

06-15-12 LETTING ITEM 004

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

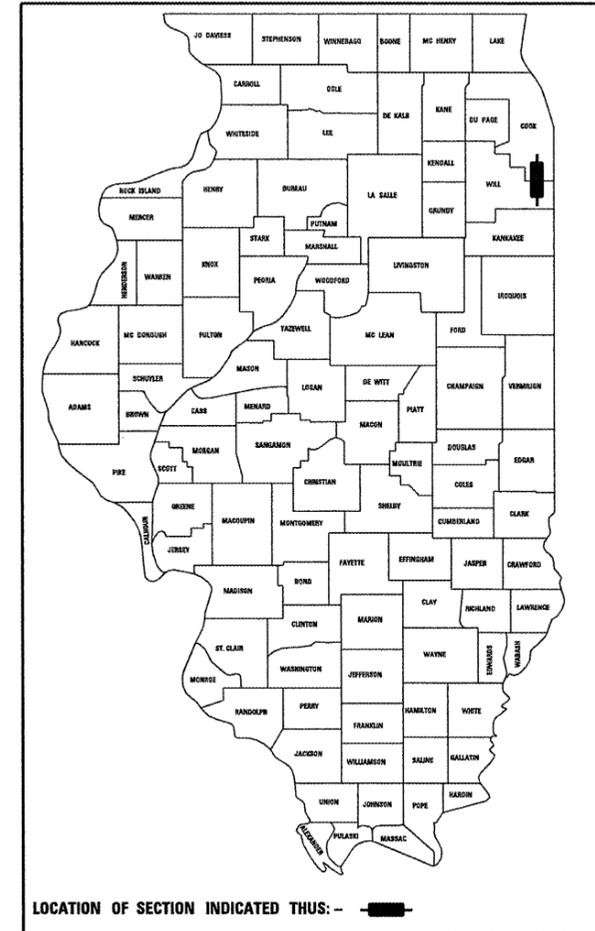
**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 348 (HARLEM AVE)
OVER MIDLOTHIAN CREEK
SECTION 3127-2-SB-1
BRIDGE DECK OVERLAY
STRUCTURE NO. 016-0963
COOK COUNTY

C-91-156-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-1	COOK	19	1
ILLINOIS			CONTRACT NO. 60M71	

D-91-156-11

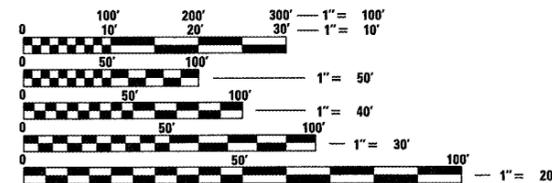


EXISTING ADT = 36100 (2009)
SPEED LIMIT = 40 MPH



ROBERT TESSIATORE
DATE: 3/30/2012
EXP.: 11/30/2013
SHEET: 1-6

PROJECT IS IN THE VILLAGE OF TINLEY PARK.



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

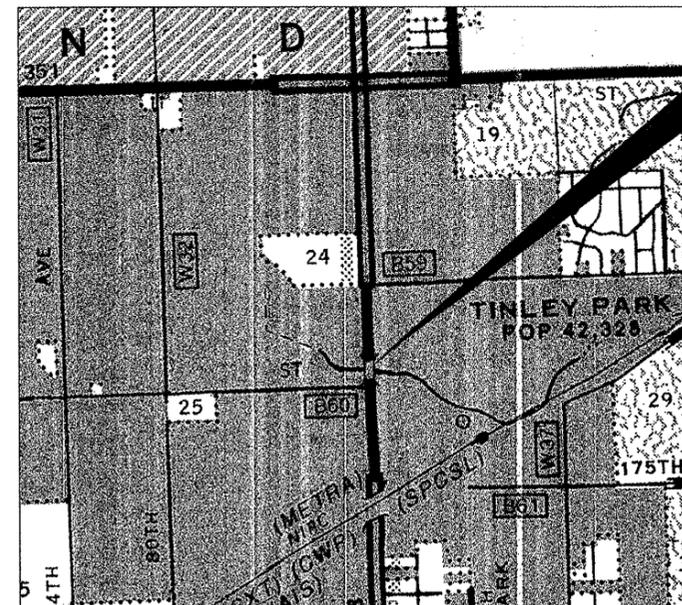
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: ROBERT BORO 847-705-4237
PROJECT MANAGER: ISSAM RAYYAN 847-705-4178

CONTRACT NO. 60M71

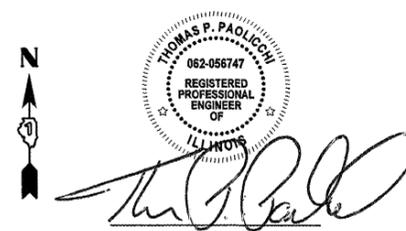
ORLAND TOWNSHIP
SEC 25 - SE 1/4
R12E

BREMEN TOWNSHIP
SEC 30 - SW 1/4
R13E



GROSS LENGTH = 113 FT. = 0.021 MILE
NET LENGTH = 113 FT. = 0.021 MILE

BRIDGE REPAIR
SN: 016-0963
BEGIN STA 285+92
END STA 287+08



THOMAS P. PAOLICCHI, P.E.
DATE: 3/30/2012
EXP.: 11/30/2013
SHEET: 7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED APRIL 3 20 12
Diane O'Keefe / ASW
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 20 12
John D. Brammell, P.E./pc
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 12
William R. Frey, Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-08 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631026-05 TRAFFIC BARRIER TERMINAL, TYPE 5
- 701606-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	PERCENT AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL 9.5mm), (1 1/2")	4% @ 70 Cgr.
TEMPORARY PAVEMENT:	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), (2")	4% @ 50 Cgr.
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, (10")	4% @ 50 Cgr.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 - 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 SPECIAL PROVISIONS.

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE LOCAL MUNICIPALITY.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
6. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT.) IN ACCORDANCE WITH "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
7. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
8. THE ENGINEER SHALL CONTACT PATRICE HARRIS, TRAFFIC FIELD TECHNICIAN, AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
10. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM IDOT BRIDGE INSPECTORS IN MARCH 2009.
11. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
12. CONTRACTOR SHALL MILL BEFORE PATCHING.
13. SEEDING, CLASS 2A AND ALL FERTILIZER SHALL BE INCLUDED IN THE COST OF TOPSOIL FURNISH AND PLACE, 4".
14. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDINGLY TO SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGES TO THE MOT PLANS.
2. ALL EXISTING PAVEMENT MARKING IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "PAVEMENT MARKING REMOVAL".
3. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE WHICH CONFLICT WITH THE NEXT STAGE OR FINAL STRIPING. REMOVAL OF TEMPORARY PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "WORK ZONE PAVEMENT MARKING REMOVAL".
4. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS, OR HIGHWAY STANDARD SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
5. ALL DRUMS, VERTICAL PANELS AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURNING MONO-DIRECTIONAL LIGHTS.
6. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
7. ALL TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "TEMPORARY INFORMATION SIGNING".
8. FOR ADDITIONAL BRIDGE CONSTRUCTION STAGING INFORMATION, SEE STRUCTURAL PLANS.
9. CONTRACTOR SHALL LOCATE AND PROVIDE ALL APPROACH SIGNAGE PER REFERENCED HIGHWAY STANDARDS. SIGN LOCATIONS SHOWN ARE SCHEMATIC ONLY.
10. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OF CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
11. THE RESIDENT ENGINEER SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICE.

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USER NAME :	DESIGNED - KAC	REVISED -
PLOT SCALE :	CHECKED - BRT	REVISED -
PLOT DATE : 3/28/2012	DRAWN - CEY	REVISED -
	CHECKED - BJM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES
IL ROUTE 43 (HARLEM AVE)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-1	COOK	19	2
			CONTRACT NO. 60M71	
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 1 SHEETS

SUMMARY OF QUANTITIES

Specialty Item	CODE NUMBER	ITEM	UNIT	URBAN	CONSTRUCTION TYPE CODE 0014
				TOTAL QUANTITY	SN 016-0963 100% STATE
	20800150	TRENCH BACKFILL	CU YD	9.5	9.5
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	113.6	113.6
*	25100630	EROSION CONTROL BLANKET	SQ YD	113.6	113.6
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	83	83
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	483	483
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	73	73
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	100	100
	44000100	PAVEMENT REMOVAL	SQ YD	151.1	151.1
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	17	17
	44000600	SIDEWALK REMOVAL	SQ FT	100	100
	44003100	MEDIAN REMOVAL	SQ FT	151.1	151.1
	50300100	FLOOR DRAINS	EACH	2	2
	50300260	BRIDGE DECK GROOVING	SQ YD	120	120
	50300300	PROTECTIVE COAT	SQ YD	74	74
	550A0340	STORM SEWER, CLASS A, TYPE 2 12"	FOOT	8	8
	60237470	INLET, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2
	60500060	REMOVING INLETS	EACH	2	2
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	146	146
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	17	17
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	119	119
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	275.0	275.0
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2
*	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
*	63200310	GUARDRAIL REMOVAL	FOOT	454	454
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
	67100100	MOBILIZATION	L SUM	1	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8
*	Specialty Item				

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USER NAME *
 PLOT SCALE *
 PLOT DATE : 3/27/2012

DESIGNED - KAC
 CHECKED - BRT
 DRAWN - CEY
 CHECKED - BJM

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 IL ROUTE 43 (HARLEM AVE)**

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE. 348	SECTION 3127-2-SB-1	COUNTY COOK	TOTAL SHEETS 19	SHEET NO. 3
CONTRACT NO. 60M71				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

Specialty Item	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0014
					SN 016-0963
					100% STATE
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	28	28
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3488	3488
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36.4	36.4
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1979	1979
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	60	60
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	84	84
*	78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	20	20
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	29	29
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	76.7	76.7
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	33	33
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	22	22
	Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	124	124
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	130	130
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	92	92
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4	4
	Z0021922	SILICONE JOINT SEALER	FOOT	22	22
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	70.2	70.2
	Z0041895	POLYMER CONCRETE	CU FT	10.4	10.4
	Z0062456	TEMPORARY PAVEMENT	SQ YD	151.1	151.1
*	A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	10463	10463
*	Specialty Item				

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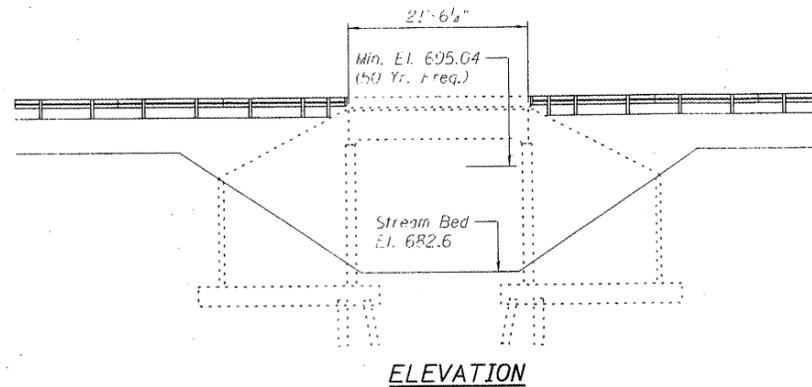
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PLOT DATE = 3/27/2012	CHECKED - BJM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 43 (HARLEM AVE)**

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	4
			CONTRACT NO. 60M71	
ILLINOIS FED. AID PROJECT				



SCOPE OF WORK

1. Partial depth slab repairs.
2. Scarify 3/4" bridge deck slab surface.
3. Reconstruction of transverse joints.
4. Place 2 1/4" latex concrete overlay.
5. Patch & overlay approaches.
6. Structural repairs of concrete to substructures.
7. Full depth slab repairs.
8. Remove and replace approach inlets and 12" dia. CMP.
9. Remove existing bridge deck drains w/11 6" ϕ (4) and replace (2).

