

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41A)BR	McDONOUGH	58	1

CONTRACT NO. 88939
D-94-025-99

INDEX OF SHEETS

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LIST OF STANDARDS

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420401-05	630001-06	666001	701326-02
482011-01	630301-03	701006-02	702001-06
515001-02	631031-05	701011-01	704001-02
542401	635001	701301-02	780001-01
601101	635006-02	701311-02	781001-02
		701201-02	

DESIGN DESIGNATION

ADT = 2850 (2001)
MU 14% SU 5%

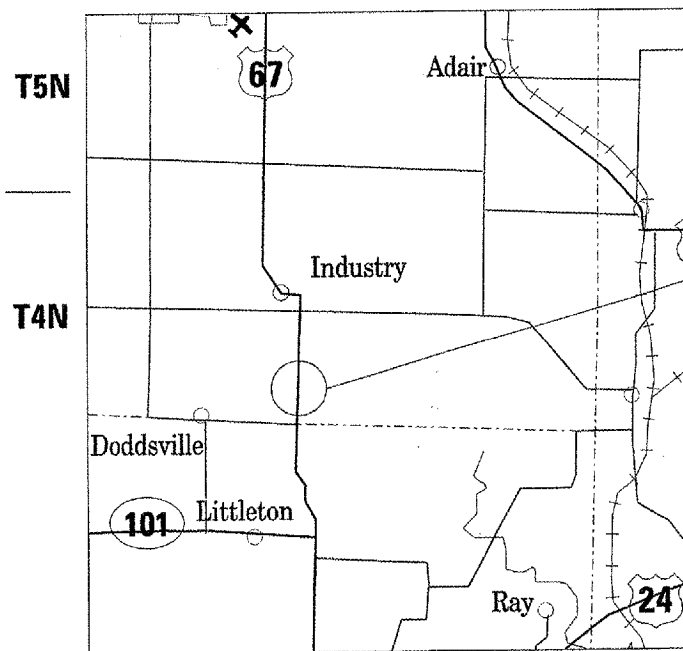
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP ROUTE 310 (US 67)
SECTION (41-A)BR
McDONOUGH COUNTY
C-94-103-99
PROJECT BRF-0310 (095)
R2W of the 4th PM



Project Engineer: Maureen Addis (309) 671-3454

Liason: David M. Layne (309) 671-3472



Carter Creek
SN 055-0007 (exist.)
SN 055-0048 (prop.)

JOB DESCRIPTION

This improvement consists of the removal and replacement of structure 055-0007 over Carter Creek. Included in this work will be the related bituminous paving and earth work.

PREPARED BY:
LIN ENGINEERING, LTD.
WESTMONT, IL 60559
(630) 323-5168

Fred M. Lin
FRED M. LIN, PE
ILL. REGISTRATION NO. 062-050704
REGISTRATION EXP. 11-30-2007



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

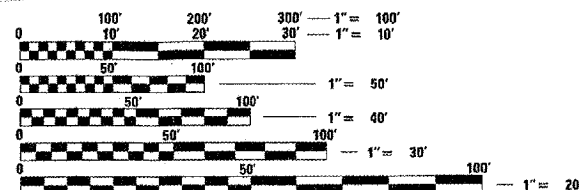
SUBMITTED *Aug 16, 2006*

Maureen Addis
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 13, 2006
Mike Henne
ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2006
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

QC/QA BITUMINOUS CONCRETE SUPERPAVE
QC/QA CONCRETE
NPDES PERMIT REQUIRED
404/401 PERMIT REQUIRED



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

CONTRACT NO. 88939
CATALOG NO. 031050-00D

GROSS LENGTH OF IMPROVEMENT = 645 FEET = 0.12 MILES
NET LENGTH OF IMPROVEMENT = 585 FEET = 0.11 MILES

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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GENERAL NOTES

CONTRACT NO. 88939				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41A)BR	McDONOUGH	58	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-94-025-99				

AVAILABILITY OF ELECTRONIC FILES

Micro Station and GEOPAK files of this project will be made available to the Contractor. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

UTILITIES - LOCATIONS / INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

TREE REMOVAL - UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocations.

PLAN ELEVATIONS - U. S. G. S. MEAN SEA LEVEL DATUM

Use one of the following two options.

1. All elevations shown on the plans are established from U. S. G. S. mean sea level datum.
2. All elevations shown refer to U. S. G. S. datum at mean sea level unless otherwise noted.

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

A Nationwide 404 Permit Type #14 has been approved for this project.

TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

BRIDGE OVERLAY NOTIFICATION

After placement of the bridge deck overlay, the Resident Engineer shall notify the District Bridge Maintenance Engineer of the "as constructed" milling depth and overlay thickness for updating the Illinois Highway Information System.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * A location map showing the size limits and location of the use area
- * Signed property owner agreement form
- * Color photographs depicting the use area

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

SEEDING - SIDE SLOPE RIPPING

All slopes steeper than 3 to 1 and over 4.5 m (15 ft.) in height shall be ripped. This shall consist of ripping between 450 mm to 600 mm (18 inches to 24 inches) deep normal to the slope. The interval of ripping along the slope shall be 3.6 m (12 ft.). This work shall be done after the seed bed has been prepared but before any fertilizer or seed has been applied. The fertilizer and seed shall be applied within a 24-hour period after the ripping has been done. This work will not be paid for separately but will be included in the cost of the various items of seeding involved.

AGGREGATE (DESCRIPTION), TYPE B

Aggregate (Description), Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

AGGREGATE FOR DRIVEWAY REPLACEMENT

The material used for construction of permanent aggregate driveways shall be gravel or crushed stone as directed by the Engineer, to replace in kind the existing aggregate driveways.

No additional compensation shall be provided for this requirement but shall be considered as included in the cost of the pay item for the aggregate as specified on the plans.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & GENERAL NOTES

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41A)BR	McDONOUGH	58	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-94-025-99				

GENERAL NOTES

BITUMINOUS CONCRETE MIXTURE REQUIREMENTS

Mixture Use(s):	BIT. CONCRETE SURFACE CSE.	BIT. CONCRETE LVL. BINDER	BIT. CONCRETE BINDER CSE. & BITUMINOUS SHLD. (BOTTOM LIFT)	BITUMINOUS SHLD. (TOP LIFT)
RAP % (Max)**:	15%	0%	25%	30%
ACPC:	PG 64-22	SBR or SBS PG 70-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 9.5 OR 12.5	IL 4.75	IL 19.0	IL 9.5L
Friction Aggregate	MIXTURE D	N/A	N/A	MIXTURE C

** If the RAP option is selected, the asphalt cement grade may need to be adjusted; this will be determined by the Engineer.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the bituminous surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 20 mm (3/4 inch) wide, 125 mm (5 inches) high and 15 mm (5/8 inch) deep.

The pavement station numbers shall be installed as specified herein:

Interval - 100 meters (metric stationing) or 200 feet (English stationing)

Bottom of Numbers - 150 mm (6 inches) from the inside edge of the pavement marking

Location:

- * 2,3, & 5 Lane Pavements - right edge of pavement in direction of increasing stations
- * Multi-Lane Divided Roadways - outside edge of pavement in both directions
- * Ramps - along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format - Metric (English) pavement stations shall use this format (XX+X00" (XXX")) where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

STATUS OF UTILITIES TO BE ADJUSTED

Company	Offset	Location	Type of Utility	Type of Conflict	Disposition
AmerenCIPS (Electric)	30' RT	565 + 60	Power Pole	Fill	Relocate
AmerenCIPS (Electric)	30' RT	568 + 53	Power Pole	Fill	Relocate
McDonough Telephone	30' LT	564 + 15 to 565 + 30	Buried Telephone	Cut	Relocate
McDonough Telephone	28' LT	565 + 50 to 569 + 00	Buried Telephone	Benching	Caution
McDonough Telephone	32' LT	569 + 20 to 570 + 75	Buried Telephone	Cut	Relocate

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & STATUS OF UTILITIES

SCALE: VERT. DATE
HORIZ.

DRAWN BY
CHECKED BY

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F. & P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ALIGNED	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FED-STATE 80%-20% X020-2A MCDONOUGH	FED-STATE 80%-20% SFTY-3N MCDONOUGH
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	650	650	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	119	119	
20200100	EARTH EXCAVATION	CU YD	5300	5300	
20300100	CHANNEL EXCAVATION	CU YD	100	100	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	45	45	
21101615	TOP SOIL FURNISH AND PLACE, 4"	SQ YD	4840	4840	
25000300	SEEDING, CLASS 3	ACRE	1	1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2	2	
25002300	TEMPORARY SEEDING	ACRE	1	1	
25100115	MULCH, METHOD 2	ACRE	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	1000	1000	
28000300	TEMPORARY DITCH CHECKS	EACH	5	5	
28000400	PERIMETER EROSION BARRIER	FOOT	825	825	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100105	STONE RIPRAP, CLASS A3	SQ YD	1223	1223	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1015	1015	
28200200	FILTER FABRIC	SQ YD	2238	2238	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	20.5	20.5	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	500	500	
40600300	AGGREGATE (PRIME COAT)	TON	1.2	1.2	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	274	274	
40600990	TEMPORARY RAMP	SQ YD	862.2	862.2	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	236	236	
42001300	PROTECTIVE COAT	SQ YD	354	354	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	50.7	50.7	
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	440	440	
44000100	PAVEMENT REMOVAL	SQ YD	292	292	
44000920	BITUMINOUS CONCRETE SHOULDER REMOVAL	SQ YD	96.2	96.2	
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	14.7	14.7	
48202800	BITUMINOUS SHOULDERS SUPERPAVE 10"	SQ YD	444.9	444.9	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FED-STATE 80%-20% X020-2A MCDONOUGH	FED-STATE 80%-20% SFTY-3N MCDONOUGH
48202900	BITUMINOUS SHOULDERS SUPERPAVE (VARIABLE DEPTH)	SQ YD	222.2	222.2	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	34	34	
50200100	STRUCTURE EXCAVATION	CU YD	124	124	
50300100	FLOOR DRAINS	EACH	6	6	
50300225	CONCRETE STRUCTURES	CU YD	103.9	103.9	
50300255	CONCRETE SUPER STRUCTURES	CU YD	156.2	156.2	
50300260	BRIDGE DECK GROOVING	SQ YD	270	270	
50300300	PROTECTIVE COAT	SQ YD	354	354	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37040	37040	
51201100	FURNISHING METAL PILE SHELLS 14"	FOOT	1821	1821	
51202600	DRIVING AND FILLING SHELLS	FOOT	1821	1821	
51203200	TEST PILE METAL SHELLS	EACH	2	2	
51205200	TEMPORARY SHEET PILING	SQ FT	1334	1334	
51500100	NAME PLATES	EACH	1	1	
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	34	34	
54215547	METAL END SECTIONS 12"	EACH	4	4	
54215553	METAL END SECTIONS 18"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	31	31	
60100945	PIPE DRAINS 12"	FOOT	116	116	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	97	97	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	3.5	3.5	
60900240	TYPE C INLET BOX, STANDARD 609006	EACH	4	4	
60900515	CONCRETE THRUST BLOCKS	EACH	4	4	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	525	525	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100169	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)	EACH	4	4	
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	1040.5	1040.5	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	16	16	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	

SUMMARY OF QUANTITIES

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	5
STA.		TO STA.		
FED. ROAD DIST. NO. 7	BLMUSE	FED. AID PROJECT		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FED-STATE 80%-20% X020-2A MCDONOUGH	FED-STATE 80%-20% SFTY-3N MCDONOUGH
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	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	8428	8428	
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	2580	2580	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2810	2810	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	587.5	587.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5	
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2580	2580	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
78200520	BARRIER WALL MARKERS, TYPE B	EACH	2	2	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	582	582	
Z0002600	BAR SPLICERS	EACH	196	196	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0020800	EROSION CONTROL CURB	Foot	648	648	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3"	EACH	4		4
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3"	EACH	2		2
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	197	197	
X0321475	PIPE ELBOW, 12"	EACH	8	8	
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPER PAVE, MIX"D", N50	TON	239	239	
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPER PAVE, IL-19.0 N50	TONS	517.6	517.6	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	1	
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	1	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FED-STATE 80%-20% X020-2A MCDONOUGH	
A2002014	TREE AESCULUS GLABRA (OHIO BUCKEYE) 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3	3	
A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1 3/4" CALIPER, BALLED AND BURLAPPED	EACH	7	7	
A2005014	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEE TREE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	5	5	
A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7	7	
A2006708	TREE, QUERCUS MACROCARPA (BUR OAK), 1" CALIPER, BALLED AND BURLAPPED	EACH	5	5	
B2001164	TREE, CERCIS CANADENSIS (EASTERN REDBUD) 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	5	5	
B2006214	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	15	15	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-94-025-99				

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	QUANTITY (UNIT)
STATION	
RIGHT SIDE NORTH OF CREEK	72
LEFT SIDE NORTH OF CREEK	28
RIGHT SIDE SOUTH OF CREEK	281
LEFT SIDE SOUTH OF CREEK	291
TOTAL =	650

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	QUANTITY (UNIT)
STATION	
RIGHT SIDE NORTH OF CREEK	0
LEFT SIDE NORTH OF CREEK	0
RIGHT SIDE SOUTH OF CREEK	101
LEFT SIDE SOUTH OF CREEK	18
TOTAL =	119

20200100 EARTH EXCAVATION

LOCATION	EARTH EXCAVATION CU. YD.	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU. YD.	EMBANKMENT CU. YD.	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU. YD.
STATION				
NORTH OF BRIDGE	1682.1	1345.7	1300.2	+45.6
SOUTH OF BRIDGE	3610.8	2888.7	2701.3	+187.4
TOTAL =	5292.9	4234.3	4001.5	+232.8

28000300 TEMPORARY DITCH CHECKS

LOCATION	QUANTITY (EACH)
STATION	
RIGHT SIDE	
STA. 566+75	1
STA. 568+25	1
LEFT SIDE	
STA. 566+75	1
STA. 568+25	1
STA. 569+25	1
TOTAL =	5

28000500 INLET AND PIPE PROTECTION

LOCATION	QUANTITY (EACH)
STATION	
STA. 564+48.9 OFF. 33.4, LT.	1
TOTAL =	1

28100105 STONE RIPRAP, CLASS A3

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+00 TO STA. 566+50, RT.	382
STA. 564+00 TO STA. 566+00, LT.	260
STA. 566+50 TO STA. 571+00, RT.	347
STA. 566+75 TO STA. 571+00, LT.	234
TOTAL =	1223

40200800 AGGREGATE SURFACE COURSE, TYPE B

LOCATION	QUANTITY (TON)
STATION	
STA. 564+85.5, LT.	20.5
TOTAL =	20.5

40600100 BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	QUANTITY (GALLON)
STATION	
STA. 564+45 TO 566+73.5	250.0
STA. 568+09.5 TO 570+30	250.0
TOTAL =	500.0

40600380 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+15 TO 564+45	80.0
STA. 570+30 TO 570+60	80.0
STA. 566+58.5 TO 568+73.5	56.7
STA. 568+09.5 TO 568+24.5	56.7
TOTAL =	273.4

40600590 TEMPORARY RAMP

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+15	13.3
STA. 566+13	40.0
STA. 565+73.5 TO 566+73.5	377.8
STA. 565+73.5 TO 566+73.5	377.8
STA. 568+75	40.0
STA. 570+60	13.3
TOTAL =	862.2

42001165 BRIDGE APPROACH PAVEMENT

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 566+73.5 TO 567+03.5	117.8
STA. 567+79.5 TO 568+09.5	117.8
TOTAL =	235.6

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 566+67.5 TO 566+73.5, RT.	25.3
STA. 568+09.5 TO 568+15.5, RT.	25.3
TOTAL =	50.7

44000006 BITUMINOUS SURFACE REMOVAL 1 1/2"

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+45 TO STA. 566+30	226.7
STA. 569+50 TO STA. 570+30	213.3
TOTAL =	440.0

44000100 PAVEMENT REMOVAL

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 566+70.5 TO STA. 567+18.8	128.8
STA. 567+51.3 TO STA. 568+12.5	163.2
TOTAL =	292.0

60600095 CLASS SI CONCRETE (OUTLET)

LOCATION	QUANTITY (CU. YD.)
STATION	
STA. 563+62, LT.	3.5
TOTAL =	3.5

44000920 BITUMINOUS CONCRETE SHOULDER REMOVAL

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+34.2 TO STA. 565+35.0, LT.	76.5
STA. 568+92 TO STA. 567+19, LT.	9.0
STA. 567+68 TO STA. 568+00, LT.	10.7
TOTAL =	96.2

48202600 BITUMINOUS SHOULDERS SUPERPAVE 8"

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 566+92 TO STA. 567+19, LT.	9.0
STA. 567+51.0 TO STA. 567+68.0, LT.	5.7
TOTAL =	14.7

48202800 BITUMINOUS SHOULDERS SUPERPAVE 10"

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 564+15.0 TO STA. 565+23.5, RT.	55.3
STA. 563+98.0 TO STA. 566+73.5, LT.	166.3
STA. 569+09.5 TO STA. 570+60.0, RT.	83.9
STA. 568+09.5 TO STA. 570+60.0, LT.	139.4
TOTAL =	444.9

48202900 BITUMINOUS SHOULDERS SUPERPAVE (VARIABLE DEPTH)

LOCATION	QUANTITY (SQ. YD.)
STATION	
STA. 565+23.5 TO STA. 566+73.5, RT.	83.3
STA. 565+73.5 TO STA. 566+73.5, LT.	55.8
STA. 568+09.5 TO STA. 570+09.5, RT.	111.1
STA. 568+09.5 TO STA. 569+09.5, LT.	65.8
TOTAL =	222.2

50105220 PIPE CULVERT REMOVAL

LOCATION	QUANTITY (FOOT)
STATION	
STA. 564+65.5, LT.	34
TOTAL =	34

542D0223 PIPE CULVERTS, CLASS D, TYPE I 18"

LOCATION	QUANTITY (FOOT)
STATION	
STA. 564+65.5, LT.	34
TOTAL =	34

54215547 METAL END SECTIONS 12"

LOCATION	QUANTITY (EACH)
STATION	
STA. 566+90.0, BOTH LT. AND RT.	2
STA. 567+93.0, BOTH LT. AND RT.	2
TOTAL =	4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SN 055-0048
SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-94-025-99				

54215553 METAL END SECTIONS 18"

LOCATION	QUANTITY (EACH)
STATION, OFFSET	
STA. 584+48.9 OFF. 33.4' LT.	1
STA. 584+82.4 OFF. 32.8' LT.	1
TOTAL =	2

60100945 PIPE DRAINS 12"

LOCATION	QUANTITY (FOOT)
STATION	
STA. 586+80.0, RT.	30.0
STA. 586+90.0, LT.	28.0
STA. 587+93.0, RT.	30.0
STA. 587+93.0, LT.	28.0
TOTAL =	116.0

60900240 TYPE C INLET BOX, STANDARD 609006

LOCATION	QUANTITY (EACH)
STATION	
STA. 586+80.0, BOTH LT. AND RT.	2
STA. 587+93.0, BOTH LT. AND RT.	2
TOTAL =	4

60900515 CONCRETE THRUST BLOCKS

LOCATION	QUANTITY (EACH)
STATION	
STA. 586+80.0, BOTH LT. AND RT.	2
STA. 587+93.0, BOTH LT. AND RT.	2
TOTAL =	4

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A

LOCATION	QUANTITY (FOOT)
STATION	
STA. 585+85.35 TO STA. 586+72.85, LT	87.5
STA. 584+97.85 TO STA. 586+72.85, RT	175.0
STA. 588+10.15 TO STA. 589+85.15, LT	175.0
STA. 588+10.15 TO STA. 588+97.65, RT	87.5
TOTAL =	525.0

63100085 TRAFFIC BARRIER TERMINAL TYPE 6

LOCATION	QUANTITY (EACH)
STATION	
STA. 586+72.85 TO PARAPET, LEFT & RIGHT	2
PARAPET TO STA. 588+10.15, LEFT & RIGHT	2
TOTAL =	4

63100169 TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)

LOCATION	QUANTITY (EACH)
STATION	
STA. 585+35.35 TO STA. 585+85.35, LT	1
STA. 584+47.85 TO STA. 584+97.85, RT	1
STA. 589+85.15 TO STA. 570+35.15, LT	1
STA. 588+97.65 TO STA. 589+47.65, RT	1
TOTAL =	4

66502300 WOVEN WIRE FENCE REMOVAL

LOCATION	QUANTITY (FOOT)
STATION	
STA. 584+00 TO WING WALL, RT.	313.5
WING WALL TO STA. 571+25, RT.	188.0
STA. 585+58.5 TO WING WALL, LT.	375.5
WING WALL TO STA. 569+89.8, LT.	183.5
TOTAL =	1040.5

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

LOCATION	QUANTITY (EACH)
STATION	
RIGHT SIDE	
STA. 584+00, OFF.=30'	1
STA. 584+25, OFF.=85'	1
STA. 585+90, OFF.=85'	1
STA. 586+60, OFF.=77'	1
STA. 588+00, OFF.=77'	1
STA. 589+00, OFF.=83'	1
STA. 570+50, OFF.=83'	1
STA. 571+25, OFF.=30'	1
LEFT SIDE	
STA. 584+00, OFF.=30'	1
STA. 584+25, OFF.=85'	1
STA. 585+00, OFF.=85'	1
STA. 585+50, OFF.=70'	1
STA. 589+50, OFF.=70'	1
STA. 570+00, OFF.=90'	1
STA. 570+50, OFF.=90'	1
STA. 571+00, OFF.=30'	1
TOTAL =	18

28000400 PERIMETER EROSION BARRIER

LOCATION	QUANTITY (FOOT)
STATION	
STA. 586+00 TO STA. 587+00, LT	200
STA. 585+00 TO STA. 587+00, RT	200
STA. 588+00 TO STA. 589+50, LT	150
STA. 587+75 TO STA. 570+50, RT	275
TOTAL =	825

70106700 TEMPORARY RUMBLE STRIP

LOCATION	QUANTITY (EACH)
STATION	
JOBSITE	6
TOTAL =	6

70300520 PAVEMENT MARKING TAPE, TYPE III 4"

LOCATION	QUANTITY (FOOT)
STAGE 1	
STA. 585+23.5 TO STA. 589+59.5	872.0
STOP BARS	144.0
STAGE 2	
STA. 585+23.5 TO STA. 589+59.5	872.0
STAGE 3	
*Estimated	6540.0
TOTAL =	8428.0

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

LOCATION	QUANTITY (SQ. FT.)
STAGE 1	
STA. 585+23.5 TO STA. 589+59.5	290.7
STOP BARS	48.0
STAGE 2	
STA. 585+23.5 TO STA. 589+59.5	290.7
STAGE 3	
Estimated	2180.0
TOTAL =	2809.3

70400100 TEMPORARY CONCRETE BARRIER

LOCATION	QUANTITY (FOOT)
STATION	
STA. 585+23.5 TO STA. 589+09.5	487.5
STA. 588+92 TO STA. 587+68	50.0
STA. 587+51 TO STA. 587+68	50.0
TOTAL =	587.5

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	QUANTITY (FOOT)
STATION	
STA. 585+23.5 TO STA. 570+09.5	487.5
TOTAL =	487.5

70300625 TEMPORARY PAINT PAVEMENT MARKING - LINE 4"
78005110 EPOXY PAVEMENT MARKING - LINE 4"

LOCATION	QUANTITY (FOOT)
STATION	
STA. 584+15.0 TO STA. 570+60.0, RT.	645.0
STA. 584+15.0 TO STA. 570+80.0, LT.	645.0
STA. 584+15.0 TO STA. 570+60.0, CENTER	1290.0
TOTAL =	2580.0

78200410 GUARDRAIL MARKERS, TYPE A

LOCATION	QUANTITY (EACH)
STATION	
RIGHT SIDE	
STA. 584+97.85	1
STA. 585+47.85	1
STA. 585+97.85	1
STA. 586+47.85	1
STA. 586+97.85	1
STA. 587+97.85	1
STA. 588+47.85	1
STA. 588+97.85	1
LEFT SIDE	
STA. 589+85.15	1
STA. 589+35.15	1
STA. 588+85.15	1
STA. 588+35.15	1
STA. 587+85.15	1
STA. 589+85.15	1
STA. 586+35.15	1
STA. 585+85.15	1
TOTAL =	16

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SN 055-0048
SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-ABR	MCDONOUGH	58	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-94-025-99				

SCHEDULE OF QUANTITIES

78200520 BARRIER WALL MARKERS, TYPE B

LOCATION	QUANTITY (EACH)
STATION	
RIGHT SIDE	
STA. 667+47.85	1
LEFT SIDE	
STA. 667+35.15	1
TOTAL =	2

78201000 TERMINAL MARKER - DIRECT APPLIED

LOCATION	QUANTITY (EACH)
STATION	
STA. 665+35.35, LT	1
STA. 664+47.85, RT	1
STA. 570+35.15, LT	1
STA. 669+47.85, RT	1
TOTAL =	4

78300100 PAVEMENT MARKING REMOVAL

LOCATION	QUANTITY (SQ. FT.)
STAGE 1	
STA. 565+23.5 TO 569+59.5 (CENTER AND LEFT)	436.0
STAGE 2	
STA. 565+23.5 TO 569+59.5 (RIGHT)	145.3
TOTAL =	581.3

Z0020800 EROSION CONTROL CURB

LOCATION	QUANTITY (FOOT)
STATION	
STA. 565+85.35 TO STA. 567+03.50, LT	118.15
STA. 564+97.85 TO STA. 567+03.50, RT	205.65
STA. 567+79.50 TO STA. 569+95.15, LT	205.65
STA. 567+79.50 TO STA. 568+97.85, RT	118.15
TOTAL =	647.6

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	QUANTITY (EACH)
STATION	
STA. 565+23.5, RT.	1
STA. 568+92.0, LT.	1
STA. 569+59.5, RT.	1
STA. 567+88.0, LT.	1
TOTAL =	4

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	QUANTITY (EACH)
STATION	
STA. 565+23.5	1
STA. 570+09.5	1
TOTAL =	2

X030151Z GUARDRAIL AGGREGATE EROSION CONTROL

LOCATION	QUANTITY (TON)
STATION	
STA. 564+25.35 TO STA. 567+03.50, RT	55.4
STA. 565+12.85 TO STA. 567+03.50, LT	42.5
STA. 567+79.50 TO STA. 569+70.15, RT	42.5
STA. 567+79.50 TO STA. 570+60.00, LT	56.4
TOTAL =	196.8

X0321475 PIPE ELBOW, 12"

LOCATION	QUANTITY (EACH)
STATION	
STA. 566+90.0, RT.	2
STA. 566+90.0, LT.	2
STA. 567+93.0, RT.	2
STA. 567+93.0, LT.	2
TOTAL =	8

X4066424 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50

LOCATION	QUANTITY (TON)
STATION	
STA. 564+15.0 TO STA. 566+73.5	91.9
STA. 568+09.5 TO STA. 570+60.0	89.1
TEMPORARY SHOULDER PAVEMENT	
STA. 565+23.5 TO STA. 567+67.5, RT.	6.7
STA. 568+65.5 TO STA. 569+59.5, RT.	6.7
TEMPORARY RAMP	
STA. 565+73.5 TO STA. 566+73.5	22.2
STA. 568+09.5 TO STA. 569+09.5	22.2
TOTAL =	239.0

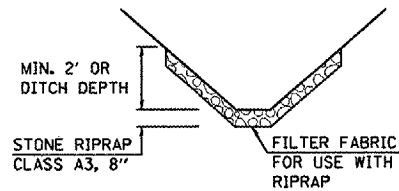
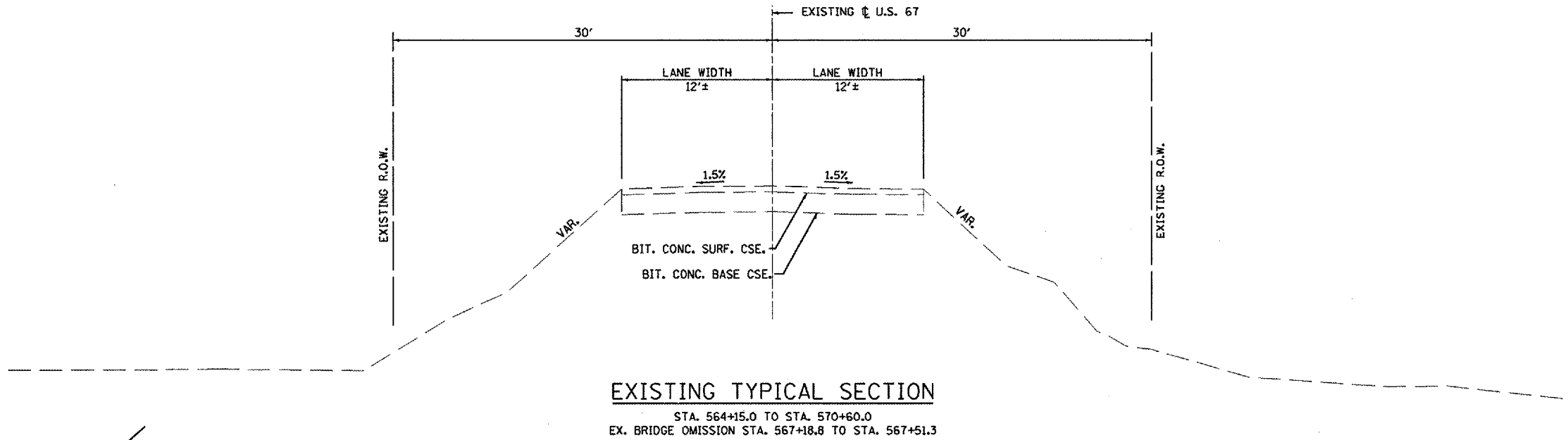
X4066614 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50

LOCATION	QUANTITY (TON)
STATION	
STA. 565+30.0 TO STA. 566+73.5	191.4
STA. 568+09.5 TO STA. 569+60.0	187.4
TEMPORARY SHOULDER PAVEMENT	
STA. 565+23.5 TO STA. 567+67.5, RT.	87.3
STA. 568+65.5 TO STA. 569+59.5, RT.	51.5
TOTAL =	517.6

LOT DATE = 8/16/2005
 D.E. NAME = JAVIERA/050818/050818/050818.dgn
 LOT SCALE = 1/8"=1'-0" / IN.
 SER NAME = hudaibname

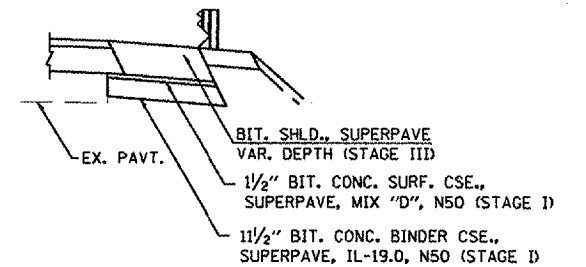
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SN 055-0048 SUMMARY OF QUANTITIES
SCALE: VERT. / HORIZ.	DATE	DRAWN BY / CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



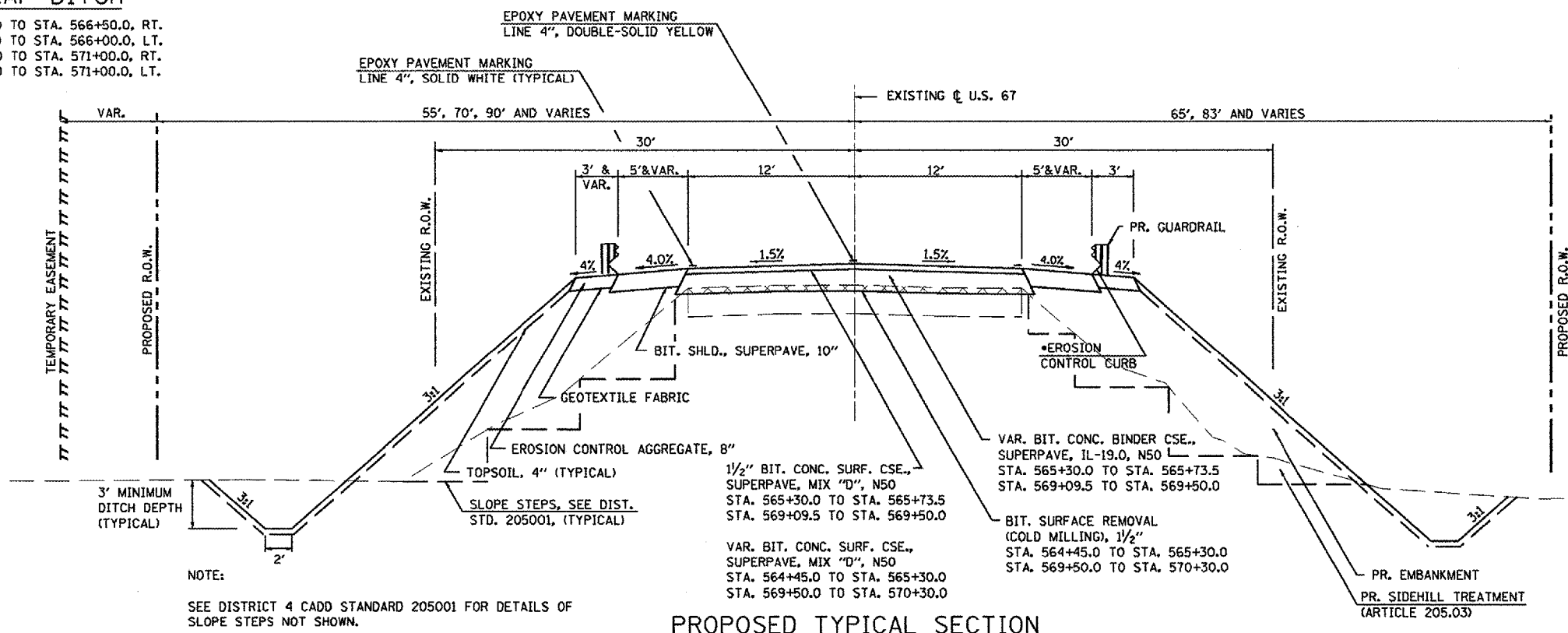
RIPRAP DITCH

STA. 564+00.0 TO STA. 566+50.0, RT.
 STA. 564+00.0 TO STA. 566+00.0, LT.
 STA. 569+50.0 TO STA. 571+00.0, RT.
 STA. 568+75.0 TO STA. 571+00.0, LT.



TEMP. SHLD. PAVT. DETAILS

STA. 565+23.5 TO STA. 566+73.5, RT.
 STA. 568+09.5 TO STA. 570+09.5, RT.
 (SEE MORE DETAILS ON TRAFFIC CONTROL PLAN)



PROPOSED TYPICAL SECTION

STA. 564+45.0 TO STA. 565+73.5
 STA. 569+09.5 TO STA. 570+30.0

BUTT JOINT:
 STA. 564+15.0 TO STA. 564+45.0
 STA. 570+30.0 TO STA. 570+60.0

- *EROSION CONTROL CURB SCHEDULES:
- STA. 565+85.35 TO STA. 567+03.50, LEFT
 - STA. 564+97.85 TO STA. 567+03.50, RIGHT
 - STA. 567+79.50 TO STA. 569+85.15, LEFT
 - STA. 567+79.50 TO STA. 568+97.65, RIGHT

NOTE:
 SEE DISTRICT 4 CADD STANDARD 205001 FOR DETAILS OF SLOPE STEPS NOT SHOWN.
 SEE DISTRICT 4 CADD STANDARD 281001 FOR DETAILS OF RIPRAP DITCH FOR EROSION PROTECTION NOT SHOWN.
 SEE DISTRICT 4 CADD STANDARD 630101 FOR DETAILS OF EROSION CONTROL CURB, EROSION CONTROL AGGREGATE AND GEOTEXTILE FABRIC NOT SHOWN.

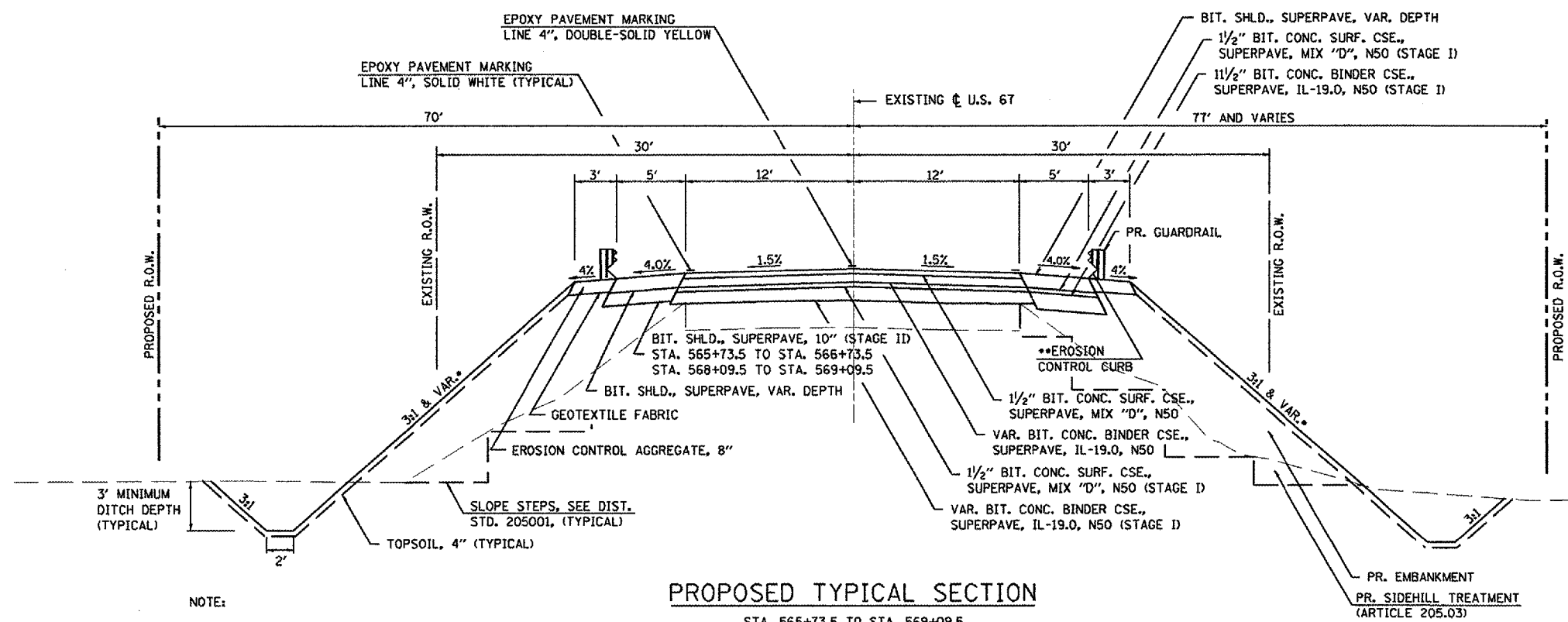
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SN 055-0048
 TYPICAL SECTIONS
 U.S. 67
 SECTION (41A)BR
 McDONOUGH

SCALE: VERT. _____
 HORIZ. _____

DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



*BRIDGE CONE TRANSITION
 TRANSITION FORESLOPE FROM 3:1 TO 2:1 FROM STA. 566+73.5 TO STA. 566+93.5 AND FROM STA. 568+09.5 TO STA. 567+89.5.

