

Contract #83984

**GENERAL NOTES**

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 7/8-in.  $\phi$ , holes 15/16-in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel:  
Grade 50W = 297,382 lbs.  
Grade 36 = 2,200 lbs.
- All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 36.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments, piers and M.S.E. walls.
- The interior of the box girder (Unit 4) shall receive one coat of Inorganic Zinc Rich Primer. See Special Provisions.
- Structural steel shall only be painted for a distance of 7.5 ft. each way from the deck joints. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- All exposed structural steel of the bearings shall be cleaned and shop painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 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.

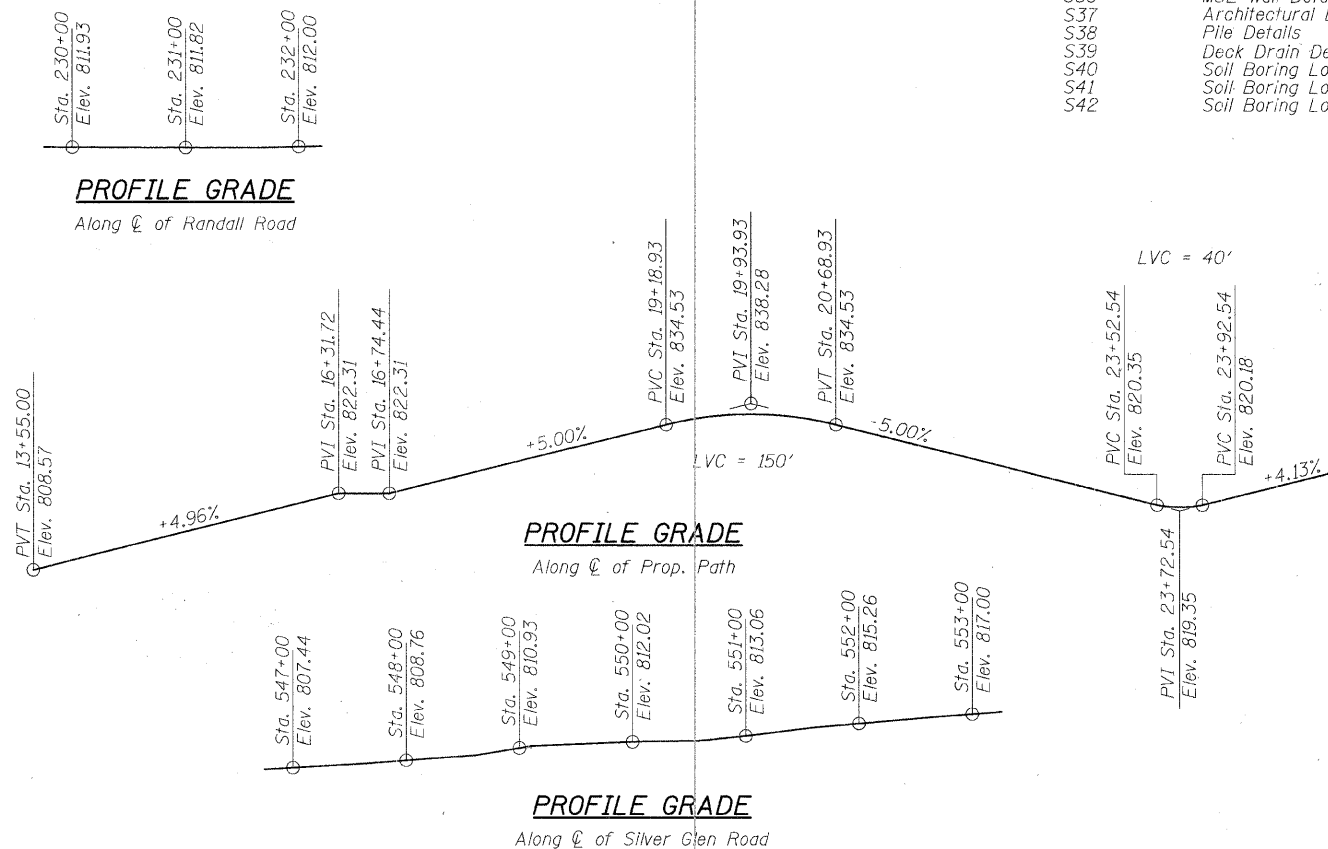
**INDEX OF SHEETS**

BRIDGE SHEET NO.	TITLE
S1	General Plan & Elevation
S2	Bridge Data
S3	Substructure Layout I
S4	Substructure Layout II
S5	Top of Slab Elevations
S6	Top of Slab Elevations Units 1 and 3
S7	Top of Slab Elevations Unit 4
S8	Top of Slab Elevations Unit 5
S9	Deck Plan and Cross Section Units 1 and 3
S10	Deck Plan and Details Unit 2
S11	Deck Beams and Details Unit 2
S12	Deck Plan and Cross Section Unit 4
S13	Deck Plan and Cross Section Unit 5
S14	Deck Details
S15	Bridge Railing Plan
S16	Bridge Railing Details I
S17	Bridge Railing Details II
S18	Structural Steel Unit 1
S19	Structural Steel Unit 3
S20	Structural Steel Details Unit 3
S21	Structural Steel Unit 4
S22	Structural Steel Details Unit 4
S23	Structural Steel Unit 5
S24	Structural Steel Details Unit 5
S25	Bearing Details I
S26	Bearing Details II
S27	West Abutment Plan and Details
S28	Piers 1 & 4
S29	Piers 2 & 3
S30	Piers 5 & 6
S31	Piers 7 & 8
