

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	1
		ILLINOIS	CONTRACT NO. 64H07	

06-15-2018 LETTING ITEM 027

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 303 (IL 173)
SECTION 129T
PROJECT NHPP-UR 76 (656)
CULVERT REPLACEMENT
BOONE COUNTY

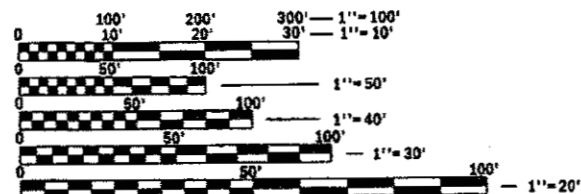
C-92-016-13
R.3E.

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

CULVERT REPLACEMENT
EX SN: 004-1020
PR SN: 004-1031
PROP 5' DIA CONC PIPE

PROJECT BEGINS STA 91+42.5
IMPROVEMENT BEGINS STA 90+75

CALEDONIA TOWNSHIP SECTION 17 & 20

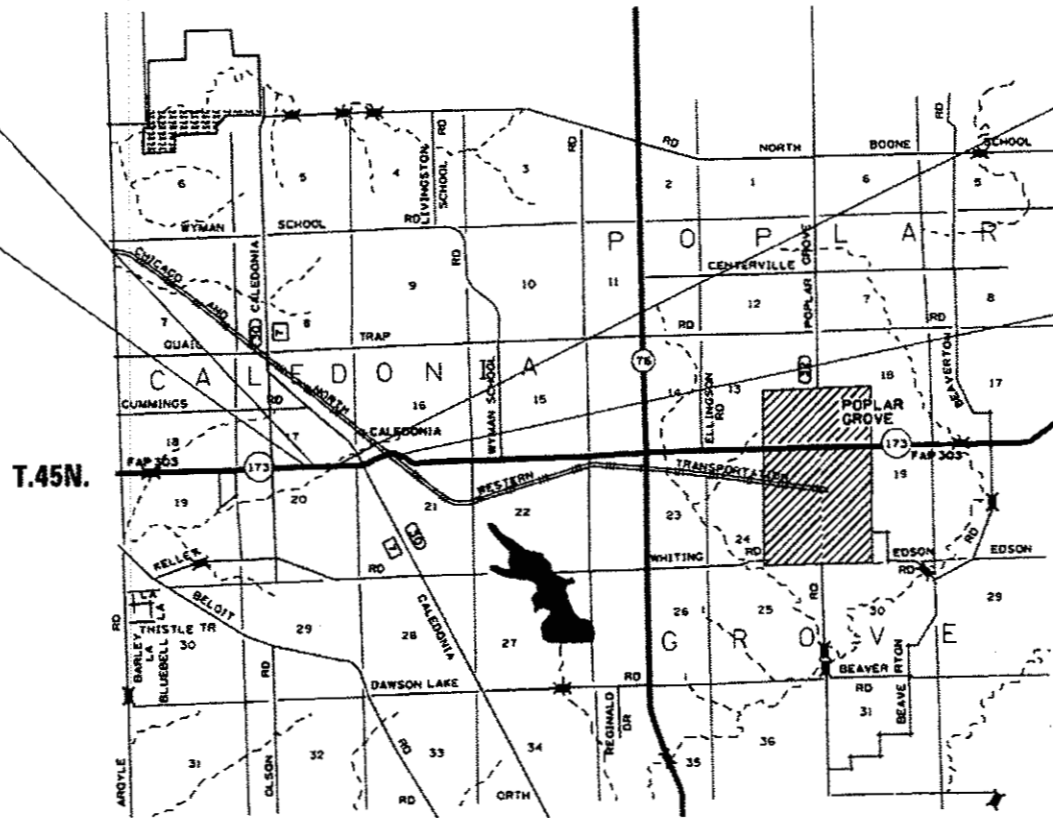


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER MATHEW DOBIE
PROJECT MANAGER MATTHEW MILLER (815) 284-5509

CONTRACT NO. 64H07



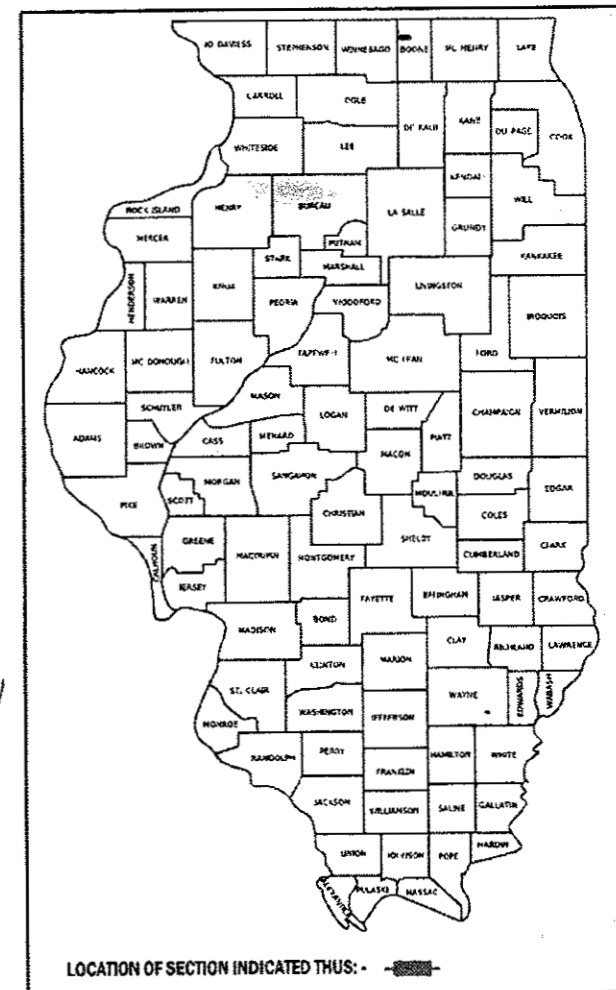
GROSS LENGTH = 1425 FT. = 0.27 MILE
NET LENGTH = 1425 FT. = 0.27 MILE

FRANK J. WILLIAMS
031-035037
LICENSED STRUCTURAL ENGINEER OF ILLINOIS
3/16/2018
LIC EXP. - 11/30/2018
COVERS SHEETS 27+38-41

CULVERT REPLACEMENT
EX SN: 004-1021
PR SN: 004-1032
PROP DOUBLE 8X5 BOX

PROJECT ENDS STA 104+32.5
IMPROVEMENT ENDS STA 105+00

NICHOLAS A. VARCHETTO
062-068622
3/16/2018 EXP: 4/30/19
SHEETS: 28-37



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19, 2018
Regional Engineer
May 11, 2018
Engineer of Design and Environment
May 10, 2018
Director of Highways Project Implementation

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	Cover Sheet
2	Index of Sheets
2	State Standards
3 - 4	General Notes
5 - 11	Summary of Quantities
12 - 15	Typical Sections
16 - 18	Horizontal and Vertical Control
19 - 22	Schedule of Quantities
22	Earthwork Schedule
23	Hot-Mix Asphalt Schedule
24 - 27	Plan & Profile Sheets
28 - 37	Staging Plans
38 - 39	Temporary Soil Retention System Detail
40 - 41	Boring Log Sheets
42 - 43	Erosion Control & R.O.W. Details
44	Riprap at End Sections (Dist Std 19.4)
44	Hot-Mix Asphalt Shoulder (Dist Std 22.4)
44	Cast-in-place Reinforced Concrete End Sections (Dist Std 28.4)
44	Delineator and Post Orientation (Dist Std 37.4)
45	Typical Benching on Existing Embankment (Dist Std 50.4)
45	Drain for Aggregate Base Course (Dist Std 96.4)
45	Field Tile Junction Vaults 2' and 3' Dia. (Dist Std 30.2)
46	Permenant Survey Markers, Type II (Dist Std 66.2)
47 - 48	Box Culvert End Sections (Dist Std 10.1)
49 - 50	Traversable Pipe Grate for Box Culvert End Sections (Dist Std 13.1)
51 - 54	Work Zone Sign Details (Dist Std 34.1)
55 - 57	Typical Pavement Markings (Dist Std 41.1)
58	Details of Planting and Bracing Trees (Dist Std 92.1)
59 - 66	Cross Sections

STATE STANDARDS

000001 - 06	Standard Symbols, Abbreviations, and Patterns
280001 - 07	Temporary Erosion Control Systems
442201 - 03	Class C and D Patches
515001 - 03	Name Plate For Bridges
542001 - 06	Concrete End Sections for Pipe Culverts 15" (375 mm) thru 84" (2100mm) DIA
542311 - 07	Traversable Pipe Grate for Concrete End Section
542411	Sloped Metal End Sections for Pipe Culverts 15" (375mm) thru 60" (1500mm) DIA
635001 - 02	Delineators
666001 - 01	Right-of-Way Markers
701006 - 05	Off-Road Operations, 2L, 2W, 15' (4.5m) to 24" (600mm) from Pavement Edge
701011 - 04	Off-Road Moving Operations, 2L, 2W, Day Only
701201 - 04	Lane Closure, 2L, 2W, Day Only, For Speeds ≥45 MPH
701301 - 04	Lane Closure, 2L, 2W, Short Time Operations
701306 - 04	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, for Speeds ≥ 45 MPH
701311 - 03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701321 - 17	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701326 - 04	Lane Closure, 2L, 2W, Pavement Widening, for Speeds ≥ 45 MPH
701901 - 07	Traffic Control Devices
704001 - 08	Temporary Concrete Barrier
720011 - 01	Metal Posts for Signs, Markers & Delineators
728001 - 01	Telescoping Steel Sign Support
729001 - 01	Applications of Types A & B Metal Posts (For Signs & Markers)
780001 - 05	Typical Pavement Markings
781001 - 04	Typical Applications Raised Reflective Pavement Markers

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS / STATE STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	2
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

It is estimated that 362.5 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

The topsoil excavation quantities have been adjusted to allow for 25% shrinkage of topsoil between removal and replacement.

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

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

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.

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

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses 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.

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

Box culverts that are stage constructed and undercut by more than 2 feet shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

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

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

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

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

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

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

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

The temporary concrete barrier shall be pinned to the pavement with 3 anchor pins per section on the traffic side of the barrier wall at the following locations:

92+48.5 – 93+61 98+39.25 – 99+76.75

The barrier unit at each end shall be anchored as specified in Article 704.04. All anchoring and pinning holes shall be core drilled.

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

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 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:

Commonwealth Edison, 815-490-2869
Frontier, 815-895-1515

NICOR Gas, 630-983-8676
Mediacom, 630-365-0045

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.

FILE NAME = 64H07.GND00X	USER NAME #	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES					ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			FAP 303 (IL 173)	129T	Boone	66	3				
	PLOT SCALE #	CHECKED -	REVISED -			CONTRACT NO. 64H07								
	PLOT DATE = 3/16/2018 8:28 AM	DATE - 8/17/2017 2:19 PM	REVISED -			SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

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.

Relocate Temporary Impact Attenuators shall include storage and transportation to and from storage, when the device is not needed for a time, as shown on the staging plans. This shall be included in the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

When Relocate Temporary Concrete Barrier is specified, the wall shall be removed, storage and transportation to and from storage, when the wall is not needed for a time as shown on the staging plans, relocated and reinstated at the new location. The reinstatement requirements shall be the same as those for a new installation. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

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

The following Mixture Requirements are applicable for this project:

Location(s) and Mixture Use(s):	Resurfacing			Shoulders	
	Surface	Level Binder	Binder	Top Lift	All Lower Lifts
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0 @ N50	4.0 @ N50	4.0 @ N50	3.0 @ N50	3.0 @ N50
Composition (Gradation Mixture):	IL 9.5	IL 9.5FG	IL 19.0	IL 9.5 or 9.5FG	IL 19.0
Friction Aggregate:	D	N/A	N/A	C	N/A
20 Year ESAL	1.1	1.1	1.1	N/A	N/A
Mix Unit Weight:	112 lbs/sy/in			112 lbs/sy/in	
Management Program to be:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
Sublot Tonnage:	N/A	N/A	N/A	N/A	N/A

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

* On projects with less than 2000 tons Level Binder, growth curve can be used for density.

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 tacked or 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.

The new number for this structure will be 004-1031 AND 004-1032.

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

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

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

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.

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.

Excess trees that cannot be planted along the IL 173 project limits shall be planted at alternative locations in Boone or Winnebago counties as determined by the District Roadside Management Specialist.

COMMITMENTS:

1. This project will impact 0.085 acre of regulatory wetlands. These impacts will be mitigated by purchasing 0.13 acre of wetland bank credits from the Kilbuck Creek Wetland Bank.
2. All wetland boundaries in the project limits shall be shown on the contract plans.
3. The construction limits in front of the wetland site shall be marked in the field with snow fence to avoid further impacts.
4. No construction activities, including equipment and material storage or driving vehicles and equipment shall take place beyond the construction limits shown on the contract plans to avoid any additional impacts to these wetlands.
5. In the wetland area, between Left Station 98+50 to Sta. 102+75, the ditch will not be cut, but will be maintained at the elevation of the existing ditch. This will avoid wetland impacts.
6. The channel from the new culvert will be tied into the existing channel at the existing elevation.
7. In order to protect the Indiana Bat and the Northern Long-eared Bat, tree clearing will only be allowed to occur between October 1 and March 31 of any given year.

FILE NAME = 64H07.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	DATE = 8/17/2017 2:19 PM	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004	0004
				RURAL	RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	123	123	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	266	266	
20101000	TEMPORARY FENCE	FOOT	485	485	
20200100	EARTH EXCAVATION	CU YD	1410	1410	
20400800	FURNISHED EXCAVATION	CU YD	365	365	
25000210	SEEDING, CLASS 2A	ACRE	1	1	
25000310	SEEDING, CLASS 4	ACRE	0.5	0.5	
25000750	MOWING	ACRE	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	7260	7260	
25100900	TURF REINFORCEMENT MAT	SQ YD	51	51	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	600	600	
28000305	TEMPORARY DITCH CHECKS	FOOT	224	224	
28000400	PERIMETER EROSION BARRIER	FOOT	1726	1726	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	

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14

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	5
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

Revised

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL ROADWAY	80% FEDERAL BOX CULVERT
				20% STATE	20% STATE
				0004 RURAL	0004 RURAL
28100107	STONE RIPRAP, CLASS A4	SQ YD	142	30	112
28200200	FILTER FABRIC	SQ YD	142	30	112
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2110	2110	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	13336	13336	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1337	1337	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	231	231	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	260	260	
40600990	TEMPORARY RAMP	SQ YD	29	29	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	254	254	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	346	346	
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	294	104	190
48203020	HOT-MIX ASPHALT SHOULDERS, 5 3/4"	SQ YD	1808	1808	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1

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14

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004 RURAL	0004 RURAL
* 50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	208	62	146
51500100	NAME PLATES	EACH	2	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	781	281	500
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	4		4
54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	FOOT	102		102
542A0265	PIPE CULVERTS, CLASS A, TYPE 1 60"	FOOT	60	60	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	62	62	
54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	1	1	
54215410	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"	EACH	1	1	
54215412	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1	
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	521	141	380
54260515	SLOPED METAL END SECTION, STANDARD 542411, 15", 1:6	EACH	2	2	
54261460	CONCRETE END SECTION, STANDARD 542001, 60", 1:4	EACH	2	2	
60100080	FRENCH DRAINS	CU YD	1	1	

* SPECIALTY ITEM

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PLOT SCALE = 100.0000' / in	CHECKED -	REVISED -			303	129T	BOONE	66	7	
PLOT DATE = Mar-19-2018 08:33:38 AM	DATE -	REVISED -			CONTRACT NO.: 64H07		ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET OF SHEETS	STA. TO STA.			

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				0004	0004
				RURAL	RURAL
60100915	PIPE DRAINS 6"	FOOT	20	20	
60100925	PIPE DRAINS 8"	FOOT	20	20	
60100935	PIPE DRAINS 10"	FOOT	20	20	
60100945	PIPE DRAINS 12"	FOOT	20	20	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	300	300	
61101007	STORM SEWERS PROTECTED, CLASS A, 6"	FOOT	50	50	
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	50	50	
61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	50	50	
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	50	50	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	682	682	
63500105	DELINEATORS	EACH	4	4	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	23	23	
* 66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	8
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004	0004
				RURAL	RURAL
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	30	30	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2488	2488	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	830	830	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2049	2049	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375	

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	9
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL ROADWAY	80% FEDERAL BOX CULVERT
				20% STATE 0004	20% STATE 0010
				RURAL	RURAL
* 70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50	50	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5400	5400	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	17	17	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	17	17	
* A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6	
* A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6	
* A2005814	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6	
* A2006814	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	278	278	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	128		128
* X2300009	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN (SPECIAL)	FOOT	169	169	
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	280	280	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	60	60	

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	10
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004	0004
				RURAL	RURAL
Z0004405	HOT-MIX ASPHALT SCARIFICATION	SQ YD	3727	3727	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0054500	ROCK FILL	TON	433	114	319
Z0062456	TEMPORARY PAVEMENT	SQ YD	280	280	

4 * SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

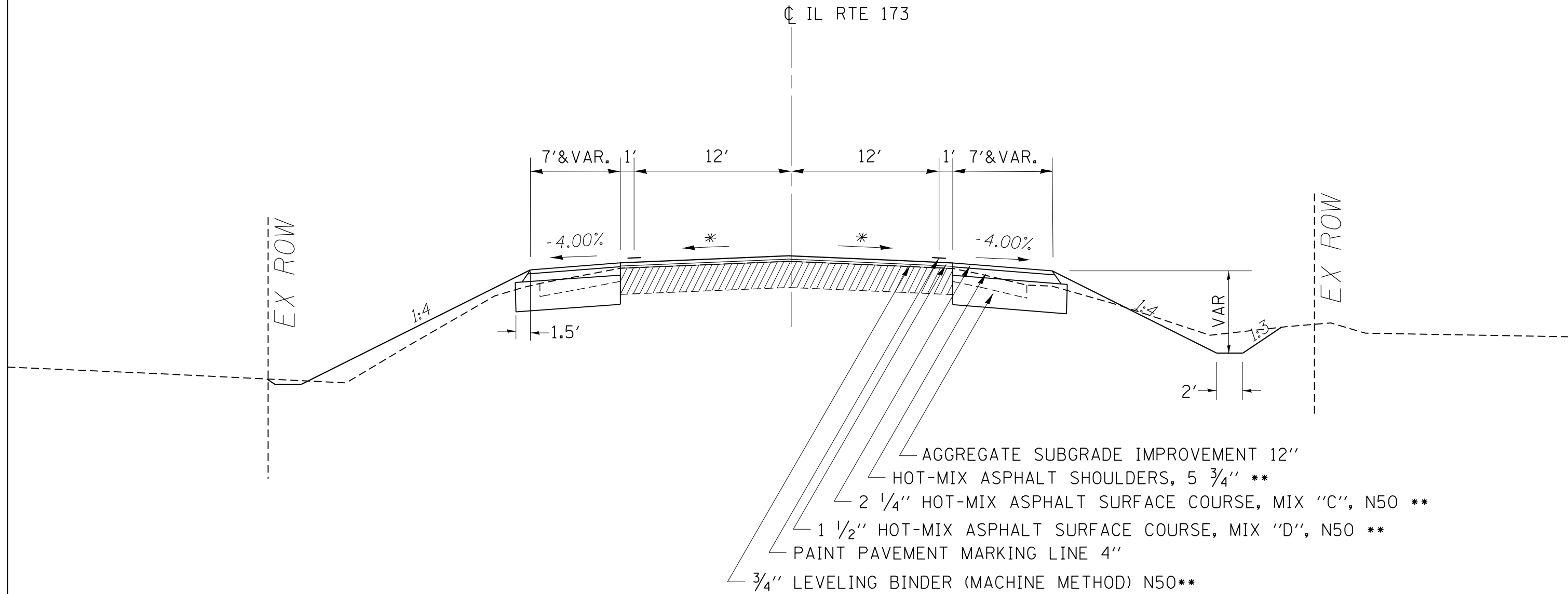
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	11
			CONTRACT NO. 64H07	
ILLINOIS FED. AID PROJECT				

TYPICAL SECTIONS

STA. 90 + 75 - 105 + 00



- AGGREGATE SUBGRADE IMPROVEMENT 12"
- HOT-MIX ASPHALT SHOULDERS, 5 3/4" **
- 2 1/4" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 **
- 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 **
- PAINT PAVEMENT MARKING LINE 4"
- 3/4" LEVELING BINDER (MACHINE METHOD) N50**

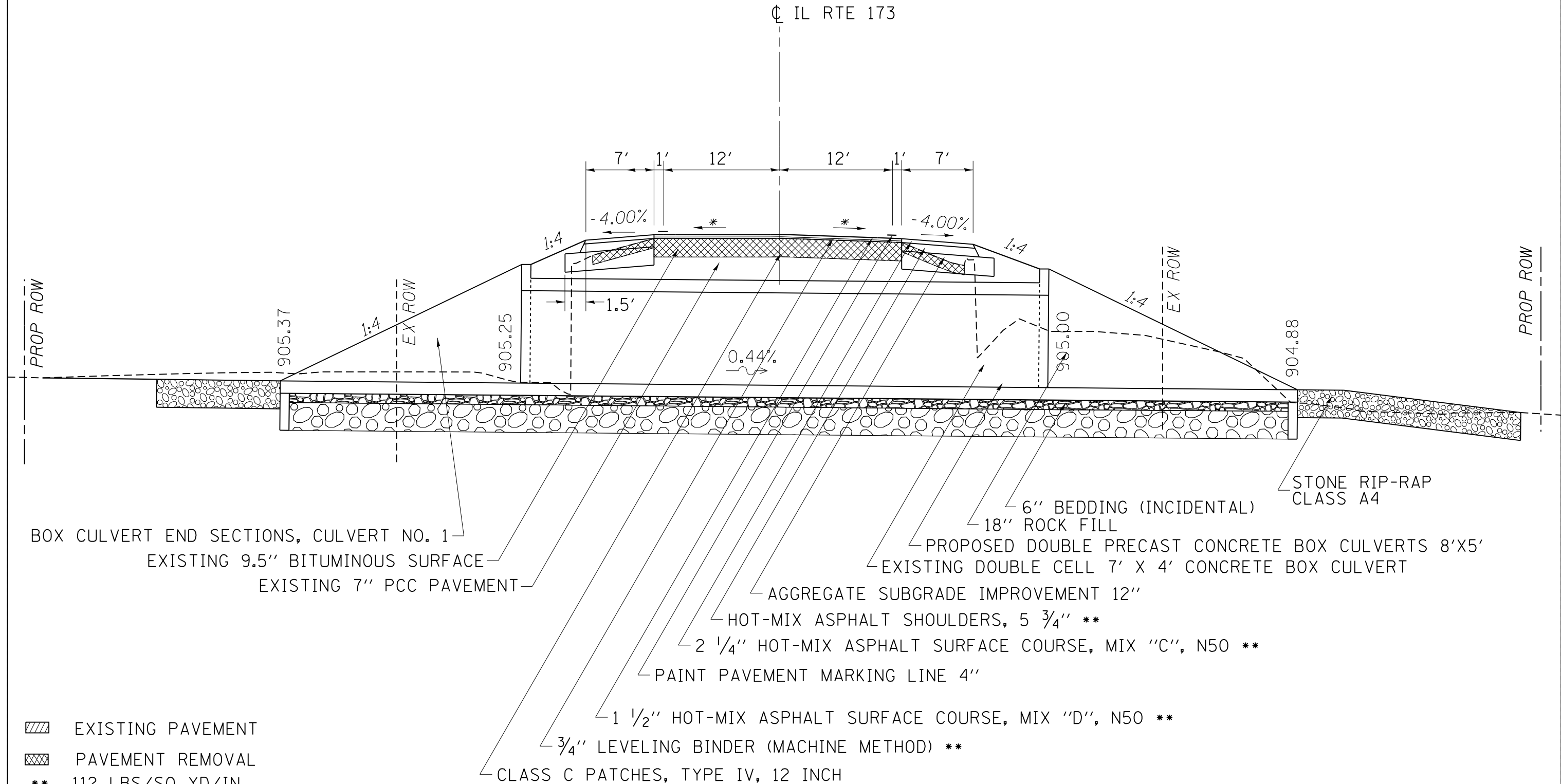
- EXISTING PAVEMENT
- PAVEMENT REMOVAL
- ** 112 LBS/SQ YD/IN
- * MATCH EXISTING CROSS SLOPES WITH A MINIMUM OF 1/8" PER FOOT

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										ILLINOIS FED. AID PROJECT

TYPICAL SECTIONS

STA. 99 + 04

CL IL RTE 173



BOX CULVERT END SECTIONS, CULVERT NO. 1
 EXISTING 9.5" BITUMINOUS SURFACE
 EXISTING 7" PCC PAVEMENT

- 6" BEDDING (INCIDENTAL)
- 18" ROCK FILL
- PROPOSED DOUBLE PRECAST CONCRETE BOX CULVERTS 8'X5'
- EXISTING DOUBLE CELL 7' X 4' CONCRETE BOX CULVERT
- AGGREGATE SUBGRADE IMPROVEMENT 12"
- HOT-MIX ASPHALT SHOULDERS, 5 3/4" **
- 2 1/4" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 **
- PAINT PAVEMENT MARKING LINE 4"
- 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 **
- 3/4" LEVELING BINDER (MACHINE METHOD) **
- CLASS C PATCHES, TYPE IV, 12 INCH

- EXISTING PAVEMENT
- PAVEMENT REMOVAL
- ** 112 LBS/SQ YD/IN
- * MATCH EXISTING CROSS SLOPES WITH A MINIMUM OF 1/8" PER FOOT

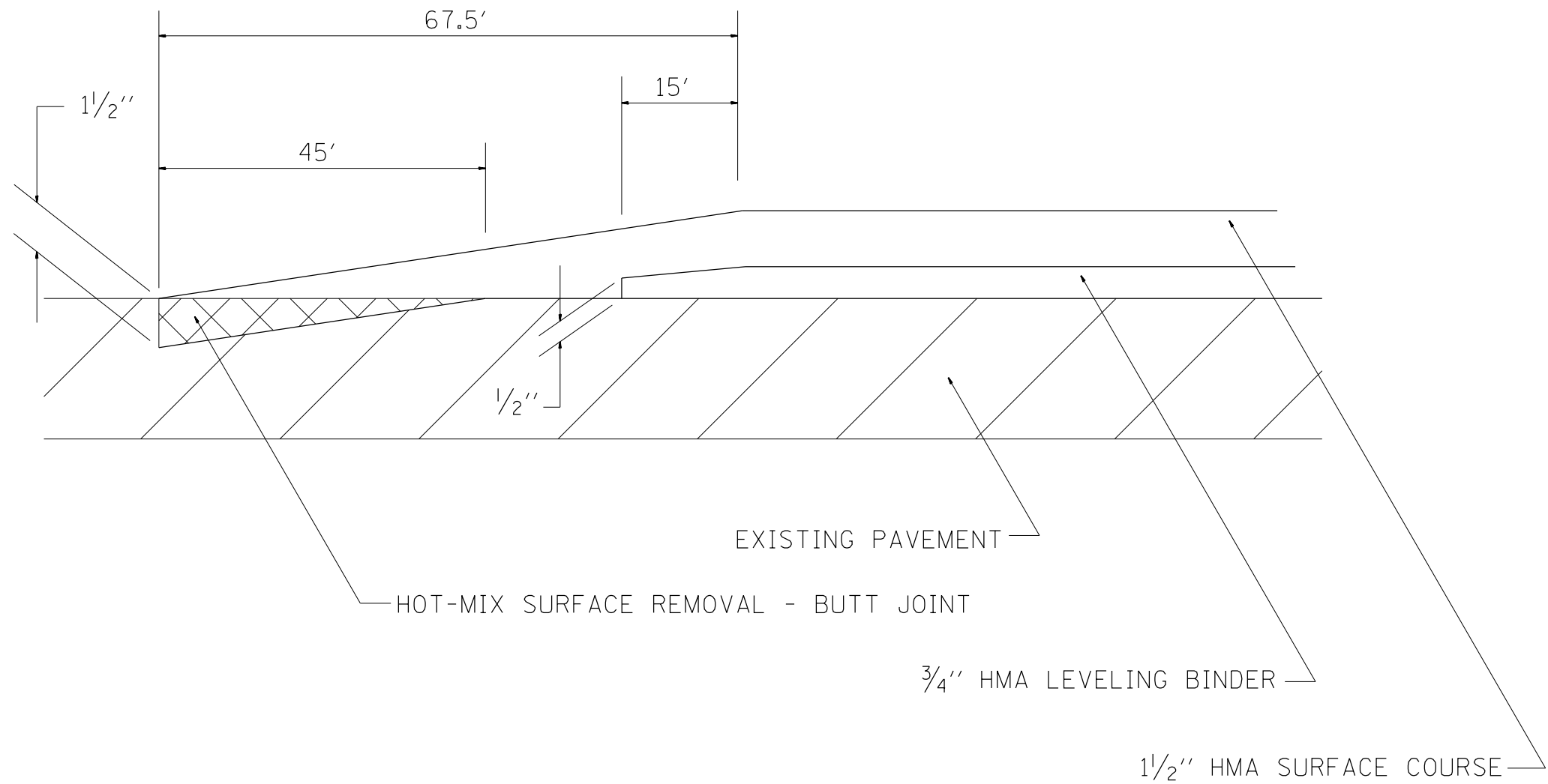
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					303	129T	BOONE	66	14				
										CONTRACT NO. 64H07			
					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

TYPICAL BUTT JOINT TAPER

STA. 90 + 75 – 91 + 42.50

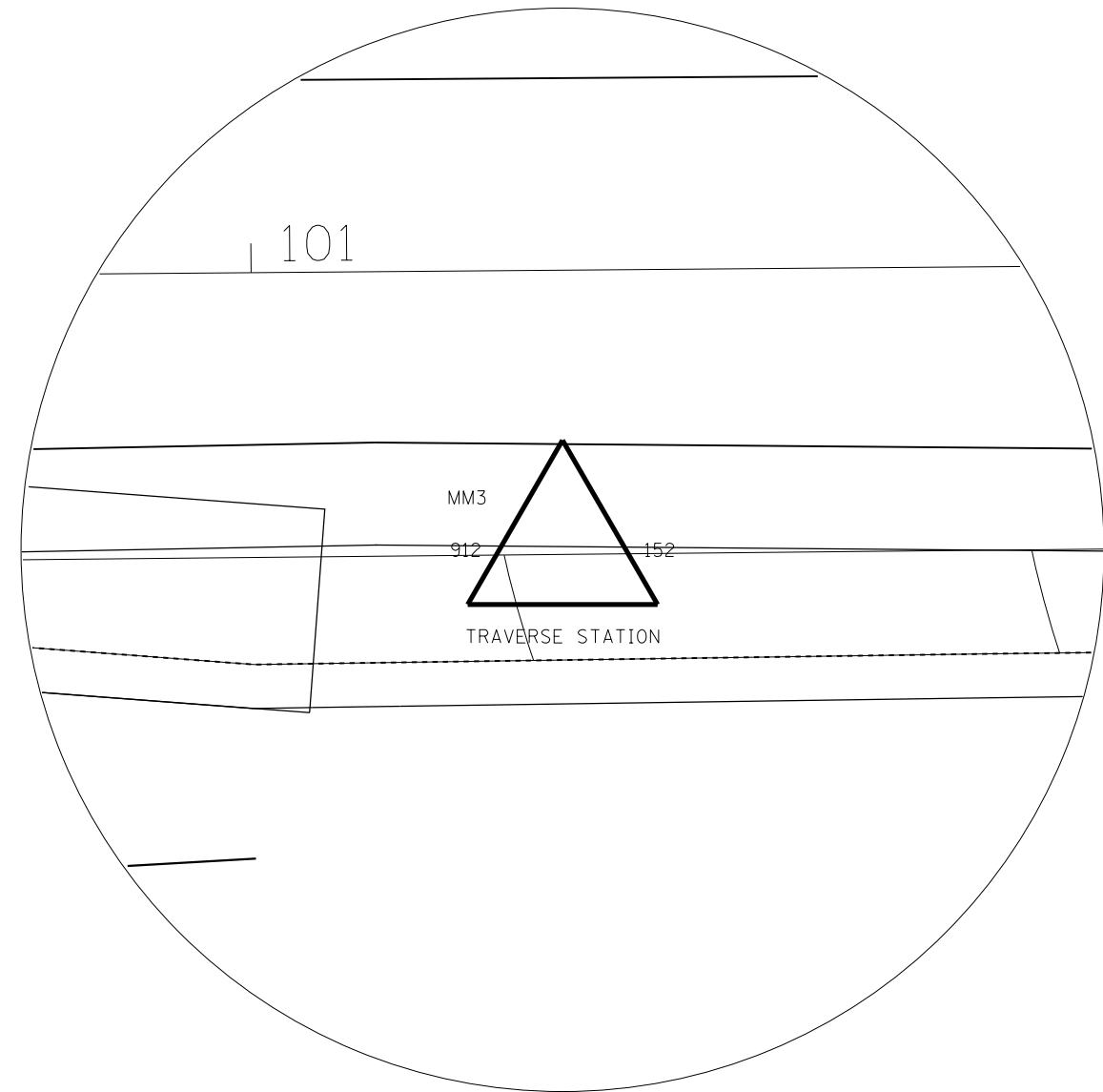
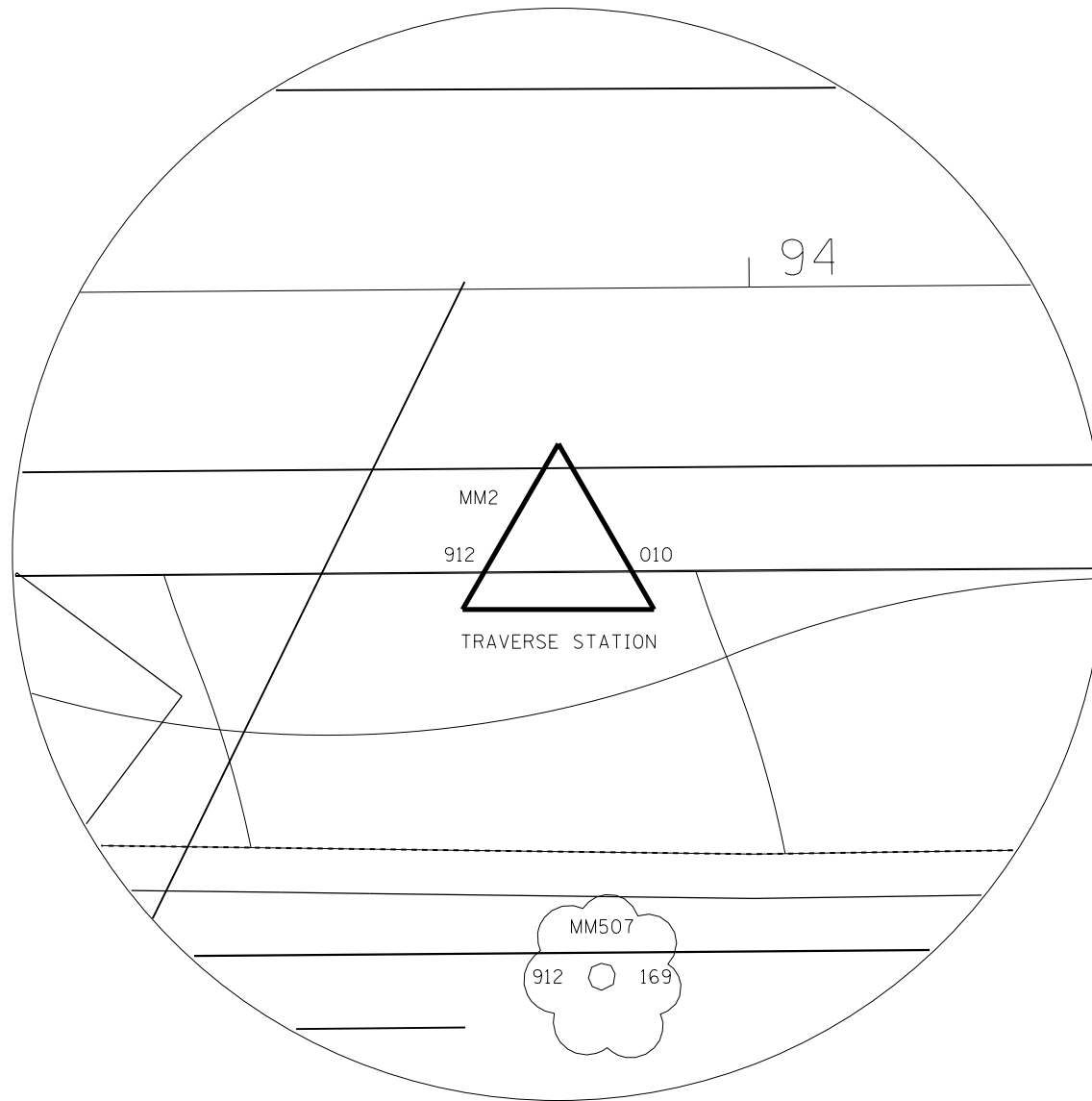
STA. 104 + 32.50 – 105 + 00

