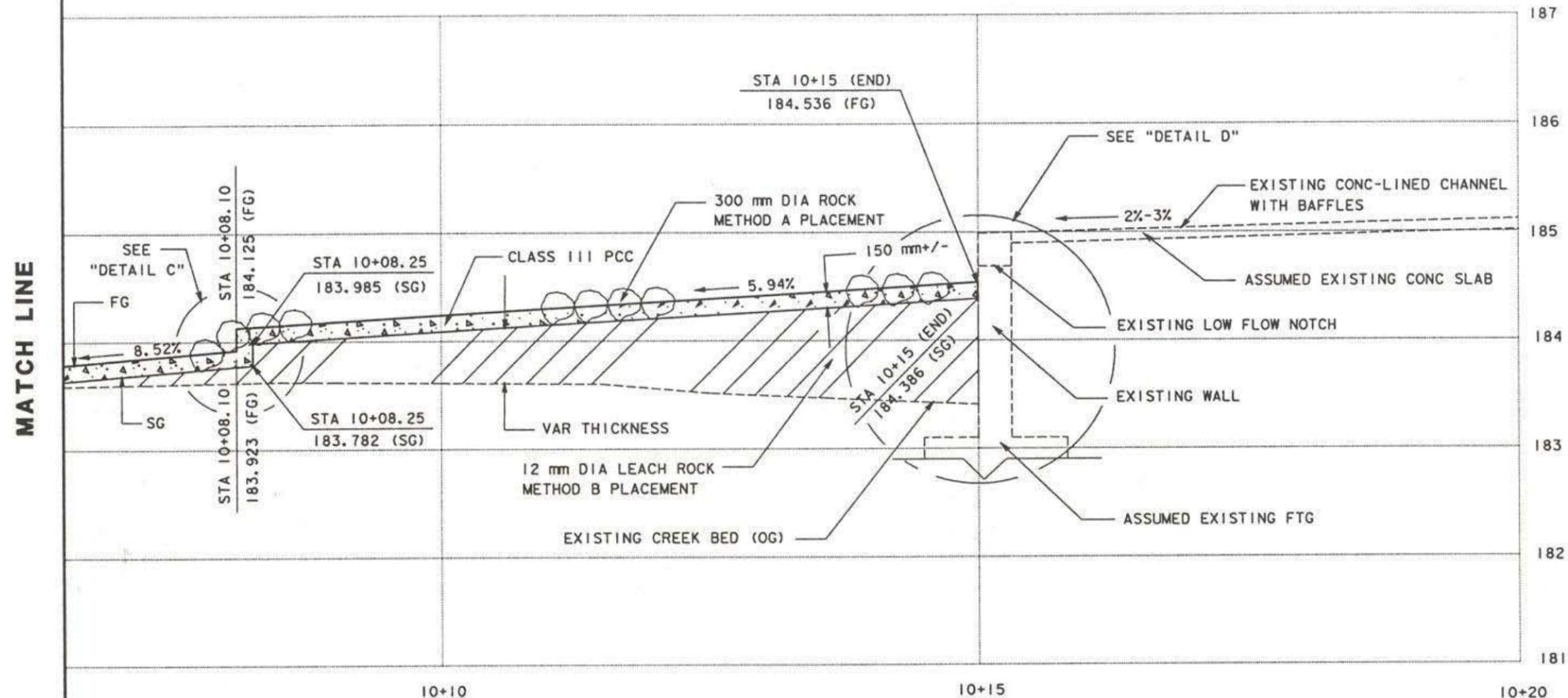


ABBREVIATIONS

FG FINISH GRADE
 SG SUBGRADE
 OG ORIGINAL GROUND

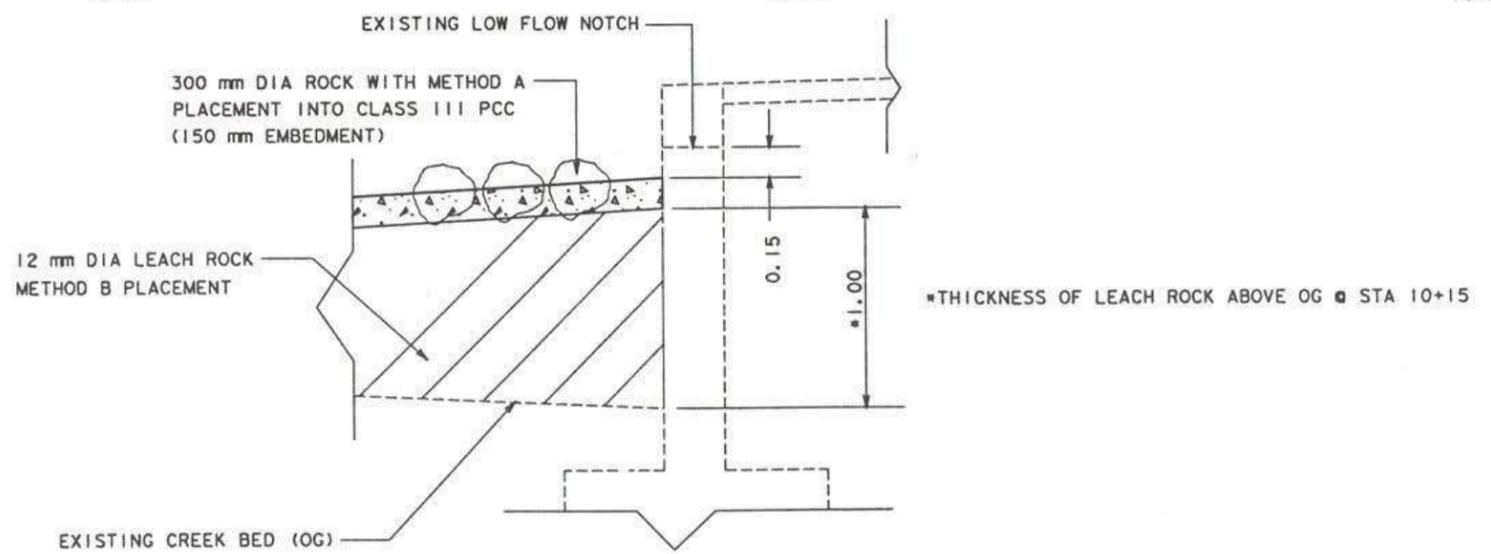
NOTES:

- EXISTING ROCKS ARE NOT SHOWN FOR CLARITY
- ROCK WEIR IS ALSO NOT SHOWN FOR CLARITY
- SEE SHEET X-1 FOR ROCK/PCC ORDER OF WORK
- ALL ROCK PROVIDED SHALL BE GRANITE



*THICKNESS OF LEACH ROCK ABOVE OG @ STA 10+08.25 FOR UPPER PORTION OF VERT STEP
 **THICKNESS OF LEACH ROCK ABOVE OG @ STA 10+08.25 FOR LOWER PORTION OF VERT STEP

