

FAU ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1624	09-00127-00-RS	COOK	10	1

ILLINOIS PROJECT *
CONTRACT NO.: 63272

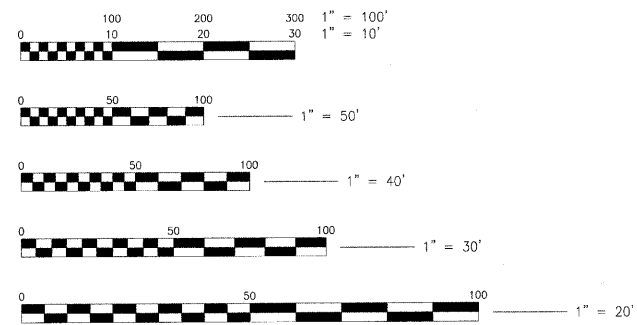
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID PROJECT
FAU 1624 / 187th STREET
FROM DIXIE HIGHWAY (FAU 2843) TO RIEGEL ROAD (FAU 2860)
VILLAGE OF HOMEWOOD
SECTION : 09-00127-00-RS
PROJECT NO.: ARA-9003(426)
COOK COUNTY
JOB NO.: C-91-855-09**

INDEX OF SHEETS

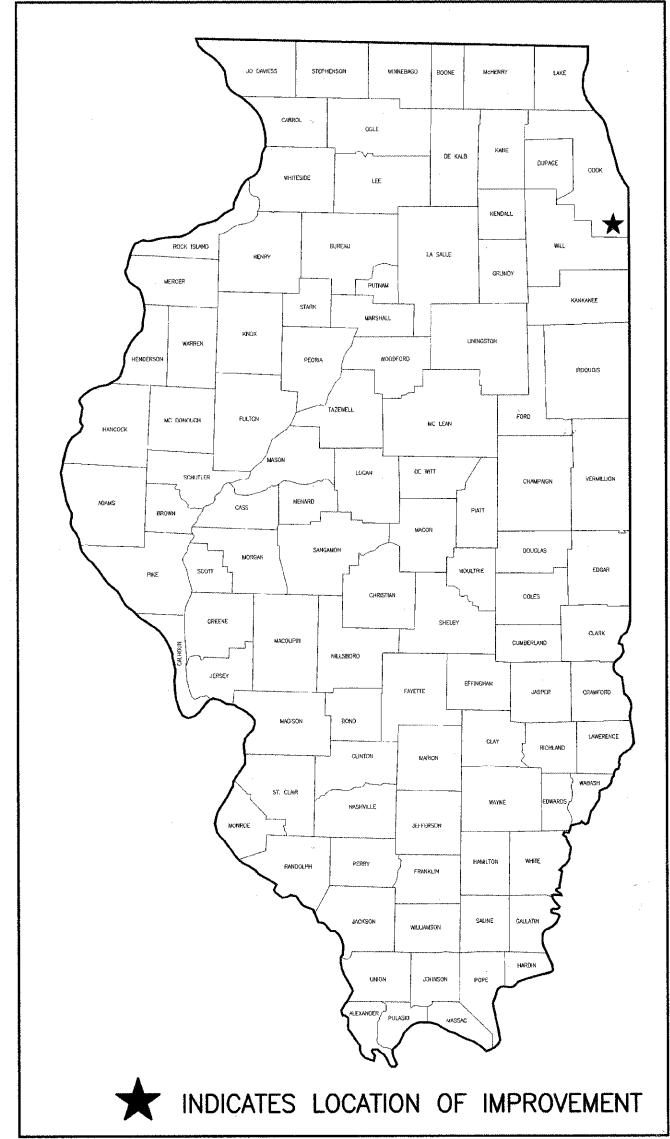
SHEET NO.	TITLE
1	COVER SHEET, INDEX & LOCATION MAP
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HIGHWAY STANDARDS

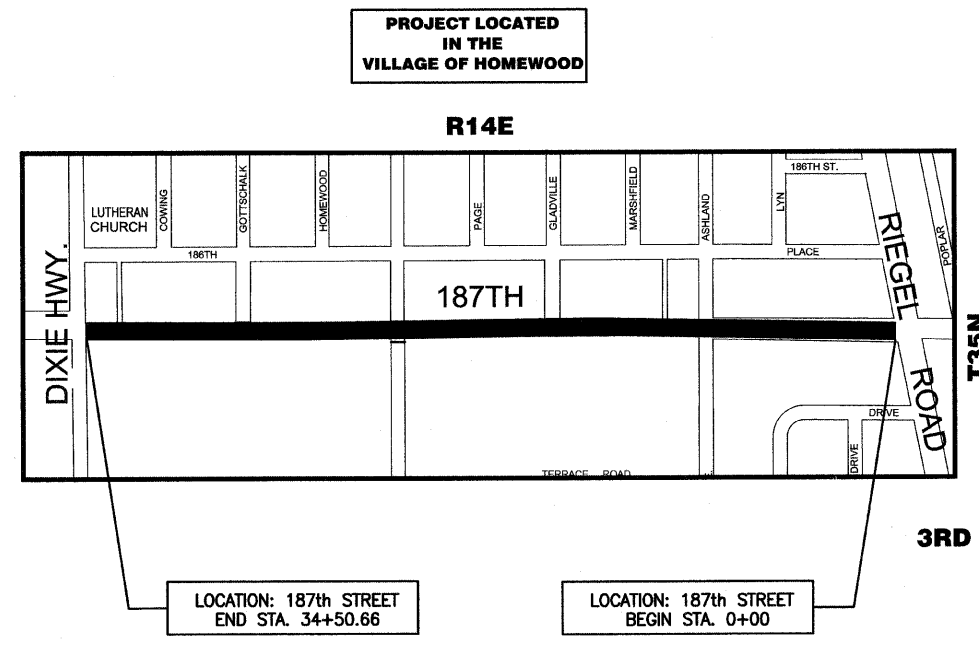
STANDARD NO.	TITLE
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-03	FRAMES AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE-B AND COMBINATION CONCRETE CURB & GUTTER
701501-05	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES



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



★ INDICATES LOCATION OF IMPROVEMENT



LOCATION: 187th STREET
END STA. 34+50.66

LOCATION: 187th STREET
BEGIN STA. 0+00

LOCATION MAP
NOT TO SCALE

TOTAL NET & GROSS LENGTH OF PROJECT = 3,448 LINEAL FEET (0.653 MILES)

187th STREET DESIGN DESIGNATION
POSTED SPEED: 25 MPH
ADT: 4,313 (2009)
COLLECTOR



VILLAGE OF HOMEWOOD
Department of Public Works
Engineering Division
17755 S. Ashland Avenue
Homewood, IL 60445
(708) 206-3470



VILLAGE ENGINEER
" LICENSE EXPIRES 11-30-09 " DATE: 10/08/09

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	OCTOBER 8 2009 <i>John Q. Hayes</i> VILLAGE PRESIDENT
PASSED	OCTOBER 27 2009 <i>Charles H. Hertz</i> DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	OCTOBER 24 2009 <i>Diana M. O'Keefe</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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THE STATE OF ILLINOIS