TYPICAL TAPER



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		DATE -	REVISED -						CONTRACT NO. 64H07							

HORIZONTAL AND VERTICAL CONTROL



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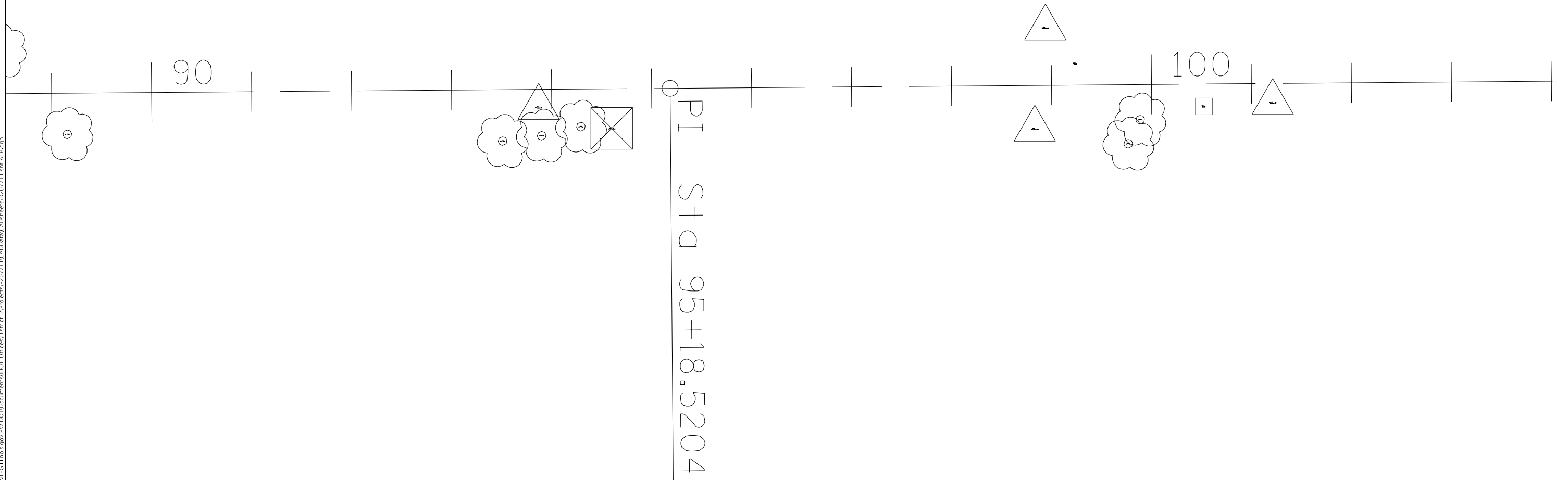
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL
 CONTROL SHEETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	16
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

HORIZONTAL AND VERTICAL CONTROL



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL
 CONTROL SHEETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	17
			CONTRACT NO. 64H07	
		ILLINOIS	FED. AID PROJECT	

HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
MM2	2078148.3685	829587.1615	912.0098	EXIL173BO	93+86.93	18.0017' RT	TRAVERSE STATION, PIN
MM3	2078153.2555	830321.3435	912.1523	EXIL173BO	101+21.13	19.0933' RT	TRAVERSE STATION, PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
MM100	2078126.6140	830083.3740	908.4690	EXIL173BO	98+82.95	43.7881' RT	TRAVERSE STATION, NAIL
MM101	2078227.8910	830093.9420	908.5330	EXIL173BO	98+94.34	57.3991' LT	TRAVERSE STATION, NAIL
MM102	2078532.6600	830568.1690	910.3110	EXIL173BO	103+71.05	358.2803' LT	TRAVERSE STATION, NAIL

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
MM400	2078192.1600	830124.2790	911.8033	EXIL173BO	99+24.39	21.4212' LT	HEADWALL, CHISELED SQUARE

REFERENCE TIES							
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION	
MM503	2078111.7550	830176.7840	EXIL173BO	99+76.23	59.4104' RT	TREE DECIDUOUS, SHINER	
MM504	2078135.8700	830188.7290	EXIL173BO	99+88.38	35.3939' RT	TREE DECIDUOUS, SHINER	
MM505	2078149.3510	830252.4990	EXIL173BO	100+52.25	22.4348' RT	GUARDPOST, SHINER	
MM506	2078128.8760	829629.3410	EXIL173BO	94+28.96	37.8305' RT	TREE DECIDUOUS, SHINER	
MM507	2078119.7770	829590.1160	EXIL173BO	93+89.66	46.6159' RT	TREE DECIDUOUS, SHINER	
MM508	2078114.4730	829551.0100	EXIL173BO	93+50.51	51.6074' RT	TREE DECIDUOUS, SHINER	
MM509	2078121.1750	829115.6960	EXIL173BO	89+15.27	41.4282' RT	TREE DECIDUOUS, SHINER	

APPARENT PROPERTY CORNERS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
MM701	2078127.3460	829660.2590	908.5130	EXIL173BO	94+59.86	39.6075' RT	R.O.W. MARKER

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HORIZONTAL & VERTICAL
CONTROL SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	18
CONTRACT NO. 64H07				
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	UNIT	REMARKS
STA 92+35	38' - RT	8
STA 92+37	38' - RT	15
STA 92+39	38' - RT	15
STA 92+93	62' - RT	8
STA 93+00	51' - RT	6
STA 93+01	51' - RT	6
STA 93+01	58' - RT	6
STA 93+02	60' - RT	6
STA 93+02	67' - RT	6
STA 93+03	68' - RT	6
STA 94+86	49' - RT	8
STA 95+08	51' - RT	15
STA 99+03	67' - RT	10
STA 99+22	47' - RT	8
TOTAL	123	

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	UNIT	REMARKS
STA 91+45	35' - RT	28
STA 92+78	27' - LT	30
STA 92+79	31' - RT	26
STA 92+89	59' - RT	22
STA 94+29	39' - RT	22
STA 94+31	39' - RT	18
STA 94+49	43' - RT	24
STA 98+50	36' - RT	36
STA 98+77	35' - RT	24
STA 99+87	36' - RT	36
TOTAL	266	

20101000 TEMPORARY FENCE

LOCATION	FOOT	REMARKS
STA 98+29 - 102+66	RT	485
TOTAL	485.0	

25000210 SEEDING, CLASS 2A

LOCATION	ACRE	REMARKS
STA 90+50 - 105+00	LT	0.5
STA 90+50 - 105+01	RT	0.5
TOTAL	1.0	

25000310 SEEDING, CLASS 4

LOCATION	ACRE	REMARKS
STA 90+50 - 105+00	LT	0.25
STA 90+50 - 105+01	RT	0.25
TOTAL	0.5	

25000750 MOWING

LOCATION	ACRE	REMARKS
STA 90+50 - 105+00	LT	0.5
STA 90+50 - 105+00	RT	0.5
TOTAL	1.0	

25100630 EROSION CONTROL BLANKET

LOCATION	SO YD	REMARKS
STA 90+50 - 105+00	LT	3652
STA 90+50 - 105+00	RT	3608
TOTAL	7260	

25100900 TURF REINFORCEMENT MAT

LOCATION	SO YD	REMARKS
STA 99+13	LT	51
TOTAL	51	

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION	POUND	REMARKS
STA 90+50 - 105+LT & RT		600
TOTAL	600	

28000305 TEMPORARY DITCH CHECKS

LOCATION	FOOT	REMARKS
STA 90+75	31' - LT	14
STA 92+75	49' - LT	14
STA 92+86	49' - LT	14
STA 93+38	51' - LT	14
STA 93+50	50' - LT	14
STA 94+50	44' - LT	14
STA 96+00	34' - LT	14
STA 98+00	39' - LT	14
STA 98+88	44' - LT	14
STA 99+38	44' - LT	14
STA 101+00	34' - LT	14
STA 102+00	37' - LT	14
STA 99+25	44' - RT	14
STA 99+50	35' - RT	14
STA 100+75	34' - RT	14
STA 102+75	31' - RT	14
TOTAL	224	

28000400 PERIMETER EROSION BARRIER

LOCATION	FOOT	REMARKS
STA 90+75 - 102+75	RT	1726
TOTAL	1726	

28000400 INLET AND PIPE PROTECTION

LOCATION	SO FT	REMARKS
STA 93+05	56' - LT	1
STA 99+13	53' - LT	1
TOTAL	2	

28100107 STONE RIPRAP, CLASS A4

LOCATION	SO YD	REMARKS
STA 93+05		30
STA 99+08		112
TOTAL	142	

28200200 FILTER FABRIC

LOCATION	SO YD	REMARKS
STA 93+05	RT	30
STA 99+08	RT	112
TOTAL	142	

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

LOCATION	SO YD	REMARKS
STA 90+75 - 91+50	130	(45' x 26')
STA 102+00 - 102+75	130	(45' x 26')
TOTAL	260	

40600990 TEMPORARY RAMP

LOCATION	SO YD	REMARKS
STA 90+75 - 91+50	14.5	(26' x 5')
STA 102+00 - 102+75	14.5	(26' x 5')
TOTAL	29	

44201383 CLASS C PATCHES, TYPE IV, 12 INCH

LOCATION	SO YD	REMARKS
STA 92+87 - 93+23	104	(36' x 26')
STA 98+72 - 99+38	190	(65.75' x 26')
TOTAL	294	

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

LOCATION	EACH	REMARKS
STA 93+04	1	(Single Cell 3' x 5')
TOTAL	1	

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

LOCATION	EACH	REMARKS
STA 99+08	1	(Double Cell 7' x 4')
TOTAL	1	

50200450 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES

LOCATION	CU YD	REMARKS
STA 93+05	62	
STA 99+08	146	
TOTAL	208	

51500100 NAME PLATES

LOCATION	EACH	REMARKS
STA 93+05	1	
STA 99+08	1	
TOTAL	2	

52200020 TEMPORARY SOIL RETENTION SYSTEM

LOCATION	SO FT	REMARKS
STA 93+05		281
STA 99+08		500
TOTAL	781	

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1

LOCATION	EACH	REMARKS
STA 99+08	26' - LT	2
STA 99+08	26' - RT	2
TOTAL	4	

SCHEDULE OF QUANTITIES

61101013 STORM SEWERS PROTECTED, CLASS A, 12"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	50	
TOTAL	50	

61133200 FIELD TILE JUNCTION VAULTS, 3' DIA.

LOCATION	EACH	REMARKS
As Needed & Directed by the Resident	2	
TOTAL	2	

63200310 GUARDRAIL REMOVAL

LOCATION	FOOT	REMARKS
STA 97+79 - 101+07 LT	328	
STA 97+01 - 100+55 RT	354	
TOTAL	682	

63500105 DELINEATORS

LOCATION	EACH	REMARKS
STA 93+04 LT	1	
STA 93+04 RT	1	
STA 98+88 RT	1	
STA 99+20 LT	1	
TOTAL	4	

54010805 PRECAST CONCRETE BOX CULVERTS 8' x 5'

LOCATION	FOOT	REMARKS
STA 99+08	102	2 @ 51'
TOTAL	102	

542A0265 PIPE CULVERTS, CLASS A, TYPE 1 60"

LOCATION	FOOT	REMARKS
STA 93+05	60	
TOTAL	60	

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

LOCATION	FOOT	REMARKS
STA 94+46	62	
TOTAL	62	

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

LOCATION	EACH	REMARKS
Estimated quantity for field tile	1	
TOTAL	1	

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

LOCATION	EACH	REMARKS
Estimated quantity for field tile	1	
TOTAL	1	

54215412 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"

LOCATION	EACH	REMARKS
Estimated quantity for field tile	1	
TOTAL	1	

54260315 TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION

LOCATION	FOOT	REMARKS
STA 93+05	28' LT	70.5
STA 93+05	28' RT	70.5
STA 99+08	26' LT	190
STA 99+08	26' RT	190
TOTAL		521

54260515 SLOPED METAL END SECTION, STANDARD 542411, 15", 1:6

LOCATION	EACH	REMARKS
STA 94+15	44' - LT	1
STA 94+77	44' - LT	1
TOTAL		2

54261460 CONCRETE END SECTION, STANDARD 542001, 60", 1:4

LOCATION	EACH	REMARKS
STA 93+05	21' - RT	1
STA 93+05	21' - RT	1
TOTAL		2

60100080 FRENCH DRAINS

LOCATION	EACH	REMARKS
STA 97+00	21' - RT	1
TOTAL		1

60100915 PIPE DRAINS 6"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	20	
TOTAL	20	

60100925 PIPE DRAINS 8"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	20	
TOTAL	20	

60100935 PIPE DRAINS 10"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	20	
TOTAL	20	

60100945 PIPE DRAINS 12"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	20	
TOTAL	20	

61100500 EXPLORATION TRENCH 52" DEPTH

LOCATION	FOOT	REMARKS
As Needed & Directed by the Resident	300	
TOTAL	300	

61101007 STORM SEWERS PROTECTED, CLASS A, 6"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	50	
TOTAL	50	

61101009 STORM SEWERS PROTECTED, CLASS A, 8"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	50	
TOTAL	50	

61101011 STORM SEWERS PROTECTED, CLASS A, 10"

LOCATION	FOOT	REMARKS
Estimated quantity for field tile	50	
TOTAL	50	

SCHEDULE OF QUANTITIES

LOCATION	EACH	REMARKS
STA 91+50	44' - LT	1
STA 92+84	81' - LT	1
STA 93+24	80' - LT	1
STA 96+00	50' - LT	1
STA 98+00	50' - LT	1
STA 98+75	56' - LT	1
STA 99+00	85' - LT	1
STA 99+64	70' - LT	1
STA 100+00	50' - LT	1
STA 101+00	40' - LT	1
STA 91+00	40' - RT	1
STA 91+50	45' - RT	1
STA 92+50	50' - RT	1
STA 92+86	79' - RT	1
STA 93+26	80' - RT	1
STA 93+50	45' - RT	1
STA 95+19	45' - RT	1
STA 98+25	45' - RT	1
STA 98+51	80' - RT	1
STA 99+11	80' - RT	1
STA 99+50	45' - RT	1
STA 100+00	45' - RT	1
STA 101+00	39' - RT	1
TOTAL		23

66700305 PERMANENT SURVEY MARKERS, TYPE II

LOCATION	EACH	REMARKS
As Directed by the Resident & Chief of Surveys	2	
TOTAL		2

70103815 TRAFFIC CONTROL SURVEILLANCE

LOCATION	CAL DA	REMARKS
As Needed & Directed by the Resident	30	
TOTAL		30

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

LOCATION	EACH	REMARKS
As Needed & Directed by the Resident	1	
TOTAL		1

70106700 TEMPORARY RUMBLE STRIPS

LOCATION	EACH	REMARKS
STA TBD	1	
STA TBD	1	
STA TBD	1	
STA TBD	1	
STA TBD	1	
STA TBD	1	
TOTAL		6

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

LOCATION	FOOT	REMARKS
STA 95+48 - 97+97	RT 249	Stage 3 - White Taper
STA 97+27 - 97+96	LT 69	Stage 3 - White Taper
STA 97+97 - 100+13	LT 216	Stage 3 - White EOP
STA 97+97 - 100+13	RT 216	Stage 3 - White EOP
STA 100+13 - 100+81	LT 68	Stage 3 - White Taper
STA 100+13 - 102+07	RT 194	Stage 3 - White Taper
STA 96+22 - 97+97	LT 175	Stage 4 - White Taper
STA 97+18 - 97+97	RT 79	Stage 4 - White Taper
STA 97+97 - 100+13	LT 216	Stage 4 - White EOP
STA 97+97 - 100+13	RT 216	Stage 4 - White EOP
STA 100+13 - 102+68	LT 255	Stage 4 - White Taper
STA 100+13 - 101+09	RT 96	Stage 4 - White Taper
TOTAL		2049

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

LOCATION	FOOT	REMARKS
STA 95+38	12	Stop Bar
STA 102+78	12	Stop Bar
TOTAL		24

70400100 TEMPORARY CONCRETE BARRIER

LOCATION	FOOT	REMARKS
STA 97+16 - 98+41	LT 125	
STA 98+41 - 99+66	LT 125	
STA 99+66 - 100+91	LT 125	
TOTAL		375

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	FOOT	REMARKS
STA 97+16 - 98+41	RT 125	
STA 98+41 - 99+66	RT 125	
STA 99+66 - 100+91	RT 125	
TOTAL		375

70500100 TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A

LOCATION	FOOT	REMARKS
STA 98+04 - 98+29	RT 25	
STA 99+98 - 100+23	RT 25	
TOTAL		50

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	EACH	REMARKS
STA 97+16	RT 1	
STA 100+91	RT 1	
TOTAL		2

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	EACH	REMARKS
STA 97+16	LT 1	
STA 100+91	LT 1	
TOTAL		2

78001110 PAINT PAVEMENT MARKING - LINE 4" (2 Applications)

LOCATION	FOOT	REMARKS
White		
STA 90+75 - 102+75	LT 2400	EOP
STA 90+75 - 102+75	RT 2400	EOP
WHITE TOTAL		4800
Yellow		
STA 90+75 - 102+75	600	Centerline - Skip Dash
YELLOW TOTAL		600
TOTAL		5400

SCHEDULE OF QUANTITIES

78100100 RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	EACH	REMARKS
STA 90+75 - 102+75	17	Two-way Amber @ 80' O.C.
TOTAL	17	

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

LOCATION	EACH	REMARKS
STA 90+75 - 102+75	17	
TOTAL	17	

X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING

LOCATION	SO FT	REMARKS
STA 95+38 - 97+09	15	Stage 3 - Skip Dashes
STA 97+27 - 100+81 LT	118	Stage 3 - EOP
STA 101+00 - 102+78	15	Stage 4 - Skip Dashes
STA 97+18 - 101+09 RT	130	Stage 4 - EOP
TOTAL	278	

X2300009 LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN (SPECIAL)

LOCATION	FOOT	REMARKS
STA 98+29 - 99+98 LT	169	Stage 3
TOTAL	169	

X4400110 TEMPORARY PAVEMENT REMOVAL

LOCATION	SO YD	REMARKS
STA 92+40 - 93+67 LT	55	Stage 1
STA 97+14 - 100+93 LT	225	Stage 3
TOTAL	280	

X7040125 PINNING TEMPORARY CONCRETE BARRIER

LOCATION	EACH	REMARKS
STA 93+05	30	
STA 99+04	30	
TOTAL	60	

X7050167 TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

LOCATION	EACH	REMARKS
STA 97+54 - 98+04	1	
STA 100+23 - 100+73	1	
TOTAL	2	

Z0004405 HOT-MIX ASPHALT SCARIFICATION

LOCATION	SO YD	REMARKS
STA 91+42 - 104+33	3727	
TOTAL	3727	

Z0054400 ROCK FILL

LOCATION	CU YD	REMARKS
STA 93+05	63	
STA 99+04	177	
TOTAL	240	

Z0062456 TEMPORARY PAVEMENT

LOCATION	SO YD	REMARKS
STA 92+40 - 93+67 LT	55	Stage 1
STA 97+14 - 100+93 LT	225	Stage 3
TOTAL	280	

EARTHWORK SCHEDULE				
LOCATION	20200100 EARTH EX. (CUT) (CU YD)	EARTH EX. ADJ SHRINK 25% (CU YD)	EMBANKMENT (FILL) (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)
90+00 - 96+50	939.6	704.7	537.9	166.8
96+50 - 105+50	468.9	351.7	881.0	-529.3
Total	1408.5	1056.4	1418.9	-362.5

HOT-MIX ASPHALT SCHEDULE

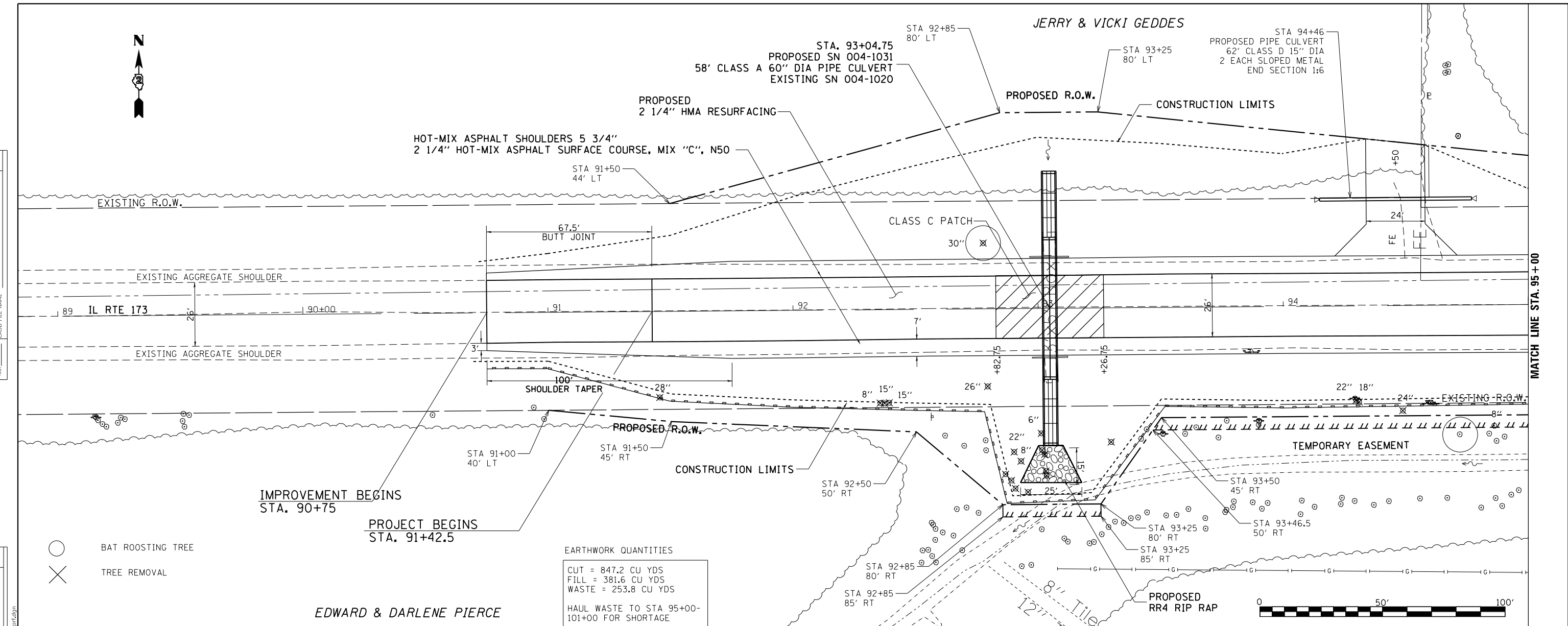
LOCATION	REMARKS	LENGTH	PROPOSED SURFACE		30300112	40600275 **	40600290 *	40600625	40603310	40603335	48203020	70300100	70300150
			AGG SUBGRADE IMPR 12	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LEVEL BINDER MM N50	HMA SC "C" N50	HMA SC "D" N50	HMA SHOULDERS 5 3/4	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL		
			WIDTH	SQ YD	SQ YD	LBS	LBS	TON	TON	TON	SQ YD	FOOT	SQ FT
IL 173 - MAINLINE													
STA 90+75 - 91+43	BUTT JOINT	68	26	196.4		442	44	11		16.5		40.8	13.6
STA 91+43 - 104+33		1290	26	3726.7		8385	839	209		313.0		774.8	258.3
STA 104+33 - 105+00	BUTT JOINT	68	26	196.4		442	44	11		16.5		40.8	13.6
IL 173 - SHOULDERS LT													
STA 90+75 - 91+43		68	3	22.7	30.2	51	5		3.2		22.7	40.8	13.6
STA 91+43 - 91+92	TAPER	50	VAR 3-7	27.8	33.3	63	6		3.9		27.8	30.0	10.0
STA 91+92 - 101+58		965	7	750.6	857.8	1689	169		105.1		750.6	579.6	193.2
STA 101+58 - 102+08	TAPER	50	VAR 3-7	27.8	33.3	63	6		3.9		27.8	30.0	10.0
STA 102+08 - 104+33		225	3	75.0	100.0	169	17		10.5		75.0	135.1	45.0
IL 173 SHOULDERS RT													
STA 90+75 - 91+43		68	3	22.7	30.2	51	5		3.2		22.7	40.8	13.6
STA 91+43 - 91+92	TAPER	50	VAR 3-7	27.8	33.3	63	6		3.9		27.8	30.0	10.0
STA 91+92 - 101+58		965	7	750.6	857.8	1689	169		105.1		750.6	579.6	193.2
STA 101+58 - 102+08	TAPER	50	VAR 3-7	27.8	33.3	63	6		3.9		27.8	30.0	10.0
STA 102+08 - 104+33		225	3	75.0	100.0	169	17		10.5		75.0	135.1	45.0
Total =					2109.3	13336.0	1333.6	230.7	253.1	346.0	1807.6	2487.7	829.2

* Bit Tack Coat Rate of Application = 0.05 lbs/Sq Yd on Pavement & 0.025 lbs/Sq Yd between HMA Lifts

** Bit Prime Coat Rate of Application = 0.25 lbs/Sq Yd on Gravel

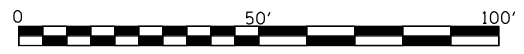
DATE	
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PLAN	
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DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	



EARTHWORK QUANTITIES
 CUT = 847.2 CU YDS
 FILL = 381.6 CU YDS
 WASTE = 253.8 CU YDS
 HAUL WASTE TO STA 95+00-101+00 FOR SHORTAGE

- BAT ROOSTING TREE
- × TREE REMOVAL



Station	Flood	Return Period (YR)	Discharge (cfs)		Headwater Elev. (ft)		
			Existing	Proposed	Existing	Proposed	
930	10-Year	004-1021	289	285	911.33	909.41	
			004-1020	71	74	911.33	909.41
			Total	359	359	911.33	909.41
925	OVT (E) 38 YR	004-1021	493	NA	912.97	-	
			004-1020	121	NA	912.97	-
			Total	614	NA	912.97	-
920	50-Year	004-1021	NA	554	-	911.00	
			004-1020	NA	143	-	911.00
			Total	NA	697	-	911.00
915	100-Year	004-1021	NA	712	-	912.31	
			004-1020	NA	189	-	912.31
			Total	NA	901	-	912.31
910	OVT (P) 126 YR	004-1021	NA	781	-	912.97	
			004-1020	NA	194	-	912.97
			Total	NA	975	-	912.97
910	10-Year Velocity through Exist. Structure (fps)		= 5.36 (1021), 5.13 (1020)				
	10-Year Velocity through Prop. Structure (fps)		= 4.64 (1032), 4.57 (1031)				

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USER NAME = millerm	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = Mar-19-2018 10:18:55 AM	CHECKED -	REVISED -
	DATE -	REVISED -

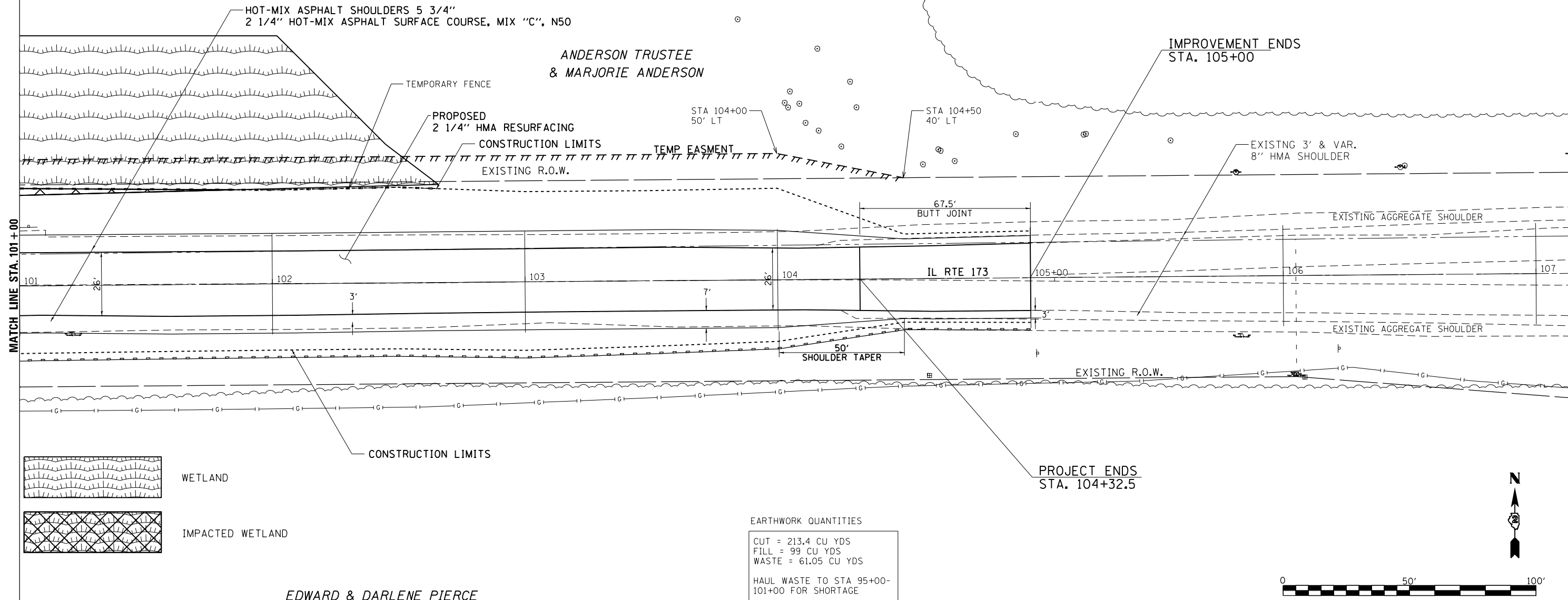
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL RTE 173 PLAN & PROFILE	
SCALE:	SHEET OF SHEETS STA. TO STA.

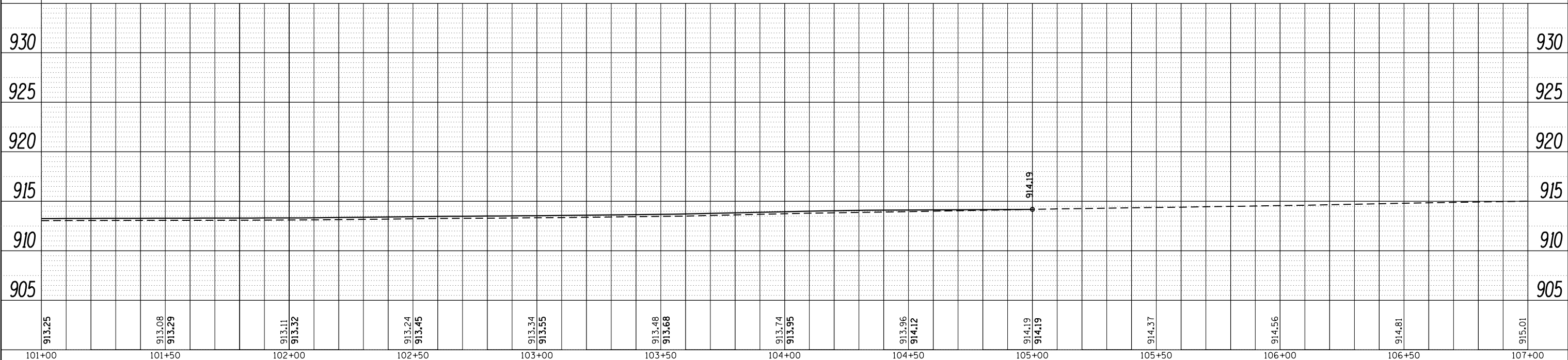
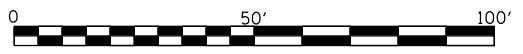
F.A.P. RTE. 303	SECTION 129T	COUNTY BOONE	TOTAL SHEETS 66	SHEET NO. 24
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



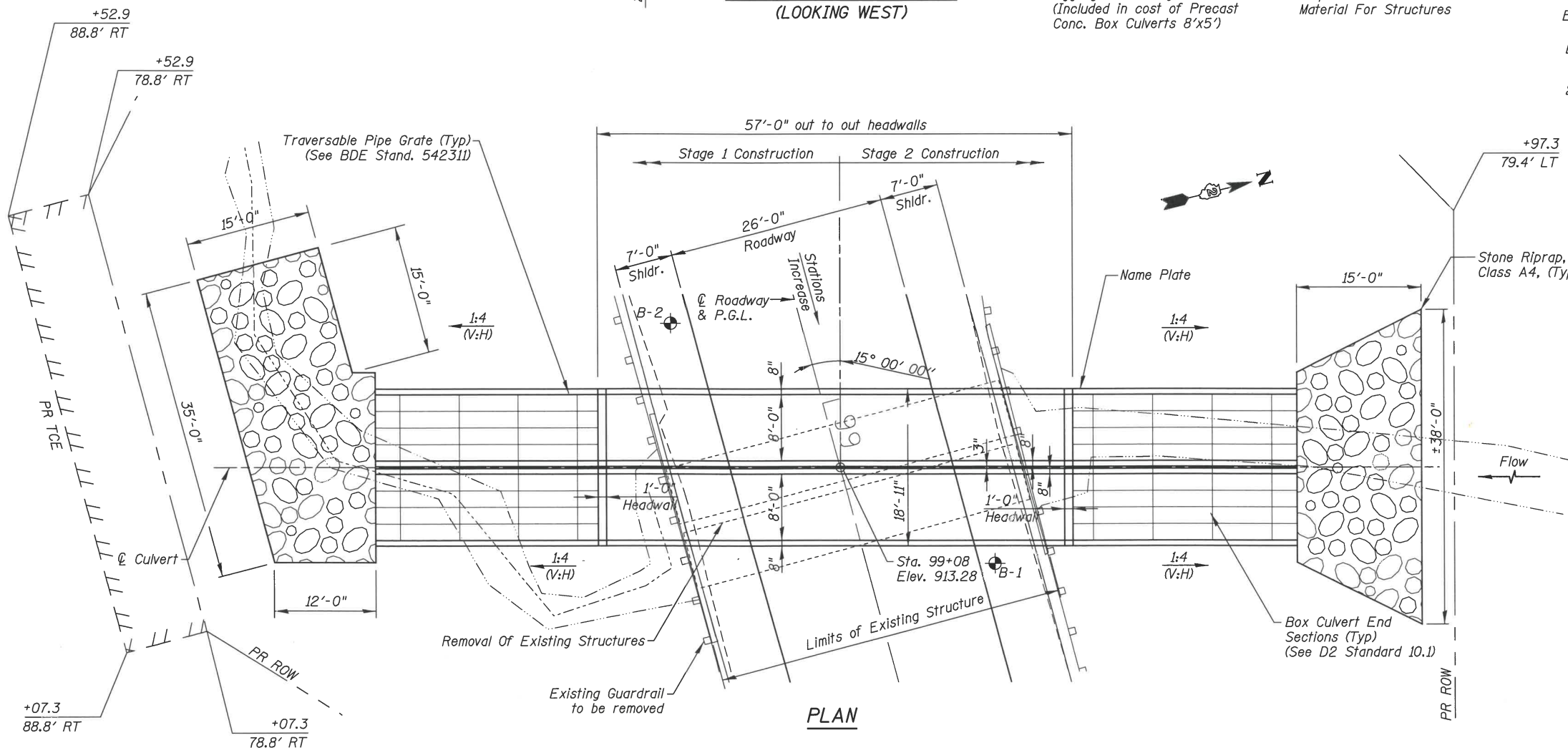
EARTHWORK QUANTITIES
 CUT = 213.4 CU YDS
 FILL = 99 CU YDS
 WASTE = 61.05 CU YDS
 HAUL WASTE TO STA 95+00-101+00 FOR SHORTAGE



FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 173 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -			303	129T	BOONE	66	26
		DATE -	REVISED -			CONTRACT NO. 64H07			ILLINOIS FED. AID PROJECT	
						SCALE:	SHEET	OF	SHEETS	STA.

