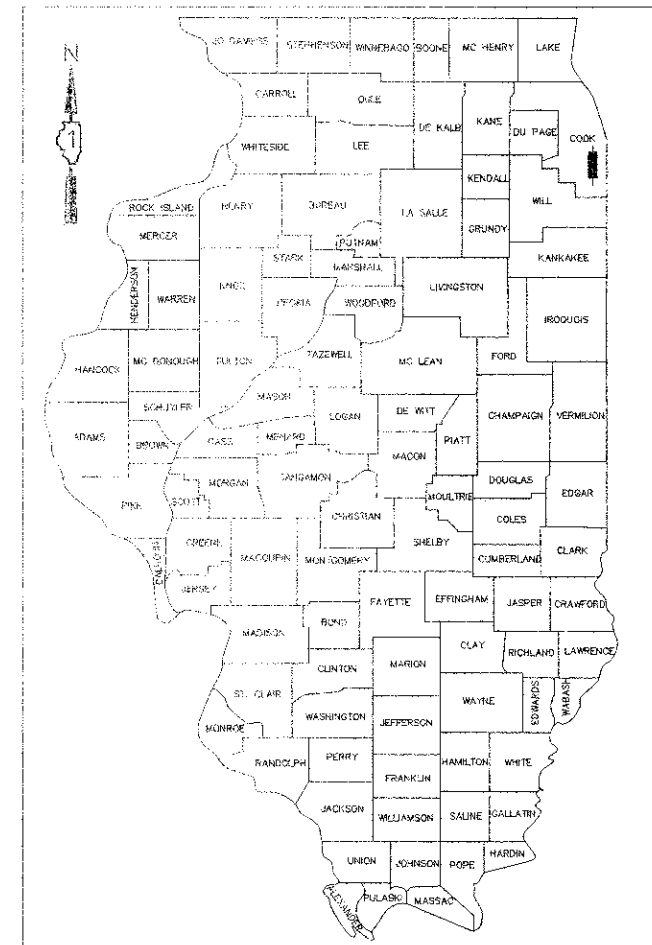


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED  
FEDERAL AID PROJECT**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1711	12-00043-00-RS	COOK	11	1
FEDERAL ROAD DISTRICT NO. 1 ILLINOIS		CONTRACT NO. 63798		



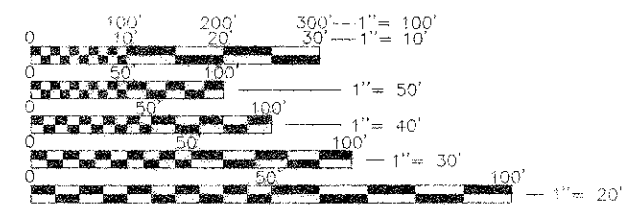
LOCATION OF SECTION INDICATED THIS:

**FAU 1711 (CENTRAL PARK AVENUE)  
163RD STREET TO 159TH STREET  
STREET RESURFACING  
SECTION No. 12-00043-00-RS  
PROJECT No. M-4003(122)  
JOB No. C-91-123-13  
CITY OF MARKHAM  
COOK COUNTY**

- INDEX OF SHEETS**
- 1 COVER SHEET
  - 2 SUMMARY OF QUANTITIES
  - 3 TYPICAL SECTIONS
  - 4 SCHEDULE OF QUANTITIES AND GENERAL NOTES
  - 5-7 RESURFACING/PAVEMENT MARKING PLAN
  - 8-12 DETAILS

FOR INDEX OF HIGHWAY STANDARDS  
SEE SHEET NO. 4

CENTRAL PARK AVENUE URBAN COLLECTOR  
ADT= 1,942 (2010)  
POSTED SPEED LIMIT=20 M.P.H.



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

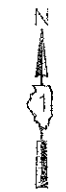
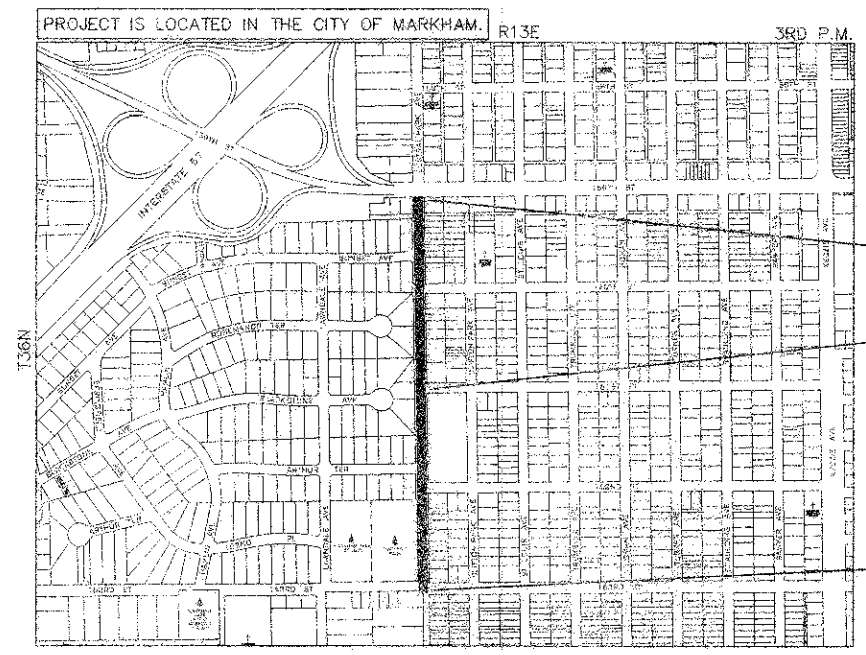
PLANS PREPARED BY:

VANTAGE POINT

ENGINEERING

18351 NORTH CREEK DRIVE SUITE F TWIN LAKES, IL 60077 T-708.674.8888 INFO@VPENG.COM

VPENG.COM | CIVIL ENGINEERING | LAND PLANNING | SURVEYING



PROJECT ENDS STA. =27+15

PROJECT LOCATION

PROJECT BEGINS STA. =0+64

LOCATION MAP  
N.E.S.  
BREMEN TOWNSHIP

GROSS LENGTH OF PROJECT = 2,651 FEET (0.50 MI)  
NET LENGTH OF PROJECT = 2,651 FEET (0.50 MI)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED David L. ... 01/11 2013  
MAYOR, CITY OF MARKHAM

PASSED 6-27 2013  
...  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR  
SIO BASED ON  
LIMITED REVIEW ... 01/11/13  
...  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

Geoffrey G. Aggen 01/11/13  
ENGINEER DATE

GEOFFREY G. AGGEN  
ILLINOIS REGISTRATION NO. 062059407  
EXPIRATION DATE: 11/30/13

CONTRACT NO. 63798

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847)705-4406, SCHAMBURG, IL  
CONSULTANTS: VANTAGEPOINT ENGINEERING, LLC (708) 478-4004

SUMMARY OF QUANTITIES					PAVEMENT	
S.I.	PAY CODE	PAY ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE	
					0005	
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2030	2030	
	40600300	AGGREGATE (PRIME COAT)	TON	45	45	
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3	
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	430	430	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	145	145	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	855	855	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	50	50	
*	42400800	DETECTABLE WARNINGS	SQ FT	24	24	
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	10130	10130	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	30	30	
	44000600	SIDEWALK REMOVAL	SQ FT	50	50	
	44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	250	250	
	44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	10	10	
	44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	20	20	
	44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	40	40	
	44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	300	300	
*	48101200	AGGREGATE SHOULDERS, TYPE B	TON	4	4	
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2	
	67100100	MOBILIZATION	L SUM	1	1	
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
o	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	60	60	
o	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	80	80	
o	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	35	35	
o	88600600	DETECTOR LOOP REPLACEMENT	FOOT	125	125	
*	XX002258	STRUCTURES TO BE ADJUSTED	EACH	18	18	
*	Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	30	30	
*	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	650	650	

