

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 533: ILL ROUTE 176

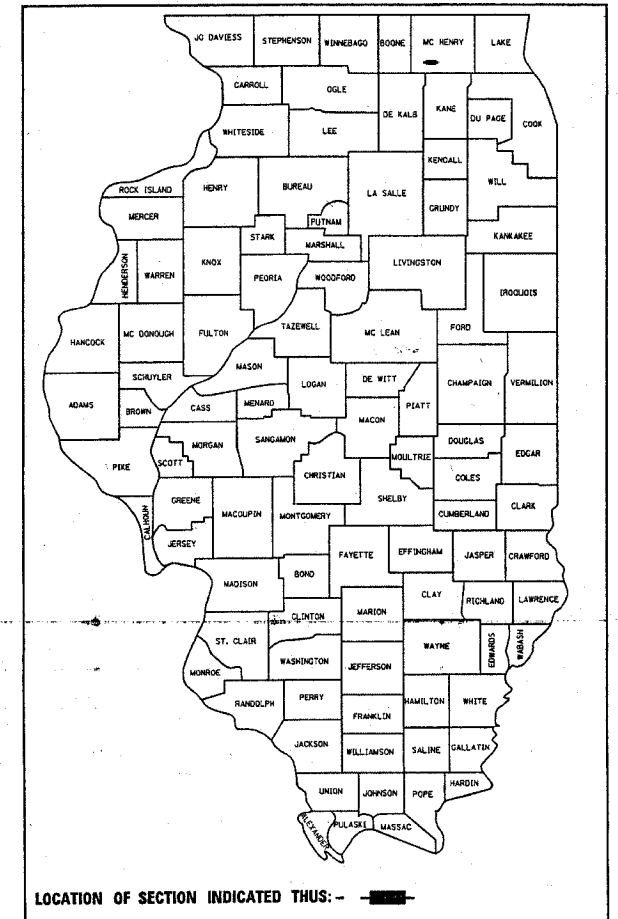
SECTION: 2004-117 RS

RESURFACING (DETOUR ROUTE)

MILLSTREAM ROAD (IL 176 TO GARDEN VALLEY ROAD)
GARDEN VALLEY ROAD (MILLSTREAM ROAD TO NORTH UNION ROAD)
NORTH UNION ROAD (GARDEN VALLEY ROAD TO IL 176)
MCHENRY COUNTY

C-91-052-05

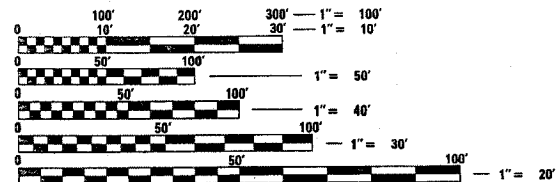
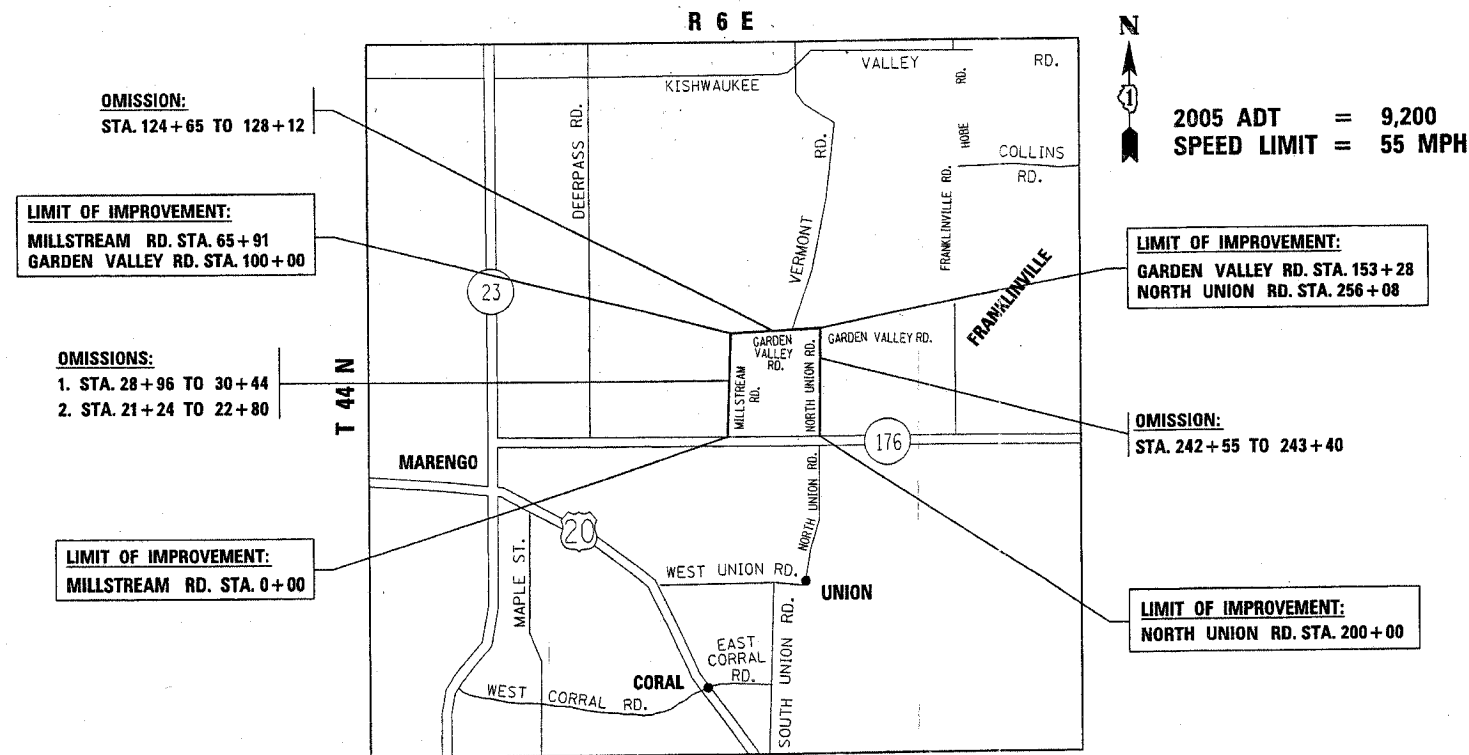
D-91-488-01



FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN UNINCORPORATED MCHENRY COUNTY

DISTRICT ONE - PLAN PREPARATION ENGINEER: KEN ENG / J.P. CHANG (847) 705-4432



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

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

CONTRACT NO. 62873

SENECA TOWNSHIP
LOCATION MAP

GROSS LENGTH OF IMPROVEMENT = 17,527 FEET = 3.3 MILES
NET LENGTH OF IMPROVEMENT = 16,791 FEET = 3.2 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 27, 2007

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 17, 2007
Eric E. Harms
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

August 17, 2007
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 EXISTING AND PROPOSED TYPICAL SECTIONS
- 5-11 ROADWAY AND PAVEMENT MARKING PLANS
- 12 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- 13 BUTT JOINT AND HMA TAPER DETAILS
- 14 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- 15 TRAFFIC CONTROL & PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- 16 TYPICAL RECESSED REFLECTIVE PAVEMENT MARKERS
- 17 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 18 TEMPORARY INFORMATION SIGNING
- 19 PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING
- 20-26 CROSS SECTIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, SENECA TOWNSHIP, AND MCHENRY COUNTY.

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

ALL HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE CLASS D

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN, PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEETS INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLEN, AREA TRAFFIC ENGINEER, AT (847) 438-2300 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH WITHOUT WRITTEN APPROVAL FROM THE RESIDENT ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

STATE STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 420001-06 PAVEMENT JOINTS
- 442201-02 CLASS C & D PATCHES
- 482011-02 HMA SHOULDER STRIPS/SHLDRS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 701006-02 OFF-ROAD OPERATIONS, 2L, 2W 4.5M (15') TO PAVEMENT EDGE, FOR SPEEDS ≥ 45 MPH
- 701011-01 OFF-ROAD MOVING OPERATIONS, 2L, 2W DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED ≥ 45 MPH
- 702001-06 TRAFFIC CONTROL DEVICES
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

SCHEDULE OF QUANTITIES (EARTHWORK)

1	2	3	4	5	6
IL 176 (DETOUR ROUTE)	EARTH EXCAVATION (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	FURNISHED EXCAVATION (CU YD)	TOP SOIL FURNISH AND PLACE (SQ YD)
MILLSTREAM RD.: STA. 64+41 - STA. 65+21	12.98	16.11	11.03	-5.08	263
GARDENVALLEY RD.: STA. 100+20 - STA. 101+60	12.32	22.22	10.47	-11.75	
IL 176: STA. 500+20 - STA. 500+80	15.21	7.24	12.93	5.69	
NORTH UNION RD.: STA. 699+65 TO STA. 200+85	12.18	14.93	10.35	-4.58	168
TOTAL	52.69	60.50	44.78	-15.72	431

COLUMN 1: LOCATION FROM PLANS
 COLUMN 2: CUT QUANTITIES
 COLUMN 3: FILL QUANTITIES

COLUMN 4: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%
 COLUMN 5: COLUMN 4 - COLUMN 3, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED
 COLUMN 6: TOPSOIL FURNISH AND PLACE= AREA OF SEEDING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETOUR FOR BRIDGE OVER
 THE SOUTH BRANCH KISHWAUKEE RIVER ON IL 176
 INDEX OF SHEETS, GENERAL NOTES,
 AND STATE STANDARDS
 SCALE: VERT.
 HORIZ.
 DATE 7/20/2007
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			URBAN 100% STATE		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY I000-2A					
20200100	EARTH EXCAVATION	CU YD	53	53					
20201006	GRADING AND SHAPING SHOULDERS	UNIT	368	368					
20400800	FURNISHED EXCAVATION	CU YD	16	16					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	431	431					
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	10					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10	10					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	10					
25100630	EROSION CONTROL BLANKET	SQ YD	431	431					
25200200	SUPPLEMENTAL WATERING	UNIT	6	6					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10					
28000300	TEMPORARY DITCH CHECKS	EACH	30	30					
28000400	PERIMETER EROSION BARRIER	FOOT	355	355					
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	165	165					
35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	240	240					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	19	19					
40600300	AGGREGATE (PRIME COAT)	TON	95	95					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5					
40600895	CONSTRUCTING TEST STRIP	EACH	2	2					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	262	262					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	35	35					
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5965	5965					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3980	3980					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	47285	47285					
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	200	200					
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	200	200					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1472	1472					

SUMMARY OF QUANTITIES			URBAN 100% STATE		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY I000-2A					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3					
67100100	MOBILIZATION	L SUM	1	1					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1					
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10					
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	10300	10300					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	44210	44210					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	340	340					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	18	18					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	18206	18206					
* 72000100	SIGN PANEL - TYPE 1	SQ FT	10	10					
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	44210	44210					
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	340	340					
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	18	18					
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8					
* XX006257	RECESSED REFLECTIVE PAVMENT MARKER	EACH	273	273					

* - SPECIALTY ITEM

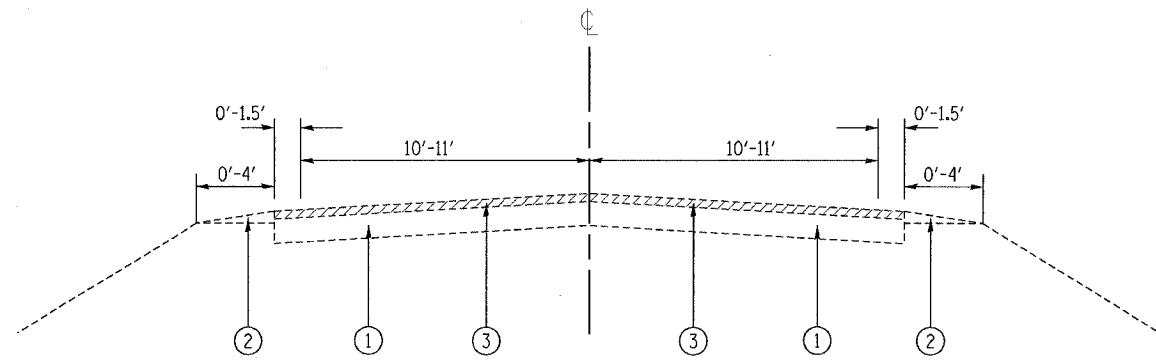
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PLOT DATE: 7/20/2007

7/20/2007 10:48:00 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	4
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT				

