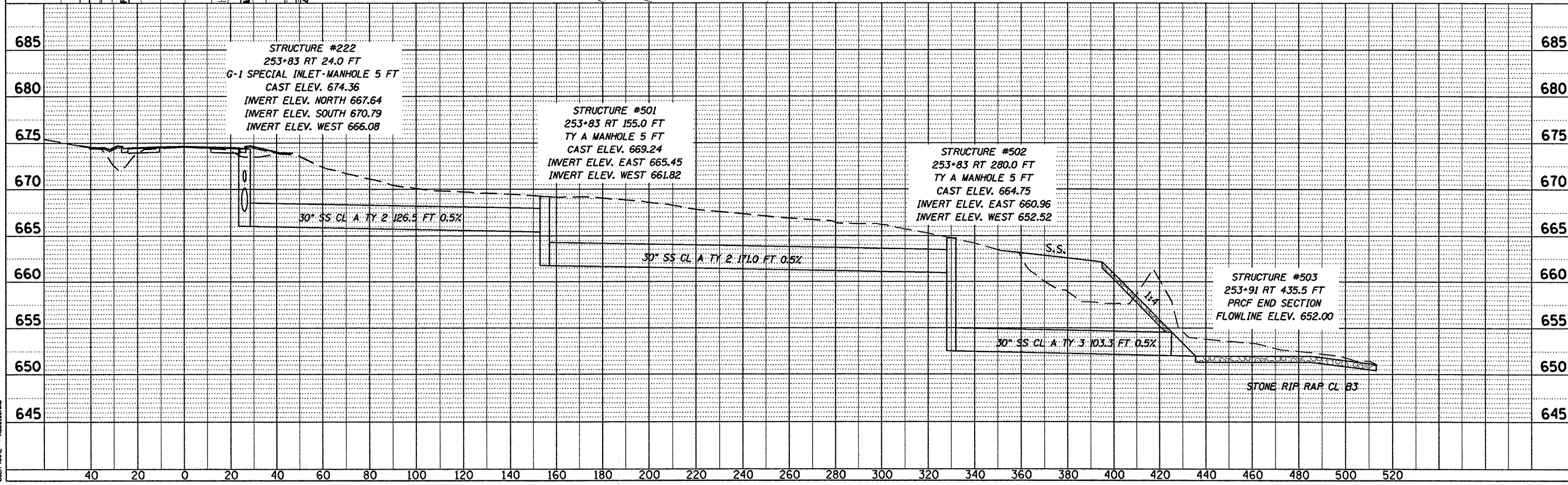
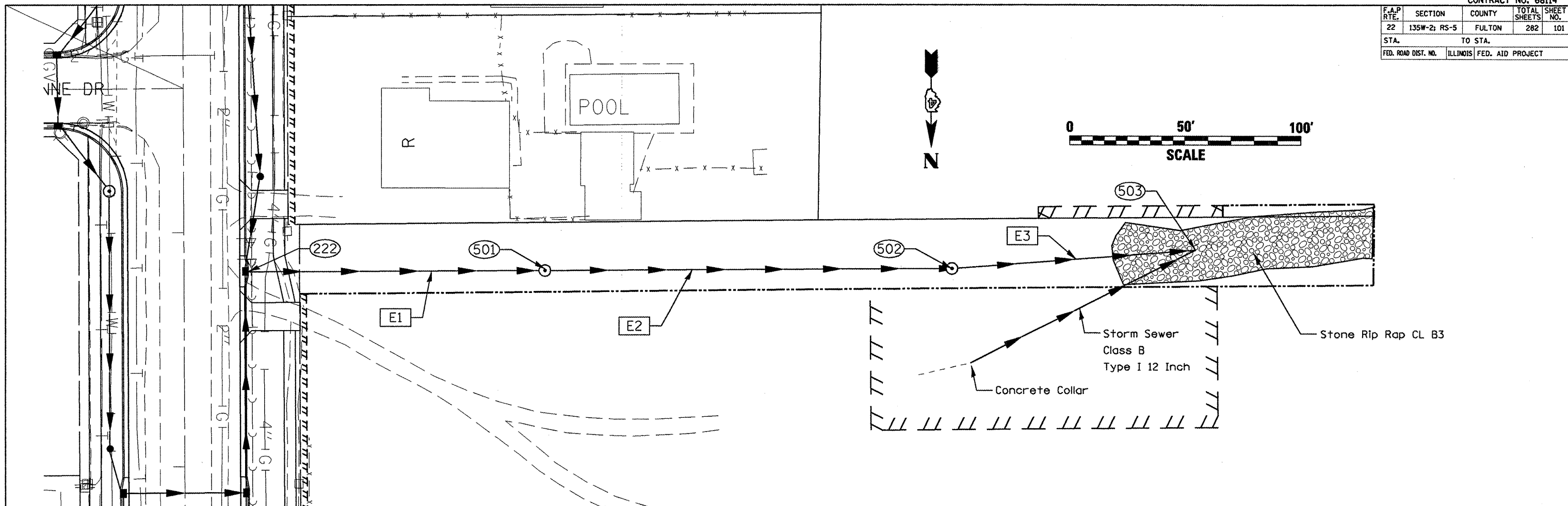


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	101
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

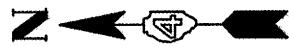
DATE	BY

DATE	BY

PLOT DATE = 8/19/2008
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 USER NAME = hndstern



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	103
STATION TO STATION				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



N 00°37'27" E-2,652.75'

N 00°37'27" E-2,652.75'

E. LINE NE
1/4 SEC. 10

NORTHEAST CORNER OF THE
SOUTHEAST QUARTER SECTION 10

E. LINE SE
1/4 SEC. 10

T7N R4E
NE 1/4 SEC. 10

T7N R4E
SE 1/4 SEC. 10

S. LINE NE
1/4 SEC. 10

FAP 22 (IL 78)

153+99.94
60.00'

154+07.79
60.00'

S 89°13'14" W-2,632.56'

S 89°13'14.36" W 1,341.12'

W LINE NE
1/4 SEC. 10

NORTHWEST CORNER OF THE
SOUTHEAST QUARTER SECTION 10

W LINE SE
1/4 SEC. 10

N 00°32'13" E-2,654.29'

N 00°32'13" E-2,654.30'

APPROVED BY _____
DISTRICT ENGINEER

DATE _____

ii78canton
ii78a-krow.ipf
Jobrow.gpk
row.m32

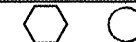
DRAWN BY _____
PCF
WRITTEN BY _____
PCF
CHECKED BY _____
PCF
INSPECTED BY _____
PCF

LEGEND
 EXISTING RIGHT OF WAY —————
 PROPOSED RIGHT OF WAY —————
 TEMPORARY EASEMENT // // // // //

FOR OLD R.O.W. SEE:
PLANFILE: 11 SHEET:45-46

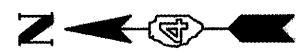
Platfile:

RIGHT OF WAY PLANS	
FAP ROUTE 22 (IL 78)	
PROJECT	SECTION 135W-2; RS-5
STATION	134+50.00 TO
STATION	166+50.00
COUNTY	FULTON
SCALE	1"=100' SHEET 2 OF 7



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	104
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MARLEE ST CURVE DATA
 PI STA. = 7+97.01
 $\Delta = 28^\circ 39' 57''$ (LT)
 $D = 18^\circ 53' 53''$
 $R = 303.18'$
 $T = 77.47'$
 $L = 151.69'$
 $E = 9.74'$
 P.C. STA. = 7+19.55
 P.T. STA. = 8+71.23



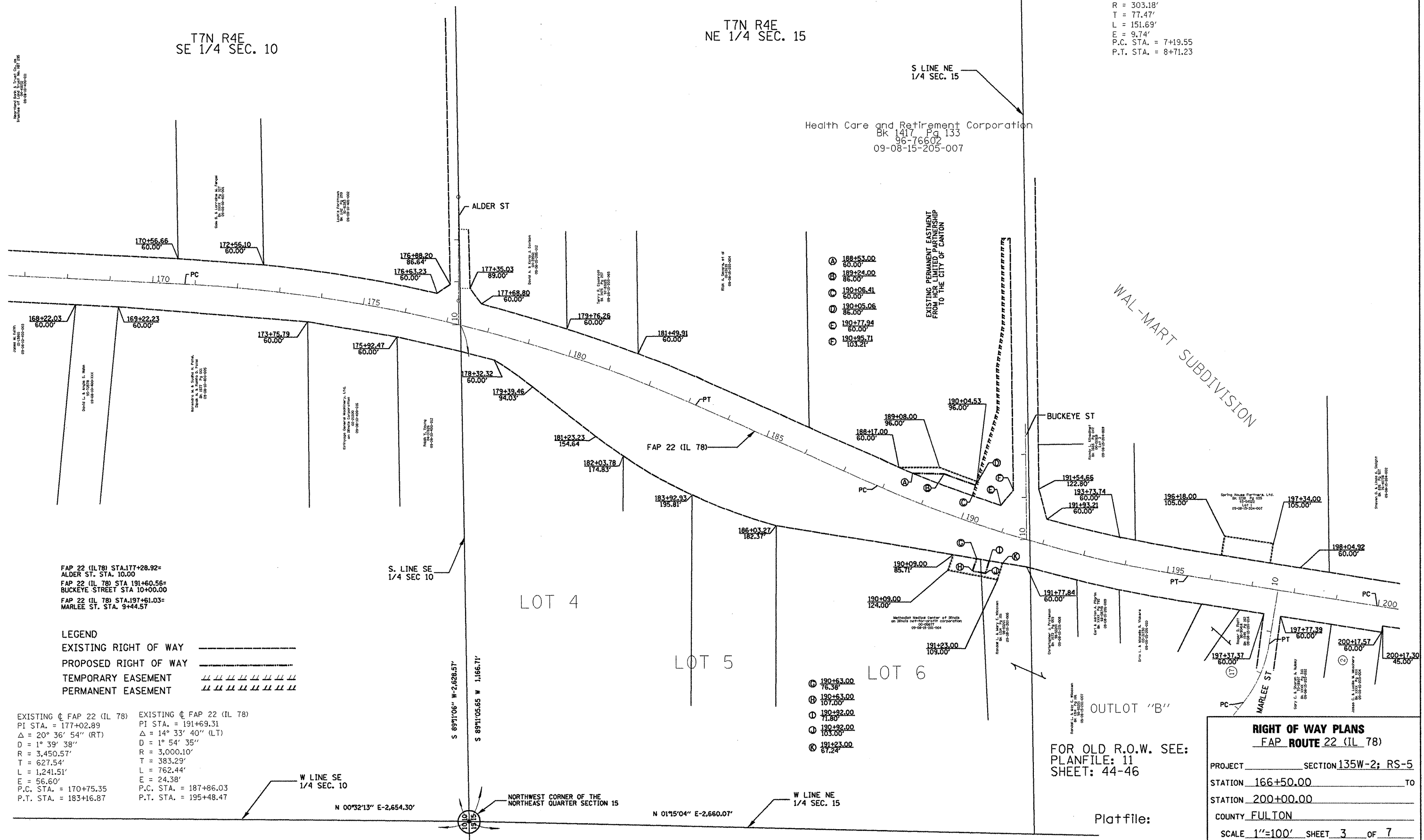
T7N R4E
SE 1/4 SEC. 10

T7N R4E
NE 1/4 SEC. 15

APPROVED BY _____ DISTRICT ENGINEER
DATE _____

i178canton
i178a-krow.ipf
Jobrow.gpk
row.m32

DRAWN BY _____ PCF
 WRITTEN BY _____ PCF
 CHECKED BY _____ PCF
 INSPECTED BY _____ PCF



FAP 22 (IL 78) STA.177+28.92=
 ALDER ST. STA. 10.00
 FAP 22 (IL 78) STA.191+60.56=
 BUCKEY STREET STA 10+00.00
 FAP 22 (IL 78) STA.197+61.03=
 MARLEE ST. STA. 9+44.57

LEGEND
 EXISTING RIGHT OF WAY _____
 PROPOSED RIGHT OF WAY _____
 TEMPORARY EASEMENT _____
 PERMANENT EASEMENT _____

EXISTING \odot FAP 22 (IL 78)
 PI STA. = 177+02.89
 $\Delta = 20^\circ 36' 54''$ (RT)
 $D = 1^\circ 39' 38''$
 $R = 3,450.57'$
 $T = 627.54'$
 $L = 1,241.51'$
 $E = 56.60'$
 P.C. STA. = 170+75.35
 P.T. STA. = 183+16.87

EXISTING \odot FAP 22 (IL 78)
 PI STA. = 191+69.31
 $\Delta = 14^\circ 33' 40''$ (LT)
 $D = 1^\circ 54' 35''$
 $R = 3,000.10'$
 $T = 383.29'$
 $L = 762.44'$
 $E = 24.38'$
 P.C. STA. = 187+86.03
 P.T. STA. = 195+48.47

W LINE SE
1/4 SEC. 10

S 89°11'06" W 2,628.57'
 S 89°11'05.65 W 1,166.71'

NORTHWEST CORNER OF THE
NORTHEAST QUARTER SECTION 15

N 01°15'04" E-2,660.07'

W LINE NE
1/4 SEC. 15

- Ⓐ 188+53.00
60.00'
- Ⓑ 189+24.00
86.00'
- Ⓒ 190+06.41
60.00'
- Ⓓ 190+05.06
86.00'
- Ⓔ 190+77.94
60.00'
- Ⓕ 190+95.71
103.21'

- Ⓖ 190+63.00
76.38'
- Ⓗ 190+63.00
107.00'
- Ⓘ 190+92.00
71.80'
- Ⓚ 190+82.00
103.00'
- Ⓛ 191+23.00
67.24'

S LINE NE
1/4 SEC. 15

Health Care and Retirement Corporation
Bk 1417 Pg 133
96-76602
09-08-15-205-007

EXISTING PERMANENT EASTMENT
FRONT OF THE LIMITED PARTNERSHIP
TO THE CITY OF CANTON

WAL-MART SUBDIVISION

BUCKEY ST

OUTLOT "B"

FOR OLD R.O.W. SEE:
PLANFILE: 11
SHEET: 44-46

Platfile:

RIGHT OF WAY PLANS
FAP ROUTE 22 (IL 78)

PROJECT _____ SECTION 135W-2; RS-5

STATION 166+50.00 TO

STATION 200+00.00

COUNTY FULTON

SCALE 1"=100' SHEET 3 OF 7

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	105
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXIST. C FAP 22 (IL 78) CURVE DATA
 PI STA. = 205+57.46
 $\Delta = 11^\circ 14' 41''$ (LT)
 $D = 1^\circ 00' 23''$
 $R = 5,693.62'$
 $T = 560.51'$
 $L = 1,117.42'$
 $E = 27.52'$
 P.C. STA. = 199+96.95
 P.T. STA. = 211+14.37

PROPOSED C FAP 22 (IL 78) CURVE DATA
 PI STA. = 229+38.93
 $\Delta = 7^\circ 25' 59''$ (RT)
 $D = 1^\circ 14' 03''$
 $R = 4,642.38'$
 $T = 301.55'$
 $L = 602.26'$
 $E = 9.78'$
 P.C. STA. = 226+37.38
 P.T. STA. = 232+39.64



NE 1/4 SEC. 15

T7N R4E
SE 1/4 SEC. 15

S LINE SE
1/4 SEC. 15

N. LINE OF THE
NE 1/4 SEC. 22

APPROVED BY _____ DISTRICT ENGINEER
DATE _____

i178canton
i178a-krow.ipf
Jobrow.gpk
row.m32

DRAWN BY PCF
WRITTEN BY PCF
CHECKED BY PCF
INSPECTED BY PCF

FAP 22 (IL 78) STA. 205+38.55 =
CYPRESS ST. EAST STA. 10+00.00
FAP 22 (IL 78) STA. 205+59.15 =
CYPRESS ST. WEST STA. 10+00.00
FAP 22 (IL 78) STA. 231+78.19 =
LAKELAND DRIVE STA 10+00.00

LEGEND
EXISTING RIGHT OF WAY _____
PROPOSED RIGHT OF WAY _____
TEMPORARY EASEMENT // // // // // // //

FOR OLD R.O.W. SEE:
PLANFILE: 11 SHEET: 46

Platfile:

RIGHT OF WAY PLANS
FAP ROUTE 22 (IL 78)

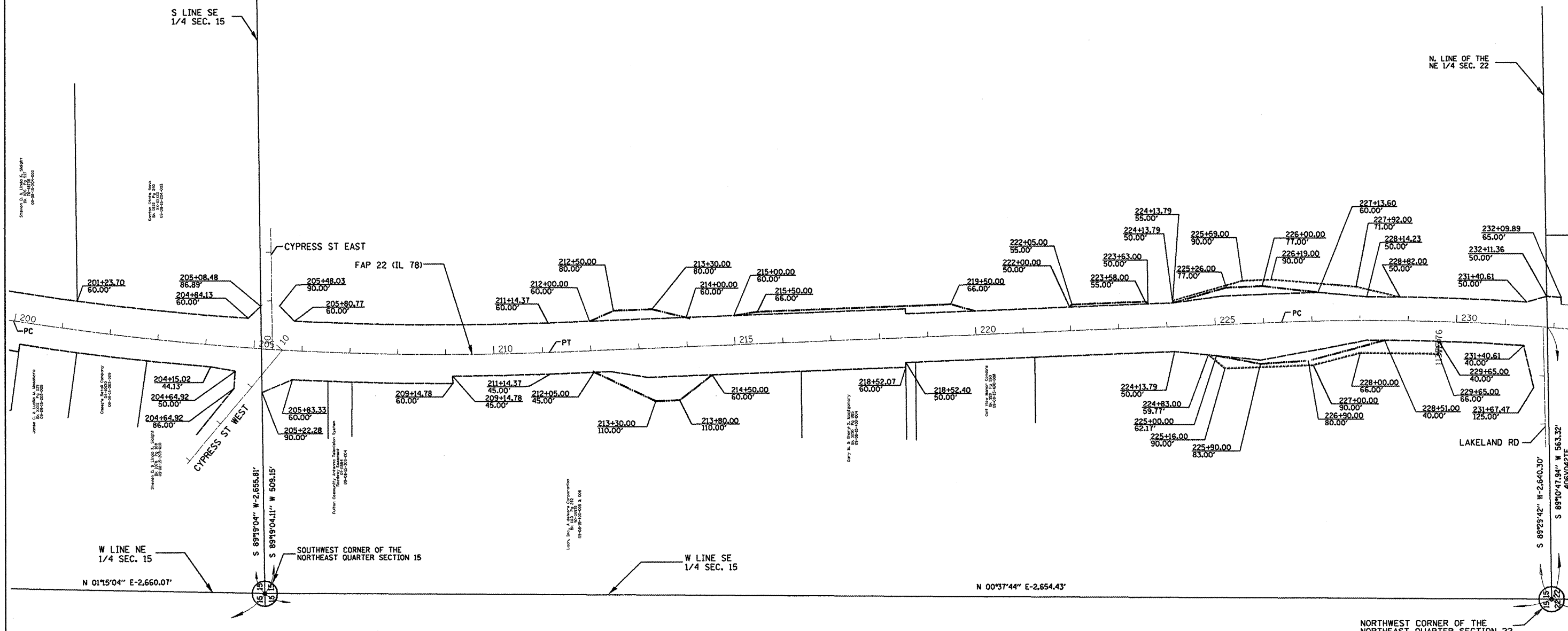
PROJECT _____ SECTION 135W-2; RS-5

STATION 200+00.00 TO _____

STATION 231+00.00 _____

COUNTY FULTON

SCALE 1"=100' SHEET 4 OF 7



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	106

EXISTING C FAP 22 (IL 78)
 CURVE DATA
 PI STA. = 229+38.93
 $\Delta = 7^{\circ} 25' 59''$ (RT)
 $D = 1^{\circ} 14' 03''$
 $R = 4,642.38'$
 $T = 301.55'$
 $L = 602.26'$
 $E = 9.78'$
 P.C. STA. = 226+37.38
 P.T. STA. = 232+39.64

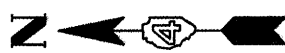
EXISTING C FAP 22 (IL 78)
 CURVE DATA
 PI STA. = 240+85.00
 $\Delta = 5^{\circ} 26' 12''$ (LT)
 $D = 0^{\circ} 56' 12''$
 $R = 6,117.28'$
 $T = 290.45'$
 $L = 580.46'$
 $E = 6.89'$
 P.C. STA. = 237+94.55
 P.T. STA. = 243+75.01

FAP 22 (IL 78) STA 239+36.39= HARVESTER ROAD STA 10+00.00
 FAP 22 (IL 78) STA 246+33.00= LINCOLN ROAD STA 10+00.00
 FAP 22 (IL 78) STA 251+26.61= STONEGATE DRIVE STA 10+00.00
 FAP 22 (IL 78) STA 254+61.63= ARGONNE DRIVE STA 10+00.00
 FAP 22 (IL 78) STA 260+98.43= EDMAR DRIVE STA 10+00.00

T7N R4E NE 1/4 SEC. 22

SE 1/4 SEC. 22

NW 1/4 SEC. 22



APPROVED BY _____ DISTRICT ENGINEER
DATE _____

DRAWN BY PCF
WRITTEN BY PCF
CHECKED BY PCF
INSPECTED BY PCF

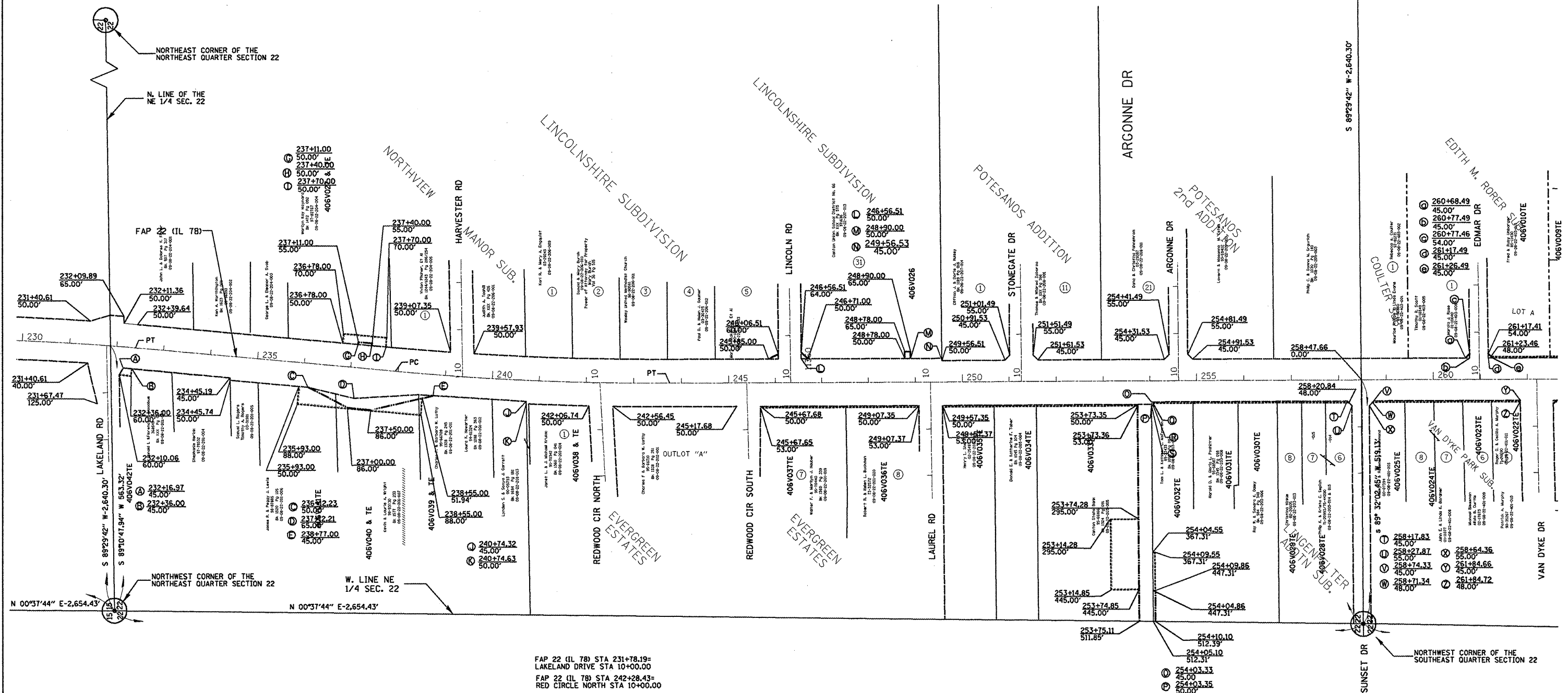
LEGEND
 EXISTING RIGHT OF WAY _____
 PROPOSED RIGHT OF WAY _____
 TEMPORARY EASEMENT // // // // // // // //

FOR OLD R.O.W. SEE: PLANFILE: 11 SHEET: 47-48

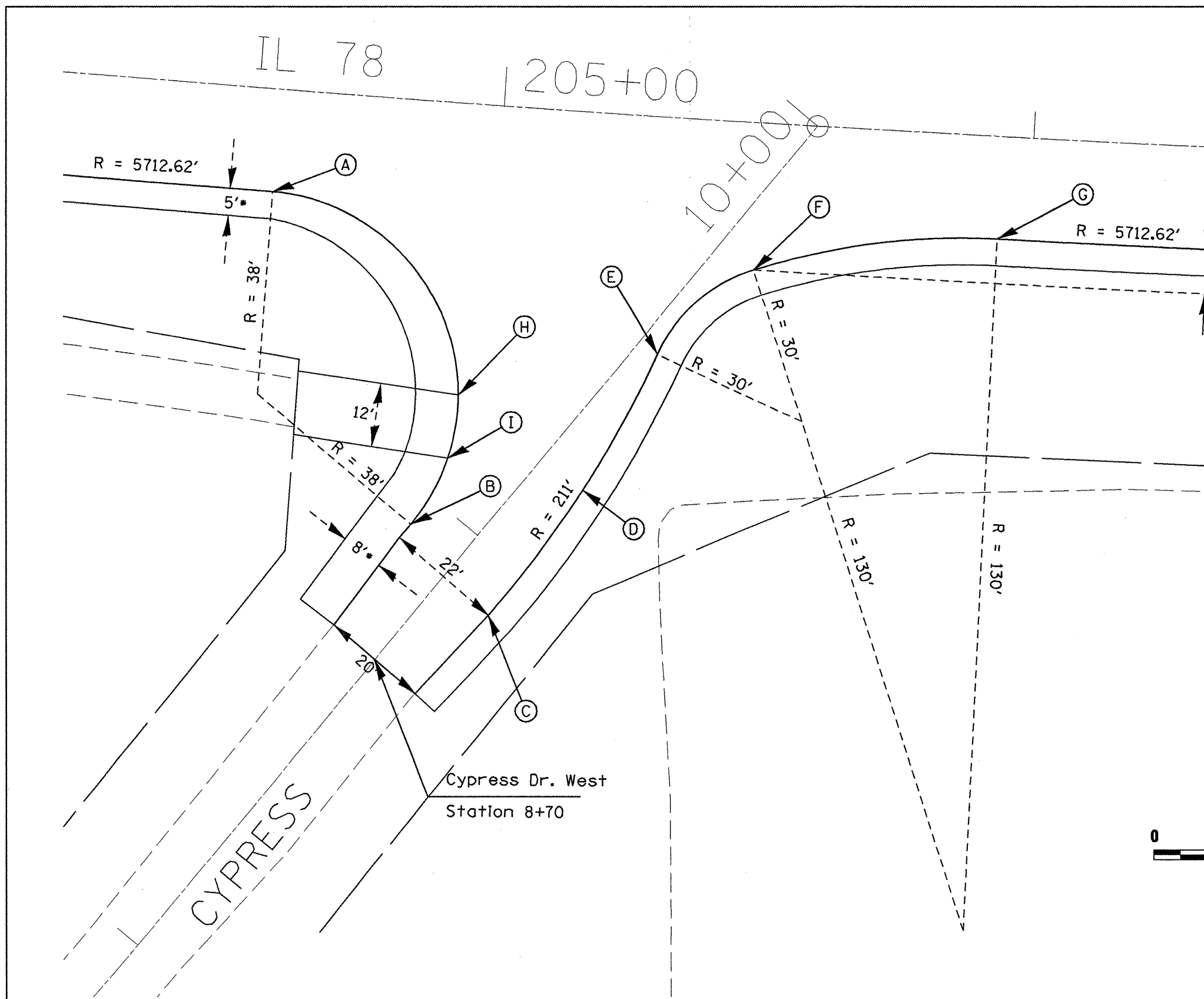
Plat file:

RIGHT OF WAY PLANS
FAP ROUTE 22 (IL 78)

PROJECT _____ SECTION 135W-2; RS-5
 STATION 231+00.00 TO _____
 STATION 262+54.66
 COUNTY FULTON
 SCALE 1"=100' SHEET 5 OF 7



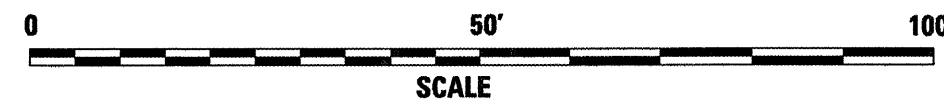
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	108
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



HORIZONTAL CONTROL

POINT	STATION/OFFSET (IL 78)	STATION/OFFSET (Cypress Dr. West)
A	204+57.4 19.0' RT	-----
B	204+87.8 79.4' RT	8+93.7 11.0' LT
C	205+94.2 19.0' RT	8+89.2 11.0' RT
D	205+19.2 70.7' RT	9+19.2 9.5' RT
E	205+48.9 27.5' RT	9+48.0 4.1' RT
F	205+31.9 44.4' RT	9+71.8 7.9' RT
G	205+03.4 95.3' RT	-----
H	204+95.1 54.5' RT	9+18.0 19.7' LT
I	204+94.0 66.4' RT	9+07.7 13.6' LT

NOTE: ALL STATIONS/OFFSETS FROM CENTERLINE



*NOTE: bituminous shoulder transitions from 5' wide to 8' wide from point A to point H along radius.

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 USER NAME = hudson

REVISIONS	
NAME	DATE

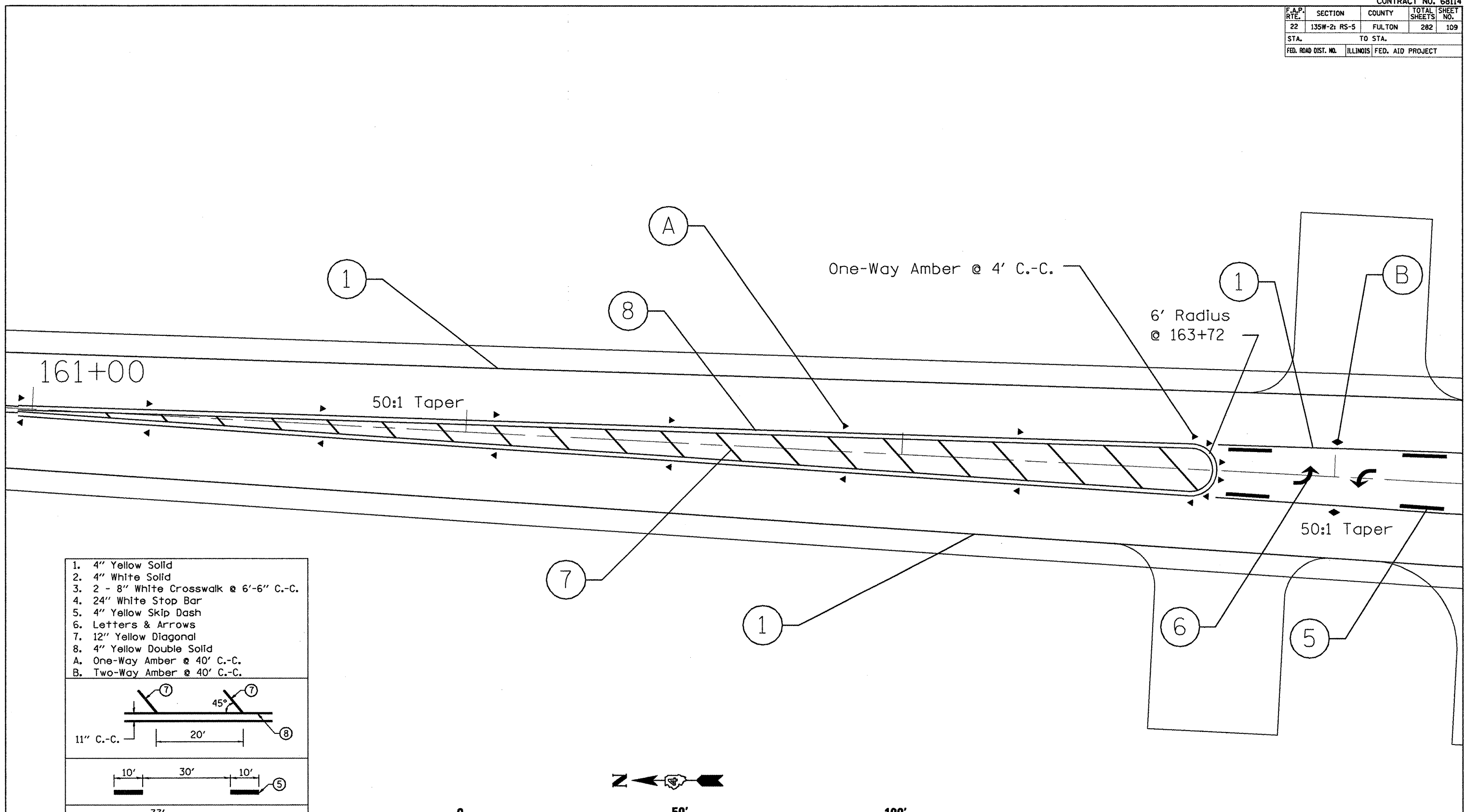
ILLINOIS DEPARTMENT OF TRANSPORTATION

**Intersection Detail
Cypress Drive (West)**

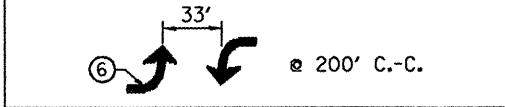
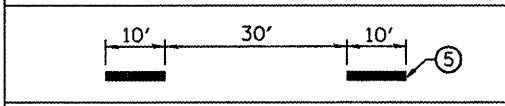
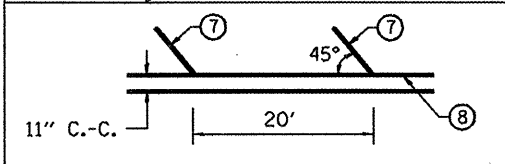
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 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	109
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- 1. 4" Yellow Solid
- 2. 4" White Solid
- 3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
- 4. 24" White Stop Bar
- 5. 4" Yellow Skip Dash
- 6. Letters & Arrows
- 7. 12" Yellow Diagonal
- 8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings Detail

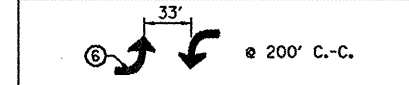
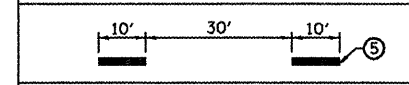
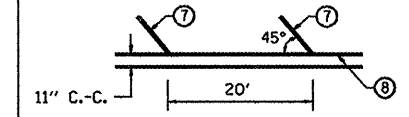
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DATE _____ DRAWN BY _____
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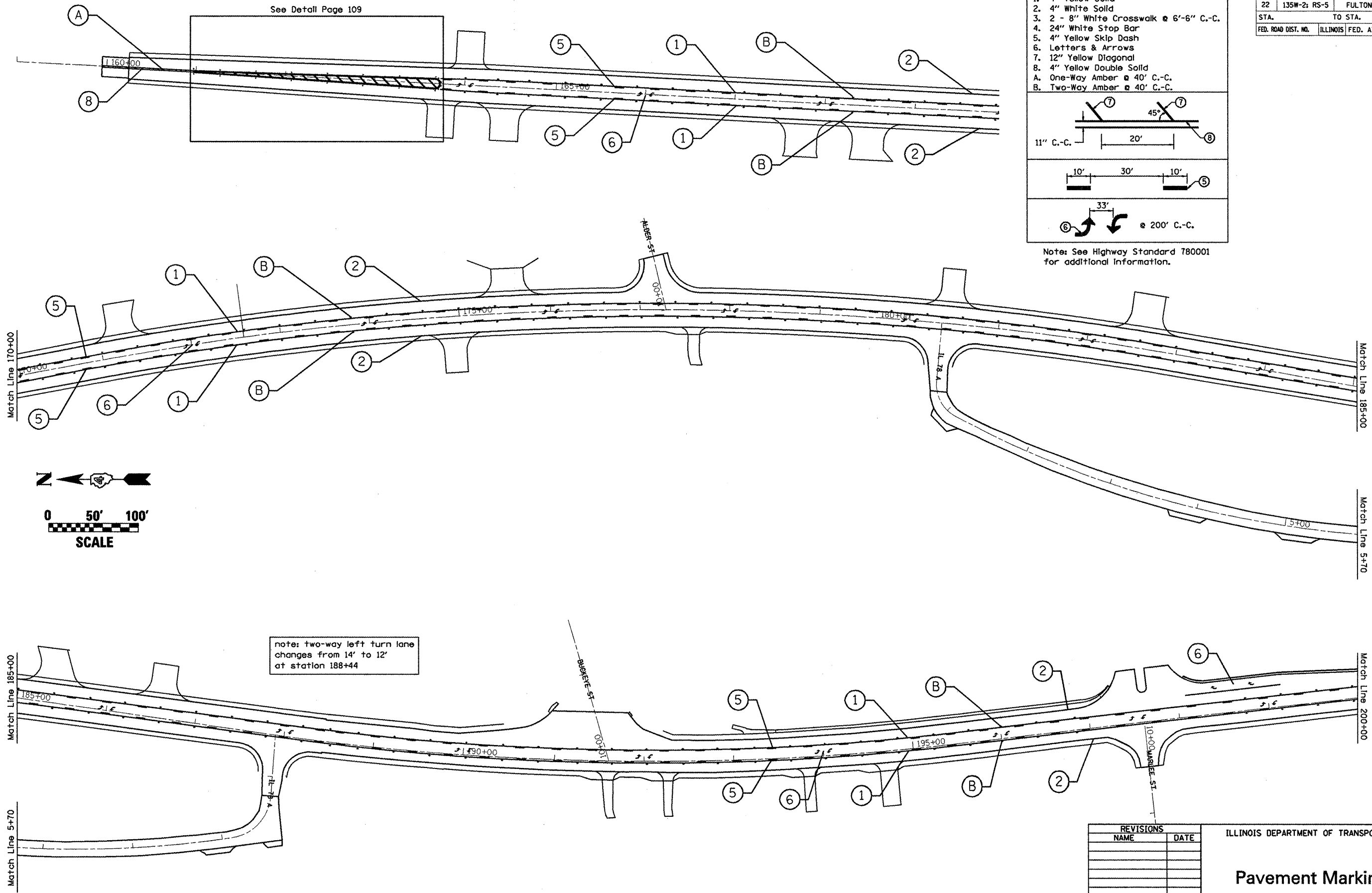
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	110
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

1. 4" Yellow Solid
2. 4" White Solid
3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
4. 24" White Stop Bar
5. 4" Yellow Skip Dash
6. Letters & Arrows
7. 12" Yellow Diagonal
8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.



note: two-way left turn lane changes from 14' to 12' at station 188+44

REVISIONS	
NAME	DATE

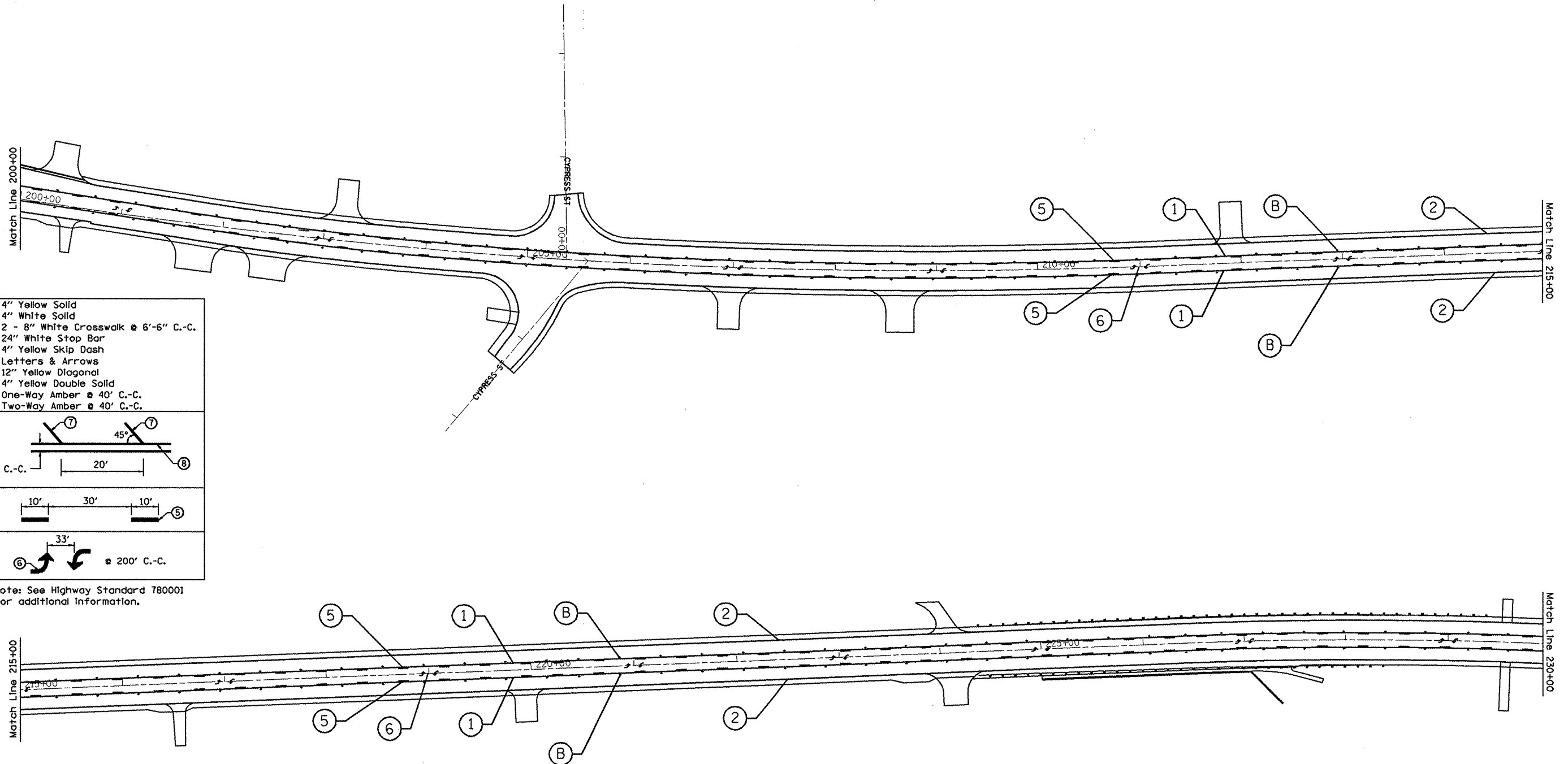
ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

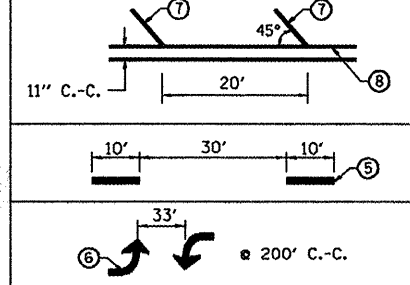
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 DATE _____

DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	111
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

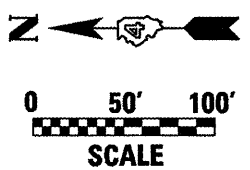


- 1. 4" Yellow Solid
- 2. 4" White Solid
- 3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
- 4. 24" White Stop Bar
- 5. 4" Yellow Skip Dash
- 6. Letters & Arrows
- 7. 12" Yellow Diagonal
- 8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.

note: two-way left turn lane changes from 12' to 14' at station 200+71



PLOT DATE = 8/16/2009
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

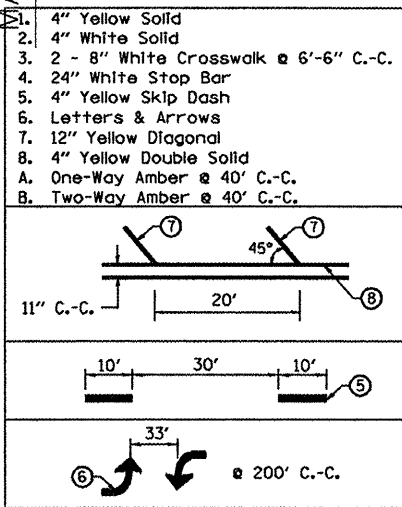
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DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	112
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MATCHLINE STA 230+00

MATCHLINE STA 236+00



Note: See Highway Standard 780001 for additional information.



MATCHLINE STA 236+00

MATCHLINE STA 242+00

HARVESTER RD

R=30 R=30

REVISIONS	
NAME	DATE

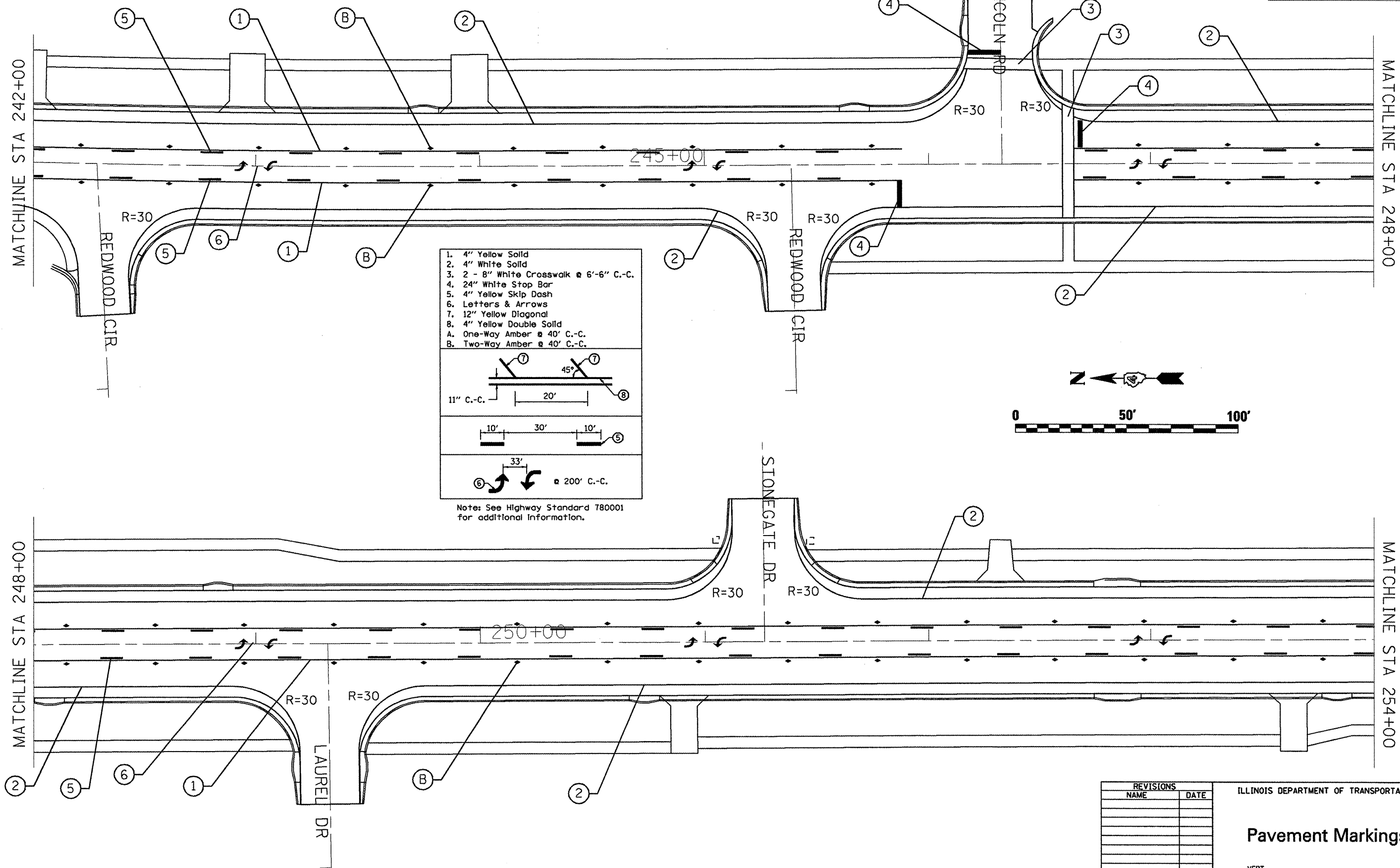
ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

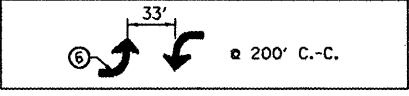
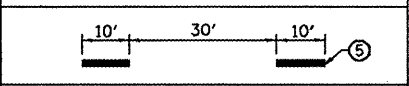
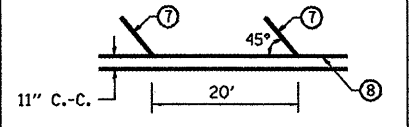
SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

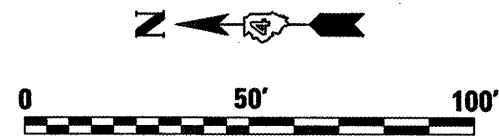
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	113
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- 1. 4" Yellow Solid
- 2. 4" White Solid
- 3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
- 4. 24" White Stop Bar
- 5. 4" Yellow Skip Dash
- 6. Letters & Arrows
- 7. 12" Yellow Diagonal
- 8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.



PLOT DATE = 8/18/2008
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 REFERENCE = #REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

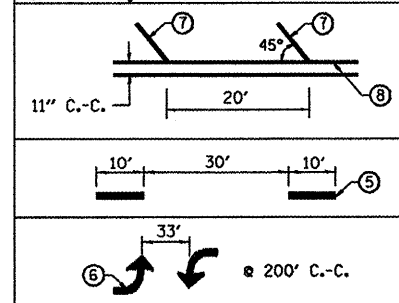
Pavement Markings

SCALE: VERT. _____
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 DATE _____

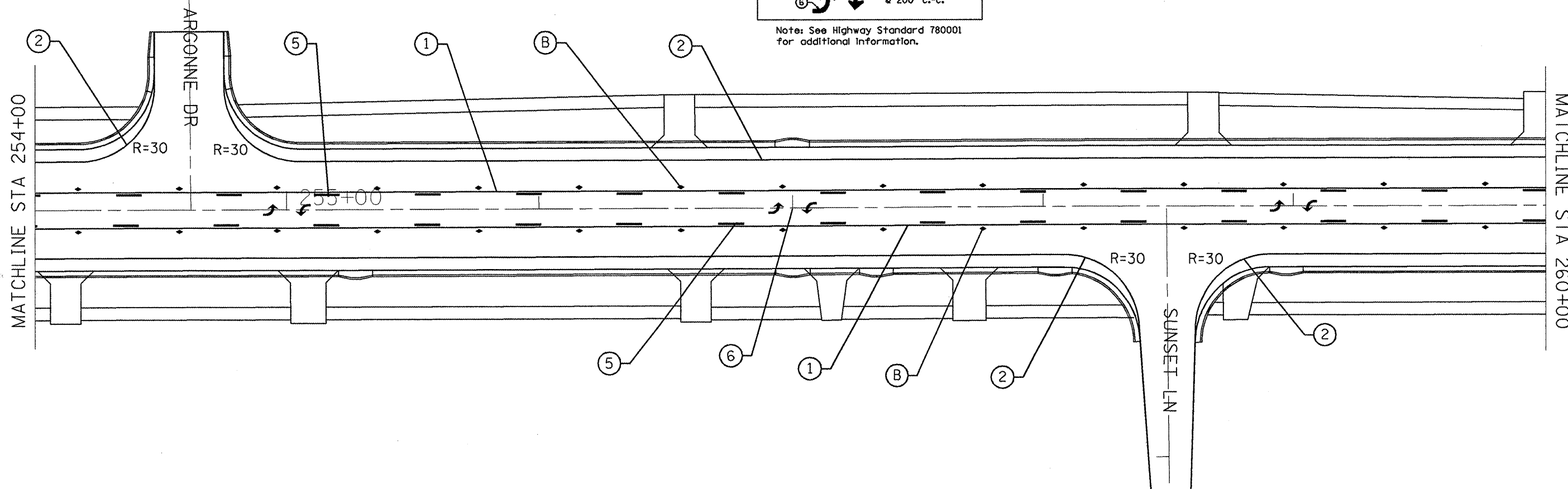
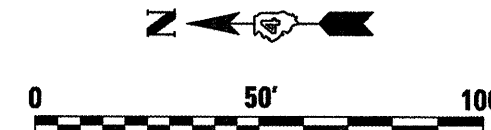
DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	114
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

1. 4" Yellow Solid
2. 4" White Solid
3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
4. 24" White Stop Bar
5. 4" Yellow Skip Dash
6. Letters & Arrows
7. 12" Yellow Diagonal
8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.



PLOT DATE = 8/18/2008
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REVISIONS	
NAME	DATE

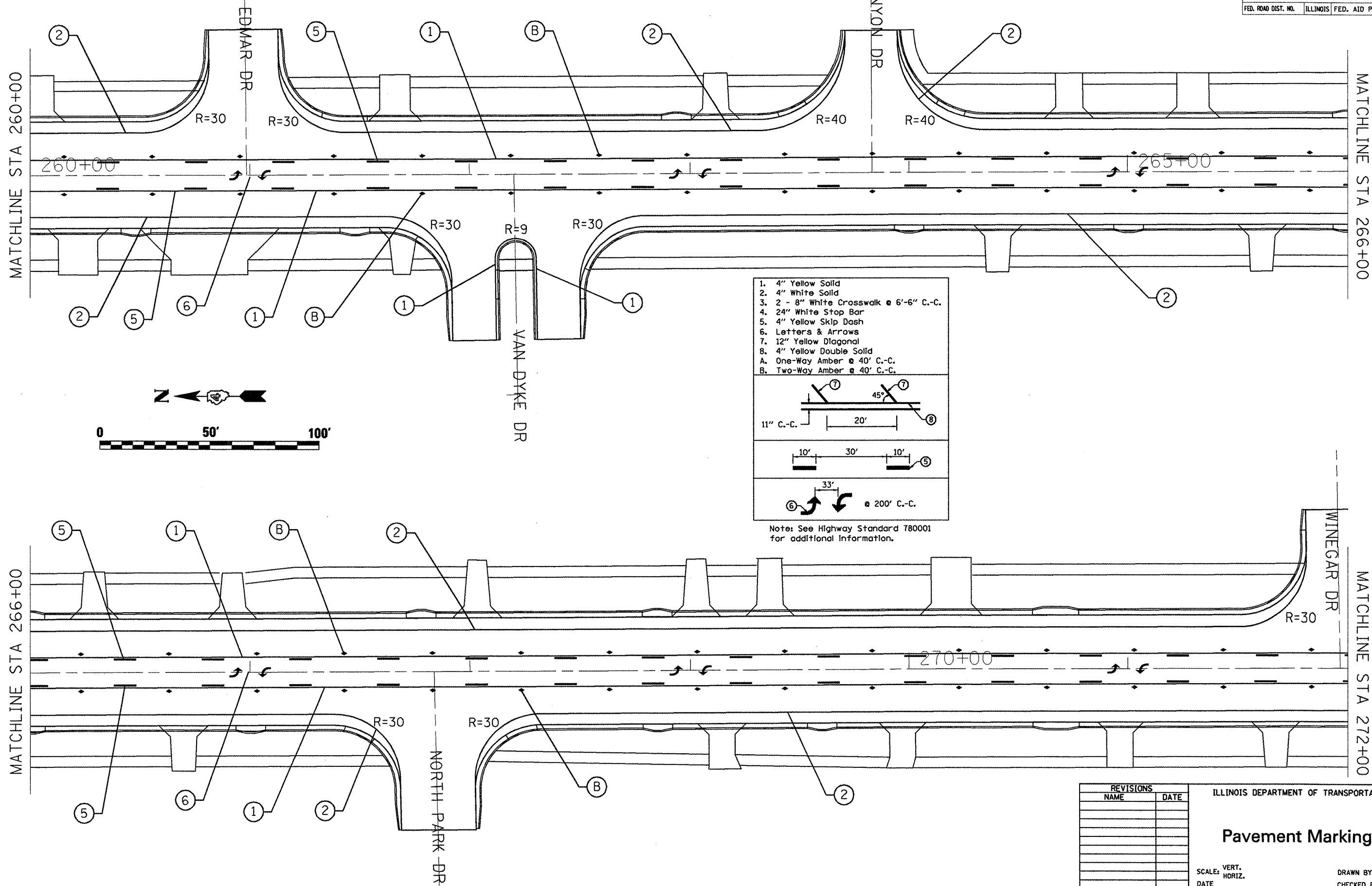
ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

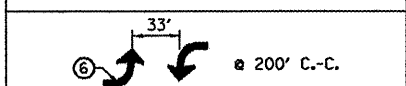
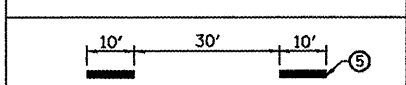
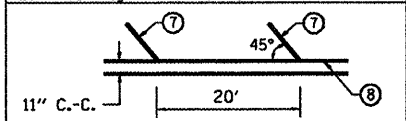
SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

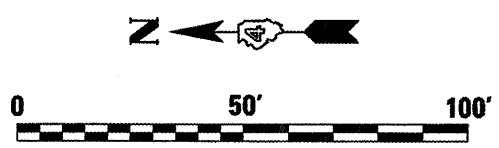
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	115
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- 1. 4" Yellow Solid
- 2. 4" White Solid
- 3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
- 4. 24" White Stop Bar
- 5. 4" Yellow Skip Dash
- 6. Letters & Arrows
- 7. 12" Yellow Diagonal
- 8. 4" Yellow Double Solid
- A. One-Way Amber @ 40' C.-C.
- B. Two-Way Amber @ 40' C.-C.



Note: See Highway Standard 780001 for additional information.



PLOT DATE = 8/15/2008
 FILE NAME = \\176bentley\genera2\dgn
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REVISIONS	
NAME	DATE

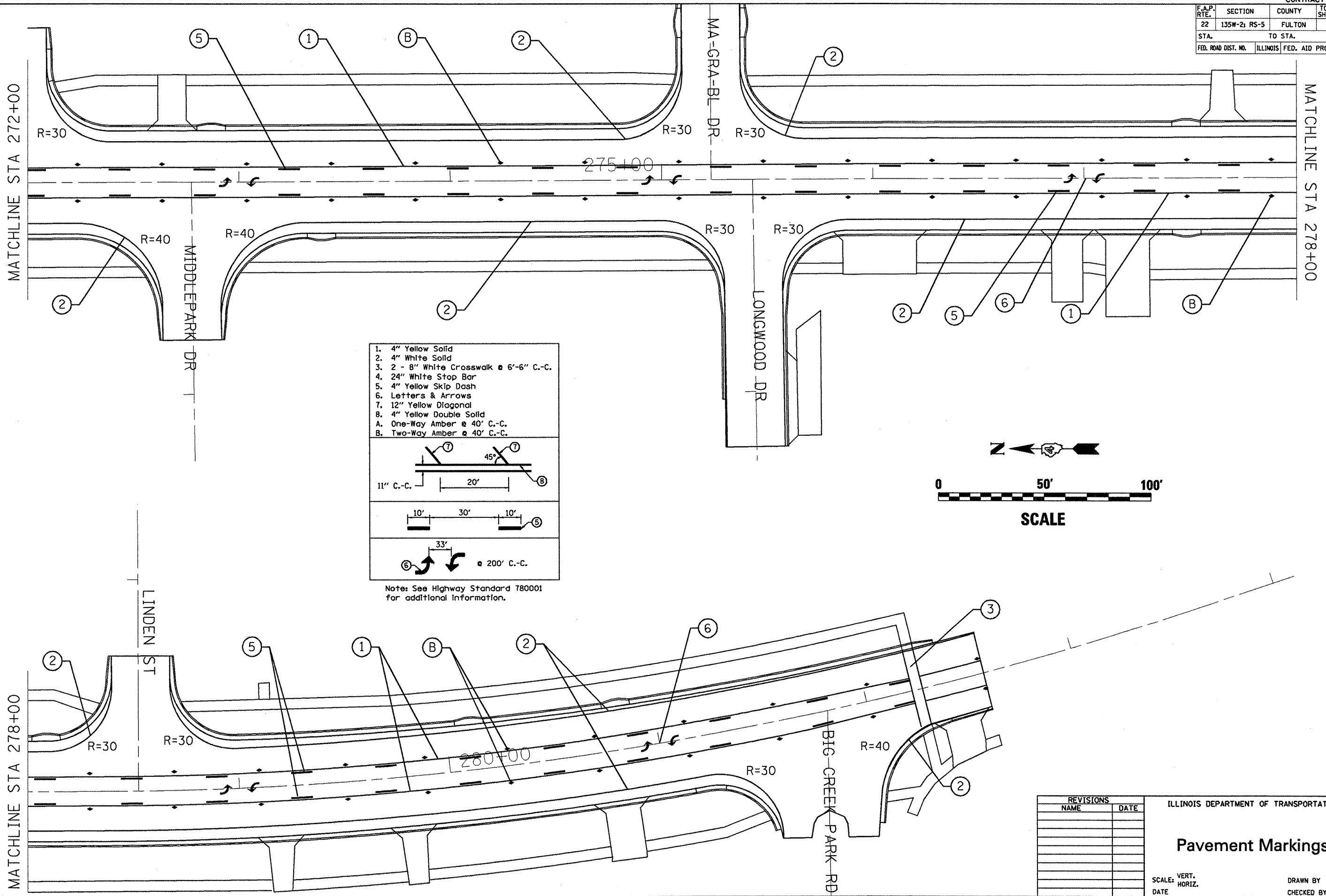
ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

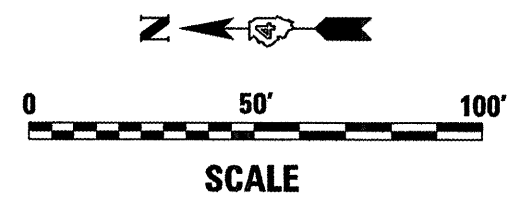
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 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	116
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



1. 4" Yellow Solid
2. 4" White Solid
3. 2 - 8" White Crosswalk @ 6'-6" C.-C.
4. 24" White Stop Bar
5. 4" Yellow Skip Dash
6. Letters & Arrows
7. 12" Yellow Diagonal
8. 4" Yellow Double Solid
A. One-Way Amber @ 40' C.-C.
B. Two-Way Amber @ 40' C.-C.

Note: See Highway Standard 780001 for additional information.



PLOT DATE = 8/18/2008
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REVISIONS	
NAME	DATE

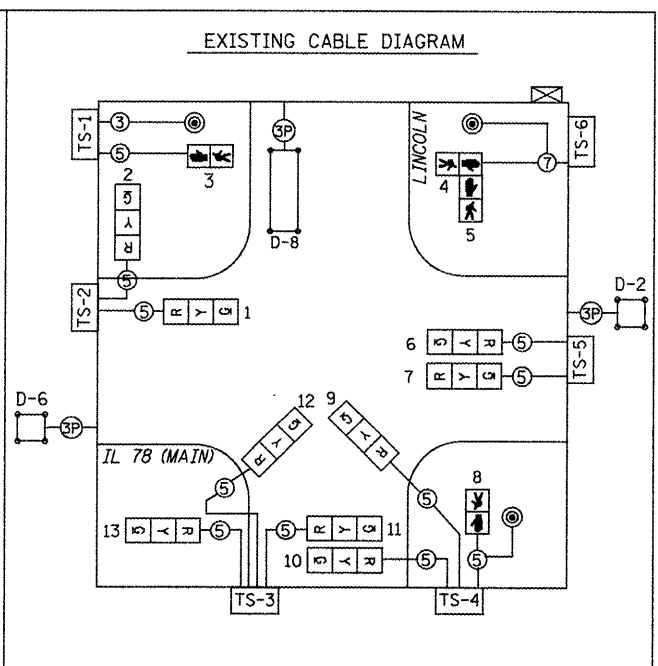
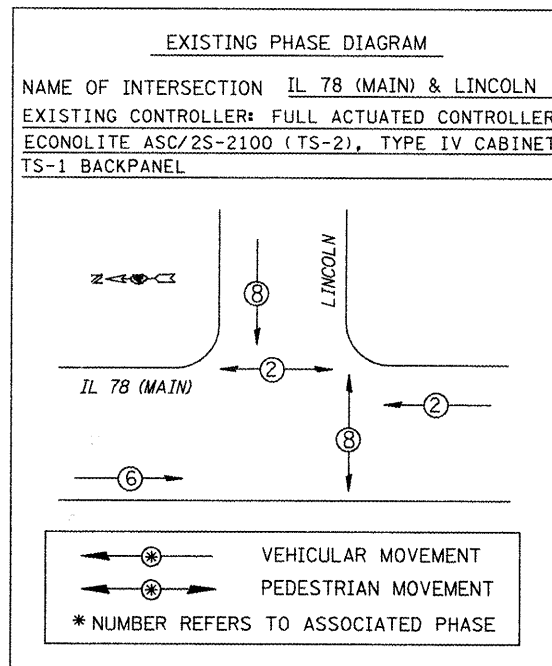
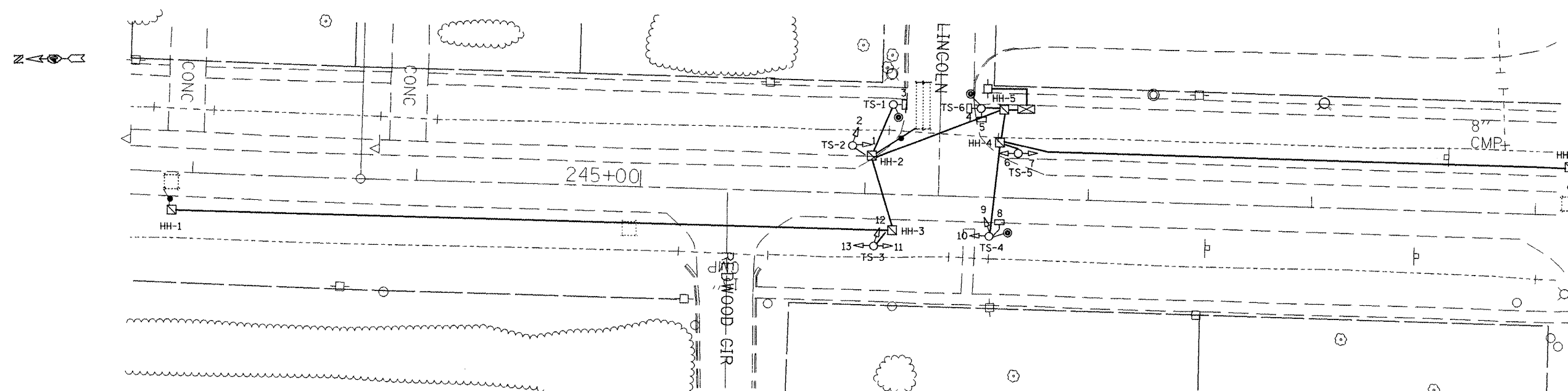
ILLINOIS DEPARTMENT OF TRANSPORTATION

Pavement Markings

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2, RS-5	FULTON	282	117
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXISTING TRAFFIC SIGNAL LEGEND

- ☐ EX. HANDHOLE (STD. OR HEAVY-DUTY)
- EX. CONDUIT
- ⊞ EX. DETECTOR LOOP (6' X 40')
- ⊞ EX. DETECTOR LOOP (6' X 6')
- ⊞ EX. CONTROLLER CABINET
- ⊞ EX. ELECTRICAL SERVICE
- ⊞ EX. TRAFFIC SIGNAL HEAD
- ⊞ EX. PEDESTRIAN SIGNAL HEAD
- ⊞ EX. PEDESTRIAN PUSHBUTTON

REMOVE EXISTING HANDHOLE - QTY. 5 EA.	
QTY.	LOCATIONS
1.0 EA.	HH-1, HH-2, HH-3, HH-4, HH-6

REMOVE EXISTING CONCRETE FOUNDATIONS - QTY. 6 EA.	
QTY.	LOCATIONS
1.0 EA.	TS-1, TS-2, TS-3, TS-4, TS-5, TS-6

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL - QTY. 1 LUMP SUM

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION, 1025 W. DETWEILLER DR., PEORIA, IL. PLEASE CONTACT PAUL GRANT AT (309) 671-4474 FORTY-EIGHT HOURS IN ADVANCE OF DELIVERY.

QTY.	ITEM
1.0	CONTROLLER CABINET AND CONTENTS COMPLETE

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL.