\* - INDICATES SPECIAL PROVISION    o - INDICATES SPECIALTY ITEM

FILE NAME → H:\12\12-025\PLANS\SUMMARY OF QUANTITIES.dwg	USER NAME → GGA	DESIGNED → GGA	REVISED → 12/04/12	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	CENTRAL PARK FROM 169TH ST. TO 163RD ST. LAFO				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE →	CHECKED → MAW	DRAWN → BYL	REVISED → 01/10/13		SUMMARY OF QUANTITIES				171	12--00043--00--RS	COOK	11	2
PLOT DATE → 01/10/13 - 18:27 by Gccff	DATE →	REVISOR →	REVISOR →		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 63798	
										FED. ROAD DIST. NO. 1	ELONGS	FED. AID PROJECT M-4503(122)	

- ① HOT MIX ASPHALT SURFACE REMOVAL, 2", S.Y.
- ② EXISTING HOT-MIX ASPHALT PAVEMENT
- ③ EXISTING AGGREGATE BASE
- ④ CLASS D PATCHES, TYPE I, TYPE II, TYPE III OR TYPE IV, 4" OR 6" (LOCATIONS AS DIRECTED BY RE), S.Y.
- ⑤ EXISTING CURB & GUTTER TO BE REMOVED, FT.
- ⑥ EXISTING DRIVEWAY PAVEMENT TO BE REMOVED, S.Y.
- ⑦ HOT MIX ASPHALT SURFACE COURSE, MIX D, N50 - 1 1/2", TON
- ⑧ COMBINATION CONCRETE CURB & GUTTER, M-2.12, FT.
- ⑨ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4", TON
- ⑩ HOT MIX ASPHALT SURFACE COURSE, MIX D, N50, 3"

NOTE: PRIMECOAT, MC-30, SHALL BE APPLIED BETWEEN THE SUB-BASE AND BASE COURSE AT A RATE OF 0.5 GAL/SY.

PRIMECOAT, MC-30, SHALL BE APPLIED BETWEEN BASE, BINDER AND SURFACE COURSES AT A RATE OF 0.10 GAL/SY.

AGGREGATE PRIME COAT SHALL BE APPLIED OVER PRIME COATS AT A RATE OF 4 LB/SY.

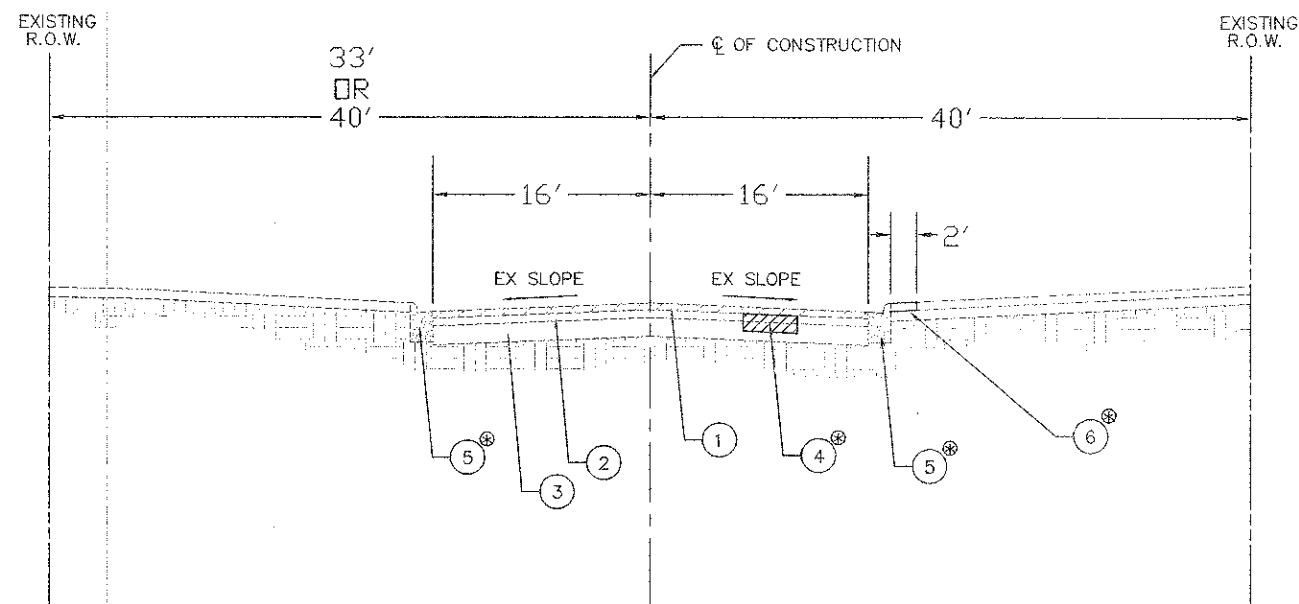
CONTRACTOR SHALL MILL BEFORE PATCHING.

MIXTURE TYPE	AIR VOIDS @ N <sub>DES</sub>
<b>RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) 1 1/2"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
<b>DRIVEWAYS</b>	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) 3"	4% @ 50 Gyr.
<b>PATCHING</b>	
CLASS D PATCHES, TYPE I, II, III OR IV, 4" OR 6" (HMA BINDER IL-19.0mm)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

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.

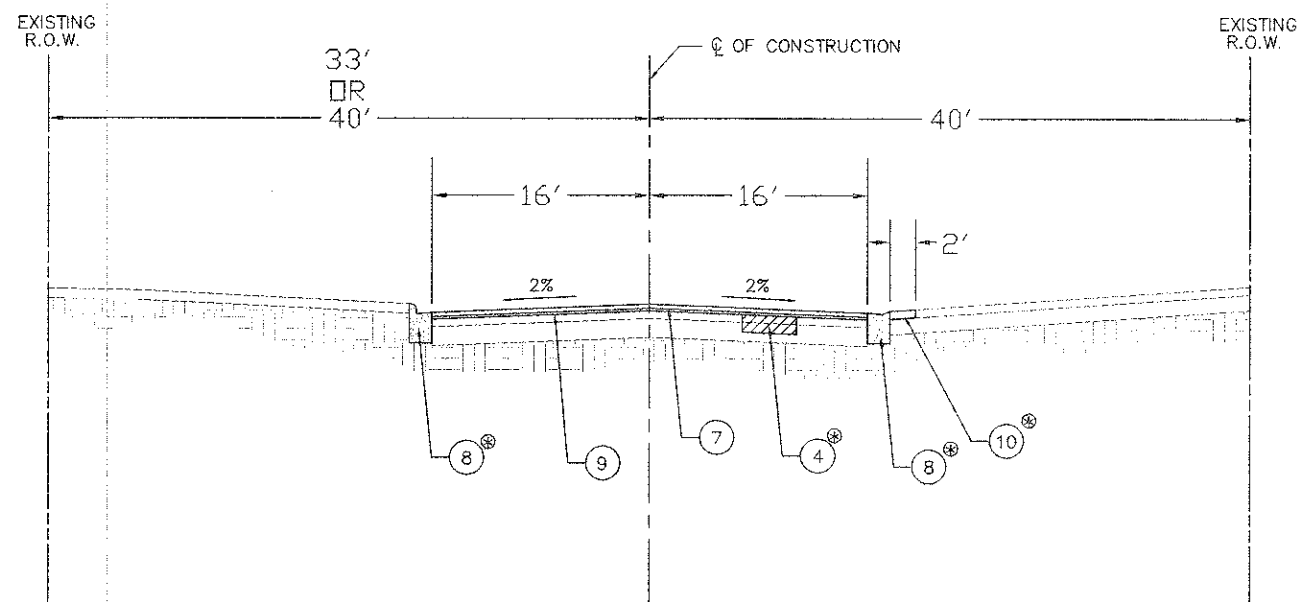
FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



**EXISTING TYPICAL SECTION**

CENTRAL PARK AVENUE STA. 0+64 TO STA. 27+15

⊗LIMITS SHOWN ON PLANS OR AS DERECTED BY ENGINEER.



