CONTRACT NO. 60L81

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303 IL 173	2010-086-F	LAKE	29	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
23 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: USGS reference mark on S.W. wingwall of structure 049-0055 (Elev. 228.867)

Existing Structure:
S.N. 049-0056, three span 29.58m Back to Back abutments, 15.748m Out to Out, R.C. slab bridge on closed abutments. Built as IL Route 173, Section 134B-BR at Sta. 860+77 (English) in 1931. The contractor shall remove the existing structure and replace it with a two span steel girder composite superstructure on integral abutments. The road shall be kept open to traffic at all times utilizing stage construction.

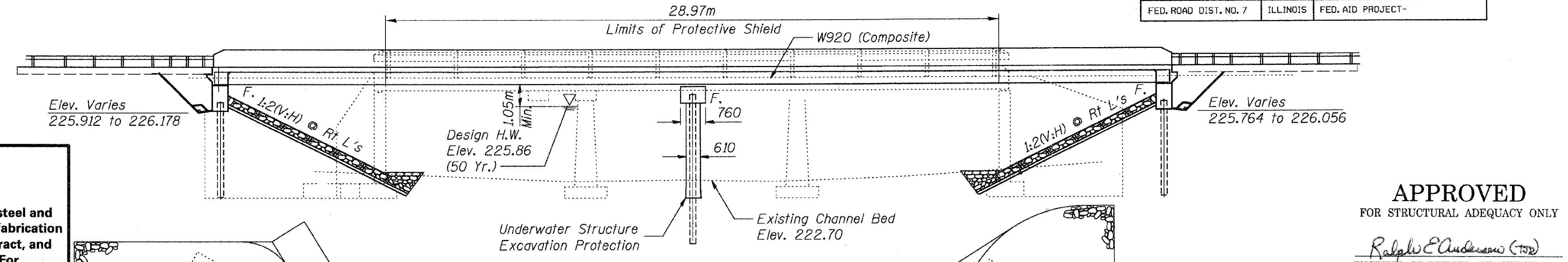
Note: All dimensions in millimeters (mm) except as noted.

No salvage

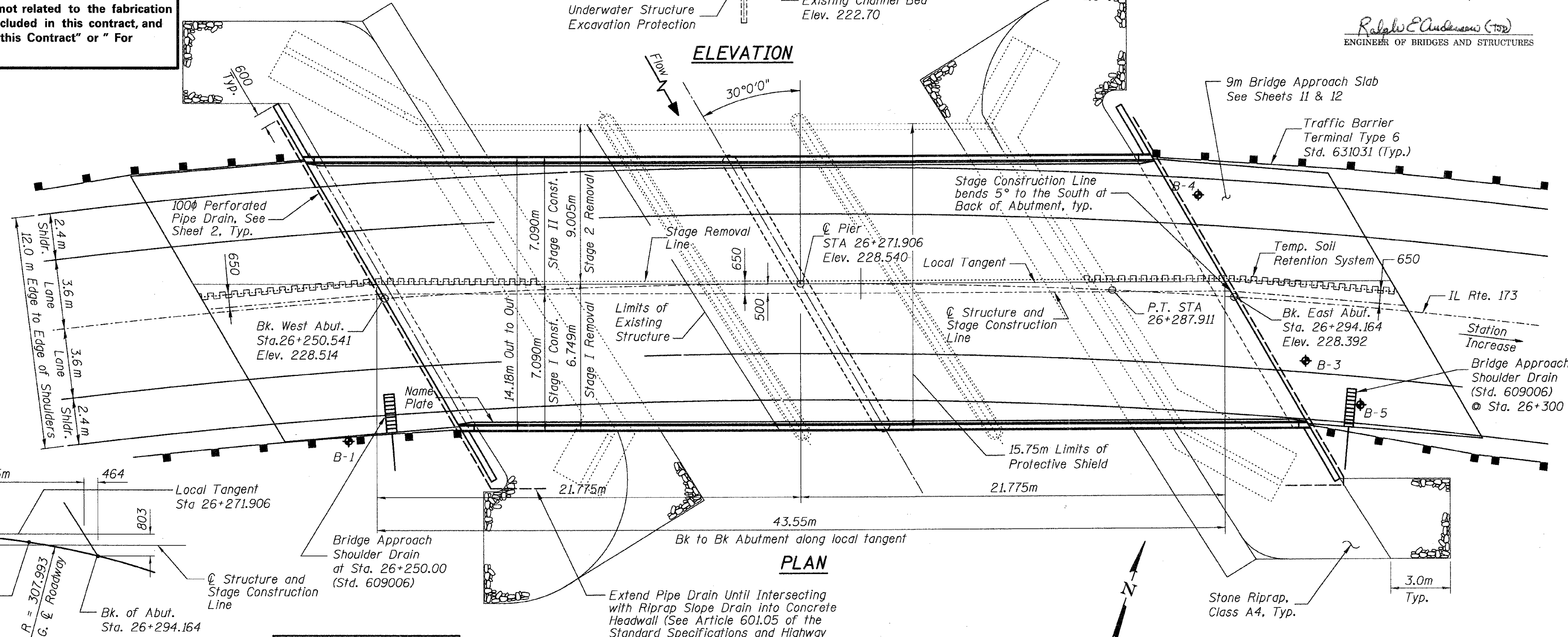
*** - This work is not in the fabrication contract and sheet is not included in these plans.**

