Bench Mark #318- Brass Disk in top of concrete curb in southwest corner of structure (S.N. 018-0029) station 399+00, 17' Rt., Elev. 570.56.

Existing Structure- S.N. 018-0029; Built in 1928 as S.B.I. 131 Section 108-B at Station 399+38. Original structure is a 2-span reinforced concrete deck girder supported by closed concrete abutments and a concrete solid shaft pier on spread footings. The structure was reconstructed in 1980 as FA 773, Section 108BR-3. The substructure was partially removed and widened and the superstructure was replaced and widened using PPC deck beams, 75.54' bk. to bk. abutments, 33'-0" out to out of deck. Structure is to be removed and replaced with a 2-span 42" PPC I beam bridge on integral abutments. One lane traffic is to be maintained using stage construction.

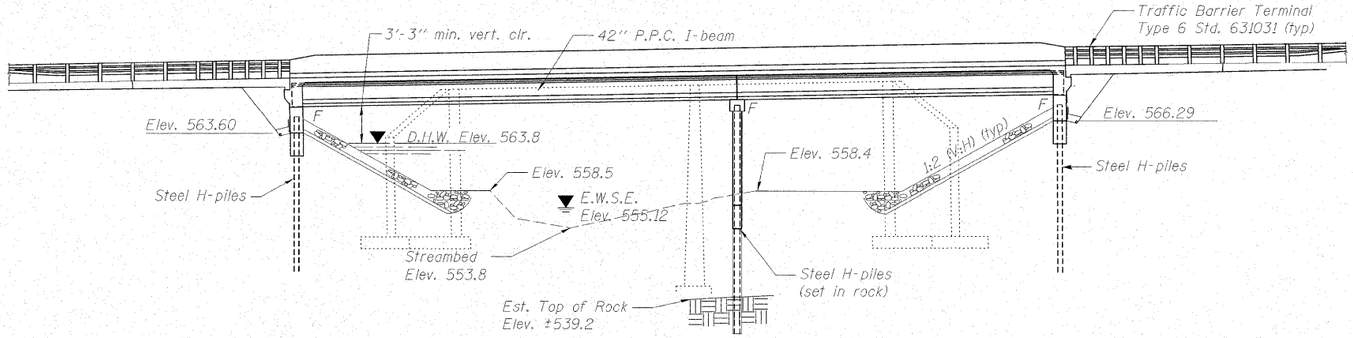
No Salvage-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 773 IL 121	(108BR-3)B-1	CUMBERLAND	96	36
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
22 SHEETS

Contract # 74237



ELEVATION

STATION 399+34.00
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RTE. 773 SEC. (108BR-3)B-1
LOADING HL93
STRUCTURE NO. 018-0062

NAME PLATE
See Std. 515001

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications - 4th ed.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

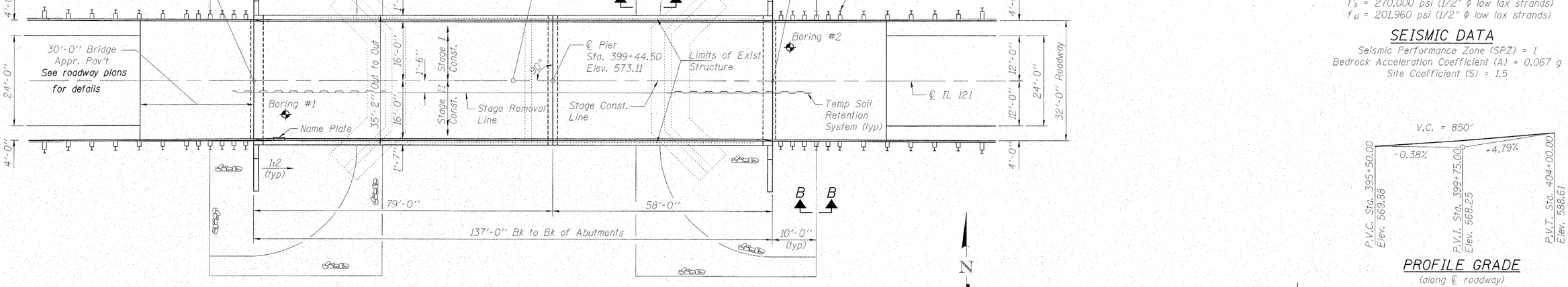
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 7,000 psi
f'_{ci} = 6,000 psi
f'_s = 270,000 psi (1/2" ϕ low lax strands)
f_{si} = 201,960 psi (1/2" ϕ low lax strands)

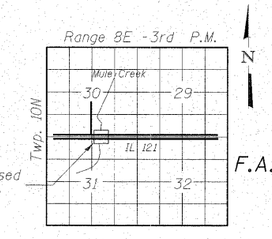
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.067 g
Site Coefficient (S) = 1.5



PLAN

PROFILE GRADE
(along ℄ roadway)



LOCATION SKETCH

GENERAL PLAN & ELEVATION

IL ROUTE 121 OVER MULE CREEK
F.A.P. RTE. 773 - SECTION (108BR-3)B-1
CUMBERLAND COUNTY
STATION 399+34.00
STRUCTURE NO. 018-0062

MAURER ▲ STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

STATE OF ILLINOIS
KRISTEN E. FIELDS
5714
PEORIA, IL
LICENSED STRUCTURAL ENGINEER

Kristen Fields
Date Signed: 1-12-09
Exp. Date: 11-30-10

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier	E. Abut.
	563.6	543.8	566.3

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E Anderson
ENGINEER OF BRIDGES AND STRUCTURES