DocuSign Envelope ID: 3DDFABD9-ABA8-420E-A2A0-CDAC6891EE21

8/17/99

REVISIONS

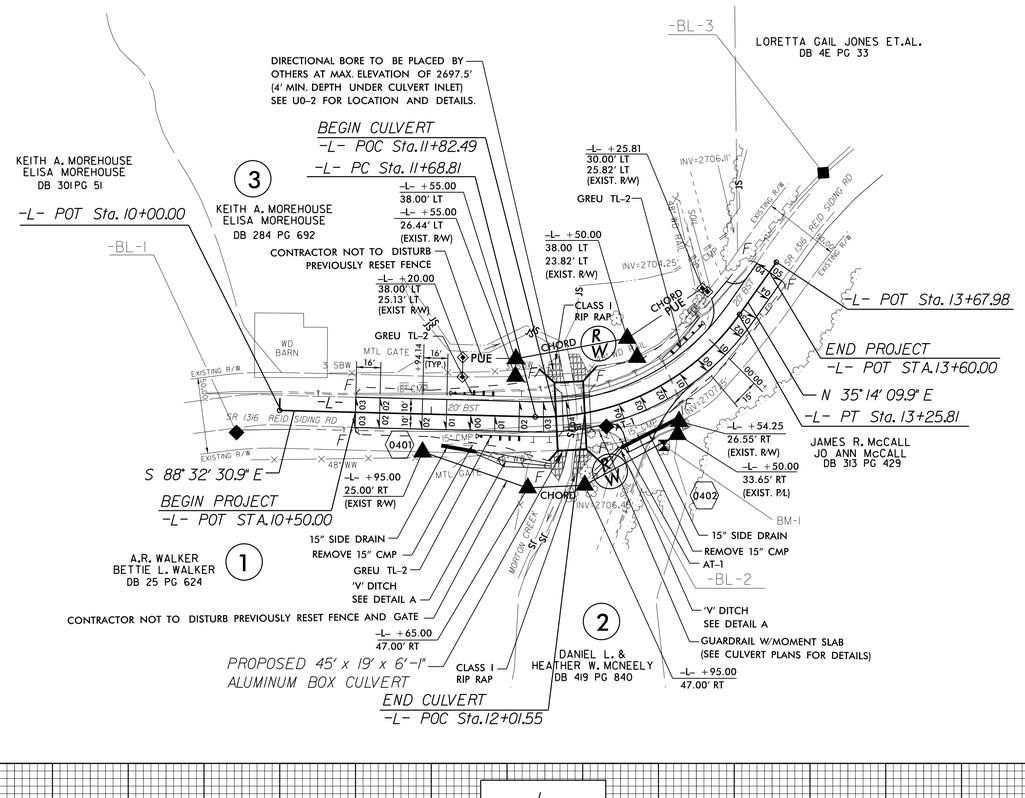
PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.6	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
4/18/2018	4/18/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

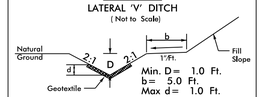
NAD 83/NSRS 2007

-L- CURVE DATA

PI Sta 12+54.28
△ = 56° 13' 19.2" (LT)
D = 35° 48' 35.5"
L = 157.00'
T = 85.47'
R = 160.00'
SE = 0.04
RO = SEE PLANS



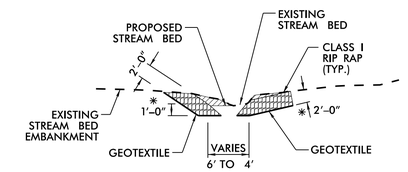
DETAIL A
LATERAL 'V' DITCH
(Not to Scale)



Type of Liner = Class B Rip-Rap

FROM -L- STA. 11+30 TO STA. 11+78 (RT)
EST. DDE = 16 CY
EST. CLASS B RIP RAP = 12 TONS
EST. GEOTEXTILE FOR DRAINAGE = 25 SY

