

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

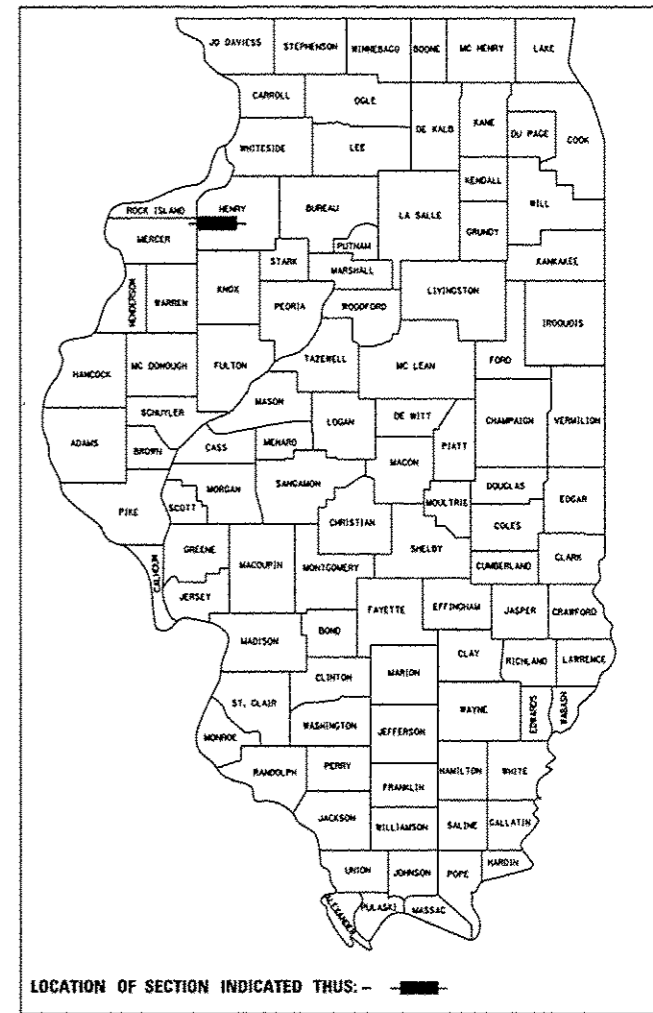
**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 223 (IL 81)
SECTION 101VBR
PROJECT : ACRS-0223(002)
TYPE of IMPROVEMENT
HENRY COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	1
		ILLINOIS	CONTRACT NO. 64F84	

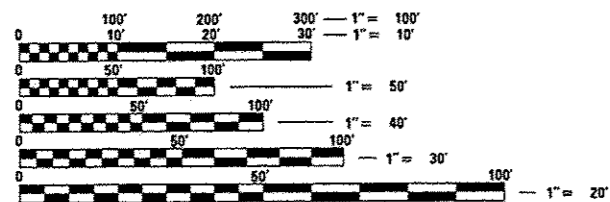
FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-92-023-10



C-92-179-12

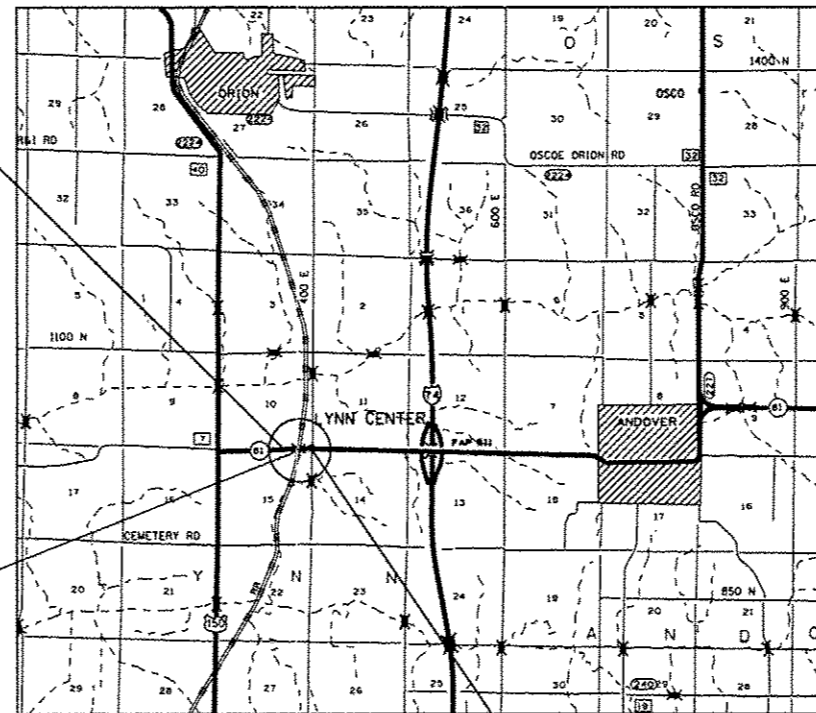
SECTION BEGINS STA. 41+60
IMPROVEMENT BEGINS STA. 41+48.35



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

EXISTING S.N. 037-0126
PROPOSED S.N. 037-0197
STA. 45+02.26
PROPOSED STRUCTURE
21" P.P.C DECK BEAMS
WITH 5" MIN.
WEARING SURFACE



SECTION ENDS STA. 48+32
IMPROVEMENT ENDS STA. 48+50.00

TOWNSHIPS (SECTIONS):
LYNN 10,15

PROJECT ENGINEER: MATT FARMER
PROJECT MANAGER: CHRIS CONDERMAN (815)-284-5995

GROSS LENGTH = 672.0 FT. = 0.13 MILE
NET LENGTH = 672.0 FT. = 0.13 MILE

CONTRACT NO. 64F84

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED Aug 6 2015
Paul A. Luster
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 2 2015
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 2 2015
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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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.

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.

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.

The granular material used to fill any holes shall meet the requirements of Article 1004.05 for backfill, shall be placed in lifts not exceeding 12 inches, and shall be compacted to the satisfaction of the Engineer.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

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 following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.0 @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 9.5FG*	IL 19.0	IL 9.5, /or 9.5FG	IL 19.0 FG
Friction Aggregate	C	N/A	N/A	C	N/A
20 Year ESAL	0.9	0.9	0.9	N/A	N/A
Quality Management Program to be Used	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
Sublot Tonnage	N/A	N/A	N/A	N/A	N/A

*On projects with less than 2000 tons Level Binder, Growth Curve will be used for Density and IL 9.5 may be used.

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.

On full depth pavement, shoulder widths of 6 ft. or less may be placed, at the Contractor's option, simultaneously with the adjacent traffic lane for both the binder and surface courses, provided the cross slope of both the pavement and shoulder can be satisfactorily obtained. The shoulder will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT SHOULDERS of the thickness specified on the plans.

The new number for this structure will be 037-1097.

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

The cost of making sewer connections to existing drainage structures shall be included in the various contract unit prices for STORM SEWER.

The cost of removing existing Storm Sewer during the installation of new storm sewers shall be included in the contract unit price for the STORM SEWER being installed.

Lateral distances from the centerline on all inlets are to the face of the inlet.

The new manhole lids on this project shall have the word "STORM", "SANITARY", or "WATER" on the lid. The word to be used is noted on the plans. It will be the Contractor's responsibility to determine the word to be used on other lids not noted on the plans. No additional compensation will be allowed for this work.

All proposed manholes on this project shall be cast-in-place or precast. This work will be paid for at the contract unit price Each for MANHOLE of the type and size specified.

The Contractor shall determine flowlines of existing sewer lines which are shown on the plans as estimated or unknown. This information is necessary before ordering inlets and manholes.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

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

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

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

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

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.

FILE NAME *	USER NAME * FASLERW	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE * 100,0000 / / in.	CHECKED -	REVISED -							
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										CONTRACT NO. 64F84
										ILLINOIS FED. AID PROJECT

GENERAL NOTES

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: 1 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 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. Trees will be planted in the I-74 westbound rest area at mile marker 28 at the direction of the Roadside Management Specialist.

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:

Ameren (309) 345-5173	MidAmerican Energy Company (309) 793-3704
Frontier (309) 734-7991	Windstream (630) 925-4751
Lynn Center Water (309) 781-5585	

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

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

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

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

It shall be the Contractor's responsibility to contact the municipality to determine approved methods of utility structure adjustment. Utility structures may include, but are not limited to, manholes, water valves, handholes, etc. All materials and work necessary to complete adjustments per municipality requirements shall be considered included in the cost of the associated adjustment pay item.

Culvert, bridge and storm sewer 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.

Call Stuart Etheridge from the Lynn Center Water at cell 309/781-5585 before the Contractor digs.

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.

All frames and grates of drainage structures to be removed or filled shall be carefully salvaged and shall remain the property of contractor.

Any subcontractor chosen to do underground storage tank removal and/or special or hazardous waste management must be on the State Fire Marshall's currently approved list of qualified contractors to do such work. Prior to any involvement with special or hazardous waste, the prime contractor shall notify the District Environment Unit Hazardous Waste Coordinator who this designated sub-contractor is and furnish five projects this sub-contractor has successfully concluded, including the IEPA incident number. The District will then confirm the successful conclusion of these projects by reviewing the IEPA data base. Only after approval from the District Environment Unit will the sub-contractor be authorized to proceed with any involvement with special/hazardous waste.

Cohesive soil used to backfill Underground Storage Tanks, outside the limits of the roadway, shall be placed at a moisture content of no more than 110% of optimum, and compacted to 95% of the standard dry density.

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.

FILE NAME *	USER NAME * FASLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL 0004 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	44	44	0
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	123	123	0
20200100	EARTH EXCAVATION	CU YD	395	395	0
20400800	FURNISHED EXCAVATION	CU YD	35	35	0
20800150	TRENCH BACKFILL	CU YD	201	201	0
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,865	4,865	0
* 25200100	SODDING	SQ YD	4,865	4,865	0
* 25200200	SUPPLEMENTAL WATERING	UNIT	44	44	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	397	397	0
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60	0
28000400	PERIMETER EROSION BARRIER	FOOT	205	205	0
28000500	INLET AND PIPE PROTECTION	EACH	2	2	0
28000510	INLET FILTERS	EACH	7	7	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	16	16	0
28200200	FILTER FABRIC	SQ YD	16	16	0
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	647	647	0

*** Specialty Items**

FILE NAME *	USER NAME * FASLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 81 (LYNN CENTER)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL 0004 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
40600525	LEVELING BINDER (HAND METHOD), N50	TON	3	3	0
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	272	272	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,956	1,956	0
40600990	TEMPORARY RAMP	SQ YD	316	316	0
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	644	644	0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	312	312	0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5,717	5,717	0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	450	450	0
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	300	0	300
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	177	177	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	790	790	0
42400800	DETECTABLE WARNINGS	SQ FT	10	10	0
44000100	PAVEMENT REMOVAL	SQ YD	15	15	0
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1,790	1,790	0

* Specialty Items

SUMMARY OF QUANTITIES

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44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	158	158	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	530	530	0
44000600	SIDEWALK REMOVAL	SQ FT	807	807	0
44201377	CLASS C PATCHES, TYPE II, 12 INCH	SQ YD	60	60	0
44201381	CLASS C PATCHES, TYPE III, 12 INCH	SQ YD	22	22	0
48203020	HOT-MIX ASPHALT SHOULDERS 5 3/4"	SQ YD	368	368	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	0
50104650	SLOPE WALL REMOVAL	SQ YD	868	0	868
50200100	STRUCTURE EXCAVATION	CU YD	1,796	0	1,796
50300225	CONCRETE STRUCTURES	CU YD	1,181.0	0	1,181.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	165.3	0	165.3
50300260	BRIDGE DECK GROOVING	SQ YD	563	0	563
50300300	PROTECTIVE COAT	SQ YD	672	0	672

* Specialty Items

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL 0004 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	2,794	0	2,794
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	677,720	0	677,720
51500100	NAME PLATES	EACH	1	0	1
51603000	DRILLED SHAFT IN SOIL	CU YD	867.5	0	867.5
54213450	END SECTIONS 15"	EACH	2	2	0
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	0
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1	1	0
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	42	42	0
550A0040	STORM SEWERS, CLASS A, TYPE 1 10"	FOOT	8	8	0
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	47	47	0
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	85	85	0
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	167	167	0
550A0980	STORM SEWERS, CLASS A, TYPE 4 18"	FOOT	32	32	0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	459	0	459

* Specialty Items

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL <i>0004</i> 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
60107600	PIPE UNDERDRAINS 4"	FOOT	293	293	0
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	0
60500060	REMOVING INLETS	EACH	5	5	0
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	551	551	0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5	137.5	0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	1	1	0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) FLARED	EACH	2	2	0
63200310	GUARDRAIL REMOVAL	FOOT	182	182	0
63500105	DELINEATORS	EACH	4	4	0
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1	0
* 66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	1	1	0
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	205	205	0

* Specialty Items

FILE NAME *	USER NAME * FASLEAMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 81 (LYNN CENTER)	F.A. RTE. 223	SECTION IOLVBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 9
Default	PLT SCALE * 1/8"=1'-0"	CHECKED -	REVISED -		SCALE: _____					
	PLT DATE * Aug-23-2015 11:23:39 PM	DATE -	REVISED -		SHEET _____ OF _____ SHEETS					CONTRACT NO. 64FB4
ILLINOIS FED. AID PROJECT										

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL <i>0004</i> 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	0
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	0
67100100	MOBILIZATION	L SUM	1	1	0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	9	9	0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	708	708	0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	118	118	0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,599	1,599	0
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	38	38	0
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	23	23	0
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	8	8	0

* Specialty Items

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL 0004 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN.037-0197 HENRY
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	0
* A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	5	5	0
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	5	5	0
X0324636	WATER VALVE BOXES TO BE ABANDONED	EACH	1	1	0
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	1,539	0	1,539
X0696100	PARKING BLOCKS	EACH	2	2	0
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	310.4	0	310.4
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	199	199	0
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	561	0	561
X6023840	REMOVE AND RELOCATE INLETS	EACH	1	1	0
X6024210	DOUBLE INLET, SPECIAL	EACH	1	1	0
X6024240	INLETS, SPECIAL	EACH	7	7	0
X6024244	INLETS, SPECIAL, NO. 2	EACH	1	1	0
X6024250	INLETS, SPECIAL, NO. 5	EACH	1	1	0

* Specialty Items

FILE NAME *	USER NAME * FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 81 (LYNN CENTER)	F.A. RTE. 223	SECTION 101VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 11
PLOT SCALE * 1/8" = 1' / 1"				SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64F84 [ILLINOIS] FED. AID PROJECT				

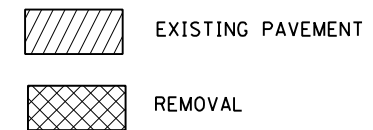
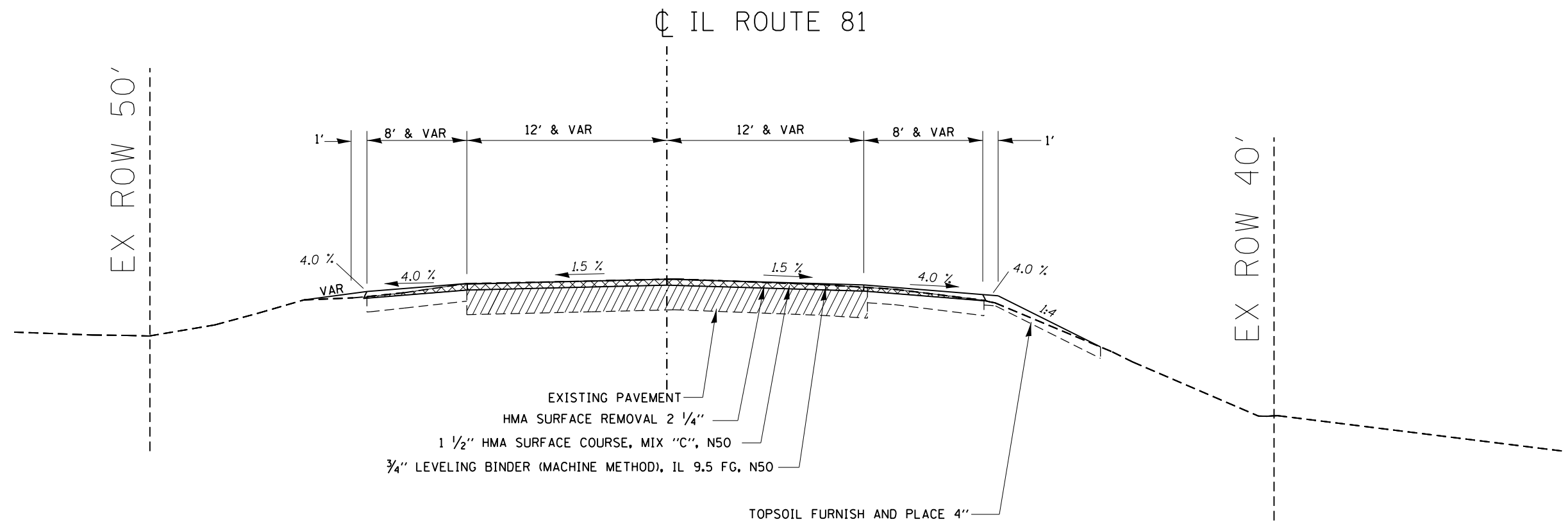
SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL <i>0004</i> 80 % FEDERAL 20 % STATE HENRY	RURAL 0011 80 % FEDERAL 20 % STATE SN. 037-0197 HENRY
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1	0
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	48	0	48
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1	0
Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
Z0023800	FILLING EXISTING SEPTIC TANK	EACH	1	1	0
Z0025505	PROPERTY MARKERS	EACH	6	6	0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	0
* Z0049801	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1	1	0
* Z0049901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1	1	0
* Z0049902	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2	L SUM	1	1	0
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	140	140	0
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	65	65	0
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,363	0	1,363

* Specialty Items

TYPICAL SECTION

STA 41+60 - 41+87

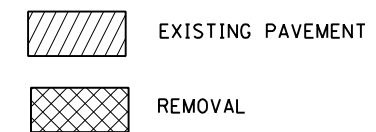
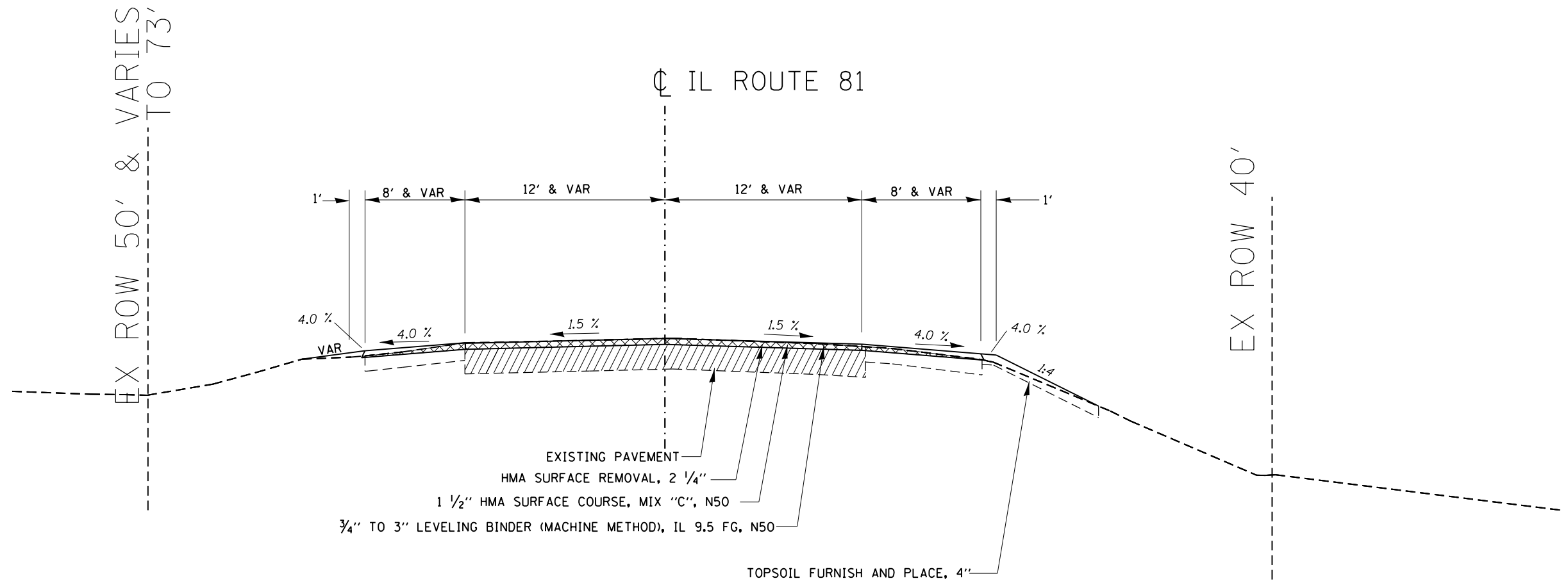


HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	223	101 VBR	HENRY	139 13
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TYPICAL SECTION

STA 41+87 - 42+81

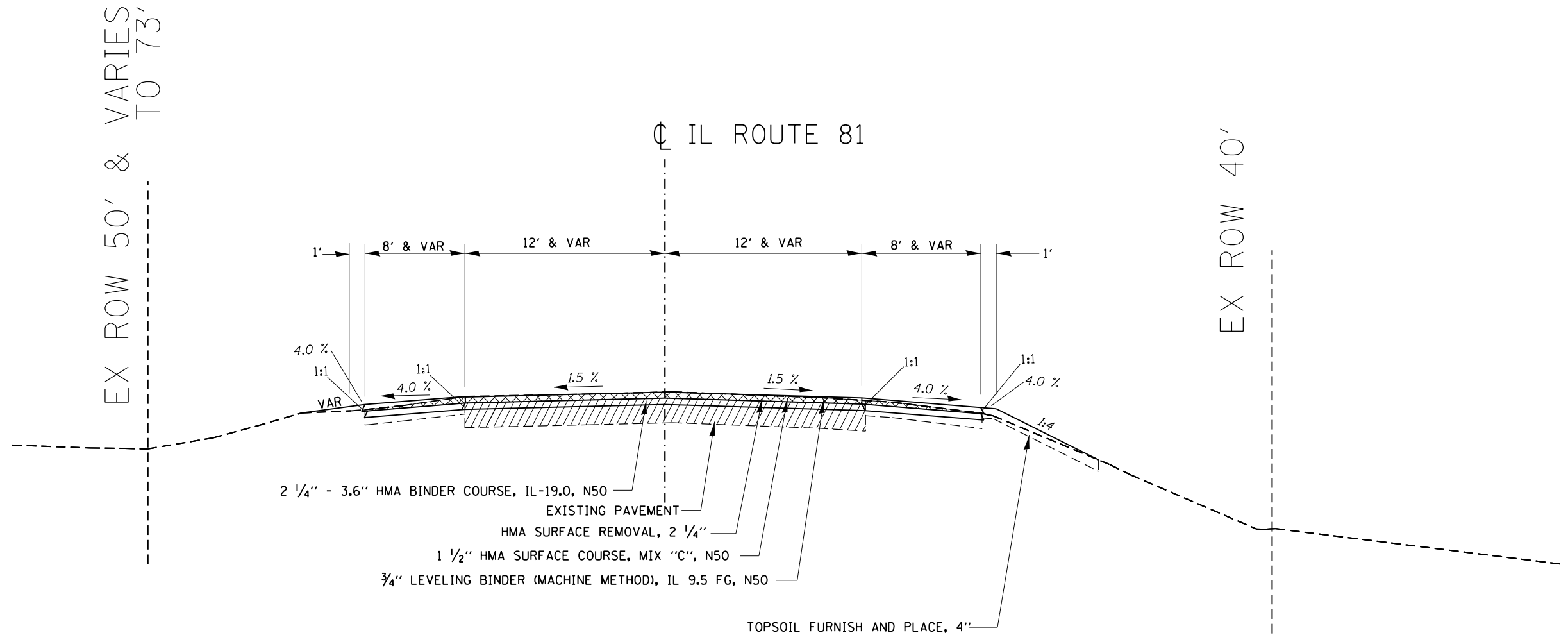


HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN BY					CHECKED BY				223	101 VBR	HENRY	139	14
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ILLINOIS FED. AID PROJECT													

TYPICAL SECTION

STA 42+81 - 43+17.5

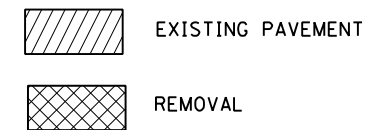
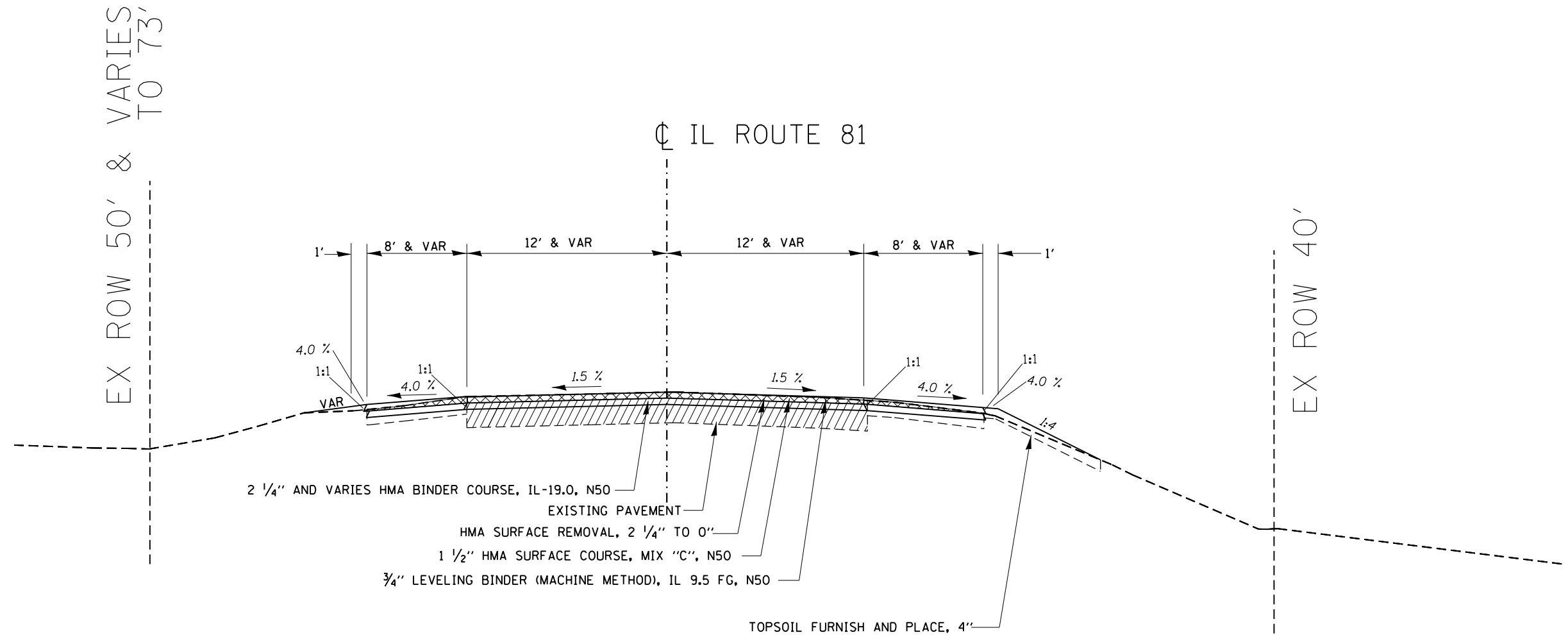


HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	223	101 VBR	HENRY	139 15
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TYPICAL SECTION

STA 43+17.5 - 43+40



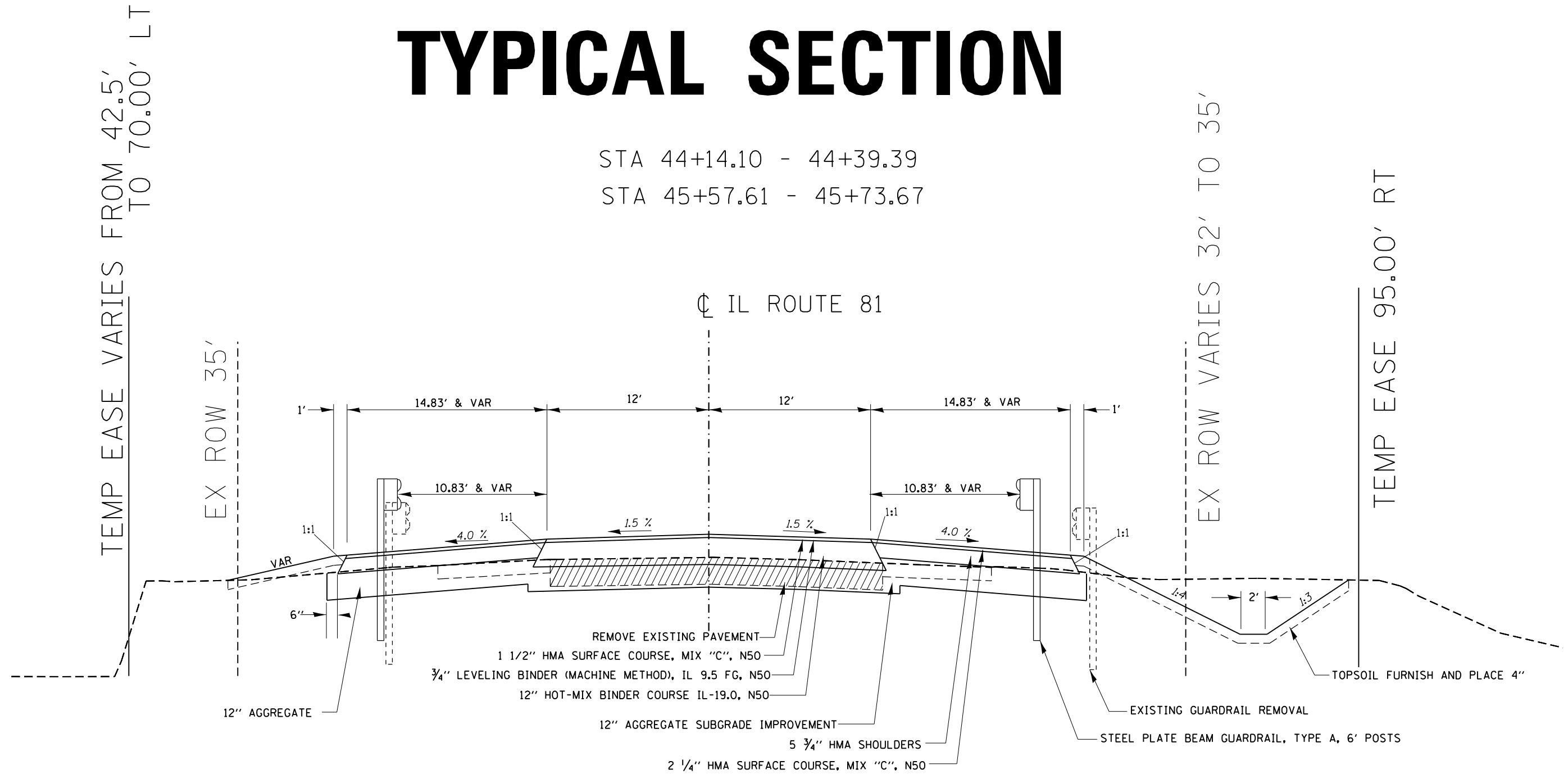
HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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					ILLINOIS FED. AID PROJECT							

TYPICAL SECTION

STA 44+14.10 - 44+39.39

STA 45+57.61 - 45+73.67



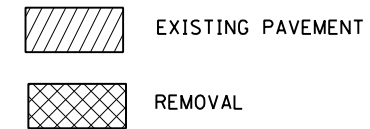
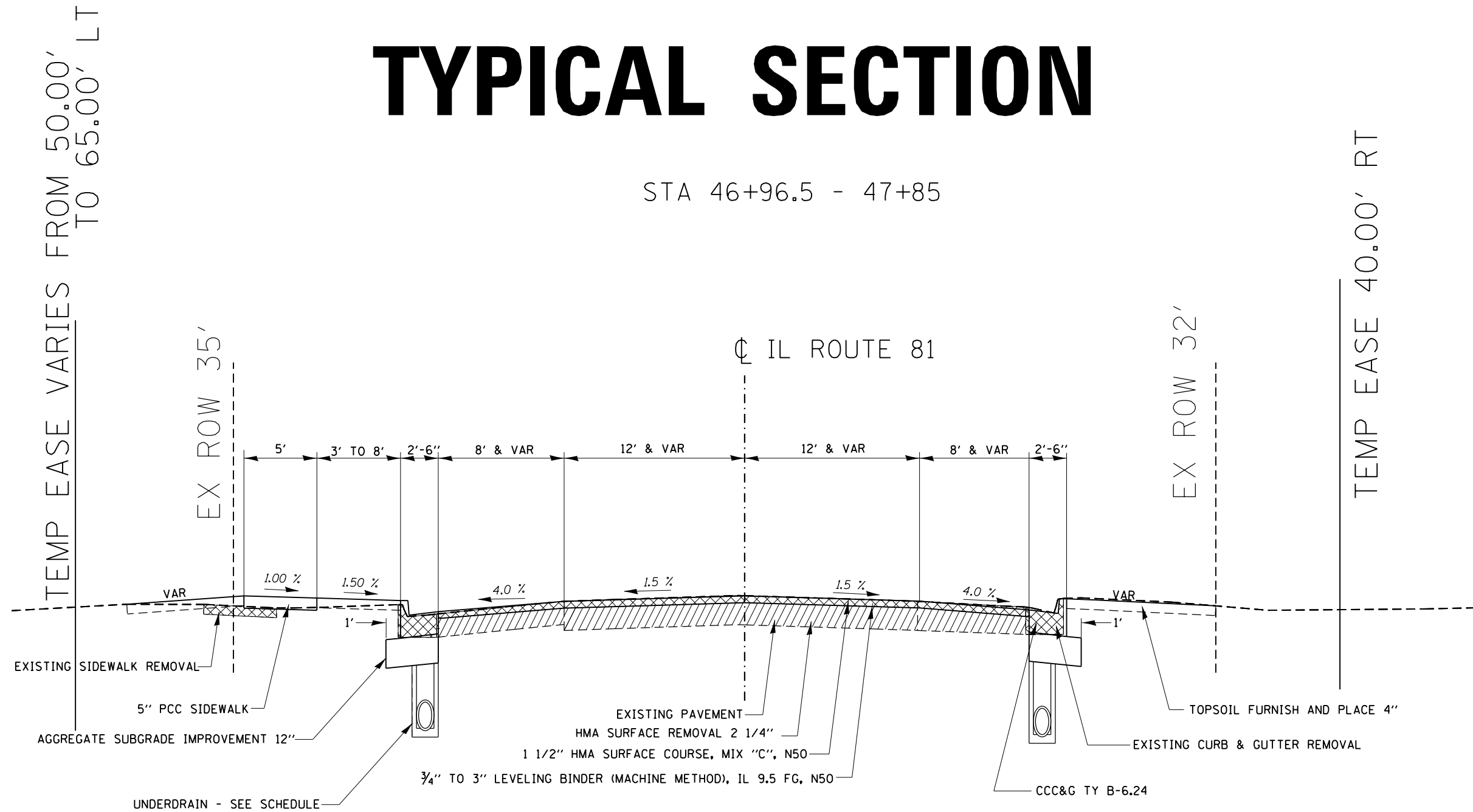
CONNECTOR PAVEMENT - 44+14.10 TO 44+39.39
 APPROACH PAVEMENT - 44+39.39 TO 44+69.39
 BRIDGE PAVEMENT - 44+68.02 TO 45+28.99
 APPROACH PAVEMENT - 45+27.61 TO 45+57.61
 CONNECTOR PAVEMENT - 45+57.61 TO 45+73.67

HMA RATE OF APPLICATION = 112 LB/SO YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -		223	101 VBR	HENRY	139	18				
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TYPICAL SECTION

STA 46+96.5 - 47+85

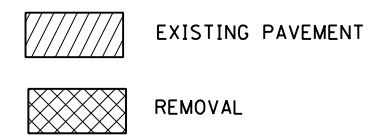
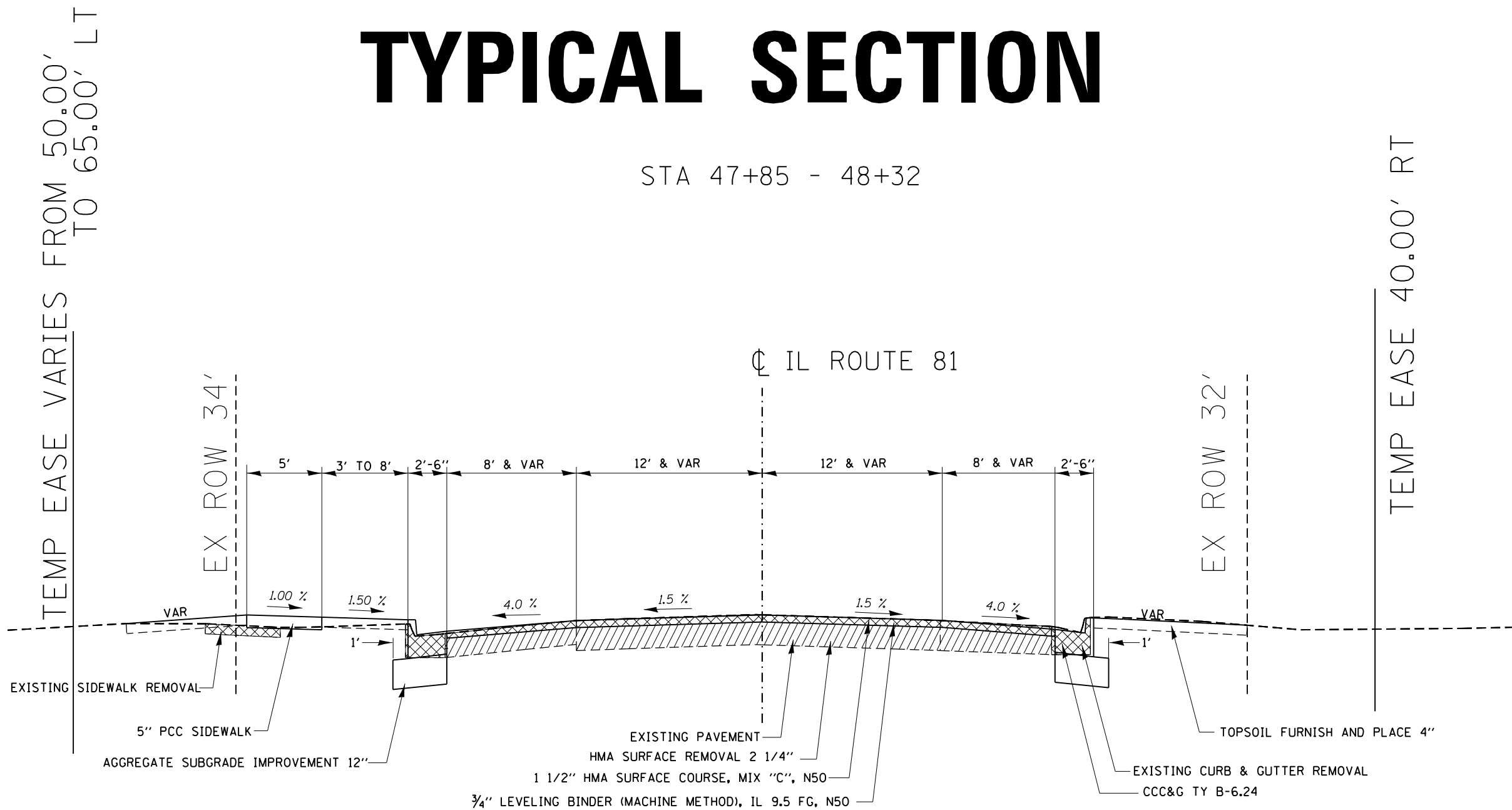


HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	223	101 VBR	HENRY	139	20
		DATE -	REVISED -		CONTRACT NO. 64F84										
					ILLINOIS FED. AID PROJECT										

TYPICAL SECTION

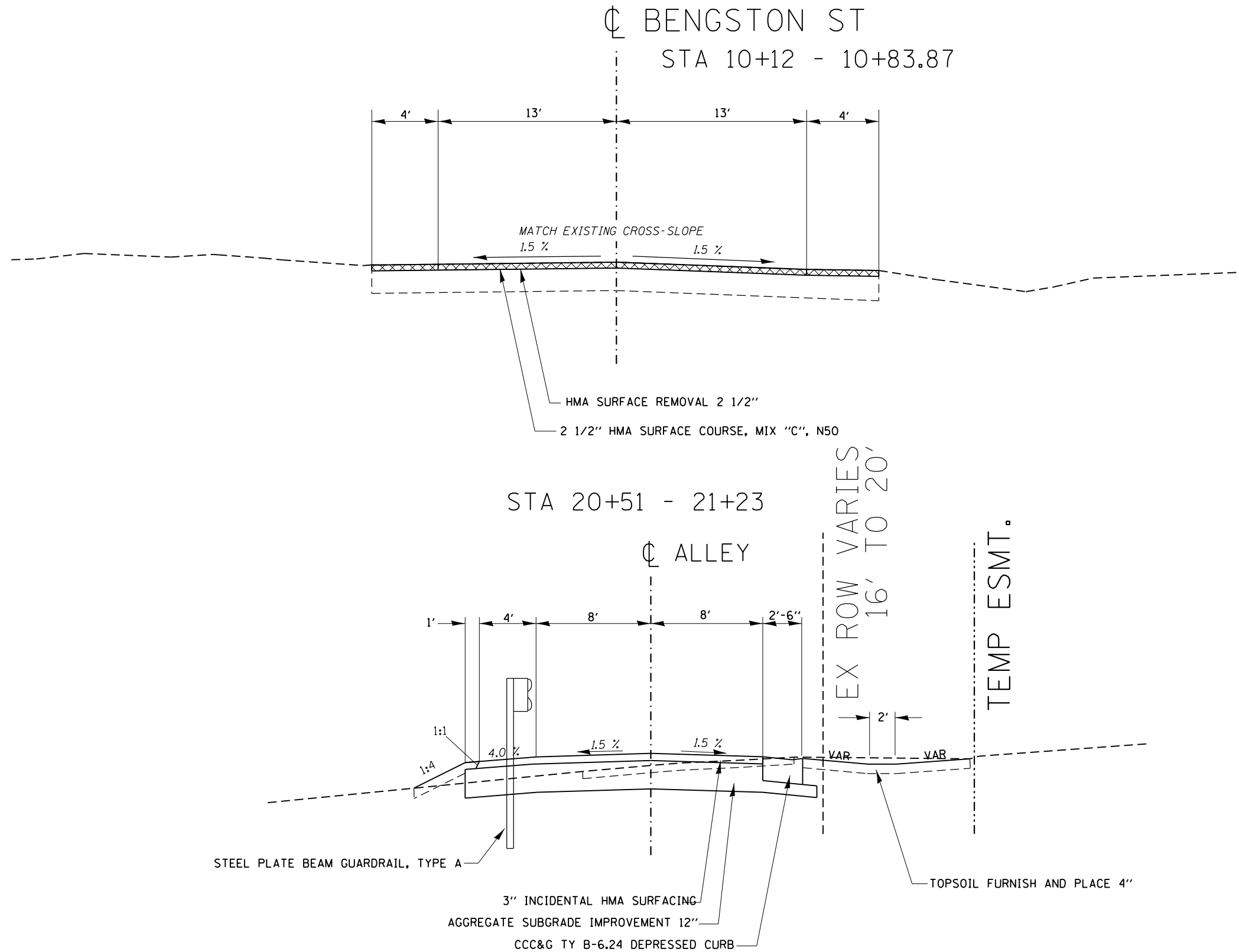
STA 47+85 - 48+32



HMA RATE OF APPLICATION = 112 LB/SO YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	223	101 VBR	HENRY	139	21
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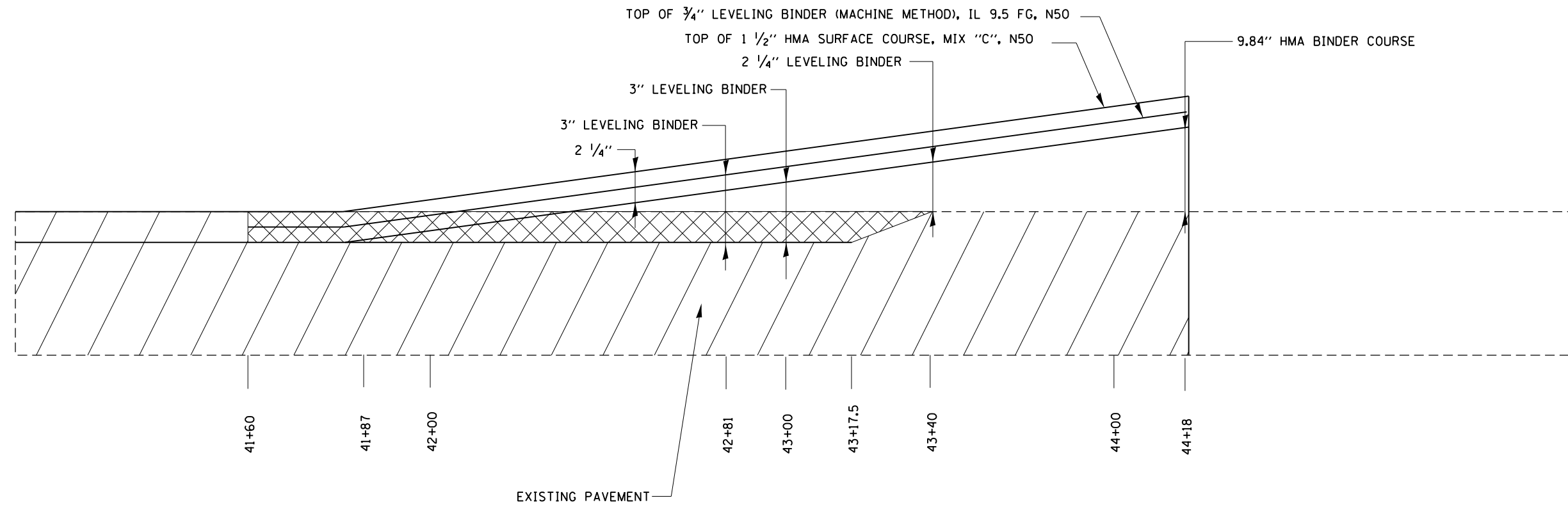
TYPICAL SECTION



HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TYPICAL SECTION

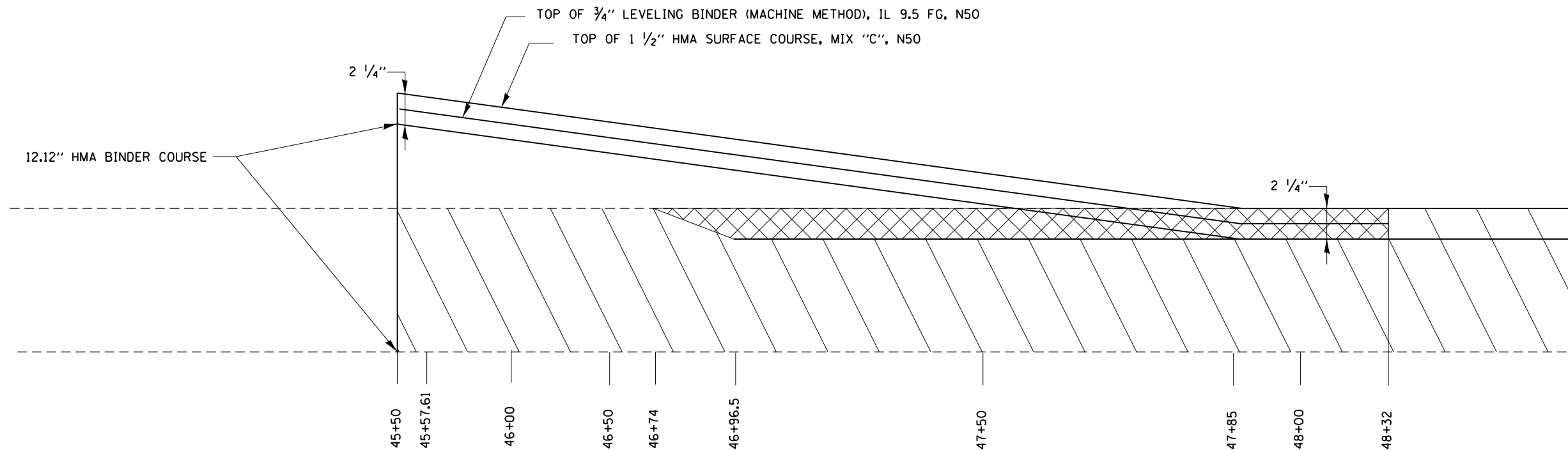


- HMA SURFACE REMOVAL, 2 1/4" STA. 41+60 TO 43+17.5
- 43+17.5 TO 43+40 2 1/4" AND VARIES PAID FOR AS 2 1/4"
- 3/4" LEVELING BINDER (MM), IL 9.5 FG, N50 STA 41+60 TO 41+78 STA 42+81 TO 44+14
- 3/4" TO 3" LEVELING BINDER (MM), IL 9.5 FG, N50 STA 41+78 TO 42+81

HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = Aug-03-2015 11:13:11 AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.			

TYPICAL SECTION



- HMA SURFACE REMOVAL, 2 1/4",
STA 46+74 TO 46+96.5 2 1/4" AND VARIES PAID FOR AS 2 1/4" REMOVAL
STA 46+95.6 TO 48+32
- HMA SURFACE COURSE, MIX "C", N50
STA 45+57.61 TO 48+32
- 3/4" LEVELING BINDER (MM), IL 9.5 FG, N50
STA 45+57.61 TO 46+96.5
STA 47+85 TO 48+32
- 3/4" TO 3" LEVELING BINDER (MM), IL 9.5 FG, N50
STA 46+96.5 TO 47+85

HMA RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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					ILLINOIS FED. AID PROJECT							

66900105 UNDERGROUND STORAGE TANK REMOVAL

EACH	LOCATION	COMMENTS
1	46 + 95	25' LT SIDE
1	TOTAL	

66900200 NON-SPECIAL WASTE DISPOSAL

CUYD	LOCATION
65	Site 2872-4
150	Site 2872-8
65	TOTAL

66900450 SPECIAL WASTE PLANS AND REPORTS

L SUM
1
1
TOTAL

66900530 SOIL DISPOSAL ANALYSIS

EACH
2
2
TOTAL

70106800 CHANGEABLE MESSAGE SIGN

MONTH	LOCATION	COMMENTS
9	Note location to be determined by Resident on N.B. 74 before IL 17 Exit 32	
9	TOTAL	

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	COMMENTS
6	43 + 15 - 44 + 63	LT SIDE
6	43 + 15 - 44 + 51	RT SIDE
3	45 + 34 - 45 + 88	RT SIDE
8	45 + 46 - 21 + 1	LT SIDE
23	TOTAL	

78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION	COMMENTS
4	43 + 15 - 44 + 63	LT SIDE
4	43 + 15 - 44 + 51	RT SIDE
8	TOTAL	

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION	COMMENTS
1	43 + 15	LT SIDE
1	43 + 15	RT SIDE
1	21 + 1	LT SIDE
3	TOTAL	

A2000114 TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	COMMENTS
5	I-74 westbound rest area	Direction by Roadside Manag. Spec.
5	TOTAL	

A2007814 TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4" CALIPER,

EACH	LOCATION	COMMENTS
5	I-74 westbound rest area	Direction by Roadside Manag. Spec.
5	TOTAL	

X0324636 WATER VALVE BOXES TO BE ABANDONED

EACH	LOCATION	COMMENTS
1	43 + 50	House 203
1	TOTAL	

X0696100 PARKING BLOCKS

EACH	LOCATION	OFFSETS	COMMENTS
2	46 + 85	85.0' LT	On Driveway
2	TOTAL		

X5509900 ABANDON AND FILL EXISTING STORM SEWER

FOOT	LOCATION	COMMENTS
35	45 + 87 - 46 + 14	LT SIDE 24" Storm Sewer
22	45 + 88 - 45 + 93	RT SIDE 12" Storm Sewer
24	46 + 14 - 46 + 31	LT SIDE 12" Storm Sewer
64	46 + 14 - 46 + 76	LT SIDE 24" Storm Sewer
54	46 + 46 - 46 + 75	LT SIDE 12" Storm Sewer
199	TOTAL	

X5860110 GRANULAR BACKFILL FOR STRUCTURES

CUYD	LOCATION	COMMENTS
140	43 + 50	WEST ABUT.
140	45 + 72	EAST ABUT.
280	TOTAL	

X6023840 REMOVE AND RELOCATE INLETS

EACH	LOCATION	OFFSETS	COMMENTS
1	47 + 19	31' RT	STRUCTURE 11
1	TOTAL		

X6024240 INLETS, SPECIAL

EACH	LOCATION	OFFSETS	COMMENTS
1	45 + 86	20.6' RT	STRUCTURE 2A
1	46 + 12	20' RT	STRUCTURE 3
1	46 + 80	19.5' RT	STRUCTURE 4
1	47 + 24	19.5' RT	STRUCTURE 5
1	47 + 24	21' LT	STRUCTURE 6
1	47 + 68	19.5' RT	STRUCTURE 8
1	46 + 80	21' LT	STRUCTURE 9
7	TOTAL		

X6024244 INLETS, SPECIAL, NO. 2

EACH	LOCATION	OFFSETS	COMMENTS
1	21 + 23	8.8' RT	STRUCTURE 11
1	TOTAL		

X6024250 INLETS, SPECIAL, NO. 5

EACH	LOCATION	OFFSETS	COMMENTS
1	47 + 68	24.8' LT	STRUCTURE 7
1	TOTAL		

Z0023800 FILLING EXISTING SEPTIC TANK

EACH	LOCATION	COMMENTS
1	43 + 50	House 203
1	TOTAL	

Z0025505 PROPERTY MARKERS

EACH	LOCATION	COMMENTS
6	Varies	Various location determined by R.E.
6	TOTAL	

Z0049801 REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1

EACH	LOCATION	COMMENTS
1	43 + 50	House 203
1	TOTAL	

Z0049901 REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1

EACH	LOCATION	COMMENTS
1	43 + 50	House 203
1	TOTAL	

Z0049902 REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2

EACH	LOCATION	COMMENTS
1	43 + 50	Garage At House 203
1	TOTAL	

Z0056608 STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH

FOOT	LOCATION	COMMENTS
140	21 + 23 - 46 + 12	Structure 11 to structure 3
140	TOTAL	

Z0056612 STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH

FOOT	LOCATION	COMMENTS
65	46 + 80 - 46 + 12	RT SIDE Structure 4 to Structure 3.
65	TOTAL	

Z0007601 BUILDING REMOVAL NO. 1

EACH	LOCATION	COMMENTS
1	43 + 50	House 203
1	TOTAL	

Z0007602 BUILDING REMOVAL NO. 2

EACH	LOCATION	COMMENTS
1	43 + 50	Garage At House 203
1	TOTAL	

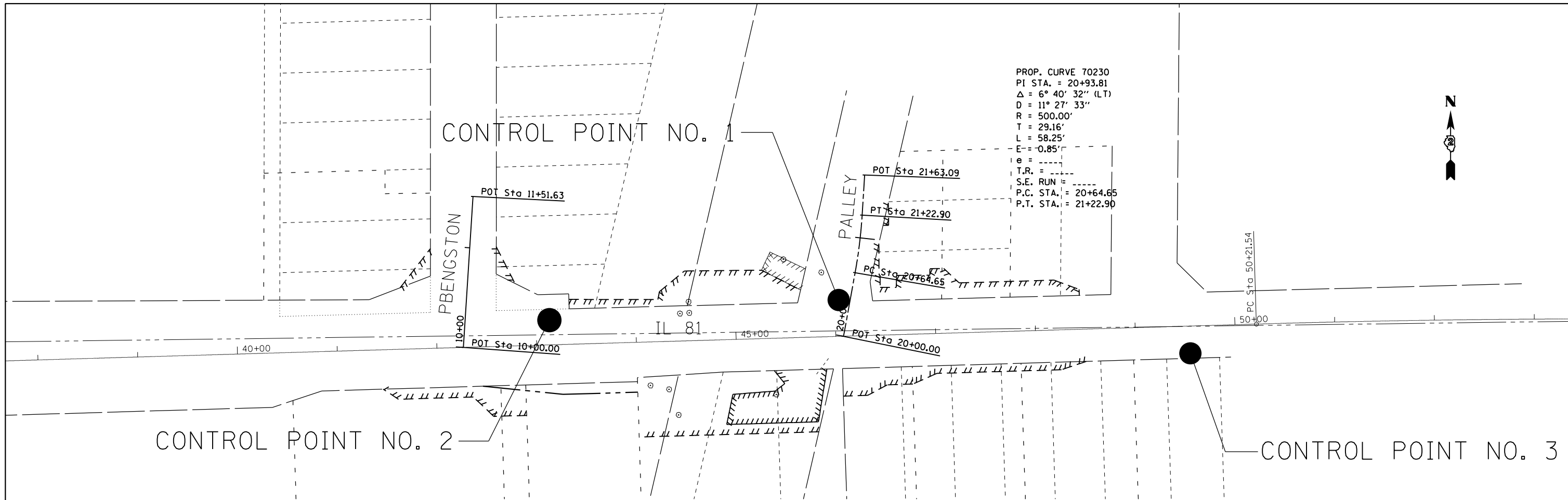
HOT-MIX ASPHALT SCHEDULE

Table with columns: LOCATION, STATION TO STATION, REMARKS, SURFACE (LENGTH, WIDTH, AREA), 44000158 HMA SURFACE REMOVAL, 40600275 BIT. MAT. PRIME COAT, 40603310 HMA SURF. MIX "C" N50, 40603310 HMA SURF. MIX "C" N50, 40603310 HMA SURF. MIX "C" N50, 40603080 HMA Binder COURSE IL-19.0 N50 BNSF Bridge (MM), 40600625 LEVEL BINDER (MM) N50, 40600625 LEVEL BINDER (MM) N50, 40800050 Incidental HMA SURF, 48203020 Shoulders. Rows include stationing (e.g., 41+60.0 TO 41+87.0) and descriptions (e.g., MAINLINE, Mainline Shoulder, GUARDRAIL AREA).

