


Code Number	Item	Unit of Measure	Quantity
20100110	TREE REMOVAL (6-15 UNITS DIAMETER)	UNIT	364
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	220
20101000	TEMPORARY FENCE	FOOT	1400
20101700	SUPPLEMENTAL WATERING	UNIT	107
20200100	EARTH EXCAVATION	CU YD	3383
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	438
20400800	FURNISHED EXCAVATION	CU YD	675
20800150	TRENCH BACKFILL	CU YD	6
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	652
21101625	TOPSOIL FURNISH AND PLACE 6"	SQ YD	2725
Δ 25000200	SEEDING, CLASS 2	ACRE	2.25
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	204
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	204
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	204
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	10895
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000400	PERIMETER EROSION BARRIER	FOOT	2880
28100107	STONE RIPRAP, CLASS A4	SQ YD	(52)
28200200	FILTER FABRIC	SQ YD	(52)
35101400	AGGREGATE BASE COURSE, TYPE B	TON	165
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	35
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	655
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3207
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	60
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	360
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50	TON	172
42001300	PROTECTIVE COAT	SQ YD	69
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	300
42400800	DETECTABLE WARNINGS	SQ FT	40
48101200	AGGREGATE SHOULDERS, TYPE B	TON	98
50200100	STRUCTURE EXCAVATION	CU YD	(69.7)
50300225	CONCRETE STRUCTURES	CU YD	(59)
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	(6610)
51201400	FURNISHING STEEL PILES HP10X42	FOOT	(84)
51202305	DRIVING PILES	FOOT	(84)
51203400	TEST PILE STEEL HP10X42	EACH	2
51204650	PILE SHOES	EACH	(8)
51500100	NAME PLATES	EACH	1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	250
60200805	CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
67100100	MOBILIZATION	L SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	50.2
72900100	METAL POST - TYPE A	FOOT	68
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	95
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	43
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	105
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	227
Δ 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	10
Δ A2002520	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	14
Δ A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	14
Δ A2006720	TREE, QUERCUS MACROCARPA (BUR OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	15
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	438
X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	2128
X0350805	FOLD DOWN BOLLARDS	EACH	2
XX001472	WOOD BOLLARD	EACH	9
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	350
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Δ Z0077900	WOOD POST AND RAIL FENCE	FOOT	122

Δ SPECIALTY ITEM*

 ENGINEERING RESOURCE ASSOCIATES, INC. <small>CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS</small>	USER NAME = rtonner	DESIGNED - JR	REVISED - Δ --- 7-14-15
	FILE NAME = H:\P\1111\130814.00 DuPage River Tr & Bridge at River Rd\CAAD\General Notes.dwg	DRAWN - AJ	REVISED - ---
	PLOT SCALE =	CHECKED - JFM	REVISED - ---
	PLOT DATE = 6/18/2015	DATE - OCTOBER 2014	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	I3-P4015-00-BT	WILL	27	3
CONTRACT NO. 6IA76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

Structure No. 13-P4015-00-BT
 Sec. 13-P4015-00-BT
 Built 20
 Dupage River Trail
 Will County
 Loading H-10

NAME PLATE
 See Standard 515001

BILL OF MATERIAL - 2 ABUTS.

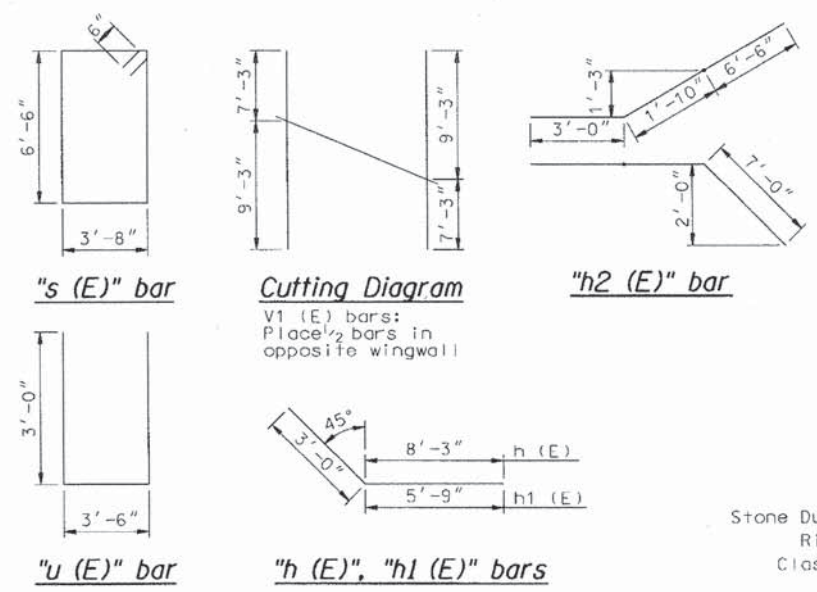
Bar	No.	Size	Length	Shape
a (E)	60	#6	10'-2"	
a ₁ (E)	22	#6	13'-5"	
h (E)	56	#6	11'-3"	
h ₁ (E)	4	#5	8'-9"	
h ₂ (E)	4	#5	11'-10"	
h ₃ (E)	4	#5	17'-6"	
p (E)	38	#8	17'-6"	
s (E)	32	#6	21'-4"	
u (E)	28	#5	9'-6"	
v (E)	40	#5	9'-0"	
v ₁ (E)	16	#5	16'-6"	
v ₂ (E)	40	#5	8'-2"	
Concrete Structures		Cu. Yds.	59.0	
Epoxy Coated Reinforcement Bars		Lbs.	6680	
Test Pile, Steel HP10x42		Each	2	
Steel Piles HP10x42 (Furnish & Drive)		Foot	37	
Pile Shoes		Each	2	
Name Plate		Each	1	
Stone Dumped Riprap Class 4A		Sq. Yd.	52.0	
Structure Excavation		Cu. Yds.	69.7	

