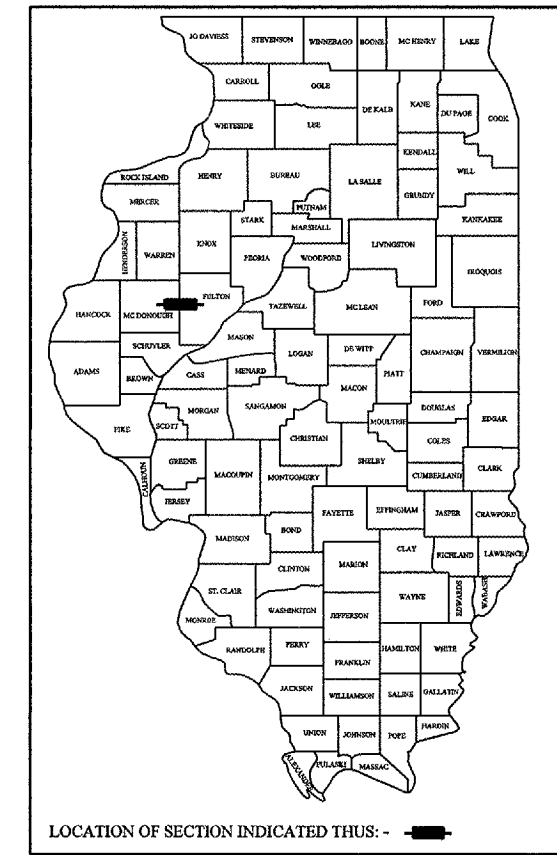


68382

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	1

\* D4 CULV EXT/REPAIR 2006

D-94-015-04



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**  
F.A.P. ROUTE 687 (IL. ROUTE 95)  
D4 CULV EXT/ REPAIR 2006  
McDONOUGH & FULTON COUNTIES  
C-94-023-04

INDEX OF SHEETS

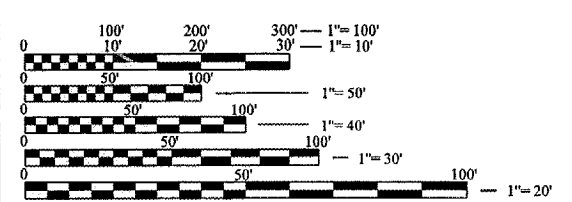
- 1. COVER SHEET
- 2. COMMITMENT & GENERAL NOTES
- 3. STATUS OF UTILITIES
- 4 - 5. SUMMARY OF QUANTITIES
- 6. TYPICAL SECTIONS
- 7 - 10. SCHEDULE OF QUANTITIES
- 11 - 19. EXISTING & PROPOSED PLAN SHEET
- 20 - 22. EROSION CONTROL PLANS
- 23 - 48. CROSS SECTIONS
- 49 - 58. CADD STANDARDS:
  - 205001-D4    542011-D4    635101-D4
  - 281001-D4    542016-D4
  - 542001-D4    630101-D4

LIST OF STANDARDS:

- 280001-02630001-05666001 702001-05
- 542301 630301-03701001-01
- 602401 631011-02701006-02
- 602701 635006-02701201-02
- 604001-02635011-02701301-02

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

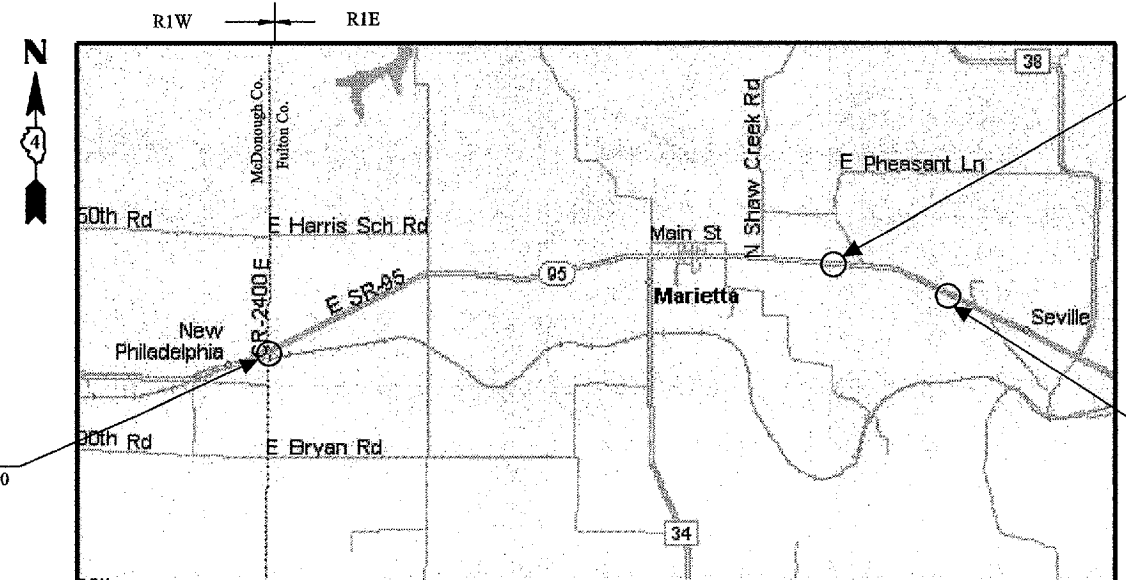
SCALES



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. 68382  
CATALOG NO. 032839-00D



LOCATION 1  
STA. 157+25 TO STA. 162+50

LOCATION 2  
STA. 349+50 TO STA. 354+00

LOCATION 3  
STA. 400+50 TO STA. 405+00

GROSS LENGTH OF SECTION = 24,775.00 FEET = 4.692 Mi  
NET LENGTH OF SECTION = 1,425.00 FEET = 0.270 Mi

N.P.D.E.S.  
REQUIRED

QC/QA  
BITUMINOUS

DESCRIPTION:

This improvement consist of the extention of three cross road culverts, slope repair, installation of guardrail and others related works.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED SEP 2, 2005

[Signature]  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14, 2005  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2005  
[Signature]  
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: M. ADDIS 309-671-3454

DESIGNER: LEONEL CRESPO 309-671-3459

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* D4 CULV EXT/ REPAIR 2006

**COMMITMENTS**

Commitments have been made to the following property owners:

Contact DAVID L. WALLER at (309) 926-6103 (home) or (309) 221-9011 (cell phone) prior to removing fence so the cattle may be relocated.

Contact JOHN SCHAUBLE at (309) 926-7931 or (309) 255-702 (cell phone) 30 days prior to removing fence so the cattle may be relocated.

If you have any question regarding these commitments, you may contact RHONDA SEARLE at (309) 671-3223

**DESIGN CRITERIA**

This project was designed in accordance with Chapter 38 of the BDE Manual, and the procedures, and Guidelines of the Culvert Design Manual.

**GENERAL NOTES**

**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.

**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.

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

All elevations shown on the plans are established from U. S. G. S. mean sea level datum.

**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.

**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.

**SEEDING - SIDESLOPE RIPPING**

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

SCALE: VERT.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006

**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 each culvert are listed in the following table.

Locations	Pavement Stamped Sta.	Plans Sta.
1	170+00	160+35
2	362+65	352+70
3	413+16	403+36

**BITUMINOUS CONCRETE MIXTURE REQUIREMENTS**

The following mixture requirements are applicable for this project:

MIXTURE USE(S)	BITUMINOUS SHOULDERS (Bottom Lift)	BITUMINOUS SHOULDERS (Top Lift)
AC/PG:	PG 64-22	PG 64-22
RAP% (MAX):	30%	30 %
DESIGN AIR VOIDS	4.0 @ N des 30	3.0 @ N des 30
MIXTURE COMPOSITION:	IL 19.0 L	IL 9.5 L
FRICITION AGGREGATE:	N/A	MIXTURE C

**STATUS OF UTILITIES**

**SPOON RIVER ELECTRIC**

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location 2	75' Rt.	351+50 to 353+68	Aerial Electric	Cut/ Culvert Ext.	Caution
Location 3	43' Rt.	402+57	Power Pole	Rip Rap	Relocated

**AmerenCIPS - Gas**

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location 3	23' Lt.	402+50 to 404+00	2" Gas Line	Earth Excavation	Relocated
Location 3	108' Rt.	403+00 to 404+00	Abandoned Gas Main	Culvert Extension	Relocated

**MID-CENTURY**

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location 3	50' Rt.	402+25 to 404+06	Buried Telephone	Earth Excavation	Relocated
Location 3	16' Rt. to 40' Rt.	404+49 to 404+65	Buried Telephone	Ditch Cut	Relocated

**McLeod USA**

ROUTE	OFFSET	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
Location 1	16' Lt.	159+00 to 161+90	Buried Fiber Optic	Proposed Guardrail	Relocated
Location 2	22' Lt.	351+50 to 353+25	Buried Fiber Optic	Earth Excavation	Relocated
Location 3	15' Rt.	401+00 to 404+75	Buried Fiber Optic	Proposed Guardrail	Relocated

REVISIONS	
NAME	DATE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULV EXT/ REPAIR 2006				

# SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	LOCATION 1 Y007 Mc Donough Co.	LOCATION 1 Y007 Fulton Co.	LOCATION 2 Y007 Fulton Co.	LOCATION 3 Y007 Fulton Co.
20100500	TREE REMOVAL, ACRES	ACRE	0.79	0.21		0.16	0.42
20101700	SUPPLEMENTAL WATERING	UNIT	15	5		5	5
20200100	EARTH EXCAVATION	CU YD	3,353	451	41	777	2,084
20400800	FURNISHED EXCAVATION	CU YD	1,952	374		248	1,330
21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	6,636	1,405	121	1,855	3,255
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	153	34	1.00	45	73
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	153	34	1.00	45	73
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	153	34	1.00	45	73
* 25001700	SEEDING, CLASS 3 (MODIFIED)	ACRE	1.7	0.38	0.01	0.50	0.81
25100115	MULCH, METHOD 2	ACRE	1.7	0.38	0.01	0.50	0.81
25101005	HEAVY DUTY EXCELSIOR BLANKET	SQ YD	5,297	888	120	1,760	2,529
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	510	114	3	150	243
28000300	TEMPORARY DITCH CHECKS	EACH	36	8		10	18
28000400	PERIMETER EROSION BARRIER	FOOT	392	206		186	
28100107	STONE RIPRAP, CLAS A4	SQ YD	98	14		30	54

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO.	ITEM	UNITS	TOTAL QUANTITY	LOCATION 1 Y007 Mc Donough Co.	LOCATION 1 Y007 Fulton Co.	LOCATION 2 Y007 Fulton Co.	LOCATION 3 Y007 Fulton Co.
28100125	STONE RIPRAP, CLAS B3	SQ YD	1328	245		410	673
28200200	FILTER FABRIC	SQ YD	98	14		30	54
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	676	206	41	187	242
50102400	CONCRETE REMOVAL	CU YD	3			1	2
50800105	REINFORCEMENT BARS	POUND	136	24		70	42
54002020	EXPANSION BOLTS 3/4 INCH	EACH	30	10		10	10
54201291	PIPE CULVERT, TYPE 2 RCCP 36"	FOOT	57	20		11	26
54202971	PIPE CULVERT, TYPE 4 RCCP 36"	FOOT	70			25	45
54213681	PRECAST REINF. CONC. FLARED END SECTIONS 36"	EACH	5	1		2	2
54248510	CONCRETE COLLAR	CU YD	5.3	1.8		1.4	2.1
60221100	MANHOLES, TYPE A, 5'- DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	1		1	1
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1,437.5	468.75	56.25	462.5	450
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3		1	1	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	8	2	1	3	2



# SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* D4 CULV EXT/ REPAIR 2006

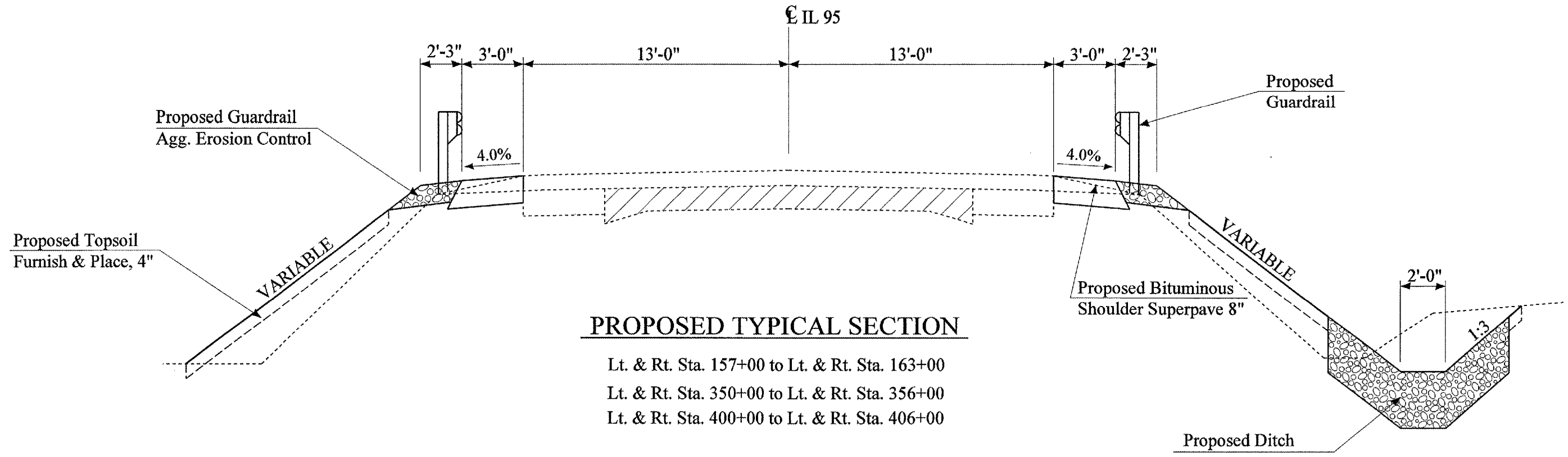
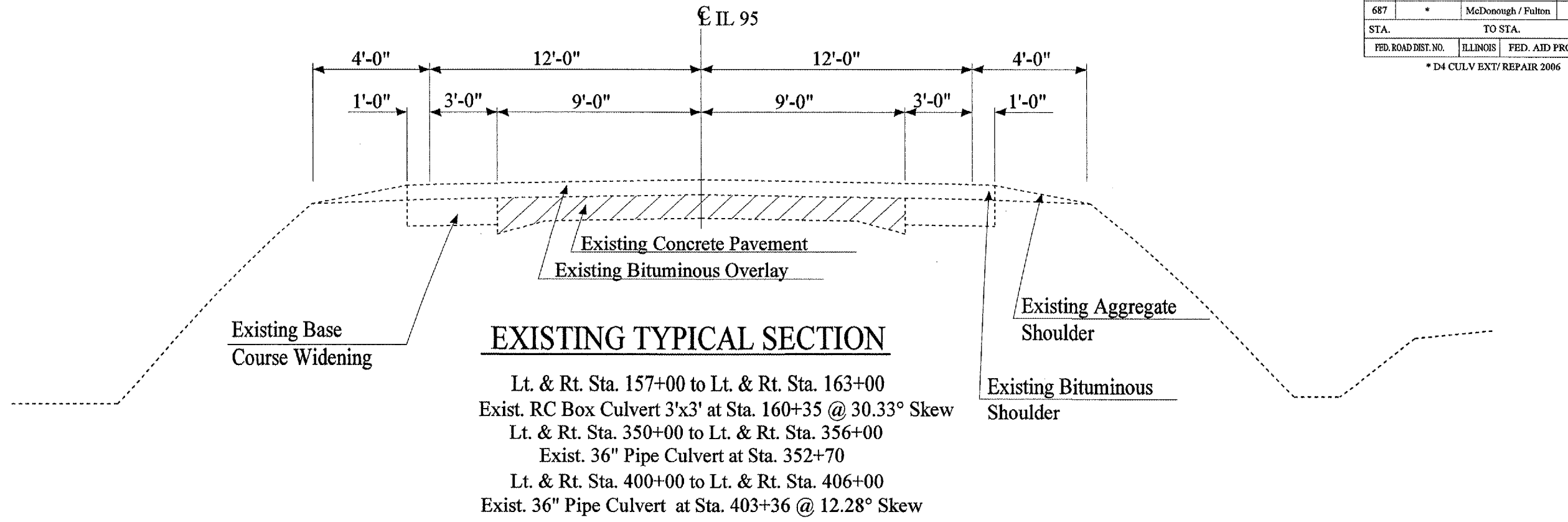
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
			TOTAL QUANTITY	LOCATION 1 Y007 Mc Donough Co.	LOCATION 1 Y007 Fulton Co.	LOCATION 2 Y007 Fulton Co.
CODE NO.	ITEM	UNITS				
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)	EACH	1			1
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	1,025	250		400
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	20	4		8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	0.5	0.5	1
67100100	MOBILIZATION	L. SUM	1	0.1	0.1	0.4
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L.SUM	1	0.1	0.1	0.4
78200410	GUARDRAIL MARKER TYPE A	EACH	19	5	2	6
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	2	2	4
* A2C005G3	TREE, ACER SACCHARIUM (SUGAR MAPLE) CONTAINER GROWN, 3-GALLON	EACH	20			10
* A2C022G3	TREE, CARYA ILINOENSIS (PECON) CONTAINER GROWN, 3-GALLON	EACH	24	6		8
* A2C025G3	TREE, CERCIS CANADENSIS (REDBUD) CONTAINER GROWN, 3-GALLON	EACH	30	5	5	10
* A2C049G3	TREE, QUERCUS ALBA (WHITE OAK) CONTAINER GROWN, 3-GALLON	EACH	14	4	4	6
* A2C050G3	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK) CONTAINER GROWN, 3-GALLON	EACH	10			10

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
			TOTAL QUANTITY	LOCATION 1 Y007 Mc Donough Co.	LOCATION 1 Y007 Fulton Co.	LOCATION 2 Y007 Fulton Co.
CODE NO.	ITEM	UNITS				
* A2C060G3	TREE, QUERCUS PALUSTRIS (PINK OAK) CONTAINER GROWN, 3-GALLON	EACH	18			10
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	217	68	19	59
X0348700	AGGREGATE DITCH CHECKS	EACH	31	7		8
Z0013798	CONSTRUCTION LAYOUT	L. SUM	1	0.2		0.4
Z0014700	CULVERT TO BE CLEANED	EACH	5	1		2
* A2L015G3	TREE, BETULA NIGRA (RIVER BIRCH), CONTAINER GROWN, 3-GALLON	EACH	10			10
* A2L032G3	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), CONTAINER GROWN, 3-GALLON	EACH	20			10
* A2L036G3	TREE, LIRIODENDRON TULIPIFERA (TULIP TREE), CONTAINER GROWN, 3-GALLON	EACH	22	6		10
* A2L056G3	TREE, QUERCUS MACROCARPA (BUR OAK), CONTAINER GROWN, 3-GALLON	EACH	16	8		8
X0325155	REMOVE ABANDONED GAS MAIN	FOOT	96			96

\* SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006



LOCATION NO. 1,2 & 3  
 TYPICAL SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* D4 CULV EXT/ REPAIR 2006

# SCHEDULE OF QUANTITIES

CODE NO. 20100500

TREE REMOVAL, ACRES	
LOCATION 1	ACRE
Lt Sta. 159+00 to 161+00	0.21
LOCATION 2	
Lt. Sta. 351+60 to 353+25	0.13
Rt. Sta. 352+25 to 353+45	0.03
LOCATION 3	
Lt. Sta. 402+00 to 404+00	0.31
Rt. Sta. 402+80 to 404+25	0.11
<b>TOTAL = 0.79</b>	

CODE NO. 20101700

SUPPLEMENTAL WATERING	
LOCATION 1	UNIT
Lt Sta. 159+00 to 161+00	5
LOCATION 2	
Lt. Sta. 351+60 to 353+25	4
Rt. Sta. 352+25 to 353+45	1
LOCATION 3	
Lt. Sta. 402+00 to 404+00	3
Rt. Sta. 402+80 to 404+25	2
<b>TOTAL = 15</b>	

1 UNIT = 1,000 GAL

CODE NO.	20200100	20400800	21101615
	EARTH EXCAVATION	FURNISHED EXCAVATION	F & P TOPSOIL, 4"
	CU YD	CU YD	SQ YD
LOCATION 1			
STA. 157+00 TO 161+00	451.00	374.00	1,405.00
STA. 161+00 TO 163+00	41.00		121.00
LOCATION 2			
STA. 349+50 TO 353+50	777.00	248.00	1,855.00
LOCATION 3			
STA. 400+50 TO 405+00	2,084.00	1,330.00	3,255.00
<b>TOTAL</b>		<b>3,353</b>	<b>1,952</b>
		<b>1,952</b>	<b>6,636</b>

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 1						
Lt Sta. 157+00 to Sta.162+50	96	0.38	0.38	34	34	34
Rt Sta. 158+00 to Sta. 161+00	21	0.01	0.01	1	1	1
LOCATION 2						
Lt. Sta. 350+50 to Sta. 353+50	57	0.19	0.19	17	17	17
Rt. Sta. 349+50 to Sta. 353+50	93	0.31	0.31	28	28	28
LOCATION 3						
Lt. Sta. 401+00 to Sta. 404+25	105	0.35	0.35	32	32	32
Rt. Sta. 400+50 to Sta. 404+50	138	0.46	0.46	41	41	41
<b>TOTAL =</b>		<b>510</b>	<b>1.70</b>	<b>1.70</b>	<b>153</b>	<b>153</b>

\* 3 Applications

CODE NO. 25101005

HEAVY DUTY EXCELSIOR BLANKET	
	SQ YD
LOCATION 1	
Lt Sta. 159+00 to Sta.160+50	888
Lt Sta. 160+00 to Sta. 161+00	120
LOCATION 2	
Lt. Sta. 351+50 to Sta. 353+25	656
Rt. Sta. 351+50 to Sta. 353+50	1,104
LOCATION 3	
Lt. Sta. 402+25 to Sta. 403+90	980
Rt. Sta. 402+00 to Sta. 404+25	1,549
<b>TOTAL = 5,297</b>	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXI/ REPAIR 2006

# SCHEDULE OF QUANTITIES

CODE NO.28000300

TEMPORARY DITCH CHECK		
LOCATION 1	Spacing	UNIT EACH
Lt. Sta. 158+50 to Sta. 160+00	50 ft	3
Lt. Sta. 160+18 to Sta. 160+92	25 ft	4
Lt. Sta. 159+90, 104 ft		1
LOCATION 2		
Lt. Sta. 351+50 to Sta. 352+32	25 ft	4
Rt. Sta. 351+00 to Sta. 352+43	50 ft	4
Lt. Sta. 352+66, 88 ft		1
Rt. Sta. 352+79, 116 ft		1
LOCATION 3		
Lt. Sta. 402+00 to Sta. 403+00	50 ft	3
Lt. Sta. 403+50 to Sta. 403+80	25 ft	3
Rt. Sta. 401+50 to Sta. 403+55	50 ft	6
Rt. Sta. 403+78 to Sta. 404+25	25 ft	4
Lt. Sta. 403+35, 110 ft		1
Rt. Sta. 403+67, 146 ft		1
<b>TOTAL = 36</b>		

CODE NO.28000400

PERIMETER EROSION BARRIER	
LOCATION 1	UNIT FOOT
Lt. Sta. 157+50 to Sta. 158+00	50
Rt. Sta. 158+50 to Sta. 160+77	156
LOCATION 2	
Lt. Sta. 352+80 to Sta. 353+18	66
Rt. Sta. 352+80 to Sta. 353+50	120
<b>TOTAL = 392</b>	

CODE NO.28100107

STONE RIPRAP, CLASS A4	
LOCATION 1	UNIT SQ YD
Lt. Sta. 160+00	14
LOCATION 2	
Lt. Sta. 352+70	11
Rt. Sta. 352+70	19
LOCATION 3	
Lt. Sta. 403+28	42
Rt. Sta. 403+61	12
<b>TOTAL = 98</b>	

