STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

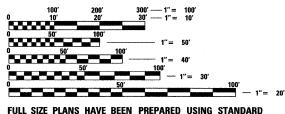
F.A.P. 330 (US 12 /45) SECTION 465 X-RS-1 WALNUT AVE TO US 12 (RAND RD) **RESURFACING (3P)** PROJECT: ESP-0330(055) **COOK COUNTY** C-91-054-09

THIS IMPROVEMENT IS LOCATED WITHIN THE CITY OF DES PLAINES

TRAFFIC DATA

2005 ADT - 21,300 POSTED SPEED LIMIT - 30 MPH

FOR INDEX OF SHEETS, SEE SHEET NO. 2



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

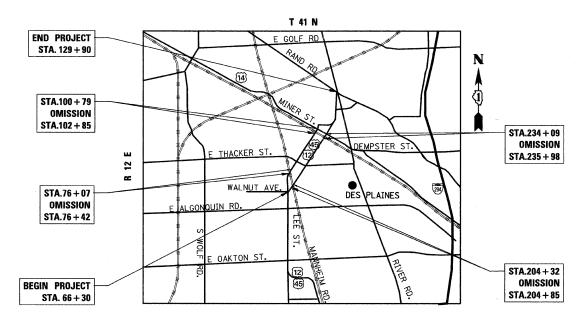
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

Ciorba Group, Inc.

DESIGN FIRM REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS SUITE 402, 5507 NORTH CUMBERLAND AVE



MAINE TOWNSHIP LOCATION MAP 1" = 2000'

GROSS LENGTH OF PROJECT = 6,360 FT = 1.20 MI NET LENGTH OF PROJECT = 6,119 FT = 1.16 MI.



SECTION 465 X-RS-1 COOK 19 1 FED. ROAD DIST. NO. 1 ILLINOIS CONTRACT NO. 60F23

D-91-054-09



DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60F23

(847)705-4247

INDEX OF SHEETS

SHEET NO	DESCRIPTION	STATE	STANDARDS
1	COVER SHEET	000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	442201- <i>03</i>	CLASS C AND D PATCHES
3	SUMMARY OF QUANTITIES		
4	TYPICAL SECTIONS	604001- <i>03</i>	FRAME AND LIDS, TYPE 1
5-8	PROPOSED ROADWAY AND PAVEMENT MARKING PLAN	606001- <i>04</i>	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
9	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)	701301 - <i>03</i>	LANE CLOSURE, 2L. 2W. SHORT TIME OPERATION
10	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	101301	
11	CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701311 - 03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
12	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701601 - <i>01</i>	URBAN LANE CLOSURE, MULTI LANE, 1W OR 2W WITH NONTRAVERSABLE MEDIA
13	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,	701606- <i>06</i>	URBAN LANE CLOSURE, MULTI LANE, 2W. MOUNTABLE MEDIAN
	INTERSECTIONS, AND DRIVEWAYS (TC-10)	101606 20	ORBAN LANE CLOSURE, MULTI LANE, 24, MOUNTABLE MEDIAN
14	TYPICAL APPLICATIONS RAISED REFLECTIVE	701701 - <i>06</i>	URBAN LANE CLOSURE, MULTI LANE INTERSECTION
	PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	701801 - 04	LANE CLOSURE MULTILANE 1W, 2W, CROSSWALK OR SIDEWALK CLOSURE
15	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701001 01	TRAFFIA CONTROL PRUIDEC
16	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	701901 -0 /	TRAFFIC CONTROL DEVICES
17	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	780001 - <i>02</i>	TYPICAL PAVEMENT MARKINGS
18	ARTERIAL ROAD INFORMATION SIGN (TC-22)	886001 - <i>01</i>	DETECTOR LOOP INSTALLATIONS
19	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR		
	ROADWAY RESURFACING (TS-07)	886006 <i>-01</i>	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 2. 10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.
- 6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 7. THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)

0.004 TONS/SQ YD

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE

MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.

112 LBS/SQ YD/INCH

POLYMERIZED LEVELING BINDER (MACHINE METHOD)

105 LBS/SQ YD/INCH

- 9. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE ENGINEER SHALL

8. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISORS AT (847) 705-4470 A

- CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (773) 685-8386.
- 10. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2" (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1" (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 3:1 (H:V).
- 11. BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 12. FOR PAVEMENT MARKING, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS SHOWN.
- 13. MATCH EXISTING PAVEMENT MARKINGS AT PROJECT AND OMISSION LIMITS.
- 14. A QUANTITY FOR LEVELING BINDER (HAND METHOD) HAS BEEN PROVIDED FOR USE AROUND HAND HOLES, PRIVATE UTILITY STRUCTURE FRAMES AND ANY OTHER STRUCTURE FRAMES THAT

ARE NOT ABLE TO BE LOWERED UNDER THE ITEM "FRAMES AND LIDS TO BE ADJUSED (SPECIAL)" AFTER GRINDING OF THE EXISITING PAVEMENT.

ر ا	Ciorba Group, Inc.	U
بت	5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	P

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

US 12 /45							
V	VALNUT A	AVE TO	o us '	12 (RA	ND RD)		
					GENERAL NOTES		
	SHEET NO.	OF	SHEETS	STA.	TO STA.		

		DIST.		1	ILLINOIS	FED.	AID	PROJEC	T				_
							(CONTR	RACT	NO.	60)F23	_
330			465	×	-RS-1			COC)K	19		2	
F.A.P. SECTION			COUN	NTY	SHEE	AL TS	SHEE NO.	Ι.Τ					

2 ED3/30 10/1

		SUMMARY OF QUANTITIES	URBAN 1004. FEO. TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
	CODE NO.	DESCRIPTION	UNIT		ROADWAY IOOO-2A
Γ	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	25	25
Γ	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	34	34
	40600300	AGGREGATE (PRIME COAT)	TON	180	180
Γ	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	44	44
	40600535	LEVELING BINDER (HAND METHOD), N70	TON	40	40
Γ	40600895	CONSTRUCTING TEST STRIP	EACH	2	2
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	3,410	3,410
Г	40600990	TEMPORARY RAMP	SQ YD	5,300	5,300
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3,700	3,700
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	20	20
	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	560	560
Г	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	42,400	42,400
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	20	20
	44000600	SIDEWALK REMOVAL	SQ FT	560	560
	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	550	550
	44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	310	310
	44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	240	240
	44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	630	630
2	55039700	STORM SEWERS TO BE CLEANED	FOOT	1,700	1,700
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	6	6
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5	5
	60262700	INLETS TO BE RECONSTRUCTED	EACH	5	5
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	190	190
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	67100100	MOBILIZATION	L SUM	1	1
Γ	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
-					

