

F.A.U. RTE. 1594	SECTION 2016-027RS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 01
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62C82		

x39x1 = 40 total pages  
D-91-389-16

INDEX OF SHEETS 06-16-2017 LETTING ITEM 161

SHEET NO.	DESCRIPTION
01	COVER SHEET
02	IDOT HIGHWAY STANDARDS, GENERAL NOTES
03-08	SUMMARY OF QUANTITIES
09-10	TYPICAL SECTIONS
11-14	ROADWAY AND PAVEMENT MARKING
15-25	ADA RAMP DESIGN
26-26A	DETECTOR LOOP REPLACEMENT PLAN
27-39	DISTRICT STANDARDS

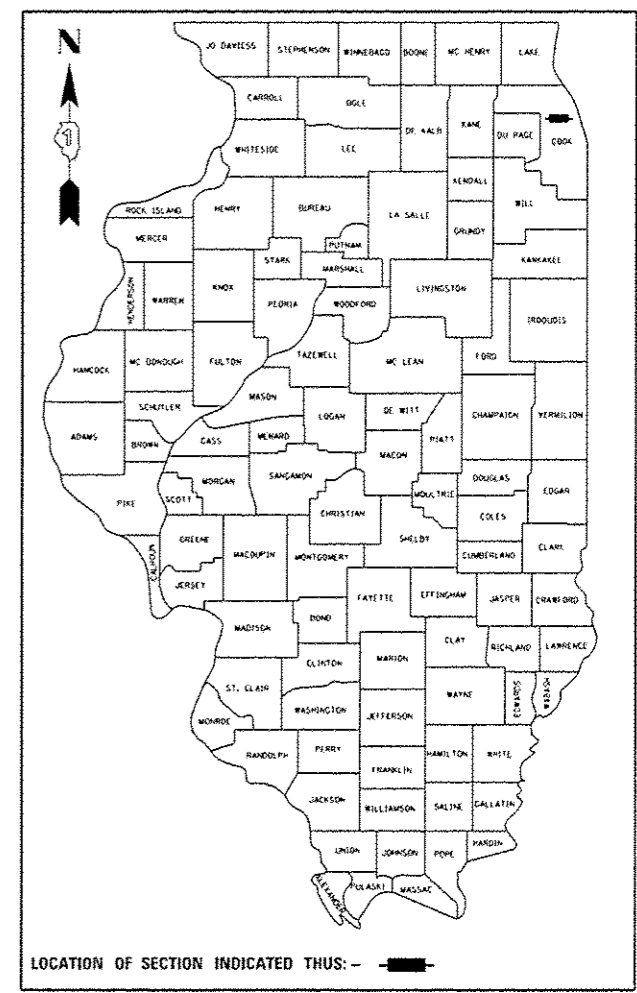
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

F.A.U. ROUTE 1594: (VERMONT ST)  
FRANCISCO AVE. TO IRVING AVE.

SECTION 2016-027RS  
PROJECT STP-1594(007)

RESURFACING (3P); PEDESTRIAN RAMPS  
COOK COUNTY  
C - 91 - 389 - 16



FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN  
THE CITY OF BLUE ISLAND

TRAFFIC DATA

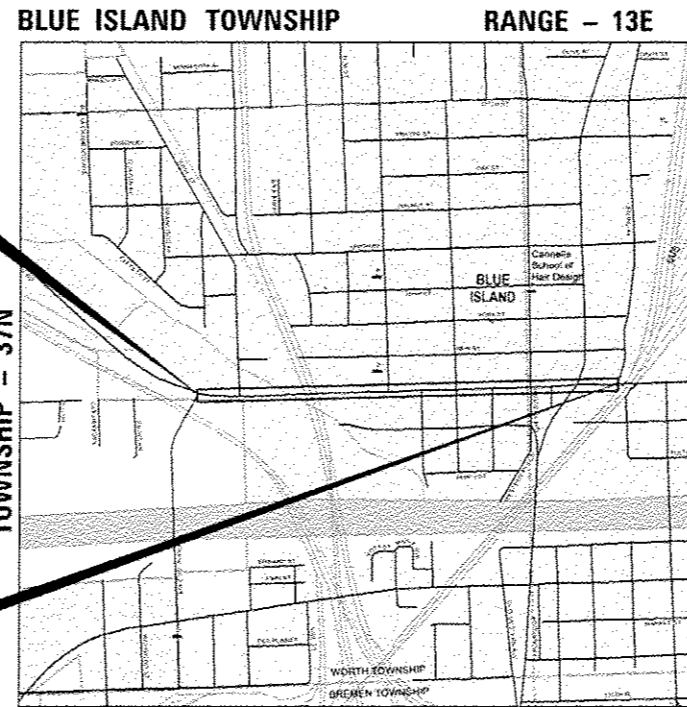
ADT (2015) = 13,300  
POSTED SPEED LIMIT = 30 MPH

BEGIN IMPROVEMENT  
STA 16+00

BRIDGE OMISSION  
STA. 24+94.50 TO STA. 26+20.50  
STA. 50+52.50 TO STA. 51+74.50

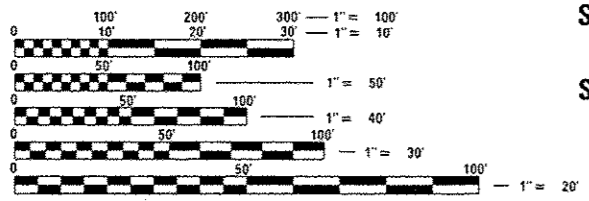
INTERSECTION OMISSION  
STA. 46+31.60 TO STA. 47+57.60

END IMPROVEMENT  
STA 54+40



LOCATION MAP  
NOT TO SCALE

GROSS LENGTH = 3835 FT. = 0.7 MI.  
NET LENGTH = 3835 FT. = 0.7 MI.



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 MANAGER: ISSAM RAYYAN, P.E. (847) 705-4178  
PROJECT ENGINEER: J. ALAIN MIDY, P.E. (847) 221-3056  
CONTRACT NO. 62C82



Jameel Ahmed 4/5/17  
DATE  
LICENSE EXPIRES ON 11/30/2017

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 4 2017  
Rashid J. Ruffalo REGIONAL ENGINEER

May 12 2017  
Maureen M. Addis, P.E. ENGINEER OF DESIGN AND ENVIRONMENT

May 12 2017  
Jameel Ahmed DIRECTOR OF PROGRAM DEVELOPMENT

**AES** AES Services, Inc.  
111 S. Wacker Drive, Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-003052

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

# HIGHWAY STANDARDS

## STANDARD NO DESCRIPTION

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-03	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
604001-04	FRAME AND LIDS TYPE 1
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN, LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES

## GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "TODD" AT 1-800-842-0173 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF BLUE ISLAND.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS, AND TIE BARS IN PAVEMENT, SHOULDERS, CURBS, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 40 MPH (60 KM/HR) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80KM/HR). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED.

ALL PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER

DRAINAGE AND UTILITY ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LIMITS OF PROPOSED CURB RAMP RECONSTRUCTION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, VIA EMAIL AT PATRICE.HARRIS@ILLINOIS.GOV TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

## GENERAL NOTES (CONT.)

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DETAILS AND DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (HIGH FLOW RESISTANT)" SHOWN ON THE PLANS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON FINAL SURFACES.

## ADA NOTES

PRIOR TO PLACING CONCRETE FOR DEPRESSED CURBS, RAMPS, OR SIDEWALKS THE CONTRACTOR SHALL VERIFY THAT LAYOUT OR DESIGN COMPLIES WITH THE REQUIREMENTS OF THE APPLICABLE HIGHWAY STANDARDS.

THE MAXIMUM ALLOWABLE RAMP RUNNING SLOPE IS 1:14, MEASURED AT ANY PORTION OF THE RAMP. THE MAXIMUM ALLOWABLE RAMP CROSS SLOPE IS 6:14, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED.

THE MAXIMUM ALLOWABLE RAMP LANDING SLOPE IS 1:64, MEASURED AT ANY LOCATION AND IN ANY DIRECTION ON THE LANDING. THE RAMP LANDING WIDTH SHALL MATCH THE FULL WIDTH OF THE RAMP FOR A MINIMUM UNOBSTRUCTED DEPTH OF 4'-0". RAMP LANDINGS SHALL BE PROVIDED AT THE TOP AND/OR BOTTOM OF RAMPS WHERE TURNING IS REQUIRED.

RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK. RAMP SIDE FLARES ARE NOT REQUIRED WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS LANDSCAPED OR IS OCCUPIED BY A BARRIER THAT BLOCKS PEDESTRIAN ACCESS. EXCEPTIONS TO THIS RULE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.


UTILITIES, SUCH AS LIGHT POLES, TRAFFIC POLES AND HYDRANTS, MAY BE LOCATED IN THE FLARE OF THE RAMP BUT ARE NOT ALLOWED ON THE RAMP SURFACE OR LANDING AREAS. EXISTING UTILITY STRUCTURE LIDS MAY REMAIN WITHIN THE FLARE OR ON THE SURFACE OF THE RAMP AS LONG AS NO VERTICAL LEVEL DIFFERENCES BETWEEN SURFACES ARE GREATER THAN 1/4".

ALTERATIONS SHALL NOT DECREASE THE ACCESSIBILITY TO EXISTING FACILITIES, SIDEWALKS LEADING TO EXISTING FACILITIES, OR DOOR OR GATE ACCESS POINTS TO FACILITIES. THE ELEVATION AT THE EXISTING PROPERTY LINE OR FACILITY ACCESS POINT SHALL BE MAINTAINED AT A MINIMUM. ANY ALTERATIONS ADJACENT TO OR AFFECTING A FACILITY ACCESS POINT SHALL RESULT IN IMPROVED ACCESS OR AT A MINIMUM A REPLICATION OF EXISTING CONDITIONS, INCLUDING SIDEWALK SLOPES AND SURFACE CONDITIONS. FACILITIES INCLUDE, BUT ARE NOT LIMITED TO PRIVATE BUSINESSES, PUBLIC BUILDINGS, RESIDENCES, BUS STOPS, PUBLIC BENCHES, PAY PHONES, AND PARKING METERS.

MINIMUM CROSSWALK WIDTH IS 6'-0". CROSSWALKS SHALL BE LOCATED AS SHOWN IN THE PLAN SHEETS DEPENDING ON THE TYPE OF CURB RAMP USED. BEYOND THE CURB FACE AT THE BASE OF CURB RAMPS, A CLEAR SPACE OF 4'-0" BY 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE STRIPES OF THE CROSSWALK (WHERE PROVIDED).

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### HIGHWAY STANDARDS, INDEX SHEETS AND GENERAL NOTES

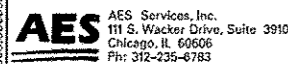
 AES Services, Inc. 111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783	USER NAME: Engineer	DESIGNED: JA	REVISED:	SCALE: SHEET OF SHEETS STA. TO STA.	F.A.U. RTE. 1594	SECTION 2016-02/RS	COUNTY COOK	TOTAL SHEETS 39	SHEET NO. 02	CONTRACT NO. 62C82
	PLOT SCALE: 1/4" = 1'-0"	DRAWN: TOM	REVISED:							
	PLOT DATE: 4/13/2017	CHECKED: JA	REVISED:							
		GATE: 4/13/2017	REVISED:	ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80/20 (FED/STATE)
				ROADWAY
				0005
				NONE
20200100	EARTH EXCAVATION	CU YD	53	53
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	170	170
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3
25200110	SODDING, SALT TOLERANT	SQ YD	170	170
25200200	SUPPLEMENTAL WATERING	UNIT	9	9
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9559	9559
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	10
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	794	794
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	202	202
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	566	566
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	236	236
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1190	1190
42001300	PROTECTIVE COAT	SQ YD	28	28

URBAN

\* SPECIALTY ITEMS

P:\066168805-12-PT1717-2014-WD12-Vermont St. Restor\Restor-62C82\08C00V08S\Sheet13\_62C82.dwg - 5/01/17



USER NAME = smohammed	DESIGNED - JA	REVISED - _____
PLOT SCALE = 2.0000' / 1"	DRAWN - TOM	REVISED - _____
PLOT DATE = 4/21/2017	CHECKED - JA	REVISED - _____
	DATE - 4/13/2017	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>	
<b>SHEET 1 OF 6</b>	
SCALE _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	03
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C82	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				40100 (FED STATE)	ROADWAY 0005 NONE
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	42	42	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	30	30	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4066	4066	
42400800	DETECTABLE WARNINGS	SO FT	311	311	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	11932	11932	
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	180	180	
44000600	SIDEWALK REMOVAL	SO FT	4095	4095	
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SO YD	1053	1053	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	234	234	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	351	351	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	468	468	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	10	10	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	9	9	
60255500	MANHOLES TO BE ADJUSTED	EACH	11	11	

URBAN

\* SPECIALTY ITEMS

14



USER NAME	DESIGNED - JA	REVISED
DRAWN - TOM	CHECKED - JA	REVISED
DATE - 4/13/2017		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES SHEET 2 OF 6				
SCALE	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	04
CONTRACT NO. 62C82				

P:\62C82\027RS\177-027-024-0012-Vermont-St-Resurfacing-62C82-000001-000-see-14-82C82-14-11-17-5012.dwg

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				RD/ST	(FEB/STATE)
				ROADWAY	
				0005	
				NONE	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	7	7	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	36	36	
60600605	CONCRETE CURB, TYPE B	FOOT	504	504	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	6	6	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	LSUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1536	1536	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	453	453	

URBAN

14

\* SPECIALTY ITEMS



USER NAME	DESIGNED	REVISIONS
CHECKED	DATE	

DESIGNED	REVISIONS
CHECKED	REVISIONS
DATE	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
-------	-------	----	--------	------	----	------

**SUMMARY OF QUANTITIES  
SHEET 3 OF 6**

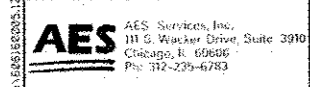
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-02785	COOK	39	05
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80/20 (FED/STATE) ROADWAY 0005 NONE
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	50 FT	240	240
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7530	7530
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1096	1096
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	176	176
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	163	163
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	7534	7534
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1630	1630
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	226	226
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7530	7530
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1096	1096
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	176	176
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	169	169
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	143	143
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	143	143

URBAN

\* SPECIALTY ITEMS

14



USER NAME : tmohamed	DESIGNED - JA	REVISED -
PLOT SCALE = 2.0000 1" = 40'	DRAWN - TOM	REVISED -
PLOT DATE = 4/13/2017	CHECKED - JA	REVISED -
	DATE - 4/13/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES SHEET 4 OF 6</b>			
SCALE	SHEET	OF	SHEETS
			STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	06
CONTRACT NO. 62CB2				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTR. CODE
				80/80 (FED/STATE) ROADWAY 0005 NONE
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	400	400
* 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	50 YD	85	85
Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	50 YD	23	23
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	337	337
□ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	30	30
Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	102.8	102.8
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	50 FT	488	488
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	50 YD	910	910
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	50 YD	1596	1596
□ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	300	300