**EROSION CONTROL CURB SCHEDULES:
 STA. 565+85.35 TO STA. 567+03.50, LEFT
 STA. 564+97.85 TO STA. 567+03.50, RIGHT
 STA. 567+79.50 TO STA. 569+85.15, LEFT
 STA. 567+79.50 TO STA. 568+97.65, RIGHT

NOTE:
 SEE DISTRICT 4 CADD STANDARD 205001 FOR DETAILS OF SLOPE STEPS NOT SHOWN.
 SEE DISTRICT 4 CADD STANDARD 281001 FOR DETAILS OF RIPRAP DITCH FOR EROSION PROTECTION NOT SHOWN.
 SEE DISTRICT 4 CADD STANDARD 630101 FOR DETAILS OF EROSION CONTROL CURB, EROSION CONTROL AGGREGATE AND GEOTEXTILE FABRIC NOT SHOWN.
 SEE TRAFFIC CONTROL PLAN FOR MORE DETAILS ON TEMP. RAMP AND TEMP. SHOULD PAVEMENT.

PROPOSED TYPICAL SECTION

STA. 565+73.5 TO STA. 569+09.5
 PR. BRIDGE OMISSION STA. 567+03.5 TO STA. 567+79.5

BRIDGE APPROACH PAVEMENT:
 STA. 566+73.5 TO STA. 567+03.5
 STA. 567+79.5 TO STA. 568+09.5

TEMPORARY RAMP
 STA. 565+73.5 TO STA. 566+73.5
 STA. 568+09.5 TO STA. 569+09.5

BUTT JOINT FOR FINAL SURFACE:
 STA. 566+58.5 TO STA. 566+73.5
 STA. 568+09.5 TO STA. 568+24.5

PLOT DATE = 8/19/2006
 FILE NAME = \\s050001\88939\88939.dgn
 PLOT SCALE = 1/8\"/>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SN 055-0048
 TYPICAL SECTIONS
 U.S. 67
 SECTION (41A)BR
 McDONOUGH

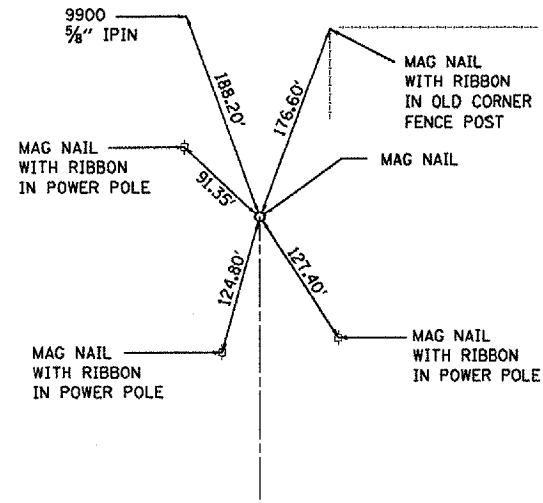
SCALE: VERT. _____
 HORIZ. _____

DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

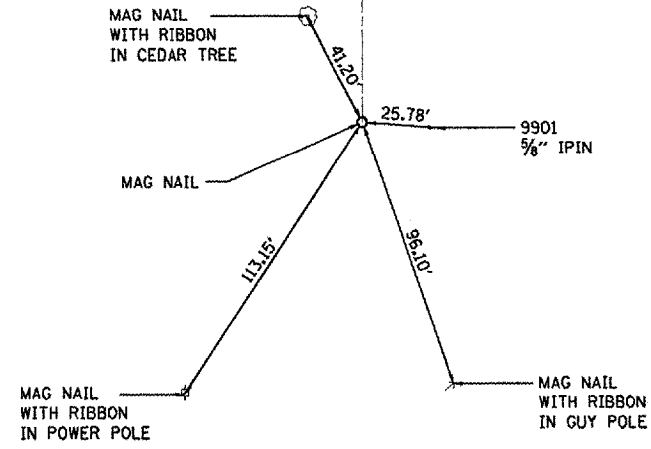
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A CHISELED SQUARE ON THE SOUTHWEST WINGWALL OF EXISTING S.N. 055-0007, ELEVATION 620.90.



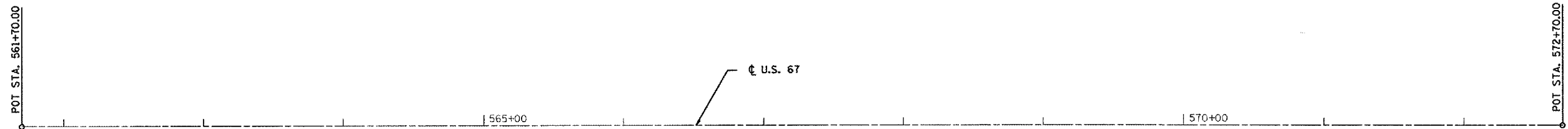
POT STA. 561+70.00

NOT TO SCALE

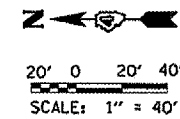


POT STA. 572+70.00

NOT TO SCALE



PLOT DATE = 8/2/2006
 PLOT SCALE = 1" = 40'
 USER NAME = hndalton



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SN 055-0048
 HORIZONTAL ALIGNMENT &
 LOCAL TIES

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-A1BR	McDONOUGH	58	12
STATION		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

REMOVAL LEGEND

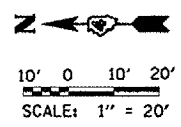
- ✕ TREE REMOVAL
- ++++ FENCE REMOVAL
- ▨ PAVEMENT REMOVAL (INCLUDING APPROACH PVMT.)
- ▧ BIT. CONC. SHLD. REMOVAL
- ▩ BIT. SURFACE REMOVAL - BUTT JOINT
- BIT. SURFACE REMOVAL - (COLD MILLING), 1/2"

UTILITY LEGEND

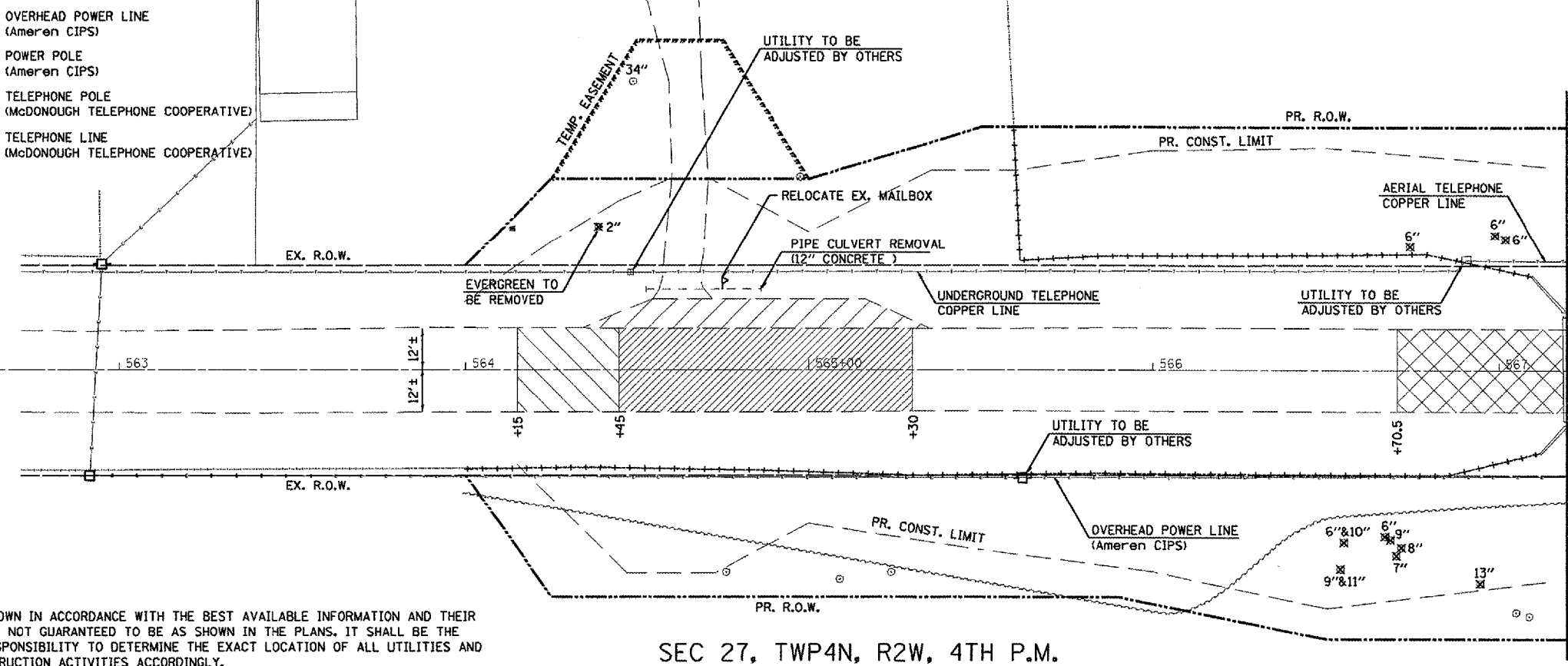
- OVERHEAD POWER LINE (Ameren CIPS)
- POWER POLE (Ameren CIPS)
- TELEPHONE POLE (McDONOUGH TELEPHONE COOPERATIVE)
- TELEPHONE LINE (McDONOUGH TELEPHONE COOPERATIVE)

UTILITY NOTE:

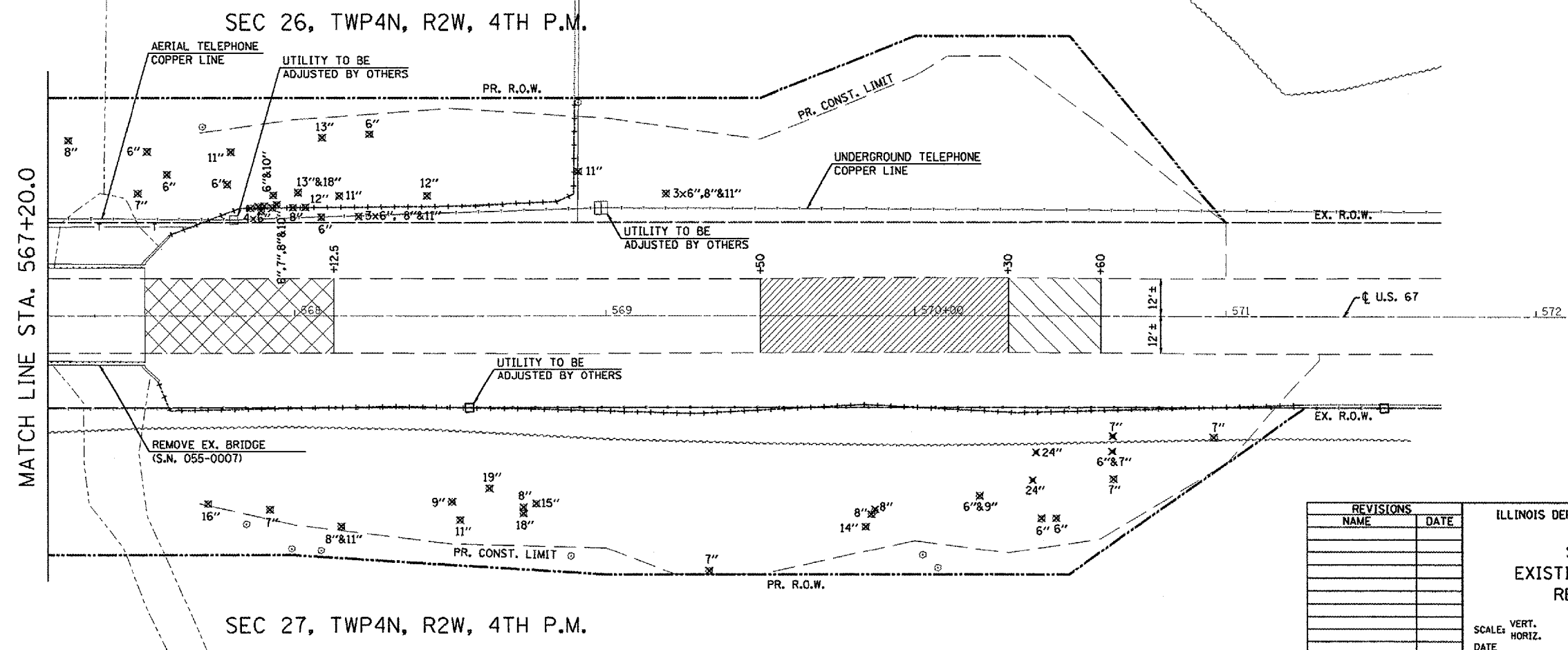
UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN IN THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY OUT CONSTRUCTION ACTIVITIES ACCORDINGLY.



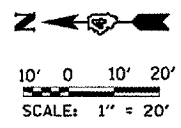
SEC 26, TWP4N, R2W, 4TH P.M.



SEC 27, TWP4N, R2W, 4TH P.M.



SEC 27, TWP4N, R2W, 4TH P.M.



PLOT DATE = 06/28/05
 FILE NAME = 046505081818.dwg
 PLOT SCALE = 1/8" = 1' 3/4"
 USER NAME = hudsonm

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SN 055-0048

EXISTING UTILITIES AND

REMOVAL SHEET

SCALE: VERT. _____

DATE _____

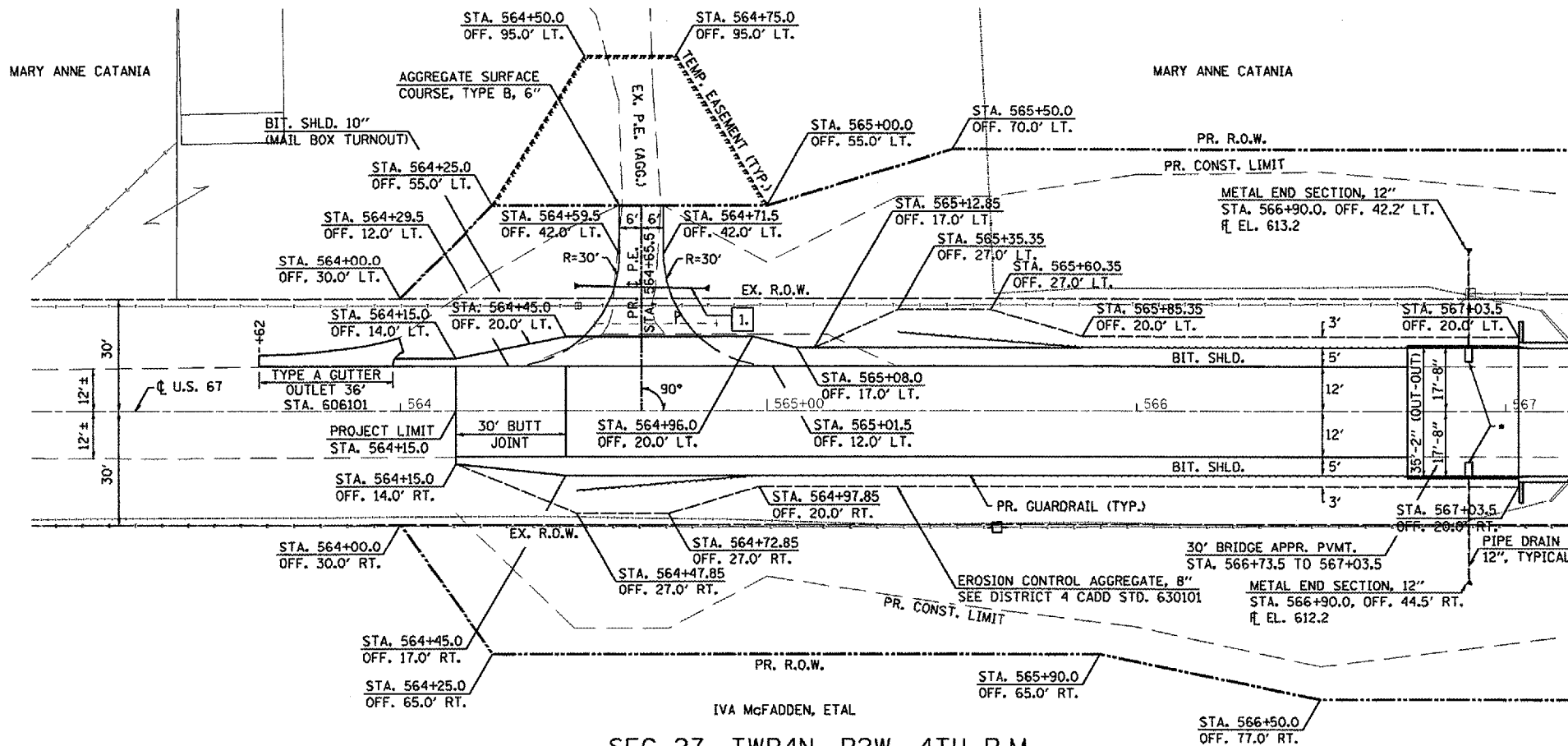
DRAWN BY _____

CHECKED BY _____

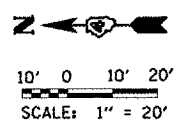
SEC 26, TWP4N, R2W, 4TH P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-A18R	MCDONOUGH	58	13
STA. 563+00.0		TO STA. 567+20.0		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 88939				

GUARDRAIL SCHEDULES NORTH OF PR. BRIDGE:
 TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)
 50' - STA. 565+35.35 TO STA. 565+85.35, LEFT
 50' - STA. 564+47.85 TO STA. 564+97.85, RIGHT
 STEEL PLATE BEAM GUARD RAIL, TYPE A
 87.5' - 7 SECTIONS, STA. 565+85.35 TO STA. 566+72.85, LEFT
 175' - 14 SECTIONS, STA. 564+97.85 TO STA. 566+72.85, RIGHT
 TRAFFIC BARRIER TERMINAL, TYPE 6
 STA. 566+72.85 TO BRIDGE PARAPET, BOTH LEFT & RIGHT
 EROSION CONTROL CURB SCHEDULES:
 STA. 565+85.35 TO STA. 567+03.50, LEFT
 STA. 564+97.85 TO STA. 567+03.50, RIGHT
 STA. 567+79.50 TO STA. 569+85.15, LEFT
 STA. 567+79.50 TO STA. 568+97.65, RIGHT



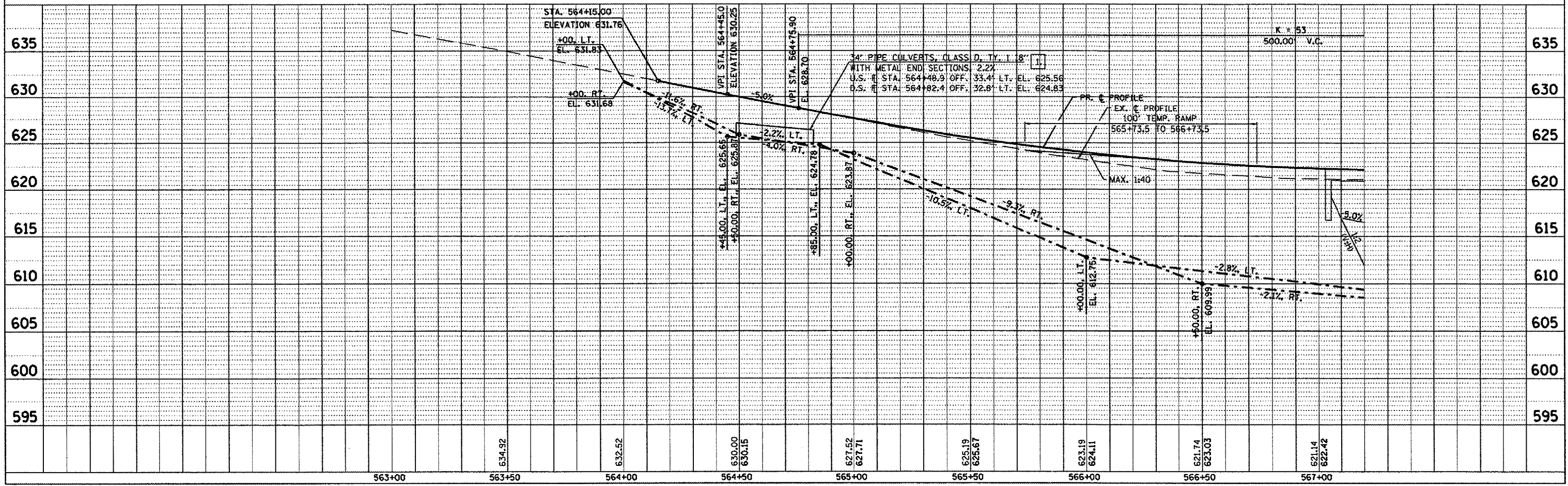
- NOTES:
 1. BENCH MARK:
 A CHISELED SQUARE ON THE SOUTHWEST WINGWALL OF EXISTING S.N. 055-0007, ELEVATION 620.90.
 2. TRANSITION FORESLOPE FROM 3:1 TO 2:1 FROM STA. 566+73.5 TO STA. 566+93.5. SEE CROSS SECTION SHEETS FOR MORE DETAILS.
 3. SEE EROSION CONTROL SHEET, TYPICAL & CROSS SECTION SHEETS AND STRUCTURE GENERAL PLAN AND ELEVATION SHEET FOR DETAILS OF STONE RIPRAP NOT SHOWN.



MATCH LINE STA. 567+20.00

*TYPE C INLET BOX STD. 609006, TYP. STA. 566+90.0

SEC 27, TWP4N, R2W, 4TH P.M.



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

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

SEC 26, TWP4N, R2W, 4TH P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	14
STA. 567+20.0		TO STA. 572+00.0		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GUARDRAIL SCHEDULES SOUTH OF PR. BRIDGE CONTRACT NO. 88939

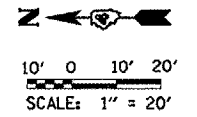
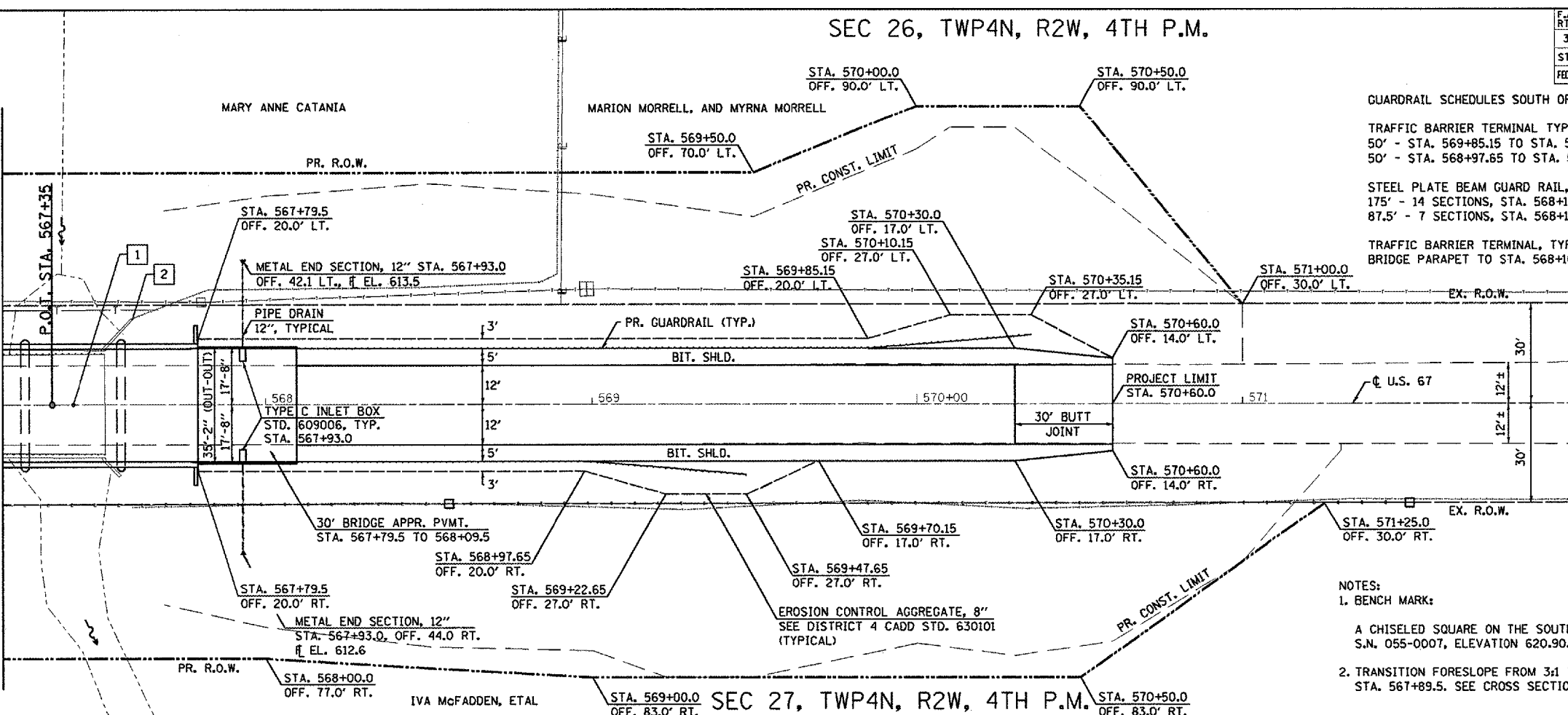
TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)
 50' - STA. 569+85.15 TO STA. 570+35.15, LEFT
 50' - STA. 568+97.65 TO STA. 569+47.65, RIGHT

STEEL PLATE BEAM GUARD RAIL, TYPE A
 175' - 14 SECTIONS, STA. 568+10.15 TO STA. 569+85.15, LEFT
 87.5' - 7 SECTIONS, STA. 568+10.15 TO STA. 568+97.65, RIGHT

TRAFFIC BARRIER TERMINAL, TYPE 6
 BRIDGE PARAPET TO STA. 568+10.15, BOTH LEFT & RIGHT

- PROPOSED STRUCTURE (S.N. 055-0048)
 @ STA. 567+41.50, SKEW = 0°
- REMOVE EX. BRIDGE (S.N. 055-0007)
 AND APPROACH PAVEMENT

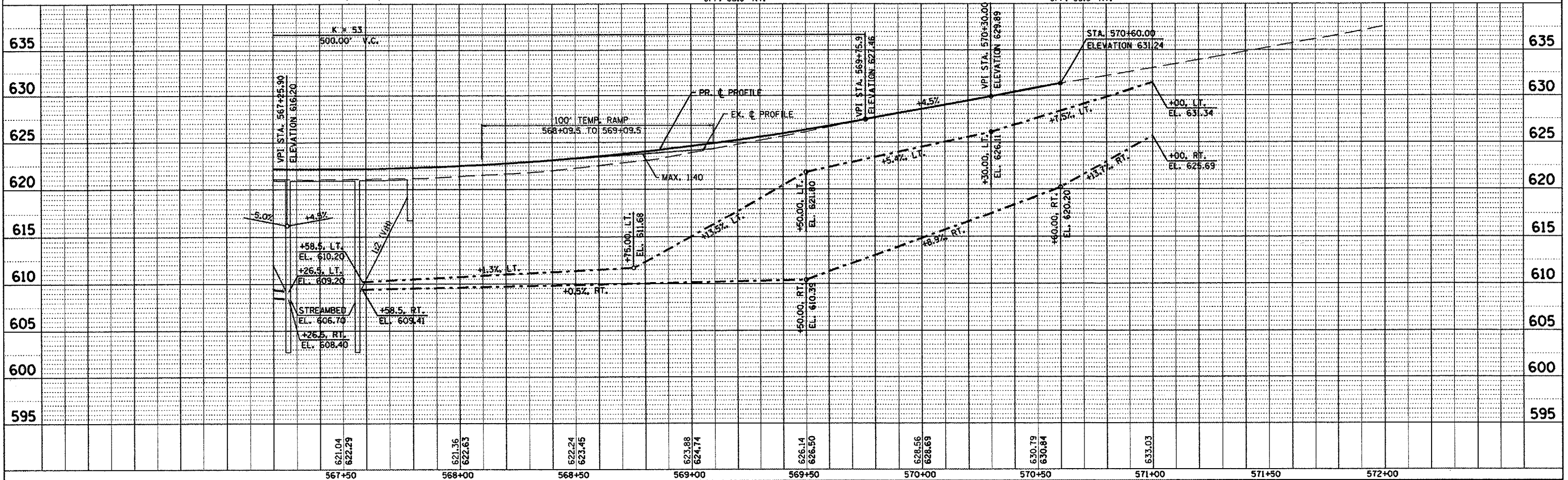
MATCH LINE STA. 567+20.00



- NOTES:
- BENCH MARK:
 A CHISELED SQUARE ON THE SOUTHWEST WINGWALL OF EXISTING S.N. 055-0007, ELEVATION 620.90.
 - TRANSITION FORESLOPE FROM 3:1 TO 2:1 FROM STA. 568+09.5 TO STA. 567+89.5. SEE CROSS SECTION SHEETS FOR MORE DETAILS.

PLAN	DATE
SURVEYED	
NOTED	
BY	

PROFILE	DATE
SURVEYED	
NOTED	
BY	

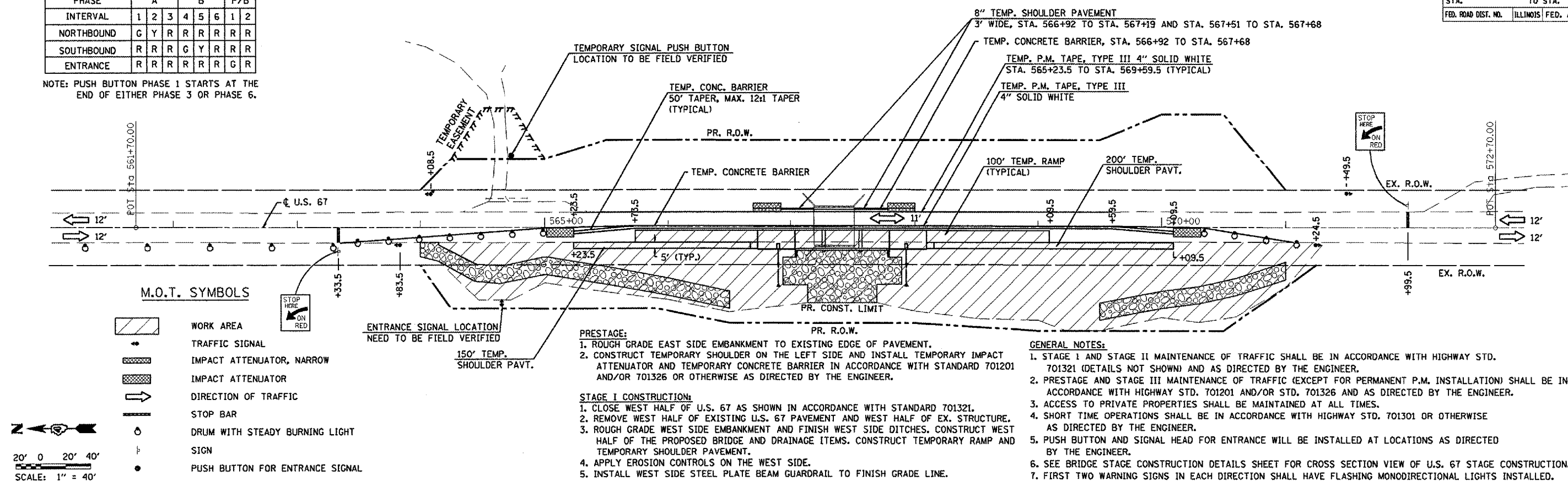


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-AIBR)	MCDONOUGH	58	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MAINTENANCE OF TRAFFIC - STAGE I

SEQUENCE OF OPERATIONS								
PHASE	A	B	P/B					
INTERVAL	1	2	3	4	5	6	1	2
NORTHBOUND	G	Y	R	R	R	R	R	R
SOUTHBOUND	R	R	R	G	Y	R	R	R
ENTRANCE	R	R	R	R	R	R	G	R

NOTE: PUSH BUTTON PHASE 1 STARTS AT THE END OF EITHER PHASE 3 OR PHASE 6.



M.O.T. SYMBOLS

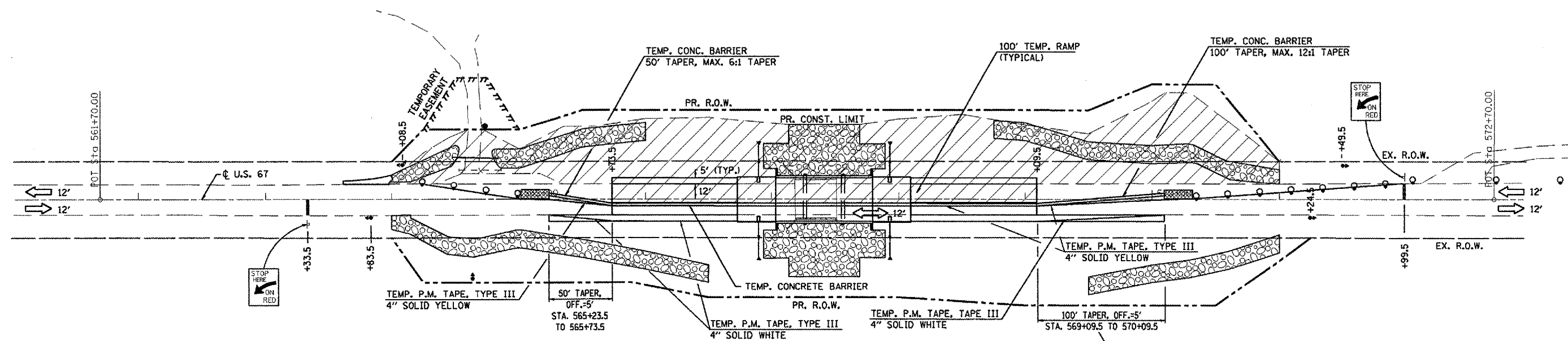
- WORK AREA
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR, NARROW
- IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- STOP BAR
- DRUM WITH STEADY BURNING LIGHT
- SIGN
- PUSH BUTTON FOR ENTRANCE SIGNAL

20' 0 20' 40'
SCALE: 1" = 40'

- PRESTAGE:**
- ROUGH GRADE EAST SIDE EMBANKMENT TO EXISTING EDGE OF PAVEMENT.
 - CONSTRUCT TEMPORARY SHOULDER ON THE LEFT SIDE AND INSTALL TEMPORARY IMPACT ATTENUATOR AND TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH STANDARD 701201 AND/OR 701326 OR OTHERWISE AS DIRECTED BY THE ENGINEER.
- STAGE I CONSTRUCTION:**
- CLOSE WEST HALF OF U.S. 67 AS SHOWN IN ACCORDANCE WITH STANDARD 701321.
 - REMOVE WEST HALF OF EXISTING U.S. 67 PAVEMENT AND WEST HALF OF EX. STRUCTURE.
 - ROUGH GRADE WEST SIDE EMBANKMENT AND FINISH WEST SIDE DITCHES, CONSTRUCT WEST HALF OF THE PROPOSED BRIDGE AND DRAINAGE ITEMS. CONSTRUCT TEMPORARY RAMP AND TEMPORARY SHOULDER PAVEMENT.
 - APPLY EROSION CONTROLS ON THE WEST SIDE.
 - INSTALL WEST SIDE STEEL PLATE BEAM GUARDRAIL TO FINISH GRADE LINE.

- GENERAL NOTES:**
- STAGE I AND STAGE II MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH HIGHWAY STD. 701321 (DETAILS NOT SHOWN) AND AS DIRECTED BY THE ENGINEER.
 - PRESTAGE AND STAGE III MAINTENANCE OF TRAFFIC (EXCEPT FOR PERMANENT P.M. INSTALLATION) SHALL BE IN ACCORDANCE WITH HIGHWAY STD. 701201 AND/OR STD. 701326 AND AS DIRECTED BY THE ENGINEER.
 - ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
 - SHORT TIME OPERATIONS SHALL BE IN ACCORDANCE WITH HIGHWAY STD. 701301 OR OTHERWISE AS DIRECTED BY THE ENGINEER.
 - PUSH BUTTON AND SIGNAL HEAD FOR ENTRANCE WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
 - SEE BRIDGE STAGE CONSTRUCTION DETAILS SHEET FOR CROSS SECTION VIEW OF U.S. 67 STAGE CONSTRUCTION.
 - FIRST TWO WARNING SIGNS IN EACH DIRECTION SHALL HAVE FLASHING MONODIRECTIONAL LIGHTS INSTALLED.

MAINTENANCE OF TRAFFIC - STAGE 2



STAGE II CONSTRUCTION:

- CLOSE EAST HALF OF U.S. 67 AS SHOWN IN ACCORDANCE WITH STANDARD 701321. APPLY TEMPORARY PAVEMENT MARKING TAPES.
- REMOVE EAST HALF OF EXISTING U.S. 67 PAVEMENT AND REMAINING EX. STRUCTURE.
- ROUGH GRADE EAST SIDE EMBANKMENT, FINISH EAST SIDE DITCHES, FINISH EAST HALF OF THE PROPOSED BRIDGE AND DRAINAGE ITEMS. CONSTRUCT TEMPORARY RAMP AND SHOULDERS.
- CONSTRUCT ENTRANCE CULVERT AND GUTTER OUTLET. APPLY EROSION CONTROLS ON THE EAST SIDE.

20' 0 20' 40'
SCALE: 1" = 40'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

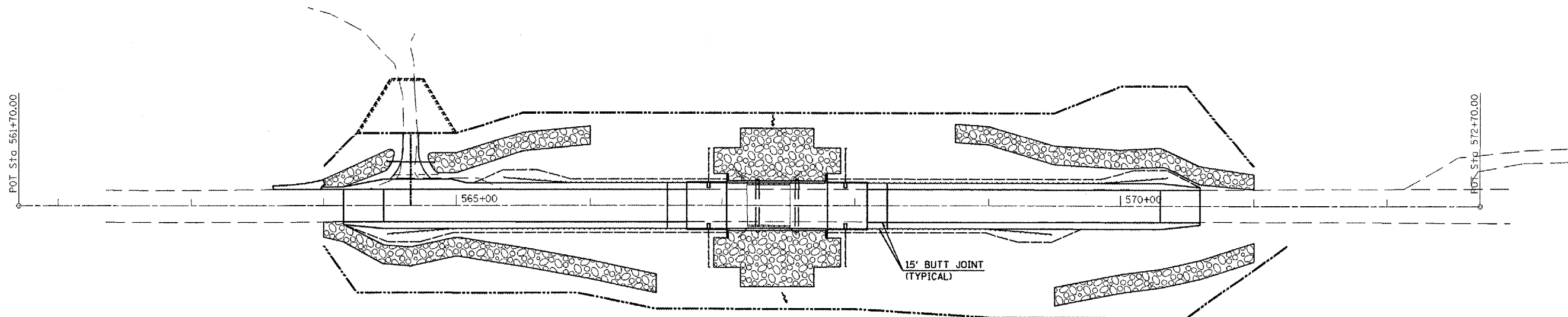
SN 055-0048
TRAFFIC CONTROL PLAN

SCALE: VERT.
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-A18R	McDONOUGH	58	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MAINTENANCE OF TRAFFIC - STAGE III



STAGE III CONSTRUCTION:

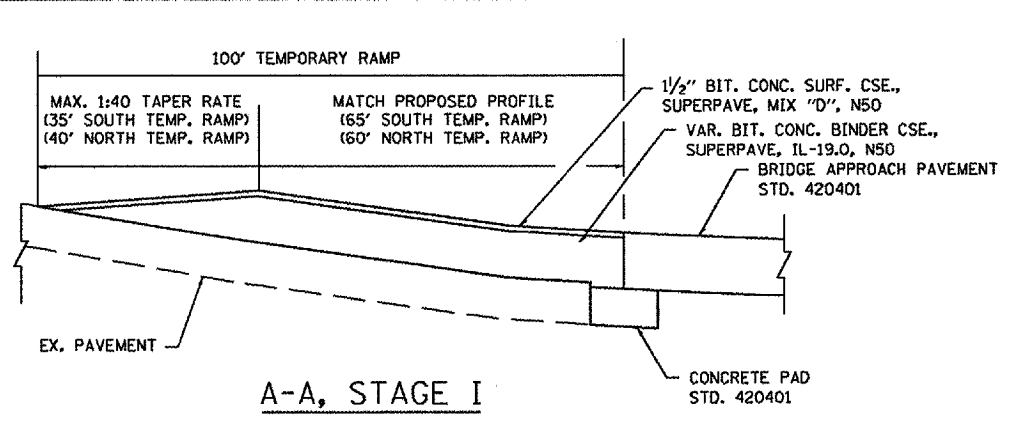
1. CONSTRUCT BINDER, SURFACE COURSES AND BIT. SHOULDERS UNDER STD. 701201.
2. CONSTRUCT PR. ENTRANCE AND MAIL BOX TURNOUT.
3. INSTALL PROPOSED GUARDRAIL.
4. APPLY PERMANENT PAVEMENT MARKINGS UNDER STD. 701311 OR OTHERWISE AS DIRECTED BY THE ENGINEER. COST OF M.O.T. FOR APPLICATION OF P.M. WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT PRICE OF EPOXY PAVEMENT MARKING.