Existing Structure: Double 7'W x 4'H RCBC (ESN 004-1021, PSN 004-1032)
 Traffic Control: One lane of traffic will be maintained utilizing stage construction & temporary bridge traffic signals.
 Salvage: None.
 Bench Mark 400
 Station: 99+24.3876
 Offset: 21.4212' Lt
 Northing: 2078192.1600 Easting: 830124.2790
 Elevation: 911.8033
 (Chis. Square on North Headwall of East Culvert)
 Vertical Datum: NAVD88
 Coordinates: Grid-IL East Zone)

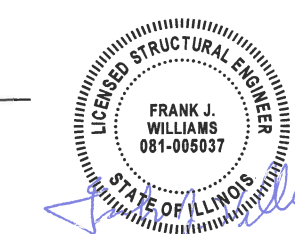
Notes:
 ① For Bill of Materials, see Sheet 39.
 ② Longitudinal Section View Scale = 2:1
 (Vertical : Horizontal)



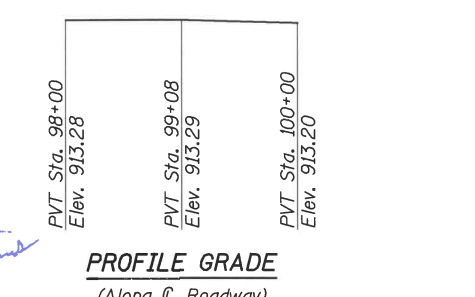
WATERWAY INFORMATION

Drainage Area = 1.627 sq. mi.		Low Grade Elev. 912.97 at Sta. 99+04	
Flood	Frequency Yr.	Discharge C.F.S.	Headwater El. Exist Prop.
Ten Year	10	285	911.33 909.41
Design	50	554	— 911.00
Base	100	712	— 912.31
Ex Overtopping	38	493	912.97 —
Pr Overtopping	126	781	— 912.97

Station	Size (Span x Height)	Skew	Design Fill (ft.)		Trench backfill required
			Edge of shldr. (minimum)	Maximum	
99+08	2 - 8'x5'	15°	2'-1"	2'-6"	YES



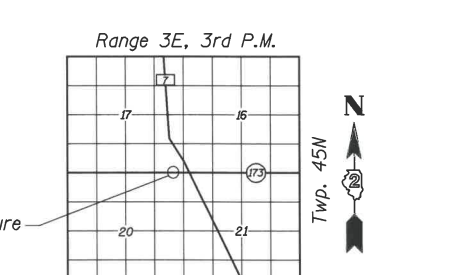
Expires 11-30-2018
 Date: 03/15/2018
 for drawings 27 and 38 thru 41



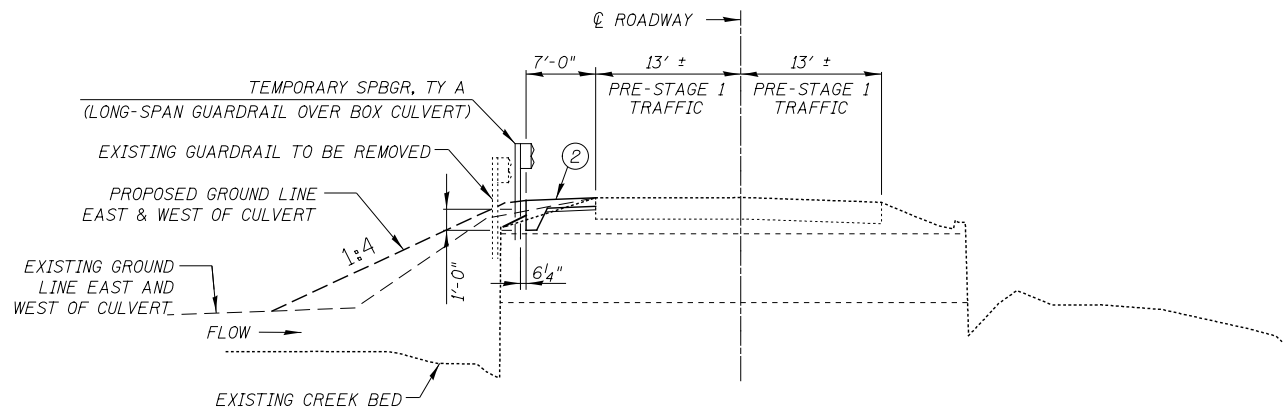
DESIGN SPECIFICATIONS
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

ASTM C 1577 DESIGN STRESSES
PRECAST UNITS
 $f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Reinforcement)

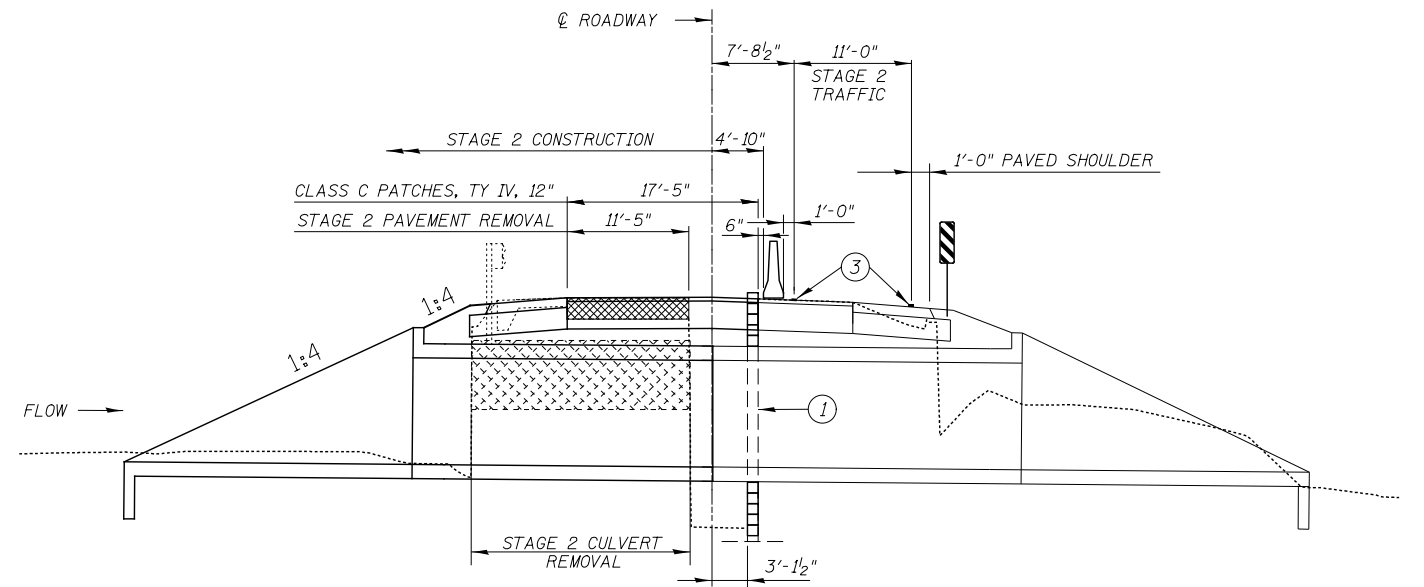
LOADING HL-93
 Allow 50#/SQ. Ft. For Future Wearing Surface



LOCATION SKETCH
GENERAL PLAN & ELEVATION
 FAP RTE 303 (IL 173)
 OVER UN-NAMED DRAINAGE DITCH
 SEC. 129T
 BOONE COUNTY
 STA. 99+08
 STRUCTURE NO. 004-1032



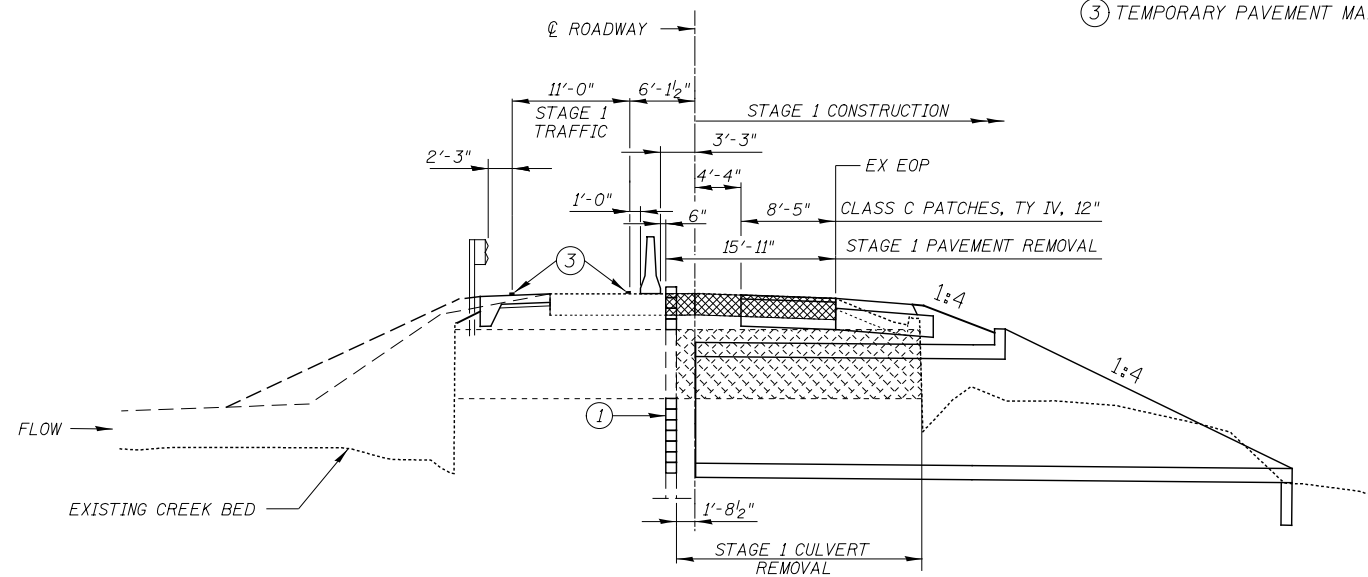
PRE-STAGE 1B CULVERT SECTION
 (PRE-STAGE 1A NOT SHOWN AS THERE IS NO TEMP PAVEMENT WIDENING OVER THE CULVERT ON THE SOUTH SIDE OF IL 173, LOOKING UP STATION)



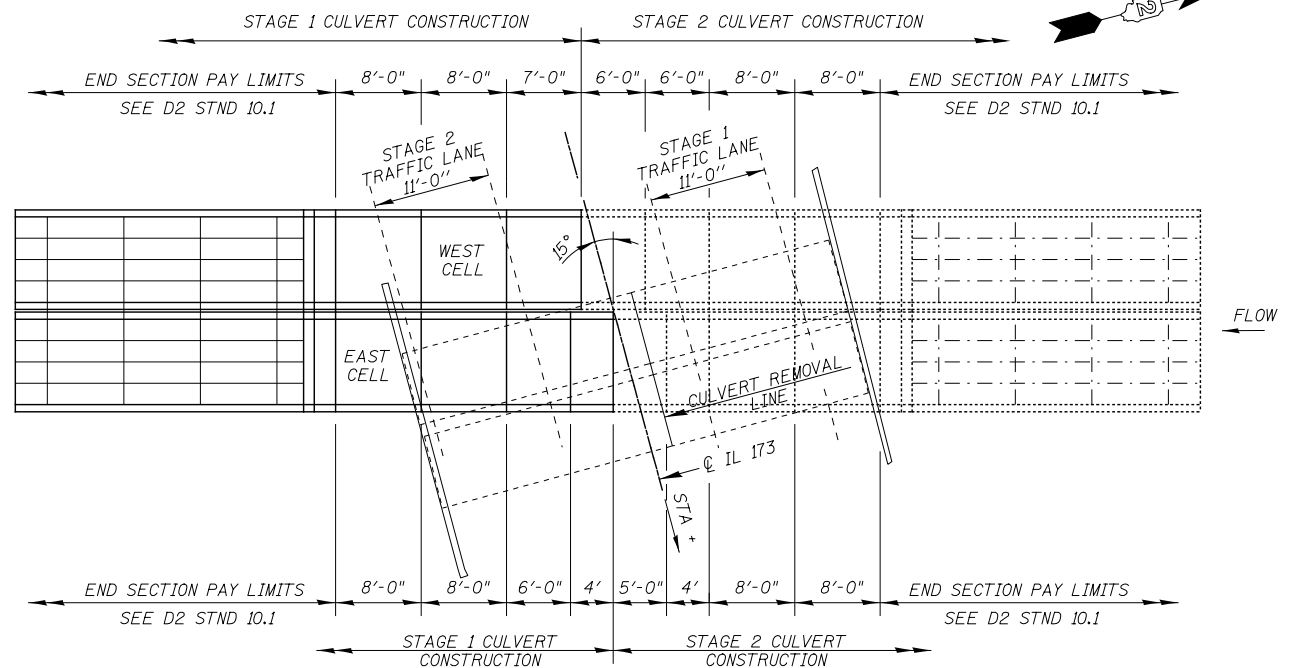
STAGE 2 CULVERT SECTION
 (LOOKING UP STATION
 @ RT ANGLE TO CL IL-173)

NOTES:

- ① TEMPORARY SOIL RETENTION SYSTEM
- ② TEMPORARY PAVEMENT (SPECIAL) FOR STAGE 1 TRAFFIC, SEE MOT PRE-STAGE 1B SHEETS FOR DIMENSIONS. ALSO REFER TO SPECIAL PROVISION.
- ③ TEMPORARY PAVEMENT MARKING LINE, 4"



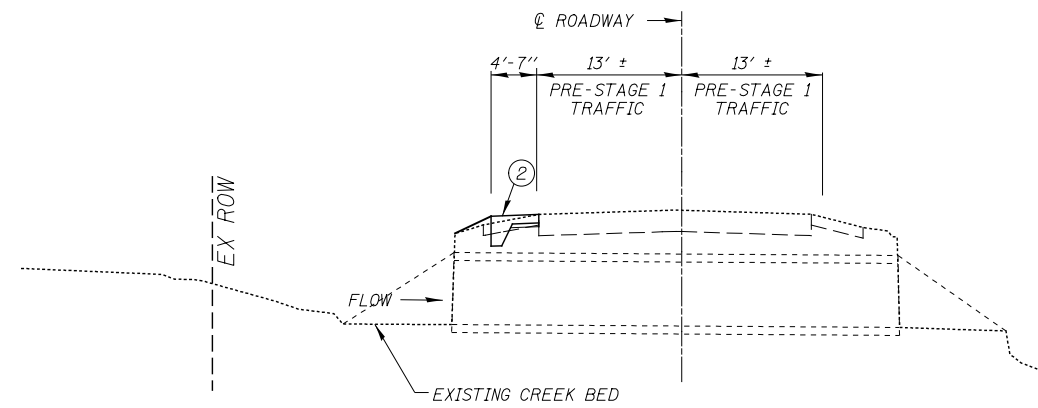
STAGE 1 CULVERT SECTION
 (LOOKING UP STATION
 @ RT ANGLE TO CL IL-173)



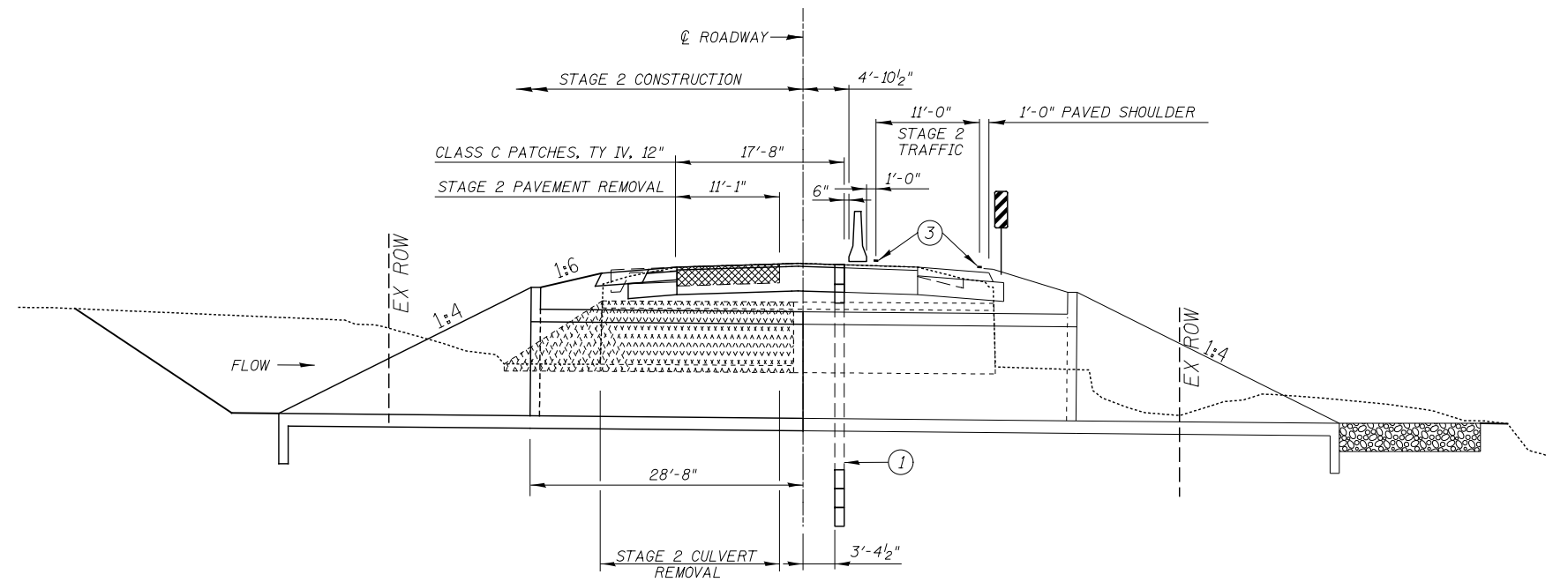
CULVERT SECTION CONSTRUCTION

MAINTENANCE OF TRAFFIC NOTES

- 1. THE TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WITH 3 ANCHORS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL. THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING HOLES SHALL BE CORE DRILLED. ALSO, REFER TO SPECIAL PROVISION.
- 2. ALL EXISTING GUIDE SIGNS (i.e. STREET NAME SIGNS, ADVANCE STREET NAME SIGNS, ROUTE MARKERS, ETC.) SHALL BE MAINTAINED AND VISIBLE TO TRAFFIC DURING CONSTRUCTION.
- 3. LONG-SPAN GUARDRAIL AND TRAFFIC BARRIER TERMINALS SHALL BE REMOVED UPON COMPLETION OF STAGE 1 CONSTRUCTION AND AFTER SWITCHING TRAFFIC TO THE STAGE 2 TRAFFIC PATTERN. THESE ITEMS SHALL BE TREATED AS TEMPORARY GUARDRAIL AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR AFTER REMOVAL. THE CONTRACTOR SHALL BID THESE PAY ITEMS ACCORDINGLY.
- 4. NO EQUIPMENT, VEHICLES, MATERIALS OR OTHER HAZARDS SHALL BE STORED OR PARKED WITHIN 2' OF THE BARRIER WALL AND 25' OF THE IMPACT ATTENUATORS.



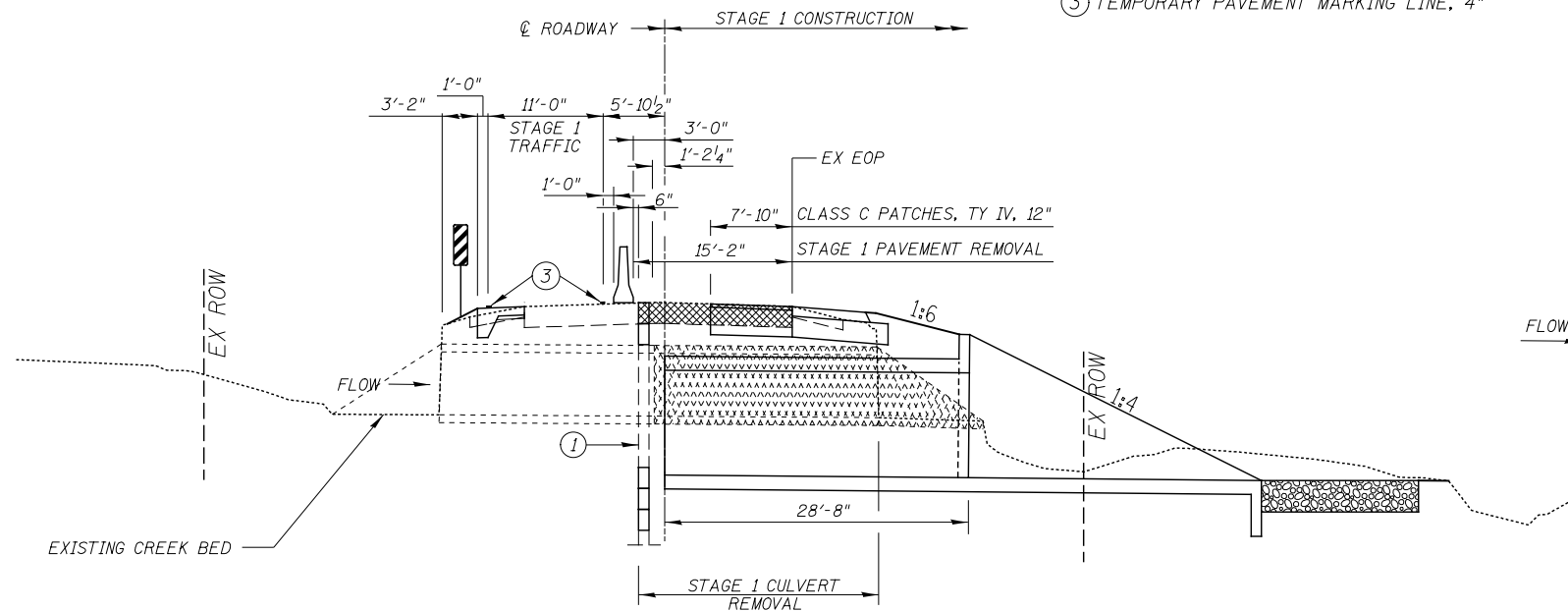
PRE-STAGE 1B CULVERT SECTION
 (PRE-STAGE 1A NOT SHOWN AS THERE IS NO TEMP PAVEMENT WIDENING OVER THE CULVERT ON THE SOUTH SIDE OF IL 173, LOOKING UP STATION)



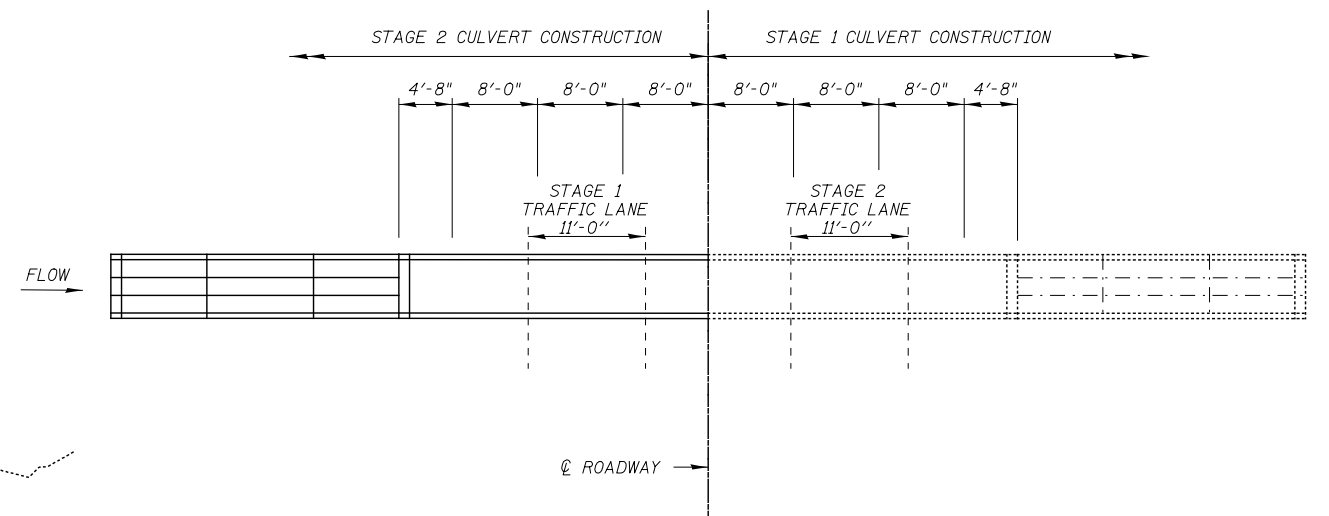
STAGE 2 CULVERT SECTION
 (LOOKING UP STATION
 @ RT ANGLE TO @ IL-173)

NOTES:

- ① TEMPORARY SOIL RETENTION SYSTEM
- ② TEMPORARY PAVEMENT (SPECIAL) FOR STAGE 1 TRAFFIC, SEE MOT PRE-STAGE 1B SHEETS FOR DIMENSIONS. ALSO REFER TO SPECIAL PROVISION.
- ③ TEMPORARY PAVEMENT MARKING LINE, 4"



STAGE 1 CULVERT SECTION
 (LOOKING UP STATION
 @ RT ANGLE TO @ IL-173)



CULVERT SECTION CONSTRUCTION

MAINTENANCE OF TRAFFIC NOTES

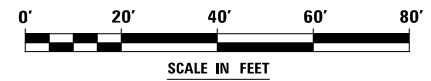
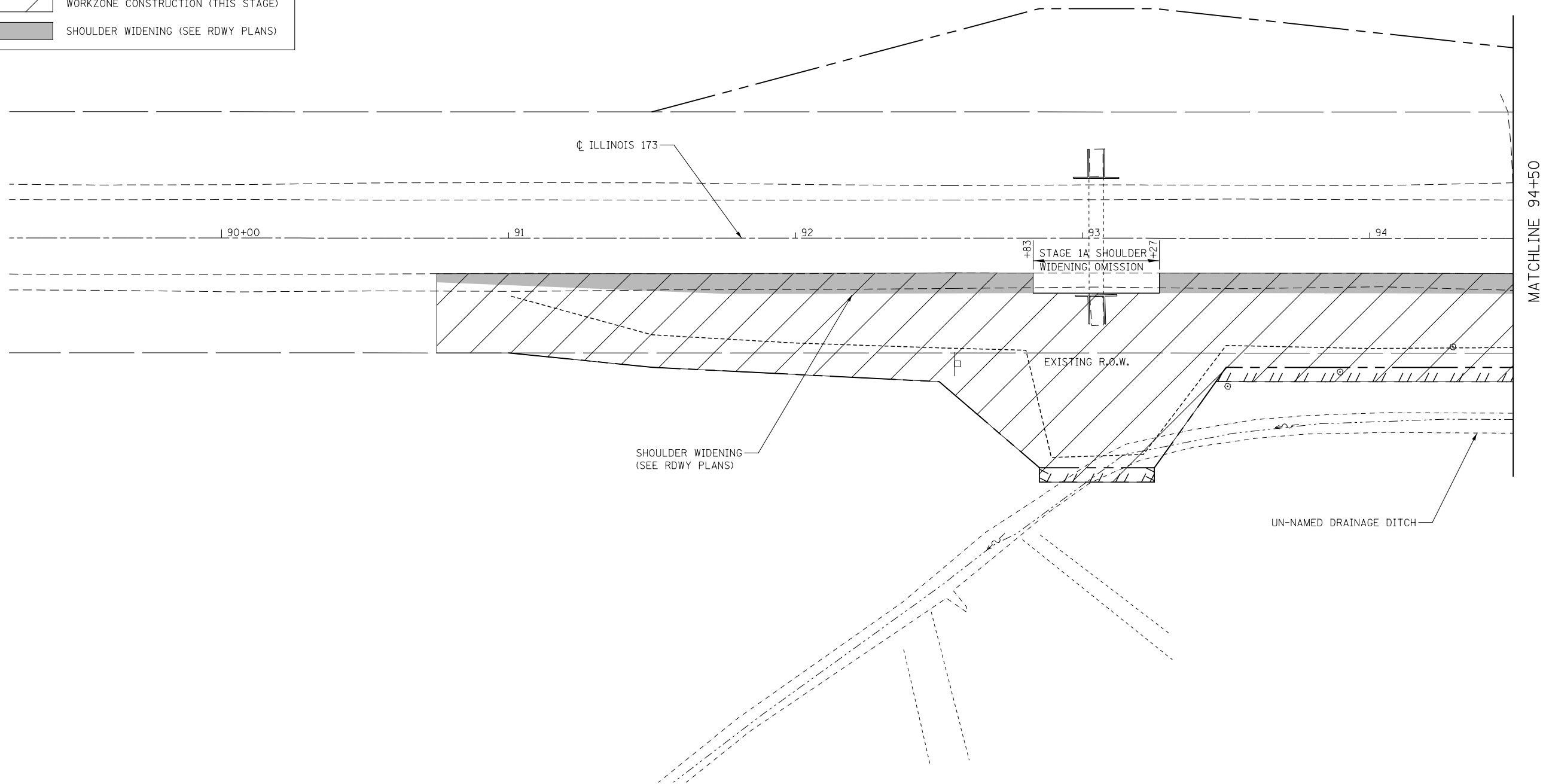
- 1. THE TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WITH 3 ANCHORS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL. THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING HOLES SHALL BE CORE DRILLED. ALSO, REFER TO SPECIAL PROVISION.
- 2. ALL EXISTING GUIDE SIGNS (i.e. STREET NAME SIGNS, ADVANCE STREET NAME SIGNS, ROUTE MARKERS, ETC.) SHALL BE MAINTAINED AND VISIBLE TO TRAFFIC DURING CONSTRUCTION.
- 3. LONG-SPAN GUARDRAIL AND TRAFFIC BARRIER TERMINALS SHALL BE REMOVED UPON COMPLETION OF STAGE 1 CONSTRUCTION AND AFTER SWITCHING TRAFFIC TO THE STAGE 2 TRAFFIC PATTERN. THESE ITEMS SHALL BE TREATED AS TEMPORARY GUARDRAIL AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR AFTER REMOVAL. THE CONTRACTOR SHALL BID THESE PAY ITEMS ACCORDINGLY.
- 4. NO EQUIPMENT, VEHICLES, MATERIALS OR OTHER HAZARDS SHALL BE STORED OR PARKED WITHIN 2' OF THE BARRIER WALL AND 25' OF THE IMPACT ATTENUATORS.