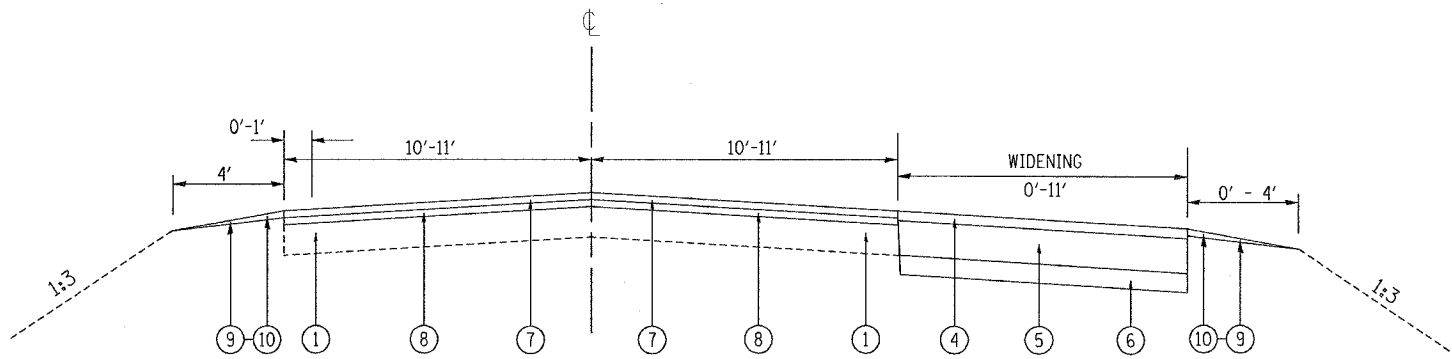


EXISTING TYPICAL CROSS SECTION

MILLSTREAM RD.: STA. 00+00 TO STA. 21+24
 STA. 22+80 TO STA. 28+96
 STA. 30+44 TO STA. 65+91

GARDEN VALLEY RD.: STA. 100+00 TO STA. 124+65
 STA. 128+12 TO STA. 153+28

NORTH UNION RD.: STA. 200+00 TO STA. 242+55
 STA. 243+40 TO STA. 265+00



PROPOSED TYPICAL CROSS SECTION

MILLSTREAM RD.: STA. 00+00 TO STA. 21+24
 STA. 22+80 TO STA. 28+96
 STA. 30+44 TO STA. 65+91

GARDEN VALLEY RD.: STA. 100+00 TO STA. 124+65
 STA. 128+12 TO STA. 153+28

NORTH UNION RD.: STA. 200+00 TO STA. 242+55
 STA. 243+40 TO STA. 265+00

LEGEND

- ① EXISTING HMA PAVEMENT, 6"±
- ② EXISTING AGGREGATE SHOULDER
- ③ PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- ④ PROPOSED WIDENING HMA SURFACE COURSE, MIX "D", N50, 2 "
- ⑤ PROPOSED HMA BASE COURSE WIDENING, 7"
- ⑥ PROPOSED SUB-BASE GRANULAR MATERIAL TYPE B, 4"
- ⑦ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑧ PROPOSED HMA BINDER COURSE IL-19.0, N70, 2 1/4"
- ⑨ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑩ PROPOSED GRADING & SHAPING SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE TYPE	AC/PG	AIR VOIDS (%)
ROADWAY	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"	PG 64-22*	4% @ 70 GYR
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, IL 9.5 MM, 1 1/2"	PG 64-22	4% @ 70 GYR
PATCHING	CLASS D PATCHES, IL-19, 8"	PG 64-22*	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	PG 64-22*	4% @ 70 GYR
WIDENING	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	PG 64-22*	4% @ 50 GYR
SHOULDER	HOT-MIX ASPHALT SHOULDERS, 8"	PG 64-22*	4% @ 70 GYR

UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

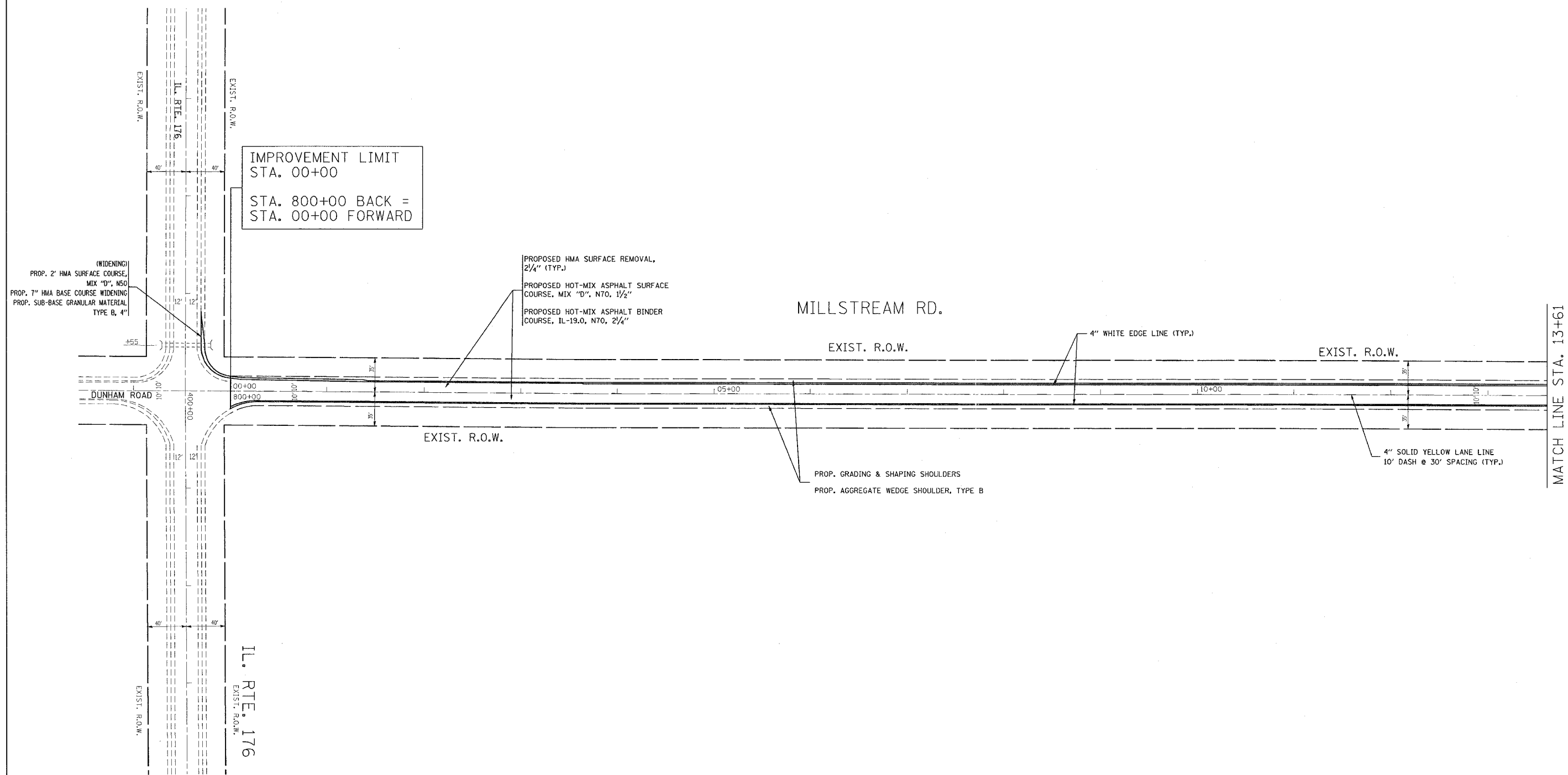
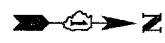
*WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

NOTE:

THESE ROUTES ARE CLASSIFIED AS CLASS II TRUCK ROUTE. THEREFORE, TO ACCOMMODATE THE TURNS OF TRUCKS, THE PROPOSED WIDENINGS ARE AT TURN RADII ONLY.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION DETOUR FOR BRIDGE OVER THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176 EXISTING AND PROPOSED TYPICAL SECTIONS
NAME	DATE	
SCALE: VERT.		DRAWN BY
DATE 7/19/2007		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	5
STA. 0+00		TO STA. 13+61		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

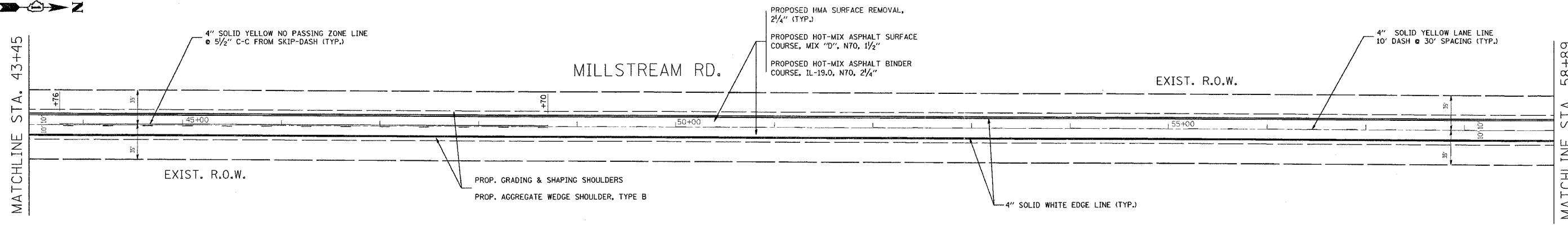
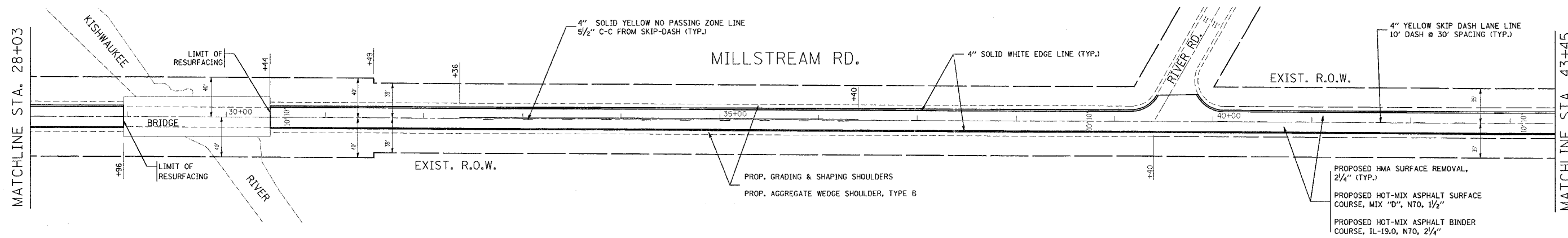
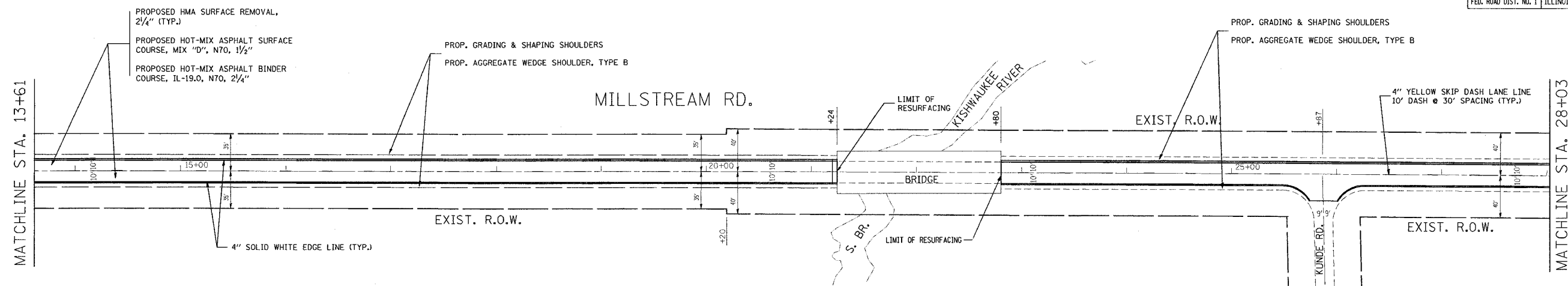


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION MILLSTREAM RD DETOUR FOR BRIDGE OVER THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176 ROADWAY AND PAVEMENT MARKING PLAN
NAME	DATE	

SCALE: VERT. 1" = 50'
HORIZ. DATE 7/19/2007

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	6
STA. 13+61		TO STA. 58+89		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

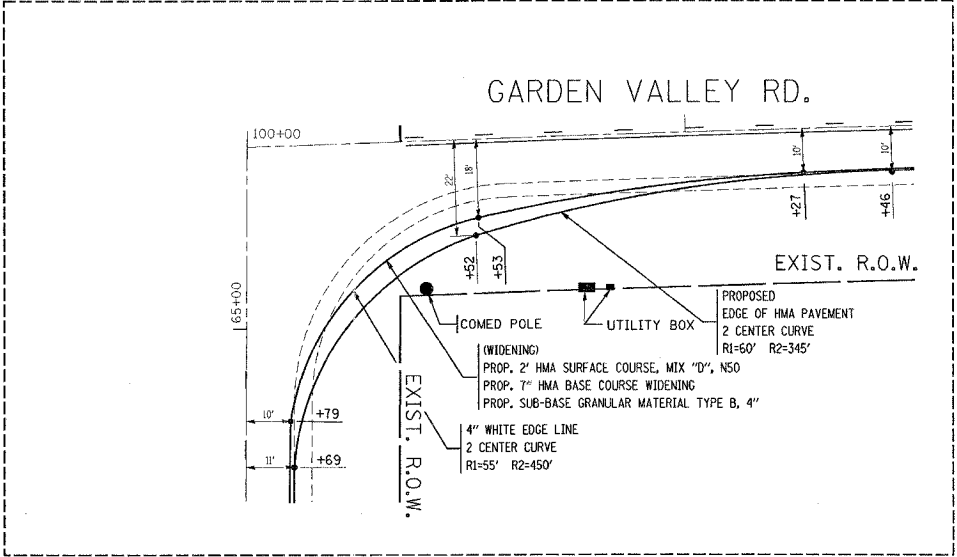
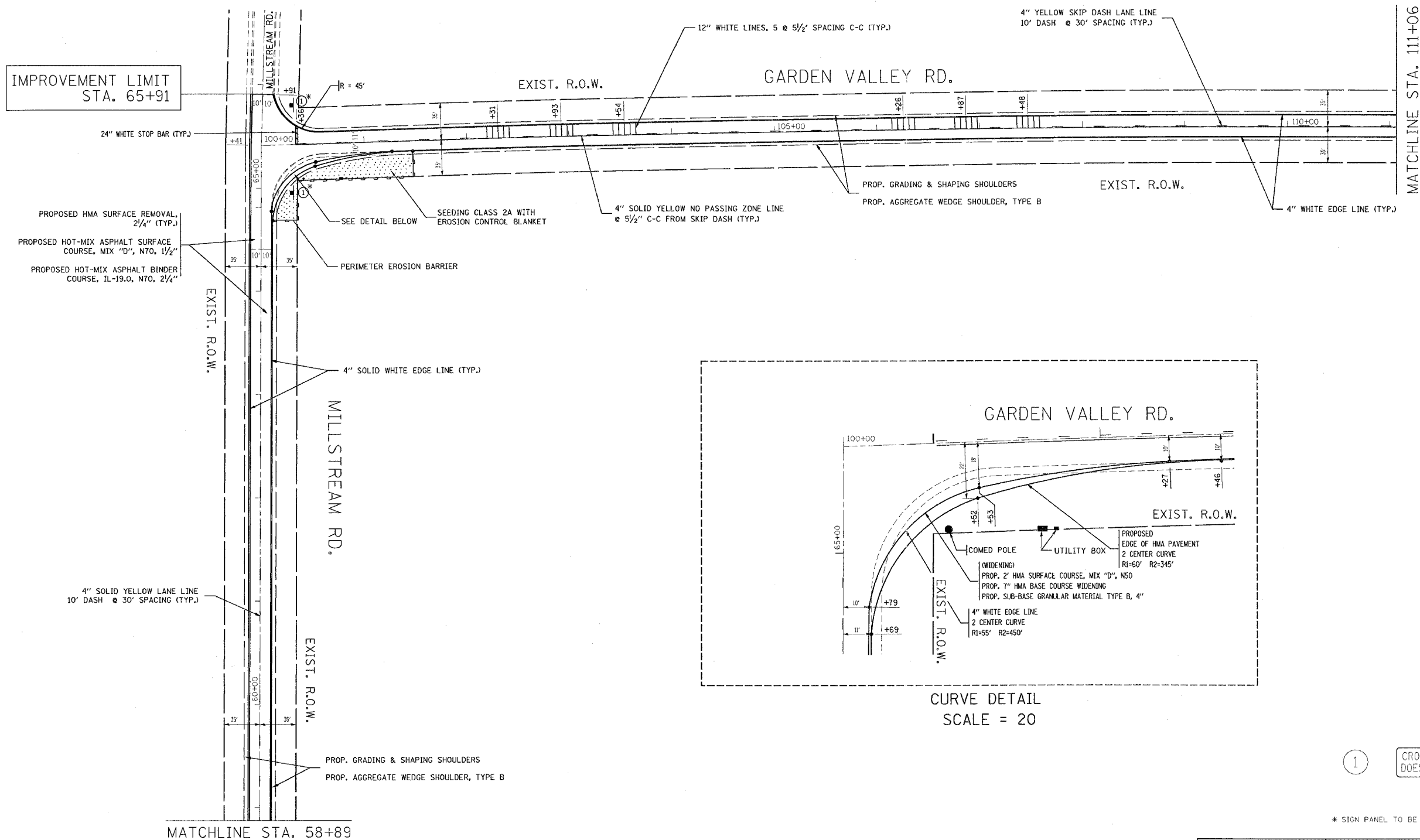