S32	Piers 9 & 10
S33	East Abutment Plan and Details
S34	West MSE Wall Plan and Elevation
S35	East MSE Wall Plan and Elevation
S36	MSE Wall Details
S37	Architectural Details
S38	Pile Details
S39	Deck Drain Details
S40	Soil Boring Logs I
S41	Soil Boring Logs III
S42	Soil Boring Logs III

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd	---	590	590
Concrete Structures	Cu Yd	---	156	156
Concrete Superstructure	Cu Yd	231.8	---	231.8
Form Linear Textured Surface	Sq Ft	---	2,177	2,177
Furnishing and Erecting Structural Steel	L. Sum	1	---	1
Stud Shear Connectors	Each	3,000	---	3,000
Reinforcement Bars, Epoxy Coated	Pound	43,990	31,730	75,720
* Steel Railing (Special)	Fcot	1,493	---	1,493
Bridge Fence Railing (Sidewalk)	Fcot	348	---	348
Furnishing Metal Shell Piles 12" x 0.250"	Fcot	---	2,070	2,070
Driving Piles	Each	---	2,070	2,070
Test Pile Metal Shells	Each	---	2	2
Pile Shoes	Each	---	48	48
Name Plates	Each	1	---	1
Elastomeric Bearing Assembly, Type I	Each	6	---	6
Elastomeric Bearing Assembly, Type II	Each	8	---	8
Elastomeric Bearing Assembly, Type III	Each	2	---	2
Anchor Bolts, 1"	Each	30	---	30
Anchor Bolts, 1 1/4"	Each	12	---	12
Anchor Bolts, 1 1/2"	Each	4	---	4
Concrete Sealer	Sq Ft	---	737	737
* Mechanically Stabilized Earth Retaining Wall	Sq Ft	---	3,233	3,233
* Portland Cement Concrete Sidewalk 6 Inch Special	Sq Ft	---	2,093	2,093
* Staining Concrete Structures	Sq Yd	---	320	320
* Drainage System	Each	1	---	1

\* Denotes Special Provision is Required



DESIGNED	MJD
CHECKED	AEU
DRAWN	MJD
CHECKED	AEU

**RHA&A**  
Robert H. Anderson & Associates, Inc.  
Consulting Engineers  
License No. 184-005281

**BRIDGE DATA**  
PEDESTRIAN BRIDGE OVER RANDALL ROAD  
AT SILVER GLEN ROAD  
FAU 2505, SECTION 94-P4008-01-BR  
KANE COUNTY  
STRUCTURE NO. 045-9000  
DATE: OCTOBER 31, 2008