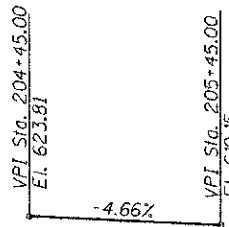


B.M.: RR Spike in PP Sta. 201+35.22' Lt. Elev. 628.86  
 B.M.: RR Spike in PP Sta. 204+08.21' Rt. Elev. 625.87  
 B.M.: RR Spike in LP Sta. 208+90.22' Lt. Elev. 615.60

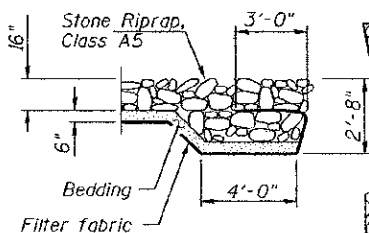
Existing Structure:  
 Triple 15.5'x7' (varying) reinforced concrete box culvert.  
 The structure is 42'-0" out to out, and is not skewed.  
 Str. No. 050-8006

Salvage: None

Road to be closed to traffic during construction.



PROPOSED PROFILE GRADE



SECTION A-A

PRAIRIE CREEK  
 BUILT 201 BY  
 LASALLE COUNTY  
 SEC. 11-00693-00-DR  
 STATION 205+00.00  
 STR. NO. 050-8026 LOADING HL-93

NAME PLATE

Locate Name Plate at South Headwall  
 S.W. Corner of Culvert (See Std. 515001)

WATERWAY INFORMATION

Drainage Area = 6.04 Sq. Mi.		Low Grade Elev. = 613.20* @ Sta. 207+00.00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater E.I.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	30	1467	320	343	620.25	0.29	0.28	620.54	620.53
Base	100	1940	322	351	621.25	0.51	0.44	621.76	621.69

Construction of this project complies with IDNR,  
 Office of Water Resources State wide permit No. 12.

\*Roadway protected by roadside berm.

