PROJECT ENGINEER – REBECCA MARRUFFO

SQUAD LEADER – BRAD CUSHMAN (815)284-5996

03-08-13 LETTING ITEM 080

INDEX

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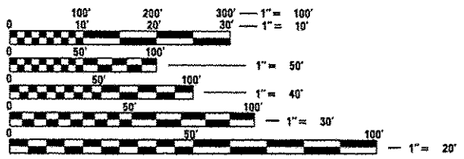


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 64F25

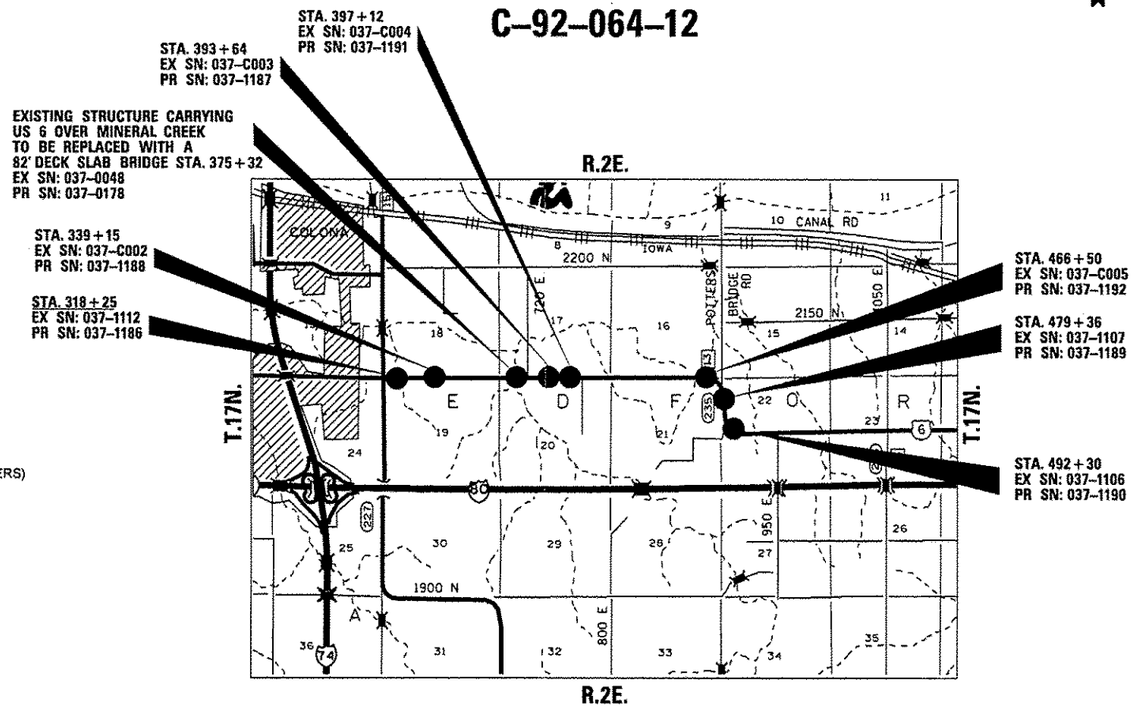
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAS ROUTE 226 (US 6)
SECTION 3T & 3BR-1
PROJECT : ACHSIP-ACRS-0226(102)

HENRY COUNTY

C-92-064-12



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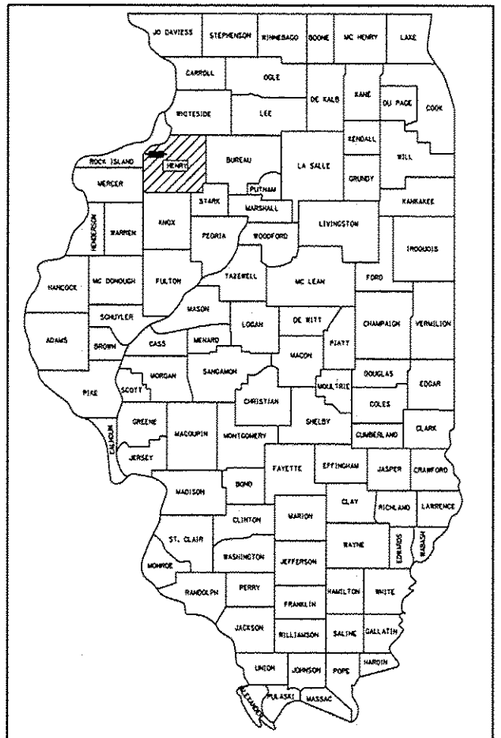

LOCATION OF SECTION INDICATED THUS:-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 19 2012
Paul A. Loete
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Feb 1 2013
John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 2013
Omer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

EDFORD TOWNSHIP SECTION 16,17,18,19,20,21,22

GROSS LENGTH = 5,550 FT. = 1.05 MILE
NET LENGTH = 5,550 FT. = 1.05 MILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64F25		

L2SE L3SE L2SE

BRIDGE 037-0048 DOUBLE BOX

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ACRS 80% FED 20% STATE 0040 QUANTITY	ACRS 80% FED 20% STATE 0011 QUANTITY	ACHSIP 90% FED 10% STATE 0021 QUANTITY	ACRS 80% FED 20% STATE 0011 QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,183	1,183			
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	2,042	791		1,251	
	20101000	TEMPORARY FENCE	FOOT	183	183			
	20200100	EARTH EXCAVATION	CU YD	30,195	30,195			
	20300100	CHANNEL EXCAVATION	CU YD	750	750			
*	25000210	SEEDING, CLASS 2A	ACRE	5.5	5.5			
*	25000310	SEEDING, CLASS 4	ACRE	6.25	6.25			
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1,125	1,125			
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1,125	1,125			
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1,125	1,125			
Δ	25000750	MOWING	ACRE	5.5	5.5			
*	25100125	MULCH, METHOD 3	ACRE	8.25	8.25			
*	25100630	EROSION CONTROL BLANKET	SQ YD	4,350	4,350			
*	25100900	TURF REINFORCEMENT MAT	SQ YD	2,110	2,110			
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	4,000	4,000			
	28000305	TEMPORARY DITCH CHECKS	FOOT	1,390	1,390			
	28000400	PERIMETER EROSION BARRIER	FOOT	660	660			
	28000500	INLET & PIPE PROTECTION	EACH	14	14			
	28100105	STONE RIPRAP, CLASS A3	SQ YD	2,474	2,474			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	452	452			
	28100109	STONE RIPRAP, CLASS A5	SQ YD	594		594		
	28100205	STONE RIPRAP, CLASS A3	TON	638	638			
	28200200	FILTER FABRIC	SQ YD	3,835	3241	594		

* SPECIALTY ITEMS

Δ 100% STATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3DR-1	HENRY	210	2
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ACRS 80% FED 20% STATE 0040 QUANTITY	BRIDGE 037-0048 ACRS 80% FED 20% STATE 0011 QUANTITY	ACHSIP 90% FED 10% STATE 0021 QUANTITY	DOUBLE BOX ACRS 80% FED 20% STATE 0011 QUANTITY
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,784		1,784		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	483	483			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	323	323			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	1,684		1,684		
44000100	PAVEMENT REMOVAL	SQ YD	1,180		1,180		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	290	290			
44004250	PAVED SHOULDER REMOVAL	SQ YD	788	788			
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	1,845	1,470			375
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	4,531	4,531			
48203021	HOT-MIX ASPHALT SHOULDER, 6"	SQ YD	672	672			
50100300	REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1	1			
50100400	REMOVAL OF EXISTING STRUCTURES NO.2	EACH	1	1			
50100500	REMOVAL OF EXISTING STRUCTURES NO.3	EACH	1	1			
50100600	REMOVAL OF EXISTING STRUCTURES NO.4	EACH	1		1		
50100700	REMOVAL OF EXISTING STRUCTURES NO.5	EACH	1	1			
50100800	REMOVAL OF EXISTING STRUCTURES NO.6	EACH	1	1			
50100900	REMOVAL OF EXISTING STRUCTURES NO.7	EACH	1	1			
50101000	REMOVAL OF EXISTING STRUCTURES NO.8	EACH	1	1			
50101100	REMOVAL OF EXISTING STRUCTURES NO.9	EACH	1	1			
50101200	REMOVAL OF EXISTING STRUCTURES NO.10	EACH	1				1
50101300	REMOVAL OF EXISTING STRUCTURES NO.11	EACH	1	1			
50101400	REMOVAL OF EXISTING STRUCTURES NO.12	EACH	1	1			
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1			
50200100	STRUCTURE EXCAVATION	CU YD	57		57		

* SPECIALTY ITEMS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	3

CONTRACT NO. 64F25
ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY		BRIDGE 037-0048		DOUBLE BOX
				ACRS		ACHSIP	ACRS
				80% FED 20% STATE	80% FED 20% STATE	90% FED 10% STATE	80% FED. 20% STATE
				0040	0011	0021	0011
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
50200300	COFFERDAM EXCAVATION	CU YD	54		54		
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1		
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1		
50300225	CONCRETE STRUCTURES	CU YD	169.7		169.7		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	325.6		325.6		
50300260	BRIDGE DECK GROOVING	SQ YD	596		596		
50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2		
50300300	PROTECTIVE COAT	SQ YD	725		725		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	97,290		97,290		
51201600	FURNISHING STEEL PILES HP12X53	FOOT	295		295		
51201610	FURNISHING STEEL PILES HP12X63	FOOT	609		609		
51202305	DRIVING PILES	FOOT	295		295		
51203600	TEST PILE STEEL HP12X53	EACH	2		2		
51500100	NAME PLATES	EACH	8	6	1		1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 01	EACH	1	1			
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 02	EACH	2	2			
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 03	EACH	4				4
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 04	EACH	4	4			
54001005	BOX CULVERT END SECTIONS, CULVERT NO. 05	EACH	2	2			
54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	76	76			
54010906	PRECAST CONCRETE BOX CULVERTS 9' X 6'	FOOT	160	160			
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	136				136
54011208	PRECAST CONCRETE BOX CULVERTS 12' X 8'	FOOT	102	102			
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	101	101			

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* SPECIALTY ITEMS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	4

CONTRACT NO. 64F25
ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ACRS 80% FED 20% STATE 0040 QUANTITY	ACRS BRIDGE 037-0048 80% FED 20% STATE 0011 QUANTITY	ACHSIP 90% FED 10% STATE 0021 QUANTITY
	542A1093	PIPE CULVERTS, CLASS A, TYPE 2 48"	FOOT	62	62		
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	266	266		
	542D1087	PIPE CULVERTS, CLASS D, TYPE 2 42"	FOOT	72	72		
	54213450	END SECTIONS 15"	EACH	12	12		
	54213477	END SECTIONS 42"	EACH	2	2		
	54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	3	3		
	54215410	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"	EACH	1	1		
	54261436	CONCRETE END SECTION, STANDARD 542001, 36", 1:4	EACH	1	1		
	54261448	CONCRETE END SECTION, STANDARD 542001, 48", 1:4	EACH	1	1		
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	43		43	
	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	18	18		
	60100925	PIPE DRAINS 8"	FOOT	110	110		
	60100935	PIPE DRAINS 10"	FOOT	40	40		
	60100955	PIPE DRAINS 15"	FOOT	20	20		
	60107600	PIPE UNDERDRAINS 4"	FOOT	520	520		
	61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	900	900		
	61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	8	8		
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75		75	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4	
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4		4	
	63200310	GUARDRAIL REMOVAL	FOOT	3,882	3,882		
	63500105	DELINEATORS	EACH	18	18		
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	78	78		

* SPECIALTY ITEMS
Δ 100% STATE

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	5
CONTRACT NO. 64F25				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

BRIDGE 037-0048

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ACRS 80% FED 20% STATE 0040 QUANTITY	ACRS 80% FED 20% STATE 0011 QUANTITY	ACHSIP 90% FED 10% STATE 0021 QUANTITY
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	7	7		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		
	67100100	MOBILIZATION	L SUM	1	1		
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8,197	8,197		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	15	15		
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	4		
*	78201000	TERMINAL MARKER- DIRECT APPLIED	EACH	4	4		
*	A2001714	TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	24	20		4
*	A2002714	TREE, CARYA OVATA (SHAGBARK HICKORY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11	7		4
*	A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	7		3
*	A2005114	TREE, JUGLANS NIGRA (BLACK WALNUT), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	7		3
*	A2005814	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	12	7		5
*	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	40	35		5
*	A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	30	24		6
*	A2006914	TREE, QUERCUS PALUSTRIS (PIN OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	23	20		3
*	B2001114	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	14	14		
*	B2005413	TREE, PRUNUS VIRGINIANA SCHUBERT (CANADA RED CHOKECHERRY), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	10	10		
*	C2001480	SHRUB, CORNUS DRUMMONDI (ROUGHLEAF DOGWOOD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	7	7		
*	C2009640	SHRUB, SAMBUCUS CANADENSIS (COMMON ELDERBERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	7	7		
	X2070304	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU YD	72		72	
*	X2501810	SEEDING, CLASS 5 (SPECIAL)	ACRE	0.75	0.75		
	X0322352	SEEDING MOBILIZATION	EACH	2	2		

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* SPECIALTY ITEMS

Δ 100% STATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	6
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ACRS 80% FED 20% STATE 0040 QUANTITY	BRIDGE 037-0048 ACRS 80% FED 20% STATE 0011 QUANTITY	ACHSIP 90% FED 10% STATE 0021 QUANTITY	DOUBLE BOX ACRS 80% FED. 20% STATE 0011 QUANTITY
	X0323660	DROP BOX NO.1	EACH	1	1			
	X0323661	DROP BOX NO.2	EACH	1	1			
	X0323662	DROP BOX NO.3	EACH	1	1			
	X0327396	TRANSVERSABLE PIPE GRATES	FOOT	1,755	1,187			568
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1			
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	150		150		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	Z0020900	ESTABLISHING AND REFERENCING LAND SECTION MARKERS	EACH	1	1			
	Z0025505	PROPERTY MARKERS	EACH	4	4			
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	139		139		
*	Z0065000	SETTING PILES IN ROCK	EACH	14		14		
*	Z0054500	ROCK FILL	TON	850	850			

* SPECIALTY ITEMS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	7

CONTRACT NO. 64F25

ILLINOIS | FED. AID PROJECT

GENERAL NOTES

See cross sections for special ditches and backslopes.

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. Impervious material shall be used on the outer 3 feet of each end of the culvert. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses less than 12 inches shall be constructed of aggregate of CA02 gradation.

Class C Patches shall be tied to the adjacent lane when the patches are more than 20 feet. The cost of the tie bars shall be included in the cost of the patch.

The following Mixture Requirements are applicable for this project:

	Mainline Resurfacing	Shoulders	
Mixture Uses(s):	Surface	Surface	6" Shoulder
PG:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5 or 12.5	BAM or IL 19.0
Friction Aggregate	C	C	N/A
20 Year ESAL	0.4	0.4	N/A

The Contractor will be required to furnish 5 1/2" high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 6" inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The area to be primed shall be limited to that which can be covered with HMA on the next days productivity, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per Ton for HOT-MIX ASPHALT SURFACE COURSE of the type specified.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for these structures will be:

Sta. 318+25	SN 037-1186
Sta. 339+15	SN 037-1188
Sta. 375+32	SN 037-0178
Sta. 393+64	SN 037-1187
Sta. 397+17	SN 037-1191
Sta. 466+50	SN 037-1192
Sta. 479+36	SN 037-1189
Sta. 492+34	SN 037-1190

The thickness for the Bridge Approach Pavement Connector (Flexible) adjacent to existing pavement shall be a minimum of 12". The material shall be 2" Hot-Mix Asphalt Surface Course, and the remaining thickness shall be Hot-Mix Asphalt Binder Course.

Reflector Markers Type B shall be installed on the top of bridge parapet walls. The markers shall be according to Standard 635011 and the color and spacing according to Standard 635006, except the minimum is 2 per side.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 6" for Pipe Drains and 8" for Storm Sewer, but the size must be at least 2" larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See the Summary of Quantities for the estimated quantities.

The underdrain system scheduled on this project is to be constructed in accordance with Section 601 of the Standard Specifications for Road and Bridge Construction, except CA 16 shall be used in lieu of FA 1 or FA 2 for trench backfill. The CA 16 shall be according to Article 1004.05 and Article 1004.01 of the Standard Specifications, except in the table, Course Aggregate Gradation, the percent passing the No. 16 sieve shall be 4 ± 4%. The trench shall be wrapped using a fabric envelope meeting the requirements of Article 1080.05 of the Standard Specifications. Fabric encasing the pipe shall be eliminated.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Earth Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

GENERAL NOTES

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1 mile or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 7 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. Option 2 would be to install a vaulted style, monumented as described by NGS as a 3D monument (Top Security Sleeve Rod Monument), with installation instructions provided by the District Chief of Surveys. If poured in place, the bottom of the marker shall be 5'-0" below the ground surface.

The Permanent Survey Markers, if possible, shall be installed at the beginning of the job and protected throughout.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal coordinates must be derived by GPS and the elevation derived using an electronic level. The meta data, such as the Geoid used, (NGS adjustment ie: 97 HARN, 03, 07), and the base point(s) name or number shall be submitted along with a complete collection log. If collected using RTK method, it will require either 3 collections (averaged) from 2 different bases, or a minimum of 3 collections (averaged), at least 2 hours apart, from the same base. If using a CORS type network, the collection procedure shall include localizing with check shots on at least 2 different HARN monuments both before and after collection. The level circuit shall be run from furnished mark to furnished mark and then adjusted. The error of closure shall be submitted with the electronic level notes in a recognized format approved by the Engineer and/or the Chief of Surveys. The Engineer shall submit this information to the District Chief of Surveys.

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

Right-of-way markers will be erected per Highway Standard 666001 with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 12 inches inside the new right-of-way line. Method of installation shall be approved by the Engineer.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Geneseo Telephone Co. (309/944-8012) AT&T (309/757-4707)
MidAmerican Energy/Electric (309/793-3833) MidAmerican Energy/Gas (309/793-3707)
Lightcore (636/887-4755)

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Award Date + 100 days.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

COMMITMENTS:

1. The construction limits in front of the wetland sites shall be marked in the field with snow fence.
2. No construction activities shall take place beyond the construction limits in the wetland sites. This includes driving and parking vehicles and stock piling materials.
3. The disturbed area along the banks of Mineral Creek shall be re-vegetated according to the Re-vegetation Plan and Special Provisions attached.

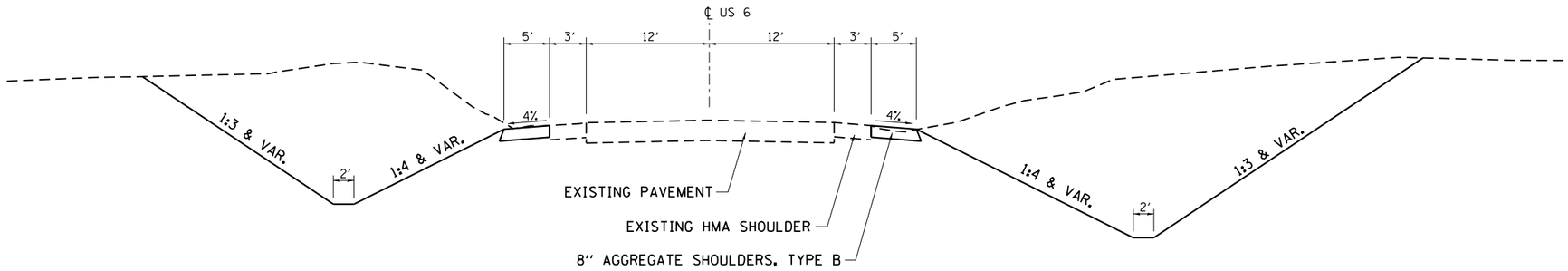
FILE NAME = 64F25.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			FAS 226 (US 6)	3T & 3BR-1	Henry	210	9
	PLOT SCALE =	CHECKED -	REVISED -					CONTRACT NO. 64F25		
	PLOT DATE = 10/19/2012 8:34 AM	DATE - 6/4/2012 11:31 AM	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

STA. 316+50 - 317+83.4
STA. 318+66.6 - 324+39.7
STA. 324+78.8 - 326+25
STA. 337+75 - 338+93.3
STA. 339+36.6 - 340+50
STA. 378+00 - 378+89.4
STA. 379+24.4 - 383+65
STA. 384+06.6 - 386+50

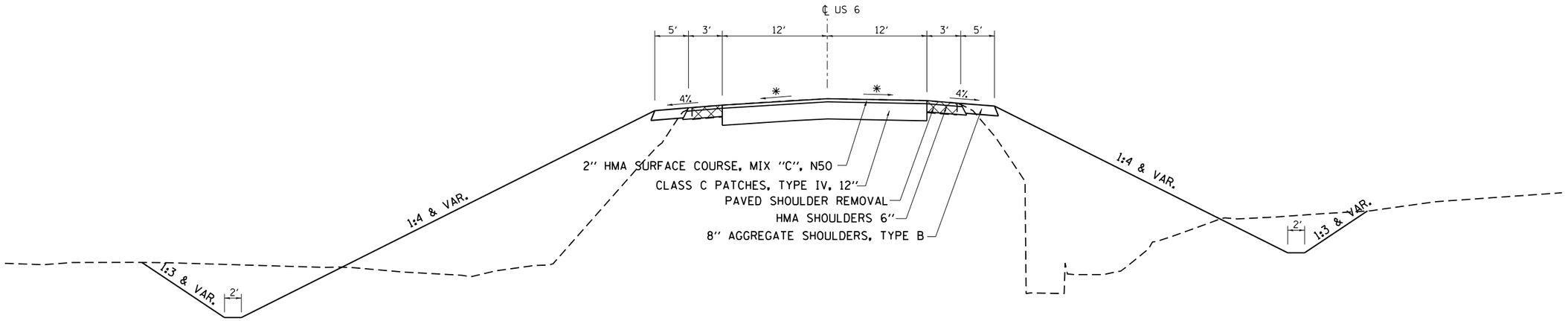
STA. 393+00 - 393+36.66
STA. 393+92.35 - 396+81.6
STA. 397+53.5 - 398+75
STA. 461+25 - 462+15.5
STA. 462+57.1 - 466+09.8
STA. 467+50.2 - 479+08.8 ✳
STA. 479+63.6 - 481+50
STA. 490+75 - 491+91
STA. 492+76.0 - 493+75

✳ 467+50 - 478+25 RIGHT SIDE ONLY



STA. 317+83.4 - 318+66.6
STA. 324+39.7 - 324+78.8
STA. 338+93.3 - 339+36.6
STA. 378+89.4 - 379+24.4
STA. 383+65.0 - 384+06.60
STA. 393+36.66 - 393+92.35
STA. 396+81.6 - 397+53.5
STA. 462+02.0 - 462+71.0
STA. 466+09.8 - 467+50.2
STA. 479+08.8 - 479+63.6
STA. 491+91.0 - 492+76.0

✳ MATCH EXISTING CROSS SLOPE, MIN 1/8″ PER FT.
112 LBS/SQ YD/IN



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		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 24 11:13:34 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

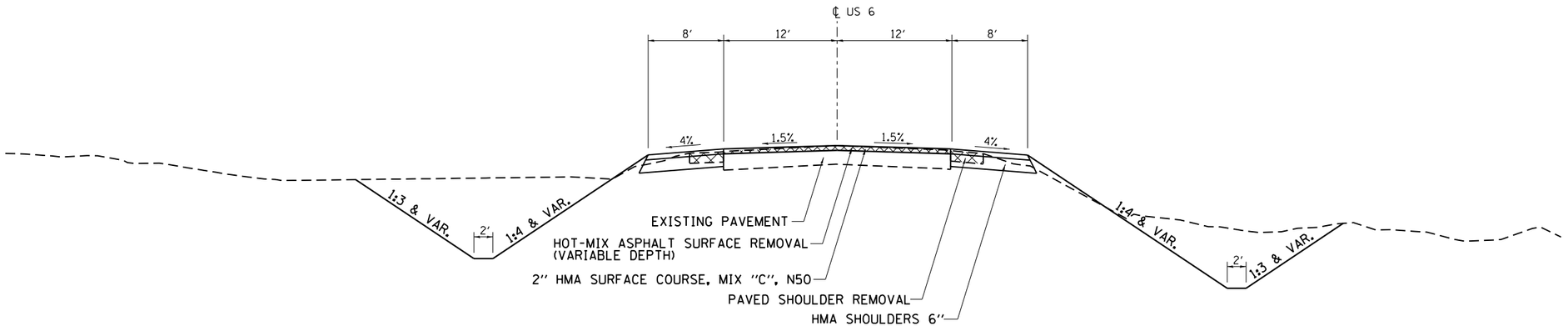
TYPICAL SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	10
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

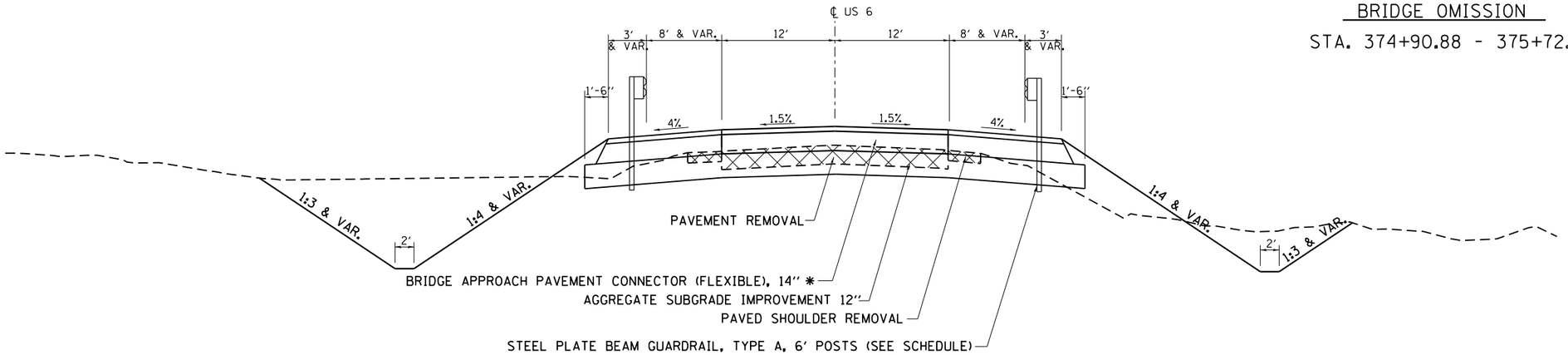
TYPICAL SECTIONS

STA. 372+49.88 - 373+10.88
STA. 377+52.88 - 378+00.38



STA. 373+10.88 - 374+60.88
STA. 376+02.38 - 377+52.88

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) (SEE HIGHWAY STD.)



BRIDGE APPROACH PAVEMENT

STA. 374+60.88 - 374+90.88
STA. 375+72.38 - 376+02.38

BRIDGE OMISSION

STA. 374+90.88 - 375+72.88

* COSISTS OF: 2" HMA SURFACE COARSE, MIX C, N50
3" TOP LIFT HMA BINDER COURSE, IL-19.0, N50
4" MIDDLE LIFT HMA BINDER COURSE, IL-19.0, N50
5" BOTTOM LIFT HMA BINDER COURSE, IL-19.0, N50

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

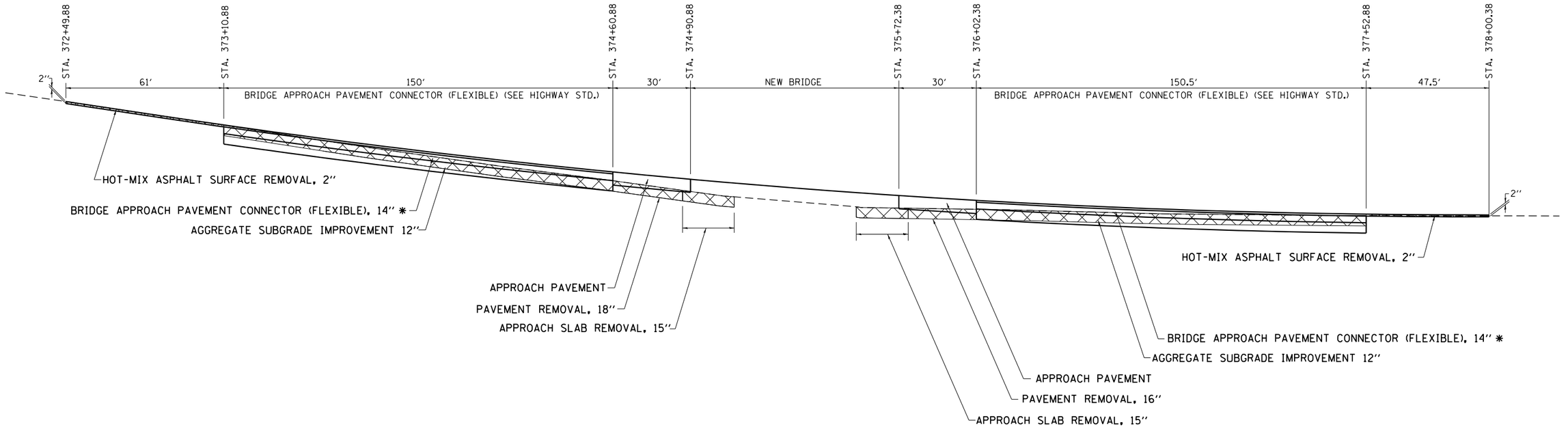
TYPICAL SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

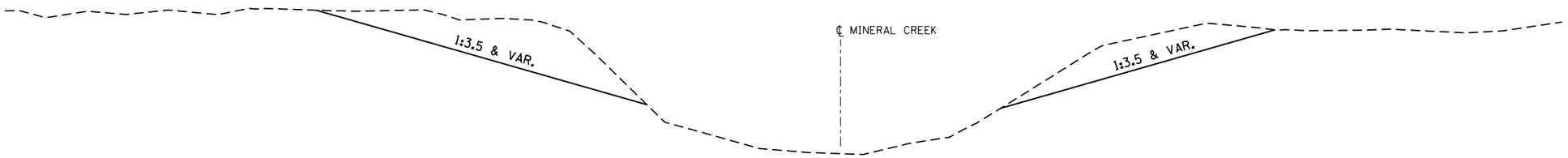
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	11
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

CONNECTOR DETAIL



STA. 7+75 - 12+75



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	PLOT DATE = Wed Oct 24 11:13:35 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	12
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION		UNITS	COMMENTS
STA 374+04.62	47.6' RT	9	
STA 374+06.16	48.8' RT	14	
STA 375+20.39	96.7' RT	14	
STA 375+23.99	96.2' RT	6	
STA 375+24.36	97.5' RT	7	
STA 375+10.12	115.7' RT	12	
STA 375+06.33	136.7' RT	12	
STA 375+11.76	158.1' RT	7	
STA 375+02.23	226.6' RT	14	
STA 375+89.85	38.5' RT	15	
STA 375+65.49	52.7' RT	6	
STA 375+98.33	63.4' RT	7	
STA 375+53.02	88.5' RT	6	
STA 375+53.02	88.5' RT	6	
STA 375+52.61	90.4' RT	11	
STA 375+50.26	203.6' RT	11	
STA 375+60.68	46.5' LT	6	
STA 375+60.99	46.9' LT	6	
STA 375+60.50	51.4' LT	13	
STA 375+79.04	54' LT	10	
STA 375+69.01	57.9' LT	7	
STA 375+78.80	77.3' LT	10	
STA 375+78.65	82' LT	8	
STA 375+72.22	96.5' LT	9	
STA 375+86.25	106.1' LT	9	
STA 375+88.48	104.3' LT	10	
STA 375+90.32	110.6' LT	9	
STA 376+29.96	102.9' LT	6	
STA 375+39.05	152.5' LT	15	
STA 375+96.54	159.1' LT	9	
STA 376+27.41	150.1' LT	7	
STA 376+28.44	150.5' LT	10	
STA 396+08.62	55.3' LT	6	
STA 396+23.98	61.8' LT	11	
STA 396+55.91	65.6' LT	8	
STA 396+66.93	55.8' LT	10	
STA 396+67.56	56.7' LT	12	
STA 396+76.53	66.5' LT	14	
STA 396+84.76	63' LT	6	
STA 396+97.16	59.4' LT	8	
STA 397+17.85	55.1' LT	8	
STA 397+53.13	55.2' LT	14	
STA 397+55.96	54.9' LT	15	
STA 397+64.97	53.7' LT	8	
STA 461+60.42	48.5' RT	10	
STA 461+68.27	41' RT	6	
STA 461+68.59	39' RT	7	
STA 461+75.21	61.4' RT	10	
STA 461+95.27	53.8' RT	9	
STA 461+97.85	45.3' RT	11	
STA 461+98.60	44.2' RT	7	
STA 462+07.97	58.8' RT	7	
STA 462+64.47	69.5' RT	8	
STA 463+05.96	47.1' LT	15	
STA 463+24.84	48.1' LT	15	
STA 463+28.74	48.3' LT	8	
STA 464+49.66	51.5' LT	10	
STA 464+77.20	53.5' LT	12	
STA 464+78.27	54.6' LT	14	
STA 465+29.33	61.7' LT	14	
STA 465+73.04	59.3' LT	6	
STA 465+82.64	71.8' LT	6	
STA 466+03.53	72.3' LT	8	
STA 466+11.54	72.9' LT	8	
STA 466+38.92	69.3' LT	6	
STA 466+44.83	70.5' LT	6	
STA 466+44.83	70.5' LT	6	
STA 466+44.83	70.5' LT	6	
STA 466+44.83	70.5' LT	6	
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STA 466+44.83	70.5' LT	6	
STA 466+44.83	70.5' LT	6	
STA 467+14.76	74.6' RT	8	
STA 479+27.55	59.9' LT	11	
STA 479+56.31	61.6' LT	7	
STA 479+57.58	55.1' LT	7	
STA 479+66.87	40.5' LT	6	
STA 479+68.26	41.1' LT	10	
STA 479+77.60	48.7' LT	8	
STA 479+79.13	49.8' LT	6	
STA 479+81.94	56.6' LT	6	
STA 479+84.53	62.6' LT	6	
STA 479+91.68	39.5' LT	7	
STA 480+22.73	51.8' LT	8	
STA 480+30.28	41.3' LT	10	
STA 480+31.34	45.4' LT	12	
STA 480+33.28	46' LT	7	
STA 480+54.30	44.7' LT	9	
STA 480+54.40	45.8' LT	12	
STA 480+94.74	39.2' LT	8	
STA 480+97.10	39.3' LT	7	
STA 481+05.66	41.71' LT	9	
STA 481+12.65	55.2' LT	11	
STA 481+20.72	47.2' LT	14	
STA 481+19.92	47.8' LT	14	
STA 481+19.80	49.3' LT	8	
STA 481+20.53	59.6' LT	13	
STA 481+23.48	48.9' LT	12	
STA 481+23.26	51.6' LT	14	
STA 481+24.02	51' LT	14	
STA 481+23.97	52.4' LT	10	
STA 492+47.13	37.2' RT	7	
STA 492+42.03	44.9' RT	10	
STA 492+45.18	54.5' RT	14	
STA 492+48.24	69.8' RT	10	
STA 492+58.85	69.4' RT	11	
STA 492+70.80	84.2' RT	11	
STA 492+67.37	90.8' RT	9	
STA 492+65.53	95.8' RT	10	
STA 492+65.02	103.4' RT	6	
STA 492+66.43	105.2' RT	7	
STA 492+56.82	35' RT	10	
STA 492+58.36	33' RT	14	
STA 492+72.77	44.6' RT	14	
STA 492+75.66	47.3' RT	8	
STA 492+79.17	46.8' RT	9	
STA 492+92.94	44.2' RT	6	
STA 492+93.44	37.8' RT	13	
STA 492+79.37	63.3' RT	6	
STA 492+81.18	67.1' RT	11	
STA 492+83.25	67.1' RT	11	
STA 492+98.15	54.5' RT	11	
STA 493+00.26	63.8' RT	8	
STA 492+95.91	75.7' RT	7	
STA 493+06.07	69.2' RT	14	
	TOTAL	1183	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	13
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION		UNITS	COMMENTS
STA 333+74	32.1' RT	40	
STA 333+97	31.1' RT	40	
STA 343+82	31.8' RT	50	
STA 344+70	40.8' LT	46	
STA 348+43	35.5' RT	36	
STA 360+36	36.4' LT	50	
STA 361+54	32.4' RT	36	
STA 361+56	40.1' LT	46	
STA 368+57	31' RT	40	
STA 375+13.40	152.4' RT	16	
STA 375+11.46	156.2' RT	28	
STA 374+92.88	242.9' RT	22	
STA 375+88.32	40.1' RT	16	
STA 375+88.23	41.6' RT	16	
STA 375+56.44	103.3' RT	16	
STA 375+47.43	159.5' RT	18	
STA 375+45.63	161' RT	32	
STA 375+48.27	199.5' RT	22	
STA 375+51.43	201.9' RT	19	
STA 375+48.08	203.15' RT	20	
STA 376+17.13	101.7' LT	22	
STA 375+24.52	93.6' LT	28	
STA 382+54	39.5' LT	22	
STA 394+47.71	43.7' LT	24	
STA 394+51	39.8' LT	16	
STA 395+00	38.9' LT	45	
STA 395+14	41.2' LT	18	
STA 396+47.01	65.8' LT	16	
STA 397+53.41	56.3' LT	18	
STA 397+53.95	53.8' LT	18	
STA 397+56.79	53.1' LT	18	
STA 397+62.49	54' LT	26	
STA 406+36	29.5' RT	36	
STA 408+94	38.1' LT	46	
STA 410+58	38.4' LT	46	
STA 426+16	33.9' RT	36	
STA 427+41	39' LT	40	
STA 428+18	37.1' LT	40	
STA 430+27	38.4' RT	20	
STA 430+41	38.8' LT	50	
STA 430+54	38.4' RT	26	
STA 430+90	38.8' RT	26	
STA 431+34	45.6' RT	40	
STA 432+75	37.6' RT	40	
STA 436+72	37.3' RT	36	
STA 445+33	28.6' LT	46	
STA 445+66	35.7' RT	46	
STA 445+94	31' LT	46	
STA 452+24	37.1' RT	50	
STA 455+59	35' LT	40	
STA 463+33	40.6' LT	36	
STA 463+59.94	45.2' LT	18	
STA 463+80.13	47' LT	18	
STA 463+98	45.8' LT	21	
STA 464+09.68	47.3' LT	18	
STA 464+16.78	45.4' LT	18	
STA 464+25.18	53.6' LT	25	
STA 464+41.27	51.6' LT	22	
STA 464+83.07	57.6' LT	20	
STA 465+08.20	65' LT	25	
STA 465+38.36	63.9' LT	18	
STA 479+47.31	61.2' LT	17	
STA 480+09.21	71.6' LT	24	
STA 480+19.82	69.5' LT	21	
STA 480+54.37	43.8' LT	22	
STA 481+20.03	46.5' LT	16	
STA 484+99	40.4' LT	40	
STA 492+71.37	85.9' RT	19	
STA 492+55.83	31.1' RT	19	
STA 492+82.11	42.4' RT	19	
STA 492+85.23	63.3' RT	16	
	TOTAL	2042	

20101000 TEMPORARY FENCE

LOCATION				FOOT	COMMENTS
STA 318+06.34	TO 318+47.77	RT		42	WETLAND PROTECTION AREA (SEE COMMITMENT NO.1)
STA 338+56.66	TO 338+84.69	LT		36	WETLAND PROTECTION AREA (SEE COMMITMENT NO.1)
STA 339+16.09	TO 339+68.93	LT		59	WETLAND PROTECTION AREA (SEE COMMITMENT NO.1)
STA 383+76.36	TO 384+07.38	LT		32	WETLAND PROTECTION AREA (SEE COMMITMENT NO.1)
STA 491+60.12	TO 491+71.38	LT		14	WETLAND PROTECTION AREA (SEE COMMITMENT NO.1)
			TOTAL	183	

25000210 SEEDING, CLASS 2A

LOCATION			ACRE	COMMENTS
STA 316+50	TO 326+25	LT & RT	1.75	CULVERT AREA
STA 337+75	TO 340+50	LT & RT	0.25	CULVERT AREA
STA 372+50	TO 386+50	LT & RT	1.25	CULVERT AREA
STA 392+00	TO 398+75	LT & RT	0.50	CULVERT AREA
STA 461+25	TO 481+50	LT & RT	1.50	CULVERT AREA
STA 490+75	TO 493+75	LT & RT	0.25	CULVERT AREA
		TOTAL	5.50	

25000310 SEEDING, CLASS 4

LOCATION			ACRE	COMMENTS
STA 316+50	TO 326+25	LT & RT	1.25	CULVERT AREA
STA 337+75	TO 340+50	LT & RT	0.25	CULVERT AREA
STA 372+50	TO 386+50	LT & RT	0.75	CULVERT AREA
STA 392+00	TO 398+75	LT & RT	0.75	CULVERT AREA
STA 461+25	TO 481+50	LT & RT	2.25	CULVERT AREA
STA 490+75	TO 493+75	LT & RT	0.25	CULVERT AREA
STA 7+75	TO 12+75	LT & RT	0.75	MINERAL CREEK
		TOTAL	6.25	

25000400 NITROGEN FERTILIZER NUTRIENT

LOCATION			POUND	COMMENTS
STA 316+50	TO 326+25	LT & RT	270.0	CULVERT AREA
STA 337+75	TO 340+25	LT & RT	45.0	CULVERT AREA
STA 372+50	TO 386+50	LT & RT	180.0	CULVERT AREA
STA 392+00	TO 398+75	LT & RT	112.5	CULVERT AREA
STA 461+25	TO 481+25	LT & RT	337.5	CULVERT AREA
STA 491+00	TO 492+75	LT & RT	45.0	CULVERT AREA
STA 7+75	TO 12+75	LT & RT	135.3	MINERAL CREEK
		TOTAL	1125	

25000500 PHOSPHORUS FERTILIZER NUTRIENT

LOCATION			POUND	COMMENTS
STA 316+50	TO 326+25	LT & RT	270.0	CULVERT AREA
STA 337+75	TO 340+25	LT & RT	45.0	CULVERT AREA
STA 372+50	TO 386+50	LT & RT	180.0	CULVERT AREA
STA 392+00	TO 398+75	LT & RT	112.5	CULVERT AREA
STA 461+25	TO 481+25	LT & RT	337.5	CULVERT AREA
STA 491+00	TO 492+75	LT & RT	45.0	CULVERT AREA
STA 7+75	TO 12+75	LT & RT	135.3	MINERAL CREEK
		TOTAL	1125	

25000600 POTASSIUM FERTILIZER NUTRIENT

LOCATION			POUND	COMMENTS
STA 316+50	TO 326+25	LT & RT	270.0	CULVERT AREA
STA 337+75	TO 340+25	LT & RT	45.0	CULVERT AREA
STA 372+50	TO 386+50	LT & RT	180.0	CULVERT AREA
STA 392+00	TO 398+75	LT & RT	112.5	CULVERT AREA
STA 461+25	TO 481+25	LT & RT	337.5	CULVERT AREA
STA 491+00	TO 492+75	LT & RT	45.0	CULVERT AREA
STA 7+75	TO 12+75	LT & RT	135.3	MINERAL CREEK
		TOTAL	1125	

25000750 MOWING

LOCATION			ACRE	COMMENTS
STA 316+50	TO 326+25	LT & RT	1.75	
STA 337+75	TO 340+25	LT & RT	0.25	
STA 372+50	TO 386+50	LT & RT	1.25	
STA 392+00	TO 398+75	LT & RT	0.50	
STA 461+25	TO 481+25	LT & RT	1.50	
STA 491+00	TO 492+75	LT & RT	0.25	
		TOTAL	5.50	

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	PLOT DATE = Wed Oct 24 11:14:31 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	14
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

25100125 MULCH, METHOD 3

LOCATION					ACRE	COMMENTS
STA 316+50	TO	326+25	LT & RT		2.75	
STA 337+75	TO	340+25	LT & RT		0.50	
STA 372+50	TO	386+50	LT & RT		1.50	
STA 392+00	TO	398+75	LT & RT		0.50	
STA 461+25	TO	481+25	LT & RT		2.50	
STA 491+00	TO	492+75	LT & RT		0.50	
				TOTAL	8.25	

25100630 EROSION CONTROL BLANKET

LOCATION					SQ YD	COMMENTS
STA 318+38	TO	326+25	RT		636	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 318+31	TO	322+74	LT		400	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 323+25	TO	325+25	LT		179	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 338+75	TO	340+50	RT		134	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 372+75	TO	375+00	RT		201	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 375+75	TO	380+00	RT		378	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 375+75	TO	379+00	LT		291	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 380+83	TO	386+50	RT		503	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 393+00	TO	398+75	RT		439	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 396+75	TO	398+50	LT		112	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 461+25	TO	466+44	LT		424	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 466+56	TO	467+50	LT		92	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 478+50	TO	479+32	LT		76	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 479+45	TO	481+51	LT		185	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 490+75	TO	491+75	LT		90	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 491+50	TO	492+80	RT		128	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
STA 491+86	TO	492+75	LT		81	8' Wide in Ditch Bottoms, Locations shown in Erosion Control Plans
				TOTAL	4,350	

25100900 TURF REINFORCEMENT MAT

LOCATION			SQ YD	COMMENTS
STA 318+25	RT		58	
STA 339+15	RT		73	
STA 375+32	LT & RT		1,763	Installed on the banks of Mineral Creek
STA 393+64	RT		46	
STA 397+12	RT		66	
STA 479+36	LT		66	
STA 492+30	RT		38	
		TOTAL	2,110	

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION				POUND	COMMENTS
STA 316+50	TO	492+75	LT & RT	4000.00	ESTIMATED QUANTITY (PROJECT LIMITS)
			TOTAL	4000.00	

28000305 TEMPORARY DITCH CHECKS

LOCATION				FOOT	COMMENTS
STA 318+50	TO	326+25	RT	150	SEE PLANVIEW FOR EXACT LOCATIONS
STA 318+50	TO	322+50	LT	170	SEE PLANVIEW FOR EXACT LOCATIONS
STA 323+50	TO	325+00	LT	50	SEE PLANVIEW FOR EXACT LOCATIONS
STA 339+00	TO	340+00	RT	30	SEE PLANVIEW FOR EXACT LOCATIONS
STA 373+00	TO	374+75	RT	80	SEE PLANVIEW FOR EXACT LOCATIONS
STA 374+00	TO	374+75	LT	40	SEE PLANVIEW FOR EXACT LOCATIONS
STA 376+00	TO	378+00	LT	30	SEE PLANVIEW FOR EXACT LOCATIONS
STA 376+00	TO	386+00	RT	90	SEE PLANVIEW FOR EXACT LOCATIONS
STA 393+25	TO	396+50	RT	70	SEE PLANVIEW FOR EXACT LOCATIONS
STA 397+75			RT	10	SEE PLANVIEW FOR EXACT LOCATIONS
STA 397+00	TO	397+50	LT	30	SEE PLANVIEW FOR EXACT LOCATIONS
STA 461+75	TO	480+25	RT	270	SEE PLANVIEW FOR EXACT LOCATIONS
STA 462+25	TO	467+25	LT	200	SEE PLANVIEW FOR EXACT LOCATIONS
STA 478+75	TO	481+25	RT	70	SEE PLANVIEW FOR EXACT LOCATIONS
STA 490+75	TO	492+50	RT	60	SEE PLANVIEW FOR EXACT LOCATIONS
STA 491+75	TO	492+50	RT	40	SEE PLANVIEW FOR EXACT LOCATIONS
			TOTAL	1390	

28000400 PERIMETER EROSION BARRIER

LOCATION				FOOT	COMMENTS
STA 317+36	TO	318+15	LT	120	
STA 317+00	TO	318+00	RT	135	
STA 337+75	TO	338+90	LT	130	
STA 339+00	TO	340+25	LT	150	
STA 383+50	TO	384+50	LT	125	
			TOTAL	660	

28000500 INLET AND PIPE PROTECTION

LOCATION		EACH	COMMENTS
STA 316+74	LT	1	
STA 318+25	RT	1	
STA 339+15	RT	1	
STA 371+50	RT	1	
STA 373+25	LT	1	
STA 380+75	RT	1	
STA 393+64	RT	1	
STA 397+50	RT	1	
STA 398+25	LT	1	
STA 398+50	RT	1	
STA 461+36	LT	1	
STA 466+50	RT	1	
STA 479+36	RT	1	
STA 492+30	RT	1	
	TOTAL	14	

28100105 STONE RIPRAP, CLASS A3

LOCATION					SQ YD	COMMENTS
STA 461+50	TO	479+29	RT		2,471	See special detail "Aggregate Ditch for Flexible Ditch Lining"
STA 480+68	LT				3	5' W x 5' L Outlet of Pipe Drain
				TOTAL	2474	

28100107 STONE RIPRAP, CLASS A4

LOCATION					SQ YD	COMMENTS
STA 318+25	LT				33	20' W X 15' L
STA 324+50	TO	326+00	RT		203	Variable Width/ Installed on 1:3 Backslope
STA 339+15	LT				28	10' W X 25' L
STA 393+64	LT				17	10' W X 15' L
STA 397+17	LT				26	10' W X 23' L
STA 466+50	LT				39	35' W X 10' L
STA 471+21	TO	471+60	RT		40	Variable Width/ Installed on 1:3 Backslope
STA 479+36	RT				25	15' W X 15' L
STA 492+30	LT				42	15' W X 25' L
				TOTAL	452	

28100205 STONE RIPRAP, CLASS A3

LOCATION					TON	COMMENTS
STA 462+47	TO	466+55	RT		638	See special detail "Backslope Stability Drain" 30 Degree Rock Slopes Every 50'
				TOTAL	638	

28200200 FILTER FABRIC

LOCATION					SQ YD	COMMENTS
STA 318+25	LT				33	20' W X 15' L
STA 324+50	TO	326+00	RT		203	Variable Width/ Installed on 1:3 Backslope
STA 374+81	TO	375+82			594	Installed under the Stone Riprap, Class A5
STA 339+15	LT				28	10' W X 25' L
STA 393+64	LT				17	10' W X 15' L
STA 397+17	LT				26	10' W X 23' L
STA 461+50	TO	479+29	RT		2,471	See special detail
STA 462+47	TO	466+55	RT		315	30 Degree Rock Slopes Every 50'
STA 466+50	LT				39	35' W X 10' L
STA 471+21	TO	471+60	RT		40	Variable Width/ Installed on 1:3 Backslope
STA 479+36	RT				25	15' W X 15' L
STA 480+68	LT				3	5' W x 5' L Outlet of Pipe Drain
STA 492+30	LT				42	15' W X 25' L
				TOTAL	3835	

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

LOCATION			SQ YD	COMMENTS
STA 373+10.88	TO	374+60.88	892.00	
STA 376+02.38	TO	377+52.88	892.00	
		TOTAL	1784.00	

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

LOCATION			SQ YD	COMMENTS
STA 373+10.88	TO	374+60.88	842.00	
STA 376+02.38	TO	377+52.88	842.00	
		TOTAL	1684.00	

44000100 PAVEMENT REMOVAL

LOCATION			SQ YD	COMMENTS
STA 373+10.73	TO	374+88.31	590.00	
STA 375+75.54	TO	377+52.53	590.00	
		TOTAL	1180.00	

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			226	3T & 3BR-1	HENRY	210	15
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		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

44004250 PAVED SHOULDER REMOVAL

LOCATION			SQ YD	COMMENTS
STA 317+83.40	TO	318+66.60	55	
STA 324+39.70	TO	324+78.80	26	
STA 338+93.30	TO	339+36.60	29	
STA 372+49.88	TO	374+88.25	159	
STA 375+75.32	TO	378+00.00	150	
STA 378+89.40	TO	379+24.40	23	
STA 383+65.00	TO	384+06.60	28	
STA 393+36.66	TO	393+92.35	37	
STA 396+81.60	TO	397+53.50	48	
STA 462+02.20	TO	462+70.85	46	
STA 466+09.80	TO	467+50.20	94	
STA 479+08.80	TO	479+63.60	37	
STA 491+91.00	TO	492+76.00	57	
		TOTAL	788.00	

44201383 CLASS C PATCHES, TYPE IV, 12 INCH

LOCATION			SQ YD	COMMENTS
STA 317+83.43	TO	318+66.63	222	
STA 324+39.79	TO	324+78.86	104	
STA 338+93.34	TO	339+36.65	115	
STA 378+89.43	TO	379+24.41	93	
STA 383+65.05	TO	384+06.69	111	
STA 393+36.66	TO	393+92.35	149	
STA 396+81.66	TO	397+53.50	192	
STA 462+02.20	TO	462+70.85	111	
STA 466+09.84	TO	467+50.28	375	
STA 479+08.85	TO	479+63.68	146	
STA 491+91.01	TO	492+76.03	227	
		TOTAL	1845	

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

LOCATION	EACH	COMMENTS
STA 318+25	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

LOCATION	EACH	COMMENTS
STA 324+59	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100500 REMOVAL OF EXISTING STRUCTURES NO. 3

LOCATION	EACH	COMMENTS
STA 339+23	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100600 REMOVAL OF EXISTING STRUCTURES NO. 4

LOCATION	EACH	COMMENTS
STA 375+32	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100700 REMOVAL OF EXISTING STRUCTURES NO. 5

LOCATION	EACH	COMMENTS
STA 379+07	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100800 REMOVAL OF EXISTING STRUCTURES NO. 6

LOCATION	EACH	COMMENTS
STA 383+86	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50100900 REMOVAL OF EXISTING STRUCTURES NO. 7

LOCATION	EACH	COMMENTS
STA 393+64	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50101000 REMOVAL OF EXISTING STRUCTURES NO. 8

LOCATION	EACH	COMMENTS
STA 397+12	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50101100 REMOVAL OF EXISTING STRUCTURES NO. 9

LOCATION	EACH	COMMENTS
STA 462+35	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50101200 REMOVAL OF EXISTING STRUCTURES NO. 10

LOCATION	EACH	COMMENTS
STA 467+10	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50101300 REMOVAL OF EXISTING STRUCTURES NO. 11

LOCATION	EACH	COMMENTS
STA 479+36	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50101400 REMOVAL OF EXISTING STRUCTURES NO. 12

LOCATION	EACH	COMMENTS
STA 492+30	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL	1	

50104400 CONCRETE HEADWALL REMOVAL

LOCATION		EACH	COMMENTS
STA 465+07	LT	1	SEE SPECIAL PROVISIONS FOR DETAILS
TOTAL		1	

51500100 NAME PLATES

LOCATION	EACH	COMMENTS
STA 318+25	1	Proposed SN 037-1186
STA 339+15	1	Proposed SN 037-1188
STA 375+32	1	Proposed SN 037-0178
STA 393+64	1	Proposed SN 037-1187
STA 397+17	1	Proposed SN 037-1191
STA 466+50	1	Proposed SN 037-1192
STA 479+36	1	Proposed SN 037-1189
STA 492+34	1	Proposed SN 037-1190
TOTAL	8	

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 01

LOCATION		EACH	COMMENTS
STA 318+25	LT	1	
TOTAL		1	

54001002 BOX CULVERT END SECTIONS, CULVERT NO. 02

LOCATION		EACH	COMMENTS
STA 393+64	LT & RT	2	
TOTAL		2	

54001003 BOX CULVERT END SECTIONS, CULVERT NO. 03

LOCATION		EACH	COMMENTS
STA 466+50	LT & RT	4	
TOTAL		4	

54001004 BOX CULVERT END SECTIONS, CULVERT NO. 04

LOCATION		EACH	COMMENTS
STA 479+36	LT & RT	2	
STA 492+34	LT & RT	2	
TOTAL		4	

54001005 BOX CULVERT END SECTIONS, CULVERT NO. 05

LOCATION		EACH	COMMENTS
STA 380+50	RT	2	See Detail on Parrallel Grate
TOTAL		2	

54010603 PRECAST CONCRETE BOX CULVERTS 6' X 3'

LOCATION		FOOT	COMMENTS
STA 380+50	44' RT	30	
STA 393+64	23' LT & 23' RT @ 15^ SKEW	46	
TOTAL		76	

54010906 PRECAST CONCRETE BOX CULVERTS 9' X 6'

LOCATION		FOOT	COMMENTS
STA 479+36	26' LT & 22' RT	48	
STA 492+34	50' LT & 62' RT @ 34^ SKEW	112	
TOTAL		160	

54011206 PRECAST CONCRETE BOX CULVERTS 12' X 6'

LOCATION		FOOT	COMMENTS
STA 466+50	39' LT & 29' RT	136	
TOTAL		136	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	16
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

54011208 PRECAST CONCRETE BOX CULVERTS 12' X 8'

LOCATION		FOOT	COMMENTS
STA 318+25	52' LT & 50' RT	102	
	TOTAL	102	

542A1081 PIPE CULVERTS, CLASS A, TYPE 2 36"

LOCATION		FOOT	COMMENTS
STA 397+17	59' LT & 45' RT @ 45^ SKEW	101	
	TOTAL	101	

542A1093 PIPE CULVERTS, CLASS A, TYPE 2 48"

