

11-04-2016 LETTING ITEM 041

**INDEX**

SEE SHEET 2

**STATE STANDARDS**

SEE SHEET 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

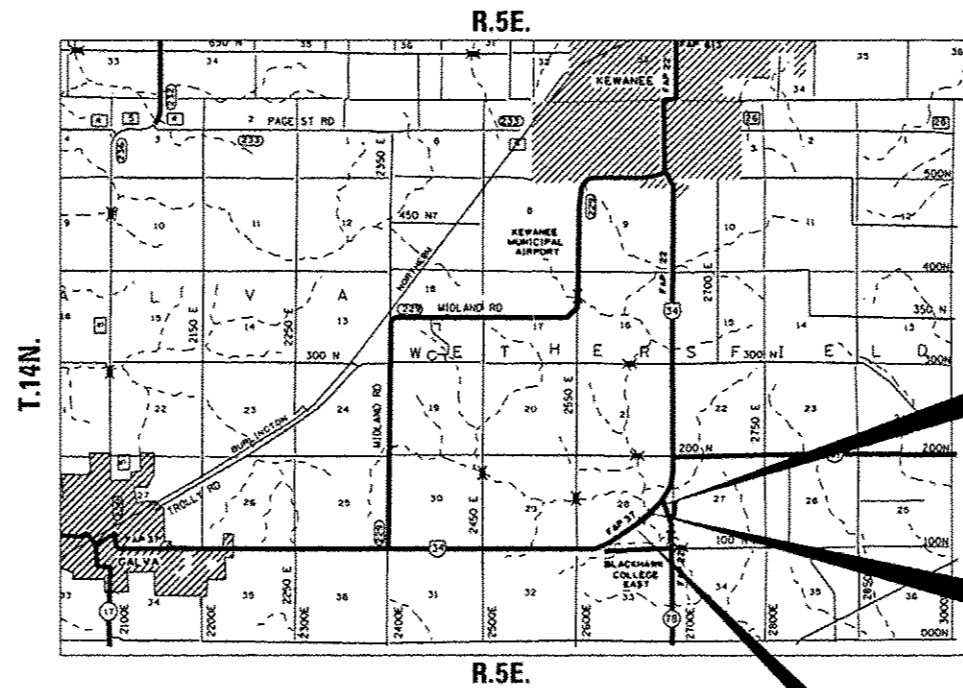
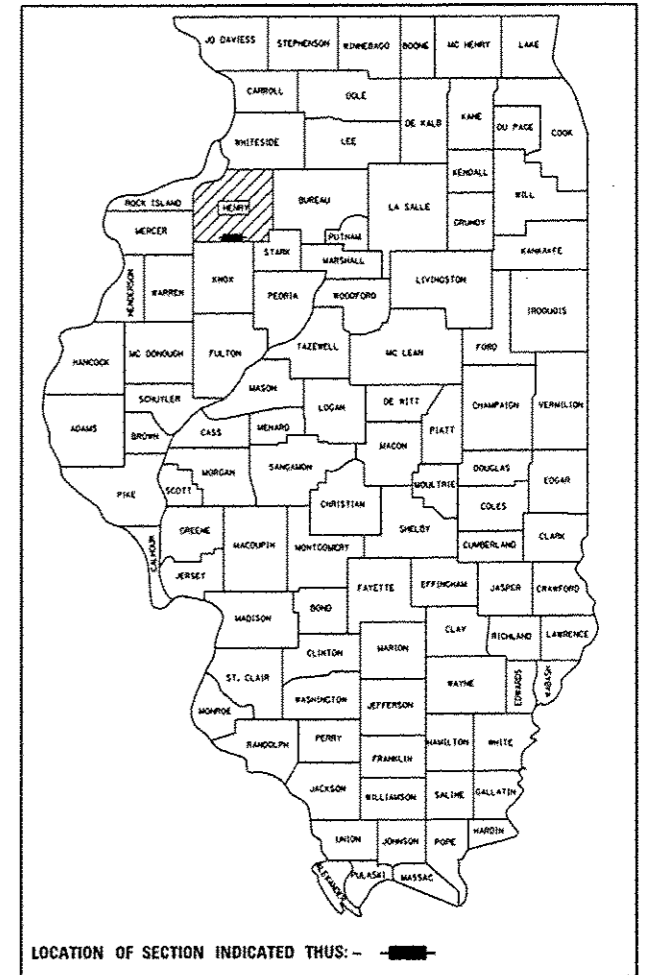
FAP ROUTE 37 (US 34)  
SECTION 10BR-1  
PROJECT ACF-0037(130)

HENRY COUNTY

C-92-055-14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 64H02	

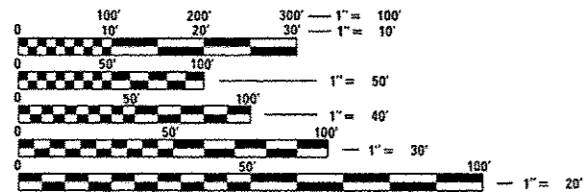
D-92-067-11



PROJECT ENDS  
STA. 693 + 00

SUPER STRUCTURE  
REPLACEMENT OVER  
INDIAN CREEK AT  
STA. 688 + 53.47  
SN: 037-0054

PROJECT BEGINS  
STA. 685 + 25



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

SQUAD LEADER - BRAD CUSHMAN (815)284-5996  
PROJECT ENGINEER - REBECCA MARRUFFO

CONTRACT NO. 64H02

HENRY COUNTY SECTION 10BR-1 FAP ROUTE 37 (US 34)

WETHERSFIELD TOWNSHIP SECTION 28

GROSS LENGTH = 775 LIN. FT. = 0.15 MILE  
NET LENGTH = 775 FT. = 0.15 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 8-4-2016  
*K. March*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Sept 30 2016  
*M. Adams*  
ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 2016  
*Ember Osman*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

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001006	DECIMAL OF AN INCH AND OF A FOOT
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420001-08	PAVEMENT JOINTS
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
421001-03	BAR REINFORCEMENT FOR CRC PAVEMENT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD, STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
542311-06	TRAVERSABLE PIPE GRATE
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS • 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS • 45 MPH
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# SUMMARY OF QUANTITIES

BRIDGE  
037-0054  
80% FED  
20% STATE  
0011

• CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF QUANTITIES			
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	81
20101000	TEMPORARY FENCE	FOOT	194
20200100	EARTH EXCAVATION	CU YD	1,670
• 25000210	SEEDING, CLASS 2A	ACRE	0.75
• 25000310	SEEDING, CLASS 4	ACRE	0.25
Δ 25000750	MOWING	ACRE	0.75
• 25100630	EROSION CONTROL BLANKET	SO YD	4,880
• 25100900	TURF REINFORCEMENT MAT	SO YD	426
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	900
28000305	TEMPORARY DITCH CHECKS	FOOT	120
28000400	PERIMETER EROSION BARRIER	FOOT	2,370
28000500	INLET & PIPE PROTECTION	EACH	1
28100107	STONE RIPRAP, CLASS A4	SO YD	33

• SPECIALTY ITEMS  
Δ 100 % STATE

# SUMMARY OF QUANTITIES

BRIDGE  
037-0054  
80% FED  
20% STATE  
0011

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF QUANTITIES			
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,960
28200200	FILTER FABRIC	SQ YD	1,993
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,143
31200500	STABILIZED SUB-BASE 4"	SQ YD	2,396
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,445
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	10,298
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	910
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	722
40600990	TEMPORARY RAMP	SQ YD	123
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,372
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	43
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	2,331
44000100	PAVEMENT REMOVAL	SQ YD	1,758

\* SPECIALTY ITEMS

# SUMMARY OF QUANTITIES

BRIDGE  
037-0054  
80% FED  
20% STATE  
0011

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF QUANTITIES			
44004000	PAVED DITCH REMOVAL	FOOT	219
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	175
48101200	AGGREGATE SHOULDERS, TYPE B	TON	627
48203020	HOT-MIX ASPHALT SHOULDERS, 5 3/4"	SQ YD	652
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50102400	CONCRETE REMOVAL	CU YD	74
50104400	CONCRETE HEADWALL REMOVAL	EACH	1
50104650	SLOPE WALL REMOVAL	SQ YD	115
50200100	STRUCTURE EXCAVATION	CU YD	266
50300100	FLOOR DRAINS	EACH	18
50300225	CONCRETE STRUCTURES	CU YD	109
50300255	CONCRETE SUPERSTRUCTURE	CU YD	262

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**\* SPECIALTY ITEMS**

FILE NAME *	USER NAME * cushmanbx	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11804EB1DINTEG\Illinois.gov\PW1007\Documents\1007_Offices\District 2\Projects\0205701100\Drawings\02057011-ht-500.dwg		PLANNED BY * GRDshaeis\02057011-ht-500.dwg	REVISED -			37	IOBR-1	HENRY	95	5
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	PLOT DATE * Jul-20-2016 01:24:30 PM	DATE -	REVISED -							



# SUMMARY OF QUANTITIES

BRIDGE
037-0054
80% FED
20% STATE
0011

• CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF QUANTITIES			
54260311	TRAVERSABLE PIPE GRATE	FOOT	21
54261336	CONCRETE END SECTION, STANDARD 542001, 36", 1:3	EACH	1
59000200	EPOXY CRACK INJECTION	FOOT	5
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	90
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	64
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1082
• 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200
• 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
• 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	475
63500105	DELINEATORS	EACH	6
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1

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\* SPECIALTY ITEMS

FILE NAME *	USER NAME = cushmarby	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Jul-29-2016 01:25:13 PM	DATE -	REVISED -				ILLINOIS FED. AID PROJECT					
Default				SCALE:							

# SUMMARY OF QUANTITIES

BRIDGE  
037-0054  
80% FED  
20% STATE  
0011

• CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF QUANTITIES			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1067
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	356
• 72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	31,925
• 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	68
• 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	140
• 78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	7
• <i>78200005</i>	<i>GUARDRAIL REFLECTORS</i> , TYPE A	EACH	8

B

**\* SPECIALTY ITEMS**



# SUMMARY OF QUANTITIES

BRIDGE  
037-0054  
80% FED  
20% STATE  
0011

• CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
	SUMMARY OF QUANTITIES		
• 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	4
• A2006914	TREE, QUERCUS PALUSTRIS (PIN OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7
X0323660	DROP BOX NO.1	EACH	1
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	183
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0004552	APPROACH SLAB REMOVAL	SO YD	140
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	195
* Z0054500	ROCK FILL	TON	42

10 \* SPECIALTY ITEMS

# GENERAL NOTES

The removal of Bituminous Surfacing less than 6 inch thickness not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base or a thickness of 6 inches or more on a flexible base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

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. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

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 1A. 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.

The subgrade on this project, exclusive of rock cut areas is scheduled to be improved to a 12" depth according to Mechanistic Pavement Design. The areas scheduled to be improved to a depth greater than 12" are estimated based on the original geotechnical investigation. The subgrade shall be processed in accordance with Article 301.04 of the Standard Specifications before the engineer shall determine the limits and the additional thickness of improvement required, if any. Any additional undercutting required after this evaluation shall be paid for as EARTH EXCAVATION.

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 equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

The existing hot-mix asphalt on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. This could be the entire entrance or tapered at the end depending on if the mainline is resurfaced or milled and resurfaced. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The drop off that occurs at entrance edges as a result of resurfacing of the entrance shall be corrected using aggregate shoulder material. This work shall be paid for by the TON for Aggregate Shoulders of the type specified in the plans.

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 day's production, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

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

This structure will retain the same number 037-0054.

Barrier Wall Reflectors Type B shall be installed on the top of bridge parapet walls. The markers, the color, and the spacing shall be according to Standard 782006, except the minimum is 2 per side.

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.

If, during the grinding or resurfacing operations, the existing mailboxes become a hindrance, the Contractor shall be required to carefully remove and reinstall the mailboxes as directed by the Engineer. This work shall be included in the contract unit price for the INCIDENTAL HOT-MIX ASPHALT SURFACING.

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.

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: One 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.

FILE NAME = 64H02.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES			FA	SECTION	COUNTY	TOTAL	SHEET
	DRAWN	REVISED -	FILE					10 BR-1	Henry	95	10	
	PLOT SCALE =	CHECKED -	REVISED -		FAP ROUTE 37 (US34)		CONTRACT NO.	64H02				
	PLOT DATE = 7/29/2016 8:32 AM	DATE = 7/29/2016 8:28 AM	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

# GENERAL NOTES

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 Roadside Management Specialist. 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.

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:

Cambridge Telephone (309) 944-8025      Ameren IP (309) 345-5173      Frontier Legacy (309) 853-6293

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.

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

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

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:

Mixture Uses(s):	Surface	Level Binder	Shoulders
PG:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	3.0 @ N50	3.0 @ N50	3.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 9.5 FG or IL 9.5	IL 9.5
Friction Aggregate	C	N/A	N/A
20 Year ESAL	0.2	0.2	N/A
Quality Management Program to be Used	QC/QA	QC/QA	QC/QA
Sublot Tonnage	N/A	N/A	N/A

Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement.

Tie the following to the existing concrete pavement		Length, size, and spacing of Tie Bars
Gutter or Curb & Gutter	Std. 606001	24" long No. 6 @ 24" centers
PCC Base Course	Std. 353001	24" long No. 6 @ 30" centers
PCC Pavement	Std. 420101	24" long No. 6 @ 30" centers

Tie bars to be installed in accordance with the applicable portions of Article 420.05(b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.

### Commitments

There is one potential bat roost tree in the project area. This tree will be shown on contract plans. This tree will not be impacted by project construction. The snow fence delineating the wetland will also protect this tree (see commitment #5).

This wetland will not be impacted during project construction.

The construction limits in the area of this wetland will be delineated with snow fence to avoid any impacts to the wetland.

The construction activities, including equipment and material storage or driving vehicles and equipment, shall not take place beyond the construction limits shown on the contract plans to avoid any impacts to the wetland.

# TYPICAL SECTIONS

STA. 685+25 - 687+36.67  
 STA. 689+70.27 - 692+99.20

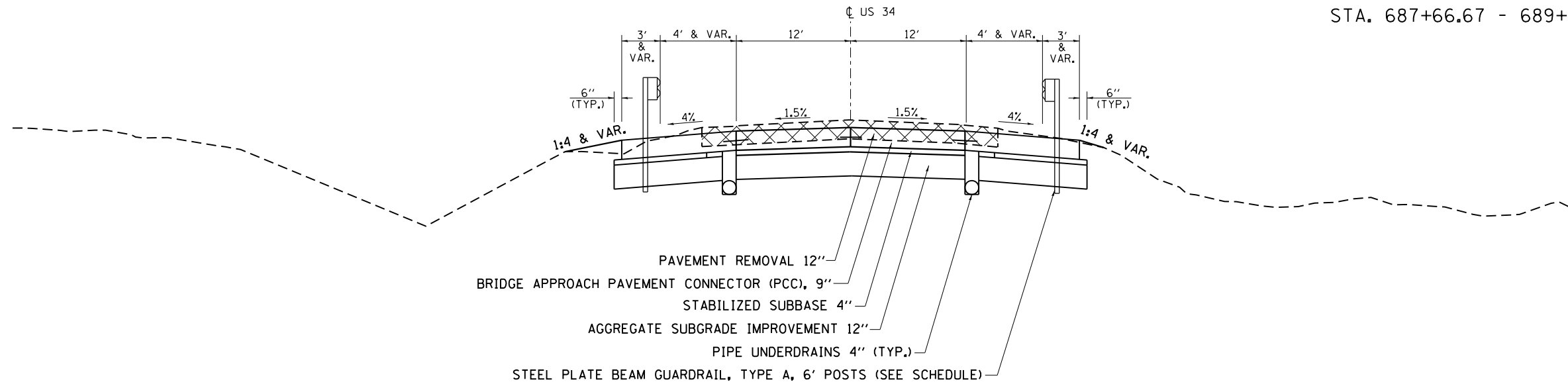
BRIDGE APPROACH PAVEMENT

STA. 687+36.67 - 687+66.67  
 STA. 689+40.27 - 689+70.27

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) (SEE HIGHWAY STD. 420401)

BRIDGE OMISSION

STA. 687+66.67 - 689+40.27



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

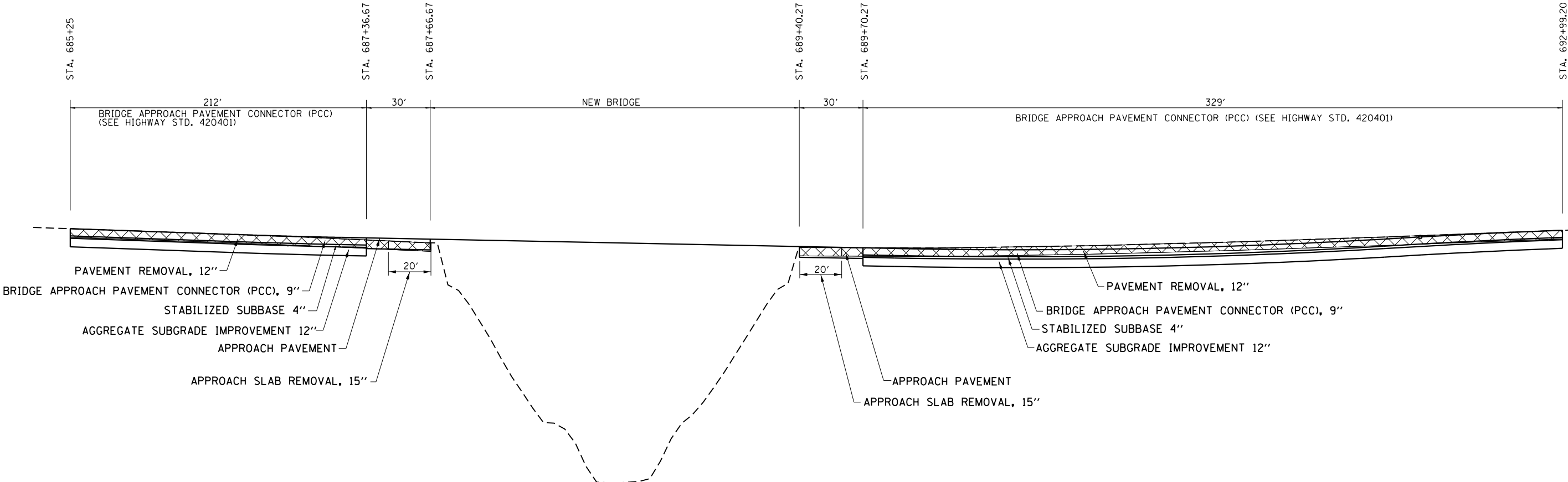
## TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	IOBR-1	HENRY	95	12
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTIONS

## CONNECTOR DETAIL



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

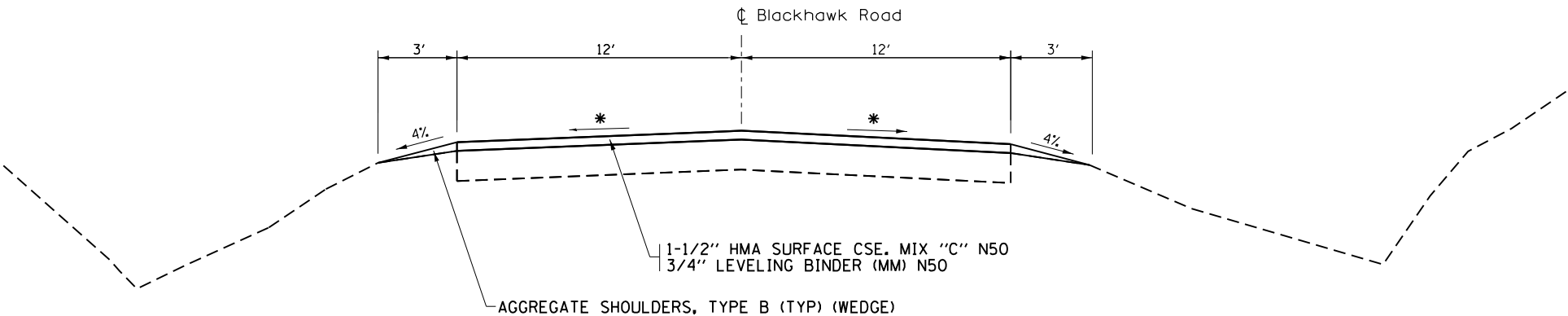
**TYPICAL SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	13
15			CONTRACT NO. 64H02	
ILLINOIS FED. AID PROJECT				

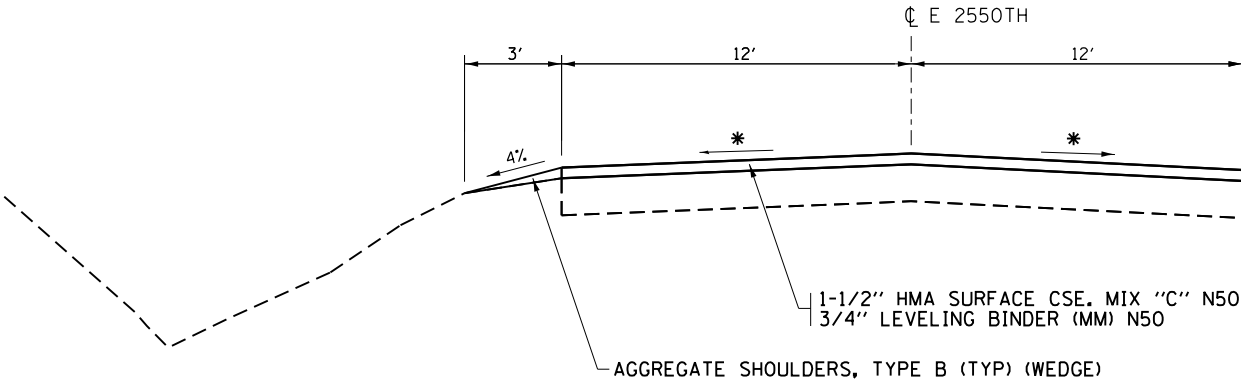
# TYPICAL SECTIONS

BLACKHAWK RD.  
STA. 0+00 - 50+94



\* MATCH EXISTING CROSS SLOPE  
112 LBS/SQ YD/IN

E. 2250TH ST.  
STA. 7+43.57 - 9+87.35



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## TYPICAL SECTIONS

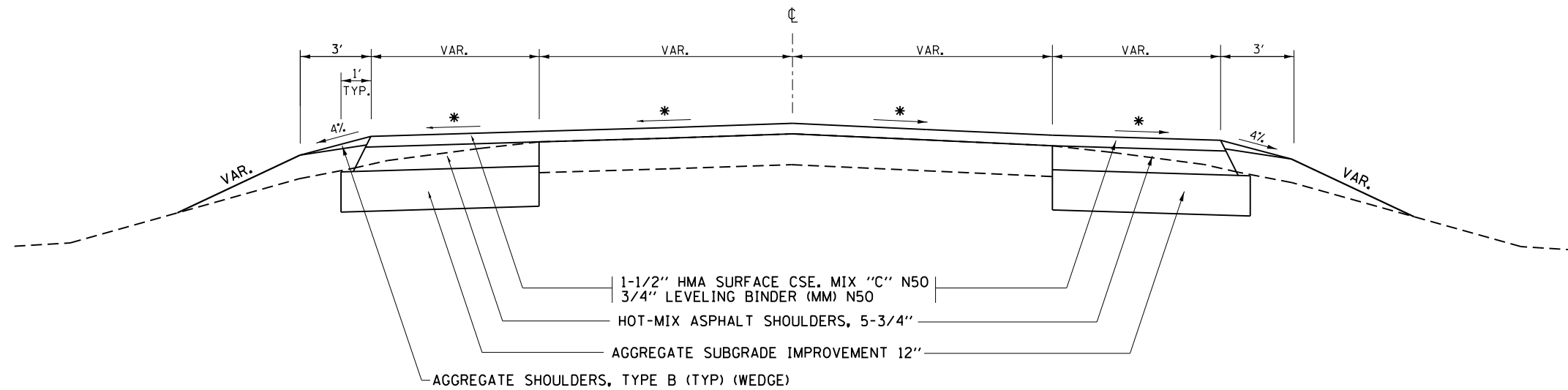
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H02	

# TYPICAL SECTIONS

## BLACKHAWK WEST

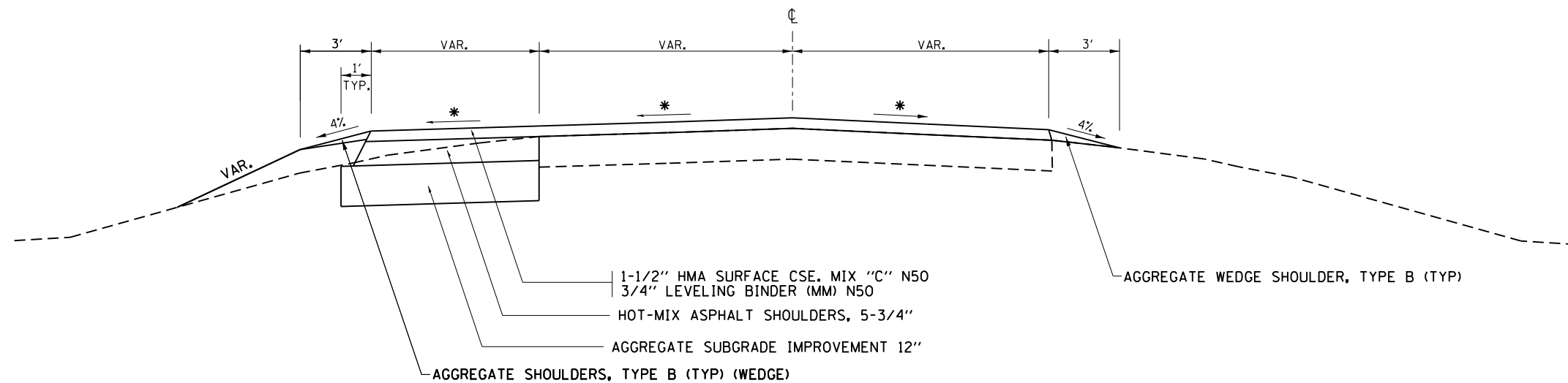
STA. 8+35.67 - 9+87.35  
 STA. 20+10.99 - 22+03.77



\* MATCH EXISTING CROSS SLOPE

## BLACKHAWK EAST

STA. 28+53.26 - 29+84.74

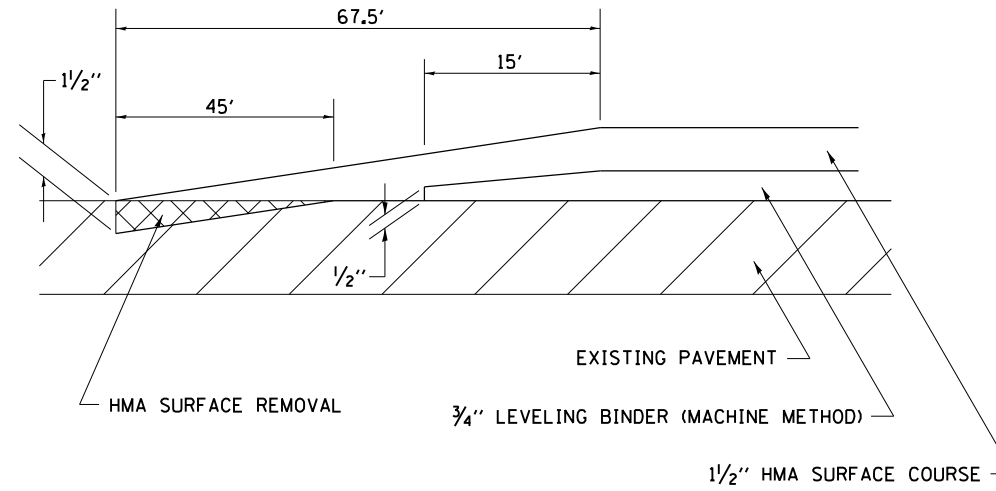


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pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\020670\DRAWING\CAD\Sheets\020671\sh-typical.dwg	DESIGNED -	REVISED -	37			IOBR-1	HENRY	95	15	
PLOT SCALE = 100.0000' / 1" .	CHECKED -	REVISED -	CONTRACT NO. 64H02							
PLOT DATE = Jul-28-2016 01:33:09 PM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

# TYPICAL SECTIONS

STA. 50+94 - 51+61 (BLACKHAWK RD.)  
 STA. 7+44 - 8+11 (E 2550TH)  
 STA. 9+19 - 9+87 (E 2550TH)  
 STA. 39+07 (COMMERCIAL ENTRANCE BLACKHAWK RD.)

TYPICAL TAPER



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Jul-28-2016 01:33:34 PM	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			



# SCHEDULE OF QUANTITIES

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)					
	<u>LOCATION</u>				<u>UNITS</u>	<u>COMMENTS</u>
	STA 686+00	58.5'	RT		15	
	STA 686+54.38	57.9'	RT		15	
	STA 686+79.89	62.3'	RT		11	
	STA 687+58	48.6'	LT		8	
	STA 687+58	51.6	LT		8	
	STA 691+90.27	42.3'	LT		12	
	STA 691+90.27	42.3'	LT		12	
				TOTAL	81	
20101000	TEMPORARY FENCE					
	<u>LOCATION</u>				<u>FOOT</u>	<u>COMMENTS</u>
	STA 685+67.76	TO 687+56.71	LT		194	
				TOTAL	194	
25000210	SEEDING, CLASS 2A					
	<u>LOCATION</u>				<u>ACRE</u>	<u>COMMENTS</u>
	STA 685+25	TO 687+75	LT & RT	US 34	0.2	
	STA 689+50	TO 693+00	LT & RT	US 34	0.1	
	STA 7+50	TO 9+50	LT & RT	E.2550TH	0.1	
	STA 20+25	TO 22+50	LT & RT	BLACKHAWK WEST	0.2	
	STA 28+50	TO 29+50	LT & RT	BLACKHAWK EAST	0.1	
				TOTAL	0.75	
25000750	MOWING					
	<u>LOCATION</u>				<u>ACRE</u>	<u>COMMENTS</u>
	STA 685+25	TO 687+75	LT & RT	US 34	0.2	
	STA 689+50	TO 693+00	LT & RT	US 34	0.1	
	STA 7+50	TO 9+50	LT & RT	E.2550TH	0.1	
	STA 20+25	TO 22+50	LT & RT	BLACKHAWK WEST	0.2	
	STA 28+50	TO 29+50	LT & RT	BLACKHAWK EAST	0.1	
				TOTAL	0.75	
25000310	SEEDING, CLASS 4					
	<u>LOCATION</u>				<u>ACRE</u>	<u>COMMENTS</u>
	STA 685+25	TO 687+75	LT & RT	US 34	0.25	
				TOTAL	0.25	
25100630	EROSION CONTROL BLANKET					
	<u>LOCATION</u>				<u>SQ_YD</u>	<u>COMMENTS</u>
	STA 685+25	TO 687+75	LT & RT	US 34	2375	
	STA 689+50	TO 693+00	LT & RT	US 34	925	
	STA 7+50	TO 9+50	LT & RT	E.2550TH	425	
	STA 20+25	TO 22+50	LT & RT	BLACKHAWK WEST	950	
	STA 28+50	TO 29+50	LT & RT	BLACKHAWK EAST	205	
				TOTAL	4880	
25100900	TURF REINFORCEMENT MAT					
	<u>LOCATION</u>				<u>SQ_YD</u>	<u>COMMENTS</u>
	STA 685+25	TO 687+75	RT		402	TRM SHOULD BE PLACED AT THE SAME ELEVATION ON THE FORESLOPE AND BACKSLOPE FROM CENTER LINE OF DITCH Width 14'
	STA 8+00	LT E. 2550TH			24	
				TOTAL	426	17' L x 14' W WIDTH 14'
28000250	TEMPORARY EROSION CONTROL SEEDING					
	<u>LOCATION</u>				<u>POUND</u>	<u>COMMENTS</u>
	STA 685+25	TO 692+99.20	LT & RT		900	ESTIMATED QUANTITY (PROJECT LIMITS)
				TOTAL	900	



# SCHEDULE OF QUANTITIES

50104400	CONCRETE HEADWALL REMOVAL <u>LOCATION</u> STA 687+56                      LT	EACH 1 <hr style="width: 50%; margin: 0 auto;"/> 1	TOTAL	
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36" <u>LOCATION</u> STA 7+86                      32' LT & 39' RT @ 30° SKEW	EQOI 71 <hr style="width: 50%; margin: 0 auto;"/> 71	TOTAL	
54260311	TRAVERSABLE PIPE GRATE <u>LOCATION</u> STA 7+86                      RT STA 8+02                      LT	EQOI 12-10" 8' <hr style="width: 50%; margin: 0 auto;"/> 20-10"	TOTAL	COMMENTS 36" PIPE CULVERT END SECTION - 1@12'-10" DROP BOX NO.1 - 3 @ 2'-8"
54261336	CONCRETE END SECTION, STANDARD 542001, 36", 1:3 <u>LOCATION</u> STA 7+86                      RT	EACH 1 <hr style="width: 50%; margin: 0 auto;"/> 1	TOTAL	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS <u>LOCATION</u> STA 687+36.67              LT & RT STA 690+50                      LT & RT	EACH 2 <hr style="width: 50%; margin: 0 auto;"/> 2 4	TOTAL	COMMENTS
60108100	PIPE UNDERDRAINS 4" (SPECIAL) <u>LOCATION</u> STA 687+36.67              LT & RT STA 690+50                      LT & RT	EQOI 34 <hr style="width: 50%; margin: 0 auto;"/> 30 64	TOTAL	COMMENTS
60108204	PIPE UNDERDRAINS, TYPE 2, 4" <u>LOCATION</u> STA 685+25                      TO    687+36.67              LT & RT STA 689+70.27                  TO    692+99.20              LT & RT	EQOI 424 <hr style="width: 50%; margin: 0 auto;"/> 658 1082	TOTAL	COMMENTS
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS <u>LOCATION</u> STA 686+24.99              TO    686+99.55              RT STA 686+92.78              TO    687+17.78              LT STA 689+89.17              TO    690+14.17              RT STA 690+08.25              TO    690+83.25              LT	EQOI 75 25 25 <hr style="width: 50%; margin: 0 auto;"/> 75 200	TOTAL	COMMENTS
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6 <u>LOCATION</u> STA 686+99.55              TO    687+43.04              RT STA 687+17.78              TO    687+61.51              LT STA 689+45.42              TO    689+89.17              RT STA 689+64.50              TO    690+08.25              LT	EACH 1 1 1 <hr style="width: 50%; margin: 0 auto;"/> 1 4	TOTAL	COMMENTS

# SCHEDULE OF QUANTITIES

63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED					
	<u>LOCATION</u>				<u>EACH</u>	<u>COMMENTS</u>
	STA 685+74.48	TO	686+24.29	RT	1	
	STA 686+42.78	TO	686+92.78	LT	1	
	STA 690+14.17	TO	690+63.94	RT	1	
	STA 690+83.25	TO	691+32.98	LT	1	
					1	
	TOTAL				4	
63200310	GUARDRAIL REMOVAL					
	<u>LOCATION</u>				<u>FOOT</u>	
	STA 685+94.55	TO	687+34.81	RT	140	
	STA 689+44.99	TO	690+40.42	RT	95	
	STA 686+64.26	TO	687+59.60	LT	95	
	STA 689+63.76	TO	691+09.15	LT	145	
					145	
	TOTAL				475	
63500105	DELINEATORS					
	<u>LOCATION</u>				<u>EACH</u>	
	STA 685+25	TO	692+99.20	US 34 LT & RT	4	
	STA 7+87			E. 2550TH LT & RT	2	
					2	
	TOTAL				6	
66700305	PERMANENT SURVEY MARKERS, TYPE II					
	<u>LOCATION</u>				<u>EACH</u>	<u>COMMENTS</u>
	TO BE DETERMINED IN FIELD				1	LOCATION DETERMINED BY DISTRICT OFFICE-CHIEF OF SURVEYS
	TOTAL				1	
70200100	SHORT TERM PAVEMENT MARKING					
	<u>LOCATION</u>				<u>FOOT</u>	<u>COMMENTS</u>
	STA 0+00	TO	50+94	BLACKHAWK RD	1019	TWO APPLICATIONS
	STA 7+44	TO	9+87	E. 2550TH	49	TWO APPLICATIONS
					49	
	TOTAL				1067	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL					
	<u>LOCATION</u>				<u>SQ FT</u>	
	STA 0+00	TO	50+94	BLACKHAWK RD	340	
	STA 7+44	TO	9+87	E. 2550TH	16	
					16	
	TOTAL				356	
72501000	TERMINAL MARKER - DIRECT APPLIED					
	<u>LOCATION</u>				<u>EACH</u>	
	STA 685+74.29			RT	1	
	STA 686+42.78			LT	1	
	STA 690+64.17			RT	1	
	STA 691+32.64			LT	1	
					1	
	TOTAL				4	
78001110	PAINT PAVEMENT MARKING - LINE 4"					
	<u>LOCATION</u>				<u>FOOT</u>	<u>COMMENTS</u>
	STA 685+25	TO	692+99.20	US 34 Yellow (2 Apl.)	387	SKIP DASH CENTER
	STA 20+35	TO	21+96	BLACKHAWK RD Yellow (2 Apl.)	1,104	DOUBLE SOLID ISLAND
	STA 0+00	TO	48+10	BLACKHAWK RD Yellow (2 Apl.)	2,405	SKIP DASH CENTER
	STA 0+00	TO	20+24	BLACKHAWK RD Yellow (2 Apl.)	4,048	SINGLE SOLID NO PASSING
	STA 7+43.57	TO	9+87	E. 2550TH ST. Yellow (2 Apl.)	122	SKIP DASH CENTER
					122	
	TOTAL YELLOW:				8,066	
	STA 685+25	TO	692+99.20	US 34 WHITE (2 Apl.)	3,097	LT & RT Edge Lines
	STA 0+00	TO	48+10	BLACKHAWK RD White (2 Apl.)	19,240	LT & RT Edge Lines
	STA 7+43.57	TO	9+87	E. 2550TH ST. White (2 Apl.)	1,522	LT & RT Edge Lines
					1,522	
	TOTAL WHITE:				23,859	
	TOTAL				31,925	

# SCHEDULE OF QUANTITIES

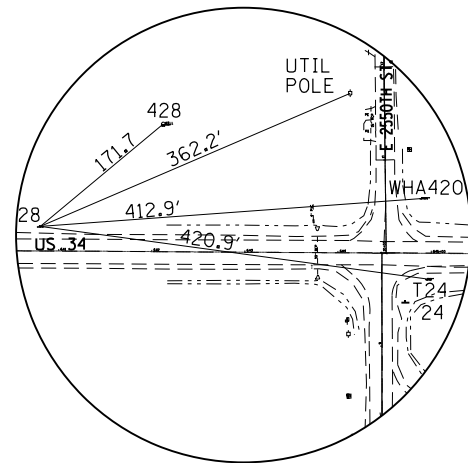
78001150	PAINT PAVEMENT MARKING - LINE 12"										
	LOCATION										
	STA 20+48	TO	21+89	YELLOW	(2 Apl.)	FOOT	68	ISLAND MEDIAN			
					TOTAL		68				
78001180	PAINT PAVEMENT MARKING - LINE 24"										
	LOCATION										
	STA 9+57		E. 2550TH ST.	WHITE	(2 Apl.)	FOOT	52	N.B. STOP BAR			
	STA 20+41		BLACKHAWK RD.	WHITE	(2 Apl.)		58	W.B. STOP BAR			
	STA 29+57		BLACKHAWK RD.	WHITE	(2 Apl.)		30	E.B. STOP BAR			
					TOTAL		140				
78100100	RAISED REFLECTIVE PAVEMENT MARKERS										
	LOCATION										
	STA 685+74.48	TO	690+63.94			EACH	7	TWO-WAY AMBER @ 80' CENTERS			
					TOTAL		7				
78200410	GUARDRAIL MARKERS, TYPE A										
	LOCATION										
	STA 686+42.78	TO	691+32.98			EACH	4				
	STA 685+74.48	TO	690+63.94	LT			4				
				RT			4				
					TOTAL		8				
78200520	BARRIER WALL MARKERS, TYPE B										
	LOCATION										
	STA 687+42.43	TO	689+64.50			EACH	4	2 MARKERS PER SIDE			
				LT & RT			4				
					TOTAL		4				
X0323660	DROP BOX NO.1										
	LOCATION										
	STA 8+02		LT			EACH	1				
					TOTAL		1				
Z0004552	APPROACH SLAB REMOVAL										
	LOCATION										
	STA 687+44.68	TO	687+65.49			SO_YD	70				
	STA 689+41.41	TO	689+62.04				70				
					TOTAL		140				
Z0054500	ROCK FILL										
	LOCATION										
	STA 7+86		E. 2550TH	12"		INCHES	AREA SQ_FT				
							554				
							42				
					TOTAL		42				

# EARTHWORK /PAVING SCHEDULE

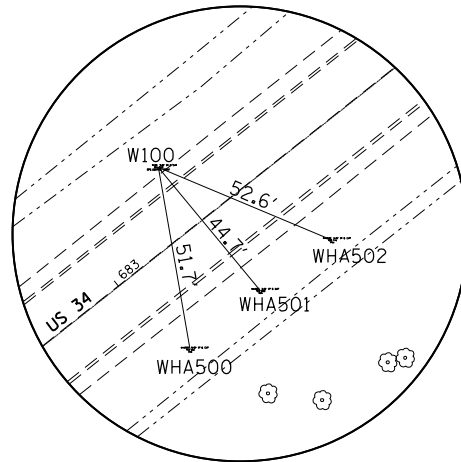
LOCATION	20200100			
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
	(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-) (CU YD)
<b>US 34</b>				
685+25.00 TO 691+00.00	1013.5	760.1	214.4	545.7
691+00.00 TO 693+00.00	413.5	310.1	11.9	298.2
<b>E 2250TH</b>				
7+43.00 TO 9+50.00	140.5	105.4	35.3	70.1
<b>BLACKHAWK RD WEST</b>				
20+25.00 TO 22+03.77	75.5	56.6	103.8	-47.2
<b>BLACKHAWK RD EAST</b>				
28+53.00 TO 29+84.74	25.9	19.4	10.3	9.1
<b>TOTALS</b>	1668.9	1251.7	375.7	876.0

Location	Remarks	Length	Proposed Surface		31200500	40600275	40600290	40600982	40600990	42000080	40603310	40600625	40800050	48101200	48203020		
			Width	Sq Yd	Stabilized Sub-Base 4"	Bituminous Materials (Prime Coat)	Bituminous Materials (Tack Coat)	HMA Surface Removal Butt Joint	Temp Ramp	Pavement Connector PCC for Bridge Approach	HMA Surface Cse. Mix "C" N50	Leveling Binder (Machine Method) N50	Incidental Hot-Mix Asphalt Surfacing	Aggregate Shoulders, Type B	HMA Shoulders, 5-3/4"		
					Sq Yd	POUND	POUND	Sq Yd	Sq Yd	Sq Yd	Sq Yd	Ton	Ton	Ton	Ton	Sq Yd	
<b>Mainline</b>																	
<b>US 34</b>																	
Lt & Rt Sta	685 + 25 - 687 + 37	212	VAR	957	983	2009				957	80	54					
Lt & Rt Sta	689 + 70 - 692 + 99	329	VAR	1374	1413	2970				1374							
<b>Blackhawk Rd.</b>																	
Lt & Rt Sta	0 + 0 - 50 + 94	5094	24	13583			9168				1141	761		580			
Lt & Rt Sta	50 + 94 - 51 + 61	Butt Joint	67.5	VAR	329		222	267	54		28	18					
<b>E 2550 TH</b>																	
Lt & Rt Sta	7 + 44 - 8 + 11	Butt Joint	67.6	24	180		122	113	13		15	10		8			
Lt & Rt Sta	8 + 11 - 9 + 19		108	24	289		195				36	16		12			
Lt & Rt Sta	9 + 19 - 9 + 87	Butt Joint	68.0	VAR	265		179	205	41		22	15		8			
<b>Widening</b>																	
<b>Blackhawk Rd. West</b>																	
Rt Sta	20 + 11 - 22 + 4		193	VAR	229		515	155			19	13			229		
<b>Blackhawk Rd. East</b>																	
Lt Sta	28 + 53 - 29 + 85		131	VAR	78		176	53			7	4			78		
<b>E 2550 TH</b>																	
Lt & Rt Sta	8 + 36 - 9 + 87		152	VAR	345		776	79			29	19			345		
<b>Entrances</b>																	
<b>Blackhawk Rd.</b>																	
Rt Sta	12 + 87	PE/BIT			88		40						14	6			
Rt Sta	33 + 73	PE/BIT			53		24						8	4			
Rt Sta	39 + 7	CE/BIT			137		62	137	15				21	10			
<b>TOTALS</b>							2,396	6,445	10,298	722.0	123.0	2,331	1,378	910	43	627	652

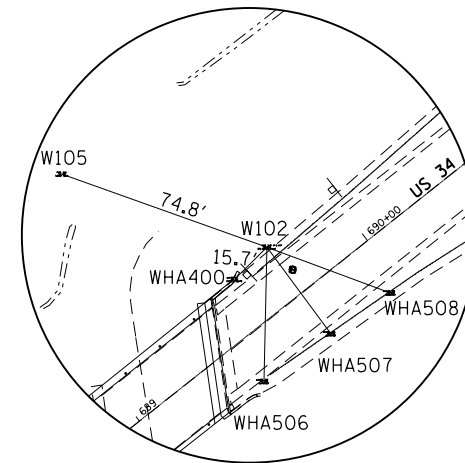
# HORIZONTAL & VERTICAL CONTROL



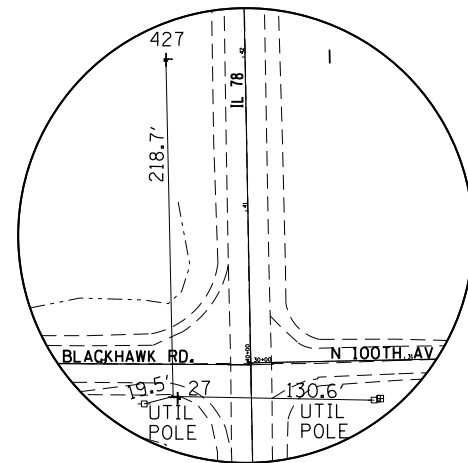
HORIZONTAL CONTROL POINT NO. 28



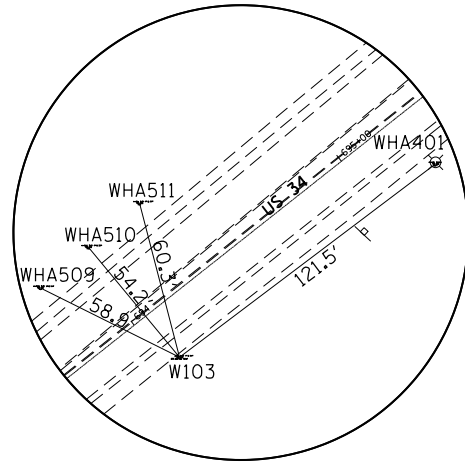
HORIZONTAL CONTROL POINT NO. W100



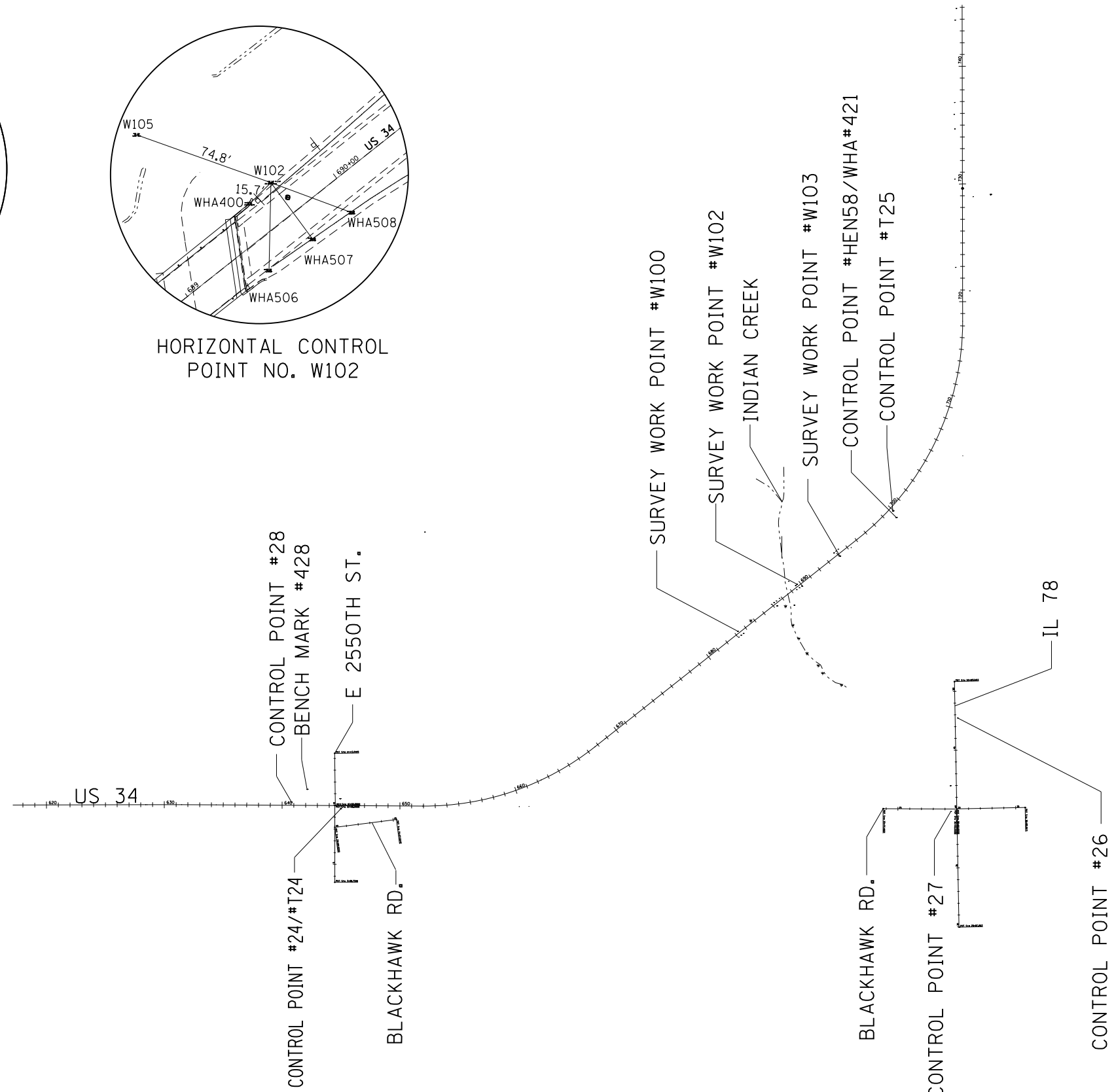
HORIZONTAL CONTROL POINT NO. W102



HORIZONTAL CONTROL POINT NO. 27



HORIZONTAL CONTROL POINT NO. W103



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
pw\1\084EBIDINTEG.illinois.gov\PIWIDOTDocuments\DOT Offices\District 2\Projects\0206711-sht-ATB.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1".	CHECKED -	REVISED -
	PLOT DATE = Jul-28-2016 01:39:43 PM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL SHEETS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	23
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	

# HORIZONTAL & VERTICAL CONTROL

Chain EXUS34 contains:  
 5 210 220 CUR 200 20 21 22 CUR 270 CUR 280 23 CUR 290 CUR 300 CUR 310 CUR 320 -  
 323 CUR 330 CUR 340 1199013

Beginning chain EXUS34 description  
 =====

Point 5 N 1,638,723.0150 E 2,327,884.4250 Sta 343+11.1907

Course from 5 to 210 90° 19' 51.8481" Dist 1,629.0738'

Point 210 N 1,638,713.6019 E 2,329,513.4716 Sta 359+40.2645

Course from 210 to 220 59° 22' 00.7741" Dist 227.7355'

Point 220 N 1,638,829.6420 E 2,329,709.4261 Sta 361+68.0000

Course from 220 to PC 200 149° 37' 10.8170" Dist 767.2565'

Curve Data  
 -----

**Curve 200**

P.I. Station 371+07.7471 N 1,638,018.9340 E 2,330,184.6915  
 Delta = 59° 19' 16.8837" (LT)  
 Degree = 18° 54' 58.6881"  
 Tangent = 172.4906'  
 Length = 313.5991'  
 Radius = 302.8910'  
 External = 45.6717'  
 Long Chord = 299.7788'  
 Mid. Ord. = 39.6874'  
 P.C. Station 369+35.2565 N 1,638,167.7395 E 2,330,097.4566  
 P.T. Station 372+48.8556 N 1,638,018.0360 E 2,330,357.1798  
 C.C. N 1,638,320.9229 E 2,330,358.7568

Course from PT 200 to 20 90° 17' 53.9333" Dist 2,601.6052'

Point 20 N 1,638,004.4906 E 2,332,958.7497 Sta 398+50.4608

Course from 20 to 21 90° 03' 14.1162" Dist 1,544.9085'

Point 21 N 1,638,003.0366 E 2,334,503.6576 Sta 413+95.3693

Course from 21 to 22 90° 09' 55.0321" Dist 5,627.2490'

Point 22 N 1,637,986.8032 E 2,340,130.8832 Sta 470+22.6184

Course from 22 to PC 270 90° 16' 16.7335" Dist 5,895.6050'

Curve Data  
 -----

**Curve 270**

P.I. Station 531+26.9068 N 1,637,957.8974 E 2,346,235.1032  
 Delta = 1° 22' 14.4750" (LT)  
 Degree = 0° 19' 42.3436"  
 Tangent = 208.6834'  
 Length = 417.3470'  
 Radius = 17,445.4200'  
 External = 1.2481'  
 Long Chord = 417.3370'  
 Mid. Ord. = 1.2480'  
 P.C. Station 529+18.2234 N 1,637,958.8856 E 2,346,026.4221  
 P.T. Station 533+35.5704 N 1,637,961.9013 E 2,346,443.7482  
 C.C. N 1,655,404.1100 E 2,346,109.0317

Course from PT 270 to PC 280 88° 54' 02.2584" Dist 513.1828'

Curve Data  
 -----

**Curve 280**

P.I. Station 540+92.8020 N 1,637,976.4300 E 2,347,200.8404  
 Delta = 1° 20' 39.7763" (RT)  
 Degree = 0° 16' 31.6046"  
 Tangent = 244.0488'  
 Length = 488.0752'  
 Radius = 20,801.1139'  
 External = 1.4316'  
 Long Chord = 488.0640'  
 Mid. Ord. = 1.4315'  
 P.C. Station 538+48.7532 N 1,637,971.7475 E 2,346,956.8366  
 P.T. Station 543+36.8284 N 1,637,975.3864 E 2,347,444.8870  
 C.C. N 1,617,174.4626 E 2,347,355.9370

Course from PT 280 to 23 90° 14' 42.0347" Dist 3,274.0059'

Point 23 N 1,637,961.3860 E 2,350,718.8630 Sta 576+10.8343

Course from 23 to PC 290 90° 04' 38.1051" Dist 2,127.6287'

Curve Data  
 -----

**Curve 290**

P.I. Station 600+90.9184 N 1,637,958.0421 E 2,353,198.9449  
 Delta = 0° 15' 50.3793" (LT)  
 Degree = 0° 02' 14.8229"  
 Tangent = 352.4554'  
 Length = 704.9096'  
 Radius = 152,989.5000'  
 External = 0.4060'  
 Long Chord = 704.9090'  
 Mid. Ord. = 0.4060'  
 P.C. Station 597+38.4630 N 1,637,958.5173 E 2,352,846.4897  
 P.T. Station 604+43.3726 N 1,637,959.1909 E 2,353,551.3984  
 C.C. N 1,790,947.8783 E 2,353,052.7642

Course from PT 290 to PC 300 89° 48' 47.7259" Dist 2,410.8054'

Curve Data  
 -----

**Curve 300**

P.I. Station 631+47.8838 N 1,637,968.0056 E 2,356,255.8953  
 Delta = 0° 32' 39.9643" (RT)  
 Degree = 0° 05' 33.6637"  
 Tangent = 293.7058'  
 Length = 587.4072'  
 Radius = 61,818.1818'  
 External = 0.6977'  
 Long Chord = 587.4050'  
 Mid. Ord. = 0.6977'  
 P.C. Station 628+54.1780 N 1,637,967.0484 E 2,355,962.1910  
 P.T. Station 634+41.5852 N 1,637,966.1721 E 2,356,549.5954  
 C.C. N 1,576,149.1949 E 2,356,163.6733

Course from PT 300 to PC 310 90° 21' 27.6901" Dist 1,750.7954'

Curve Data  
 -----

**Curve 310**

P.I. Station 660+13.7958 N 1,637,950.1141 E 2,359,121.7558  
 Delta = 38° 42' 24.6970" (LT)  
 Degree = 2° 27' 00.0122"  
 Tangent = 821.4151'  
 Length = 1,579.8697'  
 Radius = 2,338.6000'  
 External = 140.0635'  
 Long Chord = 1,549.9978'  
 Mid. Ord. = 132.1488'  
 P.C. Station 651+92.3806 N 1,637,955.2421 E 2,358,300.3567  
 P.T. Station 667+72.2503 N 1,638,459.7630 E 2,359,765.9459  
 C.C. N 1,640,293.7965 E 2,358,314.9562

Course from PT 310 to PC 320 51° 39' 02.9931" Dist 2,837.7101'

Curve Data  
 -----

**Curve 320**

P.I. Station 707+53.6084 N 1,640,930.0056 E 2,362,888.3029  
 Delta = 51° 44' 56.9019" (LT)  
 Degree = 2° 25' 47.7704"  
 Tangent = 1,143.6480'  
 Length = 2,129.6501'  
 Radius = 2,357.9129'  
 External = 262.7137'  
 Long Chord = 2,057.9981'  
 Mid. Ord. = 236.3771'  
 P.C. Station 696+09.9604 N 1,640,220.4267 E 2,361,991.4036  
 P.T. Station 717+39.6105 N 1,642,073.6519 E 2,362,886.3406  
 C.C. N 1,642,069.6062 E 2,360,528.4312