**PROPOSED TYPICAL SECTION**

CENTRAL PARK AVENUE STA. 0+64 TO STA. 27+15

⊗LIMITS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER.

NOTE:  
THE EXISTING PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE REMOVED BEHIND THE CURB AND REPLACED WITH PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCHES AT STATIONS 1+30 AND 5+40. THE LIMITS SHALL BE AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

FILE NAME =	USER NAME =	DESIGNED - GGA	REVISED - 12/04/12
H:\12\12-025\PLANS\TYPICAL SECTION.dwg		DRAWN - BKL	REVISED - 01/10/13
	PLOT SCALE =	CHECKED - MAW	REVISED -
	FLOT DATE = 01/10/13 - 14:01 by Geoff	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CENTRAL PARK FROM 159TH ST. TO 163RD ST.  
LAFO  
TYPICAL CROSS SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1711	12-00043-00-RS	COOK	11	3
CONTRACT NO. 6379B				
FED. ROAD DIST. NO. 1 ILLINOIS   FED. AID PROJECT M-4003(122)				

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTORS USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE AND THEIR ENGINEER DO NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, SURFACE, OR OVERHEAD UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE VILLAGE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED IN THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE CITY, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- WHEN IN CONSTRUCTION OPERATION, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL STRUCTURES, ROAD SURFACES, CURB AND GUTTER, AND SIDEWALK SHALL BE CLEAN AT THE END OF CONSTRUCTION OPERATIONS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AND AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE CITY PUBLIC WORKS. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION. PRIOR TO USE OF WATER FOR CONSTRUCTION PURPOSES ASSOCIATED WITH THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE CITY. ALL COSTS ASSOCIATED WITH WATER USE SHALL BE INCIDENTAL TO THE CONTRACT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIAL.
- THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESSES SHOULD BE CONSIDERED THE MINIMUM (COMPACTED) THICKNESS PERMITTED.
- EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." STOP SIGNS, SPEED LIMIT SIGNS, AND STREET NAME SIGNS SHALL BE INCLUDED IN THE PAY ITEMS FOR TRAFFIC CONTROL AND PROTECTION.
- MAILBOXES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED, TEMPORARILY RELOCATED, AND REPLACED UPON COMPLETION OF THE PROPOSED IMPROVEMENTS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF INCH & FOOT
- 424001-07 CURB RAMPS FOR SIDEWALK
- 442201-03 CLASS C AND D PATCHES
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 606001-05 CONCRETE CURB TYPE B AND COMBINATIN CONCRETE CURB & GUTTER
- 701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
- 701801-05 LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUT FOR DETECTION LOOPS

**DISTRICT 1 DETAIL SHEETS**

- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- BD-32 BUTT JOINT AND HMA TAPER DETAILS
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

CURB & GUTTER REMOVAL AND REPLACEMENT SCHEDULE		
		Z0004562
		COMB C C&G
		REM & REPL
STA.	LOCATION	LENGTH (FT)
2+43	WEST	7
5+40	WEST	13
8+50	WEST	17
9+10	WEST	41
10+26	WEST	27
14+19	WEST	27
17+60	WEST	12
22+75	WEST	42
23+25	WEST	26
26+00	WEST	57
2+43	EAST	7
7+25	EAST	24
7+90	EAST	11
9+00	EAST	27
9+75	EAST	13
10+26	EAST	16
13+85	EAST	8
14+00	EAST	10
14+50	EAST	20
16+50	EAST	31
17+60	EAST	31
20+50	EAST	13
21+10	EAST	34
21+75	EAST	40
23+05	EAST	36
23+75	EAST	21
26+00	EAST	23
26+40	EAST	5
26+75	EAST	10

PATCHING						
		44201696	44201713	44201717	44201721	44201723
		CLASS D PATCHES	CLASS D PATCHES	CLASS D PATCHES	CLASS D PATCHES	CLASS D PATCHES
		TYPE IV, 4"	TYPE I, 6"	TYPE II, 6"	TYPE III, 6"	TYPE IV, 6"
STA.	LOCATION	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
1+00	SW RETURN					35
11+90	N.B. LANE			10		
14+00	N.B. LANE		3			
17+50	MIDDLE	81				
20+00	N.B. LANE	31				
21+25	N.B. LANE				16	
21+50	S.B. LANE					34
22+00	N.B. LANE					119
23+75	N.B. LANE				24	
25+00	S.B. LANE	48				
25+50	N.B. LANE	44				
26+25	MIDDLE					36
27+00	SW RETURN					83

DRIVEWAY SCHEDULE						
					44000200	Z0004510
		DRIVEWAY	DRIVEWAY	DRIVEWAY	DRIVEWAY PAVEMENT	HMA DRIVEWAY
STA.	LOCATION	WIDTH (FT)	LENGTH (FT)	AREA (SQ FT)	REMOVAL (SQ YD)	PAVEMENT (SQ YD)
13+85	EAST	8	2	16	2	2
14+00	EAST	10	2	20	3	3
23+80	EAST	12	2	24	3	3
26+00	EAST	23	2	46	5	5
26+00	WEST	57	2	114	13	13
26+40	EAST	5	2	10	1	1
26+70	EAST	10	2	20	2	2

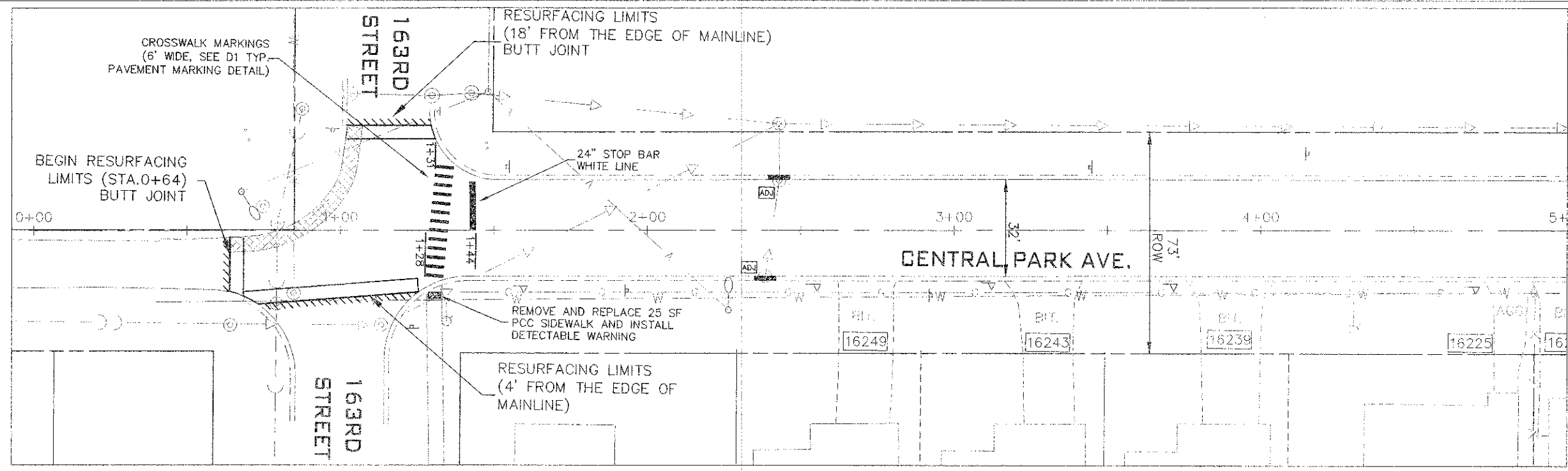
AGGREGATE SHOULDER SCHEDULE						
						48101200
		SHOULDER	SHOULDER	SHOULDER	SHOULDER	SHOULDERS, TY B
STA.	LOCATION	WIDTH (FT)	LENGTH (FT)	AREA (SQ FT)	AREA (SQ YD)	TON
1+00	SW RETURN	2	65	130	14	4