\* SPECIALTY ITEMS  
□ NON PARTICIPATING

**AES** Services, Inc.  
111 S. Wacker Drive, Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME : tmohammed	DESIGNED : JA	REVISED : -
PLLOT SCALE : 2.0000 1/1 in.	DRAWN : TOM	REVISED : -
PLDT DATE : 4/13/2017	CHECKED : JA	REVISED : -
	DATE : 4/13/2017	REVISED : -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

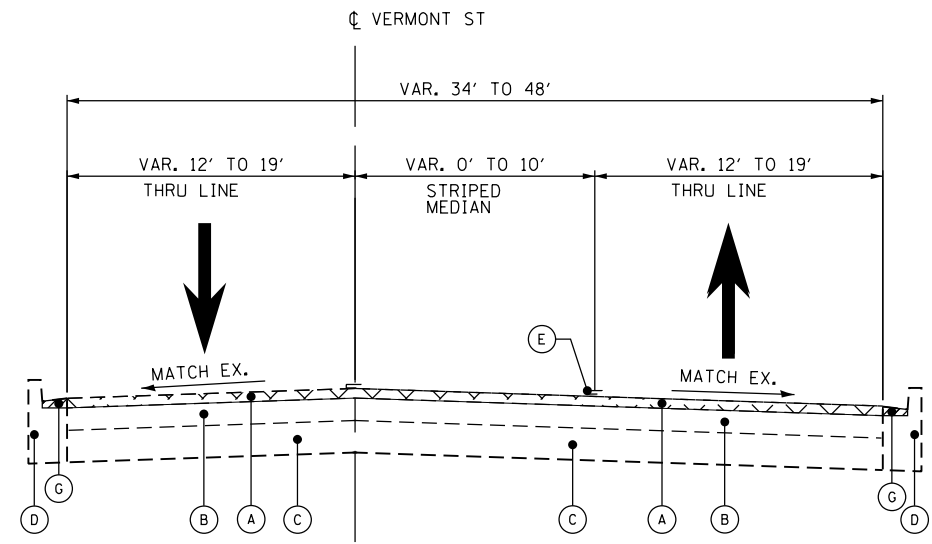
SUMMARY OF QUANTITIES	
SHEET 5 OF 6	
SCALE	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	07
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C82	

REV

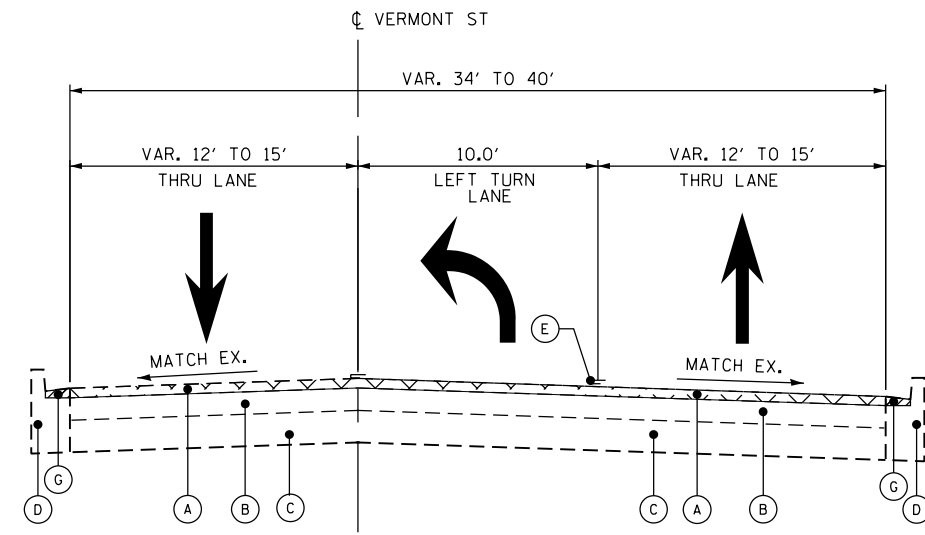






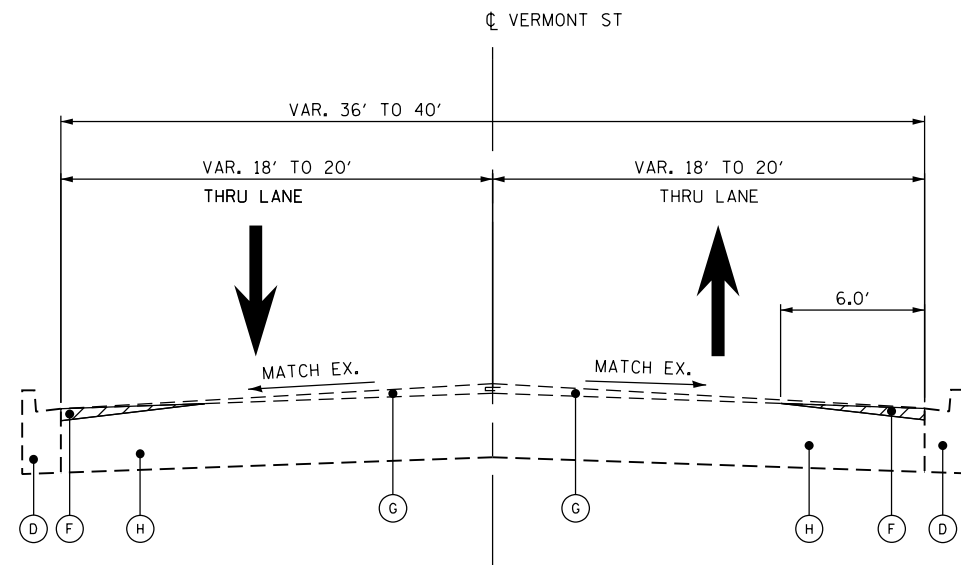
**EXISTING TYPICAL CROSS SECTION**

STA. 16+00.00 TO STA. 17+15.00  
 STA. 20+00.00 TO STA. 24+94.50  
 STA. 26+20.50 TO STA. 31+82.80  
 STA. 33+73.00 TO STA. 43+50.00



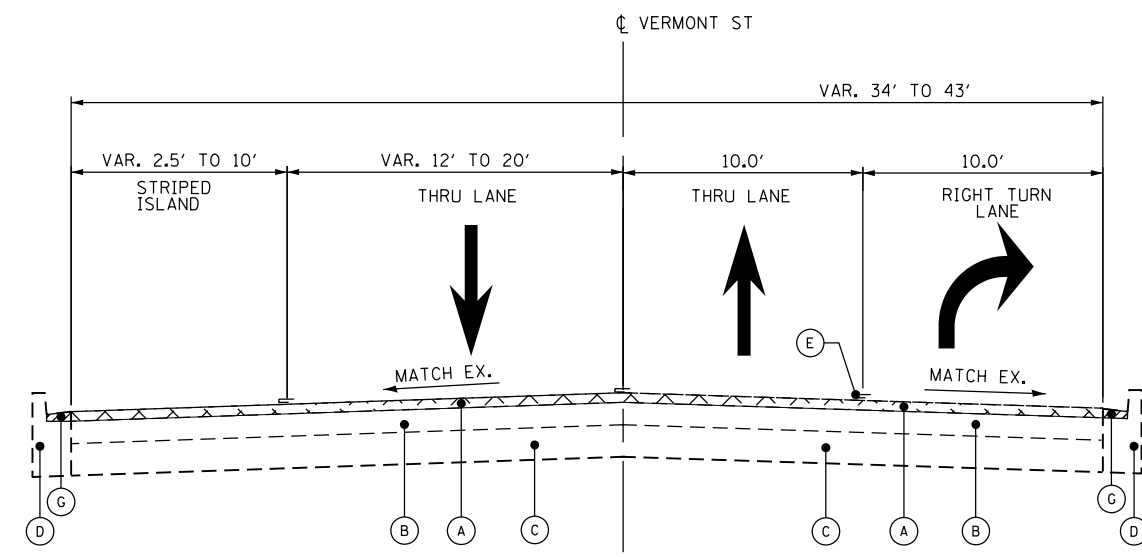
**EXISTING TYPICAL CROSS SECTION**

STA. 17+15.00 TO STA. 20+00.00  
 STA. 31+82.80 TO STA. 33+73.00



**EXISTING TYPICAL CROSS SECTION**

STA. 47+57.60 TO STA. 50+52.50  
 STA. 51+74.50 TO STA. 54+40.00



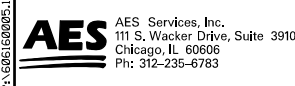
**EXISTING TYPICAL CROSS SECTION**

STA. 43+50.00 TO STA. 46+31.60

**EXISTING CONDITIONS**

- (A) HOT MIX ASPHALT SURFACE REMOVAL 2 1/2"
- (B) EXISTING HMA BASE COURSE ± 4"
- (C) EXISTING PCC BASE COURSE
- (D) COMBINATION CURB & GUTTER TO REMAIN
- (E) EXISTING PAVEMENT MARKING
- (F) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VAR. DEPTH)
- (G) HMA SURFACE REMOVAL, VARIABLE DEPTH
- (H) EXISTING PCC PAVEMENT

P:\606162005\12-PTB177-2004\_M012-Vermont\_St\_Renov\Drawings\2016\027R5\9.62682-shr-typicals.dgn

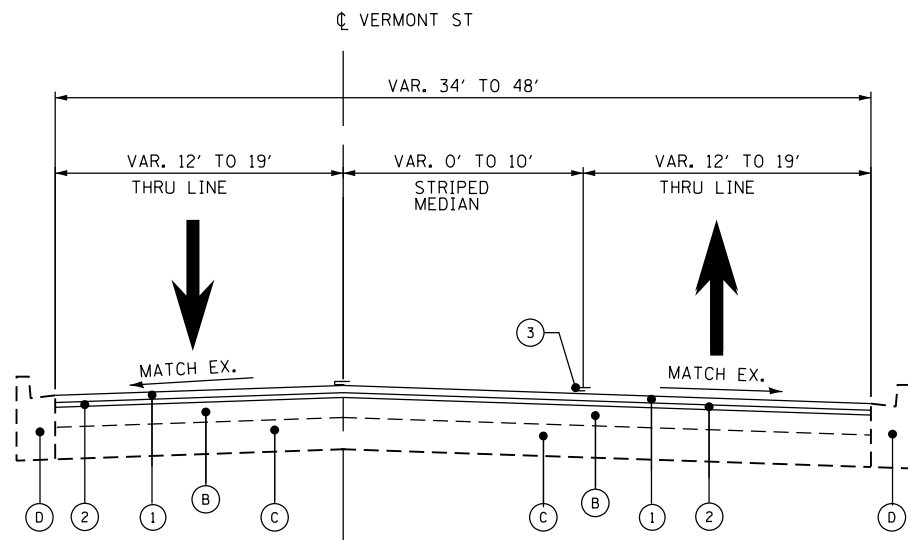


USER NAME = tmohammed	DESIGNED - JA	REVISED - _____
DRAWN - TOM	REVISOR - _____	
PLOT SCALE = 8.0000' / in.	CHECKED - JA	REVISOR - _____
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISOR - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

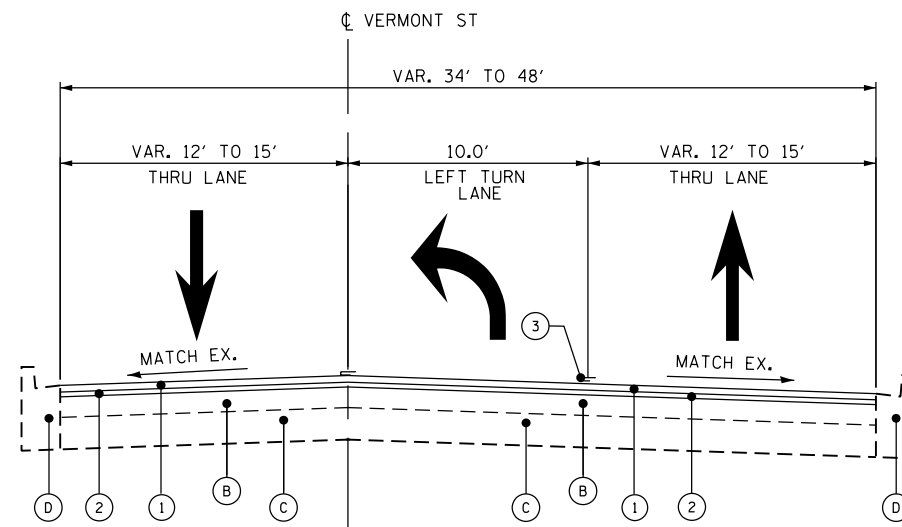
EXISTING TYPICAL SECTIONS	
SCALE _____	SHEET _____ OF _____ SHEETS
STA. _____ TO STA. _____	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	9
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



**PROPOSED TYPICAL CROSS SECTION**

STA. 16+00.00 TO STA. 17+15.00  
 STA. 20+00.00 TO STA. 24+94.50  
 STA. 26+20.50 TO STA. 31+82.80  
 STA. 33+73.00 TO STA. 43+50.00



**PROPOSED TYPICAL CROSS SECTION**

STA. 17+15.00 TO STA. 20+00.00  
 STA. 31+82.80 TO STA. 33+73.00

**EXISTING CONDITIONS**

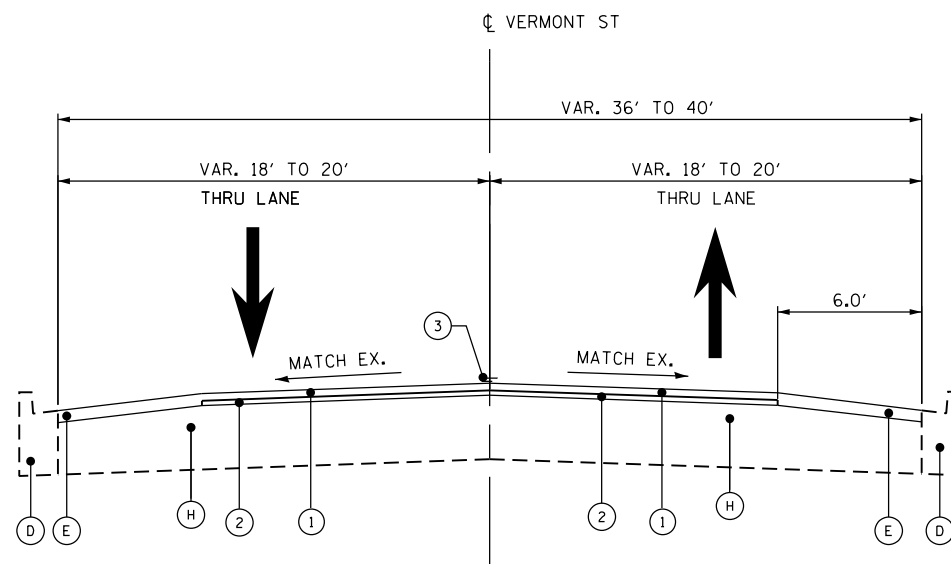
- (A) HOT MIX ASPHALT SURFACE REMOVAL 2 1/2"
- (B) EXISTING HMA BASE COURSE ± 4"
- (C) EXISTING PCC BASE COURSE
- (D) COMBINATION CURB & GUTTER TO REMAIN
- (E) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH
- (F) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH)
- (G) HMA SURFACE REMOVAL, VARIABLE DEPTH
- (H) EXISTING PCC PAVEMENT

