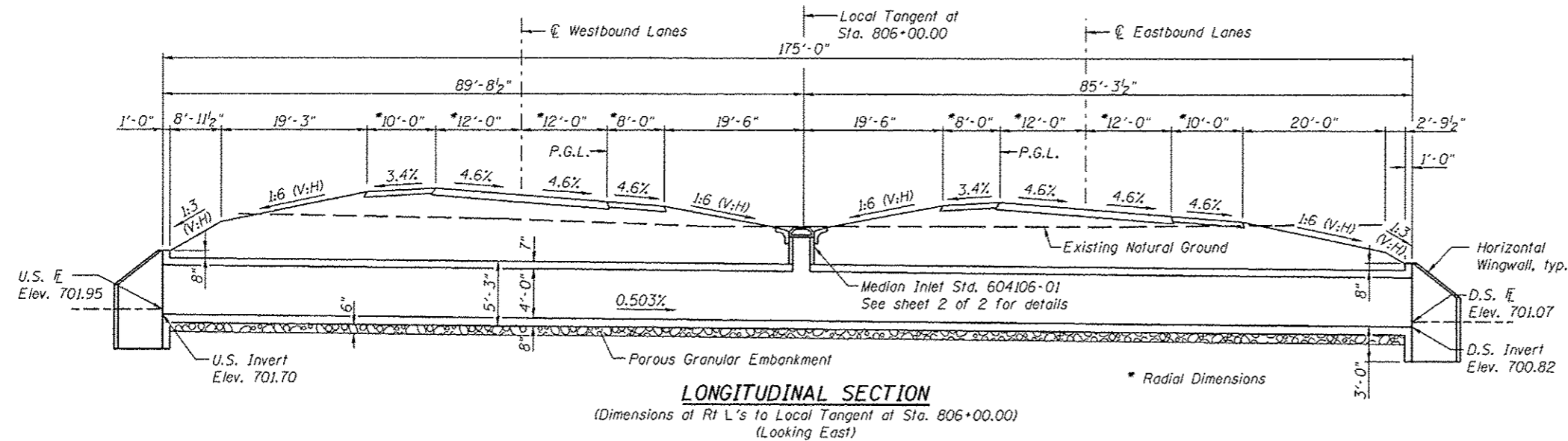


Benchmark: Railroad Spike in power pole on 1500 N Rd., Sta. 5006+15, 30' Lt., Elev. 712.45.

Existing Structure: None

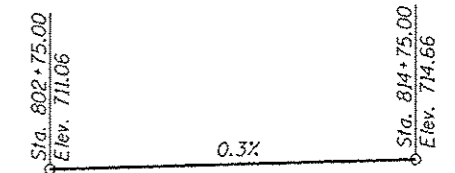


INDEX OF SHEETS

1. General Plan and Elevation
2. Culvert Details

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	362
Reinforcement Bars	Pound	27,180
Concrete Box Culverts	Cu. Yd.	103.9

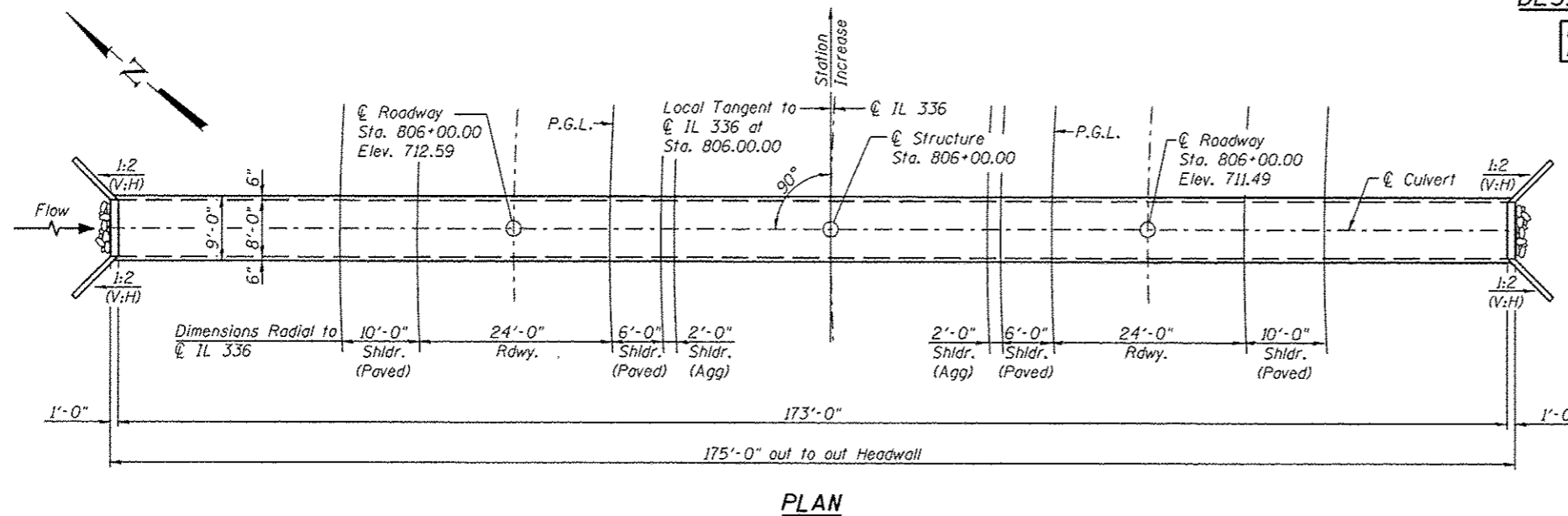


DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	698.70	697.82

PROPOSED CURVE DATA

PROP. CURVE IL336-6
 P.I. STA. = 817+51.31
 $\Delta = 52^\circ 49' 20''$ (RT)
 $D = 1^\circ 30' 00''$
 $R = 3,820.00'$
 $T = 1,897.19'$
 $L = 3,521.74'$
 $E = 445.18'$
 $e = 4.6\%$
 $T.R. = 40.36'$
 $S.E. RUN = 206.10'$
 $P.C. STA. = 798+54.13$
 $P.T. STA. = 833+75.87$



GENERAL NOTES

Backfill within the limits of the paved surface to the top of culvert elevation shall be performed using Porous Granular Embankment.
 See Roadway plans for limits of Porous Granular Embankment.
 See Roadway plans for layout of riprap and riprap quantities.
 See Roadway plans for location and quantity of median inlet.
 Precast alternate is not allowed.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

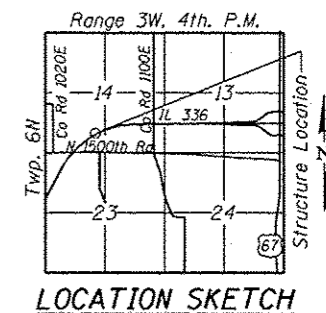
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



Michael T. Haley 11-28-12
 Date
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2014



GENERAL PLAN & ELEVATION

ILLINOIS ROUTE 336
OVER DRAINAGE DITCH
F.A.P. RTE. 407 - SEC. (55-3)A
MCDONOUGH COUNTY
STA. 806+00.00



USER NAME	DESIGNED	REVISIONS
FILE NAME	CHECKED - ZTB	REVISIONS
PLOT SCALE	DRAWN - TBP	REVISIONS
PLOT DATE	CHECKED - MTH	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	107	273