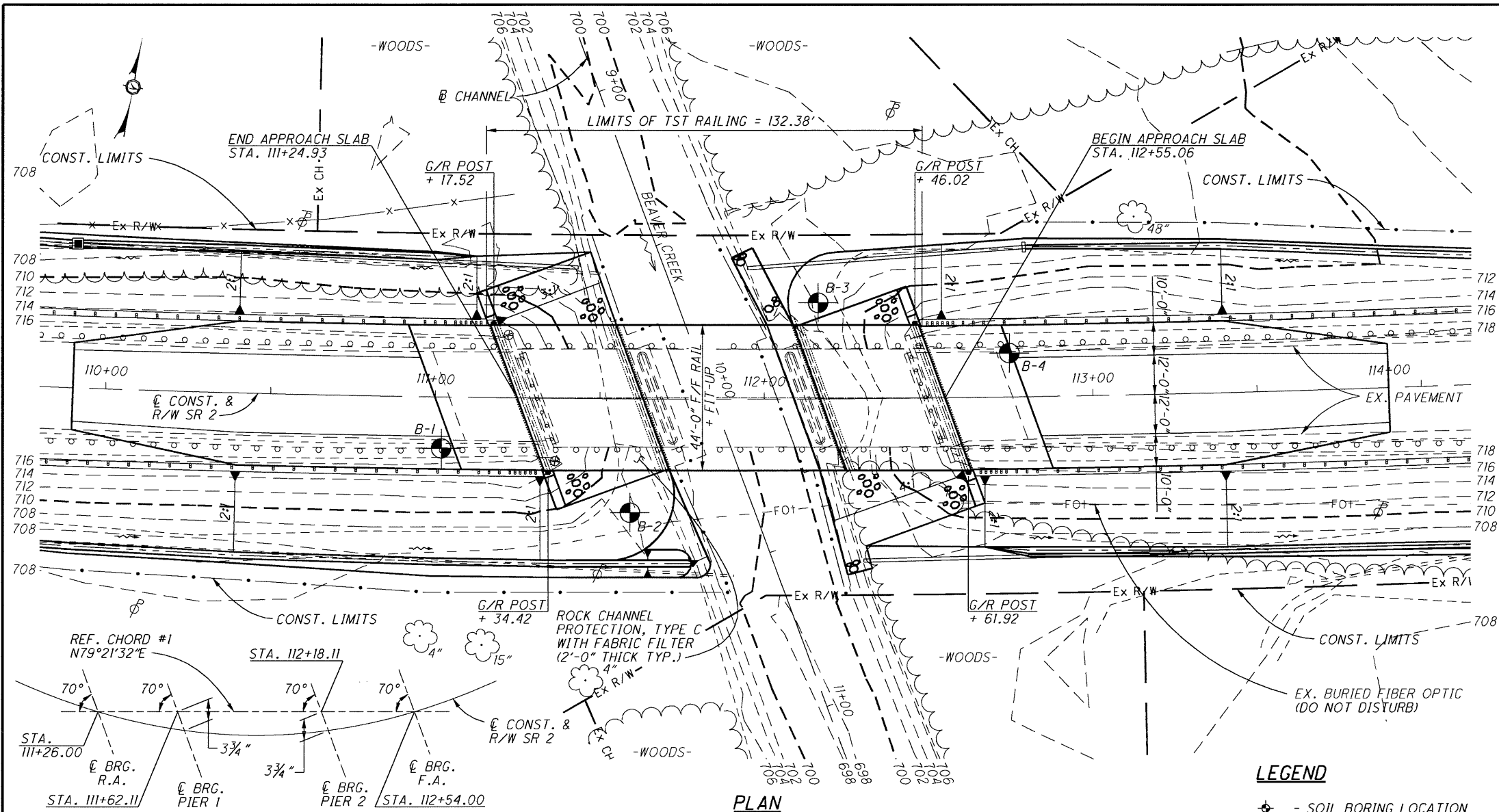
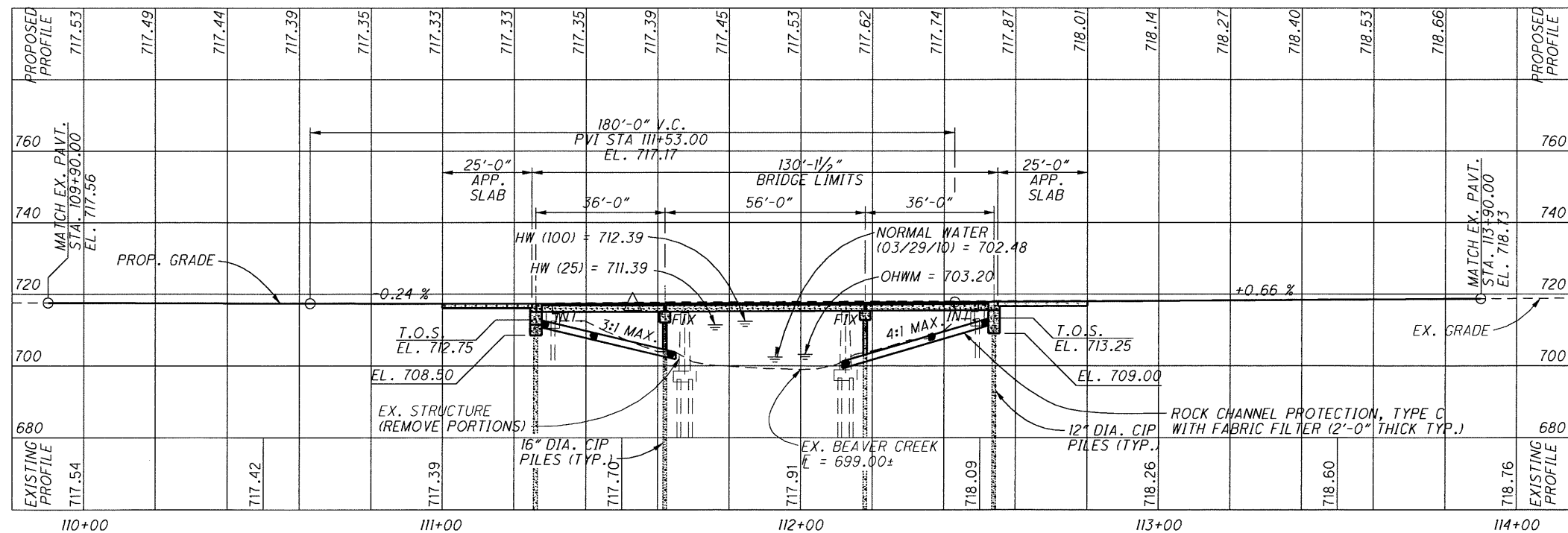