STRUCTURE ADJUSTMENT SCHEDULE		
		X0326862
		STRUCTURES TO BE ADJUSTED
STA.	LOCATION	(EACH)
2+43	E CURBLINE	1
2+43	W CURBLINE	1
7+25	SE RADIUS	1
7+90	NE RADIUS	1
8+50	W CURBLINE	1
10+26	E CURBLINE	1
10+26	W CURBLINE	1
10+80	SB LANE	1
13+85	SE RADIUS	1
14+05	SE RADIUS	1
14+19	W CURBLINE	1
14+50	NE RADIUS	1
17+60	E CURBLINE	1
17+60	W CURBLINE	1
20+49	E CURBLINE	1
22+75	SW RADIUS	1
23+05	E CURBLINE	1
23+25	NW RADIUS	1
		18*
		EA

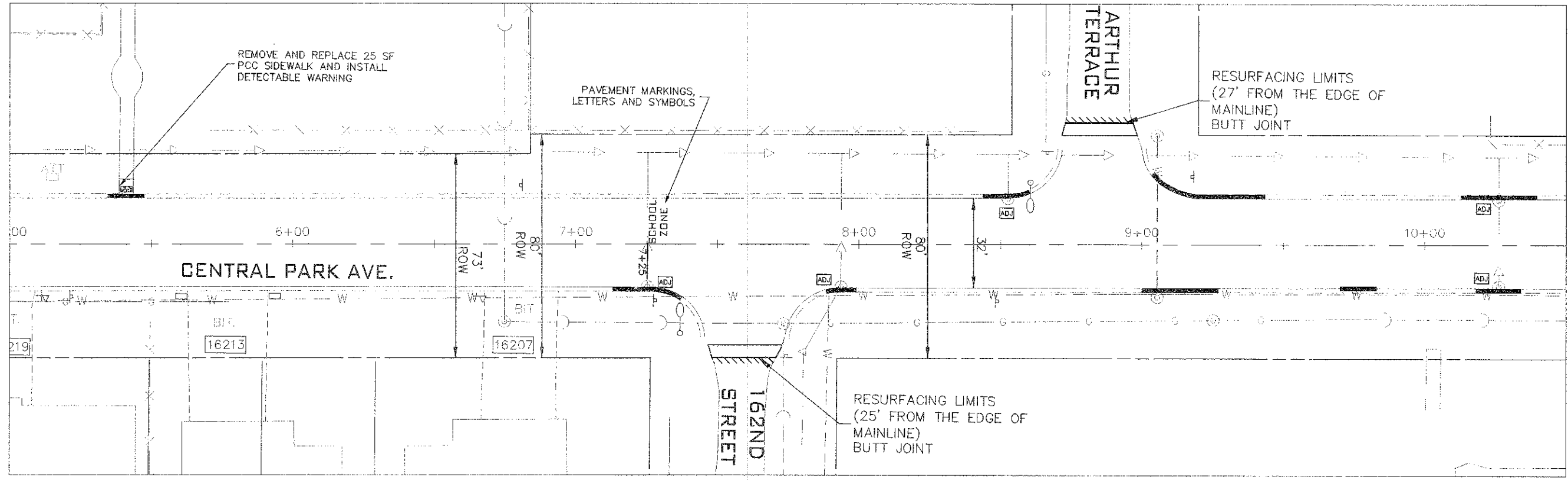
\* TWO (2) OF THESE ADJUSTMENTS ARE ACCOUNTED FOR AS RECONSTRUCTIONS SHOULD EXISTING CONDITIONS REQUIRE A RECONSTRUCTION INSTEAD OF AN ADJUSTMENT.

NOTE:

- ALL QUANTITIES SHOWN IN THE SCHEDULES ARE APPROXIMATE. THE ENGINEER WILL LOCATE ALL IMPROVEMENTS IN THE FIELD PRIOR TO CONSTRUCTION. PAYMENT SHALL BE BASED ON ACTUAL FIELD MEASUREMENTS.
- PATCHING AREAS SHALL BE MARKED OUT IN THE FIELD BY THE ENGINEER ONCE THE EXISTING HOT-MIX SURFACE COURSE IS REMOVED.



MATCHLINE 5+00



MATCHLINE 10+50



**LEGEND**

- BUTT JOINT
- DETECTABLE WARNING
- COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HMA PAVEMENT REPAIR
- HMA DRIVEWAY REMOVAL & REPLACEMENT
- ADJUSTMENT

NOTE: ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

NOTE: ACTUAL PATCHING AND REMOVAL & REPLACEMENT LIMITS SHALL BE MARKED OUT IN THE FIELD BY THE ENGINEER. THE TYPE, SIZE, AND LOCATION OF THESE ITEMS WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.

FILE NAME = H:\12\12-025\PLANS\PLAN.dwg	USER NAME =	DESIGNED - GGA	REVISED - 12/04/12
		DRAWN - BKL	REVISED - 01/10/13
		CHECKED - MAW	REVISED -
		DATE -	REVISED -
	PLOT SCALE =		
	PLOT DATE = 01/10/13 - 15:55 by Geoff		

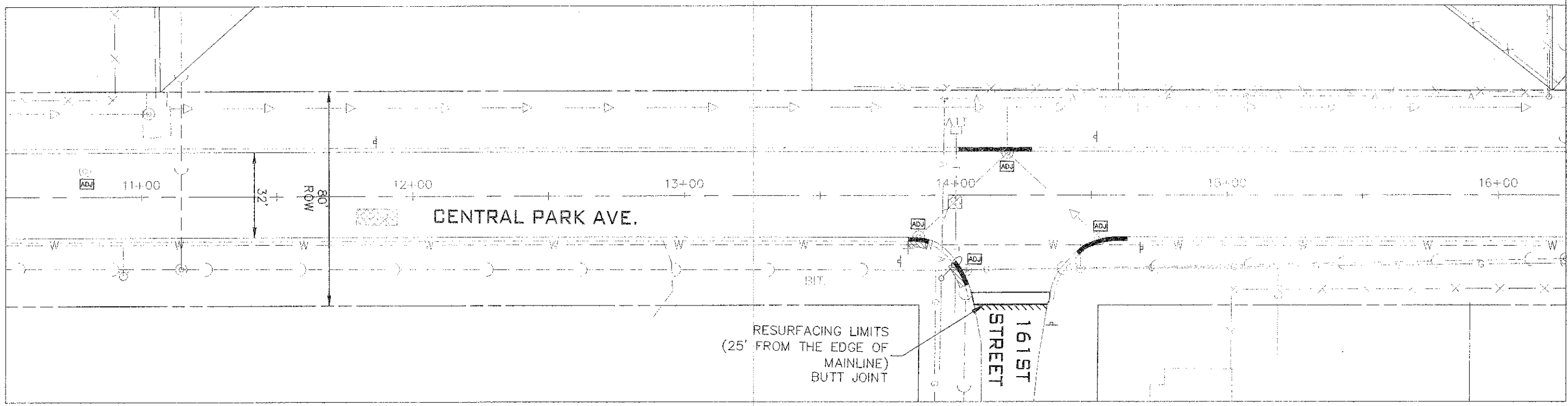
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CENTRAL PARK FROM 159TH ST. TO 163RD ST. LAFO</b>	
<b>RESURFACING/PAVEMENT MARKING PLAN</b>	
SCALE: 1"=20'	SHEET NO. 1 OF 3 SHEETS
STA. 0+64	TO STA. 10+50

F.A.U. RTE. 1711	SECTION 12-00043-00-RS	COUNTY COOK	TOTAL SHEETS 11	SHEET NO. 5
<b>CONTRACT NO. 63798</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT #4-4003(122)				