		SUMMARY OF QUANTITIES		URBAN 1001.FED. TOTAL QUANTITY	CONSTRUCTION TYPE CODE
	CODE NO.	DESCRIPTION	UNIT		ROADWAY IOOO-2A
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	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	3,350	3,350
*	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,400	2,400
*	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	39,300	39,300
*	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6,300	6,300
*	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	F00T	4,430	4,430
*	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	7,650	7,650
*	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	2,310	2,310
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	11,300	11,300
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	800	800
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13,100	13,100
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,100	2,100
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,475	1,475
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,550	2,550
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	770	770
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	450	450
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	430	430
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1,100	1,100
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	154	154
	X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	2,300	2,300
,	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	190	190
	Z0024478	FLEXIBLE DELINEATORS	EACH	7	7
T	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
0	2007660	TRAINEES	HOUR	500	500

• DENOTES SPECIALTY ITEM NP= Non-participating

Ø 1080

	Ciorba Group, II	nc.	
	CONSULTING ENGINEERS		L
	5507 North Cumberland Avenue, Suit Chicago, Illinois 60656		L
•	 Tel. 773.775.4009 Fax 773.775	.4014	L

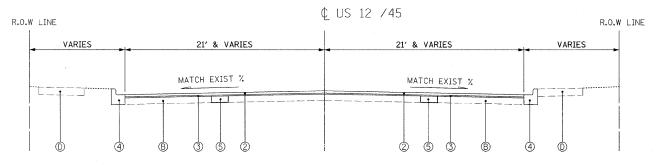
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

US 12 /45	F.A.P. SEC	CTION COUNTY	TOTAL	SHEET NO.
VALNUT AVE TO US 12 (RAND RD)	330 465	X-RS-1 COOK	19	3
SUMMARY OF QUANTITIES		CONTRAC	T NO. 6	0F23
SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		-

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

EXISTING CONDITIONS:

- A HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 5" AND VARIES
- ® PORTLAND CEMENT CONCRETE BASE COURSE, 10"
- © COMBINATION CONCRETE CURB AND GUTTER
- D PORTLAND CEMENT CONCRETE SIDEWALK

PROPOSED IMPROVEMENTS:

- ① HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- ② HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- 3 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY ENGINEER)
- (5) CLASS D PATCHES, 13" (DETERMINED BY ENGINEER IN FIELD)
- * THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART

OPERATIONS MIXTURE TYPE		AC TYPE	PERCENT	
	HOT-MIX ASPHALT SURFACE	PG 64-22	AIR VOIDS	
	COURSE, MIX "D", N70 (IL-9.5MM)	10 04 22		
ROADWAY AND BRIDGE APPROACH RESURFACING	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR	
	LEVELING BINDER (HAND METHOD), N70 (IL-9.5MM)	PG 64-22 *	4% @ 70 GYR	
PAVEMENT PATCHING	CLASS D PATCHES, 13" (HMA BINDER IL-19 MM)	PG 64-22 *	4% @ 70 GYR	

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

 $\boldsymbol{\ast}$ WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

SCALE:

