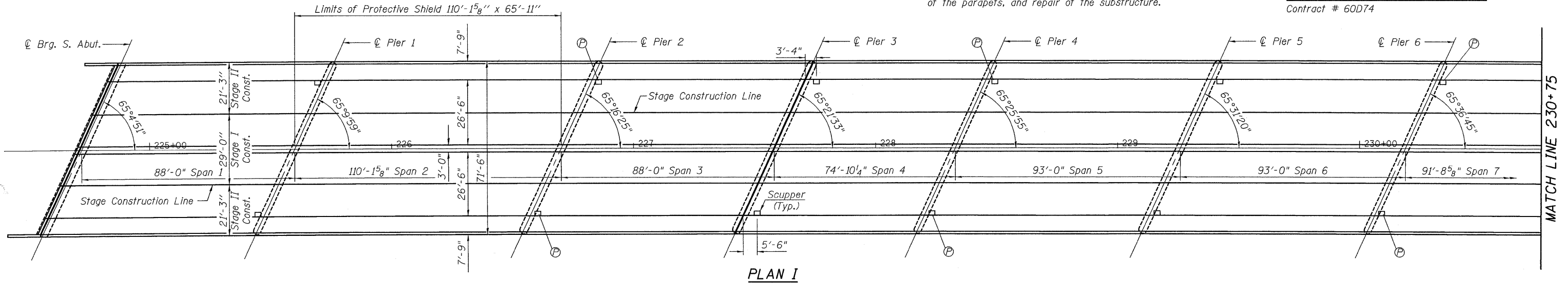


The existing structure was built in 1976. It is a 28 span continuous structure with steel plate girders. The substructure consists of open stub abutments and reinforced column concrete piers. The rehabilitation work will be done utilizing stage construction.

The proposed improvements consist of hydroscarifying the deck, deck slab repairs, replacing the existing expansion joints, removing the longitudinal joint, replacing the existing expansion bearings at the abutments and piers, construction of a latex concrete overlay, repair of the parapets, and repair of the substructure.

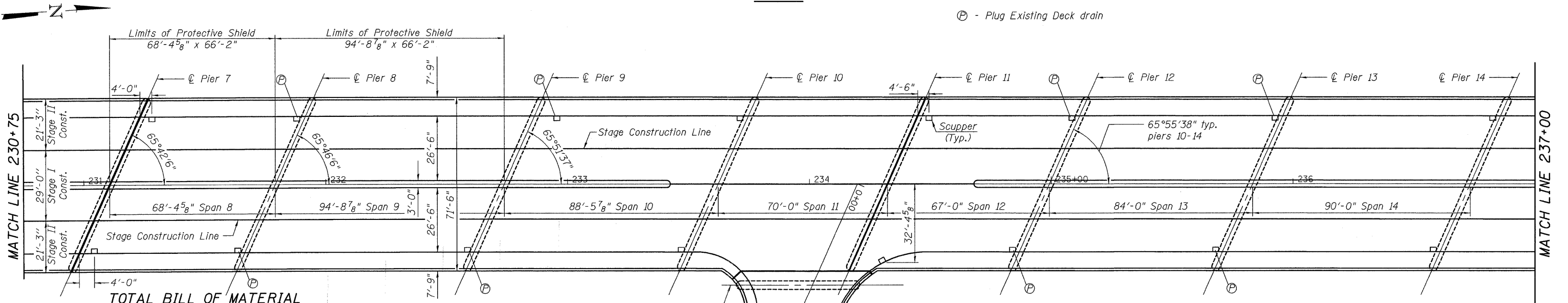
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2943	1212.8 -I-1	Cook	51	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 60D74