QTY.	ITEM
9.0	SIGNAL HEAD, 1-FACE, 3-SECTION, POST OR BRACKET MOUNTED
4.0	PEDESTRIAN SIGNAL HEAD, 1-FACE, POST OR BRACKET MOUNTED
6.0	TRAFFIC SIGNAL POST AND BASE, WITH PEDESTRIAN PUSHBUTTONS
1.0	ELECTRIC SERVICE INSTALLATION
ALL	ELECTRIC CABLE

- EXISTING TRAFFIC SIGNAL AND REMOVAL NOTES**
1. THE REMOVAL ITEMS ARE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL REMOVAL ITEMS PRIOR TO BIDDING.
 2. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE ROADWAY AS LONG AS POSSIBLE. AFTER REMOVAL OF THE TRAFFIC SIGNALS, TRAFFIC FROM LINCOLN SHALL BE CONTROLLED WITH A TEMPORARY STOP SIGN EQUIPPED WITH A "CROSS TRAFFIC DOES NOT STOP" (W4-4P) SIGN, AND A RED SOLAR-POWERED FLASHER. THE CONTRACTOR SHALL FURNISH THE TEMPORARY SIGN POST, STOP SIGN, W4-4P SIGN, AND FLASHER FOR USE DURING CONSTRUCTION OF THE PERMANENT TRAFFIC SIGNALS. THE CONTRACTOR SHALL RETURN THE FLASHER TO IDOT AT THE CONCLUSION OF THE PROJECT. THIS WORK WILL BE PAID FOR AS "SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)".
 3. ANY MAINTENANCE OF THE EXISTING SIGNALS SHALL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
 4. FULL DEPTH SAW CUTS SHALL BE REQUIRED AT ALL REMOVAL LIMITS. IF THE CONTRACTOR REMOVES OR DAMAGES THE EXISTING SIDEWALK OR BITUMINOUS SURFACE OUTSIDE THE REMOVAL LIMITS DESIGNATED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE AND/OR REPLACE THAT PORTION AT THE CONTRACTOR'S EXPENSE.
 5. THE EXISTING HANDHOLES (STANDARD OR HEAVY-DUTY) SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AS "REMOVE EXISTING HANDHOLE".

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL	L SUM	1.0
REMOVE EXISTING CONCRETE FOUNDATIONS	EACH	6.0
REMOVE EXISTING HANDHOLE	EACH	5.0

TRAFFIC SIGNALS
 SHEET 1 OF 5
 NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING TRAFFIC SIGNALS
 IL 78 (MAIN) & LINCOLN
 CANTON
 FULTON COUNTY

SCALE: VERT. DATE
 HORIZ. DATE

DRAWN BY
 CHECKED BY

PLOT DATE: 8/16/2009
 FILE NAME: I:\Projects\11726\Main & Lincoln Traffic Signals - Revised 8-16-09\Final.dgn
 USER: bbruon

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2, RS-5	FULTON	282	118
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES

- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
- THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
- ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
- THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.
- ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-IN CABLE.
- A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
- THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT, MILLED SURFACE, OR BINDER COURSE BEFORE THE FINAL OVERLAY. THE RISER AREA SHALL BE CHIPPED OUT AND FILLED WITH EPOXY. THIS WORK SHALL BE INCLUDED IN PRICE FOR DETECTOR LOOPS.
- ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.
- PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
- THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
- THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. HOWEVER, THIS WORK WILL BE MEASURED FOR PAYMENT AND PAID FOR AS CONDUIT IN TRENCH OF THE TYPE AND SIZE SPECIFIED AND TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- THE LOCATIONS FOR HANDHOLES AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION PRIOR TO INSTALLATION.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, AND PHOTOCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING AND PROPOSED TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
SERVICE INSTALLATION, TYPE B	EACH	1
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	779
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	60
CONDUIT PUSHED, 3" DIA., PVC	FOOT	28
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	60
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	839
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	223.5
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1022
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	56
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	854.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT AND 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	12
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	225
PEDESTRIAN PUSHBUTTON	EACH	4
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
ELECTRIC CABLE IN CONDUIT, 1/C, NO. 6 GROUNDING	FOOT	245
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL	L SUM	1
SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	1

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC, RANDY LANINGA, AT (309) 671-4477 TO OBTAIN APPROVAL FOR ALL MAST ARM FOUNDATION LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ALL COSTS REQUIRED TO REMOVE OR RELOCATE FACILITIES THAT WERE CONSTRUCTED WITHOUT OBTAINING LOCATION APPROVAL.

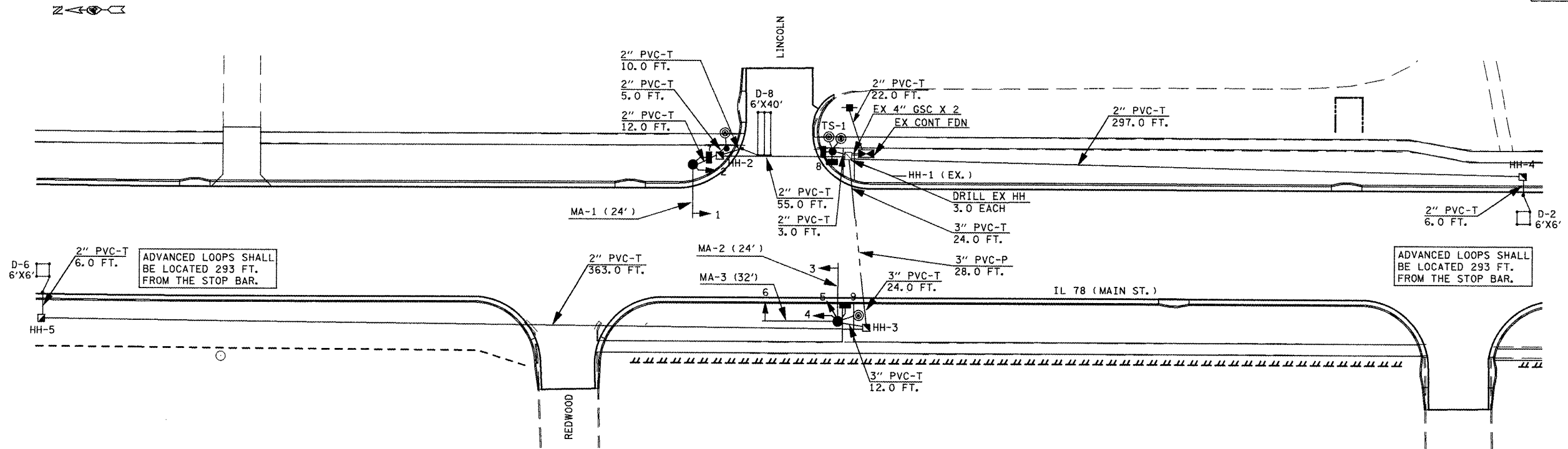
TRAFFIC SIGNALS
SHEET 2 OF 5
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TRAFFIC SIGNAL
SCHEDULE OF QUANTITIES
AND CONSTRUCTION NOTES
IL 78 (MAIN) & LINCOLN
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

PLOT DATE = 8/18/2008
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 USER NAME = bueckeb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2, RS-5	FULTON	282	119
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



REF.	LOCATION	TYPE	LENGTH
MA-1	NE QUADRANT	S MAA & P	24 FT.
MA-2/3	SW QUADRANT	D S MAA & P	24 FT./32 FT.
TS-1	SE QUADRANT	GALV STEEL	10 FT.

QTY	UNIT	ITEM	LOCATION
3.0	EA.	SH, LED, 1F, 3-SEC, MAM	1, 3, 6
3.0	EA.	SH, LED, 1F, 3-SEC, BM	2, 4, 5
3.0	EA.	TRAFFIC SIGNAL BACKPLATE LOUVERED	1, 3, 6
2.0	EA.	PED, SH, LED, 1F, 1-SEC, BM	7, 9
1.0	EA.	PED, SH, LED, 2F, 1-SEC, BM	8

REF.	LOCATION	TYPE
HH-1	SE QUADRANT	EXISTING
HH-2	NE QUADRANT	STANDARD
HH-3	SW QUADRANT	STANDARD
HH-4	PHASE 2 ADV. LOOP	STANDARD
HH-5	PHASE 6 ADV. LOOP	STANDARD

DETECTOR LOOP	ASSIGNED PHASE	NO. OF CHANNELS REQUIRED
D-2	2	1
D-4	4	1
D-6	6	1
TOTAL NUMBER OF CHANNELS REQUIRED:		3

TRAFFIC SIGNAL LEGEND

- ☒ PROP. CONTROLLER CABINET
- PROP. CONDUIT
- ☑ PROP. CONCRETE HANDHOLE
- ➔ PROP. SIGNAL HEAD
- ➔ PROP. SIGNAL HEAD WITH BACKPLATE
- ☒ PROP. SERVICE INSTALLATION
- PROP. STL MAST ARM ASSEMBLY AND POLE
- PROP. SIGNAL POST
- PROP. PEDESTRIAN PUSHBUTTON POST
- ⬇ PROP. PEDESTRIAN SIGNAL HEAD
- ⊙ PROP. PEDESTRIAN PUSHBUTTON

TRAFFIC SIGNALS
SHEET 3 OF 5
NOT TO SCALE

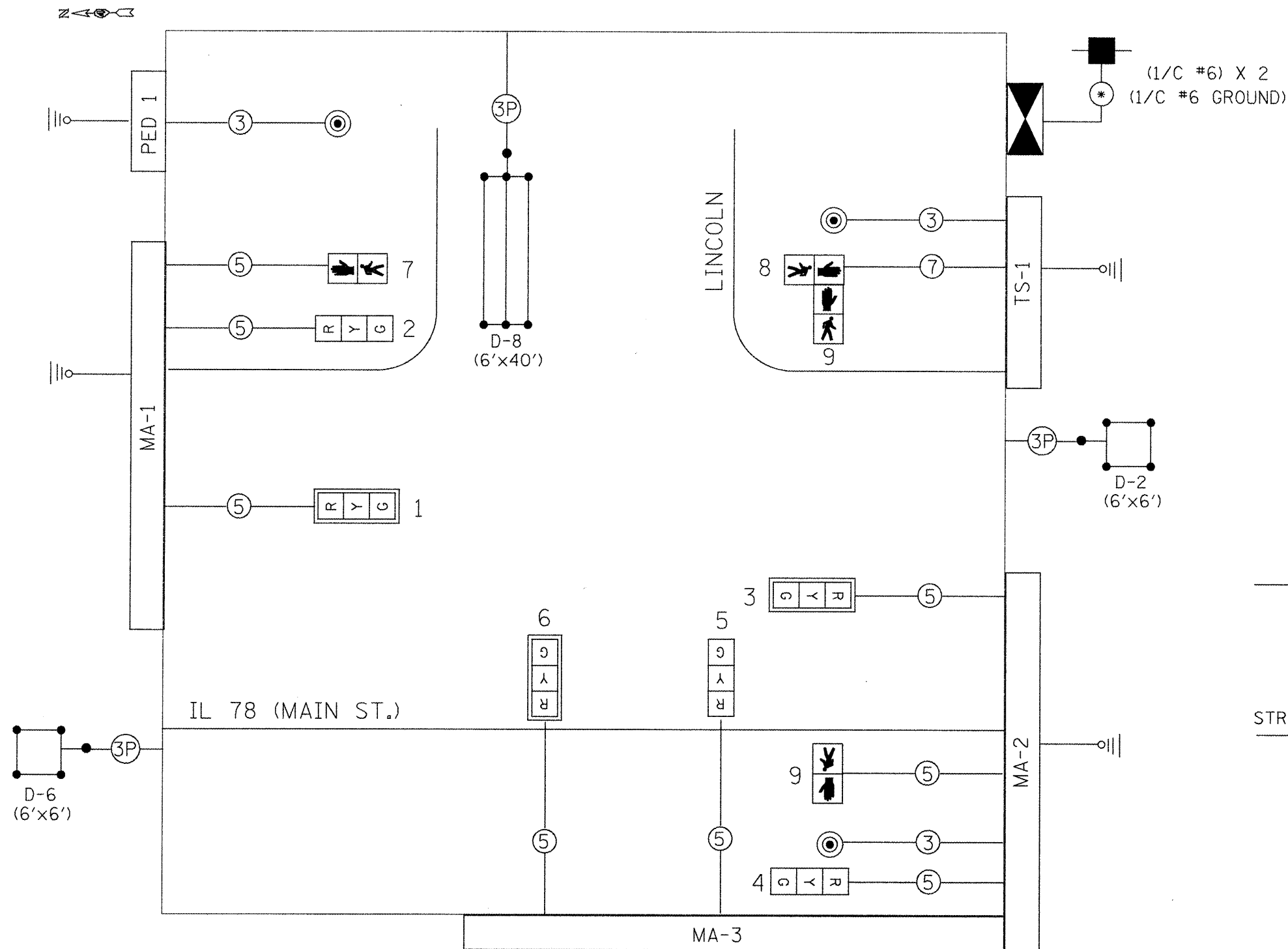
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TRAFFIC SIGNALS
IL 78 (MAIN ST.) & LINCOLN
CANTON
FULTON COUNTY
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

PLOT DATE = 07/16/2008
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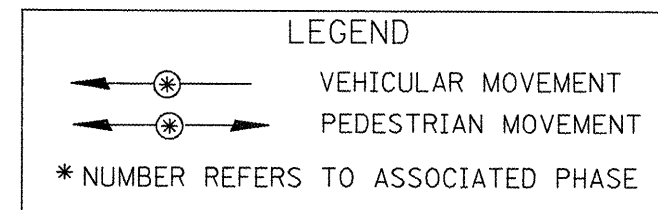
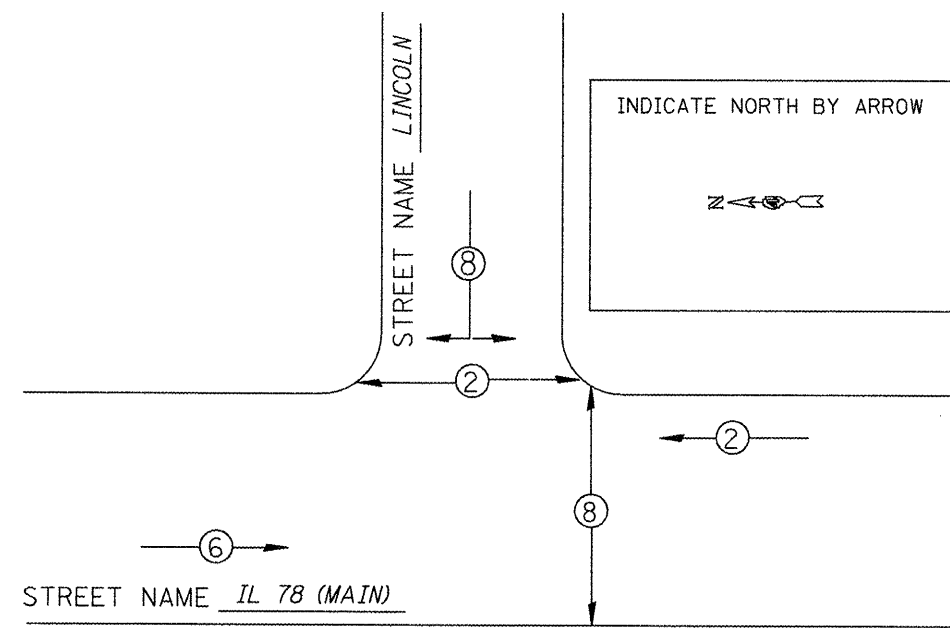
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22	135W-2, RS-5	FULTON	282	120
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROPOSED CABLE DIAGRAM



PROPOSED PHASE DIAGRAM

NAME OF INTERSECTION IL 78 (MAIN ST.) & LINCOLN
 PROPOSED CONTROLLER: FULL ACTUATED CONTROLLER (TS-2), TYPE IV CABINET, TS-2 BACKPANEL



TRAFFIC SIGNALS LEGEND

- | | | | | | |
|--|-------------------------------|--|-------------------------------|--|------------------------------|
| | PROP.. CONTROLLER (SIGNAL) | | PROP. 3/C NO. 14 SIGNAL CABLE | | PROP. SERVICE INSTALLATION |
| | PROP. SIGNAL HEAD W/BACKPLATE | | PROP. 5/C NO. 14 SIGNAL CABLE | | PROP. DETECTOR LOOP (6'X6') |
| | PROP. SIGNAL HEAD | | PROP. 7/C NO. 14 SIGNAL CABLE | | PROP. DETECTOR LOOP (6'X40') |
| | PROP. PEDESTRIAN SIGNAL HEAD | | PROP. #18 3PR T/S | | PROP. PED PUSHBUTTON |

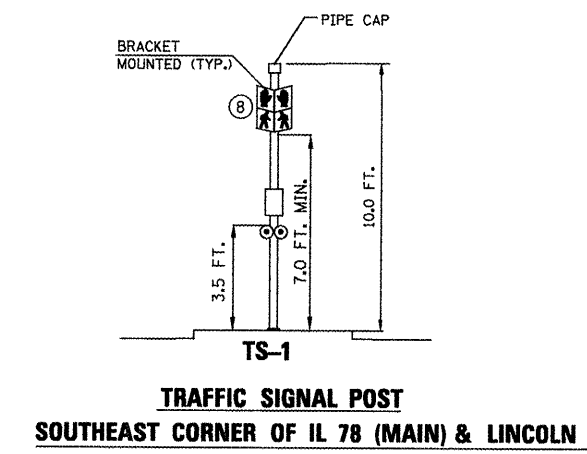
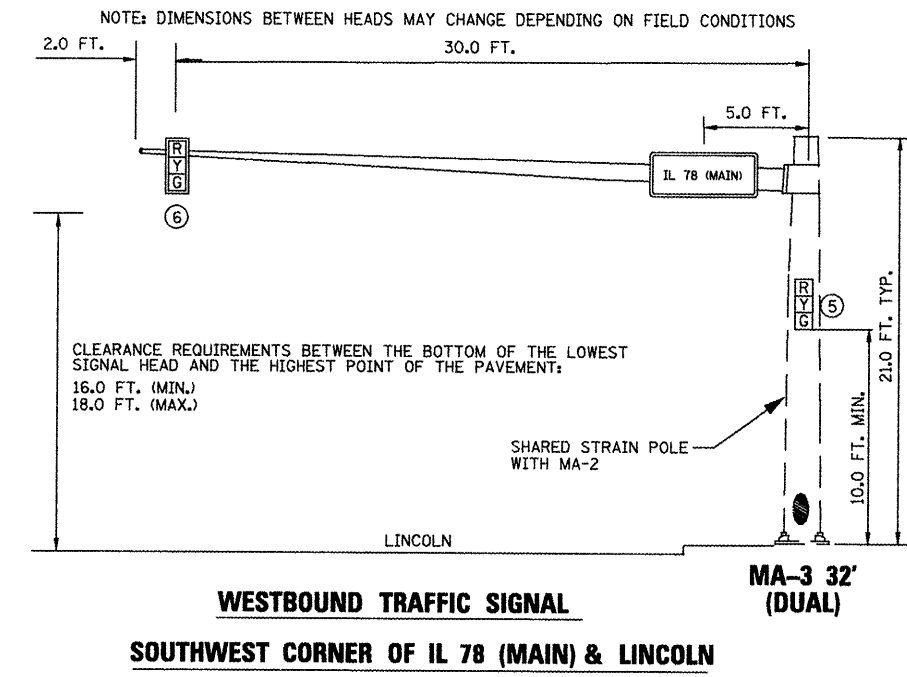
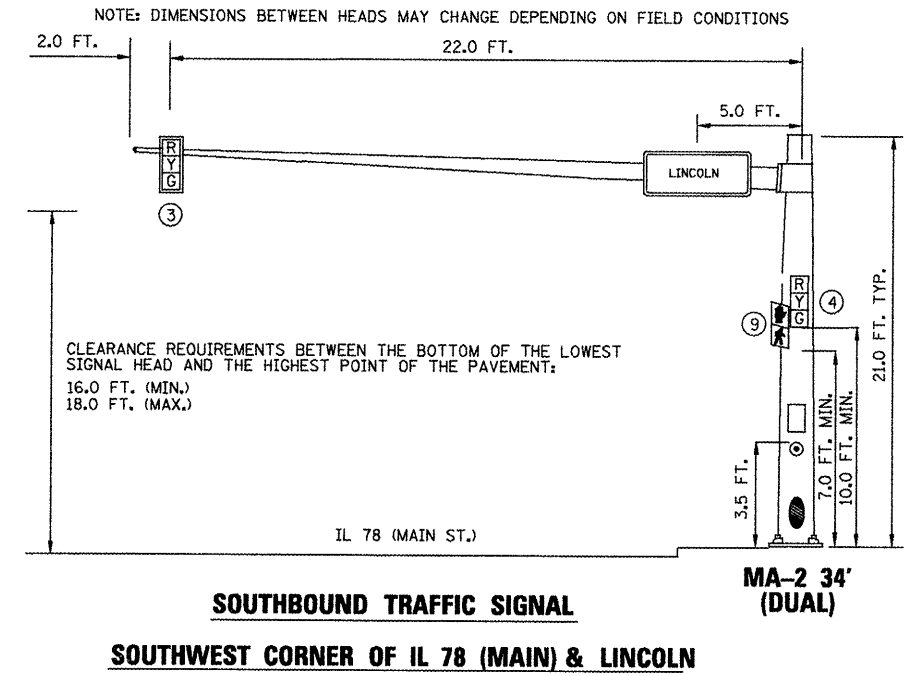
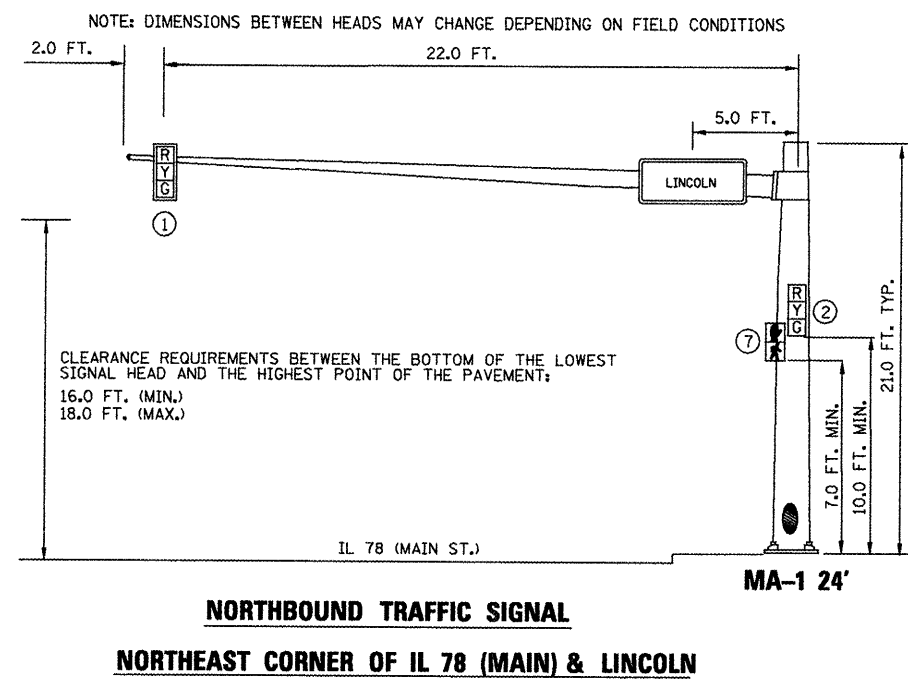
TRAFFIC SIGNALS
 SHEET 4 OF 5
 NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC SIGNAL
 PHASE AND CABLE DIAGRAMS
 IL 78 (MAIN) & LINCOLN
 CANTON

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

CONTRACT NO. 68114				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2, RS-5	FULTON	282	121
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 8/18/2008
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 PLOT SCALE = 52.9412' / IN.
 USER NAME = brucebm

TRAFFIC SIGNALS
SHEET 5 OF 5
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC SIGNAL
 MAST ARM AND POST DETAILS
 IL 78 (MAIN) & LINCOLN
 CANTON

SCALE: VERT. DATE
 HORIZ. DRAWN BY
 CHECKED BY

B.M.-
No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STA. 227 + 00
10'x7' BOX CULVERT

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.	SHEET NO.
F.A.P. 22	135W-2; RS-5	FULTON	282	122	-- SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

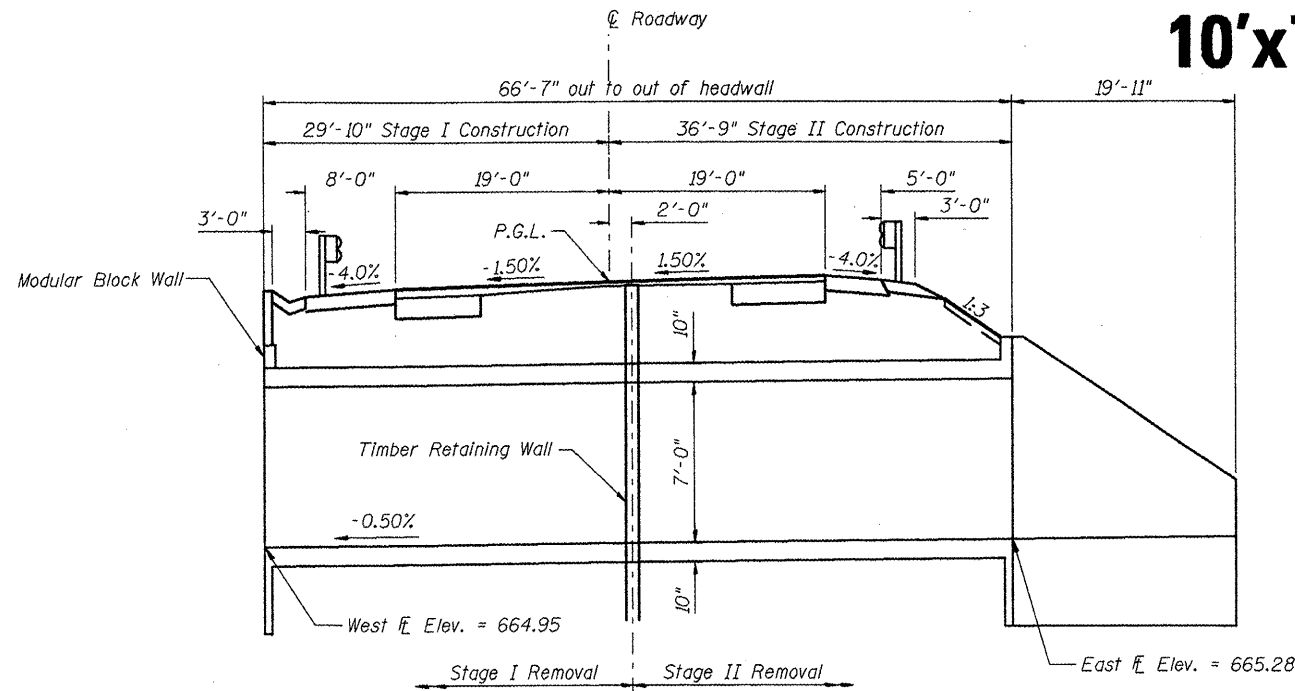
Contract # 68114

GENERAL NOTES

1. For staging details, see sheet 58 and 59
2. For Modular Block Wall, Backfill and Embankment, see Special Provisions.
3. See sheet 126 for temporary retaining wall details.
4. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
5. The joints between precast box sections shall be sealed and all voids filled with mastic joint sealer. In addition, the joints shall be externally sealed on all four sides using 13 inch wide external sealing bands. The seal shall be centered over the joint, secured in place and protected from damage during the backfilling operation.

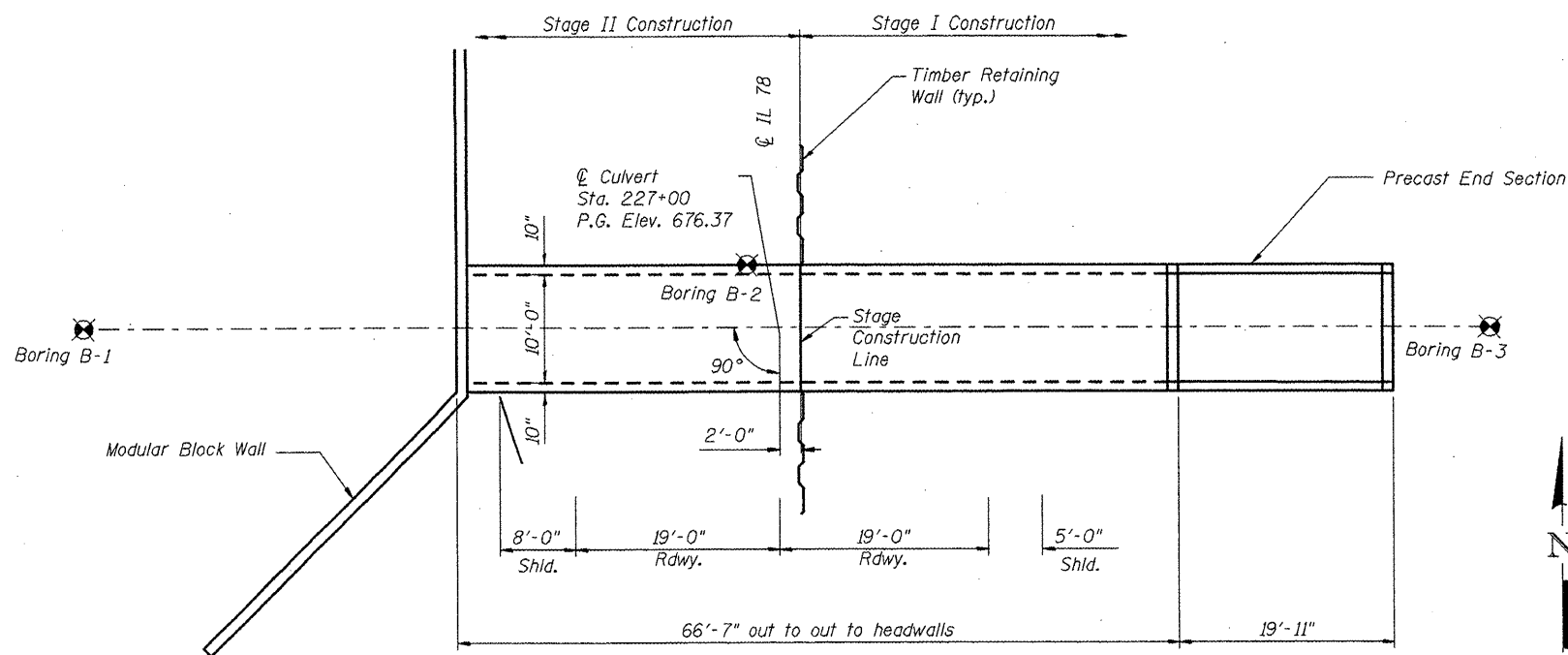
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
122	General Plan & Elevation
123	Grading Detail
124	Backfill Detail
125	Sanitary Sewer and Guardrail Details
126	Temporary Retaining Wall Details
127-129	Soil Borings



ELEVATION VIEW

Dimensions are at right angles to ϕ Roadway Looking West

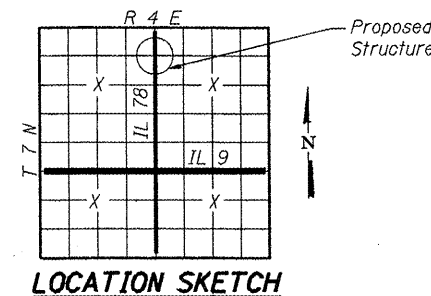


PLAN VIEW

DESIGNED -
CHECKED -
DRAWN - SEM
CHECKED -



CANTON COUNTRY CLUB TUNNEL SUMMARY OF QUANTITIES					
CODE #	DESCRIPTION	UNIT	TOTAL	STATE	CITY
20200100	EARTH EXCAVATION	CU YD	1212		1212
20400800	FURNISH EXCAVATION	CU YD	172		172
20700110	POROUS GRANULAR EMBANKMENT	TON	44		44
20800150	TRENCH BACKFILL	CU YD	771		771
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	150.7		150.7
28200200	FILTER FABRIC	SQ YD	38.5		38.5
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	111		111
54001000	BOX CULVERT END SECTIONS	EACH	1		1
54011007	PRECAST CONCRETE BOX CULVERT 10'x7'	FOOT	66.6		66.6
54215550	METAL END SECTIONS 15"	EACH	2		2
54200220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	28		28
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	23.4		23.4
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	418		418
70400100	TEMPORARY CONCRETE BARRIER	FOOT	687.5	265	422.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	175		175
X0300558	SANITARY SEWER REMOVAL AND REPLACEMENT 8"	FOOT	36		36
X0712400	TEMPORARY PAVEMENT	SQ YD	994		994
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	994		994
X7030104	WET TEMPORARY PAVEMENT MARKING TAPE, TYPE III, 4 INCH	FOOT	1252	1252	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1		1
Z0030270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2	2	
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1		1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1
Z0034730	MODULAR RETAINING WALL SYSTEM	SQ FT	1695	1038	657
Z0054400	ROCK FILL	CU YD	76		76
Z0075500	TIMBER RETAINING WALL	SQ FT	540		540



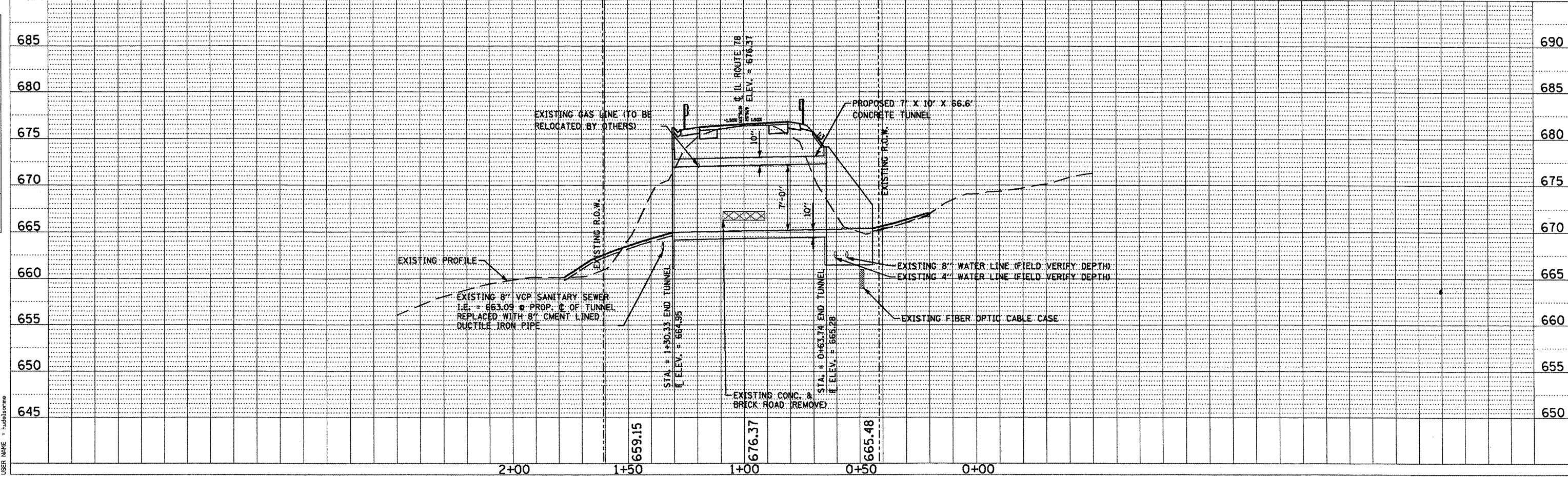
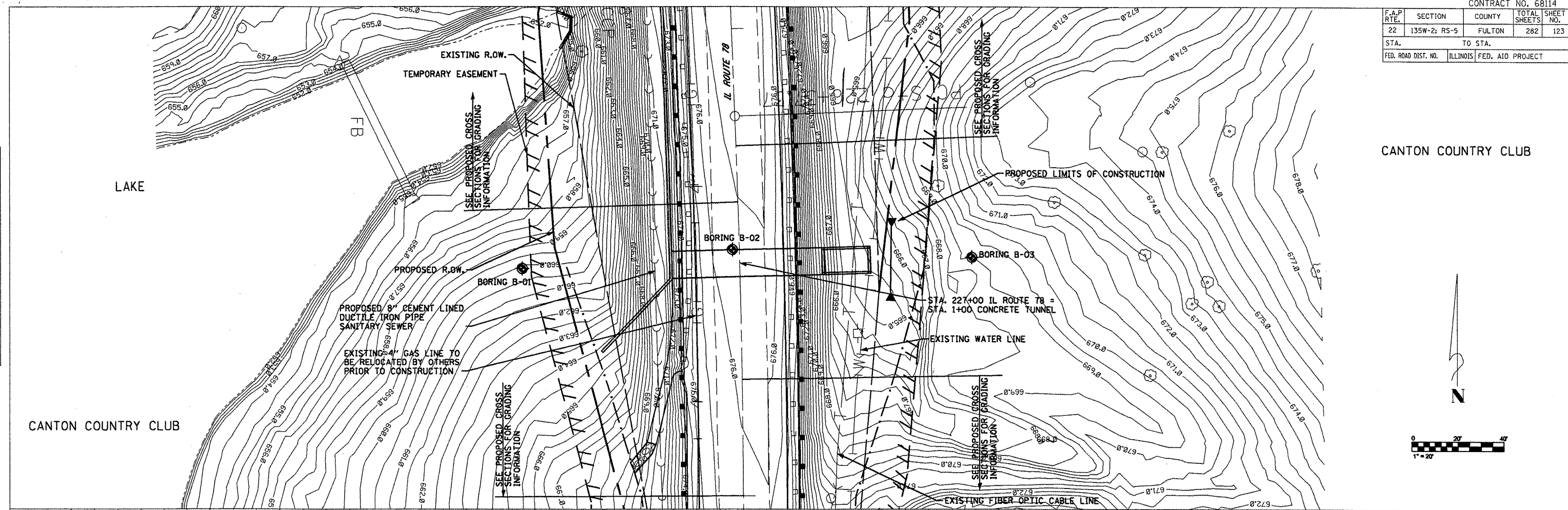
GENERAL PLAN & ELEVATION
IL ROUTE 78
CANTON COUNTRY CLUB TUNNEL
FAP 22-SECTION 135W-2;RS-5
FULTON COUNTY
STATION 227+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	123
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

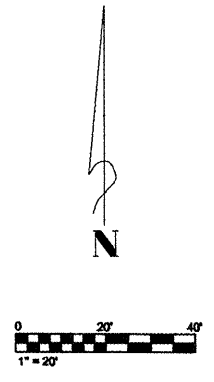
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CANTON COUNTRY CLUB

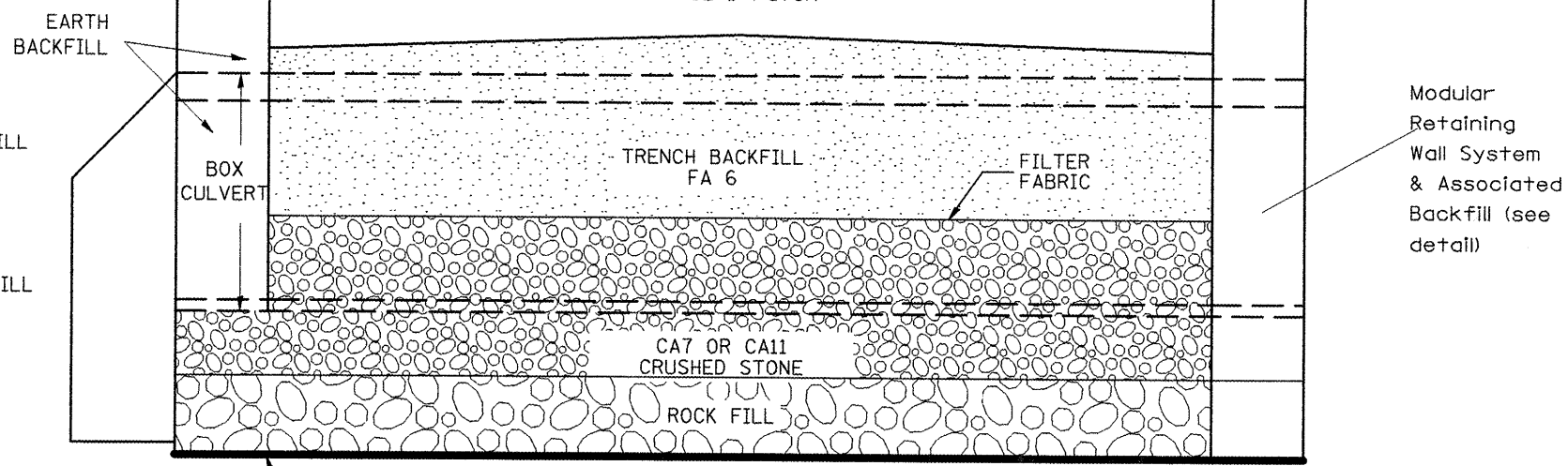
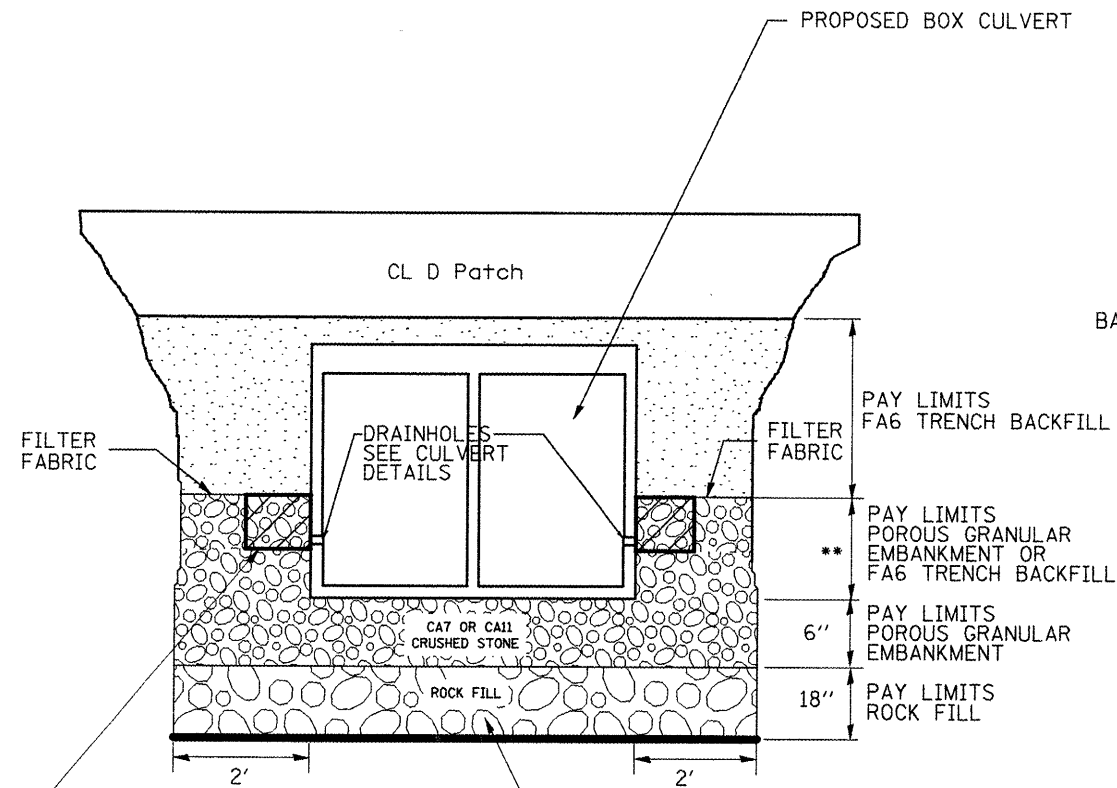
CANTON COUNTRY CLUB



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	124
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ROADWAY PROFILE VIEW

ROADWAY CROSS SECTION VIEW



2' x 2' x 2' DEPOSIT OF CA 5, 7, OR 11 IN FABRIC ENVELOPE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS (TYPICAL)

PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCKFILL WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. PAID FOR BY RESPECTIVE PAY ITEMS

** EXTEND THE POROUS GRANULAR EMBANKMENT TO THE TOP OF THE DRAINHOLE FILTER FABRIC ENVELOPES.

NOTES:

- EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
- TRENCH BACKFILL SHALL BE COMPACTED BY EITHER METHOD 2 OR METHOD 3 SPECIFIED IN ARTICLE 550.07, OR IN ACCORDANCE WITH METHOD 1 SPECIFIED IN ARTICLE 550.07, EXCEPT THAT THE COMPACTED LIFTS SHALL NOT EXCEED 8" IN THICKNESS. TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD LAB DENSITY.

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

Not to Scale

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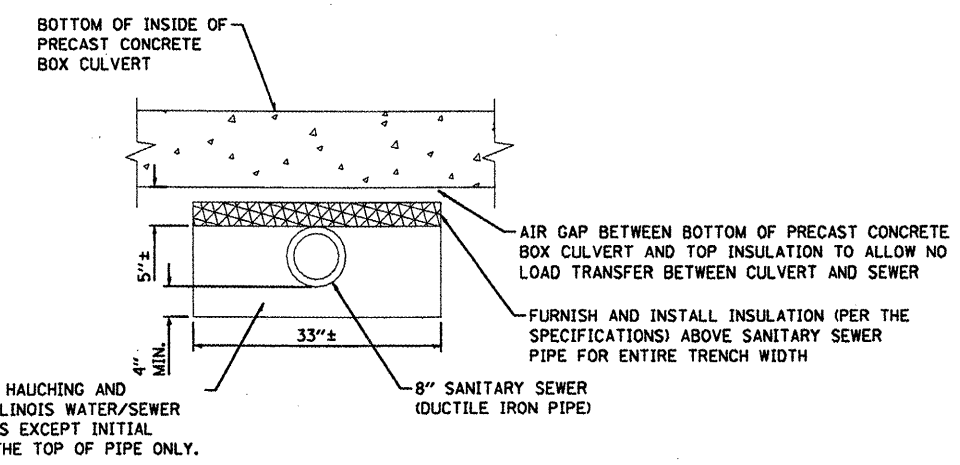
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

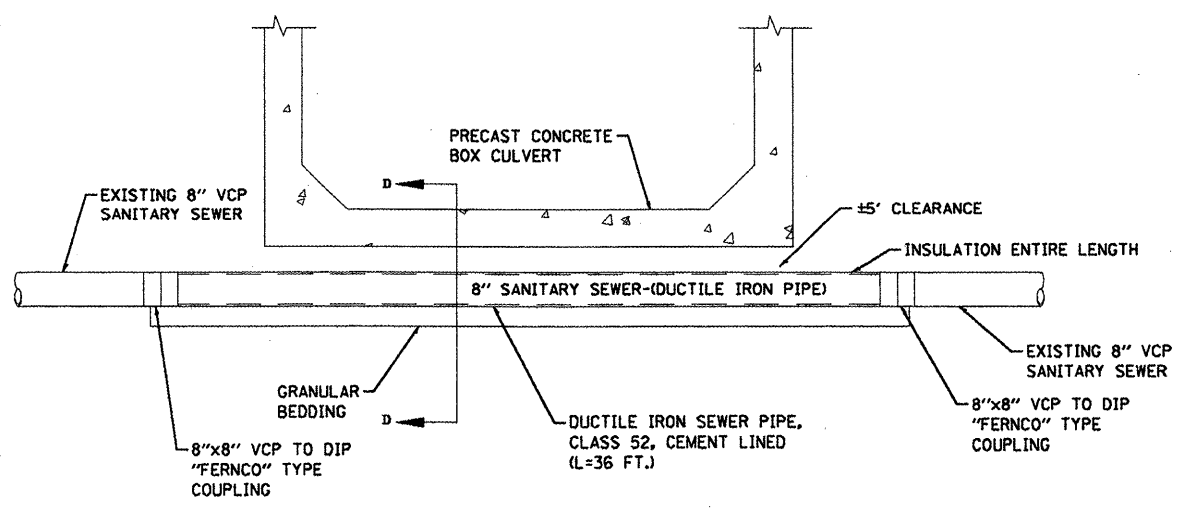
Backfill Detail

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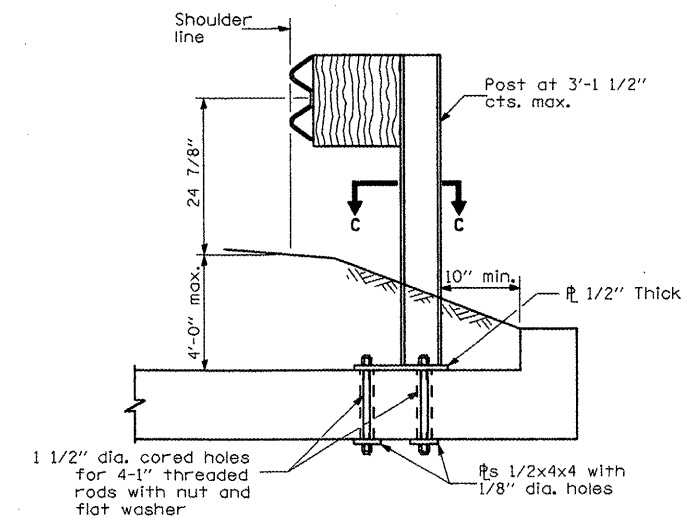
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



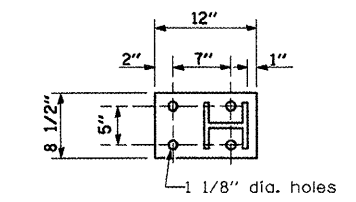
SECTION D-D
SANITARY SEWER SEPARATION CROSS SECTION DETAIL
NO SCALE



SANITARY SEWER SEPARATION PROFILE DETAIL
NO SCALE



CROSS SECTION



SECTION C-C

GUARDRAIL MOUNTED ON CULVERT DETAIL
NO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

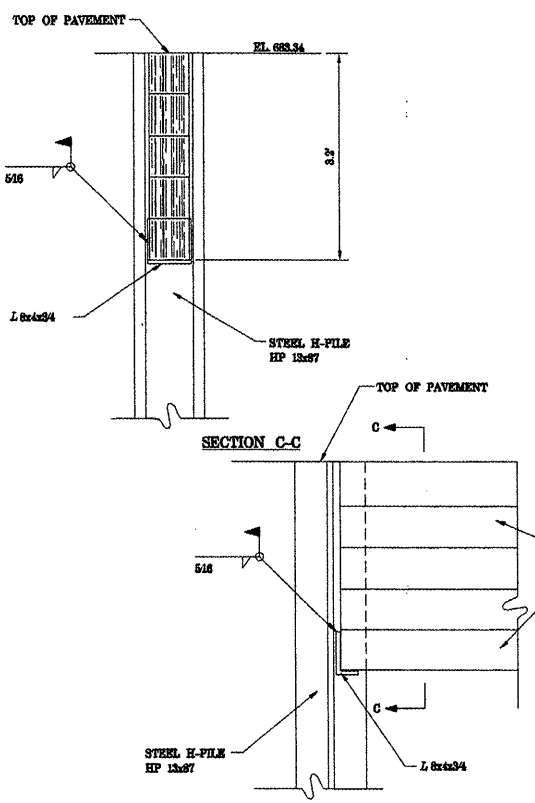
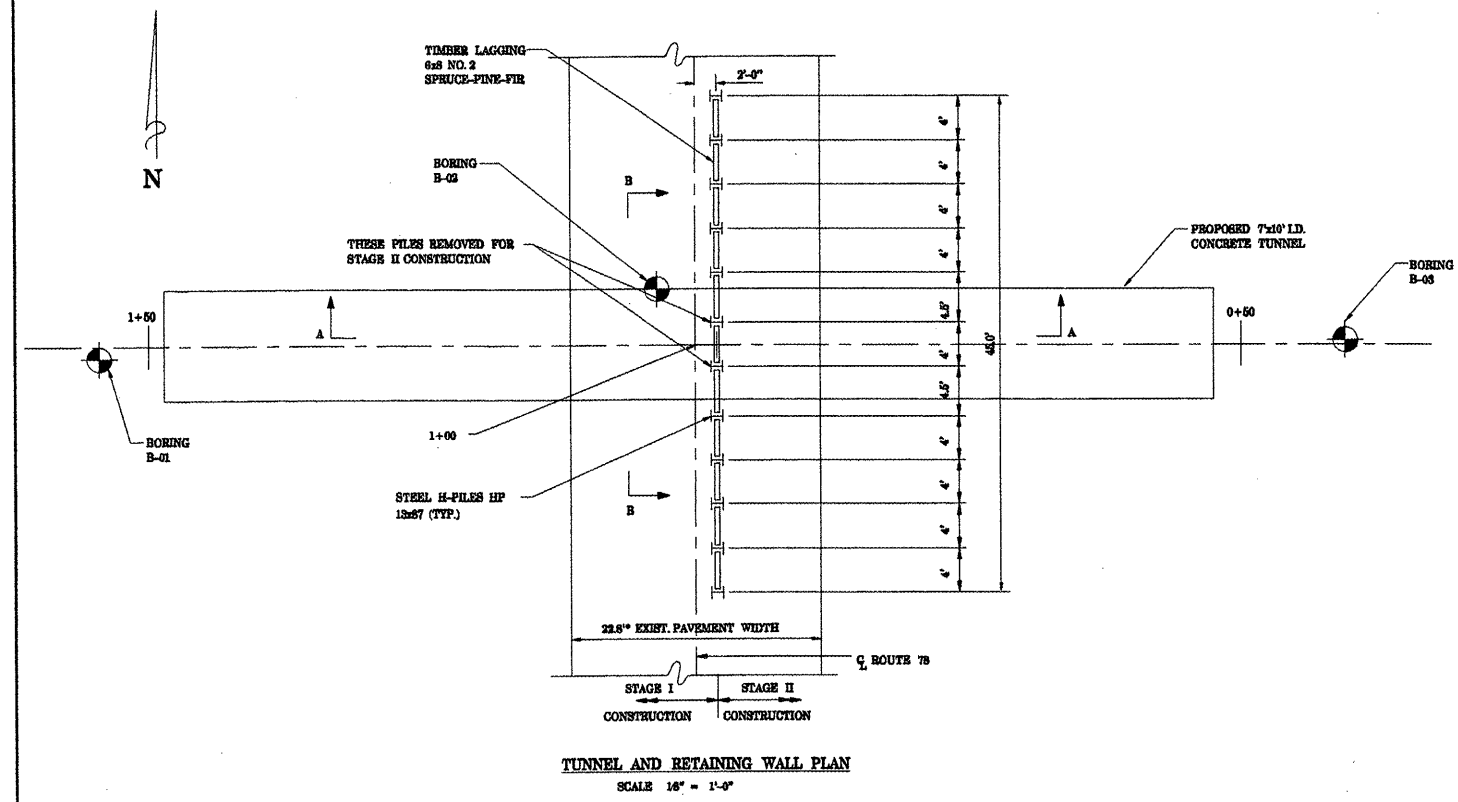
**SANITARY SEWER AND
GUARDRAIL DETAILS**

SCALE: VERT. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

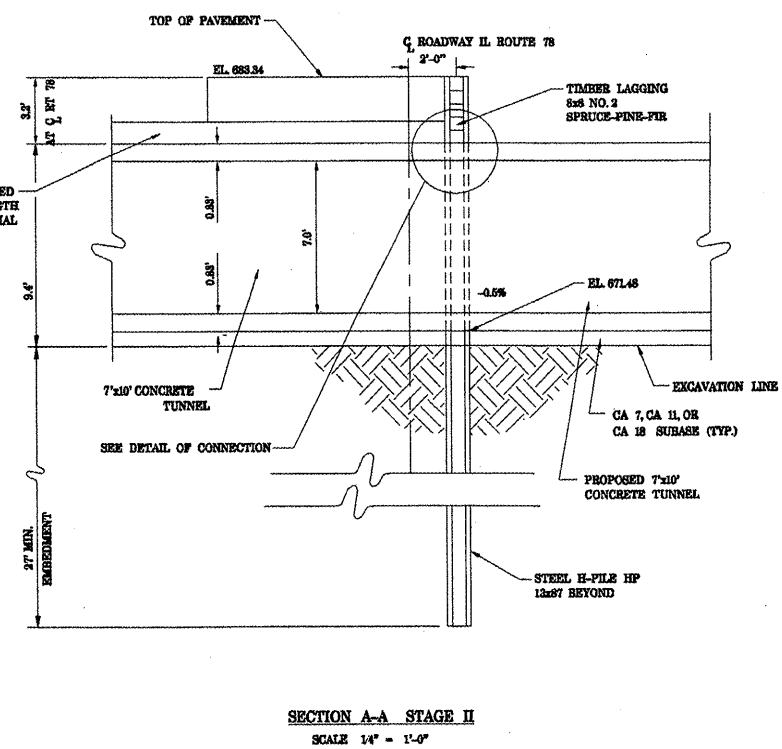
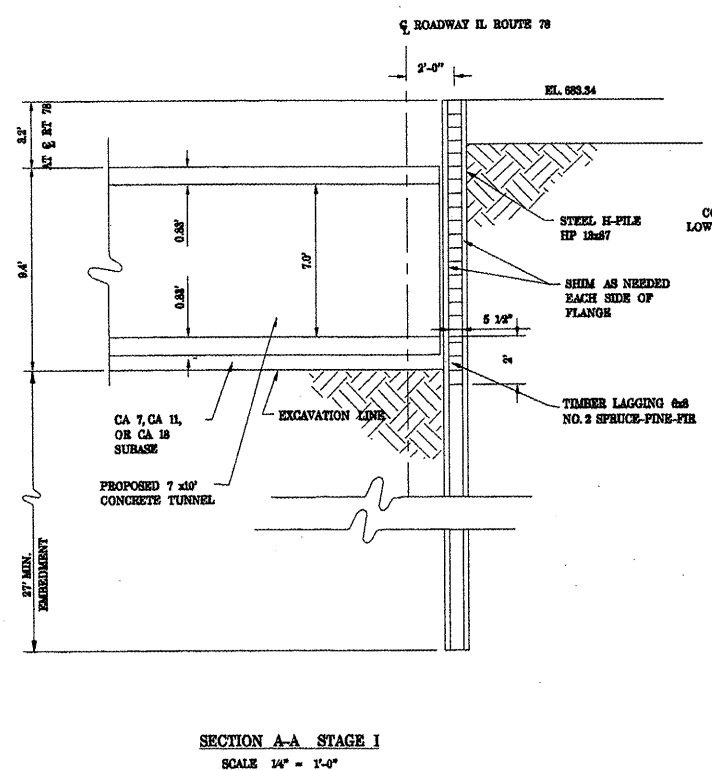
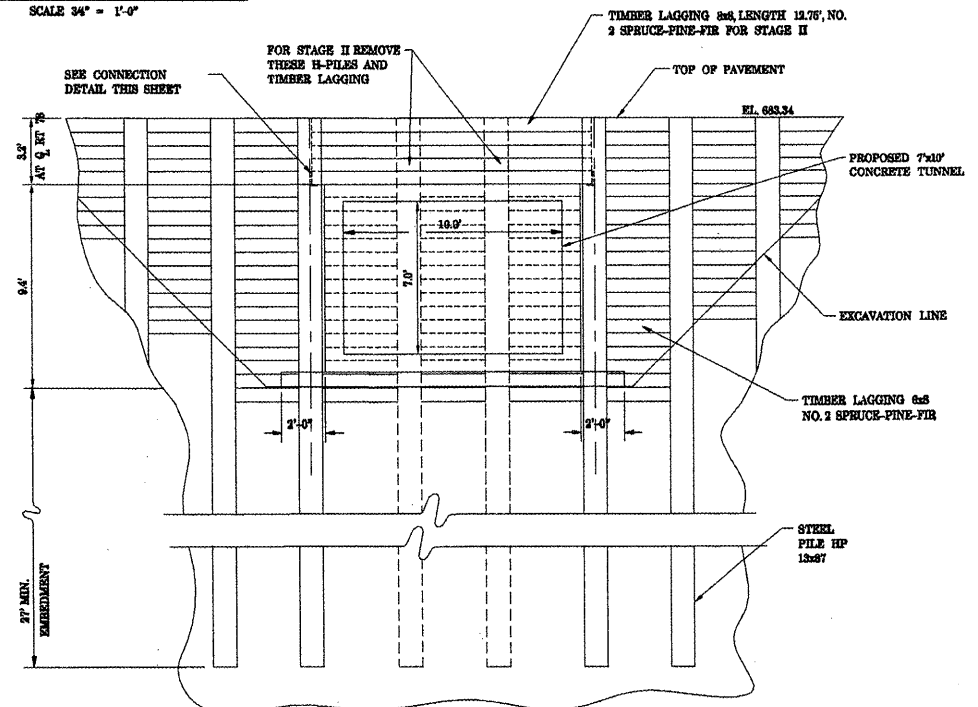
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
22	135N-2-BS-5	EULION	282
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

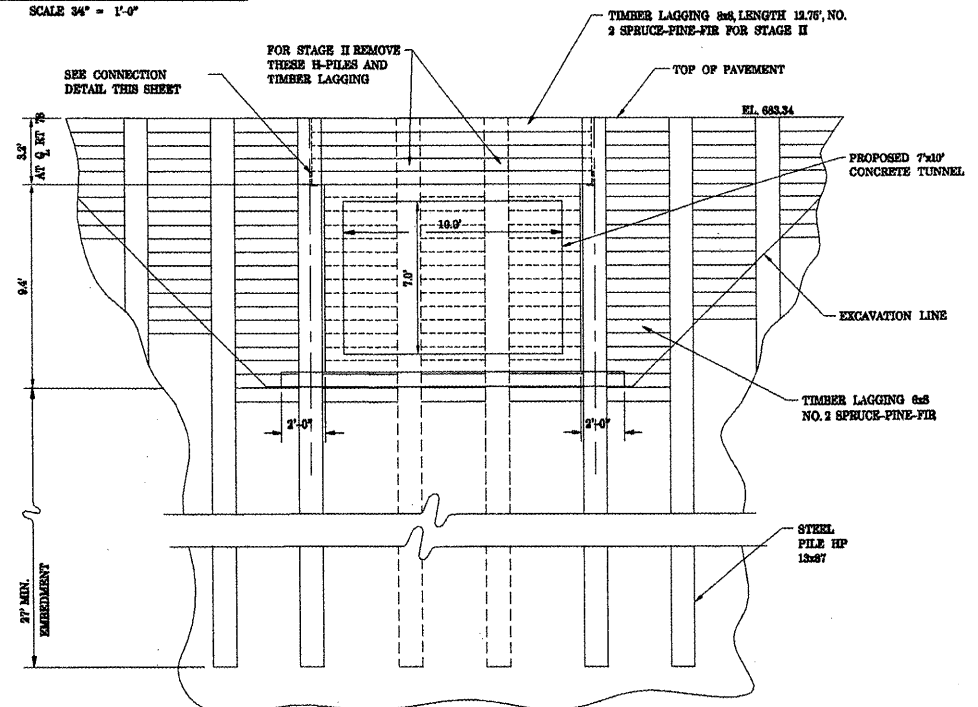


- STAGE I WALL SEQUENCE**
1. DRIVE IN PILES
 2. EXCAVATE AND PUT IN WOOD LAGGING AND SHIMS BETWEEN STEEL FLANGES.
 3. PLACE SECTIONS OF PRECAST CONCRETE BOX TUNNEL.
 4. REMOVE WOOD LAGGING AND SHIMS WITHIN THE WIDTH OF THE NEW TUNNEL.
 5. BACKFILL AND CONSTRUCT NEW PAVEMENT.
- STAGE II WALL SEQUENCE**
1. PULL OUT TWO PILES WITHIN THE WIDTH OF THE TUNNEL.
 2. BEGIN EXCAVATION PLACING NEW LAGGING AND SHIMS BETWEEN THE TWO PILES OUTSIDE OF THE TUNNEL.
 3. WELD IN STEEL ANGLE SUPPORTS FOR THE WOOD LAGGING WITHIN THE TUNNEL WIDTH.
 4. PLACE SECTIONS OF PRECAST CONCRETE TUNNEL.
 5. REMOVE WOOD LAGGING AND SHIMS DURING BACKFILL PROCESS.
 6. PULL OUT ALL STEEL PILES.
 7. CONSTRUCT NEW PAVEMENT.