STAGE III NOTES:

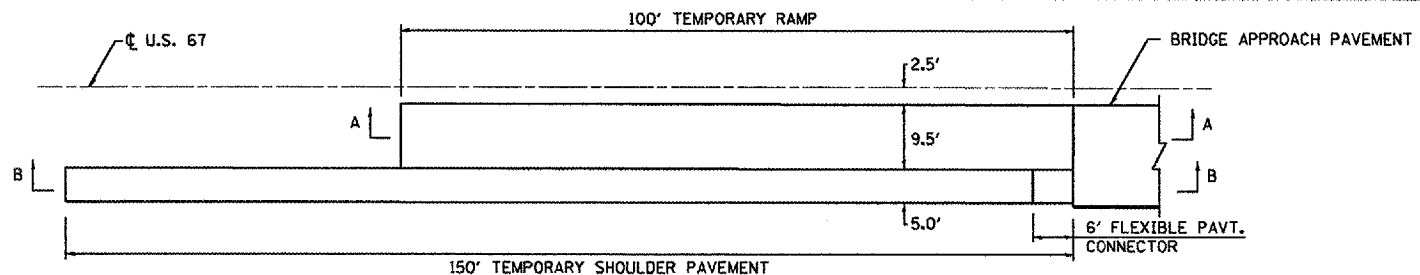
1. AFTER COMPLETION OF A COMPLETE BITUMINOUS LIFT THE EMBANKMENT ADJACENT TO THE ROADWAY WILL BE PLACED TO MAINTAIN DROPOFFS OF 4" OR LESS AND SLOPES NO STEEPER THAN 1:3.
2. DURING PAVING LAYERS, SMOOTH TRANSITIONS SHALL BE PROVIDED FOR U.S. 67. LONGITUDINAL LANE DROPS SHALL BE LESS THAN 4".
3. DURING PAVING OPERATIONS, APPLY SHORT TERM PAVEMENT MARKINGS PRIOR TO OPENING TO TRAFFIC AT THE END OF EACH DAY.
4. BUTT JOINTS SHALL BE CONSTRUCTED DURING THE FINAL SURFACING LAYER OF STAGE III.
5. AT LEAST ONE LANE SHALL BE OPEN TO VEHICLES AT ALL TIMES.
6. PRIOR TO THE INSTALLATION OF GUARDRAIL, TYPE II BARRICADES SHOULD BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.



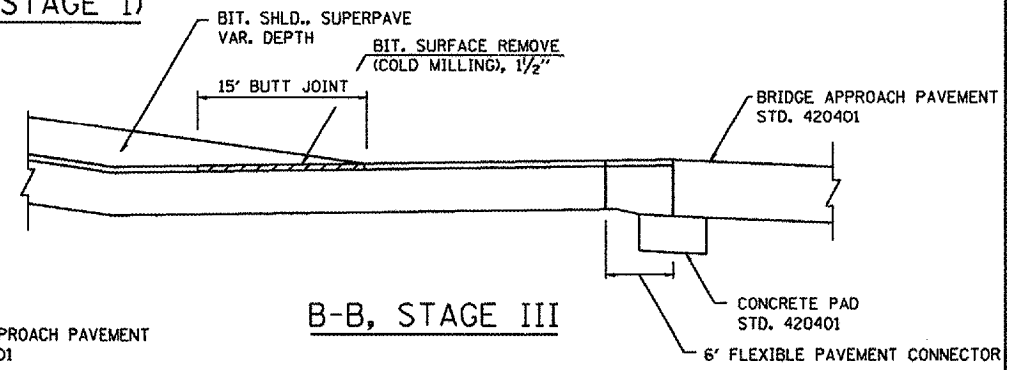
20' 0 20' 40'
SCALE: 1" = 40'



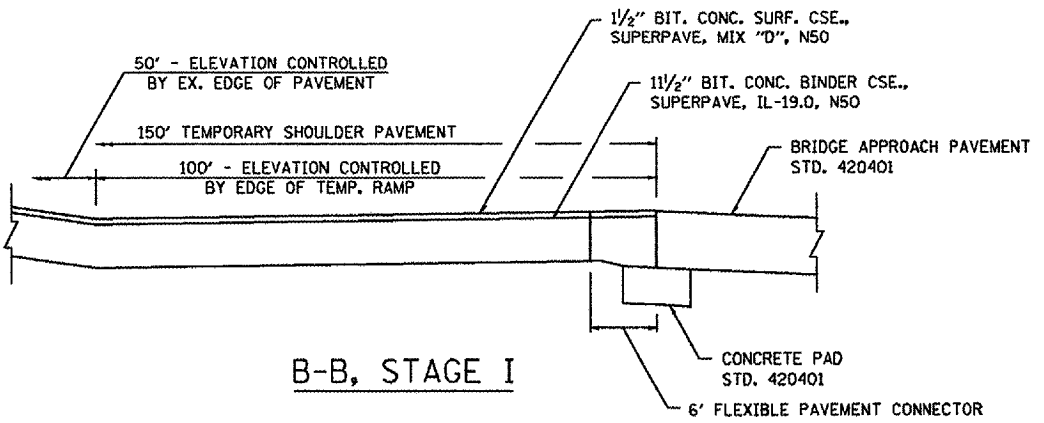
A-A, STAGE I



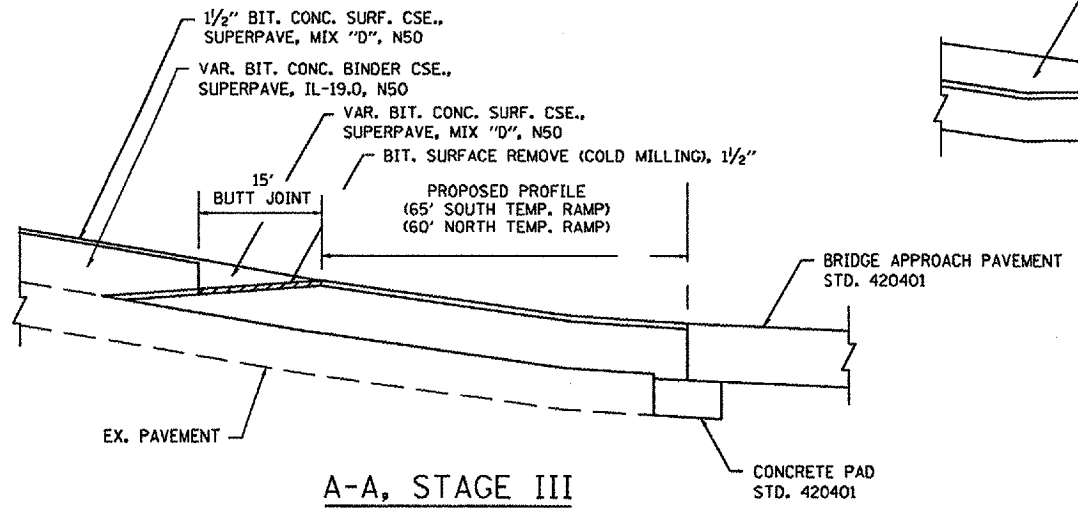
TEMPORARY RAMP DETAILS (STAGE I)



B-B, STAGE III



B-B, STAGE I



A-A, STAGE III

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SN 055-0048
TRAFFIC CONTROL PLAN
SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 8/16/2005
 PLOT SCALE = 1/8" = 40' / IN.
 USER NAME = hudebalson

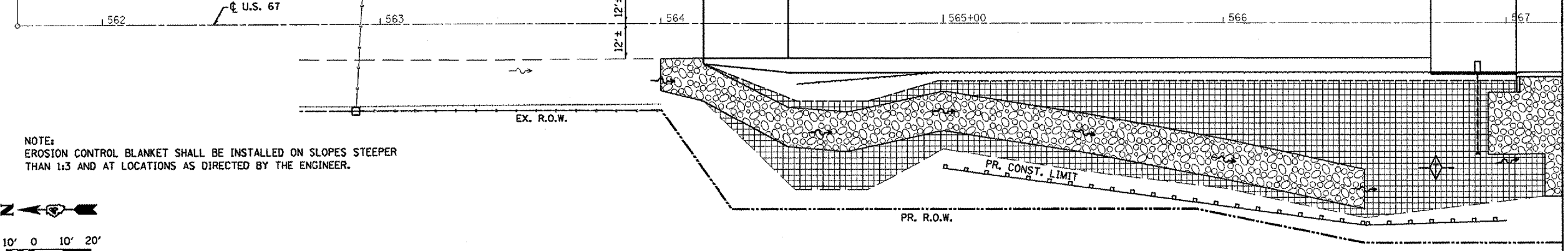
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEC 26, TWP4N, R2W, 4TH P.M.

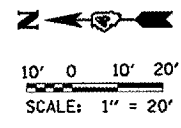
EROSION CONTROL LEGEND

- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PROP. SEEDING, CLASS 3 & MULCH METHOD 2 WITHIN CONSTRUCTION LIMITS (TYP.)
- STONE RIPRAP WITH FILTER FABRIC
- EXISTING DITCH FLOW
- PROPOSED DITCH FLOW
- PERIMETER EROSION BARRIER

POT. STA. 561+70.00



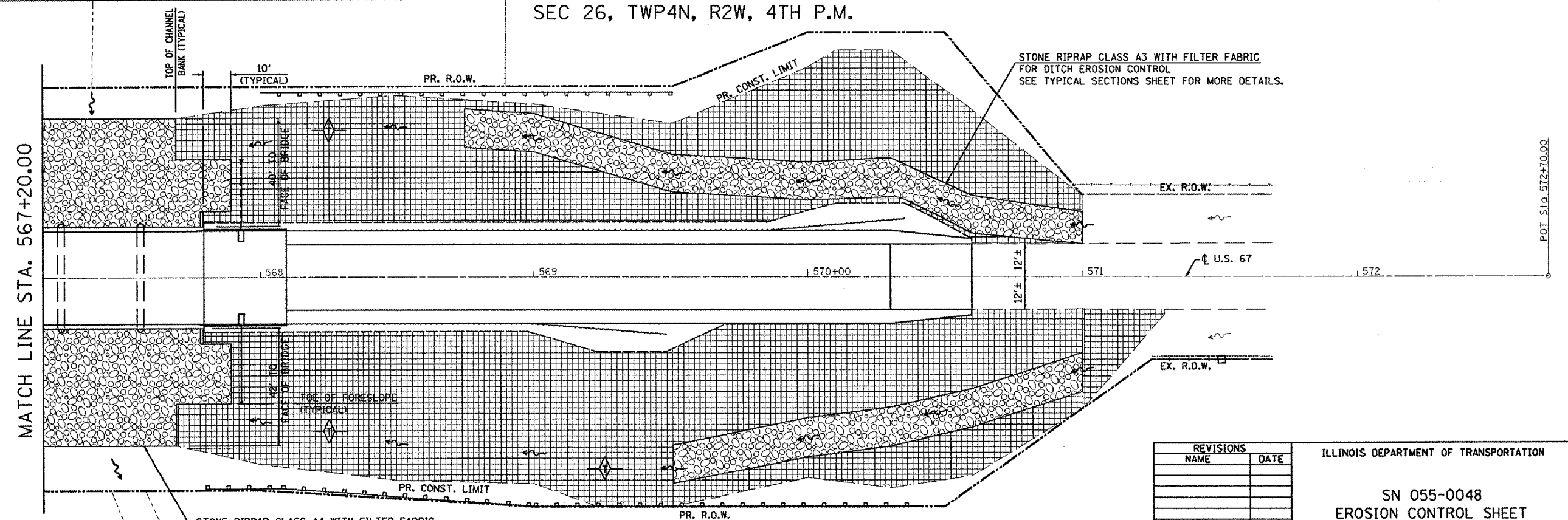
NOTE:
EROSION CONTROL BLANKET SHALL BE INSTALLED ON SLOPES STEEPER THAN 1:3 AND AT LOCATIONS AS DIRECTED BY THE ENGINEER.



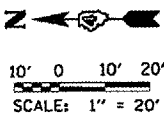
MATCH LINE STA. 567+20.00

SEC 27, TWP4N, R2W, 4TH P.M.

SEC 26, TWP4N, R2W, 4TH P.M.



MATCH LINE STA. 567+20.00



POT. STA. 572+70.00

SEC 27, TWP4N, R2W, 4TH P.M.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SN 055-0048
EROSION CONTROL SHEET

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 8/9/2006
FILE NAME = c:\arcwork\0550048\sheet27.plt
USER NAME = nash1000

Bench Mark:
A chiseled square on the Southwest wingwall of existing S.N. 055-0007. Elevation 620.90

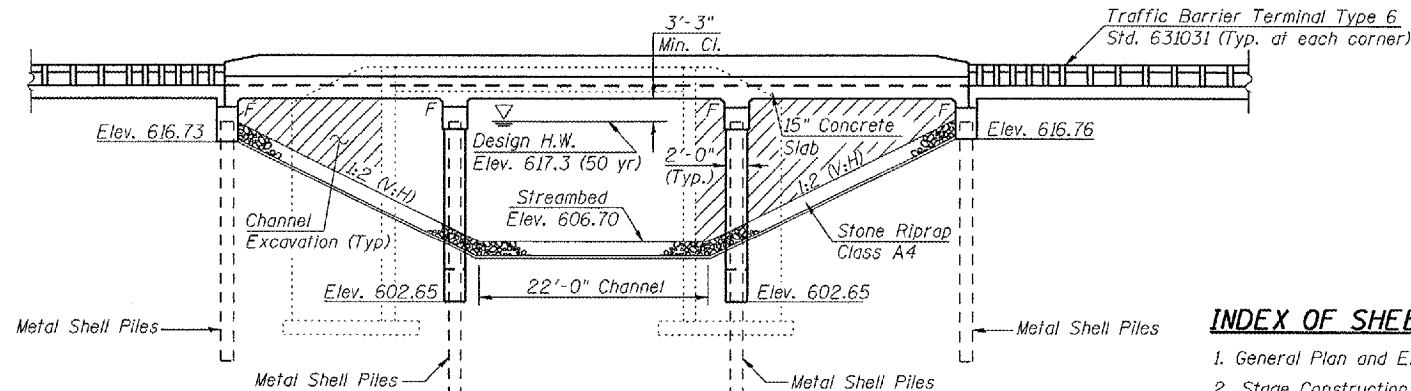
Existing Structure:
The existing Structure No. 055-0007, Constructed in 1924, is a single span reinforced concrete tee beam bridge on closed abutments with wingwalls. Back to back abutments length is 33'-0" and out to out deck width is 32'-8". The existing structure was rehabilitated in 1997, which added two longitudinal WF beams in each bay between the existing concrete tee beams. The Contractor shall remove and replace the existing structure. Staged Construction will be utilized to maintain one lane of traffic during construction. No Salvage.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 310	(41A)BR	McDonough	58	18
U.S. 67				16 SHEETS
FED. ROAD DIST. NO. 4		FED. AID PROJECT NO.		

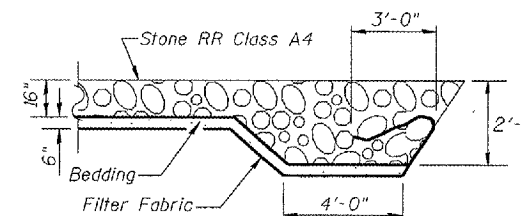
Contract #88939

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. Placement of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
4. The Contractor shall drive one Metal Shell test pile in a permanent location at each the North Abutment and at Pier 2 as directed by the Engineer before ordering the remainder of piles.
5. All construction joints shall be bonded.
6. Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I removal.
7. Bridge approach slab shall be poured after removal of concrete slab forms.



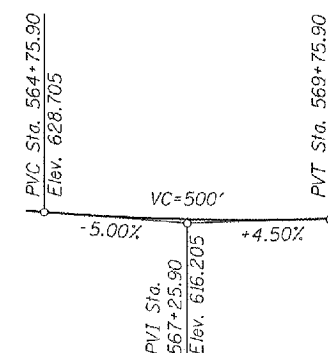
ELEVATION



SECTION A-A

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Slab Elevations
4. Superstructure
5. Superstructure Details
6. North Abutment
7. South Abutment
8. Piers
9. Temporary Concrete Barrier
10. Bar Splicer Assembly Details
11. Pile Details
- 12-16. Soil Borings



PROFILE GRADE
(US 67 Along & Roadway)

DESIGN SPECIFICATIONS

2002 AASHTO Specifications

DESIGN STRESSES

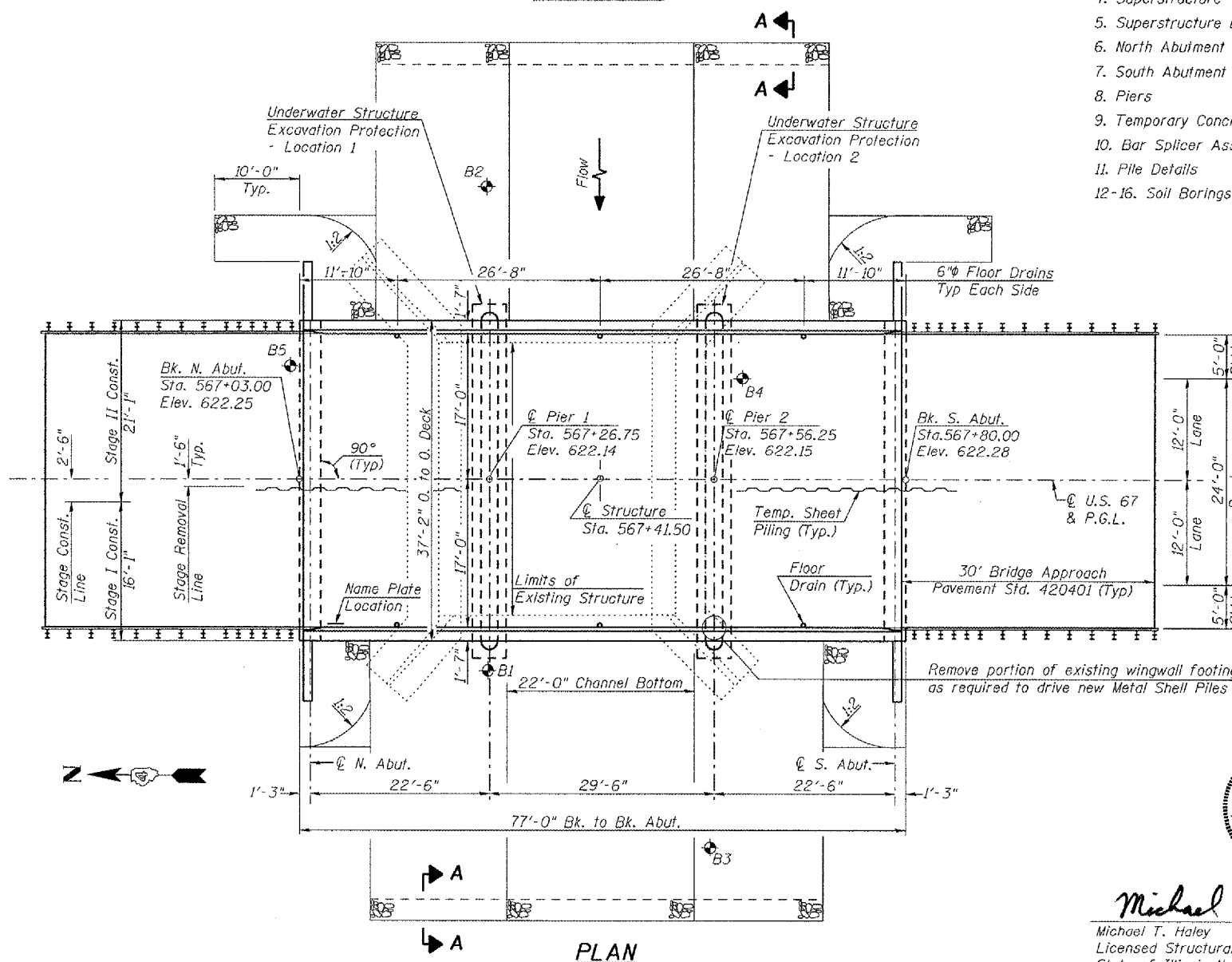
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HS20-44

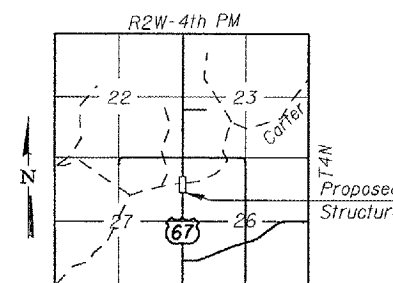
Allow 50 lb/sq. ft for future wearing surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.041g
Site Coefficient (S) = 1.5



PLAN



LOCATION SKETCH

STATION 567+41.50
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RTE. 310 SEC (41A)BR
LOADING HS20
STRUCTURE NO. 055-0048

NAME PLATE
(See Std. 515001)

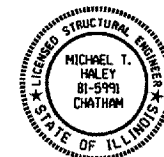
WATERWAY INFORMATION

Drainage Area = 10.0 Sq. Mi. Low Grade Elev. 621.0 At Sta. 567+41

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
-	10	1217	249	359	616.1	0.3	0.0	616.4	616.1
Design	50	1917	283	425	617.3	0.9	0.4	618.2	617.7
Base	100	2219	295	451	617.7	1.1	0.5	618.8	618.2
Max. Calc.	500	2952	303	509	618.6	1.9	0.8	620.5	619.4

APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures



Michael J. Hong 6-28-06 Date
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991

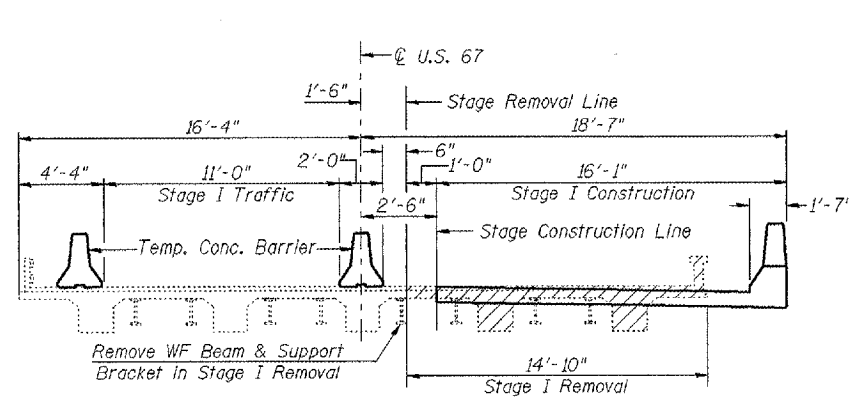
LIN ENGINEERING, LTD.
210 N. Chestnut
Chatham, Illinois 61828
Phone: 618-465-4465
Fax: 618-465-4736
Designed By: DLS
Checked By: MTH
Drawn By: ADP
Date: 02/06
File: 0550048.DGN

REVISIONS	
NAME	DATE

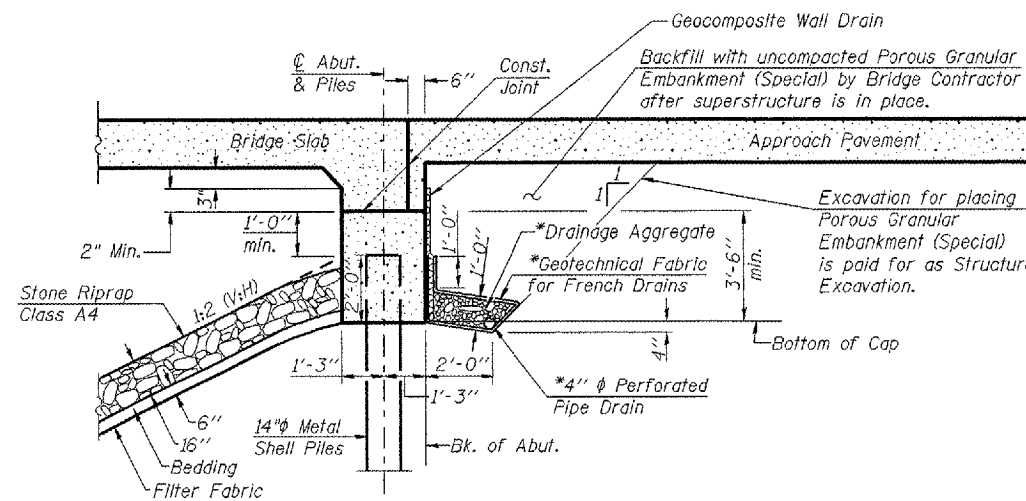
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		124	124
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Temporary Sheet Piling	Sq. Ft.		1334	1334
Porous Granular Embankment (Special)	Cu. Yd.		45	45
Pipe Underdrains for Structures 4"	Foot		97	97
Geocomposite Wall Drain	Sq. Yd.		31	31
Concrete Structures	Cu. Yd.		103.9	103.9
Concrete Superstructure	Cu. Yd.	156.2		156.2
Bridge Deck Grooving	Sq. Yd.	270		270
Reinforcement Bars, Epoxy Coated	Pound	26,310	10,730	37,040
Bar Splicers	Each	118	78	196
Protective Coat	Sq. Yd.	351	3	354
Floor Drains	Each	6		6
Furnishing Metal Pile Shells 14"	Foot		1821	1821
Driving and Filling Shells	Foot		1821	1821
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Stone Riprap Class A4	Sq. Yd.		1015	1015
Filter Fabric	Sq. Yd.		1015	1015
Permanent Survey Marker T1	Each		1	1



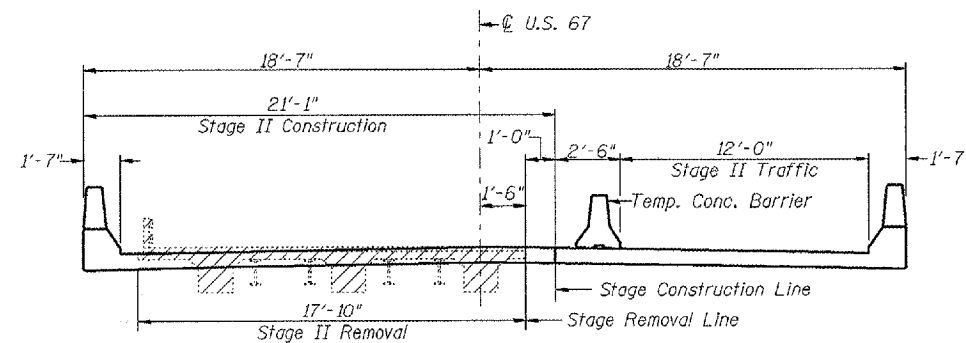
STAGE I REMOVAL & CONSTRUCTION
(Looking South)



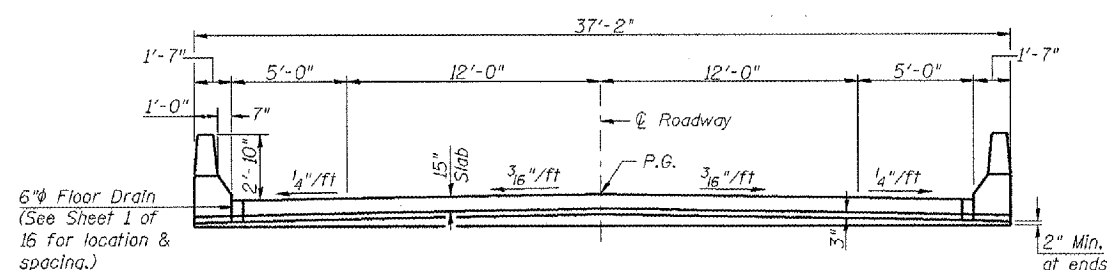
SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

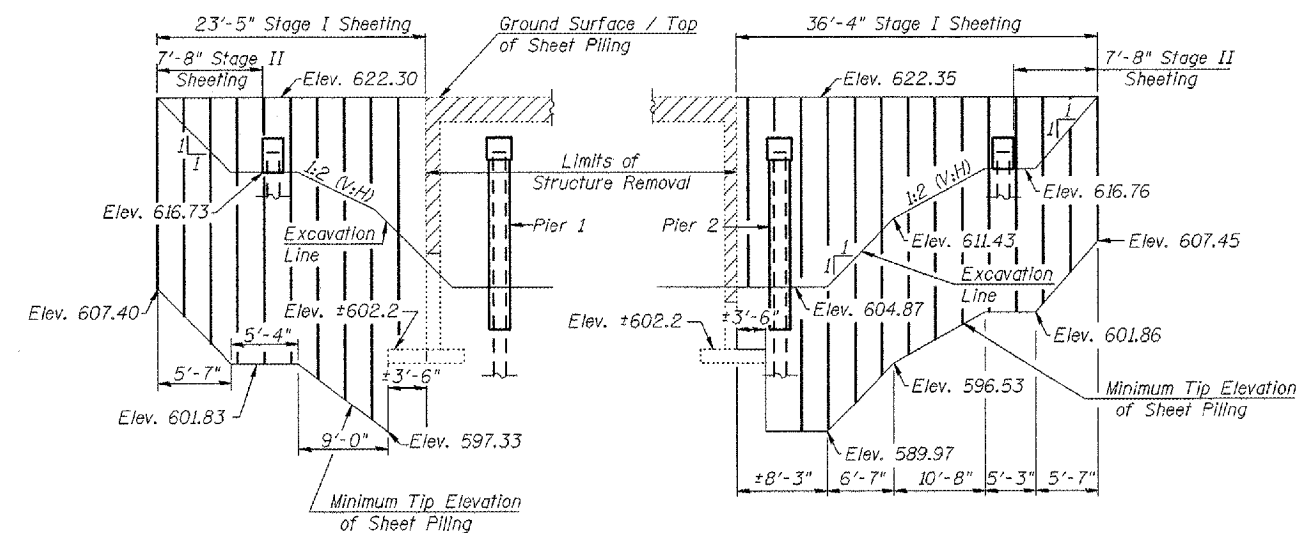
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



STAGE II REMOVAL & CONSTRUCTION
(Looking South)



PROPOSED CROSS SECTION



NORTH ABUTMENT

SOUTH ABUTMENT

TEMPORARY SHEET PILING

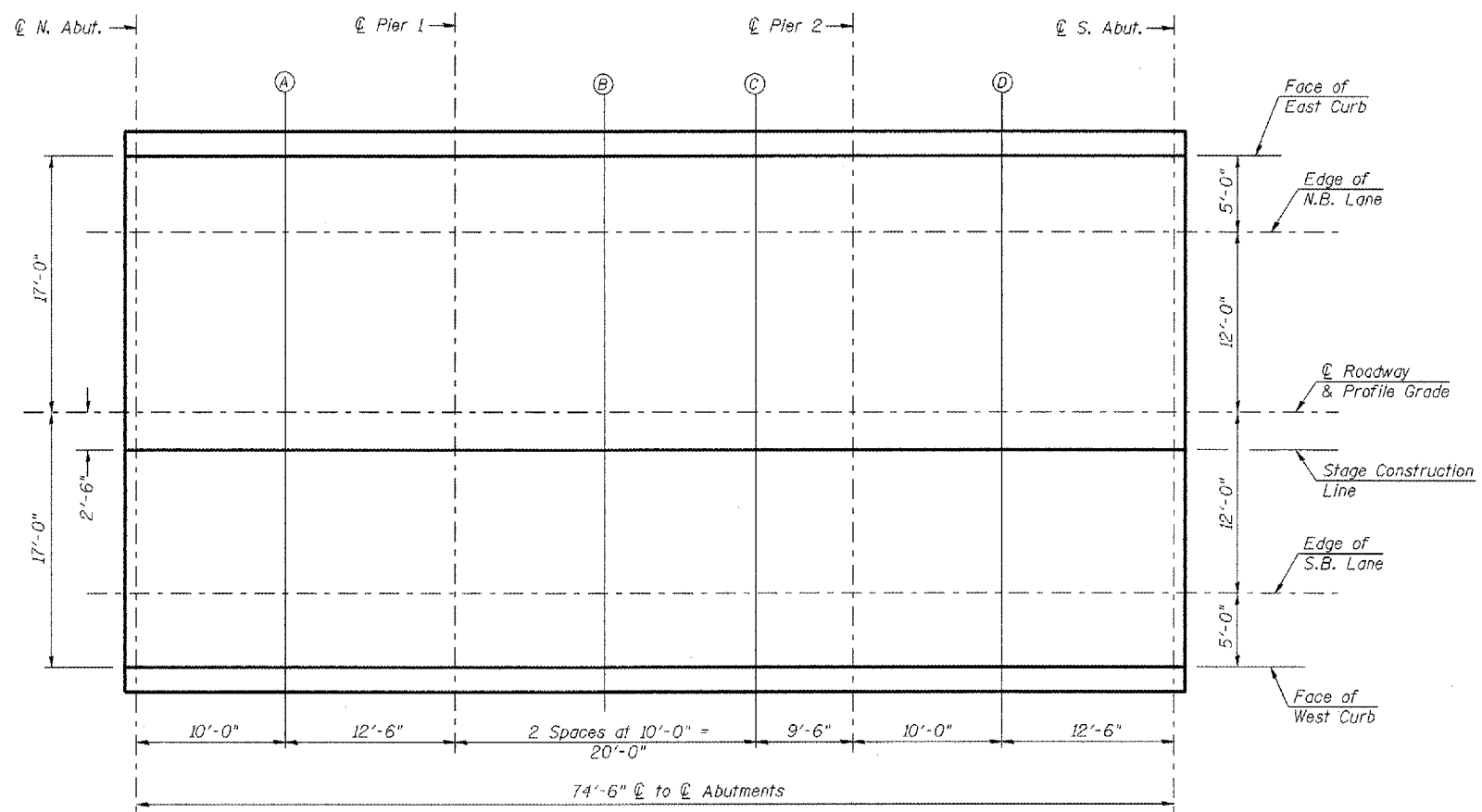
If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer. Minimum Section modulus of temporary sheet piling shall be 49 in³/ft. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

LIN ENGINEERING, LTD.

