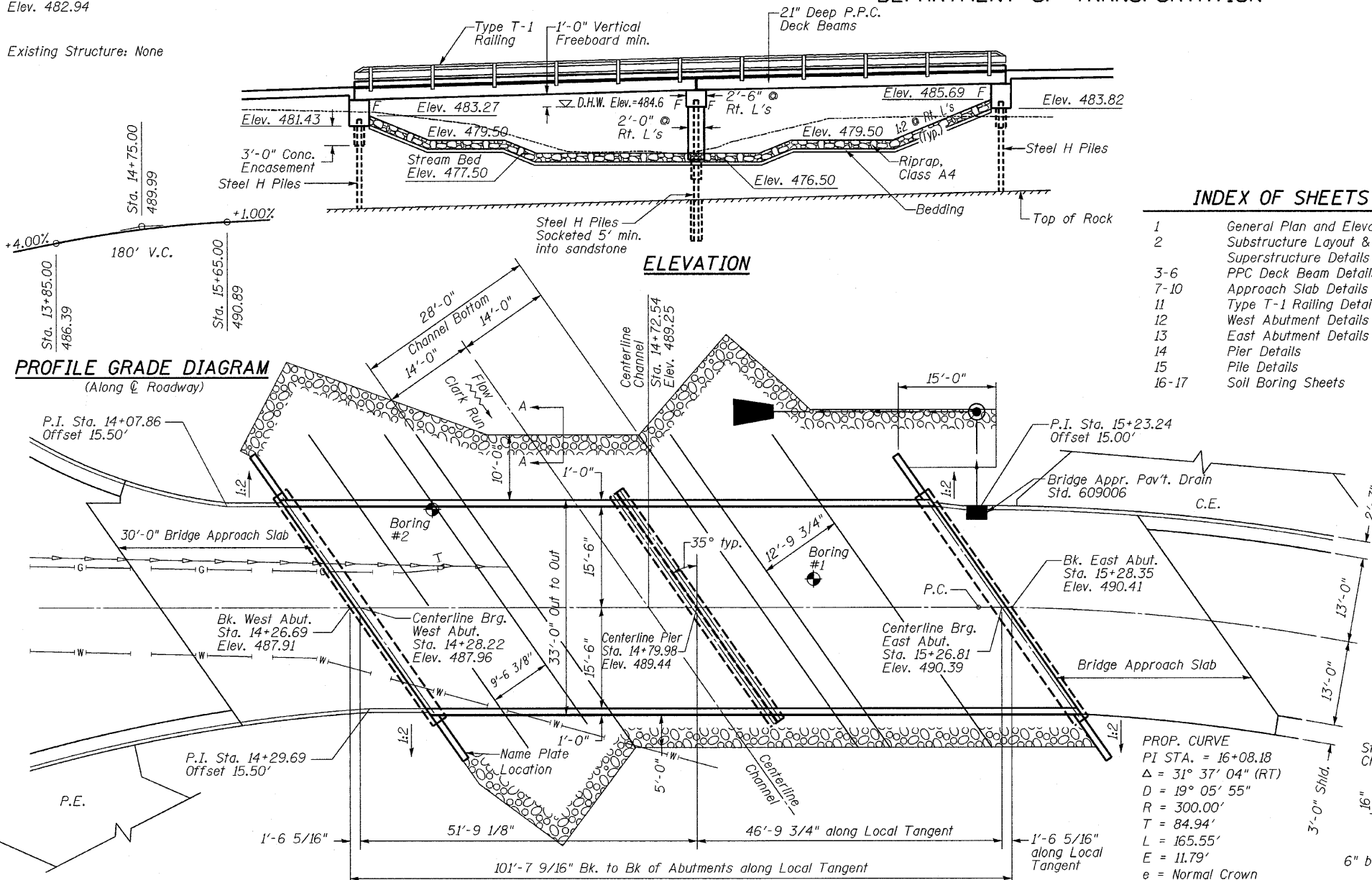


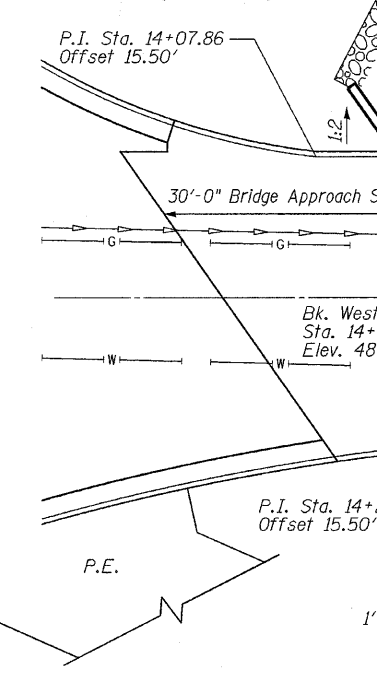
Bench Mark  
Chiseled "X" on top of 5/8 bolt on fire hydrant  
at S.E. corner of Grove Street and Ill Route 178  
Elev. 482.94

Existing Structure: None

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PROFILE GRADE DIAGRAM  
(Along Centerline Roadway)



