

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00061-00-RS	MCHENRY	10	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63232		

INDEX OF SHEETS

- 1 COVER SHEET INDEX OF SHEETS, LIST OF STATE STANDARDS
- 2 GENERAL NOTES & SUMMARY OF QUANTITIES & SCHEDULE OF QUANTITIES
- 3 TYPICAL SECTIONS
- 4-5 ROADWAY PLAN - GARFIELD STREET
- 6-10 CONSTRUCTION DETAILS

LIST OF STATE STANDARDS

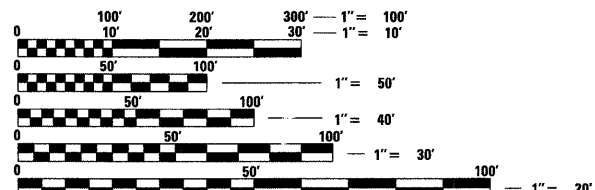
- 442201-03 CLASS C AND D PATCHES
- 606001-04 CONCRETE CURB TYPE B COMBINATION CONCRETE CURB AND GUTTER
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS

TRAFFIC DATA

ADT:
GARFIELD STREET (LOCAL COLLECTOR) 1,400 VPD (2007) 2,100 VPD (2020)

POSTED SPEED DESIGN SPEED

25 MPH (EXISTING) 30 MPH (PROPOSED)
25 MPH (PROPOSED)



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.

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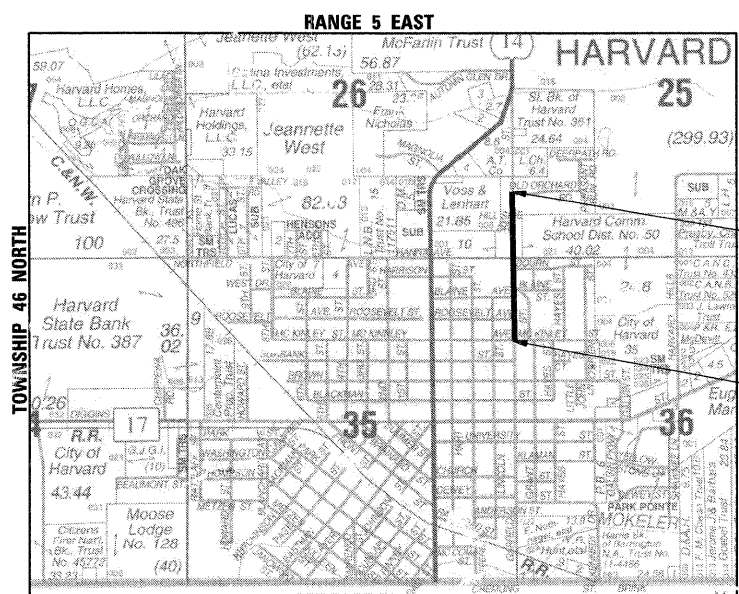
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**FAU 0007 (GARFIELD STREET)
MCKINLEY STREET TO OLD ORCHARD**

**SECTION NO.: 09-00061-00-RS
PROJECT NO.: ARA-9003(449)
CITY OF HARVARD
MCHENRY COUNTY
C-91-899-09**

PROJECT LOCATION MAP



MCKINLEY STREET
PROJECT ENDS
STA. 34+80

MCKINLEY ST
PROJECT BEGINS
STA. 9+65

PROJECT LOCATION MAP

N.T.S.

PROJECT LENGTH

GROSS LENGTH OF PROJECT = 2515 FT (0.476 MI)
NET LENGTH OF PROJECT = 2515 FT (0.476 MI)

CONTRACTS



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

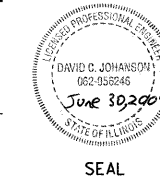
APPROVED *July 1, 2009*
David A. Nelson
CITY OF HARVARD - CITY ADMINISTRATOR

PASSED *July 16, 2009*
Cheryl A. Hershberger
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW *July 16, 2009*
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

David C. Johanson
DAVID C. JOHANSON
EXPIRES: 11-30-09



SEAL

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OF THE STATE OF ILLINOIS**

CONTRACT NO. 63232

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH, P.E. (847) 705-4169

COMPANY NAME: Smith Contracting
PROJECT CONTACT: Kevin Stallworth
DATE PLOTTED: 6/29/2009 3:20:09 PM
FILE NAME: 090134-cvr-dgn
PLOT DRIVER: pat.pat
PEN TABLE: standard-trans.tbl

GENERAL NOTES

- 1 THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
- 2 FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
- 3 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF HARVARD.
- 4 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE CITY.
- 5 PROPOSED PAVEMENT SHALL MATCH EXISTING PAVEMENT ACCORDING TO THE TRANSITION DETAILS SHOWN IN THE CONSTRUCTION DETAILS.
- 6 THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT MIX ASPHALT LIFTS.
- 7 THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.08 GAL/SQ-YD BEFORE BINDER AND SURFACE COURSE PLACEMENT.
- 8 PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

9 SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.

10 QUANTITIES FOR PATCHING SHALL NOT EXCEED THOSE PROVIDED IN THE SUMMARY OF QUANTITIES UNLESS APPROVED BY THE ENGINEER. THE ENGINEER WILL IDENTIFY FINAL PATCH LOCATIONS IN THE FIELD.

11 PAVEMENT PATCHING SHALL BE COMPLETED AFTER HOT-MIX ASPHALT SURFACE REMOVAL. ALL PATCHING SHALL BE FULL DEPTH AND CONSTRUCTED UP TO THE ELEVATION OF THE SURFACE AFTER REMOVAL.

12 THE CONTRACTOR SHALL MAKE EFFORT TO MINIMIZE DISTURBANCE TO EXISTING PARKWAY. ANY DISTURBANCE CAUSED SHALL BE REPAIRED IN KIND AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED

BOXED ITEMS INDICATE WORK THAT IS INCIDENTAL TO THE CONTRACT

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE
CODE #	PAY ITEM	UNIT	ROADWAY 80% FEDERAL 20% LOCAL 1000
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1318
40600300	AGGREGATE (PRIME COAT)	TON	34
40600625	LEVELING BINDER MACHINE METHOD, N50	TON	557
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	126
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	TON	693
44000155	HOT-MIX SURFACE REMOVAL 1-1/2"	SQ YD	8237
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1282.2
44201713	CLASS D PATCHES, TYPE B 6 INCH	SQ YD	825
48101200	AGGREGATE SHOULDER, TYPE B	TON	126.7
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	16
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B#6-12	FOOT	329
67100100	MOBLIZATION	L SUM	1
70101800	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
* 78000400	THERMOPLASTIC PAVEMENT MARKING-LINE, 6 INCH	FOOT	361
XX006806	HOT-MIX ASPHALT DRIVEWAY PAVEMENT	SQ YD	1282.2

* SPECIALTY ITEMS

DRIVEWAY SURFACE, SCHEDULE

SHEET 4		SHEET 5	
11+06 LT	31.8 SQ YD	23+30 LT	35.5 SQ YD
12+15 RT	19.2 SQ YD	25+00 RT	47.7 SQ YD
12+20 LT	58.7 SQ YD	25+18 LT	39.3 SQ YD
13+34 RT	18.9 SQ YD	25+54 LT	18.9 SQ YD
13+17 RT	15.6 SQ YD	26+04 RT	36.7 SQ YD
15+46 LT	67.1 SQ YD	26+74 RT	39.9 SQ YD
15+80 LT	50.7 SQ YD	26+14 LT	17 SQ YD
17+49 LT	101.7 SQ YD	27+57 RT	43.1 SQ YD
21+25 LT	145.7 SQ YD	28+65 RT	65.8 SQ YD
23+00 LT	108.8 SQ YD	29+43 RT	70.8 SQ YD
23+00 RT	68.3 SQ YD	30+44 LT	40.3 SQ YD
		30+83 RT	103.2 SQ YD
		32+73 LT	37.5 SQ YD
	686.5 SQ YD		595.7 SQ YD

