

68504

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37+1	1

* D4 CULVERT EXT/REPAIR 2007 = 38 total sheets

INDEX OF SHEETS

1. COVER SHEET
2. COMMITMENT & GENERAL NOTES
3. GENERAL NOTES & STATUS OF UTILITIES
- 4,5. SUMMARY OF QUANTITIES
6. TYPICAL SECTIONS
- 7-10. SCHEDULE OF QUANTITIES
11. EXISTING & REMOVAL PLANS
- 12,13. PROPOSED PLANS & DITCH PROFILE PLANS
14. EROSION CONTROL PLANS
15. DROP STRUCTURE DETAIL
- 16-26. CADD STANDARDS:

205001-D4	510001-D4	630101-D4
280101-D4	542011-D4	635101-D4
281001-D4	604301-D4	

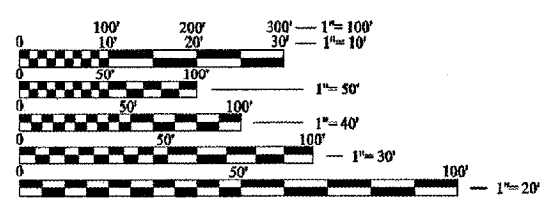
- 26A TRAFFIC BARRIER TERMINAL, TYPE 2
27-37 CROSS SECTIONS

LIST OF STANDARDS:

280001-03	630001-07	635011-01	701201-02
542301-01	630301-04	666001	701301-02
602401-01	631011-03	701001-01	702001-06
602701-01	635006-02	701006-02	

ADT = 1,500
MU = 1.3%
SU = 5.2%

SCALES

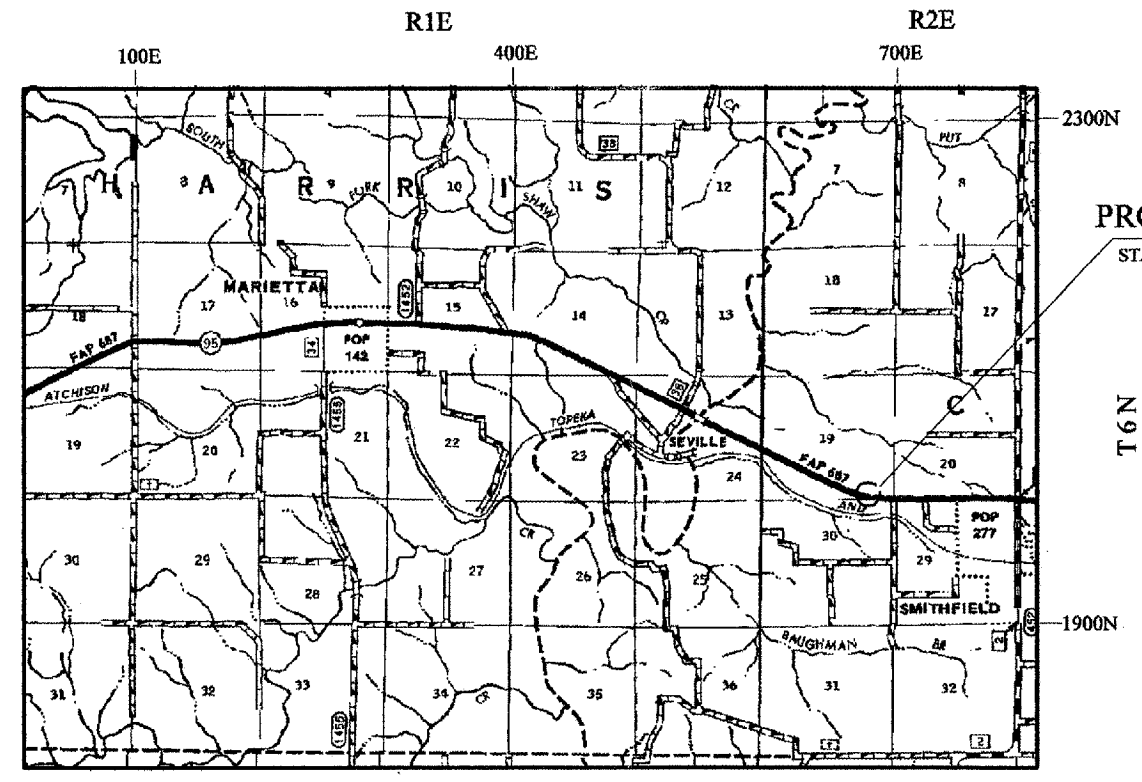


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 68504
CATALOG NO. 032839-02D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**
F.A.P. ROUTE 687 (IL. ROUTE 95)
D4 CULV EXT/REPAIR 2007
FULTON COUNTY
C-94-112-05



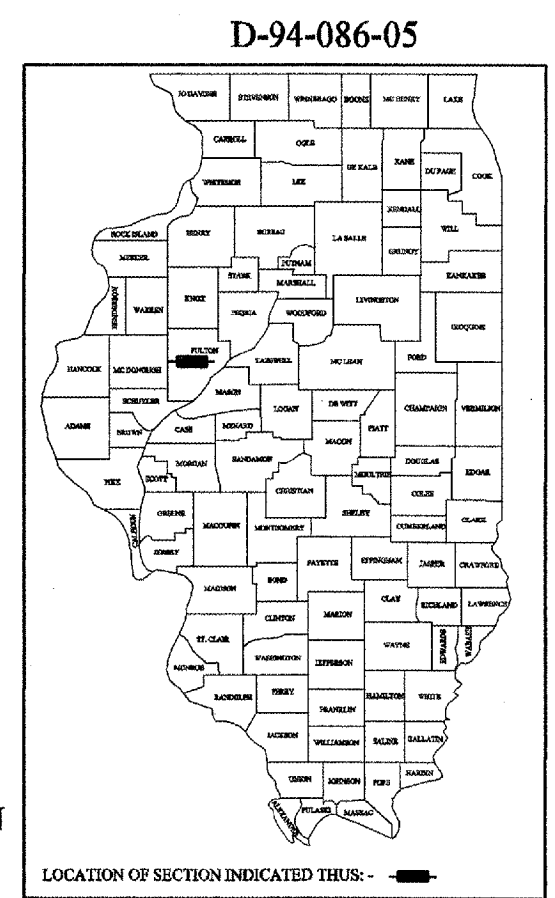
PROJECT LOCATION
STA. 588+59.09 TO STA. 593+10



GROSS LENGTH OF SECTION = 418.84 FEET = 0.08 Mile
NET LENGTH OF SECTION = 418.84 FEET = 0.08 Mile

N.P.D.E.S.
REQUIRED

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



DESCRIPTION:
This improvement consist of the extention of a cross road culvert, slope repair, installation of guardrail and others related works.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED MARCH 23, 2007
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 11, 2007
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
May 11, 2007
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: M. ADDIS 309-671-3454
DESIGNER: LEONEL CRESPO 309-671-3459

F.A.P. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/REPAIR 2007

GENERAL NOTES

STATIONING

The stations stamped in the pavement at the project locations are different from the one shown on the plans. The pavement station of the culvert is listed in the following table.

Pavement Stamped Sta.	Plans Sta.
601+00	591+55.66

STATUS OF UTILITIES

SPOON RIVER ELECTRIC

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location	96' Rt.	591+00 to 591+50	Aerial Electric	Clearance	Caution

MID-CENTURY

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location	73' Rt.	590+50 to 592+50	Buried Telephone	Ditch Cut / Culvert	Relocated
Location	42' Rt. to 80' Rt.	589+90 to 592+50	Buried Telephone	Ditch Cut / Culvert	Relocated

McLeod USA

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location	26' Lt.	590+00 to 590+50	Buried Fiber Optic	Riprap / Ditch Cut	Relocated
Location	26' Rt.	590+50 to 593+00	Buried Fiber Optic	Benching / Guardrail	Caution

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**GENERAL NOTES
 &
 STATUS OF UTILITIES**
 SCALE: VERT. _____
 DATE _____ HORIZ. _____
 DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULVERT EXT/ REPAIR 2007				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	100% STATE Y007 Fulton Co.
20100500	TREE REMOVAL, ACRES	ACRE	0.77	0.77
20200100	EARTH EXCAVATION	CU YD	2,928	2,928
20400800	FURNISHED EXCAVATION	CU YD	1,157	1,157
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,973	3,973
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90
* 25001700	SEEDING, CLASS 3 (MODIFIED)	ACRE	1.00	1.00
* 25100115	MULCH, METHOD 2	ACRE	0.50	0.50
* 25101005	HEAVY DUTY EXCELSIOR BLANKET	SQ YD	3,147	3,147
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300
28000300	TEMPORARY DITCH CHECKS	EACH	16	16
28000400	PERIMETER EROSION BARRIER	FOOT	97	97
28000500	INLET AND PIPE PROTECTION	EACH	2	2

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	100% STATE Y007 Fulton Co.
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,071	1,071
28100125	STONE RIPRAP, CLASS B3	SQ YD	58	58
28102630	STONE RIPRAP DITCH CHECKS	EACH	13	13
28200200	FILTER FABRIC	SQ YD	1,071	1,071
48101200	AGGREGATE SHOULDERS TYPE B	TON	20	20
50102400	CONCRETE REMOVAL	CU YD	2.7	2.7
50800105	REINFORCEMENT BARS	POUND	217	217
50901760	PIPE HANDRAIL	FOOT	16	16
54002020	EXPANSION BOLTS 3/4 INCH	EACH	8	8
54202965	PIPE CULVERTS, TYPE 4 RCCP 30"	FOOT	82	82
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1
54248510	CONCRETE COLLAR	CU YD	1	1
54390200	INSERTION CULVERT LINER 28"	FOOT	159	159
60222250	MANHOLES, TYPE A, 5'- DIAMETER, TYPE 37 GRATE	EACH	1	1
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	500	500

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	5

* D4 CULVERT EXT/ REPAIR 2007

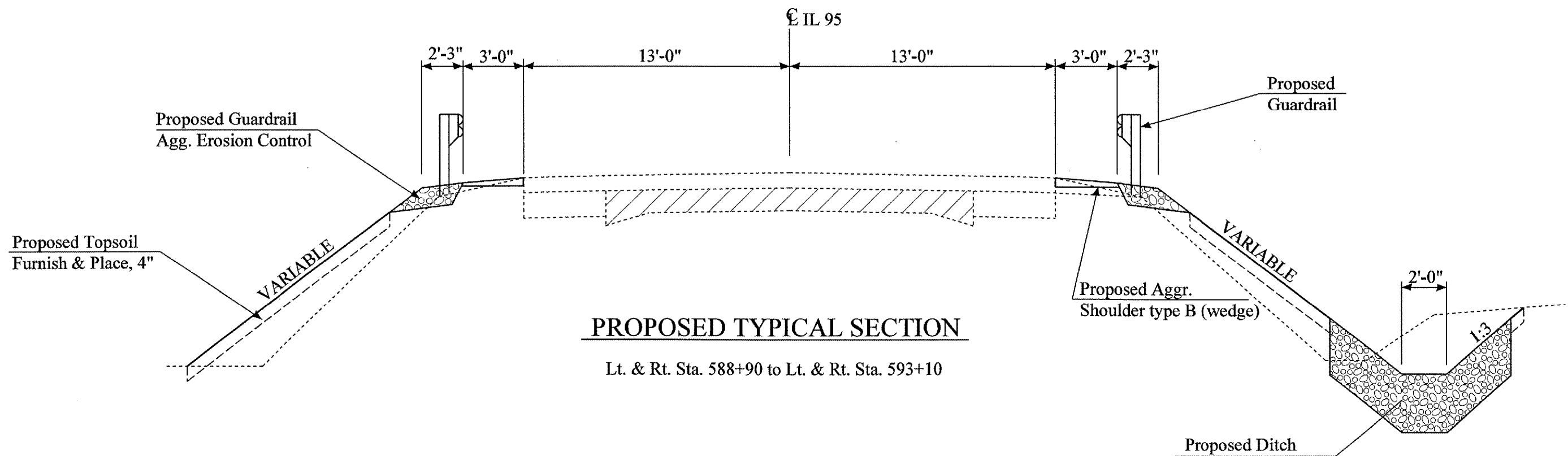
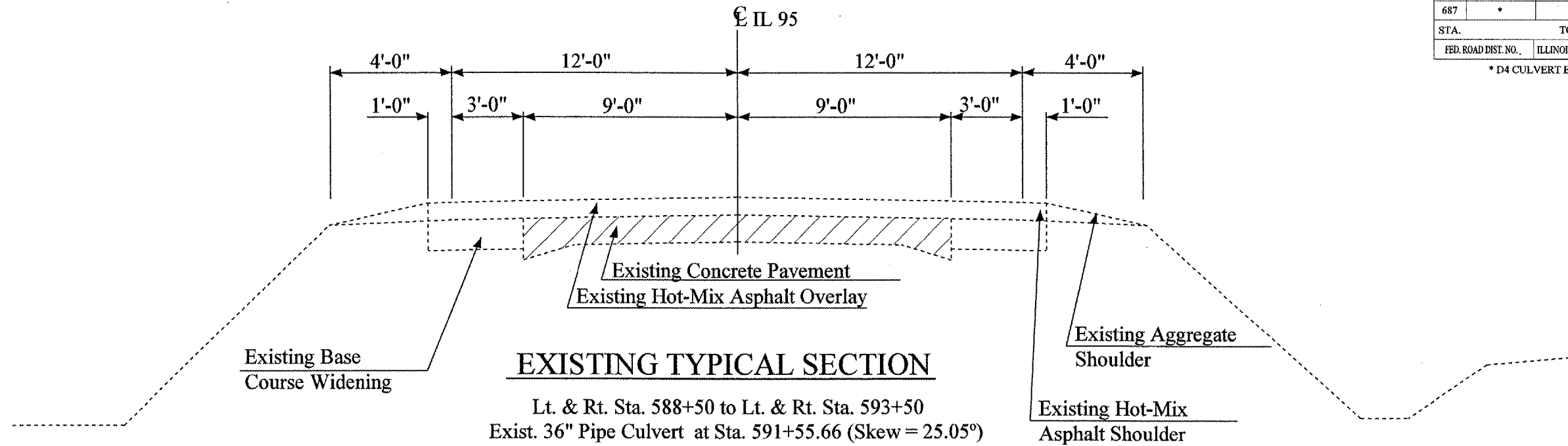
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	100% STATE Y007 Fulton Co.
* 6310045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)	EACH	1	1
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	341	341
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L. SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L.SUM	1	1
78200410	GUARDRAIL MARKER TYPE A	EACH	10	10
78201000	TERMINAR MARKER - DIRECT APPLIED	EACH	3	3

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	100% STATE Y007 Fulton Co.
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	94	94
X0325155	REMOVE ABANDONED GAS MAIN	FOOT	250	250
XX002909	CLASS SI CONCRETE	CU YD	2.0	2.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0014700	CULVERT TO BE CLEANED	EACH	2	2

* SPECIALTY ITEM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/ REPAIR 2007



SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* D4 CULVERT EXT/ REPAIR 2007				

CODE NO. 20100500

TREE REMOVAL, ACRES	
LOCATION	ACRE
Lt Sta. 590+00 to 593+06	0.60
Rt. Sta. 590+26 to 593+00	0.17
TOTAL = 0.77	

CODE NO.	20200100	20400800	21101615
	EARTH EXCAVATION	FURNISHED EXCAVATION	F & P TOPSOIL, 4"
	CU YD	CU YD	SQ YD
LOCATION			
STA. 588+50 TO 593+50	2,928	1,157	3,973
TOTAL	2,928	1,157	3,973

CODE NO.	28000250	25001700	25100115	25000400	25000500	25000600
	TEMPORARY EROSION CONTROL SEEDING *	SEEDING CLASS 3 (MODIFIED)	MULCH METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
	POUND	ACRE	ACRE	POUND	POUND	POUND
LOCATION						
Sta. 588+90.81 to Sta. 593+08.82	300	1.00	.50	90	90	90
TOTAL =	300	1.00	.50	90	90	90

* 3 Applications

CODE NO. 25101005

HEAVY DUTY EXCELSIOR BLANKET	
LOCATION	SQ YD
Rt. Sta. 590+29.27 to Sta. 593+08.82	1,666.52
Lt. Sta. 590+50 to Sta. 592+72.98	1,480.30
TOTAL = 3,147	

CODE NO. 28000300

TEMPORARY DITCH CHECK	
LOCATION	UNIT EACH
Rt. Sta. 589+50 to Sta. 592+43	7
Lt. Sta. 590+50 to Sta. 592+69	9
TOTAL = 16	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/ REPAIR 2007

SCHEDULE OF QUANTITIES

CODE NO.28000400

PERIMETER EROSION BARRIER	
LOCATION	UNIT FOOT
Lt. Sta. 591+72.71 to Sta. 592+26.83	80
Lt. Sta. 591+89.23 to Sta. 592+05.38	17
TOTAL = 97	

CODE NO.28100107

STONE RIPRAP, CLASS A4	
LOCATION	UNIT SQ YD
Rt. Sta. 589+26 to Sta. 591+13	284.4
Rt. Sta. 591+13 to Sta. 591+23	25.6
Rt. Sta. 591+23 to Sta. 592+57	219.6
Lt. Sta. 589+99 to Sta. 591+92	315.3
Lt. Sta. 591+92 to Sta. 592+02	17.1
Lt. Sta. 592+02 to Sta. 592+78	208.2
TOTAL = 1,071	

CODE NO.28200200

FILTER FABRIC	
LOCATION	UNIT SQ YD
Rt. Sta. 589+26 to Sta. 591+13	284.4
Rt. Sta. 591+13 to Sta. 591+23	25.6
Rt. Sta. 591+23 to Sta. 592+57	219.6
Lt. Sta. 589+99 to Sta. 591+92	315.3
Lt. Sta. 591+92 to Sta. 592+02	17.1
Lt. Sta. 592+02 to Sta. 592+78	208.2
TOTAL = 1,071	

CODE NO.50901760

PIPE HANDRAIL	
LOCATION	UNIT FOOT
Rt STA. 591+17.6	16
TOTAL = 16	

CODE NO.28000500

INLET AND PIPE PROTECTION	
LOCATION	UNIT EACH
Rt. Sta. 591+17.91, 105.14'	1
Lt. Sta. 591+91.39, 77.12'	1
TOTAL = 2	

CODE NO.28100125

STONE RIPRAP, CLASS B3	
LOCATION	UNIT SQ YD
Lt. Sta. 591+88 to Sta. 592+46	58
TOTAL = 58	

CODE NO.28102630

STONE RIPRAP DITCH CHECKS	
LOCATION	UNIT EACH
Rt. Sta. 590+00to Sta. 592+00	5
Lt. Sta. 591+00 to Sta. 592+69	8
TOTAL = 13	

CODE NO.54002020

EXPANSION BOLTS 3/4 INCH	
LOCATION	UNIT EACH
Lt STA. 591+23.53	8
TOTAL = 8	

CODE NO.48101200

AGGREGATE SHOULDERS, TYPE B, (WEDGE)	
LOCATION	UNIT TON
Lt. Sta. 589+77.50 to Sta. 592+92.74	9
Rt. Sta. 588+90.81 to Sta. 593+08.84	11
TOTAL = 20	

CODE NO.54390200

INSERTION CULVERT LINER 28"	
LOCATION	UNIT FOOT
STA. 591+55.66	159
TOTAL = 159	

CODE NO.50800105

REINFORCEMENT BARS	
LOCATION	UNIT POUND
Rt. Sta. 591+23.5	21.5
Rt. Sta. 591+17.6	195.2
TOTAL = 216.7	

CODE NO.	50102400	54202965	54213675	54248510	60222250
	CONCRETE REMOVAL	PIPE CULVERTS TYPE 4 RCCP 30"	PRECAST REINF. CONC. FLARED END SECTION 30"	CONCRETE COLLAR	MANHOLES TYPE A, 5'-DIAMETER, TYPE 37 GRATE
	CU YD	FOOT	EACH	CU YD	EACH
LOCATION					
Rt. Sta. 591+23.5		46.7		1.0	
Lt. Sta. 591+91.50	2.7	35.3	1		1
TOTAL =	2.7	82	1	1.0	1

CODE NO.63000000

STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION	UNIT FOOT
Lt. Sta. 590+62.5 to Sta. 592+95	237.5
Rt. Sta. 589+75 to Sta. 592+37.5	262.5
TOTAL = 500.00	

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* D4 CULVERT EXT/ REPAIR 2007

CODE NO.63100045

TRAFFIC BARRIER TERMINAL, TYPE 2	
LOCATION	UNIT EACH
Lt. Sta. 592+95 to Sta. 593+01	1
TOTAL = 1	

CODE NO.63100167

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	
LOCATION	UNIT EACH
Lt. Sta. 590+12.5 to Sta. 590+62.5	1
Rt. Sta. 589+25 to Sta. 589+75	1
TOTAL = 2	