FROM -L- STA. 11+99 TO STA. 12+18 (RT)
EST. DDE = 10 CY
EST. CLASS B RIP RAP = 7 TONS
EST. GEOTEXTILE FOR DRAINAGE = 16 SY

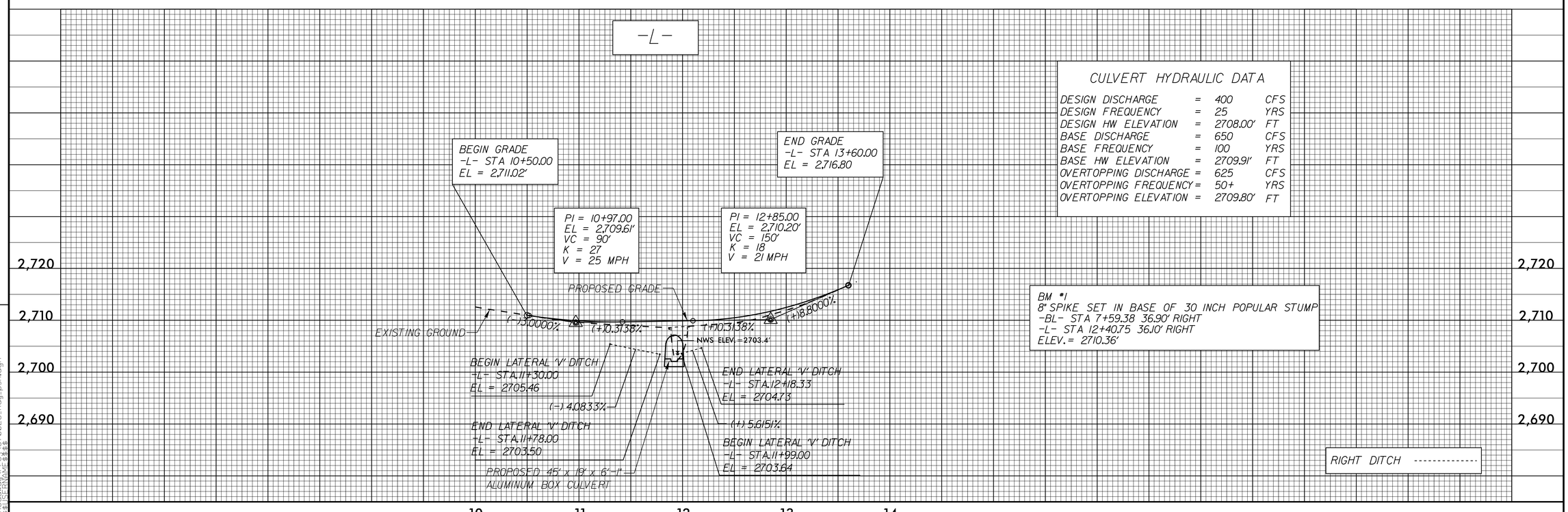


CHANNEL EXCAVATION DETAIL

CHANNEL EXCAVATION
* SLOPE VARIES FROM 2:1 TO EXISTING

EST. CLASS I RIP RAP = 63 TONS (STR. PAY ITEM)
EST. GEOTEXTILE = 64 SY (STR. PAY ITEM)

FOR CULVERT PLANS, SEE SHEETS C-1 THRU C-3



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	=	400	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	2708.00'	FT
BASE DISCHARGE	=	650	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	2709.91'	FT
OVERTOPPING DISCHARGE	=	625	CFS
OVERTOPPING FREQUENCY	=	50+	YRS
OVERTOPPING ELEVATION	=	2709.80'	FT

BM #1
8" SPIKE SET IN BASE OF 30 INCH POPULAR STUMP
-BL- STA 7+59.38 36.90' RIGHT
-L- STA 12+40.75 36.10' RIGHT
ELEV. = 2710.36'

RIGHT DITCH ----------

18-APR-2018 15:10
R:\Roadway\Proj\8700028_Rdy_psh.dgn
$$USER$$
$$DATE$$
$$TIME$$