AGGREGATE SHOULDER, TYPE B SCHEDULE

SHEET 4		SHEET 5	
10+34 TO 11+00 LT	2.2 TONS	23+08 TO 23+20 LT	0.3 TONS
10+40 TO 12+07 RT	8.6 TONS	23+08 TO 23+18 RT	0.2 TONS
11+12 TO 12+10 LT	3.3 TONS	23+39 TO 24+84 RT	4.7 TONS
12+23 TO 13+30 RT	5.4 TONS	23+40 TO 23+94 LT	1.7 TONS
13+31 TO 13+03 LT	2.5 TONS	24+15 TO 25+09 LT	3.2 TONS
13+47 TO 14+10 RT	3.1 TONS	25+10 TO 25+92 RT	2.7 TONS
13+58 TO 15+31 LT	5.9 TONS	25+29 TO 25+44 LT	0.4 TONS
14+24 TO 18+21 RT	20.5 TONS	25+62 TO 27+07 LT	4.8 TONS
15+61 TO 15+69 LT	0.2 TONS	26+13 TO 26+68 RT	1.8 TONS
15+91 TO 16+35 LT	1.4 TONS	26+89 TO 27+43 RT	1.8 TONS
16+79 TO 17+24 LT	1.9 TONS	27+23 TO 28+81 LT	5.3 TONS
17+74 TO 20+83 LT	10.4 TONS	27+69 TO 28+26 RT	1.9 TONS
21+46 TO 21+54 RT	0.2 TONS	28+72 TO 29+23 RT	1.5 TONS
21+52 TO 22+56 LT	3.5 TONS	29+01 TO 29+43 LT	1.3 TONS
21+59 TO 22+88 RT	4.4 TONS	29+47 TO 30+12 LT	2.2 TONS
	73.5 TONS	29+64 TO 30+54 RT	2.9 TONS
		30+36 TO 31+34 LT	3.2 TONS
		30+76 TO 30+87 RT	0.3 TONS
		31+13 TO 33+19 RT	6.6 TONS
		31+58 TO 32+61 LT	3.2 TONS
		32+85 TO 33+80 LT	2.9 TONS
		33+69 TO 33+80 RT	0.3 TONS
			53.2 TONS



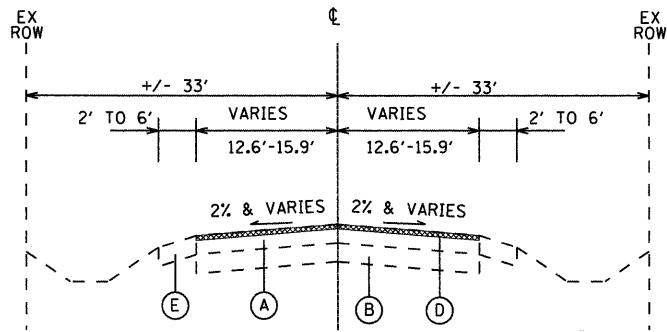
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PLOT SCALE = N/A	DRAWN - DCJ	REVISED -
PLOT DATE = 7/27/2009	CHECKED - GFR	REVISED -
	DATE - 7/1/09	REVISED -

**CITY OF HARVARD
GARFIELD STREET RESURFACING**

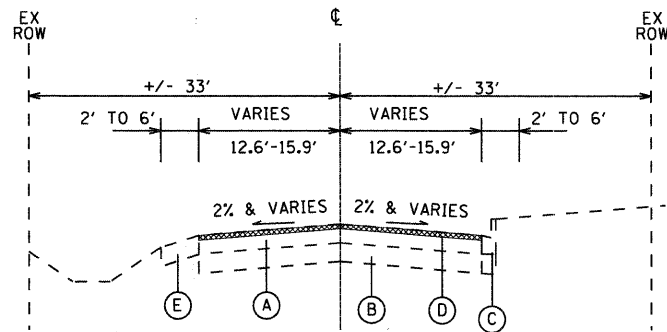
**GENERAL NOTES, SUMMARY OF QUANTITIES
AND SCHEDULE OF QUANTITIES**

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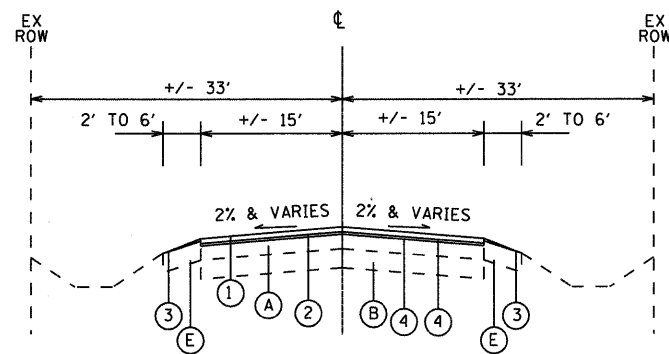
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	09-00061-00-RS	MCHENRY	10	2
CONTRACT NO. 63232				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



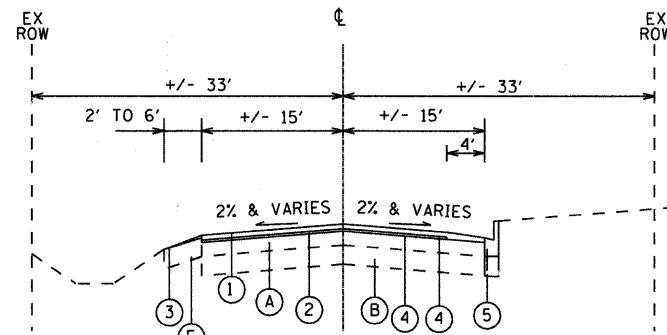
EXISTING
GARFIELD STREET
STATION 9+65 TO 20+11
STATION 21+10 TO 33+80



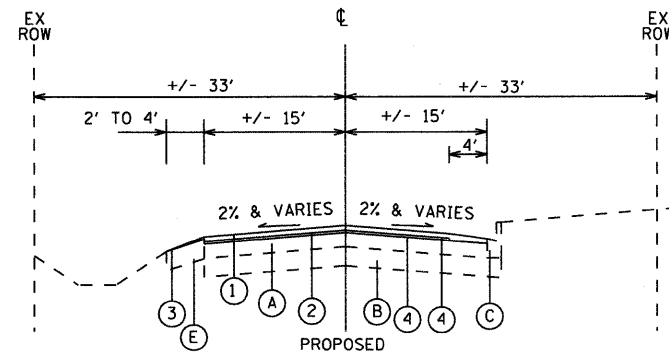
EXISTING
GARFIELD STREET
STATION 20+11 TO 21+10