**PROPOSED CONDITIONS**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM), 1 1/2"
- (2) POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50, 1"
- (3) THERMOPLASTIC PAVEMENT MARKING

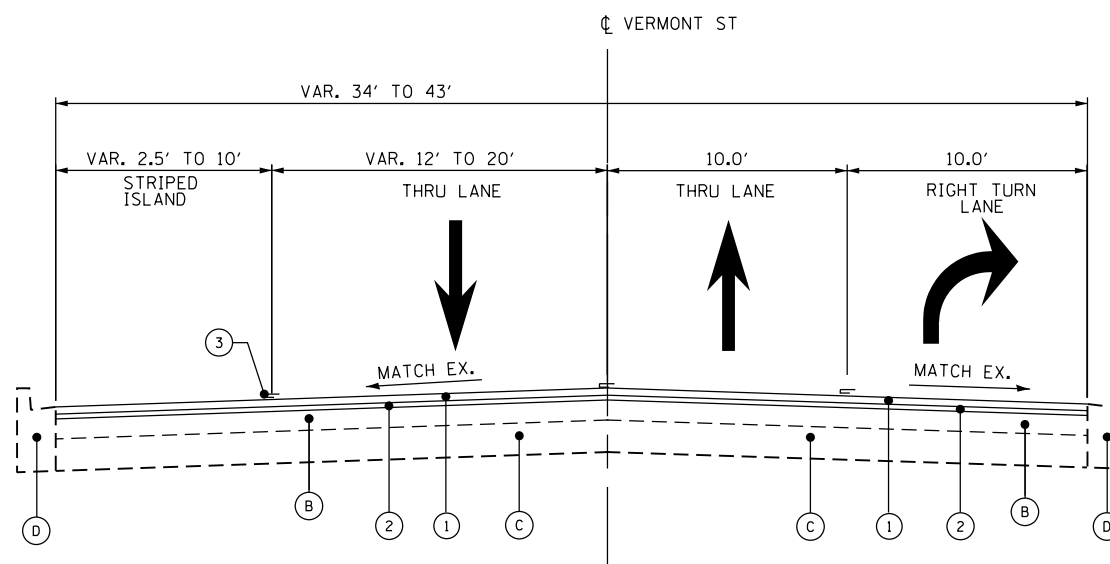
**HMA MIXTURE REQUIREMENTS**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ NDES	OMP
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM)	4% @ 70 GYR.	QC/OA
POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50	3.5% @ 50 GYR.	QC/OA
<b>PAVEMENT PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19 MM)	4.0% @ 70 GYR.	QC/OA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)	4.0% @ 70 GYR.	QC/OA
<b>HMA DRIVEWAY (PRIVATE ENTRANCE) 8"</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM) 2"	4% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19 MM)	4% @ 50 GYR.	QC/OA
<b>HMA DRIVEWAY (COMMERCIAL ENTRANCE) 10"</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM) 2"	4% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19 MM)	4% @ 50 GYR.	QC/OA
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA): QUALITY FOR PERFORMANCE		



**PROPOSED TYPICAL CROSS SECTION**

STA. 47+57.60 TO STA. 50+52.50  
 STA. 51+74.50 TO STA. 54+40.00



**PROPOSED TYPICAL CROSS SECTION**

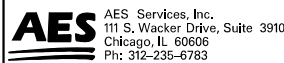
STA. 43+50.00 TO STA. 46+31.60

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/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 USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**NOTE:**  
**CONTRACTOR SHALL PATCH FIRST BEFORE MILLING**

P:\60616005\12-PTB177-2004-WD12-Vermont St. Repair\Drawings\62C82\Sheet\10\_62C82-ah-typical2.dgn



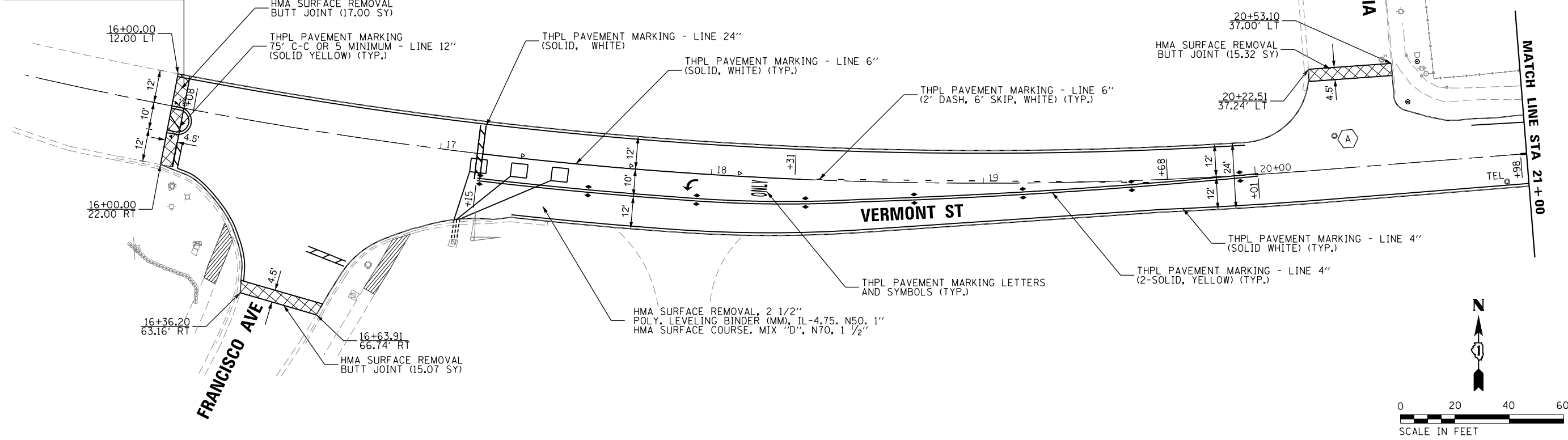
USER NAME = tmohammed	DESIGNED - JA	REVISED - _____
DRAWN - TOM	REVISIONS - _____	
PLOT SCALE = 8.0000' / in.	CHECKED - JA	REVISIONS - _____
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISIONS - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TYPICAL SECTIONS</b>	
SCALE _____	SHEET _____ OF _____ SHEETS
STA. _____ TO STA. _____	

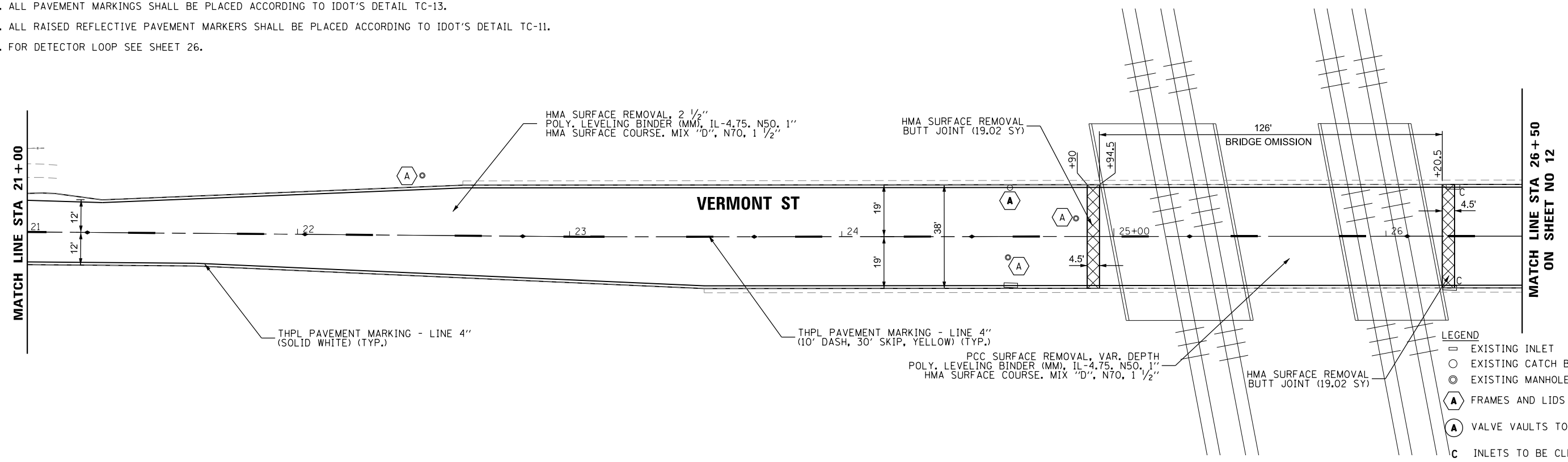
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	10
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

**PROJECT BEGINS  
STA. 16 + 00.00**



**NOTES:**

1. REFER TO ADA RAMP ELEVATION PLAN SHEETS FOR PROPOSED ADA RAMP, SIDEWALK LAYOUT AND ELEVATIONS.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-13.
3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-11.
4. FOR DETECTOR LOOP SEE SHEET 26.



P:\606162005\12-PTB177-2004\_MOT12-Vermont St Repair\Drawings\62C82-sh1-plan01.dgn

**AES** Services, Inc.  
111 S. Wacker Drive, Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

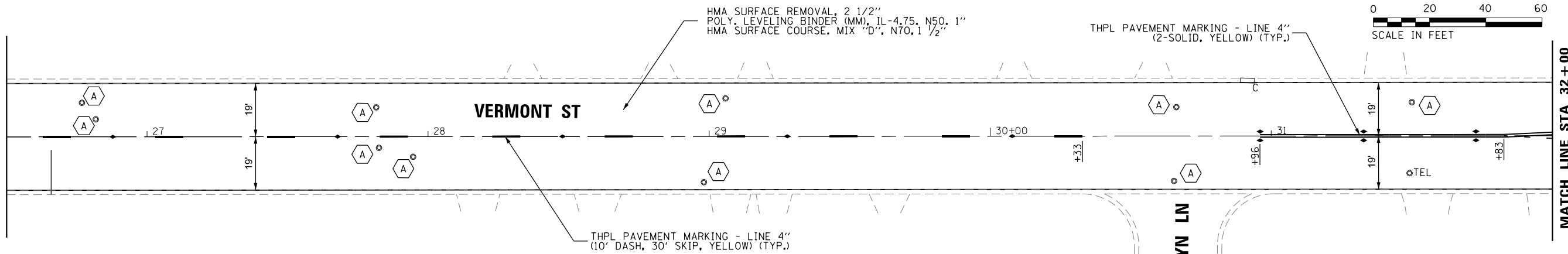
**VERMONT STREET FROM FRANCISCO AVE TO IRVING AVE**

SCALE      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	11
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 26+50  
ON SHEET NO 11



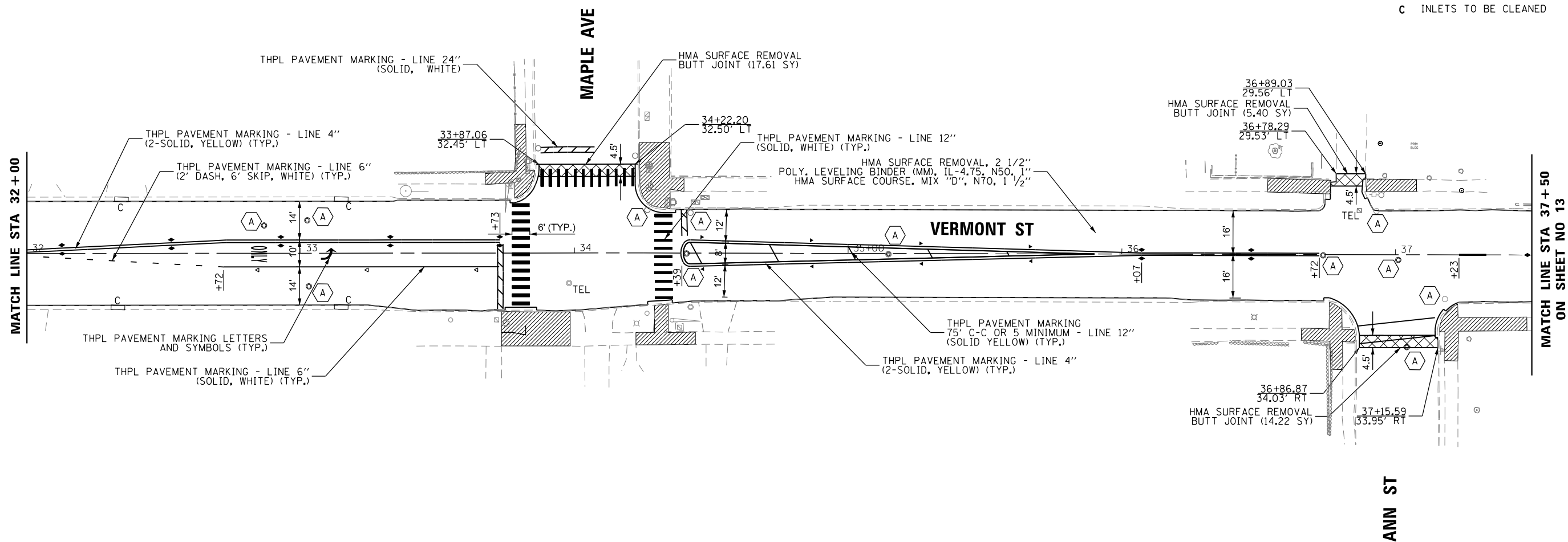
MATCH LINE STA 32+00

**NOTES:**

1. REFER TO ADA RAMP ELEVATION PLAN SHEETS FOR PROPOSED ADA RAMP, SIDEWALK LAYOUT AND ELEVATIONS.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-13.
3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-11.