INDEX OF SHEETS

1. General Plan and Elevation
2. Slope Construction Details
3. Deck and Approach Slab Repair Plan
4. Deck and Approach Slab Repair Details
5. Substructure Repairs

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (C) shall be epoxy coated.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi

LOADING HS20-44

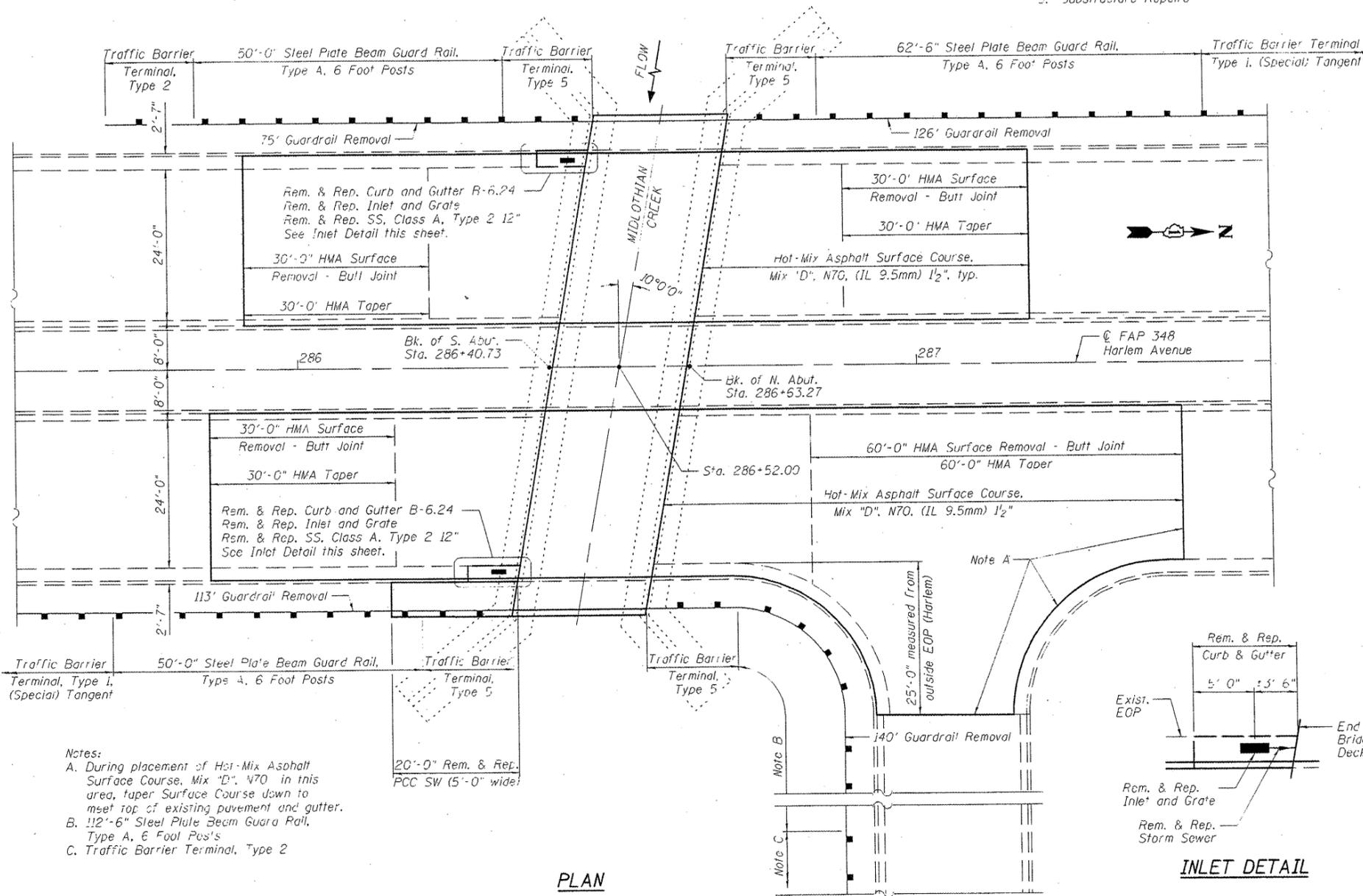
Original Construction

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Deck Slab Repair (Partial) *	Sq. Yd.	40		40
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4		4
Approach Slab Repair (Partial Depth)	Sq. Yd.	22		22
Bridge Deck Grooving	Sq. Yd.	120		120
Bridge Deck Scarification 3/4"	Sq. Yd.	130		130
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	124		124
Combination Curb and Gutter Removal	Foot	17		17
Combination Concrete Curb and Gutter, Type B-6.24	Foot	17		17
Hot-Mix Asphalt Surface Course, Mix "D", N70	Ton	73		73
Protective Coat	Sq. Yd.	74		74
Structural Repair of Concretes (Depth Equal To or Less Than 5 inches)	Sq. Ft.		92	92
Hot-Mix Asphalt Surface Removal - Butt Joint	Sq. Yd.	483		483
Sidewalk Removal	Sq. Ft.	100		100
Portland Cement Concrete Sidewalk 5 Inch	Sq. Ft.	100		100
Storm Sewer, Class A, Type 2 12"	Foot	8		8
Inlet, Type A, Type 24 Frame and Grate	Each	2		2
Floor Drains	Each	2		2
Removing Inlets	Each	2		2
Silicone Joint Sealer	Foot	22		22
Polymer Concrete	Cu. Ft.	10.4		10.4
Bituminous Materials (Prime Coat)	Gallon	83		83
Guardrail Removal	Foot	454		454
Steel Plate Beam Guard Rail, Type A, 6 Foot Posts	Foot	275		275
Traffic Barrier Terminal, Type 1 (Special) Tangent	Each	2		2
Traffic Barrier Terminal, Type 2	Each	2		2
Traffic Barrier Terminal, Type 5	Each	1		1

* For Information Only

**GENERAL PLAN AND ELEVATION
 IL 43 (HARLEM AVENUE)
 OVER MIDLOTHIAN CREEK
 F.A.P. RT. 348 - SEC. 3127-2-SB-1
 COOK COUNTY
 STATION 286+52.00
 STRUCTURE NO. 016-0963**



Notes:

- A. During placement of Hot-Mix Asphalt Surface Course, Mix "D", N70 in this area, taper Surface Course down to meet top of existing pavement and gutter.
- B. 112'-6" Steel Plate Beam Guard Rail, Type A, 6 Foot Posts
- C. Traffic Barrier Terminal, Type 2

PLAN

INLET DETAIL



USER NAME	DESIGNED - BRT	REVISIONS
PLOT SCALE - 1"=10'	CHECKED - BJM	REVISIONS
PLOT DATE - 3/27/2012	DRAWN - CEY	REVISIONS
	CHECKED - BJM	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 016-0963**

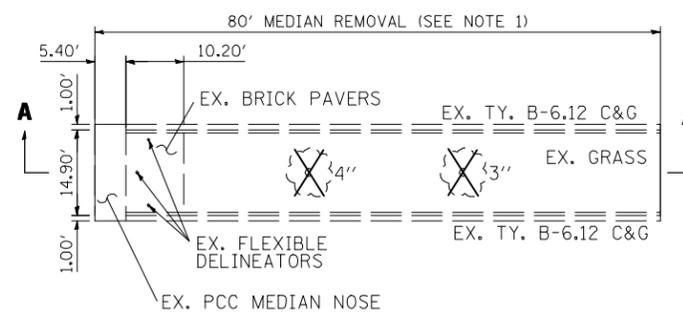
SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE. 348	SECTION 3127-2-SB-1	COUNTY COOK	TOTAL SHEETS 19	SHEET NO. 8
			CONTRACT NO. 60M71	
ILLINOIS FED. AID PROJECT				

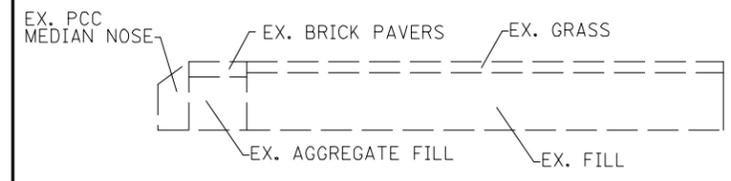
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NOTE:

- REMOVAL OF THE BRICK PAVERS, TREES, CURB & GUTTER, FLEXIBLE DELINEATORS, CONCRETE MEDIAN PAVEMENT AND EARTH EXCAVATION TO THE SUBGRADE OF THE TEMPORARY PAVEMENT IS INCLUDED IN THE MEDIAN REMOVAL PAY ITEM.
- TEMPORARY PAVEMENT SHALL CONSIST OF:
 - HMA BINDER COURSE, IL-19.0, N50, (10'')
 - HMA SURFACE COURSE MIX "D", N50, (2'')

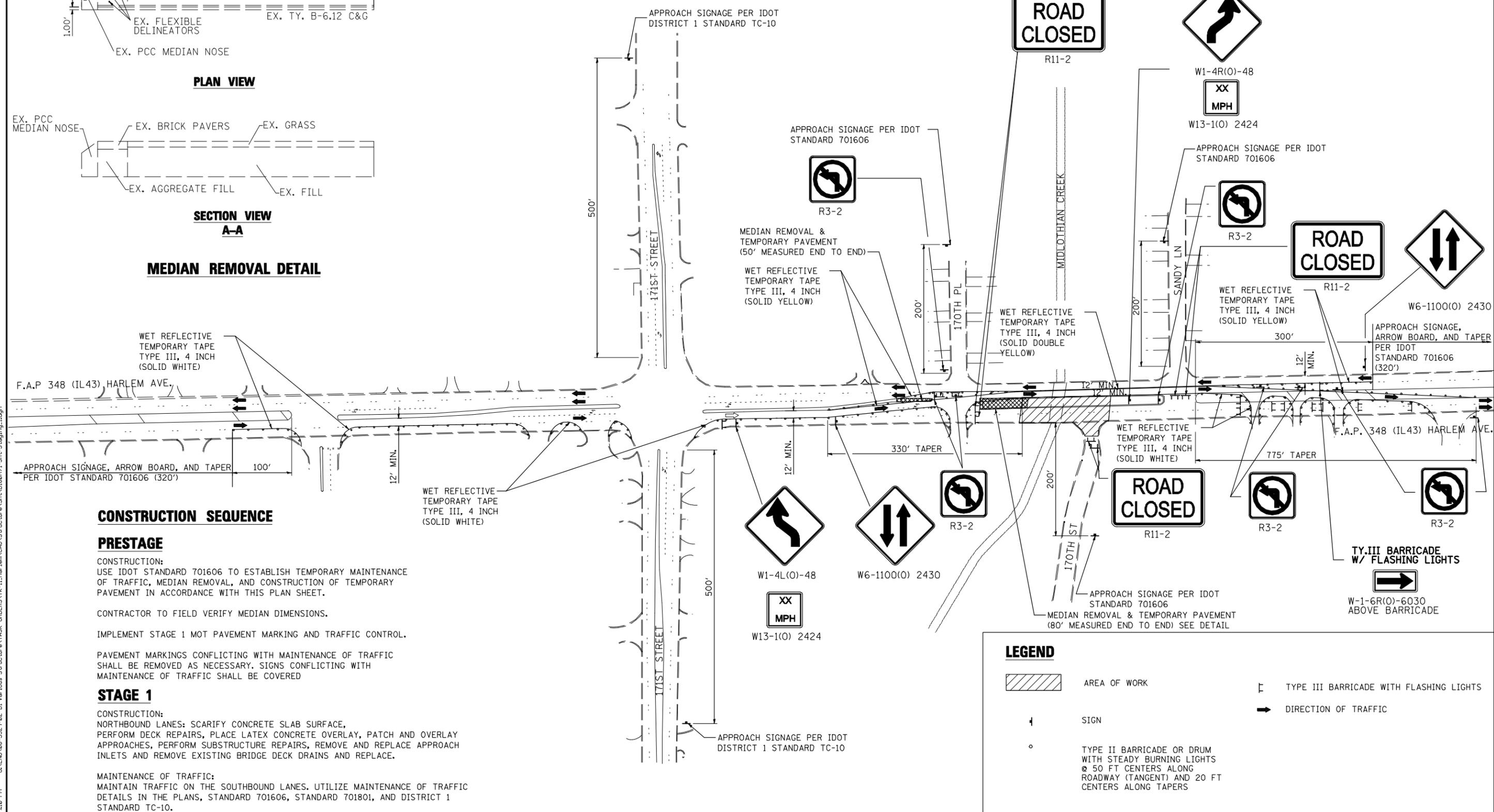


PLAN VIEW



SECTION VIEW A-A

MEDIAN REMOVAL DETAIL



CONSTRUCTION SEQUENCE

PRESTAGE

CONSTRUCTION:
USE IDOT STANDARD 701606 TO ESTABLISH TEMPORARY MAINTENANCE OF TRAFFIC, MEDIAN REMOVAL, AND CONSTRUCTION OF TEMPORARY PAVEMENT IN ACCORDANCE WITH THIS PLAN SHEET.

