

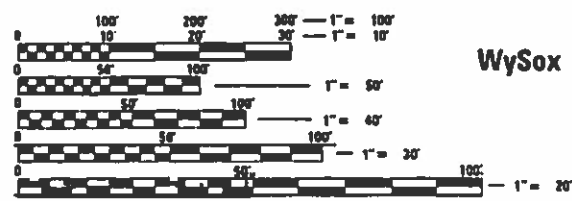
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- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 515001-03 NAME PLATES FOR BRIDGES
- 542311-07 TRAVERSABLE PIPE GRATES FOR CONCRETE END SECTIONS
- 542411 SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15IN THRU 60IN DIA
- 601001-05 PIPE UNDERDRAINS
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- 635001-02 DELINEATORS
- 666001-01 RIGHT-OF-WAY MARKERS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF ROAD MOVING OPERATIONS 2L, 2W - DAY ONLY
- 701201-05 LANE CLOSURE 2L, 2W - DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE 2L, 2W SLOW MOVE OPERATION DAY ONLY 45MPH OR MORE
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701326-04 LANE CLOSURE 2L, 2W-PAVEMENT WIDENING 45MPH OR MORE
- 701901-08 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POST FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



WySox Township, Section 5 T23N

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

PROJECT ENGINEER MAT DOBIE
 PROJECT MANAGER MATT FASSLER (815)284-5974

CONTRACT NO. 64L08

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.

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

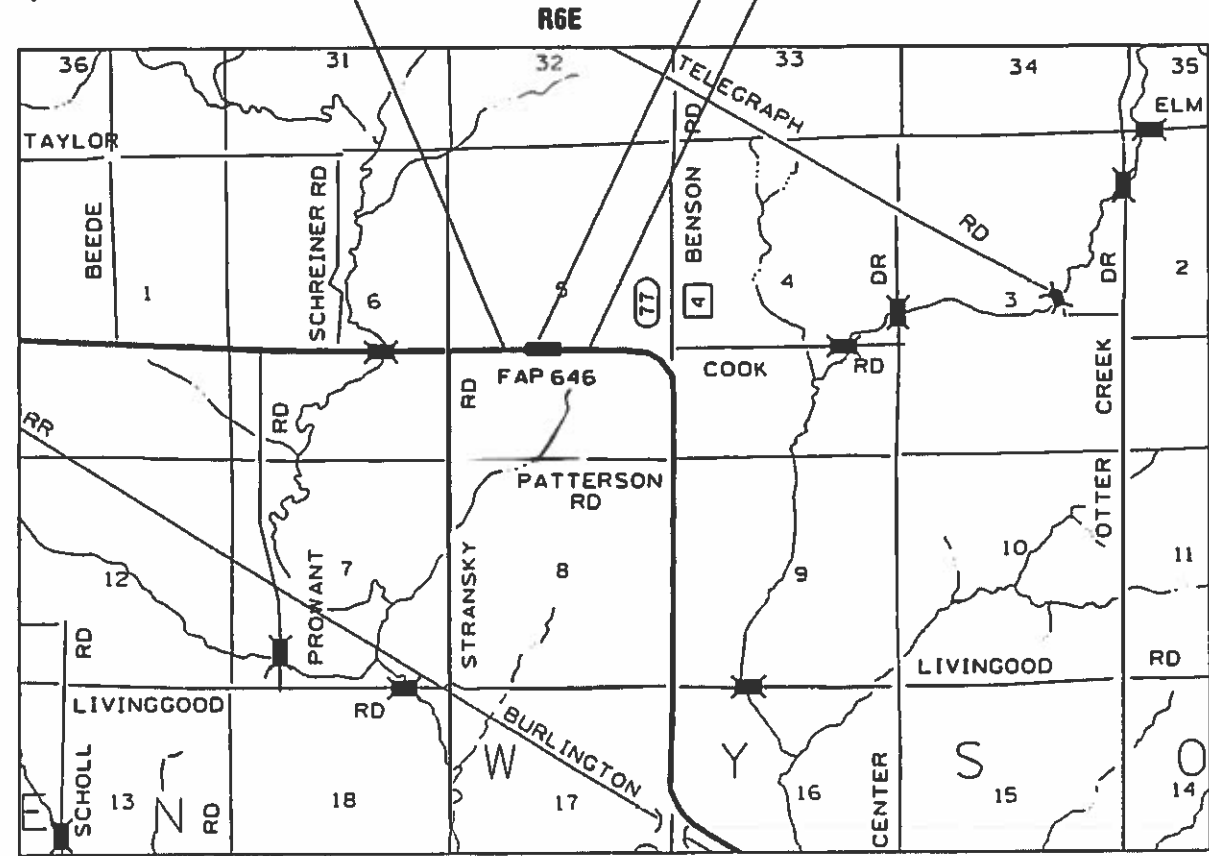
FAP ROUTE 646 (IL 40)
 SECTION 5CR
 PROJECT STP-DU9U(218)
 CULVERT REPLACEMENT
 CARROLL COUNTY

C-92-039-18

Project Ends 426 + 86
 Improvement Ends 430 + 05

Culvert Replacement
 EX SN 008-1046
 Prop SN 008-1121
 Double PCBC 6'x3'

Project Begins 426 + 41
 Improvement Begins 423 + 25



F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
646	5CR	CARROLL	49 1
			CONTRACT NO. 64L08

D-92-021-16



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 1-25-2019
K. M. Muehl
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23, 2019
M. J. Fassler
 ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2019
M. J. Fassler
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS

GENERAL NOTES

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 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.

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.

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 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.

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

The new number for this structure will be 008-1121.

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

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

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

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

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

The following Mixture Requirements are applicable for this project:

Location and Mixture Use(s):	Resurfacing		Shoulder	
	Surface	Level Binder	Top Lift	All Lower Lifts
PG:	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
Mixture Composition (Mixture Gradation):	IL 9.5	IL 9.5FG	IL 9.5 Or 9.5 FG	IL 19.0
Friction Aggregate:	C	N/A	C	N/A
20 Year ESAL	0.3	.03	N/A	N/A
Mixture Weight:	112 Lb/Sy/In	112 Lb/Sy/In	112 Lb/Sy/In	112 Lb/Sy/In
Quality Management Program:	QC/QA	QC/QA	QC/QA	QC/QA
Sublot Size:	N/A	N/A	N/A	N/A
Number of Roller Passes ¹⁾ :	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.

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.

FILE NAME = 64L08.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
	PLOT SCALE =	DRAWN -	REVISED -			FA 646 (IL 40)	5CR	Carroll	49	2
	PLOT DATE = 1/24/2019 11:19 AM	CHECKED -	REVISED -			CONTRACT NO. 64L08		ILLINOIS	FED. AID PROJECT	
	DATE = 7/26/2018 10:25 AM	REVISED -		SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	

GENERAL NOTES

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

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, 630-985-4043	Jo-Carroll Energy, 815-273-2222
Jo-Carroll Energy, 815-858-2207	NICOR Gas, 630-388-3046

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

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

Excess trees that cannot be planted along the IL 40 project limits shall be planted at alternative locations in Carroll or Whiteside Counties as determined by the District Roadside Management Specialist.

County and township highway officials have identified the following route in accordance with District Two Good Neighbor Policy: Railroad Avenue beginning at Main Street in Milledgeville, continue onto Dutchtown Road, left onto Ideal Road, right onto School Road, ending at Illinois Route 40 in Chadwick. Appropriate repair quantities have been included in the plans and shall be implemented only at the direction of the Engineer.

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.

FILE NAME = 64L08.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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	PLOT DATE = 1/24/2019 11:19 AM	DATE - 7/26/2018 10:25 AM	REVISED -			CONTRACT NO. 64L08			ILLINOIS	FED. AID PROJECT	
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES

CONSTR. CODE
80% FED. (STP)
20% STATE
ROADWAY
0004
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	120	120
20200100	EARTH EXCAVATION	CU YD	2860	2860
* 25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
* 25000310	SEEDING, CLASS 4	ACRE	0.75	0.75
** 25000750	MOWING	ACRE	0.75	0.75
25100630	EROSION CONTROL BLANKET	SQ YD	6776	6776
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	560	560
28000305	TEMPORARY DITCH CHECKS	FOOT	612	612
28000500	INLET AND PIPE PROTECTION	EACH	3	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	51	51
28200200	FILTER FABRIC	SQ YD	51	51
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	201	201
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	854	854

* SPECIALTY ITEM **100% STATE

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				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
				ILLINOIS		FED. AID PROJECT			

SUMMARY OF QUANTITIES

CONSTR. CODE
80% FED. (STP) 20% STATE
ROADWAY
0004
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	177	177
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	30	30
40600982	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	SQ YD	160	160
40600990	TEMPORARY RAMP	SQ YD	18	18
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	28	28
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	131	131
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	TON	124	124
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	127	127
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	380	380
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	72	72
51500100	NAME PLATES	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	4	4
54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	138	138

* SPECIALTY ITEM

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				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
								ILLINOIS FED. AID PROJECT CONTRACT NO. 64L08	

SUMMARY OF QUANTITIES

CONSTR. CODE
80% FED. (STP)
20% STATE
ROADWAY
0004
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
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
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	48	48
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	34	34
54260515	SLOPED METAL END SECTION STD 542411, 15", 1:6	EACH	2	2
54260518	SLOPED METAL END SECTION STD 542411, 18", 1:6	EACH	2	2
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	126	126
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	131	131
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
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
60107600	PIPE UNDERDRAINS 4"	FOOT	112	112

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES

CONSTR. CODE
80% FED. (STP)
20% STATE
ROADWAY
0004
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	20	20
61140100	STORM SEWERS (SPECIAL), 10"	FOOT	20	20
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	20	20
63200310	GUARDRAIL REMOVAL	FOOT	281	281
63500105	DELINEATORS	EACH	6	6
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	12	12
* 66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	5	5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4678	4678

* SPECIALTY ITEM

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				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
				ILLINOIS		FED. AID PROJECT			
				CONTRACT NO. 64L08					

SUMMARY OF QUANTITIES

CONSTR. CODE
80% FED. (STP)
20% STATE
ROADWAY
0004
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3	3
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	131	131
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0054500	ROCK FILL	TON	120	120

* SPECIALTY ITEM

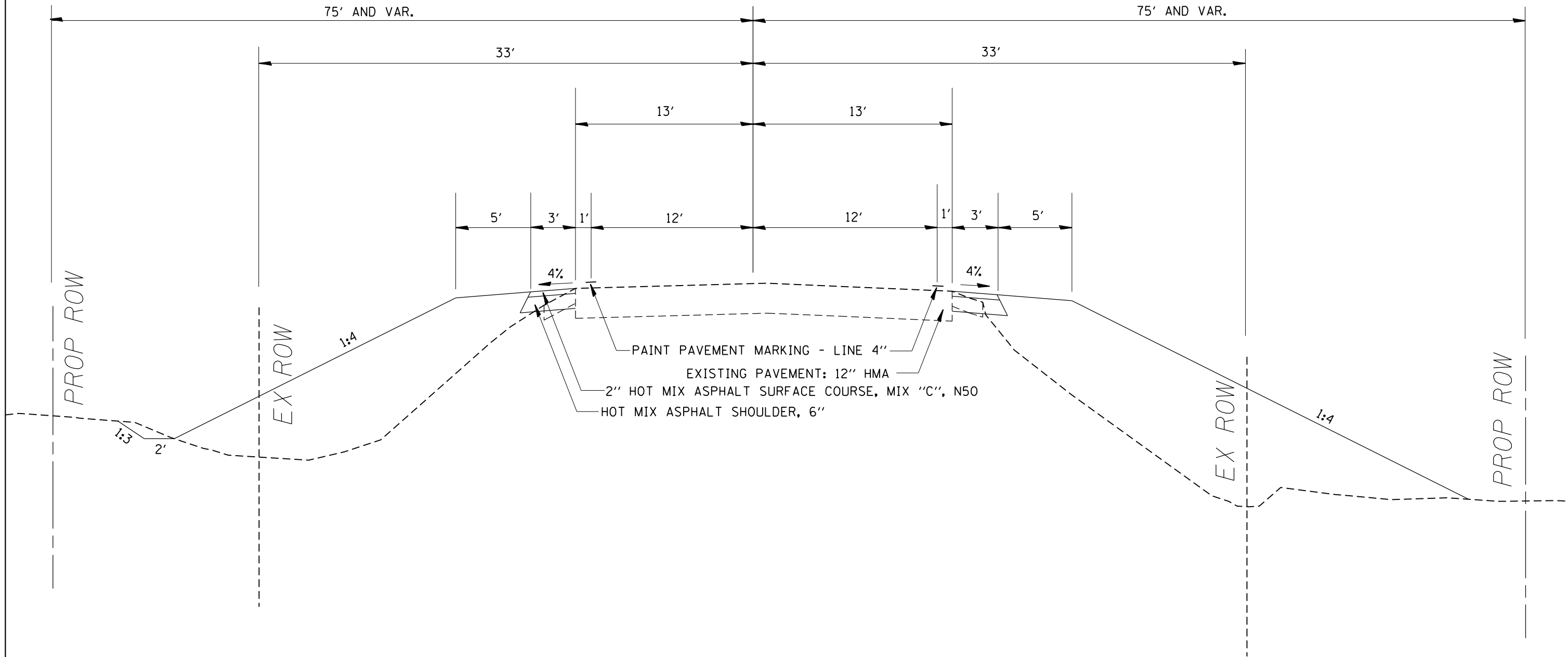
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					SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 64L08		

TYPICAL SECTIONS

423 + 25 - 430 + 05

CL IL 40



HMA UNIT WIGHT 112 LBS/IN/SQ YD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 TYPICAL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	9
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

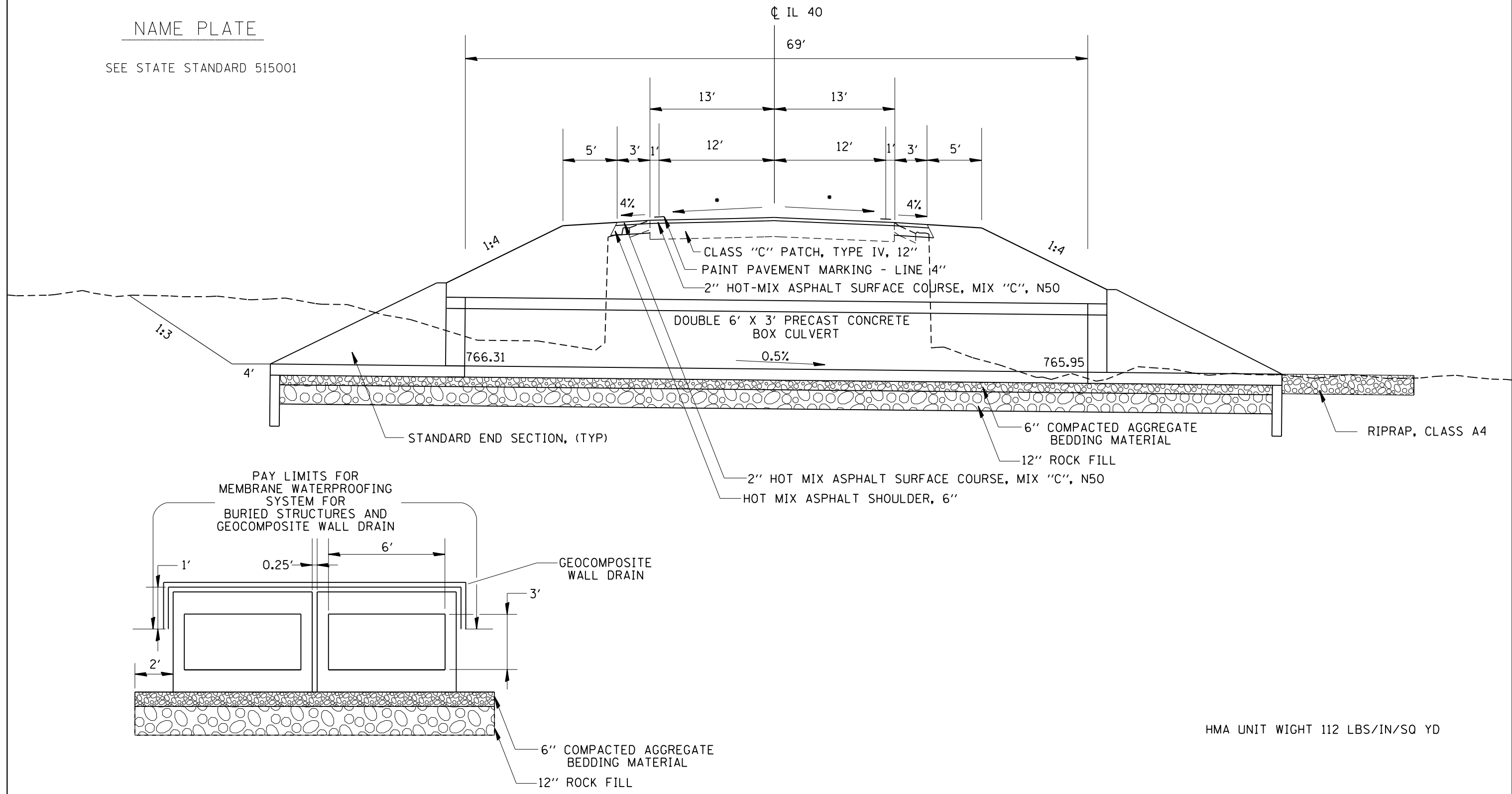
CULVERT TYPICAL SECTION

STA. 426 + 63.53

STATION 426+63
 FAP RTE 646 SEC 5CR
 BUILT 20__ BY
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 STR. NO. 081-1121

NAME PLATE

SEE STATE STANDARD 515001



HMA UNIT WIGHT 112 LBS/IN/SQ YD

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 40 TYPICAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\Design\Revised\Sheets\02.64L08-sht-typical.dgn			CONTRACT NO. 64L08		646	5CR	CARROLL	49	10
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -							
	PLOT DATE = Mar-28-2019 07:28:47 AM	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
										ILLINOIS FED. AID PROJECT

SCHEDULE OF QUANTITIES & EARTHWORK SCHEDULE

61140100	STORM SEWERS (SPECIAL), 10" <u>LOCATION</u>	<u>FOOT</u> 20	<u>COMMENTS</u> AS DIRECTED BY THE ENGINEER
	TOTAL	20	

X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES <u>LOCATION</u> 426+64	<u>SQ_YD</u> 131	<u>COMMENTS</u>
	TOTAL	131	

61140200	STORM SEWERS (SPECIAL), 12" <u>LOCATION</u>	<u>FOOT</u> 20	<u>COMMENTS</u> AS DIRECTED BY THE ENGINEER
	TOTAL	20	

Z0054500	ROCK FILL <u>LOCATION</u> STA 426+64	<u>TON</u> 120	<u>COMMENTS</u>
	TOTAL	120	

63200310	GUARDRAIL REMOVAL <u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>
	STA 425+97 TO 427+51 LT	154	
	STA 426+04 TO 427+31 RT	127	
	TOTAL	281	

63500105	DELINEATORS <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 426+64 LT & RT	6	
	TOTAL	6	

66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 423+00 33' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 423+00 33' RT	1	
	STA 423+50 50' LT	1	
	STA 423+50 55' RT	1	
	STA 426+25 75' LT	1	
	STA 426+60 75' RT	1	
	STA 427+50 75' LT	1	
	STA 428+50 60' RT	1	
	STA 429+25 60' LT	1	
	STA 429+50 50' RT	1	
	STA 430+00 33' LT	1	
	STA 430+00 33' RT	1	
	TOTAL	12	

66700305	PERMANENT SURVEY MARKERS, TYPE II <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	TO BE DETERMINED IN THE FIELD	1	LOCATION DETERMINED BY DISTRICT CHIEF OF SURVEYS
	TOTAL	1	

78001110	PAINT PAVEMENT MARKING - LINE 4" <u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>
	STA 423+50 TO 429+50 YELLOW (2 APL.)	2400	DOUBLE SOLID
	TOTAL YELLOW	2400	
	STA 423+50 TO 429+25 WHITE (2 APL.)	1150	LT EDGE LINE
	STA 423+85 TO 429+49 WHITE (2 APL.)	1128	RT EDGE LINE
	TOTAL WHITE	2278	
	TOTAL	4678	

C 64L08				
EARTH WORK SCHEDULE				
LOCATION	EARTH EXC	EARTH EXC ADJ SHRINK 25%	EMBANK (FILL)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
423+00 - 428+50	2450	1838	701	1137
428+50 - 430+00	408	306	77	229
TOTAL	2858	2144	778	1366

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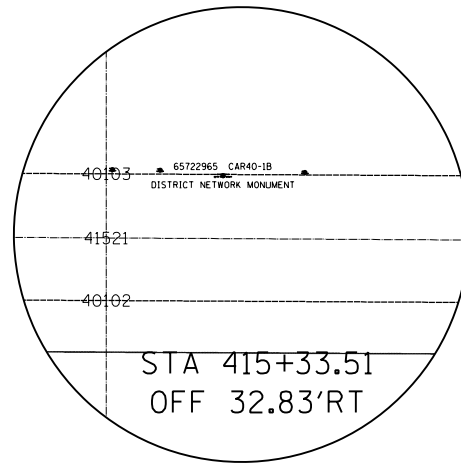
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = Jan-25-2019 08:22:15 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

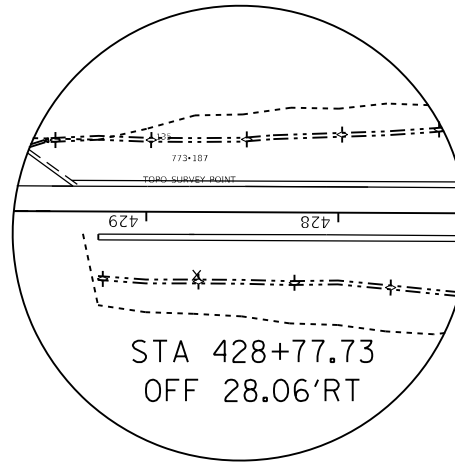
EARTHWORK SCHEDULE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	13
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

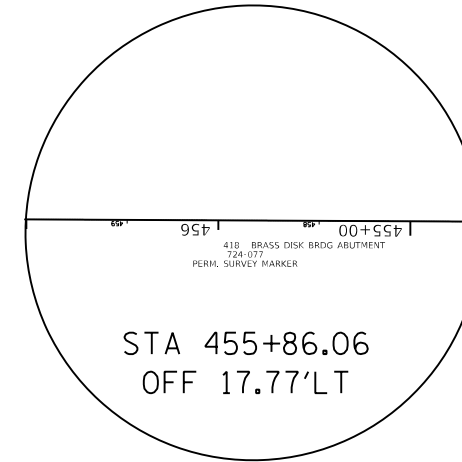
HORIZONTAL & VERTICAL CONTROL



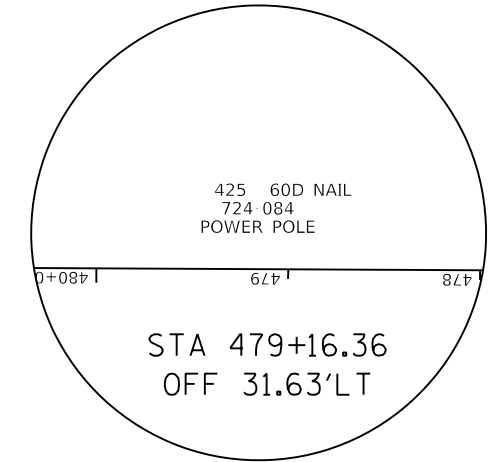
POINT NO. 65722465
CHAIN PCARRCOIL40



POINT NO. 135
CHAIN PCARRCOIL40



POINT NO. 418
CHAIN PCARRCOIL40



POINT NO. 425
CHAIN PCARRCOIL40

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-25-2019 08:24:23 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE. 646	SECTION 5CR	COUNTY CARROLL	TOTAL SHEETS 49	SHEET NO. 14
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

HORIZONTAL & VERTICAL CONTROL

PROP. CURVE 71240
 PI STA. = 285+23.47
 $\Delta = 58^\circ 33' 15''$ (RT)
 D = $1^\circ 41' 52''$
 R = 3,375.00'
 T = 1,892.19'
 L = 3,449.12'
 E = 494.24'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 266+31.28
 P.T. STA. = 300+80.40

PROP. CURVE G250
 PI STA. = 487+15.09
 $\Delta = 2^\circ 33' 58''$ (RT)
 D = $0^\circ 20' 23''$
 R = 16,871.50'
 T = 377.87'
 L = 755.61'
 E = 4.23'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 483+37.22
 P.T. STA. = 490+92.83

PROP. CURVE G270
 PI STA. = 542+45.46
 $\Delta = 0^\circ 52' 22''$ (LT)
 D = $0^\circ 05' 43''$
 R = 60,104.63'
 T = 457.83'
 L = 915.65'
 E = 1.74'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 537+87.63
 P.T. STA. = 547+03.27

PROP. CURVE G240
 PI STA. = 391+34.20
 $\Delta = 89^\circ 50' 39''$ (LT)
 D = $10^\circ 52' 49''$
 R = 526.60'
 T = 525.17'
 L = 825.74'
 E = 217.11'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 386+09.03
 P.T. STA. = 394+34.78