DETAIL OF CONNECTION FOR STAGE II
SCALE 3/4" = 1'-0"



SECTION B-B
SCALE 1/4" = 1'-0"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY RETAINING WALL DETAILS
CANTON COUNTRY CLUB TUNNEL

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY **DMB**
CHECKED BY **KEF**

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USER NAME = budtette

WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-01
 DATE 6-12-00
 W. & A. FILE NO. 0981
 SHEET 1 OF 6

PROJECT ILLINOIS ROUTE 78 BOX CULVERT CROSSING LOCATION Canton, Illinois
 BORING LOCATION 53' West Of Route 78 Centerline DRILLED BY Winslow
 BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
 SOIL CLASSIFICATION SYSTEM U. S. B. S. C. SEEPAGE WATER ENCOUNTERED AT ELEVATION 647.3
 GROUND SURFACE ELEVATION 669.8 GROUND WATER ELEVATION AT 24+ HRS. 666.2
 BORING DISCONTINUED AT ELEVATION 623.8 GROUND WATER ELEVATION AT COMPLETION 654.3

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
18"	Gray-Brown SILTY CLAY LOAM Organic Topsoil Medium, Black ORGANIC SILTY CLAY						
04	Medium, Gray And Orange-Brown CLAY	SS	1 2(4)	0.7	0.5	77	31
	Soft, Gray And Orange-Brown SANDY CLAY LOAM	SS	1 2(4)	1.2	0.9	93	21
08	Medium, Dark Gray SILTY CLAY With Some Organic Matter	SS	1 3(6)	0.6	0.4	95	20
12	Very Stiff, Blue-Gray, Weathered GLACIAL SILTY CLAY TILL	SS	1 4 5 6(11)	1.0	0.9	87	34
16	Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	3 4 6(10)	1.5	1.3	117	17
20	Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	5 7 9(15) 8 8 18(25) 11	3.7	3.4	124	10
24	Dense, Gray-Brown, Medium- To Coarse-Grained SAND With Some Fine-Grained Gravel	SS	21 24(45) 7	-	-	-	13
	Medium-Density, Gray And Olive-Green Fine SAND With Seams Of Silt Loam	SS	10 12(22)	-	-	-	12

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

BORING LOG
 (CONTINUATION)
 DATE 6-12-00

BORING NO. B-01
 PROJECT Illinois Route 78 Box Culvert Crossing SHEET 2 OF 6
 LOCATION Canton, Illinois W. & A. FILE NO. 0981

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
	See Sheet 1 of 6						
	Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	8 13 15(28)	3.2	2.8	123	10
30	Stiff, Gray, Unweathered GLACIAL SANDY CLAY TILL	SS	8 13 13(26)	2.0	1.8	123	15
	Very Stiff, Gray, Near CLAY SHALE	SS	6 9 13(22)	2.9	2.6	113	16
34	Very Stiff, Gray CLAY SHALE	SS	8 11 15(26)	3.8	3.4	112	19
	Hard, Gray CLAY SHALE	SS	6 14 43(57)	4.5	4.2	120	15
	Hard, Gray SANDSTONE	SS	54 120/2'	4.5+	-	-	14
42	Hard, Gray CLAY SHALE	SS	130/4'	4.5+	-	-	15
	Hard, Gray CLAY SHALE	SS	120/3'	4.5+	-	-	14
46	EXPLORATORY BORING DISCONTINUED						
50							
54							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Soil Borings

SCALE: VERT. DATE
 HORIZ. DRAWN BY
 CHECKED BY

F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21-BS-5	EULTON	282	128
STA.		TO STA.		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING NO. B-02
DATE 6-13-00
W. & A. FILE NO. 0981
SHEET 3 OF 6

BORING LOG

PROJECT ILLINOIS ROUTE 78 BOX CULVERT CROSSING LOCATION Canton, Illinois
BORING LOCATION 3'W Centerline (84'S of 37+400 (m)) DRILLED BY Winslow
BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION 658.6
GROUND SURFACE ELEVATION 683.5 GROUND WATER ELEVATION AT HRS.
BORING DISCONTINUED AT ELEVATION 627.1 GROUND WATER ELEVATION AT COMPLETION 653.8

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
BITUMINOUS CONCRETE	9"						
CONCRETE	17"						
Very Stiff, Black SILTY CLAY LOAM With Some Organic Matter (Fill)		SS	3 3 7(10)	3.1	2.9	96	26
Very Stiff, Olive-Green, Dark Gray And Blue-Gray CLAY (Fill)	04	SS	6 7 9(15)	2.5	2.4	98	26
	08	SS	7 7 10(17)	2.5	2.3	101	23
OLD CONCRETE PAVEMENT							
Stiff, Gray-Brown SILTY CLAY LOAM	12	SS	6 6 6(12)	2.0	1.8	99	21
Stiff, Gray-Brown And Dark Gray SILTY CLAY With Some Fine-Grained Gravel (Fill)	16	SS	3 3 4(7)	2.0	1.7	104	19
Stiff, Dark Gray SILTY CLAY With Some Organic Matter		SS	3 4 4(8)	2.1	1.8	94	24
Medium, Dark Gray SILTY CLAY	20	SS	2 2 2(4)	0.5	0.5	88	29
Stiff, Gray SILT LOAM		SS	2 3 3(5)	1.5	1.5	93	25
Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	24	SS	2 4 5(9)	2.3	2.1	122	13

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)
DATE 6-13-00

BORING NO. B-02

PROJECT Illinois Route 78 Box Culvert Crossing SHEET 4 OF 6
LOCATION Canton, Illinois W. & A. FILE NO. 0981

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 3 of 6							
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL		SS	4 8 12(20)	4.5*	5.1	124	14
Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	30	SS	5 9 15(24)	4.2	3.8	124	12
Very Dense, Light Brown And Gray, Fine-Grained SILTY SAND		SS	10 25 35(60)	-	-	-	20
	34	SS	16 33 32(65)	-	-	-	12
Stiff, Gray-Brown SANDY LOAM		SS	10 12 15(27)	2.1	1.8	103	19
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL		SS	7 11 15(26)	4.5*	4.7	128	12
Dense, Gray, Fine- to Medium-Grained SAND With Trace Of Coarse-Grained Sand	42	SS	9 12 18(30)	-	-	-	14
Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL		SS	6 13 18(31)	2.0	1.7	121	17
Very Stiff, Gray, Near CLAY SHALE		SS	16 20 24(44)	2.5	2.2	116	10
Very Stiff, Dark Gray And Gray CLAY SHALE	50	SS	9 14 20(34)	4.0	3.9	115	16
Hard, Gray CLAY SHALE		SS	10 17 53(70)	4.5*	5.2	117	14
Auger Refusal At (-)56.4 Feet EXPLORATORY BORING DISCONTINUED	54	SS	72 118/2'	4.5*	-	-	13

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Soil Borings

SCALE: VERT. DATE
HORIZ. DATE

DRAWN BY
CHECKED BY

PLOT DATE = 6/19/2008
 PLOT SCALE = 1/8"=1'-0"
 PLOT USER = huda@whitney.com

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21-BS-5	EULTON	282	129
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING NO. B-03
DATE 6-13-00
W. & A. FILE NO. 0981
SHEET 5 OF 6

BORING LOG

PROJECT ILLINOIS ROUTE 78 BOX CULVERT CROSSING LOCATION Canton, Illinois
BORING LOCATION 59° East Of Route 78 Centerline DRILLED BY Winslow
BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U. S. B. S. C. SEEPAGE WATER ENCOUNTERED AT ELEVATION 663.8
GROUND SURFACE ELEVATION 673.3 GROUND WATER ELEVATION AT _____ HRS. _____
BORING DISCONTINUED AT ELEVATION 630.4 GROUND WATER ELEVATION AT COMPLETION 653.1

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Gray And Brown SILTY CLAY LOAM Organic Topsoil	6"						
Medium, Light Brown And Gray Mottled Dark Brown SILTY CLAY	04	SS	1 1(2)	0.9	0.7	94	25
Medium, Light Brown And Gray Mottled Dark Brown, Weathered GLACIAL SILTY CLAY TILL	08	SS	1 2 3(5) 5 4(9)	1.2	1.0	114	18
Loose, Light Brown And Orange-Brown, Fine-Grained SILTY SAND	12	SS	2 3 5(8)	-	-	-	21
Stiff, Gray SILTY CLAY	16	SS	2 5 6(11)	1.5	1.3	94	27
Very Stiff, Gray And Olive-Green, Weathered GLACIAL SILTY CLAY TILL	20	SS	5 10 11(21)	2.2	2.0	117	12
Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	24	SS	8 10 11(21) 7 14 21(35)	3.5	3.3	119	14
Stiff, Gray SILT LOAM		SS	10 17 31(48)	3.8	3.5	122	12
Dense, Gray-Brown, Medium- To Coarse-Grained SAND		SS	13 12 22(34)	-	-	-	14

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-03 **BORING LOG** (CONTINUATION) DATE 6-13-00

PROJECT Illinois Route 78 Box Culvert Crossing SHEET 6 OF 6
LOCATION Canton, Illinois W. & A. FILE NO. 0981

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 5 of 6							
Very Dense, Gray-Brown, Medium- To Coarse-Grained SAND With Occasional Fine-Grained Gravel	30	SS	15 31 53(84)	4.5+	-	-	9
Very Stiff, Gray CLAY SHALE	34	SS	17 26 38(64)	-	-	-	10
Hard, Gray CLAY SHALE	38	SS	11 15 22(37) 17 26 37(63)	4.2	3.7	115	15
Auger Refusal At (-)42.9 Feet EXPLORATORY BORING DISCONTINUED	42	SS	42 65/67 48 83/27 65 92/17	4.5+	-	-	13
	46						
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

REVISIONS	
NAME	DATE

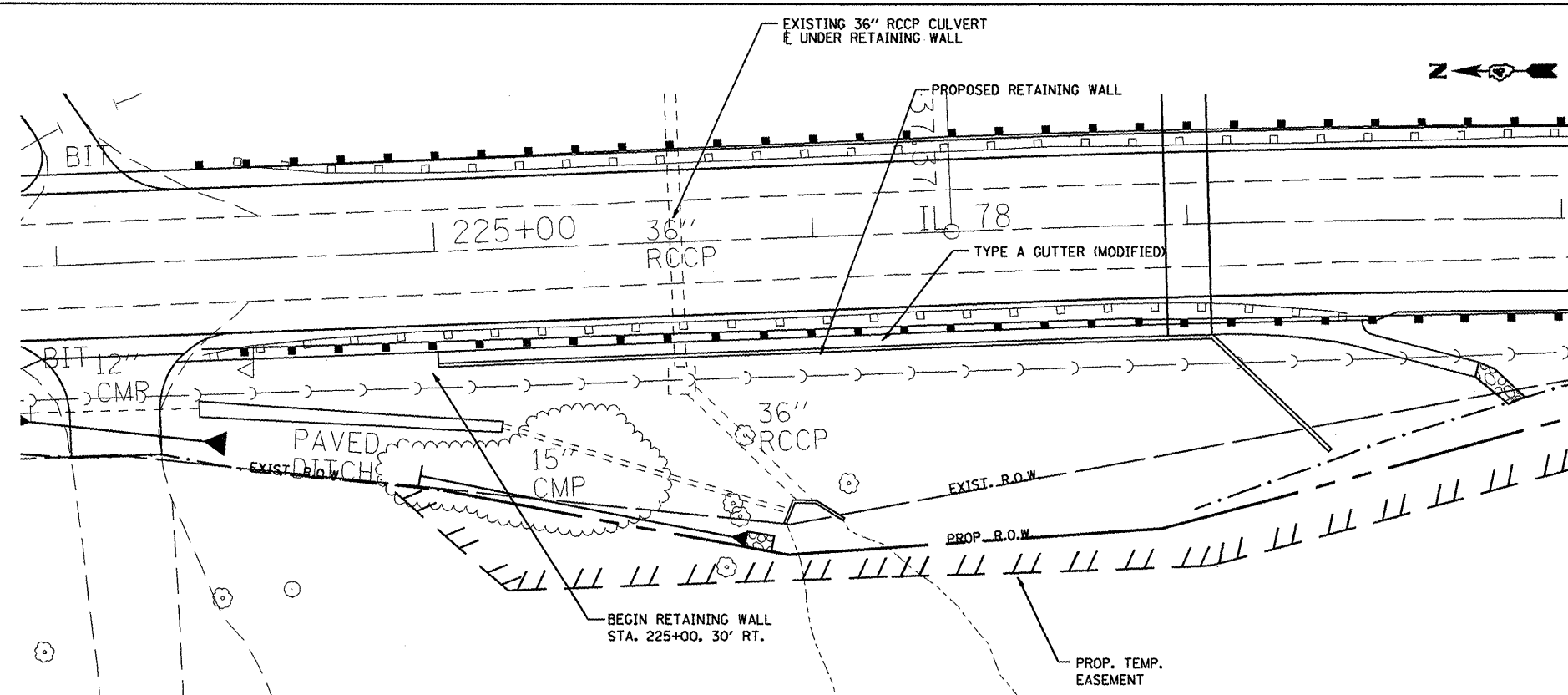
ILLINOIS DEPARTMENT OF TRANSPORTATION

Soil Borings

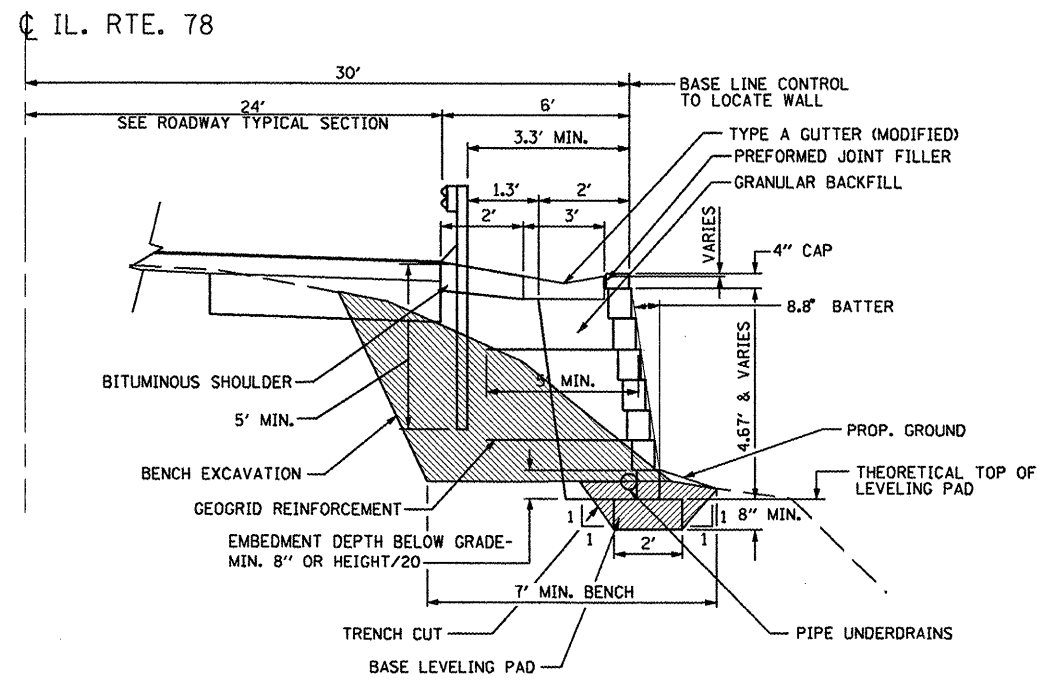
SCALE, VERT. DATE, HORIZ. DRAWN BY, CHECKED BY

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 USER NAME = hufelonne

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

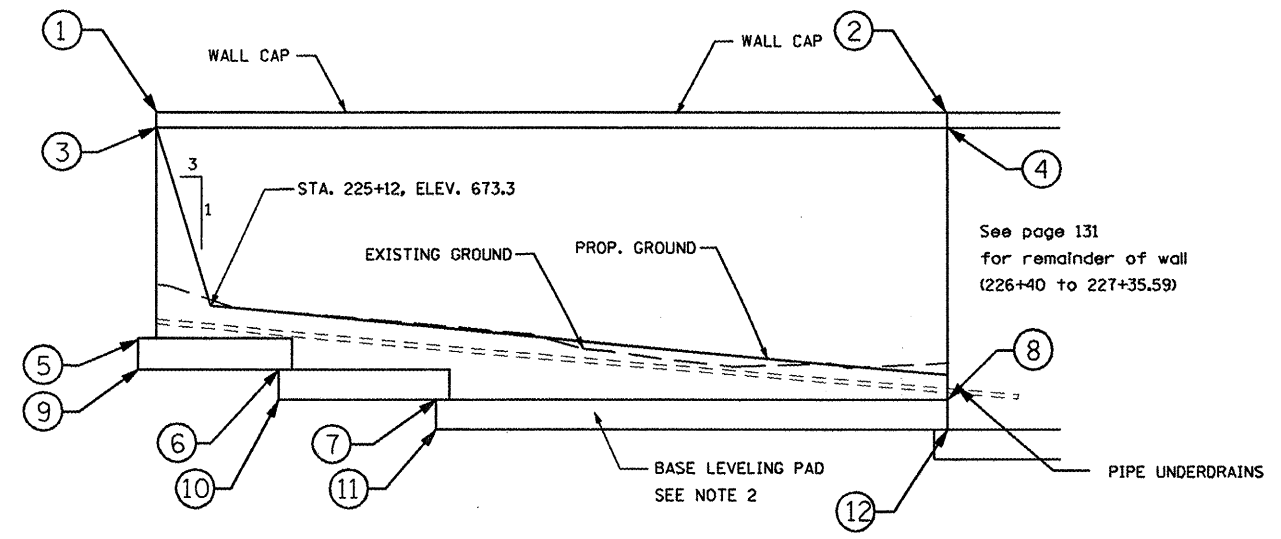


RETAINING WALL PLAN VIEW
STA. 225+00 TO STA. 226+74



RETAINING WALL DETAIL
TYPICAL SECTION

PAVING ITEMS, GUARDRAIL AND BENCH EXCAVATION ARE SHOWN IN ROADWAY PLANS AND CROSS SECTIONS.



RETAINING WALL ELEVATION
STA. 225+00 TO STA. 226+74

STATION	ELEVATION	STATION	ELEVATION
1 225+00	676.92	7 225+65	670.58
2 226+40	676.92	8 226+40	670.58
3 225+00	676.59	9 224+99	671.25
4 226+40	676.59	10 225+27	670.58
5 224+99	671.92	11 225+62	669.92
6 225+30	671.25	12 226+40	669.92

NOTES:

- QUANTITIES SHOWN IN THE BILL OF MATERIALS ARE FOR INFORMATION ONLY WITH ACTUAL QUANTITIES TO BE DETERMINED BY THE MANUFACTURER OF THE WALL SYSTEM. THOSE QUANTITIES IDENTIFIED AS "MIN." CAN BE INCREASED AS REQUIRED BY THE DESIGNER BUT CAN ONLY BE DECREASED IN PROPORTION TO A REDUCTION IN THE SQUARE FOOTAGE OF WALL CONSTRUCTED.
- THE BASE LEVELING PAD MAY BE EITHER CRUSHED STONE OR CONCRETE.

BILL OF MATERIALS (FOR INFORMATION ONLY)		
WALL CAP	LIN FT	291
MODULAR BLOCK	SQ FT	1598
TRENCH CUT	CU YD	48
GRANULAR BACKFILL (MIN.)	CU YD	462
GEO GRID (MIN.)	SQ YD	226
PIPE UNDERDRAINS	LIN FT	236
PIPE UNDERDRAINS (SPECIAL)	LIN FT	36
CONCRETE HEADWALLS FOR PIPE UNDERDRAINS	EACH	2
BASE LEVELING PAD (MIN.)	CU YD	12
PAY ITEMS		
MODULAR RETAINING WALL SYSTEM	SQ FT	1695

REVISIONS	
NAME	DATE

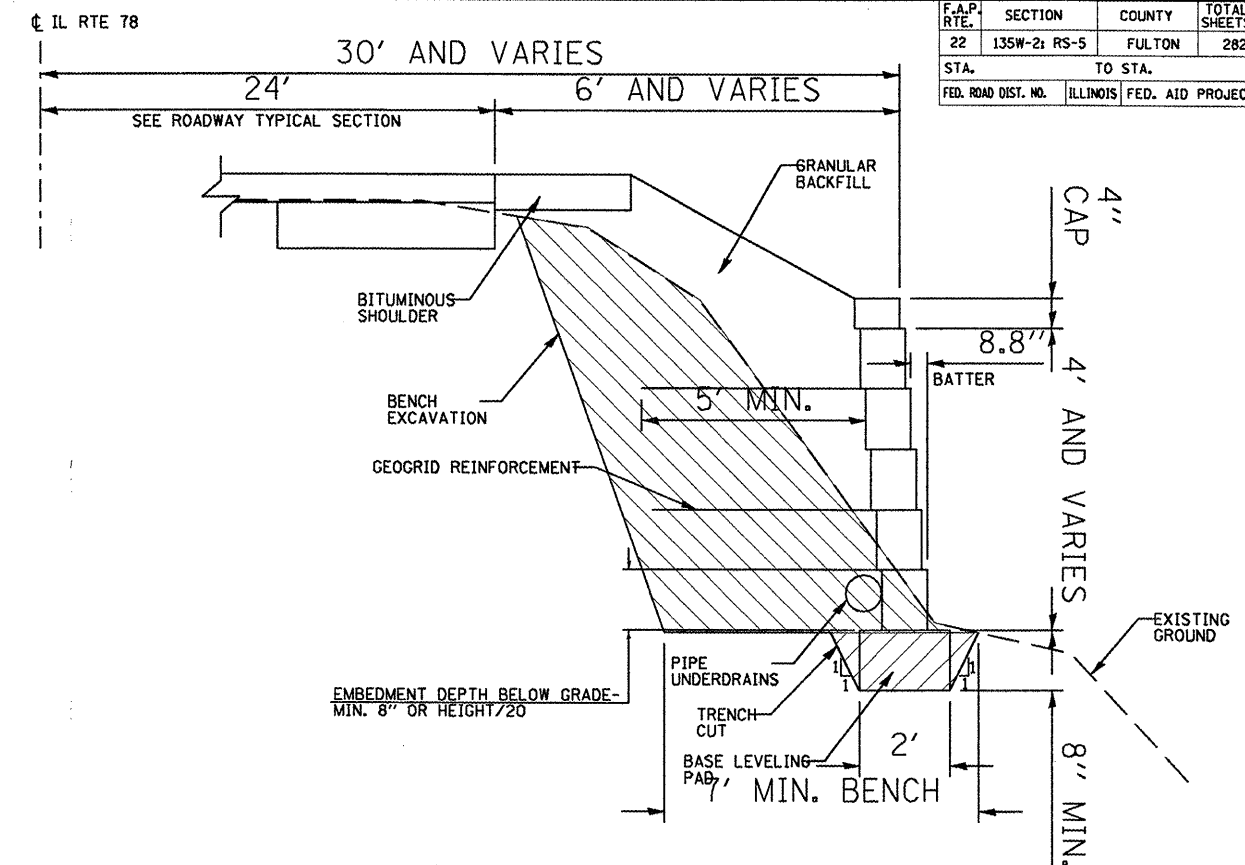
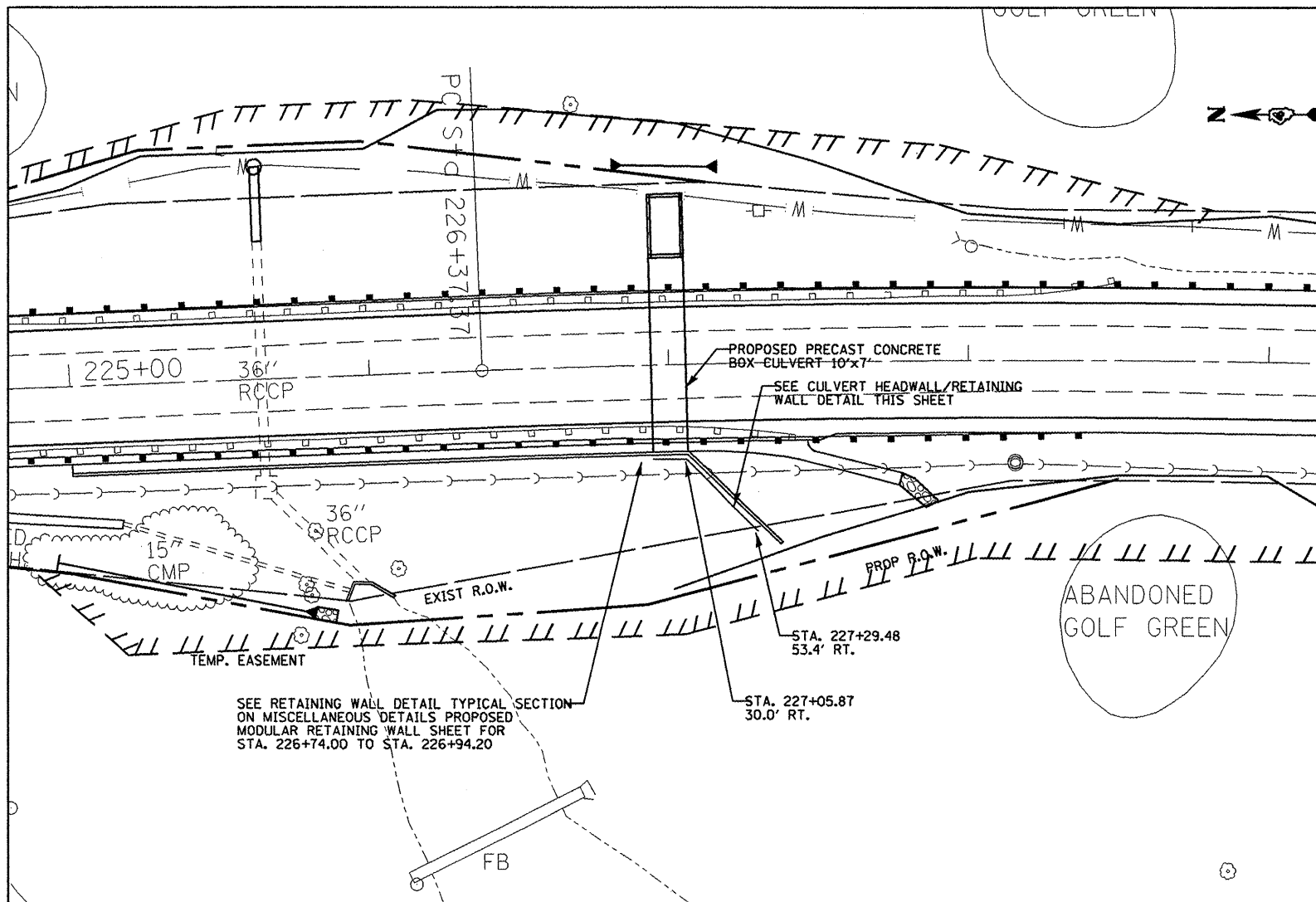
ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED MODULAR
RETAINING WALL (1 of 2)

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
DATE

PLOT DATE = 8/19/2008
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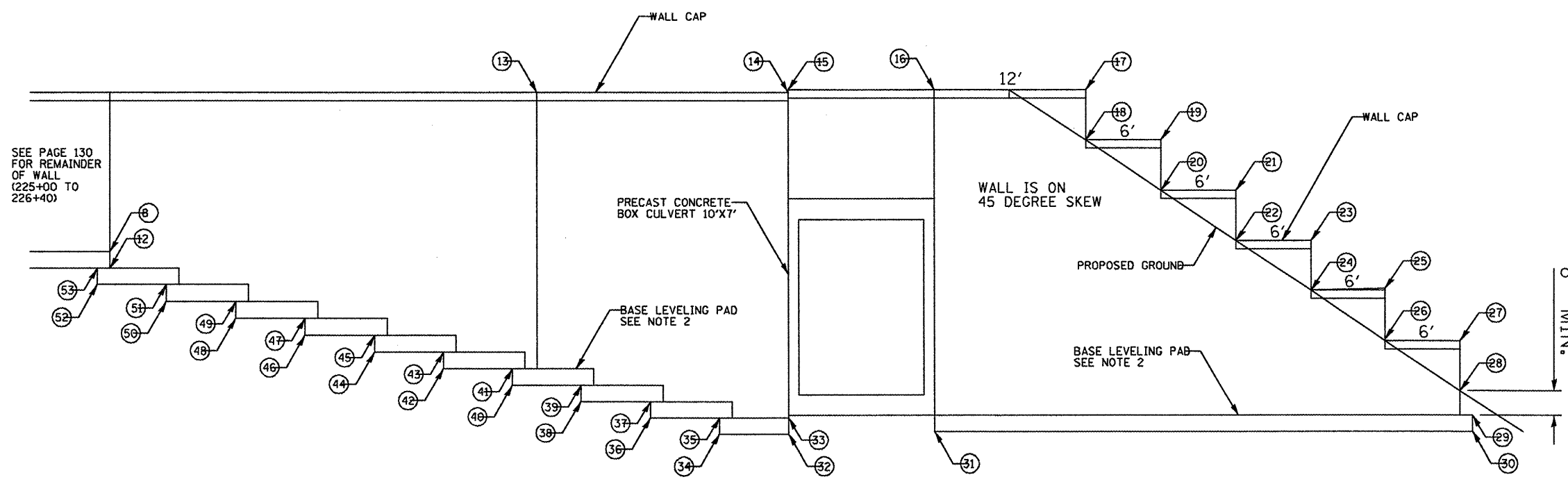
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	131
STA. TO STA.		ILLINOIS FED. AID PROJECT		



CULVERT HEADWALL/RETAINING WALL DETAIL
NO SCALE

NO.	STATION	ELEV.
13	226+74.00	676.92
14	226+94.00	676.92
15	226+94.00	677.12
16	227+05.87	677.12
17	227+14.36	677.12
18	227+14.36	675.12
19	227+18.81	675.12
20	227+18.81	673.12
21	227+22.85	673.12
22	227+22.85	671.12
23	227+27.10	671.12
24	227+27.10	669.12
25	227+31.34	669.12
26	227+31.34	667.12
27	227+35.59	667.12
28	227+35.59	665.12
29	227+36.59	664.12
30	227+36.59	663.45
31	227+05.87	663.45
32	226+94.00	663.25
33	226+94.00	663.92

NO.	STATION	ELEV.
34	226+88.50	663.25
35	226+88.50	663.92
36	226+83.00	663.92
37	226+83.00	664.59
38	226+77.50	664.59
39	226+77.50	665.25
40	226+72.00	665.25
41	226+72.00	665.92
42	226+66.50	665.92
43	226+66.50	666.59
44	226+61.00	666.59
45	226+61.00	667.26
46	226+55.50	667.26
47	226+55.50	667.92
48	226+50.00	667.92
49	226+50.00	668.59
50	226+44.50	668.59
51	226+44.50	669.26
52	226+39.00	669.26
53	226+39.00	669.92



HEADWALL/RETAINING WALL ELEVATION
STA. 226+39.00 TO STA. 227+36.59

NOTES:

- QUANTITIES SHOWN IN THE BILL OF MATERIALS ARE FOR INFORMATION ONLY WITH ACTUAL QUANTITIES TO BE DETERMINED BY THE MANUFACTURER OF THE WALL SYSTEM. THOSE QUANTITIES IDENTIFIED AS "MIN." CAN BE INCREASED AS REQUIRED BY THE DESIGNER BUT CAN ONLY BE DECREASED IN PROPORTION TO A REDUCTION IN THE SQUARE FOOTAGE OF WALL CONSTRUCTED.
- THE BASE LEVELING PAD MAY BE EITHER CRUSHED STONE OR CONCRETE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED MODULAR RETAINING WALL (2 OF 2)

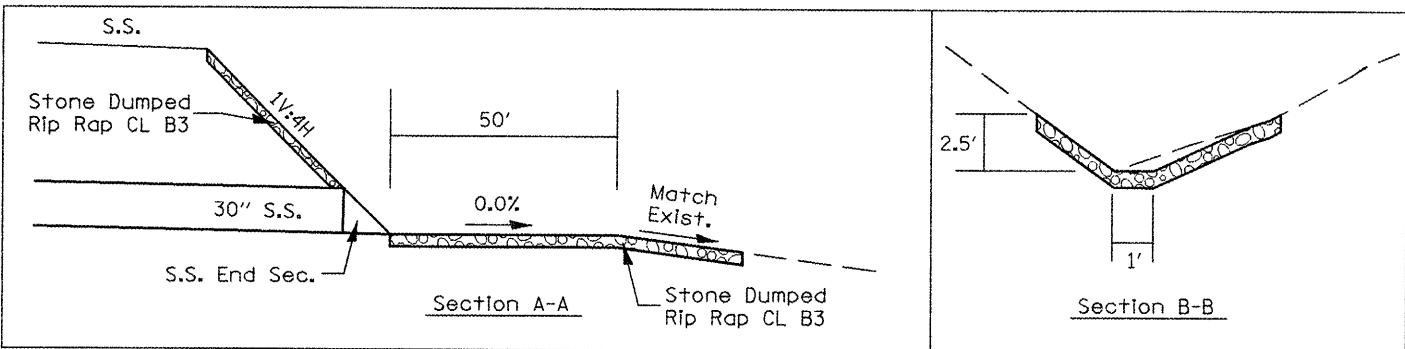
SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

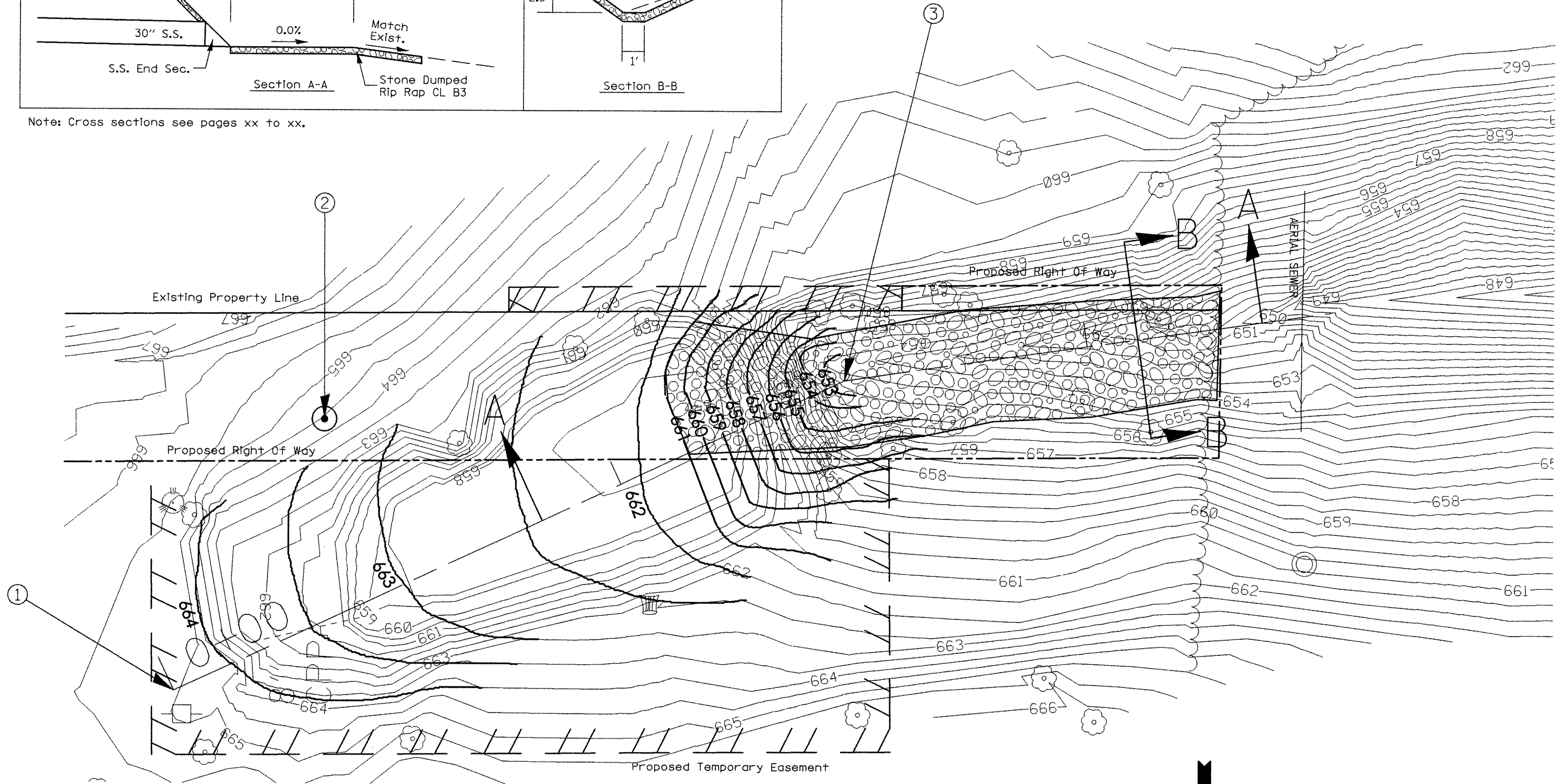
MAUER & STUTZ, INC.
SURVEYORS

PLOT DATE = 8/19/2008
FILE NAME = c:\p\proj\117\hamon\g\new\02.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = hudson

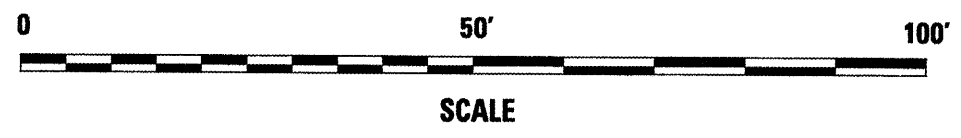
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2j RS-5	FULTON	282	132
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



Note: Cross sections see pages xx to xx.



	Storm Sewer Outlet	IL 78 Survey Line
#1 (P.I.)	0+00.00	253+27.58 299.41' RT
#2 (Manhole)	0+51.05 37.44' LT	253+83.00 330.00' RT
#3 (Outlet)	1+50.00	253+90.62 435.52' RT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

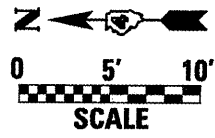
Storm Sewer Outlet Detail

SCALE: VERT. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

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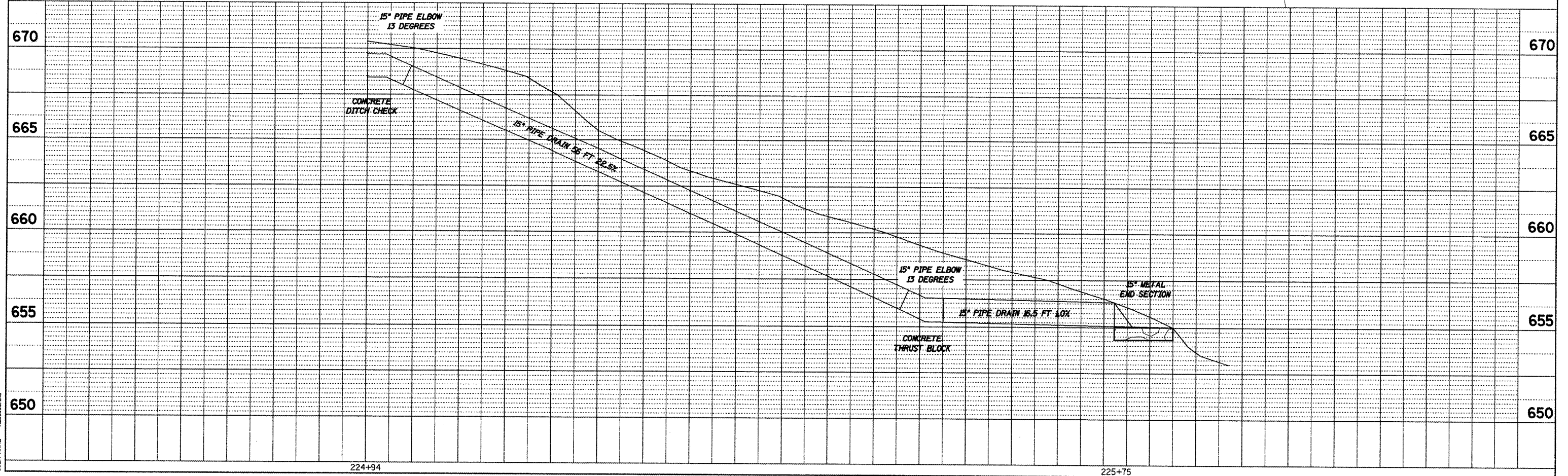
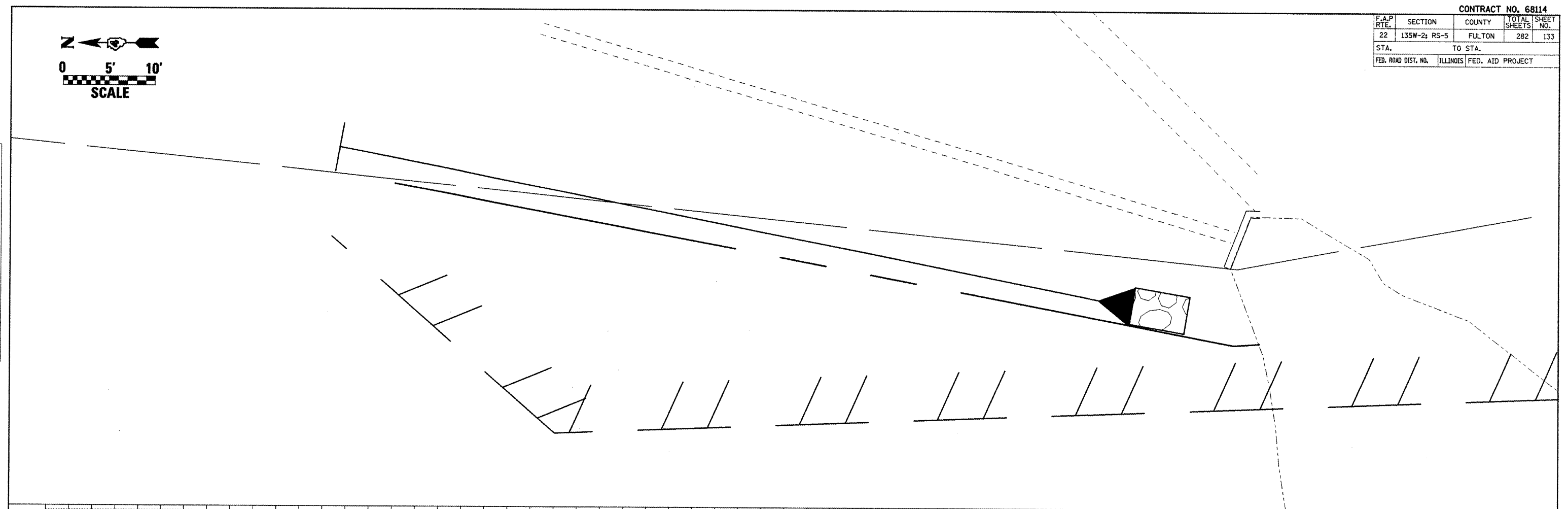
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	133
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
BY	

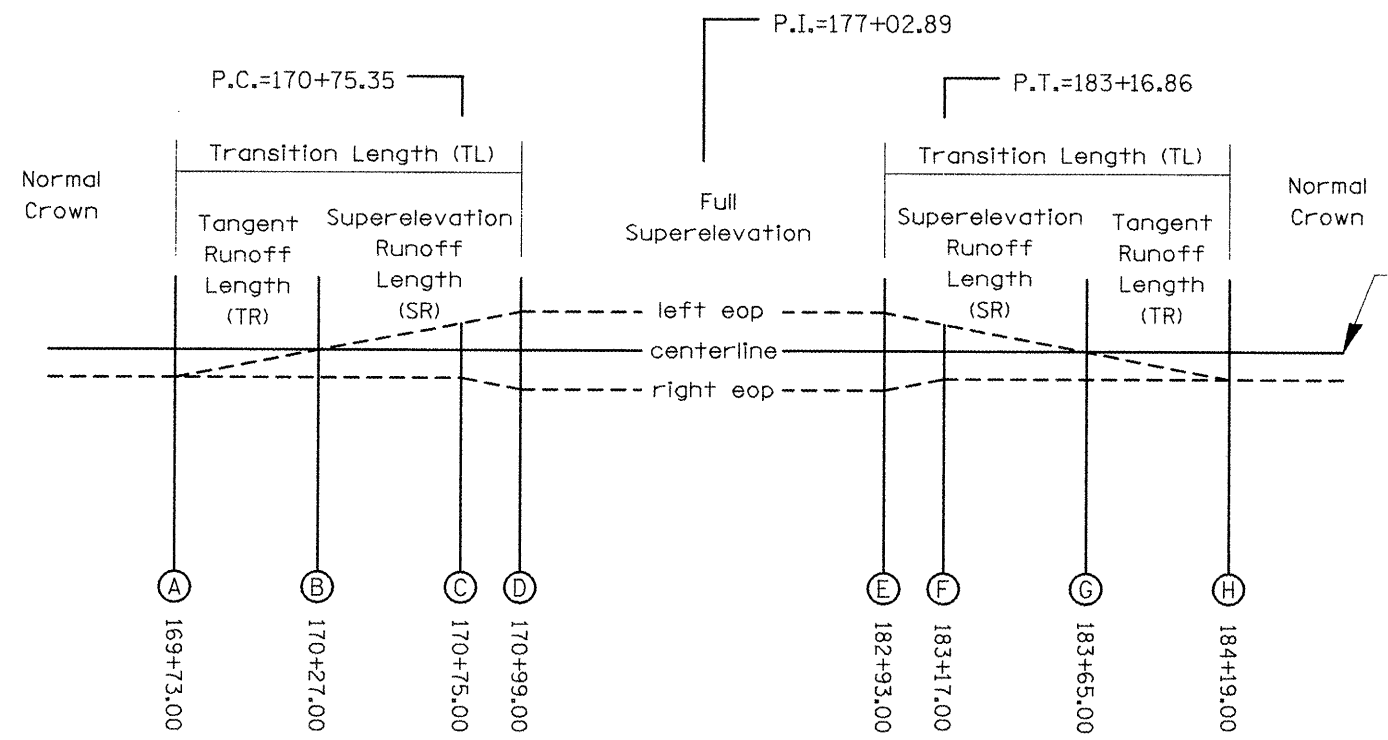
PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
BY	

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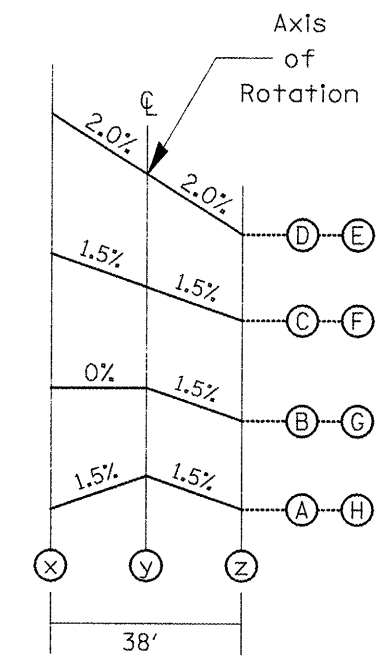


PIPE DRAIN DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2+ RS-5	FULTON	282	135
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PROFILE



CROSS SECTION

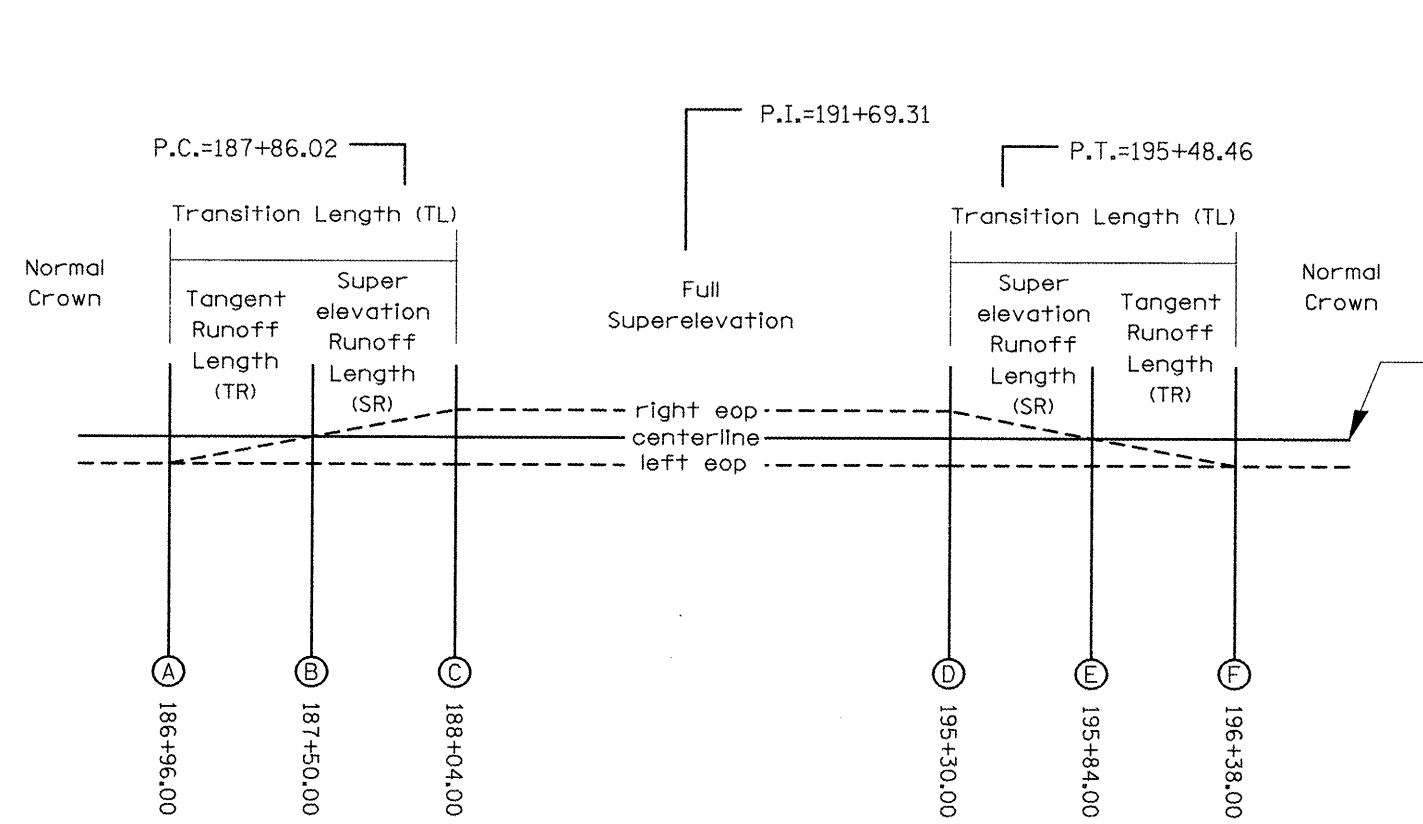
S.E. = 2.0%
TL = 126 feet
SR = 72 feet
TR = 54 feet

SUPERELEVATION INFO

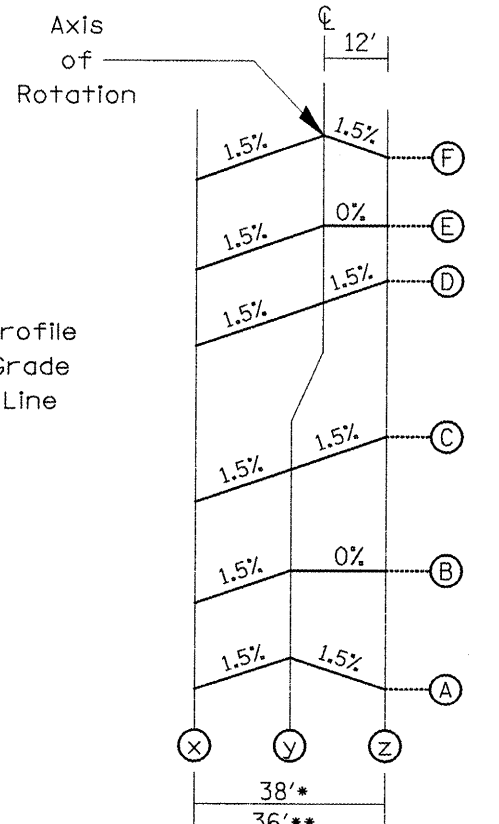
	x	y	z
A	700.03	700.31	700.03
B	700.08	700.08	699.80
C	700.18	699.89	699.61
D	700.18	699.80	699.42
E	688.43	688.05	687.67
F	688.07	687.78	687.50
G	687.22	687.22	686.94
H	686.31	686.59	686.31

ELEVATIONS

EXISTING CURVE #1
(curve data see page 36)



PROFILE



*sta. 186+96 to 188+44
**sta. 188+44 to 196+38

S.E. = 1.5%
TL = 108 feet
SR = 54 feet
TR = 54 feet

SUPERELEVATION INFO

	x	y	z
A	683.48	683.76	683.48
B	683.52	683.23	683.52
C	682.58	682.86	683.15
D	679.17	679.53	679.71
E	679.59	679.95	677.59
F	680.02	680.38	680.20

ELEVATIONS

EXISTING CURVE #2
(curve data see page 36)

PLOT DATE = 8/18/2008
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PLOT SCALE = 1/8"=1'-0"
USER NAME = rhdts

REVISIONS	
NAME	DATE

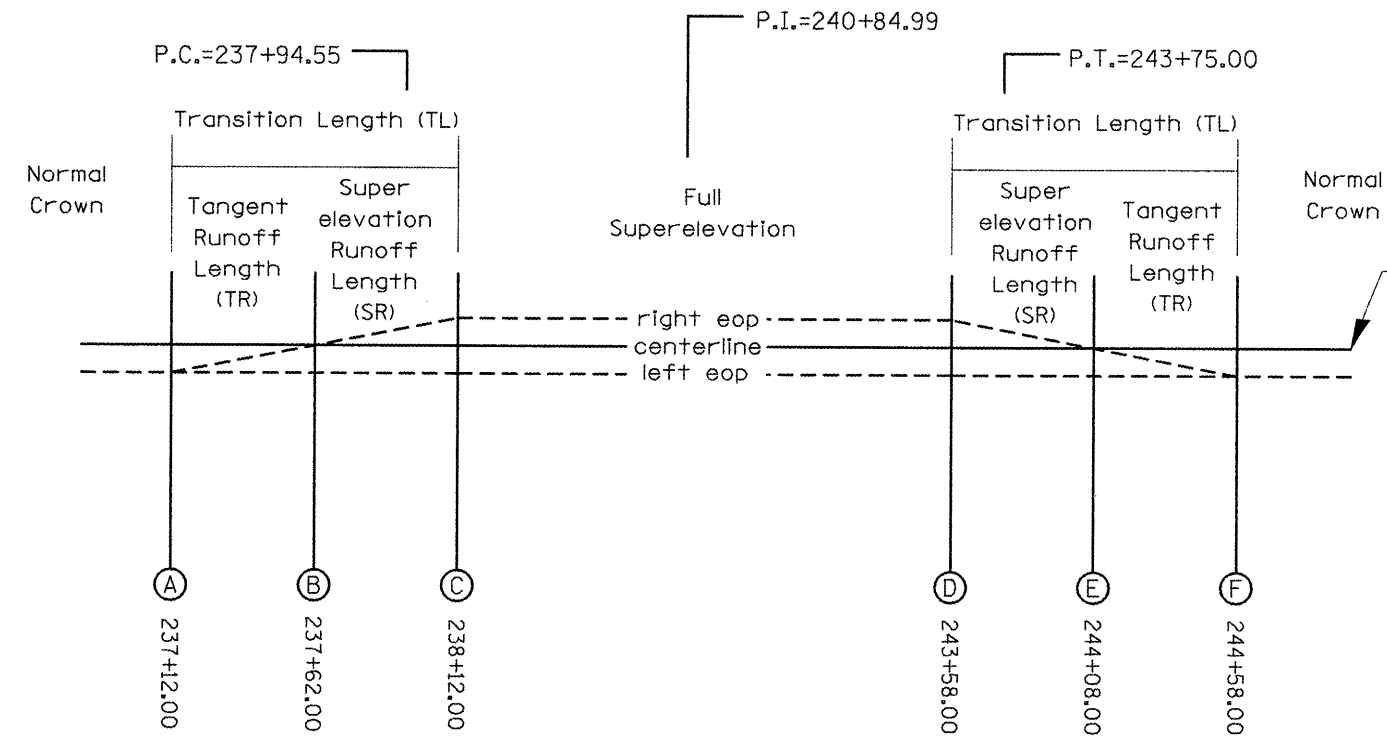
ILLINOIS DEPARTMENT OF TRANSPORTATION

Superelevation Details
Exist. Curves #1 and #2

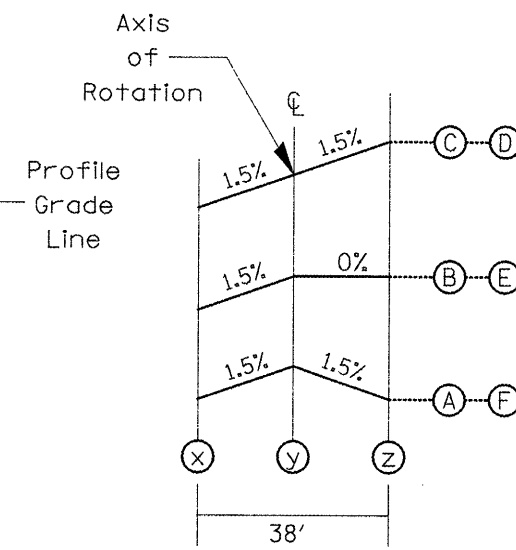
SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	137
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PROFILE



CROSS SECTION

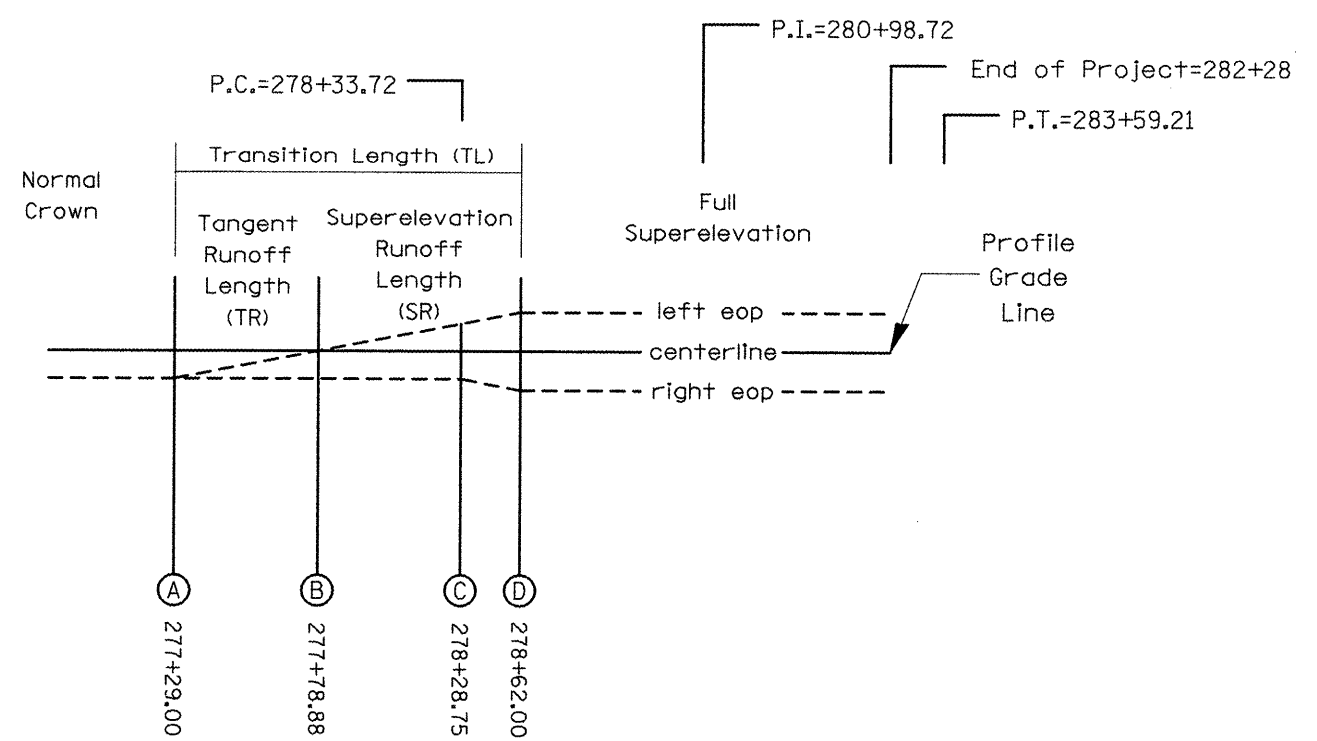
S.E. = 1.5%
 TL = 100 feet
 SR = 50 feet
 TR = 50 feet

SUPERELEVATION INFO

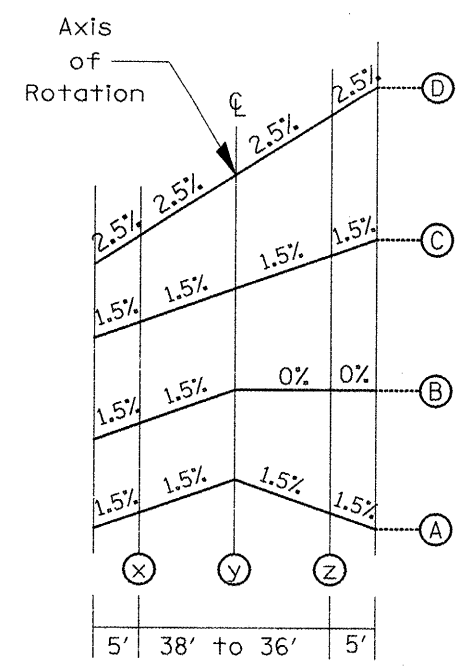
	x	y	z
A	677.81	678.09	677.81
B	678.69	678.40	678.40
C	678.43	678.71	679.00
D	679.14	679.42	679.71
E	679.57	679.28	679.28
F	678.87	679.15	678.87

ELEVATIONS

EXISTING
 CURVE #5
 (curve data
 see page 36)



PROFILE



CROSS SECTION

S.E. = 2.0%
 TL = 133 feet
 SR = 83 feet
 TR = 50 feet

SUPERELEVATION INFO

	x	y	z
A	667.85	668.13	667.85
B	668.29	668.00	668.00
C	667.45	667.73	668.02
D	667.07	667.54	668.02

ELEVATIONS

EXISTING
 CURVE #6
 (curve data
 see page 36)

PLOT DATE = 8/18/2008
 FILE NAME = c:\p\proj\p178\autocad\genera2.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = hudson

REVISIONS	
NAME	DATE

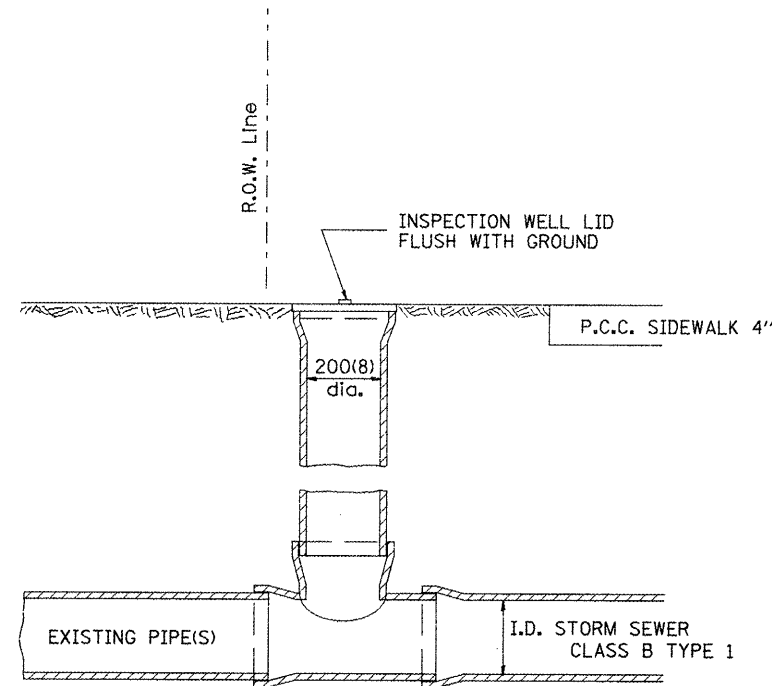
ILLINOIS DEPARTMENT OF TRANSPORTATION
Superelevation Details
Exist. Curves #5 and #6
 SCALE: VERT. DATE
 HORIZ. DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	138
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

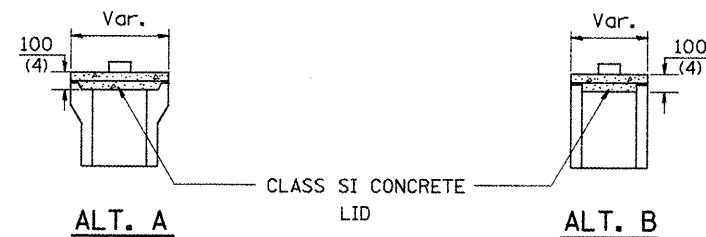
Inspection Well

GENERAL NOTES:

1. STORM SEWER, PROTECTED 200(8) shall be used for the inspection well and riser regardless of existing pipe size. PVC pipe shall not be used for inspection wells.
2. Inspection wells shall be placed just inside of the R.O.W. line at the locations shown on the plans unless arrangements are made by the land acquisition unit to have the wells placed on the property owners side of the R.O.W.
3. The inspection well concrete lid shall be constructed of P.C. concrete CLASS SI CONCRETE and provide with a handle shaped from a #15(*4) reinforcing bar.
4. Where the elevation of the existing pipes allow, the existing pipes may be allowed to empty into the proposed ditch instead of using an inspection well.



INSPECTION WELL
Detail "A"

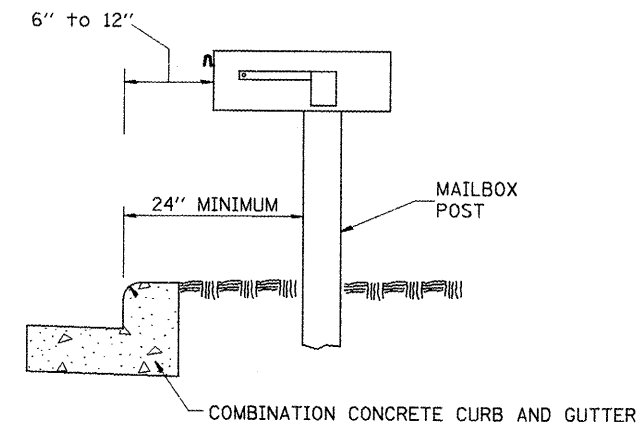


INSPECTION WELL CONCRETE LID
Detail "B"

Urban Mailbox Placement

GENERAL NOTES

1. The setting of mail boxes in their permanent locations will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed, in accordance with Article 107.21.
2. Mailboxes shall be mounted such that the face of the mailbox is 6" to 12" and the post a minimum of 24" from the face of the curb.

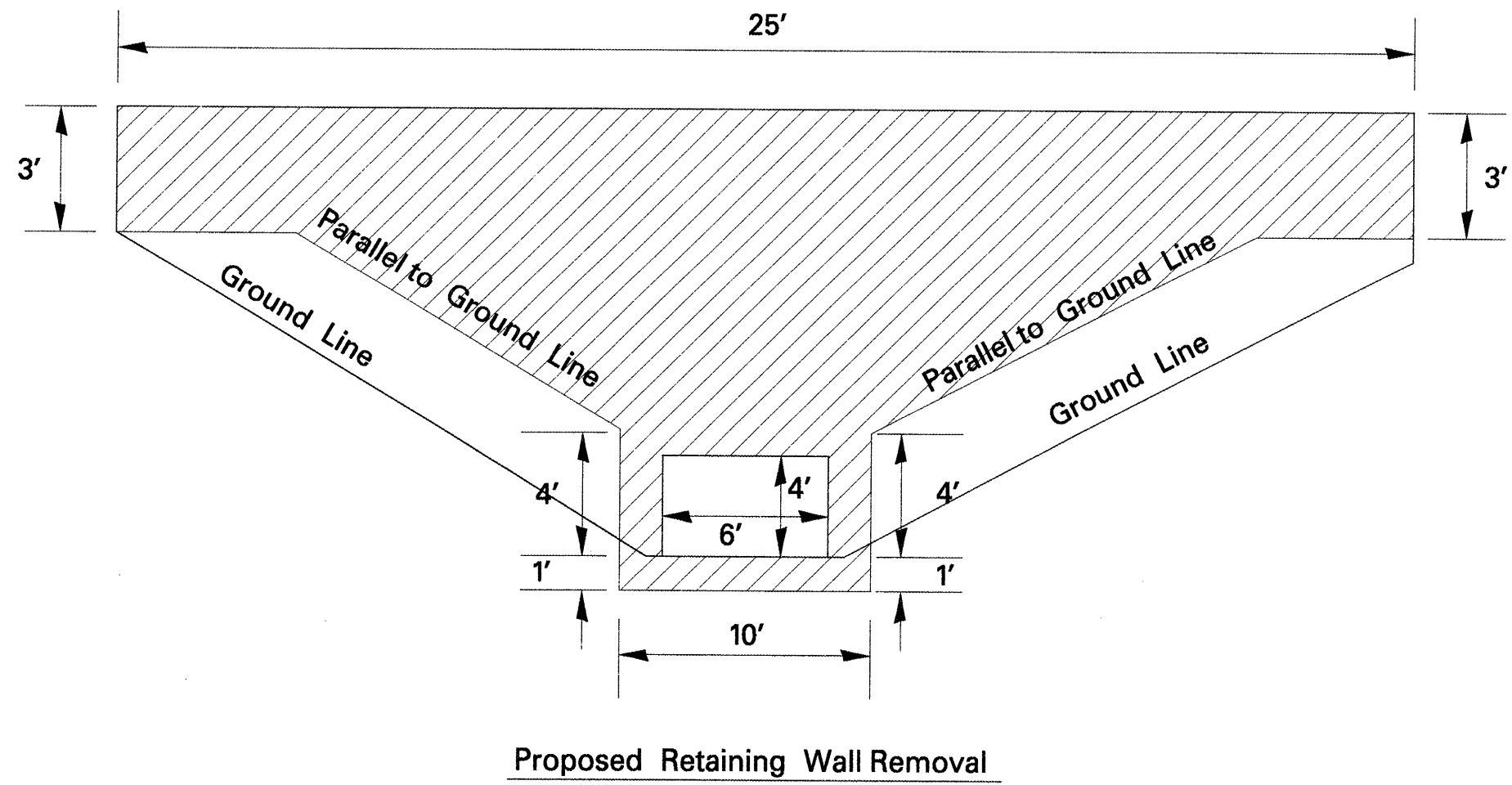
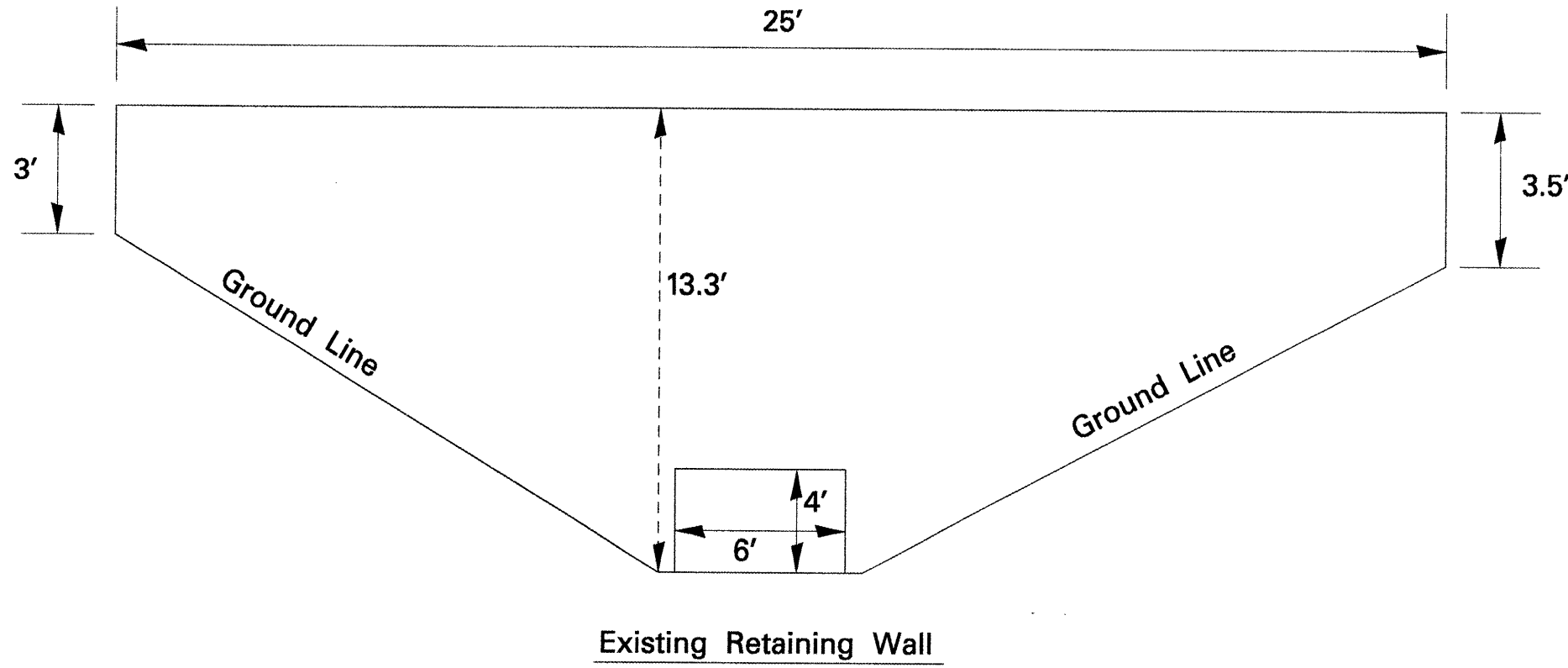


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
Inspection Well & Urban Mailbox Placement Details
SCALE: VERT. DATE
HORIZ. DRAWN BY
CHECKED BY

PLOT DATE = 8/16/2006
 FILE NAME = c:\p17\bauntcon\general2.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = huda@acme

CONTRACT NO. 68114				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	140
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



 Retaining Wall Removal (Sq. Ft.)

