

**INDEX OF DRAWINGS**

- 1 General Plan and Elevation
- 2 General Notes and Index of Drawings
- 3 Foundation Layout
- 4 South Abutment
- 5 Precast Backwall Reinforcement
- 6 North Abutment
- 7 North Abutment Reinforcement
- 8 Precast Backwall Details
- 9 Bar Splicer Assembly Details
- 10 Framing Plan
- 11 Superstructure Details
- 12 Deck Layout and Details
- 13 Deck Drainage Details
- 14 Railing Layout and Details
- 15 Fixed Bearing Details
- 16 Expansion Bearing Details
- 17 Suggested Staging Concept
- 18 Suggested Staging Sequence
- 19 Temporary Staging Details
- 19A Temporary Staging Details
- 20 Jump Span Outage - 10 Hours Suggested Staging
- 21 Bridge Outage - 24 Hours Suggested Staging
- 22 Bridge Outage - 24 Hours Suggested Staging
- 23 General Plan View - Retaining Walls
- 24 Typical Wall Section
- 25 General Plan & Elevation Str. No. 016-7722
- 26 Soldier Pile Plan & Elevation I Str. No. 016-7722
- 27 Soldier Pile Plan & Elevation II Str. No. 016-7722
- 28 Soldier Pile Plan & Elevation III Str. No. 016-7722
- 29 Concrete Facing I Str. No. 016-7722
- 30 Concrete Facing II Str. No. 016-7722
- 31 Concrete Facing III Str. No. 016-7722
- 32 General Plan & Elevation Str. No. 016-7723
- 33 Soldier Pile Plan & Elevation I Str. No. 016-7723
- 34 Soldier Pile Plan & Elevation II Str. No. 016-7723
- 35 Soldier Pile Plan & Elevation III Str. No. 016-7723
- 36 Concrete Facing I Str. No. 016-7723
- 37 Concrete Facing II Str. No. 016-7723
- 38 General Plan & Elevation Str. No. 016-7724
- 39 Soldier Pile Plan & Elevation I Str. No. 016-7724
- 40 Soldier Pile Plan & Elevation II Str. No. 016-7724
- 41 Soldier Pile Plan & Elevation III Str. No. 016-7724
- 42 Concrete Facing I Str. No. 016-7724
- 43 Concrete Facing II Str. No. 016-7724
- 44 Concrete Facing III Str. No. 016-7724
- 45 General Plan & Elevation Str. No. 016-7725
- 46 Soldier Pile Plan & Elevation I Str. No. 016-7725
- 47 Soldier Pile Plan & Elevation II Str. No. 016-7725
- 48 Soldier Pile Plan & Elevation III Str. No. 016-7725
- 49 Concrete Facing I Str. No. 016-7725
- 50 Concrete Facing II Str. No. 016-7725
- 51 Concrete Facing III Str. No. 016-7725
- 52 General Plan & Elevation Str. No. 016-7726
- 53 Soldier Pile Plan & Elevation Str. No. 016-7726
- 54 Concrete Facing Str. No. 016-7726
- 55 Typical Concrete Facing
- 56 Aluminum Railing, Type L Detail
- 57 Soil Boring Plan and Profile
- 58 Soil Boring Logs
- 59 Soil Boring Logs
- 60 Soil Boring Logs
- 61 Soil Boring Logs
- 62 Soil Boring Logs
- 63 Soil Boring Logs
- 64 Soil Boring Logs
- 65 Soil Boring Logs

**GENERAL NOTES**

**CAST-IN-PLACE CONCRETE**

All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

9" PVC waterstops shall be provided in all vertical or horizontal construction joints, unless noted otherwise. Waterstops shall be PVC 9"x3/8" Hollow Bulb (Bulb 3/4" I.D., 1 1/2" O.D.) continuous across joint.

Use of Flyash in concrete is not permitted for any portion of the Railroad Structure.

**REINFORCING BARS**

Reinforcement bars, including epoxy coated reinforcement bars, shall conform to the requirements of ASTM A615, A616 or A185 Grade 60, deformed bars.

Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

Reinforcement bar bending dimensions are out to out.

Reinforcement bending details shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures," ACI 315, latest edition.

Reinforcement bars designated "(E)" shall be epoxy coated.

Reinforcement bar splices for f'c=4,000 psi concrete shall be in accordance with the AREMA Manual for Railway Engineering unless shown otherwise on the drawing.

Lap Splices		
Bar Size	Minimum Lap (in.)	Min. Development Length (in.)
#4	24	14
#5	29	17
#6	33	21
#7	45	26
#8	59	35
#9	74	44
#10	94	55
#11	116	68

Top bar lap splices and development length shall be multiplied by 1.4.

**STRUCTURAL STEEL**

All structural steel shall be ASTM A709 Grade 50, except where otherwise noted. Notch toughness resistant (N.T.R.) steel elements are designated on the plans.

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, webs and all splice plate material of the steel girders. These requirements conform to AREMA Table 15-1-2, Zone 2.