CONTRACTOR TO FIELD VERIFY MEDIAN DIMENSIONS.

IMPLEMENT STAGE 1 MOT PAVEMENT MARKING AND TRAFFIC CONTROL.

PAVEMENT MARKINGS CONFLICTING WITH MAINTENANCE OF TRAFFIC SHALL BE REMOVED AS NECESSARY. SIGNS CONFLICTING WITH MAINTENANCE OF TRAFFIC SHALL BE COVERED

STAGE 1

CONSTRUCTION:
NORTHBOUND LANES: SCARIFY CONCRETE SLAB SURFACE, PERFORM DECK REPAIRS, PLACE LATEX CONCRETE OVERLAY, PATCH AND OVERLAY APPROACHES, PERFORM SUBSTRUCTURE REPAIRS, REMOVE AND REPLACE APPROACH INLETS AND REMOVE EXISTING BRIDGE DECK DRAINS AND REPLACE.

MAINTENANCE OF TRAFFIC:
MAINTAIN TRAFFIC ON THE SOUTHBOUND LANES. UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS, STANDARD 701606, STANDARD 701801, AND DISTRICT 1 STANDARD TC-10.

LEGEND

- AREA OF WORK
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 20 FT CENTERS ALONG TAPERS

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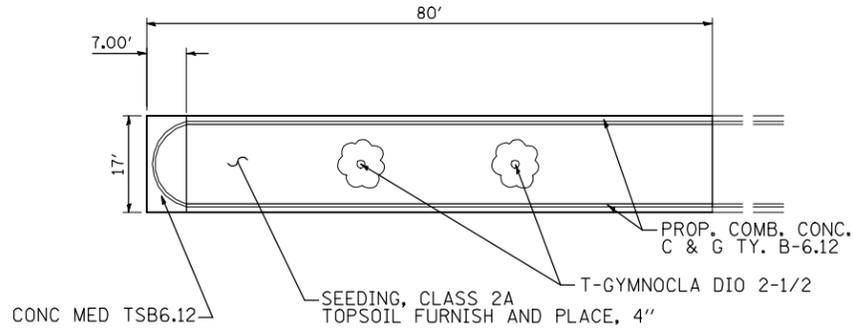
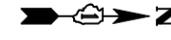
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1
IL ROUTE 43 (HARLEM AVE)**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-1	COOK	19	5
CONTRACT NO. 60M71				

ILLINOIS FED. AID PROJECT

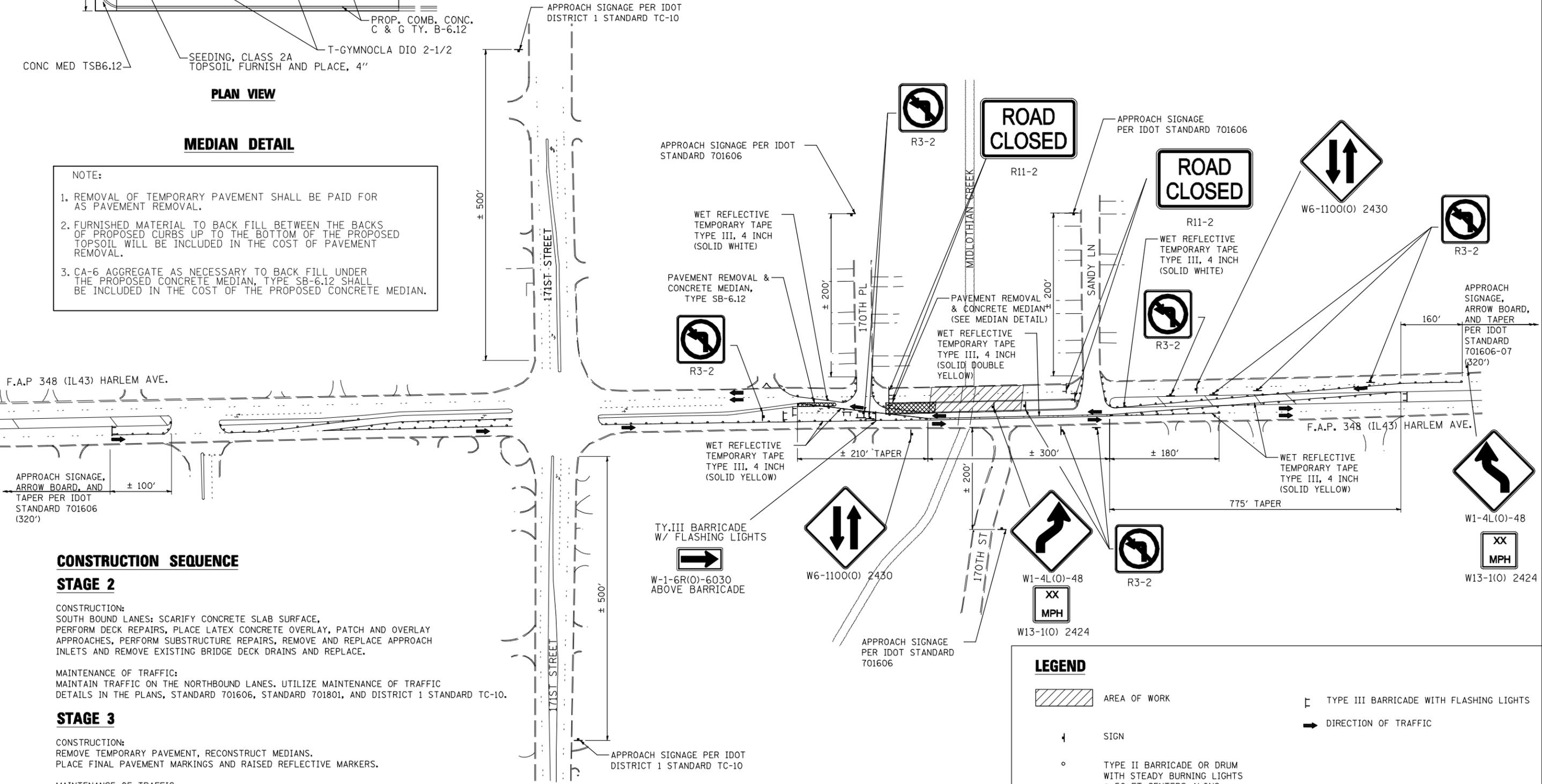


PLAN VIEW

MEDIAN DETAIL

NOTE:

- REMOVAL OF TEMPORARY PAVEMENT SHALL BE PAID FOR AS PAVEMENT REMOVAL.
- FURNISHED MATERIAL TO BACK FILL BETWEEN THE BACKS OF PROPOSED CURBS UP TO THE BOTTOM OF THE PROPOSED TOPSOIL WILL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
- CA-6 AGGREGATE AS NECESSARY TO BACK FILL UNDER THE PROPOSED CONCRETE MEDIAN, TYPE SB-6.12 SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONCRETE MEDIAN.



CONSTRUCTION SEQUENCE

STAGE 2

CONSTRUCTION:
SOUTH BOUND LANES: SCARIFY CONCRETE SLAB SURFACE, PERFORM DECK REPAIRS, PLACE LATEX CONCRETE OVERLAY, PATCH AND OVERLAY APPROACHES, PERFORM SUBSTRUCTURE REPAIRS, REMOVE AND REPLACE APPROACH INLETS AND REMOVE EXISTING BRIDGE DECK DRAINS AND REPLACE.

MAINTENANCE OF TRAFFIC:
MAINTAIN TRAFFIC ON THE NORTHBOUND LANES. UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS, STANDARD 701606, STANDARD 701801, AND DISTRICT 1 STANDARD TC-10.

STAGE 3

CONSTRUCTION:
REMOVE TEMPORARY PAVEMENT, RECONSTRUCT MEDIANS. PLACE FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS.

MAINTENANCE OF TRAFFIC:
UTILIZE STANDARD 701606 AND 701311

LEGEND

- AREA OF WORK
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 20 FT CENTERS ALONG TAPERS