End Region 1  
 Equation: Sta 717+39.6105 (BK) = Sta 718+34.6840 (AH) -----  
 Begin Region 2

Point 323 N 1,642,073.6519 E 2,362,886.3406 Sta 718+34.6840

Course from 323 to PC 330 359° 54' 06.0912" Dist 5,726.8738'

Curve Data  
 -----

**Curve 330**

P.I. Station 781+82.8494 N 1,648,421.8080 E 2,362,875.4485  
 Delta = 0° 15' 08.6325" (LT)  
 Degree = 0° 01' 13.1246"  
 Tangent = 621.2916'  
 Length = 1,242.5812'  
 Radius = 282,073.1000'  
 External = 0.6842'  
 Long Chord = 1,242.5802'  
 Mid. Ord. = 0.6842'  
 P.C. Station 775+61.5578 N 1,647,800.5173 E 2,362,876.5145  
 P.T. Station 788+04.1390 N 1,649,043.0879 E 2,362,871.6456  
 C.C. N 1,647,316.5370 E 2,080,803.8297

Course from PT 330 to PC 340 359° 38' 57.4587" Dist 3,069.2077'

Curve Data  
 -----

**Curve 340**

P.I. Station 829+68.5463 N 1,653,207.4172 E 2,362,846.1555  
 Delta = 0° 55' 34.6956" (RT)  
 Degree = 0° 02' 32.2448"  
 Tangent = 1,095.1996'  
 Length = 2,190.3515'  
 Radius = 135,482.3600'  
 External = 4.4266'  
 Long Chord = 2,190.3276'  
 Mid. Ord. = 4.4264'  
 P.C. Station 818+73.3467 N 1,652,112.2381 E 2,362,852.8592  
 P.T. Station 840+63.6981 N 1,654,302.5615 E 2,362,857.1578  
 C.C. N 1,652,941.5168 E 2,498,332.6812

Course from PT 340 to 1199013 0° 34' 32.1543" Dist 2,697.7741'

Point 1199013 N 1,657,000.1995 E 2,362,884.2594 Sta 867+61.4723

=====

Ending chain EXUS34 description

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HORIZONTAL &amp; VERTICAL CONTROL SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\02067\DRAWING\GAD\Sheets\0206711-sht-AT8.dgn		CHECKED -	REVISED -		37	IOBR-1	HENRY	95	24			
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 64H02				
PLOT DATE = Jul-28-2016 01:39:58 PM					ILLINOIS FED. AID PROJECT							



# HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
24	1637931.8002	2357605.3854	789.4899	EXUS34	644+97.5693	27.78' RT	GPS CONTROL POINT, PIN
HEN58	1640406.5495	2362322.5640	754.4388	EXUS34	699+73.0196	88.4456' RT	VERTICAL CHECK, DISK
26	1638703.3151	2362843.8075	742.0796	EXUS34	693+37.1579	1718.6619' RT	GPS CONTROL POINT, PIN
27	1637909.0411	2362785.9515	740.6323	EXUS34	687+98.9756	2305.6698' RT	GPS CONTROL POINT, PIN
28	1637988.5708	2357188.2725	792.8627	EXUS34	640+80.1101	26.3855' LT	GPS CONTROL POINT, PIN
T24	1637931.7779	2357605.3538	789.5687	EXUS34	644+97.5378	27.8025' RT	GPS CONTROL POINT, PIN
T25	1640462.1130	2362293.9580	760.9460	EXUS34	699+94.0572	29.7888' RT	GPS CONTROL POINT, PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
W100	1639440.8674	2360975.1805	754.9200	EXUS34	683+29.3140	19.1531' LT	GPS CONTROL POINT, PIN
W102	1639839.6923	2361478.4280	750.6690	EXUS34	689+71.4348	19.6882' LT	GPS CONTROL POINT, PIN
W103	1640077.9455	2361843.8771	753.3530	EXUS34	694+05.8608	20.2069' RT	GPS CONTROL POINT, PIN
W105	1639864.8385	2361407.9621	734.0199	EXUS34	689+31.7743	83.1296' LT	SURVEY WORK POINT, NAIL

REFERENCE TIES						
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
WHA500	1639389.9750	2360984.0590	EXUS34	683+04.7006	26.2677' RT	PIN, PHYSICAL TIES
WHA501	1639406.3773	2361003.6805	EXUS34	683+30.2655	25.5785' RT	PIN, PHYSICAL TIES
WHA502	1639420.5115	2361023.7020	EXUS34	683+54.7369	26.9162' RT	PIN, PHYSICAL TIES
WHA506	1639793.4743	2361477.4217	EXUS34	689+41.9695	15.9337' RT	GUARDPOST, SHINER
WHA507	1639809.8999	2361500.4676	EXUS34	689+70.2344	17.3509' RT	GUARDPOST, SHINER
WHA508	1639823.9136	2361521.0259	EXUS34	689+95.0520	19.1162' RT	GUARDPOST, SHINER
WHA509	1640104.2922	2361791.1462	EXUS34	693+80.8538	33.1724' LT	PIN, PHYSICAL TIES
WHA510	1640119.7116	2361809.2892	EXUS34	694+04.6494	34.0081' LT	PIN, PHYSICAL TIES
WHA511	1640136.3348	2361828.7030	EXUS34	694+30.1884	34.9994' LT	PIN, PHYSICAL TIES

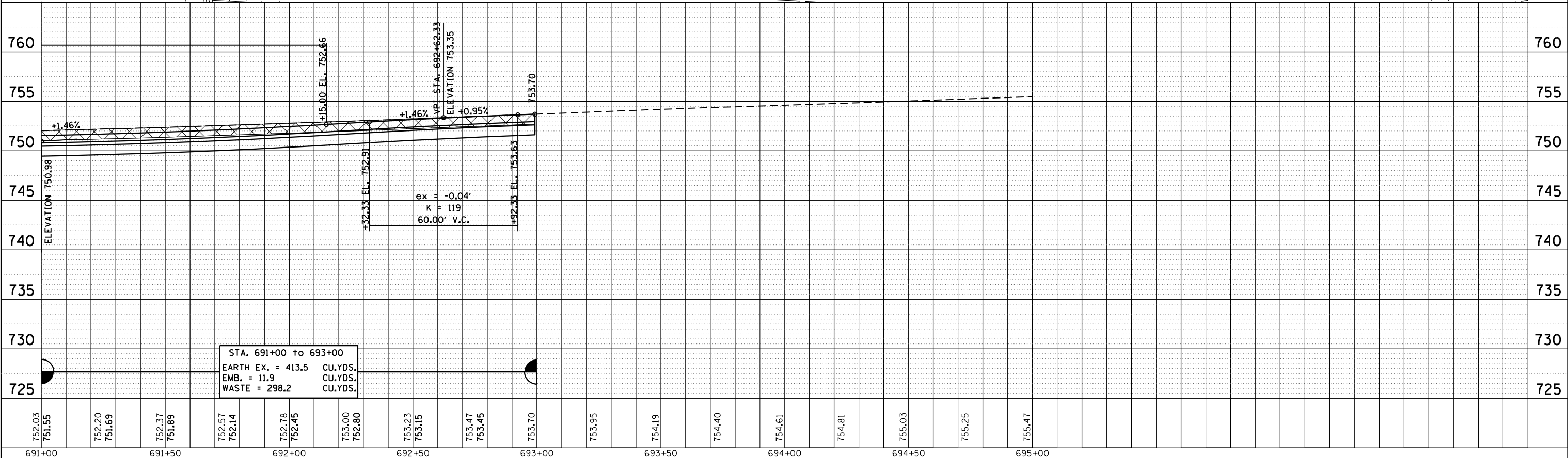
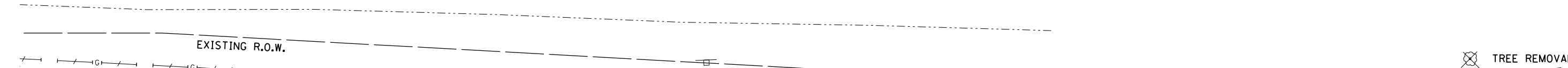
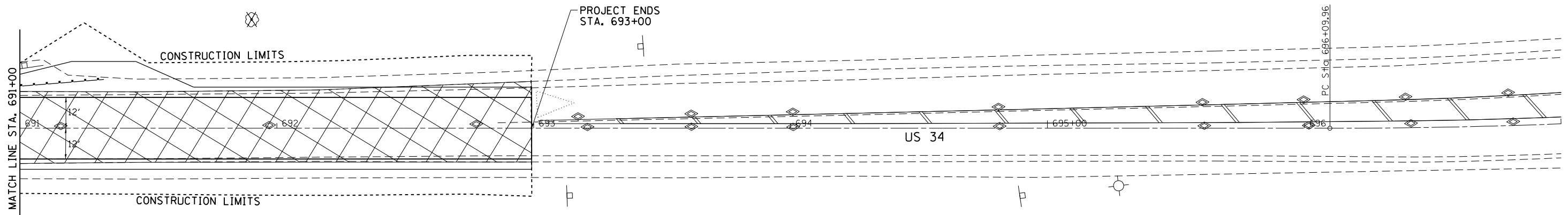
CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
EXUS34	200	200	201	202	203
EXUS34	270	270	271	272	273
EXUS34	280	280	281	282	283
EXUS34	290	290	291	292	293
EXUS34	300	300	301	302	303
EXUS34	310	310	311	312	313
EXUS34	320	320	321	322	323
EXUS34	330	330	331	332	333
EXUS34	340	340	341	342	343

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
427	1638127.71	1638127.71	734.721	RTE78	41+99.0196	51.44' LT	CHISELD SO. HEADWALL
428	1638097.0710	2357320.2404	799.6761	EXUS34	642+11.3981	135.7074' LT	FOUNDATION
WHA400	1639828.6009	2361467.2844	753.7620	EXUS34	689+55.8138	17.9039' LT	CHISELED SQUARE, BENCH TIE
WHA401	1640151.1981	2361940.7963	755.9530	EXUS34	695+27.3189	22.8927' RT	BOLT, BENCH TIE
WHA420	1638018.6664	2357600.1129	795.9040	BL.BHAWK.EAST	OUT OF CHAIN	-----	VERTICAL CONTROL STATION, DISK
WHA421	1640406.5299	2362322.6077	754.4280	BL.BHAWK.EAST	24+73.2355	2474.1207' LT	VERTICAL CONTROL STATION, DISK



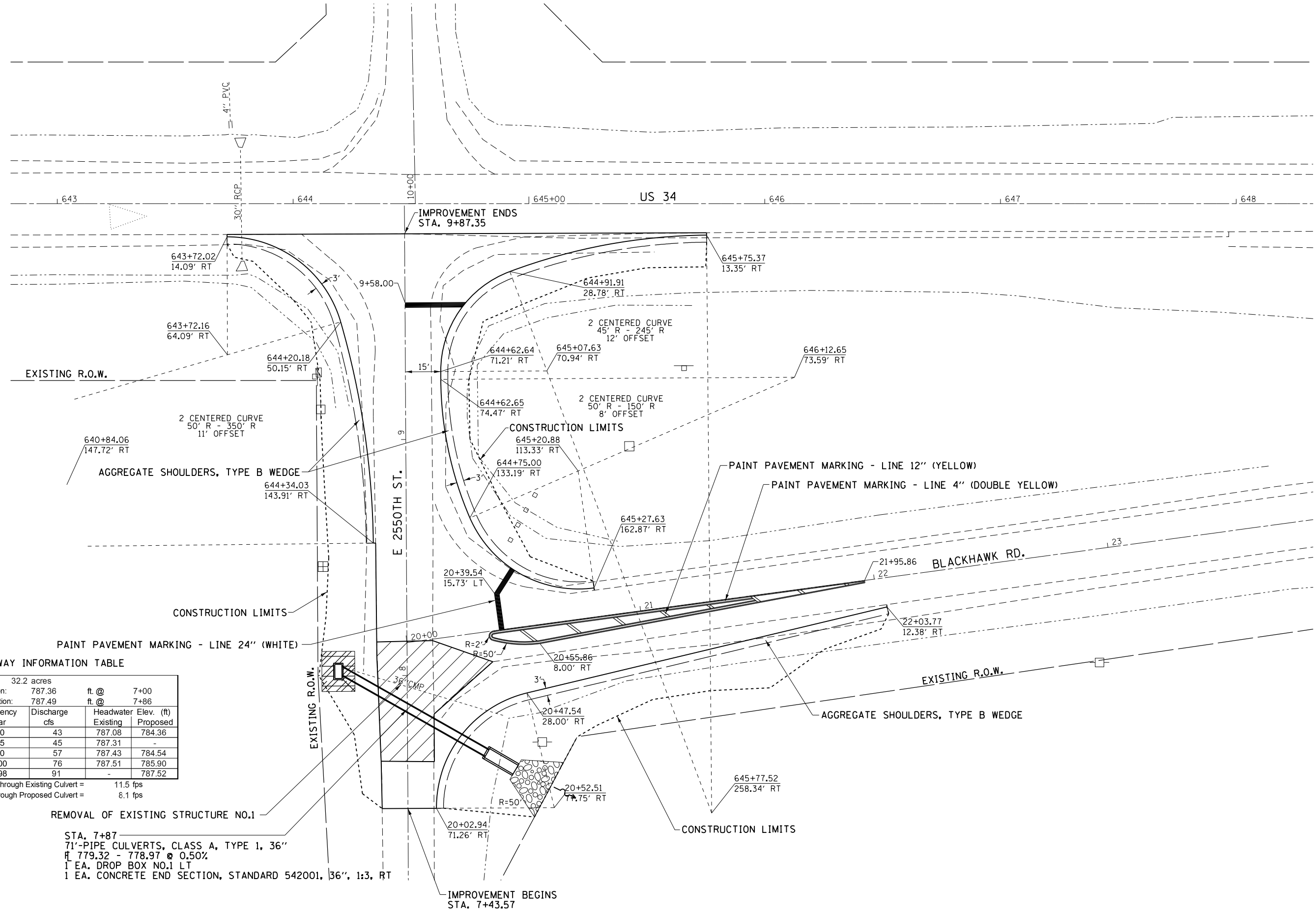
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		



STA. 691+00 to 693+00  
 EARTH EX. = 413.5 CU.YDS.  
 EMB. = 11.9 CU.YDS.  
 WASTE = 298.2 CU.YDS.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 34 PLAN &amp; PROFILE</b>	F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 27		
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 64H02		ILLINOIS FED. AID PROJECT				
	PLOT DATE = Jul-28-2016 01:42:32 PM	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.				



WATERWAY INFORMATION TABLE

Drainage Area =		32.2 acres		
Existing Low Grade Elevation:		787.36	ft. @	7+00
Proposed Low Grade Elevation:		787.49	ft. @	7+86
Flood Year	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	43	787.08	784.36
EX OT	15	45	787.31	-
30 year	30	57	787.43	784.54
Base	100	76	787.51	785.90
PR OT	198	91	-	787.52
10-Year Velocity through Existing Culvert =		11.5 fps		
10-Year Velocity through Proposed Culvert =		8.1 fps		

REMOVAL OF EXISTING STRUCTURE NO.1  
 STA. 7+87  
 71'-PIPE CULVERTS, CLASS A, TYPE 1, 36"  
 1 EA. DROP BOX NO.1 LT  
 1 EA. CONCRETE END SECTION, STANDARD 542001, 36", 1:3, RT

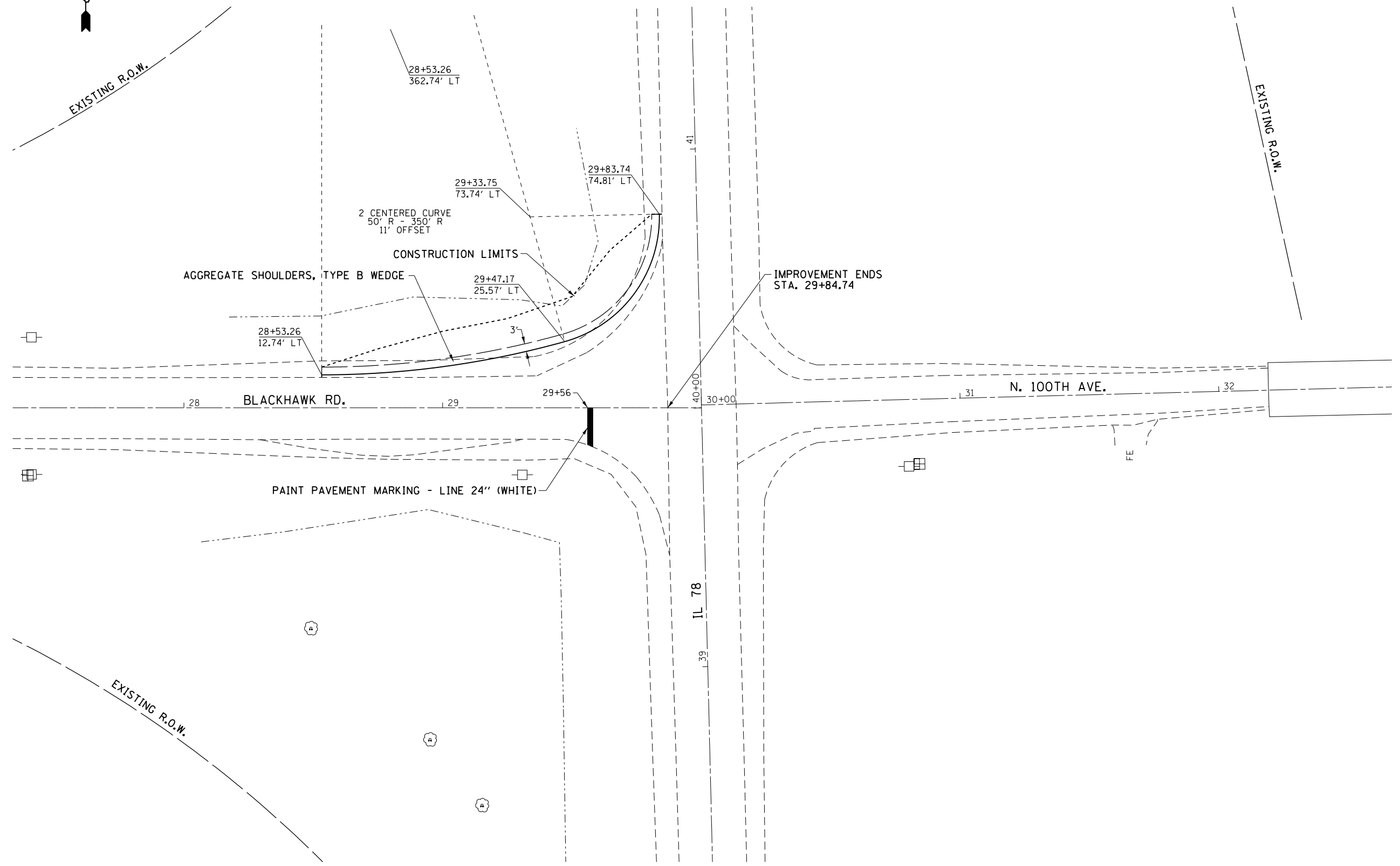
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

E. 2550TH ST. & BLACKHAWK RD.  
 PLAN

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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Default	PLOT DATE = Jul-28-2016 01:43:03 PM	DATE -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	28
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLACKHAWK RD.  
PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	29
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square corner of N.E. wingwall, Elev. 753.77.

Existing Structure: S.N. 037-0054 was originally constructed in 1960 under SBI Route 28 Section 10B-1 as a three span reinforced concrete arched girder (I-Beam) superstructure on two reinforced concrete solid wall piers on spread footings and two reinforced concrete stub abutments on battered H-Piles. In 1988 the bridge received deck repairs, an overlay and three beam rails. The structure is 167'-0" back-to-back abutments and 35'-8" out-to-out. The Superstructure and abutments to be removed and replaced. Existing Piers to support new Superstructure. Traffic to be detoured.

No salvage.

Reinforcement bars designated (E) shall be epoxy coated. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments. Slip forming of the parapet is not allowed.

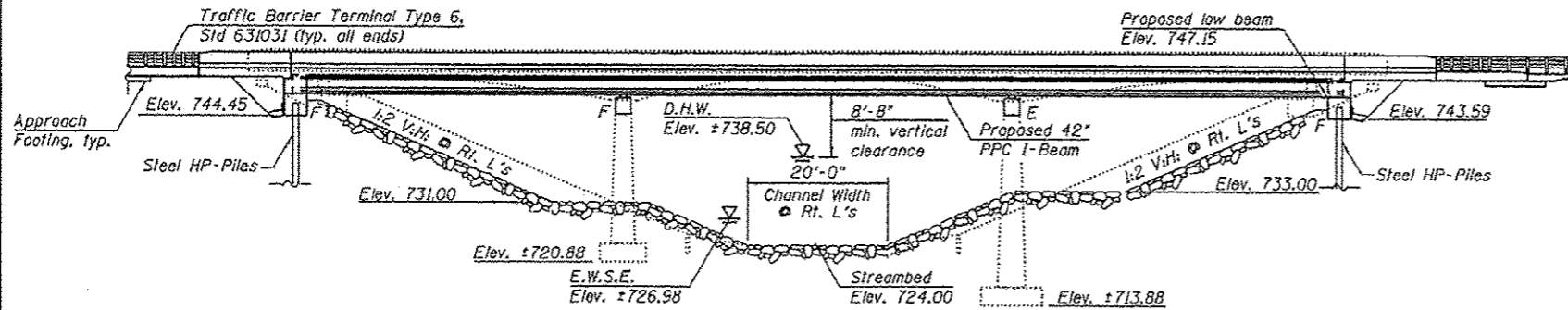
**GENERAL NOTES**

The piers are to be repaired as necessary using Epoxy Crack Injection and Structural Repair of Concrete (Depth Equal to or less than 5 inches). At the time observations were performed, minimal deficiencies were identified. Actual areas to be repaired shall be determined by the Engineer in the field at the time of construction. Quantities have been added to the plans and are for bidding purposes only. Removal of railing, expansion joint, bearings and deck drains are included in the cost of Removal of Existing Superstructure.

**INDEX OF SHEETS**

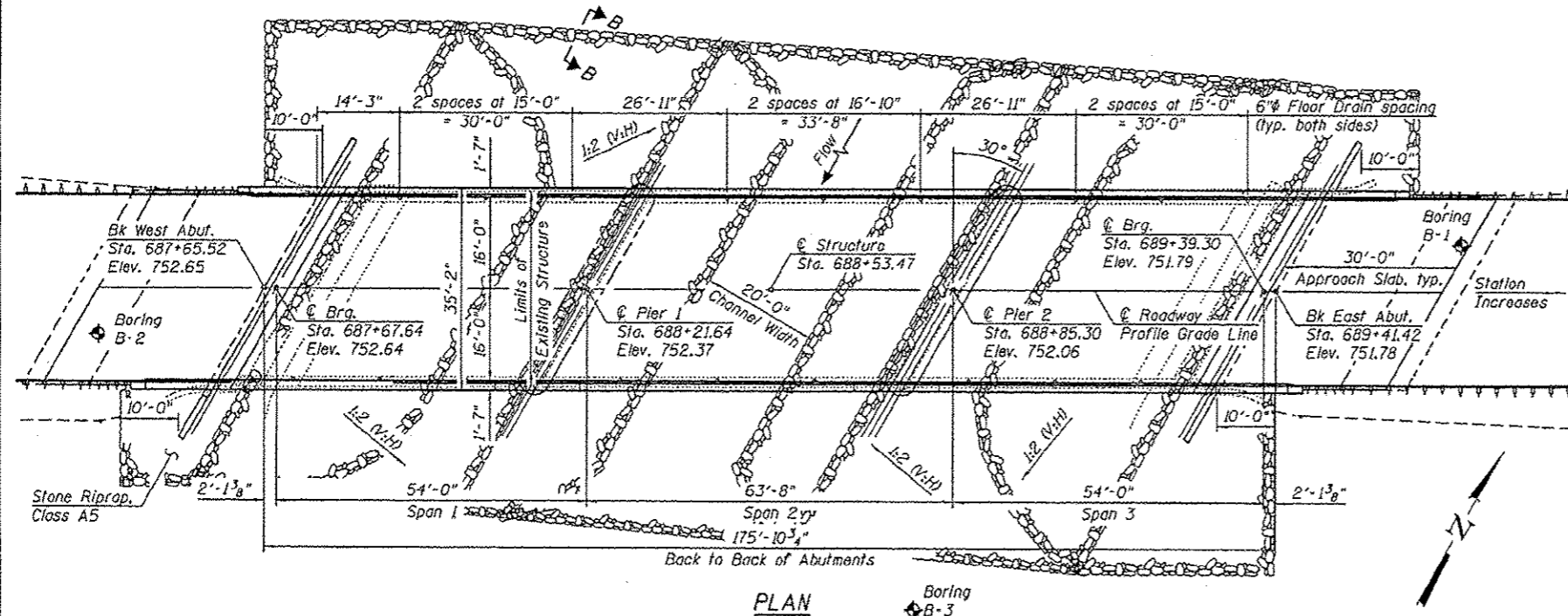
- 1 General Plan and Elevation
- 2 General Details
- 3-4 Top of Slab Elevations
- 5 Top of Approach Slab Elevations
- 6 Superstructure
- 7 Superstructure Details
- 8-9 Diaphragm Details
- 10-11 Bridge Approach Slab Details
- 12 Framing Plan
- 13-14 42" PPC I-Beam
- 15 42" PPC I-Beam Details
- 16 Bearing Details
- 17 Abutment Removal Details
- 18 West Abutment Details
- 19 East Abutment Details
- 20-21 Pier Details
- 22 HP Pile Details
- 23-24 Soil Boring Logs
- 25 Existing General Plan and Elevation

**APPROVED**  
For Structural Adequacy Only  
*Dr. Carl Kuyper*  
Engineer of Bridges & Structures



**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.
0100	744.45	720.88	713.88	743.59
0200	744.45	720.88	713.88	743.59



**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interim

**DESIGN STRESSES**

**NEW CONSTRUCTION**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
**PRECAST PRESTRESSED UNITS**  
f'c = 6,000 psi  
f'ci = 5,000 psi  
fpu = 270,000 (1/2% low lax. strands)  
fpbt = 201,960 psi (1/2% low lax. strands)

**EXISTING CONSTRUCTION**  
f'c = 2,500 psi  
fy = 40,000 psi (Reinforcement)

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = .069  
Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = .113  
Soil Site Class = C

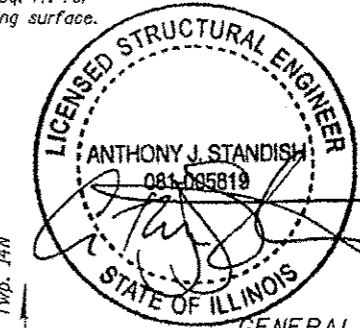
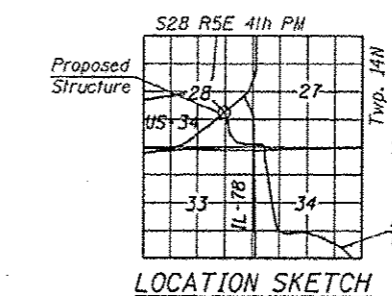
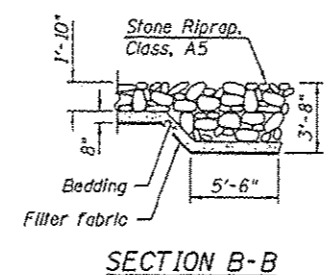
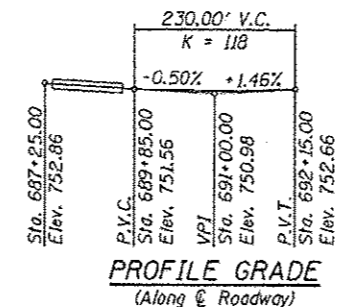
STATION 688+53  
RE-BUILT 20XX BY  
STATE OF ILLINOIS  
F.A.P. RT. 37 SEC. 10BR-1  
LOADING HL-93  
STRUCTURE NO. 037-0054

**NAME PLATE**

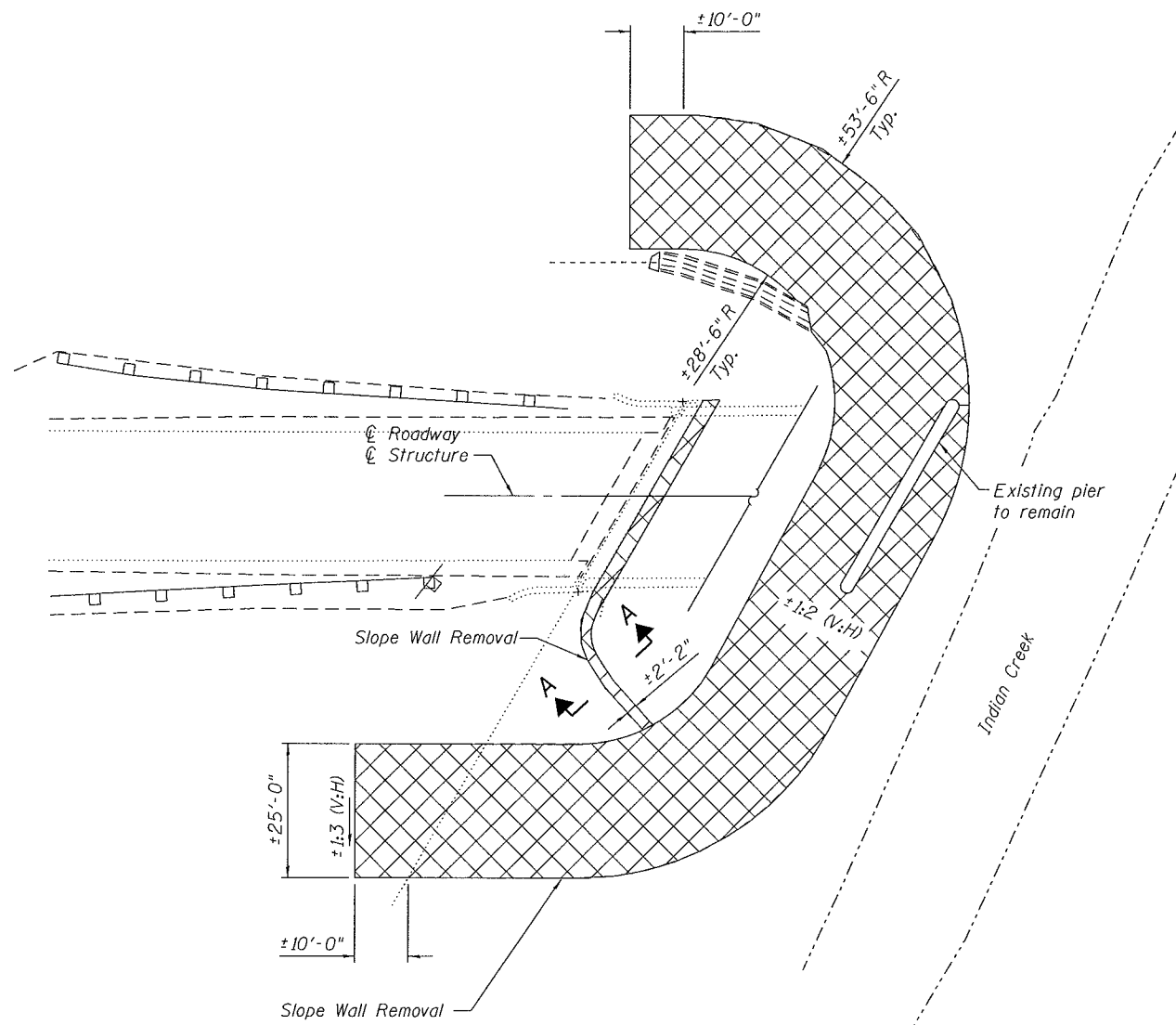
See Std. 515001  
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

**WATERWAY INFORMATION**

Drainage Area = 17.6 sq. mi.		Existing Low Grade Elev. 751.6 @ Sta. 690+00		Proposed Low Grade Elev. 751.4 @ Sta. 690+44		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Not. H.W.F.	Head - Ft.	Headwater El.
10	2.876	596	659	736.5	1.3	1.0
Design	50	4,656	746	846	1.4	1.0
Base	100	5,483	803	917	1.6	1.1
Scour Design Check	200	6,324	903	1,032	1.7	1.1
Overtop Existing	-	-	-	-	-	-
Overtop Proposed	-	-	-	-	-	-
Max. Calc.	500	7,499	1,025	1,174	1.7	1.1

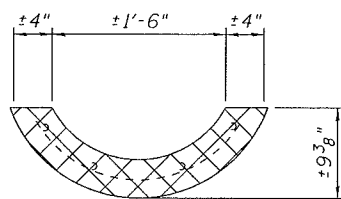


**GENERAL PLAN & ELEVATION**  
US-34 OVER INDIAN CREEK  
F.A.P. RT. 37 SECTION 10BR-1  
HENRY COUNTY  
STATION 688+53.47  
STRUCTURE NO. 037-0054



**SLOPE WALL REMOVAL PLAN**

West Abutment Shown  
East Abutment Similar  
(Bridge Superstructure Not Shown)

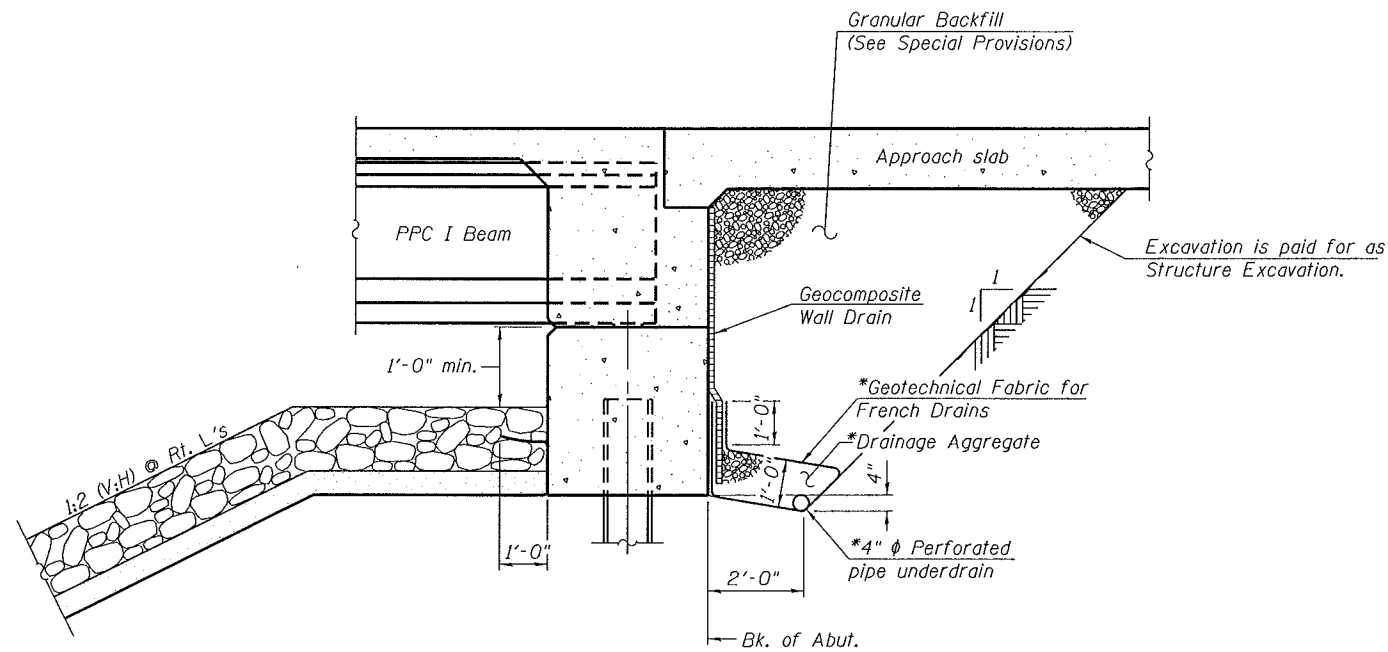


**SECTION A-A**

Paved Ditch  
Paid for as Slope Wall Removal

**LEGEND**

Slope Wall Removal



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures.  
(See Special Provisions)

**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
Stone Riprap, Class A5	Sq Yd		1,960	1,960
Filter Fabric	Sq Yd		1,960	1,960
Removal Of Existing Superstructures	Each		1	1
Concrete Removal	Cu Yd		74	74
Slope Wall Removal	Sq Yd		115	115
Structure Excavation	Cu Yd		266	266
Floor Drains	Each	18		18
Concrete Structures	Cu Yd		109	109
Concrete Superstructure (Approach Slab)	Cu Yd	100		100
Concrete Superstructure	Cu Yd	262		262
Bridge Deck Grooving	Sq Yd	779		779
Protective Coat	Sq Yd	1,034		1,034
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 42 IN.	Foot	1,024		1,024
Reinforcement Bars, Epoxy Coated	Pound	75,660	14,110	89,770
Furnishing Steel Piles HP14X73	Foot		280	280
Driving Piles	Foot		280	280
Test Pile Steel HP 14X73	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	12		12
Anchor Bolts, 1"	Each	24		24
Anchor Bolts, 1 1/2"	Each	4		4
Epoxy Crack Injection	Foot		5	5
Geocomposite Wall Drain	Sq Yd		90	90
Granular Backfill for Structures	Cu Yd		183	183
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Yd	6		6
Pipe Underdrains For Structures 4"	Foot		195	195

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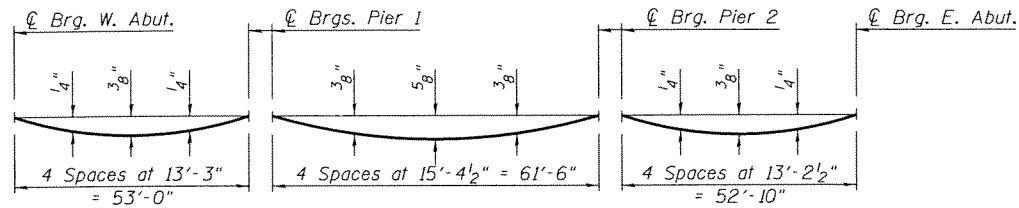
**SA STRAND ASSOCIATES**  
1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

USER NAME = benl  
DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
PLOT DATE = 9/28/2016  
CHECKED - RRD

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DETAILS  
STRUCTURE NO. 037-0054**  
SHEET NO. 2 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	

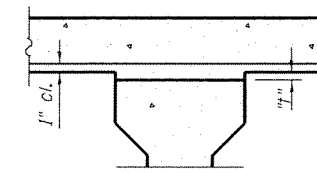


**DEAD LOAD DEFLECTION DIAGRAM**

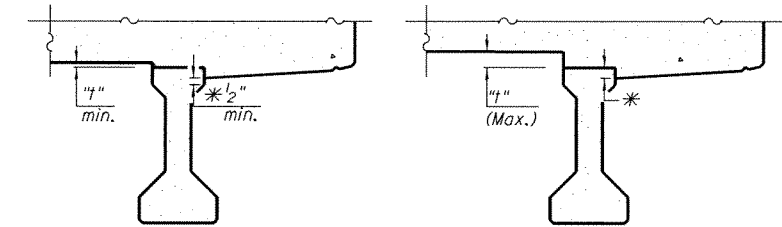
(Includes weight of concrete, excluding beams).

**Note:**

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 of 25.



**INTERIOR BEAMS**

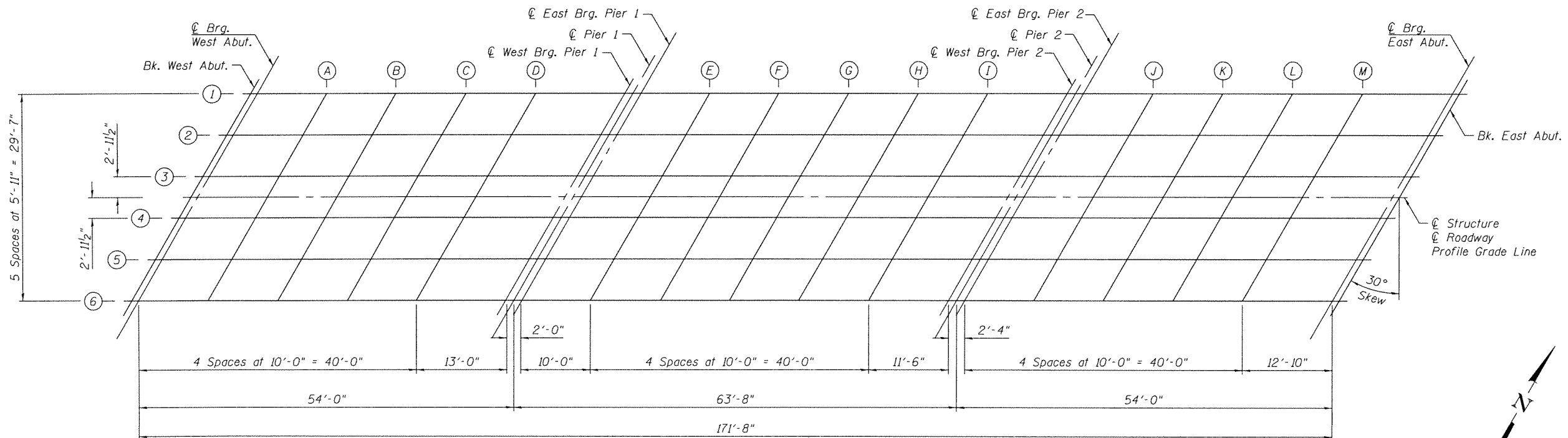


\* Variable (not less than 1/2")

**EXTERIOR BEAMS**

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 4 of 25. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 4 of 25, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

**FILLET HEIGHTS**



**PLAN**

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PI-E

7-1-10

1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
8151 744-4200  
STRAND ASSOCIATES  
IDFPR NO. 184-001273

USER NAME = briant  
PLOT SCALE =  
PLOT DATE = 3/18/2015

DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
CHECKED - RRD

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (1 OF 2)  
STRUCTURE NO. 037-0054

SHEET NO. 3 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 32
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



BEAM - 1

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

BEAM - 2

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

BEAM - 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

STRUCTURE, ROADWAY & PGL

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

BEAM - 4

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

BEAM - 5

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

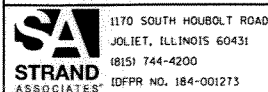
BEAM - 6

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load. Rows include Back of W. Abut., CL Brq. W. Abut., A, B, C, D, CL W. Brq. Pier 1, CL Pier 1, CL E. Brq. Pier 1, F, G, H, I, CL W. Brq. Pier 2, CL Pier 2, CL E. Brq. Pier 2, J, K, L, M, CL Brq. E. Abut., Back of E. Abut.

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PI-EI

7-1-10



1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
8151 744-4200  
IDFPR NO. 184-001213

USER NAME = brianf  
DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
CHECKED - RRD  
REVISOR -  
REVISIONS -  
REVISOR -  
REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (2 OF 2)  
STRUCTURE NO. 037-0054

SHEET NO. 4 OF 25 SHEETS

F.A.P. RFE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
37 10BR-1 HENRY 95 33  
CONTRACT NO. 64H02  
ILLINOIS FED. AID PROJECT

NORTH EDGE OF SHOULDER

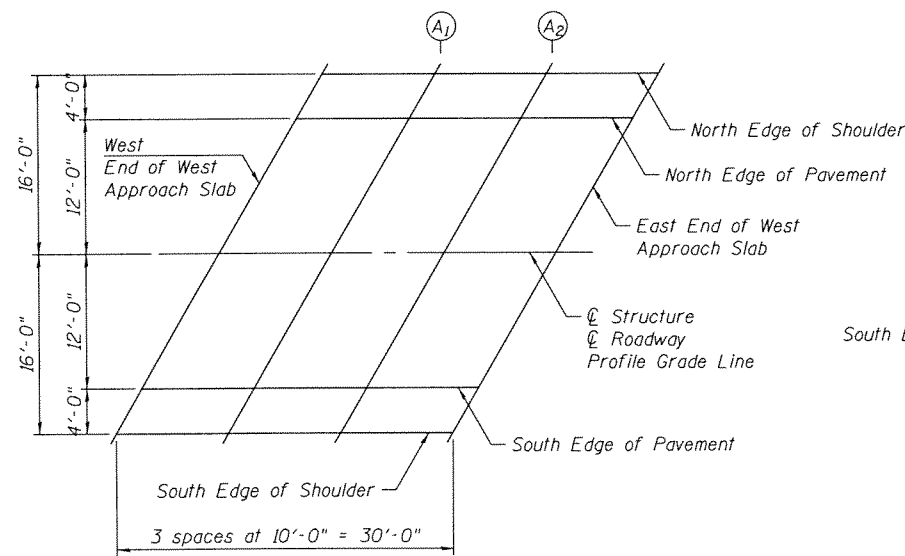
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	687+45.91	-16.00	752.49
A1	687+55.91	-16.00	752.44
A2	687+65.91	-16.00	752.39
E. End West Appr. Slab	687+75.91	-16.00	752.34
W. End East Appr. Slab	689+49.50	-16.00	751.47
A3	689+59.50	-16.00	751.43
A4	689+69.50	-16.00	751.37
E. End East Appr. Slab	689+79.50	-16.00	751.33

NORTH EDGE OF PAVEMENT

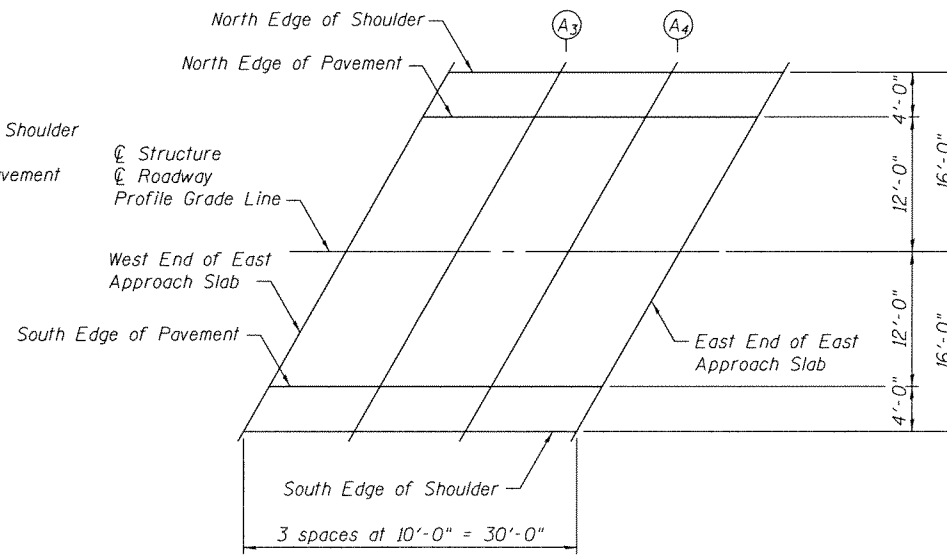
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	687+43.60	-12.00	752.58
A1	687+53.60	-12.00	752.53
A2	687+63.60	-12.00	752.48
E. End West Appr. Slab	687+73.60	-12.00	752.43
W. End East Appr. Slab	689+47.19	-12.00	751.57
A3	689+57.19	-12.00	751.52
A4	689+67.19	-12.00	751.47
E. End East Appr. Slab	689+77.19	-12.00	751.42

☉ STRUCTURE, ☉ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	687+36.67	0.00	752.80
A1	687+46.67	0.00	752.75
A2	687+56.67	0.00	752.70
E. End West Appr. Slab	687+66.67	0.00	752.65
W. End East Appr. Slab	689+40.27	0.00	751.78
A3	689+50.27	0.00	751.73
A4	689+60.27	0.00	751.68
E. End East Appr. Slab	689+70.27	0.00	751.63



**PLAN**  
West Approach Slab



**PLAN**  
East Approach Slab

**PLAN**

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	687+29.75	12.00	752.65
A1	687+39.75	12.00	752.60
A2	687+49.75	12.00	752.55
E. End West Appr. Slab	687+59.75	12.00	752.50
W. End East Appr. Slab	689+33.34	12.00	751.64
A3	689+43.34	12.00	751.59
A4	689+53.34	12.00	751.54
E. End East Appr. Slab	689+63.34	12.00	751.49

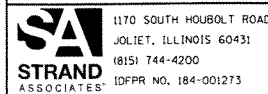
SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	687+27.44	16.00	752.59
A1	687+37.44	16.00	752.54
A2	687+47.44	16.00	752.49
E. End West Appr. Slab	687+57.44	16.00	752.44
W. End East Appr. Slab	689+31.03	16.00	751.57
A3	689+41.03	16.00	751.52
A4	689+51.03	16.00	751.47
E. End East Appr. Slab	689+61.03	16.00	751.42

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PA-E

7-1-10



1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

USER NAME = brianf  
DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
PLOT SCALE =  
PLOT DATE = 3/18/2015

REVISED -  
REVISED -  
REVISED -  
CHECKED - RRD  
REVISED -

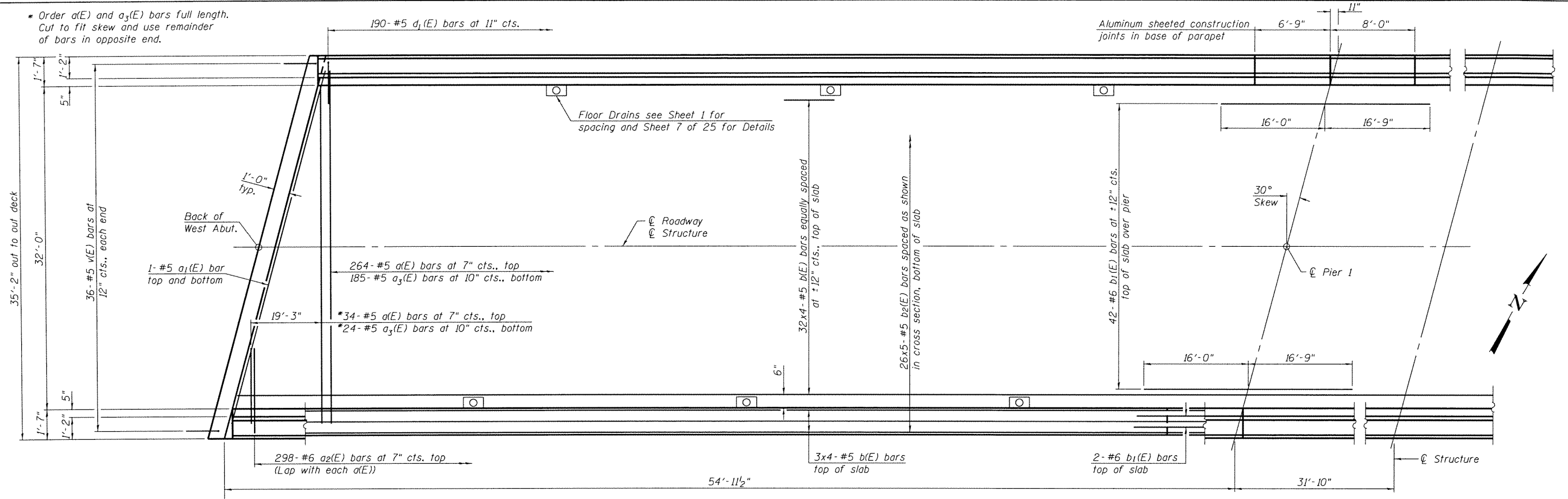
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 037-0054**

SHEET NO. 5 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 34
CONTRACT NO. 64H02				ILLINOIS FED. AID PROJECT

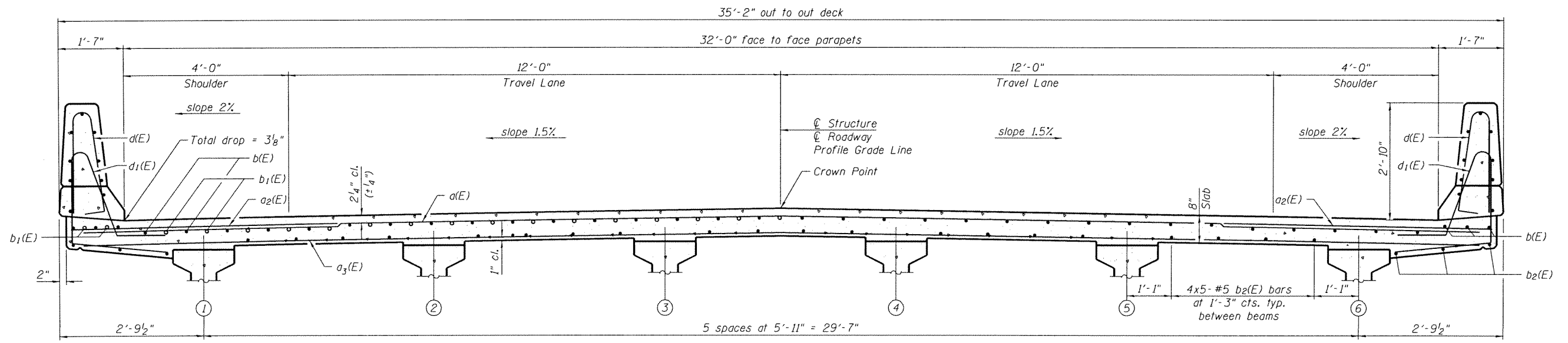
Order a(E) and a<sub>3</sub>(E) bars full length.  
Cut to fit skew and use remainder  
of bars in opposite end.



**MINIMUM BAR LAP**  
#5 bar = 2'-7"

**PARTIAL PLAN**

Notes:  
See Sheet 7 of 25 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
See Sheet 7 of 25 for parapet reinforcement.  
See Sheet 2 of 25 for field cutting diagrams.



**CROSS SECTION**  
(Looking East)

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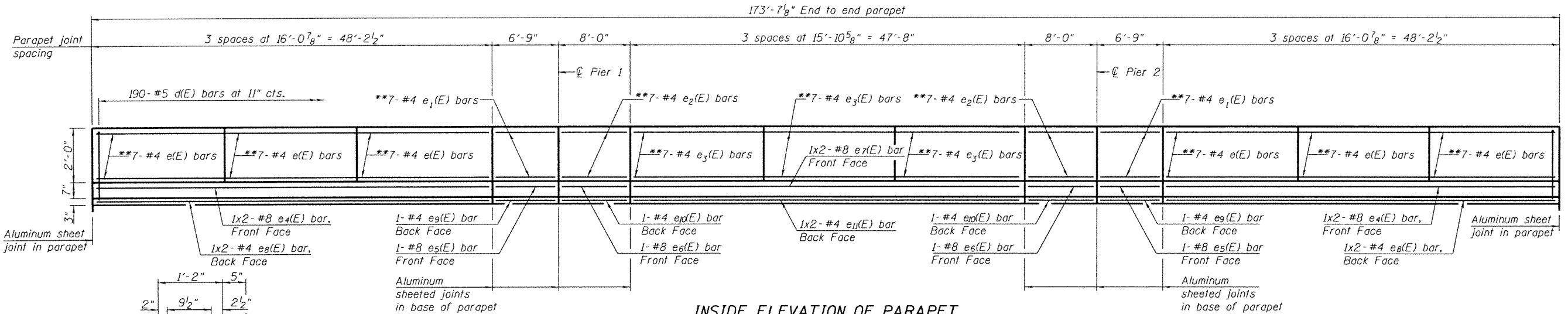
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	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISED -
			CHECKED - AJS	REVISED -
		PLOT SCALE =	DRAWN - B.J.F.	REVISED -
		PLOT DATE = 3/18/2015	CHECKED - RRD	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 037-0054**  
SHEET NO. 6 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H02	



**INSIDE ELEVATION OF PARAPET**

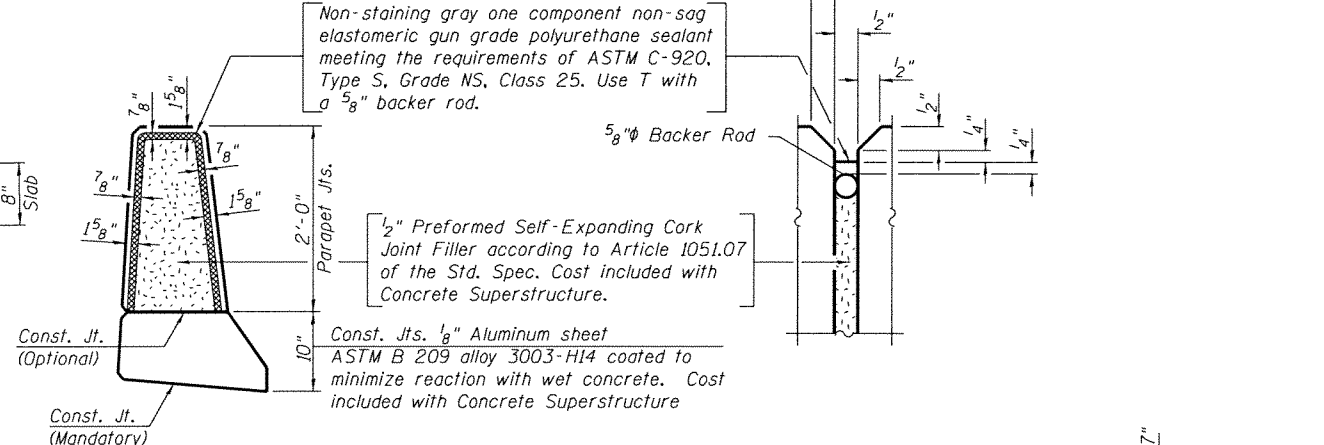
Note: Reinforcement bars shall not pass through aluminum sheets or cork filler.

