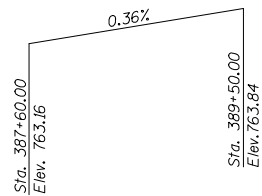


EXISTING STRUCTURE: No Existing Structure

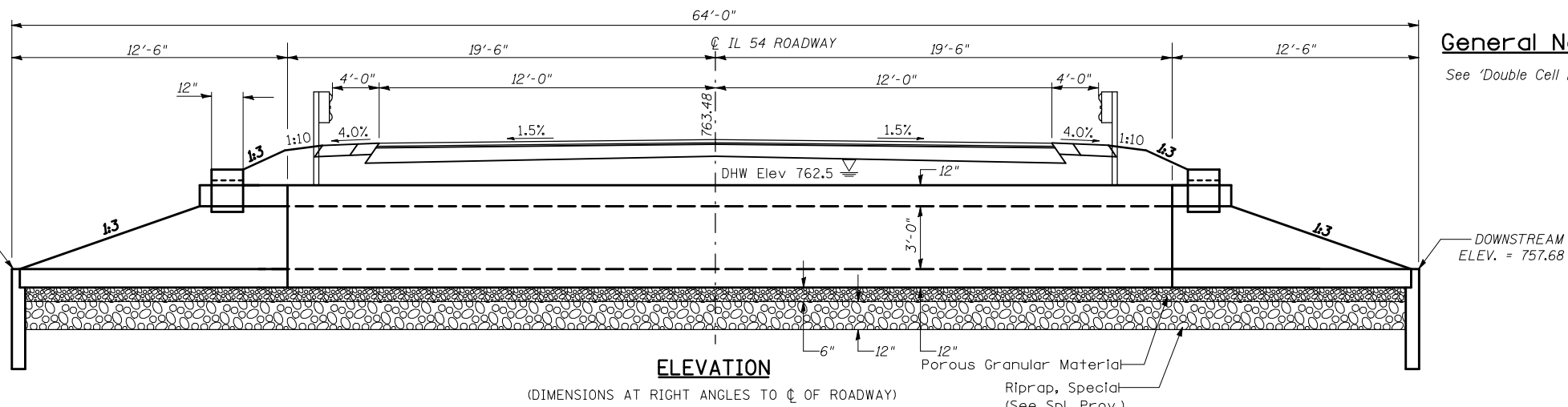
BENCHMARK ELEV. = 764.88 RR Spike in southwest corner F.P., west side F.P., at approx. Sta. 394+25, 35' RT.

**General Notes**

See 'Double Cell Precast Box Culvert End Sections' detail.



**Profile Grade**  
Along  $\text{CL}$  IL 54 Roadway



**ELEVATION**  
(DIMENSIONS AT RIGHT ANGLES TO  $\text{CL}$  OF ROADWAY)

UPSTREAM ELEV. = 757.90

DOWNSTREAM ELEV. = 757.68

STATION 388+50.00  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 71 SEC. 121R  
LOADING HS 20  
STRUCTURE NO. 057-2049