CODE NO.63100169

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	
LOCATION	UNIT EACH
Rt. Sta. 592+37.5 to Sta. 592+87.5	1
TOTAL = 1	

CODE NO.66502300

WOVEN WIRE FENCE REMOVAL	
LOCATION	UNIT FOOT
Lt Sta. 590+00 to Sta. 593+06.71	307.32
Lt. Sta. 590+81.85 to Sta. 590+97.41	33.33
TOTAL = 340.65	

CODE NO.66600105

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION 1	UNIT EACH
Sta. 591+00, 86.25' Lt	1
Sta. 591+75, 160' Lt	1
Sta. 592+25, 160' Lt	1
Sta. 593+05.34, 110' Lt	1
Sta. 590+50, 87.46' Rt	1
Sta. 591+00, 120' Rt	1
Sta. 591+50, 120' Rt	1
Sta. 592+00, 100.93' Rt	1
TOTAL = 8	

CODE NO.67000400

ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	UNIT CAL MO
JOBSITE	2
TOTAL = 2	

CODE NO.67100100

MOBILIZATION	
LOCATION	UNIT L SUM
JOBSITE	1
TOTAL = 1	

CODE NO.70100450

TRAFFIC CONTROL AND PROTECTION STANDARD 701201	
LOCATION	UNIT L.SUM
Sta. 588+60 to Sta. 593+50	1
TOTAL = 1.0	

CODE NO.78200410

GUARDRAIL MARKER TYPE A	
LOCATION	UNIT EACH
Rt. Sta. 589+25 to Sta. 592+87.5	4
Lt. Sta. 590+12.5 to Sta. 593+01	6
TOTAL = 10	

CODE NO.78201000

TERMINAR MARKER - DIRECT APPLIED	
LOCATION	UNIT EACH
Rt. Sta. 589+25	1
Lt. Sta. 590+12.5	1
Rt. Sta. 592+87.5	1
TOTAL = 3	

CODE NO.X0301512

GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION	UNIT TON
Rt. Sta. 588+90.81 to Sta. 593+08.83	53.2
Lt. Sta. 589+77.48 to Sta. 593+09.57	40.4
TOTAL = 93.6	

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* D4 CULVERT EXT/ REPAIR 2007

CODE NO. X0325155

REMOVE ABANDONED GAS MAIN	
LOCATION	UNIT FOOT
Lt. Sta. 591+27.6 to 592+46.5	119
Lt. Sta. 591+17.2 to 592+48.3	131
TOTAL = 250	

CODE NO. XX002909

CLASS SI CONCRETE	
LOCATION	UNIT CU YD
Rt. Sta. 591+17.6	2.0
TOTAL = 2.0	

CODE NO. Z0013798

CONSTRUCTION LAYOUT	
LOCATION	UNIT L SUM
Sta. 588+60 to Sta. 593+50	1
TOTAL = 1	

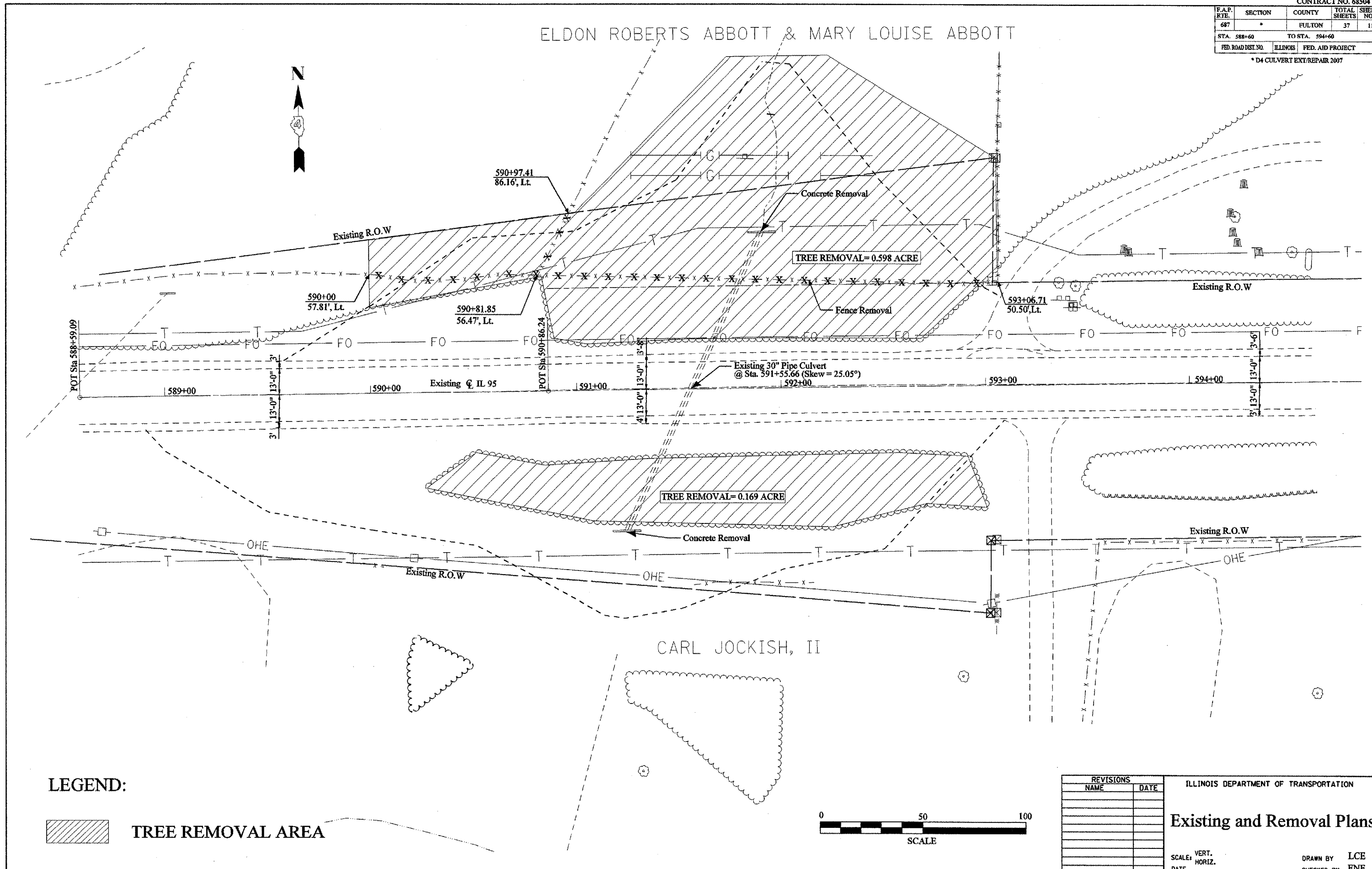
CODE NO. Z0014700

CULVERT TO BE CLEANED	
LOCATION	UNIT EACH
Rt. Sta. 591+24	1
Lt. Sta. 591+91	1
TOTAL = 2	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	11
STA. 588+60		TO STA. 594+60		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXI/REPAIR 2007

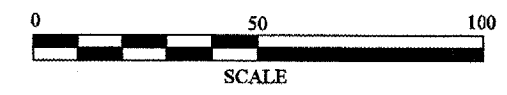
ELDON ROBERTS ABBOTT & MARY LOUISE ABBOTT



CARL JOCKISH, II

LEGEND:

 TREE REMOVAL AREA



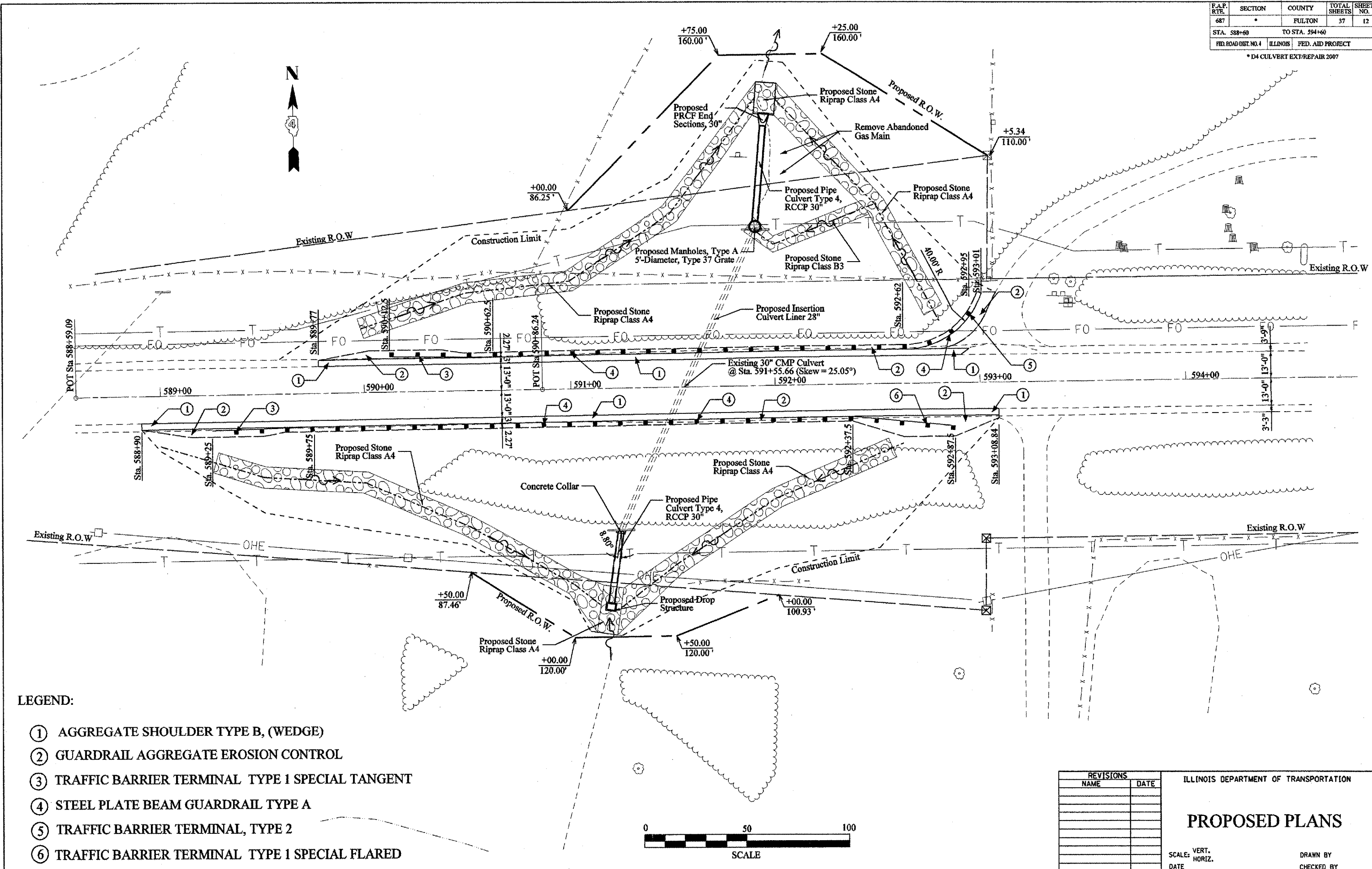
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
Existing and Removal Plans
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY LCE
 CHECKED BY ENE

PLOT DATE = 3/13/2007
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 PLOT SCALE = 42.4891 / IN.
 USER NAME = brockb

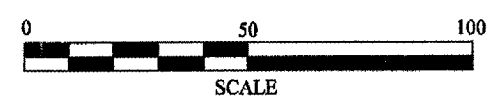
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	12
STA. 538+60		TO STA. 594+60		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

*D4 CULVERT EXT/REPAIR 2007



LEGEND:

- ① AGGREGATE SHOULDER TYPE B, (WEDGE)
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL TANGENT
- ④ STEEL PLATE BEAM GUARDRAIL TYPE A
- ⑤ TRAFFIC BARRIER TERMINAL, TYPE 2
- ⑥ TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL FLARED



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED PLANS

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 4/19/2007
 PLOT SCALE = 42.4874' / IN.
 USER NAME = arepold

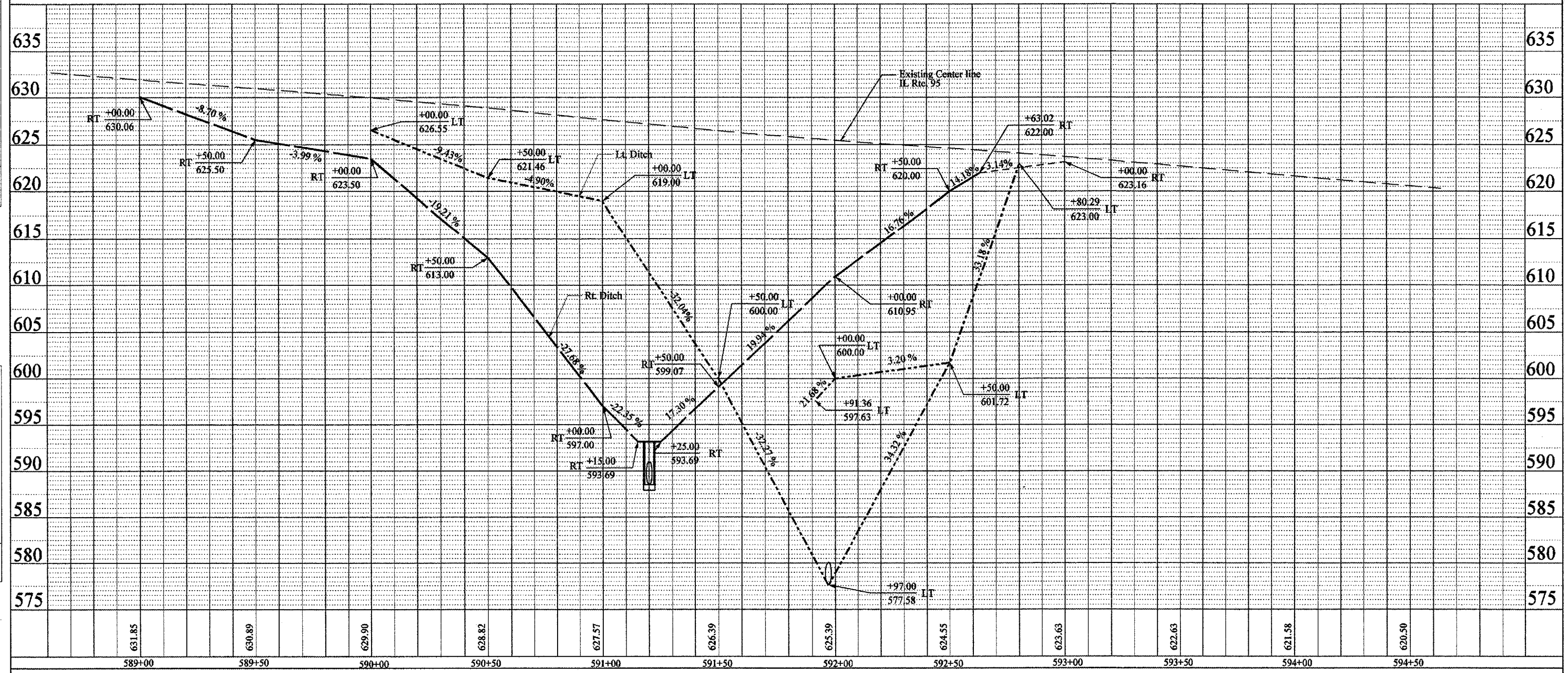
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	13
STA. 588+60		TO STA. 594+60		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

*D4 CULVERT EXT/REPAIR 2007

BY	DATE

BY	DATE

PROF. FILE	SWEEPED	CHECKED
NOTE BOOK	NO. NOTED	NO. CHECKED



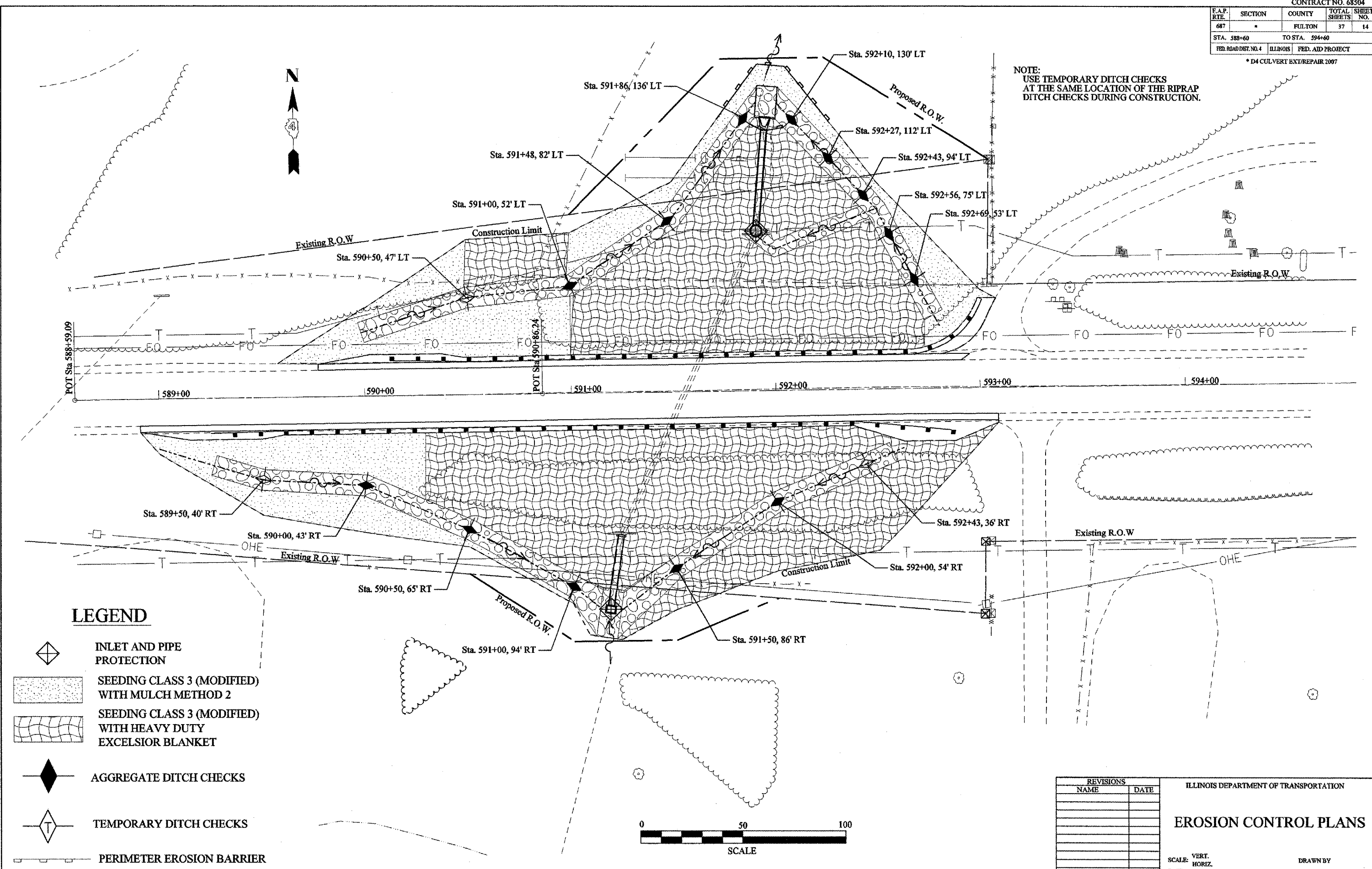
DITCH PROFILE

PLOT DATE: 3/12/07
 FILE NAME: c:\projects\68504\p013.dwg
 PLOT SCALE: 1"=40.00'
 USER NAME: [unclear]


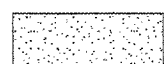



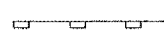
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687	*	FULTON	37	14
STA. 588+60		TO STA. 594+60		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 CULVERT EXT/REPAIR 2007

NOTE:
USE TEMPORARY DITCH CHECKS
AT THE SAME LOCATION OF THE RIPRAP
DITCH CHECKS DURING CONSTRUCTION.