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION MILLSTREAM RD DETOUR FOR BRIDGE OVER THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176 ROADWAY AND PAVEMENT MARKING PLAN
NAME	DATE	

SCALE: VERT. 1" = 50'
HORIZ. DATE 7/19/2007

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	7
STA. 58+89		TO STA. 111+06		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	



CURVE DETAIL
SCALE = 20

1

CROSS TRAFFIC DOES NOT STOP

W4-4p

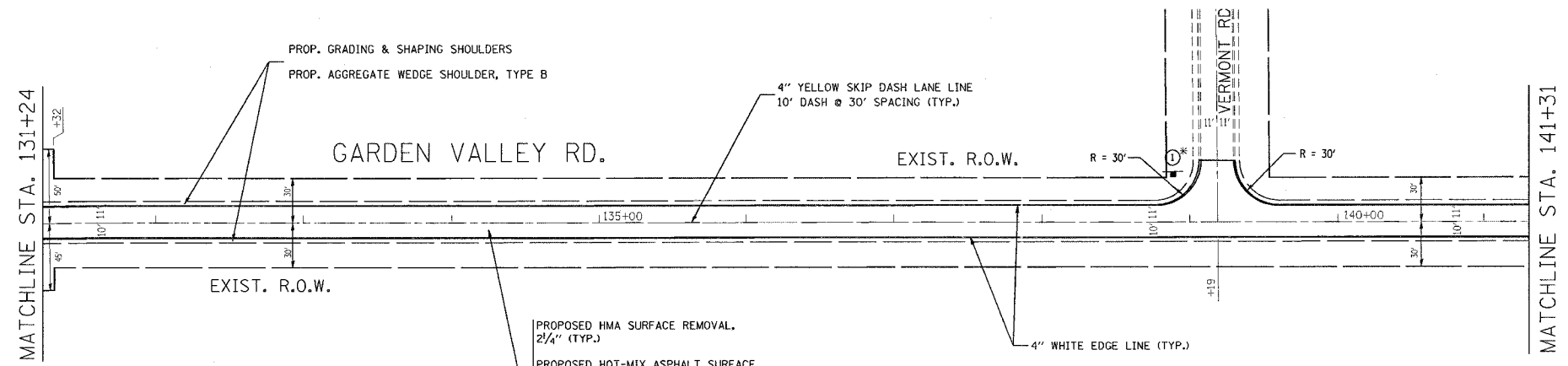
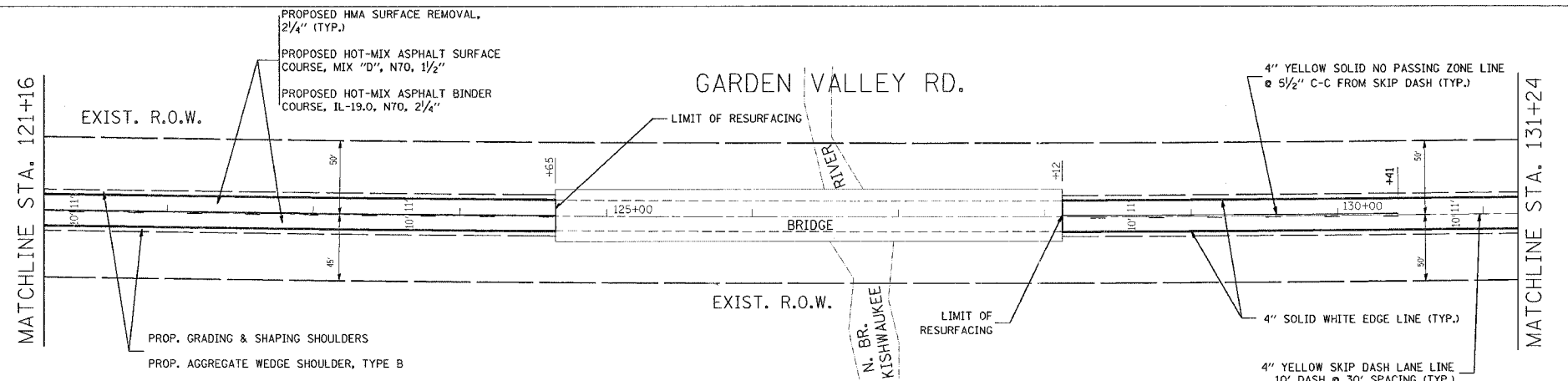
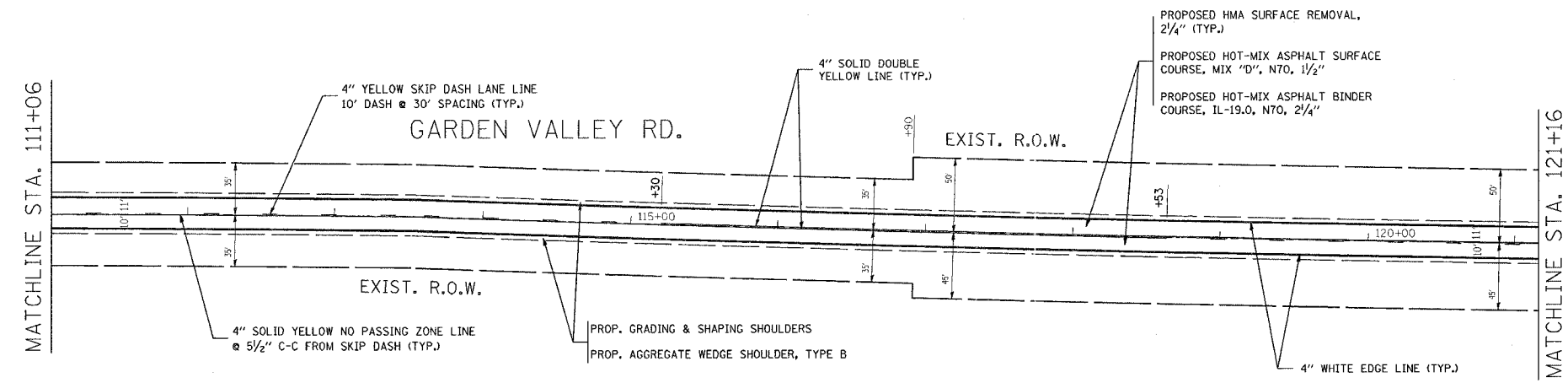
* SIGN PANEL TO BE MOUNTED UNDER STOP SIGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MILLSTREAM RD. / GARDEN VALLEY RD.
DETOUR FOR BRIDGE OVER
THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: VERT. 1" = 50'
HORIZ. 1" = 50'
DATE 7/20/2007
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	8
STA. 111+06		TO STA. 141+31		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



* SIGN PANEL TO BE MOUNTED UNDER STOP SIGN

REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GARDEN VALLEY RD.
 DETOUR FOR BRIDGE OVER
 THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176
 ROADWAY AND PAVEMENT MARKING PLAN

SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'
 DATE 7/20/2007
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	9
STA. 141+31		TO STA. 258+50		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

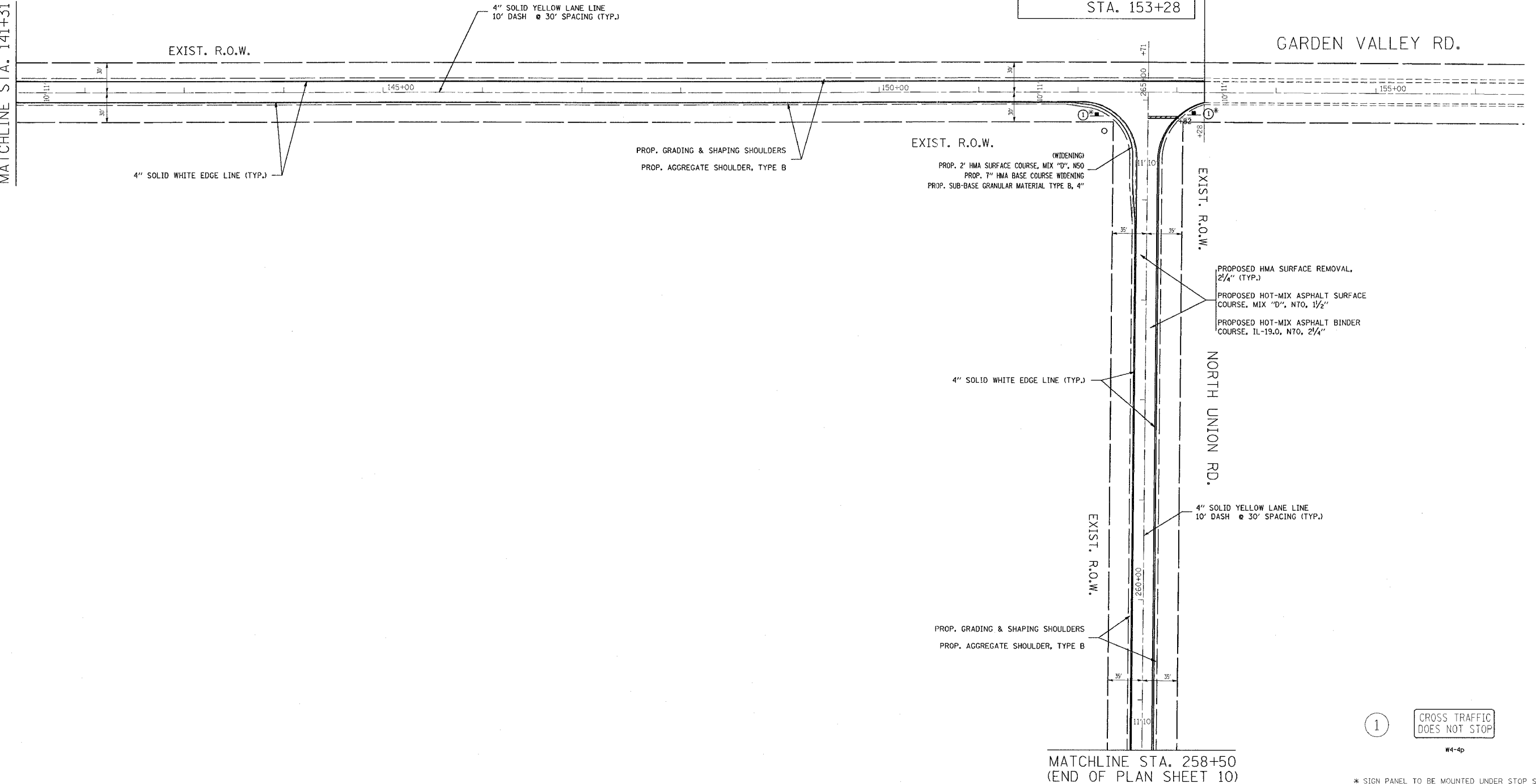


MATCHLINE STA. 141+31

GARDEN VALLEY RD.

IMPROVEMENT LIMIT
STA. 153+28

GARDEN VALLEY RD.



1 CROSS TRAFFIC DOES NOT STOP

W4-4p

* SIGN PANEL TO BE MOUNTED UNDER STOP SIGN

MATCHLINE STA. 258+50
(END OF PLAN SHEET 10)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GARDEN VALLEY RD. / NORTH UNION RD.
DETOUR FOR BRIDGE OVER
THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176
ROADWAY AND PAVEMENT MARKING PLAN
SCALE: VERT. 1" = 50'
HORIZ. DATE 7/20/2007
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	10
STA. 213+23		TO STA. 258+50		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



MATCHLINE STA. 213+23
(END OF PLAN SHEET 11)

PROPOSED HMA SURFACE REMOVAL,
2 1/4" (TYP.)
PROPOSED HOT-MIX ASPHALT SURFACE
COURSE, MIX "D", N70, 1 1/2"
PROPOSED HOT-MIX ASPHALT BINDER
COURSE, IL-19.0, N70, 2 1/4"

NORTH UNION RD.

4" SOLID YELLOW LANE LINE
10' DASH @ 30' SPACING (TYP.)

EXIST. R.O.W.