**LEGEND**

- EXISTING INLET
- EXISTING CATCH BASIN
- ⊙ EXISTING MANHOLE
- Ⓐ FRAMES AND LIDS TO BE ADJUSTED
- ⓐ VALVE VAULTS TO BE ADJUSTED
- C INLETS TO BE CLEANED



MATCH LINE STA 32+00

MATCH LINE STA 37+50  
ON SHEET NO 13

ANN ST

P:\606162005\12-PTB177-004-WD12-Vermont St Repair\Drawings\62C82-ah1-plan2.dgn

**AES** Services, Inc.  
111 S. Wacker Drive, Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

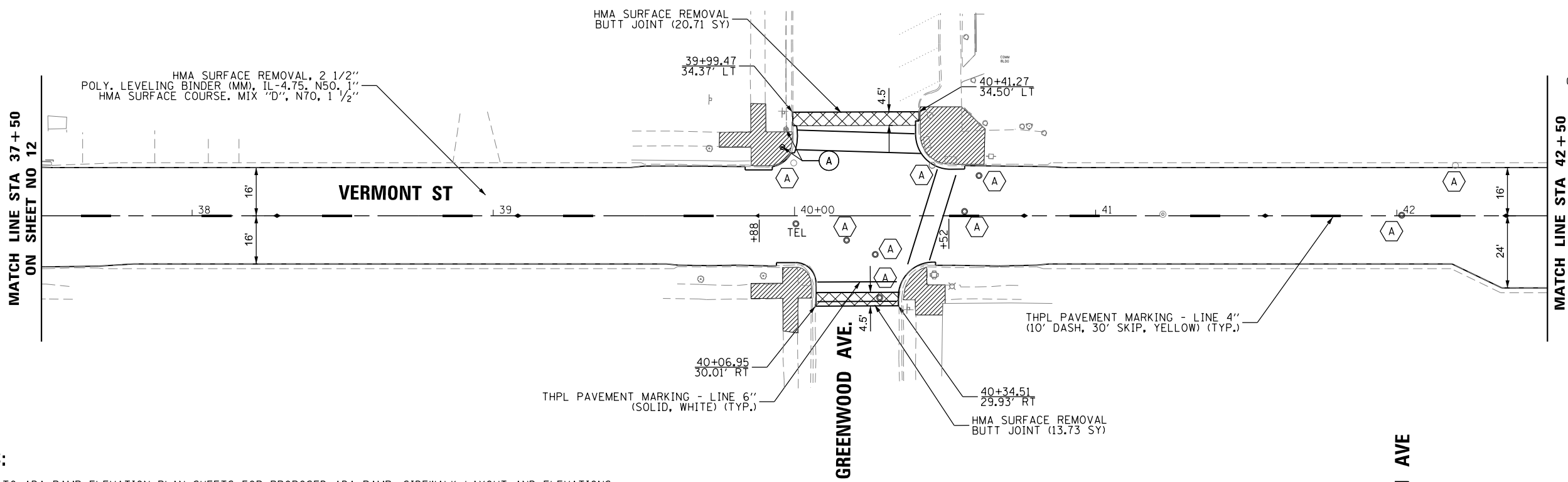
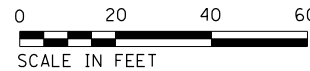
USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VERMONT STREET FROM FRANCISCO AVE TO IRVING AVE**

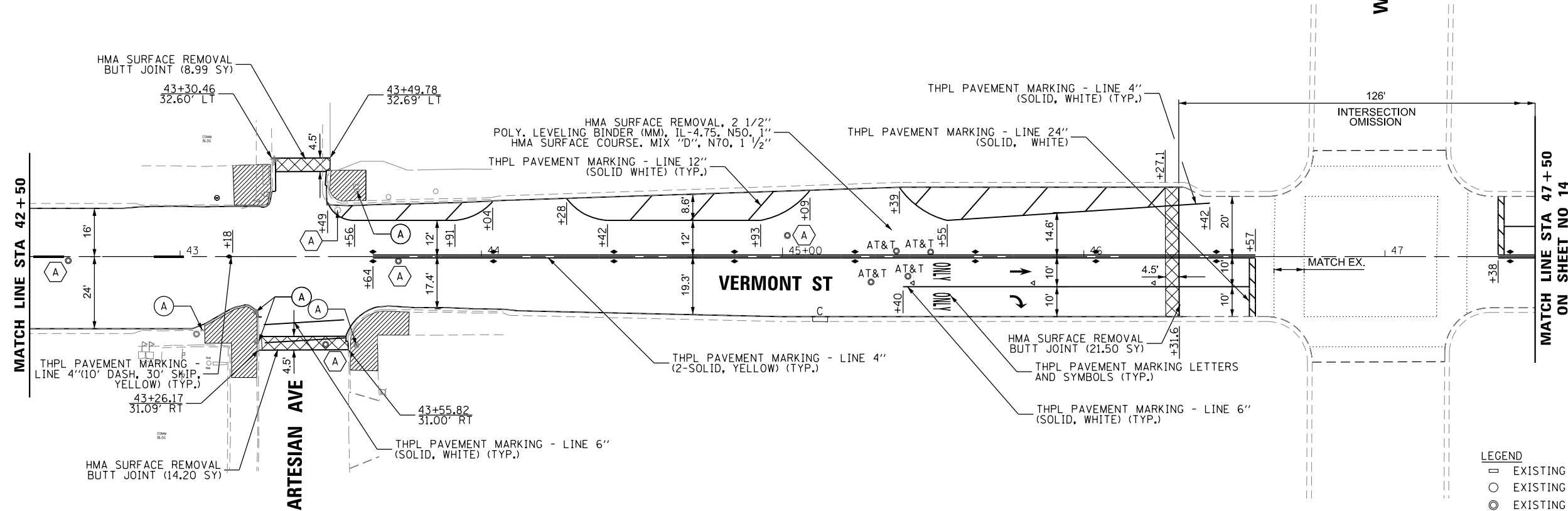
SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
-------	-------	----	--------	------	----	------

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	12
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. REFER TO ADA RAMP ELEVATION PLAN SHEETS FOR PROPOSED ADA RAMP, SIDEWALK LAYOUT AND ELEVATIONS.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-13.
3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-11.



- LEGEND**
- EXISTING INLET
  - EXISTING CATCH BASIN
  - EXISTING MANHOLE
  - ⬢ (A) FRAMES AND LIDS TO BE ADJUSTED
  - ⬢ (A) VALVE VAULTS TO BE ADJUSTED
  - C INLETS TO BE CLEANED

P:\606162005\12-PTB177-004\_M012-Vermont St Repair\Drawings\62C82-Sub-Plan03.dgn

**AES** Services, Inc.  
 111 S. Wacker Drive, Suite 3910  
 Chicago, IL 60606  
 Ph: 312-235-6783

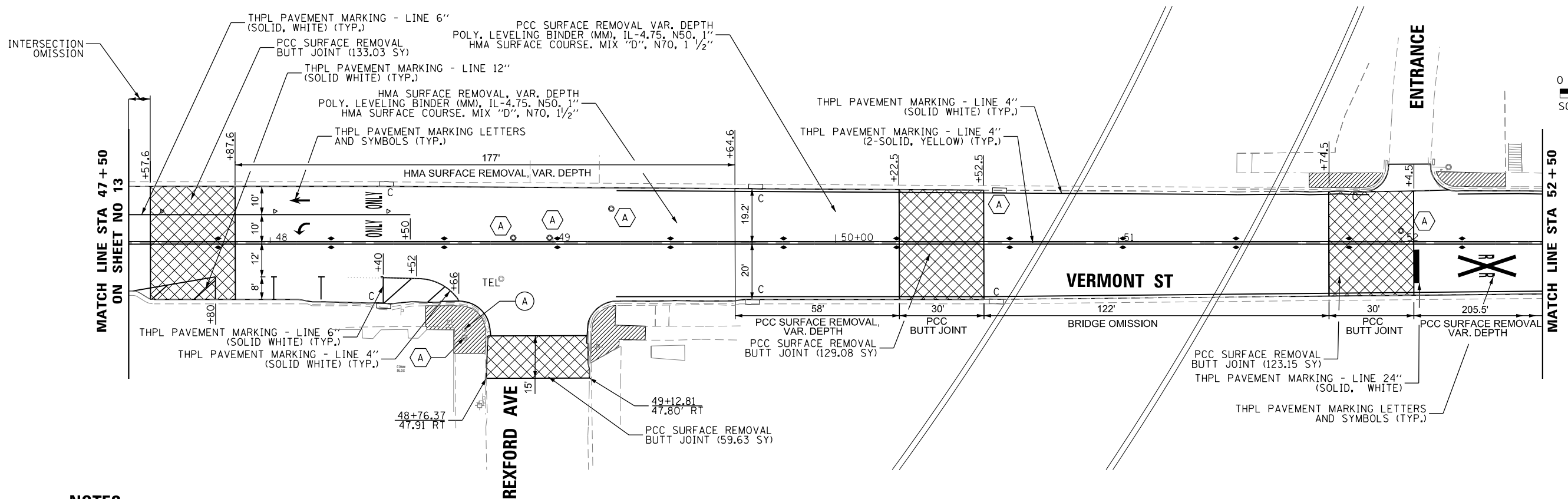
USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 48.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

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

**VERMONT STREET FROM FRANCISCO AVE TO IRVING AVE**

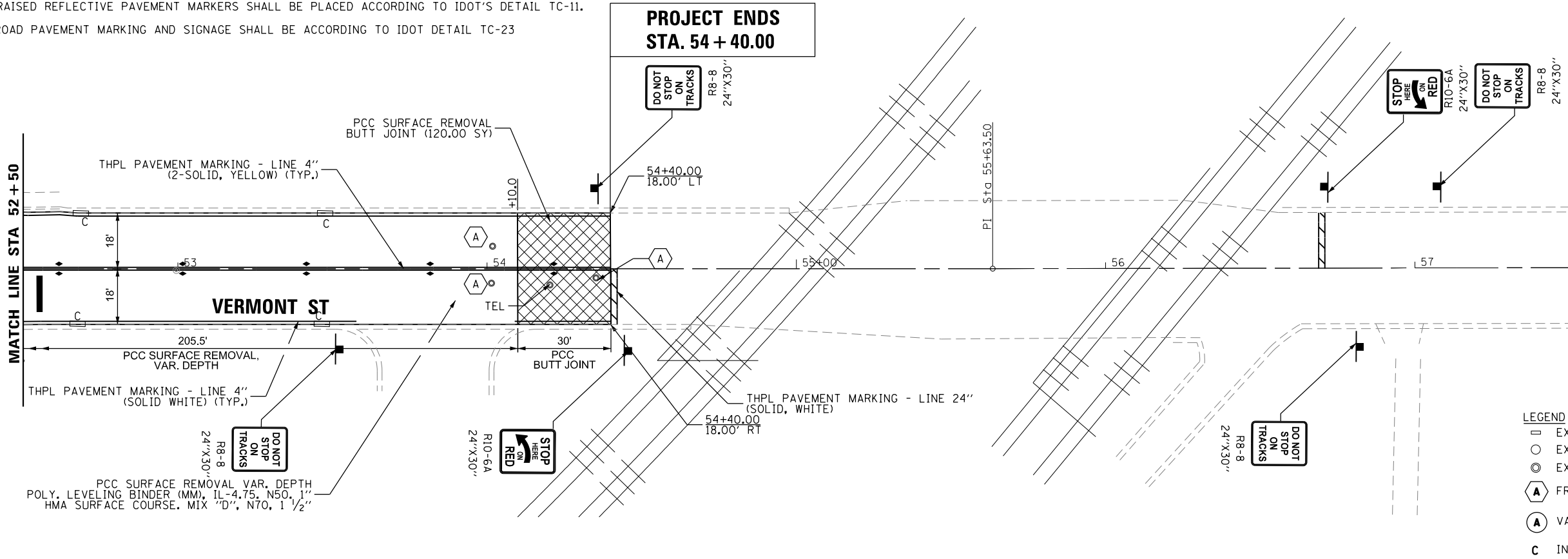
SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
-------	-------	----	--------	------	----	------

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	13
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. REFER TO ADA RAMP ELEVATION PLAN SHEETS FOR PROPOSED ADA RAMP, SIDEWALK LAYOUT AND ELEVATIONS.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-13.
3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO IDOT'S DETAIL TC-11.
4. RAILROAD PAVEMENT MARKING AND SIGNAGE SHALL BE ACCORDING TO IDOT DETAIL TC-23



**LEGEND**

- EXISTING INLET
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- ⬢ (A) FRAMES AND LIDS TO BE ADJUSTED
- ⬢ (A) VALVE VAULTS TO BE ADJUSTED
- C INLETS TO BE CLEANED

P:\606162005\12-PTB177-2004\_MOT12-Vermont St Repair\Drawings\62C82A\_000.dwg, 08/05/2014 14:52:02, sht:plan04.dwg

**AES** Services, Inc.  
111 S. Wacker Drive, Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 48.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

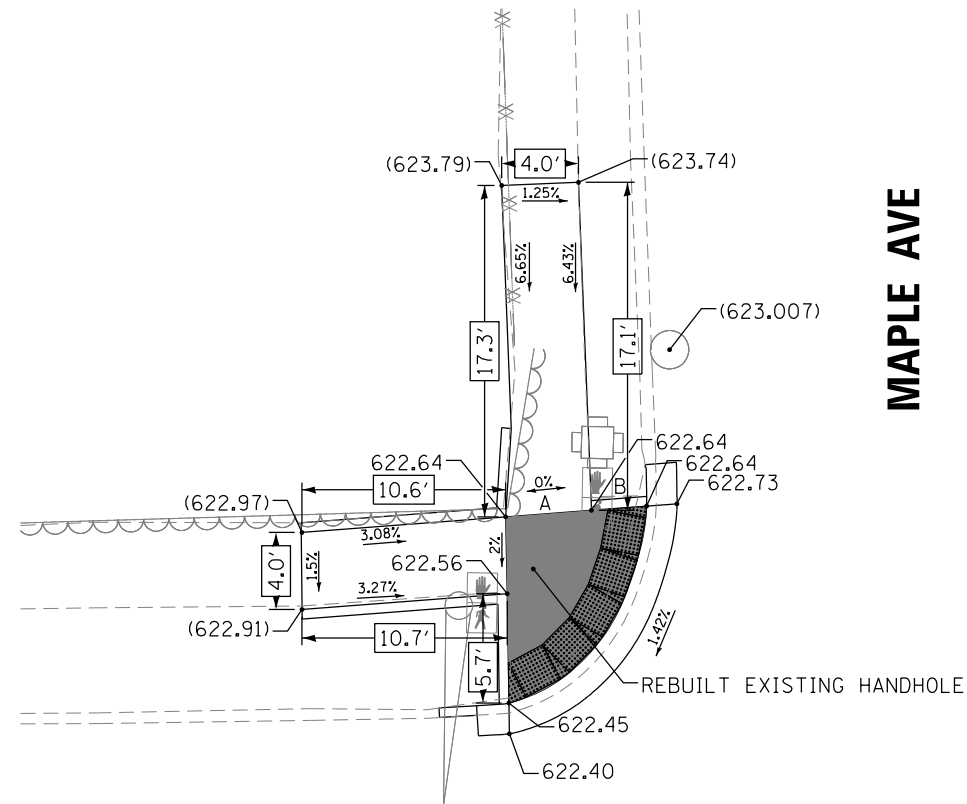
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VERMONT STREET FROM FRANCISCO AVE TO IRVING AVE**