LEGEND

-  INLET AND PIPE PROTECTION
-  SEEDING CLASS 3 (MODIFIED) WITH MULCH METHOD 2
-  SEEDING CLASS 3 (MODIFIED) WITH HEAVY DUTY EXCELSIOR BLANKET
-  AGGREGATE DITCH CHECKS
-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS

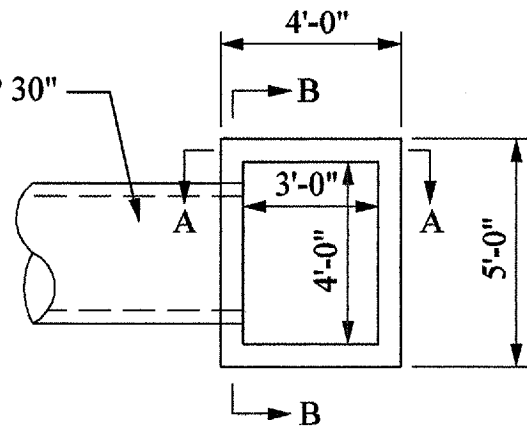
SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\68504\192007\eroston.dgn
 PLOT SCALE = 42.4873' / IN.
 USER NAME = crespala

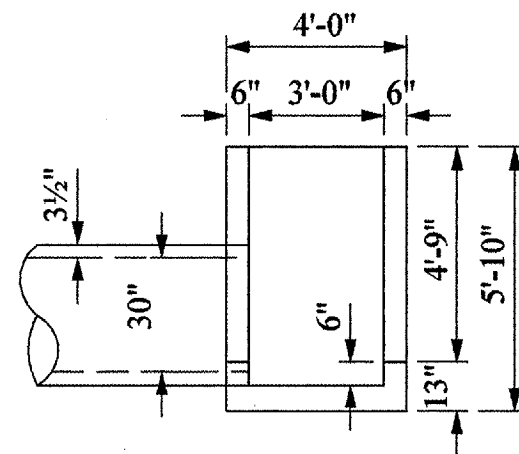
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Pipe Culvert Type 4, RCCP 30"



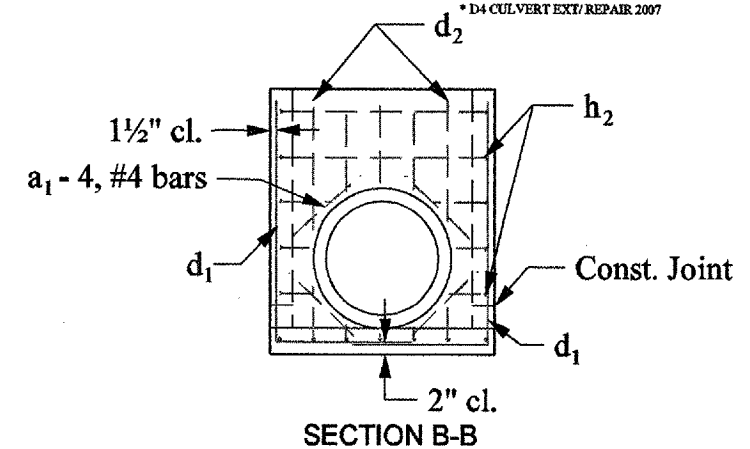
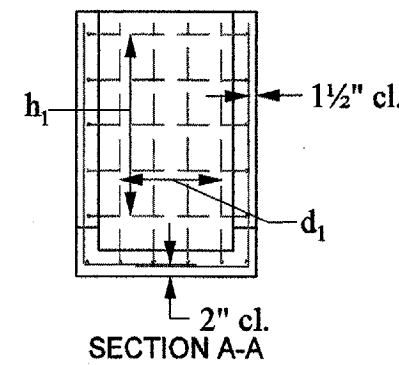
PLAN SHOWING OUTLINES

Lt. STA. 591+17.6 (SKEW ANGLE = 8.74°)

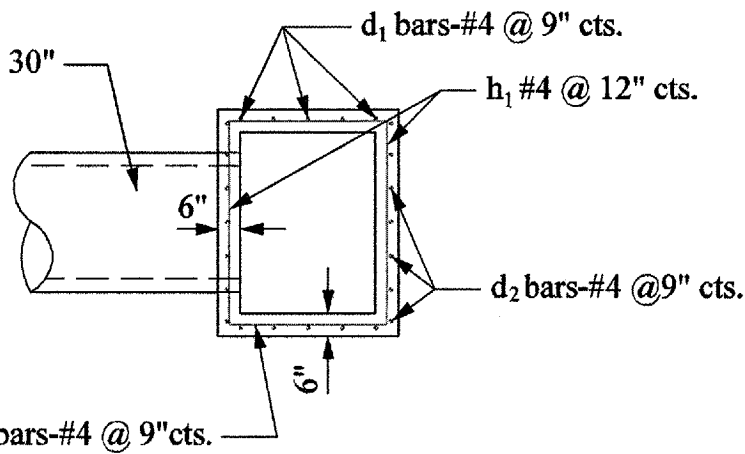


ELEVATION SHOWING OUTLINES

Lt. STA. 591+17.6 (SKEW ANGLE = 8.74°)

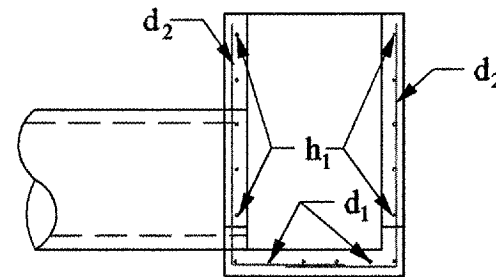


Pipe Culvert Type 4, RCCP 30"



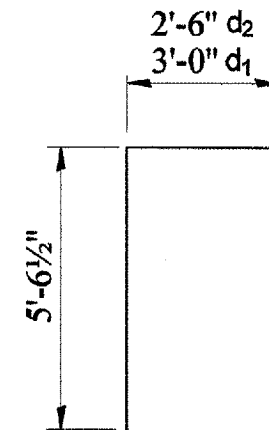
PLAN SHOWING REINFORCEMENT

Lt. STA. 591+17.6 (SKEW ANGLE = 8.74°)



ELEVATION SHOWING REINFORCEMENT

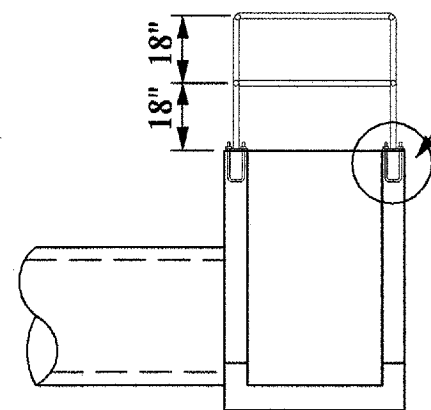
Lt. STA. 591+17.6 (SKEW ANGLE = 8.74°)



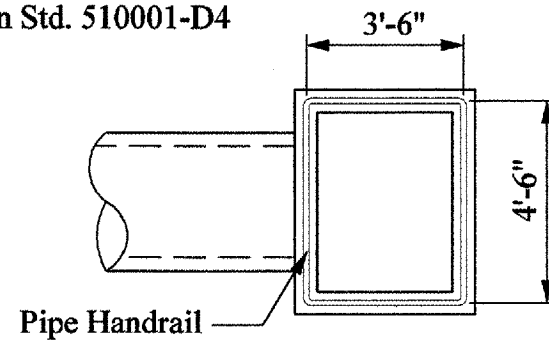
BAR d₁ & d₂

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	4	#4	2'-0"	—
d ₁	10	#4	8'-6 1/2"	┌
d ₂	14	#4	8'-0 1/2"	┌
h ₁	10	#4	3'-8"	—
h ₂	10	#4	4'-9"	—
Class SI Concrete			Cu. Yd.	2.0
Reinforcement Bars			Pound	195.20

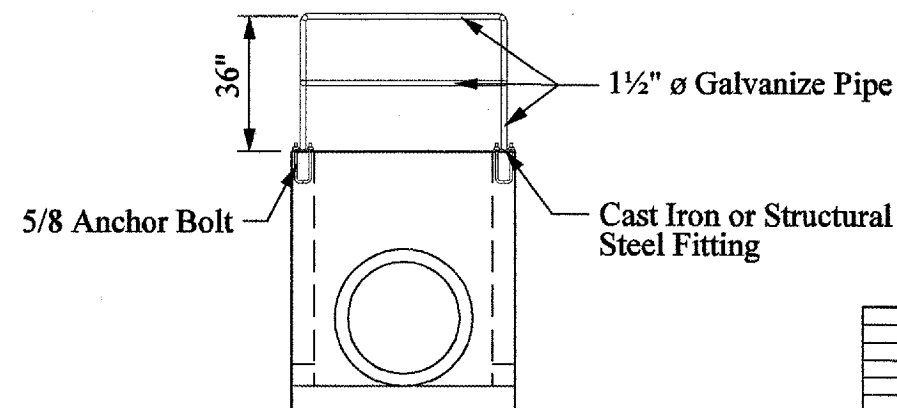


See detail on Std. 510001-D4



Pipe Handrail

PIPE HANDRAIL DETAILS



5/8 Anchor Bolt

1 1/2" ø Galvanize Pipe

Cast Iron or Structural Steel Fitting

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Drop Structure
Rt Sta. 591+17.6

SCALE: VERT.
HORIZ.
DATE

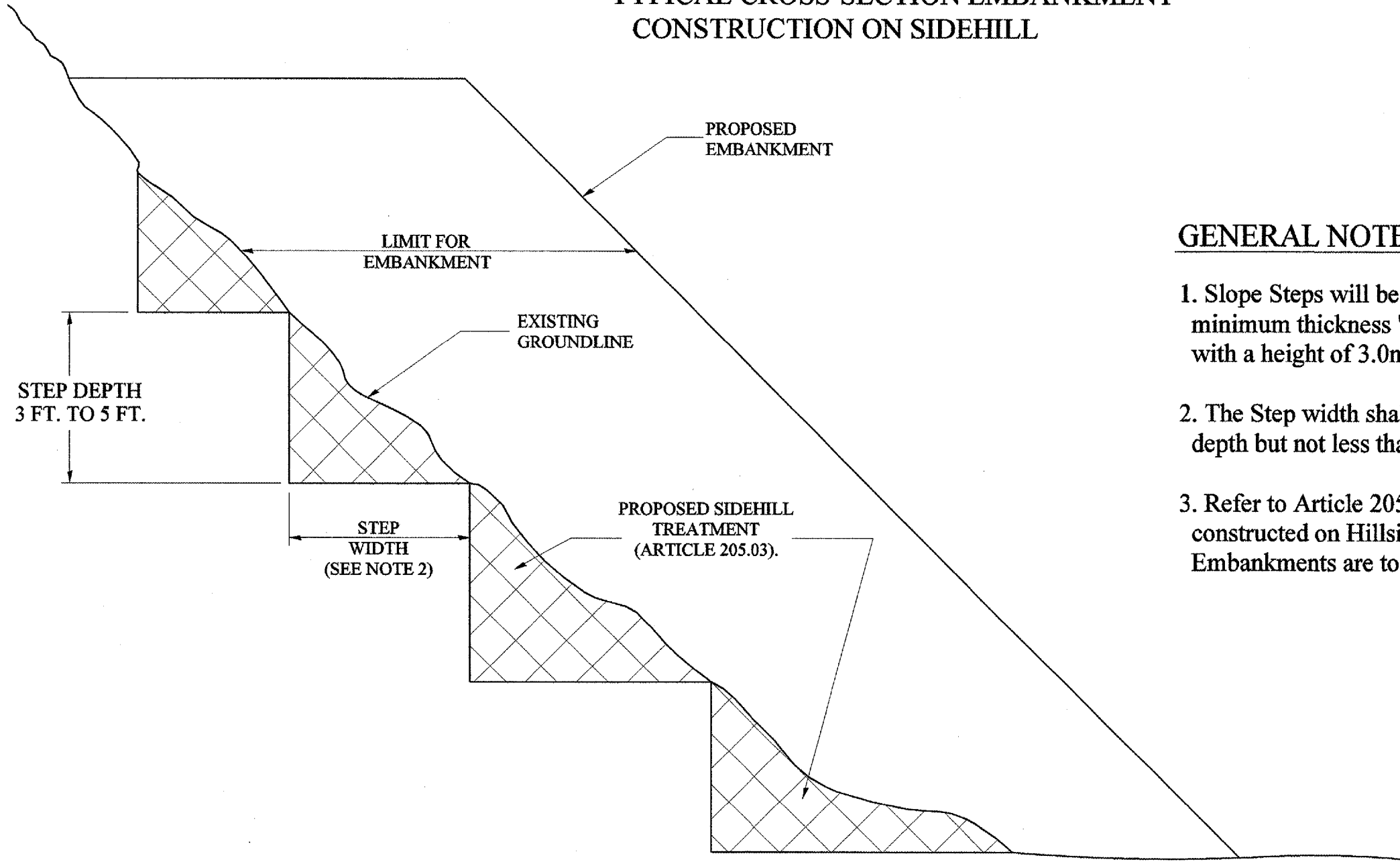
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/REPAIR 2007

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 SPECIFACATION).

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**

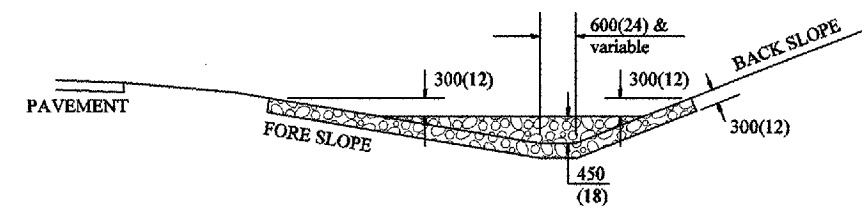
CADD STD. NO. 205001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

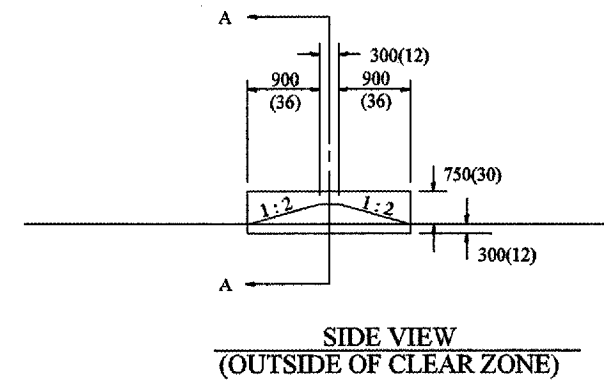
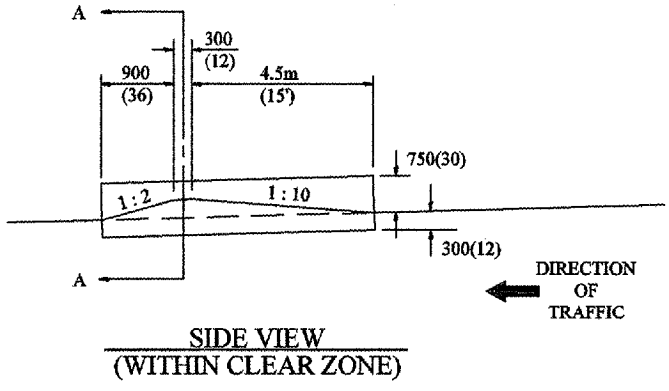
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	17
STA.		TO STA.		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	
* D4 CULVERT EXT/REPAIR 2007				

NOTES:

- FOR DITCH BOTTOM PROTECTED BY EXCELSIOR BLANKET, USE 120m(400') SPACING. FOR SEEDED DITCH BOTTOM, USE 60m(200') SPACING.
- THIS WORK CONSISTS OF THE COMPLETE INSTALLTION OF EROSION CONTROL DITCH CHECK AT LOCATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THE AGGREGATE GRADATION SHALL BE RR3 WITH A MINIMUM QUALITY OF CLASS C.



SECTION A - A

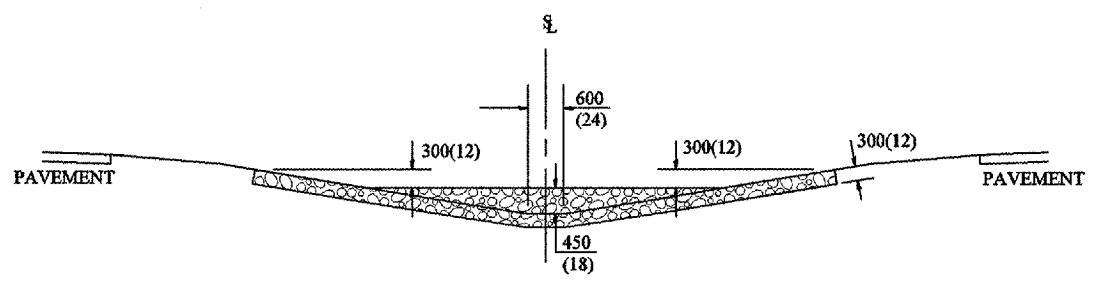


SIDE DITCH AGGREGATE DITCH CHECK

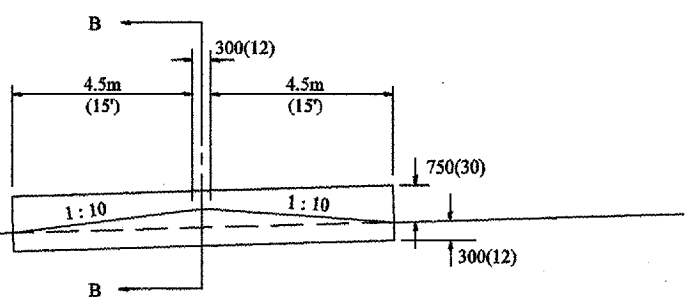
LOCATION	STATION	SIDE DITCH		NUMBER OF DITCH CHECKS	FORE SLOPE	DITCH BOTTOM WIDTH	BACK SLOPE	BERM SLOPE
		MEDIAN	LEFT					
STA. 590+00				43	4:1	2	3:1	2:1
STA. 590+50				65	3:1	2	3:1	2:1
STA. 591+00				94	2.5:1	2	3:1	2:1
STA. 591+00			52	1	4:1	2	3:1	2:1
STA. 591+48				82	2.5:1	2	3:1	2:1
STA. 591+50				86	2.5:1	2	3:1	2:1
STA. 592+00				54	2.5:1	2	2.5:1	2:1
STA. 592+10				130	2:1	2	6:1	2:1
STA. 592+27				112	2:1	2	3:1	2:1
STA. 592+43				94	3:1	2	3:1	2:1
STA. 592+56				75	3:1	2	3:1	2:1
STA. 592+69				53	3:1	2	3:1	2:1

ESTIMATE QUANTITIES

	FORE SLOPE	DITCH BOTTOM	BACK SLOPE	BERM SLOPE	AGGREGATE DITCH CHECK EROSION CONTROL METRIC TON(TON)
MEDIAN DITCH	1:6	600(24)	—	1:10	86(95)
SIDE DITCH	1:6	600(24)	1:4	1:10 & 1:2	45(50)
SIDE DITCH	1:6	600(24)	1:4	1:2 & 1:2	17(19)
SIDE DITCH	1:4	600(24)	1:3	1:10 & 1:2	16(18)
SIDE DITCH	1:4	600(24)	1:3	1:2 & 1:2	13(14)



SECTION B - B



SIDE VIEW
MEDIAN AGGREGATE DITCH CHECK

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

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

EROSION CONTROL AGGREGATE DITCH CHECK

CADD DETAIL 280101-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY

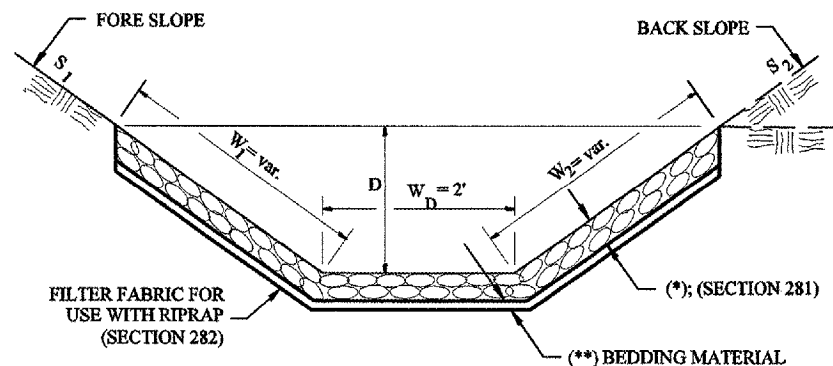
DATE	REVISIONS	BY
1-1-97	RENUM. A-12.04, NEW REVISION BOX, REVISED TITLE BOX, ADDED QUANTITY CALCULATION BOX	T.P.