PROPOSED
GARFIELD STREET
STATION 9+65 TO 18+60;
STATION 21+10 TO 35+80



PROPOSED
GARFIELD STREET
STATION 18+60 TO 20+11
STATION 20+80 TO 21+10



PROPOSED
GARFIELD STREET
STATION 20+11 TO 20+80
STATION 20+98 TO 21+10

GARFIELD STREET ROAD NOTES

1. SEE CONSTRUCTION DETAILS FOR INFORMATION ON HMA TRANSITION AT CURB (SEE SHEET NO 8).
2. SEE CONSTRUCTION DETAILS FOR DRIVEWAY TREATMENT (SEE SHEET NO 8).
3. RESURFACING LIMITS ARE AT EXISTING CURB LINE OR SHOULDER
4. SEE PLAN SHEET FOR LIMITS OF SHOULDER AND CURB SECTIONS
5. PROPOSED CROSS SLOPE WILL MATCH EXISTING CROSS SLOPE

EXISTING LEGEND

- (A) EXISTING BITUMINOUS PAVEMENT
- (B) EXISTING AGGREGATE BASE
- (C) EXISTING CONCRETE CURB OR CURB AND GUTTER
- (D) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 1 1/2"
- (E) EXISTING AGGREGATE SHOULDER

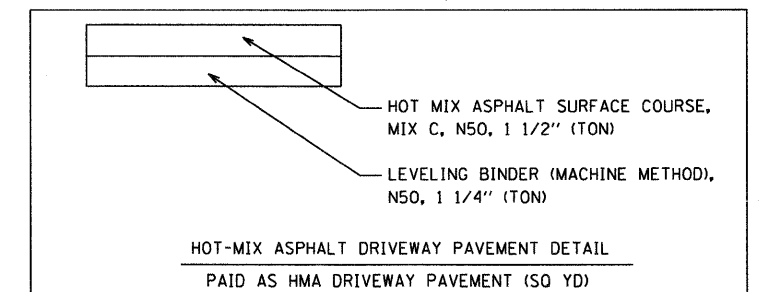
PROPOSED LEGEND

- ① HOT MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2" (TON)
- ② LEVELING BINDER (MACHINE METHOD), N50, 1 1/4" (TON)
- ③ AGGREGATE SHOULDERS, TYPE B (WIDTH VARIES 2'-4')
- ④ BITUMINOUS MATERIALS (PRIME COAT) AND AGGREGATE (PRIME COAT)
- ⑤ COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12

HOT-MIX ASPHALT MIXTURE REQUIREMENT		
ITEM DESCRIPTION	AC TYPE	VOIDS
HOT MIX ASPHALT SURFACE COURSE, MIX C, N50 (IL-9.5mm)	PG 64-22	4.0% @ 50 Gyr.
LEVELING BINDER (MACHINE METHOD), N50	PG 64-22	4.0% @ 50 Gyr.
CLASS D PATCHES, HOT-MIX ASPHALT BINDER COURSE, IL-19.0	PG 64-22	4.0% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATED ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTIFIED IS 112 LBS/SY/IN.

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



USER NAME = djohanson	DESIGNED - D. JOHANSON	REVISED -
PLDT SCALE = N/A	DRAWN - DCJ	REVISED -
PLDT DATE = 6/29/2009	CHECKED - GFR	REVISED -
	DATE - 7/1/09	REVISED -

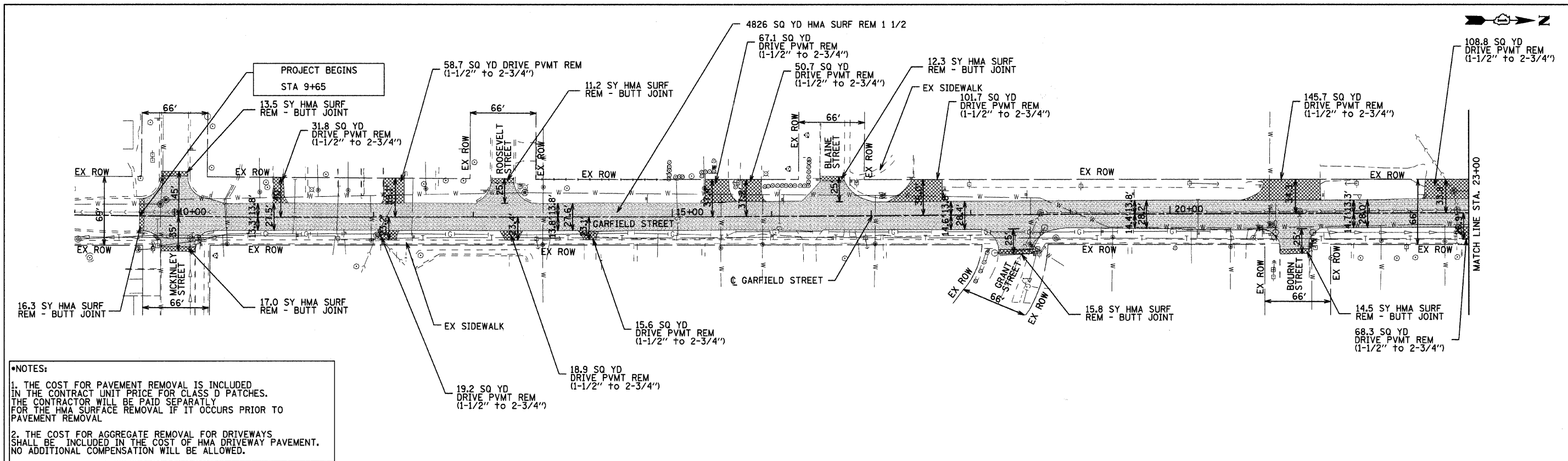
CITY OF HARVARD
GARFIELD STREET RESURFACING

TYPICAL SECTIONS

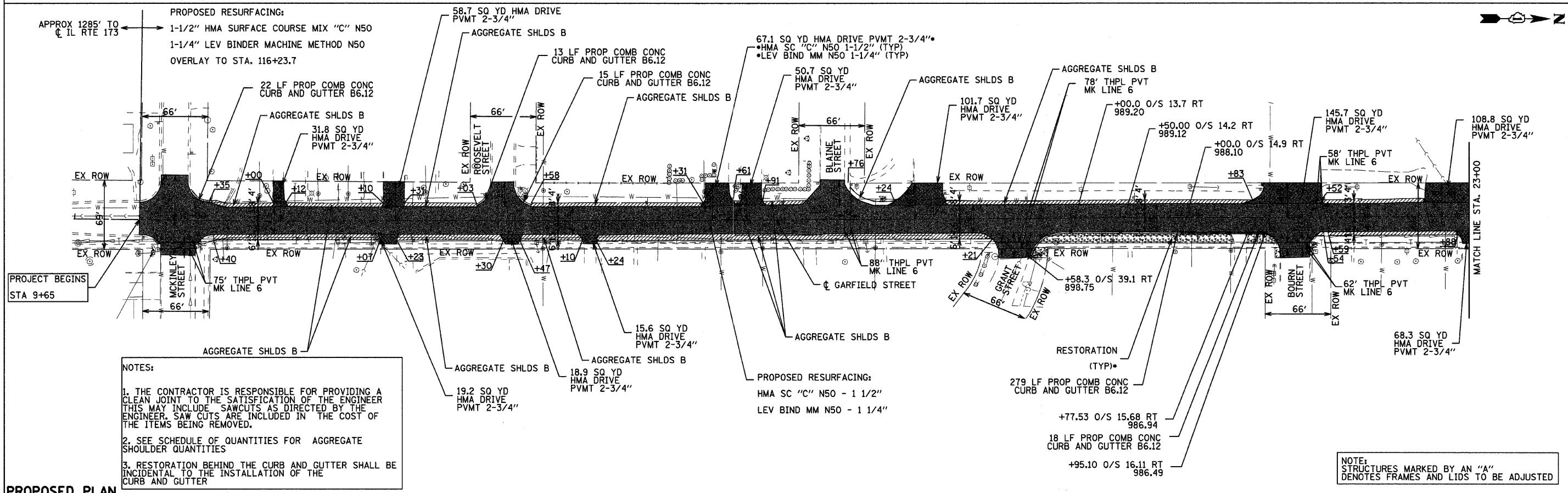
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