	Ciorba Gi	roup. Inc.	1
	CONSULTING ENGIN 5507 North Cumberlar Chicago, Illinois 6065	IEERS nd Avenue, Suite 402 6	-
	Tel. 773.775.4009	Fax 773.775.4014	L
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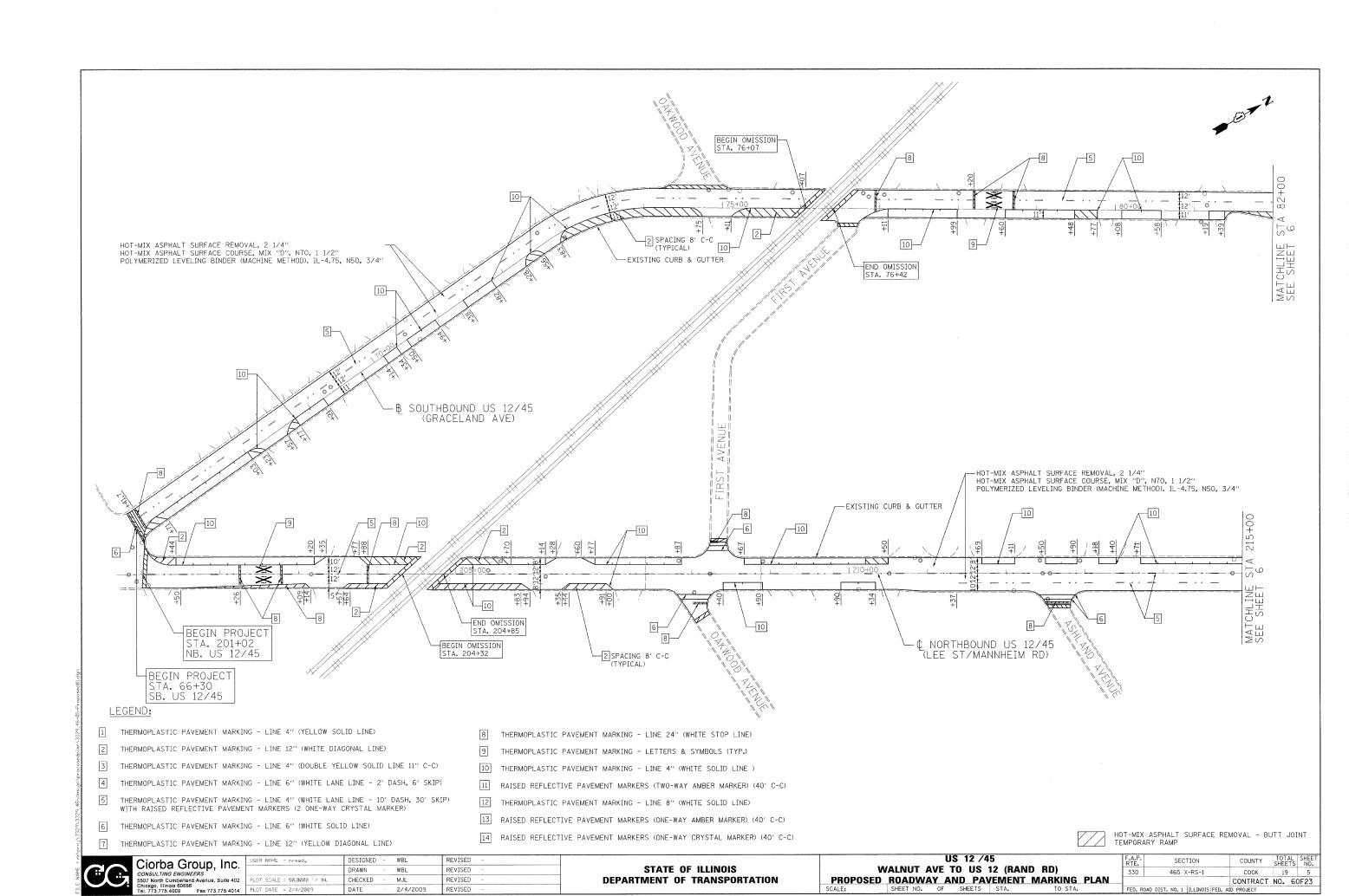
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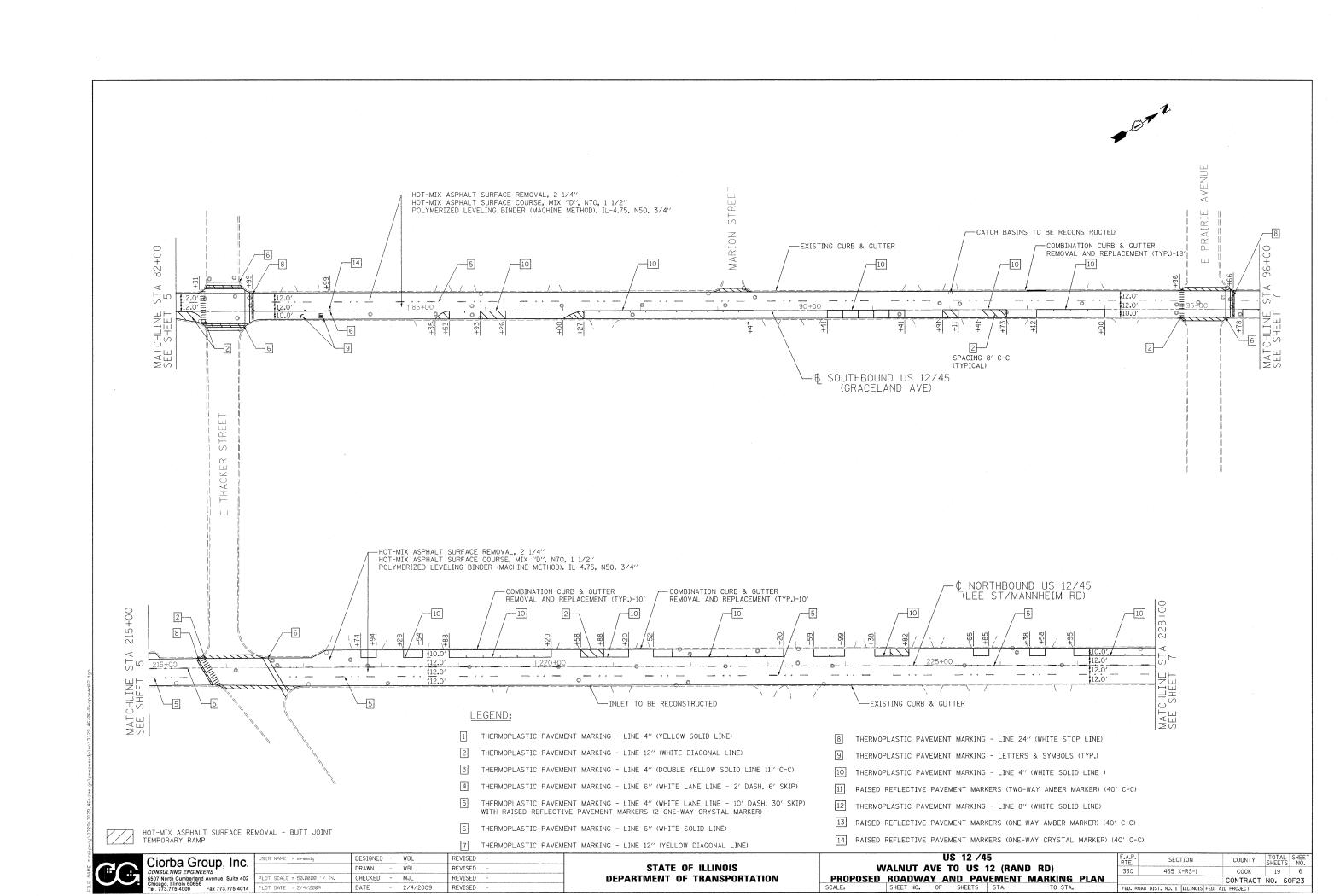
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W	WALNUT AVE TO US 12 (RAND RD) TYPICAL SECTIONS						465 X-RS-1
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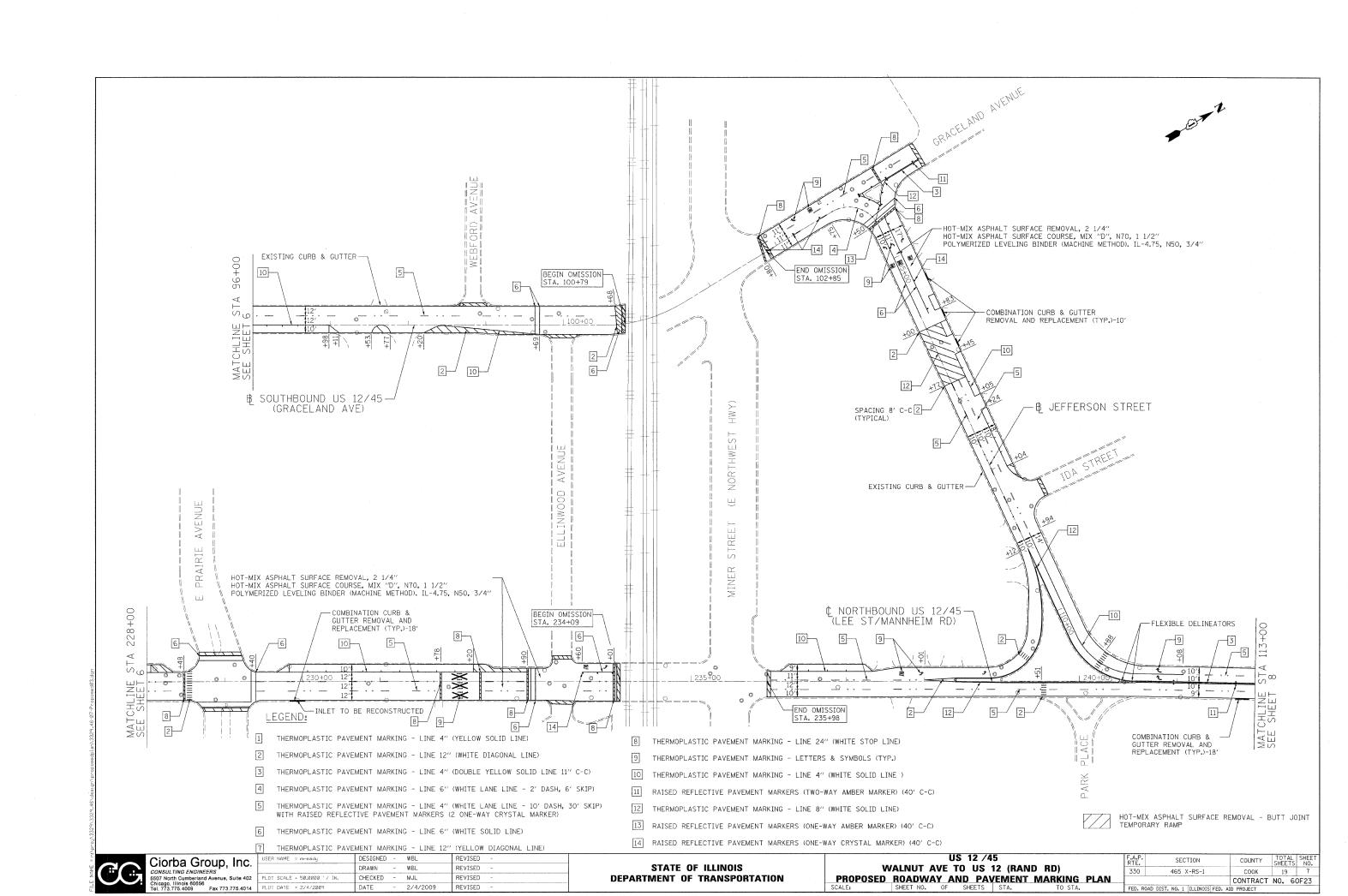
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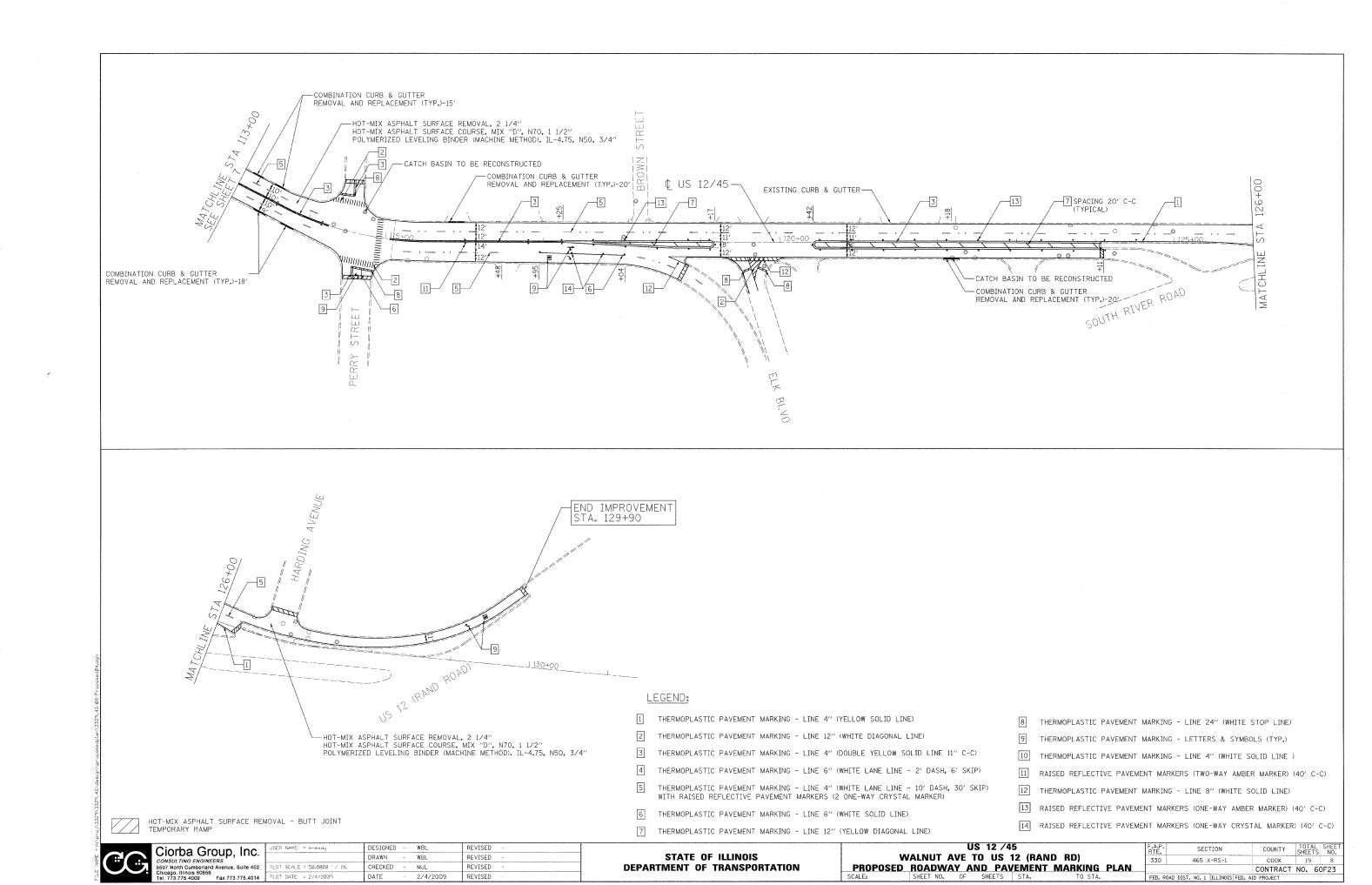
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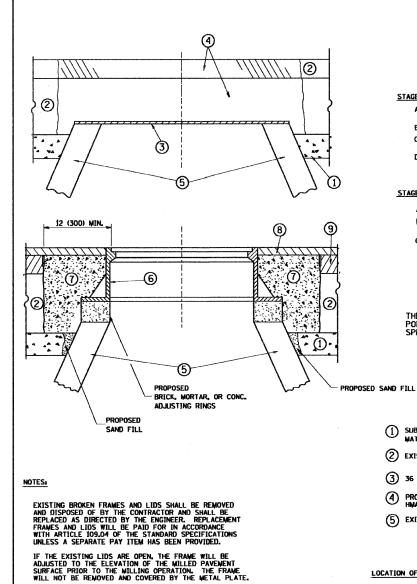
CONTRACT NO. 60F23