BRIDGE REFERENCE CHORD DIAGRAM



NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

FOR EXISTING CURVE INFORMATION SEE ROADWAY PLAN SHEET

PROPOSED WORK SHALL INCLUDE REMOVAL OF THE EXISTING STRUCTURE, CONSTRUCTING A NEW 3-SPAN COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE ON CAPPED PILE PIERS AND INTEGRAL ABUTMENTS, AND REPLACING THE APPROACH SLABS.

BENCHMARK DATA

BM #201 STA.111+22.07, ELEV. 715.19, OFFSET 19.20', LEFT
BM #202 STA.111+36.44, ELEV. 714.90, OFFSET 19.23, RIGHT

DESIGN TRAFFIC:

2013 ADT = 3920 2009 ADTT = 275
2033 ADT = 4140 2029 ADTT = 290
DIRECTIONAL DISTRIBUTION = 0.55

SOIL BORING INFORMATION

BORING NO.	STATION	OFFSET	ELEVATION
1	111+02.07	15.71' RT.	717.06
2	111+59.32	34.82' RT.	708.12
3	112+16.52	29.35' LT.	706.25
4	112+74.77	13.41' LT.	717.95

HYDRAULIC DATA

DRAINAGE AREA: 38.80 SQ. MILES
Q(25): 1740 CFS Q(100): 2130 CFS
VELOCITY(25): 2.44 FPS VELOCITY(100): 2.60 FPS
DEPTH OF FLOW: 12.15 FT DEPTH OF FLOW: 13.15 FT
HEADWATER ELEV.: 711.39 HEADWATER ELEV.: 712.39
DESIGN YEAR FLOW CLEARS BRIDGE LOW CHORD BY 3.05 FT.

EXISTING STRUCTURE

TYPE: 3-SPAN CONTINUOUS ROLLED STEEL BEAM BRIDGE W/ REINFORCED CONCRETE DECK ON REINFORCED CONCRETE SUBSTRUCTURES
SPANS: 36', 45', 36' C/C BEARINGS
ROAD WIDTH: 30'-0" F/F GUARDRAIL
SKEW: 20° R.F.
LOAD: H-15-33
WEARING SURFACE: BITUMINOUS
APPROACH SLABS: 25'-0" LONG, FLARED
ALIGNMENT: 1°00' LEFT CURVE
SUPERELEVATION: 0.021 FT/FT
STRUCTURE FILE NUMBER: 8600244
DATE BUILT: 1940
DISPOSITION: FULL REPLACEMENT

PROPOSED STRUCTURE

PROPOSED WORK: FULL REPLACEMENT
TYPE: 3-SPAN COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE ON CAPPED PILE PIERS & INTEGRAL ABUTMENTS
SPAN: 36'-0", 56'-0", 36'-0" C/C SUBSTRUCTURES MEASURED ALONG REFERENCE CHORD
ROAD WIDTH: 44'-0" F/F GUARDRAIL + FIT-UP
SKEW: 20° R.F.
LOAD: HL-93 + 60 PSF FWS
DECK: 6" MIN. CONCRETE
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81 (25'-0" LONG)
ALIGNMENT: 1°00' LEFT CURVE
SUPERELEVATION: 0.029 FT/FT
STRUCTURE FILE NUMBER: 8600252
COORDINATES: LATITUDE: N41° 28' 45" LONGITUDE: W84° 29' 45"