KNIGHT Engineers & Architects	DESIGNED <i>FJW</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC SN 004-1031		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN <i>NAV</i>	REVISED -				303	129T	BOONE	66	29
PLOT DATE = 3/15/2018	CHECKED <i>CMS</i>	REVISED -	SCALE: AS SHOWN	SHEET NO. 2 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 64H07			
DATE <i>09-12-2017</i>	REVISIONS	REVISED -				ILLINOIS FED. AID PROJECT				

NOTES:

1. IDOT HIGHWAY STANDARD 701326 SHALL BE USED TO INSTALL PROPOSED SHOULDER.

LEGEND	
	EXISTING R.O.W.
	PROPOSED R.O.W.
	TEMPORARY EASEMENT
	EXISTING PAVEMENT
	EXISTING GUARDRAIL
	GRADING LIMITS
	WORKZONE CONSTRUCTION (THIS STAGE)
	SHOULDER WIDENING (SEE RDWY PLANS)



KNIGHT
Engineers & Architects

DESIGNED	<i>FJW</i>	REVISED	-
DRAWN	<i>NAV</i>	REVISED	-
CHECKED	<i>CMS</i>	REVISED	-
DATE	<i>09-12-2017</i>	REVISED	-

DESIGNED	<i>FJW</i>	REVISED	-
DRAWN	<i>NAV</i>	REVISED	-
CHECKED	<i>CMS</i>	REVISED	-
DATE	<i>09-12-2017</i>	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

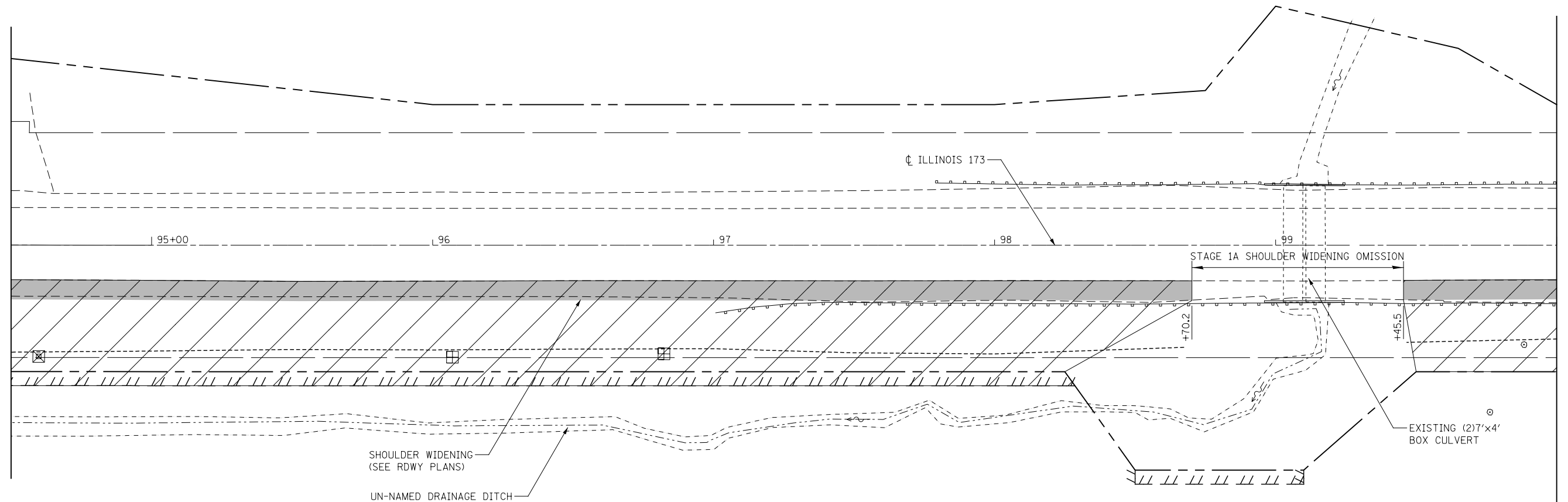
**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - PRESTAGE 1A**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	30
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

SCALE: AS SHOWN | SHEET NO. 3 OF 10 SHEETS | STA. TO STA.

MATCHLINE 94+50

MATCHLINE 100+00



SHOULDER WIDENING
(SEE RDWY PLANS)

UN-NAMED DRAINAGE DITCH

STAGE 1A SHOULDER WIDENING OMISSION

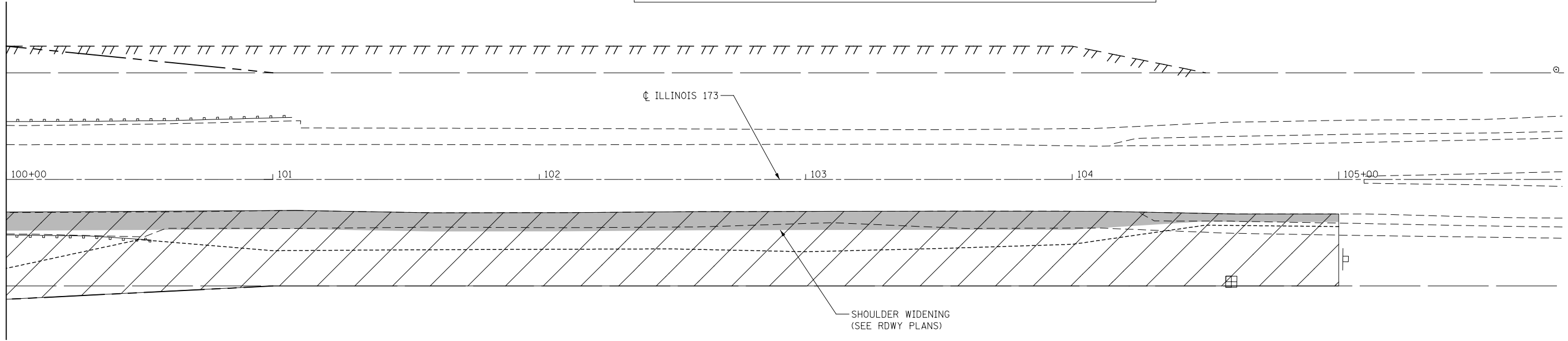
EXISTING (2)7'x4'
BOX CULVERT

LEGEND

	EXISTING R.O.W.		GRADING LIMITS
	PROPOSED R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)
	TEMPORARY EASEMENT		SHOULDER WIDENING (SEE RDWY PLANS)
	EXISTING PAVEMENT		
	EXISTING GUARDRAIL		



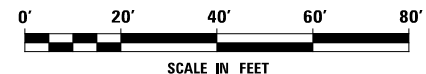
MATCHLINE 100+00



SHOULDER WIDENING
(SEE RDWY PLANS)

NOTES:

1. IDOT HIGHWAY STANDARD 701326 SHALL BE USED TO INSTALL PROPOSED SHOULDER.



KNIGHT
Engineers & Architects

DESIGNED	FJW	REVISED	-
DRAWN	NAV	REVISED	-
CHECKED	CMS	REVISED	-
DATE	09-12-2017	REVISED	-
PLOT DATE	= 3/15/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - PRESTAGE 1A**

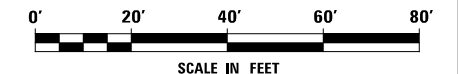
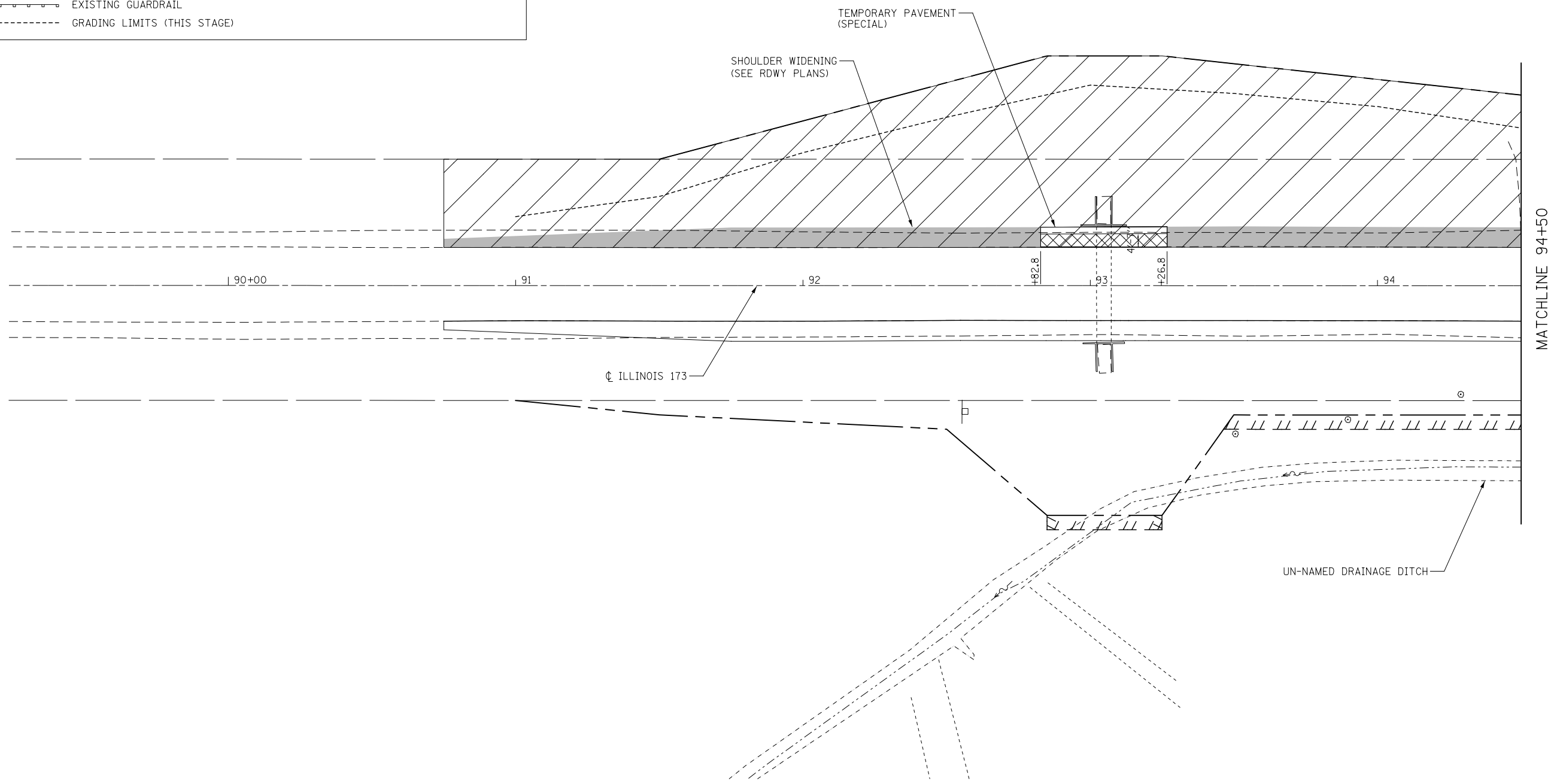
SCALE: AS SHOWN | SHEET NO. 4 OF 10 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	31
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

NOTES:

1. IDOT HIGHWAY STANDARD 701326 SHALL BE USED TO INSTALL TEMPORARY PAVEMENT, PROPOSED SHOULDER & TEMPORARY GUARDRAIL.

LEGEND	
	EXISTING R.O.W.
	PROPOSED R.O.W.
	TEMPORARY EASEMENT
	EXISTING PAVEMENT
	EXISTING GUARDRAIL
	GRADING LIMITS (THIS STAGE)
	WORKZONE CONSTRUCTION (THIS STAGE)
	SHOULDER WIDENING (SEE RDWY PLANS)



DESIGNED	FJW	REVISED	-
DRAWN	NAV	REVISED	-
CHECKED	CMS	REVISED	-
DATE	09-12-2017	REVISED	-

DESIGNED	FJW	REVISED	-
DRAWN	NAV	REVISED	-
CHECKED	CMS	REVISED	-
DATE	09-12-2017	REVISED	-

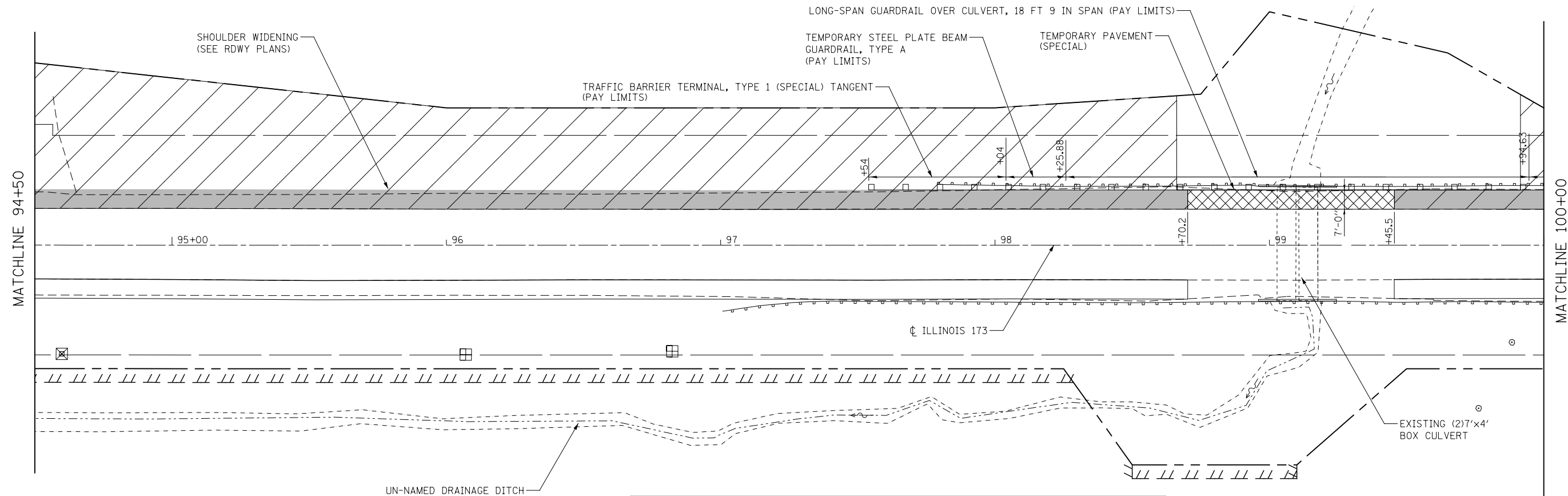
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - PRESTAGE 1B**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	32
CONTRACT NO. 64H07				

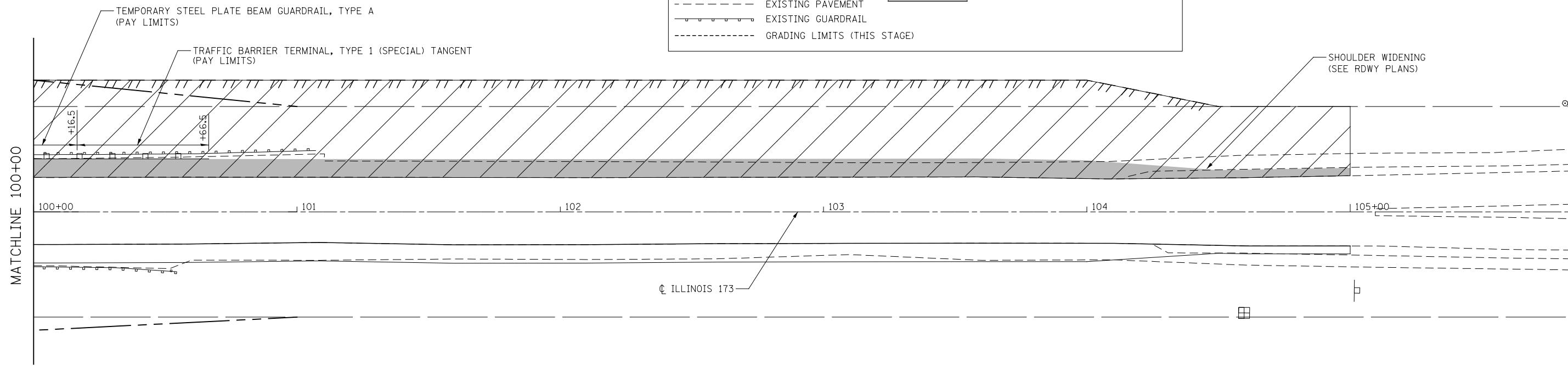
SCALE: AS SHOWN | SHEET NO. 5 OF 10 SHEETS | STA. TO STA.

ILLINOIS FED. AID PROJECT



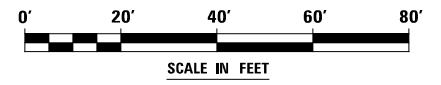
LEGEND

	EXISTING R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)
	PROPOSED R.O.W.		SHOULDER WIDENING (SEE RDWY PLANS)
	TEMPORARY EASEMENT		
	EXISTING PAVEMENT		
	EXISTING GUARDRAIL		
	GRADING LIMITS (THIS STAGE)		



NOTES:

1. IDOT HIGHWAY STANDARD 701326 SHALL BE USED TO INSTALL TEMPORARY PAVEMENT, PROPOSED SHOULDER & TEMPORARY GUARDRAIL.



DESIGNED	FJW	REVISED	-
DRAWN	NAV	REVISED	-
CHECKED	CMS	REVISED	-
DATE	09-12-2017	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - PRESTAGE 1B**

SCALE: AS SHOWN | SHEET NO. 6 OF 10 SHEETS | STA. TO STA.

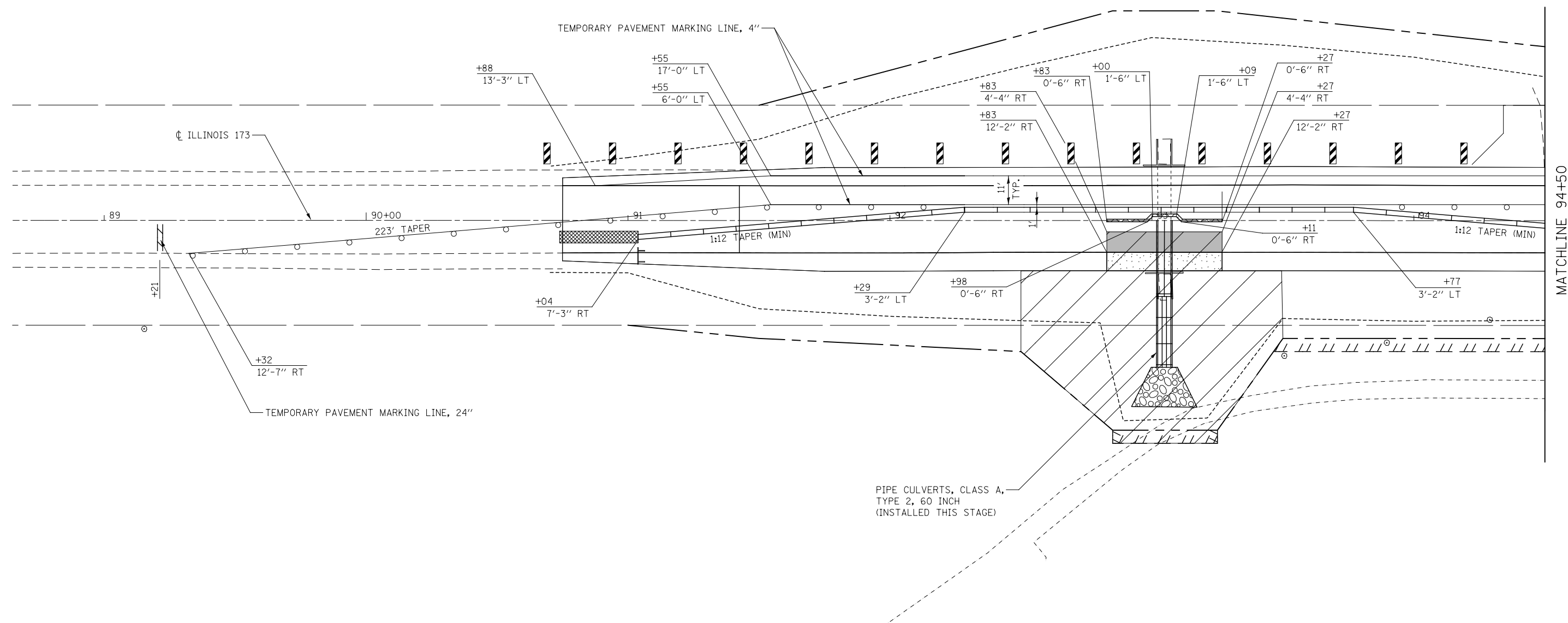
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	33
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

NOTES:

1. IDOT HIGHWAY STANDARD 701321 SHALL BE USED TO SUPPLEMENT THE MAINTENANCE OF TRAFFIC PLANS.
2. BARRIER WALL OFFSETS ARE SHOWN TO THE CONSTRUCTION SIDE OF THE WALL.
3. TRAVERSABLE PIPE GRATE MUST BE INSTALLED ON STAGE 1 CULVERT END PRIOR TO SWITCHING TRAFFIC TO STAGE 2, AND ON STAGE 2 CULVERT END PRIOR TO OPENING TO FINAL TRAFFIC PATTERN.
4. BARRIER WALL SHALL BE PINNED 3 TIMES PER SECTION ON THE TRAFFIC SIDE FROM STATION 92+83 TO STATION 93+27.



LEGEND					
	EXISTING R.O.W.		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, TEST LEVEL 3)		CLASS C PATCHES, TY IV, 12"
	PROPOSED R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)		SHOULDER WIDENING, SEE RDWY PLANS
	TEMPORARY EASEMENT		TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED		VERTICAL PANELS SPACED @ 25' C-C
	EXISTING PAVEMENT		TEMPORARY CONCRETE BARRIER		CHANNELIZATION DRUMS SPACED @ 20' C-C
	EXISTING GUARDRAIL		TEMPORARY SOIL RETENTION SYSTEM		
	GRADING LIMITS (THIS STAGE)				
	TEMPORARY GUARDRAIL INSTALLED IN PRE-STAGE				



MATCHLINE 94+50



DESIGNED	FJW	REVISED	-
DRAWN	NAV	REVISED	-
CHECKED	CMS	REVISED	-
DATE	09-12-2017	REVISED	-

DATE	09-12-2017
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - STAGE 1**

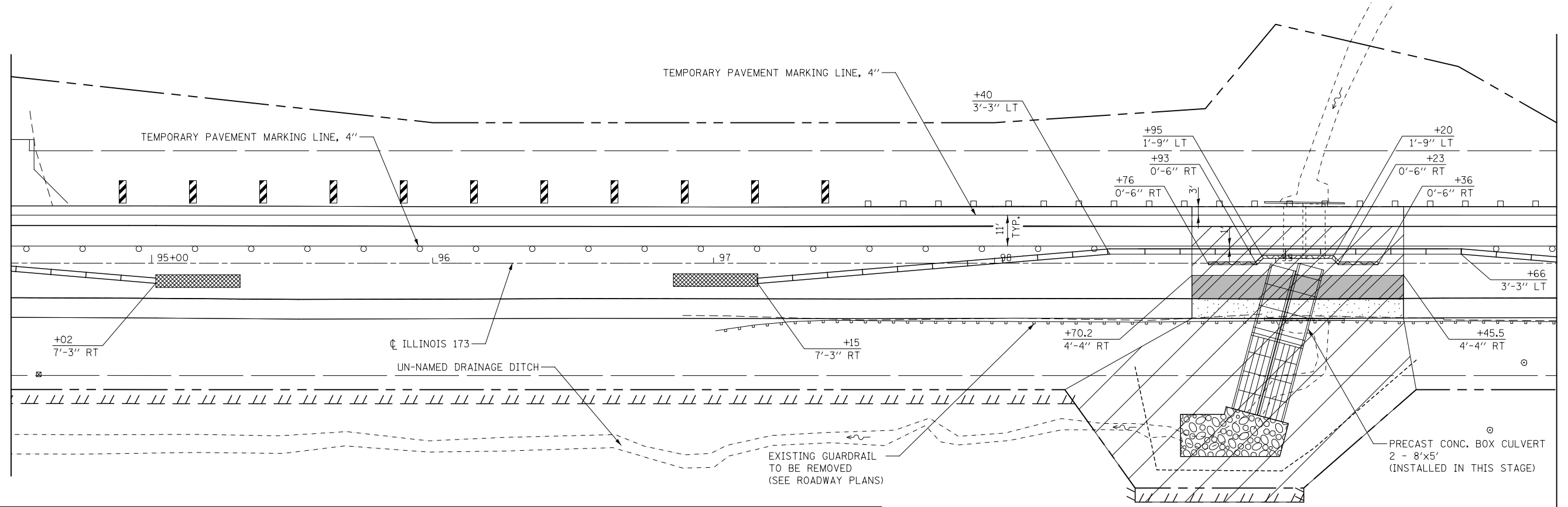
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	34
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

SCALE: AS SHOWN | SHEET NO. 7 OF 10 SHEETS | STA. TO STA.

PLOT DATE = 3/15/2018

MATCHLINE 94+50

MATCHLINE 100+00



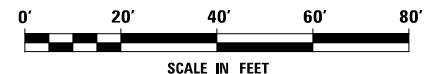
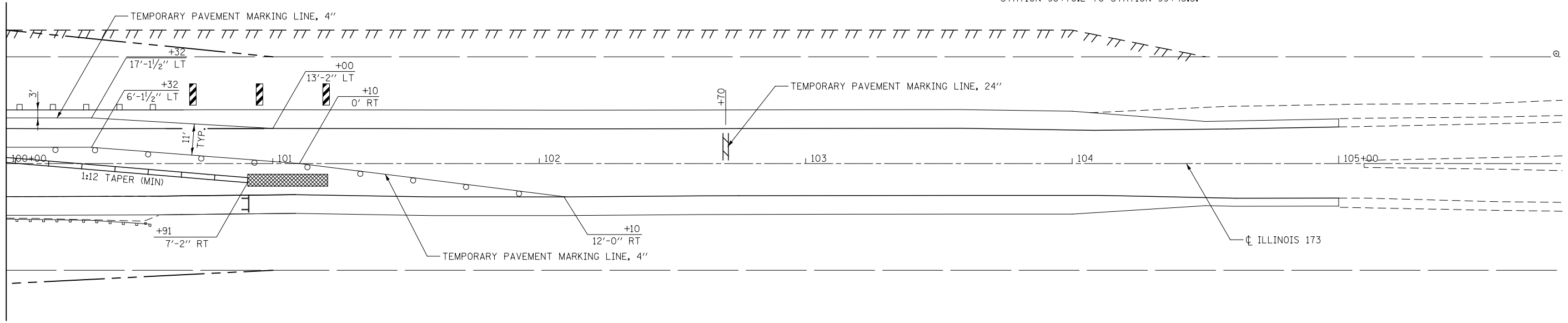
LEGEND			
	EXISTING R.O.W.		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, TEST LEVEL 3)
	PROPOSED R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)
	TEMPORARY EASEMENT		TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
	EXISTING PAVEMENT		TEMPORARY CONCRETE BARRIER
	EXISTING GUARDRAIL		CHANNELIZATION DRUMS SPACED @ 20' C-C
	GRADING LIMITS (THIS STAGE)		TEMPORARY SOIL RETENTION SYSTEM
	TEMPORARY GUARDRAIL INSTALLED IN PRE-STAGE		VERTICAL PANELS SPACED AT 25' C-C

NOTES:

1. IDOT HIGHWAY STANDARD 701321 SHALL BE USED TO SUPPLEMENT THE MAINTENANCE OF TRAFFIC PLANS.
2. BARRIER WALL OFFSETS ARE SHOWN TO THE CONSTRUCTION SIDE OF THE WALL.
3. TRAVERSABLE PIPE GRATE MUST BE INSTALLED ON STAGE 1 CULVERT END PRIOR TO SWITCHING TRAFFIC TO STAGE 2, AND ON STAGE 2 CULVERT END PRIOR TO OPENING TO FINAL TRAFFIC PATTERN.
4. BARRIER WALL SHALL BE PINNED 3 TIMES PER SECTION ON THE TRAFFIC SIDE FROM STATION 98+70.2 TO STATION 99+45.5.



MATCHLINE 100+00



DESIGNED <i>FJW</i>	REVISED -
DRAWN <i>NAV</i>	REVISED -
CHECKED <i>CMS</i>	REVISED -
DATE <i>09-12-2017</i>	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - STAGE 1**

SCALE: AS SHOWN | SHEET NO. 8 OF 10 SHEETS | STA. TO STA.

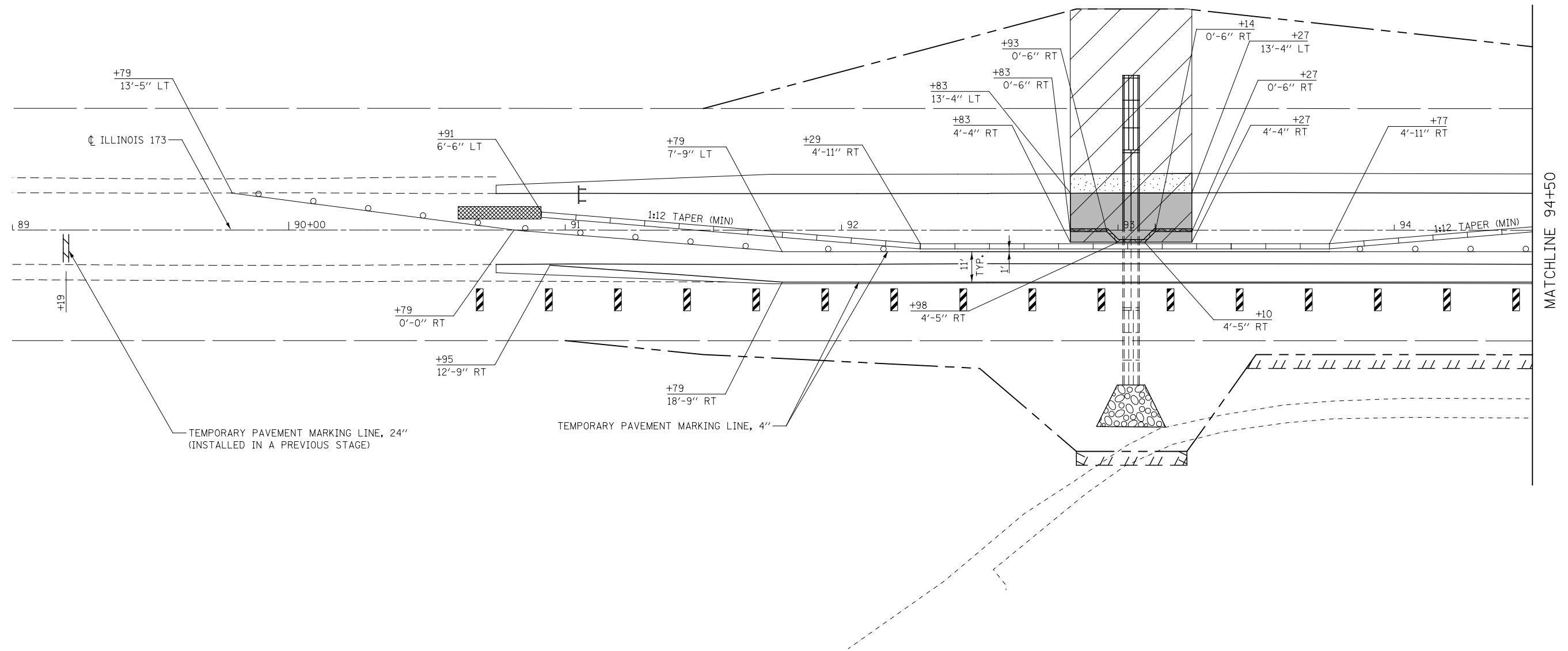
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	35
CONTRACT NO. 64H07				

ILLINOIS FED. AID PROJECT

NOTES:

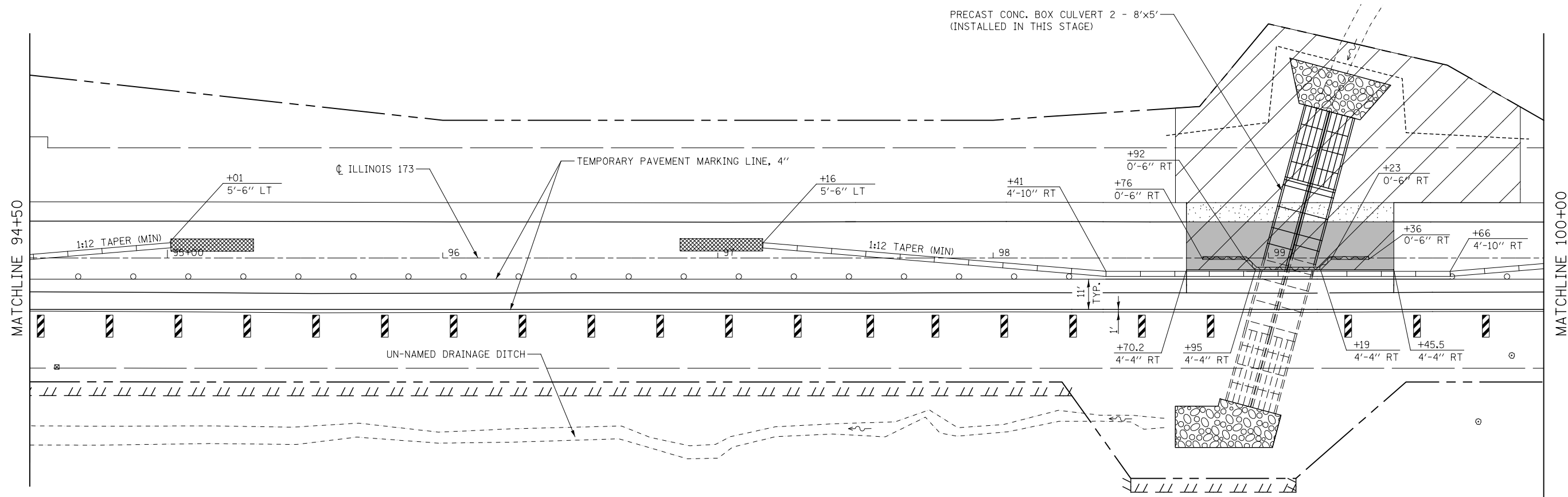
1. IDOT HIGHWAY STANDARD 701321 SHALL BE USED TO SUPPLEMENT THE MAINTENANCE OF TRAFFIC PLANS.
2. BARRIER WALL OFFSETS ARE SHOWN TO THE CONSTRUCTION SIDE OF THE WALL.
3. TRAVERSABLE PIPE GRATE MUST BE INSTALLED ON STAGE 1 CULVERT END PRIOR TO SWITCHING TRAFFIC TO STAGE 2, AND ON STAGE 2 CULVERT END PRIOR TO OPENING TO FINAL TRAFFIC PATTERN.
4. BARRIER WALL SHALL BE PINNED 3 TIMES PER SECTION ON THE TRAFFIC SIDE FROM STATION 92+83 TO STATION 93+27.