EARTHWORK SCHEDULE												
LOCATION STATION TO STATION						REMARKS		20200100	50200100	EARTH EXCAVATION 25% Shrinkage factor CU YD	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
								EARTH EXCAVATION	STRUCTURE EXCAVATION			
IL 81						Henry County						
41	+	50.00	TO	44	+	50.00	RT & LT Side	245		185	290	-105
44	+	14.10	TO	44	+	39.39	UNDER CONNECTOR PAVEMENT	0		0	740	-740
45	+	50.00	TO	48	+	50.00	RT & LT Side	100		75	245	-170
45	+	57.61	TO	45	+	73.67	UNDER CONNECTOR PAVEMENT	0		0	400	-400
20	+	25.00	TO	22	+	25.00	RT & LT Side	51		40	10	30
44	+	39.39	TO	45	+	57.61	STRUCTURE EXCAVATION	0	1,796	1,350		1,350
SUB TOTAL						HENRY COUNTY						
TOTAL						HENRY COUNTY						
								396	1,796	1,650	1,685	-35
								395	1,796	1,650	1,685	-35

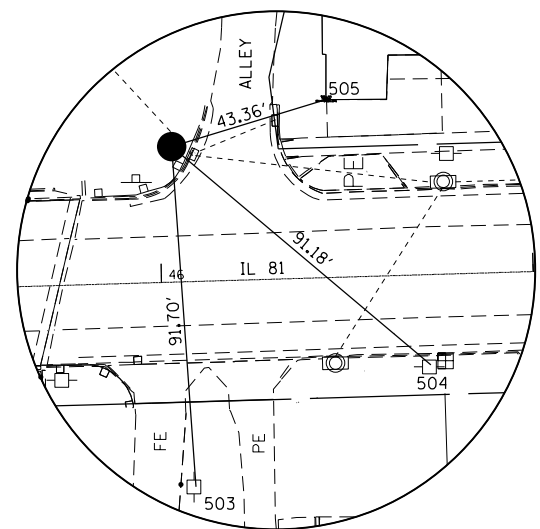
SODDING SCHEDULE												
LOCATION STATION TO STATION						REMARKS			25200100		25200200	
									SODDING			SUPPLEMENTAL WATERING
						LENGTH						
						FT	RT	LT	SQ YD		UNIT	
IL 81						Henry County						
41	+	60.00	TO	10	+	84.00	Behind Shoulder & Driveway	143.20		VAR	47.7	0.4
10	+	84.00	TO	42	+	84.00	Behind Shoulder	76.43		VAR	15.9	0.1
41	+	60.00	TO	42	+	62.78	Between shoulder & house	102.78	VAR		384.6	3.46
42	+	87.26	TO	43	+	99.42	Between shoulder & house	112.16	VAR		441.5	3.97
42	+	47.33	TO	44	+	22.75	Between shoulder & misc. concrete	175.42		VAR	475.1	4.28
44	+	0.94	TO	44	+	84.22	Between shoulder & house	83.28	VAR		604.1	5.44
44	+	22.75	TO	44	+	92.76	Between shoulder & house	70.01		VAR	369.7	3.33
44	+	79.54	TO	45	+	91.83	Between shoulder & house	112.29	VAR		772.1	6.95
45	+	10.88	TO	46	+	22.04	Between shoulder & house	111.16		VAR	699.8	6.30
20	+	50.37	TO	21	+	36.00	Between curb & house	85.63	VAR		98.5	0.89
46	+	28.28	TO	47	+	13.13	Behind Sidewalk	84.85		VAR	173.7	1.56
46	+	35.18	TO	46	+	72.90	Infront of sidewalk	37.72		VAR	11.8	0.11
47	+	27.81	TO	48	+	44.46	Infront of sidewalk	108.68		VAR	61.4	0.55
47	+	22.60	TO	47	+	43.84	Behind Sidewalk	21.24		VAR	44.8	0.40
47	+	47.69	TO	48	+	39.09	Behind Sidewalk	91.40		VAR	155.5	1.40
46	+	3.08	TO	46	+	20.68	behind curb & gutter	17.60	VAR		46.9	0.42
46	+	28.99	TO	47	+	5.84	behind curb & gutter	76.85	VAR		217.8	1.96
47	+	14.42	TO	48	+	42.75	behind curb & gutter	128.33	VAR		244.1	2.20
SUB TOTAL						HENRY COUNTY						
											4864.9	43.21

STRIPING SCHEDULE															
LOCATION						78001110		78001180	70300100			70301000			
STATION TO STATION						REMARKS		LENGTH FT	PAINT PAVEMENT MARKING - LINE 4"		PAINT PAVEMENT MARKING - LINE 24"			SHORT TERM PAVEMENT MARKING LINE - 4"	WORK ZONE PAVEMENT MARKING REMOVAL
									EDGE LINES		STOP BARS	Yellow	White		
								White	Yellow	White		Stop Bars	DIAGONALS		
								FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	
MAINLINE						HENRY COUNTY									
41	+	60.00	TO	48	+	74.00	EDGE LINE	714	714				64	11	
41	+	60.00	TO	48	+	74.00	CENTER LINE SKIP DASHES	714		180		360		60	
41	+	60.00	TO	10	+	84.00	EDGE LINE	109	109						
10	+	84.00	TO	43	+	1.00	EDGE LINE	102	102						
43	+	1.00	TO	45	+	73.00	EDGE LINE	272	272				32	5	
46	+	52.00	TO	48	+	74.00	EDGE LINE	222	222				24	4	
10		35.00					STOP BAR			20		120		20	
20	+	28.00					STOP BAR			18		108		18	
TOTAL						HENRY COUNTY									
								1,419	180	38	360	228	120	118	

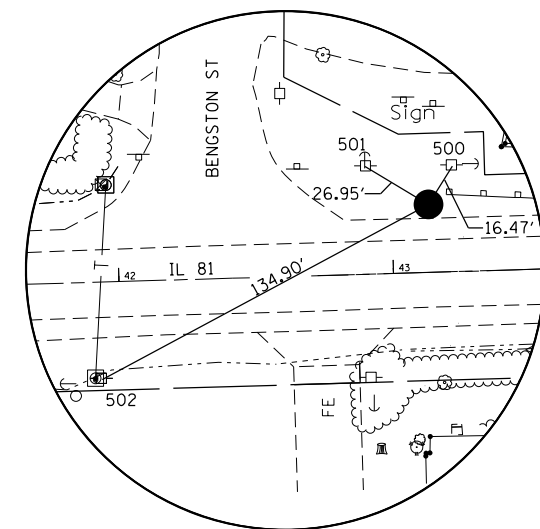


CONTROL POINT NO. 2

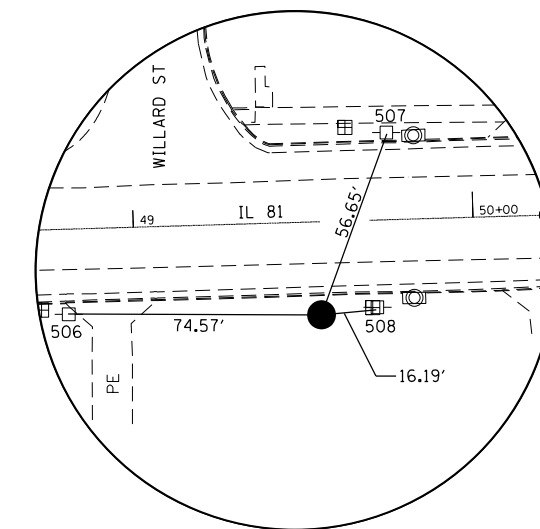
CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 1



HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL IL 81				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	223	101 VBR	HENRY	139 32
		DATE -	REVISED -						CONTRACT NO. 64F84					
									ILLINOIS FED. AID PROJECT					

IL 81

Chain IL81 contains:
A11309240 CUR 260 CUR 210 CUR 220 CUR 270 CUR 230 CUR 240 CUR 250 CUR 200 11

Beginning chain IL81 description
=====

Point A11309240 N 1,685,935.97 E 2,238,740.22 Sta 0+33.86

Course from A11309240 to PC 260 90° 17' 50.99" Dist 2,367.68'

Curve Data

Curve 260
P.I. Station 28+09.27 N 1,685,921.56 E 2,241,515.59
Delta = 1° 59' 04.51" (LT)
Degree = 0° 14' 36.23"
Tangent = 407.73'
Length = 815.37'
Radius = 23,540.06'
External = 3.53'
Long Chord = 815.33'
Mid. Ord. = 3.53'
P.C. Station 24+01.54 N 1,685,923.68 E 2,241,107.87
P.T. Station 32+16.91 N 1,685,933.56 E 2,241,923.14
C.C. N 1,709,463.42 E 2,241,230.10

Course from PT 260 to PC 210 88° 18' 46.48" Dist 1,804.62'

Curve Data

Curve 210
P.I. Station 53+71.55 N 1,685,997.00 E 2,244,076.84
Delta = 3° 21' 15.39" (RT)
Degree = 0° 28' 45.49"
Tangent = 350.01'
Length = 699.82'
Radius = 11,953.97'
External = 5.12'
Long Chord = 699.72'
Mid. Ord. = 5.12'
P.C. Station 50+21.54 N 1,685,986.69 E 2,243,726.98
P.T. Station 57+21.36 N 1,685,986.81 E 2,244,426.71
C.C. N 1,674,037.90 E 2,244,078.92

Course from PT 210 to PC 220 91° 40' 01.87" Dist 2,987.05'

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
IL81	260	260	261	262	263
IL81	210	210	211	212	213

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
PALLEY	70230	70230	70231	70232	70233

PALLEY

Chain PALLEY contains:
70210 CUR 70230 70002

Beginning chain PALLEY description
=====

Point 70210 N 1,685,974.51 E 2,243,313.26 Sta 20+00.00

Course from 70210 to PC 70230 10° 18' 46.48" Dist 64.65'

Curve Data

Curve 70230
P.I. Station 20+93.81 N 1,686,066.80 E 2,243,330.05
Delta = 6° 40' 31.74" (LT)
Degree = 11° 27' 32.96"
Tangent = 29.16'
Length = 58.25'
Radius = 500.00'
External = 0.85'
Long Chord = 58.22'
Mid. Ord. = 0.85'
P.C. Station 20+64.65 N 1,686,038.11 E 2,243,324.83
P.T. Station 21+22.90 N 1,686,095.90 E 2,243,331.90
C.C. N 1,686,127.62 E 2,242,832.91

Course from PT 70230 to 70002 3° 38' 14.74" Dist 40.19'

Point 70002 N 1,686,136.01 E 2,243,334.45 Sta 21+63.09

Ending chain PALLEY description
=====

PBENGSTON

Chain PBENGSTON contains:
70200 70001

Beginning chain PBENGSTON description
=====

Point 70200 N 1,685,963.29 E 2,242,932.35 Sta 10+00.00

Course from 70200 to 70001 3° 36' 39.23" Dist 151.63'

Point 70001 N 1,686,114.61 E 2,242,941.90 Sta 11+51.63

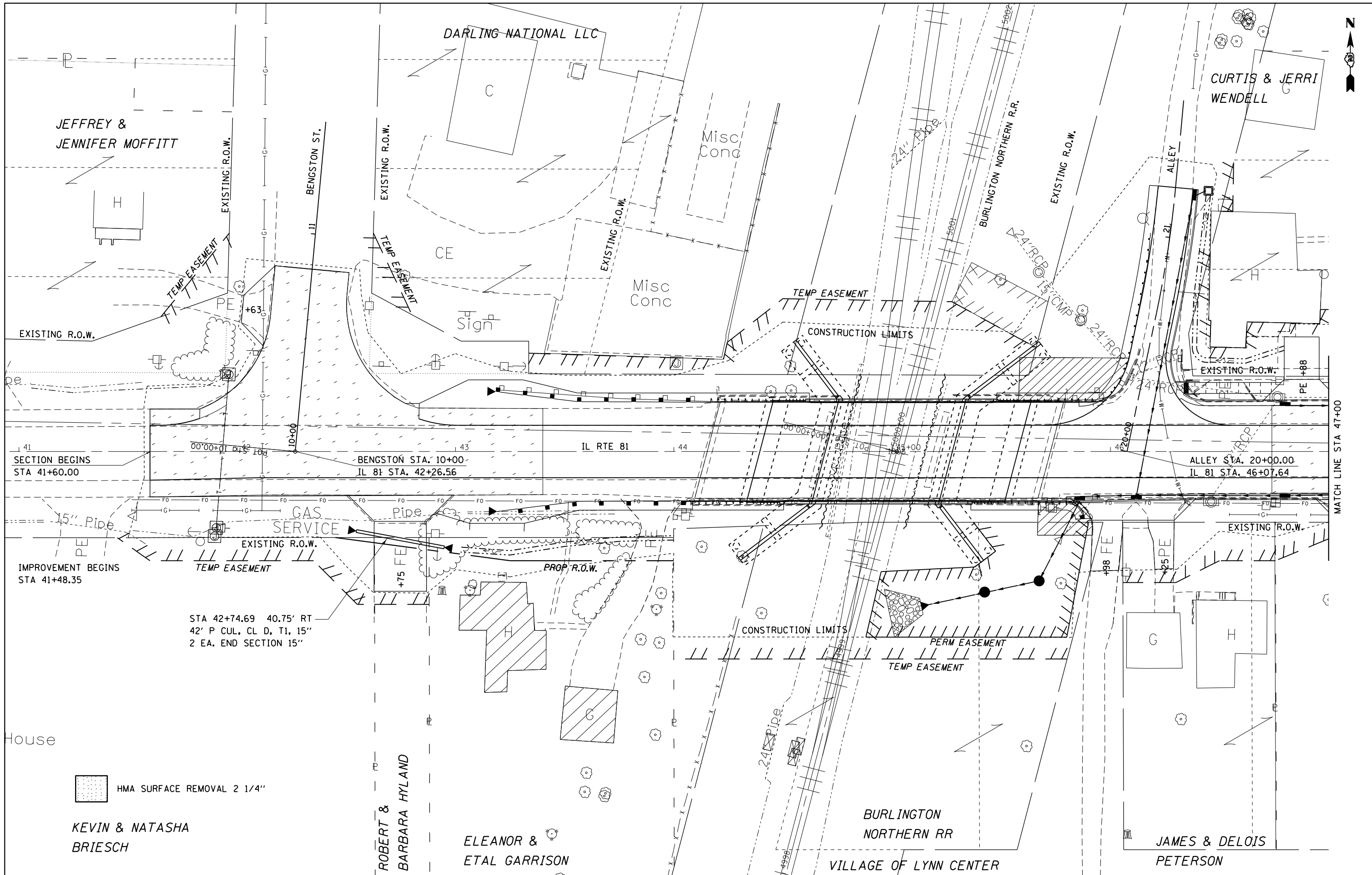
Ending chain PBENGSTON description
=====

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1686010.8440	2243308.3600	752.6395	IL81	46+03.8080	36.4654' LT	GPS CONTROL POINT, REBAR
2	1685990.6080	2243018.4980	752.4020	IL81	43+13.4759	24.772' LT	GPS CONTROL POINT, REBAR
3	1685957.3330	2243660.8680	755.0089	IL81	49+54.5878	27.4006' RT	GPS CONTROL POINT, REBAR

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1685782.4870	2247738.5040	757.7015	IL81	90+37.5406	108.1344' RT	FLAG POLE, CHISELED SQUARE
401	1685954.1690	2244011.9860	755.6548	IL81	53+06.3813	37.5177' RT	CATCH BASIN PEREMITER, CHISELED SQUARE
454	1685993.1049	2243125.3771	753.7270	IL81	44+20.3822	24.1212' LT	TOP OF WINGWALL, CHISELED SQUARE

REFERENCE TIES							
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION	
500	1686004.5480	2243027.2870	IL81	43+22.6715	38.4472' LT	POWER POLE, PK NAIL	
501	1686004.4230	2242995.3540	IL81	42+90.7487	39.2624' LT	POWER POLE, PK NAIL	
502	1685926.8170	2242899.6340	IL81	41+92.7854	35.4919' RT	POWER POLE, PK NAIL	
503	1685919.3690	2243314.8920	IL81	46+07.6441	55.1623' RT	POWER POLE, PK NAIL	
504	1685952.0900	2243378.0980	IL81	46+71.7860	24.3163' RT	POWER POLE, PK NAIL	
505	1686023.6700	2243349.9370	IL81	46+45.7446	48.0617' LT	PRIVATE BUILDING, FOUNDATION	
506	1685957.5520	2243586.2910	IL81	48+80.0496	24.9861' RT	POWER POLE, PK NAIL	
507	1686011.2370	2243680.0550	IL81	49+75.3535	25.9151' LT	POWER POLE, PK NAIL	
508	1685958.8430	2243676.9980	IL81	49+70.7553	26.3662' RT	POWER POLE, PK NAIL	

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1685978.5850	2242827.5110	752.2390	IL81	41+22.2177	18.377' LT	SURVEY WORK POINT, PK NAIL
101	1685919.9460	2243067.5060	752.8530	IL81	43+60.3823	47.3022' RT	SURVEY WORK POINT, NAIL
102	1685993.2180	2243200.3880	728.7340	IL81	44+95.3639	22.0258' LT	SURVEY WORK POINT, NAIL
103	1686229.3080	2243248.8550	729.8130	IL81	45+50.7606	256.5866' LT	SURVEY WORK POINT, NAIL
104	1685939.0050	2243193.3940	728.7900	IL81	44+86.7768	31.9578' RT	SURVEY WORK POINT, NAIL
150	1686120.2557	2243364.0830	753.0490	IL81	46+62.7281	144.1891' LT	TOPO SURVEY POINT, NAIL
151	1686200.7809	2243373.5980	752.1172	IL81	46+74.6097	224.3993' LT	TOPO SURVEY POINT, NAIL
152	1685772.9878	2243287.9528	749.8361	IL81	45+76.4069	200.6869' RT	TOPO SURVEY POINT, NAIL
153	1686004.3365	2243123.8951	751.2890	IL81	44+19.2315	35.3915' LT	TOPO SURVEY POINT, NAIL
154	1686021.8777	2243767.2355	754.8720	IL81	50+62.6923	34.0556' LT	TOPO SURVEY POINT, PIN
155	1685764.3738	2243073.7082	744.7056	IL81	43+62.0016	202.9896' RT	TOPO SURVEY POINT, NAIL
156	1685881.6190	2243089.7672	752.1398	IL81	43+81.5055	86.268' RT	TOPO SURVEY POINT, NAIL



 HMA SURFACE REMOVAL 2 1/4"

KEVIN & NATASHA
BRIESCH

ROBERT &
BARBARA HYLAND

ELEANOR &
ETAL GARRISON

BURLINGTON
NORTHERN RR
VILLAGE OF LYNN CENTER

JAMES & DELOIS
PETERSON

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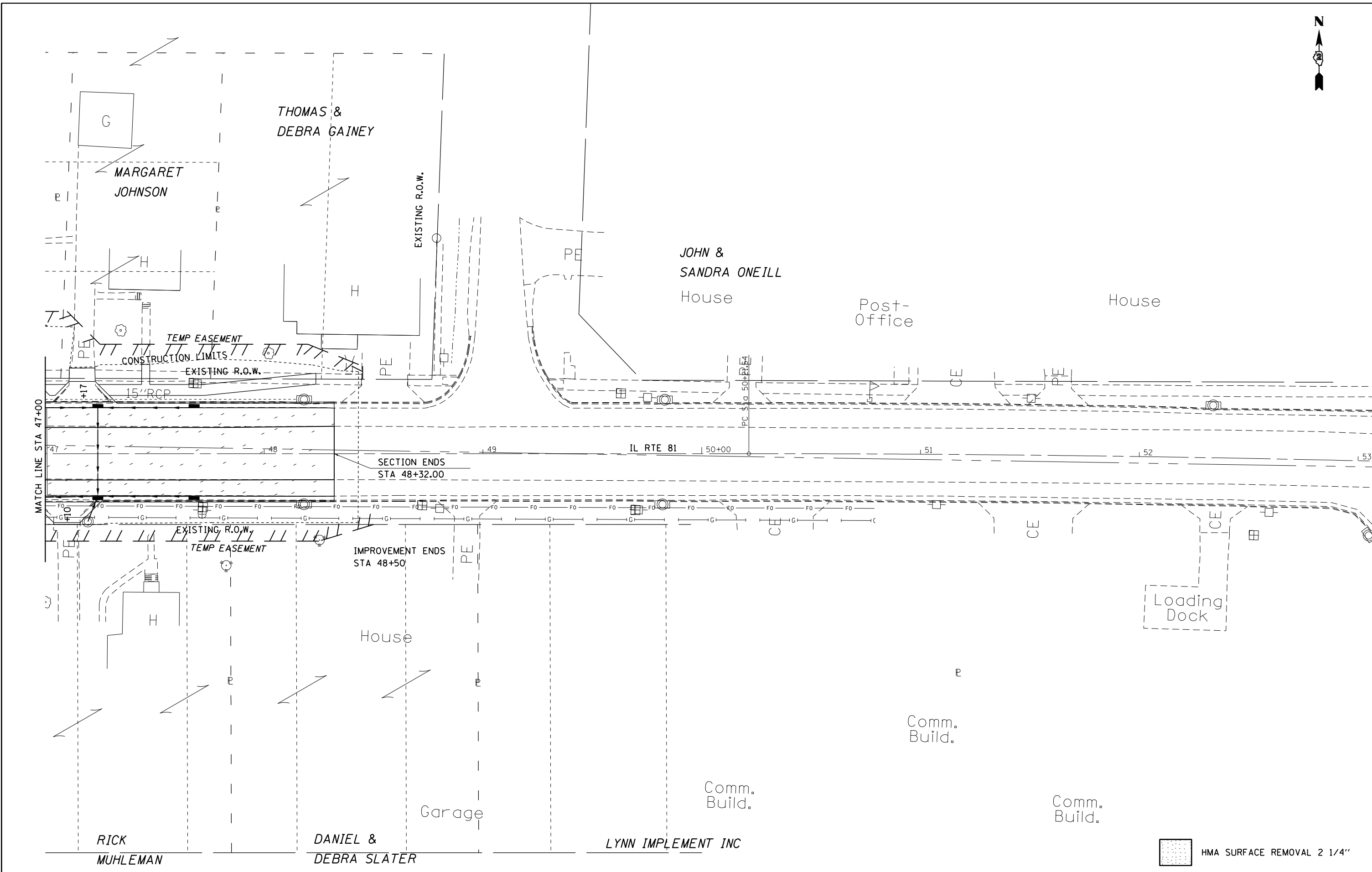
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE
IL 81 OVER THE BNSF RAILROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	35
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 47+00

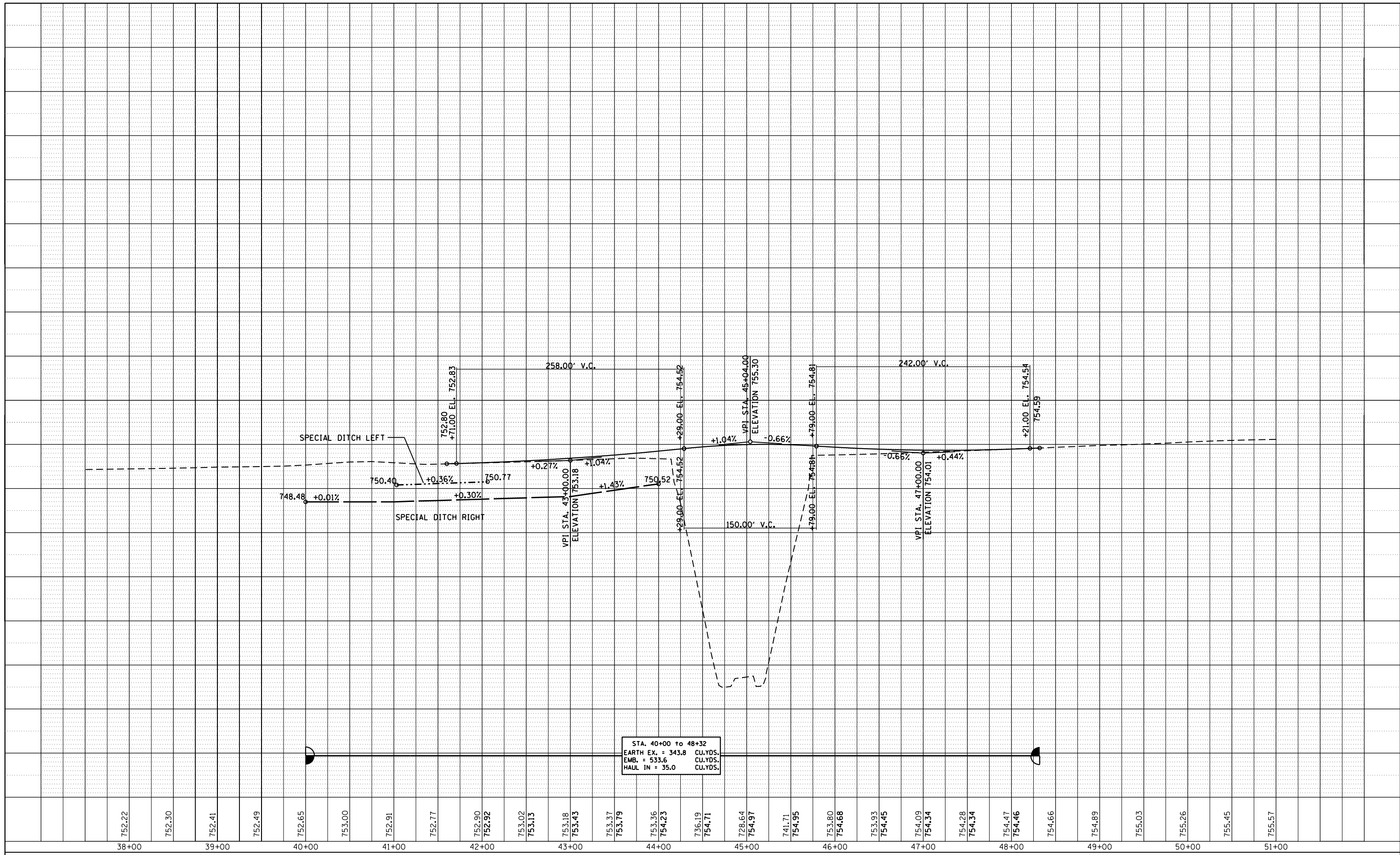


 HMA SURFACE REMOVAL 2 1/4"

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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			223	101VBR	HENRY	139	36
Default	PLOT DATE = Aug-03-2015 09:47:45 AM	DATE -	REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 64F84 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	NO. _____		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO. _____		

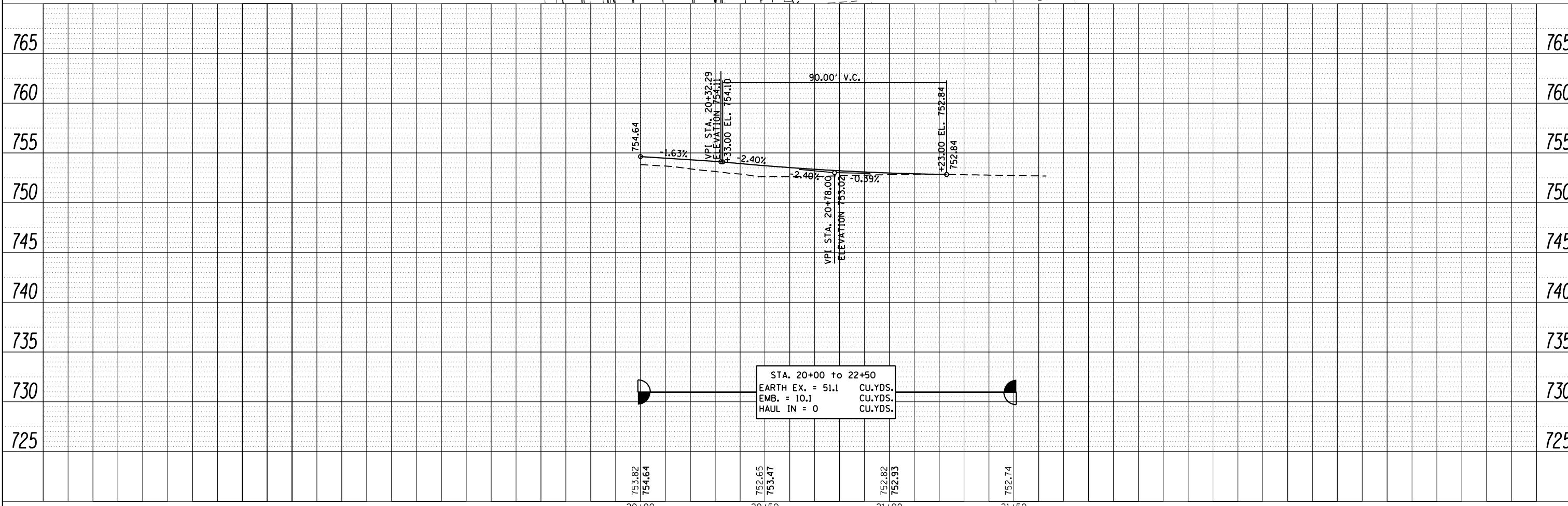
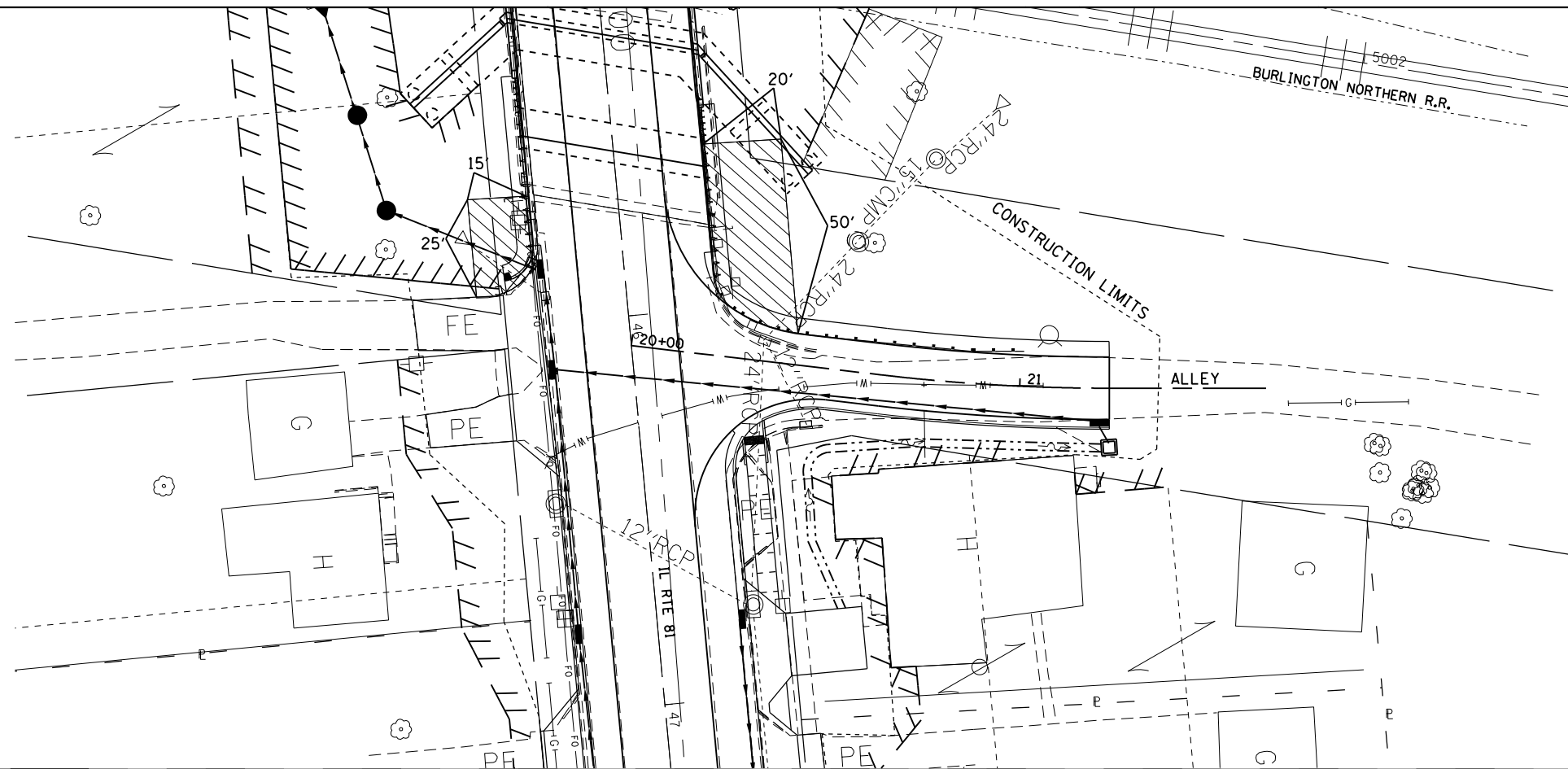


STA. 40+00 to 48+32
 EARTH EX. = 343.8 CU.YDS.
 EMB. = 533.6 CU.YDS.
 HAUL IN = 35.0 CU.YDS.

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE IL 81 OVER THE BNSF RAILROAD AT LYNN CENTER	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			223	101VBR	HENRY	139	37	
		DATE -	REVISED -			CONTRACT NO. 64F84					
						ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	CADD FILE NAME	

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



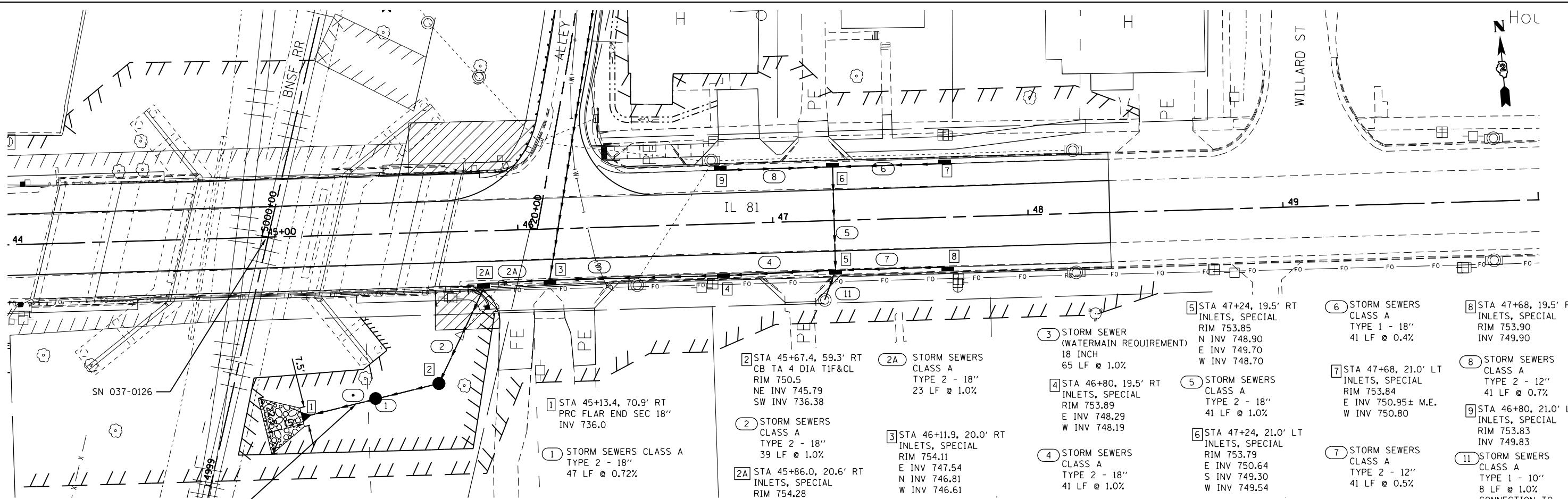
STA. 20+00 to 22+50
 EARTH EX. = 51.1 CU.YDS.
 EMB. = 10.1 CU.YDS.
 HAUL IN = 0 CU.YDS.

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE ALLEY	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -			223	101VBR	HENRY	139	39
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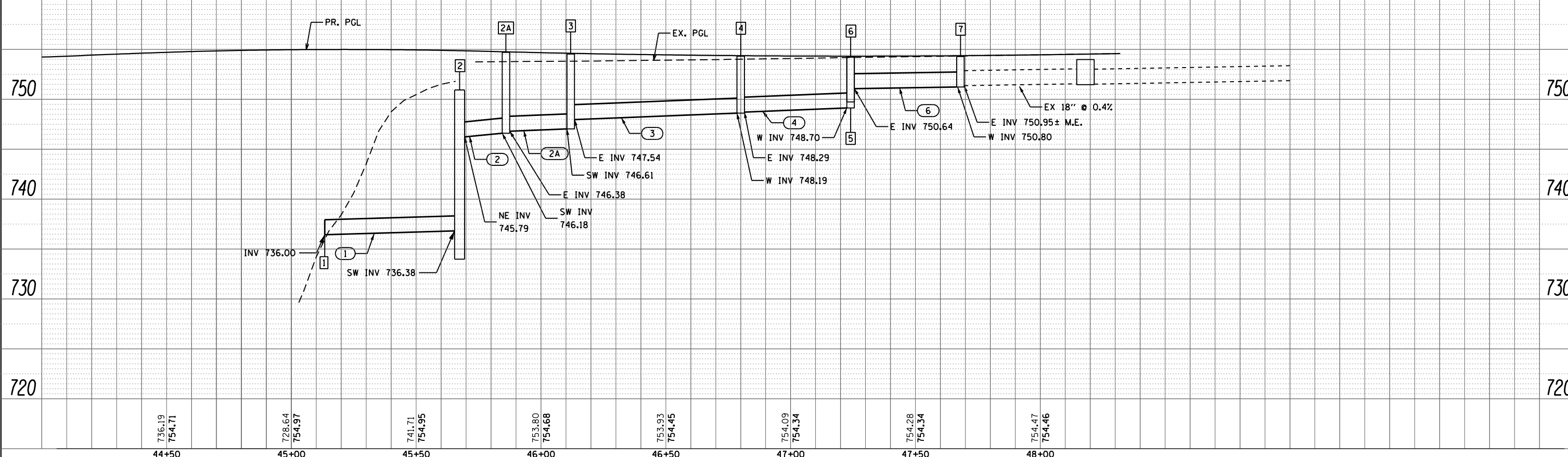
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	PLOTTED	BY
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
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760



760



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	DRAWN	REVISED
PLOT SCALE = 40.0000' / in.	CHECKED	REVISED
PLOT DATE = Aug-03-2015 11:03:32 AM	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN & PROFILE
IL 81 OVER BNSF RAILROAD AT LYNN CENTER

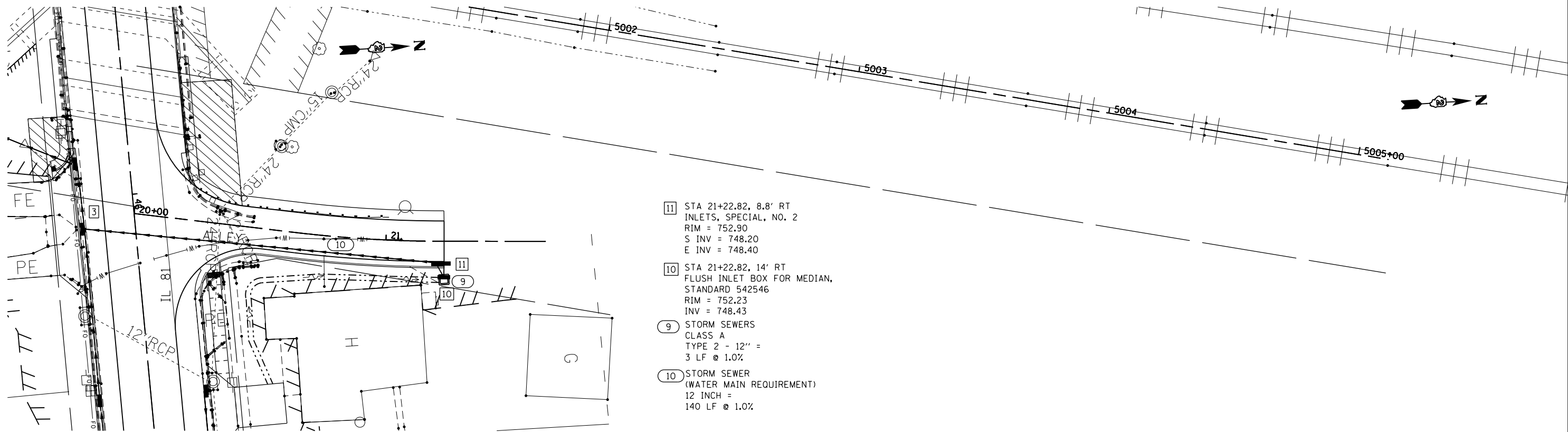
F.A.P. RTE. 223	SECTION 101VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 40
CONTRACT NO. 64F84				ILLINOIS FED. AID PROJECT

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

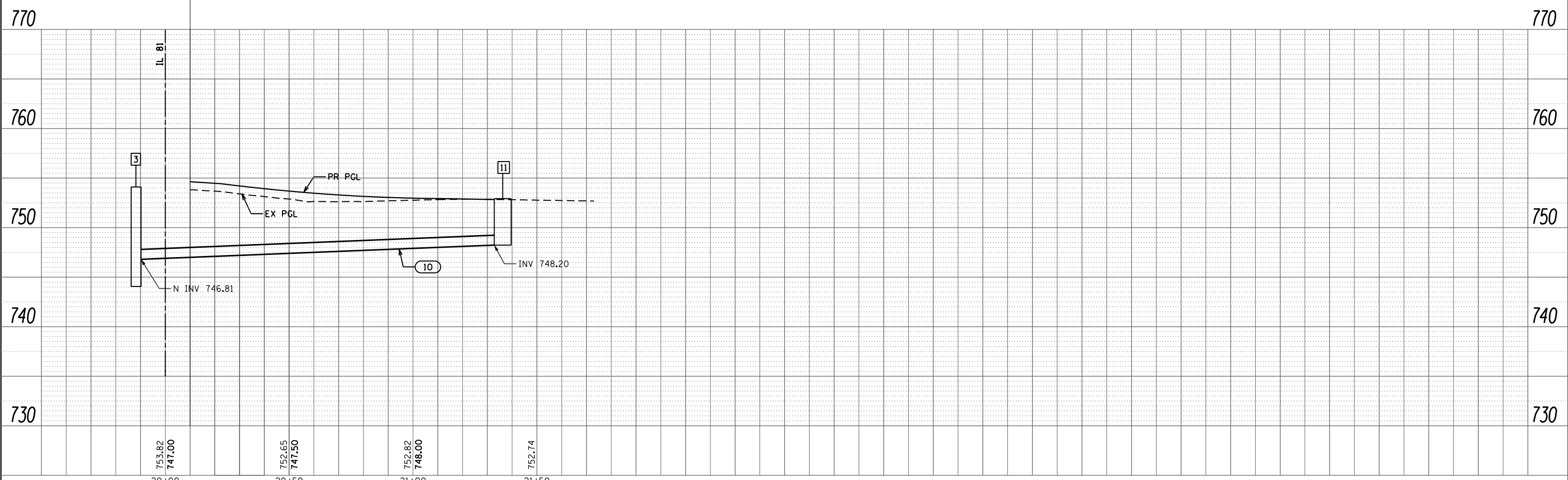
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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOT AT THIS OFFICE	
	NO.	

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- 11 STA 21+22.82, 8.8' RT INLETS, SPECIAL, NO. 2
RIM = 752.90
S INV = 748.20
E INV = 748.40
- 10 STA 21+22.82, 14' RT FLUSH INLET BOX FOR MEDIAN, STANDARD 542546
RIM = 752.23
INV = 748.43
- 9 STORM SEWERS CLASS A TYPE 2 - 12" = 3 LF @ 1.0%
- 10 STORM SEWER (WATER MAIN REQUIREMENT) 12 INCH = 140 LF @ 1.0%



753.82	747.00	752.65	747.50	752.82	748.00	752.74
20+00		20+50		21+00		21+50

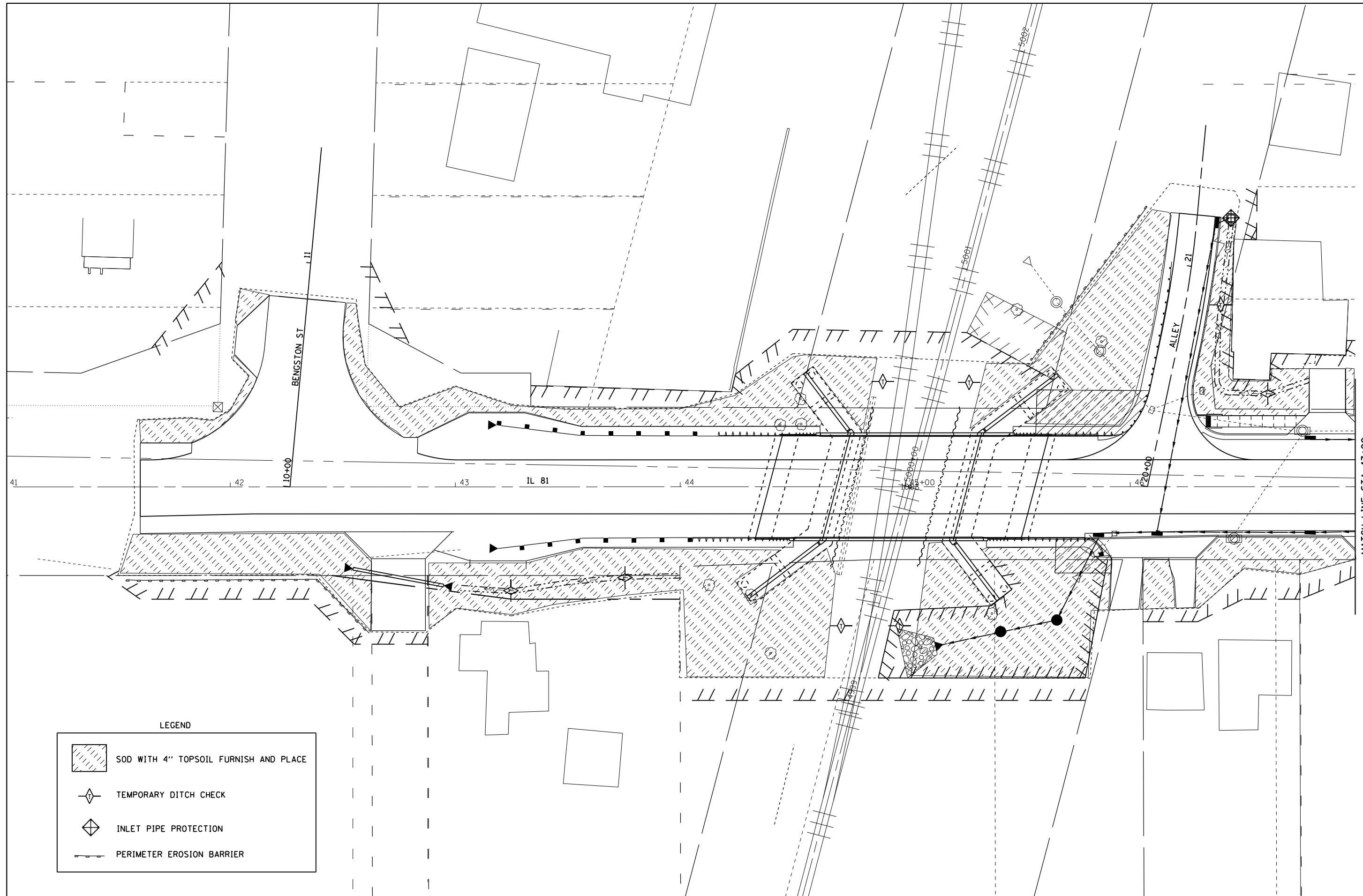


USER NAME = FASSLERMJ	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 40.0000' / in.	CHECKED	REVISED
PLOT DATE = Aug-03-2015 10:54:29 AM	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





ALLEY DRAINAGE PLAN & PROFILE			
IL 81 OVER BNSF RAILROAD AT LYNN CENTER			
SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 223	SECTION 101VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 41
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 47+00

LEGEND

	SOD WITH 4" TOPSOIL FURNISH AND PLACE
	TEMPORARY DITCH CHECK
	INLET PIPE PROTECTION
	PERIMETER EROSION BARRIER

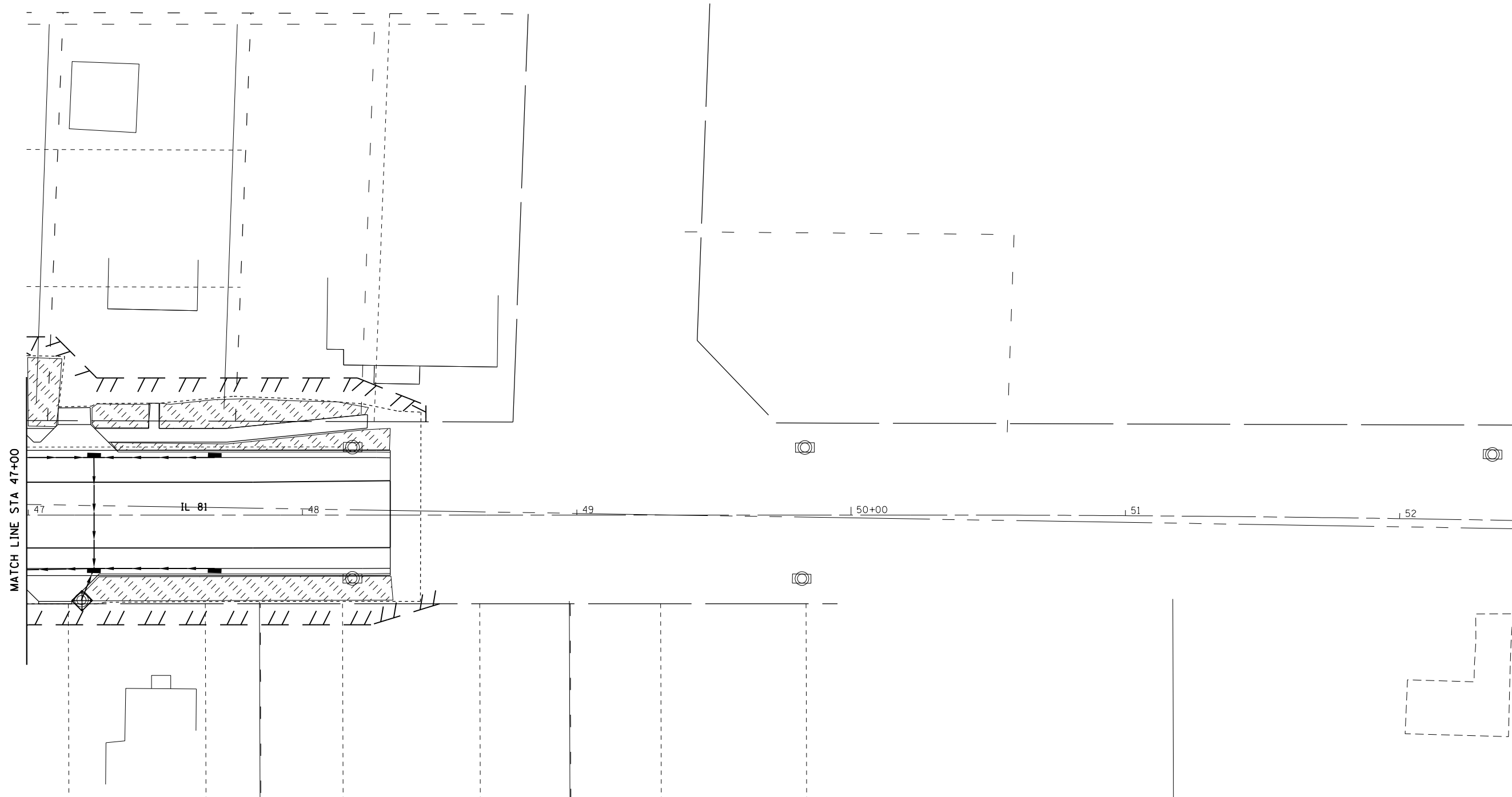
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




EROSION AND SEDIMENT CONTROL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	42
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



LEGEND

	SOD WITH 4" TOPSOIL FURNISH AND PLACE
	TEMPORARY DITCH CHECK
	INLET PIPE PROTECTION

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -
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Default	PLOT DATE = Aug-03-2015 11:16:31 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	43
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square on railroad headwall, Sta. 44+20.3
24.05' L.L., Elev. 753.73

Existing Structure: S.N. 037-0126 was built as SBI 81, section 101VB at sta. 44+64.5 in 1971 as three span PPC deck beam, R.C. stub abutments on metal shell concrete piles, and triple-column hammerhead piers on spread footings; 161'-6 1/4" Bk.-to-Bk., 46'-6" out-to-out. Existing structure is to be removed and replaced utilizing bridge closure and traffic detour. Rail line shall remain operational.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications,
6th Edition with 2013 Interims

LOADING HL-93

No future wearing surface allowed.

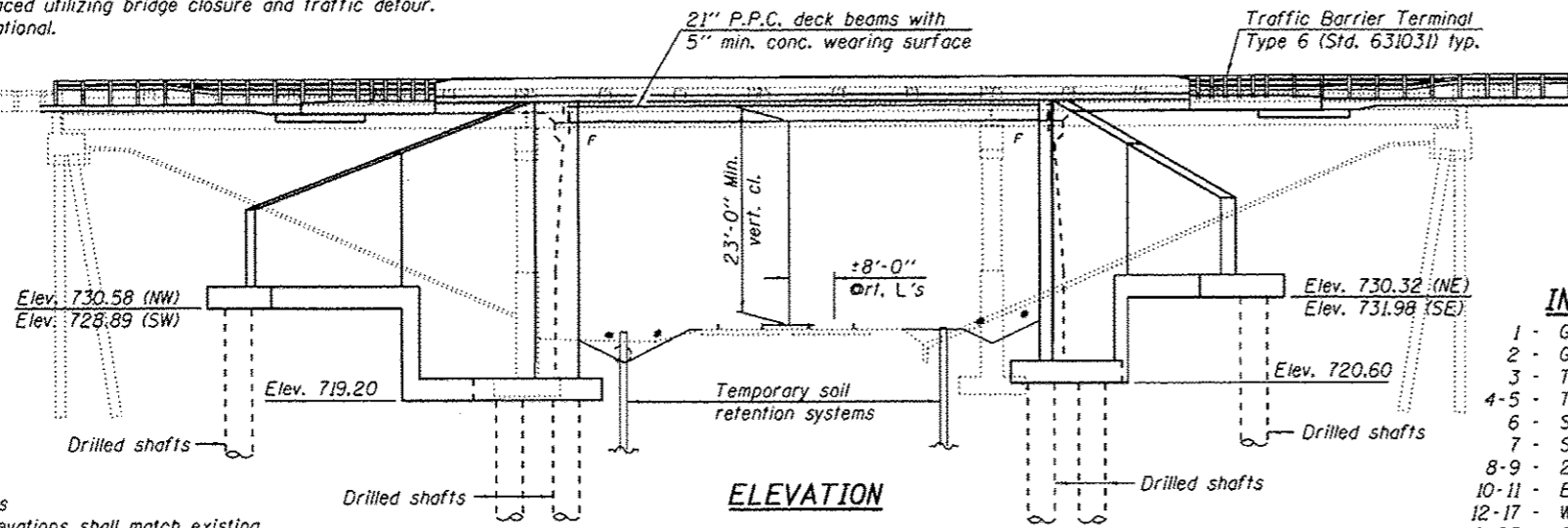
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.092 g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.137 g
Soil Site Class = D

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal of the structure.
Slipforming of parapet is not permitted.

No Salvage



ELEVATION

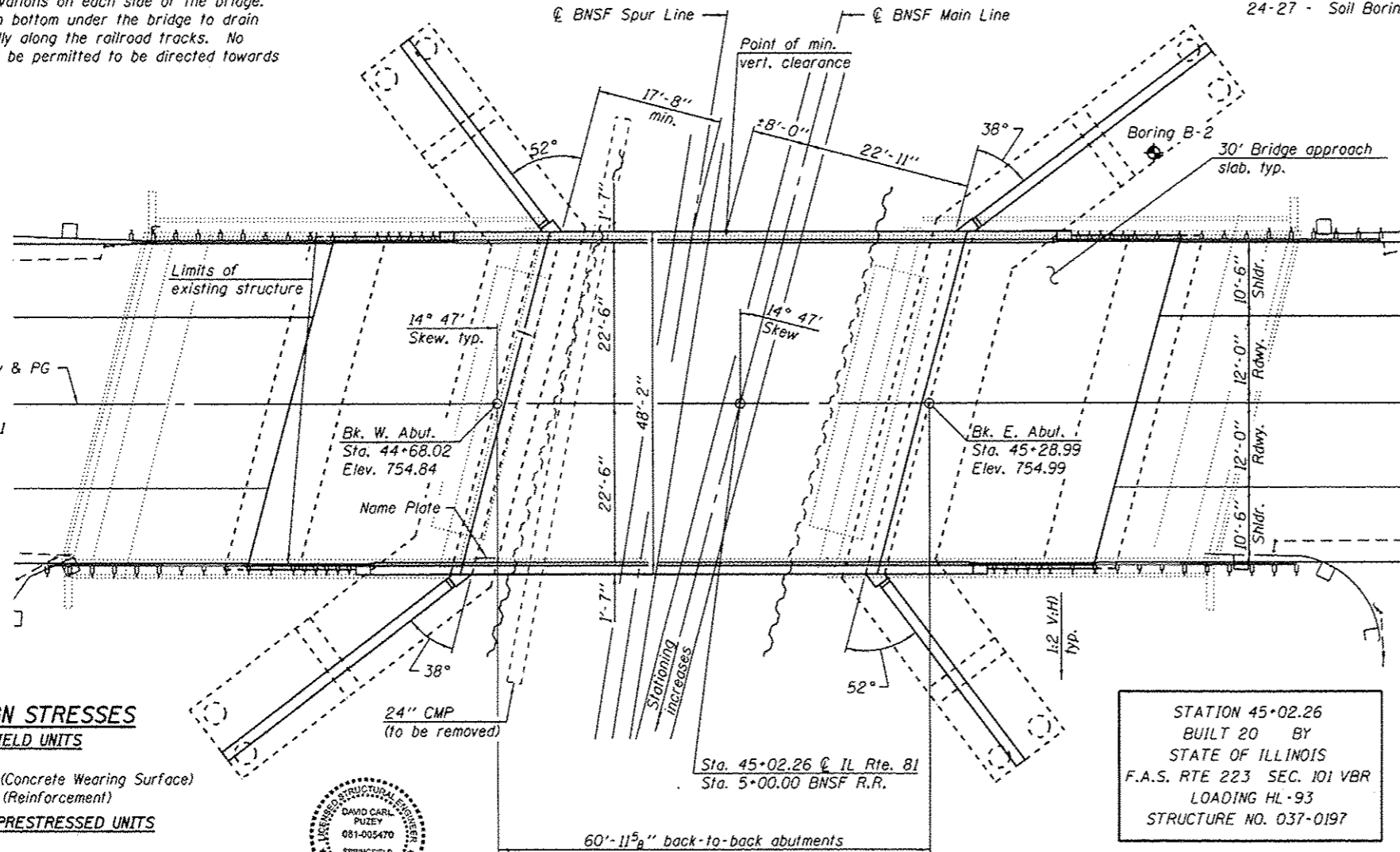
INDEX OF SHEETS

- 1 - General Plan and Elevation
- 2 - General Data
- 3 - Top of Slab Elevations
- 4-5 - Top of Approach Slab Elevations
- 6 - Superstructure
- 7 - Superstructure Details
- 8-9 - 21" x 48" PPC Deck Beam Details
- 10-11 - Bridge Approach Slab Details
- 12-17 - West Abutment
- 18-23 - East Abutment
- 24-27 - Soil Boring Logs

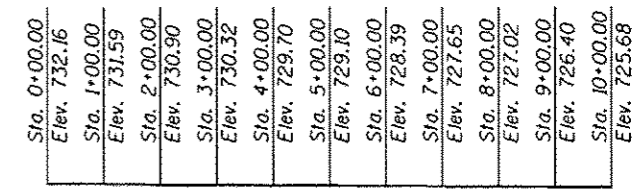
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal Of Existing Structures	Each			1
Slopedwall Removal	Sq. Yd.		868	868
Structure Excavation	Cu. Yd.		1,796	1,796
Concrete Structures	Cu. Yd.		1,181.0	1,181.0
Concrete Superstructure	Cu. Yd.	165.3		165.3
Bridge Deck Grooving	Sq. Yd.	563		563
Protective Coat	Sq. Yd.	672		672
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2,794		2,794
Reinforcement Bars, Epoxy Coated	Pound	45,900	631,820	677,720
Name Plates	Each	1		1
Drilled Shaft In Soil	Cu. Yd.		867.5	867.5
Geocomposite Wall Drain	Sq. Yd.		459	459
Lightweight Cellular Concrete Fill	Cu. Yd.		1,539	1,539
Concrete Wearing Surface, 5"	Sq. Yd.	310.4		310.4
Granular Backfill For Structures	Cu. Yd.		561	561
Asbestos Bearing Pad Removal	Each	48		48
Temporary Soil Retention System	Sq. Ft.		1,363	1,363

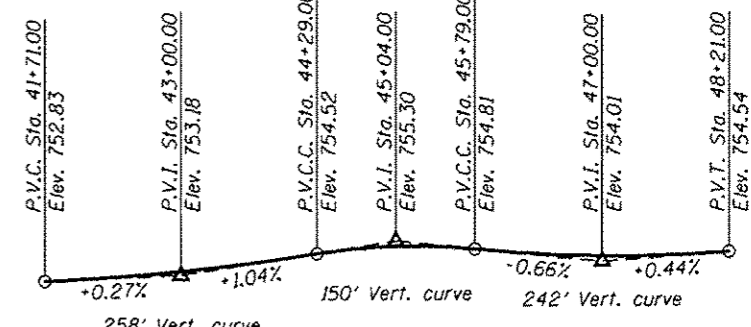
• 1:2 (V:H) at Rt. L's
Bottom of ditch elevations shall match existing ground elevations on each side of the bridge. Slope ditch bottom under the bridge to drain longitudinally along the railroad tracks. No runoff will be permitted to be directed towards the track.



