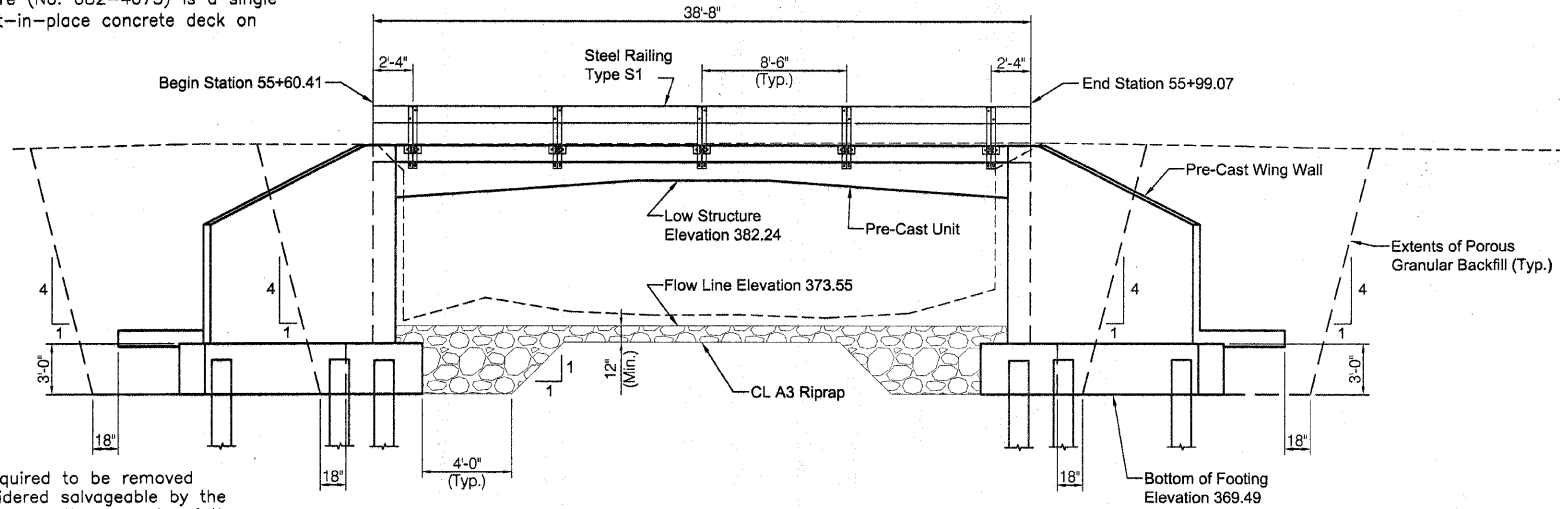


Bench Mark:
 Railroad Spike in Back Face of Power Pole
 Station 57+93.99 - Rt. 26.48
 Elevation = 385.24 ft.

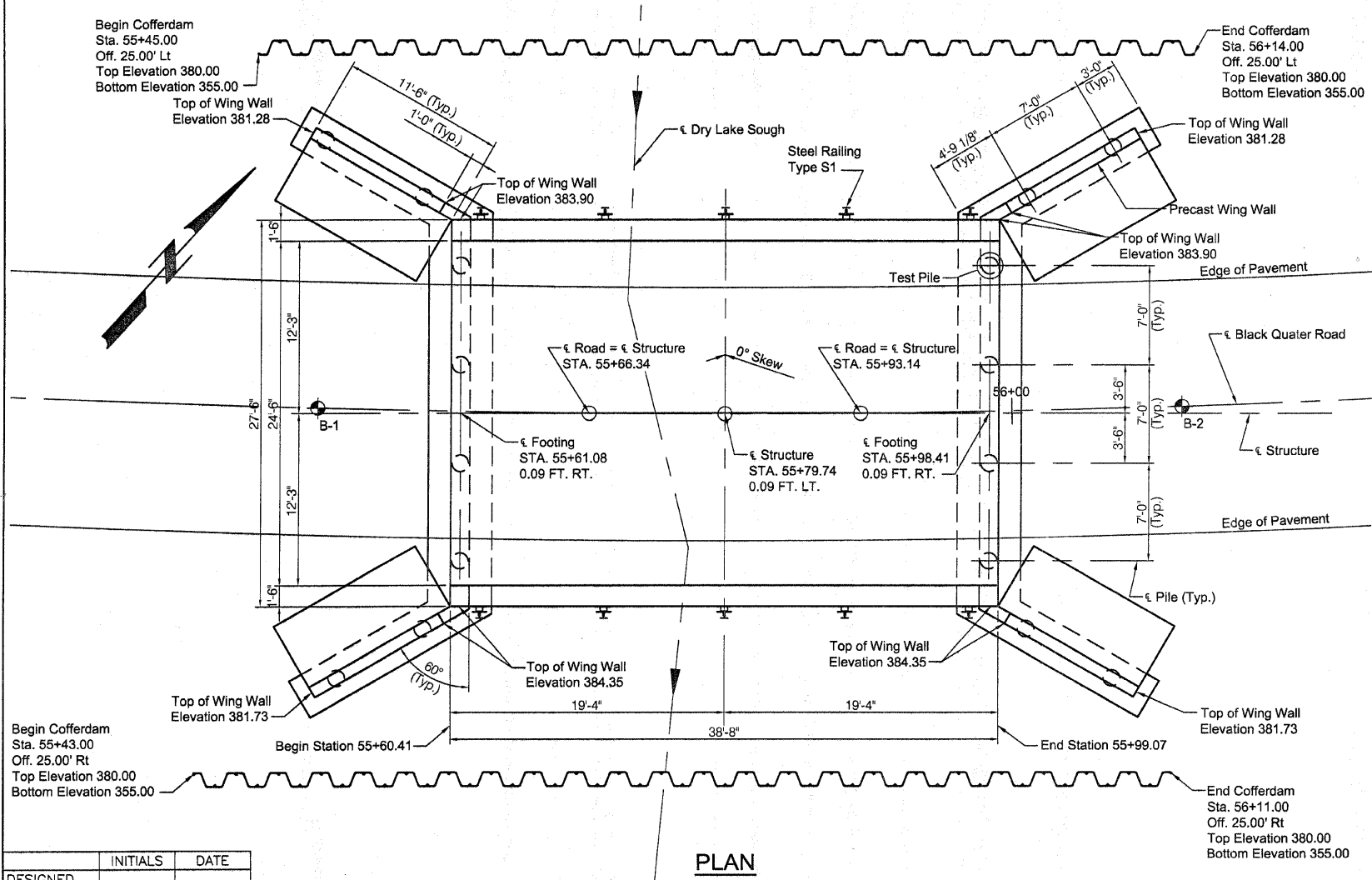
1 - 36' x 10' PRECAST 3 SIDED CONCRETE STRUCTURE