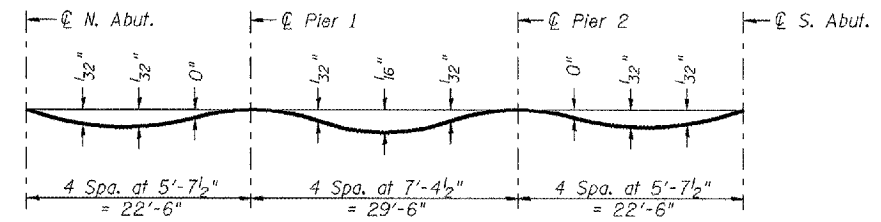
201 W. Cass Street
Chatham, Illinois 62633
301-481-465
Fax: 301-481-4136
Designed By: DLS
Checked By: MTH
Drawn By: ADB
Date: 01/06
File: 0280148.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

EDGE OF S.B. LANE

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	12.00	622.05	622.05
A	567+14.25	12.00	622.00	622.00
℄ Pier 1	567+26.75	12.00	621.95	621.95
B	567+36.75	12.00	621.94	621.94
C	567+46.75	12.00	621.94	621.94
℄ Pier 2	567+56.25	12.00	621.96	621.96
D	567+66.25	12.00	622.01	622.01
℄ S. Abut.	567+78.75	12.00	622.09	622.09

FACE OF EAST CURB

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	-17.00	621.95	621.95
A	567+14.25	-17.00	621.90	621.90
℄ Pier 1	567+26.75	-17.00	621.85	621.85
B	567+36.75	-17.00	621.84	621.84
C	567+46.75	-17.00	621.84	621.84
℄ Pier 2	567+56.25	-17.00	621.86	621.86
D	567+66.25	-17.00	621.91	621.91
℄ S. Abut.	567+78.75	-17.00	621.99	621.99

P.G. & ℄ ROADWAY

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	0.00	622.24	622.24
A	567+14.25	0.00	622.19	622.19
℄ Pier 1	567+26.75	0.00	622.14	622.14
B	567+36.75	0.00	622.13	622.13
C	567+46.75	0.00	622.13	622.13
℄ Pier 2	567+56.25	0.00	622.15	622.15
D	567+66.25	0.00	622.20	622.20
℄ S. Abut.	567+78.75	0.00	622.28	622.28

FACE OF WEST CURB

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	17.00	621.95	621.95
A	567+14.25	17.00	621.90	621.90
℄ Pier 1	567+26.75	17.00	621.85	621.85
B	567+36.75	17.00	621.84	621.84
C	567+46.75	17.00	621.84	621.84
℄ Pier 2	567+56.25	17.00	621.86	621.86
D	567+66.25	17.00	621.91	621.91
℄ S. Abut.	567+78.75	17.00	621.99	621.99

EDGE OF N.B. LANE

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	-12.00	622.05	622.05
A	567+14.25	-12.00	622.00	622.00
℄ Pier 1	567+26.75	-12.00	621.95	621.95
B	567+36.75	-12.00	621.94	621.94
C	567+46.75	-12.00	621.94	621.94
℄ Pier 2	567+56.25	-12.00	621.96	621.96
D	567+66.25	-12.00	622.01	622.01
℄ S. Abut.	567+78.75	-12.00	622.09	622.09

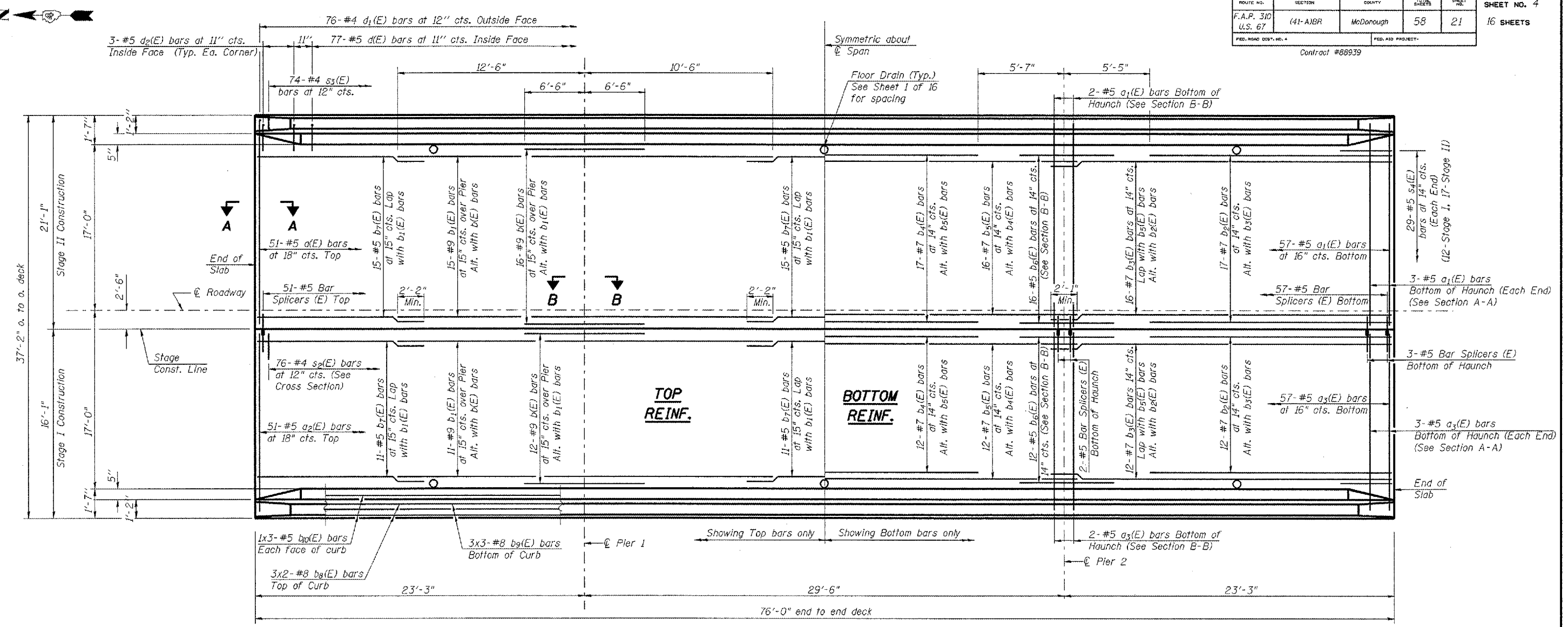
STAGE CONSTRUCTION LINE

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ N. Abut.	567+04.25	2.50	622.20	622.20
A	567+14.25	2.50	622.15	622.15
℄ Pier 1	567+26.75	2.50	622.10	622.10
B	567+36.75	2.50	622.09	622.09
C	567+46.75	2.50	622.09	622.09
℄ Pier 2	567+56.25	2.50	622.11	622.11
D	567+66.25	2.50	622.16	622.16
℄ S. Abut.	567+78.75	2.50	622.24	622.24

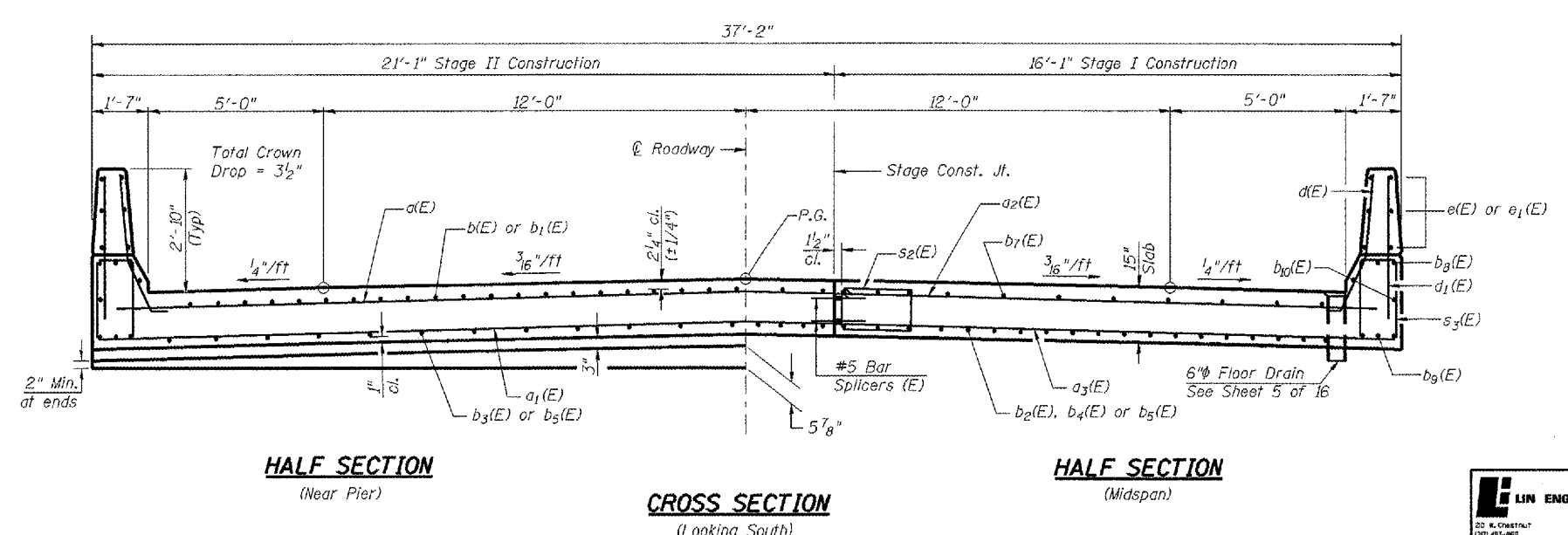
LIN ENGINEERING LTD.
300 W. Chestnut
Chattanooga, Illinois 62429
1271 483-468 FAX 1271 483-4705
Designed By: DLS Checked By: MTH Drawn By: AOB
Date: 01/06 File: 0550048.dwg

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SLAB ELEVATIONS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048



PLAN



HALF SECTION
(Near Pier)

CROSS SECTION
(Looking South)

HALF SECTION
(Midspan)

MIN. BAR LAP
(unless otherwise shown)
#5 Bars = 1'-8"
#8 Bars = 3'-5"

Notes: See Sheet 5 of 16 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 5 of 16 for parapet reinforcement.
See Sheet 5 of 16 for Sections A-A and B-B.

LIN ENGINEERING, LTD.
20 S. CHESTNUT
CHICAGO, ILL. 60604
TEL: 461-4600 FAX: 461-4700
Designed By: DLS Checked By: MTH Drawn By: ADB
Date: 02/06 File: 0550048.DWG

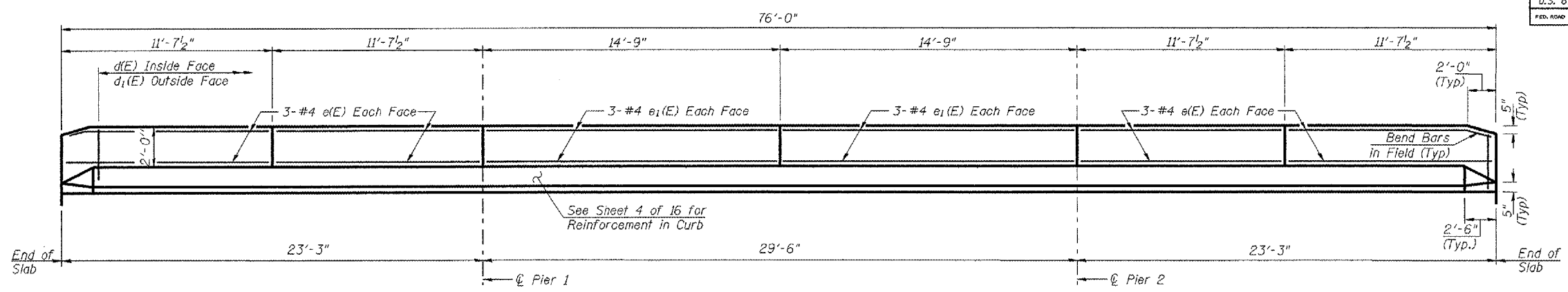
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

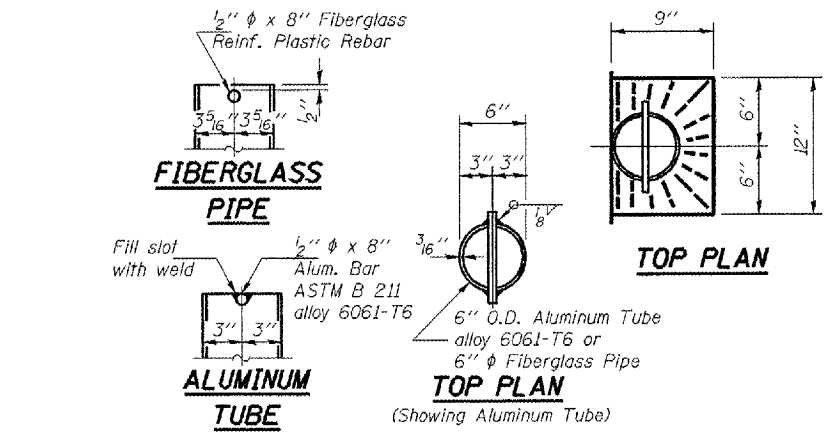
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 310 U.S. 67	(41-A)BR	McDonough	58	22
FED. ROAD DIST. NO. 4			FED. AID PROJECT	

SHEET NO. 5
16 SHEETS

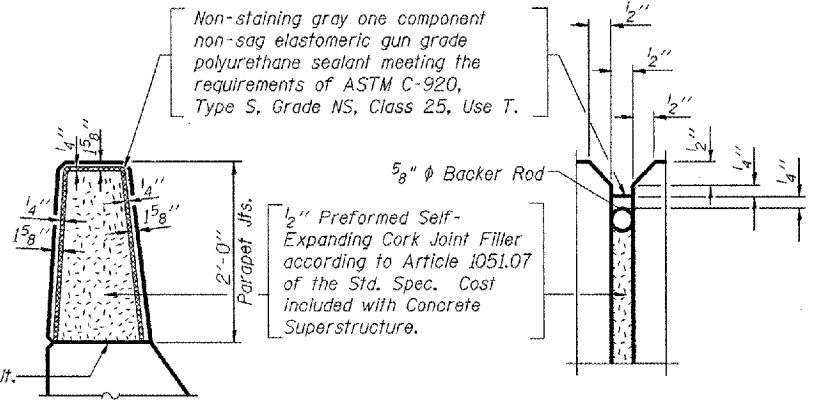
Contract #88939



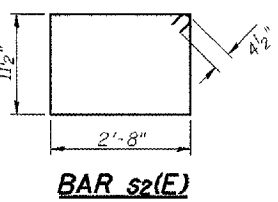
INSIDE ELEVATION OF PARAPET
(East Parapet Shown)



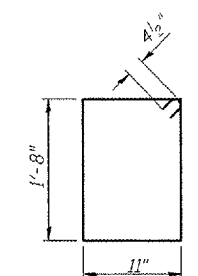
Notes:
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.



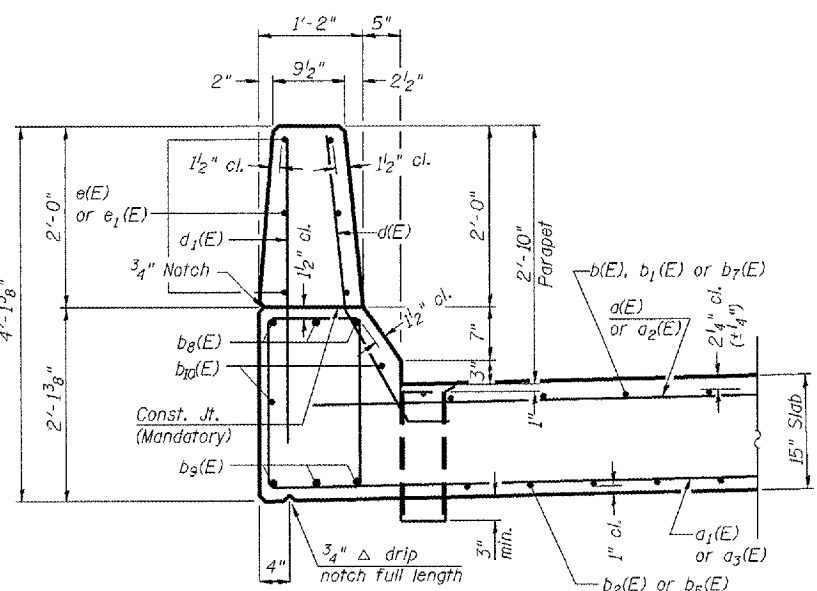
PARAPET JOINT DETAILS



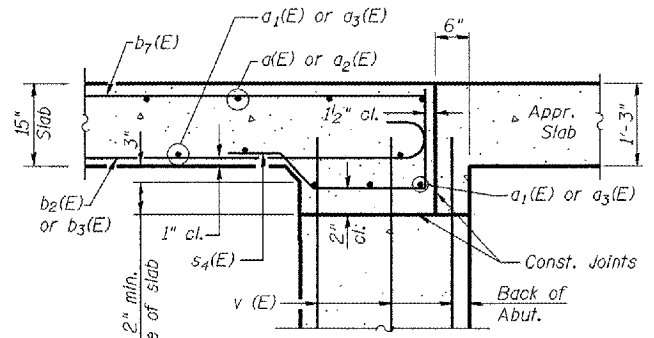
BAR s2(E)



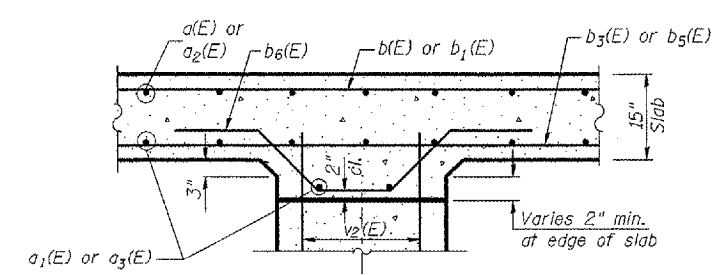
BAR s3(E)



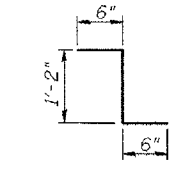
SECTION THRU PARAPET



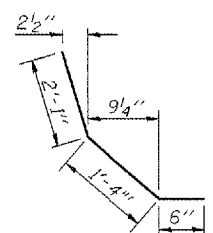
SECTION A-A



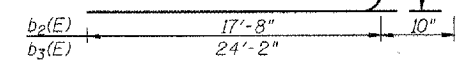
SECTION B-B



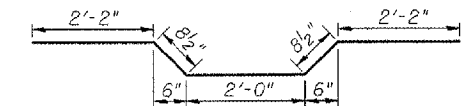
BAR d2(E)



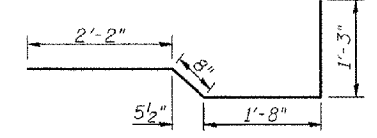
BAR d(E)



BAR b2(E) & b3(E)



BAR b6(E)



BAR s1(E)

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

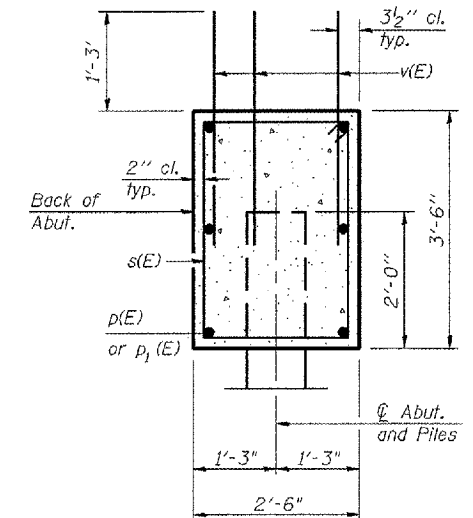
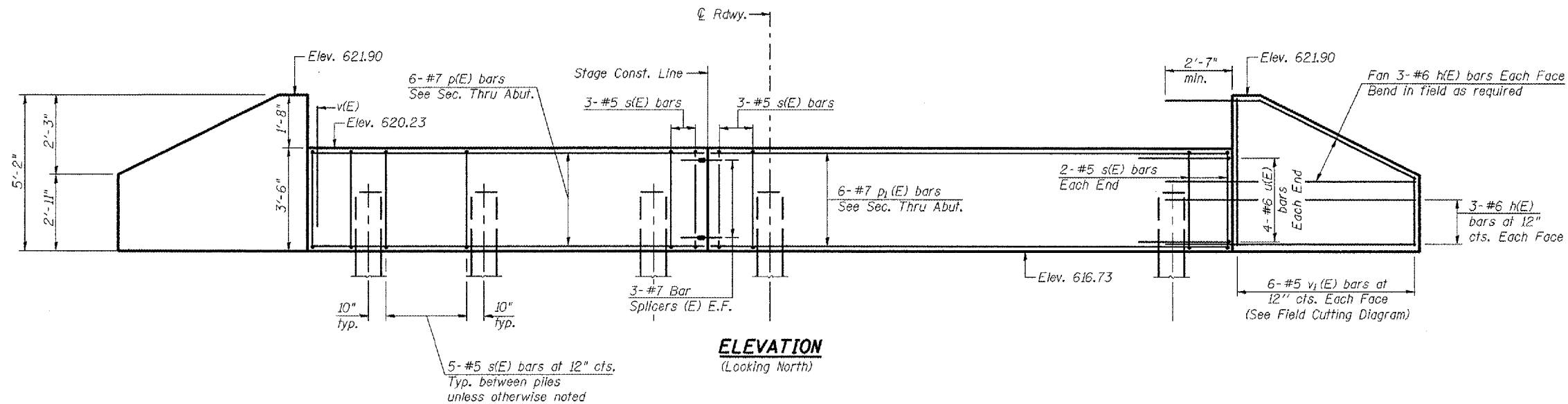
REVISIONS	NAME	DATE

LIJ ENGINEERING, LTD.
300 N. Chestnut
Chatham, Illinois 62829
Tel: 618-482-8688 Fax: 618-482-8106
Designed By: DLS Checked By: WJH Drawn By: ADB
Date: 01/96 File: 0550048.dwg

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 310 U.S. 67	(41A)BR	McDonough	58	23
FED. ROAD DIST. NO. 4		FED. AID PROJECT		

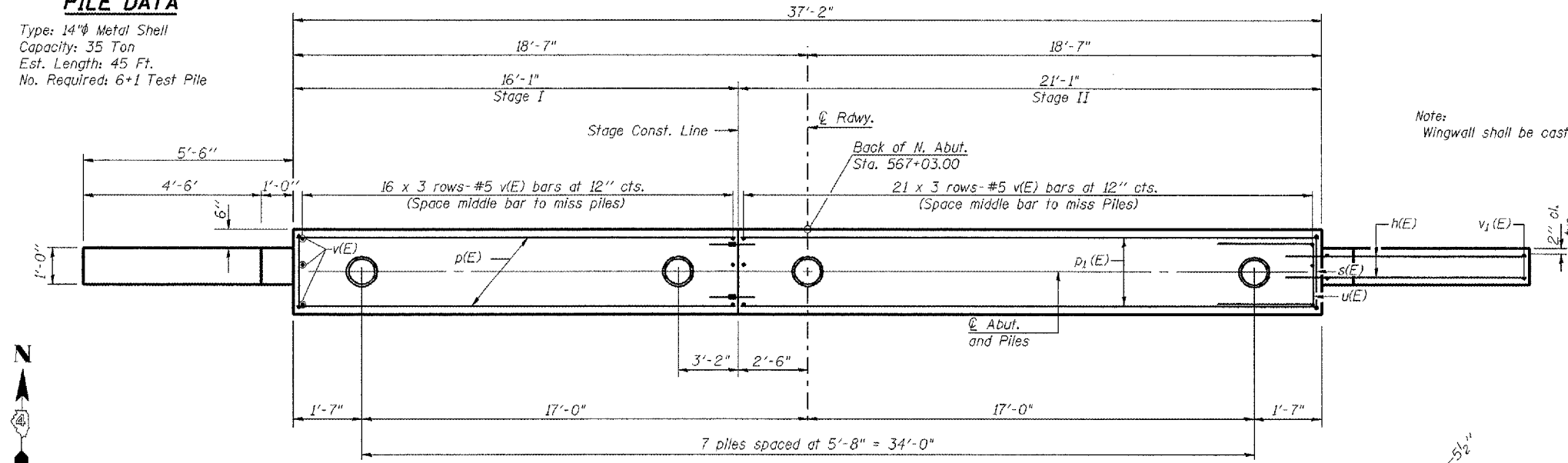
SHEET NO. 6
16 SHEETS

Contract #88939



SEC. THRU ABUT.

PILE DATA
Type: 14" Metal Shell
Capacity: 35 Ton
Est. Length: 45 Ft.
No. Required: 6+1 Test Pile



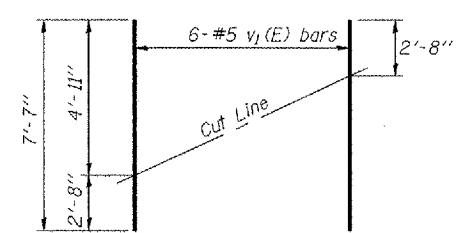
PLAN

Note:
Wingwall shall be cast monolithically with cap

BILL OF MATERIAL

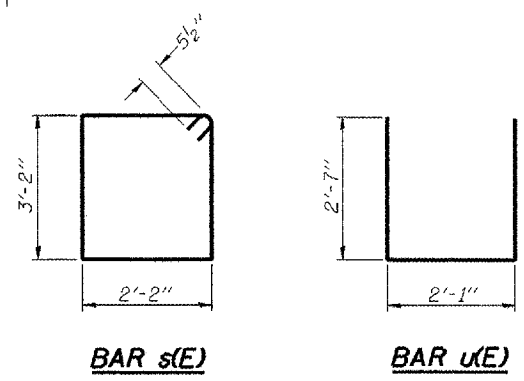
Bar	No.	Size	Length	Shape
h(E)	24	#6	8'-6"	—
p(E)	6	#7	15'-10"	—
p1(E)	6	#7	20'-10"	—
s(E)	35	#5	11'-7"	□
u(E)	8	#6	7'-3"	—
v(E)	111	#5	3'-5"	—
v1(E)	12	#5	7'-7"	—
Concrete Structures		Cu. Yd.	13.1	
Reinforcement Bars, Epoxy Coated		Pound	1760	
Structure Excavation		Cu. Yd.	27.0	
Furnishing Metal Pile Shells 14"		Foot	270	
Driving and Filling Shells		Foot	270	
Test Pile Metal Shells		Each	1	

Reinforcement bars designated (E) shall be epoxy coated.
For details of Bar Splicers, see sheet 10 of 16.



FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)

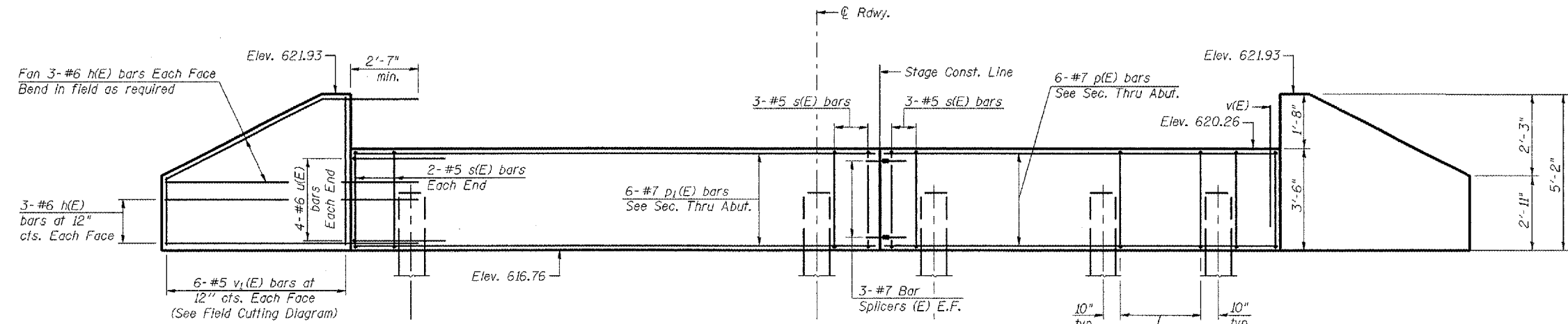
BAR u(E)

REVISIONS	
NAME	DATE

LIN ENGINEERING, LTD.
300 W. CHASTAIN
CHATTANOOGA, TENN. 37403
DESIGNED BY: DLS CHECKED BY: MTH DRAWN BY: ADB
DATE: 01/06 FILE: 0550048.DWG

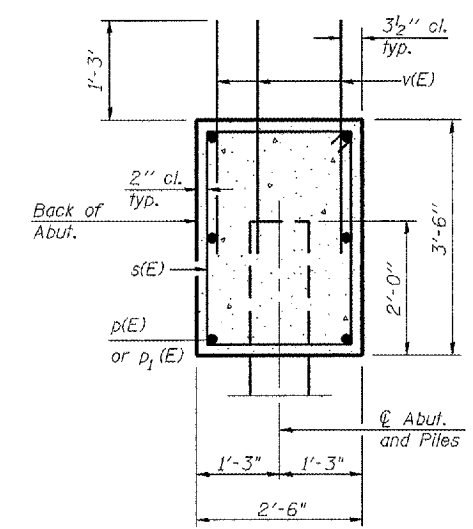
ILLINOIS DEPARTMENT OF TRANSPORTATION
NORTH ABUTMENT
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

Contract #88939



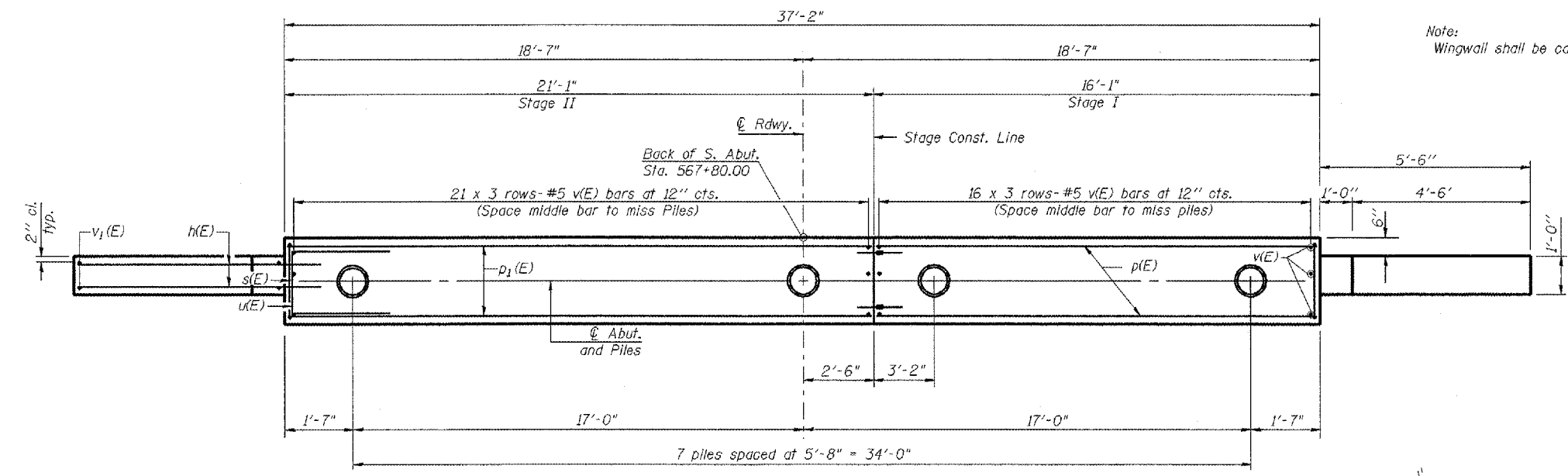
ELEVATION
(Looking South)

5-#5 s(E) bars at 12" cts.
Typ. between piles
unless otherwise noted



SEC. THRU ABUT.

Note:
Wingwall shall be cast monolithically with cap



PLAN



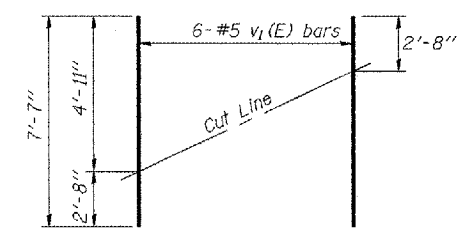
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#6	8'-6"	—
p(E)	6	#7	15'-10"	—
p1(E)	6	#7	20'-10"	—
s(E)	35	#5	11'-7"	□
u(E)	8	#6	7'-3"	—
v(E)	111	#5	3'-5"	—
v1(E)	12	#5	7'-7"	—
Concrete Structures		Cu. Yd.	13.1	
Reinforcement Bars, Epoxy Coated		Pound	1760	
Structure Excavation		Cu. Yd.	27.1	
Furnishing Metal Pile Shells 14"		Foot	315	
Driving and Filling Shells		Foot	315	

Reinforcement bars designated (E) shall be epoxy coated.
For details of Bar Splicers, see sheet 10 of 16.

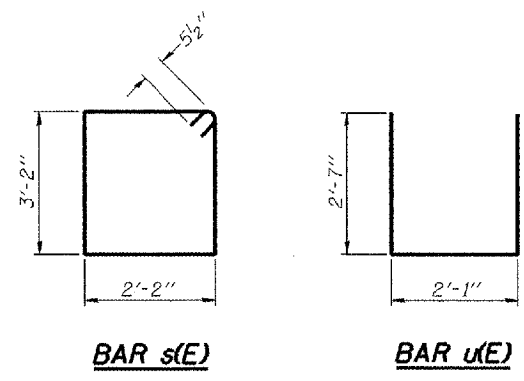
PILE DATA

Type: 14" Metal Shell
Capacity: 35 Ton
Est. Length: 45 Ft.
No. Required: 7



FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.



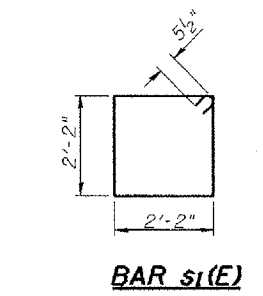
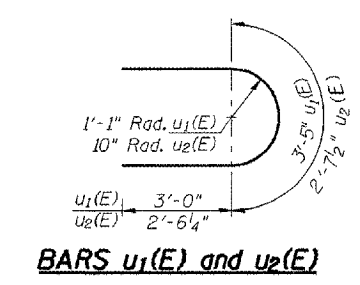
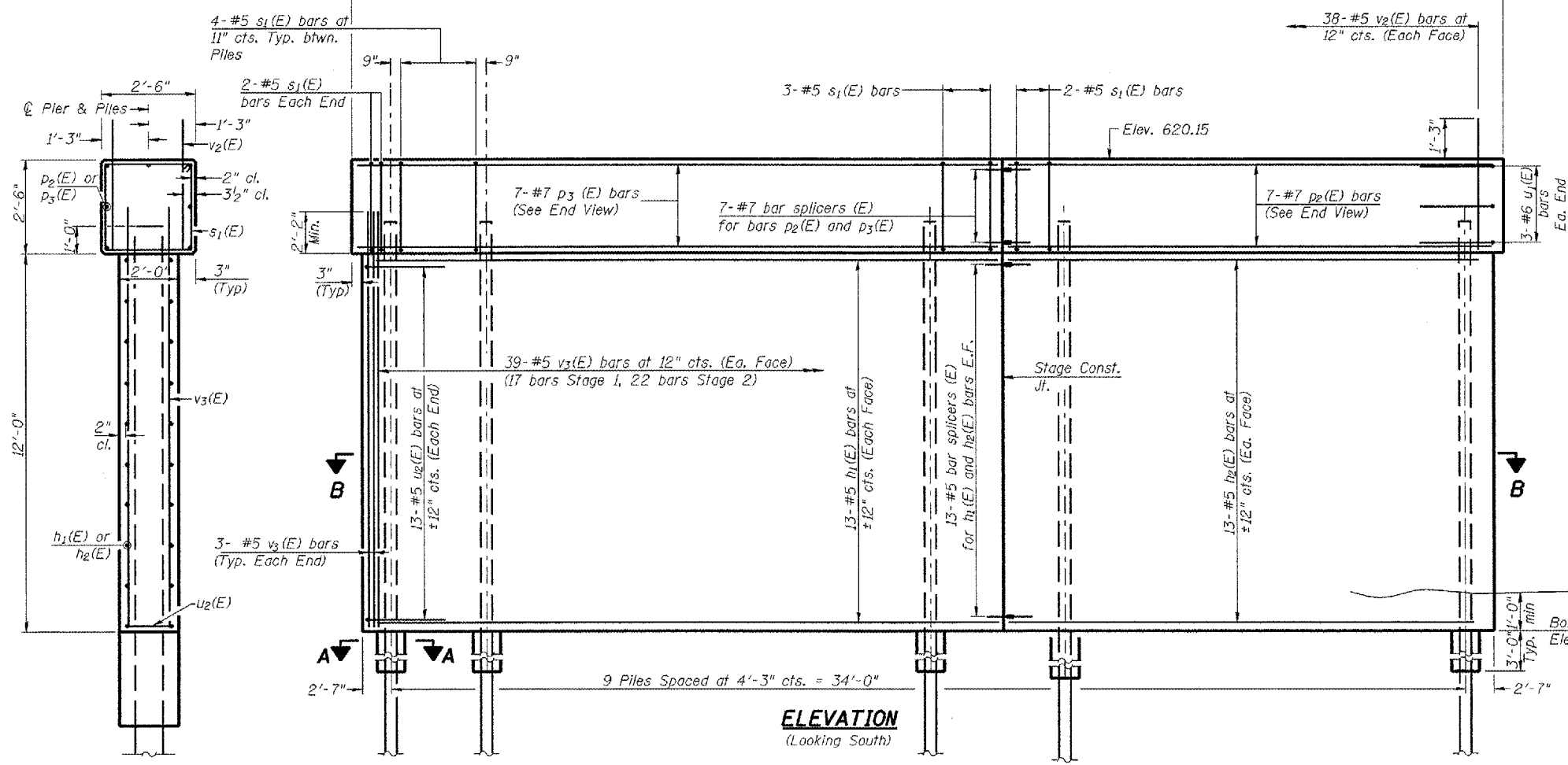
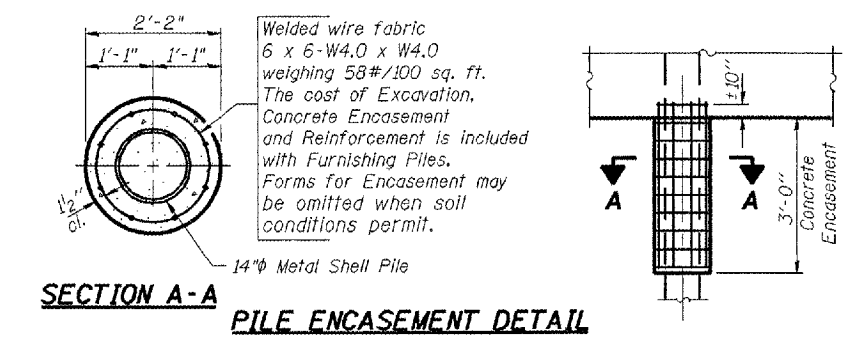
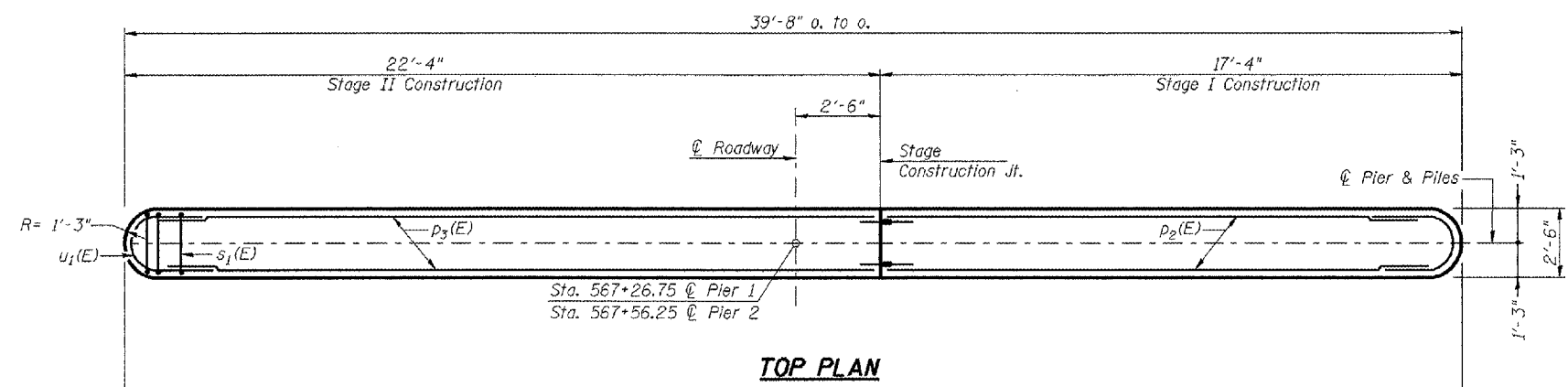
BAR s(E)

BAR u(E)

LIJ ENGINEERING, LTD.
200 W. Chestnut
Chicago, Illinois 60609
Tel: (312) 463-4668
Fax: (312) 463-4700
Designed By: DLS
Checked By: JTH
Date: 01/06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH ABUTMENT
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

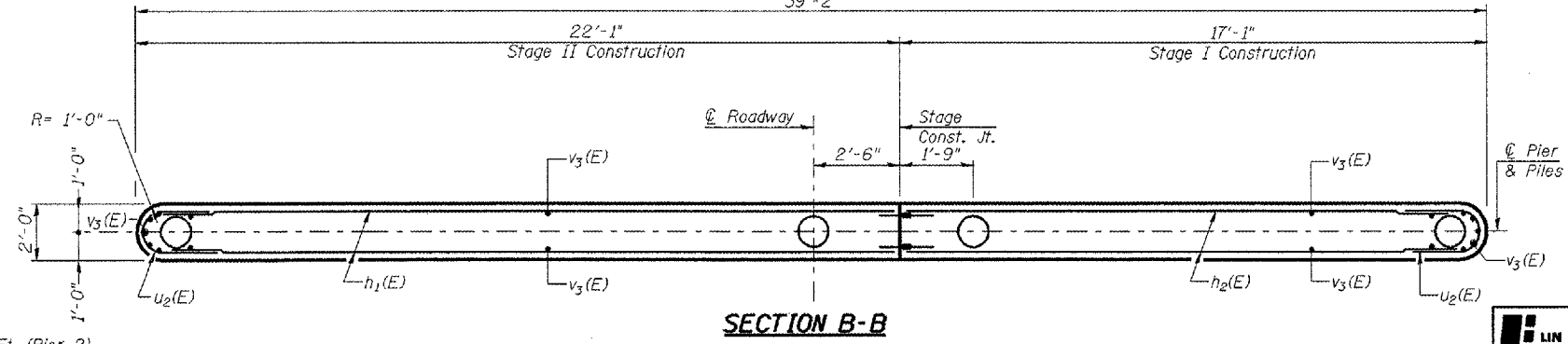


BILL OF MATERIAL
(Two Piers)

Bar No.	Size	Length	Shape
h ₁ (E)	#5	21'-0"	—
h ₂ (E)	#5	16'-0"	—
p ₂ (E)	#7	16'-0"	—
p ₃ (E)	#7	21'-0"	—
s ₁ (E)	#5	9'-7"	□
u ₁ (E)	#6	9'-5"	U
u ₂ (E)	#5	7'-8"	U
v ₂ (E)	#5	3'-5"	—
v ₃ (E)	#5	14'-0"	—
Concrete Structures	Cu. Yd.	77.7	
Reinforcement Bars, Epoxy Coated	Pound	7210	
Structure Excavation	Cu. Yd.	69.9	
Furnishing Metal Pile Shells 14"	Foot	1236	
Driving and Filling Shells	Foot	1236	
Test Pile Metal Shells	Each	1	
Underwater Structure Excavation Protection Location 1	Each	1	
Underwater Structure Excavation Protection Location 2	Each	1	

Reinforcement bars designated (E) shall be epoxy coated.