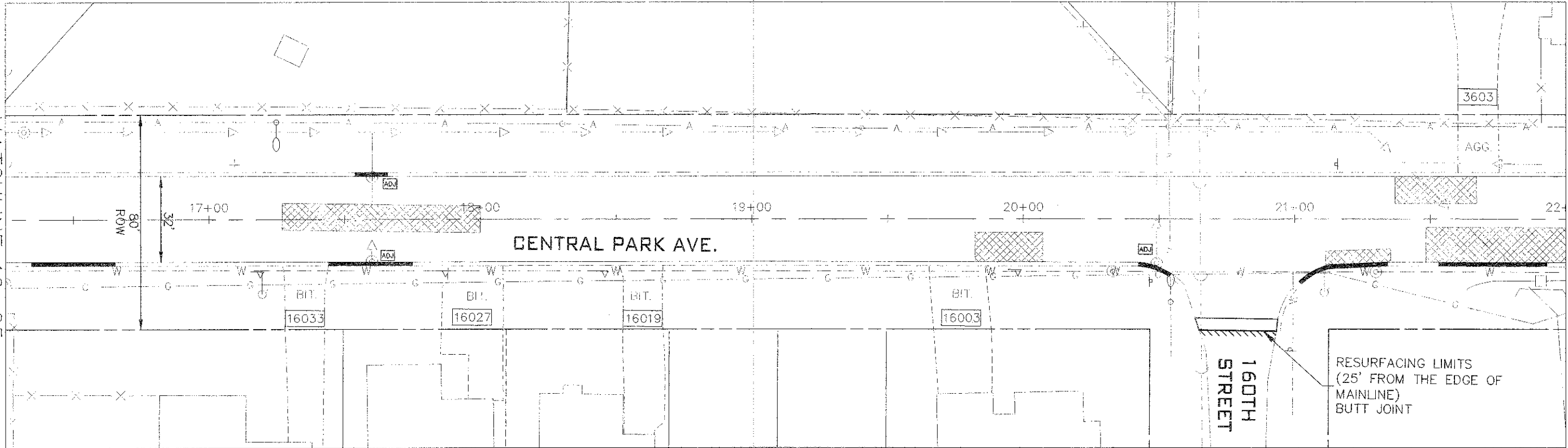
MATCHLINE 10+50

MATCHLINE 16+25



MATCHLINE 16+25

MATCHLINE 22+00



**LEGEND**

- BUTT JOINT
- DETECTABLE WARNING
- COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HMA PAVEMENT REPAIR
- HMA DRIVEWAY REMOVAL & REPLACEMENT
- ADJUSTMENT

NOTE: ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

NOTE: ACTUAL PATCHING AND REMOVAL & REPLACEMENT LIMITS SHALL BE MARKED OUT IN THE FIELD BY THE ENGINEER. THE TYPE, SIZE, AND LOCATION OF THESE ITEMS WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.

FILE NAME = H:\12\12-025\PLANS\PLAN.dwg

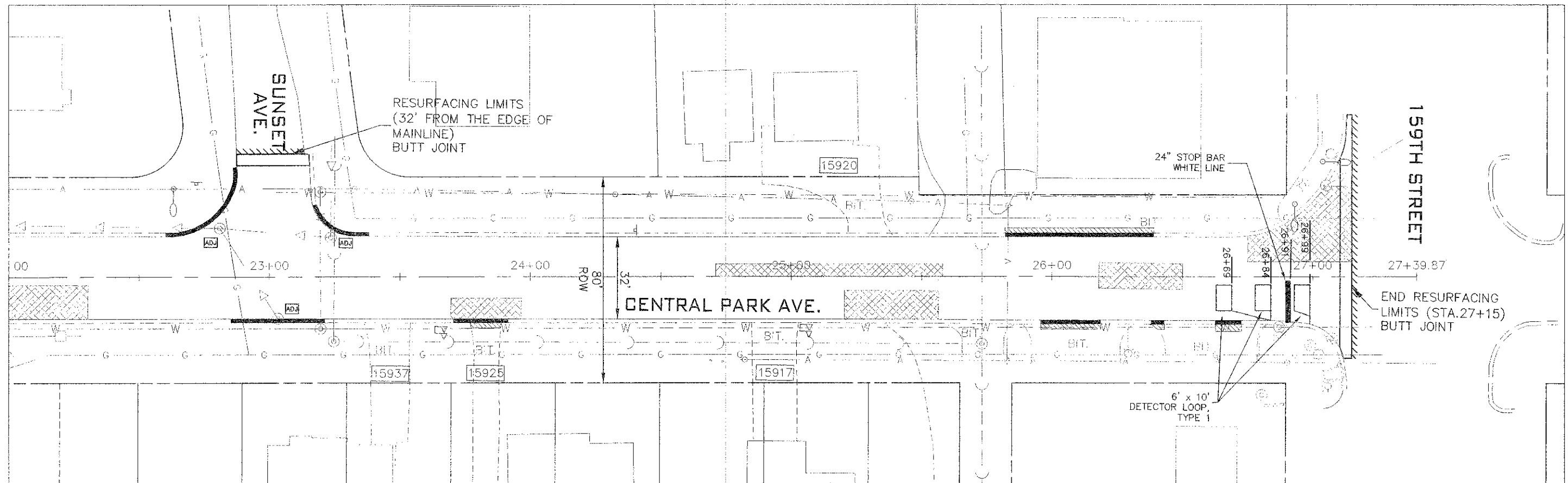
USER NAME =	DESIGNED -- GGA	REVISED -- 12/04/12
	DRAWN -- B-L	REVISED -- 01/10/13
PLOT SCALE =	CHECKED -- MAW	REVISED --
PLOT DATE = 01/10/13 - 15:55 by Geoff	DATE --	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

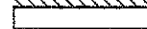
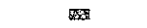


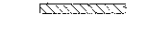
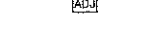
CENTRAL PARK FROM 159TH ST. TO 163RD ST.  
LAFO  
RESURFACING/PAVEMENT MARKING PLAN  
SCALE: 1"=20'  
SHEET NO. 2 OF 3 SHEETS STA. 10+50 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1711	12-00043-00-RS	COOK	11	6
CONTRACT NO. 63798				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-4303('22)	

MATCHLINE 22+00



**LEGEND**

-  BUTT JOINT
-  DETECTABLE WARNING
-  COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
-  HMA PAVEMENT REPAIR
-  HMA DRIVEWAY REMOVAL & REPLACEMENT
-  ADJUSTMENT



NOTE: ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

NOTE: ACTUAL PATCHING AND REMOVAL & REPLACEMENT LIMITS SHALL BE MARKED OUT IN THE FIELD BY THE ENGINEER. THE TYPE, SIZE, AND LOCATION OF THESE ITEMS WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.

FILE NAME = H:\12\12-025\PLANS\PLAN.dwg	USER NAME =	DESIGNED -- CGA	REVISED -- 12/04/12
		DRAWN -- BKL	REVISED -- 01/10/13
		CHECKED -- MAW	REVISED --
		DATE --	REVISED --
	PLOT SCALE =		
	PLOT DATE = 01/10/13 - 15:55 by Geoff		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CENTRAL PARK FROM 159TH ST. TO 163RD ST.  
LAFO  
RESURFACING/PAVEMENT MARKING PLAN**

SCALE: 1"=20'    SHEET NO. 3 OF 3 SHEETS    STA. 22+00 TO STA. 27+15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1711	12-00043-C0-RS	COOK	11	7
<b>CONTRACT NO. 63798</b>				
FED. ROAD DIST. NO. 1    ILLINOIS    FED. AID PROJECT M-4003(122)				

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

PROP. CONC. CURB OR CURB AND CUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD SPEC. ITEM (3)

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

SEE STATE STANDARD 605001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \* \*

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOG OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SOGGING SALT TOLERANT WITH TOP SOIL, 4" (100) SOG RESTORATION CWT ITEM (3)

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLY BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT)

PROPOSED 1/4" (20) PERFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT)

\* 1" (25) 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.

SOGGING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

(2) FERTILIZER FOR THE PLACEMENT OF THE SOG IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND CUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

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

(6) 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.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND CUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 608 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND CUTTER 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 #5 (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 UNAVAILABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE (3)).