LOCATION		FOOT	COMMENTS
STA 339+15	32' LT & 30' RT @ 15^ SKEW	62	
	TOTAL	62	

542D0220 PIPE CULVERTS, CLASS D, TYPE 1 15"

LOCATION		FOOT	COMMENTS
STA 317+00	32' LT	42	FIELD ENTRANCE
STA 371+50	32' RT	46	FIELD ENTRANCE
STA 373+57	36' LT	42	FIELD ENTRANCE
STA 398+00	40' LT	46	FIELD ENTRANCE
STA 398+25	34' RT	44	FIELD ENTRANCE
STA 461+67	31' LT	46	FIELD ENTRANCE
	TOTAL	266	

542D1087 PIPE CULVERTS, CLASS D, TYPE 2, 42"

LOCATION		FOOT	COMMENTS
STA 319+86	56' RT	72	FIELD ENTRANCE
	TOTAL	72	

54213450 END SECTIONS 15"

LOCATION		EACH	COMMENTS
STA 317+00	LT	2	
STA 371+50	RT	2	
STA 373+57	LT	2	
STA 398+00	LT	2	
STA 398+25	RT	2	
STA 461+67	LT	2	
	TOTAL	12	

54213477 END SECTIONS 42"

LOCATION		EACH	COMMENTS
STA 319+86	RT	2	FIELD ENTRANCE
	TOTAL	2	

54215408 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"

LOCATION		EACH	COMMENTS
STA 324+67	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 470+09	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 480+68	LT	1	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	3	

54215410 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"

LOCATION		EACH	COMMENTS
STA 479+36	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	1	

54261436 CONCRETE END SECTION, STANDARD 542001, 36", 1:4

LOCATION		EACH	COMMENTS
STA 397+17	LT	1	
	TOTAL	1	

54261448 CONCRETE END SECTION, STANDARD 542001, 48", 1:4

LOCATION		EACH	COMMENTS
STA 339+15	LT	1	
	TOTAL	1	

60100060 CONCRETE HEADWALL FOR PIPE DRAINS

LOCATION		EACH	COMMENTS
STA 318+25	LT & RT	4	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 339+15	LT & RT	4	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 393+64	LT & RT	2	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 397+17	LT & RT	2	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 466+50	LT & RT	2	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 479+36	LT & RT	2	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 492+30	LT & RT	2	SEE DISTRICT STD. 37.2 FOR LOCATIONS
	TOTAL	18	

60100925 PIPE DRAINS 8"

LOCATION		FOOT	COMMENTS
STA 318+25	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
STA 324+67	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
STA 339+15	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
STA 470+09	RT	25	LOCATION TO BE DETERMINED IN THE FIELD
STA 480+68	LT	25	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	110	

60100935 PIPE DRAINS 10"

LOCATION		FOOT	COMMENTS
STA 397+17	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
STA 479+36	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	40	

60100955 PIPE DRAINS 15"

LOCATION		FOOT	COMMENTS
STA 318+25	RT	20	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	20	

60107600 PIPE UNDERDRAINS 4"

LOCATION		FOOT	COMMENTS
STA 318+25	LT & RT	115	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 339+15	LT & RT	115	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 393+64	LT & RT	58	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 397+12	LT & RT	58	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 466+50	LT & RT	58	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 479+36	LT & RT	58	SEE DISTRICT STD. 37.2 FOR LOCATIONS
STA 492+30	LT & RT	58	SEE DISTRICT STD. 37.2 FOR LOCATIONS
	TOTAL	520	

61100500 EXPLORATION TRENCH 52" DEPTH

LOCATION		FOOT	COMMENTS
STA 318+25	RT	150	LOCATION TO BE DETERMINED IN THE FIELD
STA 324+67	RT	100	LOCATION TO BE DETERMINED IN THE FIELD
STA 339+15	RT	150	LOCATION TO BE DETERMINED IN THE FIELD
STA 397+17	RT	150	LOCATION TO BE DETERMINED IN THE FIELD
STA 470+09	RT	100	LOCATION TO BE DETERMINED IN THE FIELD
STA 479+36	RT	150	LOCATION TO BE DETERMINED IN THE FIELD
STA 480+68	RT	100	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	900	

61133200 FIELD TILE JUNCTION VAULTS 3' DIA.

LOCATION		EACH	COMMENTS
STA 318+25	RT	2	LOCATION TO BE DETERMINED IN THE FIELD
STA 324+67	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 339+15	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 397+17	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 470+09	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 479+36	RT	1	LOCATION TO BE DETERMINED IN THE FIELD
STA 480+68	LT	1	LOCATION TO BE DETERMINED IN THE FIELD
	TOTAL	8	

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

LOCATION				FOOT	COMMENTS
STA 373+95.70	TO	374+33.20	RT	37.5	
STA 376+30.41	TO	376+67.91	LT	37.5	
			TOTAL	75	

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION				EACH	COMMENTS
STA 374+33.20	TO	374+76.95	RT	1	
STA 374+33.20	TO	374+76.95	LT	1	
STA 375+86.66	TO	376+30.41	RT	1	
STA 375+86.66	TO	376+30.41	LT	1	
			TOTAL	4	

63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

LOCATION				EACH	COMMENTS
STA 373+45.70	TO	373+95.70	RT	1	
STA 373+83.20	TO	374+33.20	LT	1	
STA 376+30.41	TO	376+80.41	RT	1	
STA 376+67.91	TO	377+17.91	LT	1	
			TOTAL	4	

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:14:33 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	17
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

63200310 GUARDRAIL REMOVAL

LOCATION				FOOT	COMMENTS
STA	316+47	TO	319+37	290	
STA	317+08	TO	319+97	289	
STA	373+74	TO	375+08	134	
STA	373+73	TO	375+08	135	
STA	375+56	TO	380+28	472	
STA	375+55	TO	380+26	471	
STA	382+06	TO	385+09	303	
STA	382+68	TO	385+71	303	
STA	461+90	TO	464+89	299	
STA	465+27	TO	468+50	323	
STA	478+19	TO	481+43	324	
STA	477+47	TO	480+52	305	
STA	491+36	TO	493+70	234	
			TOTAL	3882	

63500105 DELINEATORS

LOCATION			EACH	COMMENTS
STA	318+25	LT & RT	2	
STA	339+15	LT & RT	2	
STA	373+21.16	RT	1	
STA	373+83.16	LT	1	
STA	376+80.45	RT	1	
STA	377+42.38	LT	1	
STA	393+64	LT & RT	2	
STA	397+17	LT & RT	2	
STA	466+50	LT & RT	2	
STA	479+36	LT & RT	2	
STA	492+30	LT & RT	2	
		TOTAL	18	

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY-MARKERS

LOCATION			EACH	COMMENTS
STA	317+00	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	317+50	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	317+75	60' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	318+00	110' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	318+00	120' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	318+50	110' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	318+50	120' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	319+00	85' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	319+00	100' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	320+00	110' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	321+00	110' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	321+00	110' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	322+00	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	322+00	110' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	323+00	95' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	324+00	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	324+00	70' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	326+20.79	60' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	326+20.79	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	337+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	338+00	60' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	338+00	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	338+50	90' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	339+00	75' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	339+25	90' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	339+50	75' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	340+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	340+50	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	375+13.89	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	378+00	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	379+50	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	379+61.92	75' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	381+00	65' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	382+00	65' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	383+00	60' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	386+00	60' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	387+00	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	392+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	393+00	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	393+61.90	70' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	394+00	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	395+00	70' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	395+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	396+00	80' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	396+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	396+25	80' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	396+50	80' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	397+00	70' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	398+00	70' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	398+62.10	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	398+50	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	461+00	60' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	461+94.49	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	462+50	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	463+50	135' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	464+00	140' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	465+00	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	466+00	125' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	466+00	86.84' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	467+61.15	100' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	469+60.53	99.12' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	472+00	105' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	474+00	100' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	476+00	100' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	478+00	90' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	478+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	479+00	85' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	479+00	75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	479+25	100' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	479+75	85' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	479+75	100' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	480+50	50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	481+25	90' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	482+00	50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	490+50	48.03' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	491+75	105' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	492+50	65' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
STA	494+00	47.10' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
		TOTAL	78	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	18
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

66700305 PERMANENT SURVEY MARKERS, TYPE II

LOCATION	EACH	COMMENTS
TO BE DETERMINED IN FIELD	7	LOCATION DETERMINED BY DISTRICT OFFICE-CHIEF OF SURVEYS
TOTAL	7	

78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION						FOOT	COMMENTS
STA 317+94	TO	318+56	Yellow	(2 Apl.)		248.00	Double Solid
STA 324+43	TO	324+76	Yellow	(2 Apl.)		132.00	Double Solid
STA 338+91	TO	339+39	Yellow	(2 Apl.)		192.00	Double Solid
STA 372+50	TO	378+00	Yellow	(2 Apl.)		1,375.00	Solid LT, Skip Dash RT
STA 378+89	TO	379+24	Yellow	(2 Apl.)		87.50	Solid LT, Skip Dash RT
STA 383+65	TO	384+07	Yellow	(2 Apl.)		21.00	Skip Dash Center
STA 393+45	TO	393+83	Yellow	(2 Apl.)		19.00	Skip Dash Center
STA 396+76	TO	397+60	Yellow	(2 Apl.)		210.00	Solid RT, Skip Dash LT
STA 462+02	TO	462+71	Yellow	(2 Apl.)		276.00	Double Solid
STA 466+25	TO	467+46	Yellow	(2 Apl.)		484.00	Double Solid
STA 479+20	TO	479+54	Yellow	(2 Apl.)		136.00	Double Solid
STA 491+97	TO	492+66	Yellow	(2 Apl.)		276.00	Double Solid
			TOTAL YELLOW:			3,456.50	
STA 317+94	TO	318+56	White	(2 Apl.)		248.00	LT & RT Edge Lines
STA 324+43	TO	324+76	White	(2 Apl.)		132.00	LT & RT Edge Lines
STA 338+91	TO	339+39	White	(2 Apl.)		192.00	LT & RT Edge Lines
STA 372+50	TO	378+00	White	(2 Apl.)		2,200.00	LT & RT Edge Lines
STA 378+89	TO	379+24	White	(2 Apl.)		140.00	LT & RT Edge Lines
STA 383+65	TO	384+07	White	(2 Apl.)		168.00	LT & RT Edge Lines
STA 393+45	TO	393+83	White	(2 Apl.)		152.00	LT & RT Edge Lines
STA 396+76	TO	397+60	White	(2 Apl.)		336.00	LT & RT Edge Lines
STA 462+02	TO	462+71	White	(2 Apl.)		276.00	LT & RT Edge Lines
STA 466+25	TO	467+46	White	(2 Apl.)		484.00	LT & RT Edge Lines
STA 479+20	TO	479+54	White	(2 Apl.)		136.00	LT & RT Edge Lines
STA 491+97	TO	492+66	White	(2 Apl.)		276.00	LT & RT Edge Lines
			TOTAL WHITE:			4,740.00	
				TOTAL		8,196.50	

78100100 RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION			EACH	COMMENTS
STA 317+50	TO	492+75	15	Two-way amber @ 80' centers, 40' centers around curve per std.
		TOTAL	15	

78200410 GUARDRAIL MARKERS, TYPE A

LOCATION				EACH	COMMENTS
STA 373+71.12	TO	376+30.41	RT	4	
STA 374+33.20	TO	376+92.46	LT	4	
			TOTAL	8	

78200520 BARRIER WALL MARKERS, TYPE B

LOCATION				EACH	COMMENTS
STA 374+76.38	TO	375+86.88	LT & RT	4	2 Markers per side
			TOTAL	4	

78201000 TERMINAL MARKER - DIRECT APPLIED

LOCATION	EACH	COMMENTS
STA 373+21.16 RT	1	
STA 373+83.16 LT	1	
STA 376+80.45 RT	1	
STA 377+42.38 LT	1	
TOTAL	4	

X2501810 SEEDING, CLASS 5 (SPECIAL)

LOCATION				ACRE	COMMENTS
STA 7+75	TO	12+75	LT & RT	0.75	MINERAL CREEK
			TOTAL	0.75	

X0323660 DROP BOX NO.1

LOCATION		EACH	COMMENTS
STA 318+25	RT	1	
	TOTAL	1	

X0323661 DROP BOX NO.2

LOCATION		EACH	COMMENTS
STA 339+15	RT	1	
	TOTAL	1	

X0323662 DROP BOX NO.3

LOCATION		EACH	COMMENTS
STA 397+17	RT	1	
	TOTAL	1	

X0327396 TRANSVERSABLE PIPE GRATES

LOCATION		FOOT	COMMENTS
STA 318+25	LT	198'-8"	12' x 8' BOX CULVERT END SECTION - 4@38'-0" AND 4@11'-8"
STA 318+25	RT	227'-11"	DROP BOX NO.1 - 5@11'-9", 5@22'-2" AND 5@11'-8"
STA 339+15	LT	47'-9"	48" PIPE CULVERT END SECTION - 2@21'-4" AND 1@ 5'-1"
STA 339+15	RT	55'	DROP BOX NO.2 - 2@5'-9", 4@5'-8" AND 2@10'-5"
STA 380+50	RT	124'-8"	6' x 3' BOX CULVERT END SECTION - 22@5'-8"
STA 393+64	LT & RT	64'	6' x 3' BOX CULVERT END SECTION - 4@16'-0"
STA 397+17	LT	16'-10"	36" PIPE CULVERT END SECTION - 1@16'-10"
STA 397+32	RT	14'	DROP BOX NO.3 - 3@4'-8"
STA 466+50	LT & RT	568'	12' x 6' BOX CULVERT END SECTION - 16@29'-8" AND 8@11'-8"
STA 479+36	LT & RT	218'-8"	9' x 6' BOX CULVERT END SECTION - 6@28'-8" AND 4@11'-8"
STA 492+34	LT & RT	218'-8"	9' x 6' BOX CULVERT END SECTION - 6@28'-8" AND 4@11'-8"
	TOTAL	1754'-2"	

Z0004552 APPROACH SLAB REMOVAL

LOCATION			SQ YD	COMMENTS
STA 374+88.31	TO	375+08.30	75.00	
STA 375+55.43	TO	375+75.54	75.00	
		TOTAL	150.00	

Z0020900 ESTABLISHING AND REFERENCING LAND SECTION MARKERS

LOCATION		EACH	COMMENTS
STA 393+86.82	9.89' LT	1	
	TOTAL	1	

Z0025500 PROPERTY MARKERS

LOCATION		EACH	COMMENTS
STA 317+00	LT	1	
STA 375+50	LT & RT	2	
STA 461+67	LT	1	
	TOTAL	4	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	19
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

HMA SCHEDULE

STATIONING			REMARKS	H.M.A. LGTH FEET	H.M.A. WIDTH FEET	H.M.A. AREA SQ. FT.	H.M.A. AREA SQ. YD.	* BIT PRIME TON	44000157 HMA SURF REMOVAL 2" SQ. YD.	40603310 HMA SURF CSE MIX "C", N50 TON	48203021 HMA SHLDR 6" SQ YD	40603310 H.M.A. SURF CRS MIX "C" N50 (SHLDR) TON
MAINLINE -- US 6 Henry County												
317+83.4	-	318+66.6	3' Sldr Both Sides	83	24	1997	221.9	0.13		24.8	55.5	6.2
324+39.7	-	324+78.8	3' Sldr Both Sides	39	24	938	104.3	0.06		11.7	26.1	2.9
338+93.3	-	339+36.6	3' Sldr Both Sides	43	24	1039	115.5	0.07		12.9	28.9	3.2
378+89.4	-	379+24.4	3' Sldr Both Sides	35	24	840	93.3	0.05		10.5	23.3	2.6
383+65.0	-	384+06.6	3' Sldr Both Sides	42	24	998	110.9	0.06		12.4	27.7	3.1
393+36.7	-	393+92.4	3' Sldr Both Sides	56	24	1337	148.5	0.08		16.6	37.1	4.2
396+81.6	-	397+53.5	3' Sldr Both Sides	72	24	1726	191.7	0.11		21.5	47.9	5.4
462+02.2	-	462+70.9	3' Sldr Both Sides	69	24	1648	183.1	0.10		20.5	45.8	5.1
466+09.8	-	467+50.2	3' Sldr Both Sides	140	24	3370	374.4	0.21		41.9	93.6	10.5
479+08.8	-	479+63.6	3' Sldr Both Sides	55	24	1315	146.1	0.08		16.4	36.5	4.1
491+91.0	-	492+76.0	3' Sldr Both Sides	85	24	2040	226.7	0.13		25.4	56.7	6.3
372+49.9	-	373+10.9		61	24	1464	162.7	0.09	162.7	18.2	108.4	12.1
374+60.9	-	376+02.4	Bridge Omission	142								
377+52.9	-	378+00.4		48	24	1140	126.7	0.07	126.7	14.2	84.4	9.5
								1.26	289.33	247.04	671.98	75.26

EARTHWORK SCHEDULE

LOCATION	20200100 EARTH EXCAVATION (CU YD)	20300100 CHANNEL EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)
US 6					
316+50.00 TO 321+00.00	5383.7		4037.8	779.0	3258.8
321+00.00 TO 326+25.00	7195.1		5396.3	269.0	5127.3
337+75.00 TO 340+50.00	45.1		33.8	331.0	-297.2
372+50.00 TO 378+00.00	1806.9		1355.2	661.2	694.0
378+00.00 TO 384+00.00	452.4		339.3	408.4	-69.1
384+00.00 TO 386+50.00	23.1		17.3	98.5	-81.2
393+00.00 TO 396+00.00	749.1		561.8	54.4	507.4
396+00.00 TO 398+75.00	792.6		594.5	158.2	436.3
461+25.00 TO 465+00.00	4992.6		3744.5	918.1	2826.4
465+00.00 TO 471+00.00	5731.1		4298.3	822.7	3475.6
471+00.00 TO 477+00.00	382.3		286.7	450.6	-163.9
477+00.00 TO 481+50.00	1770.4		1327.8	819.1	508.7
490+75.00 TO 493+75.00	870.8		653.1	457.2	195.9
Mineral Creek					
7+75.00 TO 12+75.00		748.9	561.7	0.0	561.7
TOTALS	30195.2		23208.1	6227.4	16980.7

AGGREGATE SCHEDULE

LOCATION									WIDTH FOOT	AREA SQ FT	Z0054500 ROCK FILL INCHES	Z0054500 ROCK FILL TON	48101600 AGGREGATE SHOULDERS TYPE B 8" SQ YD	35101400 AGGREGATE BASE COURSE TYPE B TON
Sta.	316	+	50	-	326	+	25	RT	5'	4875			541.7	
Sta.	316	+	50	-	325	+	25	LT	5'	4375			486.1	
Sta.	337	+	75	-	340	+	25	LT	5'	1250			138.9	
Sta.	338	+	75	-	340	+	75	RT	5'	1000			111.1	
Sta.	378	+	0	-	386	+	50	RT	5'	4250			472.2	
Sta.	378	+	0	-	380	+	25	LT	5'	1125			125.0	
Sta.	382	+	67	-	385	+	73	LT	5'	1530			170.0	
Sta.	393	+	0	-	398	+	75	RT	5'	2875			319.4	
Sta.	393	+	0	-	398	+	75	LT	5'	2875			319.4	
Sta.	461	+	25	-	467	+	50	LT	5'	3125			347.2	
Sta.	478	+	25	-	481	+	50	LT	5'	1625			180.6	
Sta.	461	+	25	-	480	+	59	RT	5'	9670			1074.4	
Sta.	490	+	75	-	492	+	75	LT	5'	1000			111.1	
Sta.	491	+	35	-	493	+	75	RT	5'	1200			133.3	
FE	317	+	0					LT	24'	856				43.3
FE	319	+	86					RT	24'	1948				98.6
FE	371	+	50					RT	24'	1389				70.3
FE	373	+	57					LT	24'	628				31.8
FE	380	+	50					RT	24'	1311				66.4
FE	398	+	0					LT	24'	1494				75.6
FE	398	+	25					RT	24'	1094				55.4
FE	461	+	67					LT	24'	823				41.7
Culvert	339	+	15							707	24"	107.4		
Culvert	393	+	64							825	36"	187.9		
Culvert	397	+	12							744	24"	113.0		
Culvert	466	+	50							4224	12"	320.7		
Culvert	479	+	36							1595	12"	121.1		
TOTAL										17638		850	4531	483

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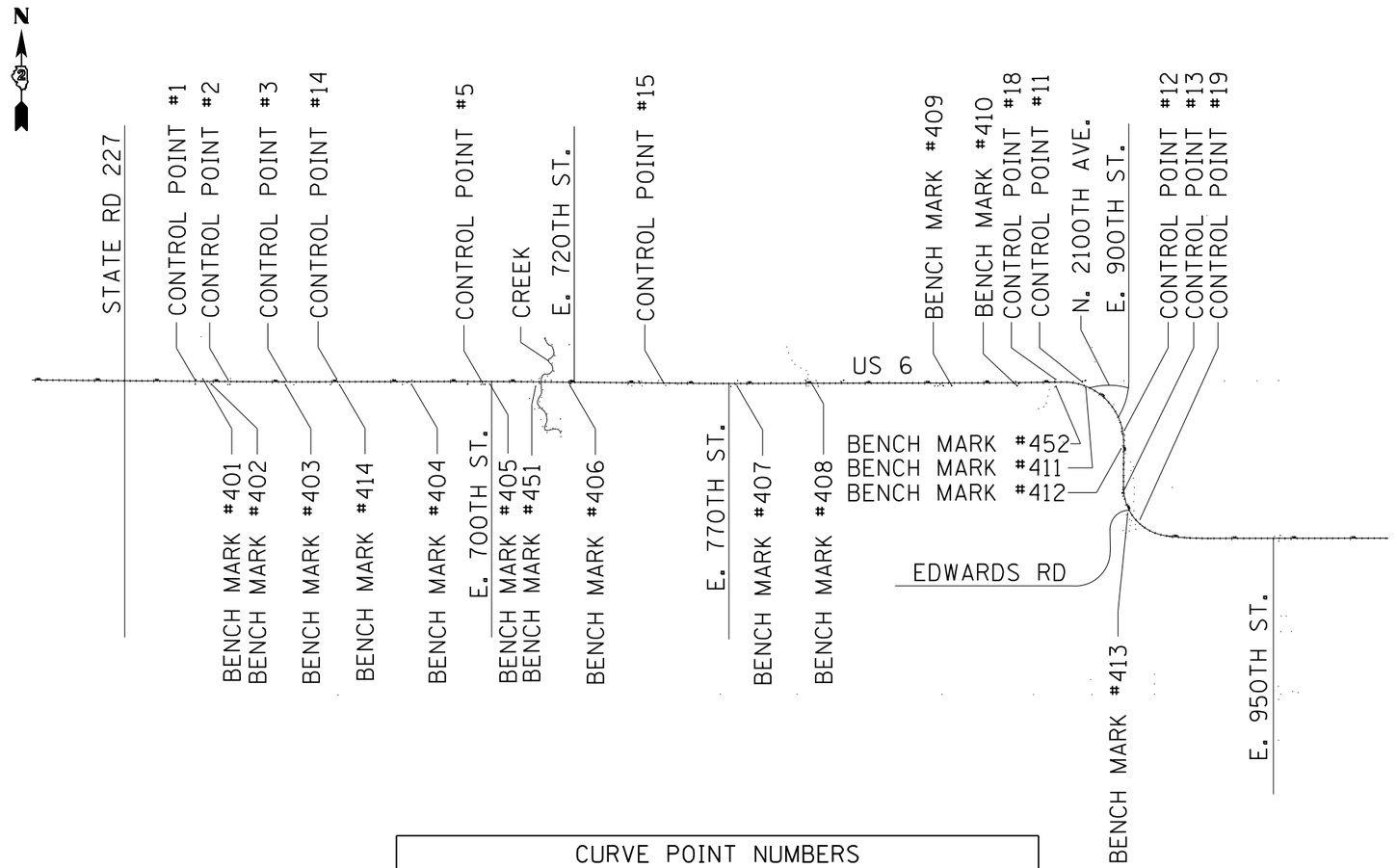
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA SCHEDULE
EARTHWORK /AGGREGATE SCHEDULE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	20
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL & VERTICAL CONTROL



CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
US_6	A017200	017200	17201	17202	17203
US_6	A017210	017210	17211	17212	17213
US_6	200	200	201	202	203
US_6	210	210	211	212	213
US_6	220	220	221	222	223
US_6	230	230	231	232	233
US_6	240	240	241	242	243
US_6	250	250	251	252	253
US_6	260	260	261	262	263
US_6	270	270	271	272	273
US_6	280	280	281	282	283

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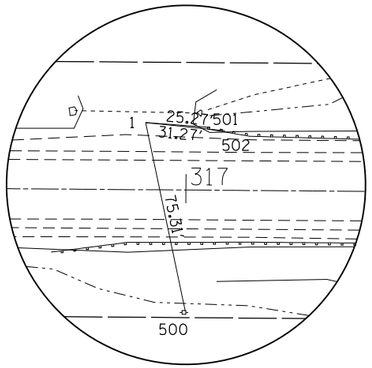
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL SHEETS

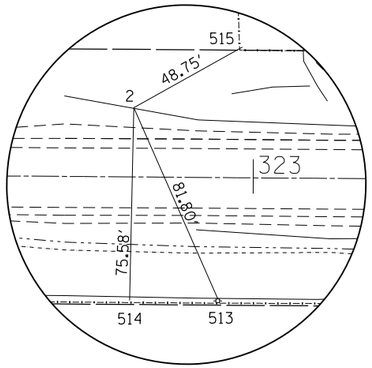
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	21
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL
POINT NO. 1



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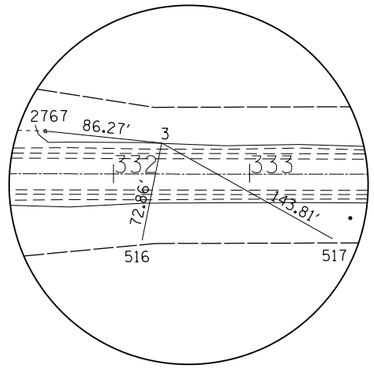
POINT NO. 2



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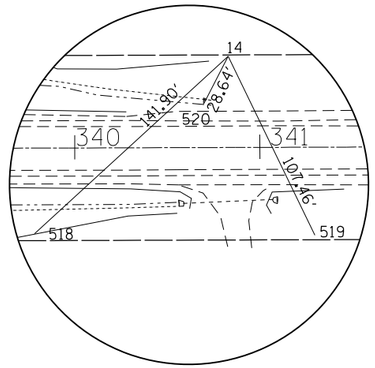
POINT NO. 3



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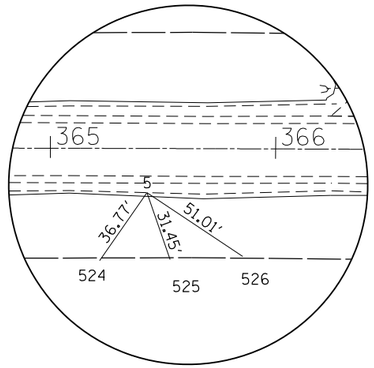
POINT NO. 14



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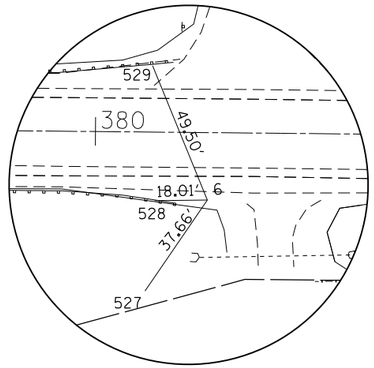

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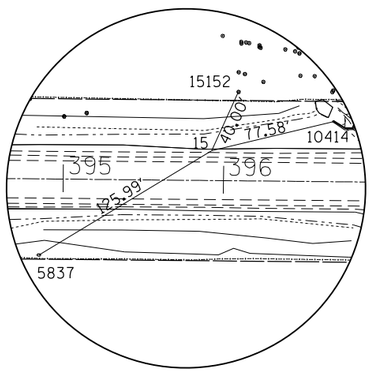
POINT NO. 6



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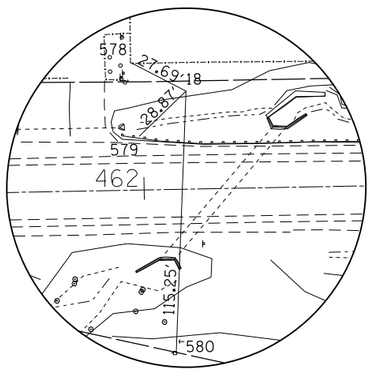
POINT NO. 15



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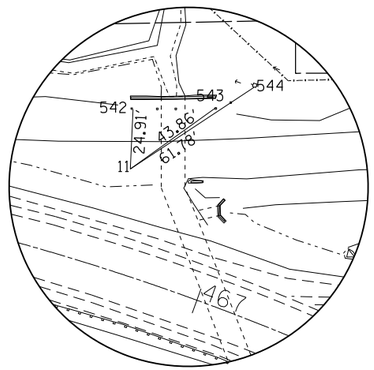
POINT NO. 18



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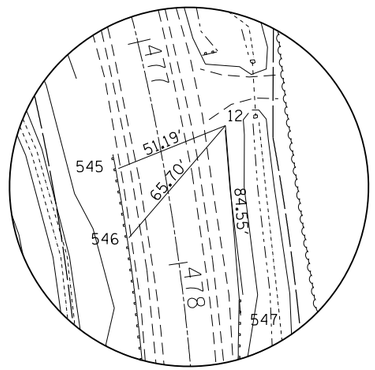
POINT NO. 11



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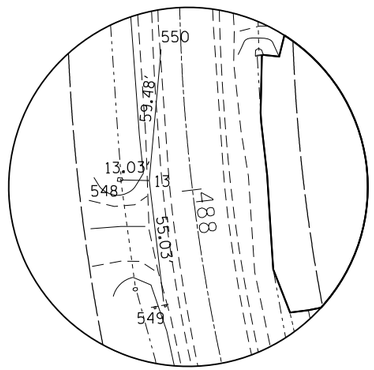
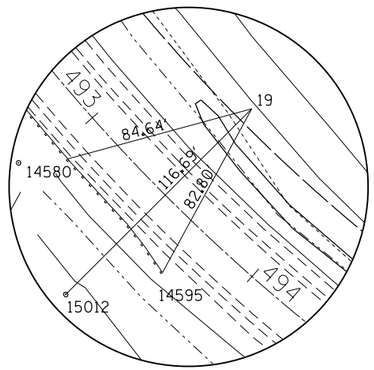
POINT NO. 12



HORIZONTAL CONTROL
POINT NO. 13



HORIZONTAL CONTROL
POINT NO. 19

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		DRAWN -	REVISED -
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	PLOT DATE = Fri Oct 19 12:01:07 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL SHEETS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	22
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL & VERTICAL CONTROL

Chain US_6 contains:
A01765 CUR A017200 CUR A017210 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250-
CUR 260 CUR 270 CUR 280 105

Beginning chain US_6 description
==========

Point A01765 N 1,744,871.6634 E 2,239,475.4060 Sta 157+41.34

Course from A01765 to PC A017200 96° 10′ 13.56″ Dist 1,886.6955′

Curve Data
•----------•

Curve A017200
P.I. Station 182+80.10 N 1,744,598.7811 E 2,241,999.4606
Delta = 6° 31′ 31.34″ (RT)
Degree = 0° 30′ 03.25″
Tangent = 652.0672′
Length = 1,302.7245′
Radius = 11,438.5205′
External = 18.5709′
Long Chord = 1,302.0206′
Mid. Ord. = 18.5408′
P.C. Station 176+28.03 N 1,744,668.8694 E 2,241,351.1710
P.T. Station 189+30.76 N 1,744,455.4731 E 2,242,635.5852
C.C. N 1,733,296.6173 E 2,240,121.6863

Course from PT A017200 to PC A017210 102° 41′ 44.91″ Dist 1,132.5706′

Curve Data
•----------•

Curve A017210
P.I. Station 205+91.27 N 1,744,090.5332 E 2,244,255.5040
Delta = 10° 33′ 05.13″ (LT)
Degree = 1° 00′ 07.64″
Tangent = 527.9469′
Length = 1,052.9080′
Radius = 5,717.4436′
External = 24.3235′
Long Chord = 1,051.4208′
Mid. Ord. = 24.2204′
P.C. Station 200+63.33 N 1,744,206.5626 E 2,243,740.4651
P.T. Station 211+16.23 N 1,744,070.7786 E 2,244,783.0812
C.C. N 1,749,784.2183 E 2,244,997.0152

Course from PT A017210 to PC 200 92° 08′ 39.77″ Dist 2,617.1285′

Curve Data
•----------•

Curve 200
P.I. Station 242+61.59 N 1,743,953.0864 E 2,247,926.2335
Delta = 1° 09′ 28.55″ (LT)
Degree = 0° 06′ 34.59″
Tangent = 528.2265′
Length = 1,056.4170′
Radius = 52,272.7718′
External = 2.6688′
Long Chord = 1,056.3990′
Mid. Ord. = 2.6687′
P.C. Station 237+33.36 N 1,743,972.8514 E 2,247,398.3769
P.T. Station 247+89.78 N 1,743,943.9924 E 2,248,454.3817
C.C. N 1,796,209.0171 E 2,249,354.3082

Course from PT 200 to PC 210 90° 59′ 11.22″ Dist 2,323.7985′

Curve Data
•----------•

Curve 210
P.I. Station 275+76.61 N 1,743,896.0144 E 2,251,240.8002
Delta = 0° 33′ 16.65″ (LT)
Degree = 0° 03′ 35.61″
Tangent = 463.0332′
Length = 926.0591′
Radius = 95,666.8302′
External = 1.1205′
Long Chord = 926.0555′
Mid. Ord. = 1.1205′
P.C. Station 271+13.58 N 1,743,903.9860 E 2,250,777.8357
P.T. Station 280+39.64 N 1,743,892.5247 E 2,251,703.8203
C.C. N 1,839,556.6378 E 2,252,424.8332

Course from PT 210 to PC 220 90° 25′ 54.57″ Dist 4,703.3189′

Curve Data
•----------•

Curve 220
P.I. Station 331+99.94 N 1,743,853.6330 E 2,256,863.9786
Delta = 0° 36′ 47.93″ (LT)
Degree = 0° 04′ 01.58″
Tangent = 456.9860′
Length = 913.9633′
Radius = 85,382.5609′
External = 1.2229′
Long Chord = 913.9590′
Mid. Ord. = 1.2229′
P.C. Station 327+42.96 N 1,743,857.0771 E 2,256,407.0055
P.T. Station 336+56.92 N 1,743,855.0805 E 2,257,320.9623
C.C. N 1,829,237.2131 E 2,257,050.5089

Course from PT 220 to PC 230 89° 49′ 06.65″ Dist 2,405.9941′

Curve Data
•----------•

Curve 230
P.I. Station 365+62.91 N 1,743,864.2854 E 2,260,226.9418
Delta = 0° 43′ 59.48″ (RT)
Degree = 0° 04′ 23.95″
Tangent = 500.0000′
Length = 999.9864′
Radius = 78,145.0030′
External = 1.5996′
Long Chord = 999.9795′
Mid. Ord. = 1.5995′
P.C. Station 360+62.91 N 1,743,862.7016 E 2,259,726.9443
P.T. Station 370+62.90 N 1,743,859.4709 E 2,260,726.9186
C.C. N 1,665,718.0906 E 2,259,974.4723

Course from PT 230 to PC 240 90° 33′ 06.12″ Dist 2,923.1046′

Curve Data
•----------•

Curve 240
P.I. Station 404+42.83 N 1,743,826.9261 E 2,264,106.6923
Delta = 0° 41′ 56.20″ (LT)
Degree = 0° 04′ 35.40″
Tangent = 456.8257′
Length = 913.6402′
Radius = 74,895.4760′
External = 1.3932′
Long Chord = 913.6345′
Mid. Ord. = 1.3932′
P.C. Station 399+86.00 N 1,743,831.3248 E 2,263,649.8877
P.T. Station 408+99.64 N 1,743,828.1001 E 2,264,563.5165
C.C. N 1,818,723.3288 E 2,264,371.0448

Course from PT 240 to PC 250 89° 51′ 09.93″ Dist 4,210.5391′

Curve Data
•----------•

Curve 250
P.I. Station 456+23.96 N 1,743,840.2410 E 2,269,287.8137
Delta = 0° 53′ 43.95″ (LT)
Degree = 0° 05′ 13.76″
Tangent = 513.7738′
Length = 1,027.5266′
Radius = 65,740.0257′
External = 2.0076′
Long Chord = 1,027.5161′
Mid. Ord. = 2.0075′
P.C. Station 451+10.18 N 1,743,838.9206 E 2,268,774.0417
P.T. Station 461+37.71 N 1,743,849.5912 E 2,269,801.5024
C.C. N 1,809,578.7292 E 2,268,605.0983

Course from PT 250 to PC 260 88° 57′ 25.98″ Dist 189.5057′

Curve Data
•----------•

Curve 260
P.I. Station 473+62.87 N 1,743,871.8879 E 2,271,026.4588
Delta = 91° 17′ 26.58″ (RT)
Degree = 5° 39′ 30.18″
Tangent = 1,035.6537′
Length = 1,613.3710′
Radius = 1,012.5821′
External = 435.8312′
Long Chord = 1,448.0458′
Mid. Ord. = 304.6885′
P.C. Station 463+27.22 N 1,743,853.0400 E 2,269,990.9767
P.T. Station 479+40.59 N 1,742,836.2439 E 2,271,021.9773
C.C. N 1,742,840.6255 E 2,270,009.4047

Course from PT 260 to PC 270 180° 14′ 52.55″ Dist 757.4550′

Curve Data
•----------•

Curve 270
P.I. Station 494+25.33 N 1,741,351.5162 E 2,271,015.5525
Delta = 82° 56′ 53.01″ (LT)
Degree = 6° 57′ 48.67″
Tangent = 727.2866′
Length = 1,191.1801′
Radius = 822.7991′
External = 275.3558′
Long Chord = 1,089.8476′
Mid. Ord. = 206.3119′
P.C. Station 486+98.04 N 1,742,078.7959 E 2,271,018.6997
P.T. Station 498+89.22 N 1,741,259.1054 E 2,271,736.9442
C.C. N 1,742,075.2355 E 2,271,841.4911

Curve Data
•----------•

Curve 280
P.I. Station 502+38.48 N 1,741,214.7274 E 2,272,083.3750
Delta = 7° 20′ 16.78″ (LT)
Degree = 1° 03′ 06.98″
Tangent = 349.2617′
Length = 697.5683′
Radius = 5,446.6818′
External = 11.1865′
Long Chord = 697.0916′
Mid. Ord. = 11.1636′
P.C. Station 498+89.22 N 1,741,259.1054 E 2,271,736.9442
P.T. Station 505+86.79 N 1,741,214.9597 E 2,272,432.6366
C.C. N 1,746,661.6403 E 2,272,429.0128

Course from PT 280 to 105 89° 57′ 42.77″ Dist 3,040.6005′

Point 105 N 1,741,216.9827 E 2,275,473.2364 Sta 536+27.39

==========
Ending chain US_6 description

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		DRAWN -	REVISED -
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	PLOT DATE = Fri Oct 19 12:01:05 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL SHEETS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	23
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL & VERTICAL CONTROL

Chain CREEK contains:
12345 12346 12347 12348 12349 12350 12351 12352 12353 12354 12355 12356 12357 -
12358 12359 12360 12361 12362 12363 12364 12365 12366 12367 12368 12369 12370 1-
2371 12372 MM01 12373 12374 12375 12376 12377 MM02 12378 12379 12380 12381 1238-
2 12383 12384 12385 12386 12387 12388 12389 12390 12391 12392 12393 12394 12395-
12396 12397 12398 12399 12400 12401 12402 12403 12404 12405

Beginning chain CREEK description

Point 12345 N 1,744,596.3140 E 2,261,247.4728 Sta 0+00.00

Course from 12345 to 12346 143° 12′ 30.50″ Dist 49.0880′

Point 12346 N 1,744,557.0033 E 2,261,276.8718 Sta 0+49.09

Course from 12346 to 12347 160° 28′ 40.46″ Dist 40.5512′

Point 12347 N 1,744,518.7833 E 2,261,290.4228 Sta 0+89.64

Course from 12347 to 12348 138° 35′ 52.34″ Dist 53.3096′

Point 12348 N 1,744,478.7966 E 2,261,325.6785 Sta 1+42.95

Course from 12348 to 12349 104° 50′ 57.68″ Dist 29.5429′

Point 12349 N 1,744,471.2253 E 2,261,354.2348 Sta 1+72.49

Course from 12349 to 12350 112° 23′ 31.09″ Dist 23.4393′

Point 12350 N 1,744,462.2963 E 2,261,375.9068 Sta 1+95.93

Course from 12350 to 12351 150° 32′ 13.02″ Dist 22.4677′

Point 12351 N 1,744,442.7343 E 2,261,386.9578 Sta 2+18.40

Course from 12351 to 12352 160° 28′ 23.08″ Dist 40.0898′

Point 12352 N 1,744,404.9503 E 2,261,400.3578 Sta 2+58.49

Course from 12352 to 12353 164° 36′ 50.42″ Dist 37.2832′

Point 12353 N 1,744,369.0033 E 2,261,410.2498 Sta 2+95.77

Course from 12353 to 12354 170° 20′ 56.10″ Dist 27.0564′

Point 12354 N 1,744,342.3299 E 2,261,414.7857 Sta 3+22.83

Course from 12354 to 12355 195° 20′ 31.56″ Dist 35.6552′

Point 12355 N 1,744,307.9454 E 2,261,405.3520 Sta 3+58.48

Course from 12355 to 12356 217° 47′ 28.97″ Dist 31.7966′

Point 12356 N 1,744,282.8182 E 2,261,385.8675 Sta 3+90.28

Course from 12356 to 12357 224° 13′ 44.69″ Dist 30.5459′

Point 12357 N 1,744,260.9303 E 2,261,364.5608 Sta 4+20.83

Course from 12357 to 12358 235° 53′ 12.09″ Dist 47.3083′

Point 12358 N 1,744,234.3983 E 2,261,325.3928 Sta 4+68.13

Course from 12358 to 12359 198° 02′ 32.39″ Dist 24.1538′

Point 12359 N 1,744,211.4323 E 2,261,317.9119 Sta 4+92.29

Course from 12359 to 12360 147° 57′ 02.79″ Dist 45.3708′

Point 12360 N 1,744,172.9763 E 2,261,341.9878 Sta 5+37.66

Course from 12360 to 12361 128° 47′ 22.39″ Dist 37.0350′

Point 12361 N 1,744,149.7753 E 2,261,370.8548 Sta 5+74.69

Course from 12361 to 12362 153° 41′ 15.21″ Dist 32.9667′

Point 12362 N 1,744,120.2243 E 2,261,385.4678 Sta 6+07.66

Course from 12362 to 12363 169° 25′ 08.36″ Dist 38.6166′

Point 12363 N 1,744,082.2643 E 2,261,392.5588 Sta 6+46.28

Course from 12363 to 12364 184° 40′ 33.67″ Dist 36.0615′

Point 12364 N 1,744,046.3228 E 2,261,389.6190 Sta 6+82.34

Course from 12364 to 12365 217° 22′ 10.00″ Dist 22.2926′

Point 12365 N 1,744,028.6061 E 2,261,376.0885 Sta 7+04.63

Course from 12365 to 12366 224° 20′ 20.13″ Dist 27.4886′

Point 12366 N 1,744,008.9457 E 2,261,356.8766 Sta 7+32.12

Course from 12366 to 12367 233° 05′ 57.29″ Dist 27.7637′

Point 12367 N 1,743,992.2755 E 2,261,334.6746 Sta 7+59.88

Course from 12367 to 12368 251° 32′ 28.78″ Dist 27.9803′

Point 12368 N 1,743,983.4163 E 2,261,308.1338 Sta 7+87.86

Course from 12368 to 12369 271° 04′ 59.48″ Dist 21.9529′

Point 12369 N 1,743,983.8313 E 2,261,286.1848 Sta 8+09.82

Course from 12369 to 12370 281° 15′ 20.39″ Dist 24.0180′

Point 12370 N 1,743,988.5193 E 2,261,262.6288 Sta 8+33.83

Course from 12370 to 12371 257° 28′ 54.73″ Dist 19.1058′

Point 12371 N 1,743,984.3782 E 2,261,243.9772 Sta 8+52.94

Course from 12371 to 12372 241° 09′ 26.36″ Dist 24.3842′

Point 12372 N 1,743,972.6151 E 2,261,222.6180 Sta 8+77.32

Course from 12372 to MM01 208° 48′ 38.86″ Dist 20.4756′

Point MM01 N 1,743,954.6741 E 2,261,212.7504 Sta 8+97.80

Course from MM01 to 12373 188° 23′ 21.59″ Dist 13.0686′

Point 12373 N 1,743,941.7453 E 2,261,210.8437 Sta 9+10.87

Course from 12373 to 12374 195° 50′ 38.27″ Dist 32.2362′

Point 12374 N 1,743,910.7338 E 2,261,202.0426 Sta 9+43.10

Course from 12374 to 12375 188° 45′ 35.19″ Dist 39.1788′

Point 12375 N 1,743,872.0120 E 2,261,196.0760 Sta 9+82.28

Course from 12375 to 12376 180° 08′ 11.42″ Dist 35.3110′

Point 12376 N 1,743,836.7011 E 2,261,195.9919 Sta 10+17.59

Course from 12376 to 12377 175° 28′ 47.69″ Dist 49.4606′

Point 12377 N 1,743,787.3943 E 2,261,199.8898 Sta 10+67.06

Course from 12377 to MM02 184° 22′ 19.77″ Dist 34.2828′

Point MM02 N 1,743,753.2113 E 2,261,197.2763 Sta 11+01.34

Course from MM02 to 12378 173° 17′ 20.85″ Dist 69.2484′

Point 12378 N 1,743,684.4374 E 2,261,205.3686 Sta 11+70.59

Course from 12378 to 12379 193° 52′ 53.24″ Dist 47.0260′

Point 12379 N 1,743,638.7849 E 2,261,194.0864 Sta 12+17.61

Course from 12379 to 12380 212° 23′ 01.99″ Dist 46.9427′

Point 12380 N 1,743,599.1428 E 2,261,168.9444 Sta 12+64.56

Course from 12380 to 12381 214° 23′ 46.11″ Dist 35.3319′

Point 12381 N 1,743,569.9886 E 2,261,148.9850 Sta 12+99.89

Course from 12381 to 12382 200° 42′ 13.12″ Dist 54.3422′

Point 12382 N 1,743,519.1557 E 2,261,129.7732 Sta 13+54.23

Course from 12382 to 12383 168° 31′ 28.10″ Dist 40.5805′

Point 12383 N 1,743,479.3864 E 2,261,137.8466 Sta 13+94.81

Course from 12383 to 12384 147° 56′ 52.46″ Dist 48.5975′

Point 12384 N 1,743,438.1968 E 2,261,163.6368 Sta 14+43.41

Course from 12384 to 12385 134° 26′ 14.48″ Dist 26.5329′

Point 12385 N 1,743,419.6203 E 2,261,182.5818 Sta 14+69.94

Course from 12385 to 12386 135° 16′ 23.03″ Dist 29.5256′

Point 12386 N 1,743,398.6433 E 2,261,203.3598 Sta 14+99.47

Course from 12386 to 12387 125° 30′ 36.41″ Dist 36.0043′

Point 12387 N 1,743,377.7303 E 2,261,232.6678 Sta 15+35.47

Course from 12387 to 12388 133° 38′ 44.81″ Dist 25.9522′

Point 12388 N 1,743,359.8182 E 2,261,251.4474 Sta 15+61.42

Course from 12388 to 12389 146° 53′ 50.01″ Dist 28.9211′

Point 12389 N 1,743,335.5912 E 2,261,267.2424 Sta 15+90.34

Course from 12389 to 12390 159° 13′ 02.43″ Dist 42.1723′

Point 12390 N 1,743,296.1629 E 2,261,282.2062 Sta 16+32.52

Course from 12390 to 12391 164° 44′ 16.47″ Dist 47.0593′

Point 12391 N 1,743,250.7633 E 2,261,294.5938 Sta 16+79.57

Course from 12391 to 12392 179° 00′ 40.07″ Dist 52.9289′

Point 12392 N 1,743,197.8423 E 2,261,295.5072 Sta 17+32.50

Course from 12392 to 12393 193° 15′ 58.22″ Dist 23.8063′

Point 12393 N 1,743,174.6713 E 2,261,290.0443 Sta 17+56.31

Course from 12393 to 12394 204° 17′ 18.52″ Dist 52.5472′

Point 12394 N 1,743,126.7753 E 2,261,268.4300 Sta 18+08.86

Course from 12394 to 12395 198° 50′ 58.57″ Dist 32.7147′

Point 12395 N 1,743,095.8152 E 2,261,257.8604 Sta 18+41.57

Course from 12395 to 12396 183° 24′ 50.18″ Dist 38.2307′

Point 12396 N 1,743,057.6523 E 2,261,255.5838 Sta 18+79.80

Course from 12396 to 12397 148° 45′ 05.64″ Dist 18.2940′

Point 12397 N 1,743,042.0123 E 2,261,265.0738 Sta 18+98.10

Course from 12397 to 12398 95° 08′ 00.32″ Dist 50.3851′

Point 12398 N 1,743,037.5041 E 2,261,315.2568 Sta 19+48.48

Course from 12398 to 12399 76° 00′ 42.70″ Dist 24.0742′

Point 12399 N 1,743,043.3233 E 2,261,338.6170 Sta 19+72.56

Course from 12399 to 12400 76° 35′ 30.68″ Dist 60.4333′

Point 12400 N 1,743,057.3370 E 2,261,397.4031 Sta 20+32.99

Course from 12400 to 12401 84° 06′ 23.30″ Dist 37.0112′

Point 12401 N 1,743,061.1373 E 2,261,434.2187 Sta 20+70.00

Course from 12401 to 12402 94° 22′ 22.55″ Dist 40.4962′

Point 12402 N 1,743,058.0496 E 2,261,474.5970 Sta 21+10.50

Course from 12402 to 12403 121° 34′ 41.39″ Dist 30.3895′

Point 12403 N 1,743,042.1357 E 2,261,500.4866 Sta 21+40.89

Course from 12403 to 12404 145° 20′ 11.59″ Dist 27.1449′

Point 12404 N 1,743,019.8089 E 2,261,515.9254 Sta 21+68.03

Course from 12404 to 12405 163° 00′ 16.96″ Dist 39.2068′

Point 12405 N 1,742,982.3144 E 2,261,527.3853 Sta 22+07.24

Ending chain CREEK description

FILE NAME = c:\pw_work\pwidot\cushmanbw\d0169166\D2088809-sht-ATB.dgn	USER NAME = cushmanbw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			226	3T & 3BR-1	HENRY	210	24
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 64F25		
	PLOT DATE = Fri Oct 19 12:01:08 2012	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1743890.1290	2255358.2760	638.7665	US_6	316+94.01	25.147' LT	GPS CONTROL POINT, PIN
2	1743887.9197	2255917.2519	642.2833	US_6	322+52.98	27.1506' LT	GPS CONTROL POINT, PIN
3	1743877.5994	2256899.4205	661.7991	US_6	332+35.34	22.8135' LT	GPS CONTROL POINT, PIN
4	1743841.4538	2258936.5783	651.7343	US_6	352+72.48	18.7442' RT	GPS CONTROL POINT, PIN
5	1743843.1556	2260206.9304	643.0784	US_6	365+42.96	19.5922' RT	GPS CONTROL POINT, PIN
6	1743827.0855	2261702.1766	607.9307	US_6	380+38.42	22.9933' RT	GPS CONTROL POINT, PIN
7	1743807.8659	2264486.9200	642.0729	US_6	408+23.02	20.0765' RT	GPS CONTROL POINT, PIN
8	1743853.9974	2266268.2505	642.6664	US_6	426+04.44	21.5163' LT	GPS CONTROL POINT, PIN
9	1743815.8840	2267928.3672	654.9112	US_6	442+64.45	20.8633' RT	GPS CONTROL POINT, PIN
10	1743820.0116	2269253.0882	650.9210	US_6	455+89.02	21.8845' RT	GPS CONTROL POINT, PIN
11	1743846.5150	2270328.7800	632.3804	US_6	466+56.95	42.7918' LT	GPS CONTROL POINT, PIN
12	1743037.6166	2271033.4402	642.0481	US_6	477+43.77	30.2286' LT	GPS CONTROL POINT, GPS CONTROL POINT
13	1741981.4513	2271005.5849	659.7227	US_6	487+93.53	18.3516' RT	GPS CONTROL POINT, PIN
14	1743905.7087	2257746.9154	651.9980	US_6	340+83.03	49.2787' LT	GPS CONTROL POINT, PIN
15	1743853.9060	2263256.5060	616.5150	US_6	395+92.42	18.7923' LT	GPS CONTROL POINT, REBAR
16	1743851.9610	2265672.2270	630.3410	US_6	420+08.41	21.0116' LT	GPS CONTROL POINT, REBAR
18	1743894.6050	2269882.3220	636.1200	US_6	462+19.34	43.5356' LT	GPS CONTROL POINT, REBAR
19	1741532.2000	2271297.6150	659.3000	US_6	493+47.19	54.2363' LT	GPS CONTROL POINT, REBAR

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1743865.3383	2262847.6630	609.1653	US_6	391+83.49	26.2874' LT	TOPO SURVEY POINT, TOPO SURVEY POINT
106	1743841.3550	2255606.1730	637.7560	US_6	319+42.26	21.7573' RT	SURVEY WORK POINT, NAIL
107	1743886.0450	2261032.1460	615.3440	US_6	373+67.86	29.5118' LT	SURVEY WORK POINT, NAIL
108	1743721.2390	2261225.9480	606.1820	US_6	375+63.24	133.4205' RT	SURVEY WORK POINT, NAIL
115	1743952.5130	2261305.7590	606.4170	US_6	376+40.82	98.6113' LT	SURVEY WORK POINT, NAIL
116	1744035.3600	2261413.7090	605.9600	US_6	377+47.96	182.4939' LT	SURVEY WORK POINT, NAIL
122	1743826.3350	2261172.4120	605.4140	US_6	375+08.69	28.8448' RT	SURVEY WORK POINT, NAIL
128	1743914.9900	2261170.5610	608.5800	US_6	375+05.99	59.7882' LT	SURVEY WORK POINT, NAIL
133	1743575.6520	2261001.9670	606.7020	US_6	373+40.67	281.1574' RT	SURVEY WORK POINT, NAIL
134	1743595.3180	2261204.1570	606.3500	US_6	375+42.66	259.5454' RT	SURVEY WORK POINT, NAIL
135	1743810.2560	2263498.7370	620.7780	US_6	398+35.06	22.5232' RT	SURVEY WORK POINT, POC
136	1743850.8520	2265080.8240	636.5670	US_6	414+17.01	21.4224' LT	SURVEY WORK POINT, NAIL
137	1743860.1870	2267072.0400	651.1230	US_6	434+08.24	25.6402' LT	GPS CONTROL POINT, NAIL
138	1743876.3380	2268722.7890	648.0140	US_6	450+59.03	37.549' LT	SURVEY WORK POINT, NAIL
139	1743477.8050	2270857.6760	643.5770	US_6	472+83.86	48.3429' LT	SURVEY WORK POINT, NAIL
140	1742505.4970	2271042.6760	647.3500	US_6	482+71.24	22.1297' LT	SURVEY WORK POINT, NAIL
141	1743982.3070	2265701.6790	623.7090	US_6	420+38.20	151.2815' LT	SURVEY WORK POINT, NAIL
142	1744048.3870	2265671.4040	623.3700	US_6	420+08.09	217.439' LT	SURVEY WORK POINT, NAIL
143	1744087.1440	2265578.8880	622.5360	US_6	419+15.68	256.4337' LT	SURVEY WORK POINT, NAIL
148	1743766.4070	2269859.2970	635.1510	US_6	461+93.98	84.2222' RT	SURVEY WORK POINT, NAIL
149	1743724.3790	2269768.5010	635.4570	US_6	461+02.50	124.6003' RT	SURVEY WORK POINT, NAIL
150	1743614.2580	2269746.2590	637.8960	US_6	460+78.40	234.3156' RT	SURVEY WORK POINT, NAIL
154	1743865.6820	2270177.9320	633.2970	US_6	465+10.65	26.2356' LT	SURVEY WORK POINT, NAIL
157	1742864.5320	2271046.1780	642.9200	US_6	479+12.86	24.4668' LT	SURVEY WORK POINT, NAIL
158	1742644.7790	2271047.5810	643.4800	US_6	481+31.94	26.4319' LT	SURVEY WORK POINT, NAIL
159	1742360.0570	2271147.8870	645.7540	US_6	484+16.22	127.9691' LT	SURVEY WORK POINT, NAIL
160	1742504.7730	2271138.8900	639.8780	US_6	482+71.55	118.3459' LT	SURVEY WORK POINT, NAIL
161	1742425.4570	2271189.0820	640.1520	US_6	483+50.65	168.8807' LT	SURVEY WORK POINT, NAIL
162	1742231.1240	2271187.7430	647.1920	US_6	485+44.98	168.3826' LT	SURVEY WORK POINT, NAIL
163	1742072.9600	2271202.1000	651.9040	US_6	487+04.53	183.404' LT	SURVEY WORK POINT, NAIL
164	1741960.3840	2271202.0100	652.9910	US_6	488+47.82	173.0862' LT	SURVEY WORK POINT, NAIL
165	1741836.1930	2271190.4590	655.4810	US_6	489+91.14	129.269' LT	SURVEY WORK POINT, NAIL
166	1741682.7450	2271195.2280	656.0790	US_6	491+50.68	66.6875' LT	SURVEY WORK POINT, NAIL
167	1741538.0470	2271123.2340	660.0380	US_6	492+29.97	74.1204' RT	SURVEY WORK POINT, NAIL
168	1741339.0870	2271117.5790	662.6480	US_6	493+54.72	209.6559' RT	SURVEY WORK POINT, NAIL
169	1741515.7380	2271158.4620	648.1390	US_6	492+66.29	60.1313' RT	SURVEY WORK POINT, NAIL
170	1741432.6770	2271133.5400	649.8510	US_6	493+08.02	133.2742' RT	SURVEY WORK POINT, NAIL
171	1743821.0485	2259960.1305	642.2433	US_6	362+96.09	42.0438' RT	TOPO SURVEY POINT, NAIL
1102	1743911.1120	2260347.6230	646.3730	US_6	366+83.36	48.9087' LT	GPS CONTROL POINT, REBAR

