

Bench Mark: GPS control point at Station 11055+65.22, 29.18' Rt. Elev. 810.62.

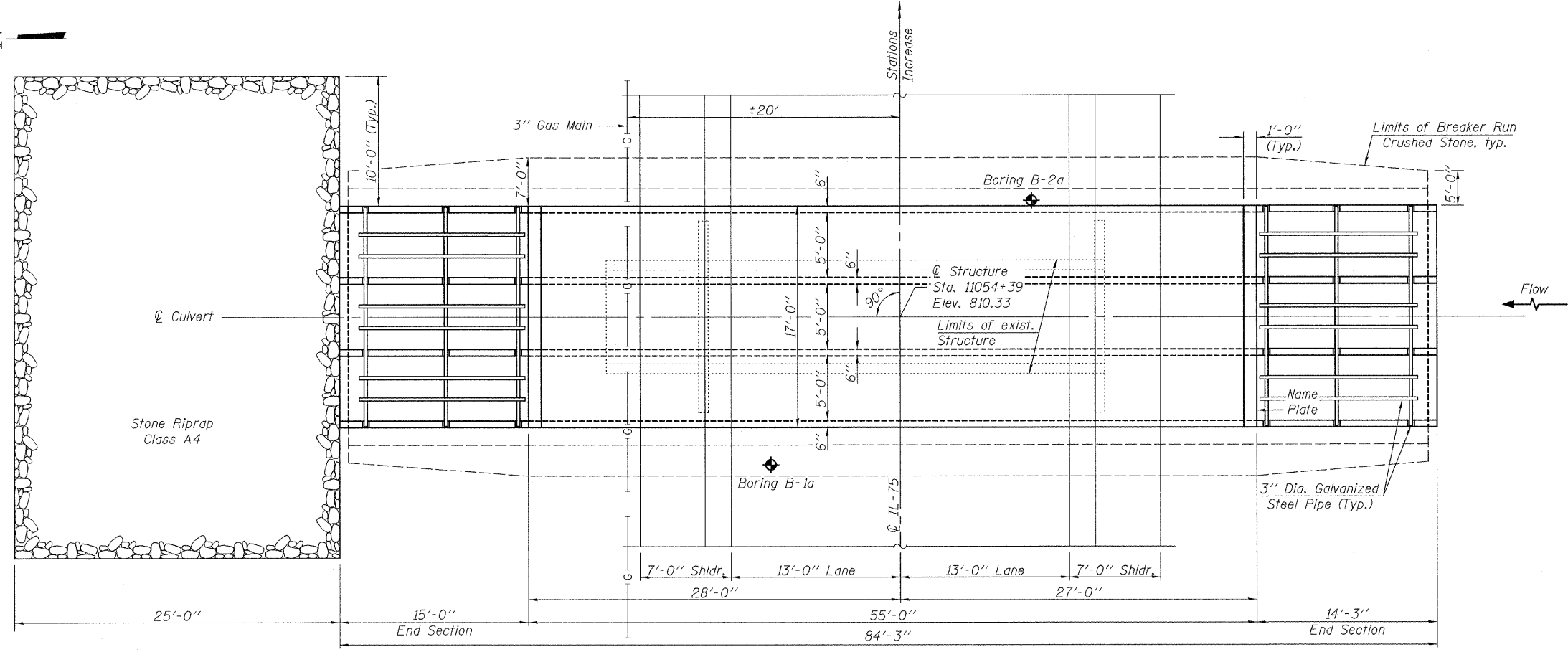
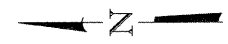
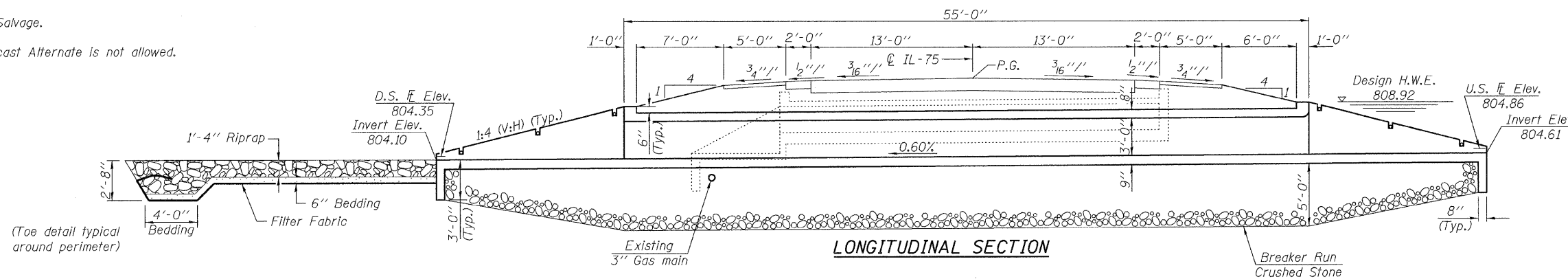
Existing Structure: SN 101-1044 is a 7'x2' reinforced concrete box culvert.  
Culvert length of 31'-0". Traffic to be detoured.