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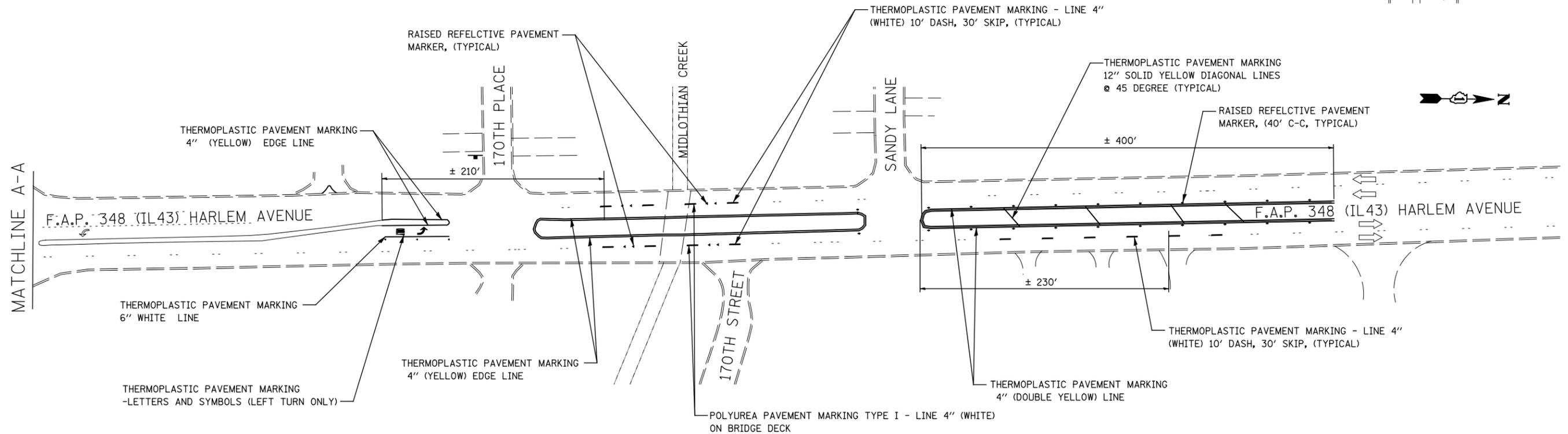
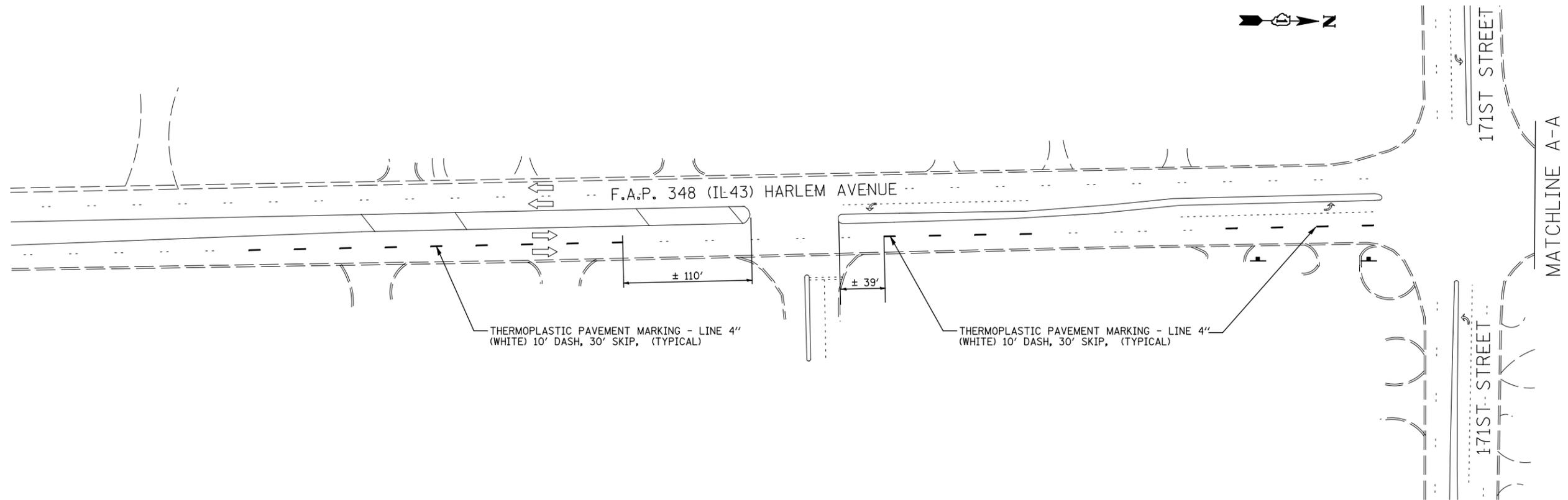
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2
IL ROUTE 43 (HARLEM AVE)**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-1	COOK	19	6
CONTRACT NO. 60M71				

ILLINOIS FED. AID PROJECT



9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773-239-3728

DESIGNED	GLA	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	GLA	REVISED	-
CHECKED	TPP	REVISED	-

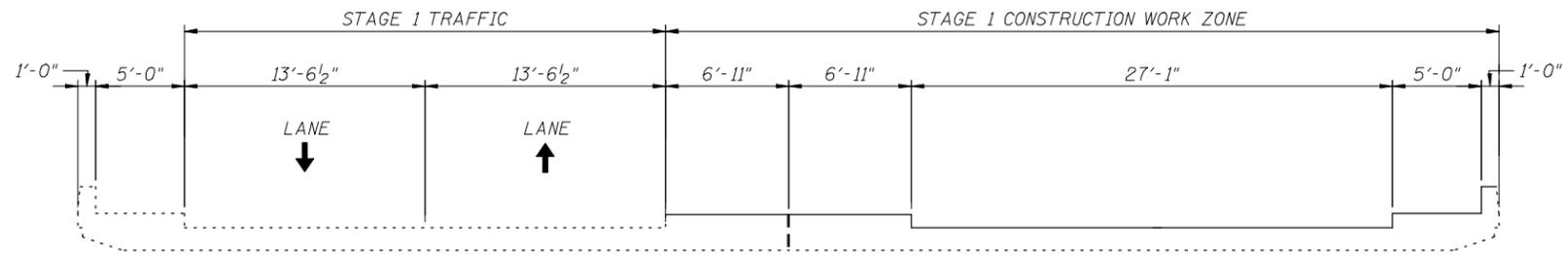
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 43 (HARLEM AVE)
SN. 016-0963

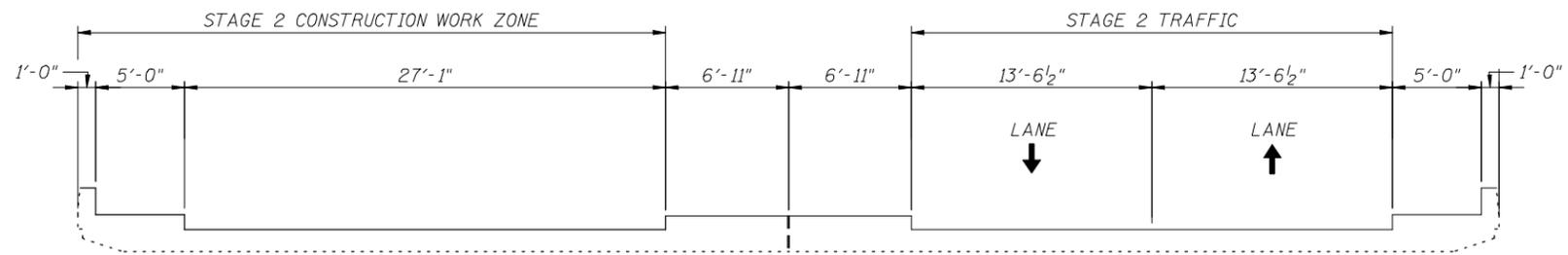
PROPOSED PAVEMENT
MARKINGS

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	7
CONTRACT NO. 60M71				
ILLINOIS FED. AID PROJECT				



STAGE 1 - CROSS SECTION
LOOKING NORTH



STAGE 2 - CROSS SECTION
LOOKING NORTH

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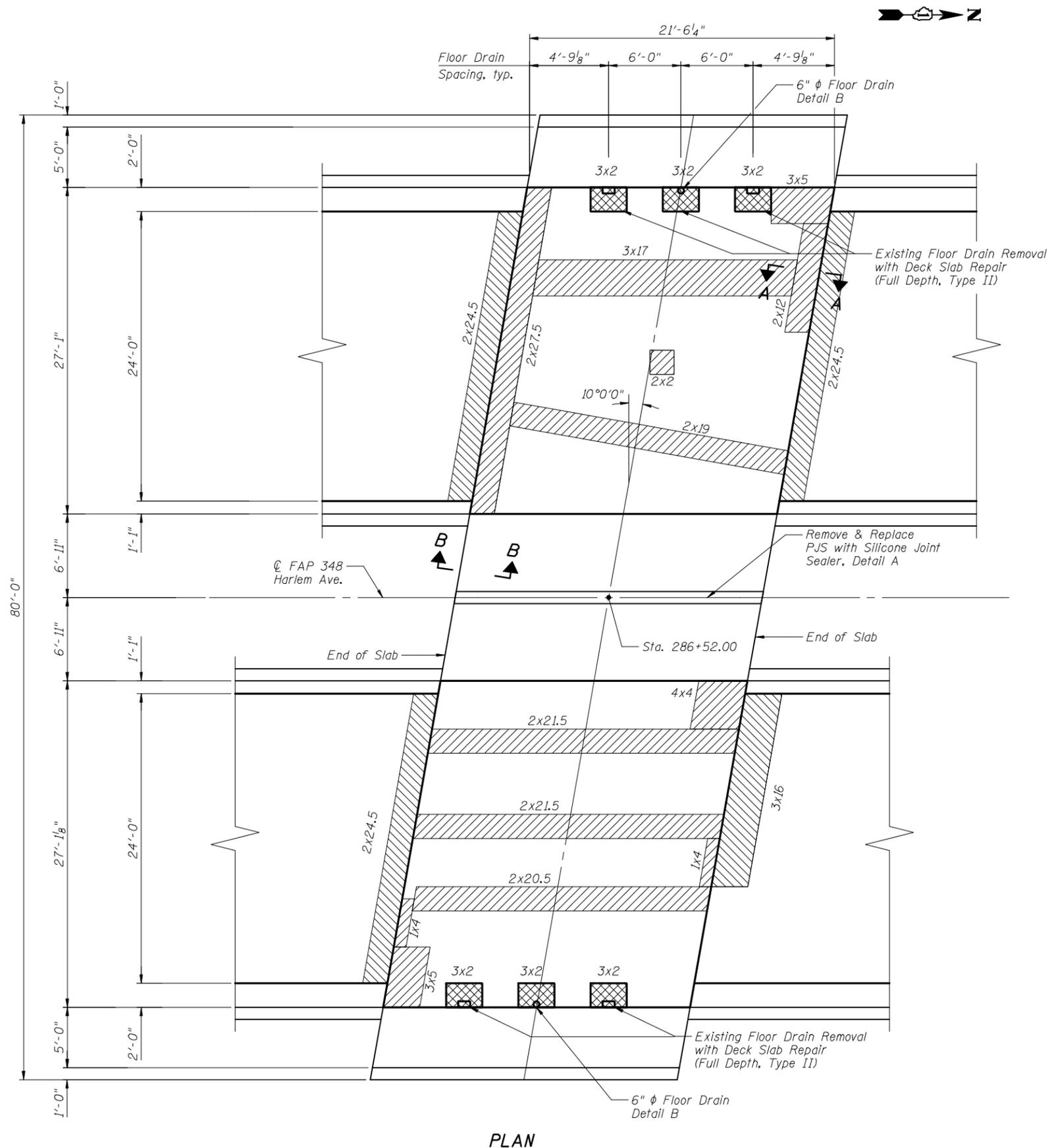
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 016-0963

SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-1	COOK	19	9
CONTRACT NO. 60M71				
ILLINOIS FED. AID PROJECT				

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PLAN

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial) *A	Sq. Yd.	40.0
	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4.0
	Protective Coat	Sq. Yd.	74
	Bridge Deck Grooving	Sq. Yd.	120
	Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	124
	Bridge Deck Scarification 3/4"	Sq. Yd.	130
	Silicone Joint Sealer	Foot	22
	Polymer Concrete	Cu. Ft.	10.4
	Floor Drains	Each	2
	Approach Slab Repair (Partial Depth)	Sq. Yd.	22

*A - For information only to assist the Contractor in bidding. See Special Provision for "Bridge Deck Latex Concrete Overlay".

See Sheet 11 of 19 for Section A-A, Section B-B, Detail A and Detail B.

Size of repairs are given in feet. For example, 3x2 denotes a 3'x2' repair.