FIELD ENGINEER: MEL MANGOBA, (847) 705-4408

CALL JULIE (800) 892-0123
WITH THE FOLLOWING INFORMATION:
COUNTY = COOK
48 HOURS BEFORE YOU DIG
EXCLUDING SAT., SUN. & HOLIDAYS

CONTRACT NO.: 63272



CONTRACT NO.: 63272

SUMMARY OF QUANTITIES

ITEM NO.	PAY ITEM	UNIT	TOTAL
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	250
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4
25200110	SODDING, SALT TOLERANT	SQ YD	250
25200200	SUPPLEMENTAL WATERING	UNIT	5
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,122
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	471
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	810
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,011
42400800	DETECTABLE WARNINGS	SQ FT	30
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	11,221
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	869
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	SQ YD	67
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	12,031
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, AND OPEN LID	EACH	5
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,200
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,062
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	148
44004600	SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	2,420
XX003435	PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	25
XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	25
X0321558	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	15

* SPECIALTY ITEM



**VILLAGE OF HOMEWOOD
ENGINEERING DIVISION**

DESIGNED BY:	D.J.A.
DRAWN BY:	D.J.A.
CHECKED BY:	M.M.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

VILLAGE OF HOMEWOOD 187th STREET L.A.P.P. PROJECT SUMMARY OF QUANTITIES	
DATE:	10-14-09
SCALE:	NOT TO SCALE

SHEET 2 OF 10

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1624	09-00127-00-RS	COOK	10	3

ILLINOIS PROJECT *

CONTRACT NO.: 63272

GENERAL NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2007 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE LATEST EDITION OF THE "ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE MANUAL OF TEST PROCEDURES FOR MATERIALS IN EFFECT ON THE DATE OF INVITATION FOR BID. THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET INCLUDED HEREIN WHICH APPLY TO AND GOVERN THE CONSTRUCTION OF THE LOCAL AREA PAVEMENT PRESERVATION PROGRAM, FAU ROUTE 1624, SECTION 09-00127-00-RS, PROJECT NO. M-, COOK COUNTY, ILLINOIS AND IN CASE OF CONFLICT WITH ANY PART OR PARTS OF SAID SPECIFICATIONS, THE SAID SPECIAL PROVISIONS SHALL TAKE PRECEDENCE AND GOVERN.

ALL REFERENCES TO THE "VILLAGE" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE VILLAGE OF HOMEWOOD.

THE FINISHED HMA SURFACE SHALL BE CONSTRUCTED 1/4 - INCH ABOVE THE GUTTER FLAG.

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE VILLAGE AND THE ENGINEER DO NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING THE CONSTRUCTION OPERATION SO AS NOT TO DAMAGE THEM. IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS," THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE "STANDARD SPECIFICATIONS."

THOSE EXISTING TRAFFIC SIGNS WHICH ARE SO DESIGNATED BY THE ENGINEER SHALL BE REMOVED, STORED AND SUBSEQUENTLY RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE VILLAGE. IN ADDITION, ANY SIGNS WHICH ARE DAMAGED BEYOND REPAIR BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AND TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND THE IDOT STANDARDS FOR TRAFFIC CONTROL AND PROTECTION.

WHERE THE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT TO REMAIN IN PLACE (BEGIN, END AND LIMITS OF CONSTRUCTION), EXISTING DRIVEWAY PAVEMENT, SIDEWALK TO REMAIN IN PLACE. THE EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING SURFACES. THIS SAW CUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "HMA SURFACE REMOVAL - BUTT JOINT".

CURB & GUTTER, DRIVEWAY AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE LIMITED TO WORKING ON ONE SIDE OF THE STREET IN EACH DIRECTION AT ALL TIMES TO MINIMIZE CONGESTION. NO CURB & GUTTER SHALL BE REMOVED ON FRIDAYS. CONCRETE SHALL HAVE A MINIMUM OF 72 HOURS CURING TIME AND DRIVEWAYS SHALL BE ACCESSIBLE PRIOR TO REMOVING EXISTING CURB ON THE OTHER SIDE OF THE STREET.

ALL FRAME AND GRATES TO BE REPLACED SHALL REMAIN THE PROPERTY OF THE VILLAGE OF HOMEWOOD AND SHALL BE DELIVERED TO THE PUBLIC WORKS BUILDING BY THE CONTRACTOR. DELIVERY OF OLD FRAMES AND GRATES TO THE VILLAGE OF HOMEWOOD DEPARTMENT OF PUBLIC WORKS SHALL BE INCLUDED INTO THE COST OF THE WORK TO WHICH IT IS APPLIED.

THE CONTRACTOR(S) AND THEIR SUBCONTRACTOR(S) SHALL CONTACT J.U.L.I.E. (800) 892-0123 AND THE VILLAGE OF HOMEWOOD/DEPARTMENT OF PUBLIC WORKS (708) 206-3470 BEFORE DIGGING.

THE CONTRACTOR SHALL NOTIFY ENGINEER 24 HOURS PRIOR TO BEGINNING WORK SO THAT CARS CAN BE REMOVED FROM DRIVEWAYS. WORK MUST BE PLANNED TO MINIMIZE THE TIME DRIVEWAYS ARE OUT OF SERVICE. WORK SHALL BE SCHEDULED SO THAT DRIVES PULLED ON THE FIRST WORKING DAY ARE FORMED AND POURED BY THE THIRD WORKING DAY. BEYOND THIS 3 DAY TIME IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AT HIS OWN EXPENSE TEMPORARY AGGREGATE FOR ACCESS TO THE DRIVEWAY. NO CURB IN FRONT OF DRIVEWAYS SHALL BE REMOVED ON FRIDAYS.

DEBRIS REMOVAL - MATERIALS RESULTING FROM THE VARIOUS CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IN THE JUDGEMENT OF THE ENGINEER, SHOULD IT BE NECESSARY TO REMOVE SUCH MATERIALS, THE VILLAGE WILL REMOVE DEBRIS AND THE CONTRACTOR SHALL BE BILLED ACCORDINGLY.

WATER SUPPLY - THE CONTRACTOR CAN OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A WATERING BAN IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR. WATER IS AVAILABLE AT 17755 S. ASHLAND AVENUE, MUNICIPAL SERVICE CENTER FIRE HYDRANT. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER. THE SUPPLY OF WATER BY THE CONTRACTOR SHALL BE INCLUDED IN THE COST OF SUPPLEMENTAL WATERING.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/HR) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/HR). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

ALL TREES SHALL BE SAVED. THE CONTRACTOR SHALL ERECT EITHER TEMPORARY FENCING OR TREE TRUNK PROTECTION AS DIRECTED BY THE ENGINEER PER ARTICLE 201.5 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL DAMAGE PER ARTICLE 201.07 OF THE STANDARD SPECIFICATIONS. TREE PROTECTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF MOBILIZATION.