PLAN



PROFILE GRADE
(Along $\text{\textcircled{C}}$ BNSF mainline)



PROFILE GRADE
(Along $\text{\textcircled{C}}$ roadway)

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f'_c = 5,000 psi (Concrete Wearing Surface)
 f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

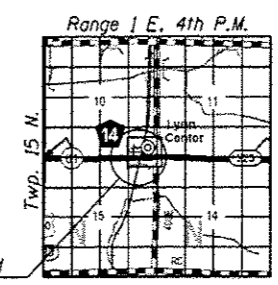
f'_c = 7,000 psi
 f'_{ci} = 6,000 psi
 f'_s = 270,000 psi (1/2" ϕ low lax strands)
 f'_{si} = 201,960 psi (1/2" ϕ low lax strands)



EXPIRES 11-30-2016

STATION 45+02.26
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE 223 SEC. 101 VBR
LOADING HL-93
STRUCTURE NO. 037-0197

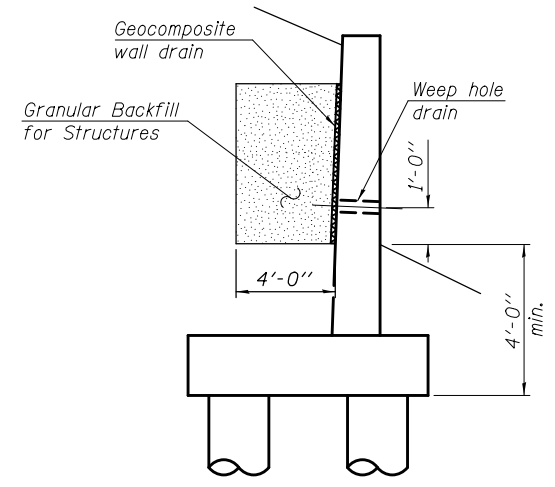
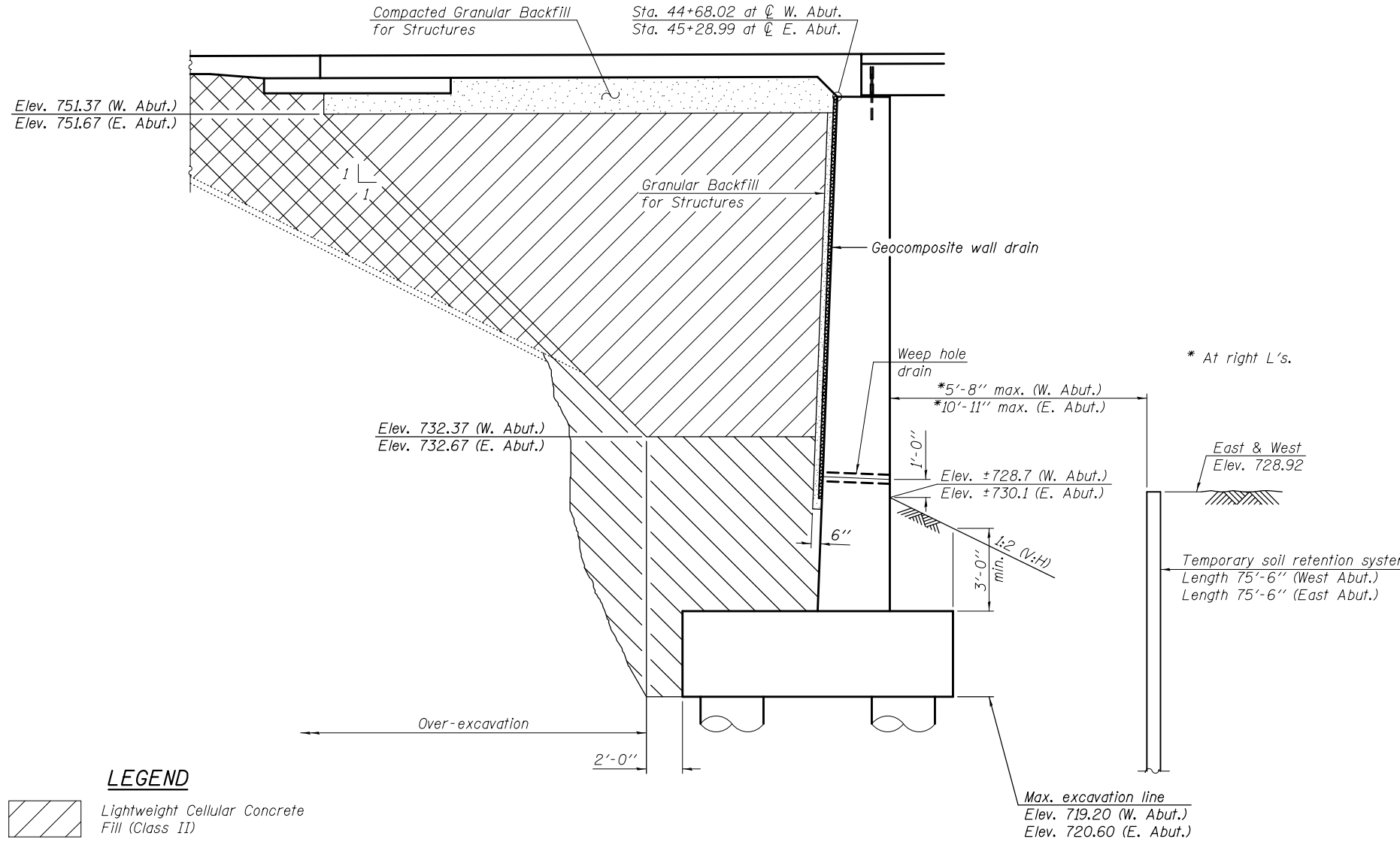
NAME PLATE
See Std. 515001



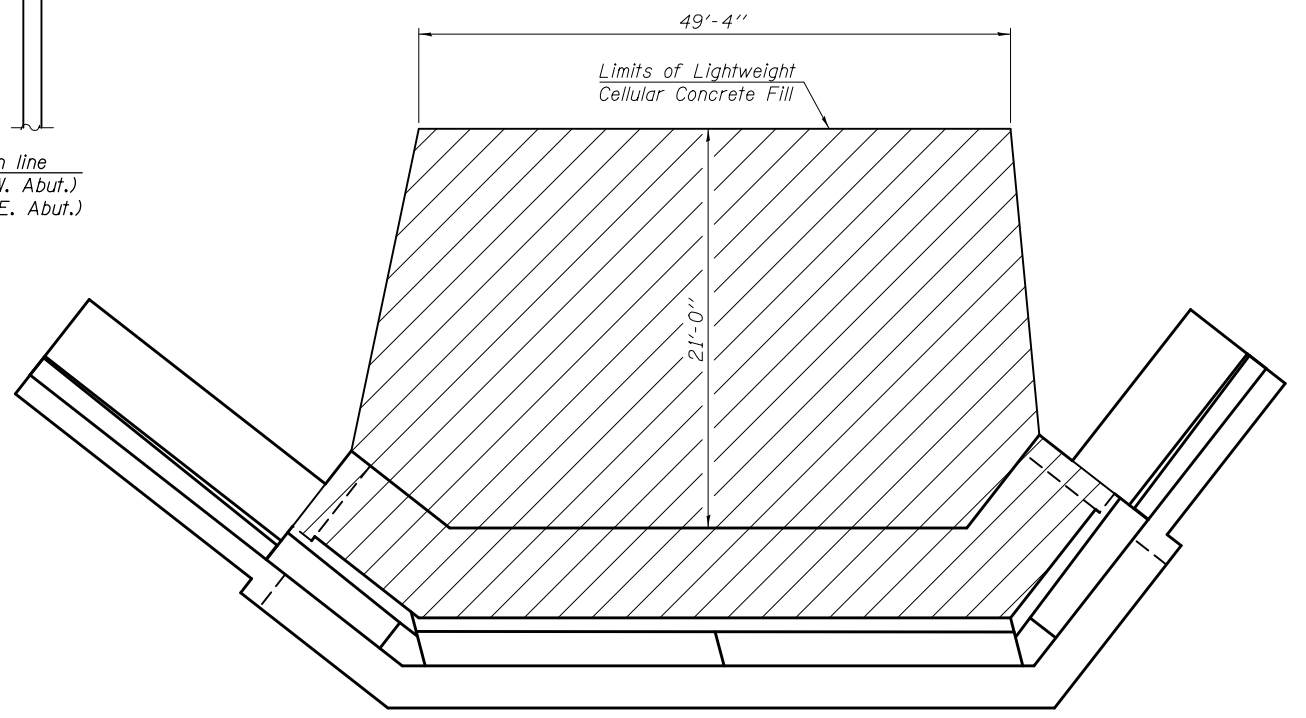
LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 81 OVER BURLINGTON
NORTHERN SANTA FE RAILROAD
F.A.S. ROUTE 223 - SEC. 101 VBR
HENRY COUNTY
STA. 45+02.26
STRUCTURE NO. 037-0197

DESIGNED - <i>[Signature]</i>	EXAMINED - <i>[Signature]</i>	DATE - 10/1/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET NO. 1 OF 27 SHEETS
CHECKED - <i>[Signature]</i>	PASSED - <i>[Signature]</i>	REVISOR -		
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -	F.A.S. RTE. 223	SECTION 101 VBR
CHECKED - DHR / NRR / BPA			COUNTY HENRY	TOTAL SHEETS 139
			CONTRACT NO. 64F84	SHEET NO. 44



**SECTION THRU
ABUTMENT WINGWALL**



PLAN
(Typical at each abutment)

LEGEND

- Lightweight Cellular Concrete Fill (Class II)
- Backfill included in the cost of Structure Excavation (See Article 502 of the Standard Specifications).
- Embankment (See Roadway plans for quantity).

SECTION THRU ABUTMENT

Notes:
 Lightweight cellular concrete fill shall be Class II as specified in the Special Provision, "Lightweight Cellular Concrete Fill".
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 The lightweight cellular concrete fill (LCCF) shall satisfy the Class II requirements and be placed in lifts not exceeding 4 ft. according to the special provisions. Forms shall be braced against the stem to maintain the specified 6 inch gap and placed as needed on adjacent sides to provide the minimum LCCF limits shown on the plans. After placement of each lift, the LCCF shall be allowed to cure without disturbance until it can support workers and equipment without damage. The forms and form bracing against the stem shall be removed, granular backfill for structures shall be placed in the 6 inch gap behind the stem and embankment shall be compacted against the adjacent LCCF exposed faces, prior to placing the next lift.

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED -	DATE - OCTOBER 1, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 037 - 0197	F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 45	
CHECKED - NICHOLAS R. BARNETT	PASSED -	REVISOR -			CONTRACT NO. 64F84					
DRAWN - MICHAEL B. MOSSMAN		REVISOR -			SHEET NO. 2 OF 27 SHEETS					
CHECKED - D.H.R. / N.R.B. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES				ILLINOIS FED. AID PROJECT					

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Back W. Abut.	44+73.96	-22.50	754.52
☉ Brg. W. Abut.	44+75.94	-22.50	754.53
C	44+85.94	-22.50	754.58
D	44+95.94	-22.50	754.61
E	45+05.94	-22.50	754.63
F	45+15.94	-22.50	754.64
G	45+25.94	-22.50	754.64
☉ Brg. E. Abut.	45+32.95	-22.50	754.64
Back E. Abut.	45+34.93	-22.50	754.63

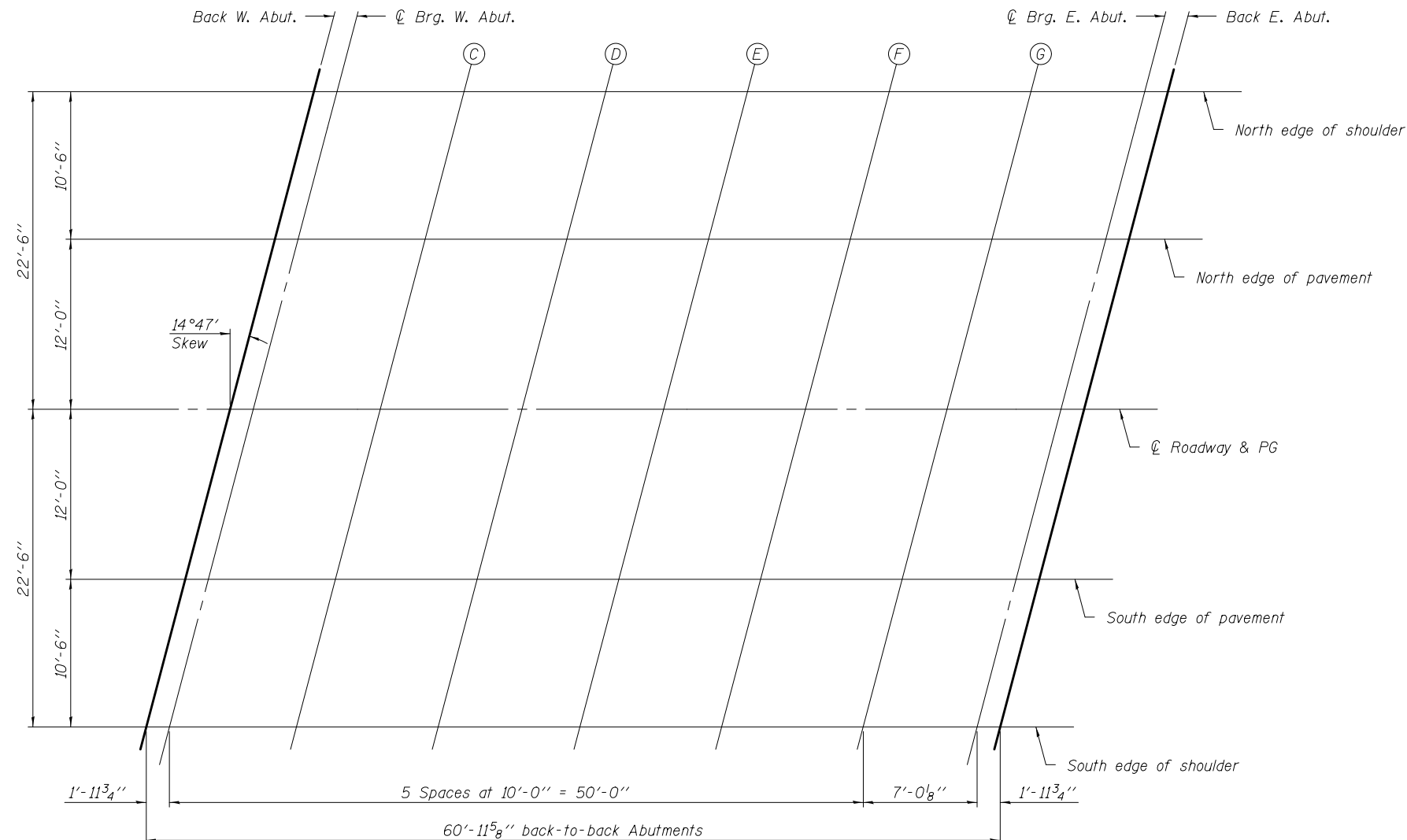
NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back W. Abut.	44+71.19	-12.00	754.67
☉ Brg. W. Abut.	44+73.17	-12.00	754.68
C	44+83.17	-12.00	754.73
D	44+93.17	-12.00	754.77
E	45+03.17	-12.00	754.79
F	45+13.17	-12.00	754.81
G	45+23.17	-12.00	754.81
☉ Brg. E. Abut.	45+30.17	-12.00	754.80
Back E. Abut.	45+32.16	-12.00	754.80

☉ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
Back W. Abut.	44+68.02	0.00	754.84
☉ Brg. W. Abut.	44+70.00	0.00	754.85
C	44+80.00	0.00	754.90
D	44+90.00	0.00	754.94
E	45+00.00	0.00	754.97
F	45+10.00	0.00	754.99
G	45+20.00	0.00	755.00
☉ Brg. E. Abut.	45+27.01	0.00	754.99
Back E. Abut.	45+28.99	0.00	754.99

Back W. Abut. ☉ Brg. W. Abut.



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back W. Abut.	44+64.85	12.00	754.63
☉ Brg. W. Abut.	44+66.84	12.00	754.64
C	44+76.84	12.00	754.70
D	44+86.84	12.00	754.74
E	44+96.84	12.00	754.78
F	45+06.84	12.00	754.80
G	45+16.84	12.00	754.81
☉ Brg. E. Abut.	45+23.84	12.00	754.81
Back E. Abut.	45+25.82	12.00	754.81

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Back W. Abut.	44+62.08	22.50	754.45
☉ Brg. W. Abut.	44+64.06	22.50	754.46
C	44+74.06	22.50	754.52
D	44+84.06	22.50	754.57
E	44+94.06	22.50	754.61
F	45+04.06	22.50	754.63
G	45+14.06	22.50	754.64
☉ Brg. E. Abut.	45+21.07	22.50	754.65
Back E. Abut.	45+23.05	22.50	754.65

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
 CHECKED - NICHOLAS R. BARNETT
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED *James F. J...*
 PASSED *Carl...*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 037 - 0197**
 SHEET NO. 3 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	46
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

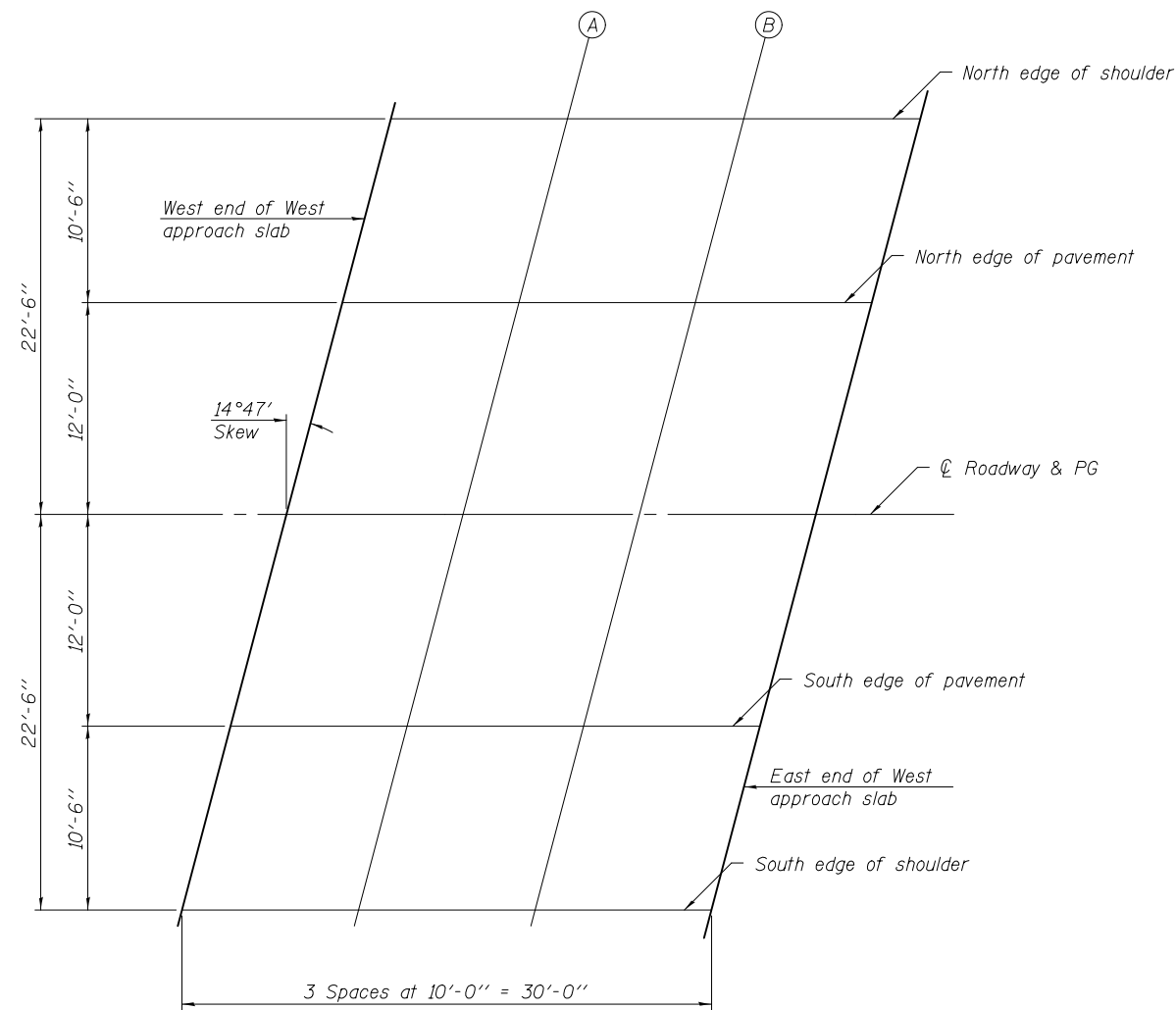
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	44+45.33	-22.50	754.32
A	44+55.33	-22.50	754.40
B	44+65.33	-22.50	754.47
E. End of W. Appr. Slab	44+75.33	-22.50	754.53

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	44+42.56	-12.00	754.46
A	44+52.56	-12.00	754.55
B	44+62.56	-12.00	754.62
E. End of W. Appr. Slab	44+72.56	-12.00	754.68

☉ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	44+39.39	0.00	754.62
A	44+49.39	0.00	754.71
B	44+59.39	0.00	754.78
E. End of W. Appr. Slab	44+69.39	0.00	754.85



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	44+36.22	12.00	754.40
A	44+46.22	12.00	754.49
B	44+56.22	12.00	754.57
E. End of W. Appr. Slab	44+66.22	12.00	754.64

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	44+33.45	22.50	754.21
A	44+43.45	22.50	754.31
B	44+53.45	22.50	754.39
E. End of W. Appr. Slab	44+63.45	22.50	754.46



SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl [Signature]</i>	REVISED -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037 - 0197**

SHEET NO. 4 OF 27 SHEETS

F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 47
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

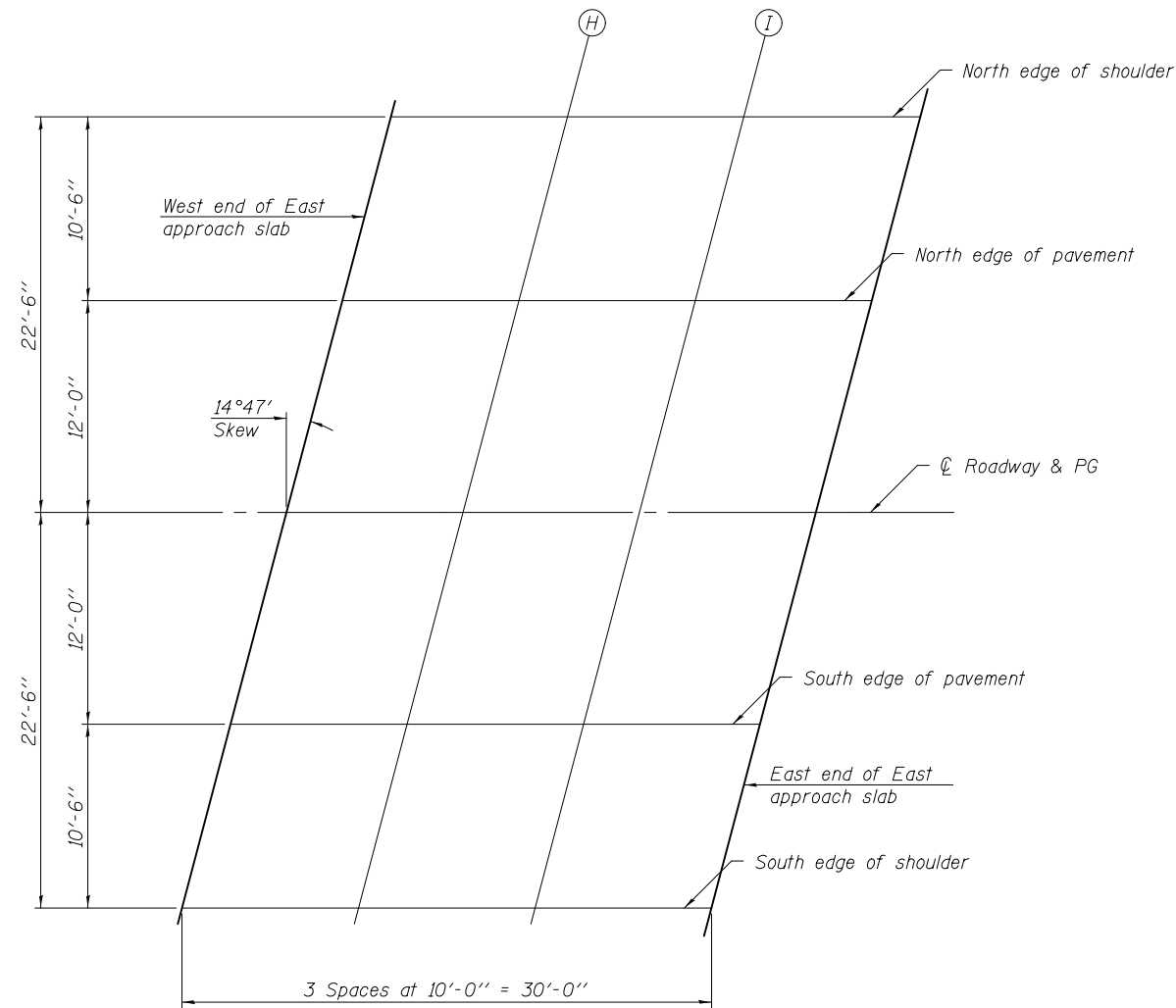
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	45+33.55	-22.50	754.64
H	45+43.55	-22.50	754.62
I	45+53.55	-22.50	754.58
E. End of E. Appr. Slab	45+63.55	-22.50	754.54

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	45+30.78	-12.00	754.80
H	45+40.78	-12.00	754.79
I	45+50.78	-12.00	754.76
E. End of E. Appr. Slab	45+60.78	-12.00	754.72

☉ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	45+27.61	0.00	754.99
H	45+37.61	0.00	754.98
I	45+47.61	0.00	754.96
E. End of E. Appr. Slab	45+57.61	0.00	754.92



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	45+24.44	12.00	754.81
H	45+34.44	12.00	754.80
I	45+44.44	12.00	754.78
E. End of E. Appr. Slab	45.54.44	12.00	754.75

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	45+21.67	22.50	754.65
H	45+31.67	22.50	754.64
I	45+41.67	22.50	754.62
E. End of E. Appr. Slab	45+51.67	22.50	754.59



SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
 CHECKED - NICHOLAS R. BARNETT
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED *Jaime F. J. [Signature]*
 PASSED *Carl [Signature]*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

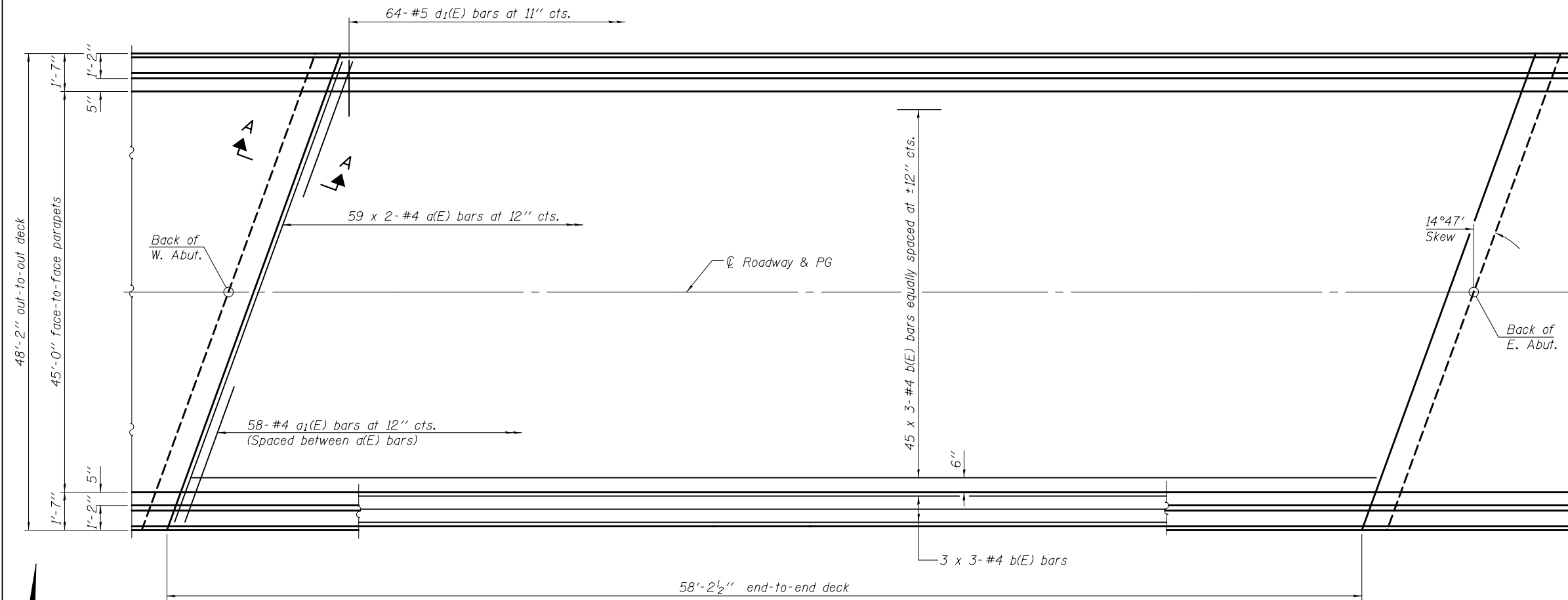
DATE - OCTOBER 1, 2015
 REVISED _____
 REVISED _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

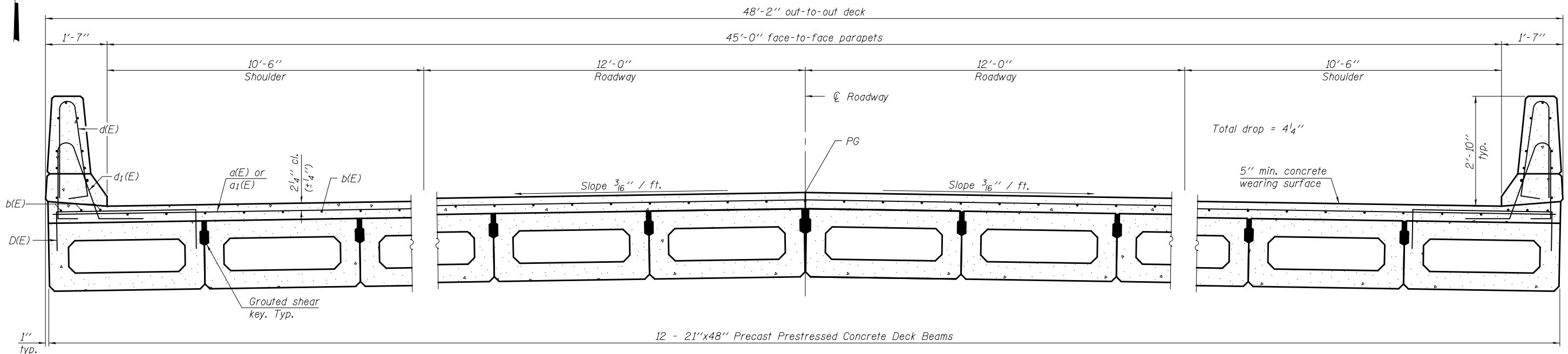
**TOP OF EAST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 037 - 0197**

SHEET NO. 5 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	48
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



PLAN



CROSS SECTION
(Looking East)

Notes:
 See sheet 7 of 27 for Superstructure Details and Bill of Material.
 See sheet 7 of 27 for Section A-A.
 Bars indicated thus 45 x 3-#4 etc. indicates 45 lines of bars with 3 lengths per line.
 Spacing of a(E) and a₁(E) bars shall be measured along the ϕ of structure.

MINIMUM BAR LAP
 #4 bar = 2'-7"

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED	REVISOR
DRAWN - MICHAEL B. MOSSMAN		REVISOR
CHECKED - D.H.R. / N.R.B. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES <i>Joanne F. J. [Signature]</i> <i>Carl [Signature]</i>	

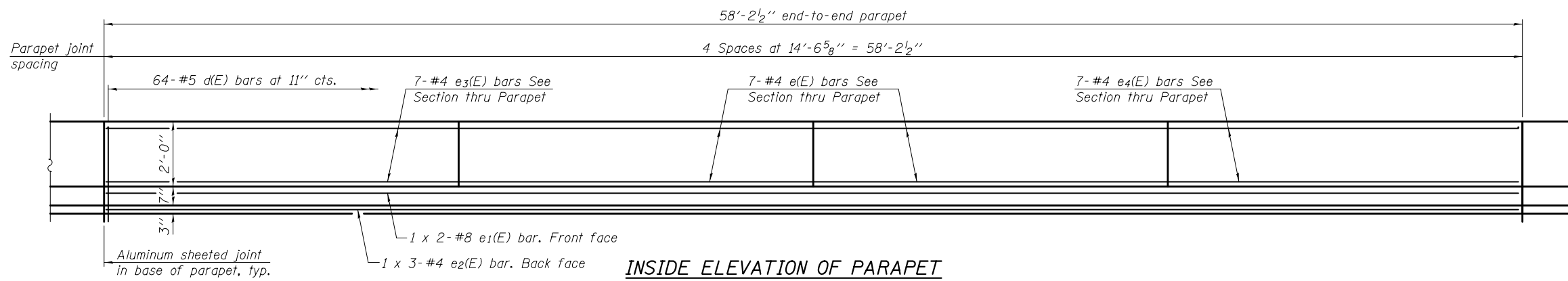
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 037 - 0197

SHEET NO. 6 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	49
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT

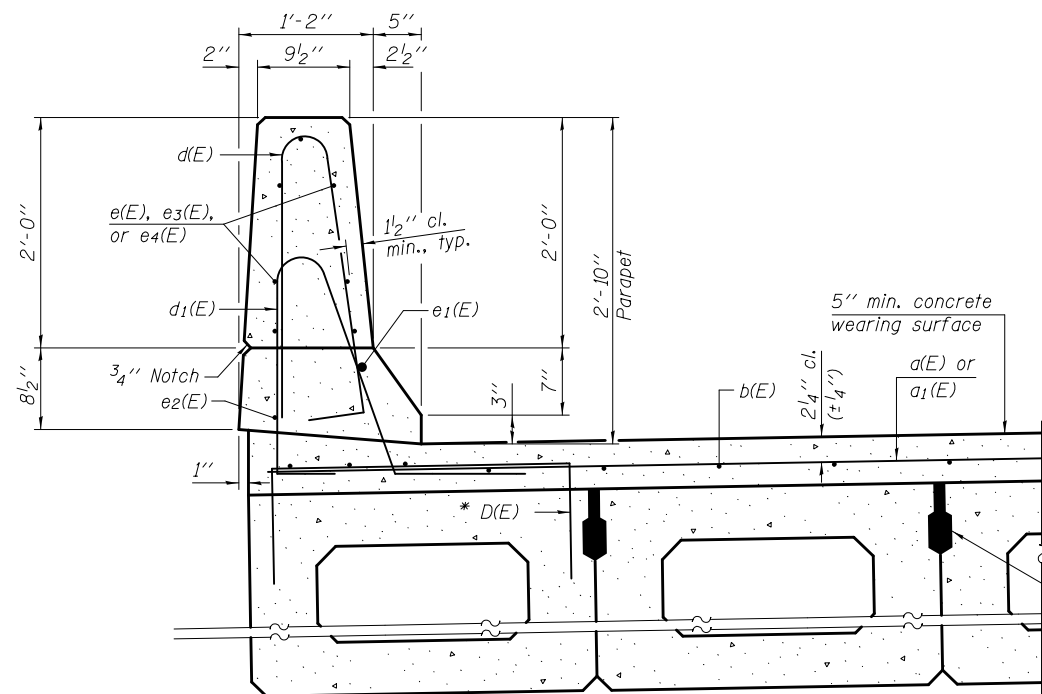


INSIDE ELEVATION OF PARAPET
(North parapet shown, South parapet similar)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet 9 of 27 for fabric bearing pad details.

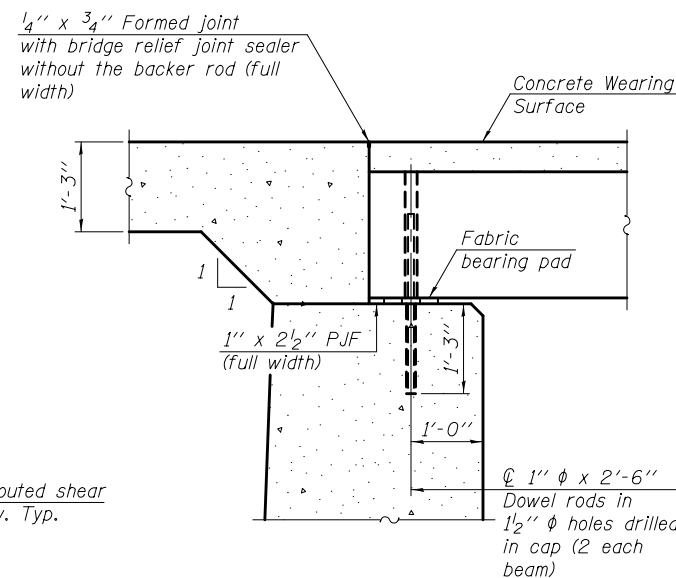
MINIMUM BAR LAP

#4 bar = 2'-0"
#8 bar = 5'-2"

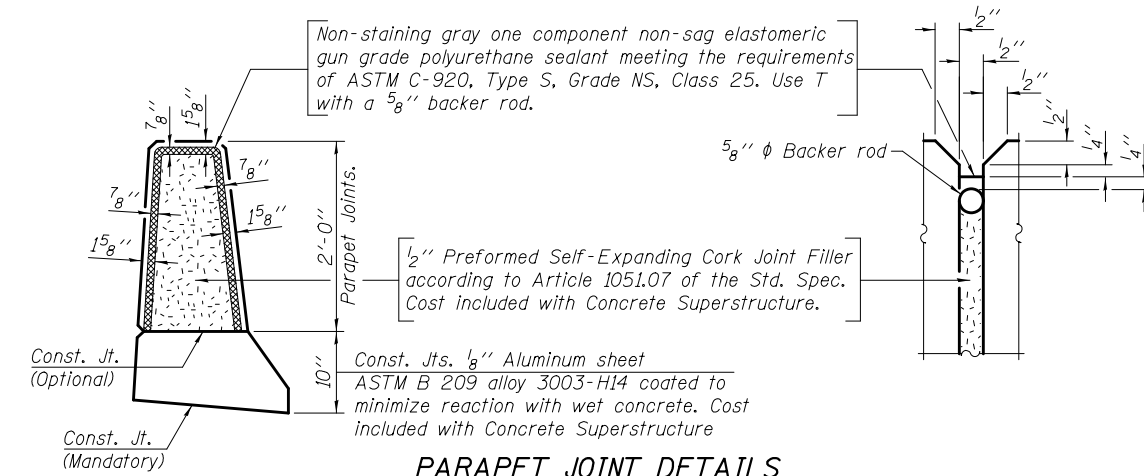


SECTION THRU PARAPET

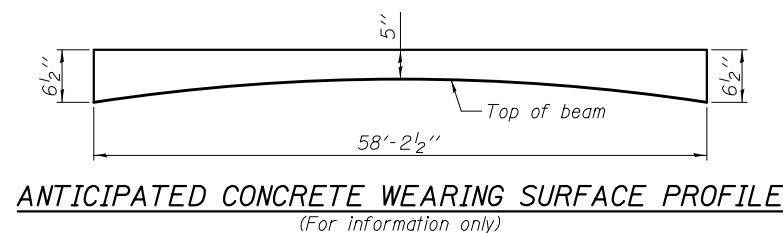
* Place #4 D(E) bars at 9" cts. (along ϕ beam) in fascia beam. The D(E) bars shall be oriented along the skew. D(E) bar included in cost of beam.



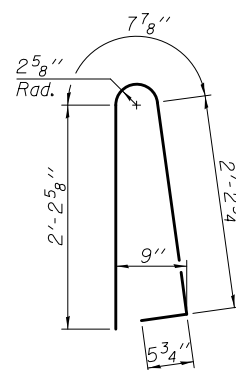
SECTION A-A
(Dimensions are at Rt. L's)



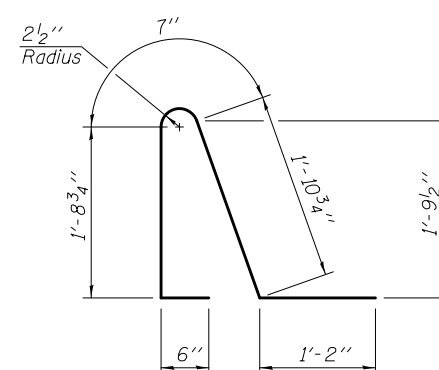
PARAPET JOINT DETAILS



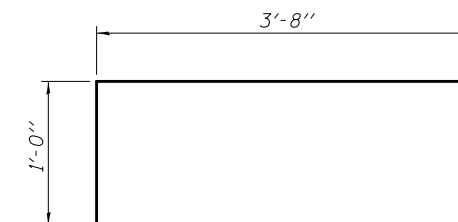
ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)



BAR d(E)



BAR d1(E)



BAR D(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	118	#4	26'-0"	—
a1(E)	116	#4	6'-0"	—
b(E)	153	#4	21'-1"	—
d(E)	128	#5	5'-7"	⏏
d1(E)	128	#5	5'-11"	⏏
e(E)	28	#4	14'-3"	—
e1(E)	4	#8	31'-7"	—
e2(E)	6	#4	20'-8"	—
e3(E)	14	#4	13'-10"	—
e4(E)	14	#4	14'-5"	—
Reinforcement Bars, Epoxy Coated			Pound	7,160
Concrete Superstructure			Cu. Yd.	12.9
Concrete Wearing Surface, 5"			Sq. Yd.	310.4

Bars indicated thus 1 x 3-#4 etc. Indicates 1 line of bars with 3 lengths per line.

SDATES STIMES

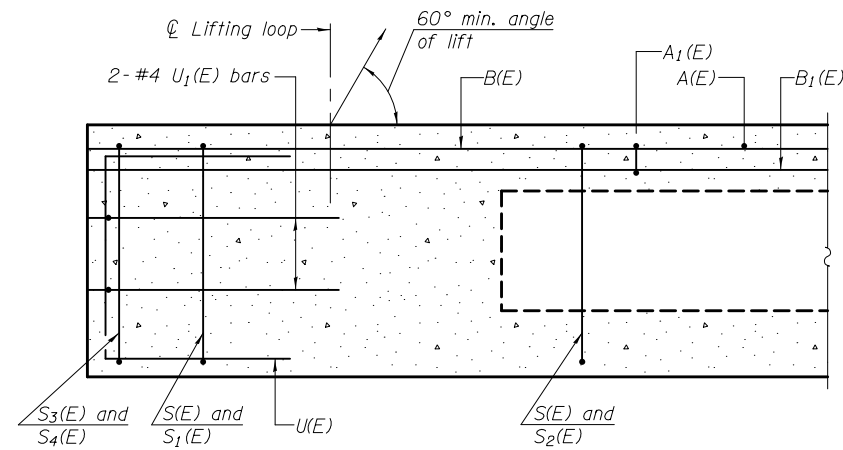
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Jaime F. Joffe</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl Rupp</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

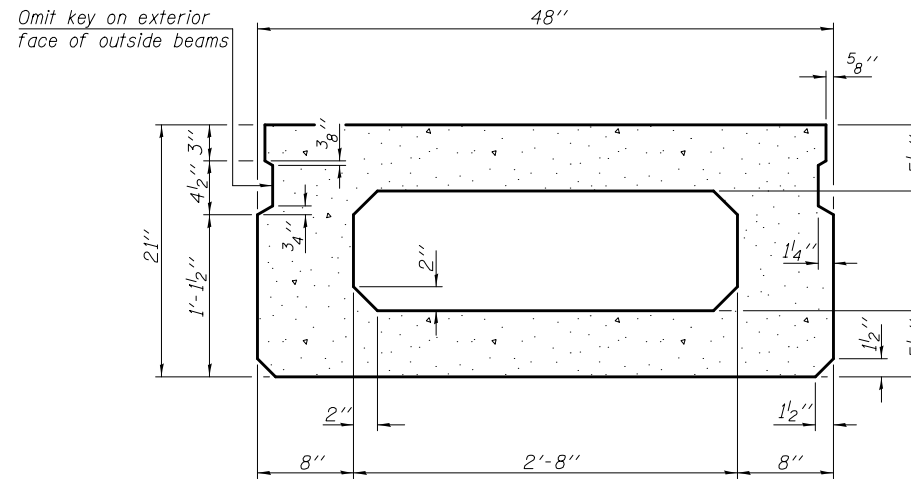
SUPERSTRUCTURE DETAILS STRUCTURE NO. 037 - 0197

SHEET NO. 7 OF 27 SHEETS

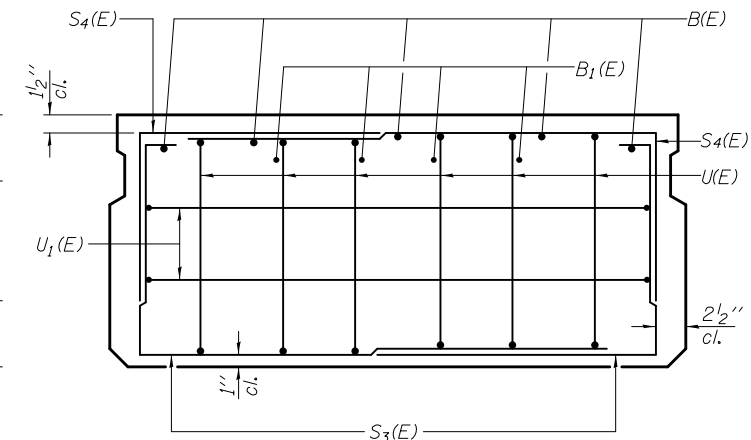
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	50
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



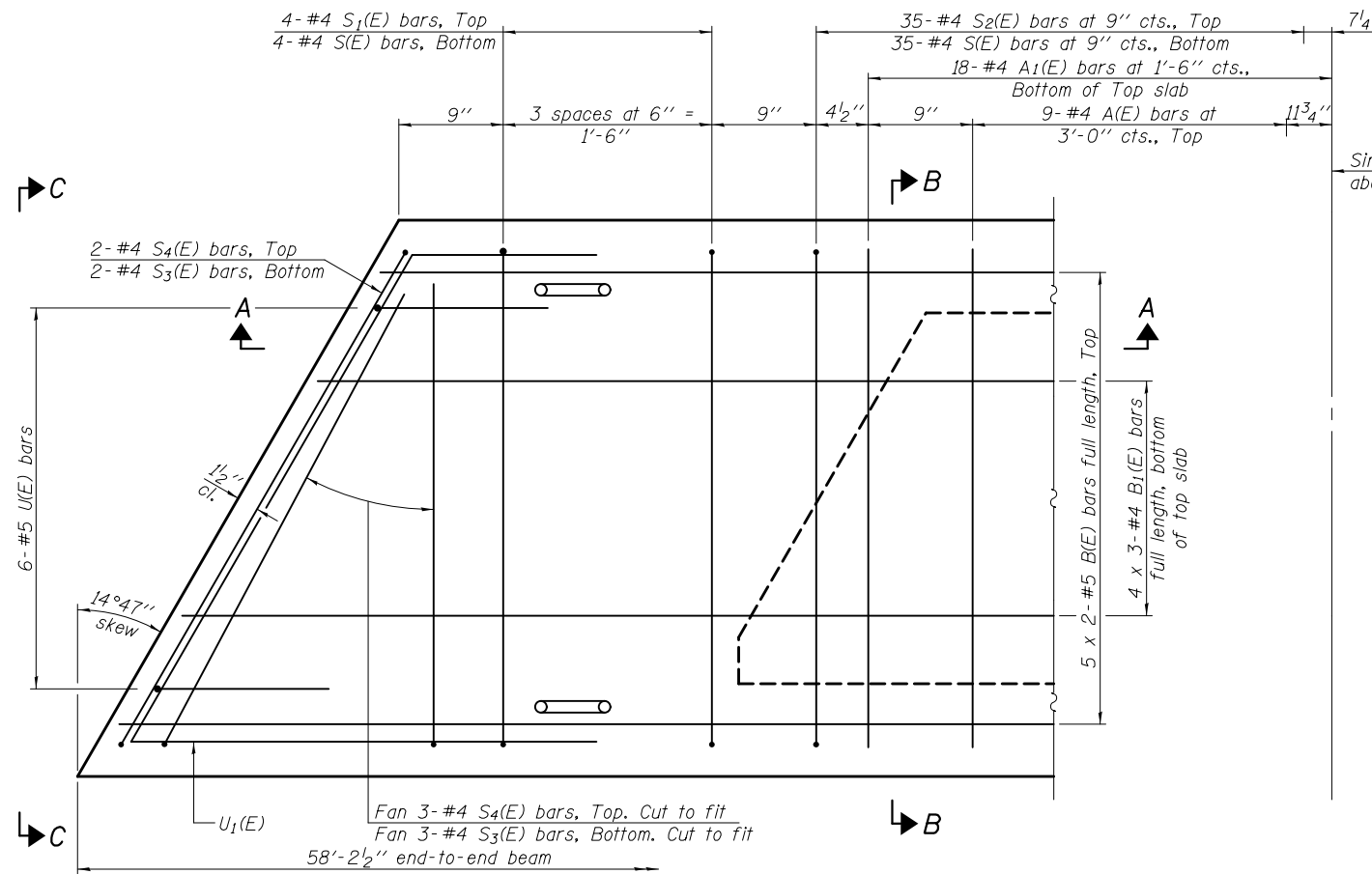
SECTION A-A



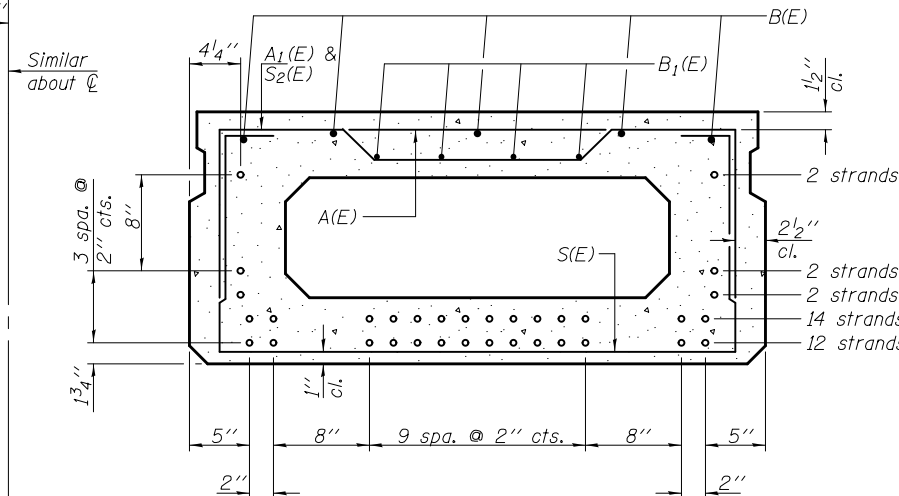
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	3'-7"	—
A1(E)	35	#4	3'-10"	—
B(E)	10	#5	30'-3"	—
B1(E)	12	#4	20'-8"	—
S(E)	78	#4	7'-5"	—
S1(E)	8	#4	5'-11"	┌
S2(E)	70	#4	6'-2"	┌
S3(E)	10	#4	4'-10"	┌
S4(E)	10	#4	4'-1"	┌
U(E)	12	#5	4'-0"	┌
U1(E)	4	#4	7'-1"	┌

Note: See sheet 9 of 27 for additional details and Bill of Material.

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

SDATES \$TIMES

PD-2148-L 7-1-10

DESIGNED - DAVID H. RICHTER	EXAMINED	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED	REVISOR
DRAWN - MICHAEL B. MOSSMAN		REVISOR
CHECKED - D.H.R. / N.R.B. / G.R.A.		

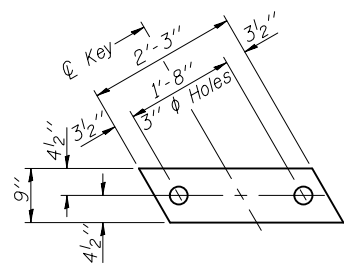
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO. 037 - 0197

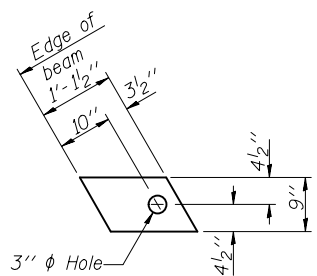
SHEET NO. 8 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	51
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT



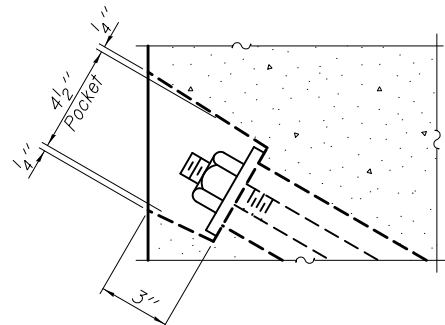
FABRIC BEARING PAD
(Interior)



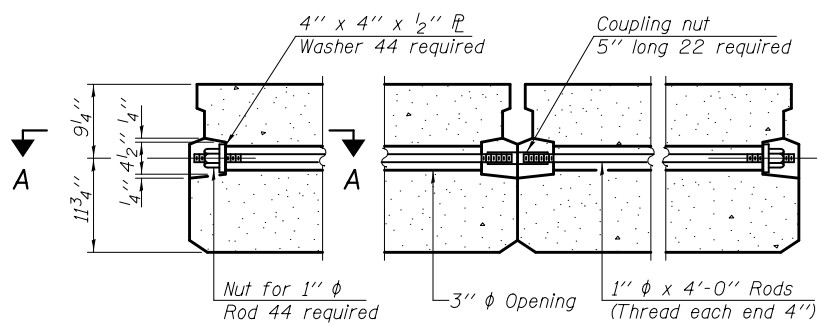
FABRIC BEARING PAD
(Exterior)

FIXED

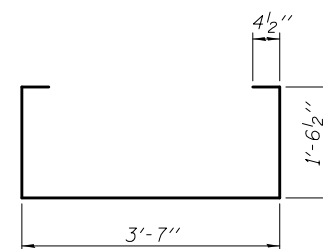
Note:
All bearing pads shall be 1" thick.