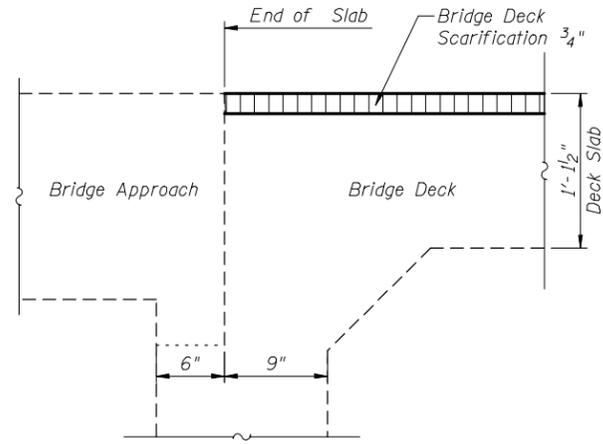
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

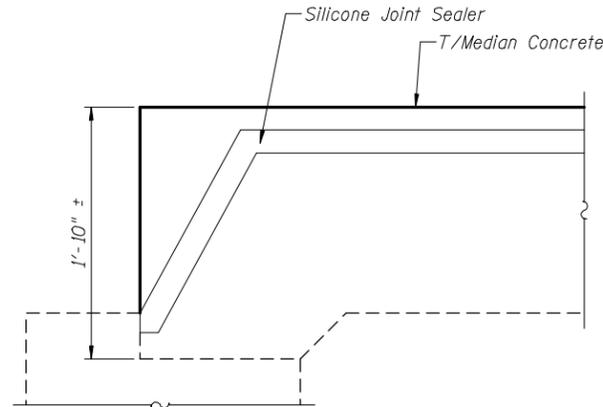
**DECK AND APPROACH SLAB REPAIR PLAN
STRUCTURE NO. 016-0963**

SHEET NO. 3 OF 5 SHEETS

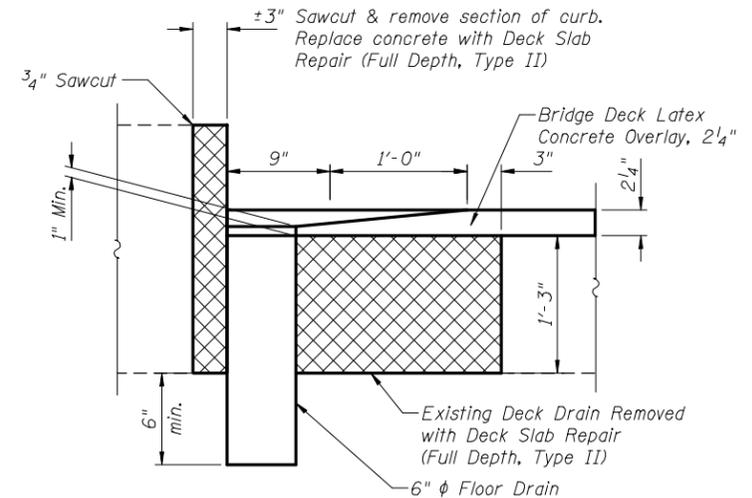
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CONTRACT NO. 60M71				
ILLINOIS FED. AID PROJECT				



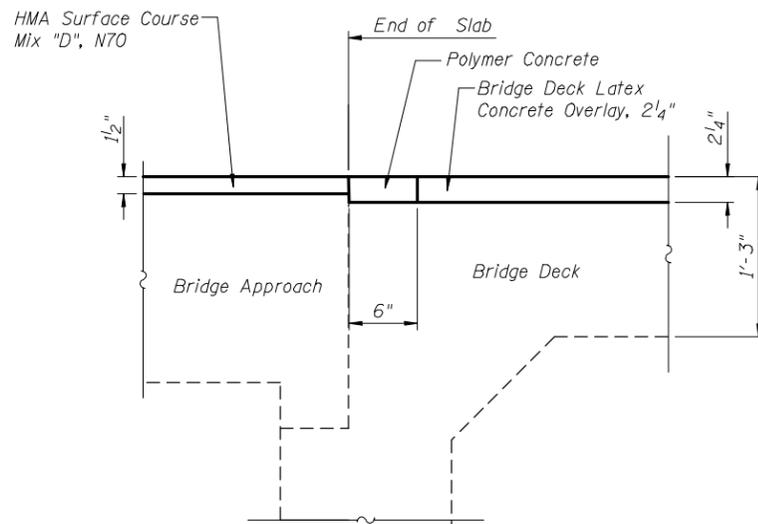
**SECTION A-A
EXISTING**



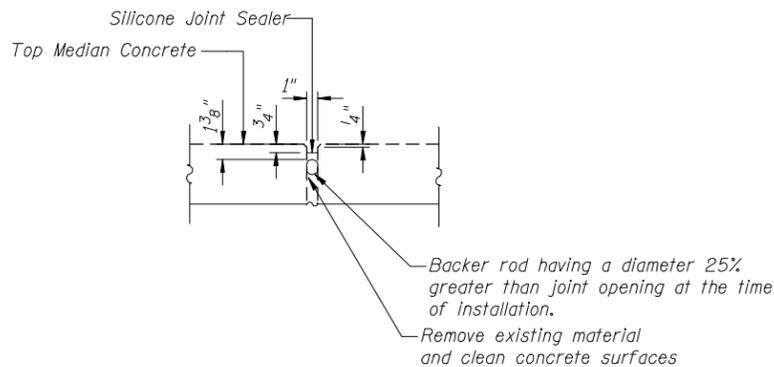
**SECTION B-B
MEDIAN LONGITUDINAL
JOINT-END DETAIL**



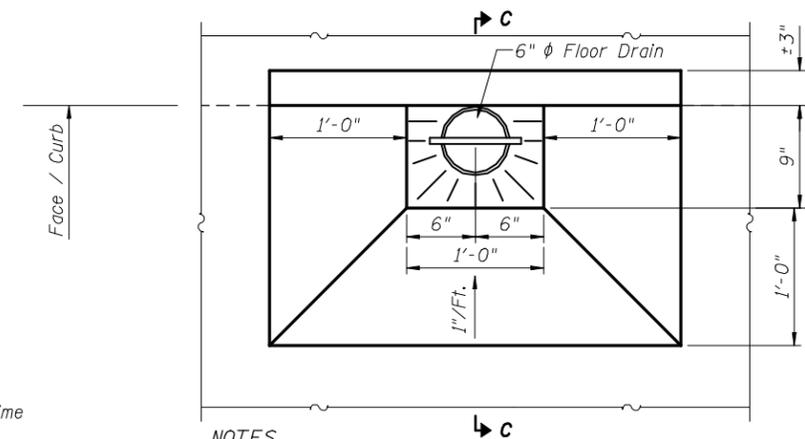
SECTION C-C



**SECTION A-A
PROPOSED**



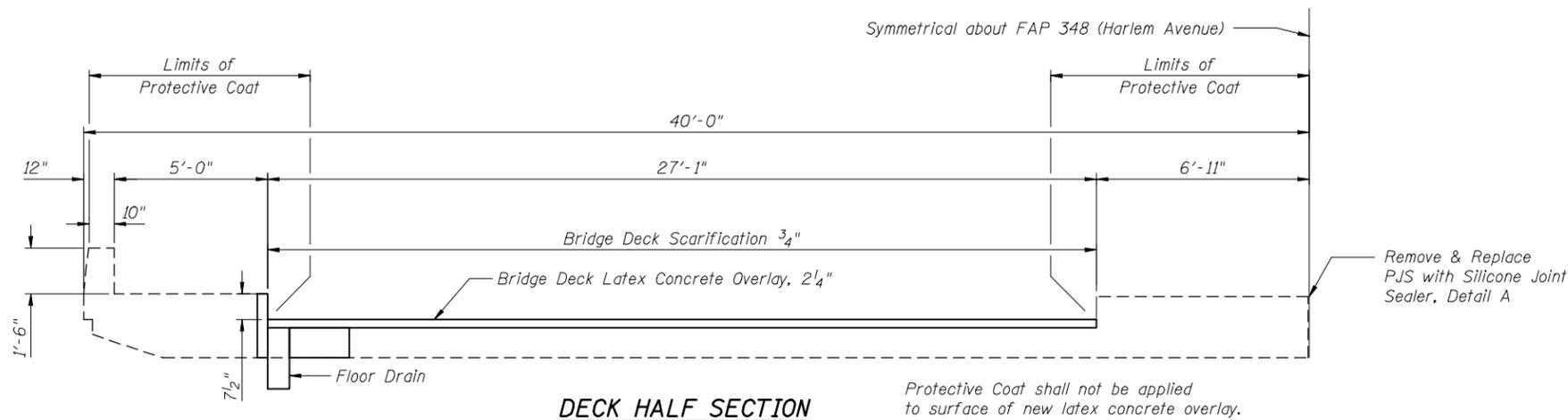
**DETAIL A
MEDIAN LONGITUDINAL JOINT**



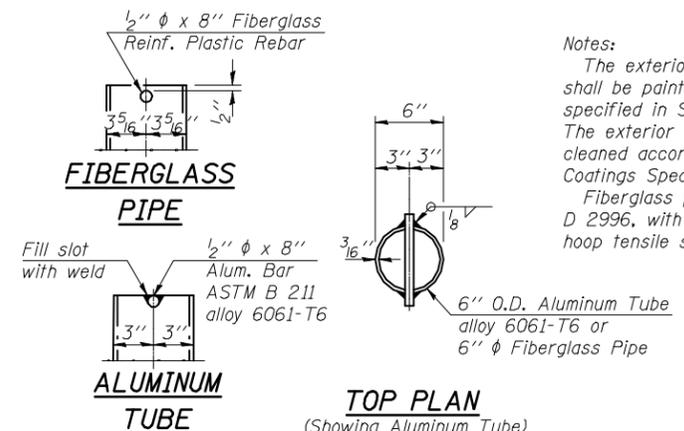
NOTES

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Care shall be taken during concrete removal for Full Depth Bridge Deck Repair, to preserve, clean and reuse existing reinforcing steel in bridge slab and face of curb. The cost of this work is included with Deck Slab Repair (Full Depth, Type II).

**DETAIL B
DRAIN PLAN**



DECK HALF SECTION



Notes:

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in Section 506 of the Std. Specs. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

**TOP PLAN
(Showing Aluminum Tube)**

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PLOT DATE = 3/27/2012	CHECKED - BJM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK AND APPROACH SLAB REPAIR DETAILS
STRUCTURE NO. 016-0963**

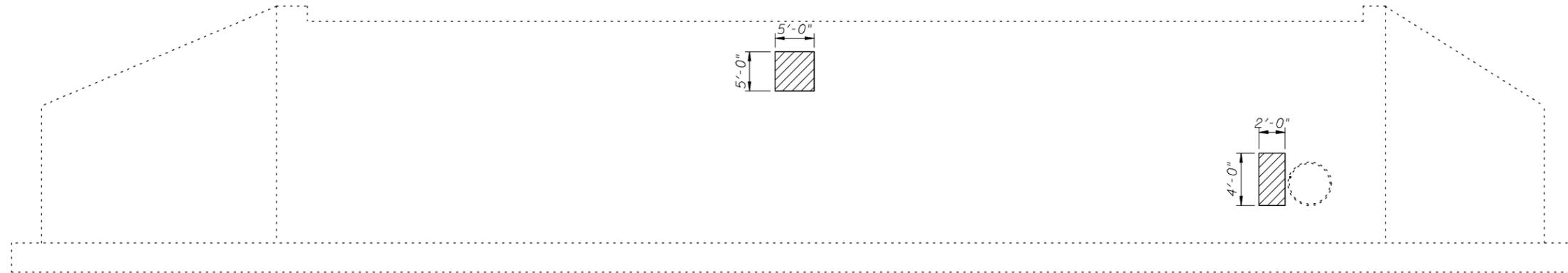
SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60M71				

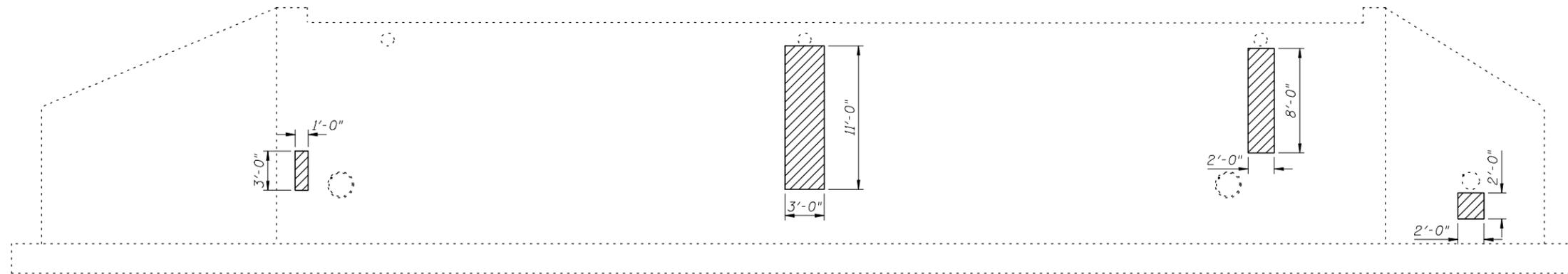
ILLINOIS FED. AID PROJECT



EAST RAILING ELEVATION



NORTH ABUTMENT ELEVATION



SOUTH ABUTMENT ELEVATION

NOTE

The limits and locations of repair shown on this sheet are taken from the most recent survey performed by the District in March 2009.