CODE NO.28100125

STONE RIPRAP, CLASS B3	
LOCATION 1	UNIT SQ YD
Lt. Sta. 158+68.70 to Sta. 159+87.85	126
Lt. Sta. 160+00 to Sta. 161+00	119
LOCATION 2	
Lt. Sta. 352+00 to Sta. 352+70	143
Rt. Sta. 350+90 to Sta. 352+70	267
LOCATION 3	
Lt. Sta. 401+75 to Sta. 403+28	184
Lt. Sta. 403+28 to Sta. 403+88	87
Rt. Sta. 401+25 to Sta. 403+61	308
Rt. Sta. 403+61 to Sta. 404+37.5	94
<b>TOTAL = 1,328</b>	

CODE NO.28200200

FILTER FABRIC	
LOCATION 1	UNIT SQ YD
Lt. Sta. 160+00	14
LOCATION 2	
Lt. Sta. 352+70	11
Rt. Sta. 352+70	19
LOCATION 3	
Lt. Sta. 403+28	42
Rt. Sta. 404+61	12
<b>TOTAL = 98</b>	

CODE NO.63000000

STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION 1	UNIT FOOT
Lt. Sta. 158+12.31 to Sta. 161+37.31	325
Rt. Sta. 159+00 to Sta. 160+95	200
LOCATION 2	
Lt. Sta. 351+62.5 to Sta. 353+21.7	162.5
Rt. Sta. 350+50 to Sta. 353+50	300
LOCATION 3	
Lt. Sta. 402+12.75 to Sta. 404+08	200
Rt. Sta. 401+50 to Sta. 404+00	250
<b>TOTAL = 1,437.5</b>	

CODE NO.48202600

BITUMINOUS SHOULDERS SUPERPAVE 8"	
LOCATION 1	UNIT SQ YD
Lt. Sta. 157+30.65 to Sta. 162+22.31	164
Rt. Sta. 158+12.72 to Sta. 160+62.5	83
LOCATION 2	
Lt. Sta. 350+78 to Sta. 352+90	71
Rt. Sta. 349+66 to Sta. 353+12.5	116
LOCATION 3	
Lt. Sta. 401+29 to Sta. 404+45	105
Rt. Sta. 400+66 to Sta. 404+75.71	137
<b>TOTAL = 676</b>	

CODE NO.63100045

TRAFFIC BARRIER TERMINAL, TYPE 2	
LOCATION 1	UNIT EACH
Rt. Sta. 160+95 to Sta. 161+00	1
LOCATION 2	
Lt. Sta. 353+21.7 to Sta. 353+30.5	1
LOCATION 3	
Lt. Sta. 404+08 to Sta. 404+13	1
<b>TOTAL = 3</b>	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* D4 CULV EXT/REPAIR 2006

# SCHEDULE OF QUANTITIES

CODE NO.	50102400	50800105	54002020	54201291	54202971	54213681	54248510	60221100
	CONCRETE REMOVAL	REINFORCEMENT BARS	EXPANSION BOLTS 3/4 INCH	PIPE CULVERT TYPE 2 RCCP 36"	PIPE CULVERT TYPE 4 RCCP 36"	PRECAST REINF. CONC. FLARED END SECTION 36"	CONCRETE COLLAR	MANHOLES TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
	CU YD	LBS	EACH	FOOT	FOOT	EACH	CU YD	EACH
<b>LOCATION 1</b>								
	Lt. Sta. 160+35	24	10	20		1	1.8	1
<b>LOCATION 2</b>								
	Lt. Sta. 352+70		10	11		1	0.5	
	Rt. Sta. 352+70	1	45		25	1	0.9	1
<b>LOCATION 3</b>								
	Lt. Sta. 403+36		10	26		1	2.1	
	Rt. Sta. 403+36	2			45	1		1
	<b>TOTAL =</b>	<b>3</b>	<b>136</b>	<b>30</b>	<b>57</b>	<b>70</b>	<b>5.3</b>	<b>3</b>

CODE NO.66600105

FURNISHING AND ERECTING RIGHT OF WAY MARKERS		UNIT EACH
<b>LOCATION 1</b>		
	Sta.158+75, 40' Lt	1
	Sta.159+75, 110' Lt	1
	Sta. 160+25, 110' Lt	1
	Sta. 161+00, 40' Lt	1
<b>LOCATION 2</b>		
	Sta. 351+75, 75' Lt	1
	Sta. 352+25, 110' Lt	1
	Sta. 353+00, 110' Lt	1
	Sta. 353+25, 75' Lt	1
	Sta. 351+50, 75' Rt	1
	Sta. 352+50, 130' Rt	1
	Sta. 353+00, 130' Rt	1
	Sta. 353+68.72, 75' Rt	1
<b>LOCATION 3</b>		
	Sta. 401+30, 40' Lt	1
	Sta.403+00, 130' Lt	1
	Sta. 403+50, 130' Lt	1
	Sta. 403+75, 93' Lt	1
	Sta. 402+90, 78' Rt	1
	Sta. 403+50, 150' Rt	1
	Sta. 403+75, 105' Rt	1
	Sta. 404+25, 83' Rt	1
	<b>TOTAL = 20</b>	

CODE NO.63100167

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)		UNIT EACH
<b>LOCATION 1</b>		
	Lt. Sta. 157+62.31 to Sta. 158+12.31	1
	Lt. Sta. 161+37.31 to Sta. 161+87.31	1
	Rt. Sta. 158+50 to Sta. 159+00	1
<b>LOCATION 2</b>		
	Lt. Sta. 351+12.5 to Sta. 351+62.5	1
	Rt. Sta. 350+00 to Sta. 350+50	1
	Rt. Sta. 353+50 to Sta. 354+00	1
<b>LOCATION 3</b>		
	Lt. Sta. 401+62.75 to Sta. 402+12.75	1
	Rt. Sta. 401+00 to Sta. 401+50	1
	<b>TOTAL = 8</b>	

CODE NO.67000400

ENGINEER'S FIELD OFFICE, TYPE A		UNIT CAL MO
<b>LOCATION</b>		
	JOBSITE	3
	<b>TOTAL = 3</b>	

CODE NO.67100100

MOBILIZATION		UNIT L SUM
<b>LOCATION</b>		
	JOBSITE	1
	<b>TOTAL = 1</b>	

CODE NO.66502300

WOVEN WIRE FENCE REMOVAL		UNIT FOOT
<b>LOCATION 1</b>		
	Sta.158+50 to Sta. 161+00	250
<b>LOCATION 2</b>		
	Lt. Sta. 351+75 to Sta. 353+25	150
	Rt. Sta. 351+50 to Sta. 353+75	225
<b>LOCATION 3</b>		
	Lt Sta. 401+30 to Sta. 403+75	252
	Lt. Sta. 402+11 to Sta. 402+22	13
	Rt. Sta. 402+90 to Sta. 404+25	135
	<b>TOTAL = 1,025</b>	

CODE NO.78200410

GUARDRAIL MARKER TYPE A		UNIT EACH
<b>LOCATION 1</b>		
	Lt. Sta. 158+12.31 to Sta. 161+37.31	4
	Rt. Sta. 159+00 to Sta. 160+95	3
<b>LOCATION 2</b>		
	Lt. Sta. 351+62.5 to Sta. 353+21.7	2
	Rt. Sta. 350+50 to Sta. 353+50	4
<b>LOCATION 3</b>		
	Lt. Sta. 402+12.75 to Sta. 404+08	3
	Rt. Sta. 401+50 to Sta. 404+00	3
	<b>TOTAL = 19</b>	

CODE NO.63100169

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)		UNIT EACH
<b>LOCATION 3</b>		
	Rt. Sta. 404+00 to Sta. 404+50	1
	<b>TOTAL = 1</b>	

CODE NO.70100450

TRAFFIC CONTROL AND PROTECTION STANDARD 701201		UNIT L.SUM
<b>LOCATION 1</b>		
	Sta.157+00 to Sta. 162+50	0.2
<b>LOCATION 2</b>		
	Sta. 349+50 to Sta. 353+50	0.4
<b>LOCATION 3</b>		
	Sta. 400+50 to Sta. 405+00	0.4
	<b>TOTAL = 1.0</b>	

# SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	•	McDonough / Fulton	58	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* D4 CULV EXT/ REPAIR 2006

CODE NO. 78201000

TERMINAR MARKER - DIRECT APPLIED	
LOCATION 1	UNIT EACH
Lt. Sta. 157+62.31 to Sta. 158+12.31	1
Lt. Sta. 161+37.31 to Sta. 161+87.31	1
Rt. Sta. 158+50 to Sta. 159+00	1
Rt. Sta. 160+95 to Sta. 161+00	1
LOCATION 2	
Lt. Sta. 351+12.5 to Sta. 351+62.5	1
Lt. Sta. 353+21.7 to Sta. 353+30.5	1
Rt. Sta. 350+00 to Sta. 350+50	1
Rt. Sta. 353+50 to Sta. 354+00	1
LOCATION 3	
Lt. Sta. 401+62.75 to Sta. 402+12.75	1
Lt. Sta. 404+08 to Sta. 404+13	1
Rt. Sta. 401+00 to Sta. 401+50	1
Rt. Sta. 404+00 to Sta. 404+50	1
<b>TOTAL = 12</b>	

CODE NO. X0348700

AGGREGATE DITCH CHECK		
LOCATION 1	Spacing	UNIT EACH
Lt. Sta. 158+50 to Sta. 160+00	50 ft	3
Lt. Sta. 160+18 to Sta. 160+92	25 ft	4
LOCATION 2		
Lt. Sta. 351+50 to Sta. 352+32	25 ft	4
Rt. Sta. 351+00 to Sta. 352+43	50 ft	4
LOCATION 3		
Lt. Sta. 402+00 to Sta. 403+00	50 ft	3
Lt. Sta. 403+50 to Sta. 403+80	25 ft	3
Rt. Sta. 401+50 to Sta. 403+55	50 ft	6
Rt. Sta. 403+78 to Sta. 404+25	25 ft	4
<b>TOTAL = 31</b>		

CODE NO. X0301512

GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION 1	UNIT TON
Lt. Sta. 157+30.65 to Sta. 162+22.31	47
Rt. Sta. 158+12.72 to Sta. 161+12.5	40
LOCATION 2	
Lt. Sta. 350+78 to Sta. 353+05	22
Rt. Sta. 349+66 to Sta. 353+50	37
LOCATION 3	
Lt. Sta. 401+29 to Sta. 404+18	33
Rt. Sta. 400+66 to Sta. 404+75.71	38
<b>TOTAL = 217</b>	

CODE NO. Z0013798

CONSTRUCTION LAYOUT	
LOCATION	UNIT L SUM
JOBSITE	1
<b>TOTAL = 1</b>	

CODE NO. #4001649

REMOVE ABANDONED GAS MAIN	
LOCATION	UNIT FOOT
Rt. Sta. 403+13 to 404+09	96
<b>TOTAL = 96</b>	

CODE NO. Z0014700

CULVERT TO BE CLEANED	
LOCATION 1	UNIT EACH
Lt. Sta. 160+00	1
LOCATION 2	
Lt. Sta. 352+70	1
Rt. Sta. 352+70	1
LOCATION 3	
Lt. Sta. 403+28	1
Rt. Sta. 403+61	1
<b>TOTAL = 5</b>	

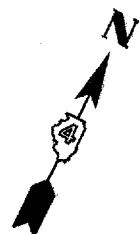
PAY ITEM #	DESCRIPTION	UNIT	LOCATION 1	LOCATION 2	LOCATION 3	TOTAL
A2C005G3	TREE, ACER SACCHARIUM (SUGAR MAPLE), CONTAINER GROWN, 3 - GALLON	EACH		10	10	20
#4001630	TREE, BETULA NIGRA (RIVER BIRCH), CONTAINER GROWN, 3 - GALLON	EACH			10	10
A2C022G3	TREE, CARYA ILINOENSIS (PECON), CONTAINER GROWN, 3 - GALLON	EACH	6	10	8	24
#4001631	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), CONTAINER GROWN, 3 - GALLON	EACH		10	10	20
#4001632	TREE, LIRIODENDRO TULIPIFERA (TULIP TREE), CONTAINER GROWN, 3 - GALLON	EACH	6	10	6	22
A2C049G3	TREE, QUERCUS ALBA ( WHITE OAK), CONTAINER GROWN, 3 - GALLON	EACH	8		6	14
A2C050G3	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 3 - GALLON	EACH			10	10
#4001633	TREE, QUERCUS MACROCARPA (BUR OAK); CONTAINER GROWN, 3 - GALLON	EACH	8	8		16
A2C060G3	TREE, QUERCUS PALASTRIS (PINK OAK), CONTAINER GROWN, 3 - GALLON	EACH		10	8	18
A2C025G3	TREE, CERCIS CANADENSIS (EASTERN REDBUD), CONTAINER GROWN, 3 - GALLON	EACH	10	10	10	30



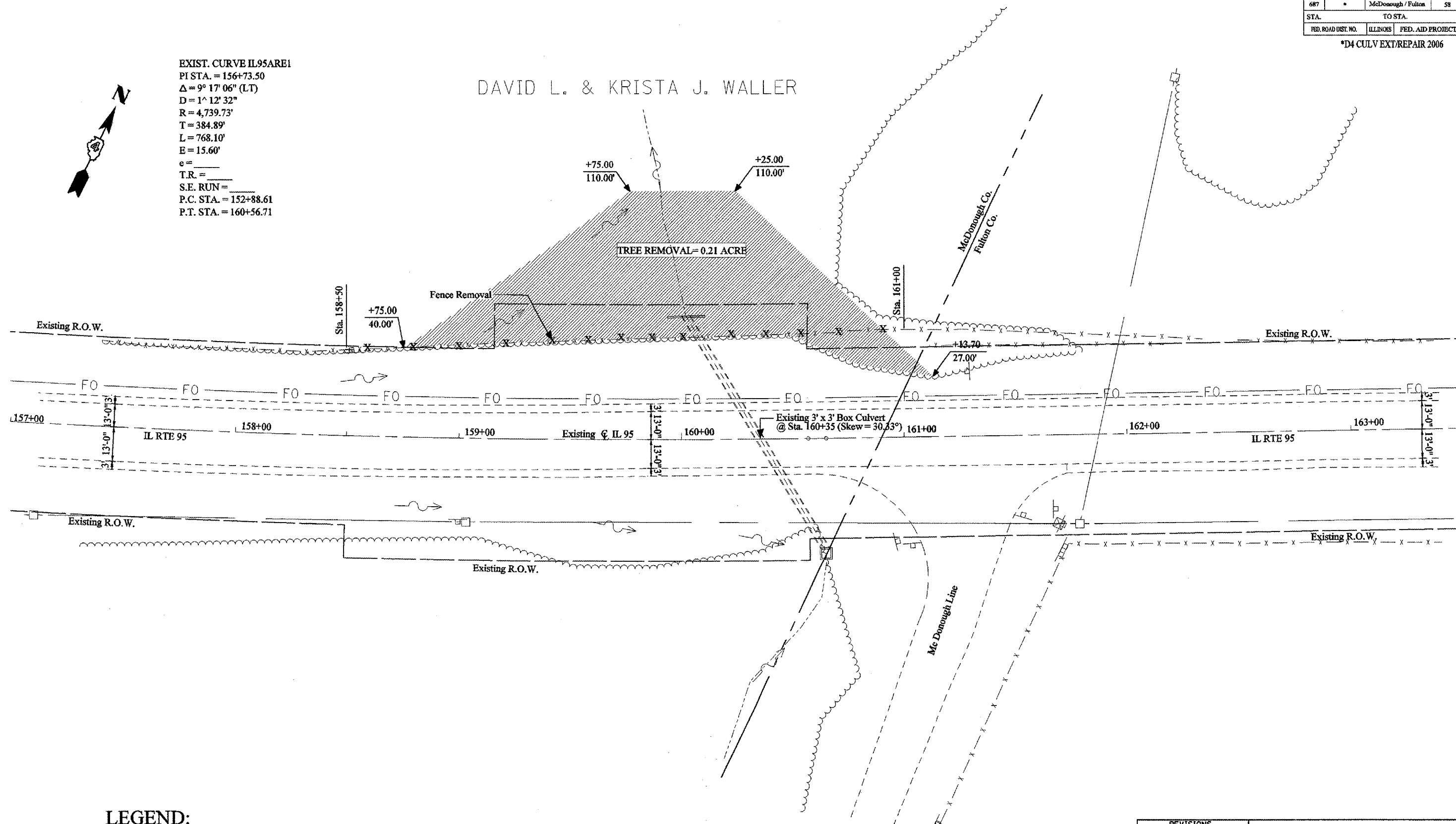
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\*D4 CULV EXT/REPAIR 2006

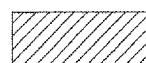
EXIST. CURVE IL95ARE1  
 PI STA. = 156+73.50  
 $\Delta = 9^\circ 17' 06''$  (LT)  
 $D = 1^\circ 12' 32''$   
 $R = 4,739.73'$   
 $T = 384.89'$   
 $L = 768.10'$   
 $E = 15.60'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 152+88.61$   
 $P.T. STA. = 160+56.71$



DAVID L. & KRISTA J. WALLER



LEGEND:



TREE REMOVAL AREA

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Existing and Removal Plans  
 Location # 1

SCALE: VERT.  
 HORIZ.  
 DATE

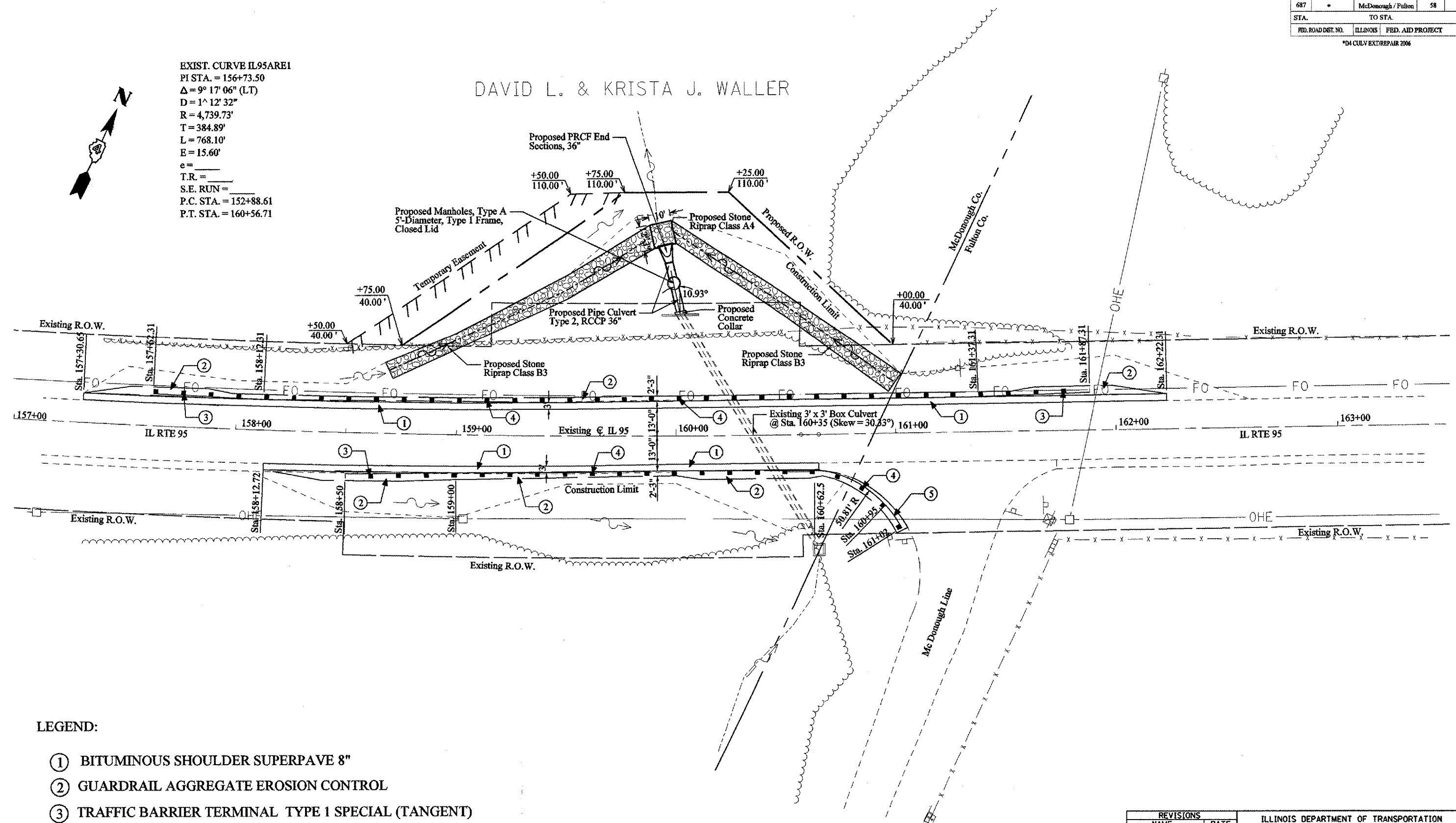
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*D4 CULV EXT/REPAIR 2006

EXIST. CURVE IL95ARE1  
 P.I. STA. = 156+73.50  
 $\Delta = 9^\circ 17' 06''$  (LT)  
 $D = 1^\circ 12' 32''$   
 $R = 4,739.73'$   
 $T = 384.89'$   
 $L = 768.10'$   
 $E = 15.60'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 P.C. STA. = 152+88.61  
 P.T. STA. = 160+56.71

DAVID L. & KRISTA J. WALLER



LEGEND:

- ① BITUMINOUS SHOULDER SUPERPAVE 8"
- 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 LOCATION #1

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

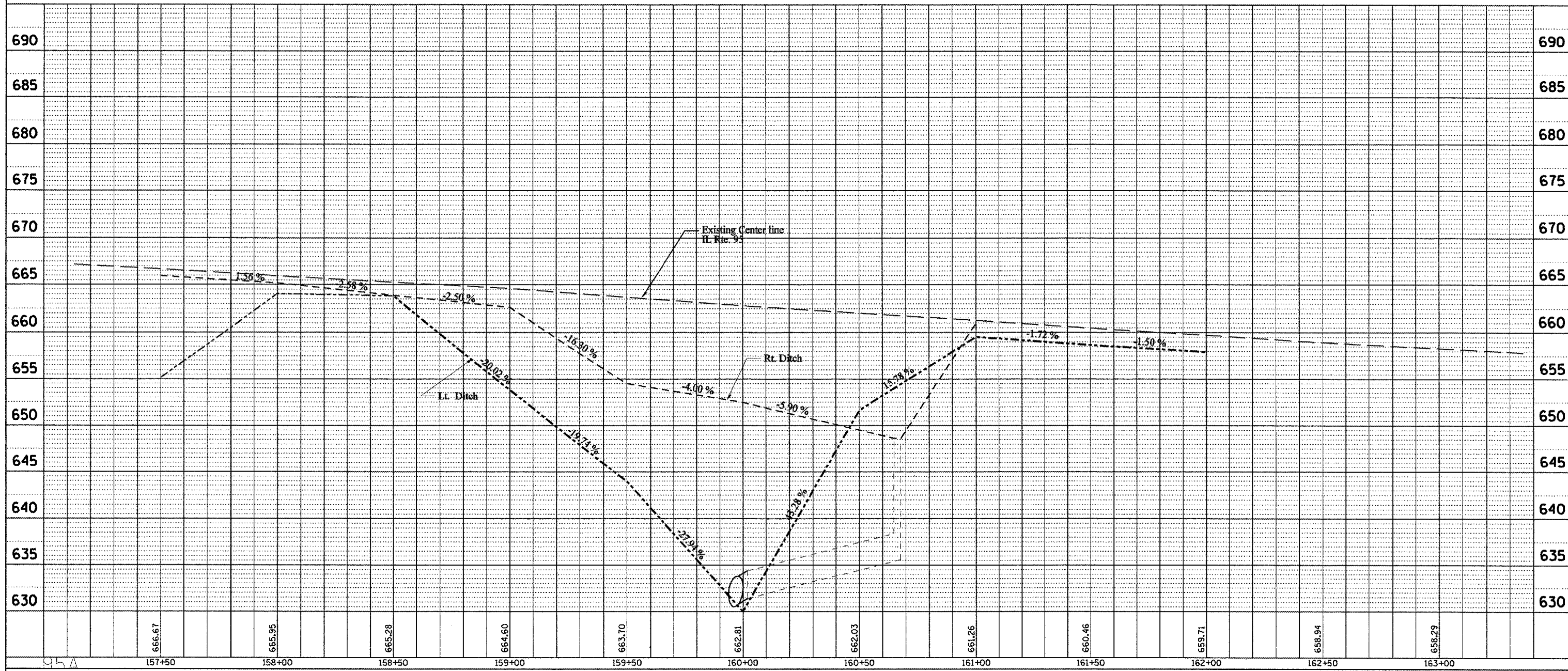
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 CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*D4 CULV EXT/REPAIR 2006