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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HIMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

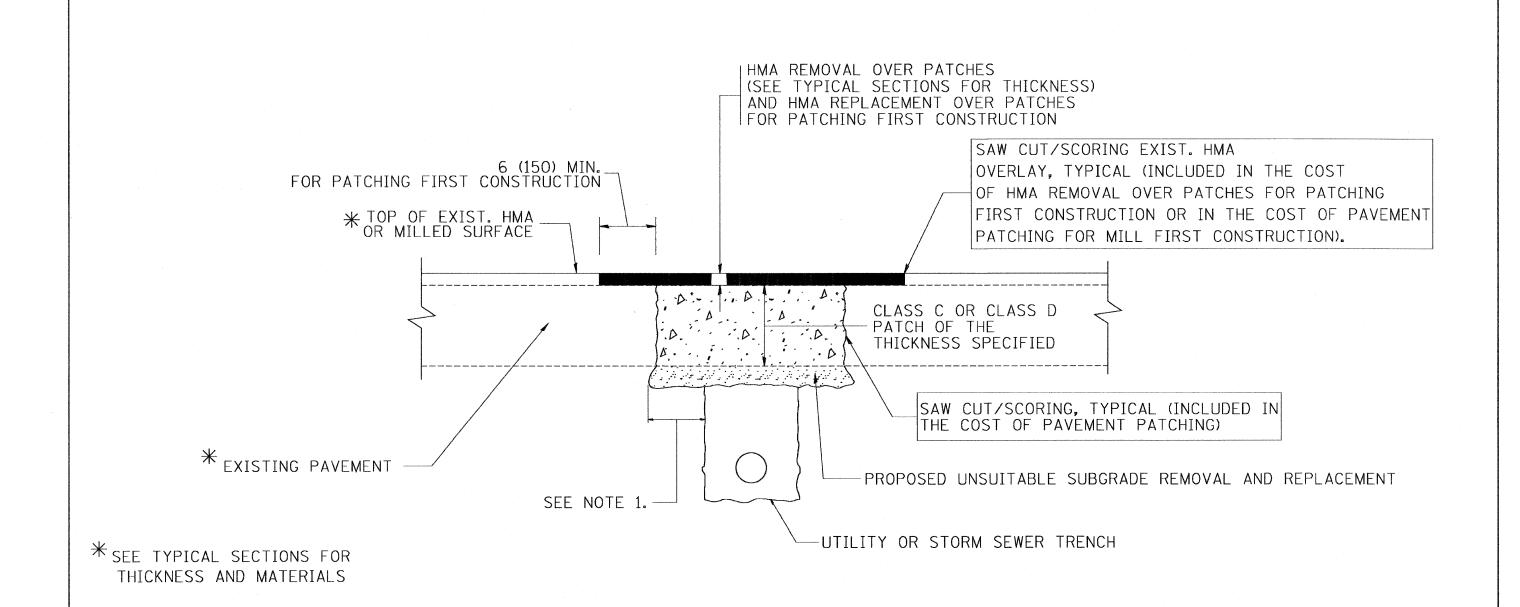
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