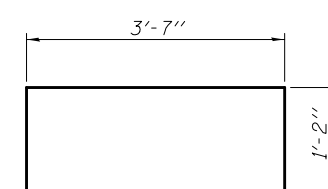
SECTION A-A



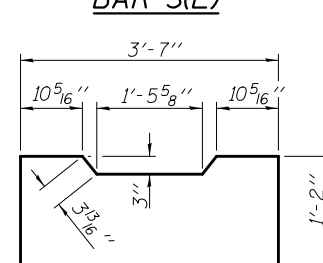
TYPICAL TRANSVERSE TIE ASSEMBLY



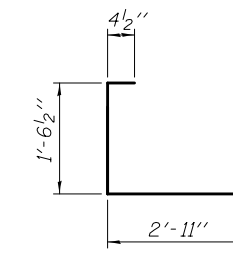
BAR S(E)



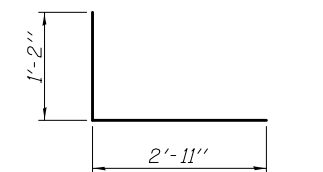
BAR S1(E)



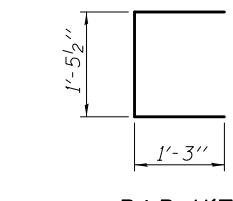
BAR S2(E)



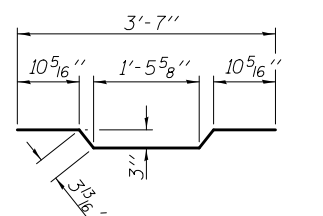
BAR S3(E)



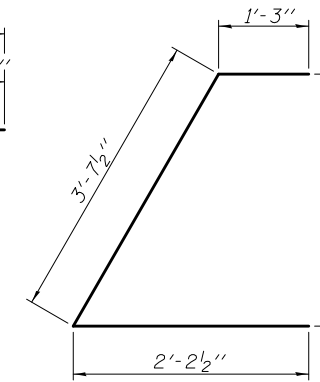
BAR S4(E)



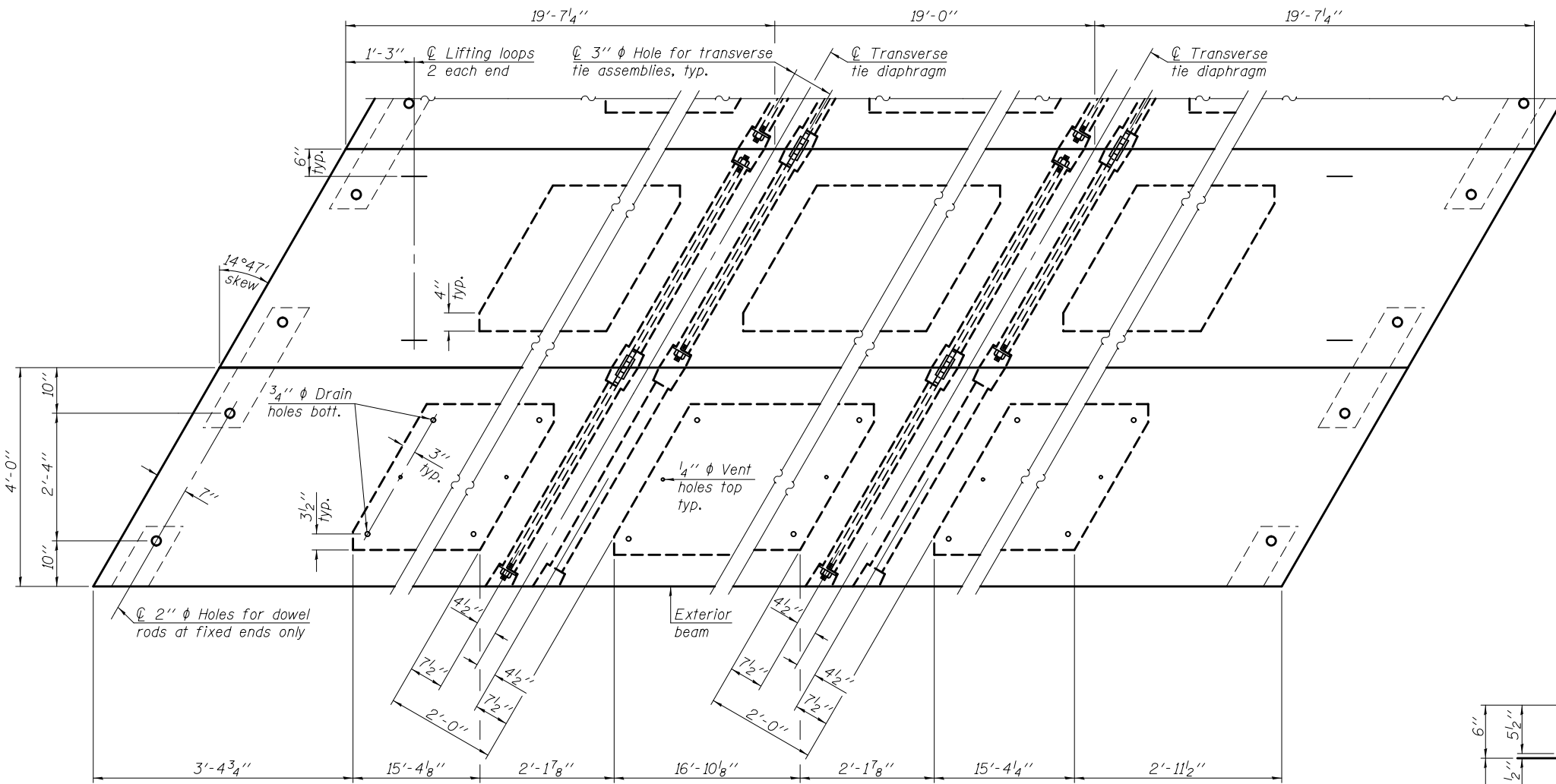
BAR U(E)



BAR A1(E)



BAR U1(E)



PLAN

NOTES

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. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 5/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

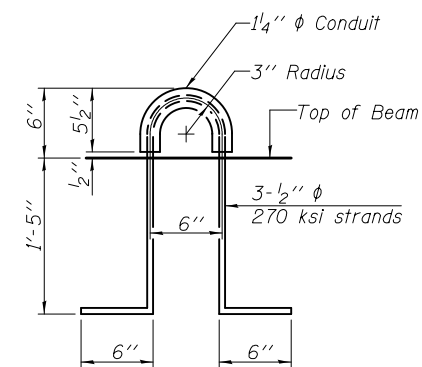
A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, $f'c$, shall be 7000 psi.

Compressive strength of prestressed concrete at release, $f'ci$, shall be 6000 psi.

Note: Connect beams in pairs with the transverse tie configuration shown.



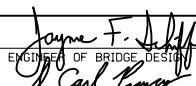

LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	2,794
---	---------	-------

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - NICHOLAS R. BARNETT	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - D.H.R. / N.R.B. / G.R.A.	


 ENGINEER OF BRIDGE DESIGN

 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

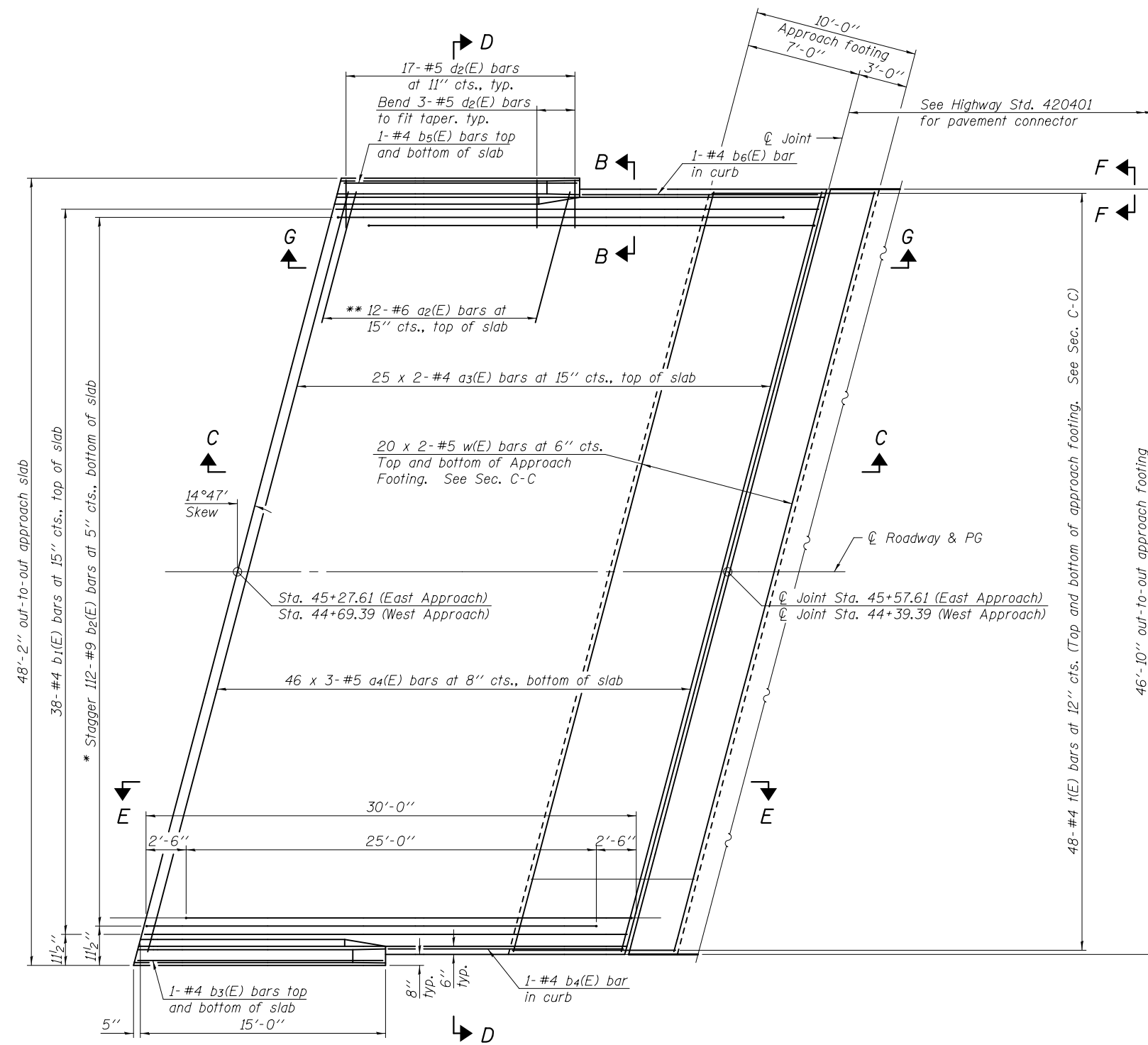
21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 037 - 0197

SHEET NO. 9 OF 27 SHEETS

F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 52
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 11 of 27 for Sections C-C & D-D, View E-E, and View G-G.
 a3(E) and a4(E) bar spacings measured along $\text{C} \perp$ Rdwy.
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $1\frac{1}{2}$ " for installation purposes.

*** Cost included with Concrete Superstructure.



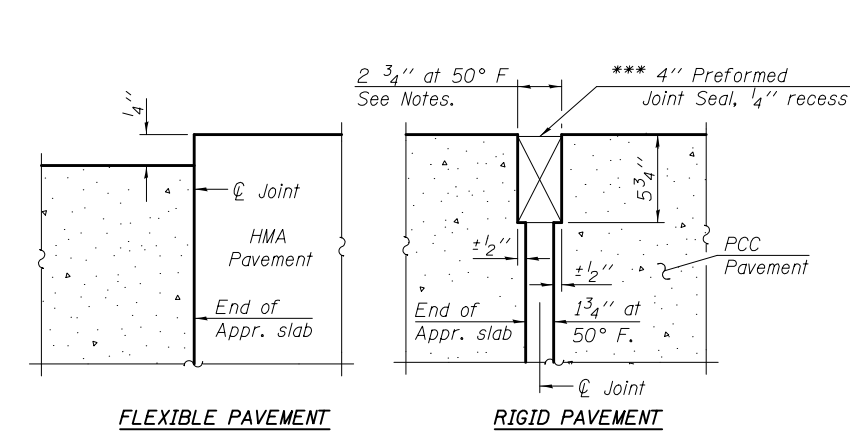
PLAN

(East approach shown - West approach similar by 180° rotation)

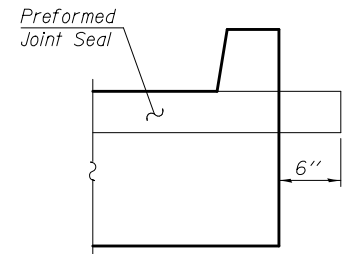
- * Tilt #9 b2(E) bars as required to maintain clearance.
- ** Space between a3(E) bars, typ. each parapet.

MINIMUM BAR LAP

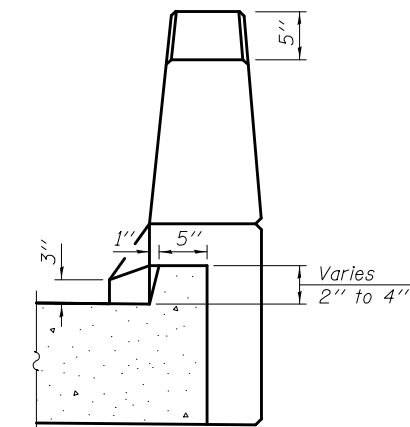
- #4 bar = 2'-7"
- #5 bar = 3'-3"



DETAIL A



VIEW F-F



VIEW B-B

(Sheet 1 of 2)

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>James F. J...</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVISED -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

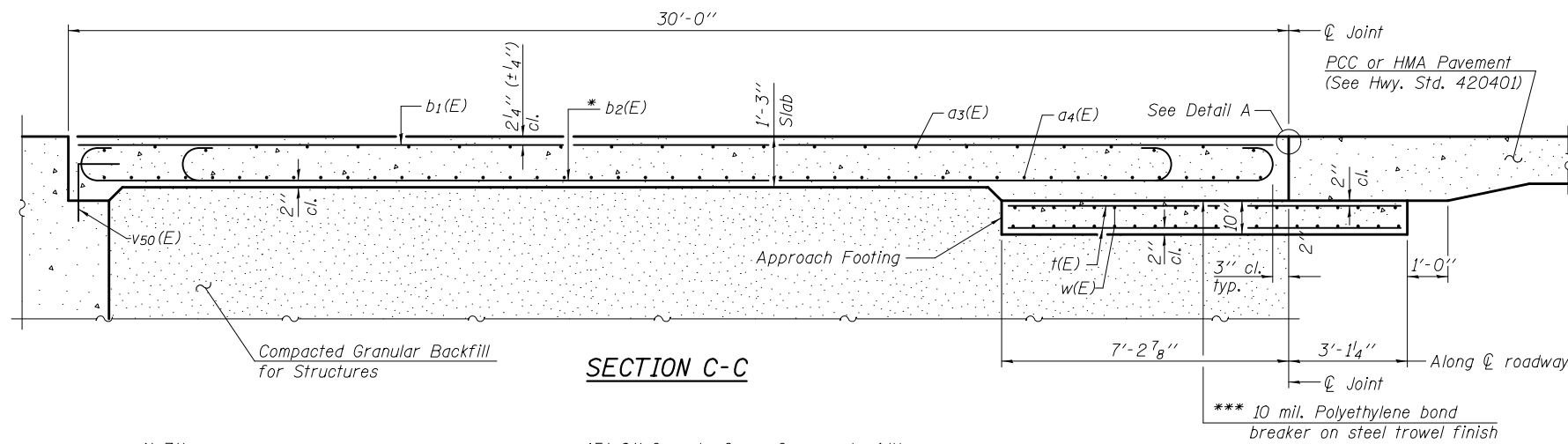
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 037 - 0197**

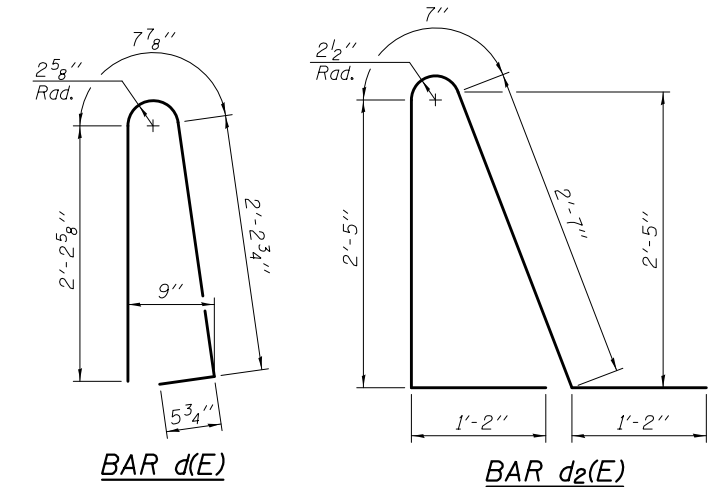
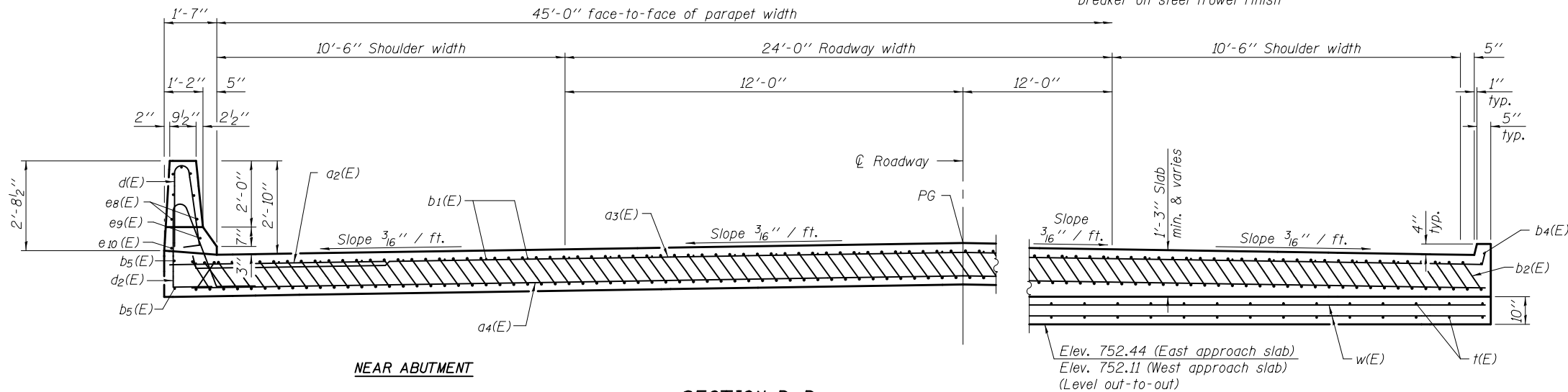
SHEET NO. 10 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	53
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT



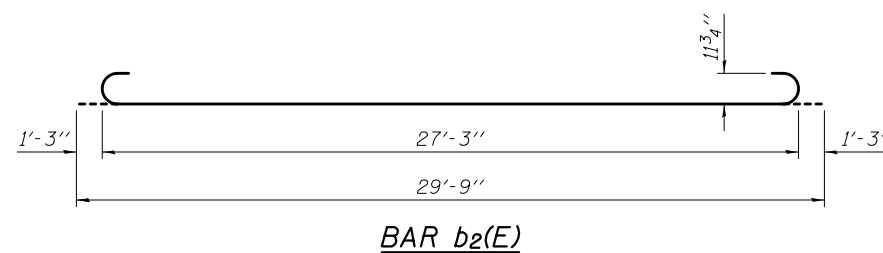
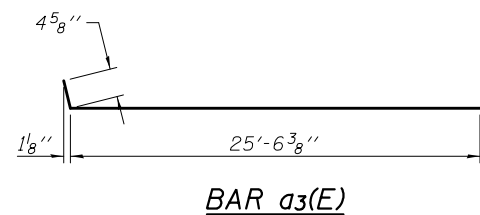
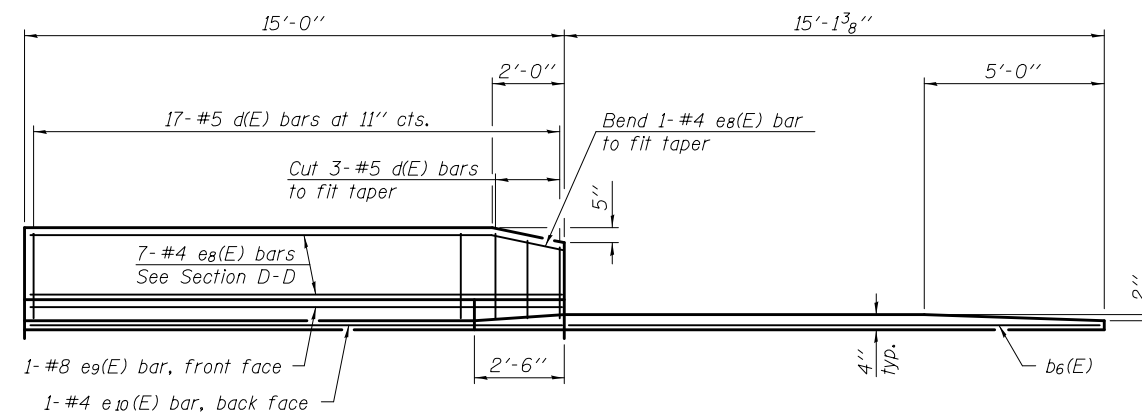
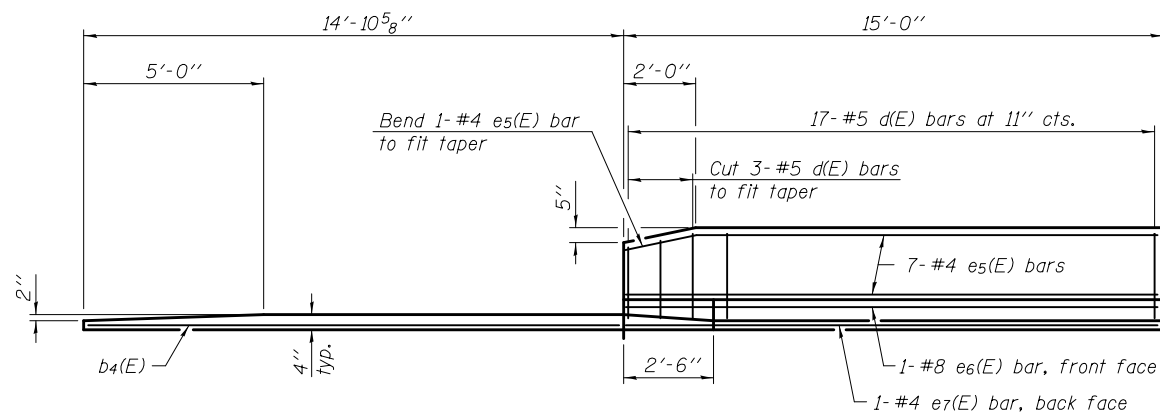
Notes:
 See sheet 10 of 27 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v50(E) bar details, see sheets 17 and 23 of 27.
 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 27.
 For additional parapet details, see sheet 10 of 27.



* Tilt #9 b2(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	—
a3(E)	100	#4	25'-11"	—
a4(E)	276	#5	18'-3"	—
b1(E)	76	#4	29'-8"	—
b2(E)	224	#9	29'-9"	—
b3(E)	4	#4	15'-0"	—
b4(E)	2	#4	14'-4"	—
b5(E)	4	#4	14'-3"	—
b6(E)	2	#4	14'-8"	—
d(E)	68	#5	5'-7"	—
d2(E)	68	#5	7'-11"	—
e5(E)	14	#4	14'-10"	—
e6(E)	2	#8	14'-10"	—
e7(E)	2	#4	15'-0"	—
e8(E)	14	#4	14'-5"	—
e9(E)	2	#8	14'-5"	—
e10(E)	2	#4	14'-3"	—
t(E)	192	#4	10'-0"	—
w(E)	160	#5	25'-9"	—
Concrete Superstructure		Cu. Yd.	152.4	
Concrete Structures		Cu. Yd.	29.9	
Reinforcement Bars, Epoxy Coated		Pound	38,740	



SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J...</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVISED -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

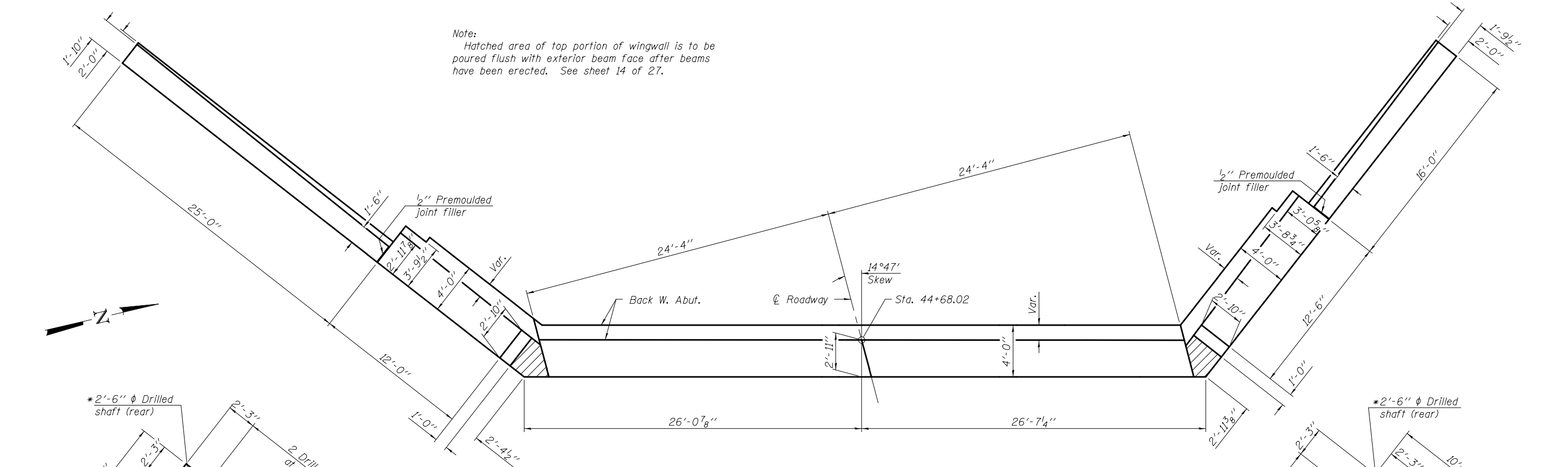
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 037 - 0197

(Sheet 2 of 2)

SHEET NO. 11 OF 27 SHEETS

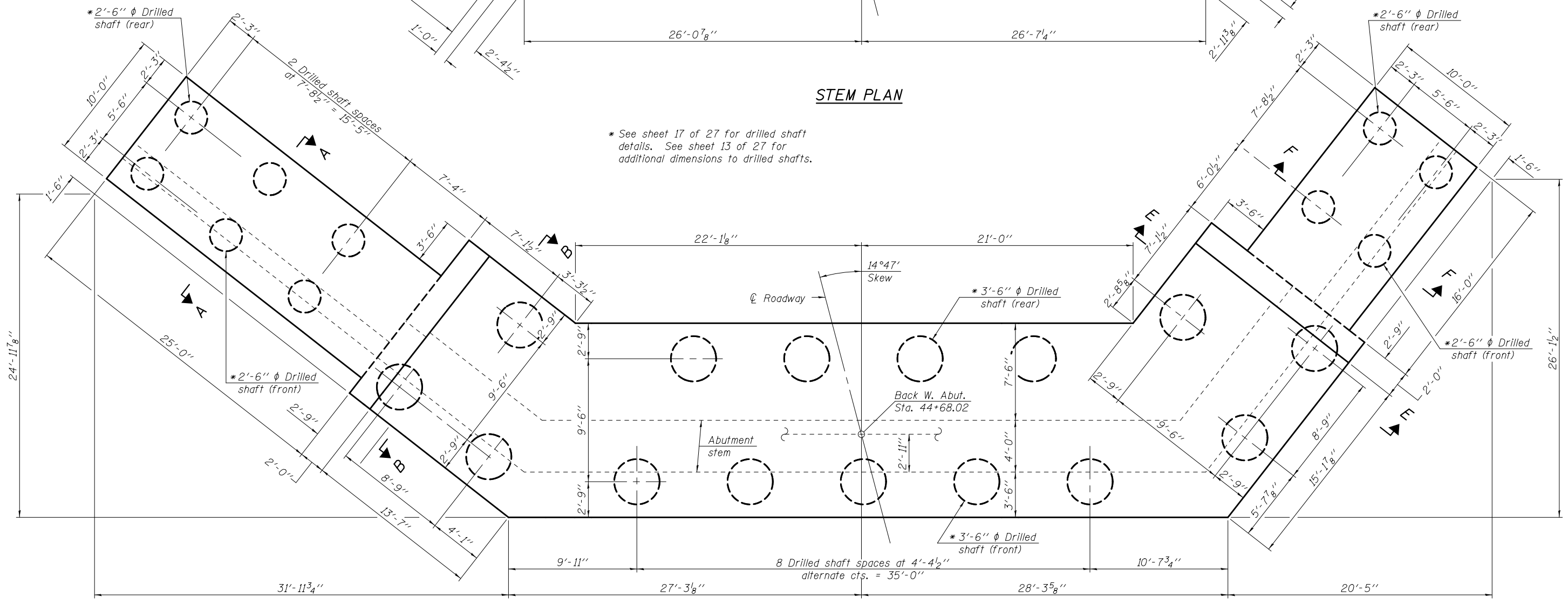
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	54
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

Note:
Hatched area of top portion of wingwall is to be poured flush with exterior beam face after beams have been erected. See sheet 14 of 27.



STEM PLAN

* See sheet 17 of 27 for drilled shaft details. See sheet 13 of 27 for additional dimensions to drilled shafts.



FOOTING PLAN

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED
PASSED

 ACTING ENGINEER OF BRIDGES AND STRUCTURES

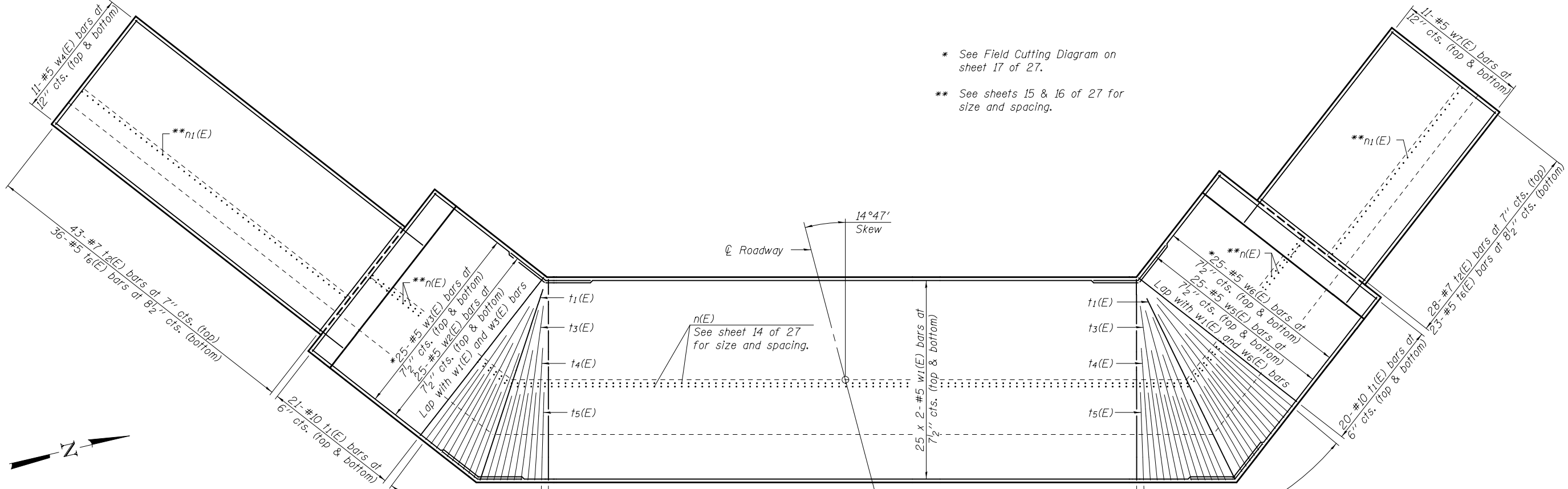
DATE - OCTOBER 1, 2015
REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT GEOMETRY
STRUCTURE NO. 037 - 0197**

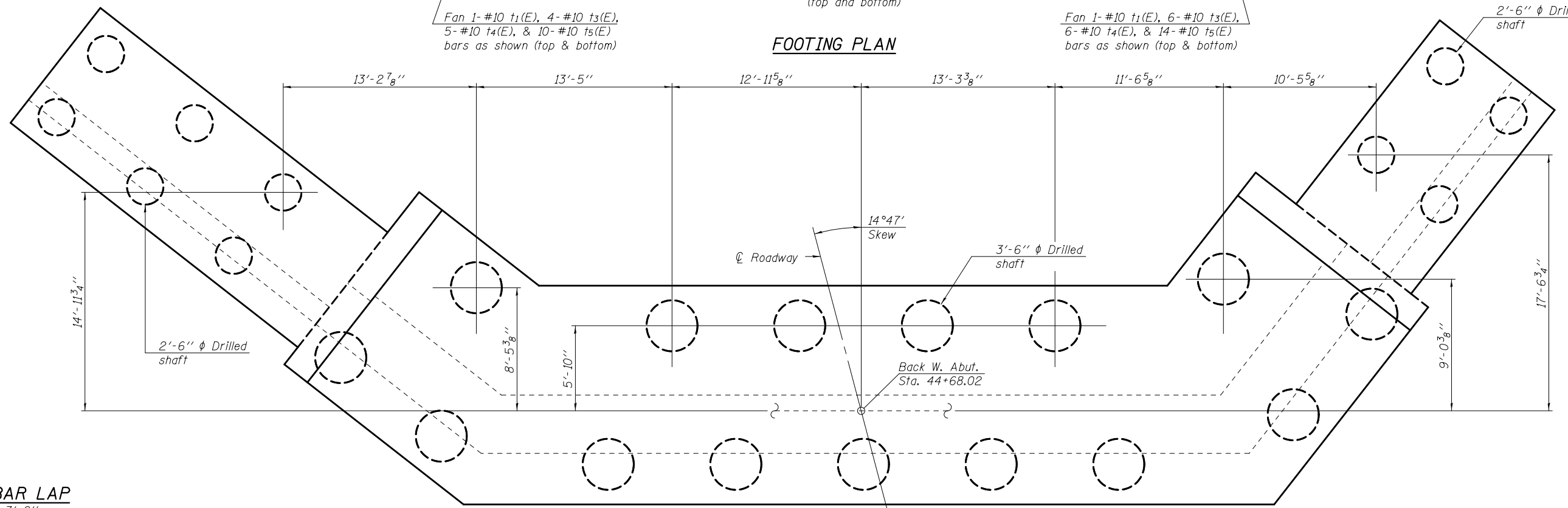
SHEET NO. 12 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	55
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



* See Field Cutting Diagram on sheet 17 of 27.
 ** See sheets 15 & 16 of 27 for size and spacing.

FOOTING PLAN
 87-#10 t1(E) bars at 6" cts. (top and bottom)
 Fan 1-#10 t1(E), 4-#10 t3(E), 5-#10 t4(E), & 10-#10 t5(E) bars as shown (top & bottom)
 Fan 1-#10 t1(E), 6-#10 t3(E), 6-#10 t4(E), & 14-#10 t5(E) bars as shown (top & bottom)



FOOTING PLAN

MINIMUM BAR LAP
 #5 Bar = 3'-8"

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
 CHECKED - NICHOLAS R. BARNETT
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
 REVISED
 REVISED

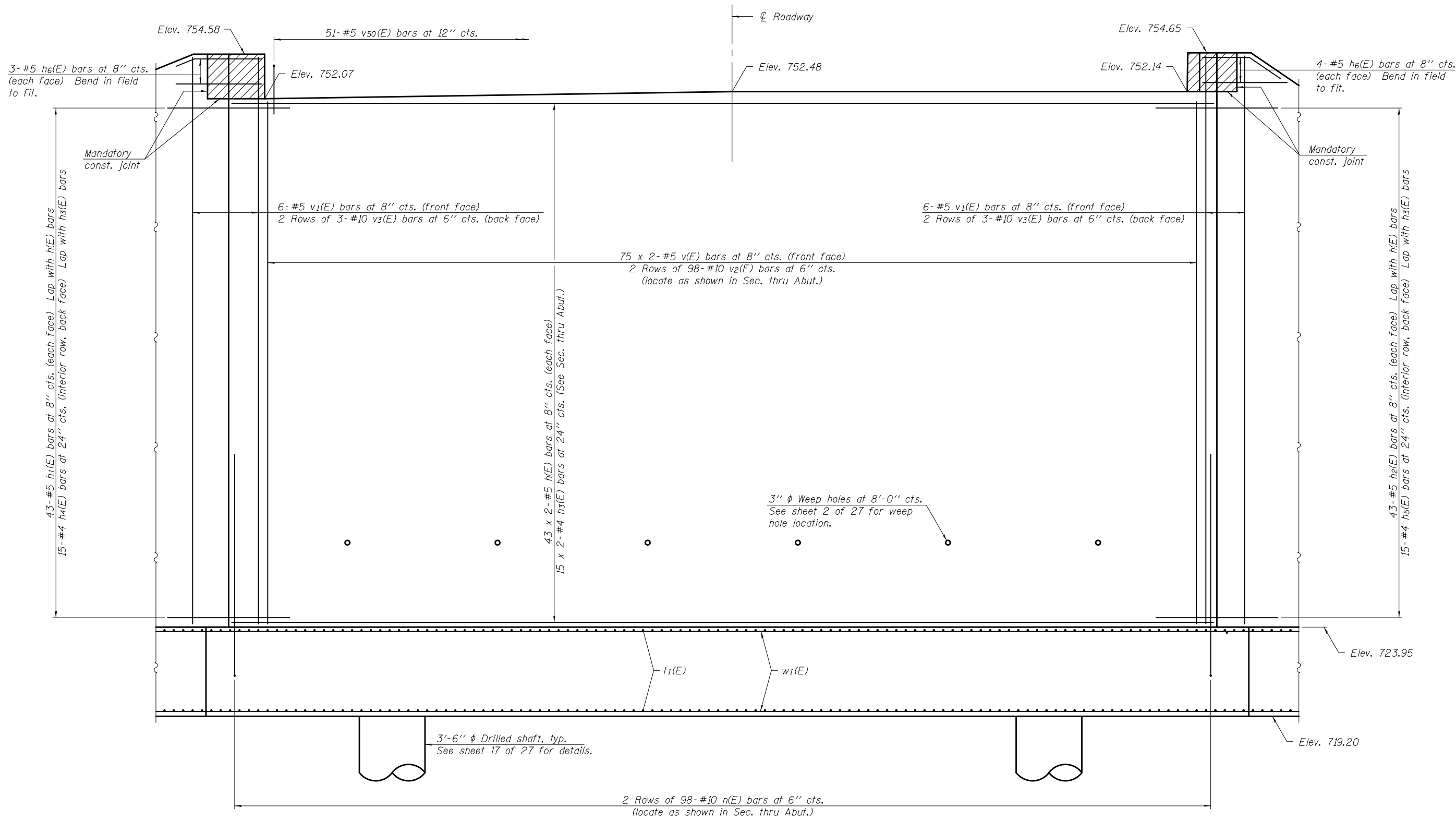
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT FOOTING GEOMETRY AND REINFORCEMENT
 STRUCTURE NO. 037 - 0197

SHEET NO. 13 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	56
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT



MINIMUM BAR LAP
 #4 bar = 2'-4"
 #5 bar = 3'-3"
 #10 bar = 8'-8"

ELEVATION
 (Looking West)

Note:
 See sheet 17 of 27 for
 Section thru Abutment.

SDATES \$TIMES

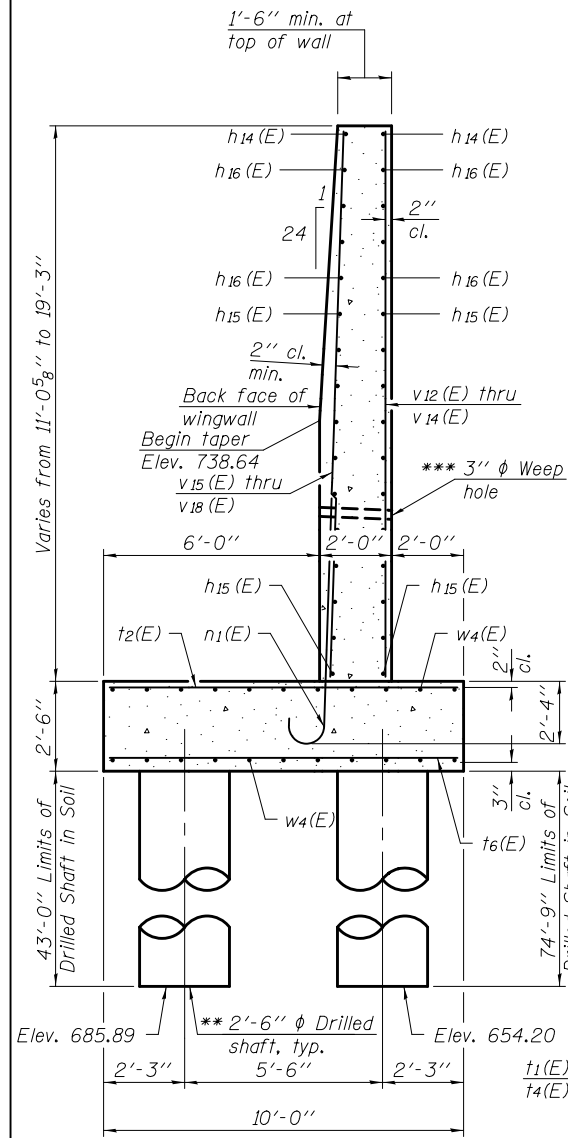
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J...</i>	DATE - OCTOBER 1, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT STEM ELEVATION STRUCTURE NO. 037 - 0197	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVISED -			223	101 VBR	HENRY	139	57	
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 64F84					
CHECKED - D.H.R. / N.R.B. / G.R.A.					SHEET NO. 14 OF 27 SHEETS					

ILLINOIS FED. AID PROJECT

* See Field Cutting Diagram on sheet 17 of 27.

** See sheet 17 of 27 for drilled shaft details.

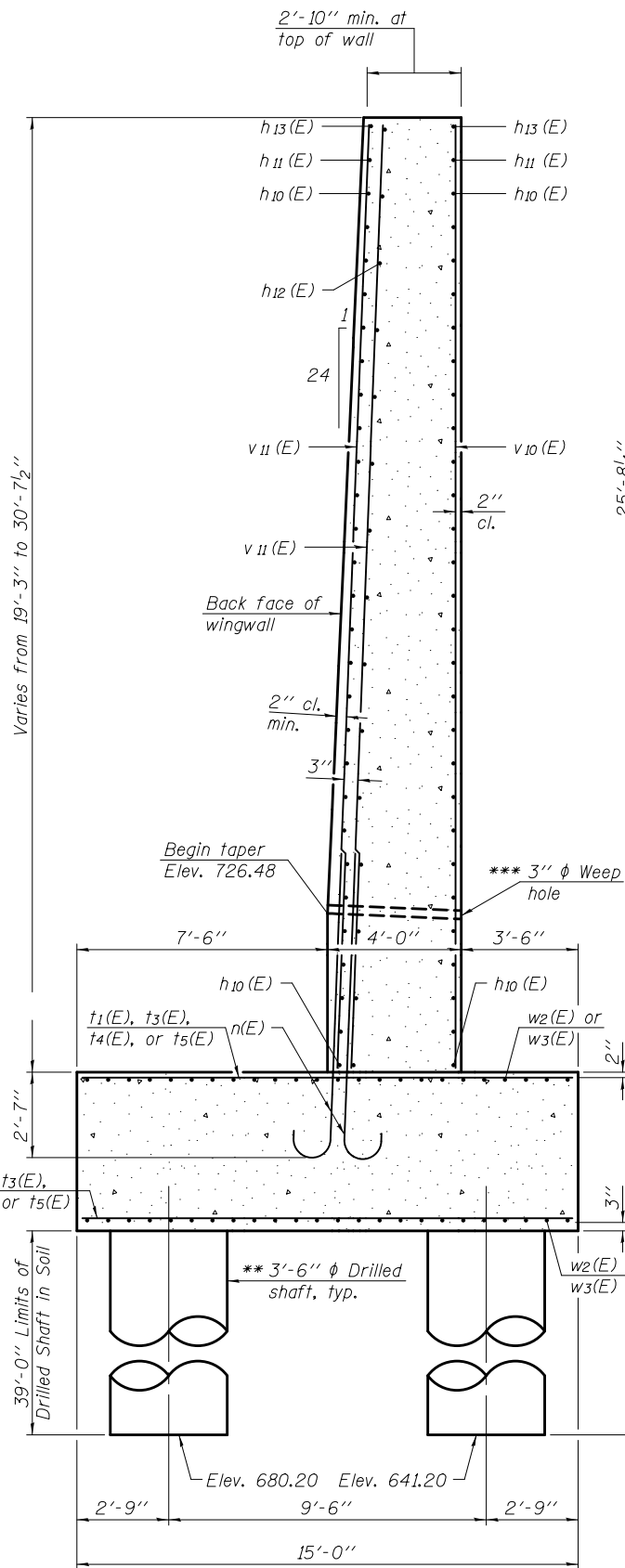
*** See sheet 2 of 27 for weep hole location.



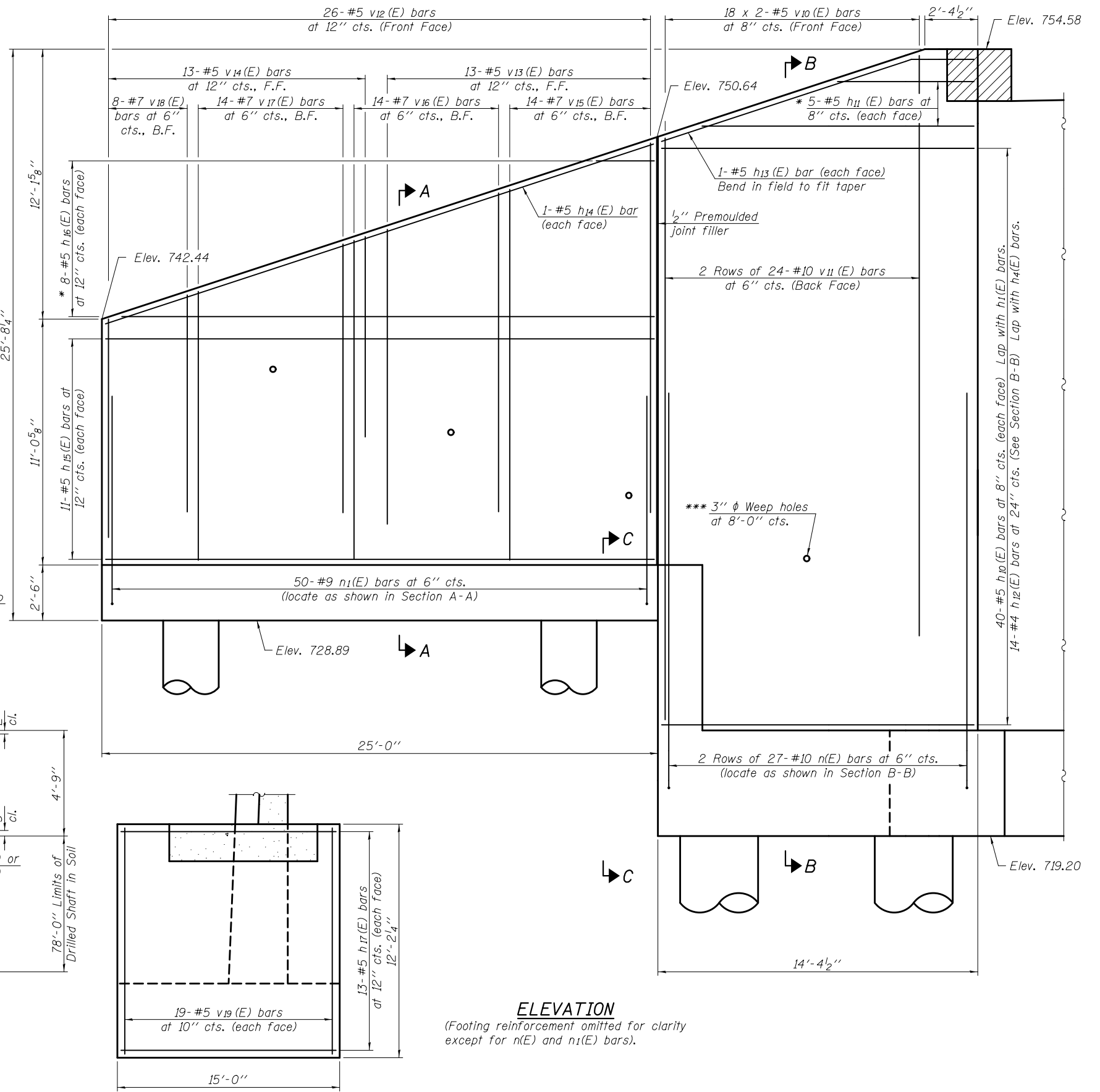
SECTION A-A

MINIMUM BAR LAP

- #5 bar = 3'-3"
- #7 bar = 5'-2"
- #10 bar = 10'-10"



SECTION B-B



ELEVATION

(Footing reinforcement omitted for clarity except for n(E) and n1(E) bars).

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

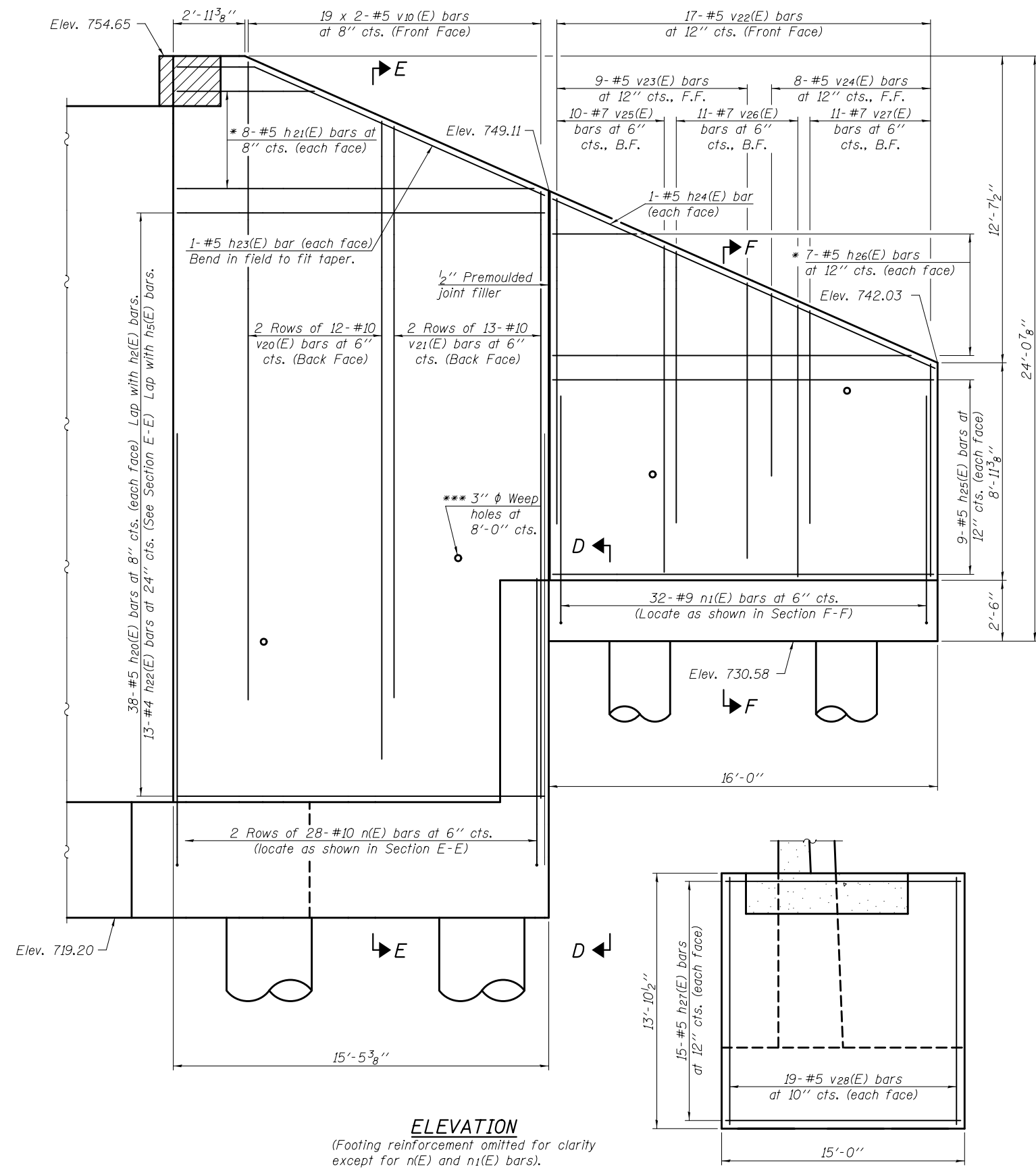
DATE - OCTOBER 1, 2015
REVISOR -
REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT - SOUTH WINGWALL DETAILS
STRUCTURE NO. 037 - 0197

SHEET NO. 15 OF 27 SHEETS

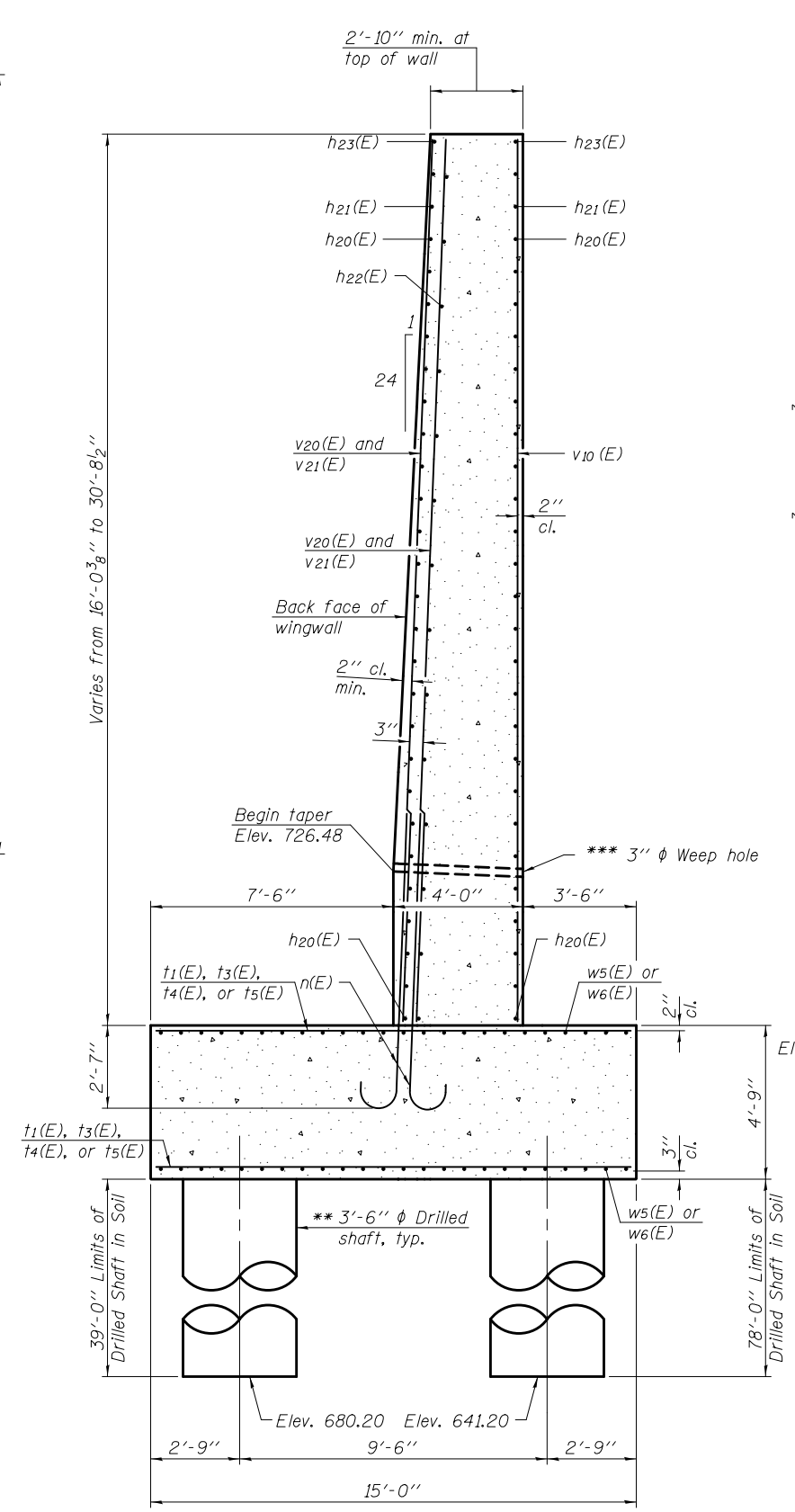
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	58
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



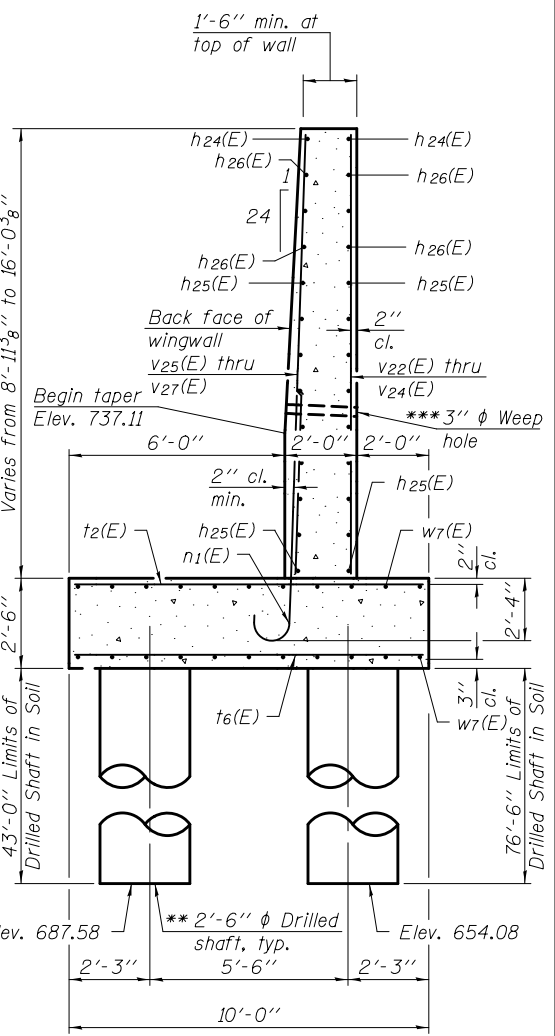
ELEVATION

(Footing reinforcement omitted for clarity except for n(E) and n1(E) bars).

VIEW D-D



SECTION E-E



SECTION F-F

MINIMUM BAR LAP

- #5 bar = 3'-3"
- #7 bar = 5'-2"
- #10 bar = 10'-10"

* See Field Cutting Diagram on sheet 17 of 27.
 ** See sheet 17 of 27 for drilled shaft details.
 *** See sheet 2 of 27 for weep hole location.

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>James F. J...</i>
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - D.H.R. / N.R.B. / G.R.A.	

