F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	8
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT•			

SHEET NO. 8 OF 31 SHEETS

CONTRACT NO. 87238

Benchmarks: 1.) USGS Y248 1961 Old Rte. 66 (Lincoln Ave.) & Ditch Bridge ⊙ N.E. corner of bridge Elevation = 642.18.
2.) Set PK Nail in power pole East side of Division St. ±60' North of existing structure Station 28+75/21' Rt. Elevation = 642.33.
3.) Top of fire hydrant on the West side of Division St. ⊙ the S.E. corner of C & C Auto Wrecking & Towing Sta. 31+35/30' Lt. Elevation = 644.23.

Existing Structure: Structure Number 053-0073, built in 1926 and carries F.A.U. 6325 (Division Street) over North Creek. Consist of a 30'-0" single span reinforced concrete T-Beam deck (6-Beams) and a Bituminous Concrete Wearing Surface on two reinforced concrete closed abutments supported by spread footings. The slab thickness is 6". The structure is not skewed to the roadway and is approximately 34'-6" out to out and 33'-0" back to back of abutments. The existing end posts shall be salvaged and reincorporated into the proposed bridge, otherwise the existing structure has no salvage value.

DESIGN SPECIFICATIONS

AASHTO 2002

LOADING HS20-44

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

DESIGN STRESSES

CAST IN PLACE CONCRETE (FIELD UNITS)

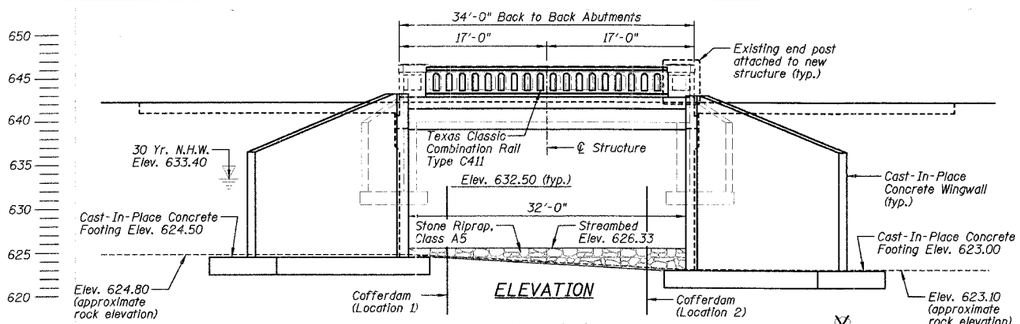
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

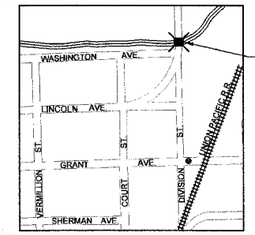
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.043
Site Coefficient (S) = 1.0

HORIZONTAL CURVE DATA

P.I. STA. = 25+70.70
Δ = 90°26'12"
D = 16°11'37"
R = 355.00'
T = 357.72'
L = 560.34'
E = 148.97'
S.E. = 0.04'/ft. & Varies
P.C. STA. = 22+12.99
P.T. STA. = 27+73.33
Attain S.E. Sta. 21+40 to 22+50
Depart S.E. Sta. 27+37 to 28+47