Retaining Wall Removal
188 Sq Ft
RT Sta. 190 + 55

REVISIONS	
NAME	DATE

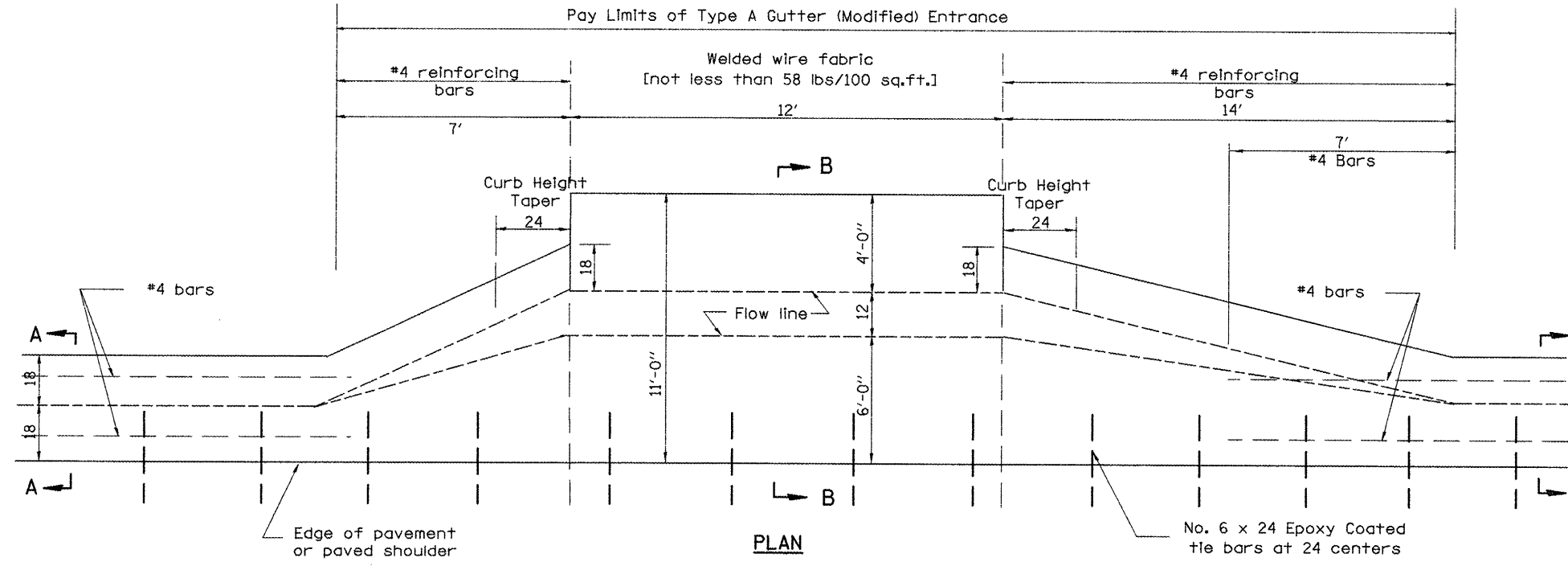
ILLINOIS DEPARTMENT OF TRANSPORTATION
Retaining Wall Removal Detail
(not to scale)

SCALE: VERT. _____
HORIZ. _____

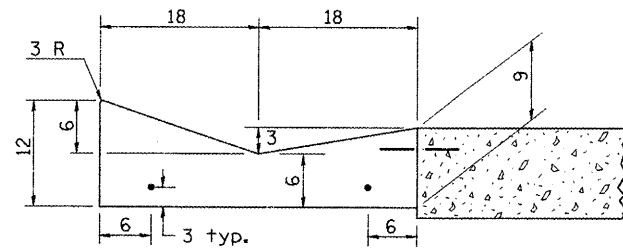
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CHECKED BY _____

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USER NAME = hudelecm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2: RS-5	FULTON	282	141
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN
PRIVATE ENTRANCE LT 231+88.28



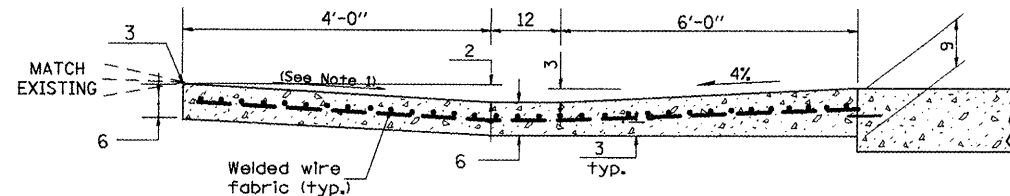
SECTION A-A & C-C

SECTION B-B

GENERAL NOTES

- Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.
- The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.

All dimensions are in inches unless otherwise noted.



SECTION B-B

REVISIONS	
NAME	DATE

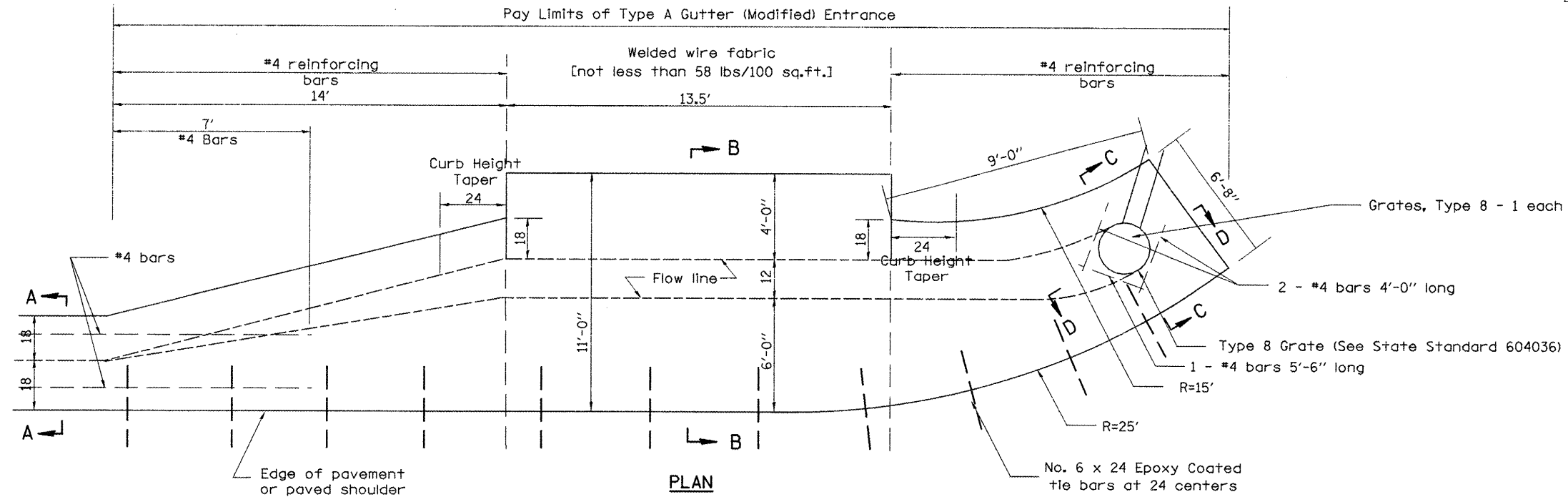
ILLINOIS DEPARTMENT OF TRANSPORTATION

Entrance Details
LT Sta 231+88.28
(not to scale)

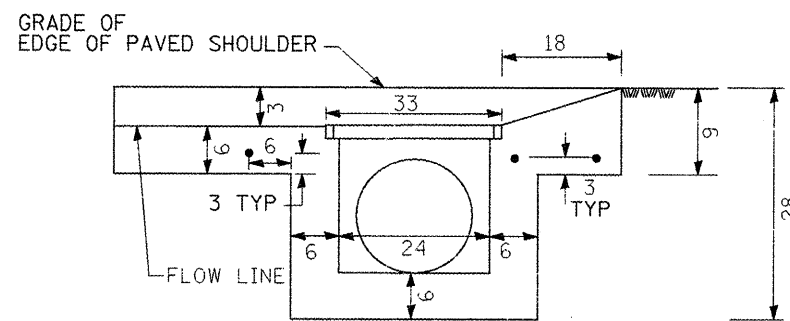
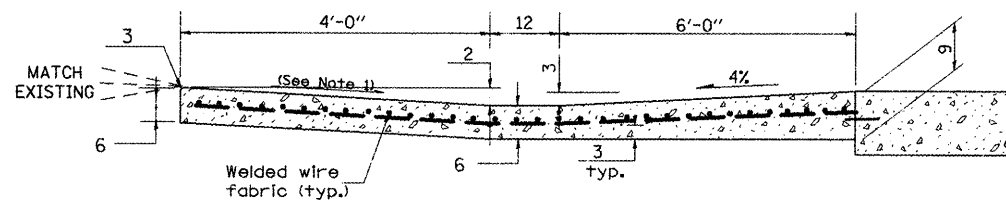
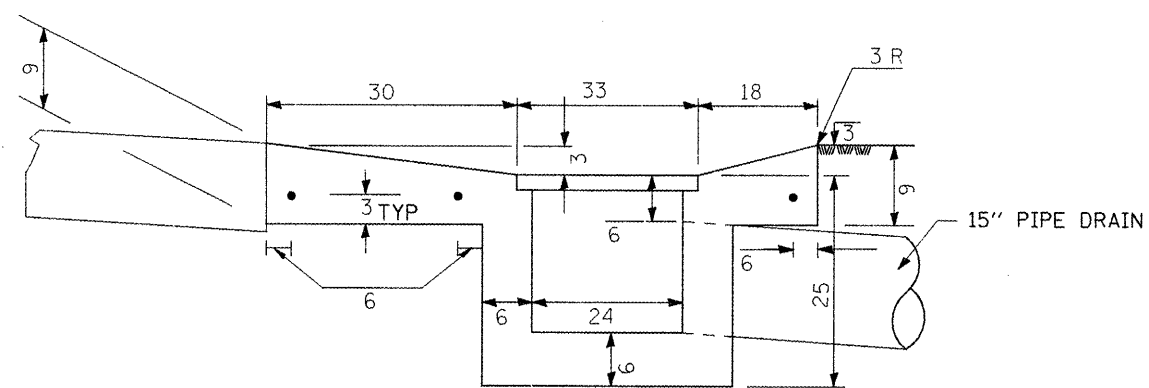
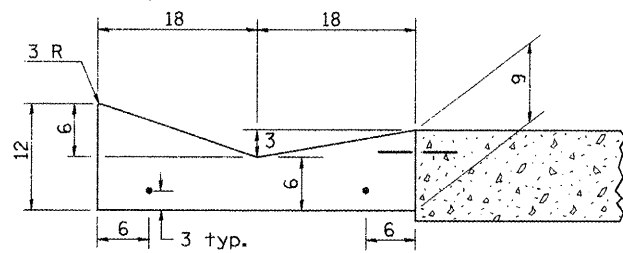
SCALE: VERT. DATE
HORIZ.

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	142
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN
PRIVATE ENTRANCE RT 232+26.88



GENERAL NOTES

- The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.

All dimensions are in inches unless otherwise noted.

REVISIONS	
NAME	DATE

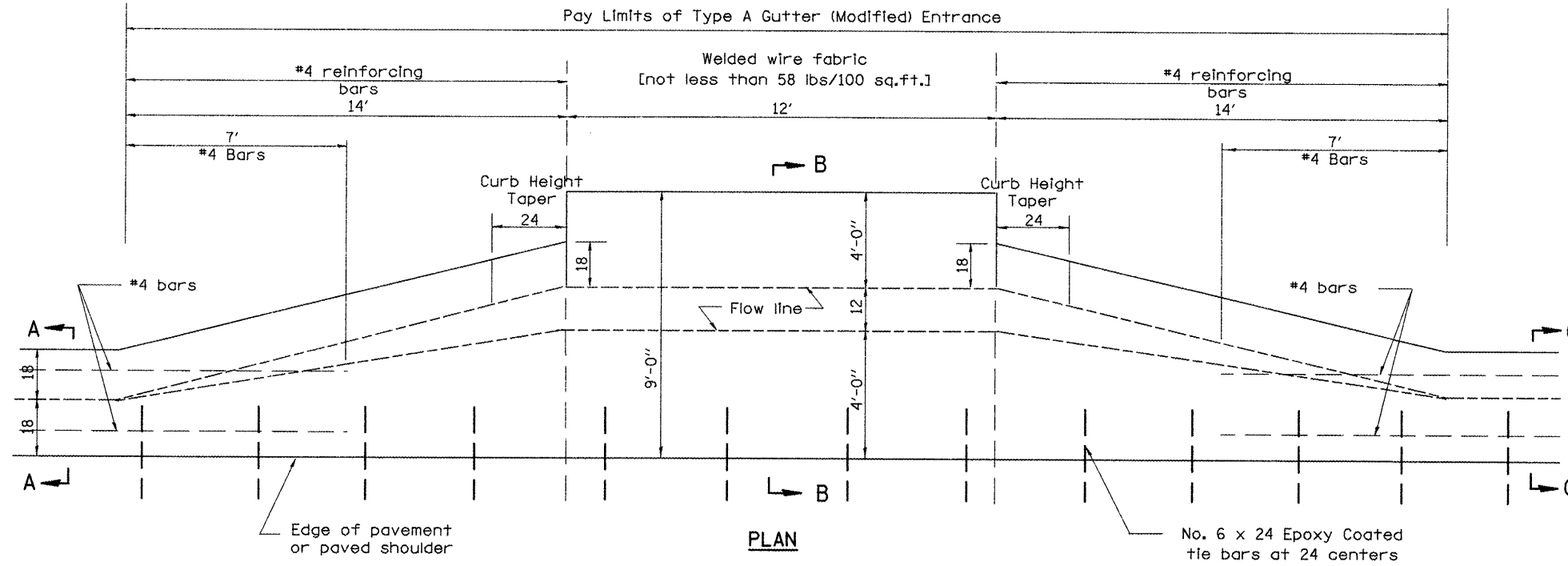
ILLINOIS DEPARTMENT OF TRANSPORTATION

Entrance Details
RT Sta 232 + 26.88
(not to scale)

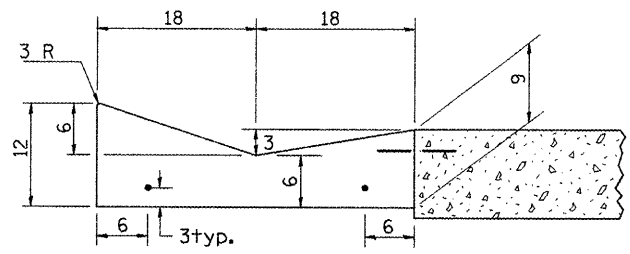
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HORIZ.
DATE

DRAWN BY
CHECKED BY

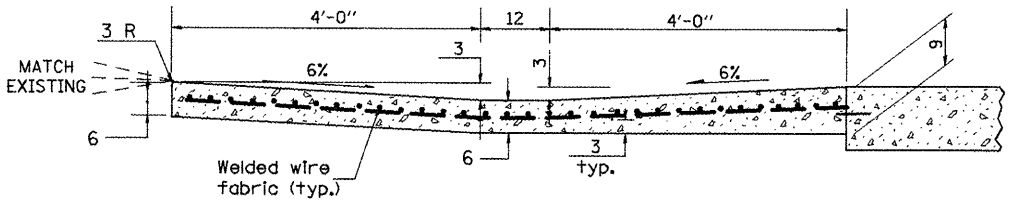
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	143
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN
PRIVATE ENTRANCE LT 234+58.12



SECTION A-A & C-C



SECTION B-B

GENERAL NOTES

- The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.

All dimensions are in inches unless otherwise noted.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Entrance Details
LT Sta 234+58.12
(not to scale)

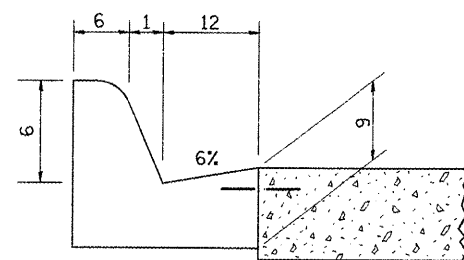
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HORIZ. _____

DATE _____

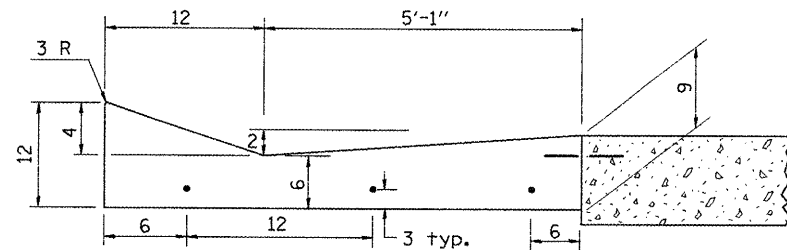
DRAWN BY _____
CHECKED BY _____

PLOT DATE = 8/10/2000
FILE NAME = c:\p135w-21\rs-5\135w-21\178\entrance\generat2.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = hudec@omni

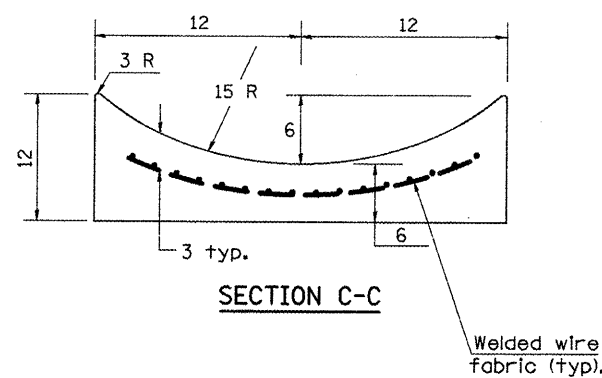
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2+ RS-5	FULTON	282	144
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A

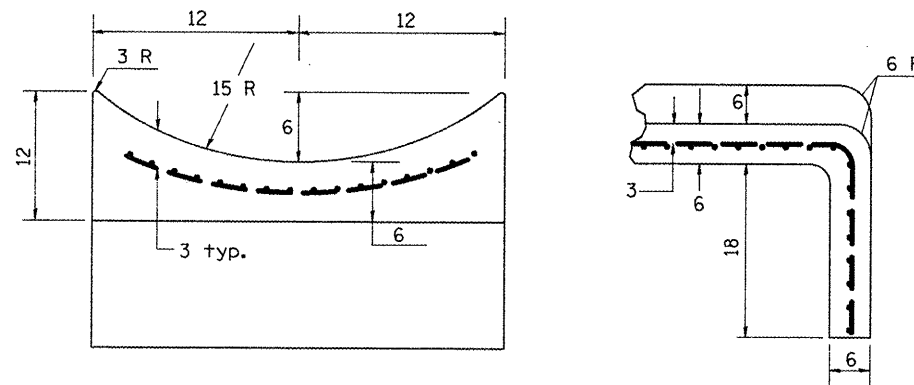
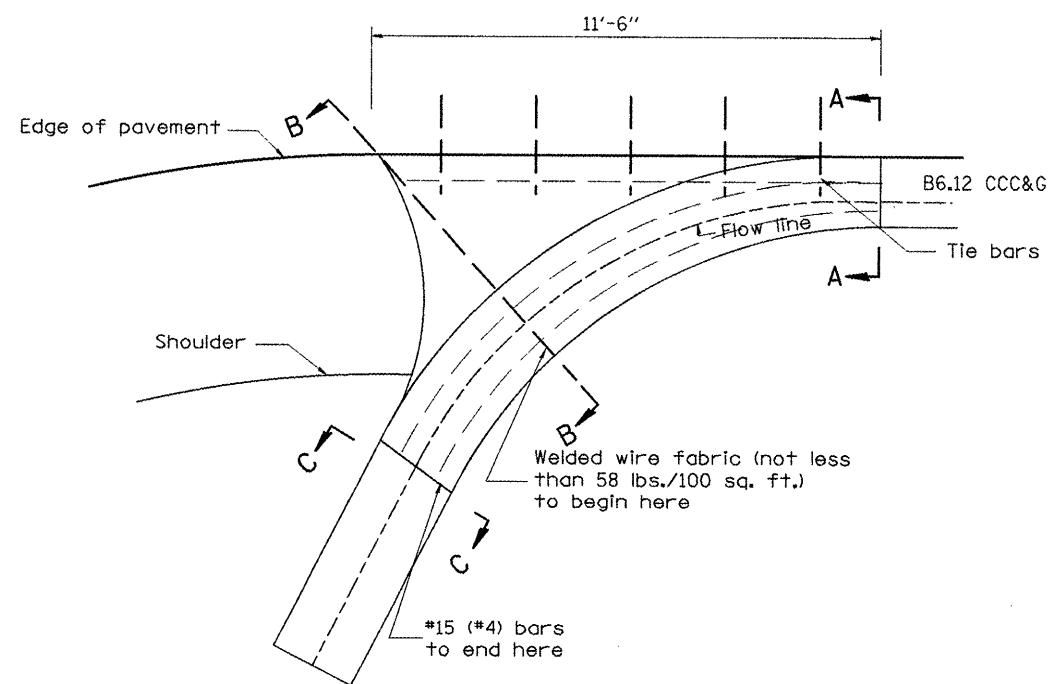


SECTION B-B



SECTION C-C

Welded wire fabric (typ.)



SECTIONS AT END OF OUTLET
(CURTAIN WALL)

All dimensions are in inches unless otherwise noted.

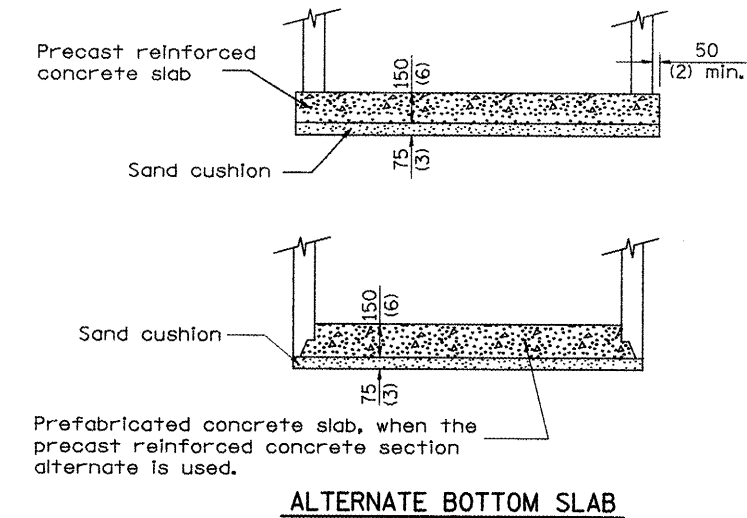
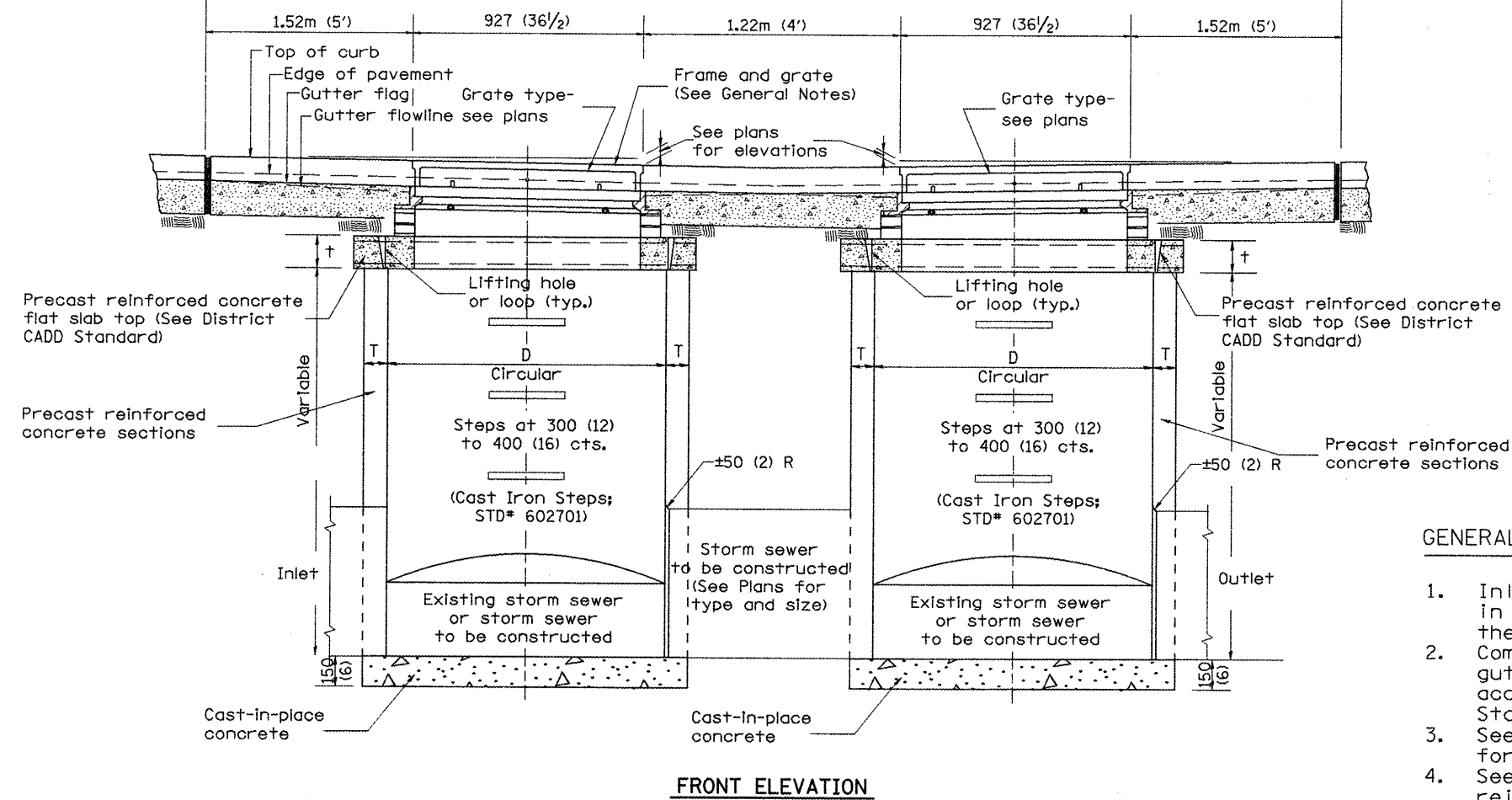
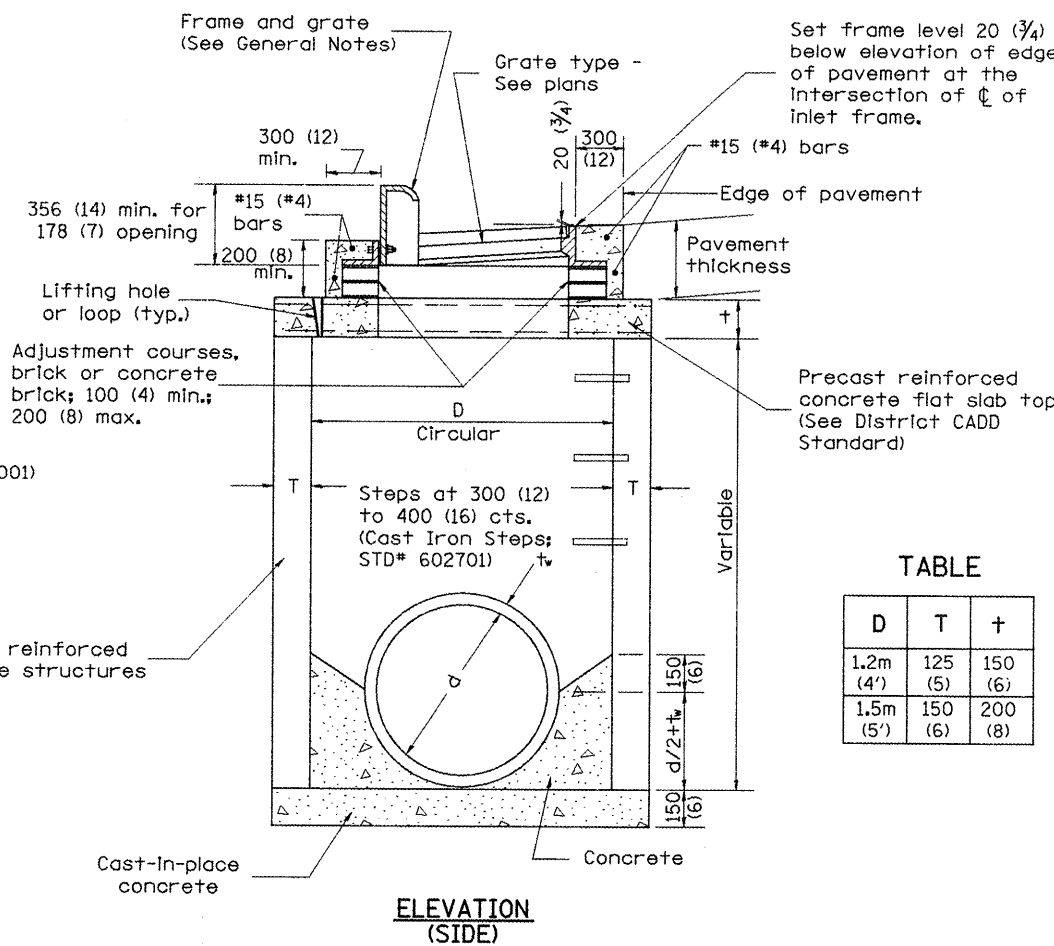
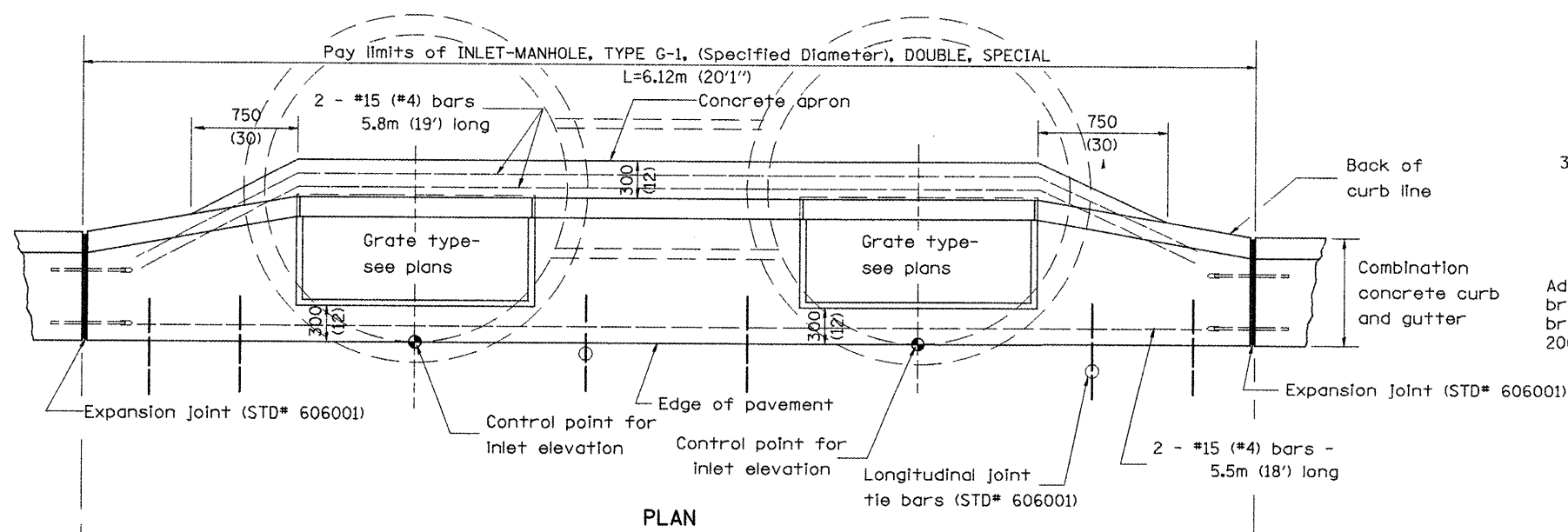
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CCC&G Outlet Detail
RT Sta 242+21
(not to scale)

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	145
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



- GENERAL NOTES**
1. Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
 2. Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
 3. See District CADD Standard 604001-D4 for frame and grates.
 4. See District CADD Standard for precast reinforced concrete flat slab top.

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

Inlet-Manhole, Type G-1 Double, Special

SCALE NOT TO SCALE DRAWN BY CADD CHECKED BY

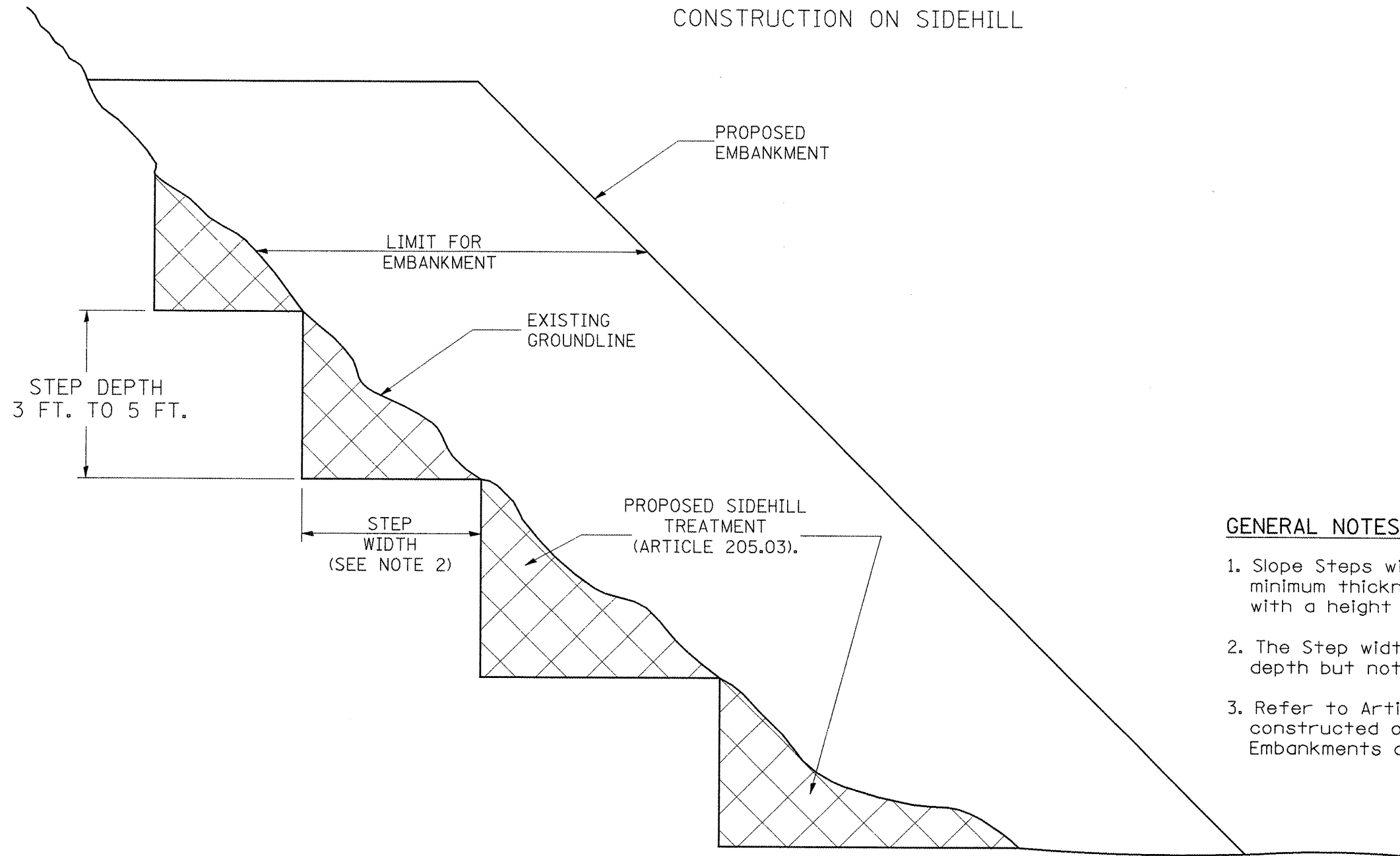
\$\$\$DATE\$\$\$

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	146
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

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

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

REPLACEMENT MATERIAL:



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

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.

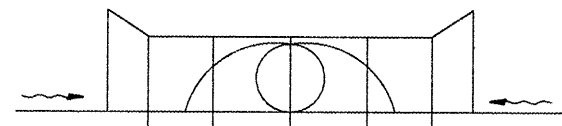
**SLOPE STEPS
DETAIL**

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

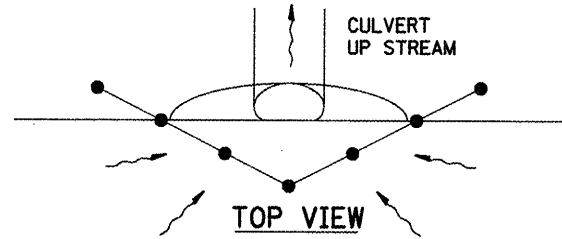
DRAWN BY CADD
CHECKED BY

DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	147
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

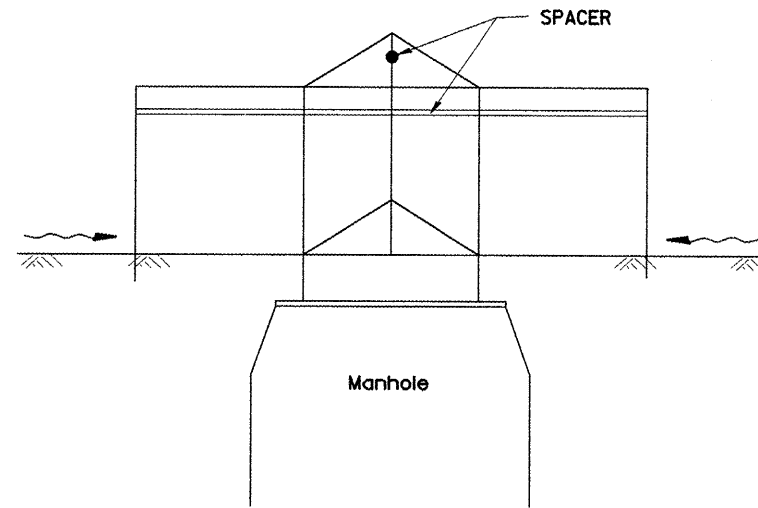


FRONT VIEW

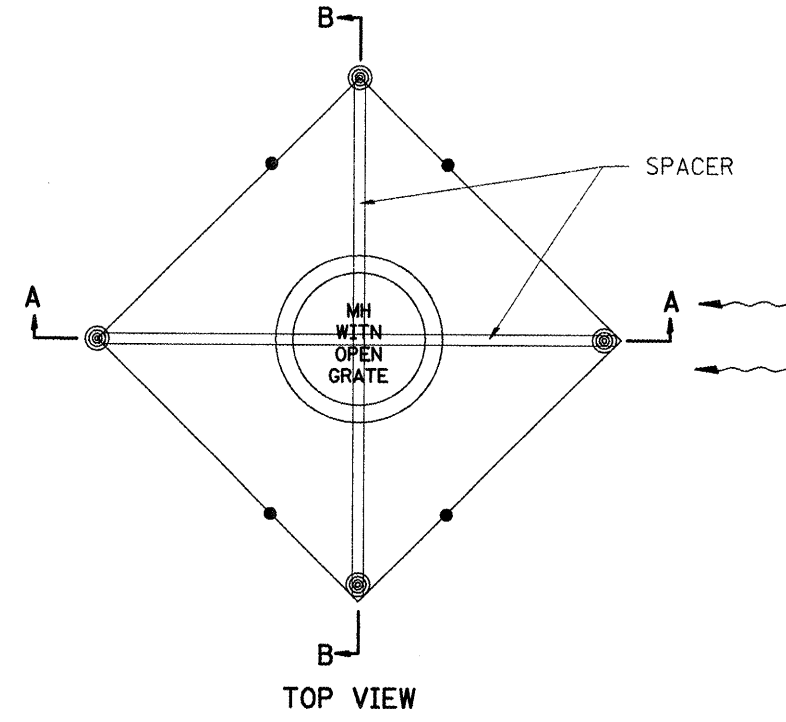


TOP VIEW

UPSTREAM PIPE CULVERT EROSION CONTROL



SIDE VIEW
A-A



TOP VIEW

GENERAL NOTES:

1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

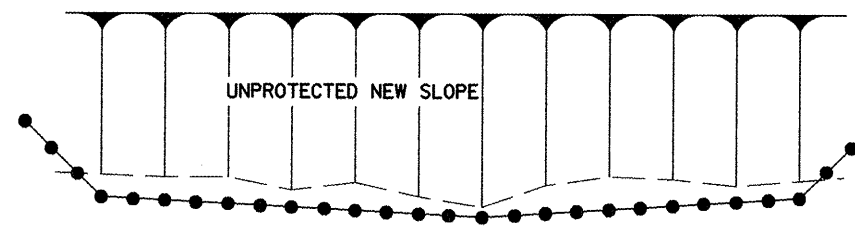
SPECIAL DETAIL SHEET

TYPICAL APPLICATION
OF
SILT FILTER FENCE

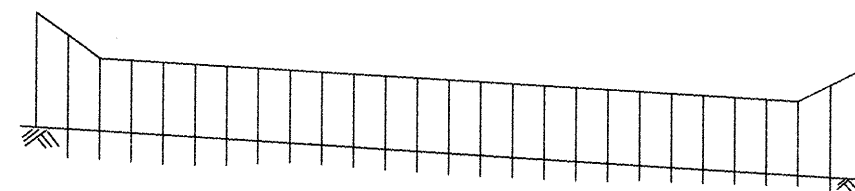
CADD DETAIL 280001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

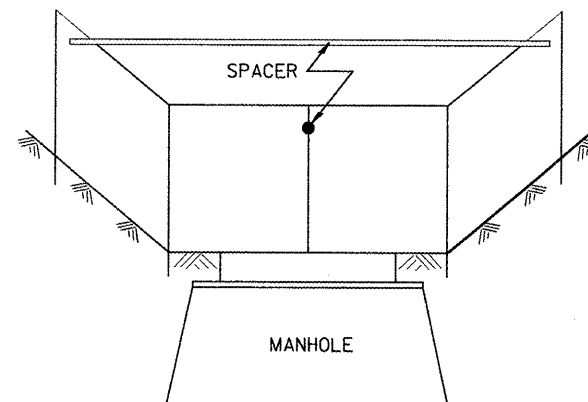
DATE	REVISIONS	BY
1-1-97	RENUM. A-12.05, NEW REVISION BOX	T.P.
3-11-03	ELIMINATED SILT FENCE DITCH CHECK	M.M.A.



TOP VIEW



FRONT VIEW



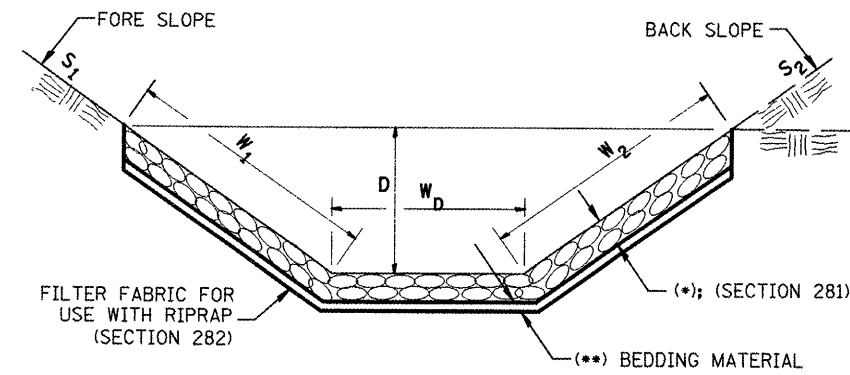
Front View
B-B

EROSION CONTROL
AT
OPEN GRATE MAN HOLE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	148
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

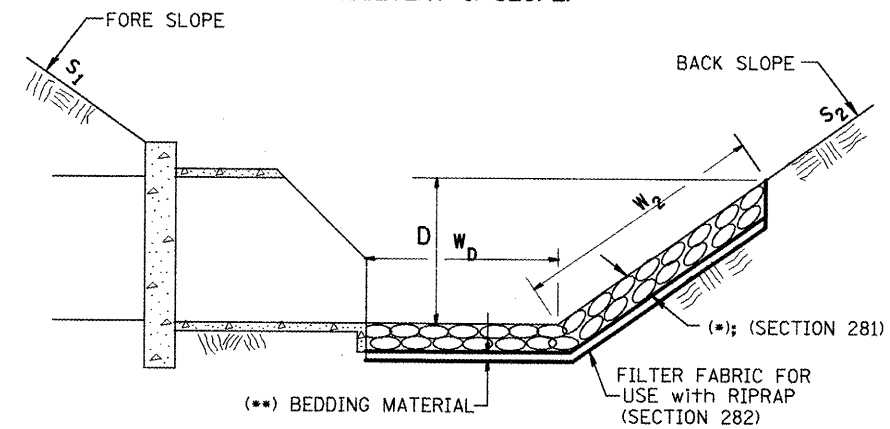
**CASE 1
(DITCH)**



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

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

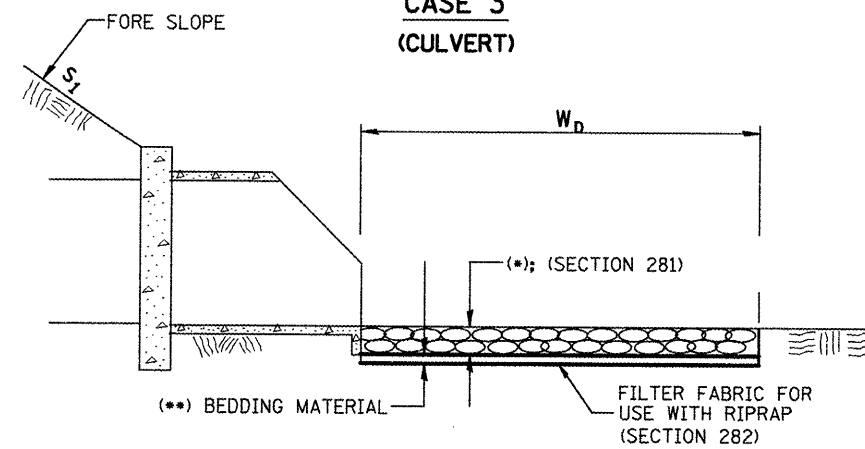
**CASE 2
(CULVERT & SLOPE)**



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

(1) WIDTH = $W_2 + W_D$

**CASE 3
(CULVERT)**



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

(1) WIDTH = W_D

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL SHEET

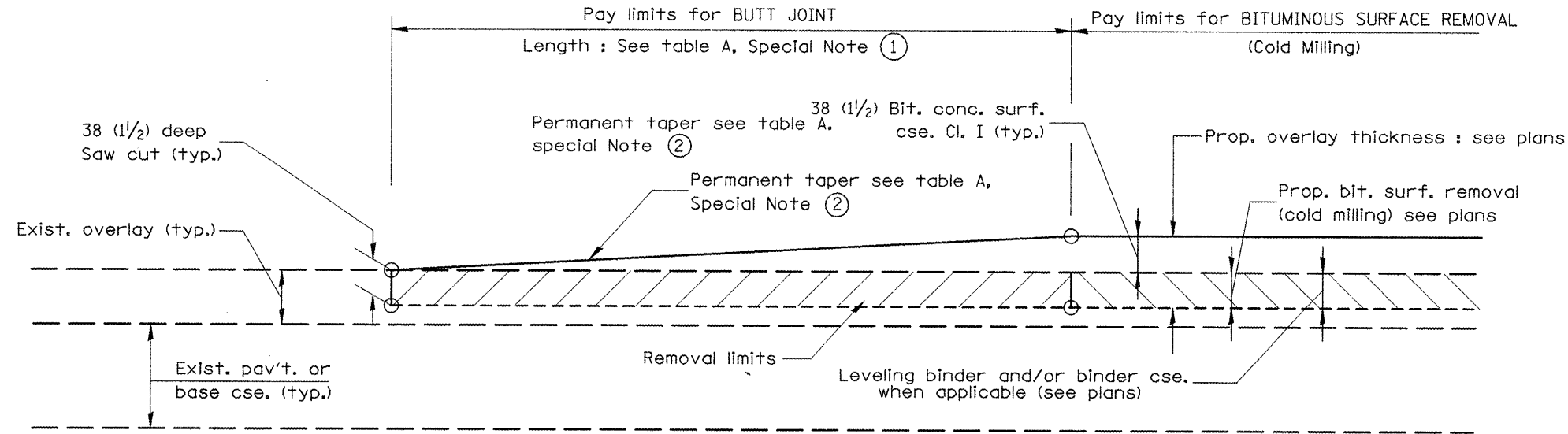
**RIPRAP DITCH FOR
EROSION PROTECTION**

CADD DETAIL 281001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	149
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



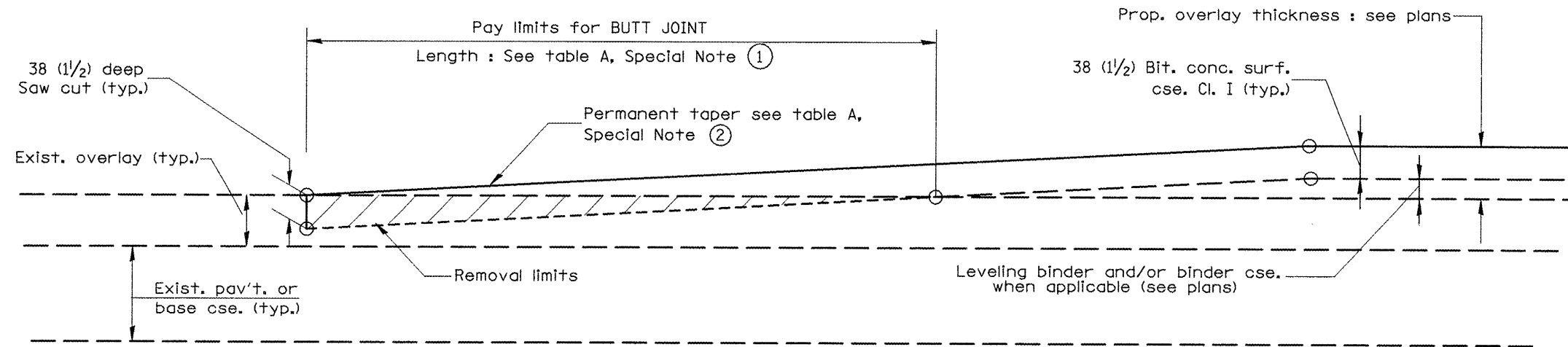
CASE 1 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

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

GENERAL NOTES

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



CASE 2 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

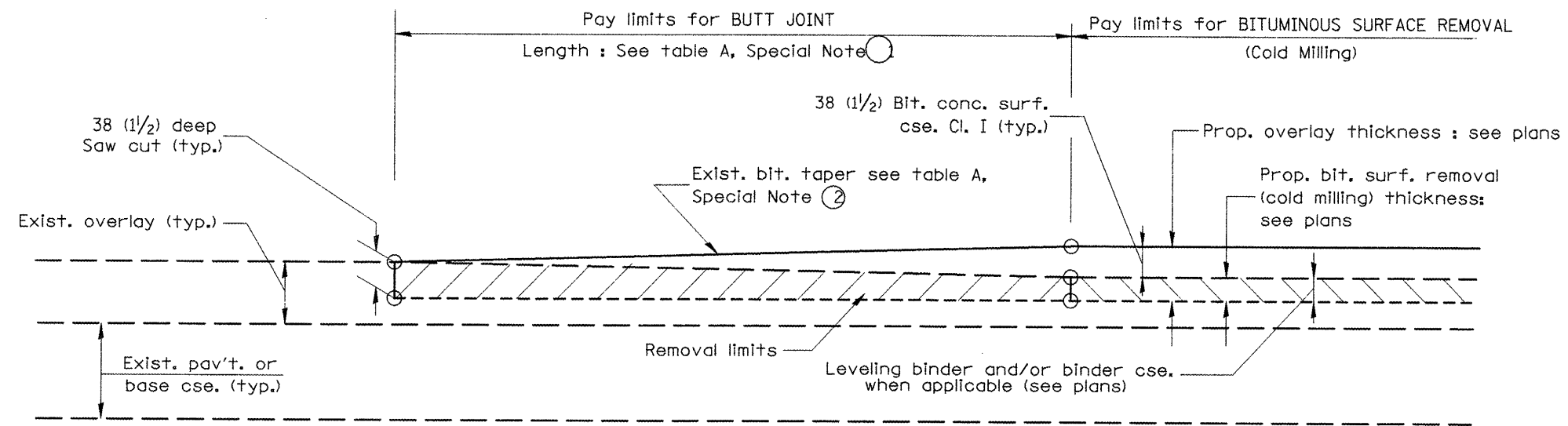
DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

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

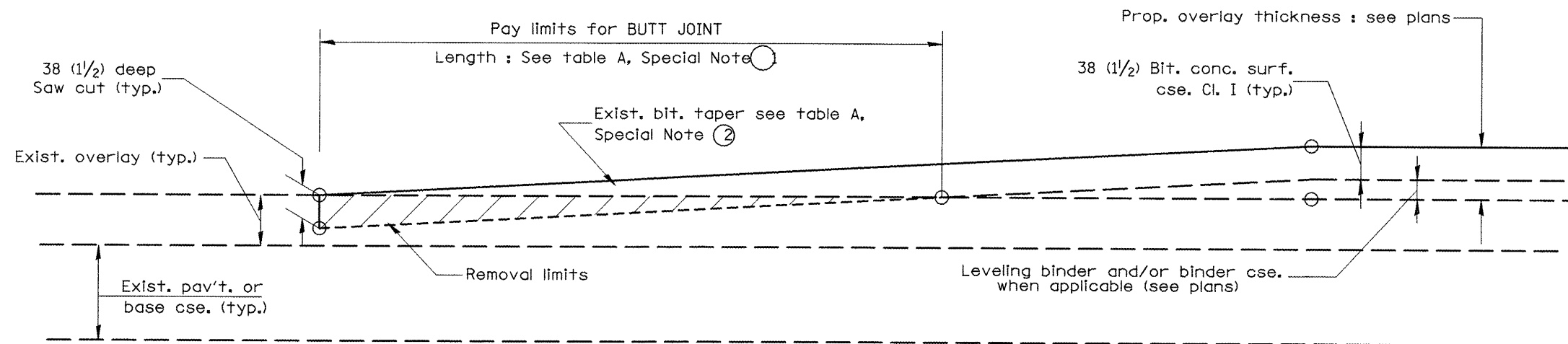
406101-D4 (1)

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

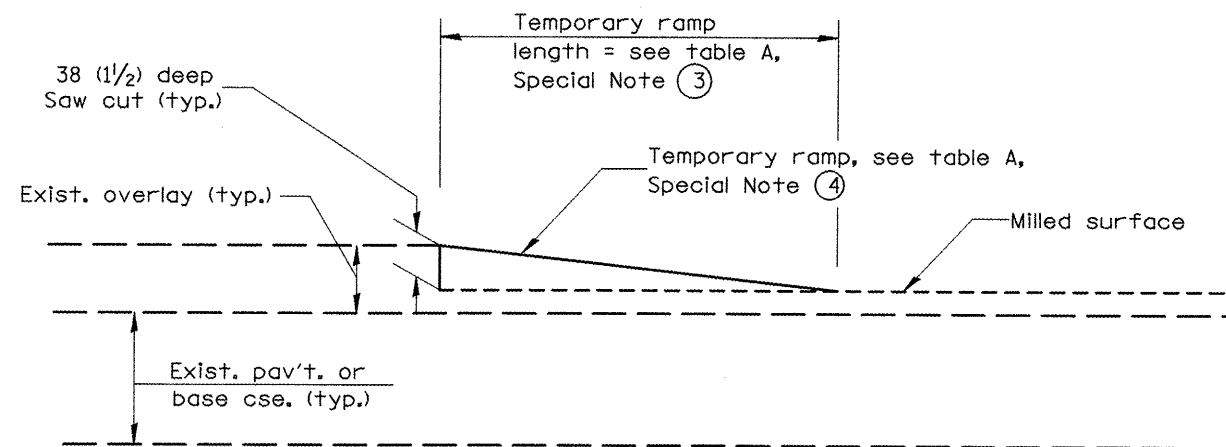
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2+ RS-5	FULTON	282	150
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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



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



DETAIL TEMPORARY RAMP

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

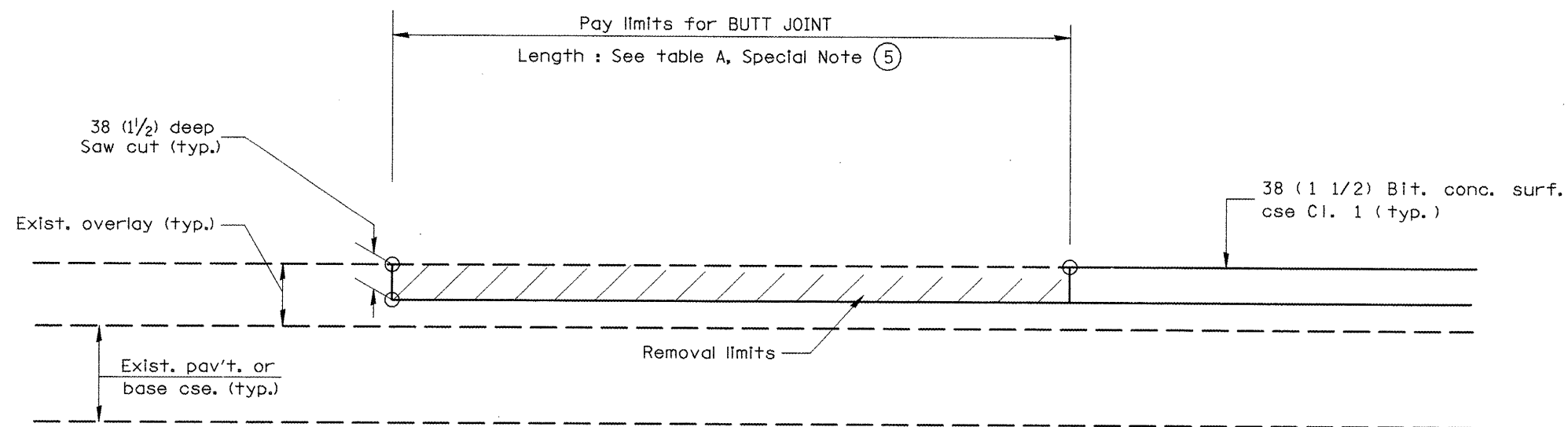
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
CHECKED BY

406101-D4 (2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	151
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

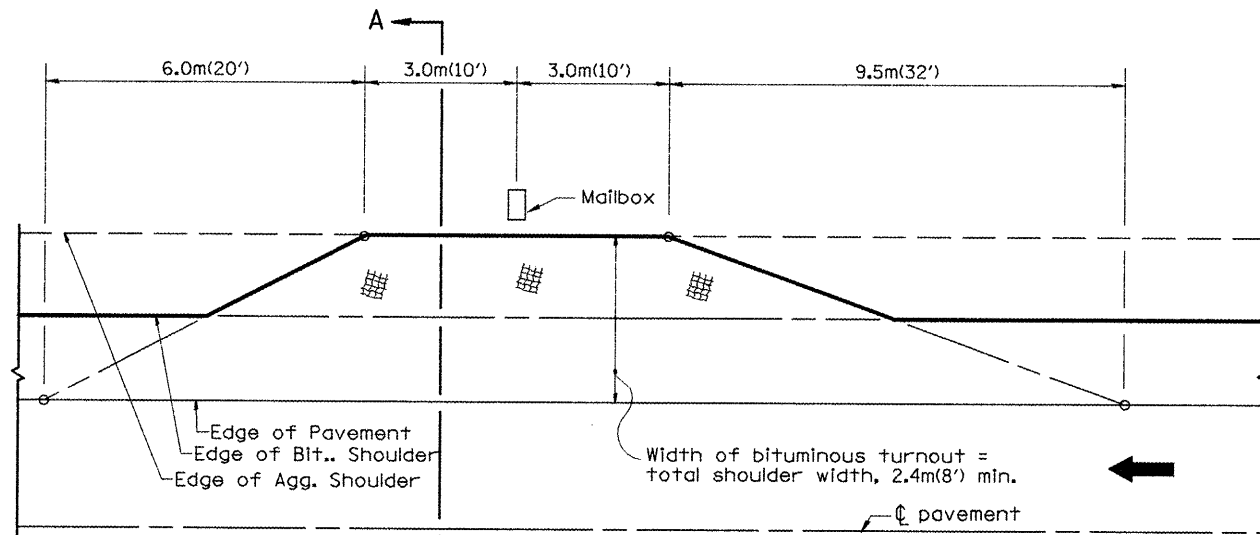
All dimensions are in millimeters
(Inches) unless otherwise noted.

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

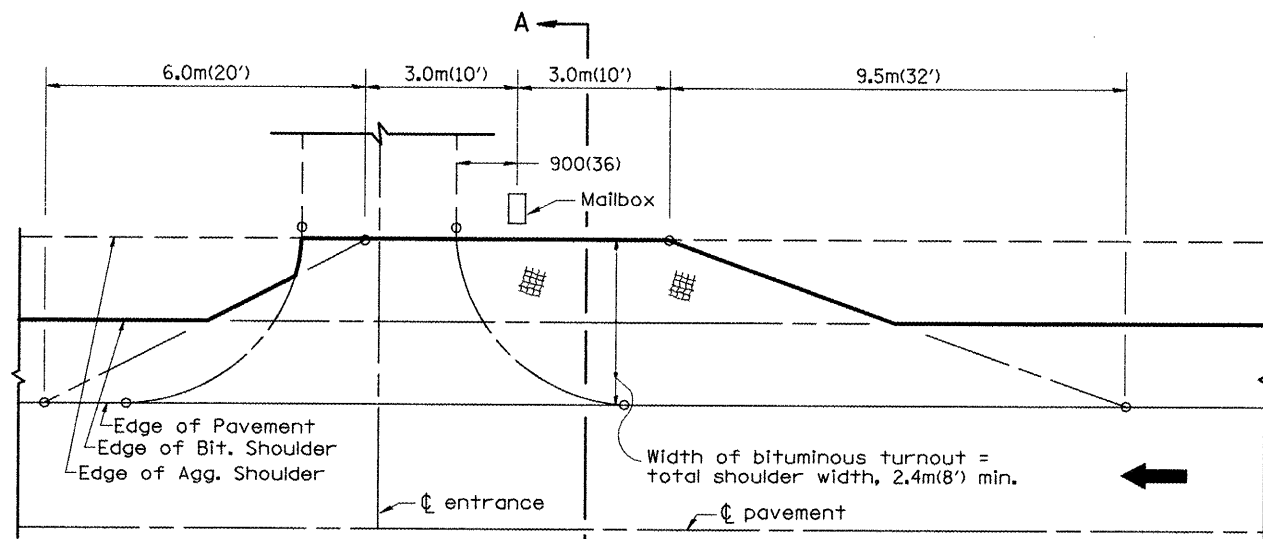
406101-D4 (3)

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

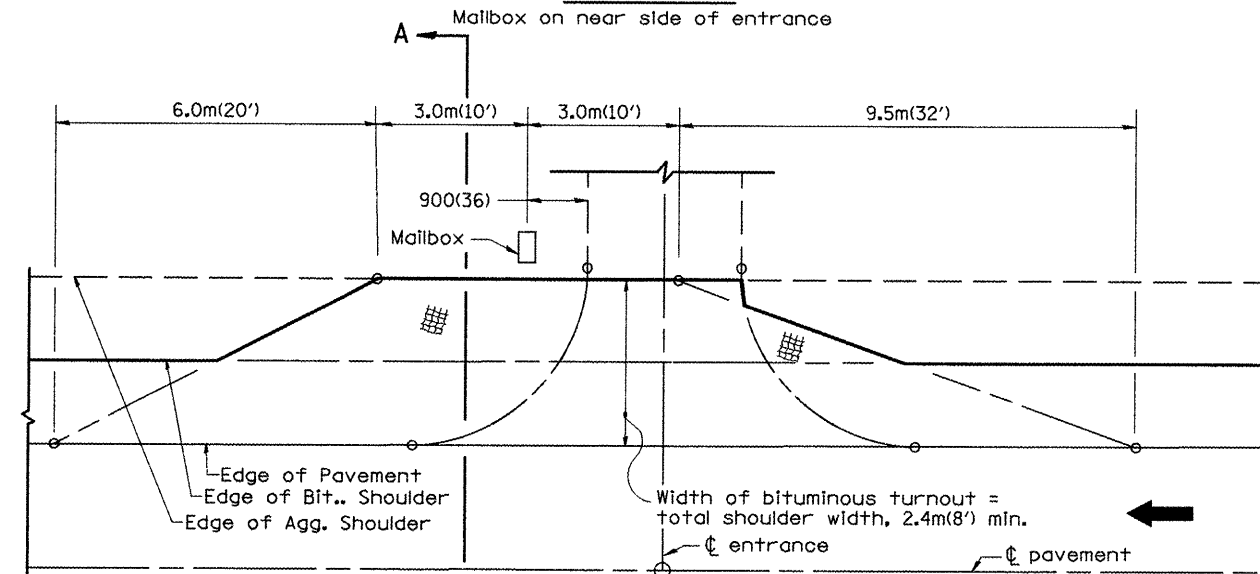
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	152
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



METHOD "T"
Typical Application

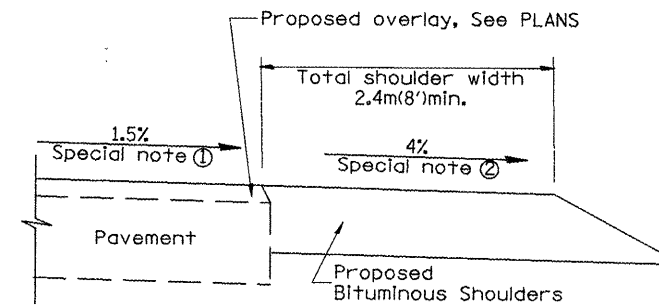


METHOD "N"

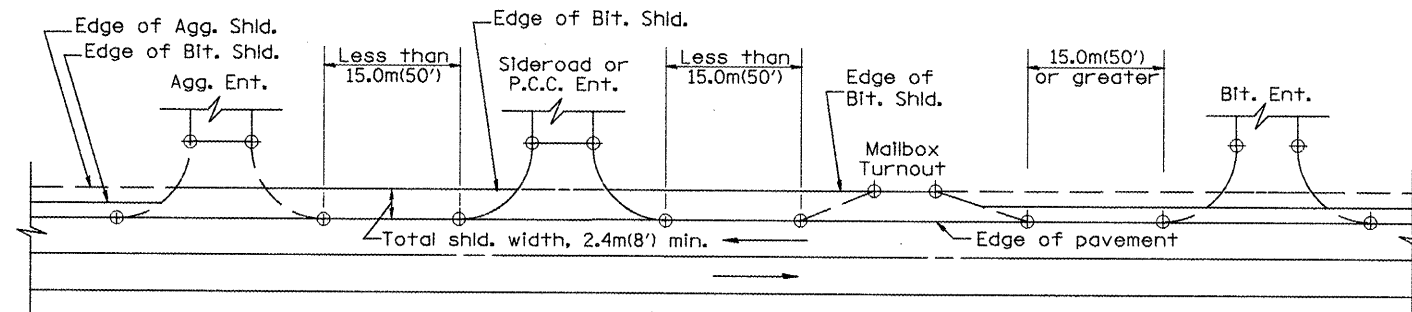


METHOD "F"

Mailbox on far side of entrance



SECTION A-A



DETAIL A

SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS

GENERAL NOTES

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 2.4m (8') minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 15.0m (50'). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 150(6) to 300(12) and the post a minimum of 600(24) from the edge of the turnout surfacing.