DATE - OCTOBER 1, 2015
 ENGINEER OF BRIDGES AND STRUCTURES
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

REVISD -	
REVISD -	

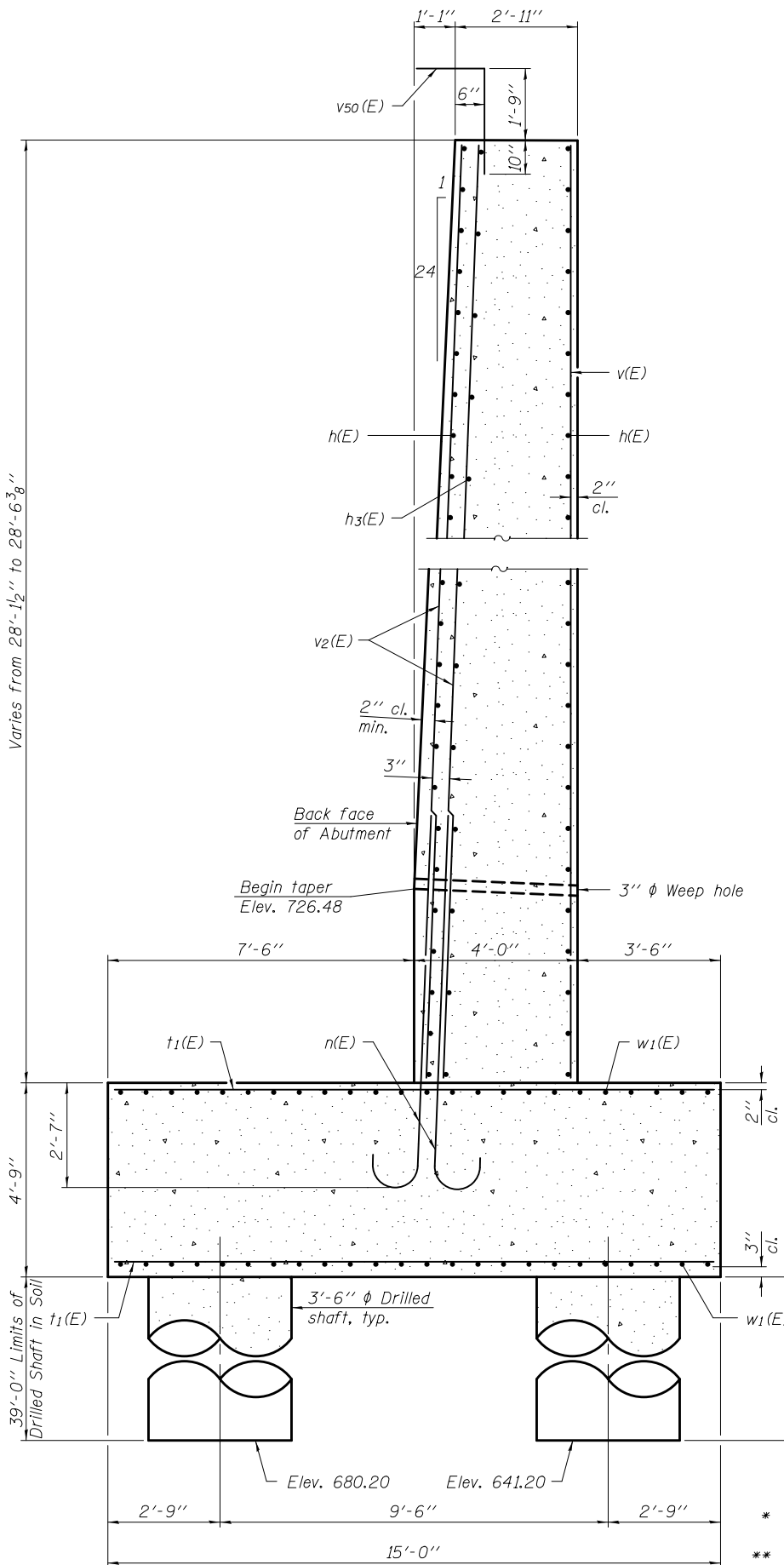
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT - NORTH WINGWALL DETAILS
 STRUCTURE NO. 037 - 0197**

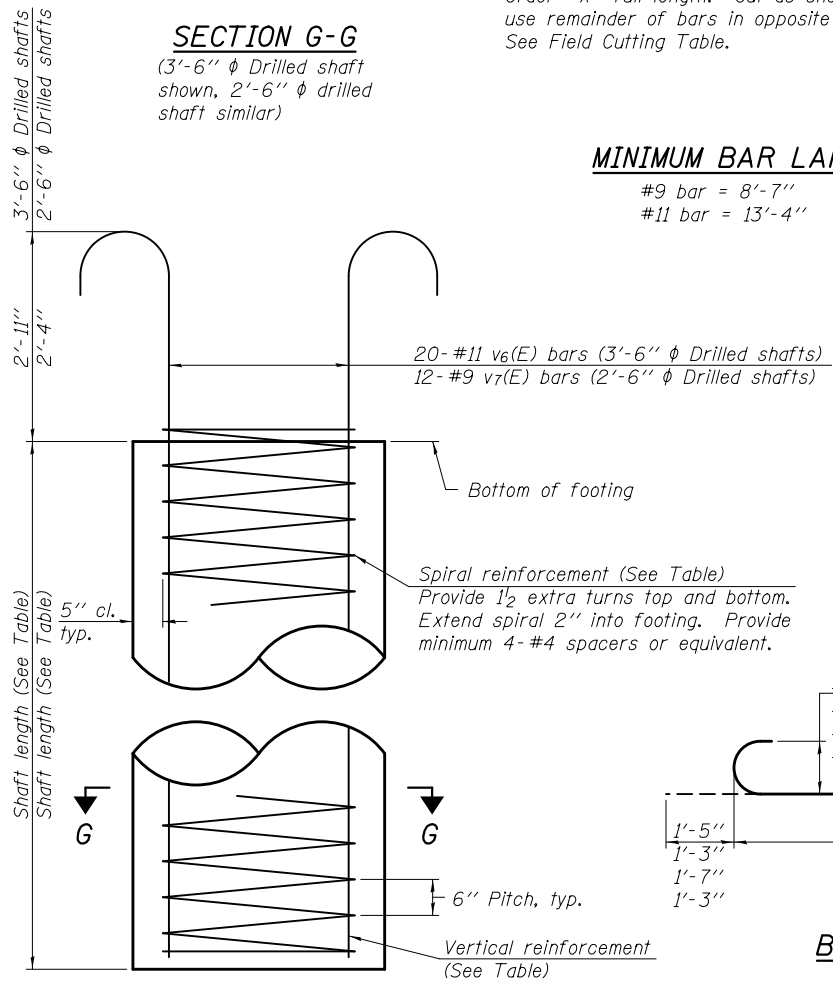
SHEET NO. 16 OF 27 SHEETS

F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 59
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

Varies from 28'-1 1/2" to 28'-6 3/8"

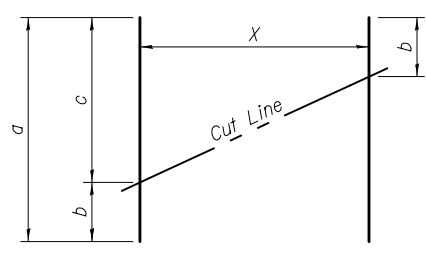


SECTION THRU ABUTMENT
(Dimensions are at right angles to abutment)



DRILLED SHAFT DETAILS

* Bars are lapped with v7(E) bars.
** Bars are lapped with v6(E) bars.
*** Length is height of spiral.

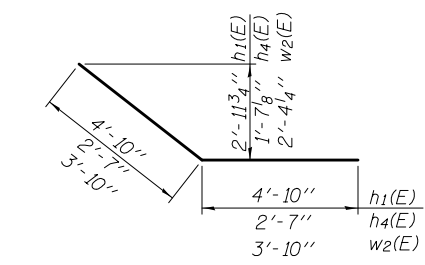


FIELD CUTTING DIAGRAM
Order "X" full length. Cut as shown and use remainder of bars in opposite face. See Field Cutting Table.

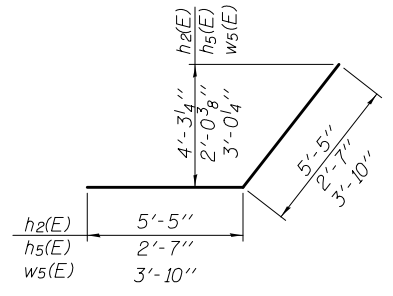
MINIMUM BAR LAP
#9 bar = 8'-7"
#11 bar = 13'-4"

FIELD CUTTING TABLE

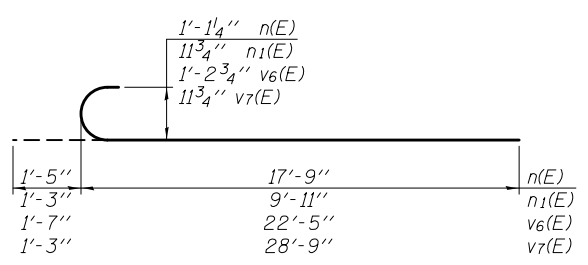
X	a	b	c
5-h11(E) bars	15'-6"	3'-8"	11'-10"
8-h16(E) bars	26'-6"	2'-7"	23'-11"
8-h21(E) bars	13'-8"	1'-7"	12'-1"
7-h26(E) bars	16'-3"	1'-4"	14'-11"
25-w3(E) bars	25'-4"	10'-2"	15'-2"
25-w6(E) bars	26'-4"	9'-7"	16'-9"



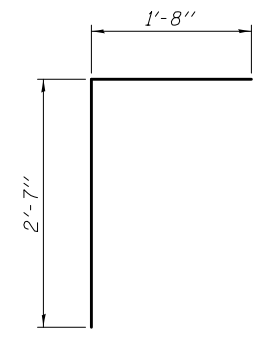
BARS h1(E), h4(E), & w2(E)



BARS h2(E), h5(E), & w5(E)



BARS n(E), n1(E), v6(E) & v7(E)



BAR v50(E)

Note:
In order to satisfy the axial resistance requirements for the 3'-6" diameter shafts in the front row, the bottoms of the shafts shall be founded no higher than Elevation 641.20 and bear in dense granular material. This granular material consists of very dense sand, as shown to occur in Boring B-2b below Elevation 643.00. Should this dense granular material not be encountered at the base of the shaft excavation at Elevation 641.20 during construction, the Contractor shall deepen the shafts so that they extend into the dense granular material.

TABLE

Location	Total No. Shafts	Shaft Length	Spiral Reinforcement (per Shaft)	Vertical Reinforcement (per Shaft)
SW Wingwall (2'-6" φ Front Shaft)	3	74'-9"	#5 sp2(E) Spiral	12 x 3- #9 v8(E) bars *
SW Wingwall (2'-6" φ Rear Shaft)	3	43'-0"	#5 sp3(E) Spiral	12- #9 v8(E) bars *
W. Abut. (3'-6" φ Front Shaft)	9	78'-0"	#5 sp(E) Spiral	20 x 3- #11 v9(E) bars **
W. Abut. (3'-6" φ Rear Shaft)	6	39'-0"	#5 sp1(E) Spiral	20- #11 v9(E) bars **
NW Wingwall (2'-6" φ Front Shaft)	2	76'-6"	#5 sp4(E) Spiral	12 x 3- #9 v8(E) bars *
NW Wingwall (2'-6" φ Rear Shaft)	2	43'-0"	#5 sp3(E) Spiral	12- #9 v8(E) bars *

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	172	#5	27'-10"	
h1(E)	86	#5	9'-8"	
h2(E)	86	#5	10'-10"	
h3(E)	30	#4	27'-5"	
h4(E)	15	#4	5'-2"	
h5(E)	15	#4	5'-2"	
h6(E)	14	#5	5'-4"	
h10(E)	80	#5	12'-8"	
h11(E)	5	#5	15'-6"	
h12(E)	14	#4	12'-9"	
h13(E)	2	#5	13'-3"	
h14(E)	2	#5	26'-0"	
h15(E)	22	#5	24'-8"	
h16(E)	8	#5	26'-6"	
h17(E)	26	#5	14'-8"	
h20(E)	76	#5	13'-2"	
h21(E)	8	#5	13'-8"	
h22(E)	13	#4	13'-4"	
h23(E)	2	#5	14'-4"	
h24(E)	2	#5	17'-1"	
h25(E)	18	#5	15'-8"	
h26(E)	7	#5	16'-3"	
h27(E)	30	#5	14'-8"	
n(E)	306	#10	19'-2"	
n1(E)	82	#9	11'-2"	
sp(E)	9	#5	78'-0"	
sp1(E)	6	#5	39'-0"	
sp2(E)	3	#5	74'-9"	
sp3(E)	5	#5	43'-0"	
sp4(E)	2	#5	76'-6"	
t1(E)	260	#10	14'-8"	
t2(E)	71	#7	9'-8"	
t3(E)	20	#10	12'-10"	
t4(E)	22	#10	9'-8"	
t5(E)	48	#10	6'-5"	
t6(E)	59	#5	9'-8"	
v(E)	150	#5	15'-9"	
v1(E)	12	#5	30'-3"	
v2(E)	196	#10	21'-11"	
v3(E)	12	#10	30'-3"	
v6(E)	300	#11	24'-0"	
v7(E)	120	#9	30'-0"	
v8(E)	240	#9	25'-3"	
v9(E)	660	#11	32'-10"	
v10(E)	74	#5	16'-10"	
v11(E)	48	#10	26'-1"	
v12(E)	26	#5	8'-11"	
v13(E)	13	#5	13'-3"	
v14(E)	13	#5	9'-0"	
v15(E)	14	#7	16'-8"	
v16(E)	14	#7	14'-4"	
v17(E)	14	#7	12'-1"	
v18(E)	8	#7	9'-9"	
v19(E)	38	#5	11'-10"	
v20(E)	24	#10	26'-3"	
v21(E)	26	#10	23'-6"	
v22(E)	17	#5	7'-7"	
v23(E)	9	#5	11'-4"	
v24(E)	8	#5	7'-6"	
v25(E)	10	#7	13'-5"	
v26(E)	11	#7	11'-2"	
v27(E)	11	#7	8'-9"	
v28(E)	38	#5	13'-6"	
v50(E)	51	#5	4'-3"	
w1(E)	100	#5	29'-6"	
w2(E)	50	#5	7'-8"	
w3(E)	25	#5	25'-4"	
w4(E)	22	#5	26'-8"	
w5(E)	50	#5	7'-8"	
w6(E)	25	#5	26'-4"	
w7(E)	22	#5	17'-8"	
Structure Excavation		Cu. Yd.	746	
Concrete Structures		Cu. Yd.	584.4	
Reinforcement Bars, Epoxy Coated		Pound	317,000	
Drilled Shaft in Soil		Cu. Yd.	441.2	

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED - *Joanne F. J. [Signature]*
PASSED - *Carl [Signature]*
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED -
REVISED -

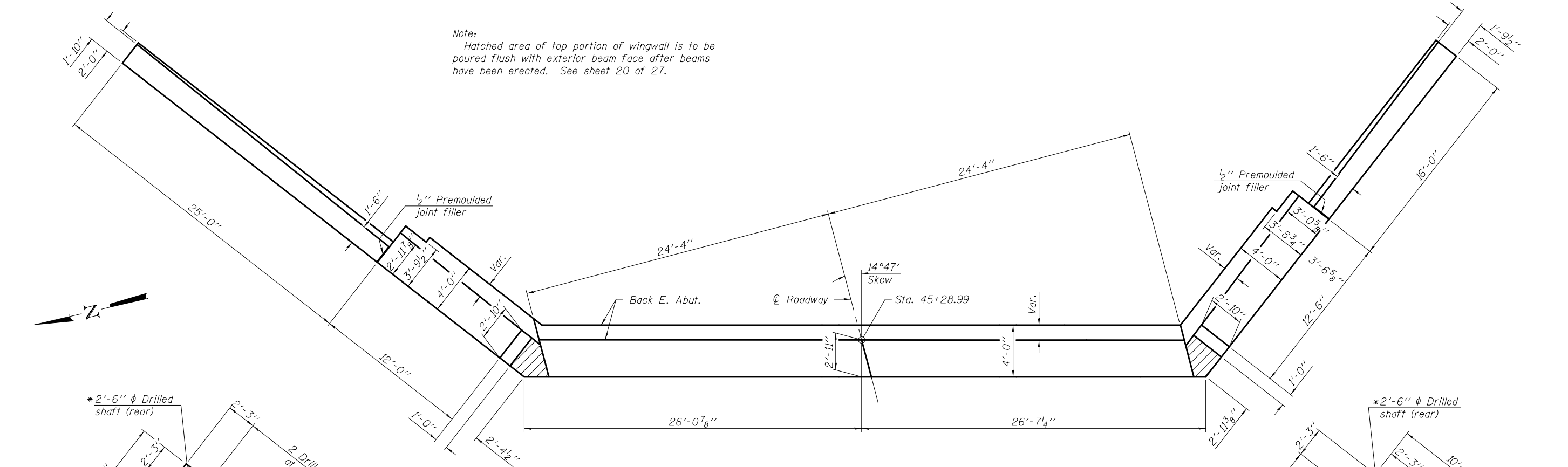
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
STRUCTURE NO. 037 - 0197

SHEET NO. 17 OF 27 SHEETS

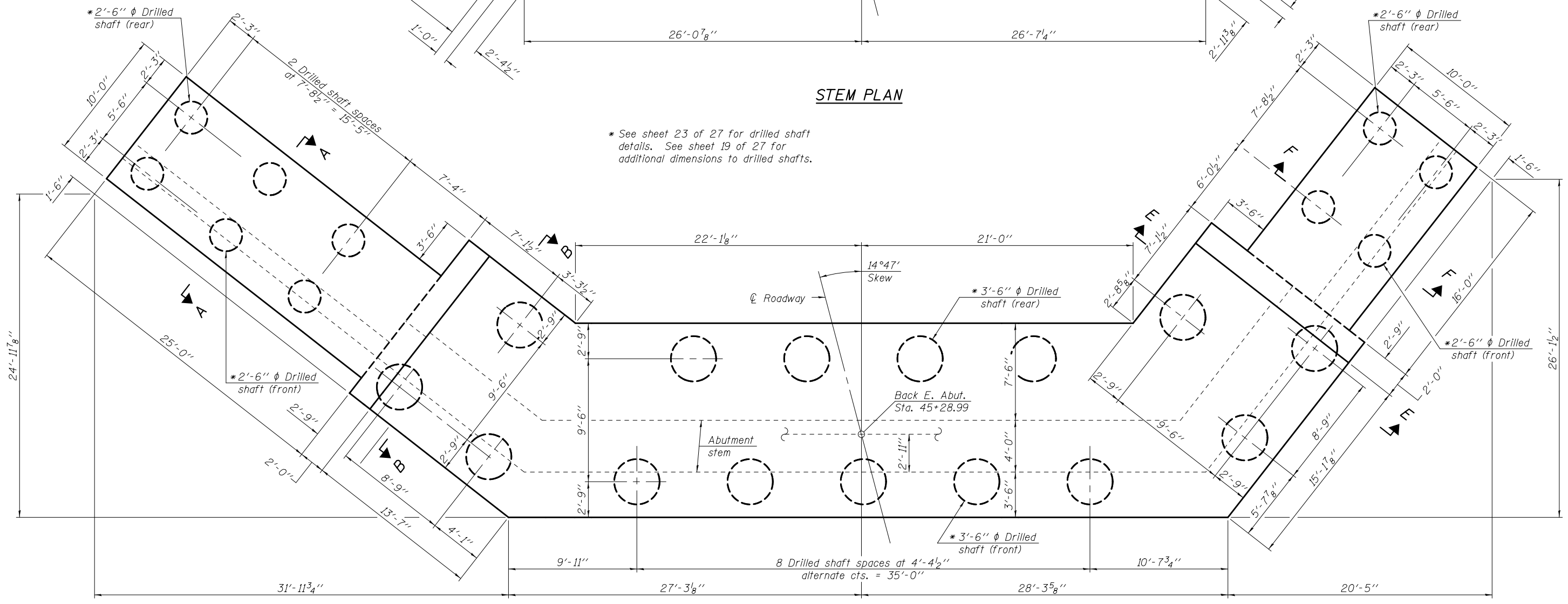
F.A.S. RT. - 223 SECTION - 101 VBR COUNTY - HENRY TOTAL SHEETS - 139 SHEET NO. - 60
CONTRACT NO. 64F84
ILLINOIS FED. AID PROJECT

Note:
 Hatched area of top portion of wingwall is to be poured flush with exterior beam face after beams have been erected. See sheet 20 of 27.



STEM PLAN

* See sheet 23 of 27 for drilled shaft details. See sheet 19 of 27 for additional dimensions to drilled shafts.



FOOTING PLAN

SDATES \$TIMES

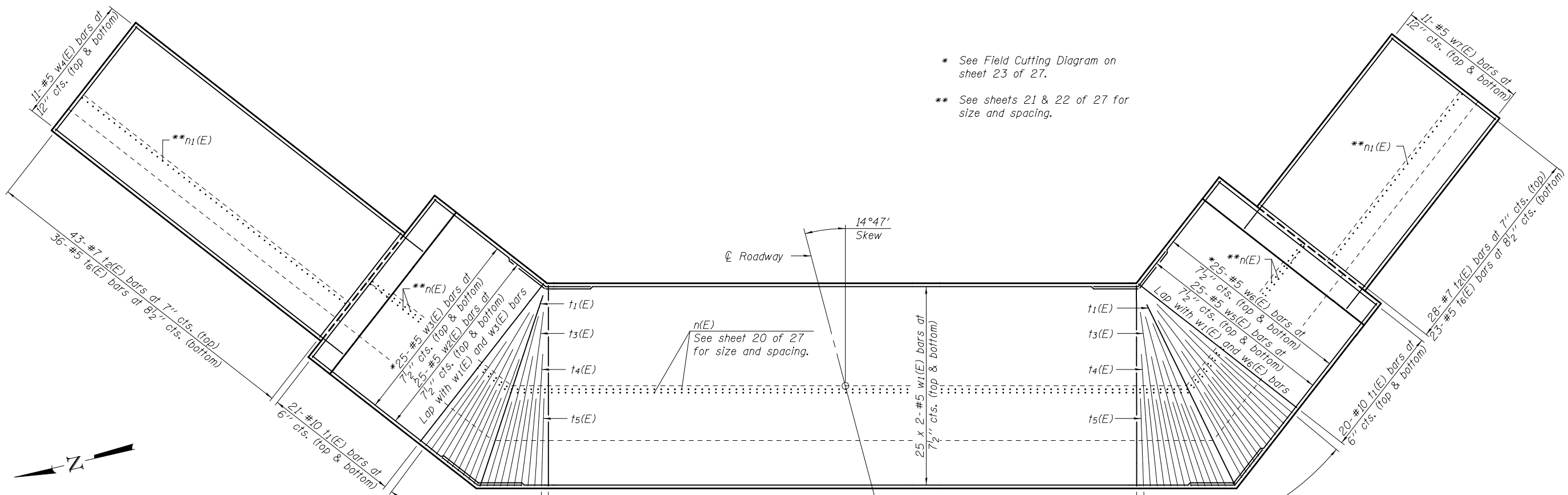
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl [Signature]</i>	REVISD -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISD -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT GEOMETRY
 STRUCTURE NO. 037 - 0197**

SHEET NO. 18 OF 27 SHEETS

F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 61
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



* See Field Cutting Diagram on sheet 23 of 27.
 ** See sheets 21 & 22 of 27 for size and spacing.

14°47' Skew
 Ⓞ Roadway

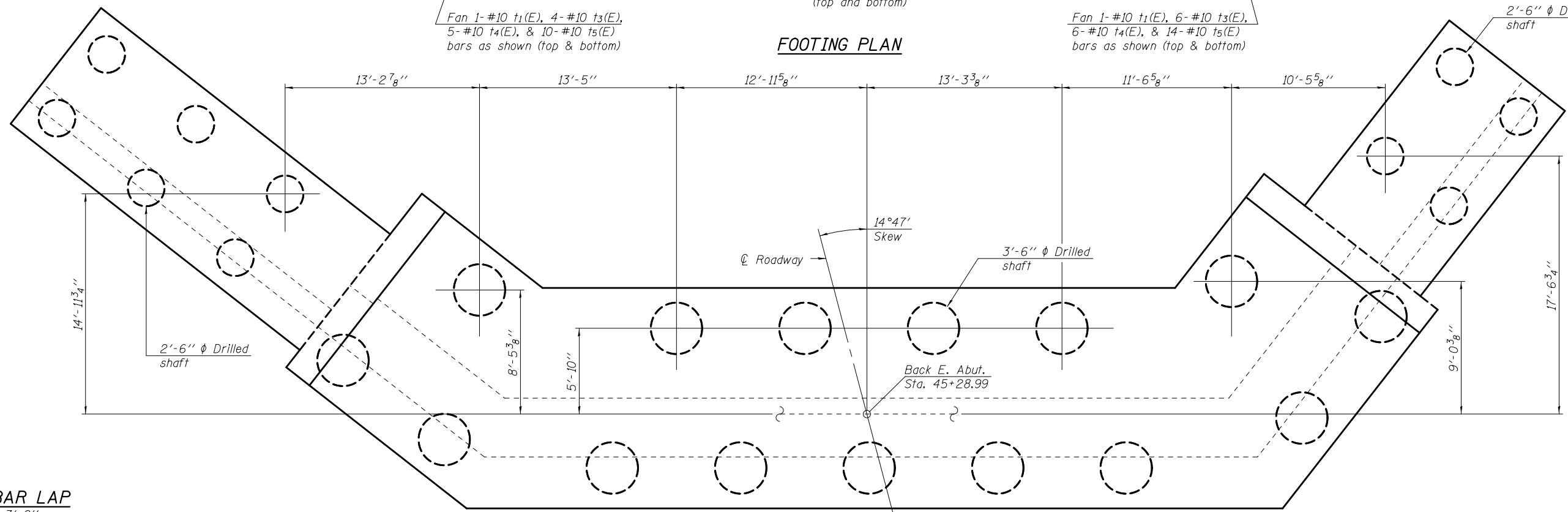
n(E)
 See sheet 20 of 27 for size and spacing.

87-#10 t1(E) bars at 6" cts.
 (top and bottom)

Fan 1-#10 t1(E), 4-#10 t3(E),
 5-#10 t4(E), & 10-#10 t5(E)
 bars as shown (top & bottom)

Fan 1-#10 t1(E), 6-#10 t3(E),
 6-#10 t4(E), & 14-#10 t5(E)
 bars as shown (top & bottom)

FOOTING PLAN



14°47' Skew
 Ⓞ Roadway

3'-6" Ⓞ Drilled shaft

Back E. Abut.
 Sta. 45+28.99

FOOTING PLAN

MINIMUM BAR LAP
 #5 Bar = 3'-8"

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
 CHECKED - NICHOLAS R. BARNETT
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
 REVISED
 REVISED

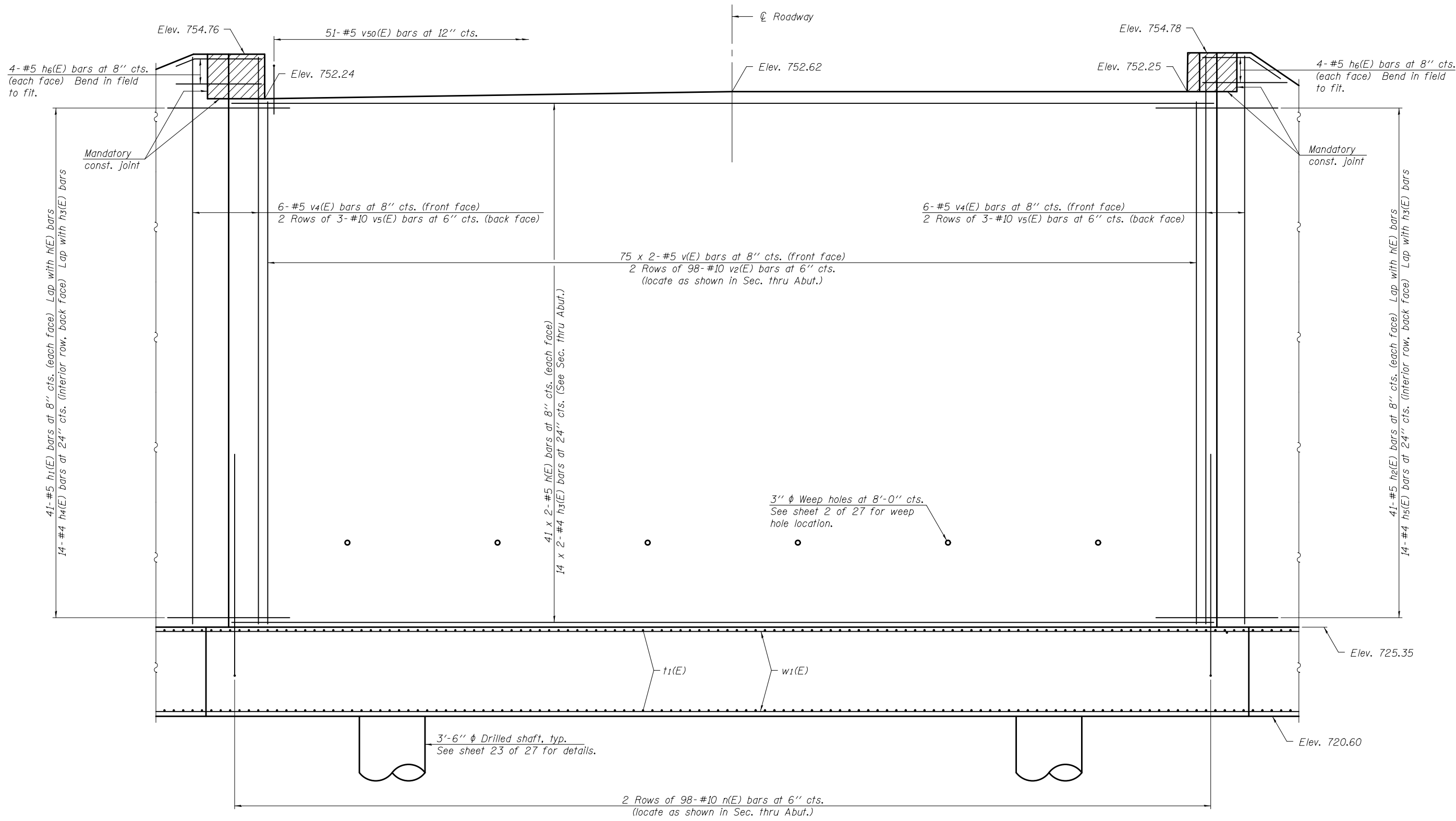
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT FOOTING GEOMETRY AND REINFORCEMENT
STRUCTURE NO. 037 - 0197

SHEET NO. 19 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	62
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT



MINIMUM BAR LAP
 #4 bar = 2'-4"
 #5 bar = 3'-3"
 #10 bar = 8'-8"

ELEVATION
 (Looking East)

Note:
 See sheet 23 of 27 for
 Section thru Abutment.

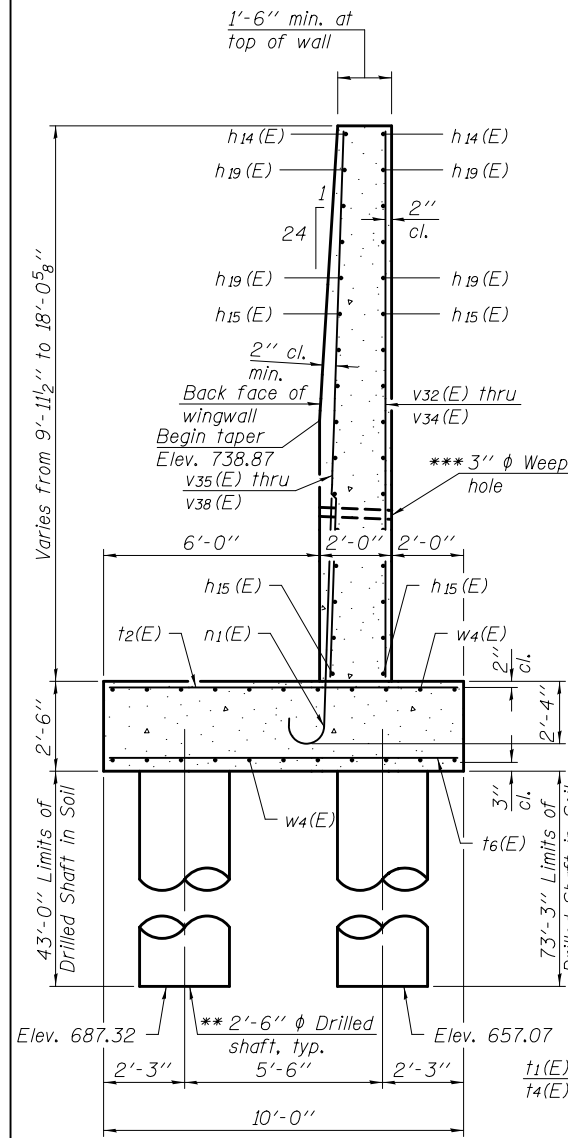
SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J...</i>	DATE - OCTOBER 1, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST ABUTMENT STEM ELEVATION STRUCTURE NO. 037 - 0197	F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 63	
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVIS			CONTRACT NO. 64F84					
DRAWN - MICHAEL B. MOSSMAN	REVIS	SHEET NO. 20 OF 27 SHEETS								
CHECKED - D.H.R. / N.R.B. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES	ILLINOIS FED. AID PROJECT								

* See Field Cutting Diagram on sheet 23 of 27.

** See sheet 23 of 27 for drilled shaft details.

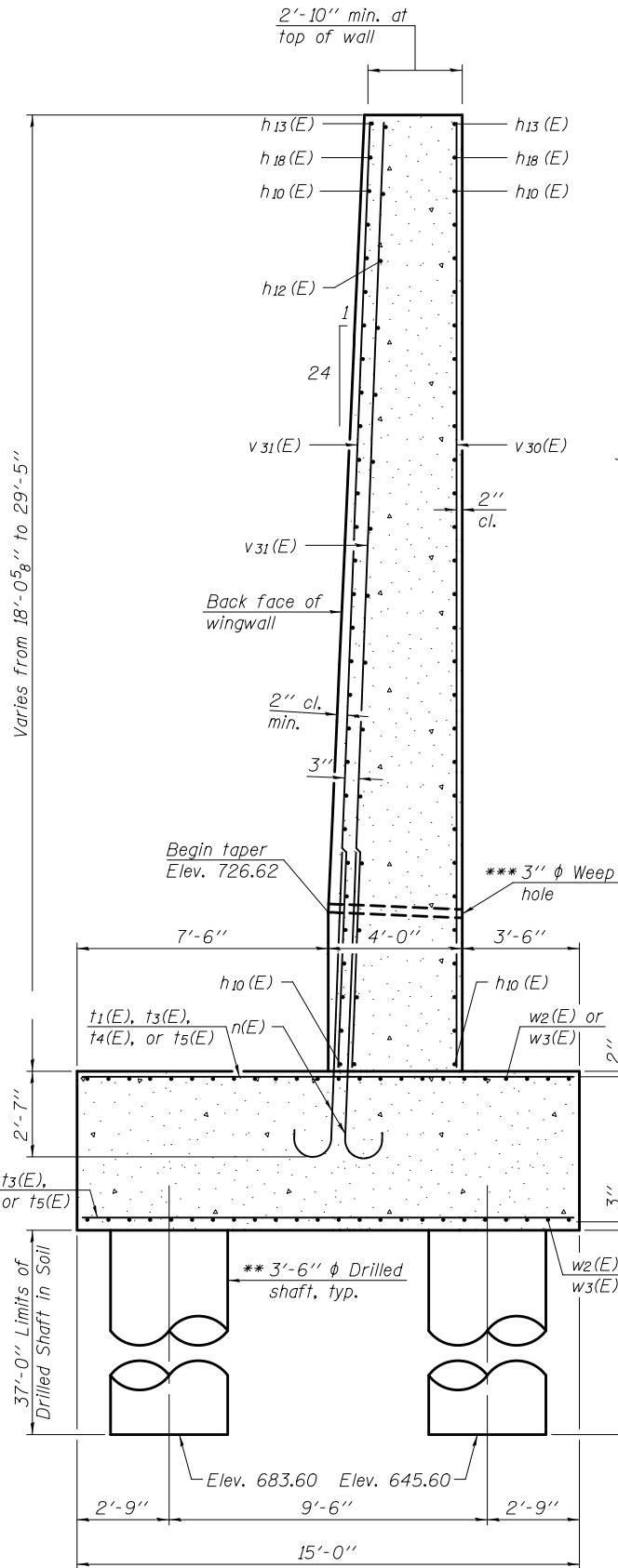
*** See sheet 2 of 27 for weep hole location.



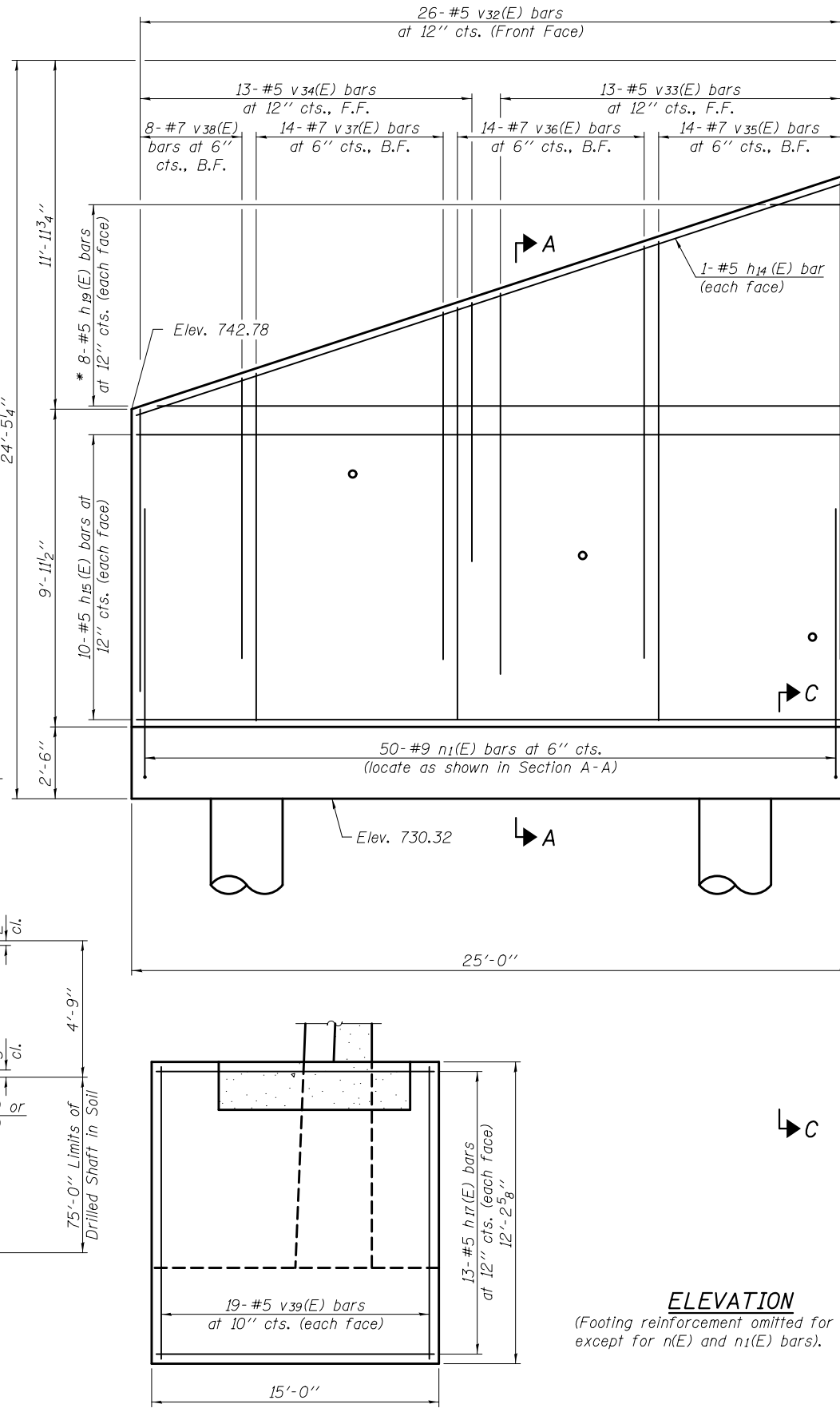
SECTION A-A

MINIMUM BAR LAP

- #5 bar = 3'-3"
- #7 bar = 5'-2"
- #10 bar = 10'-10"

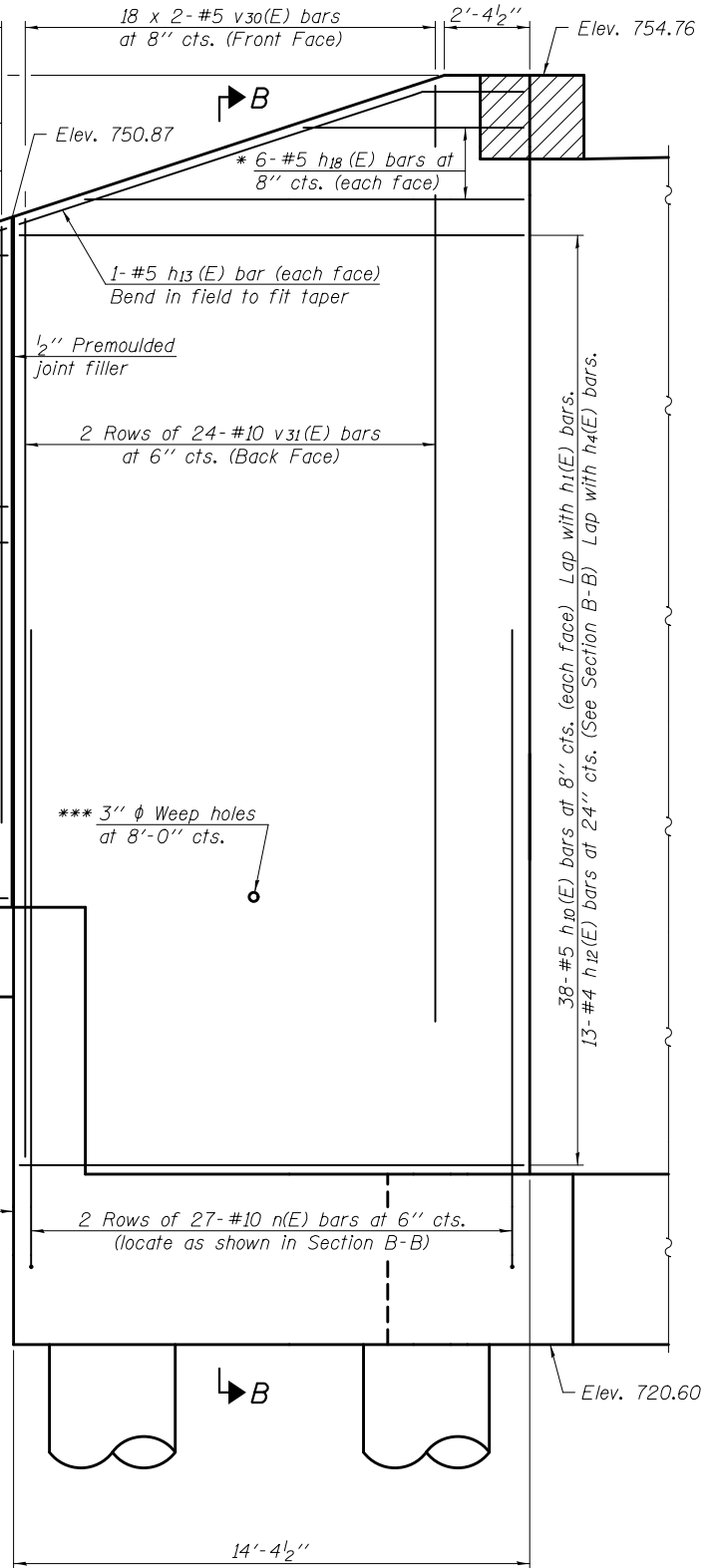


SECTION B-B



VIEW C-C

ELEVATION
(Footing reinforcement omitted for clarity except for n(E) and n1(E) bars).



SDATES \$TIMES

DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Jaime F. J. [Signature]</i>
CHECKED - NICHOLAS R. BARNETT	ENGINEER OF BRIDGE DESIGN
DRAWN - MICHAEL B. MOSSMAN	PASSED - <i>Carl [Signature]</i>
CHECKED - D.H.R. / N.R.B. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED -
REVISED -

DATE - OCTOBER 1, 2015
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT - NORTH WINGWALL DETAILS
STRUCTURE NO. 037 - 0197

SHEET NO. 21 OF 27 SHEETS

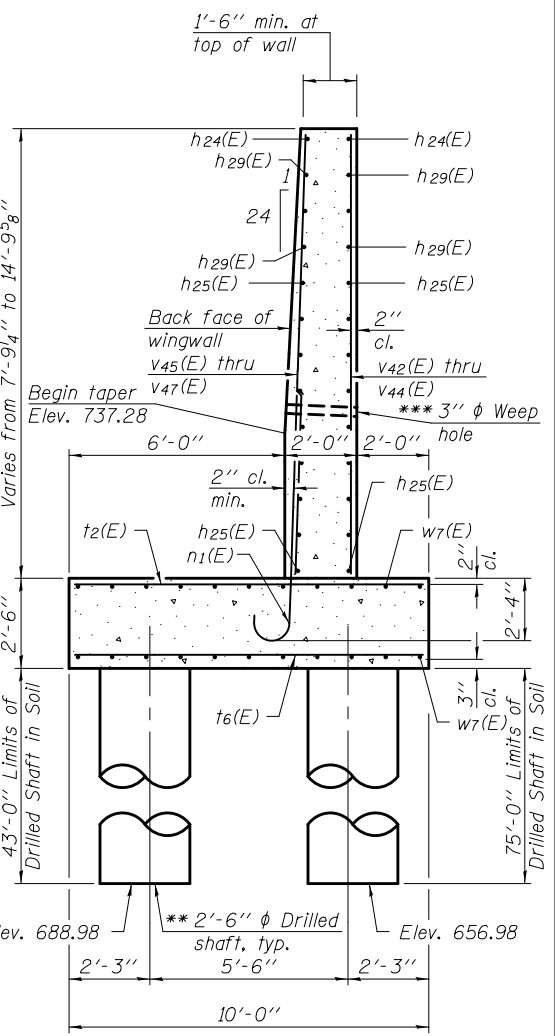
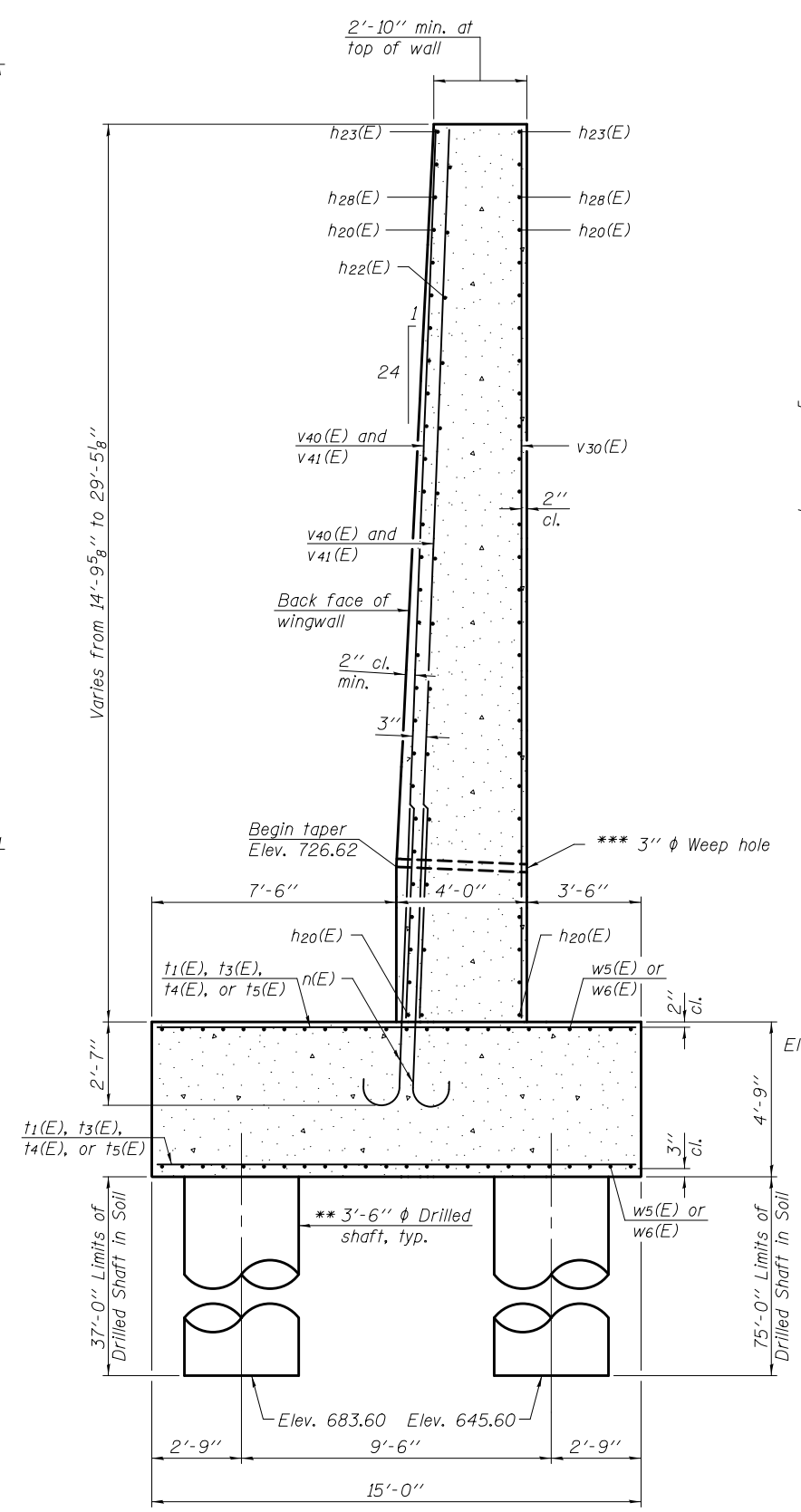
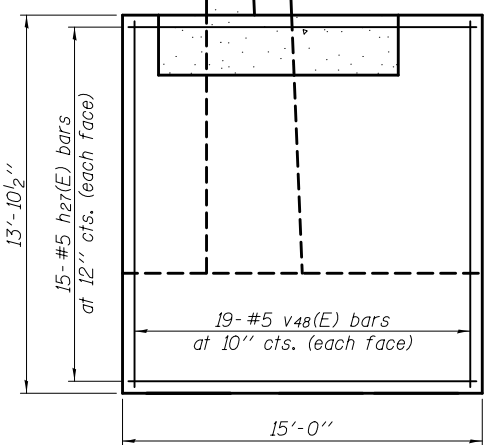
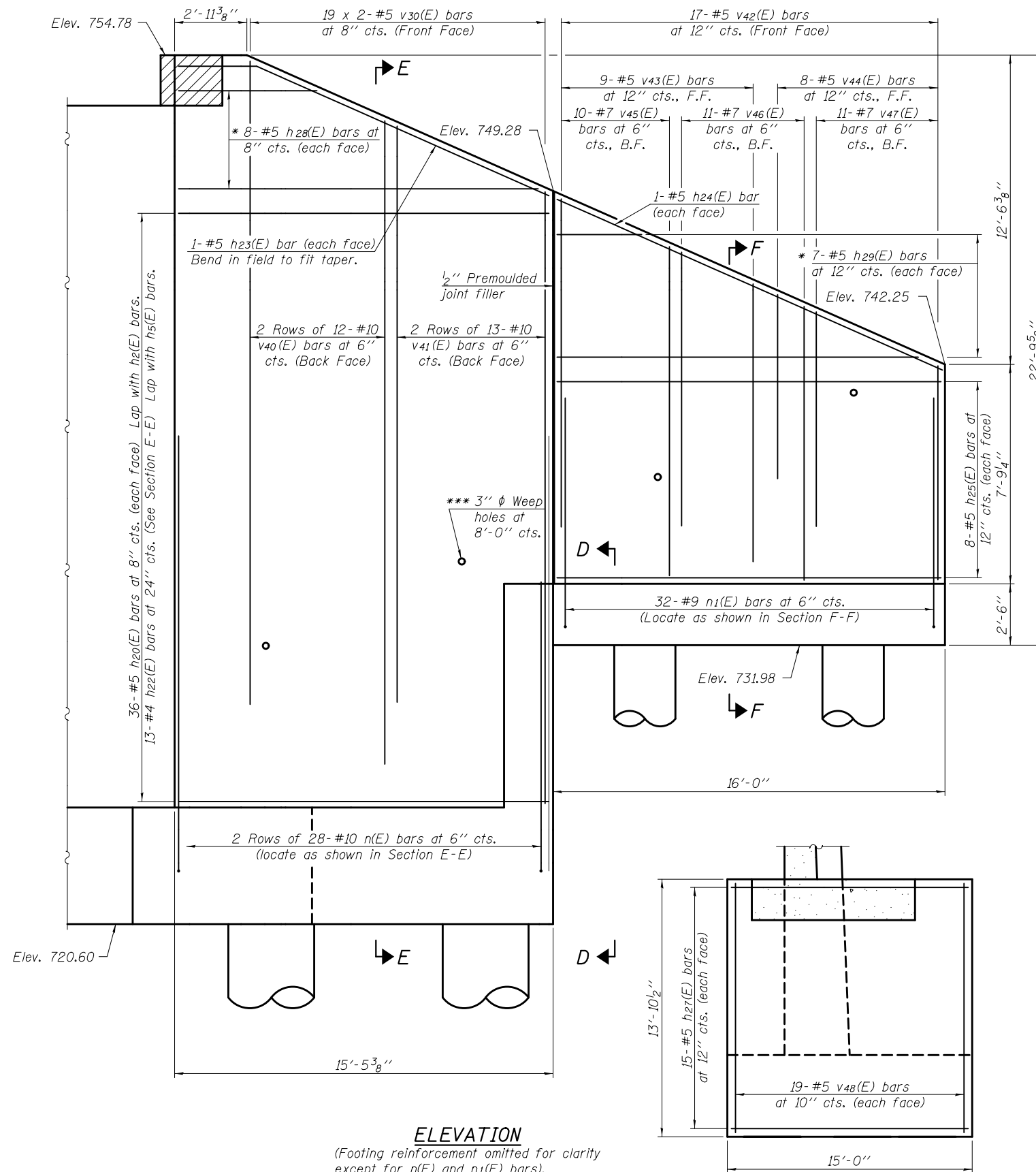
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	64
CONTRACT NO. 64F84				

ILLINOIS FED. AID PROJECT

* See Field Cutting Diagram on sheet 23 of 27.

** See sheet 23 of 27 for drilled shaft details.

*** See sheet 2 of 27 for weep hole location.



MINIMUM BAR LAP
 #5 bar = 3'-3"
 #7 bar = 5'-2"
 #10 bar = 10'-10"

SDATES \$TIMES

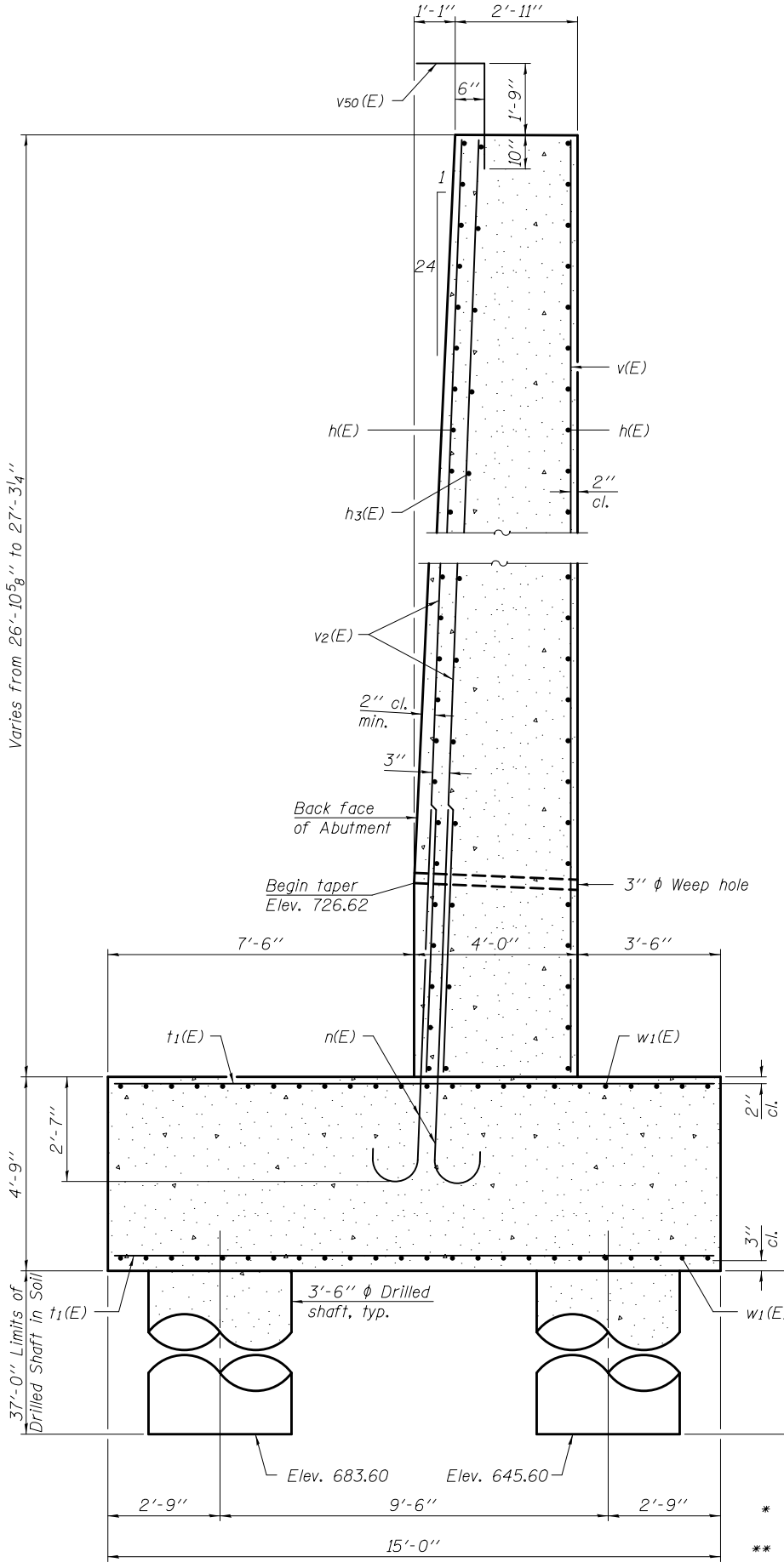
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>James F. J. [Signature]</i>	DATE - OCTOBER 1, 2015
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / N.R.B. / G.R.A.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

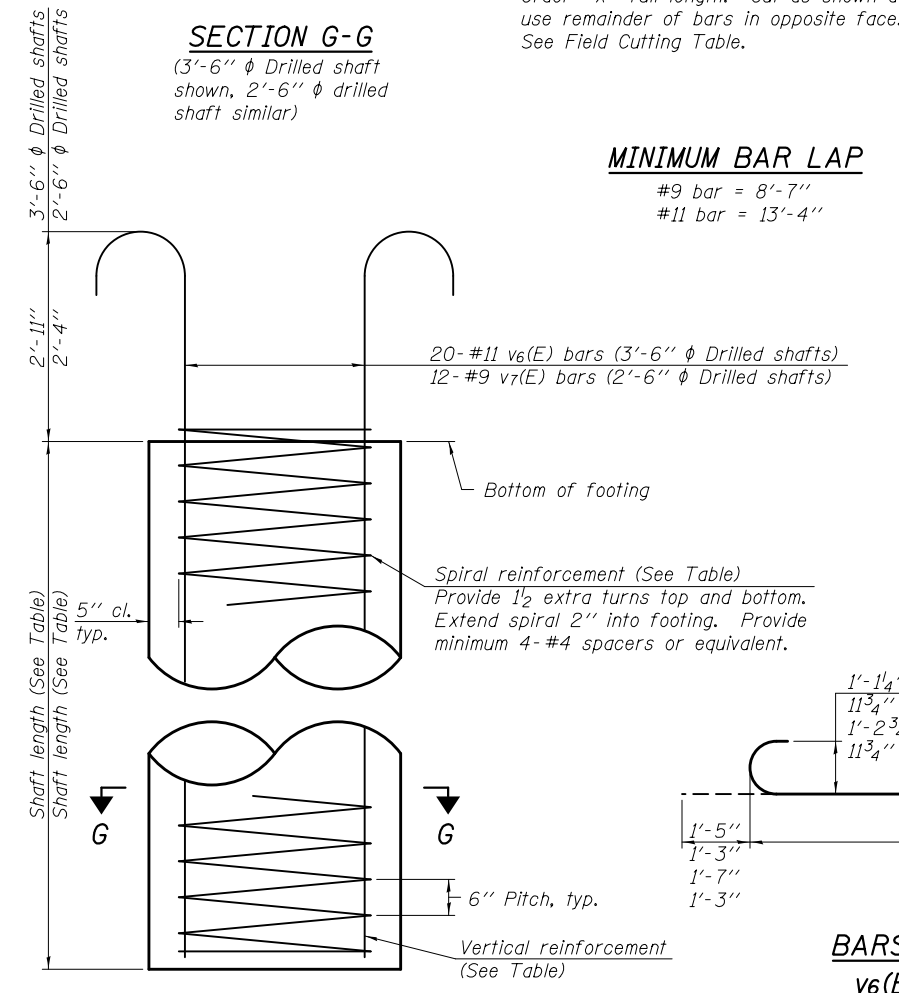
EAST ABUTMENT - SOUTH WINGWALL DETAILS
STRUCTURE NO. 037 - 0197

F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 65
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

SHEET NO. 22 OF 27 SHEETS



SECTION THRU ABUTMENT
(Dimensions are at right angles to abutment)



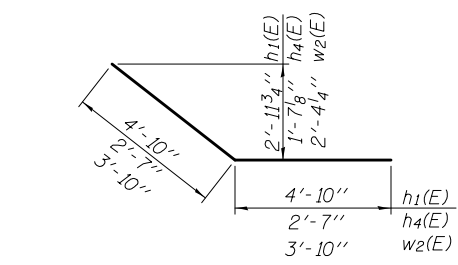
SECTION G-G
(3'-6" φ Drilled shaft shown, 2'-6" φ drilled shaft similar)

FIELD CUTTING DIAGRAM
Order "X" full length. Cut as shown and use remainder of bars in opposite face. See Field Cutting Table.