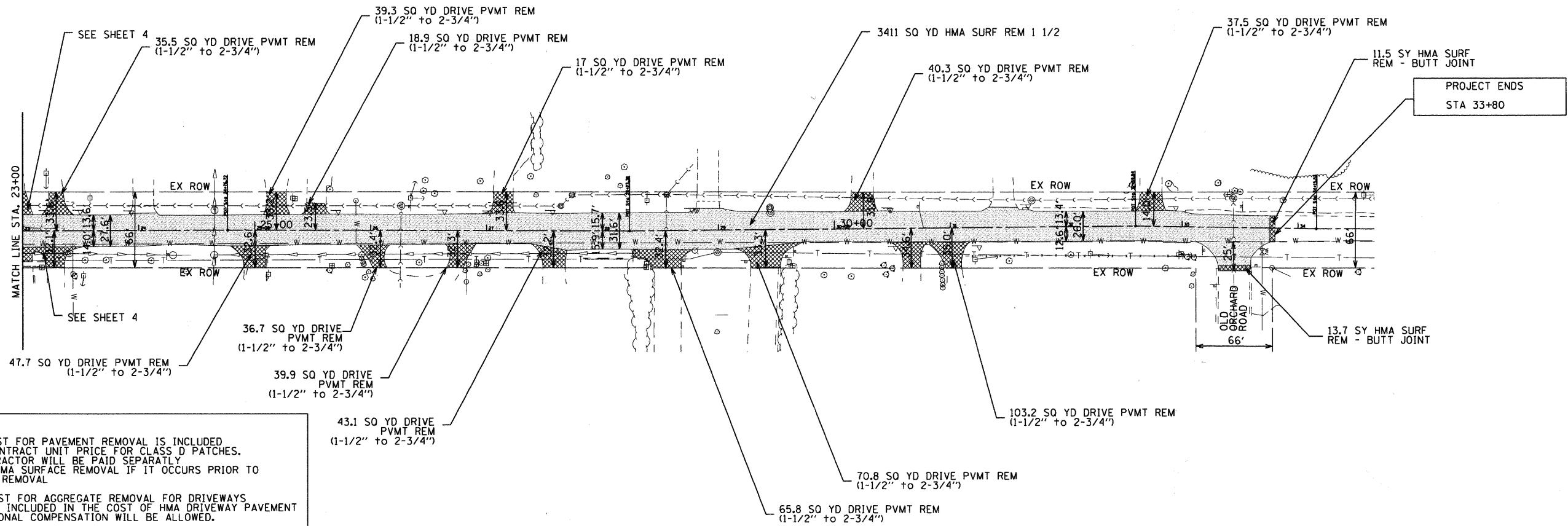
CONTRACT NO. 63232



EXISTING CONDITIONS AND REMOVALS



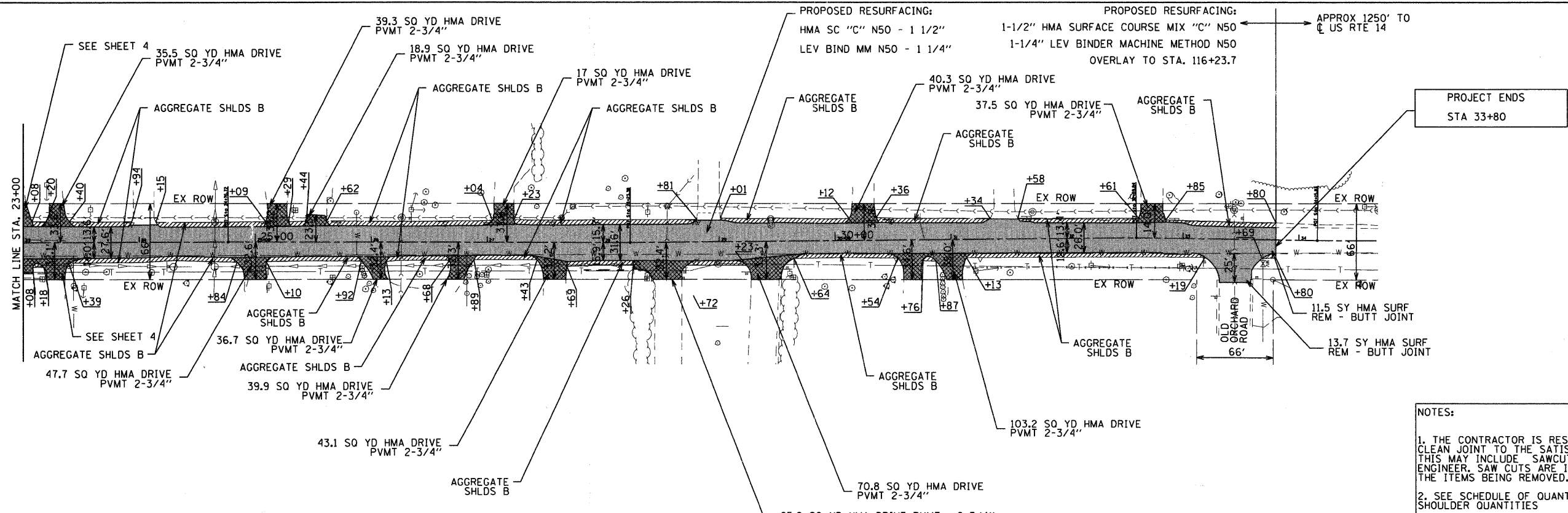
<p>SEC Group, Inc. Engineering Surveying Construction Administration</p> <p>Madison • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = djohanson PLOT SCALE = 1"=50' PLOT DATE = 6/30/2009	DESIGNED - D. JOHANSON DRAWN - DCJ CHECKED - GFR DATE - 7/1/09	REVISED - REVISED - REVISED - REVISED -	<p align="center">CITY OF HARVARD</p> <p align="center">GARFIELD STREET RESURFACING</p>	<p align="center">ROADWAY PLAN</p> <p align="center">GARFIELD STREET</p>	F.A. RTE. SECTION COUNTY TOTAL SHEETS NO. CONTRACT NO. 63232
	SCALE: 1"=50' SHEET NO. 4 OF 10 SHEETS STA. 9+65 TO STA. 23+00				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



NOTES:

1. THE COST FOR PAVEMENT REMOVAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS D PATCHES. THE CONTRACTOR WILL BE PAID SEPARATELY FOR THE HMA SURFACE REMOVAL IF IT OCCURS PRIOR TO PAVEMENT REMOVAL.
2. THE COST FOR AGGREGATE REMOVAL FOR DRIVEWAYS SHALL BE INCLUDED IN THE COST OF HMA DRIVEWAY PAVEMENT NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING CONDITIONS AND REMOVALS



NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CLEAN JOINT TO THE SATISFACTION OF THE ENGINEER THIS MAY INCLUDE SAWCUTS AS DIRECTED BY THE ENGINEER. SAW CUTS ARE INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
2. SEE SCHEDULE OF QUANTITIES FOR AGGREGATE SHOULDER QUANTITIES

NOTE:
STRUCTURES MARKED BY AN "A" DENOTES FRAMES AND LIDS TO BE ADJUSTED

PROPOSED PLAN



USER NAME = djohanson	DESIGNED - D. JOHANSON	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DCJ	REVISED -
PLOT DATE = 6/29/2009	CHECKED - GFR	REVISED -
	DATE - 7/1/09	REVISED -

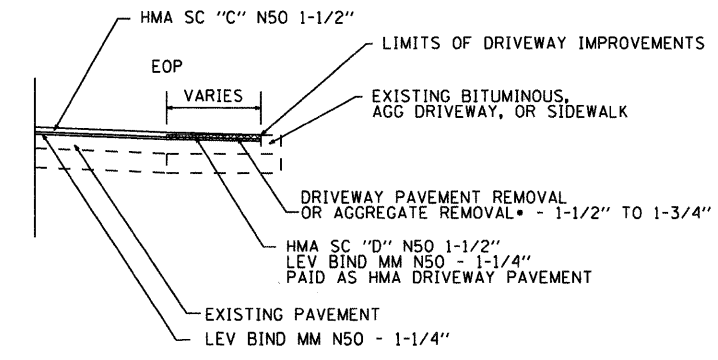
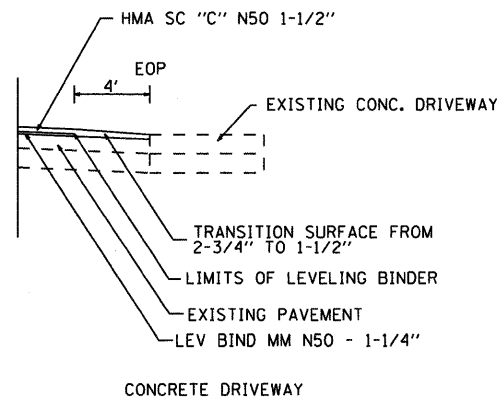
**CITY OF HARVARD
GARFIELD STREET RESURFACING**

**ROADWAY PLAN
GARFIELD STREET**

SCALE: 1"=50' SHEET NO. 5 OF 10 SHEETS STA. 23+00 TO STA. 33+80

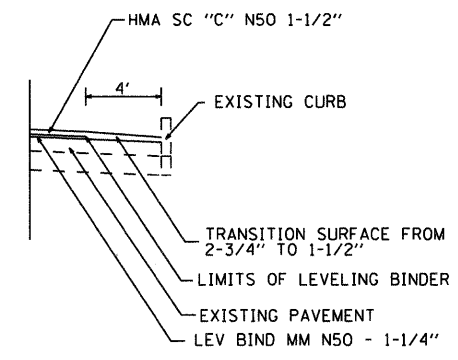
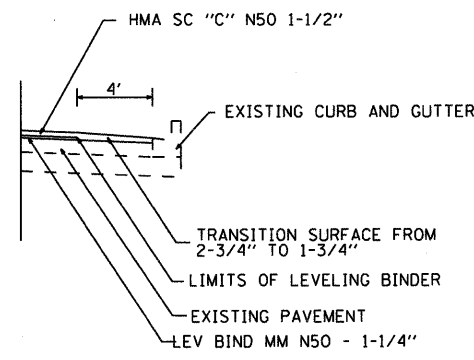
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. **63292**

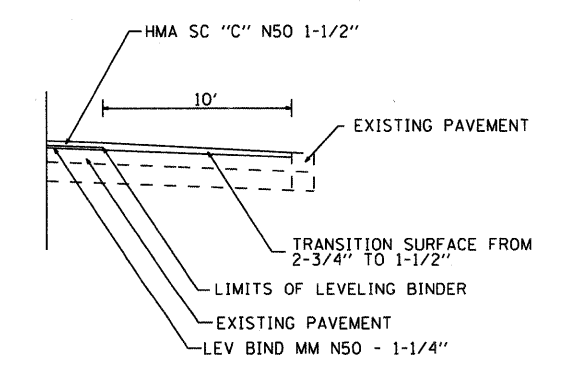


•NOTE: AGGREGATE REMOVAL NECESSARY FOR THE PLACEMENT OF DRIVEWAY SURFACE SHALL BE CONSIDERED INCIDENTAL TO THE PLACEMENT OF HMA DRIVEWAY PAVMT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

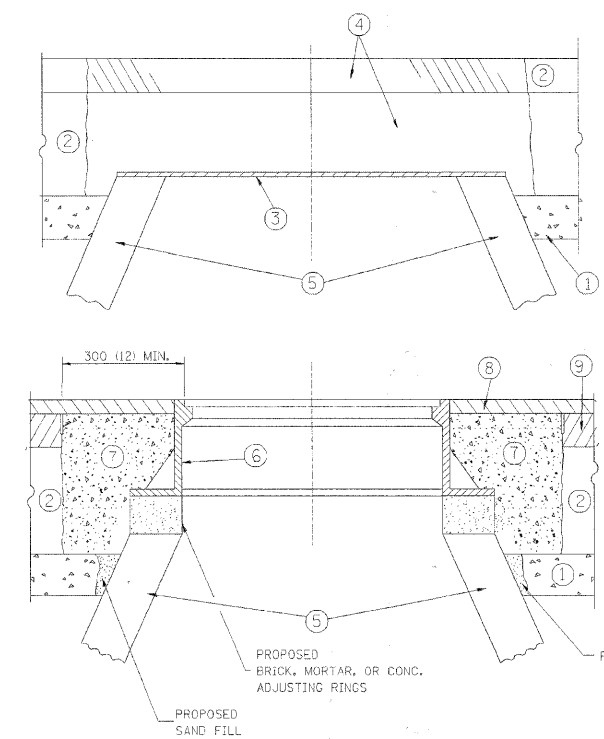
DRIVEWAY TREATMENT DETAIL



HMA TRANSITION AT CURB DETAIL



HMA TRANSITION TO EXISTING PAVEMENT



- CONSTRUCTION PROCEDURES**
- STAGE 1 (BEFORE PAVEMENT MILLING)**
- REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
 - BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 1/2) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.
- STAGE 2 (AFTER PAVEMENT MILLING)**
- REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
 - INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

- LEGEND**
- | | |
|--|--|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS SI CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL |
| ③ 900 (36) DIAMETER METAL PLATE | ⑧ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL | ⑨ PROPOSED BITUMINOUS CONCRETE BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE RECONSTRUCTION PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

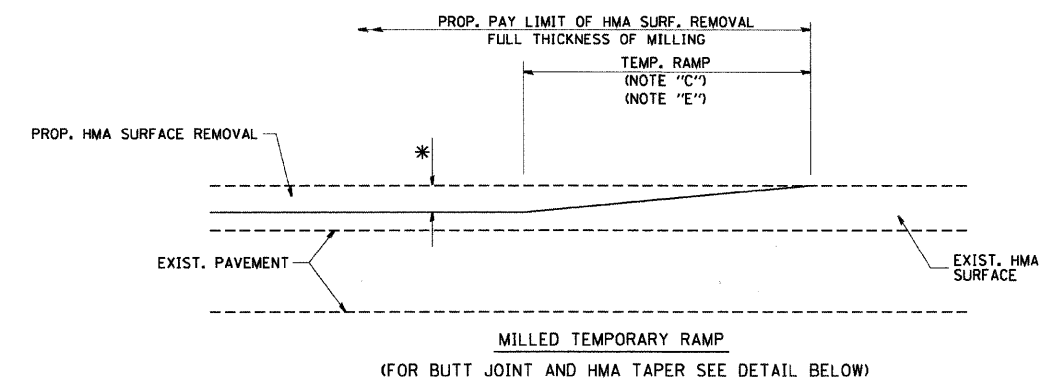
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE
DATE: 10/18/2002