Note: Bill of Material includes 2 Abutments and 2 Approach Slabs

PILE DATA

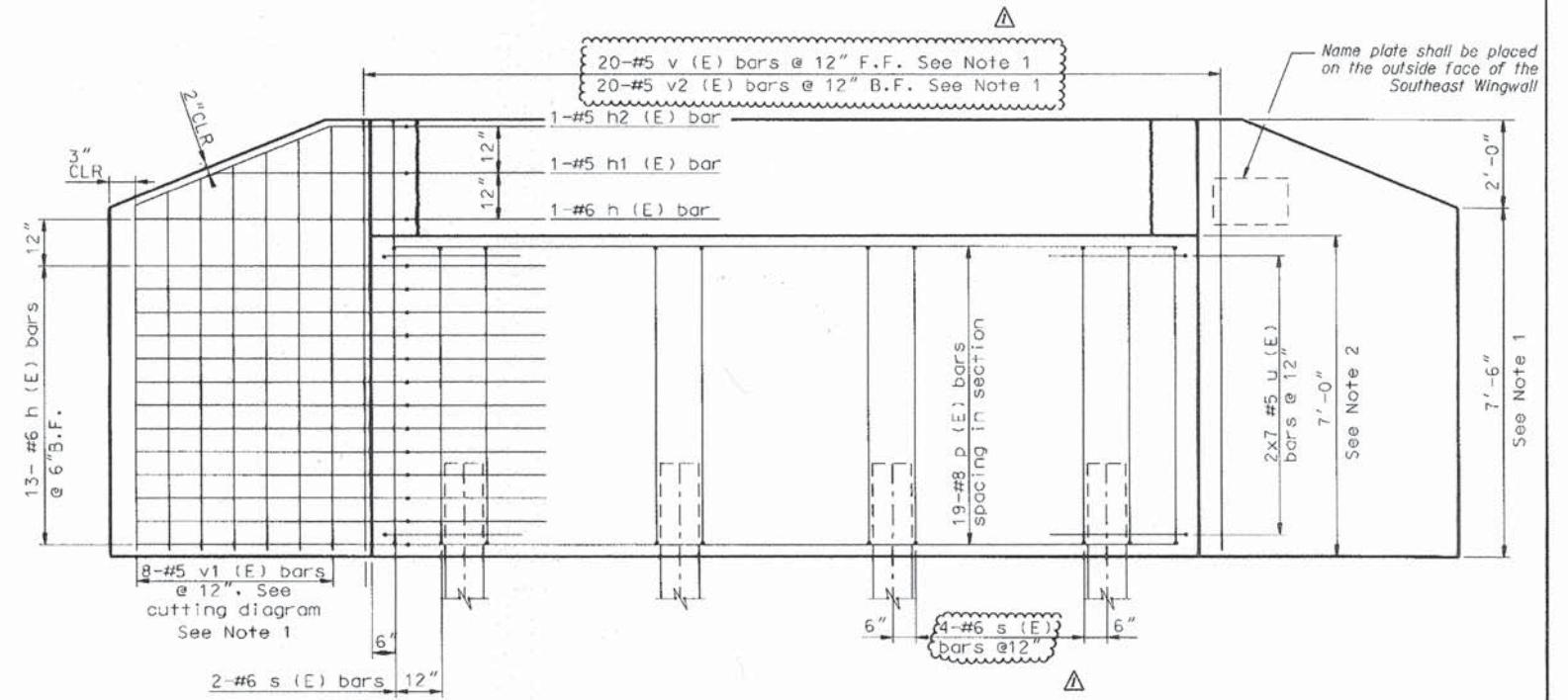
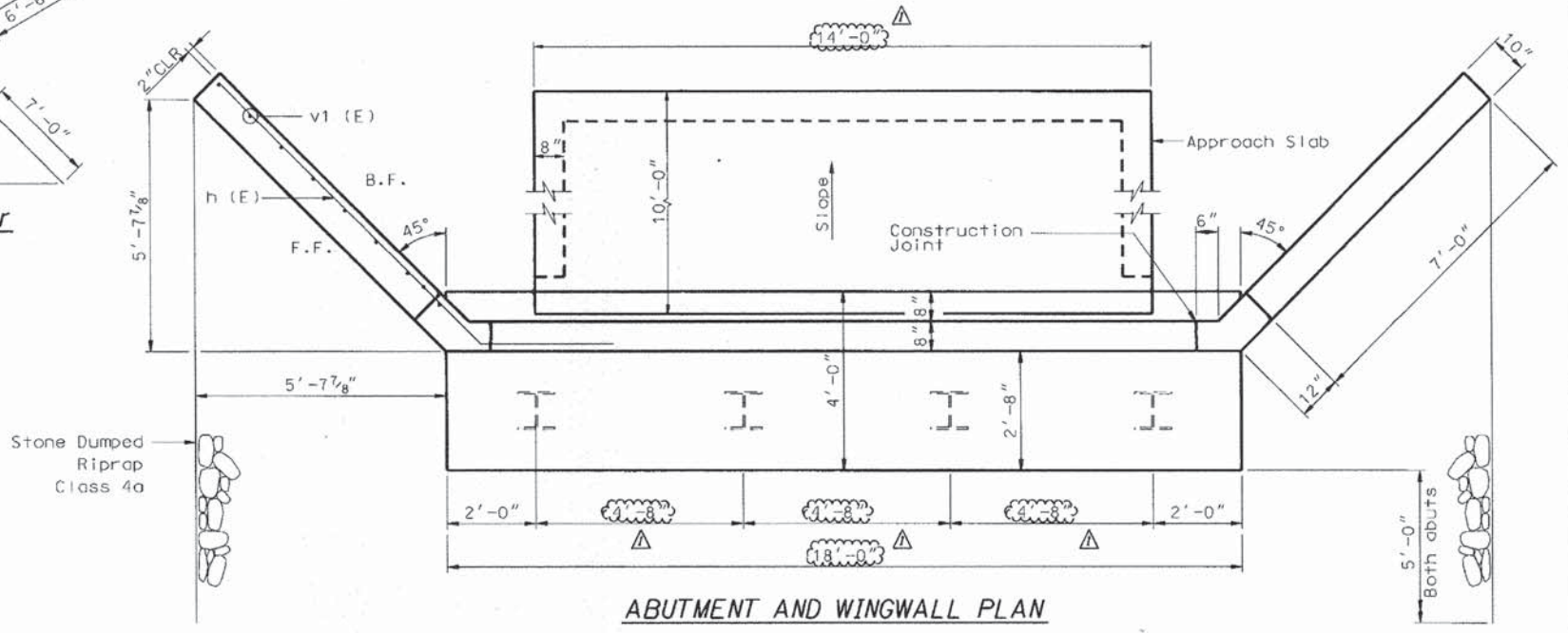
Type: Steel HP10x42
 Nominal Required Bearing: 180 kips
 Factored Resistance Available: 99 kips
 Estimated Length: 14 ft.
 No. Required: 3 @ North Abutment
 3 @ South Abutment
 Test Piles: 1 @ North Abutment
 1 @ South Abutment