MATCHLINE STA. 228+74



MATCHLINE STA. 228+74

EXIST. R.O.W.

PROP. GRADING & SHAPING SHOULDERS
PROP. AGGREGATE WEDGE SHOULDER, TYPE B

NORTH UNION RD.

4" SOLID YELLOW LANE LINE
10' DASH @ 30' SPACING (TYP.)

EXIST. R.O.W.

RIVER
KISHWAUKEE
BRIDGE

MATCHLINE STA. 244+37

PROPOSED HMA SURFACE REMOVAL,
2 1/4" (TYP.)
PROPOSED HOT-MIX ASPHALT SURFACE
COURSE, MIX "D", N70, 1 1/2"
PROPOSED HOT-MIX ASPHALT BINDER
COURSE, IL-19.0, N70, 2 1/4"

4" SOLID WHITE EDGE LINE (TYP.)



MATCHLINE STA. 244+37

PROPOSED HMA SURFACE REMOVAL,
2 1/4" (TYP.)
PROPOSED HOT-MIX ASPHALT SURFACE
COURSE, MIX "D", N70, 1 1/2"
PROPOSED HOT-MIX ASPHALT BINDER
COURSE, IL-19.0, N70, 2 1/4"

NORTH UNION RD.

4" SOLID YELLOW LANE LINE
10' DASH @ 30' SPACING (TYP.)

EXIST. R.O.W.

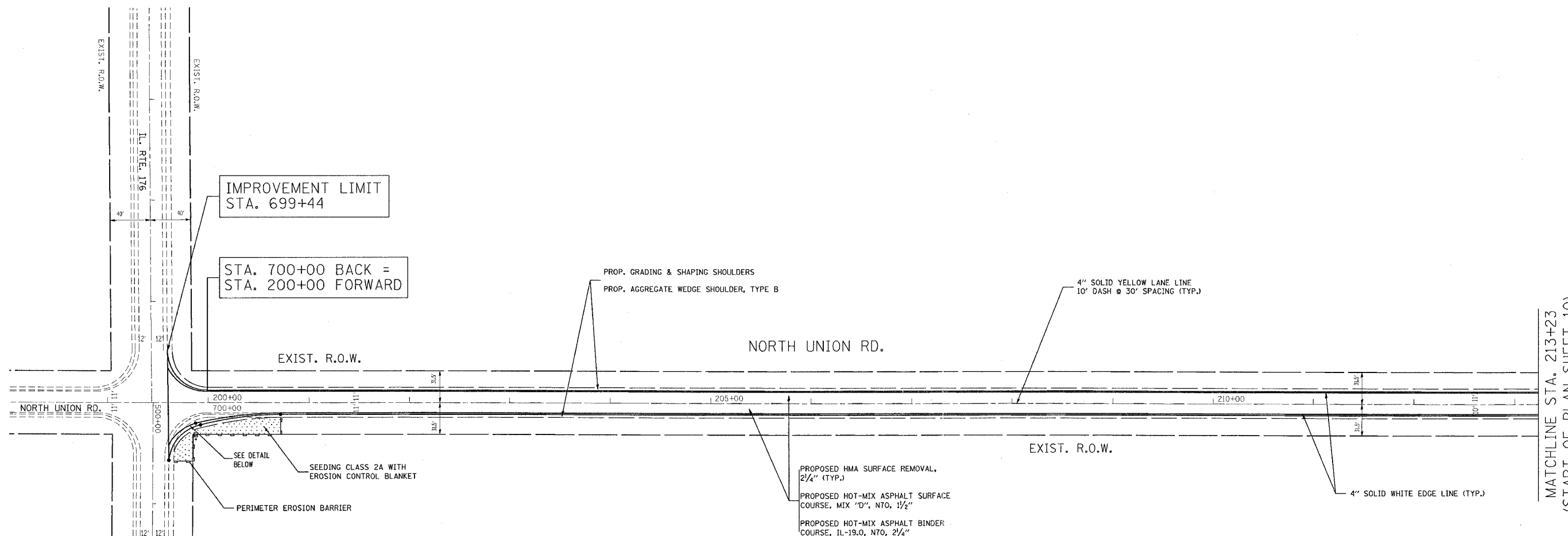
MATCHLINE STA. 258+50

PROP. GRADING & SHAPING SHOULDERS
PROP. AGGREGATE WEDGE SHOULDER, TYPE B

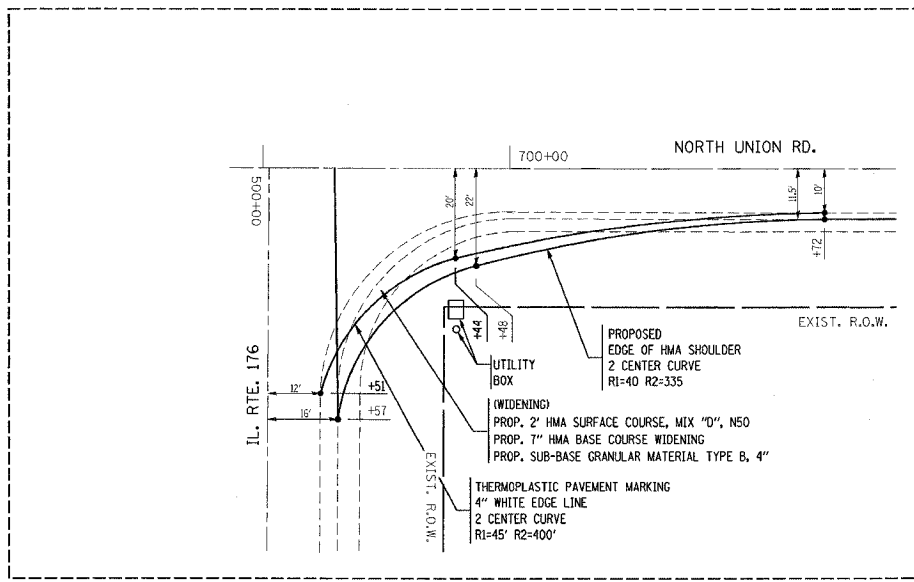
4" SOLID WHITE EDGE LINE (TYP.)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION NORTH UNION RD DETOUR FOR BRIDGE OVER THE SOUTH BRANCH KISHWAUKEE RIVER ON IL-176 ROADWAY AND PAVEMENT MARKING PLAN
NAME	DATE	
SCALE: VERT. 1" = 50' HORIZ. 1" = 50'		DRAWN BY
DATE 7/19/2007		CHECKED BY

CONTRACT NO. 62873			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
533	2004-117 RS	MCHENRY	26
STA. 200+00	TO STA. 213+23		11
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT



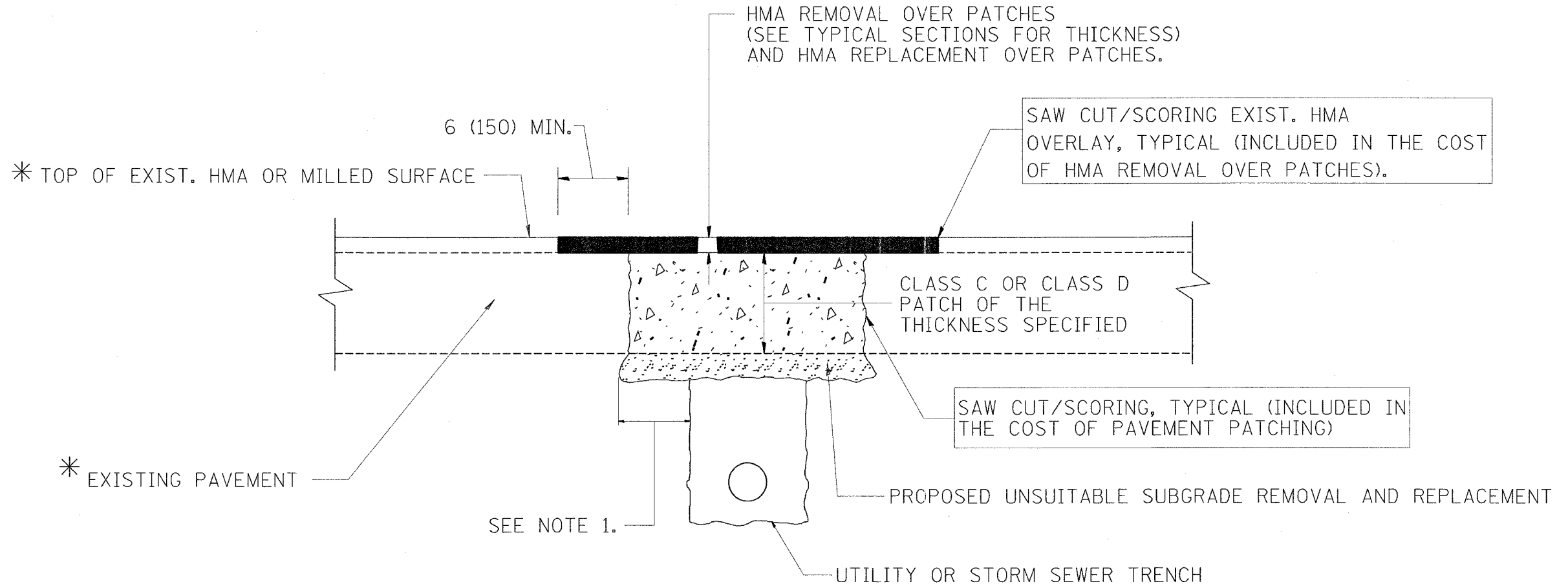
MATCHLINE STA. 213+23
(START OF PLAN SHEET 10)



CURVE DETAIL
SCALE = 20

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION NORTH UNION RD DETOUR FOR BRIDGE OVER THE SOUTH BRANCH KISHAWAUKEE RIVER ON IL-176 ROADWAY AND PAVEMENT MARKING PLAN
NAME	DATE	
SCALE:	VERT. 1" = 50'	DRAWN BY
DATE	HORIZ. 1" = 50'	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	12
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/99
R. SHAH	04/24/99
A. HOUSEH	03/15/98
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

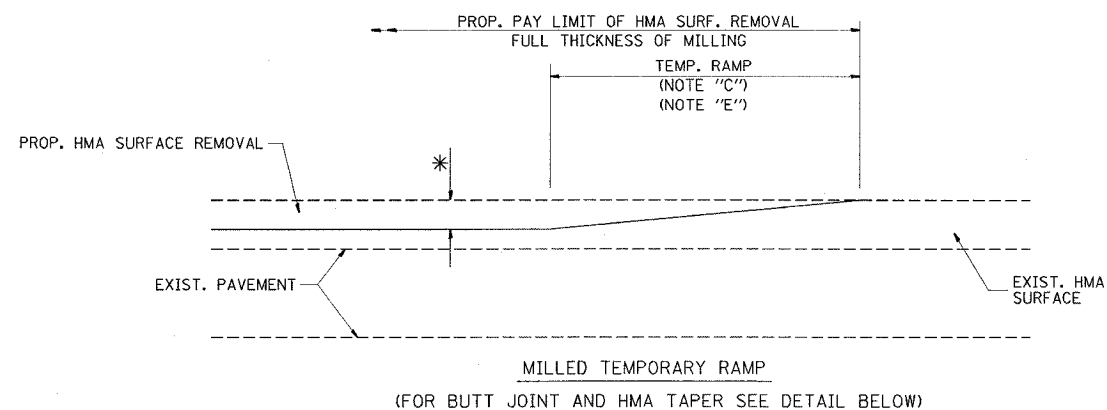
SCALE: VERT. NONE
HORIZ.

DRAWN BY

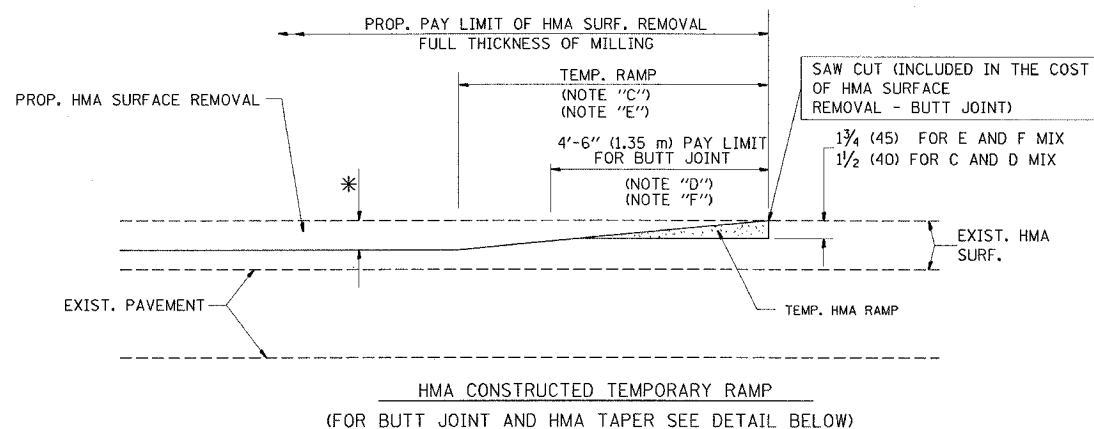
CHECKED BY

BD400-04 (BD-22)

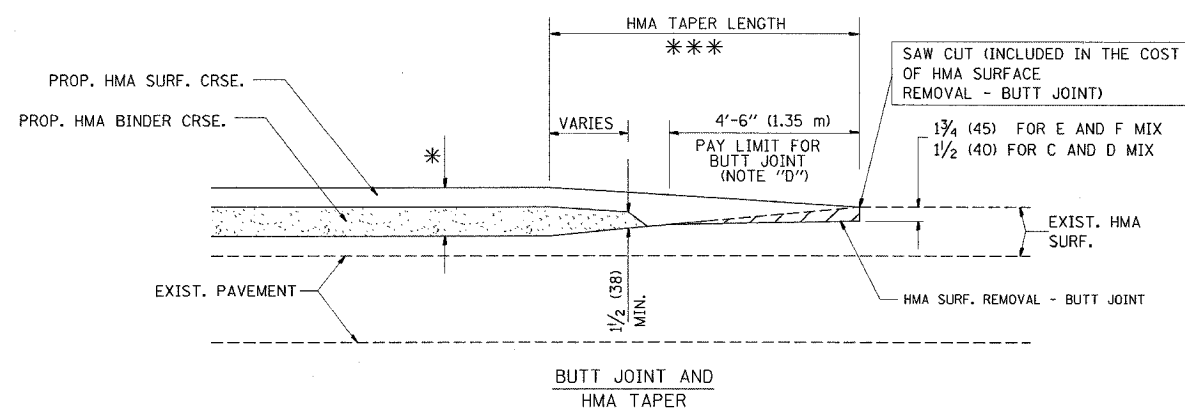
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	13
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