DESIGN SPECIFICATIONS

2010 AASHTO & Interims

DESIGN STRESSES

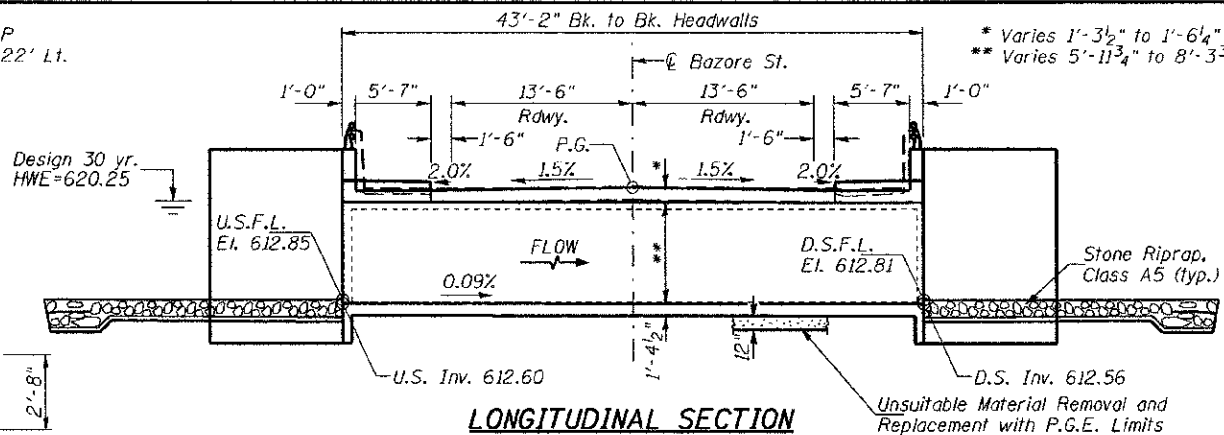
FIELD UNITS

$f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

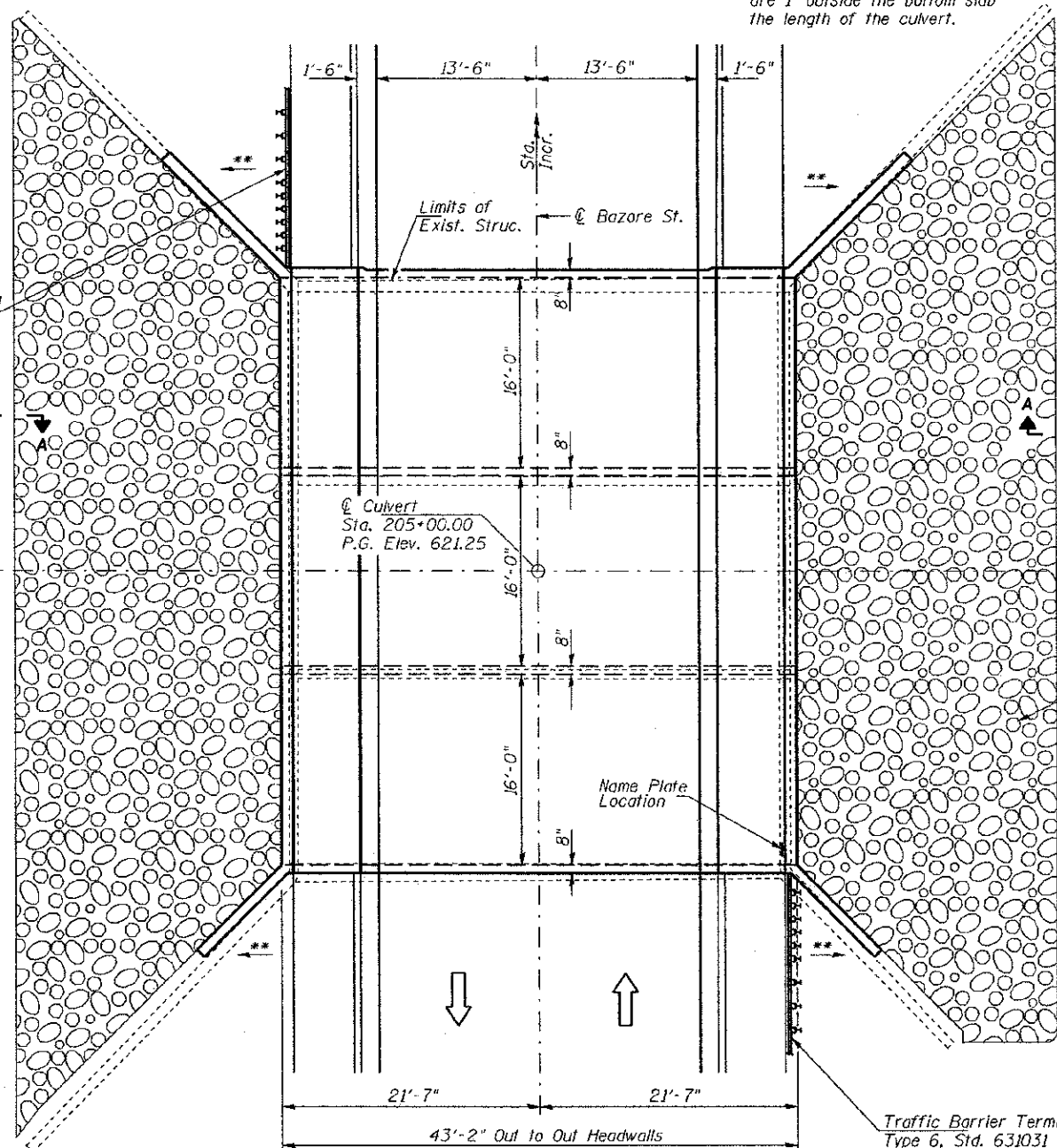
LOADING HL-93

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

DESIGNED	NPH
CHECKED	BAN
DRAWN	RMD
CHECKED	BAN



LONGITUDINAL SECTION



PLAN

**GENERAL NOTES**  
 Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60.  
 For backfilling and embankment see Standard Specifications.  
 Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted.  
 Precast culvert option will not be allowed.  
 Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.  
 A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.  
 All excavation required for construction of the culvert in accordance with the Standard Specifications shall be included in the cost of Concrete Box Culverts.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Areas of excavation required for removal of the existing structure or construction of the new culvert shall be backfilled with P.G.E. See Special Provisions for more detailed information.  
 Actual quantity, if any, of Removal & Disposal of Unsuitable Material shall be determined in the field by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	CU YD	305.2
Reinforcement Bars, Epoxy Coated	POUND	51,710
① Removal of Existing Structures	EACH	1
Name Plates	EACH	1
Stone Riprap, Class A5	SQ YD	349
Filter Fabric	SQ YD	349
Aluminum Railing, Type L	FOOT	98
Porous Granular Embankment	CU YD	260
Protective Coat	SQ YD	275
Removal & Disposal of Unsuitable Material	CU YD	84

① See Special Provisions

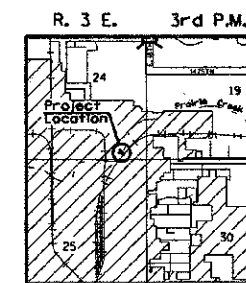
DESIGN SCOUR TABLE

Location	Upstream	Downstream
Design Scour Elevation	612.60	612.56

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.  
 This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of Highway Bridges.

*James A. Moore* 3/28/2012  
 Illinois Structural No. 6527  
 Expires 11/30/2012

Stone Riprap, Class A5 (typ.)



LOCATION SKETCH

GENERAL PLAN & ELEVATION

SHEET NO. 1	F.A.U. RTE. 6143	SECTION 11-00693-00-DR	COUNTY LA SALLE	TOTAL SHEETS 20	SHEET NO. 12
6 SHEETS	S.N. 050-8026		CONTRACT NO. 87522		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRM-5066(016)			