FILE NAME = c:\pw_work\pwidot\cushmanbw\d0169166\D2088809-sht-ATB.dgn	USER NAME = hogensonjd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:14:38 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL SHEETS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	25
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL & VERTICAL CONTROL

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1743845.4156	2250674.2012	657.4923	US_6	270+10.97	60.3459' RT	BOLT, TOP
401	1743906.0850	2255489.9094	625.9190	US_6	318+25.52	42.0946' LT	HEADWALL, CHISELED SQUARE
402	1743816.9552	2255632.8422	637.7747	US_6	319+69.12	45.9554' RT	FENCE POST, TOP
403	1743804.9202	2256883.9794	666.5211	US_6	332+20.03	49.8943' RT	R.O.W. MARKER, TOP
404	1743811.4708	2259011.7630	655.8194	US_6	353+47.57	48.9652' RT	POWER POLE WITH TRANSFORMER, POWER POLE WITH TRANSFORMER
405	1743817.8214	2260331.2254	645.6621	US_6	366+67.40	44.4574' RT	REFERENCE CORNER, REFERENCE CORNER
406	1743798.5348	2261679.7373	605.2009	US_6	380+16.26	51.7588' RT	FENCE POST, TOP
407	1743782.9439	2264502.2092	643.7912	US_6	408+38.26	45.0237' RT	POWER POLE WITH TRANSFORMER, RAIL ROAD SPIKE
408	1743799.2541	2265775.2482	628.3512	US_6	421+11.30	31.9599' RT	HEADWALL, CUT SQUARE
409	1743790.1231	2268122.5004	655.6790	US_6	444+58.52	47.123' RT	POWER POLE, BENCH TIE
410	1743791.3694	2269224.6302	656.0103	US_6	455+60.31	50.2512' RT	R.O.W. MARKER, TOP
411	1743760.4907	2270382.2202	632.9560	US_6	467+35.55	20.0383' RT	HEADWALL, CHISELED SQUARE
412	1742725.5618	2270979.5421	641.8456	US_6	480+51.45	41.9559' RT	FENCE POST, TOP
413	1741635.8149	2271090.8594	661.0268	US_6	491+37.37	46.993' RT	FENCE POST, TOP
414	1743809.0073	2257793.7885	652.7501	US_6	341+29.60	47.5707' RT	POWER POLE, POWER POLE
450	1743854.9172	2253971.3965	627.2096	US_6	303+07.43	20.5163' RT	HEADWALL, HEADWALL
451	1743785.4761	2261105.0359	609.9220	US_6	374+41.71	70.3506' RT	FENCE POST, TOP
452	1743779.7903	2269881.3989	636.8526	US_6	462+16.32	71.2433' RT	FENCE POST, TOP

REFERENCE TIES

POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
500	1743817.6559	2255363.7903	US_6	317+00.07	47.2825' RT	POWER POLE, SHINER
501	1743889.4754	2255373.4729	US_6	317+09.21	24.6079' LT	GUARDPOST, SHINER
502	1743888.1285	2255379.3793	US_6	317+15.13	23.3056' LT	GUARDPOST, SHINER
513	1743813.0495	2255950.1966	US_6	322+86.49	47.4692' RT	POWER POLE, SHINER
514	1743812.3562	2255915.6583	US_6	322+51.96	48.4228' RT	FENCE POST, SHINER
515	1743911.6630	2255959.8237	US_6	322+95.38	51.214' LT	FENCE POST, SHINER
516	1743806.1569	2256885.1101	US_6	332+21.16	48.6554' RT	POWER POLE, SHINER
517	1743807.2631	2257024.8594	US_6	333+60.83	47.3929' RT	POWER POLE, SHINER
518	1743809.8031	2257642.3235	US_6	339+78.14	46.2951' RT	POWER POLE, SHINER
519	1743809.0073	2257793.7885	US_6	341+29.60	47.5707' RT	POWER POLE, SHINER
520	1743880.2093	2257733.8665	US_6	340+69.90	23.8208' LT	MAILBOX, SHINER
524	1743812.9851	2260185.9147	US_6	365+22.02	49.8223' RT	FENCE POST, SHINER
525	1743813.4144	2260217.1669	US_6	365+53.29	49.3021' RT	FENCE POST, SHINER
526	1743814.8445	2260249.3577	US_6	365+85.50	47.7654' RT	POWER POLE, SHINER
527	1743796.0030	2261680.9065	US_6	380+17.45	54.2792' RT	POWER POLE, SHINER
528	1743826.8436	2261684.1697	US_6	380+20.42	23.4086' RT	GUARDPOST, SHINER
529	1743872.9065	2261683.4435	US_6	380+19.25	22.6452' LT	GUARDPOST, SHINER
542	1743871.4027	2270329.9121	US_6	466+50.90	66.8745' LT	GUARDPOST, SHINER
543	1743872.0839	2270364.4179	US_6	466+81.30	78.2619' LT	GUARDPOST, SHINER
544	1743880.5557	2270380.3399	US_6	466+92.58	91.5228' LT	POWER POLE, SHINER
545	1743018.5301	2270985.9425	US_6	477+53.74	19.9714' RT	GUARDPOST, SHINER
546	1742987.8140	2270990.5921	US_6	477+85.43	20.4162' RT	GUARDPOST, SHINER
547	1742953.3397	2271040.1600	US_6	478+25.92	24.3176' LT	GUARDPOST, SHINER
548	1741981.7242	2270992.5541	US_6	487+91.87	31.2725' RT	PIPE, PVC
549	1741926.8093	2271012.0515	US_6	488+47.30	19.8161' RT	SIGN, SIGN
550	1742040.6905	2271010.8958	US_6	487+35.80	8.5142' RT	PAVEMENT STATION NUMBER, PAINTED
578	1743907.2900	2269857.7110	US_6	461+94.96	56.6664' LT	824 PHYSICAL TIES, FENCE CORNER
579	1743874.5360	2269861.5650	US_6	461+98.22	23.8476' LT	824 PHYSICAL TIES, GUARDRAIL
580	1743779.4370	2269878.0780	US_6	462+13.00	71.5361' RT	PHYSICAL TIES, POWER POLE
2767	1743886.3010	2256813.5990	US_6	331+49.47	31.3201' LT	14" PCP PIPE CULVERT
5837	1743788.7300	2263148.6800	US_6	394+85.23	47.4189' RT	POWER POLE
15152	1743890.2974	2263273.0547	US_6	396+08.66	55.3414 LT	TREE
10414	1743871.8090	2263331.9860	US_6	396+67.73	37.4213 LT	TOP OF WINGWALL
14595	1741459.4800	2271258.0250	US_6	493+72.06	25.4859 RT	GUARDPOST
14580	1741510.2640	2271217.9850	US_6	493+06.41	20.3246 RT	GUARDPOST
15012	1741449.7683	2271215.0278	US_6	493+50.73	62.4497 RT	TREE

JAMES MORTIER
318+00.00
120.00' LT
318+50.00
120.00' LT
319+00.00
100.00' LT
320+00.00
110.00' LT
321+00.00
110.00' LT
N
PROPOSED R.O.W.
CONSTRUCTION LIMITS
PROPOSED DITCH LINE
TEMP. EASEMENT
316+78.00
60.00' LT
316+78.00
50.00' LT
FE +00
317+50.00
50.00' LT
317+22.00
60.00' LT
317+22.00
50.00' LT
EXISTING R.O.W.
STA. 317+00 32' LT
42'-PIPE CULVERTS, CLASS D, TYPE 1, 15"
2 EA. END SECTIONS 15"
24'
IMPROVEMENT BEGINS
STA. 316+50
3'
12'
5'
315+00
316
317
318
319
US 6
320+00
STA. 318+66.63
STA. 317+83.43
MATCH LINE STA. 321+00
GUARDRAIL REMOVAL
CLASS C PATCHES, TYPE IV 12"
HMA SHOULDER, 6"
AGGREGATE SHOULDERS, TYPE B
STA. 319+86 56' RT
72'-PIPE CULVERTS, CLASS D, TYPE 2, 42"
℄ 631.85 - 629.75 @ 2.92%
2 EA. END SECTIONS 42"
317+00.00
50.00' RT
317+75.00
60.00' RT
STATE OF ILLINOIS
FE +86
STA. 318+25
1 EA. REMOVAL OF EXISTING STRUCTURES NO.1
102'- PRECAST CONCRETE BOX CULVERTS 12' X 8'
52' LT - 50' RT
℄ 620.10 - 619.34
1 EA. DROP BOX NO.1 RT
1 EA. BOX CULVERT END SECTIONS, CULVERT NO.1 LT
PIPE DRAINS 8"
PIPE DRAINS 15"
EXISTING WETLAND AREA
TEMPORARY FENCE
319+00.00
85.00' RT
ANDREWS FAMILY TRUST
C/O HERTZ FARM MANAGEMENT, INC.
318+00.00
110.00' RT
318+50.00
110.00' RT
321+00.00
110.00' RT
FIELD TILE JUNCTION VAULTS 3' DIA.
TREE REMOVAL
640
635
630
625
620
615
1.5:1
PROPOSED RT DITCH GRADE LINE
PROPOSED LT DITCH GRADE LINE
STA. 316+50 to 321+00
EARTH EX. = 5,383.7 CU.YDS.
EMB. = 779.0 CU.YDS.
WASTE = 3,258.8 CU.YDS.
644.62
644.00
643.26
642.52
641.74
640.95
640.25
639.55
639.01
638.49
638.10
637.71
637.53
637.38
637.56
637.75
638.15
638.56
639.11
639.66
640.32
640.99
641.62
642.26
642.71
315+00
315+50
316+00
316+50
317+00
317+50
318+00
318+50
319+00
319+50
320+00
320+50
321+00

WATERWAY INFORMATION TABLE

Existing Drainage Area:	198 acres					
Proposed Drainage Area:	233 acres					
Existing Low Grade Elevation:		637.39	ft. @	318+25		
Proposed Low Grade Elevation:		637.39	ft. @	318+25		
Flood	Frequency	Discharge (cfs)		Headwater Elev. (ft)		
	Year	EX	PR	Existing	Proposed	
Ten-Year	10	115	136	625.44	625.42	
Design	50	226	268	626.23	626.08	
Base	100	294	348	625.67	625.41	
Max Calc	500	448	530	627.55	627.24	

10-Year Velocity through Existing Culvert = 5.1 fps
10-Year Velocity through Proposed Culvert = 3.7 fps

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

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	PLOT DATE = Fri Oct 19 12:34:02 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	27

CONTRACT NO. 64F25

ILLINOIS | FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

N

322+00.00
75.00' LT

JAMES MORTIER

PROPOSED DITCH LINE

CONSTRUCTION LIMITS

PROPOSED R.O.W.

WOVEN WIRE FENCE REMOVAL

PROPOSED DITCH LINE

324+00.00
65.00' LT

JAMES E. & MICHELLE KEENER

326+20.79
65.00' LT

EXISTING R.O.W.

CONSTRUCTION LIMITS

EXISTING R.O.W.

MATCH LINE STA. 321+00

3'
5'
12'
12'
3'
5'

321
322
323
US 6
324
325+00
326

STA. 324+78.86

STA. 324+39.79

IMPROVEMENT ENDS
STA. 326+25

3'
12'
12'
3'

HMA SHOULDER, 6"

AGGREGATE SHOULDERS, TYPE B

EXISTING R.O.W.

PROPOSED DITCH LINE

WOVEN WIRE FENCE REMOVAL

CONSTRUCTION LIMITS EXISTING R.O.W.

PROPOSED R.O.W.

STONE RIPRAP, CLASS A4

326+20.79
60.00' RT

324+00.00
70.00' RT

FIELD TILE JUNCTION VAULTS 3' DIA.

PIPE DRAINS 8"

CAST-IN-PLACE REINFORCED CONCRETE END SECTION 8"

CLASS C PATCHES, TYPE IV 12"

REMOVAL OF EXISTING STRUCTURES NO.2

CONSTRUCTION LIMITS

PROPOSED R.O.W.

323+00.00
95.00' RT

321+00.00
110.00' RT

322+00.00
110.00' RT

ANDREWS FAMILY TRUST
C/O HERTZ FARM MANAGEMENT, INC.

TREE REMOVAL

645
640
635
630
625
620
615

PROPOSED RT DITCH GRADE LINE

PROPOSED LT DITCH GRADE LINE

PROPOSED LT DITCH GRADE LINE

1.5:1
1.5:1
2'
2'

STA. 321+00 to 326+25
EARTH EX. = 7,195.1 CU.YDS.
EMB. = 269.0 CU.YDS.
WASTE = 5,127.3 CU.YDS.

642.71 643.15 643.45 643.69 643.83 643.93 643.85 643.77 643.59 643.39 643.21 643.04 642.97 643.00 643.12 643.50 643.88 644.40 644.93 645.59 646.28 647.06 647.98 648.98 650.08

321+00 321+50 322+00 322+50 323+00 323+50 324+00 324+50 325+00 325+50 326+00 326+50 327+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	28
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ADJACENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

338+50.00
90.00' LT
PROPOSED R.O.W.
339+25.00
90.00' LT
EXISTING WETLAND AREA
TEMPORARY FENCE
JAMES MORTIER
338+00.00
60.00' LT
TEMPORARY FENCE
JAMES MORTIER
337+00.00
50.00' LT
340+00.00
50.00' LT
EXISTING R.O.W.
CONSTRUCTION LIMITS
CONSTRUCTION LIMITS
PT Sta 336+56.92
IMPROVEMENT BEGINS
STA. 337+75
HMA SHOULDER, 6"
AGGREGATE SHOULDERS, TYPE B
5'
3'
12'
12'
3'
US 6
337
338
339
340+00
341
342
STA. 339+36.65
STA. 338+93.34
IMPROVEMENT ENDS
STA. 340+50
5'
3'
12'
12'
3'
PROPOSED DITCH LINE
CONSTRUCTION LIMITS
PROPOSED DITCH LINE
EXISTING R.O.W.
EXISTING R.O.W.
CLASS C PATCHES, TYPE IV 12"
CONSTRUCTION LIMITS
338+00.00
50.00' RT
340+50.00
50.00' RT
ANDREWS FAMILY TRUST
C/O HERTZ FARM MANAGEMENT, INC.
PROPOSED R.O.W.
PIPE DRAINS 8"
339+00.00
75.00' RT
339+50.00
75.00' RT
STA. 339+15 @ 15° SKEW
1 EA. REMOVAL OF EXISTING STRUCTURES NO.3
62'-PIPE CULVERT, CLASS A, TYPE 2, 48"
32' LT - 30' RT
℄ 639.26 - 638.80
1 EA. DROP BOX NO.2 RT
1 EA. CONCRETE END SECTION, STANDARD 542001, 48", 1:4, LT
FIELD TILE JUNCTION VAULTS 3' DIA.
ROBERT B. TOWNER FAMILY TRUST
C/O SHARON CAMPBELL
STEVE R. & DEBRA J. VOUGHT
N
EXISTING R.O.W.
TREE REMOVAL

WATERWAY INFORMATION TABLE

Drainage Area = 38	acres			
Existing Low Grade Elevation:	647.05	ft. @	339+15	
Proposed Low Grade Elevation:	647.05	ft. @	339+15	

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	26	642.29	642.44
Design	50	51	643.41	642.79
Base	100	67	645.31	643.05
Ovt (Existing)	188	78	647.05	-
Max Calc	500	104	-	644.65

10-Year Velocity through Existing Culvert = 13.0 fps
10-Year Velocity through Proposed Culvert = 7.8 fps

PROFILE
SURVEYED
PLOTTED
ADJACENT CHECKED
R.W. NOTED
STRUCTURE NO.
NOTE BOOK
NO.
BY
DATE

655
650
645
640
635
630
625
620
1:1
1:1
PROPOSED RT DITCH GRADE LINE
PROPOSED RT DITCH GRADE LINE
STA. 337+75 to 340+50
EARTH EX. = 45.1 CU.YDS.
EMB. = 331.0 CU.YDS.
HAUL IN = 297.2 CU.YDS.

654.49 653.53 652.57 651.64 650.73 649.88 649.28 648.68 648.26 647.86 647.57 647.33 647.16 647.13 647.13 647.32 647.51 647.84 648.21 648.58 648.95 649.31 649.64 649.96 650.21

336+50 337+00 337+50 338+00 338+50 339+00 339+50 340+00 340+50 341+00 341+50 342+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	29
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

PLAN | NOTE BOOK NO. ____ | SURVEYED ____ | PLOTTED ____ | ALIGNMENT CHECKED ____ | RT. OF WAY CHECKED ____ | CADD FILE NAME ____ | BY | DATE

PROFILE | NOTE BOOK NO. ____ | SURVEYED ____ | PLOTTED ____ | GRADES CHECKED ____ | B.M. NOTED ____ | STRUCTURE NOTAT'NS CH'KD | BY | DATE

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DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

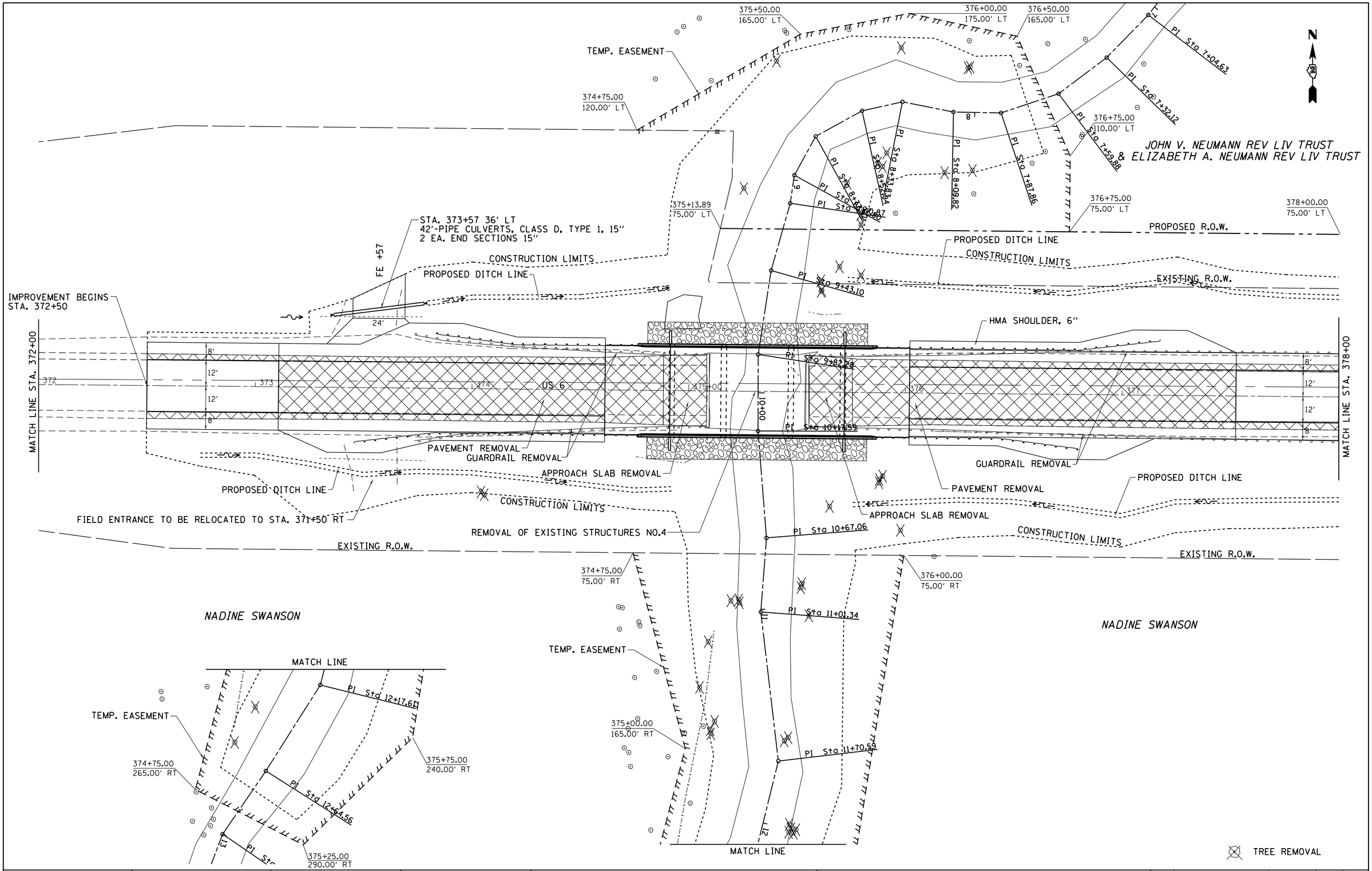
US 6
PLAN & PROFILE

SCALE: | SHEET | OF | SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	30

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6 PLAN

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	31
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

PLAN

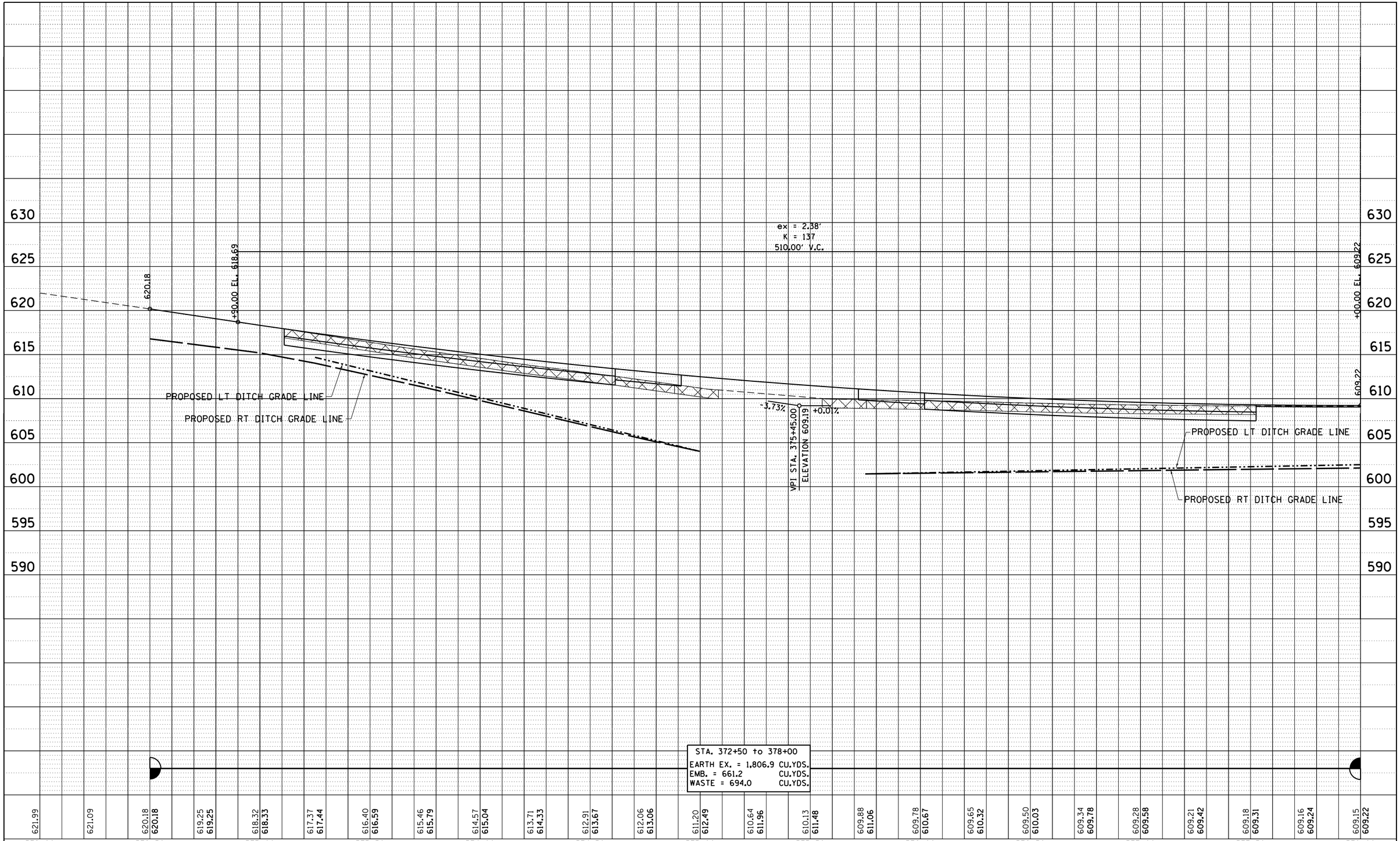
SURVEYED	
PLOTTED	
DRAWN	
CHECKED	
R/W CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
DRAWN	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATNS	CHKD
NOTE BOOK	
NO.	

BY	DATE



STA. 372+50 to 378+00

EARTH EX. = 1,806.9 CU.YDS.
EMB. = 661.2 CU.YDS.
WASTE = 694.0 CU.YDS.

372+00	372+50	373+00	373+50	374+00	374+50	375+00	375+50	376+00	376+50	377+00	377+50	378+00
621.99	621.09	620.18 / **620.18**	619.25 / **619.25**	618.32 / **618.33**	617.37 / **617.44**	616.40 / **616.59**	615.46 / **615.79**	614.57 / **615.04**	613.71 / **614.33**	612.91 / **613.67**	612.06 / **613.06**	611.20 / **612.49**	610.64 / **611.96**	610.13 / **611.48**	609.88 / **611.06**	609.78 / **610.67**	609.65 / **610.32**	609.50 / **610.03**	609.34 / **609.78**	609.28 / **609.58**	609.21 / **609.42**	609.18 / **609.31**	609.16 / **609.24**	609.15 / **609.22**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6 PROFILE

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	32

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

JOHN V. NEUMANN REV LIV TRUST
& ELIZABETH A. NEUMANN REV LIV TRUST

JOHN V. NEUMANN REV LIV TRUST
& ELIZABETH A. NEUMANN REV LIV TRUST

N

378+00.00
75.00' LT

PROPOSED R.O.W.

PROPOSED DITCH LINE

EXISTING R.O.W.

379+50.00
50.00' LT

E. 720TH ST.

EXISTING WETLAND AREA

TEMPORARY FENCE

EXISTING R.O.W.

HMA SHOULDER, 6"

AGGREGATE SHOULDERS, TYPE B

CONSTRUCTION LIMITS

MATCH LINE STA. 378+00

MATCH LINE STA. 384+00

STA. 379+24.41

STA. 378+89.43

STA. 383+65.05

US 6

GUARDRAIL REMOVAL

CLASS C PATCHES, TYPE IV 12"

REMOVAL OF EXISTING STRUCTURES NO.5

REMOVAL OF EXISTING STRUCTURES NO.6

383+00.00
60.00' RT

379+61.92
75.00' RT

381+00.00
65.00' RT

382+00.00
65.00' RT

WOVEN WIRE FENCE REMOVAL

TREE REMOVAL

NADINE SWANSON

NADINE SWANSON

STA. 380+50 44.21' RT
30'-PRECAST CONCRETE BOX CULVERTS 6' X 3'
FL 602.92 - 602.83 @ 0.30%
2 EA. BOX CULVERT END SECTIONS, CULVERT NO.5 RT

630

PROFILE

PROPOSED LT DITCH GRADE LINE

PROPOSED RT DITCH GRADE LINE

1:6

1:1

625 620 615 610 605 600 595 590

609.15 609.23 | 609.13 609.24 | 609.11 609.24 | 609.11 609.24 | 609.13 609.25 | 609.16 609.25 | 609.20 609.26 | 609.24 609.26 | 609.26 609.26 | 609.27 | 609.28 | 609.29 | 609.31 | 609.31 | 609.29 | 609.27 | 609.25 | 609.21 | 609.18 | 609.19 | 609.20 | 609.21 | 609.22 | 609.23 | 609.22

378+00 378+50 379+00 379+50 380+00 380+50 381+00 381+50 382+00 382+50 383+00 383+50 384+00

STA. 378+00 to 384+00
EARTH EX. = 542.4 CU.YDS.
EMB. = 408.4 CU.YDS.
WASTE = 69.1 CU.YDS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	33

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

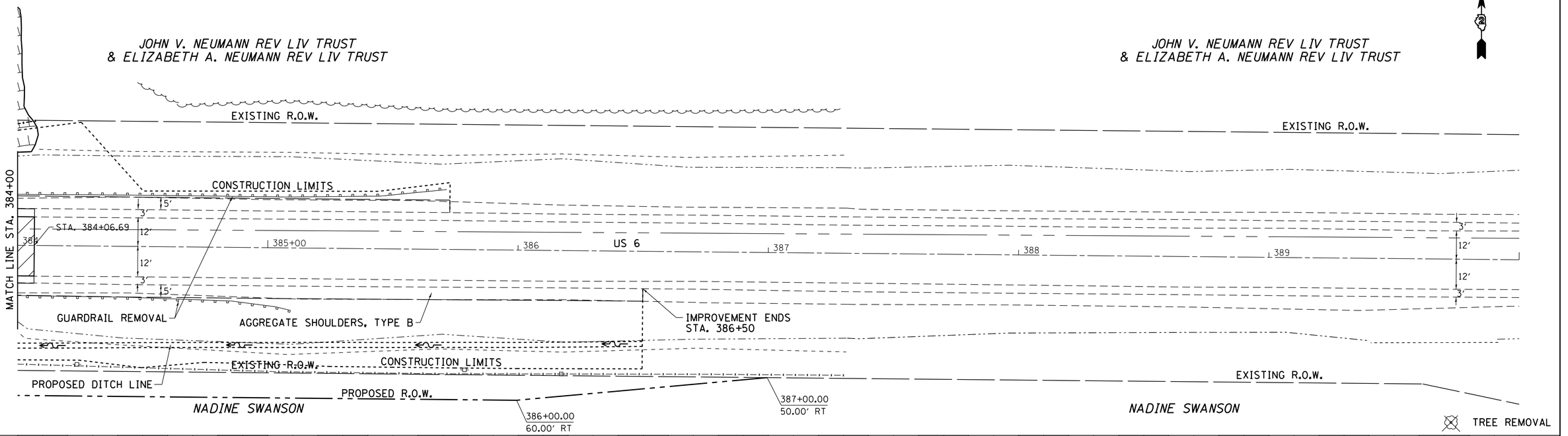
PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.

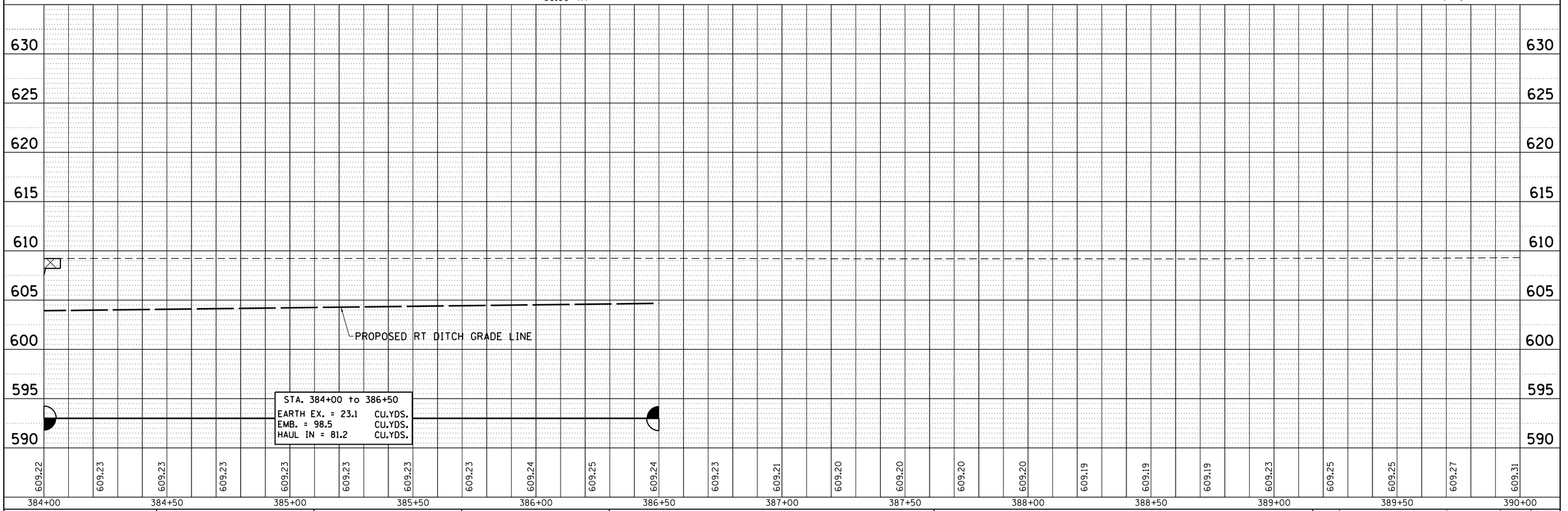
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.

BY DATE

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	34
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

WATERWAY INFORMATION TABLE

Drainage Area = 17	acres			
Existing Low Grade Elevation:	611.30	ft. @	393+64	
Proposed Low Grade Elevation:	611.30	ft. @	393+64	
Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	12	610.90	610.11
OVT (Existing)	11	13	611.30	-
Design	50	26	-	610.66
Base	100	35	-	610.97
OVT (Proposed)	213	44	-	611.30

10-Year Velocity through Existing Culvert = 11.7 fps
10-Year Velocity through Proposed Culvert = 4.9 fps

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

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	PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -			COUNTY HENRY	TOTAL SHEETS 210 / SHEET NO. 35
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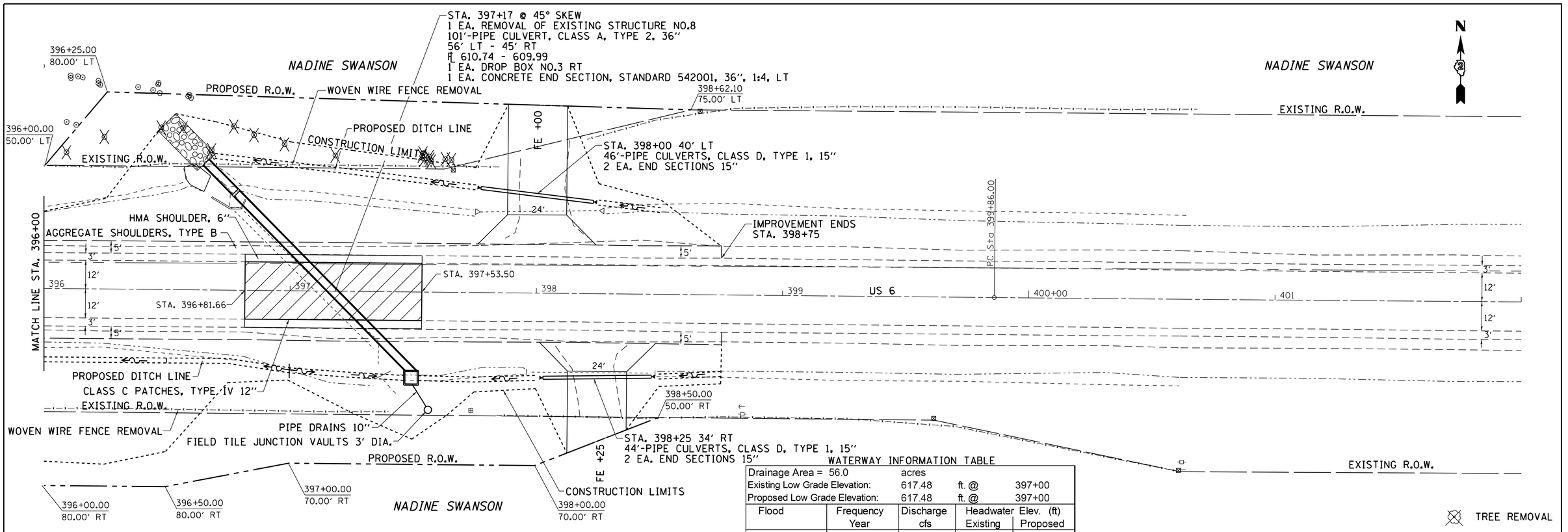
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT	

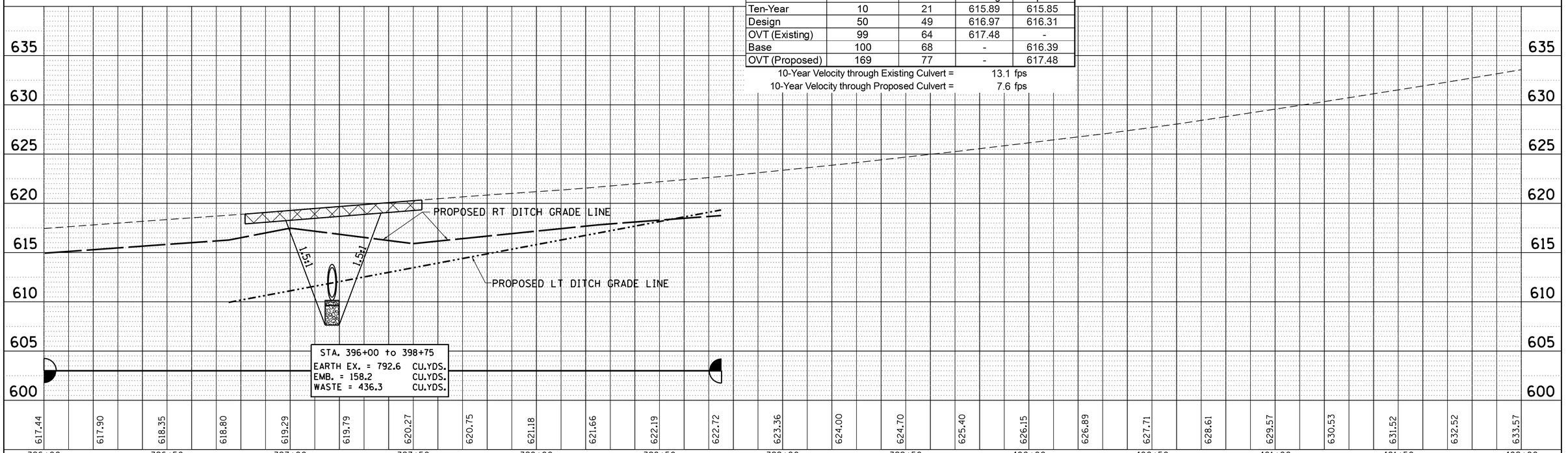


WATERWAY INFORMATION TABLE

Drainage Area = 56.0	acres			
Existing Low Grade Elevation:	617.48	ft. @	397+00	
Proposed Low Grade Elevation:	617.48	ft. @	397+00	

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	21	615.89	615.85
Design	50	49	616.97	616.31
OVT (Existing)	99	64	617.48	-
Base	100	68	-	616.39
OVT (Proposed)	169	77	-	617.48

10-Year Velocity through Existing Culvert = 13.1 fps
10-Year Velocity through Proposed Culvert = 7.6 fps



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	36

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

JULIE A. FRELS

DENO KANDIS

RANDY J. & TERRY L. HAARS

TEMP. EASEMENT

461+94.49
50.00′ LT

461+45.00
55.00′ LT

461+83.00
55.00′ LT

461+45.00
50.00′ LT

461+83.00
50.00′ LT

STA. 461+67 31′ LT
46′-PIPE CULVERTS, CLASS D, TYPE 1, 15″
2 EA. END SECTIONS 15″

462+50.00
65.00′ LT

PROPOSED R.O.W.

465+00.00
75.00′ LT

CONSTRUCTION LIMITS

EXISTING R.O.W.

EXISTING R.O.W.

PROPOSED DITCH LINE

IMPROVEMENT BEGINS
STA. 461+25

PT Sta. 461+37.71

FE +6

24′

PC Sta. 463+21.2

GUARDRAIL REMOVAL

3′
12′
12′
3′

459
460+00
461
US 6
462
463
464

STA. 462+70.85

STA. 462+02.20

5′
3′
12′
12′
3′
5′

MATCH LINE STA. 465+00

HMA SHOULDER, 6″

AGGREGATE SHOULDERS, TYPE B

CLASS C PATCHES, TYPE IV 12″

REMOVAL OF EXISTING STRUCTURES NO.9

EXISTING R.O.W.

461+00.00
60.00′ RT

PROPOSED DITCH LINE

62′
79′
30° (TYP)
4′ (TYP)
101′
116′
111′
90′

CONSTRUCTION LIMITS

PROPOSED R.O.W.

STONE RIPRAP,
CLASS A3

EXISTING R.O.W.

464+00.00
140.00′ RT

463+50.00
135.00′ RT

TREE REMOVAL

PLAN
SURVEYED
PLOTTED
ADJACENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
B.M. NOTED
STRUCTURE NOTATNS
CHKD
NOTE BOOK
NO.
BY
DATE

PROPOSED LT DITCH GRADE LINE

1.5:1

1.5:1

PROPOSED RT DITCH GRADE LINE

STA. 461+25 to 465+00
EARTH EX. = 4,992.6 CU.YDS.
EMB. = 918.1 CU.YDS.
WASTE = 2,826.4 CU.YDS.

645
640
635
630
625
620
615

646.95 646.18 645.40 644.62 643.82 642.99 642.18 641.38 640.58 639.79 639.00 638.21 637.45 636.76 636.07 635.50 634.98 634.52 634.10 633.67 633.41 633.12 632.81 632.68 632.66

459+00 459+50 460+00 460+50 461+00 461+50 462+00 462+50 463+00 463+50 464+00 464+50 465+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	37

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

STA. 466+50
2 - 68'-PRECAST CONCRETE BOX CULVERTS 12' X 6'
39' LT - 29' RT
℄ 622.12 - 621.63
4 EA. BOX CULVERT END SECTIONS, CULVERT NO.3 LT & RT
EXIST. CURVE 260
PI STA. = 473+62.87
Δ = 91° 17' 27'' (RT)
D = 5° 39' 30''
R = 1,012.58'
T = 1,035.65'
L = 1,613.37'
E = 435.83'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 463+27.22
P.T. STA. = 479+40.59
N
DENO KANDIS
466+00.00
86.84' LT
EXISTING R.O.W.
PROPOSED R.O.W.
CONSTRUCTION LIMITS
PROPOSED DITCH LINE
N. 2100TH AVE.
GENESEO SCHOOL UNIT 228
PROPOSED DITCH LINE
HMA SHOULDER, 6''
AGGREGATE SHOULDERS, TYPE B
CONCRETE HEADWALL REMOVAL
STA. 467+50.28
US 6
STA. 466+09.84
MATCH LINE STA. 465+00
MATCH LINE STA. 471+00
AGGREGATE SHOULDERS, TYPE B
GUARDRAIL REMOVAL
CLASS C PATCHES, TYPE IV 12''
REMOVAL OF EXISTING STRUCTURES NO.10
PROPOSED DITCH LINE
30° (TYP)
STONE RIPRAP, CLASS A3
STONE RIPRAP, CLASS A3
CONSTRUCTION LIMITS
PROPOSED DITCH LINE
EXISTING R.O.W.
467+61.15
100.00' RT
469+60.53
99.12' RT
EXISTING R.O.W.
CAST-IN-PLACE REINFORCED CONCRETE END SECTION 8''
PIPE DRAINS 8''
FIELD TILE JUNCTION VAULTS 3' DIA.
RANDY J. & TERRY L. HAARS
466+00.00
125.00' RT
PROPOSED R.O.W.
TREE REMOVAL
PROPOSED LT DITCH GRADE LINE
PROPOSED RT DITCH GRADE LINE
PROPOSED RT DITCH GRADE LINE
PROPOSED LT DITCH GRADE LINE
1.5:1
635
630
625
620
632.66 632.64 632.68 632.83 632.99 633.18 633.39 633.60 633.78 633.95 634.17 634.37 634.54 634.71 634.84 635.06 635.40 635.66 635.88 636.09 636.37 636.61 636.81 636.99 637.16
465+00 465+50 466+00 466+50 467+00 467+50 468+00 468+50 469+00 469+50 470+00 470+50 471+00

WATERWAY INFORMATION TABLE

Existing Drainage Area = 255 acres
Proposed Drainage Area = 414 acres
Existing Low Grade Elevation: 632.64 ft. @ 466+50
Proposed Low Grade Elevation: 632.64 ft. @ 466+50

Flood	Frequency Year	Discharge (cfs) Existing	Discharge (cfs) Proposed	Headwater Elev. (ft) Existing	Headwater Elev. (ft) Proposed
Ten-Year	10	101	192	625.60	624.54
Design	50	214	394	627.22	626.93
Base	100	285	520	627.80	627.57
Max	500	451	811	629.18	628.68

10-Year Velocity through Existing Culvert = 2.7 fps
10-Year Velocity through Proposed Culvert = 2.1 fps

STA. 465+00 to 471+00
EARTH EX. = 5,731.1 CU.YDS.
EMB. = 822.7 CU.YDS.
WASTE = 3,475.6 CU.YDS.

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.
PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	38

CONTRACT NO. 64F25
ILLINOIS FED. AID PROJECT

EXIST. CURVE 260
PI STA. = 473+62.87
Δ = 91° 17′ 27″ (RT)
D = 5° 39′ 30″
R = 1,012.58′
T = 1,035.65′
L = 1,613.37′
E = 435.83′
e = -----
T.R. = -----
S.E. RUN = _____
P.C. STA. = 463+27.22
P.T. STA. = 479+40.59

GENESEO SCHOOL UNIT 228

E. 900TH ST.

EXISTING R.O.W.

US 6

MATCH LINE STA. 471+00

MATCH LINE STA. 477+00

AGGREGATE SHOULDERS, TYPE B

PROPOSED DITCH LINE

EXISTING R.O.W.

CONSTRUCTION LIMITS

STONE RIPRAP, CLASS A3

471+60.18
90.41′ RT

PROPOSED R.O.W.

471+20.66
90.66′ RT

472+00.00
105.00′ RT

474+00.00
100.00′ RT

STONE RIPRAP, CLASS A4

EXISTING DROP STRUCTURE TO REMAIN IN PLACE

EXISTING GRASS WATERWAY

RANDY J. & TERRY L. HAARS

476+00.00
100.00′ RT

TREE REMOVAL

PROPOSED RT DITCH GRADE LINE

STA. 471+00 to 477+00	
EARTH EX. = 382.3	CU.YDS.
EMB. = 450.6	CU.YDS.
HAUL IN = 163.9	CU.YDS.

645 640 635 630 625 620 615

637.16 637.34 637.58 637.82 638.04 638.24 638.44 638.63 638.80 638.92 639.02 639.17 639.40 639.60 639.73 639.88 640.09 640.31 640.54 640.76 640.97 641.18 641.39 641.59 641.80

471+00 471+50 472+00 472+50 473+00 473+50 474+00 474+50 475+00 475+50 476+00 476+50 477+00

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	39
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ADJUSTMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

479+25.00
100.00' LT
479+75.00
100.00' LT
481+25.00
90.00' LT
PROPOSED R.O.W.
JAMES J. & DONNA K. INGRAM
FIELD TILE JUNCTION VAULTS 3' DIA.
PIPE DRAINS 8"
CONSTRUCTION LIMITS
CAST-IN-PLACE REINFORCED CONCRETE END SECTION 8"
479+00.00
75.00' LT
PROPOSED DITCH LINE
PROPOSED DITCH LINE
482+00.00
50.00' LT
478+00.00
50.00' LT
EXISTING R.O.W.
EXISTING R.O.W.
479+40.55
HMA SHOULDER, 5-3/4"
AGGREGATE SHOULDERS, TYPE B
GUARDRAIL REMOVAL
IMPROVEMENT ENDS
STA. 481+50
5'
3'
12'
12'
3'
STA. 479+63.68
STA. 479+08.85
479
480+00
US 6
481
482
483
478
477
MATCH LINE STA. 477+00
CLASS C PATCHES, TYPE IV 12"
GUARDRAIL REMOVAL
EXISTING R.O.W.
480+50.00
50.00' RT
PROPOSED DITCH LINE
CAST-IN-PLACE REINFORCED CONCRETE END SECTION 10"
PIPE DRAINS 10"
STONE RIPRAP, CLASS A3
CONSTRUCTION LIMITS
PROPOSED R.O.W.
479+75.00
85.00' RT
FIELD TILE JUNCTION VAULTS 3' DIA.
PROPOSED DITCH LINE
479+00.00
85.00' RT
STA. 479+36
1 EA. REMOVAL OF EXISTING STRUCTURE NO.11
48"-PRECAST CONCRETE BOX CULVERTS 9' X 6'
26' LT - 22' RT
℄ 634.73 - 634.37
2 EA. BOX CULVERT END SECTIONS, CULVERT NO.04 LT & RT
478+00.00
90.00' RT
RANDY J. & TERRY L. HAARS
RANDY J. & TERRY L. HAARS

WATERWAY INFORMATION TABLE

Drainage Area = 197 acres
Existing Low Grade Elevation: 641.42 ft. @ 479+36
Proposed Low Grade Elevation: 641.42 ft. @ 479+36

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	70	637.50	636.95
Design	50	154	638.89	638.22
Base	100	207	639.66	638.96
Max	500	333	641.30	640.64

10-Year Velocity through Existing Culvert = 12.2 fps
10-Year Velocity through Proposed Culvert = 3.9 fps

TREE REMOVAL

645
640
635
630
625
620
615
PROPOSED RT DITCH GRADE LINE
PROPOSED LT DITCH GRADE LINE
1.5:1
1.5:1
PROPOSED LT DITCH GRADE LINE
PROPOSED RT DITCH GRADE LINE

STA. 477+00 to 481+50
EARTH EX. = 1,770.4 CU.YDS.
EMB. = 819.1 CU.YDS.
WASTE = 508.7 CU.YDS.

641.80 641.97 642.11 642.34 642.53 642.76 642.95 643.12 643.34 643.56 643.75 643.94 644.15 644.37 644.58 644.78 645.08 645.47 645.86 646.33 646.79 647.33 647.90 648.48 649.15

477+00 477+50 478+00 478+50 479+00 479+50 480+00 480+50 481+00 481+50 482+00 482+50 483+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	40
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

JAMES J. & DONNA K. INGRAM

JAMES J. & DONNA K. INGRAM

491+75.00
105.00' LT

TEMPORARY FENCE

CONSTRUCTION LIMITS

PROPOSED R.O.W.

EXISTING R.O.W.

490+50.00
48.03' LT

EXISTING WETLAND AREA

CONSTRUCTION LIMITS

PROPOSED DITCH LINE

492+50.00
65.00' LT

EXIST. CURVE 270
PI STA. = 494+25.33
Δ = 82° 56' 53" (LT)
D = 6° 57' 49"
R = 822.80'
T = 727.29'
L = 1,191.18'
E = 275.36'
e = ----
T.R = ----
S.E. RUN = ----
P.C. STA. = 486+98.04
P.T. STA. = 498+89.22

494+00.00
47.10' LT

PERMANENT. EASEMENT

EXISTING R.O.W.

PROPOSED DITCH LINE

HMA SHOULDER, 5-3/4"

AGGREGATE SHOULDERS, TYPE B

STA. 492+76.03
US 6

STA. 491+91.01

IMPROVEMENT BEGINS
STA. 490+75

IMPROVEMENT ENDS
STA. 493+75

CLASS C PATCHES, TYPE IV 12"

GUARDRAIL REMOVAL

EDWARDS RD.

EXISTING R.O.W.

PROPOSED DITCH LINE

STATE OF ILLINOIS

STATE OF ILLINOIS

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

STA. 492+34 @ 34° SKEW
1 EA. REMOVAL OF EXISTING STRUCTURE NO.12
112'-PRECAST CONCRETE BOX CULVERTS 9' X 6'
50' LT - 62' RT
℄ 647.29 - 646.50
2 EA. BOX CULVERT END SECTIONS, CULVERT NO.04 LT & RT

WATERWAY INFORMATION TABLE

Drainage Area = 152		acres		
Existing Low Grade Elevation:		660.25	ft. @	492+34
Proposed Low Grade Elevation:		660.25	ft. @	492+34

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	52	649.12	649.01
Design	50	116	650.41	650.21
Base	100	157	651.13	650.83
Max	500	254	652.61	652.15

10-Year Velocity through Existing Culvert = 8.0 fps
10-Year Velocity through Proposed Culvert = 7.2 fps

TREE REMOVAL

PROPOSED RT DITCH GRADE LINE

PROPOSED LT DITCH GRADE LINE

STA. 490+75 to 493+75
EARTH EX. = 870.8 CU.YDS.
EMB. = 457.2 CU.YDS.
WASTE = 195.9 CU.YDS.

670 665 660 655 650 645 640

660.11 660.18 660.25 660.28 660.29 660.26 660.27 660.38 660.43 660.43 660.46 660.71 660.95 661.23 661.63 662.19 662.79 663.41 664.08 664.80 665.56 666.33 667.16 668.03 668.94

489+50 490+00 490+50 491+00 491+50 492+00 492+50 493+00 493+50 494+00 494+50 495+00

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

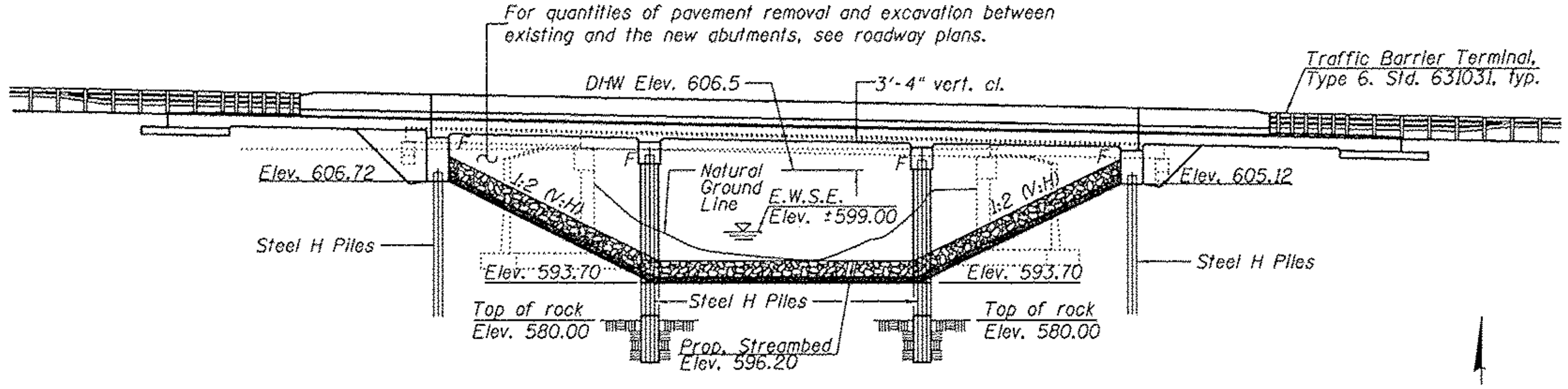
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	41
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

Bench Mark: Chiseled square set in headwall of SN 037-1113 located at Sta. 303+07.43 and elevation 627.21.