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
NOTE BOOK NO.	FILE NAME		

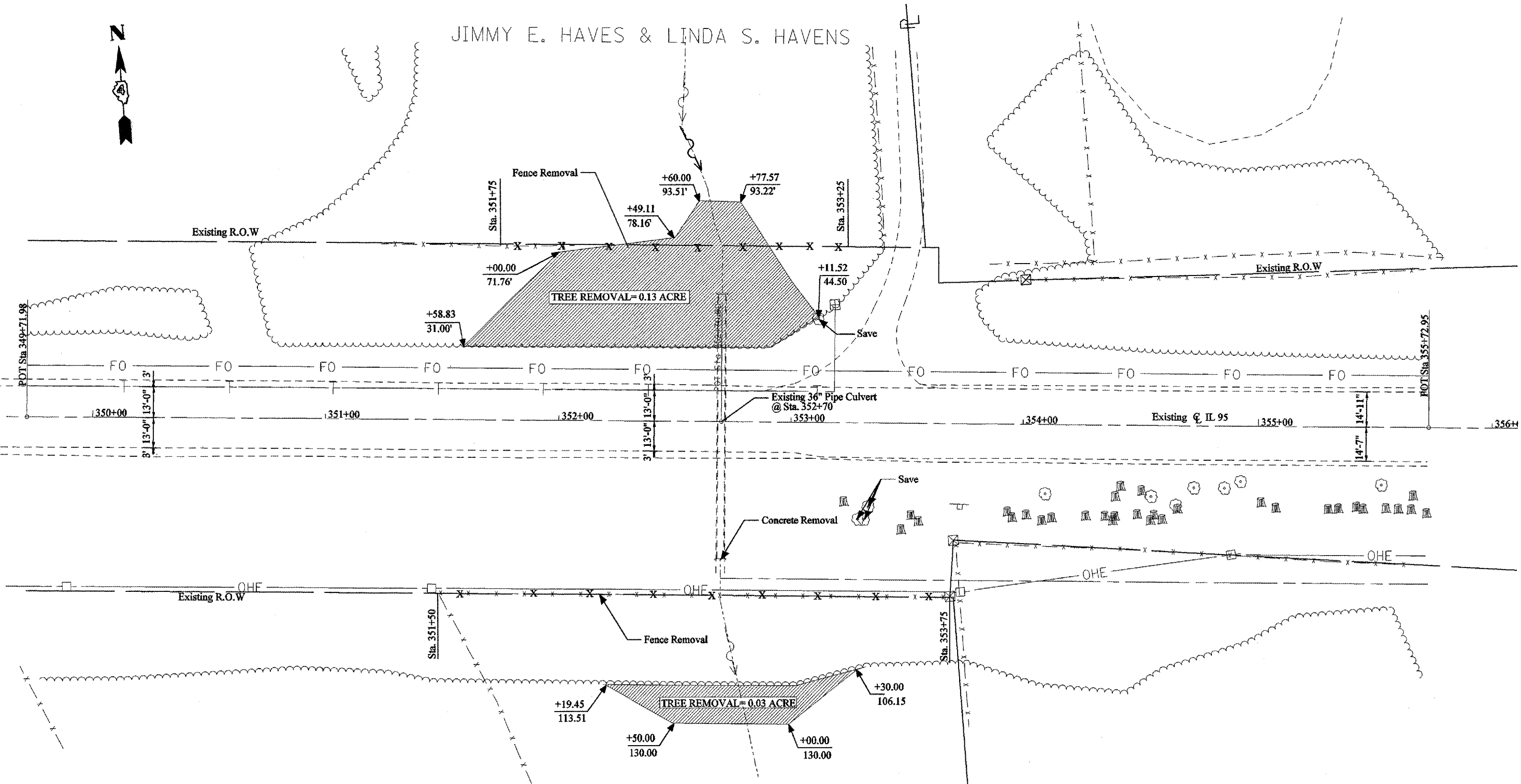
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
NOTE BOOK NO.	FILE NAME		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*D4 CULV EXT/REPAIR 2006				



JIMMY E. HAVES & LINDA S. HAVENS



**LEGEND:**

**TREE REMOVAL AREA**

WILLIAM WRIGHT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### Existing and Removal Plans Location # 2

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_

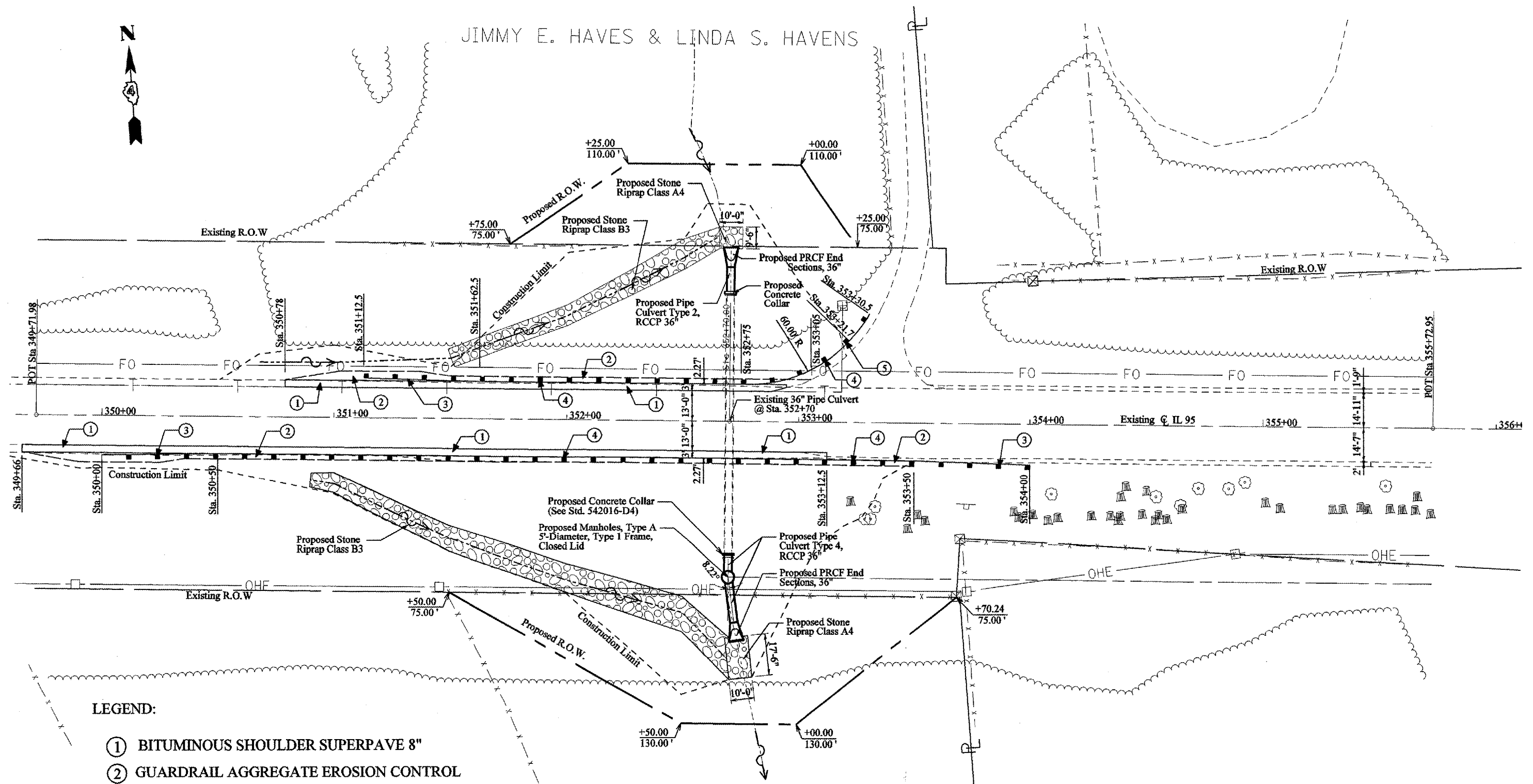
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CHECKED BY ENE

PLOT DATE = 8/29/2006  
 PLOT SCALE = 40' = 1" / 1600'  
 USER NAME = cncapple

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	15
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*D4 CULV. EXT. REPAIR 2006				



JIMMY E. HAVES & LINDA S. HAVENS



LEGEND:

- ① BITUMINOUS SHOULDER SUPERPAVE 8"
- 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)

WILLIAM WRIGHT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED PLANS**  
**LOCATION #2**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

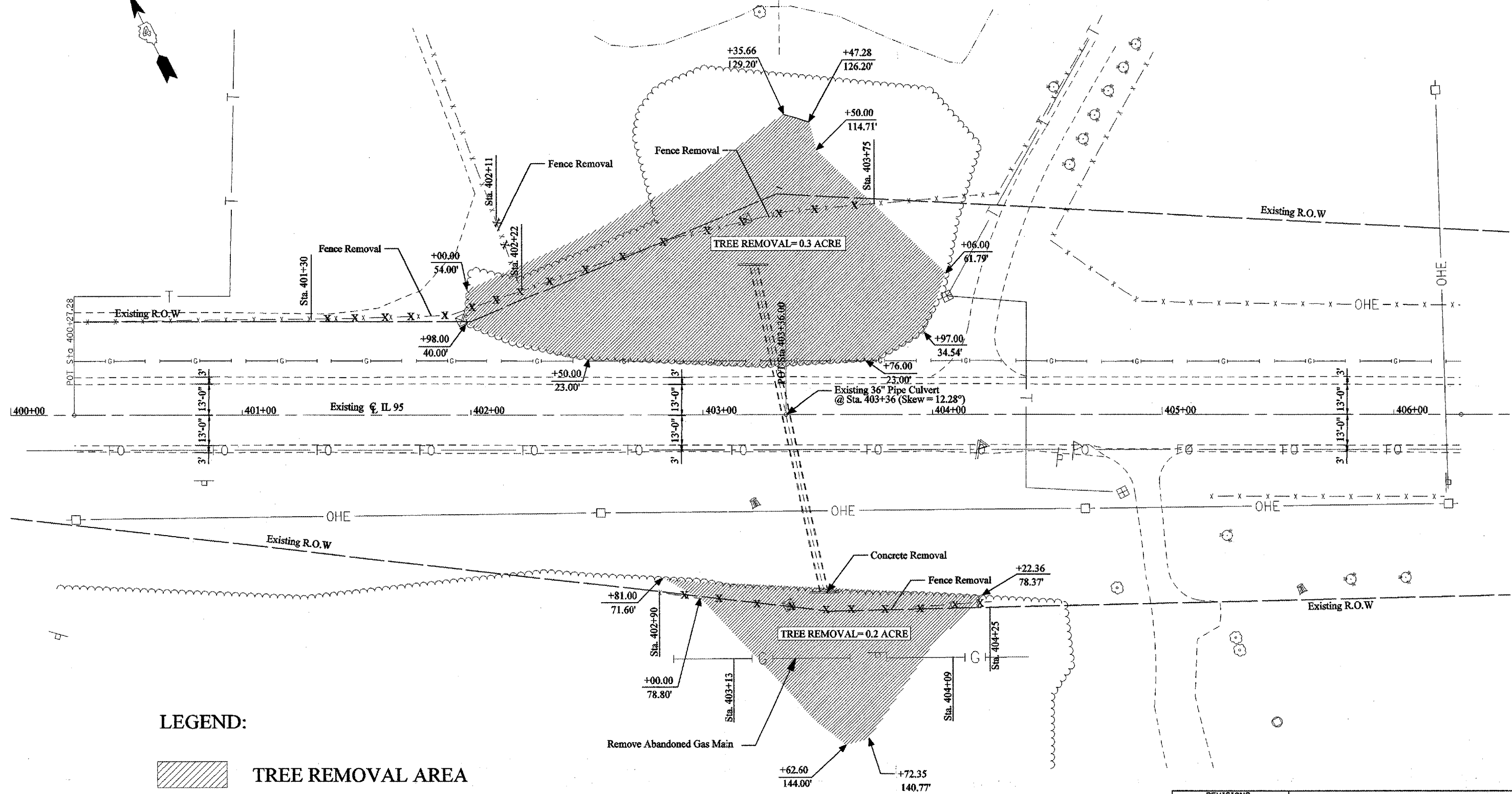






F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	17
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*D4 CULV EXT/REPAIR 2006				

JOHN S. SCHAUBLE



**LEGEND:**

 **TREE REMOVAL AREA**

RICHARD WHITEMAN JR.

REVISIONS	
NAME	DATE

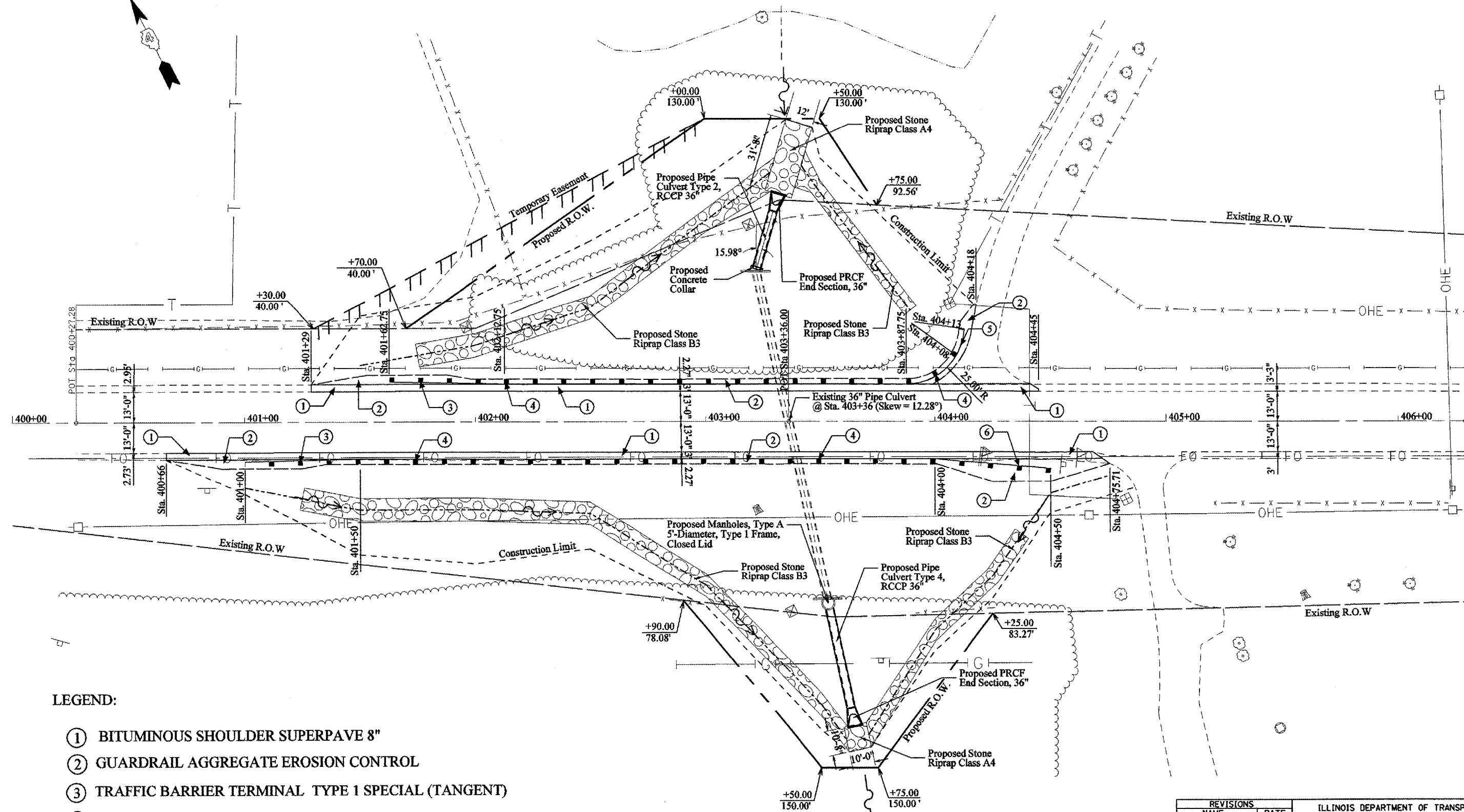
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**Existing and Removal Plans**  
**Location # 3**  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY LCE  
 CHECKED BY ENE

PLOT DATE = 9/22/2006  
 PLOT SCALE = 1" = 40' (VERTICAL)  
 PLOT SCALE = 1" = 100' (HORIZONTAL)  
 USER NAME = arensale

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*04 CULV. EXT. REPAIR 2006

JOHN S. SCHAUBLE



LEGEND:

- ① BITUMINOUS SHOULDER SUPERPAVE 8"
- 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)

RICHARD WHITEMAN JR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### PROPOSED PLANS LOCATION #3

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

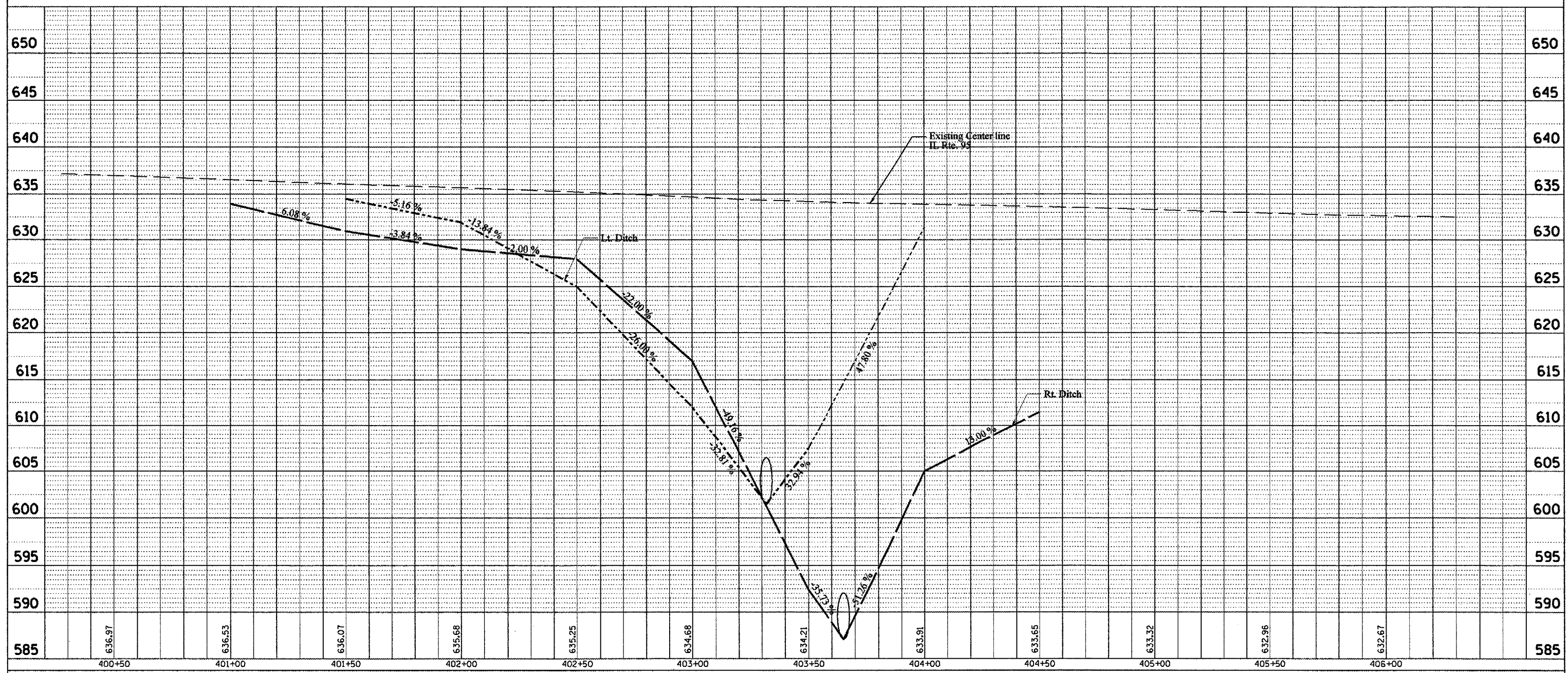
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CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	19
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

\*D4 CULV EXT/REPAIR 2006

PLAN	REVISIONS	DATE
NO.	BY	DATE

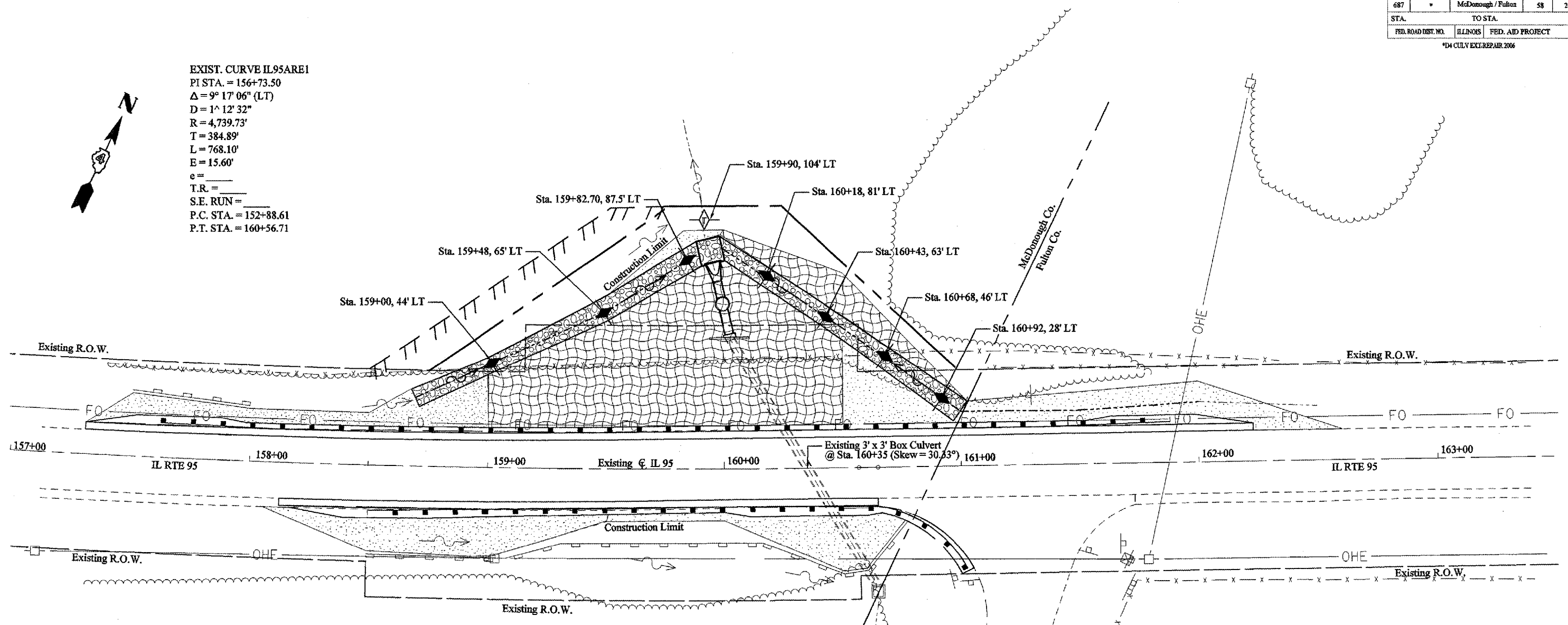
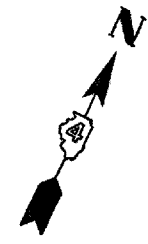
PROFILE	REVISIONS	DATE
NO.	BY	DATE




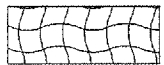


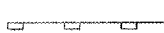
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*D4 CULV EXC/REPAIR 2006