**SUPERSTRUCTURE BILL OF MATERIAL**

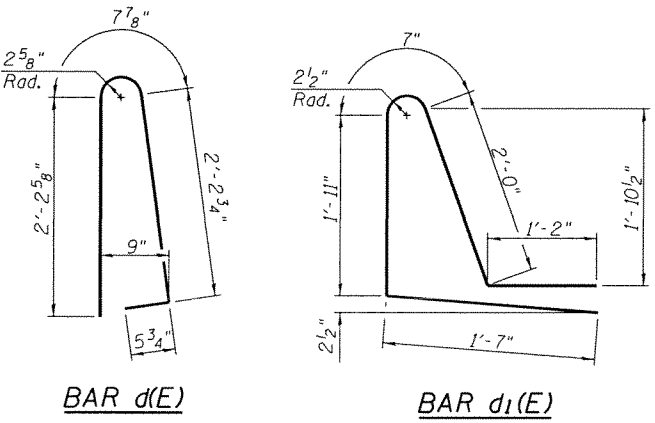
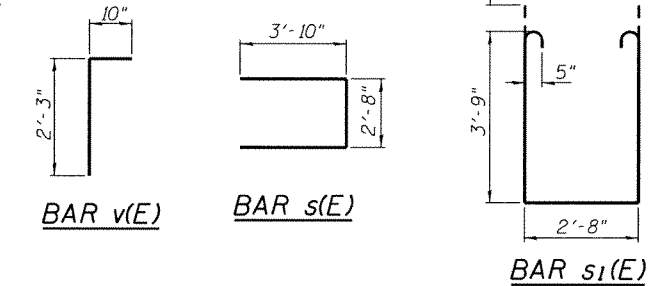
Bar	No.	Size	Length	Shape
d(E)	298	#5	34'-6"	—
a <sub>1</sub> (E)	4	#5	39'-10"	—
a <sub>2</sub> (E)	596	#6	6'-6"	—
a <sub>3</sub> (E)	209	#5	34'-0"	—
b(E)	152	#5	45'-5"	—
b <sub>1</sub> (E)	84	#6	32'-9"	—
b <sub>2</sub> (E)	130	#5	36'-10"	—
d(E)	396	#5	5'-7"	—
d <sub>1</sub> (E)	396	#5	7'-3"	—
e(E)	42	#4	15'-8"	—
e <sub>1</sub> (E)	14	#4	6'-5"	—
e <sub>2</sub> (E)	14	#4	7'-8"	—
e <sub>3</sub> (E)	21	#4	16'-6"	—
e <sub>4</sub> (E)	4	#8	26'-9"	—
e <sub>5</sub> (E)	2	#8	6'-5"	—
e <sub>6</sub> (E)	2	#8	7'-8"	—
e <sub>7</sub> (E)	2	#8	26'-5"	—
e <sub>8</sub> (E)	4	#4	25'-2"	—
e <sub>9</sub> (E)	2	#4	6'-5"	—
e <sub>10</sub> (E)	2	#4	7'-8"	—
e <sub>11</sub> (E)	2	#4	24'-10"	—
m(E)	10	#6	40'-3"	—
m <sub>1</sub> (E)	30	#6	5'-11"	—
m <sub>2</sub> (E)	12	#6	2'-5"	—
m <sub>3</sub> (E)	30	#6	4'-4"	—
m <sub>4</sub> (E)	4	#6	1'-10"	—
m <sub>5</sub> (E)	24	#5	4'-0"	—
m <sub>6</sub> (E)	20	#4	5'-11"	—
m <sub>7</sub> (E)	12	#8	6'-9"	—
s(E)	62	#5	9'-4"	—
s <sub>1</sub> (E)	62	#5	11'-4"	—
s <sub>2</sub> (E)	25	#4	11'-4"	—
s <sub>3</sub> (E)	25	#4	11'-1"	—
v(E)	72	#5	3'-1"	—
Reinforcement Bars, Epoxy Coated		Lbs.	51,060	
Concrete Superstructure		Cu. Yds.	255	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

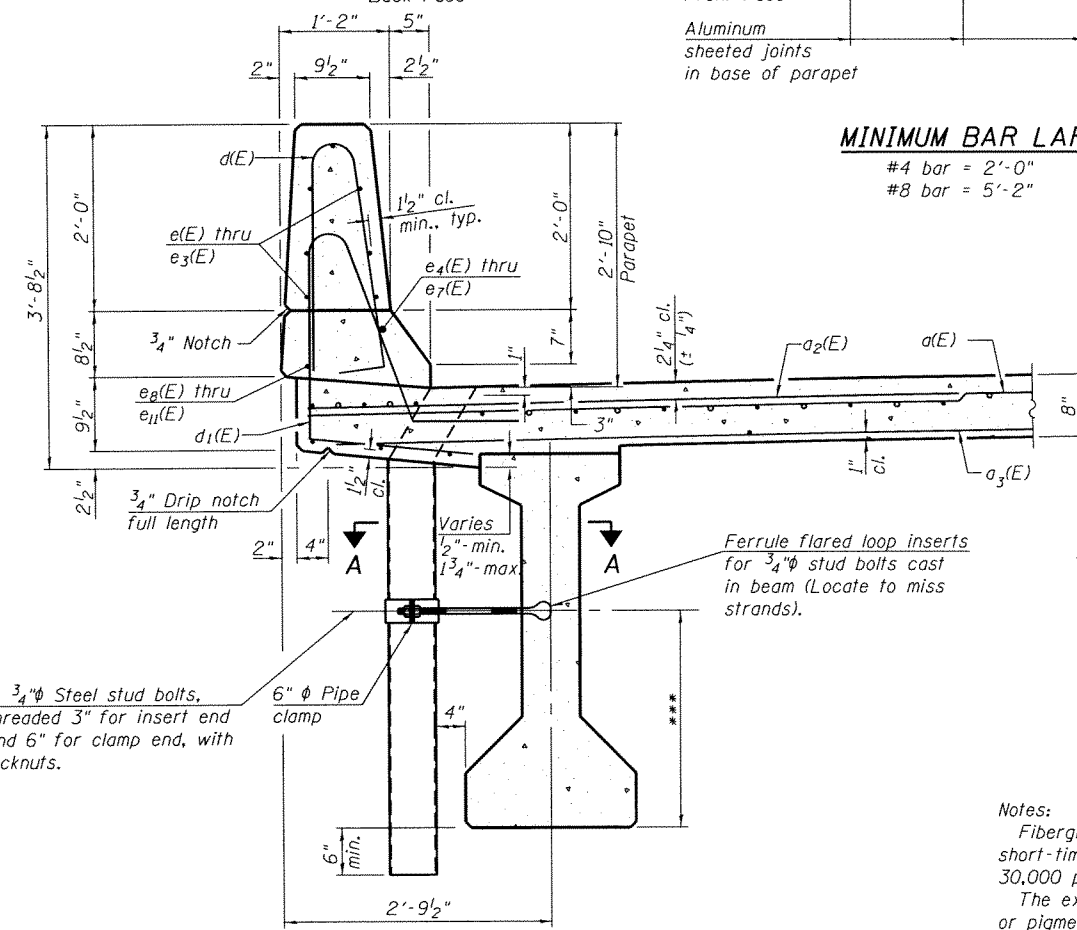
**MINIMUM BAR LAP**  
 #4 bar = 2'-0"  
 #8 bar = 5'-2"



**PARAPET JOINT DETAILS**

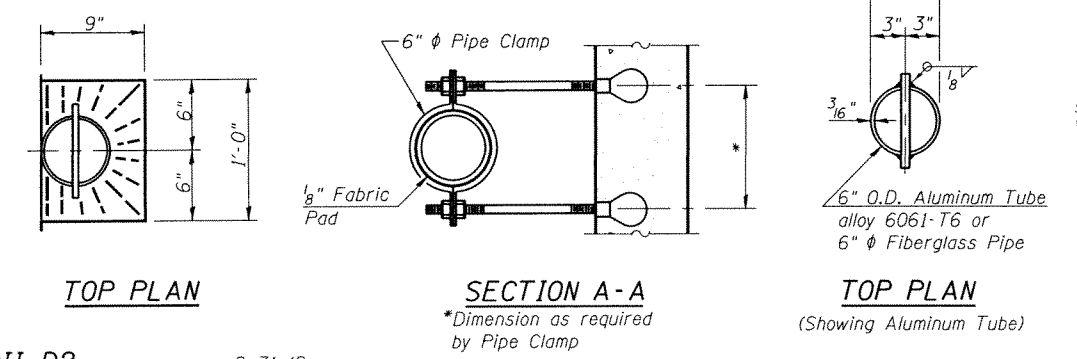


Notes:  
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.  
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.



**SECTION THRU PARAPET**

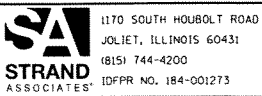
\*\*\*For insert locations See sheets 13 and 14 of 25.



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PII-D2

8-31-12



1170 SOUTH HOUBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
 IDPR NO. 184-001273

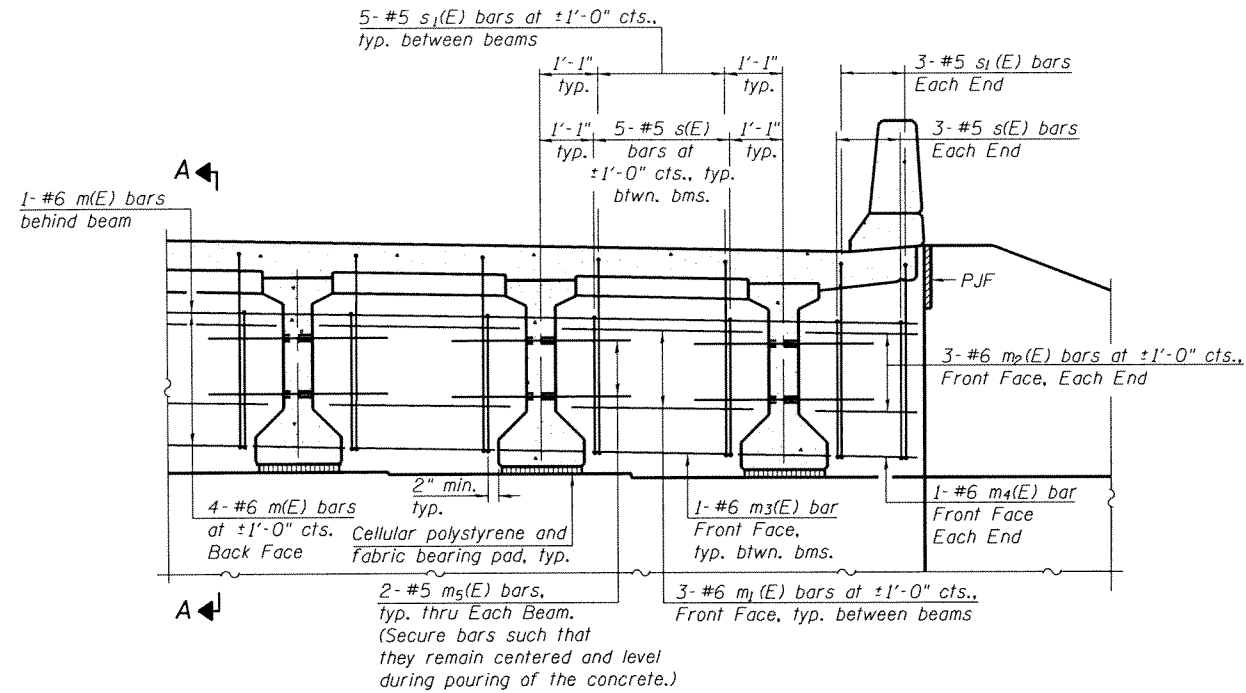
USER NAME = ryand	DESIGNED - RRD	REVISED -
PLOT SCALE =	CHECKED - AJS	REVISED -
PLOT DATE = 3/18/2015	DRAWN - B.J.F.	REVISED -
	CHECKED - RRD	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

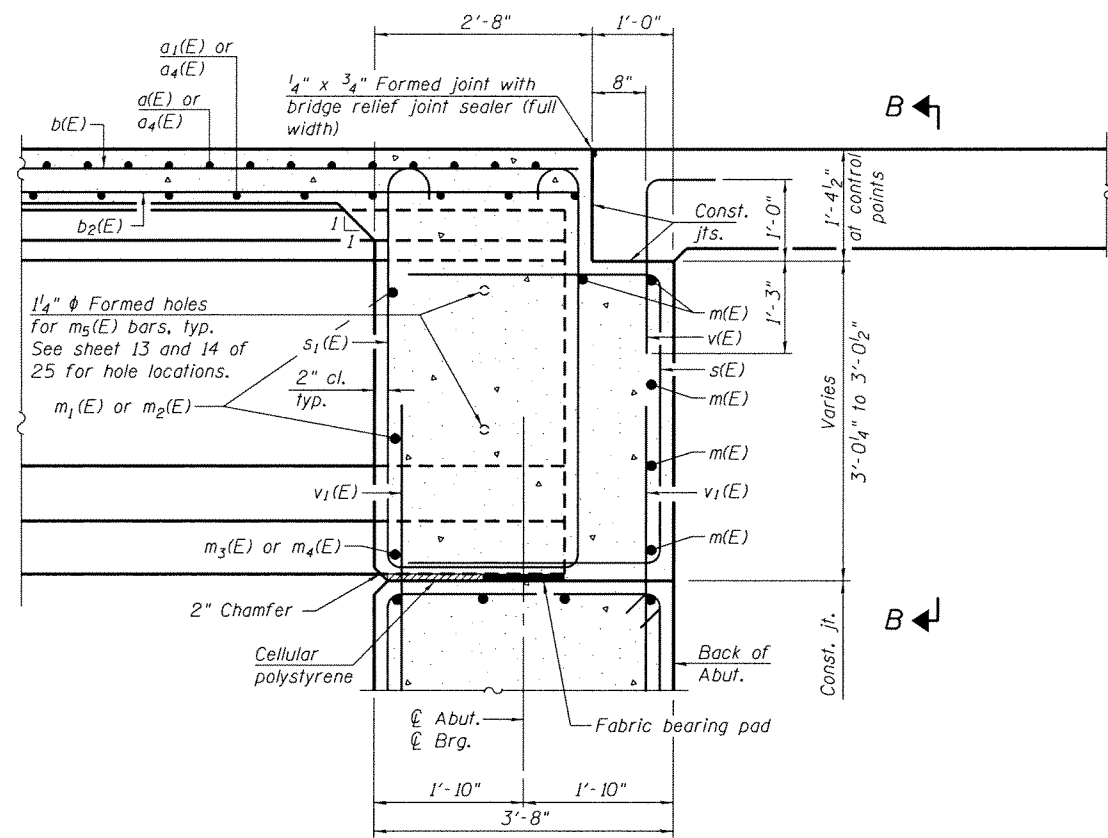
SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 037-0054

SHEET NO. 7 OF 25 SHEETS

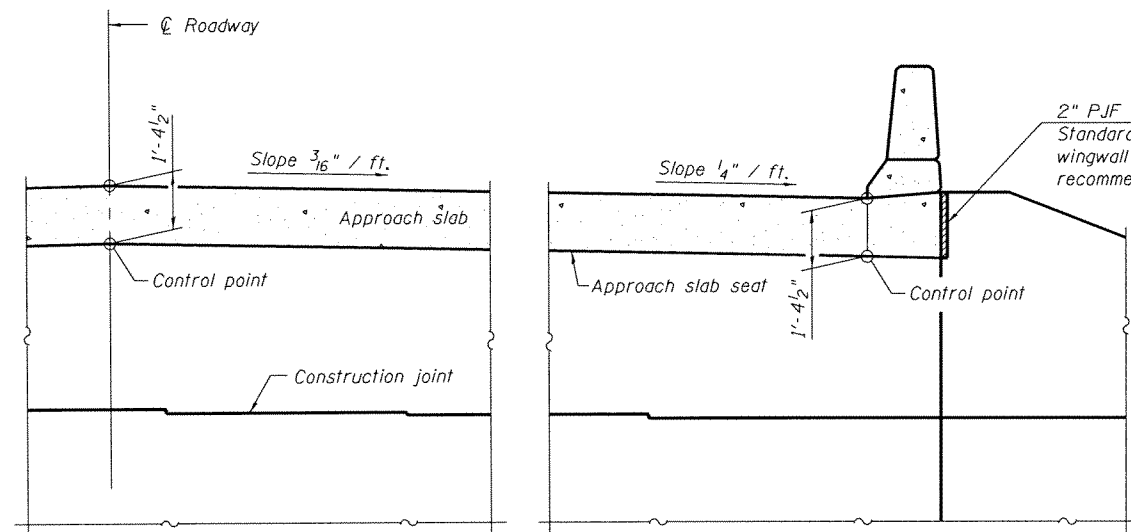
F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 36
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



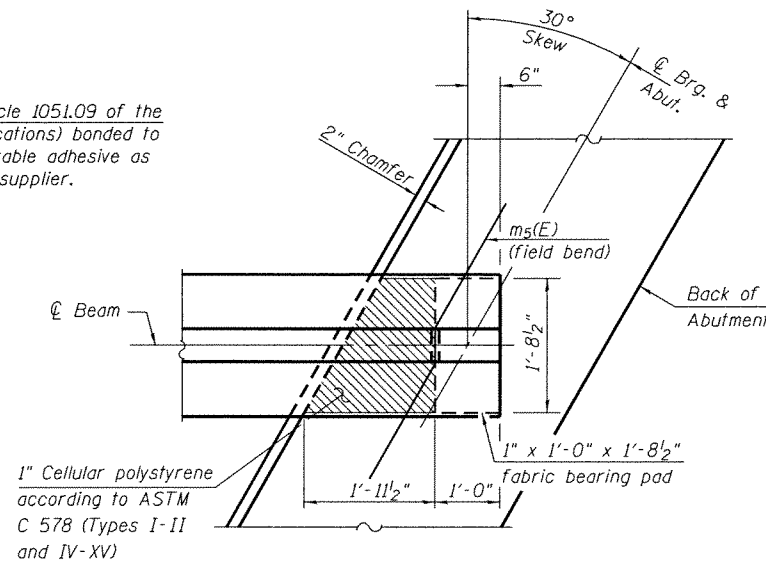
**DIAPHRAGM ELEVATION AT ABUTMENT**



**SECTION A-A**  
(at Rt. L's)



**SECTION B-B**



**PARTIAL PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 25.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 25.  
 For details of bars s(E), s1(E) and v(E) see sheet 7 of 25.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 Cost of cellular polystyrene and P.J.F. is included with Concrete Superstructure.

FILE NAME = S:\JOL\6380--6399\6346\97A\Micros\CADD\Sheets\0370054-64H02-008-DIABET.dgn

DPI-4254-L

8-31-12

**SA STRAND ASSOCIATES**  
 1170 SOUTH HOUBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
 IDPRR NO. 184-001273

USER NAME = brianf  
 PLOT SCALE =  
 PLOT DATE = 3/18/2015

DESIGNED - RRD  
 CHECKED - AJS  
 DRAWN - B.J.F.  
 CHECKED - RRD

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

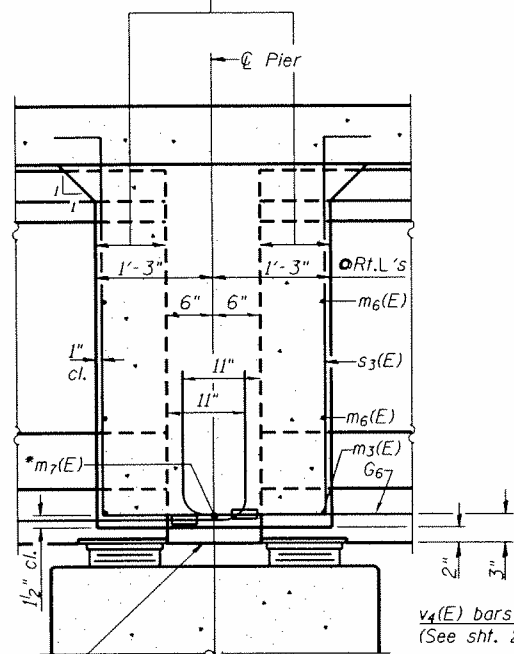
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS (1 OF 2)**  
**STRUCTURE NO. 037-0054**

SHEET NO. 8 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	37
				CONTRACT NO. 64H02
ILLINOIS FED. AID PROJECT				

Roofing felt shall be bonded to side of beam embedded into diaphragm.



Bott. of concrete at beam ends.

**SECTION B-B  
AT PIER 2  
(Expansion)**

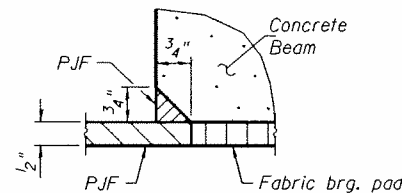
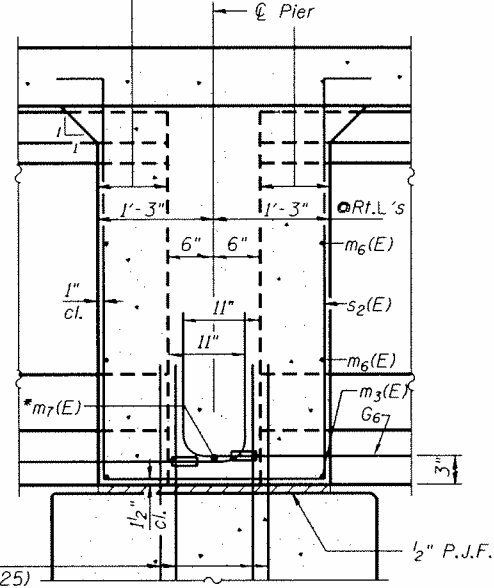
Dimensions along  $\phi$  of beam, except as shown.

\*Tightly fasten the #8 bars together with No. 9 wire ties.

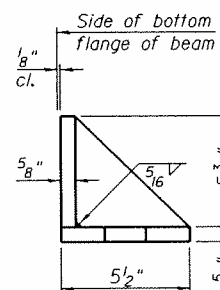
**SECTION C-C  
AT PIER 1  
(Fixed)**

Dimensions along  $\phi$  of beam, except as shown.

Roofing felt shall be bonded to side of beam embedded into diaphragm.

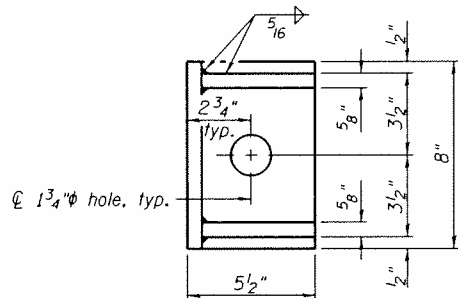


**DETAIL 'A'**

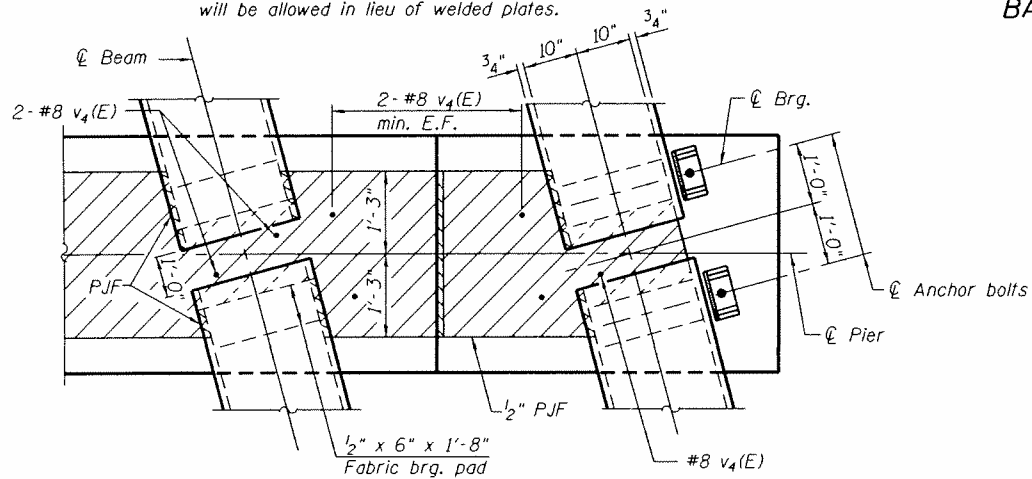


**SIDE RETAINER**

(2 required each side of pier).  
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

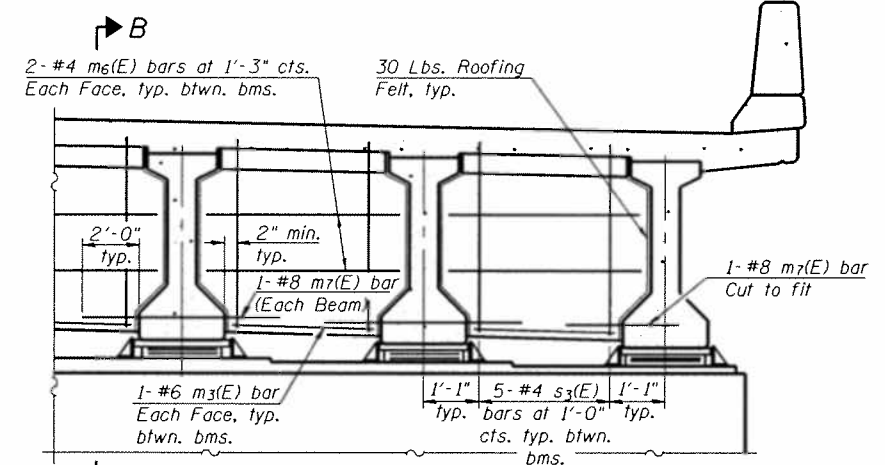


**BAR s2(E)  
BAR s3(E)**

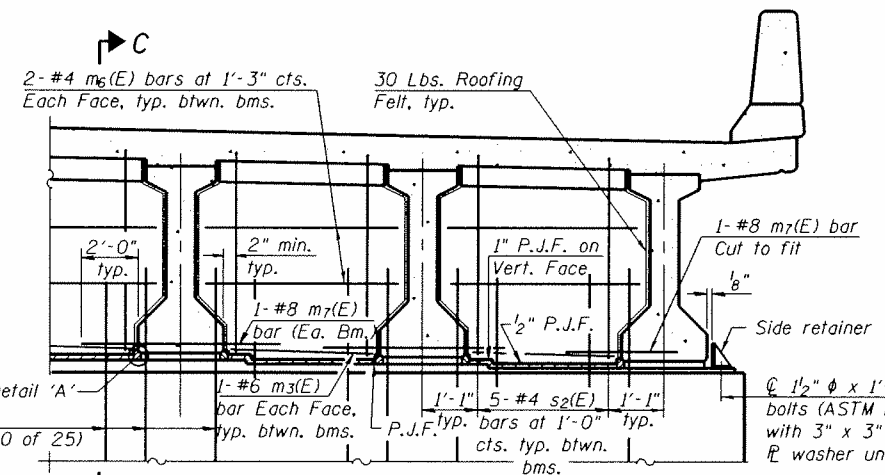


**PLAN AT PIER 1**

(Showing bearing pads and P.J.F. details)



**DIAPHRAGM AT PIER 2  
(Expansion)**



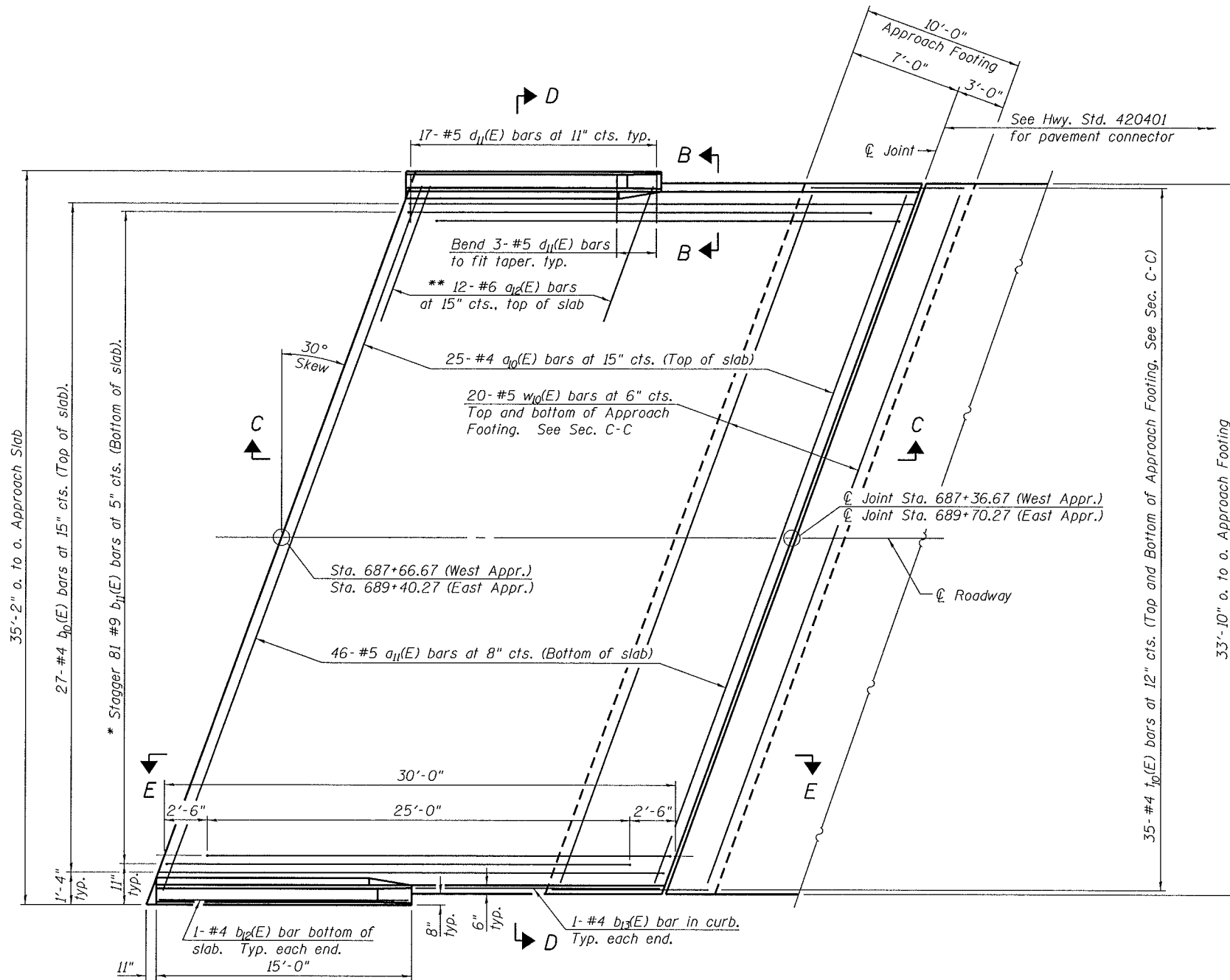
**DIAPHRAGM AT PIER 1  
(Fixed)**

**Notes:**

- Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 25.
- Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 25.
- The s2(E), s3(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
- Cost of 30 Lb. roofing felt is included with Concrete Superstructure. Horizontal dimensions for Sec. B-B and Sec. C-C are along  $\phi$  of beam unless otherwise noted.
- The side retainer shall be galvanized after shop fabrication according to AASHTO M111. Cost of side retainer and anchor bolts shall be included with Concrete Structures.
- See sheets 16 of 25 for anchor bolt information at Pier 2.
- Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.
- Pier 1 anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

FILE NAME : S:\JUL 16 2008 - 6:35 PM\6346\07A\Micro\CAOD\_Sheets\0370054-64HO2-009-DIAGDET.dgn

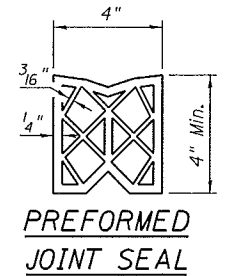
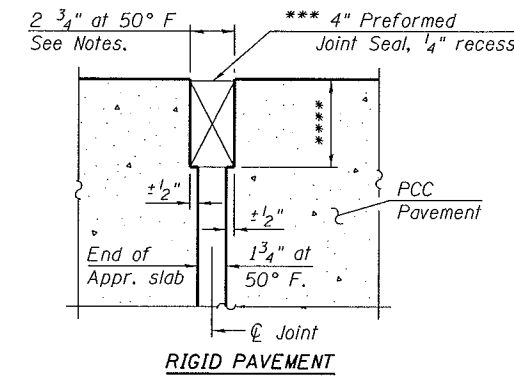
Notes:  
 See sheet 11 of 25 for Sections C-C & D-D and View E-E.  
 a (E) and a (E) bar spacings measured along  $\text{C.R.}$   
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.



**PLAN**

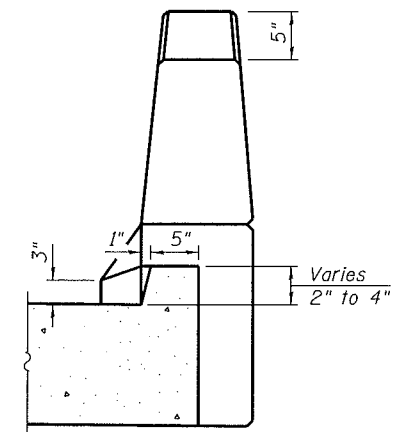
(East Approach Shown  
 West Approach Similar)

- \* Tilt #9  $b_{II}(E)$  bars as required to maintain clearance.
- \*\* Space between  $a_{II}(E)$  bars, typ. each parapet.



**DETAIL A**

- \*\*\* Cost included with Concrete Superstructure (Approach Slab).
- \*\*\*\* Per manufacturer's recommendations



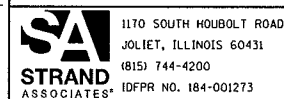
**VIEW B-B**

FILE NAME = S:\JL\5200-6399\6346\074\Nheros\CADD\Sheets\0370054-61402-010-BAP.dgn

BA-L

12-12-12

(Sheet 1 of 2)



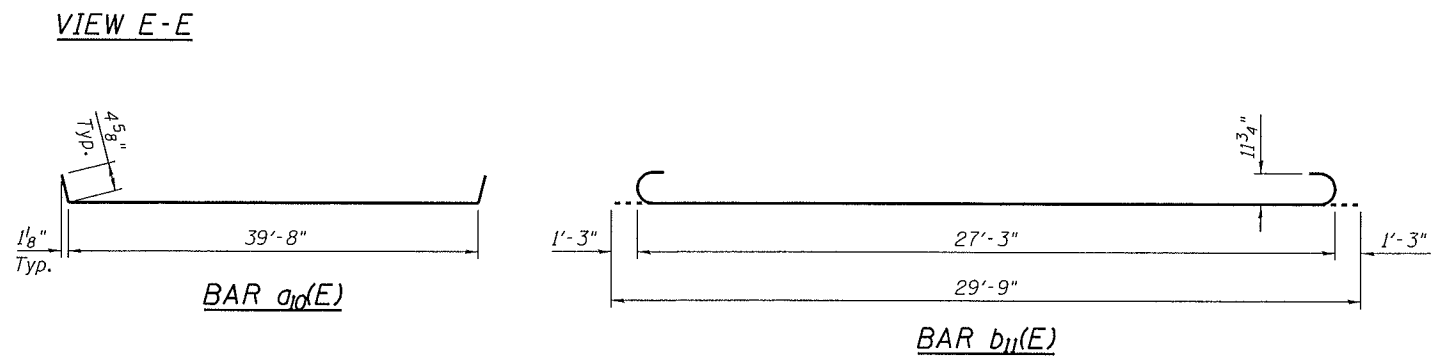
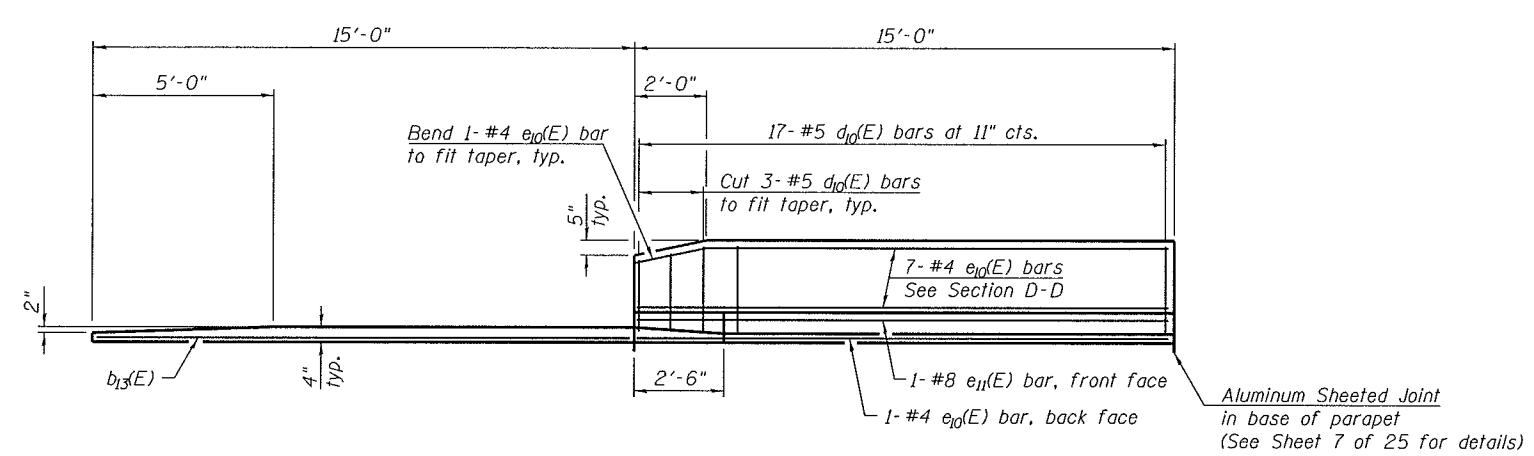
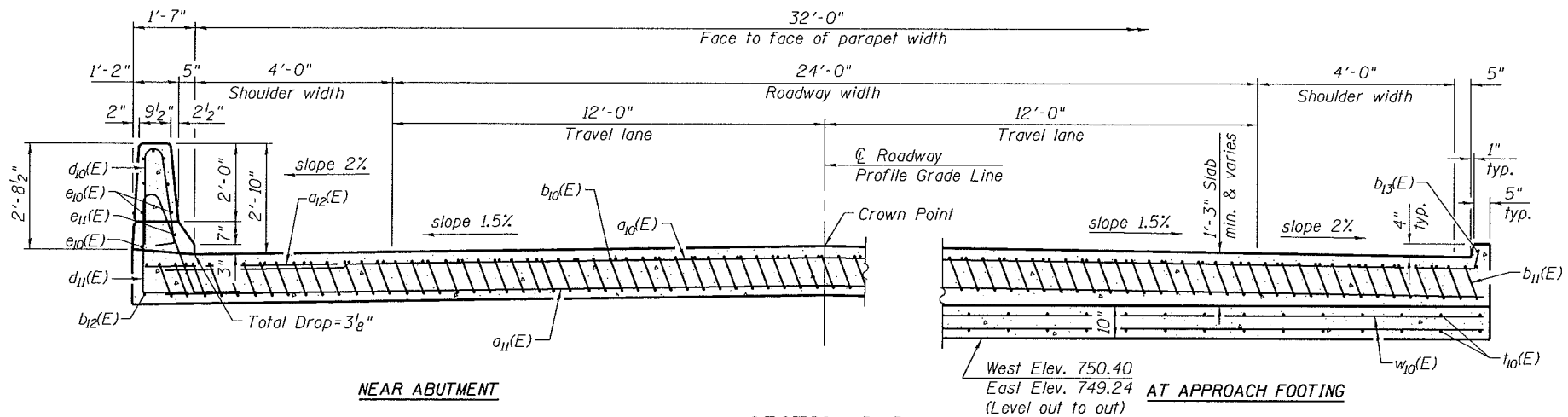
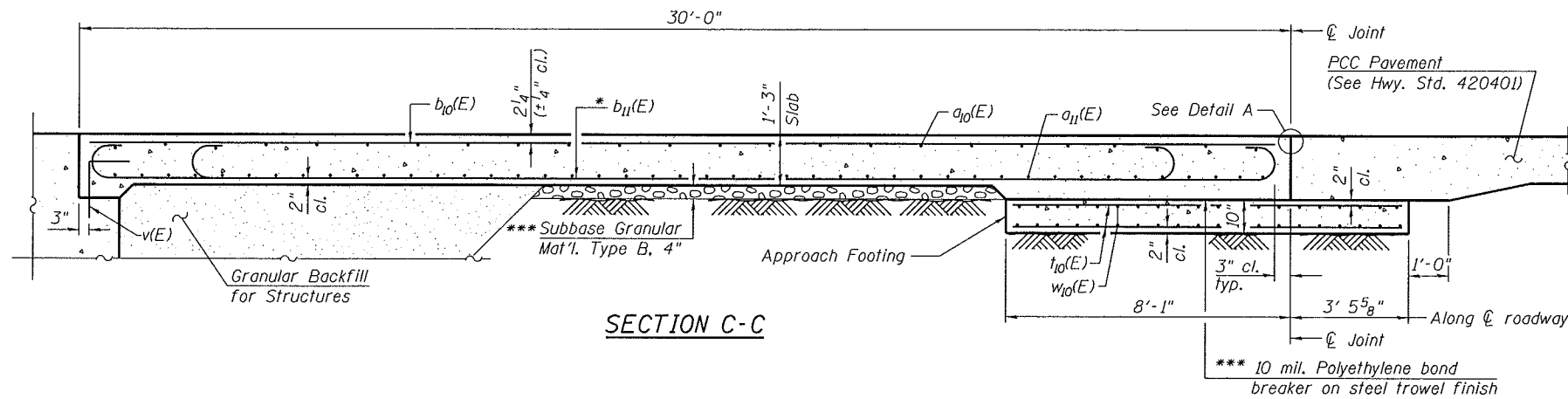
USER NAME = benl	DESIGNED - RRD	REVISED -
PLOT SCALE =	CHECKED - AJS	REVISED -
PLOT DATE = 9/28/2016	DRAWN - BJF	REVISED -
	CHECKED - RRD	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

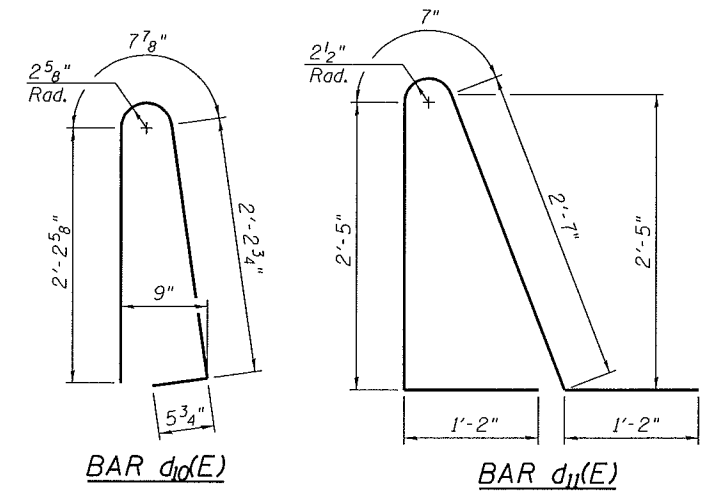
BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 037-0054

SHEET NO. 10 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



Notes:  
 See sheet 10 of 25 for Detail A and View B-B.  
 Parapet concrete shall be paid for as Concrete Superstructure. For additional parapet details, see sheet 7 of 25.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 8 of 25.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.



\* Tilt #9 b11(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure (Approach Slab).

**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	50	#4	40'-6"	—
a11(E)	92	#5	39'-8"	—
a12(E)	48	#6	6'-6"	—
b10(E)	54	#4	29'-8"	—
b11(E)	162	#9	29'-9"	—
b12(E)	4	#4	14'-8"	—
b13(E)	4	#4	15'-2"	—
d10(E)	68	#5	5'-7"	⌒
d11(E)	68	#5	7'-11"	⌒
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
i10(E)	140	#4	11'-2"	—
w10(E)	80	#5	38'-8"	—
Concrete Superstructure		Cu. Yd.	7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	100	
Concrete Structures		Cu. Yd.	25	
**** Reinforcement Bars, Epoxy Coated		Pound	24,600	
***** Reinforcement Bars, Epoxy Coated		Pound	4,280	

\*\*\*\* Included in Superstructure Quantity.  
 \*\*\*\*\* Included in Substructure Quantity.

FILE NAME = S:\JUL\6300-6399\6345\074\Micro-CADD\Sheets\0370054-61402-811-81R.dgn

BA-L 12-12-12



1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-00123	USER NAME = benl	DESIGNED - RRD	REVISED -
		CHECKED - AJS	REVISED -
		DRAWN - BJF	REVISED -
		CHECKED - RRD	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 037-0054

(Sheet 2 of 2)

SHEET NO. 11 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY		
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

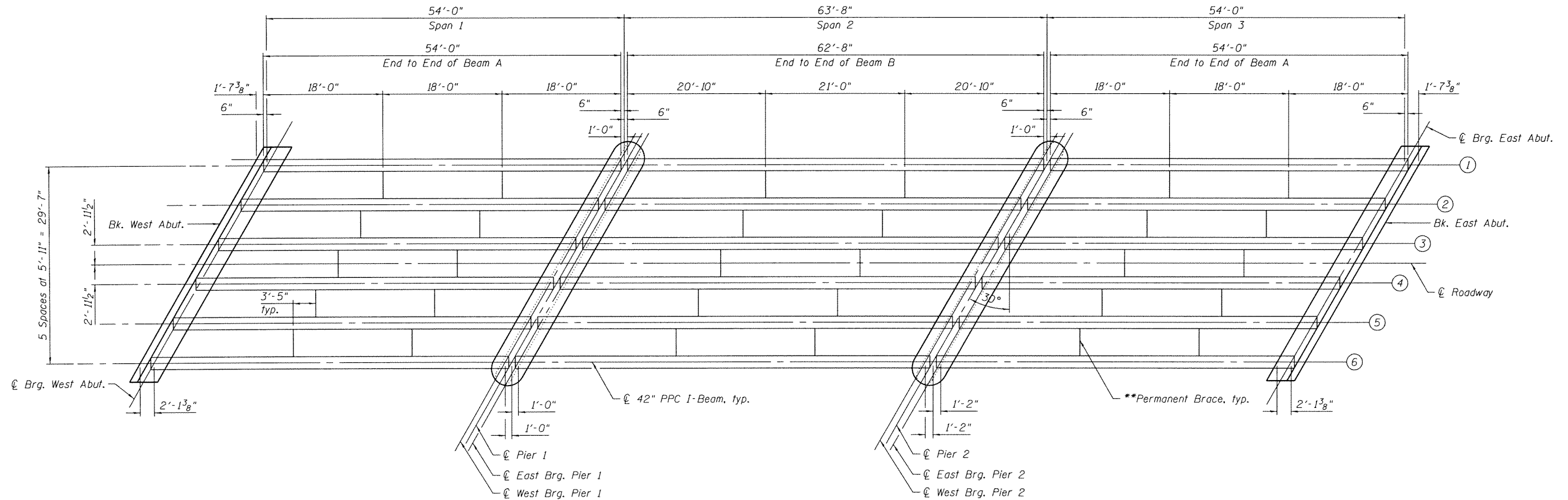


INTERIOR BEAM REACTION TABLE			
	Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
$R_{DC1}$	(k)	29.97	35.34
* $R_{DC2}$	(k)	3.08	4.78
* $R_{DW}$	(k)	6.07	9.39
* $R_{L + IM}$	(k)	68.52	50.87
$R_{Total}$	(k)	107.64	100.38

\* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

INTERIOR BEAM MOMENT TABLE			
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
$I$	(in <sup>4</sup> )	90,956	90,956
$I'$	(in <sup>4</sup> )	270,831	270,831
$S_b$	(in <sup>3</sup> )	5,153	5,153
$S_b'$	(in <sup>3</sup> )	8,698	8,698
$S_t$	(in <sup>3</sup> )	3,736	3,736
$S_t'$	(in <sup>3</sup> )	24,935	24,935
$DC1$	(k/ft)	1.11	1.11
$M_{DC1}$	(k)	388.41	562.42
$DC2$	(k/ft)	0.15	0.15
$M_{DC2}$	(k)	31.64	23.89
$DW$	(k/ft)	0.30	0.30
$M_{DW}$	(k)	62.23	46.99
$M_L + IM$	(k)	573.75	539.71

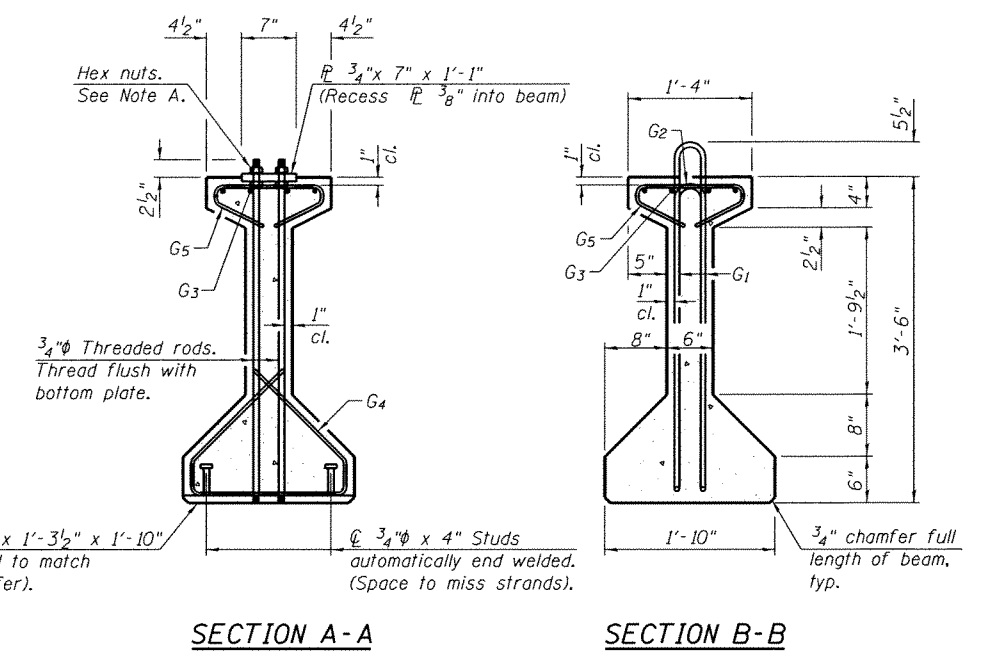
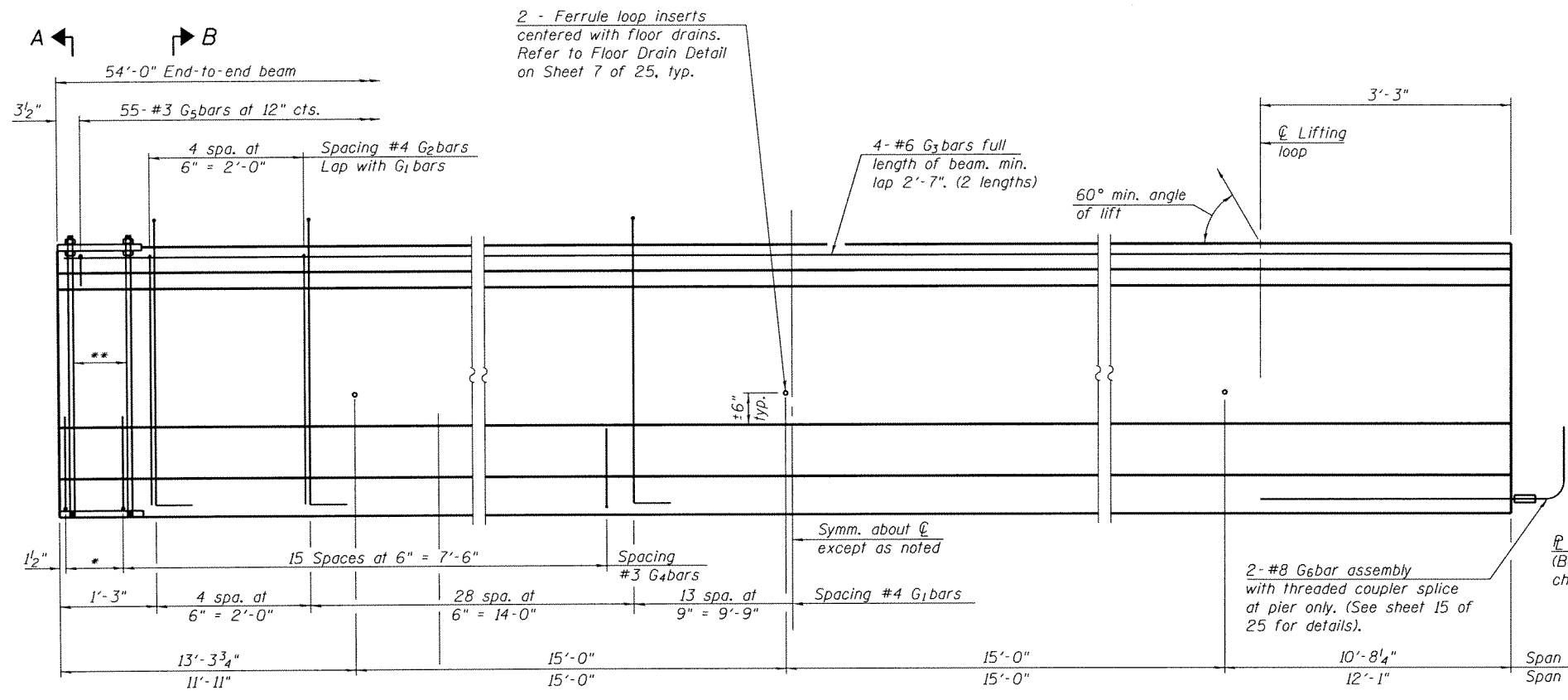
$I$ : Non-composite moment of inertia of beam section (in<sup>4</sup>).  
 $I'$ : Composite moment of inertia of beam section (in<sup>4</sup>).  
 $S_b$ : Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
 $S_b'$ : Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
 $S_t$ : Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
 $S_t'$ : Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
 $DC1$ : Un-factored non-composite dead load (kips/ft.).  
 $M_{DC1}$ : Un-factored moment due to non-composite dead load (kip-ft.).  
 $DC2$ : Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 $M_{DC2}$ : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
 $DW$ : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
 $M_{DW}$ : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 $M_L + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



**PLAN**

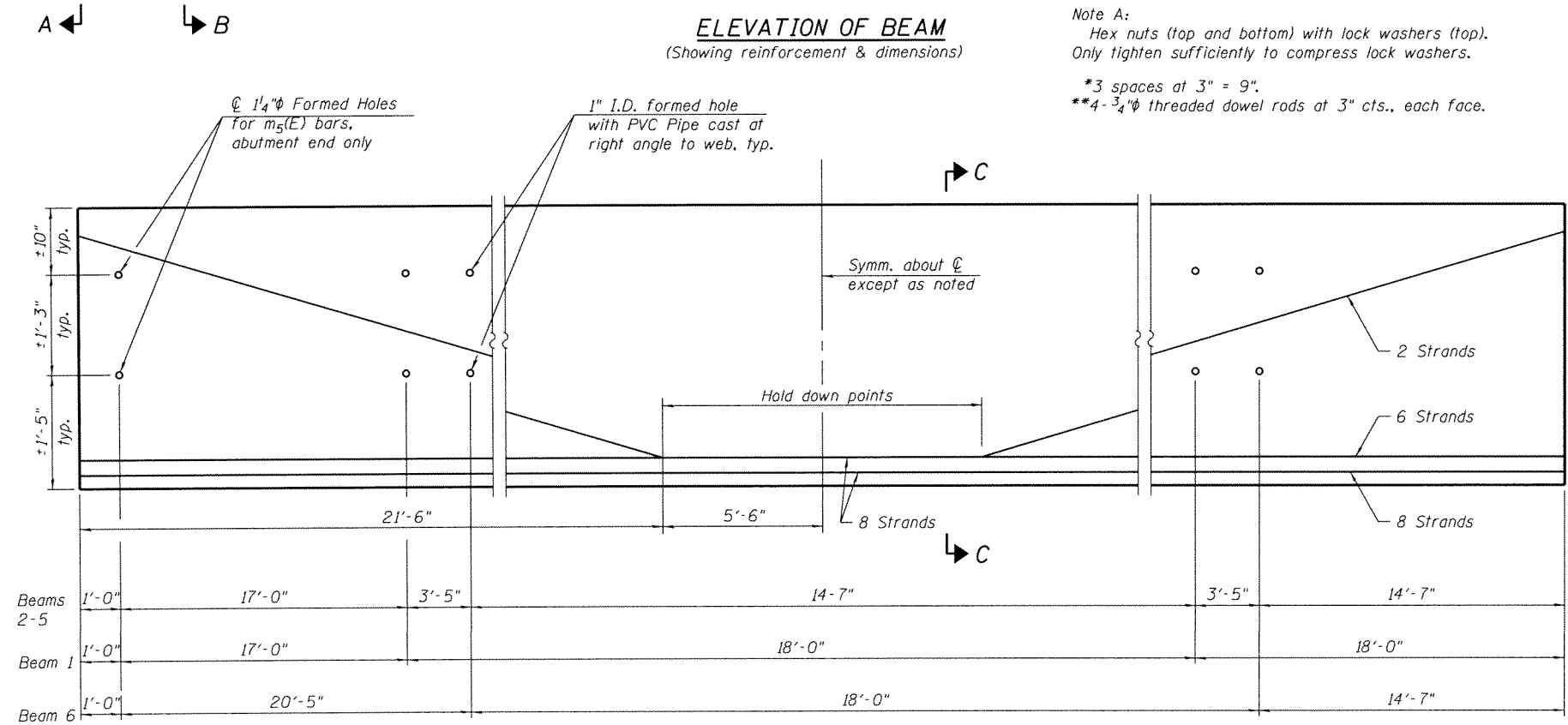
\*\*Cost included in Furnishing and Erecting  
 Precast Prestressed Concrete I-Beams, 42 Inch  
 See sheet 15 of 25 for details.