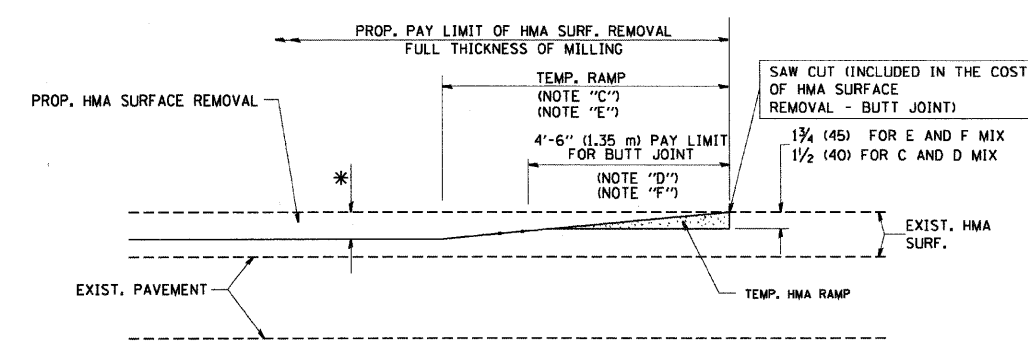
DRAWN BY
CHECKED BY
BD600-03 (BD-8)
REVISION DATE: 03/21/98

GARFIELD STREET RESURFACING
MAY-290134
090134-04101.dgn

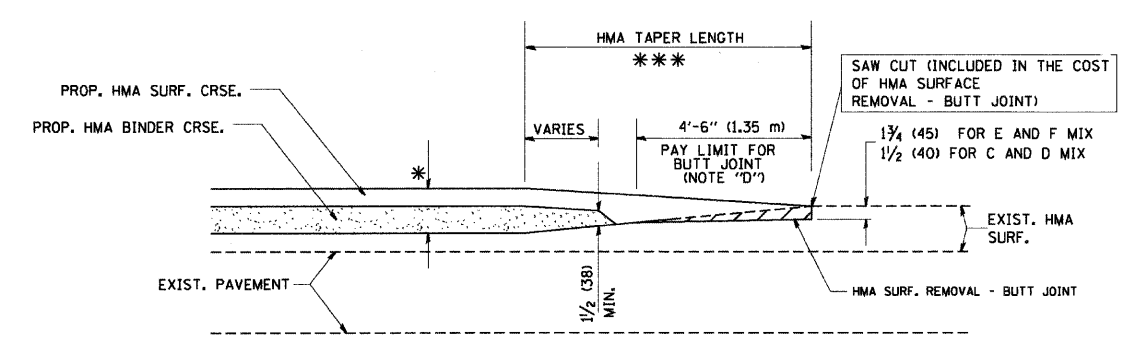
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



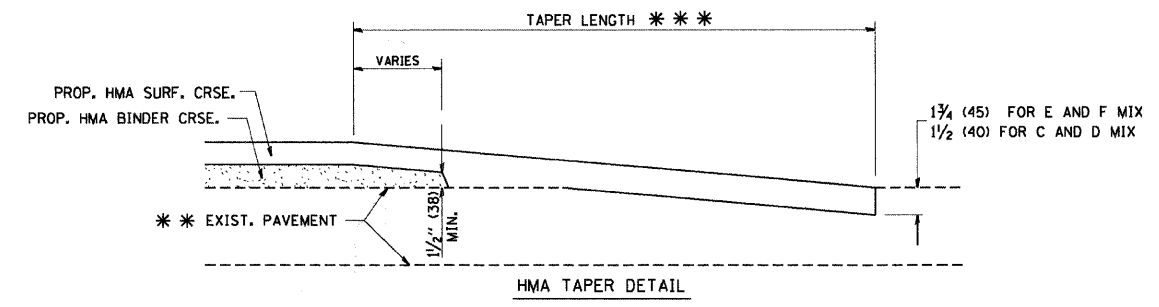
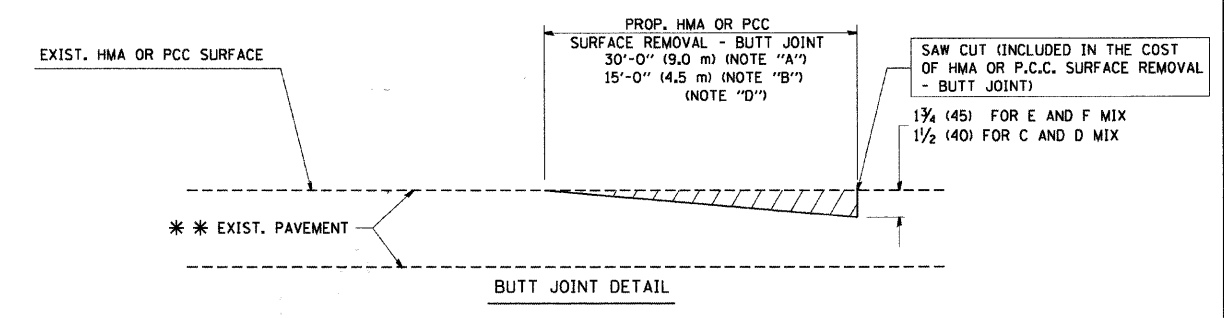
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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. 1"=10'
PLOT DATE: 1/18/2007
DRAWN BY
CHECKED BY
BD400-05 (VI=BD32)
REVISION DATE: 01/01/07

PLOT DATE = 1/18/2007
 FILE NAME = c:\projects\11111111\11111111.dwg
 USER NAME = d.johanson



USER NAME = d.johanson	DESIGNED - D. JOHANSON	REVISED -
PLOT SCALE = N/A	DRAWN - DCJ	REVISED -
PLOT DATE = 6/29/2009	CHECKED - GFR	REVISED -
	DATE - 7/1/09	REVISED -