SPECIAL NOTES

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 1.8m (6') and wider and 12% for shoulders 1.2m (4') and less. Where 300(12) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

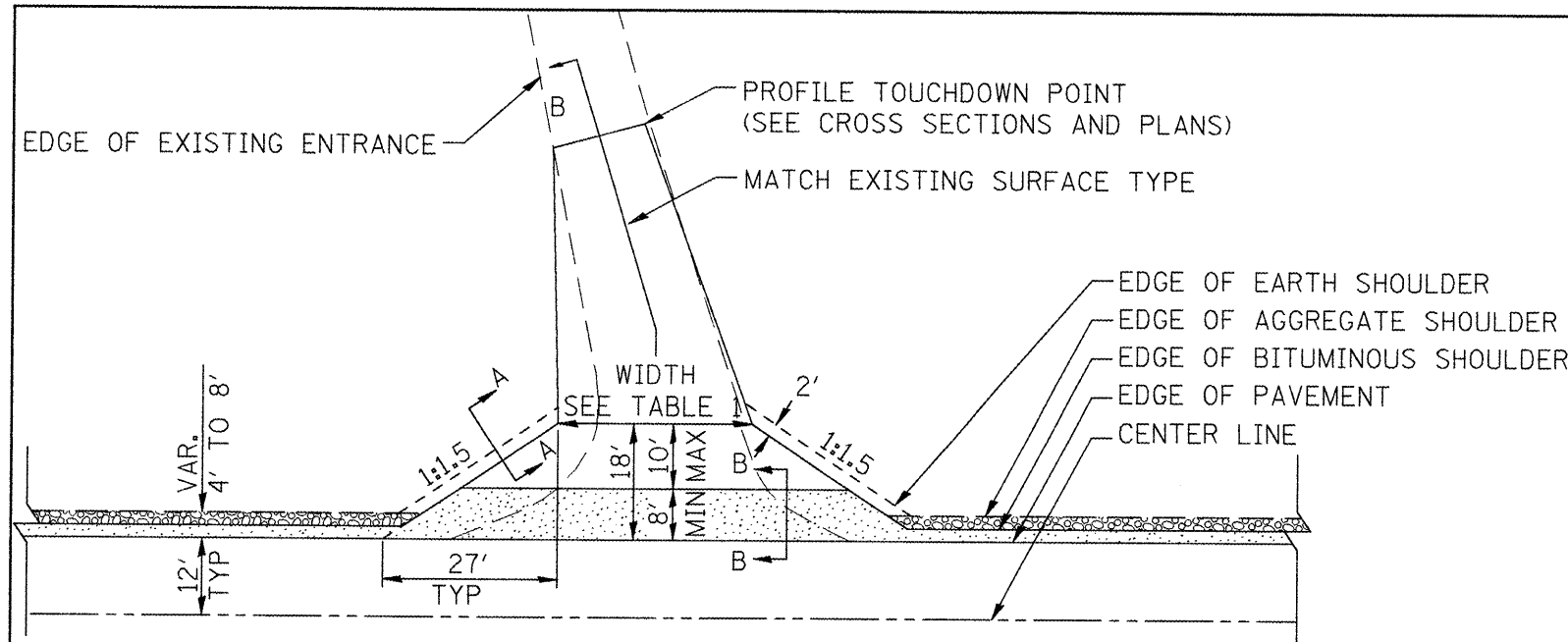
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

MAILBOX TURNOUTS FOR
"3R" PROJECTS

CADD STD NO. 406201-D4 DRAWN BY: CADD
SCALE: NOT DRAWN TO SCALE CHECKED BY: T. PICKERING

DATE	REVISIONS	BY
1-1-97	RENUM. C-90.01. NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	153
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

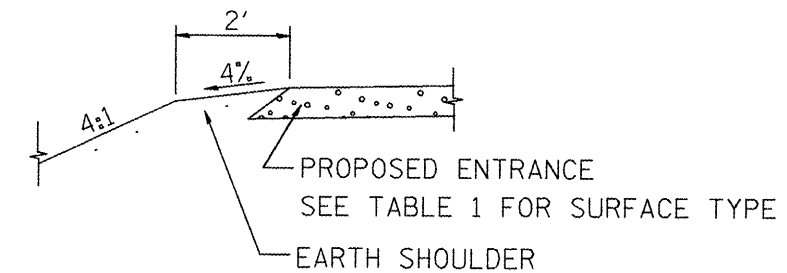


BITUMINOUS SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

COMMERCIAL / FARM-RELATED ENTRANCE

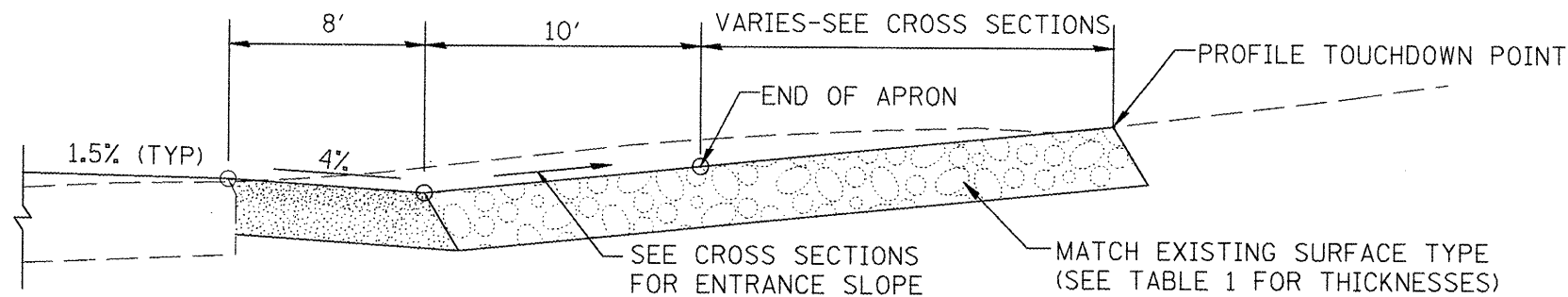
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL	
	NON-COMMERCIAL	NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	1-WAY OPERATION	2-WAY OPERATION	1-WAY OPERATION	2-WAY OPERATION
WIDTH (W)	3.6m(12') MIN, 7.2m(24') MAX.	6.1 (20')max, 9.0m(30')max	4.3m(14') MIN, 7.2m(24') MAX.	7.2m(24') MIN, 10.7m(35') MAX.		
FLARE	1:1.5					
MAX. GRADE (G)	12%	12%	10%			
SURFACE TYPE						
INCIDENTAL BITUMINOUS SURFACING	6"	—			8"	
AGGREGATE SURFACE COURSE	6"	8"			8"	
PCC DRIVEWAY PAVEMENT	6"	—			7"	



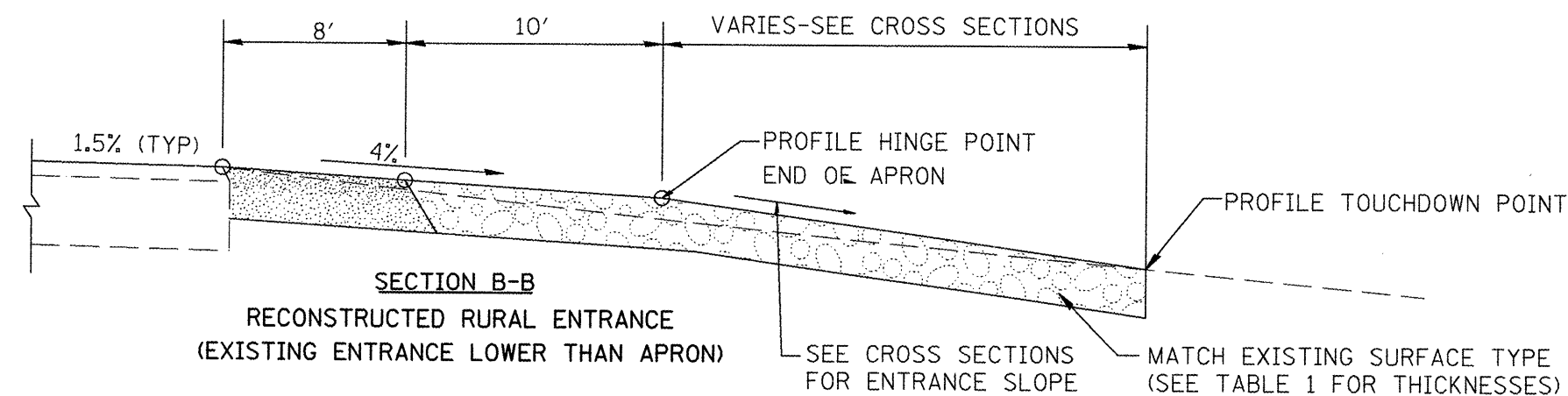
SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)

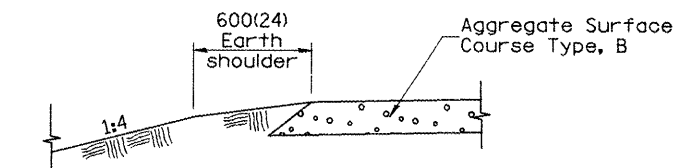


SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)

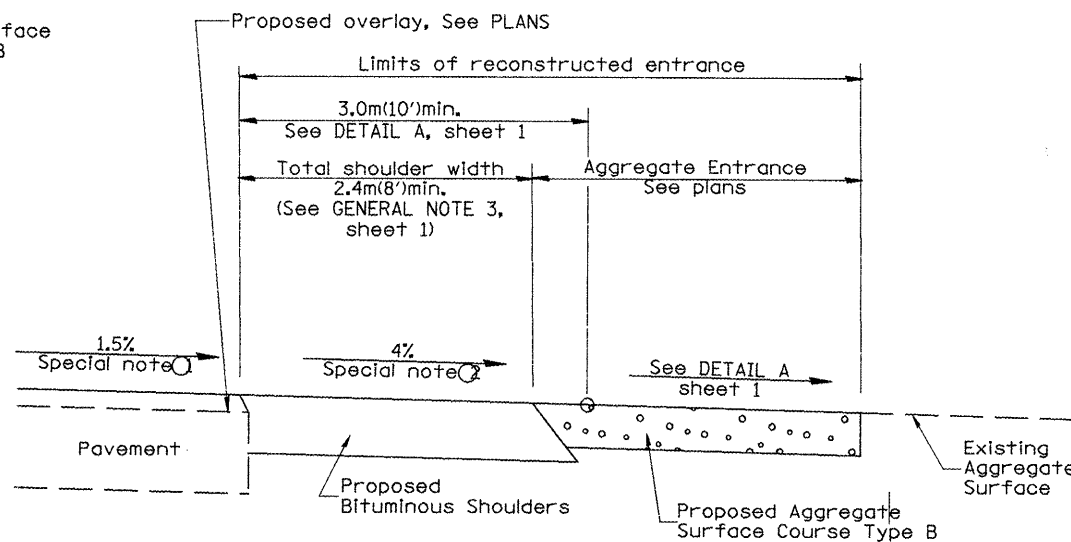
ILLINOIS DEPARTMENT OF TRANSPORTATION		
DISTRICT CADD STANDARD		
RURAL ENTRANCES FOR "3R" PROJECTS		
SHEET 1 OF 1		
CADD STD NO. 406301-D4		
SCALE: NOT DRAWN TO SCALE		
DATE **DATE**		
DRAWN BY CADD		
CHECKED BY T. PICKERING		

DATE	REVISIONS	BY
1-1-97	RENUM. C-103.06, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
1-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR
9-15-05	RADIUS FOR FLARE	M.M.A.

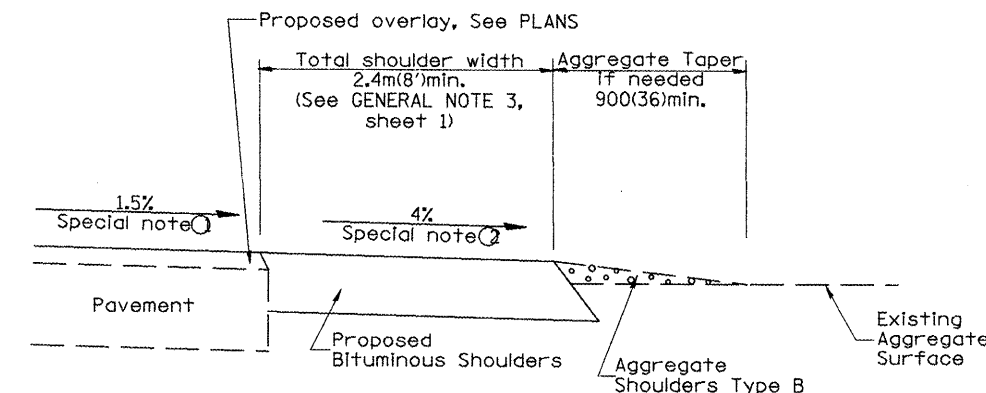
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	154
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



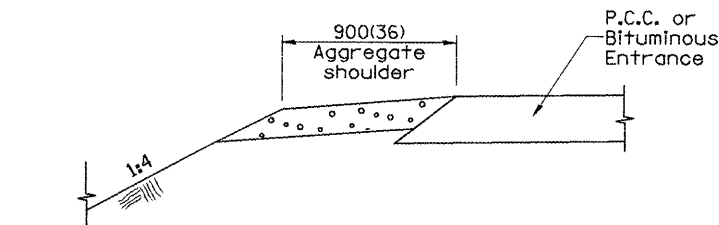
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



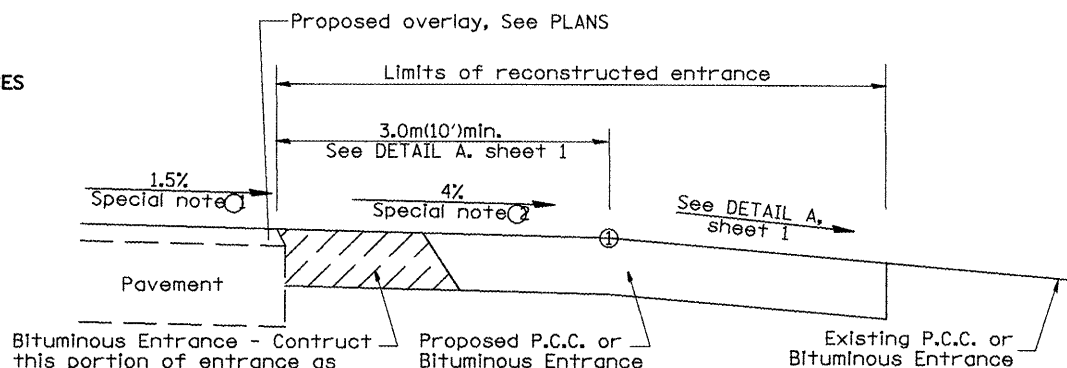
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



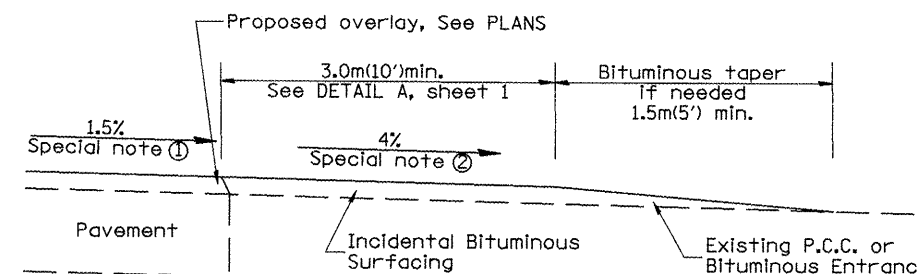
SECTION B-B
EXISTING AGGREGATE ENTRANCE



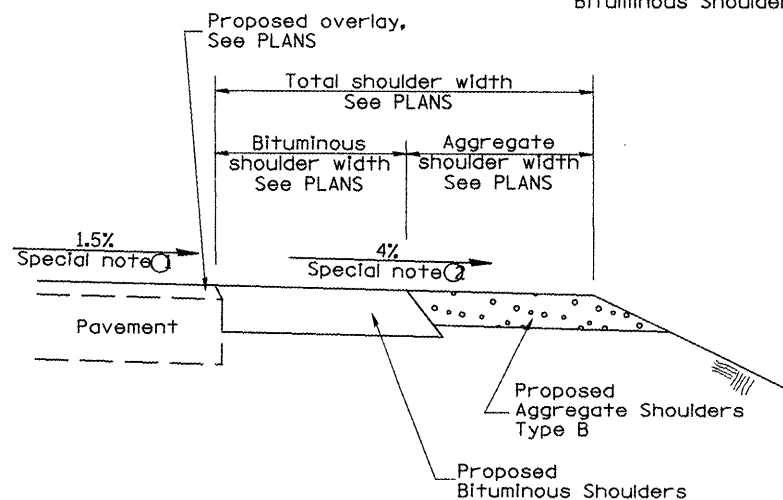
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR BITUMINOUS ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR BITUMINOUS ENTRANCE



SECTION D-D
EXISTING P.C.C. OR BITUMINOUS ENTRANCE



SECTION E-E
MAINLINE SHOULDER TREATMENT

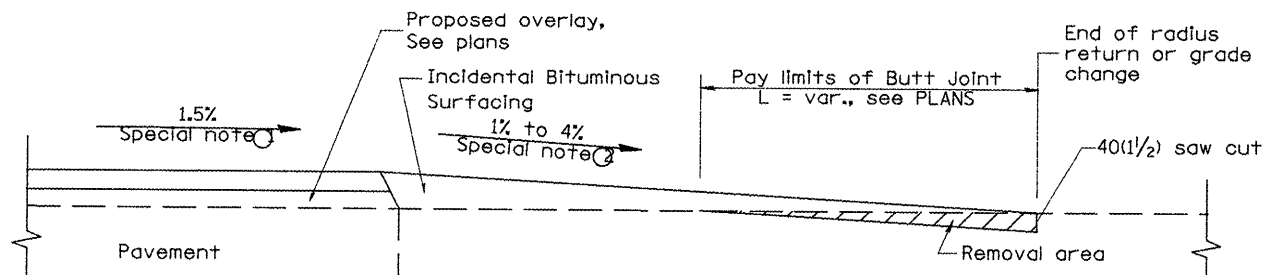
SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 3.0m(10') minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 1.8(6) and wider and 12% for shoulders 1.2m(4') and less. Where 300(12) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

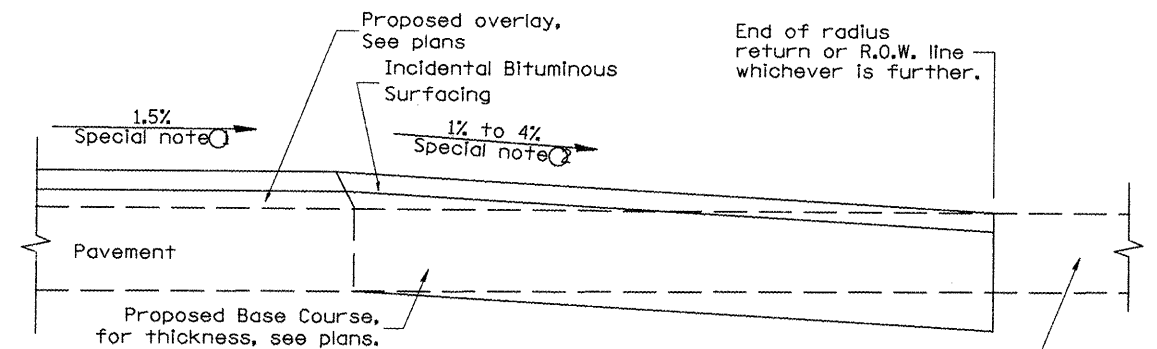
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H). All dimensions are in millimeters (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
RURAL ENTRANCES FOR "3R" PROJECTS	
SHEET 2 OF 2	
CADD STD NO. 406301-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY: T. PICKERING

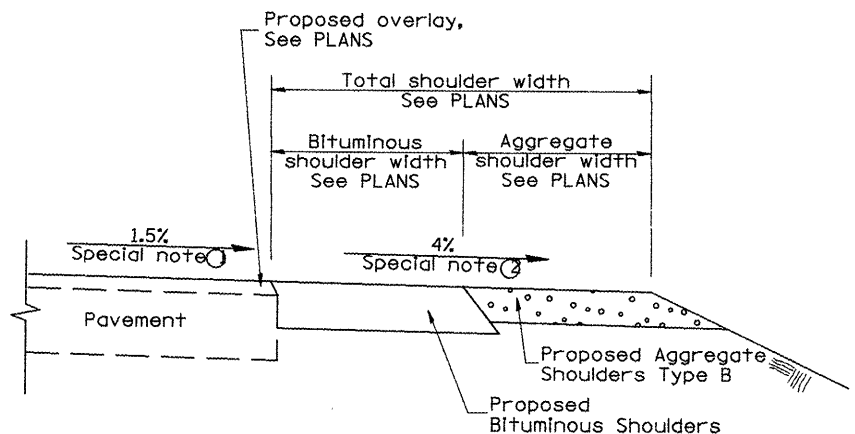
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



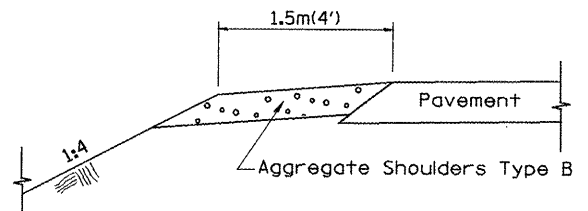
SECTION A-A
EXISTING PCC OR BITUMINOUS SIDEROAD



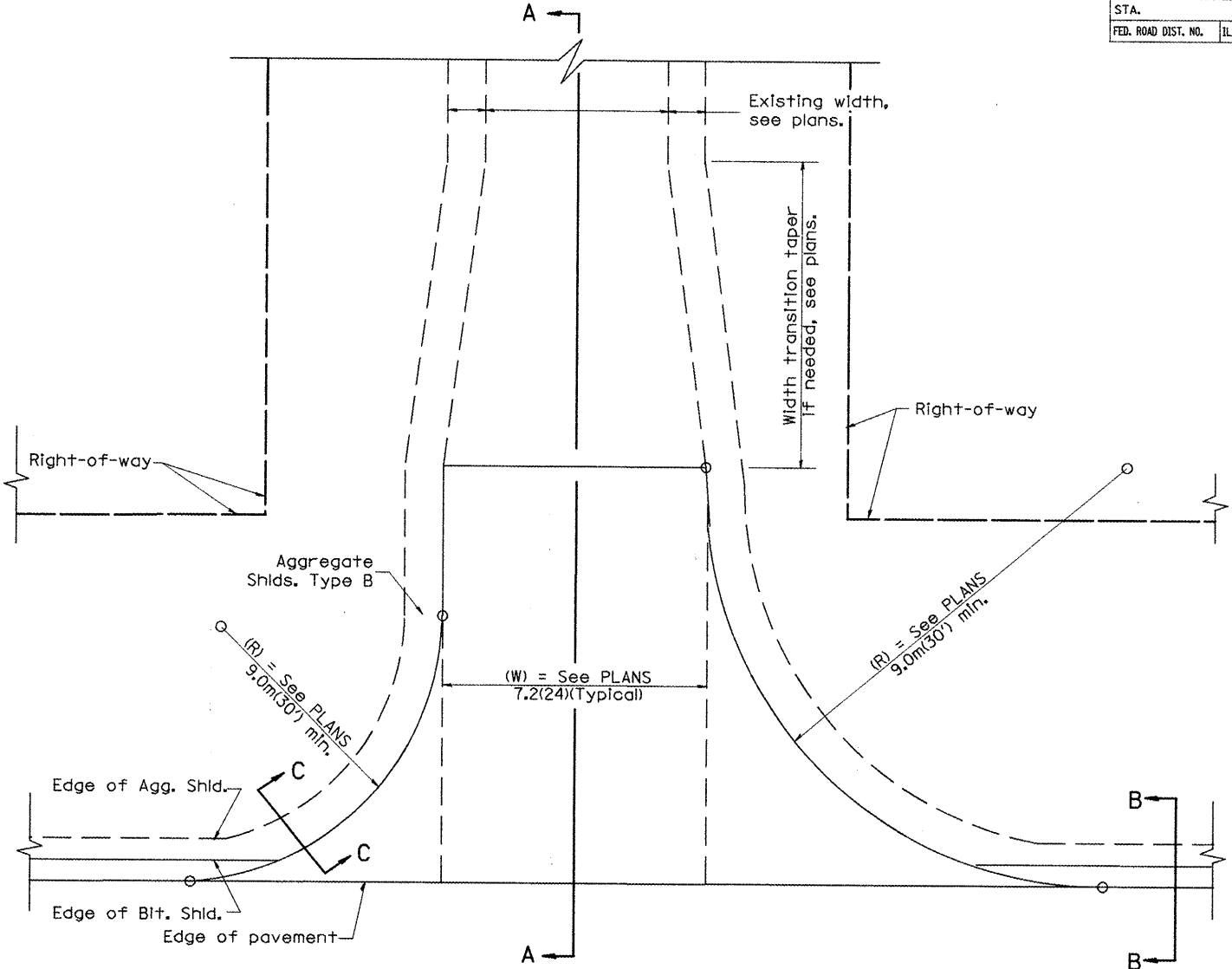
SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD



SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT



PLAN

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on super-elevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 15.0m(50') to 30.0m(100'), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline super-elevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

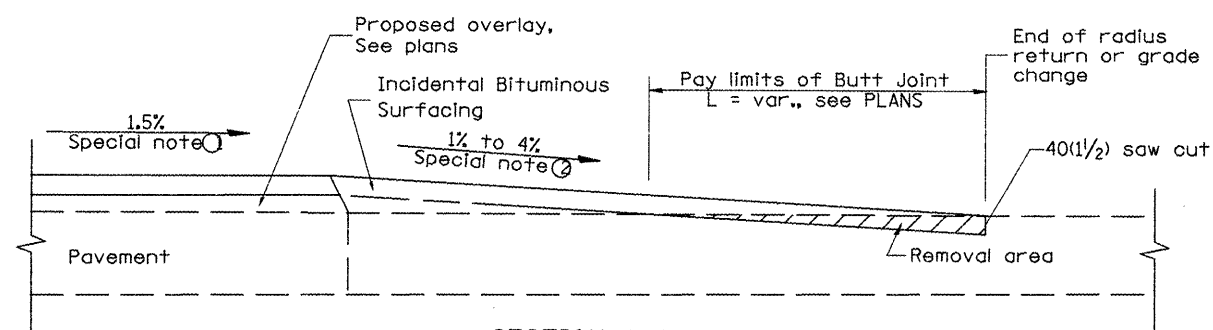
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
RURAL SIDEROADS FOR "3R" PROJECTS	
CADD STD NO. 406401-D4	
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY: T. PICKERING

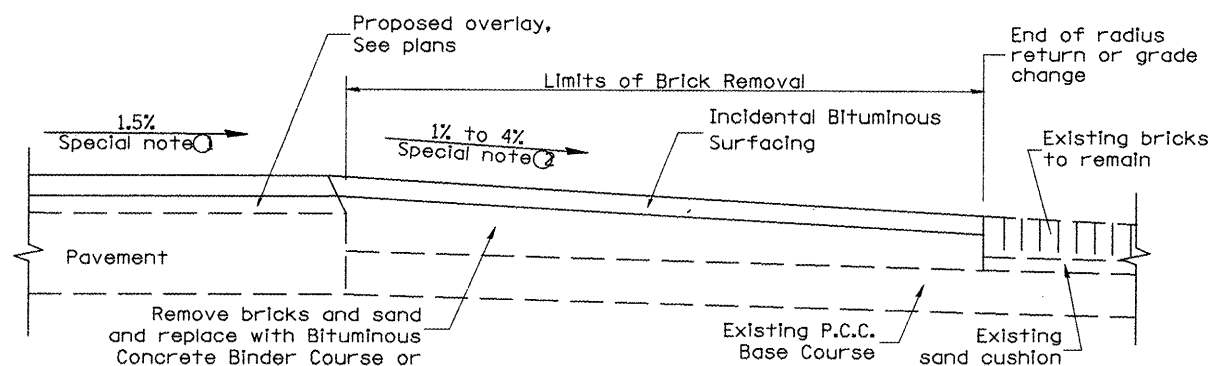
DATE	REVISIONS	BY
1-1-97	RENUM. C-105.02, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

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

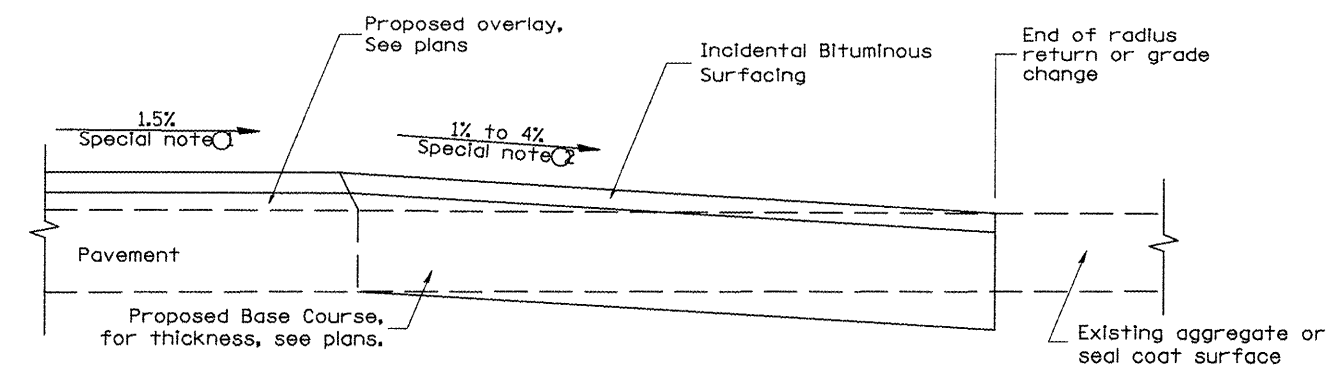
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	156
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



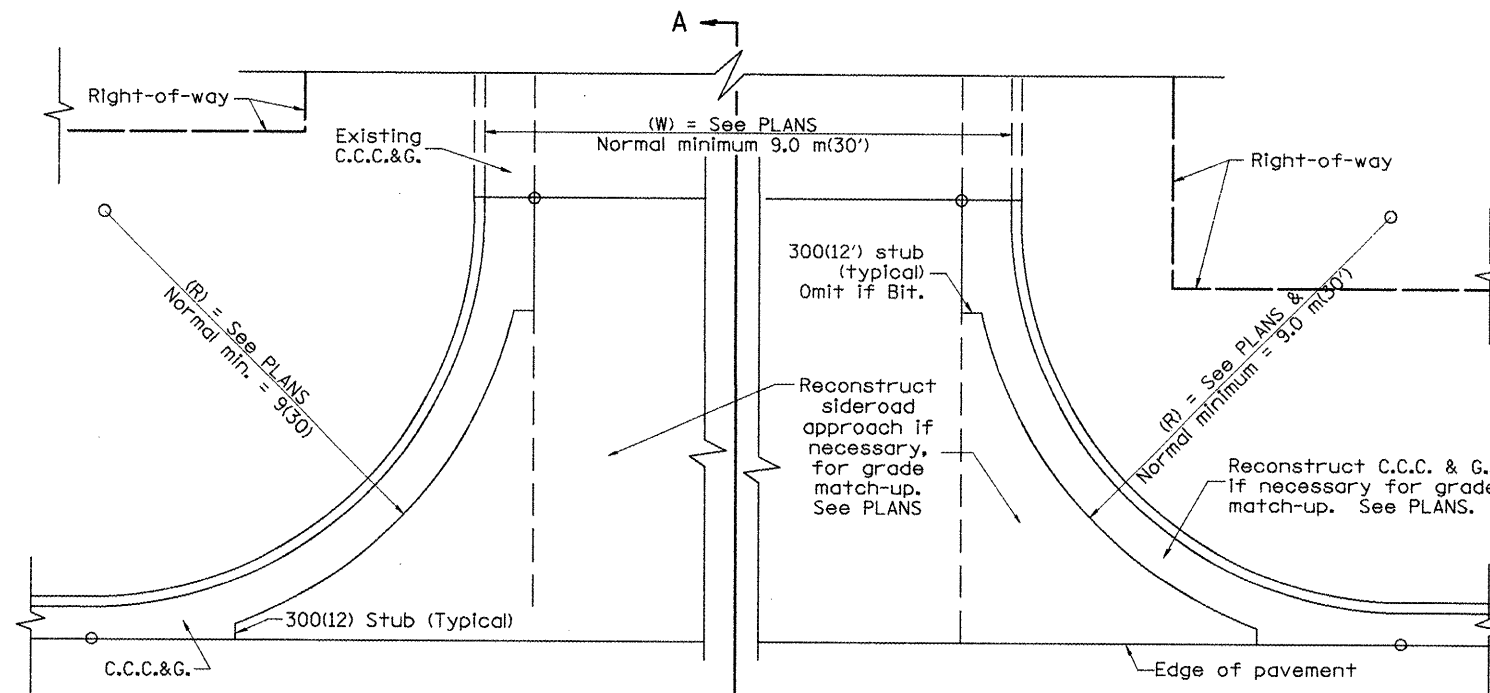
SECTION A-A
EXISTING PCC OR BITUMINOUS SIDEROAD



SECTION A-A
EXISTING BRICK SIDEROAD



SECTION A-A
EXISTING AGGREGATE OR SEALCOAT SIDEROAD



PLAN

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on super-elevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 15.0 m(50') to 30.0 m(100'), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline super-elevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

DATE	REVISIONS	BY
1-1-97	RENUM. C-105.01. NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

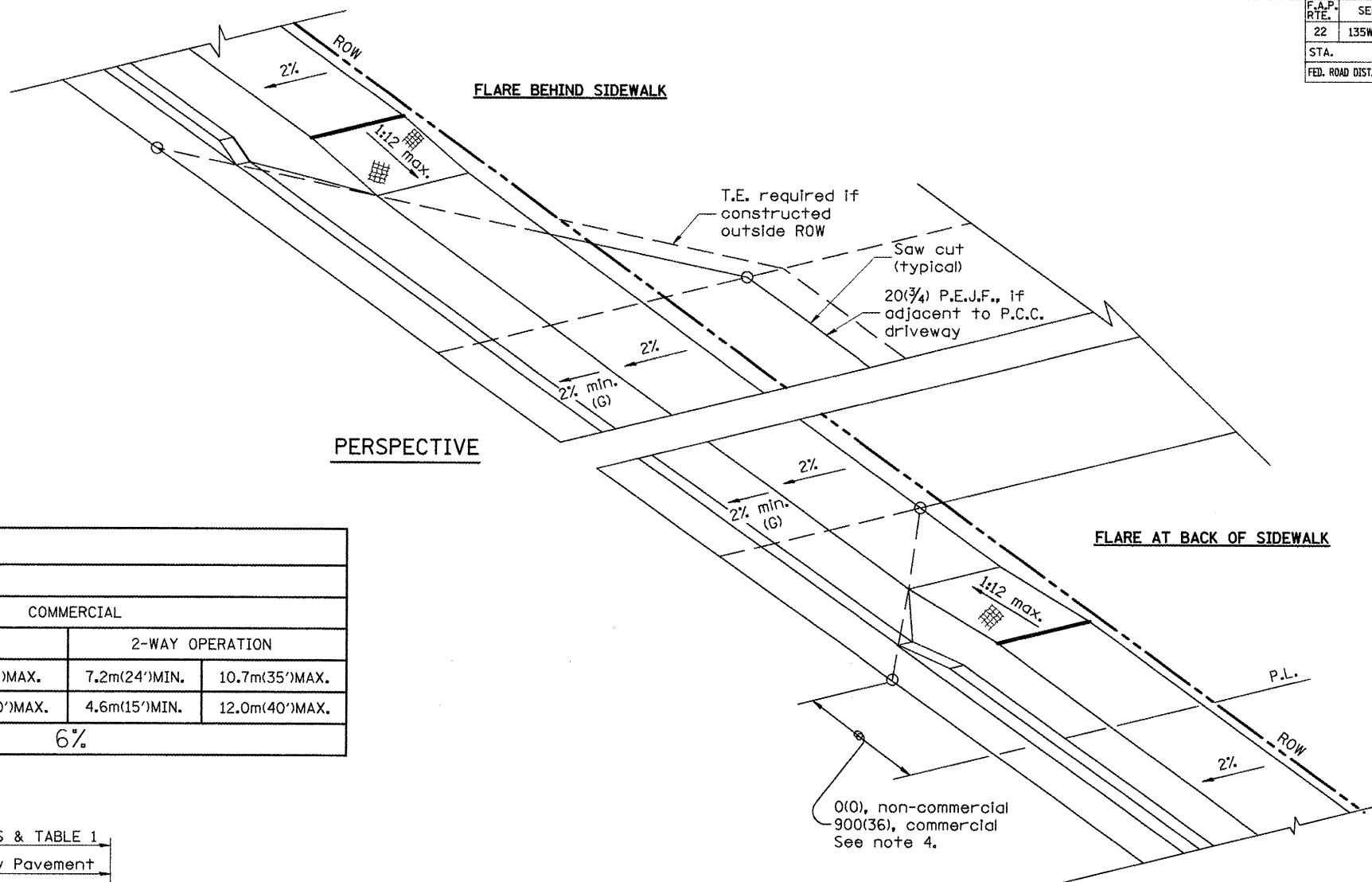
URBAN SIDEROADS FOR
'3R' PROJECTS

CADD STD NO. 406501-D4 DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE CHECKED BY: T. PICKERING

406501-D4

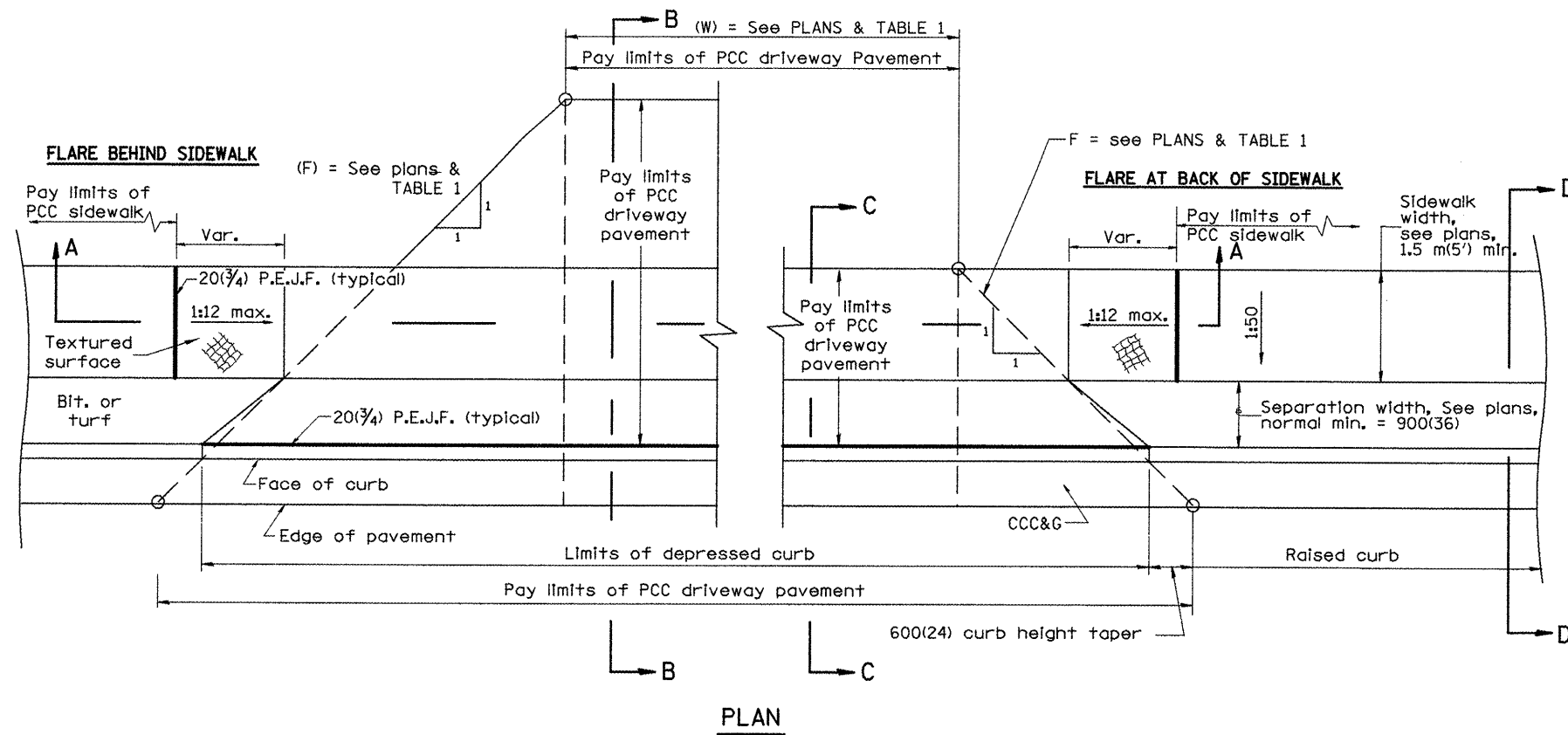
\$\$\$DATE\$\$\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PERSPECTIVE

ELEMENT	NON-COMMERCIAL		COMMERCIAL			
			1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	3.6m(12')MIN.	7.2m(24')MAX.	4.3m(14')MIN.	7.2m(24')MAX.	7.2m(24')MIN.	10.7m(35')MAX.
RADIUS EQUIVALENT 1:1 FLARE (F)	1.5m(5')MIN.	7.6m(25')MAX.	4.6m(15')MIN.	12.0m(40')MAX.	4.6m(15')MIN.	12.0m(40')MAX.
MAX. GRADE (G)	8%		6%			



PLAN

GENERAL NOTES

1. Refer to State Standard 424001 for texturing and other disabled accessibility design elements.
2. The sidewalk area located within the pay limits of P.C.C. Driveway Pavement will be of the same thickness and construction as the P.C.C. Driveway Pavement.
3. Combination Concrete Curb & Gutter shall be depressed in accordance with Standard 606001.
4. Exceptions to the radius flare/property line relationship are as shown in the plans for common entrances, with jointly executed access permits.

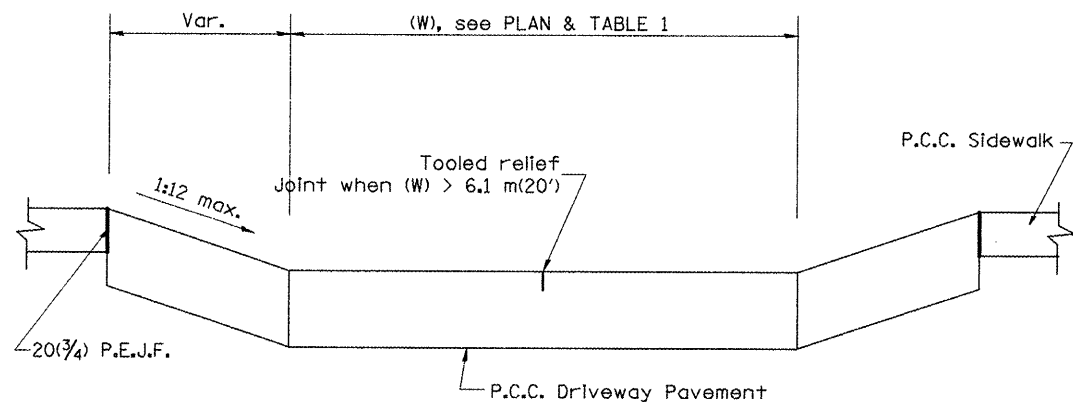
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

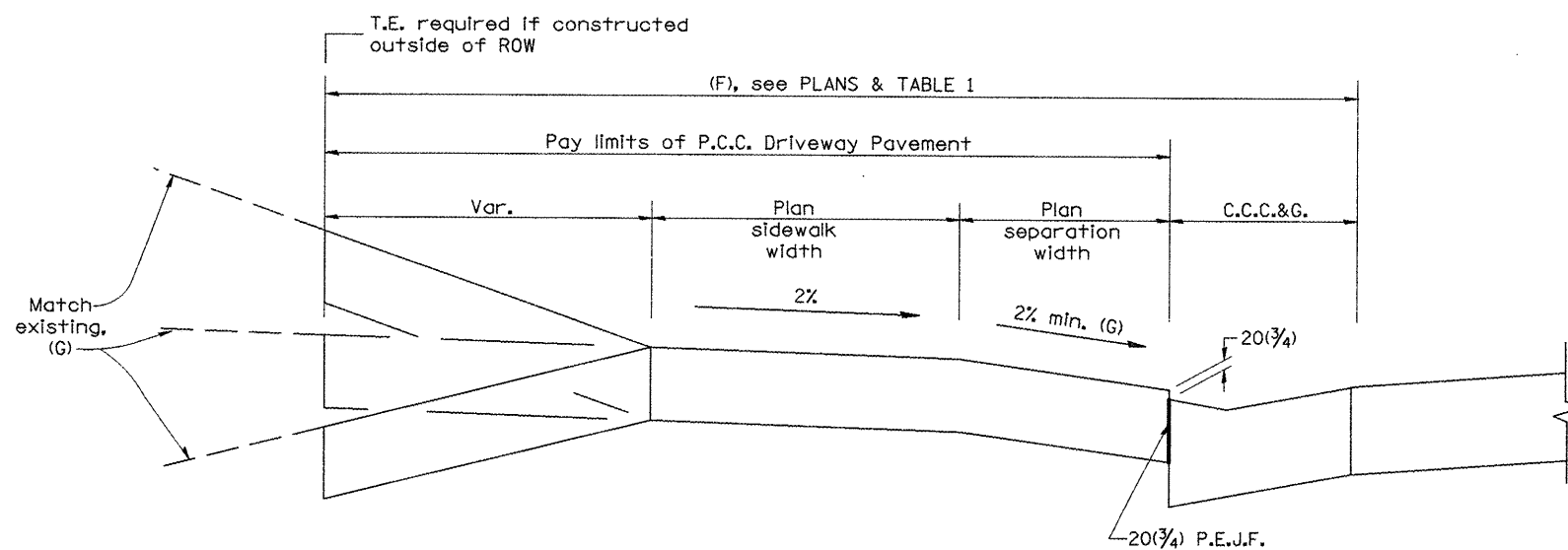
DATE	REVISIONS	BY
1-1-97	RENUM. C-103.01, NEW REVISION BOX	T.P.
1-17-03	REMOVE CURB CONTRACTION JOINT	JATR M.M.A.
9-15-05		

URBAN ENTRANCES ACCESSIBLE TO THE DISABLED FOR SEPARATED SIDEWALKS
CADD STD NO. 423106-D4 SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY

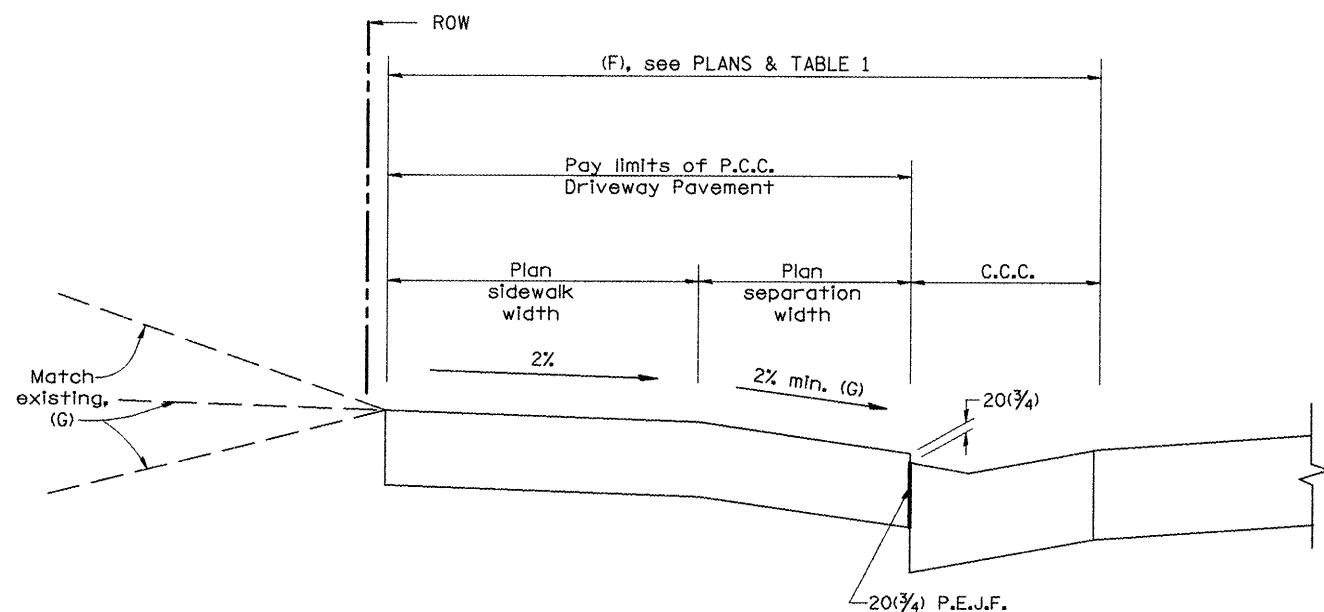
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	158
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



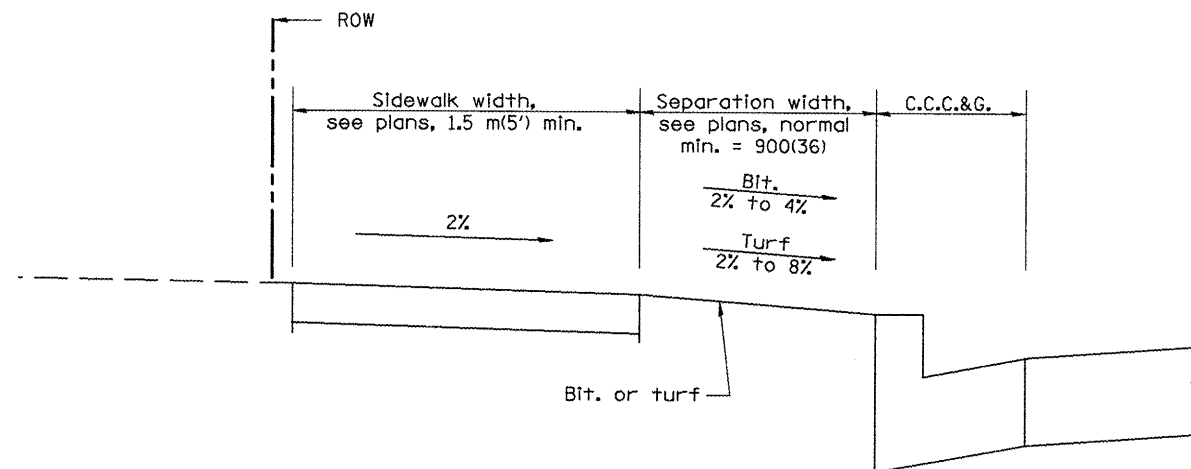
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

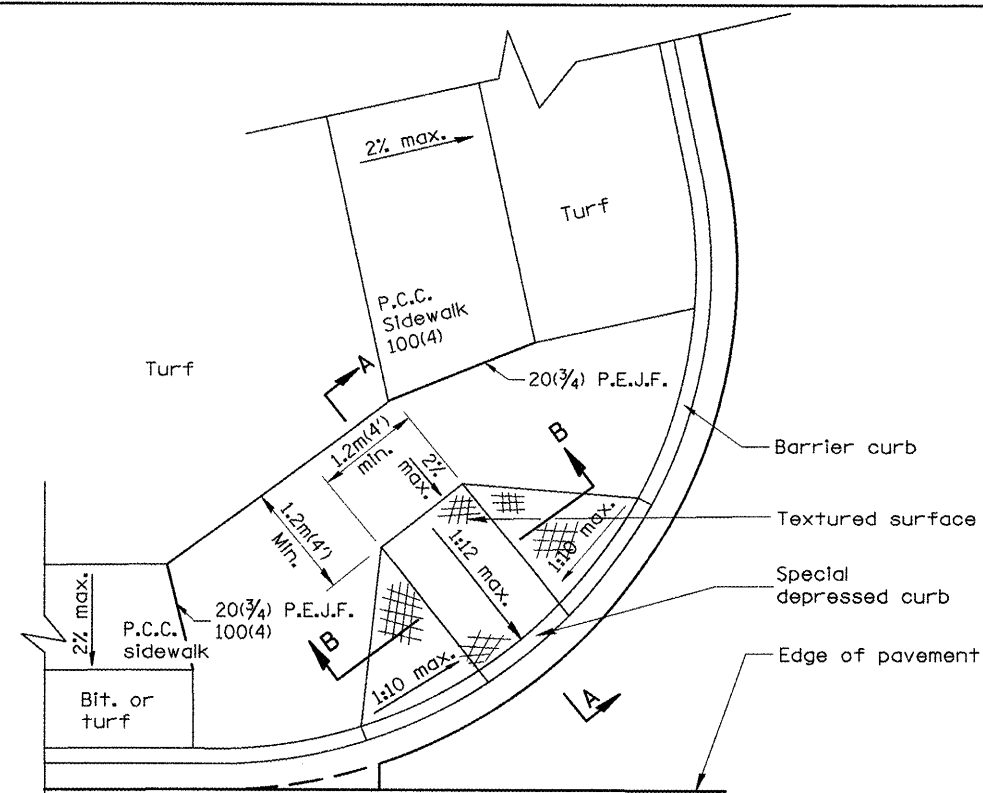
URBAN ENTRANCES
ACCESSIBLE TO THE DISABLED
FOR SEPARATED SIDEWALKS

CADD STD NO. 423106-D4 SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY

423106-D4 (2)

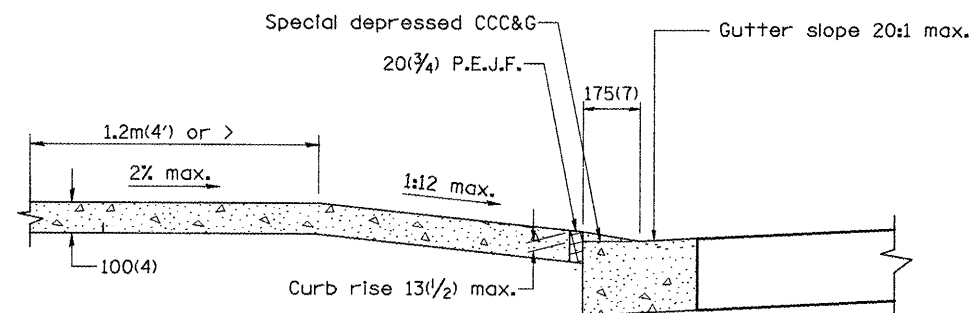
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	159
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

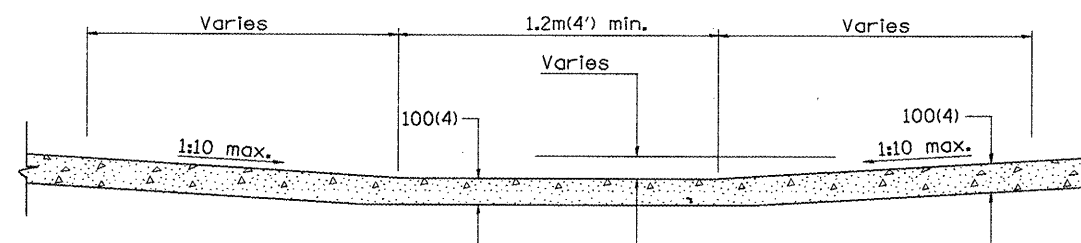


CASE 1

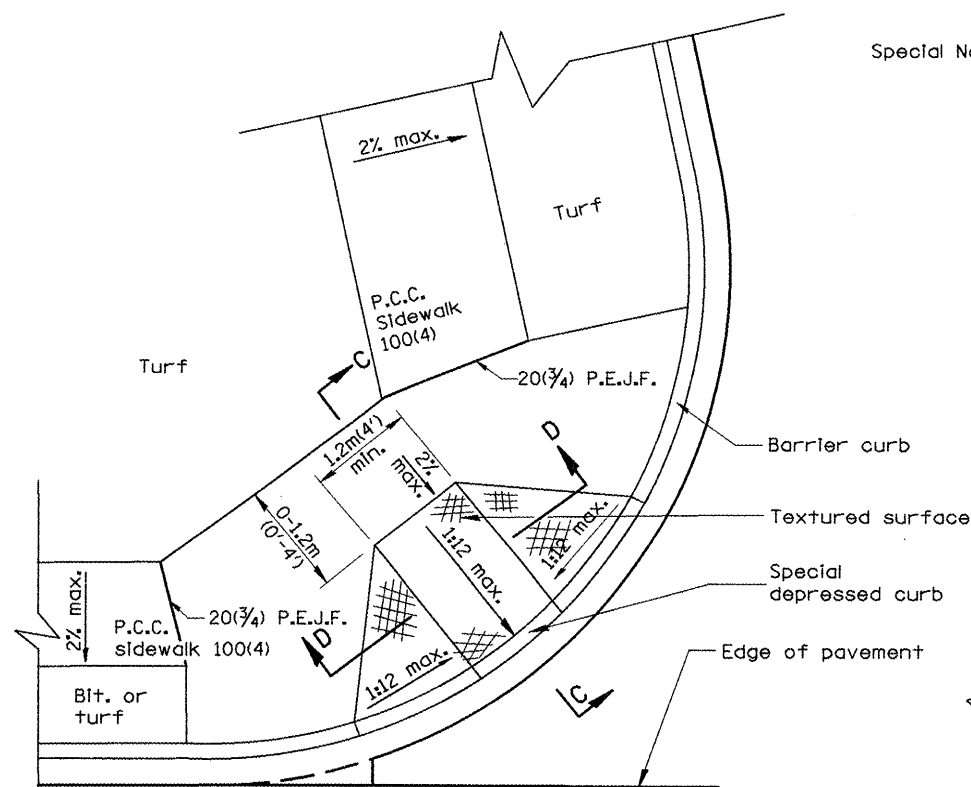
TYPE B RAMP WITH 1.2m(4') OR MORE AT BACK OF RAMP



SEC. A-A

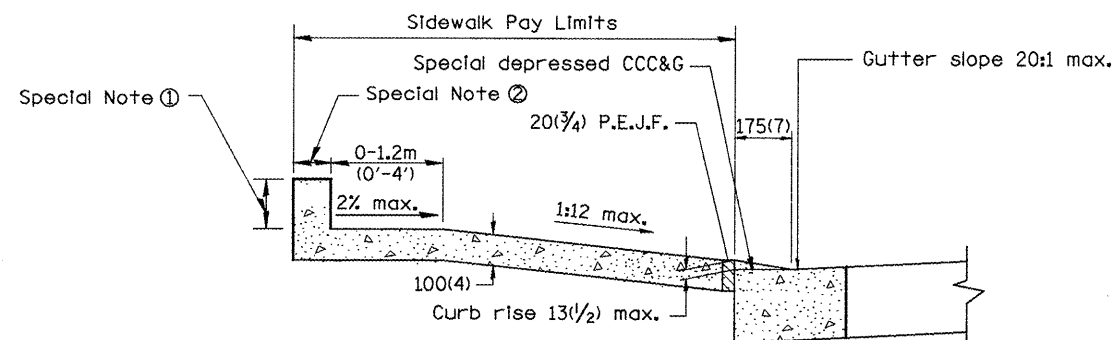


SEC. B-B

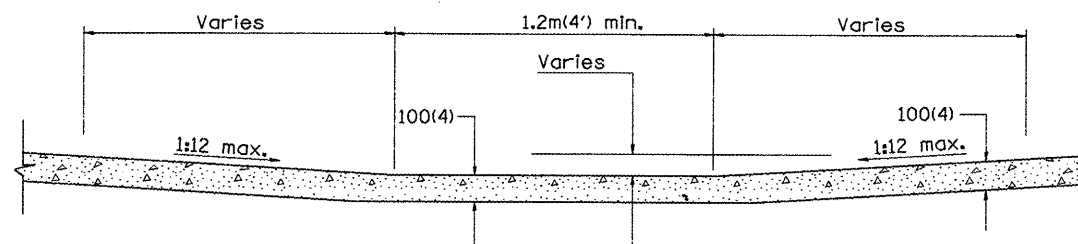


CASE 2

TYPE B RAMP WITH LESS THAN 1.2m(4') AT BACK OF RAMP



SEC. C-C



SEC. D-D

GENERAL NOTES

1. Refer to State Standard 424001 for texturing and other design elements.
2. The controls shown on this standard are applicable to Type B Curb and Combination Concrete Curb & Sidewalk construction.
3. The maximum length of texturing shall be 1.8m(6') unless otherwise shown.

SPECIAL NOTES

- ① Variable height edge treatment as required to match existing conditions.
Maximum height = 225(9)
- ② 100(4) wall to be built outside of plan sidewalk width, if ROW allows.

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

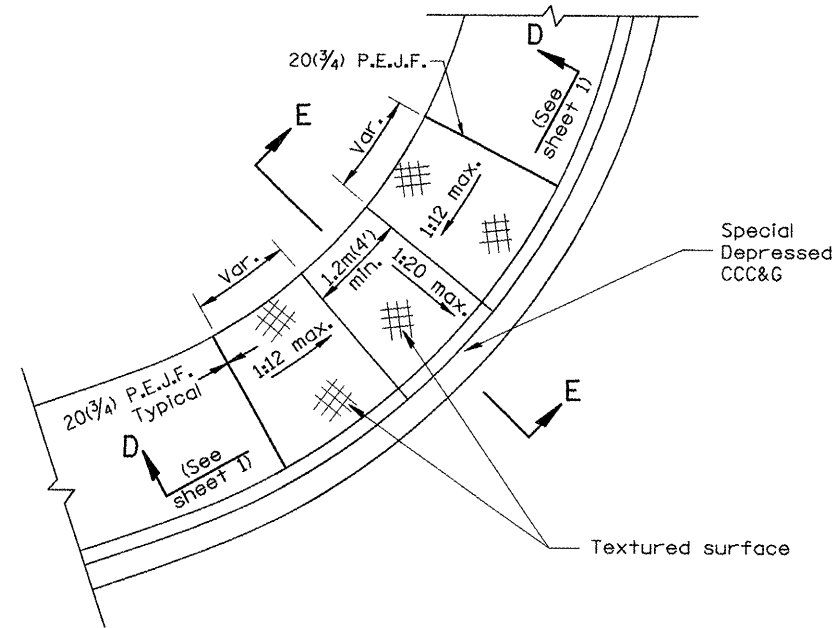
**ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD**

**SIDEWALK RAMPS
ACCESSIBLE TO
THE DISABLED**

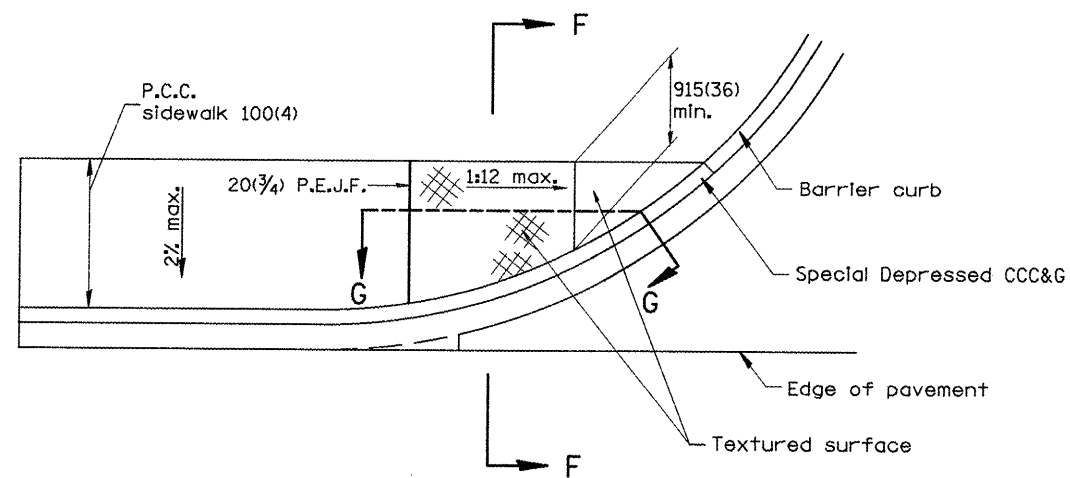
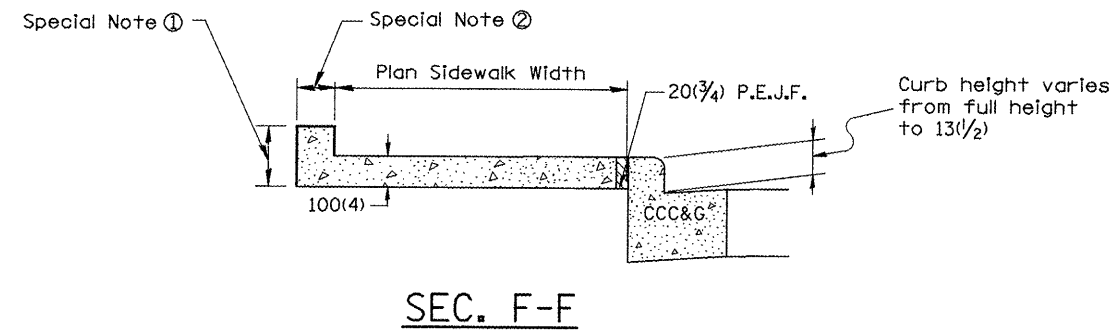
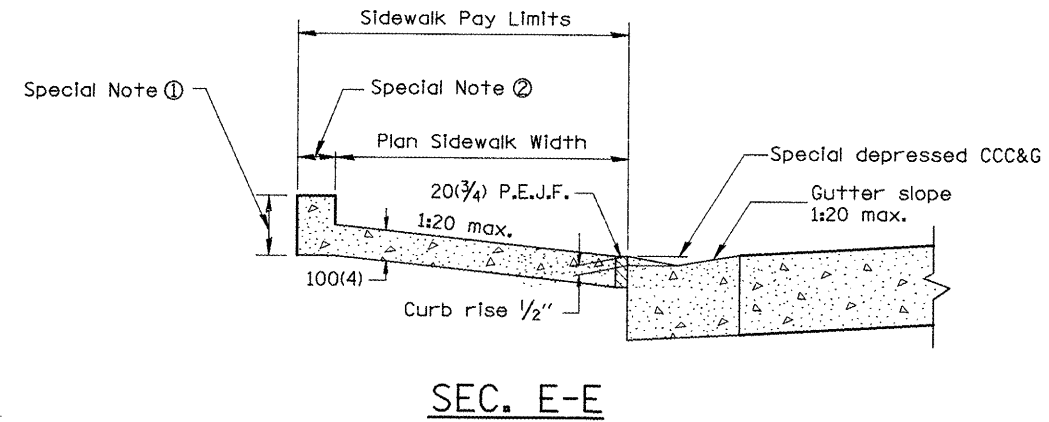
CADD std. NO. 424001-D4 SHEET 1 of 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. A-5.01, NEW REVISION BOX, REVISED TITLE.	T.P.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

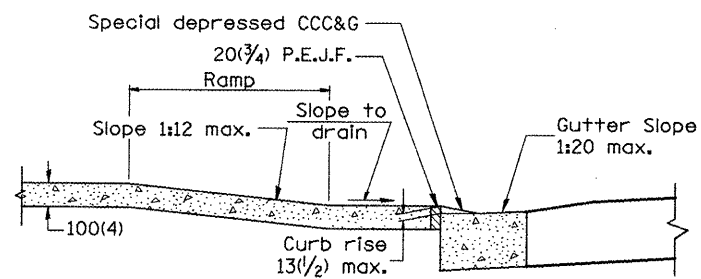
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	160
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CASE 3
TYPE B DIAGONAL RAMP WITH CURBLINE SIDEWALK



CASE 4
TYPE B RAMP WITH CURBLINE SIDEWALK



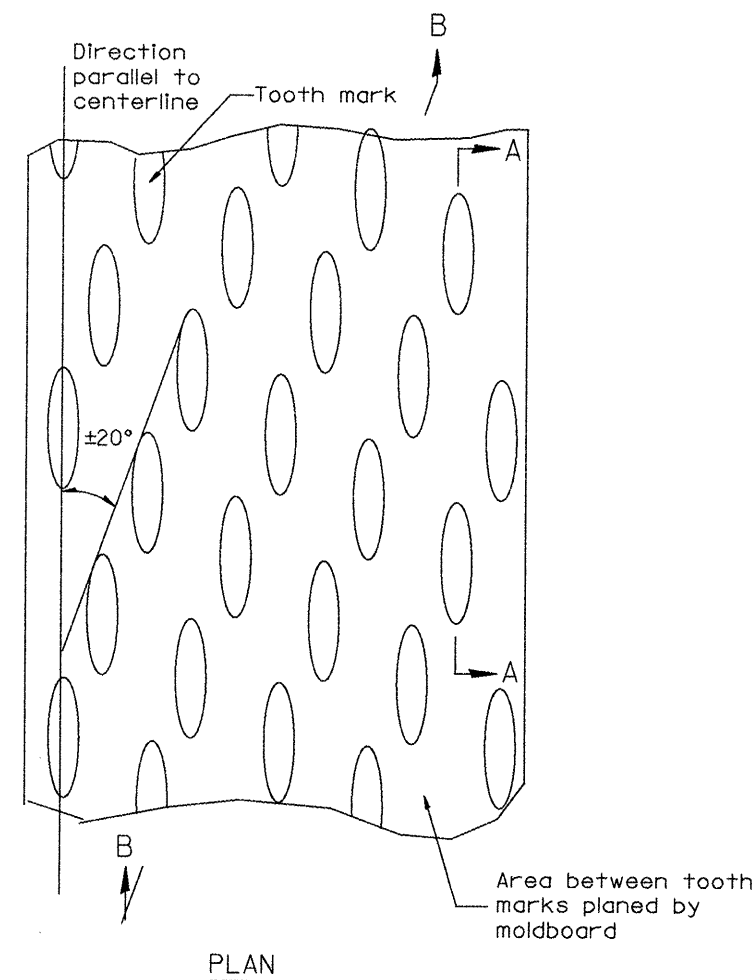
SEC. G-G

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

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED	
CADD std. NO. 424001-D4	SHEET 2 of 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
DATE **DATE**	CHECKED BY

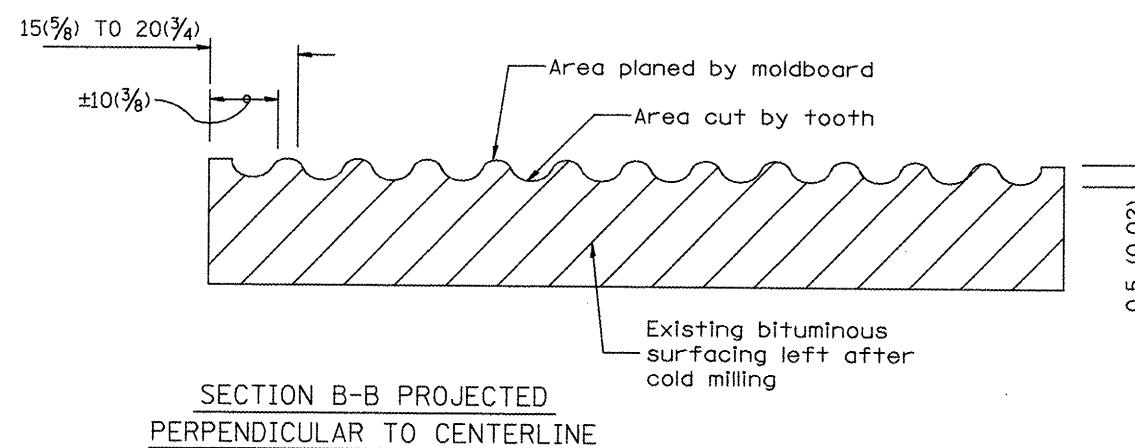
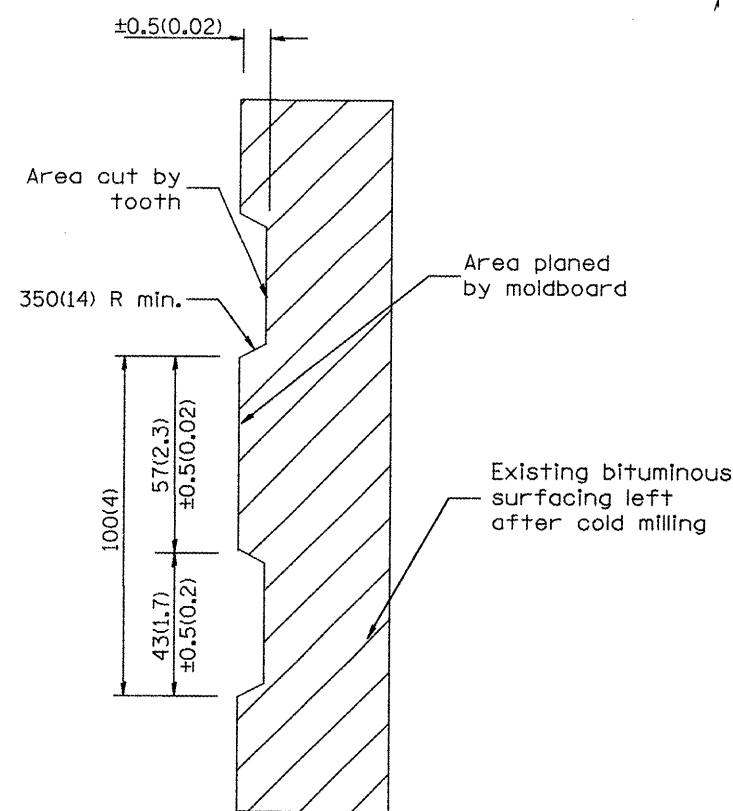
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	161
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



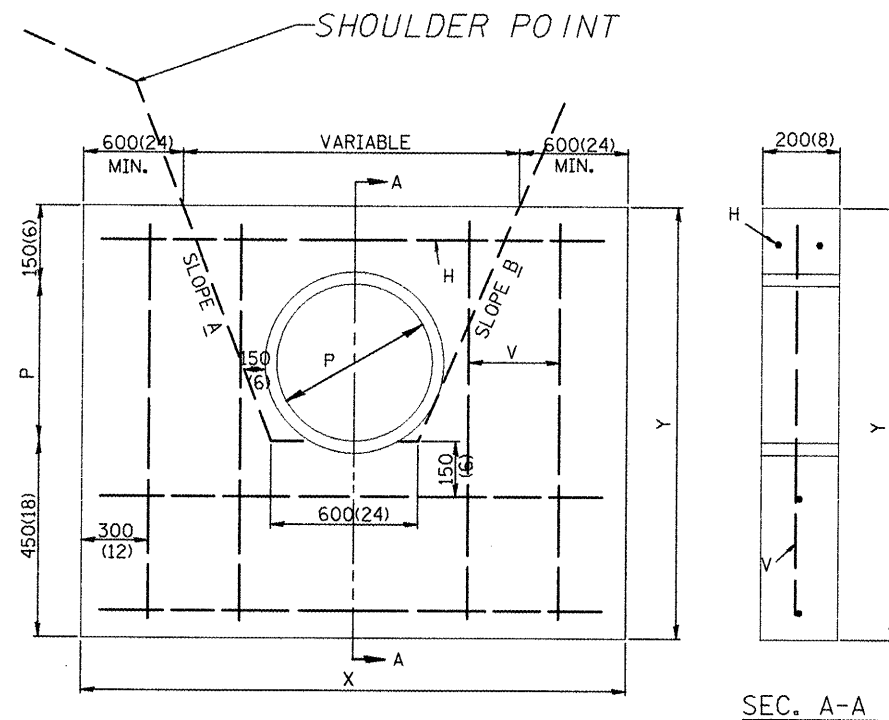
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
BITUMINOUS SURFACE REMOVAL (COLD MILLING)	
CADD STD NO. 440001-D4	
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
DATE: **DATE**	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. C-104.01, NEW REVISION BOX	T. P.
4-20-98	REMOVED MILLING DETAIL FROM STD.	J.
9-08-98	CORRECT NOTE LEADER PLACEMENT	R. W.