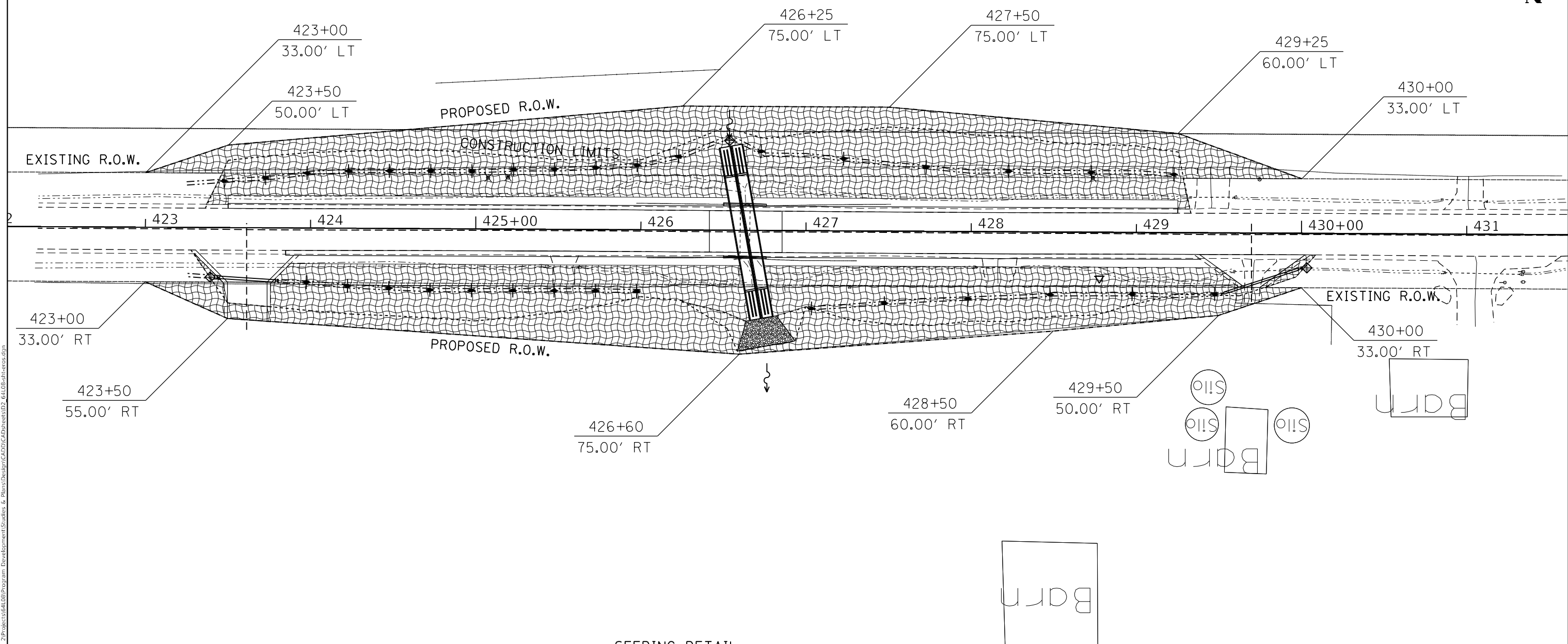
PROP. CURVE G260
 PI STA. = 496+76.42
 $\Delta = 0^\circ 41' 33''$ (LT)
 D = $0^\circ 04' 31''$
 R = 76,127.95'
 T = 459.98'
 L = 919.95'
 E = 1.39'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 492+16.44
 P.T. STA. = 501+36.39

PROP. CURVE G280
 PI STA. = 572+33.14
 $\Delta = 55^\circ 16' 39''$ (RT)
 D = $17^\circ 56' 17''$
 R = 319.41'
 T = 167.26'
 L = 308.16'
 E = 41.14'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 570+65.88
 P.T. STA. = 573+74.04

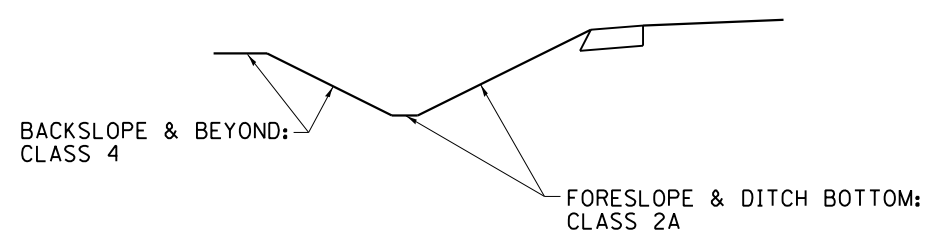
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	USER NAME = fasslermj PLOT SCALE = 100.0000' / in. PLOT DATE = Jan-25-2019 08:24:38 AM	DESIGNED - _____ DRAWN - _____ CHECKED - _____ DATE - _____	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A. RTE. = 646 SECTION = 5CR	COUNTY = CARROLL CONTRACT NO. 64L08	TOTAL SHEETS = 49 SHEET NO. = 15	ILLINOIS FED. AID PROJECT
SCALE: _____					SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____				

RIGHT-OF-WAY, LANDSCAPE & EROSION CONTROL DETAILS



SEEDING DETAIL



- † = TEMPORARY DITCH CHECKS
- ▨ = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = RIP RAP
- ◊ = INLET & PIPE PROTECTION

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DRAWN - _____	REVISOR - _____	REVISOR - _____
PLOT SCALE = 60.0000' / in.	CHECKED - _____	REVISOR - _____
PLOT DATE = Jan-25-2019 08:38:53 AM	DATE - _____	REVISOR - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

R.O.W. & EROSION CONTROL	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	18
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation

SOIL BORING LOG

Date 8/6/14

ROUTE FAP 646 DESCRIPTION P92-068-11 IL 40 culvert, .7 miles East of Stransky Road LOGGED BY W. Garza

SECTION 5T-R LOCATION Wysox Twp. - 5 E 1/2, SEC. , TWP. 23N, RNG. 6E

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

STRUCT. NO. 008-C018 Station 404+70

BORING NO. B-1J Station 404+78 Offset 24.00ft Lt CL Ground Surface Elev. 96.60 ft

Table with columns for Depth (ft), Soil Description, and Penetration Test Results (D, B, U, M). Includes soil types like SILTY CLAY LOAM, SANDY LOAM, and LIMESTONE.

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation

SOIL BORING LOG

Date 8/4/14

ROUTE FAP 646 DESCRIPTION P92-068-11 IL 40 culvert, .25 miles N. of Patterson Road LOGGED BY W. Garza

SECTION 5T-R LOCATION Wysox Twp. - 4SW, SEC. , TWP. 23N, RNG. 6E

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

STRUCT. NO. 008-C019 Station 380+38

BORING NO. B-1K Station 380+50 Offset 29.00ft Rt CL Ground Surface Elev. 95.70 ft

Table with columns for Depth (ft), Soil Description, and Penetration Test Results (D, B, U, M). Includes soil types like SILTY CLAY LOAM, SANDY LOAM, and LIMESTONE.

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

BBS, from 137 (Rev. 8-99)

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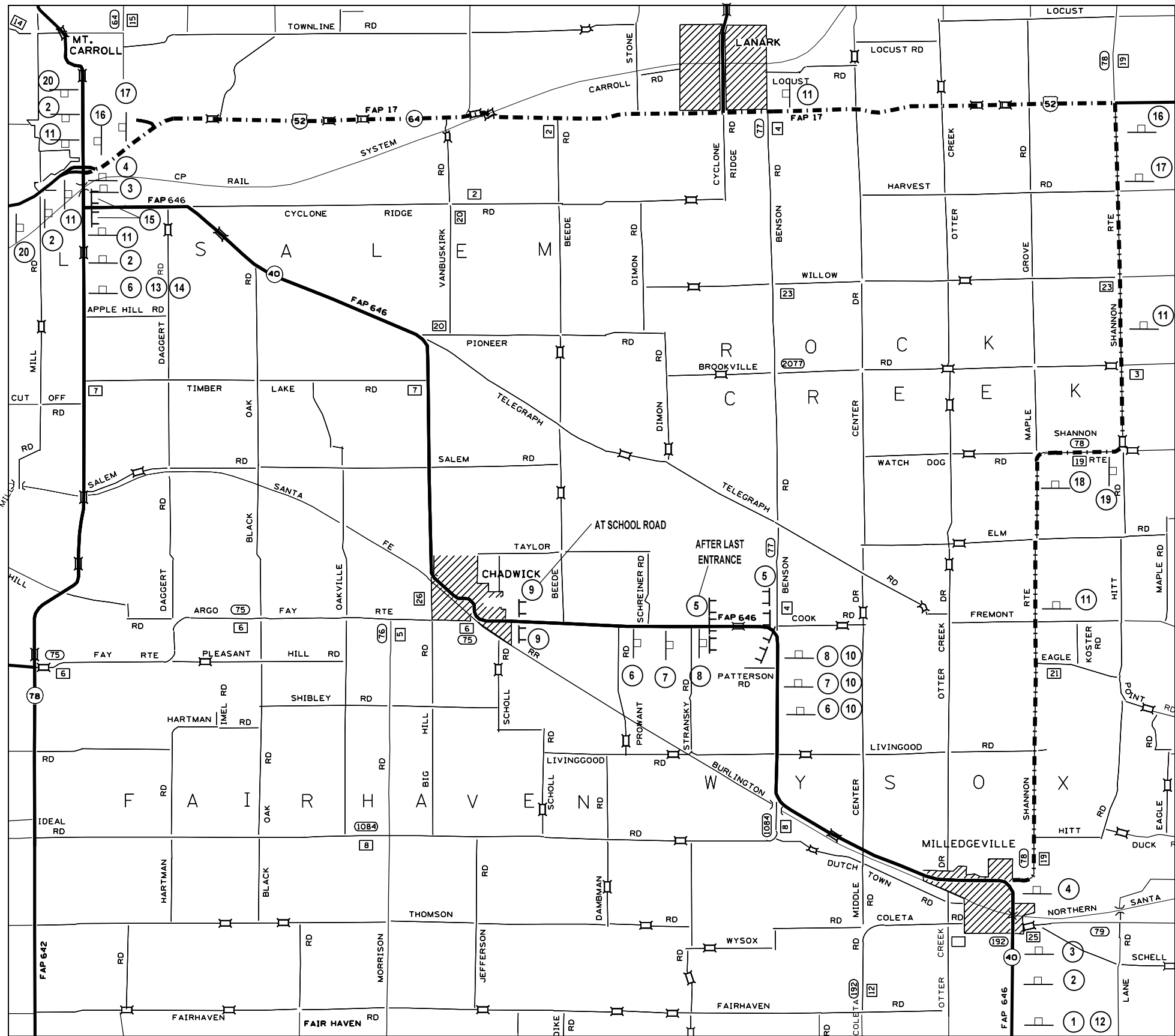
Table with columns for USER NAME, DESIGNED, REVISIONS, CHECKED, DATE.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns for BORING LOGS, SCALE, SHEET OF SHEETS, STA. TO STA.

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 64L08, ILLINOIS FED. AID PROJECT

ROAD CLOSURE DETAIL



- 1 ROAD CLOSED AHEAD
W20-3101-48
6 MILES
- 2 DETOUR AHEAD
W20-21F01
- 3 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
M5-1 (RIGHT)
- 4 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
M6-1
- 5 ROAD CLOSED
R11-2-4830
- 6 ROAD CLOSED AHEAD
W20-31F01
- 7 ROAD CLOSED
1000 FEET
W20-3101-48
- 8 BARRICADE AHEAD
W21-1100101-48
- 9 ROAD CLOSED TO THRU TRAFFIC
R11-4
- 10 M6-1
- 11 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
M6-3
- 12 NO ACCESS TO CHADWICK
- 13 10 MILES
- 14 OPEN TO CHADWICK
- 15 ROAD CLOSED 10 MILES AHEAD
LOCAL TRAFFIC ONLY
- 16 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
M6-1
- 17 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
M5-1 (LEFT)
21X15
- 18 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
- 19 DETOUR
ILLINOIS 40
M4-81F01
MI-1100
- 20 ROAD CLOSED AHEAD
IL 40

--- DETOUR ROUTE

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 PLOT DATE = Jan-25-2019 08:41:52 AM

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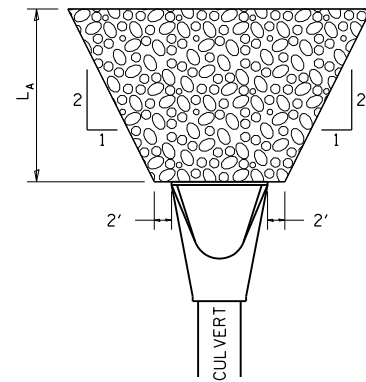
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROAD CLOSURE DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	21
CONTRACT NO. 64L08				
		ILLINOIS	FED. AID PROJECT	

RIPRAP AT END SECTIONS

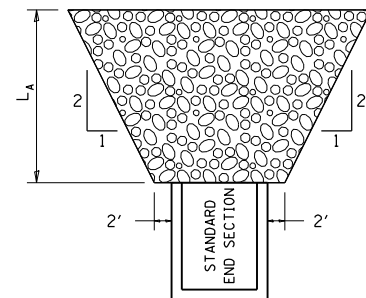


FLARED END SECTION

L_A = APRON LENGTH (ft)

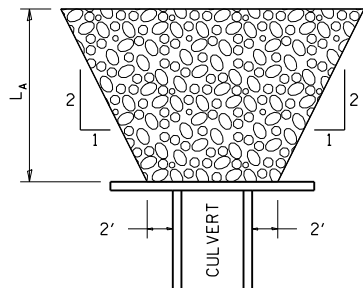
IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

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

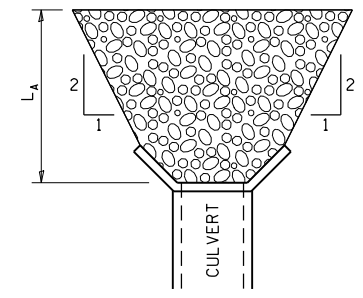


STANDARD END SECTION

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



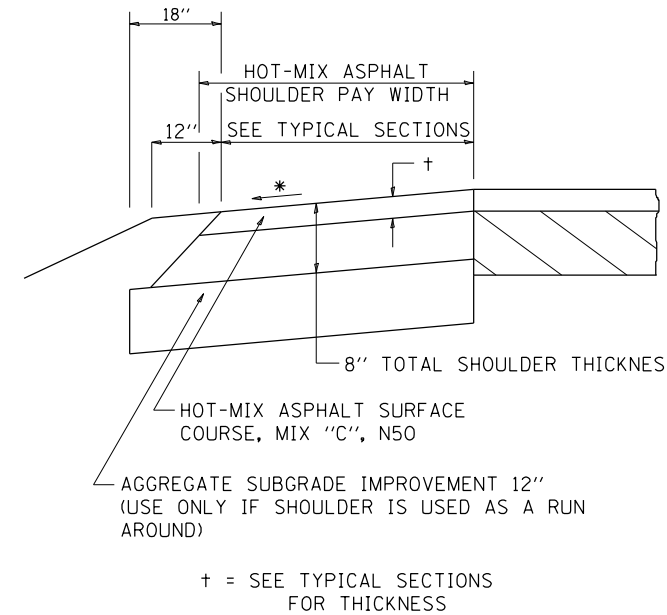
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

RIPRAP AT END SECTIONS 19.4

HOT-MIX ASPHALT SHOULDER



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.

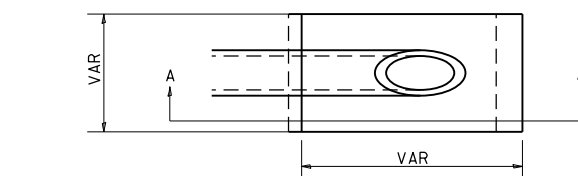
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

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

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

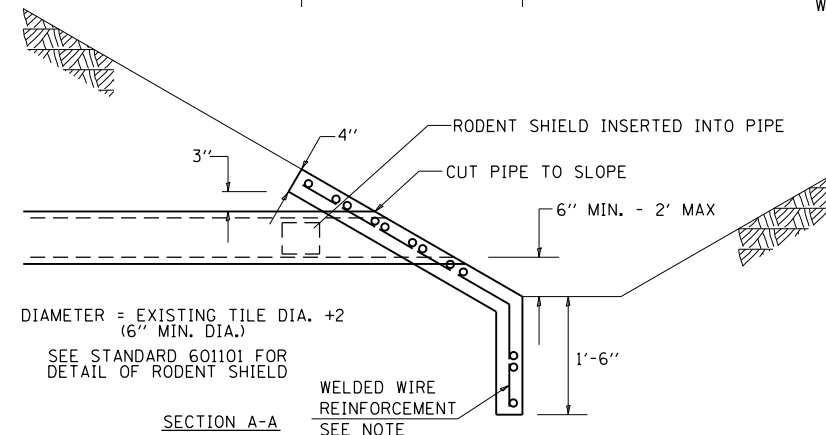
HOT-MIX ASPHALT SHOULDER 22.4

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS



NOTES

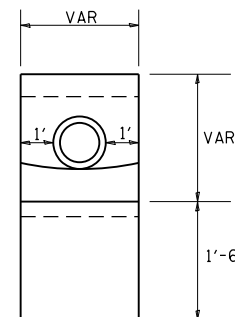
1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WELDED WIRE REINFORCEMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH OF THE SIZE SPECIFIED. WELDED WIRE REINFORCEMENT TO WEIGH NOT LESS THAN 58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



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

SECTION A-A

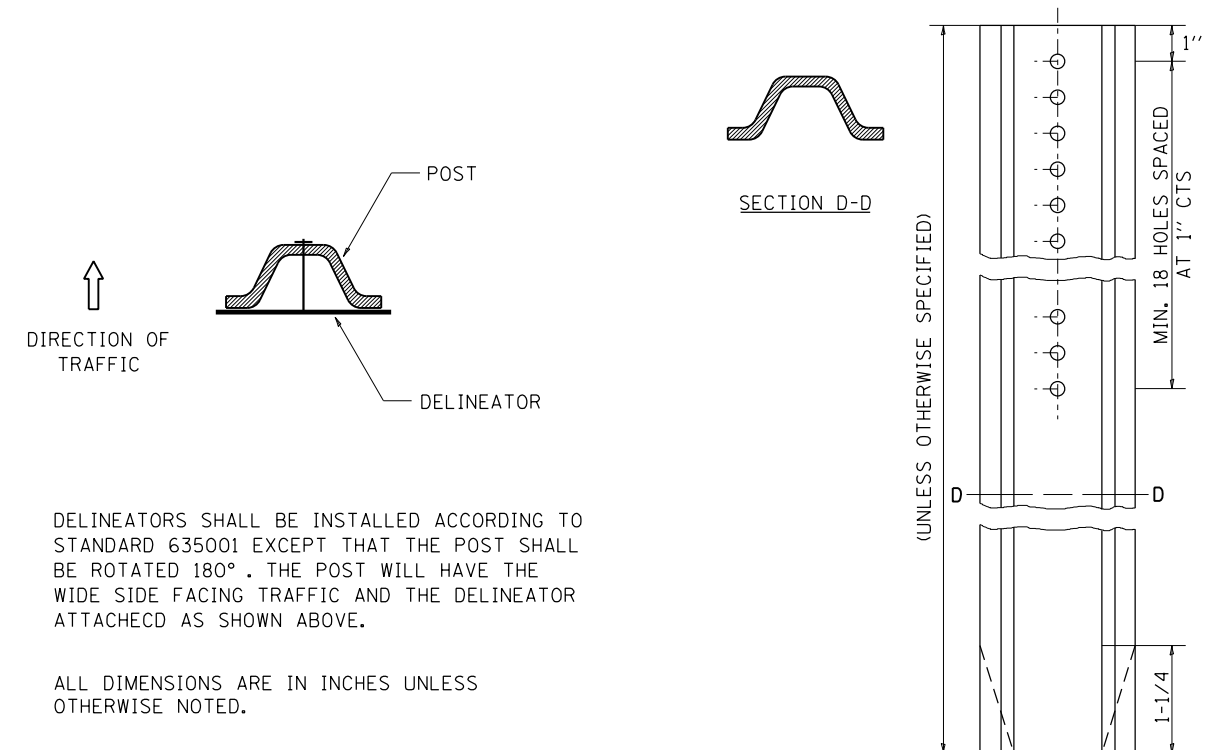
WELDED WIRE
REINFORCEMENT
SEE NOTE



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

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 28.4

DELINEATOR AND POST ORIENTATION



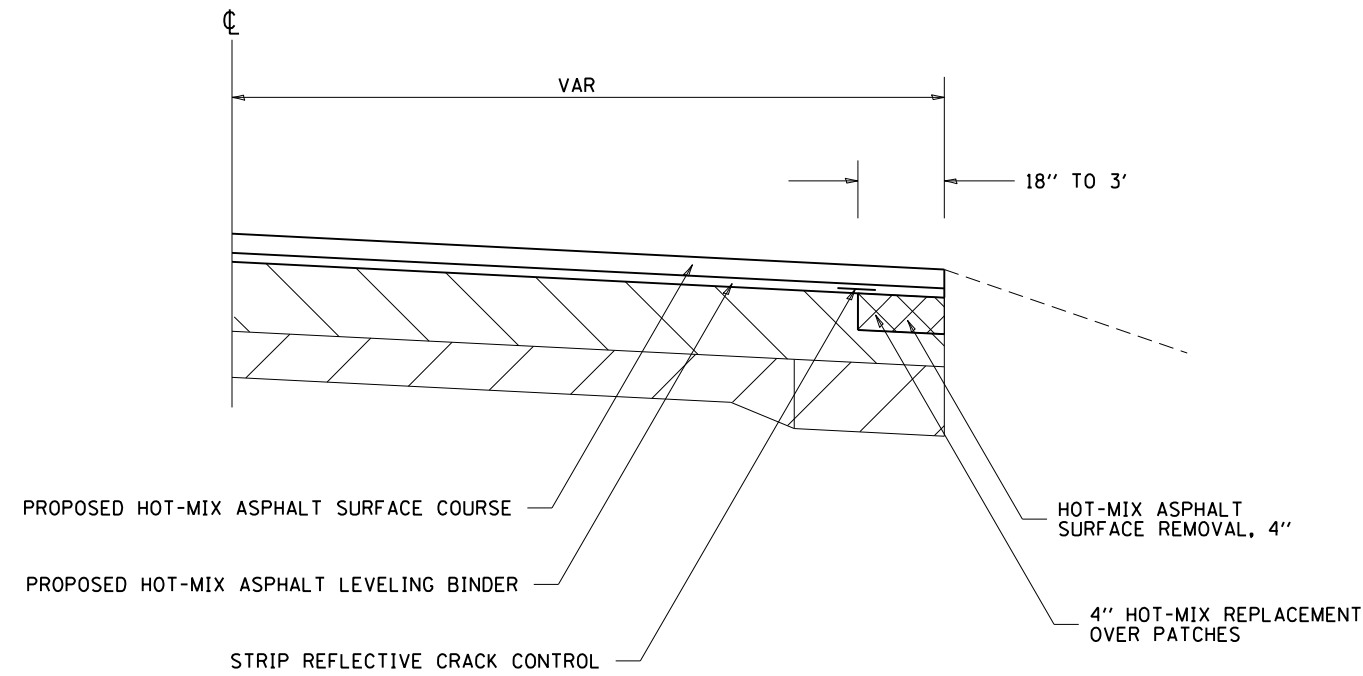
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			646	5CR	CARROLL	49	22
REVISED -			CONTRACT NO. 64L08				
REVISED -	SCALE: 100,000' = 1" SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DELINEATOR AND POST ORIENTATION 37.4

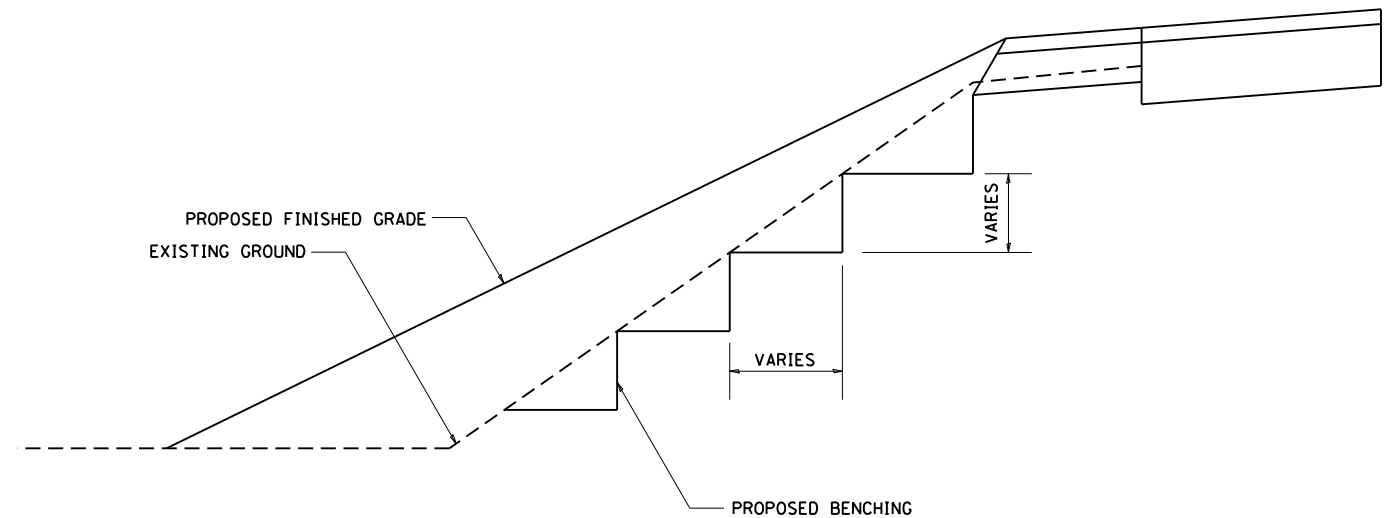
EDGE OF PAVEMENT REPAIR



REVISED - 7-30-18
4-04-11

EDGE OF PAVEMENT REPAIR 38.4

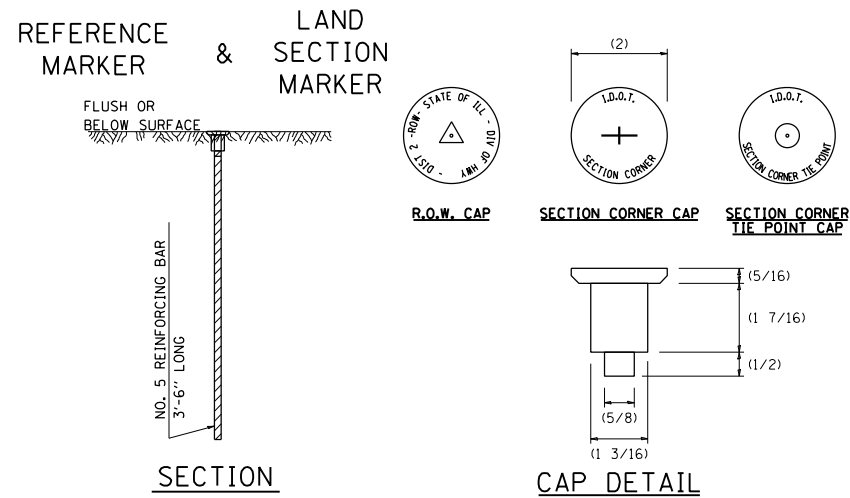
TYPICAL BENCHING ON EXISTING EMBANKMENT



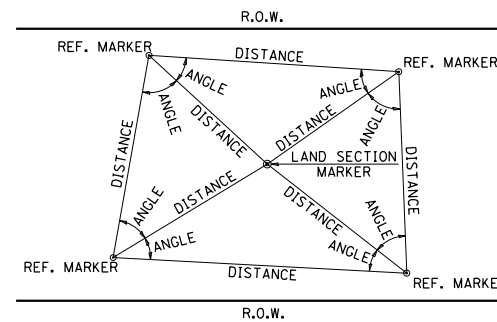
REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 28" OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL SO AS NOT TO BE DISTURBED BY MOWING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 3" BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL BE REPLACED BY CORE DRILL AND RESETTING PIN.

ALUMINUM CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY THE SURVEYOR WHO IS RESPONSIBLE FOR MONUMENTING CORNERS.

