

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465Y-RS-5	COOK	21	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60P50		

D-91-566-11

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

**F.A.P. 330: US ROUTE 12/45 (MANNHEIM RD.)**  
**SECTION: 465Y-RS-5**  
**WAVELAND AVENUE TO BELMONT AVENUE**  
**RESURFACING (3P)**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

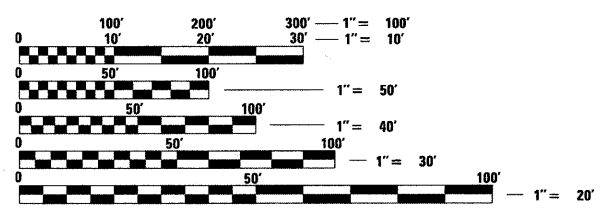


LOCATION OF SECTION INDICATED THUS: —

IMPROVEMENT LOCATED WITHIN THE VILLAGE OF FRANKLIN PARK.

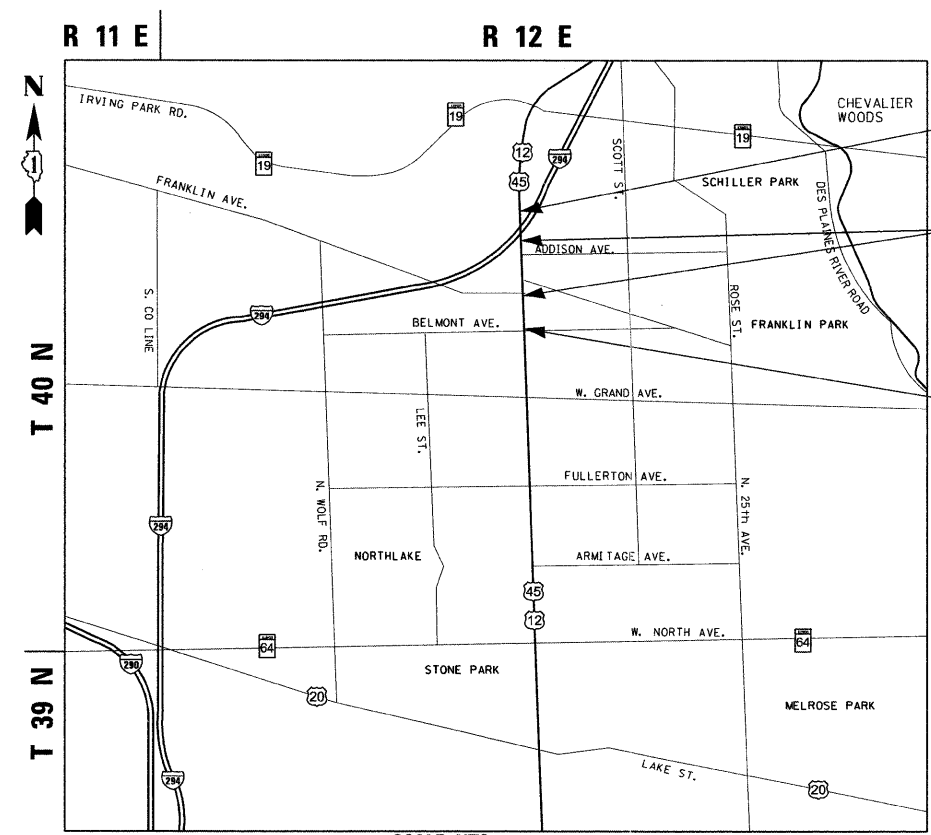
**COOK COUNTY**  
**C-91-566-11**

**TRAFFIC DATA**  
**US ROUTE 12/45**  
**2007 ADT=47,700**  
**SPEED LIMIT=30 MPH TO 40 MPH**



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  
 OR 811



**PROJECT ENDS**  
**STA. 200 + 49**

**BRIDGE OMISSION**  
**STA. 173 + 80 TO 193 + 70**

**PROJECT BEGINS**  
**STA. 164 + 27**

SCALE: NTS  
**PROVISO TOWNSHIPS**

**GROSS LENGTH OF PROJECT = 3622 FT = 0.69 MILES**  
**NET LENGTH OF PROJECT = 1632 FT = 0.31 MILES**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED MAY 25, 20 11

*Diane M. O'Keefe*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*Scott E. Stitt* P.E.  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com  
**MILLENNIA PROFESSIONAL SERVICES**

MILLENNIA PROFESSIONAL SERVICES  
 THOMAS V. NGO, P.E.  
 \* 062-058379

*Thomas V. Ngo*  
 DATE: 05/25/11  
 SIGNATURE AND SEAL APPLIES TO DRWG.

**PRINTED BY THE AUTHORITY**  
**OF THE STATE OF ILLINOIS**

DISTRICT ONE - PLAN PREP ENGINEER: KEN ENG (847) 705-4247

**CONTRACT NO. 60P50**

INDEX OF SHEETS

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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 442201-03 CLASS C AND D PATCHES
- 604086-02 FRAME AND GRATE TYPE 23
- 604091-02 FRAME AND GRATE TYPE 24
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 606306-03 CORRUGATED PC CONCRETE MEDIANS
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701602-05 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDERCTIONAL LEFT TURN
- 701606-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 814001-02 HANDHOLES

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, VILLAGE OF FRANKLIN PARK.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
12. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
16. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
18. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
19. THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
20. LOCATIONS OF LONGITUDINAL JOINT REPAIR WILL BE DETERMINED BY THE ENGINEER.
21. THE TRAFFIC SIGNAL PLANS SHOWING THE DETECTOR LOOPS ARE FOR INFORMATION ONLY. THE LOOP REPLACEMENT QUANTITIES SHOWN ON THE PLAN SHEETS ARE BASED ON THE LOOPS SHOWN IN TRAFFIC SIGNAL PLANS. ADDITIONAL QUANTITIES HAVE BEEN INCLUDED TO REFLECT THE ADDITIONAL DETECTOR LOOPS DISCOVERED IN THE FIELD. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER TO APPROVE LOOP LOCATIONS PRIOR TO CUTTING OF THE PAVEMENT. SEE TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR REPLACEMENT.

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 PLOT SCALE : 1/2000  
 USER NAME : Millennium Professional Services



200 22ND Street, Suite 216, Lombard, IL 60148  
 630.785.0110 voice, 630.839.2566 fax  
 WWW.MPS-IL.COM

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DATE - 5/24/2011	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US RTE 12/45 (MANNHEIM RD)  
 WAVELAND AVE. TO BELMONT AVE.**

**INDEX OF SHEETS, LIST OF IDOT  
 HIGHWAY STANDARD, GENERAL NOTES,  
 AND COMMITMENTS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465Y-RS-5	COOK	21	2
CONTRACT NO.			60P50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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SUMMARY OF QUANTITIES			TOTAL QUANTITY URBAN 100% STATE	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM DESCRIPTION	UNIT		0005	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6.4	6.4	
40600300	AGGREGATE (PRIME COAT)	TON	31.6	31.6	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	24.3	24.3	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1020	1020	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	250	250	
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1546.5	1546.5	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	120	120	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1500	1500	
42400800	DETECTABLE WARNINGS	SQ FT	64	64	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	120	120	
44000600	SIDEWALK REMOVAL	SQ FT	1500	1500	
44003100	MEDIAN REMOVAL	SQ FT	655	655	
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	6520	6520	
44022029	PARTIAL DEPTH REMOVAL 3"	SQ YD	178	178	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	350	350	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	900	900	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	550	550	
44213204	TIE BARS 3/4"	EACH	1200	1200	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	15	15	
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	6	6	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	12	12	
60404940	FRAMES AND GRATES, TYPE 23	EACH	2	2	
60404950	FRAMES AND GRATES, TYPE 24	EACH	2	2	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1	1	
60620800	CONCRETE MEDIAN, TYPE SB-9.12	SQ FT	532	532	

\* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITY URBAN 100% STATE	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM DESCRIPTION	UNIT		0005	
60624600	CORRUGATED MEDIAN	SQ FT	60	60	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3214	3214	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	217.8	217.8	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	11965	11965	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	250	250	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2210	2210	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	872	872	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	276	276	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1071	1071	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	108.9	108.9	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5983	5983	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	125	125	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1105	1105	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	436	436	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	138	138	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	227	227	
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	227	227	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	348	348	

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 USER NAME : Millennium Professional Services



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 630.785.0110 voice, 630.839.2566 fax  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US RTE 1245 (MANNHEIM RD)  
 WAVELAND AVE. TO BELMONT AVE.**

**SUMMARY OF QUANTITIES**

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 3
CONTRACT NO. 60P50			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