PLAN I

Ⓟ - Plug Existing Deck drain



PLAN II

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	14,500		14,500
Concrete Removal	Cu. Yd.	717.3		717.3
Bridge Deck Hydro-Scarification, 3/4"	Sq. Yd.	14,500		14,500
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	30		30
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	14,500		14,500
Jack and Remove Existing Bearings	Each	164		164
Anchor Bolt, 1/4"	Each	328		328
Elastomeric Bearing Assembly, Type I	Each	42		42
Elastomeric Bearing Assembly, Type II	Each	122		122
Furnishing and Erecting Structural Steel	Pound	22,920		22,920
Preformed Joint Strip Seal	Foot	389		389
Modular Expansion Joint, 6"	Foot	229		229
Modular Expansion Joint-Swivel, 6"	Foot	79		79
Concrete Superstructure	Cu. Yd.	763.2		763.2
Protective Shield	Sq. Yd.	2480		2480
Protective Coat	Sq. Yd.	2126		2126
Bridge Deck Grooving	Sq. Yd.	13,652		13,652
Reinforcement Bars, Epoxy Coated	Pound	110,140		110,140
Bar Splacers	Each	336		336
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	746	1767	2513
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.		16	16
Temporary Shoring and Cribbing	Each		22	22
Silicone Joint Sealer	Foot	125		125
Drainage Scupper, DS-12	Each	1		1
Plug Existing Deck Drains	Each	26		26
Adjusting Drainage Scuppers, Type B	Each	27		27

INDEX OF SHEETS

- General Plan - I
- General Plan - II
- Elevation
- Typical Cross Sections with Staging
- Expansion Joint Removal at Abutments
- Expansion Joint Replacement at Abutments
- Expansion Joint Removal at Piers 3, 15 & 18
- Expansion Joint Replacement at Piers 3, 15 & 18
- Expansion Joint Removal at Piers 7, 11, 21 & 24
- Expansion Joint Replacement at Piers 7, 11, 21 & 24
- Expansion Joint Rehabilitation Details I
- Expansion Joint Rehabilitation Details II
- Preformed Joint Strip Seal at Abutments and Piers 3, 15 & 18
- Modular Joint at Piers 7, 11 & 21
- Modular Joint at Pier 24
- Modular Joint Details
- Bar Splicer Assembly Details
- Longitudinal Joint and Median Details
- Longitudinal Joint and Median Plan - I
- Longitudinal Joint and Median Plan - II
- Longitudinal Joint and Median Plan - III
- Longitudinal Joint and Median Plan - IV
- Drainage Scupper, DS-12
- Adjusting Drainage Scupper Details

INDEX OF SHEETS (CONT'D)

- Bearing Replacement Details - I
- Bearing Replacement Details - II
- Deck and Parapet Repair Plan - I
- Deck and Parapet Repair Plan - II
- Pier 3 Repairs
- Pier 7 Repairs
- Pier 11 Repairs
- Pier 15 Repairs
- Pier 18 Repairs
- Pier 21 Repairs
- Pier 24 Repairs

See the following sheet for General Notes and Drain Plugging Detail.

DESIGN SPECIFICATIONS

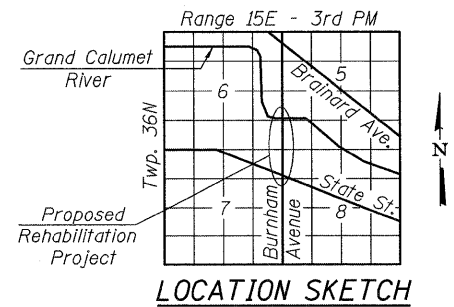
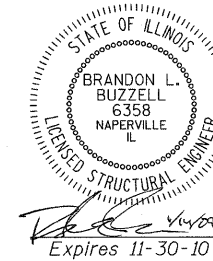
2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)



ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN - I
BURNHAM AVE OVER STATE ST, R.R. & RIVER
FAU RTE 2943 SECTION 1212.8-I-1
COOK COUNTY
STATION 231+79.04
STRUCTURE NO. 016-0806

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, IL 60187

DATE: 1-14-2009

DRAWN BY LM
CHECKED BY WJW