***DATE**

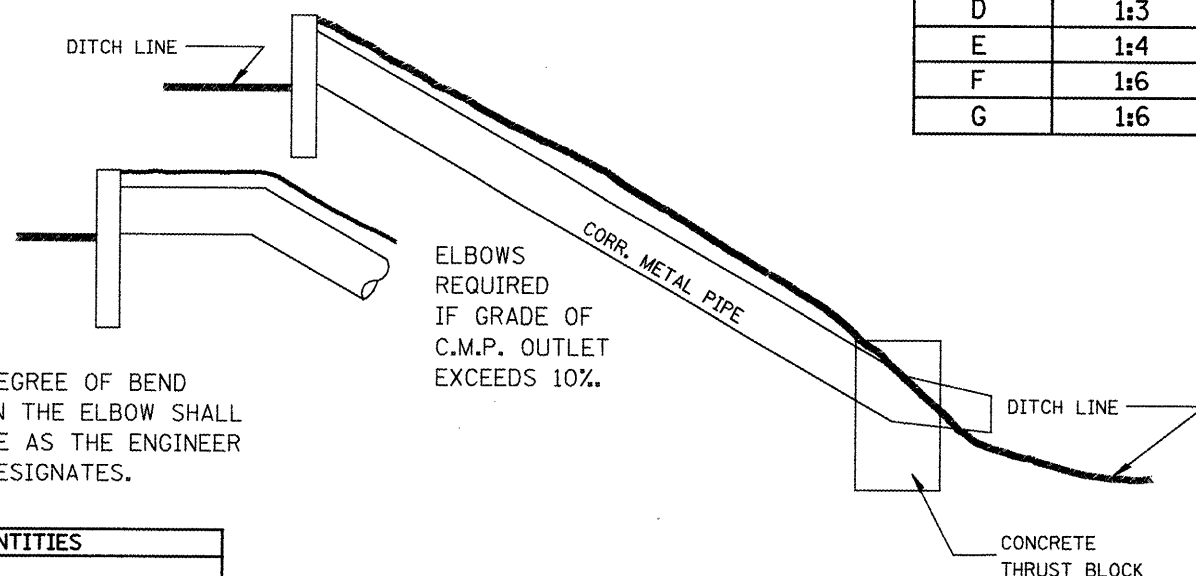
F.A.P. RATE	SECTION	COUNTY	TOTAL SHEET NO.
22	135W-24 RS-5	FULTON	282 162
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



General Notes

1. CLASS "SI" CONCRETE TO BE USED FOR CAST-IN-PLACE WALL.
2. ALL REINFORCING BARS ARE #15 (#4).
3. LENGTH AND SIZE CORR. METAL PIPE AS SHOWN ON PLANS
4. TOP OF WALL TO BE BELOW ELEVATION OF SHOULDERS

DESIGN	SLOPE A	SLOPE B
A	1:2	1:2
B	1:3	1:2
C	1:4	1:2
D	1:3	1:3
E	1:4	1:3
F	1:6	1:4
G	1:6	1:3



DEGREE OF BEND IN THE ELBOW SHALL BE AS THE ENGINEER DESIGNATES.

ELBOWS REQUIRED IF GRADE OF C.M.P. OUTLET EXCEEDS 10%.

DESIGN	P	X	Y	CONCRETE	REINFORCING BARS	
					m ³ (CU.YDS.)	H
12-A	300(12)	3.66m(12'-0")	914(36)	0.69(0.9)	27(37)	3.51m (11'-6") 762(30)
12-B	300(12)	3.96m(13'-0")	914(36)	0.76(1.0)	30(41)	3.96m (13'-0") 762(30)
12-C	300(12)	4.57m(15'-0")	914(36)	0.84(1.1)	33(45)	4.42m (14'-6") 762(30)
12-D	300(12)	4.57m(15'-0")	914(36)	0.84(1.1)	33(45)	4.42m (14'-6") 762(30)
12-E	300(12)	5.03m(16'-6")	914(36)	0.92(1.2)	35(49)	4.88m (16'-0") 762(30)
15-A	375(15)	3.96m(13'-0")	991(39)	0.69(0.9)	29(41)	3.81m (12'-6") 838(33)
15-B	375(15)	4.50m(14'-9")	991(39)	0.92(1.2)	33(45)	4.34m (14'-3") 838(33)
15-C	375(15)	5.03m(16'-6")	991(39)	0.99(1.3)	36(50)	4.88m (16'-0") 838(33)
15-D	375(15)	5.03m(16'-6")	991(39)	0.99(1.3)	36(50)	4.88m (16'-0") 838(33)
15-E	375(15)	5.56m(18'-3")	991(39)	1.07(1.4)	39(55)	5.41m (17'-9") 838(33)
15-F	375(15)	7.16m(23'-6")	991(39)	1.45(1.9)	49(69)	7.01m (23'-0") 838(33)
15-G	375(15)	6.63m(21'-9")	991(39)	1.30(1.7)	46(64)	6.48m (21'-3") 838(33)
18-A	450(18)	4.37m(14'-4")	1.07m(3'-6")	0.92(1.2)	32(44)	4.11m (13'-6") 914(36)
18-B	450(18)	4.88m(16'-0")	1.07m(3'-6")	0.99(1.3)	35(49)	4.72m (15'-6") 914(36)
18-C	450(18)	5.49m(18'-0")	1.07m(3'-6")	1.15(1.5)	39(55)	5.33m (17'-6") 914(36)
18-D	450(18)	5.49m(18'-0")	1.07m(3'-6")	1.15(1.5)	39(55)	5.33m (17'-6") 914(36)
18-E	450(18)	6.10m(20'-0")	1.07m(3'-6")	1.30(1.7)	43(60)	5.94m (19'-6") 914(36)
18-F	450(18)	7.92m(26'-0")	1.07m(3'-6")	1.68(2.2)	55(76)	7.77m (26'-6") 914(36)
18-G	450(18)	7.32m(24'-0")	1.07m(3'-6")	1.53(2.0)	51(71)	7.16m (23'-6") 914(36)
24-A	600(24)	4.88m(16'-0")	1.22m(4'-0")	1.15(1.5)	36(51)	4.72m (15'-6") 1.07m (3'-6")
24-B	600(24)	5.64m(18'-6")	1.22m(4'-0")	1.30(1.7)	41(57)	5.49m (18'-0") 1.07m (3'-6")
24-C	600(24)	6.40m(21'-0")	1.22m(4'-0")	1.53(2.0)	46(64)	6.25m (20'-6") 1.07m (3'-6")
24-D	600(24)	6.40m(21'-0")	1.22m(4'-0")	1.53(2.0)	46(64)	6.25m (20'-6") 1.07m (3'-6")
24-E	600(24)	7.16m(23'-6")	1.22m(4'-0")	1.68(2.2)	51(71)	7.01m (23'-0") 1.07m (3'-6")
30-A	750(30)	5.49m(18'-0")	1.37m(4'-6")	1.45(1.9)	41(57)	5.33m (17'-6") 1.22m (4'-0")
30-B	750(30)	6.40m(21'-0")	1.37m(4'-6")	1.53(2.0)	47(65)	6.25m (20'-6") 1.22m (4'-0")
30-C	750(30)	7.32m(24'-0")	1.37m(4'-6")	1.99(2.6)	53(73)	7.16m (23'-6") 1.22m (4'-0")
30-D	750(30)	7.32m(24'-0")	1.37m(4'-6")	1.99(2.6)	53(73)	7.16m (23'-6") 1.22m (4'-0")
30-E	750(30)	8.33m(27'-0")	1.37m(4'-6")	2.22(2.9)	58(81)	8.08m (26'-6") 1.22m (4'-0")

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

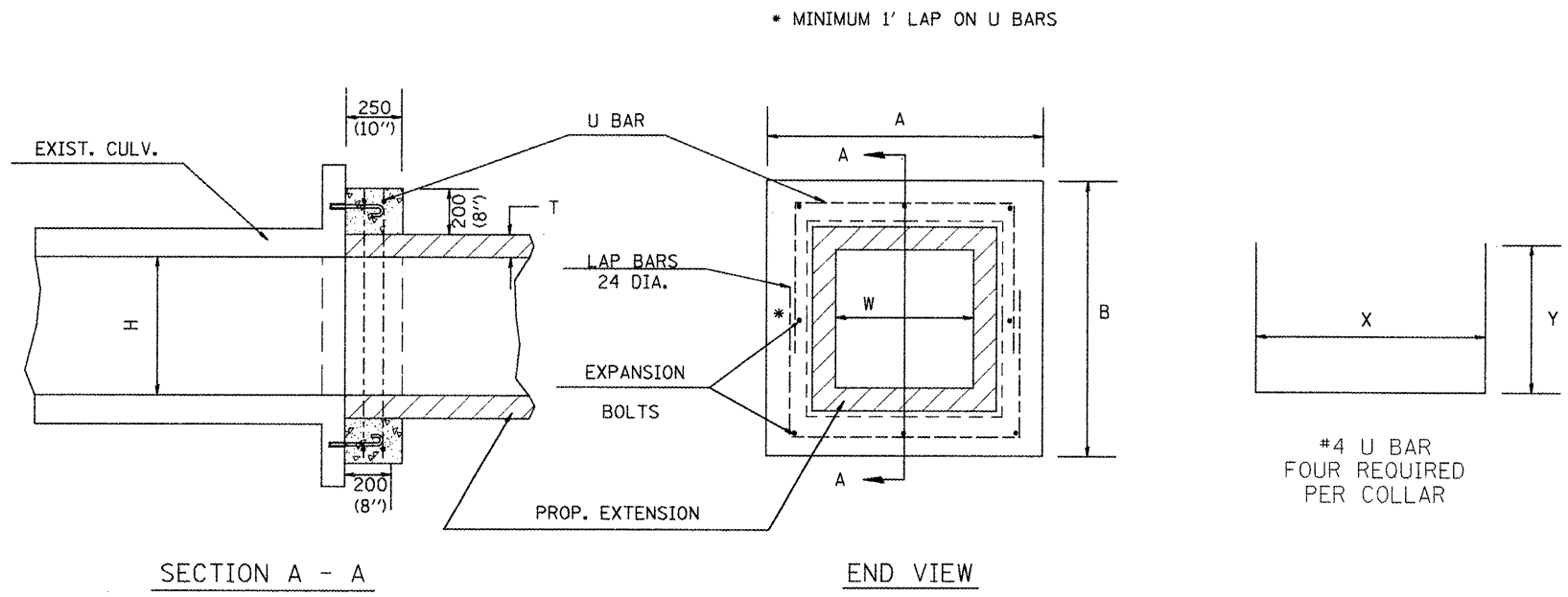
All dimensions are in millimeters (Inches) unless otherwise noted.

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	RENUM. J-10.01, METRICS, NEW REVISION BOX, ADDED QUANTITY CALCULATION BOX, REVISED NOTES	T.P.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
CONCRETE DITCH CHECK
 CADD STANDARD 503001-D4
 SCALE: NOT TO SCALE
 DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	163
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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 expansions 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.

* Dimensions for ASTM C789.

DIMENSIONS

EXISTING BOX		A	B	T *	EACH COLLAR				
W mm (ft)	H mm (ft)				CL SI m ³ (CU YD)	REINFORCEMENT BARS		EXPANSION BOLTS	
					X	Y	kg (POUNDS)	NO.	
600(2)	600(2)	1.22m (4'-0'')	1.22m (4'-0'')	100(4'')	0.21(0.27)	1.02m (3'-4'')	660(26'')	16(21)	8
900(3)	600(2)	1.52m (5'-0'')	1.22m (4'-0'')	100(4'')	0.24(0.32)	1.32m (4'-4'')	660(26'')	18(23)	8
900(3)	750(2.5)	1.52m (5'-0'')	1.37m (4'-6'')	100(4'')	0.26(0.34)	1.32m (4'-4'')	737(29'')	19(25)	8
900(3)	900(3)	1.52m (5'-0'')	1.52m (5'-0'')	100(4'')	0.28(0.36)	1.32m (4'-4'')	813(32'')	20(26)	8
900(3)	1200(4)	1.57m (5'-2'')	1.88m (6'-2'')	125(5'')	0.31(0.41)	1.37m (4'-6'')	991(39'')	22(29)	10
1200(4)	900(3)	1.88m (6'-2'')	1.57m (5'-2'')	125(5'')	0.31(0.41)	1.68m (5'-6'')	838(33'')	22(29)	10
1200(4)	1200(4)	1.88m (6'-2'')	1.88m (6'-2'')	125(5'')	0.34(0.45)	1.68m (5'-6'')	991(39'')	25(32)	12
1200(4)	1500(5)	1.93m (6'-4'')	2.24m (7'-4'')	150(6'')	0.39(0.51)	1.73m (5'-8'')	1.17m (3'-10'')	28(36)	14
1500(5)	1200(4)	2.24m (7'-4'')	1.93m (6'-4'')	150(6'')	0.39(0.51)	2.03m (6'-8'')	1.02m (3'-4'')	28(36)	14
1500(5)	1500(5)	2.24m (7'-4'')	2.24m (7'-4'')	150(6'')	0.42(0.55)	2.03m (6'-8'')	1.17m (3'-10'')	29(38)	16
1500(5)	1800(6)	2.29m (7'-6'')	2.59m (8'-6'')	175(7'')	0.46(0.60)	2.08m (6'-10'')	1.35m (4'-5'')	32(42)	16
1800(6)	1200(4)	2.59m (8'-6'')	1.98m (6'-6'')	175(7'')	0.43(0.56)	2.39m (7'-10'')	1.04m (3'-5'')	30(39)	14
1800(6)	1500(5)	2.59m (8'-6'')	2.29m (7'-6'')	175(7'')	0.46(0.60)	2.39m (7'-10'')	1.19m (3'-11'')	32(42)	16
1800(6)	1800(6)	2.59m (8'-6'')	2.59m (8'-6'')	175(7'')	0.49(0.64)	2.39m (7'-10'')	1.35m (4'-5'')	35(45)	16
1800(6)	2400(8)	2.64m (8'-8'')	3.25m (10'-8'')	200(8'')	0.57(0.74)	2.44m (8'-0'')	1.68m (5'-6'')	39(51)	18
2400(8)	2400(8)	3.25m (10'-8'')	3.25m (10'-8'')	200(8'')	0.63(0.82)	3.05m (10'-0'')	1.68m (5'-6'')	43(56)	20

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	RENUM. J-12.01, METRICS, NEW REVISION BOX, REVISED TITLE BOX, ADDED QUANTITY CALCULATION BOX.	T.P.

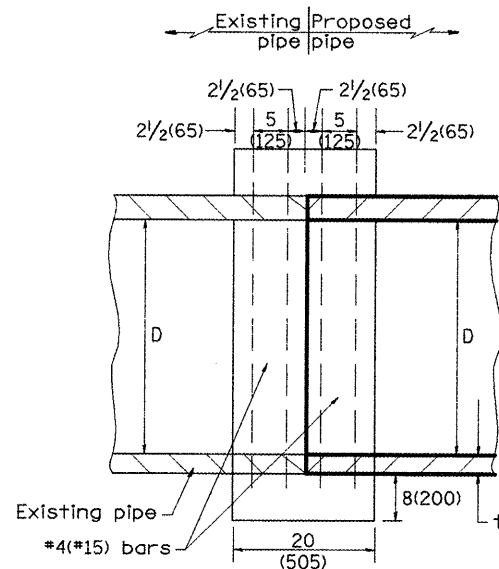
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

COLLAR FOR BOX CULVERT EXTENSIONS

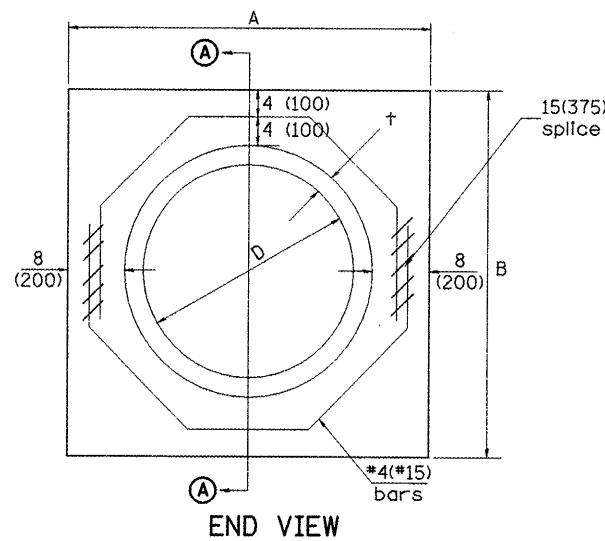
CADD STANDARD 540001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY _____

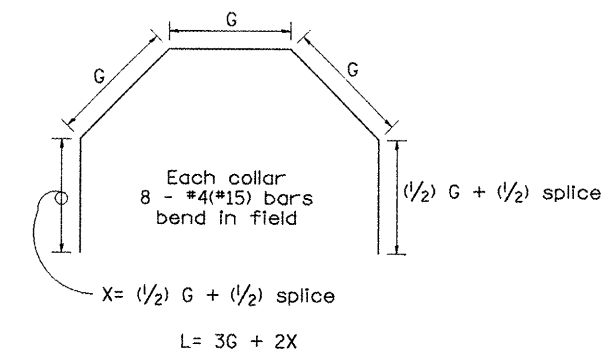
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	165
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SECTION A - A



END VIEW



Each Collar								
Reinforcement Bars								
D	t	A	B	CL. SI CONC.	G	X	L	Weight
in (mm)	in (mm)	ft (m)	ft (m)	cu. yd. (m ³)	in (mm)	in (mm)	ft (m)	lb (kg)
12 (300)	2.00 (51)	2.67 (0.814)	2.67 (0.814)	0.4 (0.270)	9 ¹⁵ / ₁₆ (253)	12 ⁷ / ₁₆ (317)	4.57 (1.393)	24 (11)
15 (375)	2.25 (57)	2.96 (0.902)	2.96 (0.902)	0.4 (0.315)	11 ³ / ₈ (290)	13 ³ / ₁₆ (335)	5.05 (1.541)	27 (12)
18 (450)	2.50 (64)	3.25 (0.991)	3.25 (0.991)	0.5 (0.362)	12 ¹³ / ₁₆ (327)	13 ⁷ / ₈ (354)	5.54 (1.689)	30 (14)
21 (525)	2.75 (70)	3.54 (1.079)	3.54 (1.079)	0.5 (0.411)	14 ¹ / ₄ (364)	14 ⁵ / ₈ (372)	6.02 (1.836)	32 (15)
24 (600)	3.00 (76)	3.83 (1.167)	3.84 (1.167)	0.6 (0.460)	15 ¹¹ / ₁₆ (401)	15 ⁵ / ₁₆ (391)	6.51 (1.984)	35 (16)
27 (675)	3.25 (83)	4.13 (1.259)	4.13 (1.259)	0.7 (0.516)	17 ¹ / ₄ (438)	16 ¹ / ₁₆ (409)	6.99 (2.131)	37 (17)
30 (750)	3.50 (89)	4.42 (1.347)	4.42 (1.347)	0.7 (0.570)	18 ¹¹ / ₁₆ (475)	16 ³ / ₄ (428)	7.48 (2.279)	40 (18)
33 (825)	3.75 (95)	4.71 (1.436)	4.71 (1.436)	0.8 (0.624)	20 ¹ / ₈ (512)	17 ¹ / ₂ (446)	7.96 (2.426)	43 (19)
36 (900)	4.00 (102)	5.00 (1.524)	5.00 (1.524)	0.9 (0.682)	21 ⁹ / ₁₆ (549)	18 ³ / ₁₆ (465)	8.44 (2.574)	45 (20)
42 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 ⁷ / ₁₆ (622)	19 ³ / ₄ (501)	9.41 (2.869)	50 (23)
48 (1200)	5.00 (127)	6.17 (1.881)	6.17 (1.881)	1.2 (0.930)	27 ⁵ / ₁₆ (696)	21 ³ / ₁₆ (538)	10.38 (3.164)	55 (25)

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 inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

PIPE CULVERT
EXTENSION COLLAR
(WITHOUT END SECTION)
CADD STANDARD 542016-D4

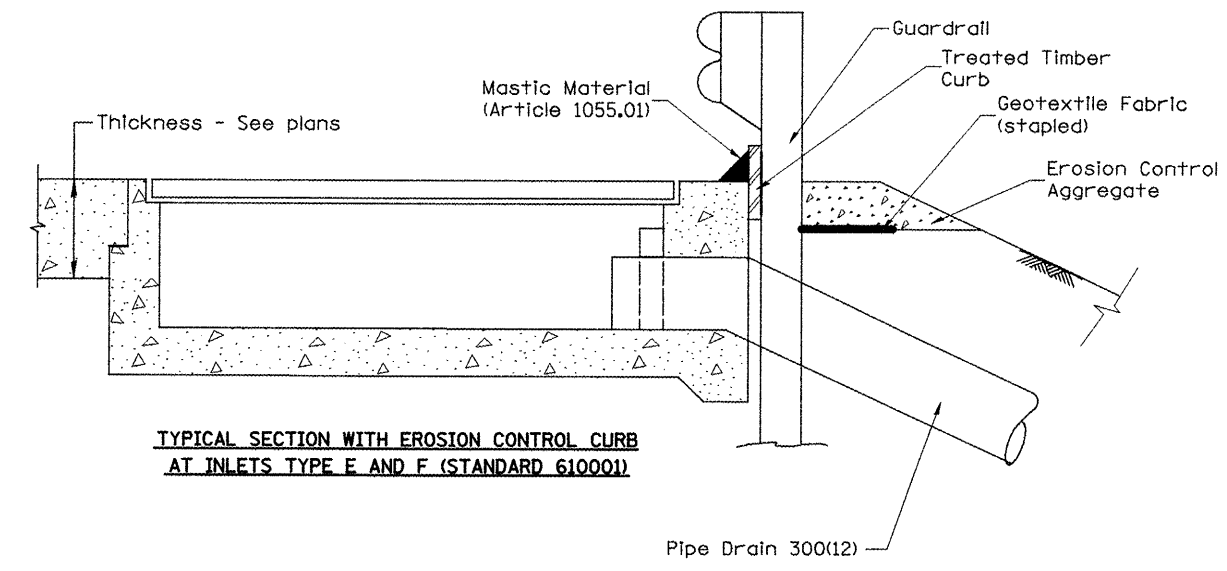
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DATE: CHECKED BY:

DATE	REVISIONS	BY
1-1-97	RENUM. B-8.03, 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.
10-16-06	REV. TO 2007 SPEC., CORRECT mm UNITS	M.A.

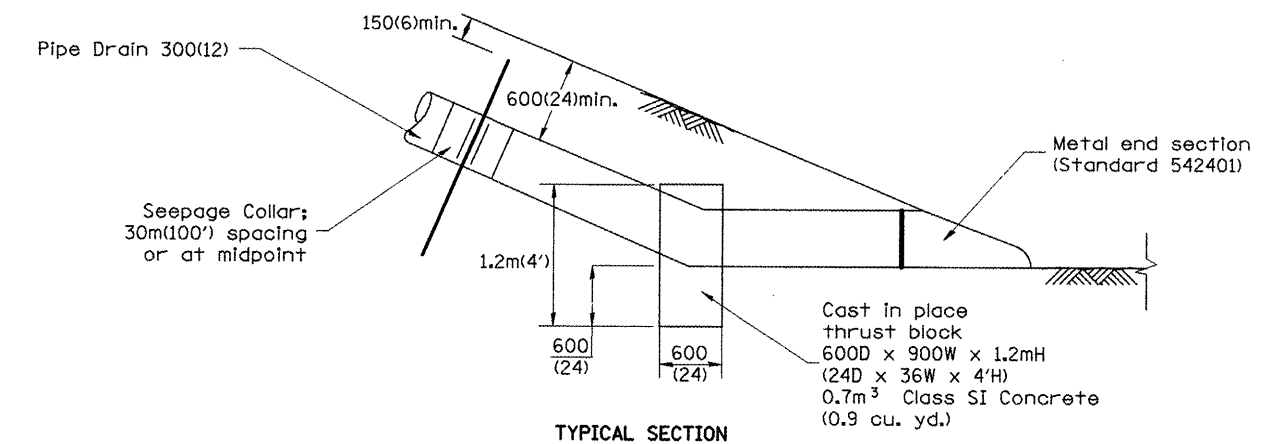
QUANTITIES	
CALC. BY: R. J. D.	2-2-98
CHECKED BY: R. D. H.	2-6-98

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

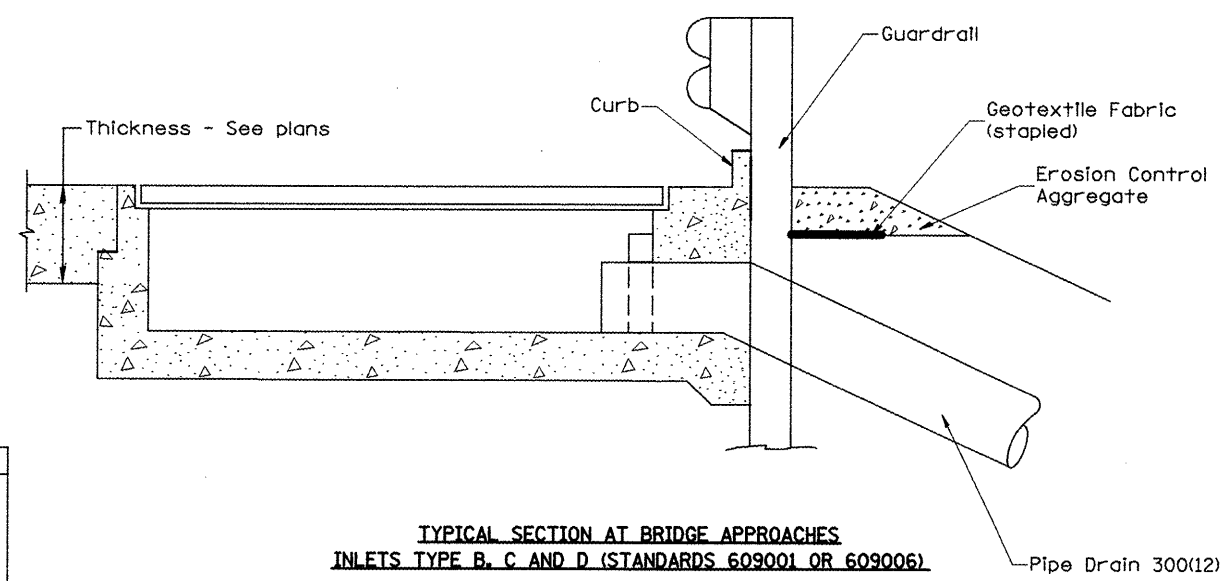
CONTRACT NO. 68114			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
22	135W-2 RS-5	FULTON	282 166
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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



TYPICAL SECTION



TYPICAL SECTION AT BRIDGE APPROACHES INLETS TYPE B, C AND D (STANDARDS 609001 OR 609006)

GENERAL NOTES

1. The material for Pipe Drains shall be bituminous coated galvanized corrugated steel culvert pipe or bituminous coated corrugated aluminum alloy pipe in accordance with Article 601.02(f) or 601.02(i).
2. An approved mastic material (Article 1055.01) shall be applied to the inside of the connecting bands.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

SLOPE DRAIN DETAILS FOR BURIED PIPES

CADD STD. NO. 601101-D4
NOT DRAWN TO SCALE

DRAWN BY CADD

DATE	REVISIONS	BY
1-1-97	RENUM. H-1.04, NEW REVISION BOX, REVISED TITLE BOX, REVISED DESIGNER NOTES, 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.
22	135W-2; RS-5	FULTON	282	167
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

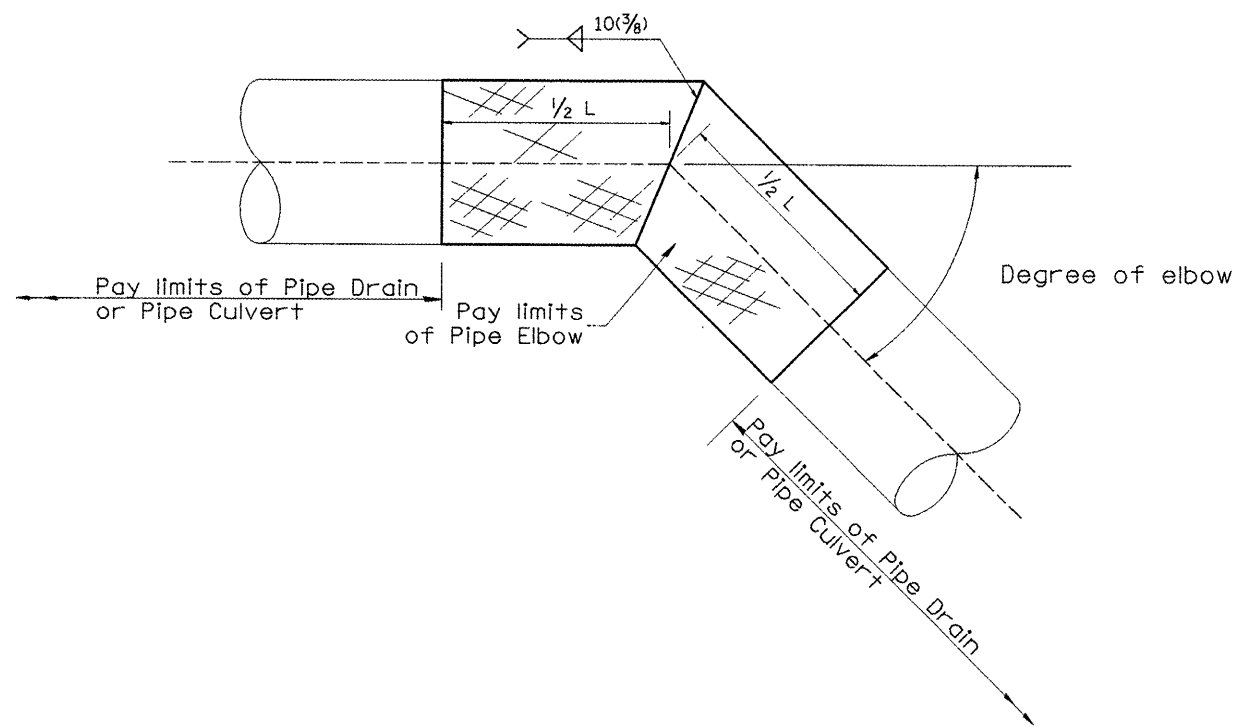
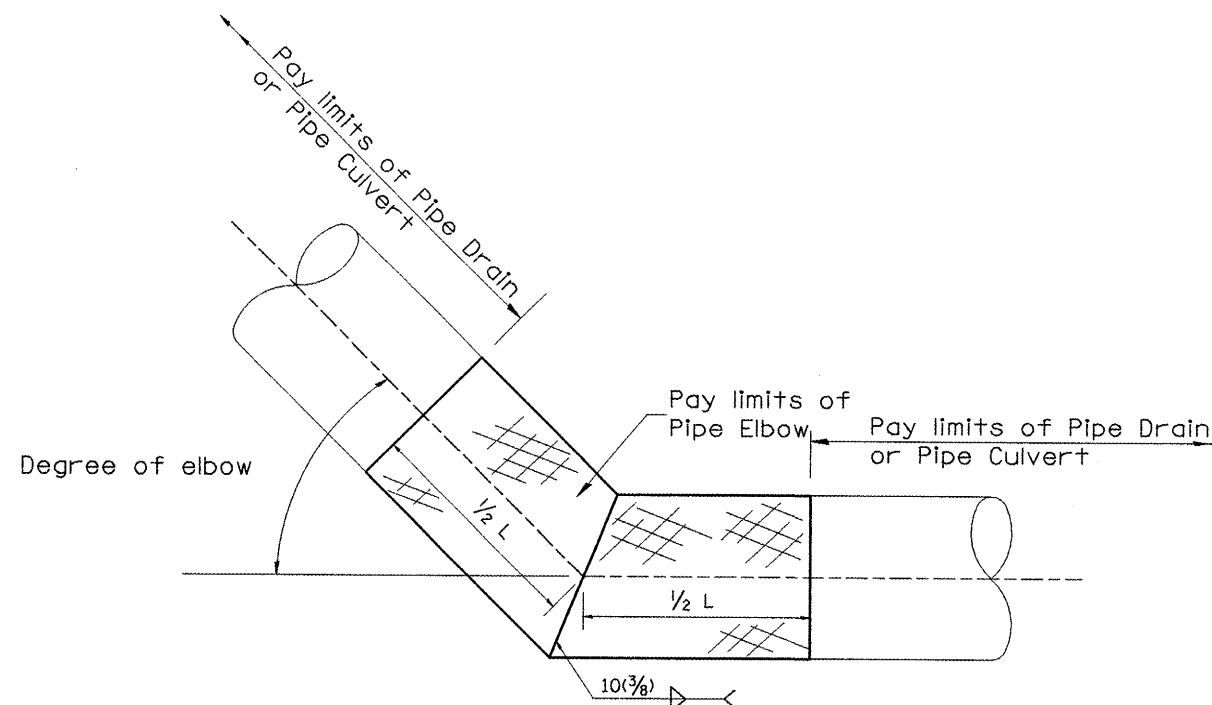


TABLE A		
ELBOW DESIGN CONTROLS		
PIPE DIAMETER	L = Pay limits of Pipe Elbow and minimum length of pipe required for fabrication	
	DEGREE OF ELBOW ≤ 45°	DEGREE OF ELBOW ≥ 46°
300(12)	600(24)	1.22M(4')
375(15)	600(24)	1.22M(4')
450(18)	600(24)	1.22M(4')
525(21)	600(24)	1.22M(4')
600(24)	1.22M(4')	1.22M(4')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

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

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



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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

PIPE ELBOW

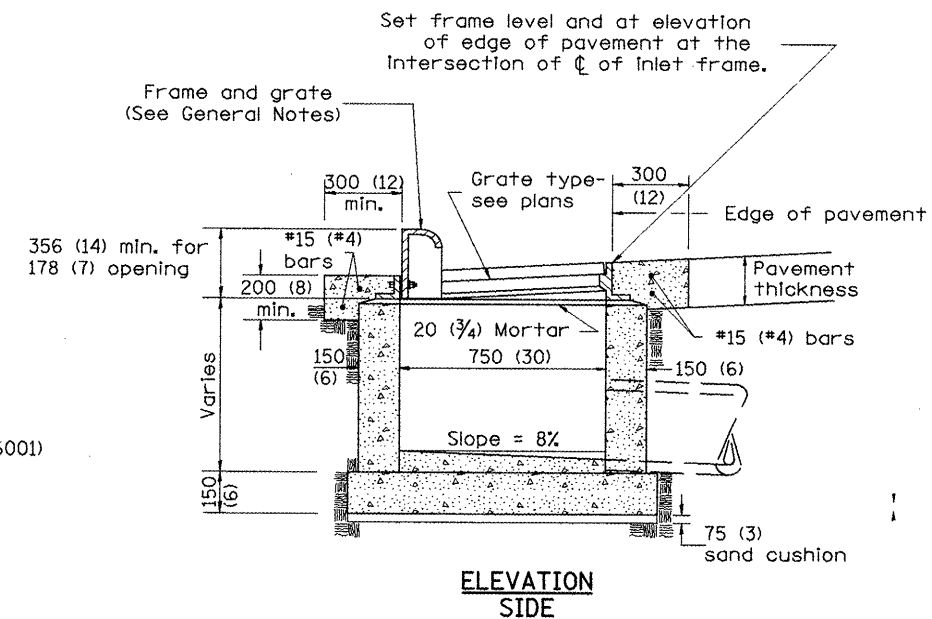
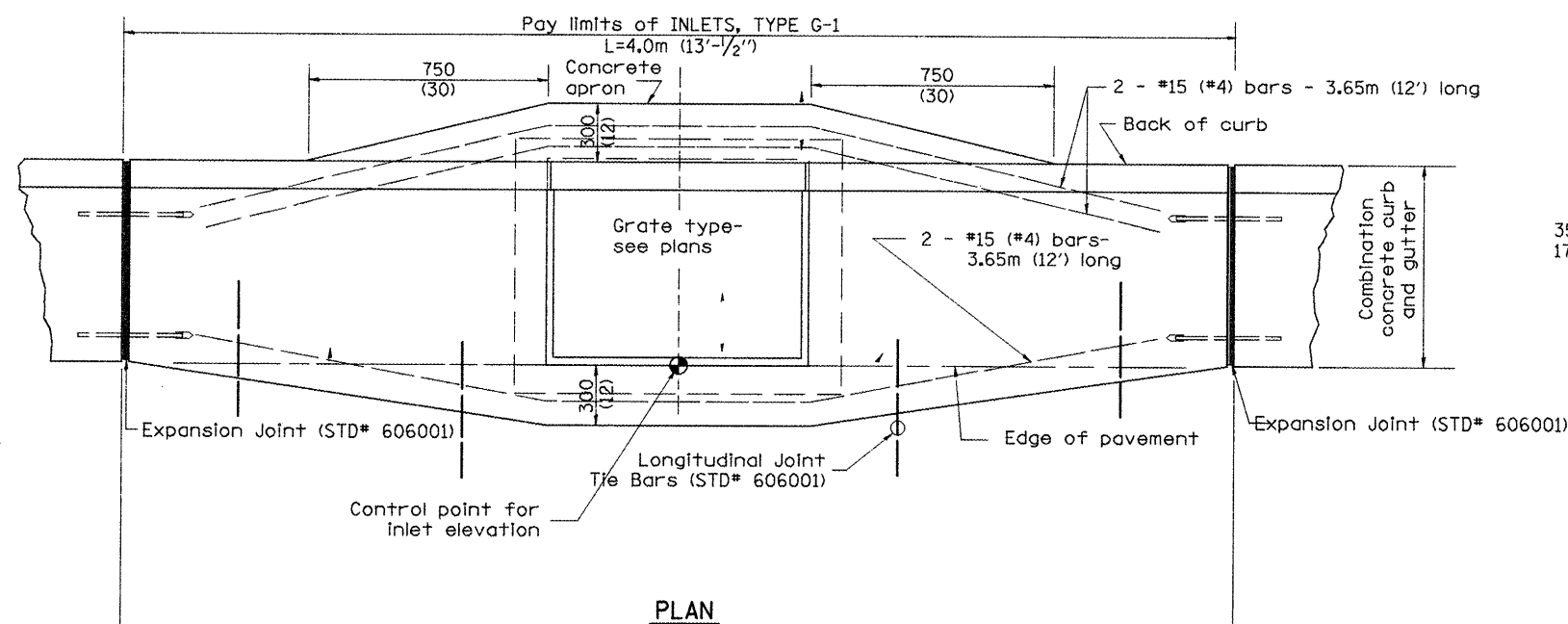
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DRAWN BY CADD
CHECKED BY

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

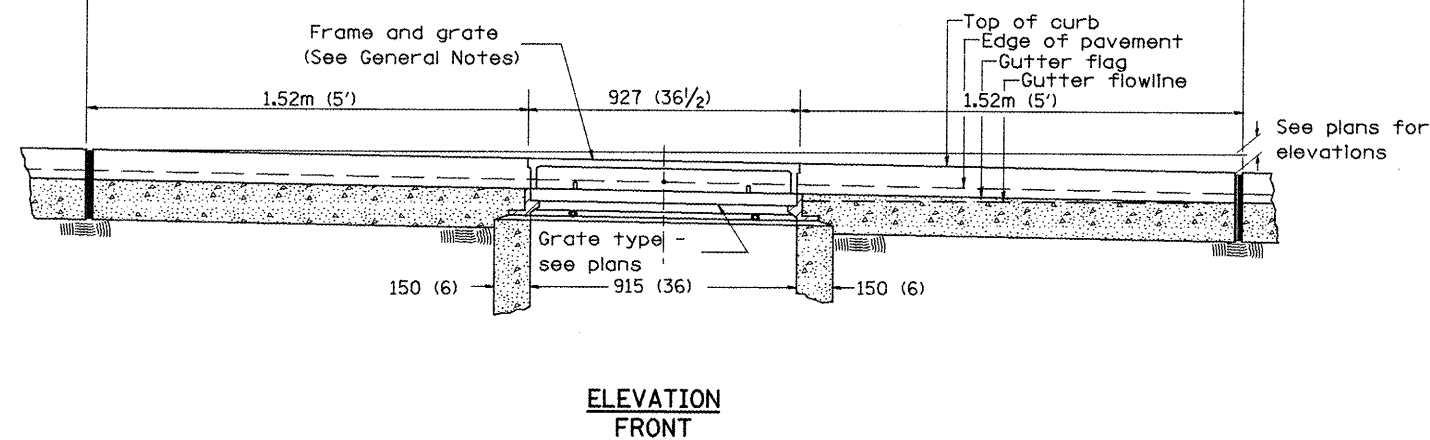
DATE

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	168
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.



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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

INLETS, TYPE G-1

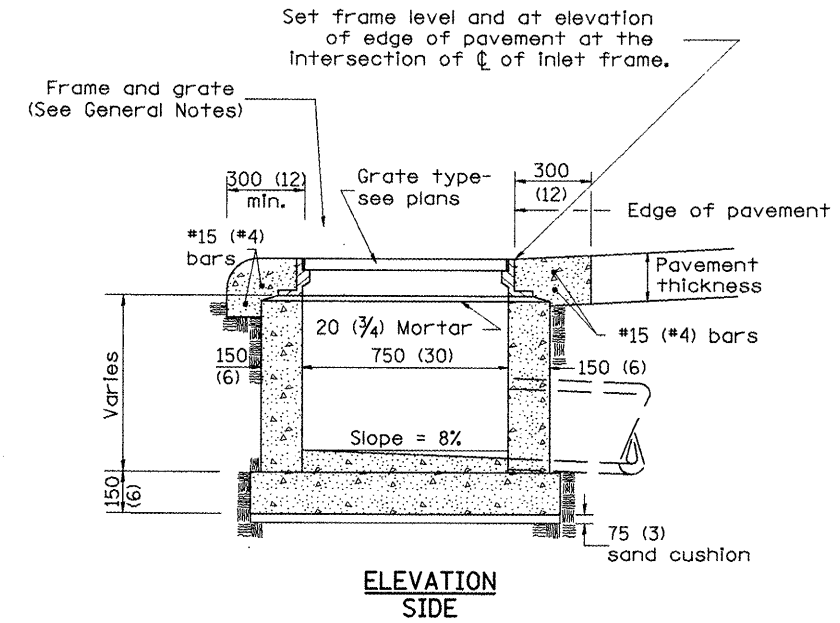
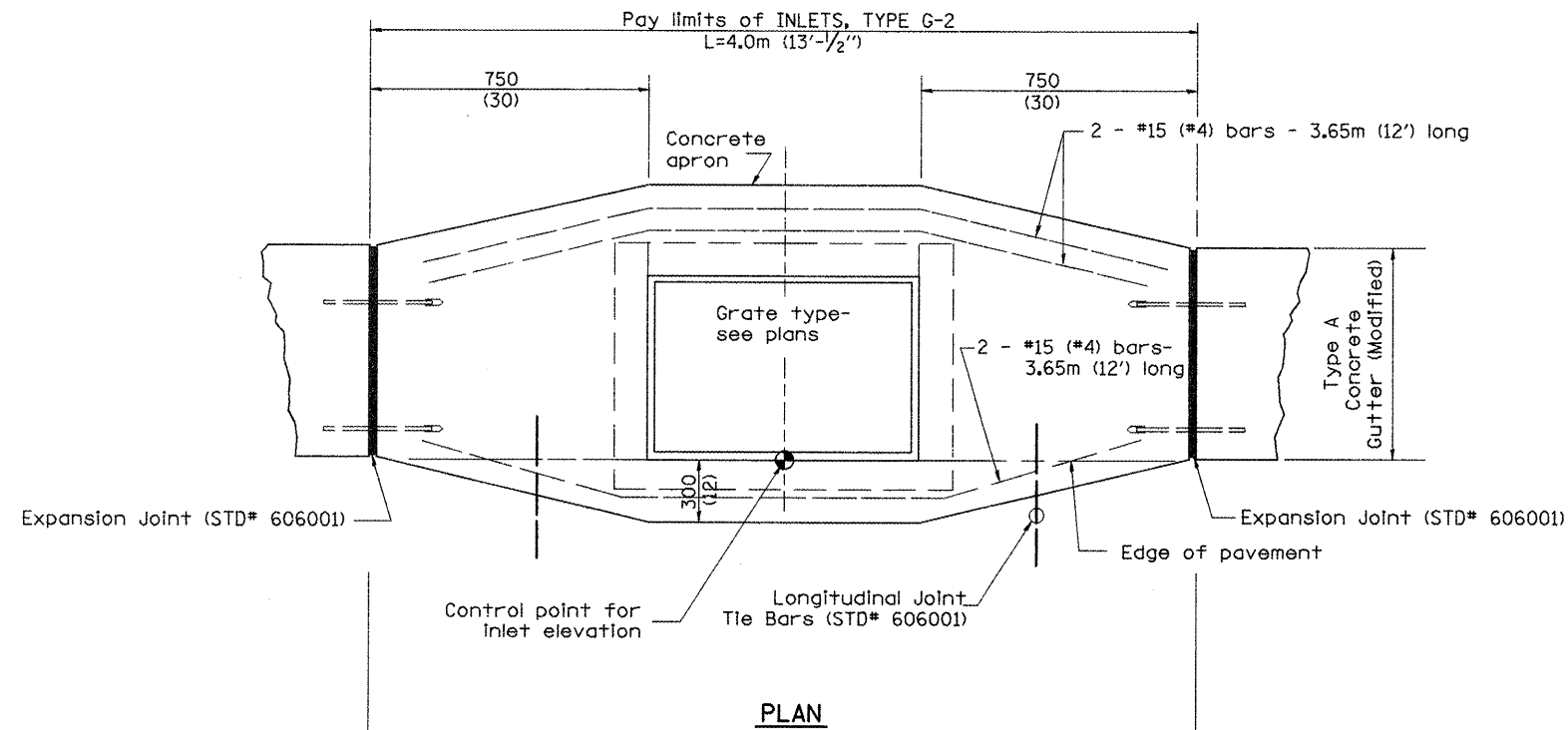
CADD STD NO. 602001-D4

SCALE NOT TO SCALE

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CHECKED BY

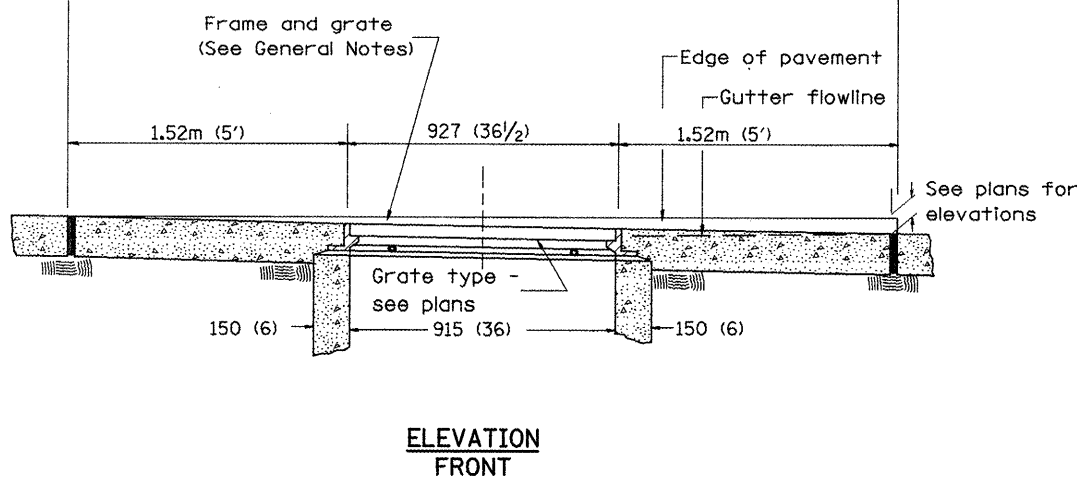
DATE	REVISIONS	BY
1-1-97	RENUM. B-4.01, NEW REVISION BOX	T.P.
10-99	REVISION TO GENERAL NOTES	J.A.
2-00	REVISION TO DESIGNER NOTES	J.A.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	169
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Type A Concrete Gutter (Modified) shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604002-D4 for frame and grate.



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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

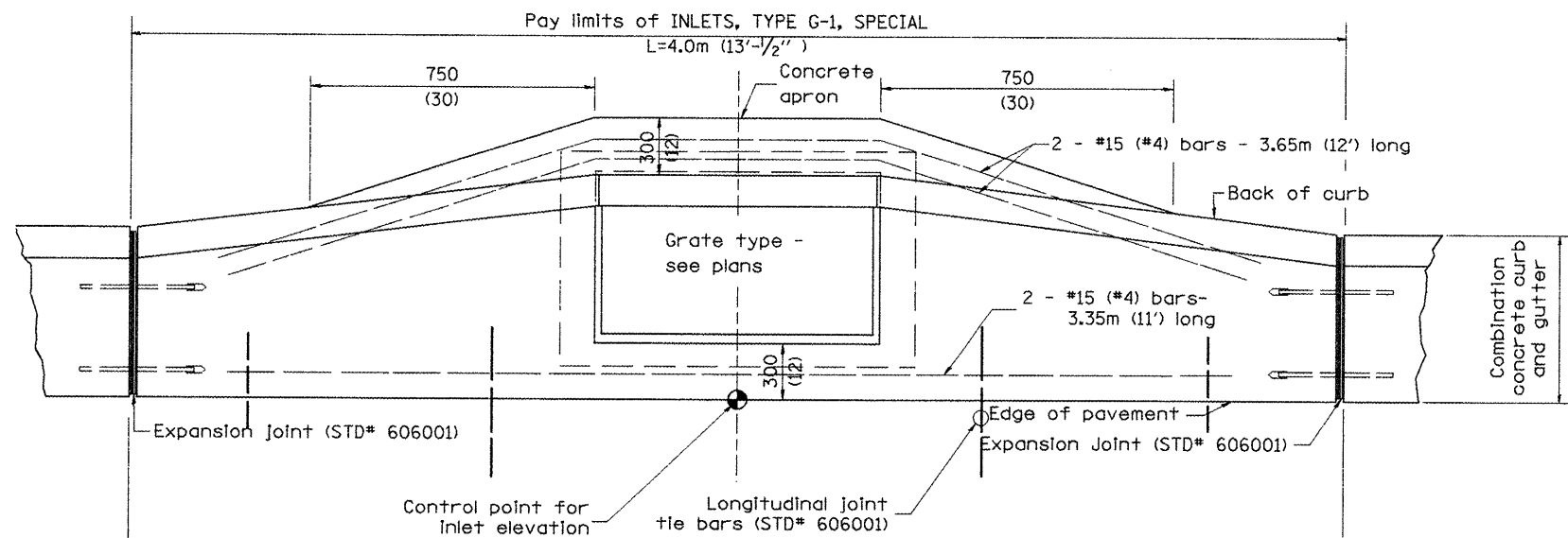
INLETS, TYPE G-2

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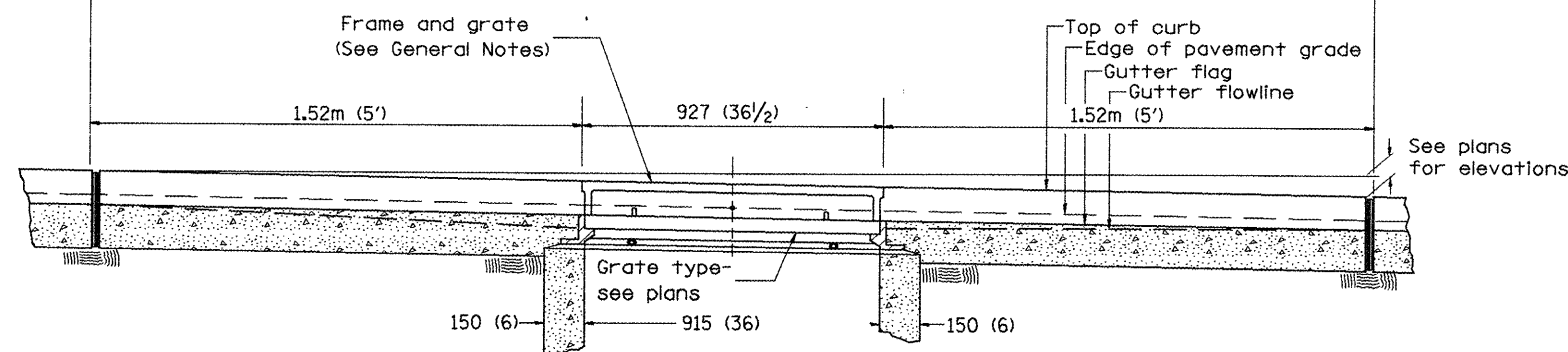
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CHECKED BY

DATE	REVISIONS	BY
10-99	NEW D-4 CADD STD.	J.A.
2-00	REVISION TO DESIGNER & GEN NOTES	J.A.
3-00	REMOVE REFERENCE TO FACE-OF-CURB	

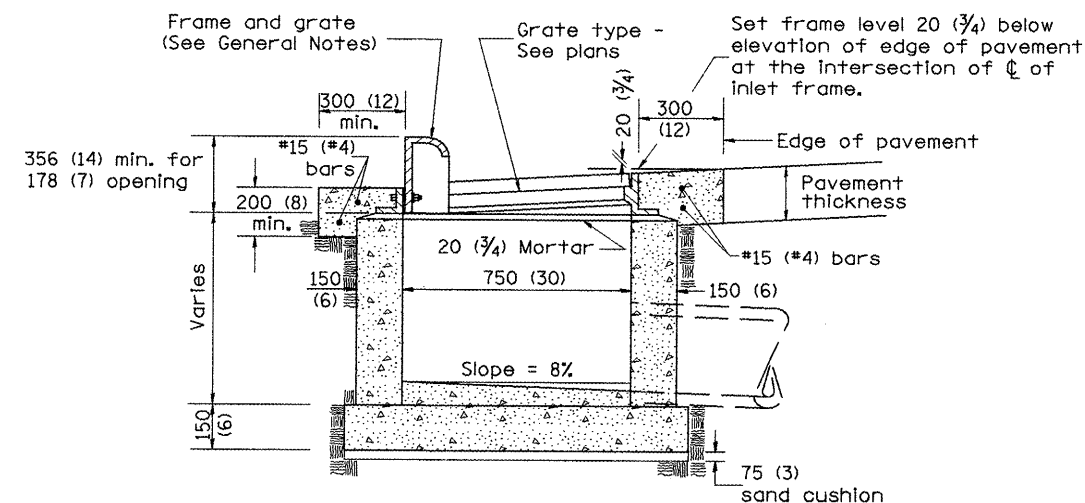
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22	135W-2	RS-5	FULTON	282
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



ELEVATION (FRONT)



ELEVATION (SIDE)

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb and Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

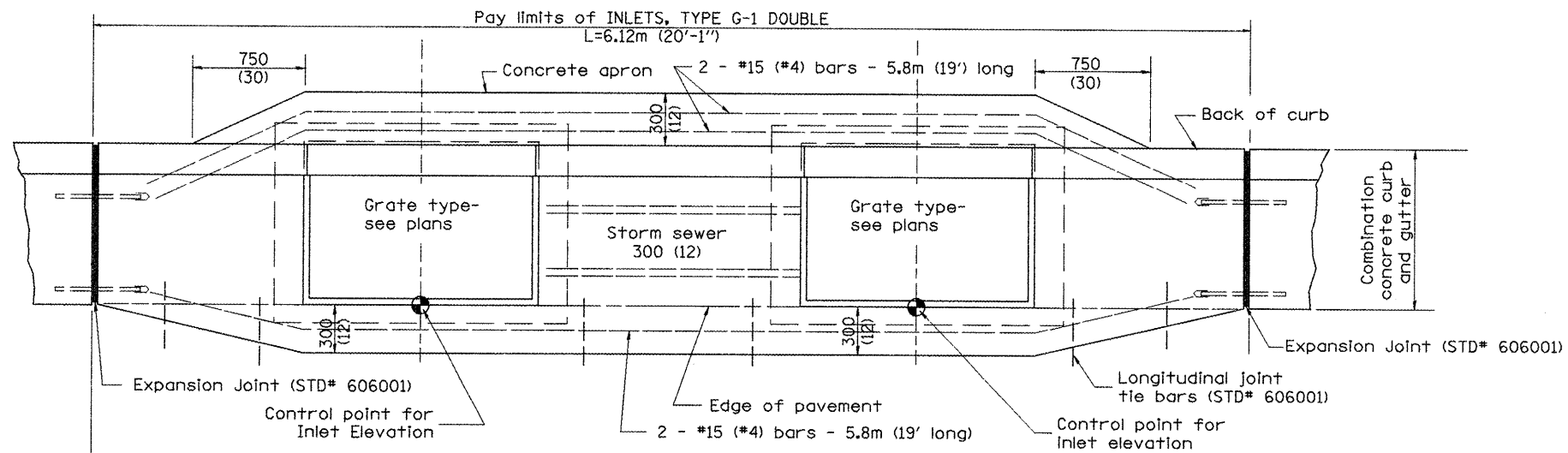
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
INLETS, TYPE G-1, SPECIAL	
CADD STANDARD 602006-D4	DRAWN BY CADD
SCALE NOT TO SCALE	CHECKED BY

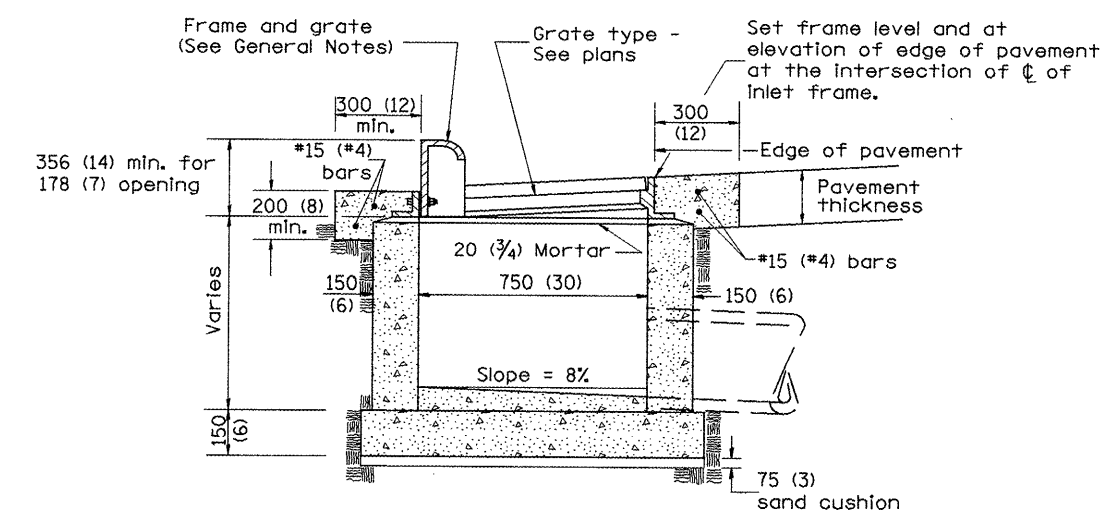
DATE	REVISIONS	BY
1-1-97	RENUM. B-4.02, NEW REVISION BOX	
12-1-98	CORRECT E. O. P. NOTE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.

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

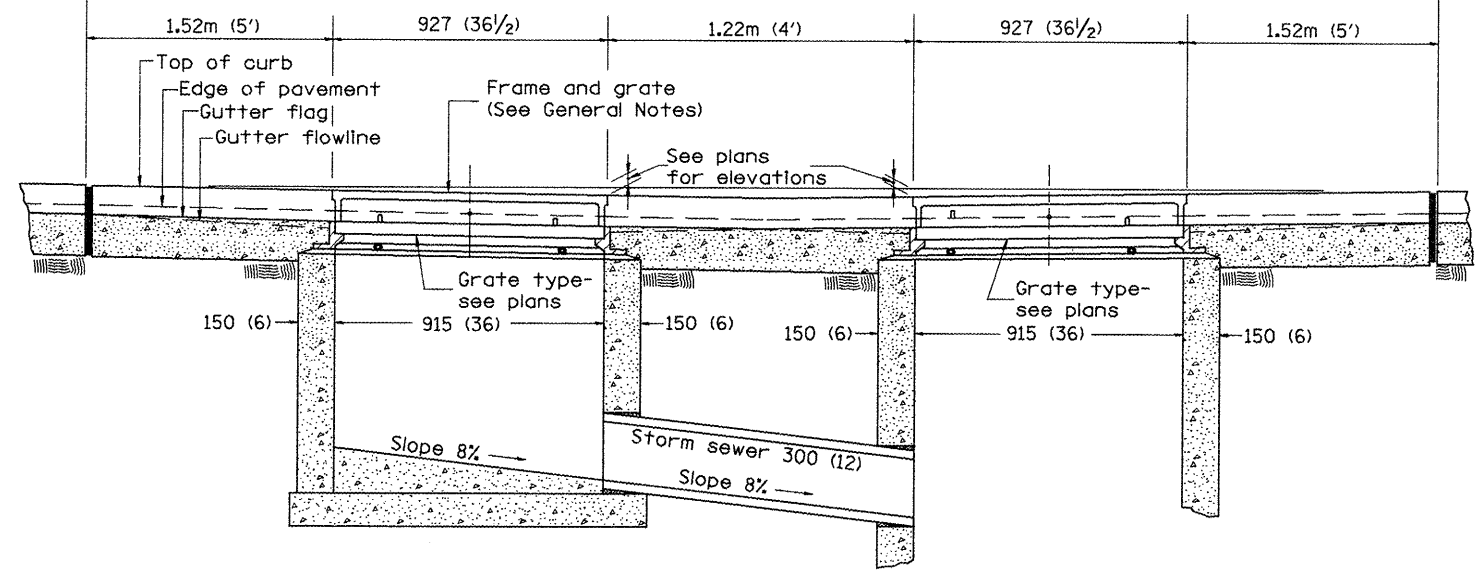
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22	135W-2; RS-5	FULTON	282	171
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN



ELEVATION (SIDE)



FRONT ELEVATION

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

INLETS, TYPE G-1 DOUBLE

CADD STANDARD 602011-D4
SCALE NOT TO SCALE

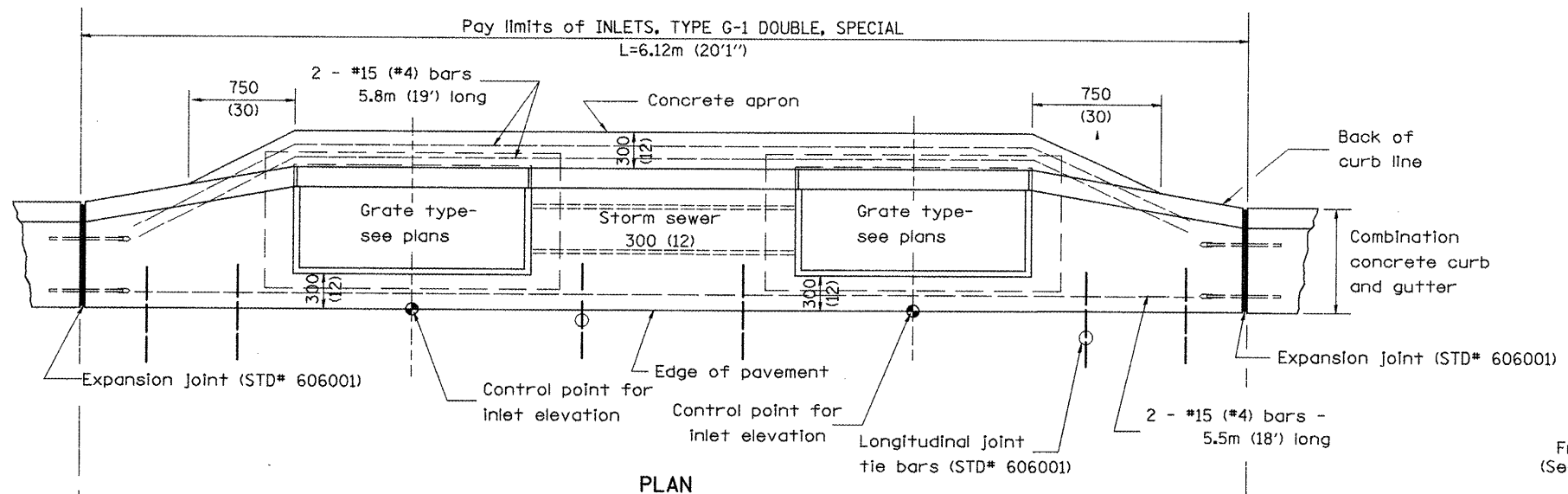
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CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.03, NEW REVISION BOX	T.P.
4-1-97	CORRECT PAVT SLOPE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.
2-00	REVISION TO DESIGNER NOTES	J.A.