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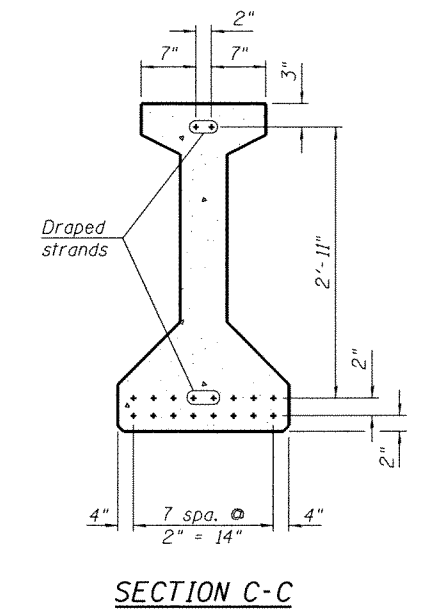


**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

Note A:  
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.  
\*3 spaces at 3" = 9".  
\*\*4-3/4" threaded dowel rods at 3" cts., each face.



**ELEVATION OF BEAM**  
(Showing prestressing steel and formed holes)



**SECTION C-C**

**\*\*\*BAR LIST  
ONE BEAM ONLY**

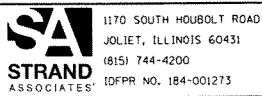
Bar	No.	Size	Length	Shape
G <sub>1</sub>	92	#4	8'-7"	∩L
G <sub>2</sub>	92	#4	6'-8"	∩
G <sub>3</sub>	8	#6	26'-0"	—
G <sub>4</sub>	40	#3	4'-11"	∩
G <sub>5</sub>	55	#3	2'-6"	∩
G <sub>6</sub>	2	#8	6'-6"	U

\*\*\*For information only  
Notes:  
See sheet 15 of 25 for additional details and Bill of Material.  
Required release strength, f'<sub>ci</sub>, shall be 5,000 psi.  
f'<sub>c</sub>=6,000 psi

FILE NAME = S:\JDL\63300-6399\6346\7A\Micros\CAD\Sheets\037\0054-64H02-013-BE-AM.dgn

PI-4-42

11-16-12



1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

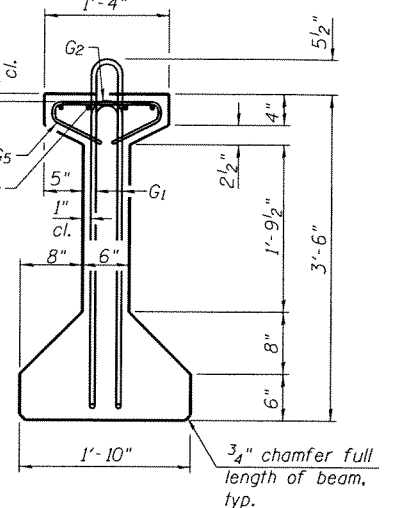
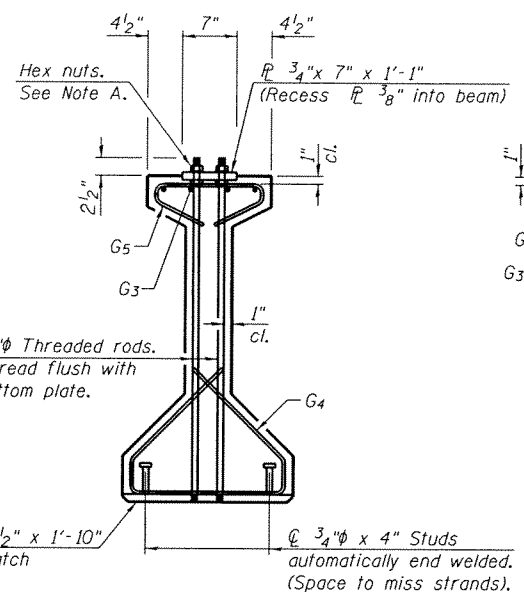
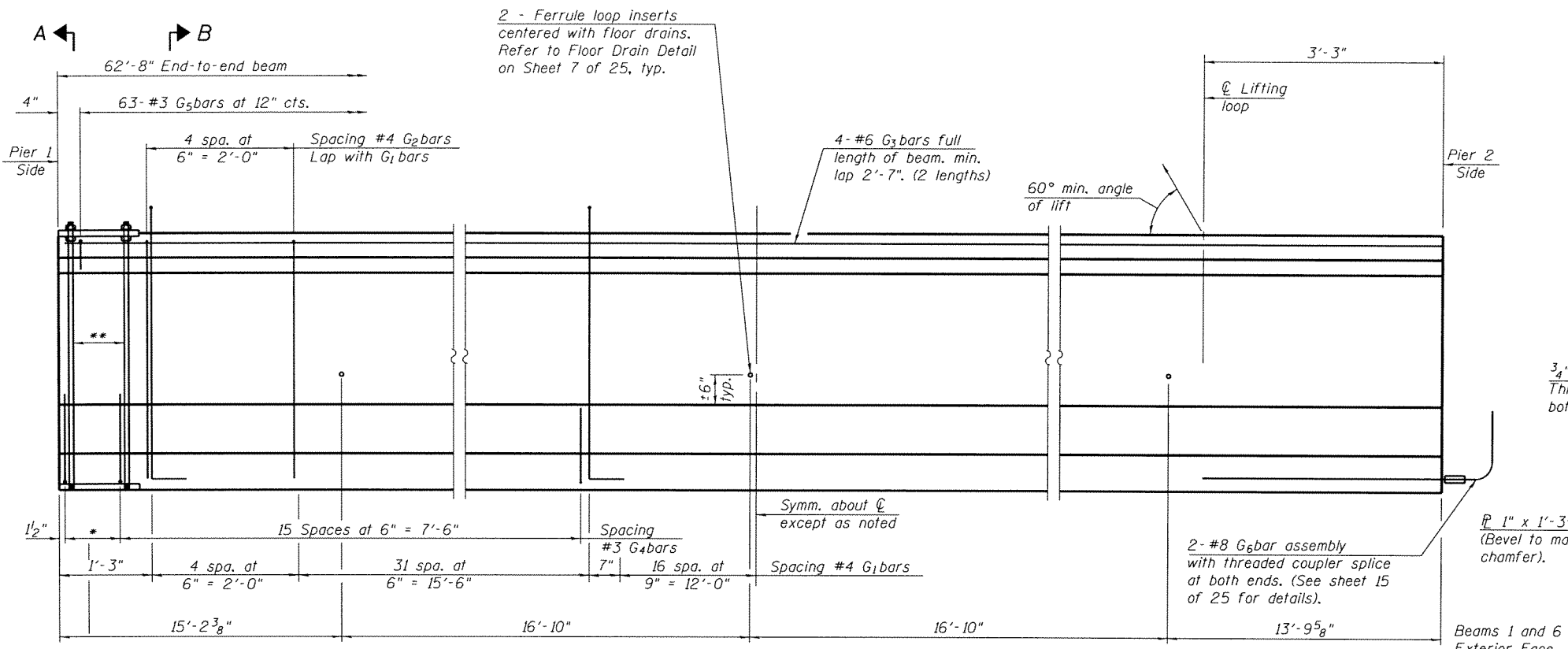
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DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
PLOT DATE = 3/18/2015  
REVISD -  
REVISD -  
REVISD -  
REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM SPANS 1 AND 3 (1 OF 2)  
STRUCTURE NO. 037-0054

SHEET NO. 13 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	42
				CONTRACT NO. 64H02
ILLINOIS FED. AID PROJECT				

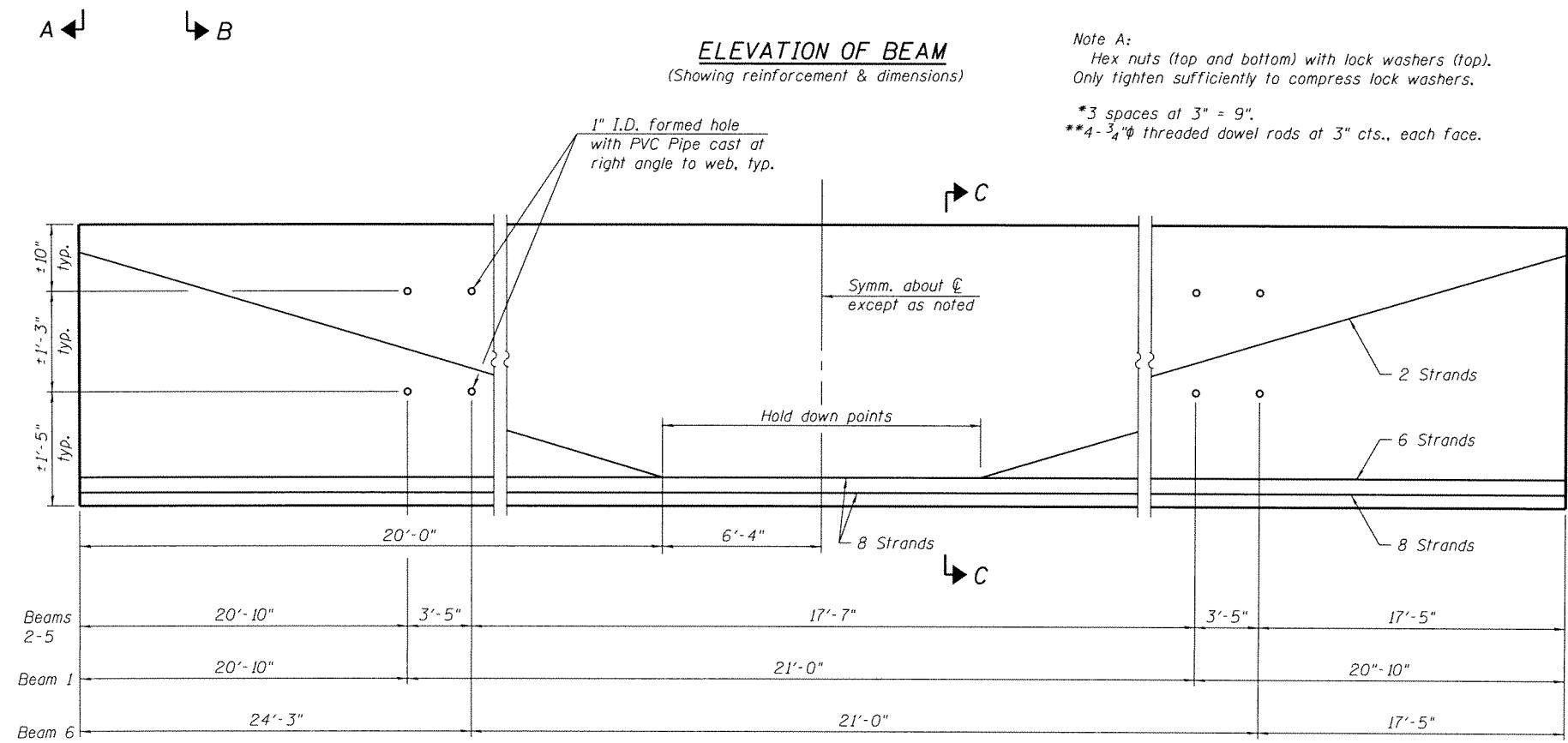


SECTION A-A

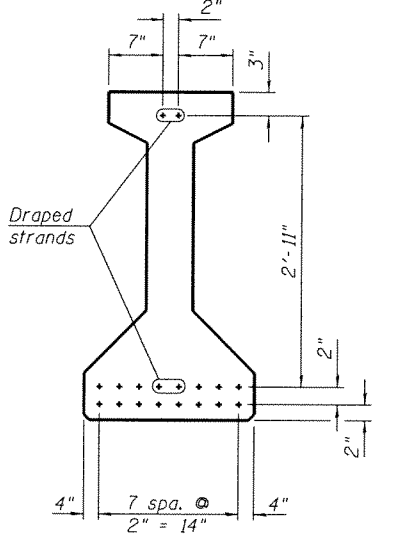
SECTION B-B

ELEVATION OF BEAM  
(Showing reinforcement & dimensions)

Note A:  
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.  
\*3 spaces at 3" = 9".  
\*\*4-3/4" threaded dowel rods at 3" cts., each face.



ELEVATION OF BEAM  
(Showing prestressing steel and formed holes)



SECTION C-C

\*\*\*BAR LIST  
ONE BEAM ONLY

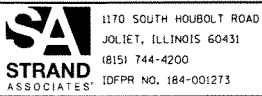
Bar	No.	Size	Length	Shape
G <sub>1</sub>	104	#4	8'-7"	∩L
G <sub>2</sub>	104	#4	6'-8"	∩
G <sub>3</sub>	8	#6	26'-0"	—
G <sub>4</sub>	40	#3	4'-11"	∩
G <sub>5</sub>	63	#3	2'-6"	∩
G <sub>6</sub>	4	#8	6'-6"	U

\*\*\*For information only  
Notes:  
See sheet 15 of 25 for additional details and Bill of Material.  
Required release strength, f'ci, shall be 5,000 psi.  
f'c=6,000 psi

FILE NAME : S:\JULI6380-6399\6346\07A\Micro\CAD\Drawings\0370054-64H02-013-BE.BM.dgn

PI-4-42

11-16-12



1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME : brianf	DESIGNED - RRD	REVISOR -
		CHECKED - AJS	REVISIONS -
	PLOT SCALE :	DRAWN - B,JF	REVISIONS -
	PLOT DATE : 3/18/2015	CHECKED - RRD	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM SPAN 2 (2 OF 2)  
STRUCTURE NO. 037-0054

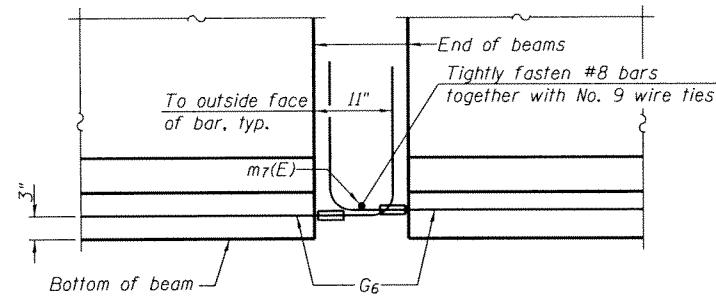
SHEET NO. 14 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 43
			CONTRACT NO. 64H02	

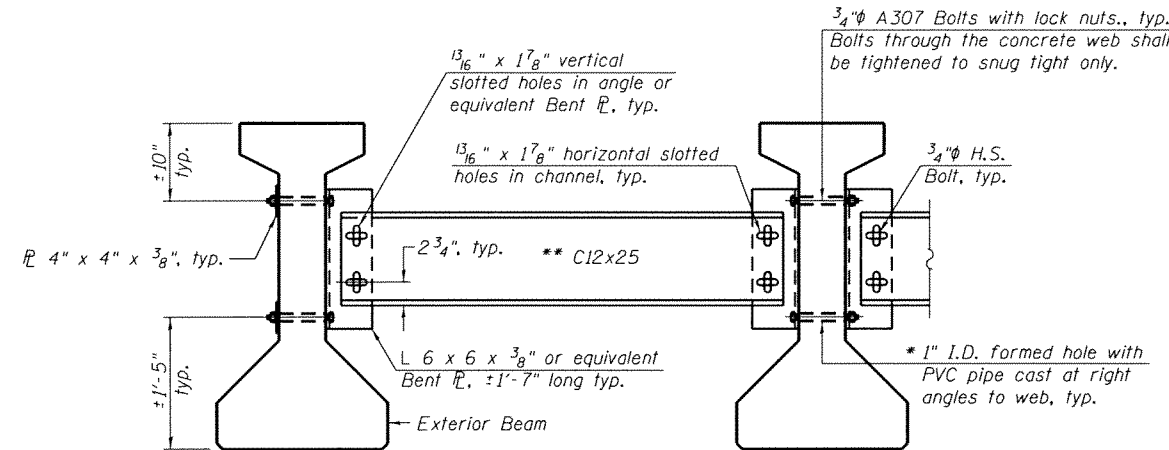
ILLINOIS FED. AID PROJECT

**NOTES**

Inserts for 3/4" threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
 A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling. Tilt G6 bars when necessary to maintain 1/2" clearance. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55. The G6 bar assembly shall be capable of developing 125 percent of the yield strength of the grade 60 reinforcement bar components. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar. Beams requiring G6 bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.



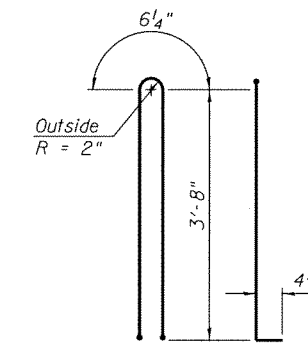
**ELEVATION OF BEAM AT PIER**



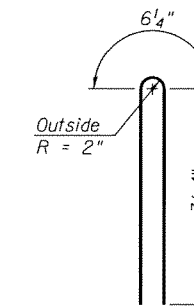
**Notes:**  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be 15/16" unless otherwise noted.  
 5/16" x 3" x 3" plate washers are required over all slotted holes.  
 All bolts shall be galvanized according to AASHTO M232.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

- \* Fabricator shall locate to miss strands within permissible tolerances.
- \*\* Alternate C12x30 channels are permitted to facilitate material acquisition.

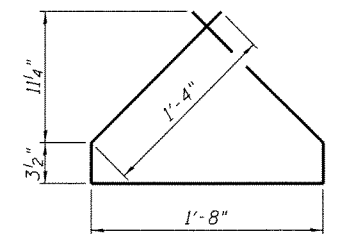
**PERMANENT BRACING DETAIL**



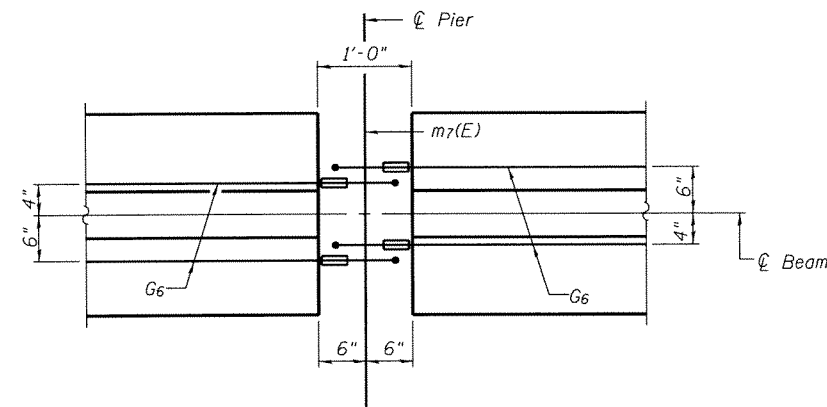
**BAR G1**



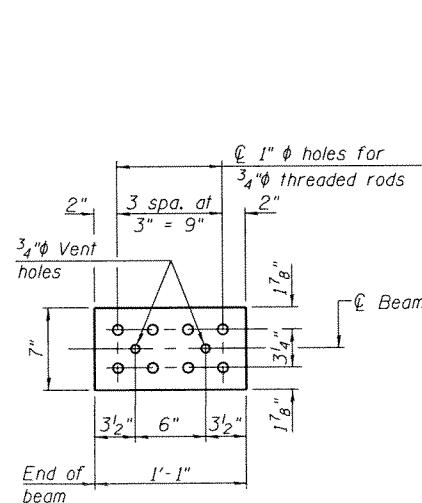
**BAR G2**



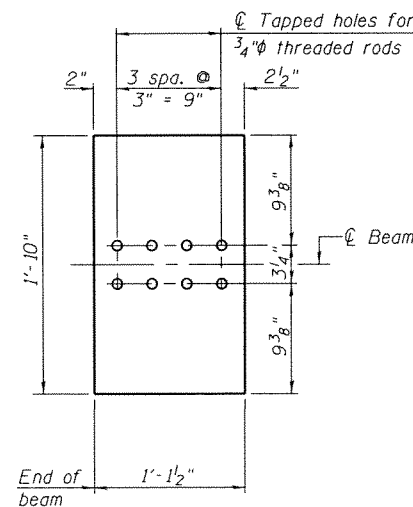
**BAR G4**



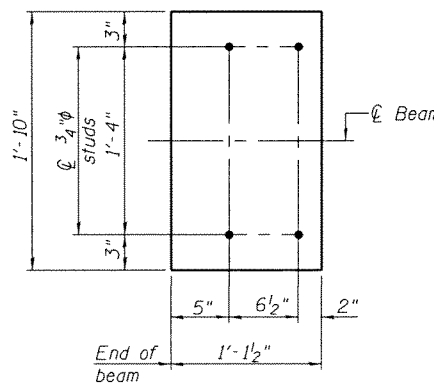
**PLAN OF BEAM AT PIER**



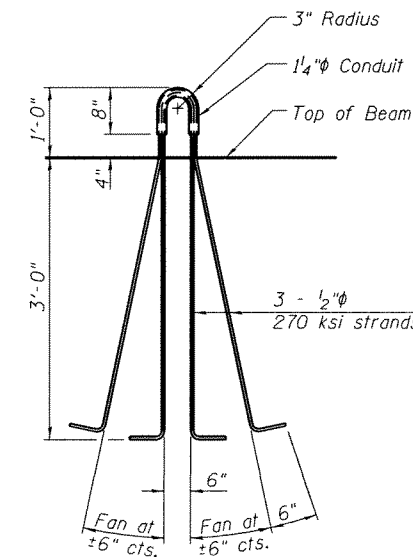
**TOP PLATE**



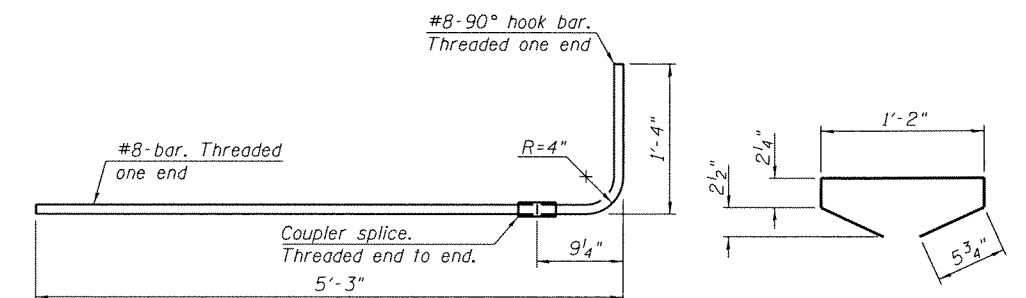
**BOTTOM PLATE (Showing threaded rods)**



**BOTTOM PLATE (Showing studs)**



**LIFTING LOOP DETAIL**



**G6 BAR ASSEMBLY**

**BAR G5**

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 IN	Ft.	1,024

FILE NAME : S:\JOL\_6380-6399\6346\07A\Micros\CADD\_Sheets\0378054-64H02-015-BEAMDET.dgn

**SA STRAND ASSOCIATES**  
 1170 SOUTH HOUBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
 IDFFR NO. 184-001273

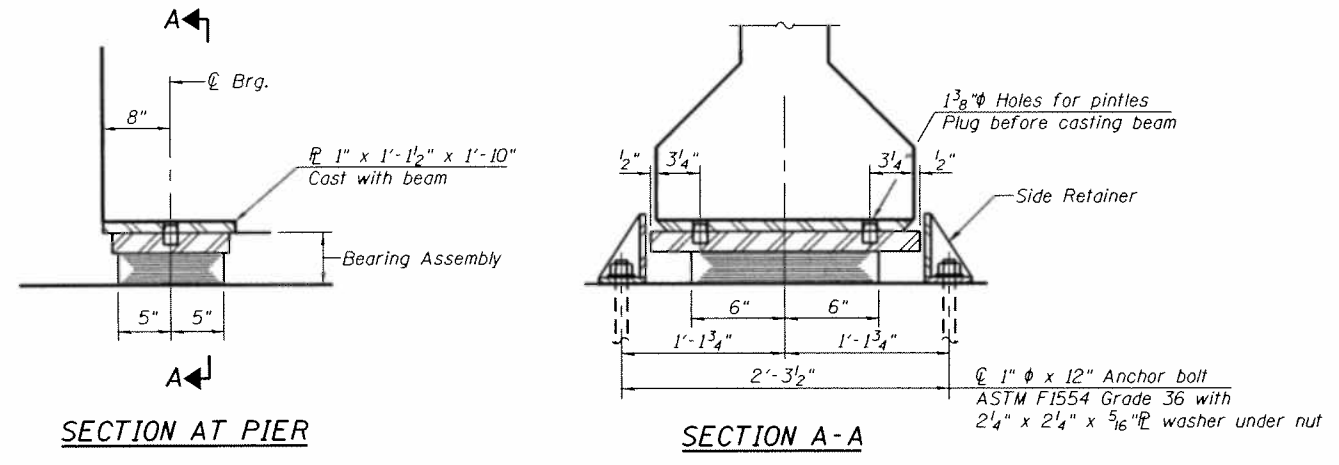
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 DESIGNED - RRD  
 CHECKED - AJS  
 DRAWN - BJF  
 CHECKED - RRD  
 PLOT SCALE =  
 PLOT DATE = 3/18/2015

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

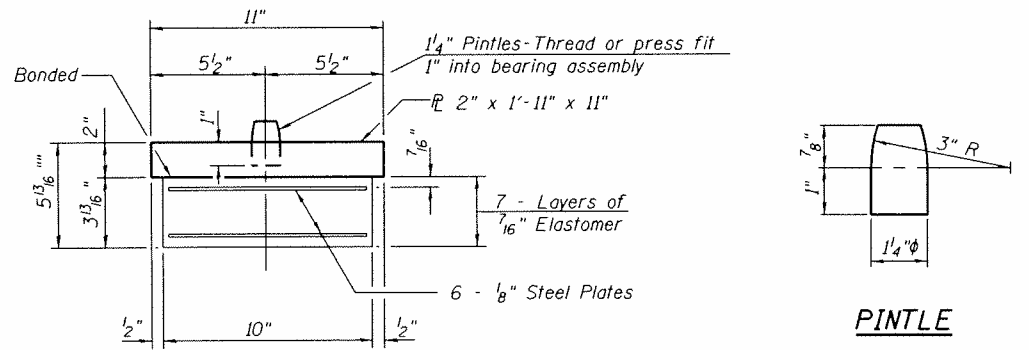
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM DETAILS  
 STRUCTURE NO. 037-0054  
 SHEET NO. 15 OF 25 SHEETS

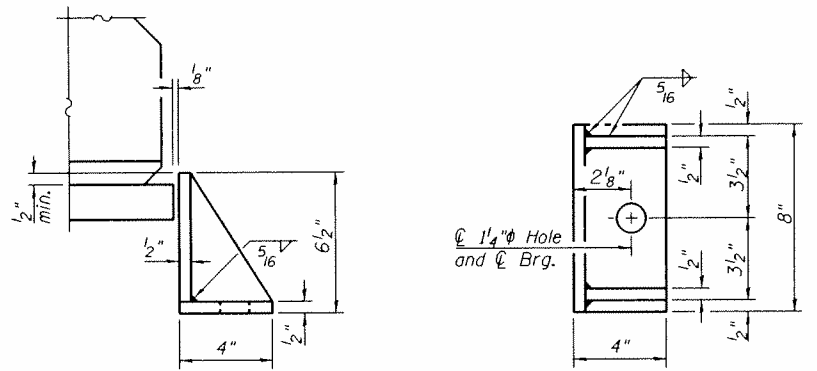
F.A.P. RTE. 37  
 SECTION 10BR-1  
 COUNTY HENRY  
 TOTAL SHEETS 95  
 SHEET NO. 44  
 CONTRACT NO. 64H02  
 ILLINOIS FED. AID PROJECT



**TYPE I ELASTOMERIC EXP. BRG. AT PIER 2**



**BEARING ASSEMBLY AT PIER 2**



**SIDE RETAINER**  
Equivalent rolled angle with stiffeners  
will be allowed in lieu of welded plates.

**Notes:**

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be cast in place or installed in holes drilled after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

See sheet 15 of 25 for additional details of plate cast with beam.

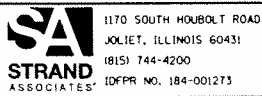
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1 1/2"	Each	4

FILE NAME : S:\JOL. 6388--6398\6346\07A\Micros\CADD\Sheets\0378054-64H02-016-BEARDET.dgn

PI-2E-1 1-27-12

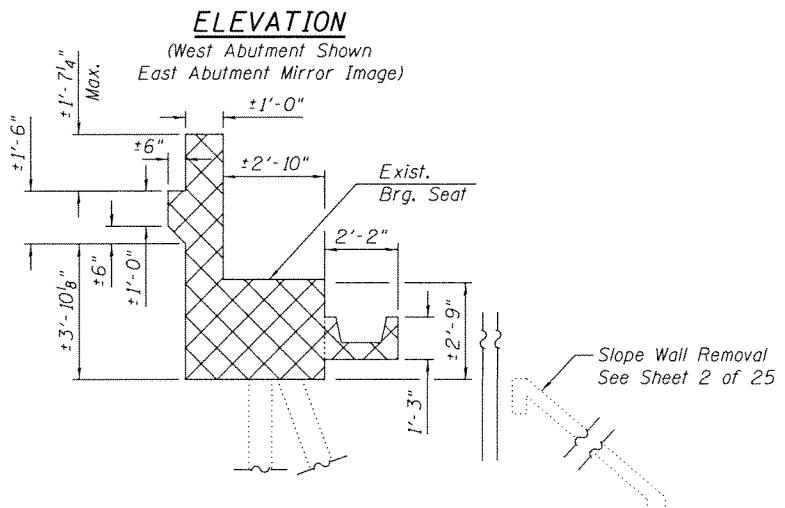
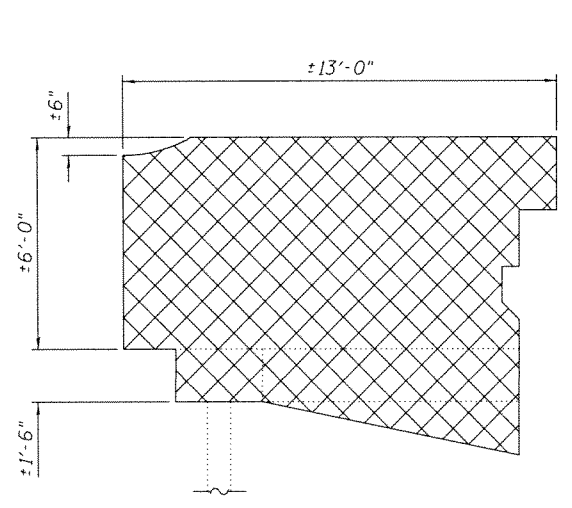
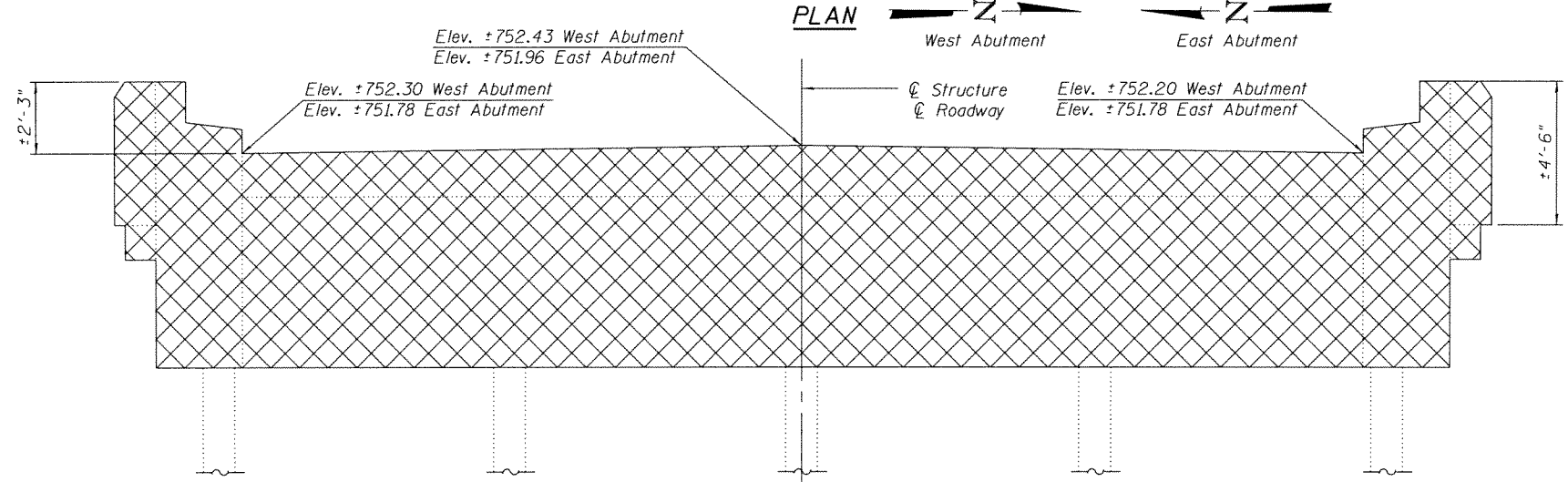
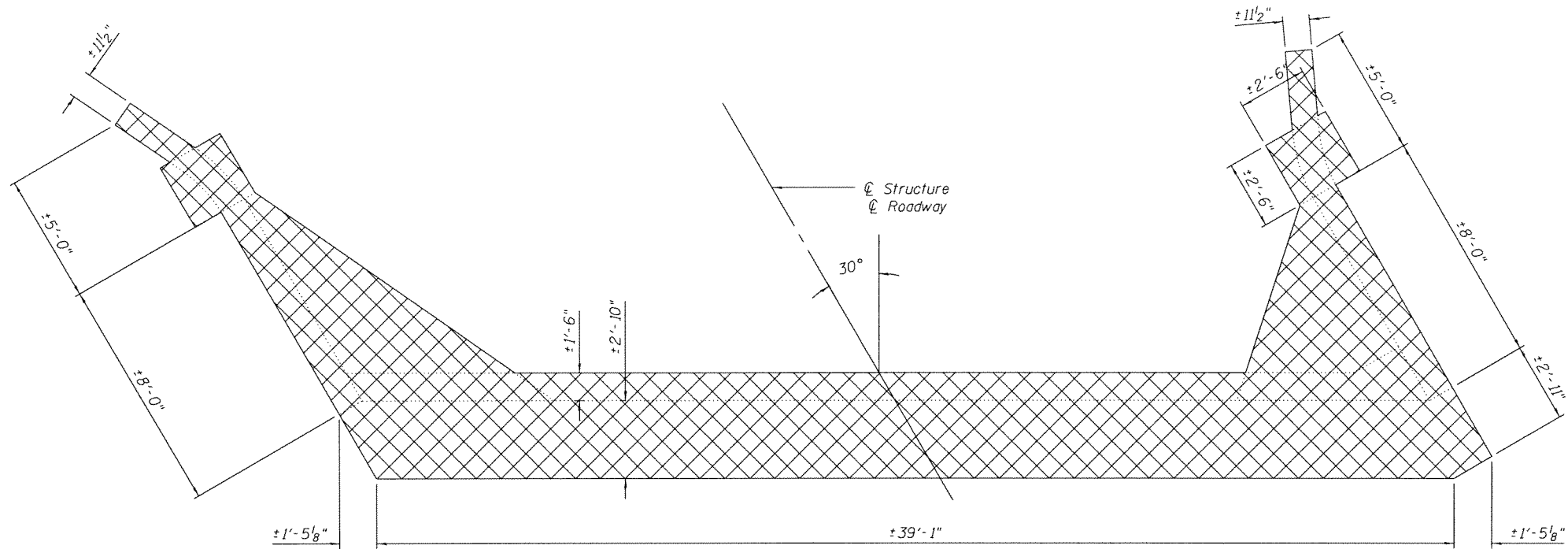


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		CHECKED -	AJS	REVISED -	
PLOT SCALE =		DRAWN -	BJF	REVISED -	
PLOT DATE =	3/18/2015	CHECKED -	RRD	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

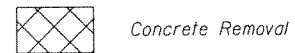
**BEARING DETAILS  
STRUCTURE NO. 037-0054**  
SHEET NO. 16 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3T	10BR-1	HENRY	95	45
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



Notes:  
If an existing pile interferes with the proposed riprap construction, it shall be removed per Article 501.04 of the Specifications. Any pile removal required is included in the cost of Concrete Removal.

**LEGEND**



**WINGWALL ELEVATION**  
(Horiz. dim. @ Rt. L's)

**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	74

FILE NAME = SA\JDL\6380--6395\6346\074\Micros\CADD\_Sheets\037\0054-64H02-017-ABUTRREM.dgn

**SA STRAND ASSOCIATES**  
1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

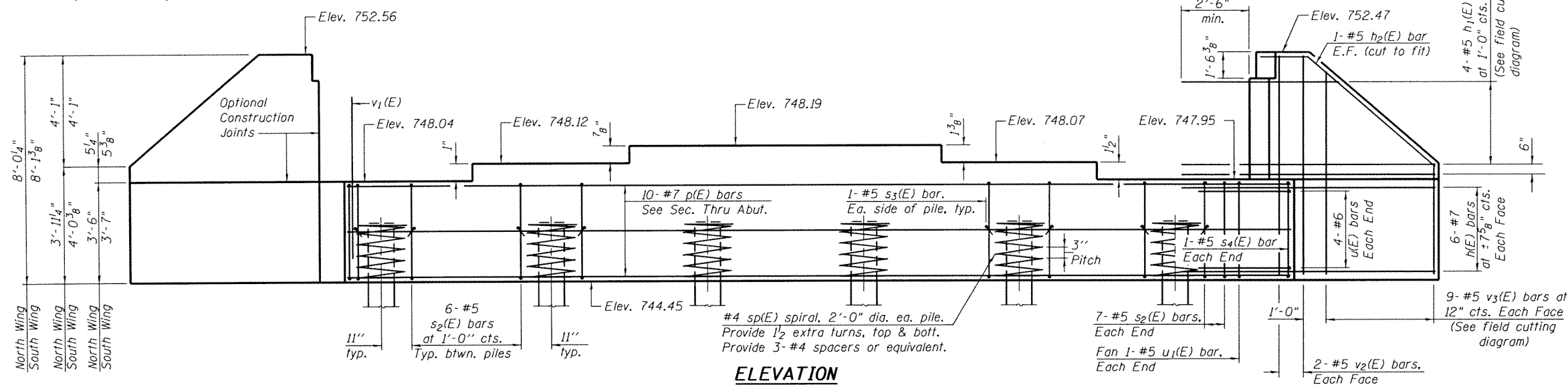
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PLLOT SCALE =	CHECKED - AJS	REVISED -
PLLOT DATE = 3/18/2015	DRAWN - BJF	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

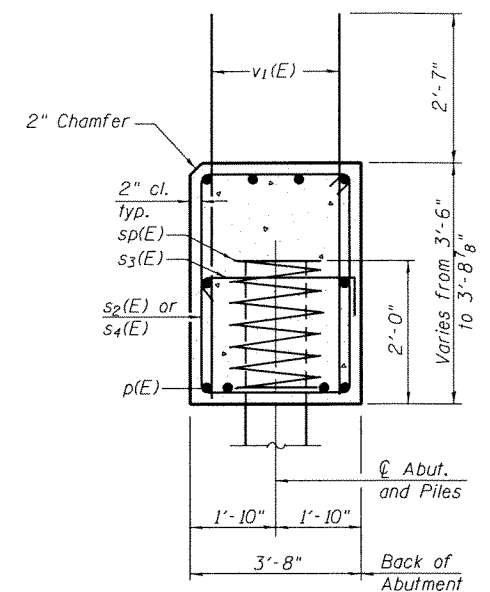
**ABUTMENT REMOVAL DETAILS**  
**STRUCTURE NO. 037-0054**  
SHEET NO. 17 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H02	

Notes:  
Pour steps monolithically with cap.

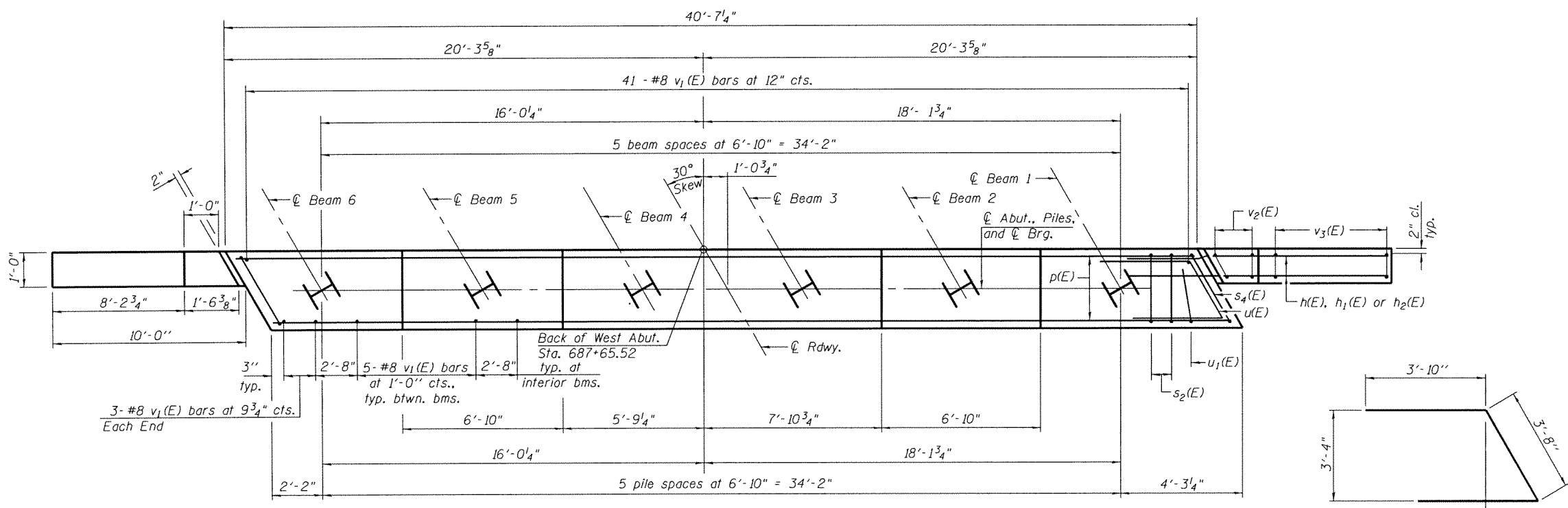


**ELEVATION**



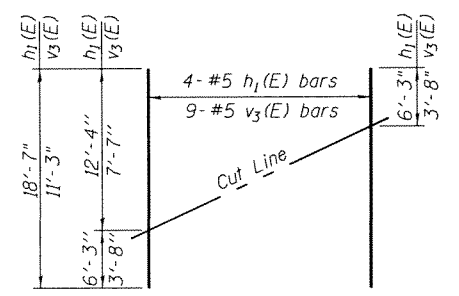
**SEC. THRU ABUT.**

Dimensions at right angles to abutment.



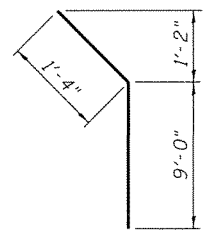
**PLAN**

**PILE DATA**  
Type: HP 14x73 (with pile shoes)  
Nominal Required Bearing: 327 Kips  
Factored Resistance Available: 180 Kips  
Est. Length: 20 Ft.  
No. Production Piles: 5  
No. Test Piles: 1

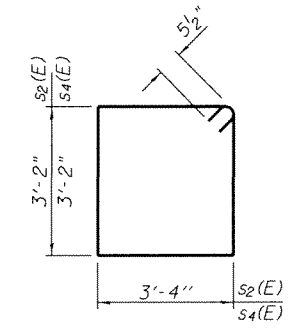


**FIELD CUTTING DIAGRAM**

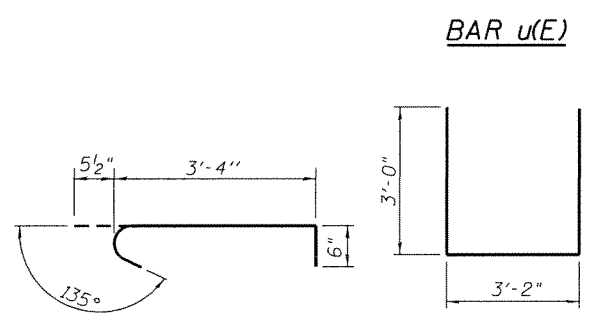
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**BAR h2(E)**



**BAR s2(E) & s4(E)**



**BAR s3(E)**

**BAR u1(E)**

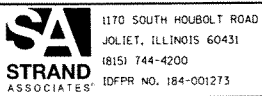
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	24	#7	16'-9"	—
h1(E)	8	#5	18'-7"	—
h2(E)	4	#5	10'-2"	—
p(E)	10	#7	40'-7"	—
s2(E)	4	#5	13'-11"	□
s3(E)	12	#5	4'-4"	□
s4(E)	2	#5	14'-11"	□
sp(E)	6	#4	2'-0"	≡≡≡
u(E)	8	#6	11'-4"	—
u1(E)	2	#5	9'-2"	—
v1(E)	67	#8	5'-11"	—
v2(E)	8	#5	7'-8"	—
v3(E)	18	#5	11'-3"	—
Structure Excavation		Cu. Yd.	133	
Concrete Structures		Cu. Yd.	25	
Reinforcement Bars, Epoxy Coated		Pound	3,770	
Furnishing Steel Piles HP 14x73		Foot	100	
Driving Piles		Foot	100	
Test Pile Steel HP 14x73		Each	1	
Pile Shoes		Each	6	

\* Length is height of spiral.  
For details of piles see sheet 22 of 25.

AI-40S-L

8-31-12



1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

USER NAME = briantf  
DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
PLOT SCALE =  
PLOT DATE = 3/18/2015  
REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

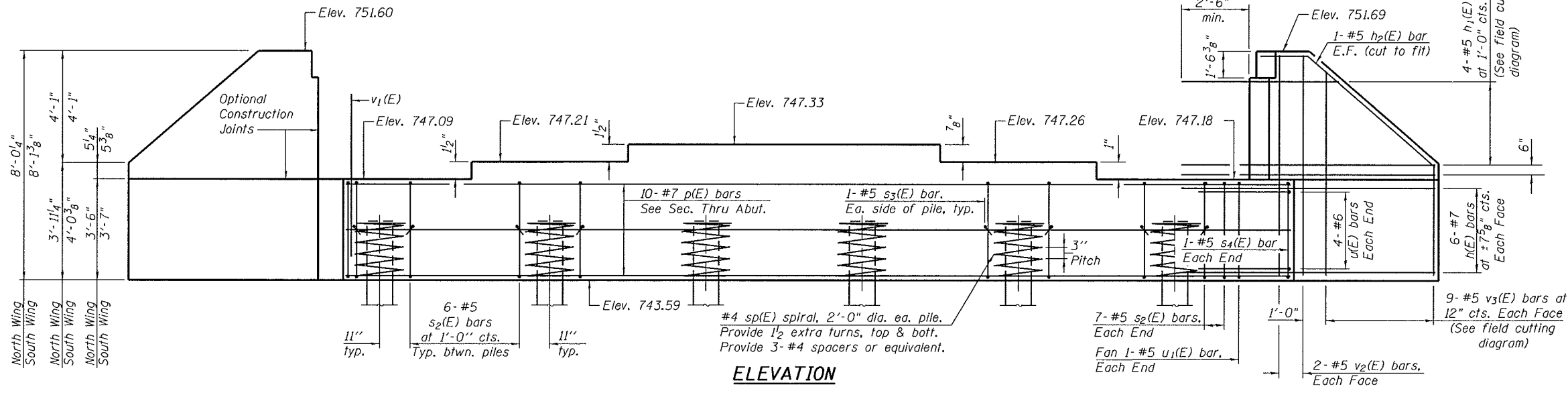
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS  
STRUCTURE NO. 037-0054

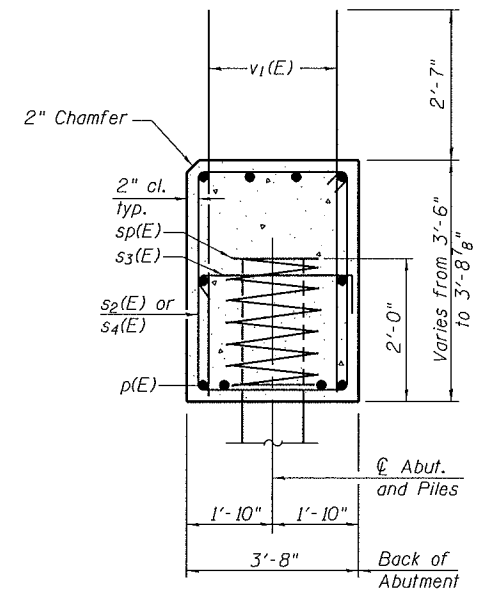
SHEET NO. 18 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	47
				CONTRACT NO. 64H02
ILLINOIS FED. AID PROJECT				

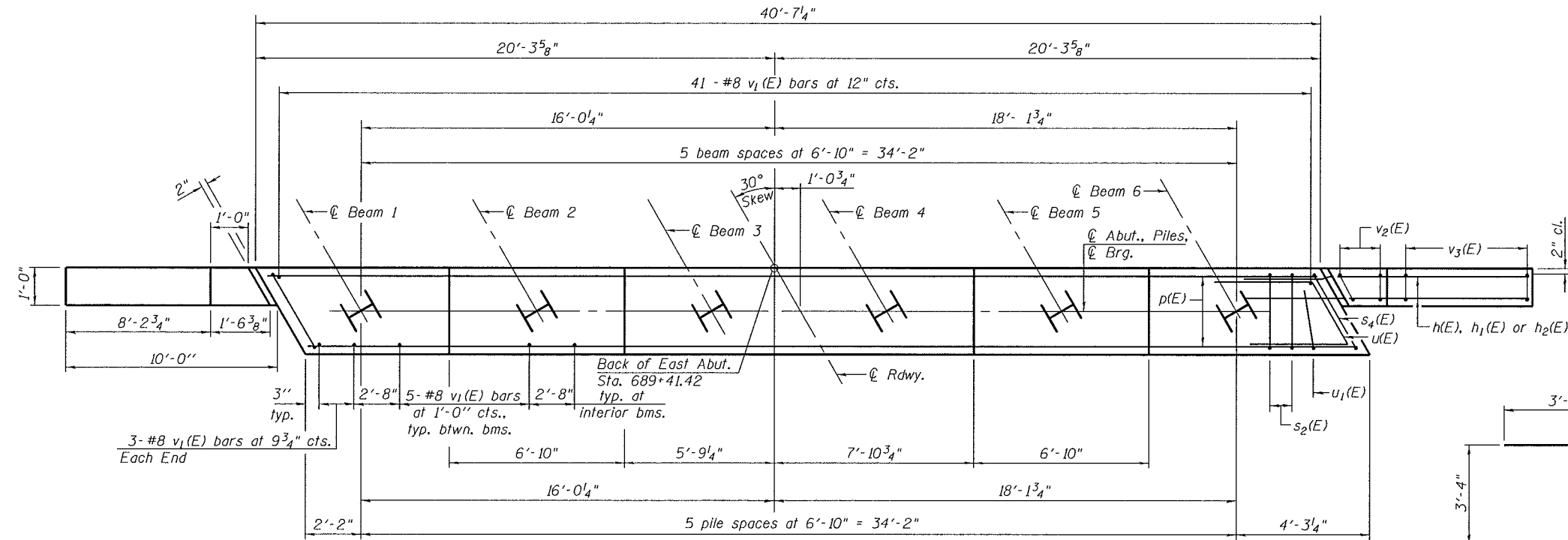
Notes:  
Pour steps monolithically with cap.



**ELEVATION**



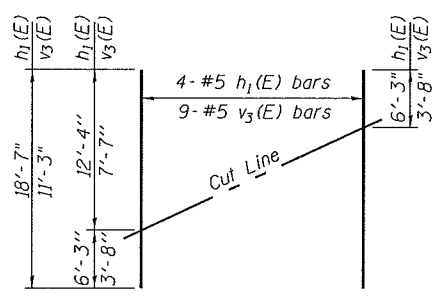
**SEC. THRU ABUT.**  
Dimensions at right angles to abutment.



**PLAN**

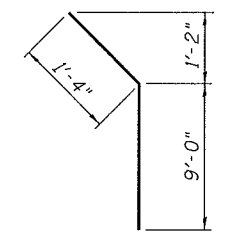
**PILE DATA**

Type: HP 14x73 (with pile shoes)  
Nominal Required Bearing: 327 Kips  
Factored Resistance Available: 180 Kips  
Est. Length: 36 Ft.  
No. Production Piles: 5  
No. Test Piles: 1

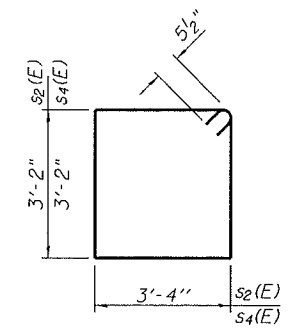


**FIELD CUTTING DIAGRAM**

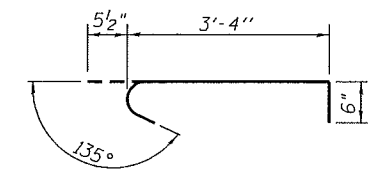
Order h<sub>1</sub>(E) and v<sub>3</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



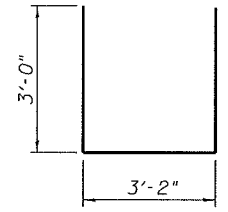
**BAR h<sub>2</sub>(E)**



**BAR s<sub>2</sub>(E) & s<sub>4</sub>(E)**



**BAR s<sub>3</sub>(E)**



**BAR u<sub>1</sub>(E)**

**BILL OF MATERIAL**

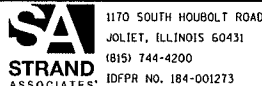
Bar	No.	Size	Length	Shape
h(E)	24	#7	16'-9"	—
h <sub>1</sub> (E)	8	#5	18'-7"	—
h <sub>2</sub> (E)	4	#5	10'-2"	—
p(E)	10	#7	40'-7"	—
s <sub>2</sub> (E)	4	#5	13'-11"	□
s <sub>3</sub> (E)	12	#5	4'-4"	□
s <sub>4</sub> (E)	2	#5	14'-11"	□
sp(E)	6	#4	2'-0"	WWW
u(E)	8	#6	11'-4"	—
u <sub>1</sub> (E)	2	#5	9'-2"	—
v <sub>1</sub> (E)	67	#8	5'-11"	—
v <sub>2</sub> (E)	8	#5	7'-8"	—
v <sub>3</sub> (E)	18	#5	11'-3"	—
Structure Excavation		Cu. Yd.	133	
Concrete Structures		Cu. Yd.	25	
Reinforcement Bars, Epoxy Coated		Pound	3,770	
Furnishing Steel Piles HP 14x73		Foot	180	
Driving Piles		Foot	180	
Test Pile Steel HP 14x73		Each	1	
Pile Shoes		Each	6	

\* Length is height of spiral.  
For details of piles see sheet 22 of 25.