PROTECTIVE COAT SHALL BE APPLIED TO THE SURFACE OF ALL COMBINATION CONCRETE AND GUTTER AND PORTLAND CEMENT CONCRETE SIDEWALK AND DRIVEWAYS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 420.18 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE WORK TO WHICH IT IS APPLIED.

PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE TO THE VILLAGE A VIDEO TAPE COVERING FROM RIGHT-OF-WAY TO RIGHT-OF-WAY OF ALL ROADWAYS TO BE IMPROVED. THIS WORK SHALL BE INCLUDED IN THE COST OF MOBILIZATION.

WHEN REMOVING PAVEMENT, CURB AND GUTTER, SIDEWALK, DRIVEWAY PAVEMENT, PARKING LOT PAVEMENT, AND/OR OTHER STRUCTURES, THE USE OF ANY TYPE OF CONCRETE BREAKER WHICH MIGHT DISTURB UNDERGROUND PUBLIC UTILITIES WILL NOT BE PERMITTED.

PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, THE ENGINEER AND CONTRACTOR, JOINTLY, SHALL PERFORM A VISUAL INSPECTION OF VILLAGE DRAINAGE AND UTILITY STRUCTURES TO DETERMINE THE AMOUNT OF EXISTING DEBRIS IN EACH STRUCTURE. THE CONTRACTOR WILL BE REQUIRED TO CLEAN THOSE STRUCTURES WITH DEBRIS THAT WERE CLEAN AT THE BEGINNING OF CONSTRUCTION AT NO ADDITIONAL COST TO THE CONTRACT.

MILLING OF PAVEMENT SHALL BE DONE SO AS TO NOT DAMAGE THE ADJACENT CURB OR STRUCTURES. REMOVAL ADJACENT TO THESE STRUCTURES SHALL BE ACCOMPLISHED TO THE SATISFACTION OF THE ENGINEER AND MAY REQUIRE HANDWORK.



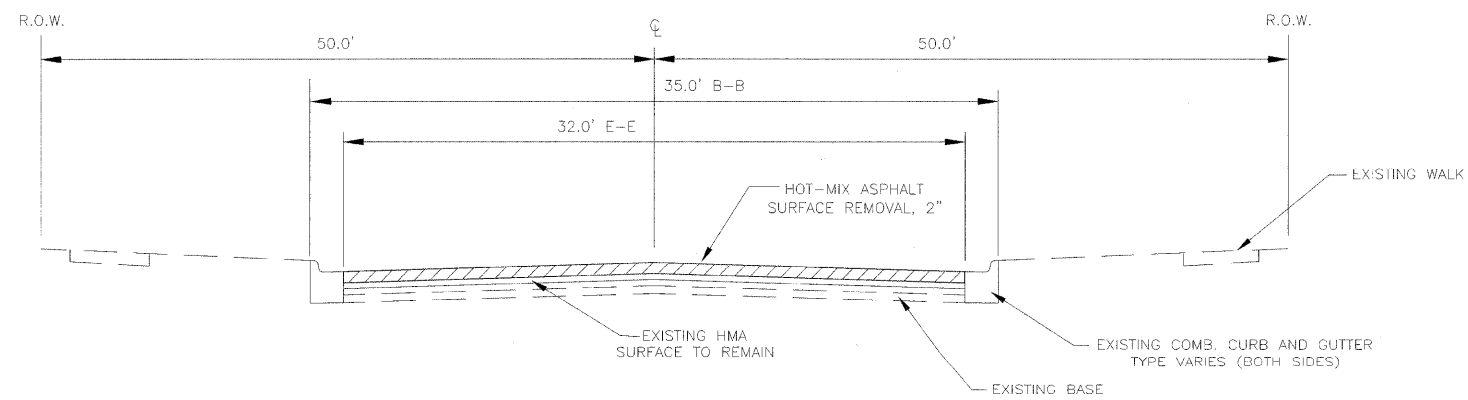
VILLAGE OF HOMEWOOD
ENGINEERING DIVISION

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CHECKED BY:	M.M.