LEGEND					
	EXISTING R.O.W.		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, TEST LEVEL 3)		VERTICAL PANELS SPACED AT 25' C-C
	PROPOSED R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)		CLASS C PATCHES, TY IV, 12"
	TEMPORARY EASEMENT		TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED		SHOULDER WIDENING, SEE RDWY PLANS
	EXISTING PAVEMENT		RELOCATE TEMP. CONC. BARRIER		
	EXISTING GUARDRAIL		CHANNELIZATION DRUMS SPACED @ 20' C-C		
	GRADING LIMITS (THIS STAGE)		TEMPORARY SOIL RETENTION SYSTEM		
	TEMPORARY GUARDRAIL				
	INSTALLED IN PRE-STAGE				



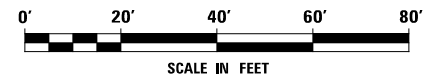
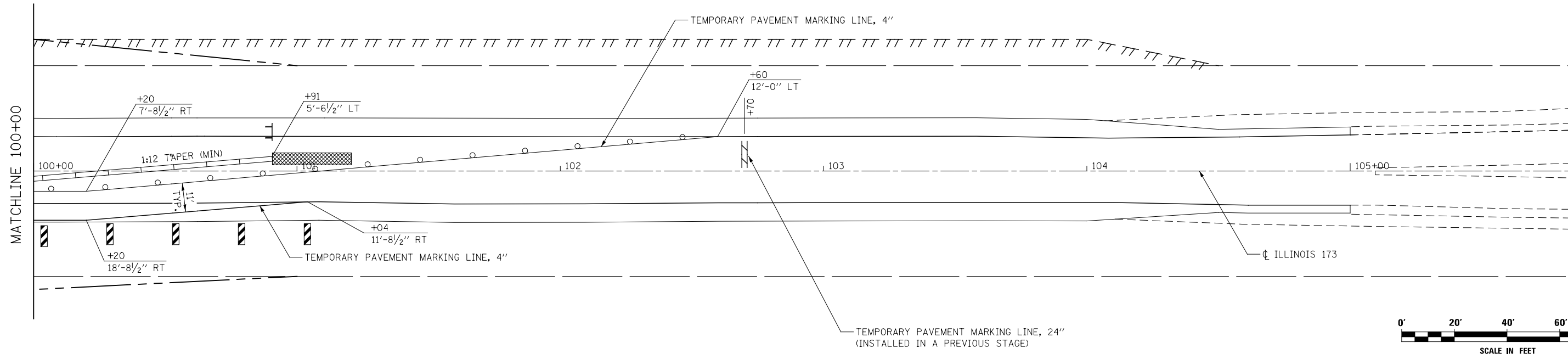
MATCHLINE 94+50

 Engineers & Architects	DESIGNED <i>FJW</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC SN 004-1031 SN 004-1032 - STAGE 2		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN <i>NAV</i>	REVISED -		SCALE: AS SHOWN	SHEET NO. 9 OF 10 SHEETS	STA. TO STA.	303	129T	BOONE	66
	CHECKED <i>CMS</i>	REVISED -				CONTRACT NO. 64H07				
PLOT DATE = 3/15/2018	DATE <i>09-12-2017</i>	REVISED -				ILLINOIS FED. AID PROJECT				



LEGEND					
	EXISTING R.O.W.		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, TEST LEVEL 3)		VERTICAL PANELS SPACED AT 25' C-C
	PROPOSED R.O.W.		WORKZONE CONSTRUCTION (THIS STAGE)		CLASS C PATCHES, TY IV, 12"
	TEMPORARY EASEMENT		TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED		SHOULDER WIDENING, SEE RDWY PLANS
	EXISTING PAVEMENT		RELOCATE TEMP. CONC. BARRIER		
	EXISTING GUARDRAIL		CHANNELIZATION DRUMS SPACED @ 20' C-C		
	GRADING LIMITS (THIS STAGE)		TEMPORARY SOIL RETENTION SYSTEM		
	TEMPORARY GUARDRAIL INSTALLED IN PRE-STAGE				

- NOTES:**
- IDOT HIGHWAY STANDARD 701321 SHALL BE USED TO SUPPLEMENT THE MAINTENANCE OF TRAFFIC PLANS.
 - BARRIER WALL OFFSETS ARE SHOWN TO THE CONSTRUCTION SIDE OF THE WALL.
 - TRAVERSABLE PIPE GRATE MUST BE INSTALLED ON STAGE 1 CULVERT END PRIOR TO SWITCHING TRAFFIC TO STAGE 2, AND ON STAGE 2 CULVERT END PRIOR TO OPENING TO FINAL TRAFFIC PATTERN.
 - BARRIER WALL SHALL BE PINNED 3 TIMES PER SECTION ON THE TRAFFIC SIDE FROM STATION 98+70.2 TO STATION 99+45.5.



KNIGHT
Engineers & Architects

DESIGNED <i>FJW</i>	REVISED -
DRAWN <i>NAV</i>	REVISED -
CHECKED <i>CMS</i>	REVISED -
DATE <i>09-12-2017</i>	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
SN 004-1031 & SN 004-1032 - STAGE 2**

SCALE: AS SHOWN | SHEET NO. 10 OF 10 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	37
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

General Notes:

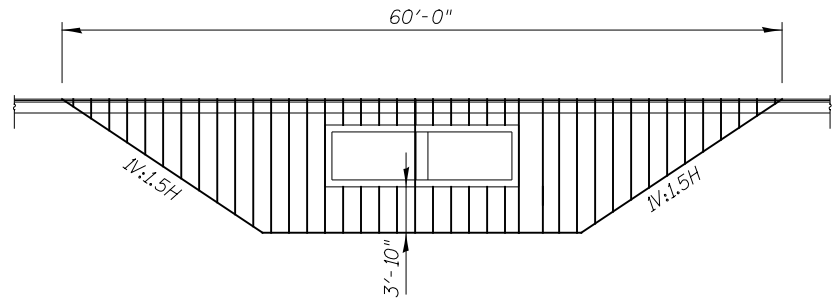
- Exposed edges shall have a $\frac{3}{4}$ " chamfer.
- Precast concrete box culvert slab & wall thickness taken from ASTM material specifications. If fabricator chooses to alter dimensions, it must be approved by the Engineer, and the calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer.
- Box culvert end sections are to be precast. Contractor has the option of using cast-in-place end sections, but the design of the reinforcement is the Contractor's responsibility and shall be sealed by a Licensed Structural Engineer. If the Contractor elects to use cast-in-place end sections, no adjustments in costs of the end sections will be allowed.
- The precast concrete box culvert shall conform to the requirements of ASTM C 1577 (Design fill height between 2' and 3')
- 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.
- Structure Excavation and grading around ends of the culvert shall not be paid for separately, but shall be included in the contract unit price for "Precast Concrete Box Culverts 8'x5'".

TOTAL BILL OF MATERIALS (2 - 8'x5' PRECAST BOX CULVERT)

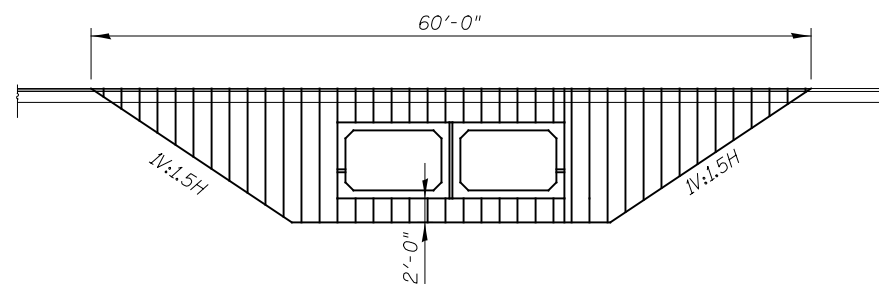
ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq Yd	112
Filter Fabric	Sq Yd	112
Removal Of Existing Structures No. 2	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	146
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	4
Precast Concrete Box Culverts 8'x5'	Foot	102
Traversable Pipe Grate	Foot	380
Rock Fill	Ton	249
Temporary Soil Retention System	Sq Ft	500
Membrane Waterproofing System For Buried Structures	Sq Yd	128

STATION 99+08.00
 BUILT 20 BY
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. RTE. 303 SEC. 129T
 LOADING HL-93
 STRUCTURE NO. 004-1032

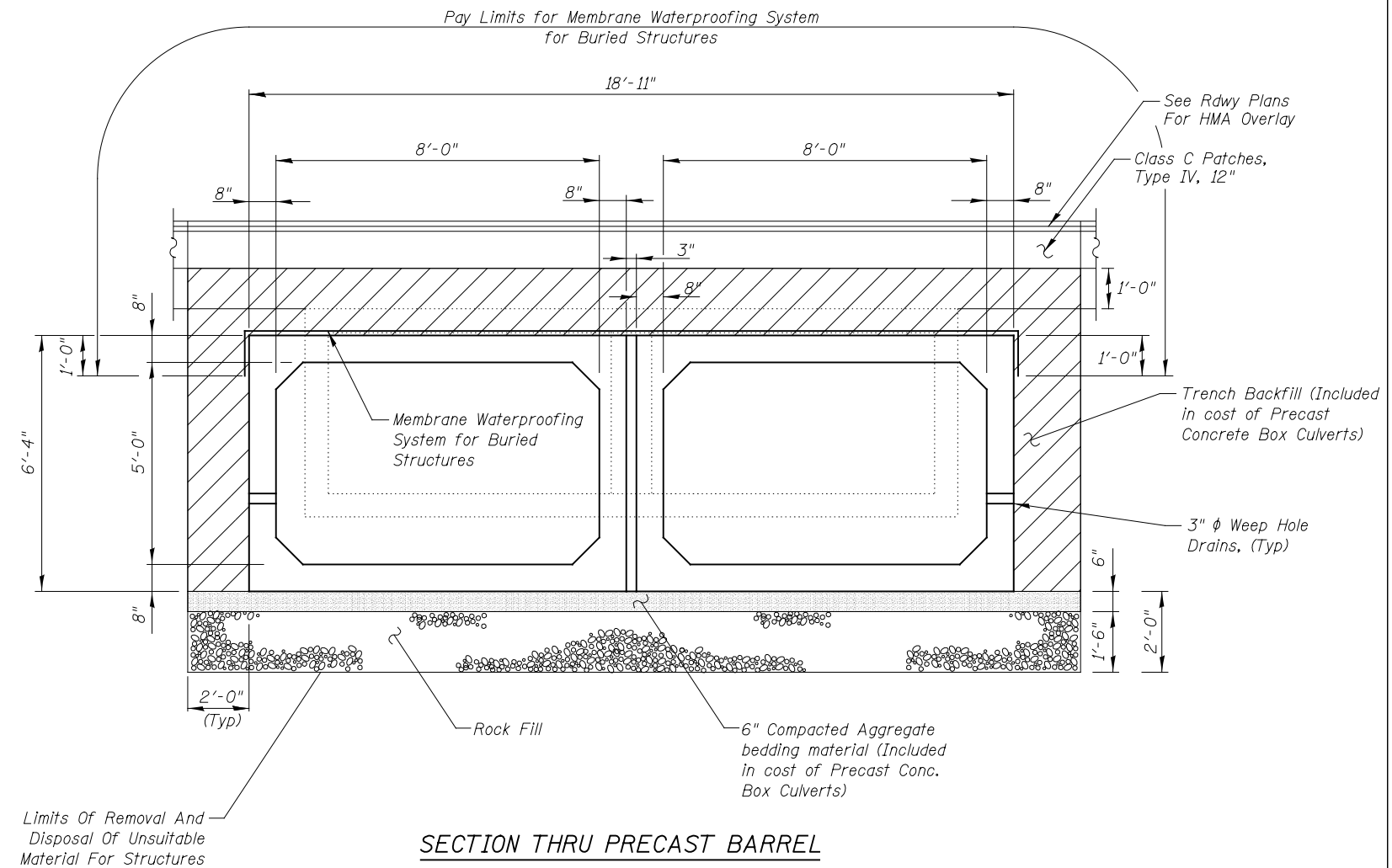
NAME PLATE
 See Std. 515001



TEMPORARY SOIL RETENTION LIMITS
 Stage 1 (Refer to MOT Plans for Plan View)



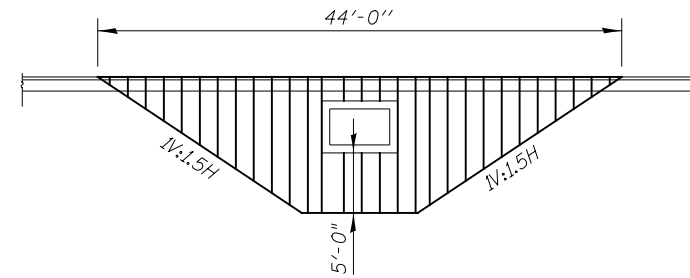
TEMPORARY SOIL RETENTION LIMITS
 Stage 2 (Refer to MOT Plans for Plan View)



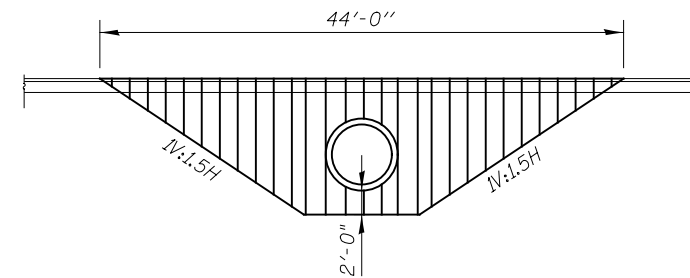
SECTION THRU PRECAST BARREL

TOTAL BILL OF MATERIALS (PIPE CULVERT)

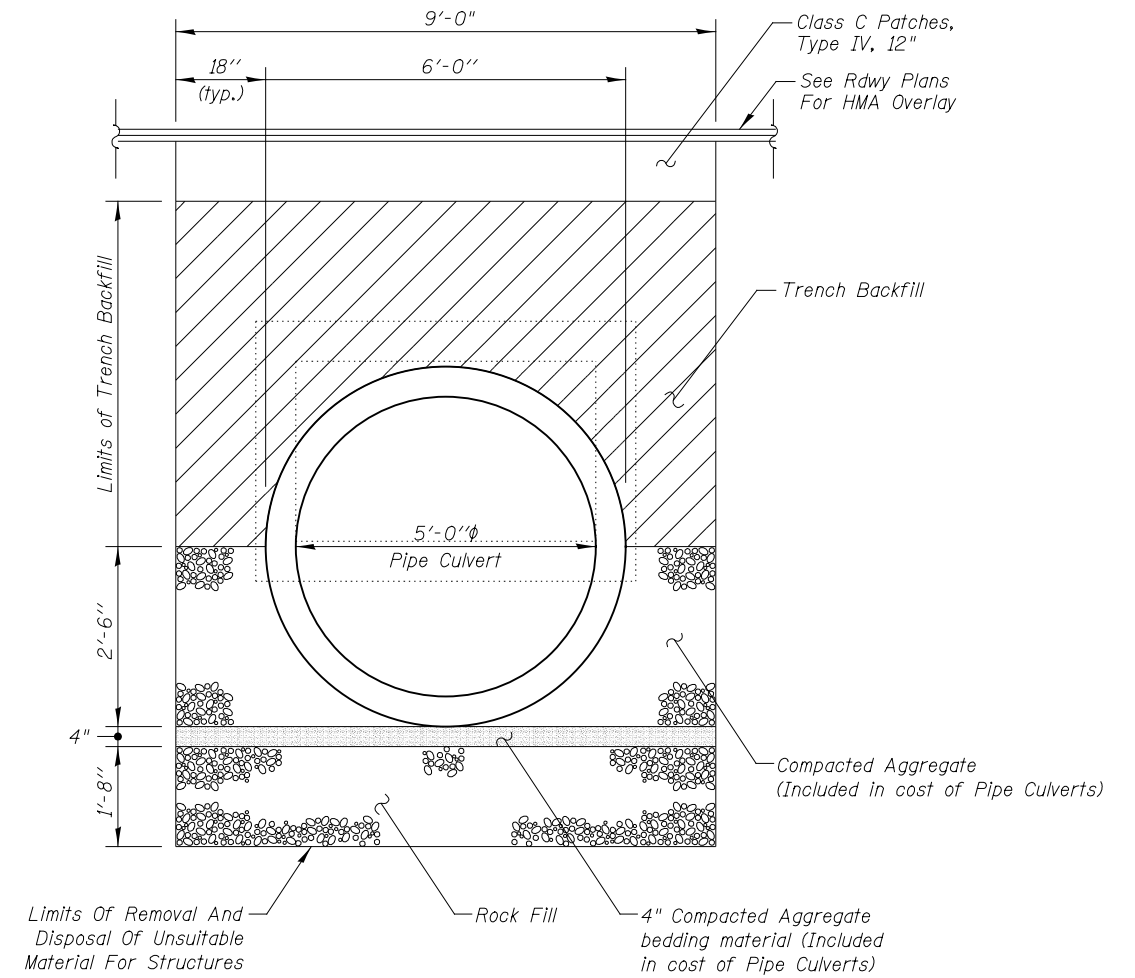
ITEM	UNIT	QUANTITY
Temporary Soil Retention System	Sq Ft	281



TEMPORARY SOIL RETENTION LIMITS
Stage 1 (Refer to MOT Plans for Plan View)



TEMPORARY SOIL RETENTION LIMITS
Stage 2 (Refer to MOT Plans for Plan View)



SECTION THRU PIPE CULVERT



SOIL BORING LOG

Date 2/2/12

ROUTE FAP 303 DESCRIPTION 004-1021 P92-072-11 IL 173 culvert, .2 m. W. of Caledonia Road LOGGED BY W. Garza
 SECTION 129T LOCATION Caledonia Twp. - SE 17, SEC. , TWP. 45N, RNG. 3E
 COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 004-1021 Latitude Longitude Northing Easting
 Station
 BORING NO. B-1
 Station 20' E
 Offset 15.00ft N CL
 Ground Surface Elev. 99.40 ft

DEPTH (ft)	DESCRIPTION	U (ft)	M (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
96.90	STIFF gray SILTY CLAY LOAM	1.3 P	9.0						
95.40	VERY STIFF dark gray SILTY CLAY LOAM	2.5 P	25.0						
92.90	STIFF dark gray SILTY CLAY LOAM	1.3 P	29.0						
90.40	SOFT light gray SILTY LOAM	0.3 B	30.0						
87.90	STIFF light gray SILTY CLAY with SAND lens	1.1 B	17.0						
85.40	STIFF tan SILT with CLAY lens	1.6 B	22.0						
82.40	STIFF tan SANDY LOAM	1.3 B	11.0						
80.40	VERY DENSE tan well-cemented 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)



SOIL BORING LOG

Date 2/2/12

ROUTE FAP 303 DESCRIPTION 004-1021 P92-072-11 IL 173 culvert, .2 m. W. of Caledonia Road LOGGED BY W. Garza
 SECTION 129T LOCATION Caledonia Twp. - SE 17, SEC. , TWP. 45N, RNG. 3E
 COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 004-1021 Latitude Longitude Northing Easting
 Station
 BORING NO. B-2
 Station 18' W
 Offset 15.00ft S CL
 Ground Surface Elev. 99.50 ft

DEPTH (ft)	DESCRIPTION	U (ft)	M (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
78.00	MEDIUM dark gray SILTY CLAY LOAM	0.8 P	17.0						
97.00	STIFF dark gray SILTY CLAY LOAM	1.1 P	28.0						
93.00	MEDIUM dark gray SILTY CLAY LOAM with ORGANICS	0.8 P	44.0						
90.00	SOFT light gray SILTY CLAY	0.3 B	32.0						
87.50	LOOSE light gray dirty SANDY GRAVEL								
85.50	STIFF tan SILTY CLAY	1.2 B	18.0						
82.50	VERY STIFF tan SILT	2.7 S	18.0						
80.50	VERY DENSE tan well-cemented 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)



SOIL BORING LOG

ROUTE FAP 303 DESCRIPTION 004-1020 P92-072-11 IL 173 culvert, .4 m. W. of Caledonia Road LOGGED BY W. Garza
 SECTION 129T LOCATION Caledonia Twp. - NE 20. SEC. , TWP. 45N. RNG. 3E
 COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 004-1020 Latitude _____ Northing _____
 Station _____ Longitude _____ Easting _____

BORING NO. <u>B-1</u> Station <u>10' E</u> Offset <u>15.00ft S CL</u> Ground Surface Elev. <u>99.50</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev.		Groundwater Elev.:	
					ft	ft	ft	ft
					Stream Bed Elev.	<u>95.00</u>		
					First Encounter	<u>87.0</u>	ft	▼
					Upon Completion	<u>82.0</u>	ft	▼
					After _____ Hrs.		ft	
STIFF gray SILTY CLAY			1.0 P	24.0				
STIFF gray SILTY CLAY	97.00	2						
		3	1.0 P	26.0				
	95.50	3						
		-5						
STIFF dark gray SILTY CLAY LOAM		3						
		4	1.5 P	35.0				
	93.00	6						
STIFF light gray SANDY LOAM		2						
		3						
	90.50	4	1.2 P	19.0				
		-10						
VERY SOFT light gray SILTY LOAM		4						
		3	0.2 P	19.0				
	88.00	4						
MEDIUM light gray SILTY CLAY with SAND lens		3						
		6	0.9 B	21.0				
	85.50	11						
		-15						
VERY STIFF gray SILTY LOAM with SAND lens		4						
		9	2.9 S	15.0				
	83.00	17						
		34						
VERY DENSE gray well-cemented SAND with medium GRAVEL		44		7.0				
	80.50	51						
End of Boring		-20						

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



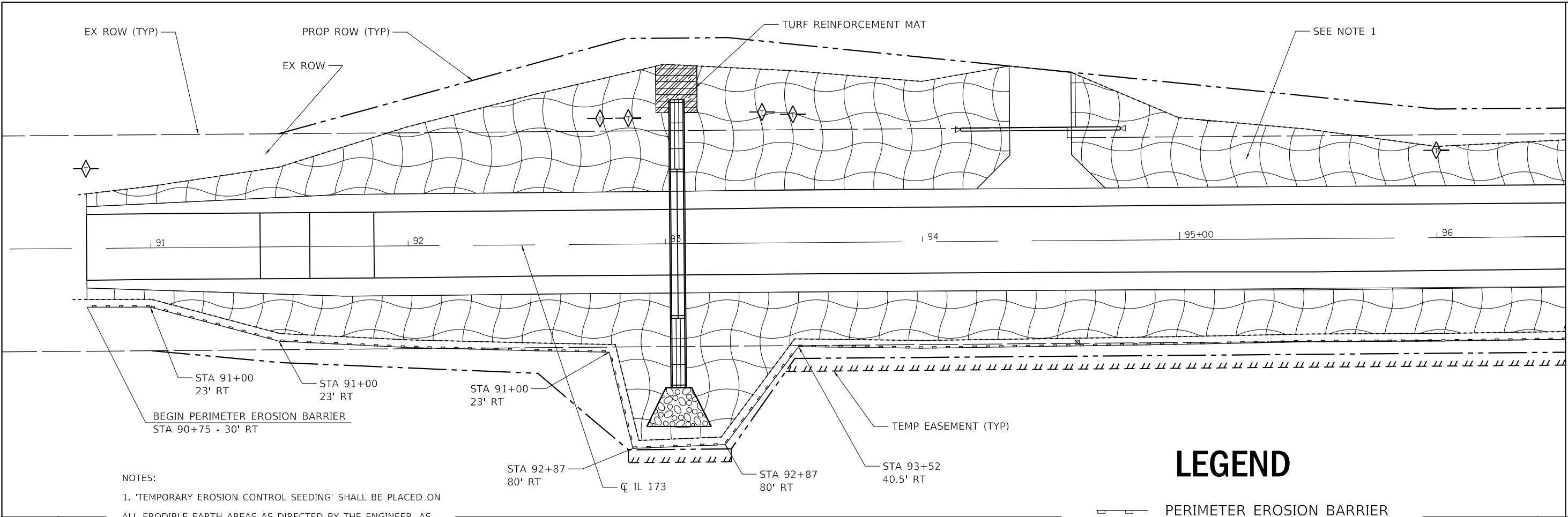
SOIL BORING LOG

ROUTE FAP 303 DESCRIPTION 004-1020 P92-072-11 IL 173 culvert, .4 m. W. of Caledonia Road LOGGED BY W. Garza
 SECTION 129T LOCATION Caledonia Twp. - NE 20. SEC. , TWP. 45N. RNG. 3E
 COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 004-1020 Latitude _____ Northing _____
 Station _____ Longitude _____ Easting _____

BORING NO. <u>B-2</u> Station <u>11' W</u> Offset <u>15.00ft N CL</u> Ground Surface Elev. <u>99.50</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev.		Groundwater Elev.:	
					ft	ft	ft	ft
					Stream Bed Elev.	<u>95.00</u>		
					First Encounter	<u>82.0</u>	ft	▼
					Upon Completion	<u>83.0</u>	ft	▼
					After _____ Hrs.		ft	
STIFF brown SILTY CLAY LOAM			1.1 P	19.0				
VERY STIFF brown SILTY CLAY LOAM	97.00	3						
		4	2.9 B	20.0				
	95.50	5						
		-5						
STIFF dark gray SILTY CLAY LOAM		3						
		3	1.6 P	35.0				
	93.00	4						
SOFT light gray SILTY CLAY with SAND lens		1						
		2	0.3 B	32.0				
	90.00	3						
		-10						
LOOSE light gray SAND with medium GRAVEL		4						
		5						
	87.50	5						
STIFF tan SILT with fine SAND lens		5						
		7	1.0 P	18.0				
	85.50	13						
		-15						
STIFF gray/tan SANDY LOAM with SAND GRAVEL lens		8						
		9	1.6 B	13.0				
	83.00	17						
		33						
VERY DENSE gray well-cemented SAND with medium GRAVEL		42		6.0				
	80.50	52						
End of Boring		-20						

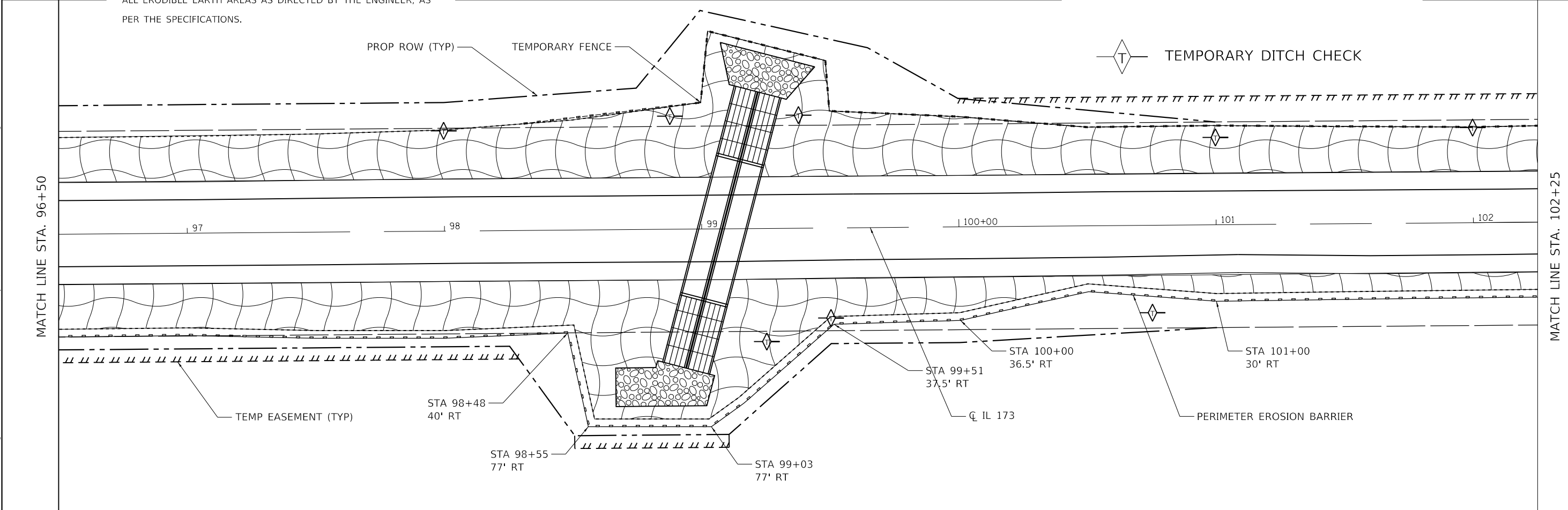
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



NOTES:
 1. 'TEMPORARY EROSION CONTROL SEEDING' SHALL BE PLACED ON ALL ERODIBLE EARTH AREAS AS DIRECTED BY THE ENGINEER, AS PER THE SPECIFICATIONS.

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

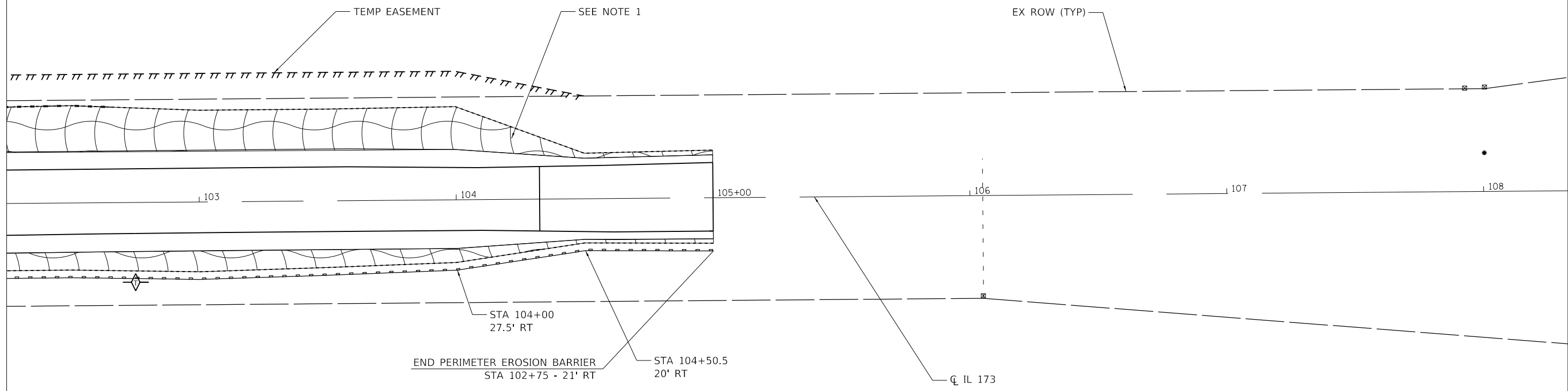
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	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = Mar-19-2018 09:17:46 AM	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	42
CONTRACT NO. 64H07				
ILLINOIS FED. AID PROJECT				

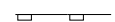
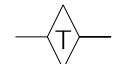
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MATCH LINE STA. 102+25



NOTES:
 1. 'TEMPORARY EROSION CONTROL SEEDING' SHALL BE PLACED ON ALL ERODIBLE EARTH AREAS AS DIRECTED BY THE ENGINEER, AS PER THE SPECIFICATIONS.

LEGEND

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK

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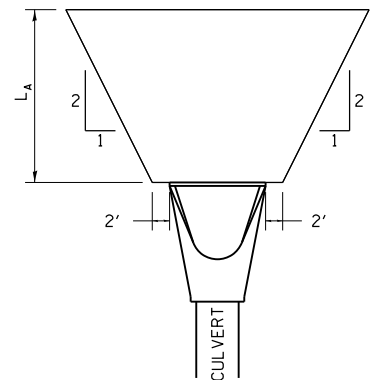
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

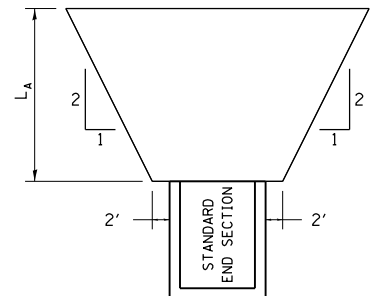
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	43
CONTRACT NO. 64H07				
		ILLINOIS	FED. AID PROJECT	

RIPRAP AT END SECTIONS



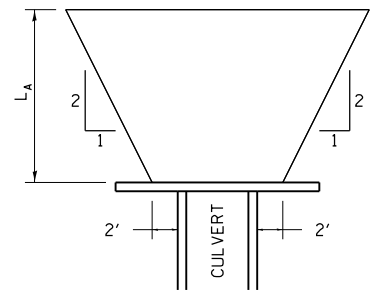
FLARED END SECTION

L_A = APRON LENGTH (ft)
 IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).
 STANDARD END SECTION:
 542001 (PIPE), 542011 (ELLIPTICAL)
 DISTRICT STANDARD 10.1 (BOX).

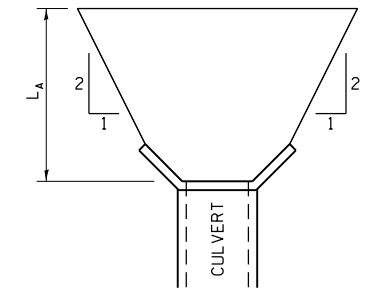


STANDARD END SECTION

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



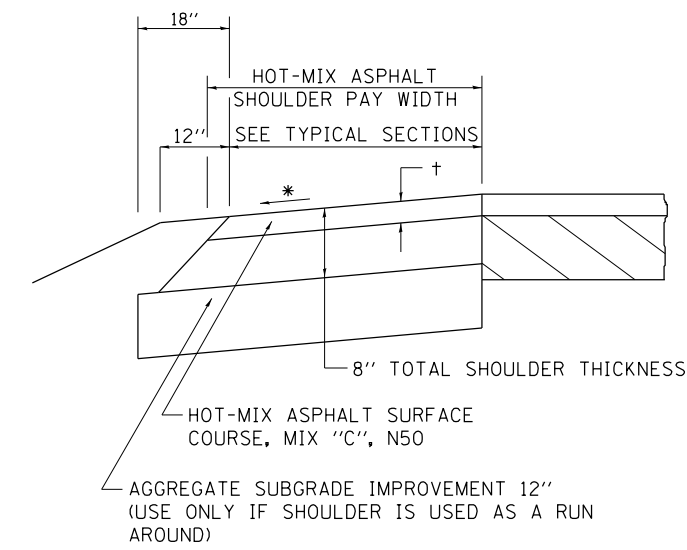
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

RIPRAP AT END SECTIONS 19.4

HOT-MIX ASPHALT SHOULDER



REVISED - 1-05-16
 REVISED - 3-13-13

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

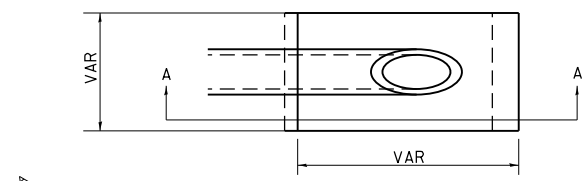
USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

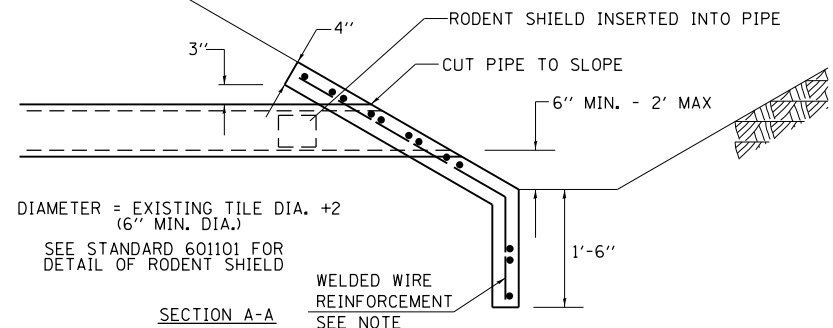
HOT-MIX ASPHALT SHOULDER 22.4

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS



NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WELDED WIRE REINFORCEMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH OF THE SIZE SPECIFIED. WELDED WIRE REINFORCEMENT TO WEIGH NOT LESS THAN 58 lbs/100 sq. ft.