END VIEW



PILE DATA

Type: 14" Metal Shell
Capacity: 50 Ton
Est. Length: 68 Ft. (Pier 1), 78 Ft. (Pier 2)
No. Req'd: 9 (Pier 1), 8+1 Test Pile (Pier 2)

LIN ENGINEERING, LTD.
20 N. Chestnut
Channahon, Illinois 61515
TEL: 815-463-1066 FAX: 815-463-4706
Designed By: DLS Checked By: MTH Drawn By: ADG
Dated: 01/08 File: 0550048.dwg

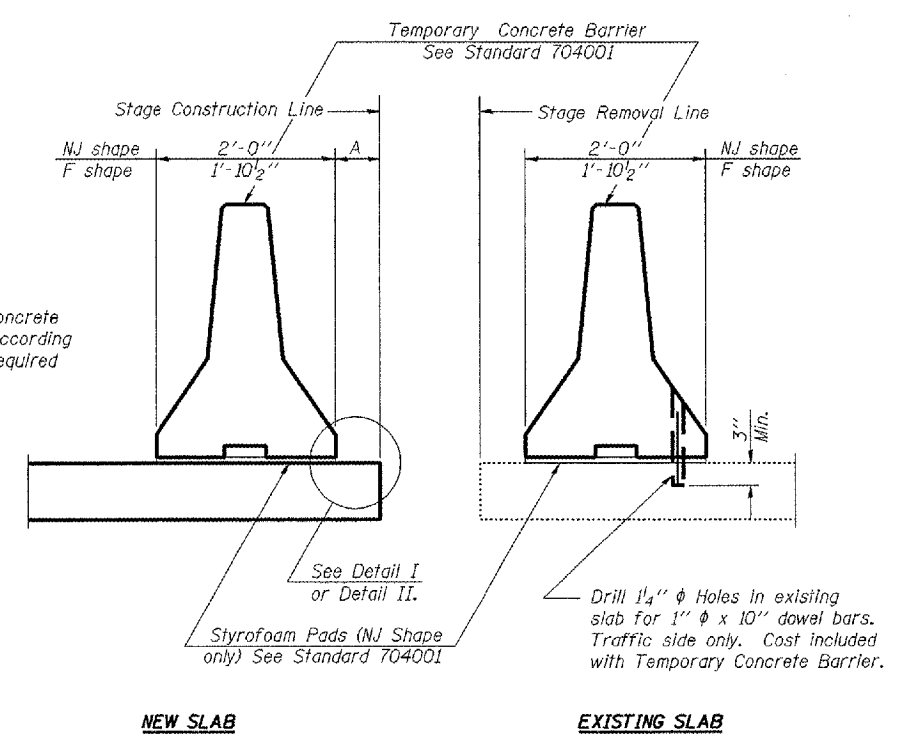
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIERS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

ROUTE NO.	SECTION	OWNER	TOTAL SHEETS	SHEET NO.
F.A.P. 310 U.S. 67	(41A)BR	McDonough	58	26
FED. ROAD DIST. NO. 4		FED. AID PROJECT		

SHEET NO. 9
16 SHEETS

Contract #88939

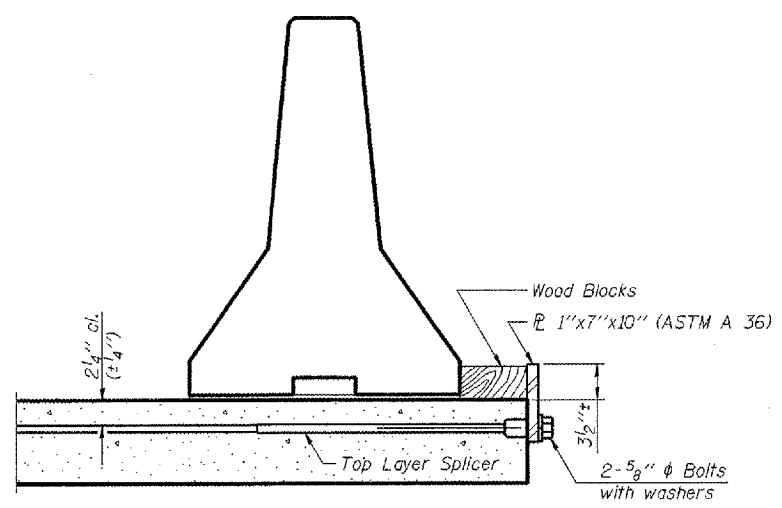


When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

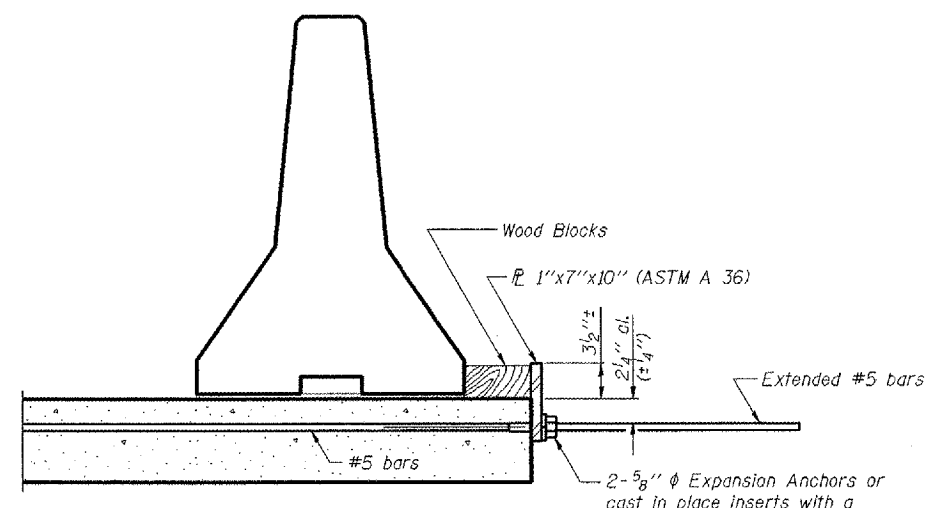
- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel P₂ to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel P₂ to the concrete slab with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.

SECTIONS THRU SLAB



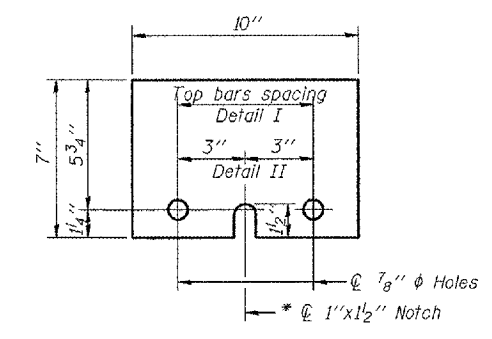
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



1"x7"x10"

* Required only with Detail II

LIN ENGINEERING, LTD.
200 W. Chestnut
Guthrie, Illinois 62929
Phone: 618-443-9688 Fax: 618-283-4106
Designed by: DLS Checked by: MTH Drawn by: ACD
Date: 01/05 File: 0800042.DWG

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 310 U.S. 67	(41A)BR	McDonough	58	27
FED. ROAD DIST. NO. 4			FED. AID PROJECT	

SHEET NO. 10
16 SHEETS

Contract #88939

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_f$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s,allow} \times A_f$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_f = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

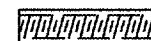
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

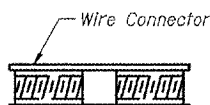
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



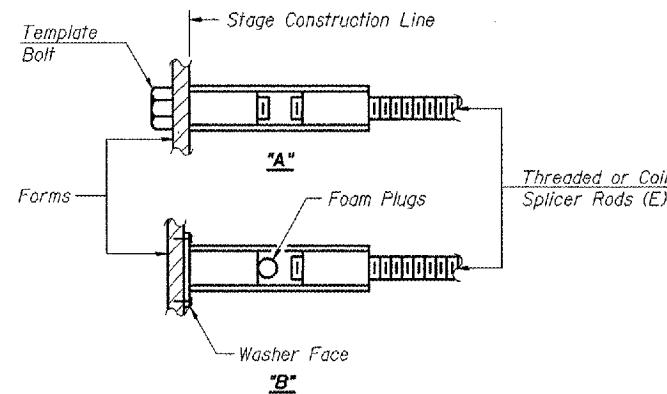
**** ONE PIECE**



WELDED SECTIONS

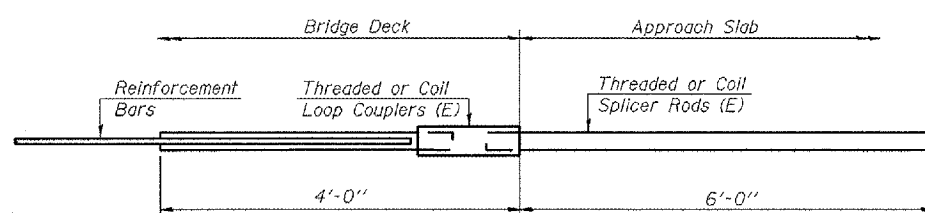
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



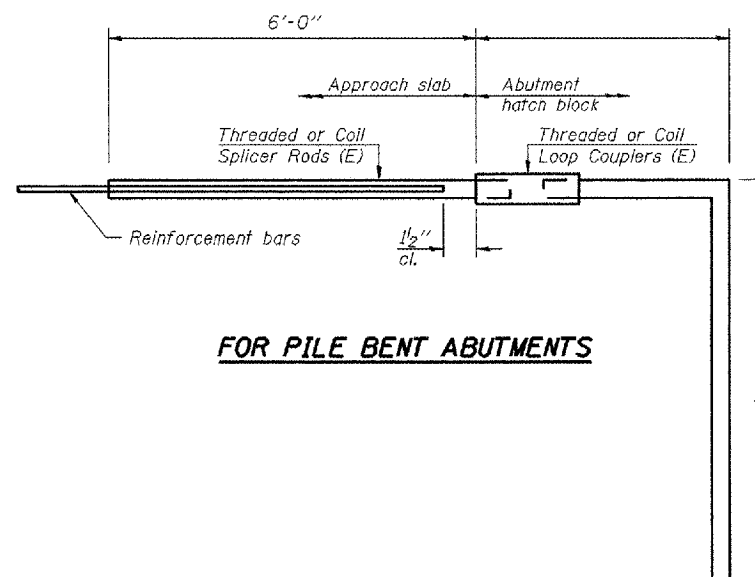
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



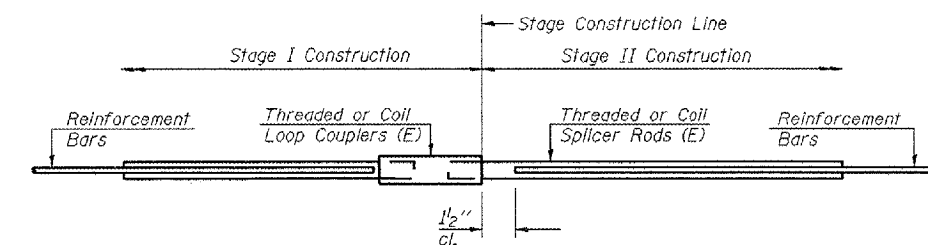
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	118	Slab
#7	12	Abutments
#5	52	Piers
#7	14	Piers

ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

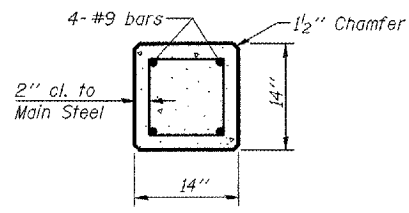
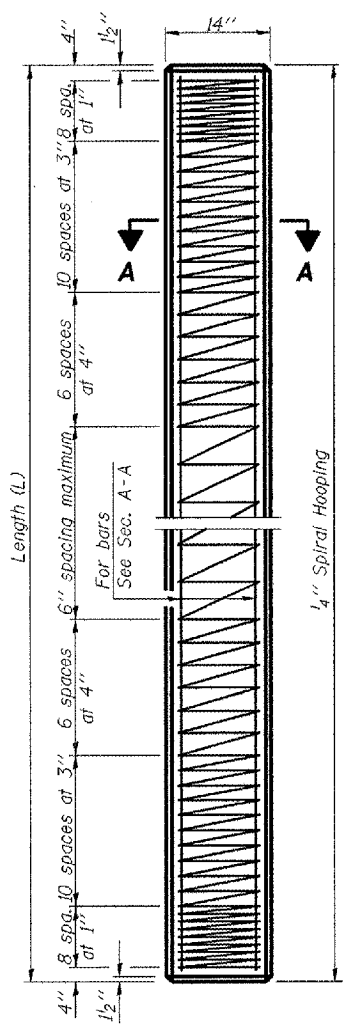
LIN ENGINEERING, LTD.
310 N. CHERRY ST. CHATTANOGA, TN 37403
DESIGNED BY: DLS CHECKED BY: MTH DRAWN BY: ADP
DATE: 01/06 FILE: 055048.DWG

REVISIONS	
NAME	DATE

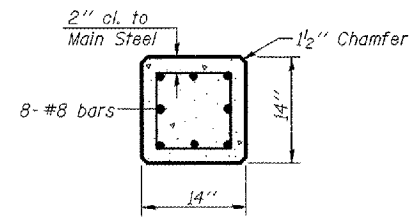
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 310 U.S. 67	(41-A)BR	McDonough	58	28
FED. ROAD DIST. NO. 4		FED. ROAD PROJECT		

SHEET NO. 11
16 SHEETS

Contract #88939



**SECTION A-A
FOR PILES UNDER
45' LONG**

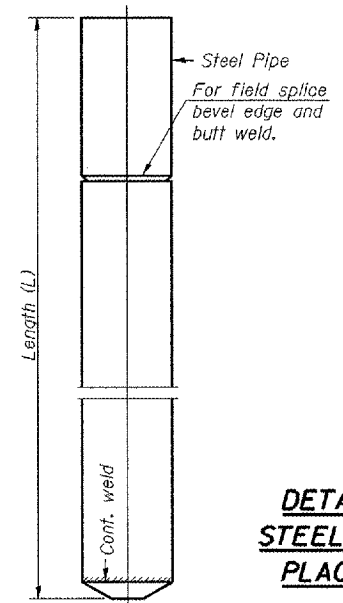


**SECTION A-A
FOR PILES 45'
OR MORE**

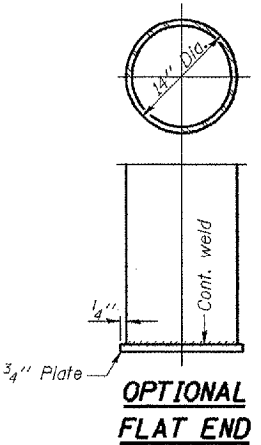
Handling: For Pile lengths up to 45' use two slings placed at a distance of 0.21L from each end. For Piles longer than 45', use three slings placed at a distance of 0.12L from each end and at mid point of pile.

**DETAIL OF PRECAST
CONCRETE PILES**

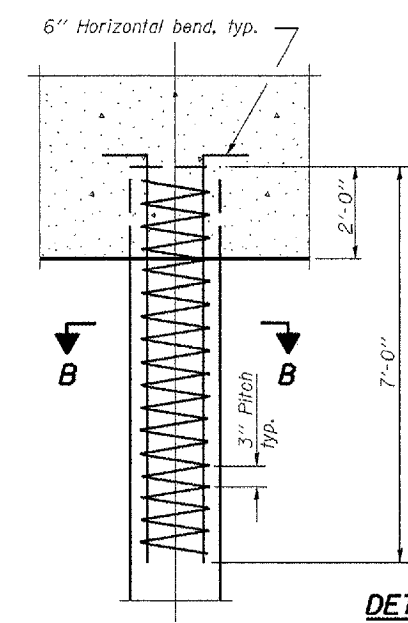
Notes:
Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.250 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications.



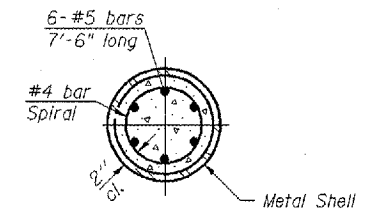
**DETAIL OF CYLINDRICAL
STEEL SHELL FOR CAST IN
PLACE CONCRETE PILES**



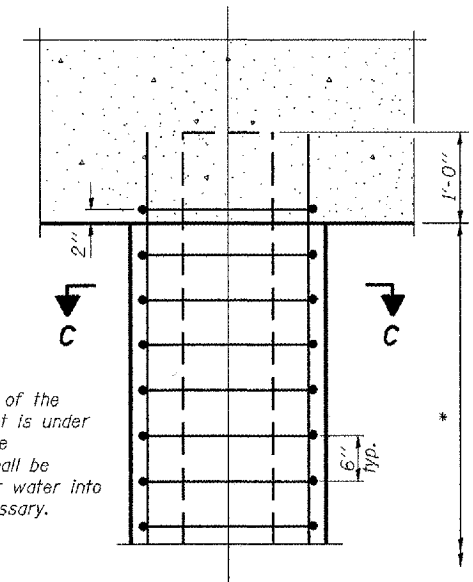
**OPTIONAL
FLAT END**



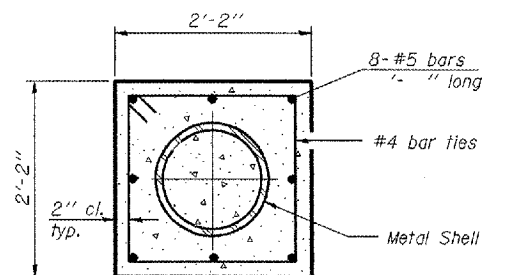
**DETAIL OF REINFORCEMENT FOR
METAL SHELLS AT ABUTMENTS**



SECTION B-B



**DETAIL OF PROTECTION
FOR METAL SHELLS AT PIERS**



SECTION C-C

The cost of Reinforcement, concrete, and excavation for forms is included with Concrete Encasement.

* If a portion of the pile encasement is under water, Concrete Encasement shall be tremied under water into forms as necessary.

LIN ENGINEERING, LTD.
50 N. Chestnut
Chaffron, Illinois 60429
TEL: 483-4668 FAX: 483-4706
Checked By: JTF Date: 05/06
Drawn By: AGD File: 0580248.DWG

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PILE DETAILS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 1 of 3
Date 2/7/06

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Over Carter Creek LOGGED BY J. Roberts
SECTION (41-A) BR LOCATION SEC. TWP. 4N. RING. 2W. 4th PM
COUNTY McDonough DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	SOIL	UCS Failure Mode	DEPTH (ft)	SOIL	UCS Failure Mode
Existing 055-0007 Prop. 567+37.85	5 (NE ABUT)						
Groundwater Elev.: 603.2 ft							
First Encounter Upon Completion Not Taken							
After 24 Hrs. 607.4 ft							
Ground Surface Elev. 620.67 ft							
Grey (soft) Silty Sand (continued)							
599.17							
Grey Clay Loam Till							
2							
1 1.0							
2 P							
1							
2 1.2							
3 B							
1							
2 1.3							
3 B							
611.67							
Grey Silty Clay							
1 0.6							
3 P							
1							
1 0.5							
1 B							
808.67							
Grey Silty Sand							
1 0.3							
1 P							
804.17							
Brown/Grey Sandy Clay Loam							
1 0.5							
2 P							
801.67							
Brown (wet) Fine to Medium Sand							
1 0.3							
2							
2 1.7							

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

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 2 of 3
Date 2/7/06

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Over Carter Creek LOGGED BY J. Roberts
SECTION (41-A) BR LOCATION SEC. TWP. 4N. RING. 2W. 4th PM
COUNTY McDonough DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	SOIL	UCS Failure Mode	DEPTH (ft)	SOIL	UCS Failure Mode
Existing 055-0007 Prop. 567+37.85	5 (NE ABUT)						
Groundwater Elev.: 603.2 ft							
First Encounter Upon Completion Not Taken							
After 24 Hrs. 607.4 ft							
Ground Surface Elev. 620.67 ft							
Grey Clay Loam Till (continued)							
599.17							
3							
4 1.7							
5 B							
3							
4 1.5							
6 B							
595.17							
Grey Clay Loam Till							
2							
3 1.5							
5 B							
3							
4 1.2							
5 B							
2							
5 1.2							
7 B							
2							
4 1.6							
5							

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

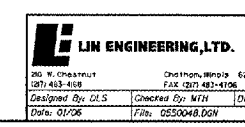
Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 3 of 3
Date 2/7/06

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Over Carter Creek LOGGED BY J. Roberts
SECTION (41-A) BR LOCATION SEC. TWP. 4N. RING. 2W. 4th PM
COUNTY McDonough DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	SOIL	UCS Failure Mode	DEPTH (ft)	SOIL	UCS Failure Mode
Existing 055-0007 Prop. 567+37.85	5 (NE ABUT)						
Groundwater Elev.: 603.2 ft							
First Encounter Upon Completion Not Taken							
After 24 Hrs. 607.4 ft							
Ground Surface Elev. 620.67 ft							
Grey Clay Loam Till (continued)							
599.17							
7							
8 B							
516.67							
Grey Shaley Clay							
3							
6 1.3							
9 B							
511.67							
Grey Silty Clay							
3							
6 1.6							
7 B							
505.67							
Dark Grey Shaley Clay							
9							
10 3.5							
13 B							
501.67							
Dark Grey Coal Shale							
5							
6 1.0							
6							

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

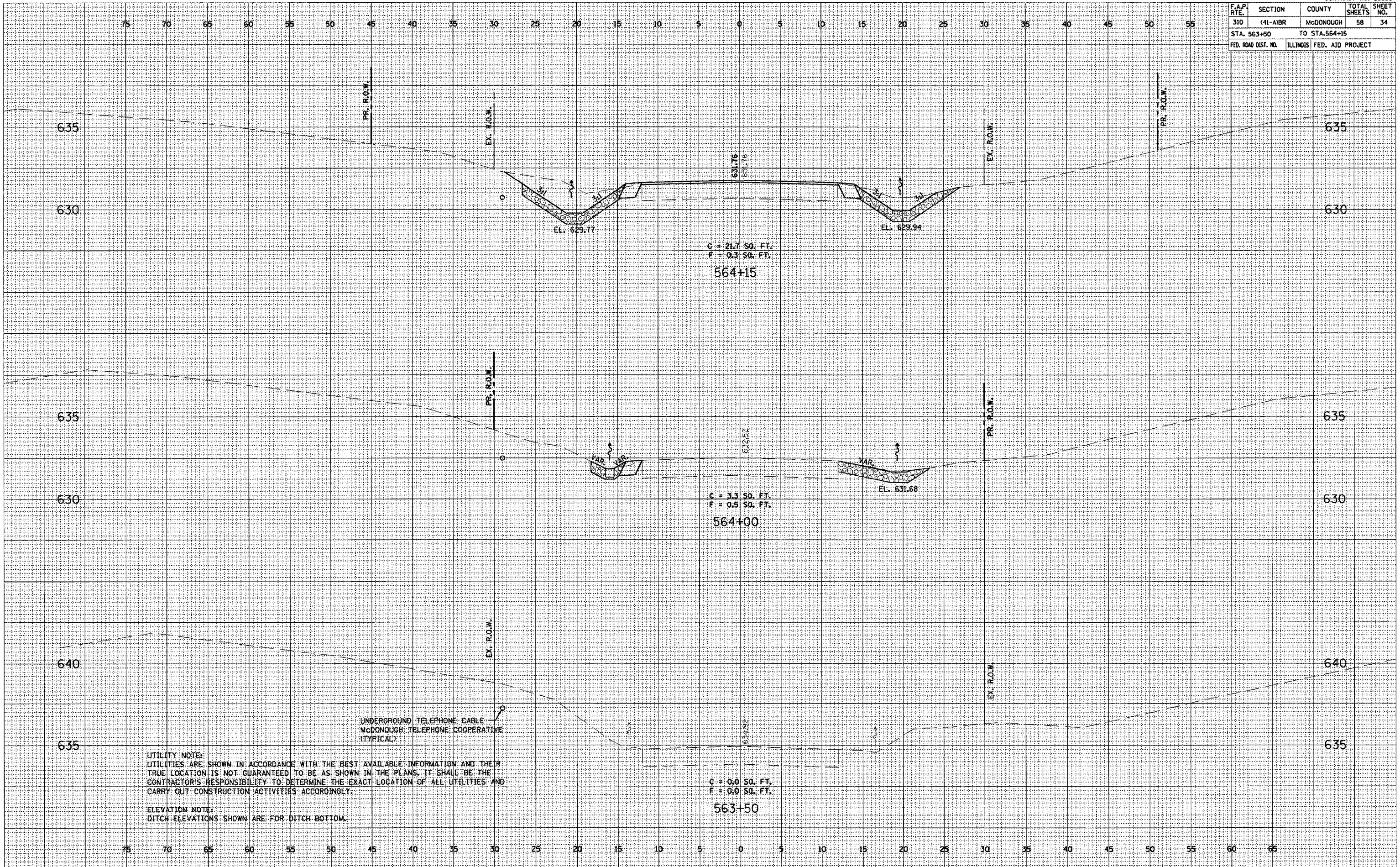
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	34
STA. 563+50		TO STA. 564+15		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

DATE	BY

NO.	AREAS CHECKED

DATE	BY

NO.	AREAS CHECKED



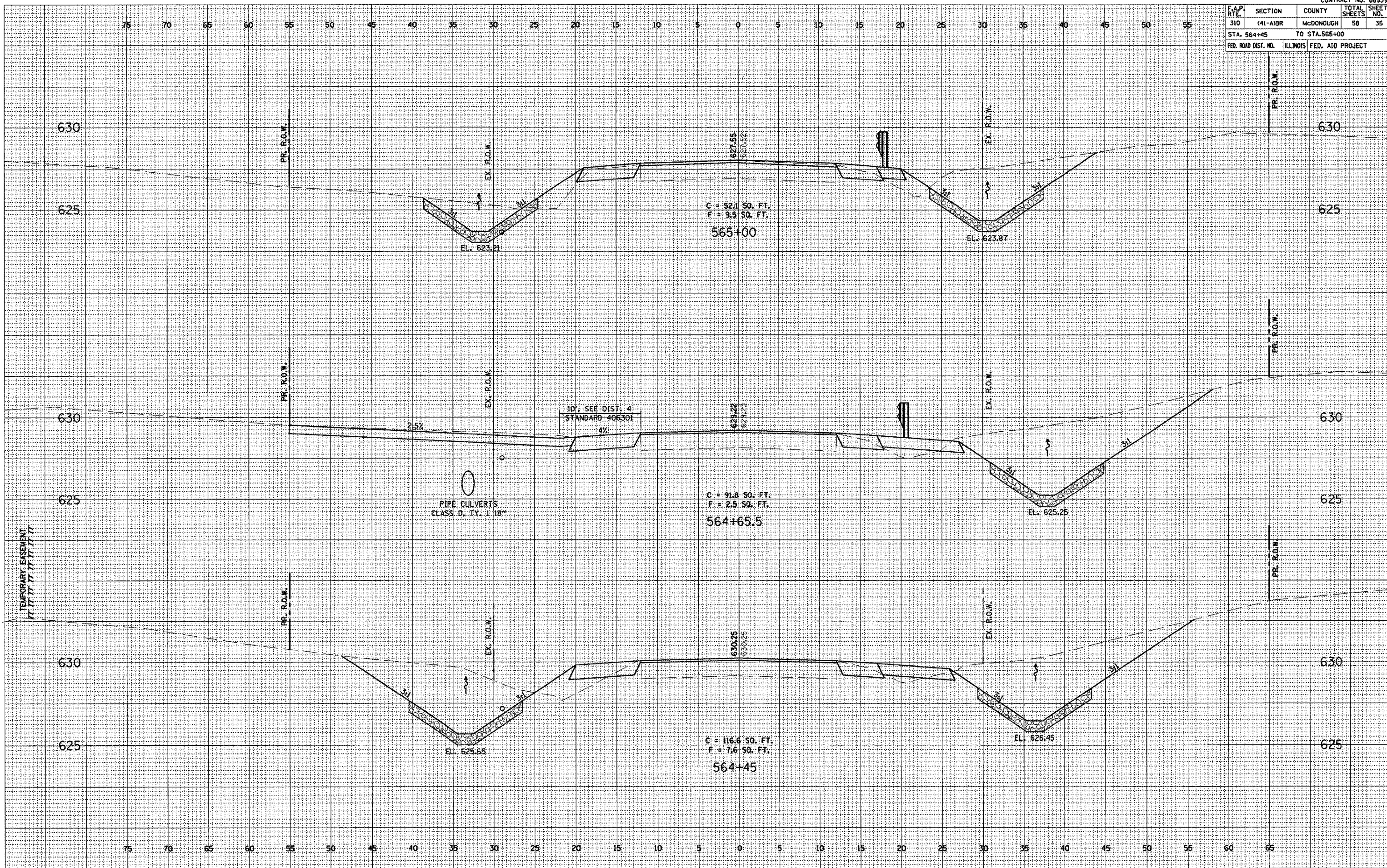
UTILITY NOTE:
 UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN IN THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY OUT CONSTRUCTION ACTIVITIES ACCORDINGLY.

ELEVATION NOTE:
 DITCH ELEVATIONS SHOWN ARE FOR DITCH BOTTOM.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	35
STA. 564+45		TO STA. 565+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BY	DATE

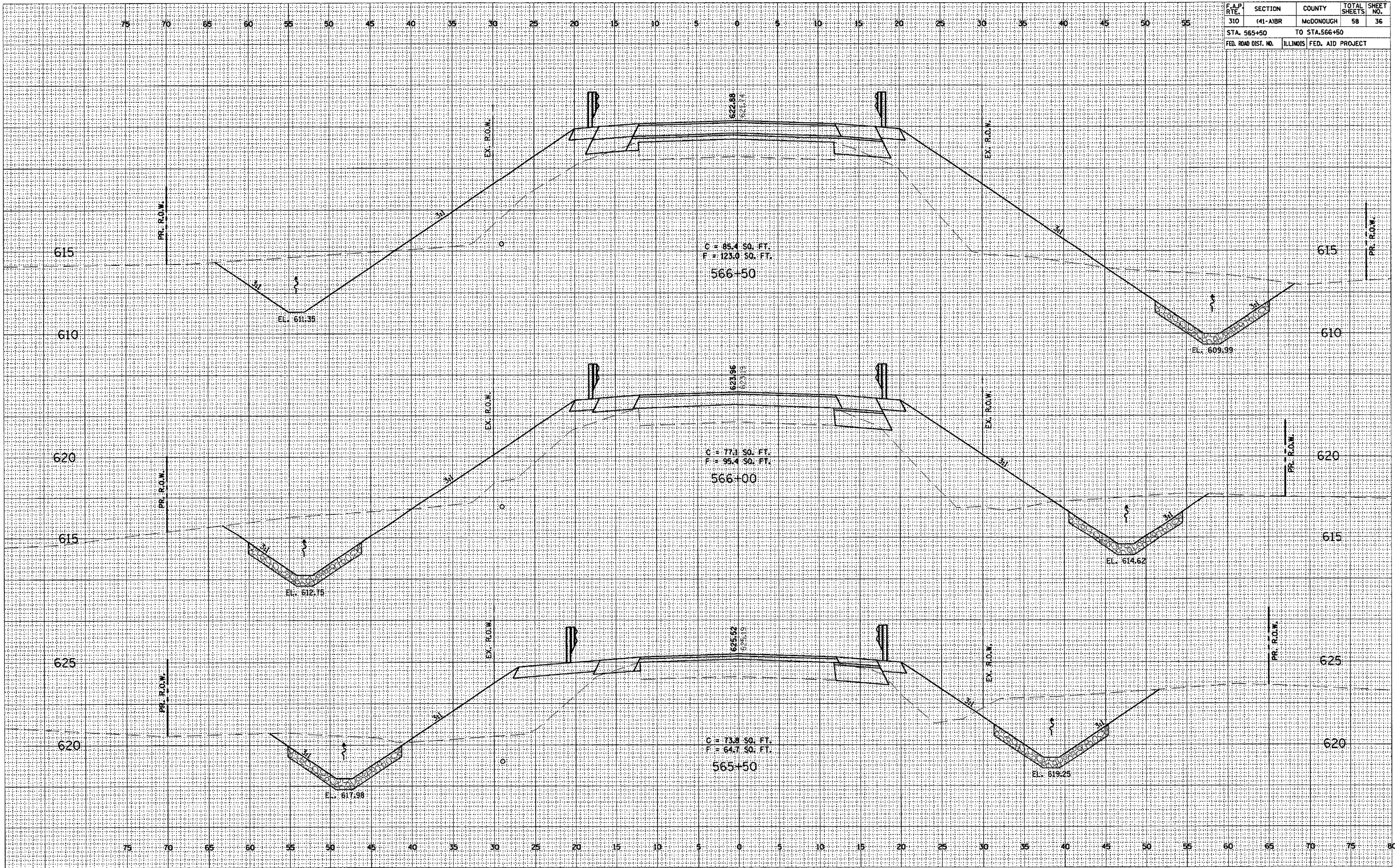
BY	DATE



CONTRACT NO. 88939				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	36
STA. 565+50		TO STA. 566+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY

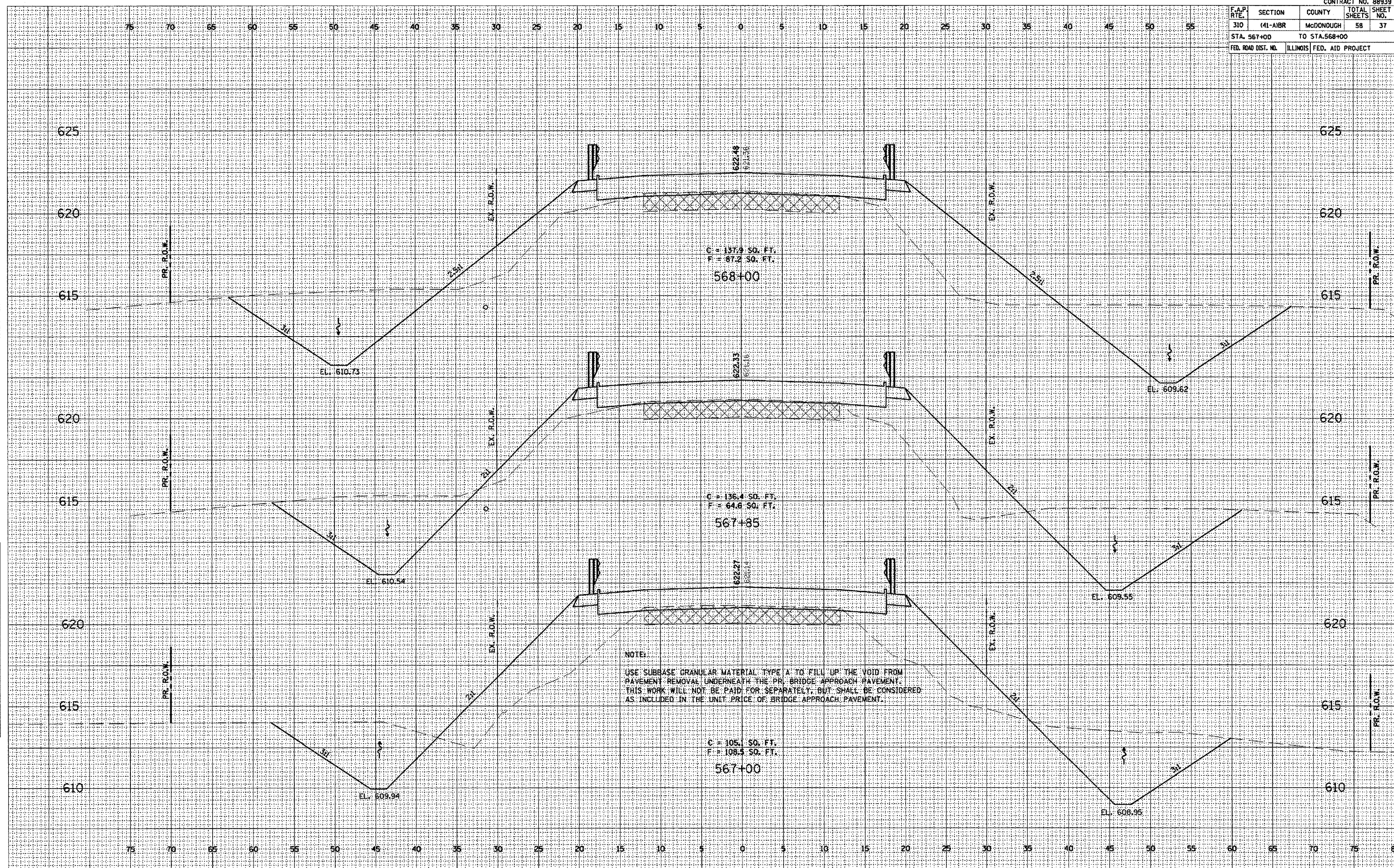
DATE	BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	37
STA. 567+00		TO STA. 568+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



NOTE:
USE SUBBASE GRANULAR MATERIAL TYPE A TO FILL UP THE VOID FROM PAVEMENT REMOVAL UNDERNEATH THE PR. BRIDGE APPROACH PAVEMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT PRICE OF BRIDGE APPROACH PAVEMENT.