DESIGNER NOTES:
1. Designer to modify this detail Special Detail Sheet, as needed, for inclusion in plans.
2. Determine the required clear zone in order to select the berm slopes.
3. Include State Standard 280001.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/ REPAIR 2007

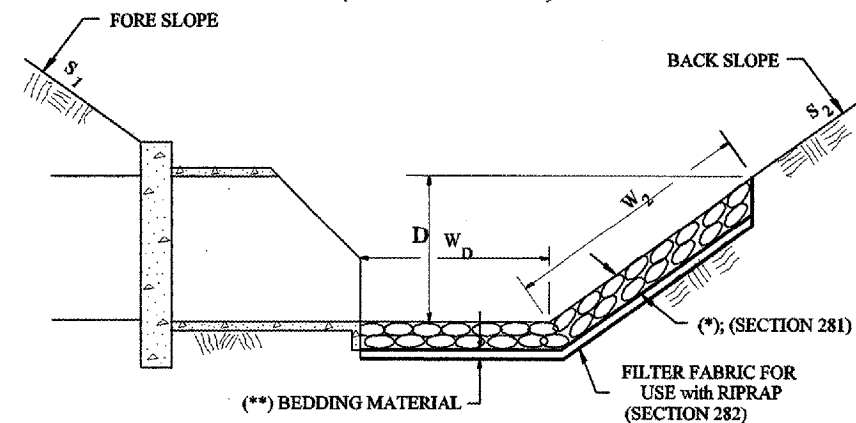
CASE 1
(DITCH)



Stone Riprap, Class A-4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
Rt Sta. 589+26 to 591+13	10.3 - 18.6	238.2	284.4	284.4
Rt Sta. 591+23 to 592+57	16.9 - 10.4	176.8	219.6	219.6
Lt Sta. 589+99 to 591+92	9.5 - 10.4	281.9	315.3	315.3
Lt Sta. 592+02 to 592+78	10.4 - 11.3	172.0	208.2	208.2
TOTAL			1,027.5	1,027.5

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

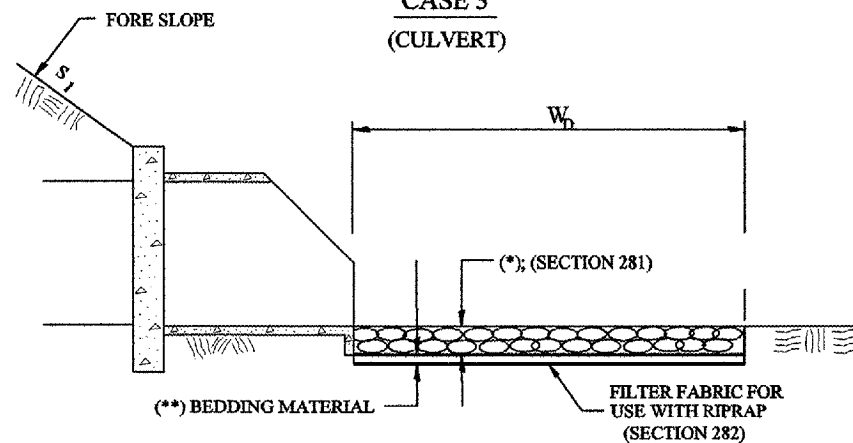
CASE 2
(CULVERT & SLOPE)



Stone Riprap, Class A-4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
TOTAL				

(1) WIDTH = $W_2 + W_D$

CASE 3
(CULVERT)



Stone Riprap, Class A-4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
Rt Sta. 591+13 to 591+23	10.0'	23.08'	25.6	25.6
Lt Sta. 591+92 to 592+02	10.0'	15.4'	17.1	17.1
TOTAL			42.7	42.7

(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

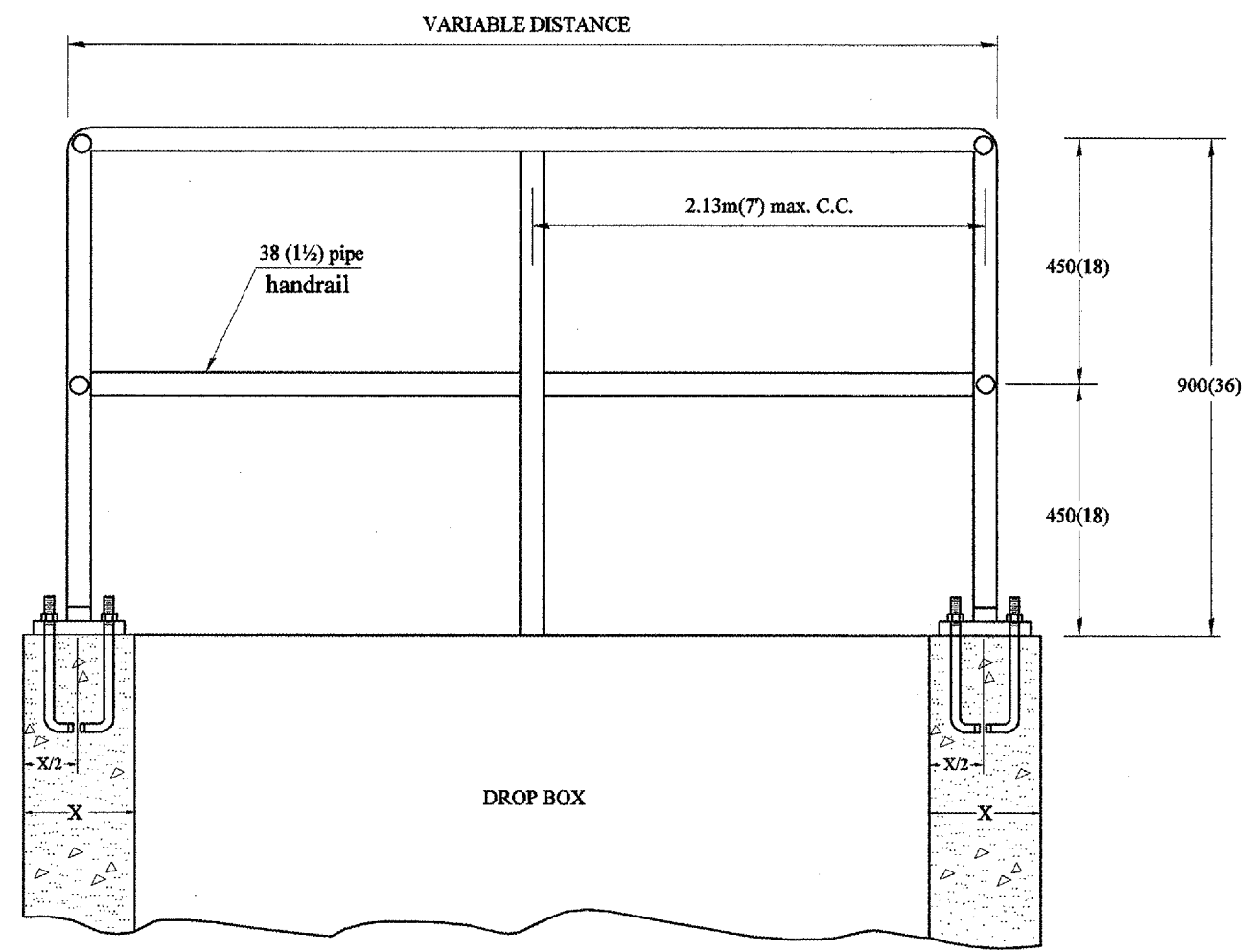
DRAWN BY CADD
CHECKED BY

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.

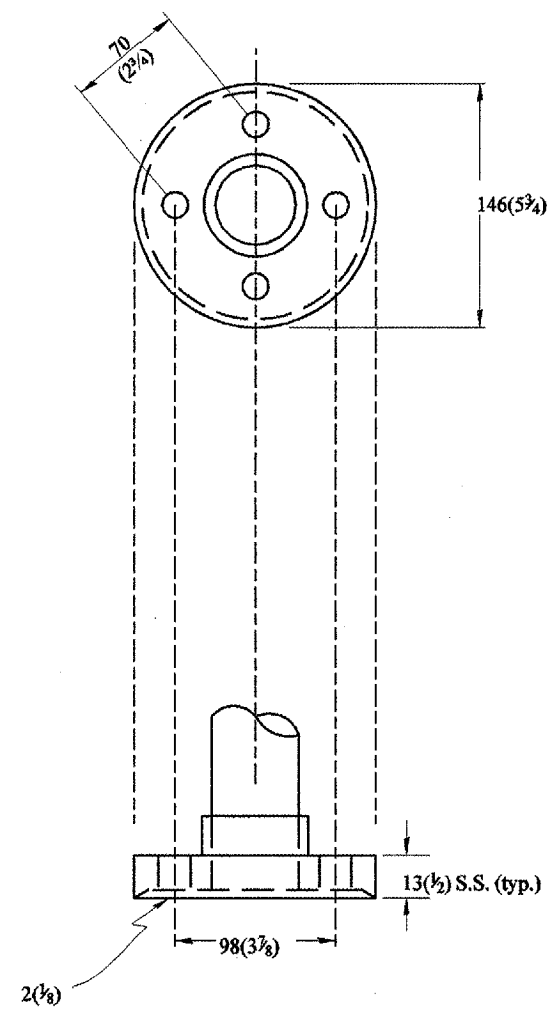
- Designer NOTES:
1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. (**) Designer to specify thickness of bedding material.
 4. Include District Special Provision if needed.

SSDATESS

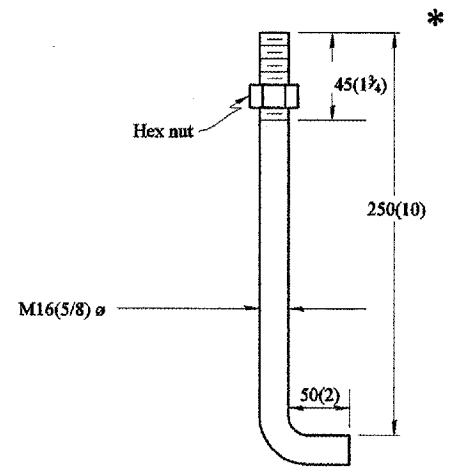
CONTRACT NO. 68504			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
687	.	Fulton	37 19
STA.		TO STA.	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	
* D4 CULVERT EXT/REPAIR 2007			



20(\varnothing) CORED HOLES $\frac{3}{4}$ " CORED HOLES FOR ANCHOR BOLTS



CAST IRON OR STRUCTURAL STEEL FITTING



BUILT-IN ANCHOR BOLT
M16 (5/8) \varnothing , 300 (12) LONG
(SEE GENERAL NOTE 3)

GENERAL NOTES:

1. Article 510.03 of the Standard Specifications shall apply.
2. Connection of railing to posts shall be made be continuous welding or with using standard pipe fitting.
3. An equivalent epoxy anchor stud can be used in place of anchor shown. Anchor bolt holes shall be 20 ($\frac{3}{4}$) in diameter and 125 (5) deep. They shall be predrilled with an electric hammer drill to a depth of 4 (100) prior to use a pneumatic drill for the remaining 4 (100). A two component encapsulated epoxy such as "Parabond" or an equivalent shall be used. Installation shall be according to Manufactures's recommendations.
4. The pipe handrail shall be galvanized by the hot dip process.

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

\$\$\$DATESS

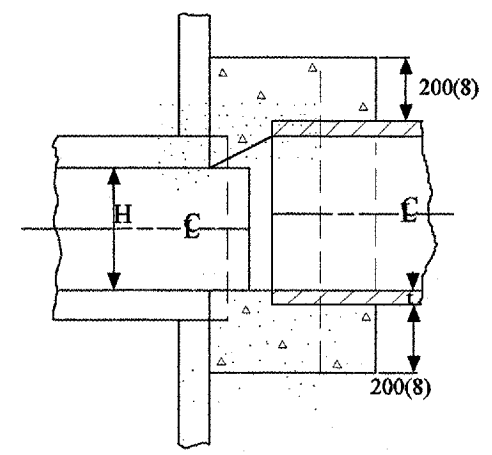
DATE	REVISIONS	BY
1-1-97	RENUM. B-11.01, METRICS, NEW REVISION BOX, REVISED TITLE BOX, REVISED NOTES	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
DETAIL OF PIPE HANDRAIL FASTENING	
CADD STANDARD 510001-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY
DATE \$\$\$DATESS	

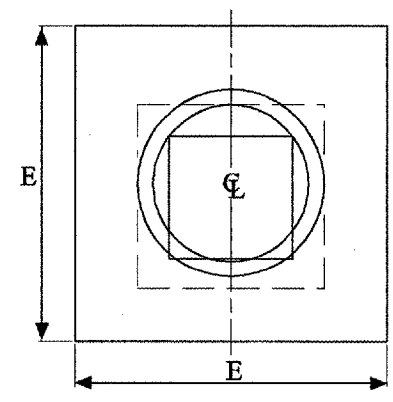
DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

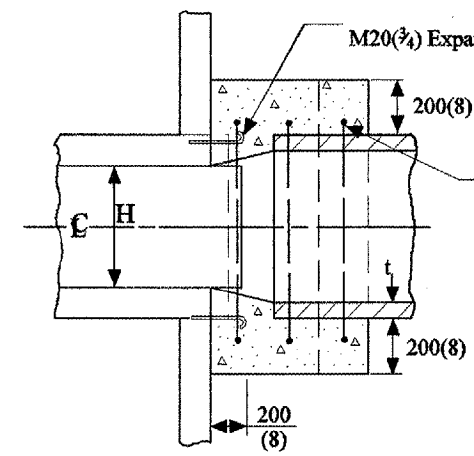
* D4 CULVERT EXT/ REPAIR 2007



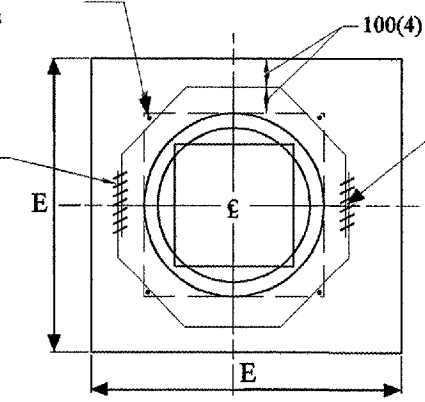
SECTION A-A



END VIEW



SECTION A-A



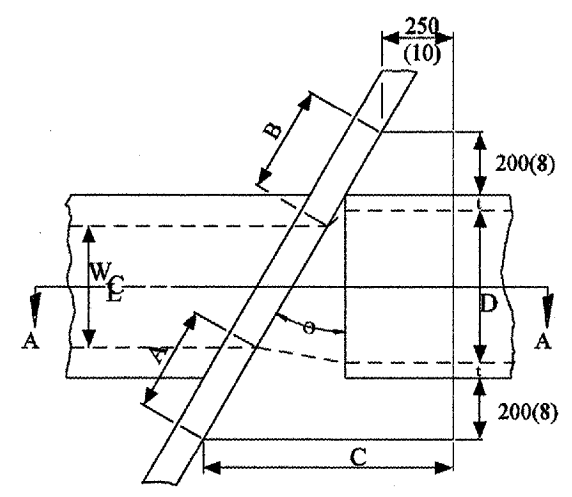
END VIEW

$$A = B = \frac{D - W}{2} + t + 200(8) \div \cos \theta$$

$$C = \tan \theta [D + 2t + 410(16)] + 250(10)$$

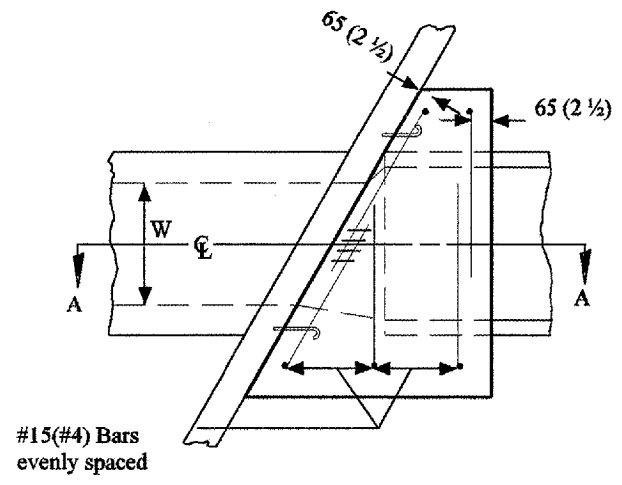
$$G = \frac{D + 2t + 200(8)}{2.4142 [\cos \theta]}$$

(Note: 'G' is based upon maximum skewed length)

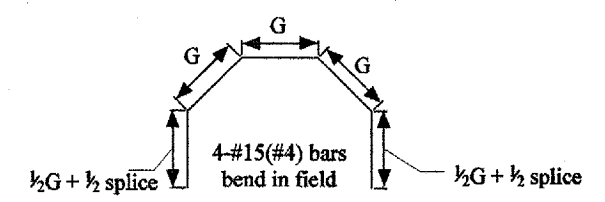


PLAN VIEW UP STREAM

NOTE: Dimensions are shown in Plan View of Up Stream End while Reinforcement is shown in plan view of Down Stream End.



PLAN VIEW DOWN STREAM



GENERAL NOTES

1. The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of Section 503 of the Standard Specifications. Reinforcement Bars shall conform to Section 508.
2. Expansion Bolts shall consist of approved Expansion Anchors, and M20 (3/4) hook bolts which conform to section 1006.09. These Bolts shall extend at least 200(8) into the new Concrete.

EXISTING BOX		θ	EACH COLLAR							CONCRETE		REINFORCEMENT BARS			EXPAN. BOLTS
			A	B	C	D	E	t	CU. YD.	G	L	LBS.	EACH		
W	H														
PIPE 30"		8.80°	11 5/8"	11 5/8"	1'-6"	30"	4'-5"	3 1/2"	1.0	18 7/8"	6'-5"	21.44	8		

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

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

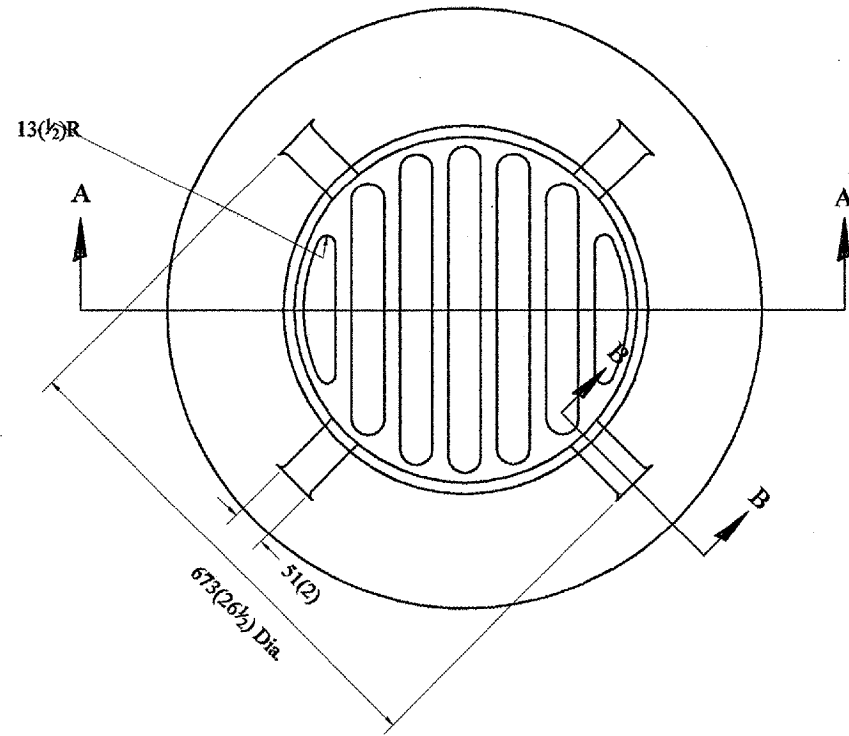
DGN-ONLY

DATE	REVISIONS	BY
1-1-97	RENUM. I-11.03. NEW REVISION BOX. REVISED TITLE BOX. ADDED QUANTITY CALCULATION BOX.	T.P.