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**LEGEND**

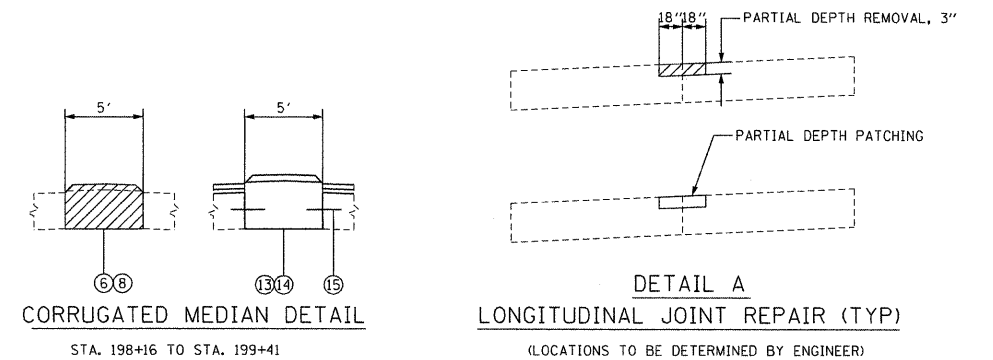
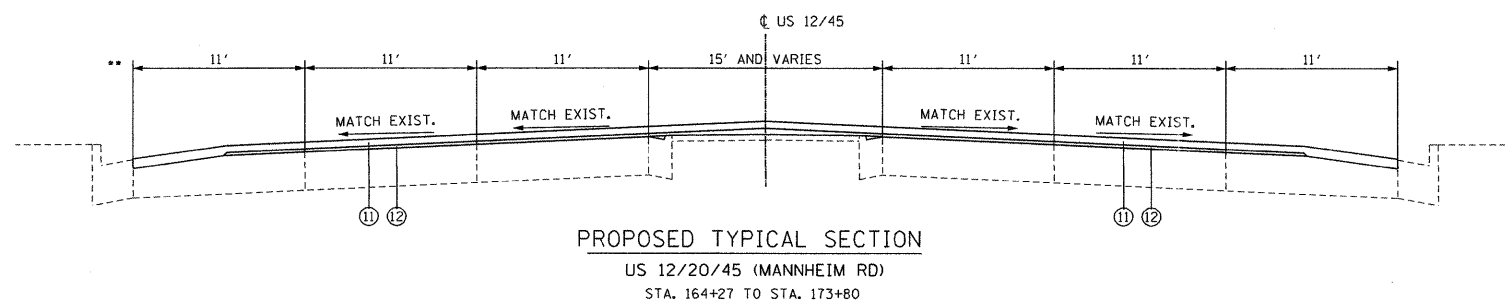
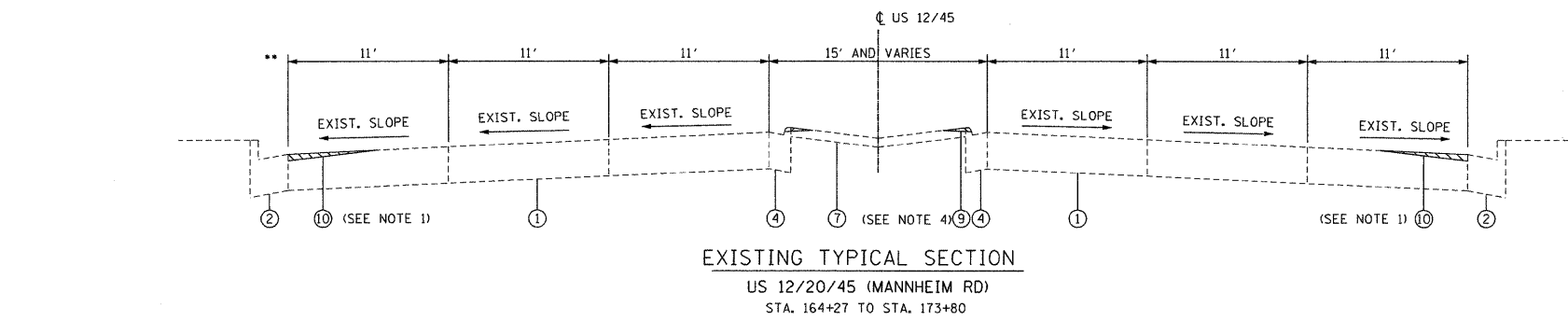
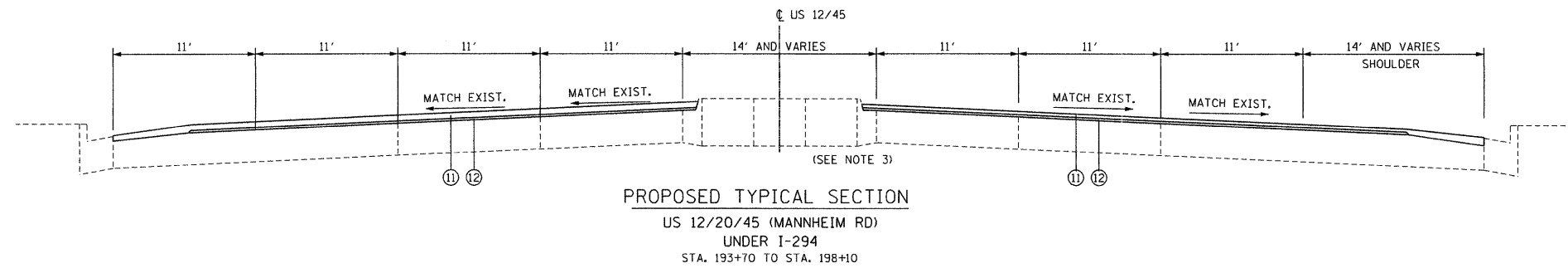
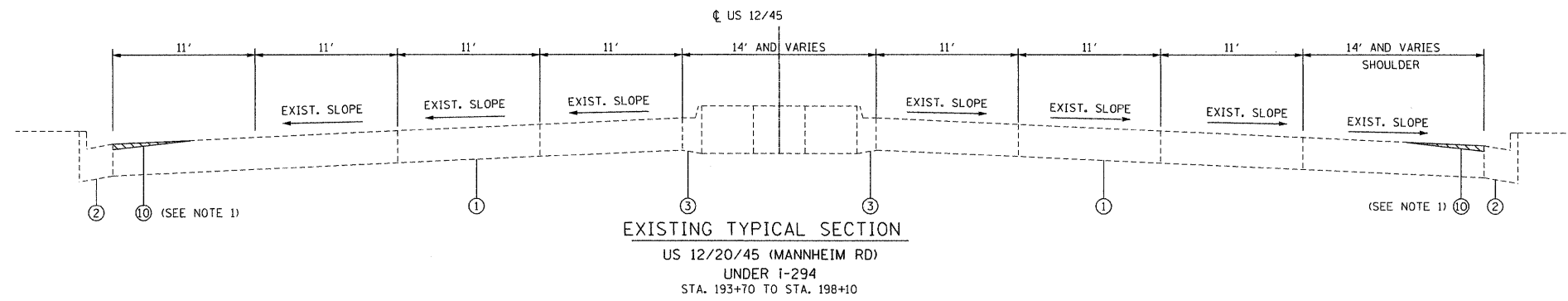
- ① EXISTING +/-10" P.C.C. BASE
- ② EXISTING B-6.24 CURB AND GUTTER
- ③ EXISTING B-9.12 CURB AND GUTTER
- ④ EXISTING M-2.12 CURB AND GUTTER
- ⑤ EXISTING CONCRETE MEDIAN TYPE SB-9.12
- ⑥ EXISTING CORRUGATED MEDIAN
- ⑦ EXISTING MEDIAN SURFACE 12"
- ⑧ MEDIAN REMOVAL
- ⑨ MEDIAN REMOVAL, PARTIAL DEPTH (SEE NOTE 2)
- ⑩ PORTLAND CEMENT CONCRETE SURFACE REMOVAL VARIABLE DEPTH
- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5MM) -1 3/4"
- ⑫ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -3/4"
- ⑬ PROPOSED CONCRETE MEDIAN, TYPE SB-9.12
- ⑭ PROPOSED CORRUGATED MEDIAN
- ⑮ TIE BAR

**NOTES**

1. SEE DISTRICT ONE DETAIL (BD33) HMA TAPER AT EDGE OF P.C.C. PAVEMENT
2. COST OF REMOVAL OF PORTION OF P.C.C. CURB ABOVE GUTTER TO BE INCLUDED WITH MEDIAN REMOVAL, PARTIAL DEPTH
3. FOR CORRUGATED MEDIAN REMOVAL AND REPLACEMENT SEE DETAIL
4. THE CONTRACTOR SHALL MATCH THE EXISTING ADJACENT PAVEMENT CROSS SLOPE FOR MEDIAN REMOVAL PARTIAL DEPTH

**OMISSIONS**

STA. 173+80 TO STA. 193+70



HMA MIXTURES REQUIREMENT	
MIXTURE USES	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm)	4% @ 90 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.
PARTIAL DEPTH PATCHING (HMA BINDER IL-19 mm)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.

- MIXTURE NOTES:**
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN
  2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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 USER: JMM  
 MILLENIA PROFESSIONAL SERVICES

200 22ND Street, Suite 216, Lombard, IL 60148  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US RTE 12/45 (MANNHEIM RD)**  
**WAVELAND AVE. TO BELMONT AVE.**

**MAINLINE TYPICAL SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

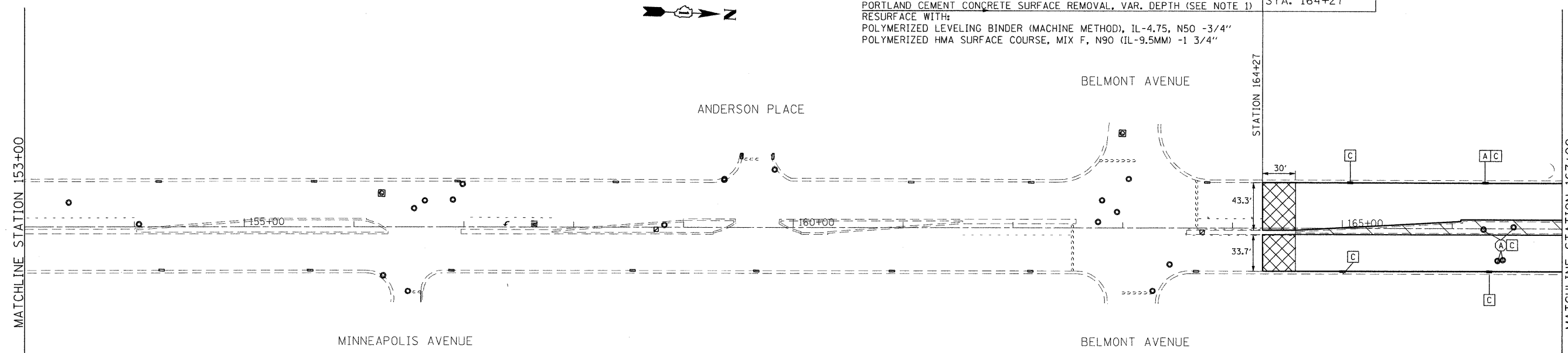
F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 5
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
CONTRACT NO. 60P50				

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



PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VAR. DEPTH (SEE NOTE 1)  
 RESURFACE WITH:  
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -3/4"  
 POLYMERIZED HMA SURFACE COURSE, MIX F, N90 (IL-9.5MM) -1 3/4"







PROJECT BEGINS  
 STA. 164+27

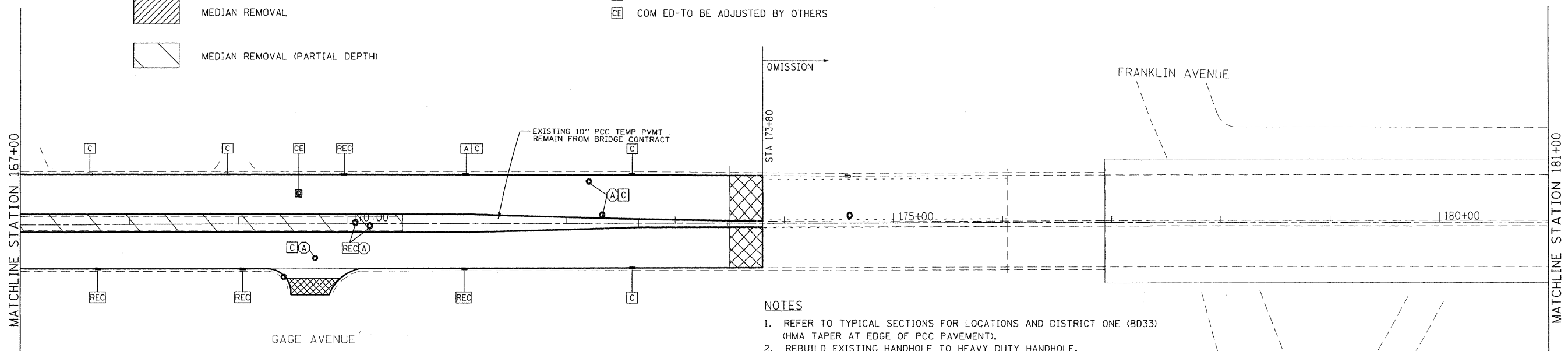


**ROADWAY LEGEND**

-  PROPOSED HMA SURFACE REMOVAL BUTT JOINT  
SEE BUTT JOINTS AND HMA TAPER DETAILS (BD32)
-  PROPOSED PCC SURFACE REMOVAL BUTT JOINT  
SEE BUTT JOINTS AND HMA TAPER DETAILS (BD32)
-  MEDIAN REMOVAL
-  MEDIAN REMOVAL (PARTIAL DEPTH)

**DRAINAGE LEGEND**

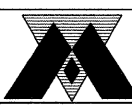
-  FRAMES AND GRATES TO BE ADJUSTED
-  STRUCTURE TO BE CLEANED
-  FRAME AND LID TO BE ADJUSTED
-  STRUCTURE TO BE RECONSTRUCTED
-  TELEPHONE-TO BE ADJUSTED BY OTHERS
-  COM ED-TO BE ADJUSTED BY OTHERS



**NOTES**

1. REFER TO TYPICAL SECTIONS FOR LOCATIONS AND DISTRICT ONE (BD33)  
(HMA TAPER AT EDGE OF PCC PAVEMENT).
2. REBUILD EXISTING HANDHOLE TO HEAVY DUTY HANDHOLE.
3. REBUILD EXISTING HANDHOLE.

FILE NAME = P:\2009\ME09086\_Ver-Yer\_Plan\CADD\W034\_US45\Shs\1616166-sht-drain-06.dgn  
 PLOT SCALE = 50/0000 / IN  
 USER NAME = Millennia Professional Services



200 22ND Street, Suite 216, Lombard, IL 60148  
 630.785.0110 voice, 630.839.2566 fax  
 WWW.MPS-IL.COM  
**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/24/2011	REVISED -

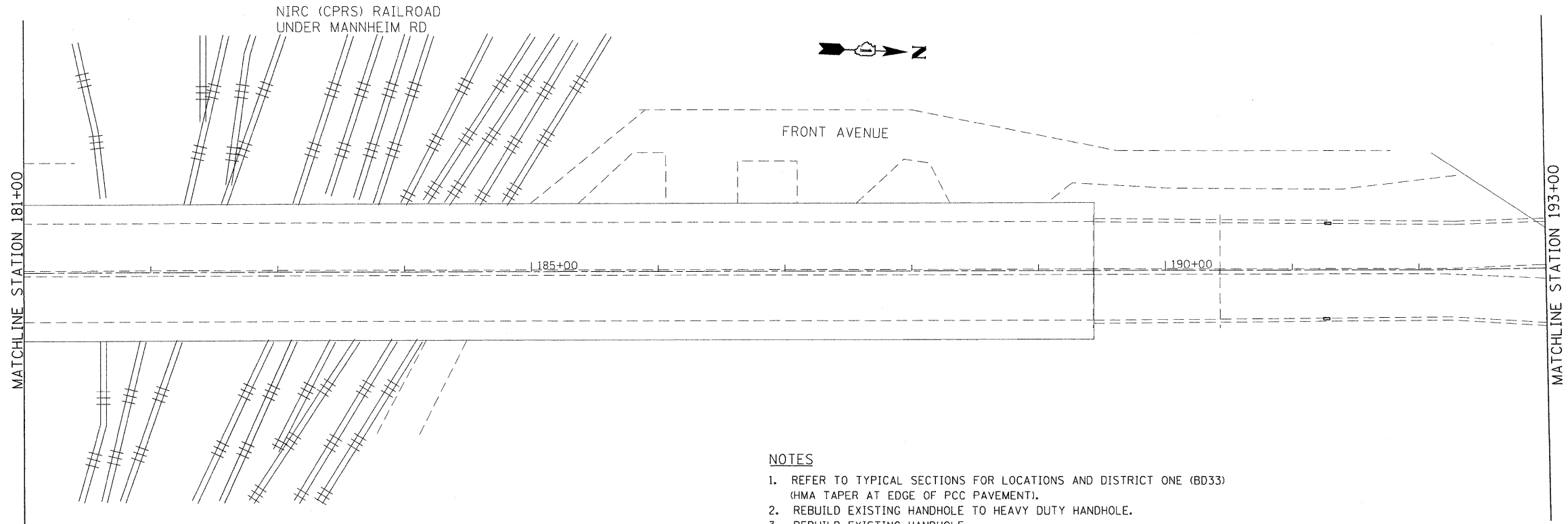
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>US RTE 12/45 (MANNHEIM RD)</b>		<b>ROADWAY PLAN</b>	
WAVELAND AVE. TO BELMONT AVE.			
SCALE: 1"=100'	SHEET NO. OF SHEETS	STA. 153+00 TO STA. 181+0	

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 6
CONTRACT NO. 60P50				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

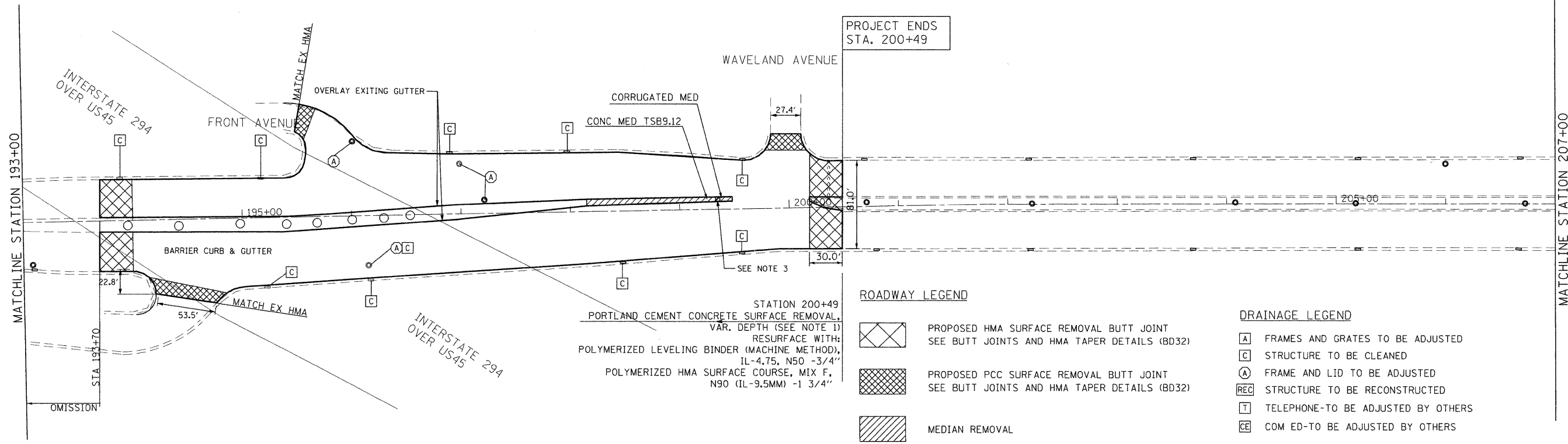
PLN-06

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**NOTES**

1. REFER TO TYPICAL SECTIONS FOR LOCATIONS AND DISTRICT ONE (BD33) (HMA TAPER AT EDGE OF PCC PAVEMENT).
2. REBUILD EXISTING HANDHOLE TO HEAVY DUTY HANDHOLE.
3. REBUILD EXISTING HANDHOLE.



STATION 200+49  
 PORTLAND CEMENT CONCRETE SURFACE REMOVAL,  
 VAR. DEPTH (SEE NOTE 1)  
 RESURFACE WITH:  
 POLYMERIZED LEVELING BINDER (MACHINE METHOD),  
 IL-4.75, N50 -3/4"  
 POLYMERIZED HMA SURFACE COURSE, MIX F,  
 N90 (IL-9.5MM) -1 3/4"

**ROADWAY LEGEND**

- PROPOSED HMA SURFACE REMOVAL BUTT JOINT  
SEE BUTT JOINTS AND HMA TAPER DETAILS (BD32)
- PROPOSED PCC SURFACE REMOVAL BUTT JOINT  
SEE BUTT JOINTS AND HMA TAPER DETAILS (BD32)
- MEDIAN REMOVAL
- MEDIAN REMOVAL (PARTIAL DEPTH)

**DRAINAGE LEGEND**

- FRAMES AND GRATES TO BE ADJUSTED
- STRUCTURE TO BE CLEANED
- FRAME AND LID TO BE ADJUSTED
- STRUCTURE TO BE RECONSTRUCTED
- TELEPHONE-TO BE ADJUSTED BY OTHERS
- COM ED-TO BE ADJUSTED BY OTHERS

FILE NAME = P:\2009\ME09006\_Ver-Vor-Phil\CADD\W034\_US45\_Shts\0160166-shd-drain-07.dgn  
 USER NAME = Millennia Professional Services

200 22ND Street, Suite 216, Lombard, IL 60148  
 630.795.0110 voice, 630.839.2566 fax  
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**MILLENNIA PROFESSIONAL SERVICES**

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CHECKED - TVN	REVISED -
DATE - 5/24/2011	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US RTE 12/45 (MANNHEIM RD)  
 WAVELAND AVE. TO BELMONT AVE.**

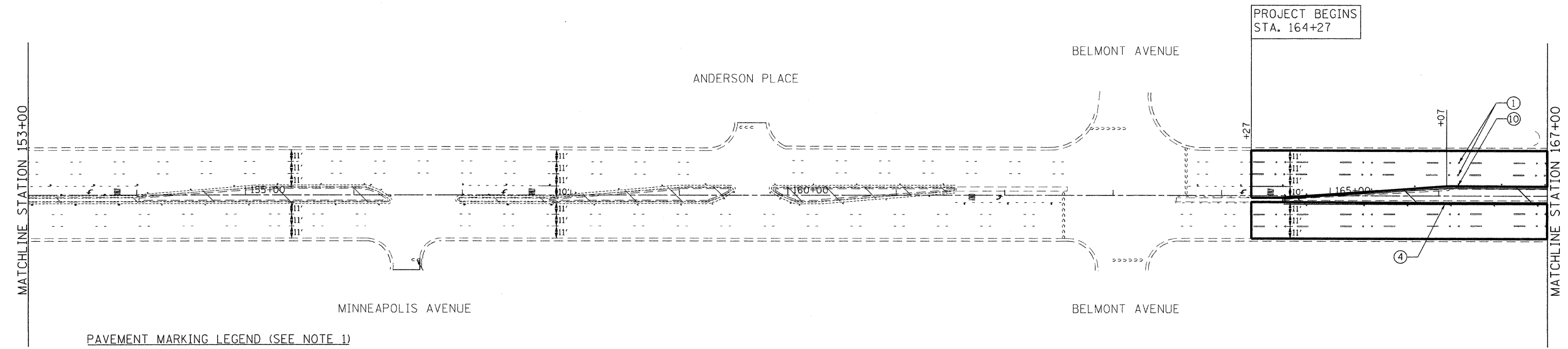
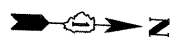
**ROADWAY PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 181+00 TO STA. 207+00

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 7
CONTRACT NO. 60P50				

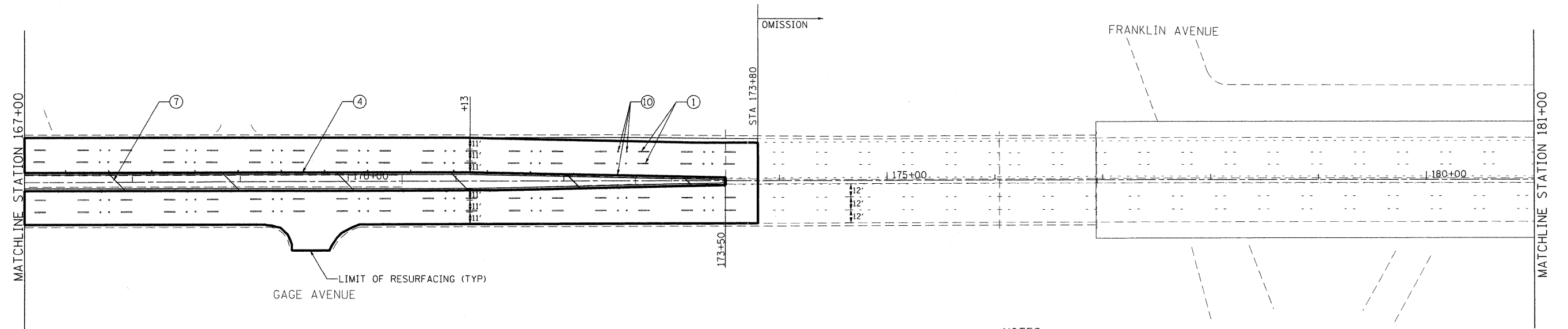
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT

PLN-07



**PAVEMENT MARKING LEGEND (SEE NOTE 1)**


- |  |  |
|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)  | ⑧ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR        |
| ② THERMOPLASTIC PAVEMENT MARKING 4" YELLOW LANE LINE (30' SKIP 10' DASH) | ⑨ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE                    | ⑩ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)           |
| ④ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C           | ⑪ THERMOPLASTIC PAVEMENT MARKING 4" WHITE EDGE LINE        |
| ⑤ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE                           | ⑫ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE             |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 12" WHITE LINE                          | ⑬ THERMOPLASTIC PAVEMENT MARKING 24" WHITE LINE            |
| ⑦ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE                |  |



**NOTES:**

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

FILE NAME = P:\2009\ME09006\_Ver-Var-Phil\CADD\W034-US45\Shets\0160166-sht-pmk-06.dgn  
 PLOT SCALE = 1" = 50.0000' / IN.  
 USER NAME = Millennium Professional Services



200 22ND Street, Suite 216, Lombard, IL 60148  
 630.785.0110 voice, 630.839.2566 fax  
 WWW.MPS-IL.COM  
**MILLENNIA PROFESSIONAL SERVICES**

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DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/24/2011	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

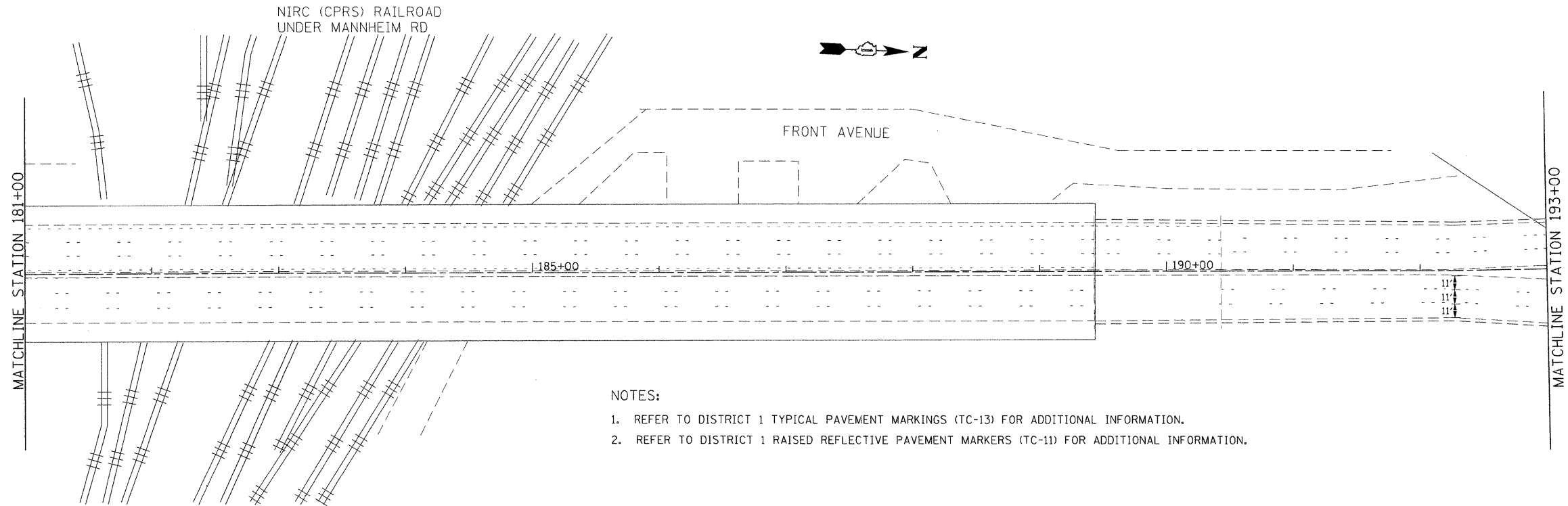
<b>US RTE 12/45 (MANNHEIM RD)</b>		<b>PAVEMENT MARKING PLAN</b>	
WAVELAND AVE TO BELMONT AVE.			
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 153+00 TO STA. 181+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 8
CONTRACT NO. 60P50				

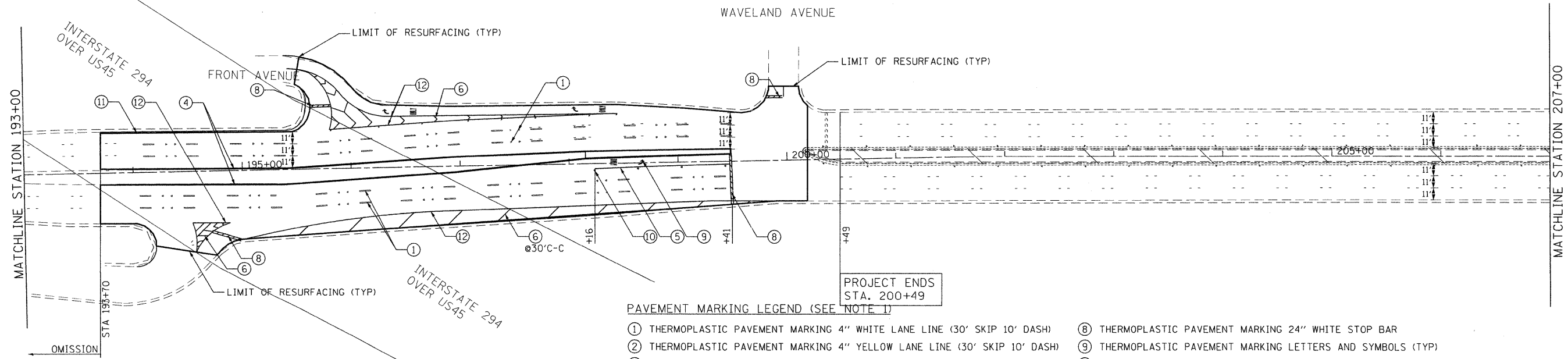
PMK-06

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- NOTES:
1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
  2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND (SEE NOTE 1)

- |  |  |
|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)  | ⑧ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR        |
| ② THERMOPLASTIC PAVEMENT MARKING 4" YELLOW LANE LINE (30' SKIP 10' DASH) | ⑨ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE                    | ⑩ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)           |
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| ⑤ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE                           | ⑫ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE             |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 12" WHITE LINE                          | ⑬ THERMOPLASTIC PAVEMENT MARKING 24" WHITE LINE            |
| ⑦ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE                |  |

FILE NAME = P:\2009\ME09086\_Ver-Yar-Ph1\CADD\W034\_US45\Shets\DI60166-sht-pmk-07.dgn  
 USER NAME = MILLENNIA Professional Services



209 22ND Street, Suite 216, Lombard, IL 60148  
 630.785.6110 voice, 630.839.2566 fax  
 WWW.MPS-IL.COM  
**MILLENNIA PROFESSIONAL SERVICES**

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DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/24/2011	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>US RTE 12/45 (MANNHEIM RD)</b> <b>WAVELAND AVE. TO BELMONT AVE.</b>		<b>PAVEMENT MARKING PLAN</b>	
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 181+00 TO STA. 207+00	F.A.P. RTE. 330

SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 9
CONTRACT NO. 60P50		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

PMK-07

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TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
UPPER NO. INDICATES LENGTH, LOWER NO. IS SIZE "T", "P", & "CT" INDICATE CONDUIT TRENCHED, PUSHED, OR IN COMMON TRENCH, RESPECTIVELY		
PEDESTRIAN CALL PUSHBUTTON		
DETECTOR LOOP		
PROPOSED SIGNAL HEAD		
UNIT DUCT		
REMOVAL		
TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED		
LIGHT DETECTOR CONFIRMATION BEACON		

US RTE 45 (MANNHEIM ROAD)

PROJECT LIMITS

THIS PLAN IS FOR INFORMATION AND IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY.

REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)

BELMONT AVENUE

BELMONT AVENUE

FFFFFF

CODE	QUANTITY	UNIT	ITEM
88600600	150	FOOT	DETECTOR LOOP REPLACEMENT

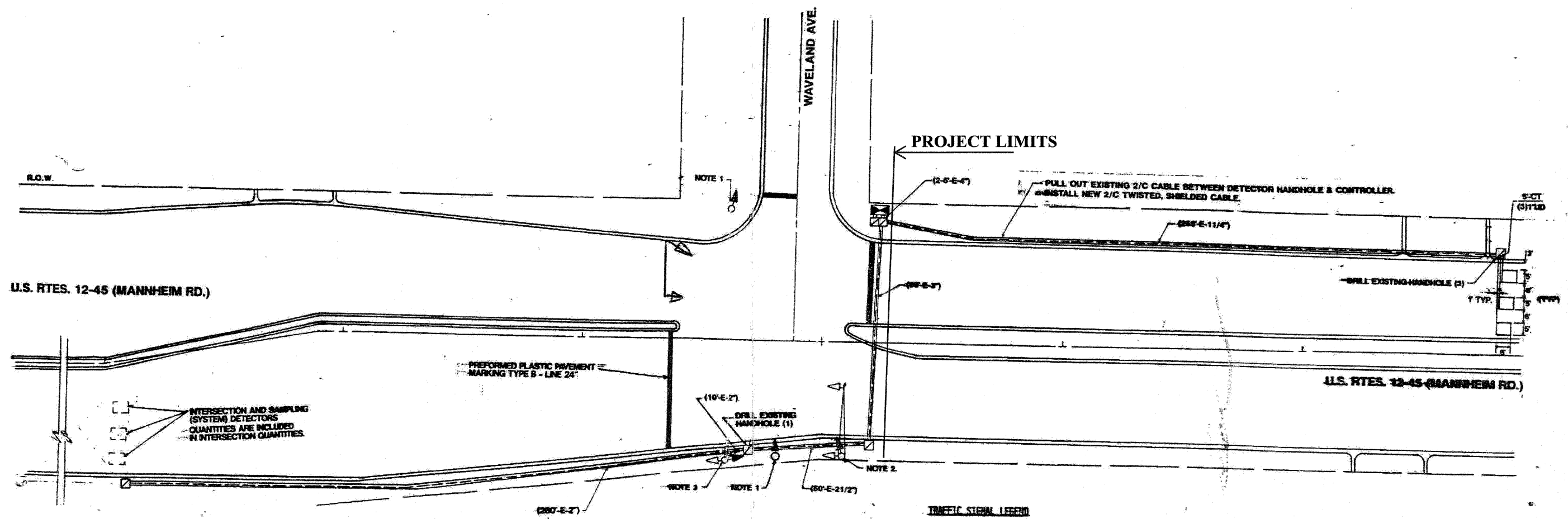
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US RTE 45 (MANNHEIM ROAD)@  
BELMONT AVE

DETECTOR LOOP  
REPLACEMENT

F.A.P. RTE 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 10
SCALE: NONE		SHEET NO. OF SHEETS		TO STA.
FED. ROAD. NO. 1		ILLINOIS FED. AID PROJECT		



THIS PLAN IS FOR INFORMATION AND IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY.

REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)

**TRAFFIC SIGNAL LEGEND**

- |                                      | PROPOSED | EXISTING |
|--------------------------------------|----------|----------|
| CONTROLLER                           |          |          |
| SERVICE INSTALLATION                 |          |          |
| SIGNAL HEAD                          |          |          |
| SIGNAL HEAD WITH BACKPLATE           |          |          |
| SIGNAL HEAD, PEDESTRIAN              |          |          |
| SIGNAL POST                          |          |          |
| MAST ARM ASSEMBLY AND POLE, STEEL    |          |          |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM |          |          |
| COMMON TRENCH                        |          |          |
| WET DUCT                             |          |          |
| HANDHOLE                             |          |          |
| HEAVY DUTY HANDHOLE                  |          |          |
| DOUBLE HANDHOLE                      |          |          |
| G.S. CONDUIT IN TRENCH OR PUSHED     |          |          |
| PEDESTRIAN PUSHBUTTON DETECTOR       |          |          |
| DETECTOR LOOP                        |          |          |

CODE	QUANTITY	UNIT	ITEM
88600600	198	FOOT	DETECTOR LOOP REPLACEMENT

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

US RTE 45 (MANNHEIM ROAD) @  
WAVELAND AVENUE

DETECTOR LOOP  
REPLACEMENT

SCALE: NONE    SHEET NO. \_\_\_ OF \_\_\_ SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465Y-RS-5	COOK	21	11
FED. ROAD NO. 1    ILLINOIS    CONTRACT NO. 80P50				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

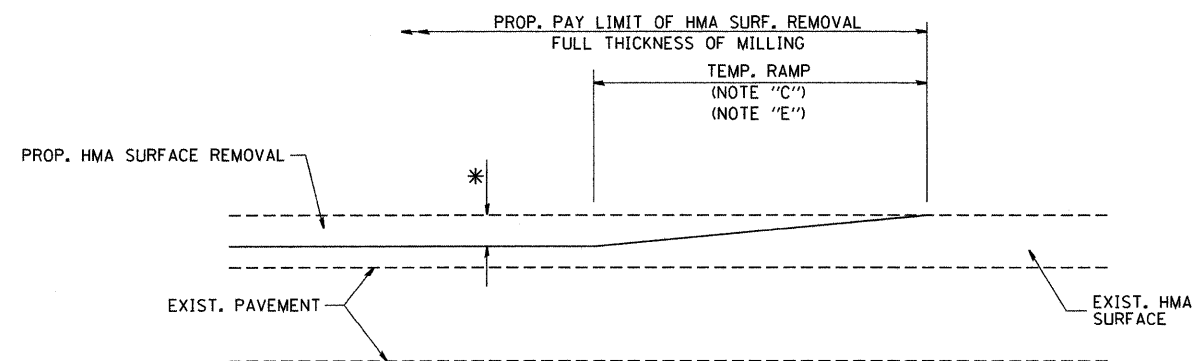
**BASIS OF PAYMENT:**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

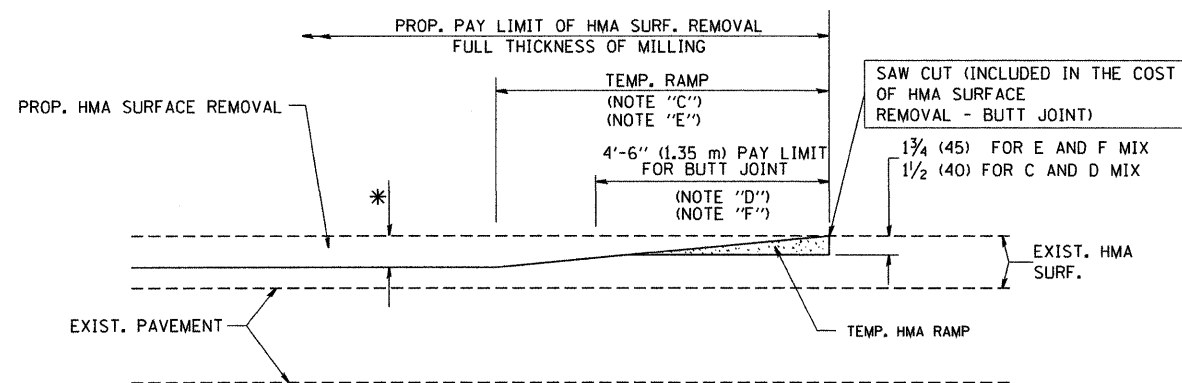
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	330	465Y-RS-5	COOK	21	12
		PLOT SCALE = 50,000' / IN.	CHECKED -		REVISED - M. GOMEZ 01-22-01				<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 60P50</b>		
		PLOT DATE = 1/4/2008	DATE - 03-11-94		REVISED - R. BORO 01-01-07				FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

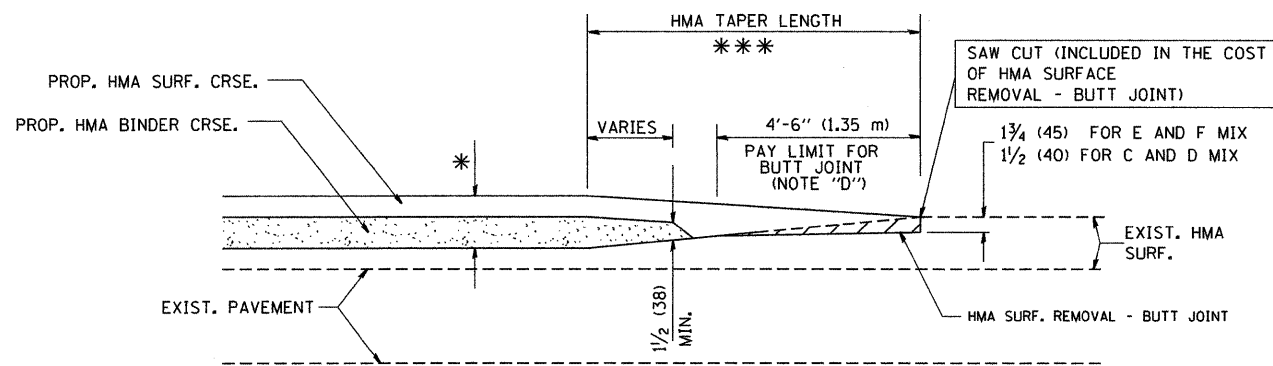
**OPTION 1**



HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

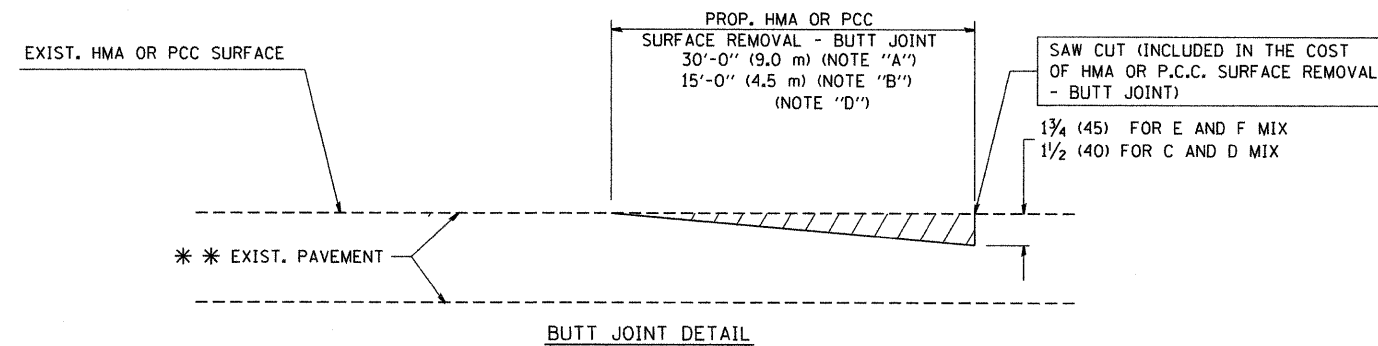
**OPTION 2**

**TYPICAL TEMPORARY RAMP**

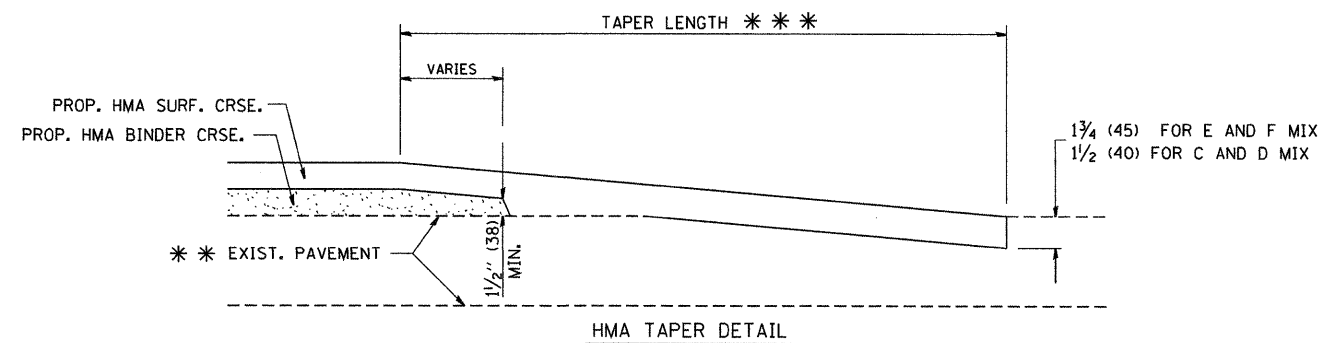


BUTT JOINT AND  
HMA TAPER

**TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER 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")

**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".

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

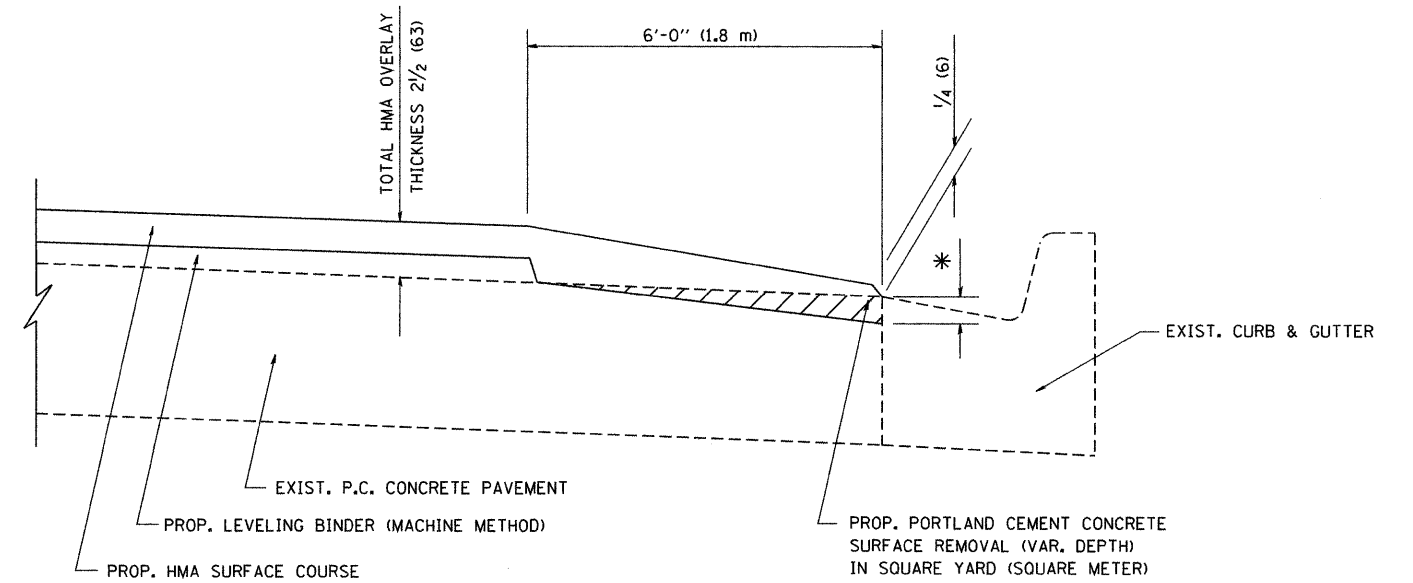
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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 13
BD400-05 BD32			CONTRACT NO. 60P50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	3/4 (19)	1/2 (38)

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

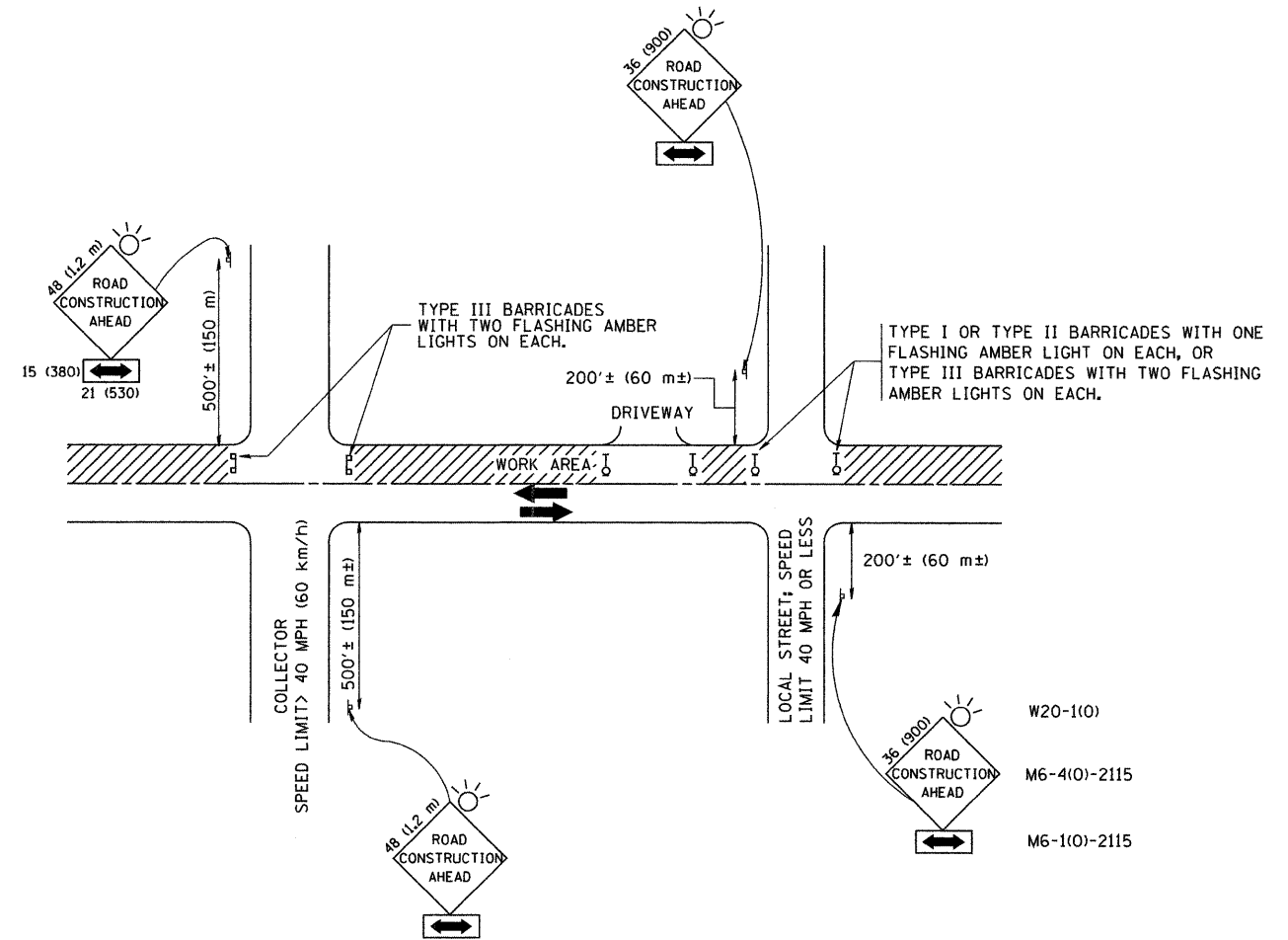
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	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
	PLOT DATE = 1/4/2008	DATE - 09-10-94	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 14
<b>BD400-06 (BD33)</b>		<b>CONTRACT NO. 60P50</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

1. 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:

a) 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.

b) 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.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) 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.

b) 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.