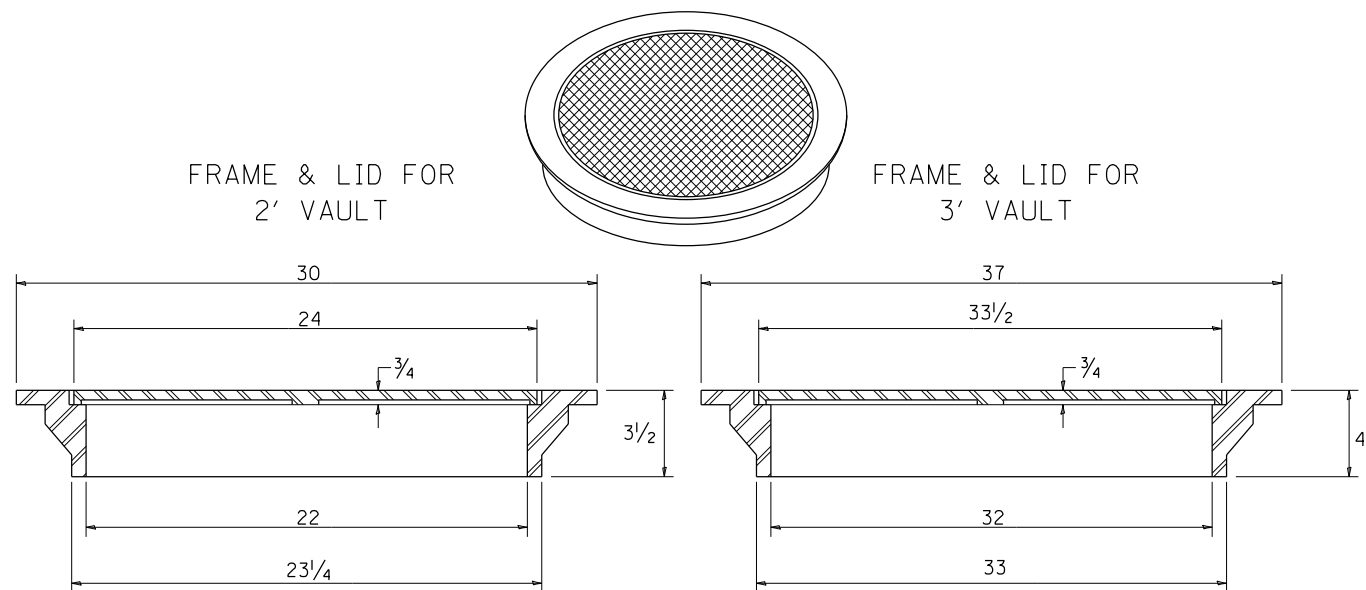
REVISED - 3-05-10

LAND SECTION & REFERENCE MARKERS 63.4

REVISED -	REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	REVISED -		646	5CR	CARROLL	49	23
REVISED -	REVISED -		CONTRACT NO. 64L08				
REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

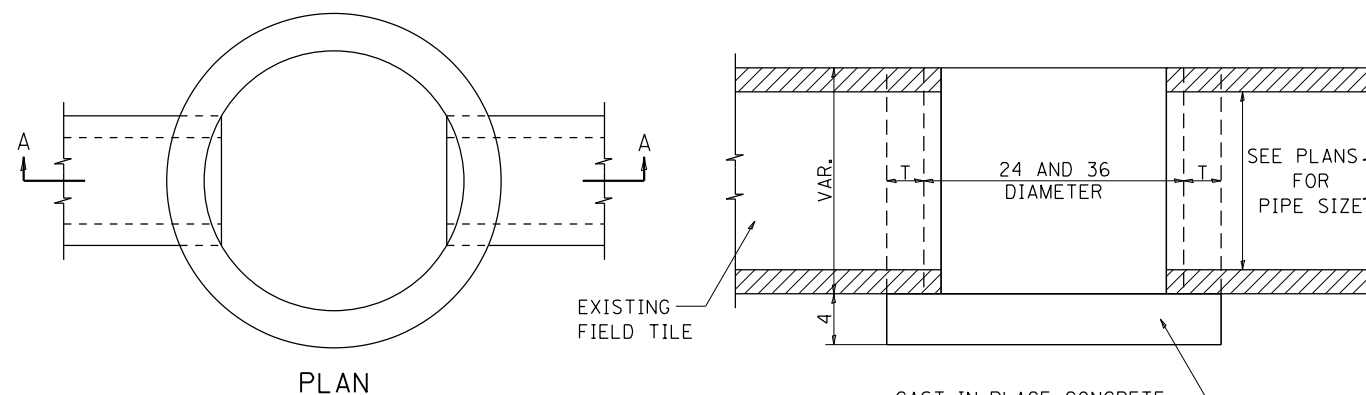
PLOT DATE = Jan-25-2019 08:44:22 AM

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.



TOTAL WEIGHT: 146 LBS.

TOTAL WEIGHT: 280 LBS.



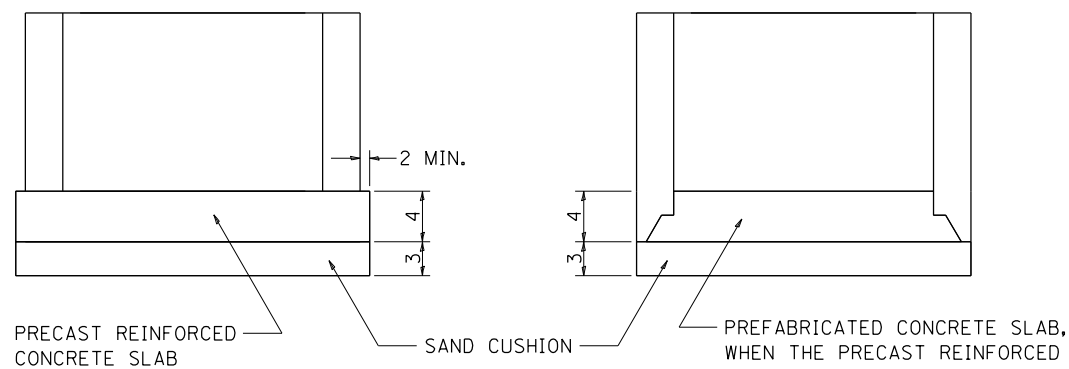
GENERAL NOTES:

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

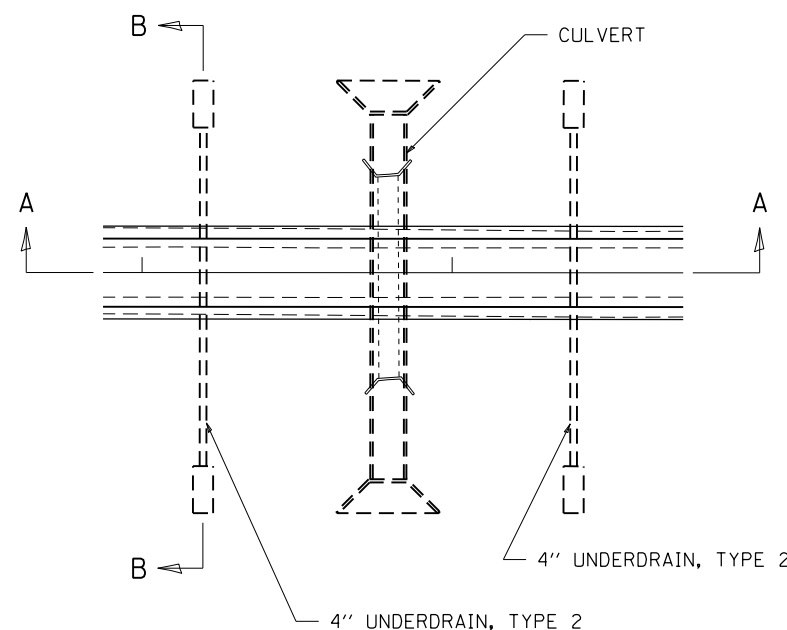


ALTERNATE METHODS

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

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

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:

IN SAG CONDITIONS INSTALL PIPE UNDERDRAINS, TYPE 2, 4" ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2%
INSTALL PIPE UNDERDRAINS, TYPE 2, 4"
ON THE HIGH SIDE OF THE CULVERT.

THIS WORK SHALL BE COMPLETED ACCORDING
TO SECTION 601 OF THE STANDARD
SPECIFICATIONS.

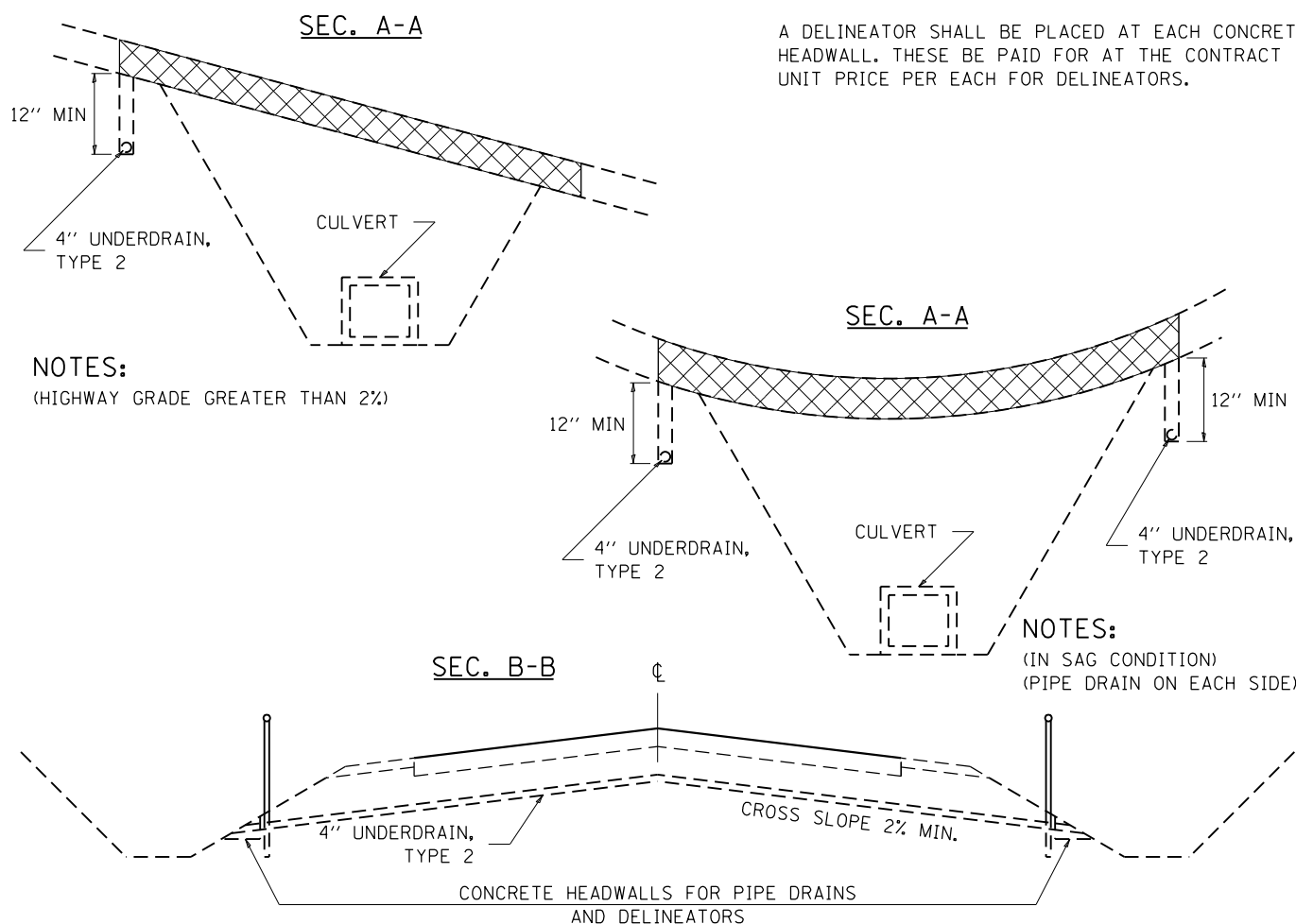
THE UNDERDRAIN SHALL EXTEND UNTIL
INTERSECTING WITH THE SIDE SLOPES. THE PIPES
SHALL DRAIN INTO CONCRETE HEADWALLS. (SEE
ARTICLE 601.05 OF THE STANDARD SPECIFICATIONS
AND HIGHWAY STANDARD 601101).

THE UNDERDRAIN SHALL BE A MINIMUM OF
12" BELOW THE EXISTING PAVEMENT.

PIPE UNDERDRAINS WILL BE PAID FOR AT THE
CONTRACT UNIT PRICE PER FOOT FOR PIPE
UNDERDRAINS, TYPE 2, 4".

CONCRETE HEADWALLS WILL BE PAID FOR AT THE
CONTRACT UNIT PRICE PER EACH FOR CONCRETE
HEADWALLS FOR PIPE DRAINS.

A DELINEATOR SHALL BE PLACED AT EACH CONCRETE
HEADWALL. THESE BE PAID FOR AT THE CONTRACT
UNIT PRICE PER EACH FOR DELINEATORS.



NOTES:

(HIGHWAY GRADE GREATER THAN 2%)

NOTES:

(IN SAG CONDITION)
(PIPE DRAIN ON EACH SIDE)

REVISION	DATE	DESCRIPTION	F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED	8-03-17						
REVISED	7-13-16						
REVISED	1-05-16						
REVISED	6-27-14						

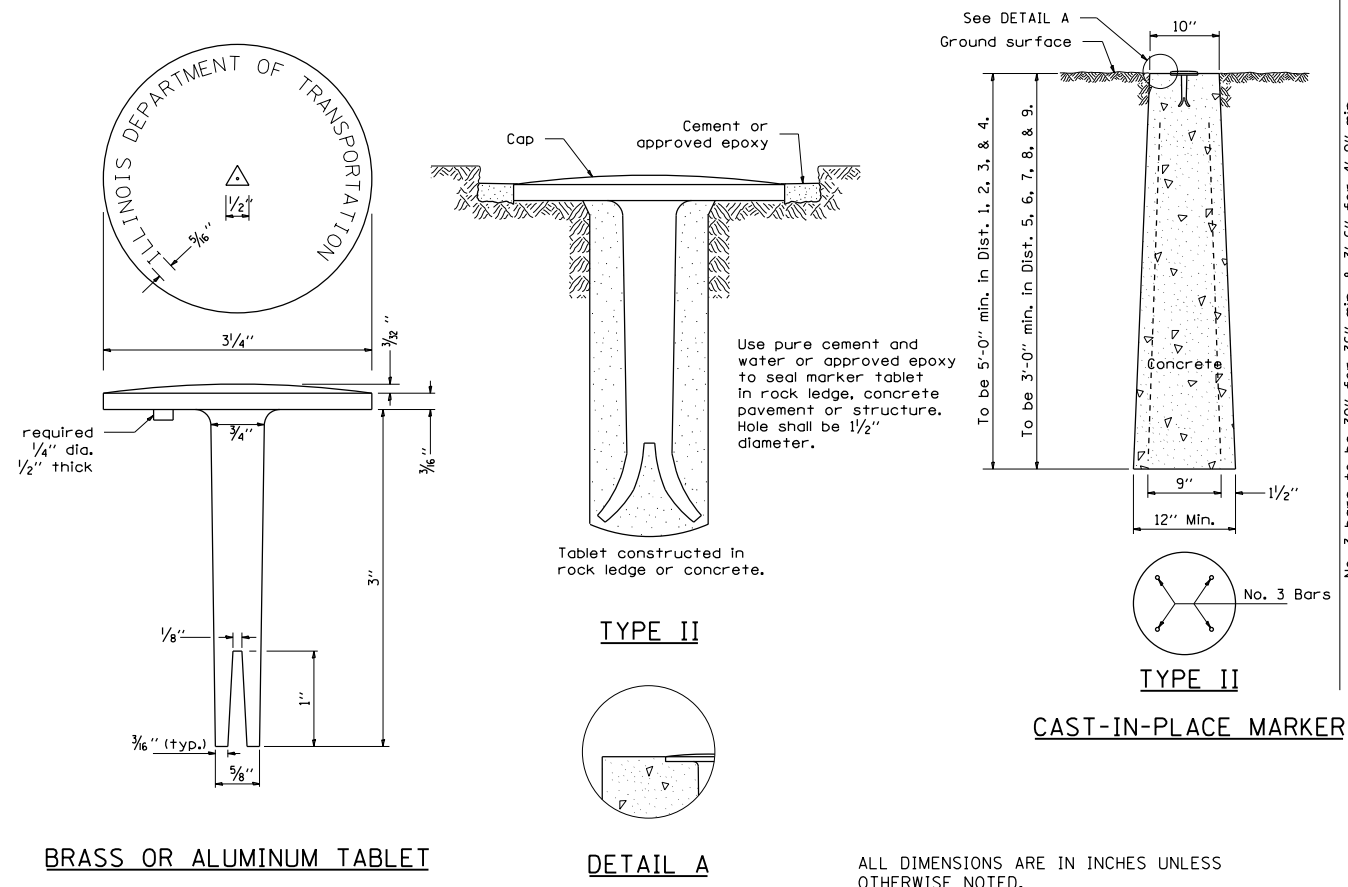
SCALE: 1/8" = 1'-0" SHEET NO. OF SHEETS STA. TO STA.

REGION 2 / DISTRICT 2 STANDARD

CONTRACT NO.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PERMANENT SURVEY MARKERS, TYPE II

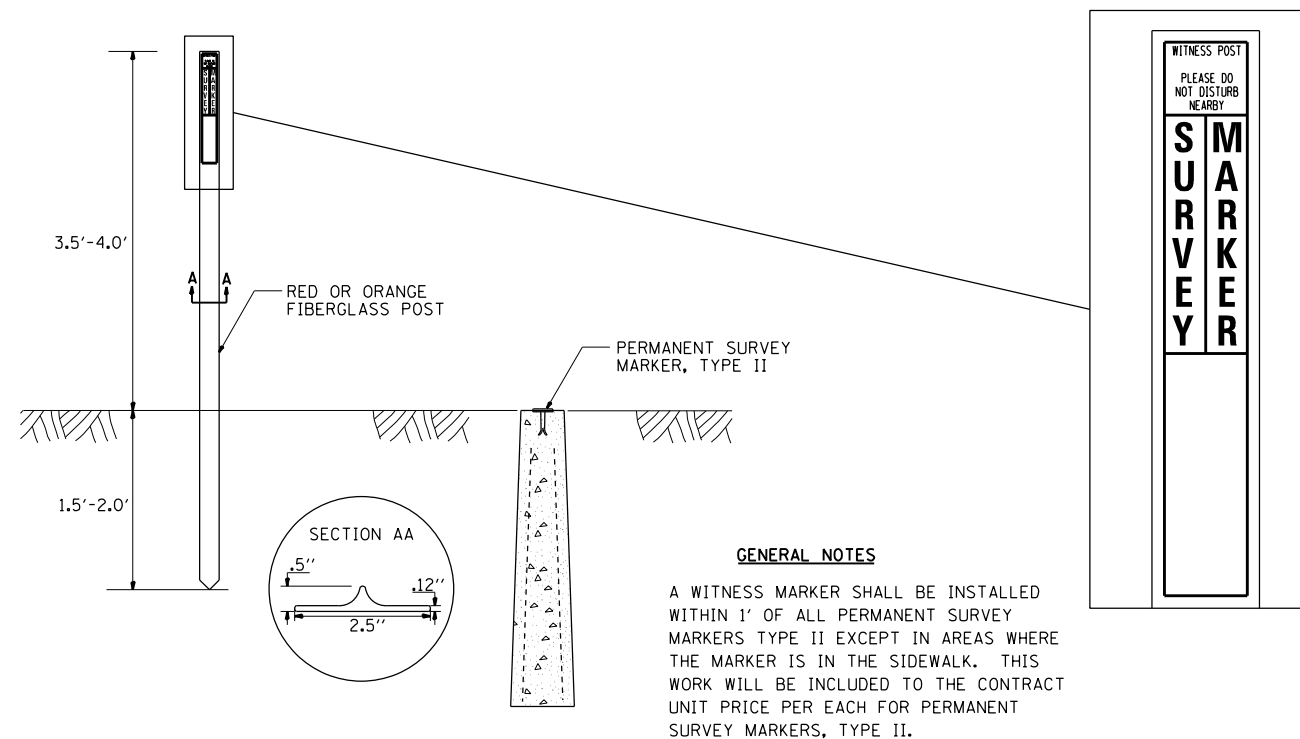


BRASS OR ALUMINUM TABLET

DETAIL A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

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

PLOT DATE = Jan-25-2019 08:44:52 AM

REVISED -	REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	REVISED -		646	5CR	CARROLL	49	25
REVISED -	REVISED -		CONTRACT NO. 64L08				
REVISED -	REVISED -		SCALE: 100,000' / 1" SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

BOX CULVERT END SECTIONS

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

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

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

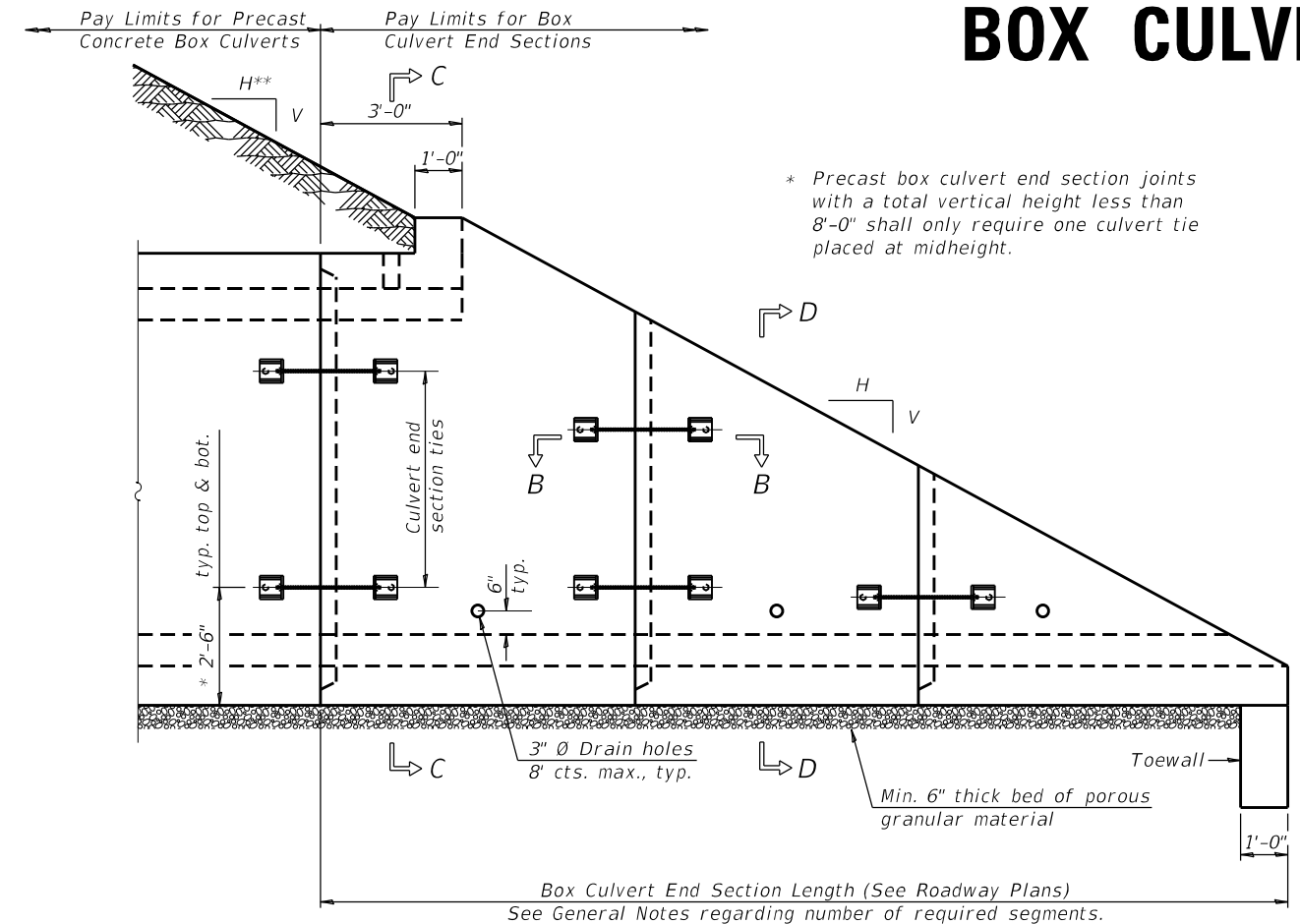
1" \emptyset anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

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

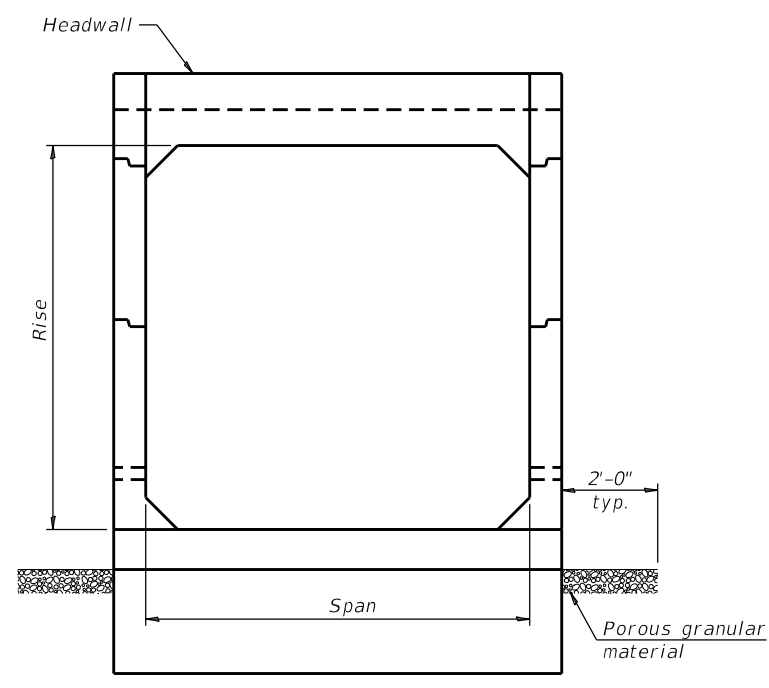
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

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

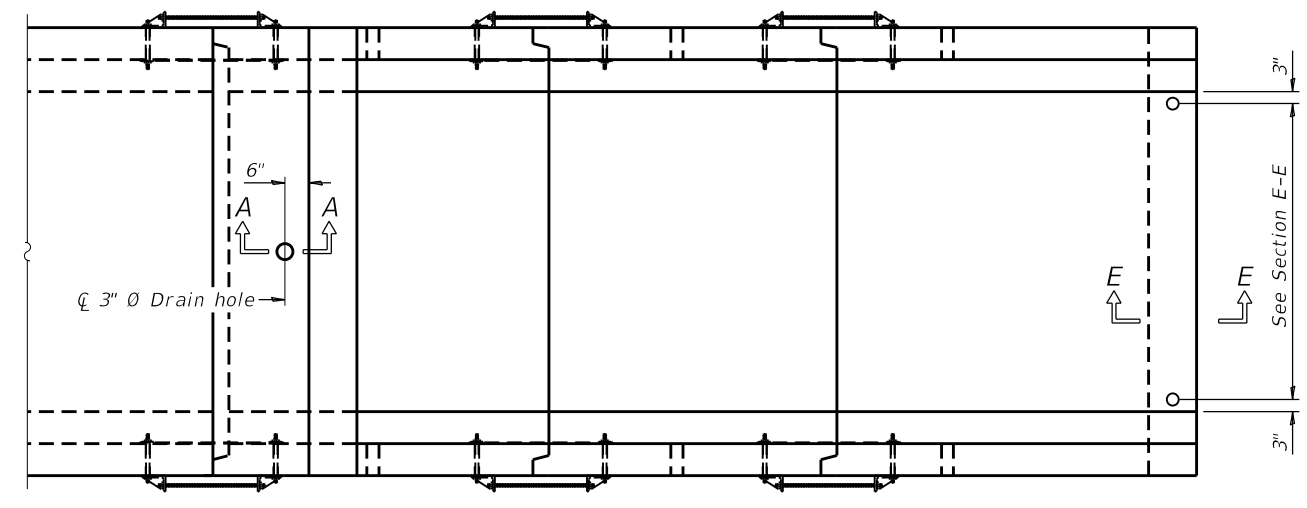
For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



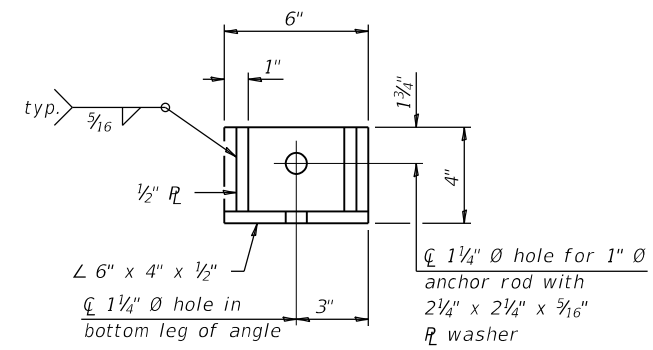
ELEVATION



END VIEW



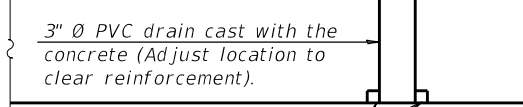
PLAN



RESTRAINT ANGLE DETAIL

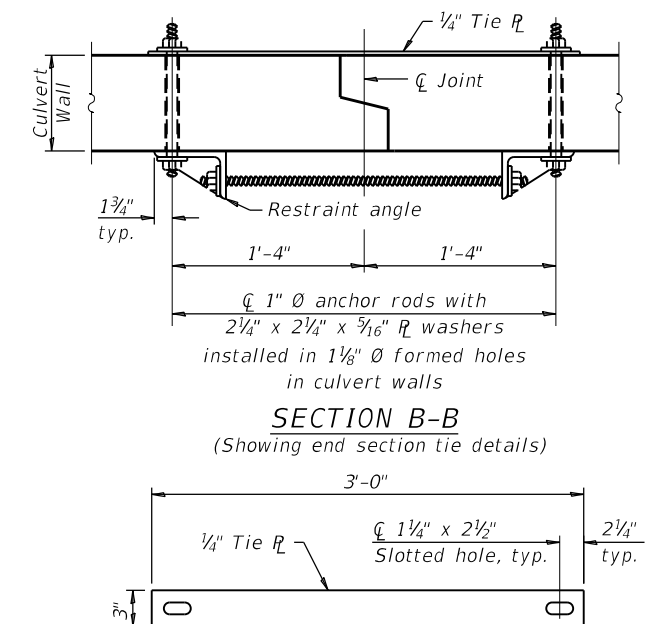
12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.