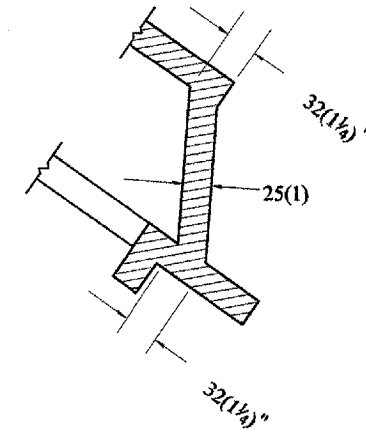
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD
**SKewed PIPE CULVERT
 EXTENSION COLLAR
 (WITH END SECTION)**
 CADD STD. NO. 542011-D4
 SCALE: NOT DRAWN TO SCALE
 DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	21
STA.		TO STA.		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

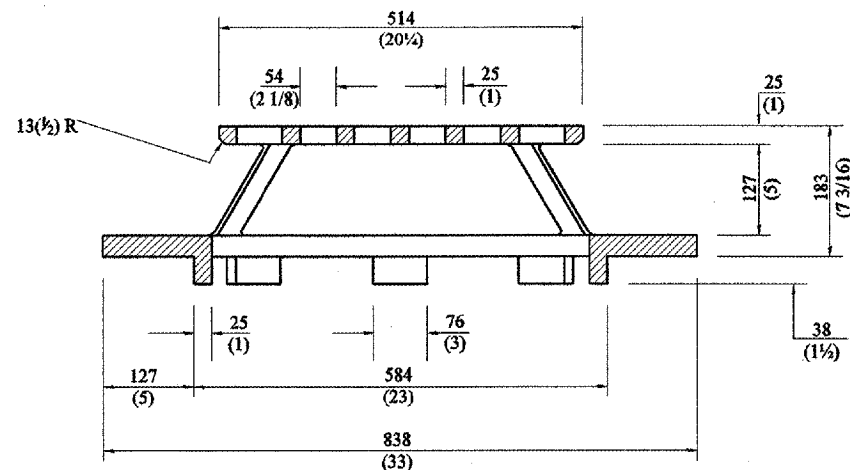
* D4 CULVERT EXT/REPAIR 2007



PLAN



SECTION B - B



SECTION A - A

GENERAL NOTES

1. MATERIAL - Cast Gray Iron
Weight 95 kg (209 lbs)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

TYPE 37 GRATE

CADD STANDARD 604301-D4

SCALE NOT TO SCALE
DATE \$\$\$DATE\$\$

DRAWN BY CADD
CHECKED BY

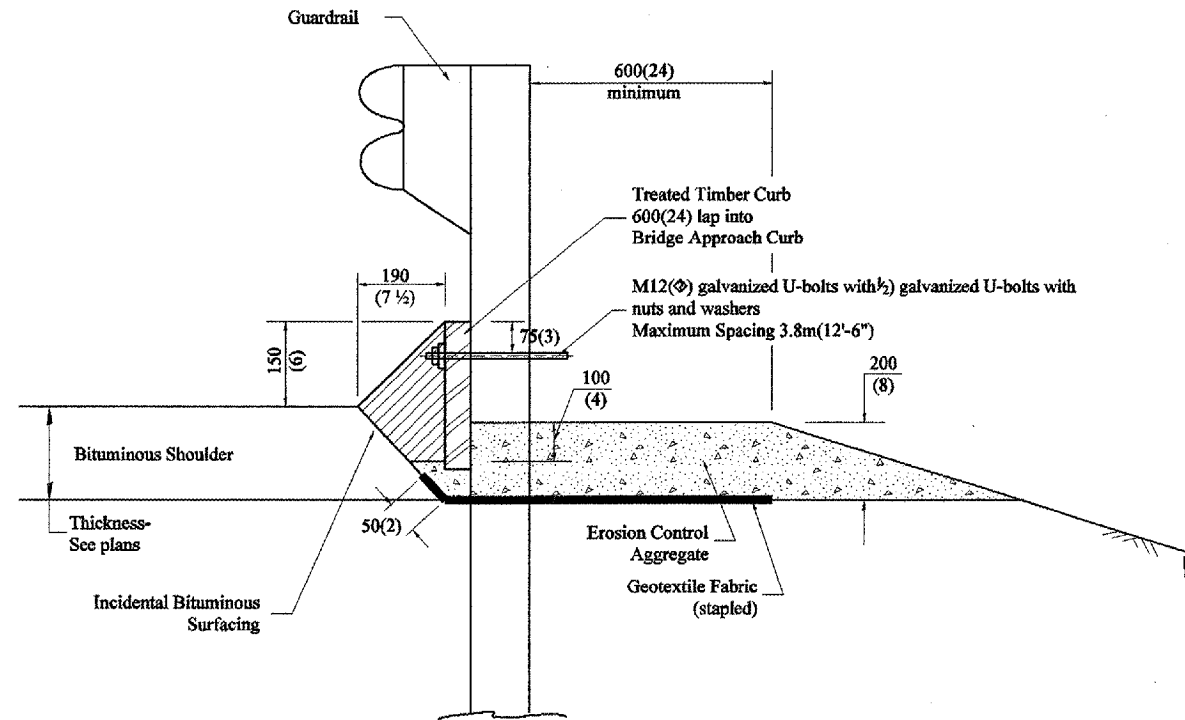
DATE	REVISIONS	BY
1-1-97	RENUM. B-10.02, NEW REVISION BOX	T.P.

DESIGNER NOTE:
1. INCLUDE DISTRICT SPECIAL PROVISION.

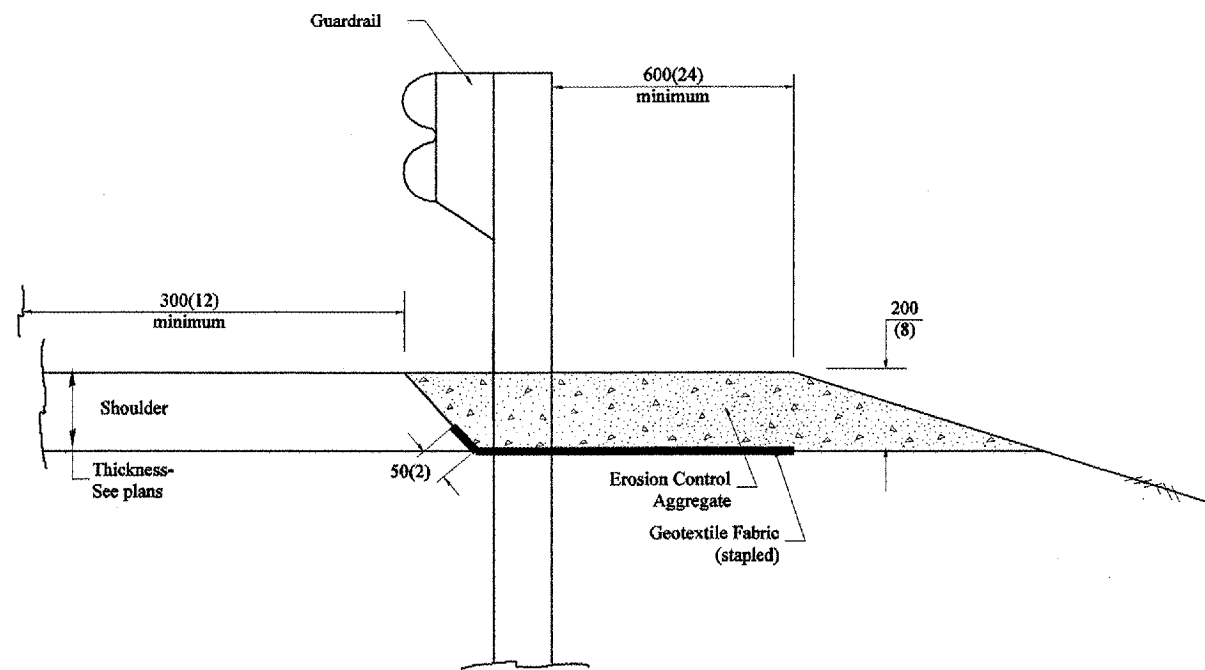
\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/ REPAIR 2007



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

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

SHEET 1 OF 2
DRAWN BY CADD
CHECKED BY

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.

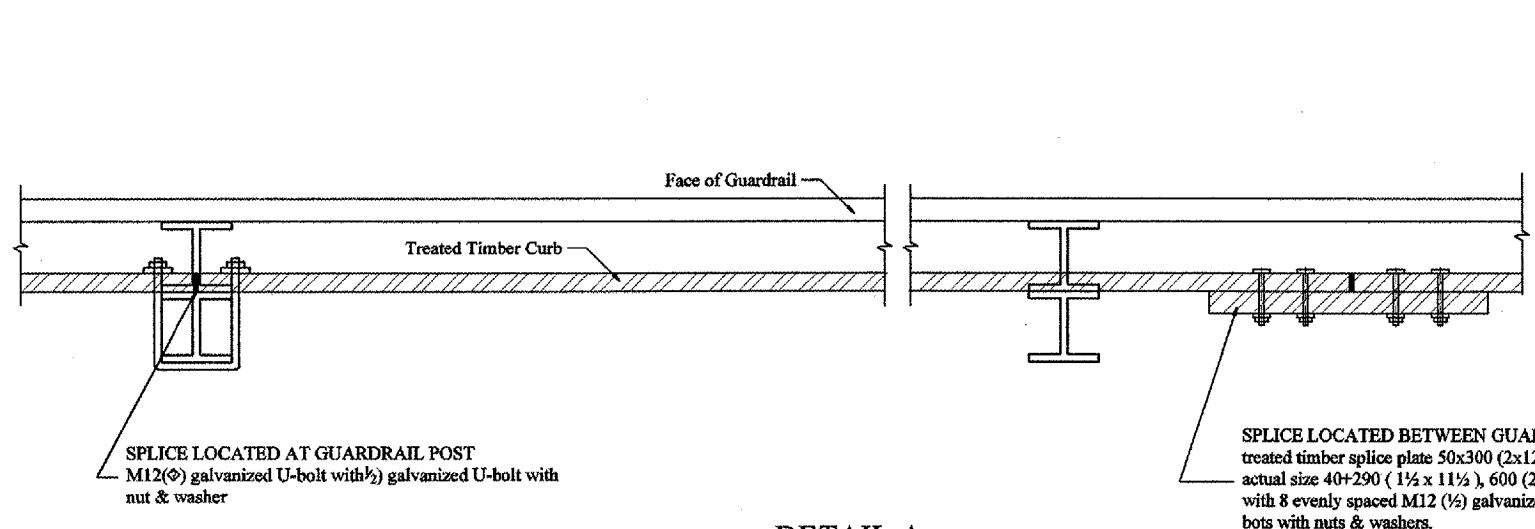
DESIGNER NOTE:
 1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. [Include District Special Provision]
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% [Include District Special Provision]
 3. Include State Standards 609001, 609006 or 61 0001 if applicable.
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.

SSDA.TESS

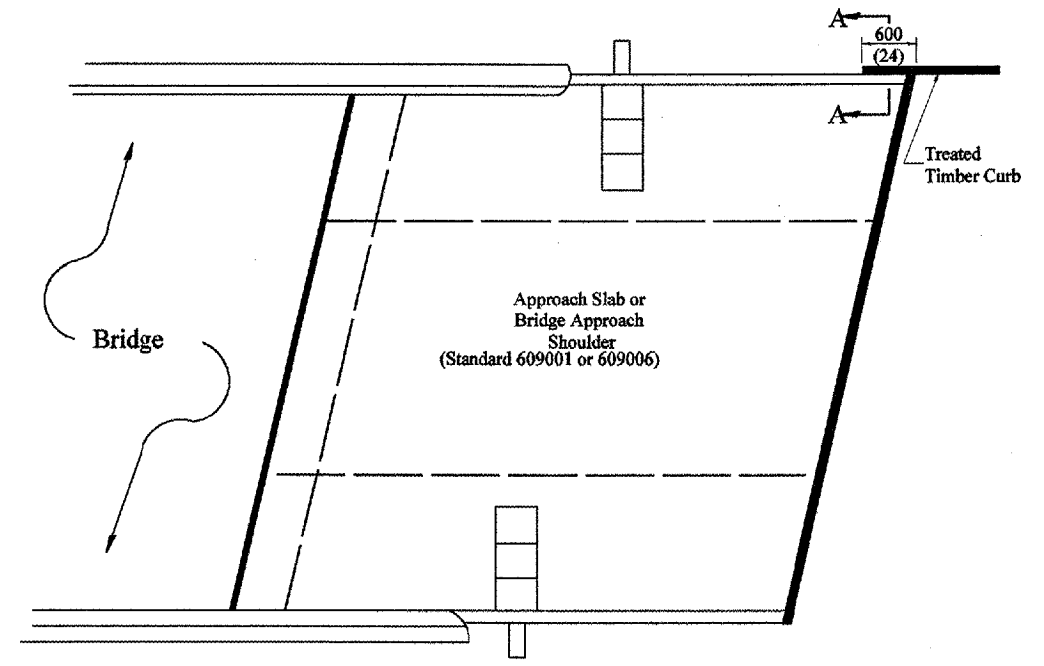
DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

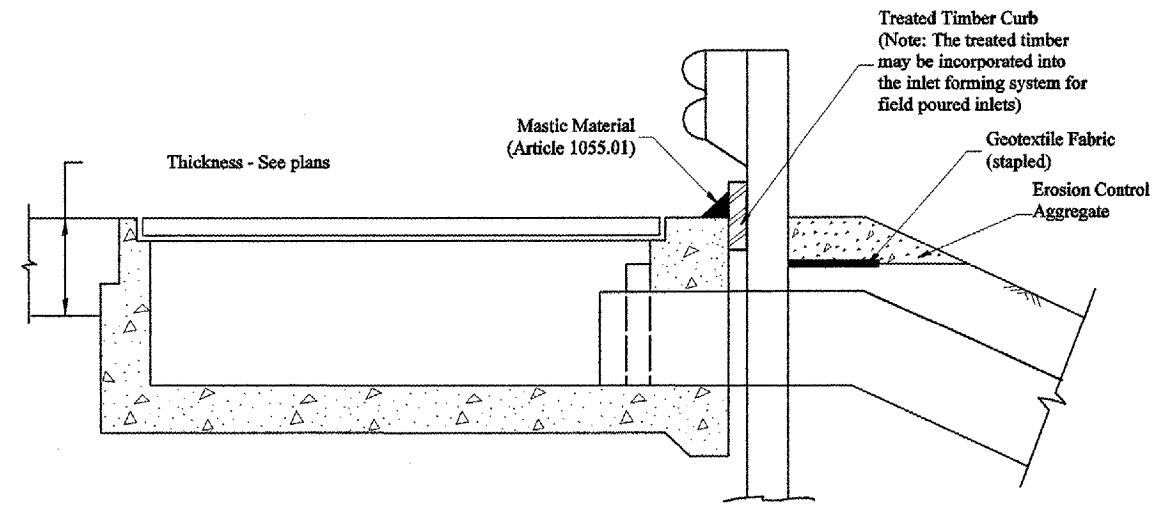
* D4 CULVERT EXT/ REPAIR 2007



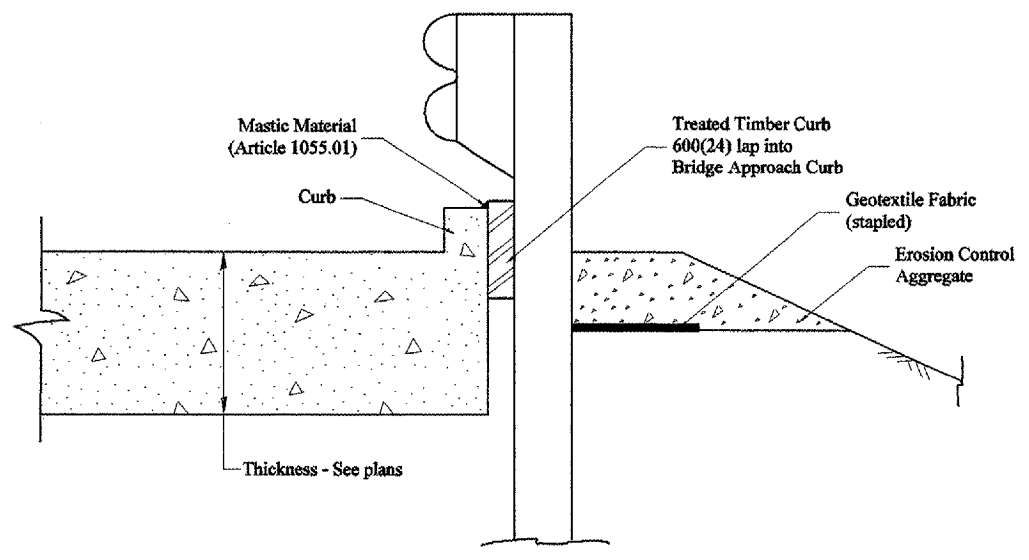
DETAIL A
(Typical Treated Timber Splices)



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.

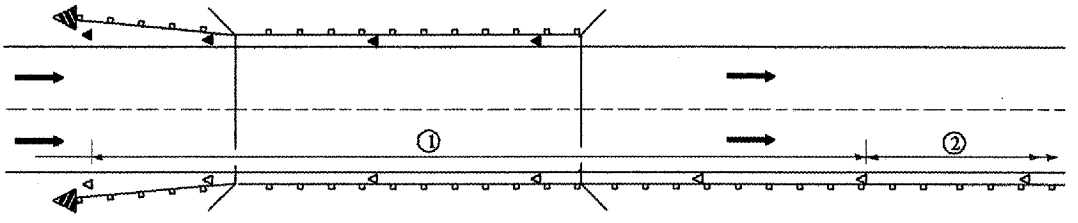
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

SSDATESS

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

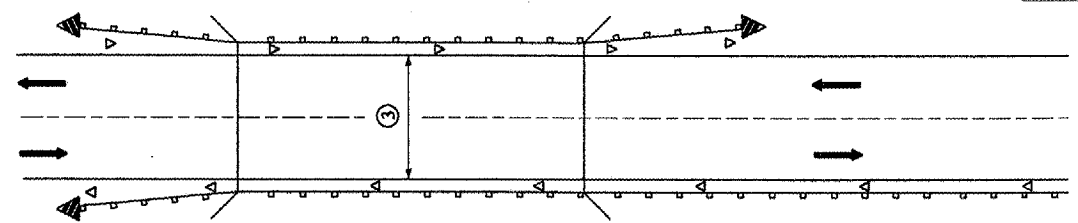
* D4 CULVERT EXT/ REPAIR 2007



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



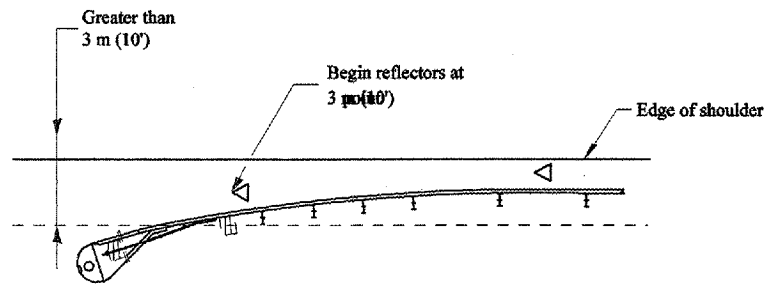
③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 610 (24) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

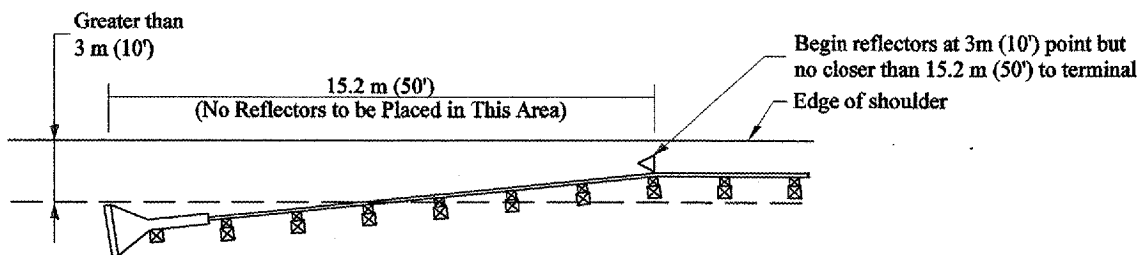
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow
Left or Right as appropriate



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

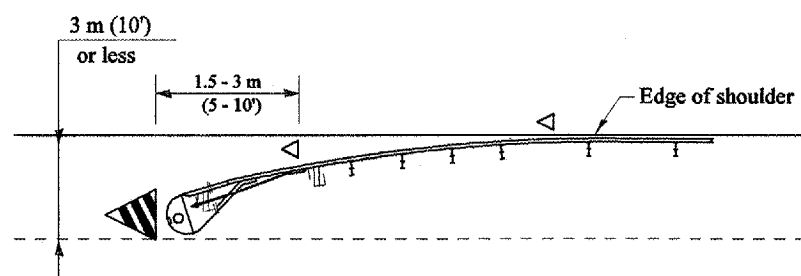
[Terminal over 3 m (10') from edge of shoulder]
*See Plans for Type



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

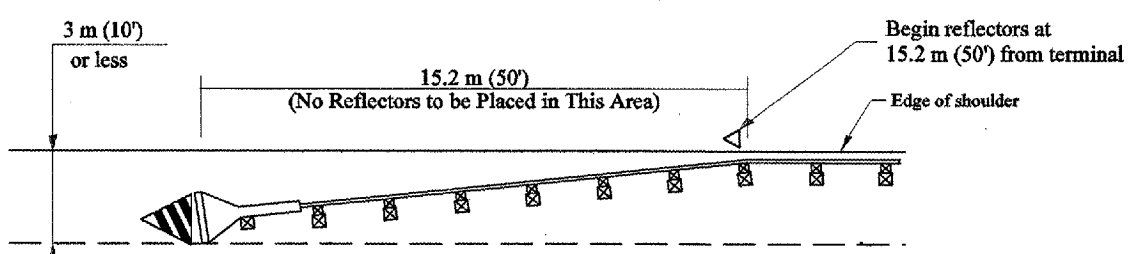
Traffic Barrier Terminal Type 1 (Special)

[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.