INDEX OF SHEETS

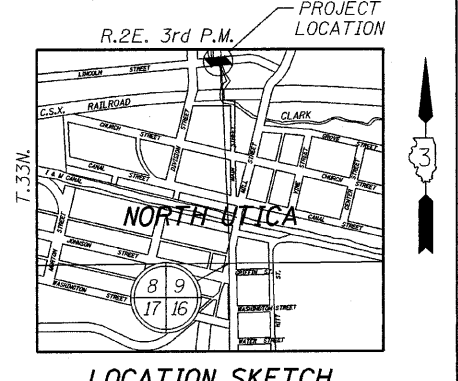
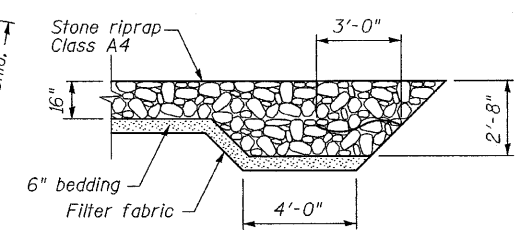
- 1 General Plan and Elevation
- 2 Substructure Layout & Superstructure Details
- 3-6 PPC Deck Beam Details
- 7-10 Approach Slab Details
- 11 Type T-1 Railing Details
- 12 West Abutment Details
- 13 East Abutment Details
- 14 Pier Details
- 15 Pile Details
- 16-17 Soil Boring Sheets

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
4. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
5. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
6. If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed under water in to forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	85	85
Stone Riprap, Class A4	Sq. Yd.	-	-	628
Filter Fabric	Sq. Yd.	-	-	628
Structure Excavation	Cu. Yd.	-	42	42
Concrete Structures	Cu. Yd.	-	107.2	107.2
Concrete Superstructure	Cu. Yd.	117.0	-	117.0
Concrete Encasement	Cu. Yd.	-	7.5	7.5
Protective Coat	Sq. Yd.	325	-	325
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3296	-	3296
Reinforcement Bars, Epoxy Coated	Pound	26500	5850	32350
Steel Railing, Type T1	Foot	200	-	200
Furnishing Steel Piles HP10X42	Foot	-	338	338
Driving Piles	Foot	-	198	198
Test Pile Steel HP10X42	Each	-	2	2
Name Plates	Each	1	-	1
Waterproofing Membrane System	Sq. Yd.	344	-	344
Portland Cement Mortar Fairing Course	Foot	1000	-	1000
Geocomposite Wall Drain	Sq. Yd.	-	56	56
Pipe Underdrains for Structures 4"	Foot	-	135	135
Setting Piles in Rock	Each	-	7	7
Underwater Structure Excavation	Each	-	1	1
Protection - Location 1	Each	-	1	1



**WATERWAY INFORMATION**

Drainage Area= 9.13 mi.<sup>2</sup> Low Grade Elev.= 485.58 @ sta. 13+50

Flood	Freq. (Yr.)	Q C.F.S.	Opening ft. <sup>2</sup> Prop.	Nat. H.W.E.	Head - ft. Prop.	Headwater El. - ft. Prop.
10	1399	371.3	484.2	0.0	484.2	
Design	30	1872	401.3	484.6	0.0	484.6
	50	2149	436.4	485.1	0.0	485.1
Base	100	2471	441.0	485.1	0.0	485.1
Max. Calc.	500	3227	488.4	485.8	0.1	485.9

DESIGNED JKC  
CHECKED GAE  
DRAWN NV  
CHECKED JKC

**DESIGN SCOUR ELEVATION TABLE**

DESIGN SCOUR ELEVATION (ft)	W. ABUTMENT	PIER	E. ABUTMENT
	481.44	469.10	483.85

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

PRECAST UNITS

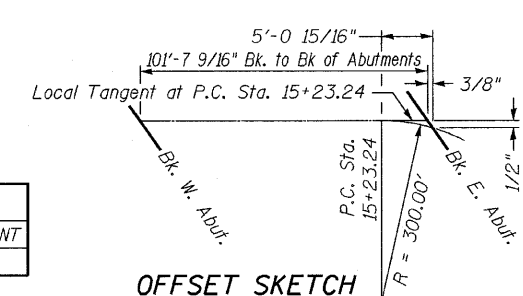
- f'c= 6,000 PSI
- f'ci= 5,000 PSI
- f's= 270,000 PSI (1/2 Dia. Low Lax Strand)
- fsj= 201,960 PSI (1/2 Dia. Low Lax Strand)
- fy= 65,000 PSI (Welded wire fabric)
- fy= 60,000 PSI (Reinf.)

FIELD UNITS

- f'c= 3,500 PSI
- fy= 60,000 PSI (Reinf.)

SEISMIC DATA

- S.P.C. A
- A= 0.04g
- S= 1.0



CLARK RUN  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
SEC. 6R, B  
F.A.U. STA. 14+72.54  
STR NO. 050-7201 LOADING HS20

NAME PLATE  
See Std. 515001

GENERAL PLAN AND ELEVATION  
LINCOLN STREET OVER CLARK RUN  
F.A.S. 1279 SEC. 6R, B  
LASALLE COUNTY  
STA. 14+72.54  
STRUCTURE NO. 050-7201

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	1279	6R, B	LA SALLE	190	123
		SN 050-7201	CONTRACT NO. 66547		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

CHAMLIN ASSOCIATES  
PERU ILLINOIS MORRIS