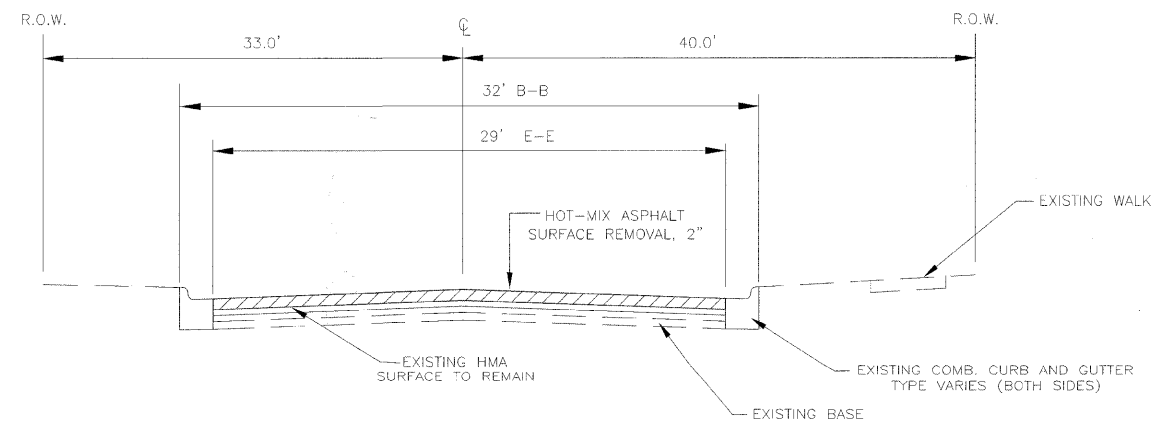
REVISIONS			
NO.	DATE	BY	DESCRIPTION

VILLAGE OF HOMEWOOD 187th STREET L.A.P.P. PROJECT		
GENERAL NOTES		
DATE:	10-07-09	SCALE: NOT TO SCALE

SHEET	3
OF 10	



EXISTING TYPICAL SECTION
STA. 00+00 to STA. 8+00, 187th STREET



EXISTING TYPICAL SECTION
STA. 8+00 to STA. 34+50.66, 187th STREET



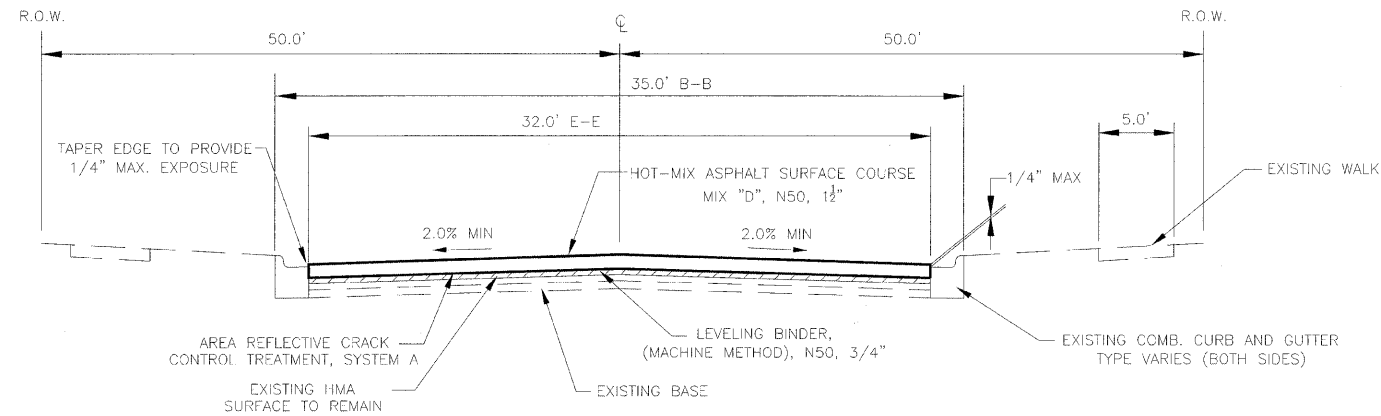
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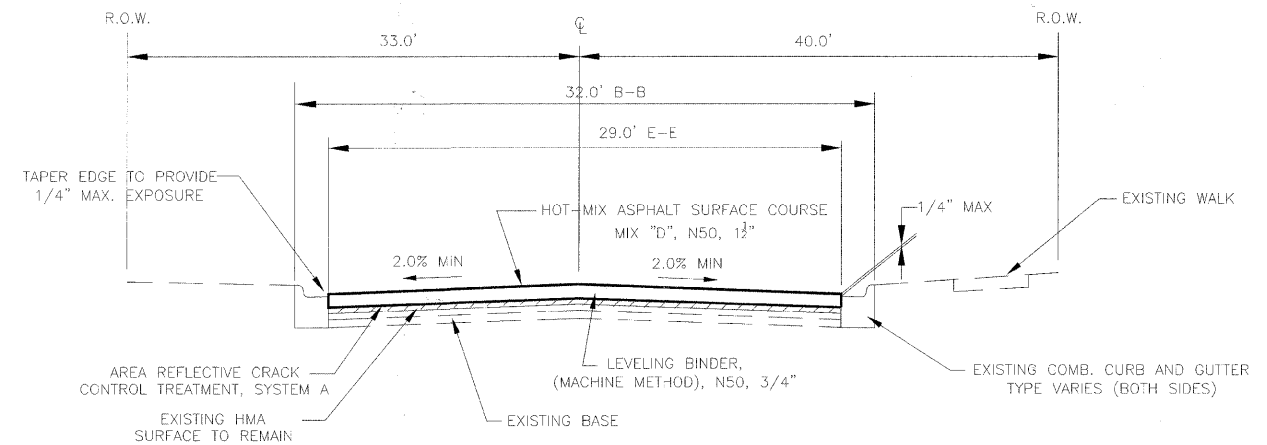
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NO.	DATE	BY	DESCRIPTION

VILLAGE OF HOMEWOOD
187th STREET L.A.P.P. PROJECT
187th STREET (FAU ROUTE 1624)
EXISTING TYPICAL SECTIONS
DATE: 10-07-09 SCALE: NOT TO SCALE

SHEET
4
OF 10



PROPOSED TYPICAL SECTION
STA. 0+00 to 8+00, 187th STREET



PROPOSED TYPICAL SECTION
STA. 8+00 to STA. 34+50.66, 187th STREET

NOTES:

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" 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.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	VOIDS@ Ndes
PAVEMENT RESURFACING	
LEVELING BINDER (MACHINE METHOD), N50 (IL-9.5mm)	4% @ 50 GYR
HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (IL-9.5mm)	4% @ 50 GYR
PATCHING	
CLASS D PATCHES, TYPE IV, 5" HMA BINDER COURSE (IL-19mm)	4% @ 70 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-95mm), 3"	4% @ 50 GYR