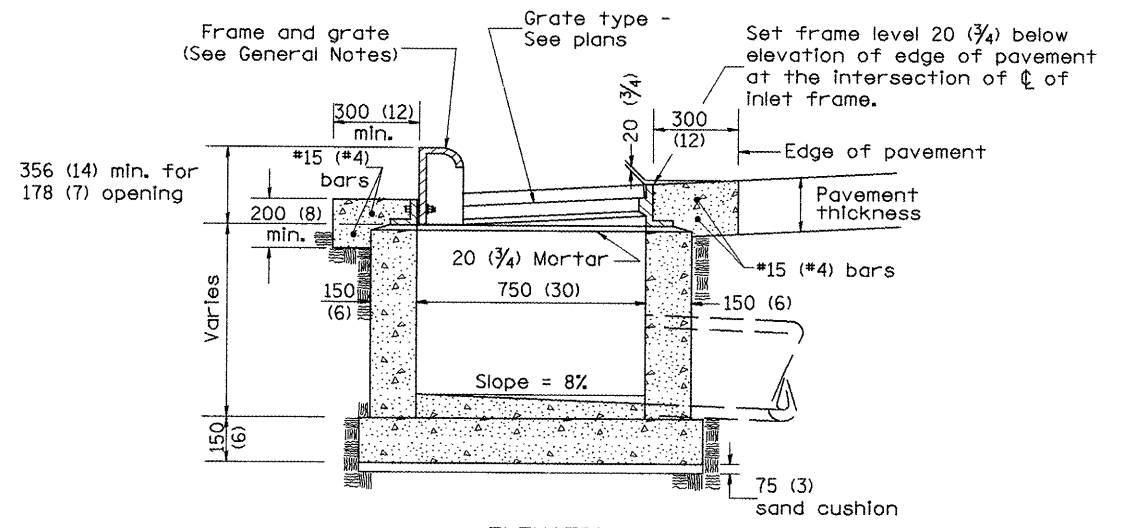
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DGN-ONLY

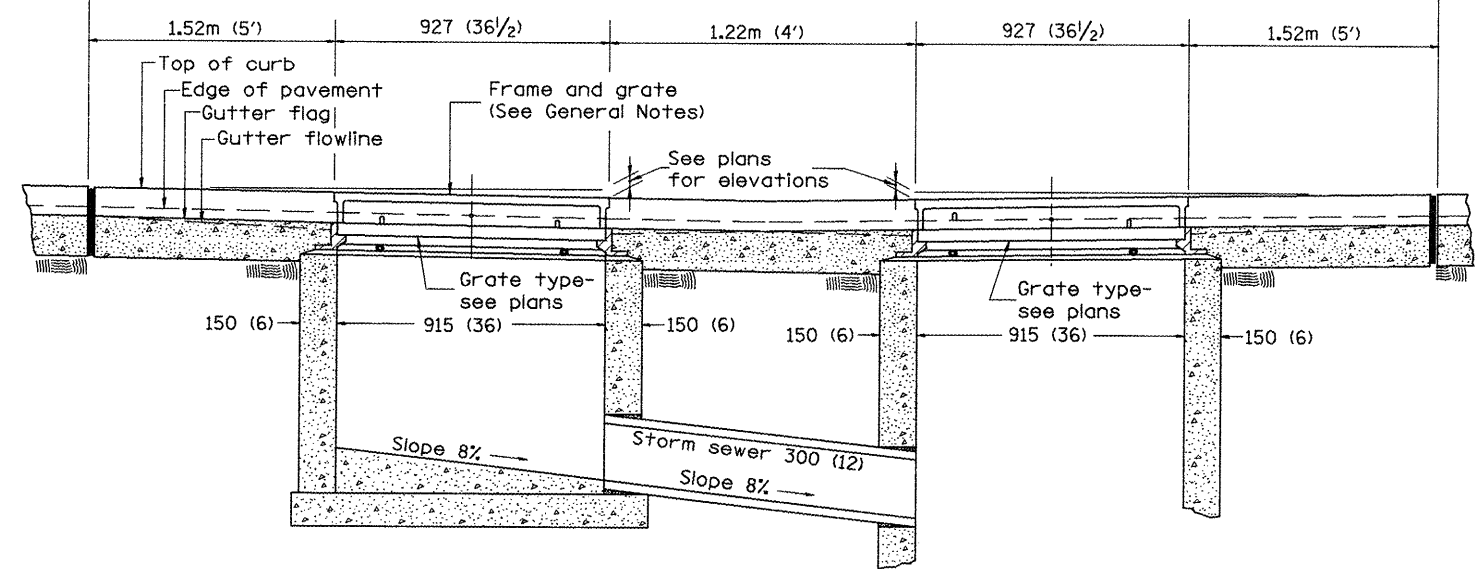
CONTRACT NO. 68114				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	172
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



ELEVATION (SIDE)



FRONT ELEVATION

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

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

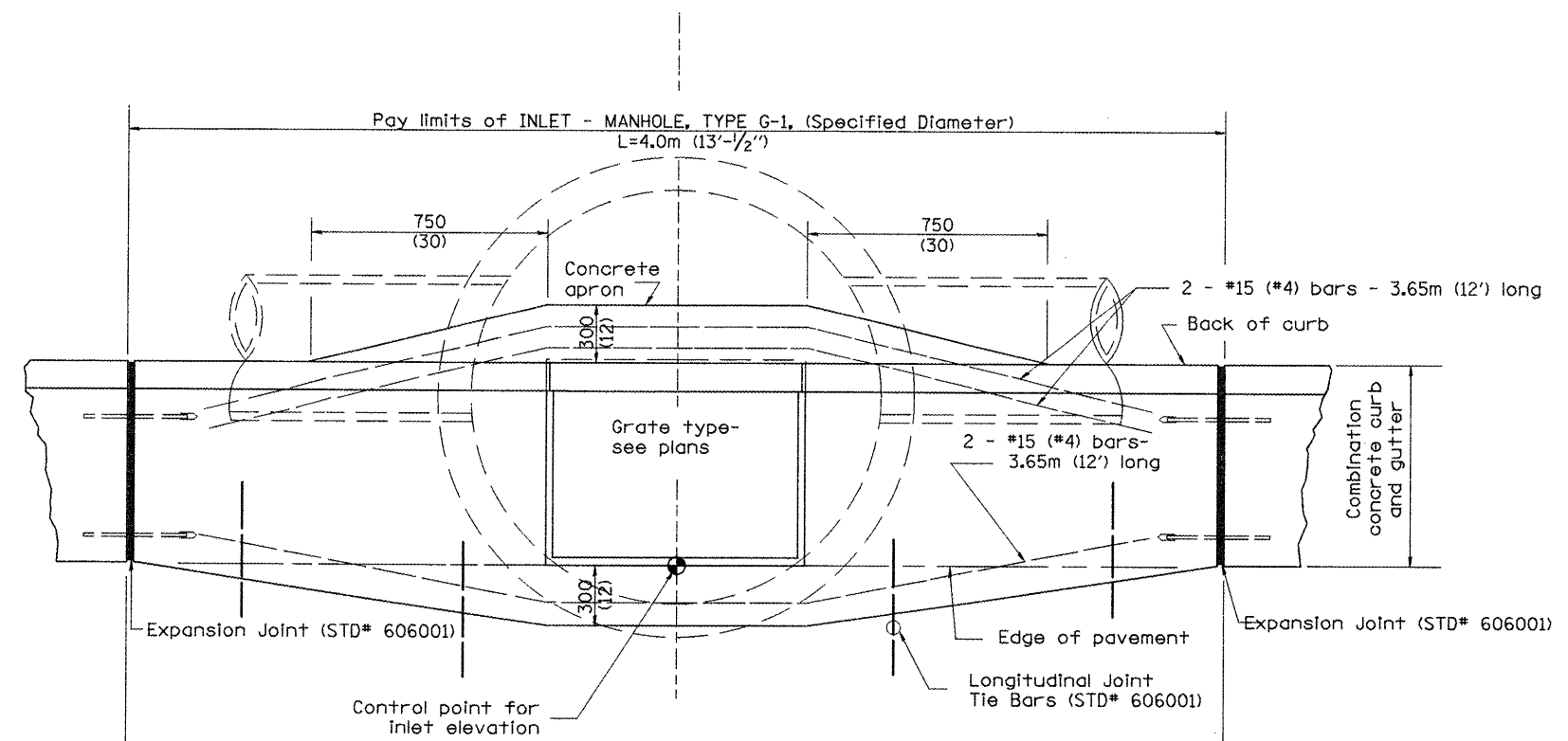
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
INLETS, TYPE G-1 DOUBLE, SPECIAL	
CADD STANDARD 602016-D4	DRAWN BY CADD
SCALE NOT TO SCALE	CHECKED BY

DATE	BY
1-1-97	RENUM. B-4.04, NEW REVISION BOX T.P.
4-1-97	CORRECT DIMENSIONS J.A.
10-99	REVISION TO GENERAL NOTES J.A.

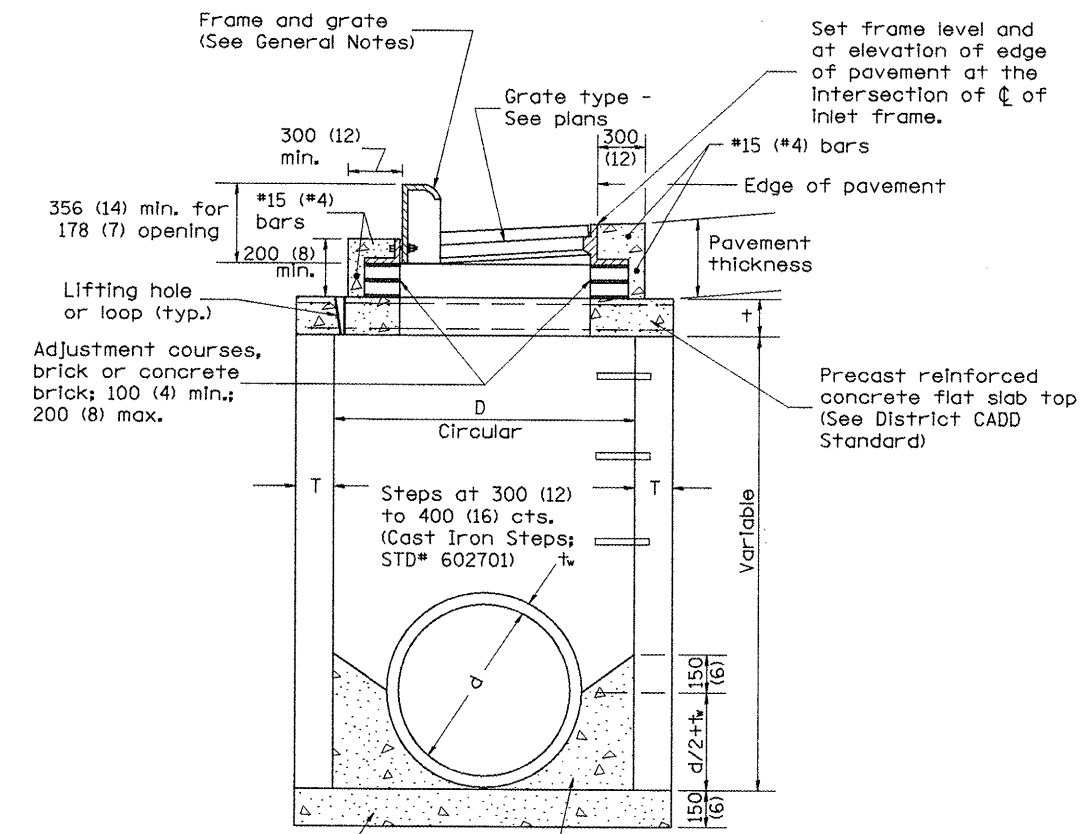
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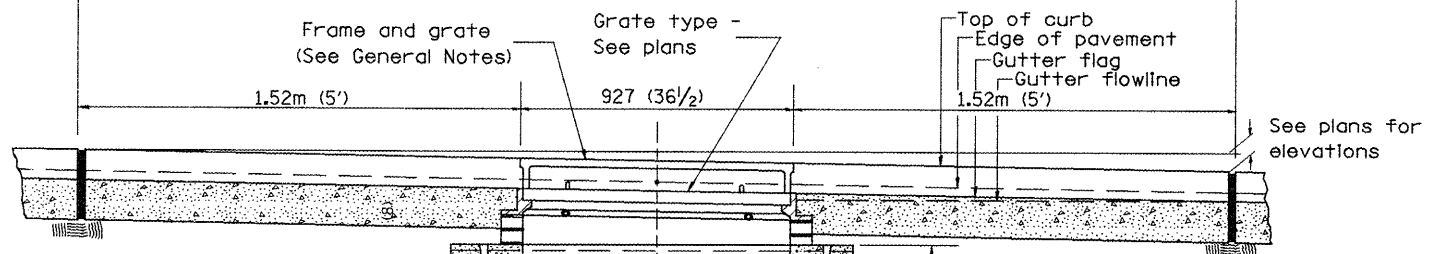
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	173
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



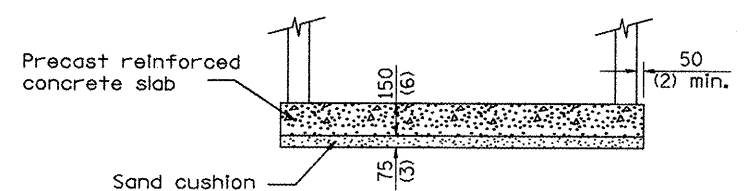
PLAN



ELEVATION (SIDE)



ELEVATION (FRONT)



ALTERNATE BOTTOM SLAB

TABLE

D	T	+
1.2m (4')	125 (5)	150 (6)
1.5m (5')	150 (6)	200 (8)
1.8m (6')	195 (7 3/4)	200 (8)
2.4m (8')	225 (9)	250 (10)

GENERAL NOTES

- Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
- Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
- See District CADD Standard 604001-D4 for frame and grates.
- See District CADD Standard for precast reinforced concrete flat slab top.

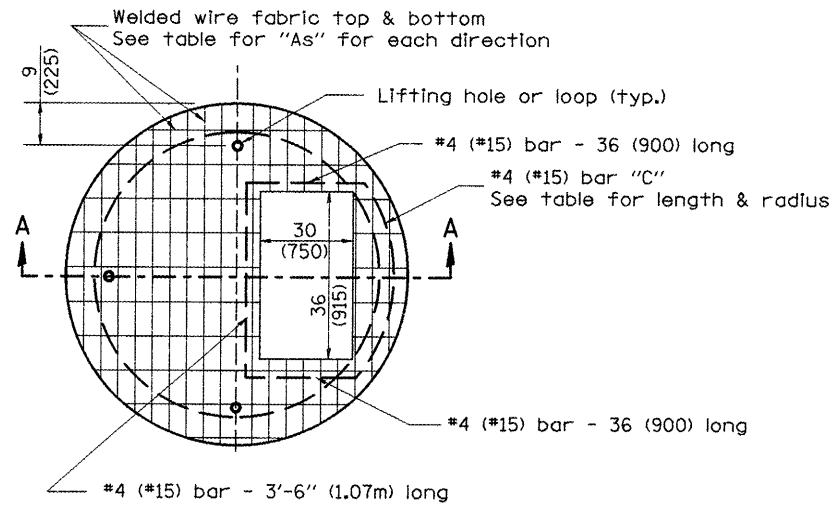
All dimensions are in millimeters (Inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD
INLET-MANHOLE, TYPE G-1
 CADD STANDARD 602021-D4
 SCALE NOT TO SCALE
 DRAWN BY CADD
 CHECKED BY

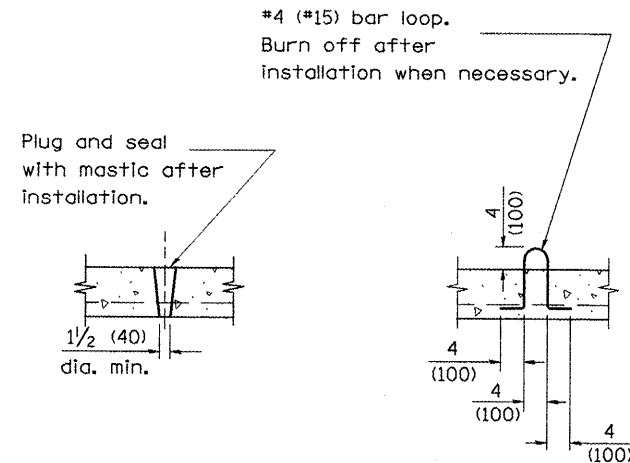
DATE	REVISIONS	BY
1-1-97	RENUM. B-4.05, NEW REVISION BOX	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.
2-00	REVISION TO DESIGNER NOTES	J.A.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	174
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

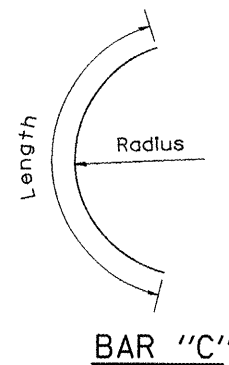


PLAN



LIFTING HOLE OR LIFTING LOOP
TYPICAL

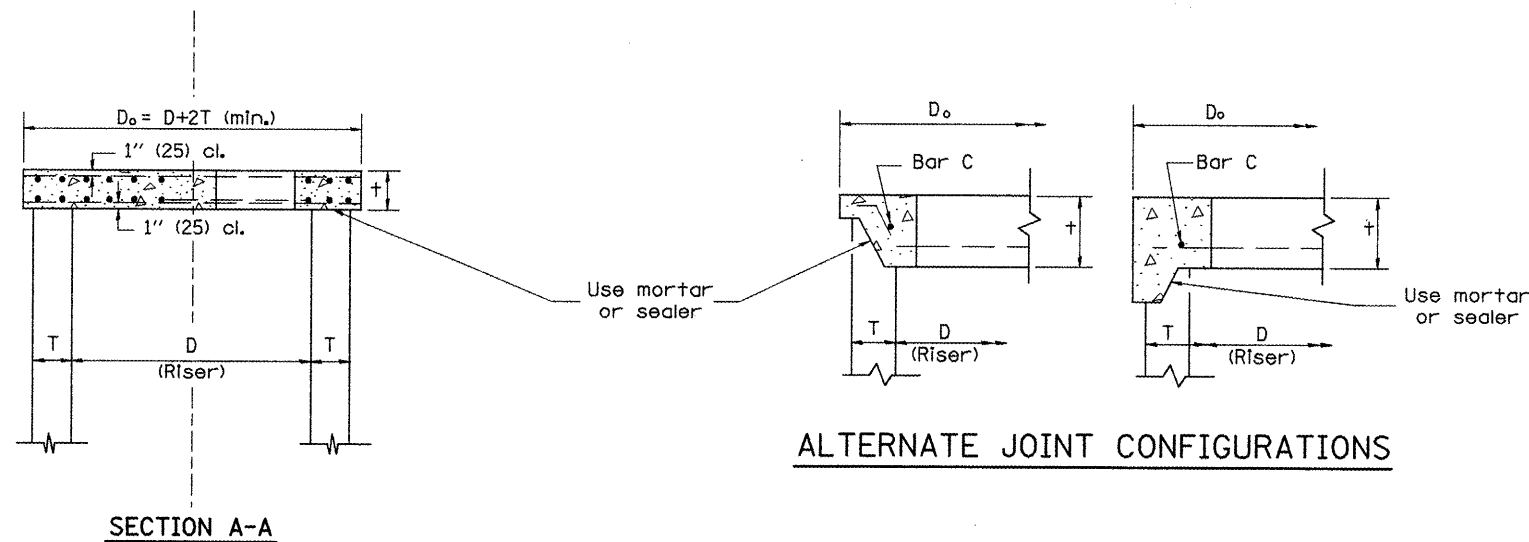
(3 required per slab)



BAR "C"

TABLE

D	T	D _o (min.)	t	Reinforcement "As" W.W.F. each direction	Bar size	No. 15 (No. 4) Bar C Length Radius
4' (1.2m)	5 (125)	4'-10" (1.5m)	6 (150)	0.70 sq. inch/lin. ft. (1480mm 2/m)	No. 15 (No. 5)	1.35m (4'-6") 660 (26)
5' (1.5m)	6 (150)	6'-0" (1.8m)	8 (200)	0.70 sq. inch/lin. ft. (1480mm 2/m)	No. 15 (No. 5)	1.5m (5'-0") 810 (32)
6' (1.8m)	7 3/4 (195)	7'-3 1/2" (2.2m)	8 (200)	0.88 sq. inch/lin. ft. (1860mm 2/m)	No. 20 (No. 6)	1.8m (6'-0") 965 (38)
8' (2.4m)	9 (225)	9'-6" (2.9m)	10 (250)	0.88 sq. inch/lin. ft. (1860mm 2/m)	No. 20 (No. 6)	2.3m (7'-6") 1.27m (4'-2")



ALTERNATE JOINT CONFIGURATIONS

SECTION A-A

GENERAL NOTES

- The precast reinforced concrete flat slab top shall be used with INLET-MANHOLE, TYPE G-1 and INLET-MANHOLE, TYPE G-1, SPECIAL.
- Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.
- Lifting devices shall be approved by the Engineer.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

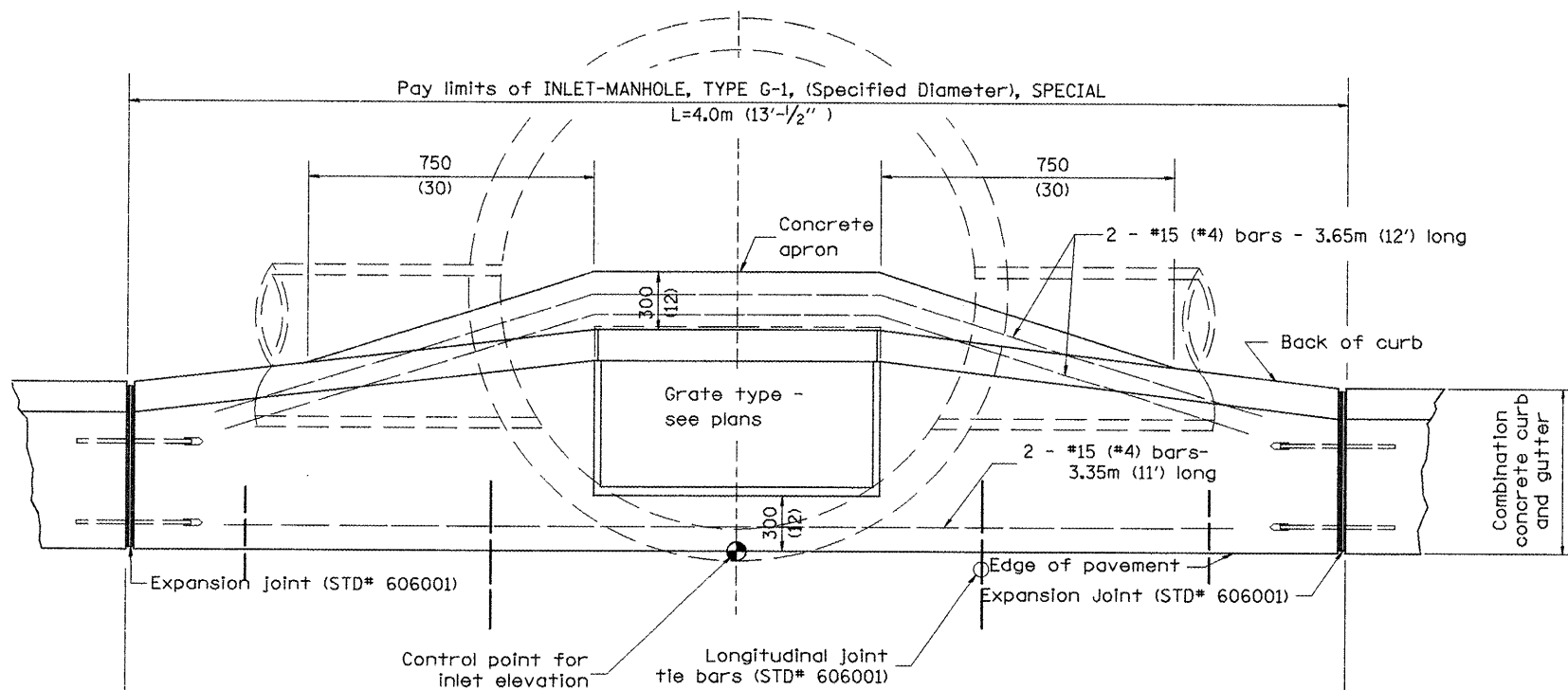
PRECAST REINFORCED CONCRETE
FLAT SLAB TOP FOR
INLET-MANHOLE, TYPE G-1 AND
TYPE G-1, SPECIAL

CADD STANDARD 602101-D4

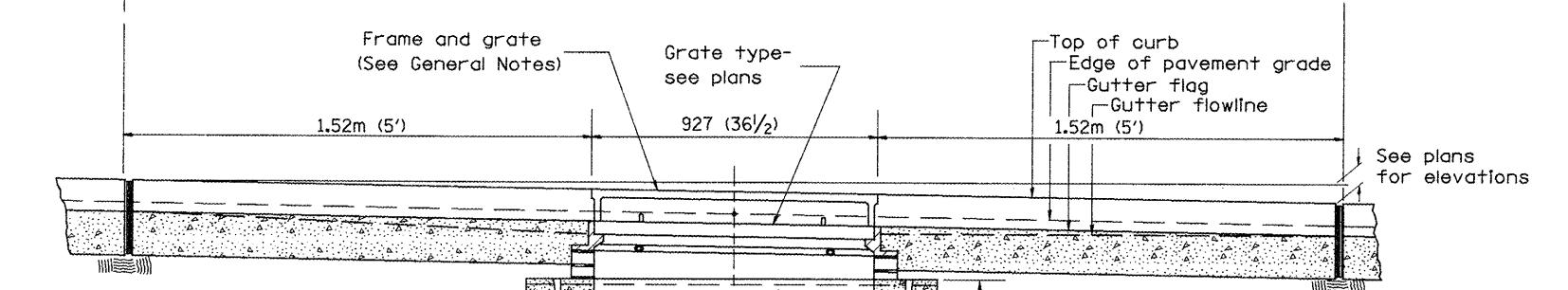
SCALE NOT TO SCALE
DRAWN BY CADD
CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.07, NEW REVISION BOX	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

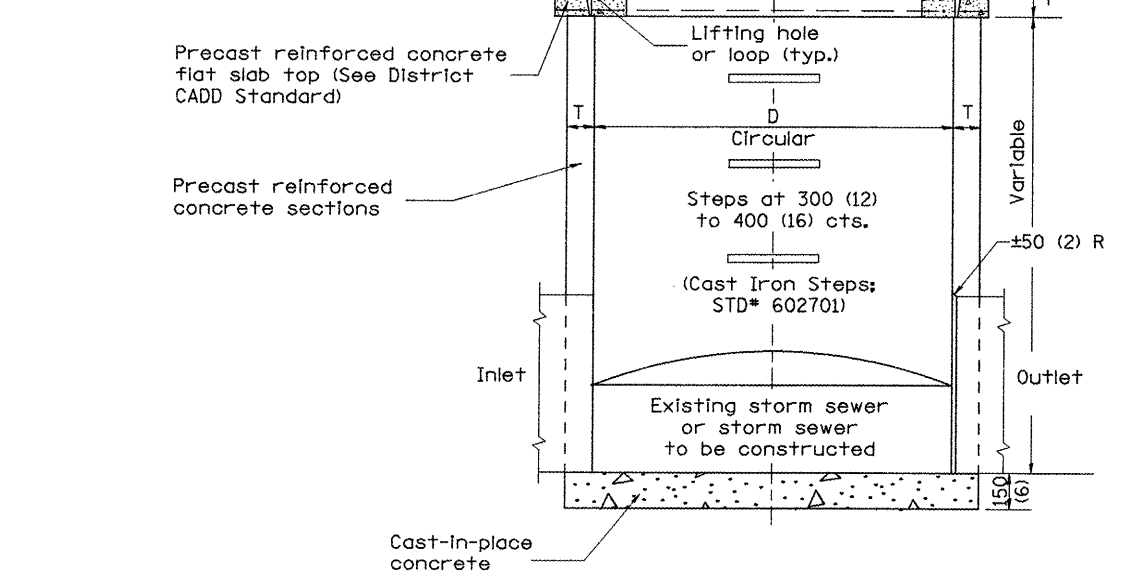
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	175
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



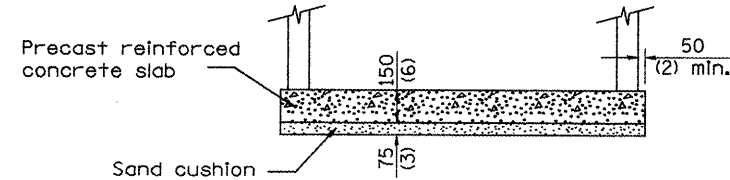
PLAN



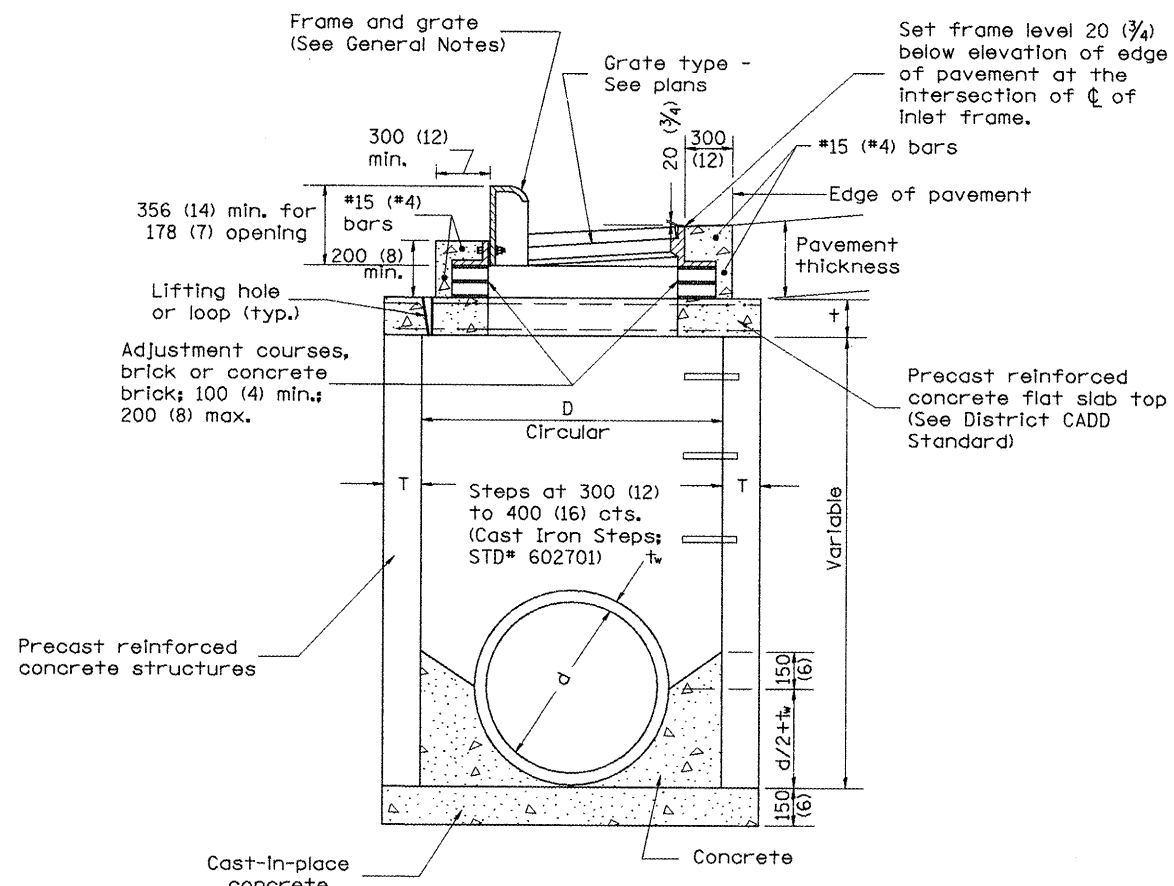
ELEVATION (SIDE)



ELEVATION (FRONT)



ALTERNATE BOTTOM SLAB



ELEVATION (SIDE)

TABLE

D	T	+
1.2m (4')	125 (5)	150 (6)
1.5m (5')	150 (6)	200 (8)
1.8m (6')	195 (7 3/4)	200 (8)
2.4m (8')	225 (9)	250 (10)

GENERAL NOTES

1. Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.
4. See District CADD Standard for precast reinforced concrete flat slab top.

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

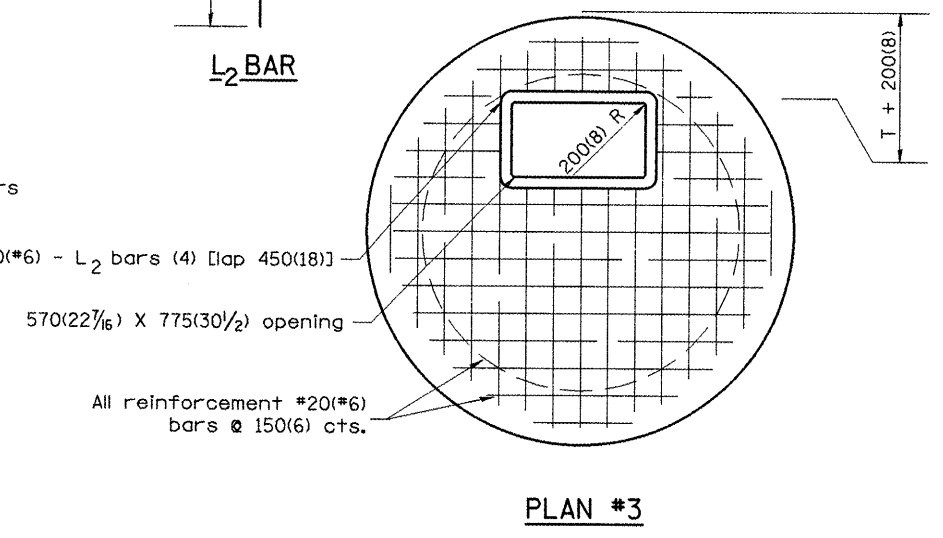
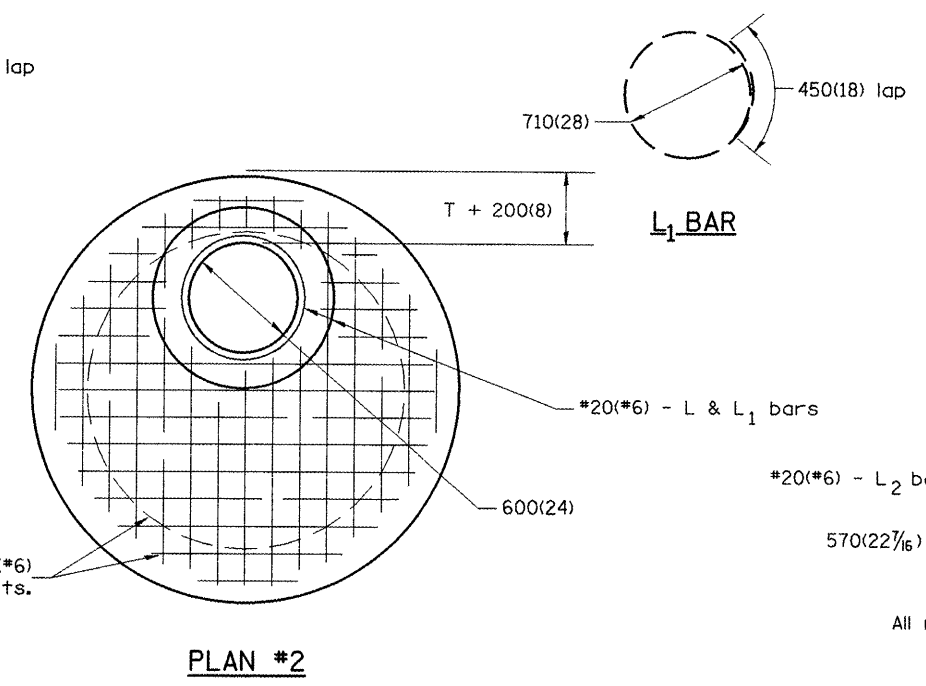
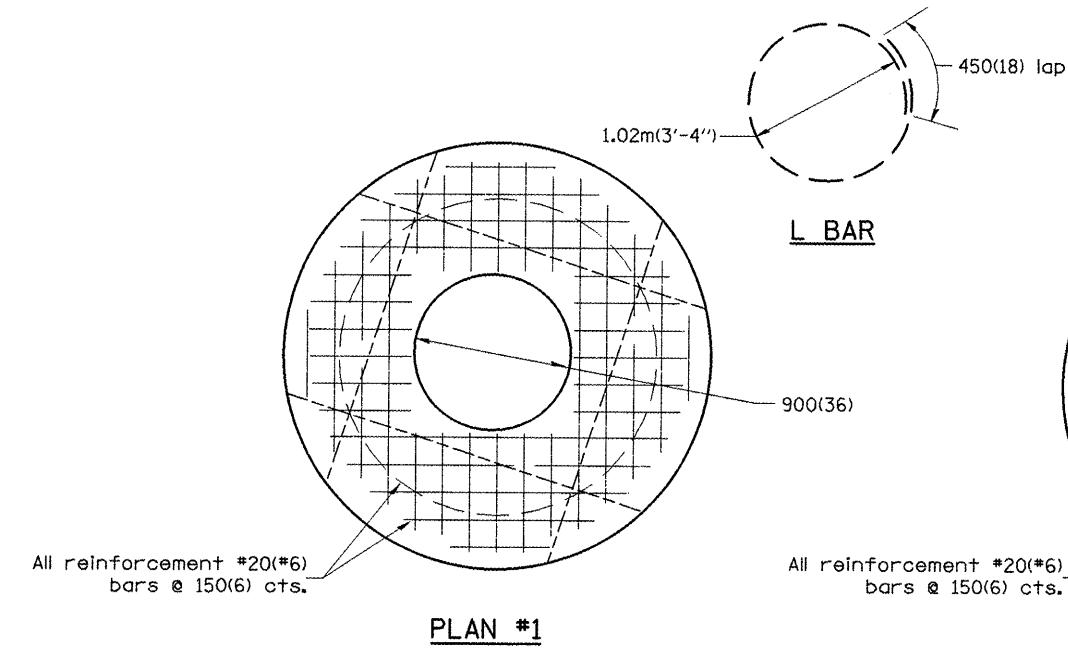
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
INLET-MANHOLE, TYPE G-1, SPECIAL
 CADD STANDARD 602026-D4
 SCALE NOT TO SCALE
 DRAWN BY CADD
 CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.06, NEW REVISION BOX	T.P.
12-1-98	CORRECT E. O. P. NOTE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.

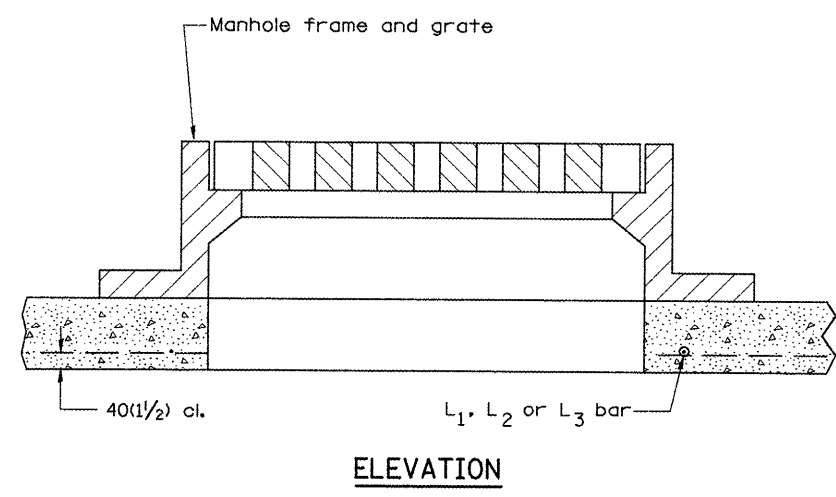
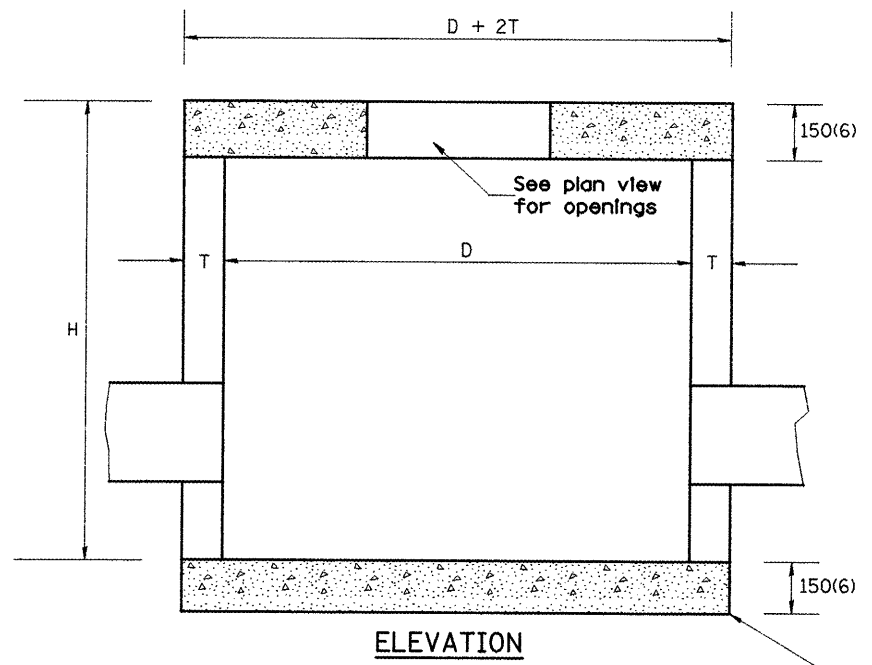
\$\$\$DATE\$\$\$

DGN-ONLY

CONTRACT NO. 68114				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	176
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



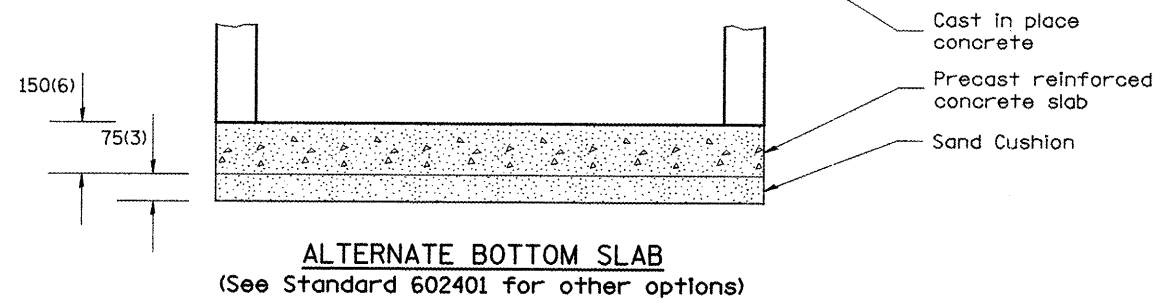
ALTERNATES: FLAT SLAB TOP



ALTERNATE MATERIALS FOR WALLS	D	T (min.)
CONCRETE MASONRY UNITS	1.2m (4')	125 (5)
	1.5m (5')	125 (5)
BRICK MASONRY	1.2m (4')	200 (8)
	1.5m (5')	200 (8)
PRECAST REINFORCED CONCRETE RISERS	1.2m (4')	100 (4)
	1.5m (5')	125 (5)
CAST-IN-PLACE CONCRETE	1.2m (4')	150 (6)
	1.5m (5')	150 (6)

NOTES

1. Manhole construction shall be in accordance with Section 602 of the Standard Specifications.
2. See Standards 602401 and 602406 for invert details and optional construction details.
3. See Standards 602701 for cast iron steps.



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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

MANHOLE, SPECIAL

CADD STANDARD 602501-D4
SCALE NOT TO SCALE

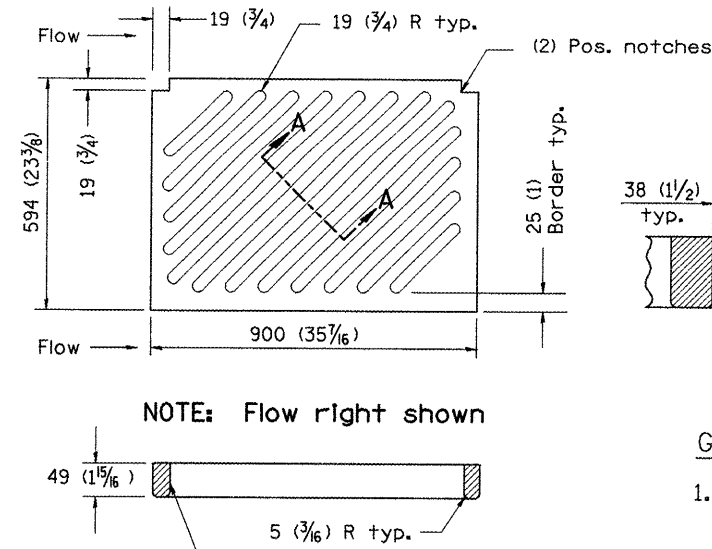
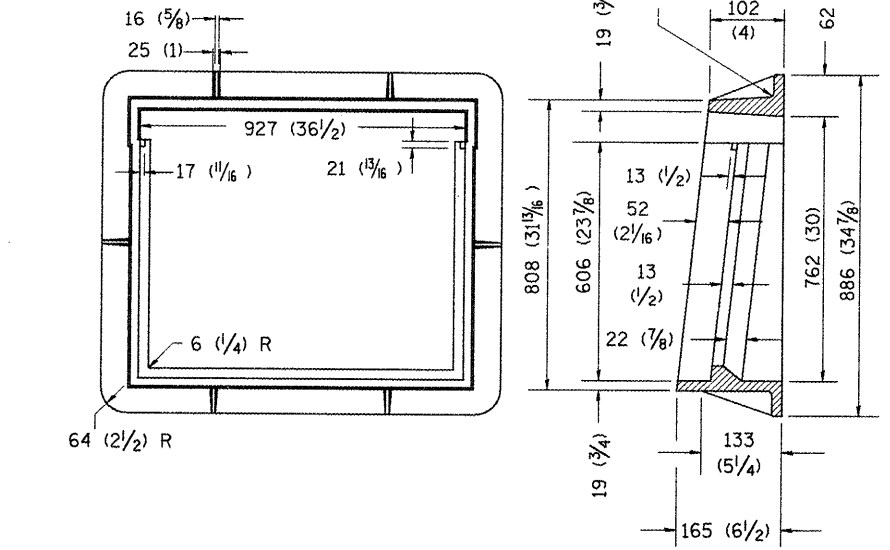
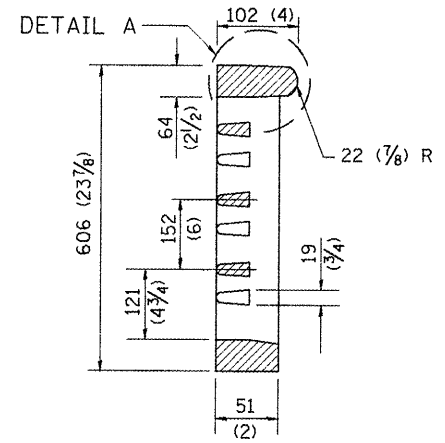
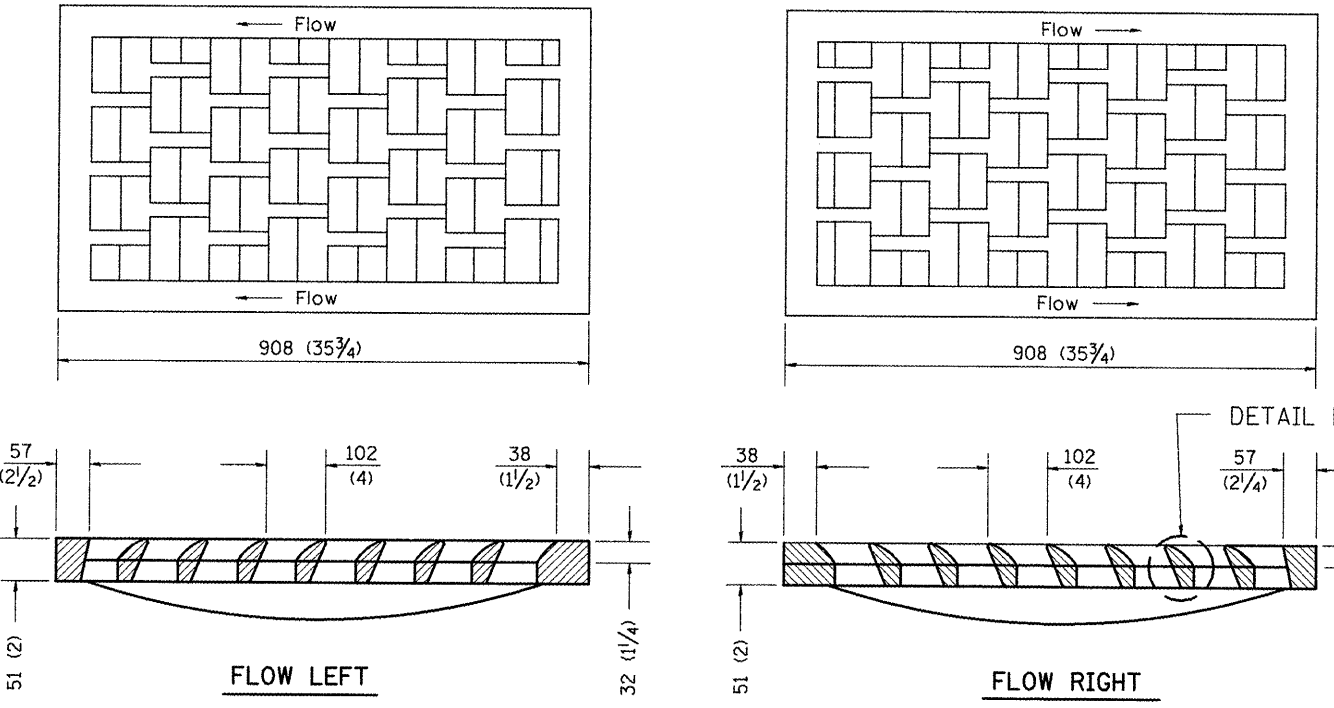
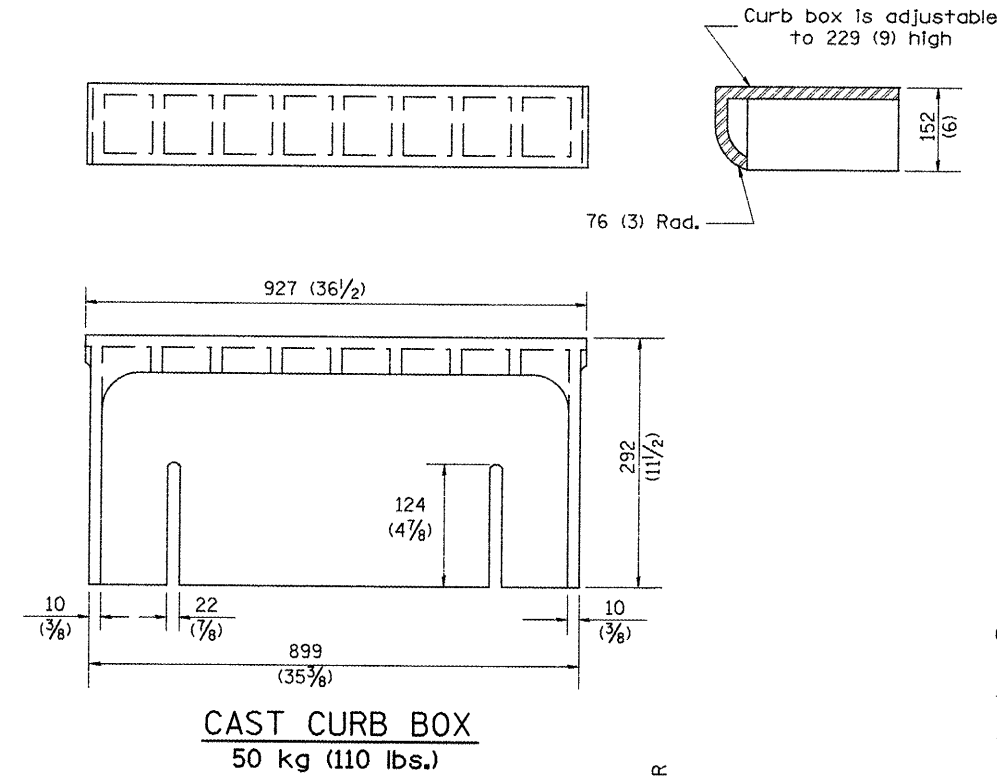
DRAWN BY CADD
CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. B-6.03, NEW REVISION BOX	T.P.

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

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	177
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- GENERAL NOTES**
- The frame and grate shown on this drawing are for use with all TYPE G-1 and TYPE G-1, SPECIAL DRAINAGE STRUCTURES. See plans for grate type and flow direction.
 - Flow direction: As viewed from street side.
 - Material: cast gray iron.

DATE	REVISIONS	BY
1-1-97	RENUM. B-10.01, NEW REVISION BOX	T.P.

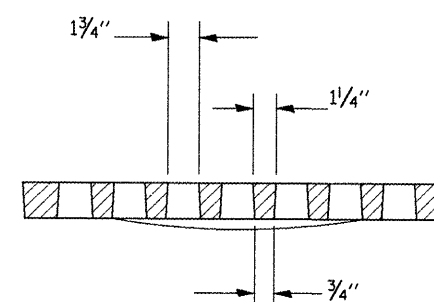
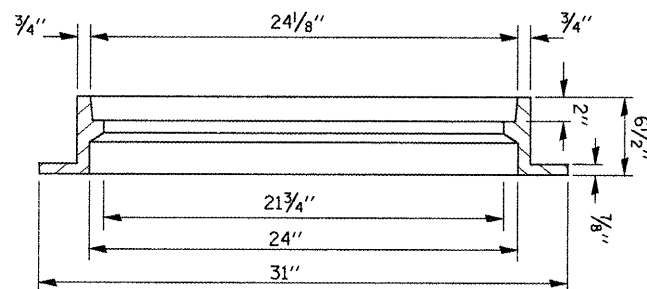
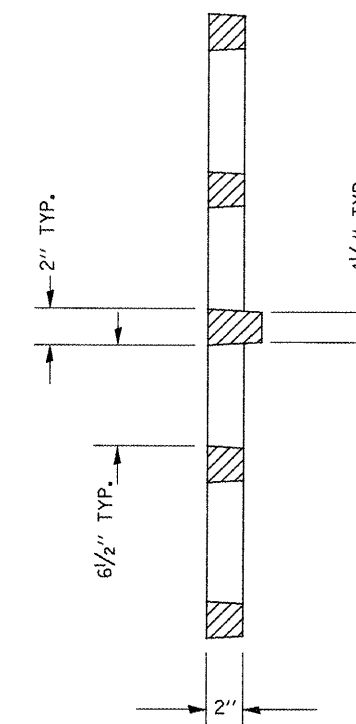
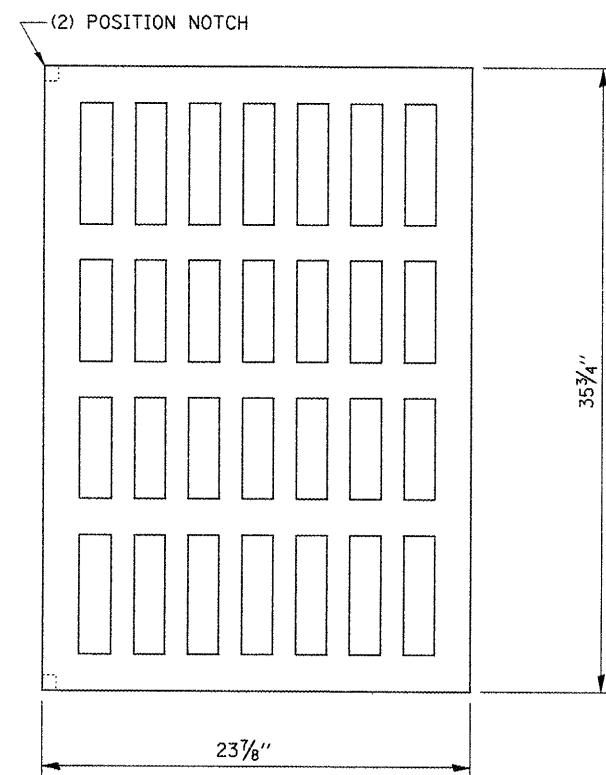
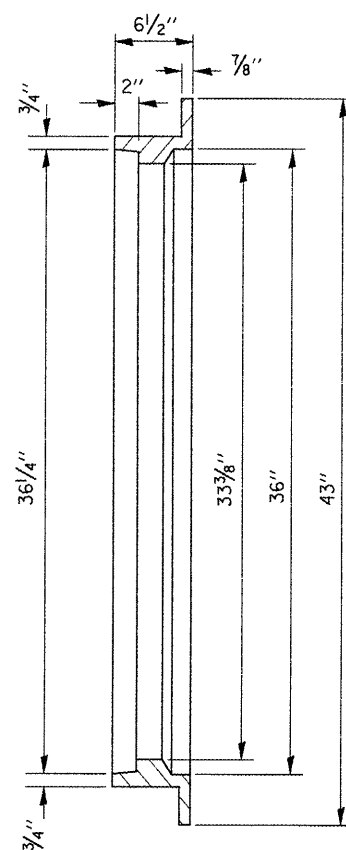
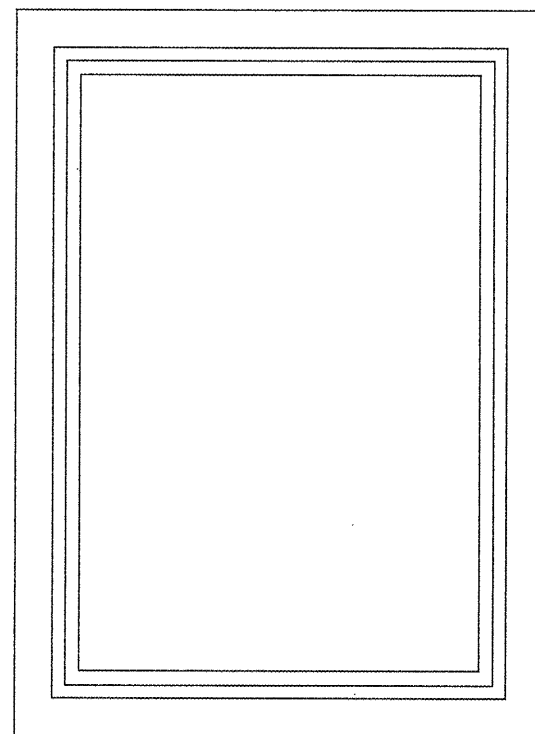
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
FRAME AND GRATES FOR
TYPE G-1 AND TYPE G-1, SPECIAL
DRAINAGE STRUCTURES
CADD STANDARD 604001-D4
SCALE NOT TO SCALE
DRAWN BY CADD
CHECKED BY

DATE

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	178
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

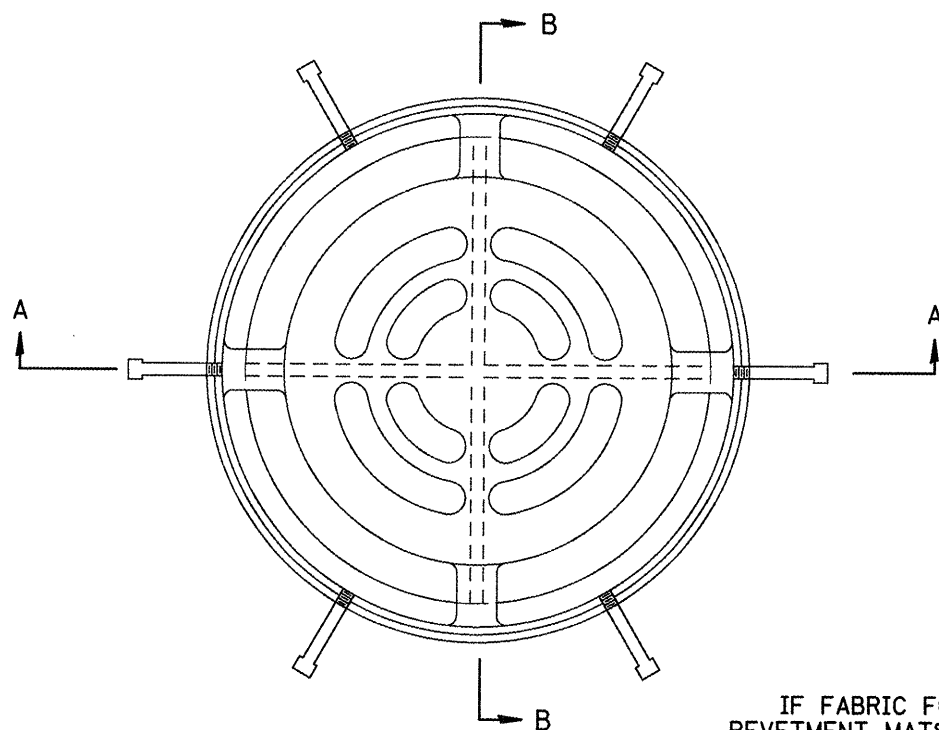
DGN-ONLY

DATE	REVISIONS	BY
10-99	NEW STANDARD	J.A.
2-00	ADD NOTE & DESIGNER NOTES	J.A.

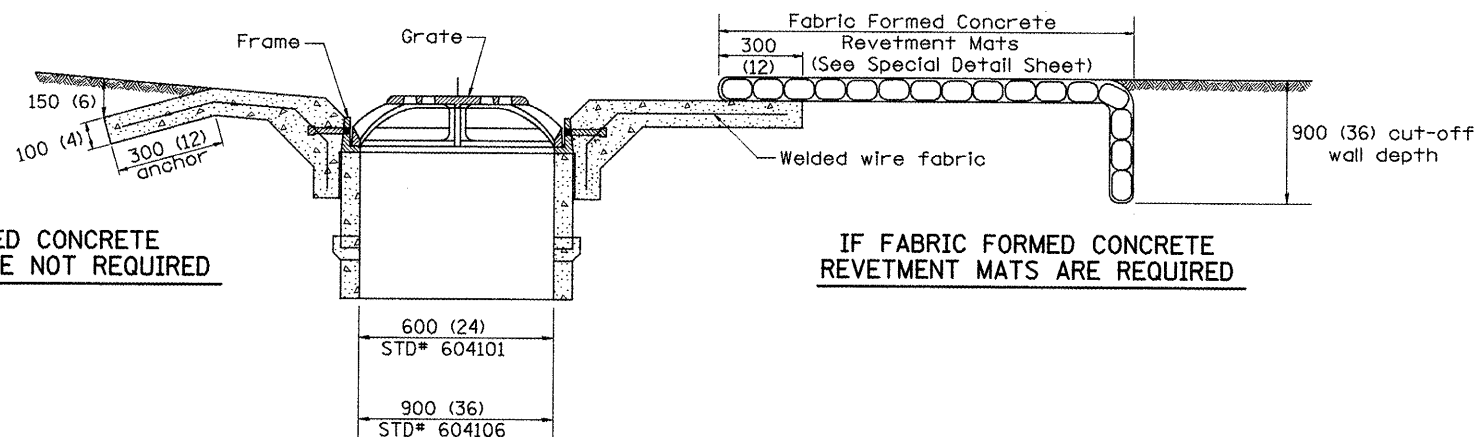
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD
 FRAME AND GRATES FOR
 TYPE G-2
 DRAINAGE STRUCTURES
 CADD STANDARD 604002-D4
 SCALE NOT TO SCALE

DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	179
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



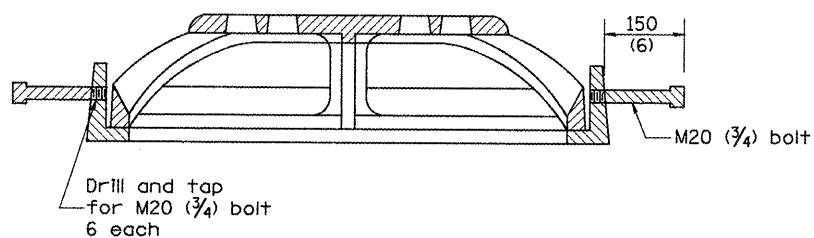
PLAN
(STD# 604101 & 604106)



IF FABRIC FORMED CONCRETE REVETMENT MATS ARE NOT REQUIRED

IF FABRIC FORMED CONCRETE REVETMENT MATS ARE REQUIRED

SECTION B-B
(STD# 604101 & 604106)



SECTION A-A
(STD# 604101 & 604106)

GENERAL NOTES

- The applicable portions of Highway Standards 604101 and/or 604106 shall apply, except as noted herein.

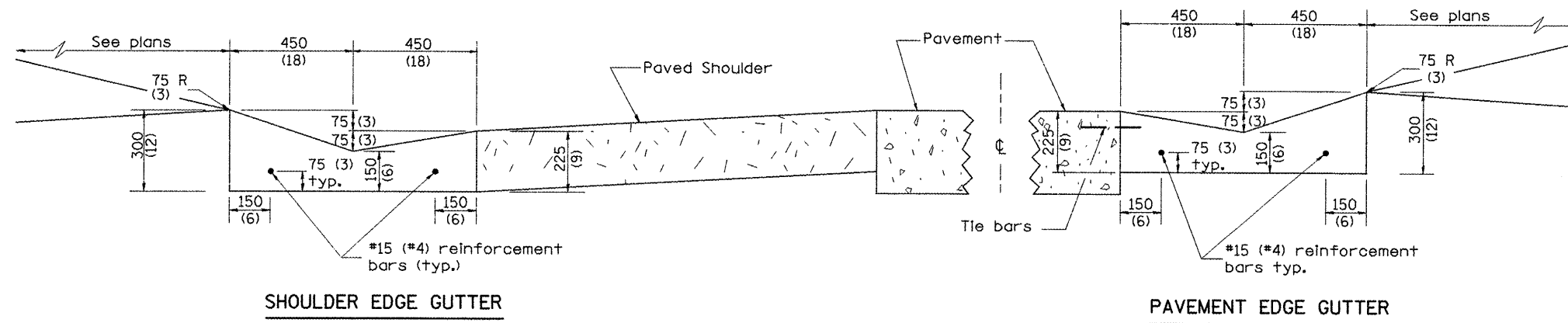
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
MEDIAN INLET (604101), SPECIAL AND MEDIAN INLET (604106), SPECIAL	
CADD STANDARD 604101-D4	DRAWN BY CADD
SCALE NOT TO SCALE	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.09, NEW REVISION BOX, REVISED DESIGNER NOTES.	T.P.

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

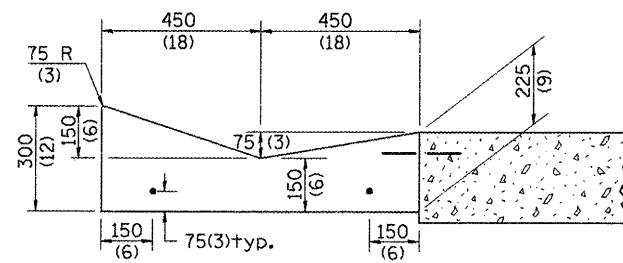
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2+ RS-5	FULTON	282	180
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



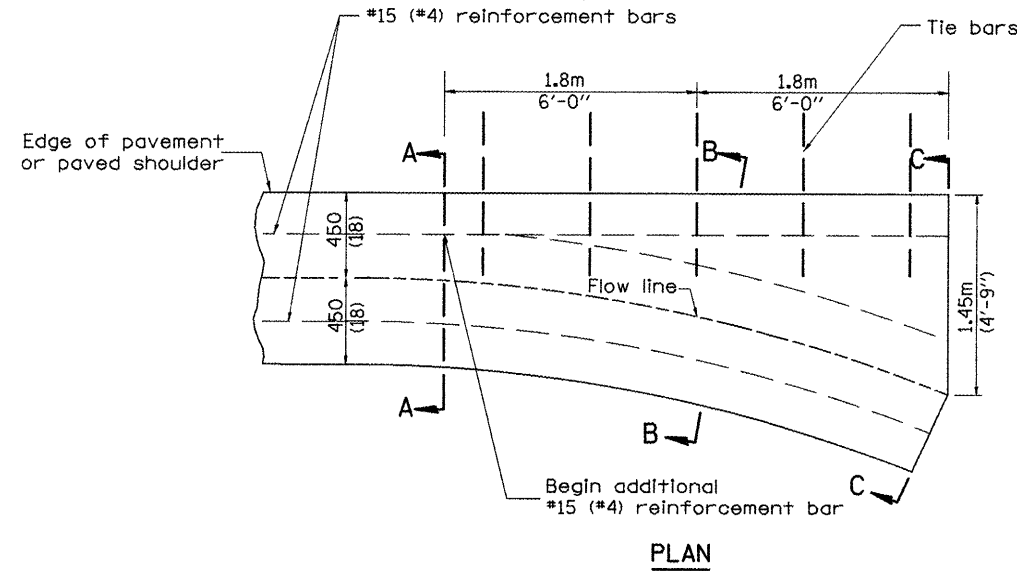
SHOULDER EDGE GUTTER

PAVEMENT EDGE GUTTER

TYPE A GUTTER (MODIFIED)



SECTION A-A

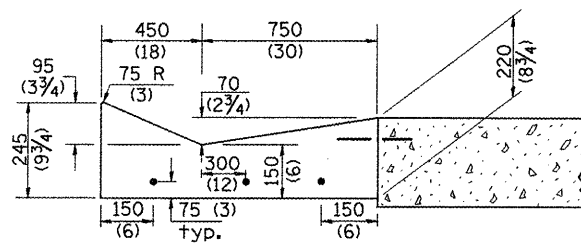


PLAN

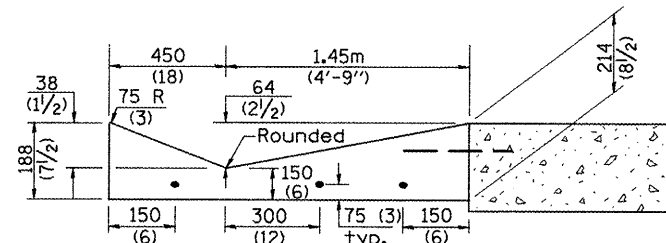
QUANTITY
Section C-C to A-A
m³ (cu. yd.) concrete.

GENERAL NOTES:

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



SECTION B-B



SECTION C-C

INLET

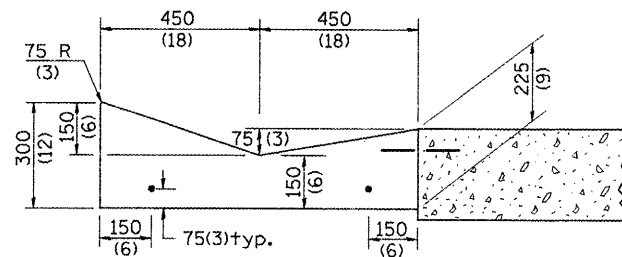
All dimensions are in millimeters (inches) unless otherwise noted.

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

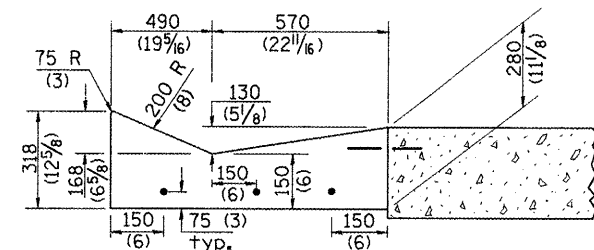
DATE	REVISIONS	BY
1-1-97	RENUM. A-1.02, NEW REVISION	T.P.
	BOX, ELIMINATED EXPANSION	
	ANCHOR TIES.	
2-28-02	ENTRANCE TYPICALS REVISED	M.A.