FILE NAME = S:\JDL\6398--6399\6346\974\Micros\CADD\_Sheets\0370054-64H02-019-ABUT.dgn

AI->40S-L

8-31-12



1170 SOUTH HOBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-00123

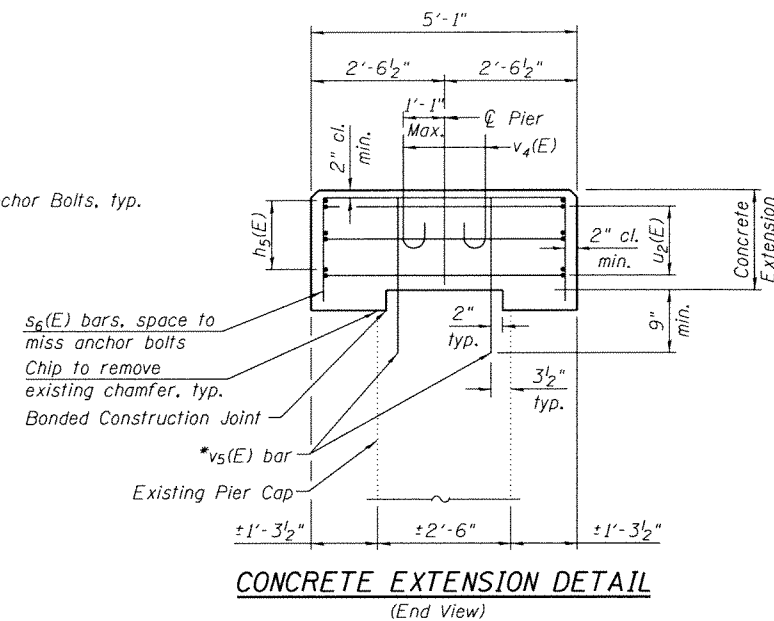
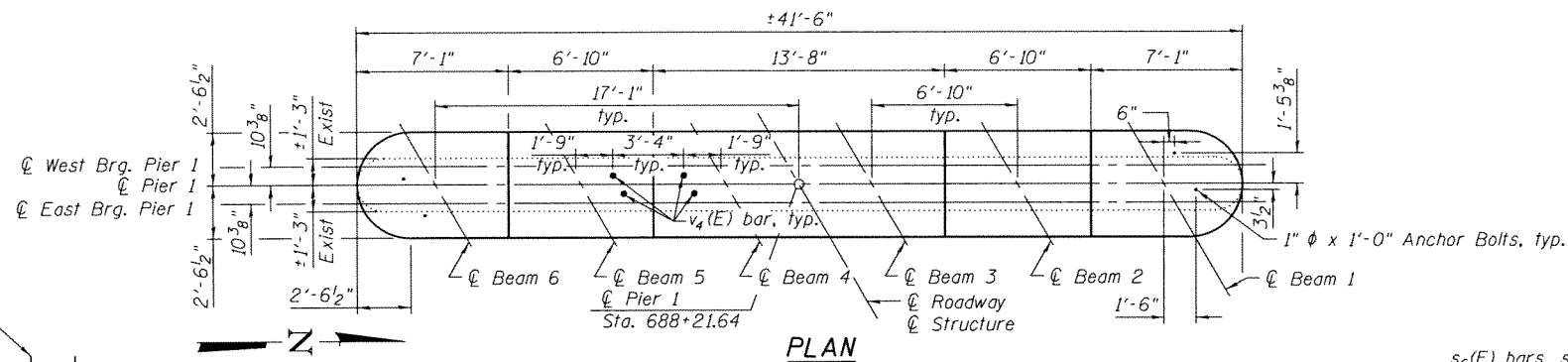
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PLLOT DATE =	7/29/2015	DRAWN -	BJF	REVISED -	
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

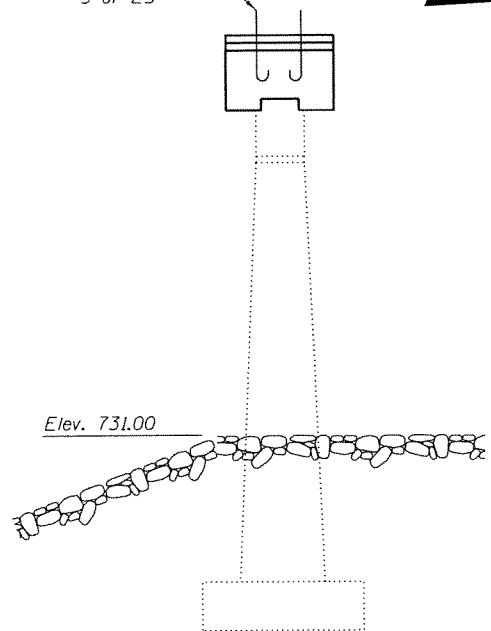
EAST ABUTMENT DETAILS  
STRUCTURE NO. 037-0054  
SHEET NO. 19 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY		
				CONTRACT NO. 64H02
ILLINOIS FED. AID PROJECT				

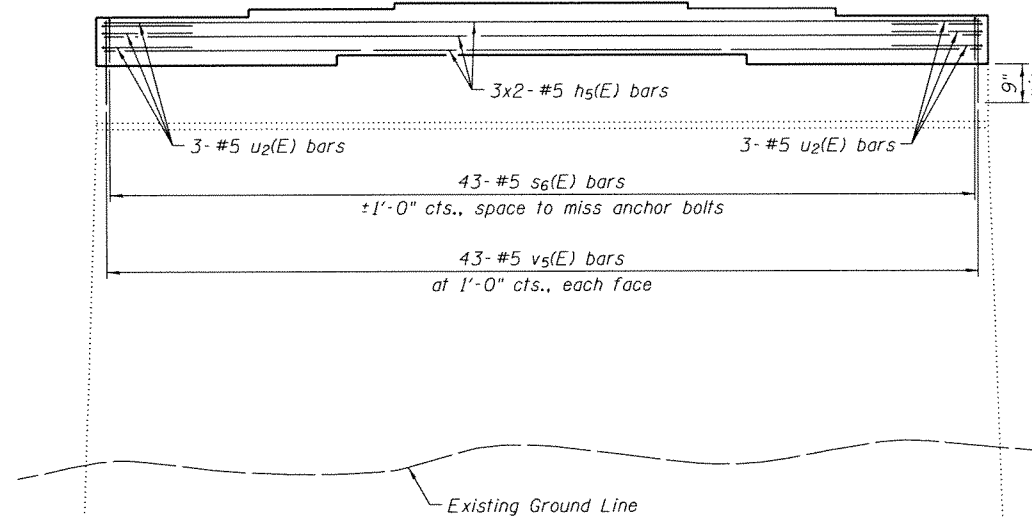




\*Place bars in 9" min. drilled holes in the top of existing pier cap. Epoxy grout according to Section 584 of the Standard Specifications. Cost included with cost of Reinforcement Bars, Epoxy Coated.



**NORTH**

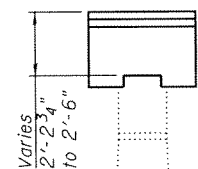


**EAST FACE**

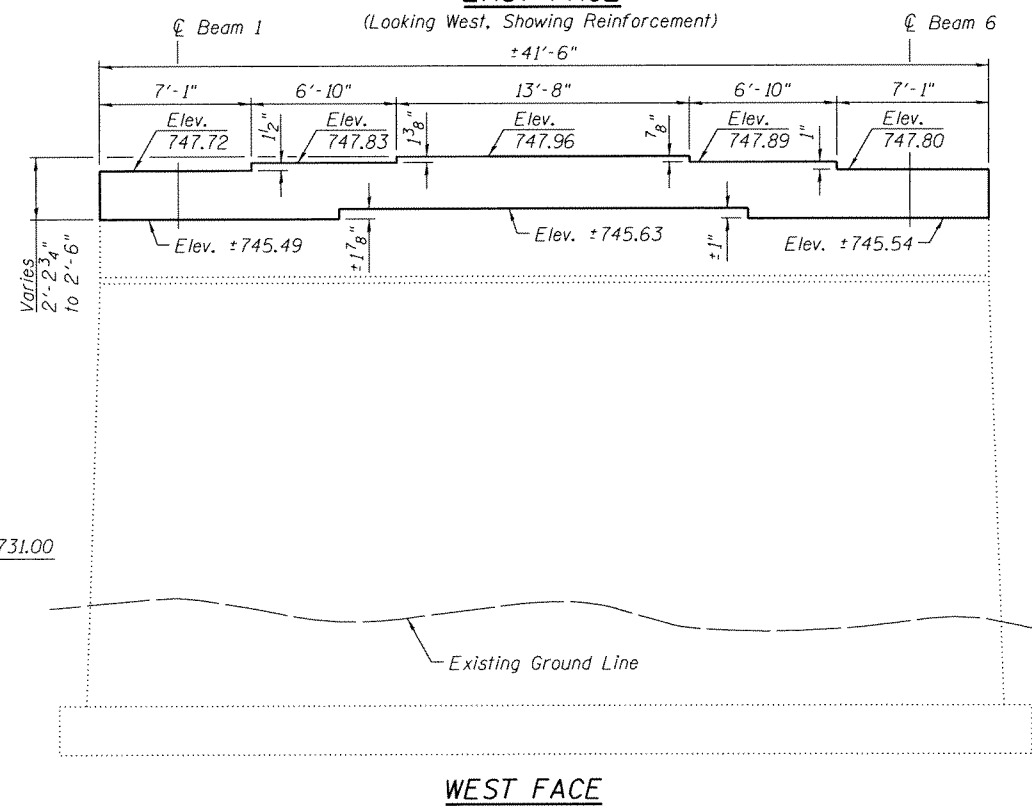
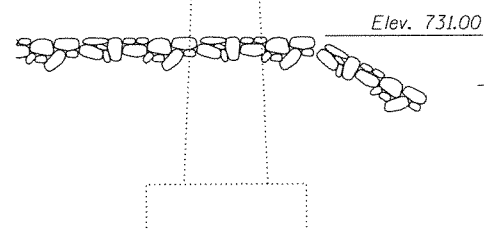
(Looking West, Showing Reinforcement)

**MINIMUM BAR LAP**

#5 bar = 3'-3"

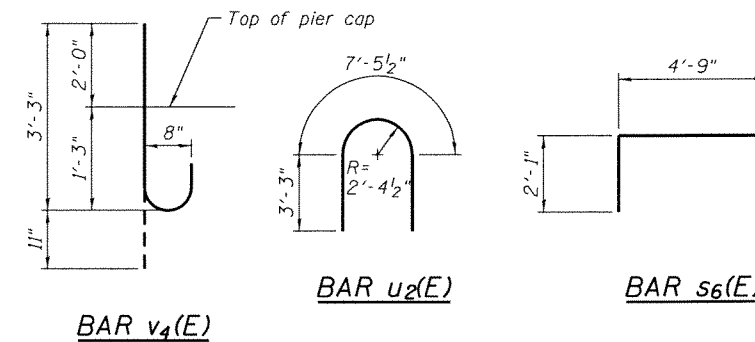


**SOUTH**



**WEST FACE**

(Looking East, Showing Geometry)



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h5(E)	12	#5	22'-6"	—
s6(E)	43	#5	8'-11"	□
u2(E)	6	#5	14'-0"	U
v4(E)	30	#8	4'-2"	⌋
v5(E)	86	#5	2'-10"	—
Concrete Structures		Cu. Yd.		19
Reinforcement Bars, Epoxy Coated		Pound		1,360

Bars indicated thus 1x4- #5 etc. indicates 1 line of bar with 4 lengths per line

FILE NAME = S:\JDL\6380-6399\6346\974\Micros\CADD\Sheets\0378054-64H02-020-REPAIR01.dgn

**SA STRAND ASSOCIATES**  
1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

USER NAME = brianf  
DESIGNED - RRD  
CHECKED - AJS  
DRAWN - BJF  
PLOT SCALE =  
PLOT DATE = 3/18/2015

DESIGNED - RRD  
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REVISED -  
REVISED -  
REVISED -  
REVISED -

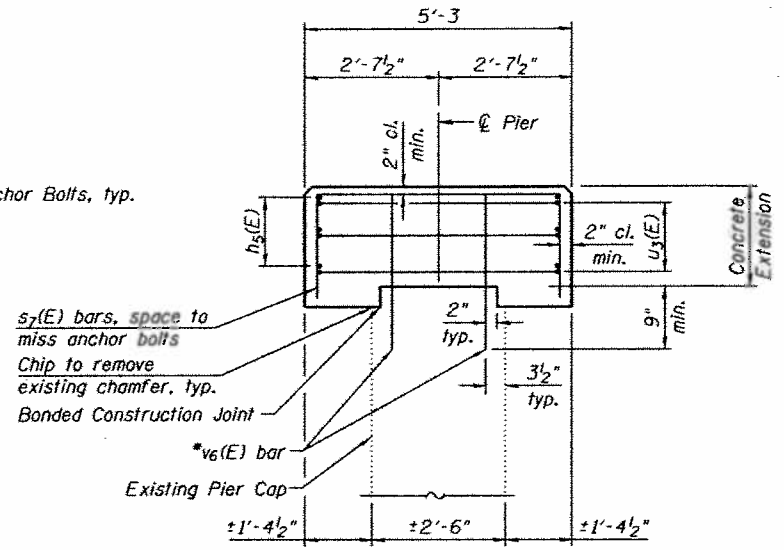
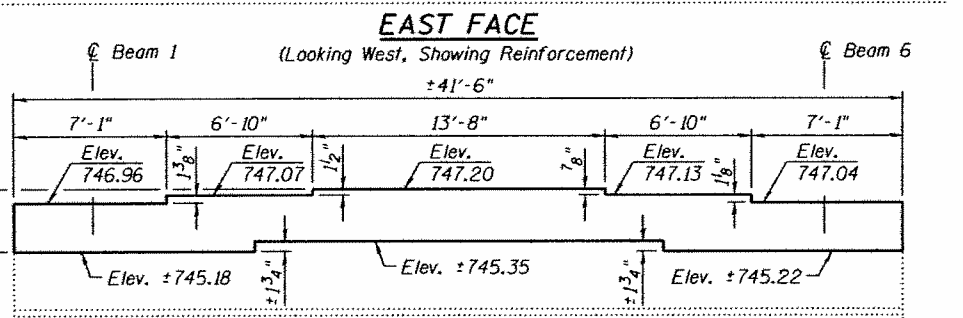
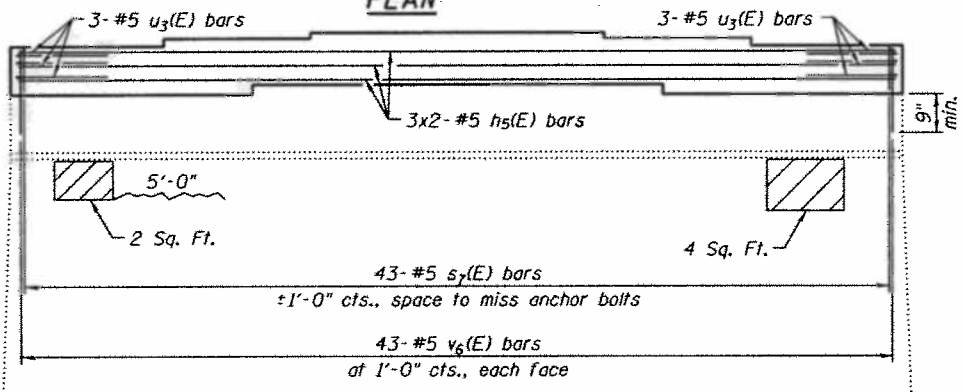
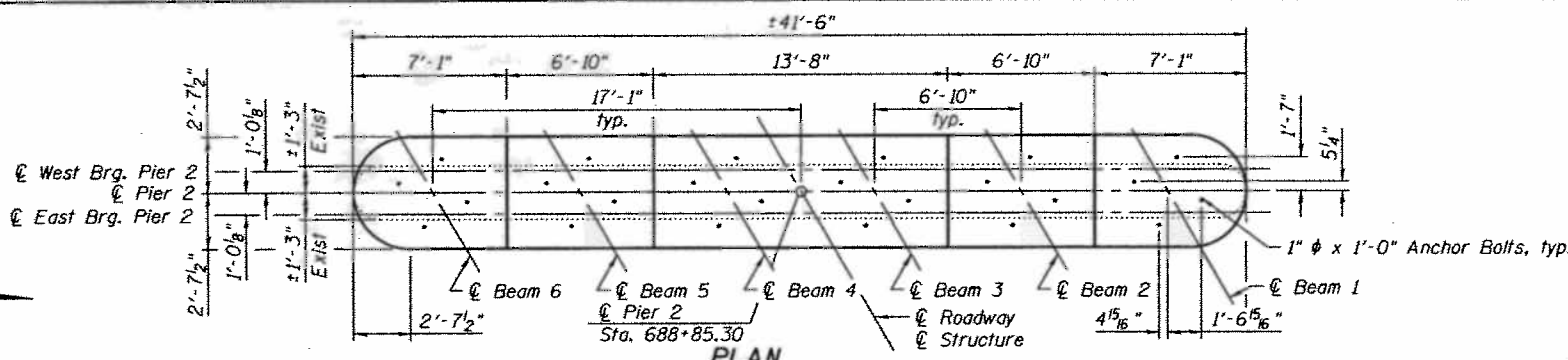
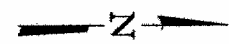
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 1 DETAILS  
STRUCTURE NO. 037-0054**

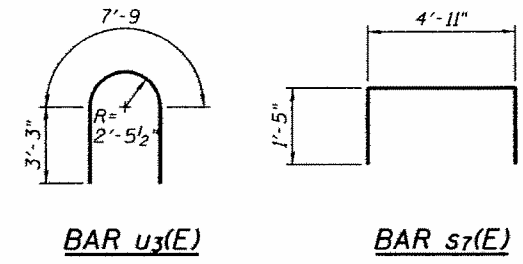
SHEET NO. 20 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	49
CONTRACT NO. 64H02				

ILLINOIS FED. AID PROJECT



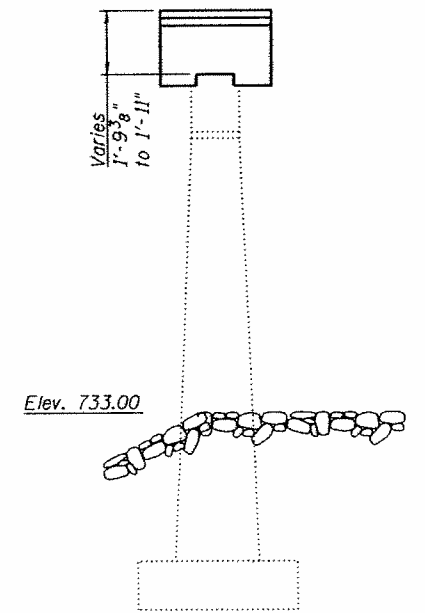
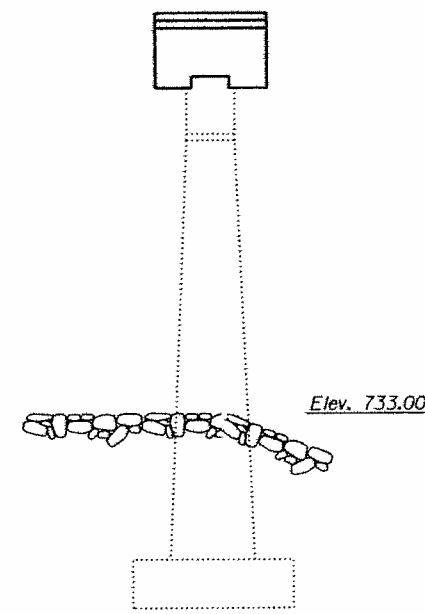
\*Place bars in 9" min. drilled holes in the top of existing pier cap. Epoxy grout according to Section 584 of the Standard Specifications. Cost included with cost of Reinforcement Bars, Epoxy Coated.



**LEGEND**

- Structural Repair of Concrete (Depth Equal or Less Than 5 Inches)
- Epoxy Crack Injection

**MINIMUM BAR LAP**  
#5 bar = 3'-3"

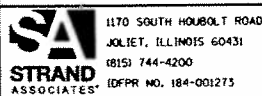


**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h5(E)	12	#5	22'-6"	—
s7(E)	43	#5	7'-9"	□
u3(E)	6	#5	14'-3"	∩
v6(E)	86	#5	2'-4"	—
Concrete Structures			Cu. Yd.	15
Reinforcement Bars, Epoxy Coated			Pound	930
Epoxy Crack Injection			Foot	5
Structural Repair of Concrete (Depth Equal or Less Than 5 Inches)			Sq. Ft.	6

Bars indicated thus 1x4-#5 etc. indicates 1 line of bar with 4 lengths per line

FILE NAME : S:\JULIA\6398--6399\6346\074\Micros\CADD\Sheets\0378854-64H02-021-REPAIRSET.dgn



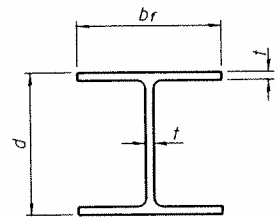
1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
815/744-4200  
IDPR NO. 184-001273

USER NAME : brianf	DESIGNED - RRD	REVISD -
CHECKED - AJS	REVISD -	
DRAWN - B.J.F	REVISD -	
CHECKED - RRD	REVISD -	
PLOT SCALE *		
PLOT DATE * 3/18/2015		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

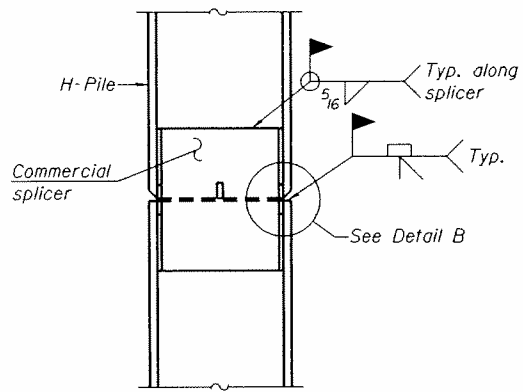
**PIER 2 DETAILS**  
**STRUCTURE NO. 037-0054**  
SHEET NO. 21 OF 25 SHEETS

F.A.P. RTE. 37	SECTION IDBR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 50
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	

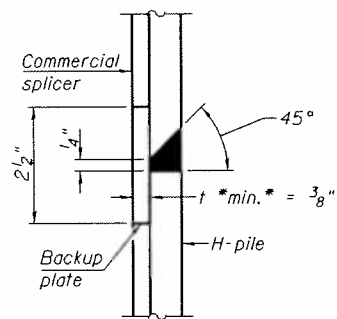


**STEEL PILE TABLE**

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	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"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 5/8"	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 3/8"	7/16"	18"

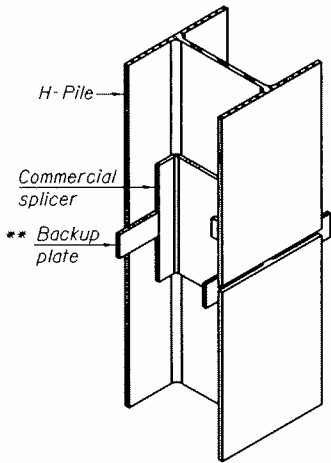


**ELEVATION**

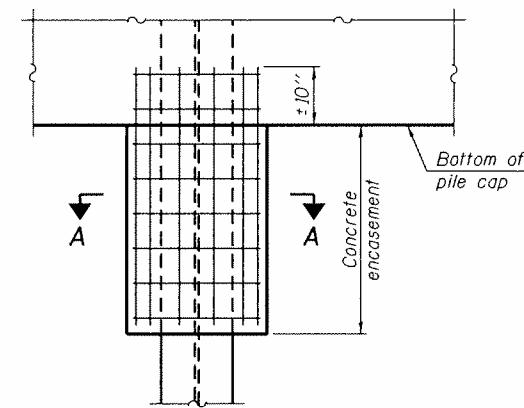


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**

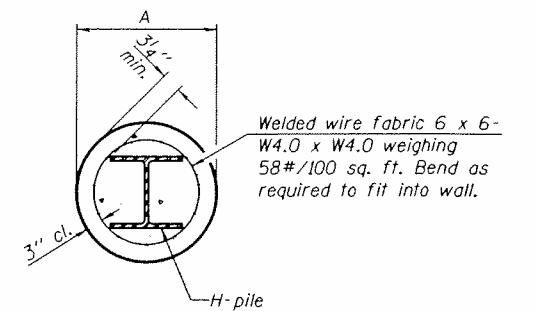


**ISOMETRIC VIEW**



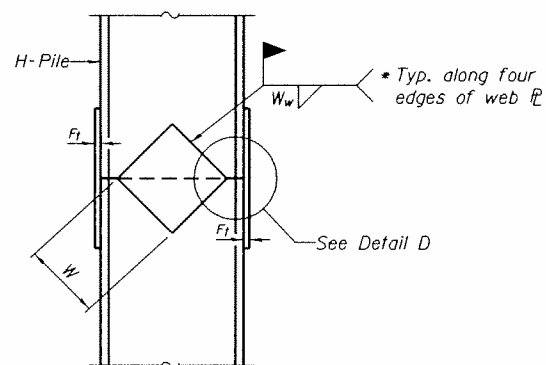
**ELEVATION**

**PILE ENCASEMENT**

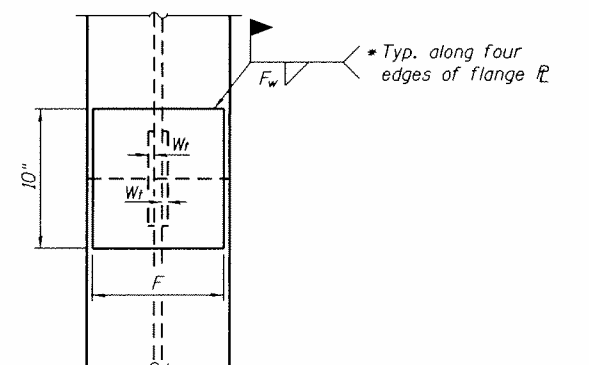


**SECTION A-A**

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

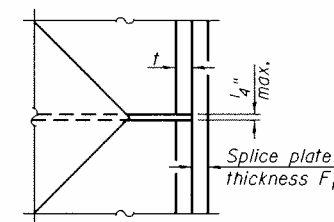


**ELEVATION**



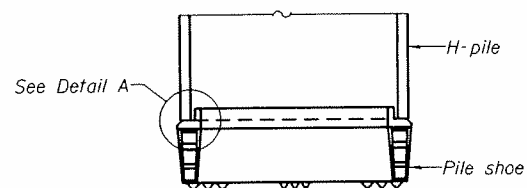
**END VIEW**

Designation	F	F <sub>1</sub>	F <sub>w</sub>	W	W <sub>1</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5 5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5 5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5 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"

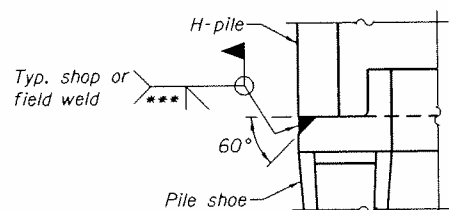


**DETAIL D**

**WELDED PLATE FIELD SPLICE**

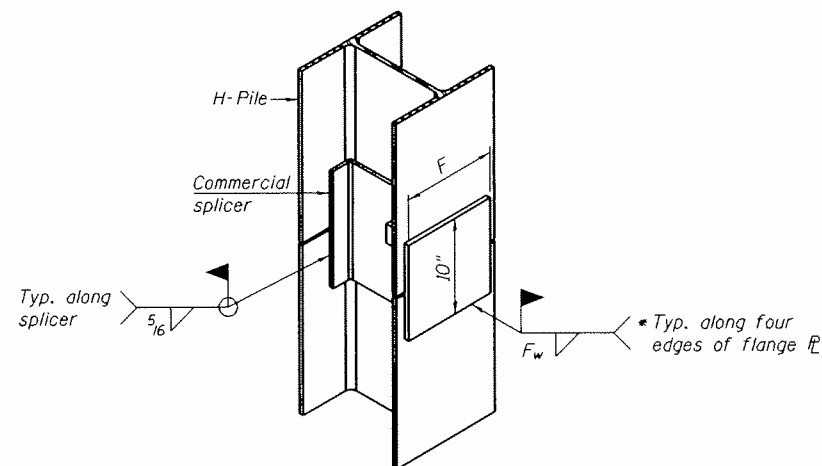


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**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.\*.

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

FILE NAME : S:\JOB\15088-6399\63946\074\Micro\CGD00\_Sheet13.037.0854-64482-022-PILE.dgn

F-HP

1-27-12

1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
STRAND ASSOCIATES\* IOPPR NO. 184-001273

USER NAME : briantf  
DESIGNED - RRD  
CHECKED - AJJ  
DRAWN - BJF  
PLOT SCALE :  
PLOT DATE : 3/18/2015

REVISOR -  
REVISION -  
REVISION -  
REVISION -  
REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 037-0054

SHEET NO. 22 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	51
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 2

ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell  
SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE. SEC. , TWP. 14N. RNG. 5E  
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)	DEPTHS (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)
037-0054	272+00		SOFT brown SILTY LOAM	0.5 P	20		STIFF black SILTY LOAM	4 1.3	29
		749.20							
		747.70	MEDIUM gray SILTY LOAM	1 0.8 P	17		LOOSE black dirty fine SAND	0 2 3	
		745.20	MEDIUM gray SILTY CLAY LOAM	1 0.8 P	21		MEDIUM gray SILTY LOAM	0 2 3	1.1 27
		742.70	STIFF brown SILTY CLAY LOAM	3 5 7	2.1 B	20	VERY LOOSE gray dirty medium SAND	0 0 1	
		740.20	VERY STIFF tanish-brown SILTY LOAM	5 7 10	3.5 B	17	LOOSE gray dirty medium SAND	0 2 6	
		737.70	VERY STIFF tan SILTY LOAM	6 6 10	3.7 B	18	SOFT gray SILTY LOAM	1 1 4	0.5 32
		735.20	VERY STIFF gray SILTY CLAY LOAM	6 7 12	3.3 B	21	MEDIUM gray weathered SHALE	0 6 10	
		732.70	STIFF black SILTY LOAM with ORGANICS	4 5 7	1.0 B	28	VERY DENSE gray weathered SHALE	11 23 38	

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 2 of 2

ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell  
SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE. SEC. , TWP. 14N. RNG. 5E  
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)	DEPTHS (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)
037-0054	272+00		VERY DENSE gray weathered SHALE	0.3 P	16				
		710.20							
		707.70	VERY DENSE gray weathered SHALE	6 100/5'					
		705.20	VERY DENSE gray weathered SHALE	3 100/5'					
			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)



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 1

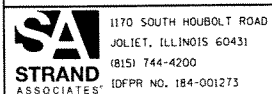
ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell  
SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE. SEC. , TWP. 14N. RNG. 5E  
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)	DEPTHS (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)
037-0054	272+00		SOFT brown SILTY LOAM	0.3 P	16		DENSE gray very weathered SHALE	6 14 22	
		749.93							
		748.43	SOFT tan SANDY LOAM	3 6 3	0.4 P	16	VERY DENSE gray weathered SHALE	28 64 100/8'	
		745.93	STIFF gray SILTY LOAM	2 2 5	1.4 P	20	VERY DENSE gray weathered SHALE	24 47 100/11'	
		743.43	VERY STIFF tan SILTY CLAY LOAM	2 3 5	2.1 B	24	VERY DENSE gray weathered SHALE	50 100/3'	
		740.93	STIFF tan SILTY LOAM	4 4 5	2.0 B	20	Borehole continued with rock coring.		
		738.43	VERY STIFF tan SILTY LOAM	6 8 10	3.7 B	19			
		735.93	STIFF tan SILTY LOAM	2 4 5	1.7 B	20			
		732.93	MEDIUM gray SILTY CLAY LOAM with ORGANICS	3 5 6	0.6 B	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)

Soil Boring Log Station Shift:  
Boring Log Station + 41,653.47' = Plan Set Station

FILE NAME : S:\JOLI\6398--6399\6346\974\Micro\CAD\Sheets\0370054-64H02-023-SBL.dgn



1170 SOUTH HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDPR No. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED -
PLOT SCALE =	CHECKED - AJS	REVISED -
PLOT DATE = 3/18/2015	DRAWN - BJF	REVISED -
	CHECKED - RRD	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (1 OF 2)  
STRUCTURE NO. 037-0054

SHEET NO. 23 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 52
			CONTRACT NO. 64H02	
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

### ROCK CORE LOG

Page 1 of 1

Date 2/15/12

ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell

SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE, SEC. TWP. 14N, RNG. 5E

COUNTY Henry CORING METHOD \_\_\_\_\_

STRUCT. NO. 037-0054 CORING BARREL TYPE & SIZE \_\_\_\_\_  
Station 272+00  
BORING NO. B-2 Core Diameter 2 in  
Station 270+83 Top of Rock Elev. 732.93 ft  
Begin Core Elev. 723.43 ft  
Offset 8.00ft Rt CL  
Ground Surface Elev. 752.43 ft

DEPTH (ft)	DEPTH (#)	RECOVERY (%)	QUALITY (%)	CORE (min/ft)	STRENGTH (tsf)
723.43	1	92	80	3.8	355
Shale: light to medium gray, dense, soapy with moderate fissility. t.s.f.: 721.5 to 720.8					
718.43	2	90	43	5.8	376
Shale: as above, although more fissile. t.s.f.: 715.9 to 714.8					
713.43	End of Boring				

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

### SOIL BORING LOG

Page 1 of 1

Date 2/14/12

ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell

SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE, SEC. TWP. 14N, RNG. 5E

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

STRUCT. NO. 037-0054 Surface Water Elev. 725.5 ft  
Station 272+00 Stream Bed Elev. 724.5 ft  
BORING NO. B-3 Groundwater Elev.: \_\_\_\_\_  
Station 272+25 First Encounter 721.6 ft  
Offset 55.00ft Rt CL Upon Completion \_\_\_\_\_  
Ground Surface Elev. 734.1 ft After \_\_\_\_\_

DEPTH (ft)	DEPTH (#)	RECOVERY (%)	QUALITY (%)	CORE (min/ft)	STRENGTH (tsf)
731.60	2		0.2	29	
VERY SOFT brown SILTY CLAY LOAM					
730.10	3		1.3	27	
STIFF brown SILTY CLAY LOAM					
727.60	4		1.7	27	
STIFF black SILTY CLAY LOAM					
725.10	5		0.3	23	
SOFT black SILTY CLAY LOAM					
722.60	6		0.6	22	
SOFT gray SILTY LOAM					
719.60	7		0.5	25	
SOFT gray SILTY LOAM					
717.60	8				
MEDIUM gray weathered SHALE					
715.10	9				
DENSE gray weathered SHALE					
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

### ROCK CORE LOG

Page 1 of 1

Date 2/14/12

ROUTE FAP 37 (US 34) DESCRIPTION 037-0054 P92-067-11 Bridge over Indian Creek, 1/4 m. W. of IL 78 (S) LOGGED BY B. Wetzell

SECTION 10B-1 LOCATION Wethersfield Twp. - 28SE, SEC. TWP. 14N, RNG. 5E

COUNTY Henry CORING METHOD \_\_\_\_\_

STRUCT. NO. 037-0054 CORING BARREL TYPE & SIZE \_\_\_\_\_  
Station 272+00  
BORING NO. B-3 Core Diameter 2 in  
Station 272+25 Top of Rock Elev. 719.60 ft  
Begin Core Elev. 715.10 ft  
Offset 55.00ft Rt CL  
Ground Surface Elev. 734.1 ft

DEPTH (ft)	DEPTH (#)	RECOVERY (%)	QUALITY (%)	CORE (min/ft)	STRENGTH (tsf)
715.10	1	66	32	6	267
Shale: light to medium gray, dense, soapy and fissile. t.s.f.: 711.7 to 711.3					
710.10	2	100	68	4.8	139
Shale: as above, although comparatively intact. t.s.f.: 707.6 to 706.5					
705.10	End of Boring				

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)

Soil Boring Log Station Shift:  
Boring Log Station + 41,653.47' = Plan Set Station

FILE NAME = S:\JDL\6380-6399\6346\974\Micros\CADD\_Sheets\0370054-64H02-024-SBL.dgn

	1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR No. 184-001273	USER NAME = <u>brianf</u>	DESIGNED - <u>RRD</u>	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS (2 OF 2) STRUCTURE NO. 037-0054</b>	F.A.P. RTE. <u>37</u>	SECTION <u>10B-1</u>	COUNTY <u>HENRY</u>	TOTAL SHEETS <u>95</u>	SHEET NO. <u>53</u>
	PLOT SCALE = _____	DRAWN - <u>B.J.F.</u>	REVISED - _____	SHEET NO. 24 OF 25 SHEETS			ILLINOIS FED. AID PROJECT			CONTRACT NO. <u>64H02</u>	

B.M. Vertical nail, root 20" oak tree 109' RL  
Sta. 270+39 - Elev. 744.01  
No Existing Structure

037-0054

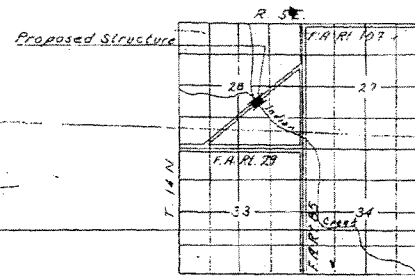
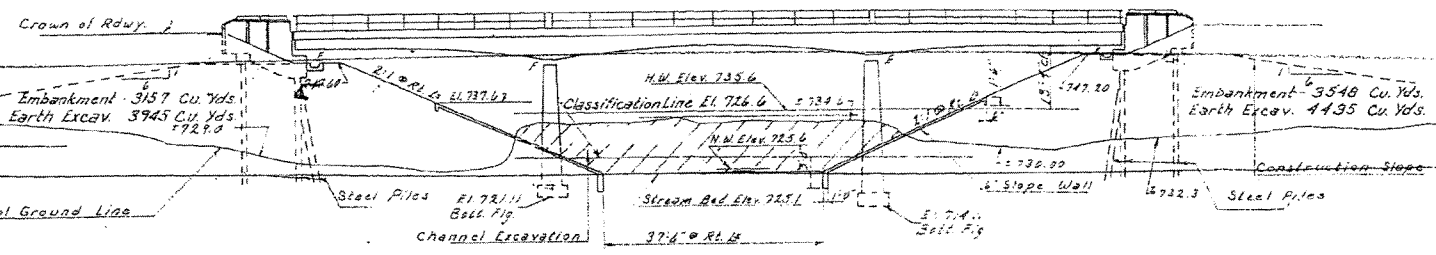
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108-1	108-1	Henry	29	8

SHEET NO. 1-  
9 SHEETS

**GENERAL NOTES**

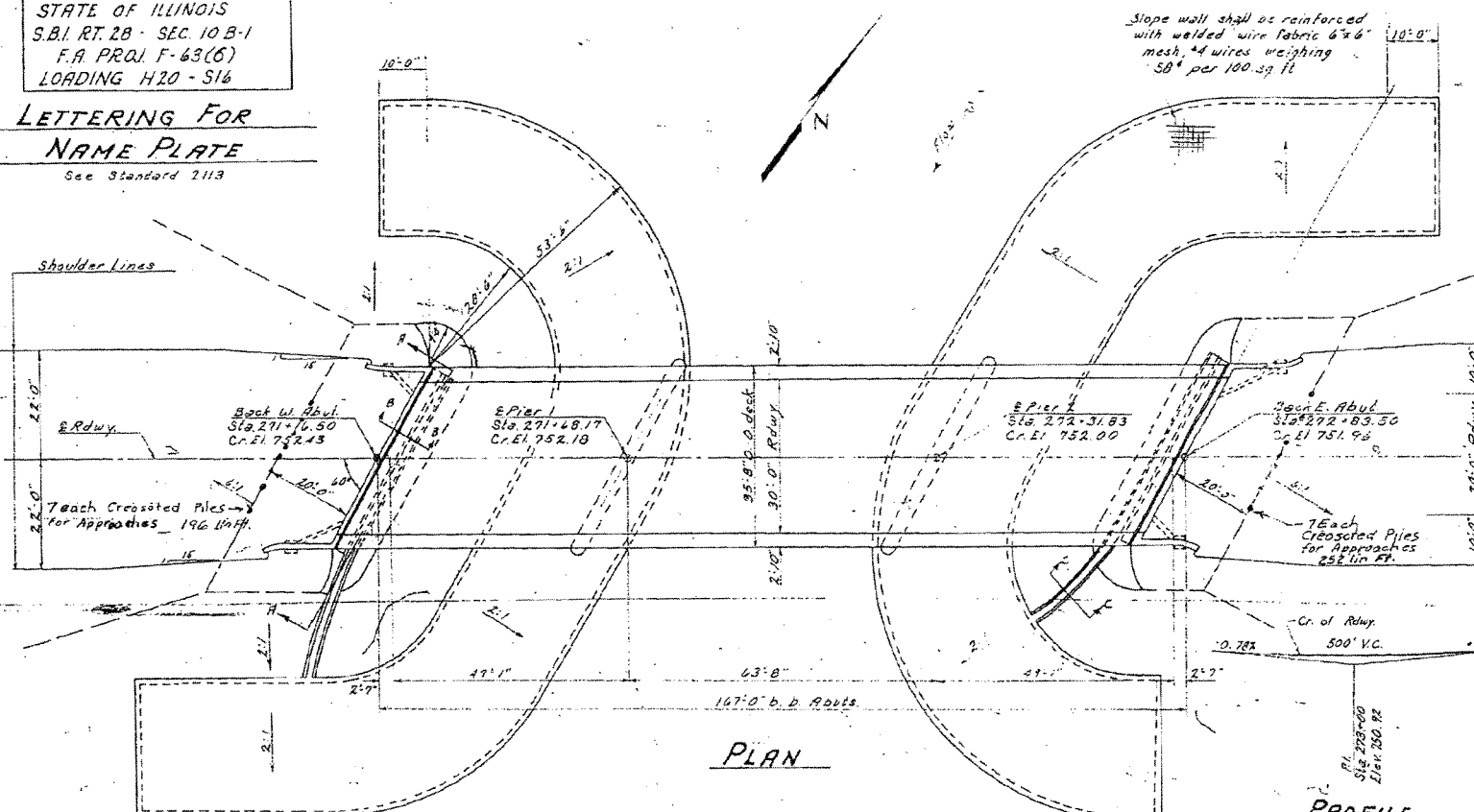
Class X Concrete shall be used throughout except in piers.  
Class A Concrete shall be used in piers.  
The concrete floor slab shall be finished in accordance with Article 51.18(2) of the Standard Specifications.  
The concrete floor slab shall be poured continuously within limits of construction joints shown.  
All bolsters, rockers, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 51.14 of the Standard Specifications and are included for payment as Structural Steel.  
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 57.1 to 57.5 inclusive of the Standard Specifications.  
All paint shall be furnished and applied by the Contractor.  
The Contractor shall drive Test Piles in permanent locations one at each Abutment as shown on the plans and as directed by the Engineer before ordering remainder of piles.  
Layout of Slope wall may be varied to suit ground conditions in the field, as directed by the Engineer.



STATION 272+00  
BUILT 195 BY  
STATE OF ILLINOIS  
S.B.I. RT. 28 - SEC. 10B-1  
F.A. PROJ. F-63(6)  
LOADING H20-S16

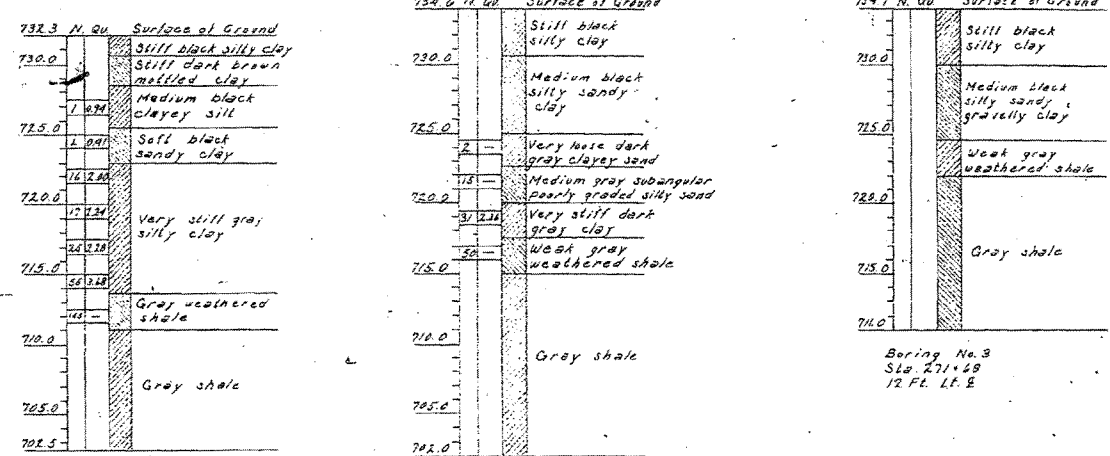
LETTERING FOR  
NAME PLATE  
See Standard 2113

**ELEVATION**



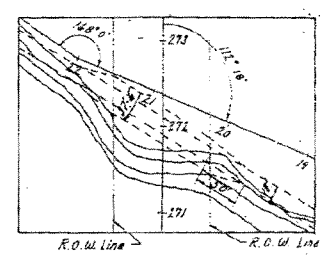
**WATERWAY INFORMATION**

Drainage Area: 1,520 Acres  
Character: rolling, cultivated  
Required Opening (30 yr. Flood): 358 sq. ft.  
Proposed Opening: 555 sq. ft.



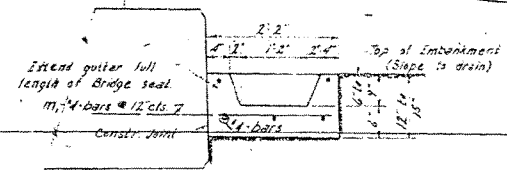
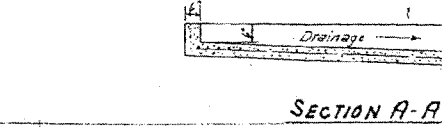
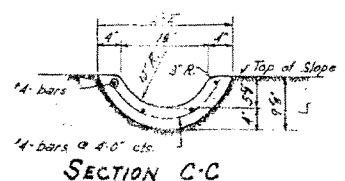
**TOTAL BILL OF MATERIAL**

Item	Super.	Sub.	Total
Class X Concrete	195.4	73.9	369.3
Class A Concrete		318.0	318.0
Reinforcement Bars	83560	16820	100380
Structural Steel	10920		10920
Metal Handrail	361		361
Name Plates	1		1
Steel Piles (B.B.P. 36)		360	360
Test Piles (B.B.P. 36)		2	2
Class A Excav. for Struct.	140		140
Class B Excav. for Struct.	400		400
Rock Excav. for Struct.	22		22
Earth Excavation	8380		8380
Slope Wall	1110		1110
Channel Excav.	2437		2437
Crossed Piles (20" to 36")	642		642



**DESIGN STRESSES**

f<sub>c</sub> - 400 p.s.i. Super  
f<sub>c</sub> - 1880 p.s.i. Sub  
f<sub>s</sub> - 20,000 p.s.i. Reinf. Bars  
n = 10  
Shear Footings 75%  
Max. Footing Pressure - 5700 #/sq.  
LOADING H20-S16-44

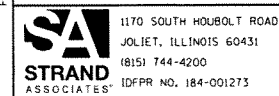


DESIGNED: *Amelton*  
CHECKED: *James*  
DRAWN: *M. O. & P. Lawler*  
APPROVED: *E. R. B...*

APRIL 25 1958

9-29-58 H.P.G. in Total Bill of Material changed steel piles (B.B.P. 36) from 492 to 360 Lin. Ft. and crossed piles (20" to 36") from 448 to 642 Lin. Ft.

For Information only



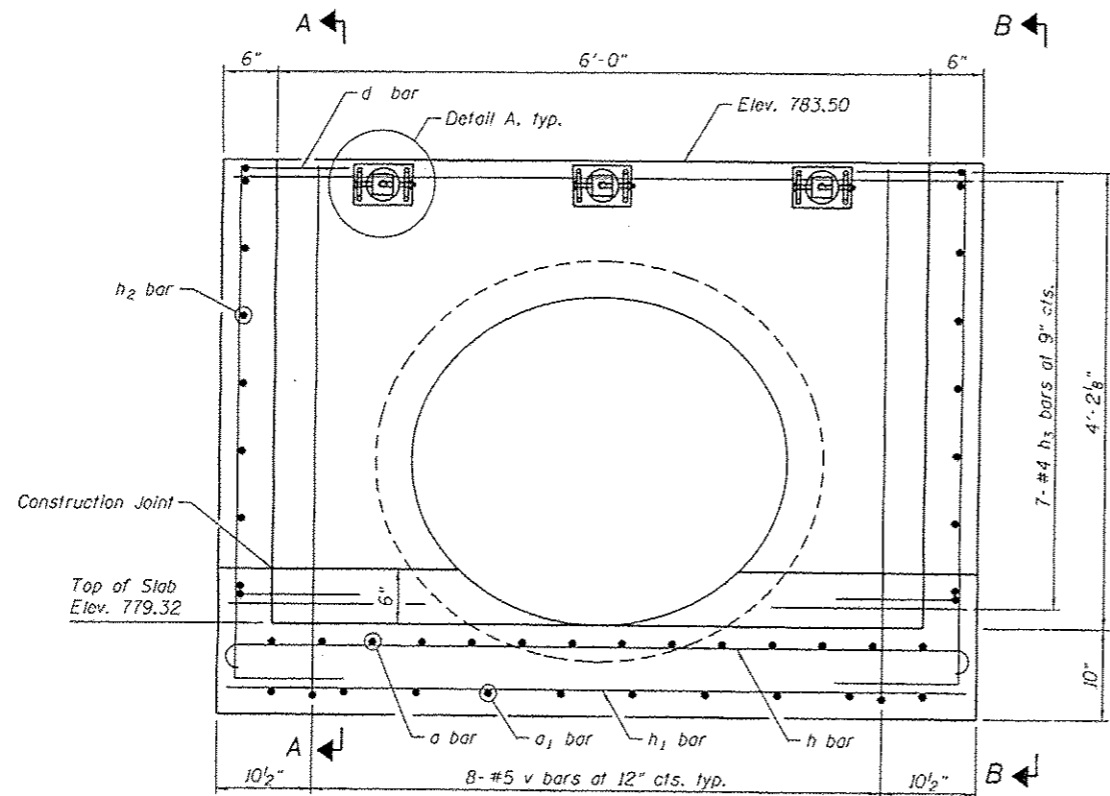
1170 SOUTH HOBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200  
IDFPR NO. 184-001273

USER NAME = brianf	DESIGNED - RRD	REVISED -
DESIGNED - RRD	CHECKED - AJS	REVISED -
CHECKED - AJS	DRAWN - BJF	REVISED -
DRAWN - BJF	CHECKED - RRD	REVISED -
CHECKED - RRD		

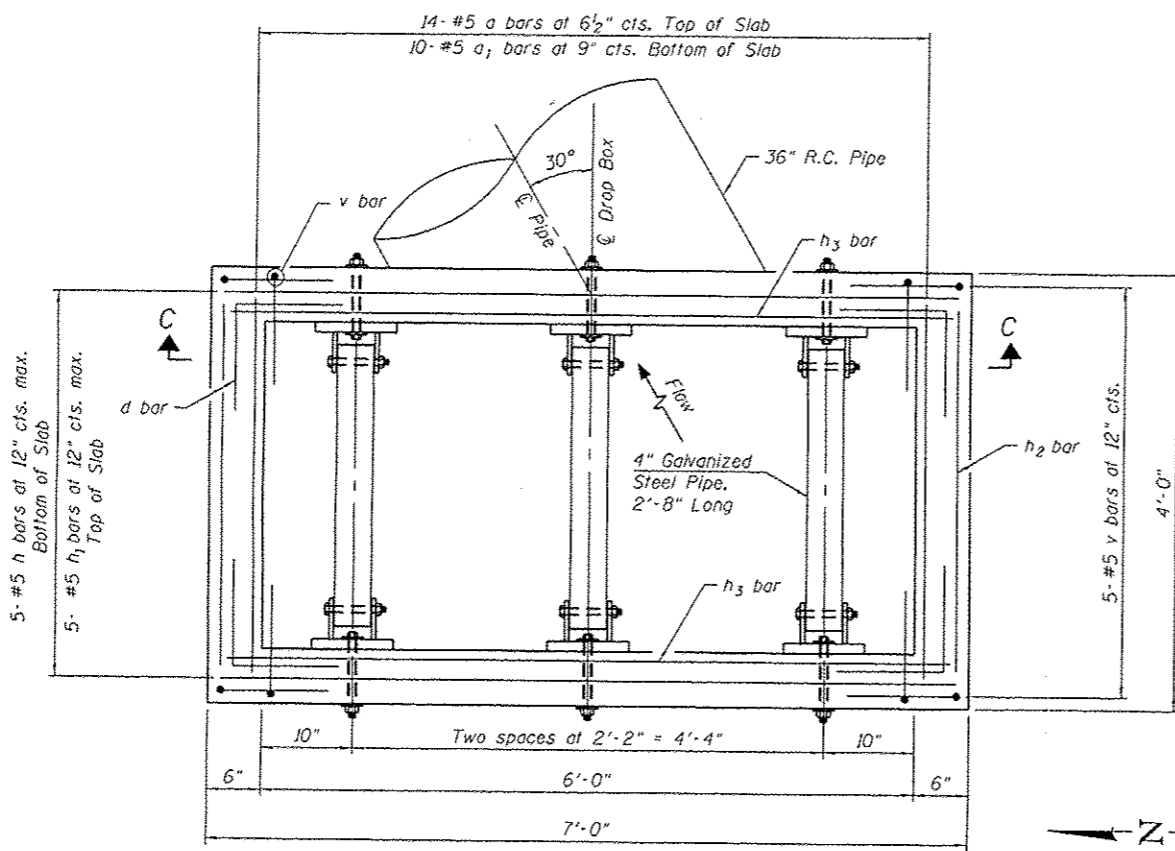
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 037-0054  
SHEET NO. 25 OF 25 SHEETS

F.A.P. RTE. 37	SECTION 108R-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 54
			CONTRACT NO. 64H02	
ILLINOIS FED. AID PROJECT				



LONG. SECTION



PLAN

**GENERAL NOTES:**

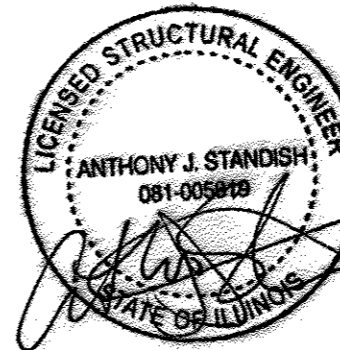
1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. All exposed concrete edges shall be chamfered  $\frac{3}{4}$ " unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Drop Box No. 1 shall include the Concrete Structures, 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 Grate shall include the steel pipe grate system, steel plates, bolts, nuts and washers.
6. Steel pipes shall conform to ASTM A-53 (Type E or S) Grade B, Schedule 40 and shall be galvanized conforming to ASTM A-120.
7. Steel plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.
8. Bolts, nuts and washer shall be in accordance with Article 1006.0B 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 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 application 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. Contractor to confirm that a minimum allowable gross bearing pressure equal to 2000 PSF can be achieved prior to construction of Drop Box structure.
15. Backfilling and future excavations shall be performed equally on all sides of the structure.