SCALE      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	14
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				





MAPLE AVE

VERMONT AVE

ADA RAMP DISTANCE TABLE	
ID	DISTANCE
A	4.46
B	2.87

**LEGEND**

- DETECTABLE WARNING
- PROPOSED SIDE CURB
- (XXX.XX) EXISTING ELEVATION / SLOPE
- TURNING SPACE / LEVEL LANDING

EARTH EXCAVATION	2.02	CU	YD
TOPSOIL FURNISH AND PLACE, 6"	8.23	SQ	YD
SODDING, SALT TOLERANT	8.23	SQ	YD
PROTECTIVE COAT	2.03	SQ	YD
PCC SIDEWALK 5"	165.00	SQ	FT
DETECTABLE WARNINGS	23.80	SQ	FT
SIDEWALK REMOVAL	165.13	SQ	FT
CONCRETE CURB, TYPE B	36.60	FT	
COMB CC&GUTTER REMOV & REPL	19.70	FT	



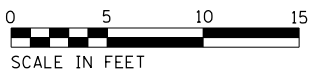
MAPLE AVE

VERMONT AVE

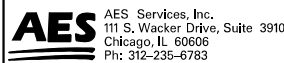
CATCH BASIN TO BE ADJUSTED

ADA RAMP DISTANCE TABLE	
ID	DISTANCE
A	4.00
B	2.97
C	2.57
D	4.00
E	5.15

EARTH EXCAVATION	3.32	CU	YD
TOPSOIL FURNISH AND PLACE, 6"	00.00	SQ	YD
SODDING, SALT TOLERANT	00.00	SQ	YD
PROTECTIVE COAT	0.68	SQ	YD
PCC SIDEWALK 5"	272.00	SQ	FT
DETECTABLE WARNINGS	18.40	SQ	FT
SIDEWALK REMOVAL	271.57	SQ	FT
CONCRETE CURB, TYPE B	12.20	FT	
COMB CC&GUTTER REMOV & REPL	28.00	FT	



P:\606162005\12-PTB177-2004-W012-Vermont St Repair\Drawings\62C82\005Sheet\16\_62C82-sh1-AD082.dgn



USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISIONS -	
PLOT SCALE = 10.0000" / 1"	CHECKED - JA	REVISIONS -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA RAMP DESIGN  
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE

SCALE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	16
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

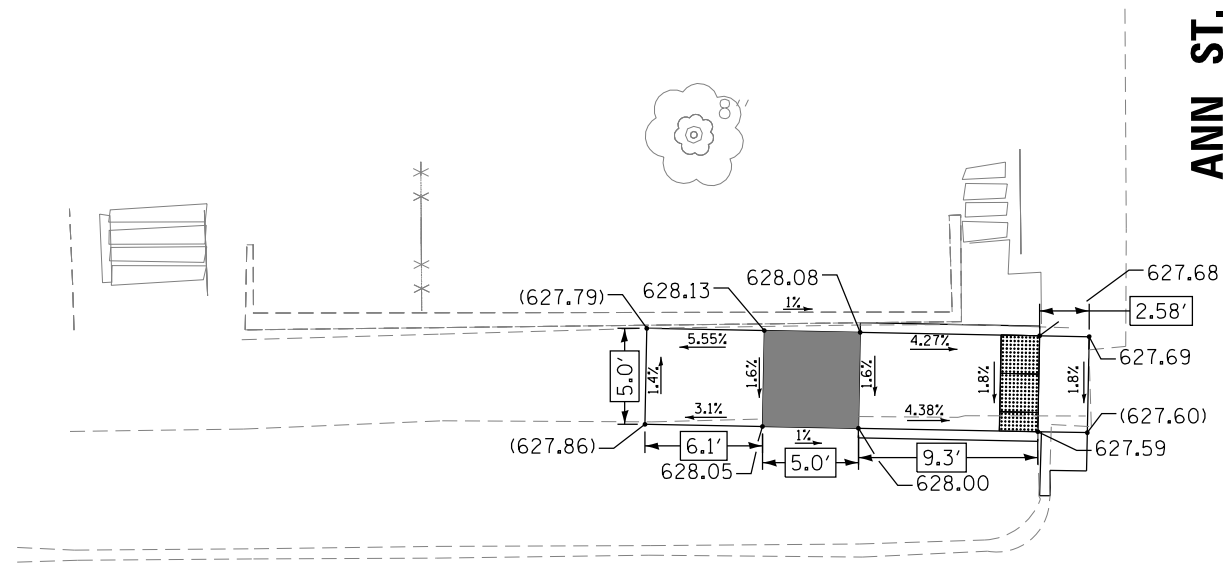






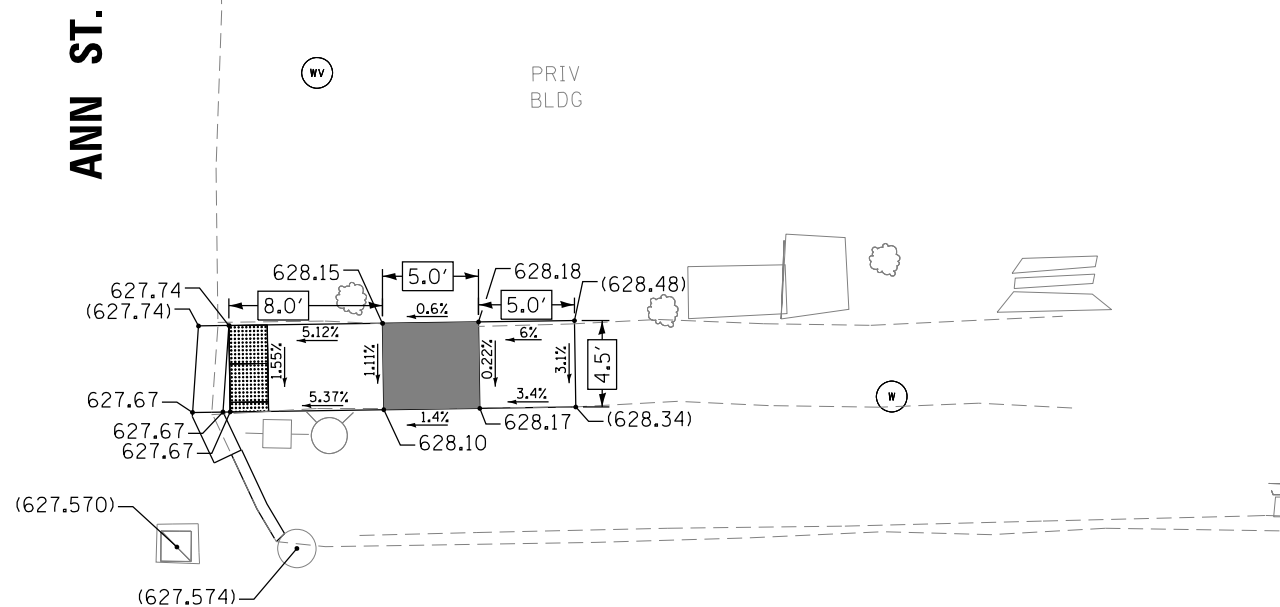
ANN ST.

VERMONT ST.



ANN ST.

VERMONT ST.



37

**LEGEND**



DETECTABLE WARNING



PROPOSED SIDE CURB

(XXX.XX)

EXISTING ELEVATION / SLOPE



TURNING SPACE / LEVEL LANDING

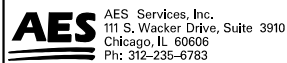
EARTH EXCAVATION	1.25	CU YD
TOPSOIL FURNISH AND PLACE, 6"	1.02	SQ YD
SODDING, SALT TOLERANT	1.02	SQ YD
PROTECTIVE COAT	1.04	SQ YD
PCC SIDEWALK 5"	102.00	SQ FT
DETECTABLE WARNINGS	10.20	SQ FT
SIDEWALK REMOVAL	115.25	SQ FT
CONCRETE CURB, TYPE B	18.80	FT
COMB CC&GUTTER REMOV & REPL	7.00	FT



EARTH EXCAVATION	1.00	CU YD
TOPSOIL FURNISH AND PLACE, 6"	7.81	SQ YD
SODDING, SALT TOLERANT	7.81	SQ YD
PROTECTIVE COAT	0.00	SQ YD
PCC SIDEWALK 5"	82.00	SQ FT
DETECTABLE WARNINGS	9.20	SQ FT
SIDEWALK REMOVAL	81.87	SQ FT
CONCRETE CURB, TYPE B	0.00	FT
COMB CC&GUTTER REMOV & REPL	7.20	FT



P:\606160005\12-PTB177-2004\_M0112-Vermont St Repair\Faculty\62C82\000Sheet\18\_62C82-ant-AD04.dgn



USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISIONS -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

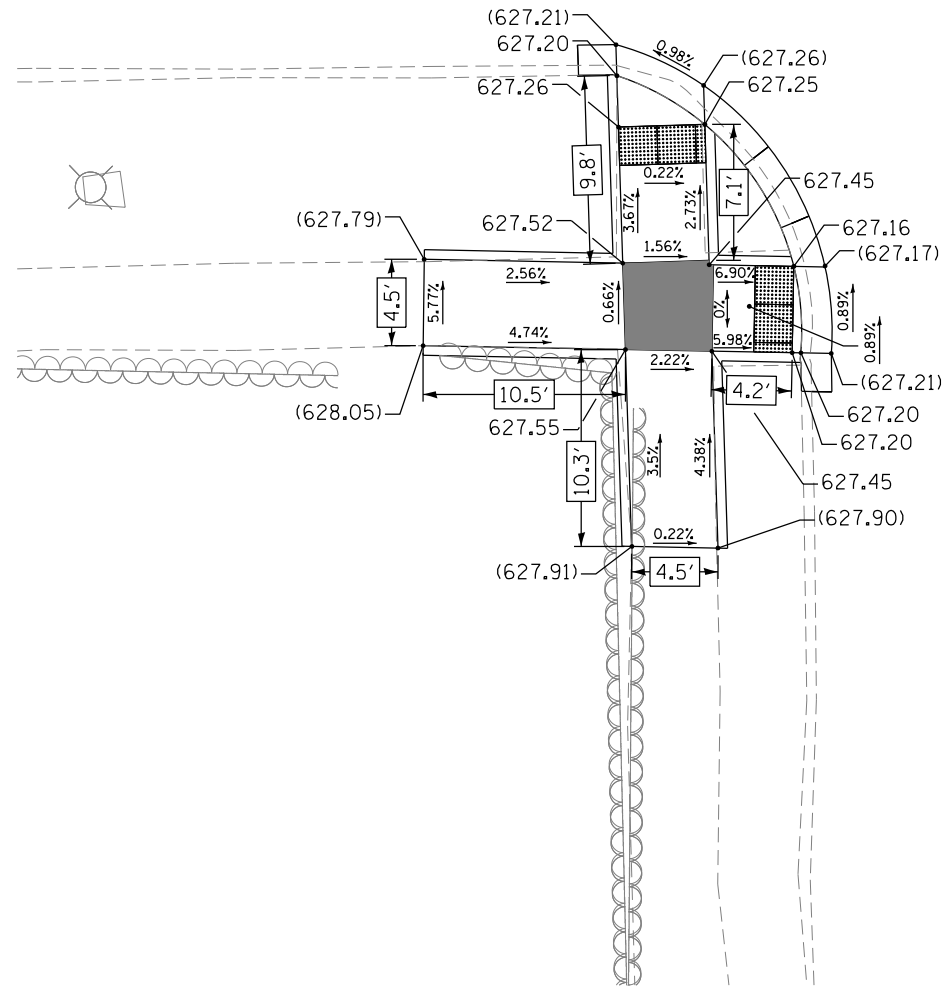
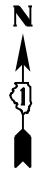
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA RAMP DESIGN  
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE

SCALE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	18
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

**VERMONT ST.**



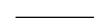
**ANN ST.**



**LEGEND**



DETECTABLE WARNING



PROPOSED SIDE CURB

(XXX.XX)

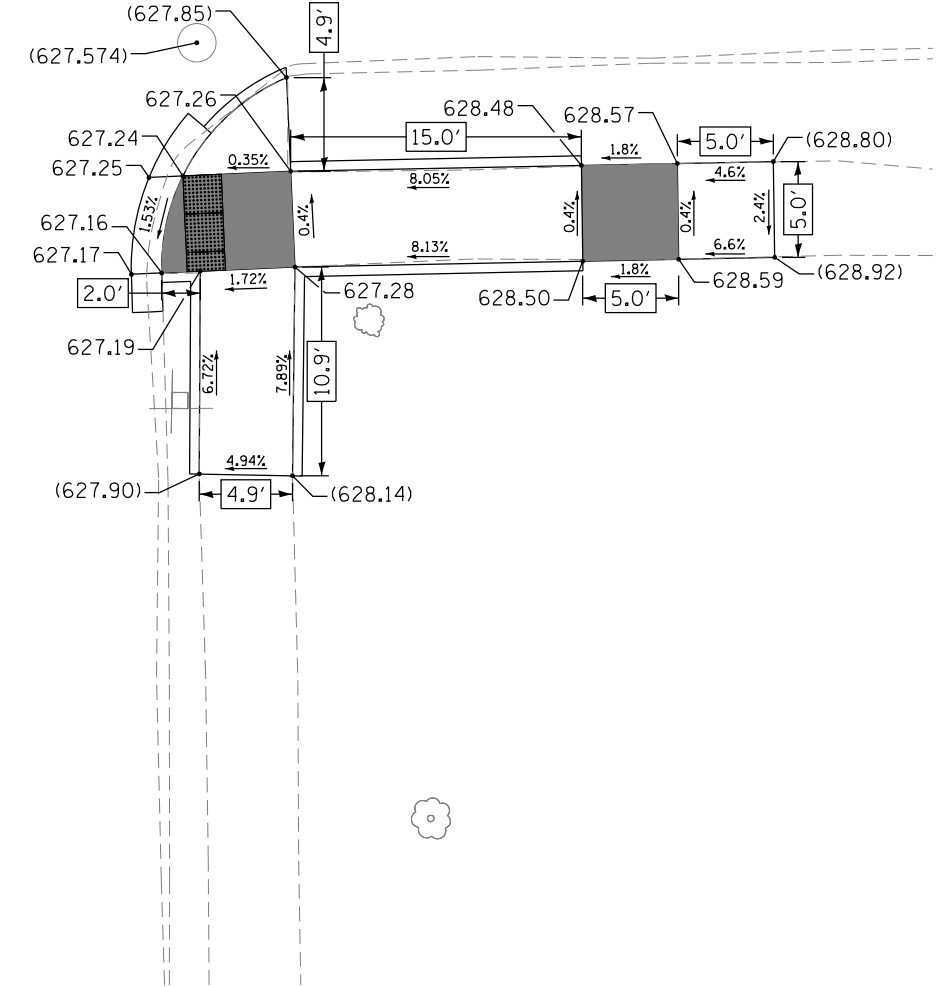
EXISTING ELEVATION / SLOPE



TURNING SPACE / LEVEL LANDING

EARTH EXCAVATION	2.13	CU YD
TOPSOIL FURNISH AND PLACE, 6"	17.33	SQ YD
SODDING, SALT TOLERANT	17.33	SQ YD
PROTECTIVE COAT	3.75	SQ YD
PCC SIDEWALK 5"	174.00	SQ FT
DETECTABLE WARNINGS	18.40	SQ FT
SIDEWALK REMOVAL	174.00	SQ FT
CONCRETE CURB, TYPE B	67.50	FT
COMB CC&GUTTER REMOV & REPL	25.00	FT