**NAME PLATE**  
See Std. 515001

**INDEX OF SHEETS**

1. General Plan and Elevation
2. Soil Borings

**DESIGN SPECIFICATIONS**

2002 AASHTO

**LOADING HS20-44**

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

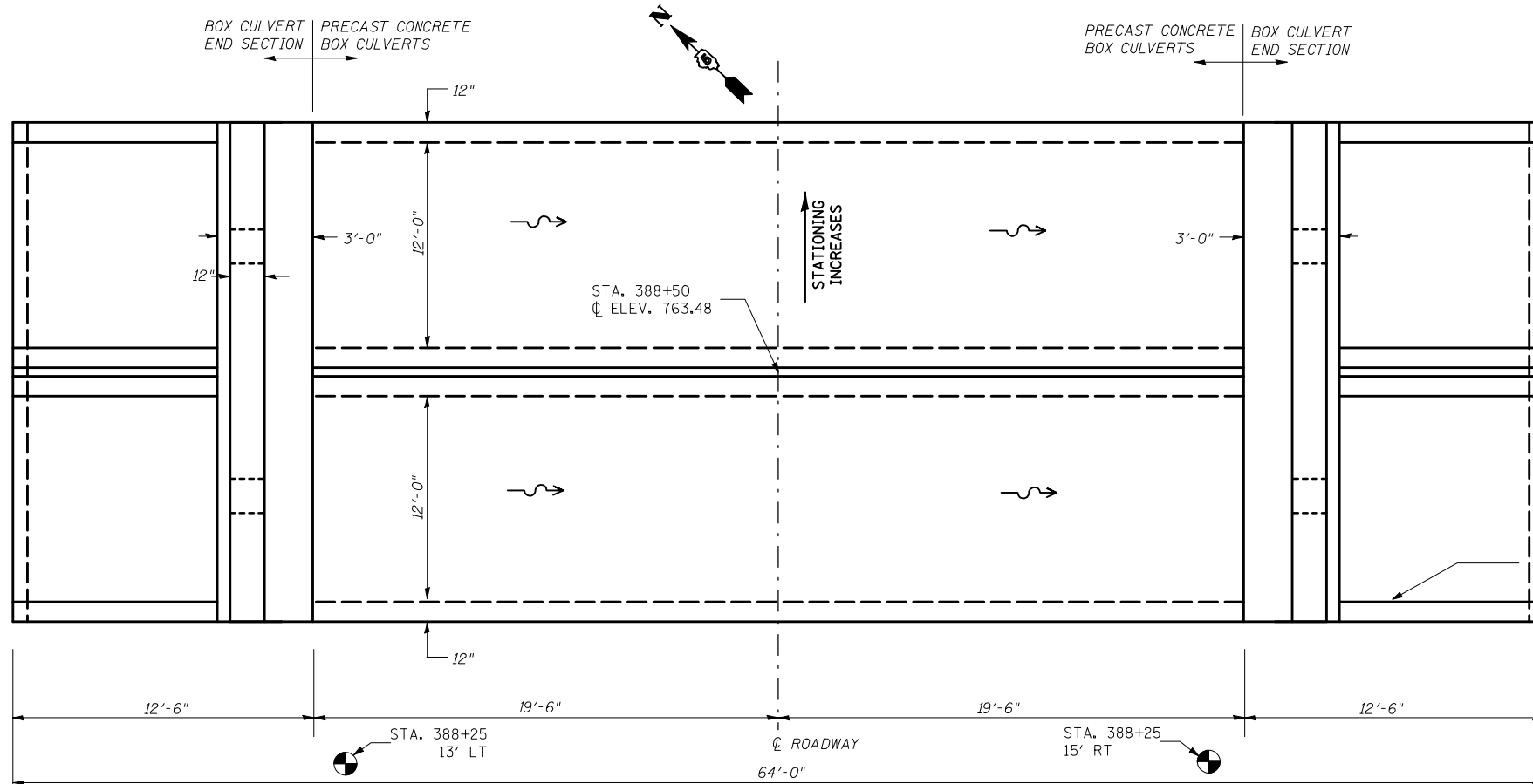
**DESIGN STRESSES**

FIELD UNITS

- $f'c = 3,500$  psi
- $f_y = 60,000$  psi (reinforcement)
- $f_y = 65,000$  psi (welded wire fabric)

PRECAST UNITS

- $f'c = 5,000$  psi
- $f_y = 65,000$  psi (welded wire fabric)



**PLAN**

MOUNT NAME PLATE

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Structures No. 3	Each	1
Precast Concrete Box Culverts 12'x3'	Foot	78
Box Culvert End Sections, Culvert No.3	Each	2
Name Plates	Each	1

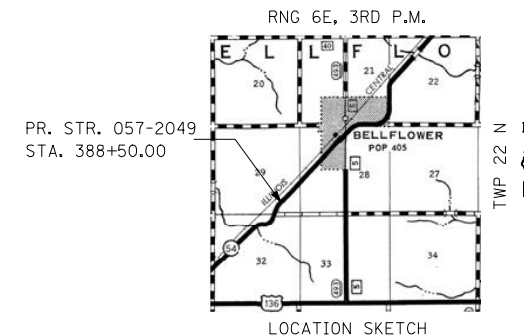
**WATERWAY INFORMATION TABLE**

Route: <b>FAP 71 (IL-54)</b>	Existing S.N.: <b>SLD 6.62 - No Structure Exists</b>
Section: <b>121R</b>	Proposed S.N.: <b>057-2049</b>
County: <b>McLean</b>	Waterway: <b>Unnamed Tributary of Salt Creek</b>
Date: <b>4/30/2009</b>	By: <b>GMS</b>

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
10	222	N/A	72	N/A	N/A	N/A	N/A	761.1	761.1
Design	50	379	N/A	72	N/A	N/A	N/A	762.5	762.5
Base	100	451	N/A	72	N/A	N/A	N/A	Over	Over
Overtopping									
Max. Calc.	500	631	N/A	72	N/A	N/A	N/A	Over	Over

**Design Scour Elevation Table**

Design Scour Elevation (ft.)	Upstream	Downstream
	754.90	754.68



**GENERAL PLAN AND ELEVATION**  
**DOUBLE 12'x3' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 71 - SECTION 121R**  
**MCLEAN COUNTY**  
**STATION 388+50.00 S.N. 057-2049**  
**CULVERT NO. 3**

SHEET 1 OF 2