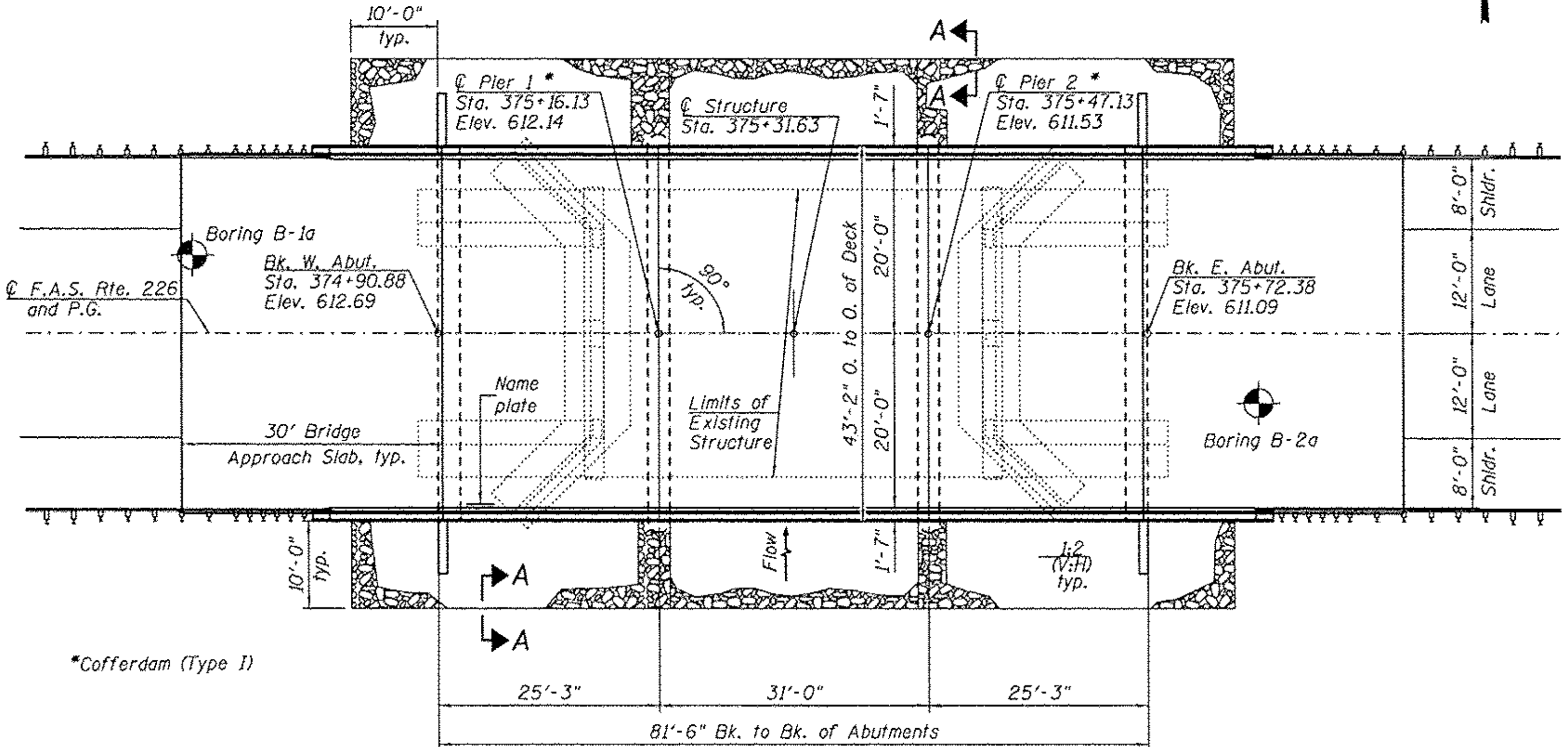
Existing Structure: SN 037-0048 was originally constructed in 1921 as a single span RC through girder on RC abutments. In 1976 the superstructure was reconstructed with a new single span PPC deck beam superstructure on new, widened abutment seats. The bridge is 48'-0" bk. to bk. abuts. and 33'-0" o. to o. of deck.

Existing structure to be removed and replaced. Traffic shall be detoured during construction.

No Salvage



ELEVATION

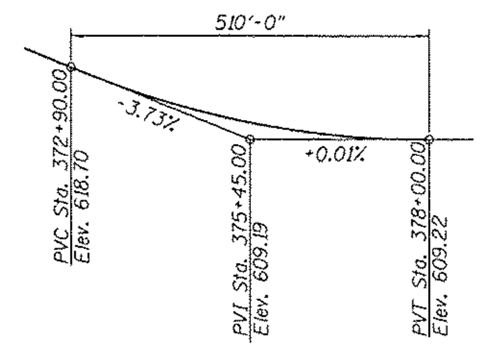


*Cofferdam (Type I)

PLAN

Note: For Section A-A, see sheet 2 of 15.

INDEX OF SHEETS



PROFILE GRADE

(Along ℄ Roadway)

STATION 375+31.63
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 226 SEC. 3T & 3BR-1
LOADING HL-93
STRUCTURE NO. 037-0178

NAME PLATE

See Std. 515001

DESIGN SCOUR ELEVATION TABLE

	Design Scour Elevations (ft.)			
	W. Abut.	Pier 1	Pier 2	E. Abut.
Q100	606.7	586.5	584.0	605.1

WATERWAY INFORMATION

Drainage Area = 22.3 sq. mi. Low Grade Elev. 609.11 @ Sta. 378+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Ten-Year	10	2,450	295	479	606.0	2.3	2.1	608.3	608.1
Existing Overtopping	25	3,197	309	n/a	606.3	2.8	n/a	609.1	n/a
Design	50	3,750	318	516	606.5	2.8	2.4	609.3	608.9
Proposed Overtopping	73	4,063	n/a	523	606.6	n/a	2.5	n/a	609.1
Base	100	4,300	327	530	606.7	2.9	2.9	609.6	609.6

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

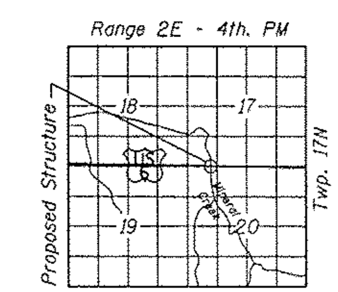
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.063g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.100g
Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION
US ROUTE 6 OVER MINERAL CREEK
F.A.S. RTE. 226 SEC. 3T & 3BR-1
HENRY COUNTY
STATION 375+31.63
STRUCTURE NO. 037-0178

DAVID CARL PUZEY 081-005470 SPRINGFIELD ILLINOIS — LICENSED STRUCTURAL ENGINEER — STATE OF ILLINOIS

EXPIRES 11-30-2014

DESIGNED - Fesseha Tekle-Mariam	EXAMINED - ENGINEER OF BRIDGE DESIGN	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Stephen M Ryan			
DRAWN - h.t. duong	PASSED - ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	
CHECKED - FT/ SMR/GRA		REVISED	

GENERAL PLAN & ELEVATION
STRUCTURE NO. 037-0178
SHEET NO. 1 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	42

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

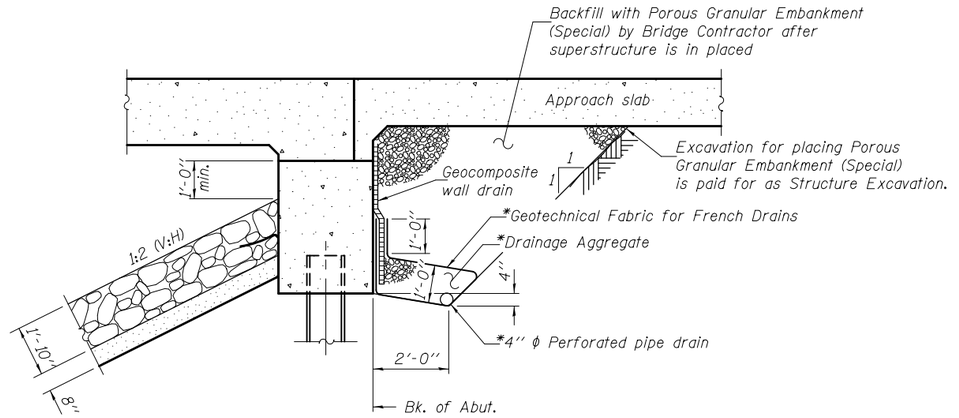
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework. Dead load deflections are negligible. Forms for deck slab shall be removed prior to placement of bridge approach slab.

Slipforming of the parapet is not allowed.



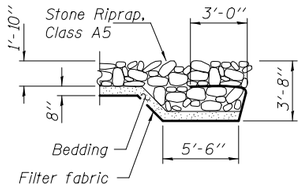
SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures, 4".

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

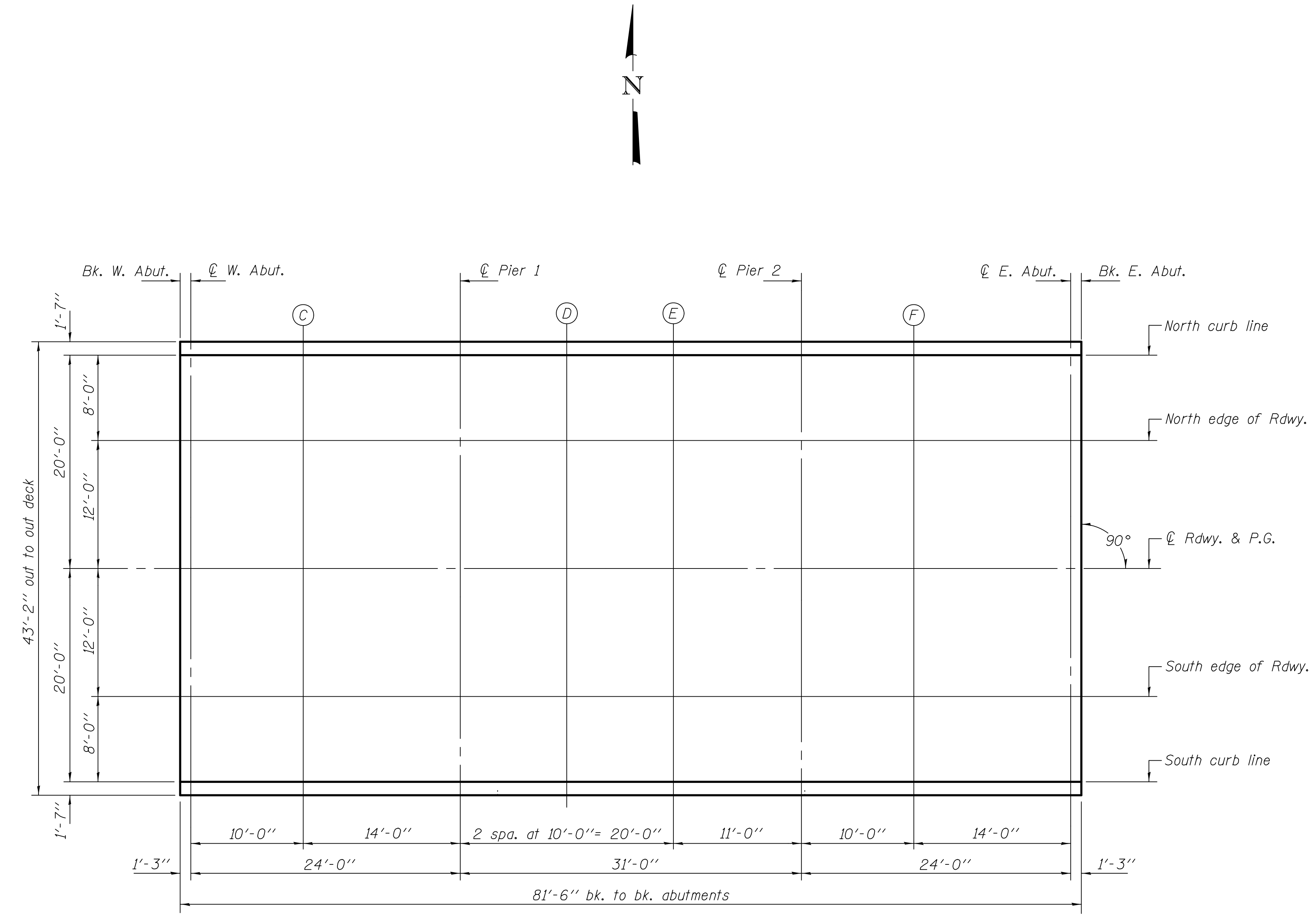
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		71.1	71.1
Stone Riprap, Class A5	Sq. Yd.		594	594
Filter Fabric	Sq. Yd.		594	594
Removal of Existing Structures No. 4	Each	1		1
Structure Excavation	Cu. Yd.		56.2	56.2
Concrete Structures	Cu. Yd.		169.7	169.7
Concrete Superstructure	Cu. Yd.	325.6		325.6
Bridge Deck Grooving	Sq. Yd.	596.0		596.0
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	725.0		725.0
Reinforcement Bars, Epoxy Coated	Pound	82520	14770	97290
Furnishing Steel Piles HP12x53	Foot		295	295
Furnishing Steel Piles HP12x63	Foot		609	609
Driving Piles	Foot		295	295
Test Pile Steel HP12x53	Each		2	2
Setting Piles in Rock	Each		14	14
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		42.8	42.8
Pipe Underdrains for Structures, 4"	Foot		139	139
Cofferdam Excavation	Cu. Yd.		54.0	54.0
Cofferdam (Type 1), Location 1	Each		1	1
Cofferdam (Type 1), Location 2	Each		1	1



SECTION A-A

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 037-0178	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN	ACTING ENGINEER OF BRIDGE DESIGN	REVISED			226	3T & 3BR-1	HENRY	210	43
DRAWN - h.t. duong	PASSED	REVISED		SHEET NO. 2 OF 15 SHEETS			CONTRACT NO. 64F25		
CHECKED - GRA/FT	ACTING ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT		



PLAN

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN	DATE - December 4, 2012
CHECKED - STEPHEN M. RYAN			
DRAWN - h.t. duong	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - GRA/FT			REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0178

SHEET NO. 3 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	44

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. W. Abut.	374+90.88	-20.00	612.33
CL. W. Abut	374+92.13	-20.00	612.30
C	375+02.13	-20.00	612.08
CL. Pier 1	375+16.13	-20.00	611.79
D	375+26.13	-20.00	611.58
E	375+36.13	-20.00	611.39
CL. Pier 2	375+47.13	-20.00	611.18
F	375+57.13	-20.00	611.00
CL. E. Abut	375+71.13	-20.00	610.76
Bk. E. Abut.	375+72.38	-20.00	610.74

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
Bk. W. Abut.	374+90.88	-12.00	612.50
CL. W. Abut	374+92.13	-12.00	612.47
C	375+02.13	-12.00	612.25
CL. Pier 1	375+16.13	-12.00	611.95
D	375+26.13	-12.00	611.75
E	375+36.13	-12.00	611.55
CL. Pier 2	375+47.13	-12.00	611.35
F	375+57.13	-12.00	611.17
CL. E. Abut	375+71.13	-12.00	610.92
Bk. E. Abut.	375+72.38	-12.00	610.90

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
Bk. W. Abut.	374+90.88	0.00	612.69
CL. W. Abut	374+92.13	0.00	612.66
C	375+02.13	0.00	612.44
CL. Pier 1	375+16.13	0.00	612.14
D	375+26.13	0.00	611.94
E	375+36.13	0.00	611.74
CL. Pier 2	375+47.13	0.00	611.53
F	375+57.13	0.00	611.35
CL. E. Abut	375+71.13	0.00	611.11
Bk. E. Abut.	375+72.38	0.00	611.09

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
Bk. W. Abut.	374+90.88	12.00	612.50
CL. W. Abut	374+92.13	12.00	612.47
C	375+02.13	12.00	612.25
CL. Pier 1	375+16.13	12.00	611.95
D	375+26.13	12.00	611.75
E	375+36.13	12.00	611.55
CL. Pier 2	375+47.13	12.00	611.35
F	375+57.13	12.00	611.17
CL. E. Abut	375+71.13	12.00	610.92
Bk. E. Abut.	375+72.38	12.00	610.90

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. W. Abut.	374+90.88	20.00	612.33
CL. W. Abut	374+92.13	20.00	612.30
C	375+02.13	20.00	612.08
CL. Pier 1	375+16.13	20.00	611.79
D	375+26.13	20.00	611.58
E	375+36.13	20.00	611.39
CL. Pier 2	375+47.13	20.00	611.18
F	375+57.13	20.00	611.00
CL. E. Abut	375+71.13	20.00	610.76
Bk. E. Abut.	375+72.38	20.00	610.74

NORTH CURB LINE

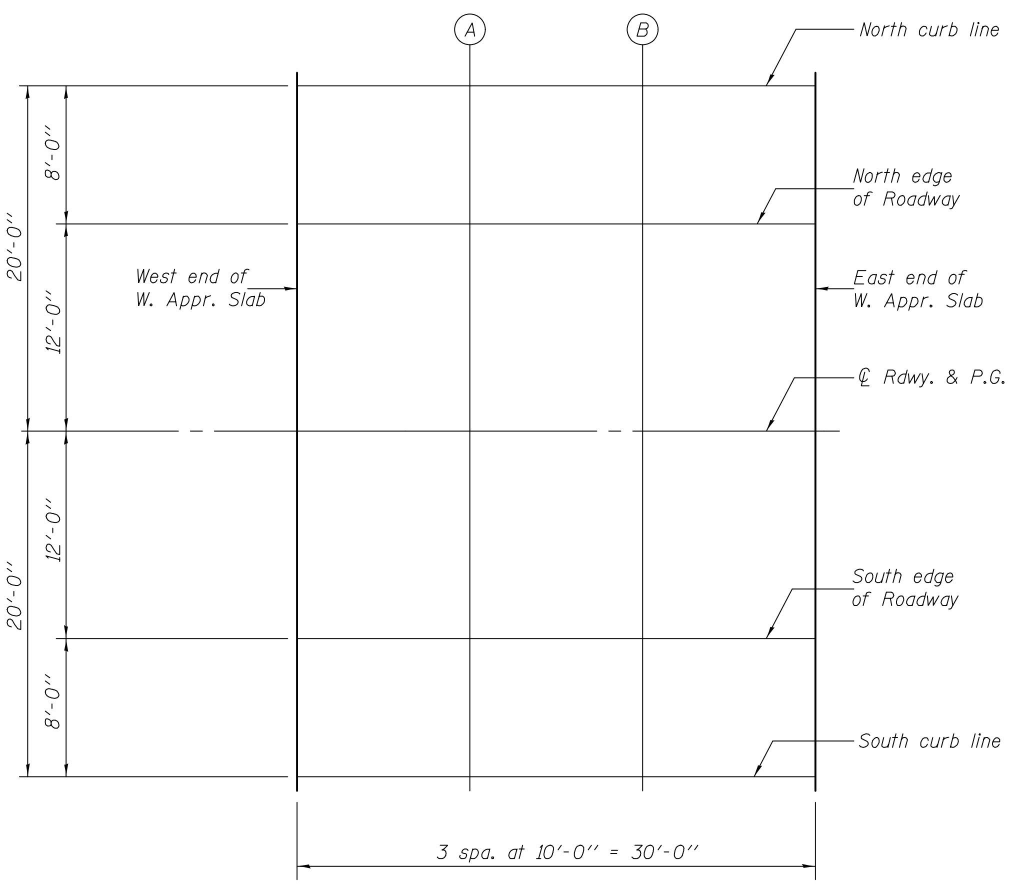
Location	Station	Offset	Theoretical Grade Elevations
West end of W. Appr. Slab	374+61.38	-20.00	613.03
A	374+71.38	-20.00	612.79
B	374+81.38	-20.00	612.55
East end of W. Appr. Slab	374+91.38	-20.00	612.32

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West end of W. Appr. Slab	374+61.38	-12.00	613.20
A	374+71.38	-12.00	612.95
B	374+81.38	-12.00	612.72
East end of W. Appr. Slab	374+91.38	-12.00	612.49

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
West end of W. Appr. Slab	374+61.38	0.00	613.38
A	374+71.38	0.00	613.14
B	374+81.38	0.00	612.90
East end of W. Appr. Slab	374+91.38	0.00	612.68



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West end of W. Appr. Slab	374+61.38	12.00	613.20
A	374+71.38	12.00	612.95
B	374+81.38	12.00	612.72
East end of W. Appr. Slab	374+91.38	12.00	612.49

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
West end of W. Appr. Slab	374+61.38	20.00	613.03
A	374+71.38	20.00	612.79
B	374+81.38	20.00	612.55
East end of W. Appr. Slab	374+91.38	20.00	612.32

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN	DATE - December 4, 2012
CHECKED - STEPHEN M. RYAN			
DRAWN - h.t. duong	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - GRA/FT			REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037-0178

SHEET NO. 5 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	46

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

NORTH CURB LINE

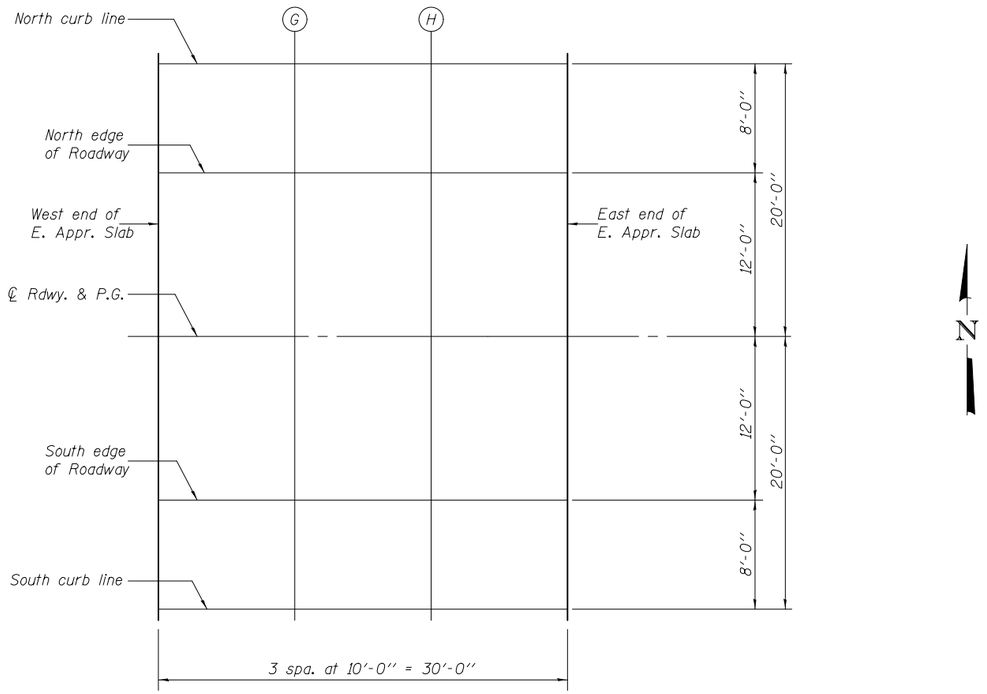
Location	Station	Offset	Theoretical Grade Elevations
West end of E. Appr. Slab	375+71.88	-20.00	610.75
G	375+81.88	-20.00	610.58
H	375+91.88	-20.00	610.43
East end of E. Appr. Slab	376+01.88	-20.00	610.28

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West end of E. Appr. Slab	375+71.88	-12.00	610.91
G	375+81.88	-12.00	610.75
H	375+91.88	-12.00	610.59
East end of E. Appr. Slab	376+01.88	-12.00	610.45

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
West end of E. Appr. Slab	375+71.88	0.00	611.10
G	375+81.88	0.00	610.94
H	375+91.88	0.00	610.78
East end of E. Appr. Slab	376+01.88	0.00	610.63



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West end of E. Appr. Slab	375+71.88	12.00	610.91
G	375+81.88	12.00	610.75
H	375+91.88	12.00	610.59
East end of E. Appr. Slab	376+01.88	12.00	610.45

SOUTH CURB LINE

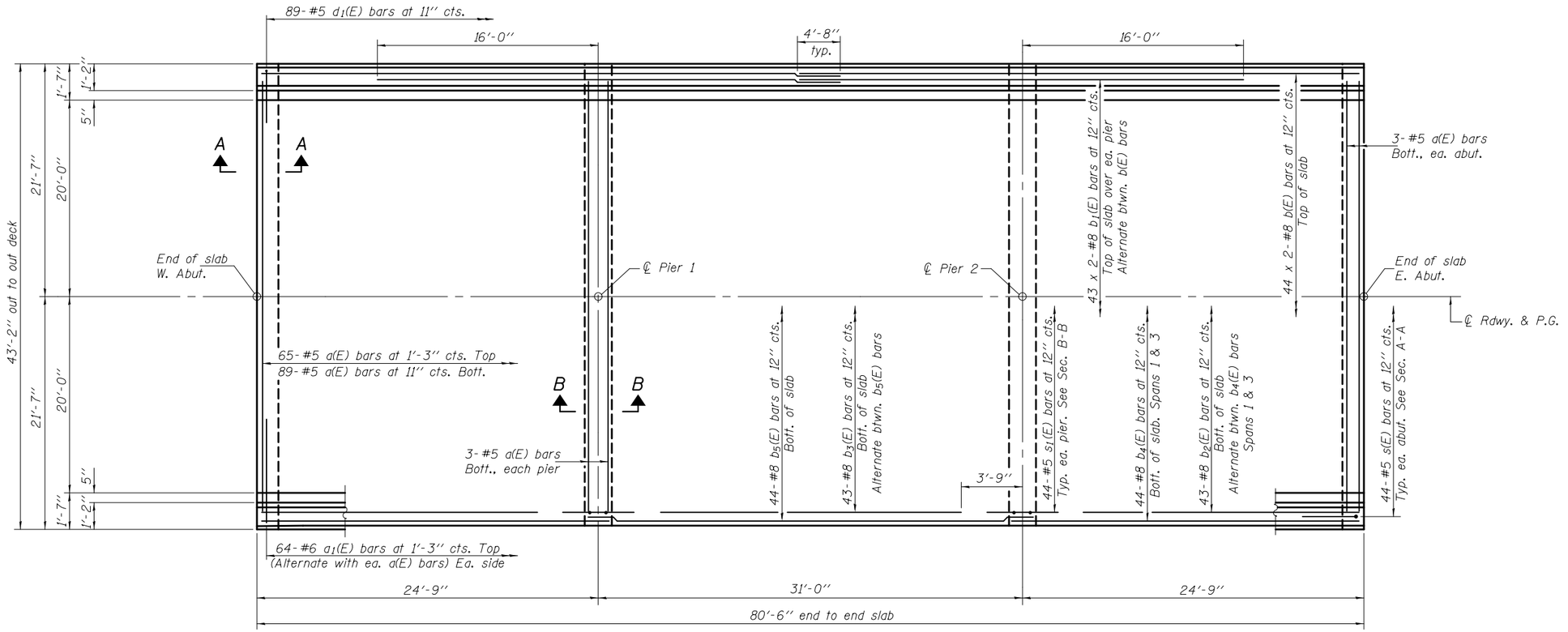
Location	Station	Offset	Theoretical Grade Elevations
West end of E. Appr. Slab	375+71.88	20.00	610.75
G	375+81.88	20.00	610.58
H	375+91.88	20.00	610.43
East end of E. Appr. Slab	376+01.88	20.00	610.28

DESIGNED -	FESSEHA TEKLEHAIMANOT	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN
CHECKED -	STEPHEN M. RYAN	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES
DRAWN -	h.t. duong	DATE -	December 4, 2012
CHECKED -	GRA/FT	REVISED	
		REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

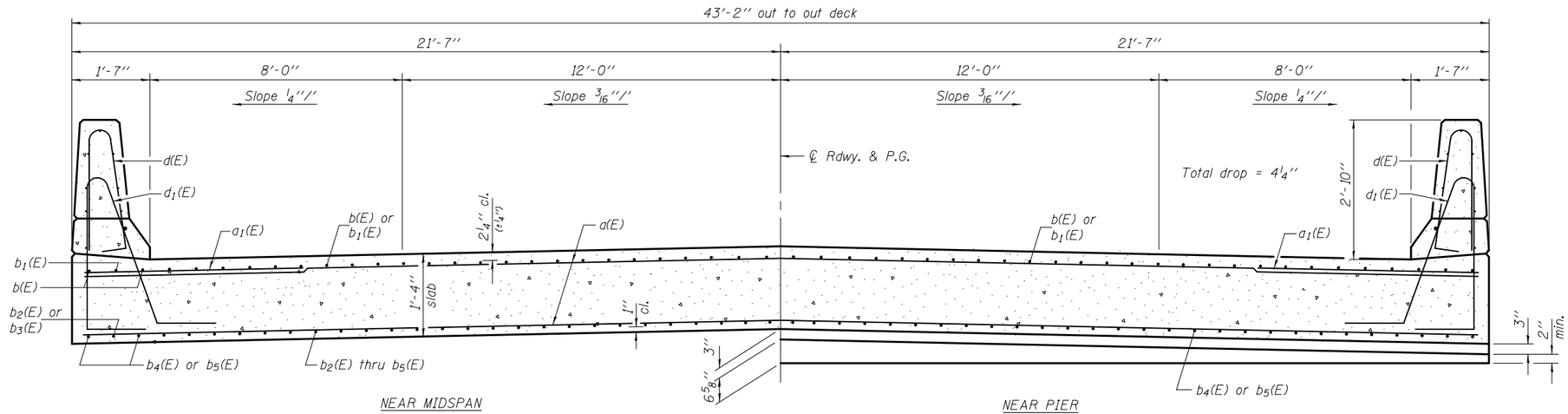
TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037-0178
SHEET NO. 6 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	47
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		



PLAN

Notes: See sheet 8 of 15 for superstructure details and Bill of Material.
See sheet 8 of 15 for parapet reinforcement.
See sheet 8 of 15 for Sections A-A & B-B.
Bars indicated thus 44 x 2- #8 etc. indicates 44 lines of bars with 2 lengths per line.

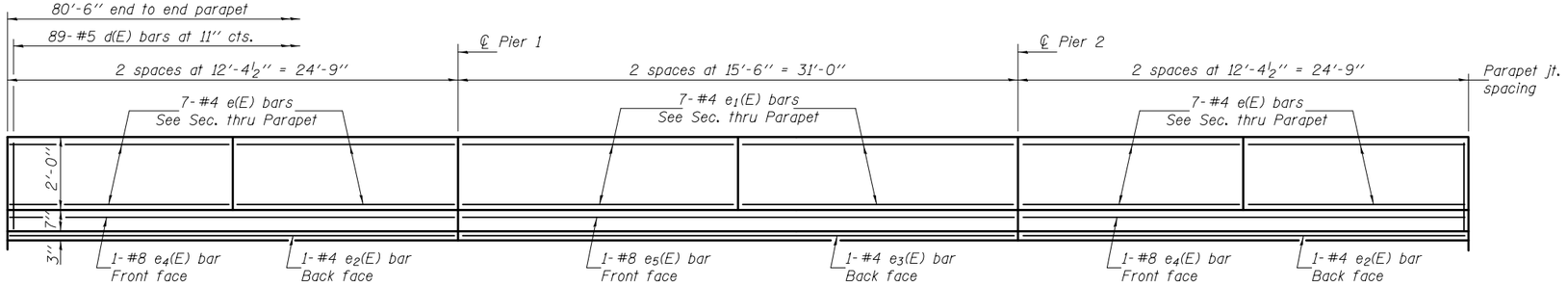


NEAR MIDSPAN NEAR PIER

CROSS SECTION
(Looking east)

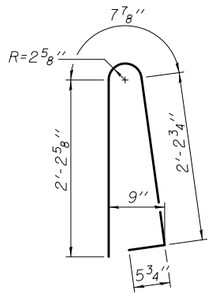
DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 037-0178	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					226	3T & 3BR-1	HENRY	210	48
DRAWN - h.t. duong	PASSED	REVISED		SHEET NO. 7 OF 15 SHEETS			CONTRACT NO. 64F25		
CHECKED - GRA/FT		REVISED					ILLINOIS FED. AID PROJECT		

ACTING ENGINEER OF BRIDGE DESIGN
ACTING ENGINEER OF BRIDGES AND STRUCTURES

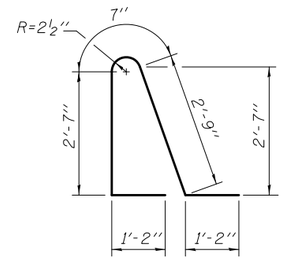


INSIDE ELEVATION OF PARAPET

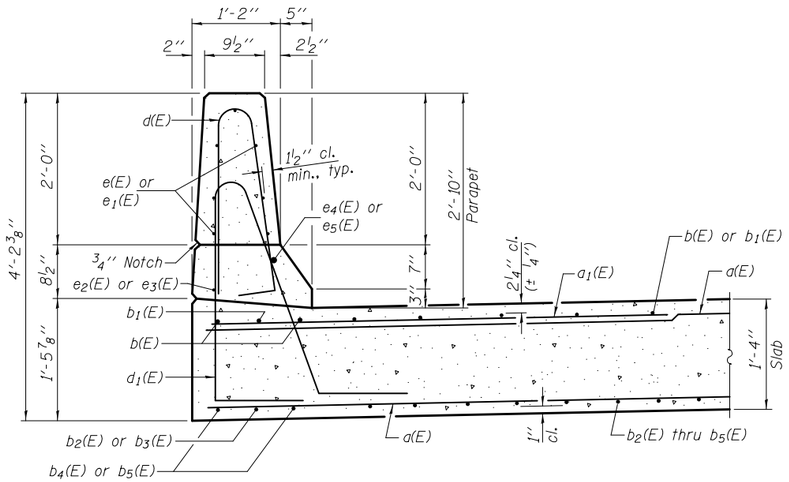
(North parapet - Looking north; South parapet similar)



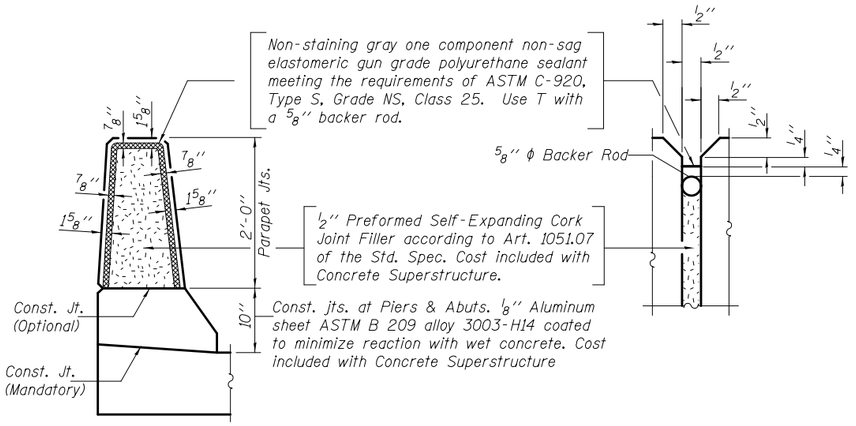
BAR d(E)



BAR d_1(E)



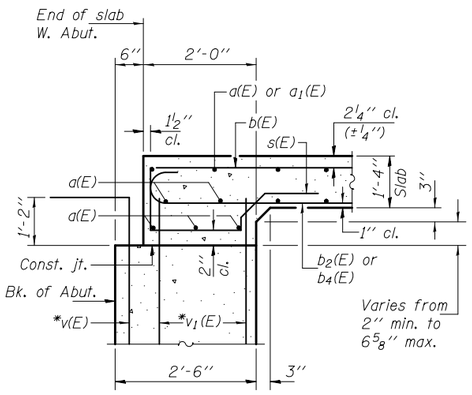
SECTION THRU PARAPET



PARAPET JOINT DETAILS

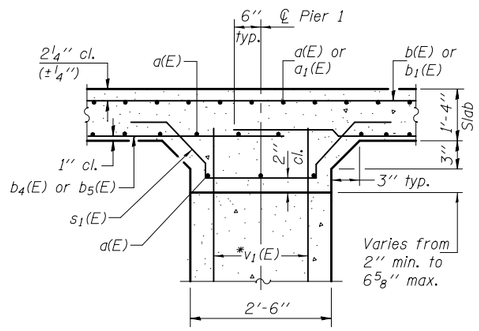
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	166	#5	42'-10"	
a_1(E)	128	#6	6'-6"	
b(E)	88	#8	42'-6"	
b_1(E)	86	#8	33'-10"	
b_2(E)	86	#8	23'-7"	
b_3(E)	43	#8	23'-6"	
b_4(E)	88	#8	26'-1"	
b_5(E)	44	#8	32'-0"	
d(E)	178	#5	5'-7"	
d_1(E)	178	#5	8'-3"	
e(E)	56	#4	12'-1"	
e_1(E)	28	#4	15'-3"	
e_2(E)	4	#4	24'-5"	
e_3(E)	2	#4	30'-8"	
e_4(E)	4	#8	24'-5"	
e_5(E)	2	#8	30'-8"	
s(E)	88	#5	5'-6"	
s_1(E)	88	#5	6'-8"	
Reinforcement Bars, Epoxy Coated		Pound	49370	
Concrete Superstructure		Cu. Yds.	199.9	

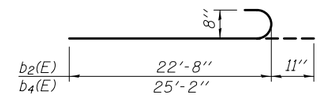


SECTION A-A

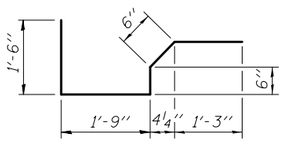
*v(E) & v_1(E) bars billed with abutments & piers



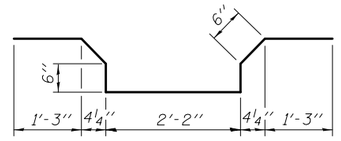
SECTION B-C



BARS b_2(E) & b_4(E)



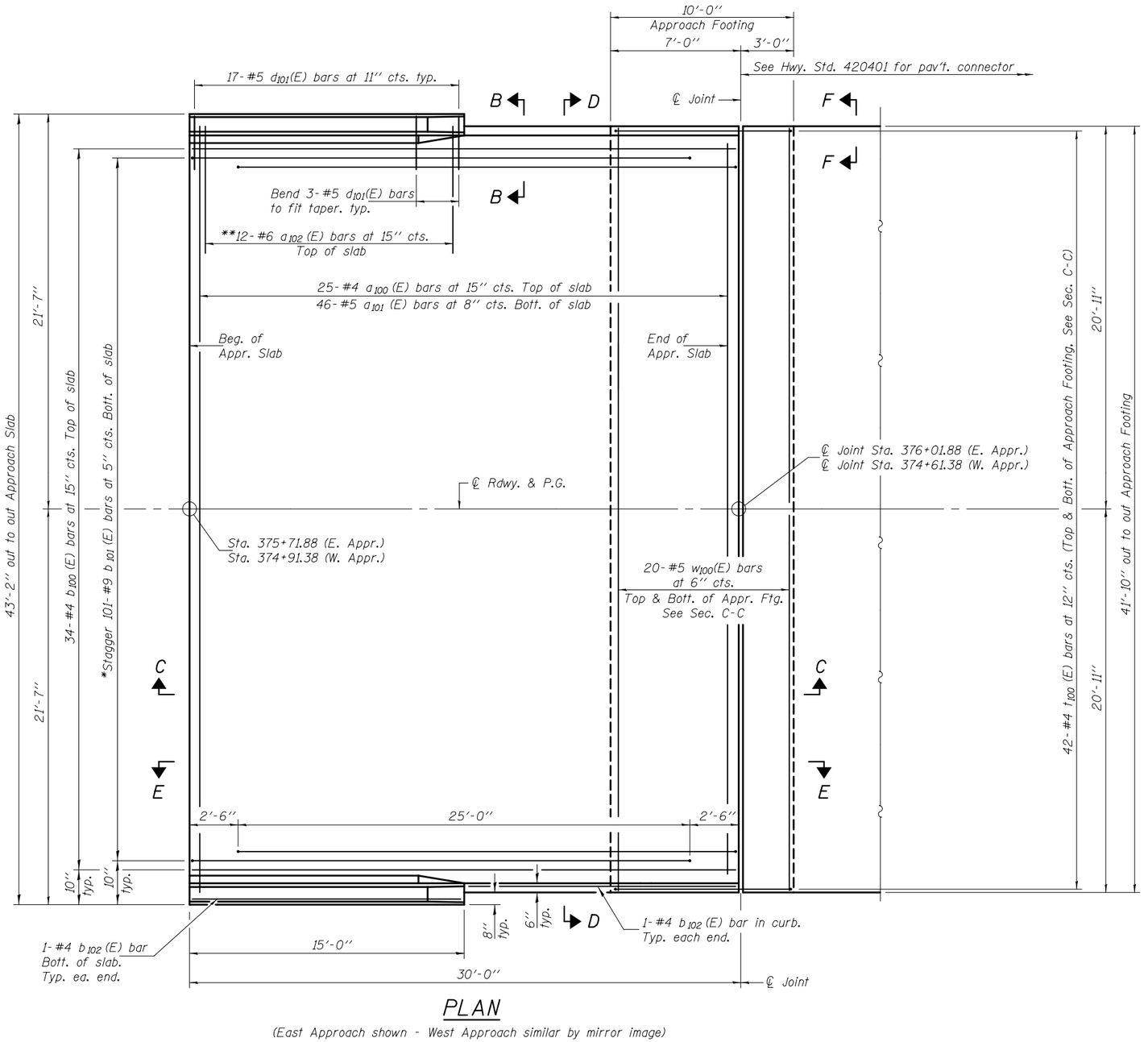
BAR s(E)



BAR s_1(E)

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - STEPHEN M. RYAN	ACTING ENGINEER OF BRIDGE DESIGN		**SUPERSTRUCTURE DETAILS**
DRAWN - h.t. duong	PASSED	REVISED	**STRUCTURE NO. 037-0178**
CHECKED - GRA/FT	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	SHEET NO. 8 OF 15 SHEETS

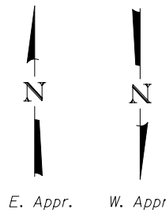
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	49
		CONTRACT NO. 64F25		
		ILLINOIS	FED. AID PROJECT	



PLAN

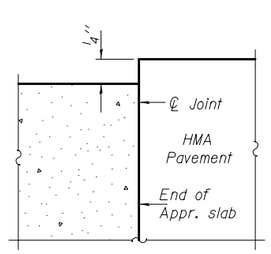
(East Approach shown - West Approach similar by mirror image)

*Tilt #9 b_{101}(E) bars as required to maintain clearance.
**Spaced between a_{100}(E) bars, typ. ea. parapet.

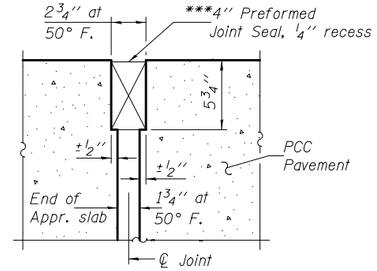


Notes: See sheet 10 of 15 for Sections C-C & D-D and View E-E.
a_{100}(E), a_{101}(E), and w_{100}(E) bar spacings measured along ℄ Rdwy.

***Cost included with Concrete Superstructure.

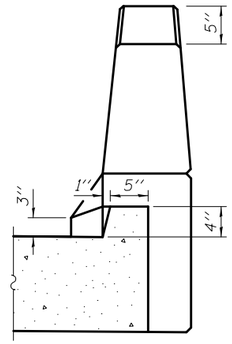


FLEXIBLE PAVEMENT

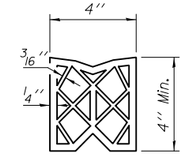


RIGID PAVEMENT

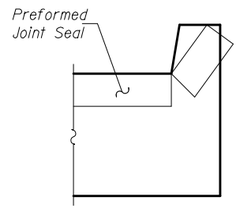
DETAIL A



VIEW B-B



PREFORMED JOINT SEAL

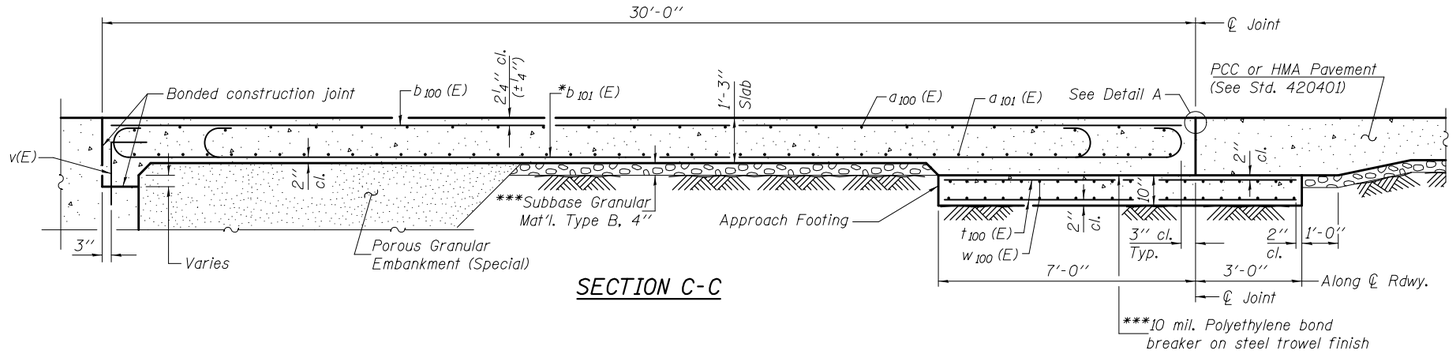


VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

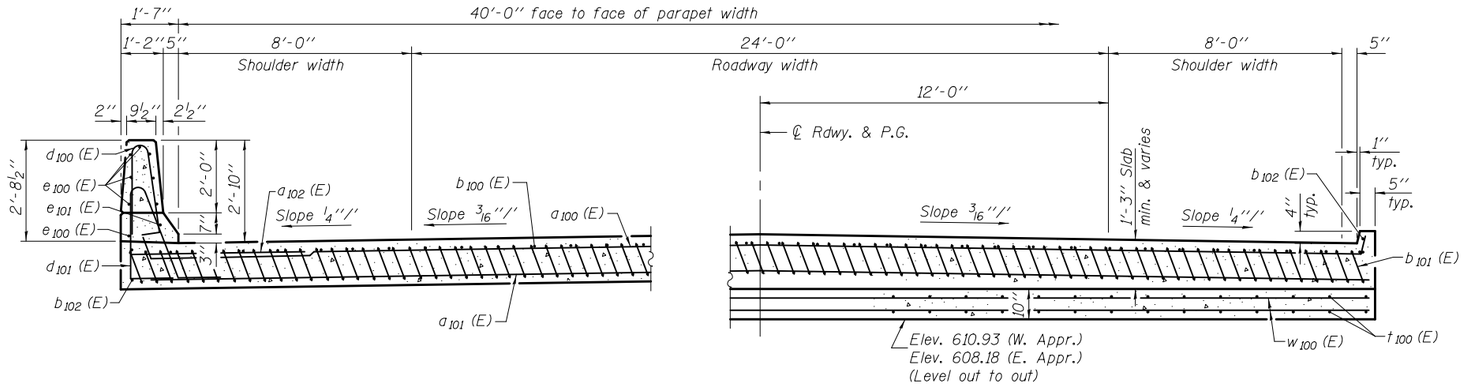
DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	Joyce F. Schaffer ACTING ENGINEER OF BRIDGE DESIGN	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 037-0178	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN						226	3T & 3BR-1	HENRY	210	50
DRAWN - h.t. duong	PASSED		REVISED					CONTRACT NO. 64F25		
CHECKED - GRA/FT		A. Carl Bronzo ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 9 OF 15 SHEETS			ILLINOIS FED. AID PROJECT		

Notes:
See sheet 9 of 15 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bars details, see sheets 11, 12, & 13 of 15.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 15.
For additional parapet details, see sheet 8 of 15.



SECTION C-C

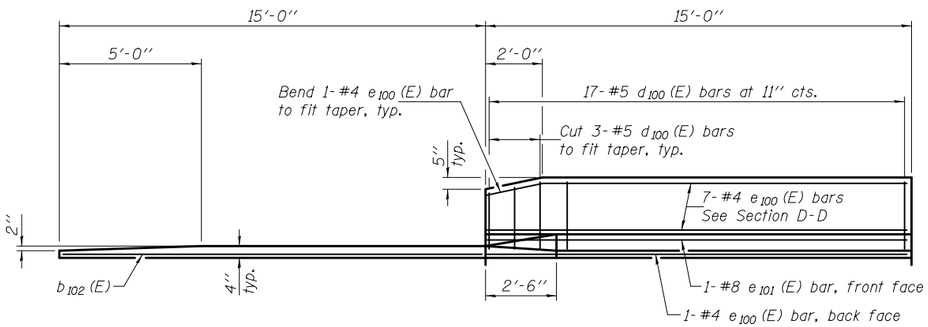
*Tilt #9 b 101 (E) bars as required to maintain clearance.
***Cost included with Concrete Superstructure.



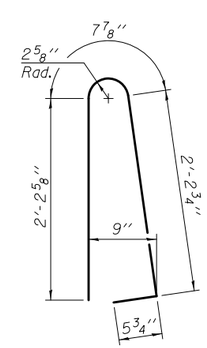
NEAR ABUTMENT

AT APPROACH FOOTING

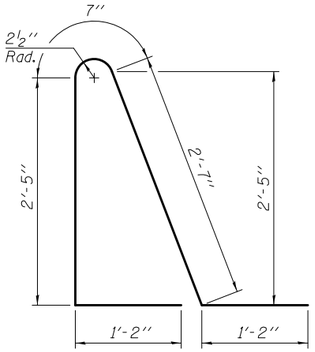
SECTION D-D
(See Plan for dimensions not shown)



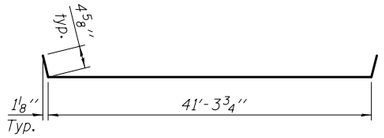
VIEW E-E



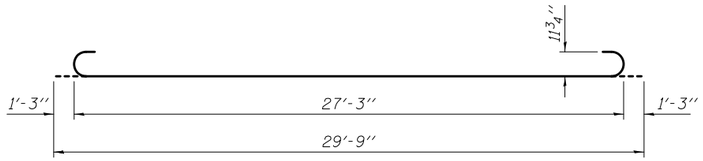
BAR d 100 (E)



BAR d 101 (E)



BAR a 100 (E)



BAR b 101 (E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a 100 (E)	50	#4	42'-1"	
a 101 (E)	92	#5	41'-6"	
a 102 (E)	48	#6	6'-6"	
b 100 (E)	68	#4	29'-8"	
b 101 (E)	202	#9	29'-9"	
b 102 (E)	8	#4	14'-8"	
d 100 (E)	68	#5	5'-7"	
d 101 (E)	68	#5	7'-11"	
e 100 (E)	32	#4	14'-8"	
e 101 (E)	4	#8	14'-8"	
t 100 (E)	84	#4	9'-8"	
w 100 (E)	80	#5	41'-6"	
Concrete Superstructure			Cu. Yd.	125.7
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	33150

DESIGNED - FESSEHA TEKLEHAIMANOT
CHECKED - STEPHEN M. RYAN
DRAWN - h.t. duong
CHECKED - GRA/FT

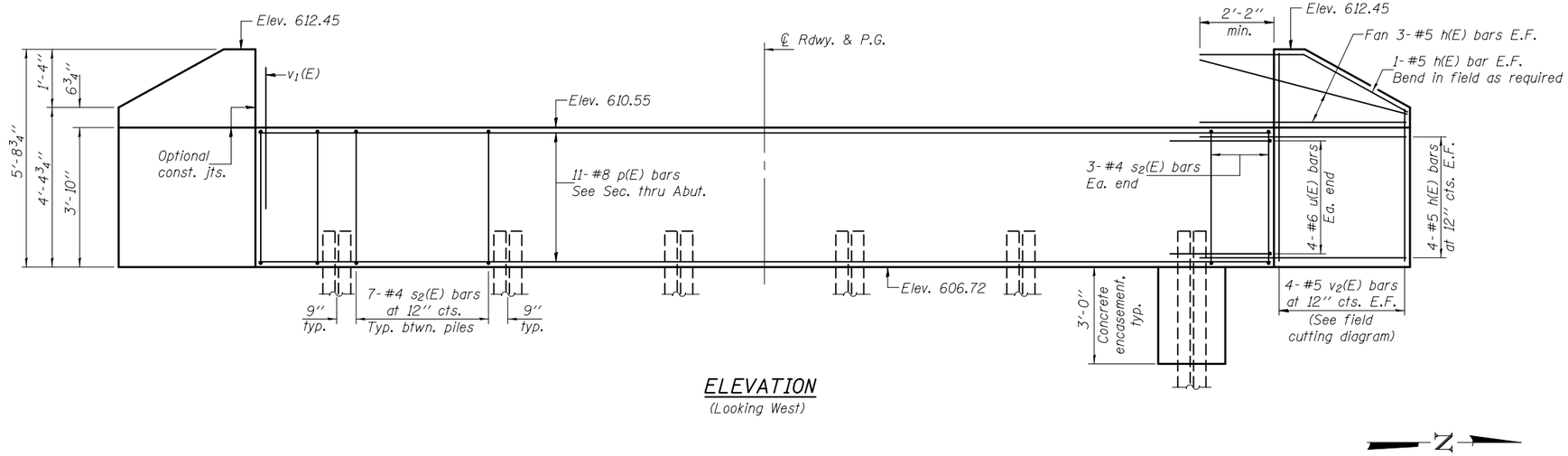
EXAMINED
ACTING ENGINEER OF BRIDGE DESIGN
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - December 4, 2012
REVISED
REVISED

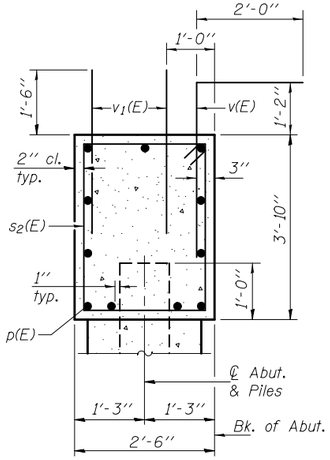
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 037-0178
SHEET NO. 10 OF 15 SHEETS

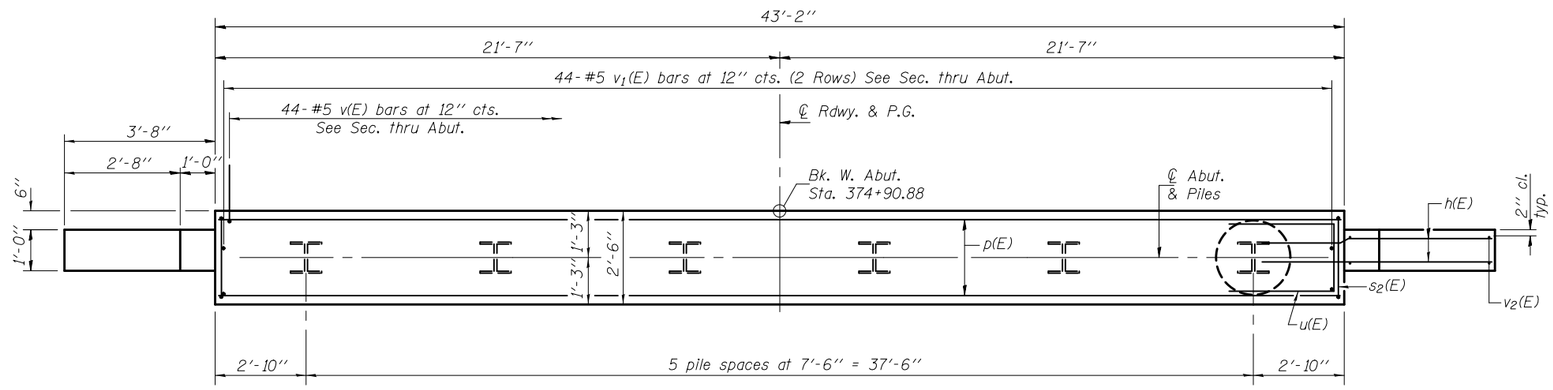
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	51
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			



ELEVATION
(Looking West)



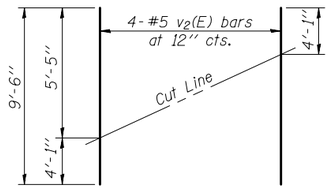
SEC. THRU ABUT.