No Salvage.

Precast Alternate is not allowed.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 5 SHEETS
FAP 505	**	WINNEBAGO	335	149	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract # 64970  
\*\* (W-15d) T-1



**LOADING HS20-44**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
AASHTO 2002 Standard Specifications  
for Highway Bridges

**DESIGN STRESSES**  
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)  
f<sub>y</sub> = 35,000 psi (steel pipe)

**WATERWAY INFORMATION**

Drainage Area = 170 Acres	Low Grade Elev. 810.26
	Sta. 11052+83
Flood	Freq. Q Headwater El.
	Yr. C.F.S. Exist. Prop.
Ten-Year	10 220 810.53 807.76
Design	50 309 810.63 808.92
Base	100 357 810.67 809.66
Ex Overtopping	<1 98 810.26
Pr Overtopping	159 391 810.26

**INDEX OF SHEETS**

Sheet No.	Description
1.	General Plan and Elevation
2.	Culvert Details I
3.	Culvert Details II
4.	Culvert Details III
5.	Borings

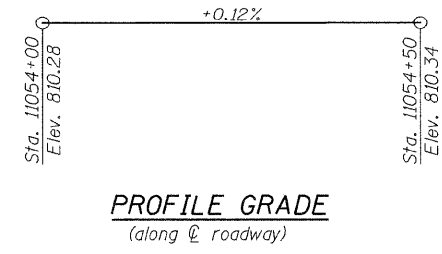
STATION 11054+39  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RT. 505 SEC. (W-15d)T-1  
LOADING HS20  
STRUCTURE NO. 101-1083

**NAME PLATE**  
See Std. 515001

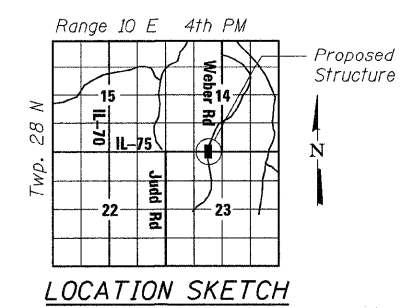
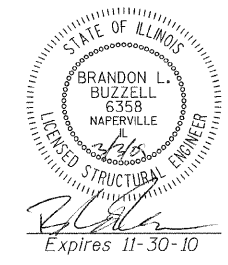
**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
The proposed grated end sections (headwalls and wingwalls) shall extend less than four inches (i.e. 3 inches typical) above the adjacent ground elevation.  
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
See Sheet 3 of 5 for Breaker Run Crushed Stone details.

**PLAN**



REMOVED FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 14	Each	1
Concrete Box Culverts	Cu. Yd.	82.7
Reinforcement Bars	Pound	14,750
Stone Riprap, Class A4	Sq. Yd.	103
Filter Fabric	Sq. Yd.	103
Breaker Run Crushed Stone	Ton	683
Name Plates	Each	1

**rjngroup**  
Excellence through Ownership  
200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
GENERAL PLAN AND ELEVATION  
IL-75 OVER UNNAMED TRIBUTARY  
TO SOUTH BRANCH OTTER CREEK  
FAP RTE 505 - SECTION (W-15d)T-1  
WINNEBAGO COUNTY  
STATION 11054+39  
STRUCTURE NO. 101-1083  
DATE: 3/03/2009  
DRAWN BY JMT  
CHECKED BY BLB