These plans are for the fabrication of the structural steel and bearings. All work shown that is not related to the fabrication is for information only.It is not included in this contract, and is identified as "Not Included in this Contract" or " For Information Only"

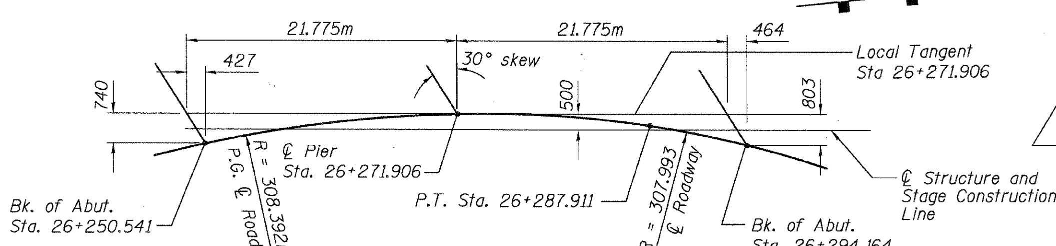
INDEX OF SHEETS



ELEVATION



PLAN



OFFSET SKETCH

HORIZONTAL CURVE DATA-1

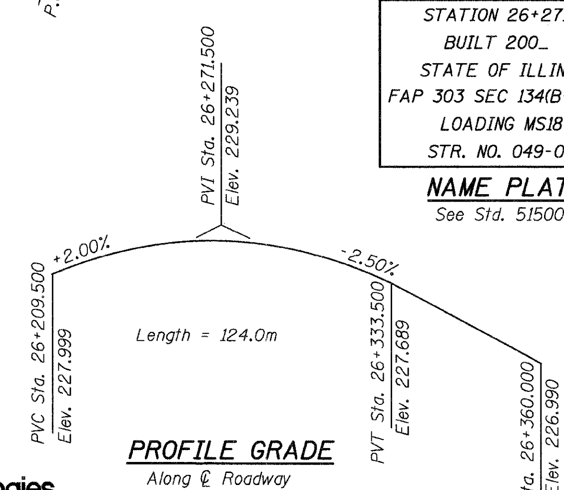
Δ= 20° 20' 01"
T= 55.304m
R= 308.392m
L= 109.443m
E= 4.920m
S.E.= 0.054
P.C. STA= 26+178.468
P.T. STA= 26+287.911
P.I. STA= 26+233.772

HORIZONTAL CURVE DATA-2

Δ= 18° 59' 40"
T= 51.525m
R= 307.993m
L= 102.100m
E= 4.280
S.E.= 0.054
P.C. STA= 26+287.911
P.T. STA= 26+390.011
P.I. STA= 26+339.436

DESIGNED	JRF
CHECKED	RCJ
DRAWN	RDS
CHECKED	JRF

Applied Technologies



PROFILE GRADE
Along ℄ Roadway

STATION 26+271.906
BUILT 200_ BY
STATE OF ILLINOIS
FAP 303 SEC 134(B-2) R-1
LOADING MS18
STR. NO. 049-0198

NAME PLATE
See Std. 515001

LOADING MS18
Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS
AASHTO 1996, 1997 Through
2000 and 2002 Interims

DESIGN STRESSES
FIELD UNITS

f'_c = 24 MPa
f_y = 420 MPa (reinforcement)
f_y = 250 MPa (M270M Grade 250)
f_y = 345 MPa (M270M Grade 345)

WATERWAY INFORMATION

Drainage Area = 2256 km2 Low Grade Elev. 226.7m @ Sta. 26+287

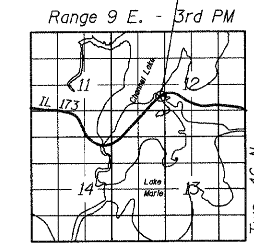
Flood	Freq. Yr.	Q C.M.S.	Opening Sq. M Exist.	Opening Sq. M Prop.	Natural H.W.E. Exist.	Natural H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	0	62.10	61.00	225.46	225.46	0.00	0.00	225.46	225.46
NPDES	25	0	67.40	70.90	225.69	225.69	0.00	0.00	225.69	225.69
Design	50	0	71.40	73.00	225.86	225.86	0.00	0.00	225.86	225.86
Base	100	0	75.60	78.50	226.04	226.04	0.00	0.00	226.04	226.04
Overtopping		0					0.00	0.00		
Max. Calc.	500	0	84.90	91.20	226.44	226.44	0.00	0.00	226.44	226.44

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035g
Site Coefficient (S) = 1.2

ROBERT C. JANKE ... ILLINOIS
EXPIRES 11/30/2010
8/5/10

Proposed Structure
Range 9 E. - 3rd PM



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
FAP 303 IL. ROUTE 173
OVER EAST BOAT CHANNEL
SECTION 2010-086-F
LAKE COUNTY
STATION 26+271.906
STRUCTURE NO. 049-0198

3116-049-0198.dgn