> COUNTY COOK

CONTRACT NO. 60F23

	FILE NAME =	USER NAME = gaglianobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95		DETAILS FOR	F	RTE. SEC	ECTION
	₩:\d:ststd\22x34\bdØ8.dgn		DRAWN -	REVISED ~ A. ABBAS 03-21-97	STATE OF ILLINOIS		-		X-RS-1
- 1		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS ADJUSTMENT WITH MILLING		BD600-03	(BD-8)
		PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	1 ILLINOIS



NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

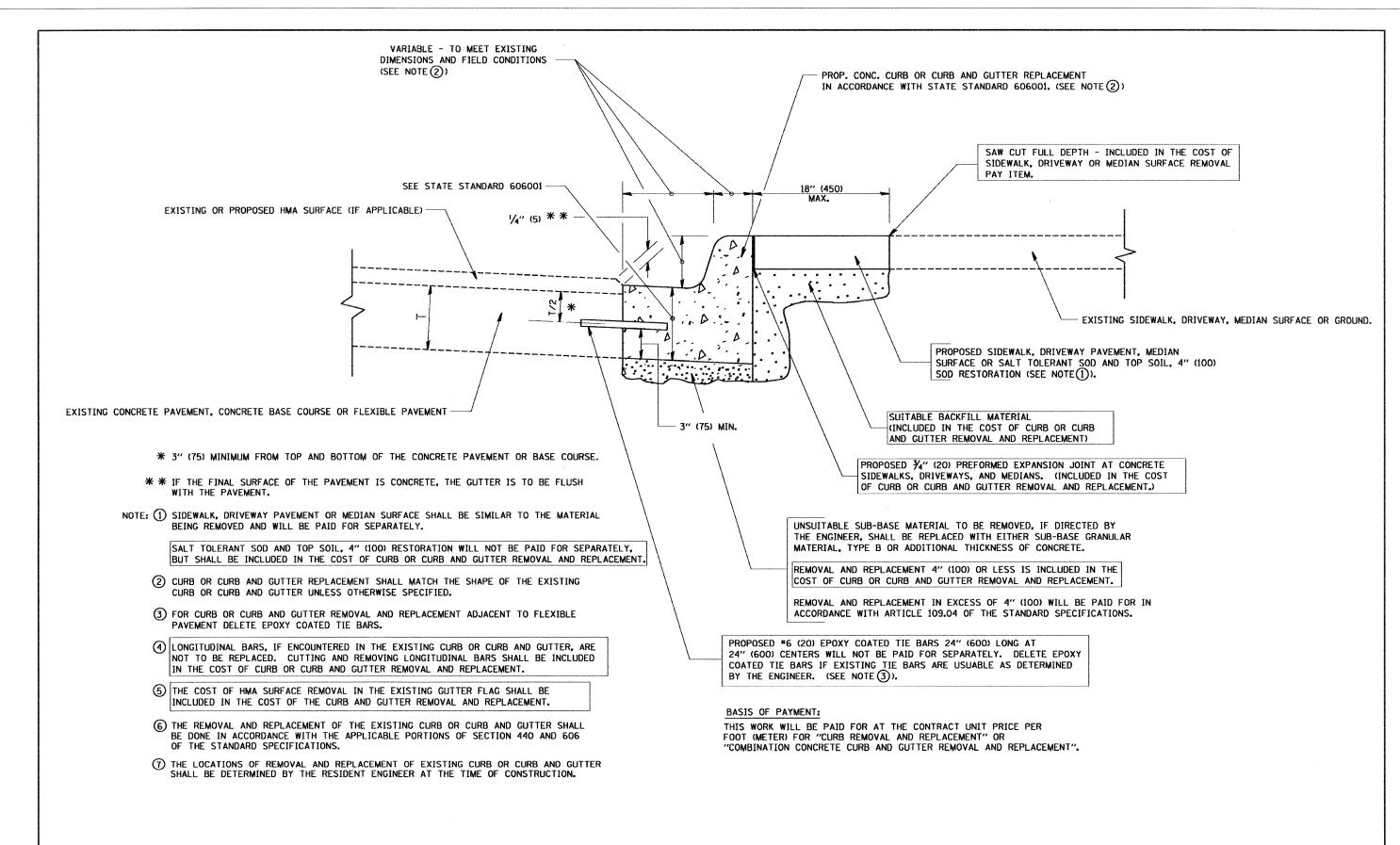
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

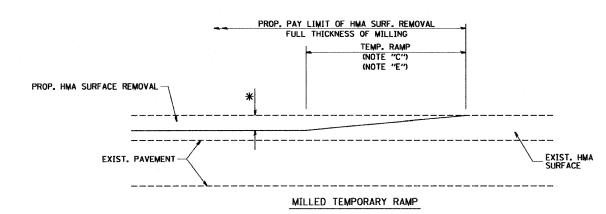
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		BD400-04 (BD-22)	CONTRACT NO. 60F23
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

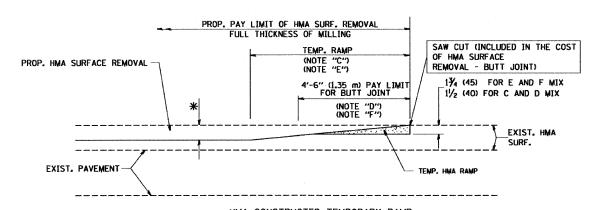
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UNLESS OTHERWISE SHOWN.