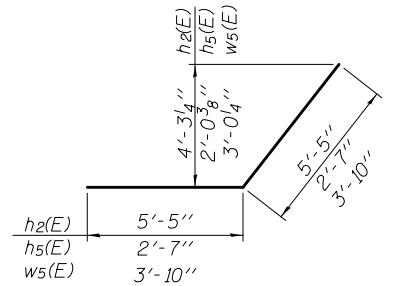
MINIMUM BAR LAP
#9 bar = 8'-7"
#11 bar = 13'-4"

FIELD CUTTING TABLE

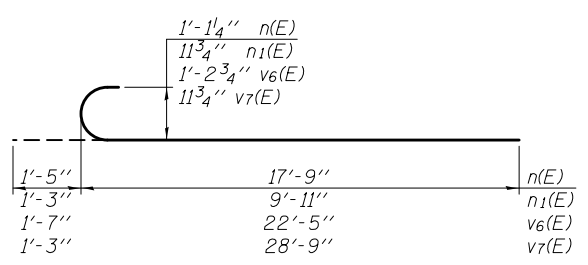
X	a	b	c
6-h18(E) bars	14'-4"	2'-0"	12'-4"
8-h19(E) bars	25'-8"	2'-0"	23'-8"
8-h28(E) bars	14'-1"	1'-9"	12'-4"
7-h29(E) bars	15'-4"	10"	14'-6"
25-w3(E) bars	25'-4"	10'-2"	15'-2"
25-w6(E) bars	26'-4"	9'-7"	16'-9"



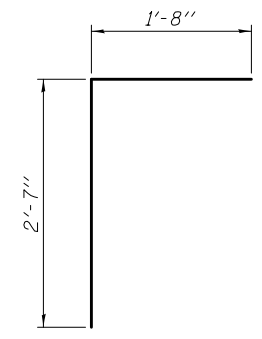
BARS h1(E), h4(E), & w2(E)



BARS h2(E), h5(E), & w5(E)



BARS n(E), n1(E), v6(E) & v7(E)



BAR v50(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	164	#5	27'-10"	
h1(E)	82	#5	9'-8"	
h2(E)	82	#5	10'-10"	
h3(E)	28	#4	27'-5"	
h4(E)	14	#4	5'-2"	
h5(E)	14	#4	5'-2"	
h6(E)	16	#5	5'-4"	
h10(E)	76	#5	12'-8"	
h12(E)	13	#4	12'-9"	
h13(E)	2	#5	13'-3"	
h14(E)	2	#5	26'-0"	
h15(E)	20	#5	24'-8"	
h17(E)	26	#5	14'-8"	
h18(E)	6	#5	14'-4"	
h19(E)	8	#5	25'-8"	
h20(E)	72	#5	13'-2"	
h22(E)	13	#4	13'-4"	
h23(E)	2	#5	14'-4"	
h24(E)	2	#5	17'-1"	
h25(E)	16	#5	15'-8"	
h27(E)	30	#5	14'-8"	
h28(E)	8	#5	14'-1"	
h29(E)	7	#5	15'-4"	
n(E)	306	#10	19'-2"	
n1(E)	82	#9	11'-2"	
sp3(E)	5	#5	43'-0"	
sp5(E)	9	#5	75'-0"	
sp6(E)	6	#5	37'-0"	
sp7(E)	2	#5	75'-0"	
sp8(E)	3	#5	73'-3"	
t1(E)	260	#10	14'-8"	
t2(E)	71	#7	9'-8"	
t3(E)	20	#10	12'-10"	
t4(E)	22	#10	9'-8"	
t5(E)	48	#10	6'-5"	
t6(E)	59	#5	9'-8"	
v(E)	150	#5	15'-9"	
v2(E)	196	#10	21'-11"	
v4(E)	12	#5	29'-0"	
v5(E)	12	#10	29'-0"	
v6(E)	300	#11	24'-0"	
v7(E)	120	#9	30'-0"	
v8(E)	240	#9	25'-3"	
v9(E)	660	#11	32'-10"	
v30(E)	74	#5	16'-3"	
v31(E)	48	#10	25'-1"	
v32(E)	26	#5	8'-11"	
v33(E)	13	#5	12'-0"	
v34(E)	13	#5	7'-11"	
v35(E)	14	#7	15'-5"	
v36(E)	14	#7	13'-2"	
v37(E)	14	#7	10'-11"	
v38(E)	8	#7	8'-8"	
v39(E)	38	#5	11'-10"	
v40(E)	24	#10	25'-0"	
v41(E)	26	#10	22'-3"	
v42(E)	17	#5	6'-10"	
v43(E)	9	#5	10'-10"	
v44(E)	8	#5	7'-0"	
v45(E)	10	#7	12'-2"	
v46(E)	11	#7	9'-11"	
v47(E)	11	#7	7'-6"	
v48(E)	38	#5	13'-6"	
v50(E)	51	#5	4'-3"	
w1(E)	100	#5	29'-6"	
w2(E)	50	#5	7'-8"	
w3(E)	25	#5	25'-4"	
w4(E)	22	#5	26'-8"	
w5(E)	50	#5	7'-8"	
w6(E)	25	#5	26'-4"	
w7(E)	22	#5	17'-8"	
Structure Excavation		Cu. Yd.	1,050	
Concrete Structures		Cu. Yd.	566.8	
Reinforcement Bars, Epoxy Coated		Pound	314,820	
Drilled Shaft in Soil		Cu. Yd.	426.3	

Note:
In order to satisfy the axial resistance requirements for the 3'-6" diameter shafts in the front row, the bottoms of the shafts shall be founded no higher than Elevation 645.60 and bear in dense granular material. This granular material generally consists of very dense sand and/or dense sandy gravel, as shown to occur in Boring B-1b below Elevation 647.10. Should this dense granular material not be encountered at the base of the shaft excavation at Elevation 645.60 during construction, the Contractor shall deepen the shafts so that they extend into the dense granular material.

TABLE

Location	Total No. Shafts	Shaft Length	Spiral Reinforcement (per Shaft)	Vertical Reinforcement (per Shaft)
SE Wingwall (2'-6" φ Front Shaft)	2	75'-0"	#5 sp7(E) Spiral	12 x 3- #9 v8(E) bars *
SE Wingwall (2'-6" φ Rear Shaft)	2	43'-0"	#5 sp3(E) Spiral	12- #9 v8(E) bars *
E. Abut. (3'-6" φ Front Shaft)	9	75'-0"	#5 sp5(E) Spiral	20 x 3- #11 v9(E) bars **
E. Abut. (3'-6" φ Rear Shaft)	6	37'-0"	#5 sp6(E) Spiral	20- #11 v9(E) bars **
NE Wingwall (2'-6" φ Front Shaft)	3	73'-3"	#5 sp8(E) Spiral	12 x 3- #9 v8(E) bars *
NE Wingwall (2'-6" φ Rear Shaft)	3	43'-0"	#5 sp3(E) Spiral	12- #9 v8(E) bars *

* Bars are lapped with v7(E) bars.
** Bars are lapped with v6(E) bars.
*** Length is height of spiral.

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED - *Joanne F. J...*
PASSED - *Carl...*
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
STRUCTURE NO. 037 - 0197
SHEET NO. 23 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	66
				CONTRACT NO. 64F84
				ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 2/22/12

ROUTE FAP 223 DESCRIPTION P92-023-10 Bridge over SF RR, .2 m. W. of 400E in Lynn Center LOGGED BY B. Wetzell

SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E

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

STRUCT. NO. 037-0126
Station 44+64
BORING NO. B-1
Station 43+57
Offset 7.00ft Rt CL
Ground Surface Elev. 753.60 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)
751.10	3	0.8 P	24	727.91		732.10	1	2	0.8 B
749.60	4	0.9 P	27			729.60	1	4	1.9 B
747.10	5	1.0 B	29			726.60	2	4	1.4 B
744.60	2	0.6 B	25			724.60	2	5	1.3 B
742.10	2	0.8 B	26			722.10	2	5	1.8 B
739.60	3	0.7 B	25			719.60	2	6	2.9 B
737.10	1	0.3 B	31			717.10	6	10	4.3 B
734.60	4	2.0 P	44			714.60	4	9	3.7 B
								15	B

MEDIUM black SILTY CLAY LOAM						MEDIUM gray SILTY CLAY LOAM			
MEDIUM black SILTY CLAY LOAM						STIFF gray SILTY CLAY LOAM			
MEDIUM tan SILTY CLAY LOAM						STIFF gray SILTY CLAY LOAM			
MEDIUM tan SILTY LOAM						STIFF gray CLAY LOAM TILL with SAND lenses			
MEDIUM tan SILTY LOAM						STIFF gray CLAY LOAM TILL			
MEDIUM tan SILT						VERY STIFF gray CLAY LOAM TILL			
SOFT tan SILT						HARD gray CLAY LOAM TILL			
STIFF brown SILTY LOAM with ORGANICS						VERY STIFF gray CLAY LOAM TILL			

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

SOIL BORING LOG

Page 2 of 3

Date 2/22/12

ROUTE FAP 223 DESCRIPTION P92-023-10 Bridge over SF RR, .2 m. W. of 400E in Lynn Center LOGGED BY B. Wetzell

SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E

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

STRUCT. NO. 037-0126
Station 44+64
BORING NO. B-1
Station 43+57
Offset 7.00ft Rt CL
Ground Surface Elev. 753.60 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)
712.10	10	4.7 B	12	727.91		692.10	3	6	3.1 B
709.60	7	2.9 B	13			689.60	4	8	3.1 B
707.10	5	2.5 B	13			687.10	6	7	2.7 B
704.60	9	5.0 B	12			684.60	3	6	1.7 B
702.10	10	5.4 B	12			682.10	2	5	2.9 B
699.60	6	4.7 B	12			679.10	4	8	2.7 B
697.10	4	4.7 B	12			677.10	3	5	
694.60	5	5.0 B	12			674.60	9	20	
								38	

HARD gray CLAY LOAM TILL						VERY STIFF gray CLAY LOAM TILL			
VERY STIFF gray CLAY LOAM TILL						VERY STIFF gray CLAY LOAM TILL			
VERY STIFF gray CLAY LOAM TILL						VERY STIFF gray CLAY LOAM TILL			
HARD gray CLAY LOAM TILL						STIFF gray CLAY LOAM TILL			
HARD gray CLAY LOAM TILL						VERY STIFF gray CLAY LOAM TILL			
HARD gray CLAY LOAM TILL						VERY STIFF gray CLAY LOAM TILL			
HARD gray CLAY LOAM TILL						MEDIUM gray fine SAND			
HARD gray CLAY LOAM TILL						Wash VERY DENSE gray fine SANDY GRAVEL			

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

SOIL BORING LOG

Page 3 of 3

Date 2/22/12

ROUTE FAP 223 DESCRIPTION P92-023-10 Bridge over SF RR, .2 m. W. of 400E in Lynn Center LOGGED BY B. Wetzell

SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E

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

STRUCT. NO. 037-0126
Station 44+64
BORING NO. B-1
Station 43+57
Offset 7.00ft Rt CL
Ground Surface Elev. 753.60 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	DEPTH (ft)	BLOW COUNT (Blows/ft)	UNCONSOLIDATED QUANTITY (%)	MOISTURE (%)
672.10	10								
	30								
	31								

VERY DENSE gray well cemented fine SANDY GRAVEL									
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, form 137 (Rev. 8-99)

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 037 - 0197

SHEET NO. 24 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	67
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 3

Date 2/25/15

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126 DEPTH (ft) (6") (tsf) (%) SURFACE WATER Elev. _____ ft
Station _____ Stream Bed Elev. _____ ft
BORING NO. B-1b GROUNDWATER Elev.:
Station 46+07 First Encounter 696.1 ft
Offset 59.00ft Lt CL Upon Completion _____ ft
Ground Surface Elev. 753.1 ft After 1.5 Hrs. 705.1 ft

DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Description	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
0				AUGER	0			
-5					-5			
-10					-10			
-15					-15			
-20					-20			
-25				AUGER (continued)	-25			
-30					-30			
-35					-35			
-40					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 2 of 3

Date 2/25/15

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126 DEPTH (ft) (6") (tsf) (%) SURFACE WATER Elev. _____ ft
Station _____ Stream Bed Elev. _____ ft
BORING NO. B-1b GROUNDWATER Elev.:
Station 46+07 First Encounter 696.1 ft
Offset 59.00ft Lt CL Upon Completion _____ ft
Ground Surface Elev. 753.1 ft After 1.5 Hrs. 705.1 ft

DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Description	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
0				AUGER (continued)	0			
-45					-45			
-50					-50			
-55					-55			
-60					-60			
684.10				VERY STIFF gray SILTY CLAY	684.10	13		
682.60					682.60	24	2.8	19
						37	P	
680.10				HARD gray SILTY LOAM	680.10	14		
						21	4.8	18
						25	S	
677.60				HARD gray CLAY LOAM	677.60	14		
						19	5.8	17
						27	B	
675.10				HARD gray CLAY LOAM TILL	675.10	13		
						18	6.2	13
						30	B	
				HARD gray SILTY CLAY		10		
						22	7.2	16

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

SOIL BORING LOG

Page 3 of 3

Date 2/25/15

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126 DEPTH (ft) (6") (tsf) (%) SURFACE WATER Elev. _____ ft
Station _____ Stream Bed Elev. _____ ft
BORING NO. B-1b GROUNDWATER Elev.:
Station 46+07 First Encounter 696.1 ft
Offset 59.00ft Lt CL Upon Completion _____ ft
Ground Surface Elev. 753.1 ft After 1.5 Hrs. 705.1 ft

DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Description	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
672.60				HARD gray SILTY CLAY (continued)	672.60	33	S	
670.10				HARD gray SILTY CLAY	670.10	15		
						22	4.3	17
						28	B	
667.60				HARD gray CLAY LOAM TILL with SAND lens	667.60	22		
						22	5.9	13
						26	S	
665.10				VERY STIFF gray SANDY CLAY LOAM TILL	665.10	13		
						16	3.1	14
						21	B	
662.60				HARD gray SANDY CLAY LOAM TILL	662.60	13		
						19	4.7	15
						23	B	
660.10				3/2/15 HARD gray CLAY LOAM TILL with SAND lens	660.10	15		
						20	5.2	14
						25	B	
657.60				HARD gray CLAY LOAM TILL	657.60	20		
						25	7.2	14
						37	B	
655.10				VERY DENSE gray fine SAND	655.10	31		
						00/10		17
				VERY STIFF gray CLAY with fine SAND lens		16		
						25	3.5	21

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)

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED _____
PASSED _____
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 1, 2015
REVISED _____
REVISED _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 037 - 0197

SHEET NO. 26 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	69
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 3

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126
Station _____
BORING NO. B-2b
Station 43+83
Offset 59.00ft Rt CL
Ground Surface Elev. 751.5 ft
Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 675.0 ft
Upon Completion Wash ft
After 24 Hrs. 714.5 ft
D E P T H (ft) B L O W S (blows) U C S (tsf) M O I S T (%)

DEPTH (ft)	BLOW S (blows)	UCS (tsf)	MOIST (%)	REMARKS
-5				AUGER
-10				AUGER (continued)
-15				AUGER
-20				AUGER (continued)

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

SOIL BORING LOG

Page 2 of 3

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126
Station _____
BORING NO. B-2b
Station 43+83
Offset 59.00ft Rt CL
Ground Surface Elev. 751.5 ft
Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 675.0 ft
Upon Completion Wash ft
After 24 Hrs. 714.5 ft
D E P T H (ft) B L O W S (blows) U C S (tsf) M O I S T (%)

DEPTH (ft)	BLOW S (blows)	UCS (tsf)	MOIST (%)	REMARKS
-45				AUGER (continued)
-50				AUGER (continued)
-55				AUGER (continued)
-60				AUGER (continued)
682.50	7			VERY STIFF gray CLAY LOAM TILL
681.00	10	2.5	B	
678.50	6	2.3	B	VERY STIFF gray CLAY LOAM TILL
675.50	5			STIFF gray CLAY LOAM TILL with SAND lens
673.50	3			MEDIUM gray clean medium coarse SAND

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

SOIL BORING LOG

Page 3 of 3

ROUTE FAP 223 DESCRIPTION 037-0126 P92-023-10 IL 81 bridge over the SFRR in Lynn Center LOGGED BY W. Garza
SECTION 101 VB LOCATION Lynn Twp. - 10SE, SEC. , TWP. 15N, RNG. 1E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. 037-0126
Station _____
BORING NO. B-2b
Station 43+83
Offset 59.00ft Rt CL
Ground Surface Elev. 751.5 ft
Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 675.0 ft
Upon Completion Wash ft
After 24 Hrs. 714.5 ft
D E P T H (ft) B L O W S (blows) U C S (tsf) M O I S T (%)

DEPTH (ft)	BLOW S (blows)	UCS (tsf)	MOIST (%)	REMARKS
671.00	20			3/11/15 Wash VERY STIFF gray SILTY CLAY TILL (continued)
668.50	13	4.3	11	HARD gray CLAY LOAM with SAND lens
665.50	5			VERY STIFF gray CLAY LOAM TILL w/SANDY GRAVEL bottom 8"
663.00	25			VERY DENSE gray SANDY GRAVEL with SILT lens
661.00	13	5.4	22	HARD gray SILTY CLAY with fine SAND lens
658.50	10	5.0	24	Wash HARD gray fat CLAY with ORGANICS
652.50	8	1.5	24	Wash STIFF gray SILTY CLAY with ORGANICS
648.50	6	2.1	30	VERY STIFF gray SILTY CLAY LOAM
646.00	9			VERY STIFF gray SILTY CLAY TILL
643.00	8	3.1	22	VERY STIFF gray SILTY CLAY LOAM TILL
641.00	10			VERY DENSE gray well-cemented SAND
				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, form 137 (Rev. 8-99)

SDATES \$TIMES

DESIGNED - DAVID H. RICHTER
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - D.H.R. / N.R.B. / G.R.A.

EXAMINED _____
PASSED _____
ACTING ENGINEER OF BRIDGES AND STRUCTURES

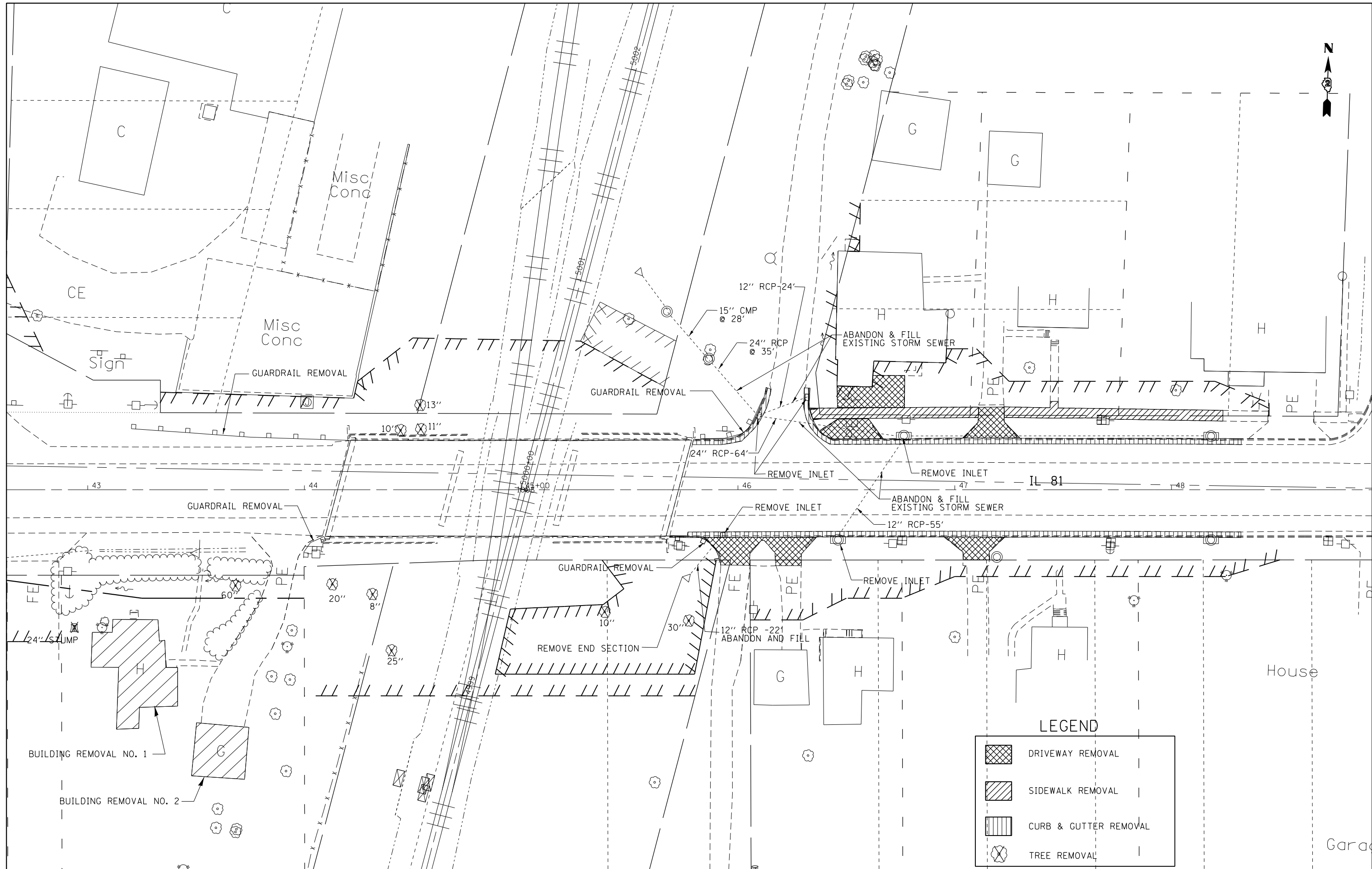
DATE - OCTOBER 1, 2015
REVISED _____
REVISED _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 037 - 0197

SHEET NO. 27 OF 27 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	70
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



LEGEND

	DRIVEWAY REMOVAL
	SIDEWALK REMOVAL
	CURB & GUTTER REMOVAL
	TREE REMOVAL

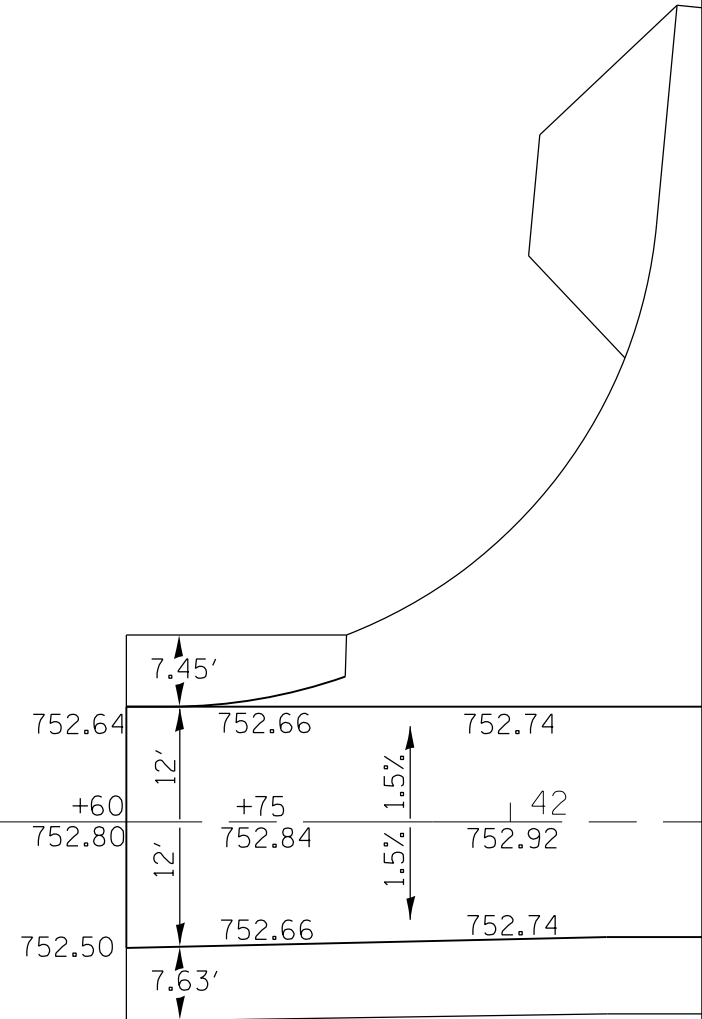
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Default		CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEET

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	71
CONTRACT NO. 64F84			ILLINOIS FED. AID PROJECT	



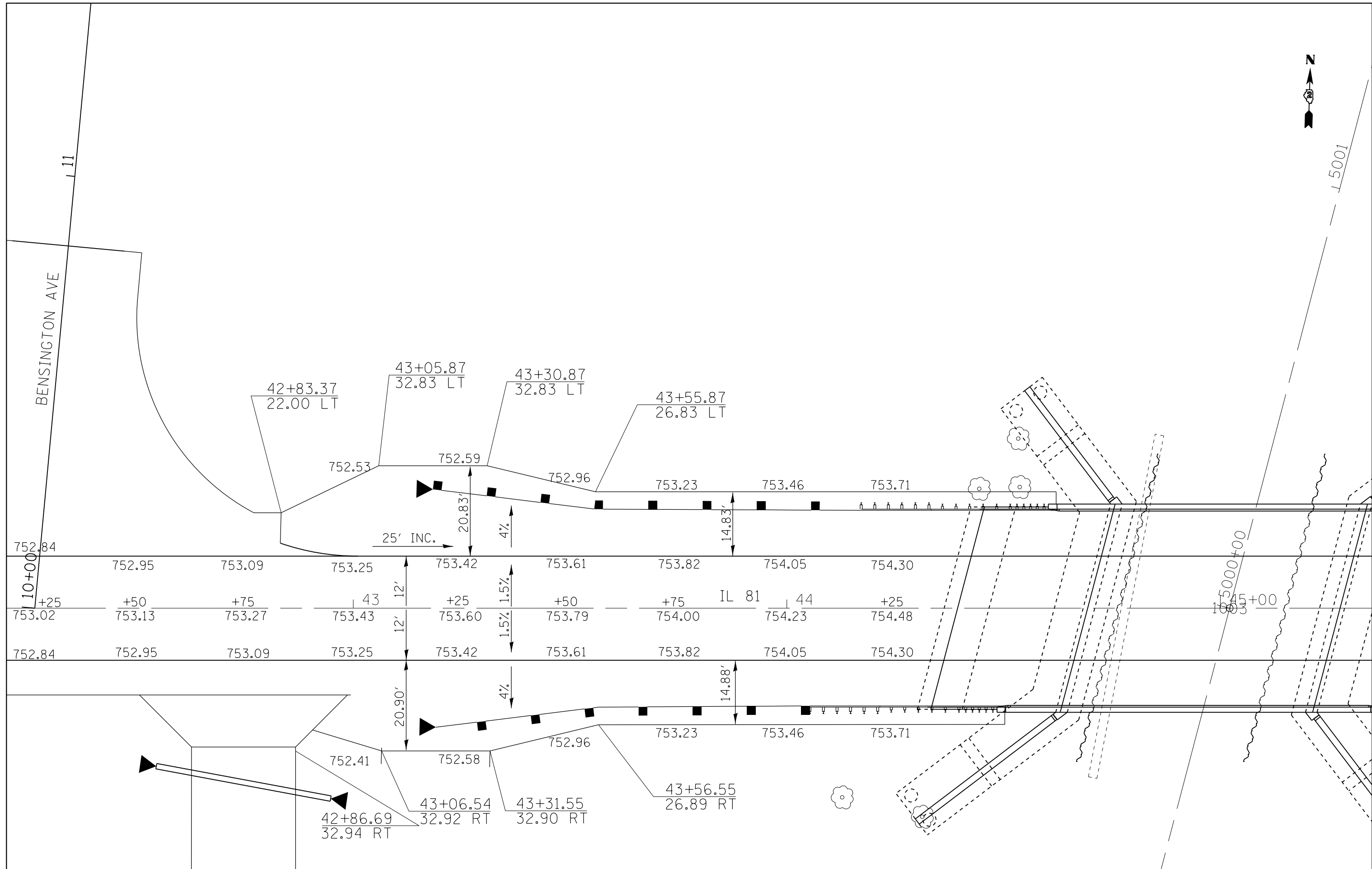
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

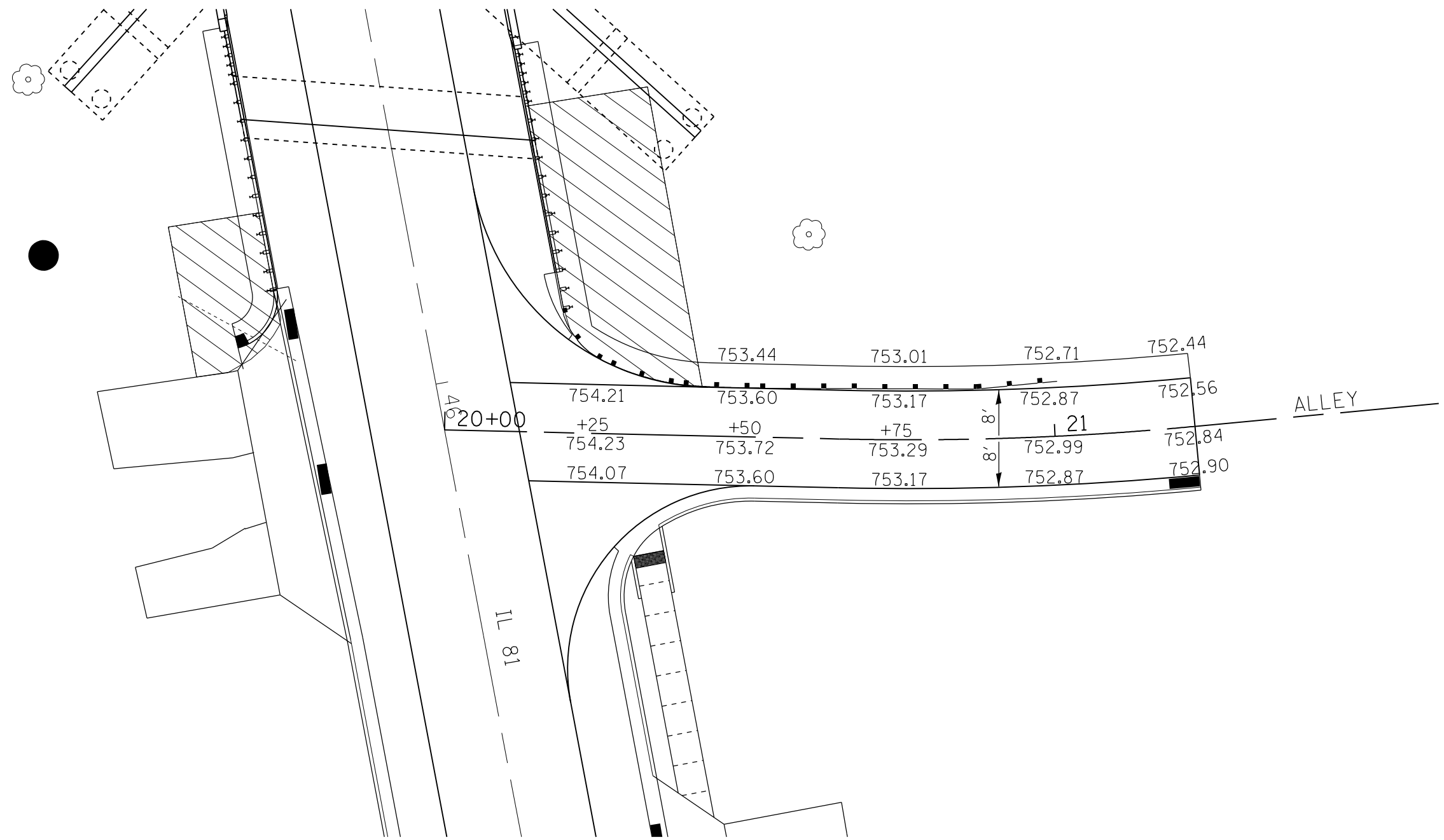
**IL 81
PAVEMENT ELEVATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

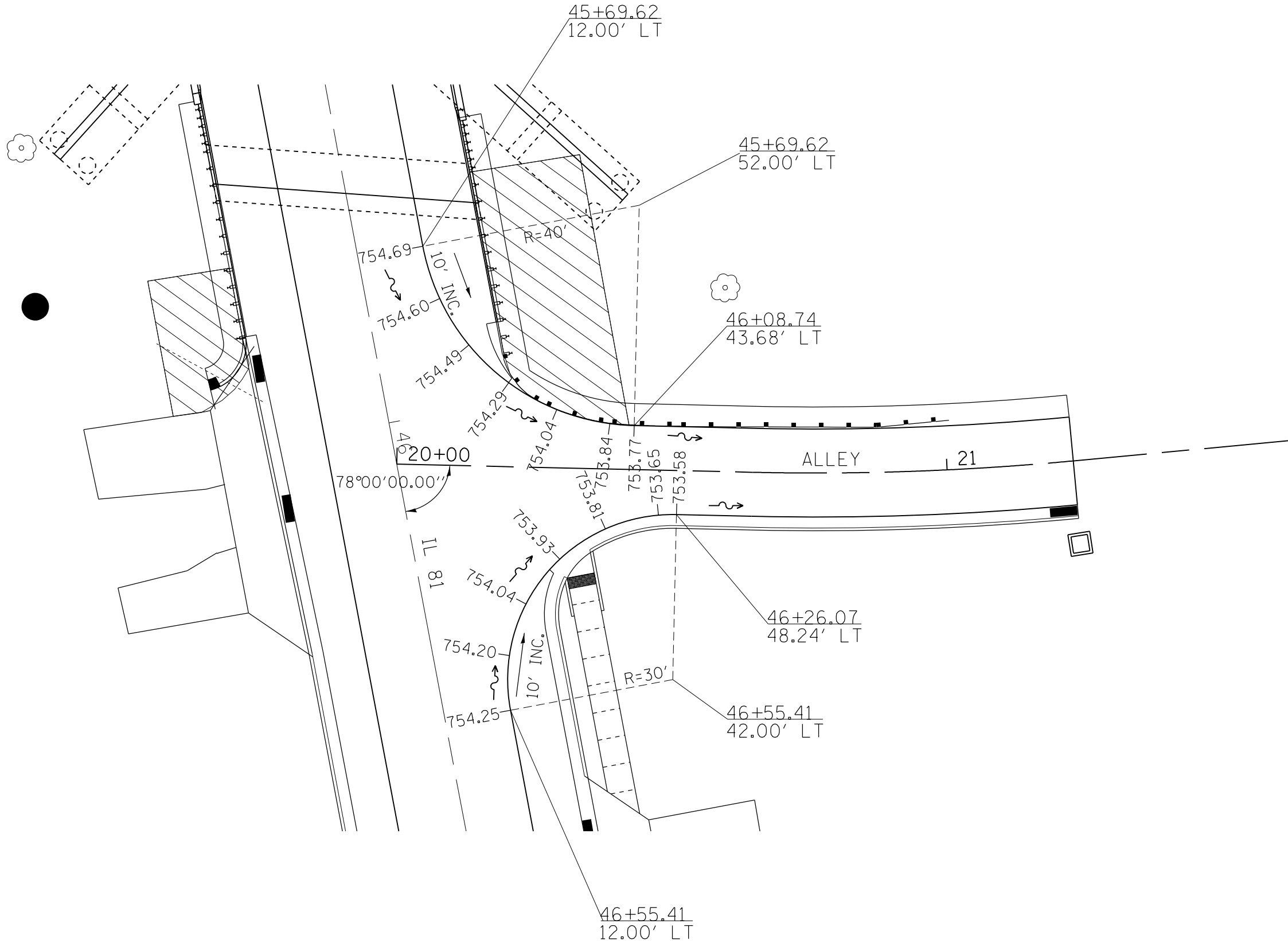
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	72
CONTRACT NO. 64F84			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 81 PAVEMENT ELEVATIONS				F.A.S. RTE. 223	SECTION 101 VBR	COUNTY HENRY	TOTAL SHEETS 139	SHEET NO. 73
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Default		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = Aug-03-2015 11:07:09 AM												



FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALLEY PAVEMENT ELEVATIONS				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\2023\Drawings\GADsheets\202310-sh-elev.dwg		CHECKED -	REVISED -		223	101 VBR	HENRY	139	75				
PLOT SCALE = 20.0000' / in.		DATE -	REVISED -		CONTRACT NO. 64F84								
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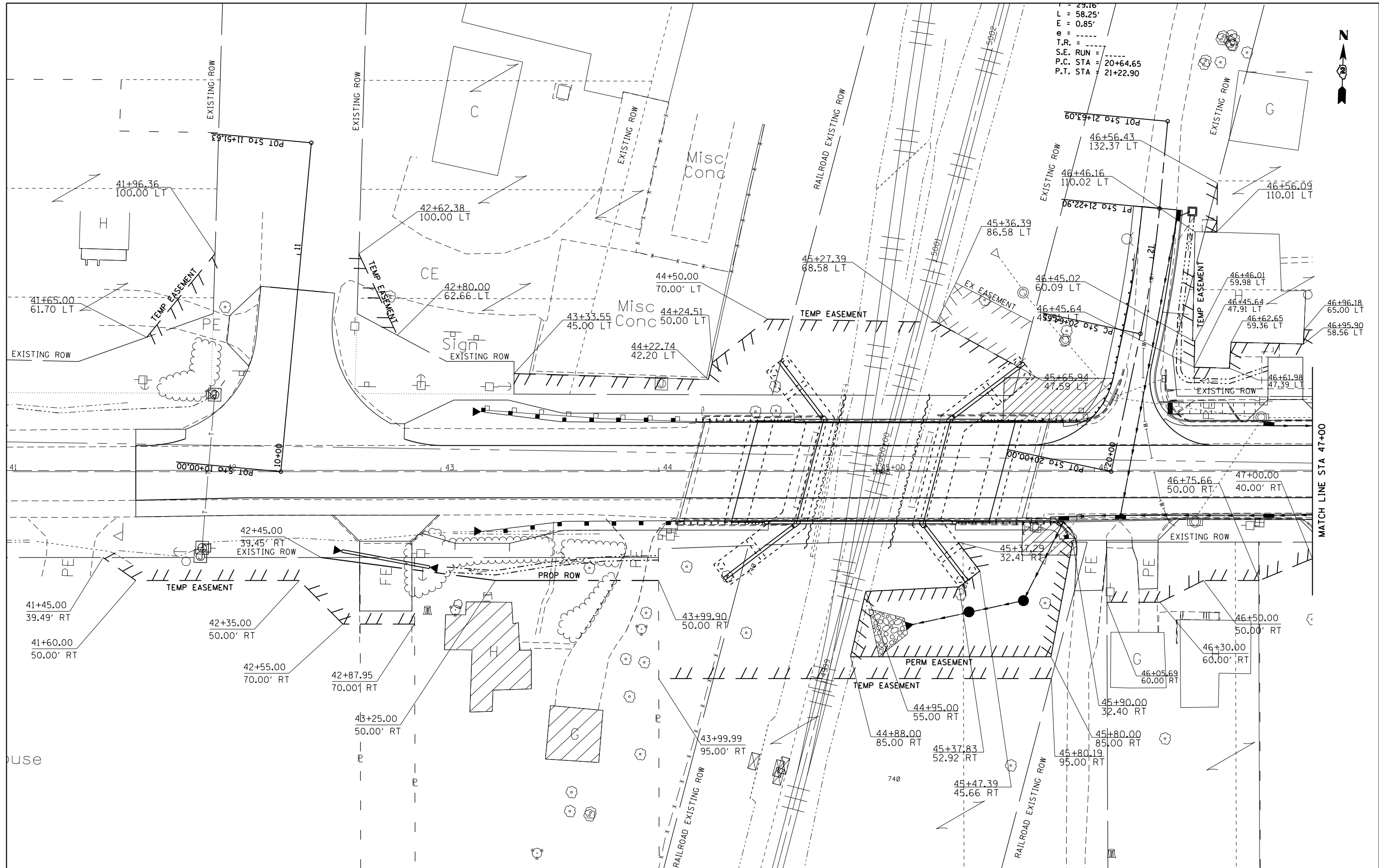


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALLEY PAVEMENT ELEVATIONS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	76
				CONTRACT NO. 64F84
ILLINOIS FED. AID PROJECT				



L = 29.16'
 L = 58.25'
 E = 0.85'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 20+64.65
 P.T. STA = 21+22.90



MATCH LINE STA 47+00

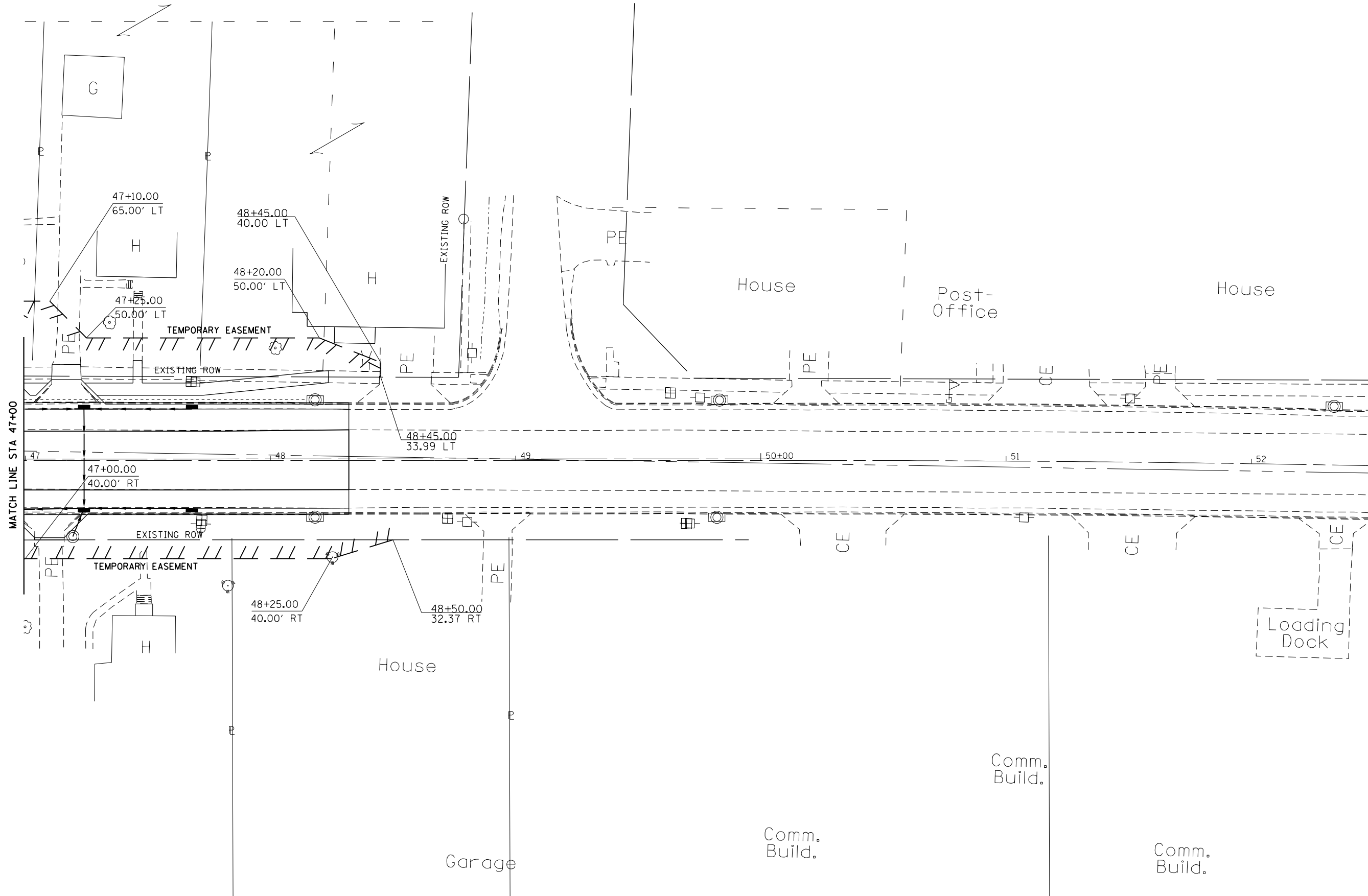
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

R.O.W AND EASEMENT SHEETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	77
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



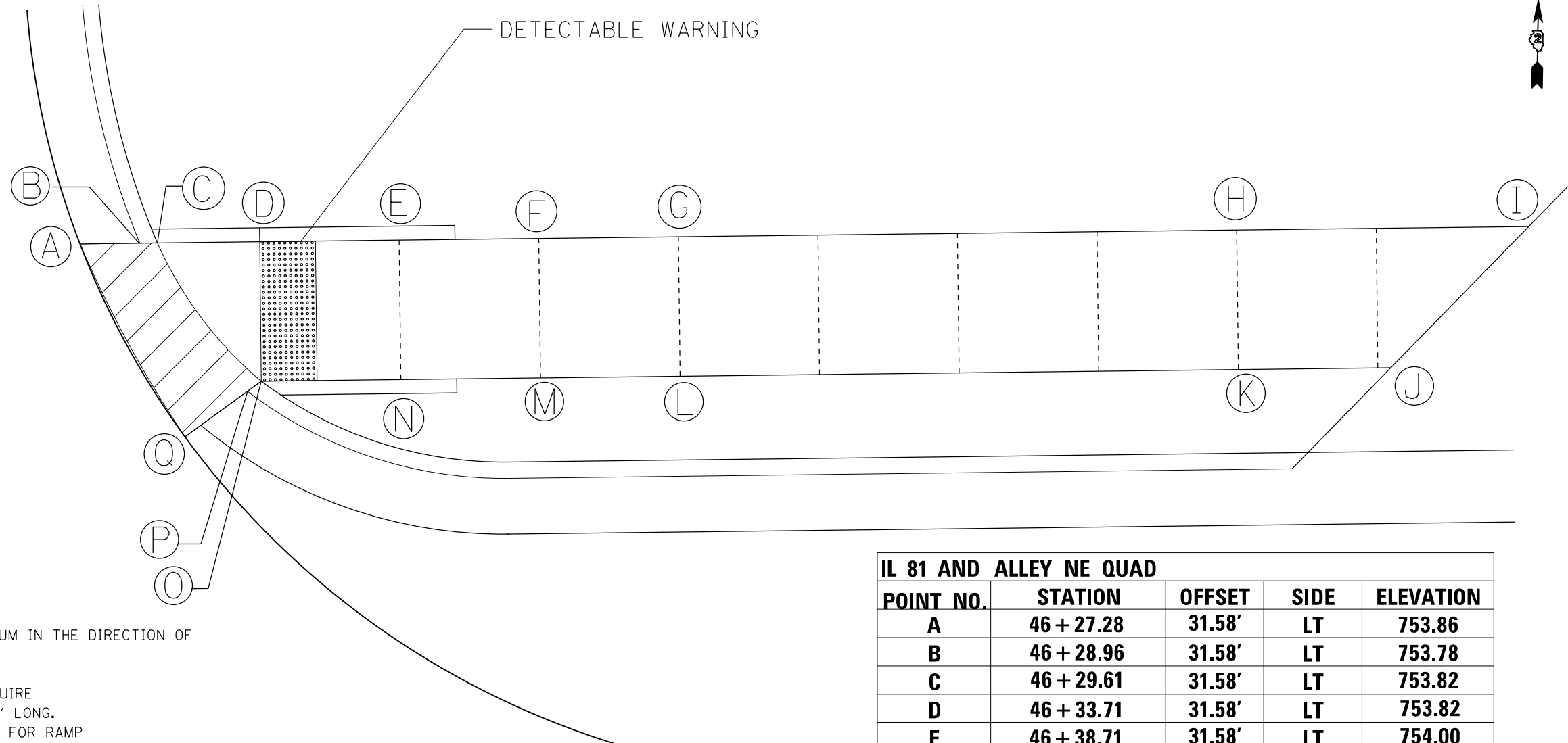
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

R.O.W AND EASEMENT SHEETS			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101 VBR	HENRY	139	78
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

ALLEY

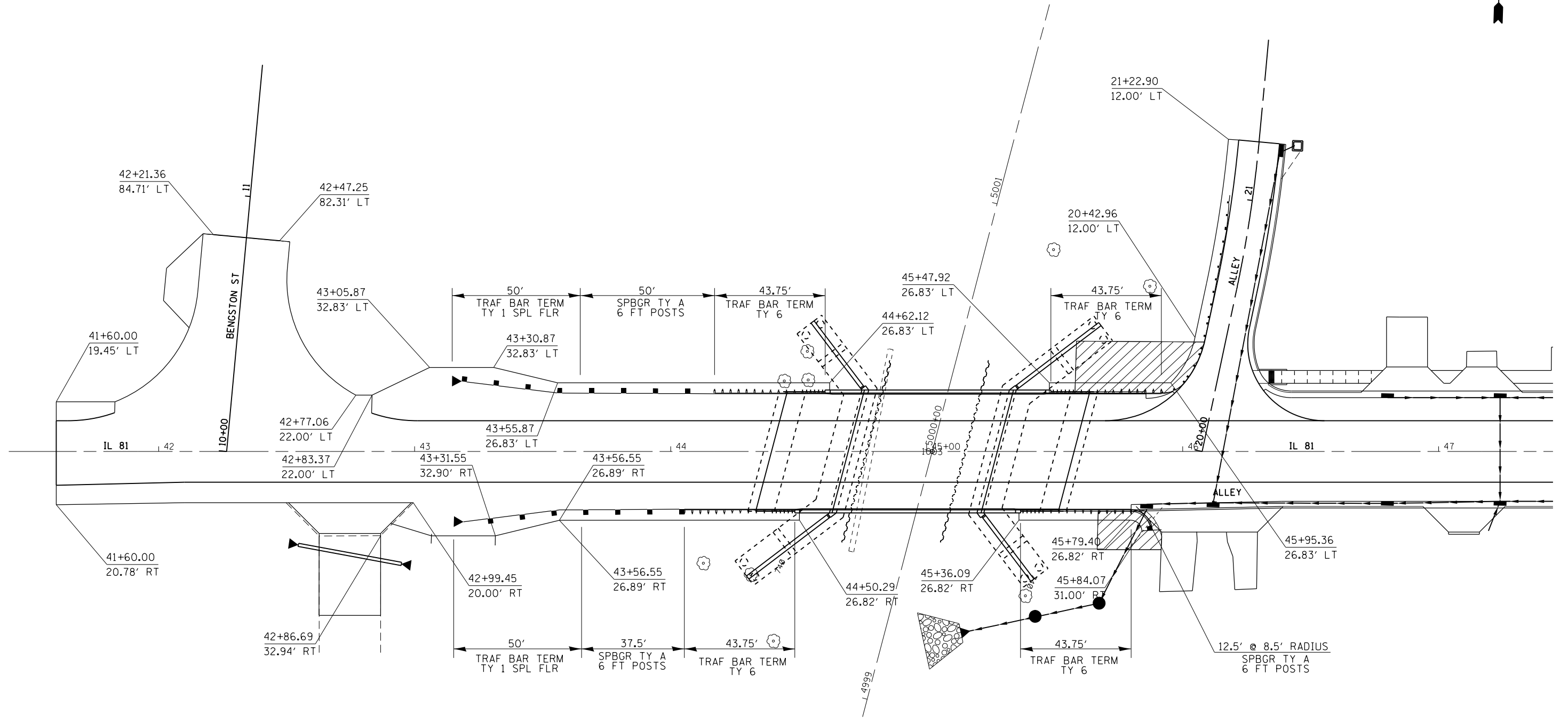


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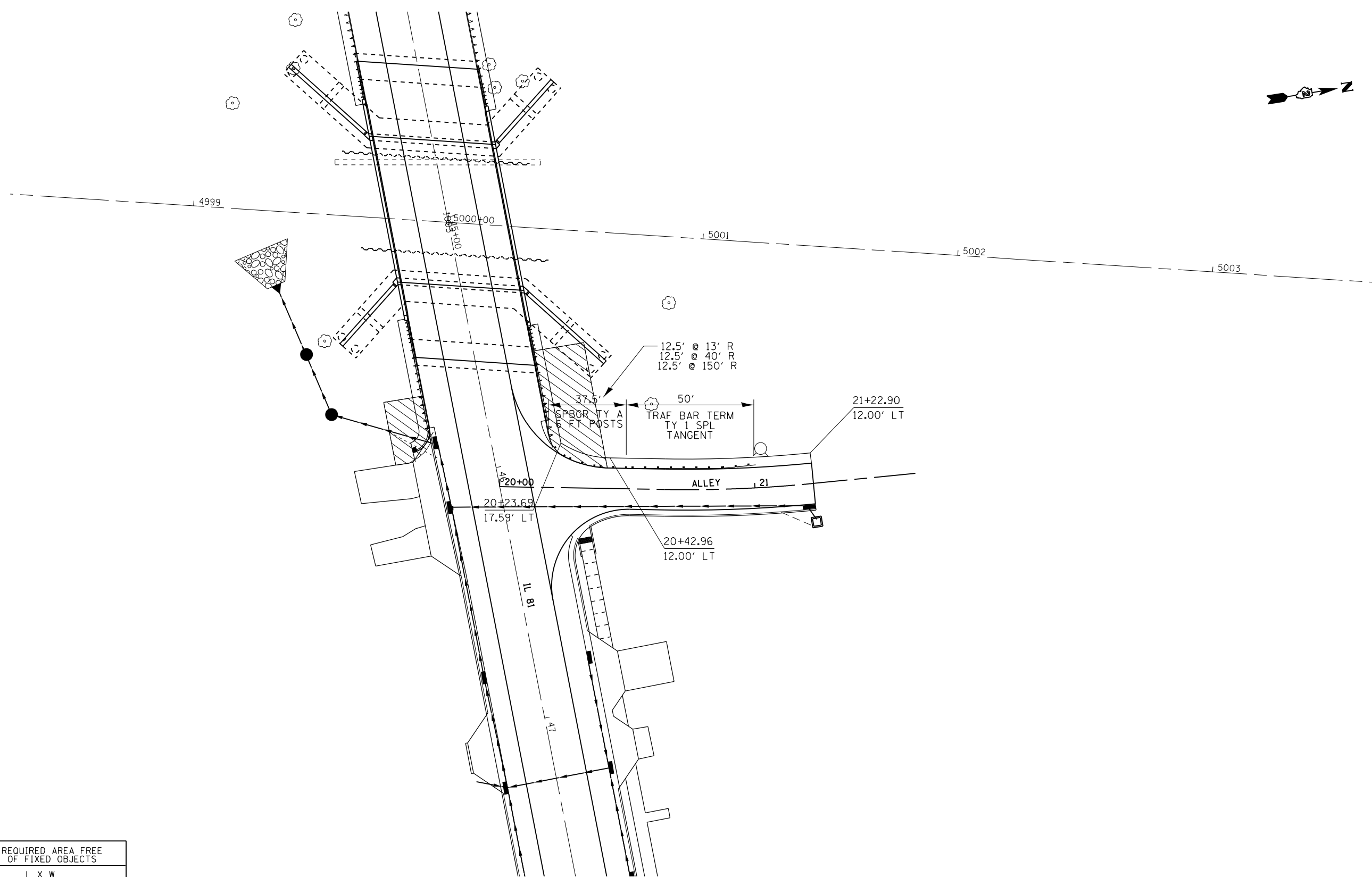
- ALL DETECTABLE WARNINGS ARE 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ALL RAMP SLOPES GREATER THAN 1:20 REQUIRE AN UPPER LEVEL LANDING A MINIMUM OF 5' LONG. UPPER LEVEL LANDINGS ARE NOT REQUIRED FOR RAMP SLOPES FLATTER THAN 1:20.
- MAXIMUM SLOPE OF SIDEWALK RAMP SHALL NOT EXCEED 1:12. SIDEWALK RAMPS SHALL ALSO BE A MAXIMUM LENGTH OF 15'.
- 6" WIDE VARIABLE HEIGHT CURB ALONG SIDEWALK SHALL BE MEASURED AND PAID AS PORTLAND CEMENT CONCRETE SIDEWALK.
- DETECTABLE WARNINGS ASSUME THE USE OF PREFABRICATED TILE WITH NO FIELD CUTTING REQUIRED.
- CURB RAMPS SHALL COMPLY WITH "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY", LATEST EDITION, PUBLISHED BY THE U.S. ACCESS BOARD AND FINAL REPORT OF THE U.S. ACCESS BOARD PUBLISHED JANUARY 2011 ENTITLED "INITIATIVE ON THE DIMENSIONAL TOLERANCES IN CONSTRUCTION, DIMENSIONAL TOLERANCES FOR SURFACE ACCESSIBILITY."