PLAN

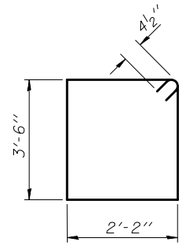
PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 230 Kips
Est. Length: 27'
No. Production Piles: 5
No. Test Piles: 1

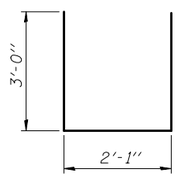


FIELD CUTTING DIAGRAM

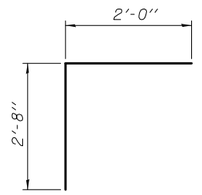
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)



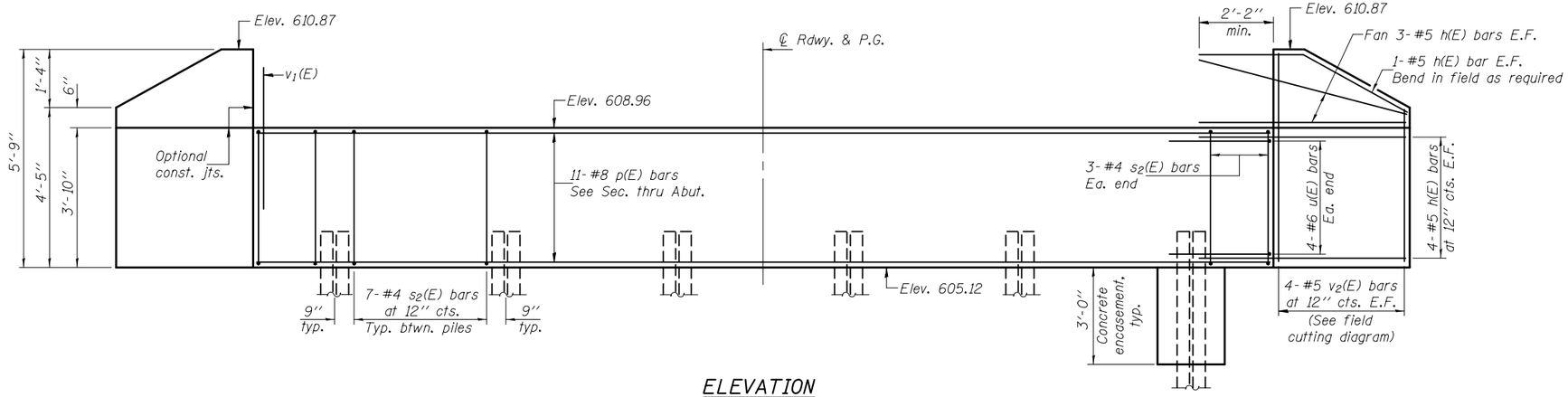
BAR v(E)

BILL OF MATERIAL

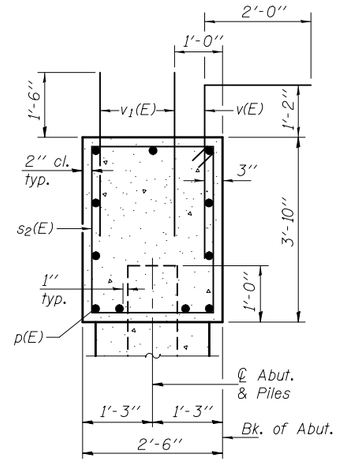
Bar	No.	Size	Length	Shape
h(E)	32	#5	6'-0"	
p(E)	11	#8	42'-10"	
s2(E)	41	#4	12'-1"	
u(E)	8	#6	8'-1"	
v(E)	44	#5	4'-8"	
v1(E)	88	#5	3'-0"	
v2(E)	8	#5	9'-6"	
Structure Excavation			Cu. Yd.	28.1
Concrete Structures			Cu. Yd.	16.8
Reinforcement Bars, Epoxy Coated			Pound	2460
Furnishing Steel Piles HP12x53			Foot	135
Driving Piles			Foot	135
Test Pile Steel HP12x53			Each	1
Concrete Encasement			Cu. Yd.	2.1

For details of piles and concrete encasement, see sheet 14 of 15.

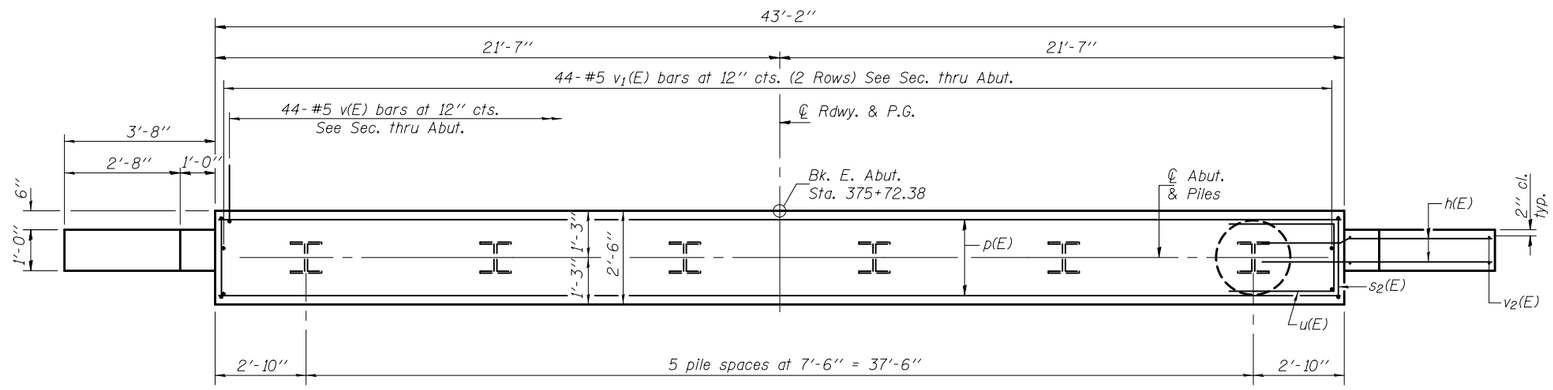
DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT STRUCTURE NO. 037-0178	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					226	3T & 3BR-1	HENRY	210	52
DRAWN - h.t. duong	PASSED	REVISED		SHEET NO. 11 OF 15 SHEETS			CONTRACT NO. 64F25		
CHECKED - GRA/FT	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED					ILLINOIS FED. AID PROJECT		



ELEVATION
(Looking East)



SEC. THRU ABUT.



PLAN

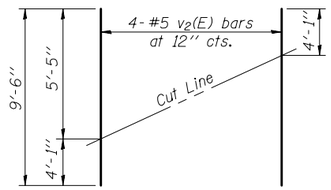
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	6'-0"	——
p(E)	11	#8	42'-10"	——
s_2(E)	41	#4	12'-1"	□
u(E)	8	#6	8'-1"	⊐
v(E)	44	#5	4'-8"	⌐
v_1(E)	88	#5	3'-0"	——
v_2(E)	8	#5	9'-6"	——
Structure Excavation		Cu. Yd.	28.1	
Concrete Structures		Cu. Yd.	16.8	
Reinforcement Bars, Epoxy Coated		Pound	2460	
Furnishing Steel Piles HP12x53		Foot	160	
Driving Piles		Foot	160	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

For details of piles and concrete encasement, see sheet 14 of 15.

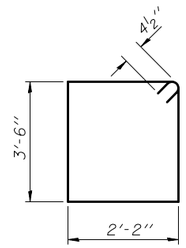
PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 230 Kips
Est. Length: 32'
No. Production Piles: 5
No. Test Piles: 1

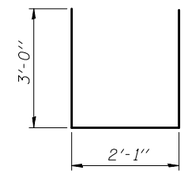


FIELD CUTTING DIAGRAM

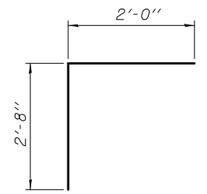
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s_2(E)



BAR u(E)

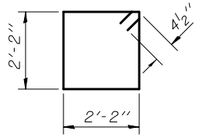


BAR v(E)

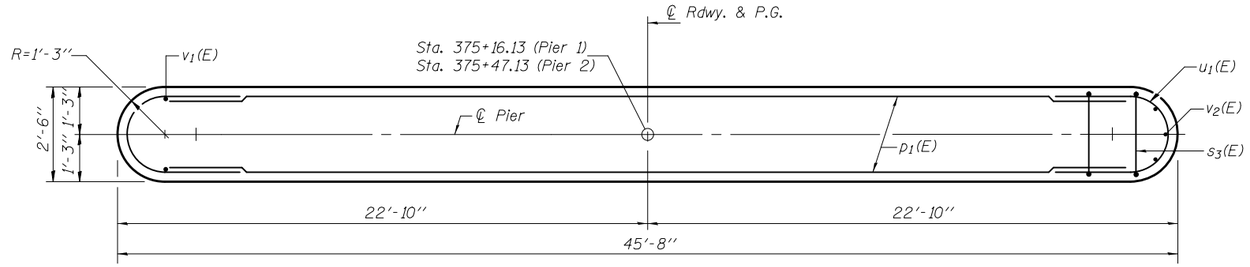
DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**EAST ABUTMENT STRUCTURE NO. 037-0178**
CHECKED - STEPHEN M. RYAN				SHEET NO. 12 OF 15 SHEETS
DRAWN - h.t. duong	PASSED	REVISED		
CHECKED - GRA/FT	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		

ACTING ENGINEER OF BRIDGE DESIGN

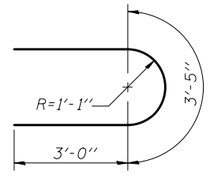
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	53
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



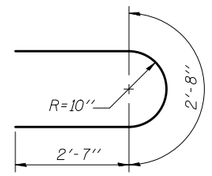
BAR s_3(E)



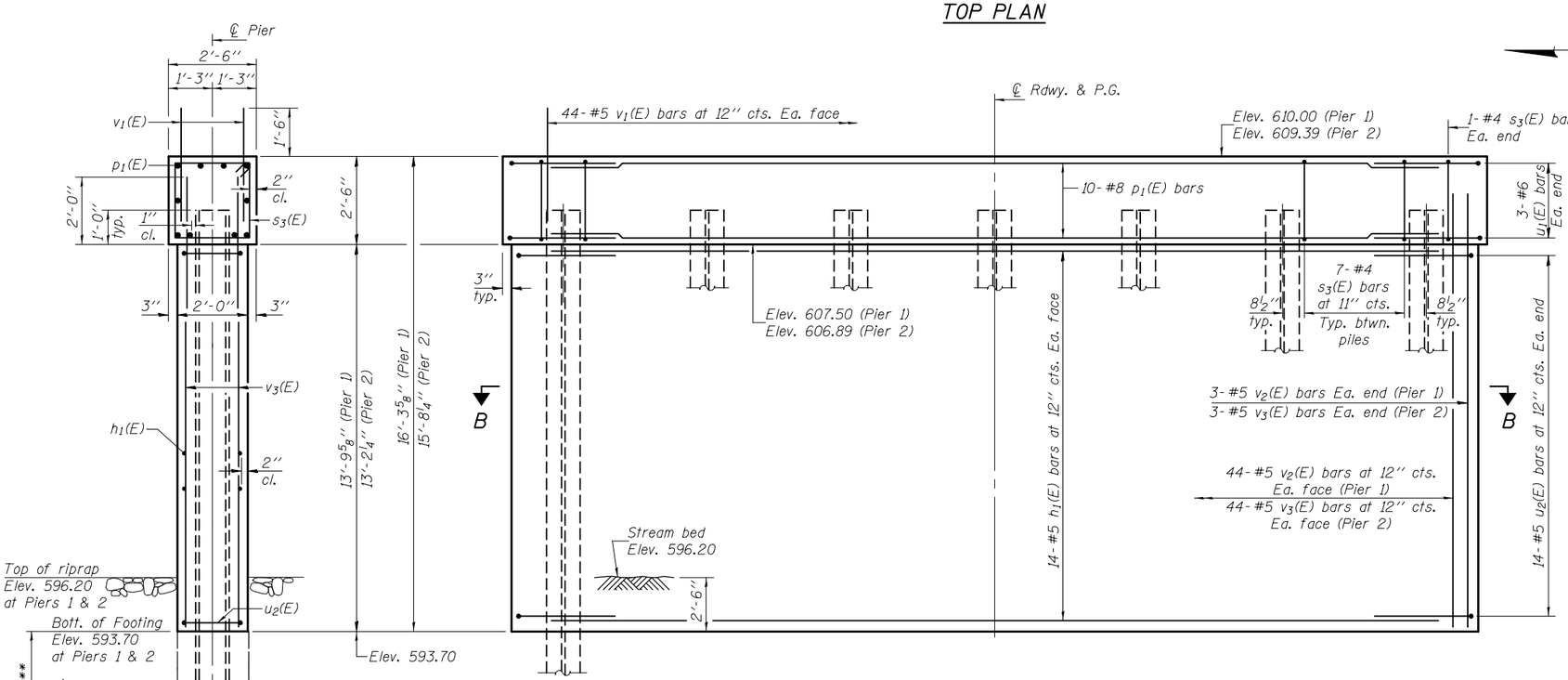
TOP PLAN



BAR u_1(E)



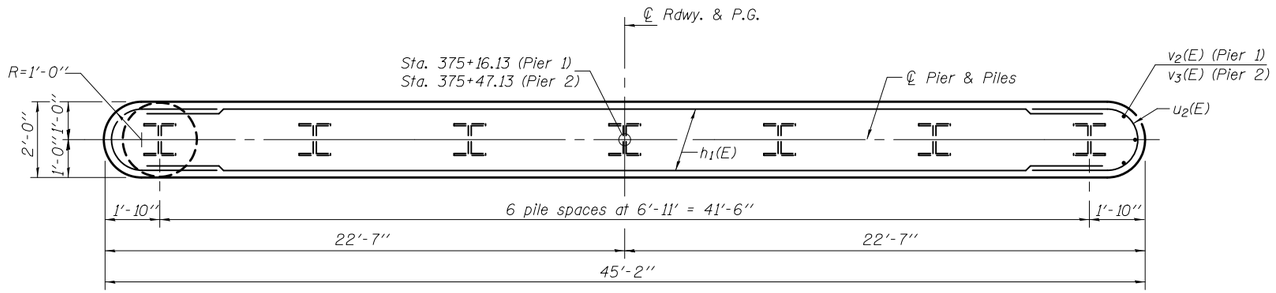
BAR u_2(E)



ELEVATION
(Looking East)

**Backfill remaining holes with Class SI Concrete or Porous granular Embankment. Cost is included with Setting Piles in Rock.

END VIEW



SECTION B-B

PILE DATA - PIER 1

Type: Steel HP12x63
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 480 Kips
Est. Length: 44'
No. Production Piles: 7
No. Test Piles: 0
Est. Top of Rock Elev.: 580.00
Rock Socket Depth: 15'-0"
Rock Socket Diameter: 2'-0"

PILE DATA - PIER 2

Type: Steel HP12x63
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 480 Kips
Est. Length: 43'
No. Production Piles: 7
No. Test Piles: 0
Est. Top of Rock Elev.: 580.00
Rock Socket Depth: 15'-0"
Rock Socket Diameter: 2'-0"

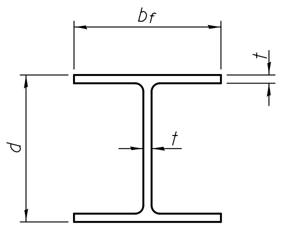
PIERS 1 & 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1(E)	56	#5	43'-2"	——
p_1(E)	20	#8	43'-2"	——
s_3(E)	88	#5	9'-5"	□
u_1(E)	12	#6	9'-5"	⊃
u_2(E)	56	#5	7'-10"	⊃
v(E)	176	#5	3'-0"	——
v_2(E)	94	#5	15'-6"	——
v_3(E)	94	#5	14'-11"	——
Cofferdam Excavation		Cu. Yd.	54.0	
Concrete Structures		Cu. Yd.	110.3	
Reinforcement Bars, Epoxy Coated		Pound	9850	
Furnishing Steel Piles HP12x63		Foot	609	
Setting Piles in Rock		Each	14	
Cofferdam (Type 1), Location 1		Each	1	
Cofferdam (Type 1), Location 2		Each	1	

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - STEPHEN M. RYAN			
DRAWN - h.t. duong	PASSED	REVISED	
CHECKED - GRA/FT	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

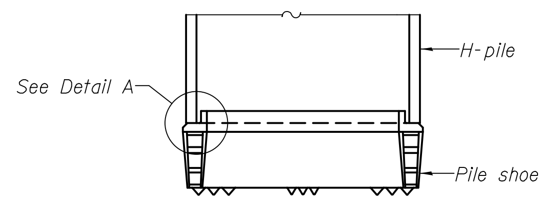
PIERS 1 & 2
STRUCTURE NO. 037-0178
SHEET NO. 13 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	54
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

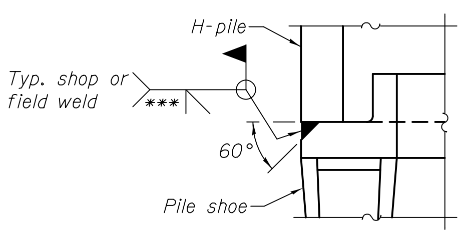


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4″	14 7/8″	13/16″	30″
x102	14″	14 3/4″	11/16″	30″
x89	13 7/8″	14 3/4″	5/8″	30″
x73	13 5/8″	14 5/8″	1/2″	30″
HP 12x84	12 1/4″	12 1/4″	11/16″	24″
x74	12 1/8″	12 1/4″	5/8″	24″
x63	12″	12 1/8″	1/2″	24″
x53	11 3/4″	12″	7/16″	24″
HP 10x57	10″	10 1/4″	9/16″	24″
x42	9 3/4″	10 1/8″	7/16″	24″
HP 8x36	8″	8 1/8″	7/16″	18″

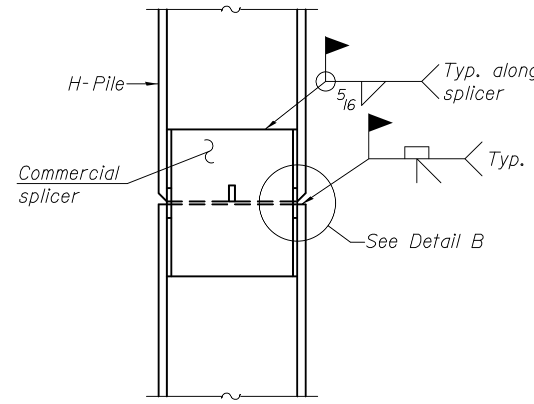


ELEVATION

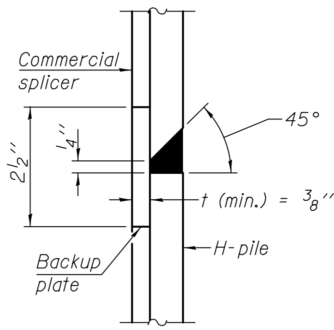


DETAIL A

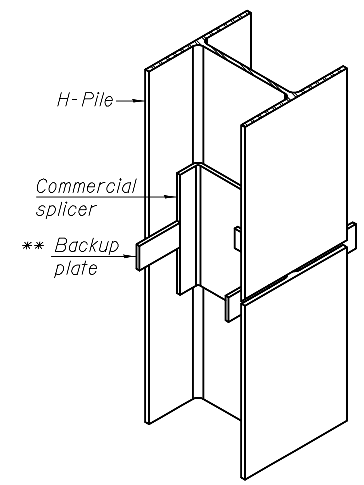
H-PILE SHOE ATTACHMENT



ELEVATION

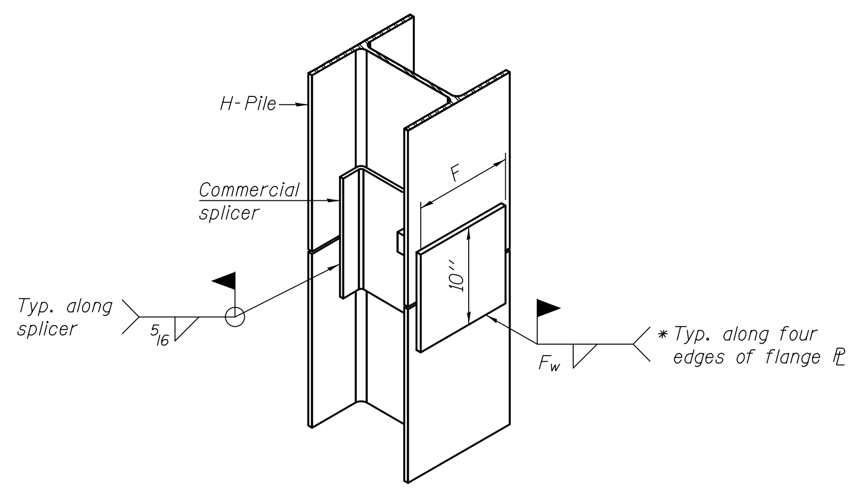


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



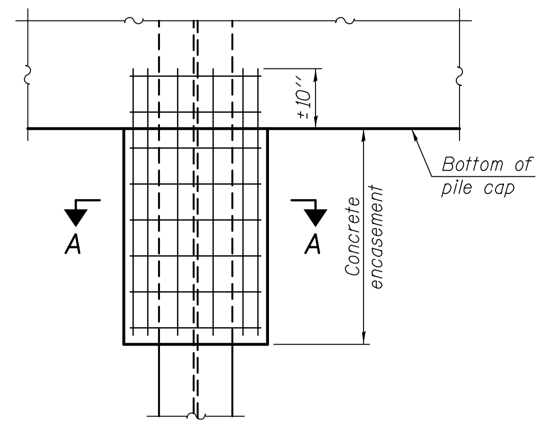
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

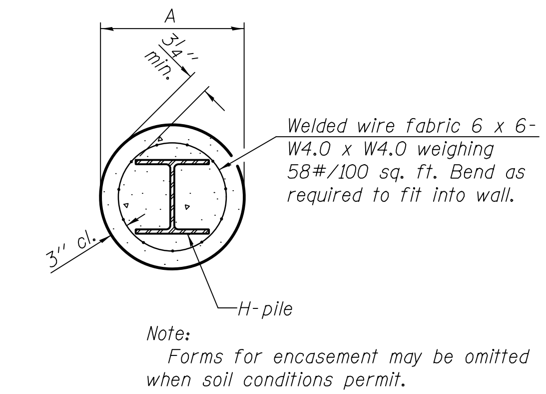
* Interrupt welds 1/4″ from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16″ min.).



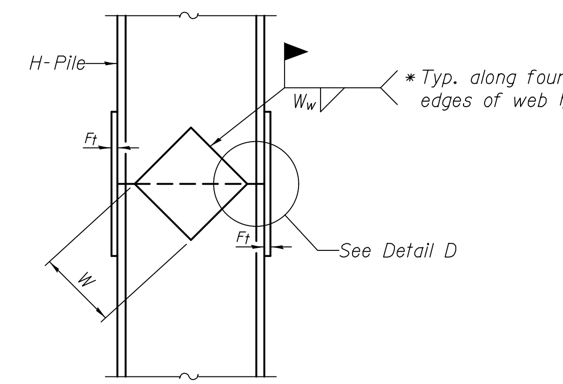
ELEVATION



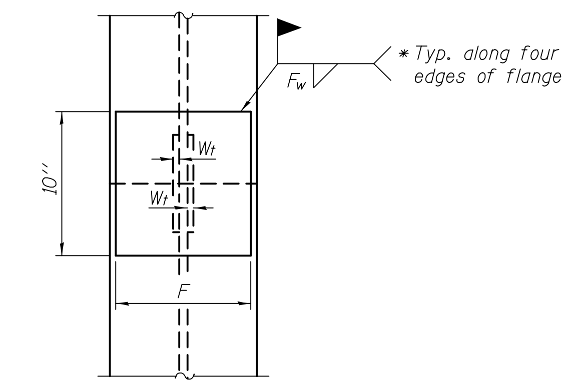
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

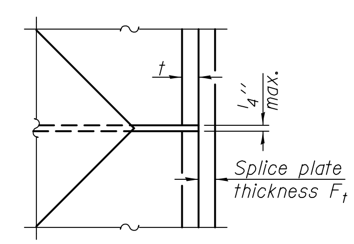
PILE ENCASEMENT



ELEVATION



END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2″	1″	7/8″	7 3/4″	5/8″	1/2″
x102	12 1/2″	7/8″	3/4″	7 3/4″	5/8″	1/2″
x89	12 1/2″	3/4″	11/16″	7 3/4″	5/8″	1/2″
x73	12 1/2″	5/8″	9/16″	7 3/4″	5/8″	1/2″
HP 12x84	10″	7/8″	11/16″	6 1/2″	5/8″	1/2″
x74	10″	7/8″	11/16″	6 1/2″	5/8″	1/2″
x63	10″	5/8″	1/2″	6 1/2″	1/2″	3/8″
x53	10″	5/8″	1/2″	6 1/2″	1/2″	3/8″
HP 10x57	8″	3/4″	9/16″	5 1/4″	1/2″	3/8″
x42	8″	5/8″	9/16″	5 1/4″	1/2″	3/8″
HP 8x36	7″	5/8″	7/16″	4 1/4″	1/2″	3/8″

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12

DESIGNED - FESSEHA TEKLEHAIMANOT	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN	DATE - December 4, 2012
CHECKED - STEPHEN M. RYAN			
DRAWN - h.t. duong	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - GRA/FT			REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 037-0187

SHEET NO. 14 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	55

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/3/09

ROUTE FAS 226 DESCRIPTION 037-0048 P92-088-09 Bridge on US 6 over Mineral Creek, 1.2 m. E. of Green River Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp, - 20NW, SEC, , TWP, 17N, RNG, 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-0048
Station 375+32

BORING NO. B-1a
Station 374+79
Offset 9.00ft Lt CL
Ground Surface Elev. 611.2 ft

Surface Water Elev. 89.5 ft
Stream Bed Elev. 88.5 ft

Groundwater Elev.:
First Encounter 586.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
10" Asphalt, 8" Concrete			
MEDIUM brown SILTY CLAY LOAM		0.5 P	20
608.70			
VERY SOFT brown LOAM	2 3 3	0.2 P	18
607.20			
-5			
MEDIUM brown LOAM	1 2 3	0.5 B	18
604.70			
VERY STIFF dark gray SILTY CLAY LOAM	0 3 3	2.3 P	22
602.20			
-10			
VERY SOFT brown SILTY CLAY LOAM	4 2 4	0.2 P	30
599.70			
SOFT dark gray CLAY LOAM	1 2 3	0.3 B	30
597.20			
-15			
MEDIUM light graytan CLAY LOAM with SILT lens	1 2 2	0.9 B	34
594.20			
LOOSE tan fine SAND	1 2 3		
591.70			
-20			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
VERY SOFT gray SILTY LOAM	2 2 3	0.2 P	30
589.70			
VERY STIFF light gray CLAY LOAM	1 3 4	2.5 S	32
587.20			
-25			
STIFF gray CLAY LOAM/SAND and COAL lens	1 2 4	1.9 S	36
584.70			
MEDIUM gray CLAY LOAM with GRAVEL	2 5 7	0.8 P	21
582.20			
-30			
HARD gray SHALEY CLAY	6 11 22	4.5 S	16
579.20			
VERY DENSE gray SHALE	15 35 53		
577.20			
-35			
VERY DENSE gray SHALE	23 31 40		
574.70			
VERY DENSE gray SHALE	32 100/7"		
572.20			
-40			

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

ROCK CORE LOG

Page 1 of 1

Date 6/3/09

ROUTE FAS 226 DESCRIPTION 037-0048 P92-088-09 Bridge on US 6 over Mineral Creek, 1.2 m. E. of Green River Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp, - 20NW, SEC, , TWP, 17N, RNG, 2E

COUNTY Henry CORING METHOD

STRUCT. NO. 037-0048
Station 375+32

BORING NO. B-1a
Station 374+79
Offset 9.00ft Lt CL
Ground Surface Elev. 611.2 ft

CORING BARREL TYPE & SIZE

Core Diameter 2 in
Top of Rock Elev. 579.20 ft
Begin Core Elev. 571.20 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Shale: dark gray, dense, fissile, having a soapy luster. Too fissile to test.	1	90	27	9	
566.20 -45					
Shale: As above, light gray and compact.	2	100	98	7.4	
561.20 -50					
End of Boring					
-55					
-60					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/4/09

ROUTE FAS 226 DESCRIPTION 037-0048 P92-088-09 Bridge on US 6 over Mineral Creek, 1.2 m. W. of Green River Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp, - 20NW, SEC, , TWP, 17N, RNG, 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-0048
Station 375+32

BORING NO. B-2a
Station 375+87
Offset 8.00ft Rt CL
Ground Surface Elev. 609.4 ft

Surface Water Elev. 88.5 ft
Stream Bed Elev. 87.5 ft

Groundwater Elev.:
First Encounter 591.9 ft
Upon Completion 594.4 ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
8" Asphalt, 8" Concrete			
LOOSE brown SANDY LOAM	2 1 3		10
605.40			
-5			
STIFF dark gray SILTY CLAY LOAM	1 3 4	1.0 B	27
602.90			
MEDIUM gray SILTY LOAM	0 2 2	0.6 B	33
600.40			
-10			
SOFt gray SILTY LOAM	1 1 3	0.4 B	28
597.90			
SOFT gray LOAM with SAND lens	0 1 2	0.3 P	21
594.90			
-15			
VERY LOOSE gray dirty SAND with LOAM lens	0 1 3		28
592.40			
VERY SOFT gray LOAM with 16.5RGANICS	0 0 2	0.2 P	125
590.40			
-20			

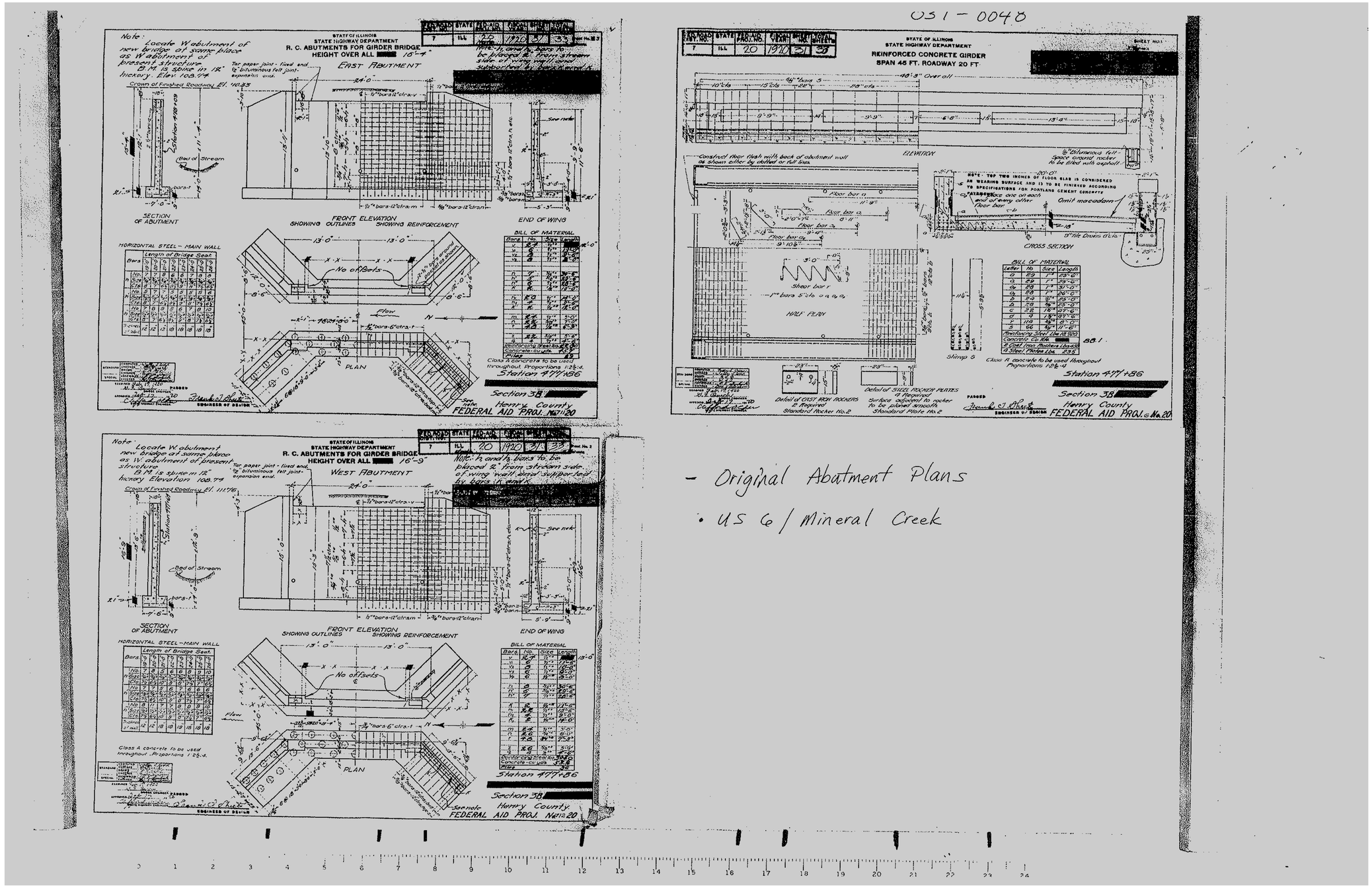
DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
SOFT gray SILTY CLAY	2 1 3	0.3 P	28
587.90			
VERY SOFT gray SILTY LOAM	0 1 2	0.2 B	32
584.90			
-25			
MEDIUM gray dirty SAND and medium GRAVEL	0 4 7		
582.90			
DENSE gray dirty SAND/GRAVEL with COAL bottom 6"	25 20 26		
579.90			
-30			
VERY DENSE gray SHALE	11 30 42		
577.90			
VERY DENSE gray SHALE	24 38 68		
575.40			
-35			
VERY DENSE gray SHALE	100/7"		
Auger Refusal at 37'			
572.40			
End of Boring			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DESIGNED -	EXAMINED		DATE - December 4, 2012	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 037-0178**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -		ACTING ENGINEER OF BRIDGE DESIGN				226	3T & 3BR-1	HENRY	210	56
DRAWN -	PASSED		REVISED							CONTRACT NO. 64F25
CHECKED -		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 15 OF 15 SHEETS			ILLINOIS	FED. AID PROJECT	

EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)



- Original Abatment Plans
- US 6 / Mineral Creek

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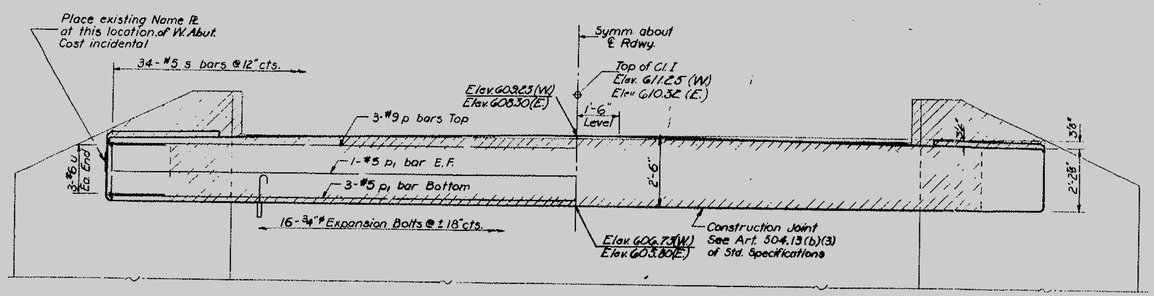
								ILLINOIS	FED. AID PROJECT	

EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)

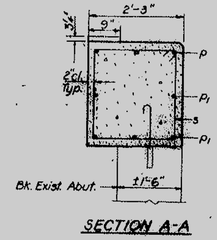
~~STATE OF ILLINOIS~~
~~DEPARTMENT OF PUBLIC WORKS & BUILDINGS~~
~~DIVISION OF HIGHWAYS~~

U.S.G.	3BR	HENRY	8	8

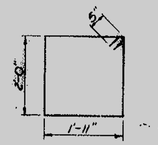
SHEET NO. 5
5 SHEETS



ELEVATION



SECTION A-A



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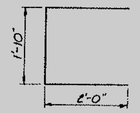
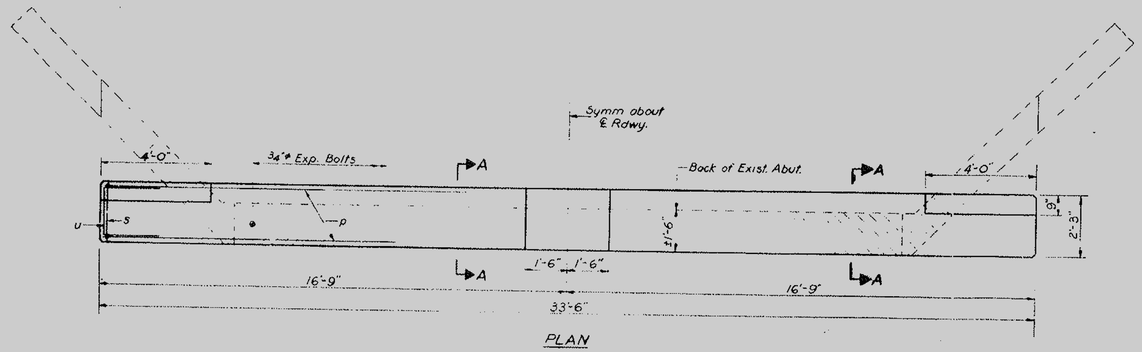


BAR u



PLAN

TWO ABUTS.
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p	6	#9	33'-3"	
p1	10	#5	33'-3"	
s	68	#5	8'-8"	
u	12	#6	5'-10"	
Class X Concrete			Cu. Yds.	13.5
Reinforcement Bars			Lbs	1750
Expansion Bolts ¾"ϕ			Each	32
Concrete Removal			Cu. Yds	9.0

NOTE
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.

DESIGNED		19
CHECKED	P.A.	EXAMINED
DRAWN	J.L. Armstrong	PASSED
CHECKED	N.J.	APPROVED

ABUTMENTS
S.B.I. R.I.T. SEC. 3 BR
HENRY COUNTY
STA 477+86

A-10

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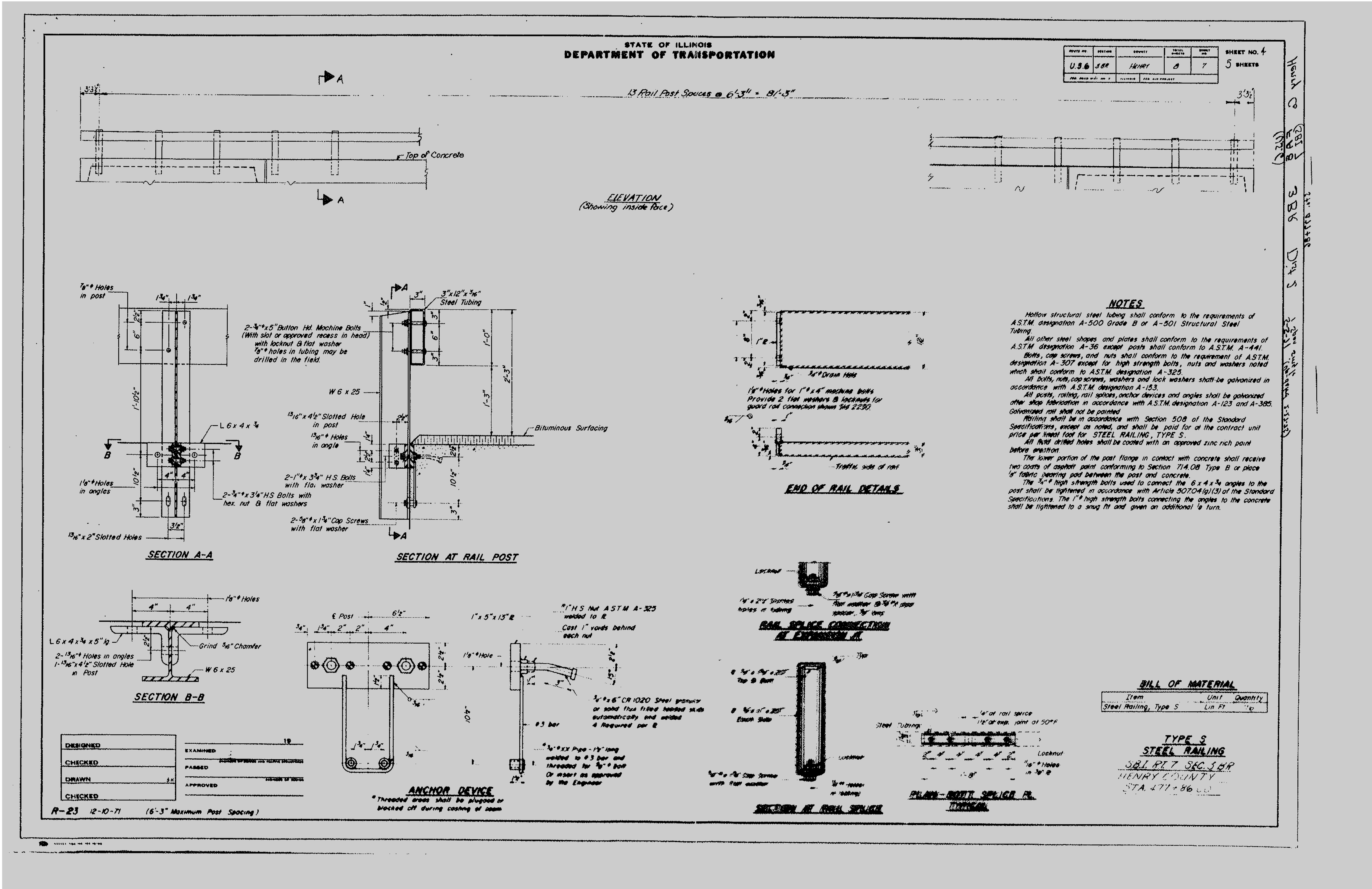
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	58
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)



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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

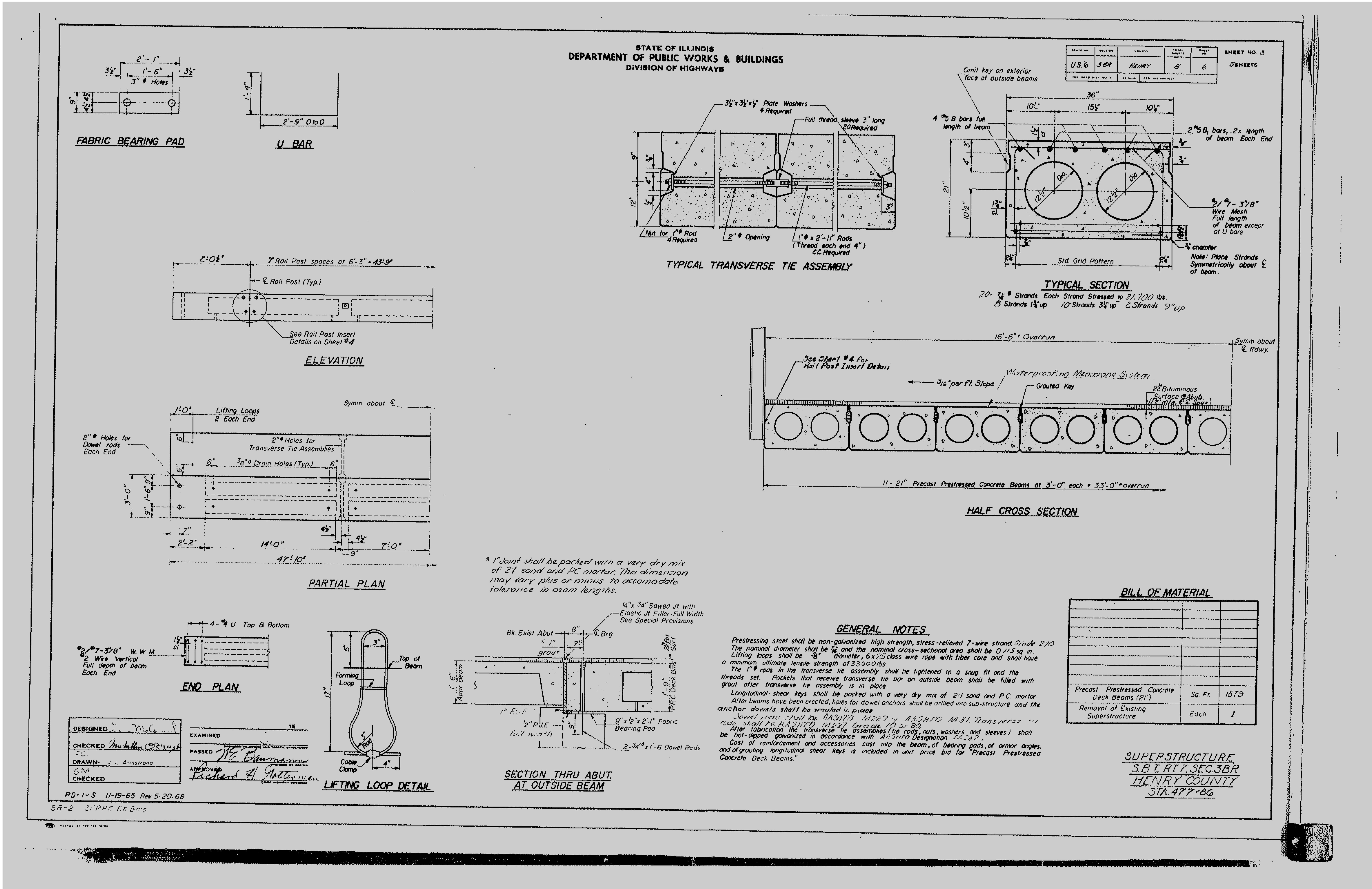
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	59

CONTRACT NO. 64F25

ILLINOIS | FED. AID PROJECT

EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)



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	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 64F25				
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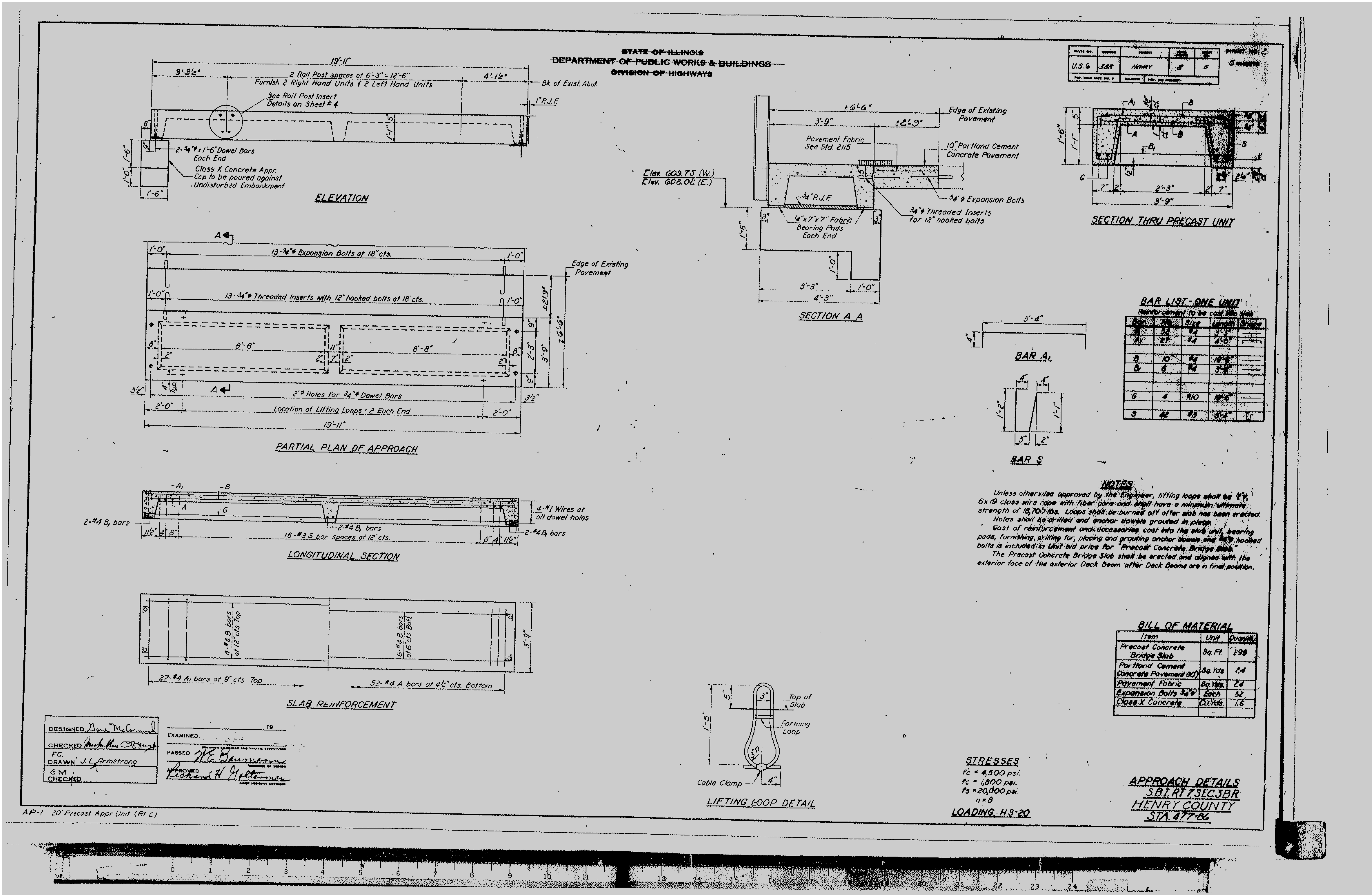
EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)



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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	61

CONTRACT NO. 64F25

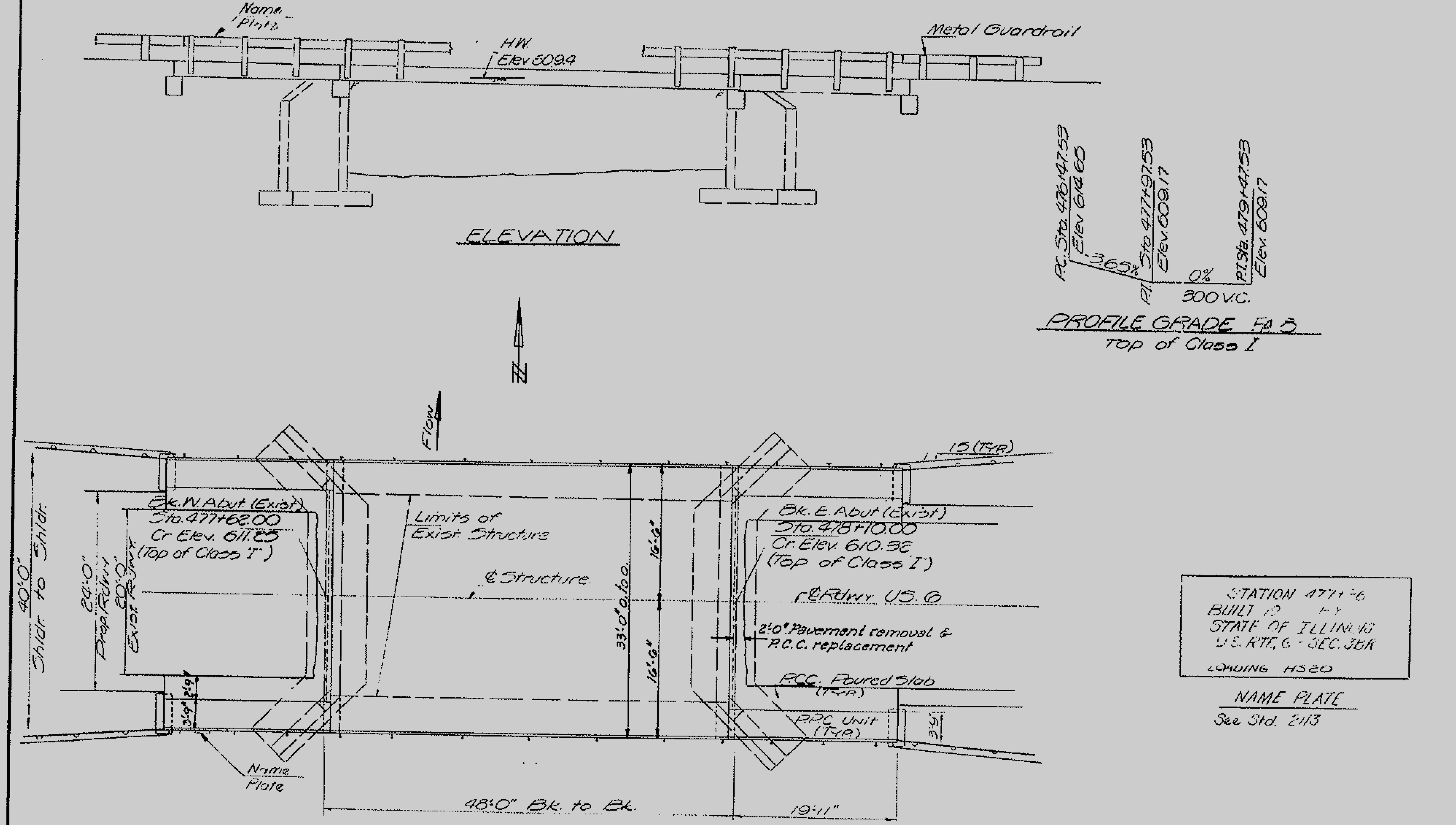
ILLINOIS FED. AID PROJECT

EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)

B.M. □ on ℄ HDWL. Lt. Sta. 481+50 341' E. Bridge Abut. Elev. 608.74
Existing Structure: Built as S.B.I. Rte. 7 Sec. 38 in 1921
Superstr. is R.C. Through Girder. Substr. is R.C. Abuts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
U.S. 6	38R	HENRY	8	4	SHEET NO. 1 / 5 SHEETS



STATION 477+86
BUILT 19__ BY
STATE OF ILLINOIS
U.S. RT. 6 – SEC. 38R
LOADING HS20

NAME PLATE
See Std. 2113

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the Contractor to verify all dimensions & conditions existing in the field prior to construction & ordering of materials.

Expansion bolts shall consist of self-drilling expansion shields & 3/4"ϕ hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete except as otherwise shown.

Shoulder transition to wingwall shall be shaped with broken concrete - cost incidental.