**DESIGN STRESSES**  
FIELD UNITS

$f'_c = 4,000$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Drop Box No. 1	Each	1
Traversable Pipe Grate	Foot	8

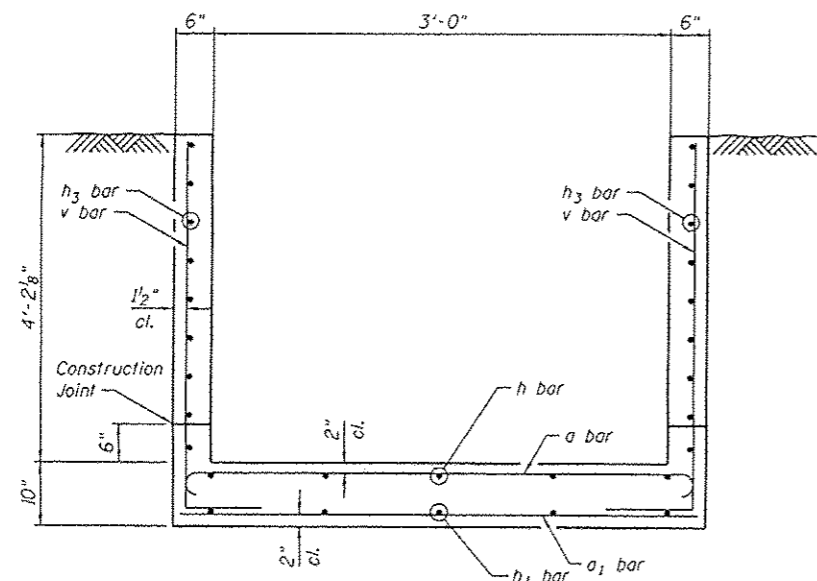


PLAN & ELEVATION  
DROP BOX NO. 1  
E. 2250TH ST. STATION 8+02.00 LT

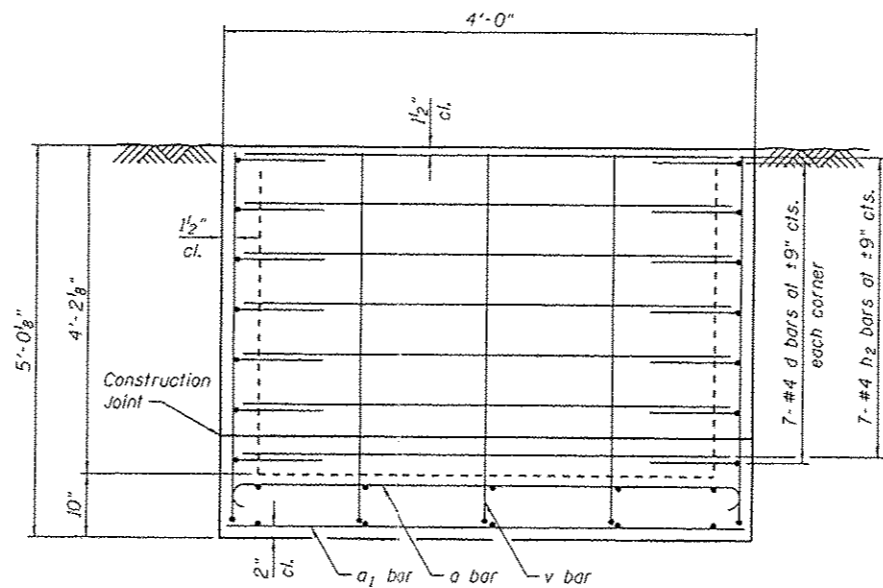
FILE NAME : S:\JUL15\2015-6339\6346\081\MicroStation\Sheet\Sheet1.dwg

1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDPFR NO. 184-001273	USER NAME: brianf	DESIGNED - MJD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION DROP BOX NO. 1 SHEET NO. S1 OF S2 SHEETS	F.A.U. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
	PLOT SCALE:	CHECKED - RRD	REVISED			37	10BR-1	HENRY	95	55
	PLOT DATE: 6/15/2015	DRAWN - JKP	REVISED							
		CHECKED - RRD	REVISED							CONTRACT NO. 64H02

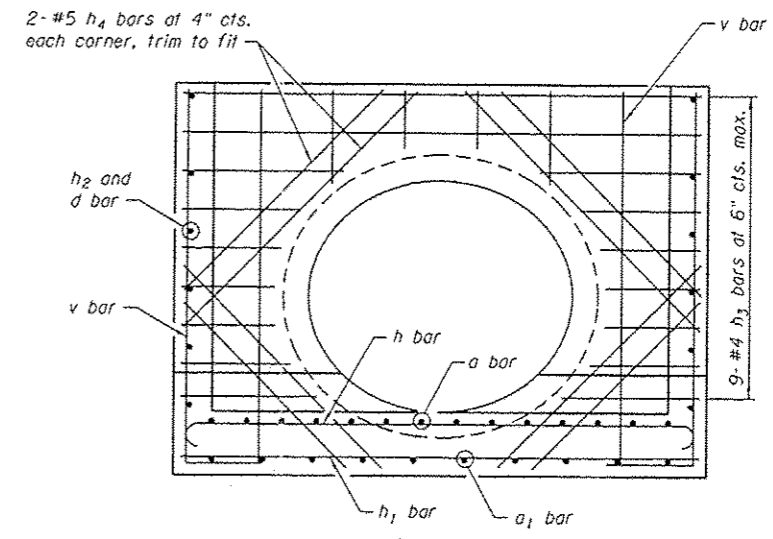
ILLINOIS FED. AID PROJECT



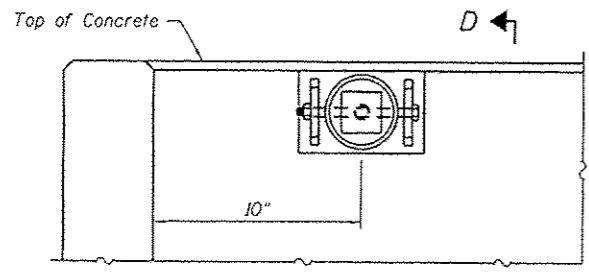
SECTION A-A



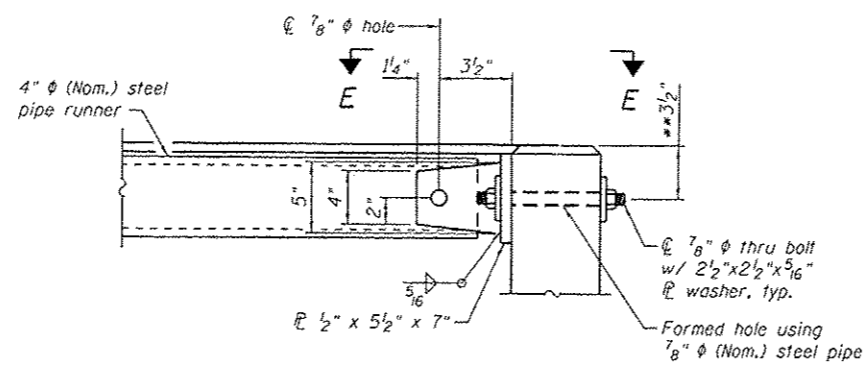
VIEW B-B



VIEW C-C  
Trim v, h3 and h4 bars around pipe opening

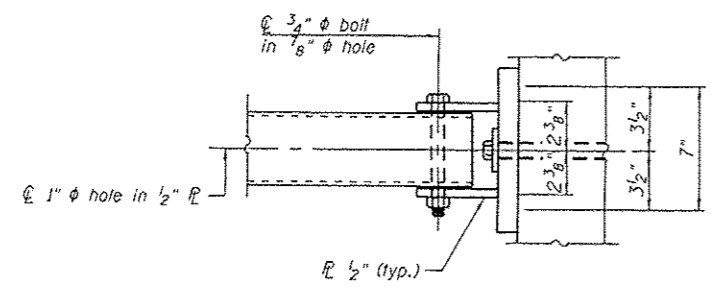


DETAIL A

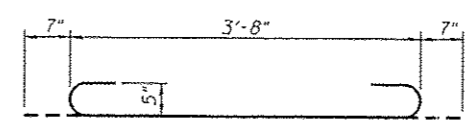


SECTION D-D

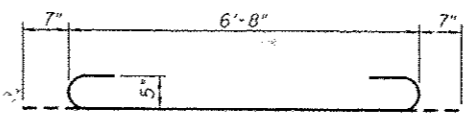
\*\* Measured perpendicular to top of sidewall. In addition, formed hole shall be located a minimum of 5" measured horizontally from any vertical joints necessary for construction of the culvert extension with drop box



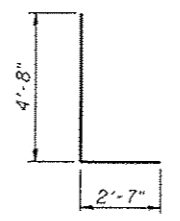
VIEW E-E



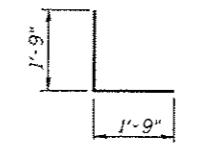
BAR a



BAR h



BAR v



BAR d

**BILL OF MATERIAL**  
(For Information Only)

Bar	No.	Size	Length	Shape
a	14	#5	4'-10"	C
a1	10	#5	3'-8"	—
d	28	#4	3'-6"	└
h	5	#5	7'-10"	C
h1	5	#5	6'-8"	—
h2	14	#4	3'-8"	—
h3	14	#4	6'-8"	—
h4	8	#5	3'-8"	—
v	26	#5	7'-3"	└

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	Cu. Yd.	2.0
Reinforcement Bars	Pound	575
4" Galv. Steel Pipe	3 ⊙	2'-8"
Side Assembly	Each	6

\* Included in Drop Box No. 1  
\*\* Included in Traversable Pipe Grate with all hardware and steel for Assemblies

**PLAN & ELEVATION**  
**DROP BOX NO. 1**  
E. 2250TH ST. STATION 8+02.00 LT

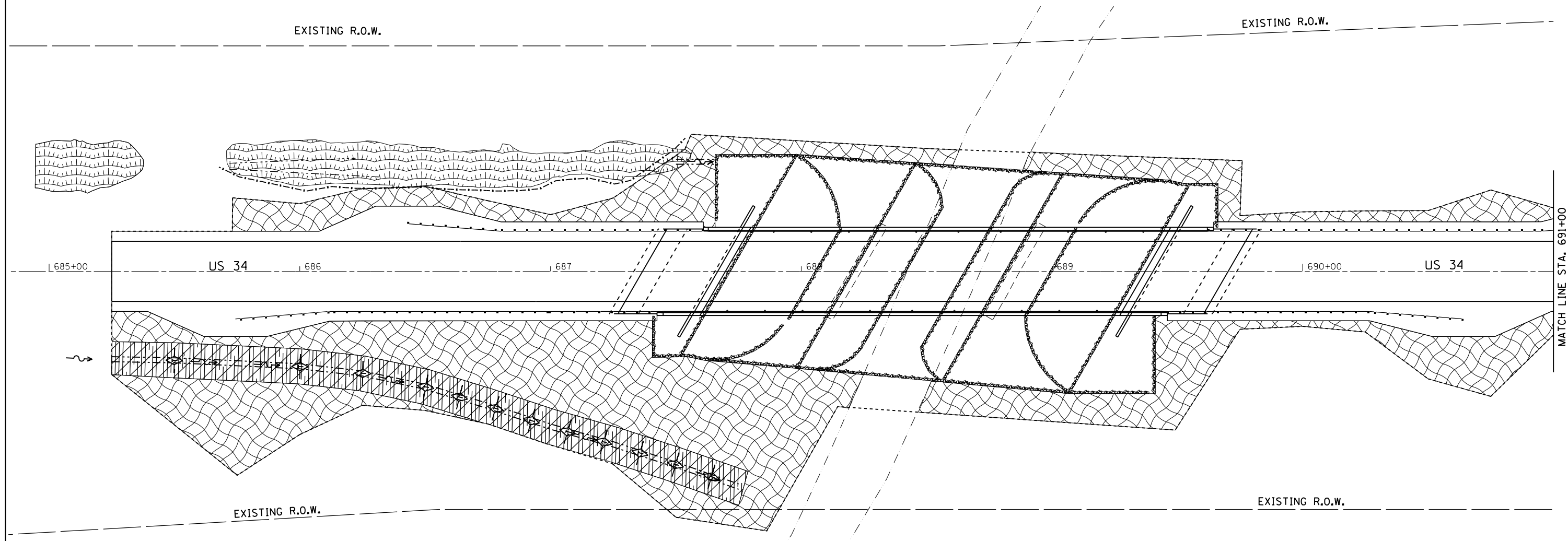
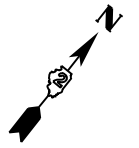
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<p>1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 10FFR NO. 184-001213</p>	USER NAME: brianf	DESIGNED - MJO	REVISED	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>DETAILS</b> <b>DROP BOX NO. 1</b></p> <p align="center">SHEET NO. S2 OF S2 SHEETS</p>	F.A.U. RTE. 37	SECTION 10BR-1	COUNTY HENRY	TOTAL SHEETS 95	SHEET NO. 56		
	PLOT SCALE	DRAWN - JKP	REVISED									
	PLOT DATE 6/15/2015	CHECKED - RRD	REVISED									

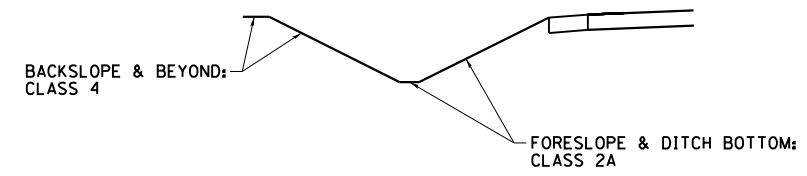
ILLINOIS FED. AID PROJECT



# EROSION CONTROL



SEEDING DETAIL - LEFT & RIGHT DITCH



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

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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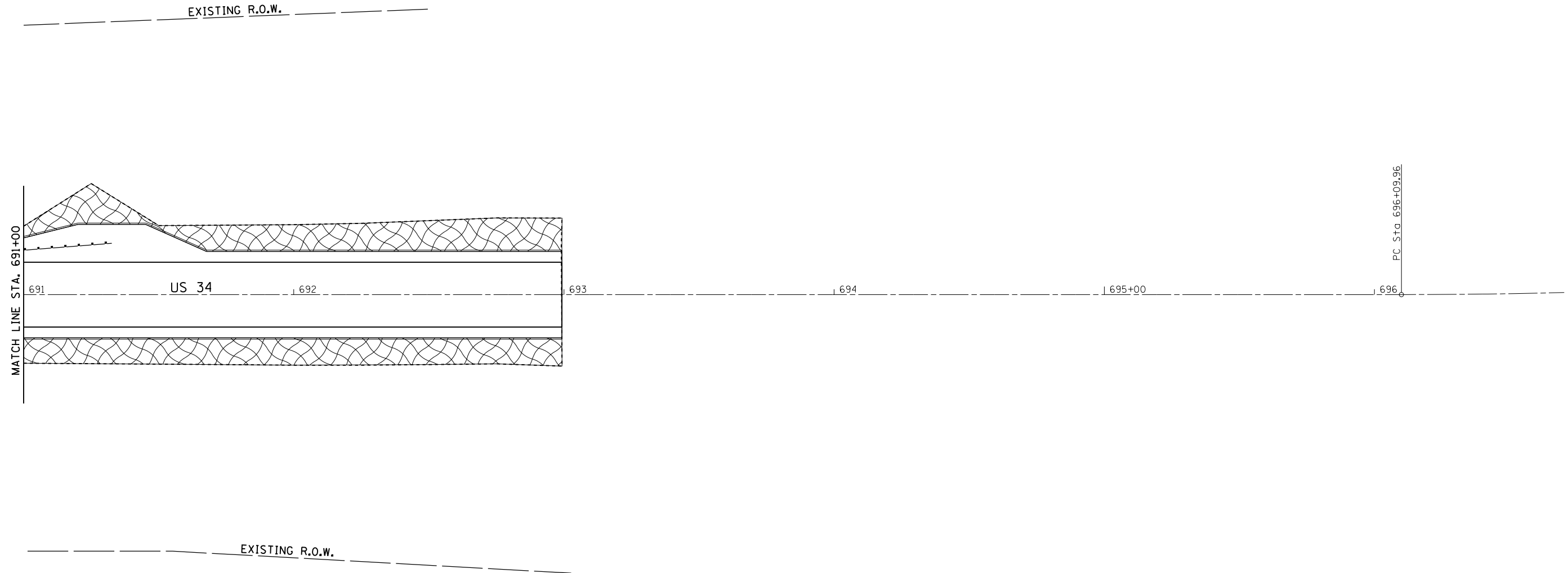
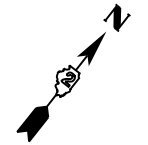
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 34  
EROSION CONTROL DETAILS

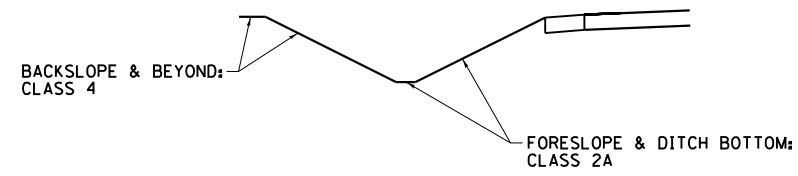
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	57
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL



SEEDING DETAIL - LEFT & RIGHT DITCH



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

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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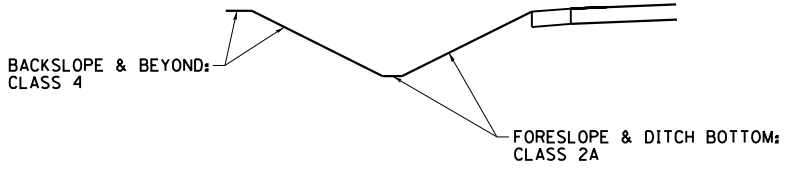
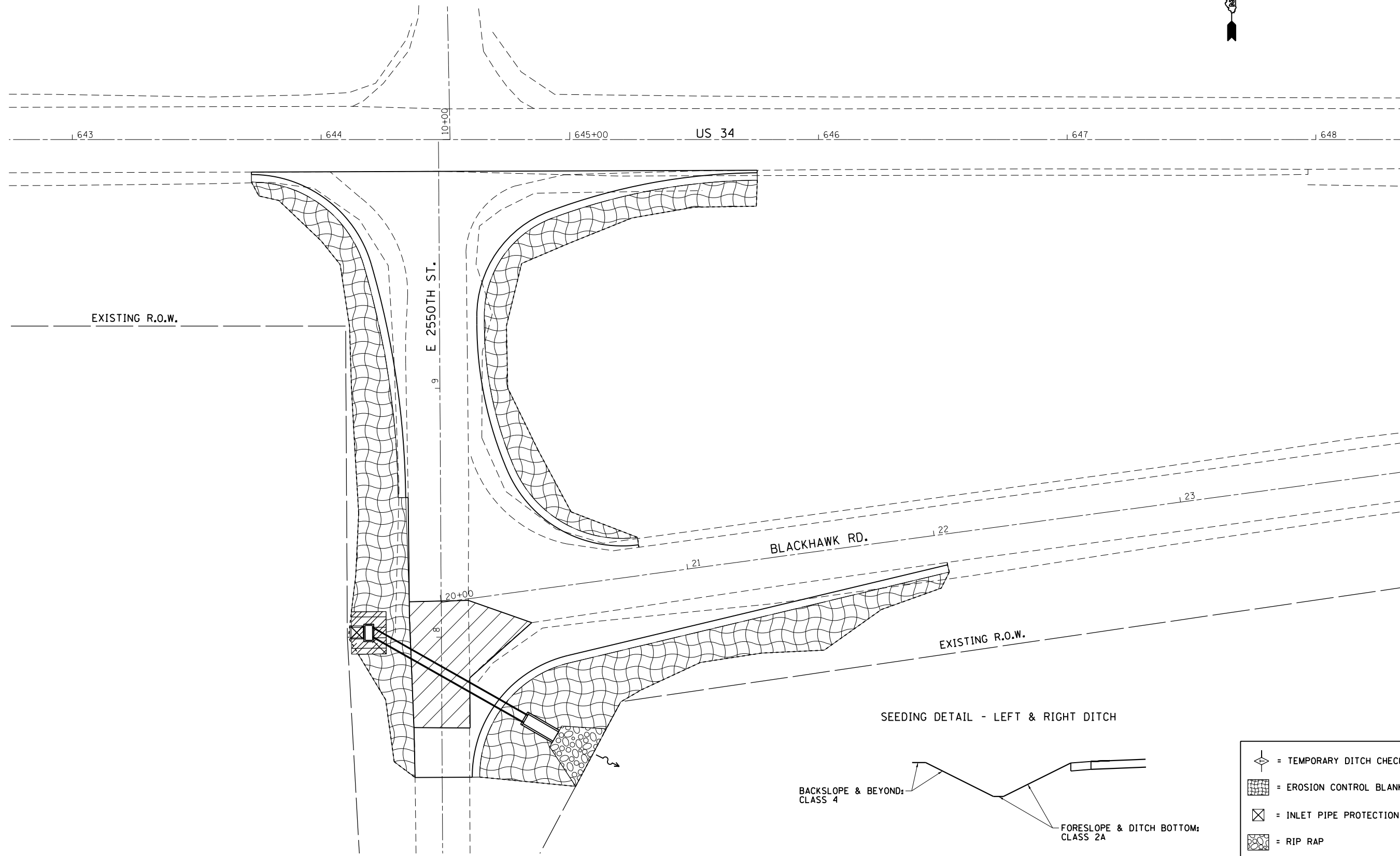
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**US 34**  
**EROSION CONTROL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	58
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL



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

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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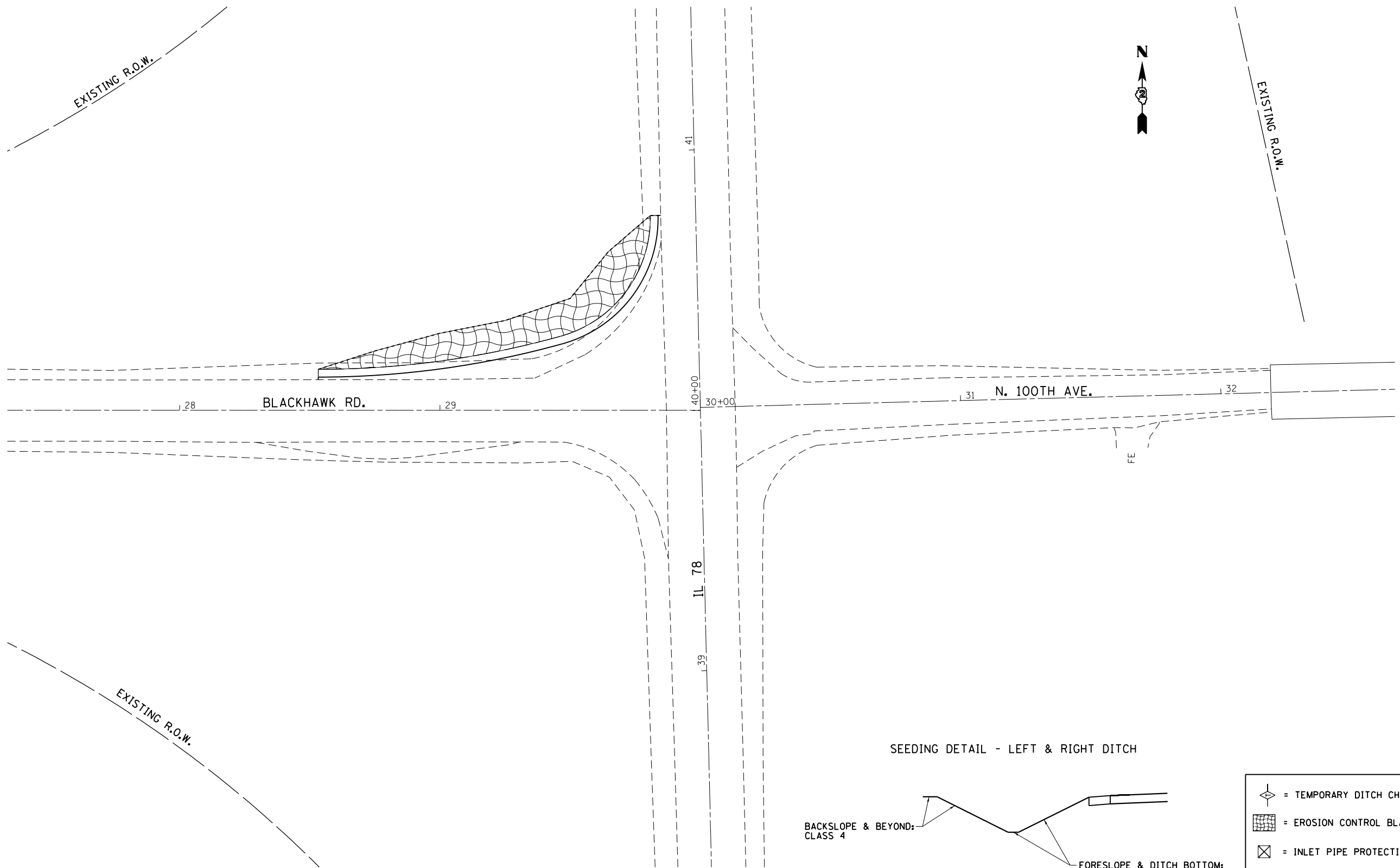
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**E. 2550TH ST. & BLACKHAWK RD.  
EROSION CONTROL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	59
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL



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

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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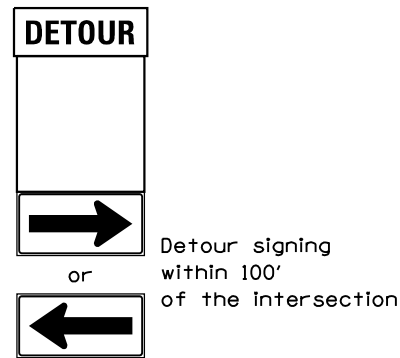
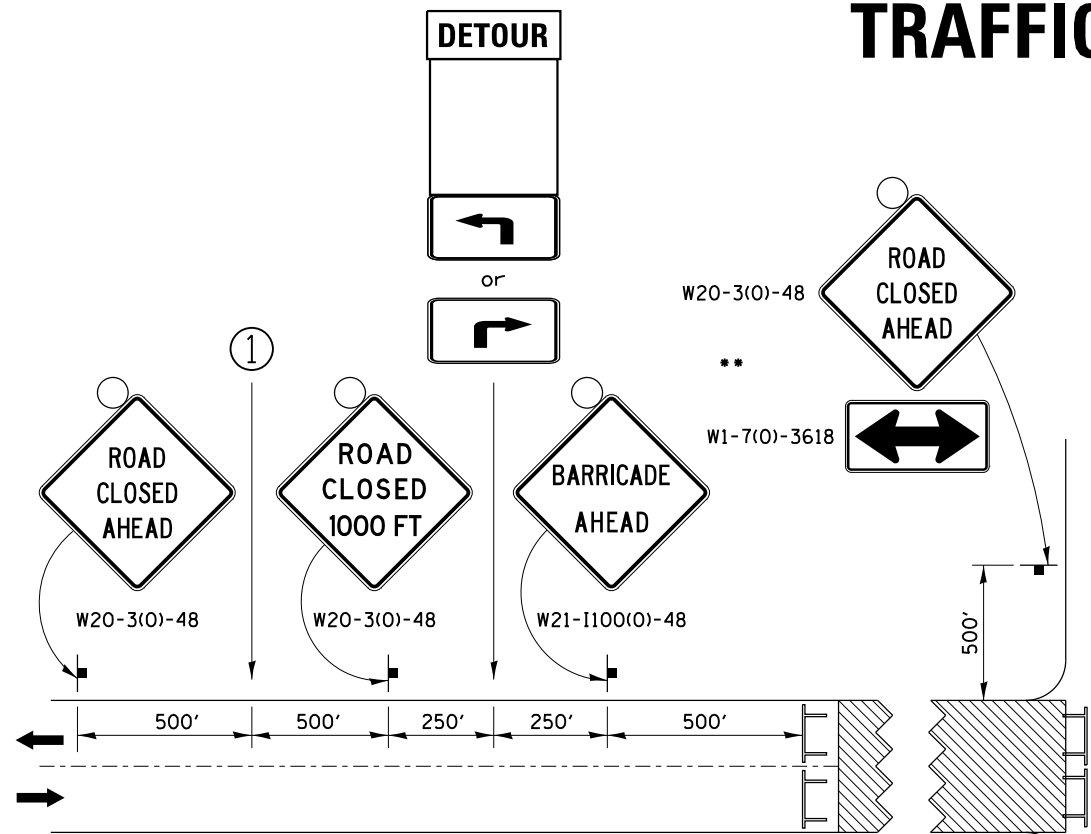
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLACKHAWK RD.  
EROSION CONTROL DETAILS**

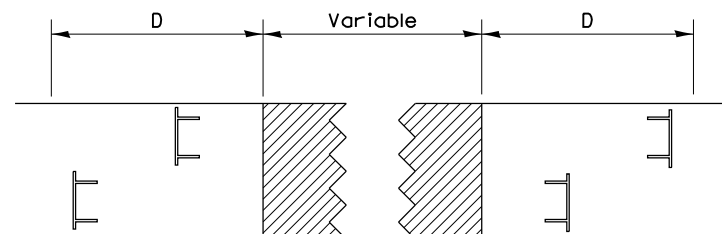
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	60
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				

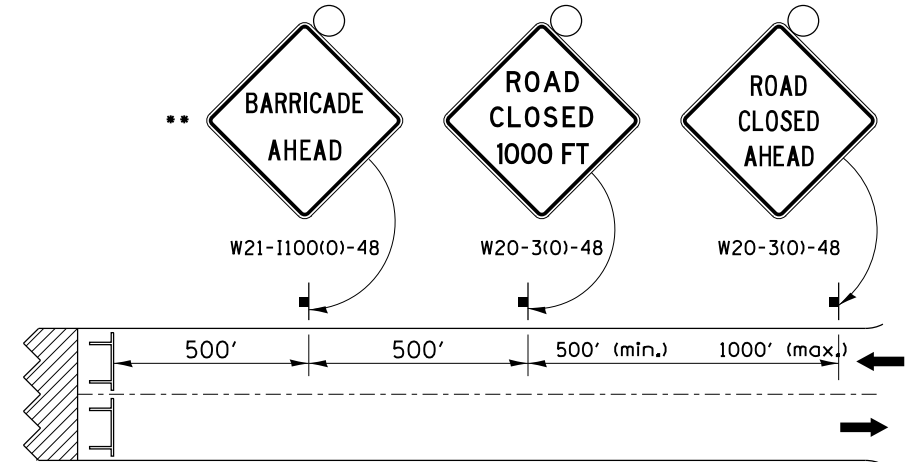
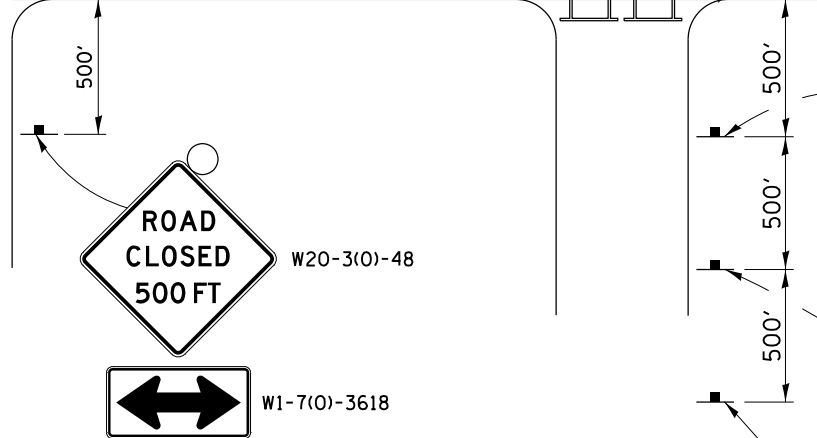
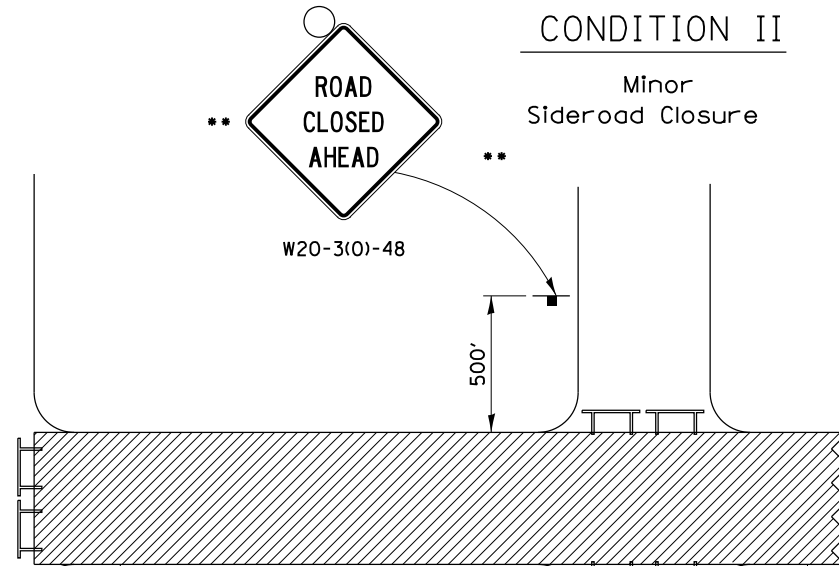
# TRAFFIC CONTROL FOR ROAD CLOSURE



## ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.



- ### SYMBOLS
- Work area
  - Type III Barricade with Flashers
  - Sign with flashing light

### GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

\*\* Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

### TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 8-27-13
pw\11\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\0206711\Drawings\CAD\Drawings\0206711-sht-details		CHECKED -	REVISED - 10-17-11
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		PLOT DATE = Jul-28-2016 01:50:38 PM	REVISED -

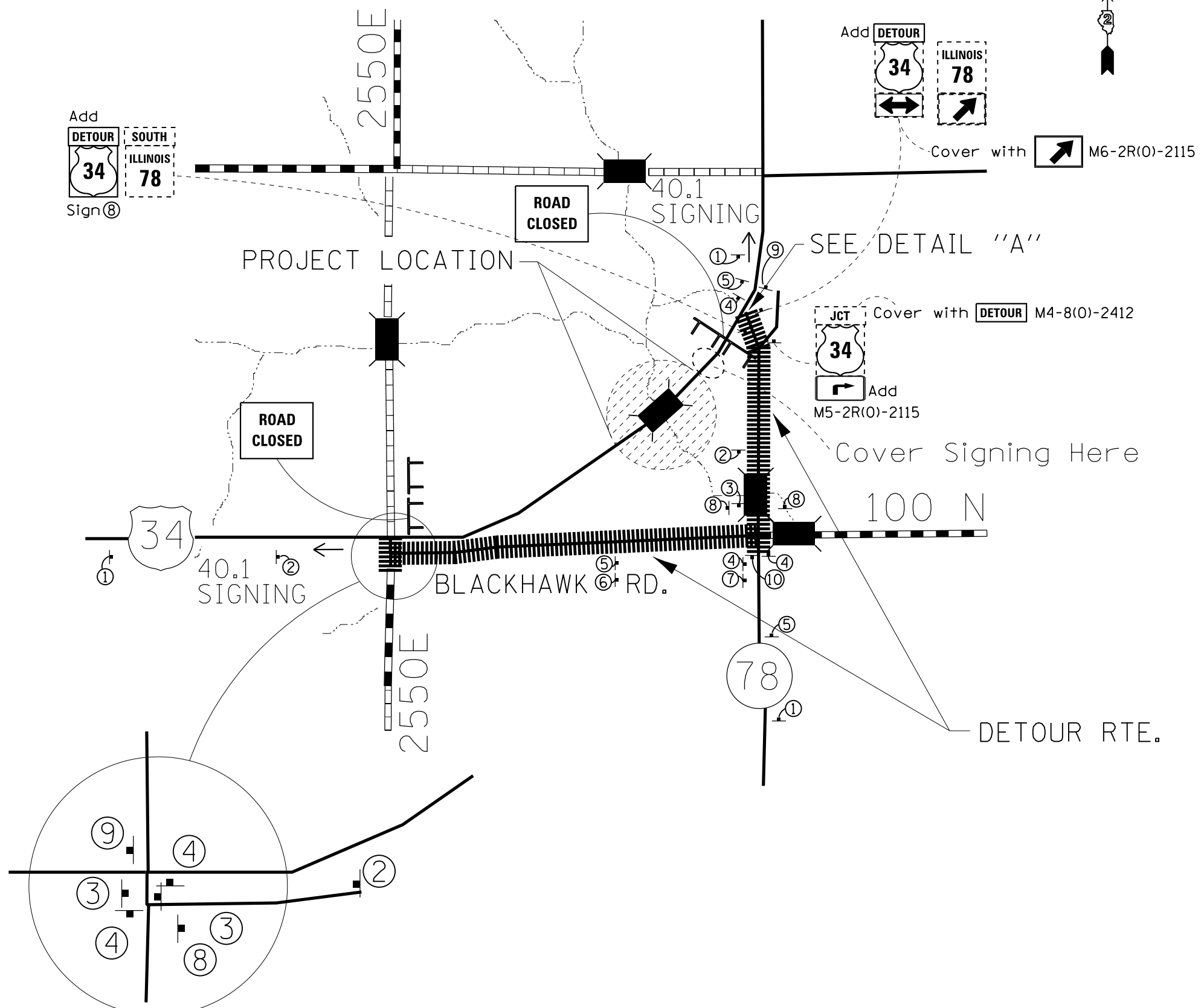
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	61
CONTRACT NO. 64H02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# ROAD CLOSURE & DETOUR PLAN



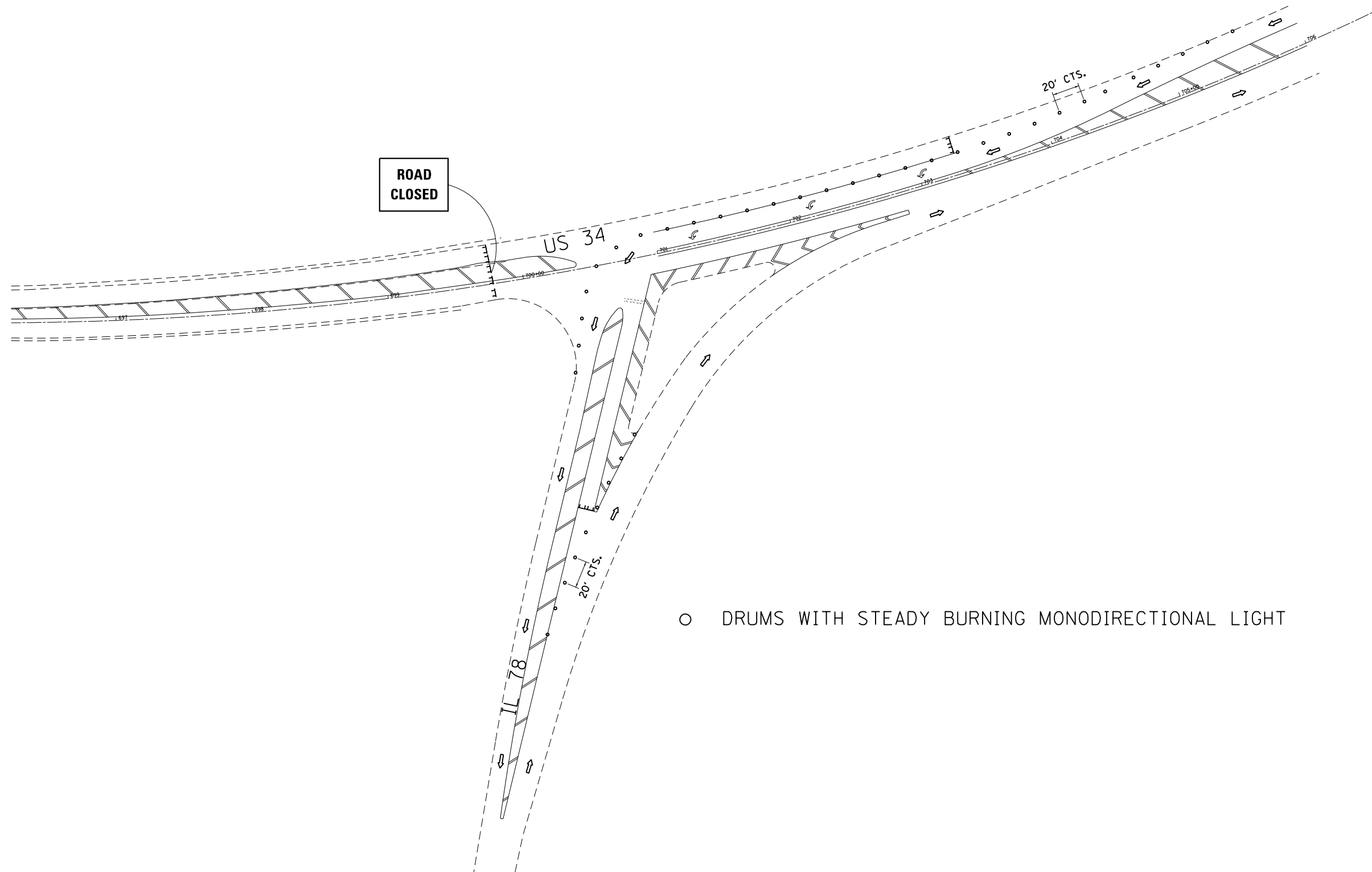
## LEGEND

- ① W20-2(0)-48
  - ② M4-8(0)-2412  
M1-4(24)  
M5-1R(0)-2115
  - ③ M4-8(0)-2412  
M1-4(24)  
M6-1R(0)-2115
  - ④ M4-8(0)-2412  
M1-4(24)  
M6-1L(0)-2115
  - ⑤ M4-8(0)-2412  
M1-4(24)  
M5-1L(0)-2115
  - ⑥ M2-1-2115(WHITE)  
M1-I100(24)
  - ⑦ M1-I100(24)  
M6-4(0)-2115
  - ⑧ M4-8(0)-2412  
M1-4(24)
  - ⑨ M4-8a(0)-2418
  - ⑩ M3-3(WHITE)-24x12  
M1-I100(24)
- DETOUR ROUTE
- TYPE III BARRICADES WITH FLASHERS PLACED AS SHOWN IN STANDARD 701901.

THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL)

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETOUR ROUTE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\020670\DRAWING\GAD\Sheets\0206711-sht-details	DESIGNED -	REVISED -	37			IOBR-1	HENRY	95	62	
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 64H02				
	PLOT DATE = Jul-29-2016 11:17:26 AM	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

# DETOUR ROUTE



○ DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT

## DETAIL "A"

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 2\Projects\0206711-1\Drawings\GADsheets\0206711-sht-details		DRAWN -	REVISED -
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jul-28-2016 01:51:19 PM	DATE -	REVISED -

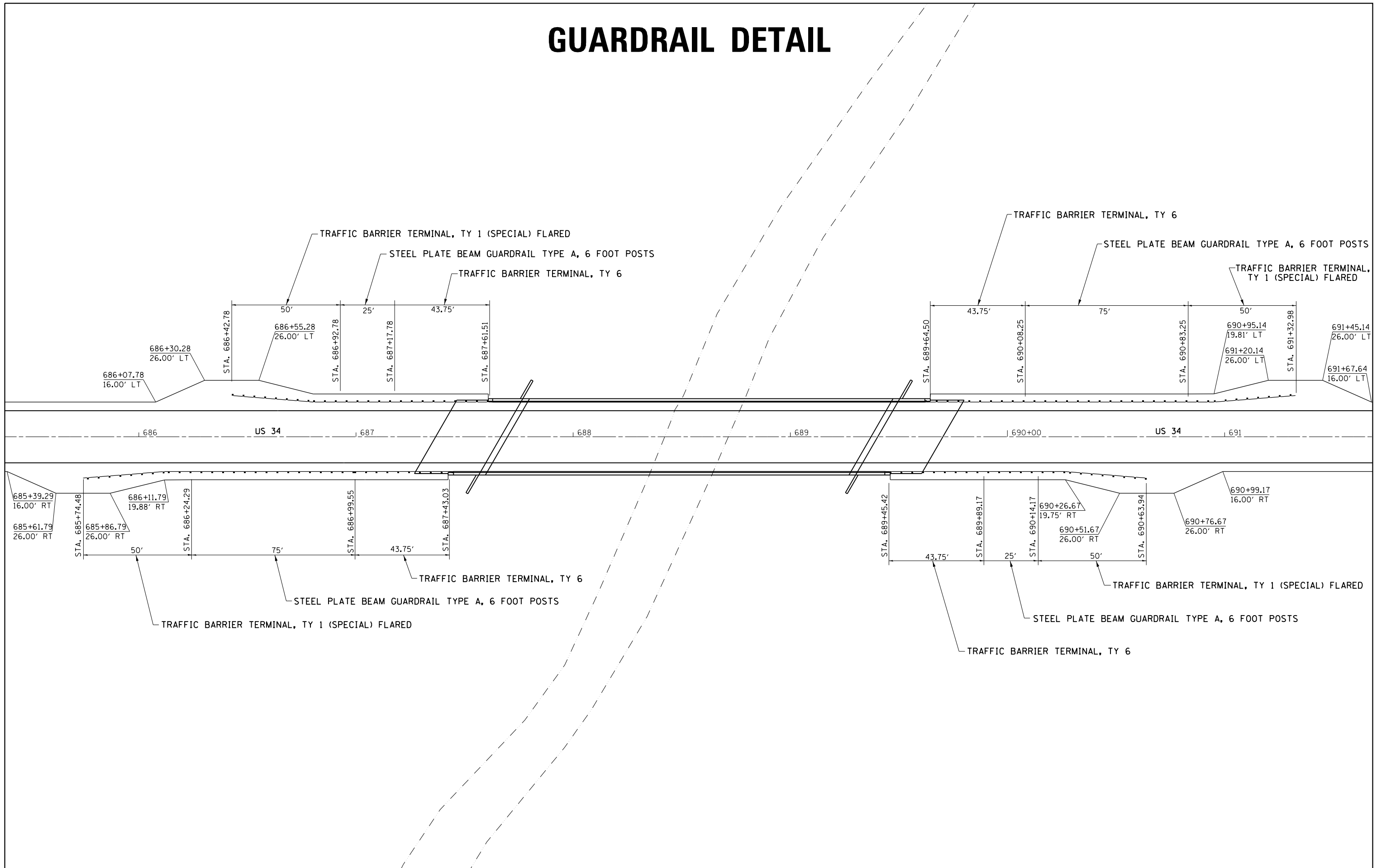
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### DETOUR ROUTE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	63
CONTRACT NO. 64H02				
ILLINOIS FED. AID PROJECT				


# GUARDRAIL DETAIL



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 10-10-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GUARDRAIL DETAIL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN						REVISED -	37	IOBR-1	HENRY	95	64
PLOT SCALE = 40.0000' / in.						REVISED -	CONTRACT NO. 64H02				
PLOT DATE = Jul-28-2016 01:51:45 PM						REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



# BORING LOGS



**Illinois Department of Transportation**  
Division of Highways  
IDOT

## SOIL BORING LOG

Page 1 of 1  
Date 6/2/15

ROUTE FAP 37 DESCRIPTION P92-067-11 Culvert on US 34 Detour, 200' S. of US 34, 1.0 m. W. of IL 78 S LOGGED BY W. Garza

SECTION 10 BR-1 LOCATION Wethersfield Twp. - 32NE, SEC. , TWP. 14N, RNG. 5E

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


STRUCT. NO. 7+87 Latitude \_\_\_\_\_ Northing \_\_\_\_\_  
Station \_\_\_\_\_ Longitude \_\_\_\_\_ Easting \_\_\_\_\_

BORING NO. B-1  
Station 8+08  
Offset 14.00ft Lt CL  
Ground Surface Elev. 99.70 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
									ft	ft	ft	ft	ft	ft
				VERY STIFF light gray SANDY LOAM TILL (continued)	78.70	6	2.6	13.0	95.40					
97.70	1			DENSE light gray SANDY LOAM TILL		11								
96.20	2	0.9	23.0		76.20	20	4.4	13.0						
	4	P				25	S							
93.70	2	0.6	32.0	VERY STIFF light gray SANDY LOAM TILL	73.20	8	2.3	10.0						
	2	B				12	S							
	3					11								
91.20	2	1.1	30.0	STIFF light gray SILTY LOAM	70.70	13								
	3	B				17	1.6	17.0						
	5					19	P							
88.70	2	1.0	30.0	DENSE light gray SHALE	68.70	3								
	2	B				10								
	3					33								
86.20	1	0.8	29.0	VERY DENSE light gray SHALE	66.20	100/7								
	2	B		End of Boring										
	4													
83.20	1	1.5	25.0	STIFF tan/light gray CLAY LOAM										
	2	B												
	5													
81.20	2	3.5	14.0	VERY STIFF olive-green LOAM TILL										
	6	B												
	7													
	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  
IDOT

## SOIL BORING LOG

Page 1 of 1  
Date 6/2/15

ROUTE FAP 37 DESCRIPTION P92-067-11 Culvert on US 34 Detour, 200' S. of US 34, 1.0 m. W. of IL 78 S LOGGED BY W. Garza

SECTION 10 BR-1 LOCATION Wethersfield Twp. - 32NE, SEC. , TWP. 14N, RNG. 5E

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

STRUCT. NO. 7+87 Latitude \_\_\_\_\_ Northing \_\_\_\_\_  
Station \_\_\_\_\_ Longitude \_\_\_\_\_ Easting \_\_\_\_\_

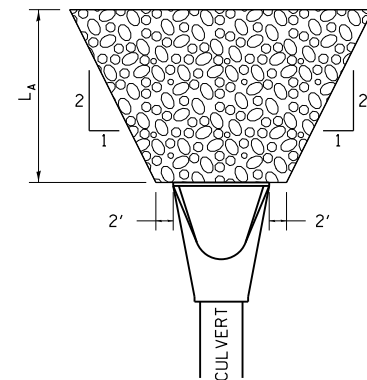
BORING NO. B-2  
Station 7+55  
Offset 44.00ft Rt CL  
Ground Surface Elev. 93.20 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
									ft	ft	ft	ft	ft	ft
				VERY STIFF light gray SANDY LOAM TILL with SANDSTONE fragments (continued)	71.70	12	2.8	12.0						
91.20	2			VERY DENSE light gray SHALE		13								
89.70	2	0.7	36.0			41								
	4			End of Boring		100/9								
87.20	1	0.8	31.0	MEDIUM light brown SILTY CLAY LOAM										
	1	B												
	2													
84.20	1	1.4	25.0	STIFF tan/light gray CLAY LOAM										
	3	B												
	4													
82.20	2	1.9	19.0	STIFF tan CLAY LOAM TILL										
	3	B												
	4													
79.20	1	0.7	13.0	MEDIUM light gray LOAM TILL										
	2	B												
	6													
76.70	5	2.6	16.0	VERY STIFF light gray SILTY LOAM with SAND lens										
	11	P												
	19													
74.70	5	1.9	16.0	STIFF light gray SILTY LOAM TILL										
	7	S												
	10													
	6													

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)

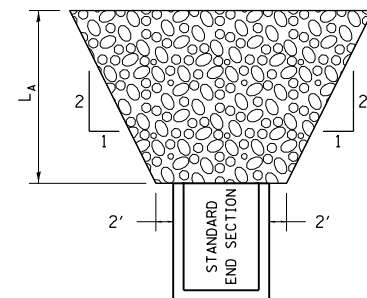
# RIPRAP AT END SECTIONS



FLARED END SECTION

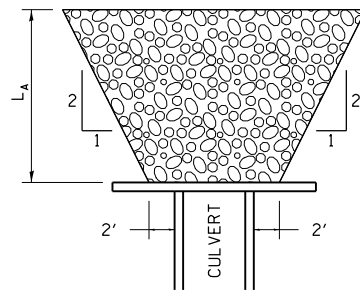
$L_A$  = APRON LENGTH (ft)  
 IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH ( $L_A$ ).

STANDARD END SECTION:  
 542001 (PIPE), 542011 (ELLIPTICAL)  
 DISTRICT STANDARD 10.1 (BOX).

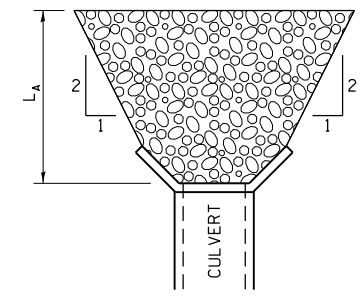


STANDARD END SECTION

REVISED - 7-13-16  
 REVISED - 11-12-14  
 REVISED - 2-10-14



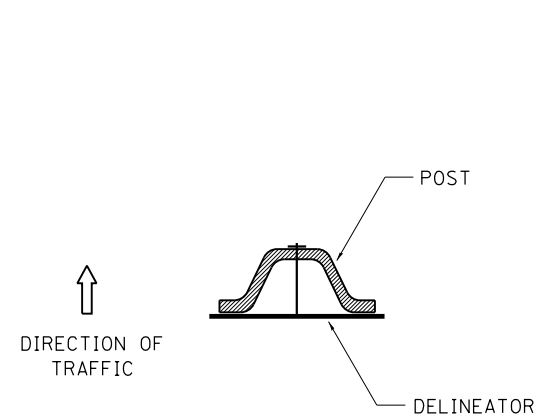
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

## RIPRAP AT END SECTIONS 19.4

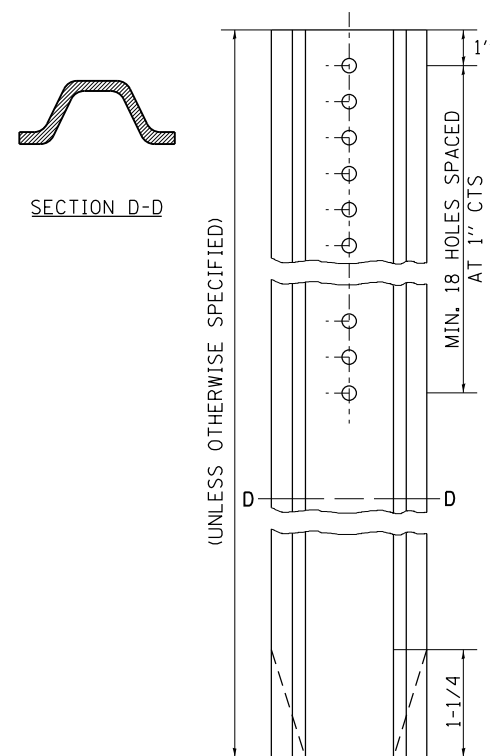
# DELINEATOR AND POST ORIENTATION



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 ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

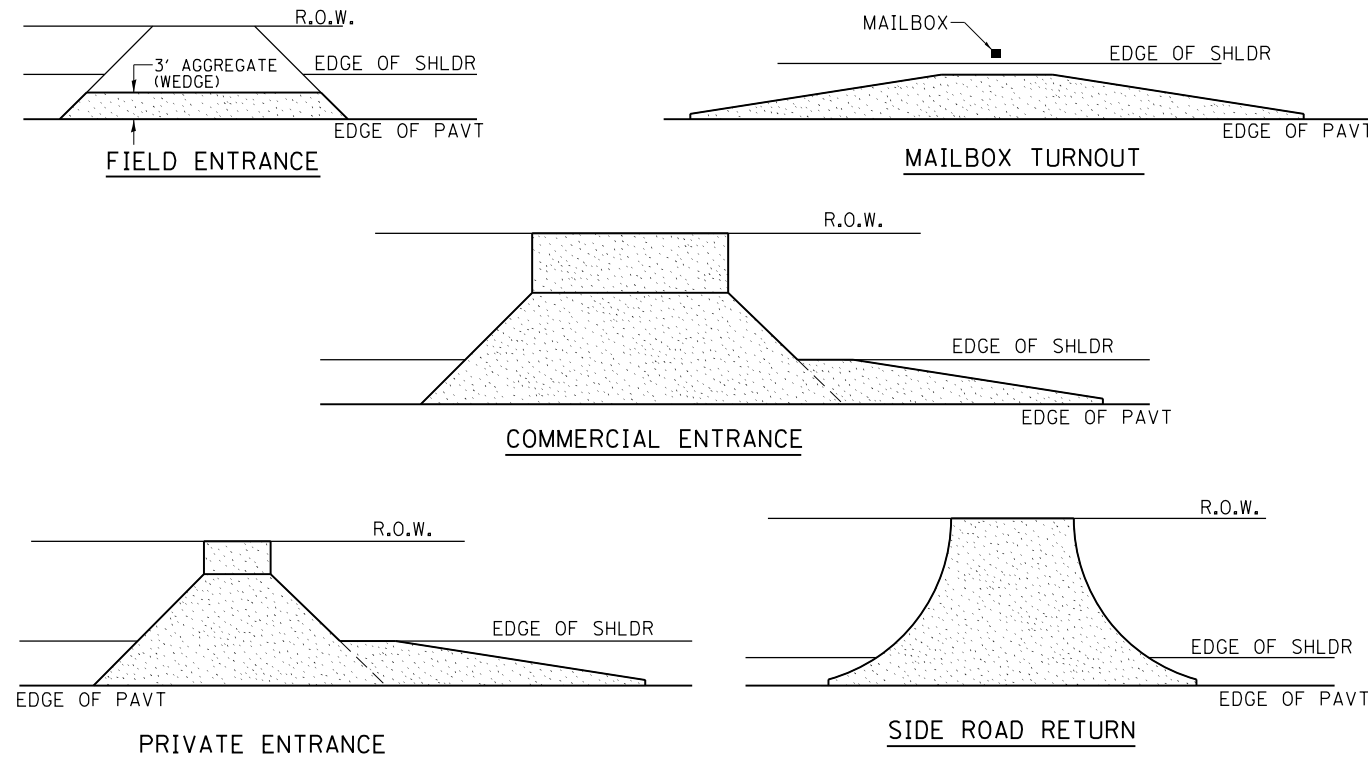


PLOT DATE = Jul-28-2016 04:53:38 PM

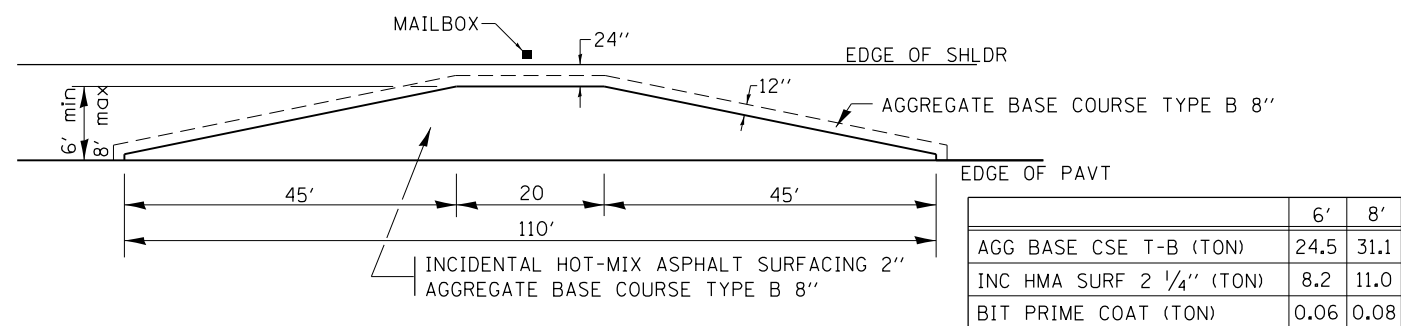
## DELINEATOR AND POST ORIENTATION 37.4

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		37	10BR-1	HENRY	95	66
REVISED -		CONTRACT NO. 64H02				
REVISED -		SCALE: 100.0000' / 1" SHEET NO.	OF	SHEETS	STA.	TO STA.

# HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS

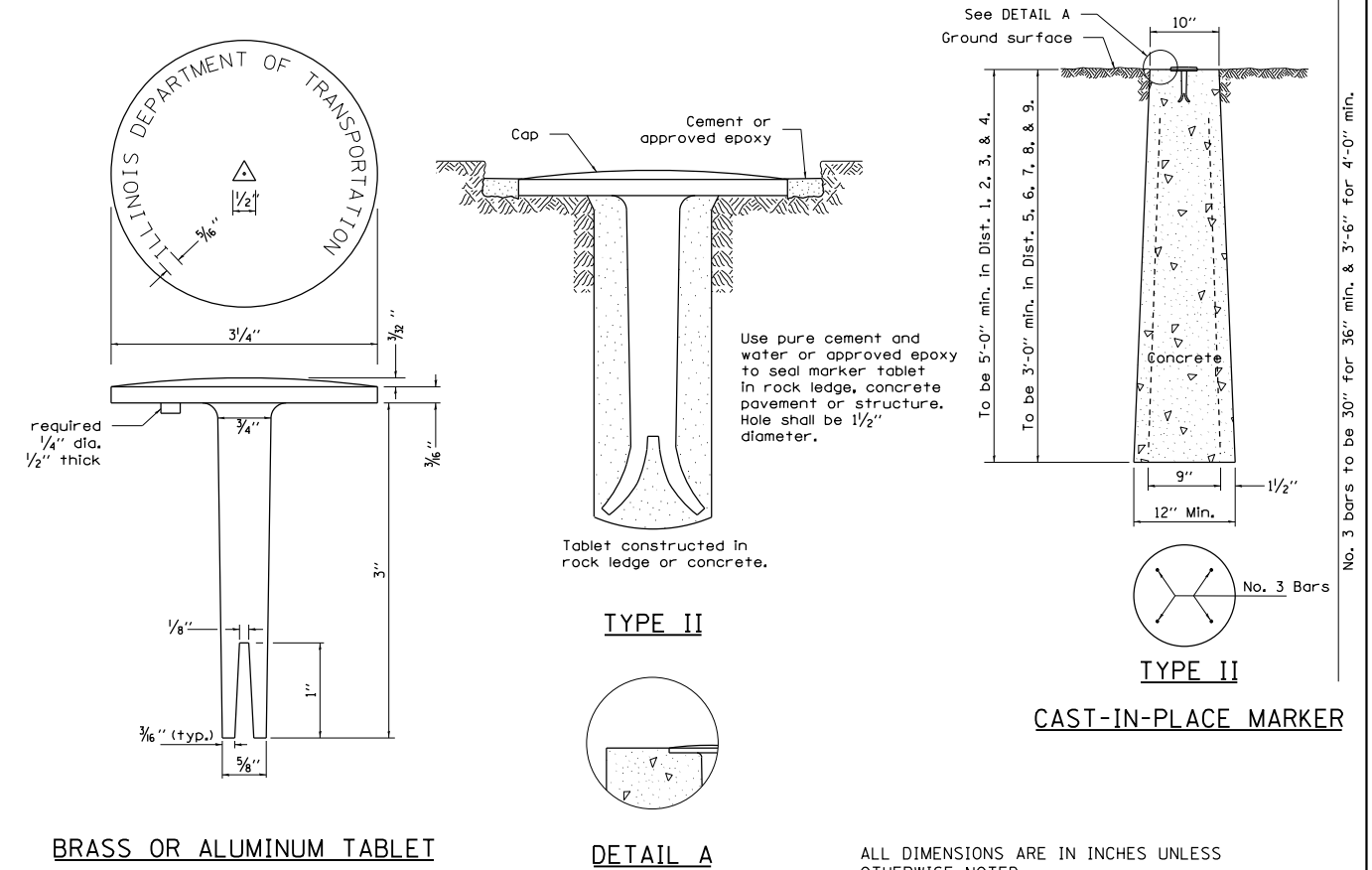


- NOTE:** EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS  
Place 2 1/4" Incidental Hot-Mix Asphalt Surfacing #40800050 on entrance to conform to the existing configuration.
- EXISTING AGG. PE's & CE's  
Place 2 1/4" Incidental Hot-Mix Asphalt Surfacing #40800050 on existing entrance to conform to the present configuration.
- EXISTING AGG. SIDEROADS  
Place 3" Incidental Hot-Mix Asphalt Surfacing #40800050 on sideroad to conform to the present configuration.
- EXISTING AGG. MAILBOX TURNOUTS  
Existing Agg. Mailbox Turnouts shall be constructed as shown below.