**BASIS OF PAYMENT:**

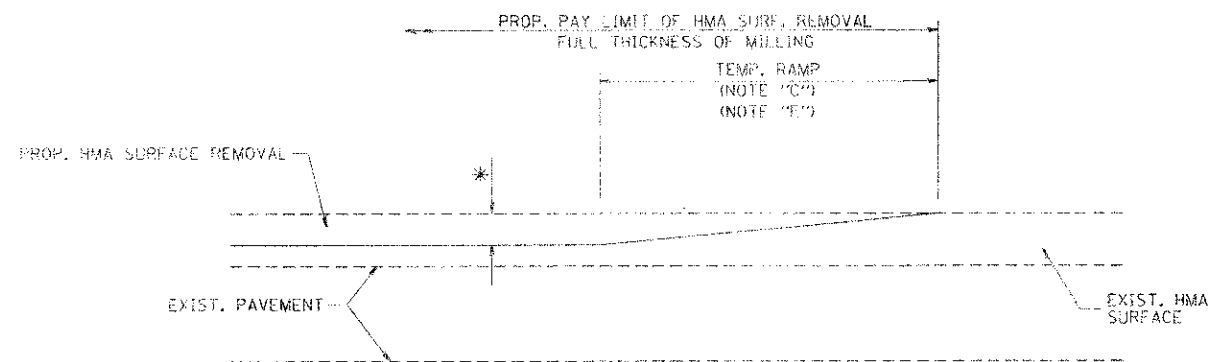
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

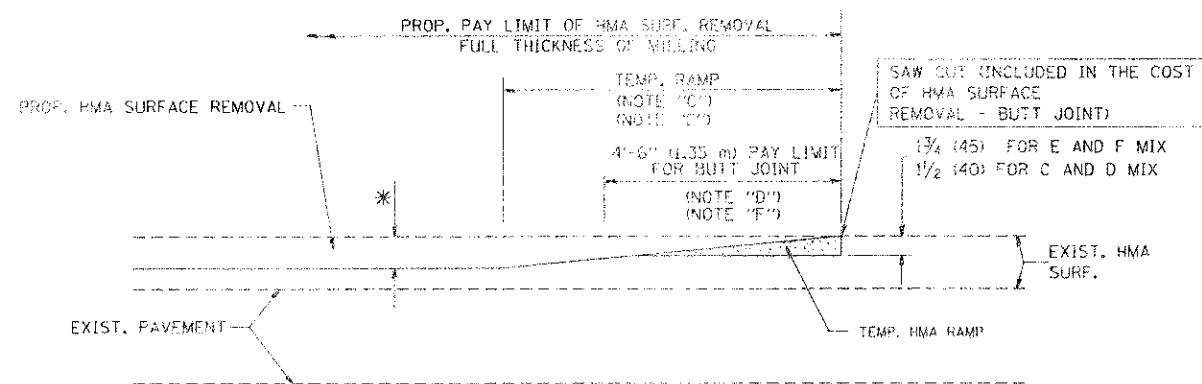
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				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		80600-06 (80-24)		ILLINOIS HIGHWAY AND PROJECT M-4003(122)		





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

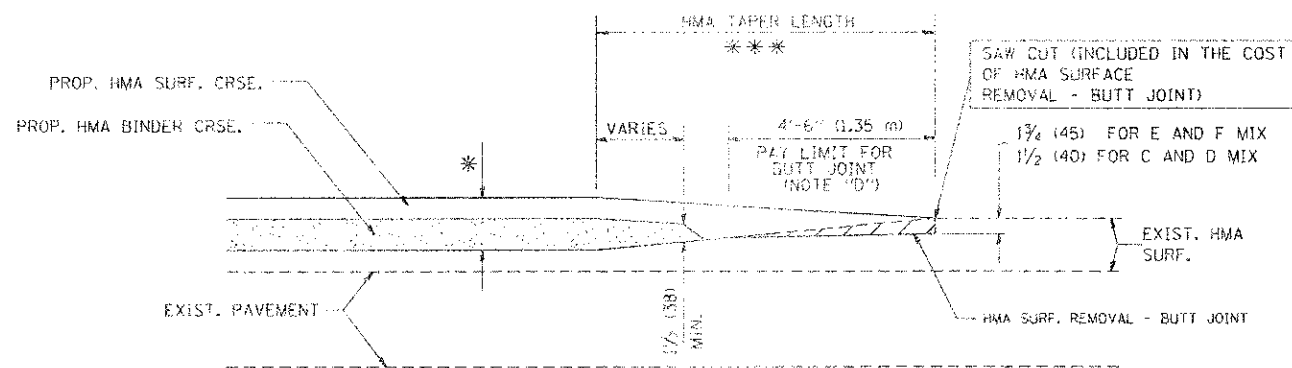
OPTION 1



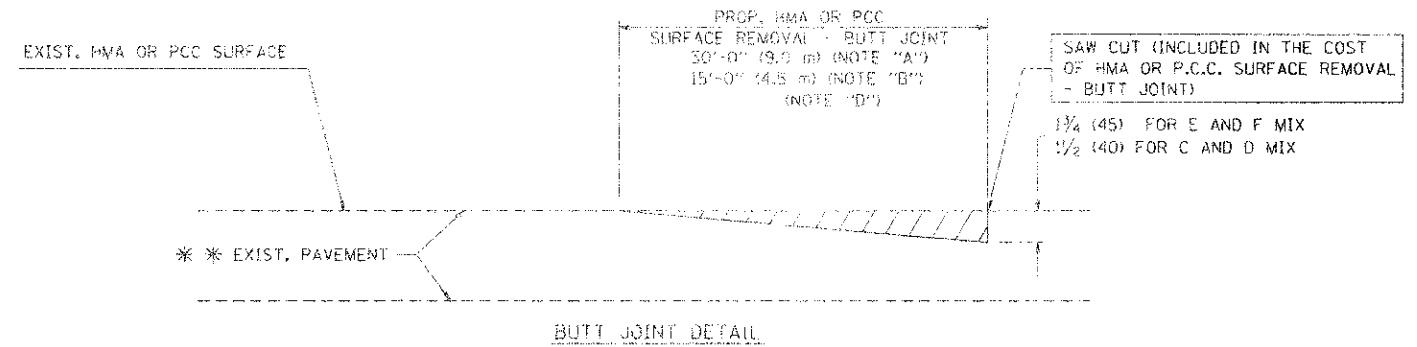
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

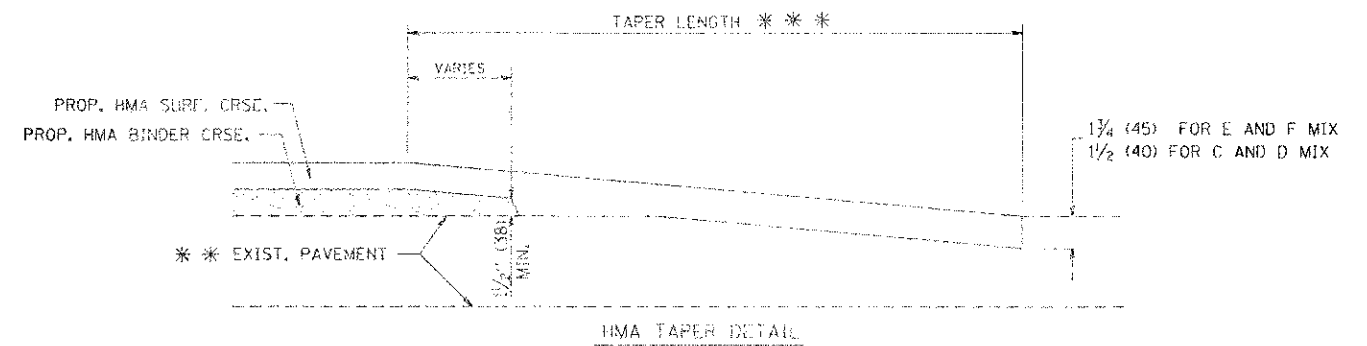
TYPICAL TEMPORARY RAMP



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.