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



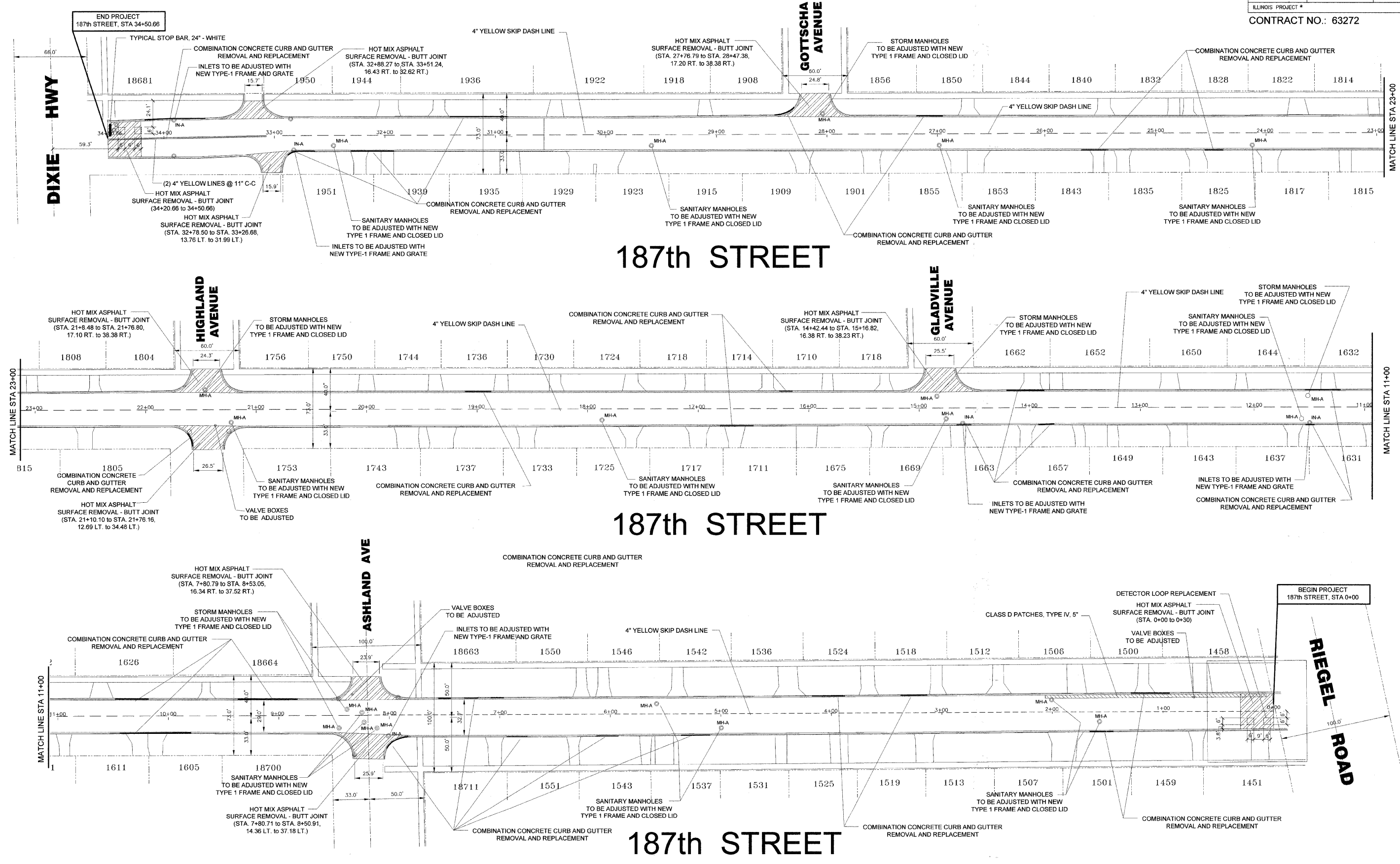
VILLAGE OF HOMEWOOD
ENGINEERING DIVISION

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NO.	DATE	BY	DESCRIPTION

VILLAGE OF HOMEWOOD 187th STREET L.A.P.P. PROJECT 187th STREET (FAU ROUTE 1624) PROPOSED TYPICAL SECTIONS	
DATE: 10-07-09	SCALE: NOT TO SCALE

SHEET
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OF 10



**VILLAGE OF HOMEWOOD
ENGINEERING DIVISION**

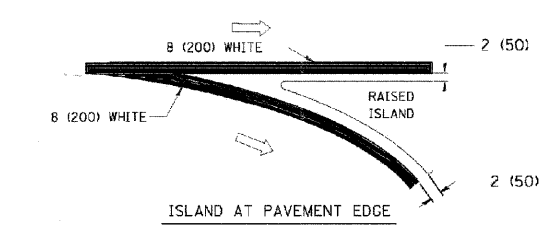
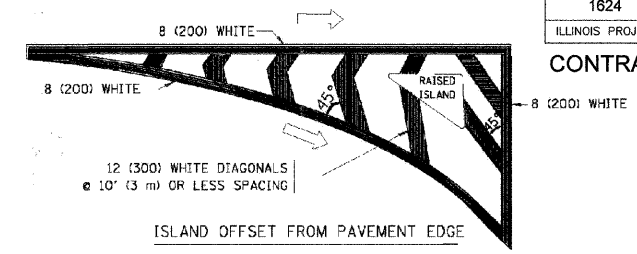
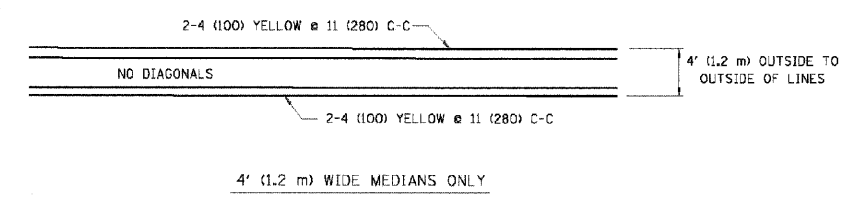
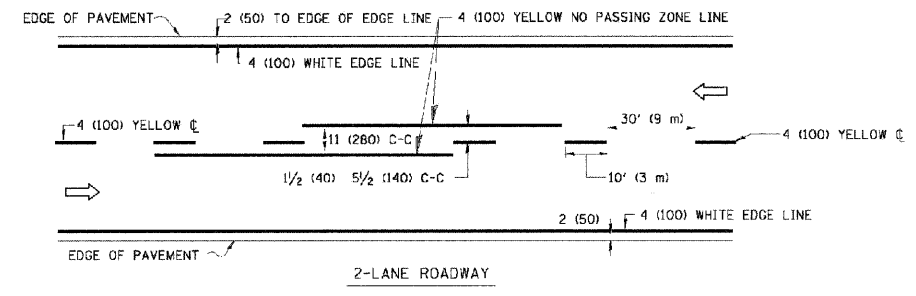
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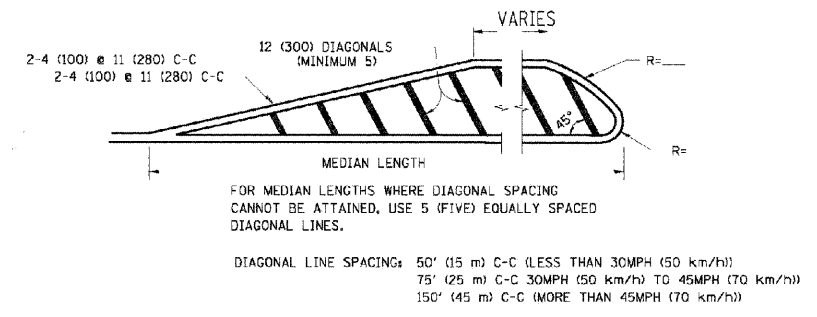
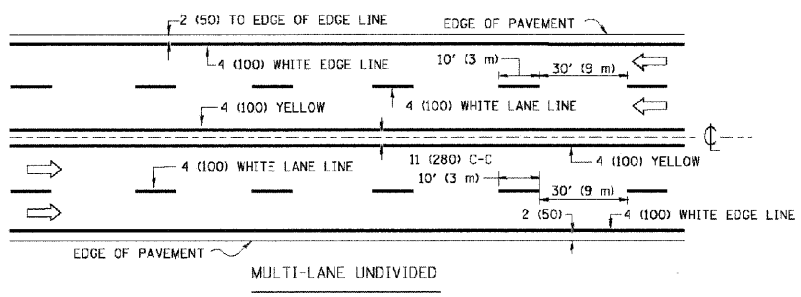
VILLAGE OF HOMEWOOD
187th STREET L.A.P.P. PROJECT
187th STREET (FAU ROUTE 1624) EXISTING & PROPOSED
ROADWAY AND PAVEMENT MARKING PLAN
STA. 0+00 TO STA. 35+50.66

DATE: 09-10-09 SCALE: 1" = 40'

SHEET
6
OF 10

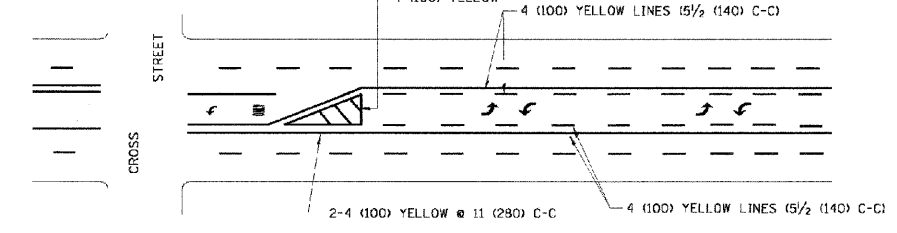
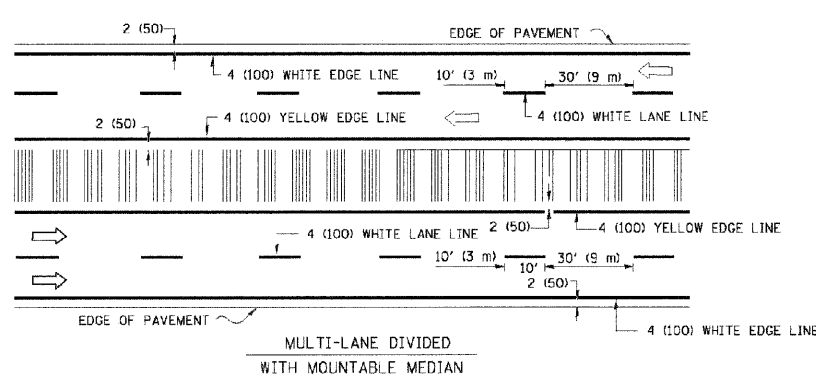


TYPICAL ISLAND MARKING

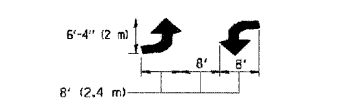


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))



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.