ŀ	TLE NAME =	USER NAME = gaglianobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	1	CURB OR CURB AND GUTTER	F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
1	l:\diststd\22x34\bd24.dgn			REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	REMOVAL AND REPLACEMENT		465 X-RS-1	соок	19 11
		PLOT SCALE = 50.000 '/ IN.		REVISED - N. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		В	D600-06 (BD-24)	CONTRACT	NO. 60F23
1		PLOT DATE = 1/4/2008	DATE ~ 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED. AI	D PROJECT	



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

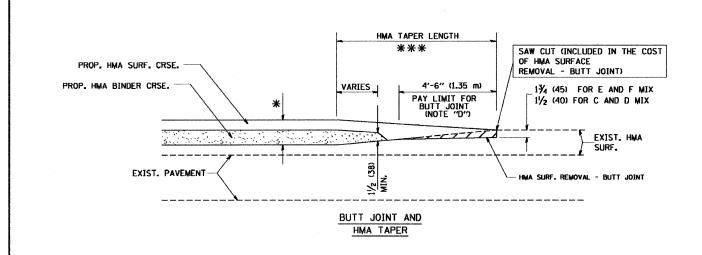


HMA CONSTRUCTED TEMPORARY RAMP

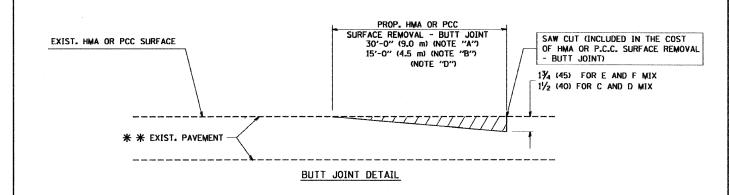
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

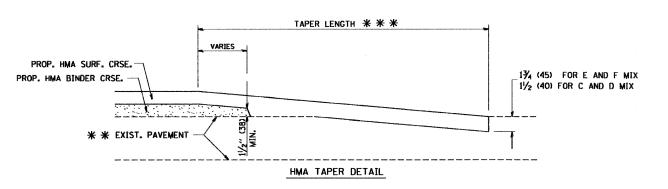
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

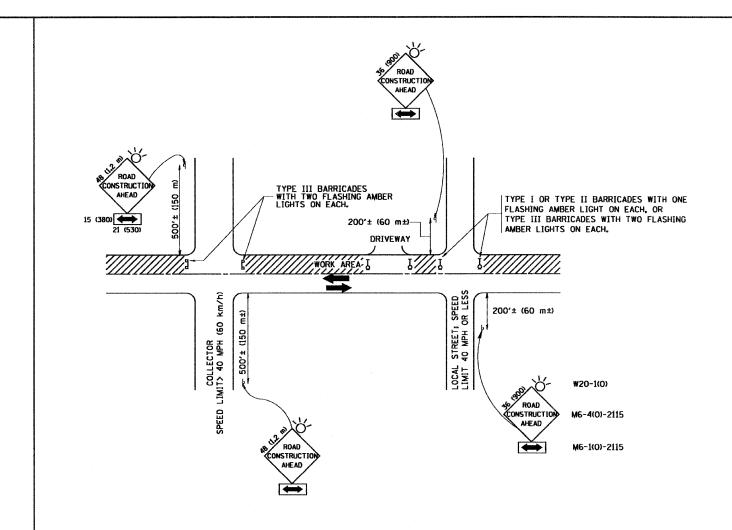
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- $\mbox{\ensuremath{D_{\text{T}}}}$ THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O" (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 SOUARE YARD (SOUARE 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 =	USER NAME = geglænobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94			BUTT JOINT AND		F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEE
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	HMA TAPER DETAILS			330	465 X-RS-1	соок	19 12
	PLOT SCALE = 50.0000 '/ IN.	CHECKED ~	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION				BD41	00-05 BD32	CONTRACT	NO. 60F23
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO ST	A.	FED. ROAD DIS	ST. NO. 1 ILLINOIS FED. A	ID 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:
- O) 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 1, TYPE 11 OR TYPE 111 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

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

TO STA.

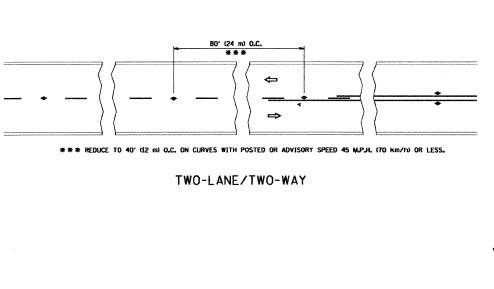
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER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

FILE NAME = .	USER NAME = gaglianobt	DESIGNED - LHA	REVISED	- J. OBERLE 10-18-95
W:\diststd\22x34\to10idgn		DRAWN -	REVISED	- A. HOUSEH 03-06-9
	PLOT SCALE = 50.000 '/ IN.	CHECKED	REVISED	- A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED	-T. RAMMACHER 01-06-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

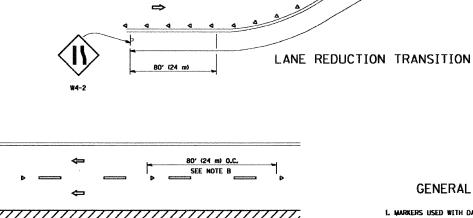
	TR	AFFIC	; C	ON	TROL	AND	PROTEC	TION	FOR
							IS, AND	DRIV	EWAY:
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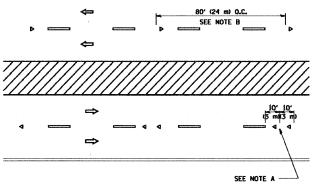


80' (24 m) O.C.

MULTI-LANE/UNDIVIDED

SEE NOTE A





MULTI-LANE/DIVIDED

GENERAL NOTES

3 e 40' (12 m) O.C. _ ←

- 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.

LANE MARKER NOTES

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

SYMBOLS

10' 10'

SEE NOTE A

TWO-WAY LEFT TURN

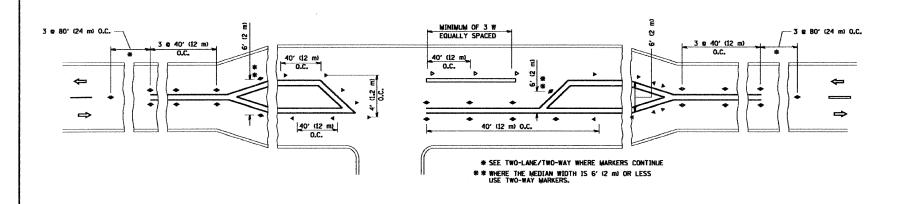
40' (12 m) O.C.

- ---- YELLOW STRIPE

- ONE-WAY CRYSTAL MARKER (W/O)

DESIGN NOTES

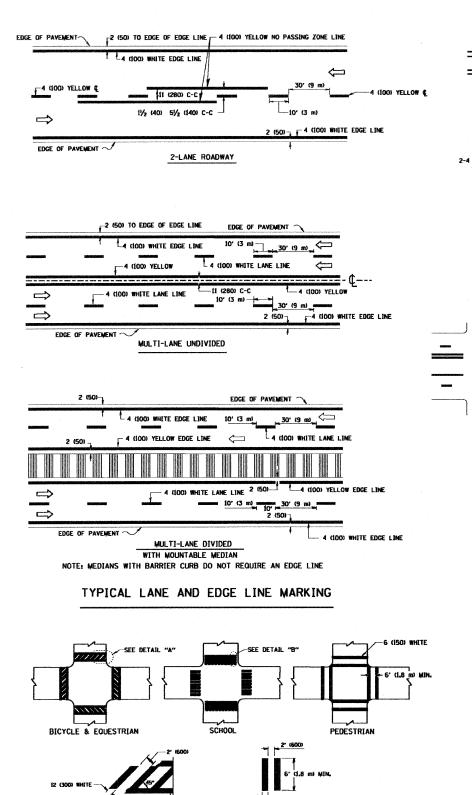
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD 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.