C = 137.9 SQ. FT.
F = 87.2 SQ. FT.
568+00

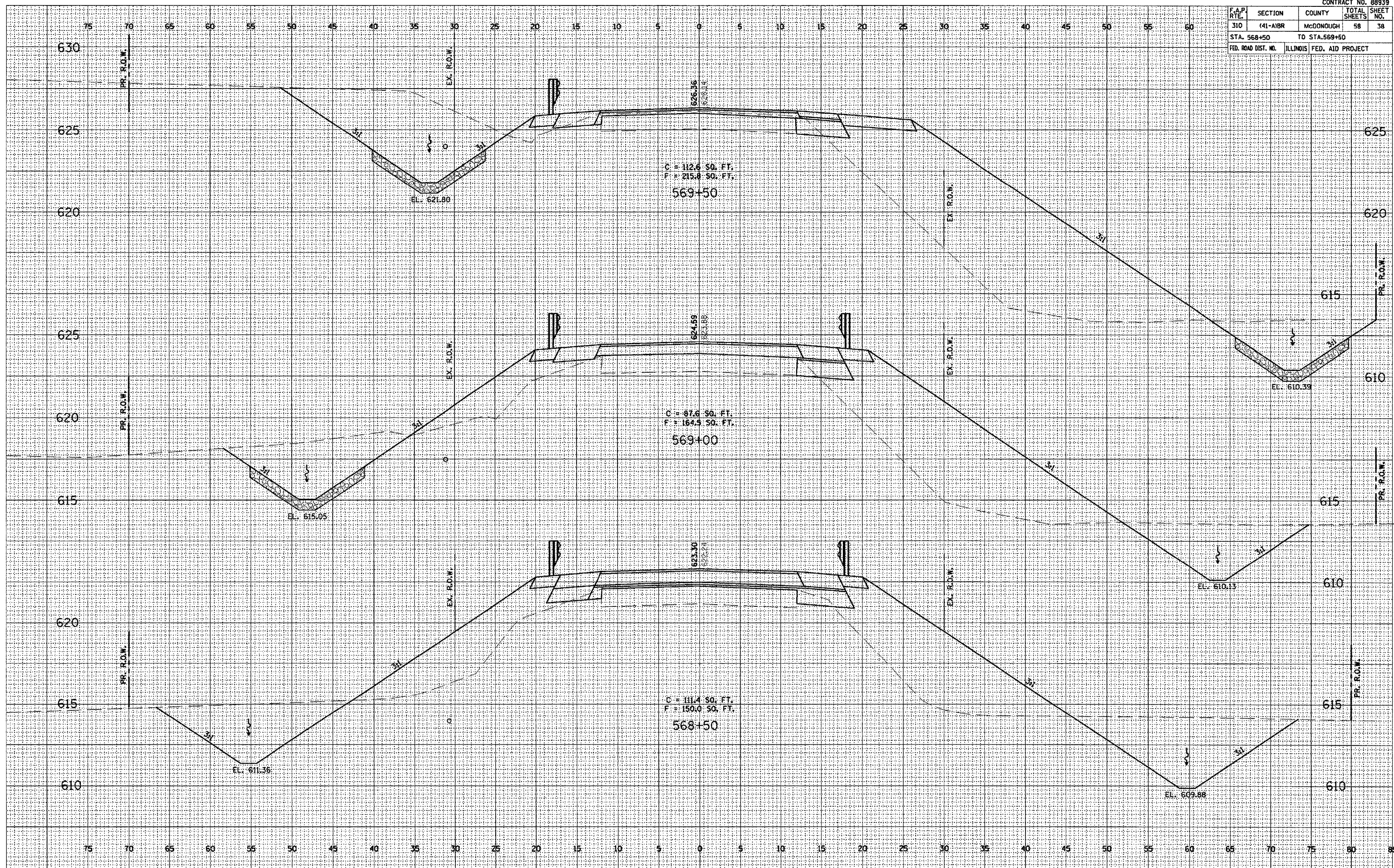
C = 136.4 SQ. FT.
F = 64.6 SQ. FT.
567+85

C = 105.1 SQ. FT.
F = 108.5 SQ. FT.
567+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	38
STA. 568+50		TO STA. 569+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
CLARIFIED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
CLARIFIED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS	
CHECKED	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	MCDONOUGH	58	39
STA. 570+00		TO STA. 570+30		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE _____ BY _____

FINAL SURVEY _____

PLOTTED _____

NOTE BOOK _____

AREAS CHECKED _____

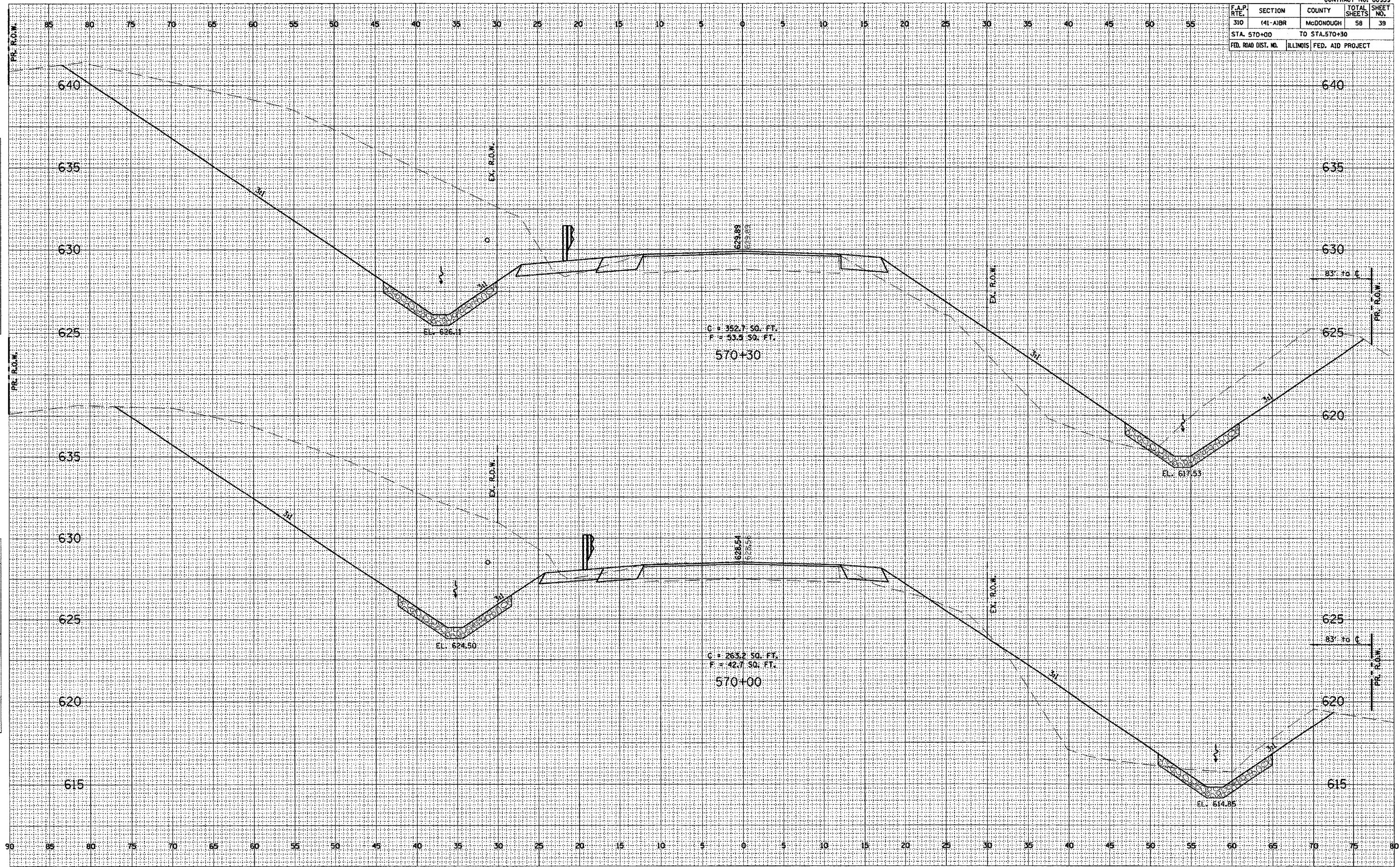
DATE _____ BY _____

ORIGINAL SURVEY _____

PLOTTED _____

NOTE BOOK _____

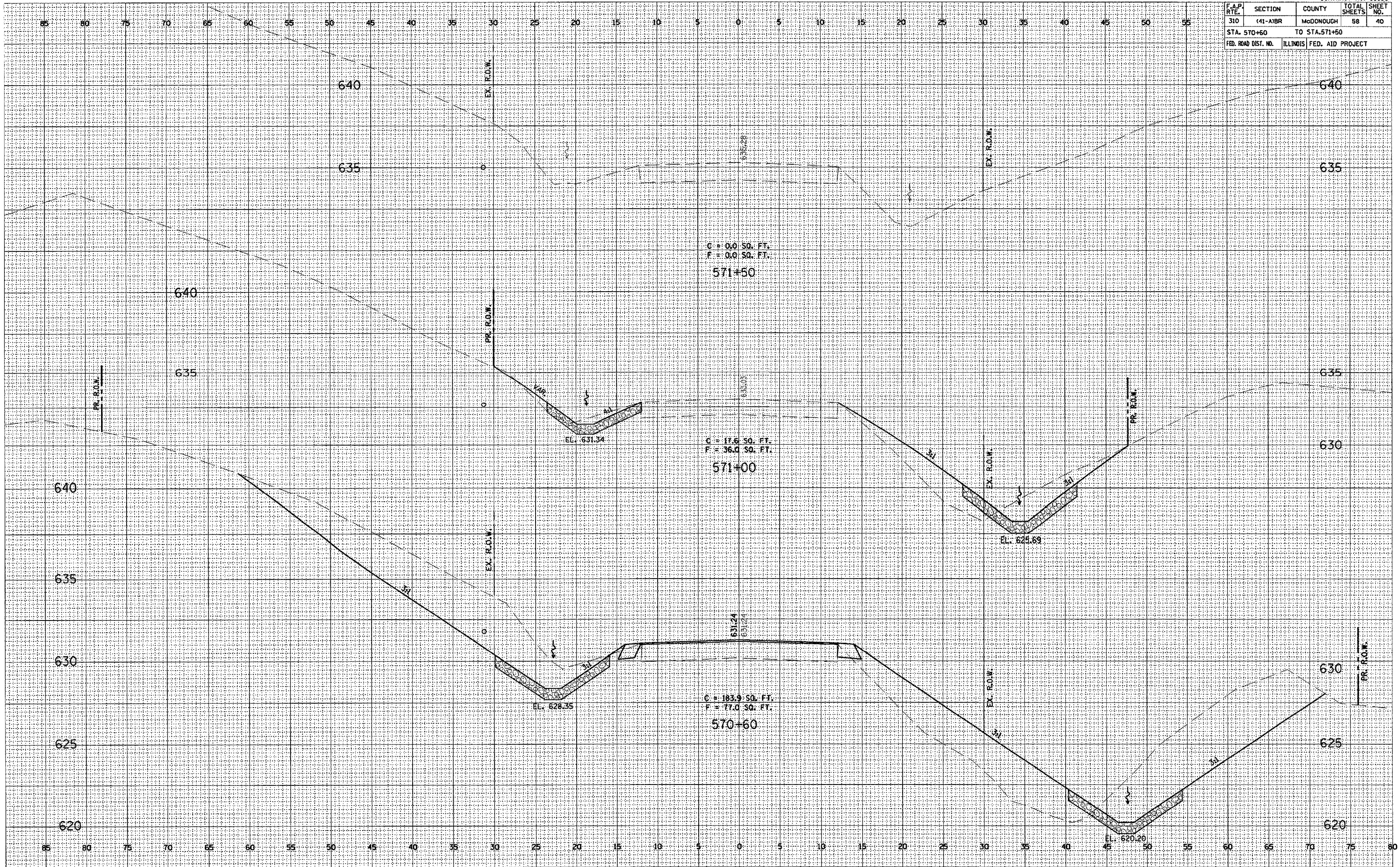
AREAS CHECKED _____



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-A1BR	MCDONOUGH	58	40
STA. 570+60		TO STA. 571+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
TRANSFERRED	BY
FLIPPED	
TEMPLATE	
AREAS	
CHECKED	

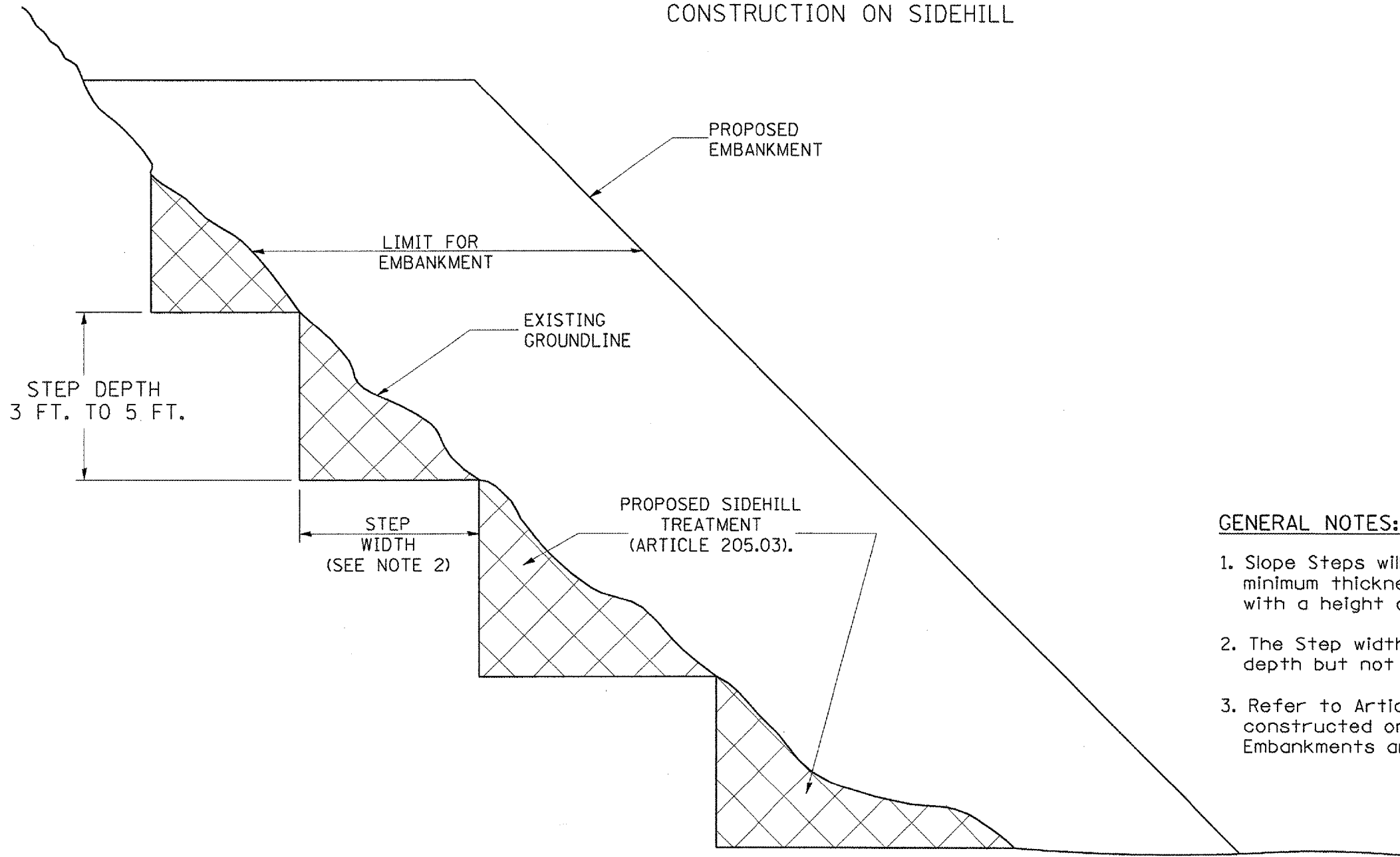
ORIGINAL SURVEY	DATE
TRANSFERRED	BY
FLIPPED	
TEMPLATE	
AREAS	
CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 300(12) minimum thickness "silver fills" and on a fills with a height of 3.0m(10').
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
 (IN ACCORDANCE WITH
 205 OF THE STANDARD SPECIFICATION).

All dimensions are in millimeters
 (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD

DATE	REVISIONS	BY
1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.

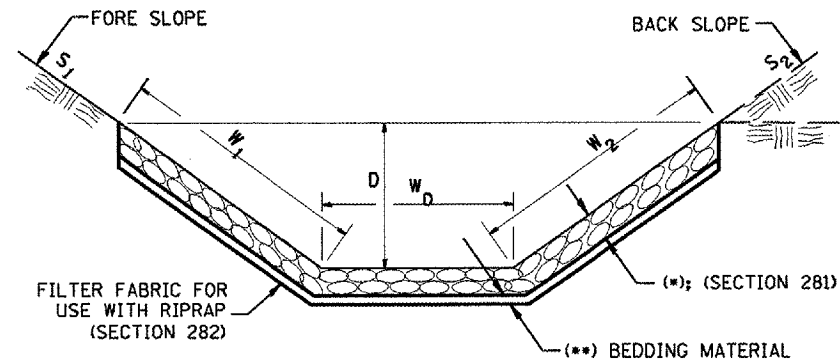
**SLOPE STEPS
 DETAIL**

CADD STD. NO. 205001-D4
 SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-A1BR	McDONOUGH	58	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

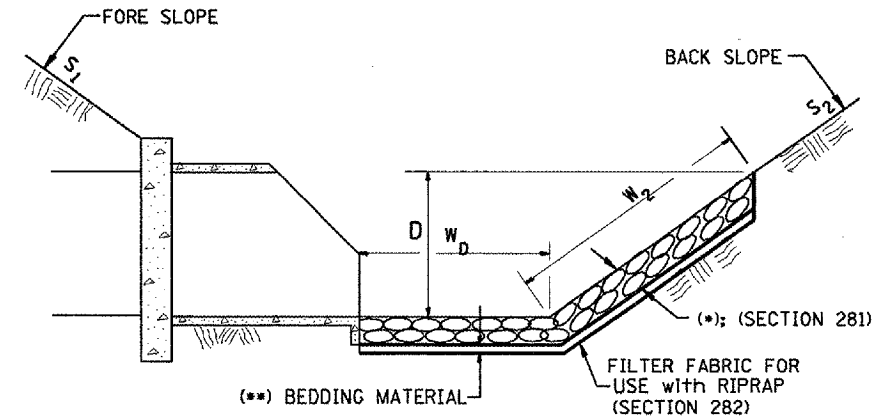
**CASE 1
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	m (lin ft)	m (lin ft)	m tons (tons)	m ² (sq yds)
TOTAL				

(1) WIDTH = $W_1 + W_2 + W_D$

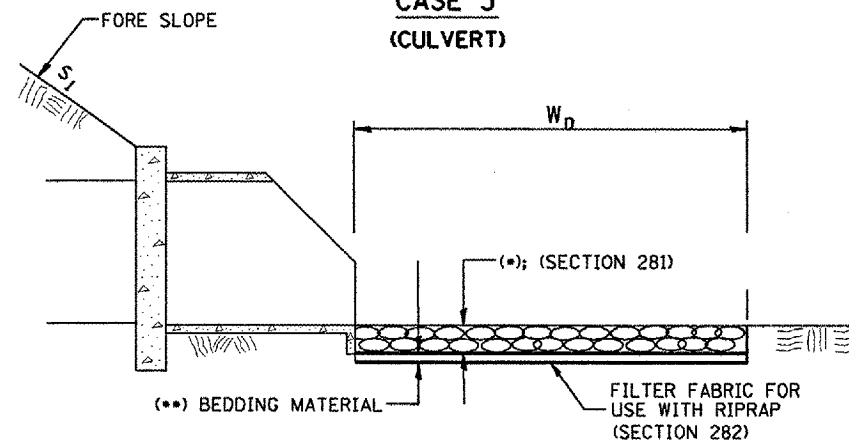
**CASE 2
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	m (lin ft)	m (lin ft)	m tons (tons)	m ² (sq yds)
TOTAL				

(1) WIDTH = $W_2 + W_D$

**CASE 3
(CULVERT)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	m (lin ft)	m (lin ft)	m tons (tons)	m ² (sq yds)
TOTAL				

(1) WIDTH = W_D

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL SHEET

**RIPRAP DITCH FOR
EROSION PROTECTION**

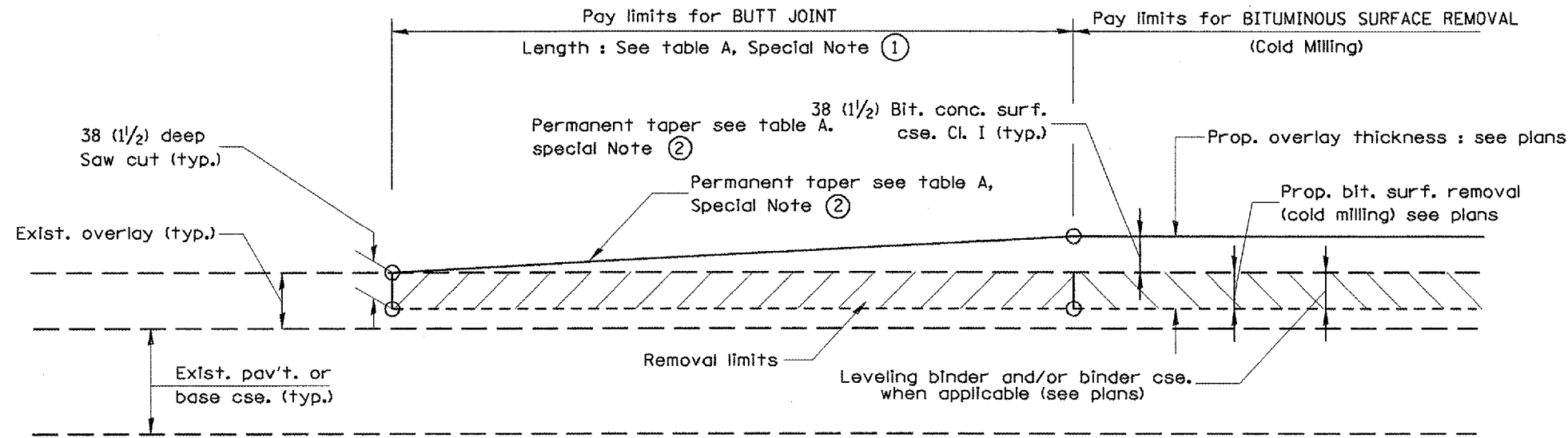
CADD DETAIL 281001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.

\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	43
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



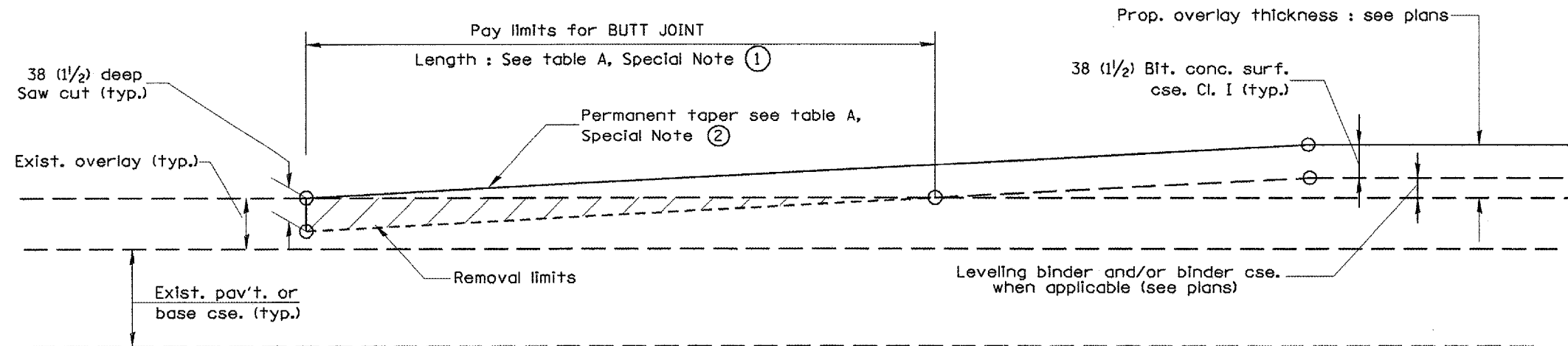
CASE 1 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	18.0 m(60')	9.0 m(30')
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	3.0 m(10')	1.5 m(5')
⑤	LENGTH OF BUTT JOINT	3.0 m(10')	3.0 m(10')

GENERAL NOTES

1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.



CASE 2 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)

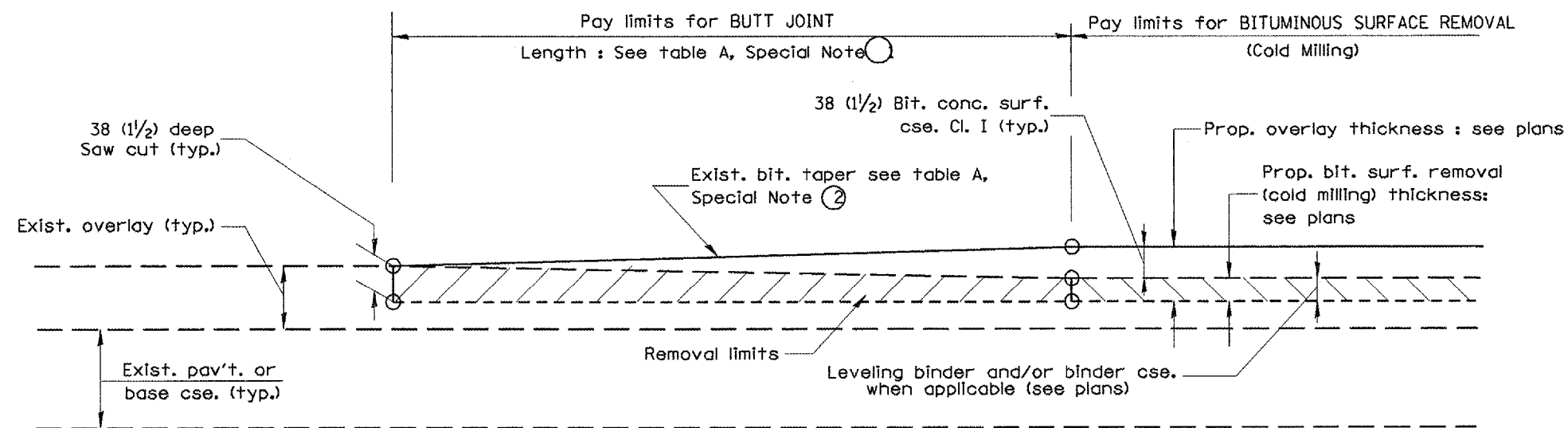
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
BUTT JOINTS
 CADD STD NO. 406101-D4 SHEET 1 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
 DATE **DATE** CHECKED BY

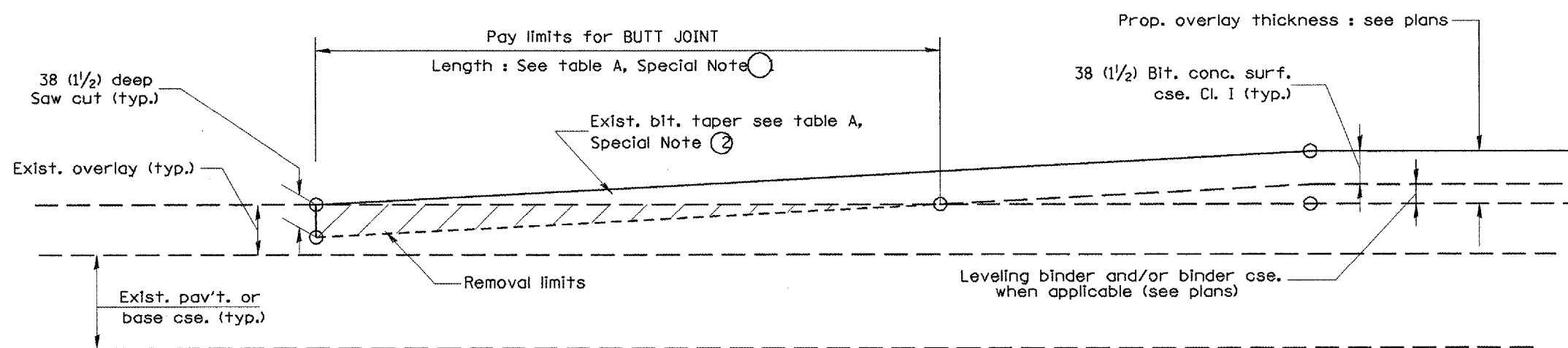
DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

\$\$\$DATE\$\$\$

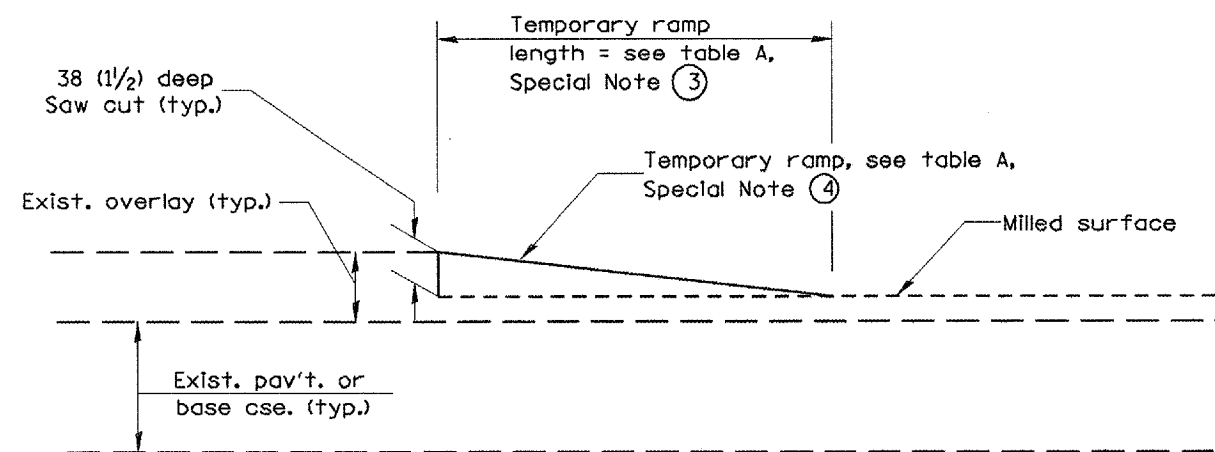
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-A1BR	MCDONOUGH	58	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**CASE 3 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**

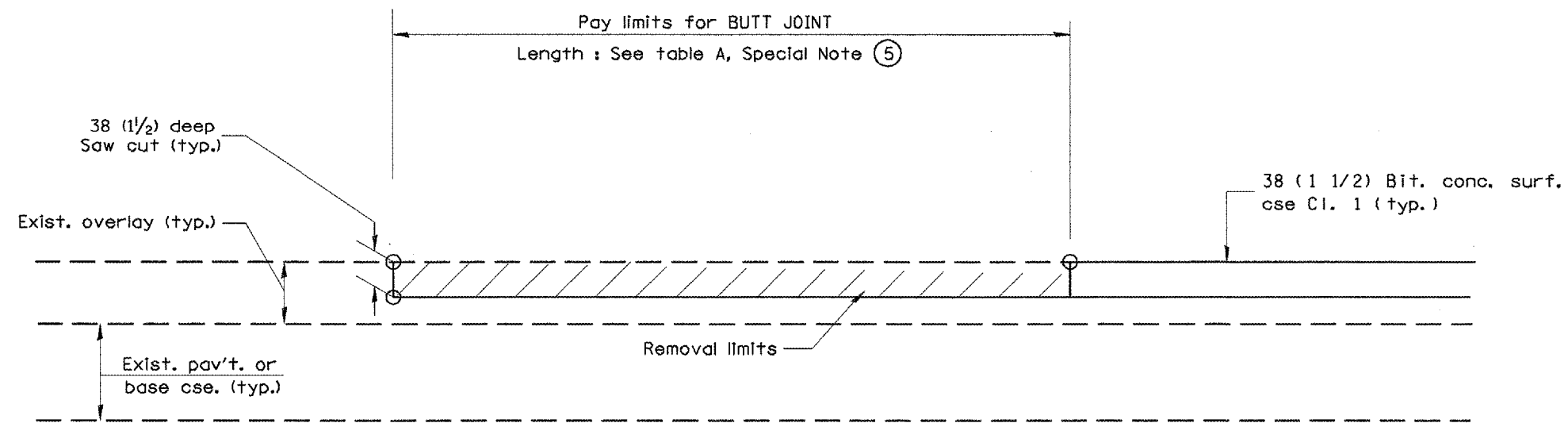


DETAIL TEMPORARY RAMP

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
BUTT JOINTS	
CADD STD NO. 406101-D4	SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 5 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in millimeters
(Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 3 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
CHECKED BY

406101-D4 (3)

\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-A1BR	McDONOUGH	58	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

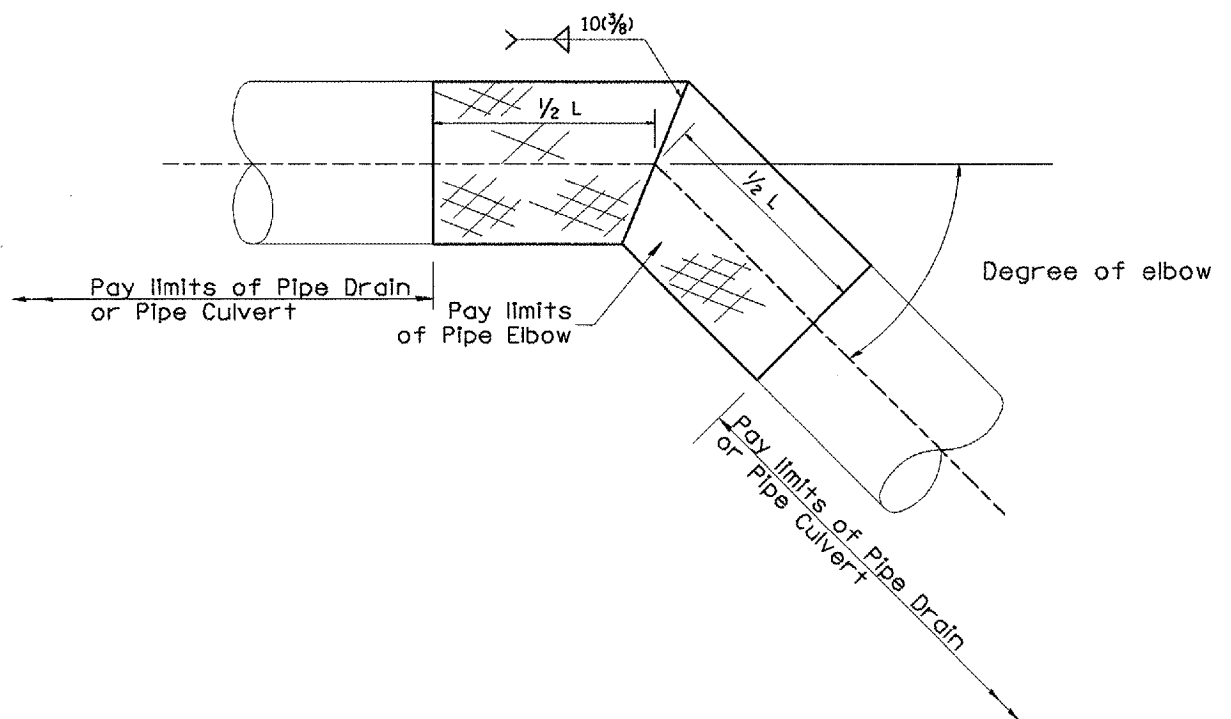
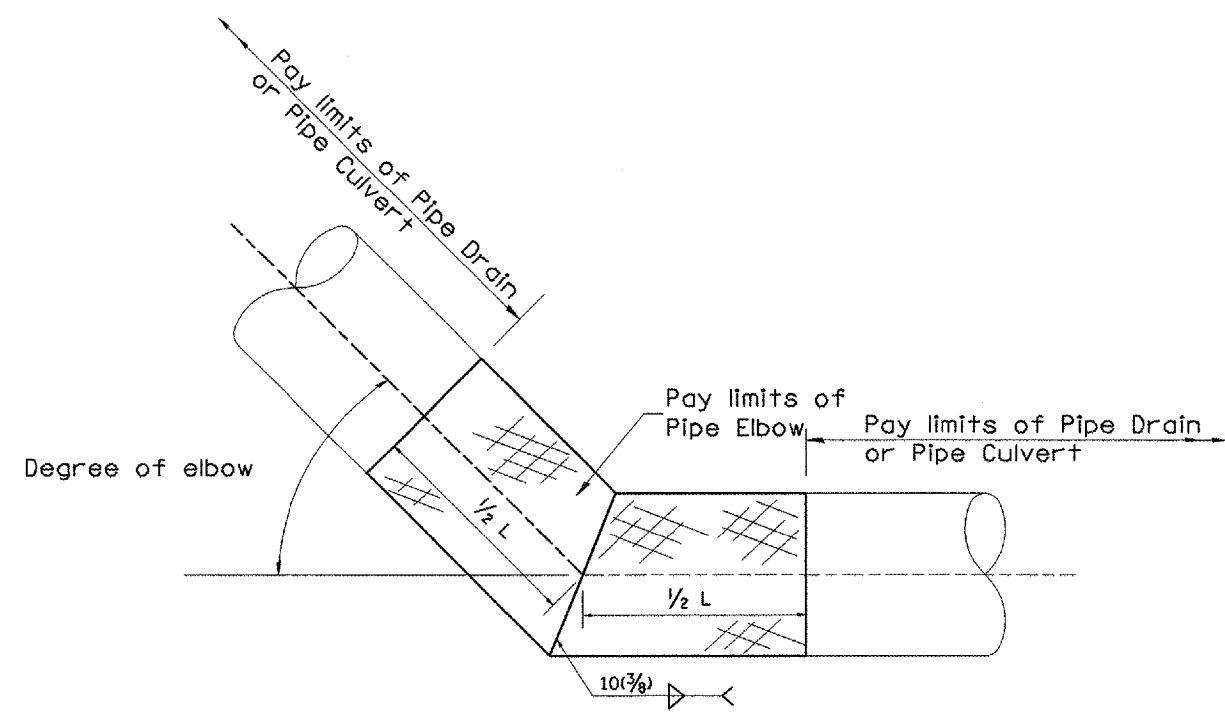


TABLE A ELBOW DESIGN CONTROLS		
PIPE DIAMETER	L = Pay limits of Pipe Elbow and minimum length of pipe required for fabrication	
	DEGREE OF ELBOW ≤ 45°	DEGREE OF ELBOW ≥ 46°
300(12)	600(24)	1.22M(4')
375(15)	600(24)	1.22M(4')
450(18)	600(24)	1.22M(4')
525(21)	600(24)	1.22M(4')
600(24)	1.22M(4')	1.22M(4')
750(30)	1.22M(4')	1.83M(6')
900(36)	1.22M(4')	1.83M(6')

TABLE B ELBOW DESIGN CONTROLS	
EARTH SLOPE (V:H)	DEGREE OF ELBOW *
1:6	9°
1:4	14°
1:3	18°
1:2	26°
1:1/2	33°

* Approximate - based upon 0.5% inlet and outlet flowlines.