**CITY OF HARVARD
GARFIELD STREET RESURFACING**

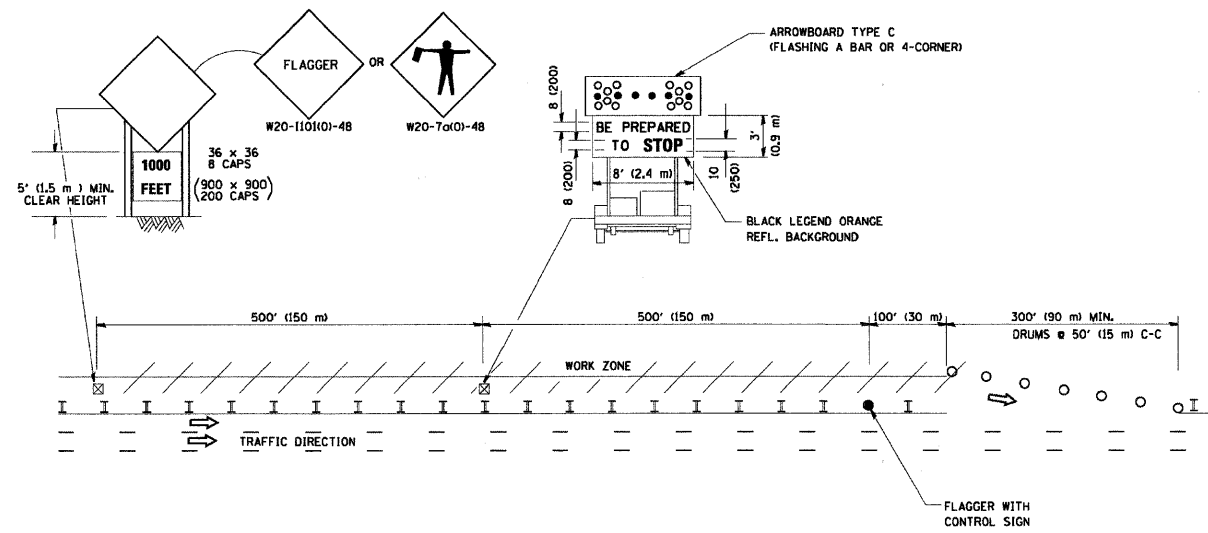
CONSTRUCTION DETAILS

SCALE: N/A SHEET NO. 7 OF 10 SHEETS STA. TO STA.

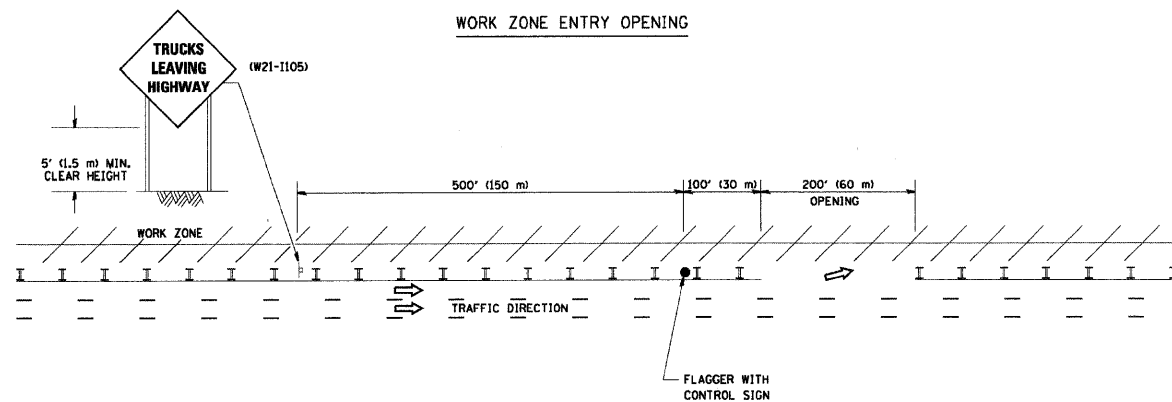
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00061-00-RS	MCHENRY	10	7
CONTRACT NO. 63232				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

- The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
- Work Zone Exit Openings should be a minimum of one half mile apart.
- Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
- All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE DRAWN BY CADD
CHECKED BY TC-18

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

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

NOTES:

- 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 40 MPH (60 km/h) 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).
- FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. T01501, STD. T01606 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.

 - ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - 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
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HULSEH	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: NONE DRAWN BY
CHECKED BY TC-10



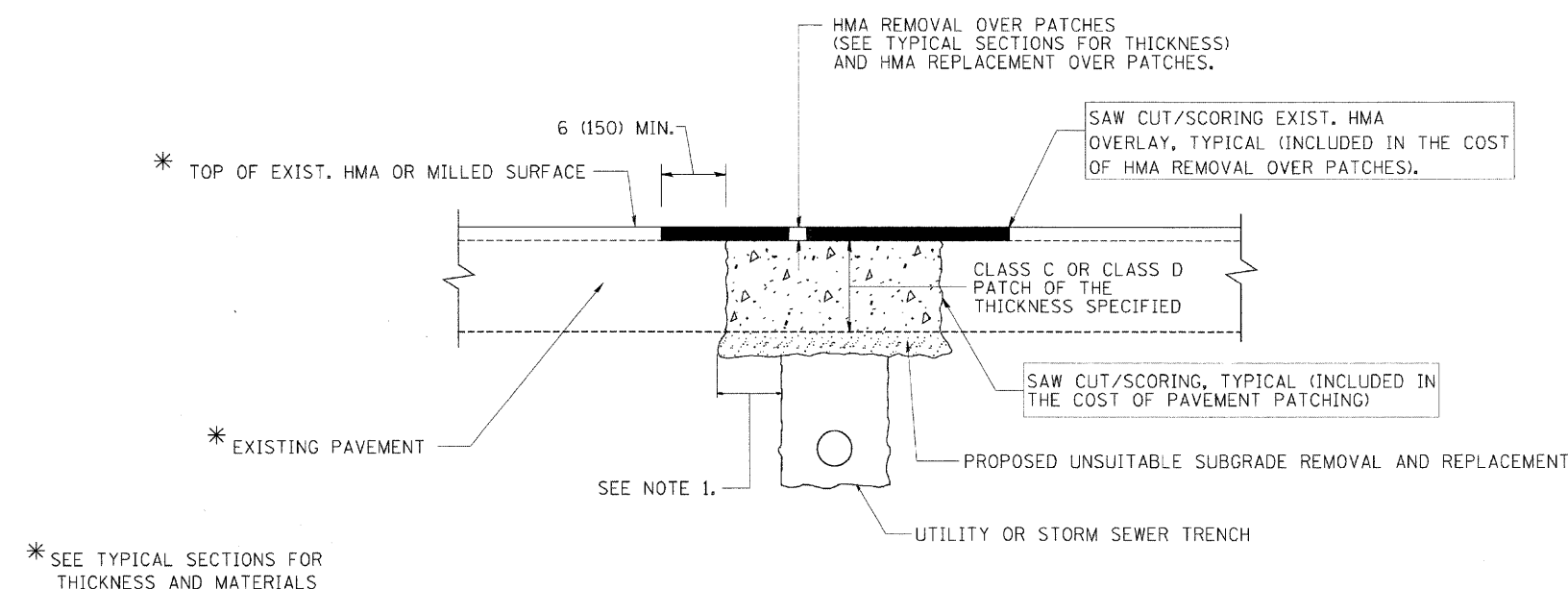
USER NAME = djohanson	DESIGNED - D. JOHANSON	REVISED -
PLOT SCALE =	DRAWN - DCJ	REVISED -
PLOT DATE = 6/29/2009	CHECKED - GFR	REVISED -
	DATE - 7/1/09	REVISED -

CITY OF HARVARD
GARFIELD STREET RESURFACING

CONSTRUCTION DETAILS

SCALE:	SHEET NO. 8 OF 10 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				09-00061-00-RS	MCHENRY	10	8
							CONTRACT NO. 63232
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- 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		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
R. SHAH	10/29/99	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
R. SHAH	01/14/00		
R. SHAH	03/23/99		
R. SHAH	04/24/99		
A. HOUSE	03/15/98		
A. ABBAS	03/21/97		
A. ABBAS	01/20/98	SCALE: VERT. NONE	DRAWN BY
ANT ABBAS	04/21/98	SCALE: HORIZ. NONE	CHECKED BY
R. BORO	06/01/07	PLOT DATE: 11/16/2007	