EXIST. CURVE IL95ARE1  
 PI STA. = 156+73.50  
 $\Delta = 9^\circ 17' 06''$  (LT)  
 $D = 1^\circ 12' 32''$   
 $R = 4,739.73'$   
 $T = 384.89'$   
 $L = 768.10'$   
 $E = 15.60'$   
 $e =$  \_\_\_\_\_  
 $T.R. =$  \_\_\_\_\_  
 $S.E. RUN =$  \_\_\_\_\_  
 $P.C. STA. = 152+88.61$   
 $P.T. STA. = 160+56.71$



**LEGEND**

-  SEEDING CLASS 3 (MODIFIED)
-  HEAVY DUTY EXCELSIOR BLANKET
-  AGGREGATE DITCH CHECKS
-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER

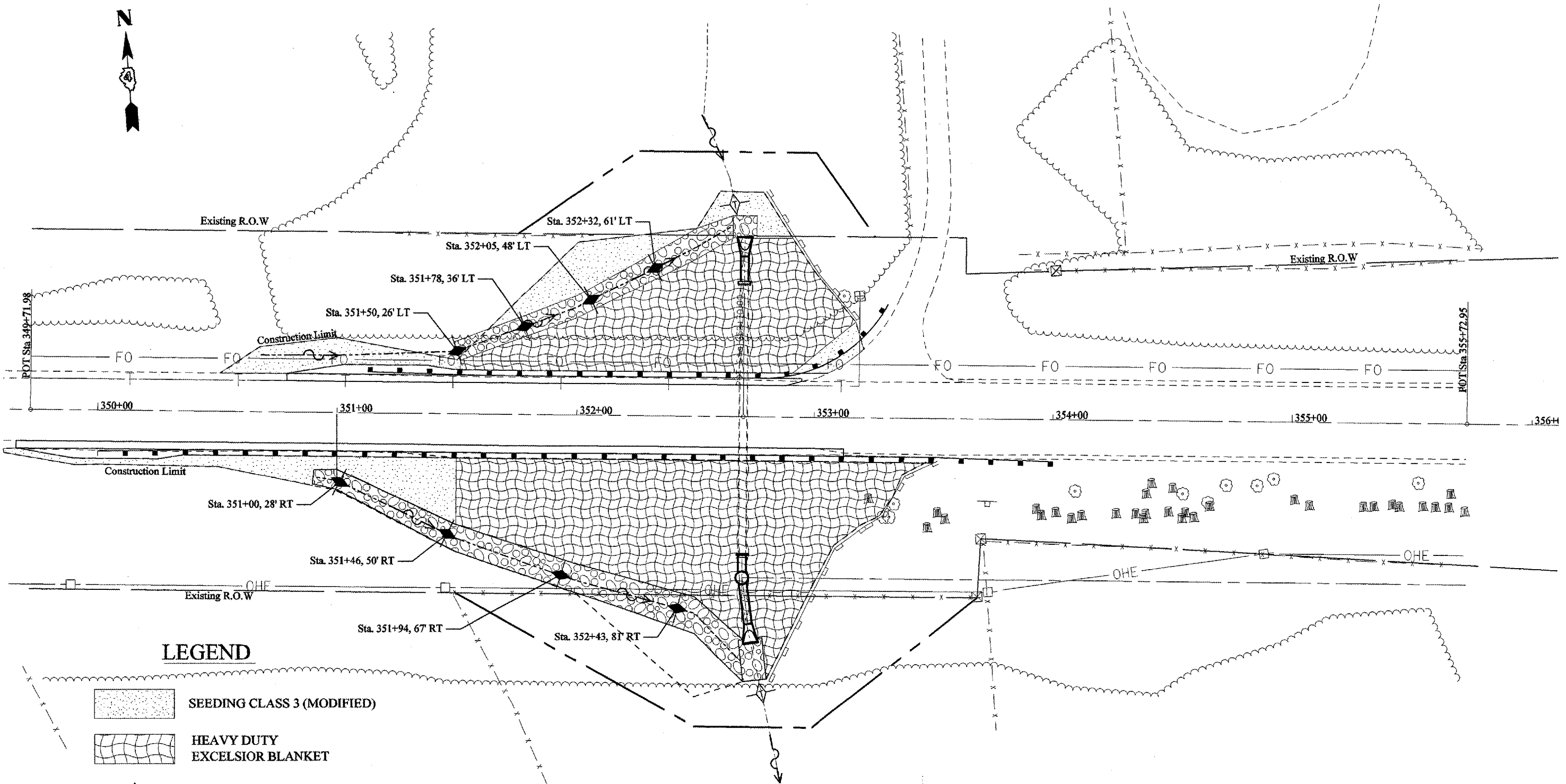
Note:  
 A Endangered Plant is located between Rt. Sta. 158+50 to Sta. 160+50 close to the tree line. The Contractor shall contact Greg Larson (309) 671-3479 prior to any construction at this location and before the installation of any fence to locate and protect the Endangered Species.

REVISIONS	
NAME	DATE





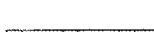
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLANS  
 LOCATION #1**  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*D4 CULV EXC. REPAIR 206



**LEGEND**

-  SEEDING CLASS 3 (MODIFIED)
-  HEAVY DUTY EXCELSIOR BLANKET
-  AGGREGATE DITCH CHECKS
-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLANS**  
**LOCATION #2**

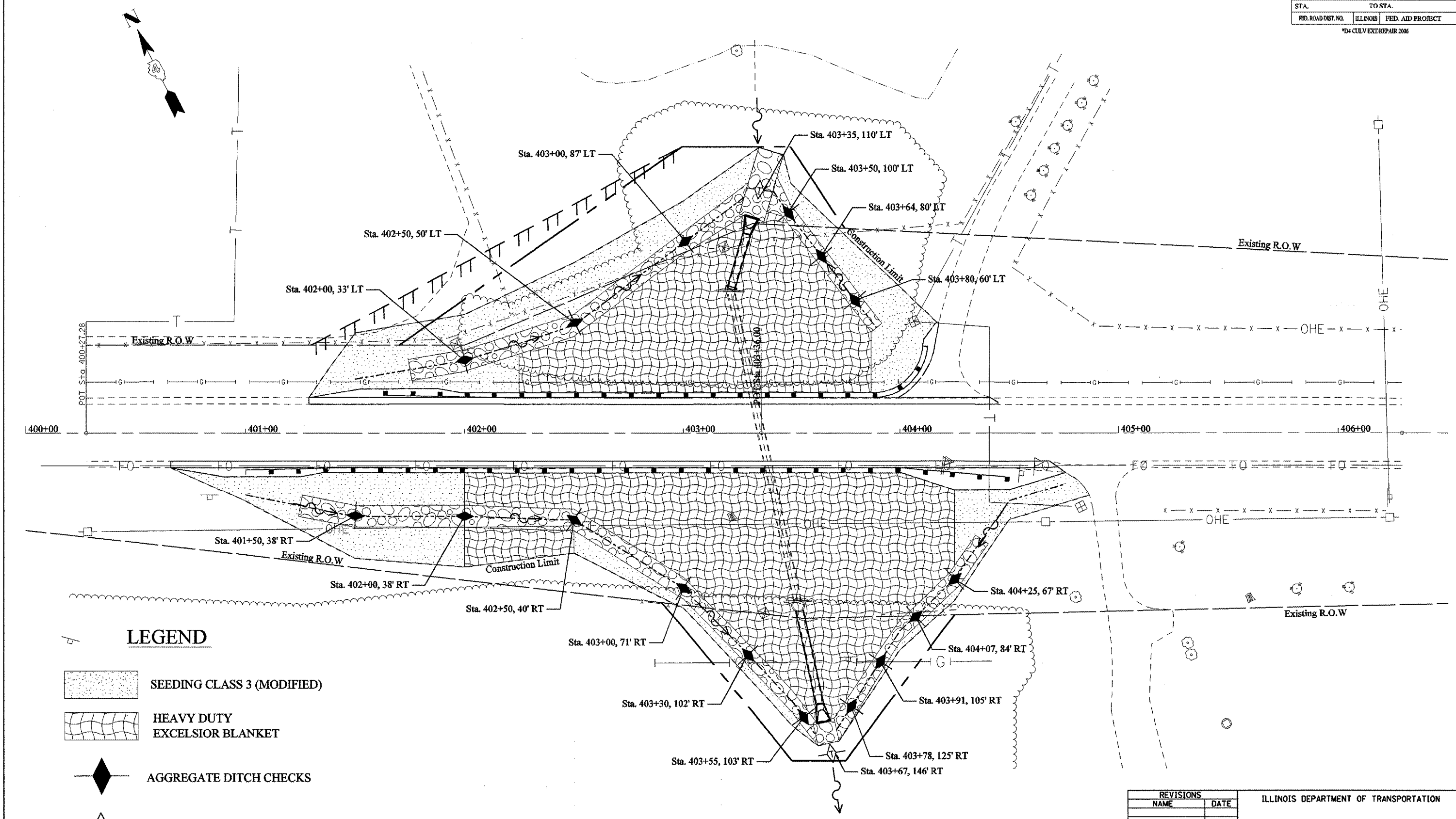
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_





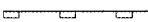
DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*D4 CULV EXT/REPAIR 2005



**LEGEND**

-  SEEDING CLASS 3 (MODIFIED)
-  HEAVY DUTY EXCELSIOR BLANKET
-  AGGREGATE DITCH CHECKS
-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLANS**  
LOCATION #3

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

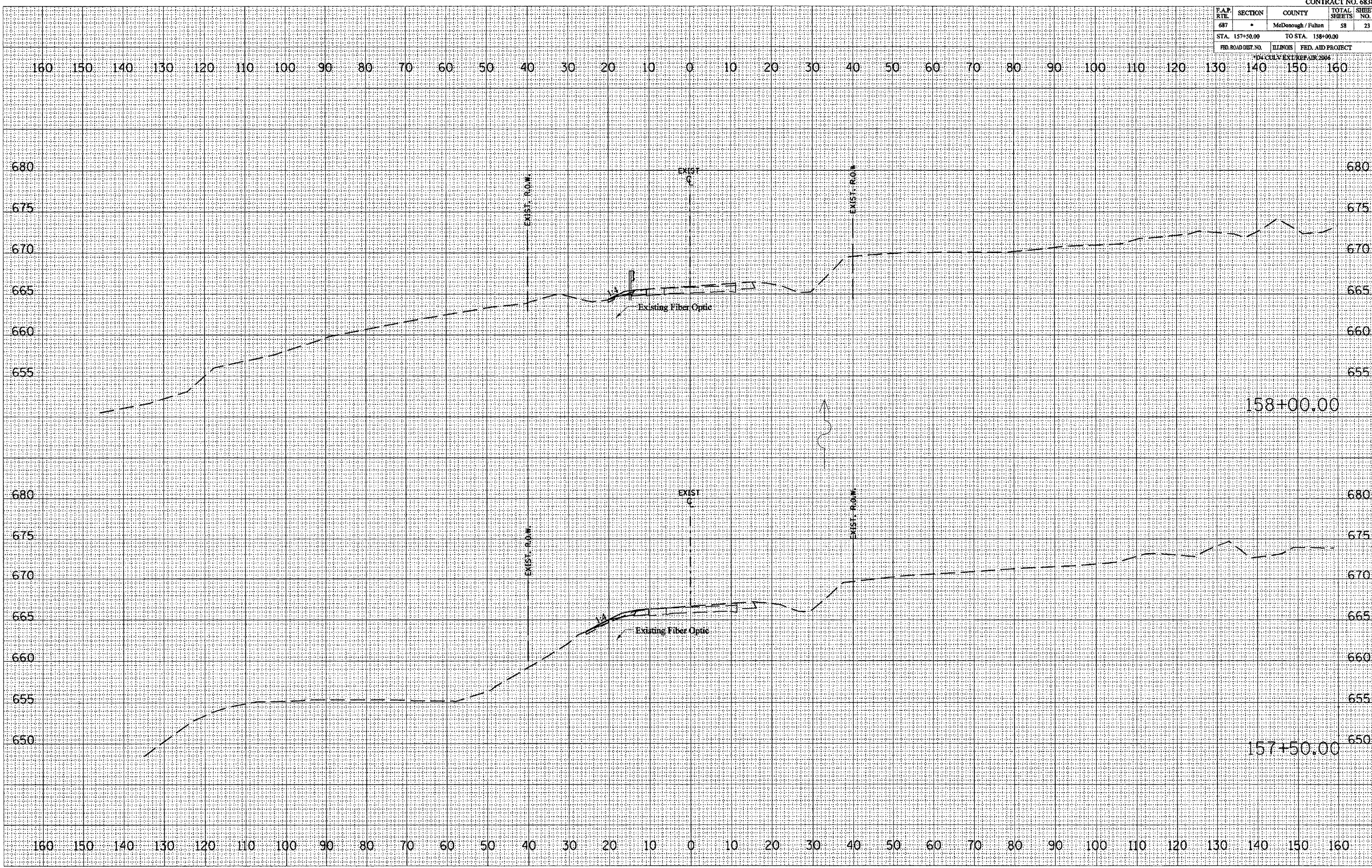


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	23
STA. 157+50.00		TO STA. 158+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
NO.	
FINAL SURVEY	
NOTED	
AREAS CHECKED	

DATE	
BY	
NO.	
GENERAL SURVEY	
NOTED	
AREAS CHECKED	

PLOT DATE = 8/24/05  
 PLOT SCALE = 1" = 40' / IN.  
 REFERENCE = 8815





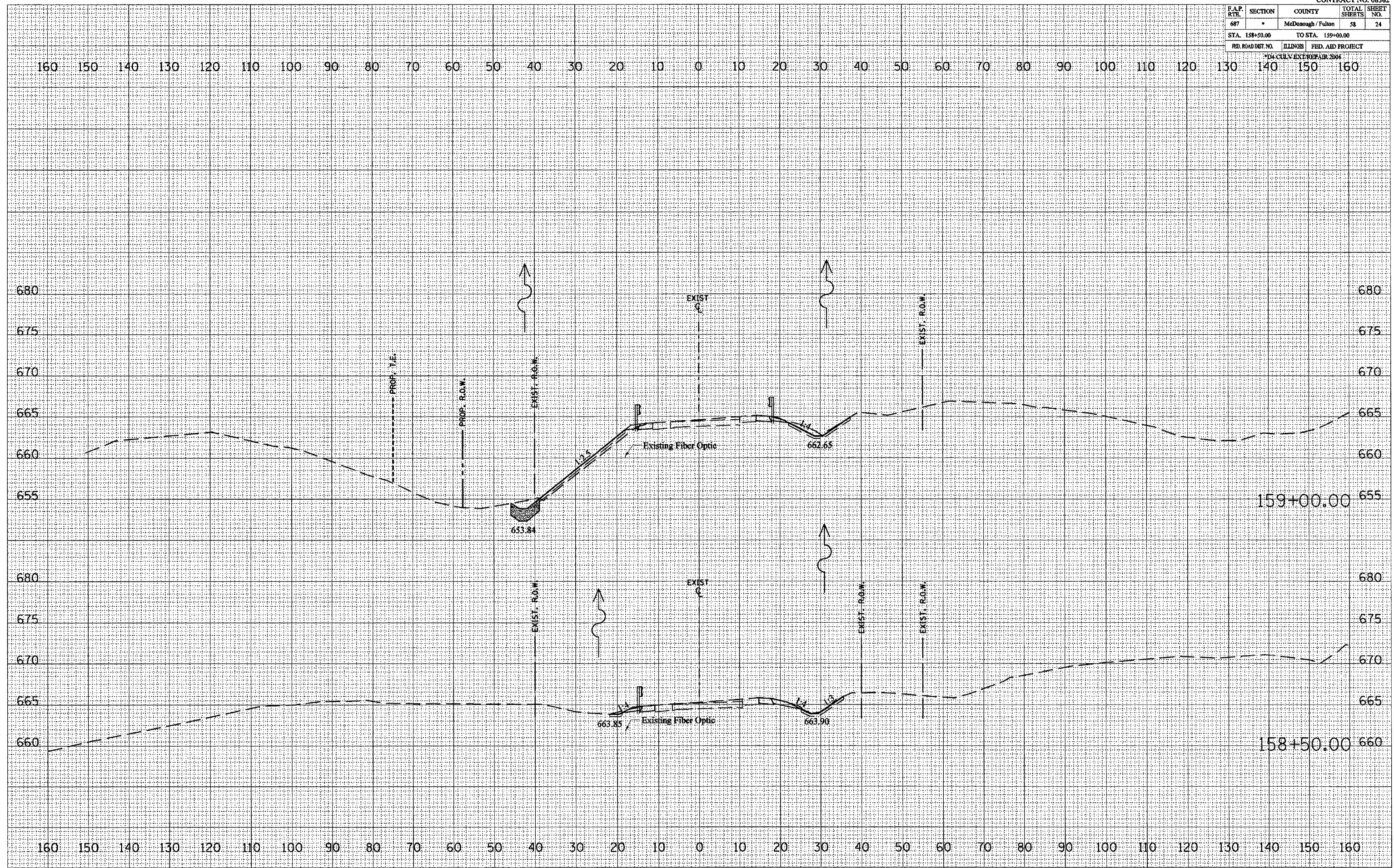
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	24
STA. 158+50.00		TO STA. 159+00.00		
RD. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\*D4 CULVERT REPAIR 2004

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

PLOT DATE : 8/24/2005  
 FILE NAME : c:\p0505a\1190c\1190c.dwg  
 PLOT SCALE : 21.2500' / IN.  
 REFERENCE : ME#4



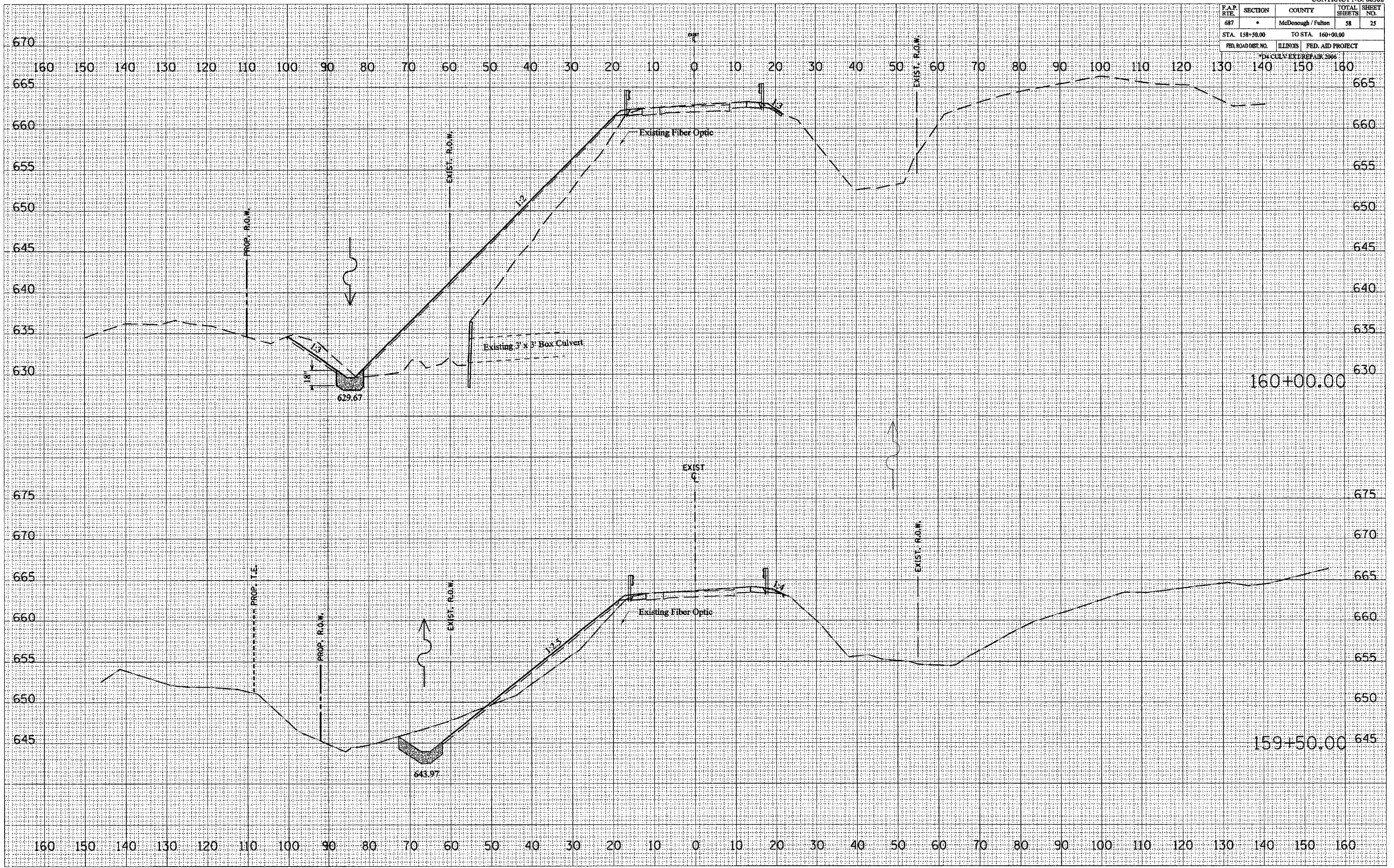


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	25
TO STA. 160+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*14' CULV. EX. D. REPAIR 2006				

BY	DATE

BY	DATE

PLOT DATE = 8/24/2005  
 PLOT SCALE = 1" = 20' / 1" / 1"  
 REFERENCE = BR14













F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	-	McDonough / Fulton	58	28
STA. 162+50.00		TO STA. 163+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DATE	BY

DATE	BY

PLOT DATE = 8/24/2005  
FILE NAME = c:\pwworkspace\115041\115041.dwg  
REFERENCE = SHEET # 28



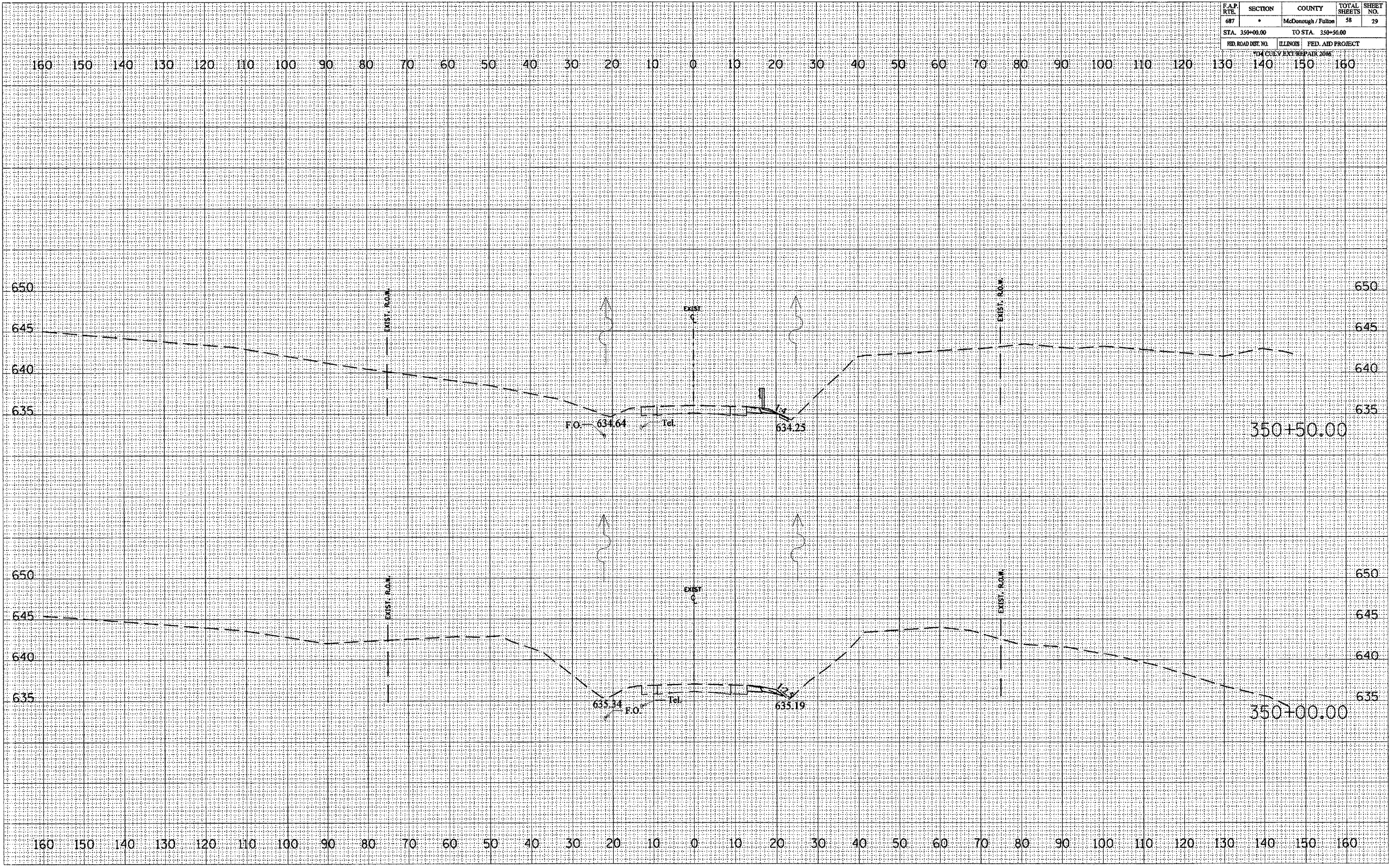


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	29
STA. 350+00.00		TO STA. 350+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
TD4 CULV EXC/REPAIR 2006				