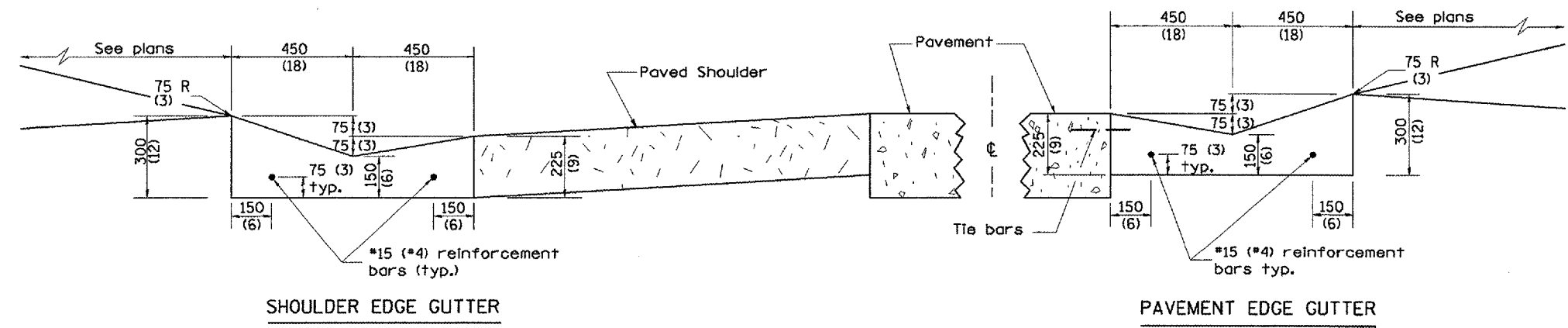
All dimensions are in millimeters (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
PIPE ELBOW	
CADD STD. NO. 601301-04	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY

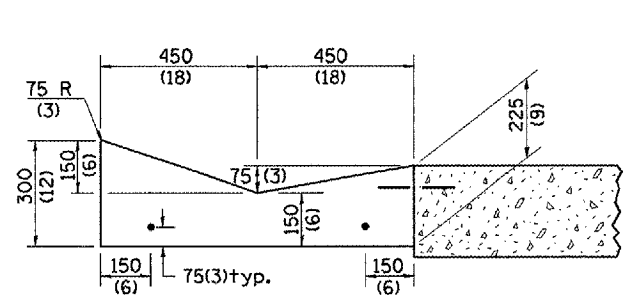
DATE	REVISIONS	BY
1-1-97	RENUM. J-11.05, NEW REVISION BOX, REVISED TITLE BOX	T.P.

DATE

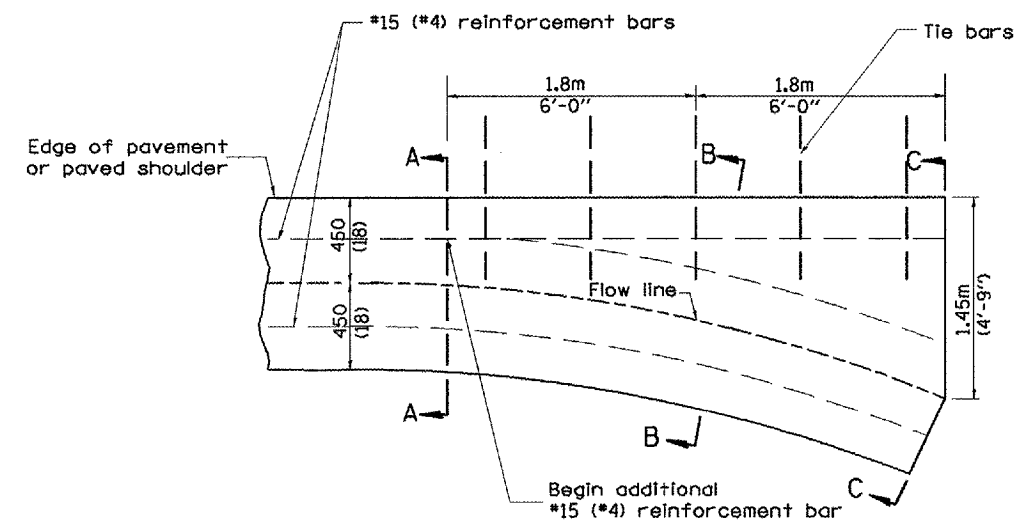
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPE A GUTTER (MODIFIED)

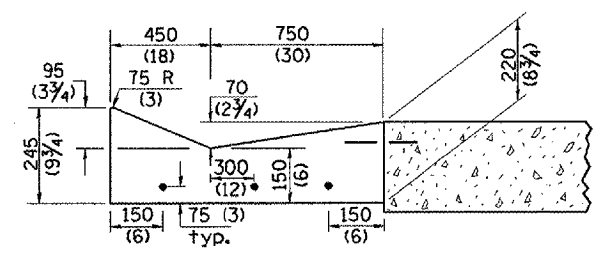


SECTION A-A

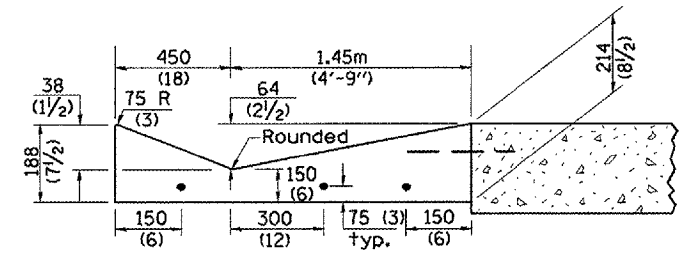


PLAN

QUANTITY	
Section C-C to A-A	m ³ (cu. yd.) concrete.



SECTION B-B



SECTION C-C

INLET

GENERAL NOTES:

1. TYPE A GUTTER (MODIFIED) shall conform to the applicable portions of Section 606.
2. Tie bars shall be No. 20 (No. 6) at 600mm (24") centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 2.83 kg/m² (58 lbs/100 sq.ft.).

DESIGNER NOTE:
1. INCLUDE STATE STANDARD 420001.
2. INCLUDE DISTRICT SPECIAL PROVISION.

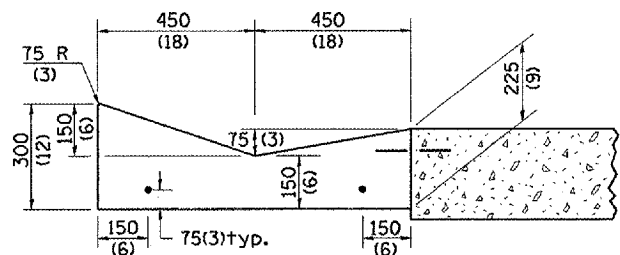
QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

All dimensions are in millimeters (inches) unless otherwise noted.

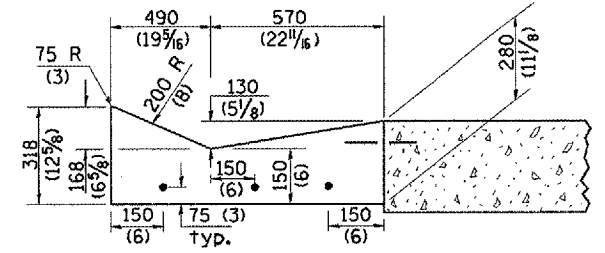
ILLINOIS DEPARTMENT OF TRANSPORTATION		
DISTRICT CADD STANDARD		
TYPE A GUTTER, (MODIFIED)		
(INLET, OUTLET & ENTRANCE)		
CADD STANDARD 606101-D4		SHEET 1 OF 3
SCALE: NOT DRAWN TO SCALE		DRAWN BY CADD
		CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. A-1.02, NEW REVISION BOX, ELIMINATED EXPANSION ANCHOR TIES	T.P.
2-28-02	ENTRANCE TYPICALS REVISED	M.A.

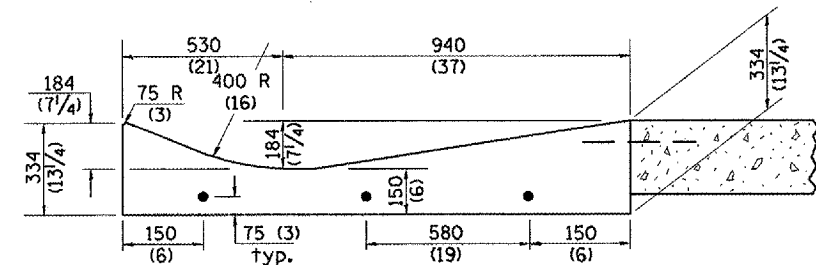
CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



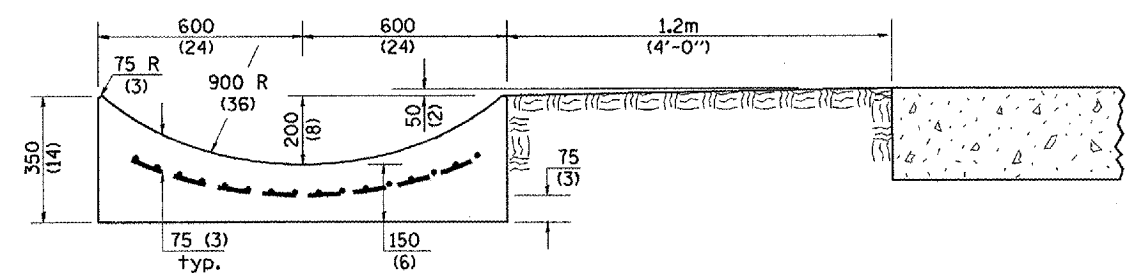
SECTION A-A



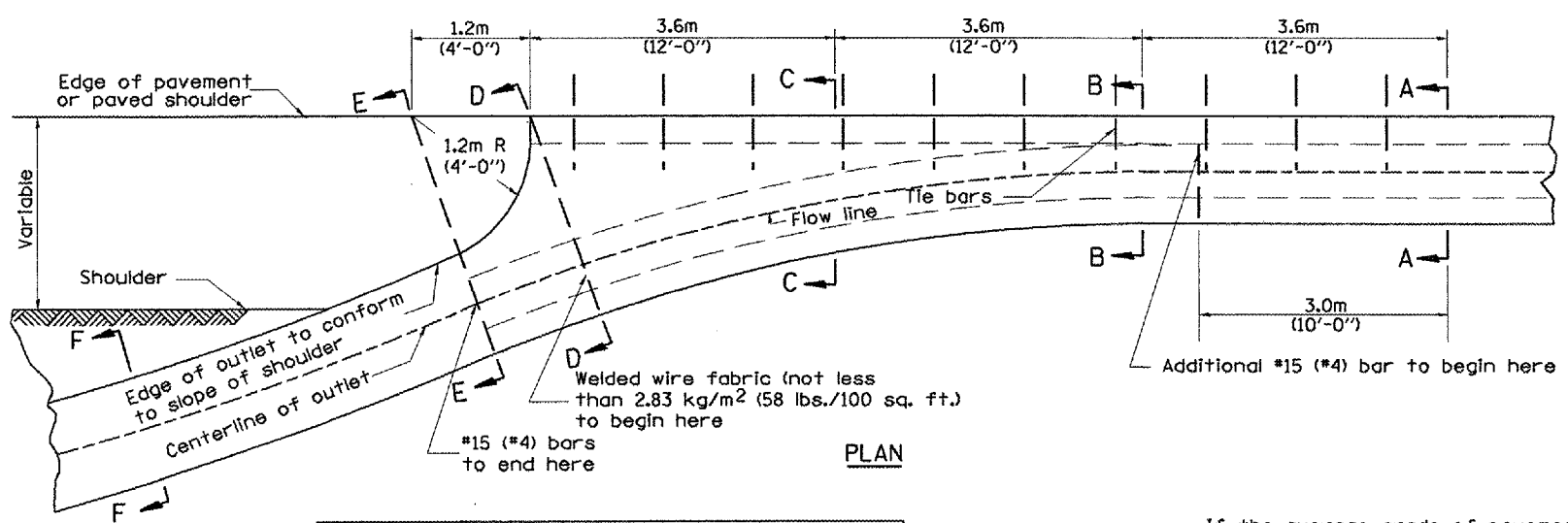
SECTION B-B



SECTION C-C



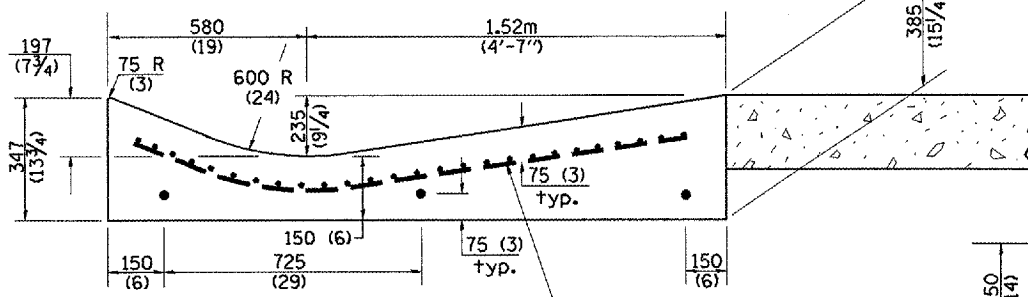
SECTION E-E



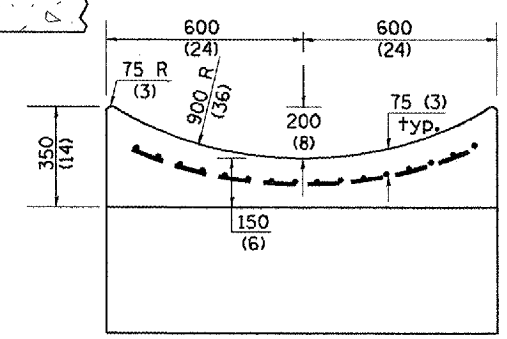
PLAN

QUANTITY
 Section A-A to E-E = m³ (cu. yd.) concrete.
 Section F-F = m³ (cu. yd./ft.) concrete.

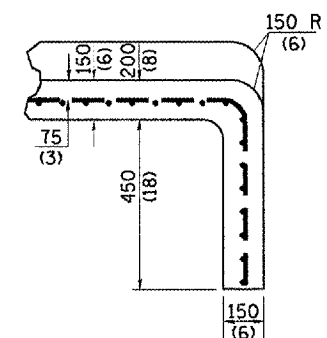
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 1.8 m (6 ft.) for each 1% increase in grade. A quantity adjustment is required.



SECTION D-D

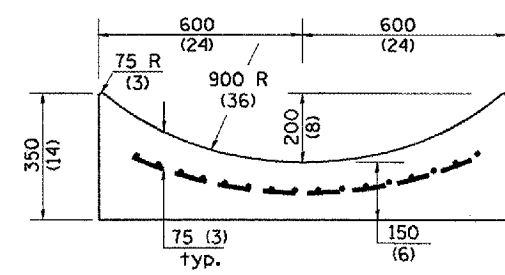


SECTION F-F



SECTIONS AT END OF OUTLET (CURTAIN WALL)

QUANTITY
 Curtain Wall
 m³ (cu. yd.) concrete.



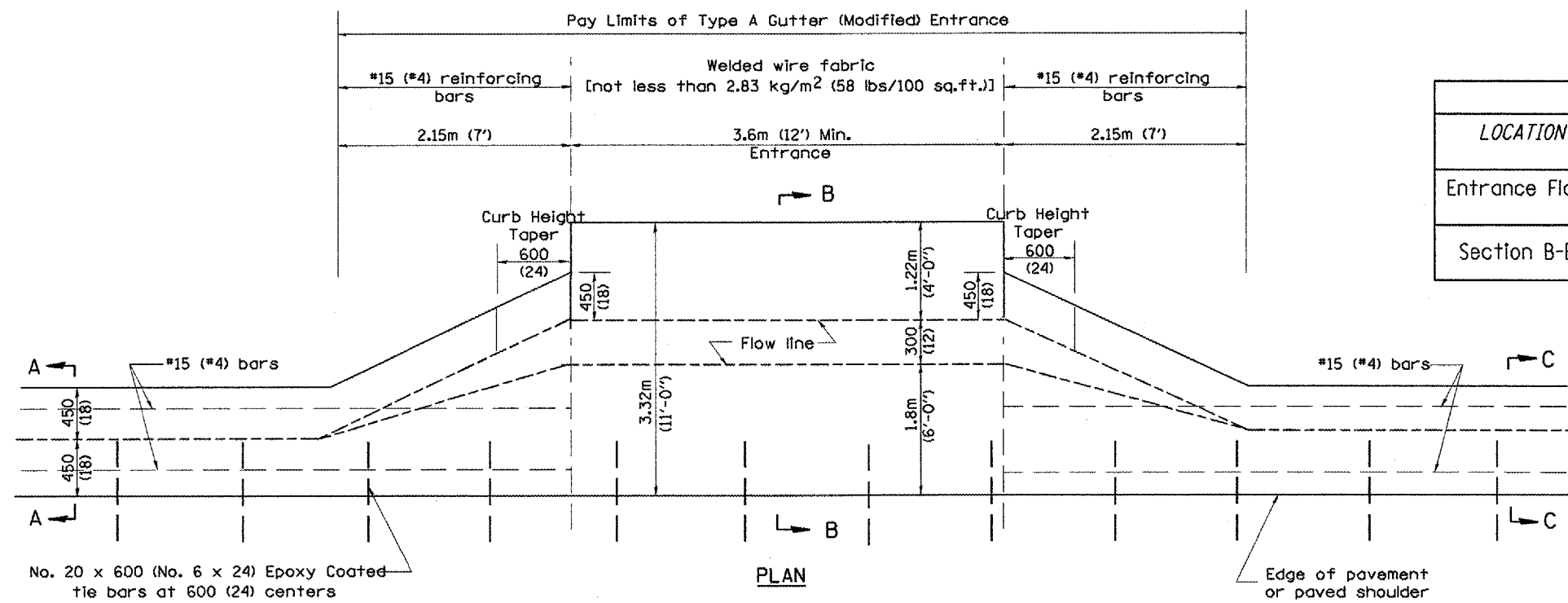
QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

All dimensions are in millimeters (Inches) unless otherwise noted.

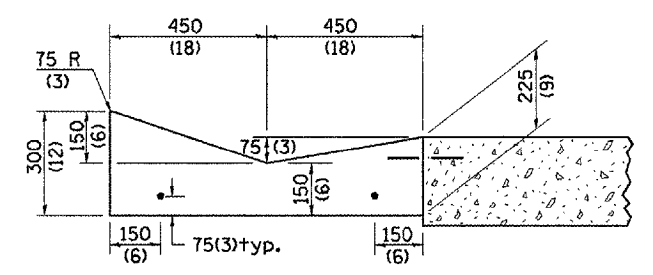
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
TYPE A GUTTER, (MODIFIED) (INLET, OUTLET & ENTRANCE)	
CADD STANDARD 606101-D4	SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3101	41-AJBR	McDONOUGH	58	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

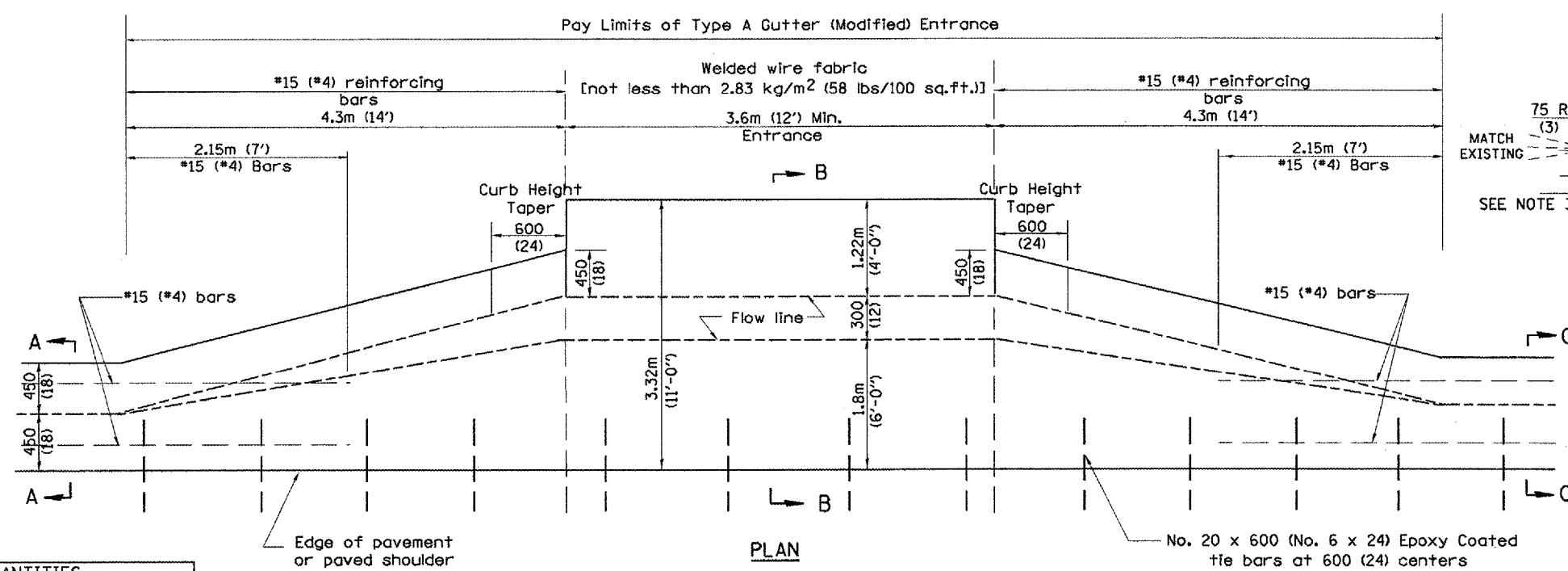
QUANTITY CALCULATION			
LOCATION	LENGTH	NON-COMMERCIAL 150 (6)	COMMERCIAL ENTRANCE 200 (8)
Entrance Flare	2.15 m (7 Ft) Urban 4.30 m (14 Ft) Rural	0.37 Cu M / M (0.15 Cu Yd / Ft)	0.45 Cu M / M (0.18 Cu Yd / Ft)
Section B-B	See Plans	0.57 Cu M / M (0.23 Cu Yd / Ft)	0.70 Cu M / M (0.28 Cu Yd / Ft)



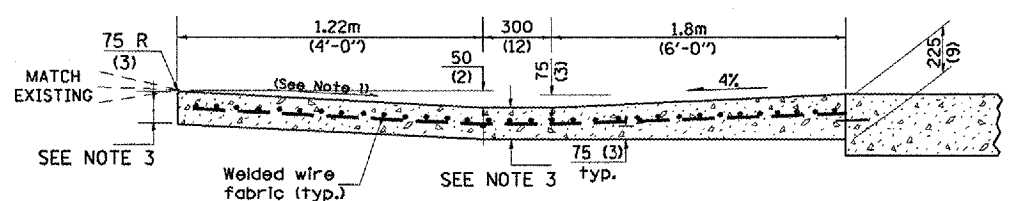
TYPICAL URBAN ENTRANCE



SECTION A-A & C-C



TYPICAL RURAL ENTRANCE



SECTION B-B

- GENERAL NOTES
- Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.
 - The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.
 - For Non-Commercial Entrances the driveway thickness shall be 150 (6). For Commercial Entrances the driveway thickness shall be 200 (8).

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPE A GUTTER, (MODIFIED)
(INLET, OUTLET & ENTRANCE)
 CADD STANDARD 606101-D4 SHEET 3 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
 CHECKED BY

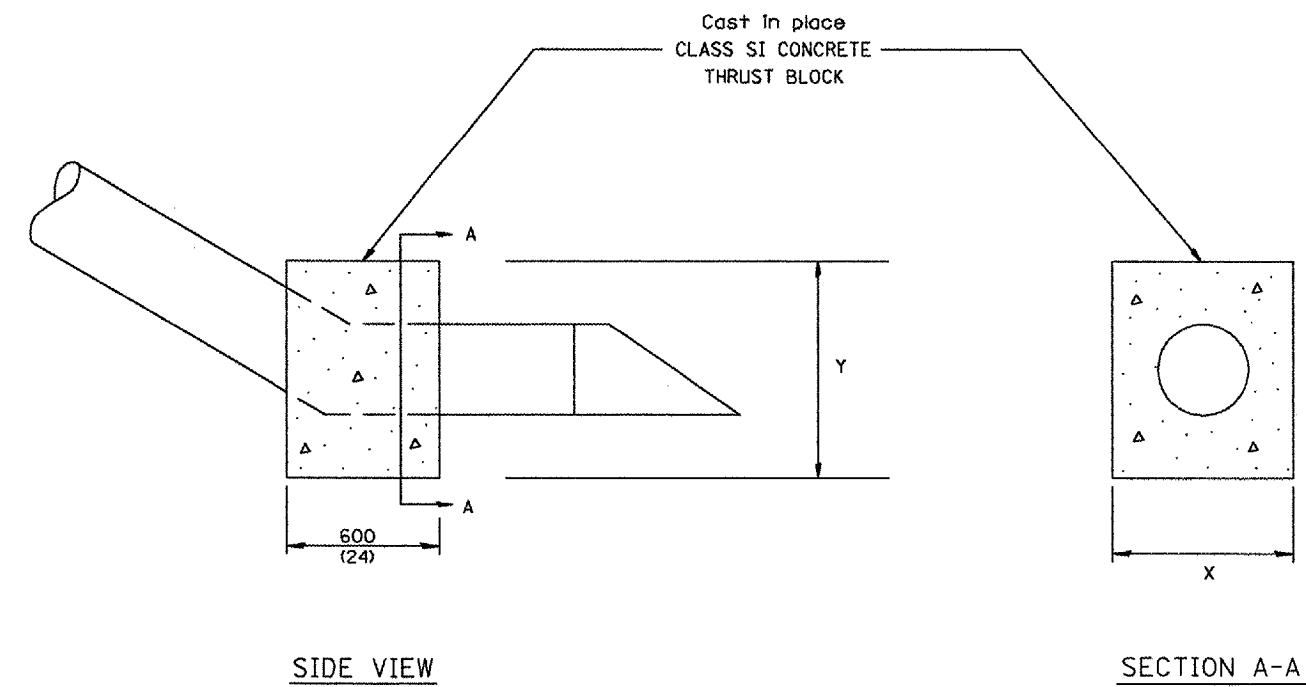
QUANTITIES
 CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 QUANTITY CALCULATIONS ARE ON
 FILE AT THE DISTRICT 4 OFFICE;
 BUREAU OF PROJECT IMPLEMENTATION;
 DOCUMENTATION SECTION

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-ABR	McDONOUGH	58	50
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONCRETE THRUST BLOCK BILL OF MATERIALS

PIPE SIZE	X	Y	CLASS SI CONCRETE m ³ (cu. yd.)
300(12)	600(24)	600(24)	0.2(0.2)
375(15)	675(27)	675(27)	0.2(0.3)
450(18)	750(30)	750(30)	0.2(0.3)
600(24)	900(36)	900(36)	0.3(0.4)
750(30)	1.07m (3'-6")	1.07m (3'-6")	0.6(0.8)



The contract unit price each for CONCRETE THRUST BLOCK shall include the cost of excavation, CLASS SI CONCRETE and compacted backfill.

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

CONCRETE THRUST BLOCKS

CADD STD. NO. 609001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. J-10.04, NEW REVISION BOX, ADDED QUANTITY CALCULATION BOX.	T.P.

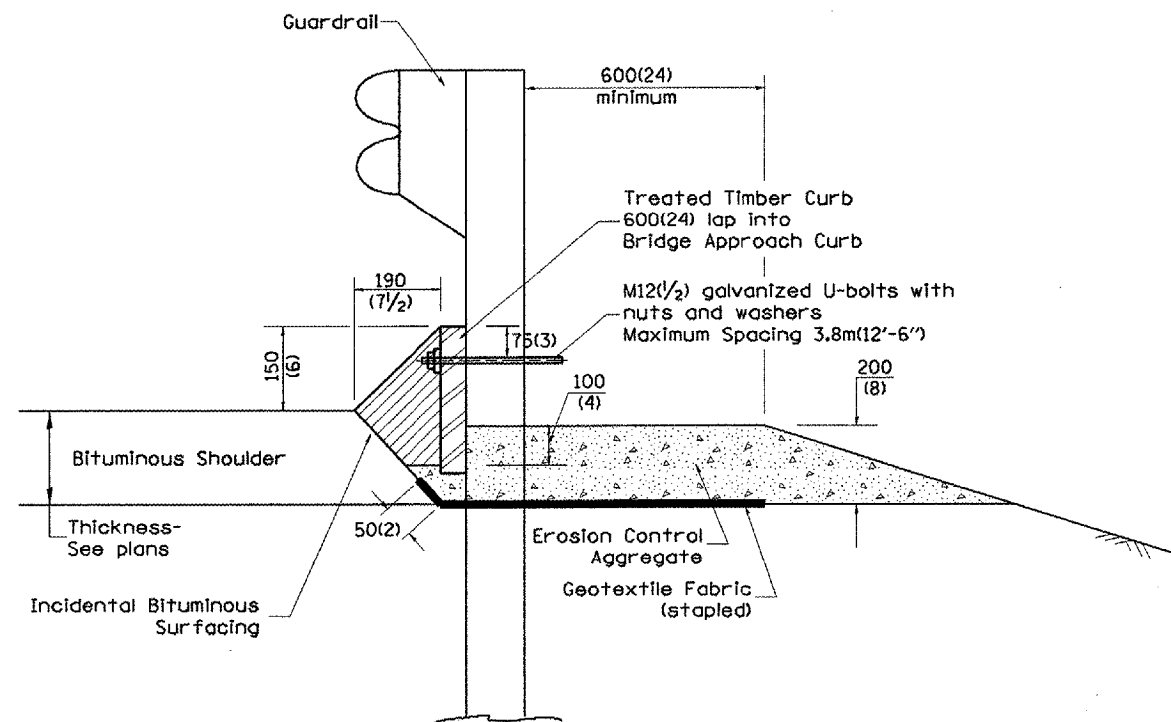
QUANTITIES

CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

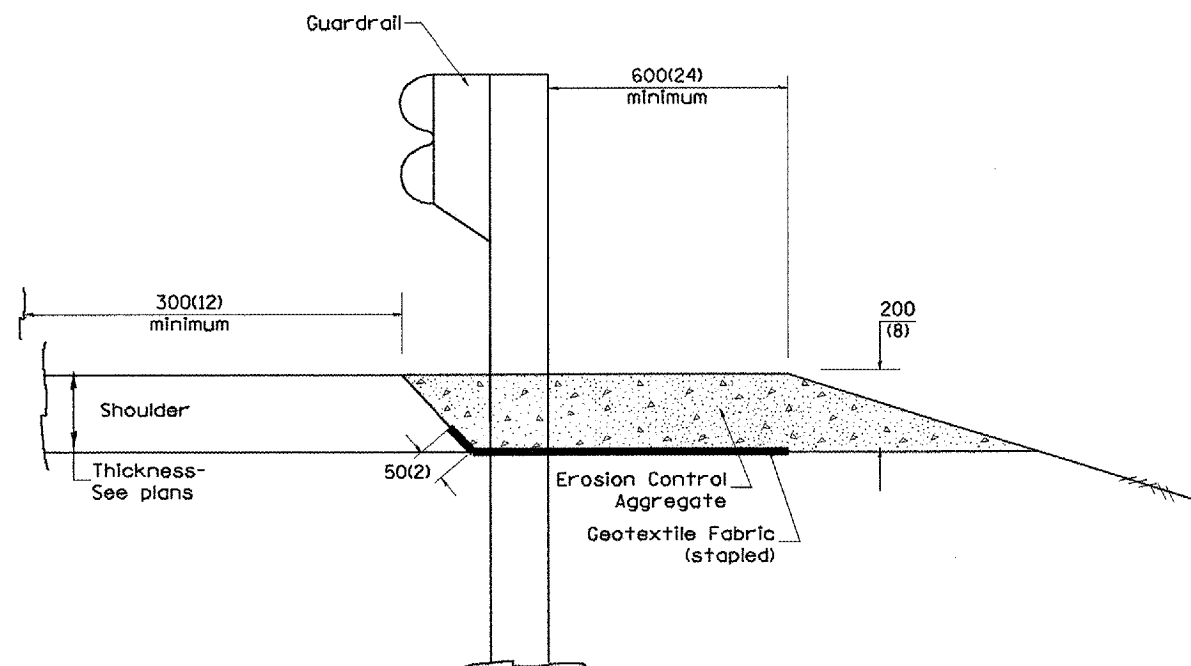
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE, BUREAU OF PROJECT IMPLEMENTATION, DOCUMENTATION SECTION

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-A1BR	McDONOUGH	58	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 6.4 kg/m³ (0.40 lbs./cu. ft.)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 300(12) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

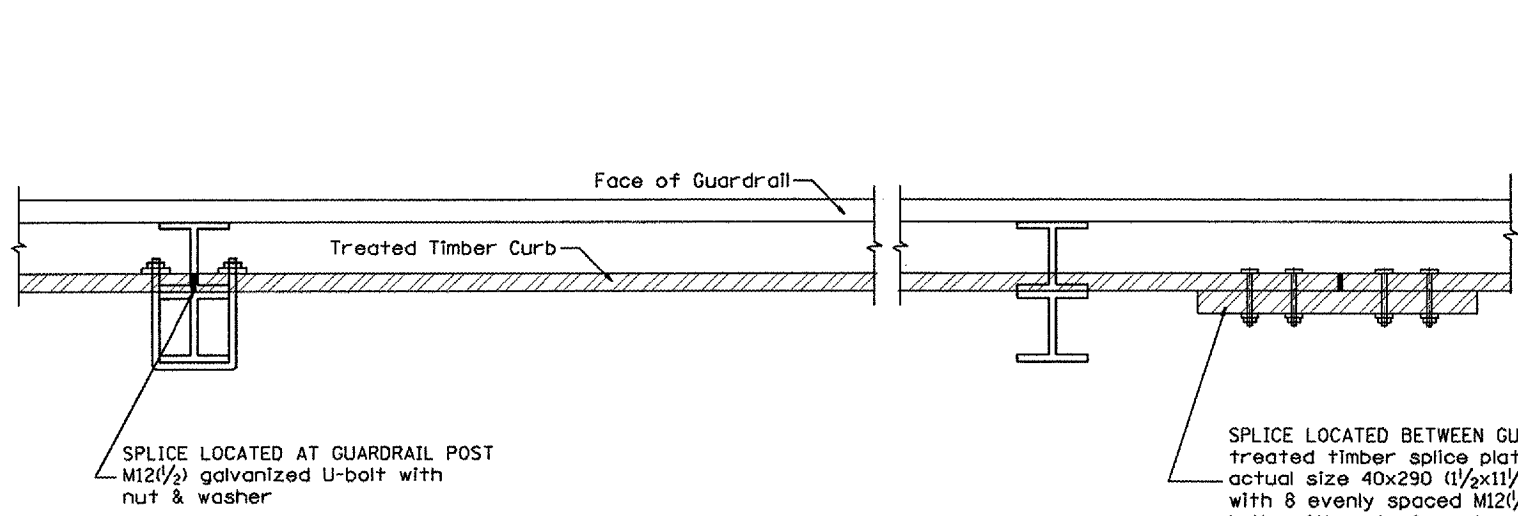
GUARDRAIL EROSION CONTROL TREATMENTS

DATE	REVISIONS	BY
1-1-97	RENUM. C-22.01, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-3-00	CORRECTION TO NOTES	M.A.