Limits of Waterproofing Membrane System shall be two feet back of abutments and out to out of deck.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

BILL OF MATERIAL

ITEM	UNIT	SUB.	SUPER.	TOTAL
Portland Cement Concrete Pavement (10")	Sq. yds.			24
Pavement Fabric	Sq. yds.			24
Concrete Removal	Cu. yds.	9.0		9.0
Expansion Bolts (3/4"ϕ)	Each			84
Class X Concrete	Cu. yds.	13.5	1.6	15.1
Precast Concrete Bridge Slab	Sq. ft.			299
Precast Prestressed Concrete Deck Beams (21")	Sq. ft.		1,579	1,579
Steel Railing, Type S	Lin. ft.		176	176
Reinforcement bars	Lbs.	1,750		1,750
Pavement Removal & P.C.C. Replacement, Type 2 (10")	Sq. yds.			9
Removal of Existing Superstructures	Each			1
* Waterproofing Membrane System	Sq. yds.		191	191
Bituminous Concrete Surface Course	Tons		20	20
* Portland Cement Mortar Fairing Course	Lin. ft.		478	478
Name Plate	Each		1	1

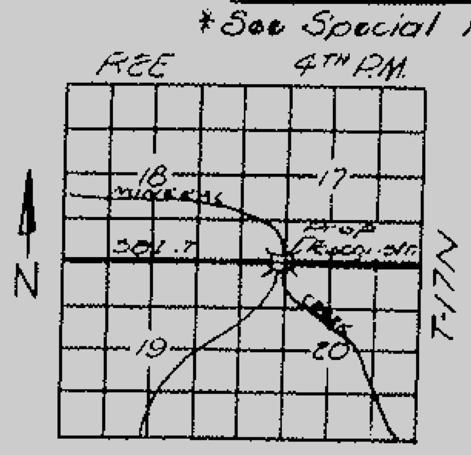
* See Special Provisions

DESIGN STRESSES
FIELD UNITS
f'c: 1,000 psi (Sub.)
fs: 20,000 psi (Reinf.)
vc: 75 psi (Footing)
n: 10

PRECAST PRESTRESSED UNITS
f'c: 5,000 psi
f'ci: 4,000 psi
f's: 270,000 psi (Strands)
fsi: 188,700 psi (Strands)

Allow for 25 pds/Sq. Ft. for Fut. W.S.
LOADING HS20-44

WATERWAY INFORMATION
Drainage: 23 Sq. Mi.
Character: level & rolling
Present Opening: 307 Sq. Ft.
Req'd Opening: 307 Sq. Ft.
Proposed Opening: 307 Sq. Ft.
Q(50): 3960 c.f.s.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. 6 over MINERAL CREEK
SEC. 38R
HENRY COUNTY
STATION 477+86

DESIGNED	
CHECKED	J.M.
DRAWN	
CHECKED	GM

EXAMINED May 5 1971
PASSED
APPROVED

Rev. 2 27 75 STD. 2113H.
Rev. 4 1 75

FILE NAME = c:\pw_work\pwidot\cushmanbw\d0169166\D208809-sht-details.dgn	USER NAME = cushmanbw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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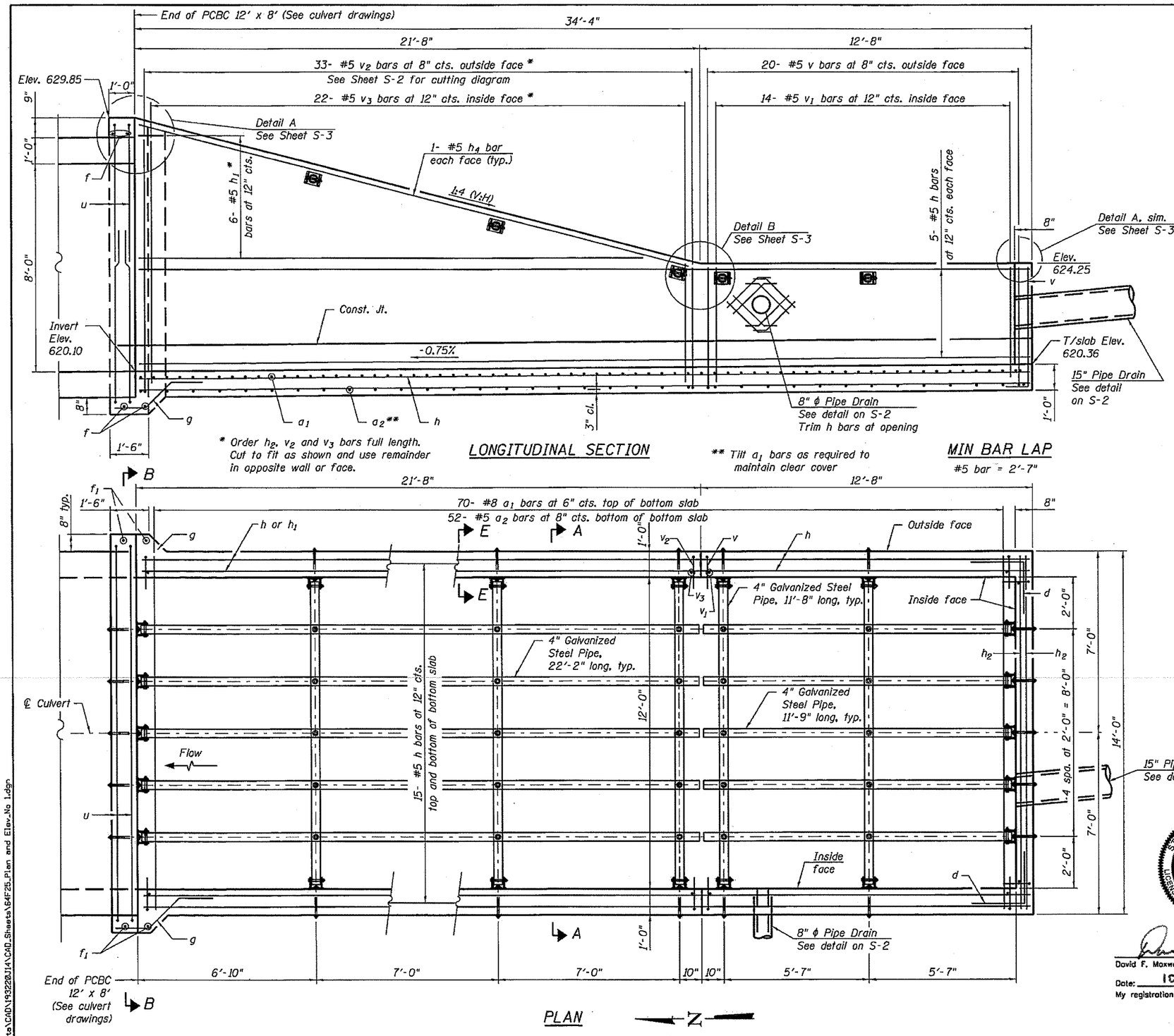
	PLOT DATE = Fri Oct 19 13:01:48 2012	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 64F25				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. All exposed concrete egdes shall be chamfered $\frac{3}{4}$" unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Drop Box, No.1 shall include the Concrete Structures, Reinforcement Bars, earth excavation where required, backfilling and necessary grading to fit the structure as shown, or to the slope.
5. The contract unit price "Foot" for Traversable Pipe Grates shall include the steel pipe grate System, steel plates, bolts, nuts and washers.
6. Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B. Schedule 40 & shall be galvanized conforming to A.S.T.M. A-120.
7. Steel plates shall conform to AASHTO M-183 & shall be galvanized conforming to AASHTO M-111.
8. Bolts, nuts, & washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.
9. Contractor shall field verify galvanized pipe length.
10. The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be $1\frac{1}{2}$" unless noted otherwise.
11. Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.
12. This work shall be done according to the applicable portions of 501, 503, 505, 508, and 540 of the Standard Specifications.
13. Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.
14. 8" & 15" pipe drains will be incorporated into the construction of the drop box wall. See Detail.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drop Box No. 1	Each	1
Traversable Pipe Grates	Foot	228

STATE OF ILLINOIS
DAVID F. MAXWELL
081-005455
ST. LOUIS, MO.
LICENSED STRUCTURAL ENGINEER

David F. Maxwell, S.E. Reg. No. 081-005455
Date: 10/11/12
My registration expires November 30, 2012

PLAN AND ELEVATION DROP BOX NO. 1 RT STATION 318+25

\\hrgernas\data\CAD\1932280\14\CAD\Sheets\64F25_Plan and Elev_No 1.dgn

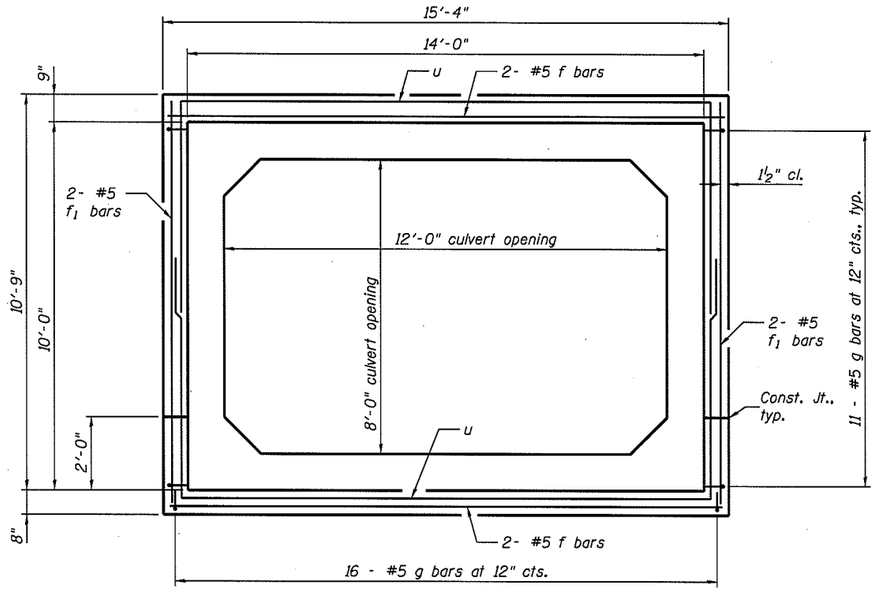
HRGreen.com
Illinois Professional Design Firm
184-001322
HRGreen

USER NAME = STLCO_design-consultant	DESIGNED - KJB	REVISED -
	CHECKED - DFM	REVISED -
PLOT SCALE = NTS	DRAWN - KJB	REVISED -
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -

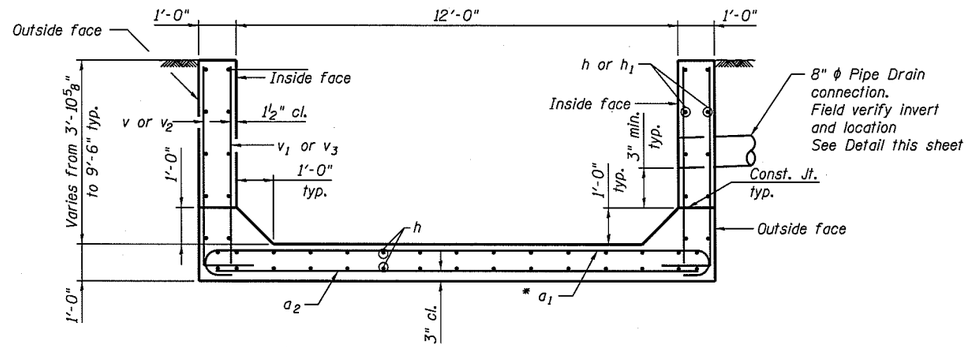
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
DROP BOX NO. 1
SHEET NO. S-1 OF S-3 SHEETS

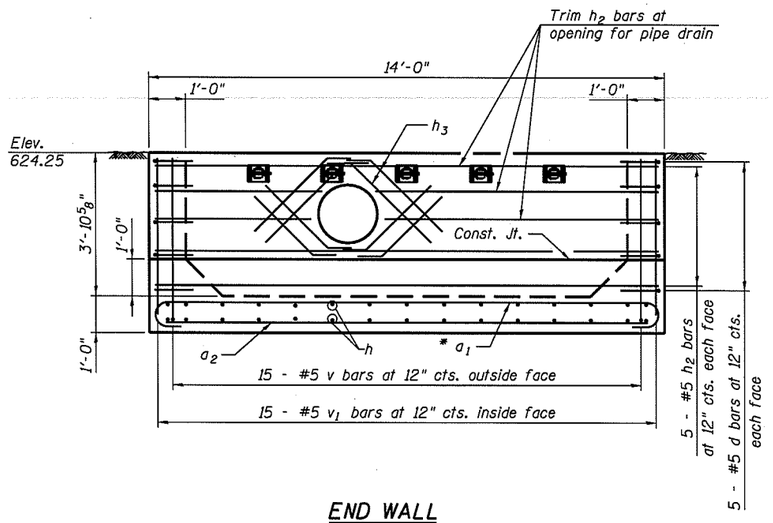
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T&3)BR-1	HENRY	210	63
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			



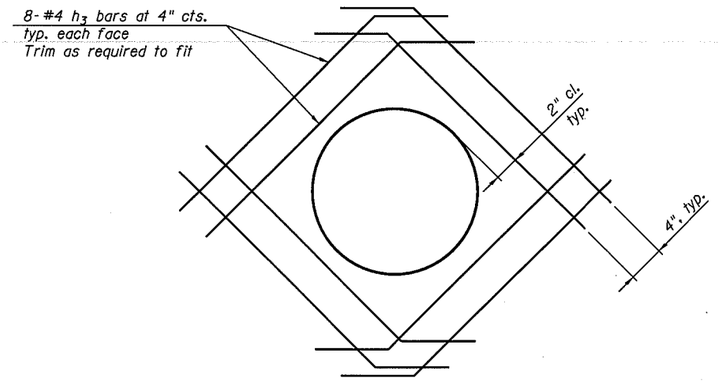
SECTION B-B
HEADWALL



SECTION A-A



END WALL

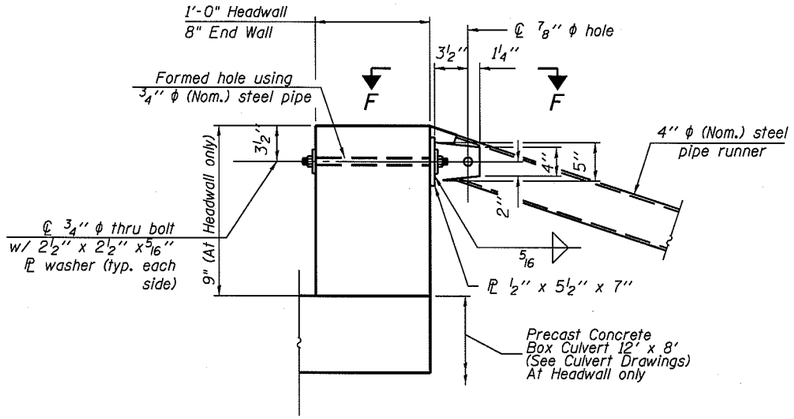


DETAIL FOR PIPE DRAIN
(Maximum 15" ϕ)

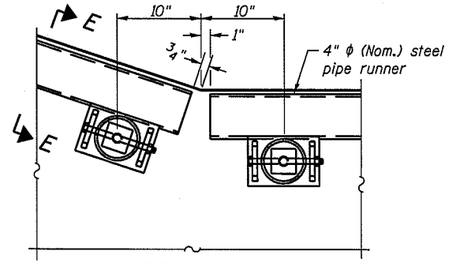
* Tilt a_1 bars as required to maintain clear cover

\\hrgcornas\data\CAD\193228\141\CAD_Sheets\64F25_Details_No 1-1.dgn

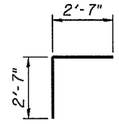
HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = STLCO_design-consultant	DESIGNED - KJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS 1 DROP BOX NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - DFM	REVISED -			226	(3T&3)BR-1	HENRY	210	64
	PLOT SCALE = NTS	DRAWN - KJB	REVISED -					CONTRACT NO. 64F25		
	PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -		SHEET NO. S-2 OF S-3 SHEETS			ILLINOIS FED. AID PROJECT		



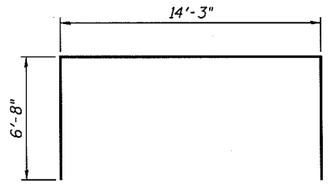
DETAIL A



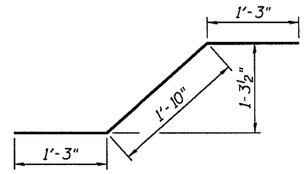
DETAIL B



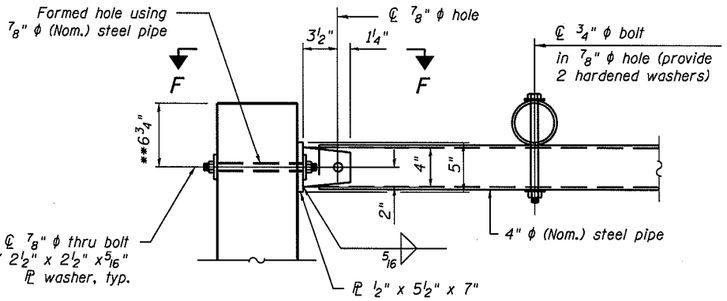
BAR d



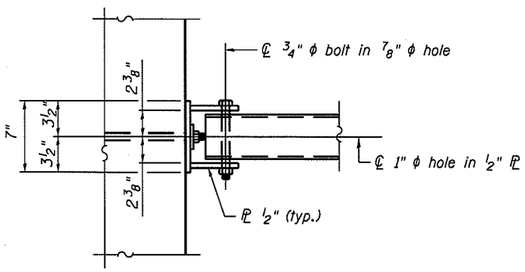
BAR u



BAR q

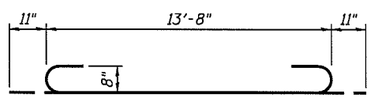


SECTION E-E

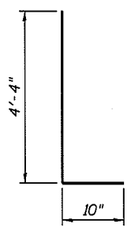


VIEW F-F

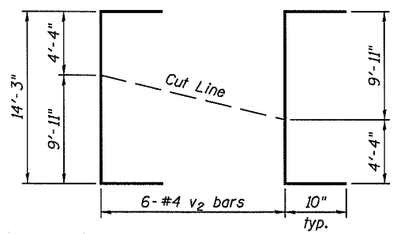
** Measured perpendicular to top of side wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the drop box.



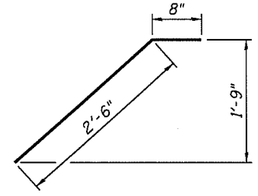
BAR a_1



BAR v



BAR v_2 CUTTING DIAGRAM



BAR h_3

BILL OF MATERIAL
(For Information Only)

Bar	No.	Size	Length	Shape
a_1	70	#8	15'-6"	
a_2	52	#5	13'-8"	
d	10	#5	5'-2"	
f	4	#6	15'-1"	
f_1	4	#5	11'-2"	
g	38	#5	4'-4"	
h	50	#5	34'-0"	
h_1	12	#5	21'-4"	
h_2	10	#5	13'-8"	
h_3	32	#4	3'-2"	
h_4	4	#5	22'-0"	
u	4	#5	27'-7"	
v	55	#5	5'-2"	
v_1	43	#5	4'-4"	
v_2	33	#5	15'-11"	
v_3	44	#5	14'-3"	
* Concrete Structures		Cu. Yd.	36.5	
* Reinforcement Bars		Pound	7,800	
** 4" Galv. Steel Pipe		5 @	11'-9"	
		5 @	22'-2"	
		5 @	11'-8"	
** 3/4" Galv. Steel Bolts		Each	25	
** Side Assembly		Each	20	

*Included in Drop Box, No. 1

**Included in Traversable Pipe Grates with all hardware and steel for Assemblies

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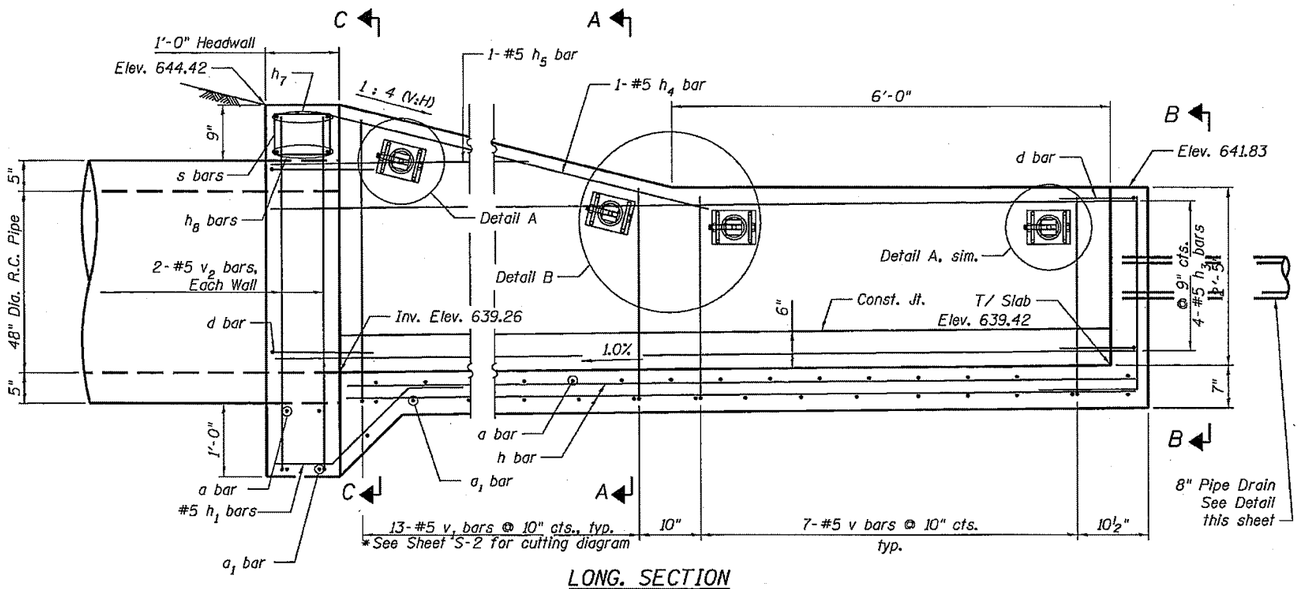
	CHECKED - DFM	REVISED -	
PLOT SCALE = NTS	DRAWN - KJB	REVISED -	
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

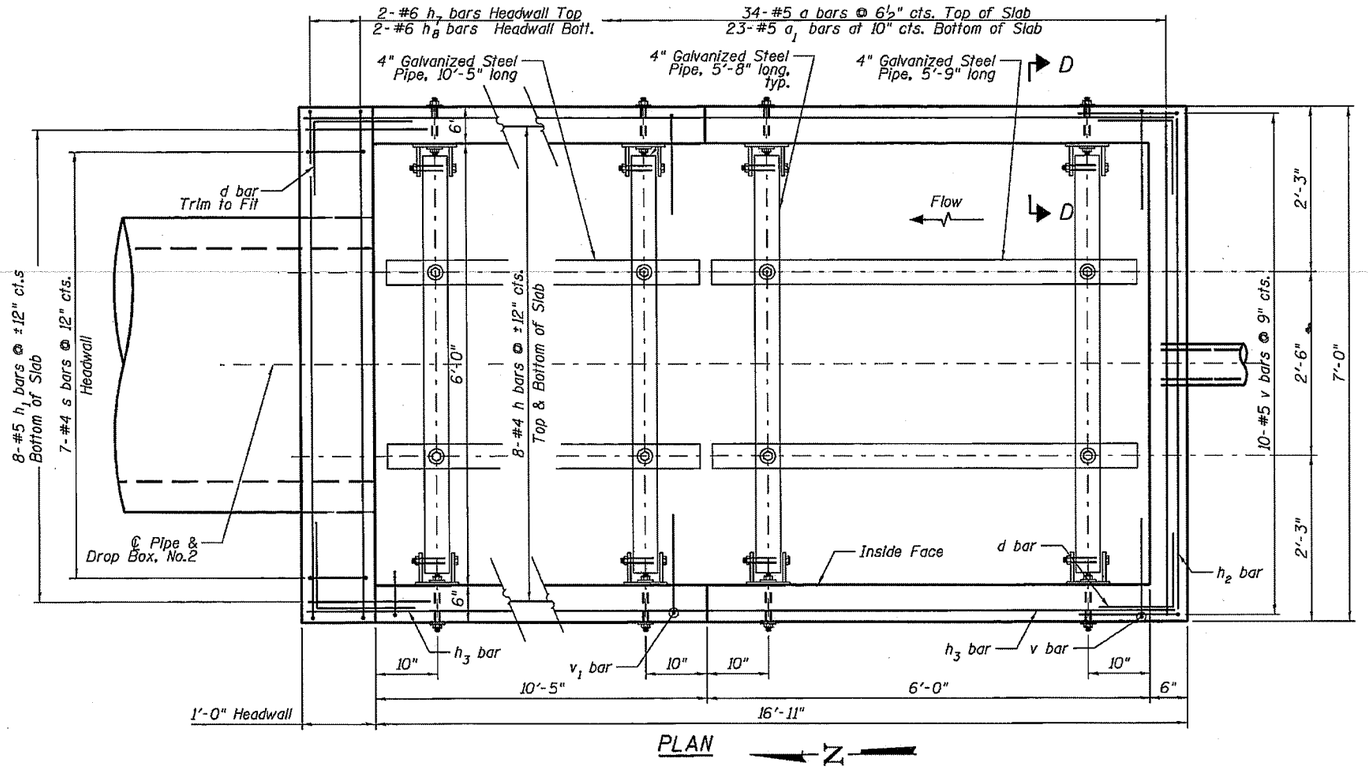
DETAILS 2
DROP BOX NO. 1
SHEET NO. S-3 OF S-3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T&3)BR-1	HENRY	210	105
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



LONG. SECTION

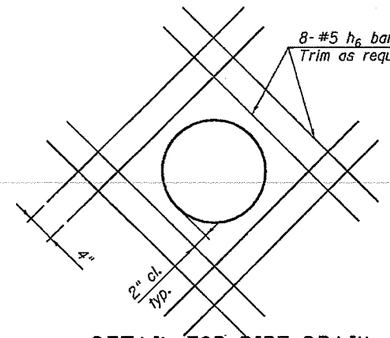
* Order v_1 bars full length. Cut to fit as shown and use remainder of bars in opposite wall.



PLAN

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. All exposed concrete egdes shall be chamfered 3/4" unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Drop Box, No. 2 shall include the Concrete Structures, Reinforcement Bars, earth excavation where required, backfilling and necessary grading to fit the structure as shown, or to the slope.
5. The contract unit price "Foot" for Traversable Pipe Grates shall include the steel pipe grate System, steel plates, bolts, nuts and washers.
6. Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40 & shall be galvanized conforming to A.S.T.M. A-120.
7. Steel plates shall conform to AASHTO M-183 & shall be galvanized conforming to AASHTO M-111.
8. Bolts, nuts, & washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.
9. Contractor shall field verify galvanized pipe length.
10. The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.
11. Bolts shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.
12. This work shall be done according to the applicable portions of 501, 503, 505, 508, and 540 of the Standard Specifications.
13. Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.
14. 8" pipe drain will be incorporated into the construction of the drop box wall. See Detail.



DETAIL FOR PIPE DRAIN

(Maximum 15" ϕ)

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drop Box, No. 2	Each	1
Traversable Pipe Grates	Foot	55

STATE OF ILLINOIS
DAVID F. MAXWELL
081-005455
ST. LOUIS, MO.
LICENSED STRUCTURAL ENGINEER

David F. Maxwell, S.E. Reg. No. 081-005455

Date: 10/11/12

My registration expires November 30, 2012

PLAN AND ELEVATION DROP BOX NO. 2 RT STATION 339+15

\\hrgcrnas\data\CAD\193220J14\CAD_Sheets\64F25_Plan and Elev_No 2.dgn

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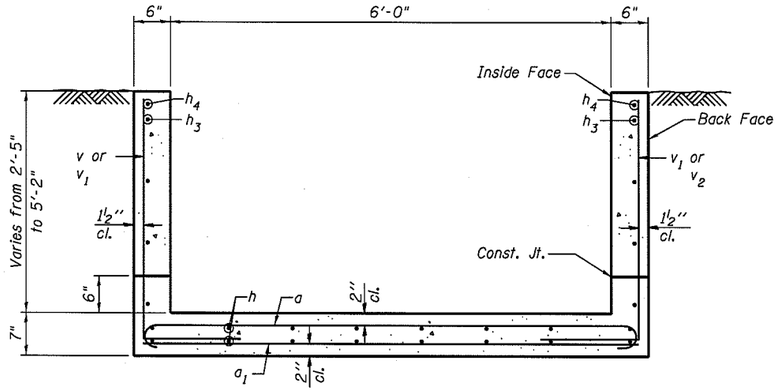
USER NAME = STLCO_design-consultant	DESIGNED - KJB	REVISED -	
	CHECKED - DFM	REVISED -	
PLOT SCALE = NTS	DRAWN - KJB	REVISED -	
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

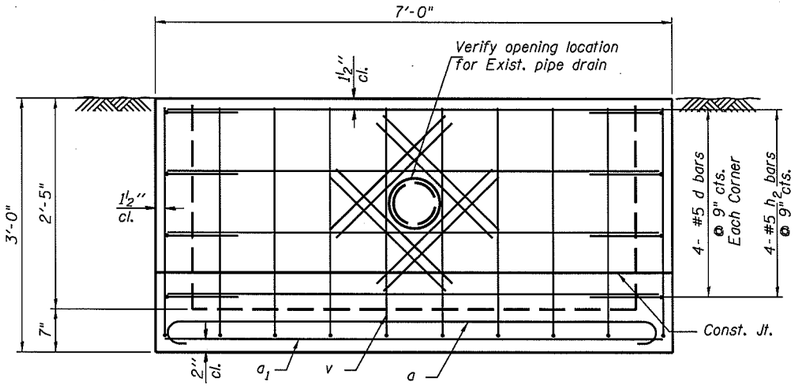
PLAN AND ELEVATION
DROP BOX NO. 2

SHEET NO. S-1 OF S-2 SHEETS

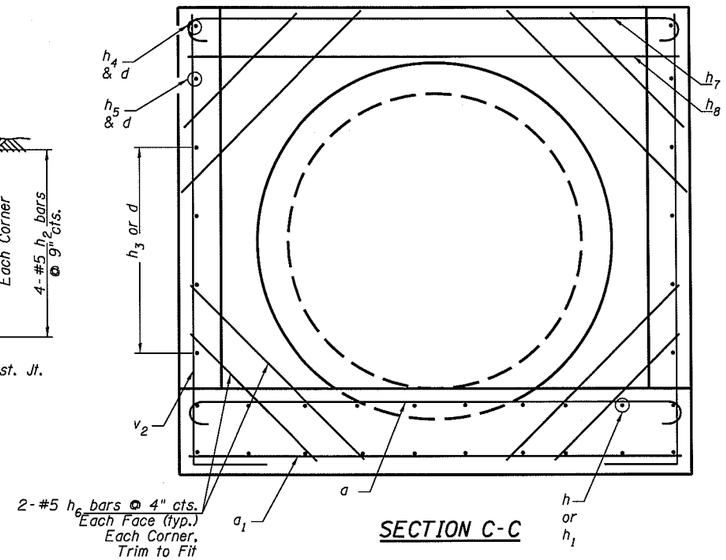
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T & 3) BR-1	HENRY	210	66
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



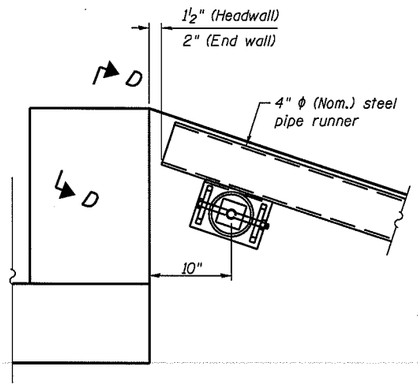
SECTION A-A



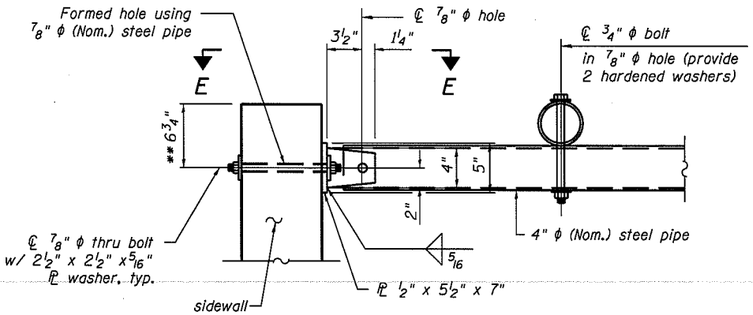
VIEW B-B



SECTION C-C

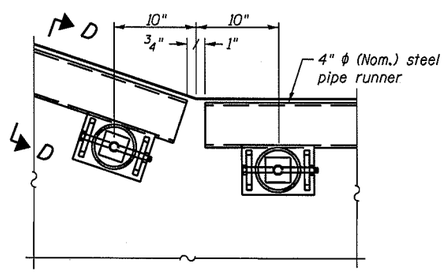


DETAIL A

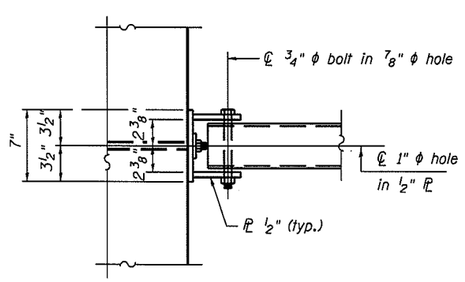


SECTION D-D

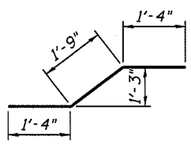
** Measured perpendicular to top of sidewall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert extension with drop box.



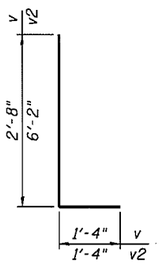
DETAIL B



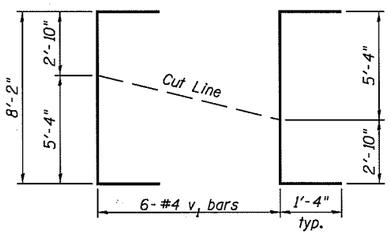
VIEW E-E



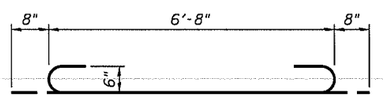
BAR h_1



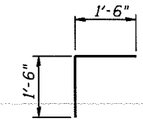
BAR v and v_2



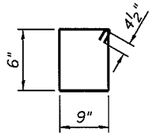
BAR v_1 CUTTING DIAGRAM



BAR a and h_7



BAR d



BAR s

BILL OF MATERIAL

(For Information Only)

Bar	No.	Size	Length	Shape
a	34	#5	8'-0"	
a_1	23	#5	6'-8"	
d	20	#5	3'-0"	
h	16	#4	16'-7"	
h_1	8	#5	4'-5"	
h_2	4	#5	6'-8"	
h_3	8	#5	17'-7"	
h_4	2	#5	13'-0"	
h_5	2	#5	5'-11"	
h_6	24	#5	4'-6"	
h_7	2	#6	8'-0"	
h_8	2	#6	6'-8"	
s	7	#4	3'-3"	
v	24	#5	4'-0"	
v_1	13	#5	10'-10"	
v_2	4	#5	7'-6"	

	DESCRIPTION	UNIT	QTY.
*	Concrete Structures	Cu. Yd.	6.1
*	Reinforcement Bars	Pound	1,380
**	4" Galv. Steel Pipe	2 @	5'-9"
		4 @	5'-8"
		2 @	10'-5"
**	$\frac{3}{4}$" Galv. Steel Bolts	Each	8
**	Side Assembly	Each	8

*Included in Drop Box, No. 2

** Included in Traversable Pipe Grates with all hardware and steel for Assemblies

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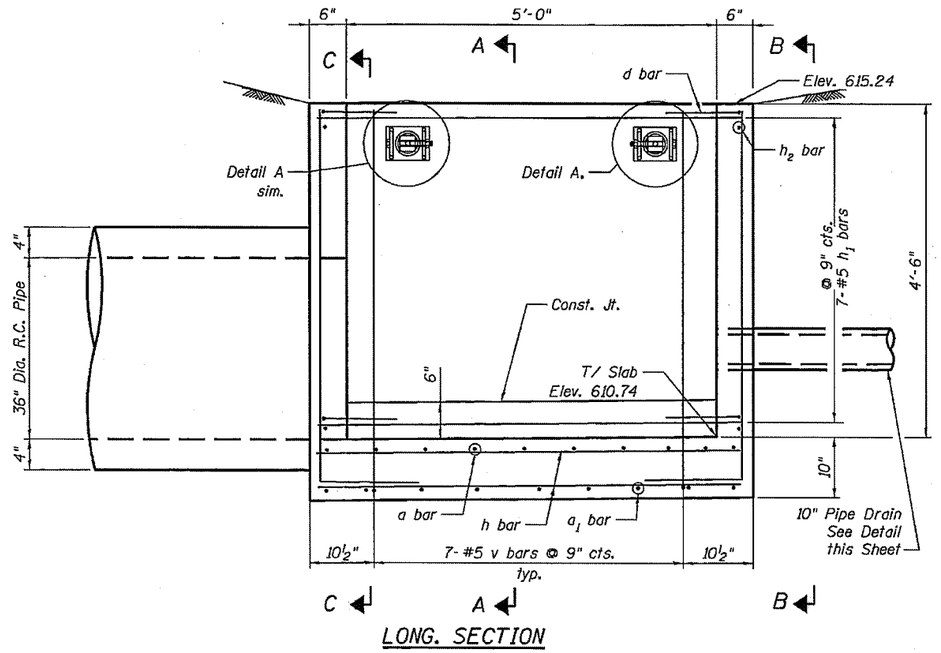
	CHECKED - DFM	REVISED -	
PLOT SCALE = NTS	DRAWN - KJB	REVISED -	
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -	

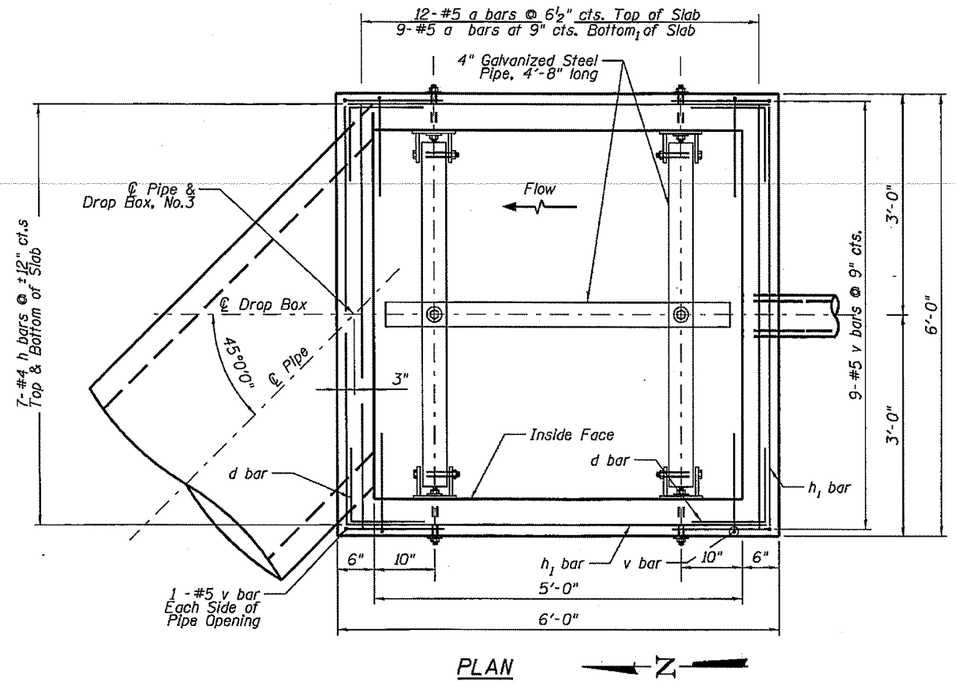
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
DROP BOX NO. 2
SHEET NO. S-2 OF S-2 SHEETS

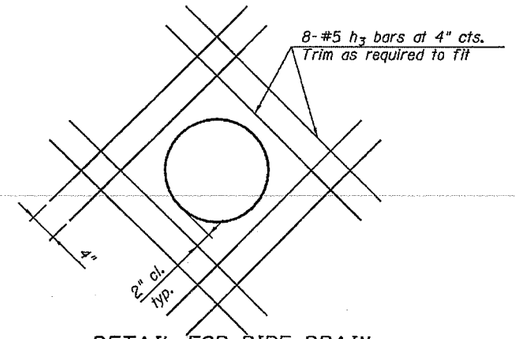
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T & 3) BR-1	HENRY	210	67
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			



LONG. SECTION



PLAN



DETAIL FOR PIPE DRAIN

(Maximum 15" ϕ)

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. All exposed concrete egdes shall be chamfered 3/4" unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Drop Box, No. 3 shall include the Concrete Structures, Reinforcement Bars, earth excavation where required, backfilling and necessary grading to fit the structure as shown, or to the slope.
5. The contract unit price "Foot" for Traversable Pipe Grates shall include the steel pipe grate System, steel plates, bolts, nuts and washers.
6. Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40 & shall be galvanized conforming to A.S.T.M. A-120.
7. Steel plates shall conform to AASHTO M-183 & shall be galvanized conforming to AASHTO M-111.
8. Bolts, nuts, & washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.
9. Contractor shall field verify galvanized pipe length.
10. The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.
11. Bolts shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.
12. This work shall be done according to the applicable portions of 501, 503, 505, 508, and 540 of the Standard Specifications.
13. Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.
14. 10" pipe drain will be incorporated into the construction of the drop box wall. See Detail.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drop Box, No. 3	Each	1
Traversable Pipe Grates	Foot	14

STATE OF ILLINOIS
DAVID F. MAXWELL
081-005455
ST. LOUIS, MO.
LICENSED STRUCTURAL ENGINEER

David F. Maxwell, S.E. Reg. No. 081-005455

Date: 10/11/12

My registration expires November 30, 2012

PLAN AND ELEVATION DROP BOX NO. 3 RT STATION 397+32

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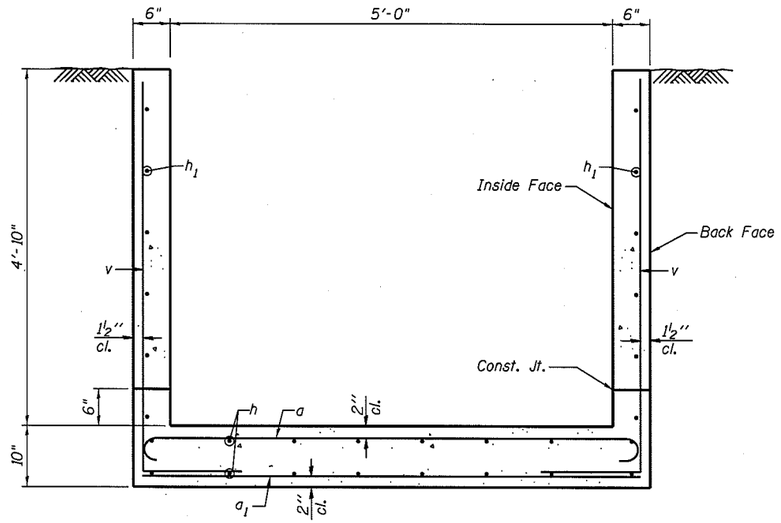
	CHECKED - DFM	REVISED -	
PLOT SCALE = NTS	DRAWN - KJB	REVISED -	
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

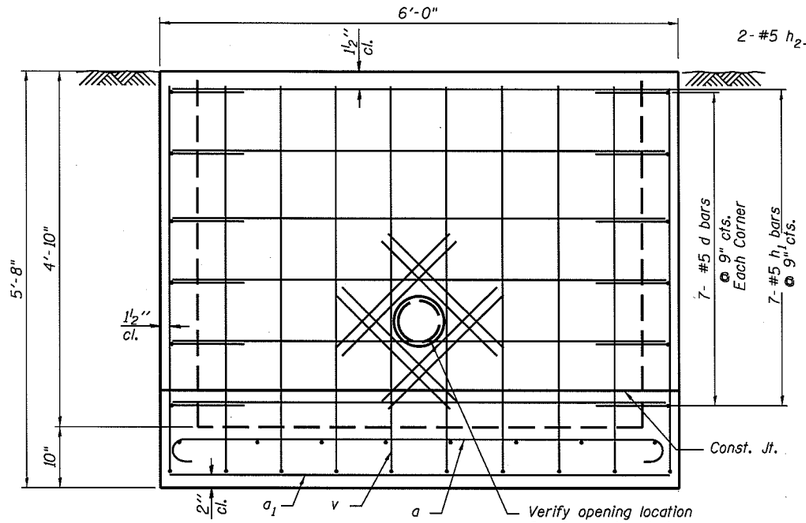
PLAN AND ELEVATION
DROP BOX NO. 3

SHEET NO. S-1 OF S-2 SHEETS

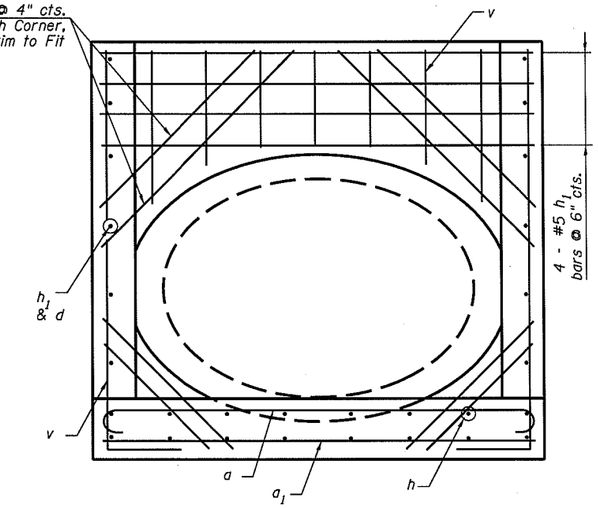
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T & 3) BR-1	HENRY	210	68
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



SECTION A-A

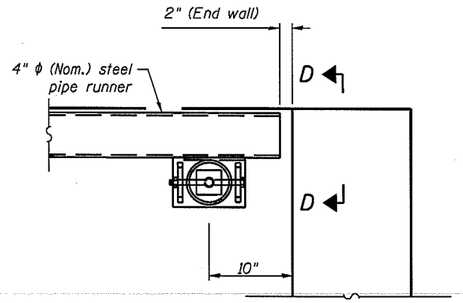


VIEW B-B

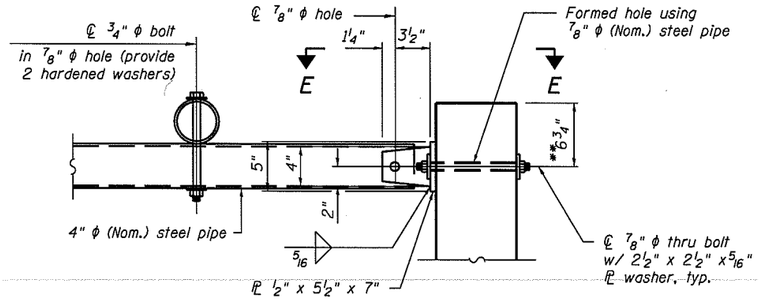


SECTION C-C

Trim a, h, v, and h_2 bars around pipe opening

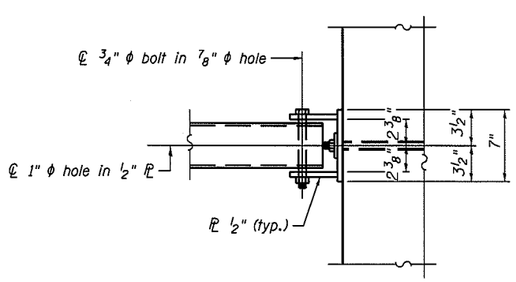


DETAIL A

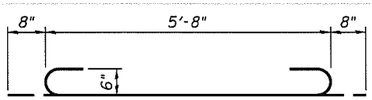


SECTION D-D

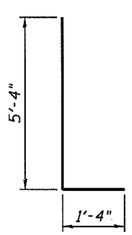
** Measured perpendicular to top of sidewall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert extension with drop box.



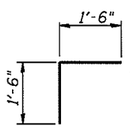
VIEW E-E



BAR a



BAR v



BAR d

BILL OF MATERIAL

(For Information Only)

Bar	No.	Size	Length	Shape
a	12	#5	7'-0"	
a_1	9	#5	5'-8"	
d	28	#5	3'-0"	
h	14	#4	5'-8"	
h_1	25	#5	5'-8"	
h_2	8	#5	3'-11"	
h_3	8	#5	3'-0"	
v	32	#5	6'-8"	

	DESCRIPTION	UNIT	QTY.
*	Concrete Structures	Cu. Yd.	2.8
*	Reinforcement Bars	Pound	710
**	4" Galv. Steel Pipe	3 @	4'-8"
**	¾" Galv. Steel Bolts	Each	2
**	Side Assembly	Each	4

*Included in Drop Box, No. 3

**Included in Traversable Pipe Grates with all hardware and steel for Assemblies

\\hrgernas\data\CAD\193228\J14\CAD_Sheets\64F25_Details_No 3.dgn

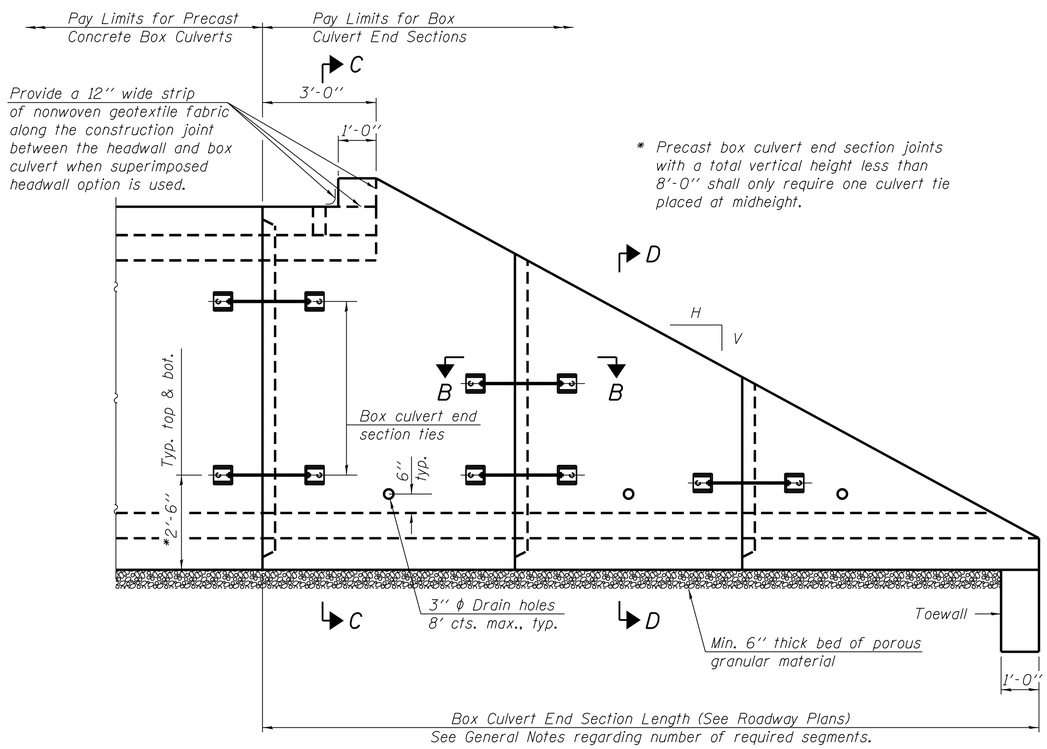
HRGreen.com
Illinois Professional Design Firm # 184-001322

USER NAME = STLCO_design-consultant	DESIGNED - KJB	REVISED -	
	CHECKED - DFM	REVISED -	
PLOT SCALE = NTS	DRAWN - KJB	REVISED -	
PLOT DATE = 10/11/2012	CHECKED - DFM	REVISED -	

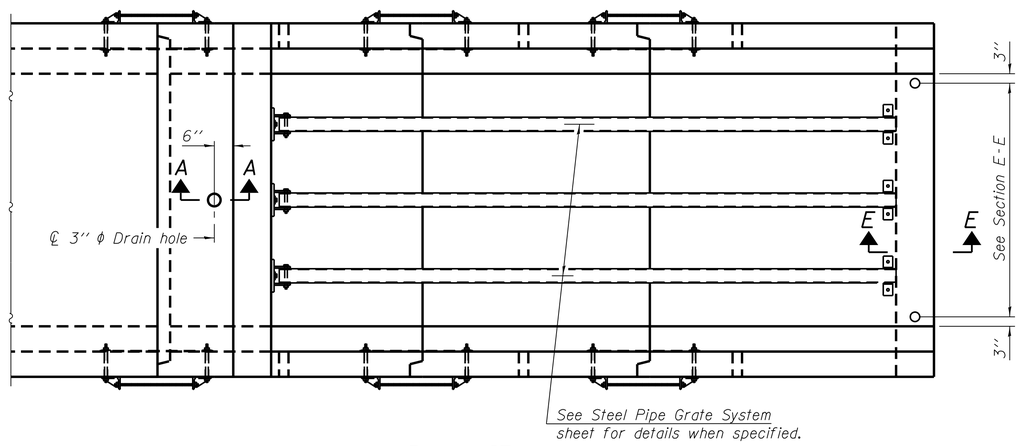
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
DROP BOX NO. 3
SHEET NO. S-2 OF S-2 SHEETS

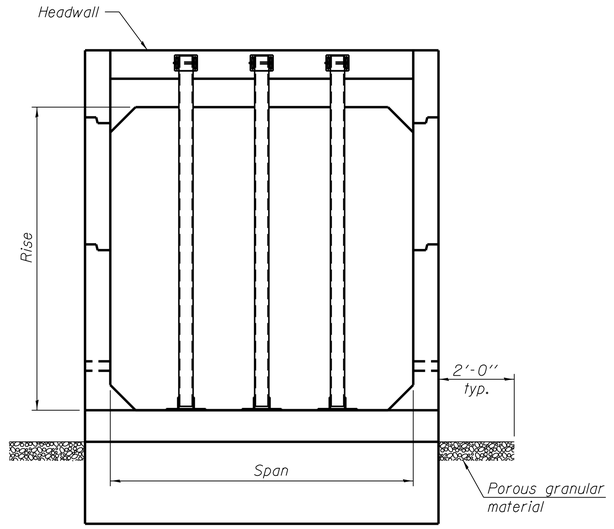
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	(3T & 3) BR-1	HENRY	210	69
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



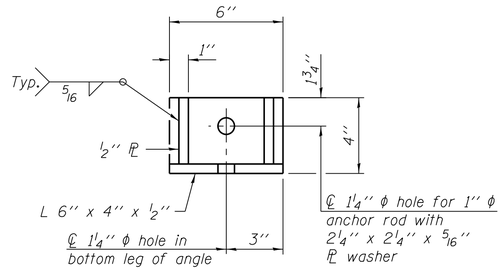
SIDE ELEVATION



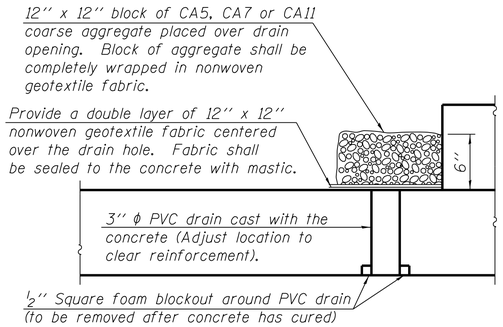
PLAN VIEW



END VIEW



RESTRAINT ANGLE DETAIL



SECTION A-A

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of AASHTO M 259 or M 273 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of sections shown in Side Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

The headwall may be cast monolithically with the box section or a superimposed headwall may be cast directly onto the box sections. Anchor rods shall conform to the requirements of Article 1006.09 of the Standard Specifications and the anchor rods and associated hardware for securing the superimposed headwall to the box section shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. Class SI concrete may be used for construction of superimposed headwall.

In lieu of using ferrule loop inserts, the Contractor may attach the superimposed headwall to the box section by epoxy grouting reinforcement bars according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving the minimum proof load stated with drilled hole depths that do not exceed 2/3 of the thickness of the slab of the box section.

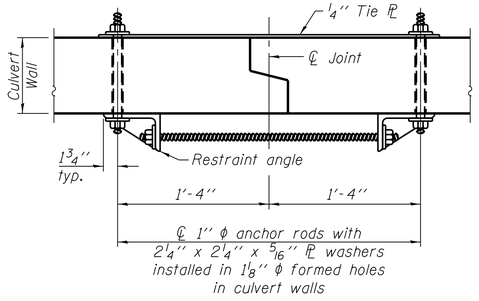
All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, headwall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

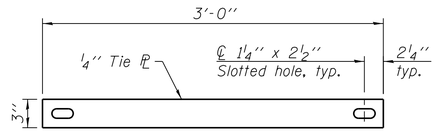
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..



SECTION B-B

(Showing culvert tie details)



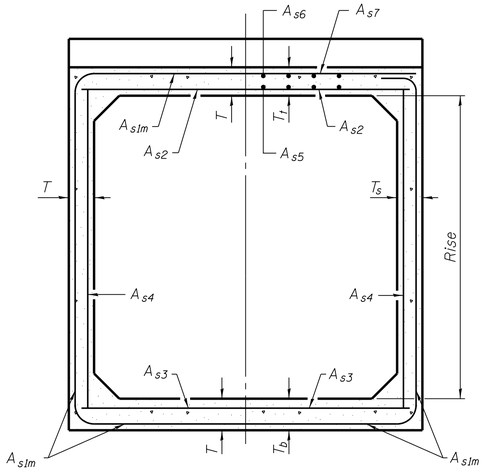
TIE PLATE DETAIL

10-19-12

(Sheet 1 of 3)

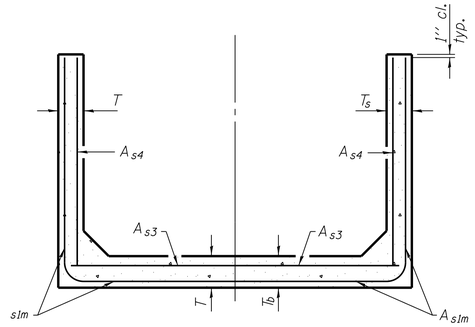
DESIGNED -	EXAMINED	DATE -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SINGLE CELL PRECAST BOX CULVERT END SECTIONS WITH PIPE GRATES**	
CHECKED -	ENGINEER OF BRIDGE DESIGN				
DRAWN -	PASSED			SHEET NO. 1 OF 3 SHEETS	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES				

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	70
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		



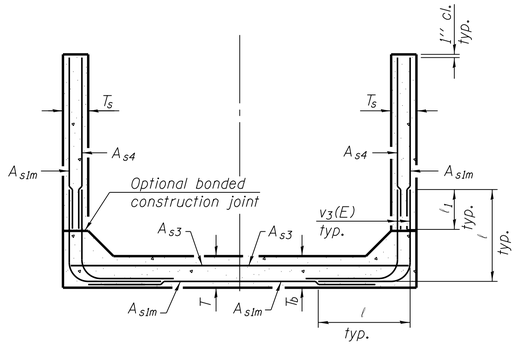
(AASHTO M 259 Details) (AASHTO M 273 Details)

SECTION C-C



(AASHTO M 259 Details) (AASHTO M 273 Details)

SECTION D-D



(AASHTO M 259 Details) (AASHTO M 273 Details)

ALTERNATE SECTION D-D

Rise (ft.) / T(in.), T_s (in.)	Reinforcing Steel A_{slm} (in.²/ft.)										
	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.15									
5	0.26	0.21	0.18								
6		0.26	0.23	0.22							
7		0.33	0.59	0.27	0.28						
8			0.43	0.39	0.36	0.34	0.40				
9				0.43	0.40	0.37	0.36	0.48			
10				0.47	0.44	0.41	0.38	0.42	0.56		
11			0.54		0.46		0.41		0.50	0.65	
12			0.58		0.50		0.45		0.46		0.75

(A_{slm} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

l_1 DIMENSION

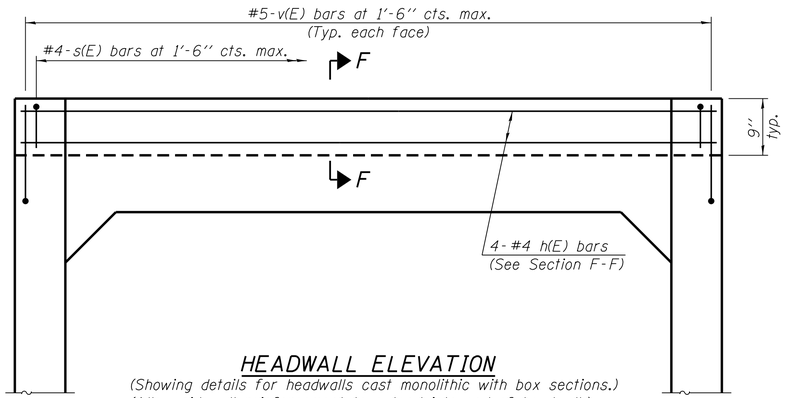
#3 bar = 2'-0''
#4 bar = 2'-8''
#5 bar = 3'-4''
#6 bar = 3'-11''

Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

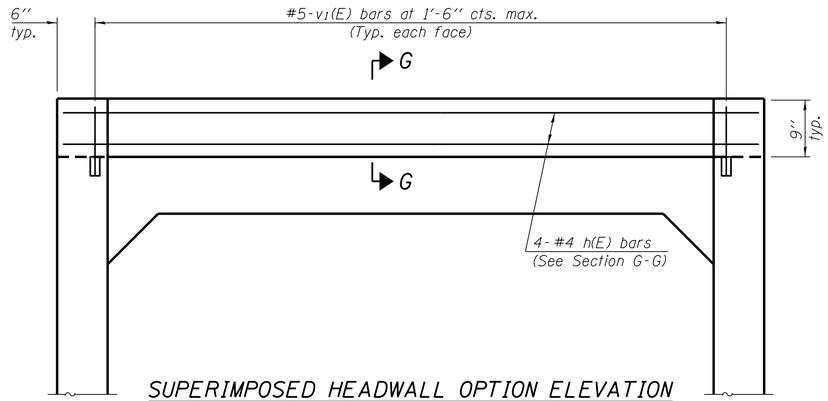
The size and spacing of the $v_3(E)$ bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to $1.10*(A_{slm})$. $v_3(E)$ bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

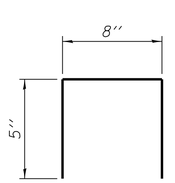


HEADWALL ELEVATION

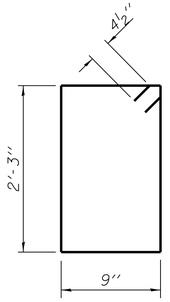
(Showing details for headwalls cast monolithic with box sections.)
(Allow sidewall reinforcement to extend into end of headwall.)