Existing Structure (No. 082-4075) is a single span (35') cast-in-place concrete deck on steel beams.



Salvage:
 All materials required to be removed which are considered salvageable by the engineer shall remain the property of the road district. All others shall be disposed of by the contractor at his own expense.

ELEVATION



PLAN

	INITIALS	DATE
DESIGNED		
CHECKED		
DRAWN		
CHECKED		



GENERAL NOTES:

DESIGN SPECIFICATIONS:

A.A.S.H.T.O. Standard Specifications for Highway Bridges - Seventeenth Edition 2002

CONSTRUCTION SPECIFICATIONS:

Illinois Standard Specifications for Road and Bridge Construction, 2007 Edition

DESIGN LOADING:

Live Load HS20
 Earth 120#/Cu. Ft., Equivalent Fluid Pressure 45#/Cu. Ft.

PILE DATA:

Type = 14"Ø Metal Shell Pile
 Allowable Resistance Available = 1600k
 Nominal Required Bearing = 416k
 Estimated Length = 35 ft.
 Number of Production Piles = 15
 Number Test Piles = 1

SEISMIC DATA:

S.P.C. = B
 A = .13
 S = 1.0

DESIGN UNIT STRESSES:

Concrete Structure (Footings) f'c = 3,500 psi
 Reinforcement Bars (Grade 60) fy = 60,000 psi

REINFORCING STEEL:

Minimum clearance to reinforcing steel shall be 2", unless otherwise shown.

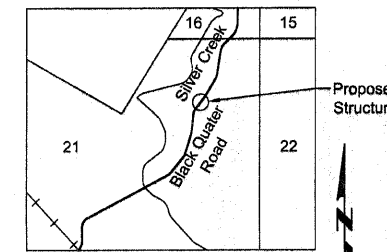
ESTIMATED QUANTITIES

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	169
Concrete Structures	Cu. Yd.	40.8
Reinforcement Bars	Pound	4,600
Steel Railing, Type S1	Foot	77
Cofferdams	Each	2
Furnishing Metal Shell Piles 14" x 0.250"	Foot	525
Driving Piles	Foot	525
Name Plates	Each	1
Three Sided Precast Concrete Structures	Foot	27.5
Precast Concrete Substructure	L.Sum	1
Test Pile Metal Shells	Each	1

Cost of drain openings, course aggregate and geotextile filter fabric shall be considered incidental and included in the cost of Three-Sided Pre-Cast Concrete Structures.

For quantities of Channel Excavation and area of Rock Blanket, see civil drawings.

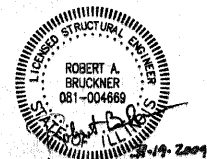
		Discharge (cfs)		Waterway Opening (sqft)		Head (ft)		Headwater Elevation		
Flood	Frequency (year)	Dry Lake Slough	Silver Creek	Existing	Proposed	Natural H.W.E.	Existing	Proposed	Existing	Proposed
Design	15	6041	9559	291.1	295.6	390.26	0.01	0.01	390.27	390.27
Base	100	10276	20013	291.1	295.6	393.24	0.01	0.01	393.25	393.25
Overtopping										
Max. Calc	500	13286	27864	291.1	295.6	395.09	0.00	0.00	395.09	395.09



LOCATION MAP

NEW ATHENS TOWNSHIP T.2S., R.7W.
 N.E. 1/4 SECTION 21

DRY LAKE SLOUGH
 BUILT 20__ BY
 NEW ATHENS TOWNSHIP
 SAINT CLAIR COUNTY
 SEC. 05-14109-00-BR
 STATION 55+79.74
 STRUCTURE NO. 082-4155
 LOADING HS20
 NAME PLATE
 See Std. 515001



"I certify that to the best of my knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design loading shown on plans. The design is an economical one for the style of structure and complies with requirements of current 'AASHTO Standard Specifications for Highway Bridges'."

BRIDGE OVER DRY LAKE SLOUGH
 GENERAL PLAN AND ELEVATION
 SAINT CLAIR COUNTY