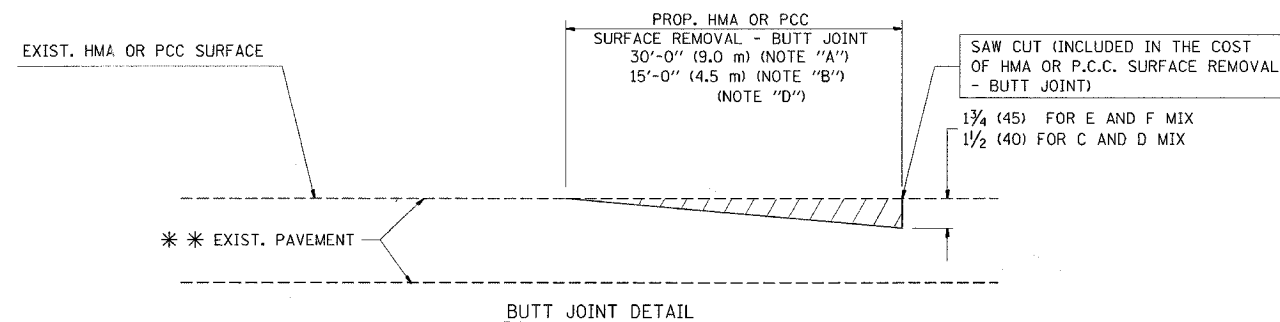
OPTION 1



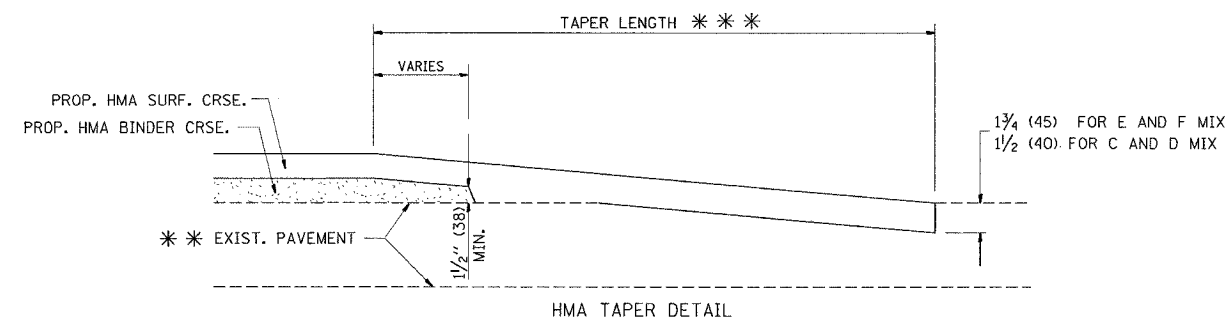
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

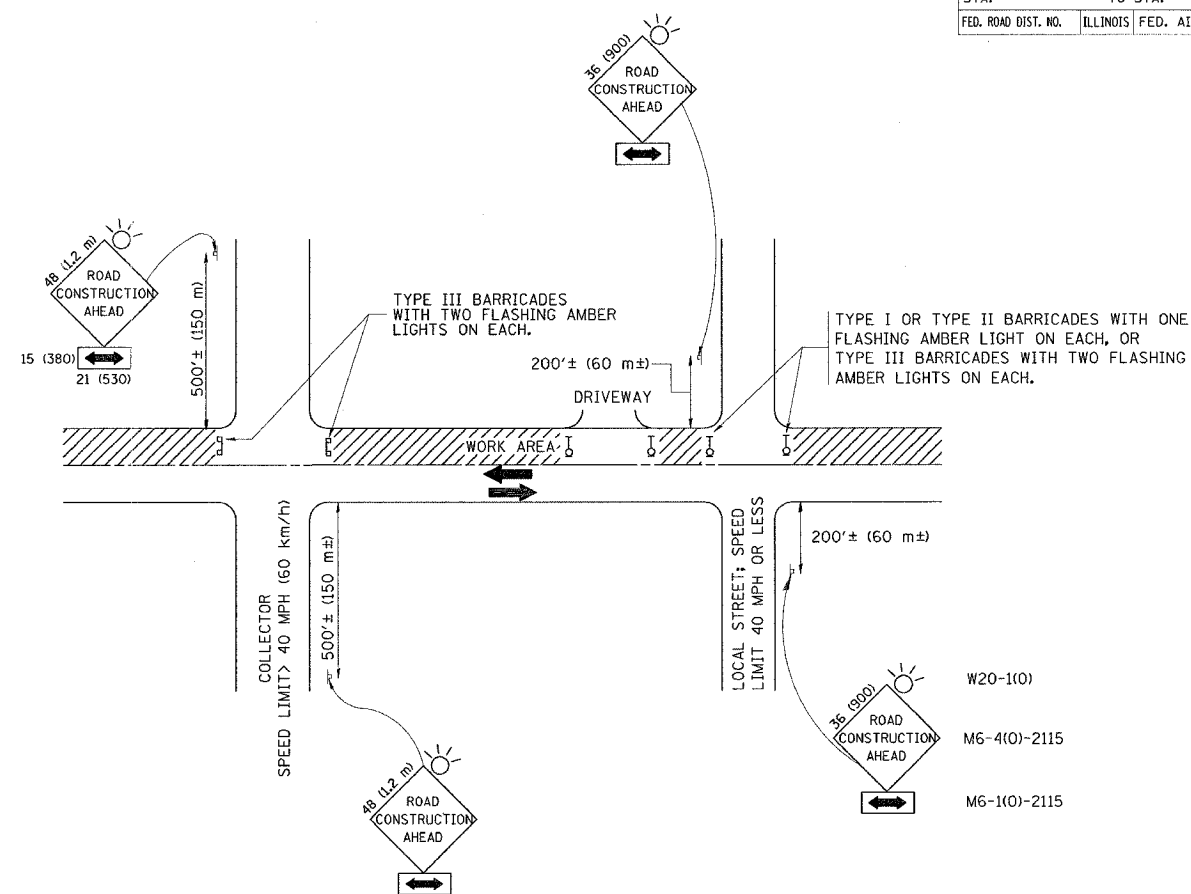
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 3/29/2007

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)
REVISION DATE: 01/01/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



W20-1(0)
M6-4(0)-2115
M6-1(0)-2115

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

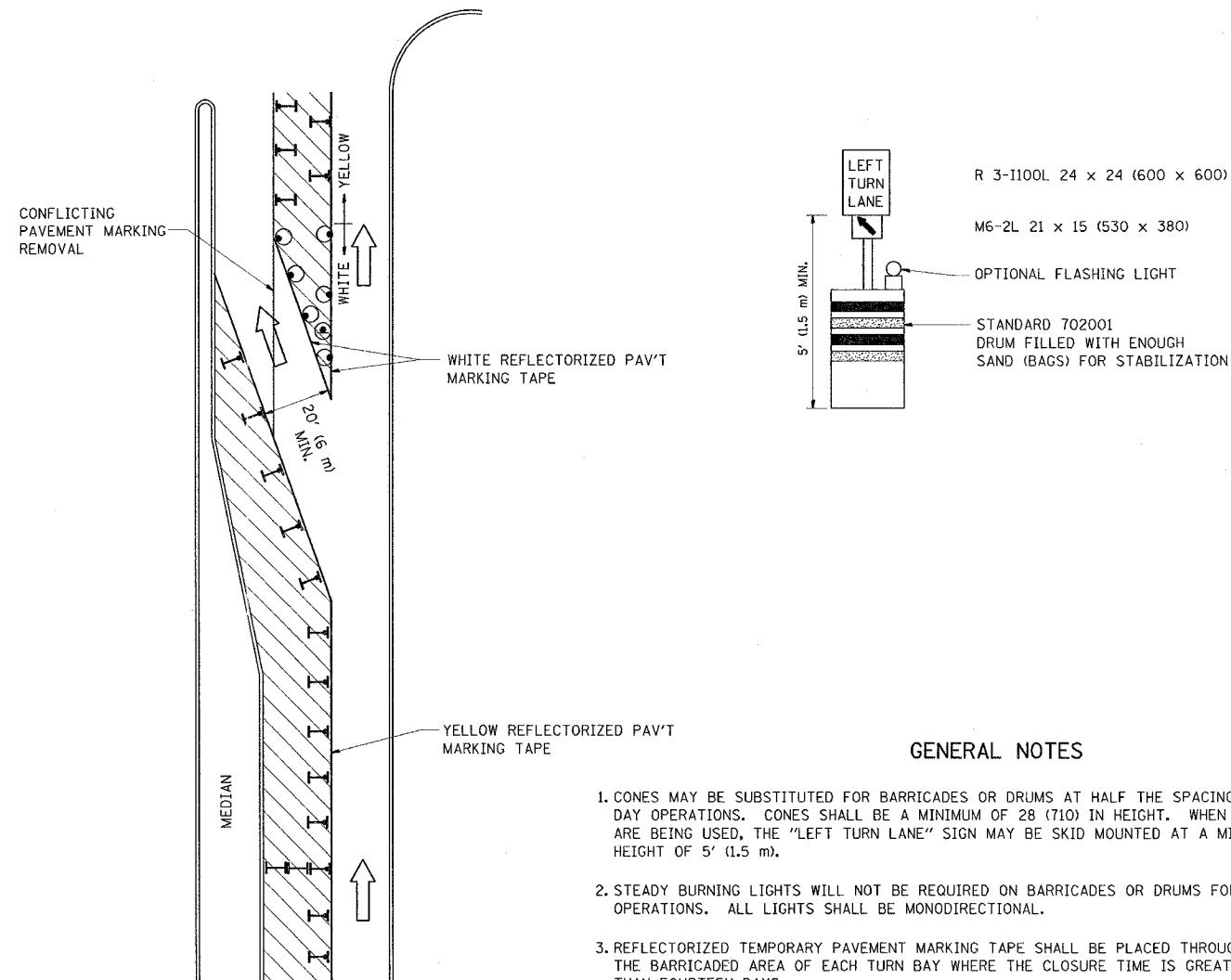
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND
DRIVEWAYS

SCALE:
DATE: 3/29/2007

DRAWN BY
CHECKED BY
TC-10

REVISION DATE: 01/06/00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

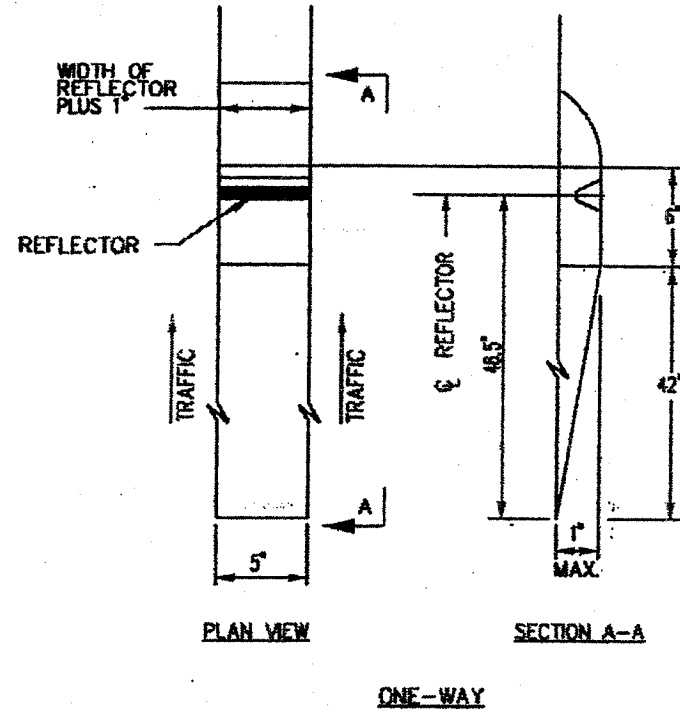
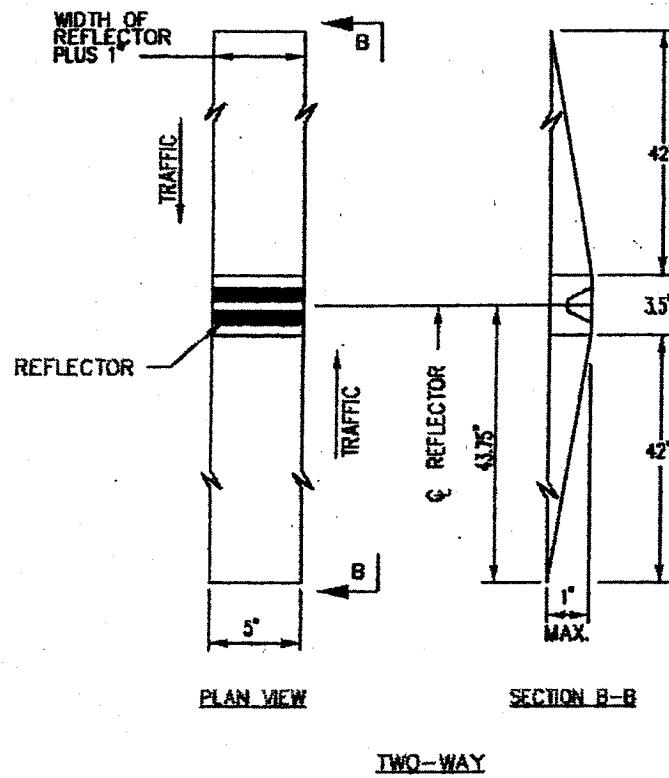
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE
 DATE: 3/29/2007

DRAWN BY
 CHECKED BY LHA

TC-14
 REVISION DATE: 01/06/00

F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES:

1. Installation shall conform to IDOT Highway Standard 781001-02 (or latest) for marker placement.
2. IDOT Standard 781001-02 shall be modified to reflect recessed pavement markers instead of raised pavement markers.

