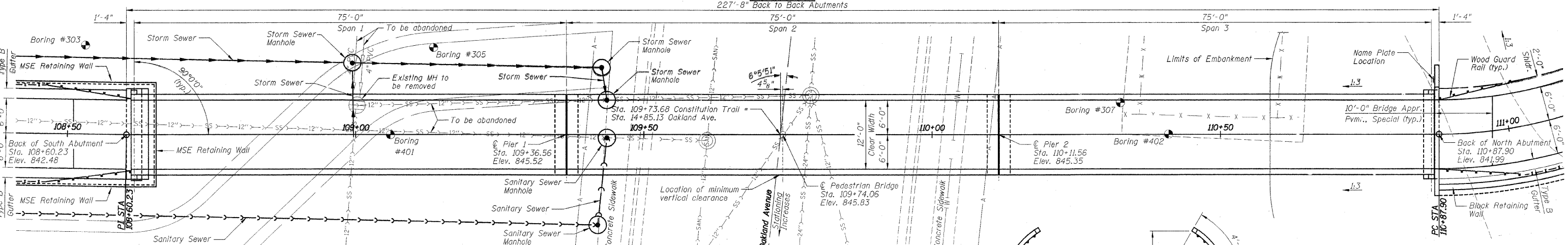


**ELEVATION**



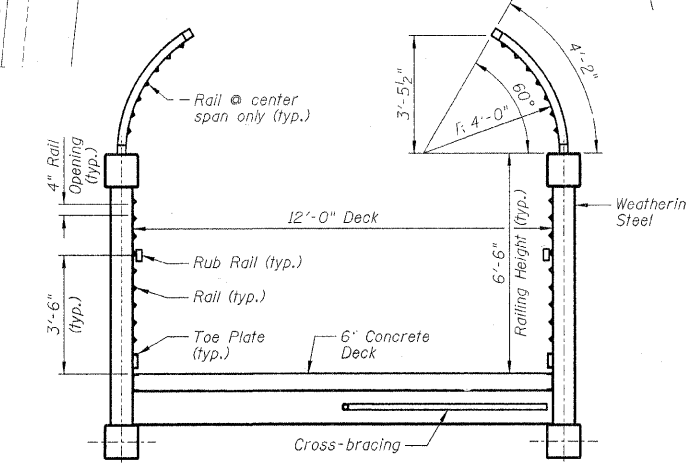
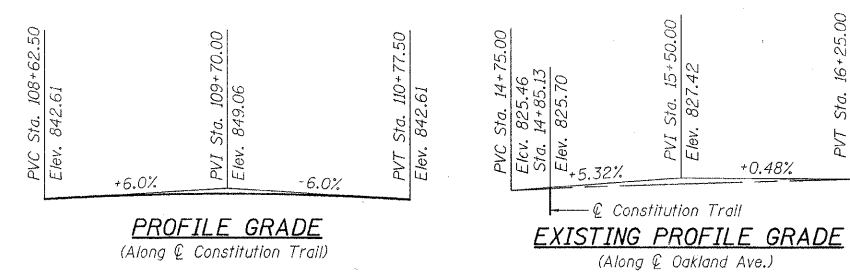
**PLAN**

**SEISMIC DATA**  
 Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.044  
 Site Coefficient (S) = 1.0

**DESIGN SPECIFICATIONS**  
 1997 AASHTO Guide Specifications  
 For Design of Pedestrian Bridges

**LOADING**  
 Uniform Live Load = 65 psf (primary members)  
 Uniform Live Load = 85 psf (secondary members)  
 Vehicle Load = H-5 Truck

**DESIGN STRESSES**  
**FIELD UNITS**  
 f'c = 4,000 psi (Cast-In-Place)  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (Structural Steel)  
 (Use Weathering Steel) Grade 50W



**SECTION AT CENTER OF BRIDGE**

**INDEX TO SHEETS**

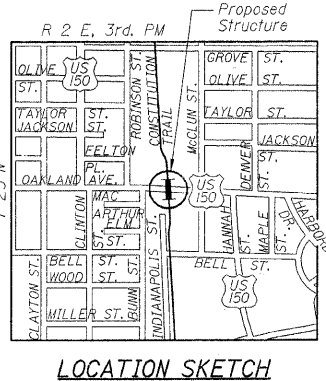
SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	SOUTH ABUTMENT
B3	NORTH ABUTMENT
B4	PIERS
B5	HP PILE DETAILS
B6-B7	BRIDGE BORING LOGS

- GENERAL NOTES**
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted.
  - 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. See Special Provisions.
  - All reinforcement bars shall be epoxy-coated.
  - Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
  - The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
  - 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.
  - The Contractor is to field locate all utilities before starting construction.
  - Cast in place Class S1 Concrete shall be used throughout except for the superstructure (Deck), which shall be Class BD Concrete.
  - The 14-day compressive strength is f'c = 4,000 psi. Concrete clear cover shall be 2" unless otherwise shown.
  - The concrete slab shall be finished in accordance with Article 503.17 of the Standard Specifications and shall be poured in one continuous operation.
  - This project shall be constructed in accordance with IDOT Standard Specifications for Road and Bridge Construction adopted January 1, 2007.
  - See Sheets B6 and B7 for boring data.
  - Design of the bridge superstructure shall be sealed and signed by a Structural Engineer licensed in the State of Illinois.
  - Furnishing and erection of the steel reinforcement in the concrete bridge deck shall be included in the cost of Concrete Superstructure.
  - Contractor to coordinate dimensions with actual bridge superstructure provided before starting construction. Notify owners representative of any differences.
  - The Structural Engineer's seal applies to the bridge substructure only.
  - Piles shall be driven through 18" diameter precored holes extending to the elevation noted on the plans according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

**NOTES:**  
 See sheets SW1 to SW4 for MSE walls & sheets NW1 to NW5 for Block retaining walls.

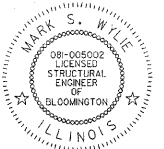
**TOTAL BRIDGE BILL OF MATERIALS**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.		17.7	17.7
Concrete Encasement	Cu. Yd.		16.6	16.6
Reinforcement Bars, Epoxy Coated	Pound		2760	2760
Furnishing Steel Piles HP 10 x 42	Foot		620	620
Driving Piles	Foot		620	620
Test Pile Steel HP 10 x 42	Each		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Concrete Sealer	Sq. Ft.		144	144
Pedestrian Truss Superstructure	Sq. Ft.	2714		2714
Clear Protective Coating For Concrete	Sq. Ft.		415	415



**LOCATION SKETCH**

I certify that to the best of my knowledge, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".



Mark S. Wylie Date 3/30/09  
 MARK S. WYLIE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-005002  
 Exp. Date 11/30/10

CONSTITUTION TRAIL OVER  
 U.S. 150/OAKLAND AVENUE  
 BUILT 200... BY  
 CITY OF BLOOMINGTON  
 STATION 109+73.68  
 LOADING HS5  
 STR. NO. 057-6340

CITY OF BLOOMINGTON, ILLINOIS  
 SECTION 05-00333-00-BT

GENERAL PLAN AND ELEVATION  
 TRAIL PHASE II OVER  
 OAKLAND AVE. S.N. 057-6340

**NAME PLATE**  
 See Std. 515001

DRAWN BY DJM/JTC	FILE NO. 24-B173
DATE 01/30/09	BOOK NO. 2752
CHECKED BY MSW	SHEET NO. 24 OF 56