IL 81

IL 81 AND ALLEY NE QUAD				
POINT NO.	STATION	OFFSET	SIDE	ELEVATION
A	46 + 27.28	31.58'	LT	753.86
B	46 + 28.96	31.58'	LT	753.78
C	46 + 29.61	31.58'	LT	753.82
D	46 + 33.71	31.58'	LT	753.82
E	46 + 38.71	31.58'	LT	754.00
F	46 + 43.71	31.58'	LT	754.22
G	46 + 48.71	31.58'	LT	754.39
H	46 + 68.71	31.58'	LT	754.17
I	46 + 78.22	31.58'	LT	753.96
J	46 + 73.22	26.58'	LT	753.90
K	46 + 68.71	26.58'	LT	754.12
L	46 + 48.71	26.58'	LT	754.34
M	46 + 43.71	26.58'	LT	754.19
N	46 + 38.71	26.58'	LT	754.05
O	46 + 33.71	26.58'	LT	753.87
P	46 + 32.78	26.58'	LT	753.83
Q	46 + 30.96	24.62'	LT	753.94



RADIUS	REQUIRED AREA FREE OF FIXED OBJECTS
	L X W
8'-6"	25' X 15' SOUTH SIDE
40'-0"	50' X 20' NORTH SIDE



RADIUS	REQUIRED AREA FREE OF FIXED OBJECTS L X W
8'-6"	25' X 15' SOUTH SIDE
40'-0"	50' X 20' NORTH SIDE

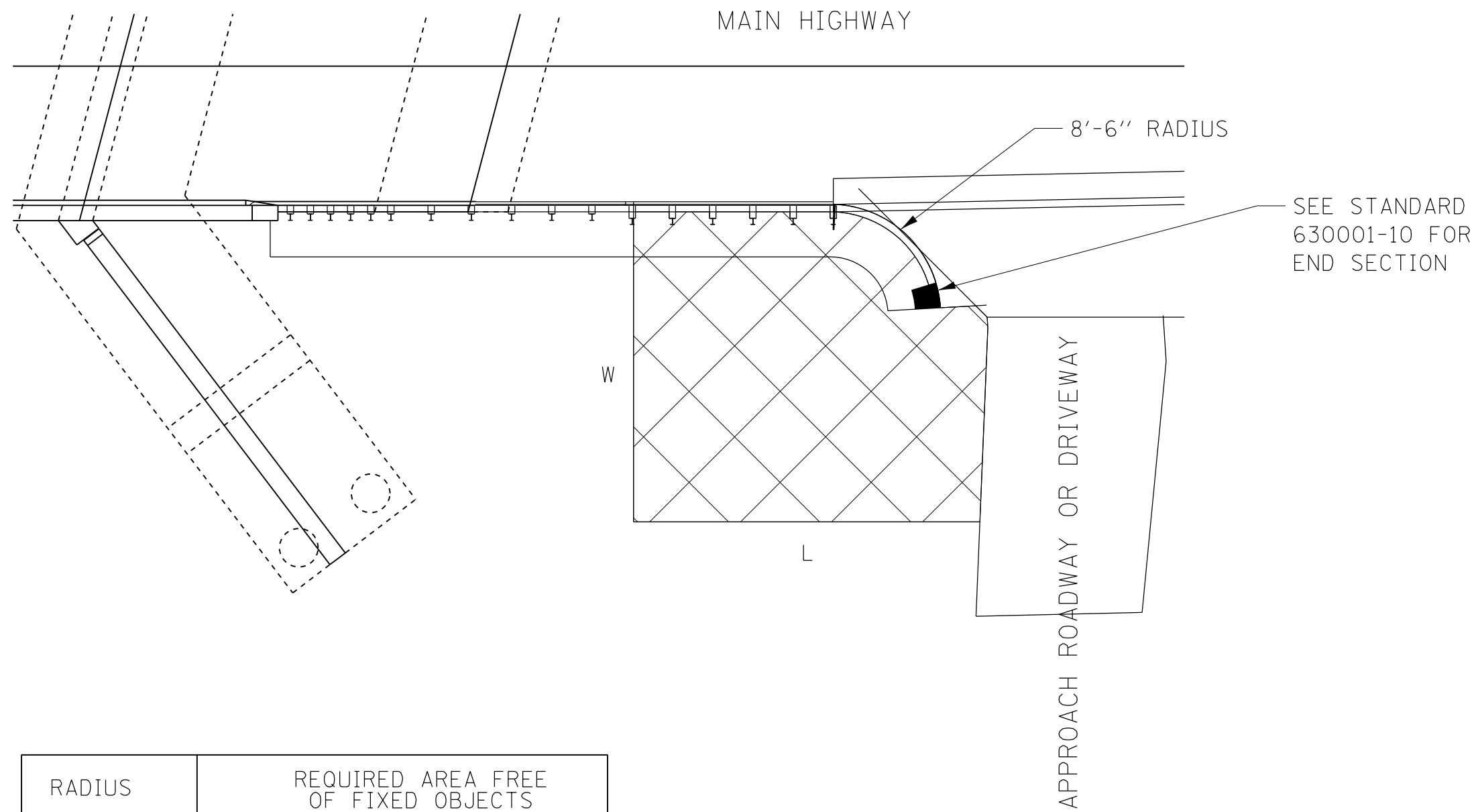
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Aug-03-2015 09:55:13 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAILS
IL 81 LYNN CENTER**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	81
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



RADIUS	REQUIRED AREA FREE OF FIXED OBJECTS
	L X W
8'-6"	25' X 15' SOUTH SIDE
40'-0"	50' X 20' NORTH SIDE

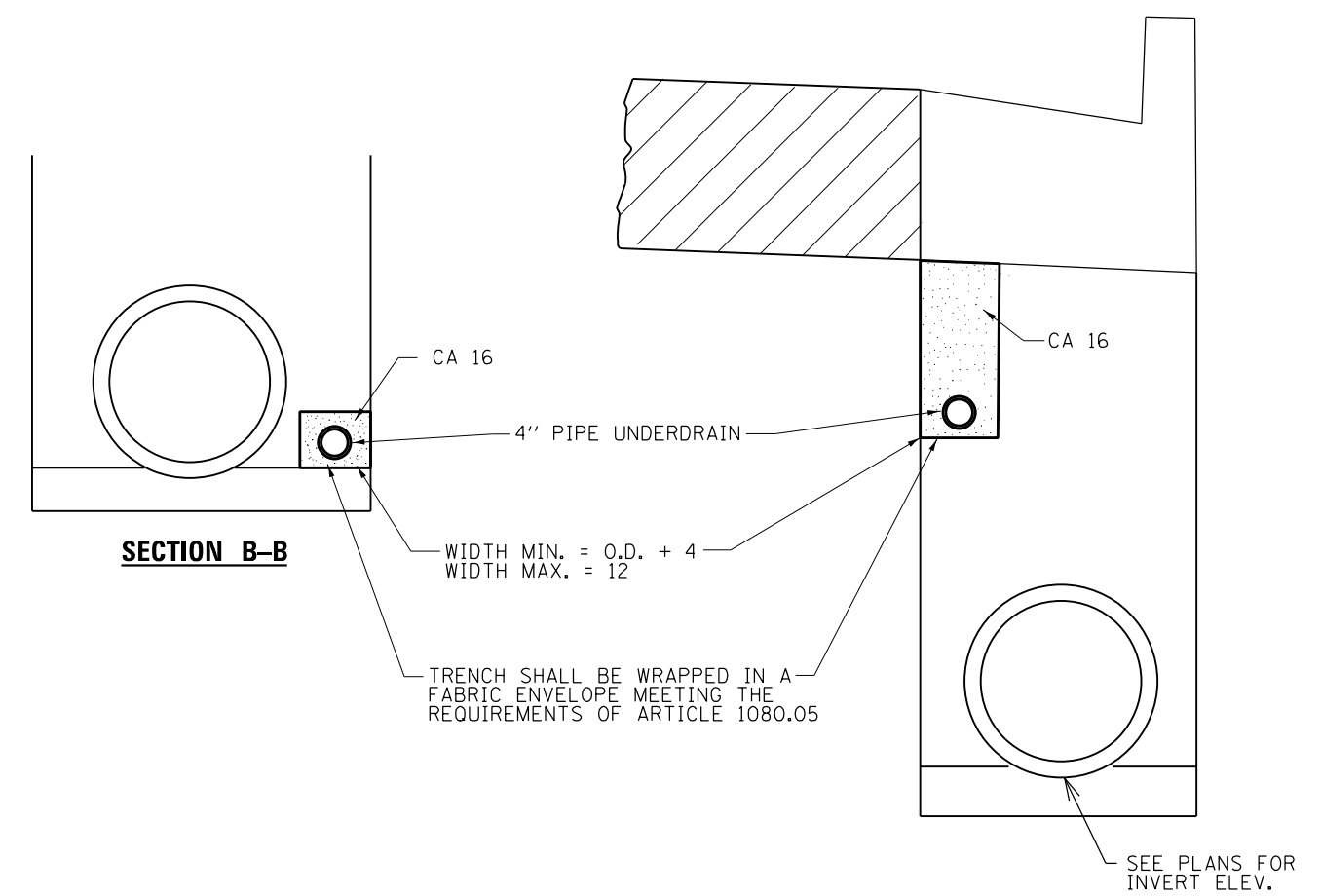
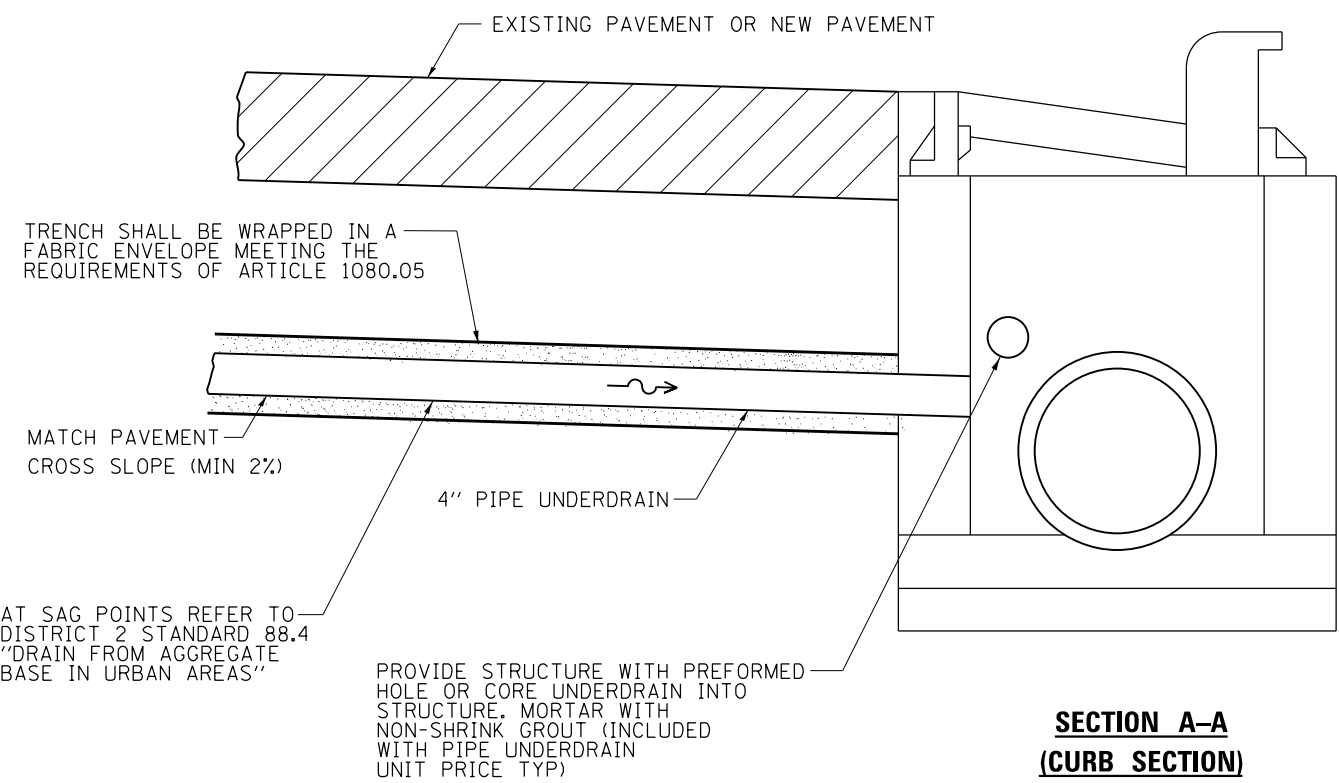
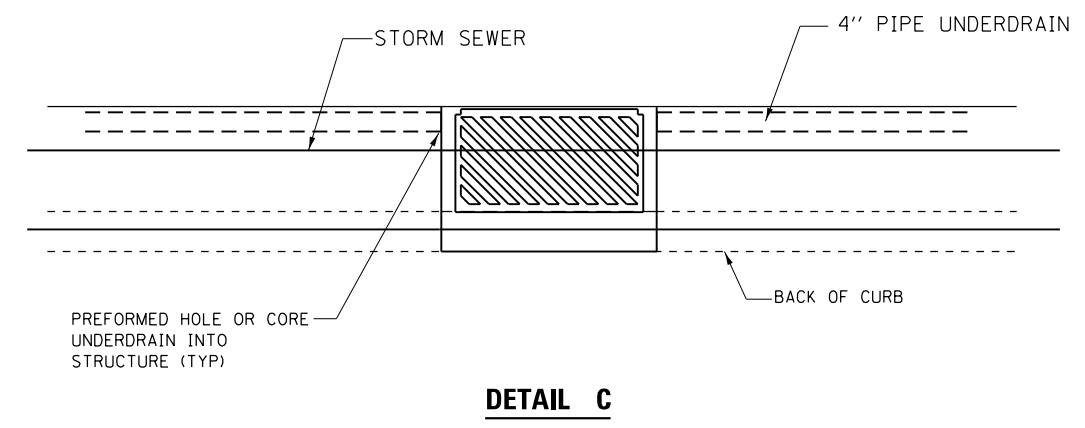
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Default	PLOT DATE = Aug-03-2015 09:54:07 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURVED GUARDRAIL DETAIL
8'-6" RADIUS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	82
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				



NOTES:

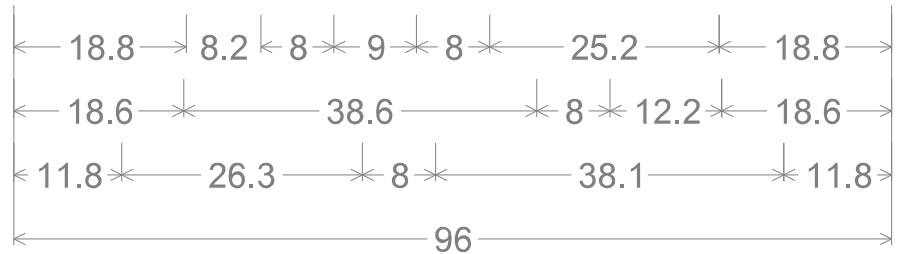
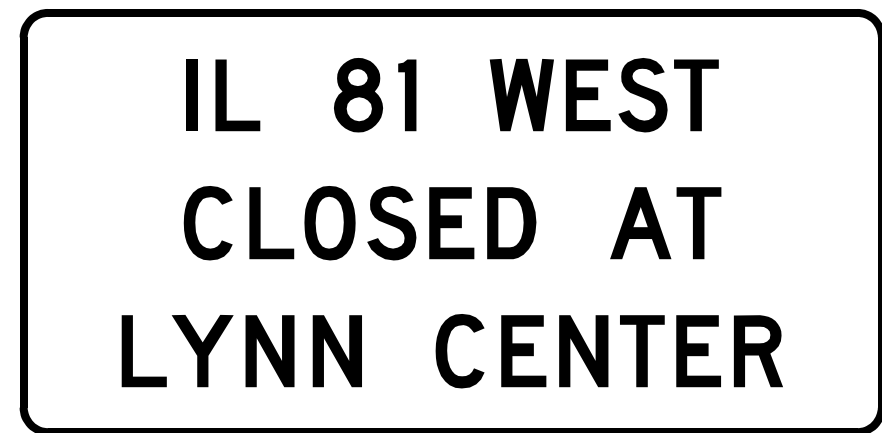
- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUB-SURFACE DRAIN DETAILS IL 81 (LYNN CENTER)				F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -						223	101VBR	HENRY	139	83
	PLOT SCALE = 20.0000' / in.	DATE -	REVISED -		CONTRACT NO. 64F84				ILLINOIS FED. AID PROJECT				
	PLOT DATE = Aug-03-2015 09:54:27 AM				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



2.25" Radius, 1.00" Border, 0.50" Indent, Black on Orange;
 [NO ACCESS] C 2K;
 [TO] C 2K;
 [LYNN CENTER] C 2K 75% spacing;
 Table of letter and object lefts.

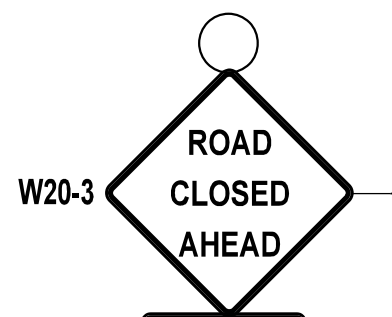
N	O						
4.50	9.13						
A	C	C	E	S	S		
18.63	23.25	27.63	32.25	36.00	40.13		
T	O						
20.38	24.13						
L	Y	N	N				
2.75	6.13	10.63	14.88				
C	E	N	T	E	R		
22.25	26.50	30.38	34.38	38.00	41.88		



0.9" Border, 0.6" Indent, Black on Orange;
 [IL 81 WEST] D 2K; [CLOSED AT] D 2K;
 [LYNN CENTER] D 2K;

Table of distances between letter and object lefts.

18.8	I	L	8	1	W	E	S	T	18.8		
3.2	13.0	7.0	10.0	8.4	5.7	6.1	5.0	18.8			
18.6	C	L	O	S	E	D	A	T	18.6		
7.2	6.0	6.8	6.8	6.4	13.4	7.3	4.9	18.6			
11.8	L	Y	N	N	C	E	N	T	E	R	11.8
5.4	8.1	7.4	13.4	7.2	6.3	6.7	6.1	6.4	5.4	11.8	






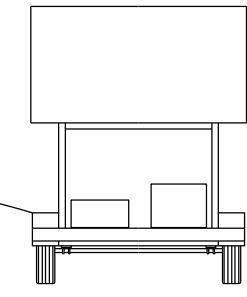
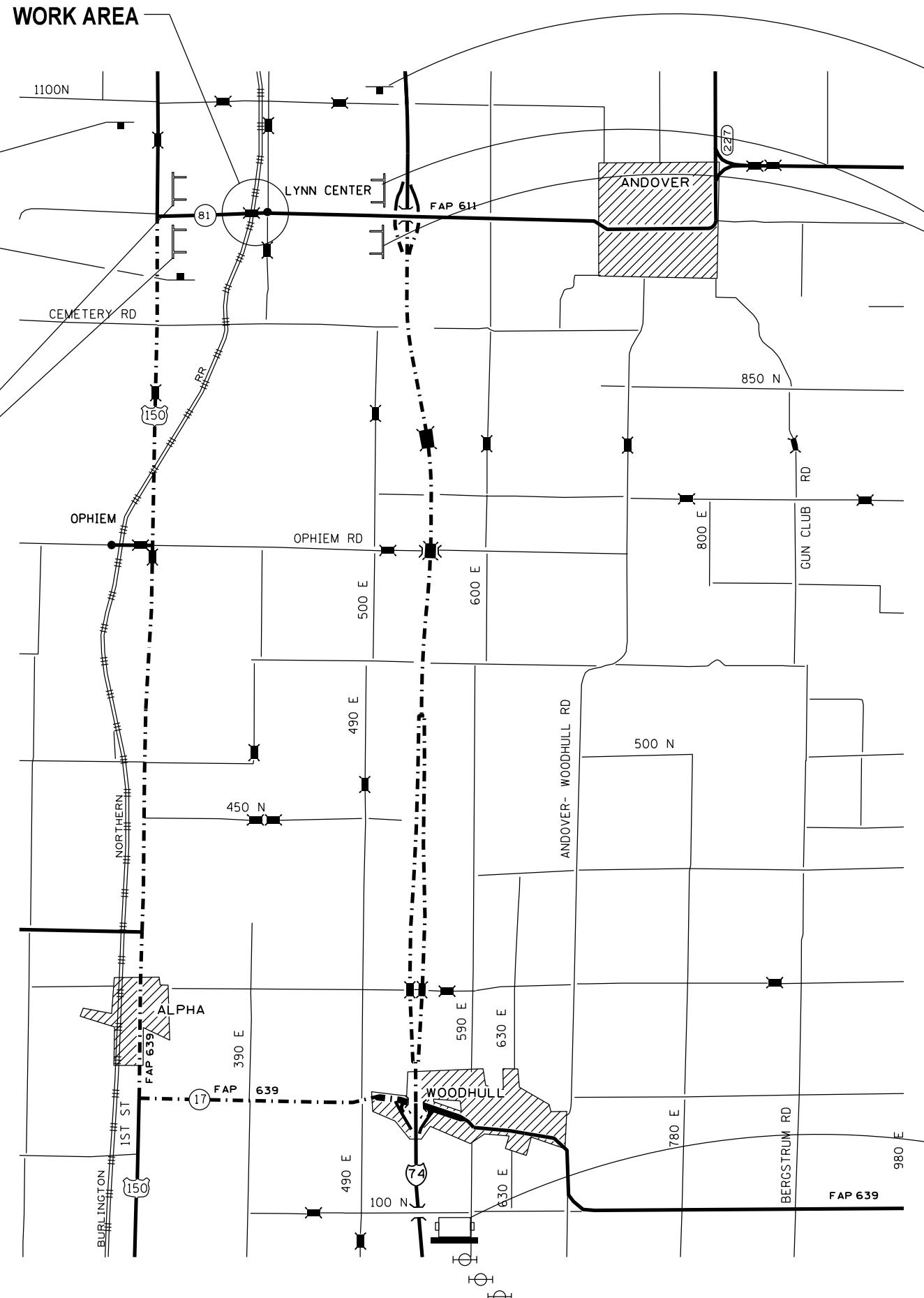
R11-3a-6030



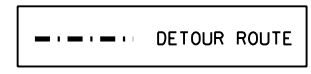
R11-3a-6030

SYMBOLS

-  Portable changeable message sign
-  Sign
-  Type II barricade, drum, or vertical barricade with monodirectional flashing light

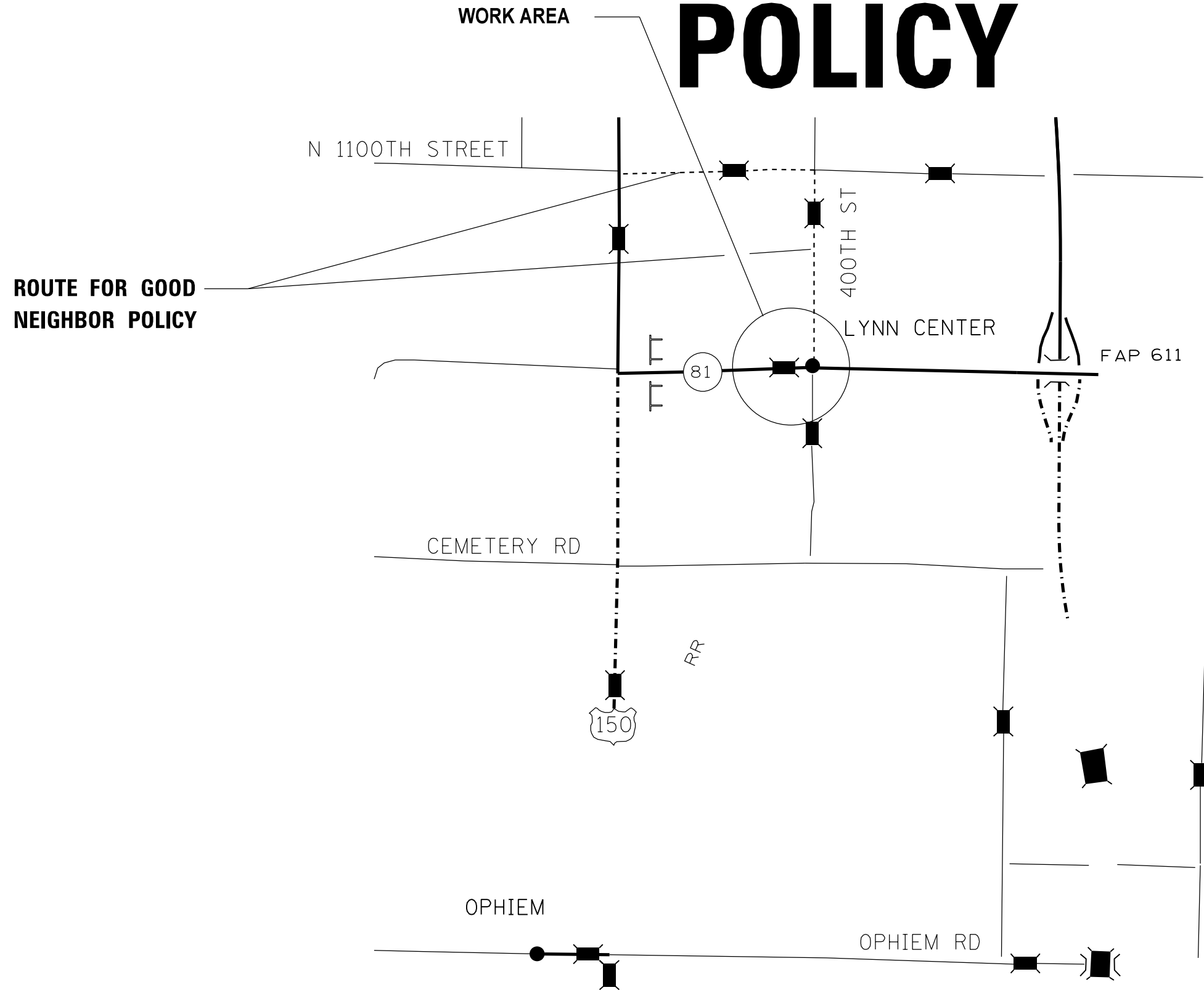


The message board shall be used to display status of lanes within the project. The primary messages shall be:
 "IL 81 CLOSED"
 "OPEN TO LYNN CENTER"
 "FOLLOW DETOUR EXIT NOW"

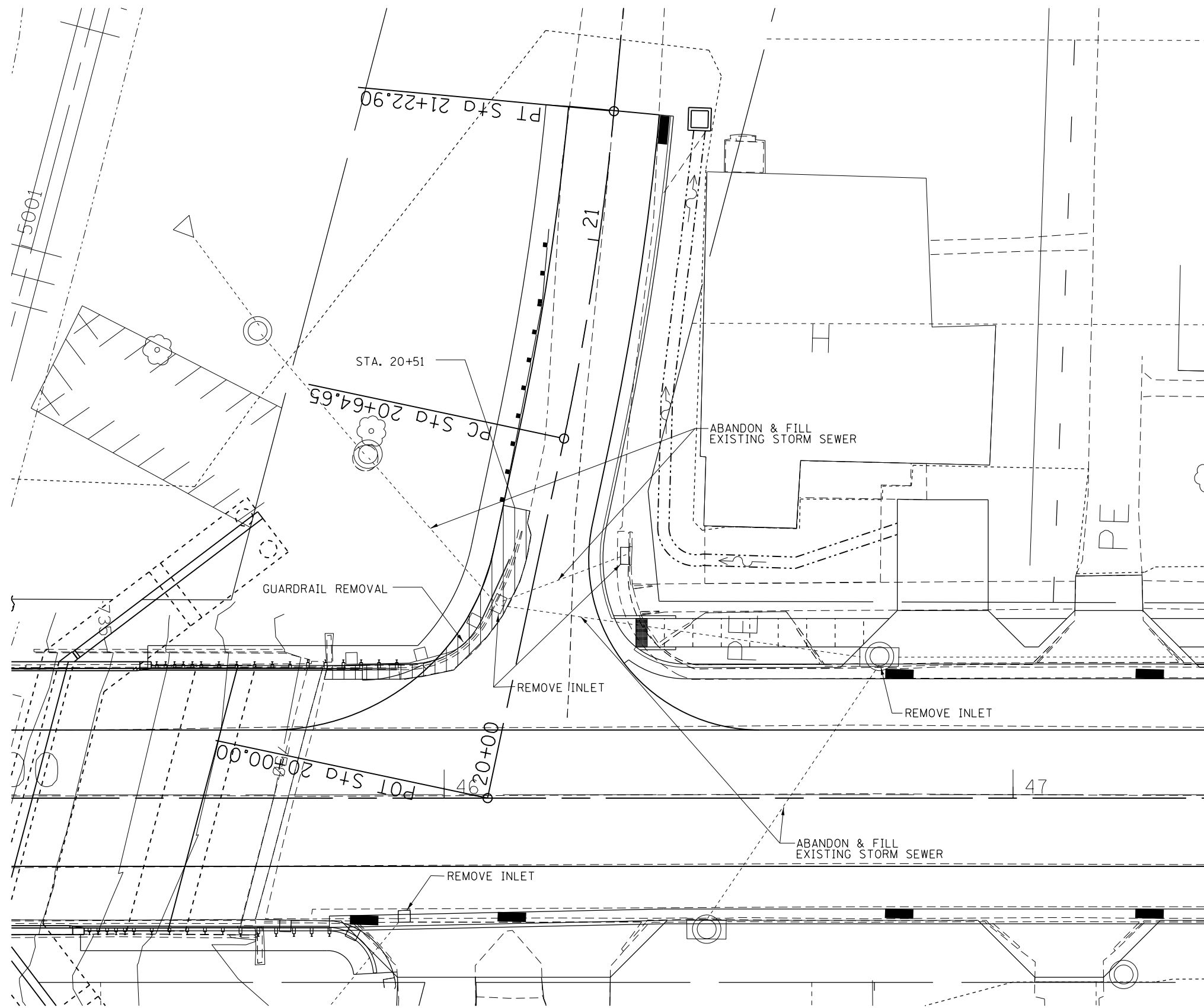


FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROAD CLOSURE PLAN - IL 81				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT DATE = Aug-03-2015 09:55:58 AM	CHECKED -	REVISED -						223	101VBR	HENRY	139	85
		DATE -	REVISED -		CONTRACT NO. 64F84				ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

GOOD NEIGHBOR POLICY



FILE NAME =	USER NAME = FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GOOD NEIGHBOR POLICY			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 64F84				
					ILLINOIS FED. AID PROJECT							



LEGEND

	PAVEMENT WIDENING
--	-------------------

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

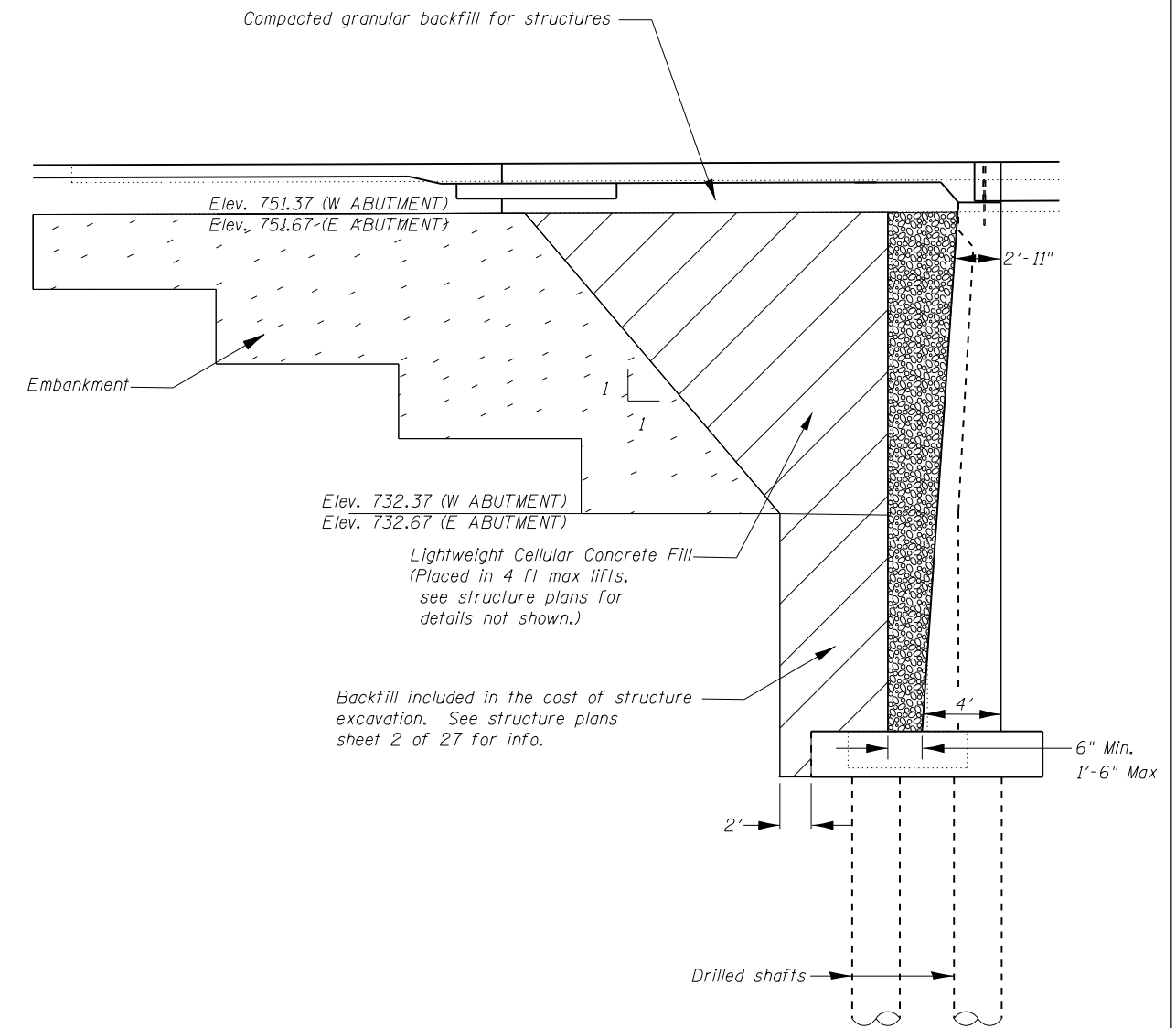
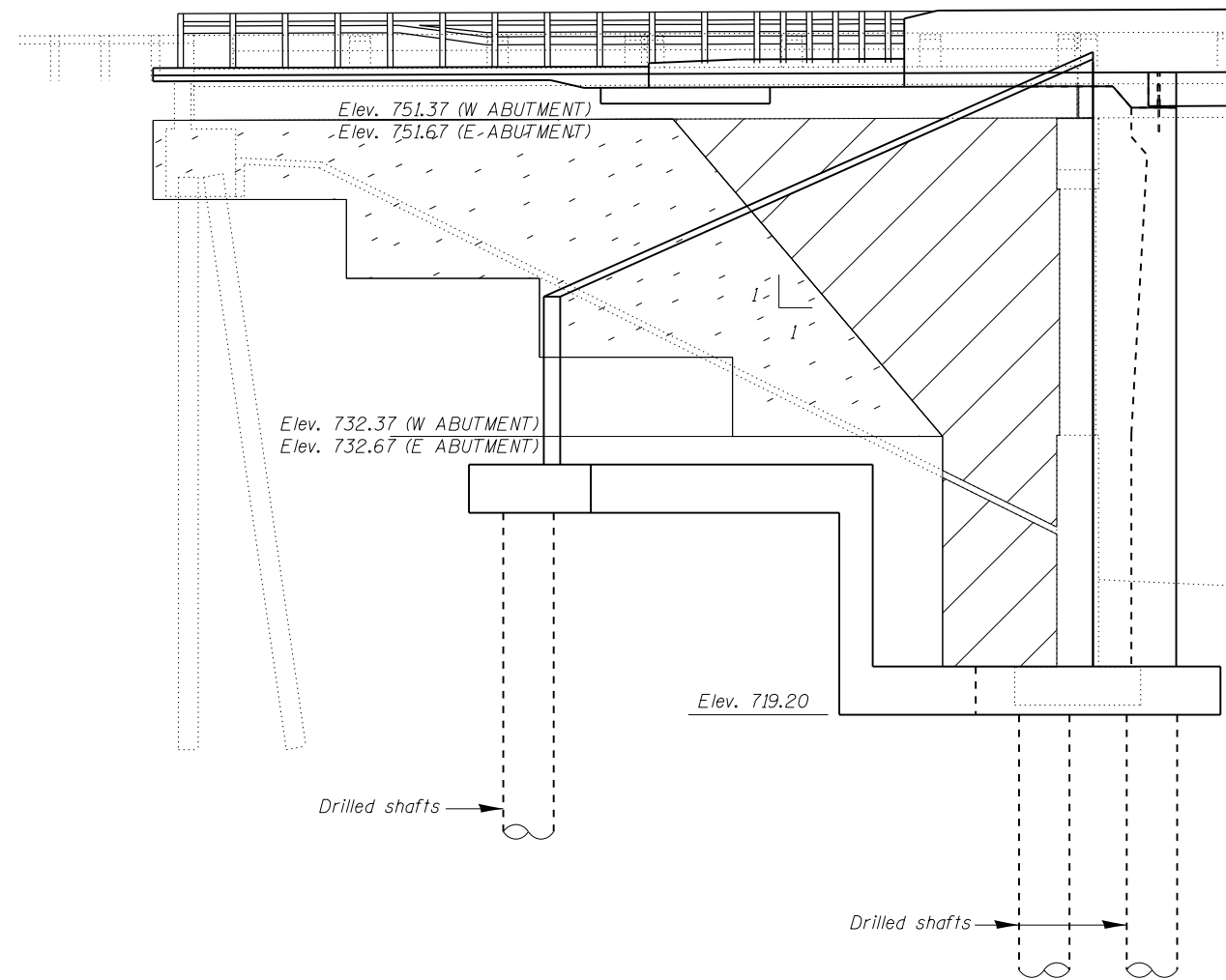
PAVEMENT WIDENING

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	87
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

ABUTMENT DETAIL

INFORMATION ONLY



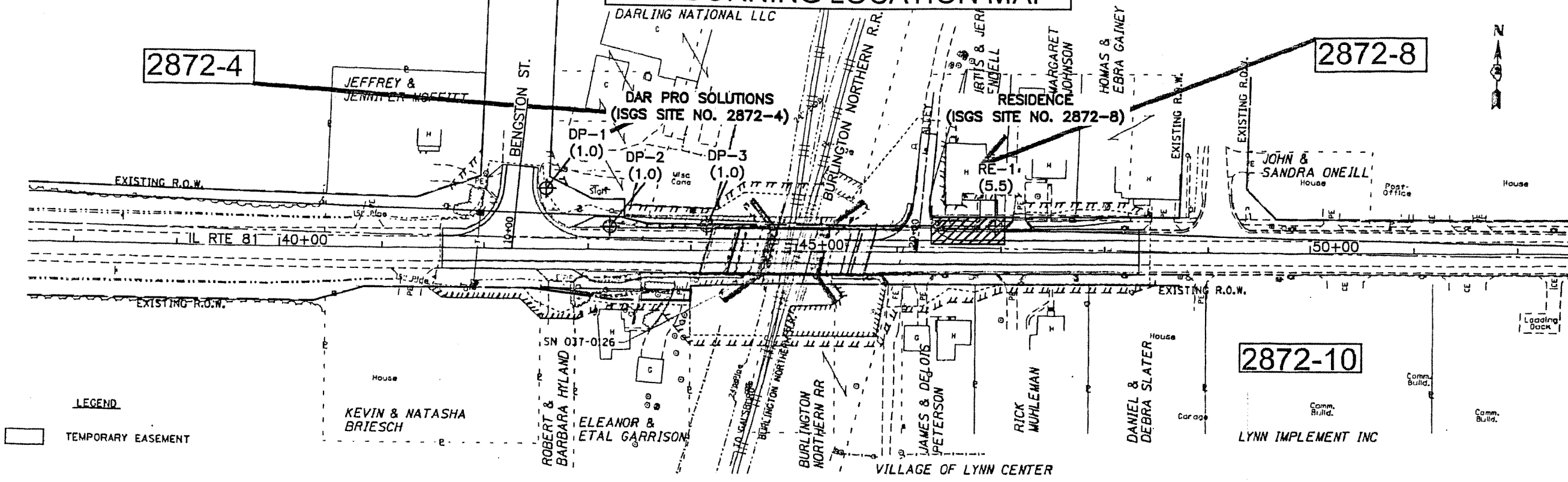
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Default		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAIL	
INFORMATION ONLY	
SCALE:	SHEET OF SHEETS STA. TO STA.

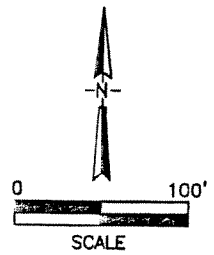
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	88
CONTRACT NO. 64F84				
ILLINOIS FED. AID PROJECT				

SOIL BORING LOCATION MAP



LEGEND

- EXISTING R.O.W.
- PROPOSED R.O.W.
- SOIL BORING LOCATION
- (5.5) MAXIMUM CONSTRUCTION DEPTH (IN FEET)
- GEOPHYSICAL SURVEY AREA



WESTON SOLUTIONS
300 Plaza Circle
Suite 202
Mundelein, Illinois
60060

SOIL BORING LOCATION MAP
FAS 223: IL ROUTE 81 OVER BNSF RAILROAD
FROM STATION 40+00 TO 50+00
ILLINOIS DEPARTMENT OF TRANSPORTATION
Lynn Center, Henry County, Illinois

FIGURE 3-1

FILE NAME *	USER NAME = FASLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOCATION MAP IL 81 (LYNN CENTER)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill884EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\F2023\DRAWING\GAD\shets\202310-sh1-detail	DRACIND\GAD\shets\202310-sh1-detail	CHECKED -	REVISED -			223	101VBR	HENRY	139	90
Default	PLOT DATE = Jul-31-2015 08:24:38 AM	DATE -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 64F84		ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
81	10IVB	HENRY	14	1
FED. ROAD DIV. NO. 1	ILLINOIS	PROJECT		

P-92-037-66 (073)



INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	TYPICAL SECTION, GENERAL NOTES, SUMMARY OF QUANTITIES
3	PLAN & PROFILE
4	BITUMINOUS APPROACHES & MAIL BOX TURNOUTS
5	GENERAL PLAN AND ELEVATION
6	PRESTRESSED DECK BEAMS 3 FT
7	PRESTRESSED DECK BEAMS 4 FT
8	CONCRETE HANDRAIL
9	EAST ABUTMENT
10	WEST ABUTMENT
11	PIER NO 1
12	PIER NO 2
13	PILE DETAILS
14	BORING DATA
STD 2116-1	PCC PATCHING DETAIL
2239-4	WIDENING AND SHOULDERS
2298-2	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2299-1	DESIGN OF TRAFFIC CONTROL DEVICES
2300	FLAGMAN TRAFFIC CONTROL SIGN
2302-1	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2303-2	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2304-1	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2307-2	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2113-1	DETAIL OF NAME PLATE FOR BRIDGES

SCALES

PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	8 FT.

S.B.I. ROUTE 81
SECTION 10IVB
HENRY COUNTY

C-92-012-71

SECTION 10IVB BEGINS STA. 37+00.0

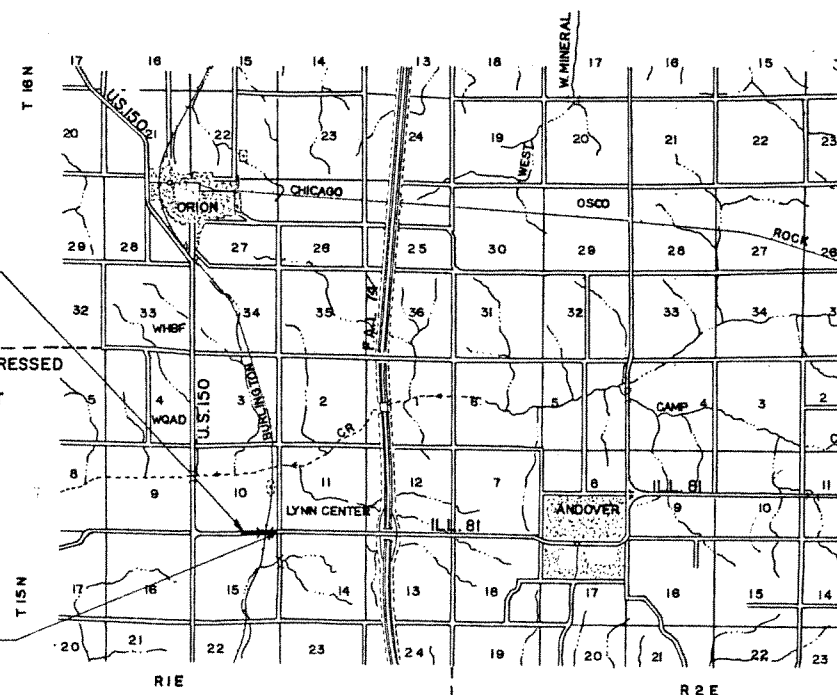
SECTION 10IVB

INCLUDES THE REMOVAL OF EXISTING STRUCTURE AND CONSTRUCTION OF A 3 SPAN PRECAST, PRESTRESSED DECK BEAM STRUCTURE (CARRYING ILLINOIS ROUTE 81 OVER THE BURLINGTON NORTHERN TRACKS) ON R.C. PIERS AND PILE BENT ABUTMENTS, SPANS 2 @ 52'-1 1/2", 1 @ 52'-9 1/4" AT STA. 44+64.5

SECTION 10IVB ENDS STA. 51+00.0

DESIGN DESIGNATION

SBI.-81 210(92) AREA SERVICE



LAYOUT SCALE 1"=1 MILE

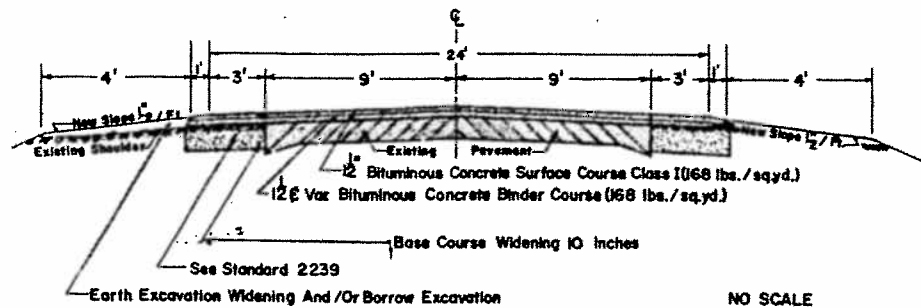
NET LENGTH OF SECTION = 1400.0' = 0.265 MILES

CONTRACT NO. 28428

FILE NAME *	USER NAME * FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS - FOR INFORMATION ONLY IL 81 (LYNN CENTER)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -			223	10IVB	HENRY	139	91
	PLOT DATE = Jul-31-2015 08:29:45 AM	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.

TYPICAL SECTION

Widening & Resurfacing
STA 37+00-51+00
(Limits of Improvement)



NOTE: The thickness of Bituminous Mixture shown on the plans is the nominal thickness. Deviations from the nominal thickness will be permitted when such deviations occur due to irregularities in the existing base or surface on which the Bituminous Mixture is placed.

SUMMARY OF QUANTITIES

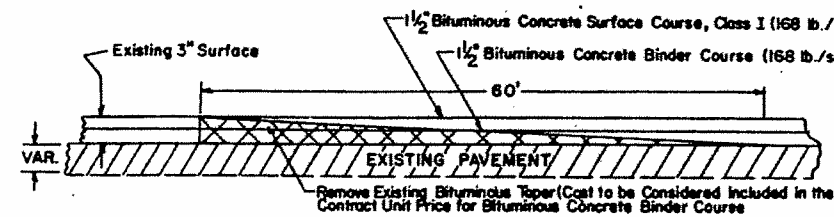
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 81	101VB	HENRY	14	2

CODE NO.	ITEM	UNIT	X180 TOTAL
202004	EARTH EXCAVATION (WIDENING)	CU YD	306 325.00
204001	BORROW EXCAVATION	CU YD	30 0.00
301001	AGGREGATE BASE COURSE, TYPE A	TON	223 17.00
X04164	BASE COURSE WIDENING, 10 INCHES	SQ YD	2,782 1,171.00
406002	BITUMINOUS MATERIALS (PRIME COAT)	TON	20 3.60
406003	AGGREGATE (PRIME COAT)	TON	10 4.00
406007	BITUMINOUS CONCRETE BINDER COURSE	TON	284 329.00
406008	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	322 469.00
501001	REMOVAL OF EXISTING STRUCTURES	EACH	1
502001	CLASS A EXCAVATION FOR STRUCTURES	CU YD	270 277.00
503004	PROTECTIVE COAT	SQ YD	151
504001	HANDRAIL CONCRETE	CU YD	3 8.90
504003	CLASS X CONCRETE	CU YD	284 259.00
505005	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	7,268
512001	REINFORCEMENT BARS	LBS	30,010
513021	FURNISHING CONCRETE PILES	LIN FT	788 716.00
513027	DRIVING CONCRETE PILES	LIN FT	788 665.00
513041	TEST PILE CONCRETE	EACH	1
514001	NAME PLATES	EACH	1
617001	PAVEMENT REMOVAL	SQ YD	22 13.20
617008	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ YD	320 240.00
618001	SLOPE WALL 4 INCH	SQ YD	588 823.00
620027	PAVEMENT REMOVAL AND PORTLAND CEMENT CONCRETE REPLACEMENT, TYPE III, 10 INCH	SQ YD	10 36.00
646002	ENGINEER'S FIELD OFFICE, TYPE B	EACH	1
Z10178	COAL TAR INTERLAYER PROTECTIVE COAT	SQ YD	288 773.00
Z10294	PREFORMED JOINT SEALER	LIN FT	97
FRC001	SPLICE 11-SHELL PILE	LUMP SUM	89.54
X09002	GUARD RAIL COMP	LUMP SUM	1,495.00
FRC003	RAILROAD FLAGGING	LUMP SUM	3,283.29
FRC005	RESHAPING DRIVEWAY ENTRANCE	LUMP SUM	573.44

TYPICAL BUTT JOINT

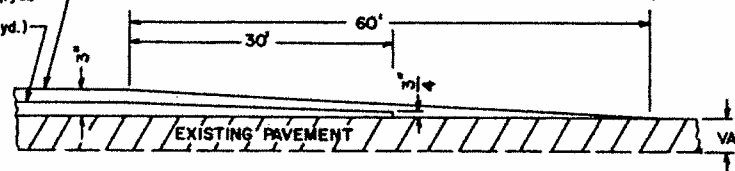
WIDTH	18'	20'	22'	24'	26'
Binder Course	7.4 Ton	8.4 Ton	9.2 Ton	10.0 Ton	11.0 Ton
Surface Course, Class I	12.8 Ton	14.0 Ton	15.4 Ton	16.8 Ton	18.2 Ton

TYPICAL BUTT JOINT WITH EXISTING BITUMINOUS SURFACE



TYPICAL END TAPER

WIDTH	18'	20'	22'	24'	26'
Binder Course	3.7 Ton	4.2 Ton	4.6 Ton	5.0 Ton	5.5 Ton
Surface Course, Class I	6.4 Ton	7.0 Ton	7.7 Ton	8.4 Ton	9.0 Ton



GENERAL NOTES

ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY
DATE February 3, 1971
DISTRICT ENGINEER D.E. Sumner

THE CONTRACTOR SHALL ERECT (2) BARRICADES CONFORMING TO STANDARD 2298 & 2299

AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS-SECTIONS TO DETERMINE PAY QUANTITIES.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

DISTRICT NO. 2 DIXON
DRAWN DATE
CHECKED SCALE

FILE NAME *	USER NAME * FASSLERMJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS - FOR INFORMATION ONLY IL 81 (LYNN CENTER)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Default	CHECKED -	REVISED -			223	101VBR	HENRY	139	92
Default	Default	DATE -	REVISED -			CONTRACT NO. 64F84		ILLINOIS FED. AID PROJECT		

SECTION IOI VB BEGINS STA. 37+00

A POINT LOCATED 1.619' W. OF THE SE. CORNER OF SECTION 10
T.15N., R.1E. OF THE 4th P.M.

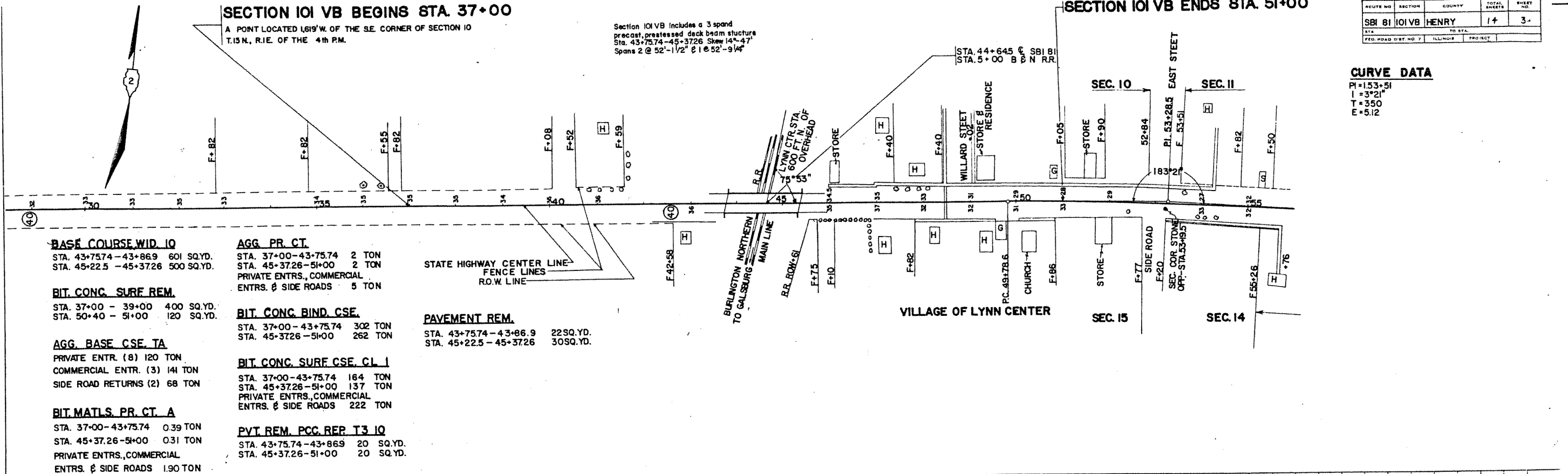
Section IOI VB includes a 3 span
precast, prestressed deck beam structure
Sta. 43+75.74-45+37.26 Skew 14°-47'
Spans 2 @ 52'-1/2" @ 1 @ 52'-9 1/4"

SECTION IOI VB ENDS STA. 51+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 81	IOI VB	HENRY	14	3
TO STA. FROM STA.				
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

CURVE DATA

PI=153+51
I=3°21'
T=350
E=5.12



BASE COURSE WID. IO

STA. 43+75.74-43+86.9 601 SQ.YD.
STA. 45+22.5-45+37.26 500 SQ.YD.

BIT. CONC. SURF REM.

STA. 37+00-39+00 400 SQ.YD.
STA. 50+40-51+00 120 SQ.YD.

AGG. BASE CSE. TA

PRIVATE ENTR. (8) 120 TON
COMMERCIAL ENTR. (3) 141 TON
SIDE ROAD RETURNS (2) 68 TON

BIT. MATLS. PR. CT. A

STA. 37+00-43+75.74 0.39 TON
STA. 45+37.26-51+00 0.31 TON
PRIVATE ENTR., COMMERCIAL
ENTRS. @ SIDE ROADS 1.90 TON

AGG. PR. CT.

STA. 37+00-43+75.74 2 TON
STA. 45+37.26-51+00 2 TON
PRIVATE ENTR., COMMERCIAL
ENTRS. @ SIDE ROADS 5 TON

BIT. CONC. BIND. CSE.

STA. 37+00-43+75.74 302 TON
STA. 45+37.26-51+00 262 TON

BIT. CONC. SURF CSE. CL I

STA. 37+00-43+75.74 164 TON
STA. 45+37.26-51+00 137 TON
PRIVATE ENTR., COMMERCIAL
ENTRS. @ SIDE ROADS 222 TON

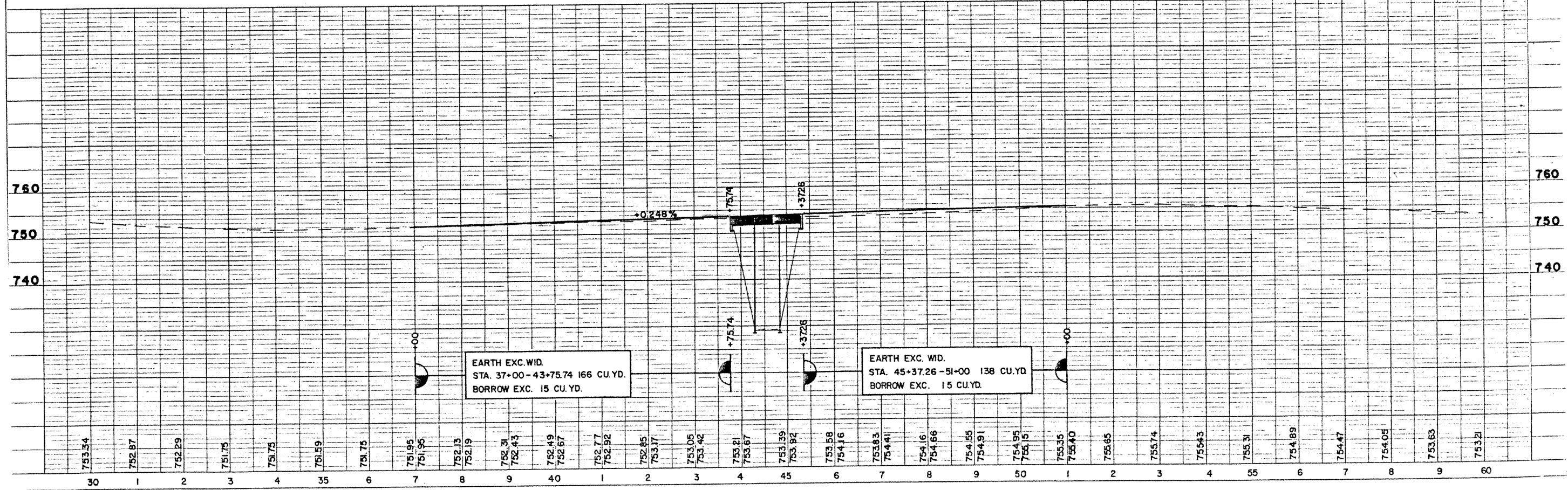
PVT. REM. PCC. REP. T3 IO

STA. 43+75.74-43+86.9 20 SQ.YD.
STA. 45+37.26-51+00 20 SQ.YD.

STATE HIGHWAY CENTER LINE
FENCE LINES
R.O.W. LINE

PAVEMENT REM.

STA. 43+75.74-43+86.9 22 SQ.YD.
STA. 45+22.5-45+37.26 30 SQ.YD.