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	92

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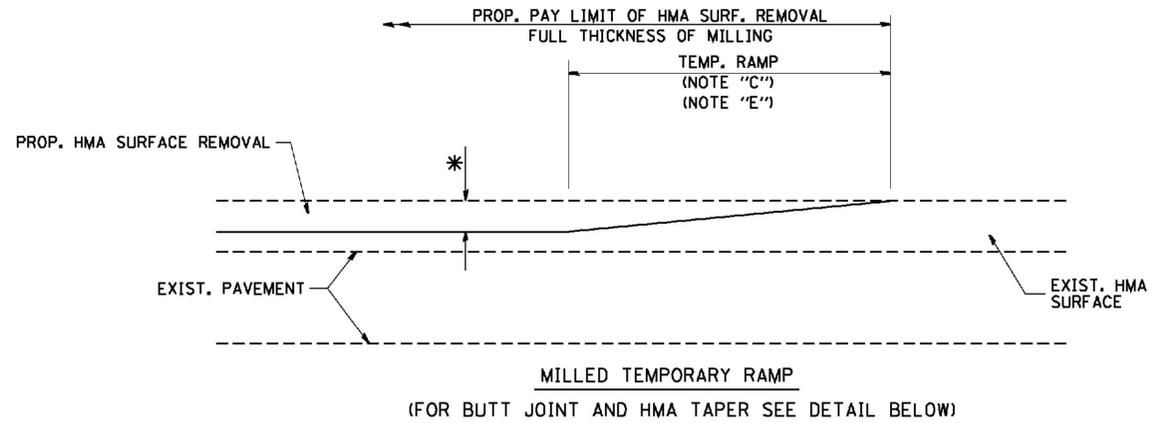
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE REPAIRS
STRUCTURE NO. 016-0963**

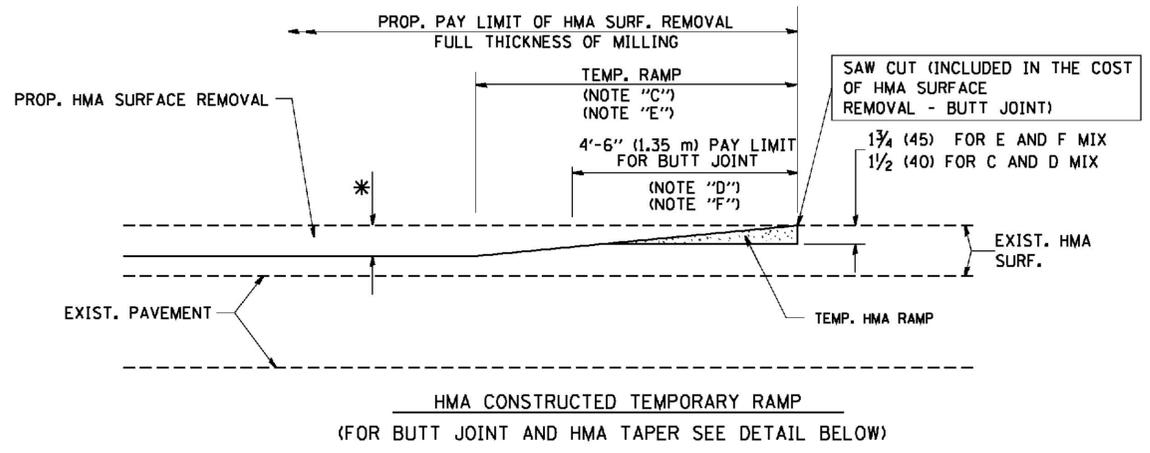
SHEET NO. 5 OF 5 SHEETS

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CONTRACT NO. 60M71				

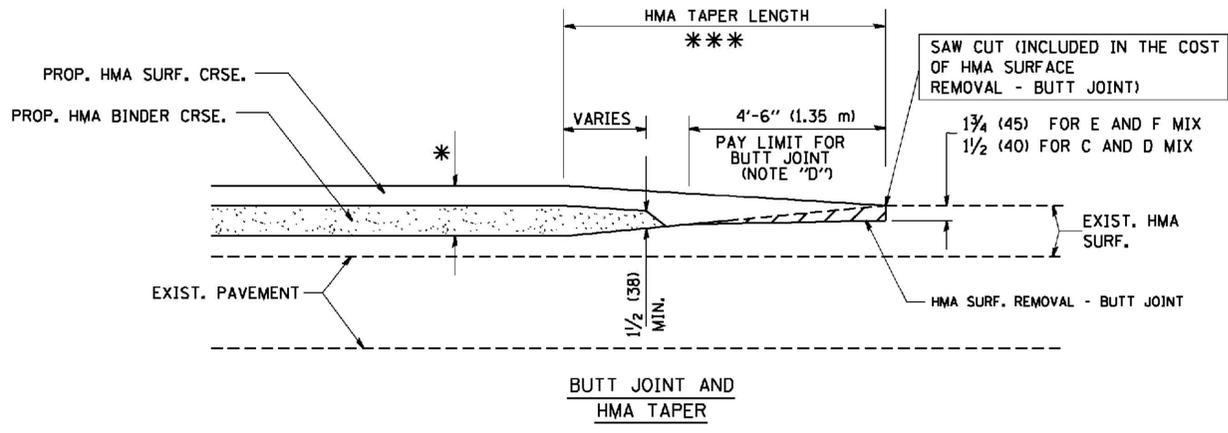
ILLINOIS FED. AID PROJECT



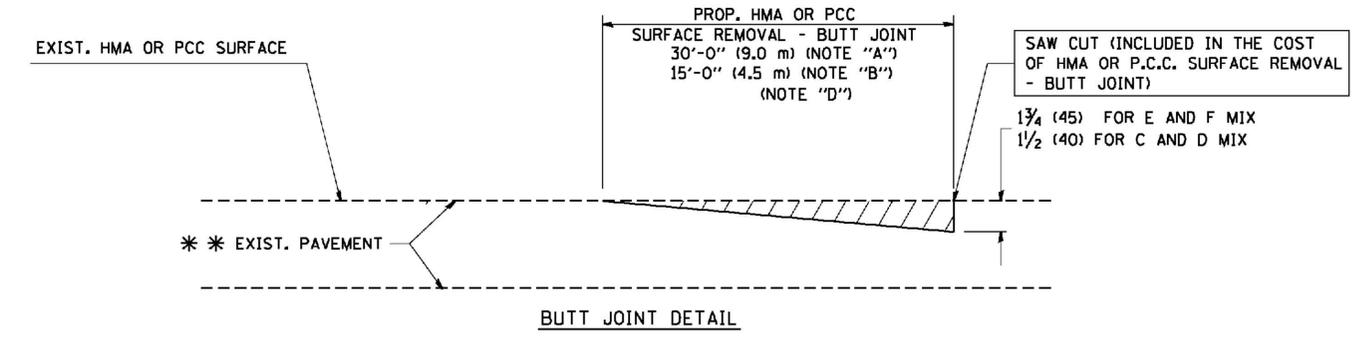
OPTION 1



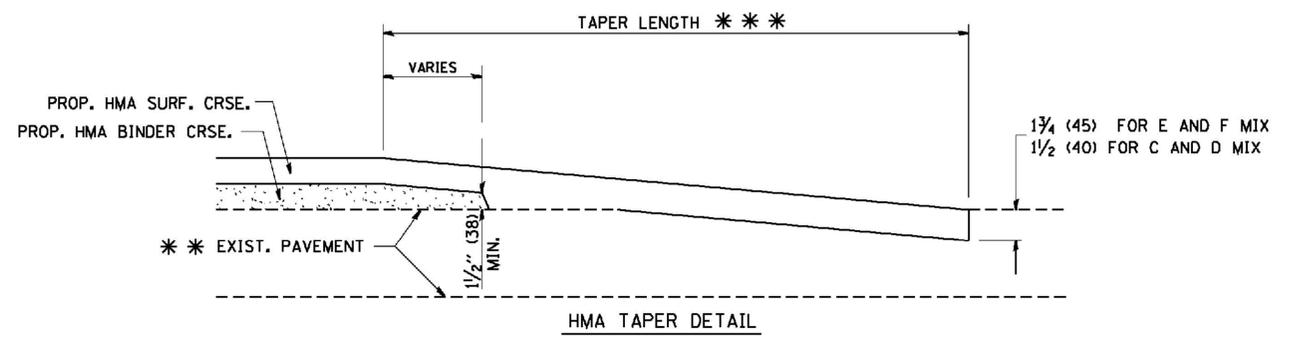
OPTION 2
TYPICAL TEMPORARY RAMP



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")

BASIS OF PAYMENT:

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

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

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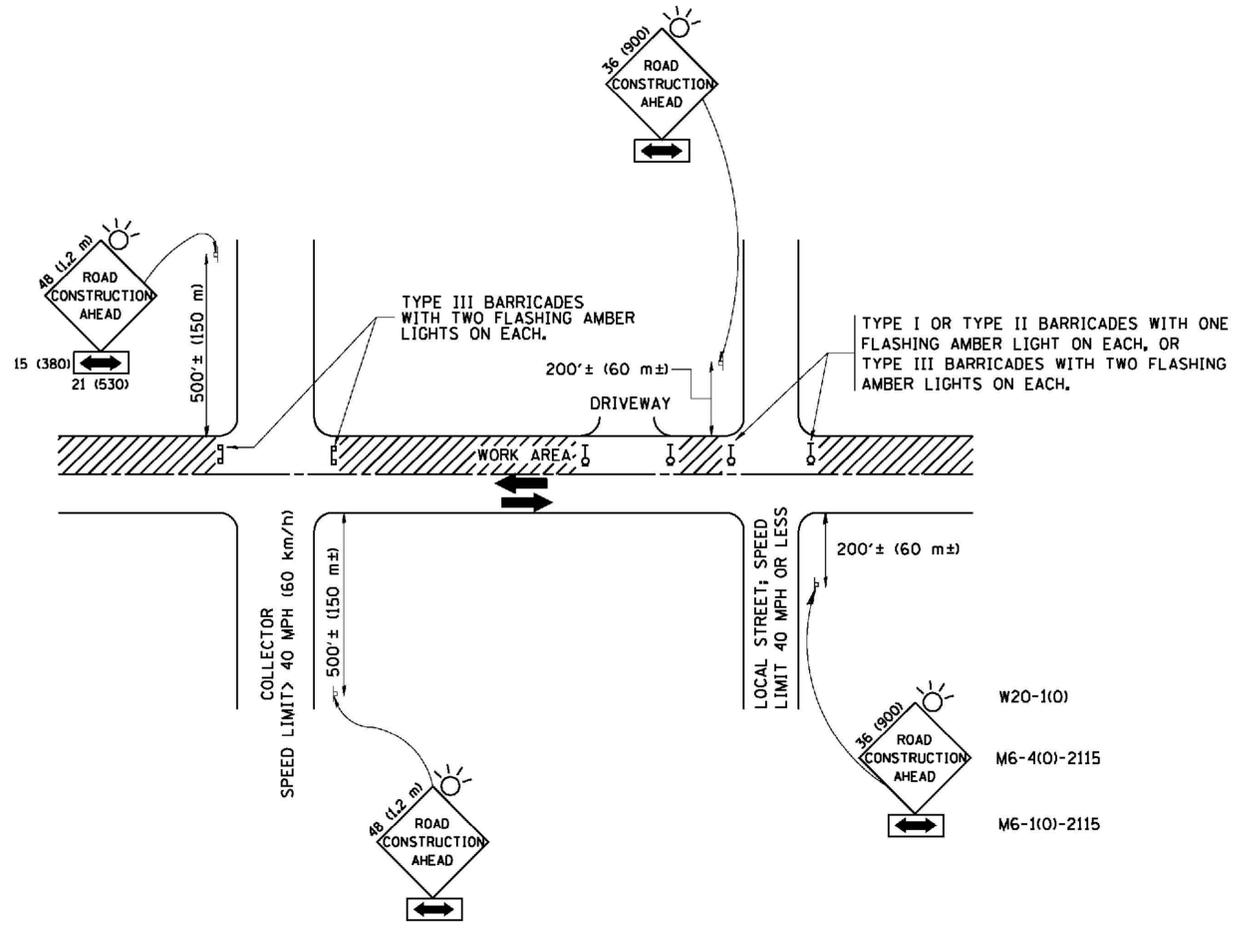
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	CHECKED - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	13
BD400-05 BD32			CONTRACT NO. 60M71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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