COUNTY SHEETS NO.
COOK 19 14 USER NAME = geglienobt DESIGNED REVISED - T. RAMMACHER 09-19-94 SECTION COUNTY TYPICAL APPLICATIONS DRAWN REVISED - T. RAMMACHER 03-12-99 STATE OF ILLINOIS W:\diststd\22x34\tc11.dgn RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) CHECKED REVISED -T. RAMMACHER 01-06-00 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 50.000 '/ IN. CONTRACT NO. 60F23 TC-11 SHEET NO. 1 OF 1 SHEETS STA. PLOT DATE = 1/4/2008 REVISED

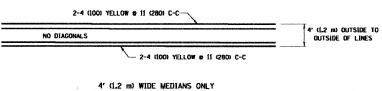


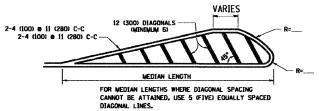
- 6 (150) WHITE

TYPICAL CROSSWALK MARKING

DETAIL "B"

DETAIL "A"

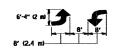




DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C 0MORE THAN 45MPH (70 km/h))

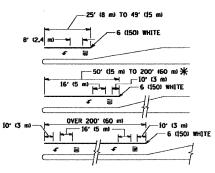
MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (5)/2 (140) C-C) 2-4 (100) YELLOW 6 11 (280) C-C 4 (100) YELLOW LINES (5)/2 (140) C-C)

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

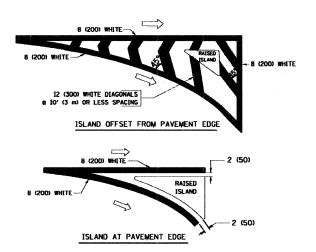


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) IN AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LAMES 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



TYPICAL ISLAND MARKING

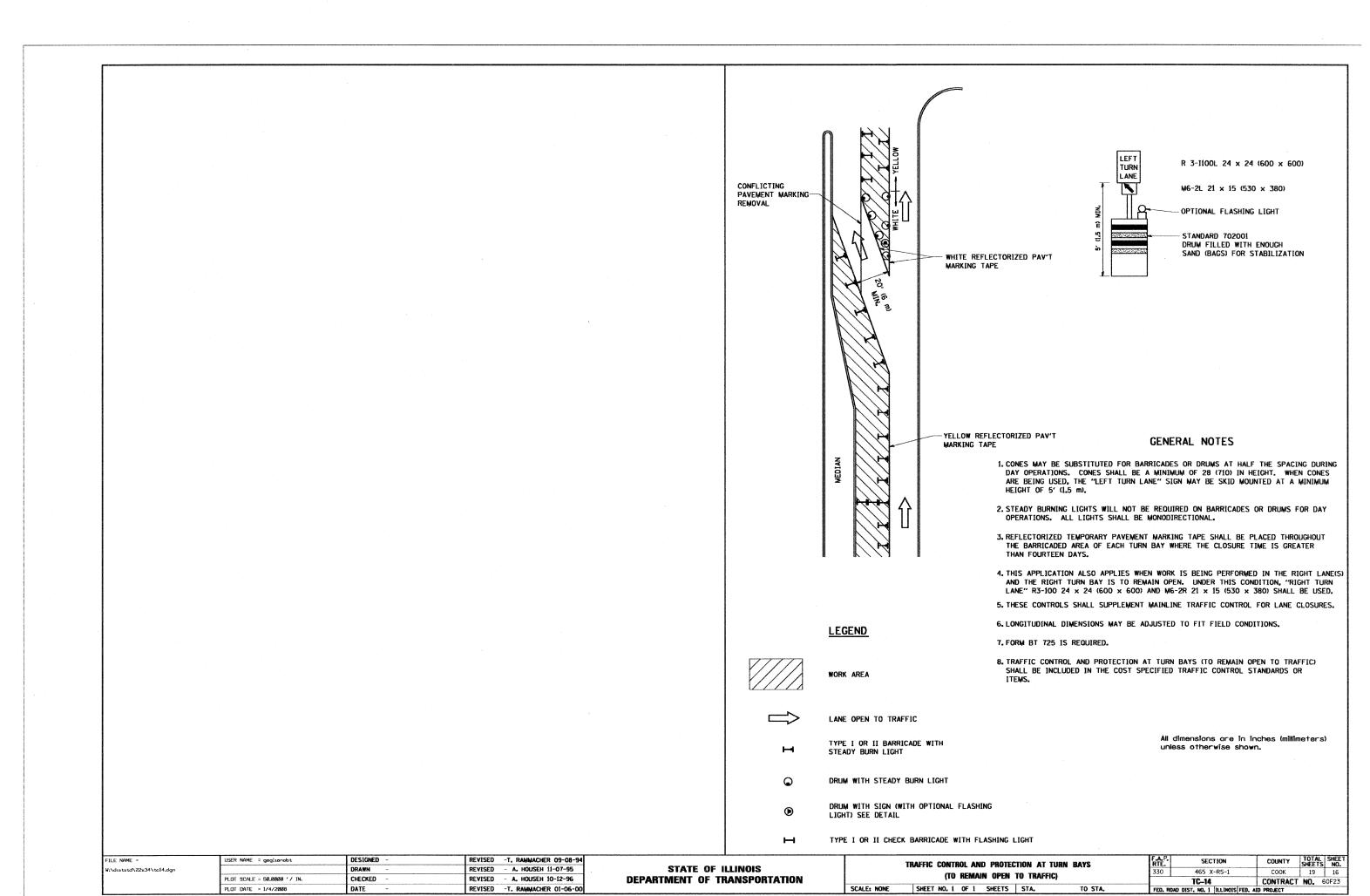
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 8 4 (100)	SOLID	YELLOW	11 12801 C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 to 4 (100)	SOLID SOLID	AETTOM AETTOM	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 12801 C-C OWIT 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' (L8 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 LAME MARKING DETAIL
TWO WAY LEFT TURN WARKING	2 e 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (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 (PEDESTRIAND A. DIAGONALS (BIKE & EQUESTRIAND B. LONGITUDINAL BARS (SCHOOL)	2 8 6 (150) 12 (300) 8 45° 12 (300) 8 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (I.8 m) APART 2' (GOD) APART 2' (GOD) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) DM ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED WEDIANS	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 WEDIAN 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 ml LETTERS, 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 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))