Fasteners shall be high strength bolts ASTM A325 7/8" diameter, holes 15/16" diameter, unless otherwise noted. Turn-of the Nut method to be used for installation of bolts.

Calculated weight of Structural Steel = 899,300 pounds.

Field welding will not be permitted to the steel bridge beams or girders unless shown on the plans. Field welding in other areas will be permitted only when approved by the Engineer.

**CONSTRUCTION**

Do not scale dimensions for construction, scale applies only to full size drawings.

No construction joints except those shown on the plans will be allowed unless approved by the Engineer.

Temporary sheeting, bracing or cofferdams shall be constructed as required for the excavation to protect the adjacent areas from settling or falling into the excavated areas. This work, shall be incidental to Structure Excavation, except where indicated otherwise.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

An application of sealant shall be applied to the surfaces of all abutment seats.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8". Adjustment shall be made either by grinding the surface or by shimming the bearing. One 1/8" adjusting shim of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Elevations shown on the plans are based on available information. Contractor shall verify elevations prior to erection and any discrepancies shall be brought to the attention of the Engineer.

Plan dimensions and details relative to existing features 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 of materials. 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 bid for the work.

Construction joints shown in the retaining walls and retaining wall caps and face walls shall be placed in an alternating sequence utilizing the construction and expansion joints.

The inorganic-zinc rich acrylic/acrylic paint system shall be used for shop and field painting of structural steel except where otherwise noted. The color of the acrylic finish coat shall be as determined by the Engineer.

Where protective surface treatment is specified, it shall conform to the requirements of Section 503.19 of the Standard Specifications. Measurement and payment shall conform to the requirements of Section 503 of the Standard Specifications, under the item "Protective Coat."

Allowable soil bearing pressure at abutments = 3.5 tons per square foot.

Construction shall be in accordance with IDOT Standard Specifications for Road and Bridge Construction and Special Provisions, and CSXT Specifications contained there in.

Waterproofing for deck and for backface of abutment precast backwalls shall conform to applicable sections of AREMA Manual for Railway Engineering, Chapter 8, Part 29. Extend waterproofing at backwall a minimum of 18" beyond vertical and horizontal joints.

Surface mounted Reglets shall be galvanized steel conforming ASTM A924/A924A. Fasteners shall be compatible and galvanized. Provide polyurethane or silicone type Sealant, location as shown on sheet 106.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
CONCRETE STRUCTURES	CU. YD.	28	2,364	2,392
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
STUD SHEAR CONNECTORS	EACH		8,521	8,521
UNTREATED TIMBER LAGGING	SQ FT		24,189	24,189
REINFORCEMENT BARS, EPOXY COATED	POUND	3,957	275,700	279,657
PRECAST CONCRETE BACKWALLS	CY YD		67	67
BAR SPLICERS	EACH		320	320
GEOCOMPOSITE WALL DRAIN	SQ. YD.		3,228	3,228
PROTECTIVE COAT	SQ. YD.		1,974	1,974
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		1,879	1,879
DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT		77,120	77,120
CONSTRUCTION OF JUMP SPANS	L SUM		1	1
TEMPORARY SOIL RETENTION SYSTEM	SQ FT		450	450
STRUCTURE EXCAVATION	CU YD		2,398	2,398
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD		545	545
MEMBRANE WATERPROOFING	SQ FT	5,230		5,230
FORM LINER TEXTURED SURFACE	SQ FT		28,800	28,800
BALLAST DRAINS	LIN FT	375		375
PEDESTRIAN RAIL (SPECIAL)	FOOT	150		150
NAME PLATE	EACH		1	1
ALUMINUM RAILING, TYPE L	LIN FT		1,700	1,700
FURNISHING SOLDIER PILES (W Section)	FOOT		7,361	7,361
STEEL BEARING ASSEMBLY	EACH		19	19
ANCHOR BOLTS 1 1/2 IN DIAMETER	EACH		76	76
ANCHOR BOLTS 1 1/4 INCH DIAMETER	EACH		38	38
SHEET METAL FLASHING	LIN FT	147		147

Item	Unit	Total
W21x101	Foot	1301
W21x147	Foot	352
W21x201	Foot	928
W21x282	Foot	1248
W21x302	Foot	3532
<b>Total</b>	<b>Foot</b>	<b>7361</b>

71ST. STREET  
 BUILT BY  
 VILLAGE OF BRIDGEVIEW  
 SEC 06-00050-00-GS  
 F.A.U. RTE. 1537 STA. 23+40  
 STR. NO. 016-7721 LOADING E80

**NAME PLATE**  
 See Std. 515001



USER NAME = floresg	DESIGNED - BMR	REVISED - 4/14/11 ADDENDUM A
PLOT SCALE = 0.083333' / in.	DRAWN - COM	REVISED -
PLOT DATE = 4/12/2011	CHECKED - DD	REVISED -
	DATE - 11/23/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND INDEX OF DRAWINGS**  
**STRUCTURE NO. 016-7721**

SCALE: NONE	SHEET NO. 2 OF 65 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT CRE-9003(709)
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537	06-00050-00-GS	COOK	209	96
			CONTRACT NO. 63556	