DETAIL C
 NO SCALE

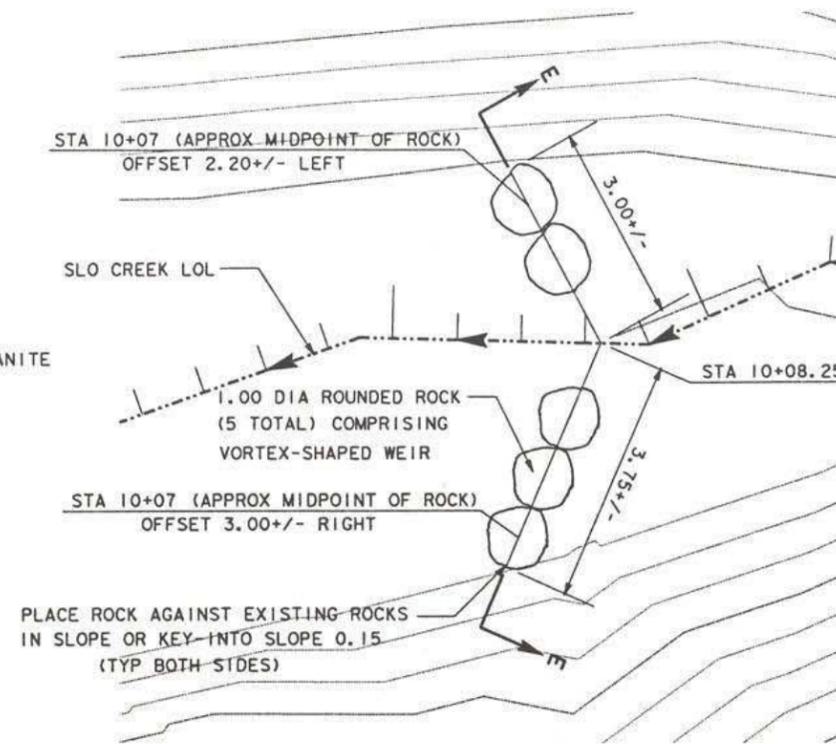


DETAIL D
 NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE

NOTE: ALL ROCK PROVIDED SHALL BE GRANITE

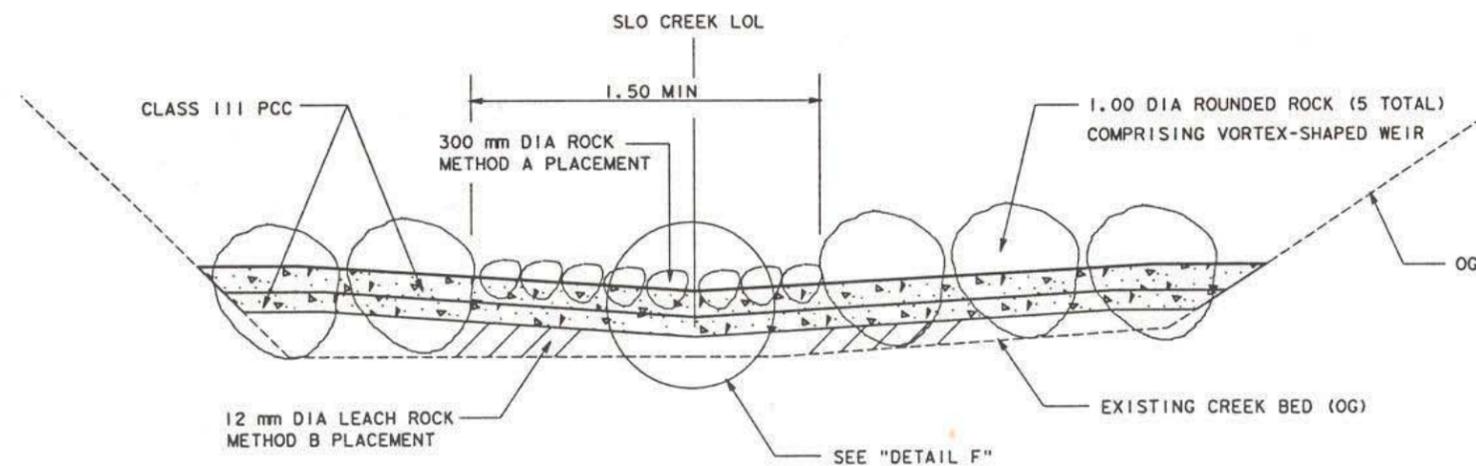


ROCK WEIR
PLAN

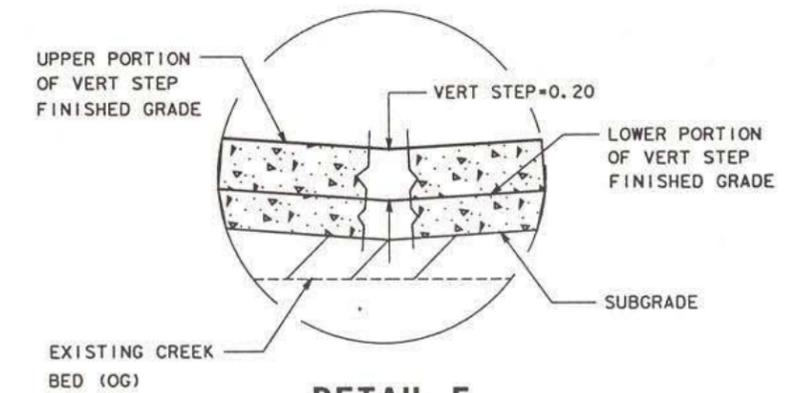
SUMMARY OF QUANTITIES

12 mm DIA LEACH ROCK m ³	300 mm DIA ROCK (ANGULAR) m ³	1.00 DIA ROCK (ROUNDED) EA	CLASS III PCC m ³	*EROSION CONTROL NETTING m ²
40	31	5	16	35