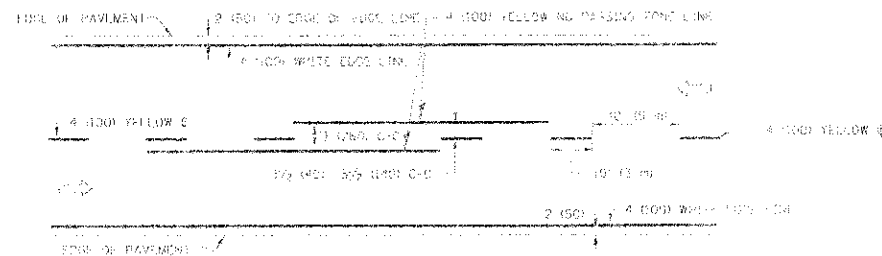
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

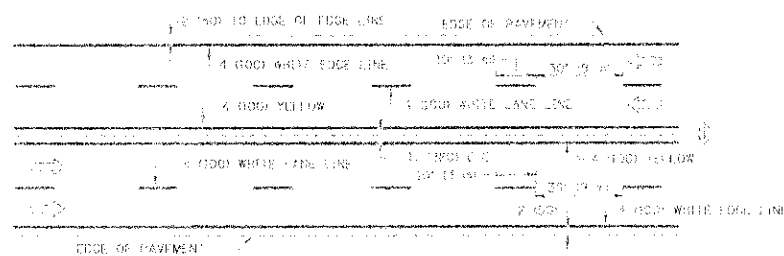
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

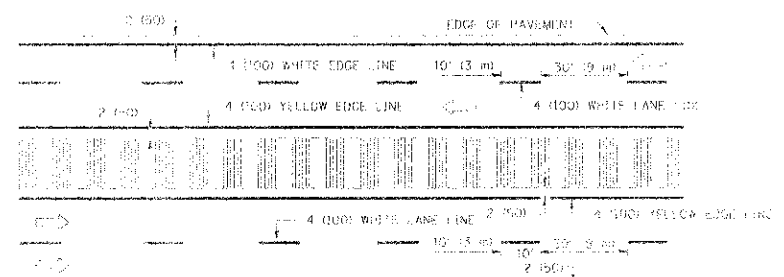
FILE NAME: 20190113-072-1A.dwg	USER NAME: gmg1ncmbk	DESIGNED: M. DE YONG	REVISED: R. SHAH 10-26-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINT AND HMA TAPER DETAILS</b>	F.A. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
	PLOT SCALE: 50.0000 1/4 IN.	DRAWN:	REVISED: A. ABRAS 02-21-97			1711	12-00043-00-RS	COOK	11	9
	PLOT DATE: 1/4/2000	CHECKED:	REVISED: M. GOMEZ 04-06-01			<b>BD000-05 BD32</b>		<b>CONTRACT NO. 63798</b>		
		DATE: 06-13-90	REVISED: R. BORO 01-01-07			SCALE: NONE SHEET NO. 1 OF 1 SHEETS ETC. TO STA.		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-4003(122)		



2-LANE ROADWAY



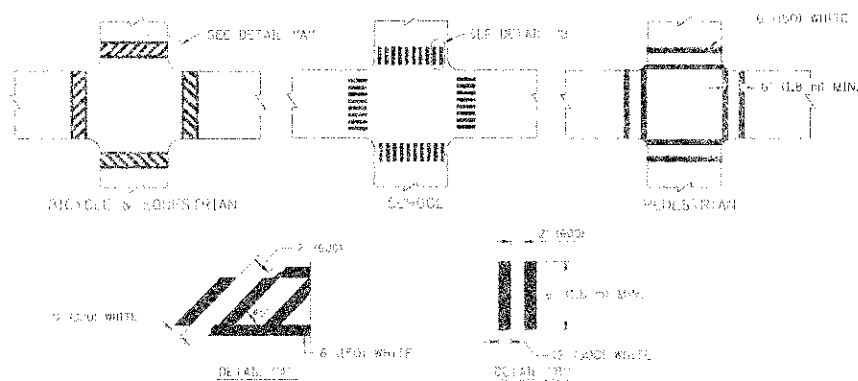
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN



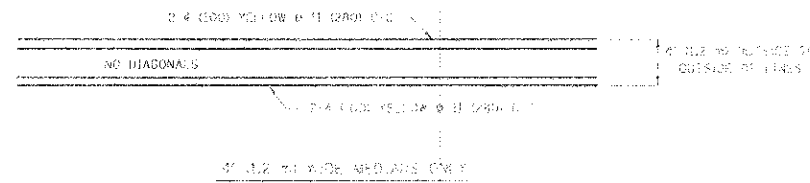
MULTI-LANE DIVIDED WITH BARRIER CURB

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

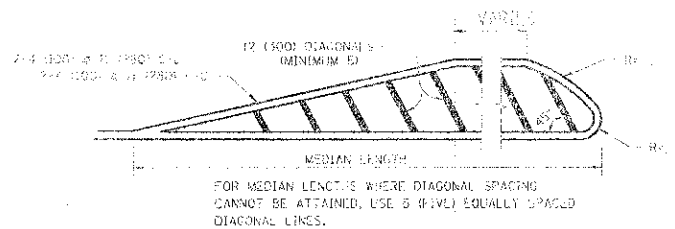
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



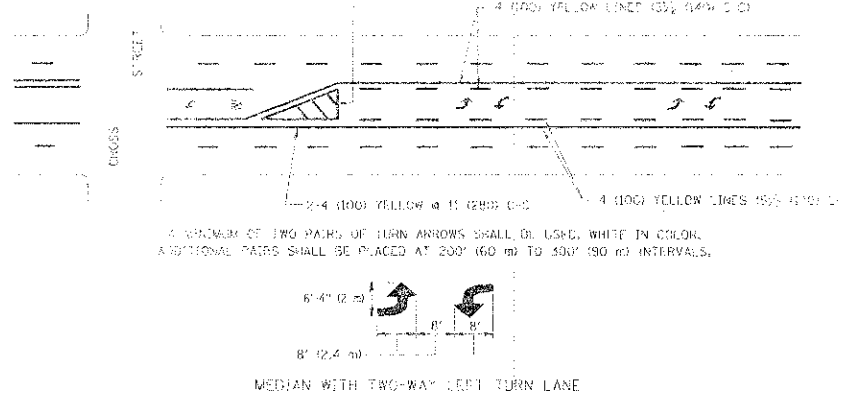
12' (3.7) M WIDE MEDIANS (MIN)



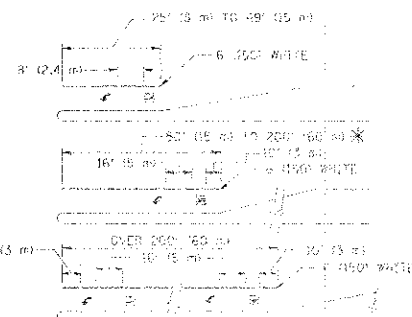
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 8 (2.4) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15.2) M O.C. (LESS THAN 30MPH (50 km/h))  
 75' (22.8) M O.C. (30MPH (50 km/h) TO 45MPH (70 km/h))  
 150' (45.7) M O.C. (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2) M WIDE



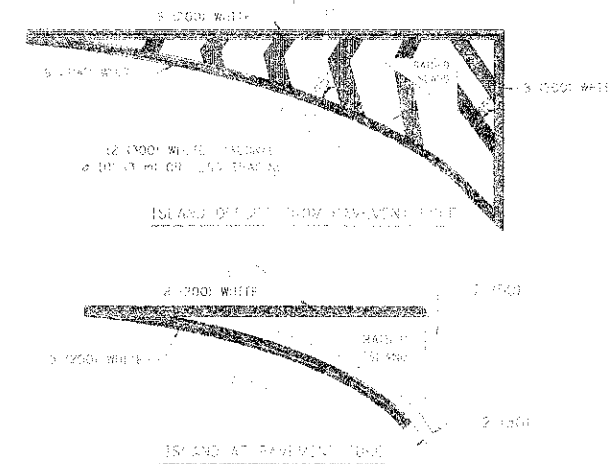
TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE MARKING