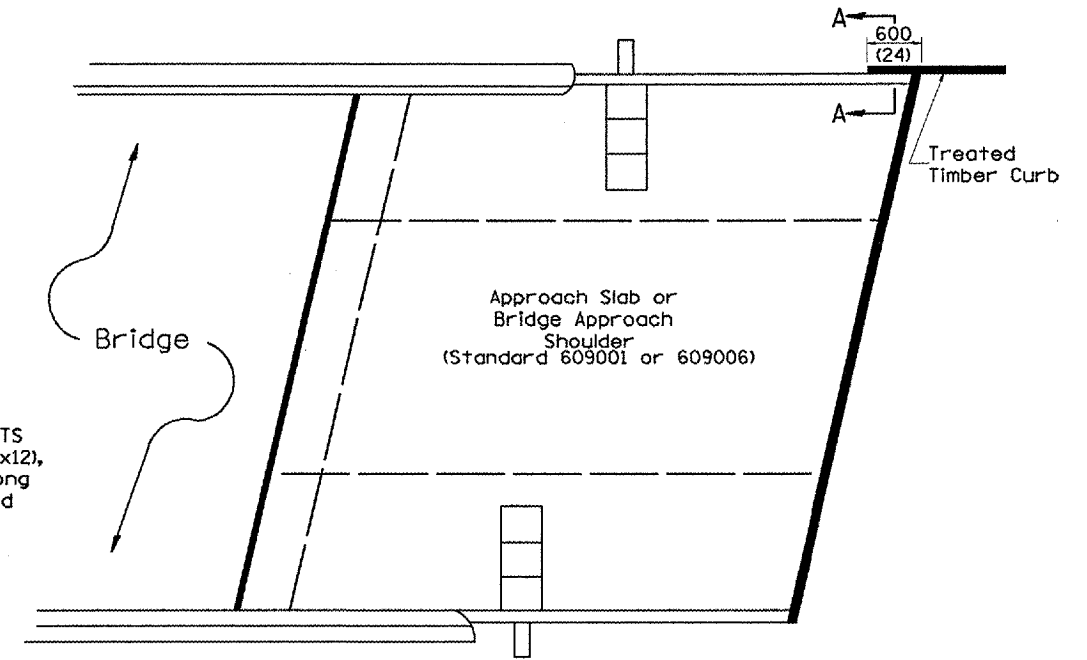
CADD STD NO. 630101-D4(1)
SCALE: NOT DRAWN TO SCALE

SHEET 1 OF 2
DRAWN BY CADD
CHECKED BY

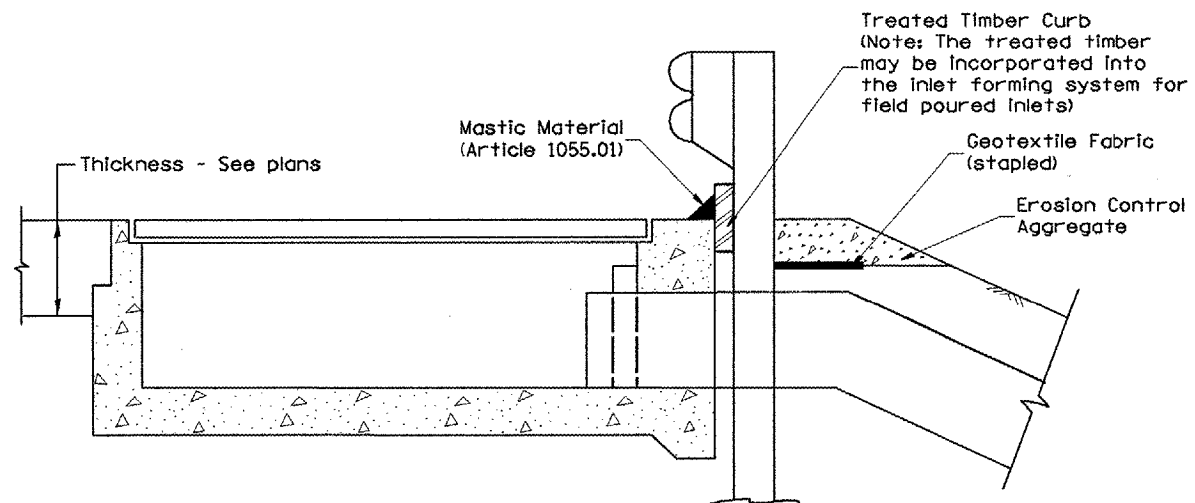
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



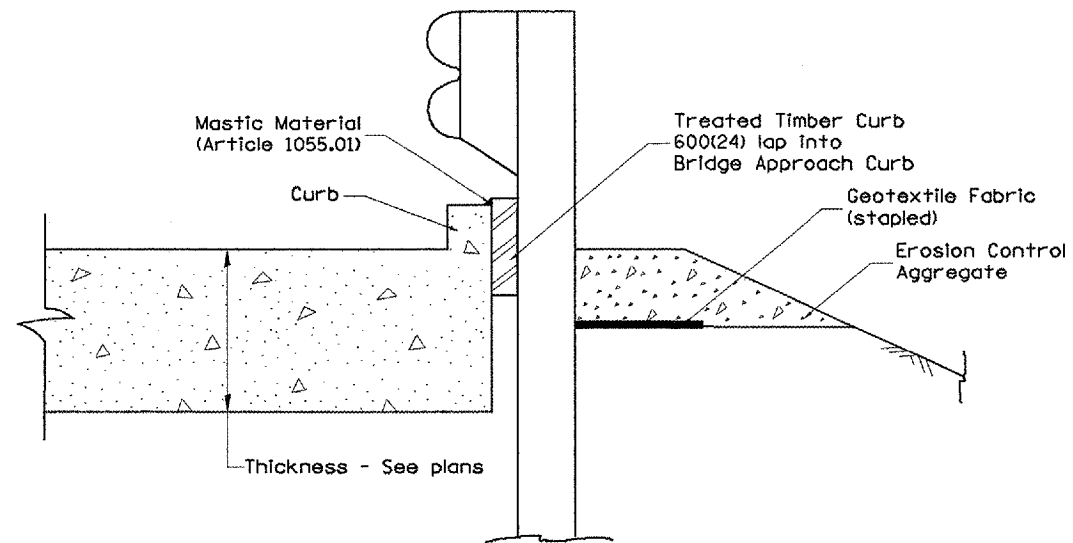
DETAIL A
(Typical Treated Timber Splices)



PLAN VIEW
APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)



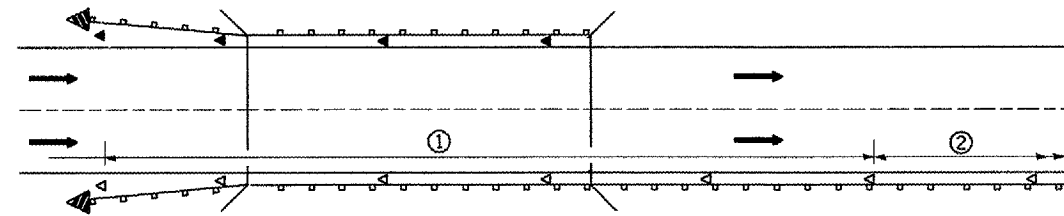
SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

All dimensions are in millimeters (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

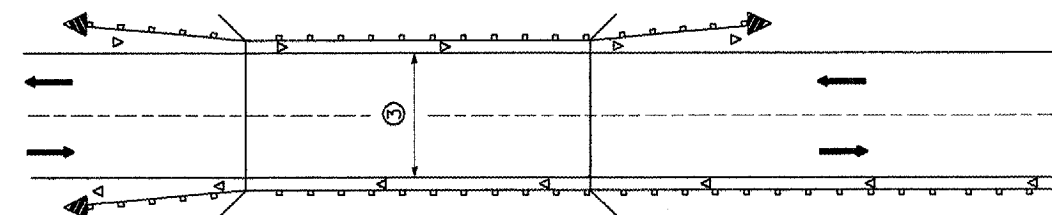
\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	98	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- ① Spacing 24 m (80 ft.) max. for first 122 m (400 ft.) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 122 m (400 ft.), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



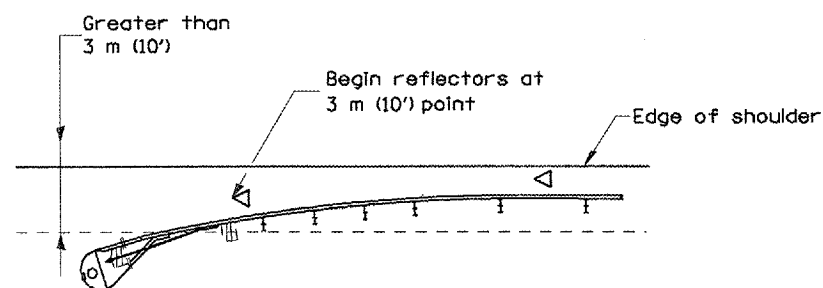
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 610 (24) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

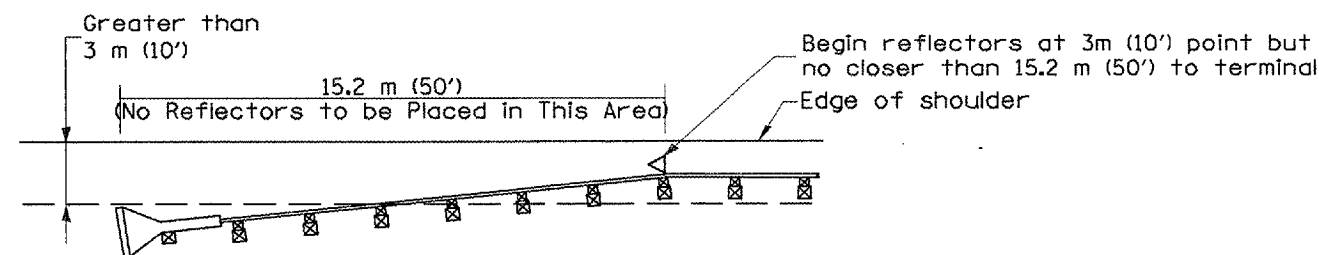
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▴ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 3 m (10') from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

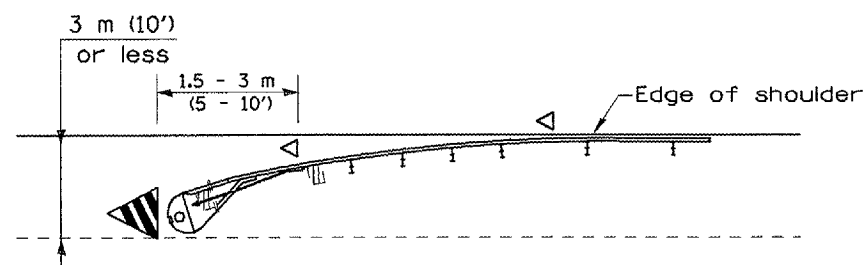
Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 3 m (10') from edge of shoulder]
*See Plans for Type



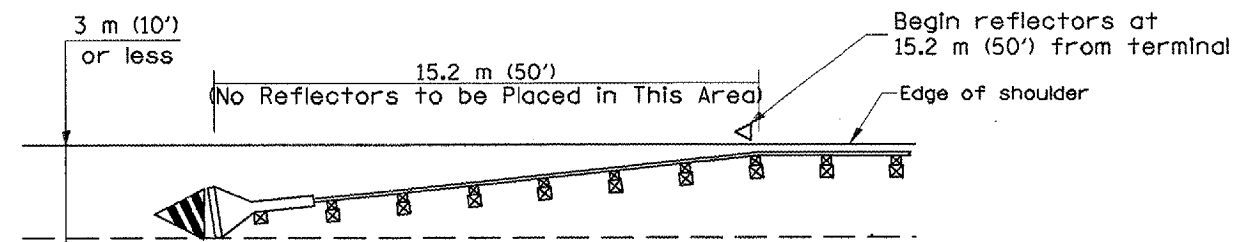
NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

Traffic Barrier Terminal Type 1 (Special)
[Terminal over 3 m (10') from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 3 m (10') or less from edge of shoulder]
*See Plans for Type



Traffic Barrier Terminal Type 1(Special)
[Terminal 3 m (10') or less from edge of shoulder]

All dimensions are in millimeters (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

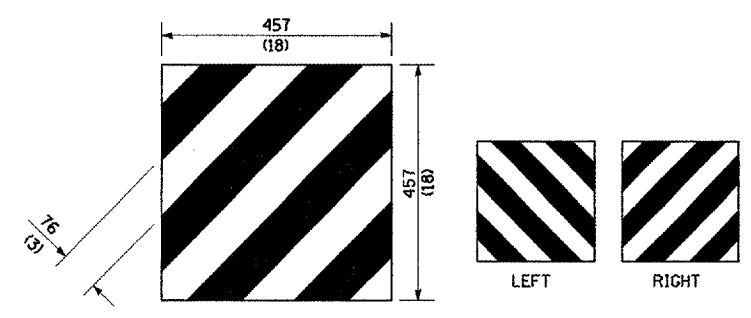
GUARDRAIL AND BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SHEET 1 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
CHECKED BY

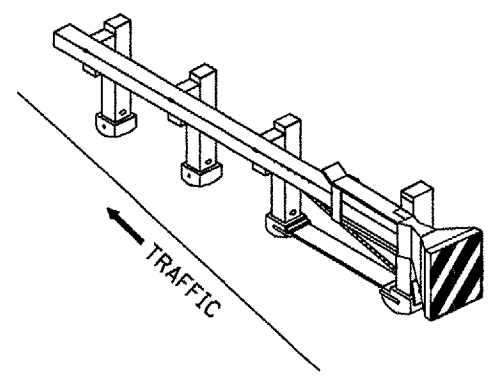
DATE	REVISIONS	BY
1-1-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. SPEC. *	J.A.

TERMINAL MARKER PLACEMENT

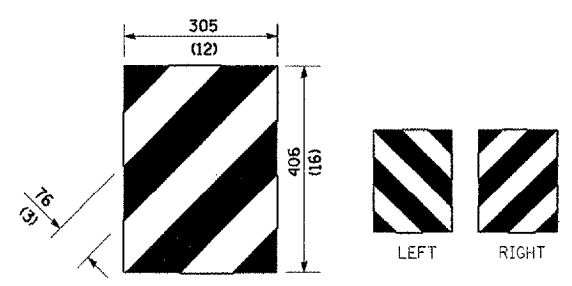
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



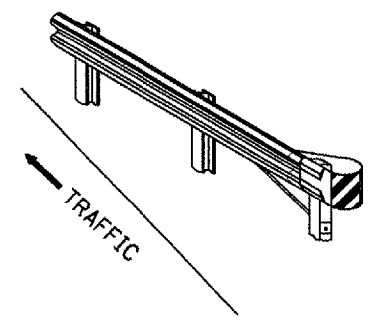
For Traffic Barrier Terminal Type 1 (Special)



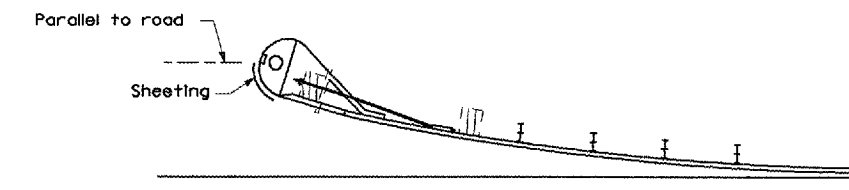
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
* See Plans for Type



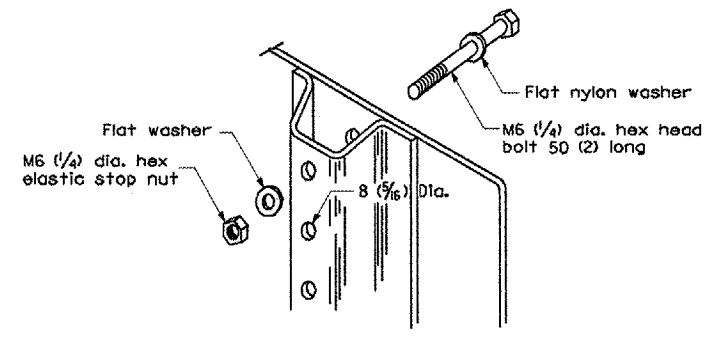
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
* See Plans for Type



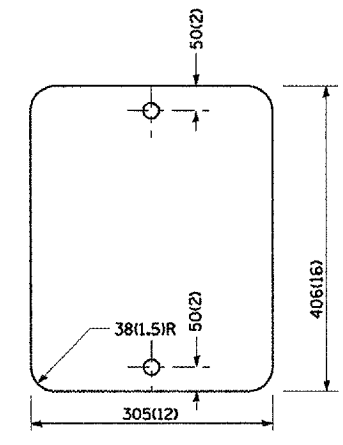
Sheeting Position for
Traffic Barrier Terminal Type (*)
* See Plans for Type

TERMINAL MARKER DETAILS

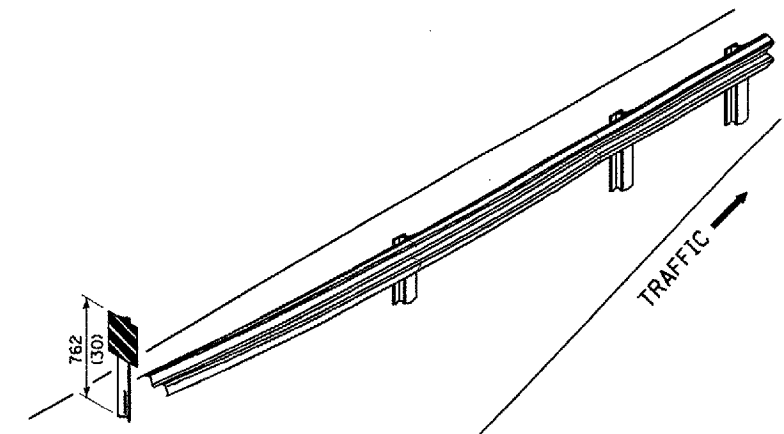
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

TERMINAL MARKER TREATMENTS

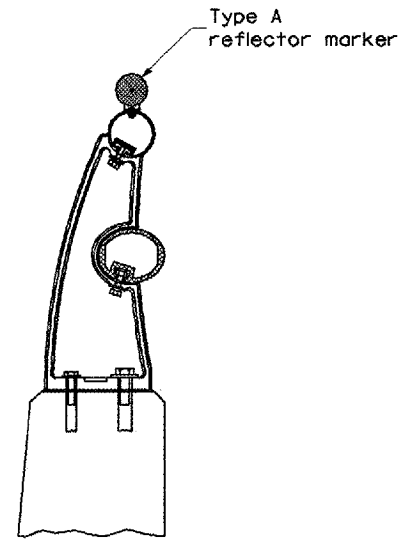
GENERAL NOTES

All dimensions are in millimeters (Inches) unless otherwise noted.

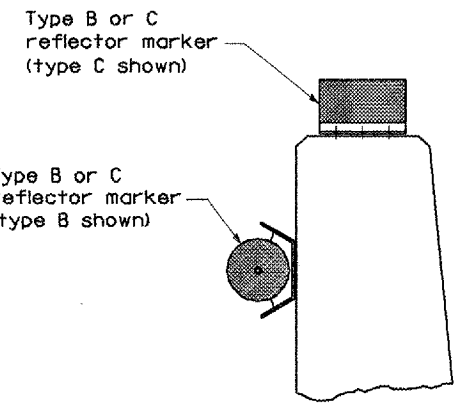
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL AND BARRIER WALL DELINEATION	
CADD STD. NO. 635101-04	SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-ABR	MCDONOUGH	58	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

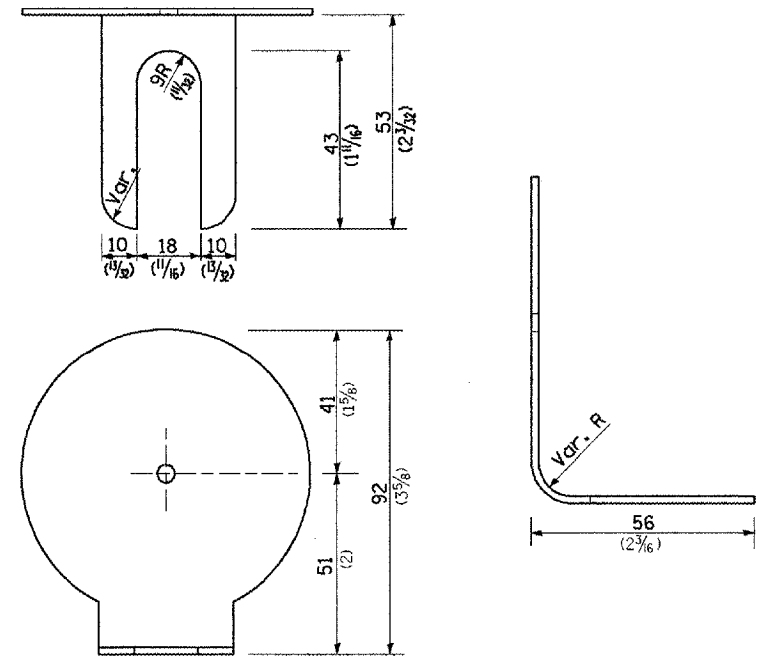


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



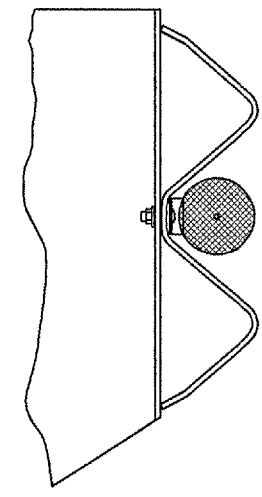
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING

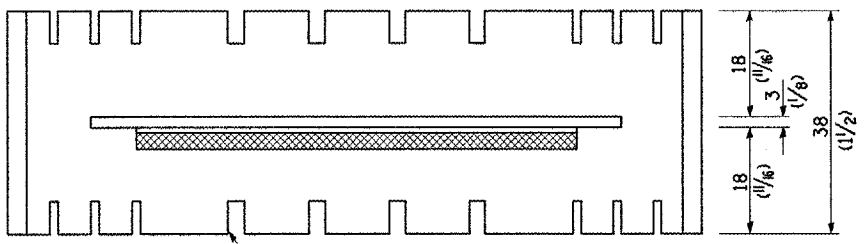


REFLECTOR MARKER TYPE A

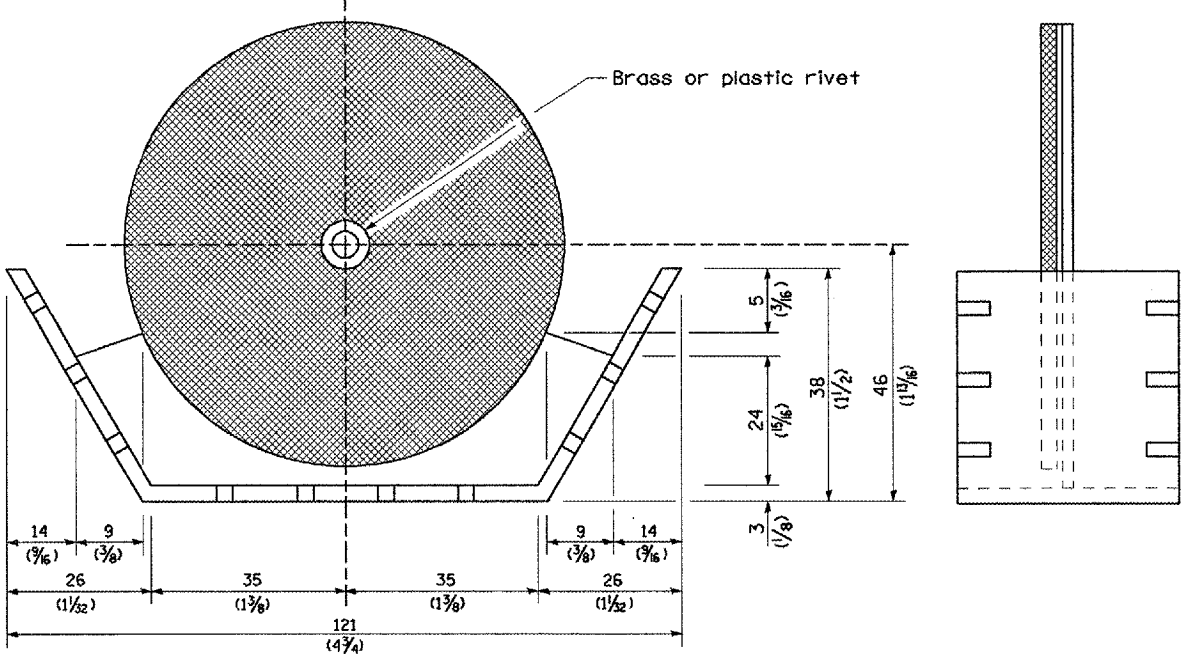
Min. reflective area 4,194 mm² (6 1/2 Sq. in.) each side. May be rectangular or slight trapezoid.



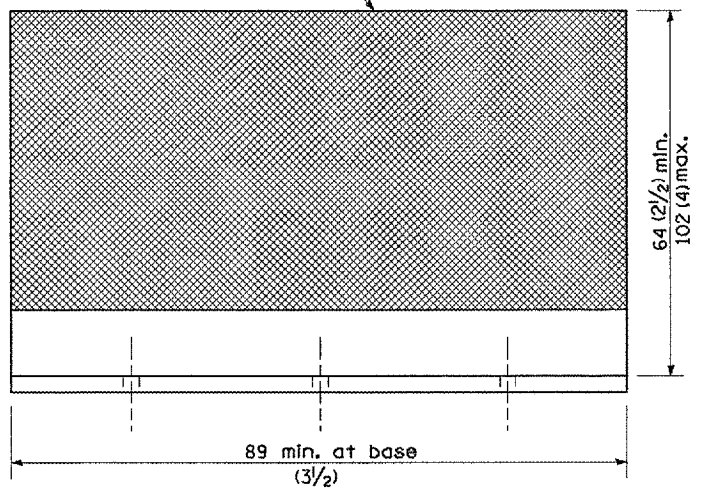
TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Adhesive weep slots or holes equally spaced on both sides



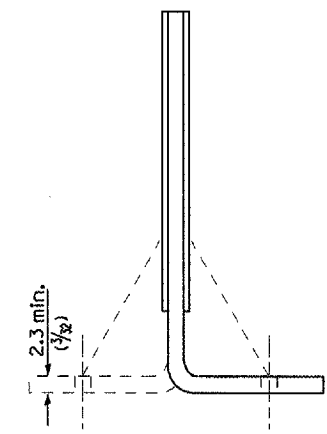
REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE C

3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 4,516 mm² (7.0 Sq. in.)



Cross section may be "T" or "L" shaped and may have side supports at ends.

REFLECTORS

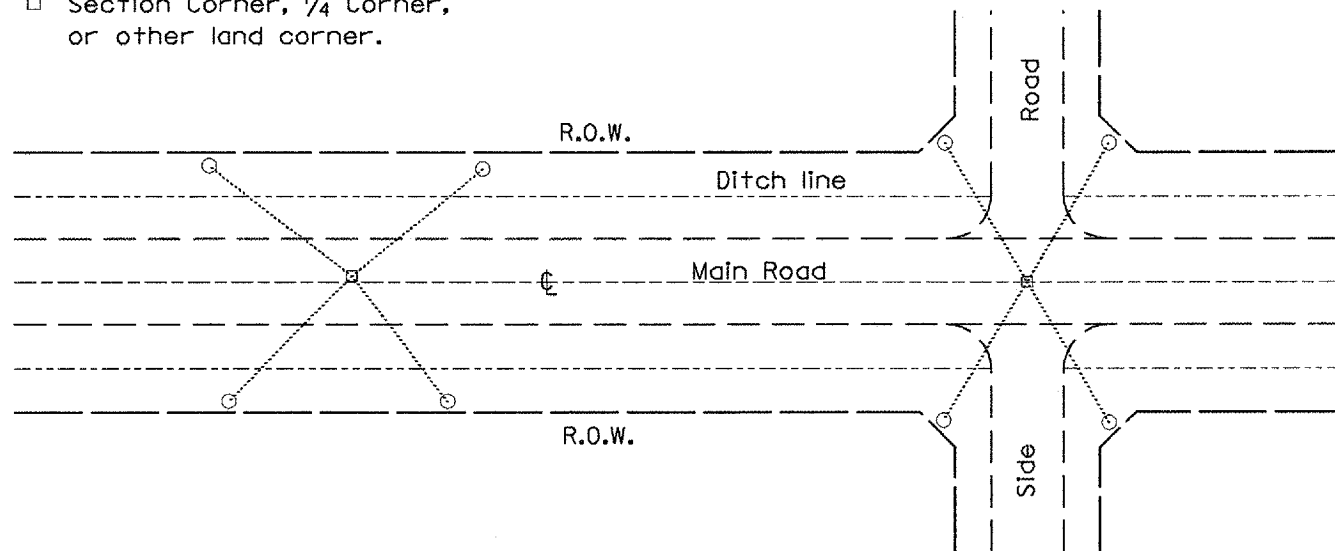
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL AND BARRIER WALL DELINEATION	
CADD STD. NO. 635101-D4	SHEET 3 OF 3
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	41-A/R	McDONOUGH	58	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PERMANENT SURVEY TIES

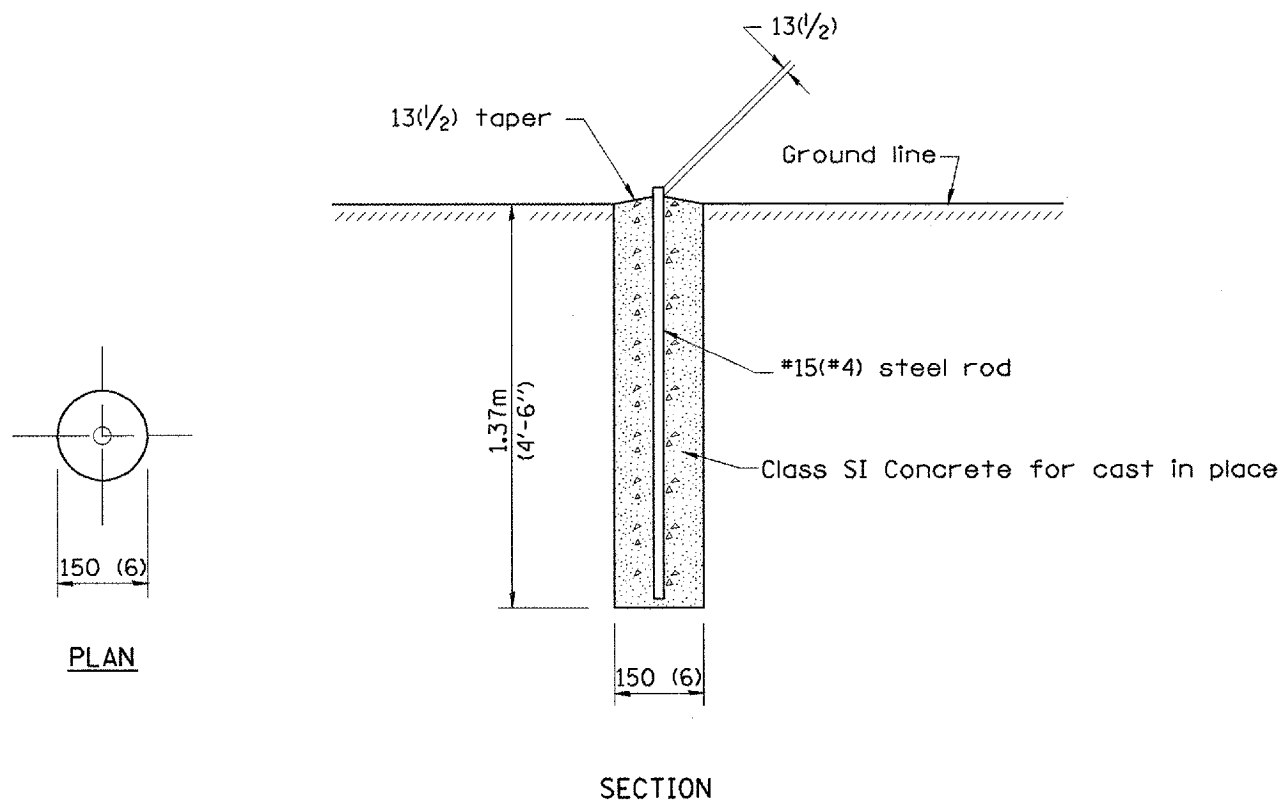
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



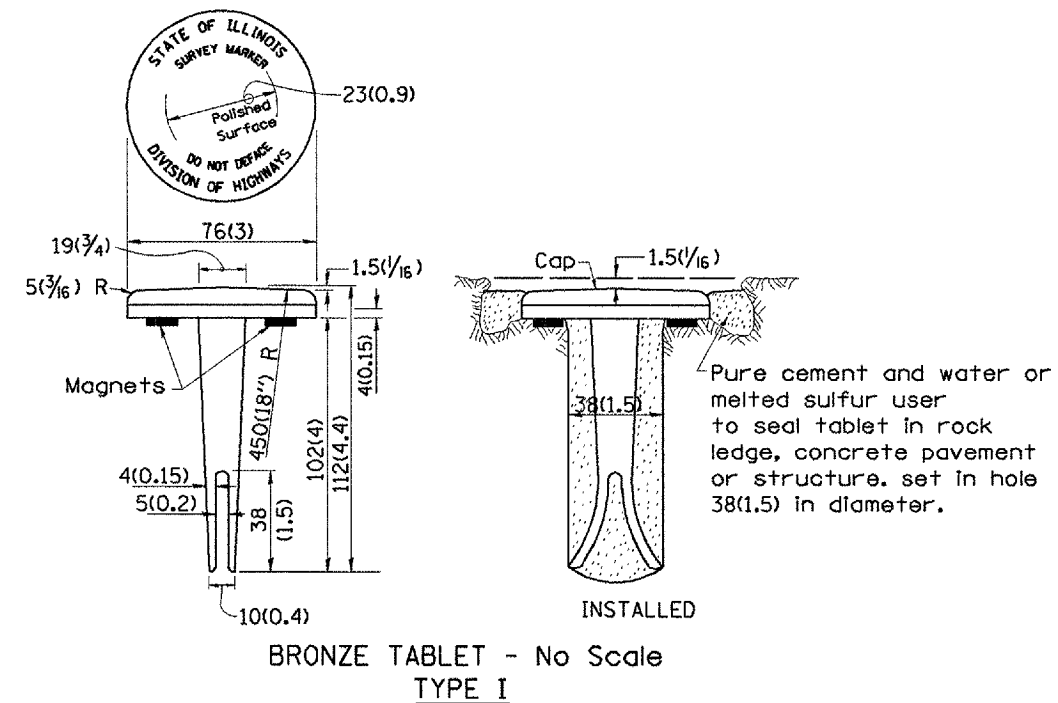
TYPICAL APPLICATION

GENERAL NOTES

- The marker shall be cast in place of Class SI Concrete.
- Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
- The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



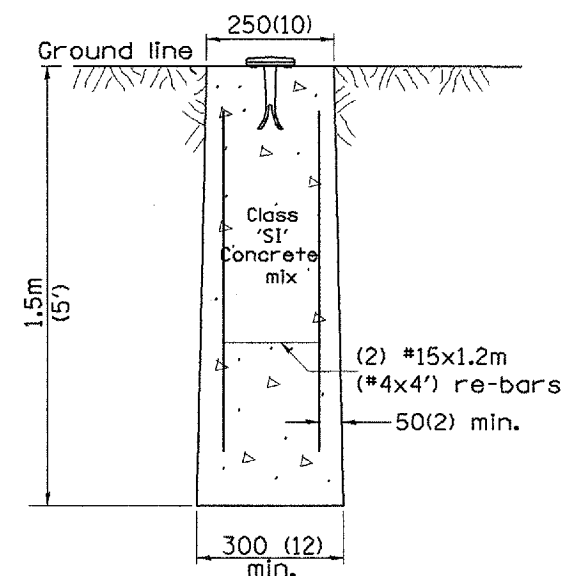
PERMANENT SURVEY MARKERS



BRONZE TABLET - No Scale
TYPE I

GENERAL NOTES

- All type II markers shall be cast in place, and precast markers will not be allowed.
- Two permanent magnets, each having a diameter of 19 (3/4) and a thickness of 6 (1/4), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
- The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 300m(1000').
- The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
- The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE
TYPE II

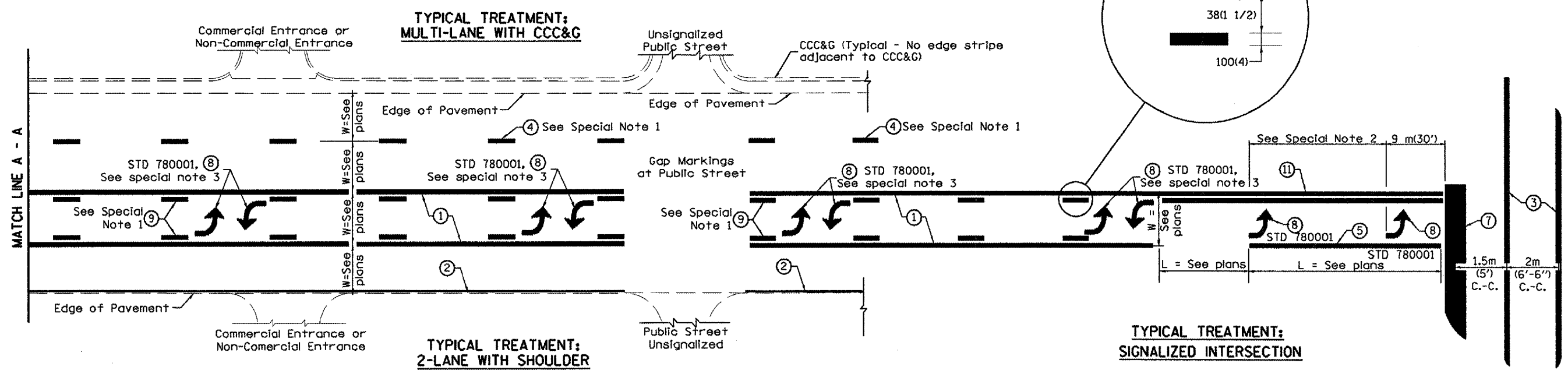
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I - TY.II	
CADD STD. NO. 667101-04	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01, NEW REVISION BOX	T.P.
7-7-98	ADD DESIGNER NOTE, REVISED TITLE BOX	J.A.
5-24-08	ADD DESIGNER NOTE	M.A.
	REMOVED GEN. NOTE UNDER TIES	

DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(41-A)BR	McDONOUGH	58	57
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 100(4) Solid (Yellow)
- ② 100(4) Solid (White)
- ③ 2-150(6) Crosswalk @ 2m (6'-6") min C.-C. (White)
2-200(8) Crosswalk @ 2m (6'-6") min C.-C. (White) (When traffic signals are present.)
- ④ 150(6) Skip-Dash (White) (See Special Note 1)
- ⑤ 200(8) Solid (White)
- ⑥ 300(12) Diagonal (White) (Item 6 is shown on Std. 780001)
- ⑦ 600(24) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 100(4) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 300(12) Diagonal (Yellow) (See Table A)
- ⑪ 100(4) Double Solid (Yellow)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 24 m (80').
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 61 m (200').
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 10 m (33').

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

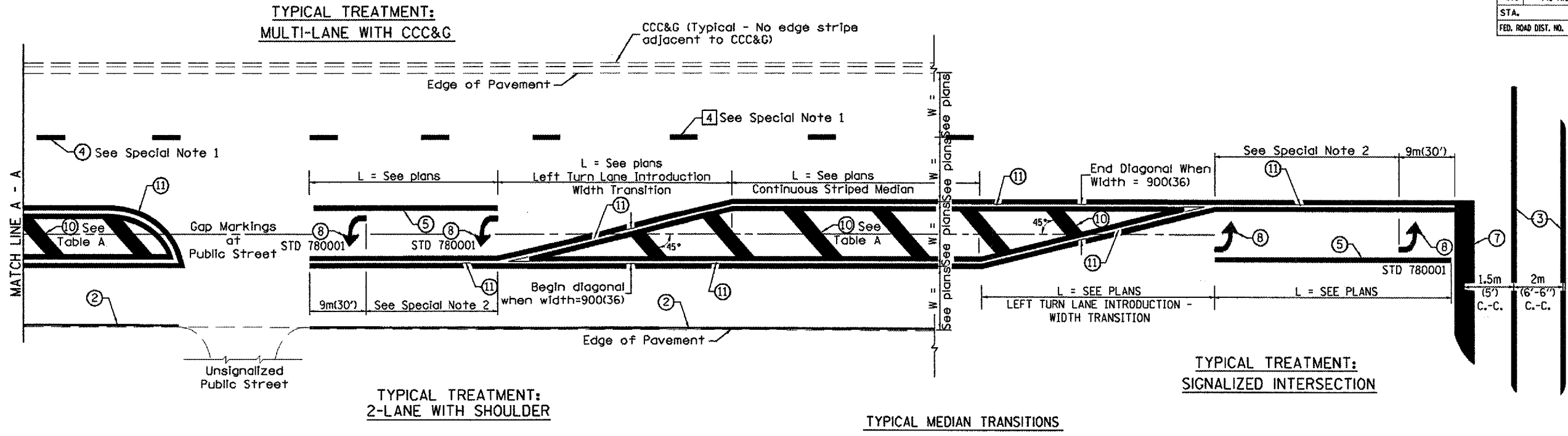
All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. F-8.03, NEW REVISION BOX	T.P.
2-7-97	ADD BI DIRECTIONAL DIMENSION	J.A.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.
8-02	ADD CROSSWALK DIMNS. WITH T.S.	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPICAL PAVEMENT MARKINGS
 CADD STANDARD 780001-D4 SHEET 1 OF 2
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

\$\$\$DATE\$\$\$

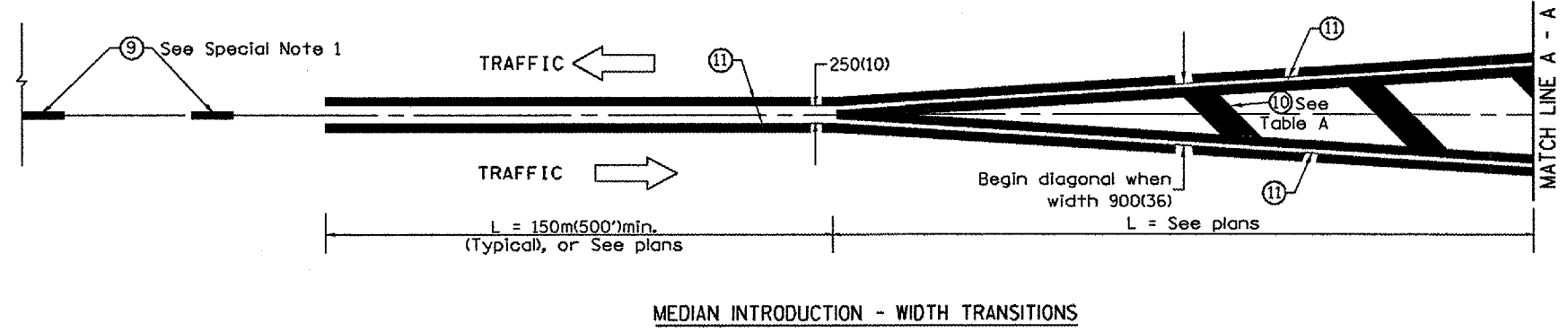
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	141-A)BR	McDONOUGH	58	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 50 km/h (30 mph)	15m (50')	5m (15')
50 - 70 km/h (30 - 45 mph)	23m (75')	6m (20')
Over 70 km/h (45 mph)	46m (150')	9m (30')



All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPICAL PAVEMENT MARKINGS
 CADD STANDARD 780001-D4 SHEET 2 OF 2
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

\$\$\$DATE\$\$\$

DGN-ONLY