*SEE SHEET C-2 FOR PLANTING QUANTITIES

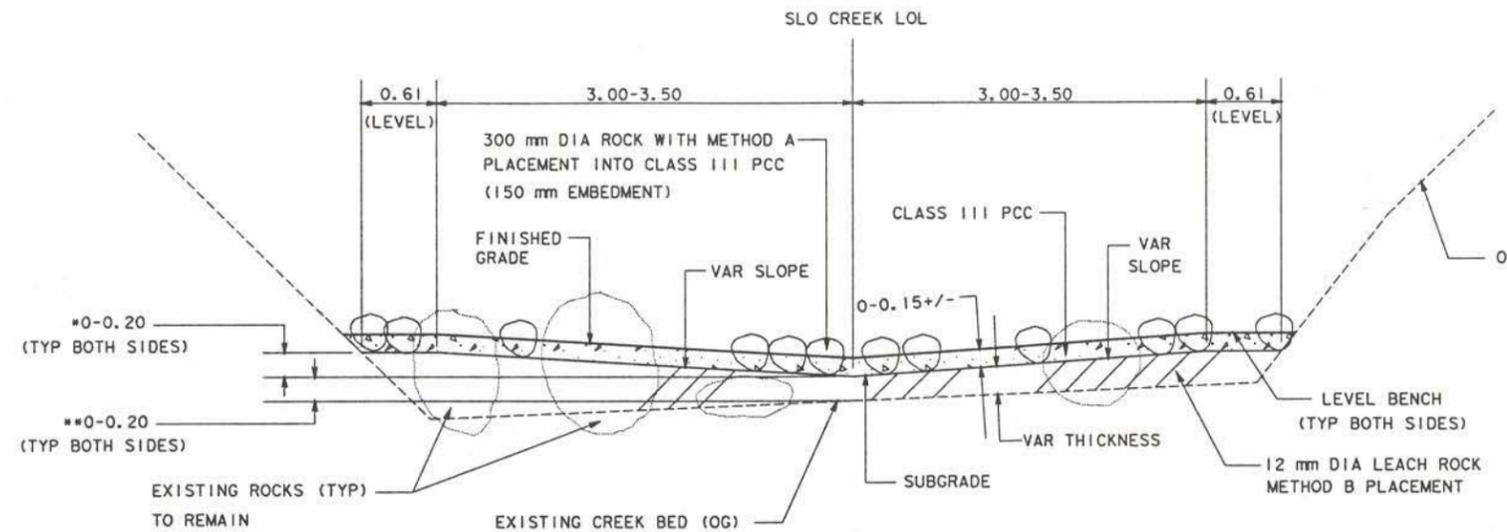


SECTION E-E



DETAIL F

NOTE: SEE SHEET P-2 FOR VERTICAL STEP PROFILE



*MEASURED FROM SUBGRADE AT CREEK LOL
TO SUBGRADE AT LEVEL BENCH

**MEASURED FROM EXISTING CREEK BED (OG)
AT CREEK LOL TO SUBGRADE AT CREEK LOL

SLO CREEK

STA 10+00 (CONFORM) TO STA 10+01

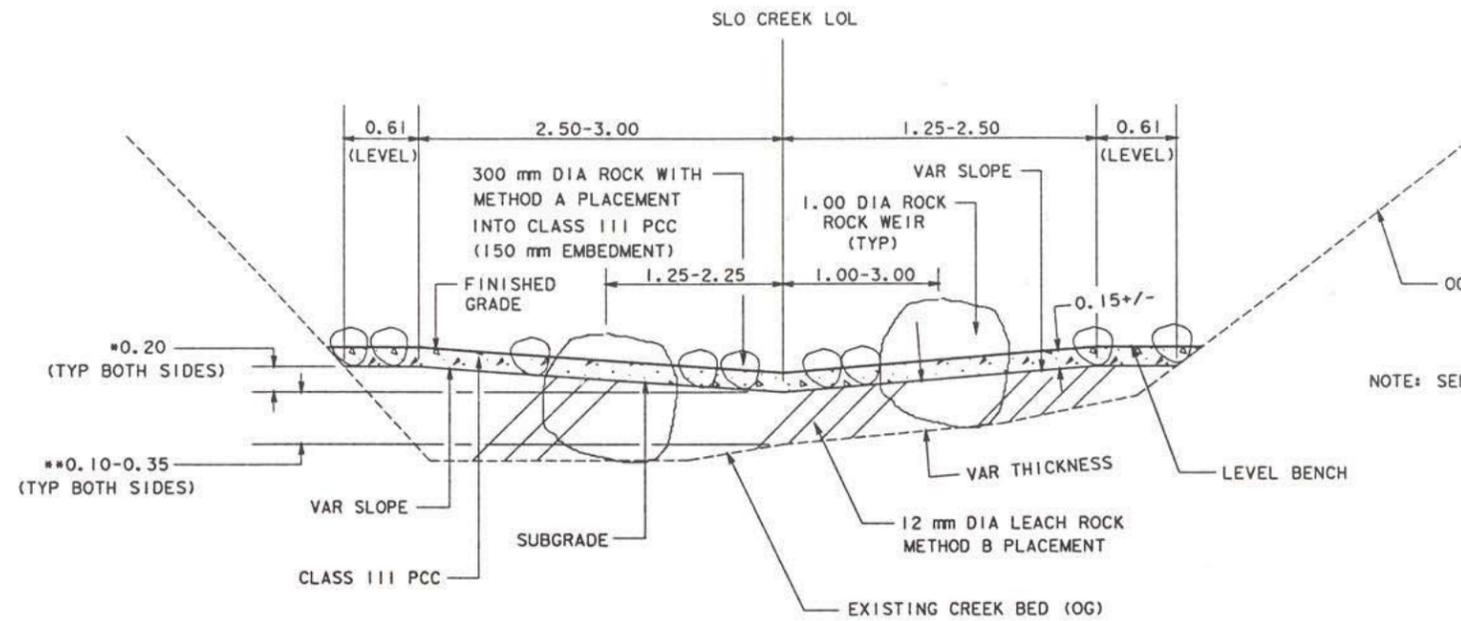
ROCK/PCC ORDER OF WORK

1. CONSTRUCT CREEK BYPASS SYSTEM.
2. INSTALL EROSION CONTROL NETTING, AS DIRECTED ON SHEET C-2, ON CREEK BOTTOM AND ON CREEK SLOPE UP TO A MINIMUM OF 2 METERS MEASURED ON SLOPE. PLACE STAKES IN EROSION CONTROL NETTING ROLL TO HOLD IN PLACE FOR LATER PLACEMENT.
3. PLACE 1.00 DIA ROCK (ROCK WEIR) ON CREEK BOTTOM AS SHOWN ON SHEET C-1.
4. PLACE 12 mm DIA LEACH ROCK (METHOD B PLACEMENT) TO APPROPRIATE DEPTHS AND AT PROPER SLOPES FOR SUBGRADE AS SHOWN ON SHEETS X-1, X-2, P-1, AND P-2.