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

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

PLOT DATE = 8/24/2005  
 PLOT BY = J. H. HARRIS  
 PLOT SCALE = 1" = 20.00' / IN.  
 USER NAME = jharris











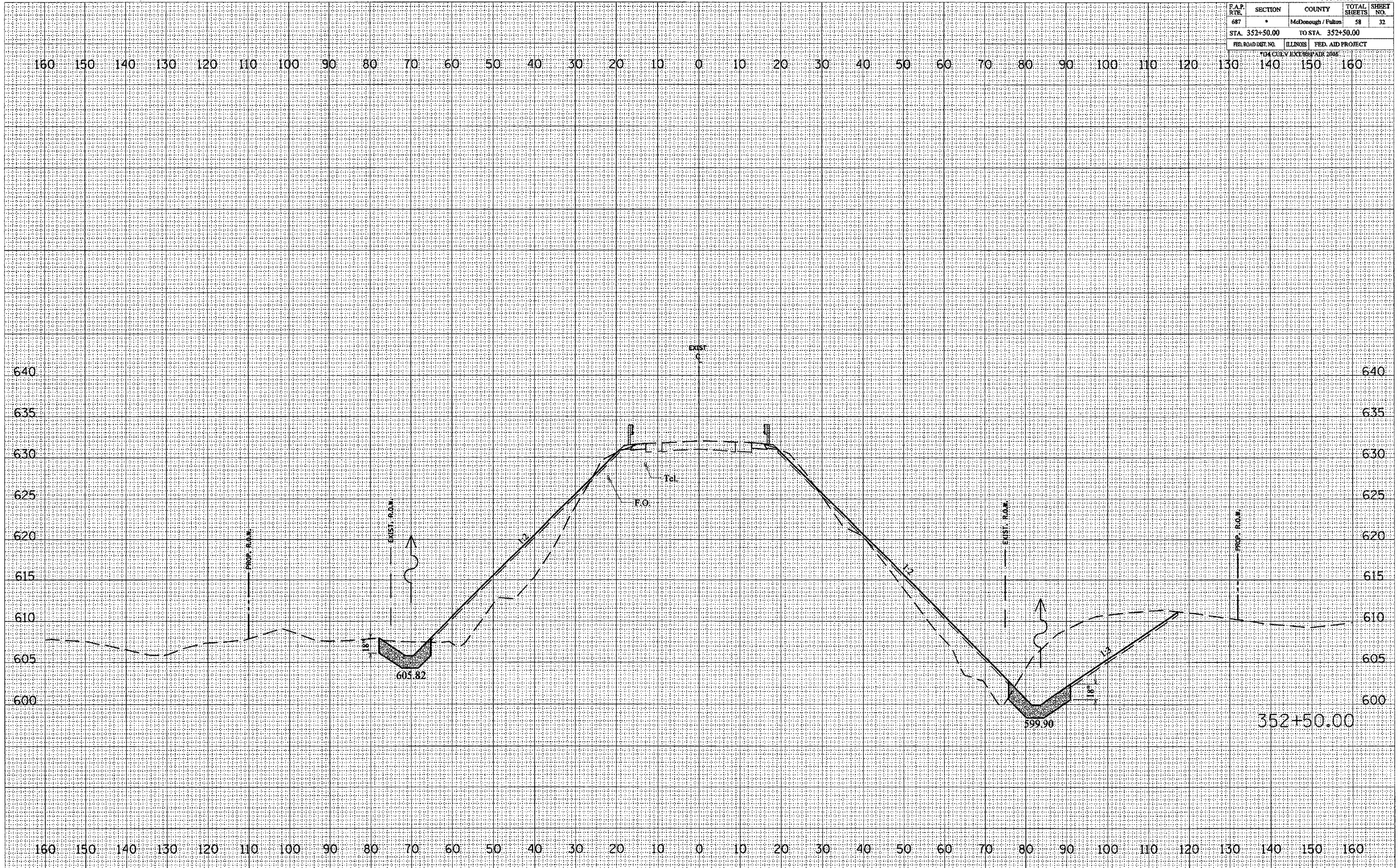


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	32
STA. 352+50.00		TO STA. 352+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*04 COLV EXCHG PAIR 2006				

FINAL SURVEY	DATE
SAVED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
SAVED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

PLOT DATE: 8/24/2005  
 FILE NAME: c:\projects\11504\11504\11504\11504.dwg  
 PLOT SCALE: 1/8" = 1'-0"  
 USER NAME: c:\preps















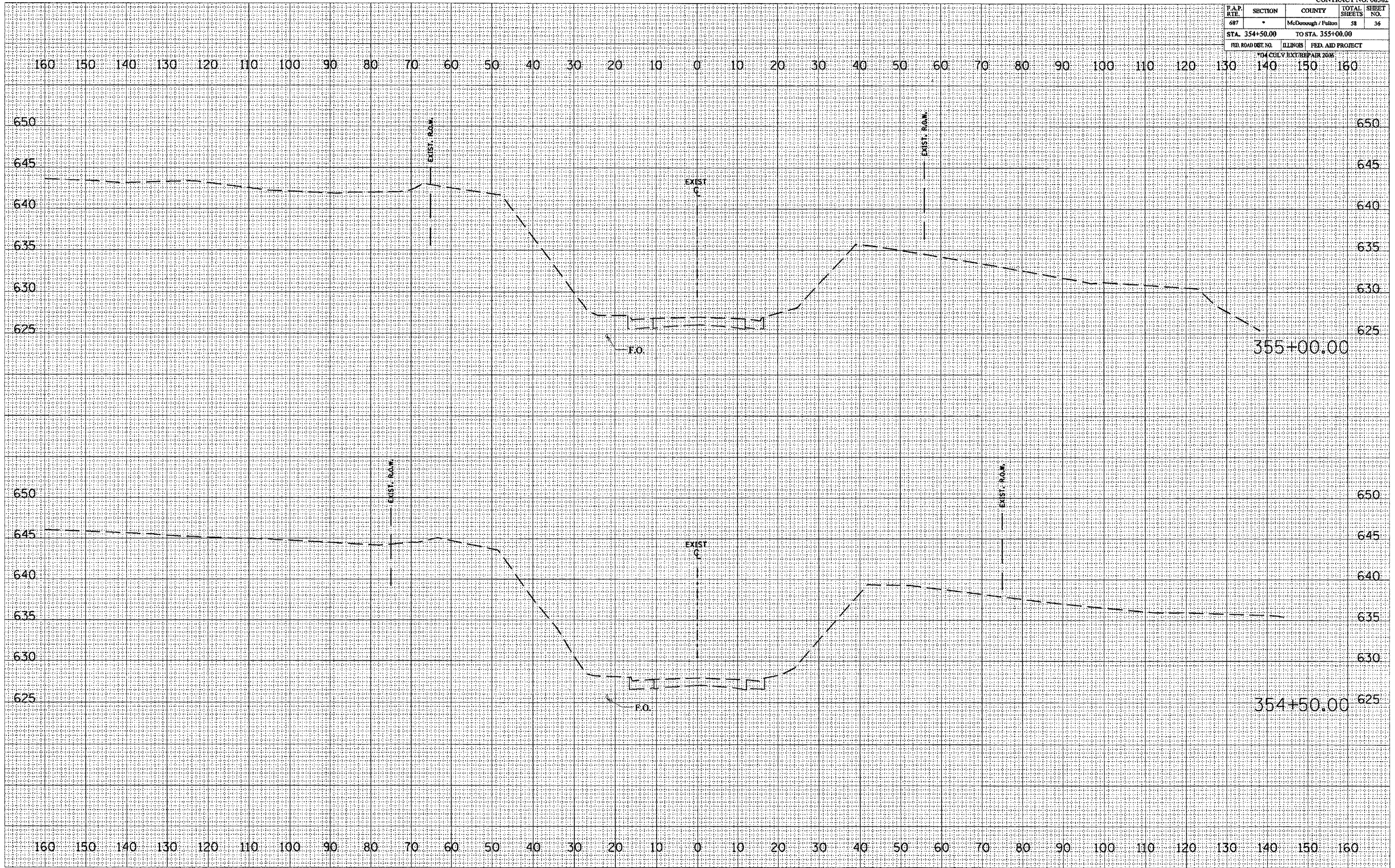


F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	38	36
STA. 354+50.00		TO STA. 355+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*14 COLV EXC/REPAIR 2005				

DATE	BY

DATE	BY

PLOT DATE = 9/24/2005  
 PLOT SCALE = 1" = 20.00'  
 USER NAME = cressola









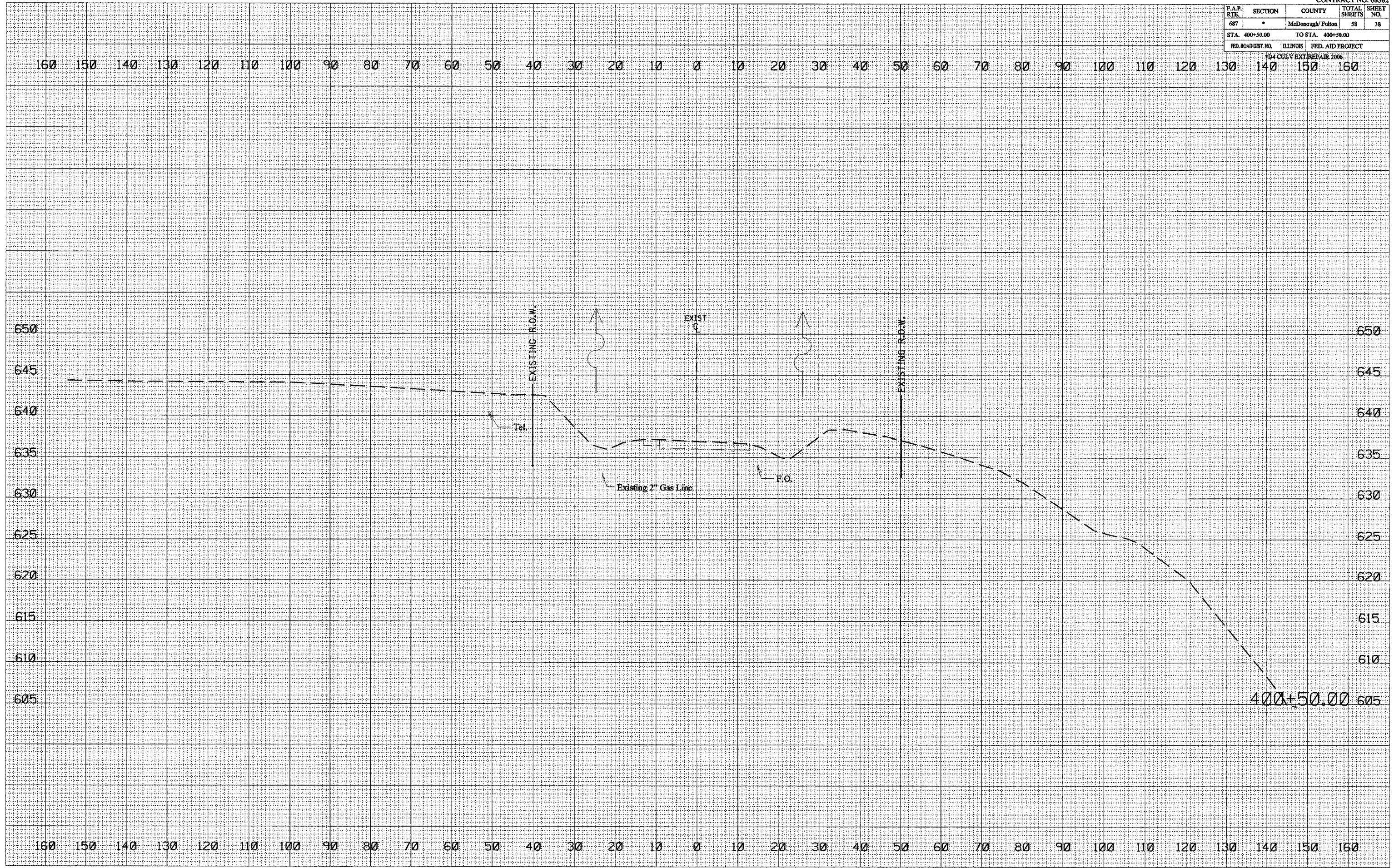
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/ Fulton	58	38
STA. 400+50.00		TO STA. 400+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

104 COL. V. EXT. REPAIR 2006

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

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

PLOT DATE = 8/24/2006  
 FILE NAME = G:\projects\11500\11500.dwg  
 USER NAME = cgregg



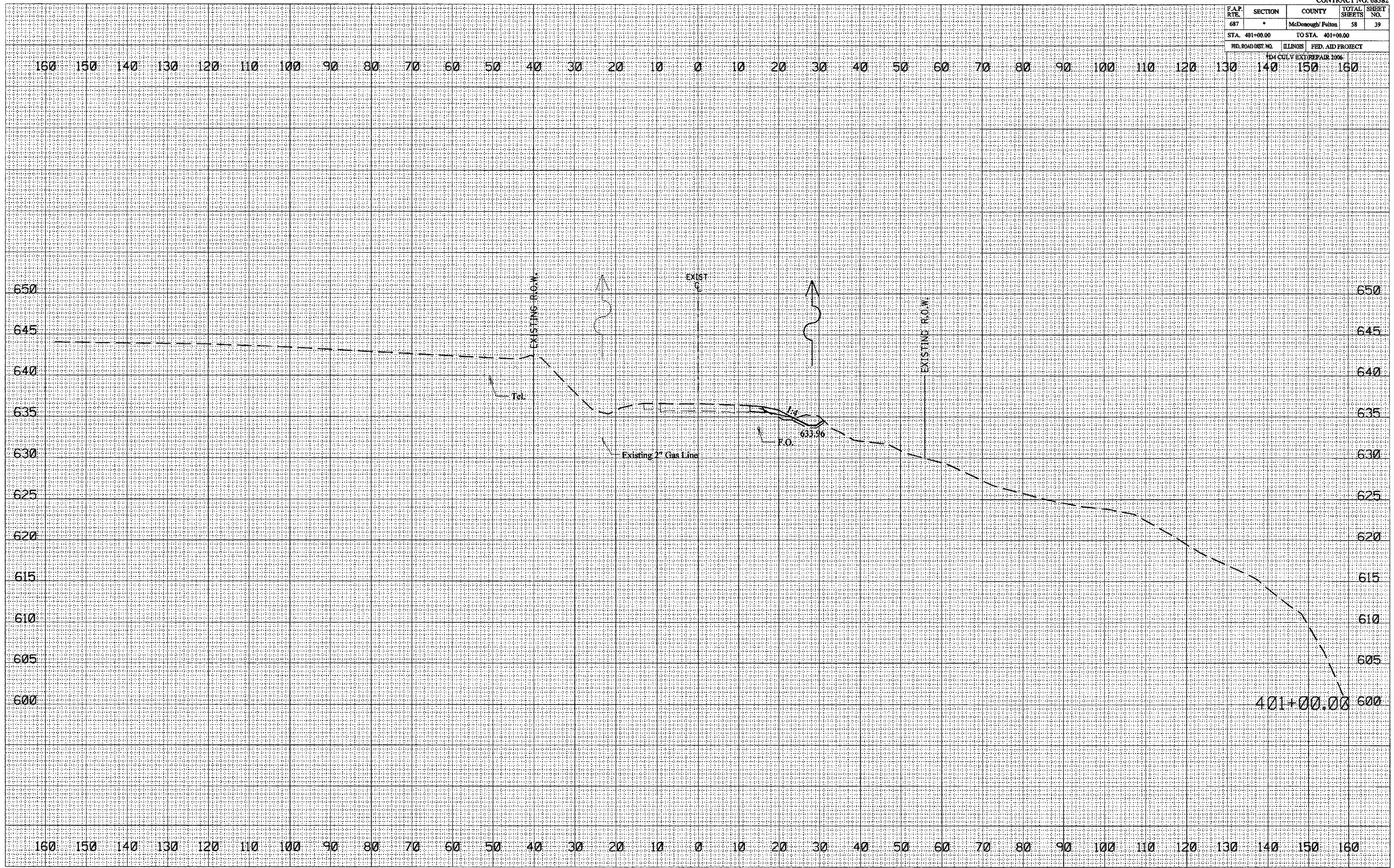


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/ Fulton	58	39
STA. 401+00.00		TO STA. 401+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
FD4 COLV EXT REPAIR 2006				

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

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

PLOT DATE = 8/24/2005  
 FILE NAME = G:\projects\1000\1000\1000\1000.dwg  
 USER NAME = creggola



401+00.00



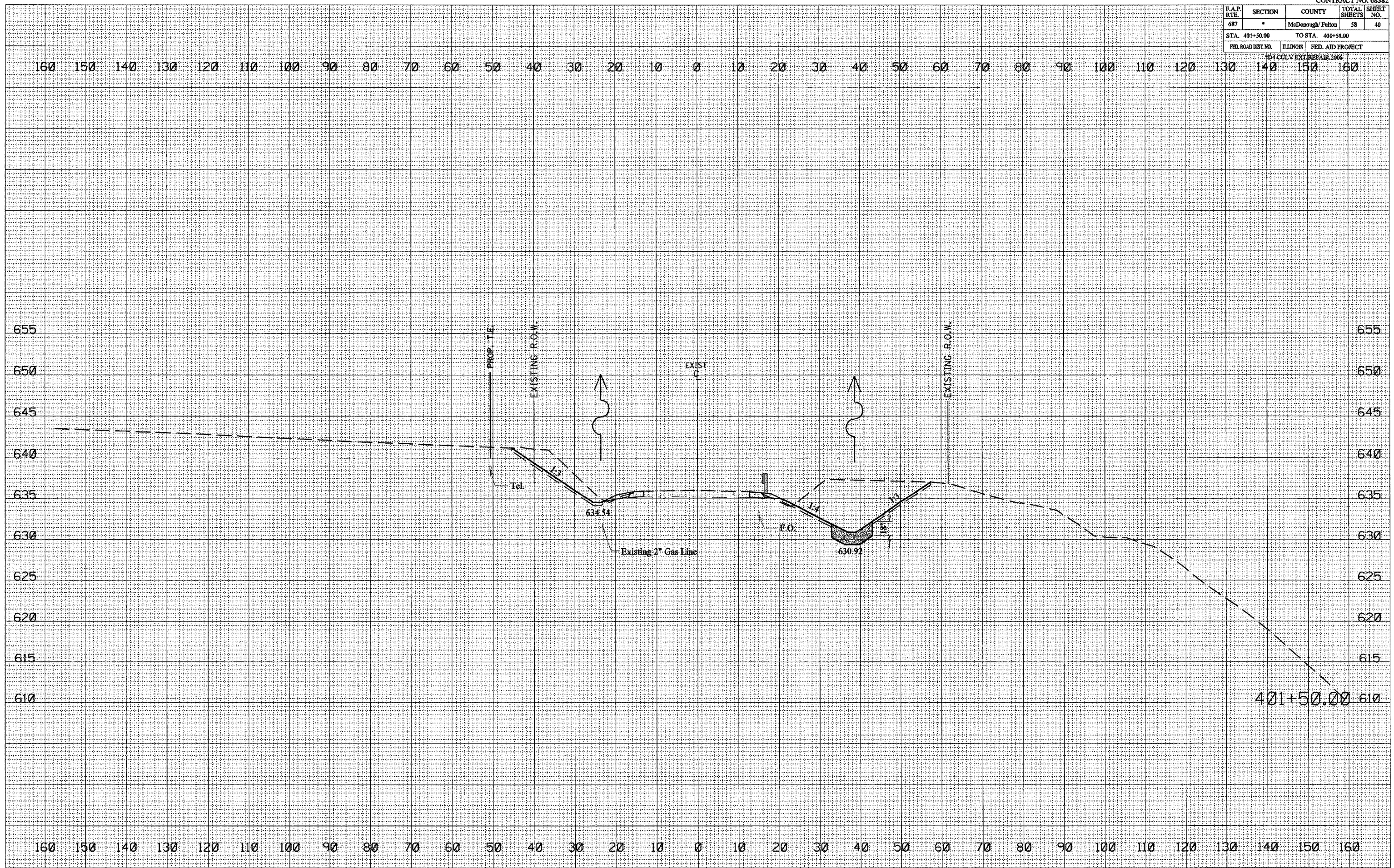
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/ Fulton	58	40
STA. 401+50.00			TO STA. 401+50.00	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

454 COLV EXT REPAIR 2006

FINAL SURVEY	NO.
NO. BOOK	
TEMPLATIC	
SURVEYED	
PLOTTED	
BY	DATE

ORIGINAL SURVEY	NO.
NO. BOOK	
TEMPLATIC	
SURVEYED	
PLOTTED	
BY	DATE

PLOT DATE = 8/24/2005  
 FILE NAME = s:\projects\1150501\sheet\401.dwg  
 USER NAME = ericpatt



401+50.00



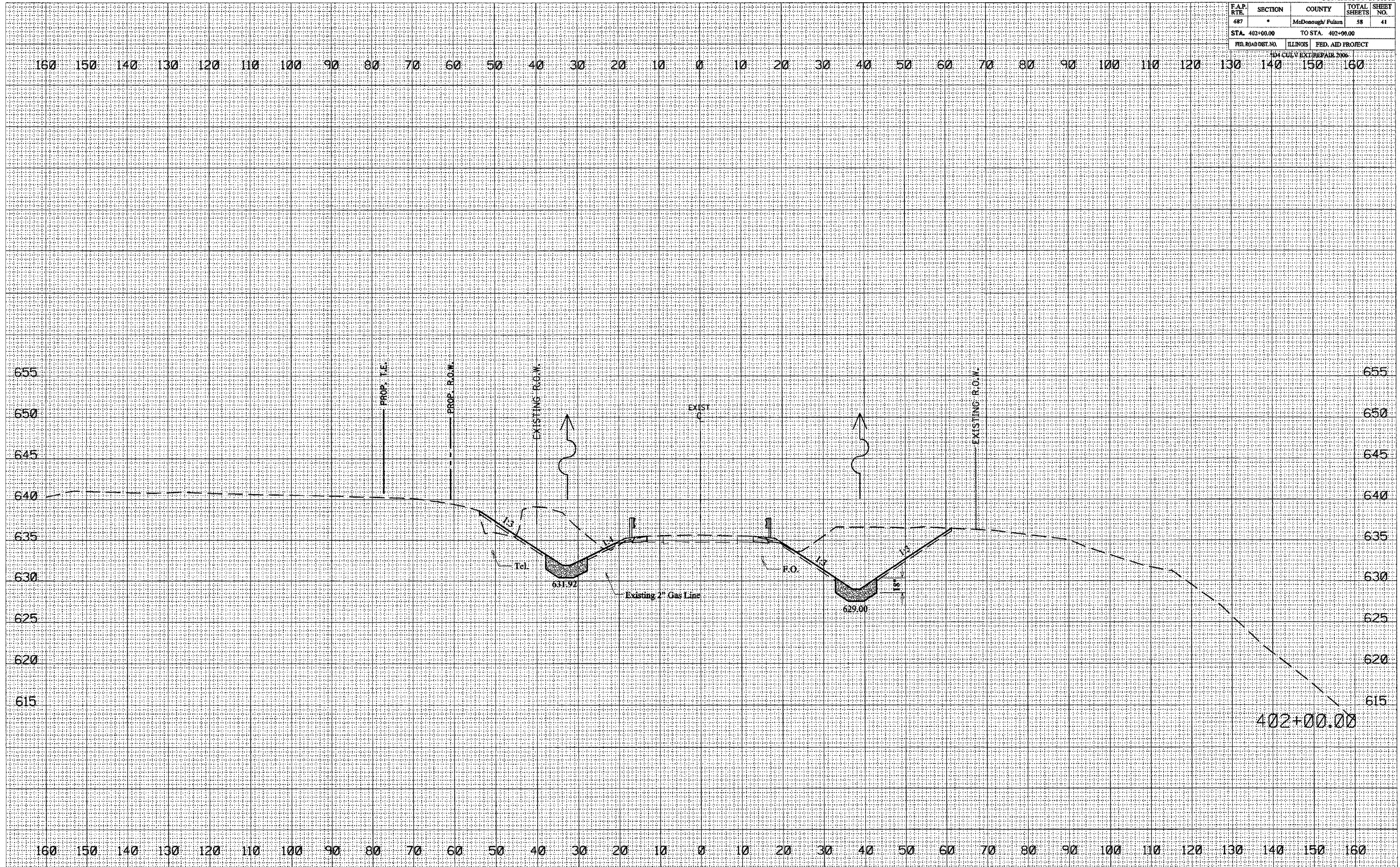
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/ Fulton	58	41
STA. 402+00.00 TO STA. 402+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

