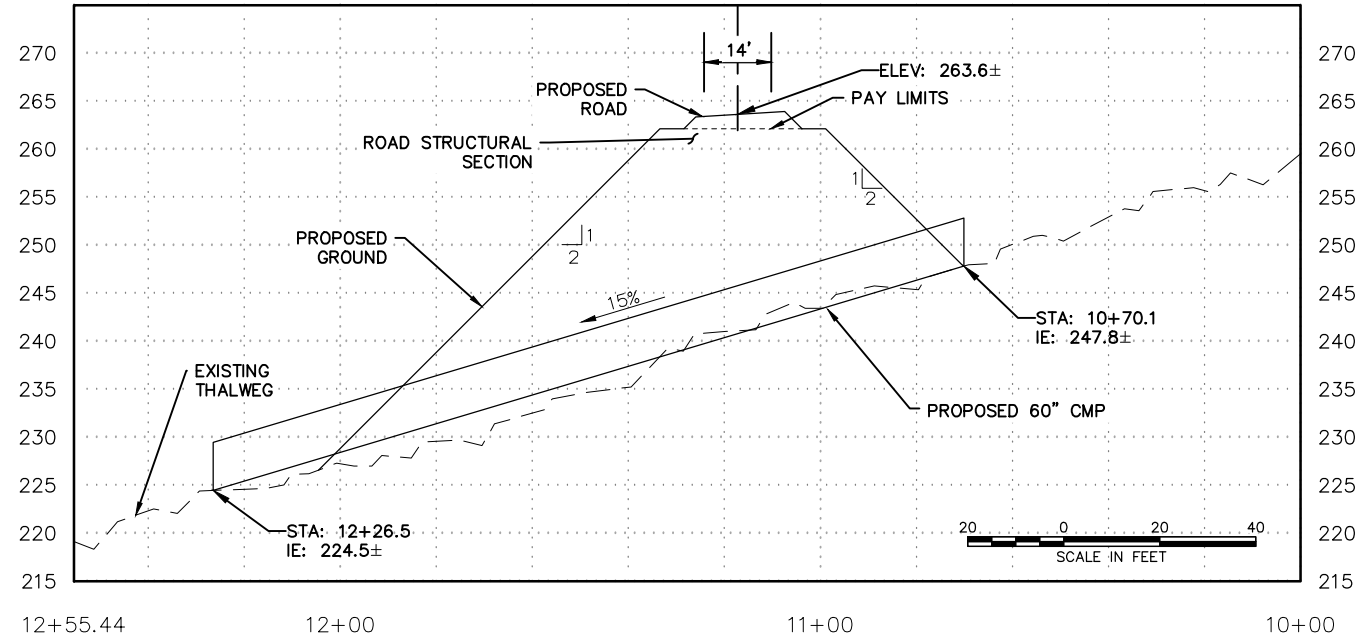


HYDROLOGIC & HYDRAULIC SUMMARY				
EXCEEDANCE PROBABILITY	RETURN PERIOD (YEAR)	DESIGN DISCHARGE (CFS)	DESIGN HIGH WATER ELEVATION (FT)	HW/D
2.00%	50	133	233.28	0.73
1.00%	100	148	233.85	0.79
DRAINAGE AREA = 0.26 SQUARE MILES				

PERMANENT FILL BELOW OHW		
MATERIAL	VOL (CY)	AREA (SF)
STEEL CULVERT	1	790
CLASS II RIPRAP	22	276
CLASS III RIPRAP	43	300
BEDDING, CLASS B	193	2686
GEOTEXTILE SEPARATION	1	114

CULVERT SUMMARY SCHEDULE	
SIZE	5'
LENGTH	158'
SLOPE	15%
CORRUGATION	3" X 1"
MATERIAL	STEEL
GAUGE	12
EMBEDMENT	0'
MINIMUM COVER	1'

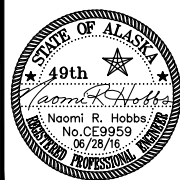


ESTIMATE OF QUANTITIES		
Item	Unit	Quantity
EXCAVATION	CUBIC YARD	129
EMBANKMENT	CUBIC YARD	1930
SHOT ROCK BORROW	CUBIC YARD	277
BEDDING, CLASS B	CUBIC YARD	212
60 INCH CMP	LINEAR FOOT	158
RIPRAP, CLASS II	CUBIC YARD	48
RIPRAP, CLASS III	CUBIC YARD	43
GEOTEXTILE SEPARATION	SQUARE YARD	61

- NOTES:**
1. EXTEND RIPRAP OUTLET APRON TO OHW ON SIDES OF CHANNEL AS DIRECTED BY ENGINEER.
 2. USE RIPRAP, CLASS III AT OUTLET APRON ONLY. SEE PLAN FOR EXTENTS.
 3. IF BEDROCK IS ENCOUNTERED DURING EXCAVATION FOR CULVERT CONTACT ENGINEER IMMEDIATELY FOR DIRECTION.

Addendum 1

REVISIONS			
REV	DATE	DESCRIPTION	BY



WEST JUNEAU FISH PASSAGE DESIGN
 JUNEAU, ALASKA
 MAJOR STREAM CULVERT: STA 59+50
 STREAM PLAN AND PROFILE
 JUNEAU, ALASKA

PROJECT 70819-01
 DATE 06/28/2016
 SHEET
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