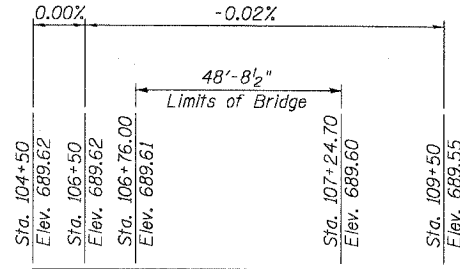


INDEX OF SHEETS

- S-1. General Plan and Elevation
- S-2. General Notes, Bill of Material, and Index of Sheets
- S-3. Top of Deck Slab Elevations
- S-4. Deck Plan and Cross Sections
- S-5. Parapet Elevations and Details
- S-6. Steel Framing Plan
- S-7. Beam Elevation and Details and Bearing Details
- S-8. Anchor Bolt Details
- S-9. Abutment Plan and Elevation
- S-10. Abutment Details
- S-11. Retaining Wall Plan and Elevation
- S-12. Pile Details
- S-13. Soil Borings

TOTAL BILL OF MATERIAL

CODE NO.	DESCRIPTION	UNIT	TOTAL
20900110	Porous Granular Backfill	Cu. Yds.	78
28100107	Stone Rip Rap CL A4	Sq. Yds.	90
28200200	Filter Fabric	Sq. Yds.	90
50101600	Removal of Existing Superstructures	L. Sum.	1
50102400	Concrete Removal	Cu. Yds.	36.8
50200100	Structure Excavation	Cu. Yds.	275
50300100	Floor Drains	Each	8
50300225	Concrete Structures	Cu. Yds.	115.8
50300255	Concrete Superstructures	Cu. Yds.	66.3
50300260	Bridge Deck Grooving	Sq. Yds.	193
50300300	Protective Coat	Sq. Yds.	65
50301245	Formed Concrete Repair (Depth <= 5")	SF	5
50500105	Furnishing and Erecting Structural Steel	L. Sum	1
50500505	Stud Shear Connectors	Each	1008
50800205	Reinforcement Bars (Epoxy Coated)	Pound	26,690
51201100	Furnishing Metal Pile Shells, 14"	Foot	408
51202600	Driving and Filling Shells	Foot	408
51500100	Name Plates	Each	1
59000100	Epoxy Crack Sealing	Foot	65
59100100	Geocomposite Wall Drain	Sq. Yds.	67
60100915	Pipe Drain, 6"	Foot	67

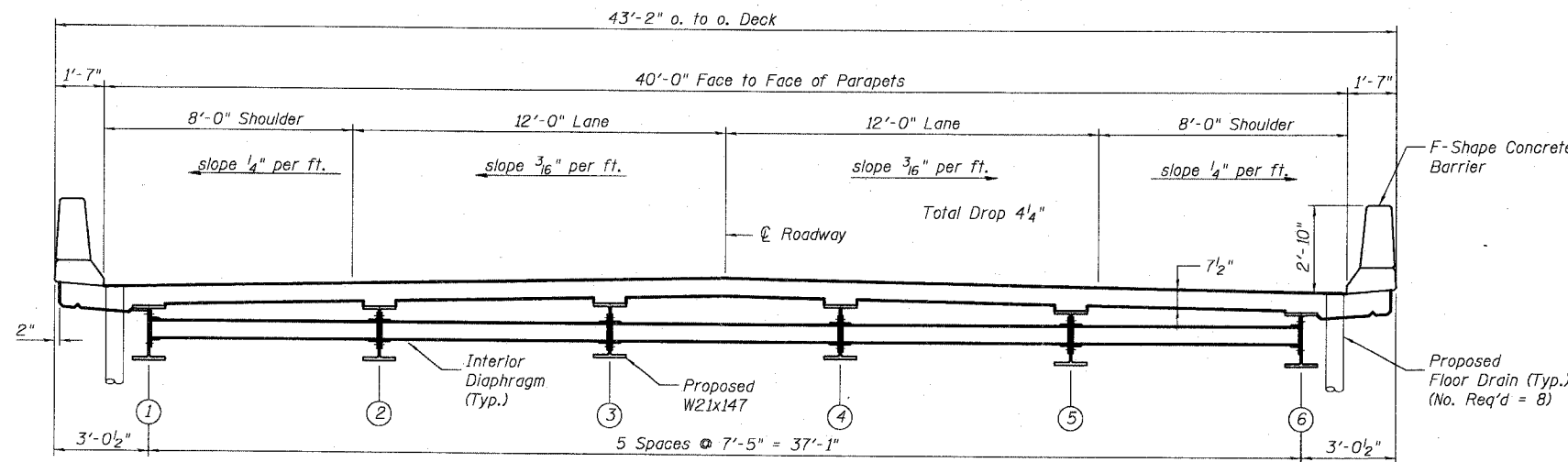


PROFILE GRADE
(along PGL)

GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts 3/4" Dia., open holes 15/16" unless otherwise noted.
2. Calculated weight of Structural Steel (Grade 50) = 41,785 pounds.
3. Calculated weight of Structural Steel (Grade 36) = 1,588 pounds.
4. All Structural Steel shall be AASHTO M 270 Grade 50 except diaphragms, bearing plates, high strength bolts, and anchor bolts.
5. Field welding of construction accessories will not be permitted to 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 wide flange beams.
7. Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
9. Backfill shall be placed behind the abutment after the superstructure has been poured and the false work removed. See Article 502.10 of the Standard Specifications.
10. The back face of the Abutment Extensions, their Wingwalls, and Retaining Walls shall be waterproofed according to Article 503.18 of the Standard Specifications.
11. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of false work, in addition to allowance for dead load deflection.
12. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering material. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
13. The contractor shall drive one (1) steel test pile in a permanent location as directed by the Engineer before ordering the remainder of the piles.
14. Bridge Seat Sealer shall be applied to the seat area of the abutments.
15. Excavation of three (3) feet behind existing abutment walls and installation of temporary bracing shall be completed before removing the existing superstructure.
16. Cover from the face of concrete to reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
17. Reinforcement bending details shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures." ACI 315, latest edition.
18. Reinforcement Bars designated "(E)" shall be epoxy coated.
19. Reinforcement bar splices shall be in accordance with the following table unless shown otherwise on the drawings.

Size	Basic Lap	Top Bars Lap
#4	1'-8"	2'-5"
#5	2'-2"	3'-0"
#6	2'-7"	3'-7"
#7	3'-5"	4'-10"
#8	4'-6"	6'-4"
#9	5'-9"	8'-1"



TYPICAL CROSS SECTION
Not to Scale

DESIGNED	MGH
CHECKED	RGD
DRAWN	WJH
CHECKED	NRF

SMITH ENGINEERING CONSULTANTS, INC.
CIVIL, STRUCTURAL, ELECTRICAL AND SURVEYING
www.smithengineering.com
2601 W. Main Street, Suite 200, Chicago, IL 60640

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
General Notes, Bill of Material, and Index of Sheets
Harlem Avenue Over Black Walnut Creek
Will County
Section 139B-MFT
SN. 099-3091
DATE 5-26-2005