**VERMONT ST.**

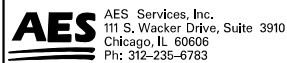


**ANN ST.**



EARTH EXCAVATION	2.77	CU YD
TOPSOIL FURNISH AND PLACE, 6"	21.11	SQ YD
SODDING, SALT TOLERANT	21.11	SQ YD
PROTECTIVE COAT	3.27	SQ YD
PCC SIDEWALK 5"	227.00	SQ FT
DETECTABLE WARNINGS	10.20	SQ FT
SIDEWALK REMOVAL	227.20	SQ FT
CONCRETE CURB, TYPE B	58.90	FT
COMB CC&GUTTER REMOV & REPL	11.00	FT

P:\606162005\12-PTB177-2004\_M012-Vermont St. Repair\Drawings\62C82\000.dwg, 000sheet\19\_62C82-ant-AD0485.dgn



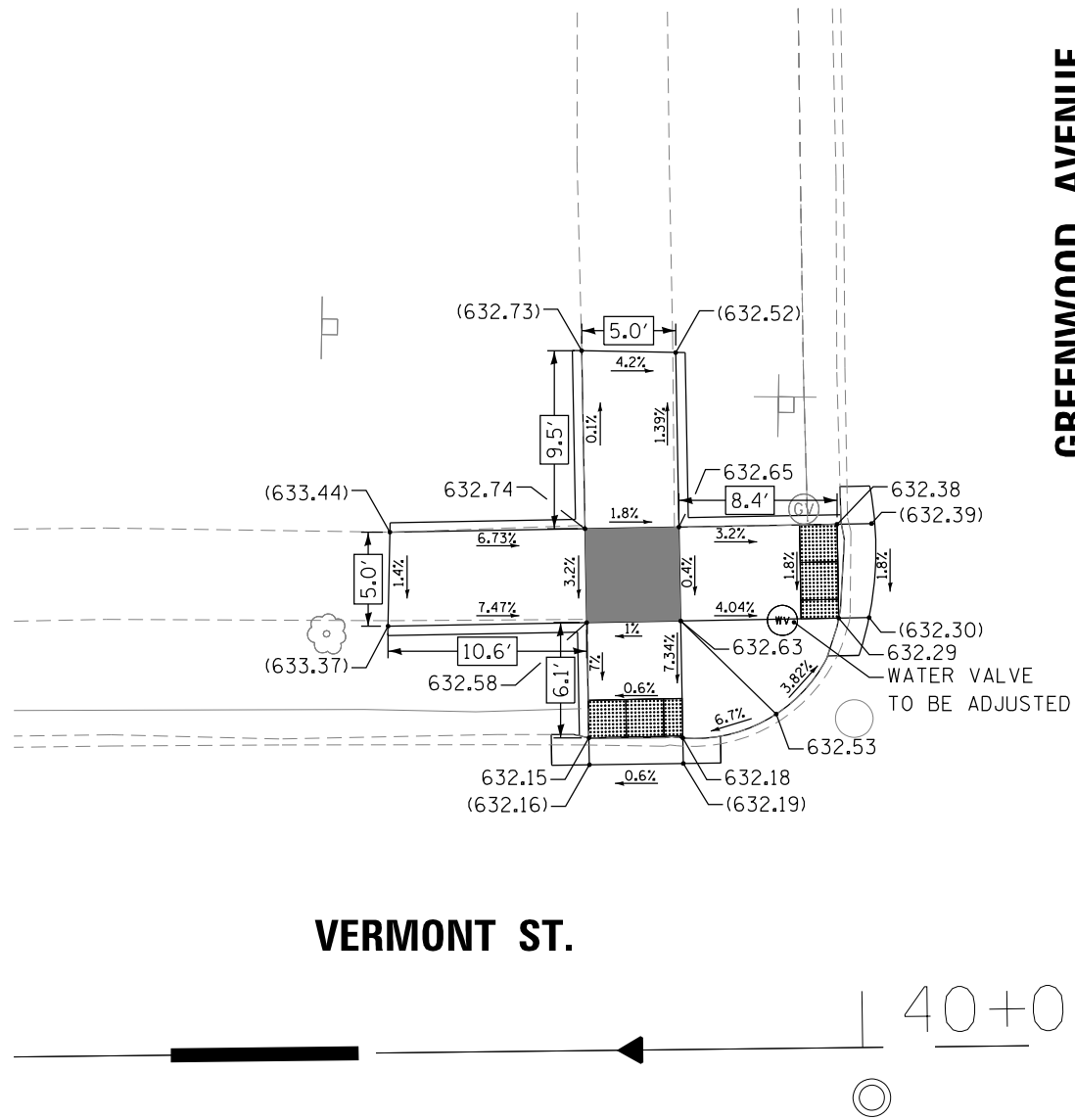
USER NAME = tmohammed	DESIGNED - JA	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 4/13/2017	CHECKED - JA	REVISED -
	DATE - 4/13/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DESIGN  
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE**

SCALE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	19
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



GREENWOOD AVENUE

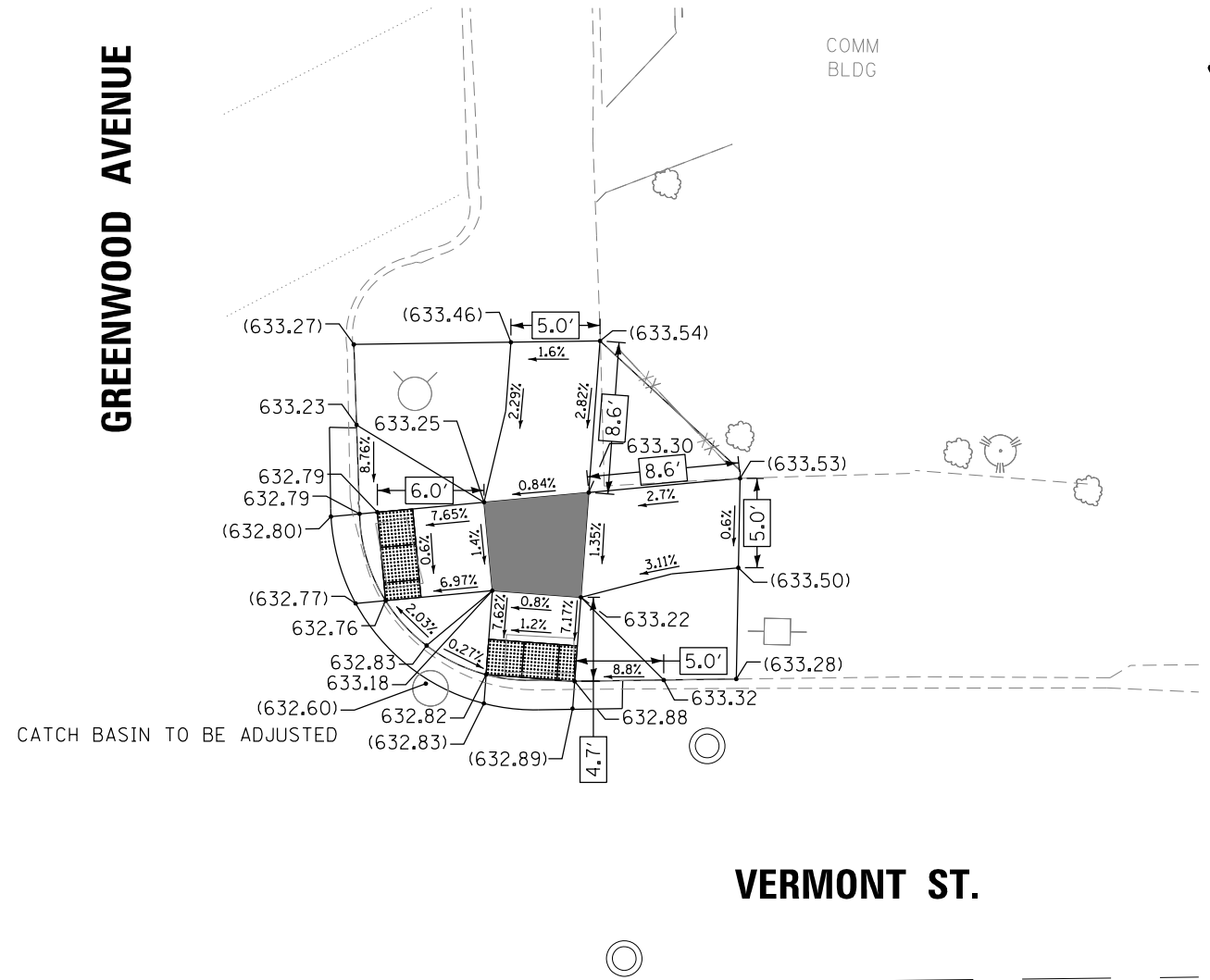
VERMONT ST.

40+00

**LEGEND**

- DETECTABLE WARNING
- PROPOSED SIDE CURB
- (XXX.XX) EXISTING ELEVATION / SLOPE
- TURNING SPACE / LEVEL LANDING

EARTH EXCAVATION	2.92	CU YD
TOPSOIL FURNISH AND PLACE, 6"	17.77	SQ YD
SODDING, SALT TOLERANT	17.77	SQ YD
PROTECTIVE COAT	3.03	SQ YD
PCC SIDEWALK 5"	239.00	SQ FT
DETECTABLE WARNINGS	20.40	SQ FT
SIDEWALK REMOVAL	239.17	SQ FT
CONCRETE CURB, TYPE B	54.50	FT
COMB CC&GUTTER REMOV & REPL	18.10	FT



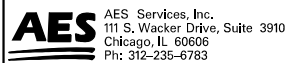
GREENWOOD AVENUE

VERMONT ST.

EARTH EXCAVATION	4.39	CU YD
TOPSOIL FURNISH AND PLACE, 6"	0.00	SQ YD
SODDING, SALT TOLERANT	0.00	SQ YD
PROTECTIVE COAT	0.00	SQ YD
PCC SIDEWALK 5"	359.25	SQ FT
DETECTABLE WARNINGS	20.40	SQ FT
SIDEWALK REMOVAL	359.25	SQ FT
CONCRETE CURB, TYPE B	0.00	FT
COMB CC&GUTTER REMOV & REPL	27.40	FT



P:\606162005\12-PTB177-2004\_M012-Vermont St Repair\Facility\62C82\00CADD\005Sheets\20\_62C82\_sht-40A06.dgn



USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 10.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

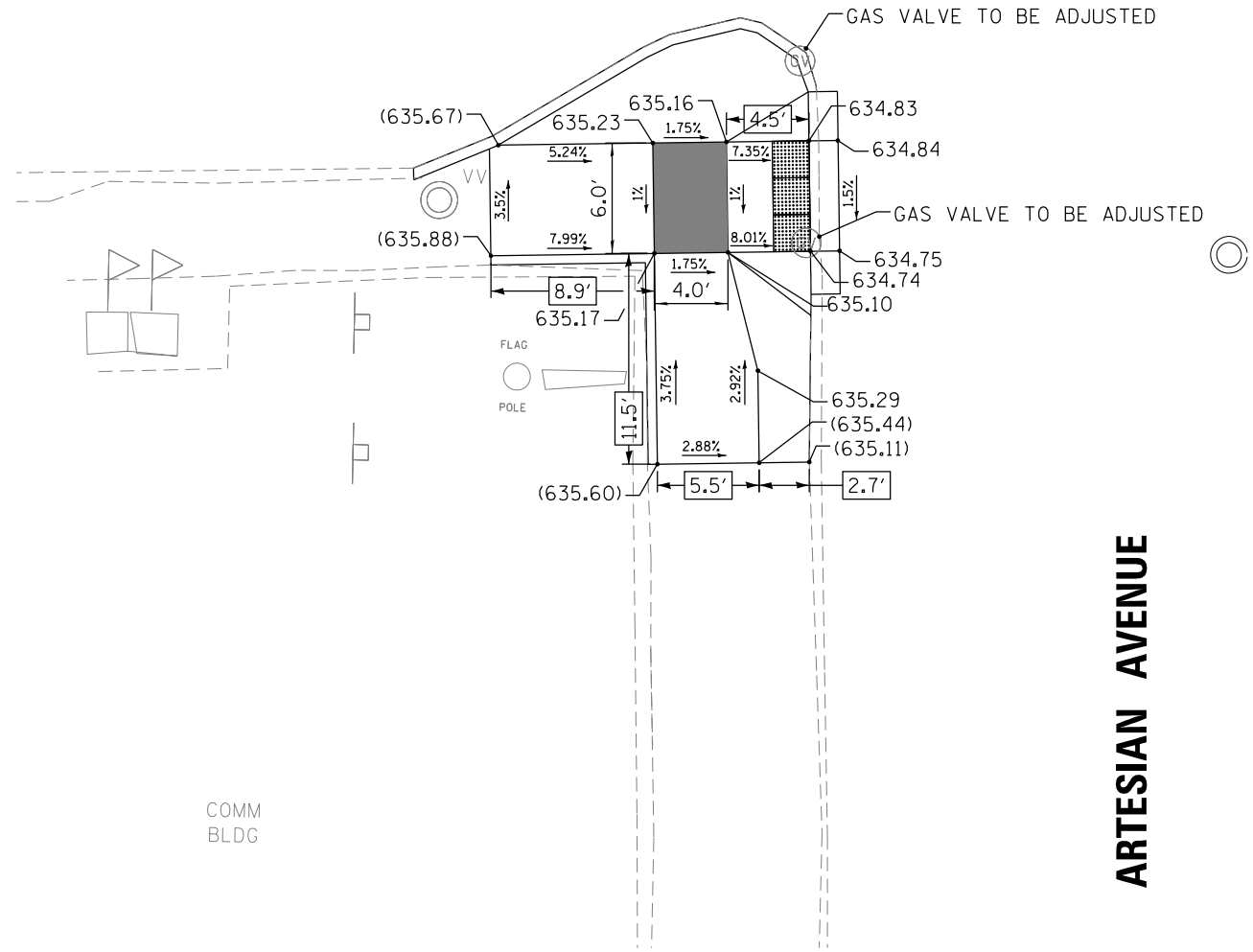
ADA RAMP DESIGN				
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE				
SCALE	SHEET	OF SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	20
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				



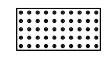
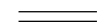



VERMONT ST.