DIAMETER = EXISTING TILE DIA. +2 (6" MIN. DIA.)
 SEE STANDARD 601101 FOR DETAIL OF RODENT SHIELD

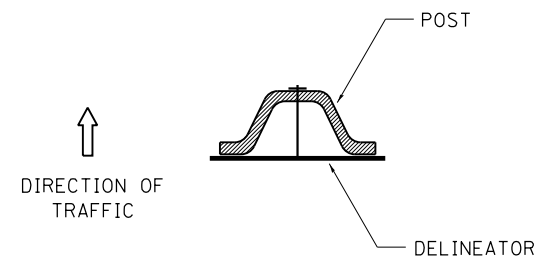
SECTION A-A

WELDED WIRE REINFORCEMENT
 SEE NOTE

REVISED - 1-05-16
 REVISED - 10-09-12

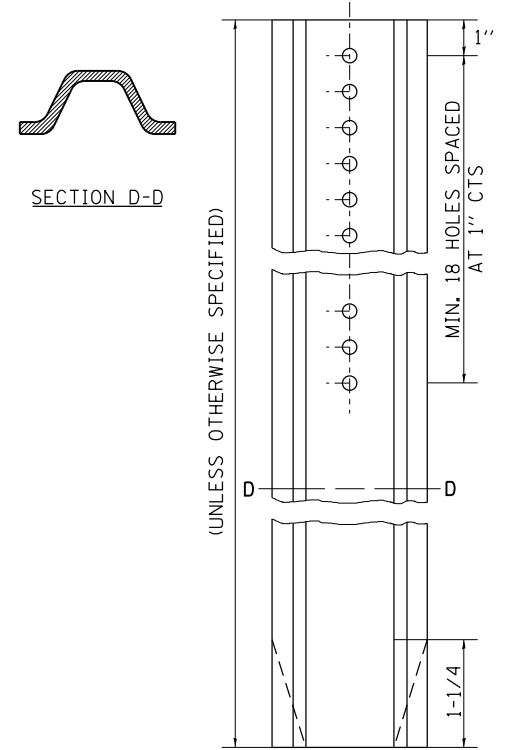
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 28.4

DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



REVISED - 10-03-11
 REVISED -
 REVISED -
 REVISED -

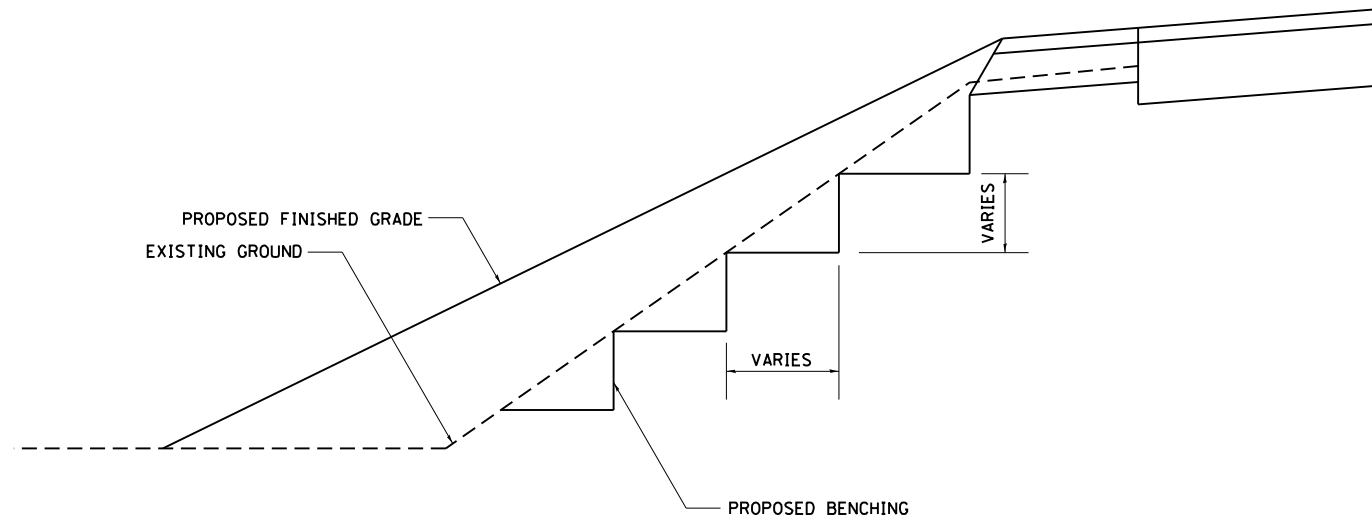
REGION 2 / DISTRICT 2 STANDARDS

SCALE: 100.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	44
CONTRACT NO. 64H07				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DELINEATOR AND POST ORIENTATION

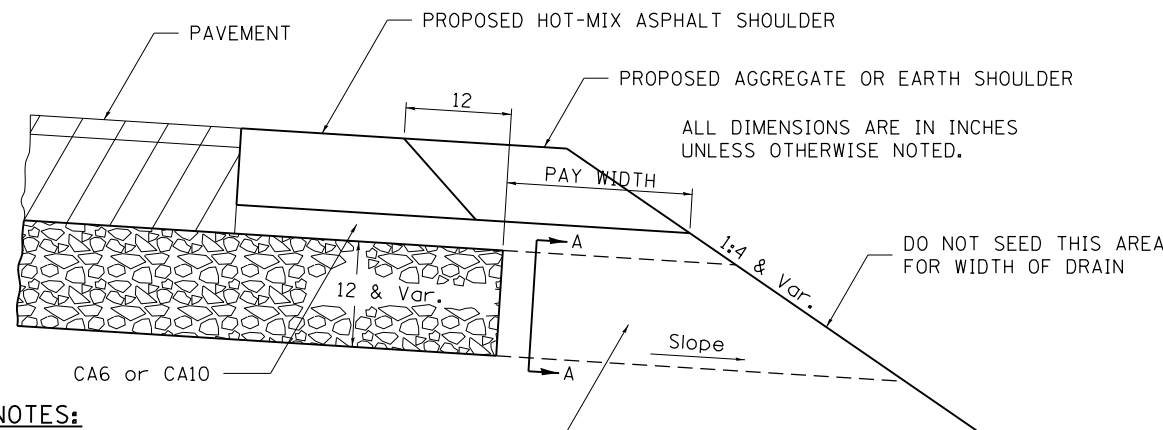
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

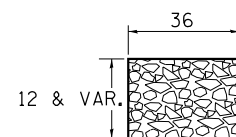
DRAIN FOR AGGREGATE BASE COURSE



NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per CUBIC YARD for FRENCH DRAINS. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in CU YD, the width being 36 by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per SQ. YD. for AGGREGATE SUBGRADE IMPROVEMENT of the thickness specified. The fabric to be used shall conform to the Geotechnical Fabric For French Drains

ROCK OUTLET AT ALL LOW POINTS TO BE 36 WIDE AND EXTEND TO FORESLOPE



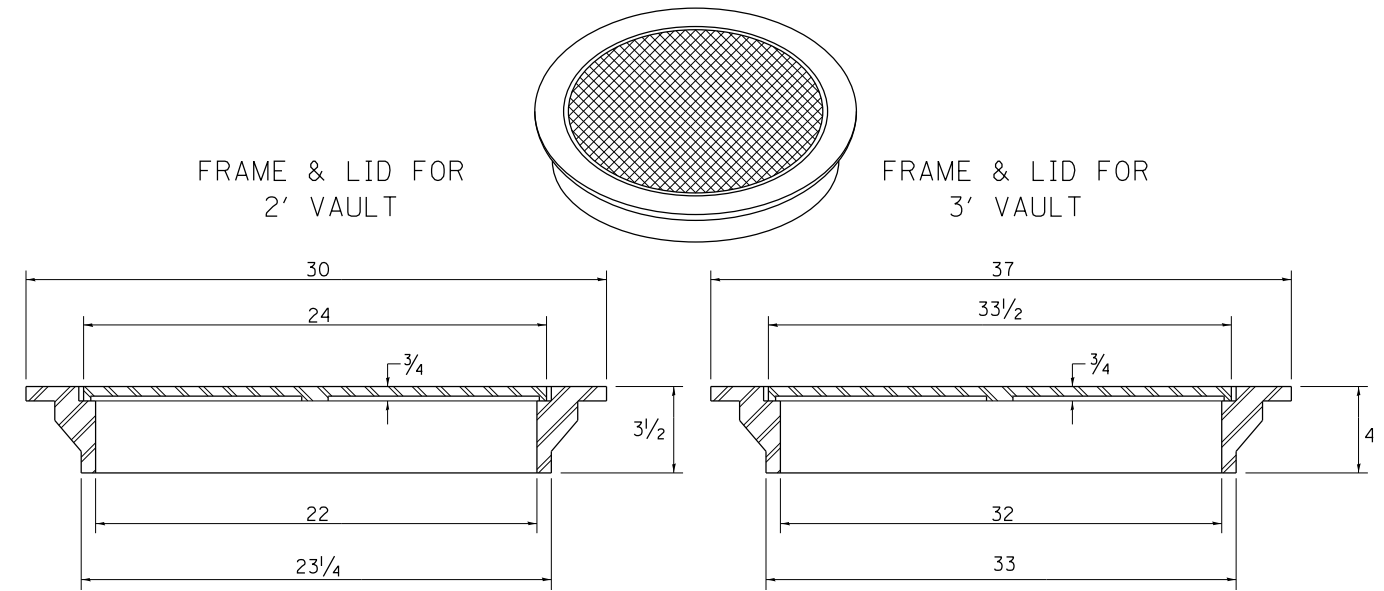
SECTION A-A

NOTE: Slope same as shoulder with 2% min.

REVISED - 8-27-13
REVISED - 10-09-12

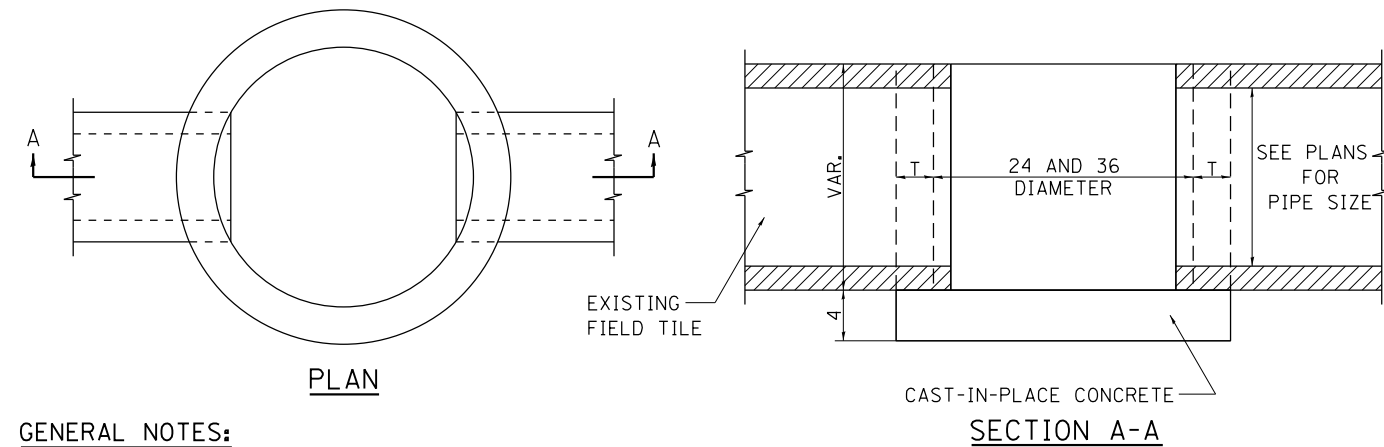
DRAIN FOR AGGREGATE BASE COURSE 96.4

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.



TOTAL WEIGHT: 146 LBS.

TOTAL WEIGHT: 280 LBS.



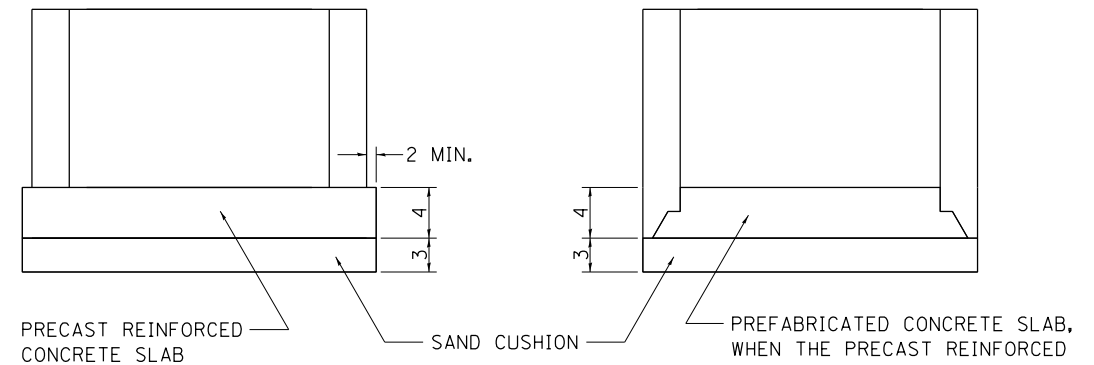
GENERAL NOTES:

THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.
THE FRAME AND LID SHALL BE INSTALLED FLUSH WITH THE GROUND.

FRAME AND LIDS:

R-6040 OR EQUIVALENT (2')
R-6080 OR EQUIVALENT (3')

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ALTERNATE METHODS

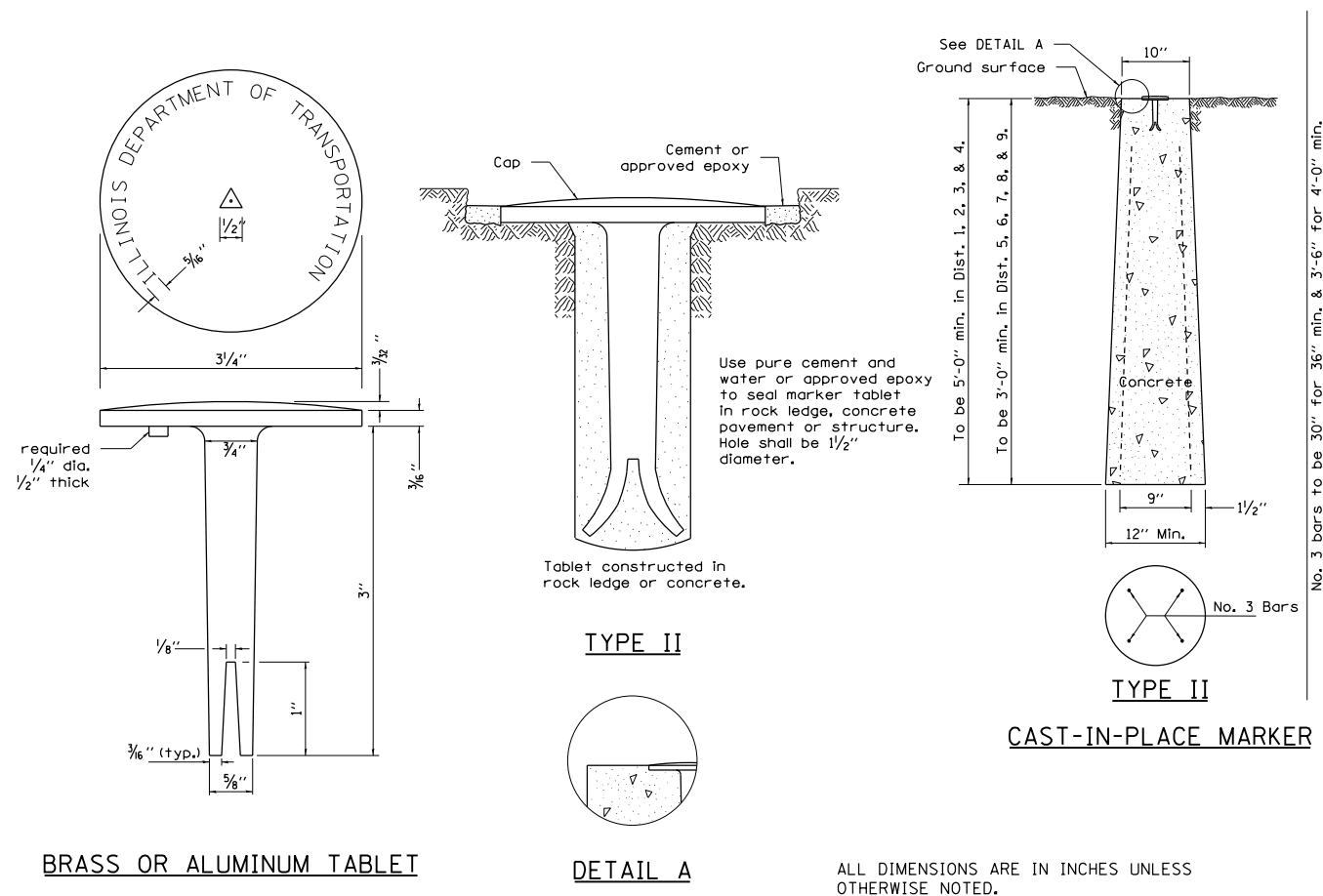
REVISED - 1-03-18
REVISED - 6-27-14
REVISED - 10-14-11
REVISED -

REGION 2 / DISTRICT 2 STANDARDS

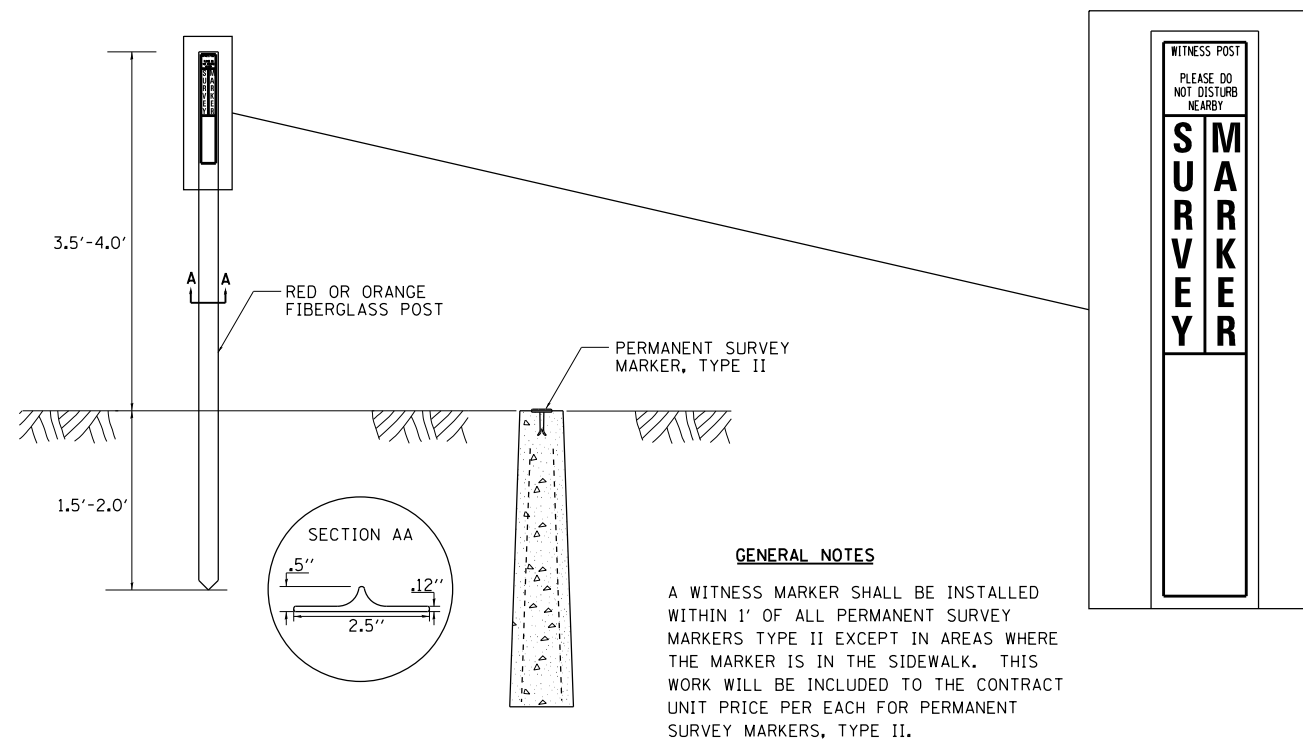
SCALE: 100.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	45
CONTRACT NO. 64H07				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY MARKERS, TYPE II



WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



REVISED - 6-27-14
 REVISED - 10-14-11

REVISED -	REGION 2 / DISTRICT 2 STANDARDS SCALE: 100.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		303	129T	BOONE	66	46
REVISED -		CONTRACT NO. 64H07				
REVISED -		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
REVISED -						

BOX CULVERT END SECTIONS

		As1m REINFORCEMENT (in. ² /ft)										
Ts (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
	4	0.19	0.17									
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.59	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65		
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75	

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

Notes:

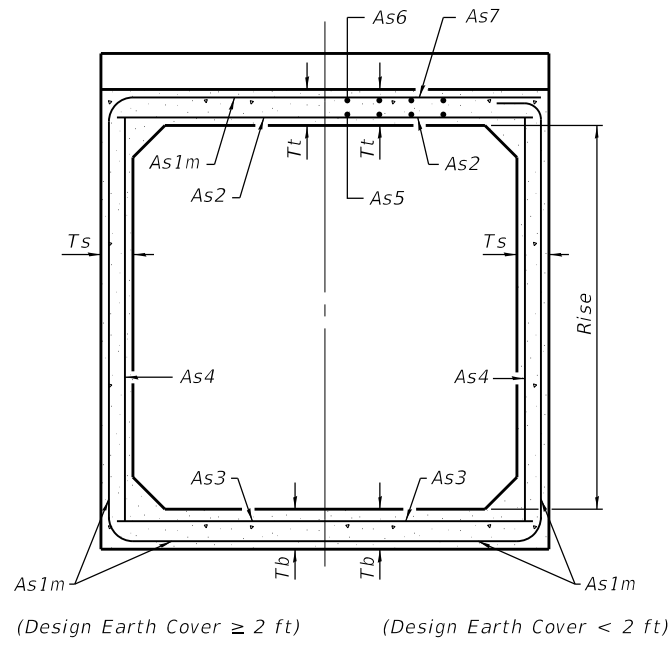
Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for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

The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

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

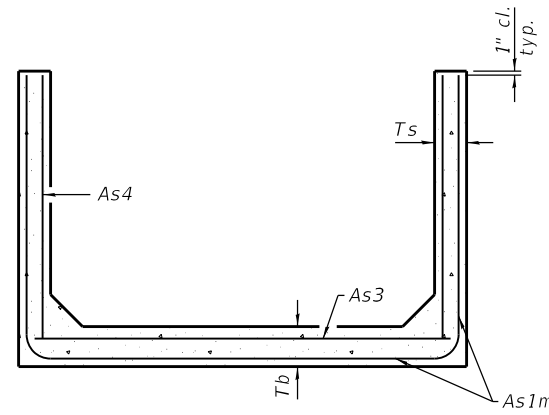
l₁ DIMENSION

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

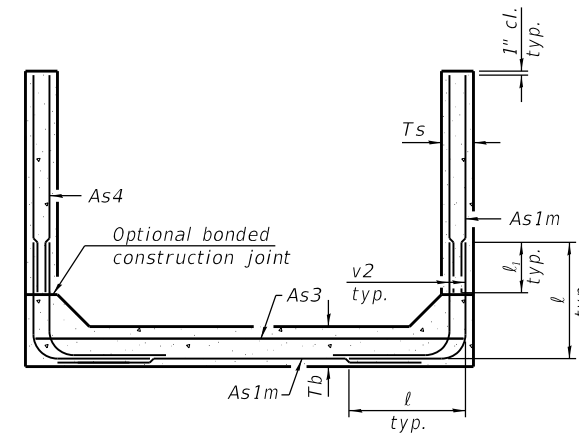


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

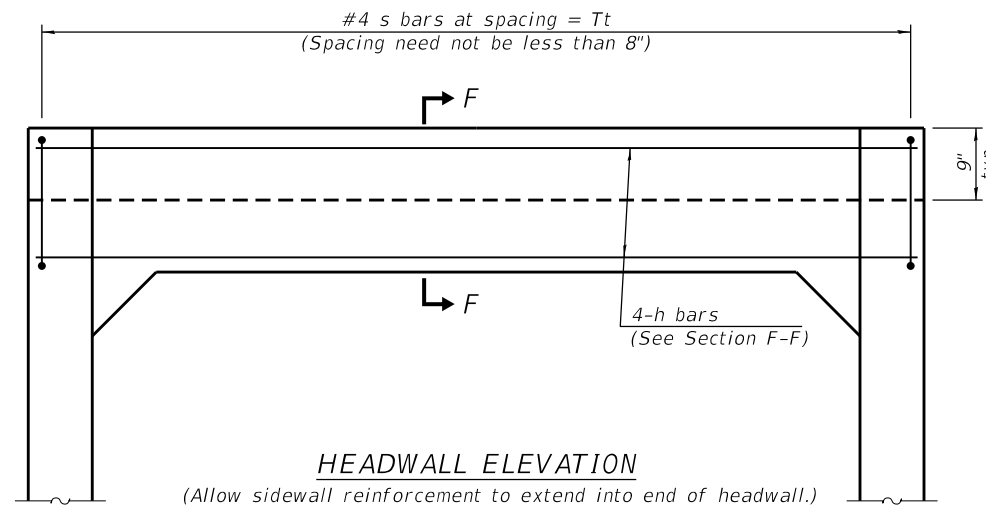
SECTION C-C



SECTION D-D

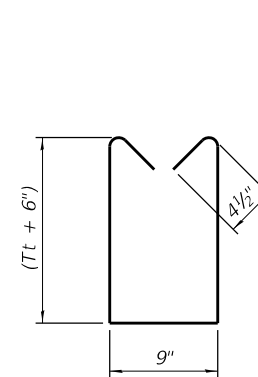


ALTERNATE SECTION D-D

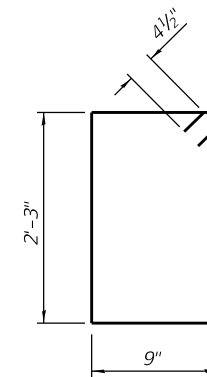


HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)



BAR s



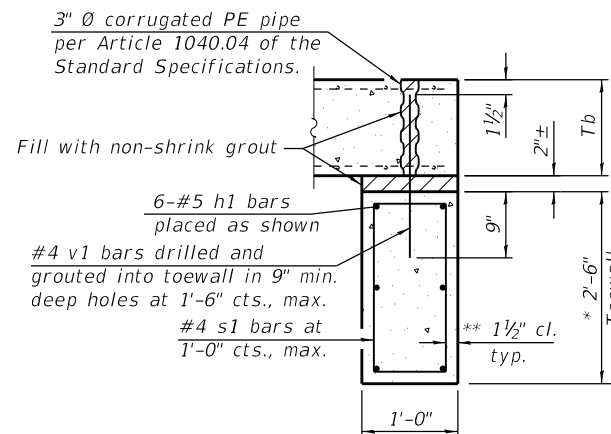
BAR s1

TOEWALL CONSTRUCTION SEQUENCE

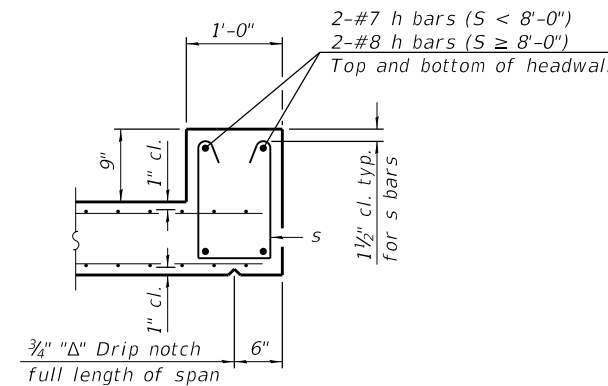
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

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

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



SECTION E-E



SECTION F-F

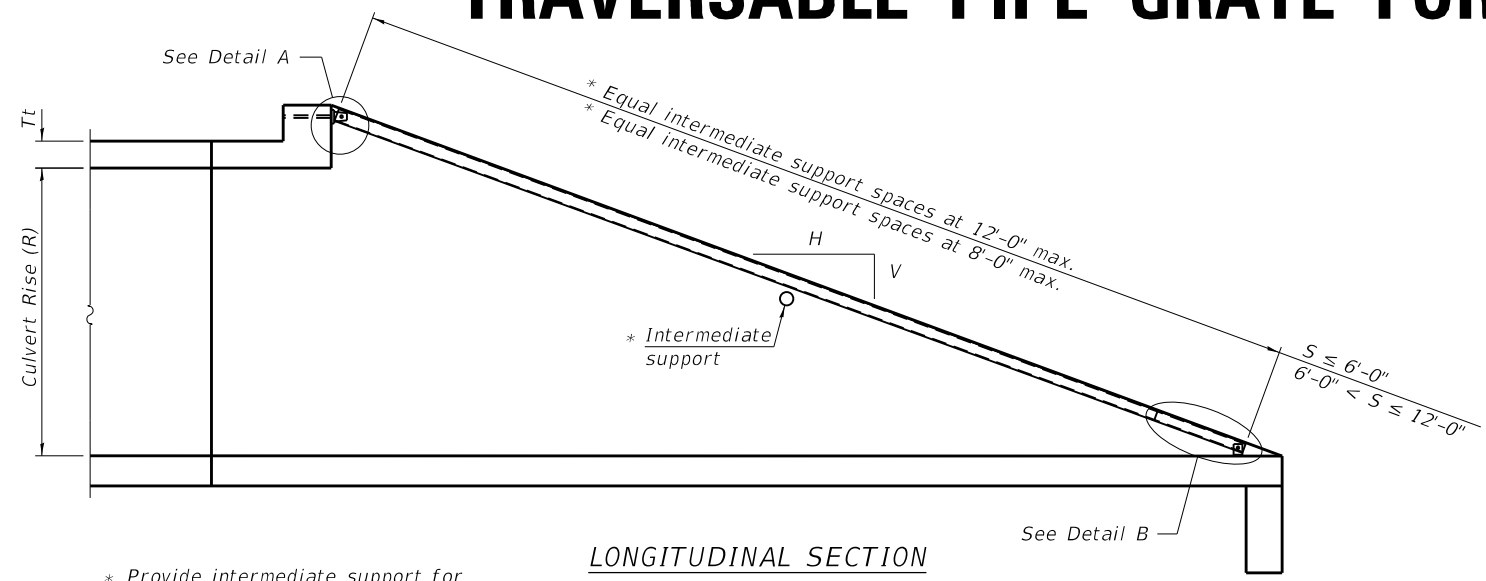
(Sheet 2 of 2)

SCB-TES

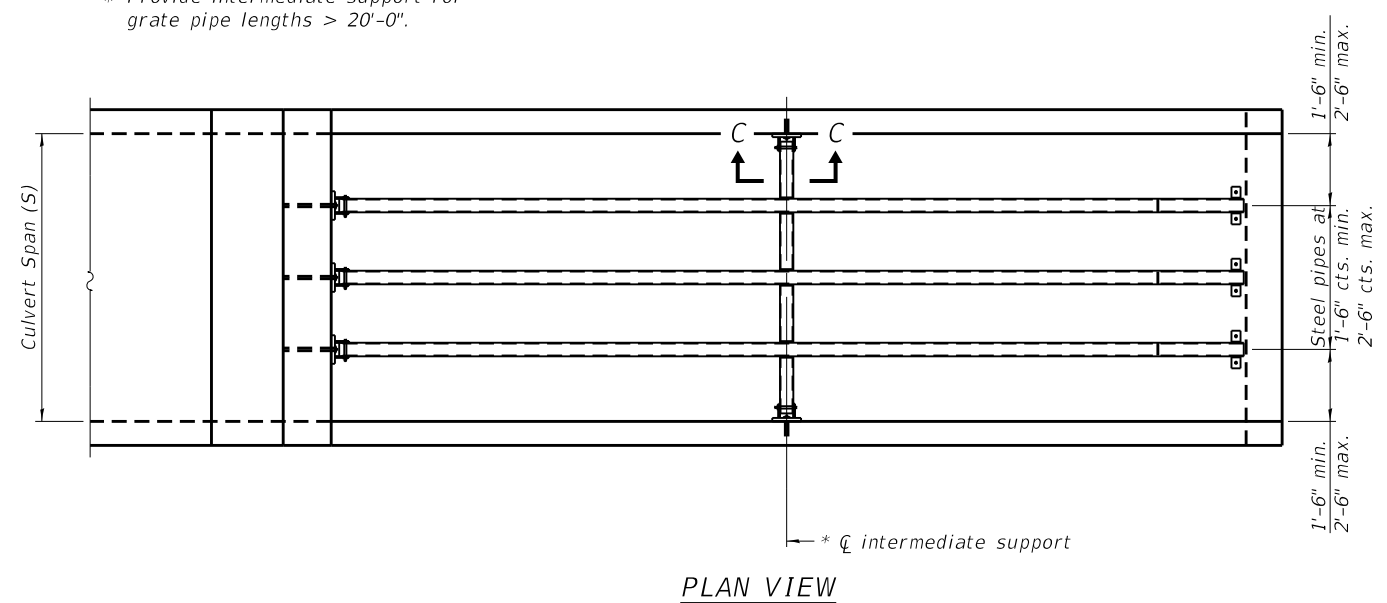
2-17-2017

FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 2\Projects\2017\2017-2018\084EBIDINTEG\CAD\Drawings\084EBIDINTEG\084EBIDINTEG.dwg		CHECKED -	REVISED - 1-05-16						303	129T	BOONE	66	48
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED - 5-09-14		CONTRACT NO. 64H07								
PLOT DATE = Mar-16-2018 09:55:01 AM		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

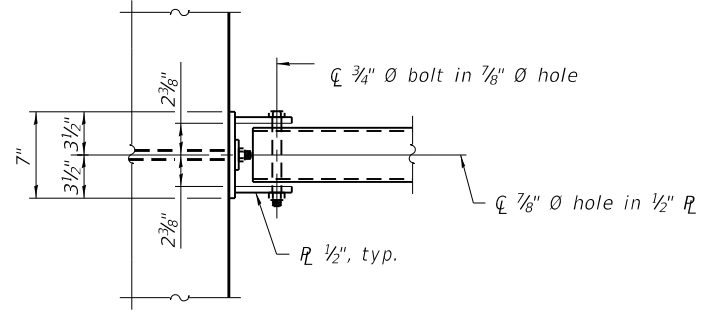
TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS



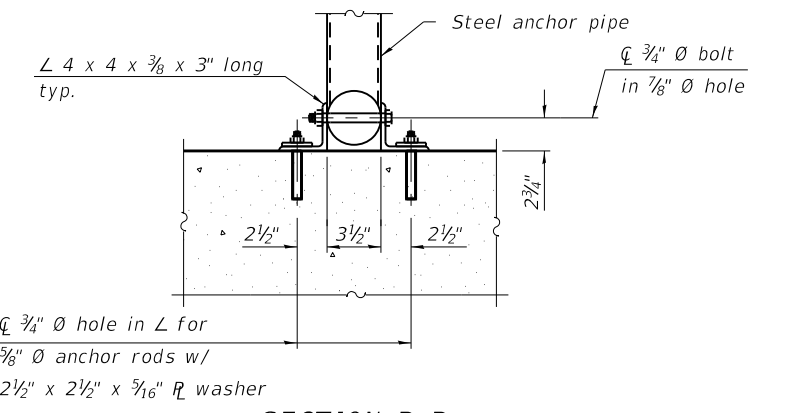
LONGITUDINAL SECTION



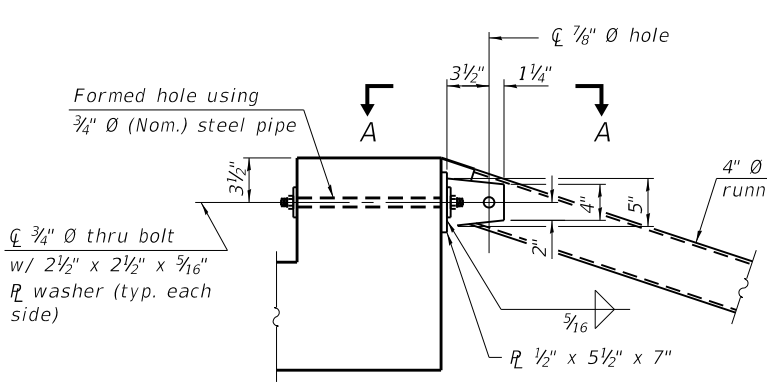
PLAN VIEW



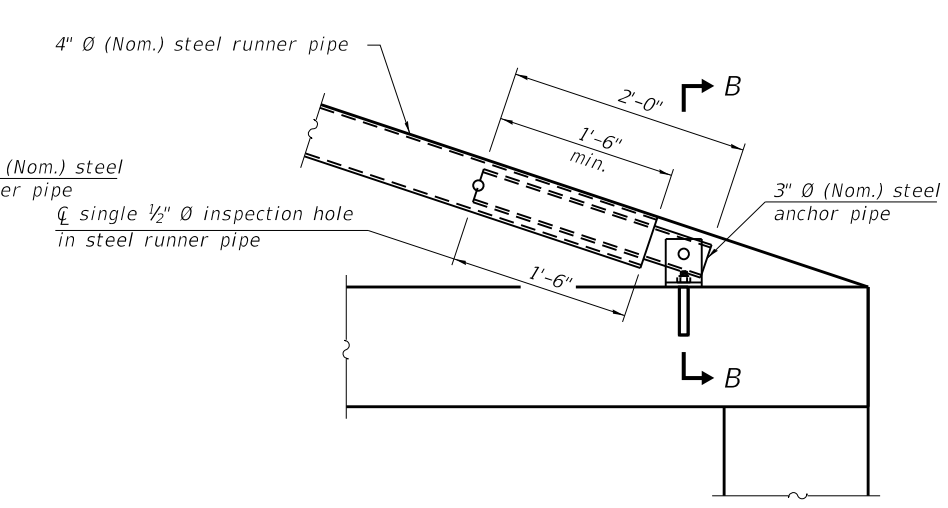
VIEW A-A



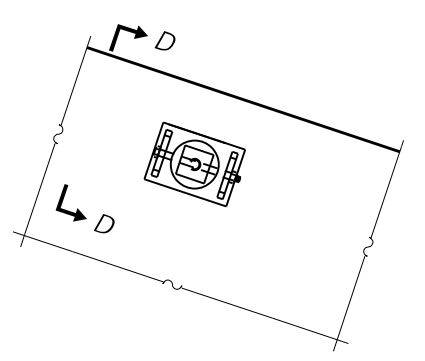
SECTION B-B



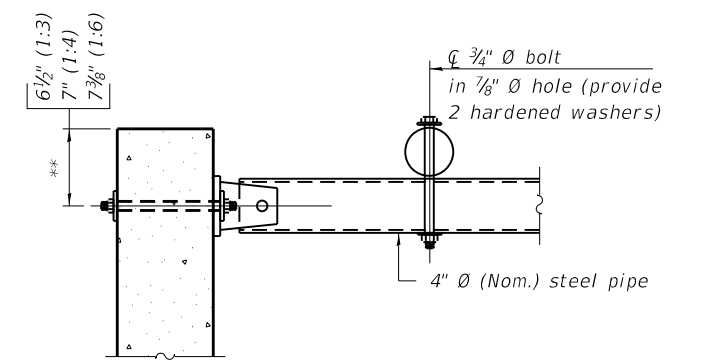
DETAIL A



DETAIL B



VIEW C-C



SECTION D-D

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

TPGBC-ZS 2-17-2017

(Sheet 1 of 2)

FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 2\Projects\22072018\22072018-CAD\Sheets\2207211-sht-details	DRAWN	CHECKED -	REVISED - 5-09-14					303	129T	BOONE	66	49
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		CONTRACT NO. 64H07							
PLOT DATE = Mar-16-2018 09:55:19 AM					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT						

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS

PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

GENERAL NOTES

This table is only to be used for cross drainage structures.