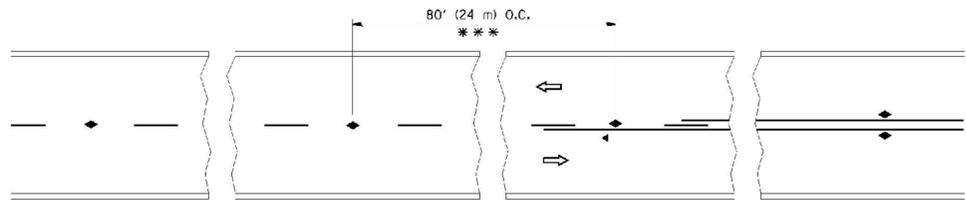
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

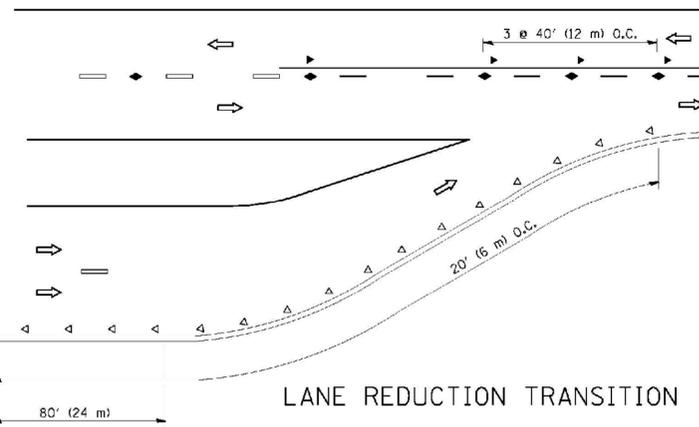
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TC-10			CONTRACT NO. 60M71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

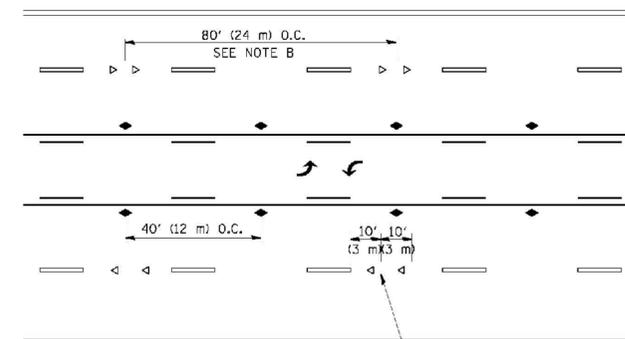


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

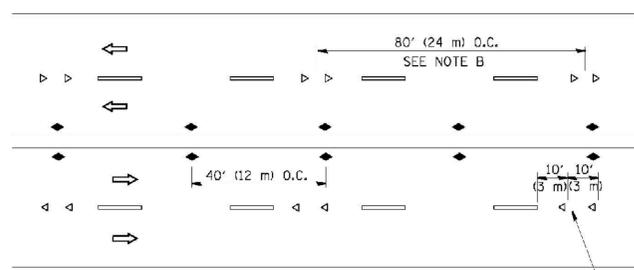
TWO-LANE/TWO-WAY



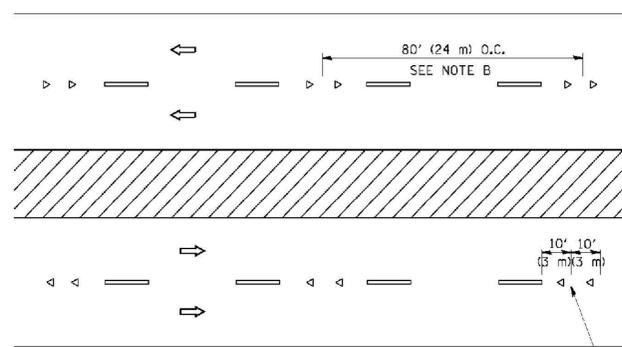
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

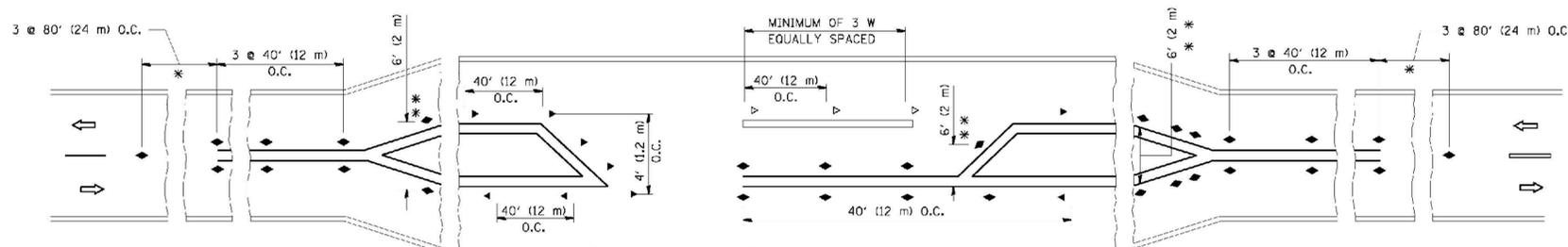
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

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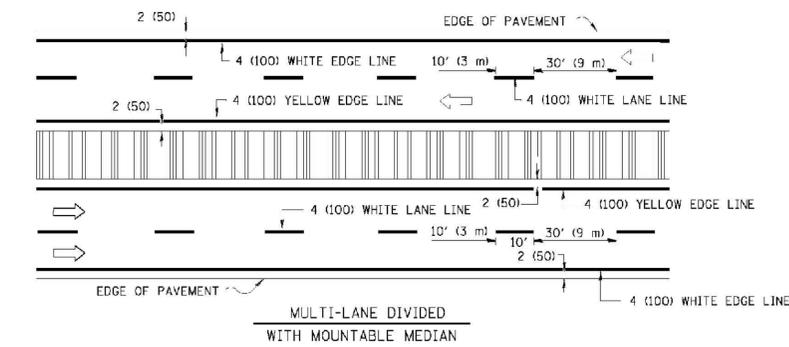
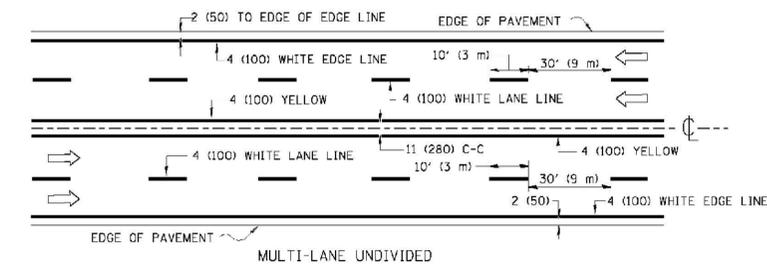
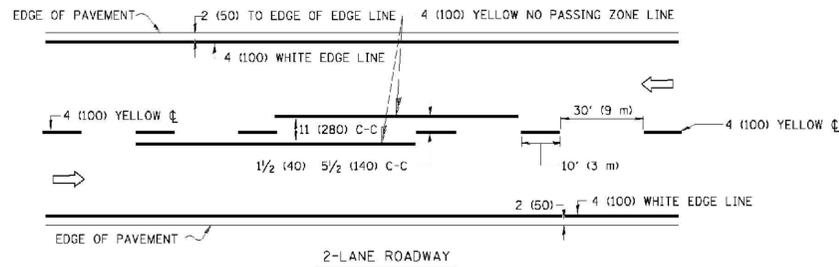
USER NAME = dmvknsgr	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED - T. RAMMACHER 03-12-99
PLOT DATE = 8/8/2007	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	CHECKED -	REVISED - C. JUXTUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

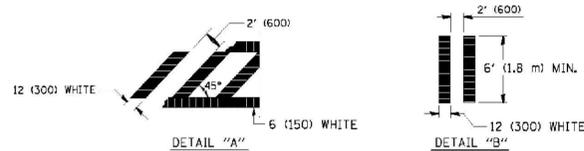
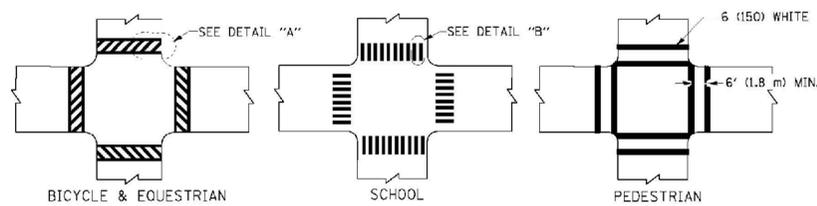
SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	15
TC-11		CONTRACT NO. 60M71		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

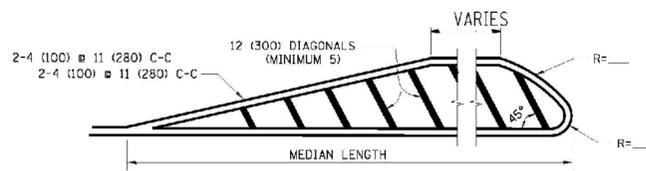
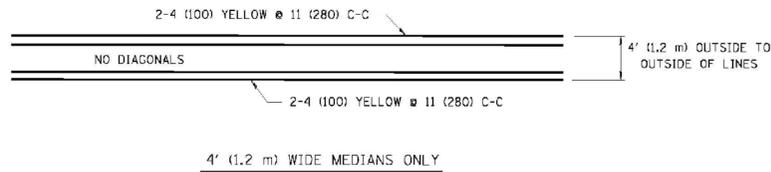