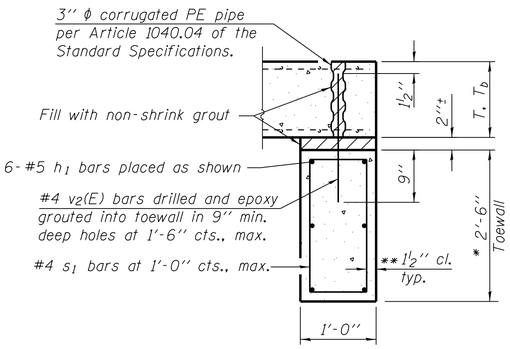
SUPERIMPOSED HEADWALL OPTION ELEVATION



BAR s(E)



BAR s_1



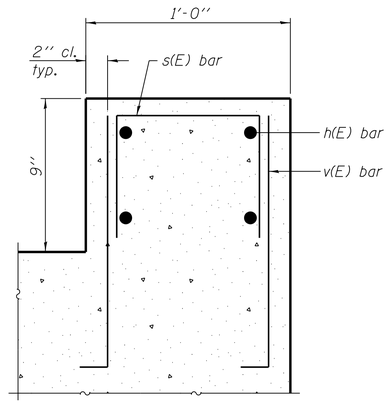
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

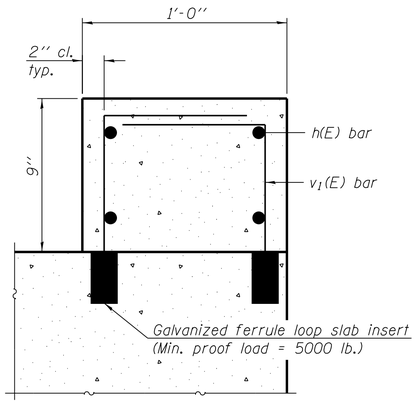
Perform excavation and construct toewall.
1. Backfill accordingly and place bedding for
2. precast box culvert end sections.
3. Set precast box culvert end sections in place.
4. Drill and epoxy grout reinforcement in toewall in accordance
5. with Section 584 of the Standard Specifications. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

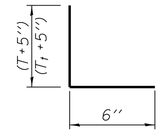
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3'' by increasing the thickness of the toewall.



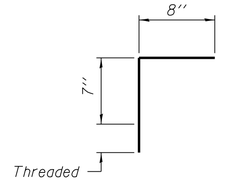
SECTION F-F



SECTION G-G



BAR v(E)

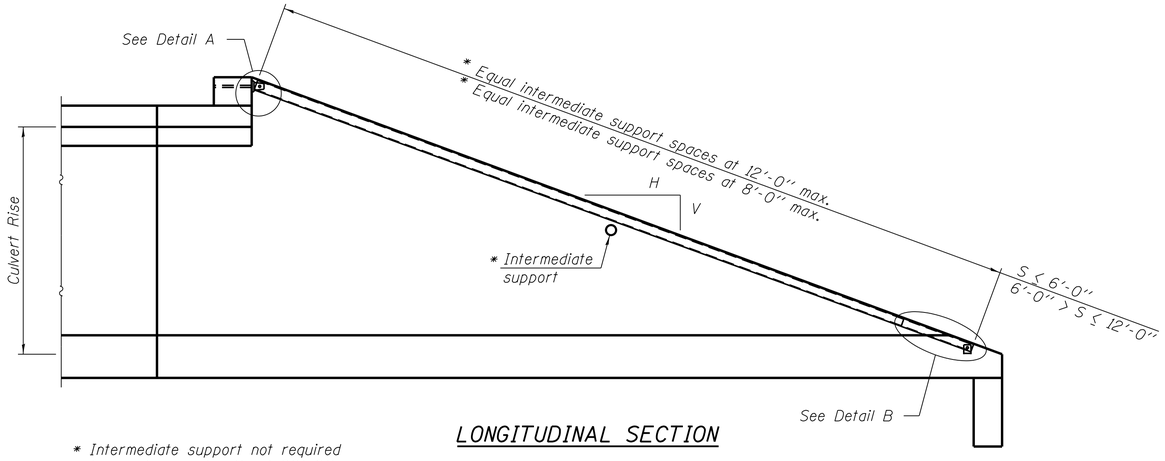


BAR v_1(E)

10-19-12

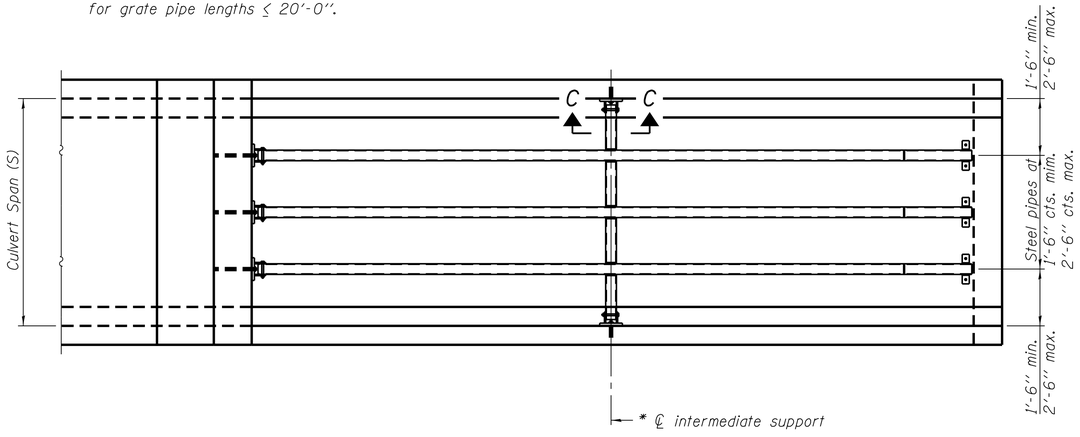
DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED -	ENGINEER OF BRIDGE DESIGN		
DRAWN -	PASSED		SINGLE CELL PRECAST BOX CULVERT END SECTIONS WITH PIPE GRATES
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 2 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	71
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			



LONGITUDINAL SECTION

* Intermediate support not required for grate pipe lengths ≤ 20'-0".



PLAN VIEW

GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

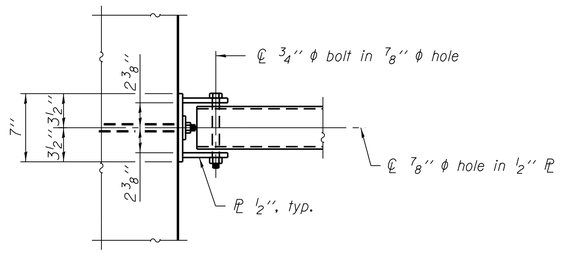
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

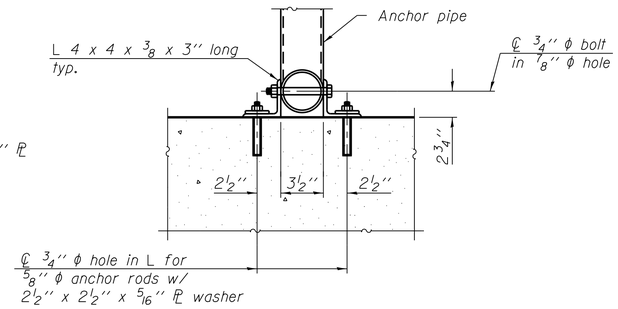
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

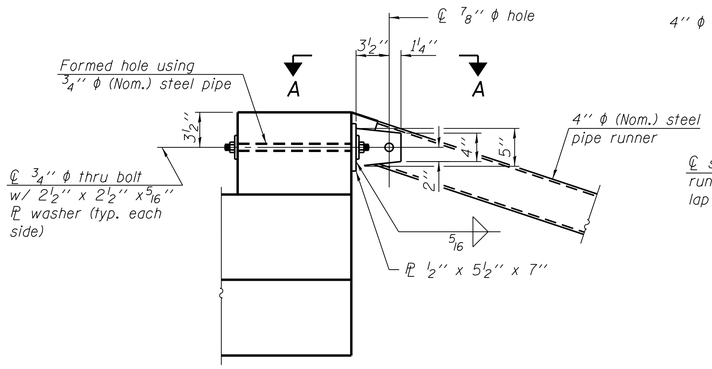
All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price for Transversable Pipe Grates.



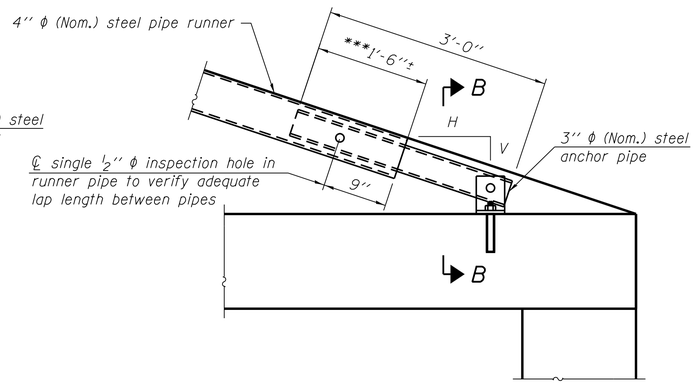
VIEW A-A



SECTION B-B

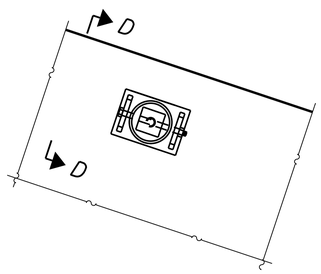


DETAIL A



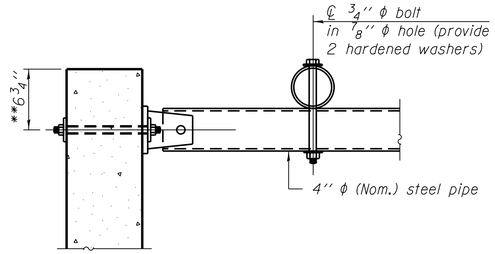
DETAIL B

*** The lap length between pipes may be adjusted in the field to accommodate construction tolerances but shall not be less than 9".



SECTION C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

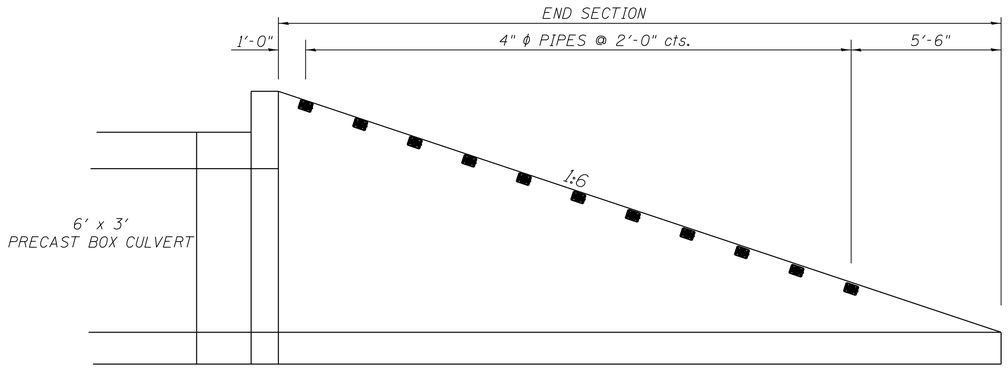
** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

10-19-12

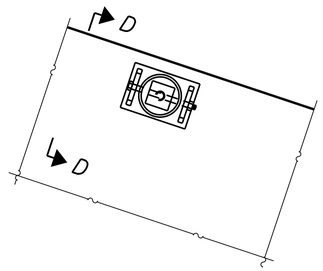
DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL PIPE GRATE SYSTEM	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF BRIDGE DESIGN				226	3T & 3BR-1	HENRY	210	72
DRAWN -	PASSED						CONTRACT NO. 64F25		
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 3 OF 3 SHEETS			ILLINOIS FED. AID PROJECT		

GRATING FOR BOX CULVERT END SECTION

STA. 380+50 6'x3' BOX CULVERT ON A 1:6 SLOPE



LONGITUDINAL SECTION



SECTION C-C

(See Detail A for dimensions and details not shown.)

GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

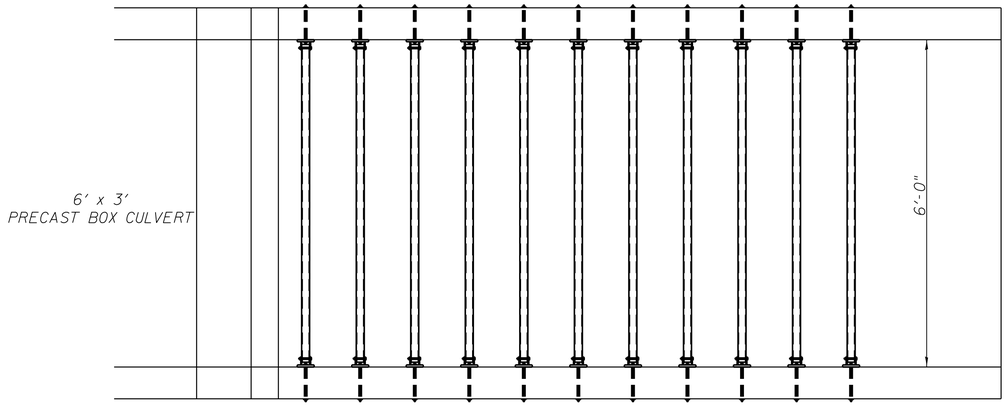
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

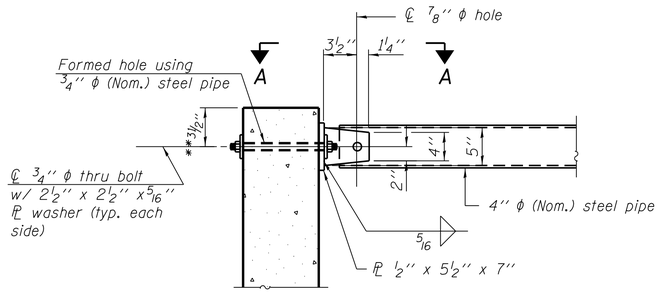
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price "Foot" for Trasversable Pipe Grates.

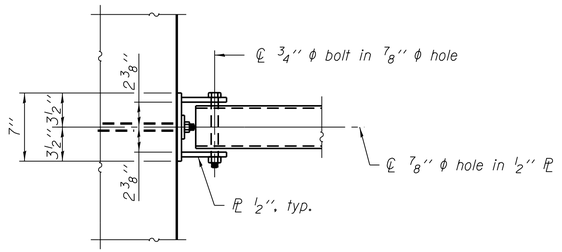


PLAN VIEW



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.



VIEW A-A

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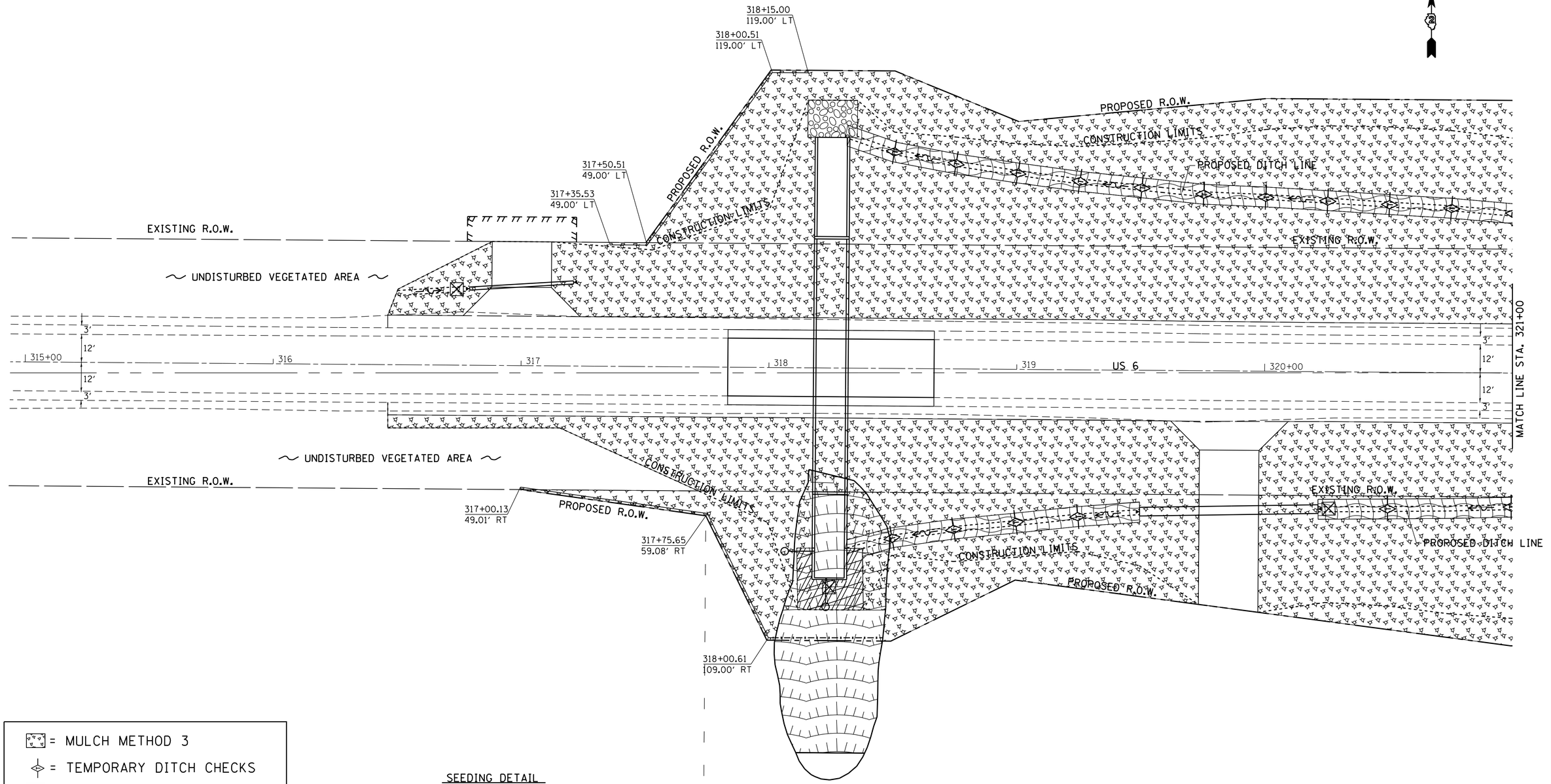
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRATING FOR BOX CULVERT END SECTION
STA. 380+50 6'x3' BOX CULVERT ON A 1:6 SLOPE

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	73
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



= MULCH METHOD 3

= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

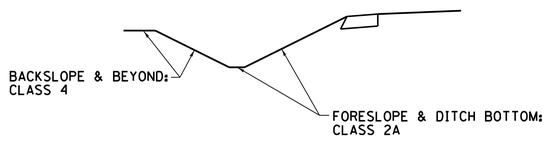
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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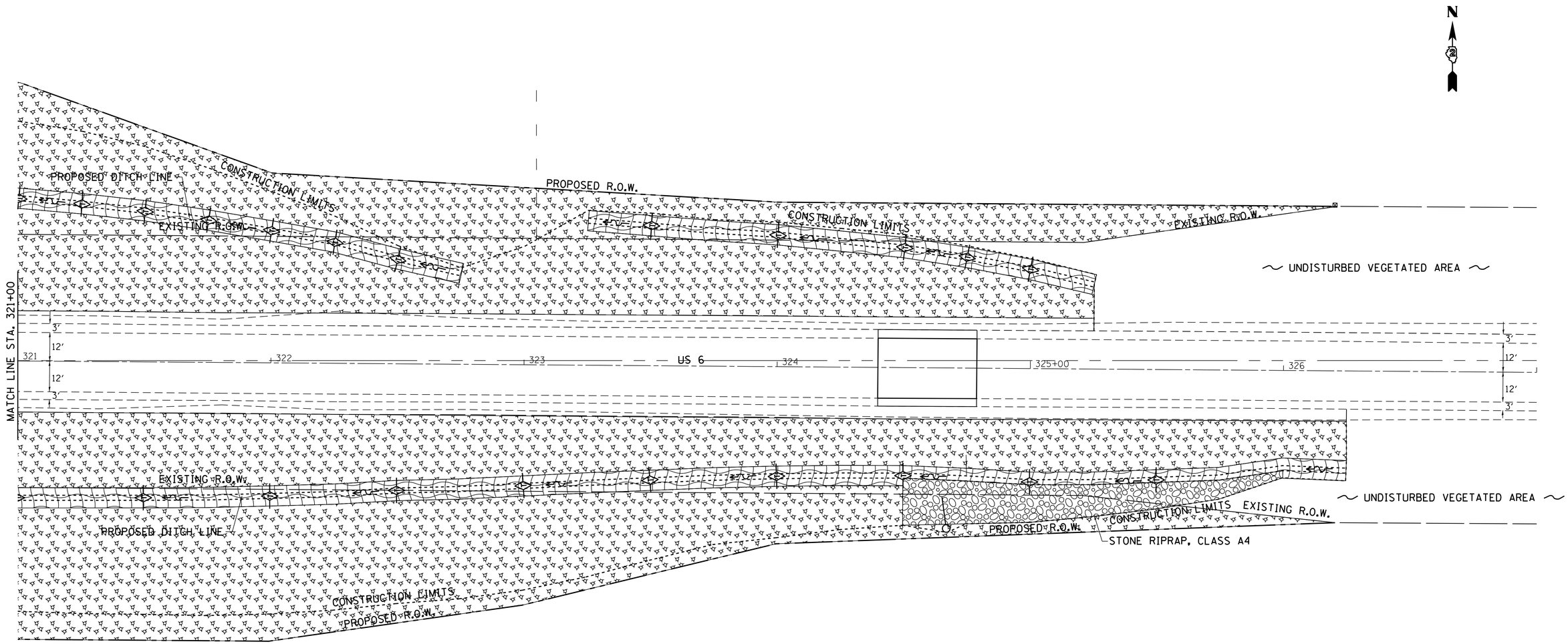
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



= MULCH METHOD 3

= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

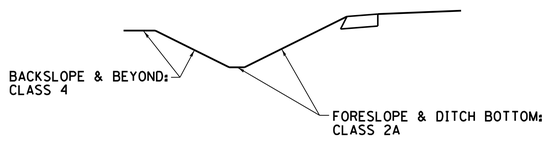
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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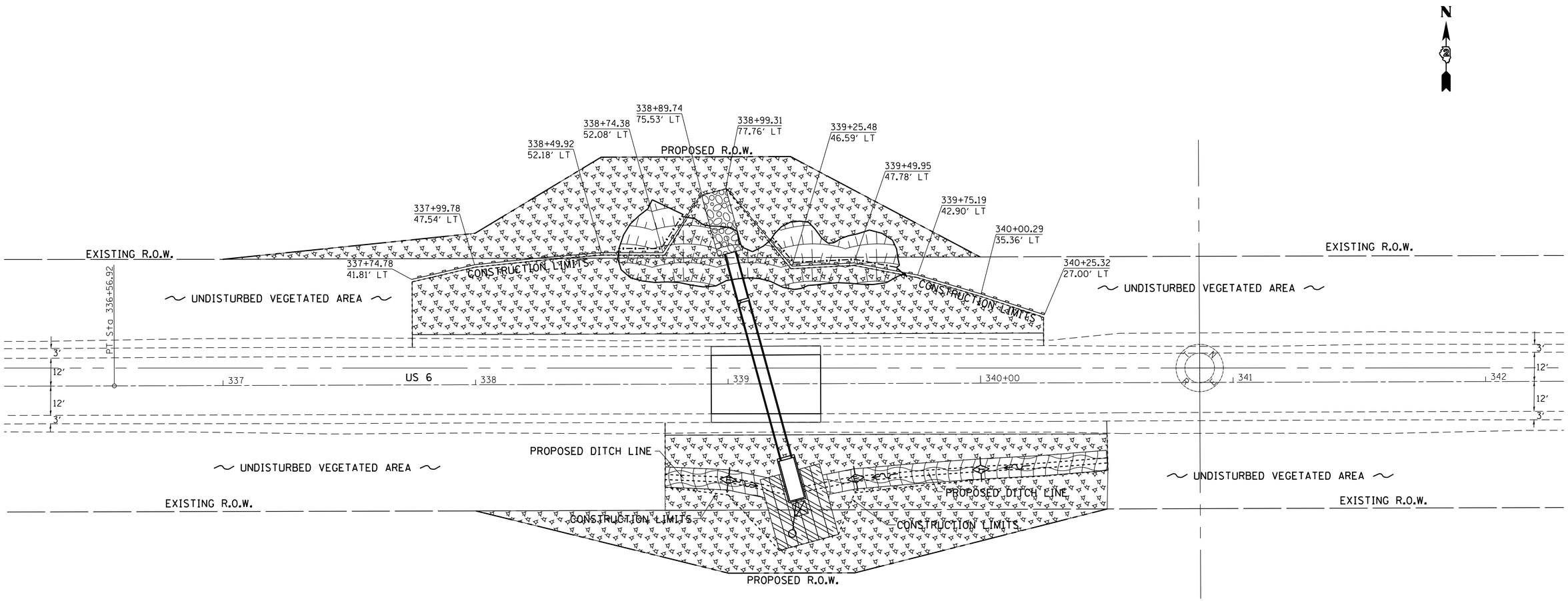
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



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= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

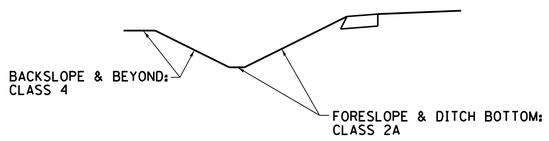
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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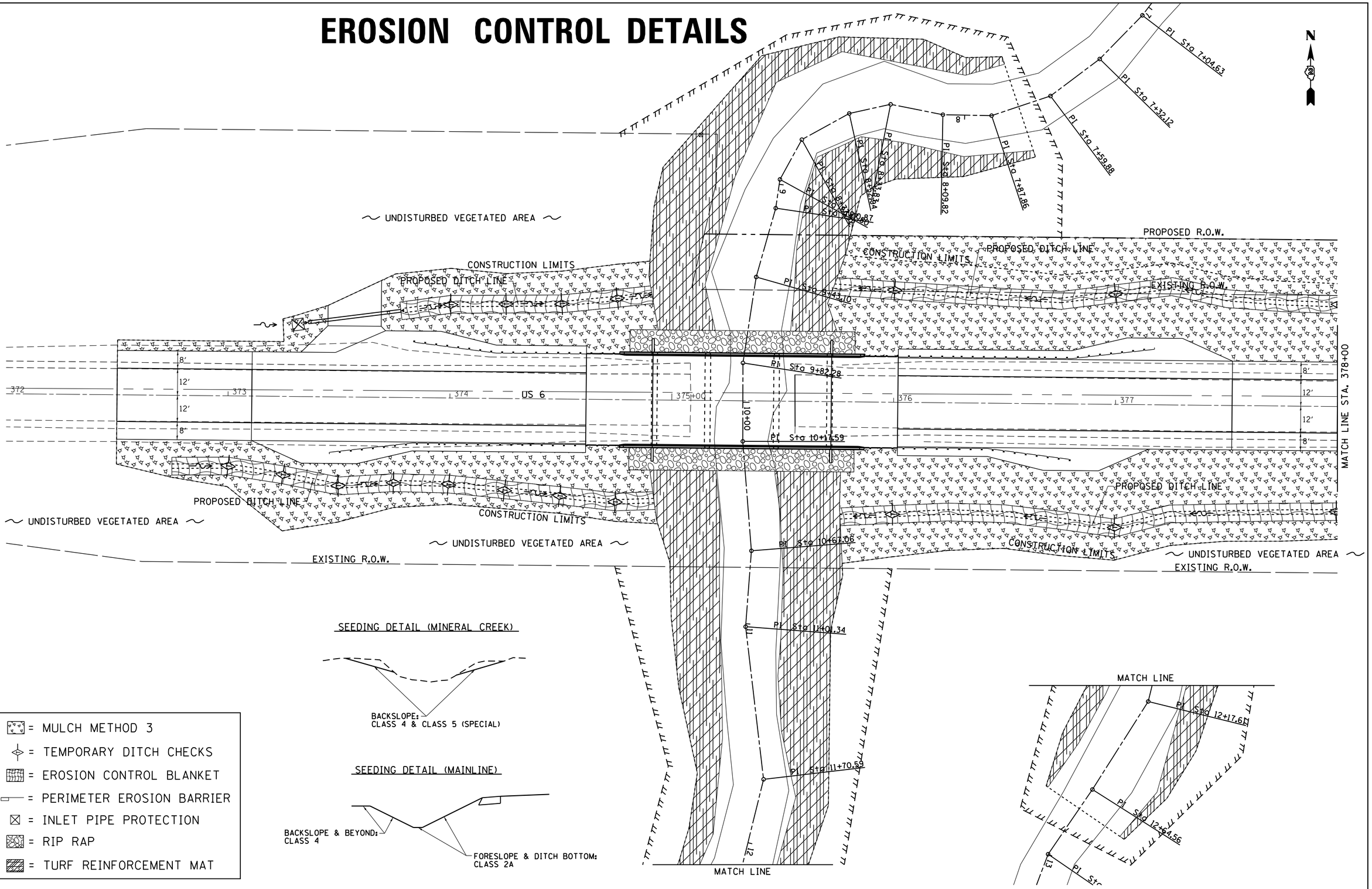
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

EROSION CONTROL DETAILS



SEEDING DETAIL (MINERAL CREEK)

SEEDING DETAIL (MAINLINE)

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= TEMPORARY DITCH CHECKS
= EROSION CONTROL BLANKET
= PERIMETER EROSION BARRIER
= INLET PIPE PROTECTION
= RIP RAP
= TURF REINFORCEMENT MAT

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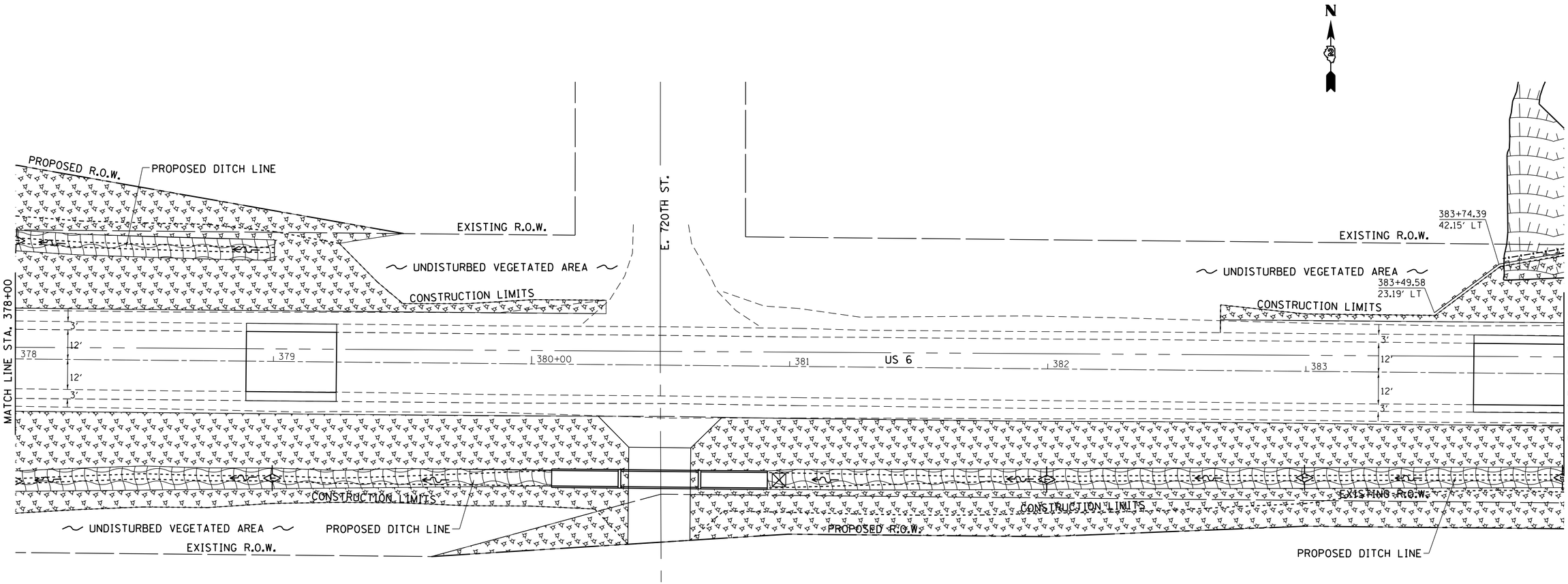
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	77
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



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= EROSION CONTROL BLANKET

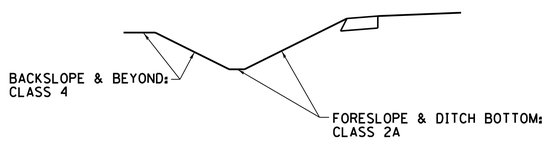
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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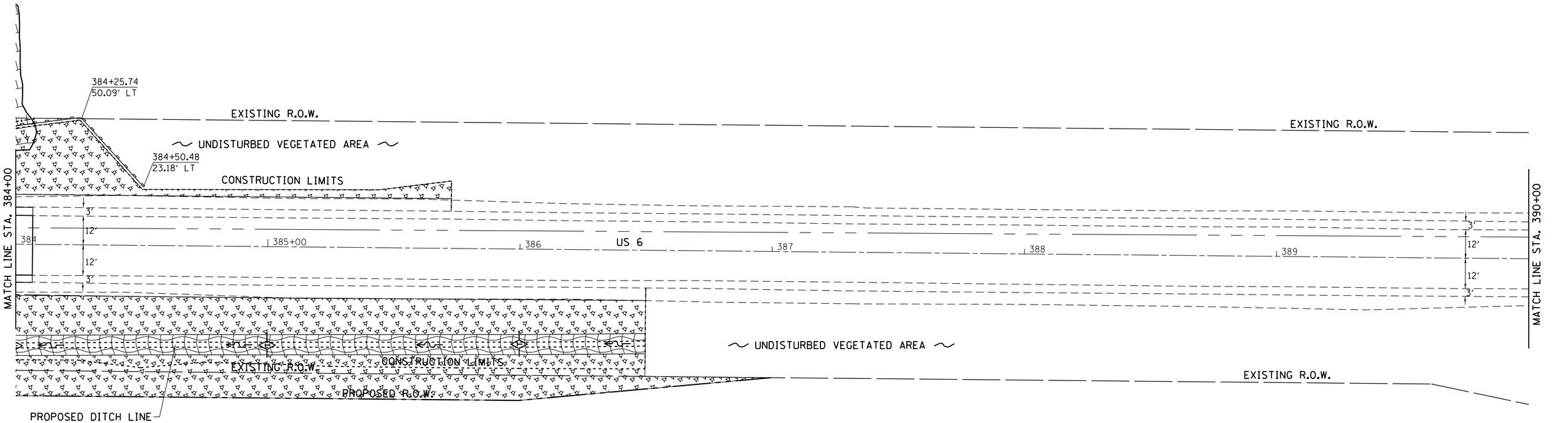
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



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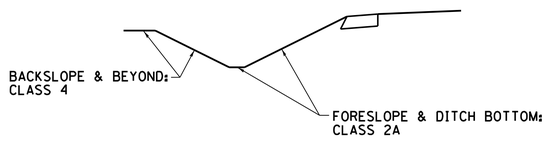
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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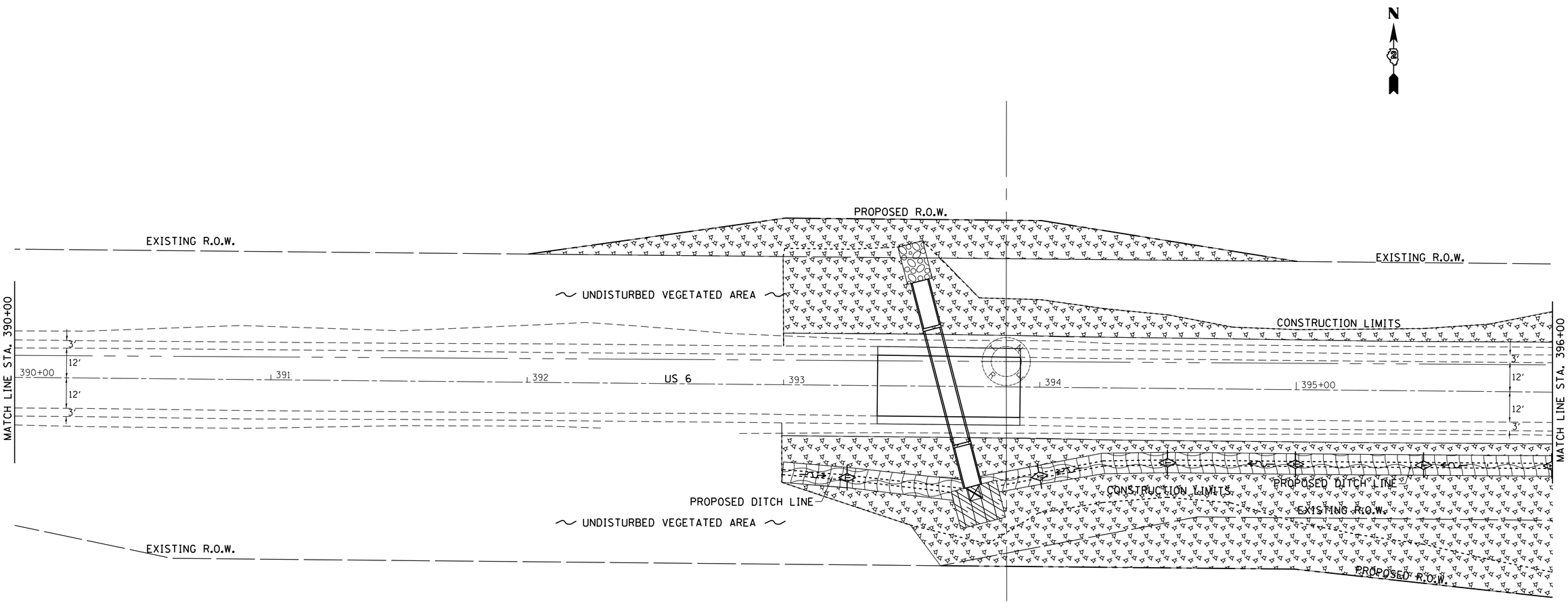
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



= MULCH METHOD 3

= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

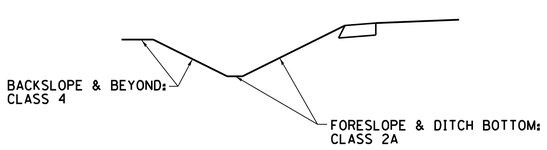
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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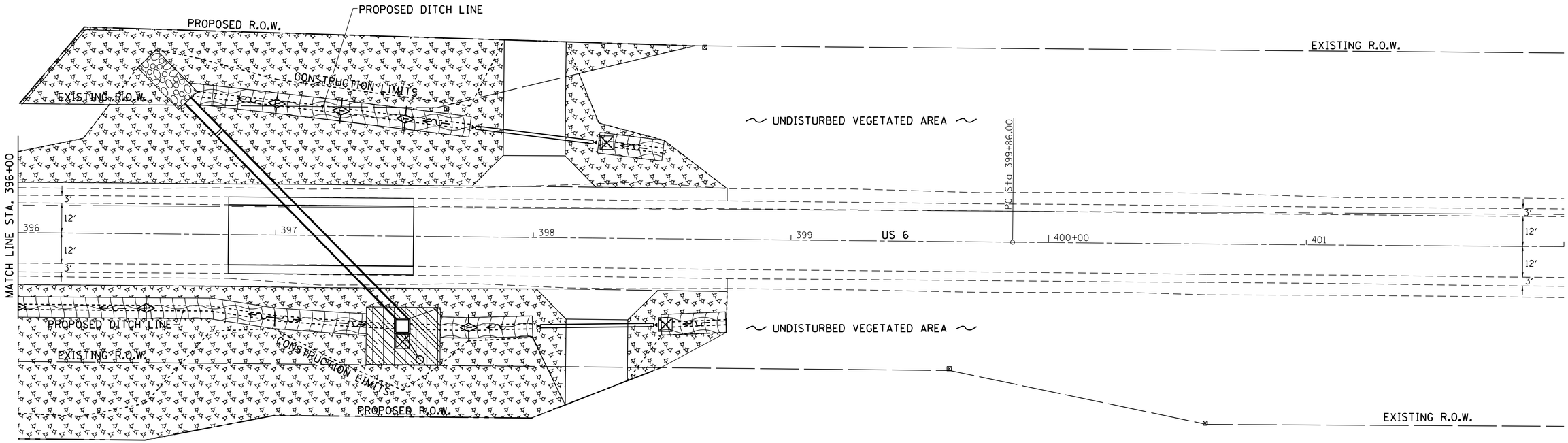
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



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= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

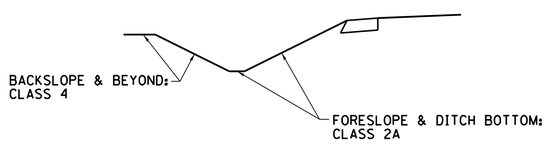
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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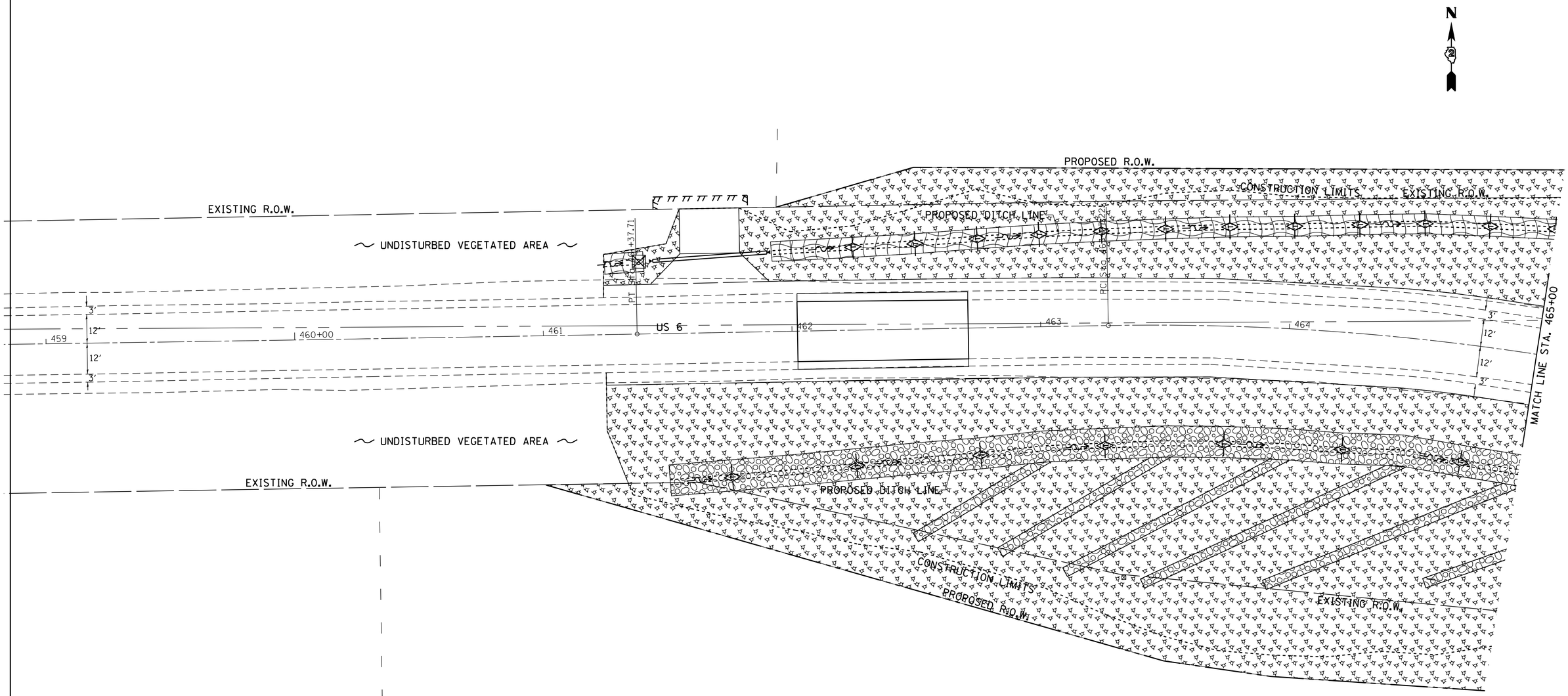
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS



= MULCH METHOD 3

= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

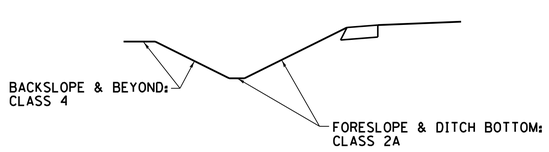
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

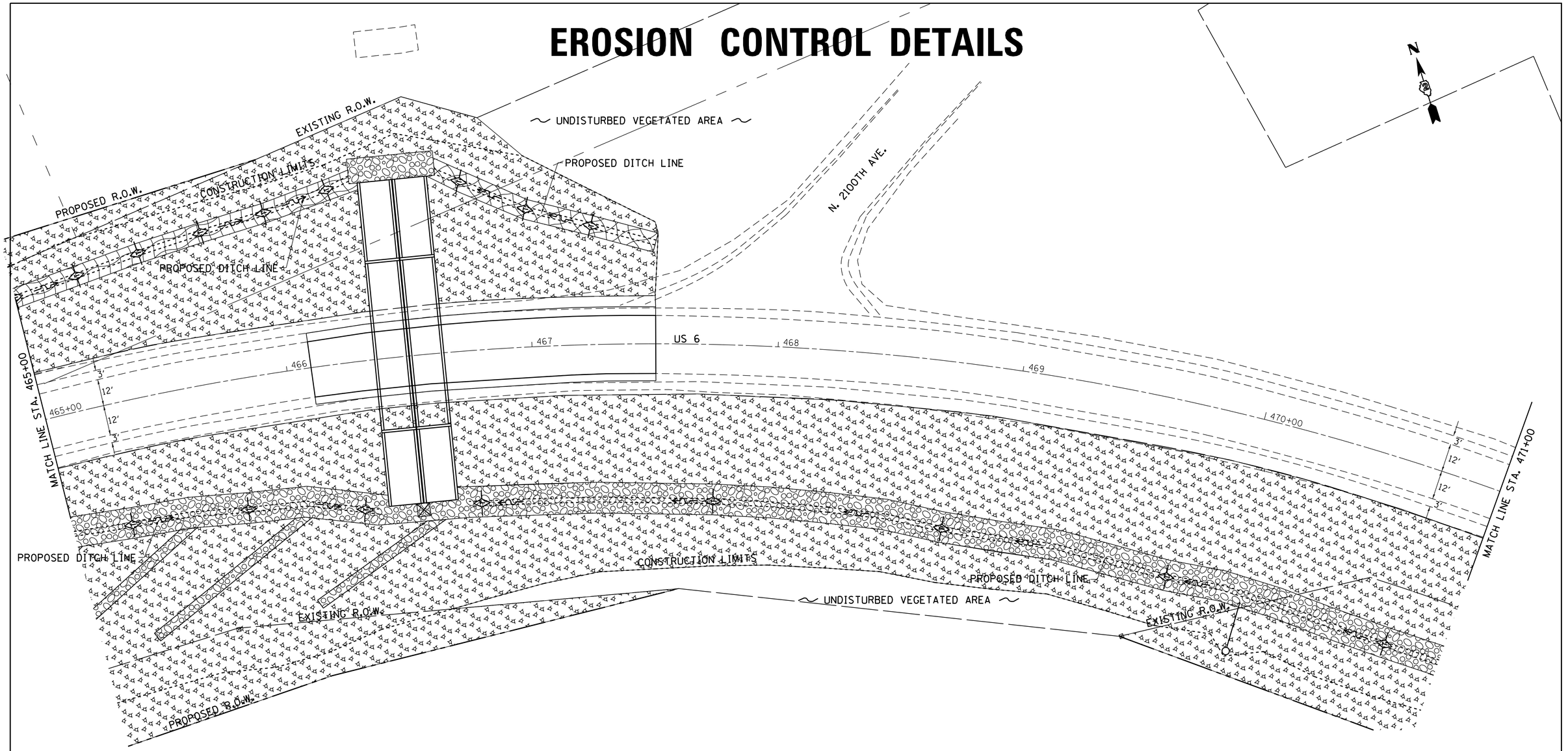
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	82

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

EROSION CONTROL DETAILS



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= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

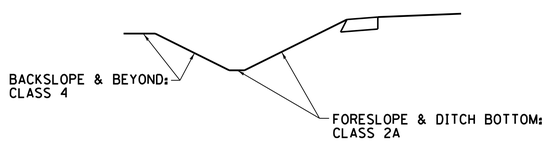
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

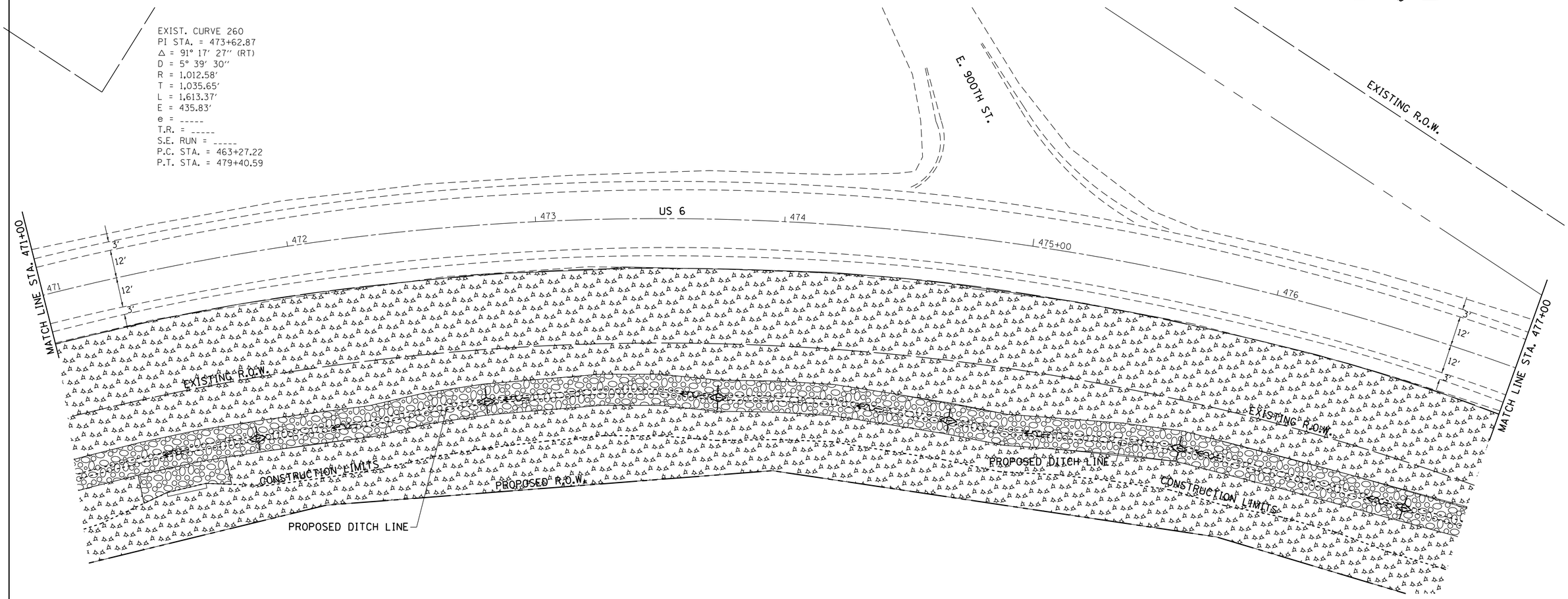
EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	83
		CONTRACT NO. 64F25		
		ILLINOIS FED. AID PROJECT		

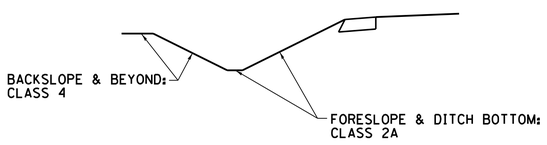
EROSION CONTROL DETAILS

EXIST. CURVE 260
PI STA. = 473+62.87
Δ = 91° 17′ 27″ (RT)
D = 5° 39′ 30″
R = 1,012.58′
T = 1,035.65′
L = 1,613.37′
E = 435.83′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 463+27.22
P.T. STA. = 479+40.59



= MULCH METHOD 3
= TEMPORARY DITCH CHECKS
= EROSION CONTROL BLANKET
= PERIMETER EROSION BARRIER
= INLET PIPE PROTECTION
= RIP RAP
= TURF REINFORCEMENT MAT

SEEDING DETAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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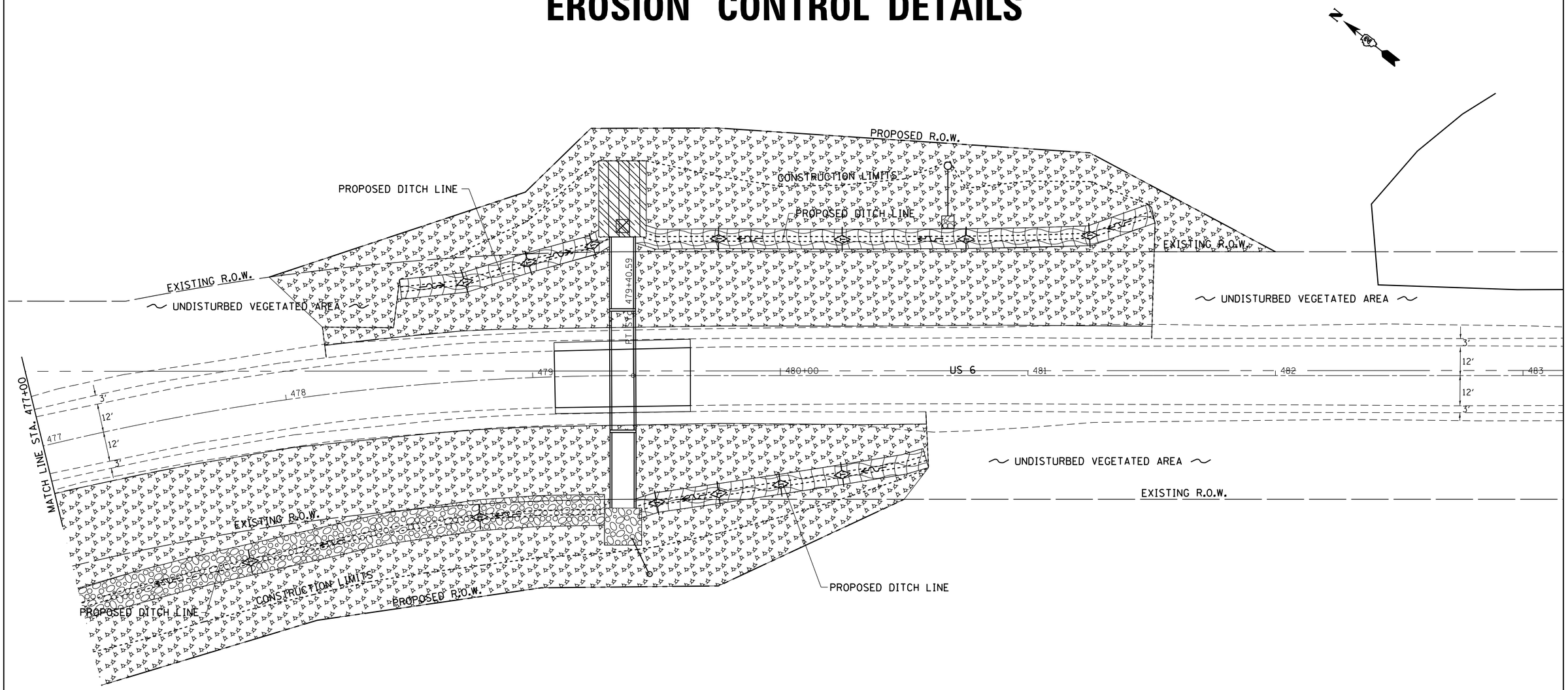
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



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= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

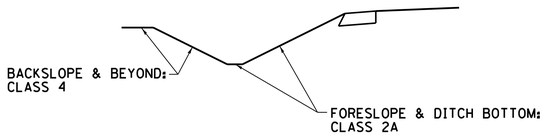
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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		DRAWN -	REVISED -
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Default	PLOT DATE = Fri Oct 19 13:59:15 2012	DATE -	REVISED -

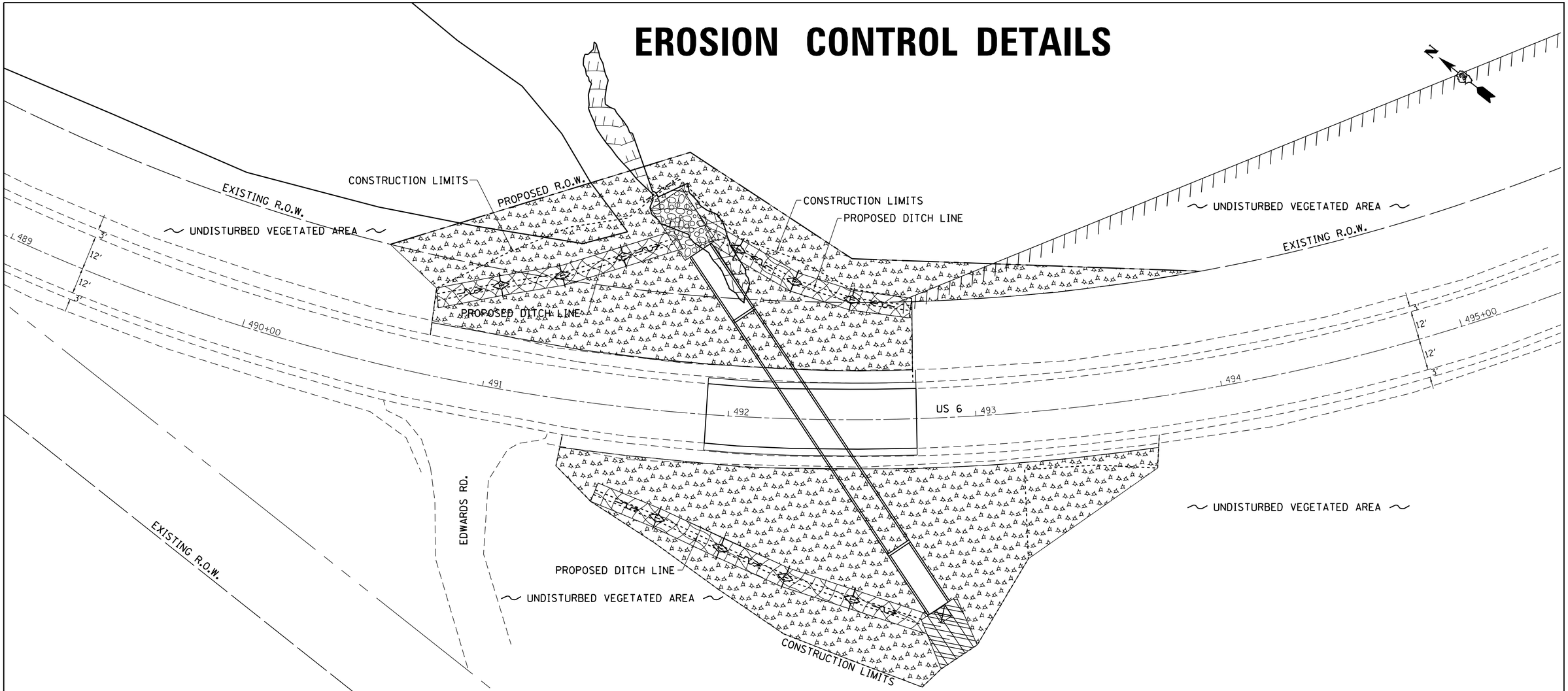
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	85
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS



= MULCH METHOD 3

= TEMPORARY DITCH CHECKS

= EROSION CONTROL BLANKET

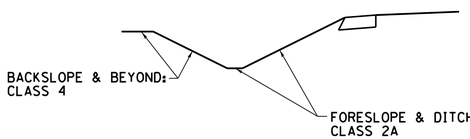
= PERIMETER EROSION BARRIER

= INLET PIPE PROTECTION

= RIP RAP

= TURF REINFORCEMENT MAT

SEEDING DETAIL



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		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = Fri Oct 19 13:59:38 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	86
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 318 + 25
SN 037–1186

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/28/09

ROUTE FAS 226 DESCRIPTION 037-1112 P92-088-09 Box culvert on US 6 over drainway, .1 m. E. of Green River Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 18SW, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1112
Station 318+24

BORING NO. B-1b
Station 318+08
Offset 15.00ft Rt CL
Ground Surface Elev. 637.00 ft

Surface Water Elev. ft
Stream Bed Elev. 14.00 ft

Groundwater Elev.:
First Encounter 620.0 ft ▼
Upon Completion 607.0 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF tan brown LOAM				
			1.0 P	14.0
	635.00			
DENSE tan CONCRETE		40		
		27		
	633.50	6		
STIFF brown SILTY CLAY LOAM	-5	1		
		2	1.1 P	26.0
	631.00	3		
MEDIUM brown SILTY CLAY LOAM		1		
		2	0.5 B	25.0
	628.50	3		
STIFF gray SILTY LOAM	-10	1		
		2	1.1 P	27.0
	626.00	3		
MEDIUM black SILTY CLAY LOAM with 9.5ORGANICS		0		
		0	0.5 B	54.0
	623.50	2		
MEDIUM gray LOAM	-15	0		
		0	0.7 B	25.0
	620.50	2		
DENSE tan SANDY GRAVEL	▼	6		
		15		
		16		
	618.00			
	-20	7		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF light gray CLAY with dirty SAND on top 12" (continued)		9	3.2 P	16.0
	616.00	5		
VERY STIFF light gray CLAY LOAM		6		
		12	3.3 B	16.0
		17		
	613.00			
MEDIUM gray SHALE	-25	5		
		7		
	611.00	14		
DENSE gray SHALE		13		
		19		
	608.50	25		
DENSE gray SHALE	▽-30	10		
		16		
	606.00	22		
VERY DENSE gray SHALE with COAL lens		100/7"		
	603.50			
End of Boring				
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/28/09

ROUTE FAS 226 DESCRIPTION 037-1112 P92-088-09 Box culvert on US 6 over drainway, .1 m. E. of Green River Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 18SW, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1112
Station 318+24

BORING NO. B-2b
Station 318+56
Offset 57.00ft Lt CL
Ground Surface Elev. 627.50 ft

Surface Water Elev. ft
Stream Bed Elev. 84.00 ft

Groundwater Elev.:
First Encounter 623.0 ft ▼
Upon Completion Dry ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM black SILTY CLAY LOAM				
			0.6 P	28.0
	625.50			
SOFT light gray LOAM		0		
		0	0.4 B	23.0
	623.50	2		
MEDIUM gray fine SAND	▼ -5	2		
		4		
	621.00	6		
VERY STIFF light gray CLAY		1		
		4	2.3 B	16.0
	619.00	7		
VERY STIFF light gray/gray CLAY with SHALE	-10	3		
		6	3.7 S	15.0
	616.00	10		
MEDIUM gray SHALE		6		
		9		
	614.00	12		
MEDIUM gray SHALE	-15	6		
		10		
	611.50	16		
VERY DENSE gray COAL with SHALE		100/6"		
	609.00			
End of Boring				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:07 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	87
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 339+15
SN 037-1188

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 1/31/12

ROUTE FAS 226 DESCRIPTION 037-1188 P92-088-09 Box Culvert on US 6, .7 m. E. of Osco Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 18SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1188
Station 339+23

BORING NO. B-1
Station 339+33
Offset 17.00ft Rt CL
Ground Surface Elev. 646.20 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 631.7 ft ▼
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF brown SILTY CLAY LOAM			
		1.0 P	18.0
644.20			
MEDIUM brown SILTY CLAY LOAM	6		
	7	0.8	16.0
642.70	7	P	
MEDIUM brown SILTY CLAY LOAM	-5 2		
	2	0.6	30.0
640.20	3	B	
SOFT black SILTY CLAY LOAM	0		
	0	0.4	33.0
637.70	2	B	
MEDIUM black SILTY CLAY LOAM with 11RGANICS	-10 0		
	1	0.6	47.0
635.20	3	B	
MEDIUM black SILTY CLAY LOAM	0		
	3	0.9	32.0
632.20	3	B	
MEDIUM gray dirty fine SAND	▼ -15 1		
	5		
629.70	8		
MEDIUM gray weathered SHALE	6		
	12		
627.70	7		
	-20 1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM black weathered SHALE with COAL (continued)	4		
625.20	15		
MEDIUM gray weathered SHALE	7		
	9		
622.70	14		
VERY DENSE gray weathered SHALE	-25 20		
	47		
620.20	52		
End of Boring			
	-30		
	-35		
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 1/31/12

ROUTE FAS 226 DESCRIPTION 037-1188 P92-088-09 Box Culvert on US 6, .7 m. E. of Osco Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 18SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1188
Station 339+23

BORING NO. B-2
Station 338+98
Offset 17.00ft Lt CL
Ground Surface Elev. 646.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 632.3 ft ▼
Upon Completion 629.8 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SOFT brown SILTY CLAY LOAM			
		0.5 P	16.0
644.80			
VERY STIFF brown SILTY CLAY LOAM	2		
	5	2.5	21.0
643.30	7	B	
MEDIUM brown SILTY CLAY LOAM	-5 2		
	3	0.7	18.0
640.80	4	B	
MEDIUM brown SILTY CLAY LOAM	1		
	2	0.8	35.0
638.30	3	B	
SOFT black SILTY CLAY LOAM	-10 0		
	1	0.4	38.0
635.80	3	B	
MEDIUM tan SILTY CLAY LOAM	0		
	1	0.9	27.0
633.30	2	B	
SOFT tan SILTY CLAY LOAM	▼ -15 0		
	0	0.3	30.0
630.30	1	B	
MEDIUM black weathered SHALE	▽ 2		
	5		
628.30	8		
MEDIUM gray weathered SHALE	-20 6		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM gray weathered SHALE (continued)	7		
625.80	10		
VERY DENSE gray weathered SHALE	15		
	24		
623.30	40		
VERY DENSE gray weathered SHALE	-25 14		
	23		
620.80	35		
End of Boring			
	-30		
	-35		
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:08 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	88
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 393 + 64
SN 037–1187

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/15/12

ROUTE FAS 226 DESCRIPTION 037–1187 Pipe on US 6, 2/3 m. E. of Talbot Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME–45 Automatic

STRUCT. NO. 037–1187 Prop.
Station 496+14.5

BORING NO. B–1
Station 496+11
Offset 26.00ft Rt CL
Ground Surface Elev. 98.1 ft

Surface Water Elev. 95.4 ft
Stream Bed Elev. 94.8 ft

Groundwater Elev.:
First Encounter 86.1 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
			14	DRY brown SILTY CLAY LOAM
96.10				
	1			SOFT black SILTY CLAY LOAM
	1	0.4	32	
94.60	3	B		
				SOFT dark gray SILTY LOAM
-5	2			
	1	0.4	31	
92.10	3	B		
				MEDIUM light gray SILT
	2			
	4	0.9	25	
89.60	5	B		
				VERY SOFT light gray SILTY LOAM with SAND lens
-10	1			
	1	0.2	32	
	2	P		
86.60				
	3			LOOSE tan/light gray fine SAND
	2			
	4			
84.10				
	4			STIFF gray TILL with SAND lens
-15	5	1.5	12	
	5	B		
82.10				
	4			MEDIUM gray TILL
	4	0.8	15	
	7	B		
79.60				
				MEDIUM gray TILL
-20	2			
				MEDIUM gray TILL (continued)
	2	0.9	16	
77.10	5	B		
				VERY STIFF gray TILL
	3			
	4	2.3	13	
74.60	8	B		
				VERY STIFF gray TILL
-25	3			
	4	2.9	13	
72.10	7	B		
				VERY STIFF gray TILL
	4			
	5	2.7	13	
69.60	9	B		
				VERY STIFF gray TILL
-30	4			
	5	2.1	13	
67.10	9	B		
				VERY STIFF gray TILL
	4			
	7	2.9	12	
64.60	10	B		
				VERY STIFF gray TILL
-35	4			
	5	2.5	13	
62.10	10	B		
				VERY STIFF gray TILL
	4			
	8	3.7	13	
59.10	11	B		
				End of Boring
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8–99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/18/12

ROUTE FAS 226 DESCRIPTION 037–1187 Pipe on US 6, 2/3 m. E. of Talbot Road LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME–45 Automatic

STRUCT. NO. 037–1187 Prop.
Station 496+14.5

BORING NO. B–2
Station 496+23
Offset 24.00ft Lt CL
Ground Surface Elev. 98.2 ft

Surface Water Elev. 95.4 ft
Stream Bed Elev. 94.8 ft

Groundwater Elev.:
First Encounter 86.2 ft ▼
Upon Completion 67.2 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
		0.5	20	MEDIUM brown SILTY CLAY LOAM
		P		
96.20				
	3			STIFF brown SILTY CLAY LOAM
	4	1.5	25	
94.70	5	B		
				MEDIUM black SILTY CLAY LOAM
-5	1			
	2	0.5	31	
92.20	2	B		
				STIFF light gray SILT
	2			
	2	1.1	22	
89.70	5	P		
				MEDIUM light gray SILT
-10	1			
	1	0.8	27	
	3	P		
86.70				
	0			LOOSE light gay fine SAND
	3			
	6			
84.70				
	4			MEDIUM tan fine SAND
-15	7			
	8			
82.20				
	6			MEDIUM tan fine SAND
	7			
	12			
79.20				
-20	2			STIFF gray TILL
				STIFF gray TILL (continued)
	3	1.8	13	
77.20	6	B		
				STIFF gray TILL
	0			
	4	1.1	15	
74.70	8	P		
				No Recovery
-25	3			
	6			
72.20	9			
				No Recovery
	5			
	7			
69.70	9			
				STIFF gray TILL
-30	3			
	5	1.4	15	
67.20▽	7	B		
				VERY STIFF gray TILL
	5			
	8	2.5	14	
64.70	12	B		
				VERY STIFF gray CLAY LOAM TILL
-35	5			
	8	3.3	16	
62.20	14	B		
				End of Boring
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8–99)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:09 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	89

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

BORING LOGS
STA. 397+12
SN 037-1191

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 2/1/12

ROUTE FAS 226 DESCRIPTION 037-1191 P92-088-09 Box Culvert on US 6, .7 m. E. of Talbot Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1191
Station 397+17

BORING NO. B-1
Station 397+42
Offset 18.00ft Rt CL
Ground Surface Elev. 619.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 605.1 ft
Upon Completion Wash ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SOFT brown SILTY LOAM
		0.3 P	23.0	
617.60				
	2			MEDIUM brown SILTY LOAM
	4	0.7 P	24.0	
	4			
616.10				
-5	0			VERY SOFT brown SILTY LOAM
	0	0.2 B	27.0	
	3			
613.60				
	0			MEDIUM black SILTY CLAY LOAM
	2	0.8 B	28.0	
	3			
611.10				
-10	0			SOFT black SILTY CLAY LOAM
	0	0.3 B	34.0	
	2			
608.60				
	1			STIFF gray SILTY LOAM with SAND lenses
	3	1.1 P	22.0	
	4			
605.60				
-15	0			VERY LOOSE gray fine SAND
	3			
	4			
603.60				
	0			VERY LOOSE tan fine SAND
	0			
	2			
601.10				
-20	6			LOOSE tan fine SAND
	5			LOOSE tan fine SAND (continued)
	3			
598.10				
	1			STIFF gray CLAY LOAM TILL
	3	1.2 B	15.0	
	4			
596.10				
-25	0			STIFF gray CLAY LOAM TILL
	3	1.3 B	16.0	
	4			
593.60				
	1			VERY STIFF gray CLAY LOAM TILL
	4	2.1 B	17.0	
	7			
591.10				
-30	2			VERY STIFF gray CLAY LOAM TILL
	5	2.3 B	16.0	
	8			
588.60				
	4			VERY STIFF gray CLAY LOAM TILL
	9	2.7 B	16.0	
	15			
586.10				
-35	3			VERY STIFF gray CLAY LOAM TILL
	4	2.5 B	16.0	
	7			
583.10				
	2			LOOSE gray fine SAND
	2			
	5			
581.10				
-40	5			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 2/1/12

ROUTE FAS 226 DESCRIPTION 037-1191 P92-088-09 Box Culvert on US 6, .7 m. E. of Talbot Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1191
Station 397+17

BORING NO. B-1
Station 397+42
Offset 18.00ft Rt CL
Ground Surface Elev. 619.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 605.1 ft
Upon Completion Wash ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	5			Wash
	5			LOOSE gray fine SAND (continued)
578.60				End of Boring
-45				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = C:\pw_work\pwidot\cushmanbw\d0169166\D2088809-sht-logs.dgn	USER NAME = hogensonjd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:09 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	90
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 397+12
SN 037-1191

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 2/17/12

ROUTE FAS 226 DESCRIPTION 037-1191 P92-088-09 Box Culvert on US 6, .7 m. E. of Talbot Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1191
Station 397+17

BORING NO. B-2
Station 396+78
Offset 18.00ft Lt CL
Ground Surface Elev. 617.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 602.4 ft
Upon Completion Wash ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown SILTY CLAY LOAM			0.7 P	19.0
	614.90			
MEDIUM black SILTY CLAY LOAM		1 2 3	0.6 P	33.0
	613.40			
	-5			
VERY SOFT tan SILTY LOAM		0 1 2	0.2 P	21.0
	610.90			
MEDIUM black SILTY CLAY LOAM		1 1 3	0.7 B	27.0
	608.40			
	-10			
VERY SOFT tan SILTY CLAY LOAM		0 0 0	0.2 B	23.0
	605.40			
VERY LOOSE tan dirty fine SAND		1 1 2		
	603.40			
	▼-15			
VERY LOOSE tan fine SAND		0 1 2		
	600.90			
LOOSE tan fine SAND		0 2 6		
	598.40			
	-20			
MEDIUM tan fine SAND with GRAVEL		3 10 9		
	595.40			
Wash		1		
MEDIUM gray CLAY LOAM TILL		3 4	1.0 B	15.0
	593.40			
	-25			
SOFT gray CLAY LOAM		4 6	0.4 B	17.0
	590.90			
SOFT gray CLAY LOAM		7 10 11	0.4 B	16.0
	588.40			
	-30			
VERY STIFF gray CLAY LOAM TILL		4 8 13	2.7 B	14.0
	585.40			
Wash MEDIUM gray fine SAND		8 8 11		
	582.90			
	-35			
STIFF gray SILT		9 10 10	1.3 S	23.0
	580.90			
VERY STIFF gray SILTY LOAM		7 8 11	2.5 B	20.0
	578.40			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 2/17/12

ROUTE FAS 226 DESCRIPTION 037-1191 P92-088-09 Box Culvert on US 6, .7 m. E. of Talbot Road LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 17SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1191
Station 397+17

BORING NO. B-2
Station 396+78
Offset 18.00ft Lt CL
Ground Surface Elev. 617.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 602.4 ft
Upon Completion Wash ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray SILTY LOAM			2.2 S	20.0
	575.90			
End of Boring				
	-45			
	-50			
	-55			
	-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = C:\pw_work\pwidot\cushmanbw\d0169166\D2088809-sht-logs.dgn	USER NAME = hogensonjd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:10 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	91
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 466 + 50
SN 037–1192

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 2

Date 2/2/12

ROUTE FAS 226 DESCRIPTION 037-1192 P92-088-09 Box Culvert on US 6, .1 m. W. of 900E LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 16SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1192
Station 466+50

BORING NO. B-1
Station 466+48
Offset 55.00ft Lt CL
Ground Surface Elev. 632.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				VERY STIFF tan SILTY LOAM
		2.2 P	15.0	
630.40				
	8			VERY STIFF black SILTY LOAM
	8	3.0	18.0	
	9	P		
628.90				
-5	6			VERY STIFF black SILTY LOAM
	4	2.5	17.0	
	5	P		
626.40				
	0			MEDIUM black SILTY CLAY LOAM
	2	0.8	24.0	
	3	B		
623.90				
-10	0			MEDIUM gray SILTY CLAY LOAM
	2	0.6	20.0	
	3	B		
620.90				
	0			MEDIUM gray SILTY CLAY LOAM TILL
	1	1.0	14.0	
	4	B		
618.90				
-15	1			VERY STIFF gray SILTY CLAY LOAM TILL
	3	2.1	13.0	
	6	B		
616.40				
	1			VERY STIFF gray SILTY CLAY LOAM TILL
	3	2.1	14.0	
	6	B		
613.90				
-20	1			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	3	2.0	12.0	STIFF gray SILTY CLAY LOAM TILL (continued)
	6	B		
611.40				
	1			VERY STIFF gray SILTY CLAY LOAM TILL
	4	2.5	14.0	
	6	B		
608.90				
-25	1			VERY STIFF gray SILTY CLAY LOAM TILL
	4	2.3	12.0	
	6	B		
606.40				
	1			VERY STIFF gray SILTY CLAY LOAM TILL
	6	2.9	12.0	
	8	B		
603.90				
-30	2			VERY STIFF gray SILTY CLAY LOAM TILL
	5	3.3	13.0	
	9	B		
601.40				
	3			HARD gray SILTY CLAY LOAM TILL
	6	4.5	20.0	
	10	B		
598.90				
-35	3			VERY STIFF gray SILTY CLAY LOAM TILL
	6	3.7	15.0	
	12	B		
596.40				
	3			HARD gray SILTY CLAY LOAM TILL
	6	5.4	15.0	
	13	B		
593.90				
-40	2			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 2 of 2

Date 2/2/12

ROUTE FAS 226 DESCRIPTION 037-1192 P92-088-09 Box Culvert on US 6, .1 m. W. of 900E LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 16SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1192
Station 466+50

BORING NO. B-1
Station 466+48
Offset 55.00ft Lt CL
Ground Surface Elev. 632.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	10	3.1	20.0	VERY STIFF gray SILTY CLAY LOAM TILL
591.40	12*	B		
				* Estimated (continued)
				End of Boring
-45				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:10 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	92
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 466 + 50
SN 037–1192

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 2/16/12

ROUTE FAS 226 DESCRIPTION 037-1192 P92-088-09 Box Culvert on US 6, .1 m. W. of 900E LOGGED BY Be. Wetzell

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 16SE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1192
Station 466+50

BORING NO. B-2
Station 466+62
Offset 11.00ft Rt Cl
Ground Surface Elev. 632.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				MEDIUM gray SANDY LOAM
		0.5 P	13.0	
630.00				
	4			VERY STIFF black SILTY LOAM
	5	2.3	16.0	
628.50	6	S		
-5				
	4			VERY STIFF black SILTY CLAY LOAM
	5	2.1	27.0	
626.00	8	B		
	2			SOFT gray SANDY LOAM
	2	0.4	24.0	
623.00	4	B		
-10				
	2			LOOSE gray dirty fine SAND
	4			
620.50	3			
	3			STIFF gray SILTY CLAY LOAM TILL
	4	1.5	14.0	
618.50	6	B		
-15				
	3			STIFF gray SILTY CLAY LOAM TILL
	5	1.9	12.0	
616.00	7	B		
	4			STIFF gray SILTY CLAY LOAM TILL
	6	2.1	14.0	
613.50	7	B		
-20				
	4			VERY STIFF gray SILTY CLAY LOAM TILL
	5	2.7	13.0	
611.00	8	B		
	5			VERY STIFF gray SILTY CLAY LOAM TILL
	6	2.5	12.0	
608.50	8	B		
-25				
	5			VERY STIFF gray SILTY CLAY LOAM TILL
	8	2.5	14.0	
606.00	11	B		
	3			VERY STIFF gray SILTY CLAY LOAM TILL
	10	2.9	15.0	
603.50	11*	B		
-30				
	4			VERY STIFF gray SILTY CLAY LOAM TILL
	12	3.3	14.0	
601.00	11*	B		
	5			HARD tan SILTY CLAY LOAM TILL
	22	5.7	12.0	
598.50	19*	B		
-35				
	3			HARD tan SILTY CLAY LOAM TILL
	18	5.2	13.0	
596.00	19*	B		
-40				

* Estimated
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 24 11:21:11 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	93
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 479 + 36
SN 037–1189

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/19/09

ROUTE FAS 226 DESCRIPTION 037-1107 P92-088-09 Box culvert on US 6, .75 m. W. of 950E LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 21NE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1107
Station 479+36

BORING NO. B-1b
Station 479+70
Offset 27.00ft Rt CL
Ground Surface Elev. 642.20 ft

Surface Water Elev. 91.00 ft
Stream Bed Elev. 90.50 ft

Groundwater Elev.:
First Encounter 630.2 ft ▼
Upon Completion 612.2 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SOFT brown SILTY CLAY LOAM			
		0.3 P	23.0
640.20			
MEDIUM brown SILTY LOAM	1		
	2	0.6	
638.70	3	P	
MEDIUM brown SILTY CLAY LOAM	1		
-5	2	0.8	28.0
636.20	3	B	
MEDIUM light gray SILTY LOAM	1		
	2	0.5	28.0
633.70	3	B	
MEDIUM light gray SILTY LOAM	0		
-10	3	0.7	26.0
630.70	3	B	
MEDIUM light gray dirty SANDY GRAVEL	1		
	6		
628.20	10		
STIFF gray CLAY LOAM TILL	0		
-15	3	1.5	14.0
626.20	4	B	
VERY STIFF gray CLAY LOAM TILL	1		
	4	2.3	13.0
623.70	5	B	
-20	1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray CLAY LOAM TILL (continued)	4	2.7	14.0
621.20	7	B	
MEDIUM gray CLAY LOAM TILL	5		
	6	0.8	25.0
618.70	8	P	
VERY STIFF gray CLAY LOAM TILL	3		
-25	6	3.3	8.0
616.20	11	B	
VERY STIFF gray CLAY LOAM TILL	4		
	7	3.1	13.0
613.70	9	B	
VERY STIFF gray CLAY LOAM TILL	7		
▽-30	7	2.9	14.0
611.20	10	B	
VERY STIFF gray CLAY LOAM TILL	2		
	5	3.9	14.0
608.70	10	B	
VERY STIFF gray CLAY LOAM TILL	4		
-35	6	3.9	19.0
606.20	10	B	
HARD gray CLAY LOAM TILL	6		
	8	5.4	16.0
603.70	13	B	
End of Boring			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/19/09

ROUTE FAS 226 DESCRIPTION 037-1107 P92-088-09 Box culvert on US 6, .75 m. W. of 950E LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. - 21NE, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1107
Station

BORING NO. B-2b
Station 479+18
Offset 49.00ft Lt CL
Ground Surface Elev. 643.20 ft

Surface Water Elev. 91.00 ft
Stream Bed Elev. 90.50 ft

Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown SILTY CLAY LOAM			
		0.5 P	24.0
641.20			
MEDIUM brown SILTY LOAM	0		
	2	0.6	32.0
639.70	2	B	
SOFT brown SILTY CLAY LOAM	0		
-5	1	0.3	32.0
637.20	3	B	
STIFF tan LOAM	0		
	0	2.0	15.0
634.70	4	P	
STIFF tan LOAM	4		
-10	6	1.0	14.0
632.20	10	B	
VERY STIFF gray CLAY LOAM TILL	2		
	6	2.9	11.0
629.70	8	B	
VERY STIFF gray CLAY LOAM TILL	2		
-15	6	2.1	13.0
627.20	7	P	
VERY STIFF gray CLAY LOAM TILL	2		
	6	3.5	13.0
624.70	9	B	
-20	1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray CLAY LOAM TILL (continued)	5	3.1	13.0
622.20	8	B	
VERY STIFF gray CLAY LOAM TILL	1		
	5	2.7	13.0
619.70	6	B	
VERY STIFF gray CLAY LOAM TILL	1		
-25	5	2.9	16.0
617.20	6	B	
VERY STIFF gray CLAY LOAM TILL	1		
	5	3.5	15.0
614.70	9	B	
VERY STIFF gray CLAY LOAM TILL	1		
-30	5	2.9	18.0
612.20	8	B	
HARD gray CLAY LOAM TILL	2		
	5	4.3	16.0
609.70	10	B	
VERY STIFF gray SILTY CLAY LOAM TILL	2		
-35	5	2.7	18.0
607.20	10	B	
End of Boring			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = C:\pw_work\pwidot\cushmanbw\d0169166\D2088809-sht-logs.dgn	USER NAME = hogensonjd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 24 11:21:12 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	94
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

BORING LOGS
STA. 492 + 34
SN 037–1190

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/18/09

ROUTE FAS 226 DESCRIPTION 037-1106 P92-088-09 Box culvert on US 6, .5 m. W. of 950E LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 22NW, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1106
Station 492+30

BORING NO. B-1a
Station 492+38
Offset 62.00ft Lt CL
Ground Surface Elev. 655.00 ft

Surface Water Elev. ft
Stream Bed Elev. 87.00 ft

Groundwater Elev.:
First Encounter 648.0 ft ▼
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown SILTY CLAY LOAM			
		0.5 P	27.0
653.00			
SOFT brown LOAM	1		
	2	0.3 P	36.0
	3		
651.50			
MEDIUM dark gray LOAM	-5 0		
	0	0.5 B	31.0
	2		
649.00			
VERY SOFT tan LOAM ▼	0		
	1	0.2 P	23.0
	1		
646.50			
MEDIUM tan SANDY LOAM TILL	-10 4		
	10	5.0 P	10.0
	10		
644.00			
HARD gray CLAY LOAM TILL	4		
	6	5.8 B	11.0
	11		
641.50			
VERY STIFF gray CLAY LOAM TILL	-15 1		
	3	3.5 B	11.0
	9		
639.00			
VERY STIFF gray CLAY LOAM TILL	3		
	6	3.9 B	11.0
	9		
636.50			
HARD gray CLAY LOAM TILL	-20 3		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
HARD gray CLAY LOAM TILL (continued)	6	5.0 B	10.0
634.00	9		
HARD gray CLAY LOAM TILL	2		
	5	4.3 B	11.0
631.50	9		
HARD gray CLAY LOAM TILL	-25 2		
	6	4.7 B	12.0
629.00	15		
HARD gray CLAY LOAM TILL	4		
	6	4.3 B	11.0
626.50	9		
VERY STIFF gray CLAY LOAM TILL	-30 2		
	6	3.7 B	12.0
624.00	10		
End of Boring			
	-35		
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 5/27/09

ROUTE FAS 226 DESCRIPTION 037-1106 P92-088-09 Box culvert on US 6, .5 m. W. of 950E LOGGED BY W. Garza

SECTION 3T & 3BR-1 LOCATION Edford Twp. – 22NW, SEC. , TWP. 17N, RNG. 2E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1106
Station 492+30

BORING NO. B-2a
Station 492+22
Offset 16.00ft Rt CL
Ground Surface Elev. 661.70 ft

Surface Water Elev. ft
Stream Bed Elev. 87.00 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF brown SILTY CLAY LOAM			
		2.0 P	21.0
659.70			
STIFF brown SILTY CLAY LOAM	2		
	2	1.1 P	24.0
	6		
658.20			
STIFF brown SILTY CLAY LOAM	-5 1		
	2	1.5 P	24.0
	4		
655.70			
MEDIUM dark brown SILTY CLAY LOAM	2		
	3	0.8 P	20.0
	4		
653.20			
STIFF tan/gray LOAM	-10 1		
	4	2.0 B	15.0
	7		
650.70			
VERY STIFF tan LOAM TILL	4		
	5	2.3 B	12.0
	6		
648.20			
VERY STIFF tan LOAM TILL	-15 1		
	5	2.3 B	11.0
	9		
645.70			
VERY STIFF tan LOAM TILL with COAL lens	5		
	9	3.5 B	10.0
	13		
643.20			
HARD gray CLAY LOAM TILL	-20 3		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
HARD gray CLAY LOAM TILL (continued)	10	6.2 S	9.0
640.70	12		
VERY STIFF gray CLAY LOAM TILL	1		
	5	3.1 B	10.0
638.20	7		
VERY STIFF gray CLAY LOAM TILL	-25 1		
	5	2.3 B	13.0
635.70	8		
HARD gray CLAY LOAM TILL	2		
	7	4.7 B	12.0
633.20	10		
HARD gray CLAY LOAM TILL	-30 1		
	6	4.1 B	12.0
630.70	11		
HARD gray CLAY LOAM TILL	2		
	6	4.1 B	10.0
628.20	9		
VERY STIFF gray CLAY LOAM TILL	-35 1		
	5	3.9 B	12.0
625.70	9		
End of Boring			
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 24 11:21:12 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

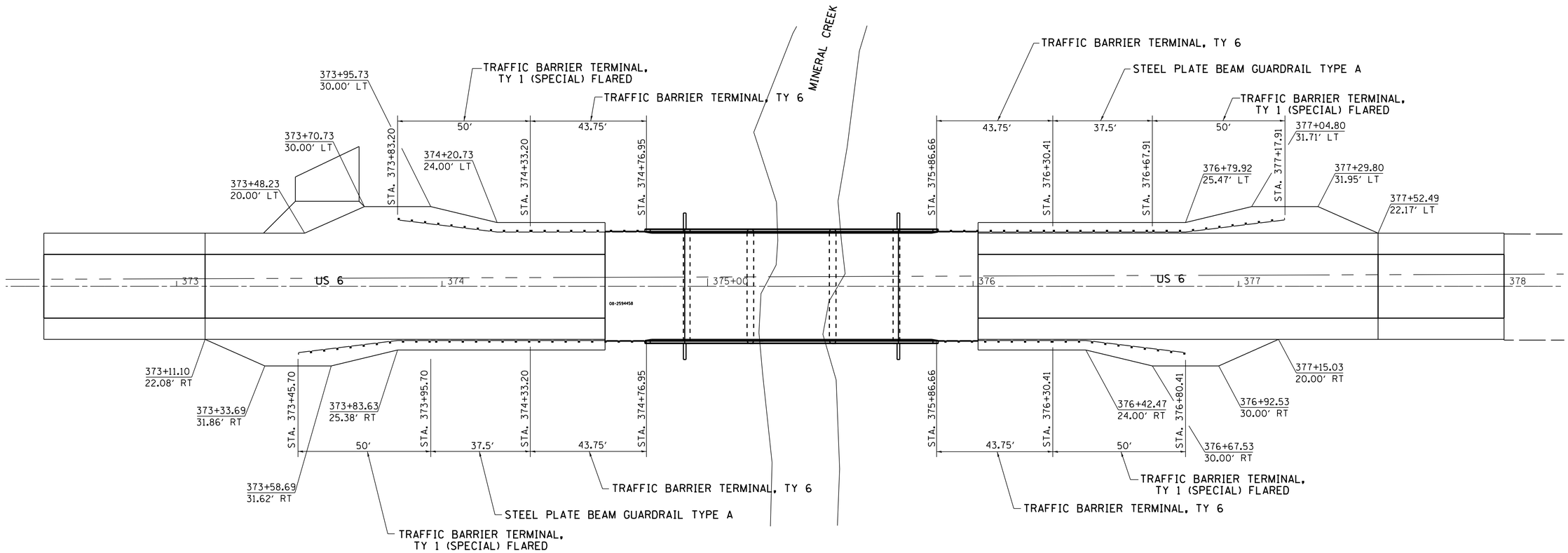
BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	95
		CONTRACT NO. 64F25		
	ILLINOIS FED. AID PROJECT			

GUARDRAIL DETAIL

STA. 375+32
SN 037-0178



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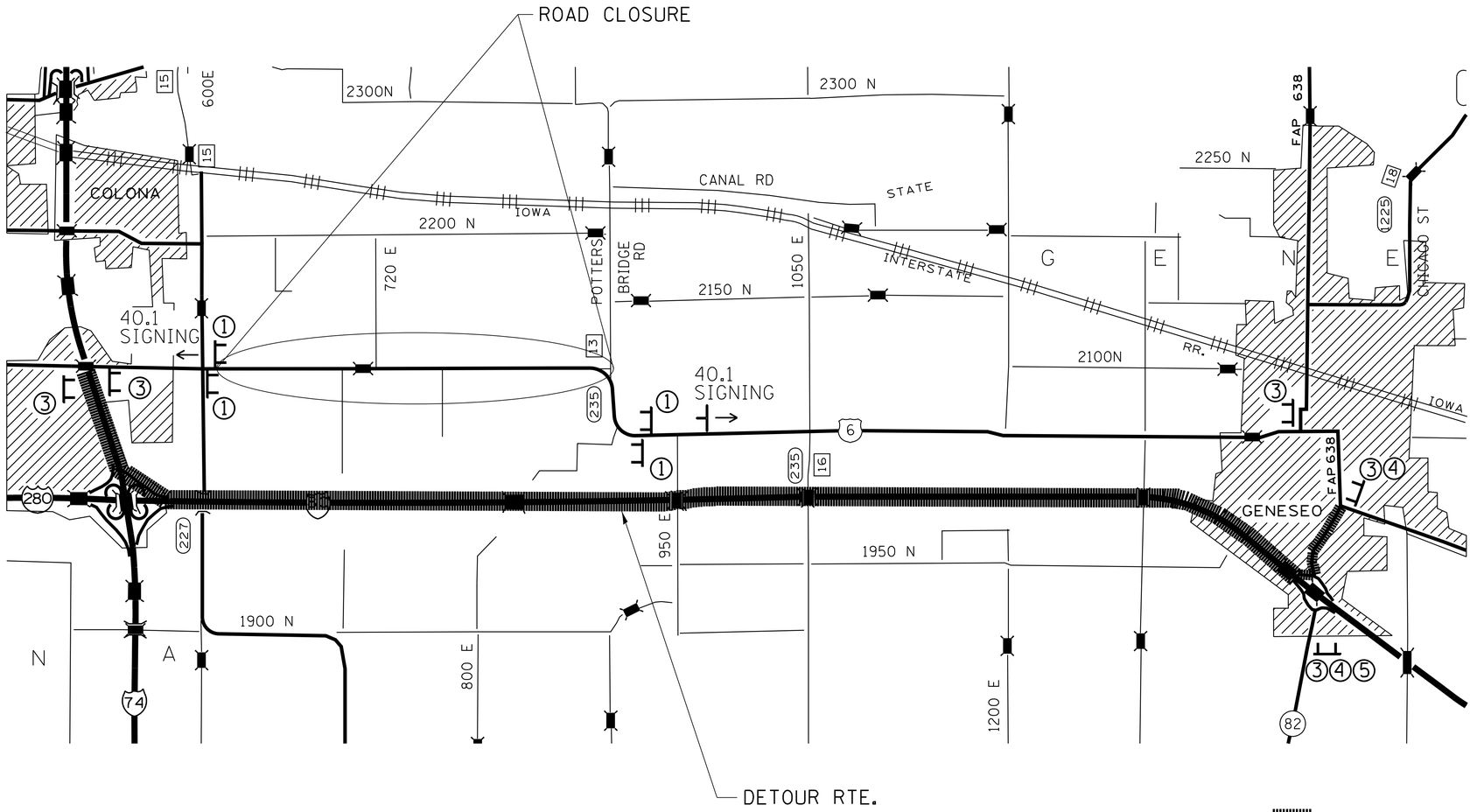
		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

DETOUR ROUTE



DETOUR ROUTE

TYPE III BARRICADES WITH FLASHERS PLACED AS SHOWN IN STANDARD 701901.

ROAD CLOSED X MILE(S) SIGN WITH SUPPLEMENTAL PLATES AS REQUIRED IN THE SPECIAL PROVISIONS

THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL)

① ROAD CLOSED TO THRU TRAFFIC

② ROAD CLOSED AHEAD

③ ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY

④ 6 ADD SIGN TO ALL WING BARRICADES

⑤ WEST

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		DRAWN -	REVISED -
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	PLOT DATE = Fri Oct 19 13:11:58 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE

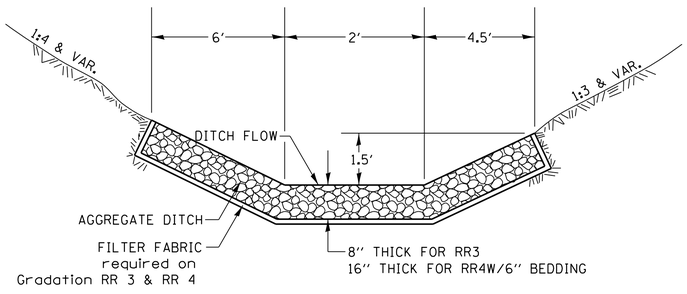
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	97

CONTRACT NO. 64F25

ILLINOIS FED. AID PROJECT

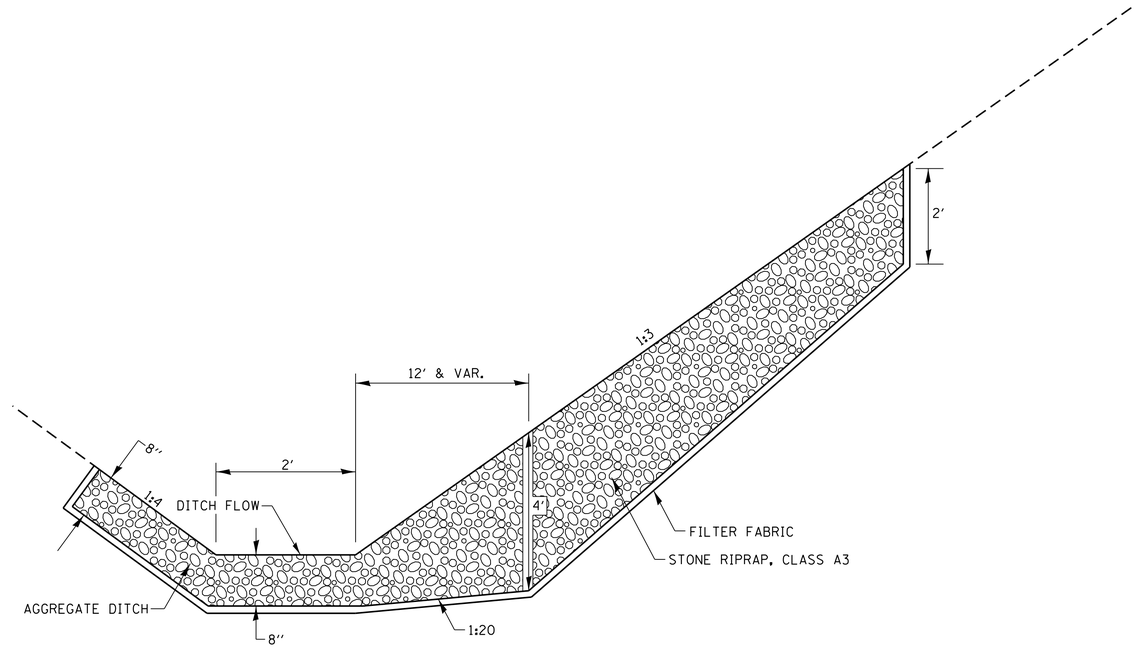
AGGREGATE DITCH FOR FLEXIBLE DITCH LINING



THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 281.
AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS OF ACTUAL SURFACE AREA.
AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STONE RIPRAP CLASS A3.
THE FILTER FABRIC SHALL BE ACCORDING TO SECTION 282. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

BACKSLOPE STABILITY DRAIN



NOTE: SEE PLAN AND PROFILE SHEETS FOR PLAN LAYOUT

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 281.

THIS BACKSLOPE STABILITY DRAIN WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP CLASS A3.
THE FILTER FABRIC SHALL BE ACCORDING TO SECTION 282. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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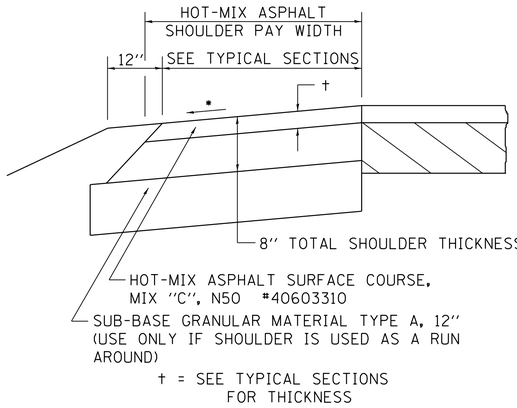
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
226	3T & 3BR-1	HENRY	210	98
		CONTRACT NO. 64F25		
	ILLINOIS	FED. AID PROJECT		

HOT–MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

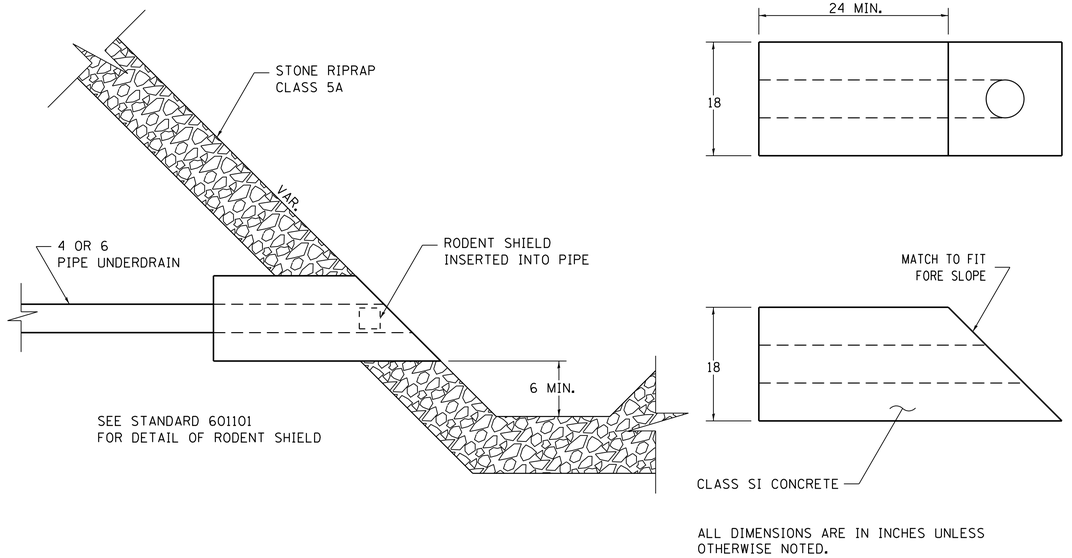
USE HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 7-05-12

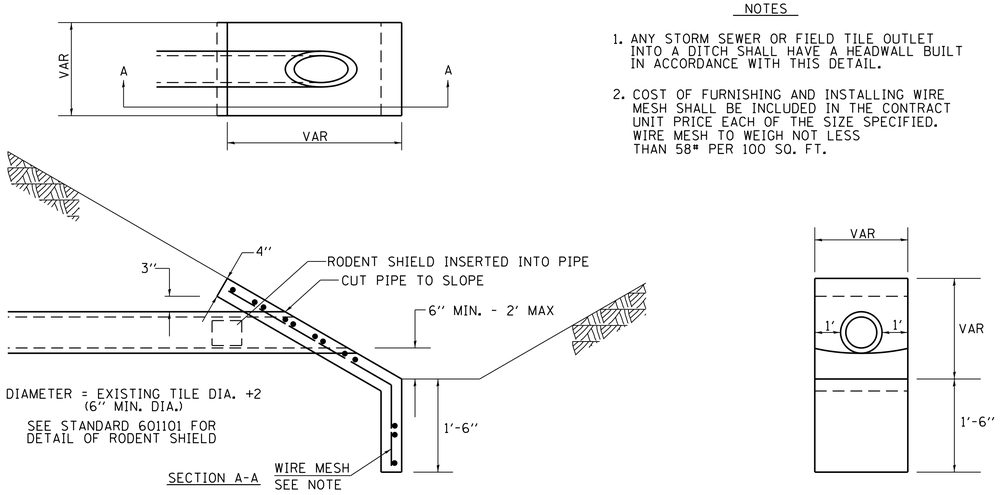
CONCRETE HEADWALLS FOR PIPE DRAINS



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-3-11

CAST–IN–PLACE REINFORCED CONCRETE END SECTIONS

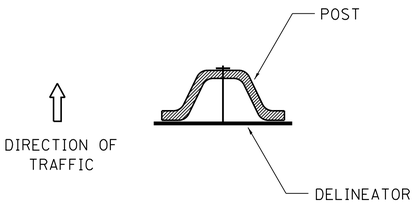


NOTES

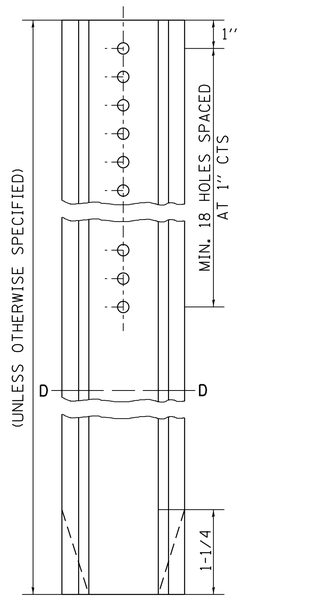
1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH OF THE SIZE SPECIFIED. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

REVISED - 10-09-10

DELINEATOR AND POST ORIENTATION



SECTION D-D



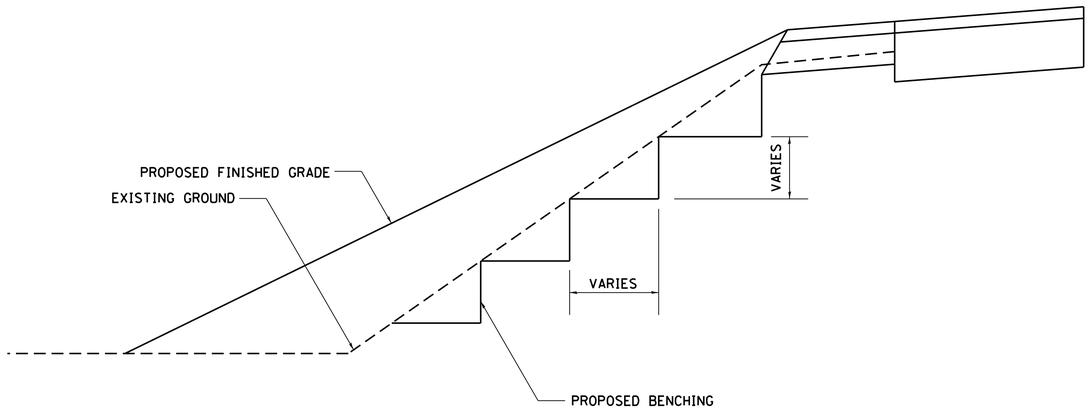
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-3-11	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		226	3T & 3BR-1	HENRY	210	99
REVISED -				CONTRACT NO. 64F25		
REVISED -	SCALE: 20.0000 '' / in. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Oct 19 13:13:30 2012

TYPICAL BENCHING ON EXISTING EMBANKMENT

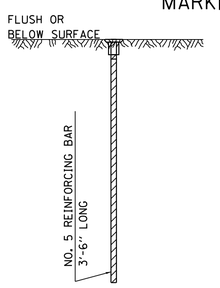


REVISED - 2-22-06

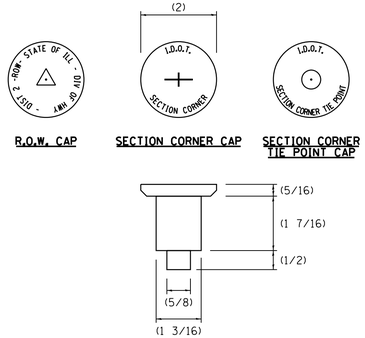
TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LAND SECTION & REFERENCE MARKERS

REFERENCE MARKER & LAND SECTION MARKER

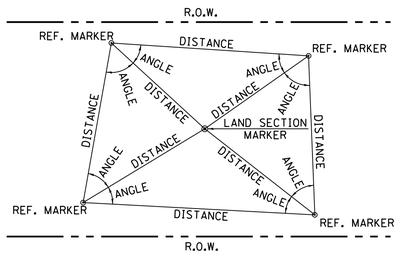


SECTION



CAP DETAIL

METHOD OF REFERENCING MARKERS



- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 28" OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL SO AS NOT TO BE DISTURBED BY MOWING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

METHOD OF REFERENCING POINTS

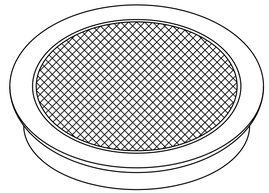
REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 3" BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL BE REPLACED BY CORE DRILL AND RESETTING PIN.

ALUMINUM CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY THE SURVEYOR WHO IS RESPONSIBLE FOR MONUMENTING CORNERS.

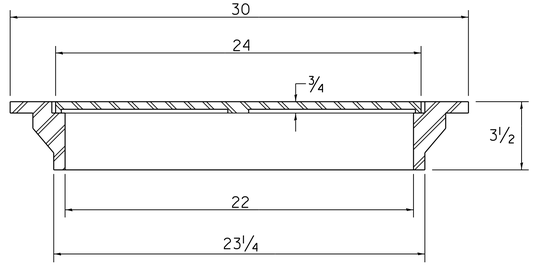
REVISED - 03-05-10

LAND SECTION & REFERENCE MARKERS 63.4

FIELD TILE JUNCTION VAULTS 24 AND 36 DIA.

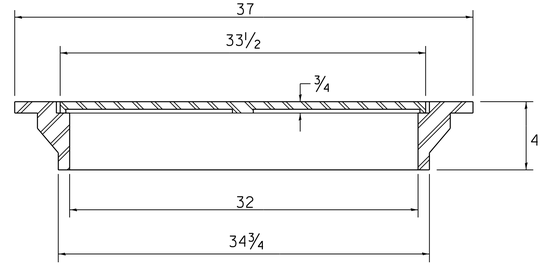


FRAME & LID FOR 24 VAULT

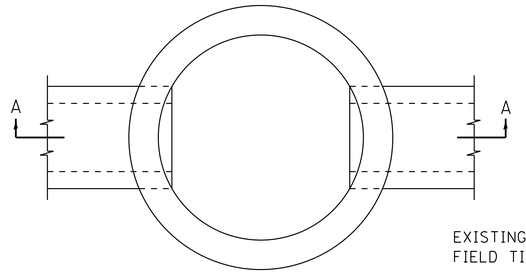


TOTAL WEIGHT: 146 LBS.

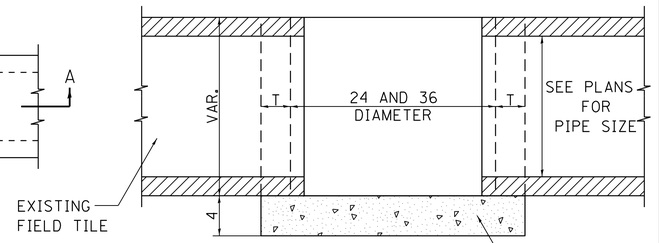
FRAME & LID FOR 36 VAULT



TOTAL WEIGHT: 280 LBS.



PLAN

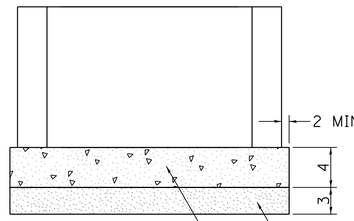


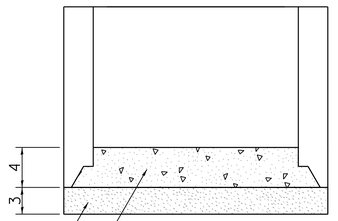
SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.





ALTERNATE METHODS

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		226	3T & 3BR-1	HENRY	210	100
REVISED -				CONTRACT NO. 64F25		
REVISED -	SCALE: 20.0000 ' / in. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Fri Oct 19 13:13:51 2012

FIELD TILE JUNCTION VAULTS 24 AND 36 DIA. 30.2