Precast Box Culvert Dimensions			Slope of End Section								
			1:3			1:4			1:6		
			Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
4	2	7.5	1 @ 8'-10"	N/A	8'-10"	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"
4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8"	1 @ 15'-11"	N/A	15'-11"
4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"
4	3	5	1 @ 11'-4"	N/A	11'-4"	1 @ 14'-10"	N/A	14'-10"	1 @ 22'-0"	1 @ 3'-7"	25'-7"
4	4	7.5	1 @ 15'-2"	N/A	15'-2"	1 @ 19'-10"	1 @ 3'-7"	23'-5"	1 @ 29'-4"	2 @ 3'-7"	36'-6"
4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 18'-11"	N/A	18'-11"	1 @ 28'-1"	2 @ 3'-7"	35'-3"
5	2	8	1 @ 8'-11"	N/A	8'-11"	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"
5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	11'-1"	1 @ 16'-5"	N/A	16'-5"
5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"
5	3	6	1 @ 11'-7"	N/A	11'-7"	1 @ 15'-2"	N/A	15'-2"	1 @ 22'-6"	1 @ 4'-7"	27'-1"
5	4	8	1 @ 15'-3"	N/A	15'-3"	1 @ 20'-0"	1 @ 4'-7"	24'-7"	1 @ 29'-7"	2 @ 4'-7"	38'-9"
5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"
5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"
5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"
6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
6	2	7	2 @ 8'-8"	N/A	17'-4"	2 @ 11'-5"	N/A	22'-10"	2 @ 16'-11"	N/A	33'-10"
6	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	1 @ 5'-7"	52'-7"
6	3	7	2 @ 11'-10"	N/A	23'-8"	2 @ 15'-6"	N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	51'-7"
6	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"
6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11"	2 @ 29'-1"	2 @ 5'-7"	69'-4"
6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"
6	5	7	2 @ 18'-2"	N/A	36'-4"	2 @ 23'-9"	2 @ 5'-7"	58'-8"	2 @ 35'-2"	2 @ 5'-7"	81'-6"
6	6	8	2 @ 21'-7"	1 @ 5'-7"	48'-9"	2 @ 28'-3"	2 @ 5'-7"	67'-8"	2 @ 41'-9"	3 @ 5'-7"	100'-3"
6	6	7	2 @ 21'-4"	1 @ 5'-7"	48'-3"	2 @ 27'-11"	2 @ 5'-7"	67'-0"	2 @ 41'-3"	3 @ 5'-7"	99'-3"
7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"
7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3 @ 6'-7"	78'-11"
7	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	3 @ 6'-7"	67'-11"	2 @ 35'-8"	4 @ 6'-7"	97'-8"
7	6	8	2 @ 21'-7"	2 @ 6'-7"	56'-4"	2 @ 28'-3"	3 @ 6'-7"	76'-3"	2 @ 41'-9"	5 @ 6'-7"	116'-5"
7	7	8	2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 32'-4"	4 @ 6'-7"	91'-0"	2 @ 47'-10"	6 @ 6'-7"	135'-2"
8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"
8	3	8	3 @ 12'-1"	N/A	36'-3"	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8"
8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"
8	5	8	3 @ 18'-5"	N/A	55'-3"	3 @ 24'-1"	3 @ 7'-7"	95'-0"	3 @ 35'-8"	4 @ 7'-7"	137'-4"
8	6	8	3 @ 21'-7"	2 @ 7'-7"	79'-11"	3 @ 28'-3"	3 @ 7'-7"	107'-6"	3 @ 41'-9"	5 @ 7'-7"	163'-2"
8	7	8	3 @ 24'-9"	3 @ 7'-7"	97'-0"	3 @ 32'-4"	4 @ 7'-7"	127'-4"	3 @ 47'-10"	6 @ 7'-7"	189'-0"
8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"
9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3"	3 @ 17'-11"	N/A	53'-9"
9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"
9	4	9	3 @ 15'-6"	N/A	46'-6"	3 @ 20'-4"	2 @ 8'-7"	78'-2"	3 @ 30'-1"	3 @ 8'-7"	116'-0"
9	5	9	3 @ 18'-8"	N/A	56'-0"	3 @ 24'-5"	3 @ 8'-7"	99'-0"	3 @ 36'-2"	4 @ 8'-7"	142'-10"
9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 28'-7"	3 @ 8'-7"	111'-6"	3 @ 42'-3"	5 @ 8'-7"	169'-8"
9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"
9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10"	3 @ 54'-5"	6 @ 8'-7"	214'-9"
9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"
10	2	10	3 @ 9'-6"	N/A	28'-6"	3 @ 12'-5"	N/A	37'-3"	3 @ 18'-5"	N/A	55'-3"
10	3	10	3 @ 12'-8"	N/A	38'-0"	3 @ 16'-6"	N/A	49'-6"	3 @ 24'-6"	3 @ 9'-7"	102'-3"
10	4	10	3 @ 15'-10"	N/A	47'-6"	3 @ 20'-8"	2 @ 9'-7"	81'-2"	3 @ 30'-7"	3 @ 9'-7"	120'-6"
10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"
10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"
10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"
10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"
10	9	10	3 @ 31'-7"	4 @ 9'-7"	133'-1"	3 @ 41'-3"	5 @ 9'-7"	171'-8"	3 @ 61'-0"	7 @ 9'-7"	250'-1"
10	10	10	3 @ 34'-9"	4 @ 9'-7"	142'-7"	3 @ 45'-5"	5 @ 9'-7"	184'-2"	3 @ 67'-1"	8 @ 9'-7"	277'-11"
11	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"
11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"
11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"
11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"
11	8	11	4 @ 28'-9"	3 @ 10'-7"	146'-9"	4 @ 37'-6"	4 @ 10'-7"	192'-4"	4 @ 55'-5"	6 @ 10'-7"	285'-2"
11	10	11	4 @ 35'-0"	4 @ 10'-7"	182'-4"	4 @ 45'-9"	5 @ 10'-7"	235'-11"	4 @ 67'-7"	8 @ 10'-7"	355'-0"
11	11	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"
12	2	12	4 @ 10'-0"	N/A	40'-0"	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"
12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"
12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"
12	6	12	4 @ 22'-8"	2 @ 11'-7"	113'-10"	4 @ 29'-7"	3 @ 11'-7"	153'-1"	4 @ 43'-9"	5 @ 11'-7"	232'-11"
12	8	12	4 @ 29'-0"	3 @ 11'-7"	150'-9"	4 @ 37'-10"	4 @ 11'-7"	197'-8"	4 @ 55'-11"	7 @ 11'-7"	304'-9"
12	10	12	4 @ 35'-4"	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"
12	12	12	4 @ 41'-8"	5 @ 11'-7"	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10"	4 @ 80'-3"	10 @ 11'-7"	436'-10"

TPGBC-ZS

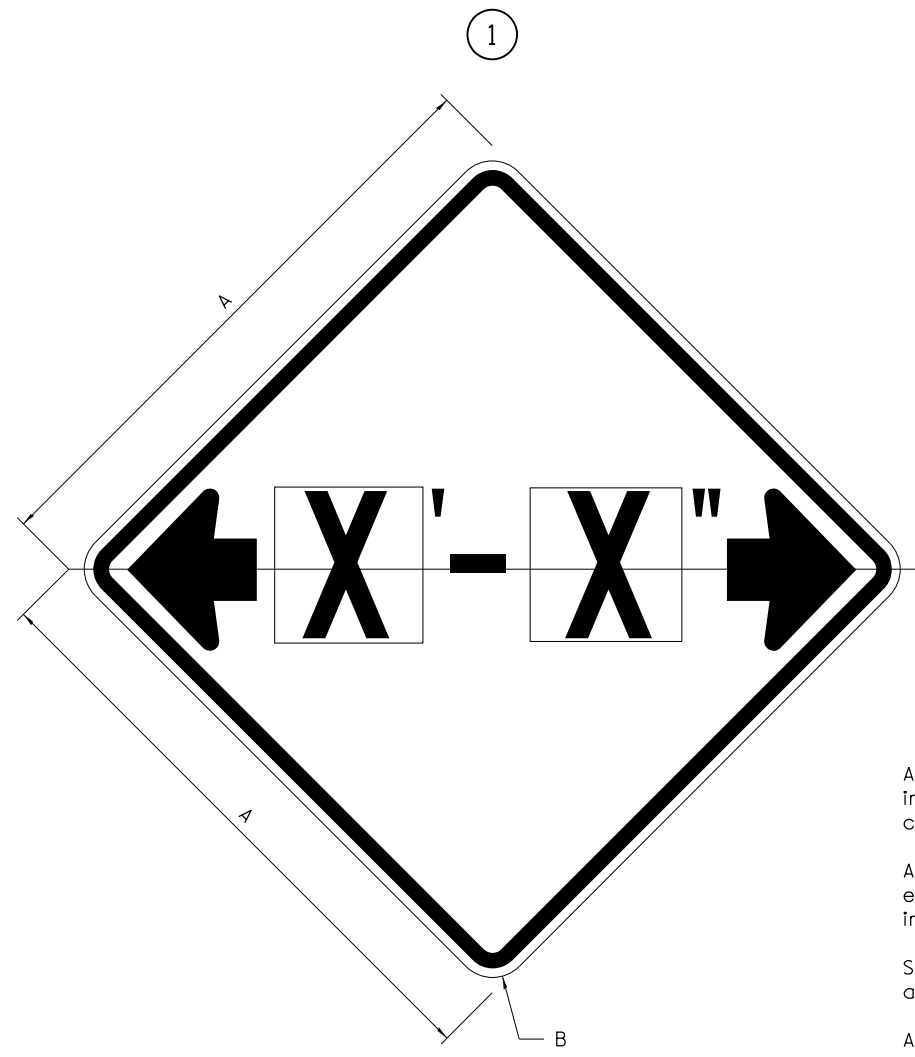
2-17-2017

(Sheet 2 of 2)

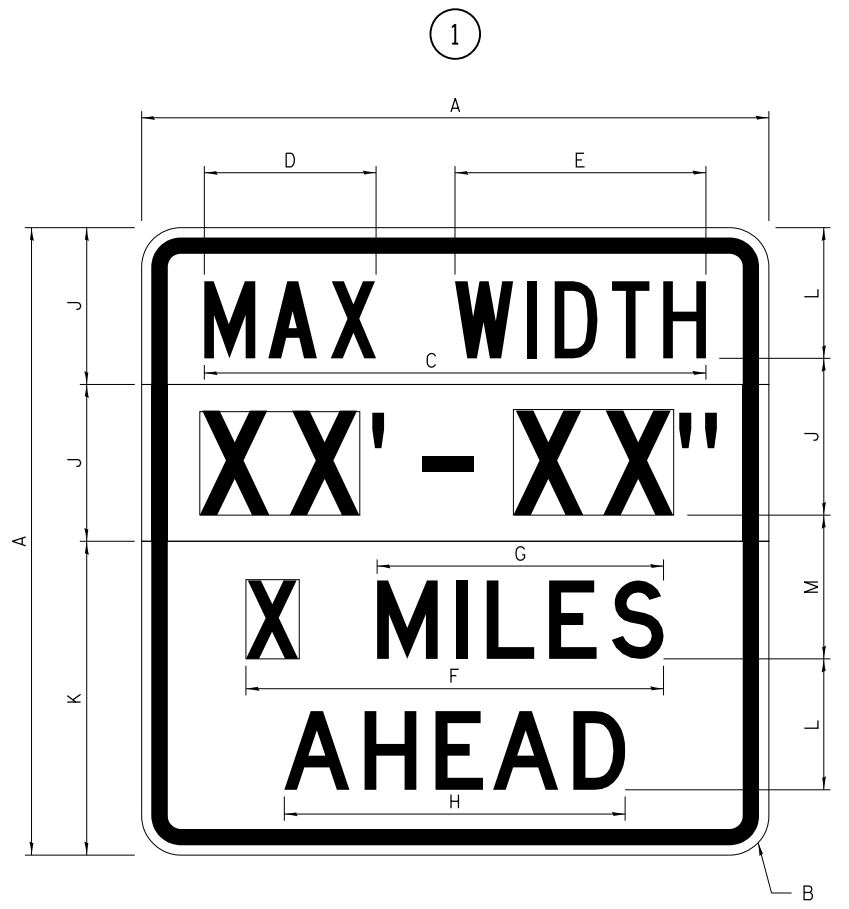
FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
p:\1\084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 2\Projects\P2020\Drawings\CADsheets\0207211-sht-details						303	129T	BOONE	66	50		
PLOT SCALE = 100.0000' / 1"						CHECKED -	REVISED -	CONTRACT NO. 64H07				
PLOT DATE = Mar-16-2018 09:55:36 AM						DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

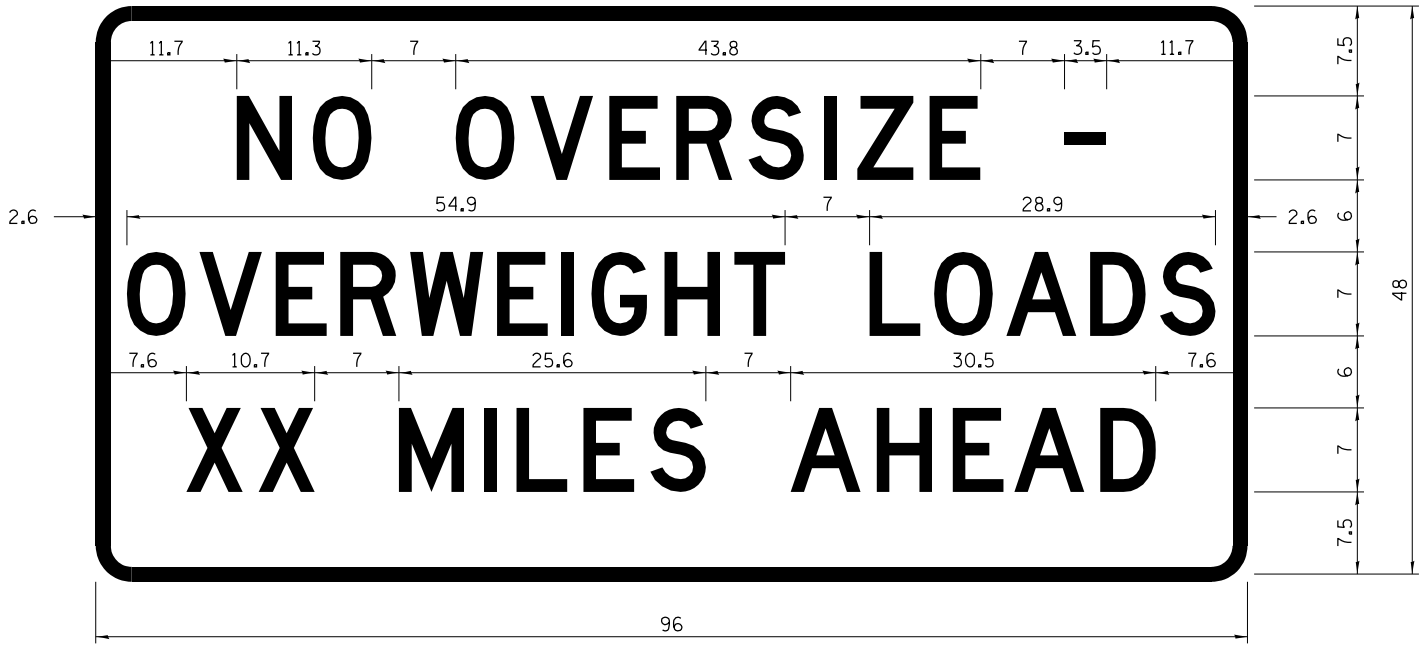
SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

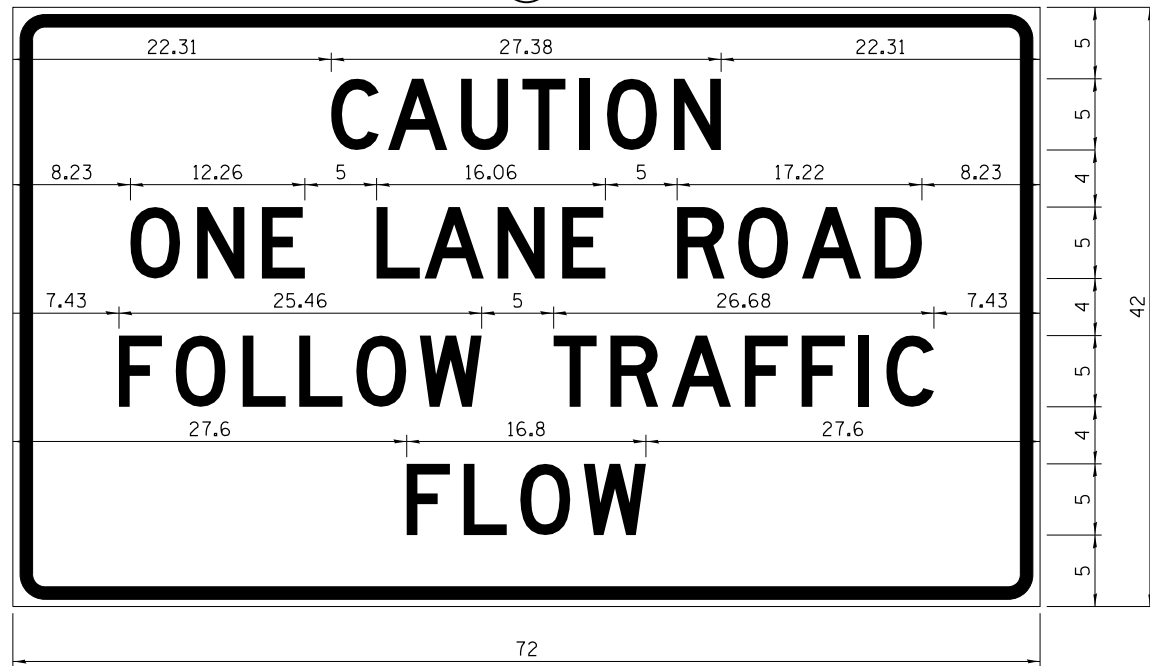
All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARDS	F.A.P. RTE. 303	SECTION 129T	COUNTY BOONE	TOTAL SHEETS 66	SHEET NO. 53
DRAWN BY: [Name]						CONTRACT NO. 64H07				
PLOT SCALE = 100.0000' / 1" CHECKED - REVISED - DATE -						ILLINOIS FED. AID PROJECT				

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
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Sign not to scale

GENERAL NOTES

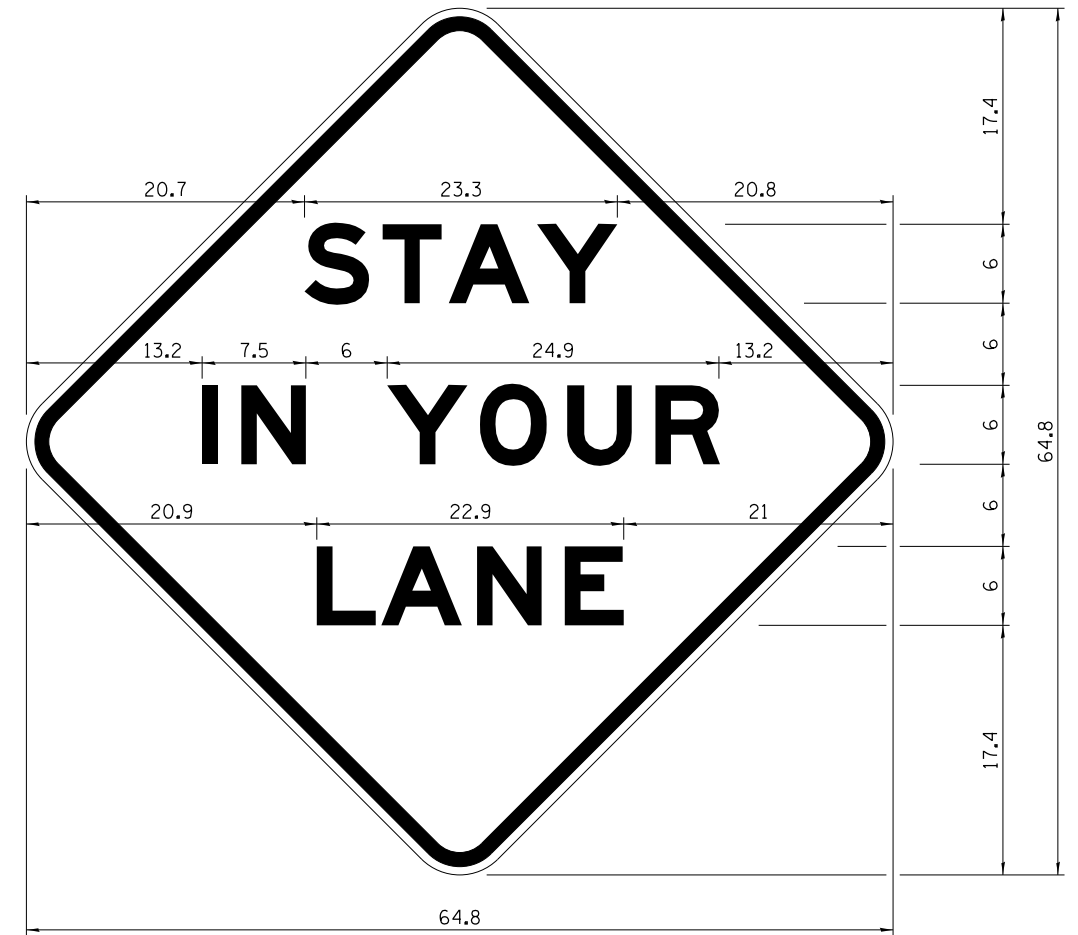
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
 "STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 3-02-16
p:\work\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\2017\2017-2018\084EBID\CAD\Sheets\2017-2018\2017-2018-084EBID-01.sht	DRAWN Data\CAD\Sheets\2017-2018-084EBID-01.sht	CHECKED -	REVISED -
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -
PLOT DATE = Mar-16-2018 09:59:58 AM			

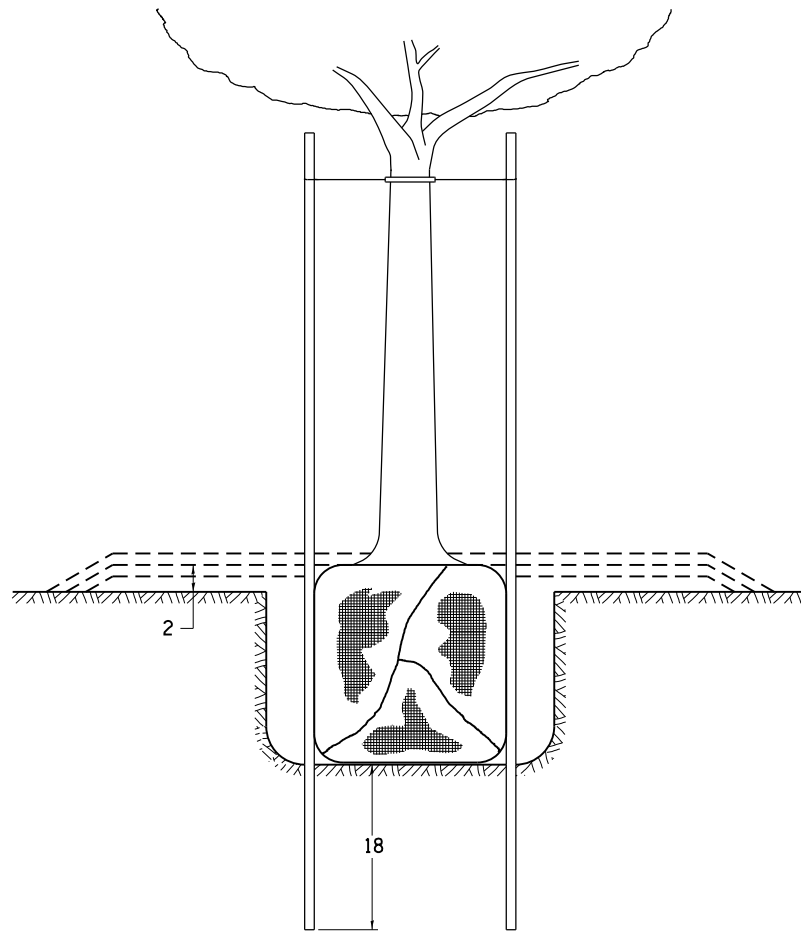
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

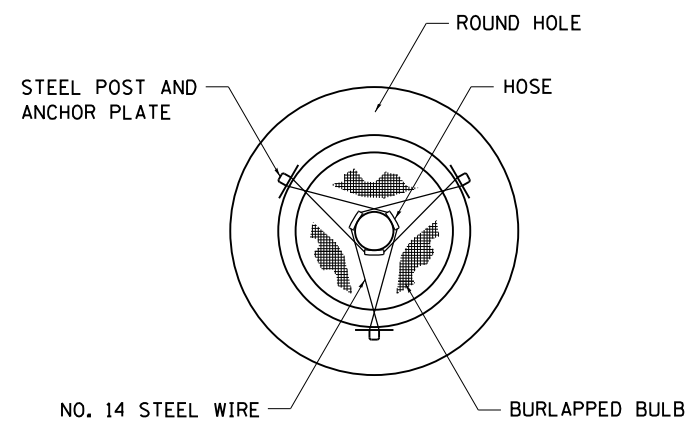
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	54
CONTRACT NO. 64H07				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DETAILS OF PLANTING AND BRACING TREES

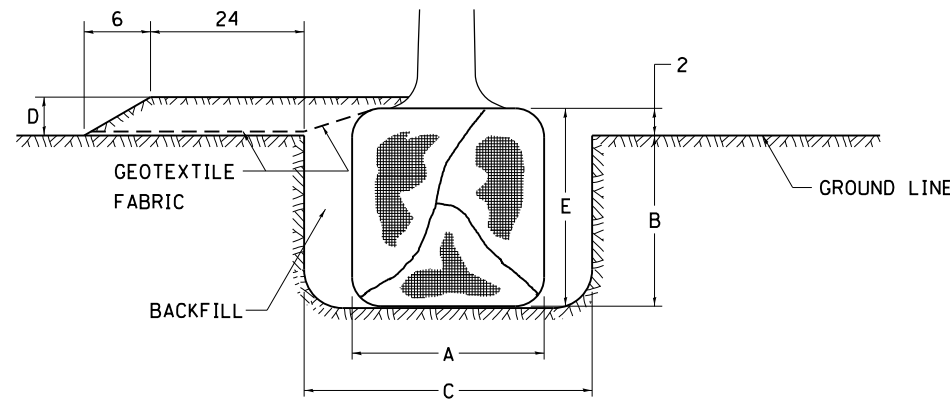


TREES SMALLER THAN 4 1/2 IN DIAMETER

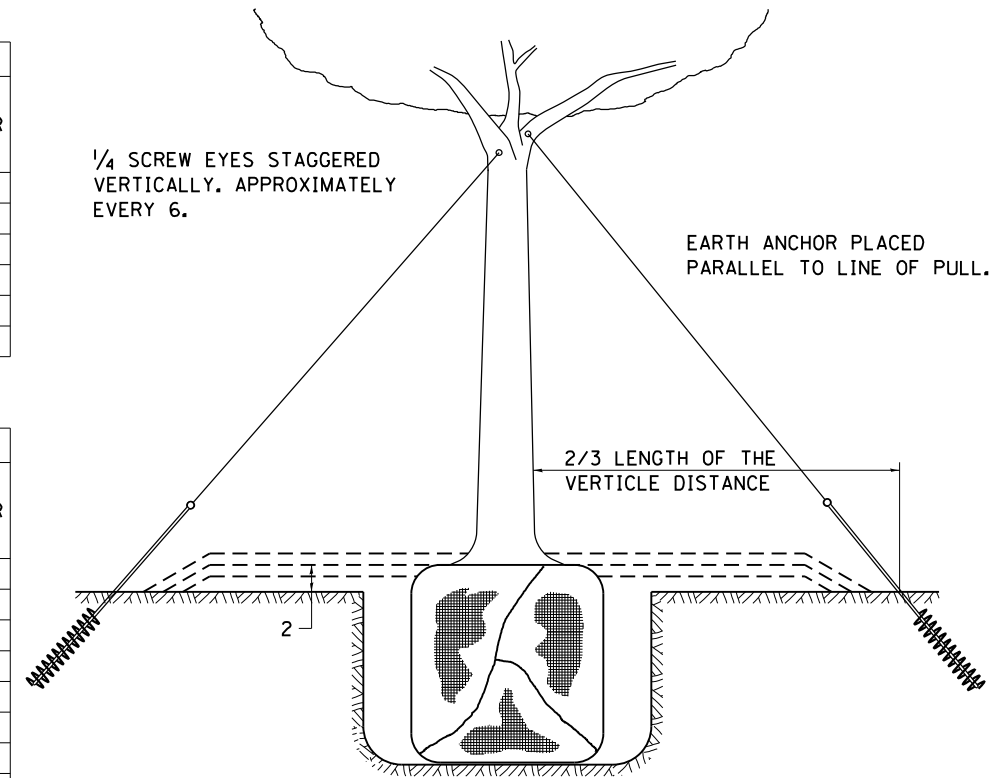


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10'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

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



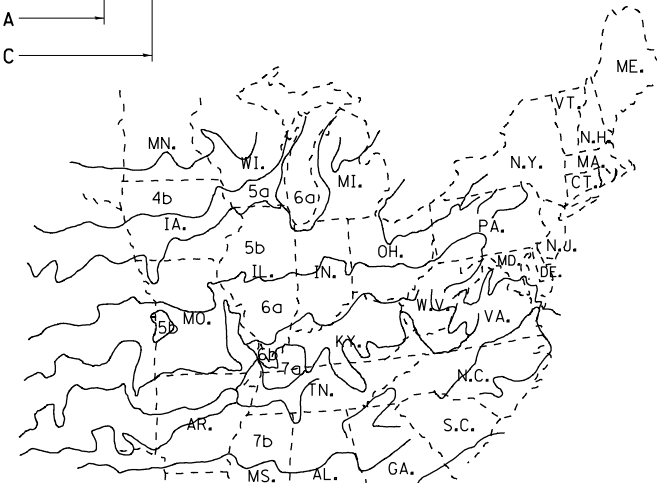
TREES OVER 4 1/2 IN DIAMETER



1/4 SCREW EYES STAGGERED VERTICALLY. APPROXIMATELY EVERY 6.

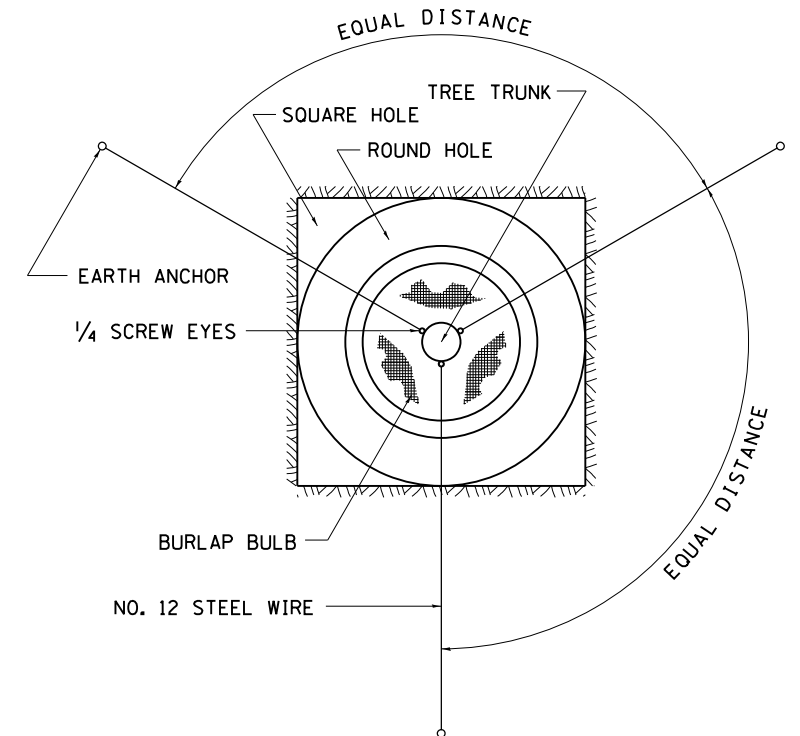
EARTH ANCHOR PLACED PARALLEL TO LINE OF PULL.

2/3 LENGTH OF THE VERTICLE DISTANCE



PLANT HARDINESS ZONE MAP

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



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = millerm	DESIGNED -	REVISED - 10-18-11
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

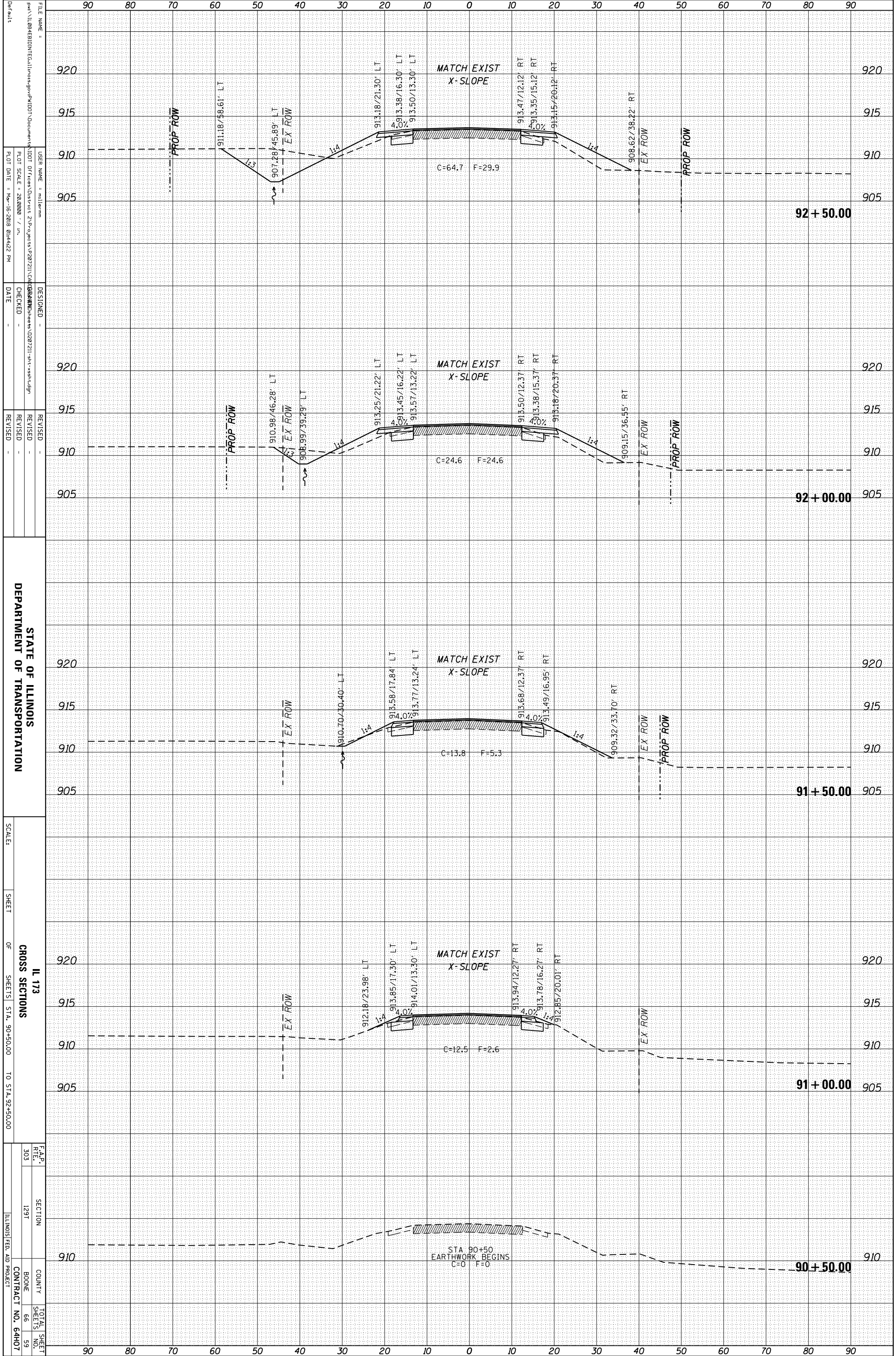
REGION 2 / DISTRICT 2 STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129T	BOONE	66	58
CONTRACT NO. 64H07				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



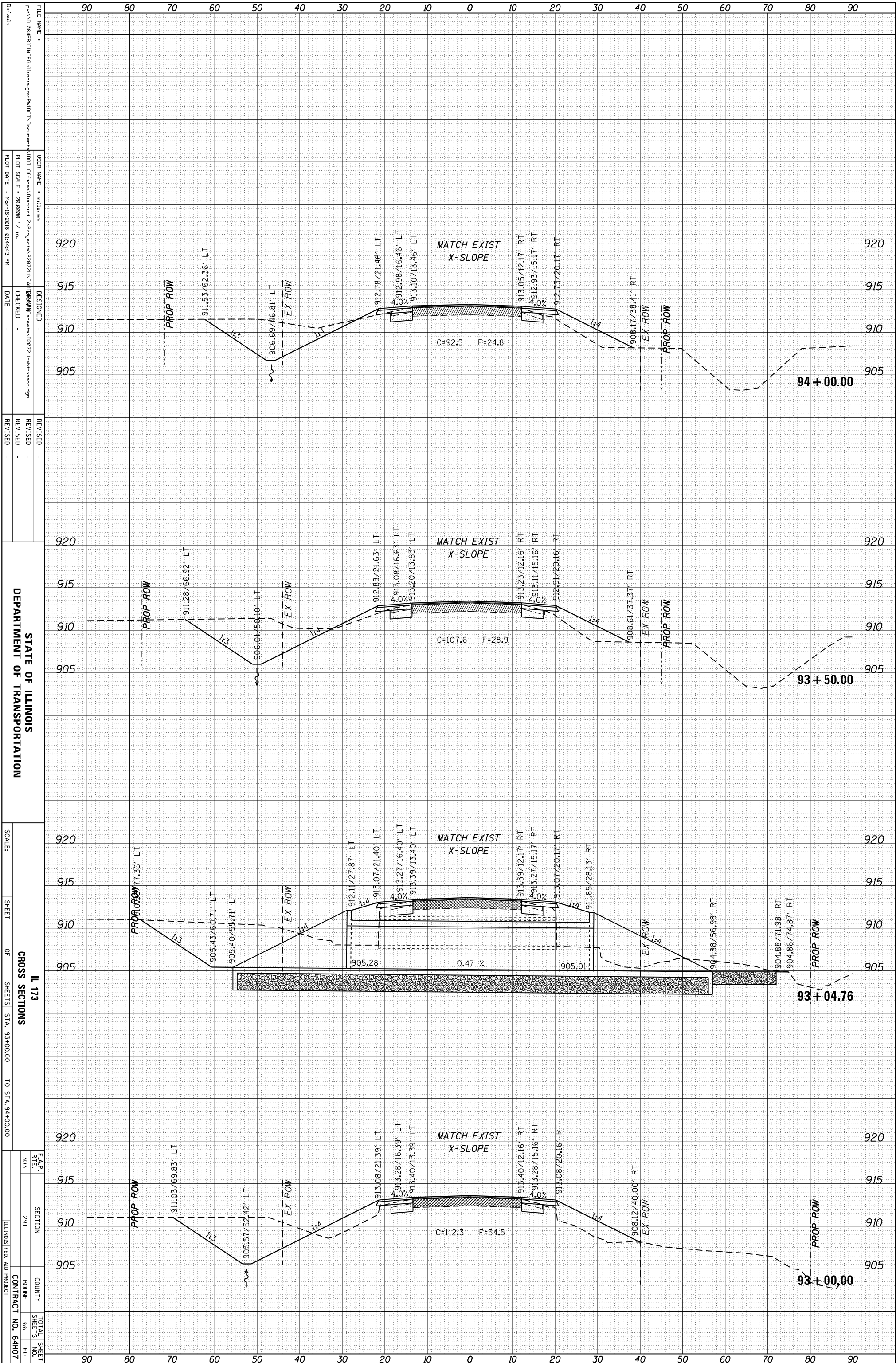
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:
SHEET OF SHEETS STA. 90+50.00 TO STA. 92+50.00

IL 173
CROSS SECTIONS
SECTION 129T
COUNTY BOONE
CONTRACT NO. 64H07
TOTAL SHEET NO. 59

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



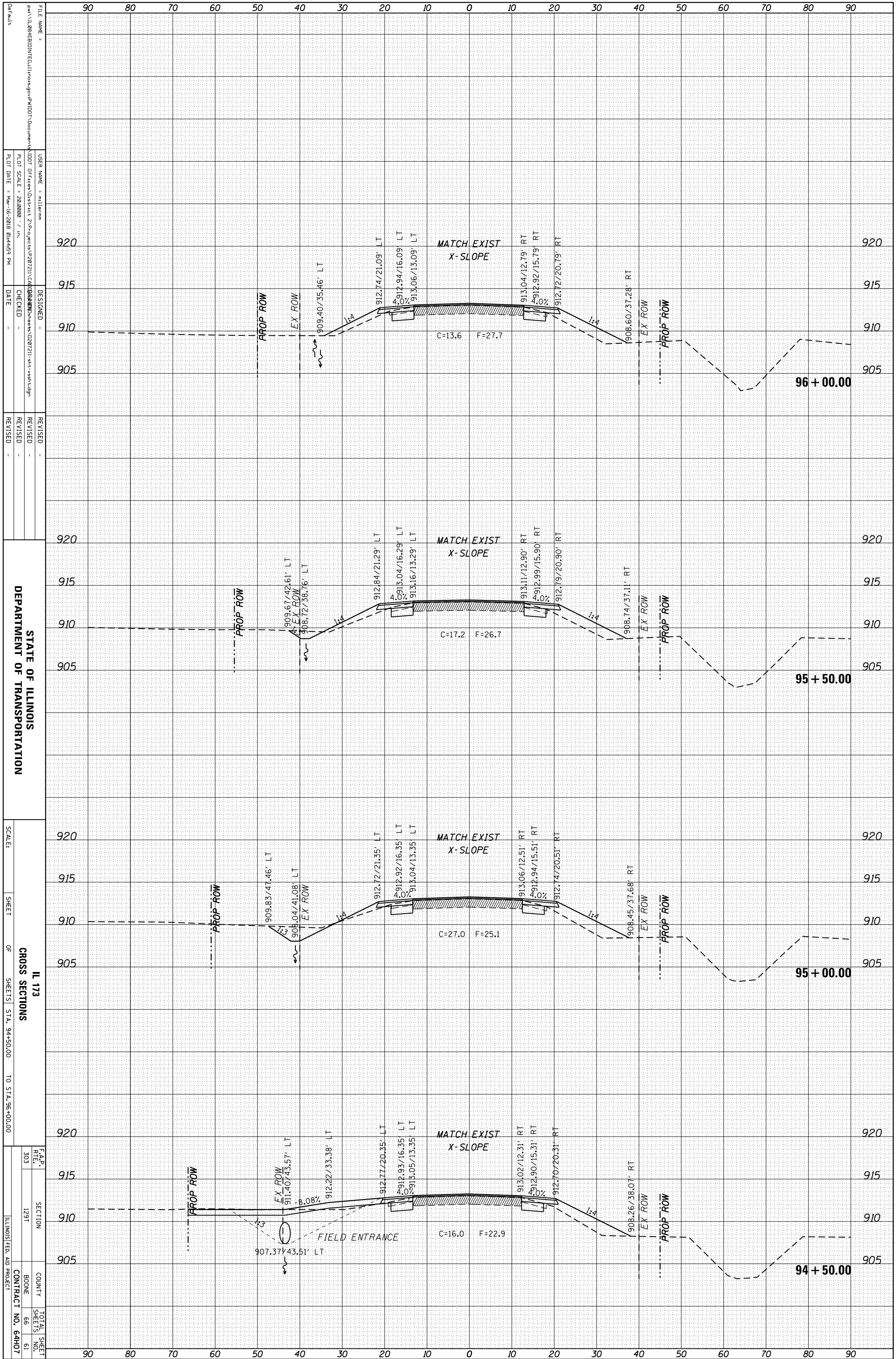
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 173
CROSS SECTIONS
SHEET OF SHEETS STA. 93+00.00 TO STA. 94+00.00

F.A.P. RTL.	SECTION	COUNTY	TOTAL SHEET NO.
303	129T	BOONE	66
			60
			CONTRACT NO. 64H07
			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



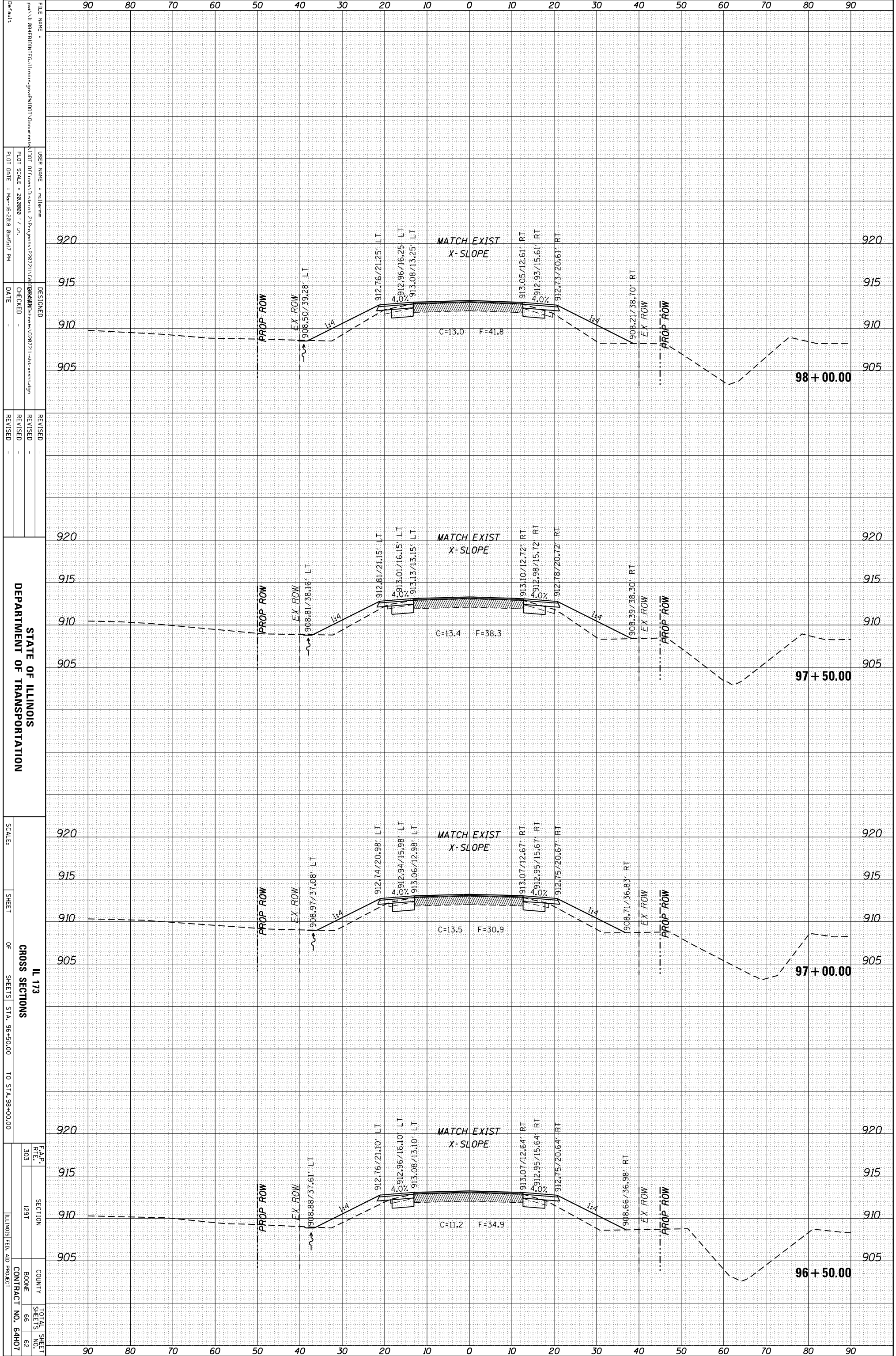
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 94+50.00 TO STA. 96+00.00

IL 173
CROSS SECTIONS
TOTAL SHEET NO. 66
SHEET NO. 61
CONTRACT NO. 64H07

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

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



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 PLOT DATE = Mar-16-2018 01:45:17 PM

DESIGNED -
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 DATE -

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 REVISID -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

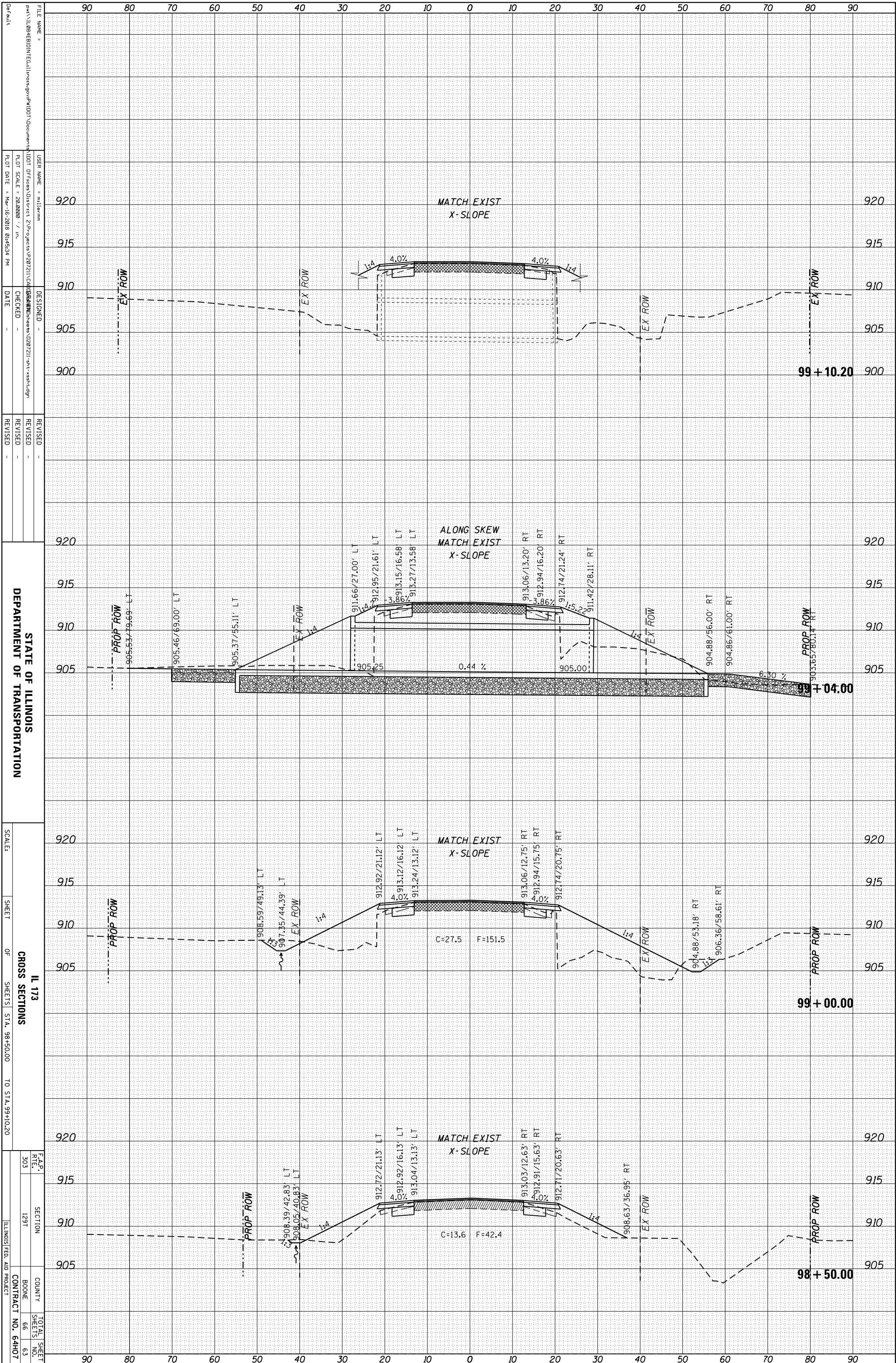
SCALE:
 SHEET OF SHEETS STA. 96+50.00 TO STA. 98+00.00

IL 173
 CROSS SECTIONS

F.A.P. RTL. 303	SECTION 129T	COUNTY BOONE	TOTAL SHEET NO. 62
			CONTRACT NO. 64H07
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

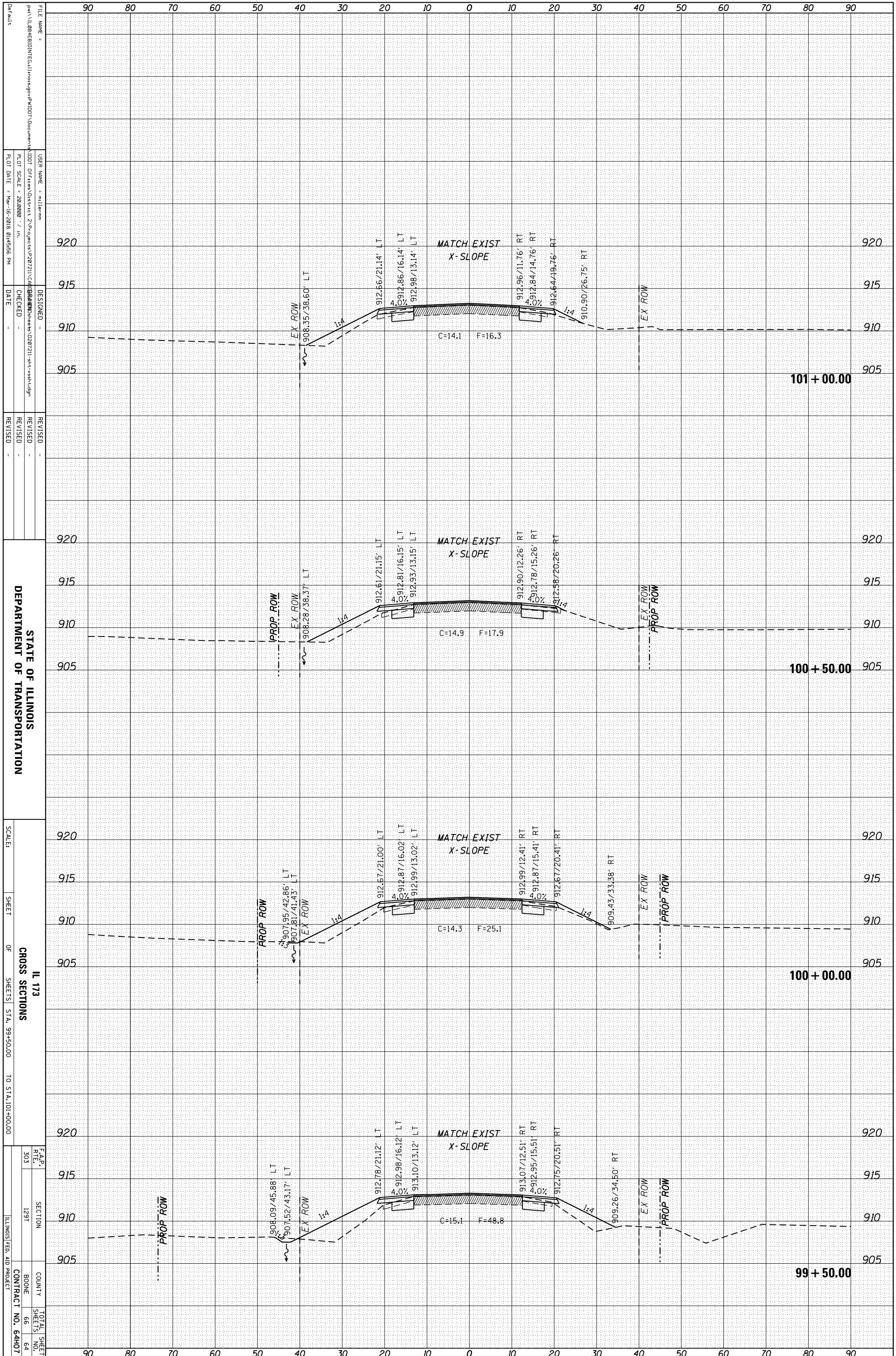
SCALE: SHEET OF SHEETS STA. 98+50.00 TO STA. 99+10.20

IL 173
CROSS SECTIONS
F.A.P. R.T.L. 303 SECTION 129T COUNTY BOONE SHEETS 66 TOTAL SHEET NO. 63 CONTRACT NO. 64H07 ILLINOIS FED. AID PROJECT

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PLOT DATE: Mar-16-2018 01:45:34 PM
DESIGNED: ...
CHECKED: ...
DATE: ...
REVISED: ...

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



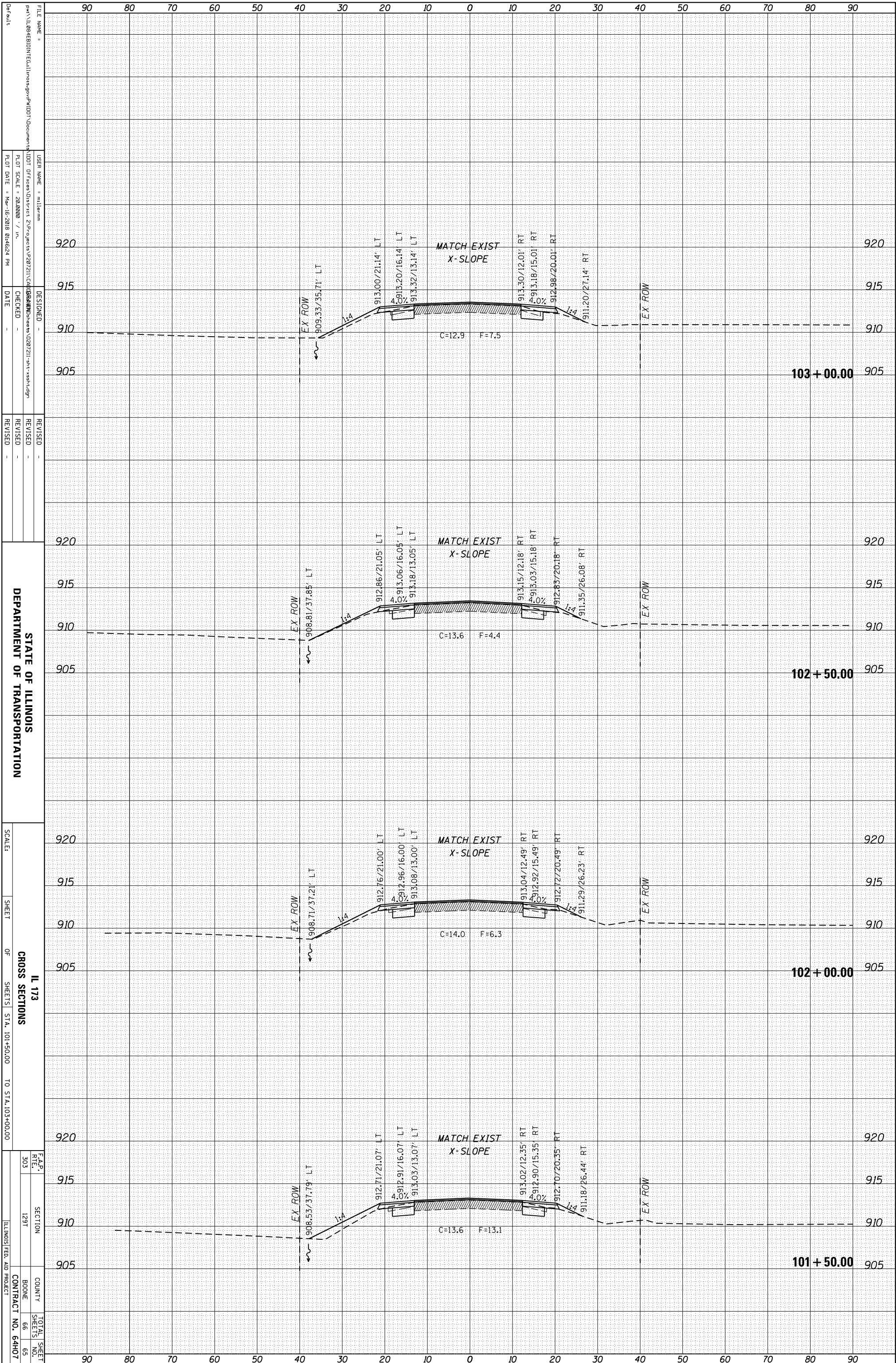
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 99+50.00 TO STA. 101+00.00

IL 173
CROSS SECTIONS
SECTION 129T
COUNTY BOONE
TOTAL SHEETS 66
SHEETS NO. 64
CONTRACT NO. 64H07
ILLINOIS FED. AID PROJECT

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

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



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 101+50.00 TO STA. 103+00.00

IL 173
CROSS SECTIONS
SECTION 129T
BOONE COUNTY
CONTRACT NO. 64H07

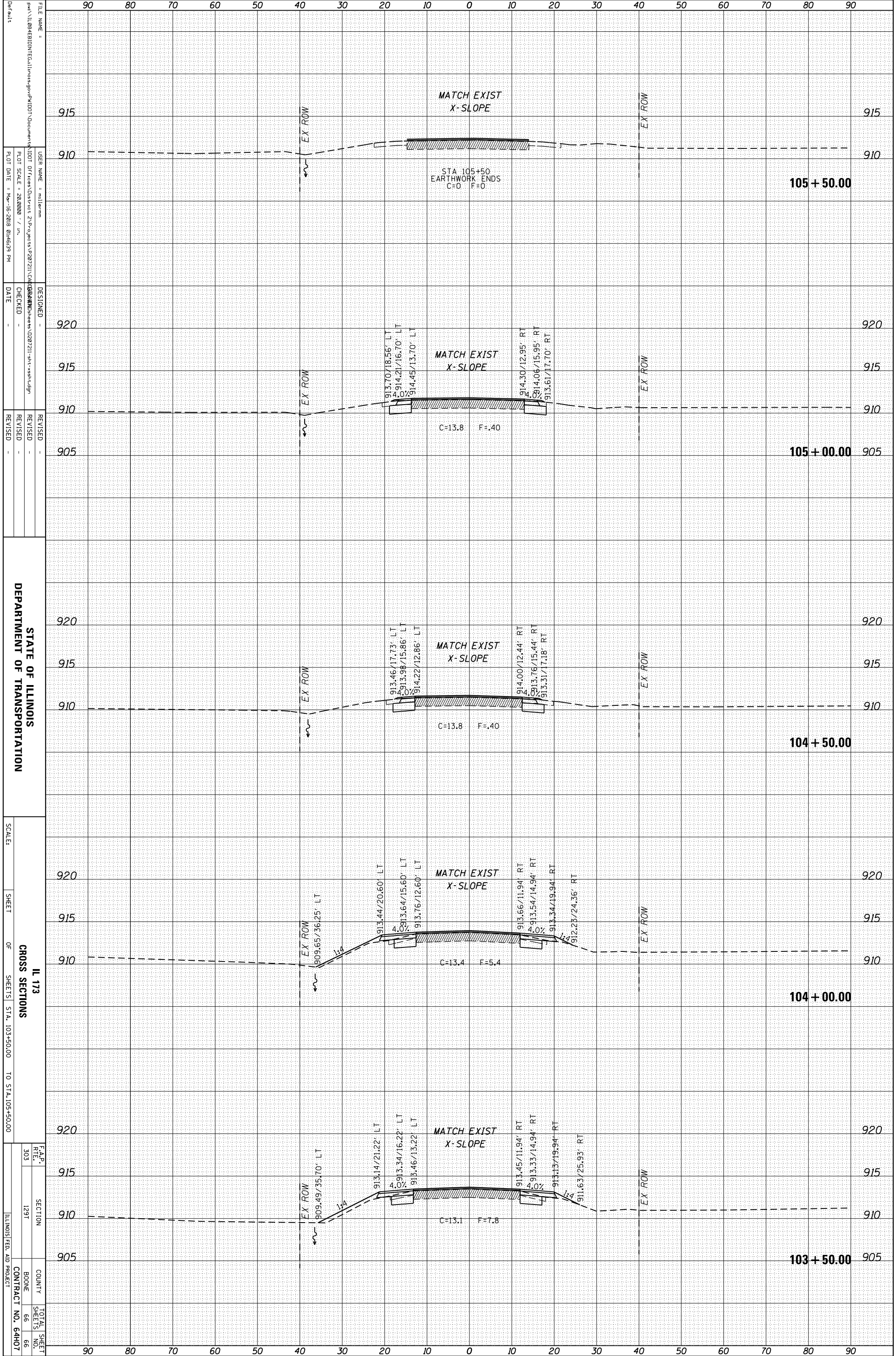
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DATE: ...

REVISIONS:
REVISION NO. 1
DESCRIPTION: ...

TOTAL SHEET NO. 65
SHEETS 66

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

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



FILE NAME =
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DESIGNED -
 CHECKED -
 DATE -

REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 173
 CROSS SECTIONS
 SHEET OF SHEETS STA. 103+50.00 TO STA. 105+50.00

F.A.P. RTL.	SECTION	COUNTY	TOTAL SHEET NO.
303	129T	BOONE	66
			66

ILLINOIS FED. AID PROJECT
 CONTRACT NO. 64407