5. CONSTRUCT WOOD FORMS TO PREPARE FOR CLASS III PCC PLACEMENT.
6. PLACE APPROX. 0.15 THICK CLASS III PCC BEGINNING AT STA 10+00 AND ENDING AT STA 10+07 AS SHOWN ON SHEETS X-1, X-2, P-1, AND P-2. PLACE PCC FROM LOW TO HIGH ELEVATION LONGITUDINALLY AND WITHIN CROSS SECTION. DO NOT SCREED OR PROVIDE FINISH TO CONCRETE.
7. IMMEDIATELY AFTER PLACING PCC, BEGIN METHOD A PLACEMENT OF 300 mm DIA ROCK INTO PCC WITH A 150 mm EMBEDMENT AS SHOWN ON SHEETS X-1, X-2, P-1, AND P-2. PCC MUST BE WET TO ENSURE PROPER EMBEDMENT OF ROCK. PLACE 300 mm DIA ROCK AROUND EXISTING ROCK THAT PROTRUDE THE PCC LAYER.
8. REPEAT STEPS 6 & 7 FOR STA 10+07 TO STA 10+15. COLD JOINTS ARE ACCEPTABLE.
9. AFTER ROCK/PCC WORK IS COMPLETED, CONTINUE PLACING EROSION CONTROL NETTING AND PERFORM PLANTING AS DIRECTED ON SHEET C-2.
10. REMOVE CREEK BYPASS SYSTEM AS DIRECTED BY THE ENGINEER.