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



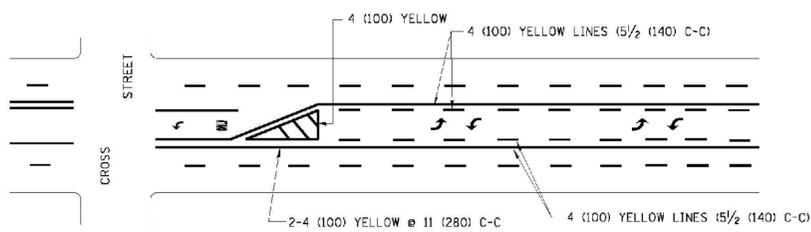
TYPICAL CROSSWALK MARKING



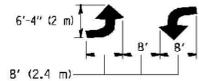
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

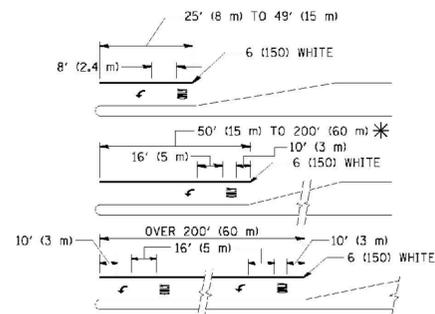


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

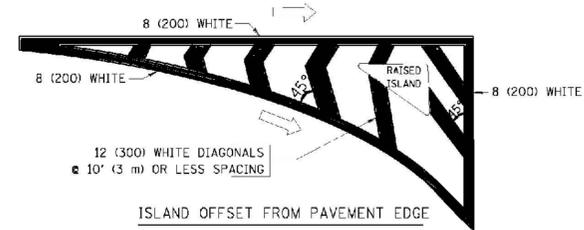


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

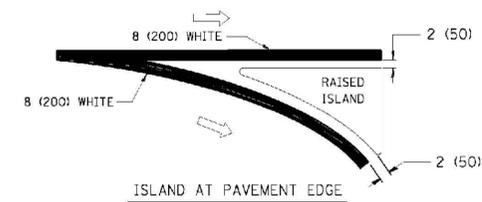
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



TYPICAL ISLAND MARKING

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

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

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

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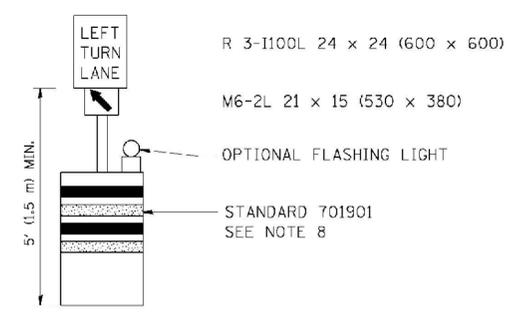
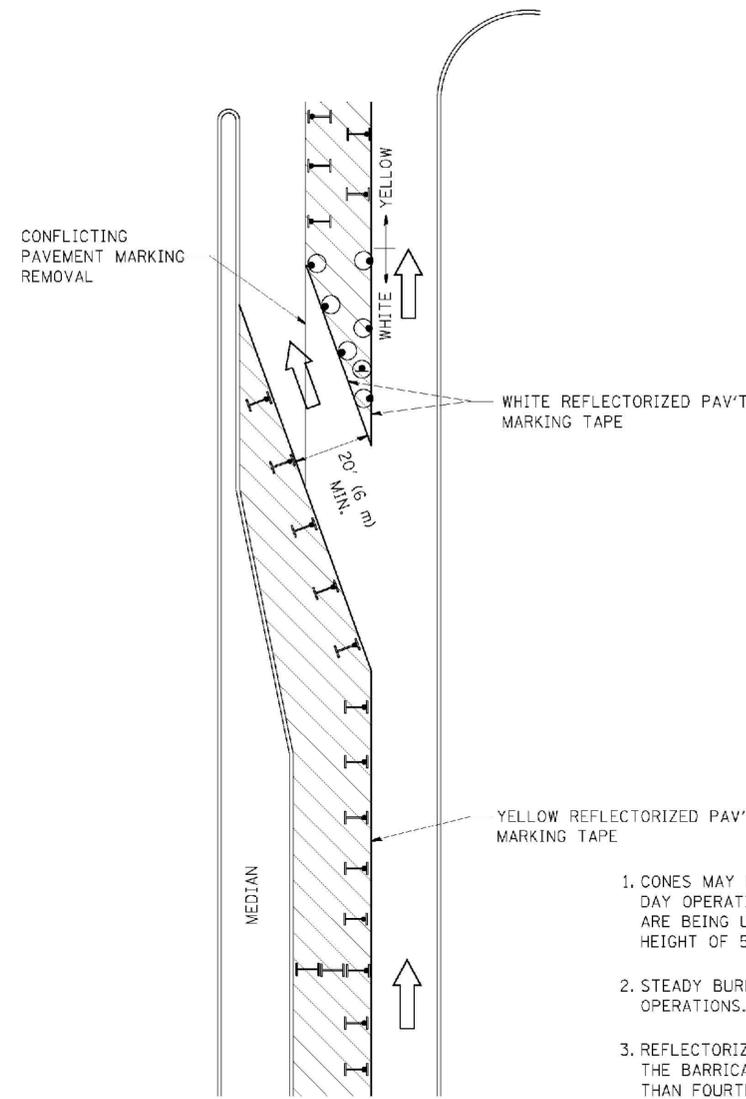


USER NAME = shivakosgi	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
PLOT SCALE = 53.300' / IN.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 8/8/2009	DRAWN -	REVISED -
	CHECKED - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		F.A.P. RTE. 348	SECTION 3127-2-SB-I	COUNTY COOK	TOTAL SHEETS 19	SHEET NO. 16
	SHEET NO. 1 OF 1 SHEETS		TC-13		CONTRACT NO. 60M71		
	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

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GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT



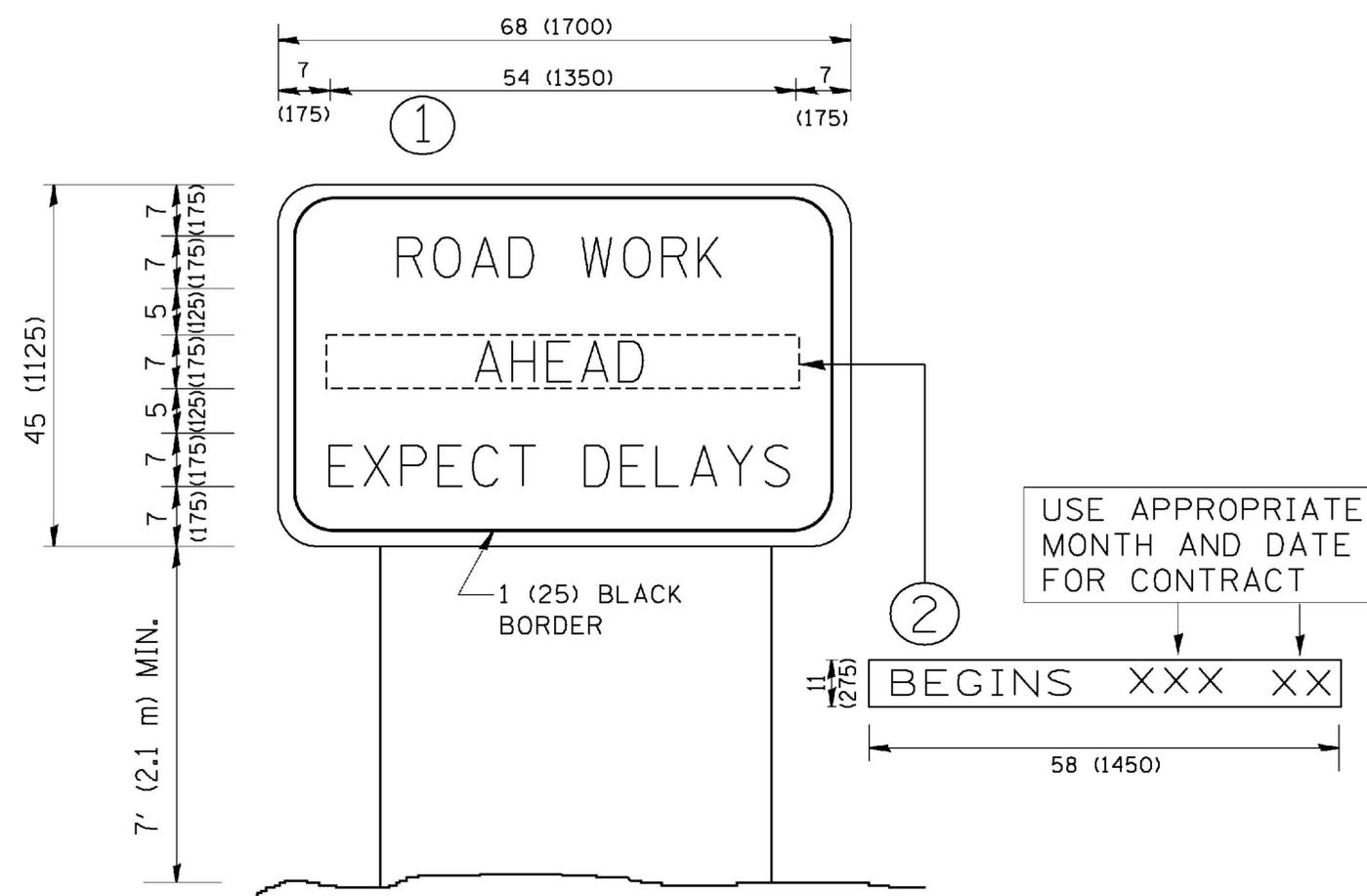
USER NAME = shiyakusugi	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
PLOT SCALE = 40,0000 1/4 IN.	CHECKED - A. HOUSEH 11-07-95	REVISED -
PLOT DATE = 8/28/2010	DRAWN - A. HOUSEH 10-12-96	REVISED -
	CHECKED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**
SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	17
TC-14			CONTRACT NO. 60M71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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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.

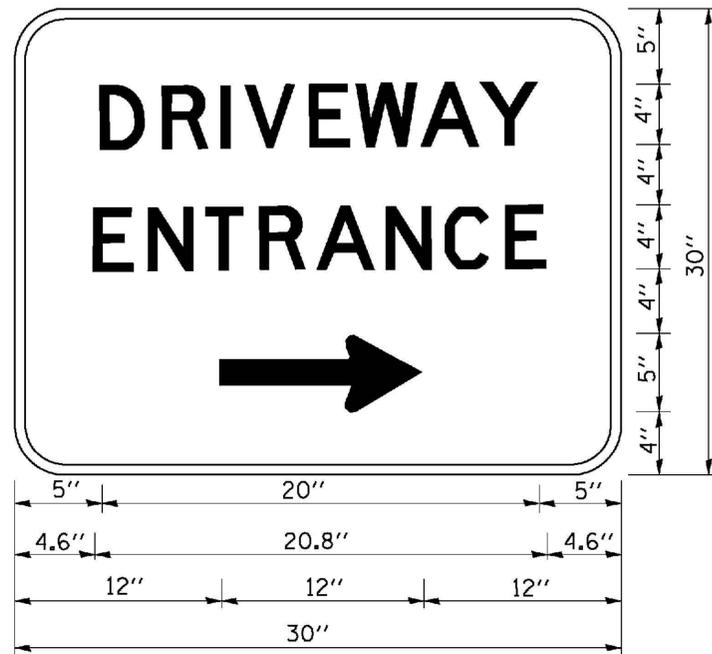


USER NAME = gagliano	DESIGNED -	REVISED - R. MIRS 09-15-97
	CHECKED -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 8/4/2011	CHECKED -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE	ARTERIAL ROAD INFORMATION SIGN
	SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	18
TC-22			CONTRACT NO. 60M71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	CHECKED -	REVISED -
PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -
PLOT DATE = 8/4/2010	CHECKED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3127-2-SB-I	COOK	19	19
TC-26			CONTRACT NO. 60M71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				