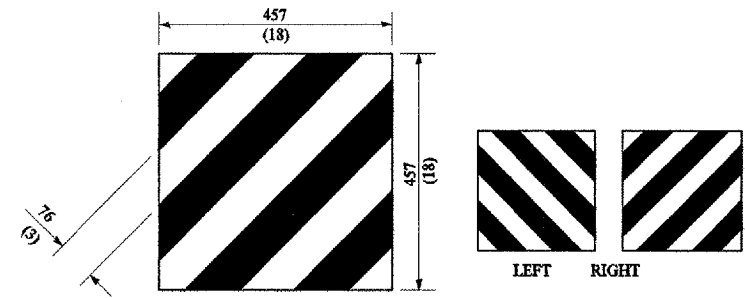
TERMINAL MARKER PLACEMENT

DESIGNER NOTE:
1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 72011.

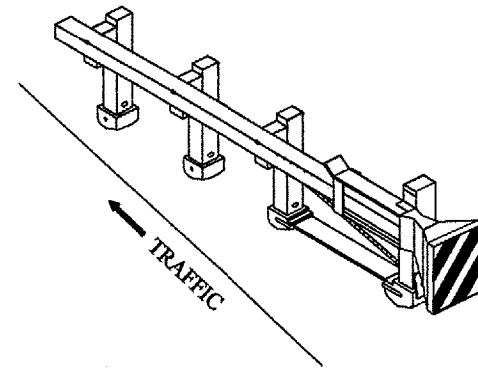
\$\$\$DATE\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

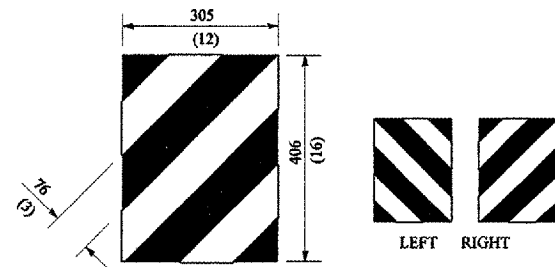
* D4 CULVERT EXT/ REPAIR 2007



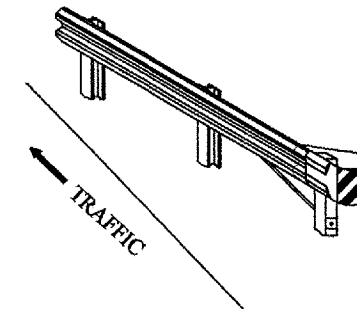
For Traffic Barrier Terminal Type 1 (Special)



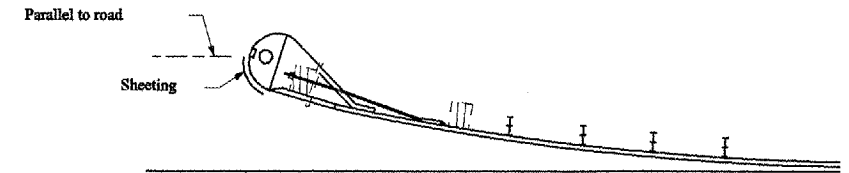
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



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



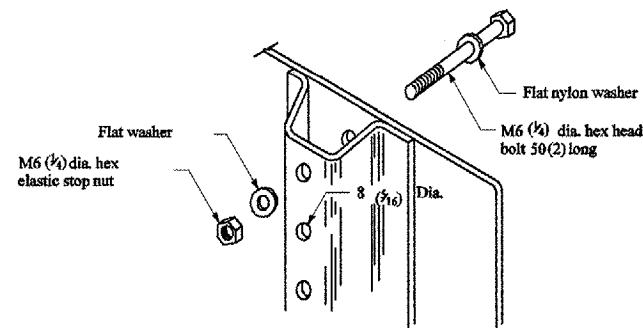
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
* See Plans for Type



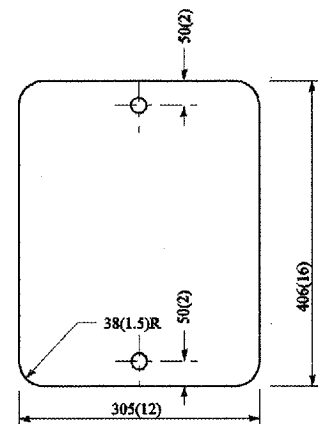
Sheeting Position for
Traffic Barrier Terminal Type (*)
* See Plans for Type

TERMINAL MARKER DETAILS

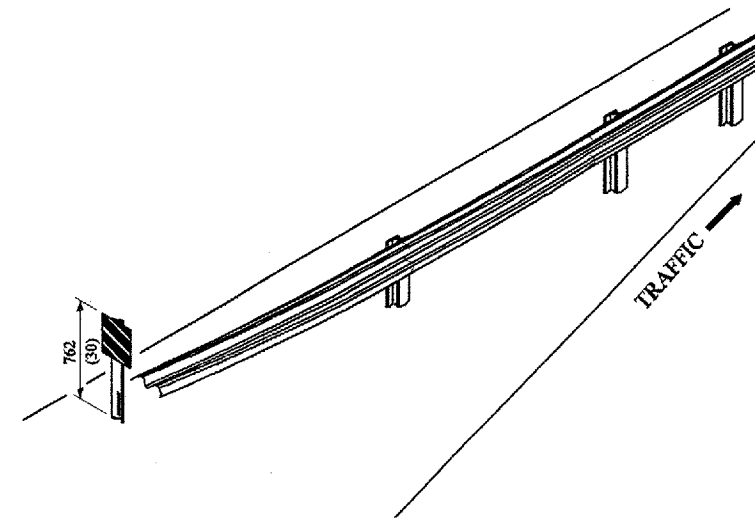
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



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

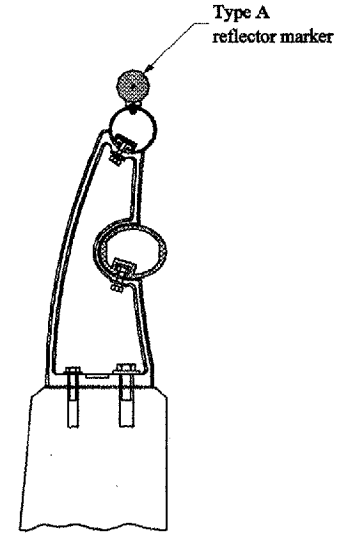
GUARDRAIL AND BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

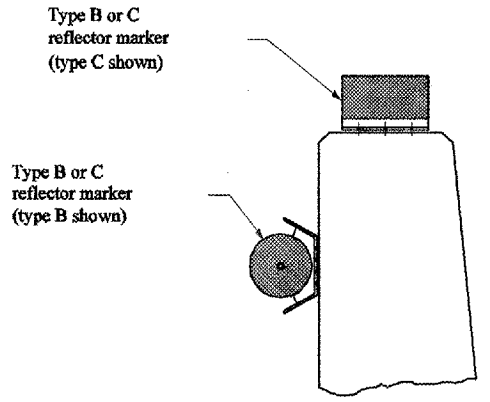
\$\$\$\$DATE\$\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	Fulton	37	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D4 CULVERT EXT/REPAIR 2007

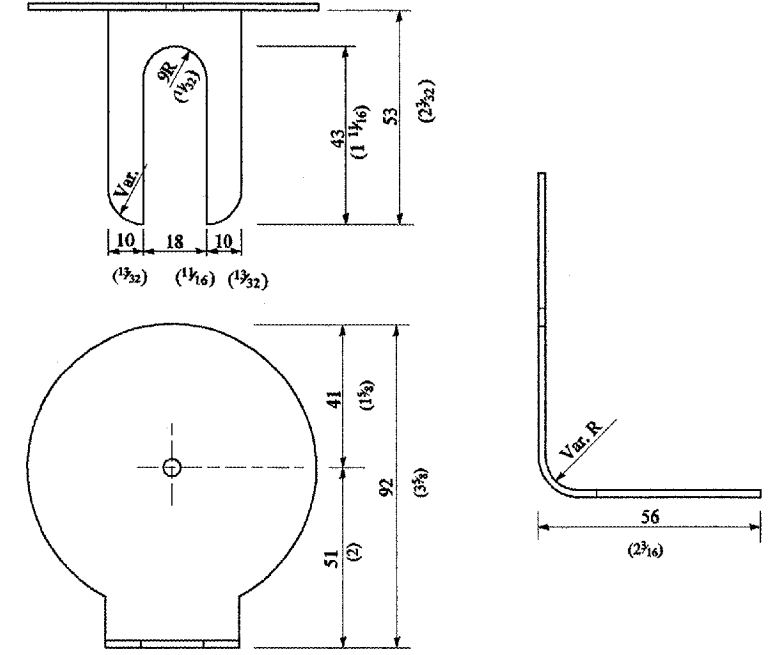


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



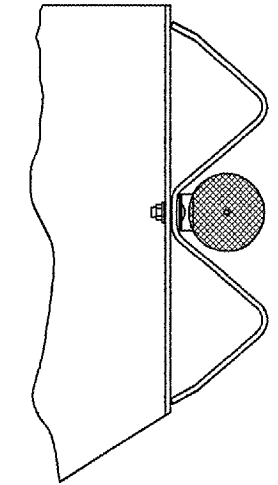
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING

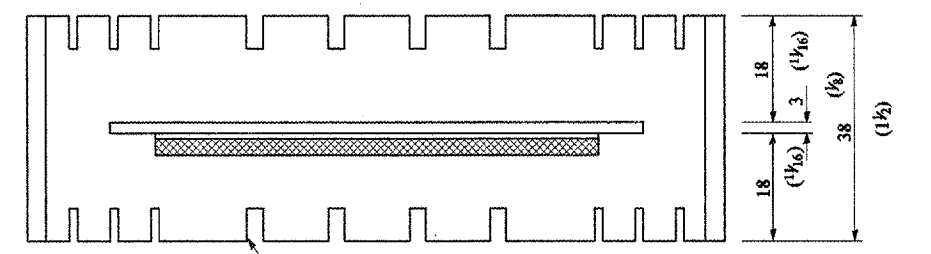


REFLECTOR MARKER TYPE A

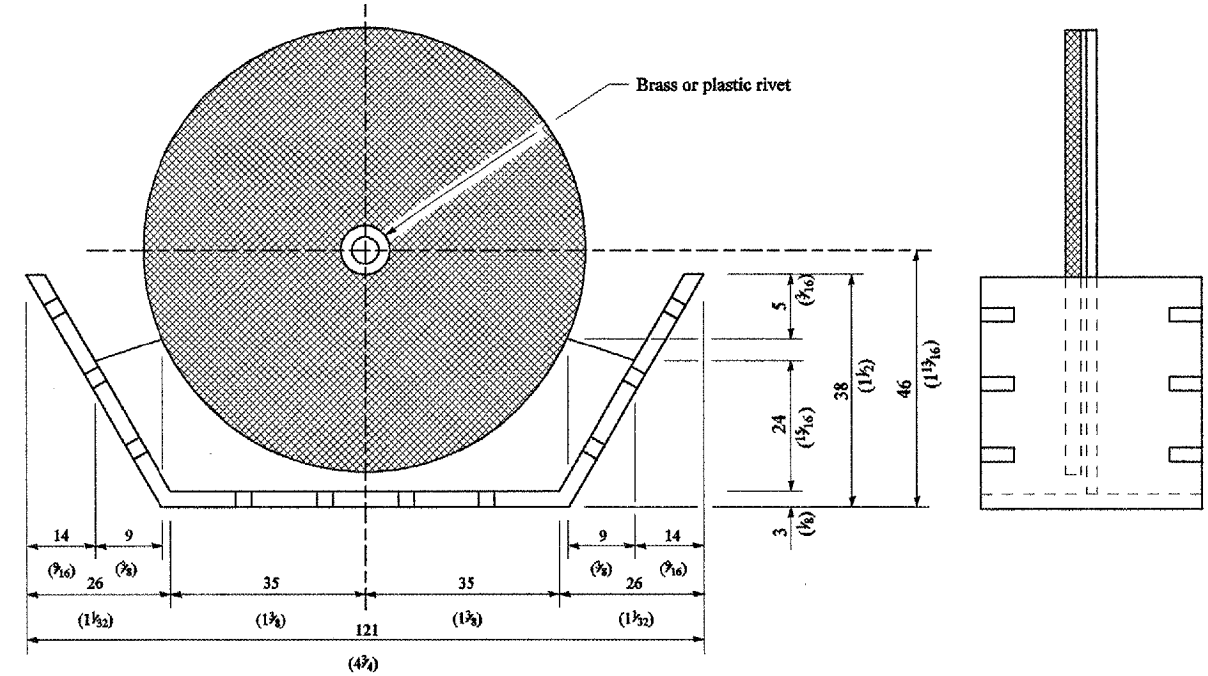
Min. reflective area 4,194 mm² (6½ Sq. in.) each side. May be rectangular or slight trapezoid.



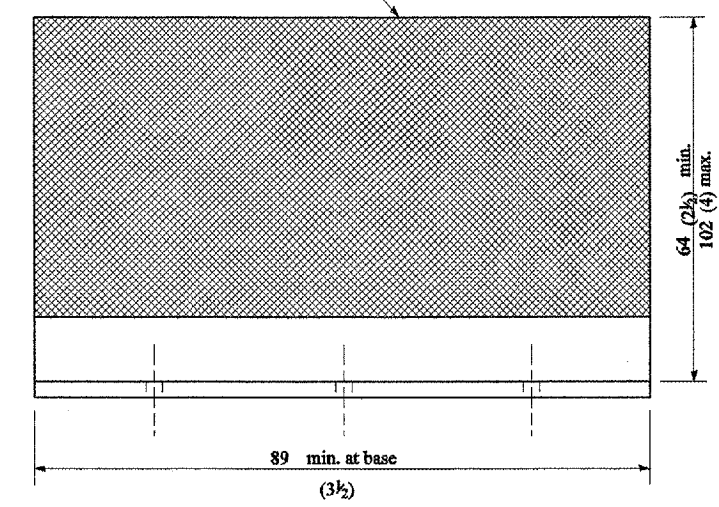
TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Adhesive weep slots or holes equally spaced on both sides



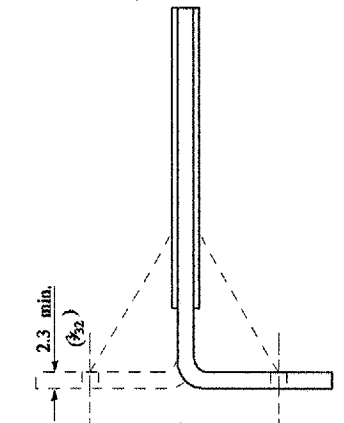
REFLECTOR MARKER TYPE B



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.)



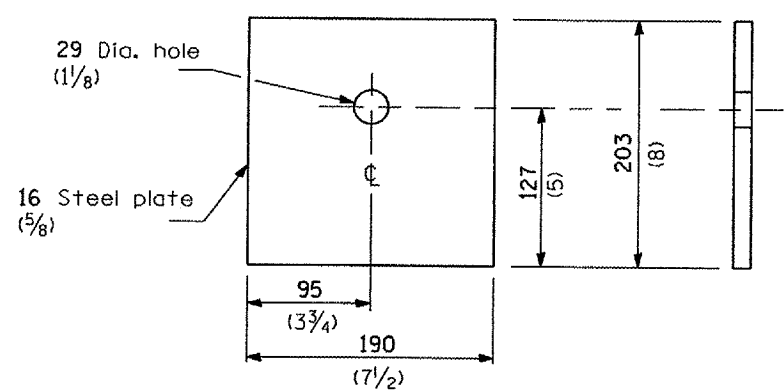
Cross section may be "T" or "L" shaped and may have side supports at ends.

REFLECTORS

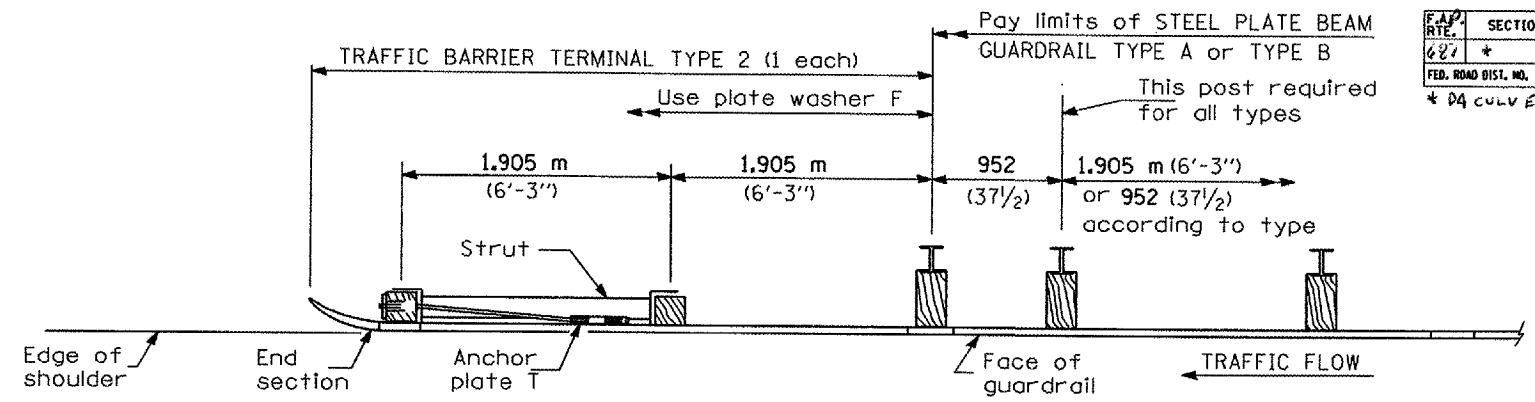
All dimensions are in millimeters (inches) unless otherwise noted.