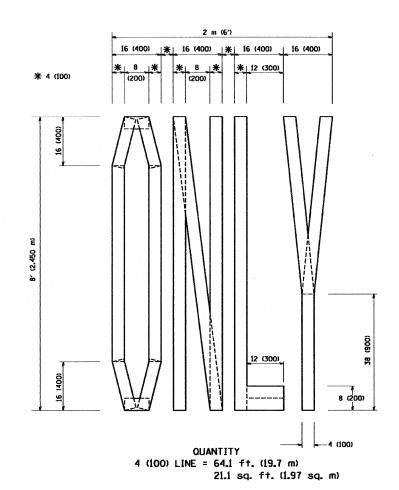
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

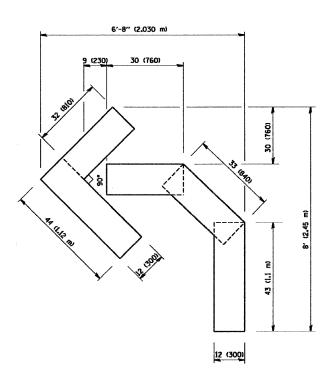
All dimensions are in inches (millimeters) unless otherwise shown,

TIFICAL TORN LANE WARRING

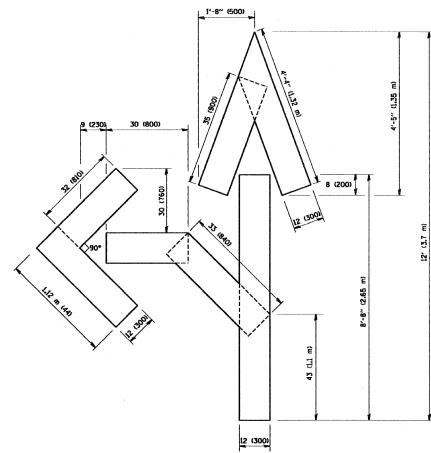
FILE NAME =	USER NAME = geglienobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.P. SECTION	ION COUNTY	TOTAL	
Wi\diststd\22x34\tol3.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS		330 465 X-R	RS-1 COOK	19	15
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	TC-13	CONTRAC	T NO. E	50F23
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 IL			-







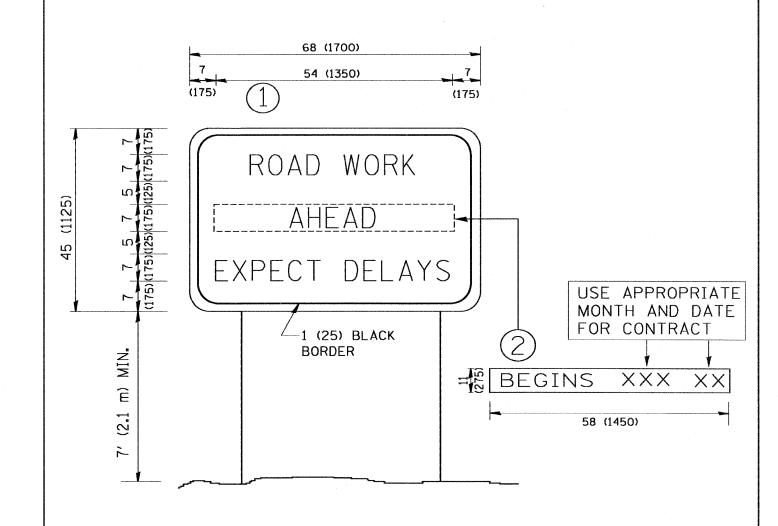
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS			F.A.P.	SECTION	COUNTY TOTAL SHEET NO.
W:\diststd\22x34\tc16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS				330	465 X-RS-1	COOK 19 17
	PLOT SCALE = 50.0000 '/ IN.	CHECKED ~	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING			TC-16	CONTRACT NO. 60F23	
	PLOT DATE = 1/4/2008	DATE ~ 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT

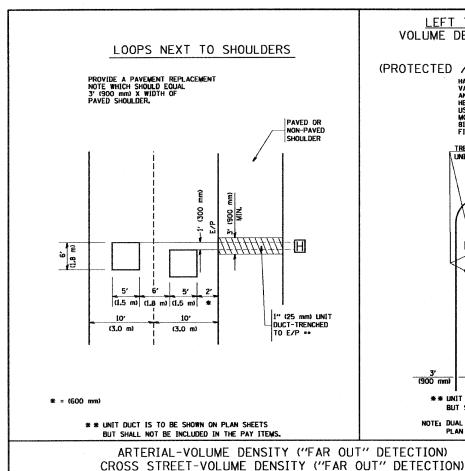


NOTES:

- 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.

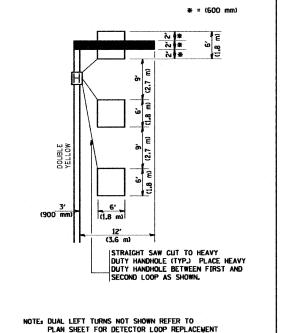
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ľ	FILE NAME =	USER NAME = geglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	RTE. SECTION		TAL SHEET
1	/i\diststd\22x34\to22.dgn			REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	330 465 X-RS-1		19 18
I		PLOT SCALE = 50.000 '/ IN.		REVISED -T. RAMMACHER 02-02-99			TC-22	CONTRACT NO.	60F23
L		PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	



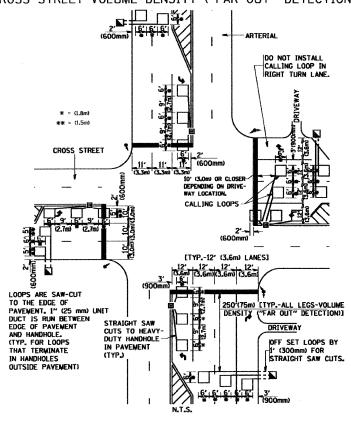
LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm) UNIT DUCT (3) ** # = (600 mm) E (900 mm) (1.8 m) ** 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

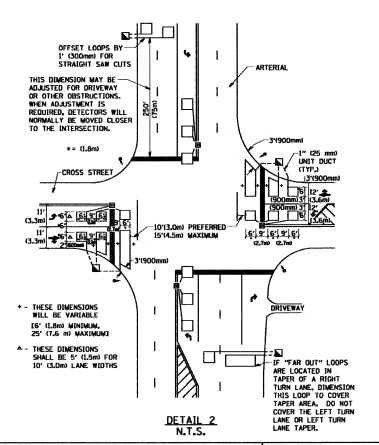
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)



SCALE: NONE

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





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
- * 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
- * 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.

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.

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.

DESIGNED REVISED FILE NAME = JSER NAME = gaglianobt :\diststd\22x34\tsØ7.dar DRAWN REVISED PLOT SCALE = 50.0000 '/ IN. CHECKED - R.K.F. REVISED NOT DATE = 1/4/2006 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEE SECTION COUNTY DISTRICT 1 - DETECTOR LOOP INSTALLATION СООК DETAILS FOR ROADWAY RESURFACING TS-07 CONTRACT NO. 60F23 SHEET NO. 1 OF 1 SHEETS STA. TO STA