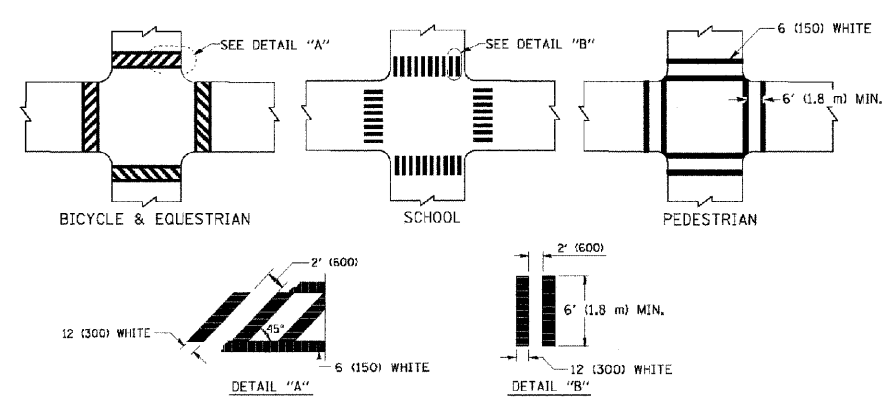
TYPICAL PAINTED MEDIAN MARKING

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 1/2 (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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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. (10.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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))

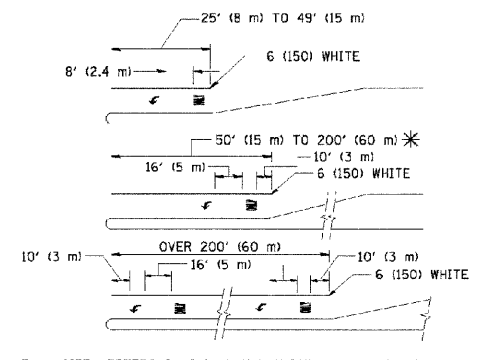
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

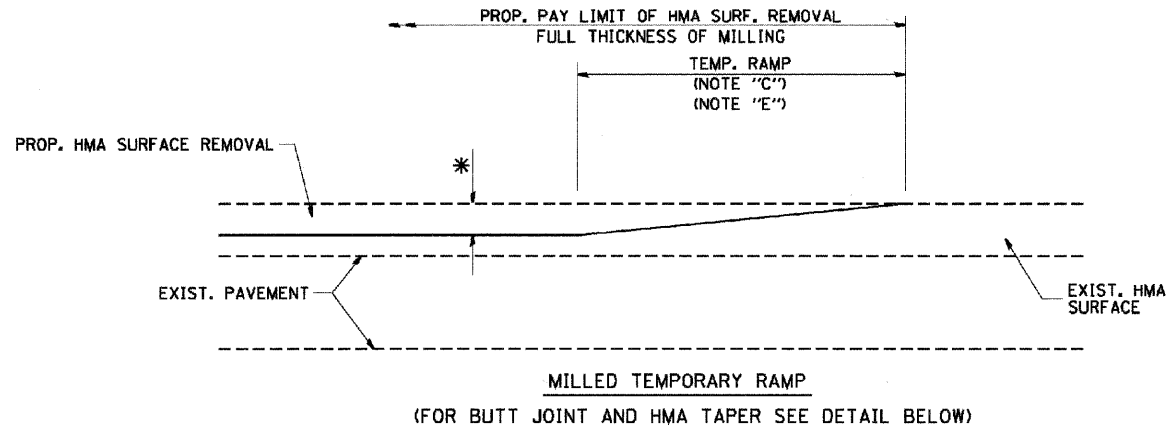


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

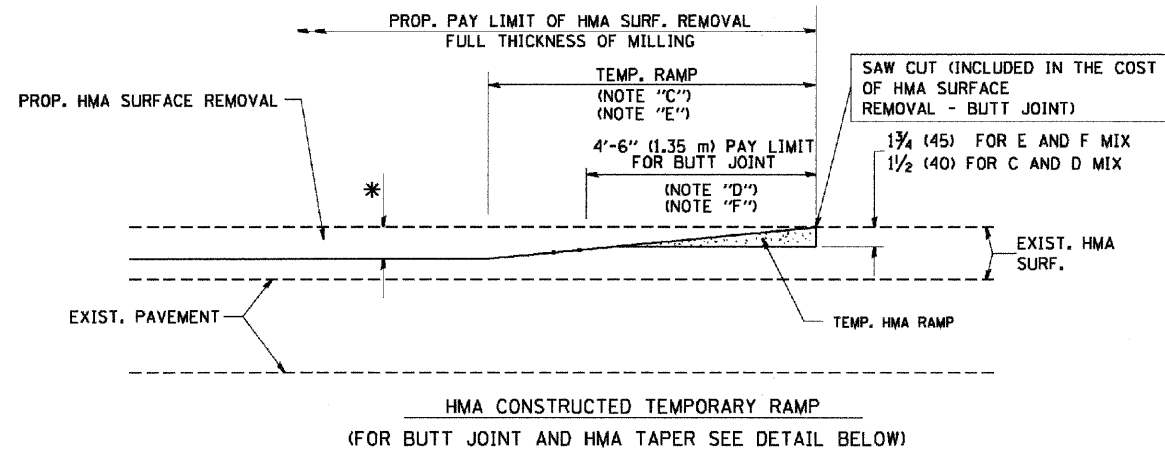
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