ARTESIAN AVENUE

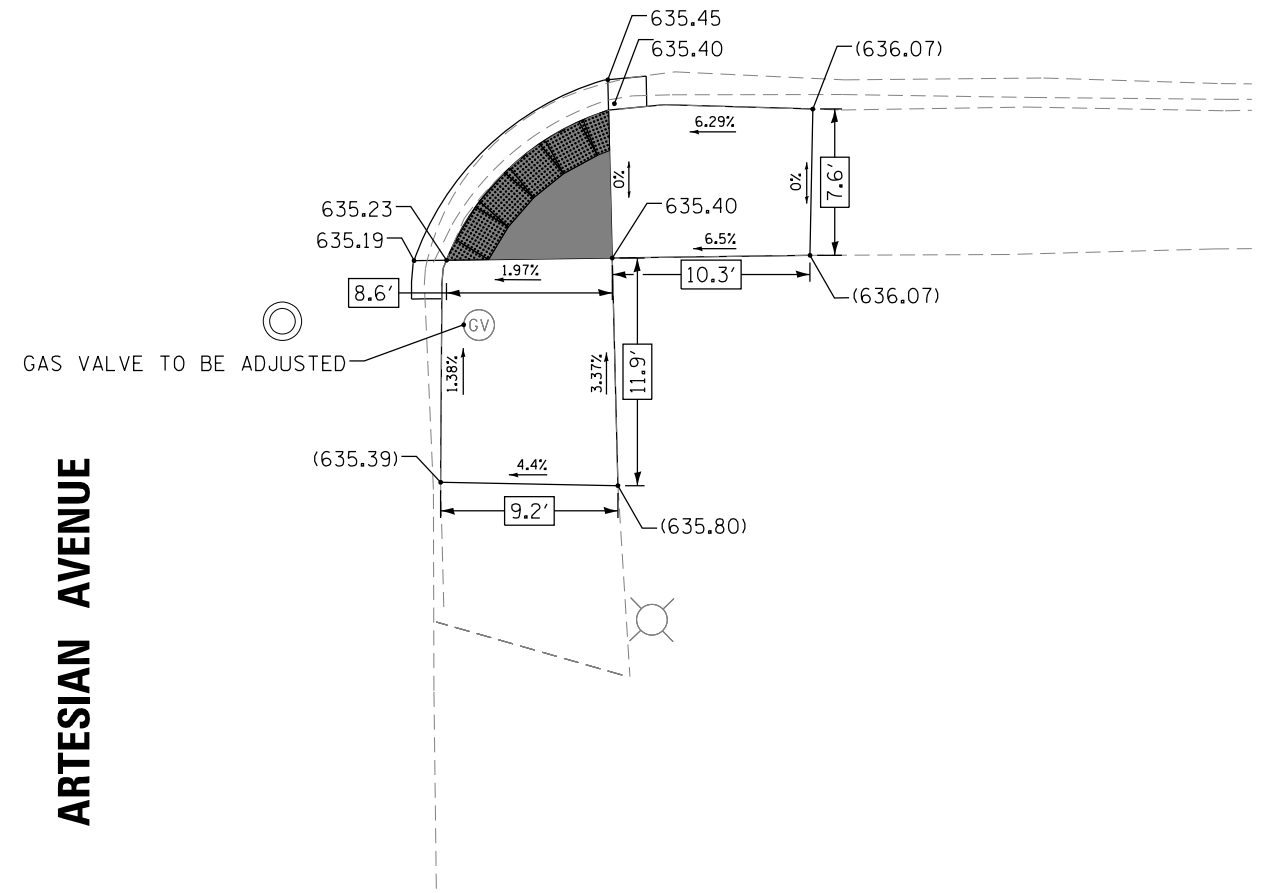
**LEGEND**

-  DETECTABLE WARNING
-  PROPOSED SIDE CURB
- (XXX.XX) EXISTING ELEVATION / SLOPE
-  TURNING SPACE / LEVEL LANDING

EARTH EXCAVATION	3.25	CU YD
TOPSOIL FURNISH AND PLACE, 6"	0.00	SQ YD
SODDING, SALT TOLERANT	0.00	SQ YD
PROTECTIVE COAT	2.57	SQ YD
PCC SIDEWALK 5"	266.00	SQ FT
DETECTABLE WARNINGS	12.20	SQ FT
SIDEWALK REMOVAL	266.00	SQ FT
CONCRETE CURB, TYPE B	46.30	FT
COMB CC&GUTTER REMOV & REPL	11.00	FT



VERMONT ST.

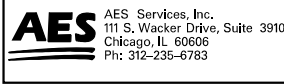


ARTESIAN AVENUE

EARTH EXCAVATION	2.82	CU YD
TOPSOIL FURNISH AND PLACE, 6"	0.00	SQ YD
SODDING, SALT TOLERANT	0.00	SQ YD
PROTECTIVE COAT	0.00	SQ YD
PCC SIDEWALK 5"	231.00	SQ FT
DETECTABLE WARNINGS	21.00	SQ FT
SIDEWALK REMOVAL	231.00	SQ FT
CONCRETE CURB, TYPE B	0.00	FT
COMB CC&GUTTER REMOV & REPL	18.40	FT



P:\60616\0005\12-PTB177-004\_M012-Vermont St. Repair\Facility\62C82\000.dwg, 000Sheet\23.62C82-sh1-40A09.dgn



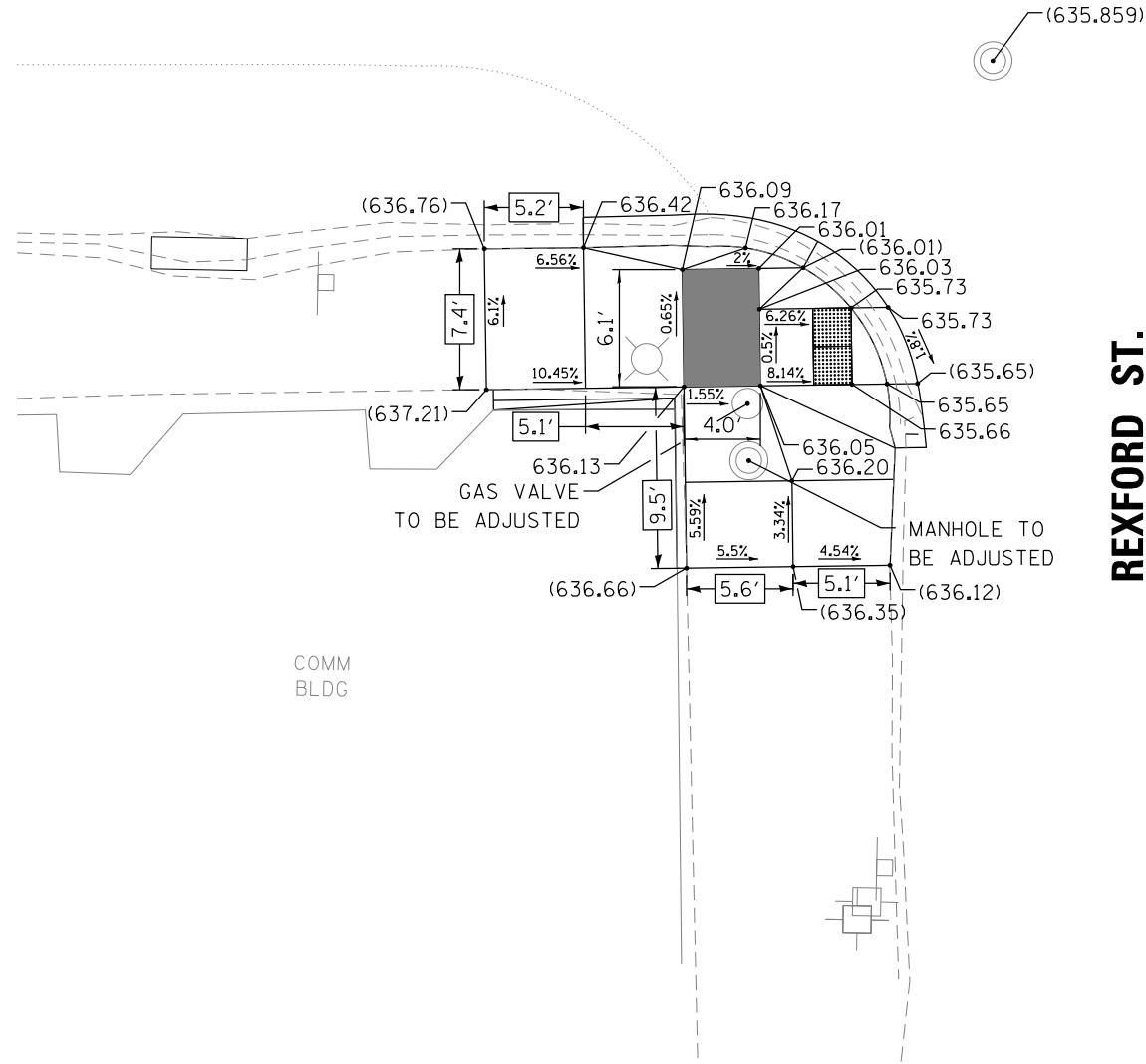
USER NAME = tmohammed	DESIGNED - JA	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 4/13/2017	CHECKED - JA	REVISED -
	DATE - 4/13/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA RAMP DESIGN				
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE				
SCALE	SHEET	OF SHEETS	STA.	TO STA.

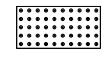
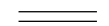

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	23
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

VERMONT ST.



REXFORD ST.

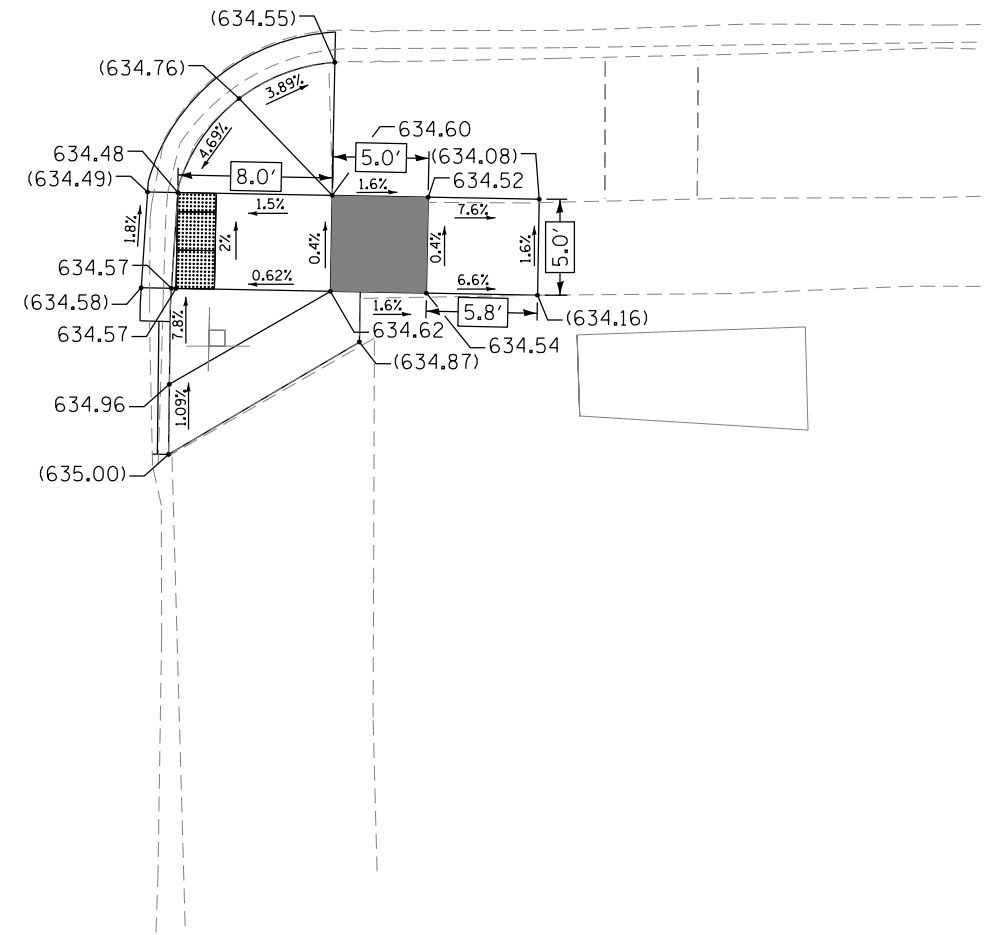
**LEGEND**

-  DETECTABLE WARNING
-  PROPOSED SIDE CURB
- (XXX.XX) EXISTING ELEVATION / SLOPE
-  TURNING SPACE / LEVEL LANDING

EARTH EXCAVATION	3.06	CU YD
TOPSOIL FURNISH AND PLACE, 6"	0.00	SQ YD
SODDING, SALT TOLERANT	0.00	SQ YD
PROTECTIVE COAT	1.08	SQ YD
PCC SIDEWALK 5"	240.00	SQ FT
DETECTABLE WARNINGS	8.20	SQ FT
SIDEWALK REMOVAL	255.72	SQ FT
CONCRETE CURB, TYPE B	19.40	FT
COMB CC&GUTTER REMOV & REPL	25.30	FT

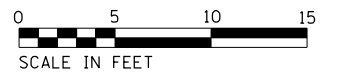


VERMONT ST.



REXFORD ST.