NOTE: TURN LINES IN EXCESS OF 400' (122 M) LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING

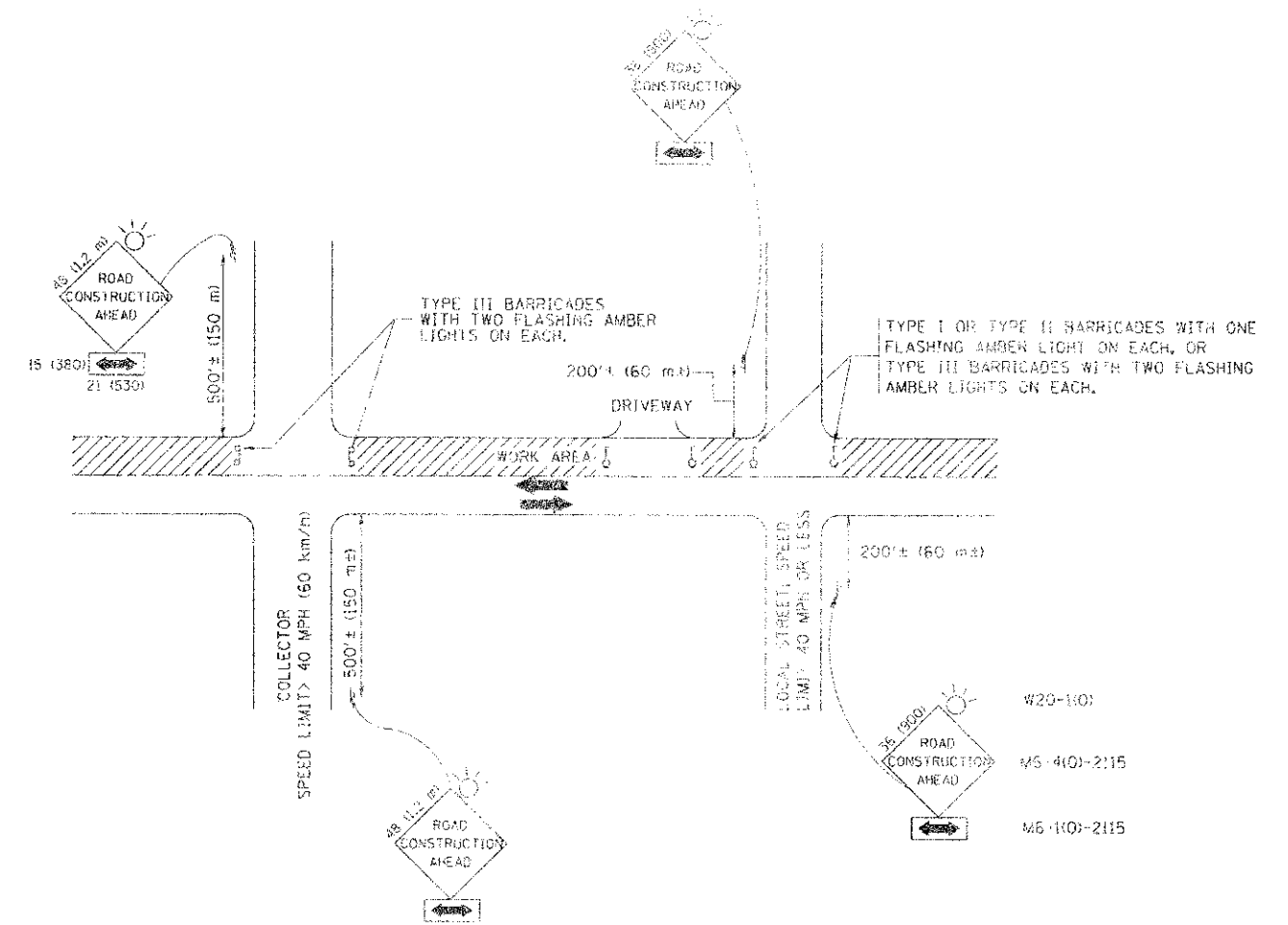


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH / SPACING	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2-LANE PAVEMENT	4 (1.2)	SKIP-DASH	YELLOW	10' (3.0) MIN. WITH 30' (9.1) SPACE
CENTERLINE ON MULTI-LANE DIVIDED PAVEMENT	2 @ 4 (0.6)	SOLID	YELLOW	10' (3.0) MIN.
NO-PASSING ZONE LINES FOR ONE DIRECTION FOR 50-60 MPH LIMITATIONS	4 (1.2) @ 4 (1.2)	SOLID / SKIP-DASH	YELLOW / WHITE	10' (3.0) MIN. FROM SKIP-DASH CENTERLINE
LANE LINES	4 (1.2) @ 10' (3.0) ON FREEWAYS	SKIP-DASH	WHITE	3' (0.9) MIN. WITH 30' (9.1) SPACE
PAINTED LANE EXTENSIONS OF CENTER LANE ON FREEWAY MARKINGS	4 (1.2)	SKIP-DASH	WHITE	2' (0.6) MIN. WITH 10' (3.0) SPACE
STOP LINES	4 (1.2)	SOLID	WHITE	SEE TYPICAL STOP LINE MARKING DETAIL
TURN LANE MARKINGS	6 (1.8) @ 10' (3.0) WITH 10' (3.0) TURN ARROWS	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO-WAY LEFT-TURN MARKING	2 @ 4 (0.6) EACH DIRECTION	SKIP-DASH	YELLOW	10' (3.0) MIN. WITH 30' (9.1) SPACE FOR SKIP-DASH
CROSSWALK LINES (PEDESTRIAN)	2 @ 4 (1.2) WITH 12 (3.6) @ 40"	SOLID	WHITE	NOT LESS THAN 5' (1.5) MIN. FROM CURB
CROSSWALK LINES (BICYCLE & PEDESTRIAN)	2 @ 4 (1.2) WITH 12 (3.6) @ 40"	SOLID	WHITE	SEE TYPICAL CROSSWALK MARKING DETAIL
STOP LINES	24 (7.3)	SOLID	WHITE	PLACE 2' (0.6) MIN. AHEAD OF CURB
PAINTED MEDIANS	2 @ 4 (1.2) WITH 12 (3.6) @ 40"	SOLID	YELLOW	SEE TYPICAL PAINTED MEDIAN MARKING
CORNER MARKING AND CHANNELIZING LINES	8 (2.4) WITH 12 (3.6) @ 40"	SOLID	WHITE	DIAGONALS: 15' (4.5) M O.C. (LESS THAN 30MPH (50 km/h)) 20' (6.1) M O.C. (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9.1) M O.C. (OVER 45MPH (70 km/h))
RAILROAD CROSSING	2 @ 4 (1.2) TRANSVERSE	SOLID	WHITE	SEE STATE STANDARD T89001
SHOULDER DIAGONALS	15' (4.5) @ 45"	SOLID	WHITE / YELLOW	RIGHT / LEFT

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STATUTE 625/10-1.

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



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 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.
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.

USER NAME: jgastromohs PLOT SCALE: 50:000 1" IN. PLOT DATE: 1/4/2008	DESIGNED: LHA DRAWN:	REVISED: J. OBERLE 10-18-95 REVISED: A. HOUSEH 03-06-96	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION FOR</b> <b>SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>		P.A. RTE.: 1711 SECTION: 12-00043-00-RS COUNTY: COOK TOTAL SHEETS: 11 SHEET NO.: 11
	CHECKED:	REVISED: A. HOUSEH 10-15-96 REVISED: T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS 1 STA. TO STA.	CONTRACT NO. 63798 ILLINOIS FED. AID PROJECT M-4003(122)	