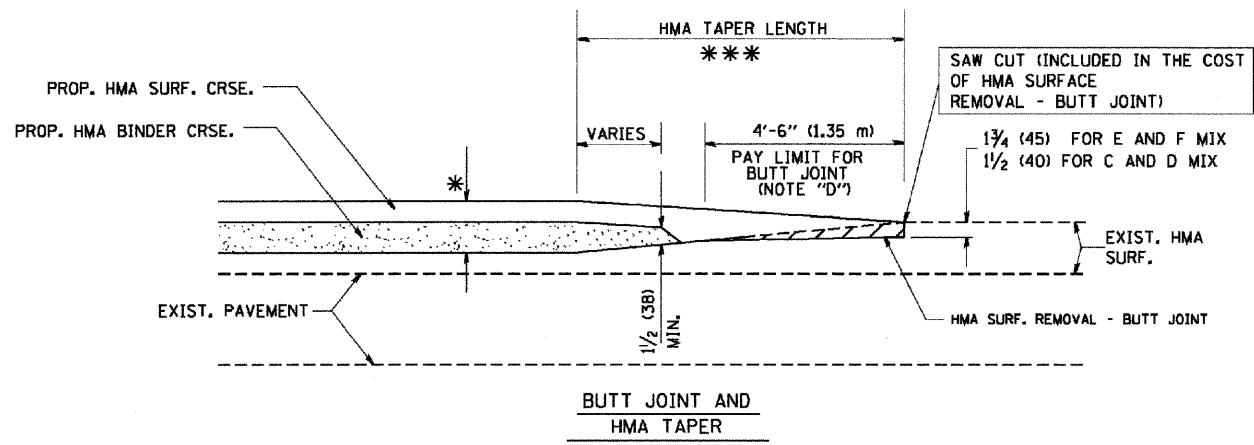
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1624	09-00127-00-RS	COOK	10	8
STA.		TO STA.		
FED. AID PROJECT				



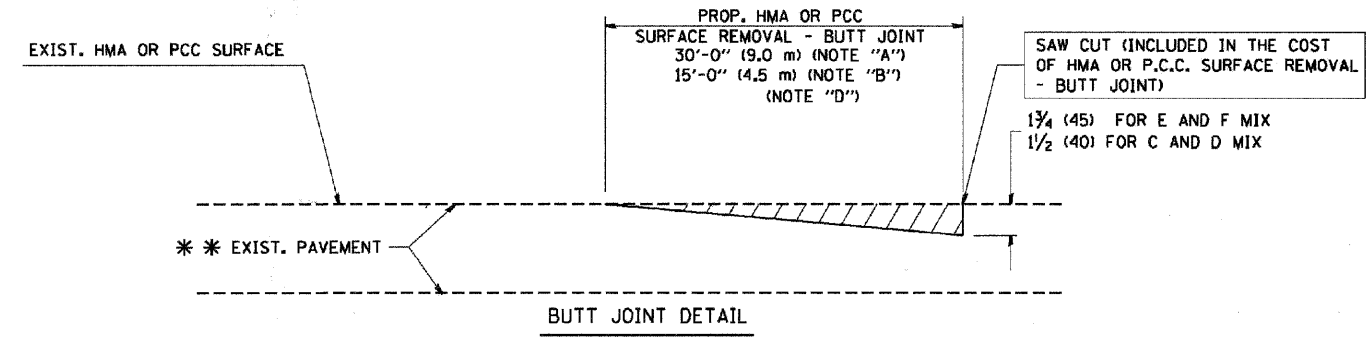
OPTION 1



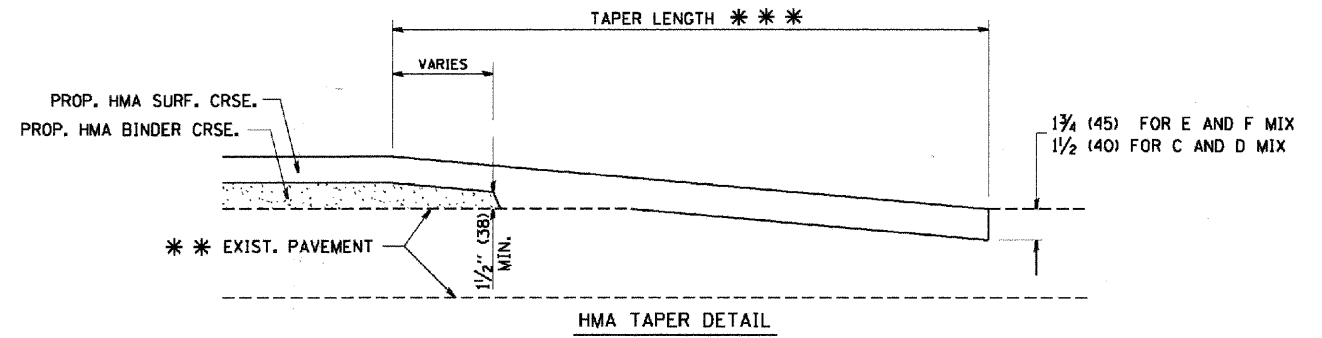
OPTION 2
TYPICAL TEMPORARY RAMP



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")

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

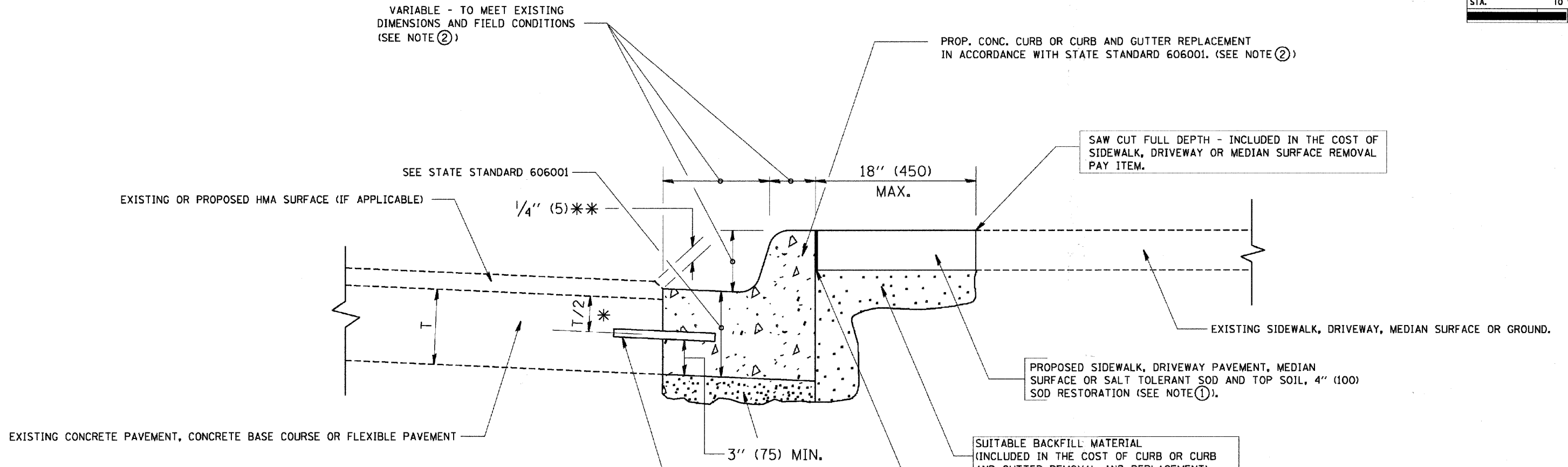
BUTT JOINT AND
HMA TAPER
DETAILS

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 1/18/2007

DRAWN BY
CHECKED BY

PLOT DATE = 1/18/2007
 FILE NAME = c:\p\proj\ad\ad12\ad12.dgn
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = drivelog

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1624	09-00127-00-RS	COOK	10	9
STA.		TO STA.		
FED. AID PROJECT				



* 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.