SECTION A-A

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.) (Sheet 1 of 2)



TIE PLATE DETAIL

SCB-TES

2-17-2017

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISOR -
p:\11\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64L\084EBID\Development\Studies & Plans\Development\CA\sheet\05-18-18\08-sht-details.dgn		DATE -	DATE -
		CHECKED -	REVISOR -
		DATE -	DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	26
CONTRACT NO. 64L08				

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:

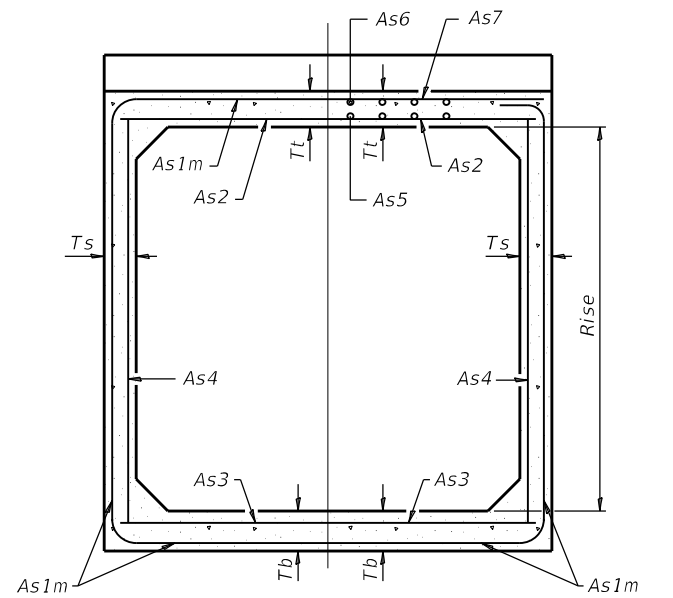
Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for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

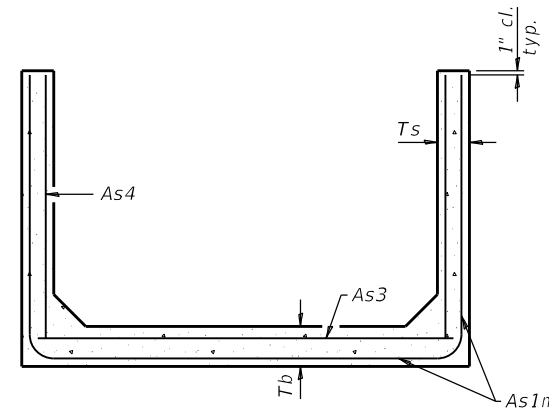
l₁ DIMENSION

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

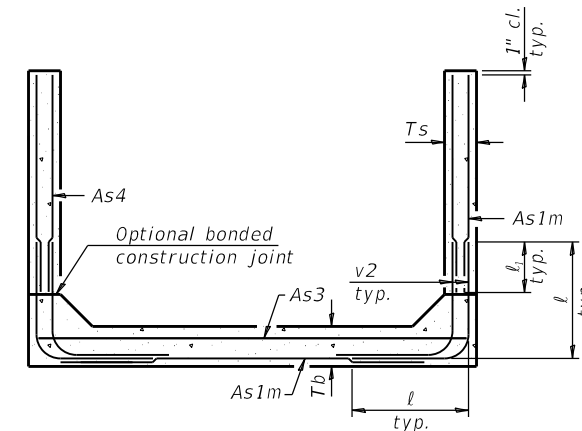


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

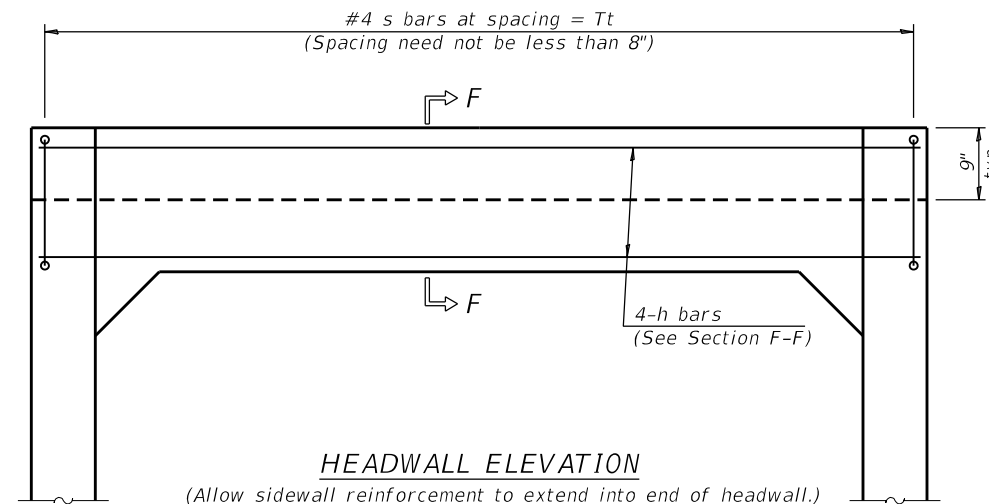
SECTION C-C



SECTION D-D

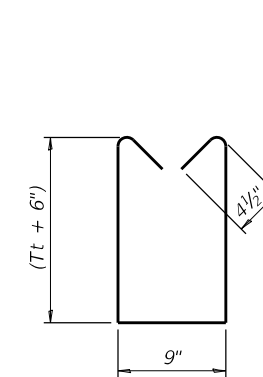


ALTERNATE SECTION D-D

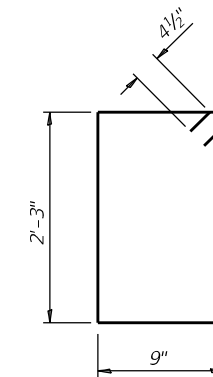


HEADWALL ELEVATION

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



BAR s



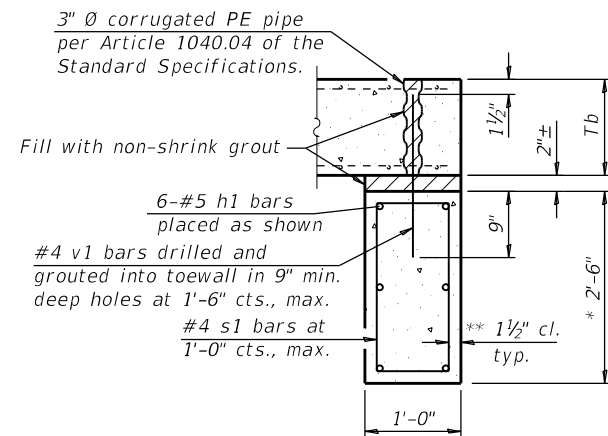
BAR s1

TOEWALL CONSTRUCTION SEQUENCE

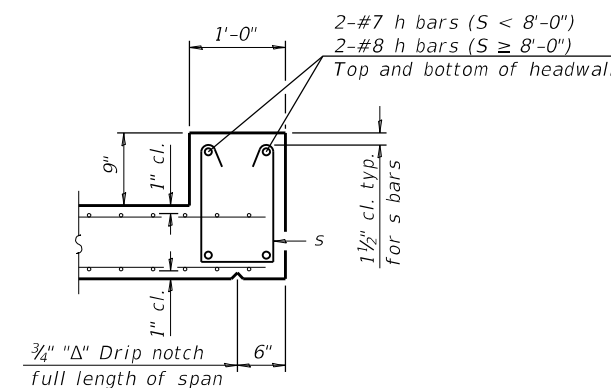
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance 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 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

SCB-TES

2-17-2017

(Sheet 2 of 2)

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISIONS - 1-10-18
PROJECT =	PROJECT =	CHECKED -	REVISIONS - 5-09-14
PLOT SCALE = 100.0000' / in.	DATE =	DATE =	REVISIONS -
PLOT DATE = Jan-25-2019 08:45:23 AM			

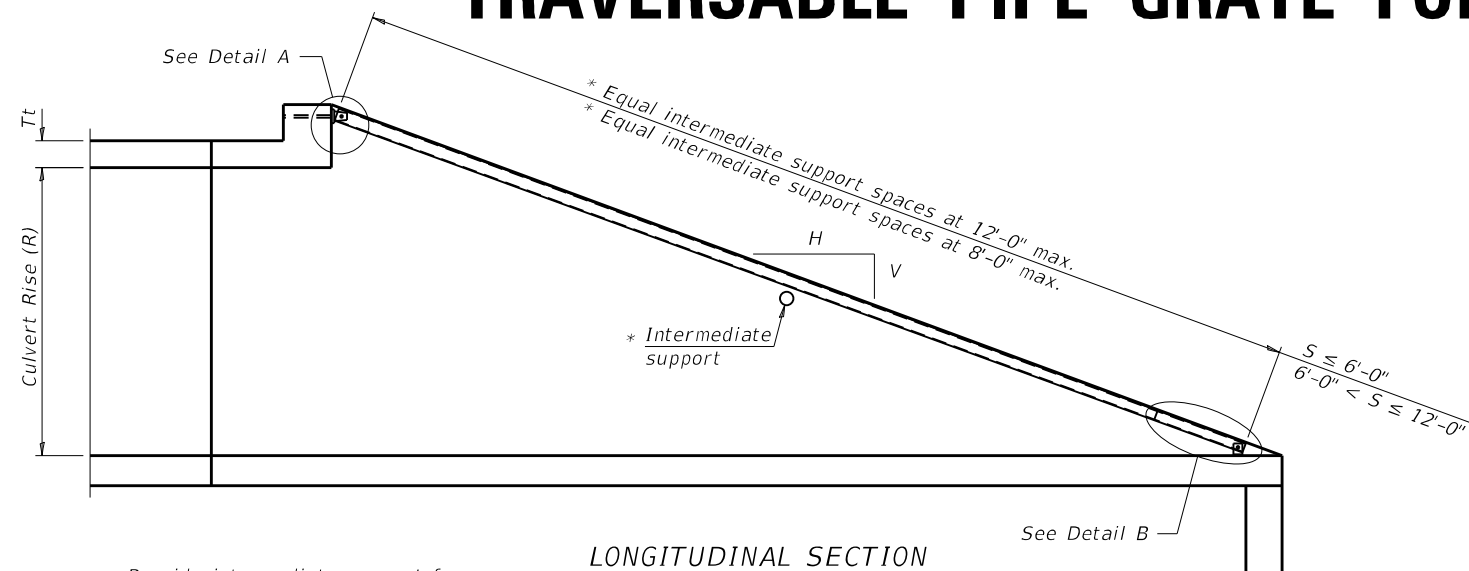
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

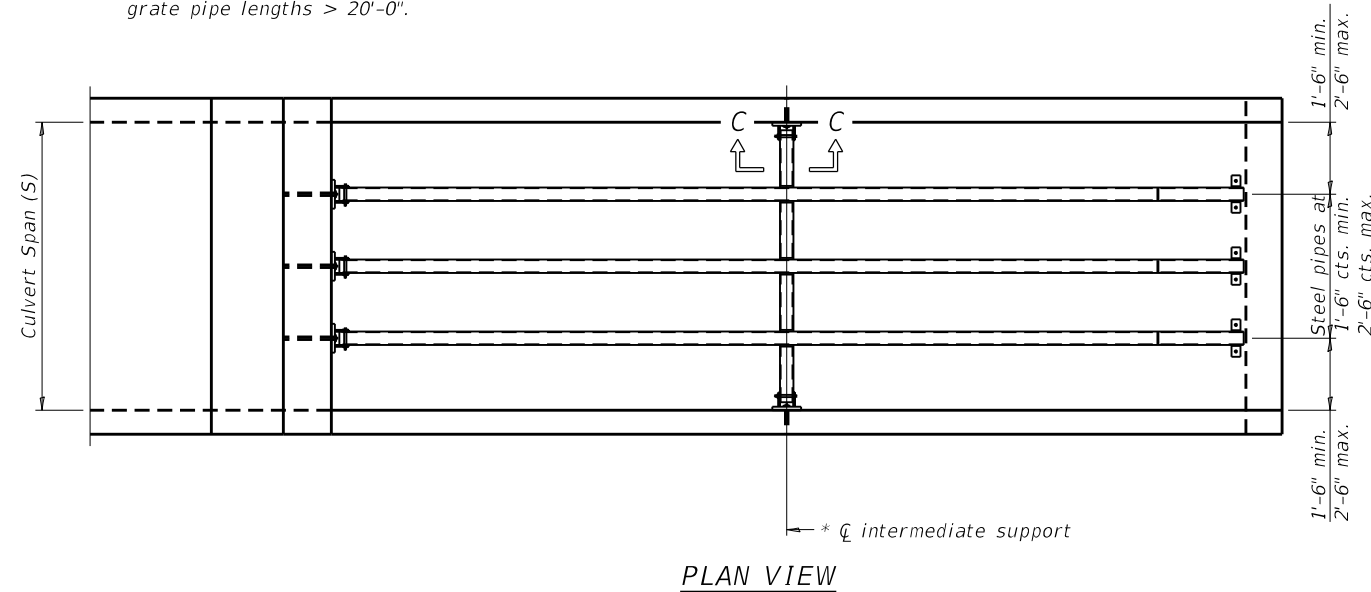
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	27
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS

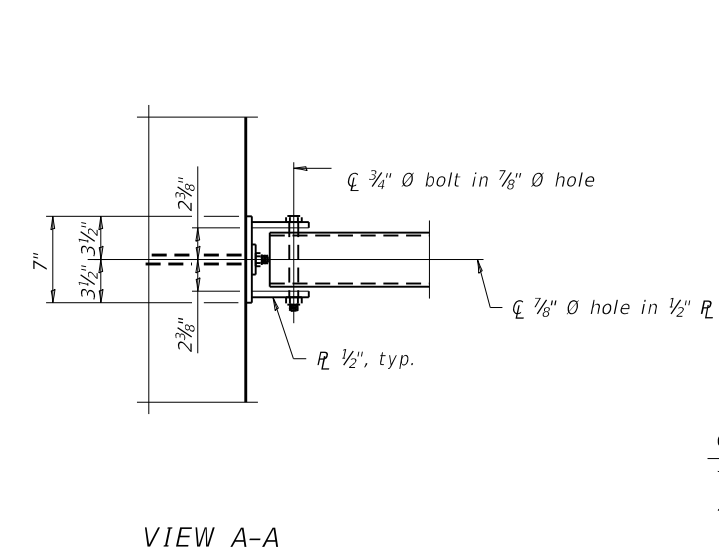


LONGITUDINAL SECTION

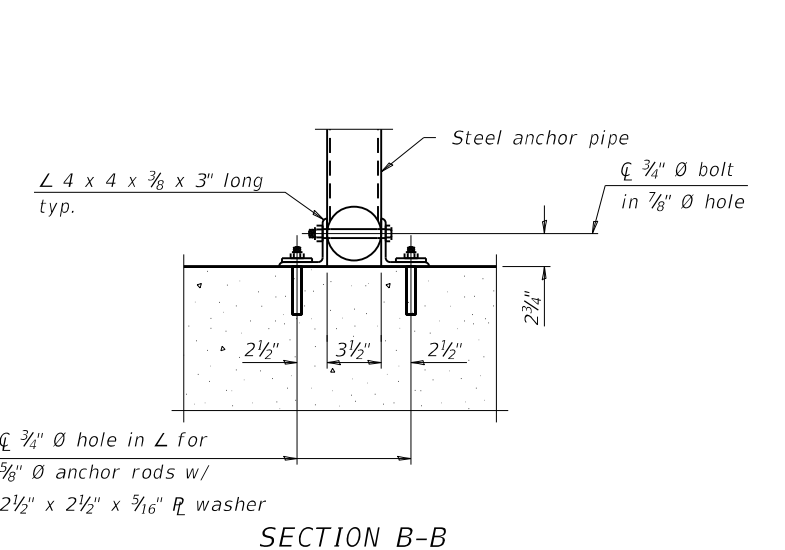
* Provide intermediate support for grate pipe lengths > 20'-0".



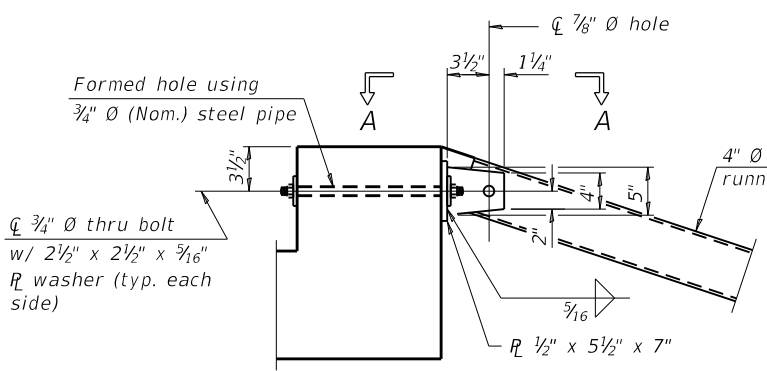
PLAN VIEW



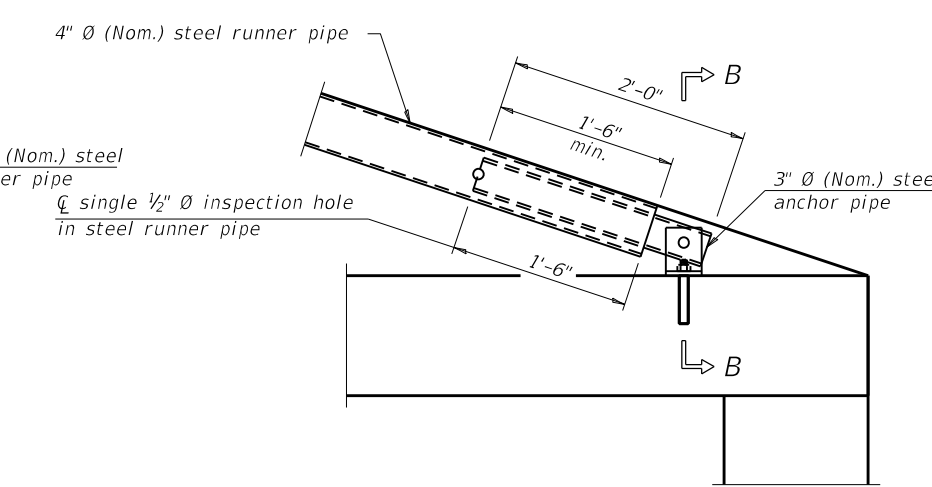
VIEW A-A



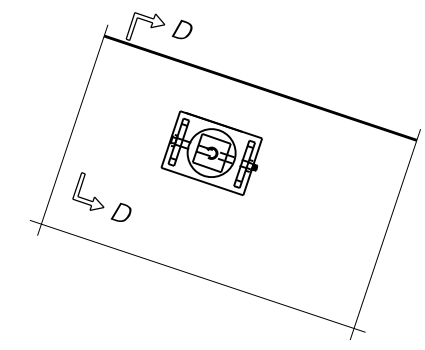
SECTION B-B



DETAIL A

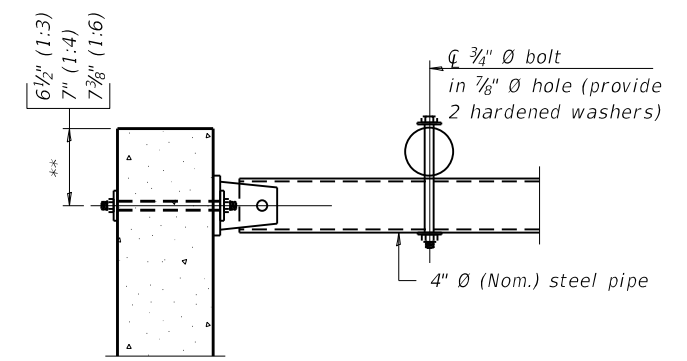


DETAIL B



VIEW C-C

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



SECTION D-D

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

(Sheet 1 of 2)

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE. = 646	SECTION = 5CR	COUNTY = CARROLL	TOTAL SHEETS = 49	SHEET NO. = 28	
DRAWN =					REVISIONS	SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 64L08			
PLOT SCALE = 100.0000' / in.					CHECKED -	REVISIONS	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT					
PLOT DATE = Jan-25-2019 08:45:40 AM					DATE -	REVISIONS						

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"

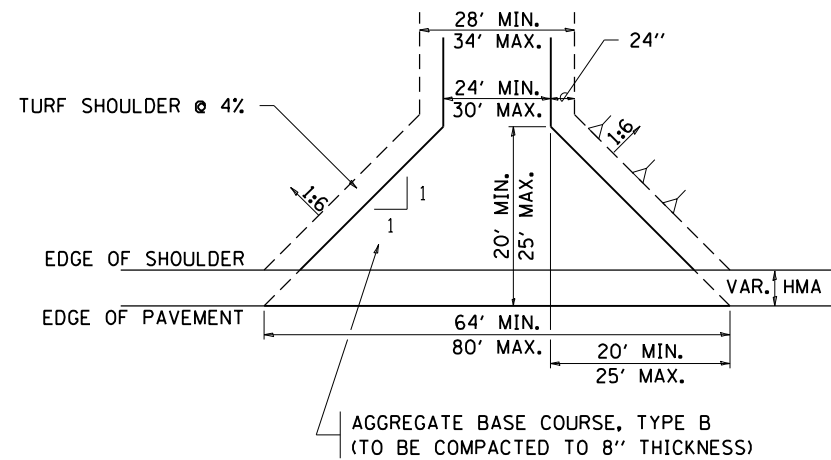
TPGBC-ZS

2-17-2017

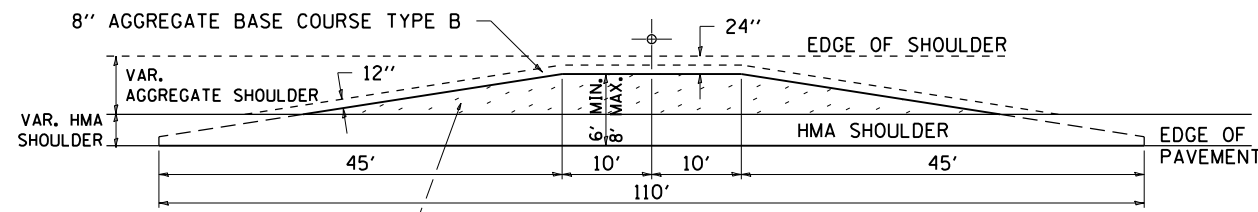
(Sheet 2 of 2)

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 1-10-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. = 646	SECTION = 5CR	COUNTY = CARROLL	TOTAL SHEETS = 49	SHEET NO. = 29	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	SCALE: _____			SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 64L08			
PLOT DATE = Jan-25-2019 08:45:56 AM	DATE -	REVISED -	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT								

HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS



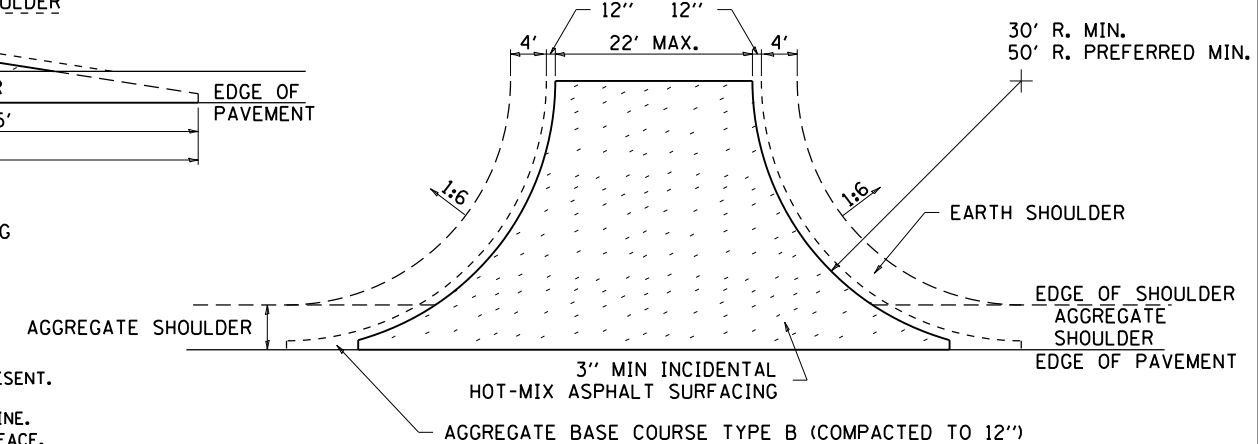
FIELD ENTRANCE



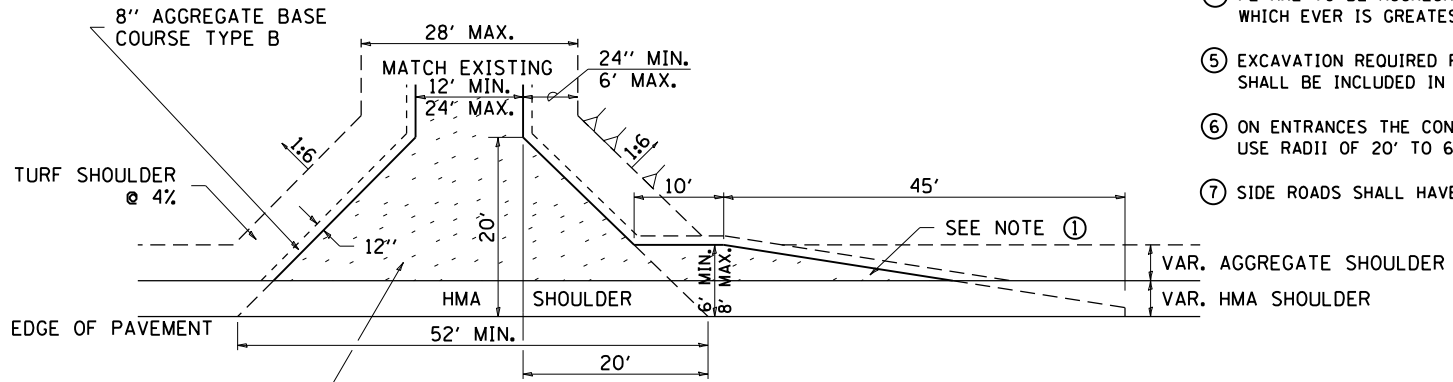
MAILBOX TURNOUT

NOTE

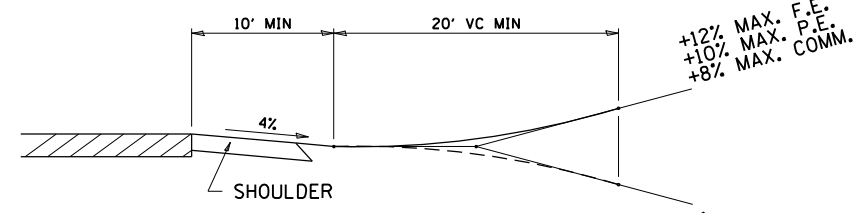
- ① TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ② ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ③ ALL PE & CE TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2 1/4" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
- ④ FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- ⑤ EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
- ⑥ ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20' TO 60'.
- ⑦ SIDE ROADS SHALL HAVE 3" INCIDENTAL PLACED IN TWO 1 1/2" LIFTS.



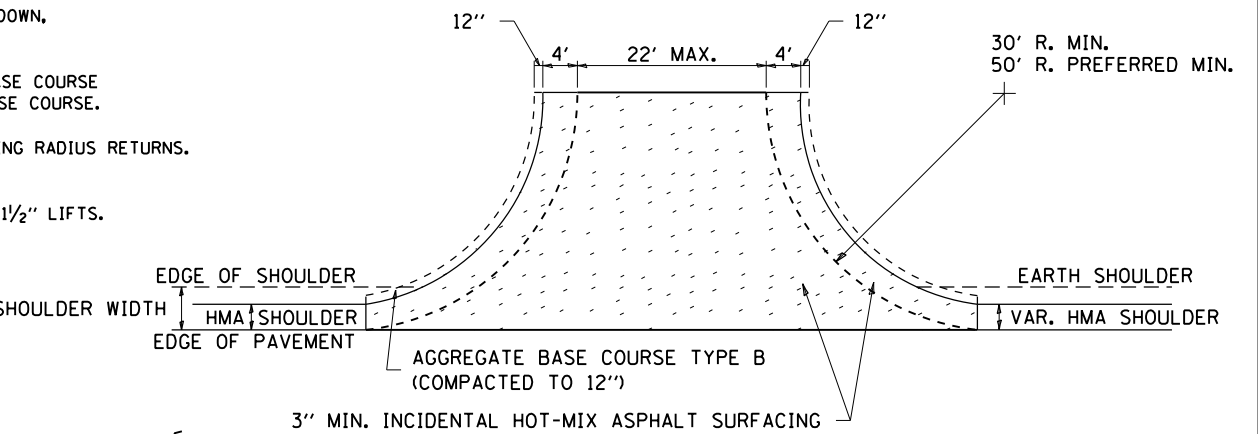
SIDE ROAD RETURN/EARTH SHOULDER



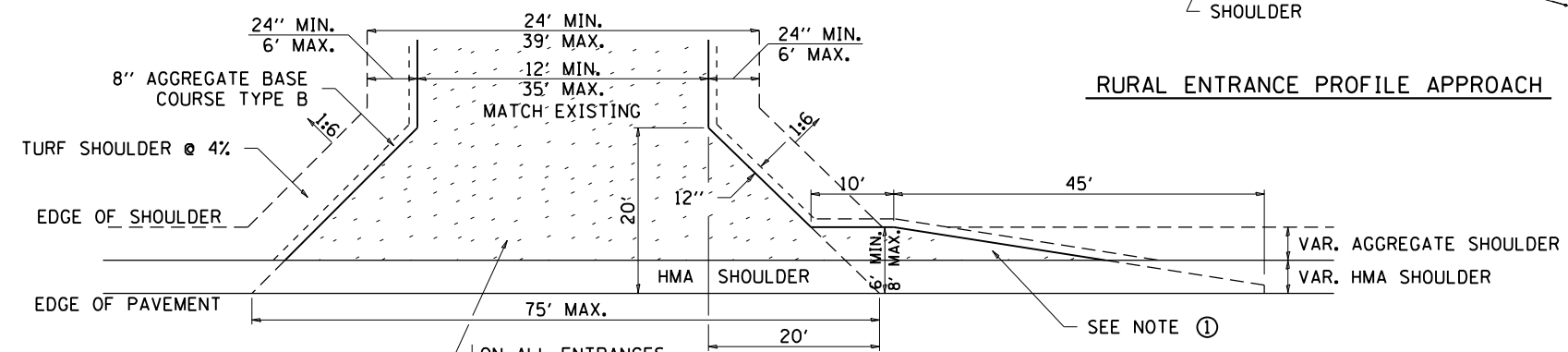
PRIVATE ENTRANCE



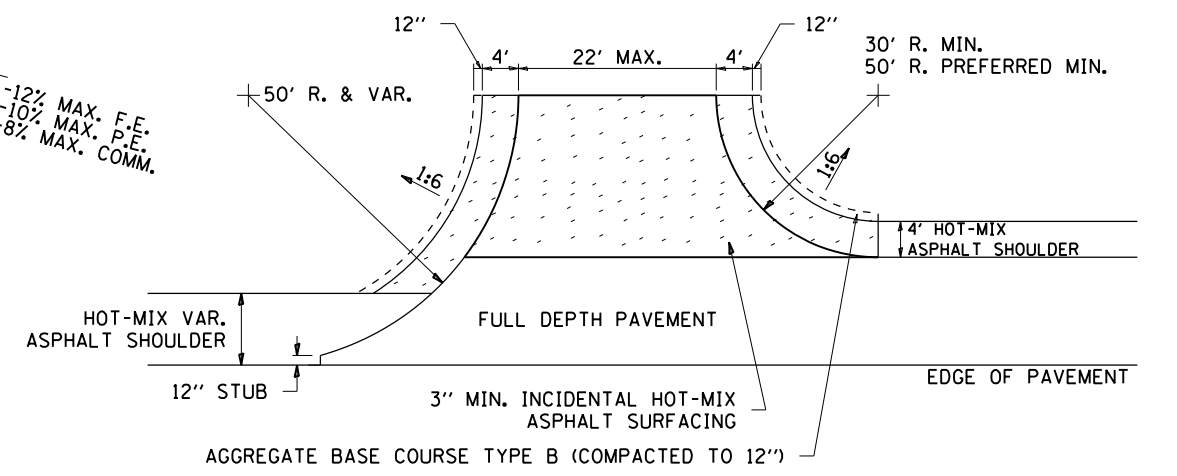
RURAL ENTRANCE PROFILE APPROACH



SIDE ROAD RETURN/HMA SHOULDER



COMMERCIAL ENTRANCE



SIDE ROAD RETURN WITH RIGHT TURN LANE

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 8-03-17
PROJECT =	PROJECT =	CHECKED -	REVISED - 6-27-14
PLOT SCALE = 100.0000' / in.	DATE =	DATE =	REVISED - 8-27-13

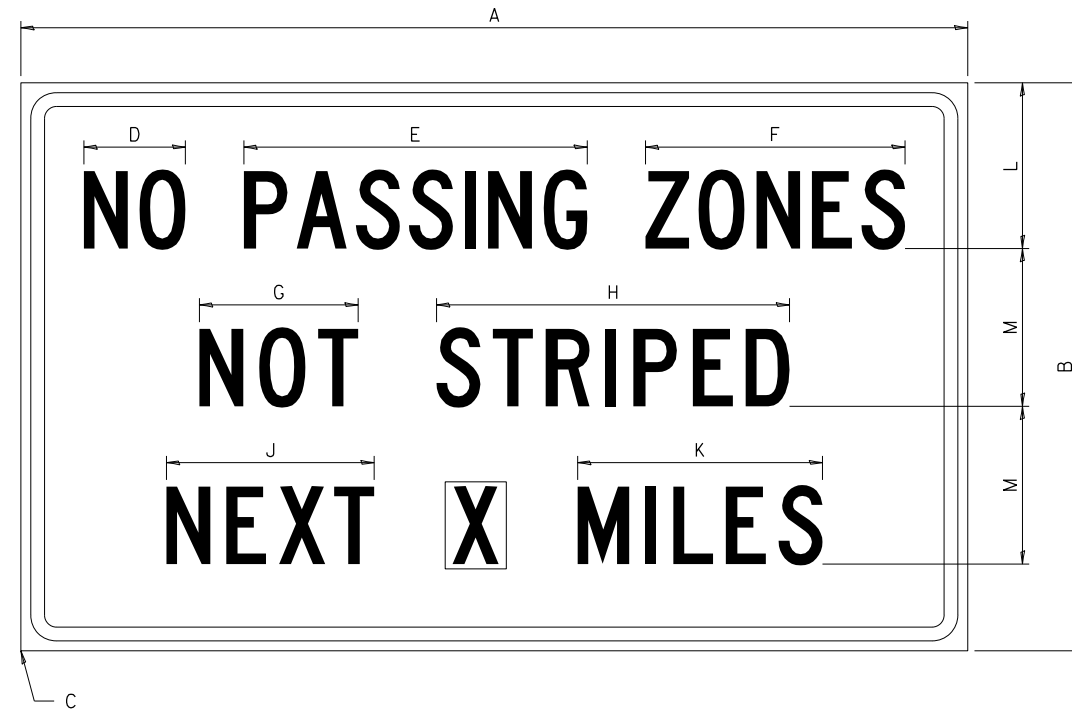
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	F.A. RTE. _____	SECTION _____	COUNTY _____	TOTAL SHEETS 49	SHEET NO. 30
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WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



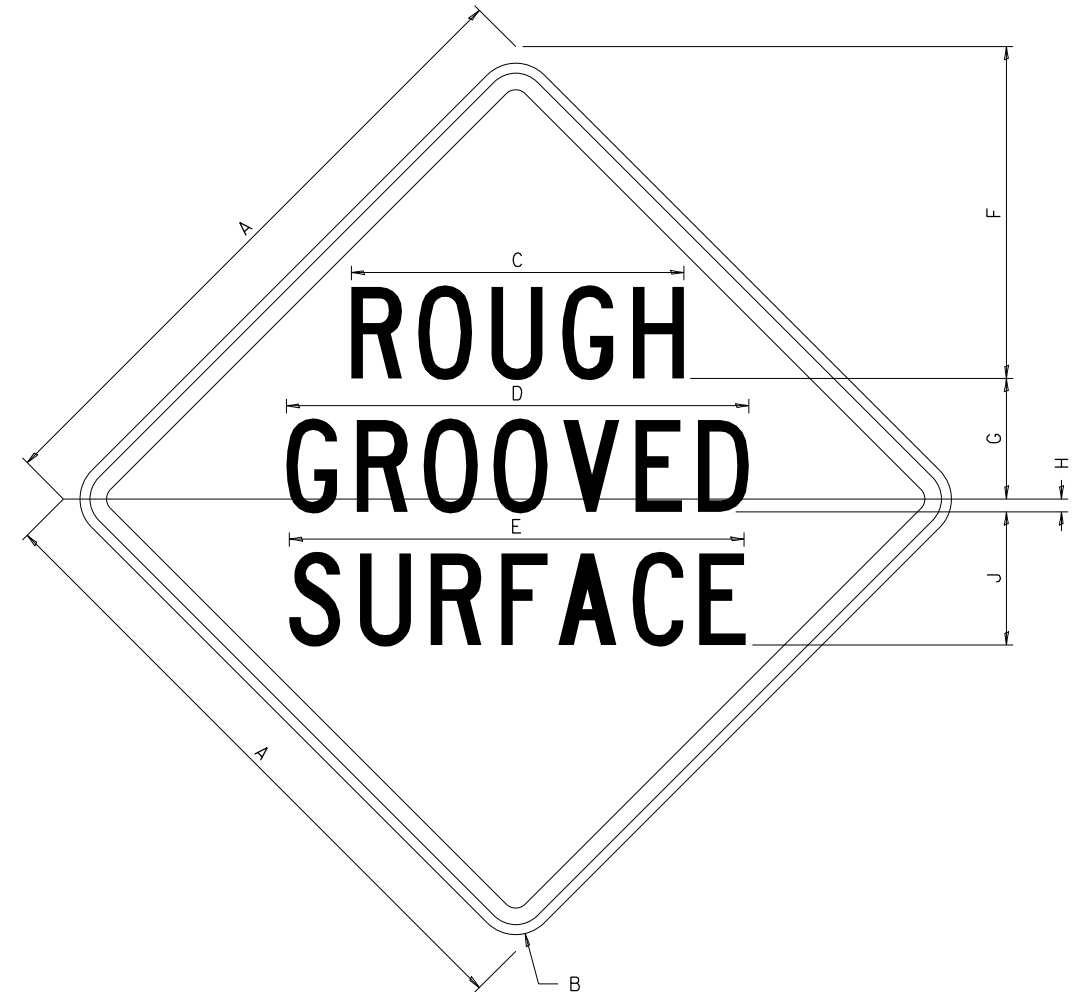
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

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 = fasslermj	DESIGNED -	REVISED - 3-02-16
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\Development\Drawings\02-64L08-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

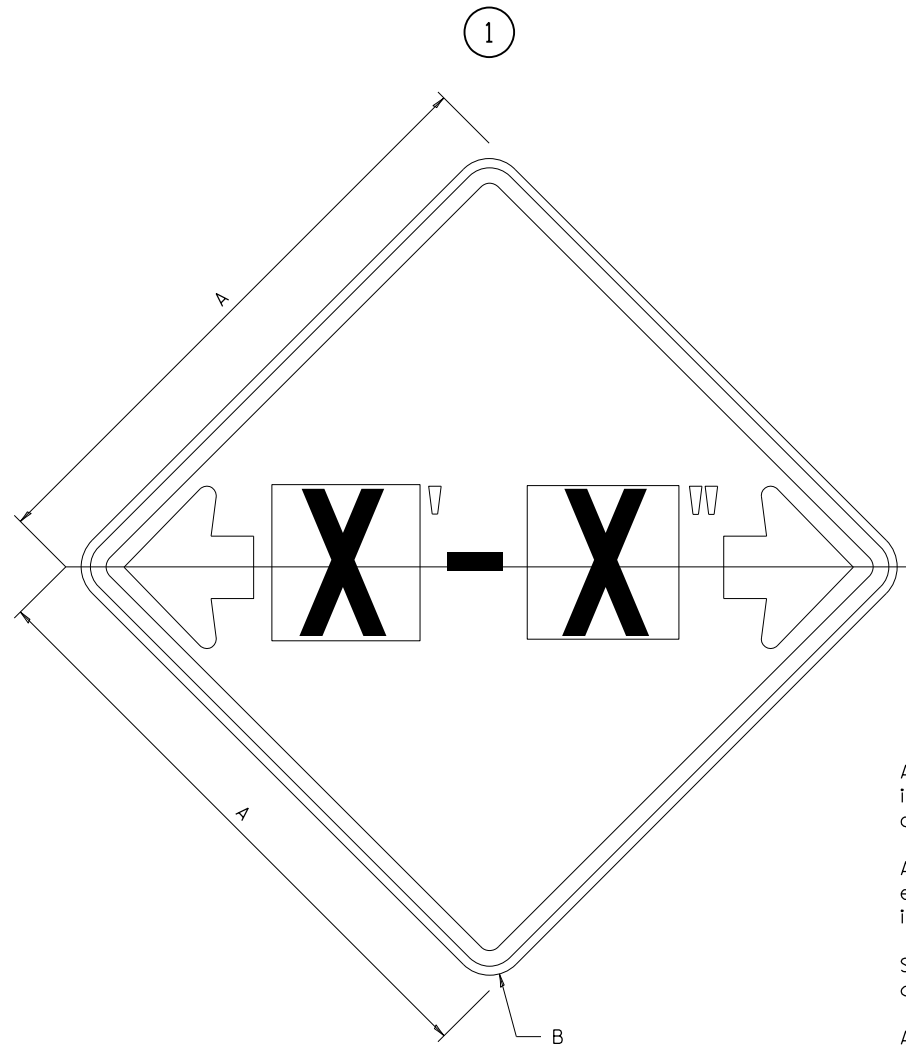
REGION 2 / DISTRICT 2 STANDARD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	31
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L08	

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



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

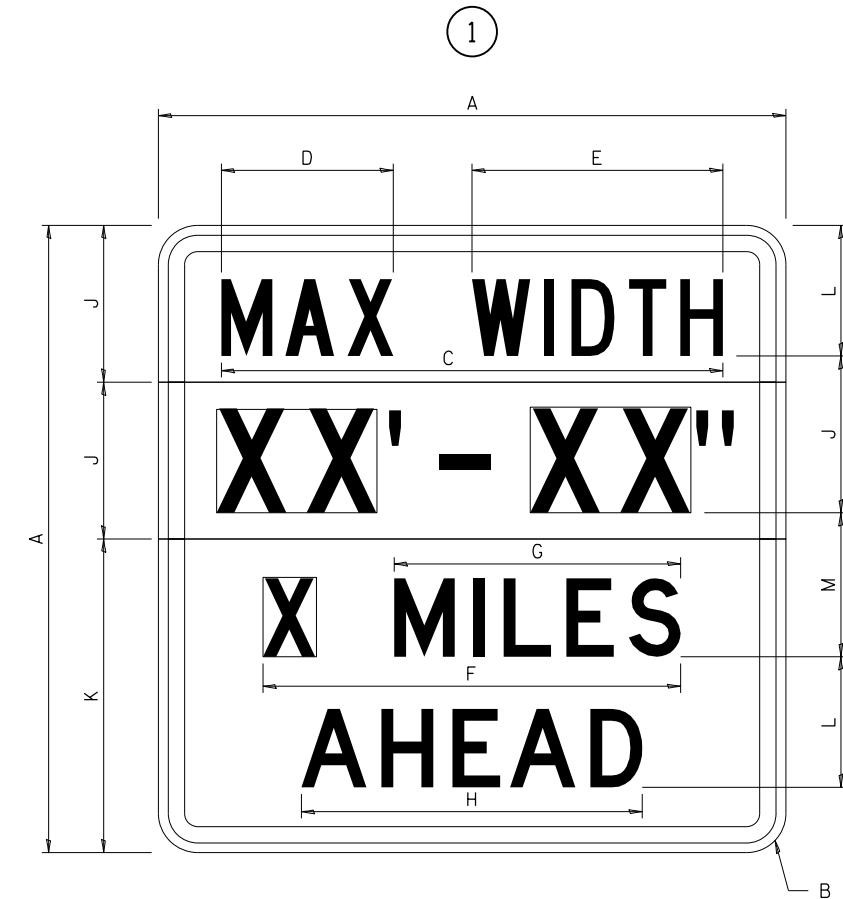
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

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

ILLINOIS STANDARD W12-I103



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

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 3-02-16
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\REVISED\CADsheets\02-64L08-sht-details.dgn		CHECKED -	REVISED -
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -
PLOT DATE = Jan-25-2019 08:46:46 AM			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

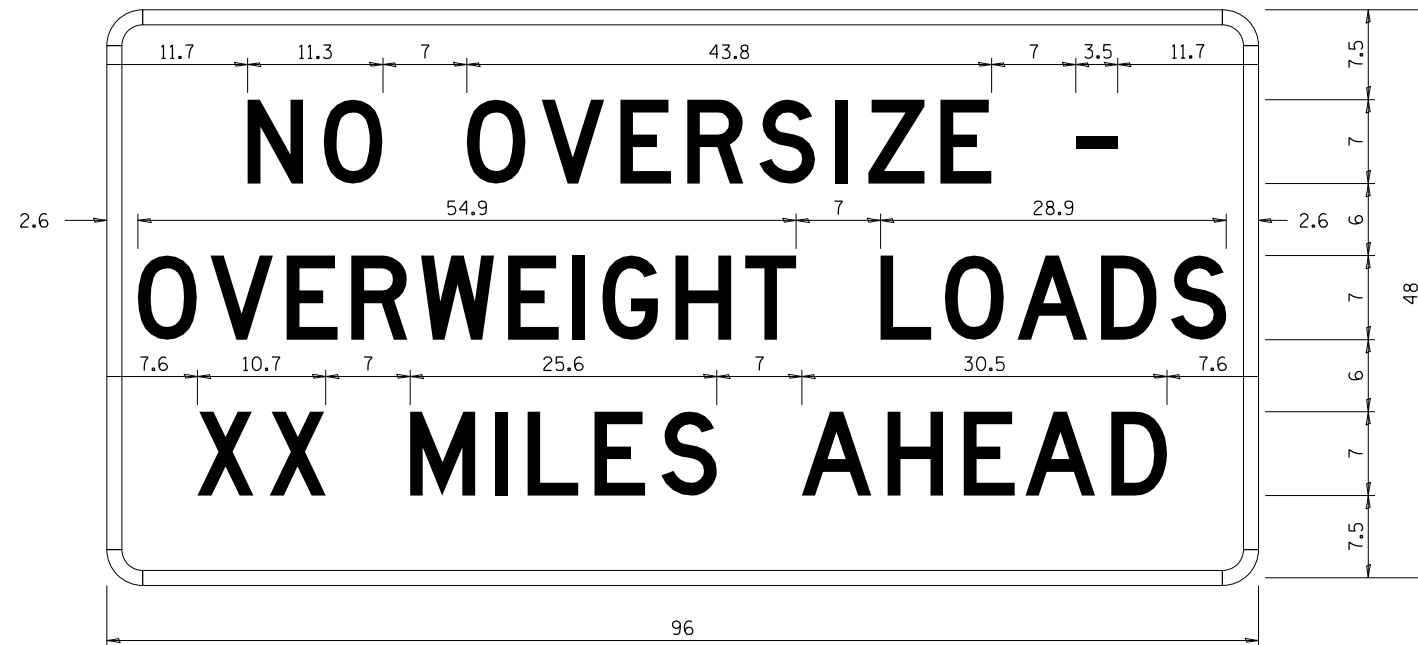
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	32
CONTRACT NO. 64L08			ILLINOIS FED. AID PROJECT	

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

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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 = fasslermj	DESIGNED -	REVISED - 3-02-16
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\REVISED\CAD\Sheets\02-64L08-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

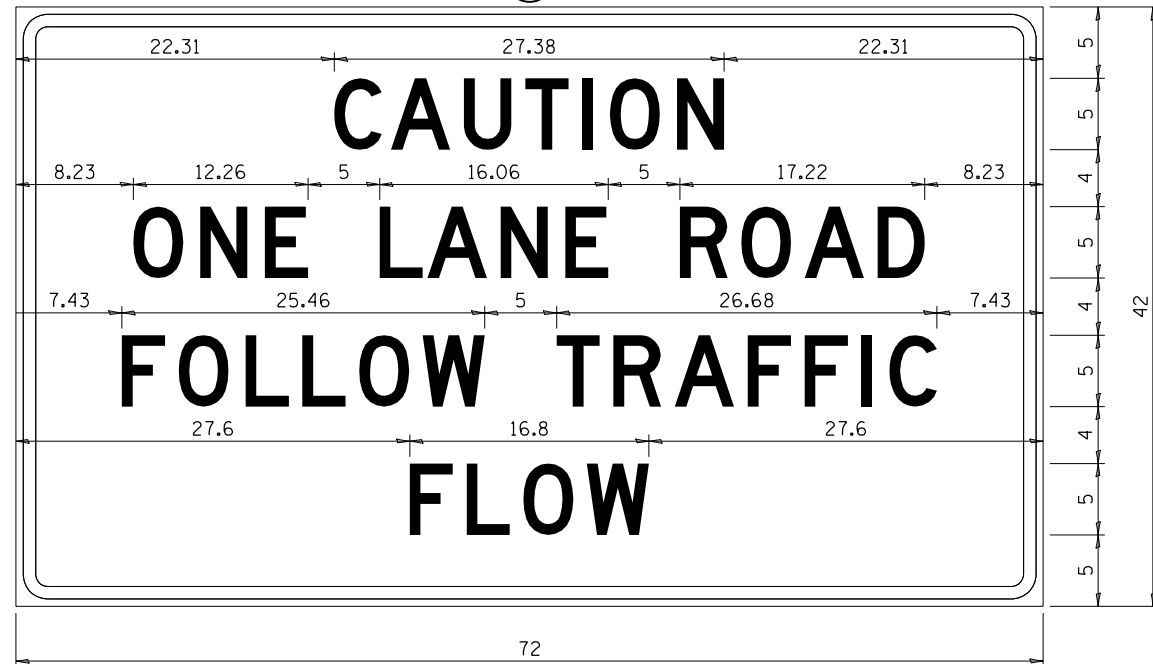
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L08	

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

8.23	O	1.17	N	1.18	E
	3.51		3.36		3.04

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

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

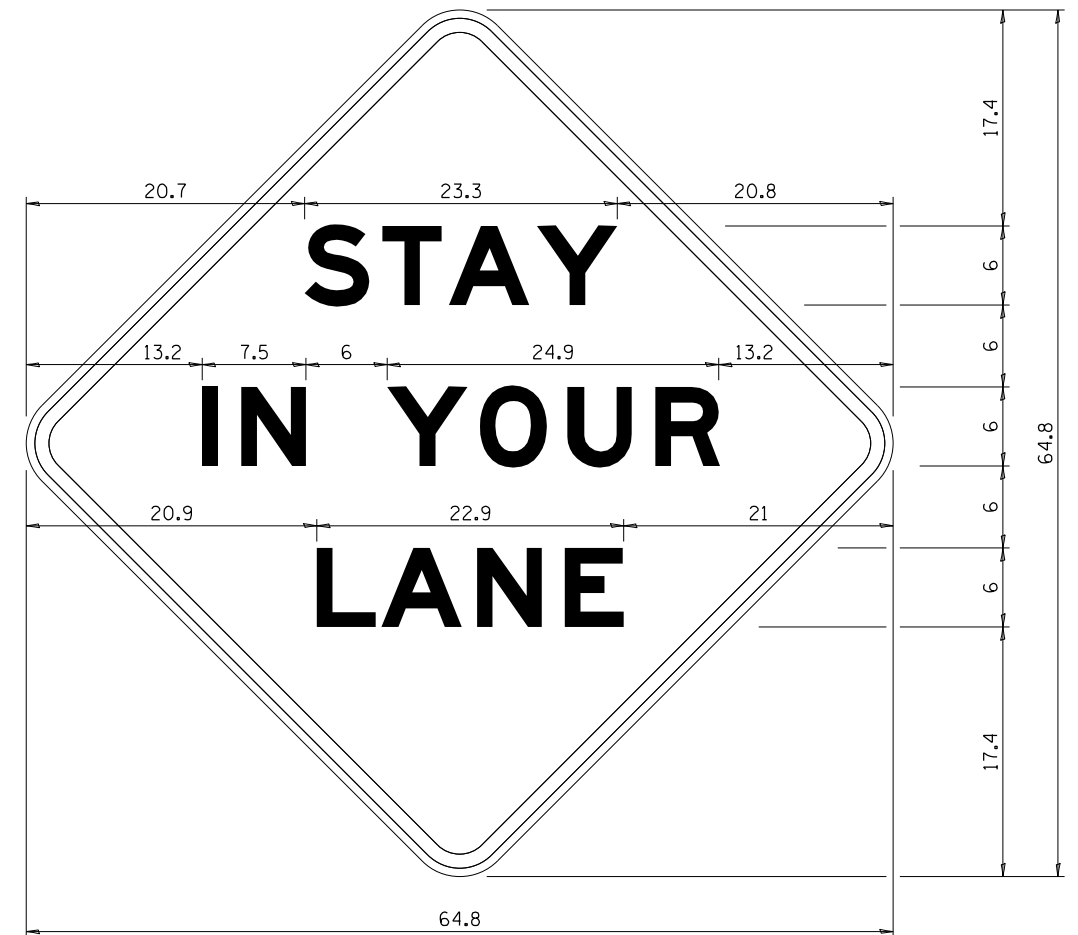
7.43	F	0.94	O	1.17	L	0.94	L	0.94	O	0.94	W
	3.04		3.52		3.04		3.05		3.51		4.37

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

27.60	F	0.94	L	0.94	O	0.93	W	27.60
	3.05		3.04		3.52		4.38	

Sign not to scale

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

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All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 3-02-16
p:\11084EBID\INTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\REVISED\CADsheets\02-64L08-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

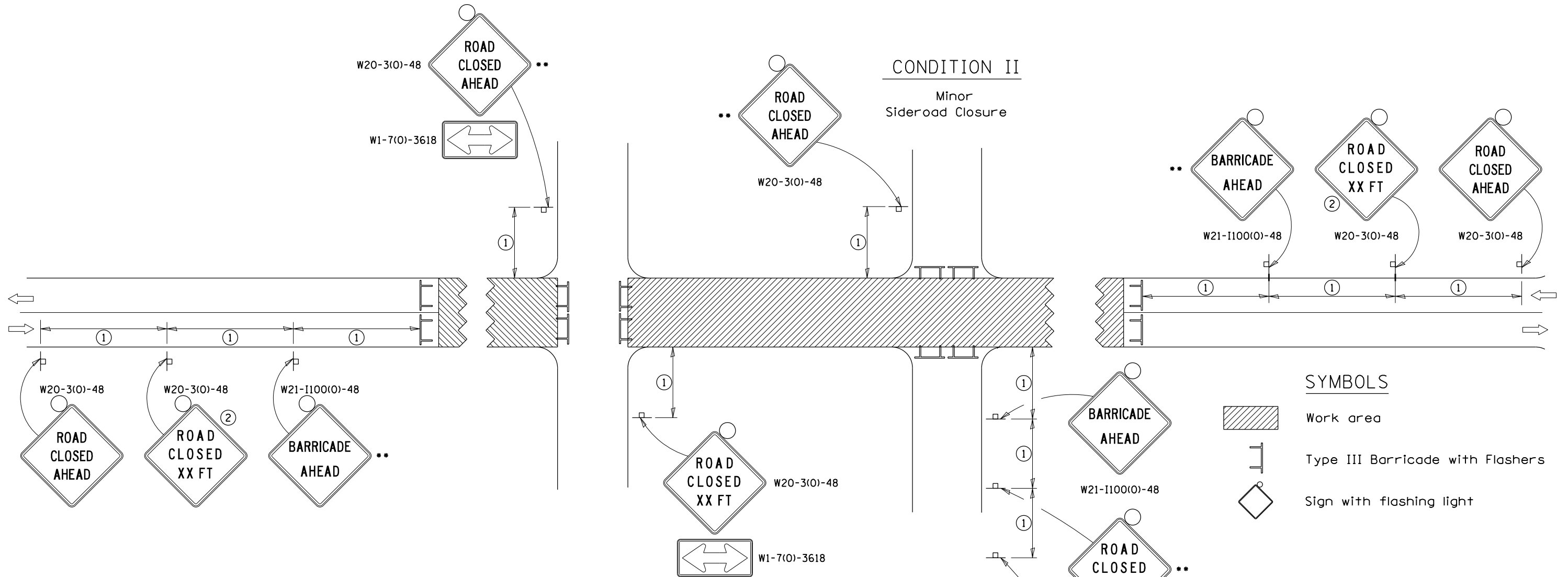
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD




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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	34
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS

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

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

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

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

All dimensions are in inches unless otherwise shown.

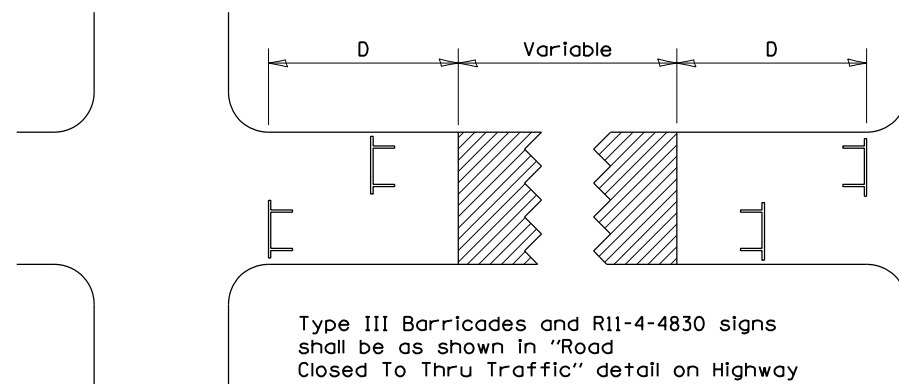
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



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

CONDITION I

Major Sideroad Closure

CONDITION II

Minor Sideroad Closure

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 8-03-17
PROJECT =	PROJECT =	CHECKED -	REVISED - 8-27-13
PLOT SCALE = 100.0000' / in.	DATE =	DATE =	REVISED - 10-17-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

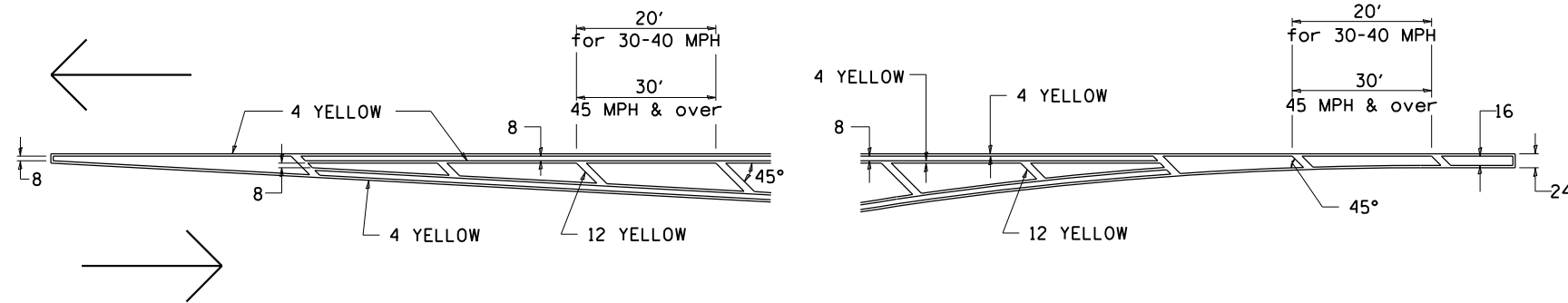
REGION 2 / DISTRICT 2 STANDARD

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

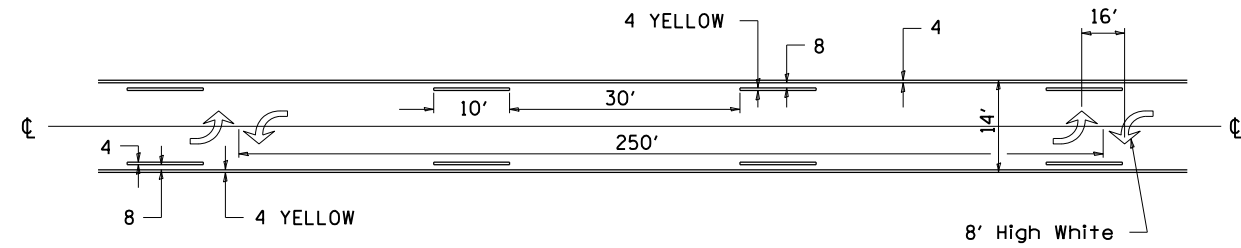
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	35
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 64L08	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

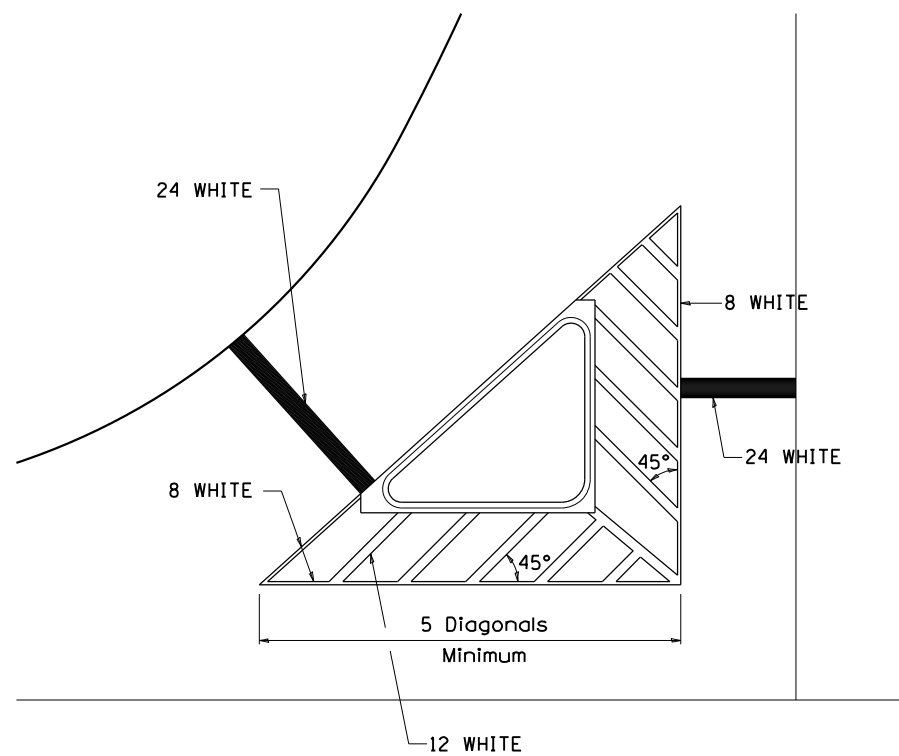


MEDIAN PAVEMENT MARKING



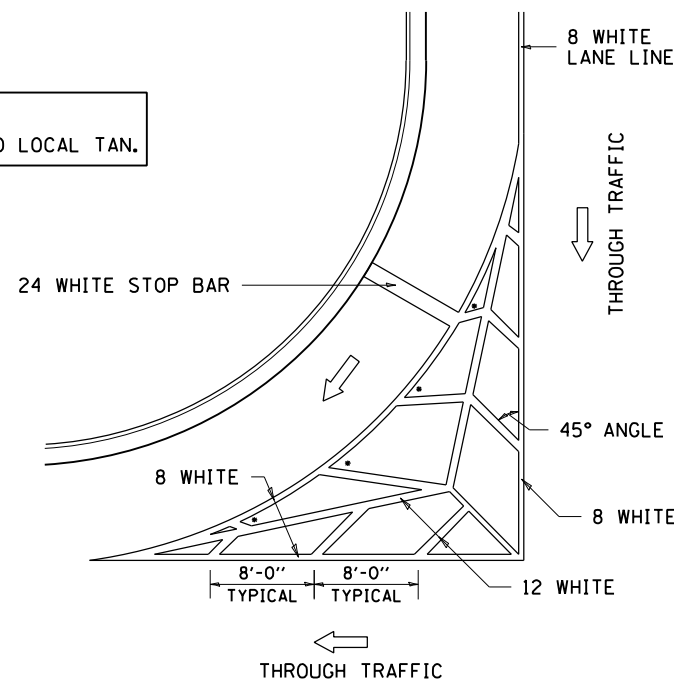
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



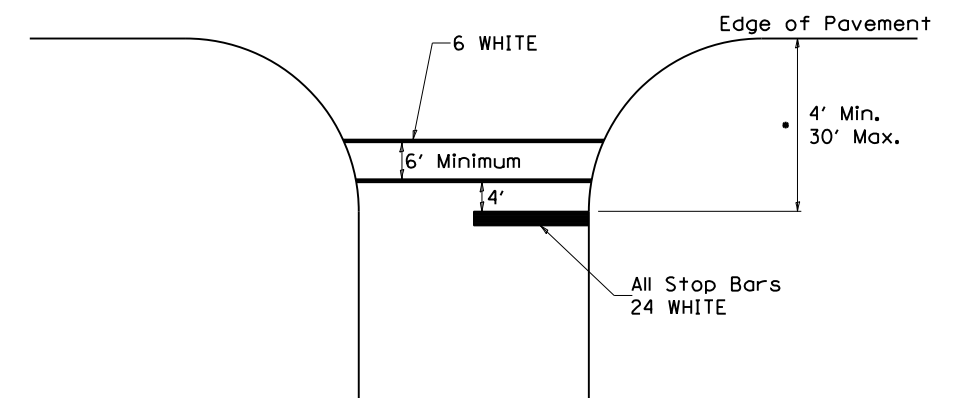
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



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

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 6-27-14
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\Development\CAD\Sheet\08-64L08-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

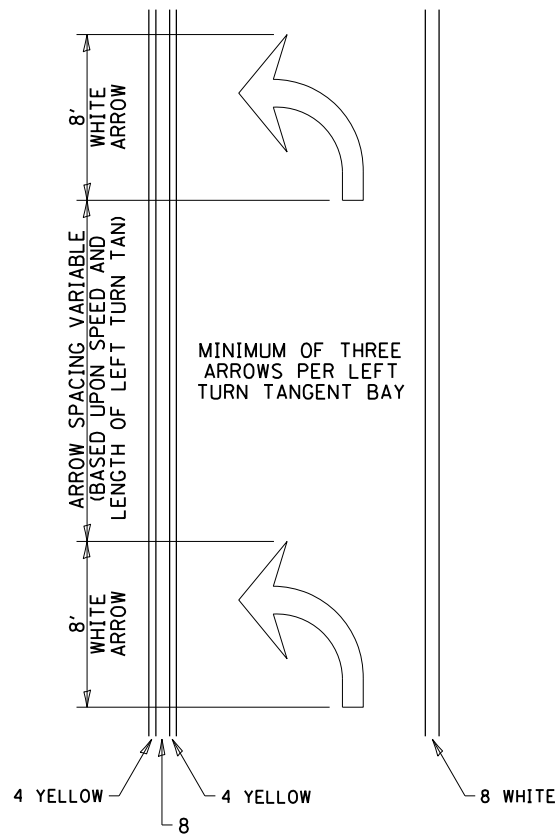
REGION 2 / DISTRICT 2 STANDARD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	36
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

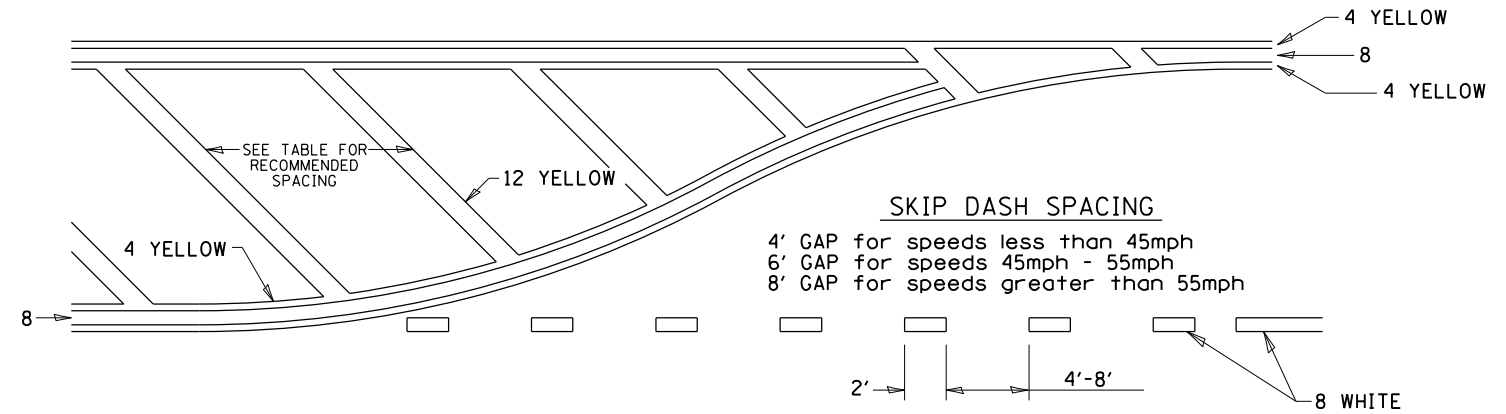
ARROW LAYOUT



- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◇ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

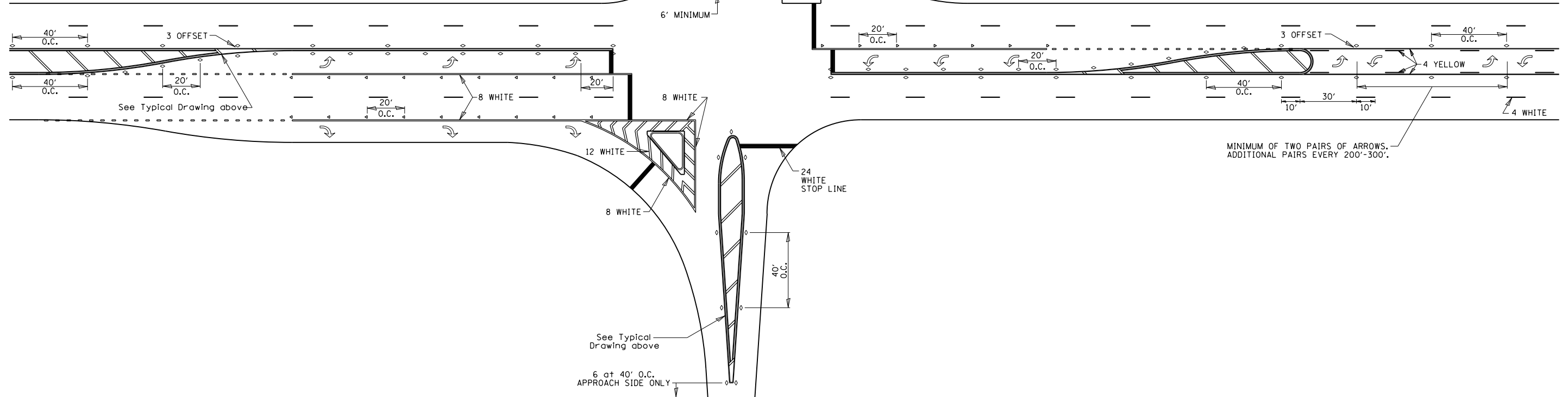
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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



FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 6-27-14
p:\11\084EBIDINTEG.illinois.gov\PIWIDT\Documents\DOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\REVISED\CADsheet\08-64L08-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

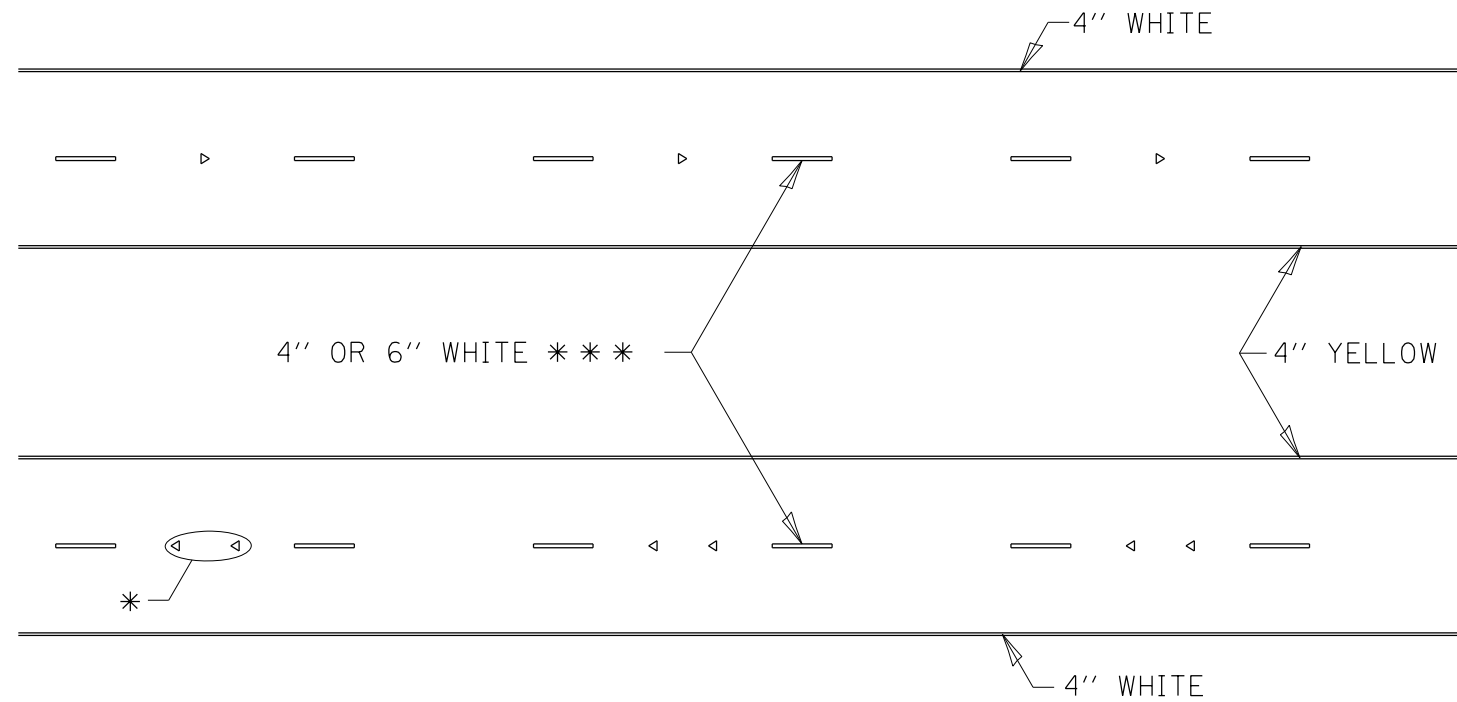
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

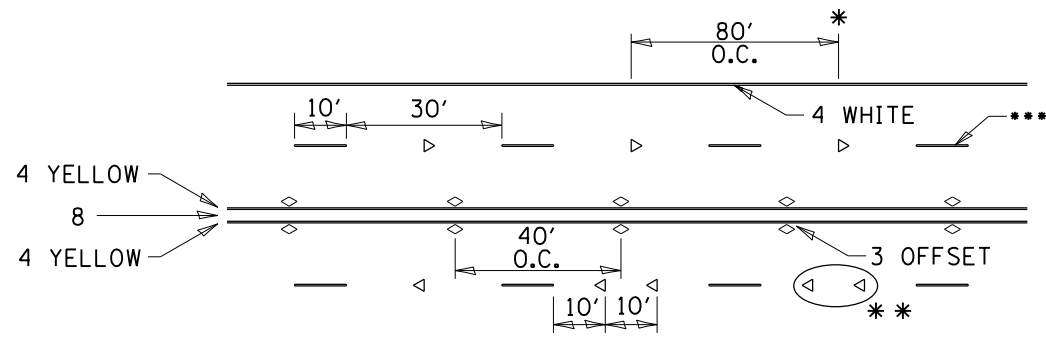
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	37
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

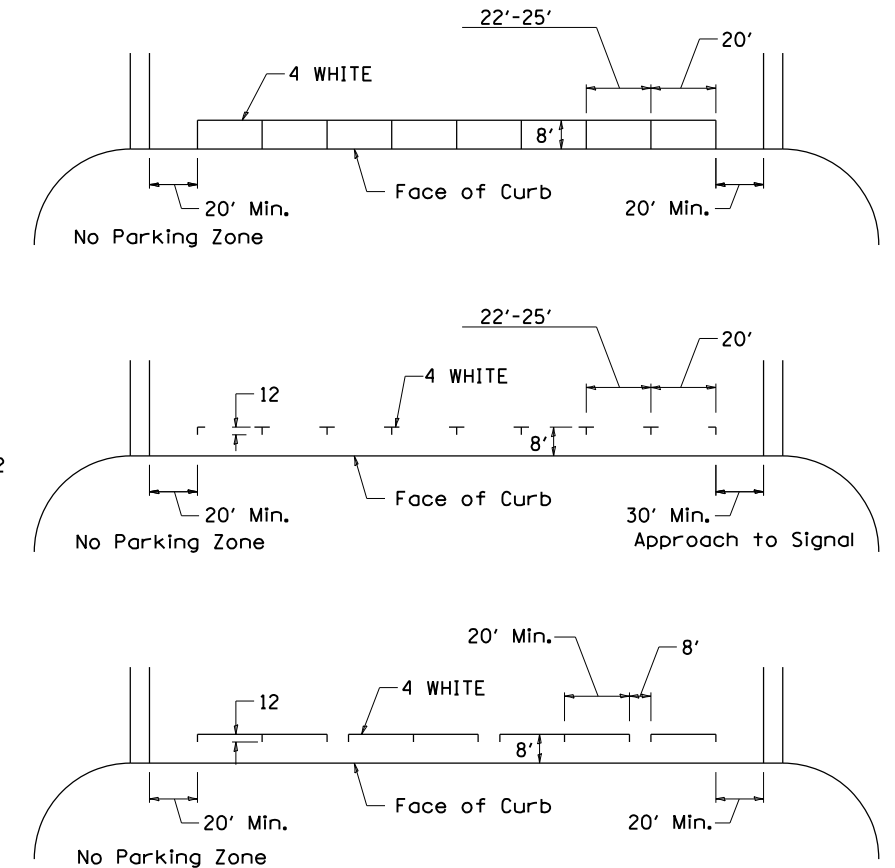
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

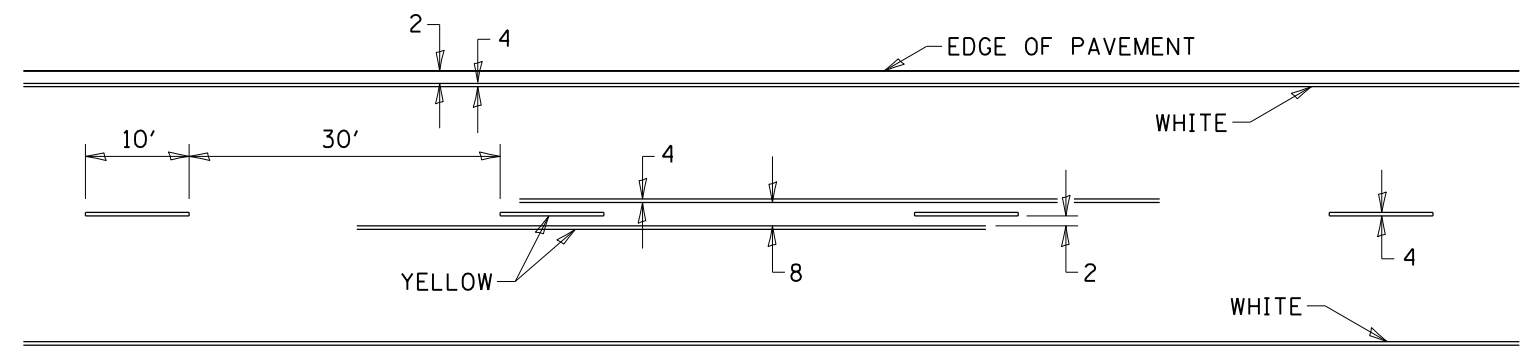
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME =	USER NAME = fasslermj	DESIGNED -	REVISED - 6-27-14
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\64L08\Drawings\Development\Studies & Plans\Development\CAD\Sheet\64L08-sht-details.dgn		DRAWN -	REVISED - 11-28-12
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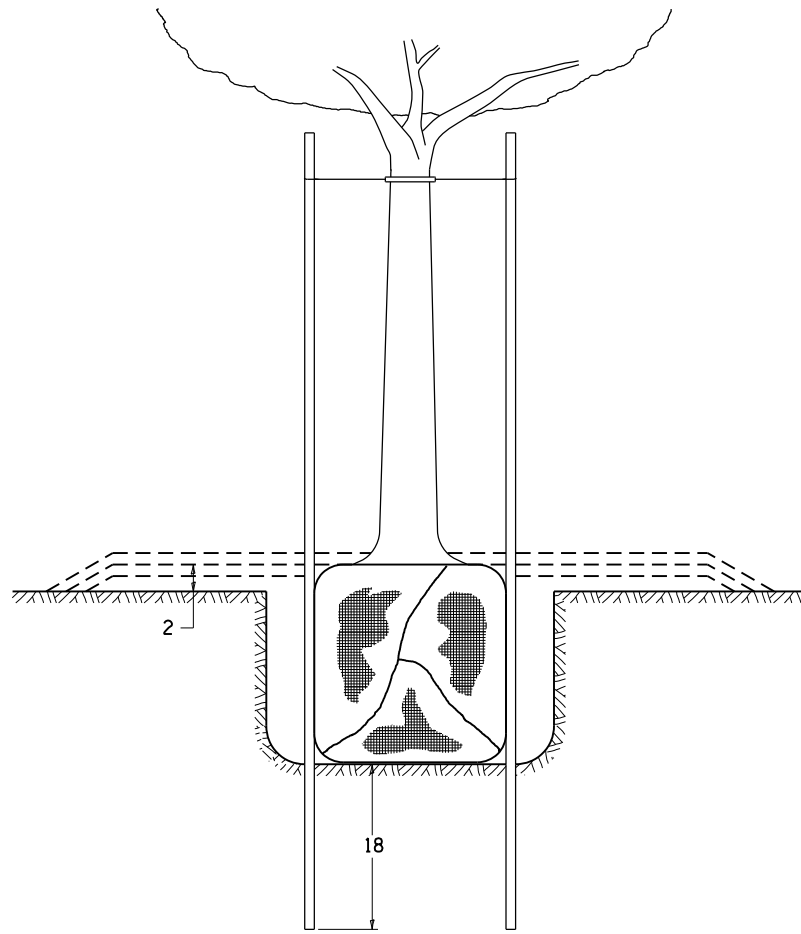
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

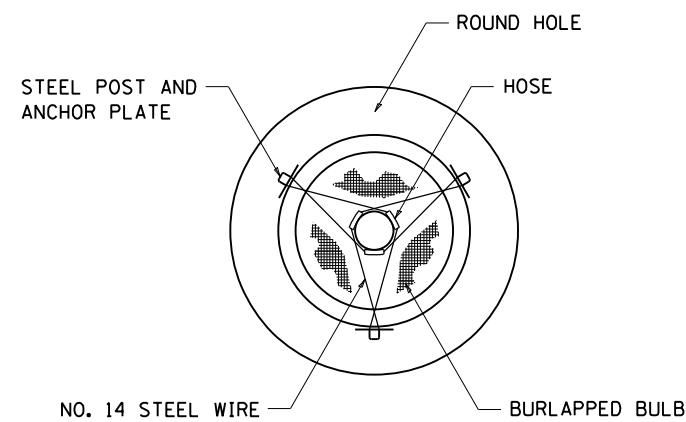
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	38
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DETAILS OF PLANTING AND BRACING TREES

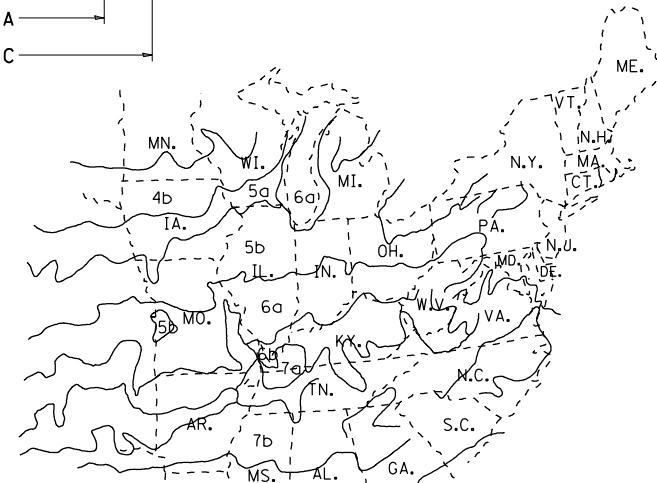
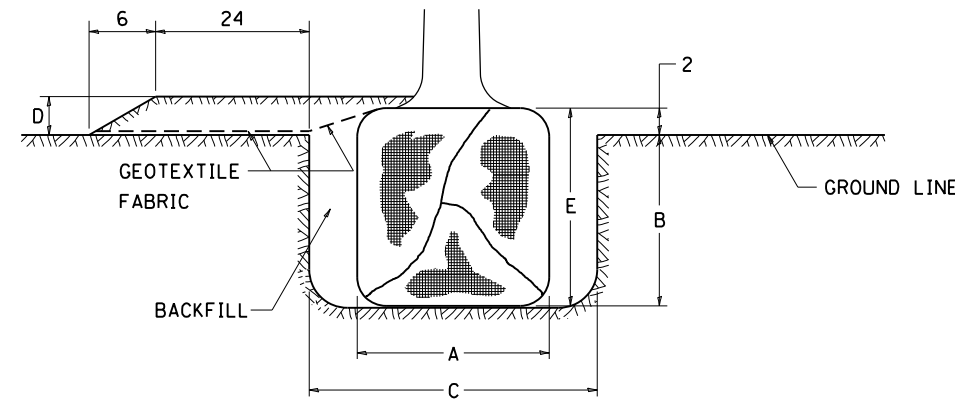


TREES SMALLER THAN 4 1/2 IN DIAMETER

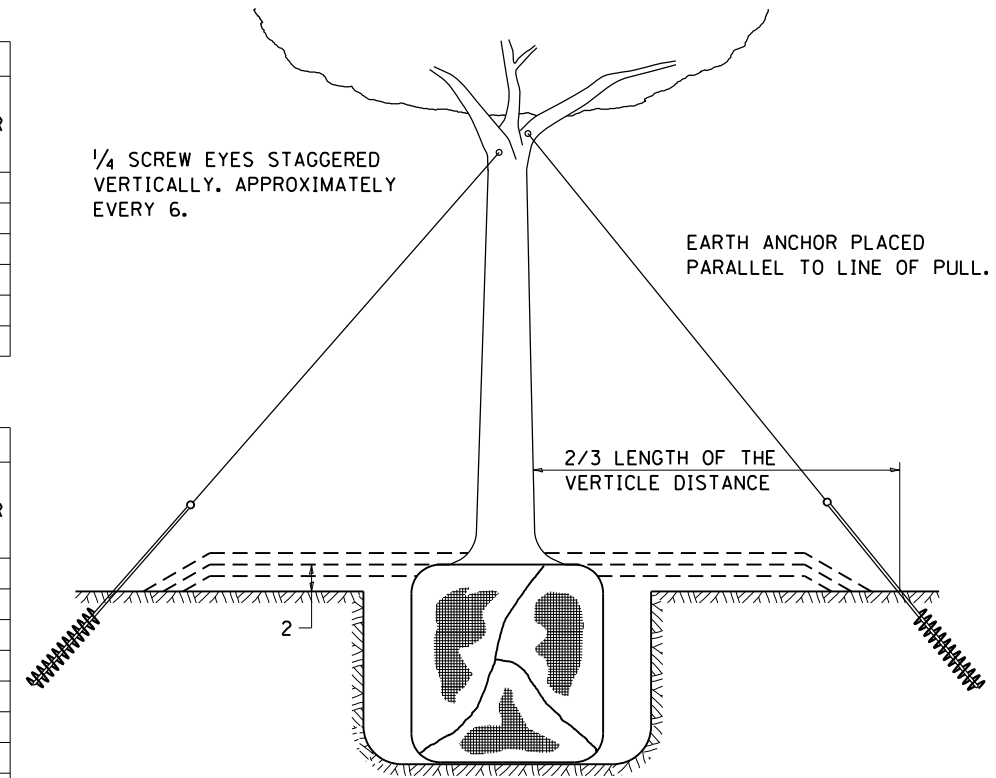


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10'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

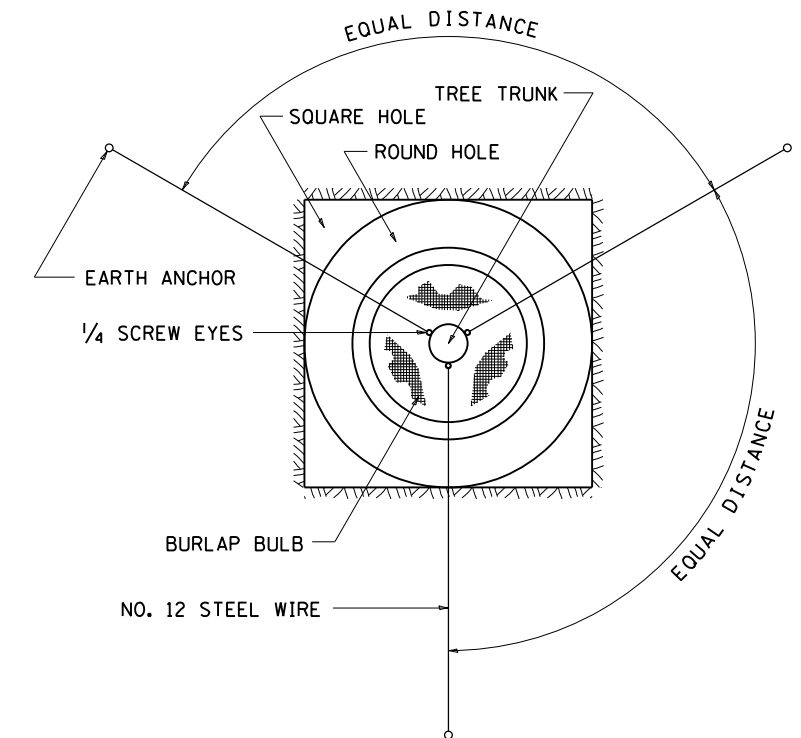
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96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



PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

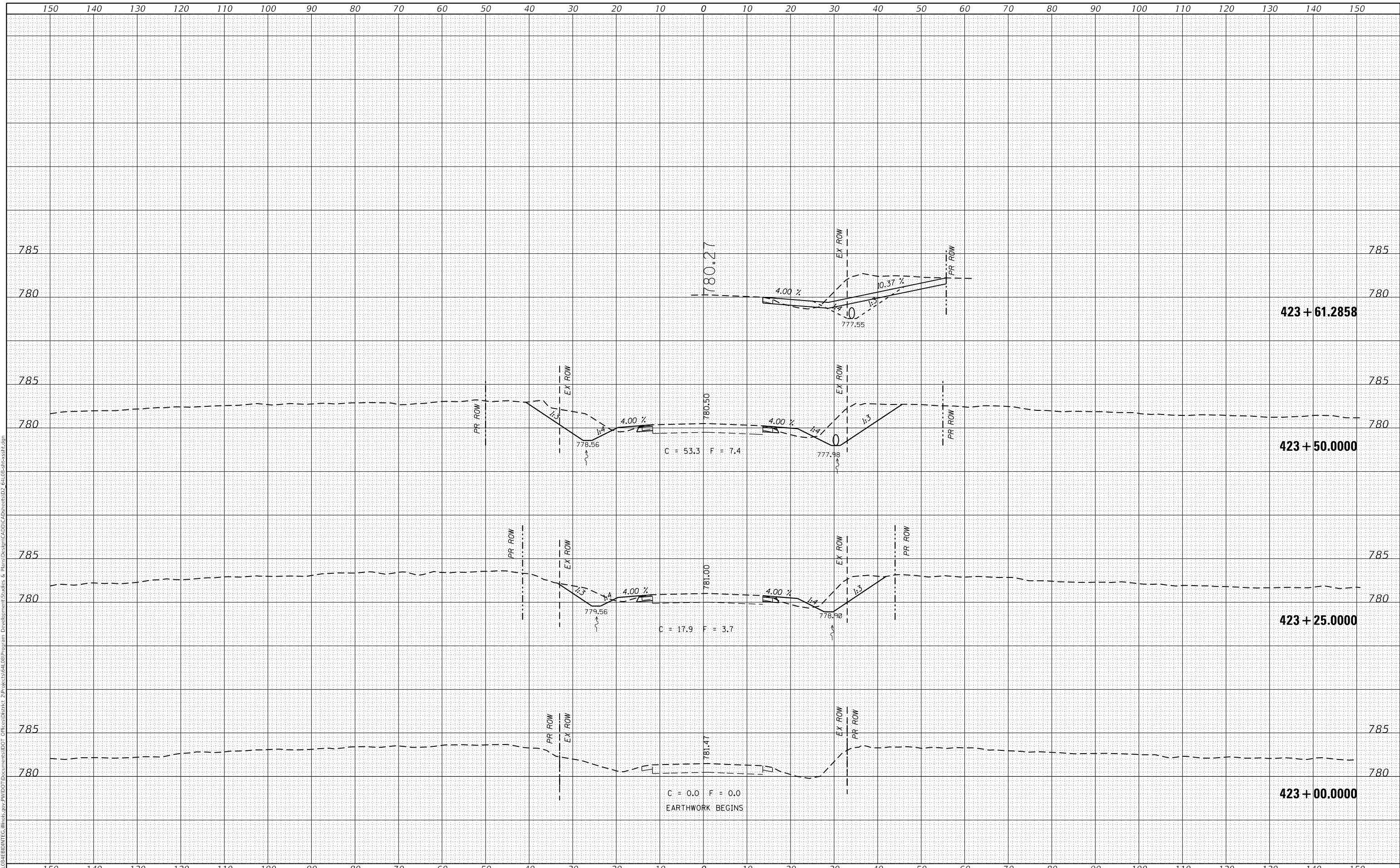
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	39
CONTRACT NO. 64L08				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

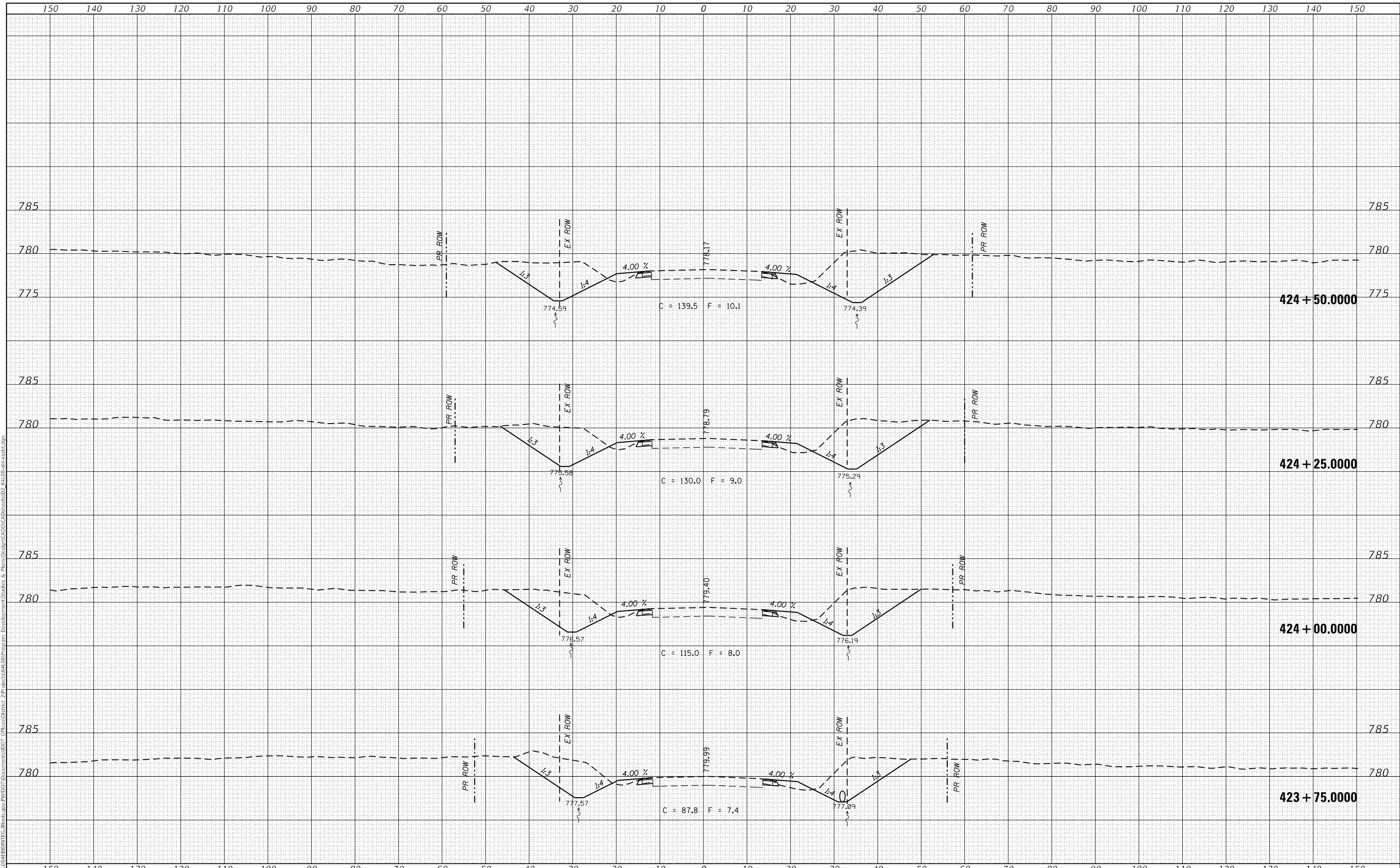
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	40
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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DATE	
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ORIGINAL SURVEY	SURVEYED
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	AREAS
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

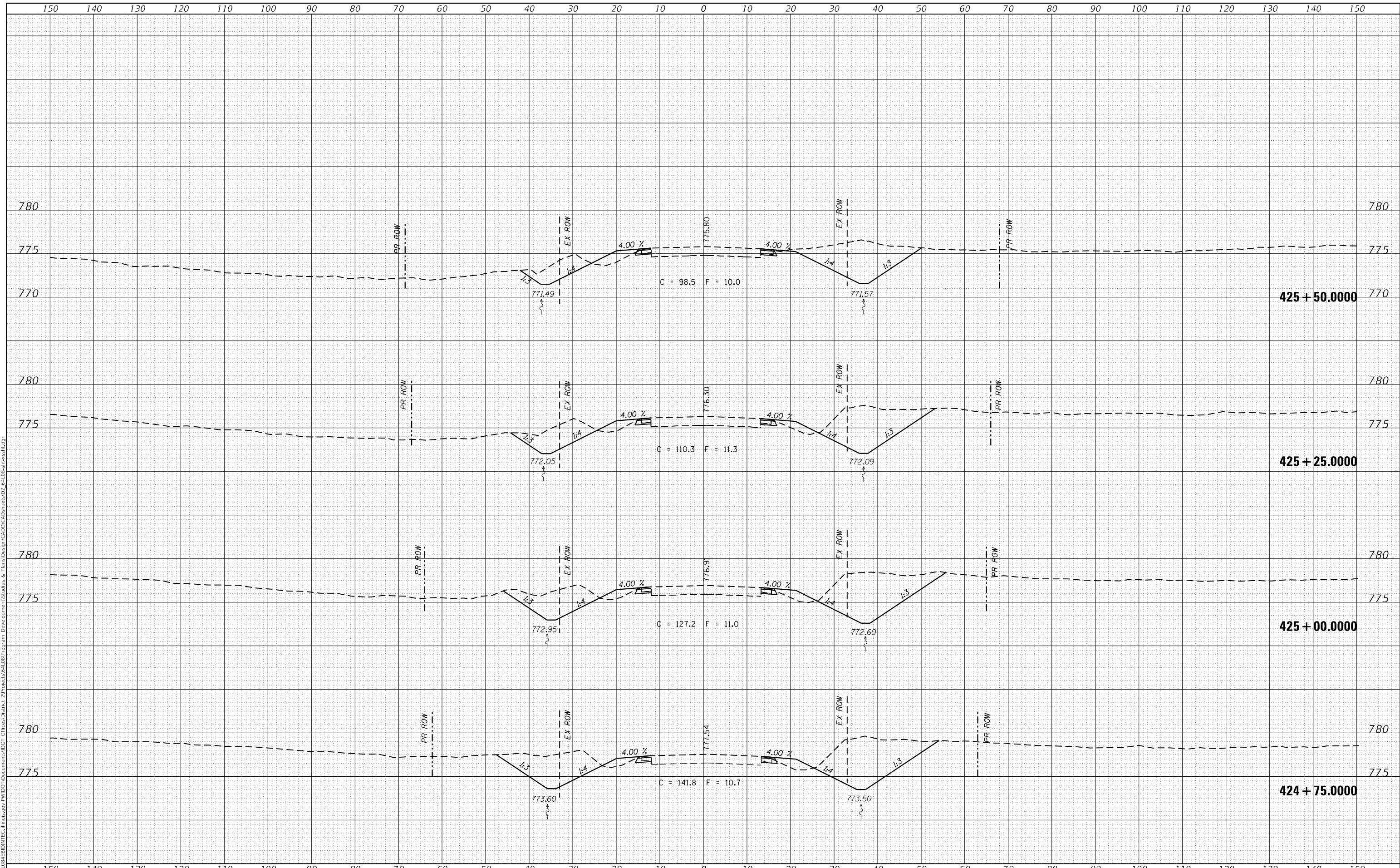
SCALE: SHEET OF SHEETS STA. 423+75.0000 TO STA. 424+50.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	41
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