CREEK BYPASS SYSTEM GENERAL NOTES

1. THE CREEK BYPASS SYSTEM SHALL CONSIST OF AN UPSTREAM DAM, INTERMEDIATE DAM, DOWNSTREAM DAM, BYPASS CULVERT, AND PUMP(S).
2. THE INTERMEDIATE DAM SHALL BE PLACED DOWNSTREAM OF STA 10+00, THOUGH UPSTREAM OF THE DOWNSTREAM DAM.
3. THE UPSTREAM DAM SHALL BE PLACED UPSTREAM OF STA 10+15.
4. ALL DAMS SHALL BE COMPRISED OF OF A COMBINATION OF LOOSE GRAVEL, GRAVEL BAGS, AND WRAPPED IN VISQUINE AS APPROVED AND DIRECTED BY THE ENGINEER.
5. THE AREA BETWEEN THE INTERMEDIATE AND DOWNSTREM DAMS SHALL BE USED AS A SEDIMENTATION BASIN.
6. ALL GROUNDWATER SHALL BE PUMPED INTO THE SEDIMENTATION BASIN TO ALLOW SEDIMENT TO SETTLE OUT OF THE WATER COLUMN.
7. EXACT LOCATIONS AND SIZES OF DAMS, BYPASS CULVERT, AND PUMPS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

TYPICAL CROSS SECTIONS

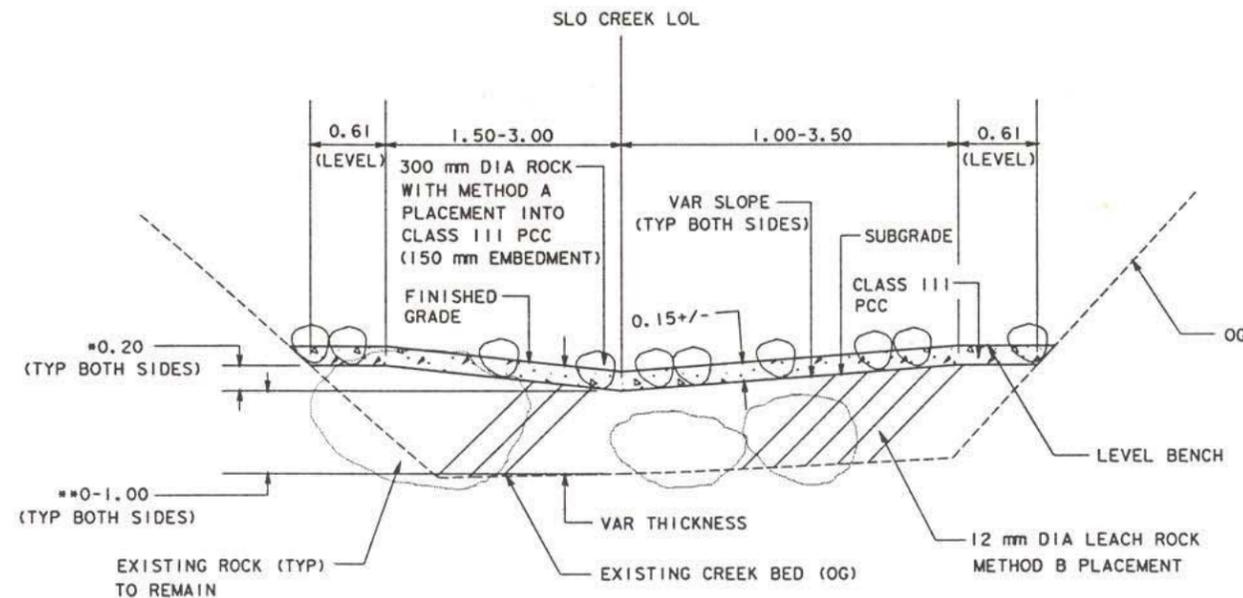


SLO CREEK

STA 10+07.10 TO STA 10+08.25
(LONGITUDINAL LIMITS OF ROCK WEIR)

*MEASURED FROM SUBGRADE AT CREEK LOL
TO SUBGRADE AT LEVEL BENCH

**MEASURED FROM EXISTING CREEK BED (OG)
AT CREEK LOL TO SUBGRADE AT CREEK LOL



SLO CREEK

STA 10+01.10 TO STA 10+07
STA 10+08.35 TO STA 10+15 (END)

TYPICAL CROSS SECTIONS