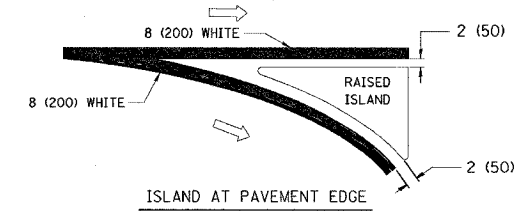
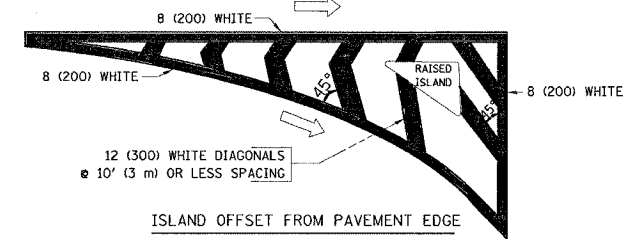
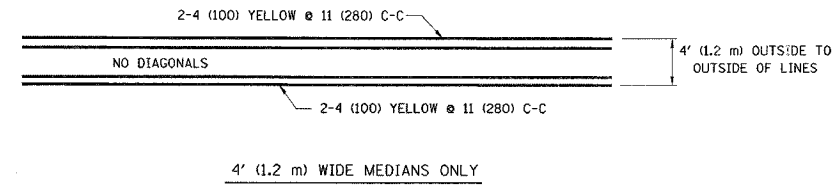
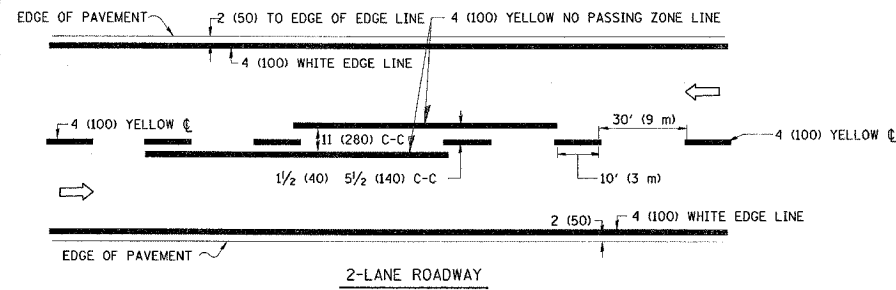
RECESSED REFLECTIVE PAVEMENT MARKERS

INSTALLATION NOTES:

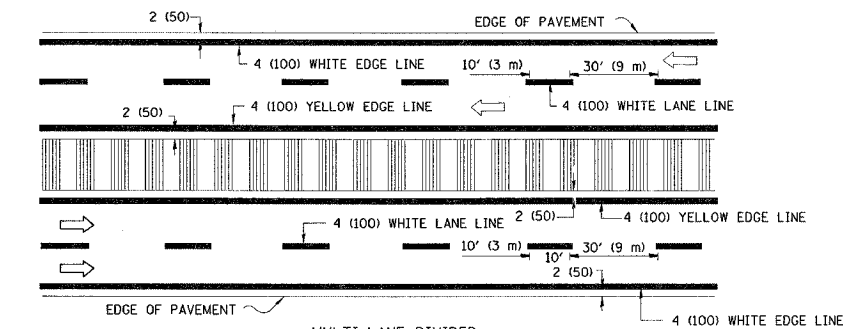
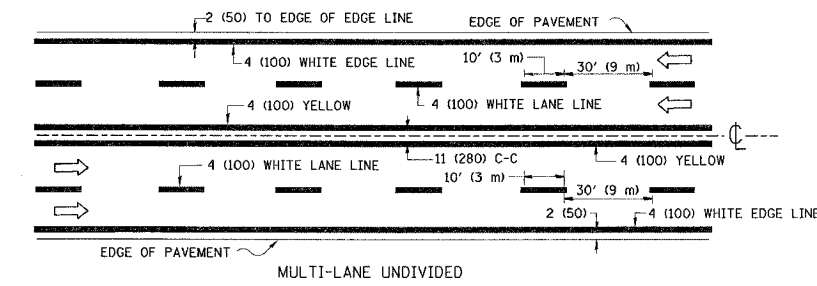
1. Saw cut to dimensions shown.
2. Sawcut areas to be dry and free of material that adversely affects the adhesive bond.
3. Install the reflector with an approved two-component epoxy adhesive. Epoxy should not obscure or block the lens.
4. Install top of reflector 1/2 to 1/4 inch below the pavement surface.
5. Reflector shall be 3M Series 190.

TYPICAL
RECESSED REFLECTIVE
PAVEMENT MARKERS
STANDARD KC781001-03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

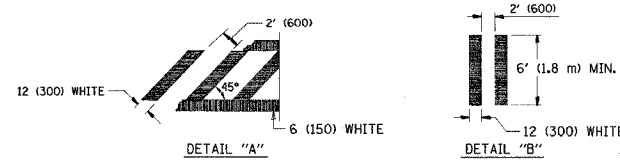
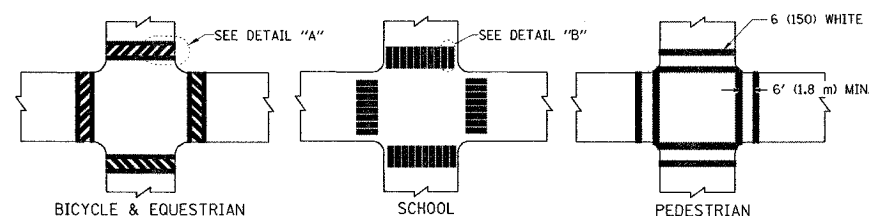


TYPICAL ISLAND MARKING

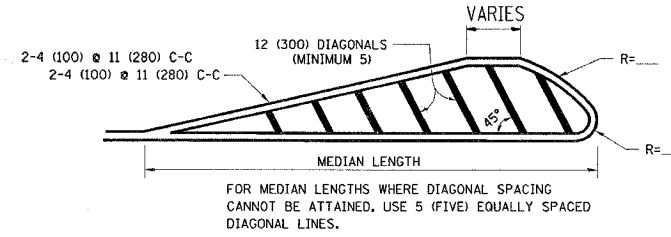


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

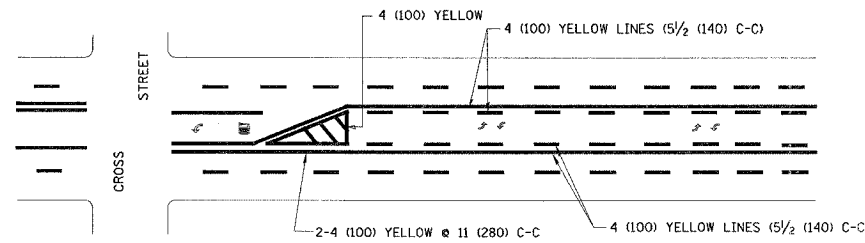
TYPICAL LANE AND EDGE LINE MARKING



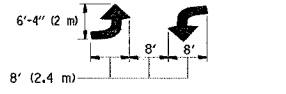
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

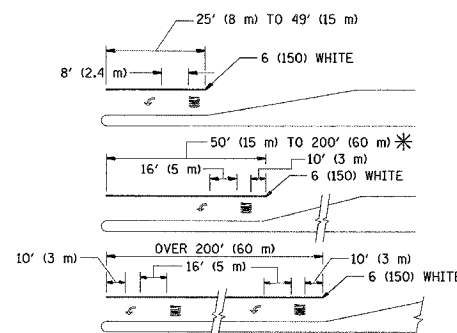


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

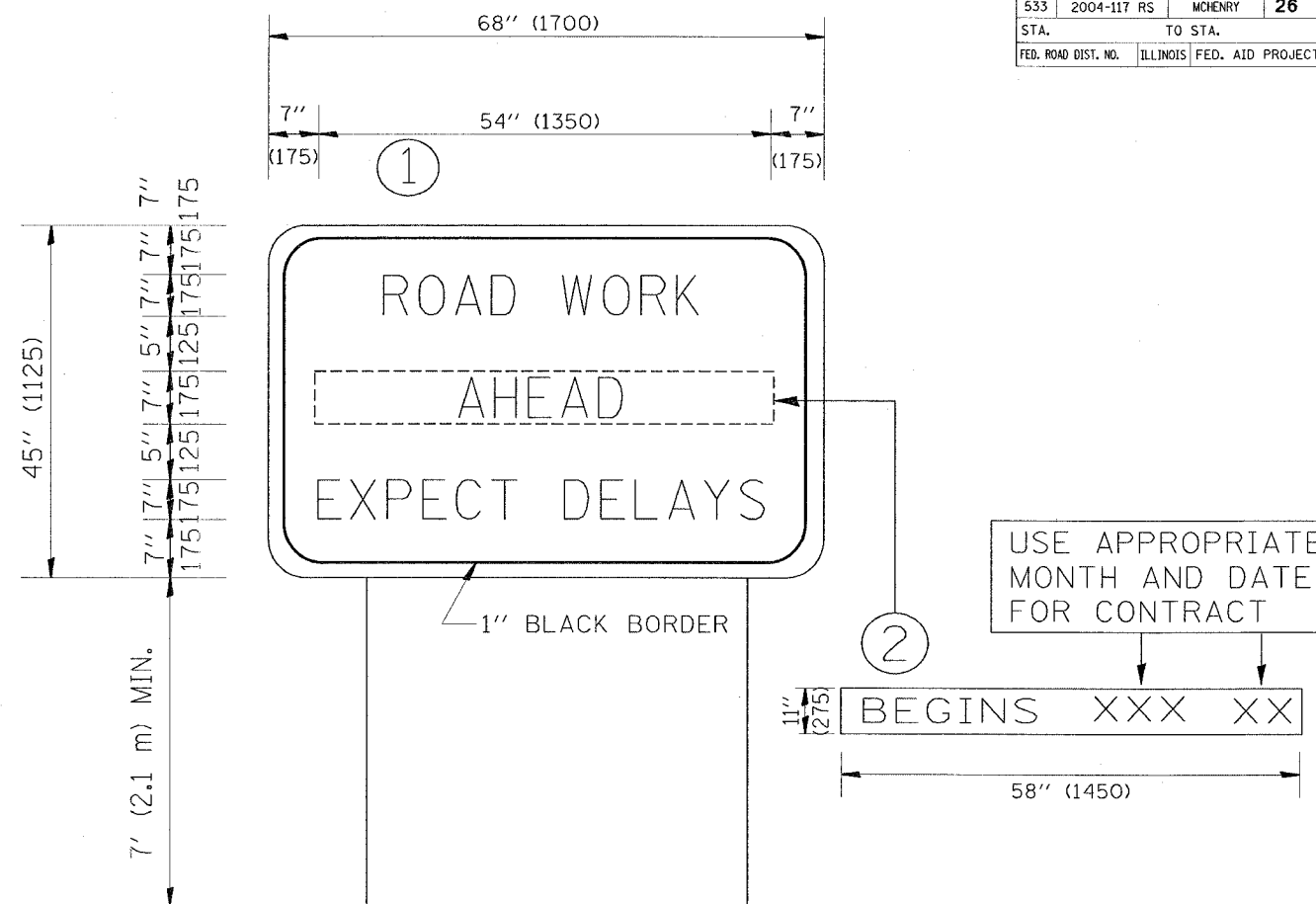
DISTRICT ONE
TYPICAL PAVEMENT
MARKINGS

SCALE: NONE
DATE: 3/29/2007

DRAWN BY CADD
CHECKED BY

TC-13
REVISION DATE: 01/06/00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

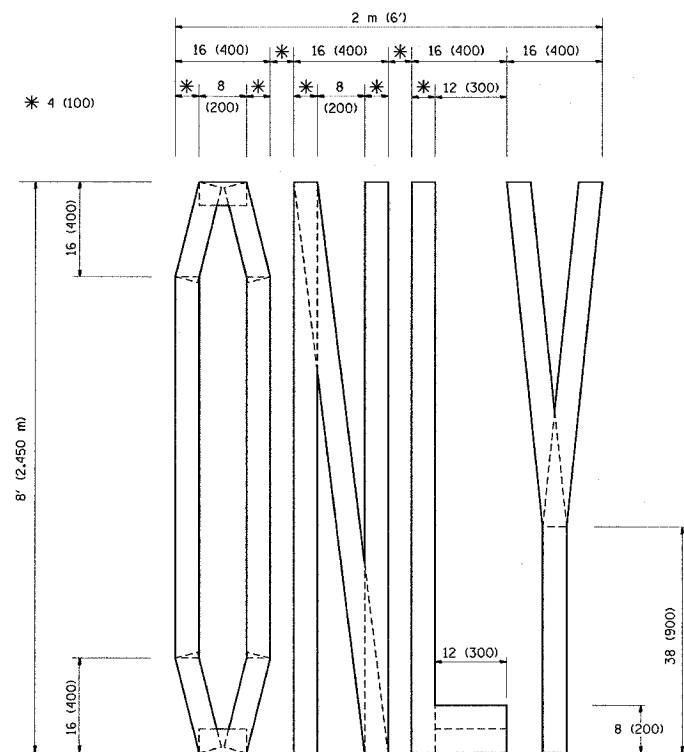
REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY INFORMATION SIGNING