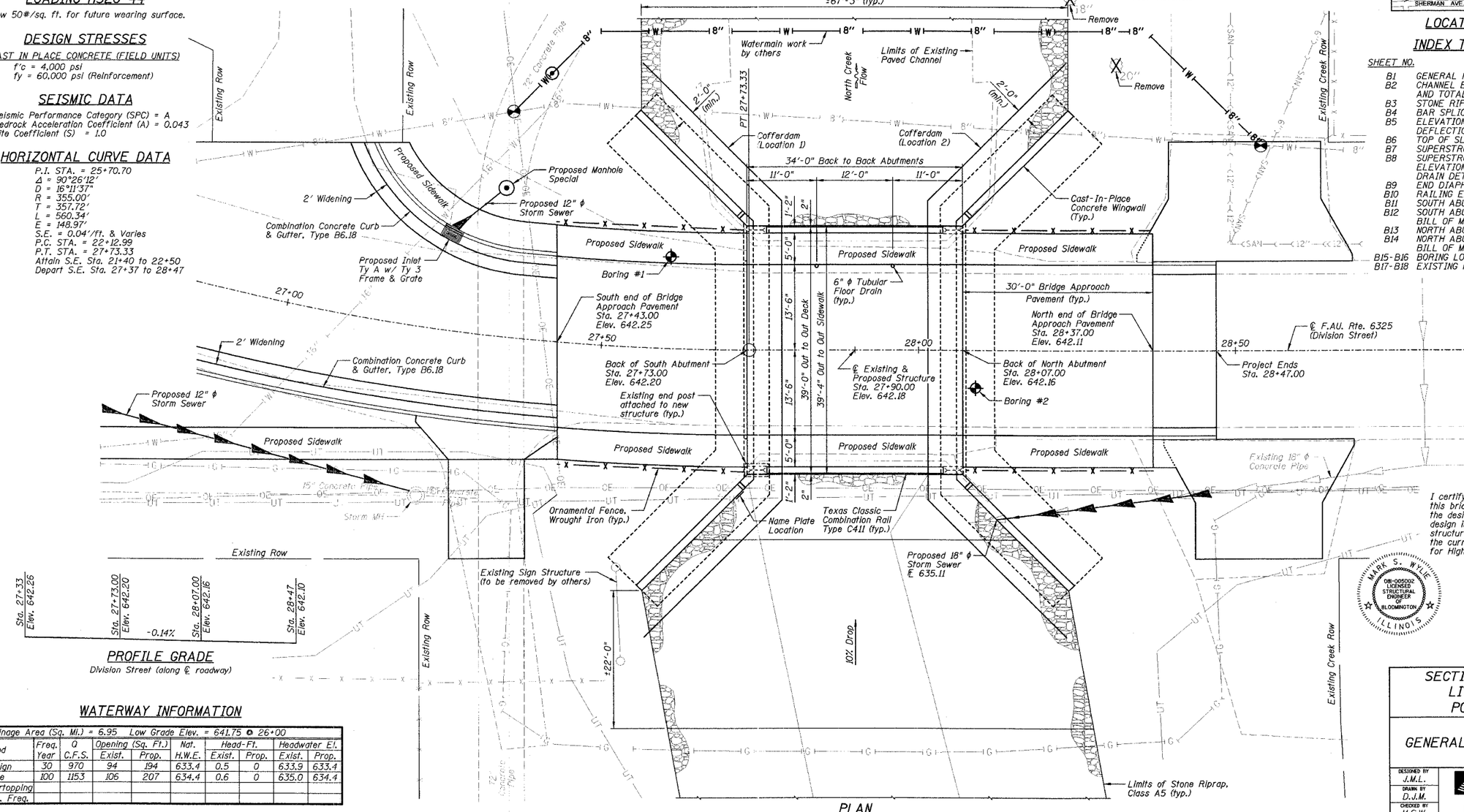
ELEVATION



LOCATION MAP

INDEX TO SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	CHANNEL EXCAVATION PLAN, GENERAL NOTES AND TOTAL BILL OF MATERIALS
B3	STONE RIPRAP LAYOUT PLAN
B4	BAR SPLICER ASSEMBLY DETAILS
B5	ELEVATION LOCATIONS AND DEAD LOAD DEFLECTION DIAGRAM
B6	TOP OF SLAB ELEVATIONS
B7	SUPERSTRUCTURE DECK
B8	SUPERSTRUCTURE CROSS SECTION, GIRDER ELEVATION & TYPICAL DETAIL AND FLOOR DRAIN DETAILS
B9	END DIAPHRAGM ELEVATION AND SECTIONS
B10	RAILING ELEVATION, SECTIONS AND DETAILS
B11	SOUTH ABUTMENT
B12	SOUTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS
B13	NORTH ABUTMENT
B14	NORTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS
B15-B16	BORING LOGS
B17-B18	EXISTING PLANS



PLAN

PROFILE GRADE

Division Street (along ℄ roadway)

WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 6.95 Low Grade Elev. = 641.75 ⊙ 26+00

Flood	Freq. Year	Q C.F.S.	Opening (Sq. Ft.) Exist.	Opening (Sq. Ft.) Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	970	94	194	633.4	0.5	0	633.9	633.4
Base	100	1153	106	207	634.4	0.6	0	635.0	634.4
Overtopping									
Max. Freq.									

I certify that to the best of my knowledge, 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 Specifications for Highway Bridges'.

MARK S. WYLIE 081-005002 LICENSED STRUCTURAL ENGINEER OF BLOOMINGTON ILLINOIS

Mark S. Wylie Date 1/21/05

MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/06

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

GENERAL PLAN AND ELEVATION

DESIGNED BY		FILE NO.
J.M.L.	Farnsworth GROUP	24-6884
DRAWN BY	2709 McGraw Drive	DATE
D.J.M.	Bloomington, Illinois 61704	01-14-05
CHECKED BY	309/663-8435, 309/663-1571 fax	SHEET NO.
M.S.W.		8 OF 31