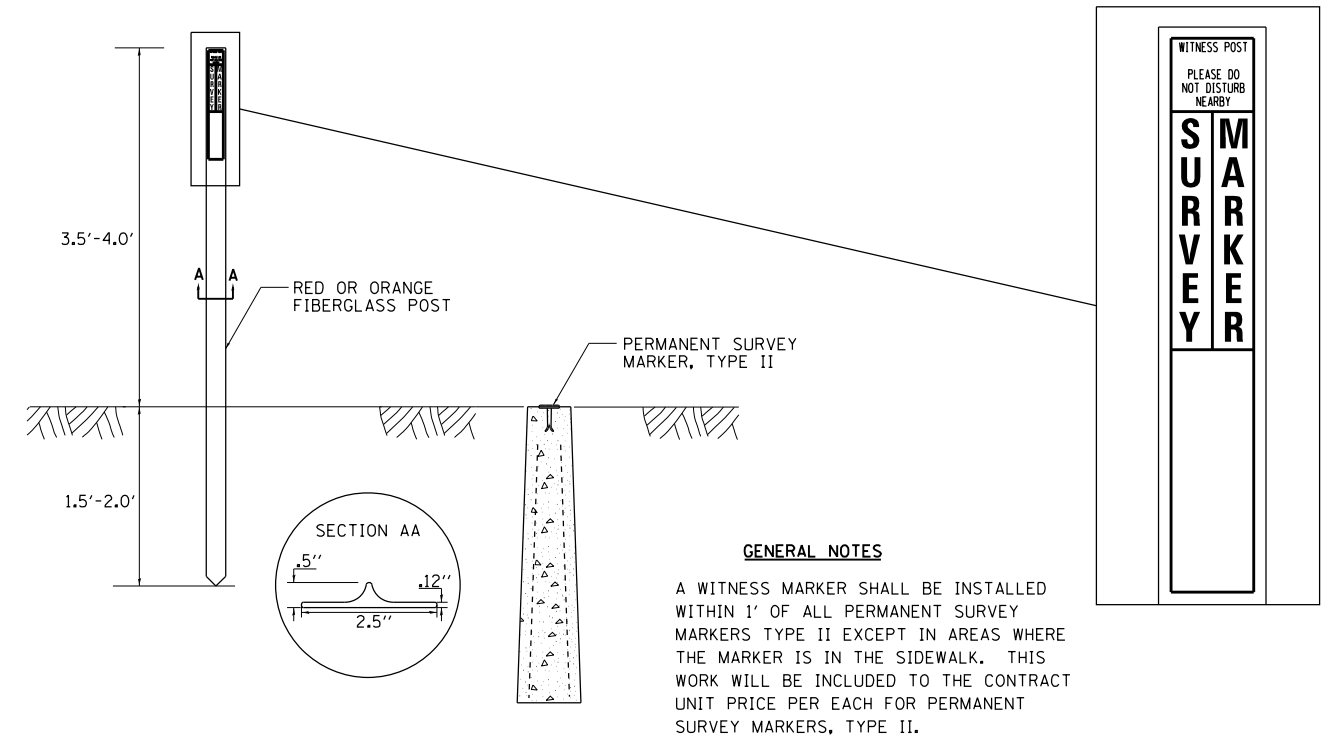


REVISED - 6-27-14  
10-21-08

# PERMANENT SURVEY MARKERS, TYPE II



# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

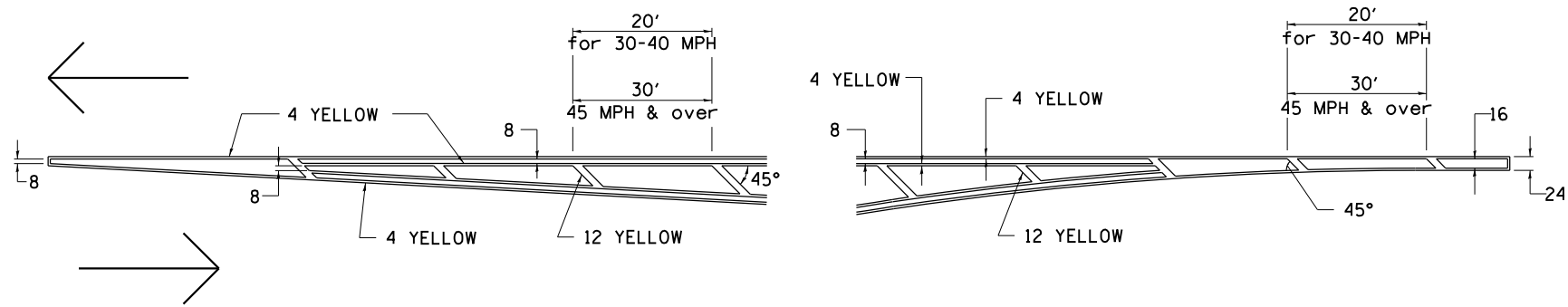


PLOT DATE = Jul-28-2016 01:53:58 PM

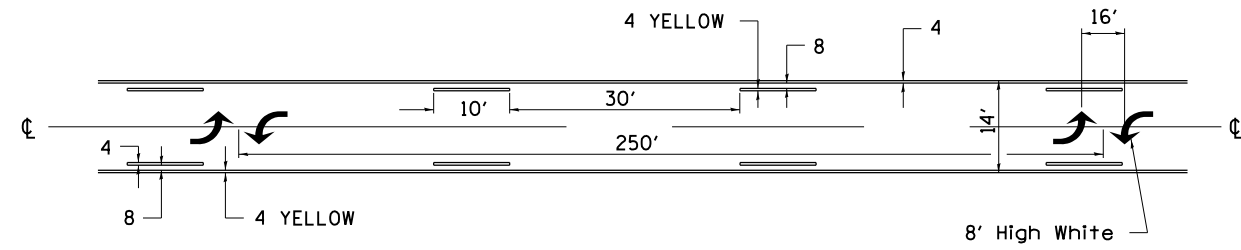
REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11		37	10BR-1	HENRY	95	67
REVISED -		CONTRACT NO. 64H02				
REVISED -		SCALE: 100.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

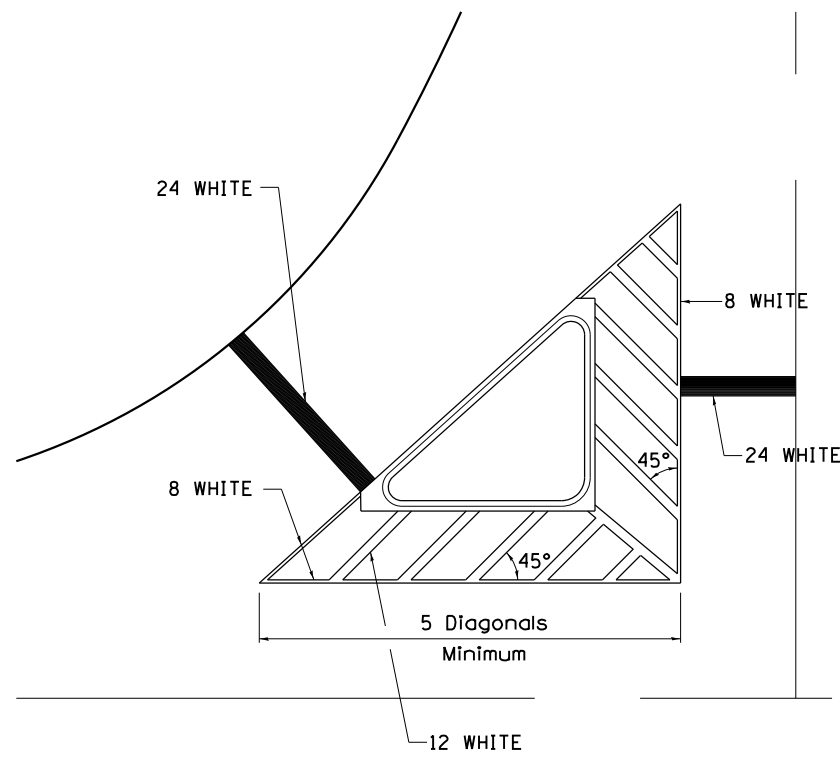


## MEDIAN PAVEMENT MARKING



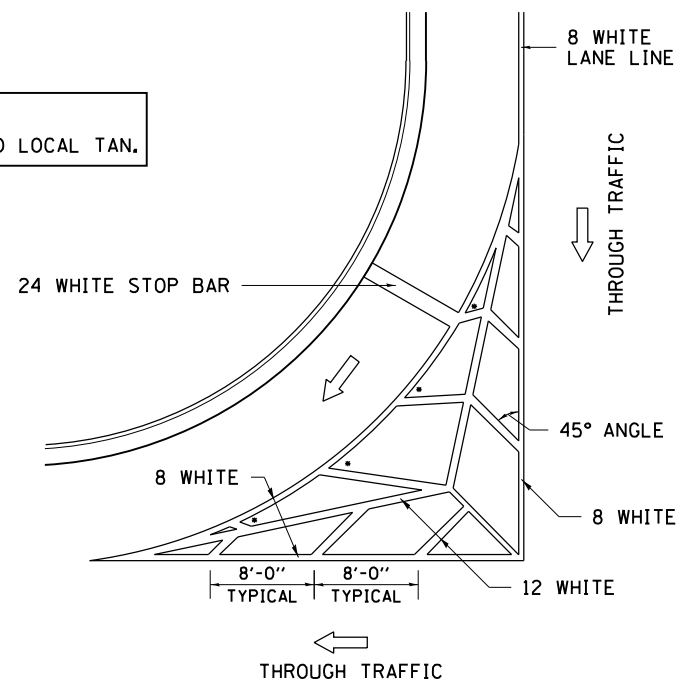
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



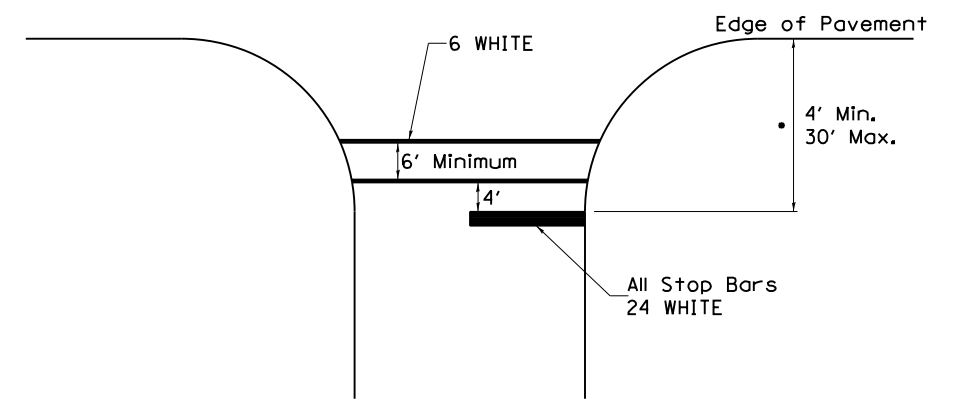
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 6-27-14
pw\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 2\Projects\0206711\Drawings\CAD\Drawings\0206711-sht-details		DRAWN -	REVISED - 3-05-12
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jul-28-2016 01:54:21 PM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

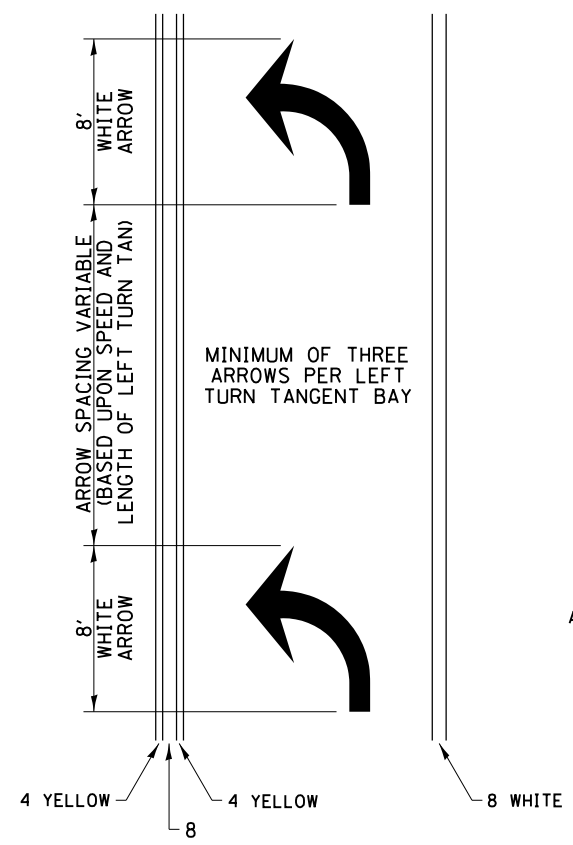
REGION 2 / DISTRICT 2 STANDARD

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	68
CONTRACT NO. 64H02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

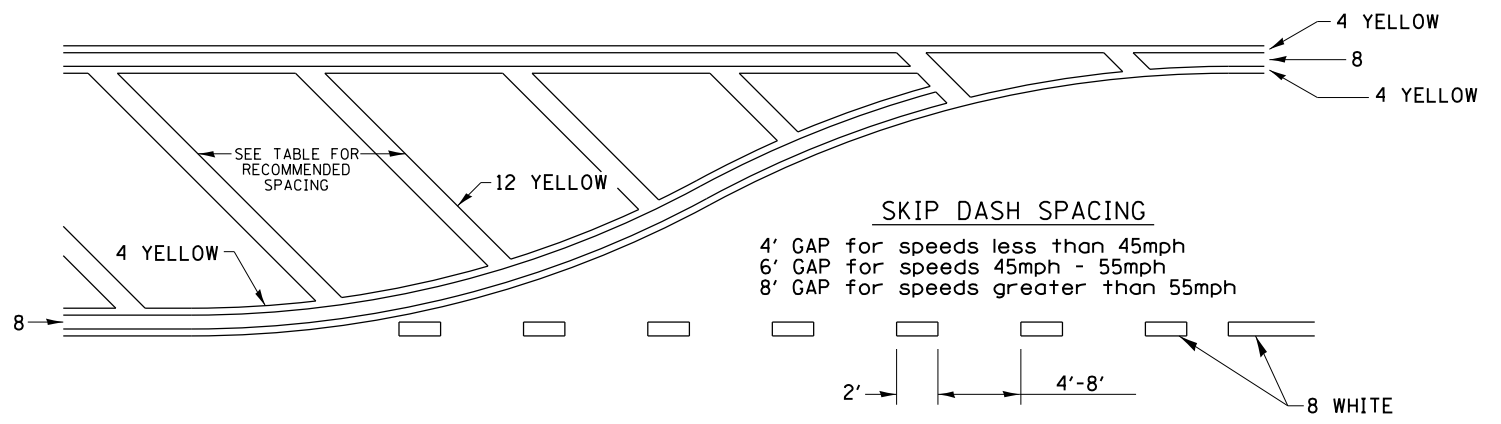
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

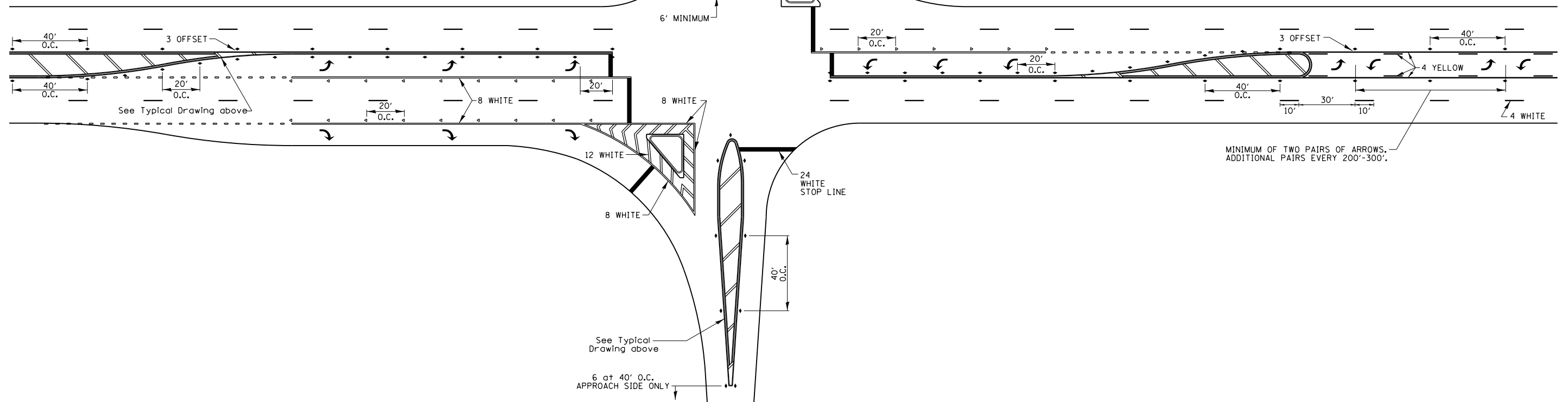
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

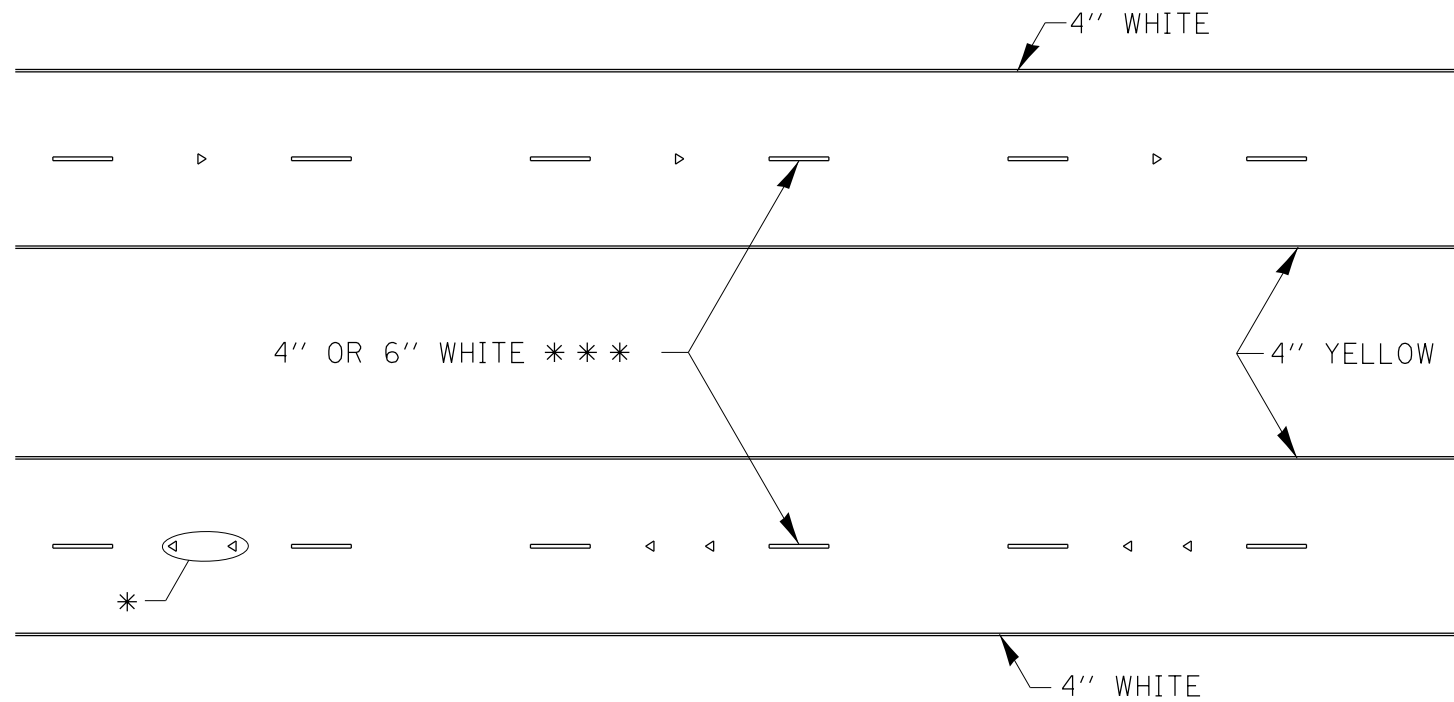
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



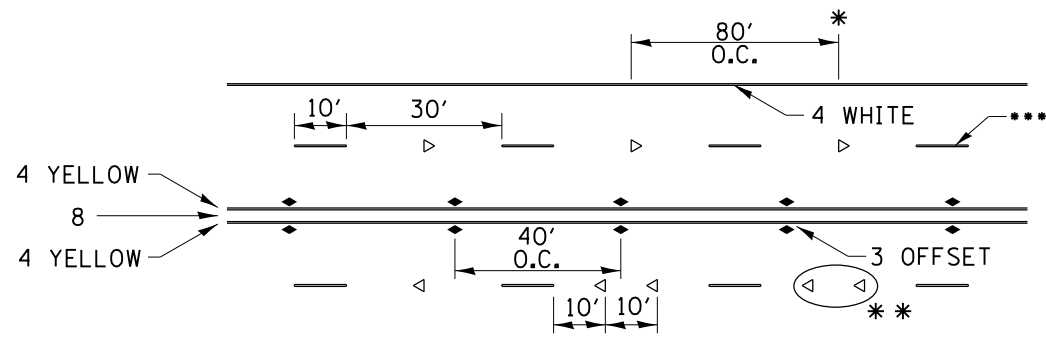
FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED - 6-27-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
							37	10BR-1	HENRY	95	69			
							CONTRACT NO. 64H02							
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
DRAWN Data\CADsheets\2026711-sht-details		CHECKED -	REVISED - 3-05-12	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.				
PLOT SCALE = 100.0000' / 1" /		DATE -	REVISED -	<b>TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1</b>										
PLOT DATE = Jul-28-2016 01:54:39 PM		DATE -	REVISED -											

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT > 20,000.

## MULTI-LANE / DIVIDED

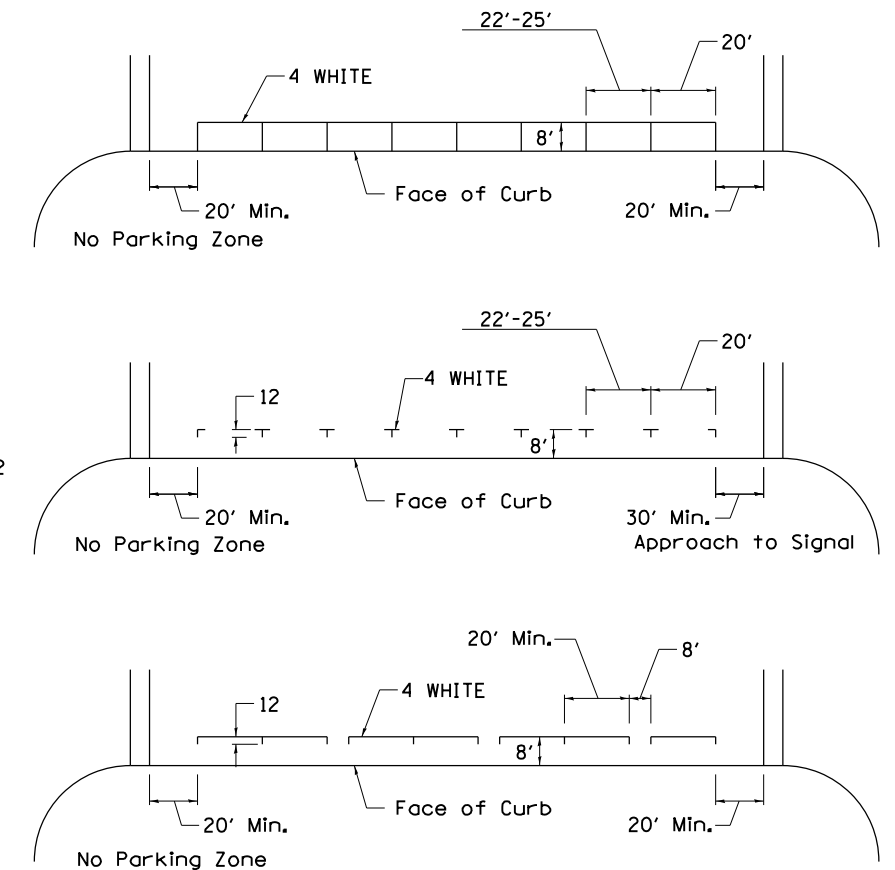


- \* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- \*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

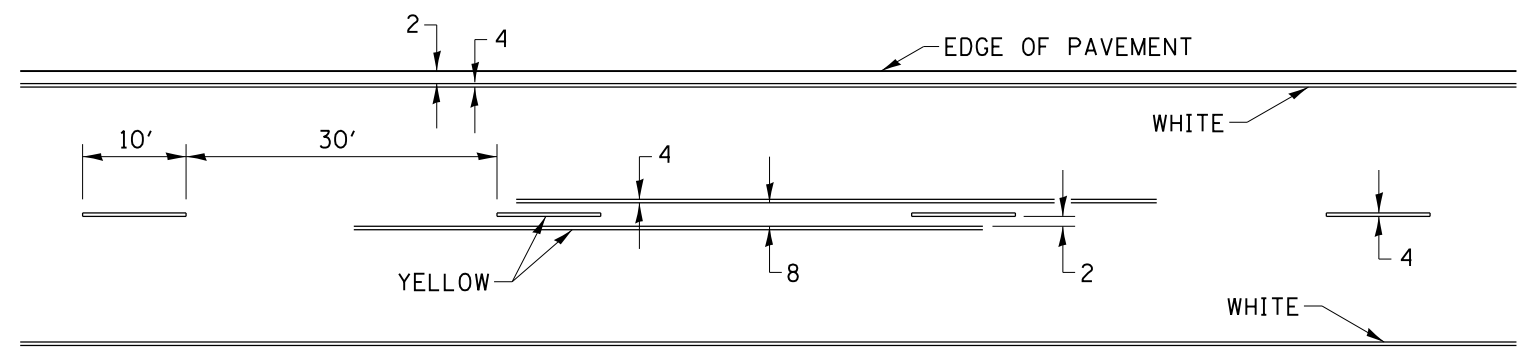
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



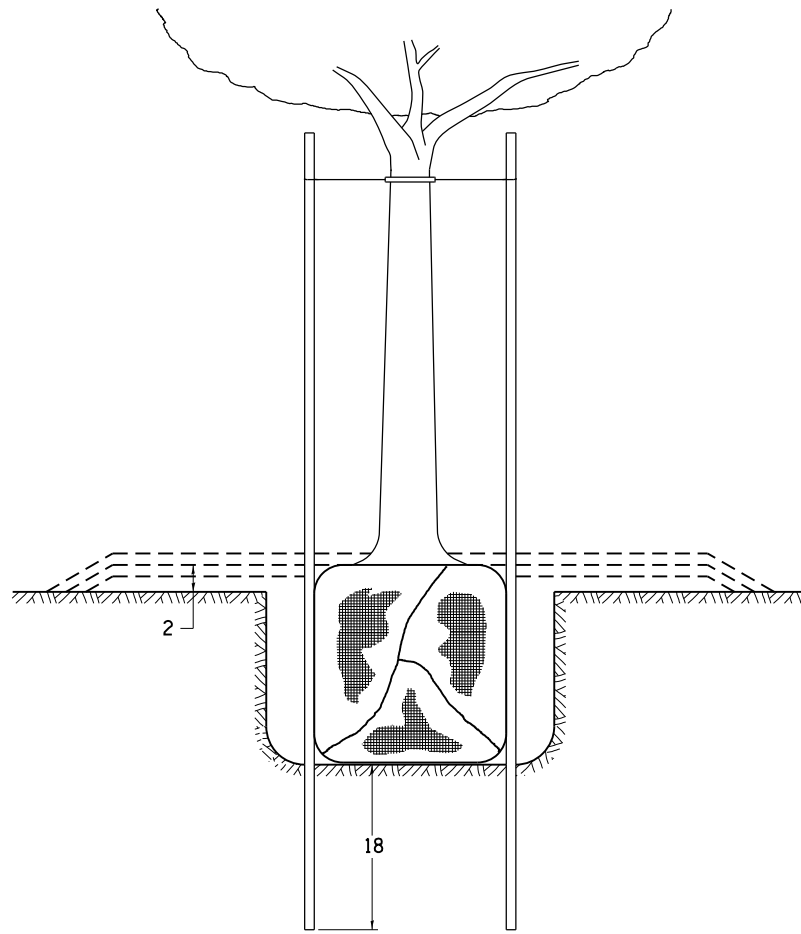
## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



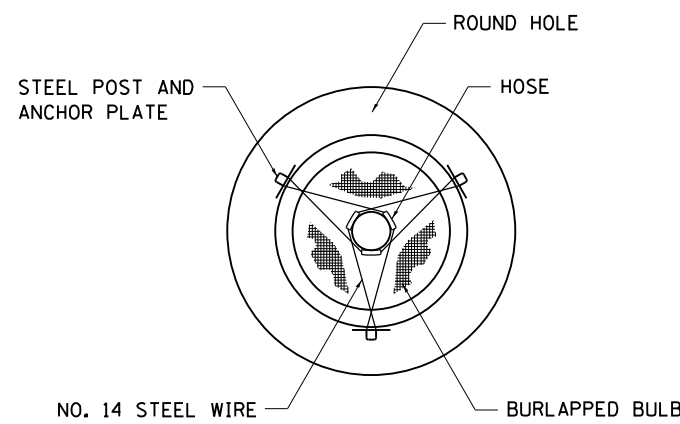
## SYMBOLS

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 6-27-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 2\Projects\0206711\Drawings\CADsheets\0206711-sht-details	DRAWN BY	CHECKED -	REVISED - 8-27-13					37	IOBR-1	HENRY	95	70
		PLOT SCALE = 100.0000' / in.	REVISED - 11-28-12		CONTRACT NO. 64H02							
		PLOT DATE = Jul-28-2016 01:55:16 PM	DATE -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

# DETAILS OF PLANTING AND BRACING TREES

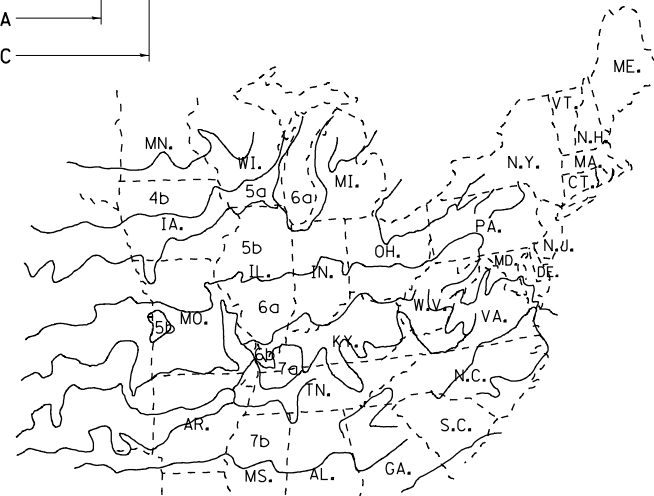
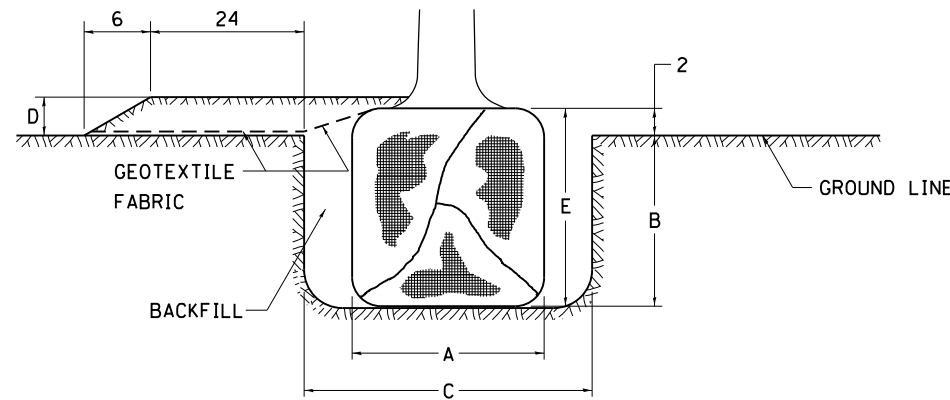


TREES SMALLER THAN 4 1/2 IN DIAMETER



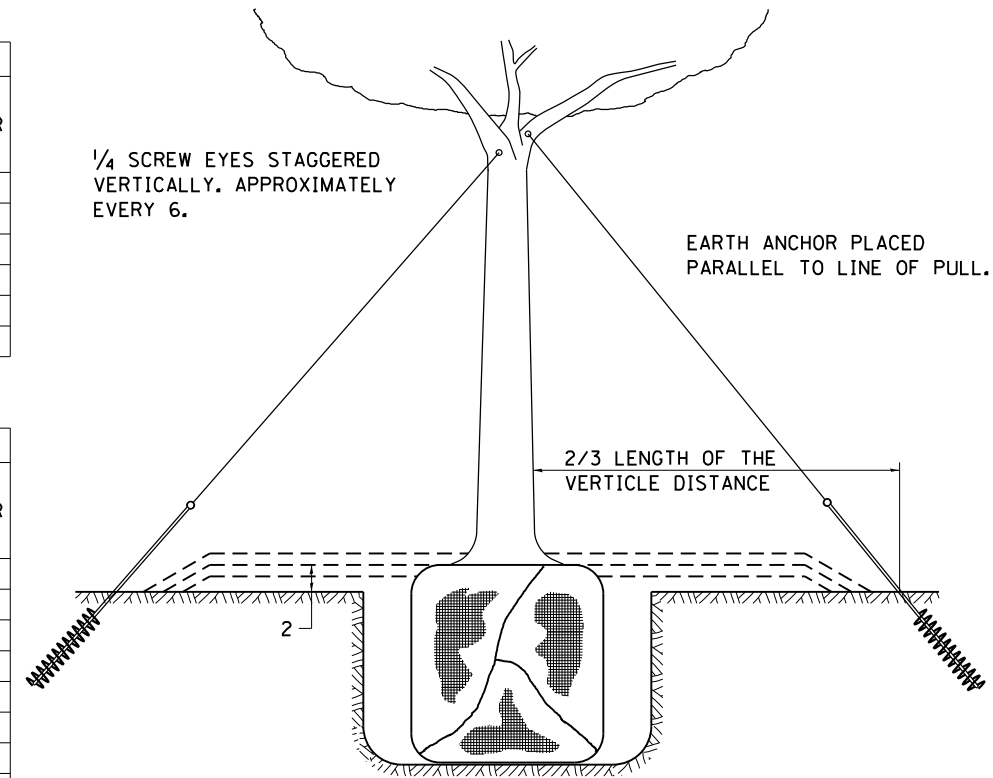
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38

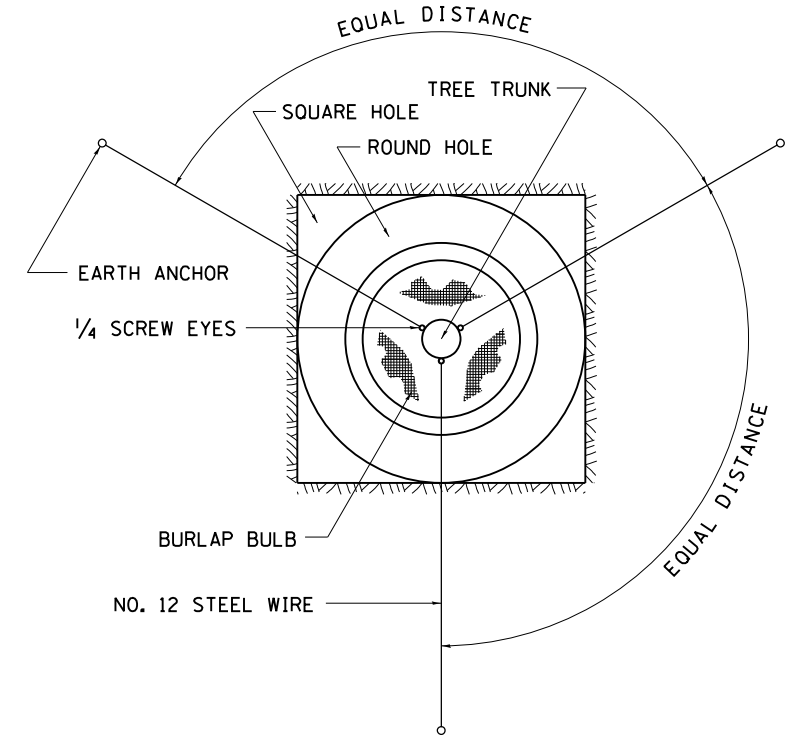


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES  
UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 10-18-11
pw:\1\084EBIDINTEG\11\inois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\0206711-sht-details		DRAWN	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
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PLOT DATE = Jul-28-2016 01:55:49 PM			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

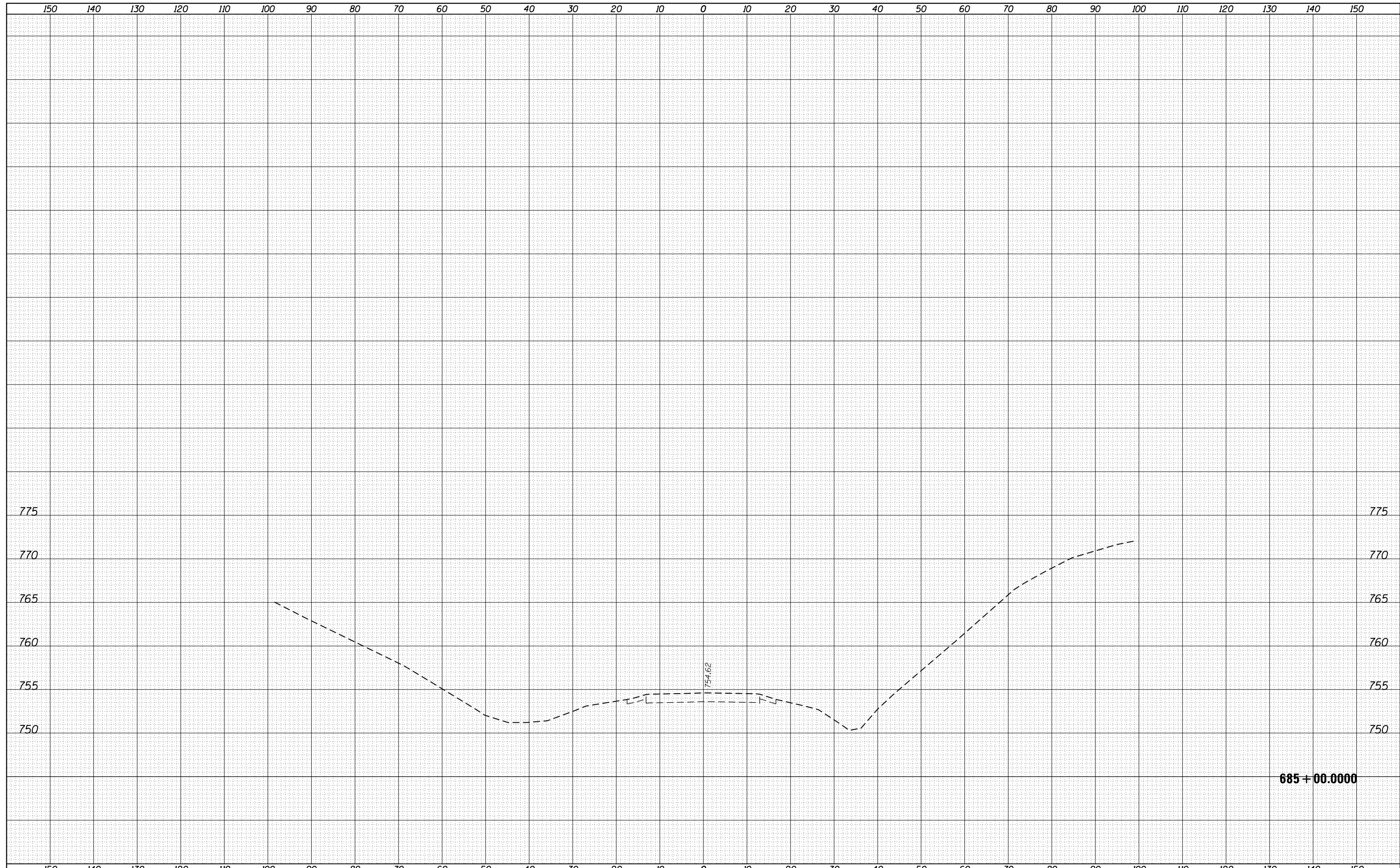
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	71
CONTRACT NO. 64H02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE

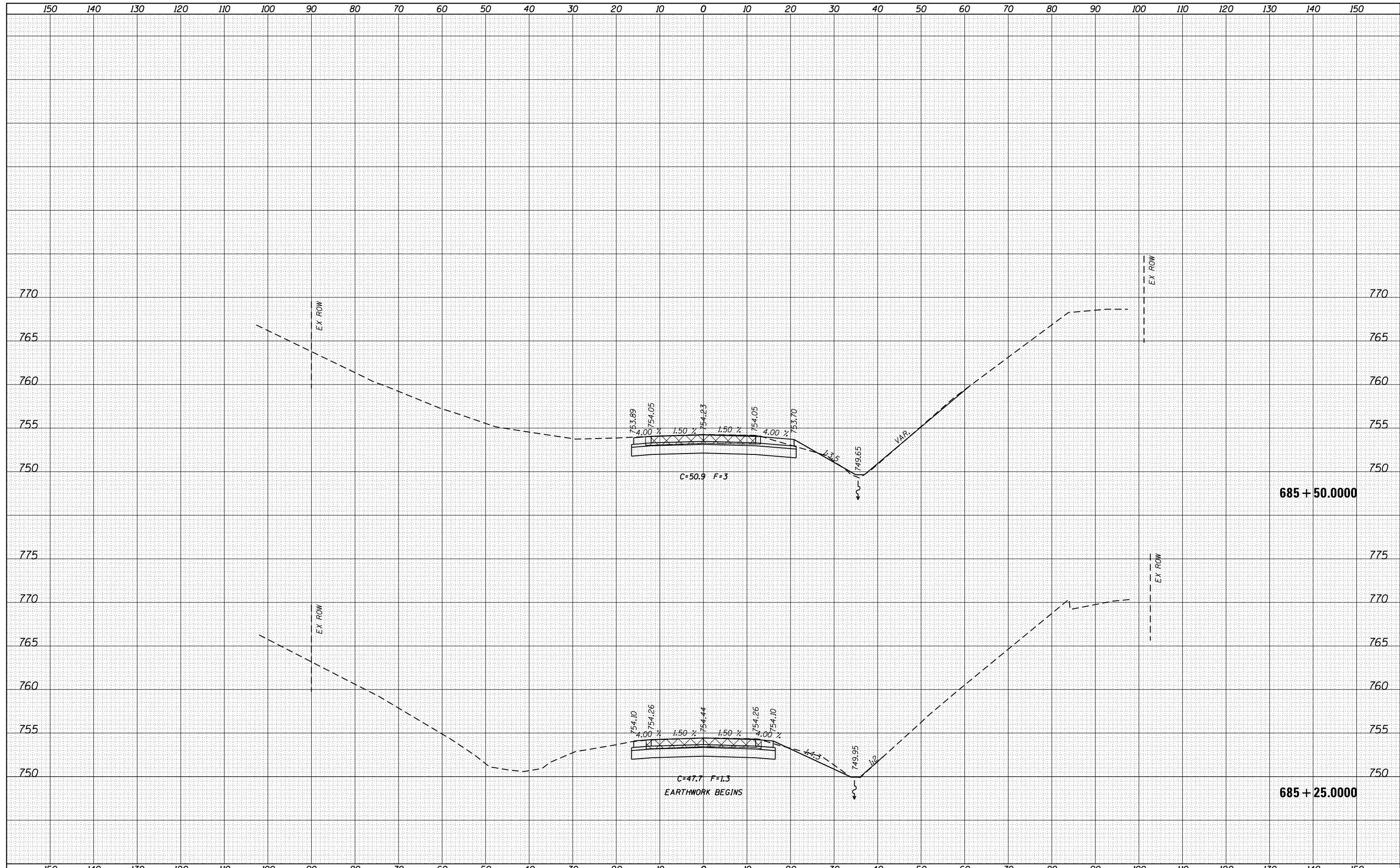


FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REvised -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	SCALE:		SHEET OF SHEETS	STA. 685+00 TO STA. 685+00	F.A.P. RTE. 37 SECTION 10BR-1 COUNTY HENRY CONTRACT NO. 64H02
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TEMPLATE	
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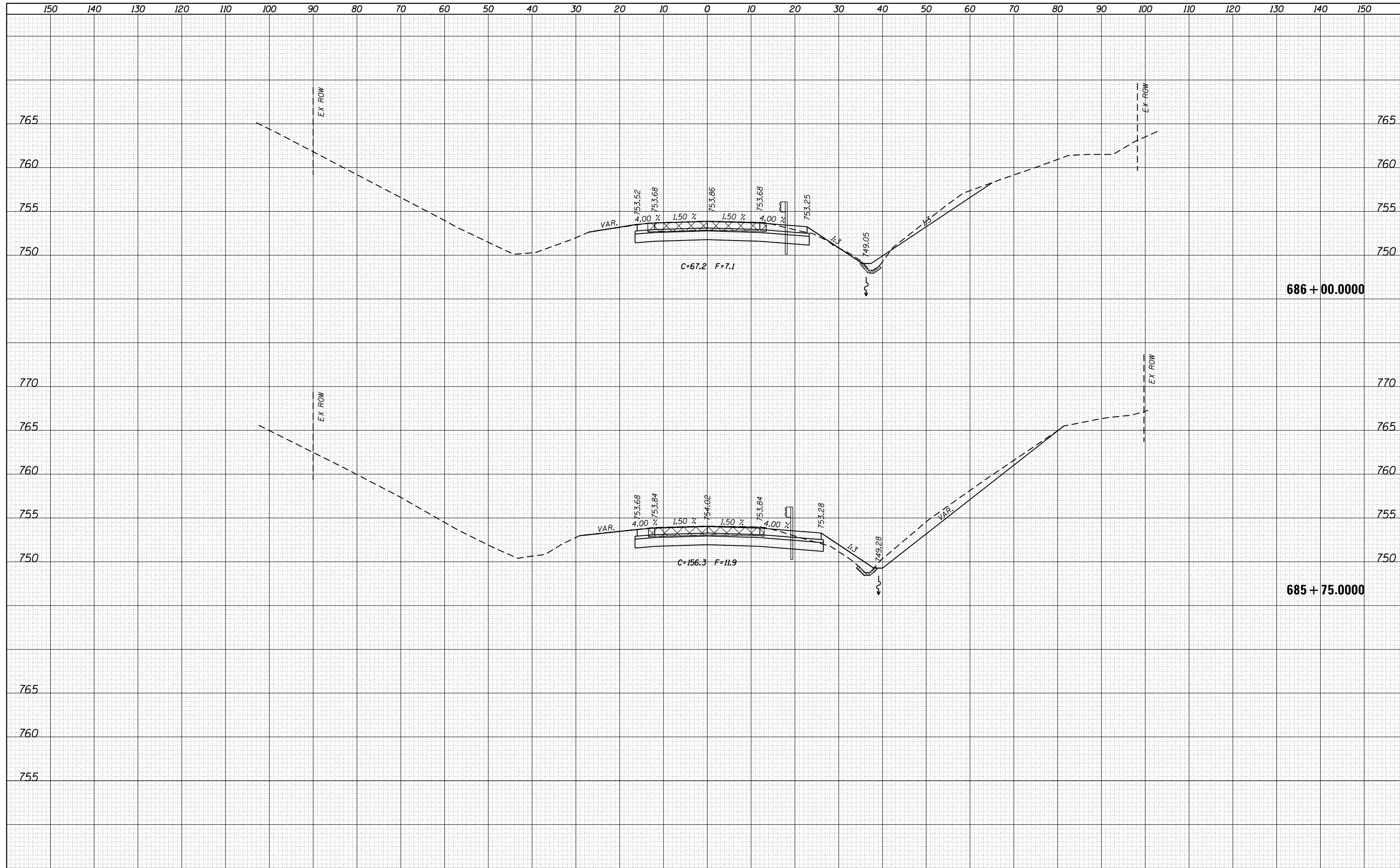
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FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	\\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\D206711\CADD\DRAWING\shets\D206711-sht-xssht.dgn	CHECKED -	REVISIED -			37	10BR-1	HENRY	95	73	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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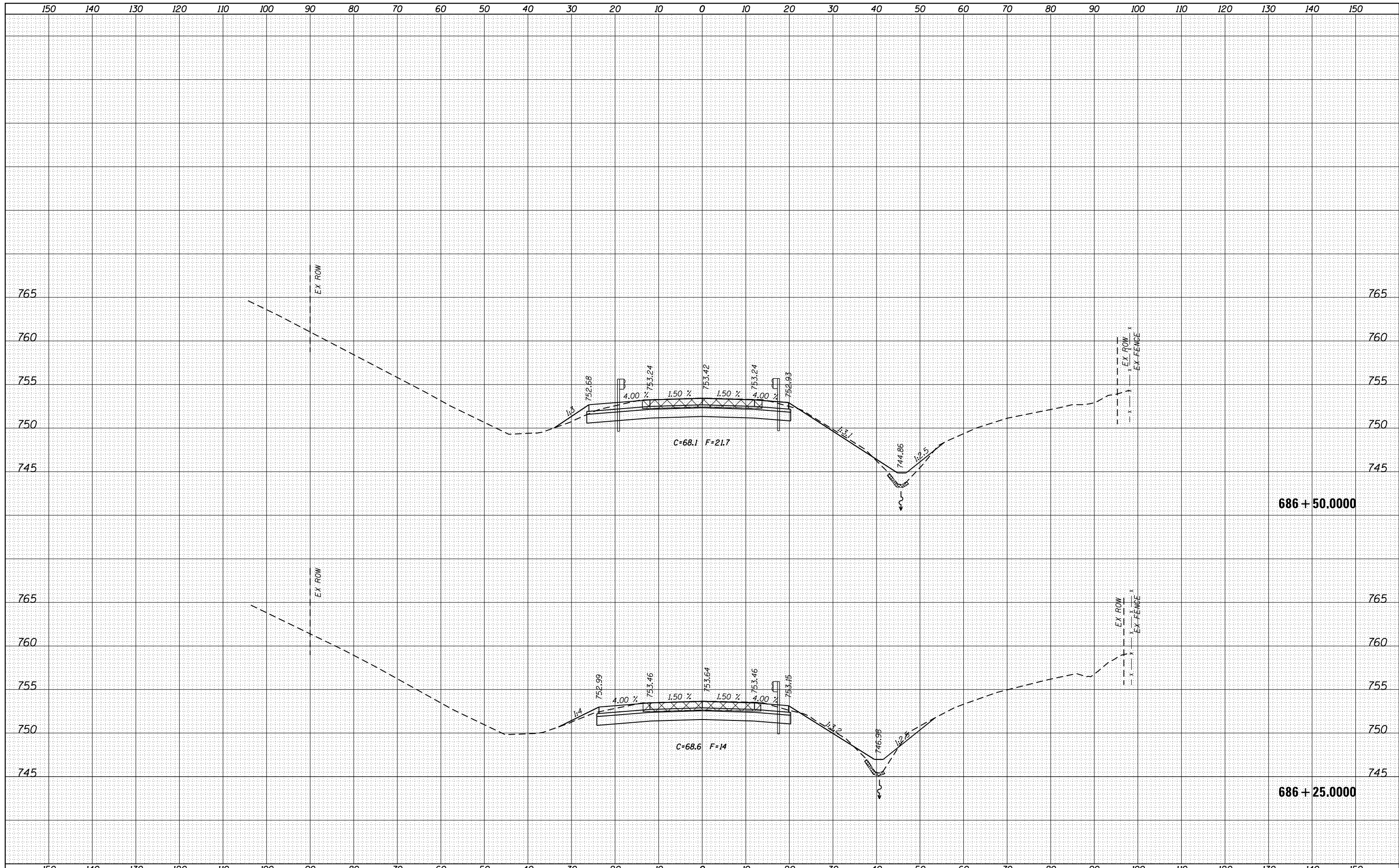
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	\\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\0206711\CAD\DRAWING\shets\0206711-sht-xssht.dgn	CHECKED -	REVISIED -			37	10BR-1	HENRY	95	74	
	PLOT SCALE = 20.0000' / in.	DATE -	REVISIED -			CONTRACT NO. 64H02					
	PLOT DATE = Jul-28-2016 01:57:47 PM		REVISIED -			SCALE:	SHEET	OF	SHEETS	STA. 685+54.2794 TO STA. 686+00	ILLINOIS FED. AID PROJECT

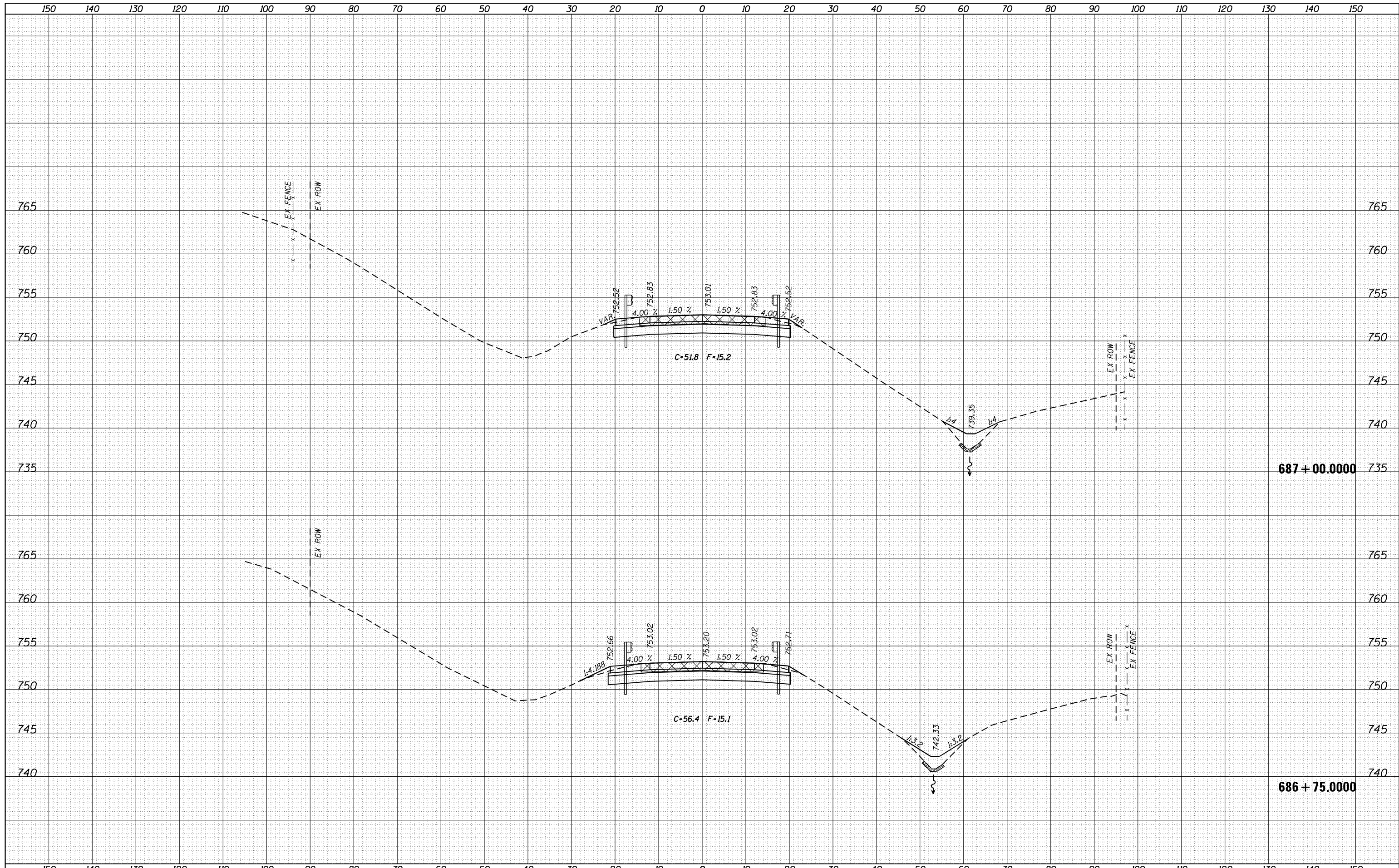
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NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED