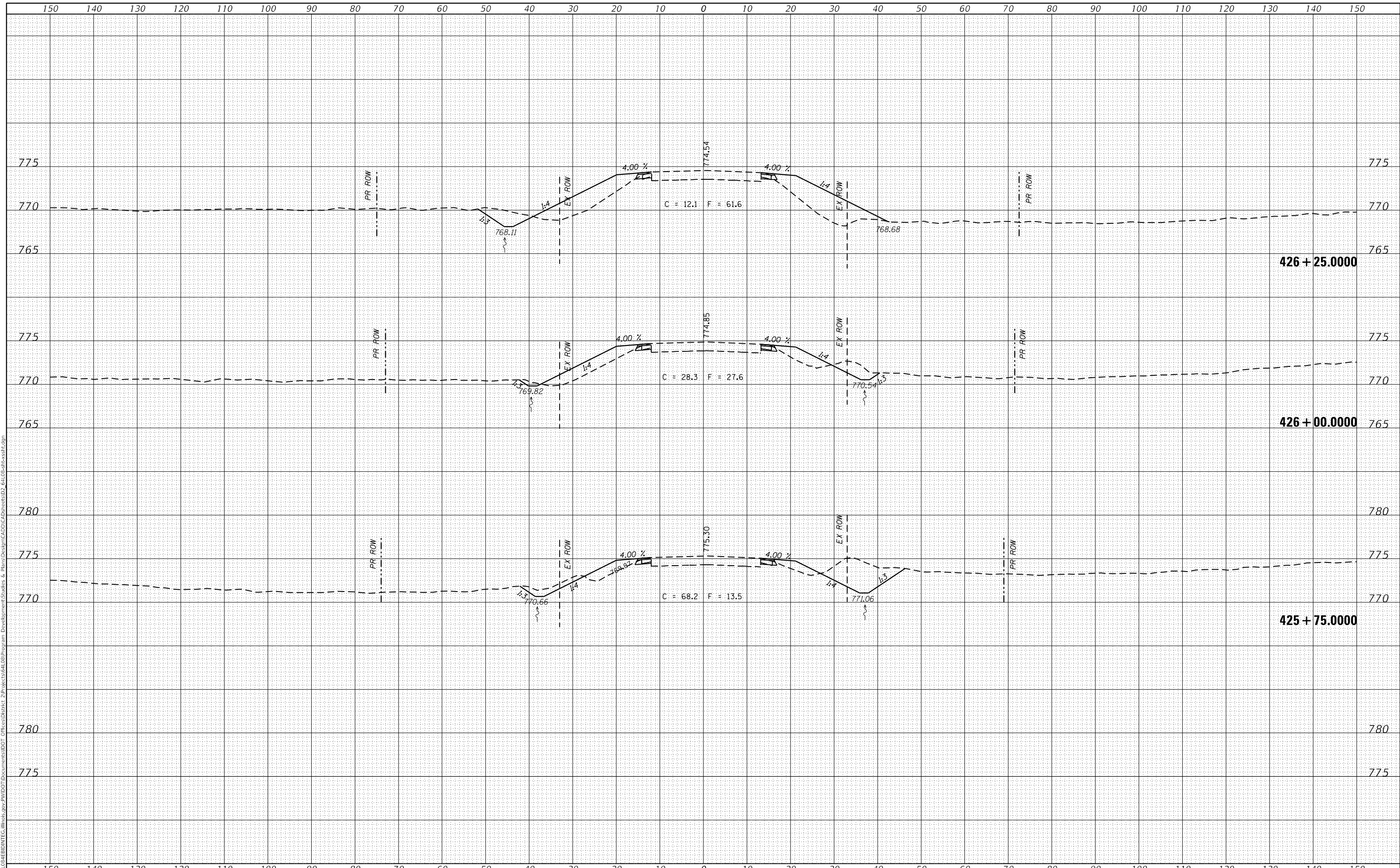
SCALE: SHEET OF SHEETS STA. 424+75.0000 TO STA. 425+50.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	42
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

DATE	BY	FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED
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	DATE -	REVISED -

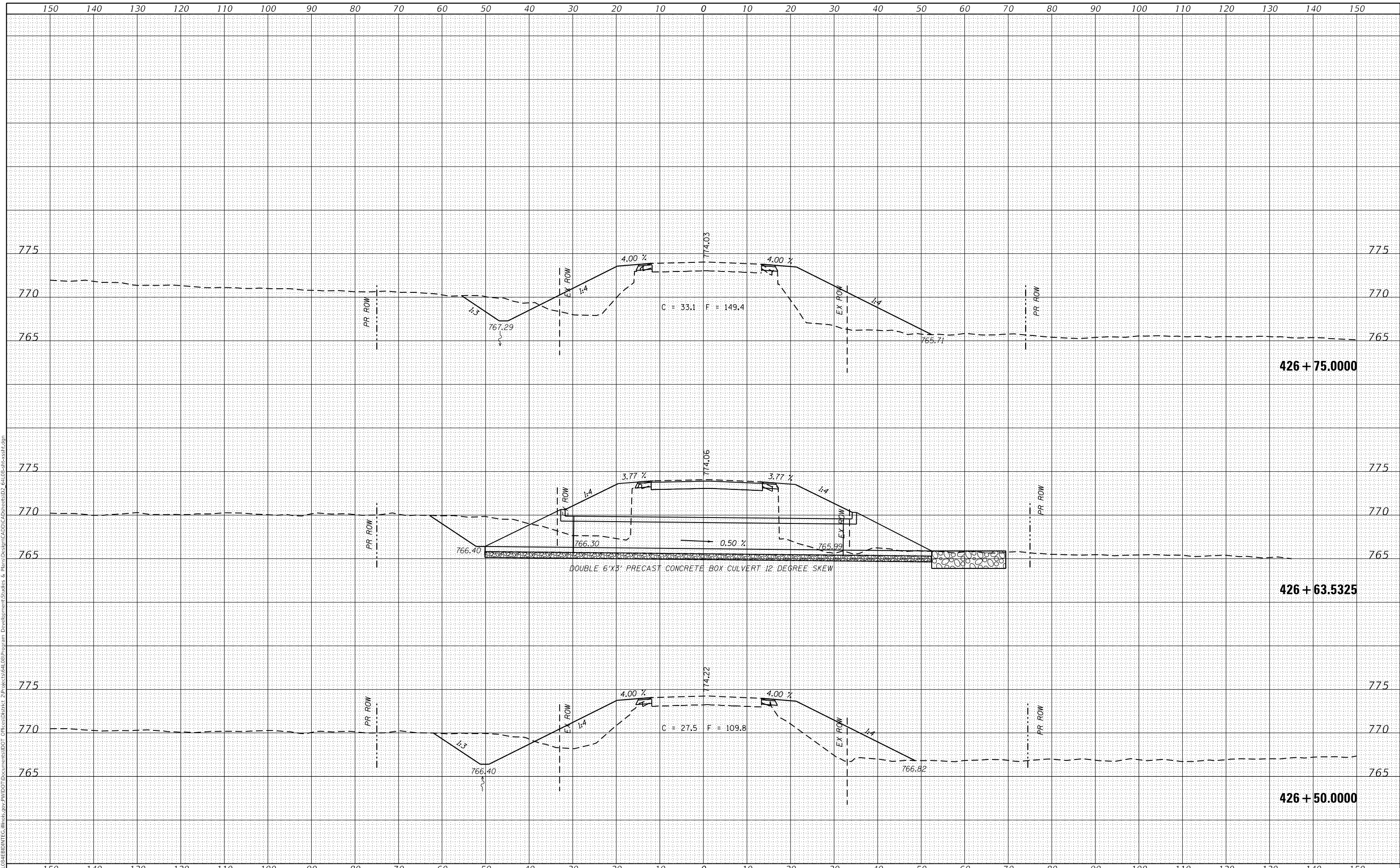
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 425+53.4294 TO STA. 426+25.0000	F.A. RTE. 646	SECTION 5CR	COUNTY CARROLL	TOTAL SHEETS 49	SHEET NO. 43
								CONTRACT NO. 64L08	
								ILLINOIS FED. AID PROJECT	

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

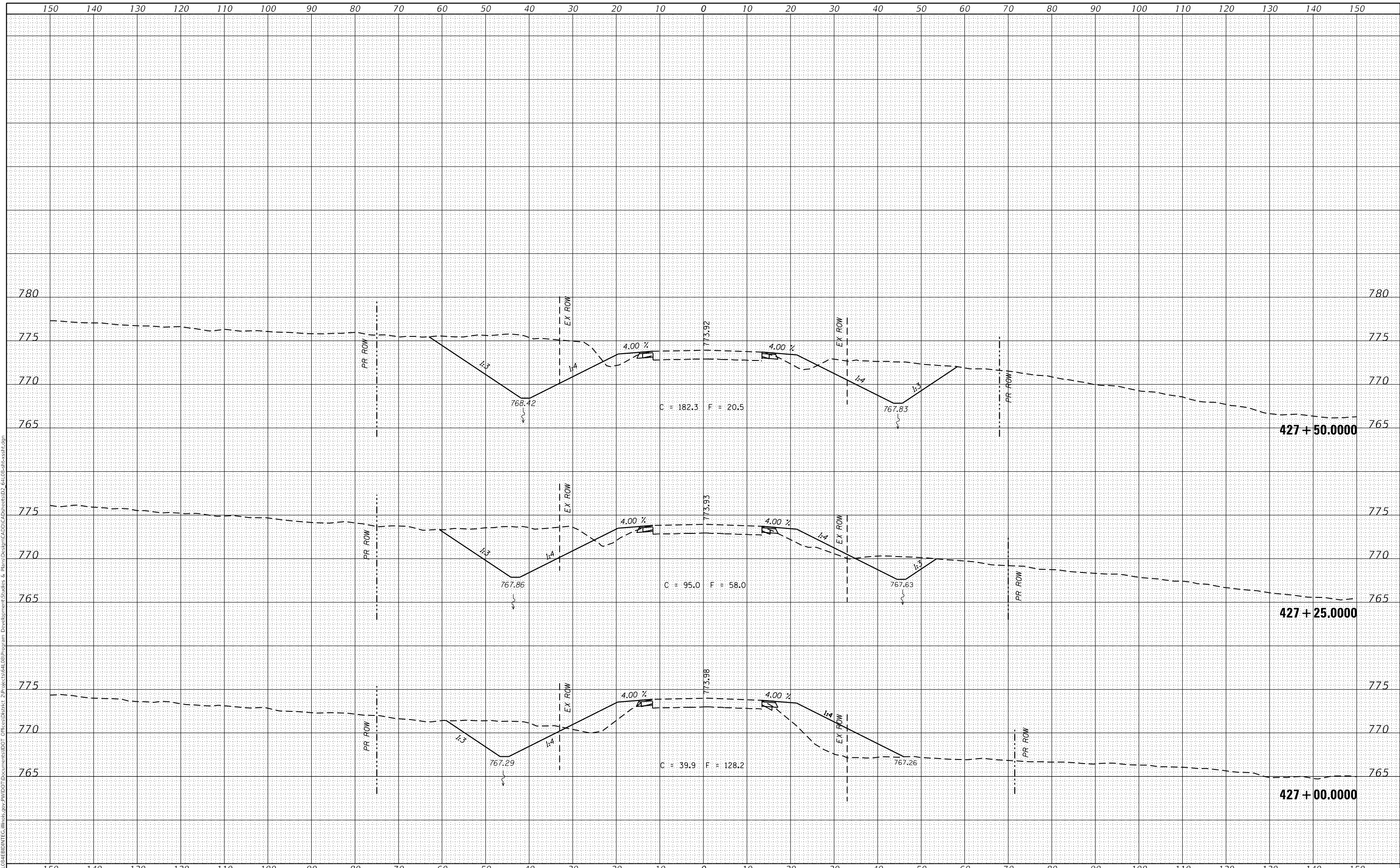
SCALE: SHEET OF SHEETS STA. 426+50.000 TO STA. 426+75.000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	44
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

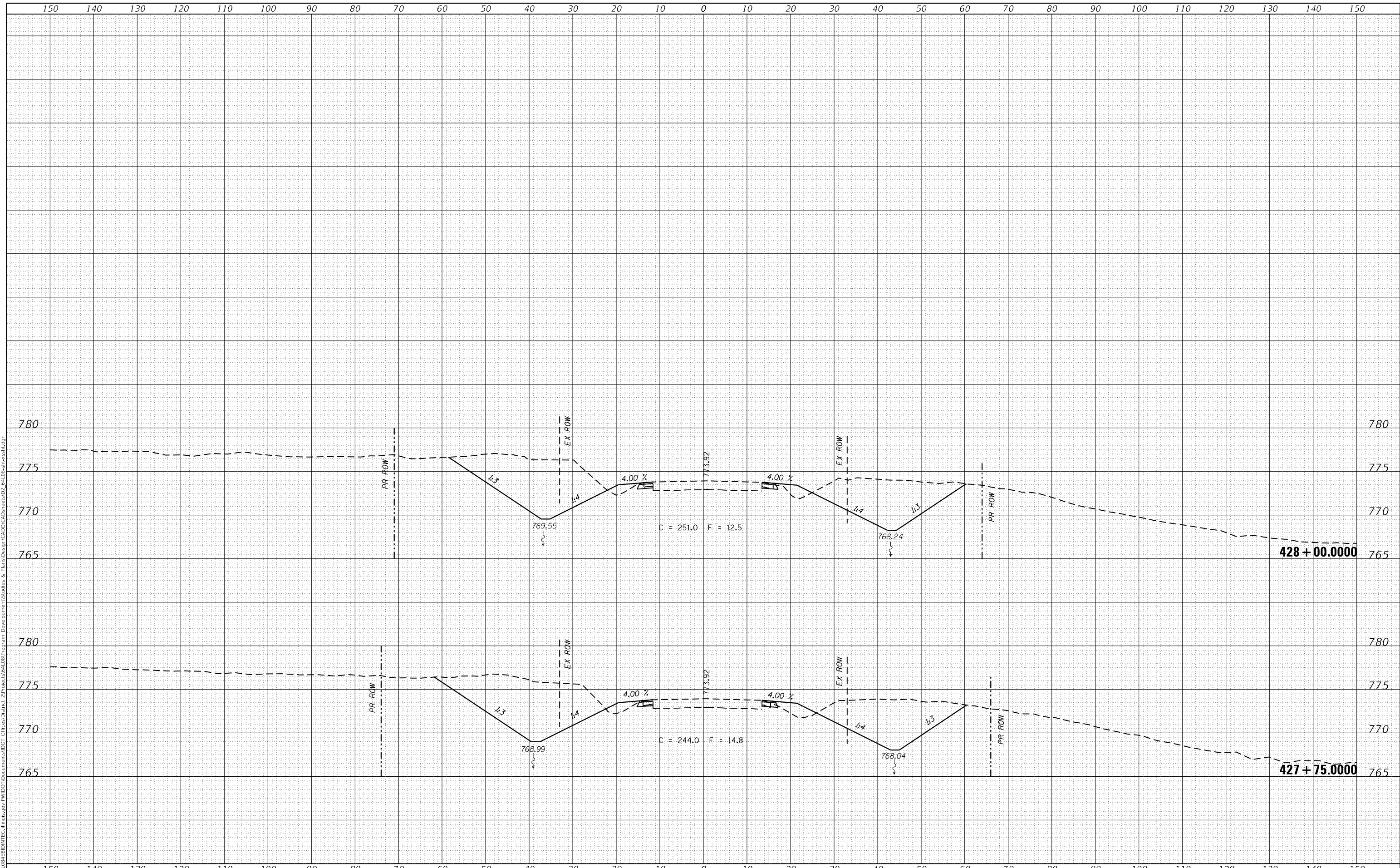
SCALE: SHEET OF SHEETS STA. 427+00.0000 TO STA. 427+50.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	45
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NOTE BOOK NO.	

DATE	
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SURVEYED	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

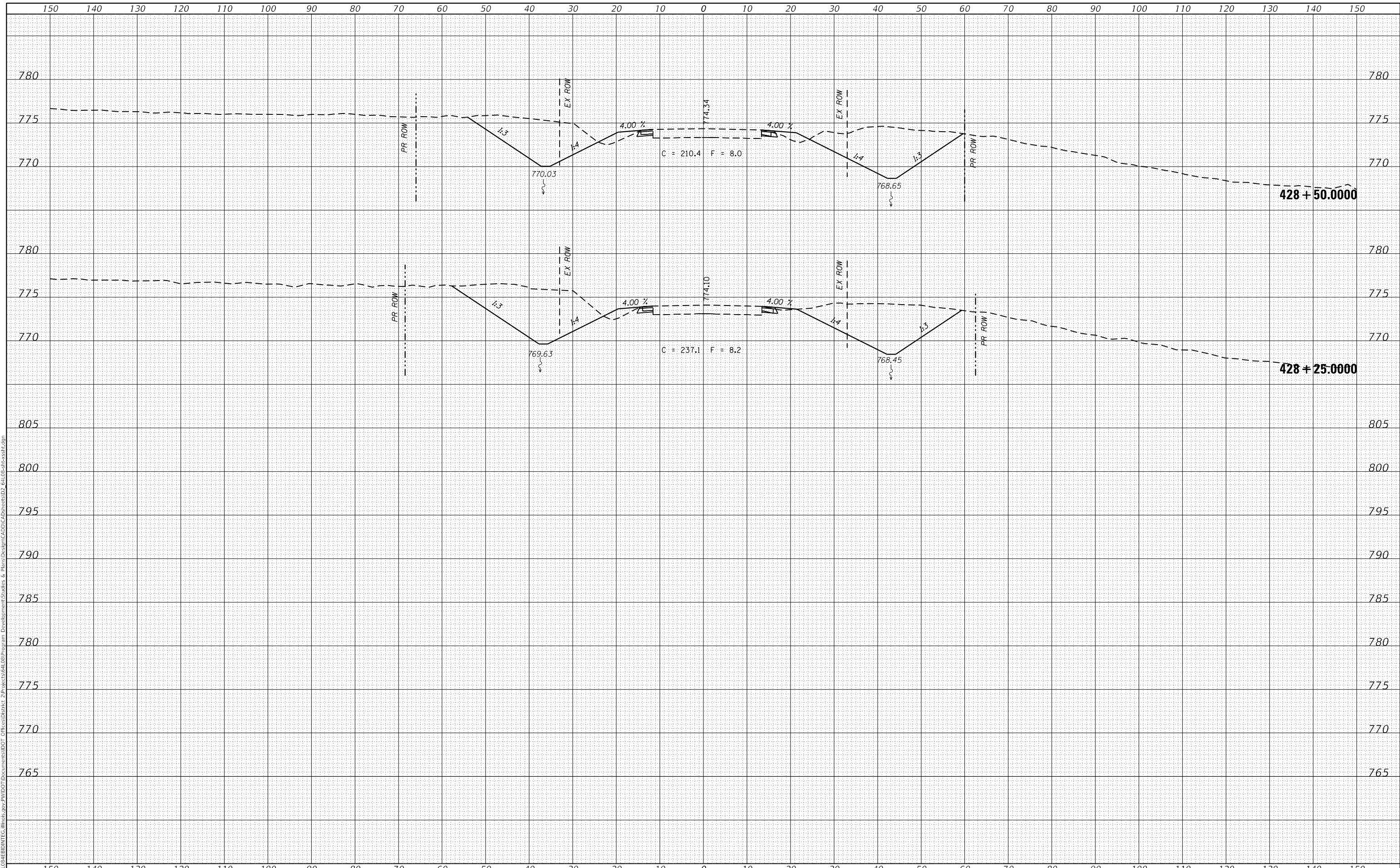
SCALE: SHEET OF SHEETS STA. 427+75.0000 TO STA. 428+00.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	46
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

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

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

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

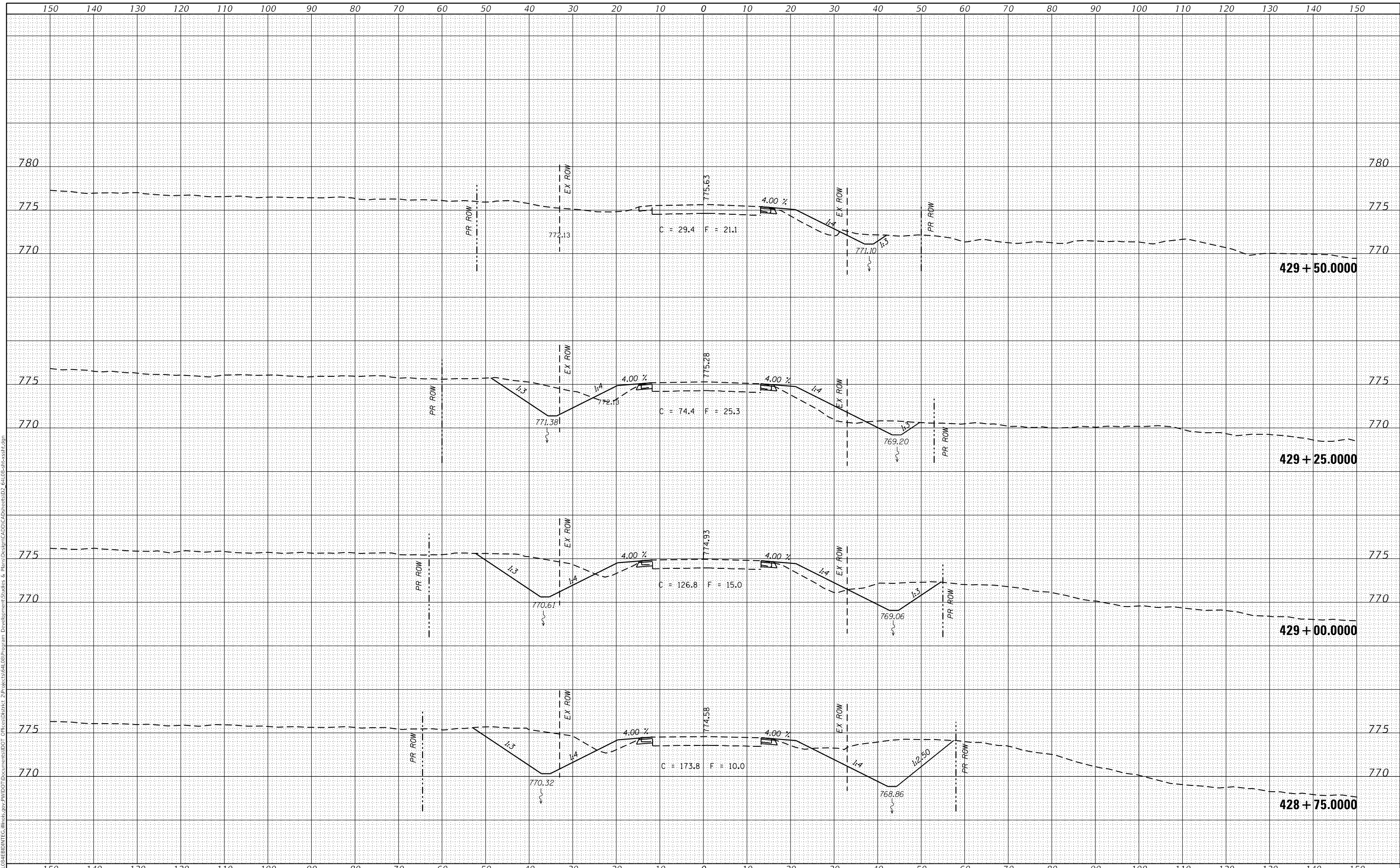
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	47
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

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

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

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PLOT DATE = Jan-25-2019 09:11:25 AM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

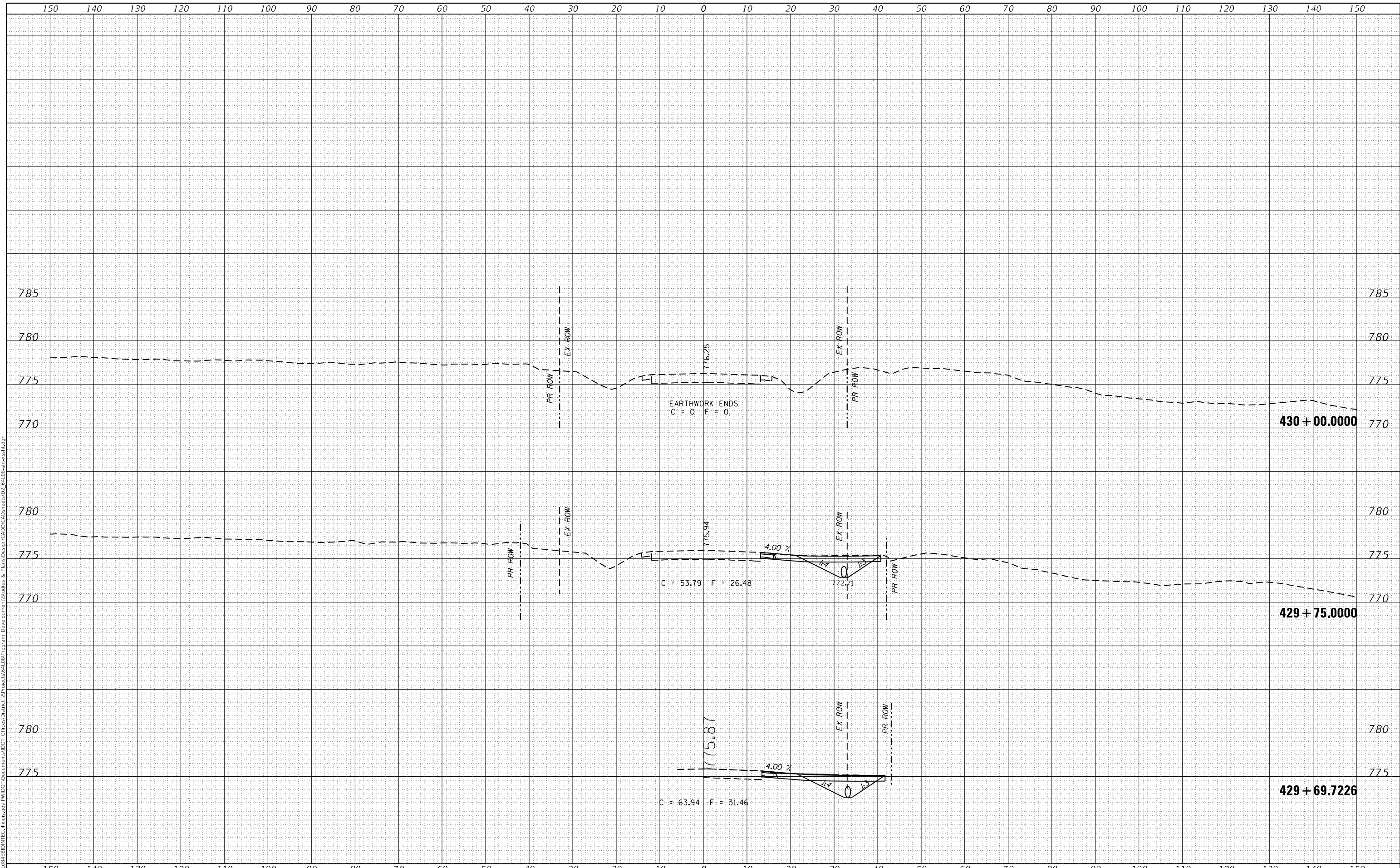
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	48
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				

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

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

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

SCALE: SHEET OF SHEETS STA. 429+69.7226 TO STA. 430+00.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	5CR	CARROLL	49	49
CONTRACT NO. 64L08				
ILLINOIS FED. AID PROJECT				