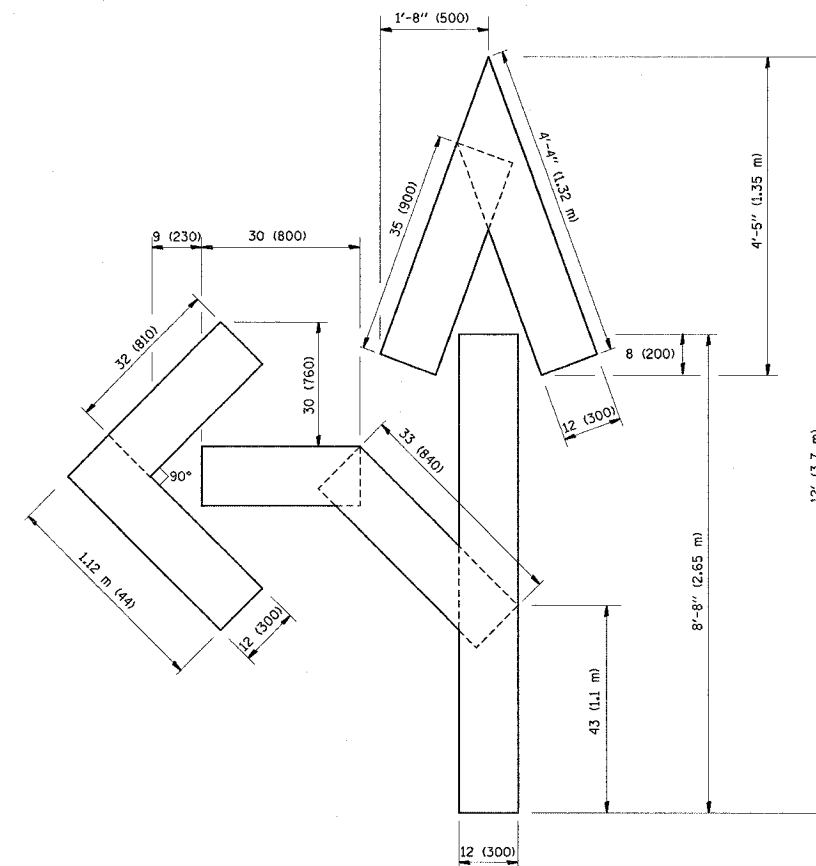
SCALE:
 DATE: 3/29/2007

DRAWN BY DESIGN
 CHECKED BY
 TC22
 REVISION DATE: 02/02/99

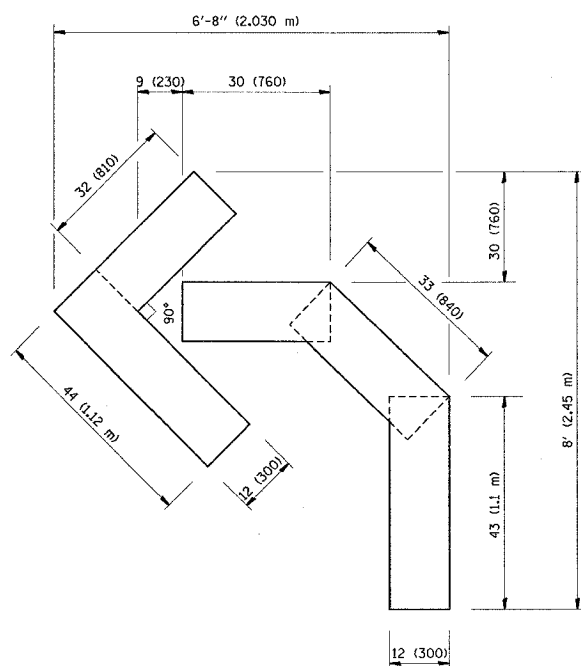
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004-117 RS	MCHENRY	26	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

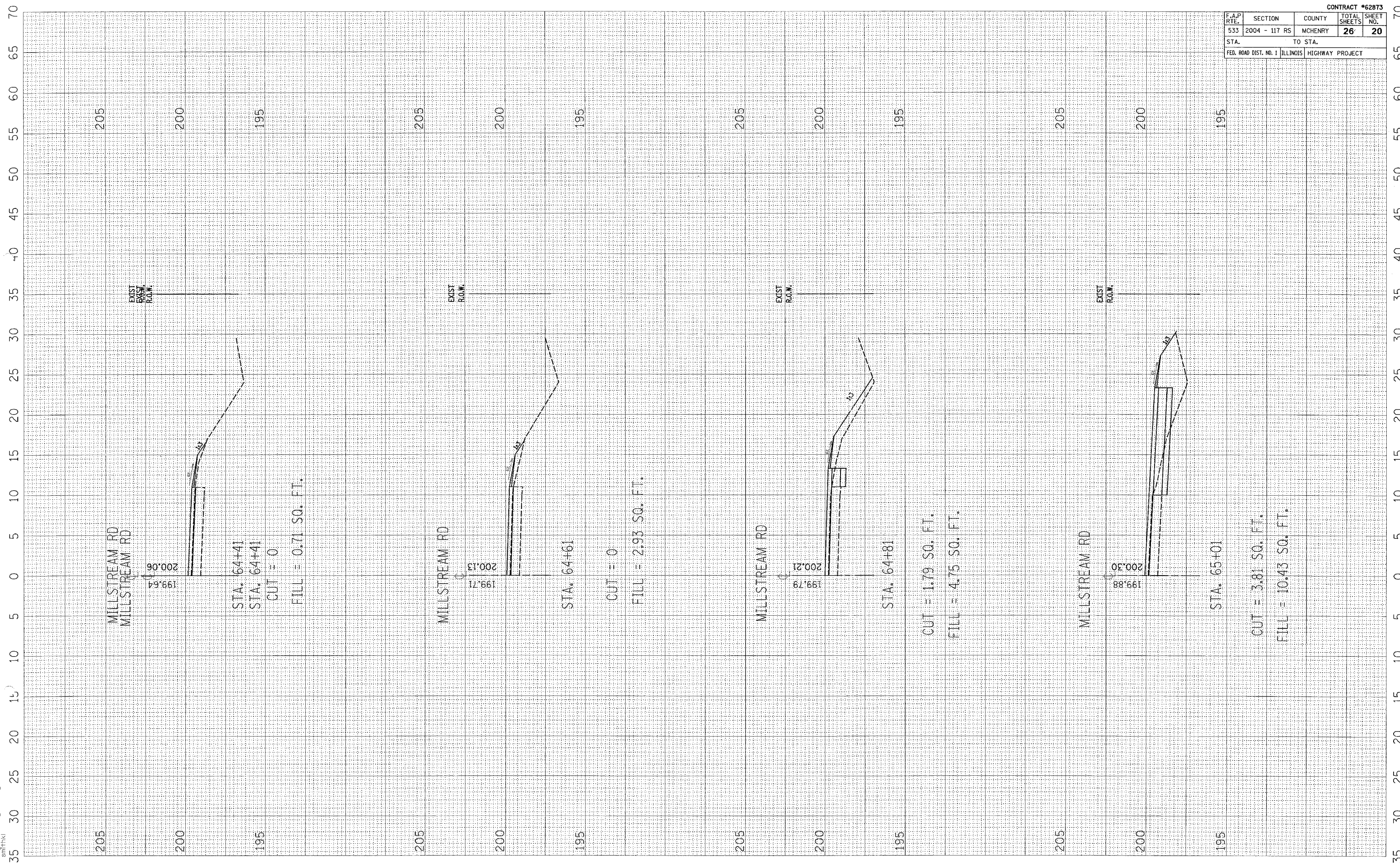
PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE
 DATE: 3/29/2007

DRAWN BY CADD
 CHECKED BY
 TC-16

REVISION DATE: 08/28/00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	20
STA. 2004 - 117 RS		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



MILLSTREAM RD
 MILLSTREAM RD

199.64
 200.06

STA. 64+41
 STA. 64+41
 CUT = 0
 FILL = 0.71 SQ. FT.

MILLSTREAM RD

199.71
 200.13

STA. 64+61
 CUT = 0
 FILL = 2.93 SQ. FT.

MILLSTREAM RD

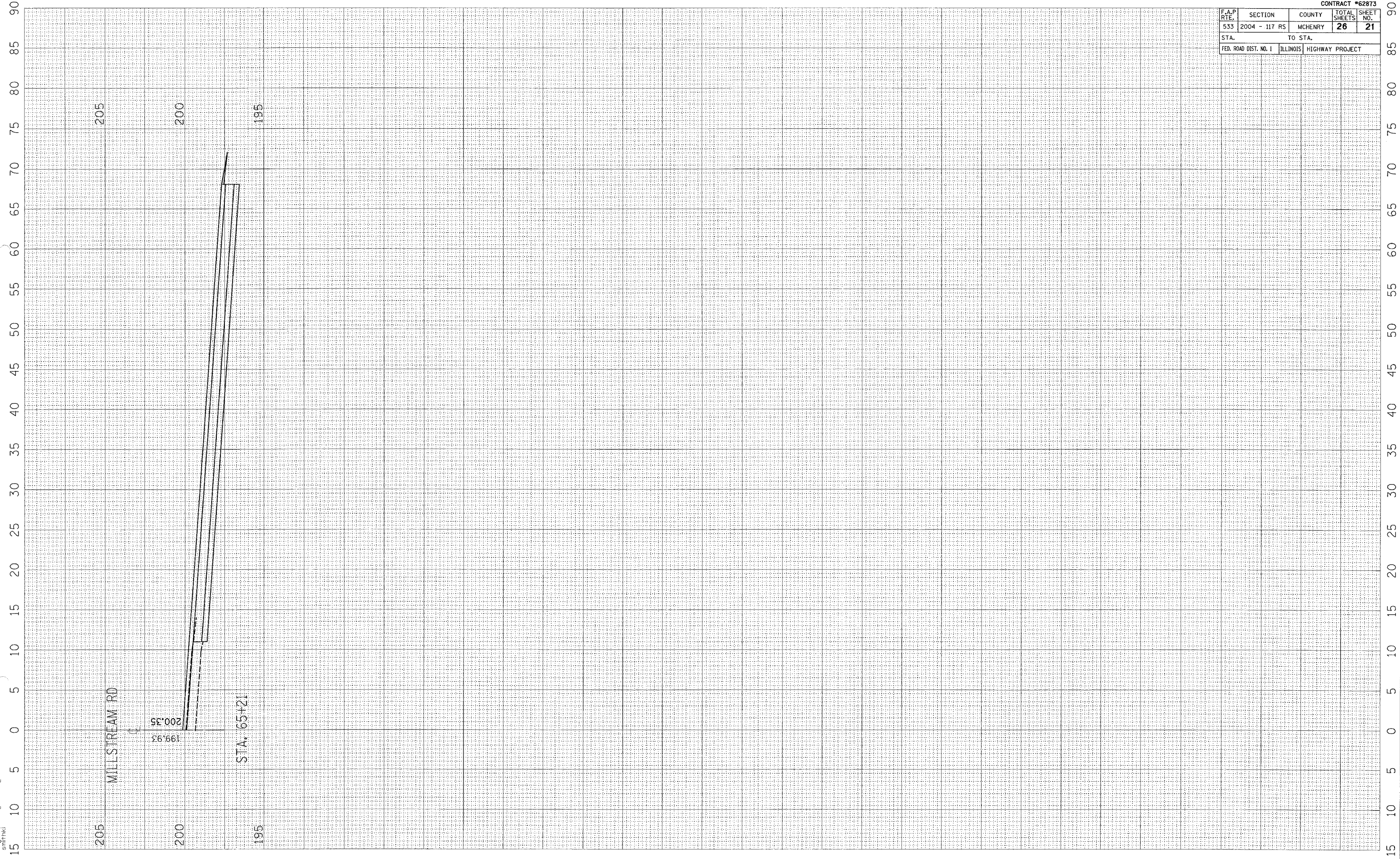
199.79
 200.21

STA. 64+81
 CUT = 1.79 SQ. FT.
 FILL = 4.75 SQ. FT.

MILLSTREAM RD

199.88
 200.30

STA. 65+01
 CUT = 3.81 SQ. FT.
 FILL = 10.43 SQ. FT.



CONTRACT #62873

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

GARDEN VALLEY RD.

199.96
200.38

STA. 100+20

205

200

195

GARDEN VALLEY RD.

199.98
200.40

STA. 100+40

CUT = 4.19 SQ. FT.
FILL = 6.05 SQ. FT.

205

200

195

GARDEN VALLEY RD.

199.99
200.41

STA. 100+62

CUT = 2.11 SQ. FT.
FILL = 7.80 SQ. FT.

205

200

195

GARDEN VALLEY RD.

199.93
200.35

STA. 100+80

CUT = 2.15 SQ. FT.
FILL = 6.34 SQ. FT.

