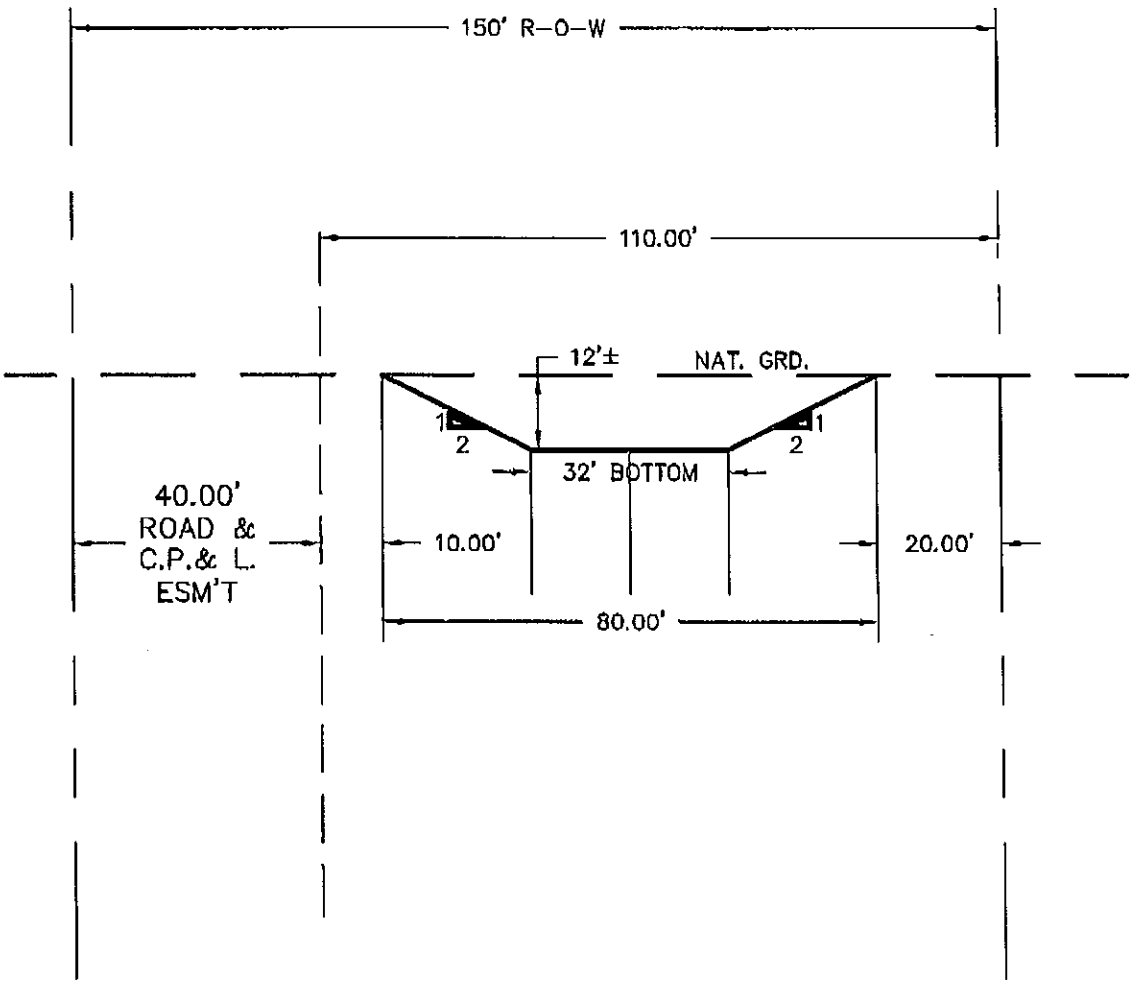
APPENDIX C

SCHEMATIC DRAWINGS



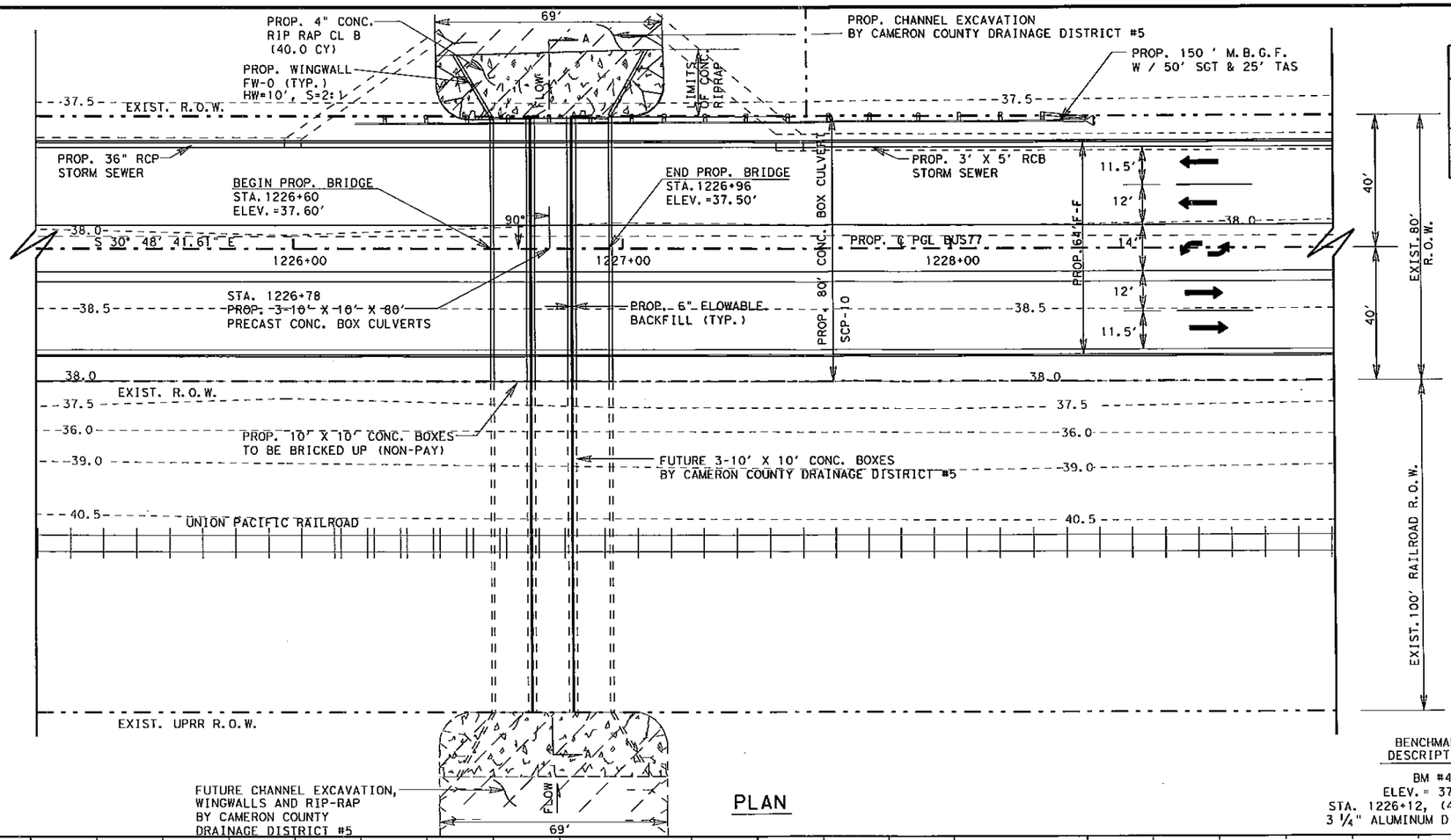
WILSON TRACT MAIN
TYPICAL DITCH SECTION

SCALE: 1"=30'

BROWN, LEAL & ASSOCIATES
Consulting Engineers (TX. FIRM LIC. # F-5079)
915 Morgan Blvd. P.O. Box 1308 Harlingen, Tx. 78551 (956) 428-4014*Fax 412-1837

JOB NO.: 9829M-07

S:\Drafting\Drawings\CODE\WILSON TRACT MAIN\9829M-07_U.S. 77 BOX CULVERTS\TYP SECT.dwg



PLAN

HYDRAULIC DATA							
DESIGN FREQ.	Q (CFS)	CHANNEL SLOPE (FT/FT)	CHANNEL "n"	HW (FT)	TW (FT)	CHANNEL V (FT/S)	BRIDGE V (FT/S)
25 YR	1460	0.0004	0.032	34.45	33.90	3.31	5.00
100 YR	1884	0.0004	0.032	36.30	35.34	3.55	6.28