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

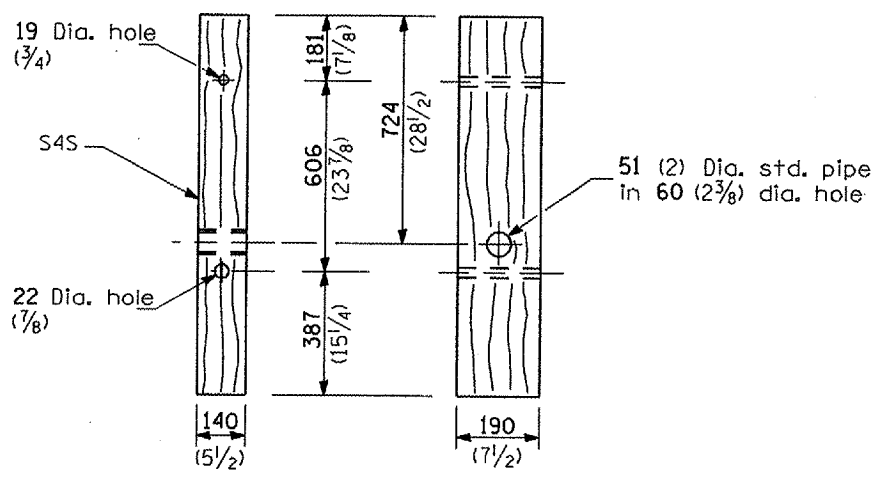
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
682 *		Fulton	37	26A
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* D4 CULV EXT / REPAIR 2007				



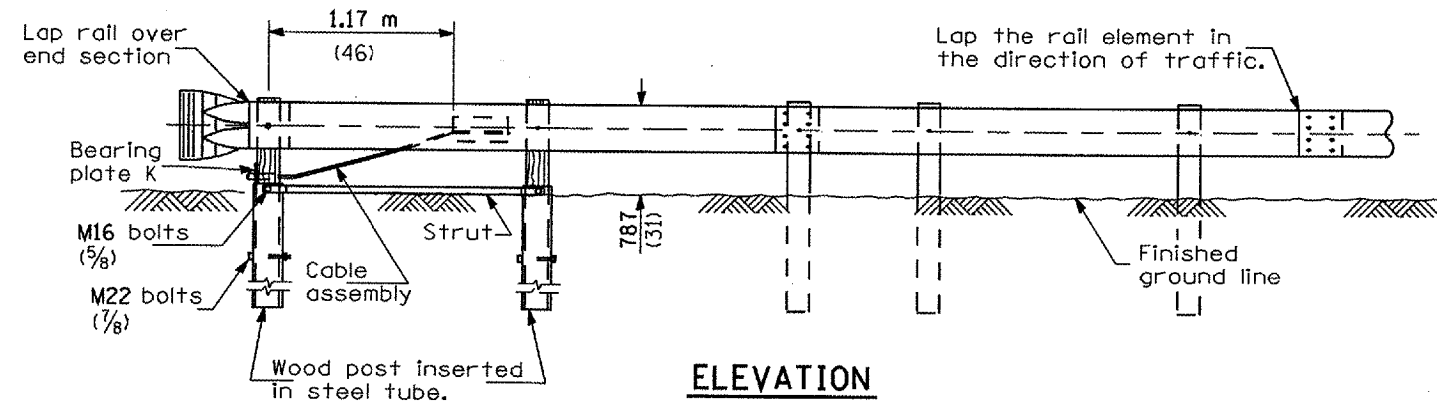
BEARING PLATE K



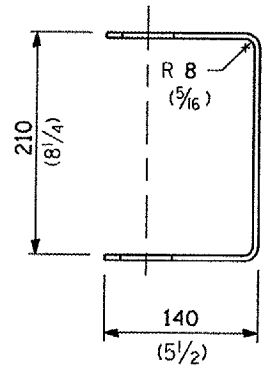
PLAN



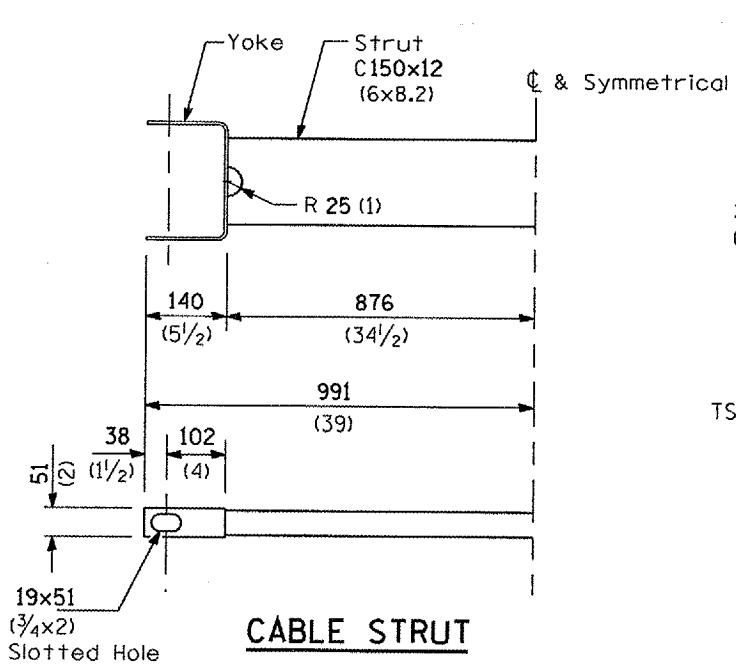
WOOD POST



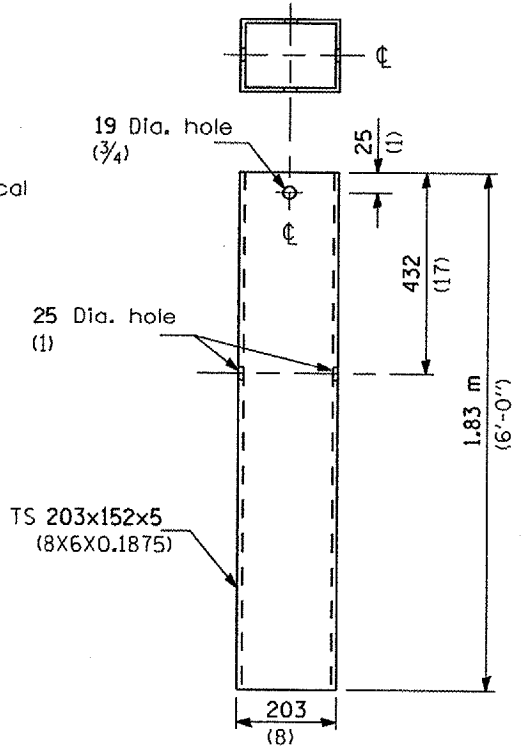
ELEVATION



YOKE
5 (3/16) thick steel



CABLE STRUT



STEEL TUBE

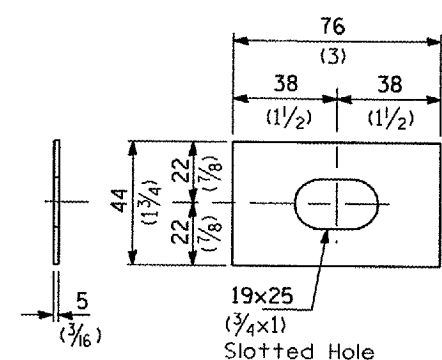


PLATE WASHER F

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

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

TRAFFIC BARRIER TERMINAL, TYPE 2

DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	27
STA. 589+00.00		TO STA. 589+00.00		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

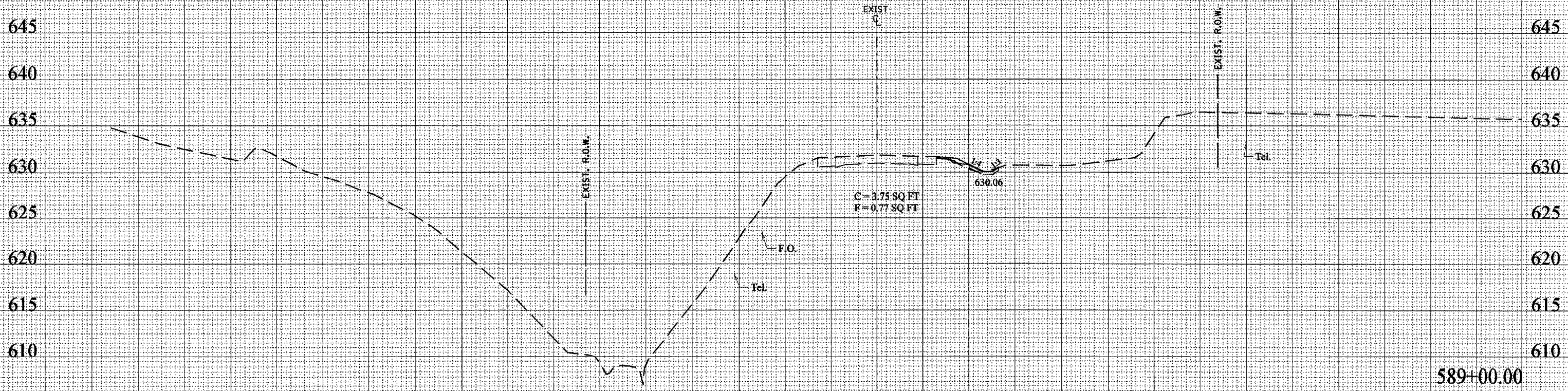
* IN-CULVERT EXTENSION REPAIR 2007

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FINAL SURVEY	BY	DATE
REVISIONS		
PLOTTED		
TABLET		
ARMS		
AUTOCHECKED		

ORIGINAL SURVEY	BY	DATE
REVISIONS		
PLOTTED		
TABLET		
ARMS		
AUTOCHECKED		

PLOT DATE = 4/19/07
 FILE NAME = c:\project\68304\tablets.dgn
 PLOT SCALE = 1"=20' (1/4")
 REFERENCE = SEE P



180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

589+00.00

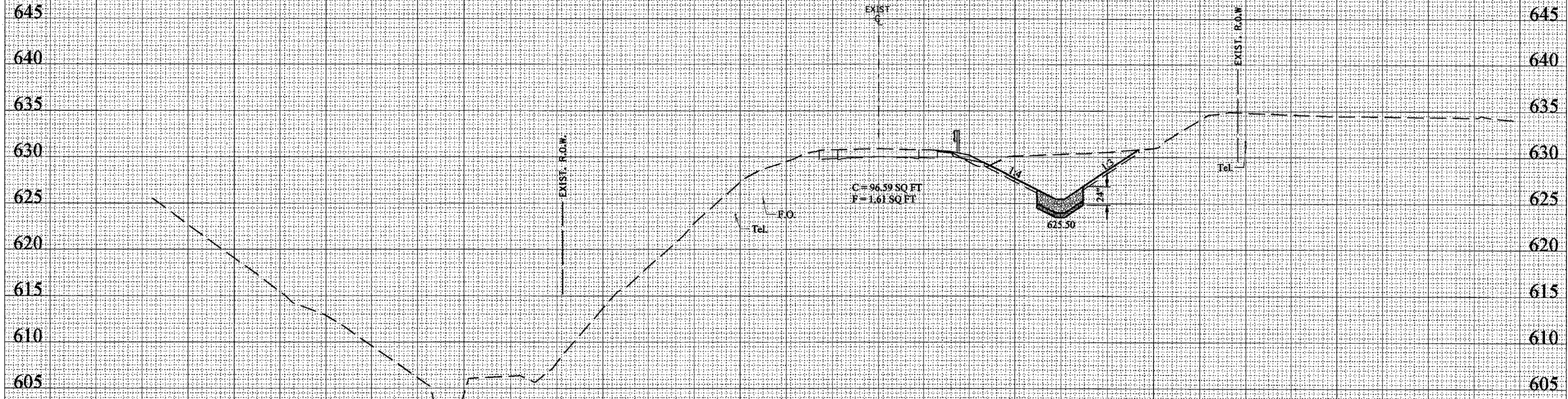
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	28
STA. 589+50.00		TO STA. 589+50.00		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

* 04 CULVERT EXT/REPAIR 2007

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

BY	DATE

ORIGINAL SURVEY	SUBMITTED
NOTE BOOK NO.	



180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

PLOT DATE - 4/19/07
 PLOT SCALE - 1" = 10.00'
 REFERENCE - SEE 3

BY	DATE

ORIGINAL SURVEY	SUBMITTED
NOTE BOOK NO.	

589+50.00

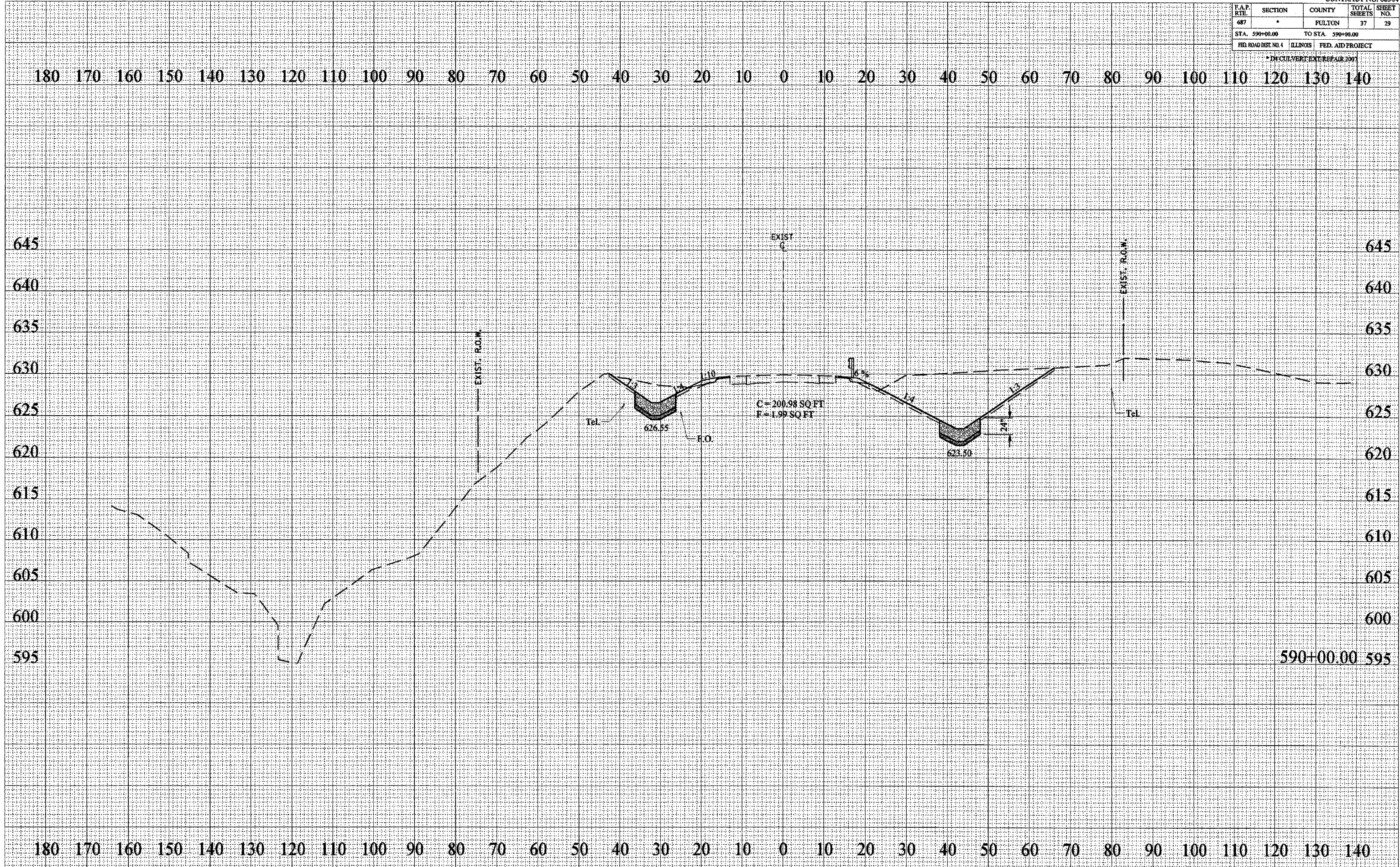
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	29
STA. 590+00.00		TO STA. 590+00.00		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

* D/CULVERT EXTENSION 2007

FINAL SURVEY	BY	DATE
GRAVITY		
FLIGHT		
TEMP. AT		
NOTE BOOK		
NO.		
AREAS CHECKED		

GENERAL SURVEY	BY	DATE
GRAVITY		
FLIGHT		
TEMP. AT		
NOTE BOOK		
NO.		
AREAS CHECKED		

PLOT DATE - 4/13/07
 PLOT SCALE - 1" = 10'
 REFERENCE - BESS

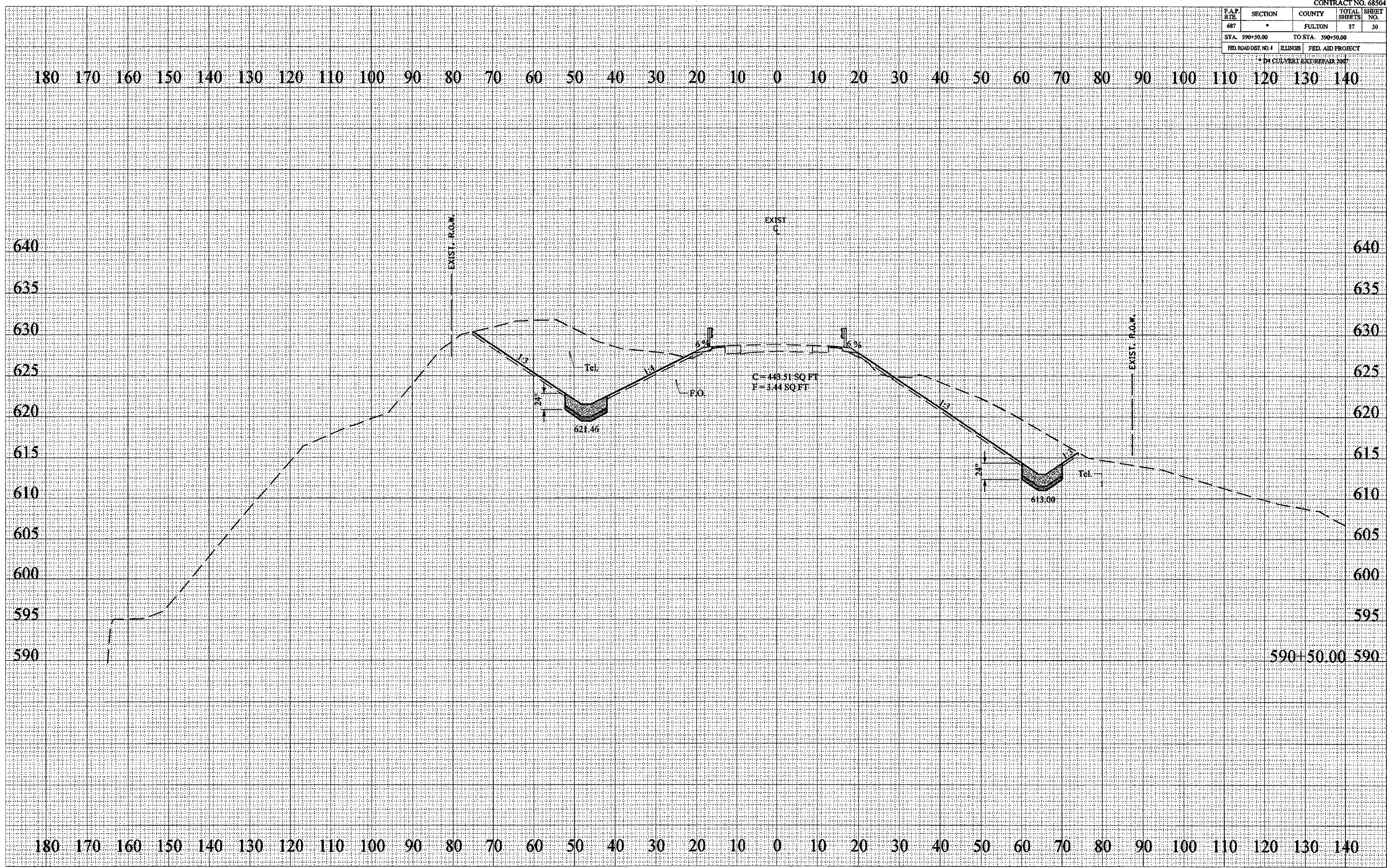


F.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	30
STA. 590+50.00		TO STA. 590+50.00		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	
* D1 CULVERT EXIST. REPAIR 2007				

FINAL SURVEY	BY	DATE
REMOVED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
REMOVED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.		