104 CULV EXTN/REPAIR 2006

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

PLOT DATE = 8/24/2005  
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 PLOT SCALE = 2:2800' / IN.  
 USER NAME = chappala



402+00.00





















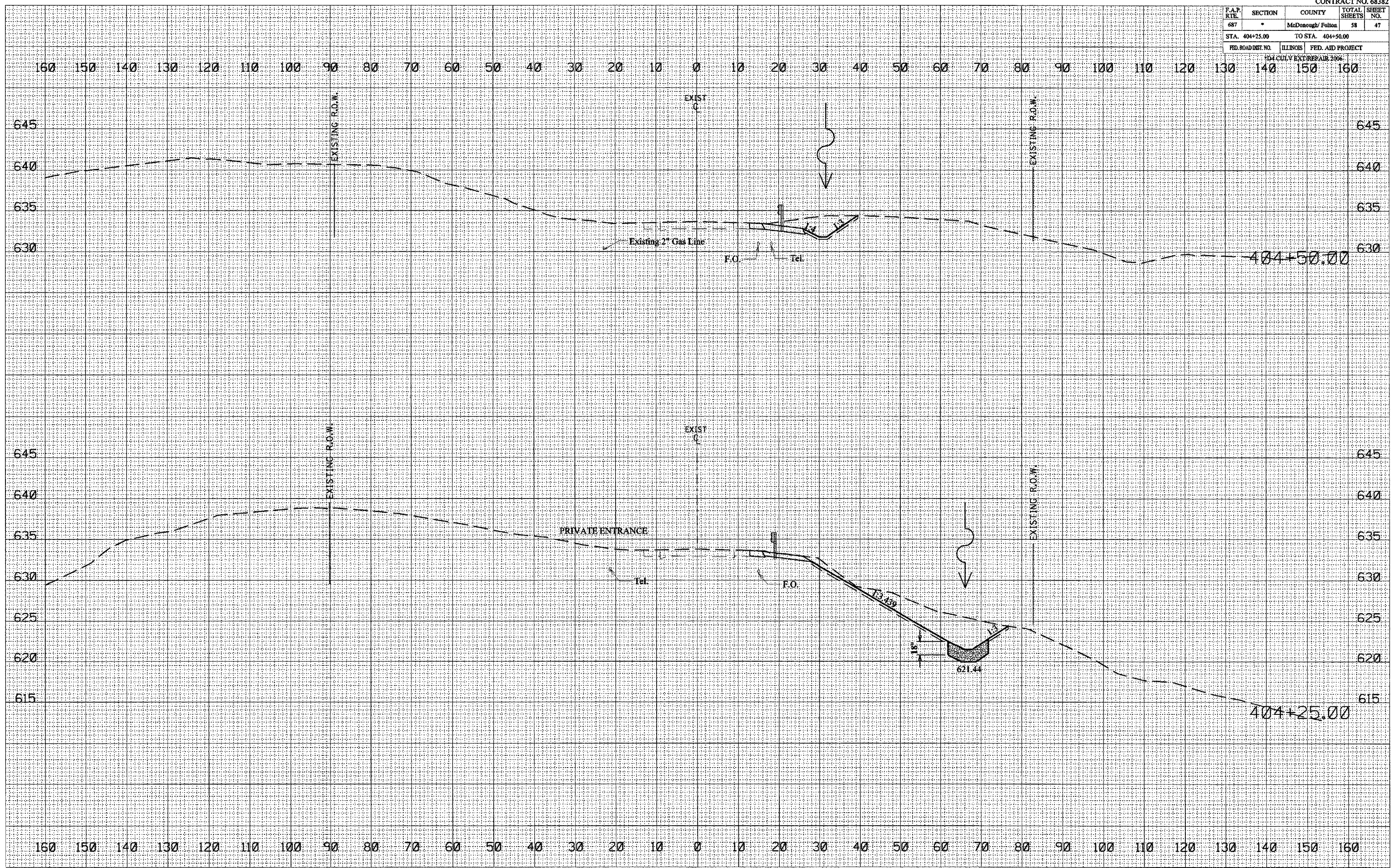


F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/Fulton	58	47
STA. 404+25.00		TO STA. 404+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
RD 4 CULV. EXT/REPAIR 2006				

FINAL SURVEY	DATE
NOTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTED	
TEMPLATE	
AREAS CHECKED	

PLOT DATE = 8/24/2005  
 FILE NAME = c:\pwork\proj\1004\1004\1004.dgn  
 USER NAME = c:\pwork\proj\1004\1004\1004.dgn



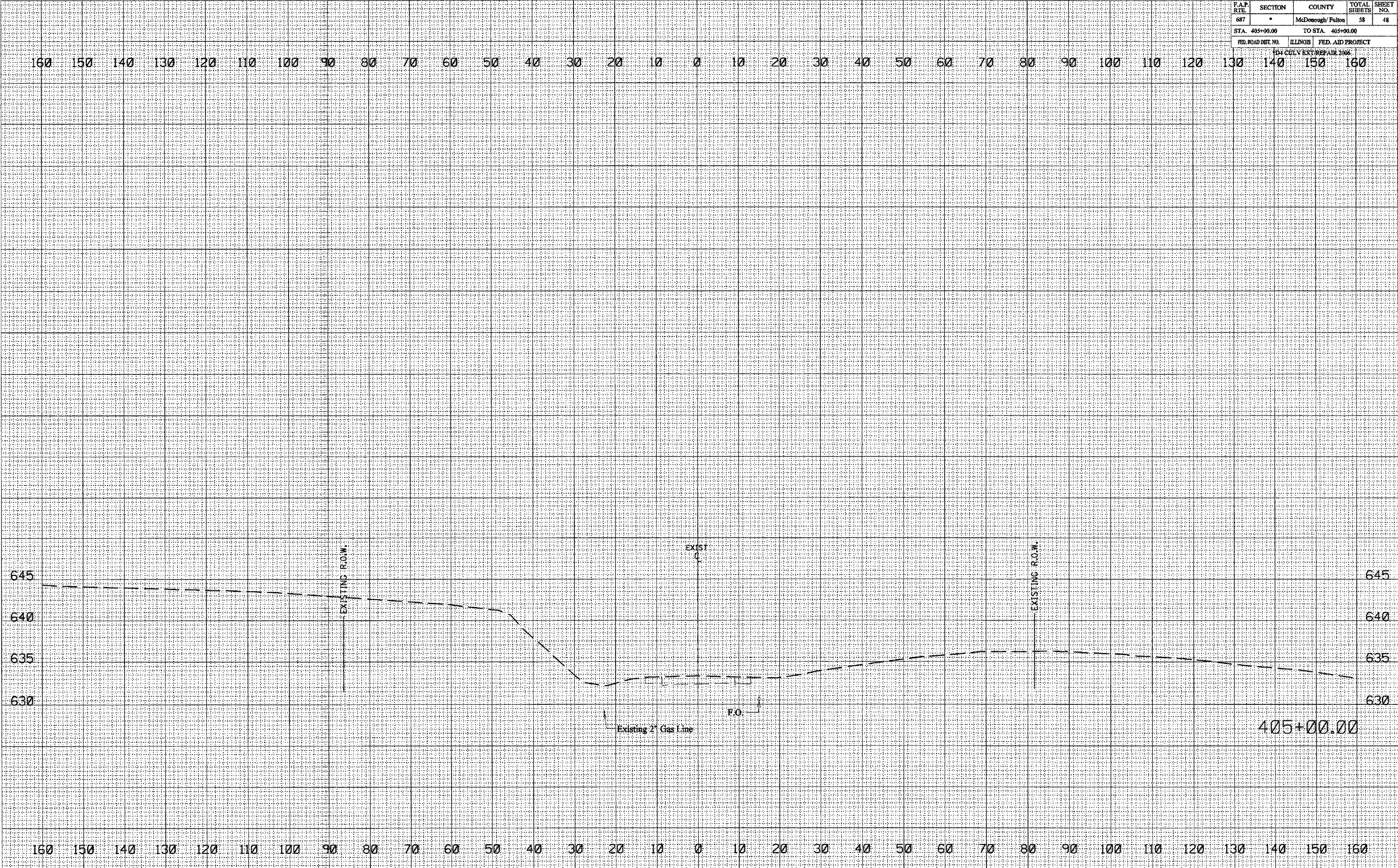


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough/Fulton	58	48
STA. 405+00.00 TO STA. 405+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
FD4 COLV EXT/REPAIR 2006				

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

PLOT DATE = 6/24/2005  
 FILE NAME = c:\pvc\mca\1\pvc\mca\1\pvc\mca\1\pvc\mca\1.dwg  
 PLOT SCALE = 1/8" = 1' / IN.  
 USER NAME = draupis

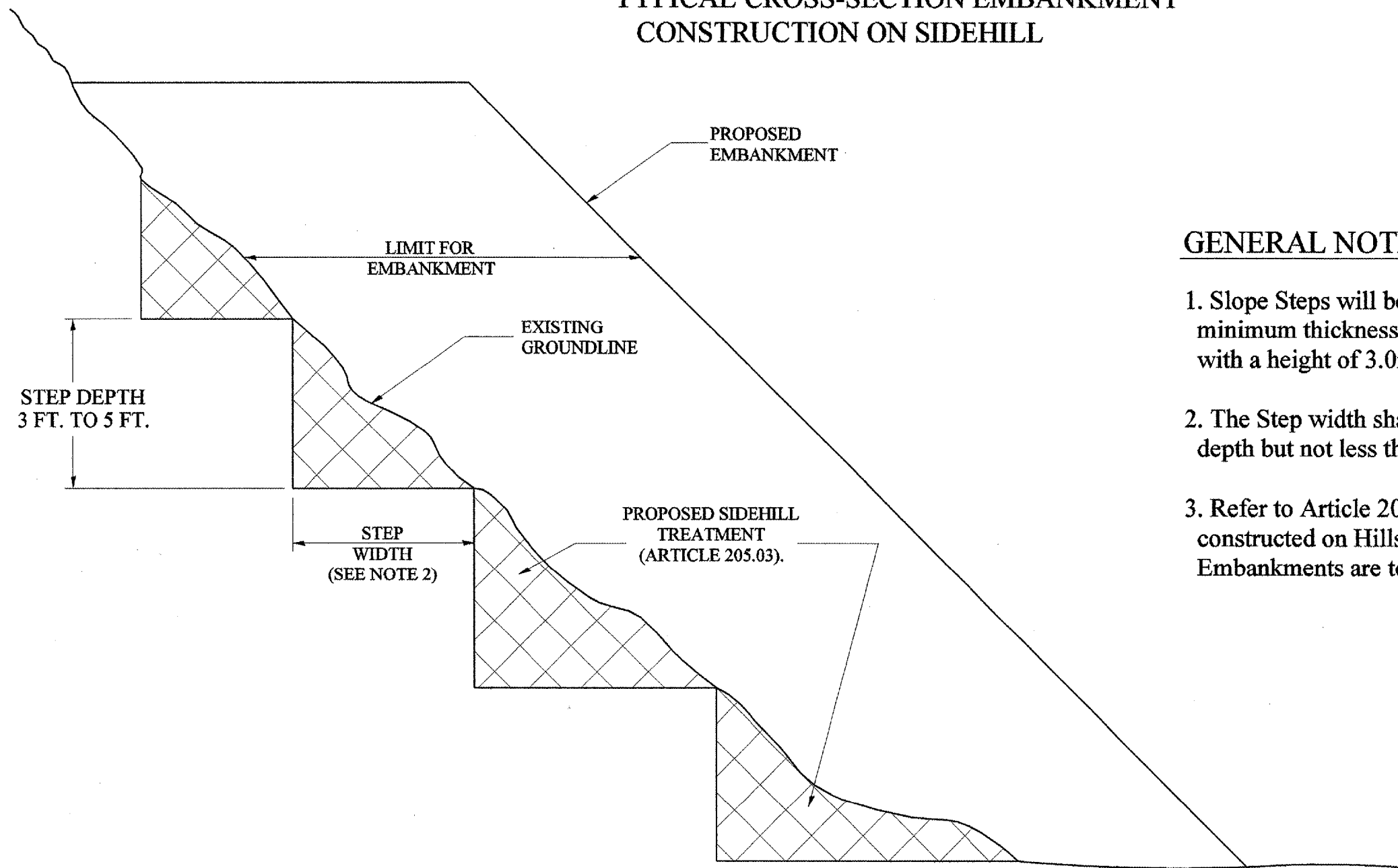


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	49
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006

## SLOPE STEPS DETAIL

### TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



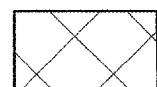
#### GENERAL NOTES:

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	
<b>SLOPE STEPS DETAIL</b>	
CADD STD. NO. 205001-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY

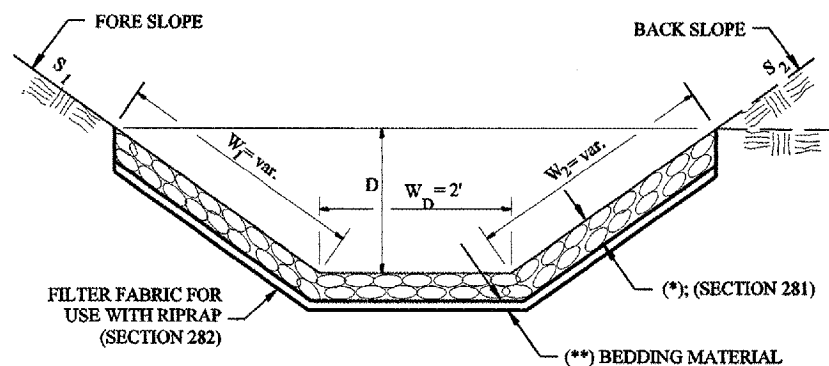
DATE	REVISIONS	BY
1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006

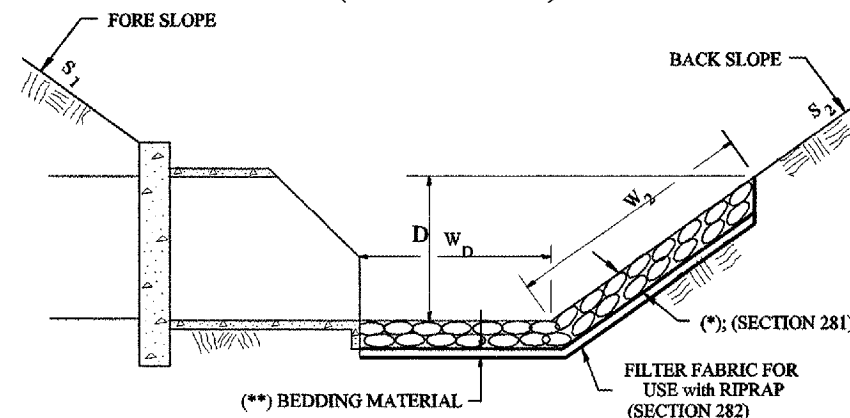
**CASE 1  
(DITCH)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
Lt Sta. 158+68.70 to 159+87.85	variable	135.44	126	
Lt Sta. 160+05 to 161+00	variable	125.50	119	
Lt Sta. 352+00 to 352+60	variable	128.75	143	
Rt Sta. 350+90 to 352+65	variable	195.50	267	
Lt Sta. 401+75 to 403+28	variable	184.84	184	
Lt Sta. 403+28 to 403+88	variable	79	87	
Rt Sta. 401+25 to 403+61	10	276.83	308	
Rt Sta. 403+61 to 404+37.5	variable	114.60	94	
<b>TOTAL</b>			<b>1,328</b>	

(1) WIDTH =  $W_1 + W_2 + \frac{1}{2} W_D$

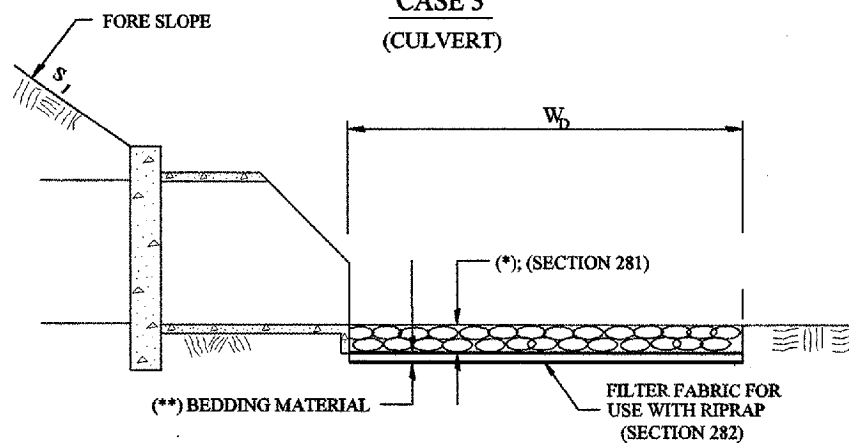
**CASE 2  
(CULVERT & SLOPE)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
Lt Sta. 403+36	31'-8"	12'	42	42
<b>TOTAL</b>			<b>42</b>	<b>42</b>

(1) WIDTH =  $W_2 + \frac{1}{2} W_D$

**CASE 3  
(CULVERT)**



LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	Sq Yd	Sq Yd
Lt Sta. 160+00	12'-3"	10'	14	14
Lt Sta. 352+70	9'-6"	10'	11	11
Rt Sta. 352+70	17'-6"	10'	19	19
Rt Sta. 403+36	10'	10'-8"	12	12
<b>TOTAL</b>			<b>56</b>	<b>56</b>

(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

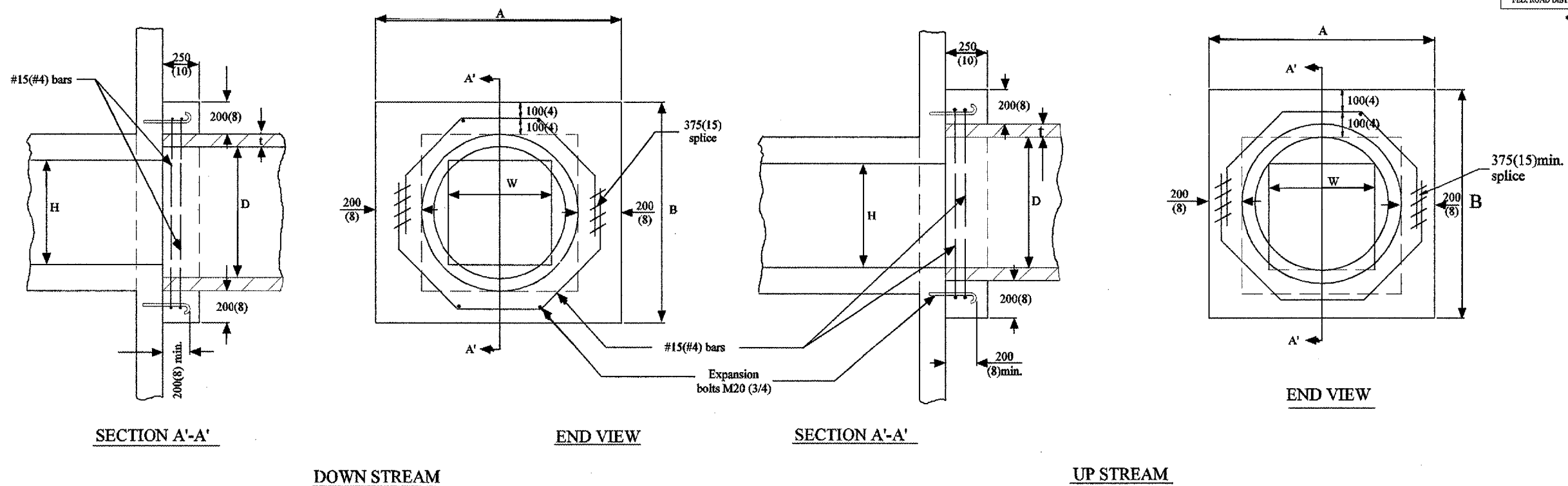
DRAWN BY CADD  
CHECKED BY

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.

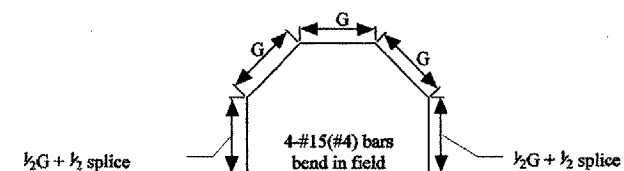
- Designer NOTES:
1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
  2. (\*) Designer to specify pay item including material, quality, and gradation.
  3. (\*\*) Designer to specify thickness of bedding material.
  4. Include District Special Provision if needed.

\$\$\$DATESS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULV EXT/ REPAIR 2006				



EXISTING BOX		A	B	D	t	EACH COLLAR				
W	H					CONC. COLLAR m(CU. YD.)	REINFORCEMENT BARS g	L	KG(LBS.)	EXPANSION BOLT EACH
300(12)	PIPE	810 (32)	810 (32)	300 (12)	50(2)	0.14(0.18)	254 (10)	1.40m (4'-7")	9(12)	4
450(18)	PIPE	990 (39)	990 (39)	450 (18)	65(2½)	0.18(0.24)	324 (12 ¾)	1.68m (5'-6")	11(15)	4
600(24)	PIPE	1.17m (3'-10")	1.17m (3'-10")	600 (24)	75(3)	0.23(0.30)	400 (15 ¾)	1.98m (6'-6")	12(17)	4
600(24)	600(24)	1.35m (4'-5")	1.35m (4'-5")	750 (30)	90(3½)	0.28(0.37)	416 (18 ¾)	2.29m (7'-6")	14(20)	4
750(30)	750(30)	1.52m (5'-0")	1.52m (5'-0")	900 (36)	100(4)	0.34(0.45)	546 (21 ½)	2.57m (8'-5")	16(22)	8
900(36)	900(36)	1.7m (5'-7")	1.7m (5'-7")	1050 (42)	115(4½)	0.38(0.50)	622 (24 ¾)	2.87m (9'-5")	18(25)	10
1050(42)	1050(42)	1.88m (6'-2")	1.88m (6'-2")	1200 (48)	125(5)	0.47(0.61)	692 (27 ¼)	3.15m (10'-4")	20(28)	10
1200(48)	1200(48)	2.06m (6'-9")	2.06m (6'-9")	1350 (54)	140(5½)	0.61(0.80)	768 (30 ¾)	3.45m (11'-4")	22(30)	10



**GENERAL NOTES**

- 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.
- Expansion Bolts shall consist of approved Expansion Anchors, and M20 (¾) hook bolts which conform to section 1006.09. These Bolts shall extend at least 200(8) into the new Concrete.