205

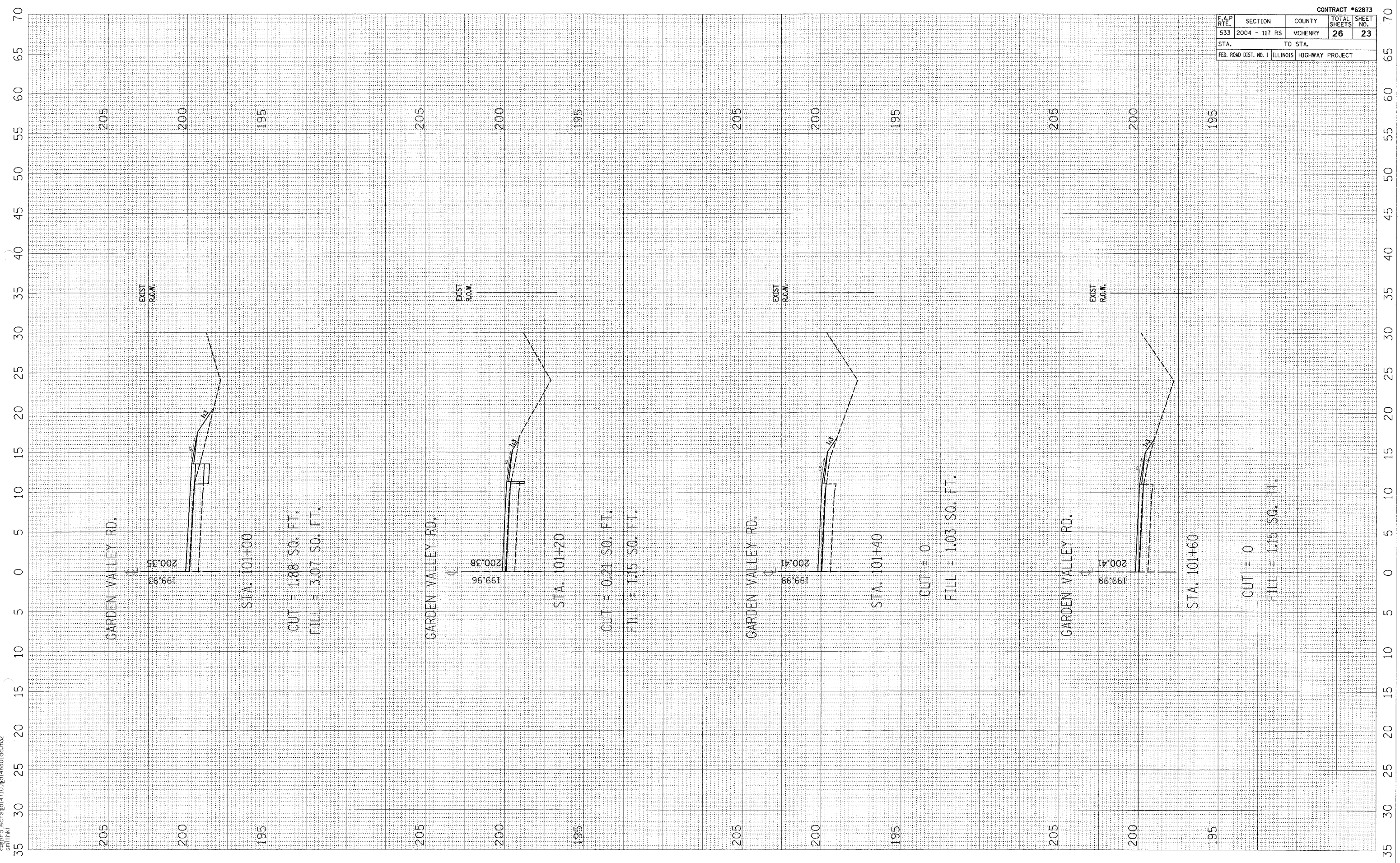
200

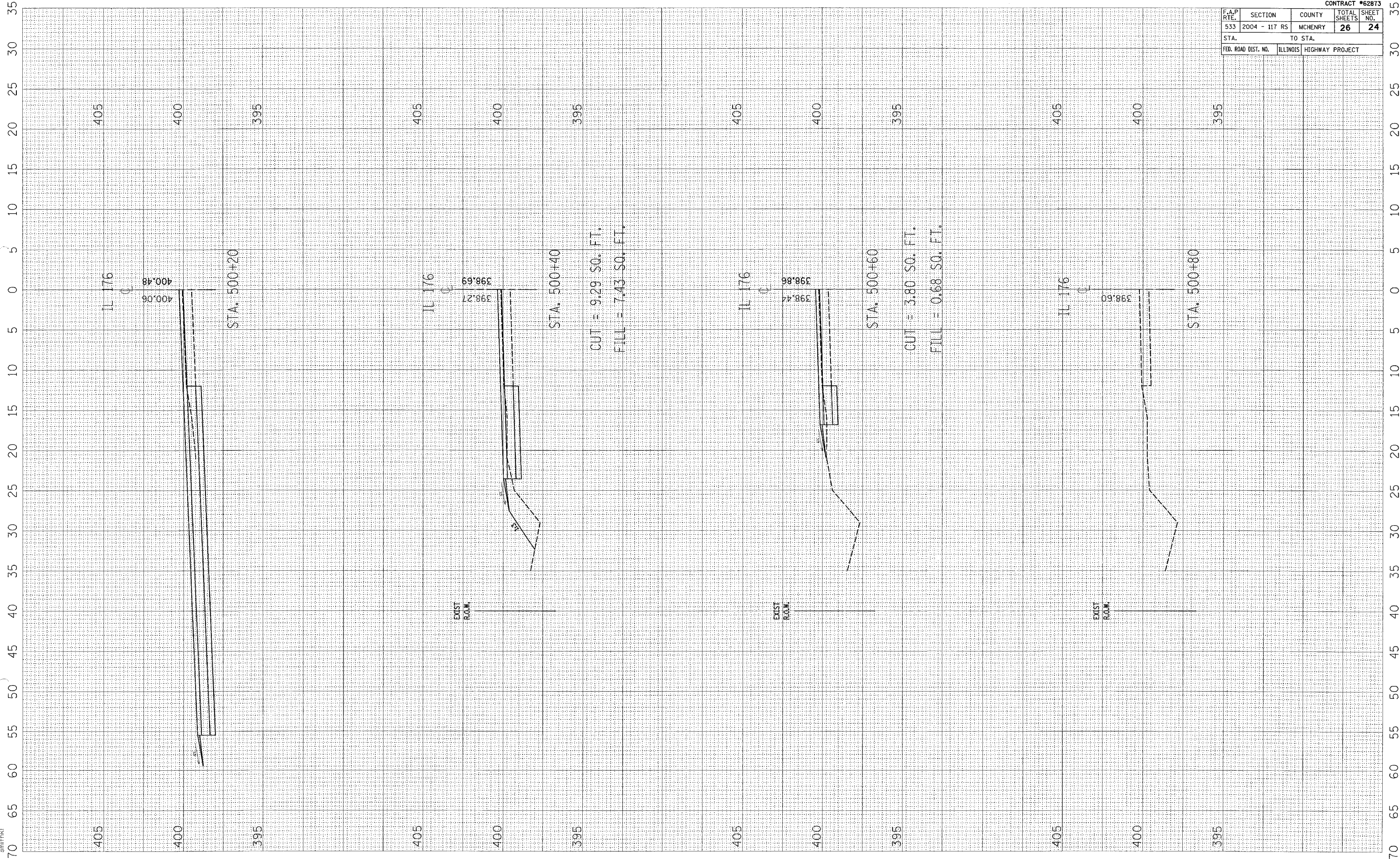
195

CONTRACT #62873				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

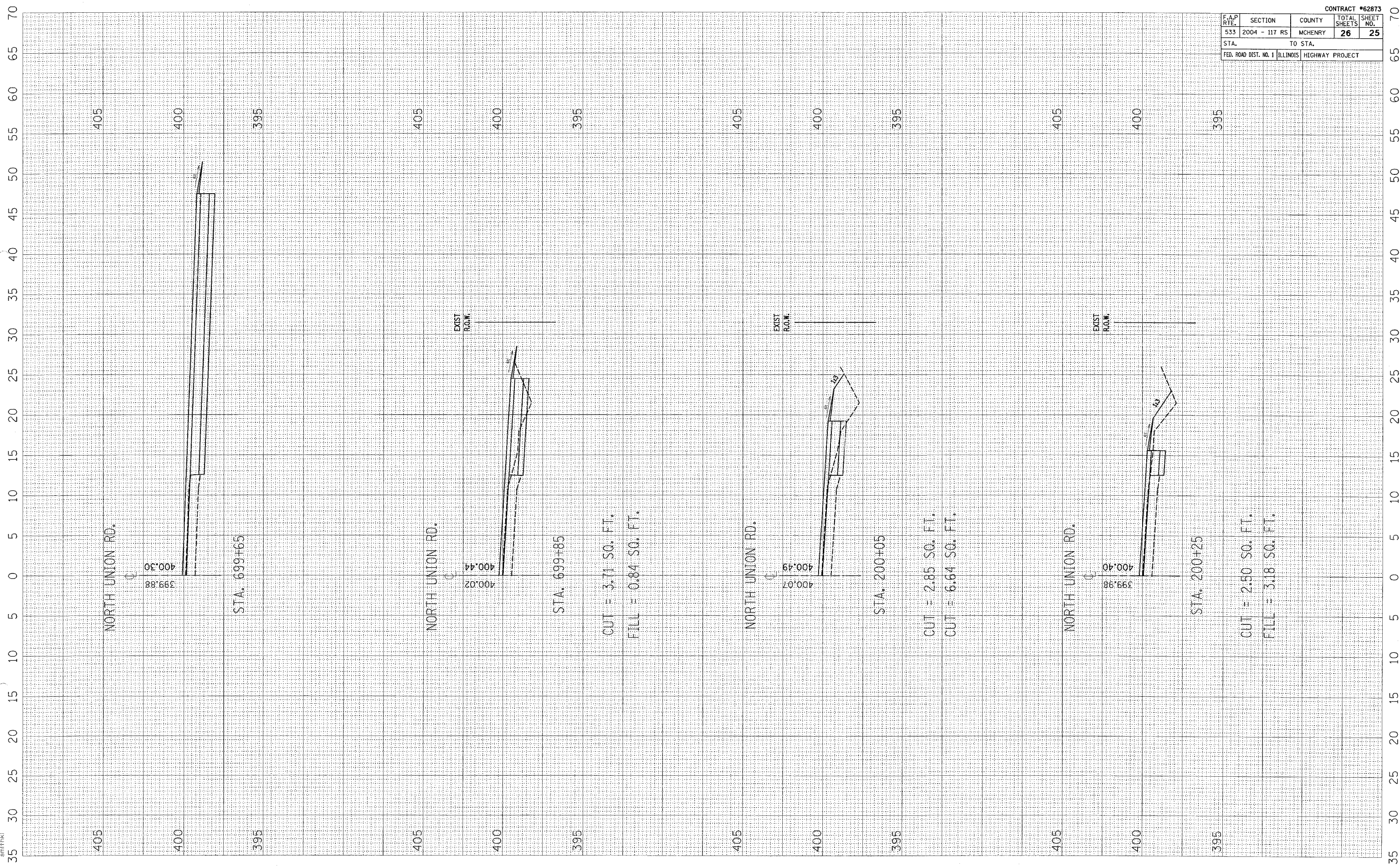
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	23
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT		



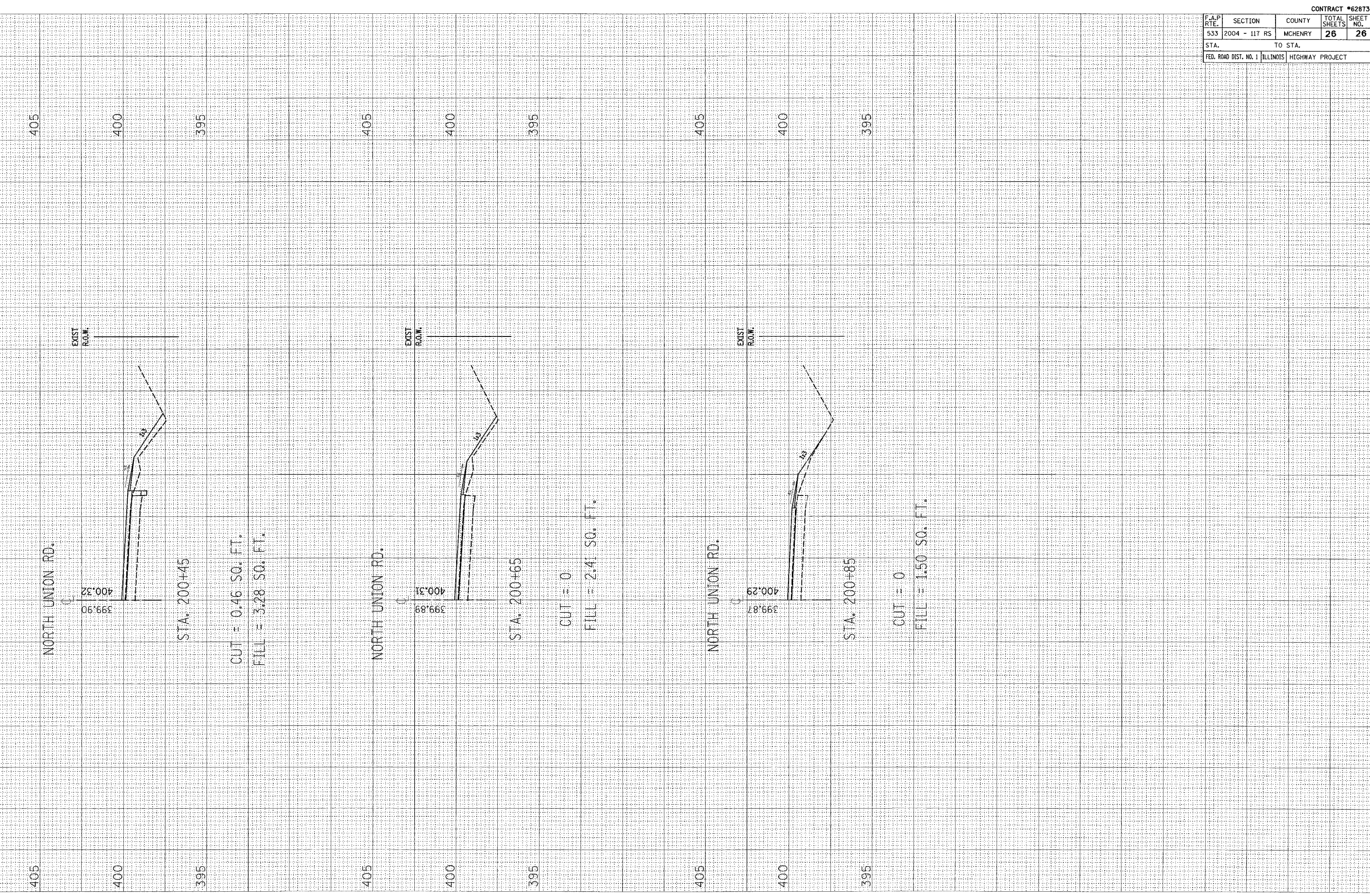


CONTRACT #62873				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	HIGHWAY PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	25
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



NORTH UNION RD.

400.32
399.90

EXIST
R.O.W.

STA. 200+45

CUT = 0.46 SQ. FT.
FILL = 3.28 SQ. FT.

NORTH UNION RD.

400.31
399.89

EXIST
R.O.W.

STA. 200+65

CUT = 0
FILL = 2.41 SQ. FT.

NORTH UNION RD.

400.29
399.87

EXIST
R.O.W.

STA. 200+85

CUT = 0
FILL = 1.50 SQ. FT.

CONTRACT #62873				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	2004 - 117 RS	MCHENRY	26	26
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		