HYDRAULIC ANALYSIS BASED ON HEC-RAS CALCULATIONS

DRAINAGE AREA: 4,480 ac. = 7.00 sq.mi. AND PROPOSED Q25 & Q100 WERE PROVIDED BY CAMERON COUNTY DRAINAGE DISTRICT #5

LEGEND

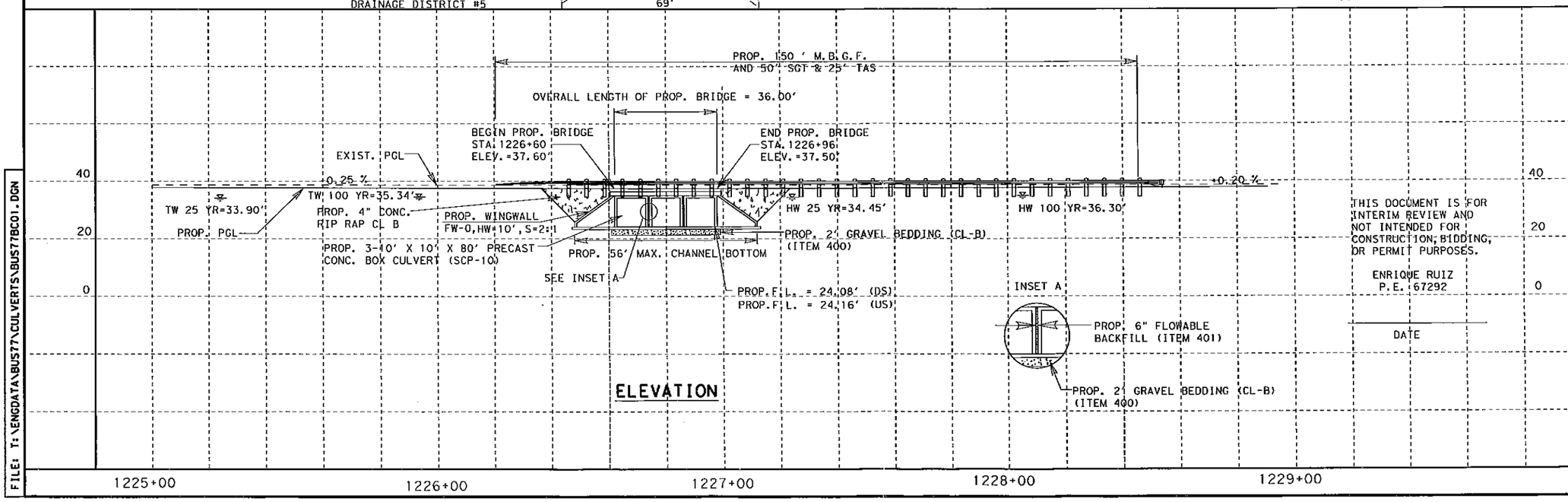
- PROP. CHANNEL EXCAVATION
- PROP. FLOWABLE BACKFILL
- PROP. CONC. RIP-RAP

BENCHMARK DESCRIPTION

BM #4
ELEV. = 37.48'
STA. 1226+12, (45.73', LT.).
3 1/4" ALUMINUM DISK IN CONC.

GENERAL NOTES

1. ROADWAY DIMENSIONS SHOWN ARE PERPENDICULAR TO BUS 77.
2. ALL DIMENSIONS AND PIPE BEND ANGLES SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. CONTRACTOR IS RESPONSIBLE FOR SPOTTING UTILITIES PRIOR TO STARTING EXCAVATION.



ELEVATION

DESIGN DATA

FUNC. CLASS: RURAL PRINCIPAL ARTERIAL
ADT (2007) : 7,000
ADT (2027) : 10,100
DESIGN SPEED : 55 MPH
POSTED SPEED : 55 MPH
DESIGN LOADING : HS 20

PERMANENT STRUCTURE NUMBER

PROP. NBI # 21-031-0-0327-08-215

SCALE:
PLAN HORIZ 1"= 40'
VERT 1"= 10'

THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

ENRIQUE RUIZ
P.E. 67292

DATE

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TEXAS DEPARTMENT OF TRANSPORTATION

BUS 77
BRIDGE CLASS BOX CULV. LAYOUT
STA. 1226+78

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP ( )		125
STATE	DIST.	COUNTY	
TEXAS	PHARR	CAMERON	
CONT.	SECT.	JOB	HIGHWAY NO.
0327	08	080	BUS 77

FILE: T:\ENGDATA\BUS77\CULVERTS\BUS77BC01.DGN