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	

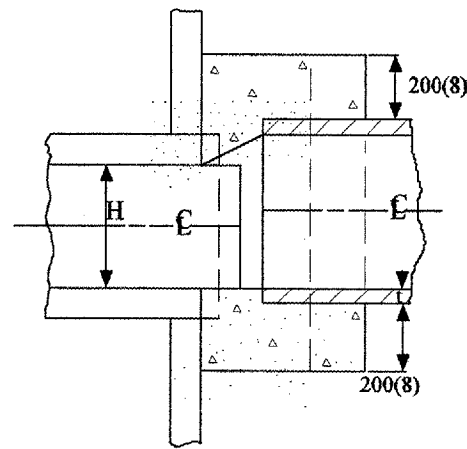
DATE	REVISIONS	BY
1-1-97	REVISION 1-11.02, NEW REVISION BOX, REVISED TITLE BOX, ADDED QUANTITY CALCULATION BOX.	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT CADD STANDARD  
**PIPE CULVERT EXTENSION  
COLLAR  
(WITH END SECTION)**

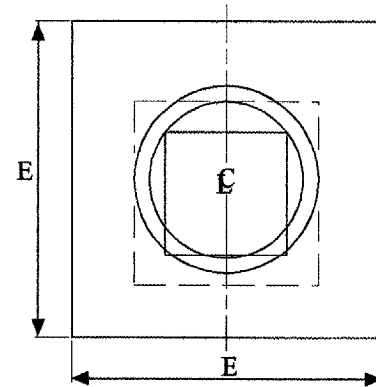
CADD STD. NO. 542001-D4  
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD  
CHECKED BY

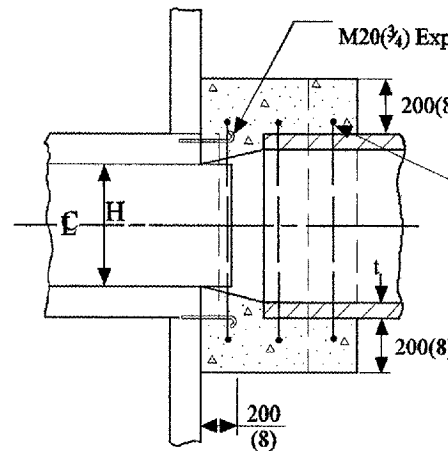
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULV EXT/ REPAIR 2006				



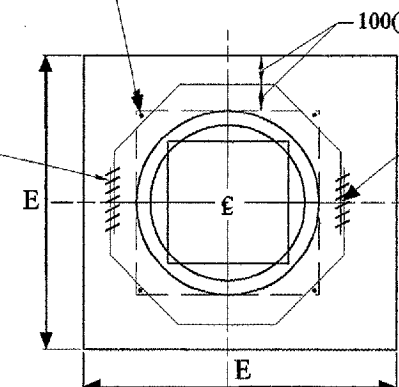
SECTION A-A



END VIEW



SECTION A-A



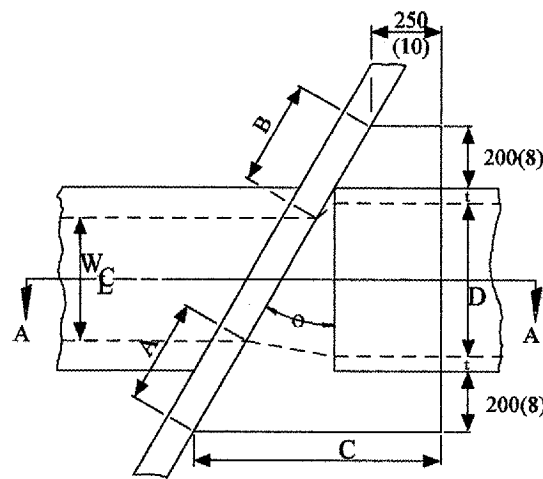
END VIEW

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

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

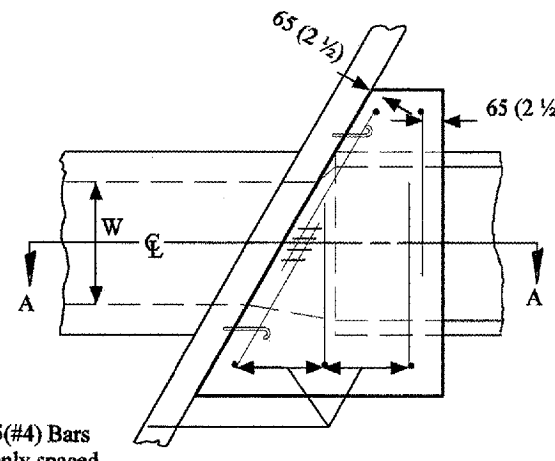
$$G = \frac{D + 2t + 200(8)}{2.4142 [\cos \theta]}$$

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

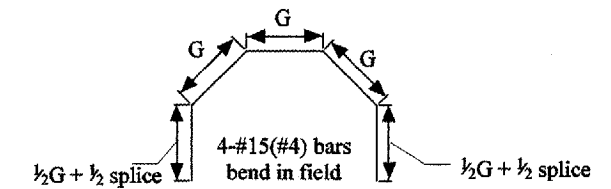


PLAN VIEW UP STREAM

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

- 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.
- 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		EACH COLLAR											
W	H	θ	A	B	C	D	E	t	CONCRETE	REINFORCEMENT BARS			EXPAN. BOLTS
									CU. YD.	G	L	LBS.	EACH
3	3	10.93°	12 3/4"	12 3/4"	21 3/4"	36"	5'-0"	4 1/2"	1.82	22 3/8"	8'-10"	24	10
PIPE 36"		15.98°	13"	13"	27 1/2"	36"	5'-1"	4 1/2"	2.08	23"	8'-11"	42	10

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

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

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

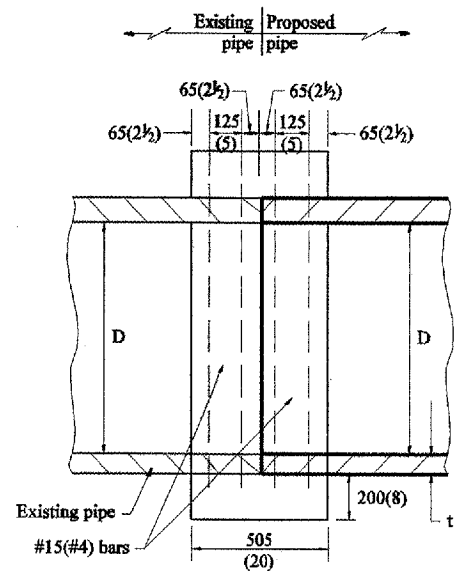
QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

\*DGN-ONLY\*

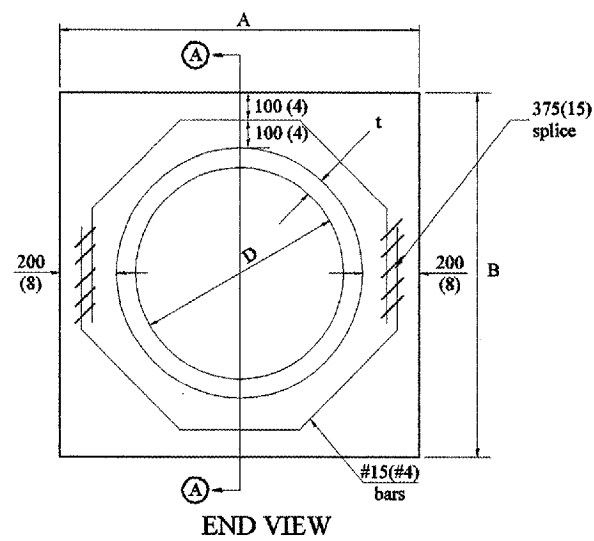


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	TAZEWELL	58	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

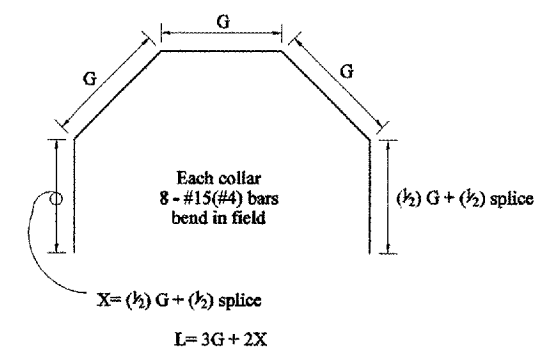
\* D4 CULVERT EXT / REPAIR 2006



SECTION A - A



END VIEW



		Each Collar						
		Reinforcement Bars						
D	t	A	B	CL. SI CONC.	G	X	L	Weight
m (in)	m (in)	m (ft)	m (ft)	m <sup>3</sup> (cu. yd)	m (ft)	m (in)	m (ft)	kg (lbs)
300 (12)	51 (2.00)	0.814 (2.67)	0.814 (2.67)	0.270 (0.4)	253 (9 <sup>15</sup> / <sub>16</sub> )	317 (12 <sup>7</sup> / <sub>16</sub> )	1.393 (4.57)	11 (24)
375 (15)	57 (2.25)	0.902 (2.96)	0.902 (2.96)	0.315(0.4)	290 (11 <sup>3</sup> / <sub>8</sub> )	335 (13 <sup>3</sup> / <sub>16</sub> )	1.541 (5.05)	12 (27)
450 (18)	64 (2.50)	0.991 (3.25)	0.991 (3.25)	0.362 (0.5)	327 (12 <sup>13</sup> / <sub>16</sub> )	354 (13 <sup>7</sup> / <sub>8</sub> )	1.689 (5.54)	14 (30)
525 (21)	70 (2.75)	1.079 (3.54)	1.079 (3.54)	0.411 (0.5)	364 (14 <sup>1</sup> / <sub>4</sub> )	372 (14 <sup>3</sup> / <sub>8</sub> )	1.836 (6.02)	15 (32)
600 (24)	76 (3.00)	1.167 (3.83)	1.167 (3.84)	0.460 (0.6)	401 (15 <sup>1</sup> / <sub>16</sub> )	391 (15 <sup>5</sup> / <sub>16</sub> )	1.984 (6.51)	16 (35)
675 (27)	83 (3.25)	1.259 (4.13)	1.259 (4.13)	0.516 (0.7)	438 (17 <sup>1</sup> / <sub>4</sub> )	409 (16 <sup>1</sup> / <sub>16</sub> )	2.131 (6.99)	17 (37)
750 (30)	89 (3.50)	1.347 (4.42)	1.347 (4.42)	0.570 (0.7)	475 (18 <sup>1</sup> / <sub>16</sub> )	428 (16 <sup>3</sup> / <sub>4</sub> )	2.279 (7.48)	18 (40)
825 (33)	95 (3.75)	1.436 (4.71)	1.436 (4.71)	0.624 (0.8)	512 (20 <sup>1</sup> / <sub>8</sub> )	446 (17 <sup>1</sup> / <sub>2</sub> )	2.426 (7.96)	19 (43)
900 (36)	102 (4.00)	1.524 (5.00)	1.524 (5.00)	0.682 (0.9)	549 (21 <sup>9</sup> / <sub>16</sub> )	465 (18 <sup>3</sup> / <sub>16</sub> )	2.574 (8.44)	20 (45)
1050 (42)	114 (4.50)	1.701 (5.58)	1.701 (5.58)	0.800 (1.0)	622 (24 <sup>7</sup> / <sub>16</sub> )	501 (19 <sup>3</sup> / <sub>4</sub> )	2.869 (9.41)	23 (50)
1200 (48)	127 (5.00)	1.881 (6.17)	1.881 (6.17)	0.930 (1.2)	696 (27 <sup>5</sup> / <sub>16</sub> )	538 (21 <sup>3</sup> / <sub>16</sub> )	3.164 (9.41)	25 (55)

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.

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

QUANTITIES	
CALC. BY:	R.J.D. 2-2-98
CHECKED BY:	R.D.H. 2-6-98
DATE:	DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

DATE	REVISIONS	BY
1-1-97	RENUM. B-3.03, NEW REVISION BOX ADDED QUANTITY CALCULATION BOX, REVISED TITLE BOX	T.P.
4-1-97	CORRECT BAR	J.A.
2-10-98	REVISE QUANTITIES	J.A.
9-1-00	CORRECT WEIGHT	J.A.

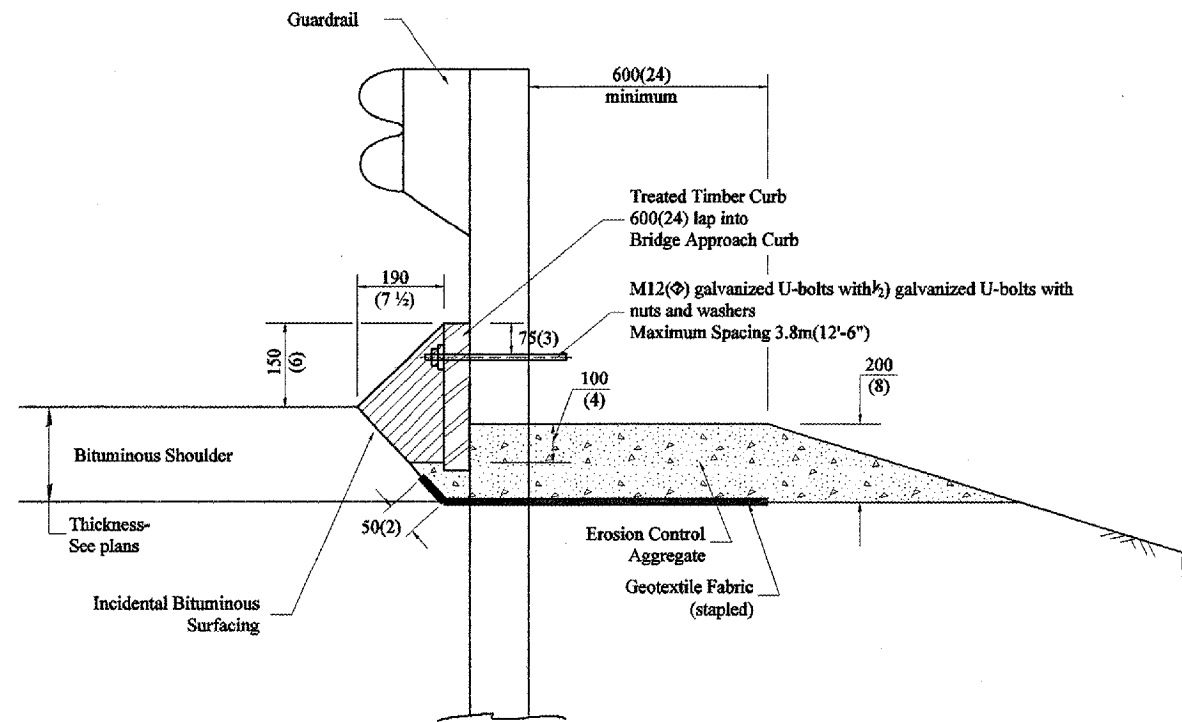
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION)	
CADD STANDARD 542016-D4	
SCALE: NOT DRAWN TO SCALE	DRAWN BY: CADD
DATE: \$\$\$DATE\$\$	CHECKED BY:

\$\$\$DATE\$\$

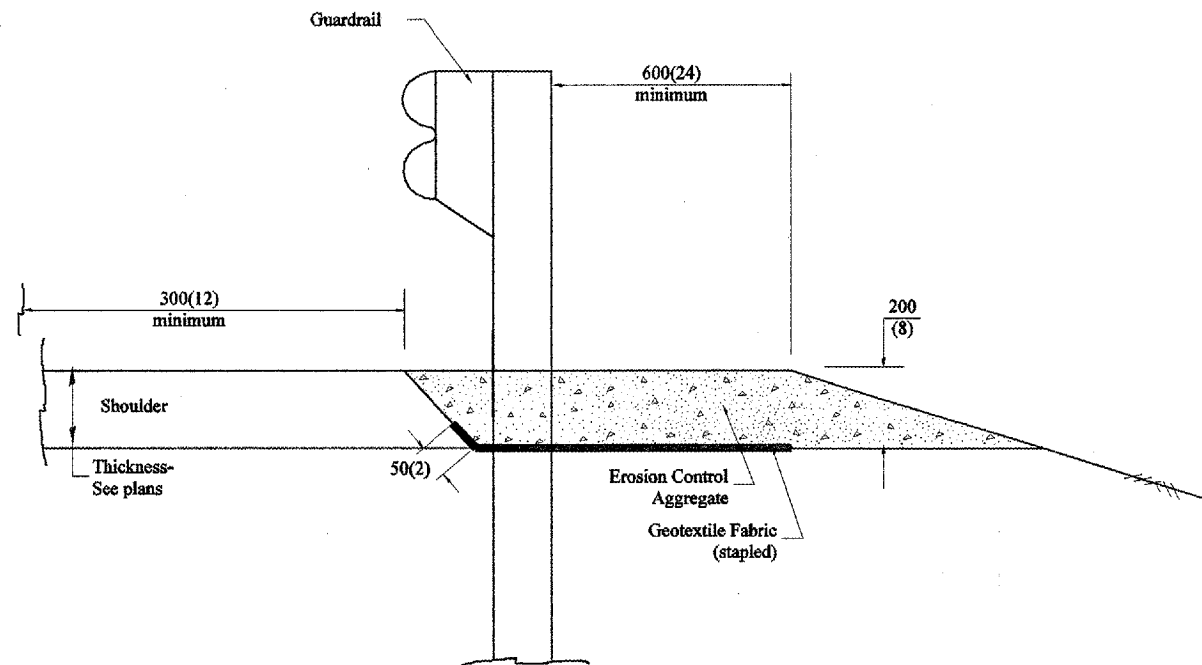
\*DCN-ONLY\*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	54
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006



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/m<sup>3</sup> (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

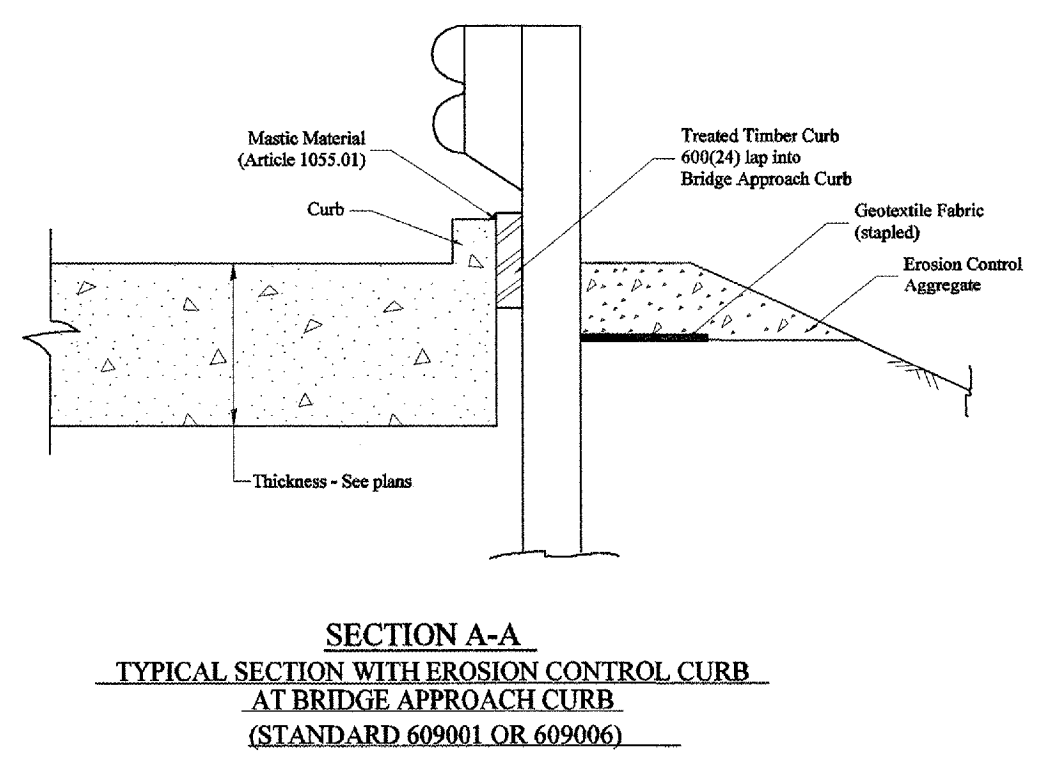
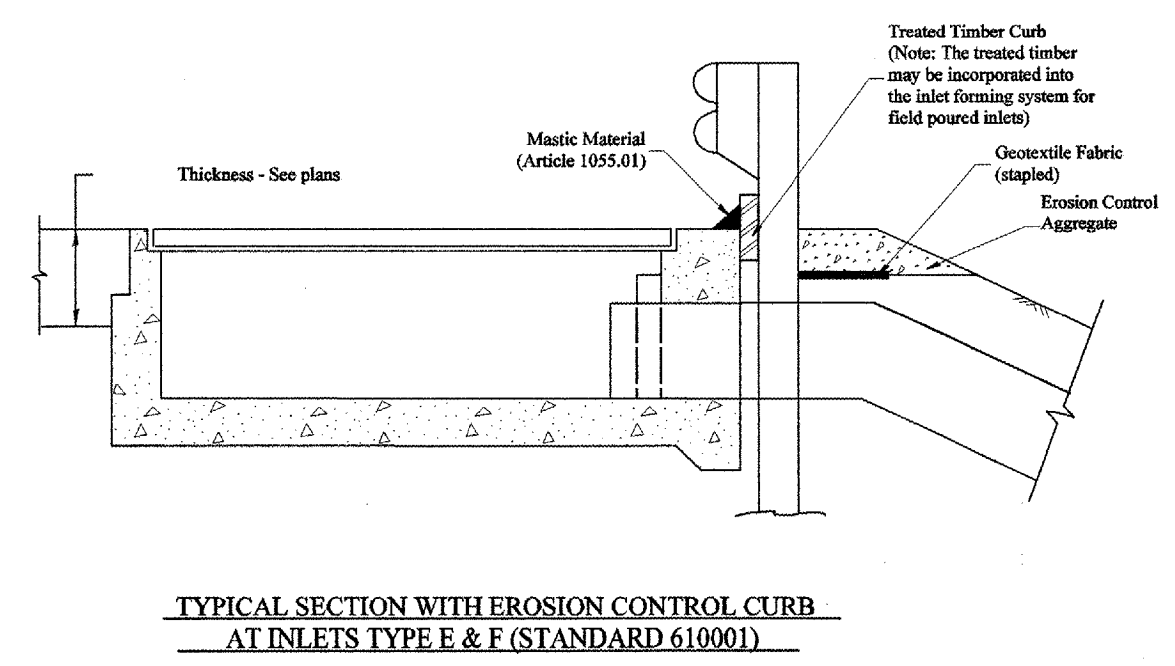
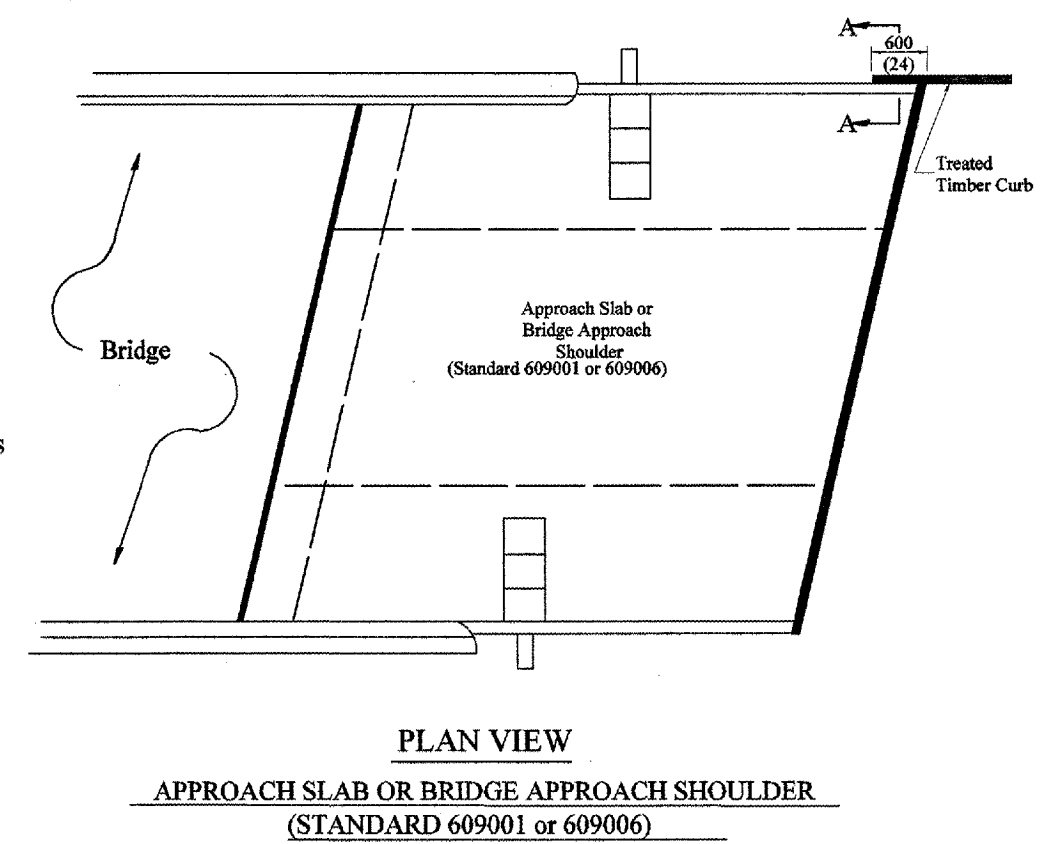
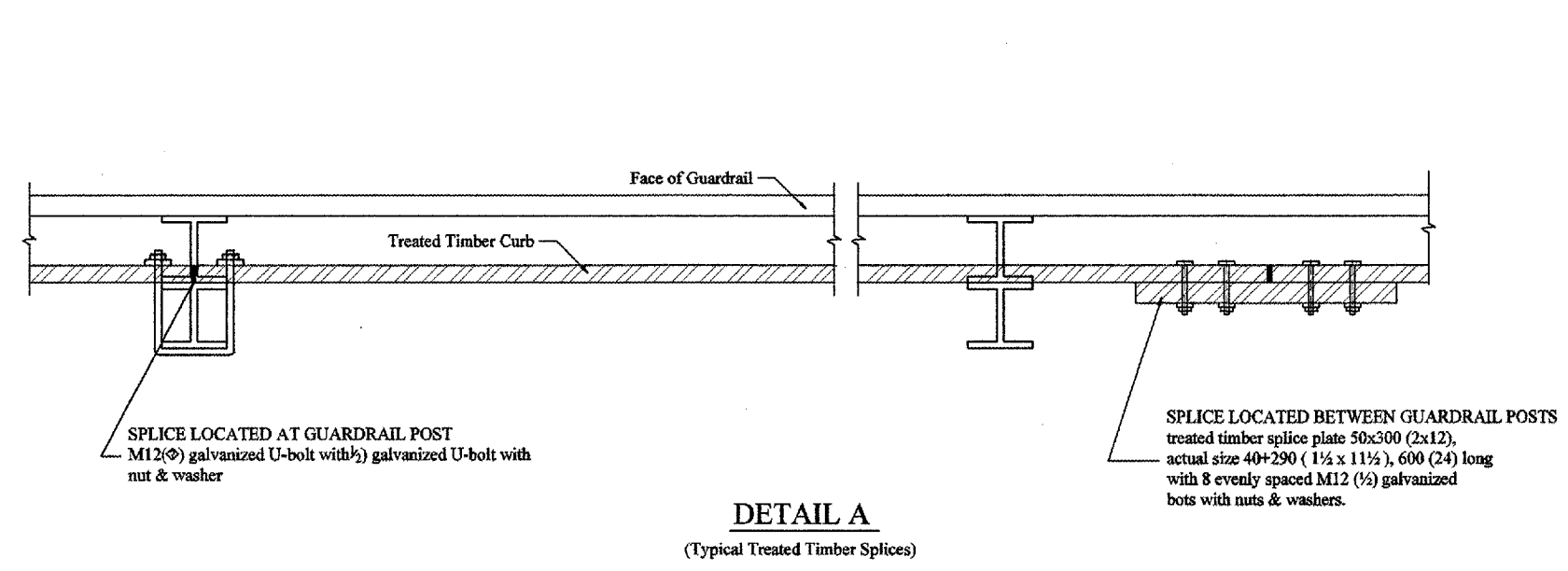
SHEET 1 OF 2  
DRAWN BY CADD  
CHECKED BY