PLOT DATE - 6/19/2007
 FILE NAME - c:\project\68504\68504.dwg
 PLOT SCALE - 1"=40'
 REFERENCE - 68504



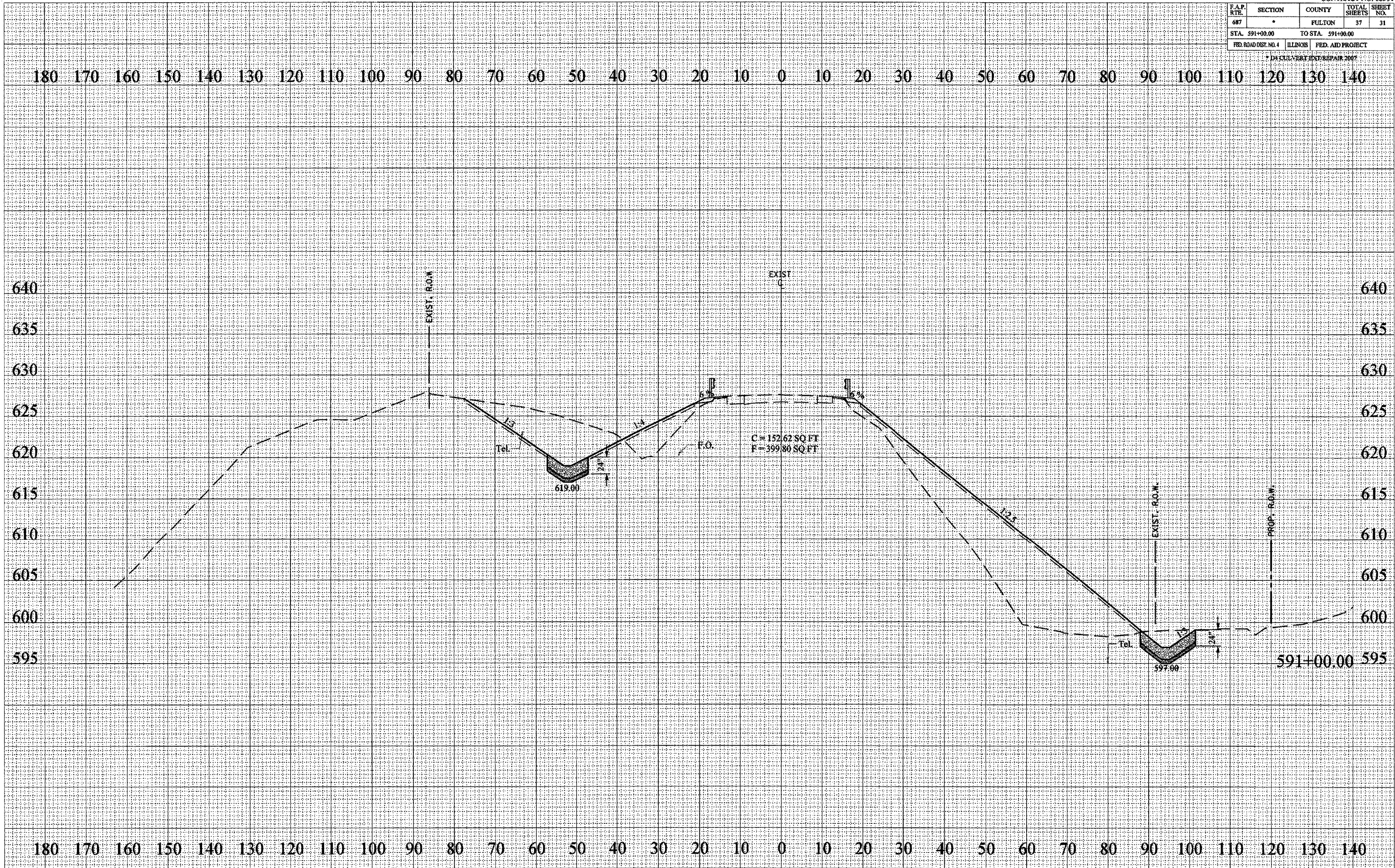
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	31
STA. 591+00.00		TO STA. 591+00.00		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 CULVERT EXT/REPAIR 2007

DATE	BY

DATE	BY

PLOT DATE - 4/10/2007
 FILE NAME - E:\project\68504\plan\plan.dwg
 PLOT SCALE - 1/8" = 1'-0"
 REFERENCE - 8487

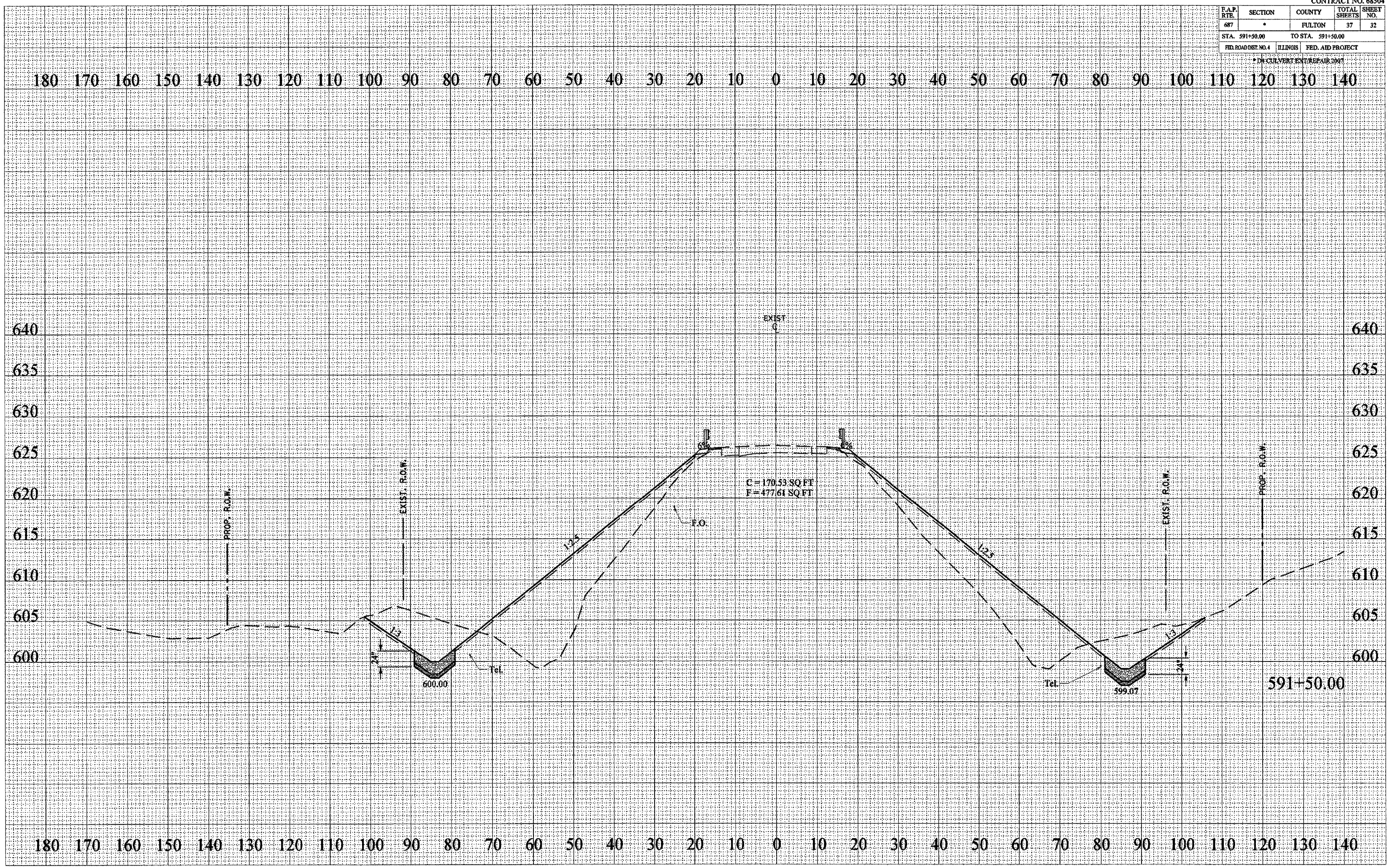


R.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	32
STA. 591+50.00		TO STA. 591+50.00		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		
* IN-CURVE EXT. REPAIR 2007				

DATE	
BY	
FINAL SURVEY	REVIEWED
NOTE BOOK NO.	PLOTTED
	TRIMMED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	REVIEWED
NOTE BOOK NO.	PLOTTED
	TRIMMED
	AREAS CHECKED

PLOT DATE - 4/19/2007
 FILE NAME - c:\pwork\68504\road\68504.dwg
 PLOT SCALE - 1" = 20'
 REFERENCE - 68504

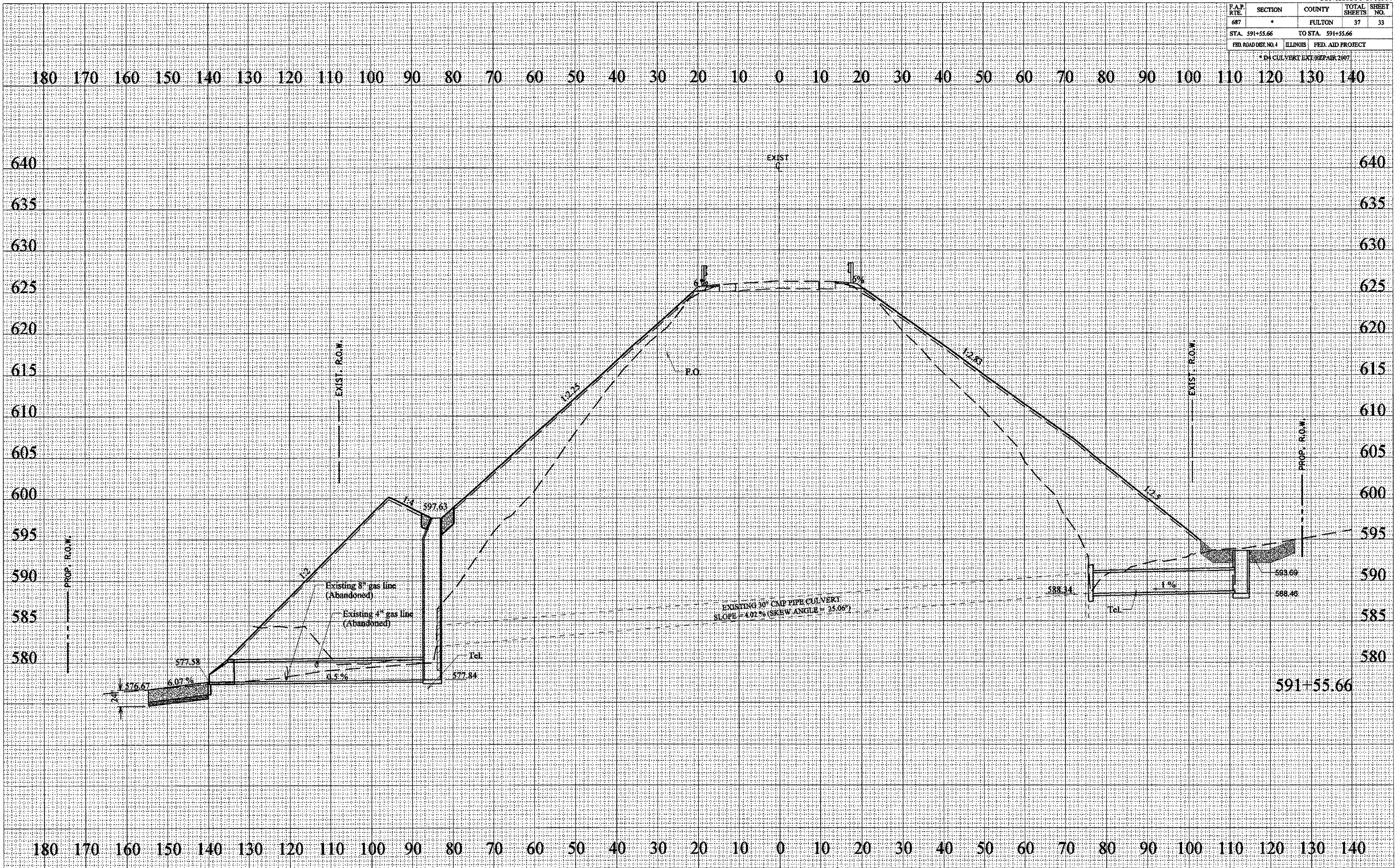


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	33

STA. 591+55.66 TO STA. 591+55.66

FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT

* 30" CULVERT EXT./REPAIR 2007



BY	DATE

FINAL SURVEY	REVIEWED	DATE

NO. BOOK	NO.

BY	DATE

ORIGINAL SURVEY	REVIEWED	DATE

NO. BOOK	NO.

PLOT DATE: 4/18/07
 PLOT SCALE: 1" = 20.00'
 REFERENCE: SHEETS

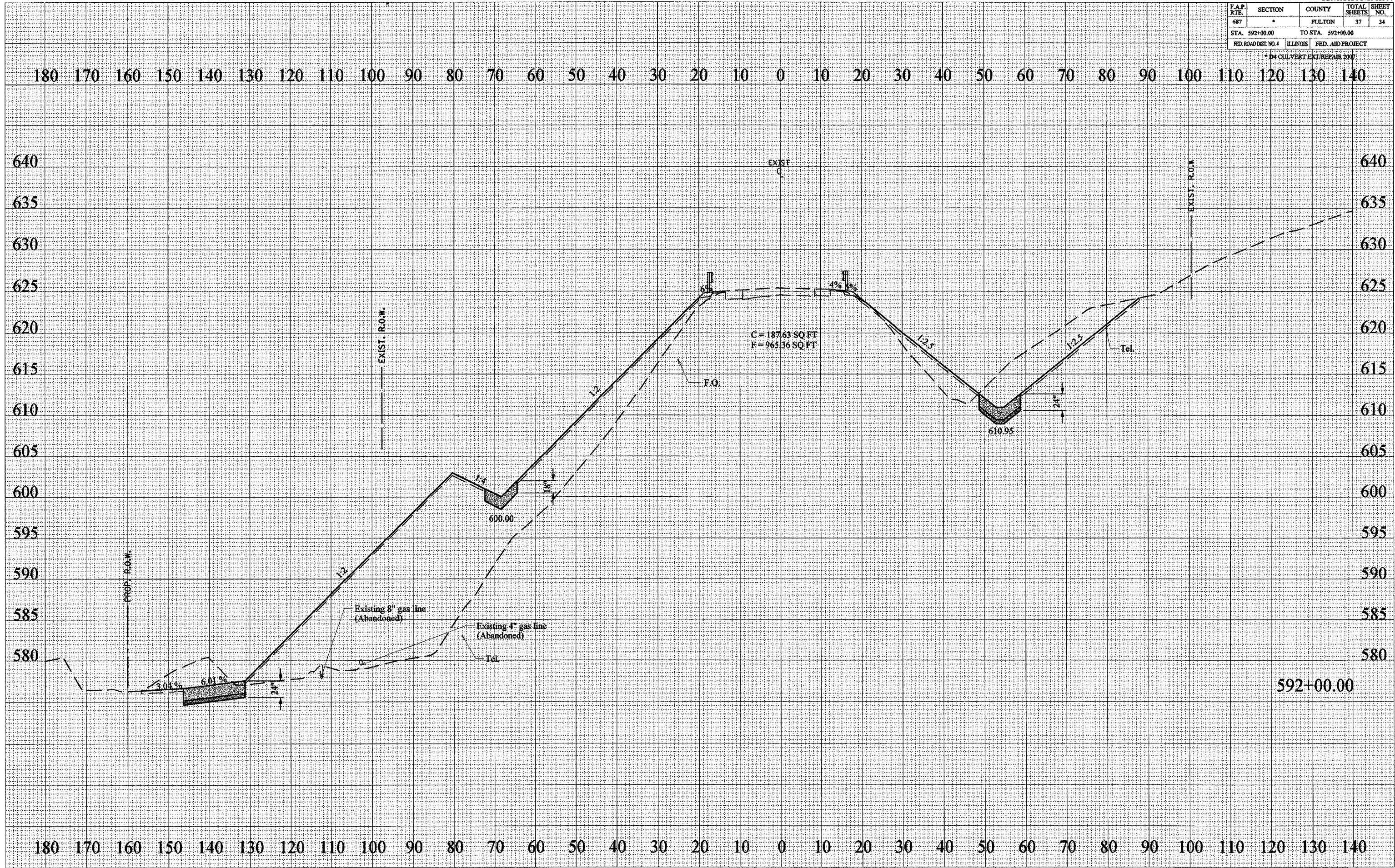
T.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	34
STA. 592+00.00		TO STA. 592+90.00		
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT

* D4 CULVERT EXT/REPAIR 2007

DATE	BY

DATE	BY

PLOT DATE: 4/18/2007
 FILE NAME: c:\pilot\68504\68504.dwg
 PLOT SCALE: 1" = 20'
 PLOT REFERENCE: 8025



F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	-	FULTON	37	35
STA. 592+50.00		TO STA. 592+50.00		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

*DC-CULVERT EXT/REPAIR-2007

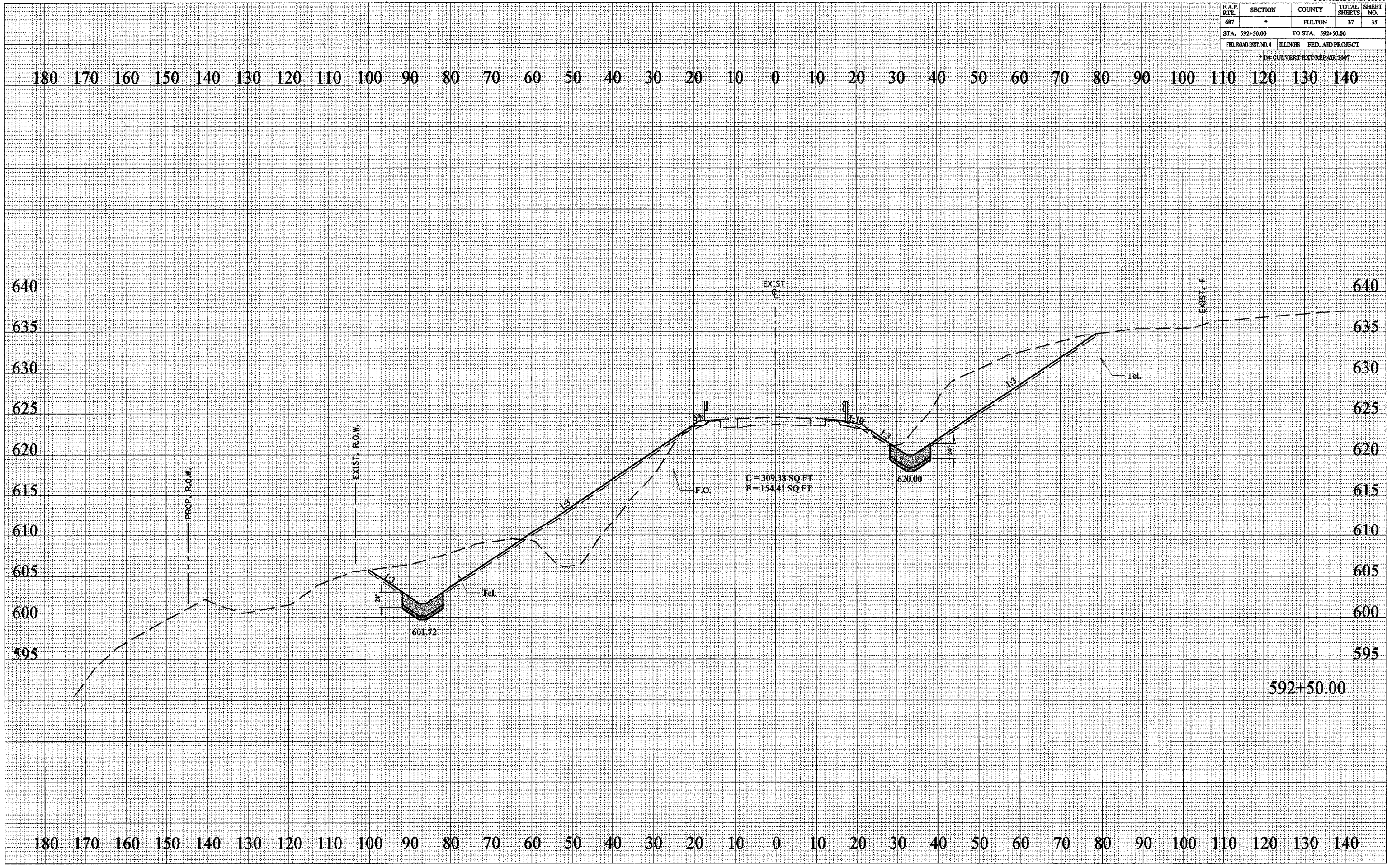
BY	DATE

FINAL SURVEY	DATE

BY	DATE

ORIGINAL SURVEY	DATE

PLOT DATE - 4/15/2007
FILE NAME - c:\projects\68504\68504.dwg
PLOT SCALE - 1" = 20'
REFERENCE -

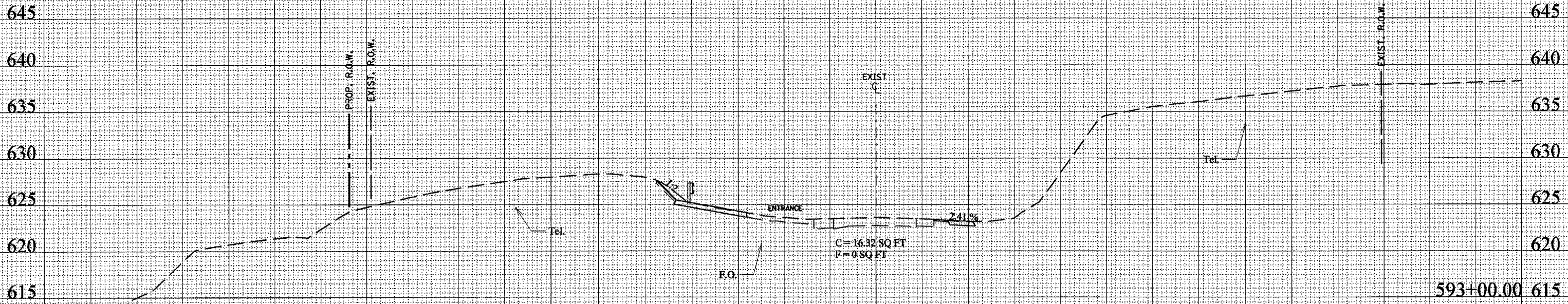


592+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	36
STA. 593+00.00		TO STA. 593+00.00		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

14" CULVERT EXIST/REPAIR 200'

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140



180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

DATE	BY

DATE	BY

PLOT DATE = 4/12/07
 FILE NAME = s:\projects\68504\68504.dwg
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = 68504

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	FULTON	37	37
STA. 593+50.00		TO STA. 593+50.00		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*DM CULVERT EXT/REPAIR 2007

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE - 4/19/07
 PLOT SCALE - 1"=20'
 REFERENCE - SEE