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

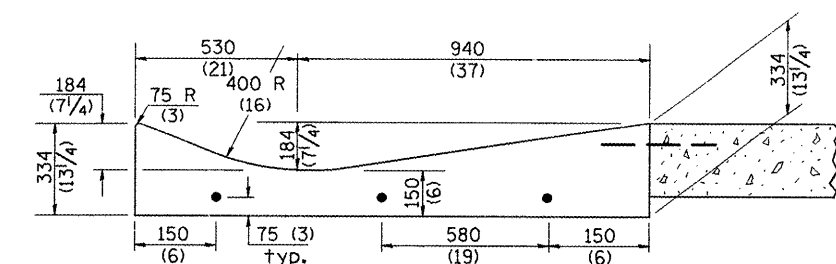
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	181
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



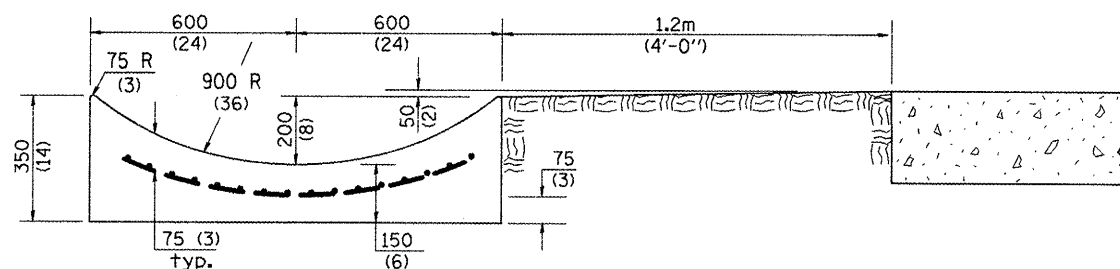
SECTION A-A



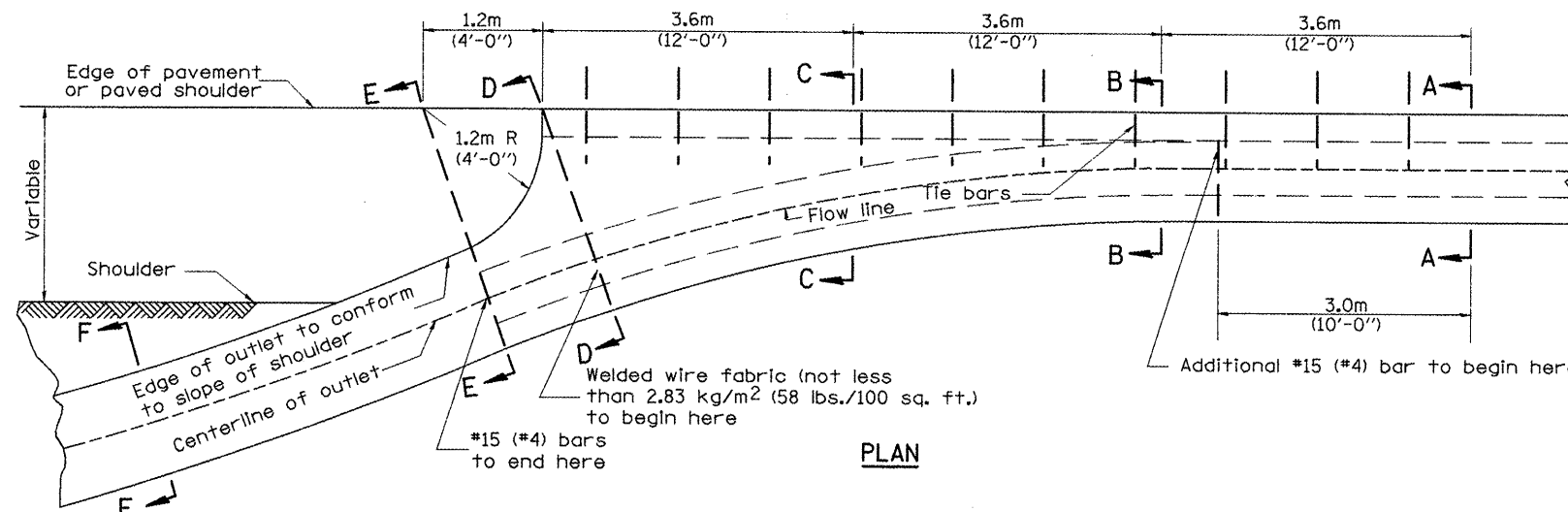
SECTION B-B



SECTION C-C



SECTION E-E

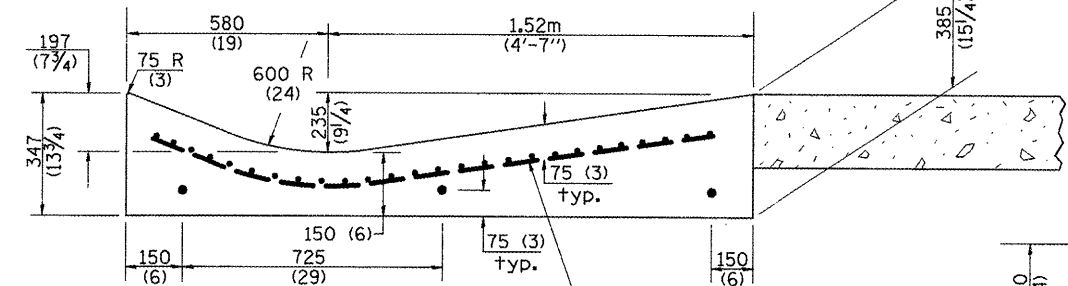


PLAN

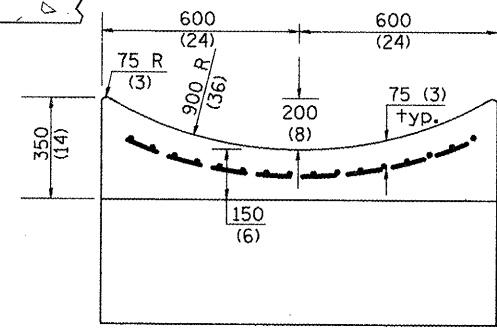
QUANTITY

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

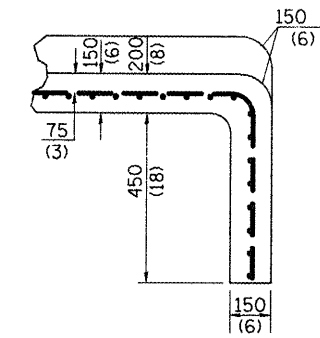
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 1.8 m (6 ft.) for each 1% increase in grade. A quantity adjustment is required.



SECTION D-D



SECTION F-F



SECTIONS AT END OF OUTLET (CURTAIN WALL)

QUANTITY

Curtain Wall
 m³ (cu. yd.) concrete.

OUTLET

QUANTITIES

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

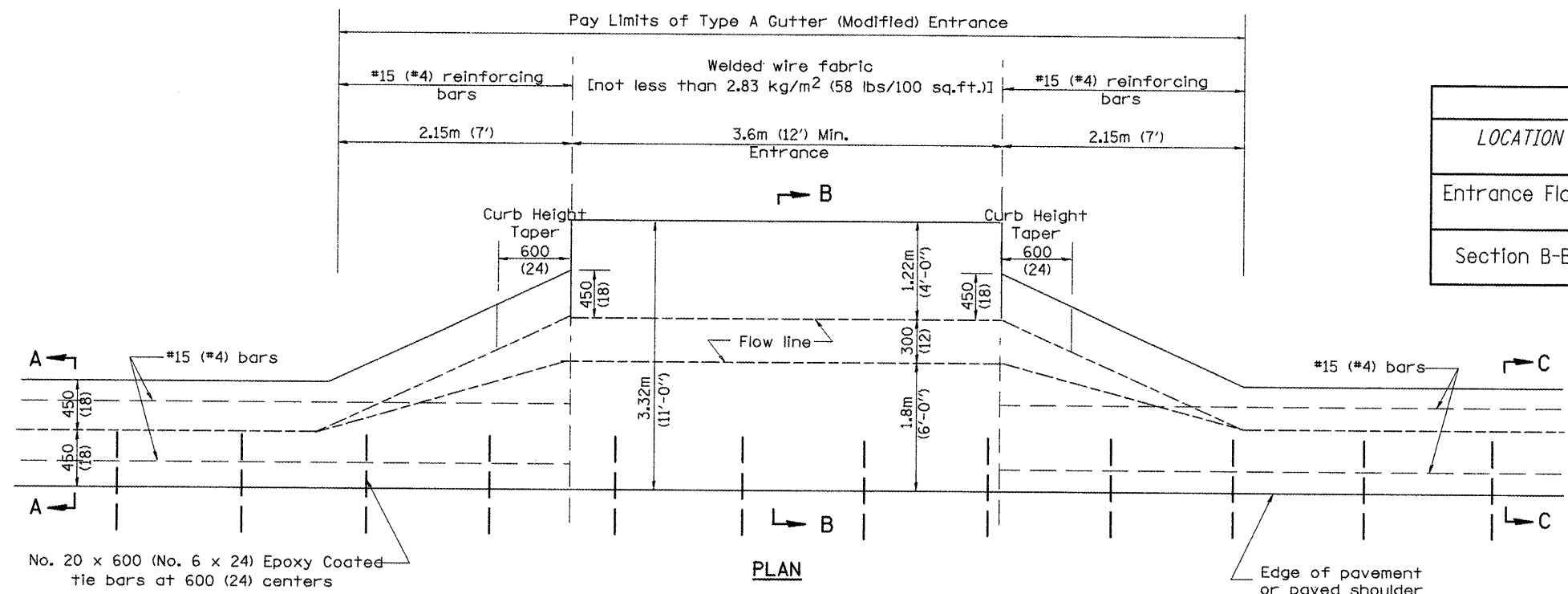
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE, BUREAU OF PROJECT IMPLEMENTATION, DOCUMENTATION SECTION

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

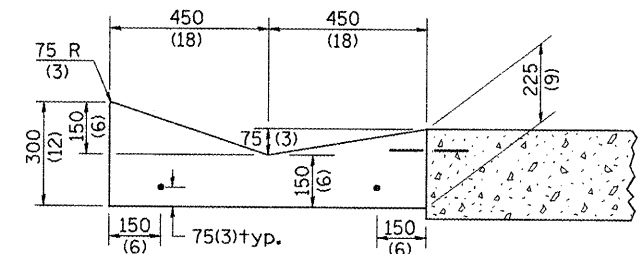
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPE A GUTTER, (MODIFIED)
(INLET, OUTLET & ENTRANCE)
 CADD STANDARD 606101-D4 SHEET 2 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2 RS-5	FULTON	282	182
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

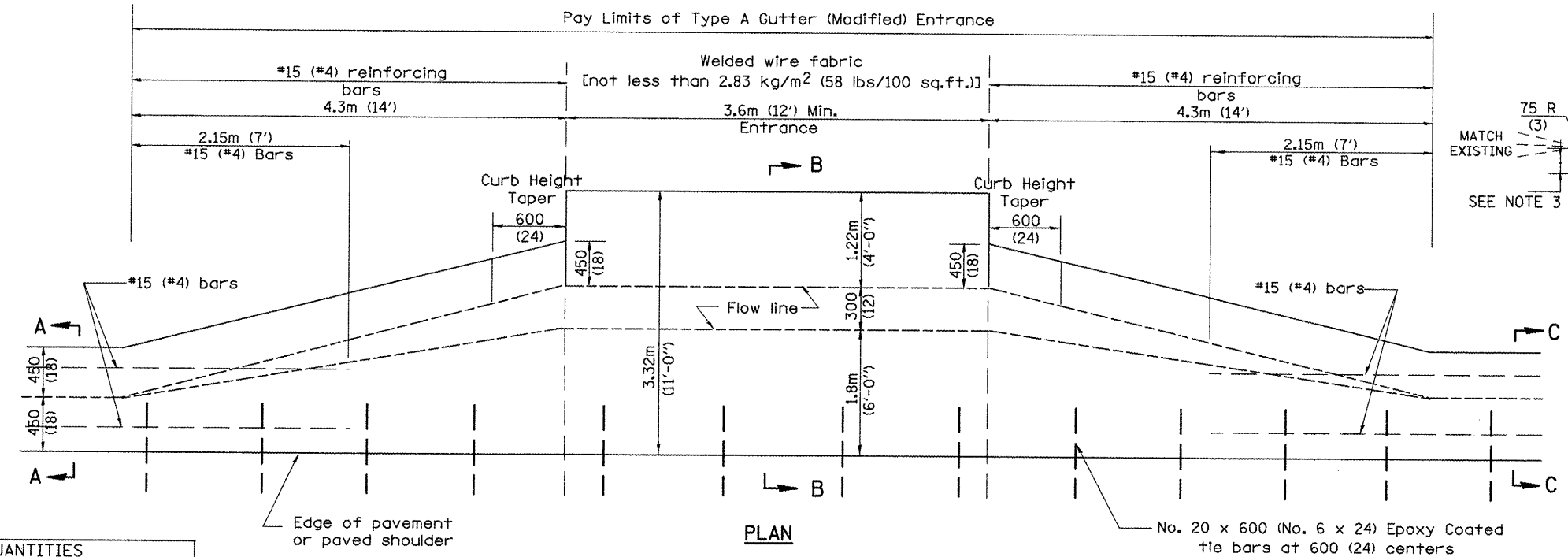
QUANTITY CALCULATION			
LOCATION	LENGTH	NON-COMMERCIAL	COMMERCIAL ENTRANCE
		150 (6)	200 (8)
Entrance Flare	2.15 m (7 Ft) Urban 4.30 m (14 Ft) Rural	0.37 Cu M / M (0.15 Cu Yd / Ft)	0.45 Cu M / M (0.18 Cu Yd / Ft)
Section B-B	See Plans	0.57 Cu M / M (0.23 Cu Yd / Ft)	0.70 Cu M / M (0.28 Cu Yd / Ft)



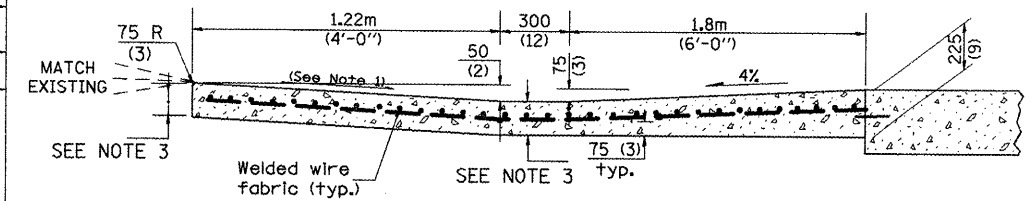
TYPICAL URBAN ENTRANCE



SECTION A-A & C-C



TYPICAL RURAL ENTRANCE



SECTION B-B

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

TYPE A GUTTER, (MODIFIED)

(INLET, OUTLET & ENTRANCE)

CADD STANDARD 606101-D4

SHEET 3 OF 3

SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD

CHECKED BY

QUANTITIES

CALC. BY: _____ DATE: _____

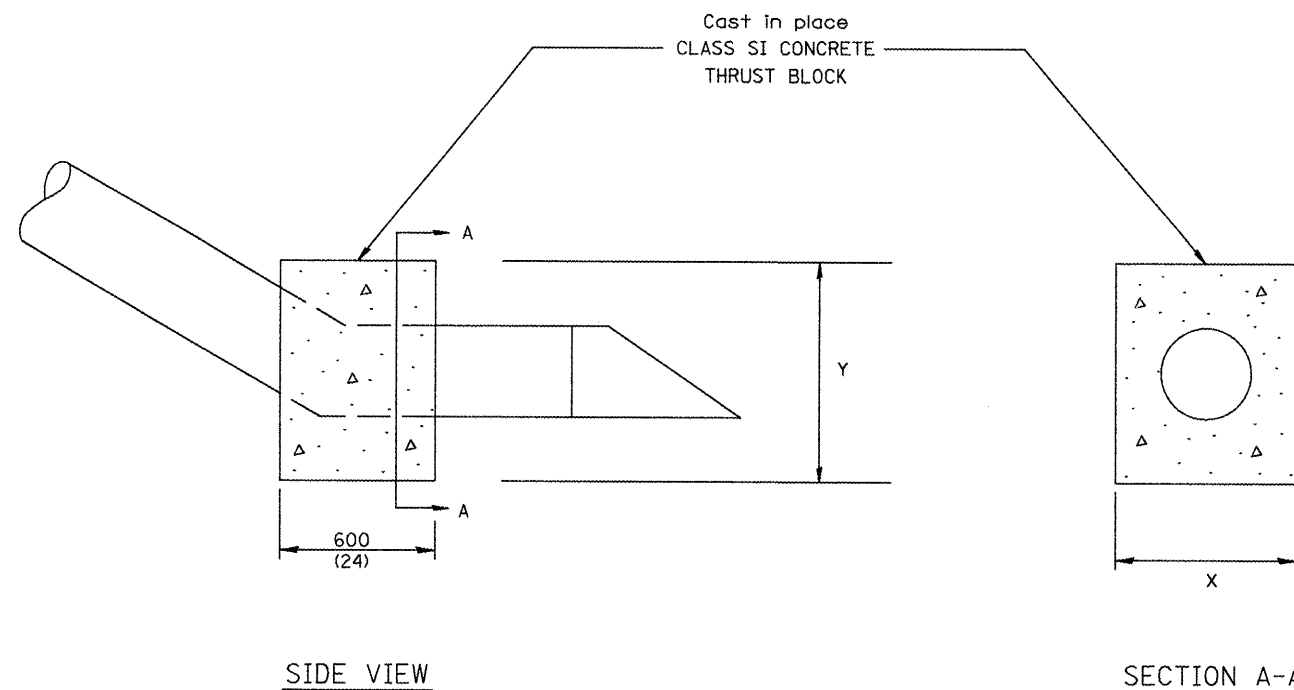
CHECKED BY: _____ DATE: _____

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	183
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONCRETE THRUST BLOCK BILL OF MATERIALS

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



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

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

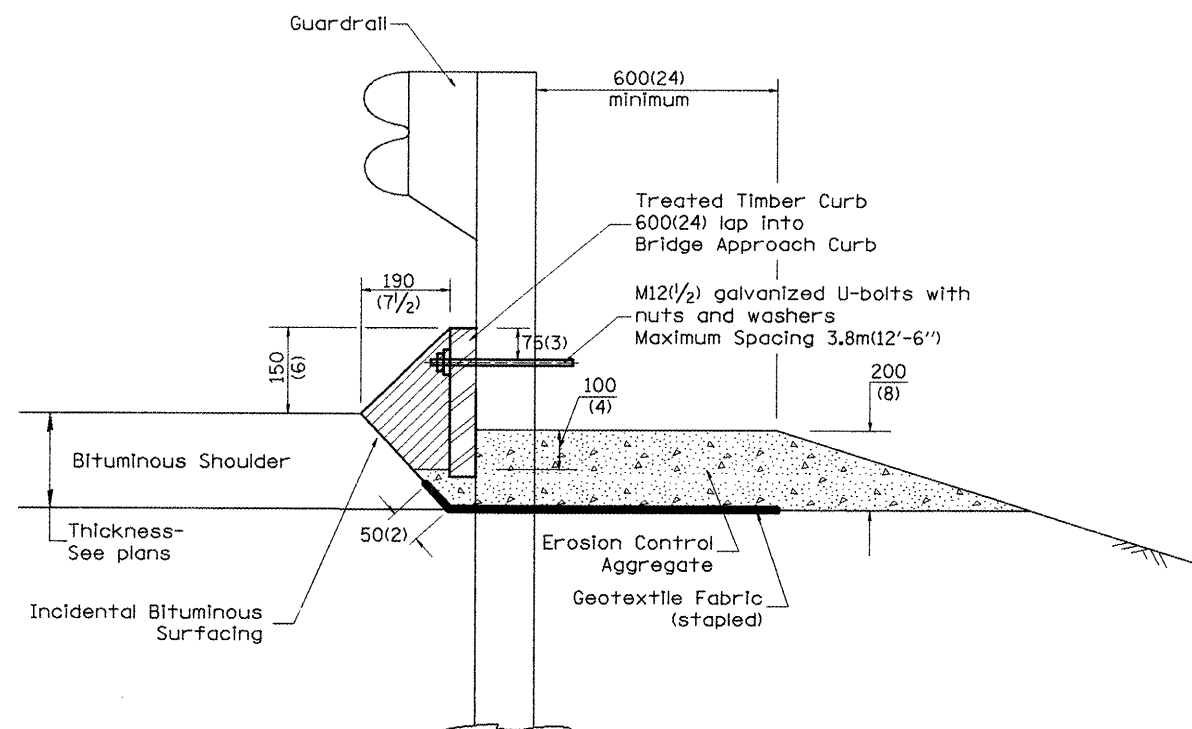
QUANTITIES	
CALC. BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE, BUREAU OF PROJECT IMPLEMENTATION, DOCUMENTATION SECTION	

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

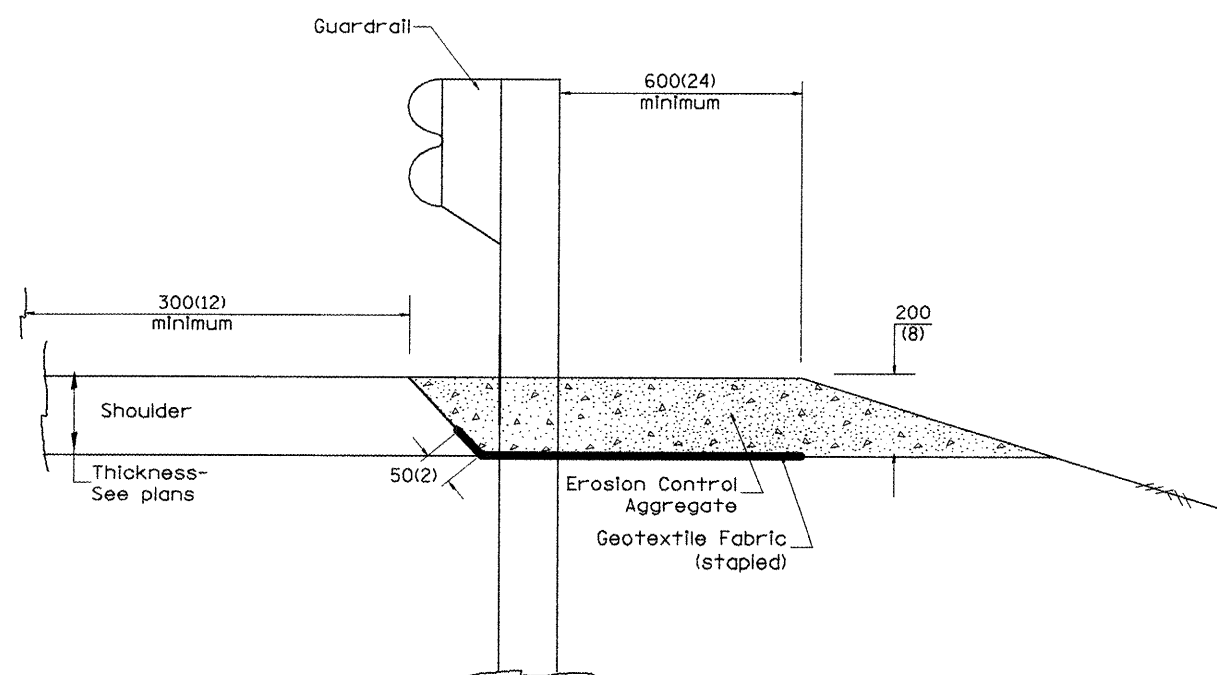
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
CONCRETE THRUST BLOCKS	
CADD STD. NO. 609001-04 SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD CHECKED BY _____

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2, RS-5	FULTON	282	184
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

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.

GUARDRAIL EROSION CONTROL TREATMENTS

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

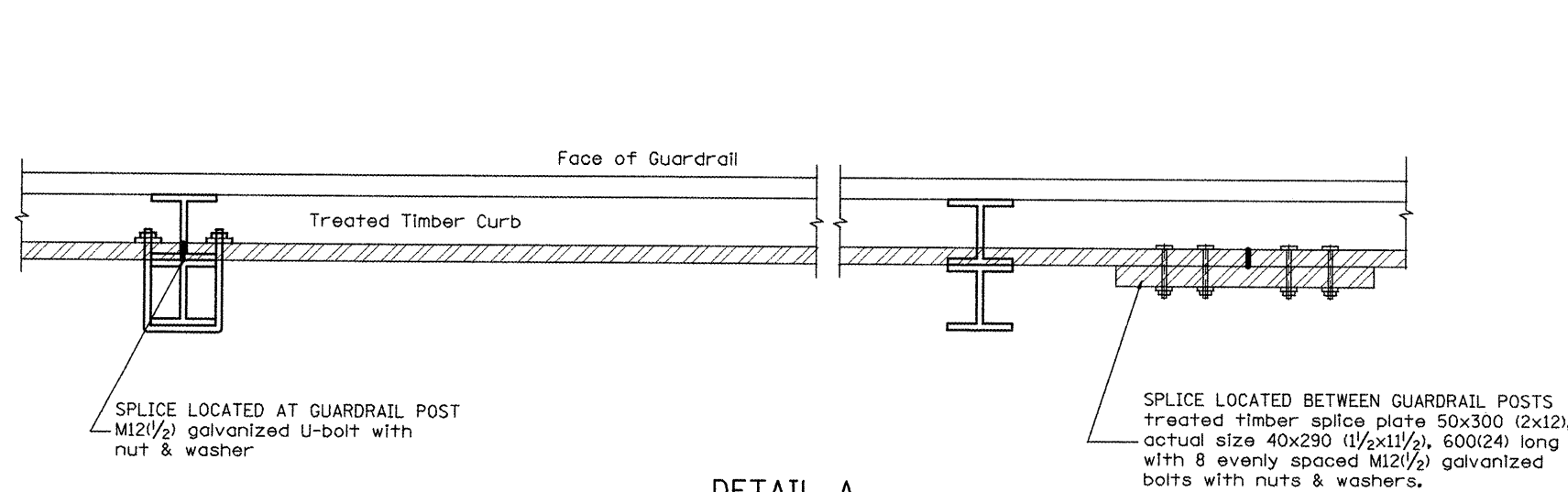
SHEET 1 OF 2
DRAWN BY CADD
CHECKED BY

630101-D4(1)

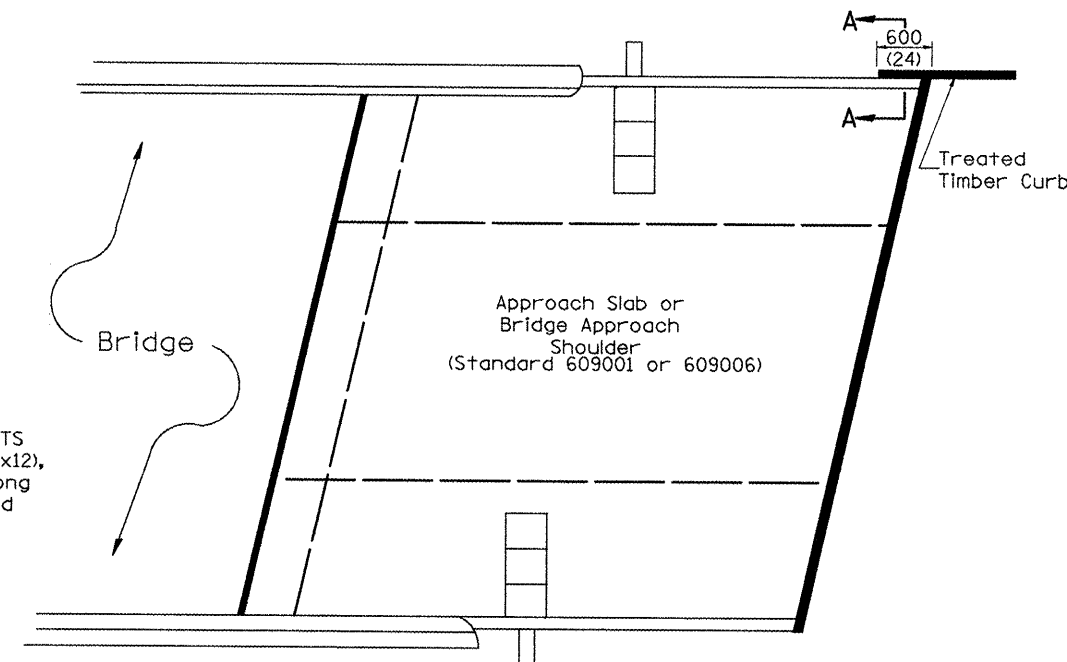
\$\$\$DATE\$\$\$

DGN-ONLY

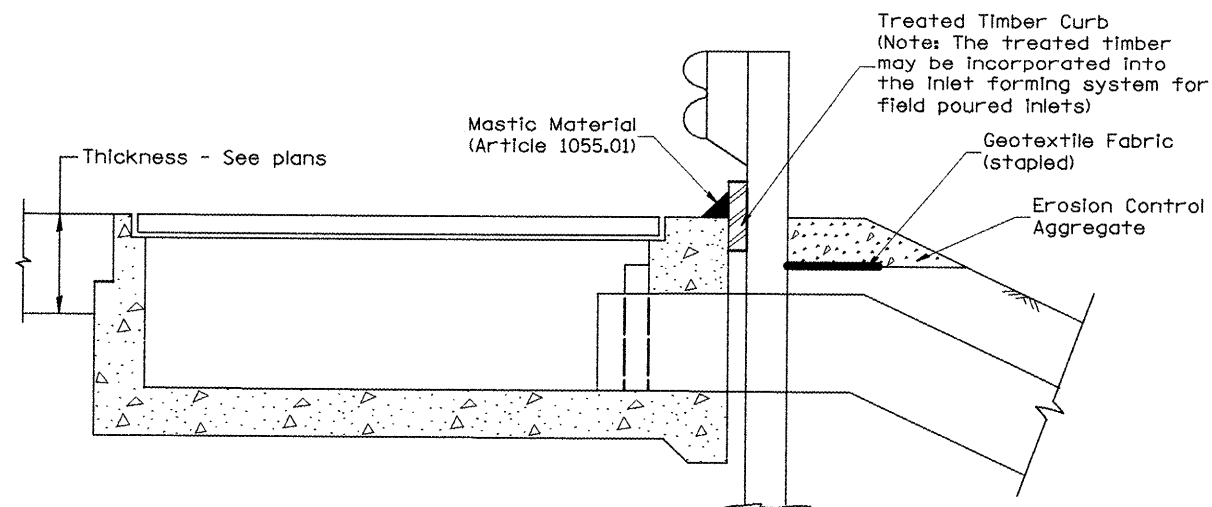
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	185
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



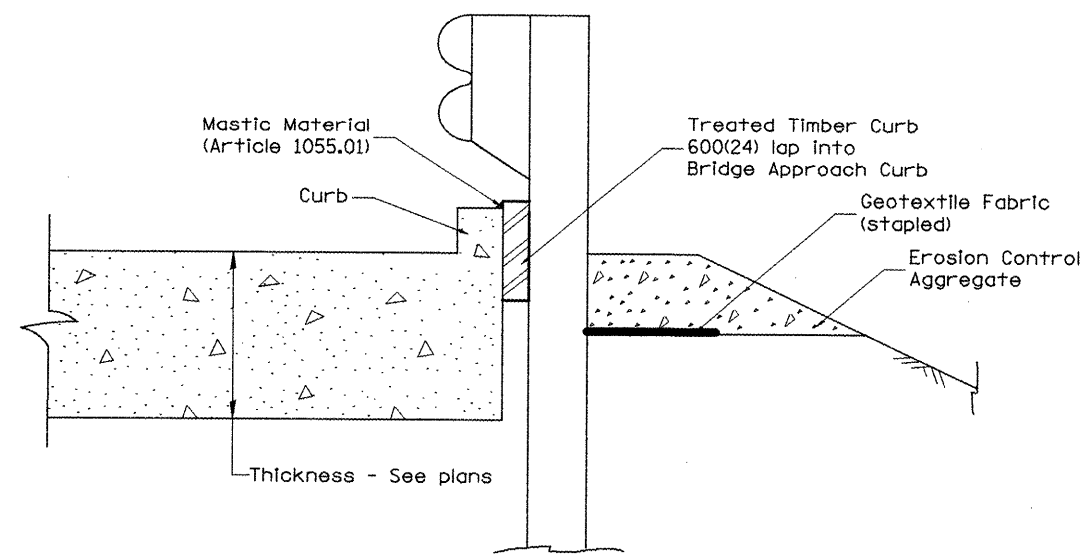
DETAIL A
(Typical Treated Timber Splices)



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



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

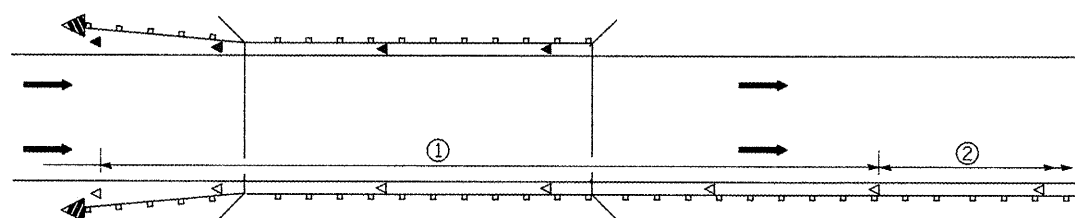


SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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

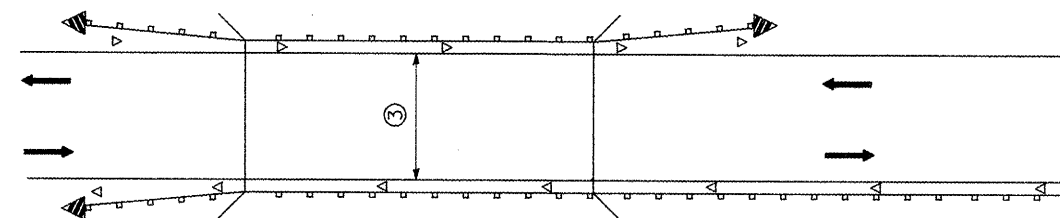
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	186
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

ONE-WAY TRAFFIC



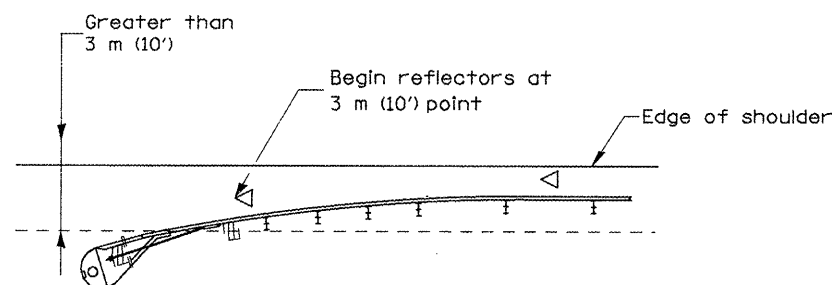
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 610 (24) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

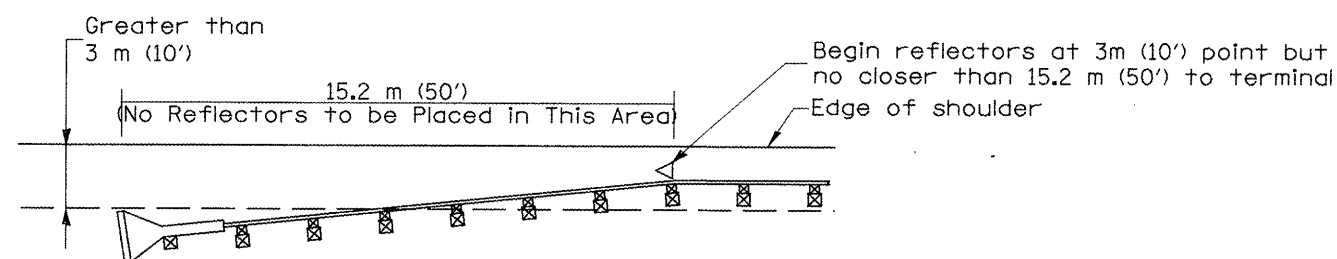
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▴ Terminal Marker - Black/Yellow
Left or Right as appropriate



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

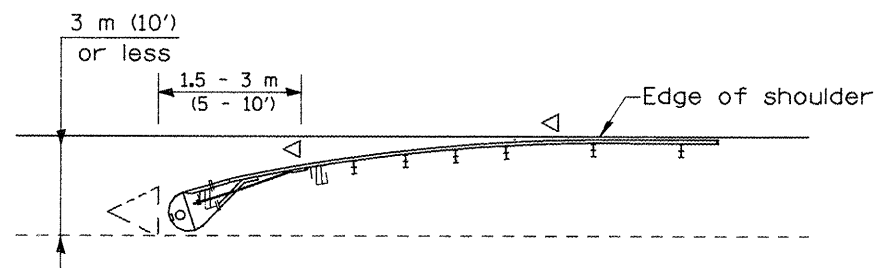
Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

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



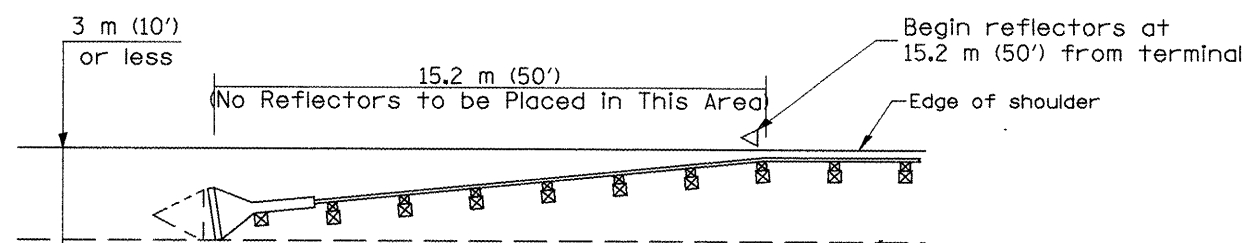
NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

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



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

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



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

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

**ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD**

**GUARDRAIL AND
BARRIER WALL DELINEATION**

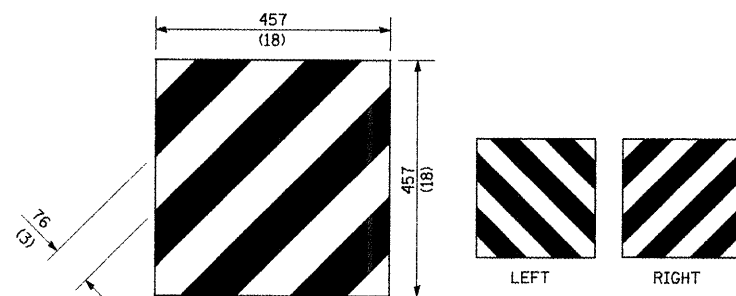
CADD STD. NO. 635101-D4
SCALE: NOT DRAWN TO SCALE

SHEET 1 OF 3
DRAWN BY CADD
CHECKED BY

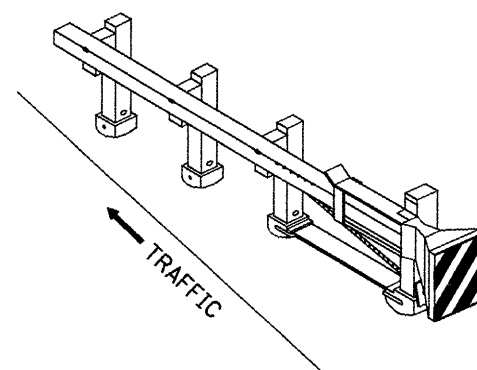
DATE	REVISIONS	BY
1-1-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. SPEC. *	J.A.

TERMINAL MARKER PLACEMENT

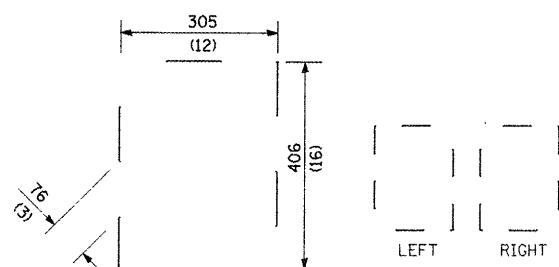
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	187
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



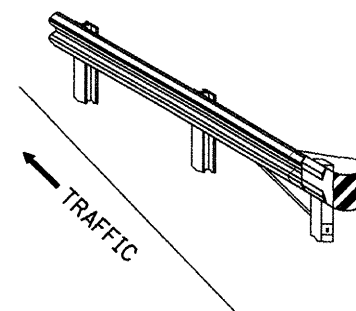
For Traffic Barrier Terminal Type 1 (Special)



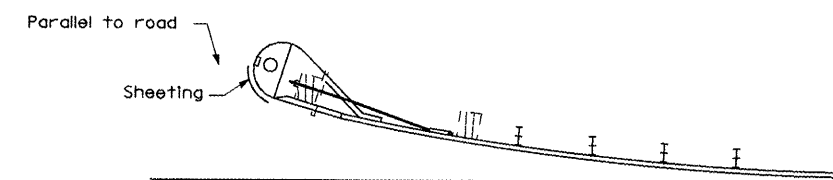
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



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



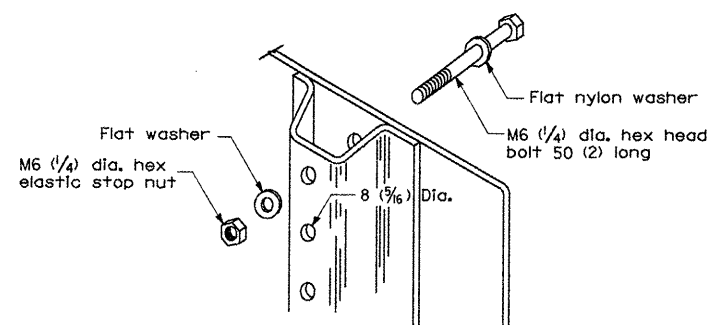
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
* See Plans for Type



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

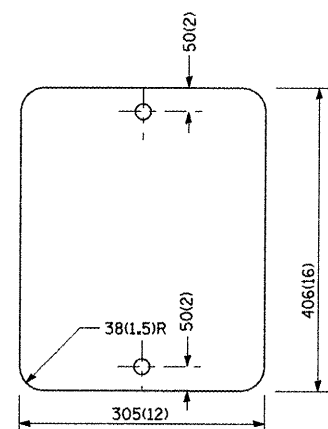
TERMINAL MARKER DETAILS

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

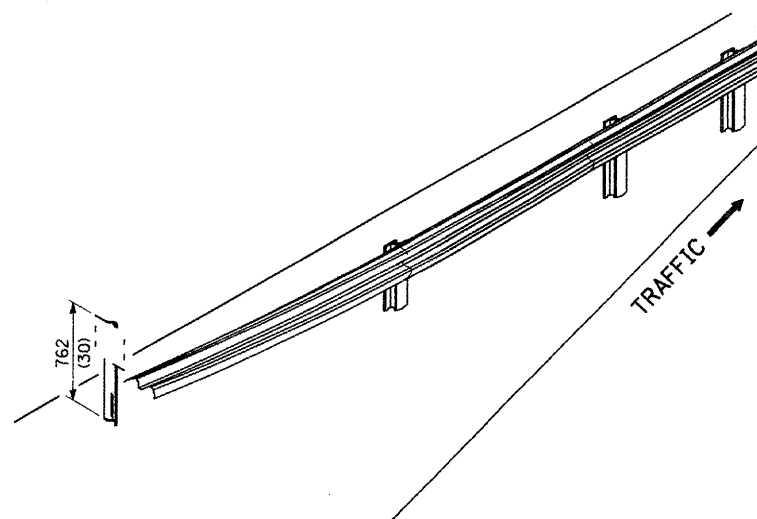


DETAIL OF MOUNTING TERMINAL MARKER TO POST

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

GUARDRAIL AND
BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4

SHEET 2 OF 3

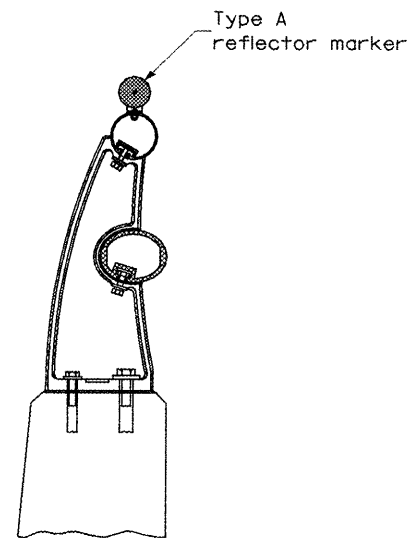
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD

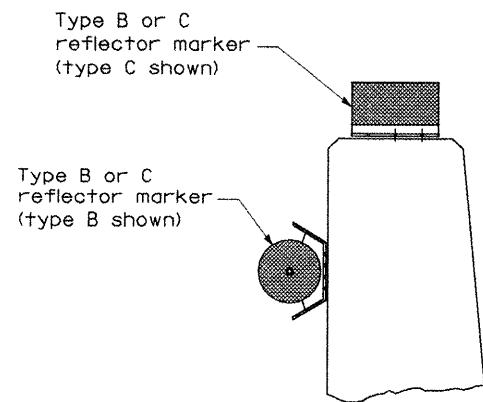
CHECKED BY

635101-D4 (2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-21 RS-5	FULTON	282	188
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

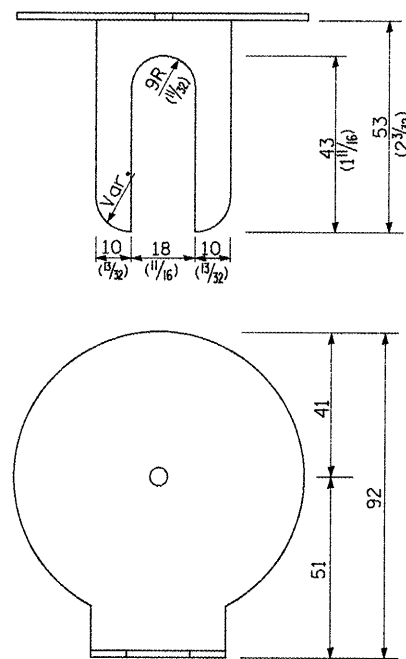


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



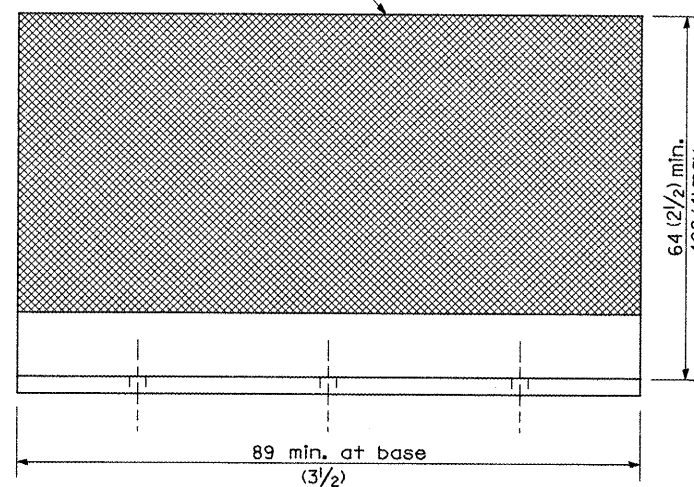
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING

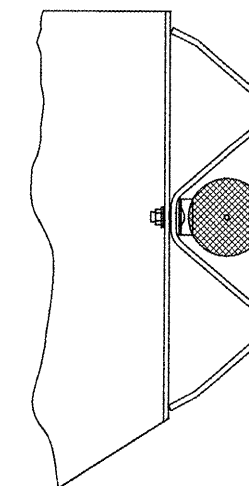


REFLECTOR MARKER TYPE A

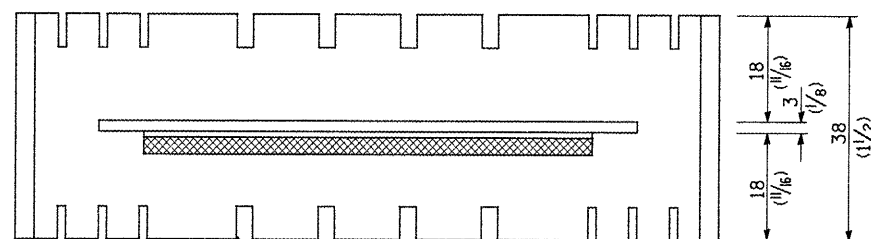
Min. reflective area 4,194 mm² (6 1/2 Sq. In.) each side. May be rectangular or slight trapezoid.



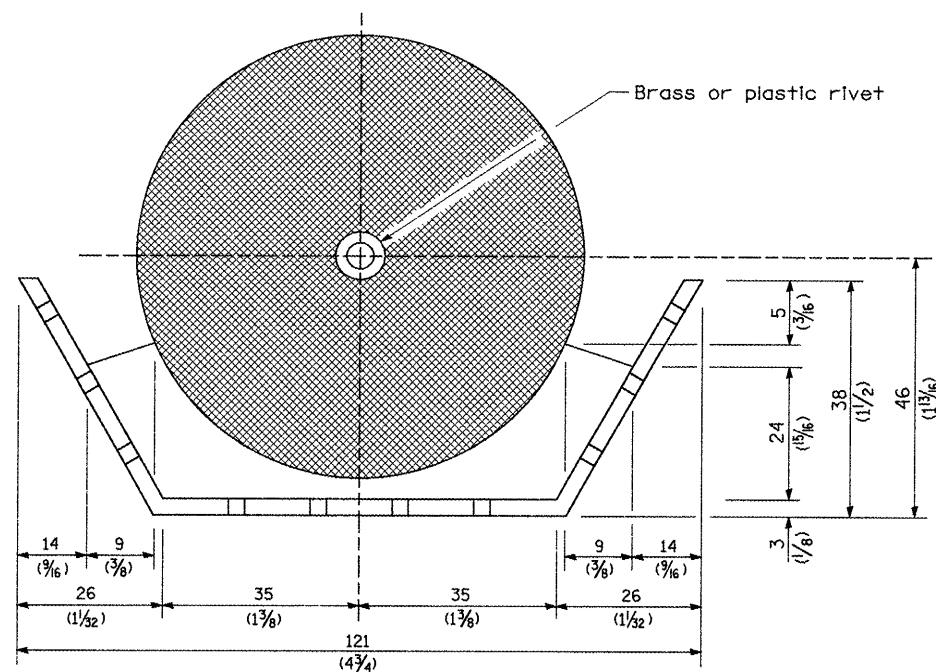
REFLECTOR MARKER TYPE C



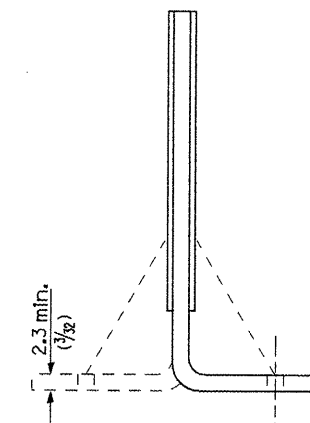
TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Adhesive weep slots or holes equally spaced on both sides

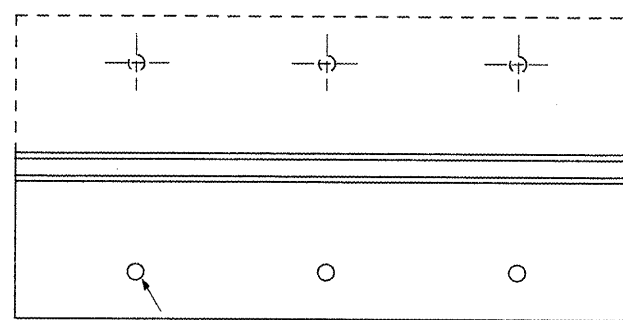


REFLECTOR MARKER TYPE B



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

REFLECTORS



Minimum total area of base 4,516 mm²

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

GUARDRAIL AND BARRIER WALL DELINEATION

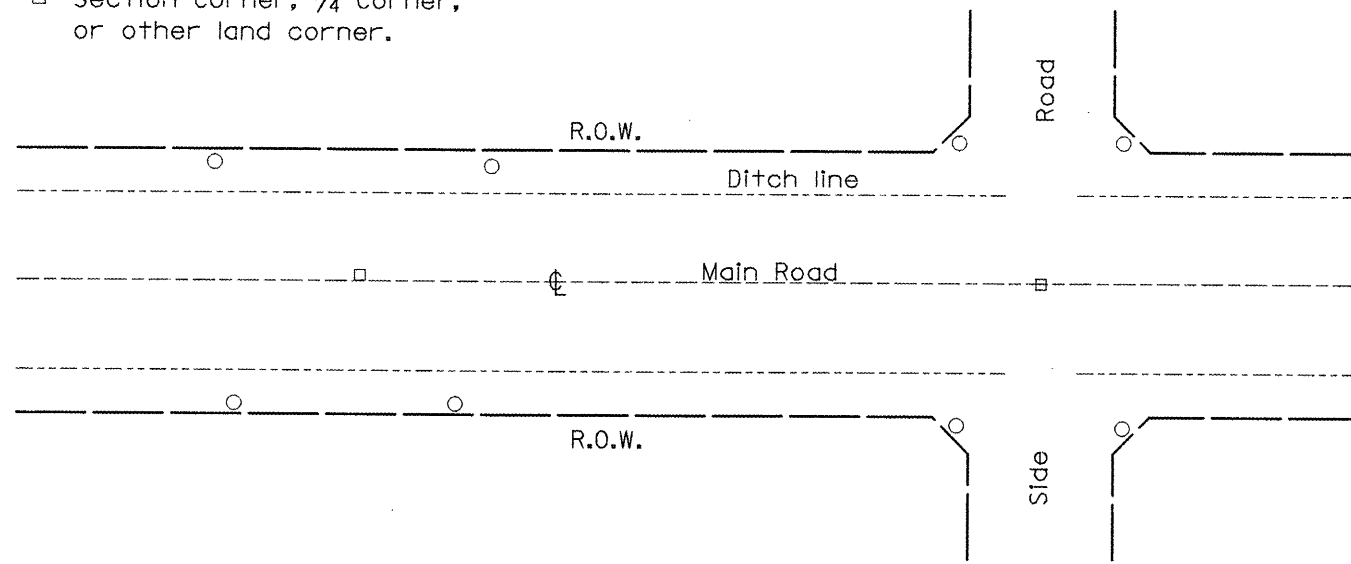
CADD STD. NO. 635101-D4
SCALE: NOT DRAWN TO SCALE

SHEET 3 OF 3
DRAWN BY CADD
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	262	189
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

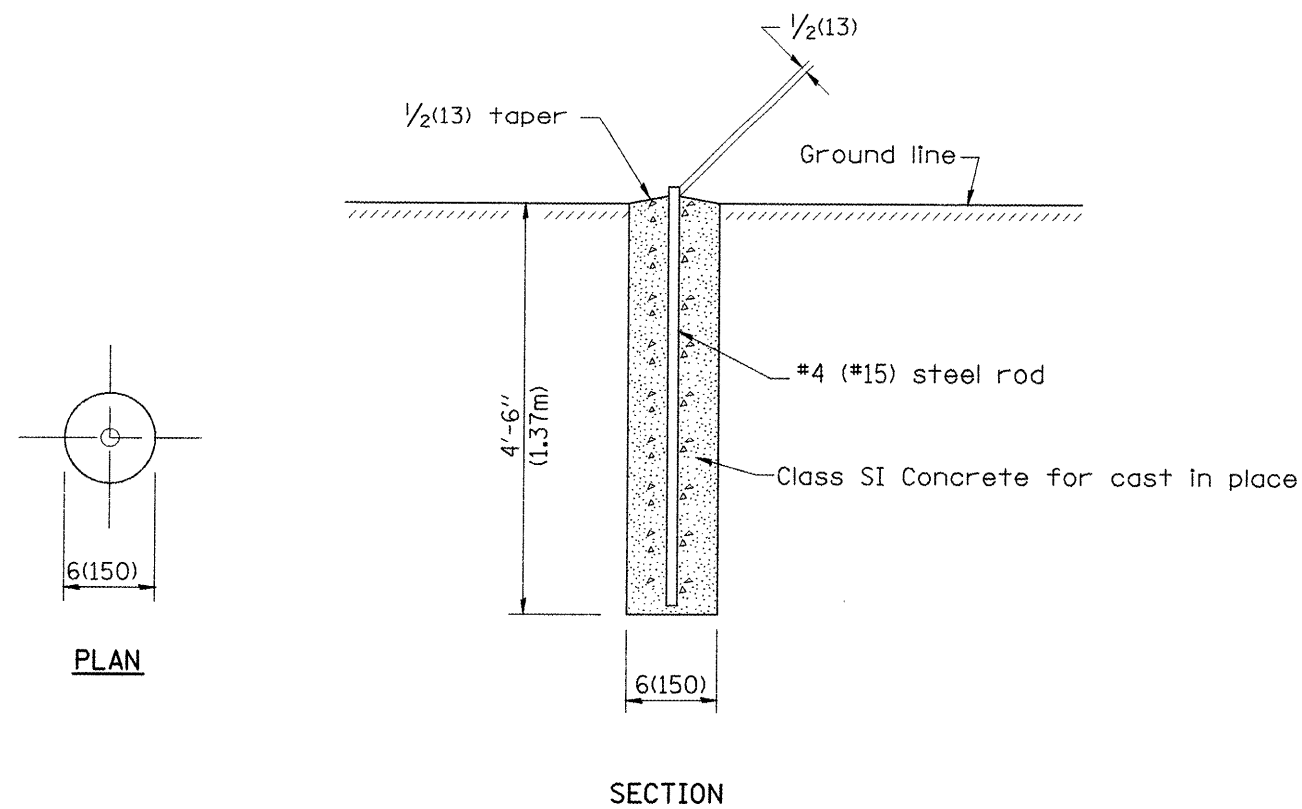
PERMANENT SURVEY TIES

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

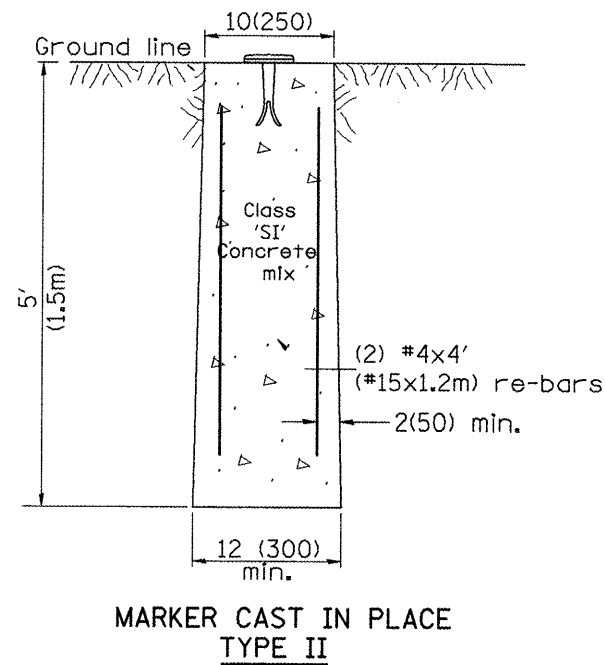
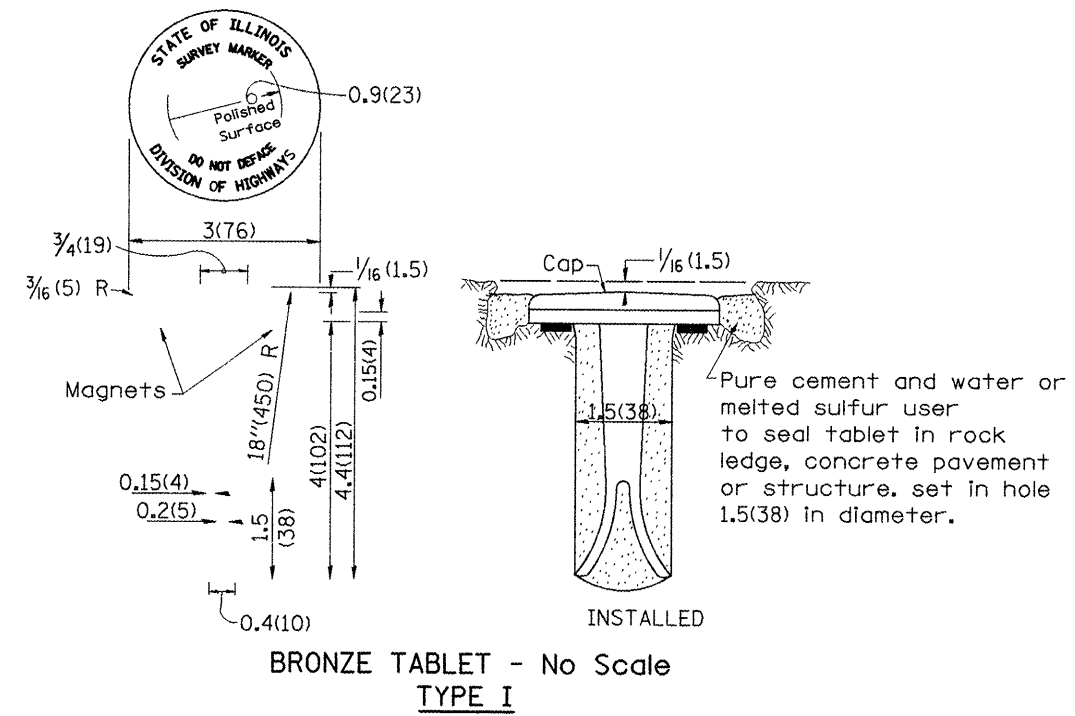


TYPICAL APPLICATION

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



PERMANENT SURVEY MARKERS



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

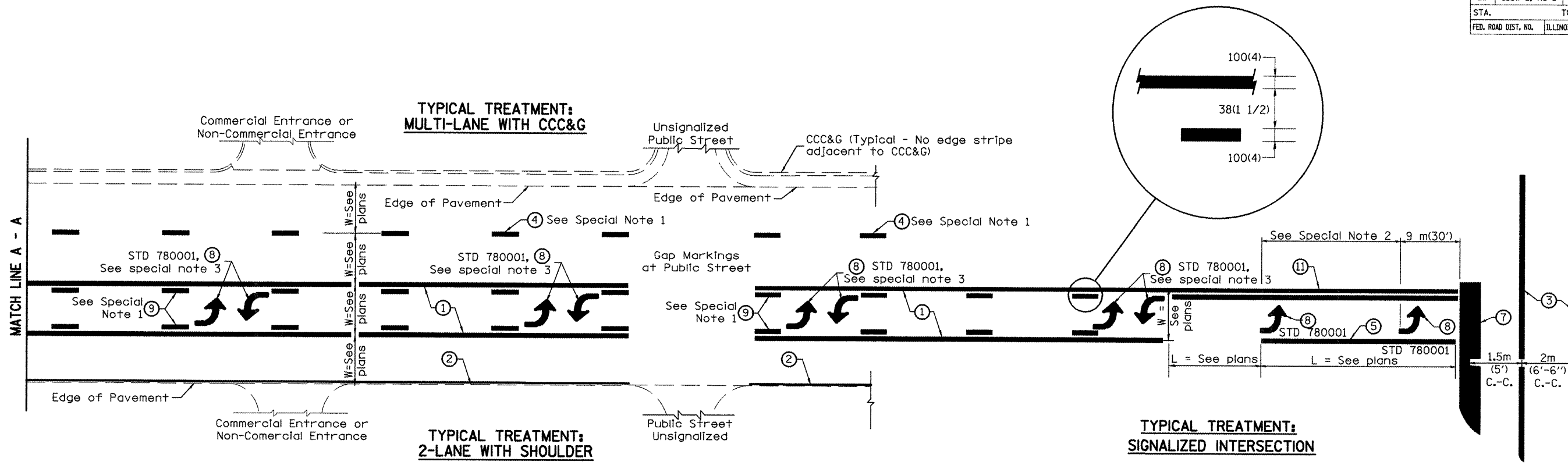
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I - TY.II	
CADD STD. NO. 667101-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01, NEW REVISION BOX	T.P.
	ADD DESIGNER NOTE, REVISED TITLE BOX	
7-7-98	ADD DESIGNER NOTE	J.A.
5-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

DATE

DGN-ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	135W-2; RS-5	FULTON	282	190
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

TYPICAL PAVEMENT MARKING LEGEND

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

- ① 100(4) Solid (Yellow)
- ② 100(4) Solid (White)
- ③ 2-150(6) Crosswalk @ 2m (6'-6") min C.-C. (White)
2-200(8) Crosswalk @ 2m (6'-6") min C.-C. (White) (When traffic signals are present.)
- ④ 150(6) Skip-Dash (White) (See Special Note 1)
- ⑤ 200(8) Solid (White)
- ⑥ 300(12) Diagonal (White) (Item 6 is shown on Std. 780001)
- ⑦ 600(24) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 100(4) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 300(12) Diagonal (Yellow) (See Table A) 280(11) C.-C. See Table A
- ⑪ 100(4) Double Solid (Yellow)

SPECIAL NOTES

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

GENERAL NOTES

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

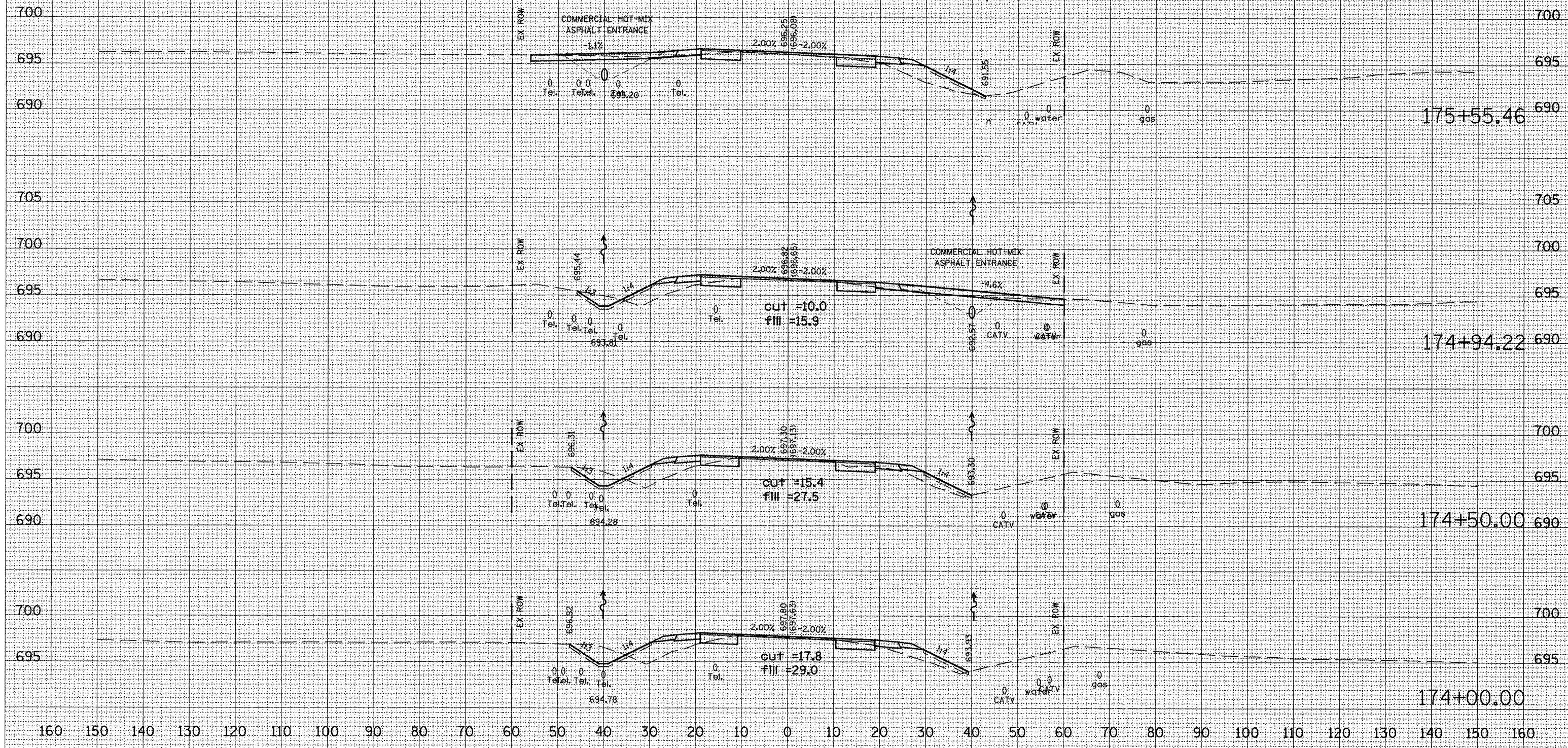
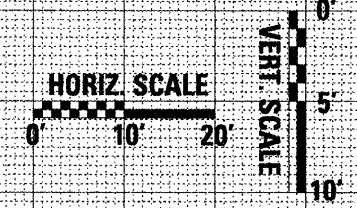
TYPICAL PAVEMENT MARKINGS

CADD STANDARD 780001-D4 SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

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

CONTRACT NO. 68114			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
22	135W-24RS-5	FULTON	282
STA. 174+00.00		TO STA. 175+55.46	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

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 90 100 110 120 130 140 150 160



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

PLOT DATE = 8/18/2008
 FILE NAME = c:\projects\174\mainline\mainline\mainline.dwg
 PLOT SCALE = 21.785 / IN.
 USER NAME = hudsonm