630101-D4(1)

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 610001 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.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	55
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULV EXT/ REPAIR 2006				



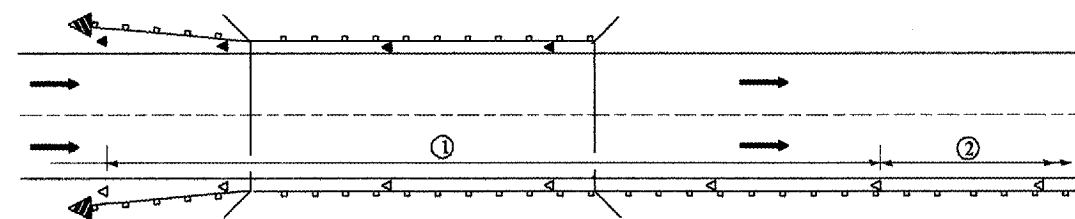
All dimensions are in millimeters (inches) unless otherwise noted.

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

SSDATESS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	56
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

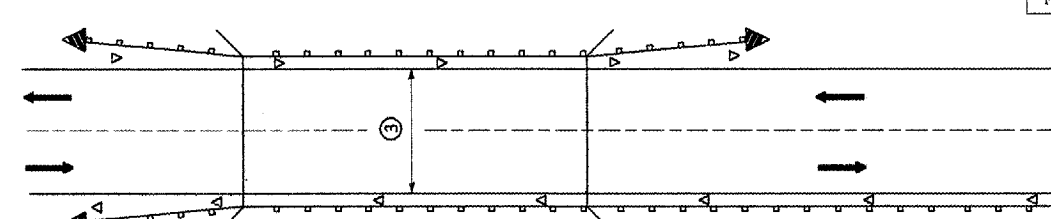
\* D4 CULV EXT/ REPAIR 2006



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**



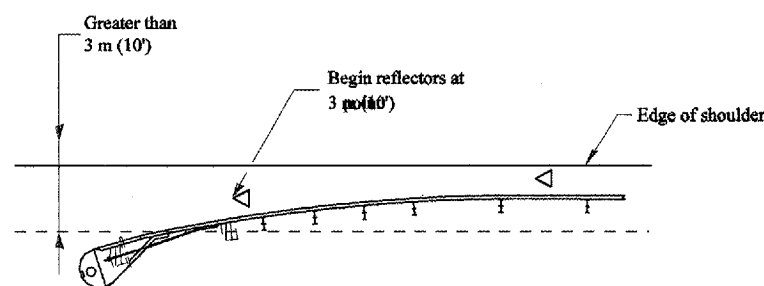
③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 610 (24) wider than the pavement approaching the bridge.

**TWO-WAY TRAFFIC**

**GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS**

**LEGEND**

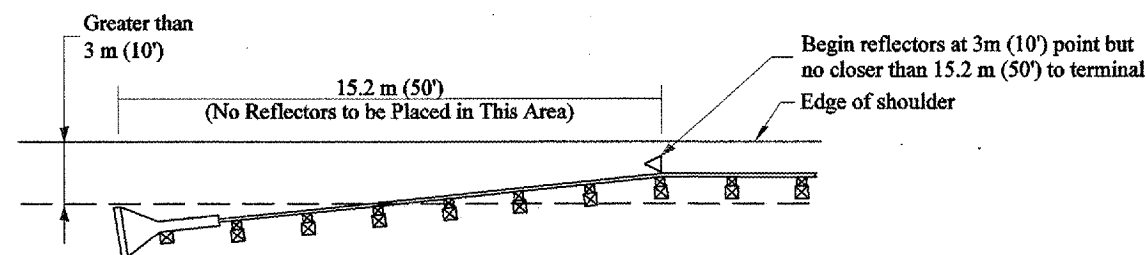
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▴ Terminal Marker - Black/Yellow  
Left or Right as appropriate



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

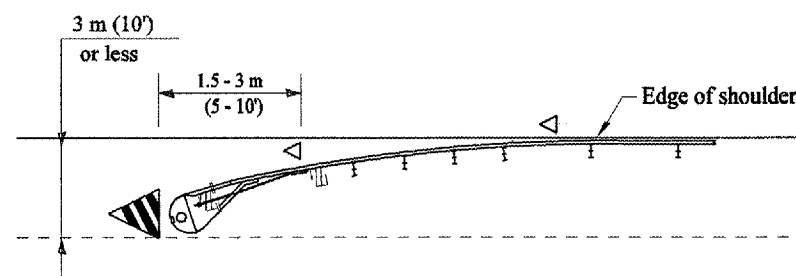
[Terminal over 3 m (10') from edge of shoulder]  
\*See Plans for Type



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

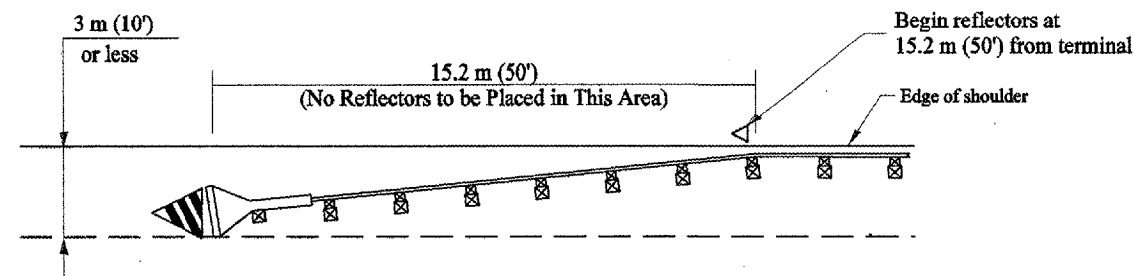
Traffic Barrier Terminal Type 1 (Special)

[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  
DRAWN BY CADD  
SCALE: NOT DRAWN TO SCALE  
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.

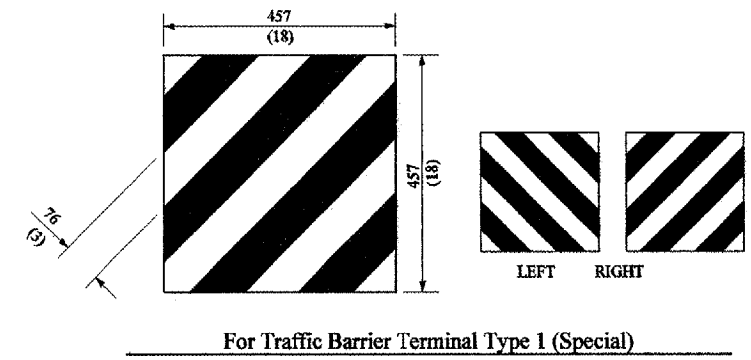
**TERMINAL MARKER PLACEMENT**

**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. 720011.

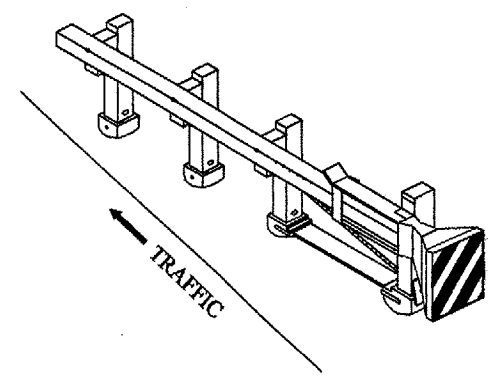
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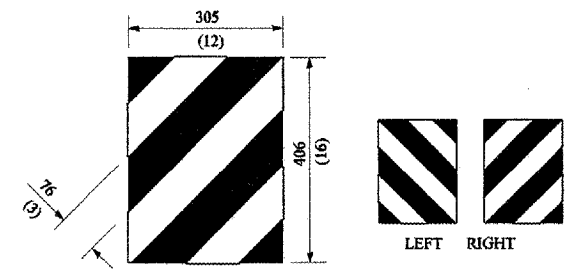
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* D4 CULV EXT/ REPAIR 2006				



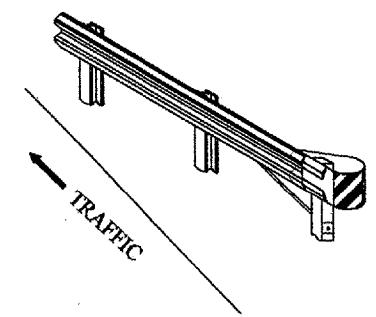
For Traffic Barrier Terminal Type 1 (Special)



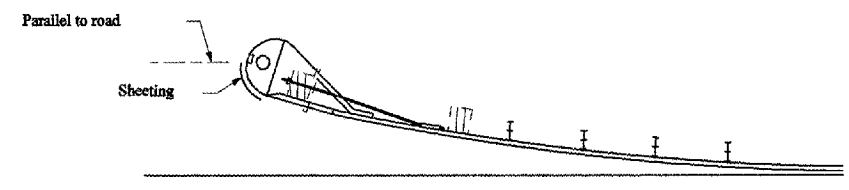
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type 1 (Special)



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



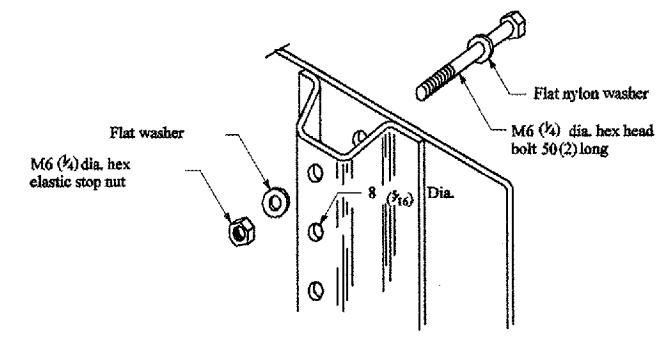
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type (\*)  
\* See Plans for Type



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

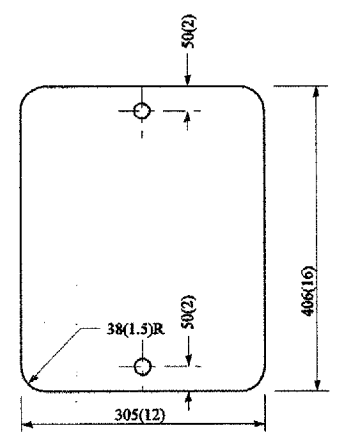
**TERMINAL MARKER DETAILS**

- Color: Black / Yellow reflectorized
- OM - H100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted

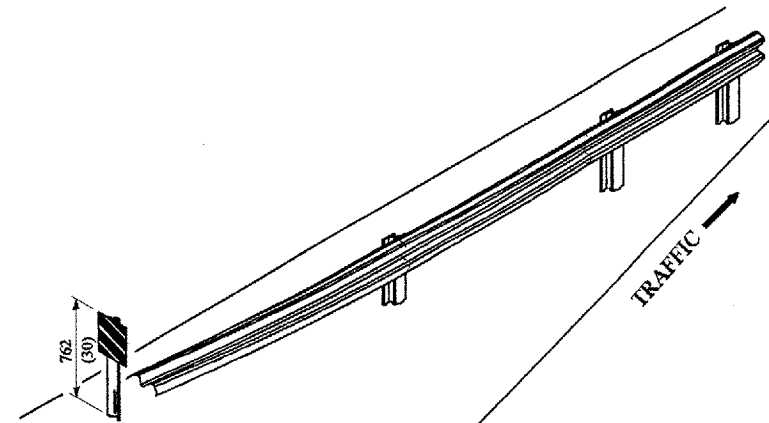


DETAIL OF MOUNTING TERMINAL MARKER TO POST

**POST MOUNTED TERMINAL MARKER ASSEMBLY**



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.

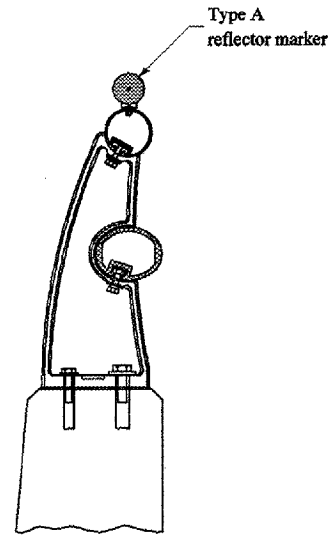
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
<b>GUARDRAIL AND BARRIER WALL DELINEATION</b>	
CADD STD. NO. 635101-D4	SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

\$\$\$\$ATSS\$

\*DGN-ONLY\*

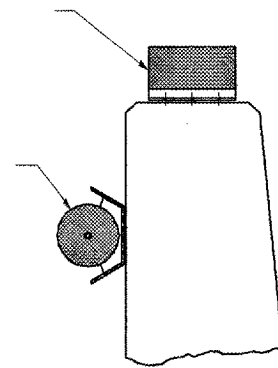
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	58
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* D4 CULV EXT/ REPAIR 2006



TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

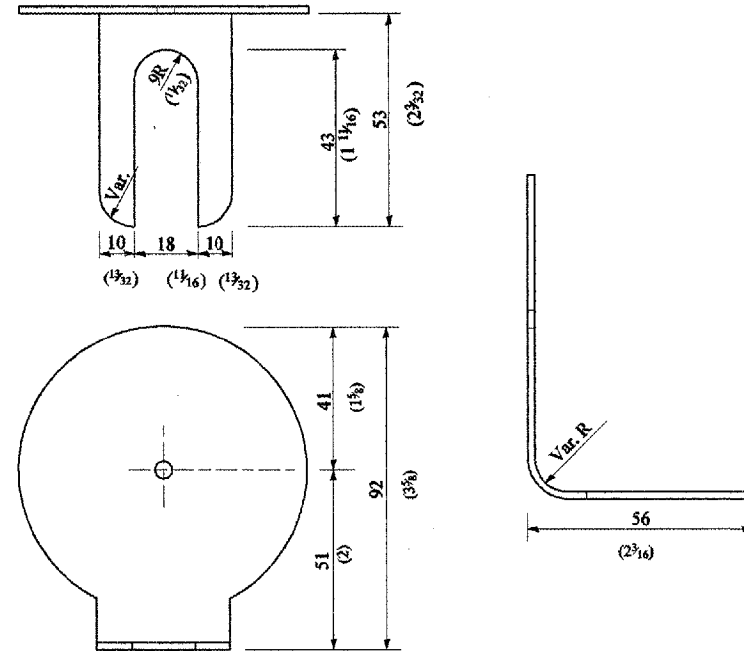
Type B or C reflector marker (type C shown)



Type B or C reflector marker (type B shown)

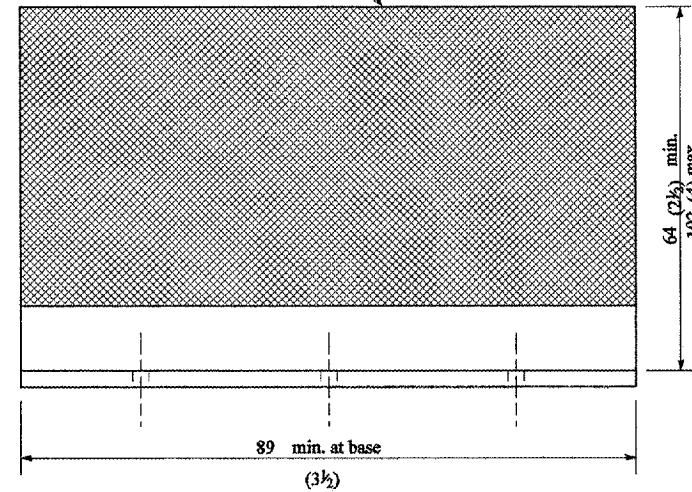
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING



REFLECTOR MARKER TYPE A

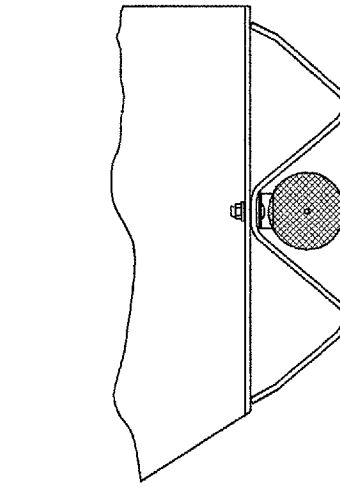
Min. reflective area 4,194 mm<sup>2</sup> (6 1/2 Sq. in.) each side. May be rectangular or slight trapezoid.



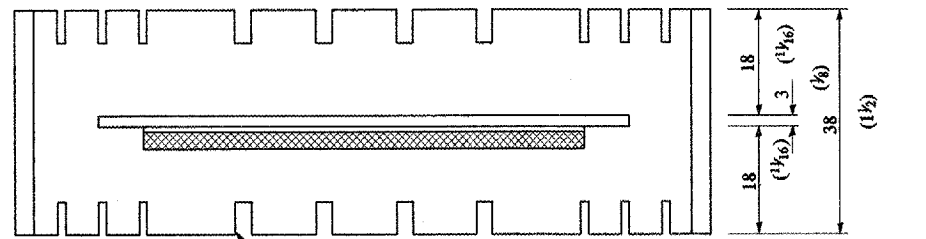
REFLECTOR MARKER TYPE C

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

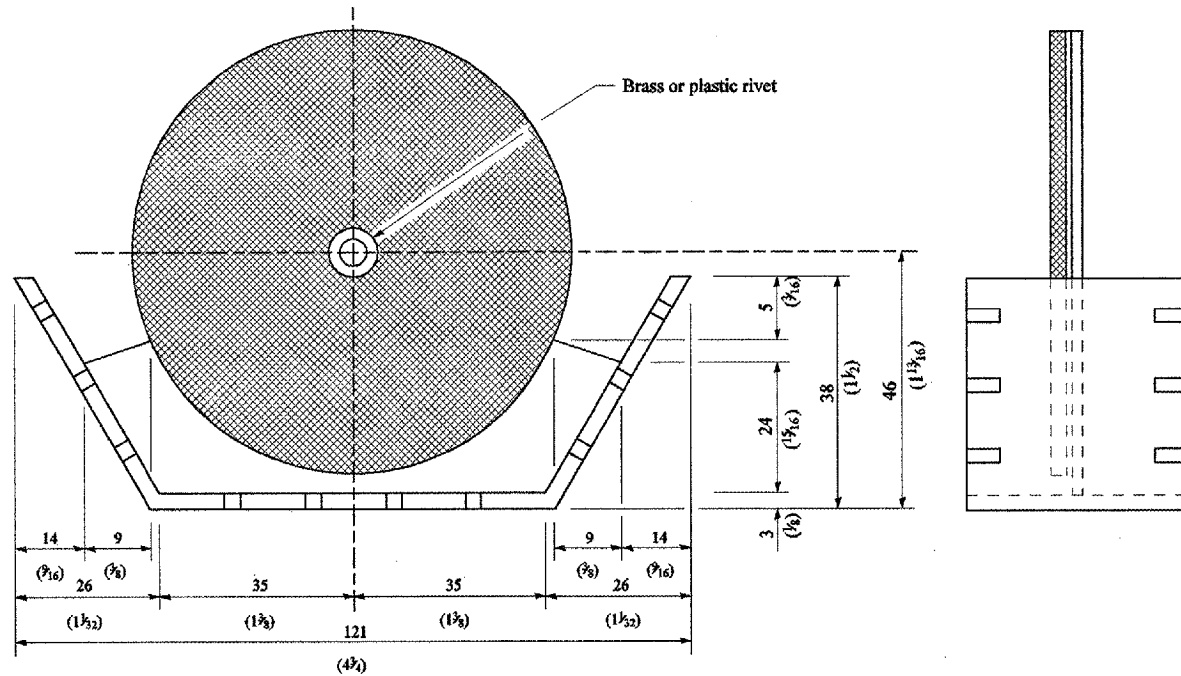
Minimum total area of base 4,516 mm<sup>2</sup> (7.0 Sq. in.)



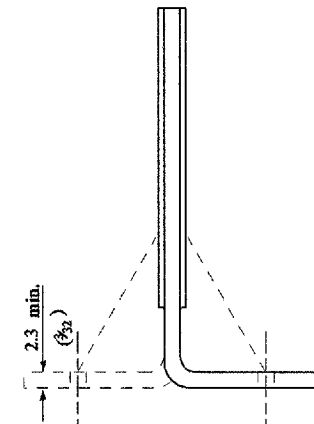
TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Adhesive weep slots or holes equally spaced on both sides



REFLECTOR MARKER TYPE B



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