FILE NAME	USER NAME	DESIGNED	REVISED
pw\1\884EBID\INTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 2\Projects\P202\DRAWING Data\GAD\Sheets\0282318-sht-detail	FASLEMMU	-	-
PLOT SCALE = 48.0000' / in.	CHECKED	-	REVISED
PLOT DATE = Jul-31-2015 08:29:58 AM	DATE	-	REVISED

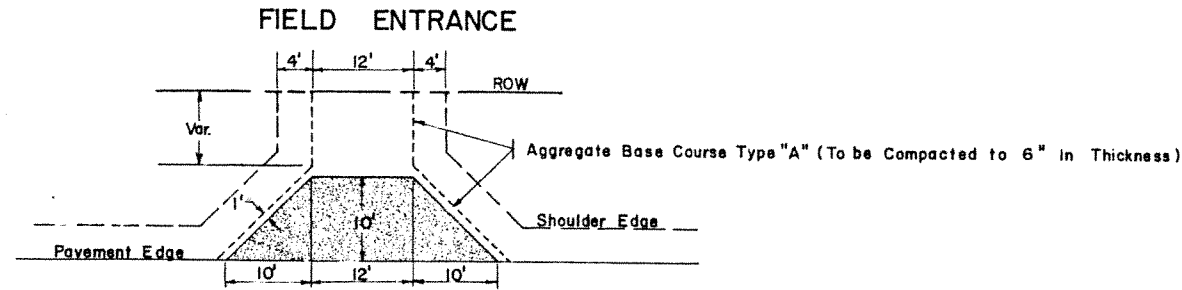
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY			
IL 81 (LYNN CENTER)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

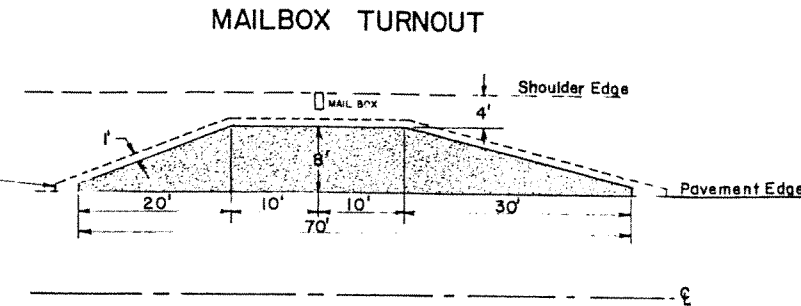
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	IOI VBR	HENRY	139	93
CONTRACT NO. 64F64				
ILLINOIS FED. AID PROJECT				

BITUMINOUS APPROACHES & MAILBOX TURNOUTS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 81	101VB	HENRY	14	4
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

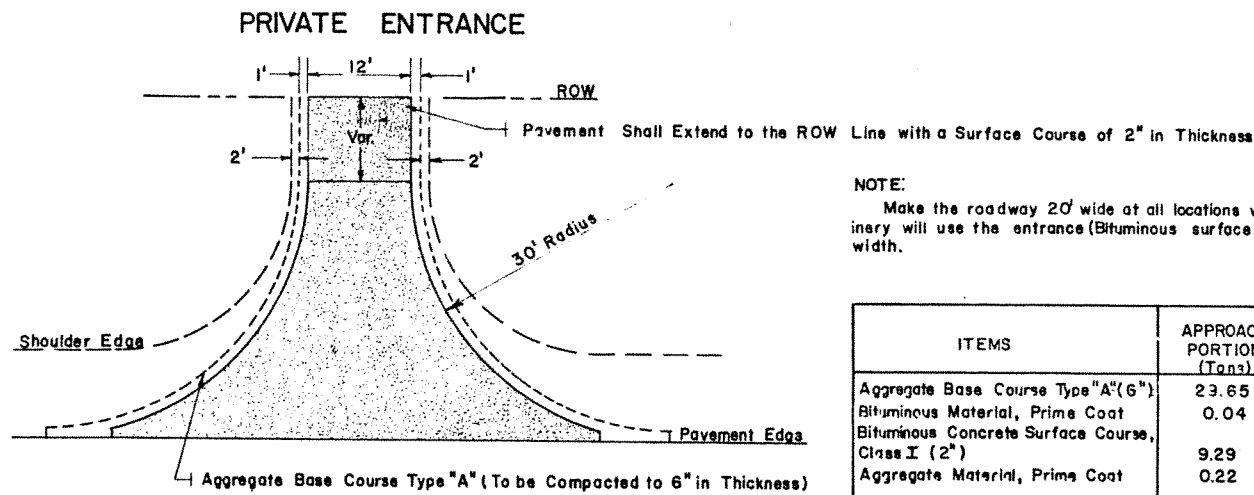


ITEMS	APPROACH PORTION (Tons)	STRAIGHT PORTION (Tons/Lin.Ft.)
Aggregate Base Course Type "A" (6")	9.60	0.46
Bituminous Material, Prime Coat	0.04	—
Bituminous Concrete Surface Course, Class I (2")	2.74	—
Aggregate Material, Prime Coat	0.07	—



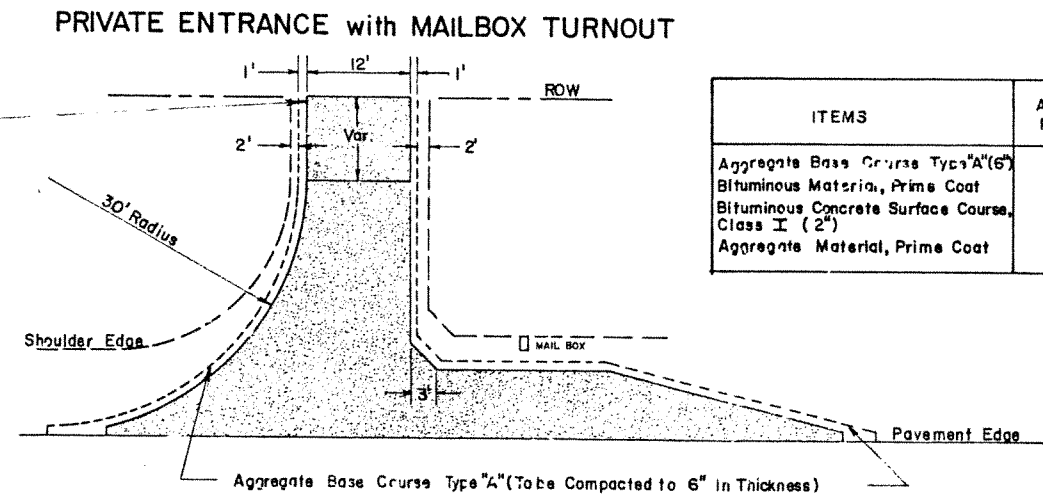
ITEMS	QUANTITIES (Tons)
Aggregate Base Course Type "A" (6")	15.72
Bituminous Material, Prime Coat	0.07
Bituminous Concrete Surface Course, Class I (2")	4.48
Aggregate Material, Prime Coat	0.12

NOTE:
When a mailbox turnout falls next to a private entrance, place the mailbox on the side from which the mail carrier approaches the mailbox. Part of the drive will be used as the mailbox turnout. If two drives are next to each other place both mailboxes between the drives. In this case the two drives will serve as the major portion of the turnout. Mailbox turnouts that are located behind the existing gutter will not be gravelled.

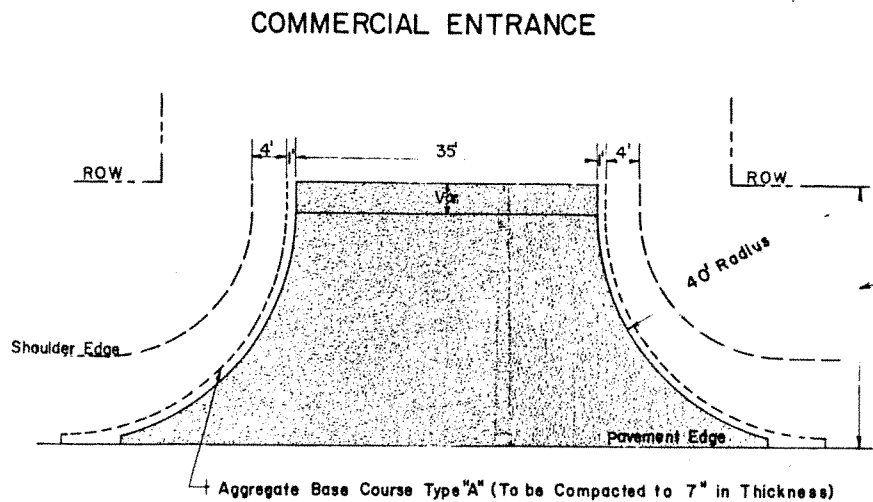


NOTE:
Make the roadway 20' wide at all locations where farm machinery will use the entrance (Bituminous surface will remain 12' in width).

ITEMS	APPROACH PORTION (Tons)	STRAIGHT PORTION (Tons/Lin.Ft.)
Aggregate Base Course Type "A" (6")	23.65	0.53
Bituminous Material, Prime Coat	0.04	0.002
Bituminous Concrete Surface Course, Class I (2")	9.29	0.15
Aggregate Material, Prime Coat	0.22	0.004

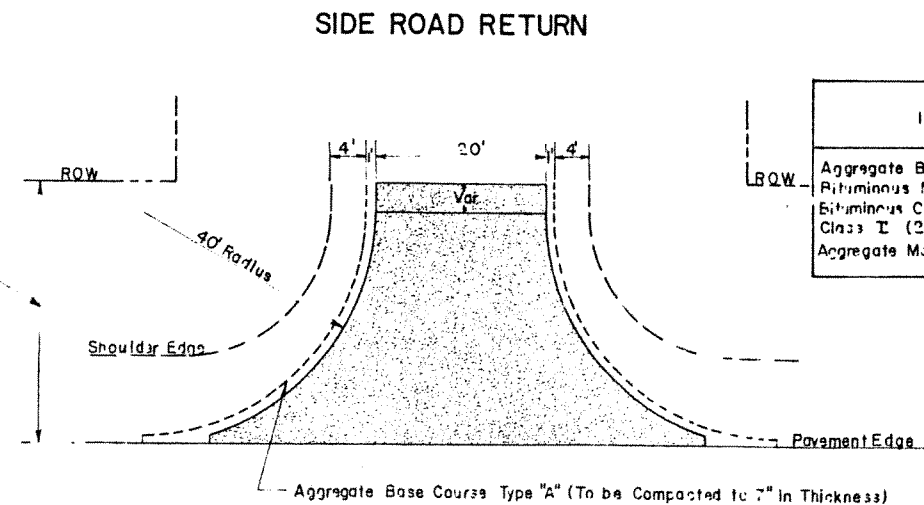


ITEMS	APPROACH PORTION (Tons)	STRAIGHT PORTION (Tons/Lin.Ft.)
Aggregate Base Course Type "A" (6")	36.86	0.53
Bituminous Material, Prime Coat	0.16	0.002
Bituminous Concrete Surface Course, Class I (2")	10.91	0.15
Aggregate Material, Prime Coat	0.27	0.004



NOTE:
Surface that is beyond the ROW Line shall be of the same general type as the existing surface of the side road.

ITEMS	APPROACH PORTION (Tons)	STRAIGHT PORTION (Tons/Lin.Ft.)
Aggregate Base Course Type "A" (7")	94.46	1.64
Bituminous Material, Prime Coat	0.36	0.006
Bituminous Concrete Surface Course, Class I (2 1/2")	32.46	0.54
Aggregate Material, Prime Coat	0.59	0.010



ITEMS	APPROACH PORTION (Tons)	STRAIGHT PORTION (Tons/Lin.Ft.)
Aggregate Base Course Type "A" (7")	67.88	0.37
Bituminous Material, Prime Coat	0.20	0.004
Bituminous Concrete Surface Course, Class I (2 1/2")	23.13	0.31
Aggregate Material, Prime Coat	0.43	0.006

DISTRICT NO. 2 DIXON
DRAWN TOM SNEEK DATE 8/3/70
CHECKED LARRY REED SCALE VAR.

FILE NAME *	USER NAME * FASSLERMJ	DESIGNED -	REVISED -
px:\IL884EBIDINTEG\Illinois.gov\PIDOT\Documents\PIDOT Offices\District 2\Projects\P202\DRAWING\GAD\sheet\0202310-shd-detail.dwg		CHECKED -	REVISED -
Default	PLOT SCALE = 40.0000' / 1" in.	DATE -	REVISED -
	PLOT DATE = Jul-31-2015 08:30:12 AM		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
IL 81 (LYNN CENTER)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
223	101VBR	HENRY	139	94
CONTRACT NO. 64F84			ILLINOIS FED. AID PROJECT	

B.M: Chiseled "a" on S.E. corner of Building Foundation 41' Lt. Sta. 43+88 El. 759.72
 Existing Structure: Truss, Timber Pile Bents.
 To be removed by Bridge Contractor at beginning of construction. No Salvage.
 No Temporary Bridge required.

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
81	101VB	HENRY	14	5	10 SHEETS
FED. AID DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

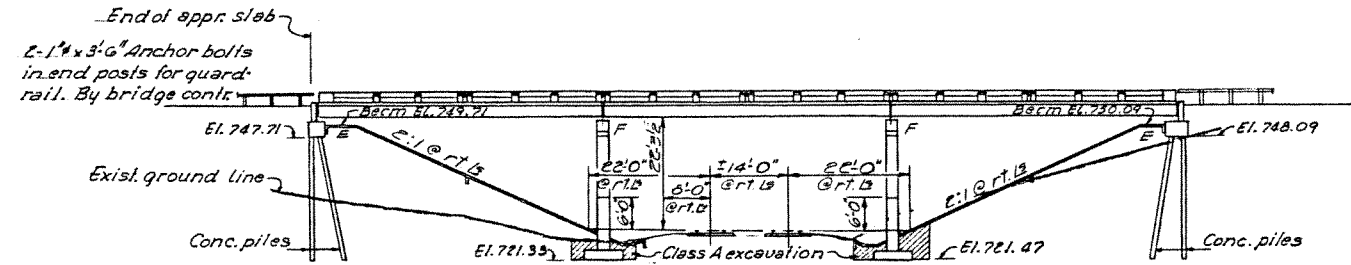
GENERAL NOTES

All reinforcement bars shall be lapped 2d diameters unless otherwise shown.
 Handrail concrete shall be used in the rail & rail posts. Rail shall be poured in separate operations from interior rail posts.

The contractor shall drive one concrete test pile at the West abutment in a permanent location as directed by the engineer.

Class A excavation for structures includes excavation for slope wall.
 An alternate strand pattern using extra high strength prestressing strand (270 K.S.T.) is permitted.

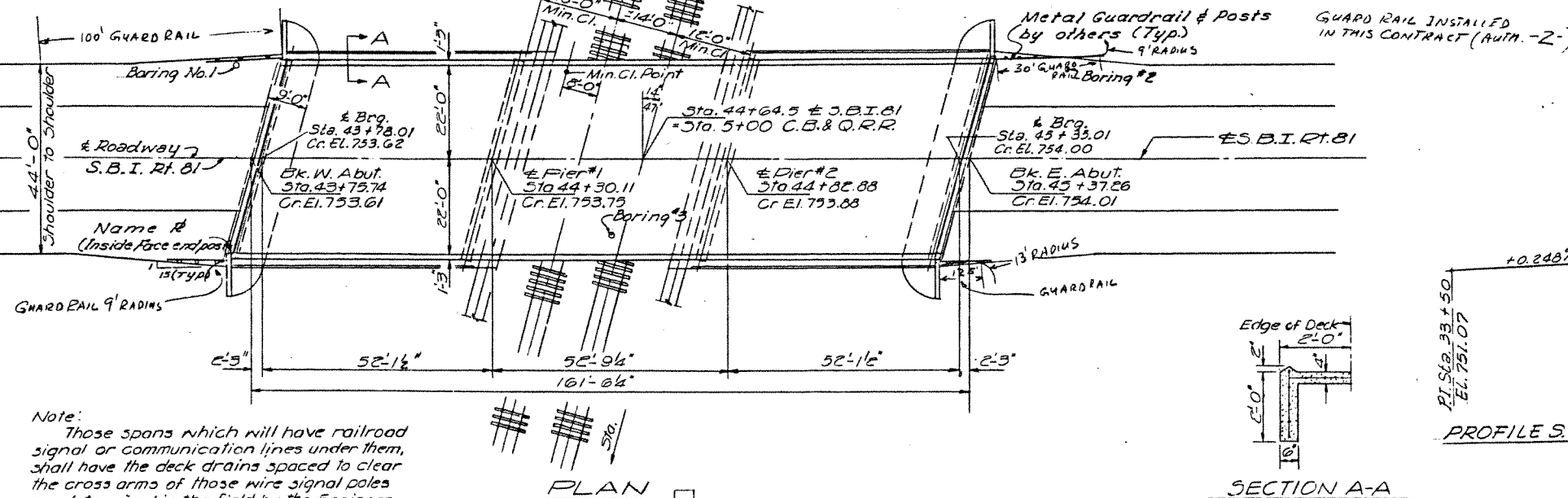
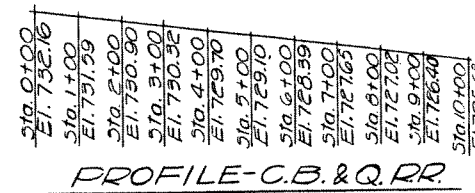
Protective coat shall not be applied to surfaces to which coal tar interlayer protective coat is applied.
 Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 lbs per 100 sq. ft.



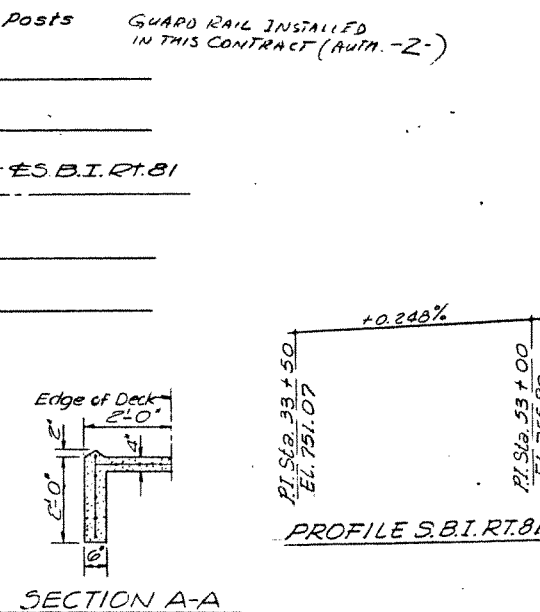
ELEVATION

STATION 44+64.5
 BUILT 19 BY
 STATE OF ILLINOIS
 S.B.I. RT. 81 SEC. 101VB
 LOADING HS20

NAME PLATE
 (See Std. 2113)



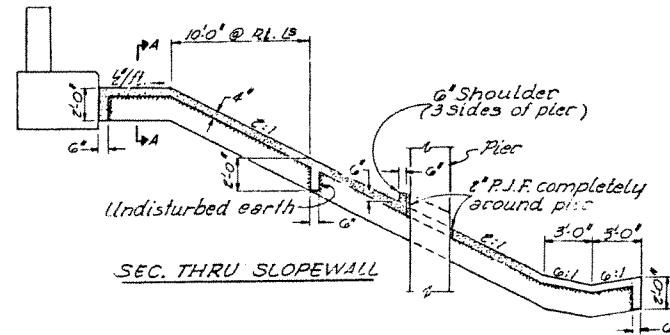
Note:
 Those spans which will have railroad signal or communication lines under them, shall have the deck drains spaced to clear the cross arms of those wire signal poles as determined in the field by the Engineer. No deck drains permitted in span over railroad tracks.



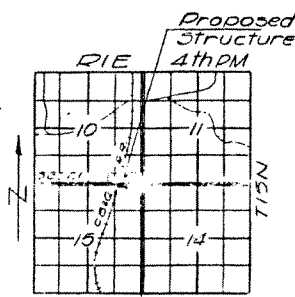
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB.	SUPER.	TOTAL
Class A Excavation	Cu. Yds.	240		240
Protective Coat	Sq. Yds.		151	151
Coal Tar Interlayer Protective Coat	Sq. Yds.		781	781
Bit Conc. Surf. Course Cl. I	Tons		88	88
Precast Prestressed Conc. Deck Beams (21')	Sq. Ft.		7268	7268
Class X Concrete	Cu. Yds.	237.0	20.0	257.0
Handrail Concrete	Cu. Yds.		9.0	9.0
Reinforcement Bars	Lbs.	23880	6130	30010
Slope Wall (4')	Sq. Yds.	867.7		867.7
Name Plates	Ea.		1	1
Preformed Jt. Sealer	Lin. Ft.		97	97
Concrete Piles	Lin. Ft.	765		765
Test Piles (Concrete)	Ea.	1		1
Removal of Exis. Struct.	Ea.		1	1

DESIGNED: G. L. K. Jensen
 CHECKED: JEN. T. AIFK
 DRAWN: JAS
 CHECKED: S.T.
 EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 FEBRUARY 8 1971



DESIGN STRESSES
 FIELD UNITS
 fc = 1400 psi. Gurb. Parapet. 1/2" h.
 fs = 20,000 psi. Reinf.
 vc = 75 psi. Figs.
 n = 10
 PRECAST PRESTRESSED UNITS
 fc = 3000 psi.
 fc1 = 4000 psi.
 fs = 248,000 psi. Strands
 fs1 = 173,000 psi. Strands

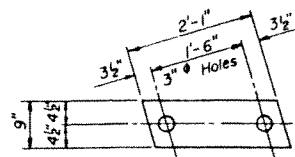


LOCATION SKETCH

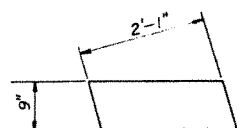
GENERAL PLAN & ELEVATION
 S.B.I. RT. 81 OVER C.B. & Q. RR.
 SECTION 101VB
 HENRY COUNTY
 STATION 44+64.5

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

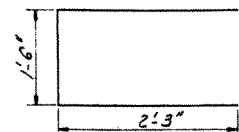
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
81	101VB	HENRY	14	6
SHEET NO. 2 10 SHEETS				



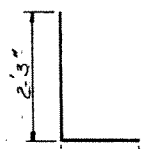
FABRIC BEARING PAD



GRAPHITED ASBESTOS BEARING PAD



U BAR



d BAR

Coal Tar Interlayer
Protective Coat
continuous over joint.

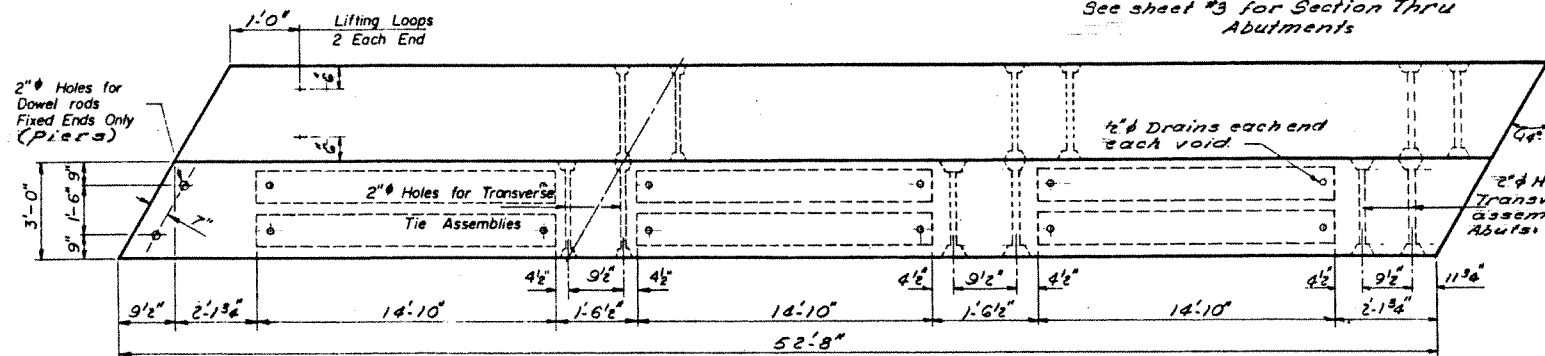
1/4" x 3/4" Sawed joint with
elastic joint filler. see
Special Provisions.



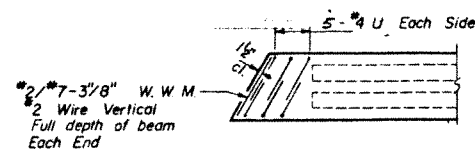
SEC. THRU PIERS

Dimensions @ r.l.'s

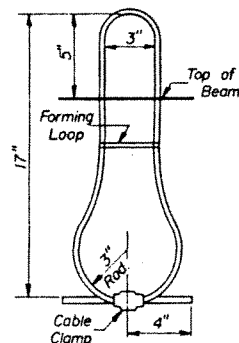
Note:
See sheet #3 for Section Thru
Abutments



PLAN

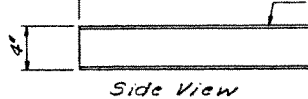


END PLAN

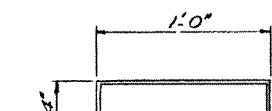


LIFTING LOOP DETAIL

3/8" Aluminum sheets welded
A.S.T.M. B209 alloy 6061-T6

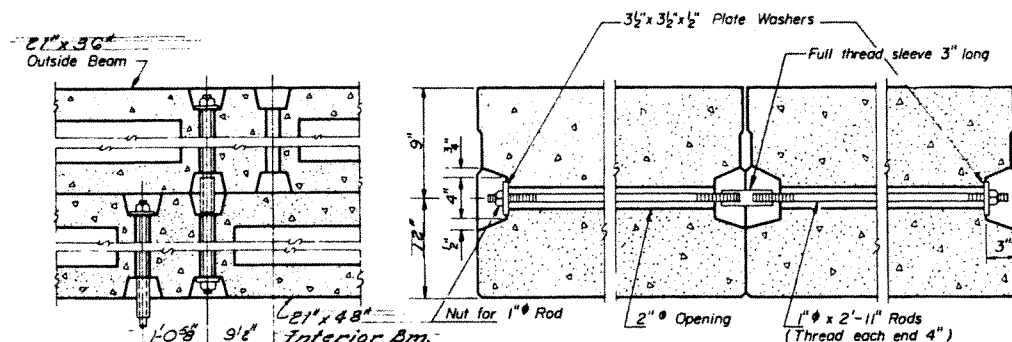


Side View

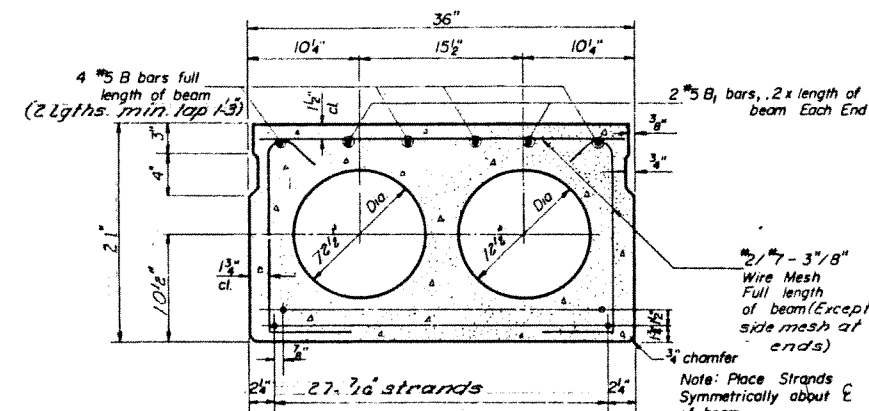


End View

DRAIN DETAIL

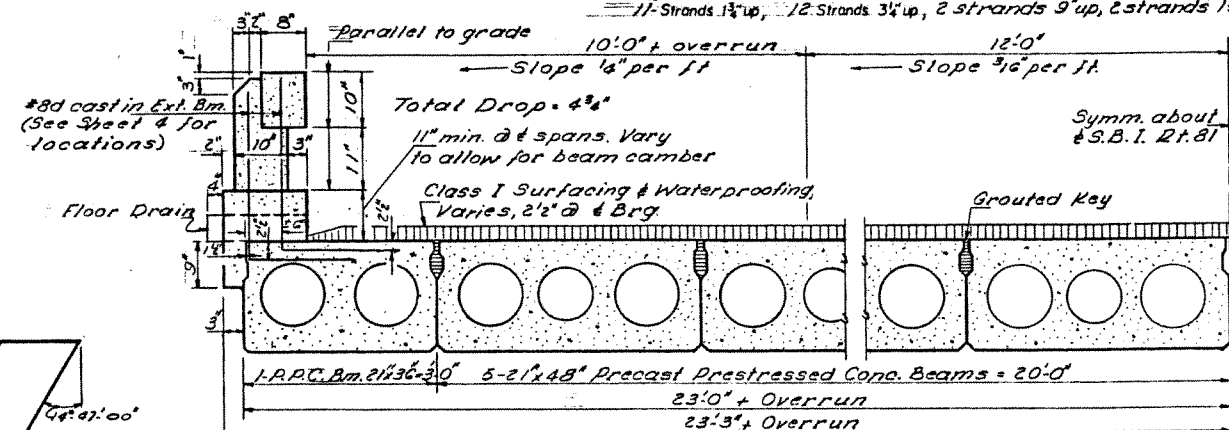


TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION

27-#10 Strands Each Strand Stressed to 18,900 lbs.
11-Strands 1 3/4" up, 12-Strands 3 1/4" up, 2 strands 9" up, 2 strands 15" up.



HALF CROSS SECTION

Note:
See sheet #3 for Detail of
21" x 36" P.C. beam & deck
surfacing.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
B	48	#5	27'-0"	—	
B ₁	24	#5	10'-6"	—	
d	244	#8	4'-0"	L	
U	120	#4	6'-0"	□	
Precast Prestressed Concrete Deck Beams (21")				Sq. Ft.	948

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.109 sq. in. Lifting loops shall be 3/8" diameter, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 29000 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams." Steel for dowel rods shall be A.S.T.M., A-306 or A.S.T.M., A-615 transverse tie rods shall be A.S.T.M., A-306 grade 70 or 80 steel for armor angles shall be A.S.T.M. A-36.

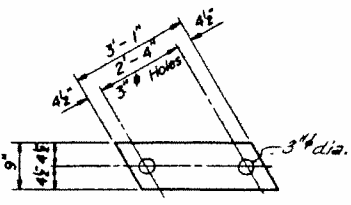
DESIGNED	Asok K. Juvvija	EXAMINED	[Signature]
CHECKED	[Signature]	PASSED	[Signature]
DRAWN	[Signature]	APPROVED	[Signature]
CHECKED	S.T.		

PD-1-L 11-19-65 Rev 5-20-68

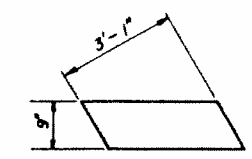
**SUPERSTRUCTURE &
21" x 36" P.P.C. BEAM DETAILS**
S.B.I. R.T. 81 SEC. 101VB
HENRY COUNTY
STATION 44+64.5

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

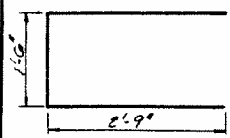
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
101VB	HENRY	14	7	10



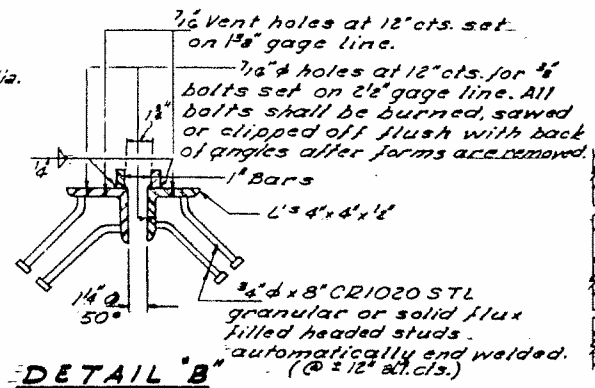
FABRIC BEARING PAD



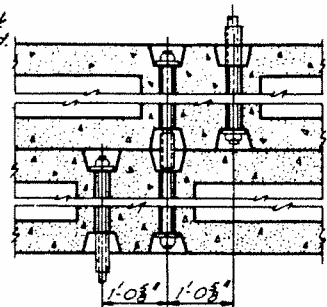
GRAPHITED ASBESTOS BEARING PAD



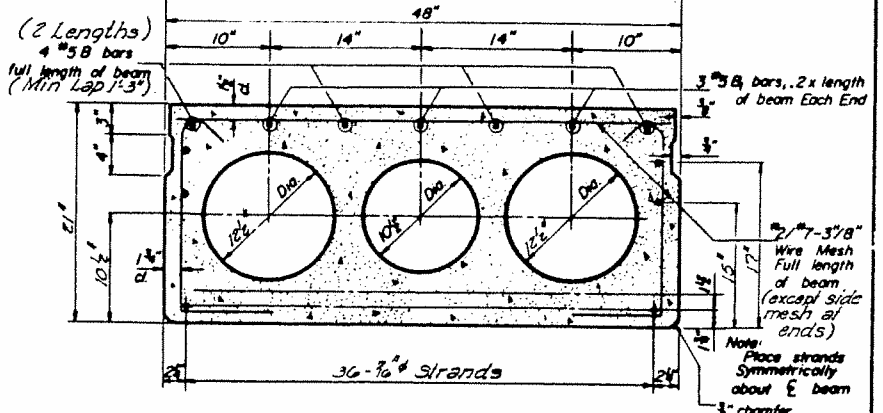
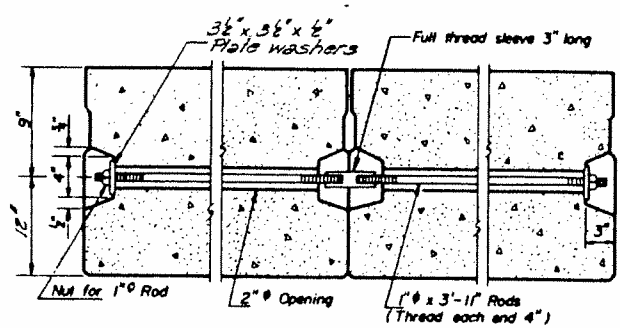
BAR U1



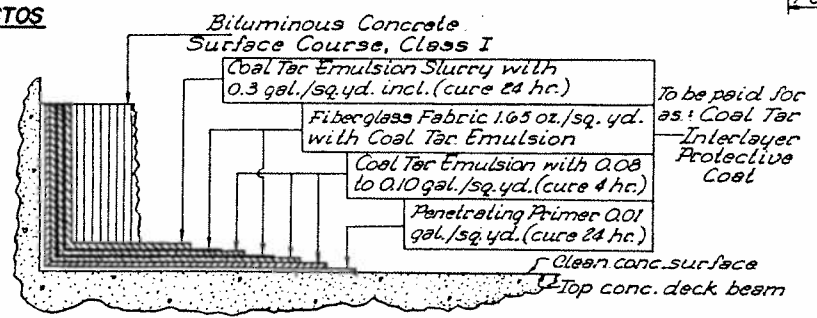
DETAIL B



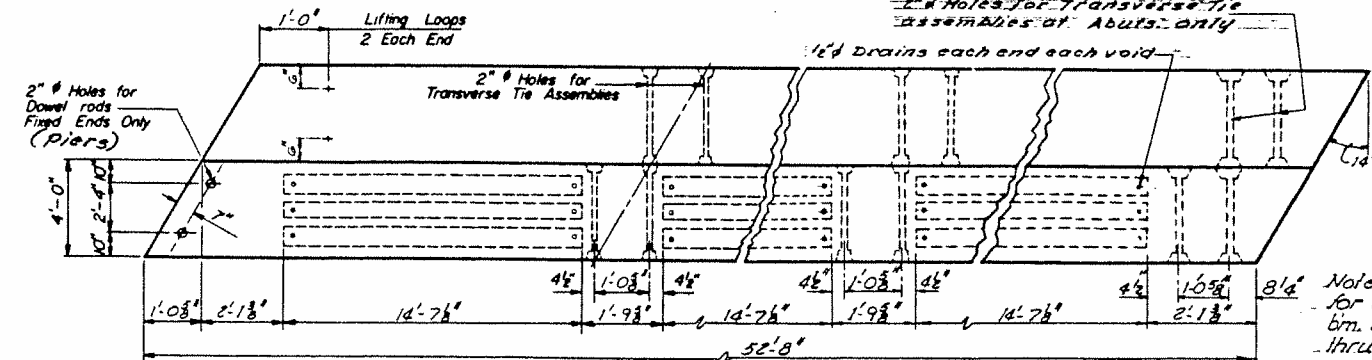
TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION
36-7/16" Strands, Each Strand Stressed to 18,900 lbs.
20 Strands 1 1/2" up - 12 Strands 3 1/2" up
2 Strands 15" up & 2 Strands 17" up

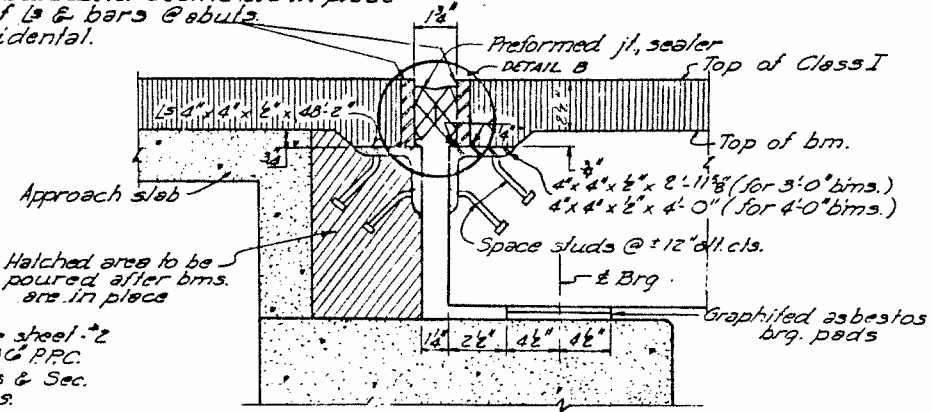


DECK SURFACING



PLAN

These 3/4" x 45" G bars are to be set & field welded with c.f.w. to 4" x 4" x 1/2" L's at abuts. after beams are in place. Cost of L's & bars @ abuts is incidental.



SEC. THRU ABUTS

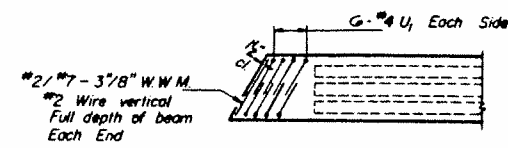
Dimensions are @ R.I. 15
Cost of angles & studs included in Unit Price Bid for Precast Prestressed Concrete Deck Beams

GENERAL NOTES

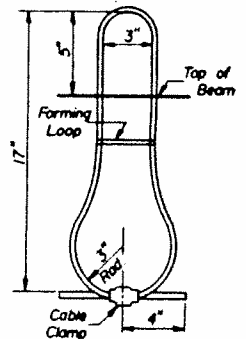
Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.109 sq. in. Lifting loops shall be 3/8" diameter, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Packets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Steel for armor angles shall be A.S.T.M., A-36. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation: A153. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams." Dowel rods shall be A.S.T.M., A-306, or A.S.T.M., A-615. Transverse tie rods shall be A.S.T.M., A-506, grade 70 or 80.

BILL OF MATERIAL

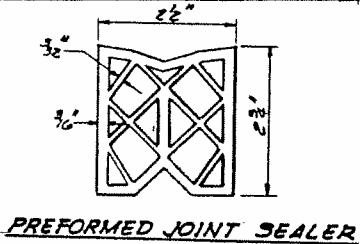
Bar	No.	Size	Length	Shape
B	240	#5	27'-0"	
B1	180	#5	10'-6"	
U1	720	#4	7'-0"	
Precast Prestressed Concrete Deck Beams (21")				Sq. Ft. G320



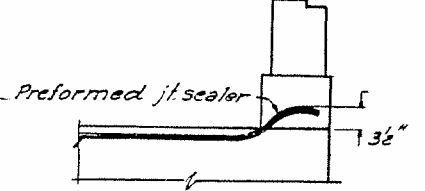
END PLAN



LIFTING LOOP DETAIL



PREFORMED JOINT SEALER



TYPICAL END SEALER TREATMENT

DESIGNED	Ashok K Jena	DATE	FEBRUARY 8 1971
CHECKED	SHREYAS JAIN	EXAMINED	[Signature]
DRAWN	JAMES R. CARMAN	PASSED	[Signature]
CHECKED	S.T.	APPROVED	[Signature]

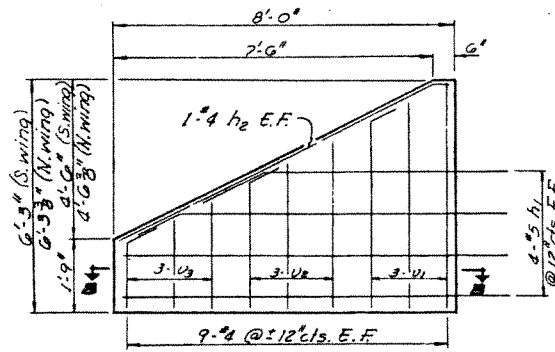
PD-2-L 11-19-65 Rev 5-20-68

SUPERSTRUCTURE AND
21" x 48" P.C.C. BEAM DETAILS
S.B.I. RT. 81 SEC. 101 VB
HENRY COUNTY
STATION 44 + 64.5

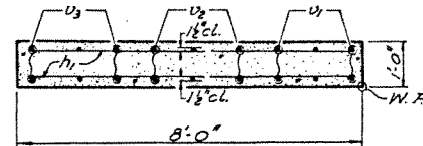
Note: Bars indicated thus: 3 x 2-#6 etc. designates 3 lines of bars with 2 lengths per line.

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

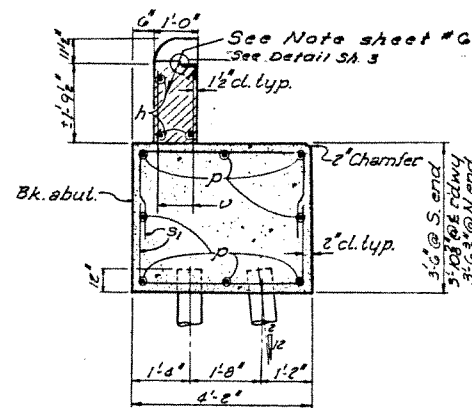
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
101VB	HENRY	14	9	10 SHEETS



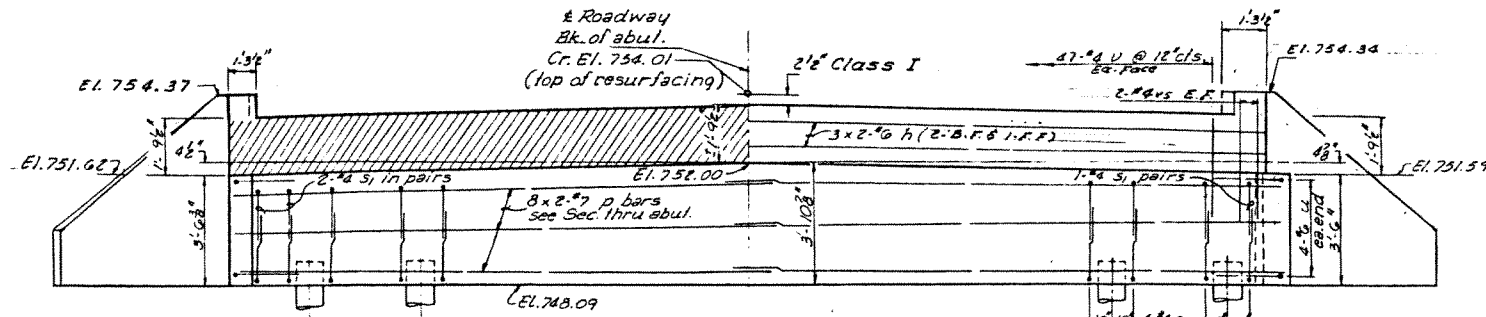
WING ELEVATION
(Bend bars in field to fit)



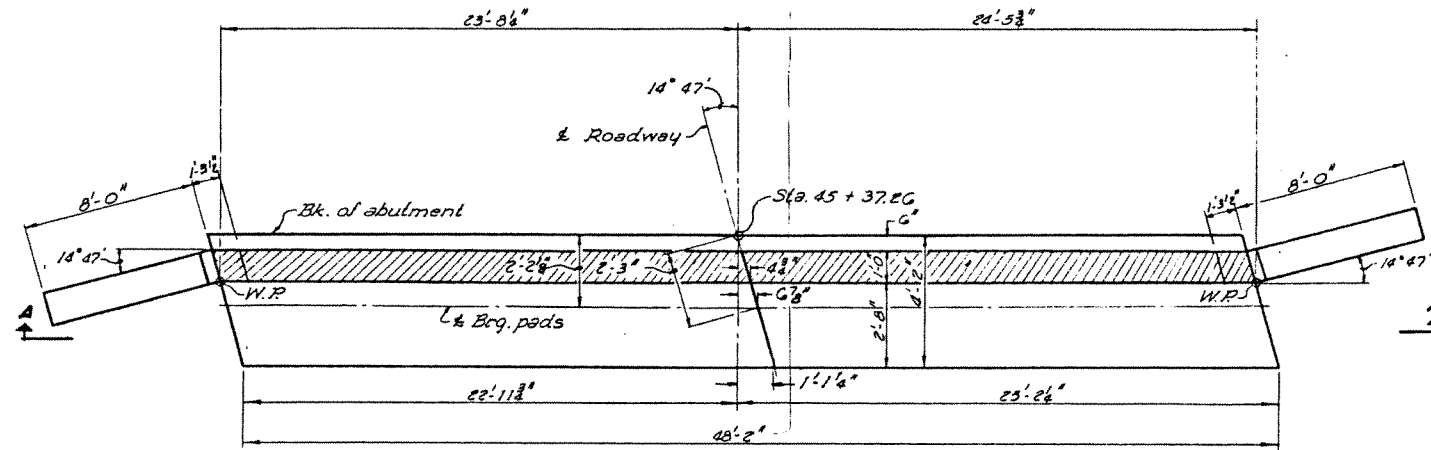
SEC. B-B



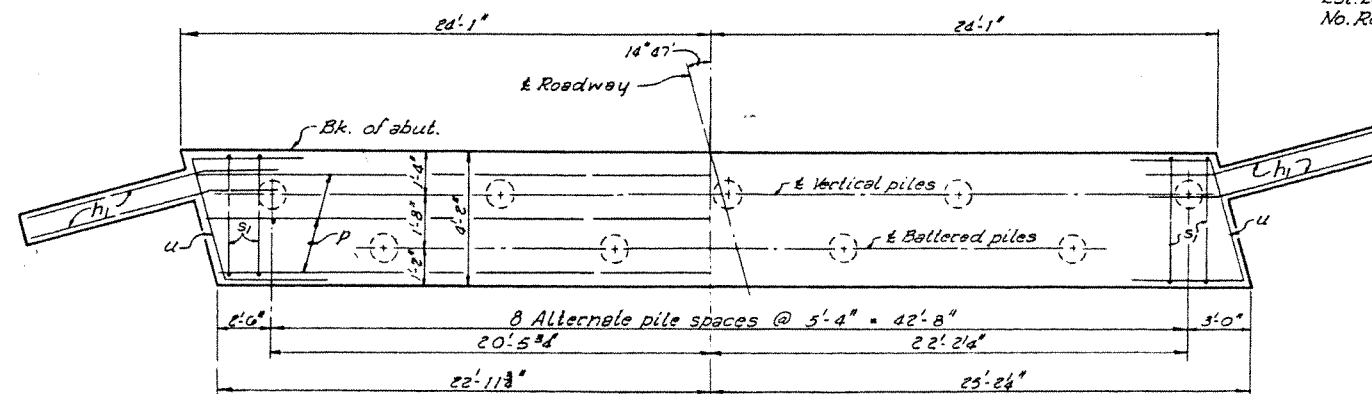
SEC. THRU ABUTS



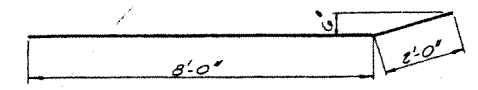
VIEW A-A
(Looking East)



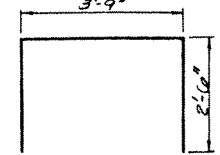
TOP VIEW



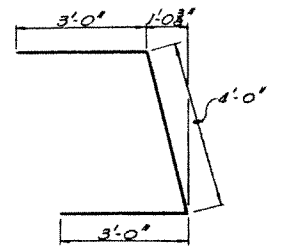
PLAN - PILE CAP



BAR h1



BAR S1



BAR U

PILE DATA

Type	Concrete
Capacity	40 Tons
Est. Length	45'
No. Req'd.	9

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	6	#6	23'-0"	—
h1	16	#5	10'-0"	—
h2	4	#4	8'-0"	—
p	16	#7	23'-0"	—
s1	70	#4	8'-9"	□
u	8	#6	10'-0"	□
u	9d	#4	3'-9"	—
u1	12	#4	3'-3"	—
u2	12	#4	3'-9"	—
u3	12	#4	2'-6"	—
u4	8	#4	4'-9"	—
Reinforcement bars			Lbs.	2120
Class X concrete			Cu. yds.	29.8
Concrete piles			Lin. ft.	405

EAST ABUTMENT
S.B.I. RT. 81 SEC. 101-VB
HENRY COUNTY
STATION 44+64.5

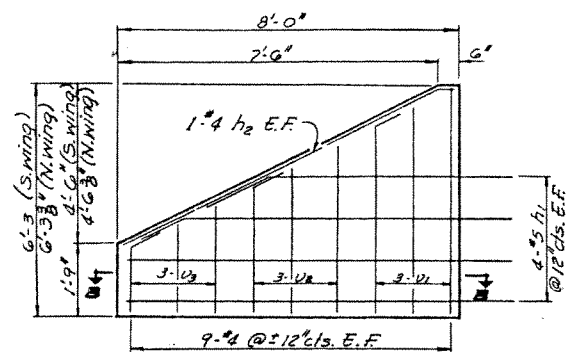
DESIGNED	Asok K. Jeneja	EXAMINED	FEZ 8 1971
CHECKED	SHEN, T. J. JR.	PASSED	
DRAWN	J. Mullenix	APPROVED	
CHECKED	S.T.		

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS - FOR INFORMATION ONLY IL 81 (LYNN CENTER)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11884EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 2\Projects\2282\DRAWING\GAD\Sheets\0282318-sht-detail	FASLERMJ	-	-			223	101VBR	HENRY	139	99
PLOT SCALE = 48,0000 / in.		CHECKED	REVISED							CONTRACT NO. 64F84
PLOT DATE = Jul-31-2015 08:30:52 AM		DATE	REVISED			SCALE:	SHEET	OF	SHEETS	STA. TO STA.
										ILLINOIS FED. AID PROJECT

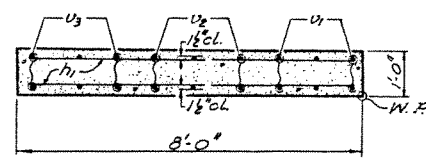
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
81	101VB	HENRY	14	10	10 SHEETS
FEB. 1968 DIST. NO. 7 ILLINOIS FED. AID PROJECT					

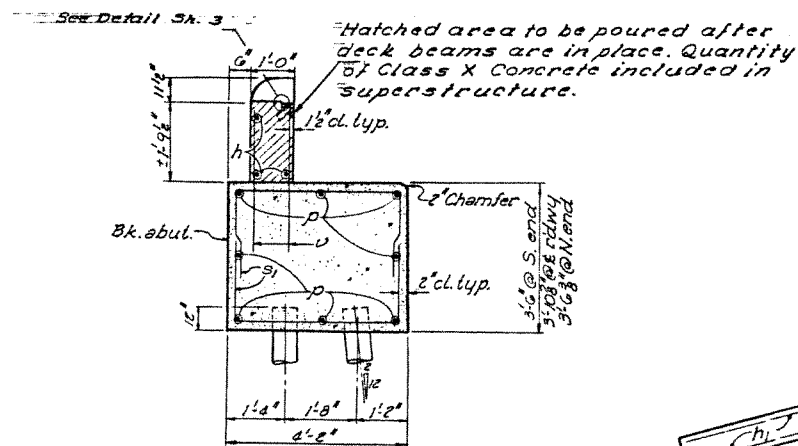
Note: Bars indicated thus: 3x2-#6 etc. designates 3 lines of bars with 2 lengths per line.



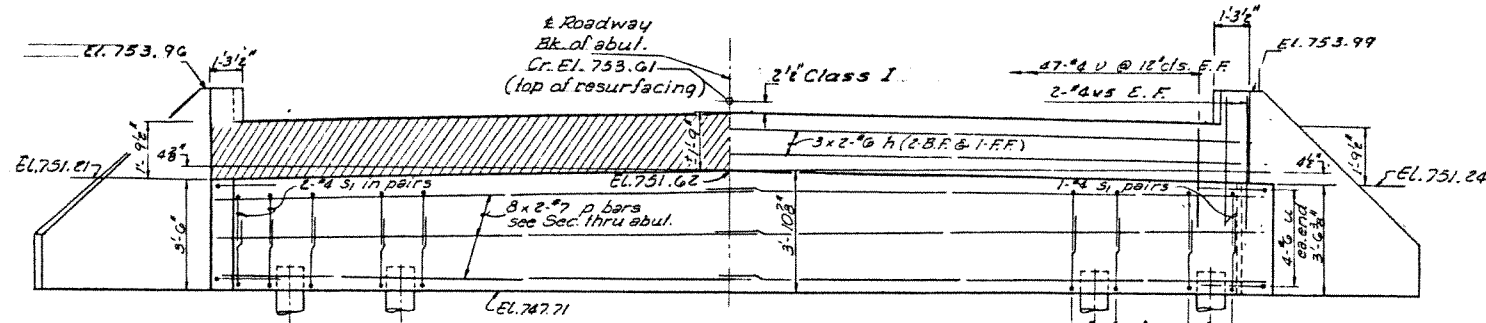
WING ELEVATION
(Bend bars in field to fit)



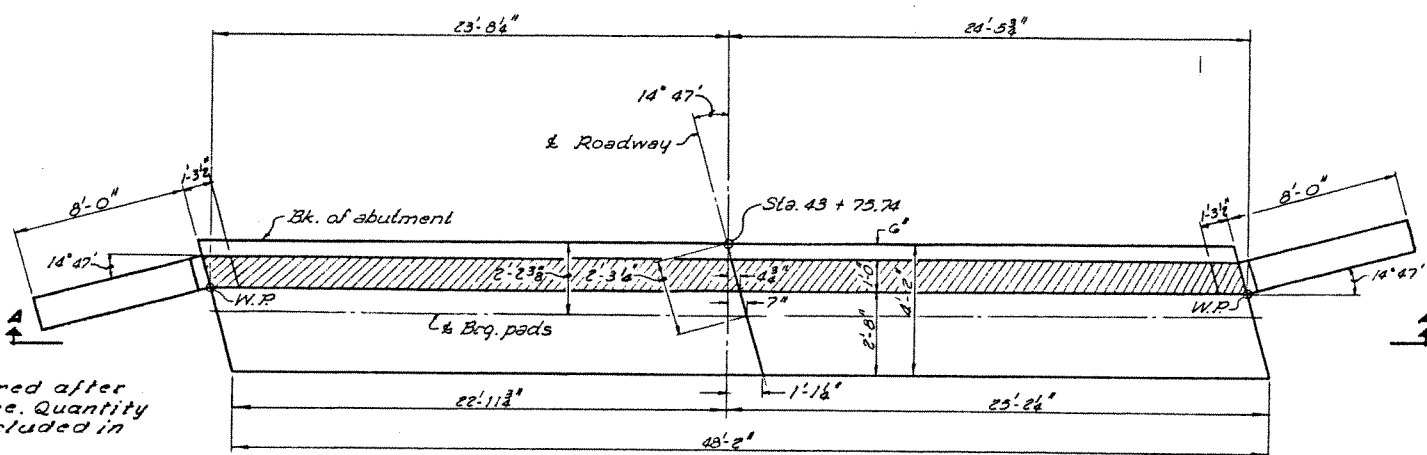
SEC. B-B



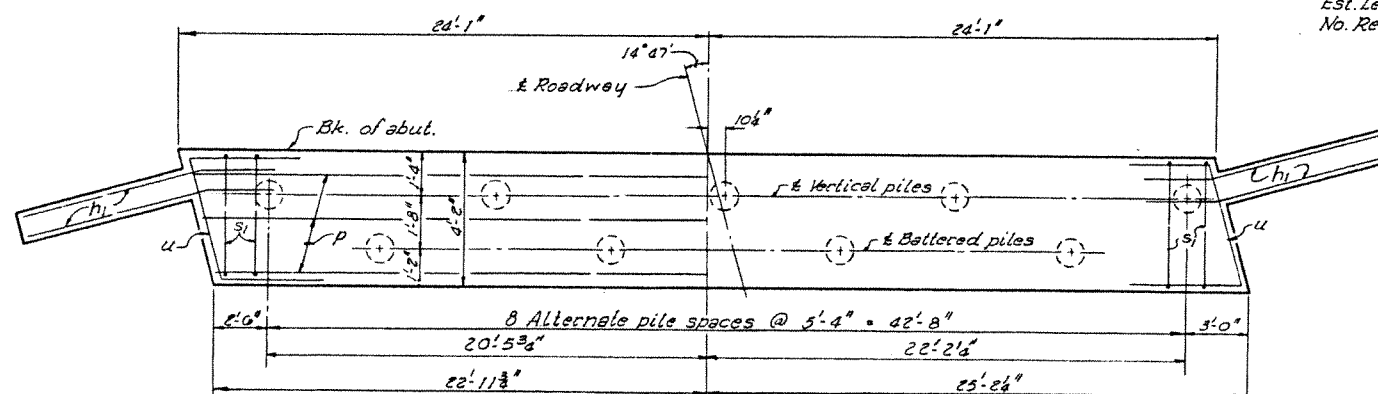
SEC. THRU ABUTS



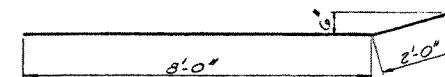
VIEW A-A
(Looking West)



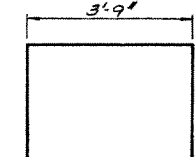
TOP VIEW



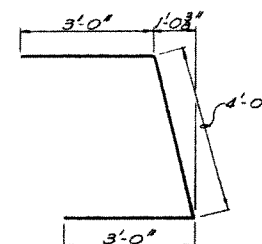
PLAN - PILE CAP



BAR h1



BAR S1



BAR U

PILE DATA
Type.....Concrete
Capacity.....40 Tons
Est. Length.....45'
No. Req'd.... 8 Plus 1 conc. test pile in a permanent location

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h	6	#6	23'-0"	—
h1	16	#5	10'-0"	—
h2	4	#4	8'-6"	—
P	16	#7	23'-0"	—
S1	70	#4	8'-9"	□
U	8	#6	10'-0"	□
U1	94	#4	3'-9"	—
U2	12	#4	3'-3"	—
U3	12	#4	3'-9"	—
U4	12	#4	2'-6"	—
U5	8	#6	4'-9"	—
Reinforcement bars		Lbs.	212.0	
Class X concrete		Cuys	29.8	
Concrete piles		Lin. ft.	36.0	
Test piles (concrete)		Each	1	

WEST ABUTMENT
S.B.I. RT. 81 SEC. 101-VB
HENRY COUNTY
STATION 44+64.5

DESIGNED	Wahok K. Jeneveja	EXAMINED	FEB. 9 1971
CHECKED	SHEN, Tj	PASSED	
DRAWN	J. Mullerix	APPROVED	
CHECKED	S.T.		