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".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ.
PLOT DATE: 1/18/2007

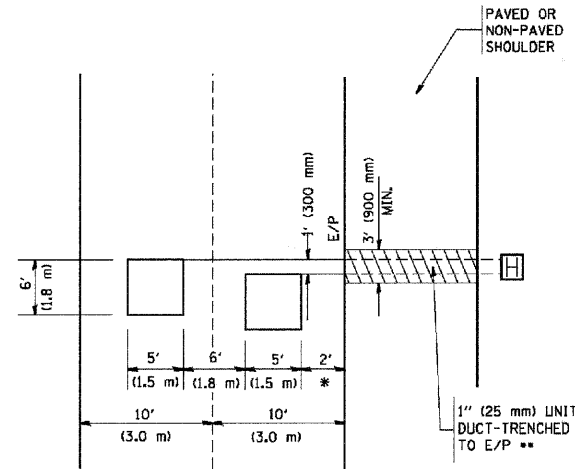
DRAWN BY
CHECKED BY
BD600-06 (BD-24)

REVISION DATE: 01/01/07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1624	09-00127-00-RS	COOK	10	10
STA.		TO STA.		
FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

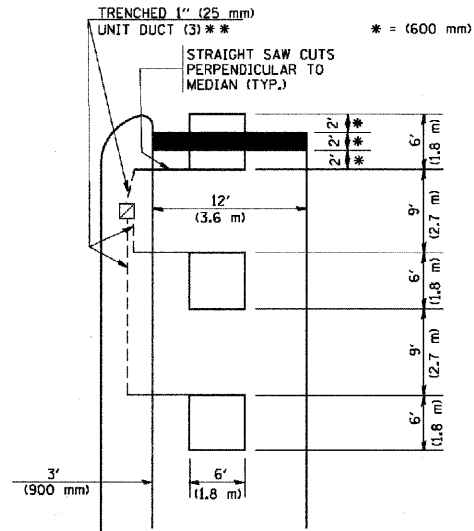


* = (600 mm)

** 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)

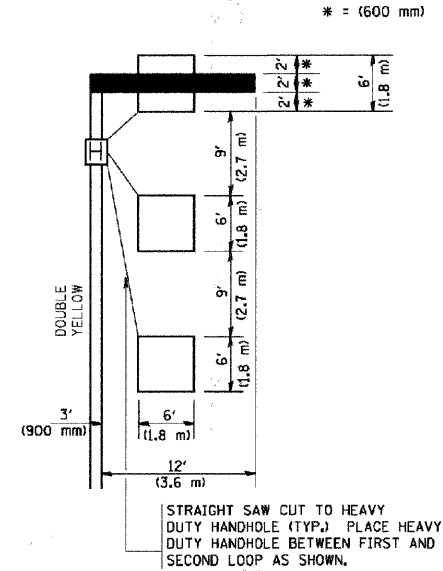
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** 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)



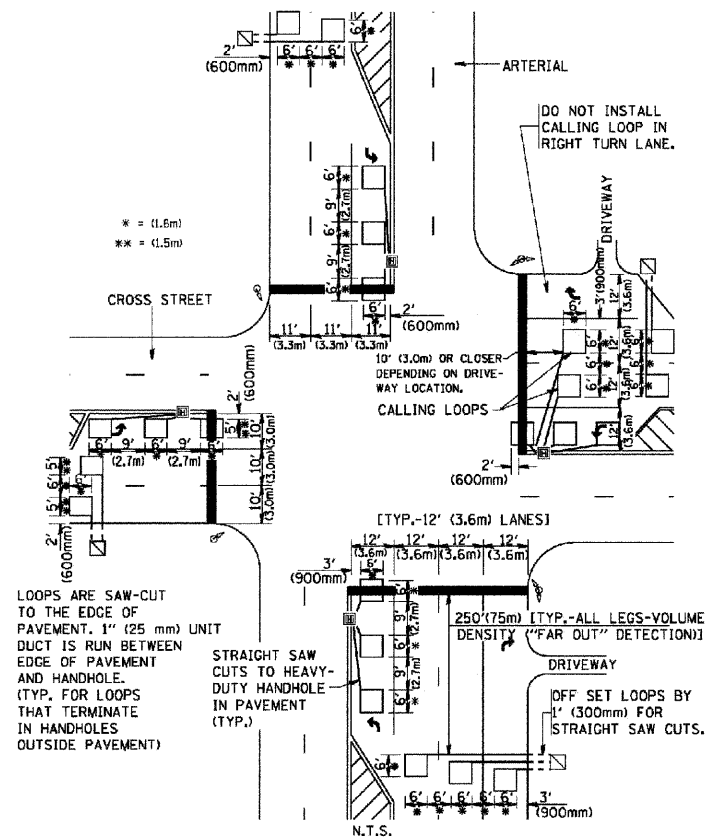
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

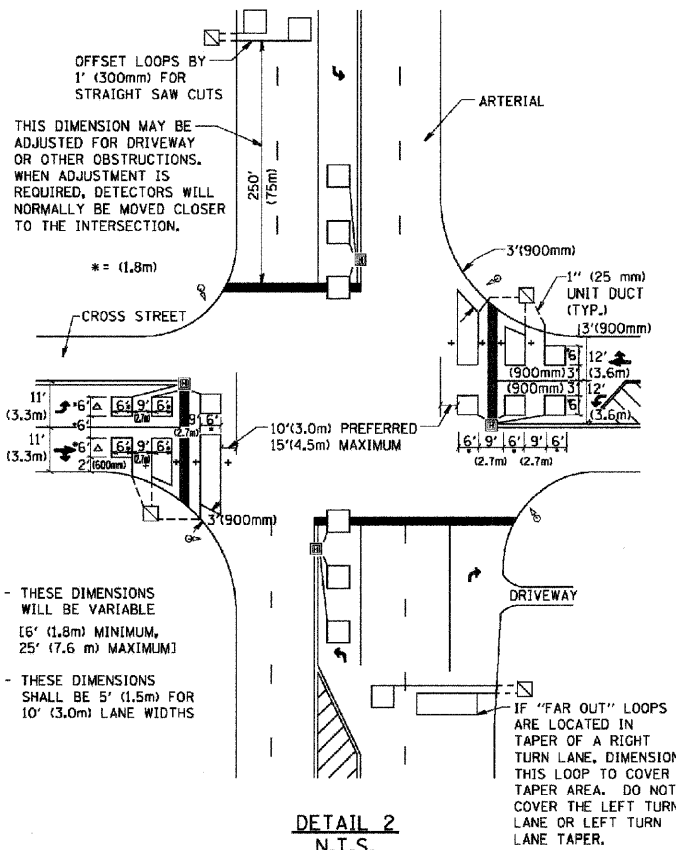
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. 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 DIMENSIONS 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 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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING

SCALE: NONE
DATE: 2/15/2006

DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
TS07
REVISION DATE: