STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	444
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
29 SHEETS

* 10203.1 & 0312-708W) R-3 CONTRACT NO. 62108

GENERAL NOTES

THE FABRICATION OF THE STRUCTURAL STEEL AND BEARINGS FOR THIS BRIDGE WAS INCLUDED IN CONTRACT NO. 62898. ALL WORK SHOWN THAT IS RELATED TO THE FABRICATION IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

1. All dimensions are in millimeters (mm) except as noted.
2. Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm ϕ, unless otherwise noted.
3. Calculated mass of structural steel for the fabrication contract =201,010 kg for M 270M Grade 345 and 910 kg for M 270M Grade 250 and is provided for information only.
4. The same organic zinc rich primer / epoxy / urethane Paint System used for the fabrication contract shall be used for painting of structural steel left partially or fully unpainted in the fabrication contract due to construction requirements. This includes, but is not necessarily limited to, masked off connection surfaces and field installed fasteners. Any structural steel that was painted under the fabrication contract whose paint system may have been damaged during the fabrication contract shall be spot cleaned and touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures." The cost is included for payment under Erecting Structural Steel.
5. Field welding of construction accessories will not be permitted to the beams or girders.
6. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs, the cross frames and connection plates, and all splice plate material except fill plates.
7. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
8. Slope walls shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8 with a mass of 2.91 kg/m^2
9. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
10. The Contractor shall drive one steel HP310x79 test pile in a permanent location at the North and South Abutments and at the Pier as directed by the Engineer before ordering the remainder of piles.
11. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the top bearing plate, shall be provided for each bearing and placed as detailed.
12. Bridge Seat Sealer shall be applied to the seat area of the South and North Abutments, including future widening.
13. When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
    1. At least 72 hours shall have elapsed from the end of the previous pour.
    2. The concrete strength shall have attained a minimum flexural strength of 4.5 MPa or a minimum compressive strength of 24 MPa.
14. All construction joints shall be bonded.
15. Protective shield quantity calculated is based upon I-80 construction being completed before the start of SB IL394 construction. Protective shield quantity to be verified in the field.
16. The construction of Ramp G Bridge (SN 016-2804) might be completed before the construction of SB IL394 Bridge (SN 016-2796). Due to the limited headroom some of the piles at North Abutment might require special pile driving equipment and multiple splices in the piles. The Splices must be full moment carrying splices with a min. splice length of 3 meters and their cost will be included in the unit price bid for "Driving Steel Piles". The requirements and details of the splices shall be in accordance with the Standard Specifications Art. 512.05(b) and Construction Memorandum No. 00-44, Effective May 5, 2000. Please note that this note overrides the requirements in the Standard Specifications regarding the minimum splice length of 8 meters and a maximum of one preplanned splice per pile.
17. The existing structural steel coating may contain lead based paint. The Contractor should take appropriate precautions to deal with the presence of lead on this project. No additional compensation will be made to properly dispose of items containing lead.
18. Anchor bolts shall be set before bolting cross frames over the supports.
19. The stability of the partially erected structural steel is the Contractor's responsibility during all phases of construction. The Contractor shall submit for review and approval by the Engineer an erection plan with calculations for the erection of the structural steel. The plan must address as a minimum subassembly of the girders, erecting of the girders, placement of cross frames, bolting of cross frames, and removal of temporary supports. See Special Provisions for "Erecting Structural Steel". The cost of this work is included in the pay item "Erecting Structural Steel."

DESIGNED	MEA
CHECKED	MAS
DRAWN	LK
CHECKED	MAS/MEA

LK 0:12
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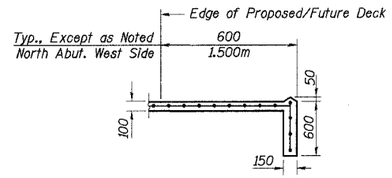
INDEX OF DRAWINGS



SECTION A-A

(For Location of Section A-A See Sheet No.1 of 29)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu M	---	185	185
Structure Excavation	Cu M	---	667	667
Concrete Structures	Cu M	---	290.0	290.0
Concrete Superstructure	Cu M	318.3	5.3	323.6
Controlled Low-Strength Material	Cu M	---	16.2	16.2
Bridge Deck Grooving	Sq M	1,153	---	1,153
Protective Coat	Sq M	1,369	29	1,398
Erecting Structural Steel	L Sum	0.11	---	0.11
Stud Shear Connectors	Each	4,752	---	4,752
Reinforcement Bars, Epoxy Coated	kg	58,720	20,110	78,830
Slope Wall 100 mm	Sq M	---	1,630	1,630
Furnishing Steel Piles HP310x79	Meter	---	1,650	1,650
Driving Steel Piles	Meter	---	1,650	1,650
Test Pile Steel HP310x79	Each	---	3	3
Name Plates	Each	---	---	1
Drainage Scuppers, DS-11	Each	1	---	1
Strip Seal Expansion Joint Assembly	Meter	29.4	---	29.4
Erecting Elastomeric Bearing Assembly, Type I	Each	---	12	12
Bridge Seat Sealer	Sq M	---	32	32
Bar Splicers	Each	---	98	98
Removal of Existing Structure No. 1	Each	---	---	1
Protective Shield	Sq M	562	---	562
Furnishing and Erecting Structural Steel	kg	190	---	190

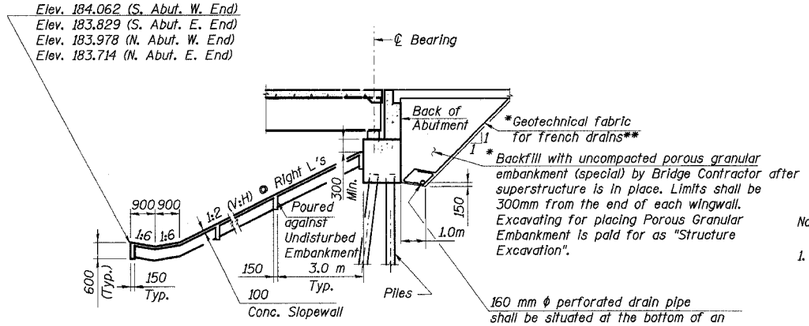
Bill of Material Notes:

1. For Splices of Steel Piles, see General Notes.
2. For Protective Shield, see General Notes.

STATION 440+193.335
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. (0203.1 & 0312-708W) R-3
LOADING MS18
STR. NO. 016-2796

NAME PLATE

See Std. 515001



*Behind abutment extension for future widening, place to top of lean concrete encasement.

**Cost to be included in the item "Porous Granular Embankment (Special)".

SECTION B-B

(N. Abut. Shown; S. Abut. Similar)

Horizontal Dimensions Shown at Right Angles (For Location of Section B-B, see Sheet No. 1 of 29)

Notes:

1. All dimensions are in millimeters (mm) except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

GENERAL NOTES, QUANTITIES & DETAILS

SB ILLINOIS ROUTE 394 OVER INTERSTATE 80
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+193.335 STRUCTURE NO. 016-2796

DATE 07/18/05
SCALE ---

HNTB