Note: The Steel H-piles shall meet the requirements of AASHTO M270 Grade 50.



General Notes:
 Design Loading: H10 or 90psf
 F.F. - Front Face
 B.F. - Back Face

General Notes:
 1. Bearing assemblies to be supplied by the manufacturer of bridge superstructure.
 2. All abutment elevations shall be coordinated with the requirements and dimensions of the selected bridge manufacturer.
 3. Cost of furnishing and installing anchor bolts shall be incidental to the cost of concrete structures. Anchor bolt sizing and spacing shall be coordinated with the requirements of the selected bridge manufacturer.
 4. Space reinforcement in cap to miss anchor bolts.



I certify that to the best of my knowledge, information and belief, 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 the requirements of the current "AASHTO Standard Specifications for Highway Bridges."



John A. Fraunhofer
 JOHN A. FRAUENHOFER
 Illinois Licensed Structural Engineer Number 4192
 License Expires 11/30/15

USER NAME =	DESIGNED -	REVISIONS
PLOT SCALE =	CHECKED -	7-14-15
PLOT DATE =	DRAWN -	
	CHECKED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

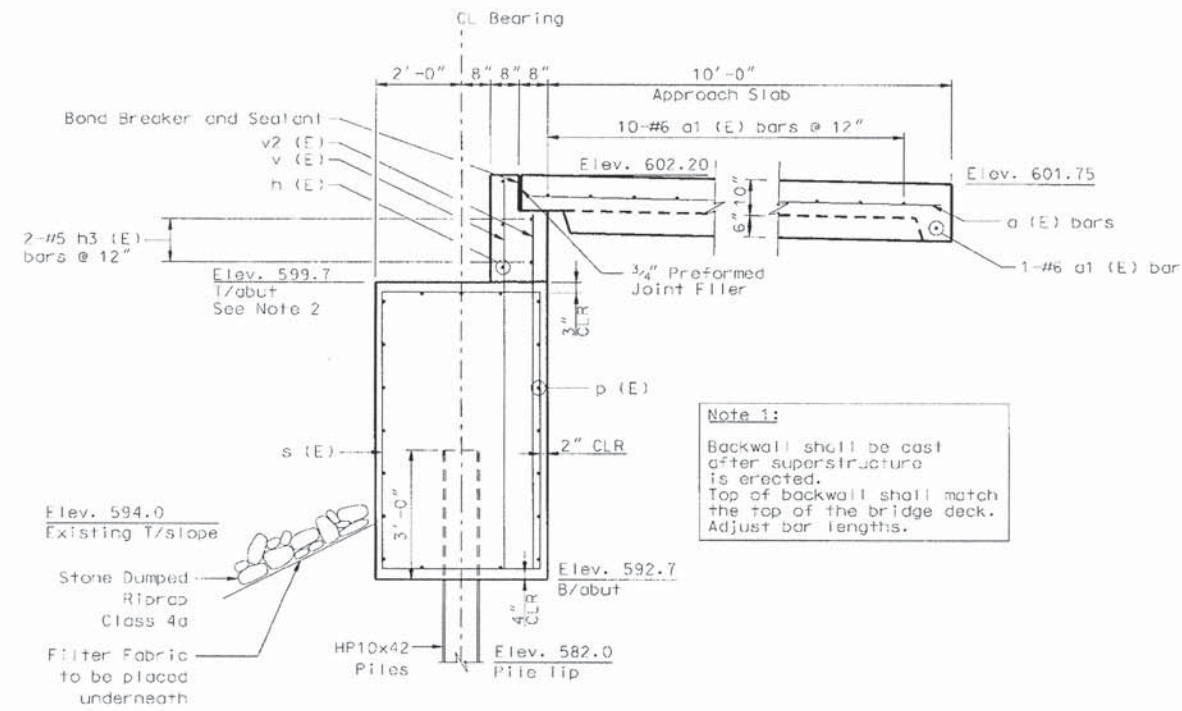
ABUTMENT AND APPROACH SLAB DETAILS
 (SHEET 1 OF 2)

SCALE: 1" = 20' H SHEET 16 OF 27 SHEETS STA. XX+XX TO STA. XX+XX

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4015-00-BT	WILL	27	16
CONTRACT NO. 61A76			ILLINOIS FED. AID PROJECT	

PLAN	DATE
REVISED	
DATE	
BY	
NO.	

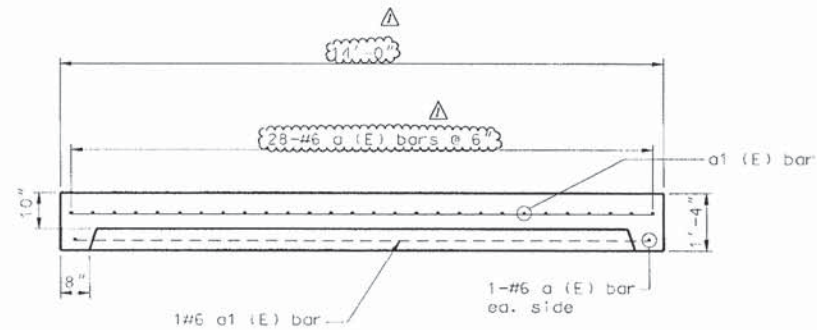
PHOTO	DATE
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BY	
NO.	



ABUTMENT SECTION

Note 2:
Bearing seat elevation and backwall height shall be determined by the contractor from the bridge manufacturer's shop drawings.

Note 1:
Backwall shall be cast after superstructure is erected. Top of backwall shall match the top of the bridge deck. Adjust bar lengths.



APPROACH SLAB SECTION

General Notes:
Design Loading: H10 or 90psf

USER NAME #	DESIGNED -	REVISION
	CHECKED -	7-14-15
PLOT SCALE #	DRAWN -	
PLOT DATE #	CHECKED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT AND APPROACH SLAB DETAILS
(SHEET 2 OF 2)**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	13-P4015-00-BT	WILL	27	16a
			CONTRACT NO. 61A76	

SCALE: 1" = 20' H SHEET 16a OF 27 SHEETS STA. XX+XX TO STA. XX+XX