BY	DATE
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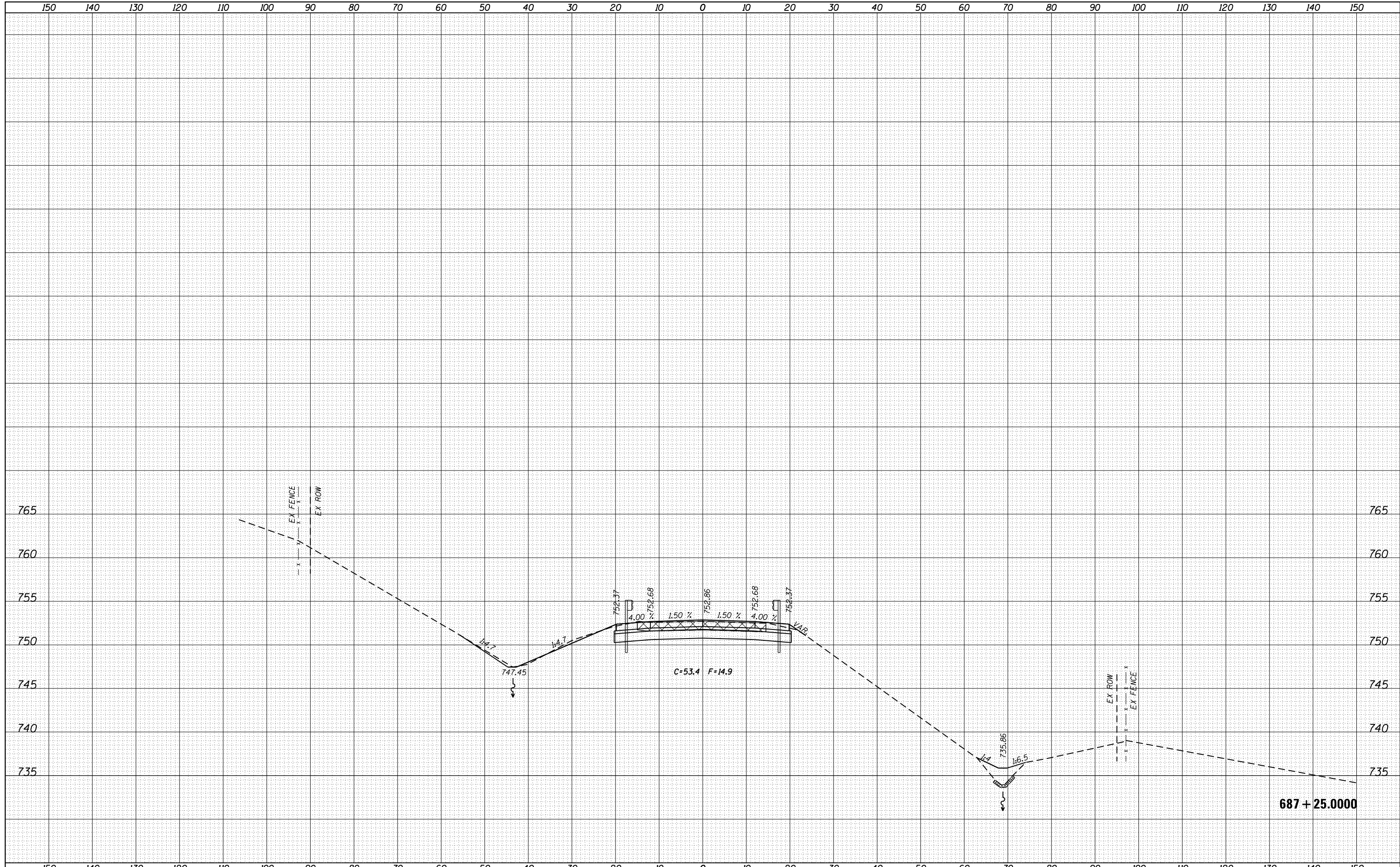
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REVISIED -  
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 CHECKED -  
 DATE -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 34  
 X-SECTIONS  
 SCALE: SHEET OF SHEETS STA. 686+75.0000 TO STA. 687+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	76
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 34  
 X-SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 687+25.0000 TO STA. 687+25.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37	10BR-1	HENRY	95	77
CONTRACT NO. 64H02			ILLINOIS FED. AID PROJECT	

DATE	
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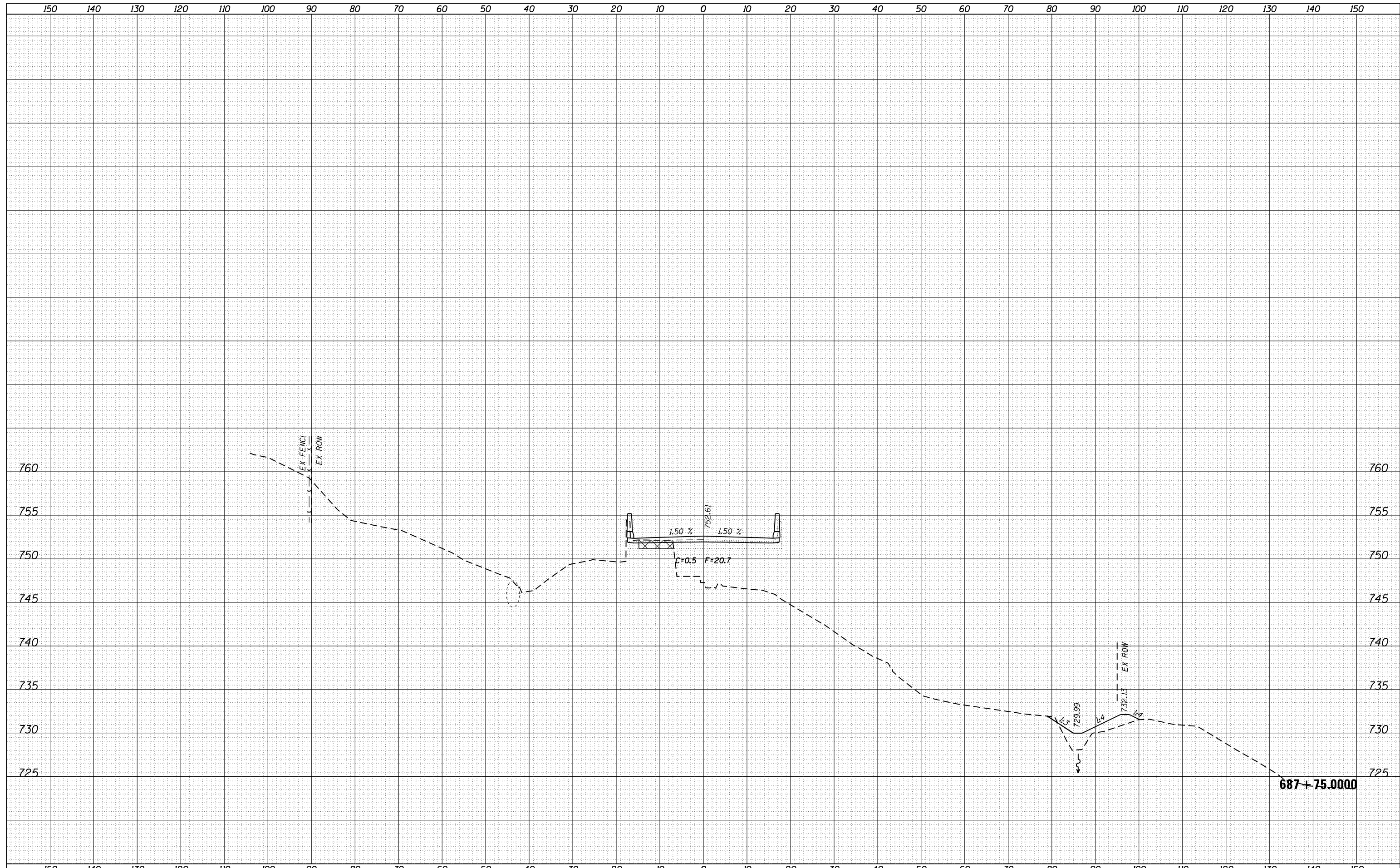
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							37	10BR-1	HENRY	95	78	
							CONTRACT NO. 64H02					
							ILLINOIS FED. AID PROJECT					
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISIONS -	SCALE:		SHEET OF SHEETS	STA. 687+50	TO STA. 687+50				
PLOT DATE = Jul-28-2016 01:59:19 PM		DATE -	REVISIONS -									

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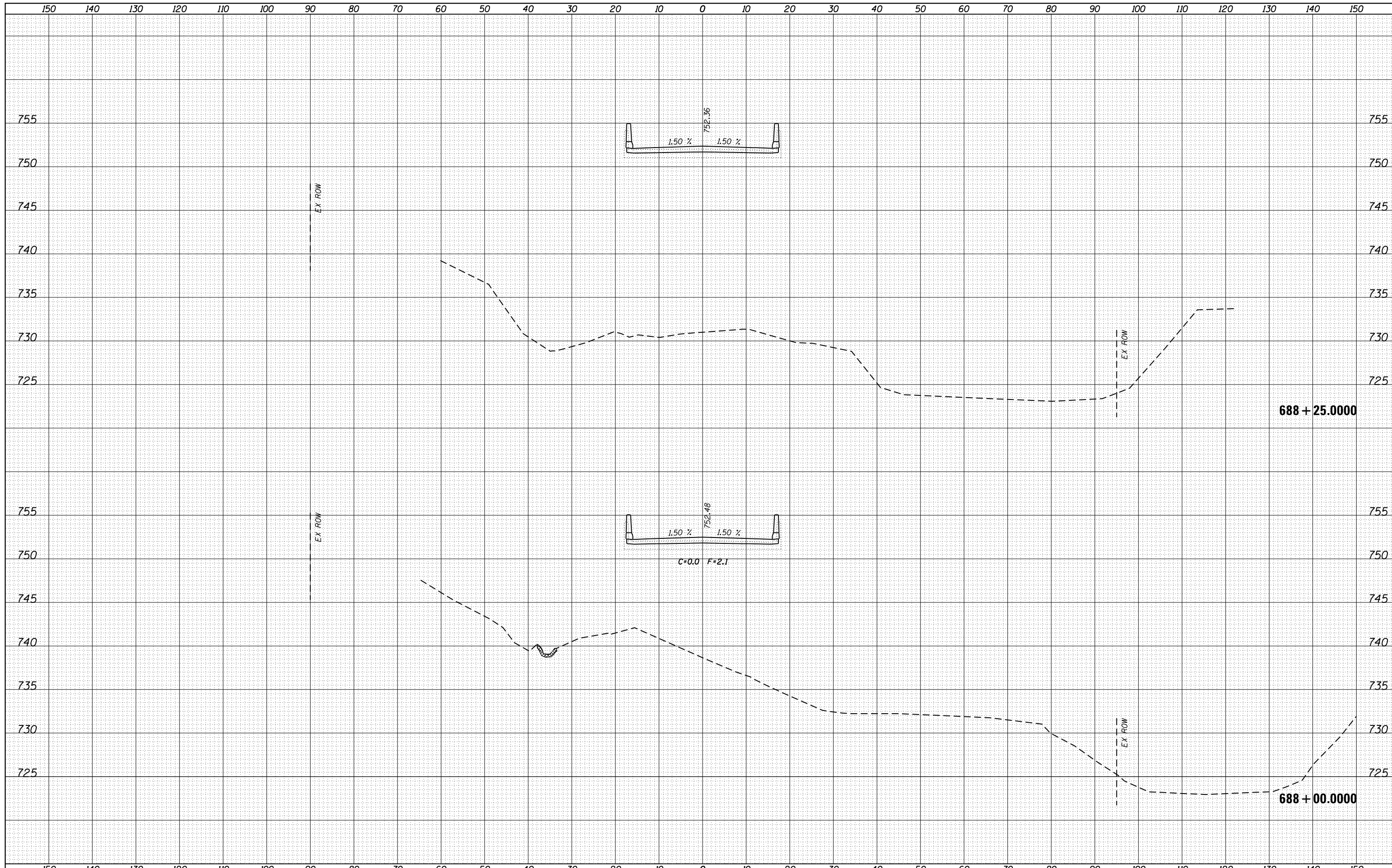
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ORIGINAL SURVEY NO.	
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NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISOR -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\D206711\CADD\DRAWING\sheds\206711-sht-xssht.dgn	REVISOR -	REVISOR -			37	10BR-1	HENRY	95	79	
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SCALE:		SHEET OF SHEETS		STA. 687+75.0000 TO STA. 687+75.0000							

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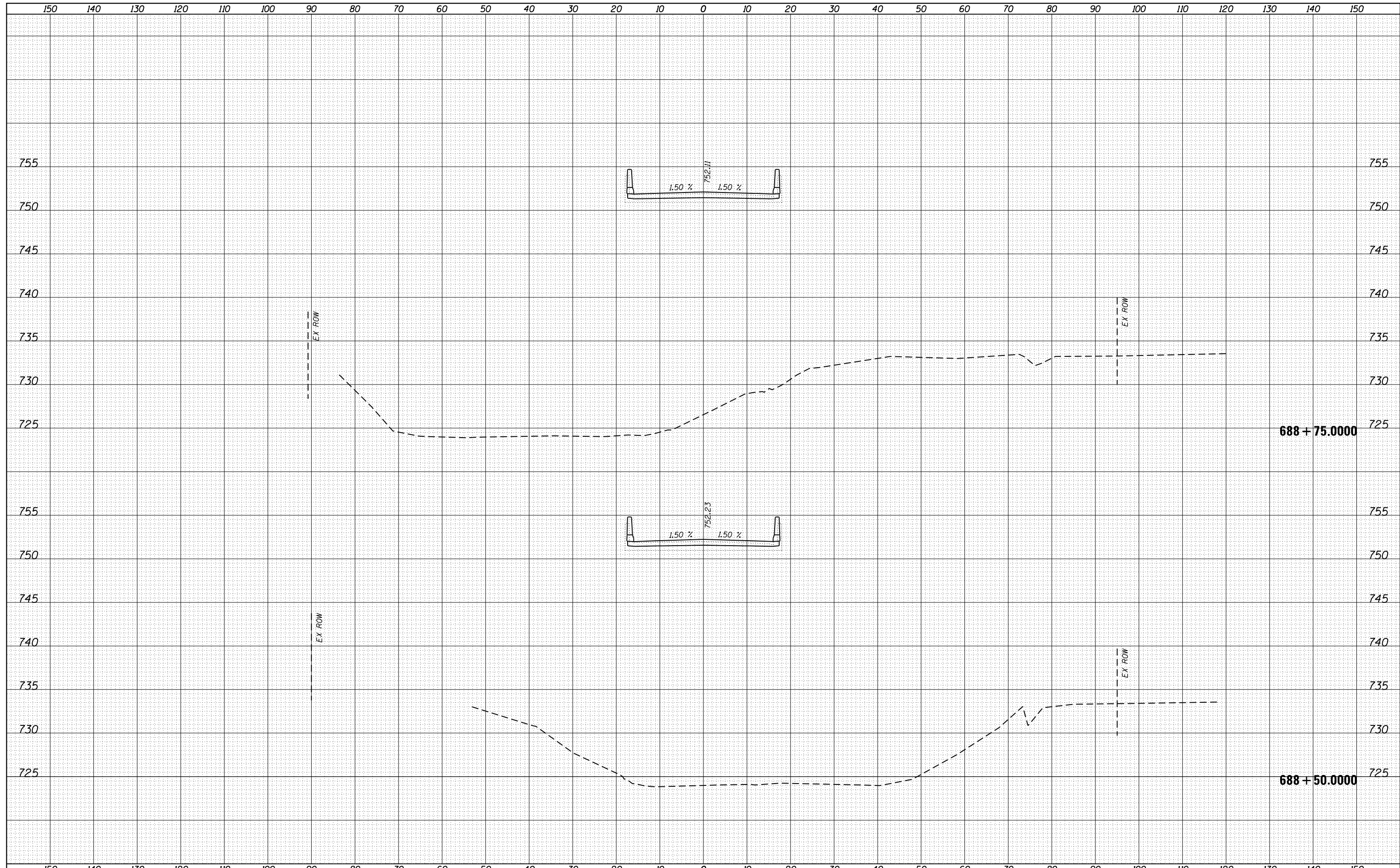


FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISER -	STATE OF ILLINOIS		US 34		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 20.0000' / in.		DATE -	REVISER -			SCALE:		SHEET	OF	SHEETS	STA. 688+00	TO STA. 688+25.0000	CONTRACT NO. 64H02
Default		PLOT DATE = Jul-28-2016 02:00:01 PM	REVISER -								ILLINOIS FED. AID PROJECT		



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FINAL SURVEY	
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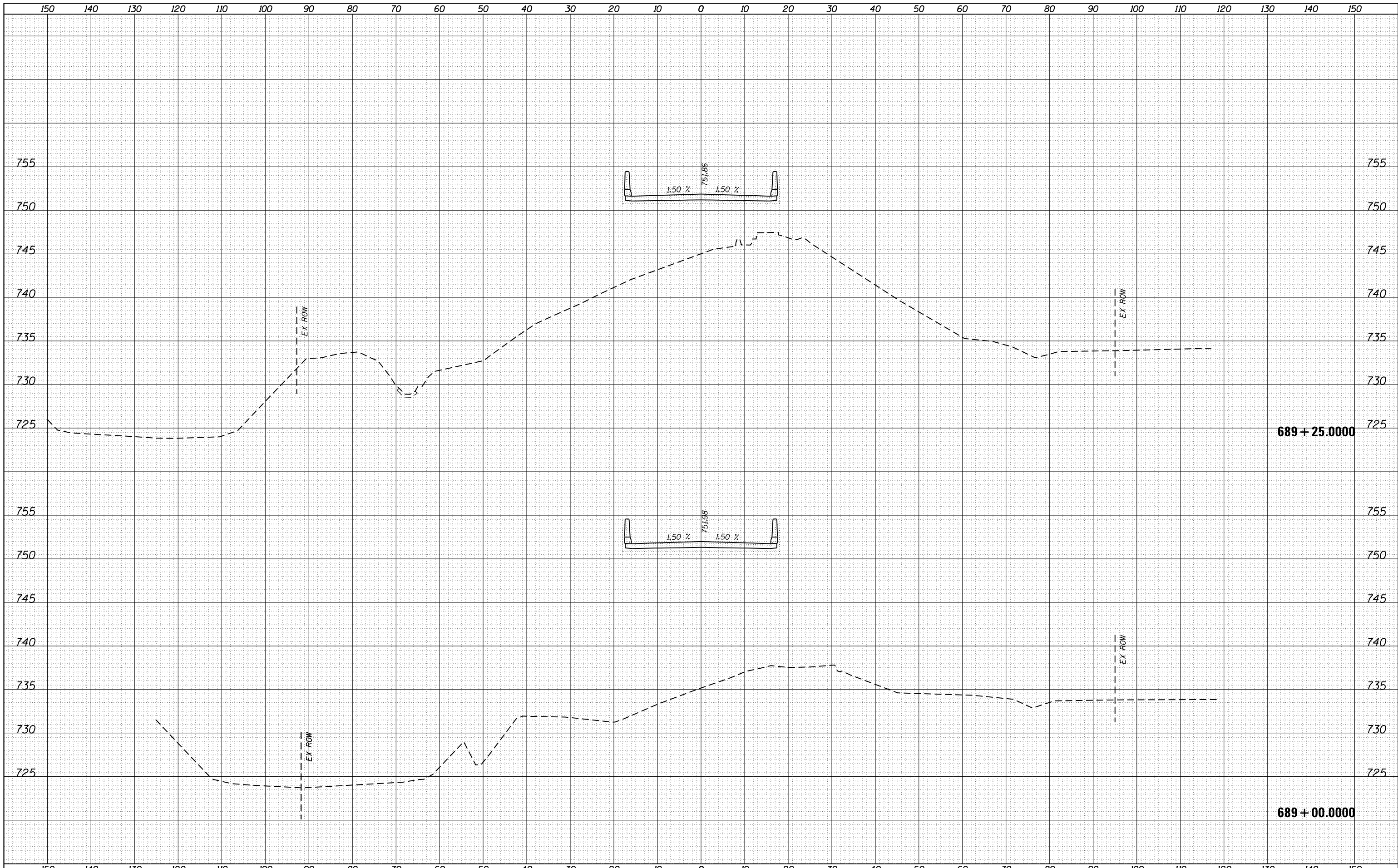
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FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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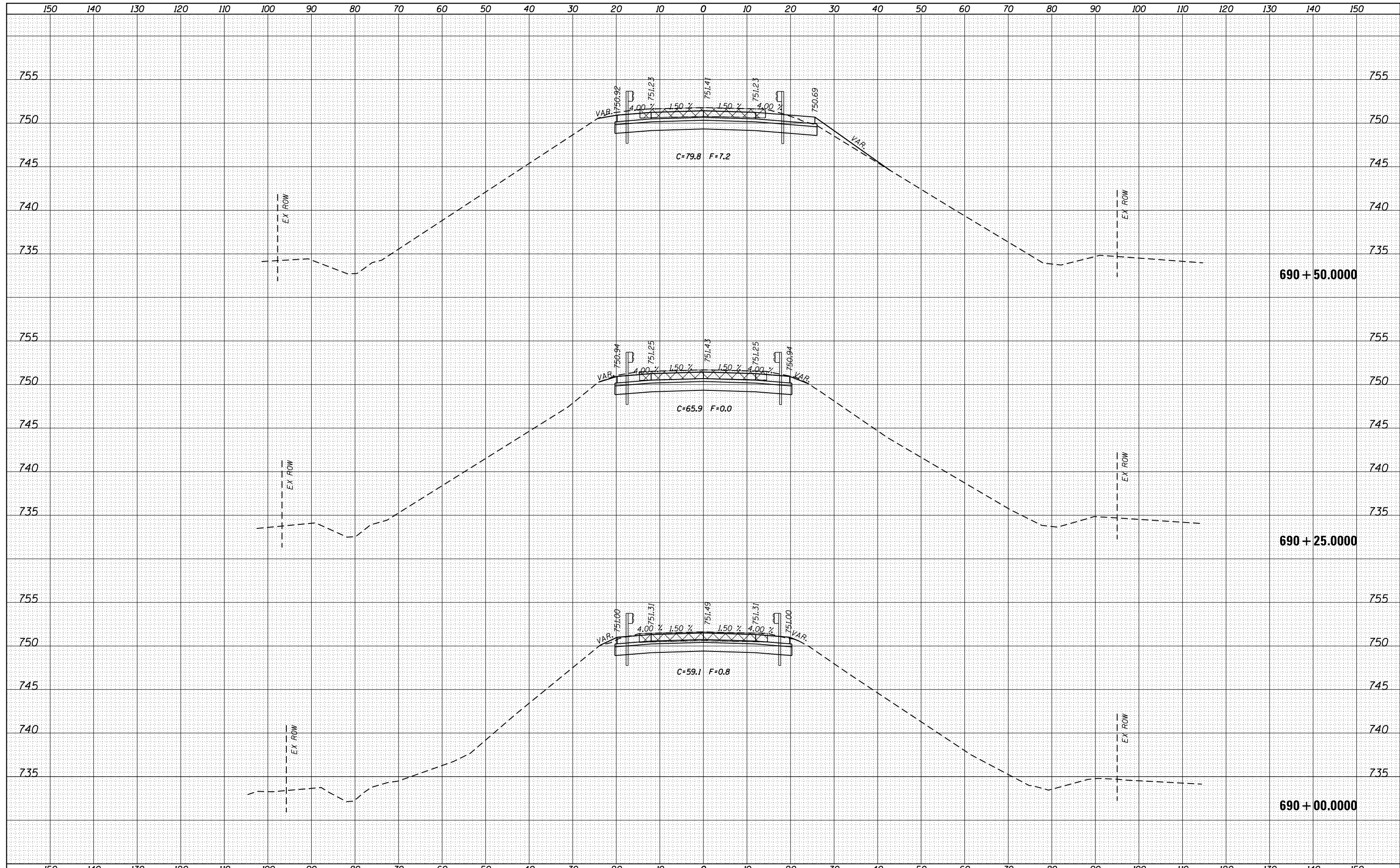


FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	\\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\0206711\CADD\DRAWING\shets\0206711-sht-xssht.dgn	CHECKED -	REVISIED -			37	10BR-1	HENRY	95	82	
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TEMPLATE	
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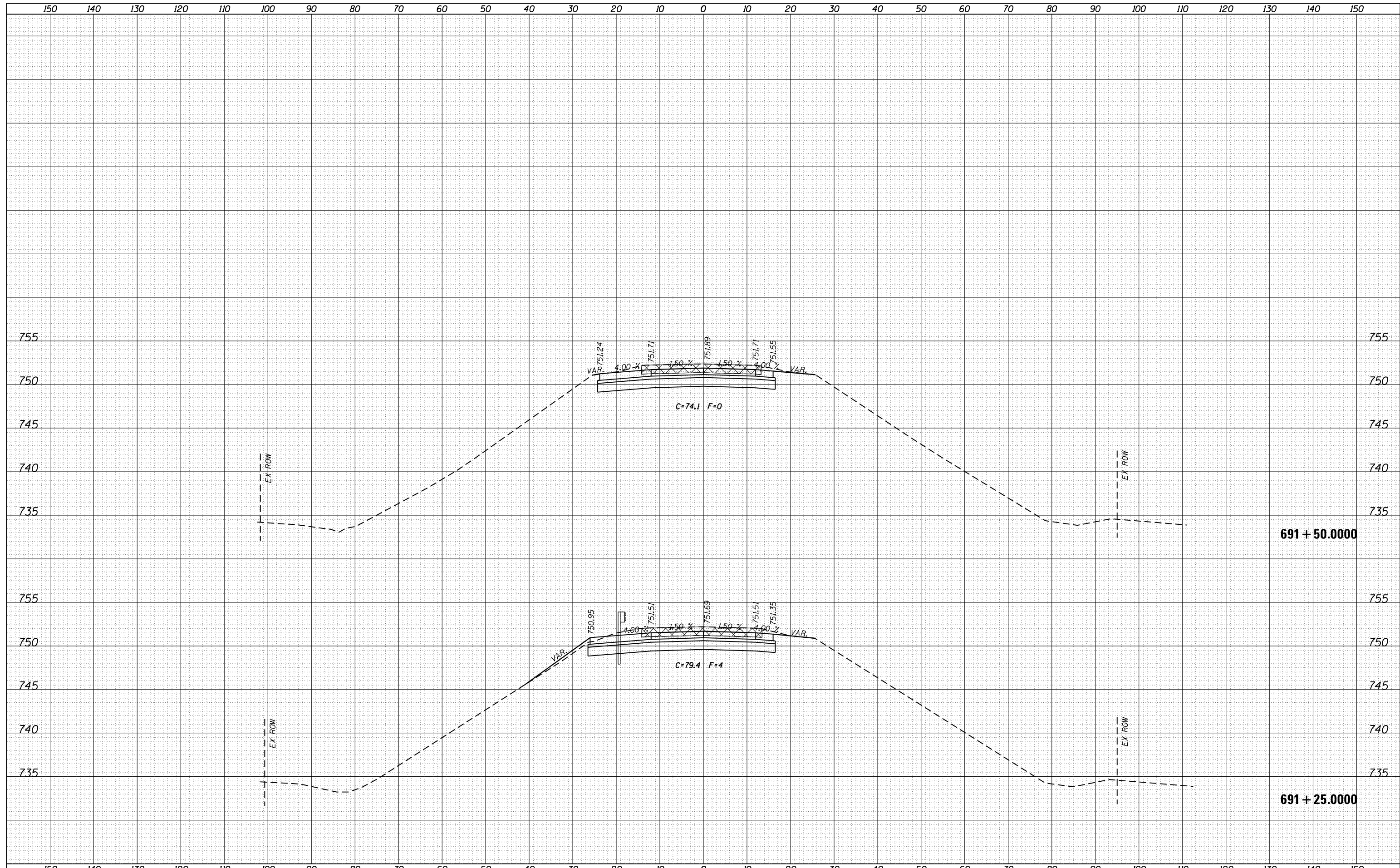


FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISOR -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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						SCALE:	SHEET	OF	SHEETS	STA. 690+00	TO STA. 690+50



BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

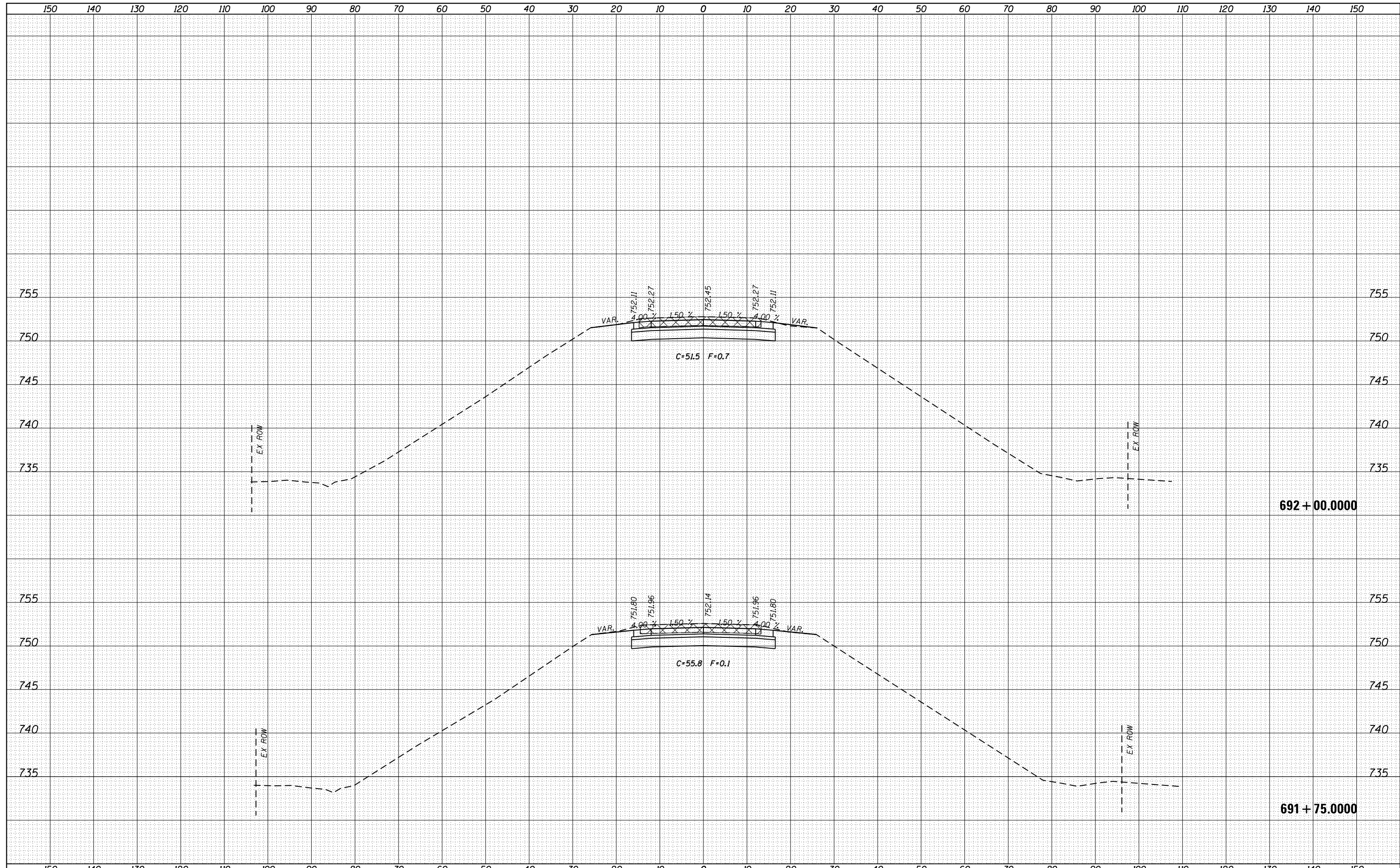
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	AREAS CHECKED



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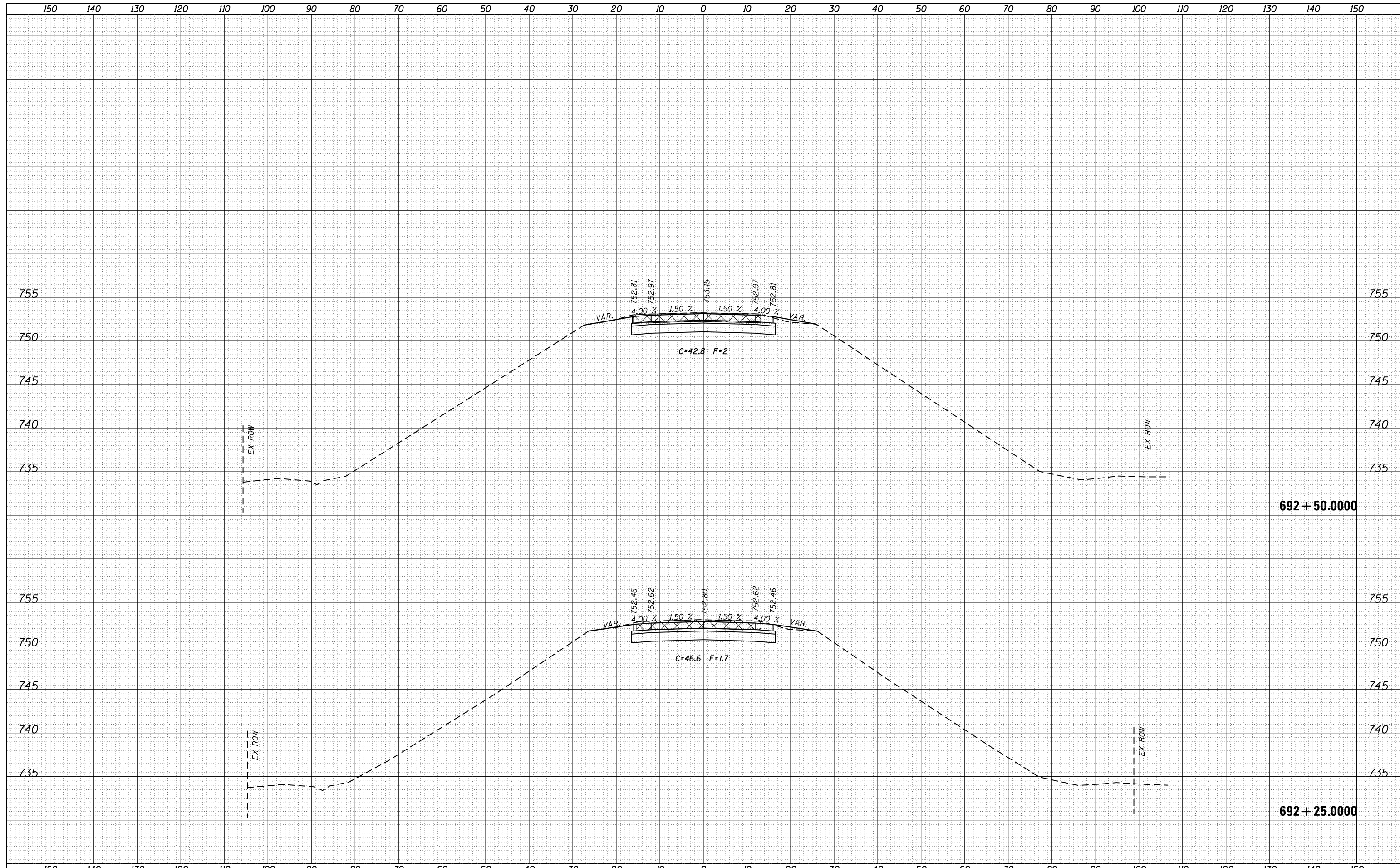
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ORIGINAL SURVEY	
NOTE BOOK	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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NOTE BOOK	PLOTTED
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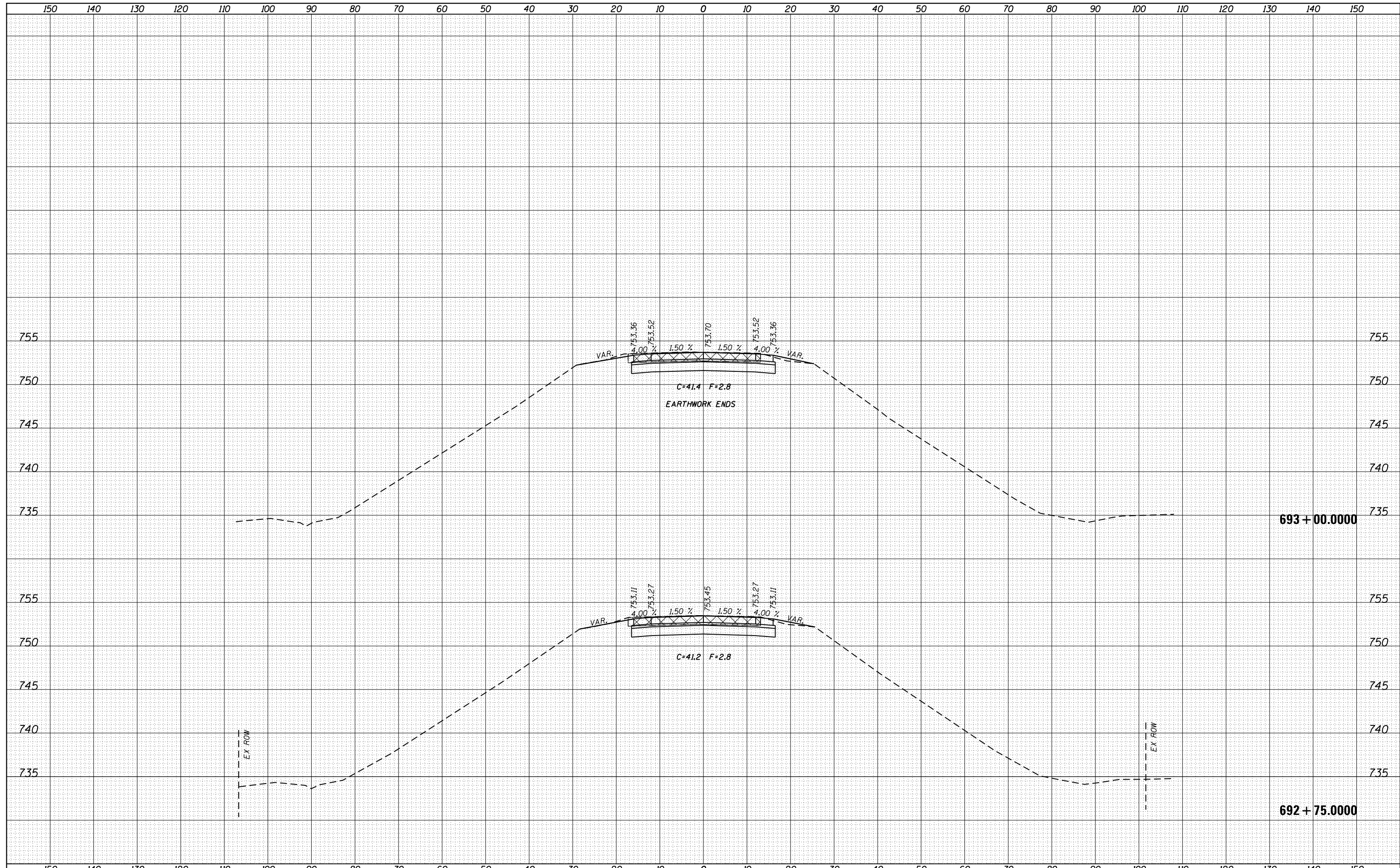


FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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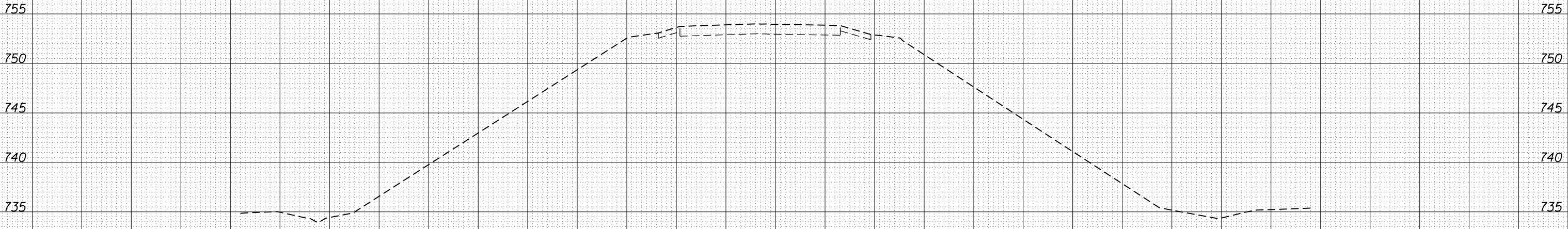


FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34</b> <b>X-SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	DOT Offices\District 2\Projects\D206711\CADD\DRAWINGS\206711-sht-xssht.dgn	CHECKED -	REVISIED -			37	10BR-1	HENRY	90	89	
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



693 + 25.000

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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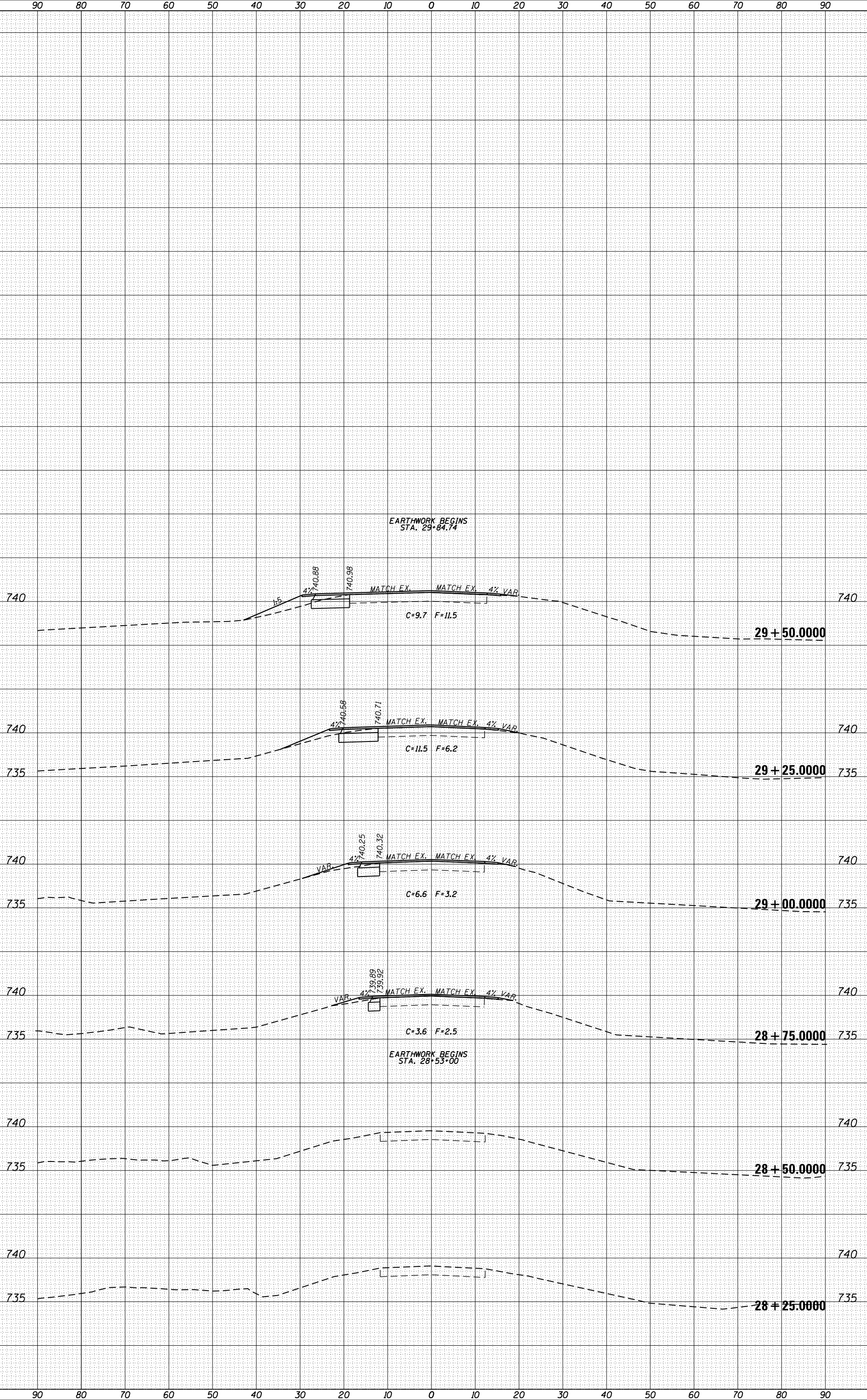
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

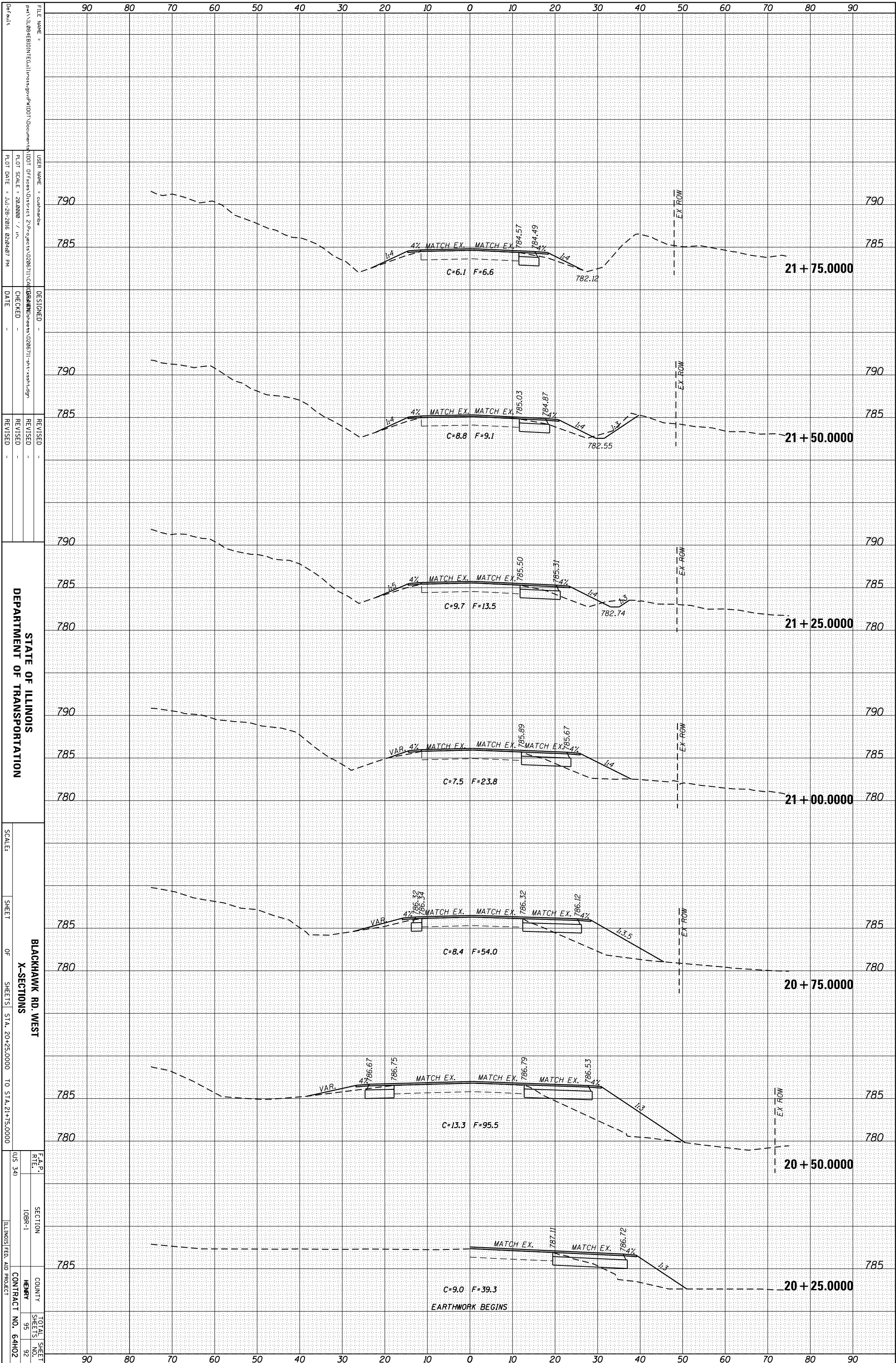
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 SHEET OF SHEETS STA. 28+25.0000 TO STA. 29+50.0000

BLACKHAWK RD. EAST  
 X-SECTIONS  
 SECTION 1088-1  
 COUNTY HENRY  
 CONTRACT NO. 64H02  
 TOTAL SHEET NO. 95  
 SHEET NO. 91



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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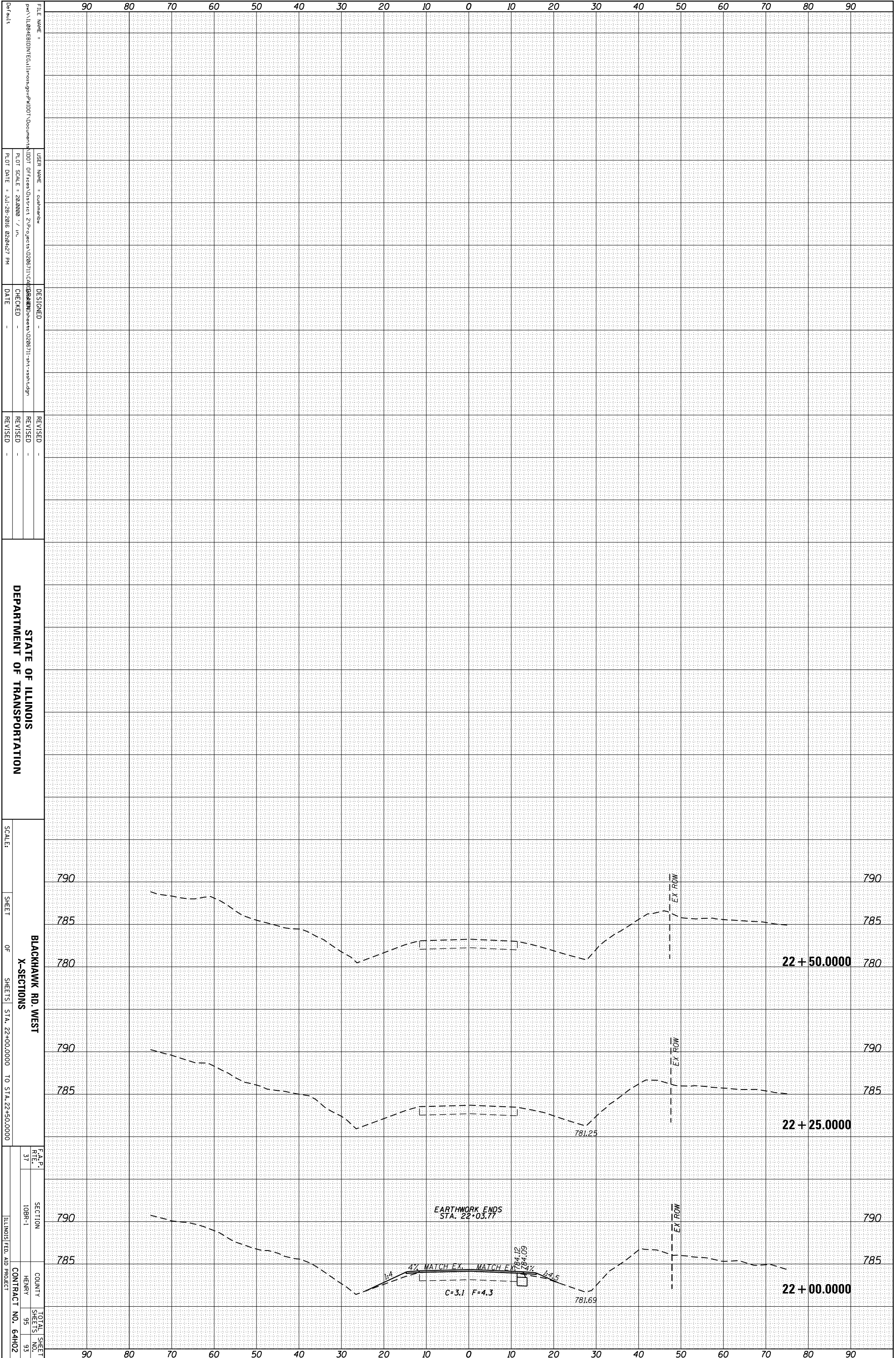
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BLACKHAWK RD. WEST  
X-SECTIONS

F.A.P. SECTION COUNTY TOTAL SHEET  
RTE. 108B-1 HENRY SHEETS NO.  
(US 34) ILLINOIS FED. AID PROJECT CONTRACT NO. 64H02

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 22+00.0000 TO STA. 22+50.0000

BLACKHAWK RD. WEST  
 X-SECTIONS

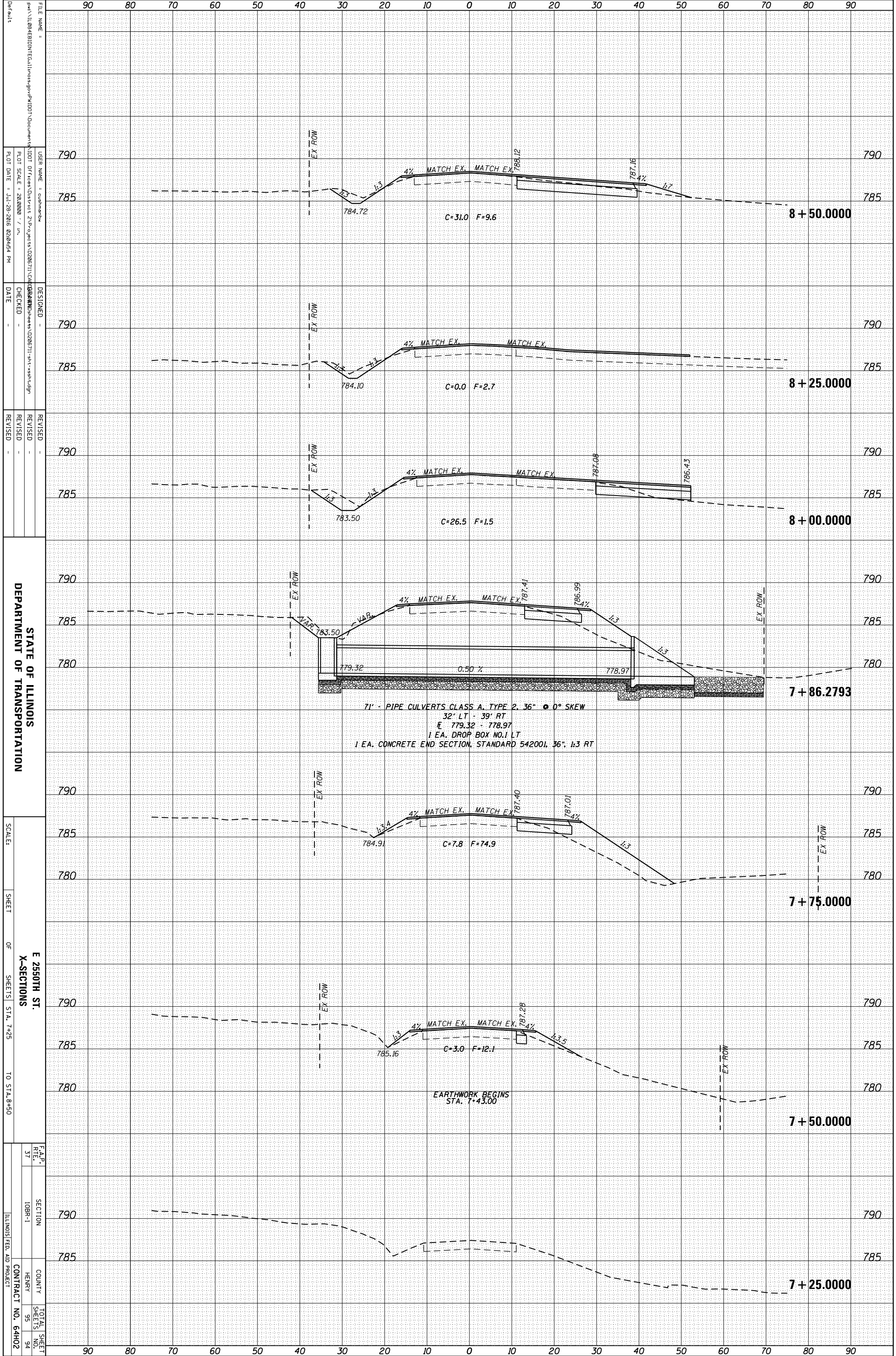
F.A.P. RITE 37 SECTION 10BB-1 COUNTY HENRY CONTRACT NO. 64H02

TOTAL SHEETS 95 SHEET NO. 93

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____	_____	_____
	TEMPLATE _____	_____	_____
	AREAS _____	_____	_____
	CHECKED _____	_____	_____

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____	_____	_____
	TEMPLATE _____	_____	_____
	AREAS _____	_____	_____
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 CHECKED - ...  
 DATE - ...

REVISOR - ...  
 REVISION - ...  
 REVISION - ...

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: ...  
 SHEET OF SHEETS STA. 7+25 TO STA. 8+50

E 2550TH ST.  
 X-SECTIONS

F.A.P. R.T.E. 37  
 SECTION 108B-1  
 COUNTY HENRY  
 CONTRACT NO. 64H02

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
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FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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 DATE -

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE:  
 SHEET OF SHEETS STA. 8+75 TO STA. 9+50  
 E 2550TH ST.  
 K-SECTIONS  
 F.A.P. R.T.E. 37  
 SECTION 108B-1  
 COUNTY HENRY  
 CONTRACT NO. 64H02  
 TOTAL SHEET NO. 95