BD400-04 (BD-22)
REVISION DATE: 01/01/07



USER NAME = d.johanson	DESIGNED - D. JOHANSON	REVISED -
	DRAWN - DCJ	REVISED -
PLOT SCALE =	CHECKED - GFR	REVISED -
PLOT DATE = 6/29/2009	DATE - 7/1/09	REVISED -

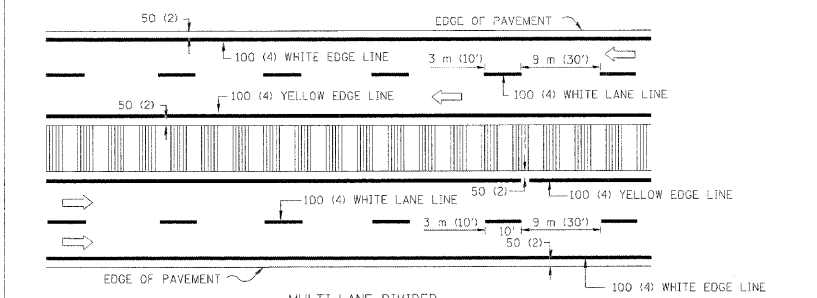
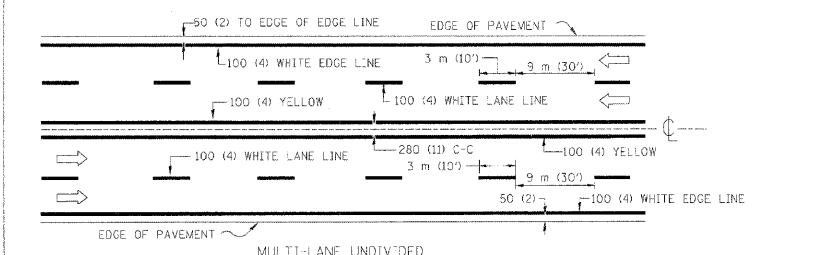
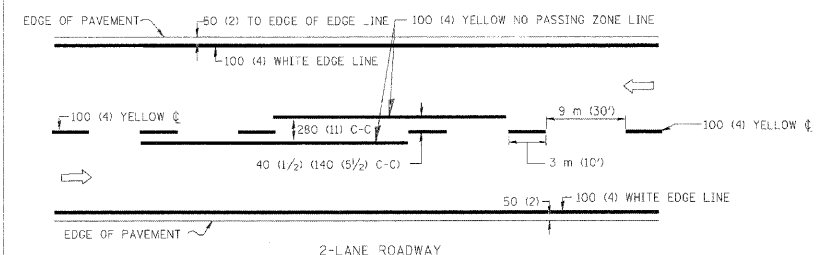
**CITY OF HARVARD
GARFIELD STREET RESURFACING**

CONSTRUCTION DETAILS

SCALE:	SHEET NO. 9 OF 10 SHEETS	STA.	TO STA.
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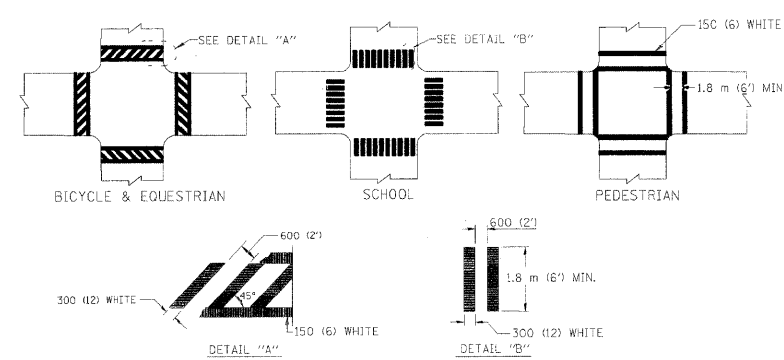
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00061-00-RS	MCHENRY	10	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63232	

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

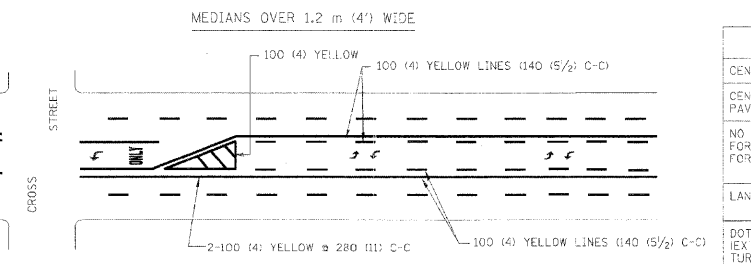
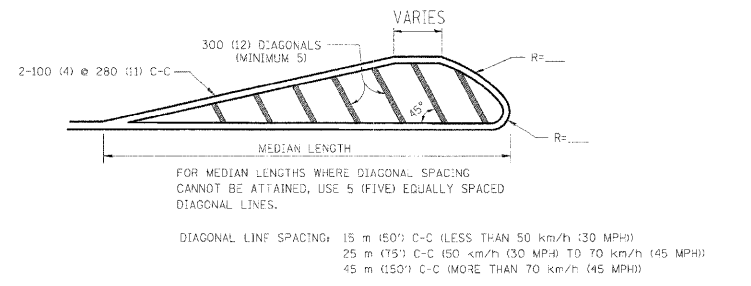
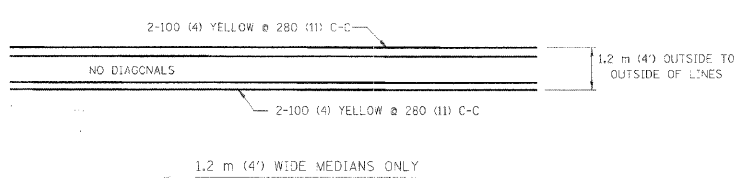


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

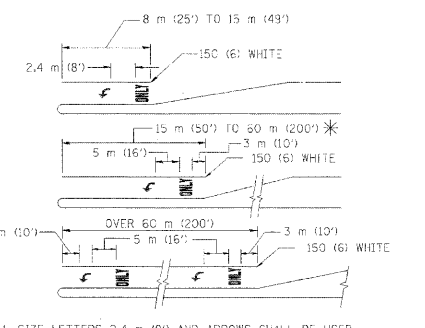
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

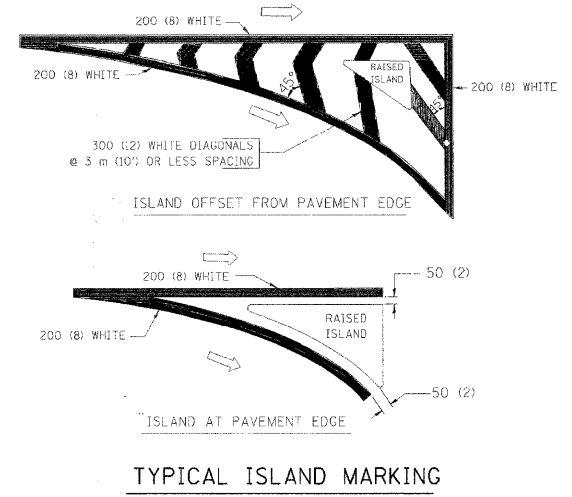


TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
 AREA = 1.5 m² (35.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)
 * TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	WHITE	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT; OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" 15 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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: 10/18/2002
 DRAWN BY: CADD
 CHECKED BY: "C-13"
 REVISION DATE: 01/06/00