3. 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.

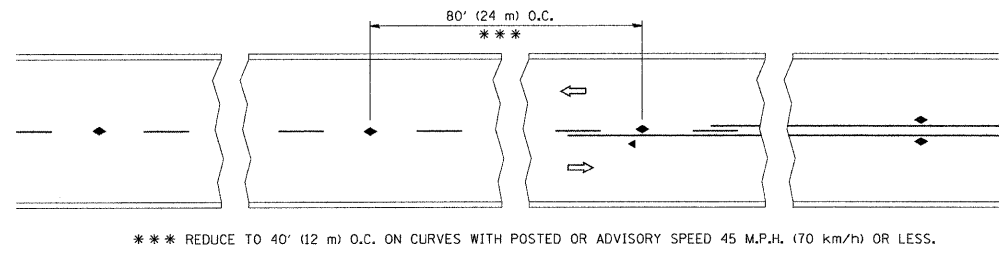
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

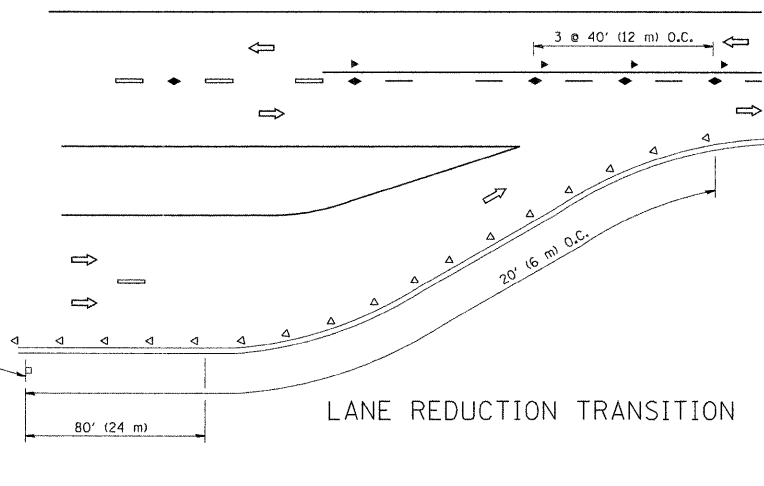
TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

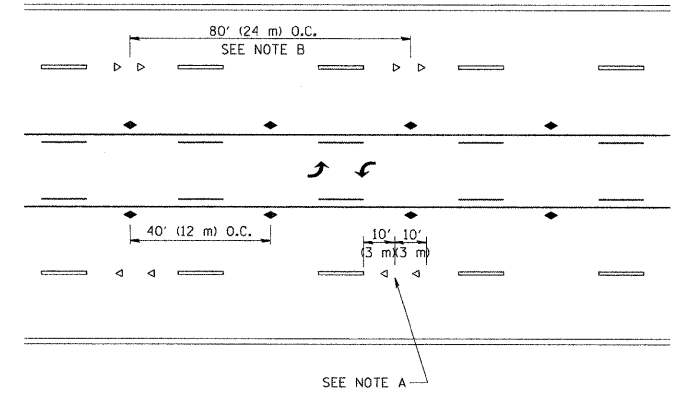
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TC-10			CONTRACT NO. 60P50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



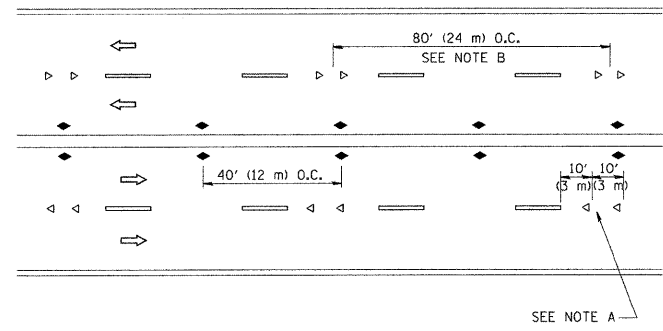
TWO-LANE/TWO-WAY



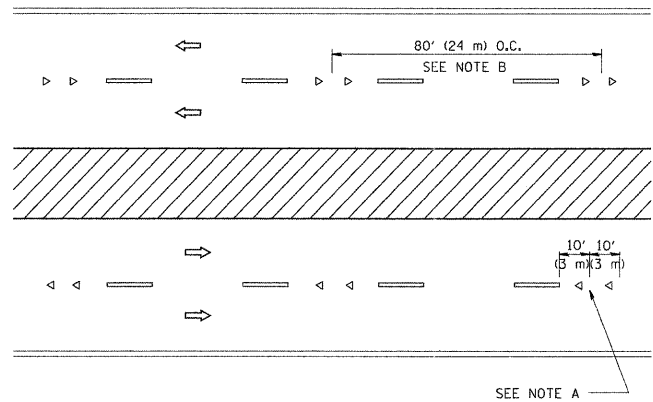
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

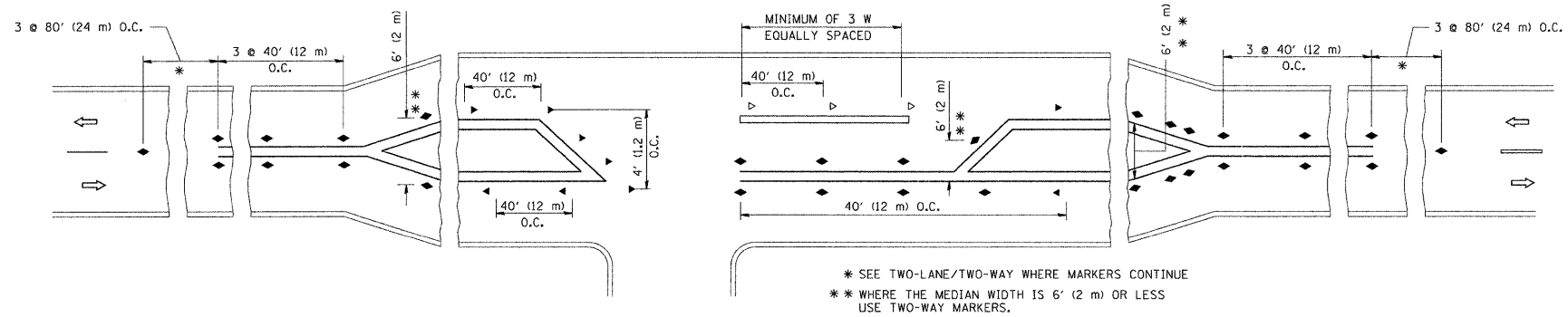
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

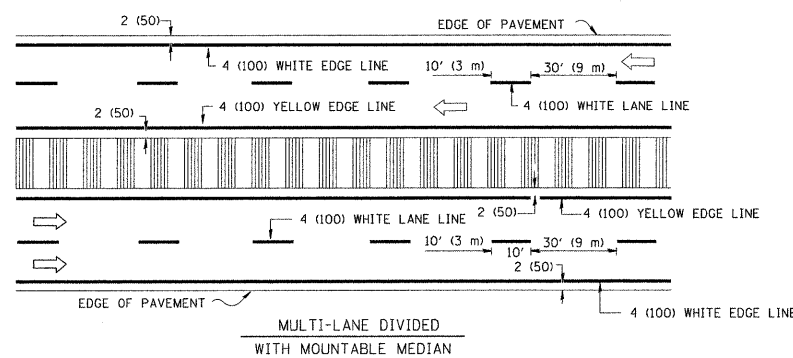
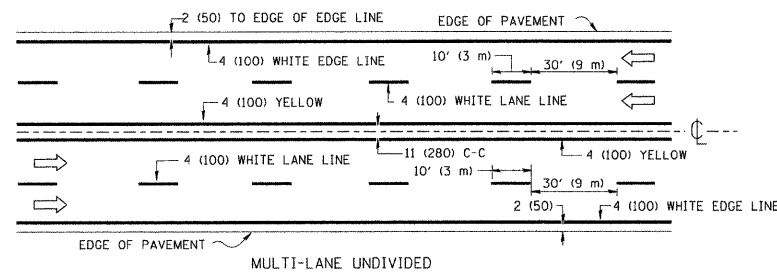
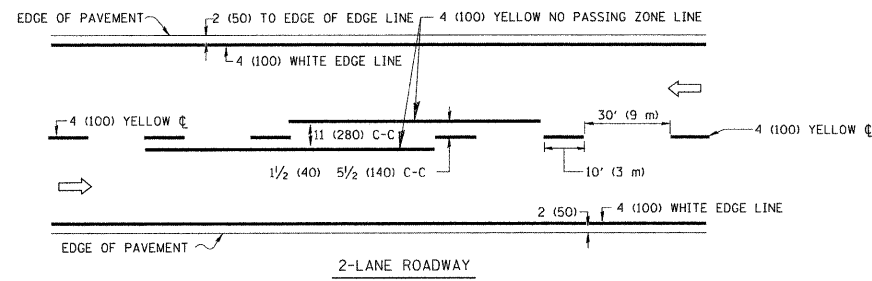


LEFT TURN

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

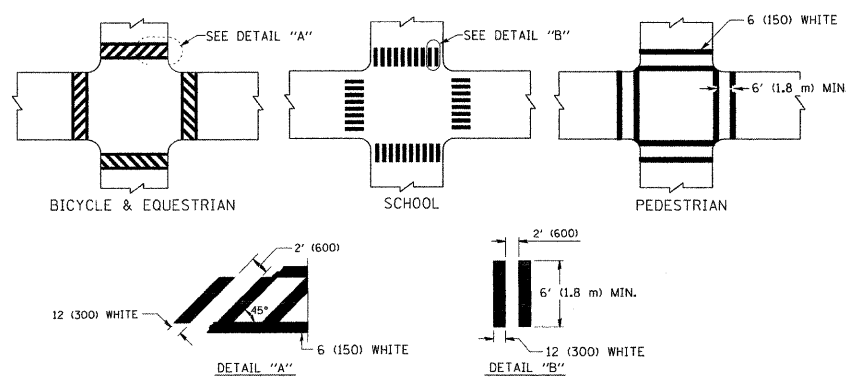
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		REVISED - T. RAMMACHER 03-12-99	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TC-11</b>		CONTRACT NO. 60P5C	
PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09	REVISED - C. JUCIUS 09-09-09				FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT			



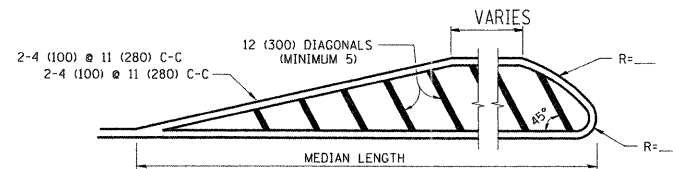
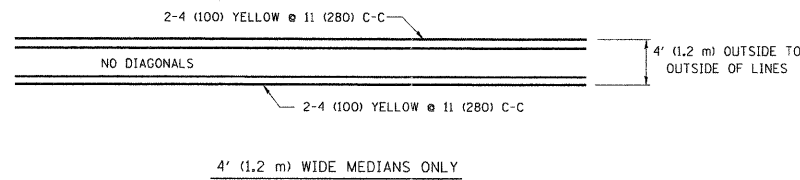


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

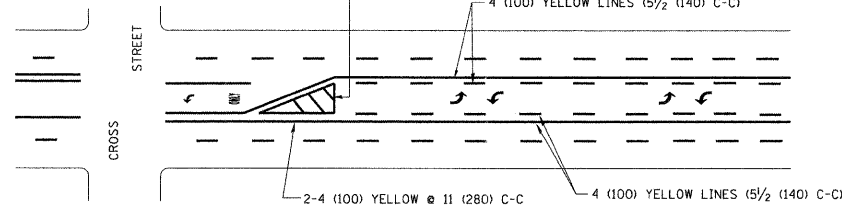


TYPICAL CROSSWALK MARKING

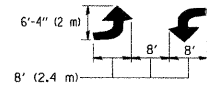


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

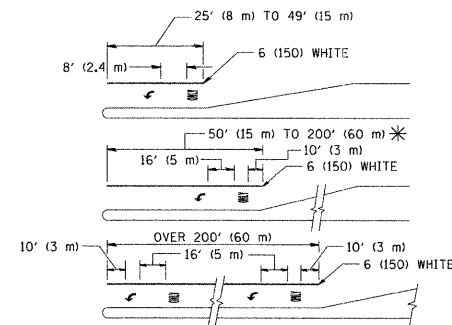


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

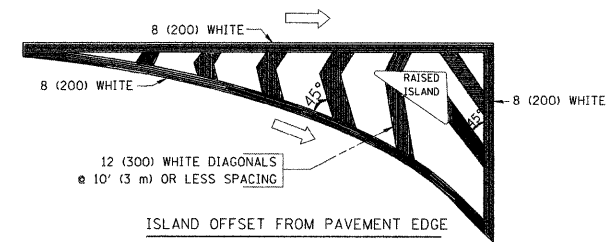


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
\* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

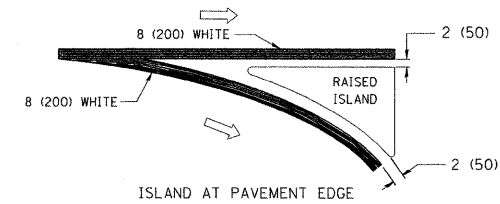
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND 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" IS 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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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 inches (millimeters) unless otherwise shown.

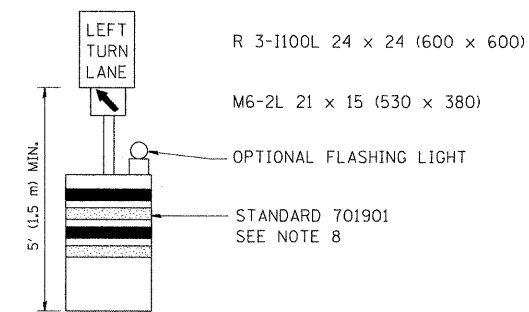
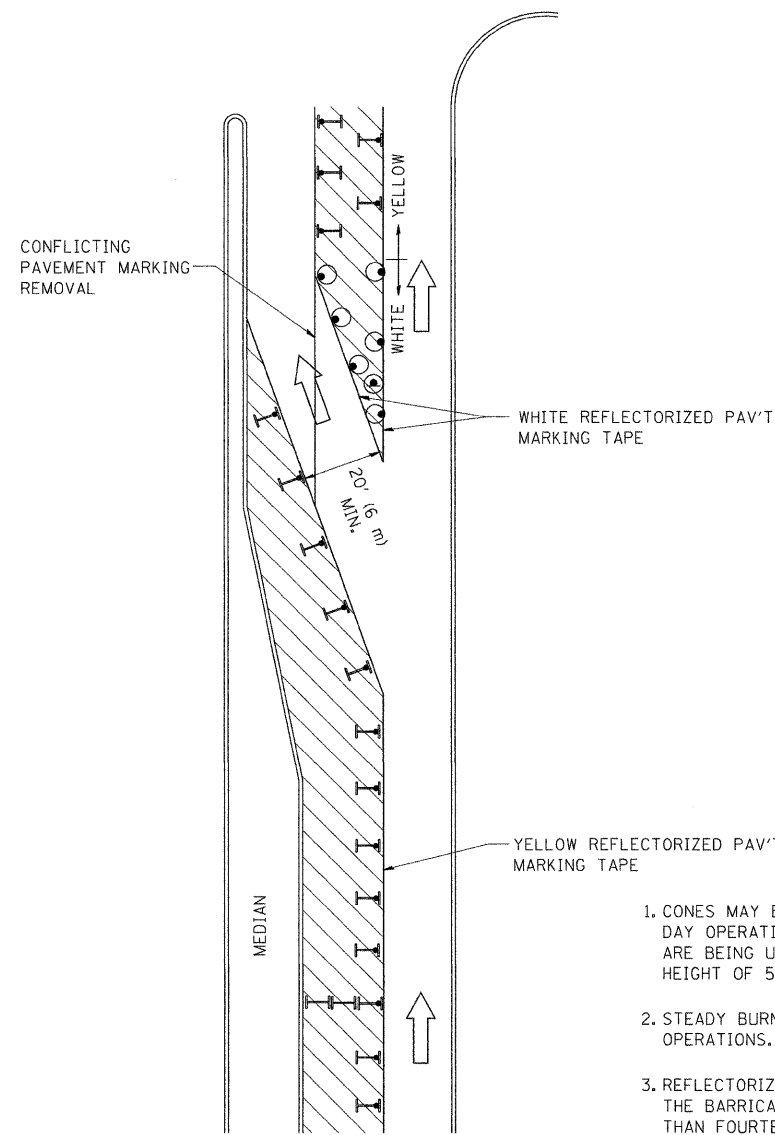
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465Y-RS-5	COOK	21	17
TC-13			CONTRACT NO. 60P50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

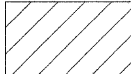







**GENERAL NOTES**

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 OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. 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 inches (millimeters) 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

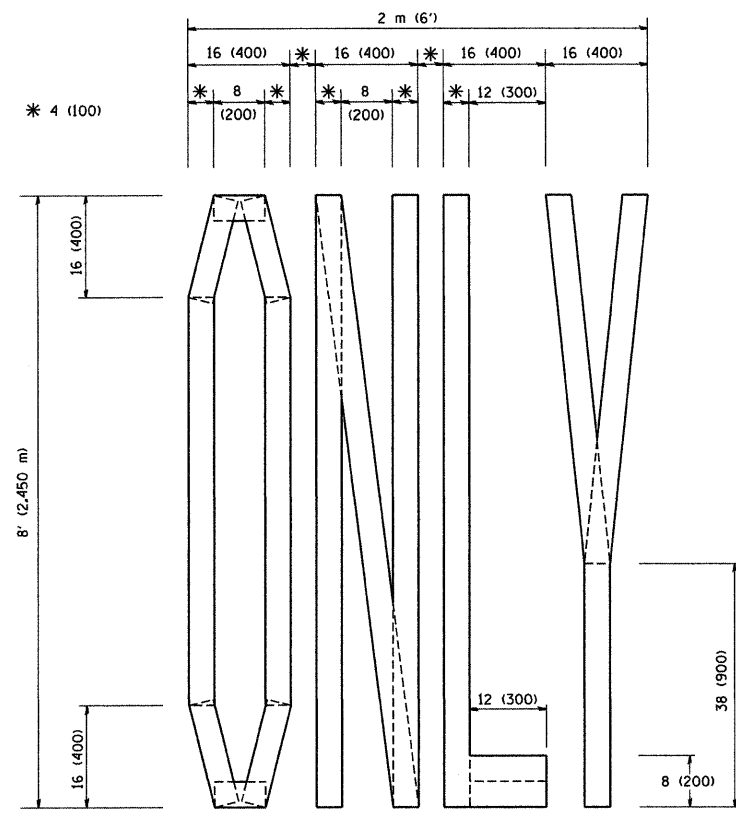
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

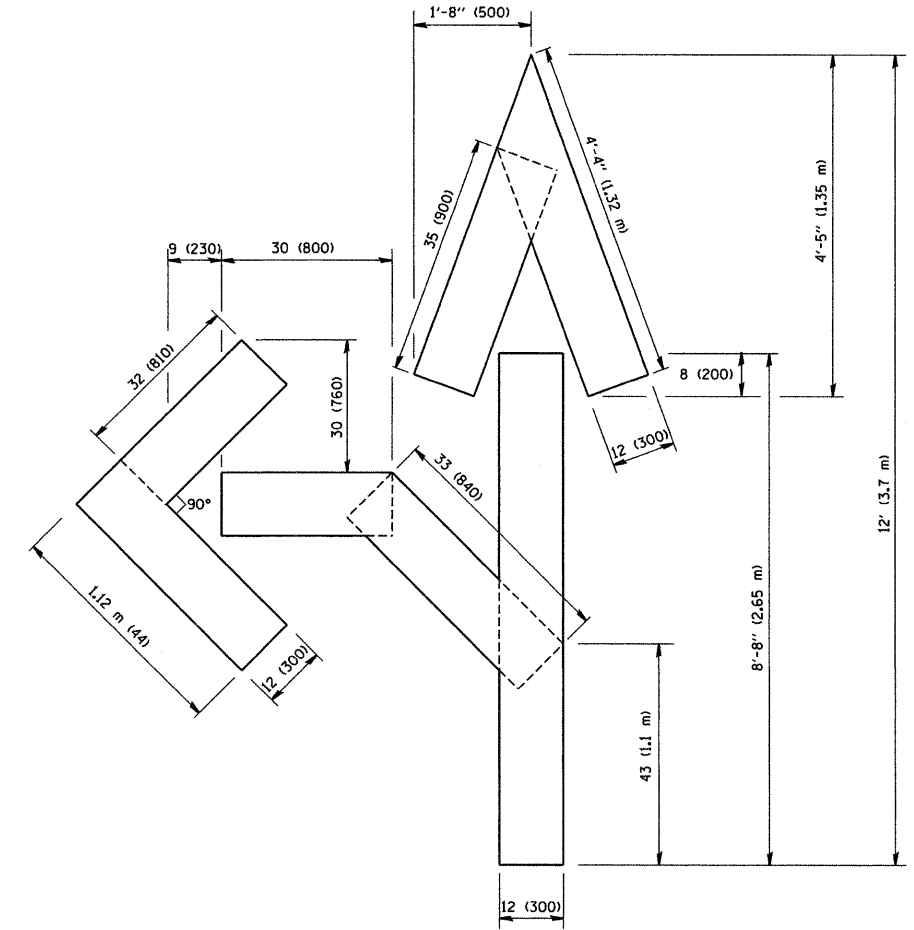
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

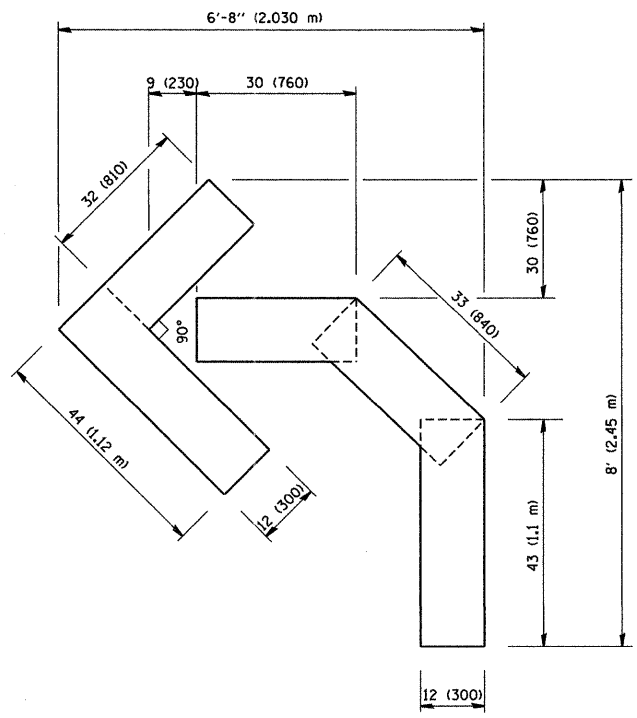
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465Y-RS-5	COOK	21	18
<b>TC-14</b>			<b>CONTRACT NO. 60P50</b>	
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



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 inches (millimeters) unless otherwise shown.

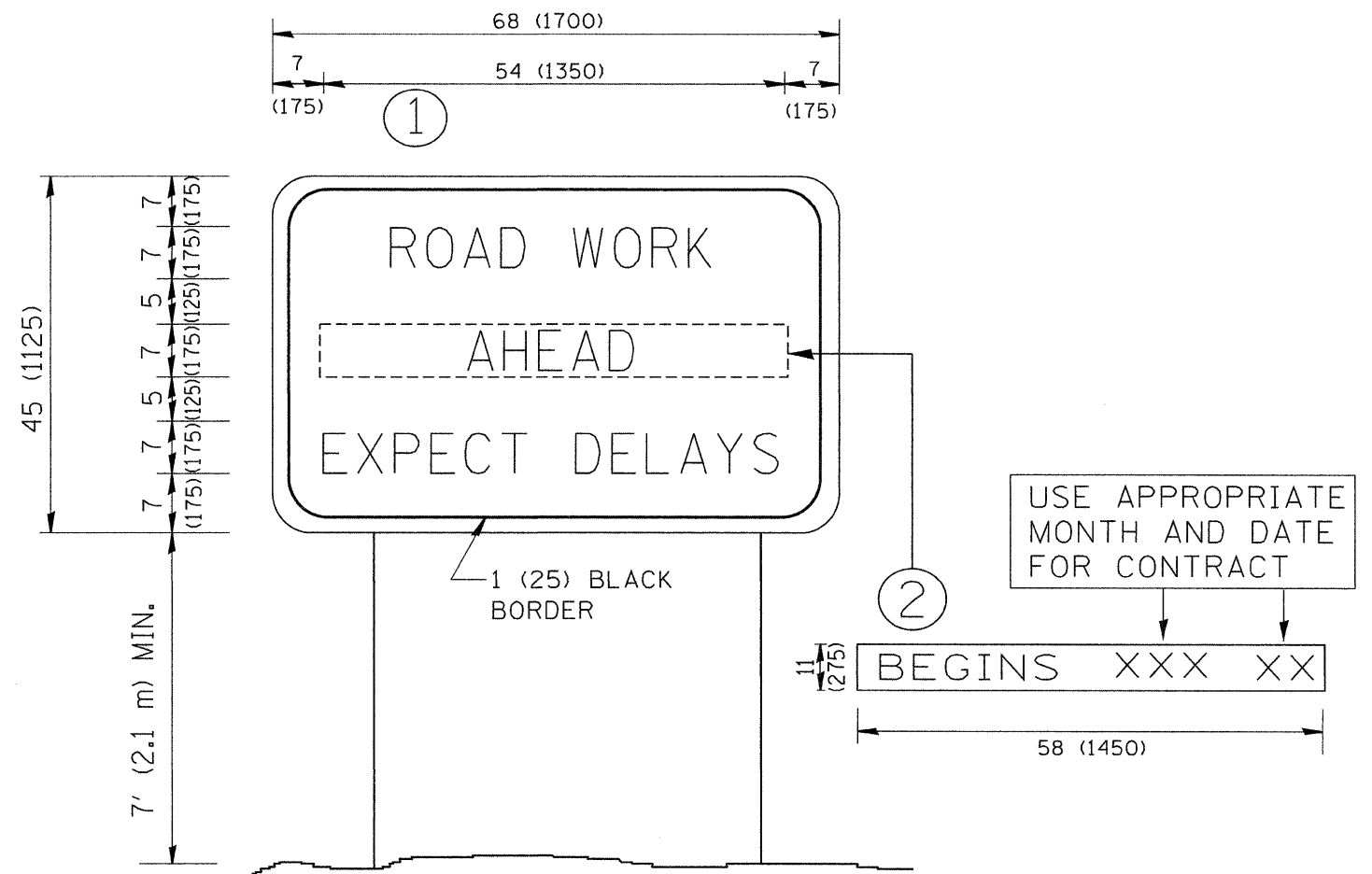
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	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E, GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 19
TC-16			CONTRACT NO. 60P50	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

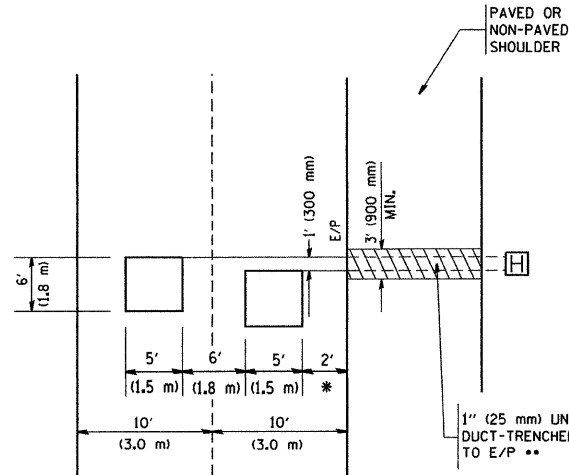
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

FILE NAME = W:\distatd\22x34\to22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>		F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		330	485Y-RS-5	COOK	21	20			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		TC-22 CONTRACT NO. 60P50	
		DATE -	REVISED - C. JUCIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT  
NOTE WHICH SHOULD EQUAL  
3' (900 mm) X WIDTH OF  
PAVED SHOULDER.

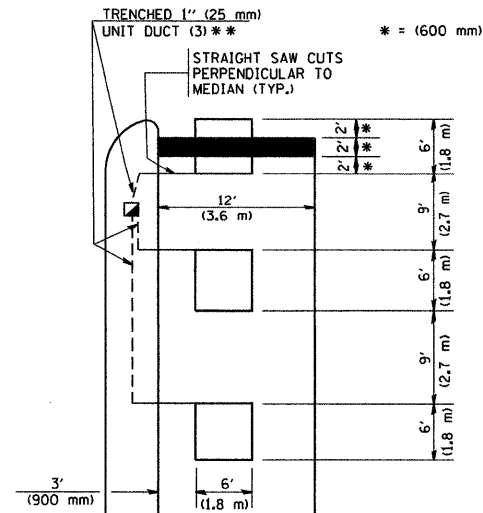


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS  
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

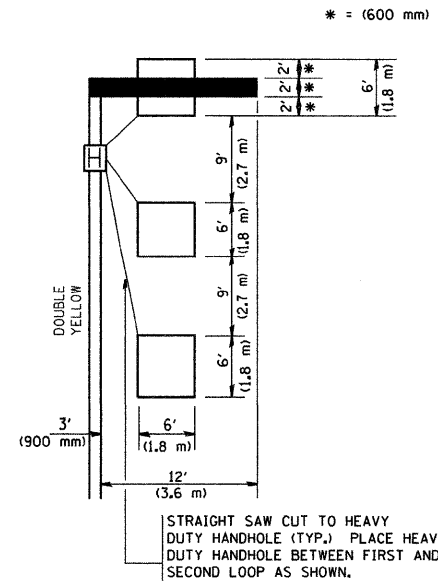
HANDHOLE LOCATION MAY  
VARY DEPENDING ON GEOMETRICS  
AND DESIGN OF TRAFFIC SIGNALS.  
HEAVY-DUTY HANDHOLES TO BE  
USED WHEN THE MEDIAN IS  
MOUNTABLE. REFER TO STANDARD  
814001 TO ENSURE THAT HANDHOLE  
FITS IN MEDIAN.



\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS  
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO  
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**



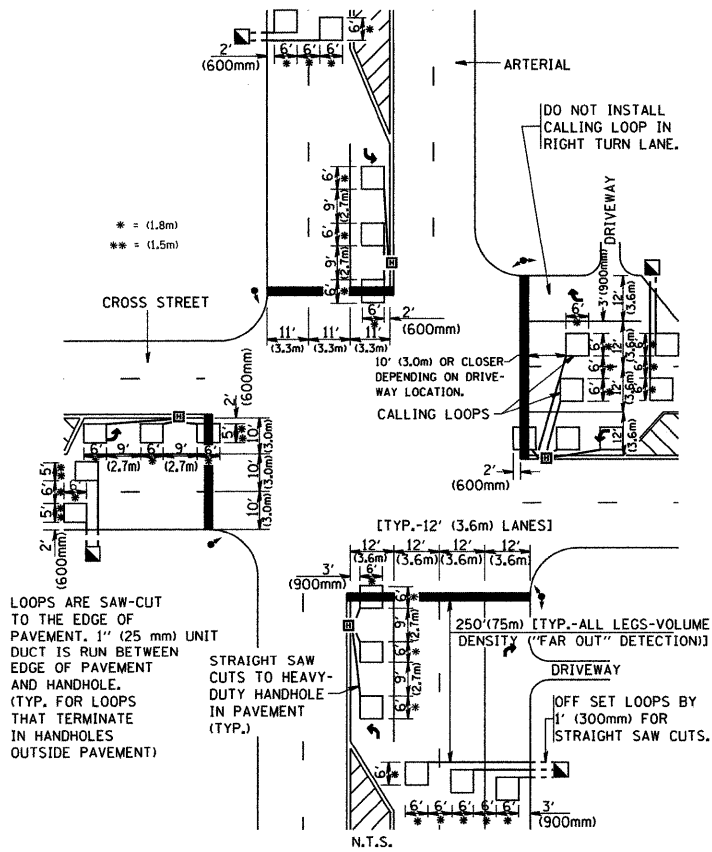
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO  
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**NOTES:**

**VEHICLES LOOP DETECTORS**

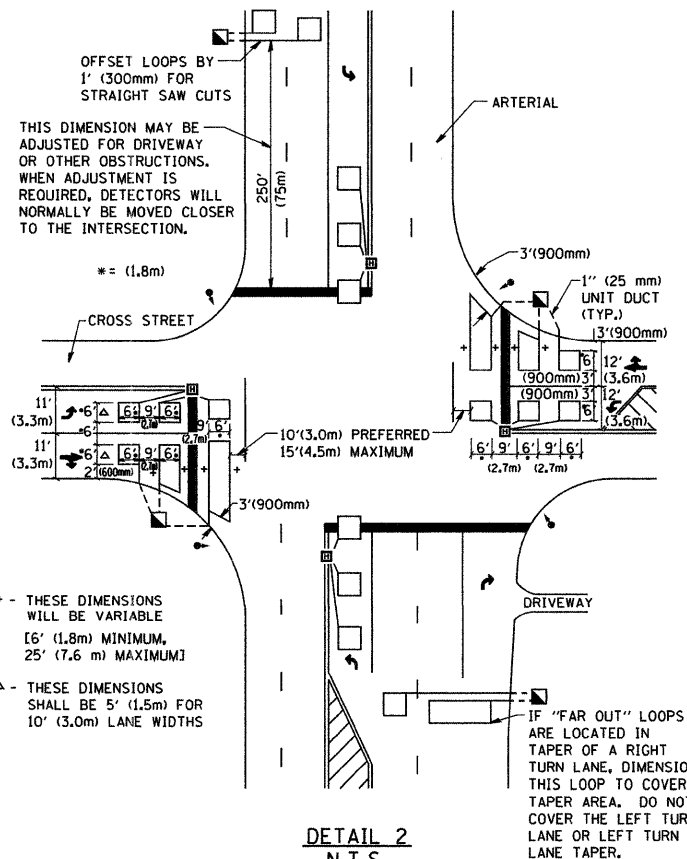
- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1  
N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2  
N.T.S.**

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = W:\diststd\22x34\ts07.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>			F.A.P. RTE. = 330	SECTION 465Y-RS-5	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 21
PLOT SCALE = 50.0000' / IN.		CHECKED - DATE -	REVISED - REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TS-07</b>		CONTRACT NO. 60P50		
PLOT DATE = 1/4/2008		DATE -	REVISED -					FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				