EARTH EXCAVATION	2.43	CU YD
TOPSOIL FURNISH AND PLACE, 6"	0.00	SQ YD
SODDING, SALT TOLERANT	0.00	SQ YD
PROTECTIVE COAT	0.39	SQ YD
PCC SIDEWALK 5"	191.00	SQ FT
DETECTABLE WARNINGS	10.20	SQ FT
SIDEWALK REMOVAL	191.00	SQ FT
CONCRETE CURB, TYPE B	7.00	FT
COMB CC&GUTTER REMOV & REPL	20.60	FT



P:\60616005\12-PTB177-2004\_M012-Vermont St. Repair\Facility\62C82\000.dwg, 005sheet\24\_62C82\_sht-40A10.dgn



USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 10.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA RAMP DESIGN  
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE

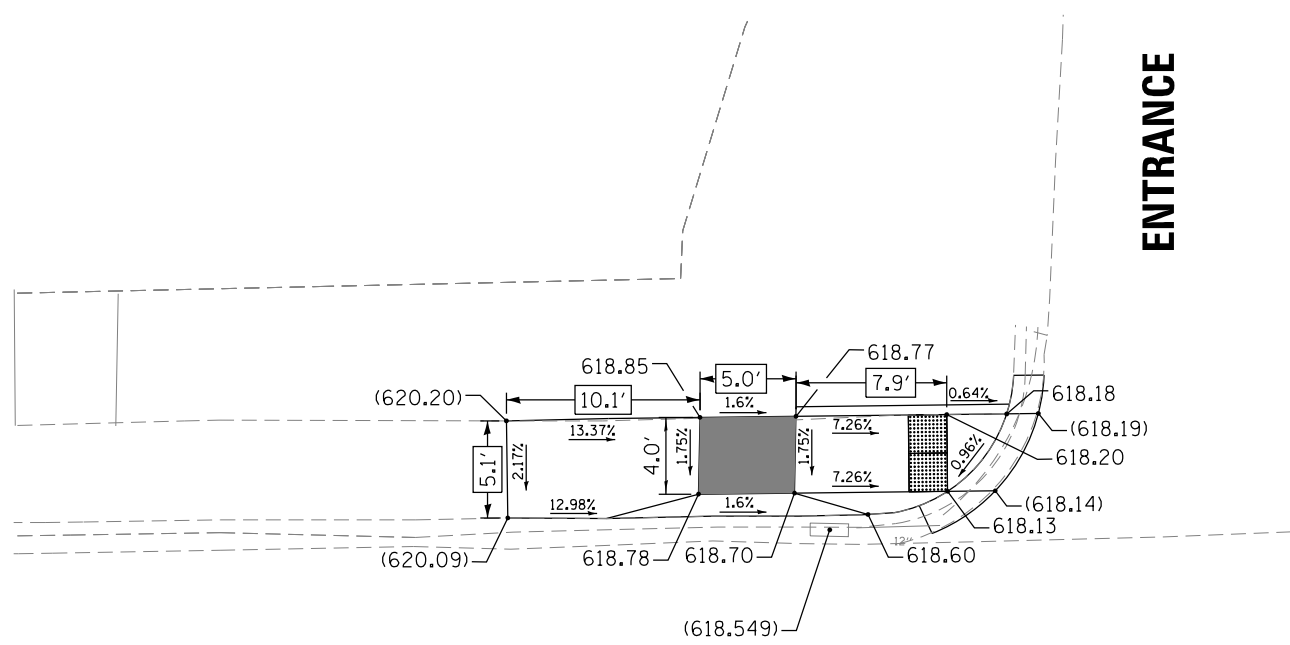
SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
-------	-------	----	--------	------	----	------

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027RS	COOK	39	24
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				

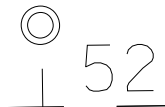




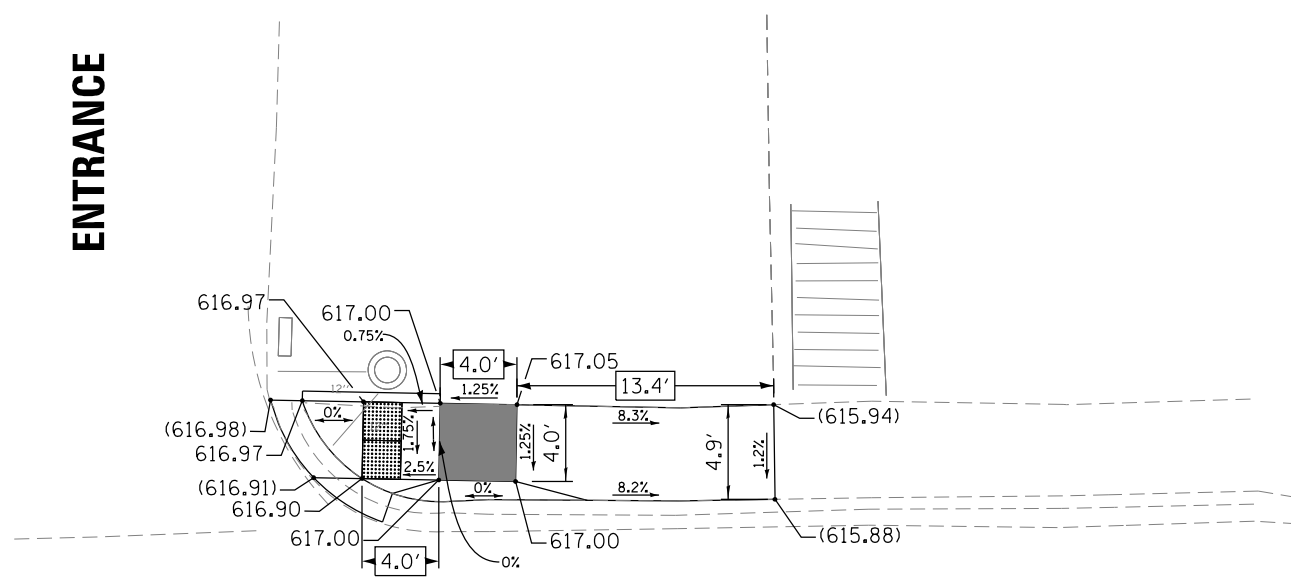
ENTRANCE



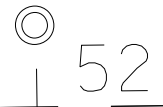
VERMONT ST.



ENTRANCE



VERMONT ST.



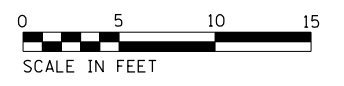
**LEGEND**

- DETECTABLE WARNING
- PROPOSED SIDE CURB
- (XXX.XX) EXISTING ELEVATION / SLOPE
- TURNING SPACE / LEVEL LANDING

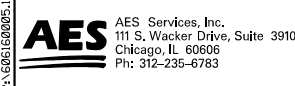
EARTH EXCAVATION	1.38	CU YD
TOPSOIL FURNISH AND PLACE, 6"	14.44	SQ YD
SODDING, SALT TOLERANT	14.44	SQ YD
PROTECTIVE COAT	0.62	SQ YD
PCC SIDEWALK 5"	125.00	SQ FT
DETECTABLE WARNINGS	8.20	SQ FT
SIDEWALK REMOVAL	125.00	SQ FT
CONCRETE CURB, TYPE B	11.10	FT
COMB CC&GUTTER REMOV & REPL	10.70	FT



EARTH EXCAVATION	1.53	CU YD
TOPSOIL FURNISH AND PLACE, 6"	13.89	SQ YD
SODDING, SALT TOLERANT	13.89	SQ YD
PROTECTIVE COAT	0.39	SQ YD
PCC SIDEWALK 5"	113.00	SQ FT
DETECTABLE WARNINGS	8.20	SQ FT
SIDEWALK REMOVAL	113.00	SQ FT
CONCRETE CURB, TYPE B	7.20	FT
COMB CC&GUTTER REMOV & REPL	10.00	FT



P:\60616\0005\12-PTB177-004\_M012-Vermont St. Repair\Facility\62C82\00CADD\009Sheets\25-62C82-sht-40A11.dgn



USER NAME = tmohammed	DESIGNED - JA	REVISED -
DRAWN - TOM	REVISIONS -	
PLOT SCALE = 10.0000' / in.	CHECKED - JA	REVISED -
PLOT DATE = 4/13/2017	DATE - 4/13/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA RAMP DESIGN  
VERMONT ST FROM FRANCISCO AVE TO IRVING AVE

SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
-------	-------	----	--------	------	----	------

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R5	COOK	39	25
CONTRACT NO. 62C82				
ILLINOIS FED. AID PROJECT				





**PROPOSED SCHEDULE OF SIGNAL HEADS**

3 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH 12" RED LENS, BRACKET MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH 12" LENSES, MAST ARM MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH 12" LENSES, MAST ARM MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION, WITH 12" RED LENSES, 1-3 SECTION WITH 12" LENSES, BRACKET MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 3-FACE, 3-SECTION, WITH 12" RED LENSES, BRACKET MOUNTED
6 EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, 2-SECTION, WITH 12" LENSES, BRACKET MOUNTED

**SEQUENCE OF OPERATIONS**

PHASE	A	B	C	L	S	H
INTERVAL	1	2	3	4	5	6
CHANGE TO						
EB VERMONT FR & PL	G	G	G	Y	R	R
EB VERMONT NR	G	G	G	Y	R	R
WB VERMONT NR, FR & PL	R	R	R	Y	R	R
SB MAPLE NR, FR & PL	R	R	R	Y	R	R
PEA ACROSS MAPLE	DW	DW	DW	DW	DW	DW
PEA ACROSS VERMONT	DW	DW	DW	DW	DW	DW

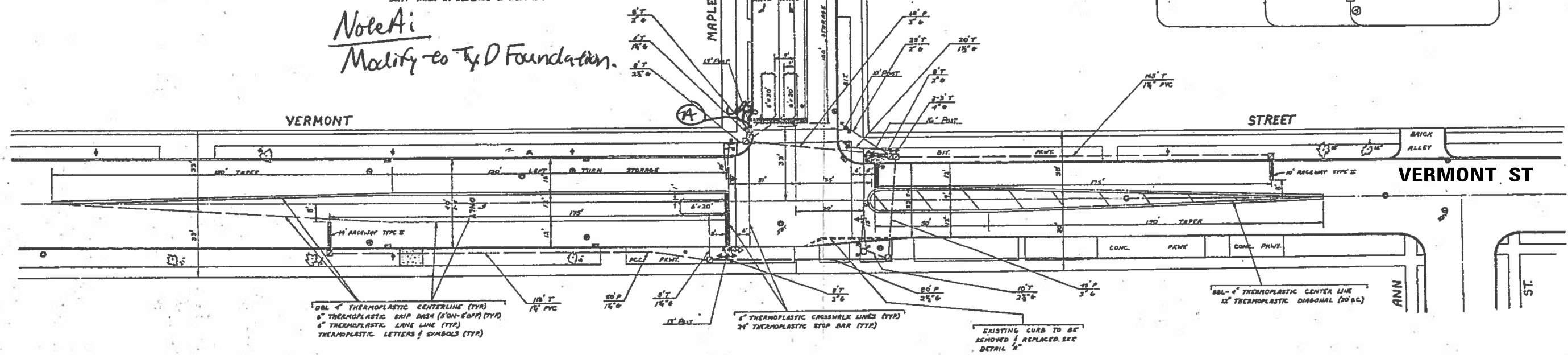
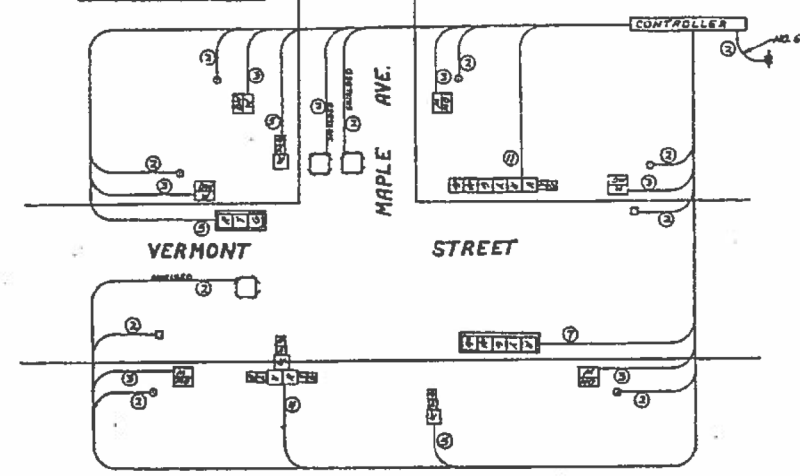
\* WALK TO APPEAR ONLY UPON ACTIVATION  
 \*\* FLASHING "DON'T WALK" SHALL APPEAR AS STEADY "DON'T WALK" IN ABSENCE OF ACTIVATION

*Note: Modify to TxD Foundation.*

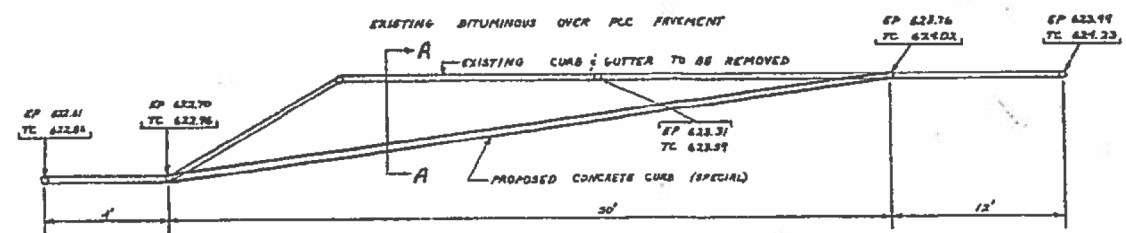
**LEGEND**

- 12" TRAFFIC SIGNAL SECTION
- 6" TRAFFIC SIGNAL SECTION
- TRAFFIC SIGNAL BACKPLATE
- VEHICLE DETECTOR INDUCTION LOOP
- SERVICE INSTALLATION
- PEDESTRIAN SIGNAL HEAD
- VEHICLE DETECTOR MAGNETIC
- NUMBER OF CONDUCTORS (ALL CABLE NO. 14 EXCEPT AS INDICATED)

**CABLE PLAN**

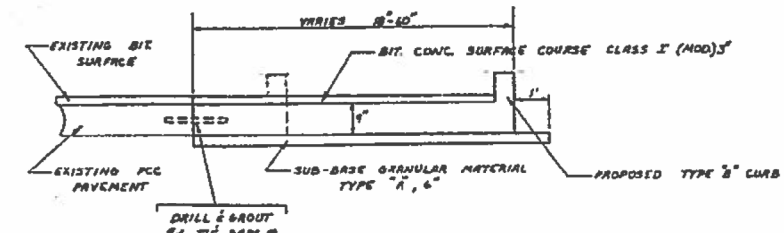


**THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY**



**DETAIL "A"**

NOTE:  
 1. ENTIRE WIDENING TO BE POURED INTEGRAL WITH AND INCIDENTAL TO PROPOSED CURB  
 2. BITUMINOUS MATERIALS (PRIME COAT) TO BE INCIDENTAL TO BITUMINOUS CONCRETE SURFACE COURSE CLASS I (MODIFIED).



**SECTION A-A**

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

CODE	QUANTITY	UNIT	ITEM
88600600	230	FOOT	DETECTOR LOOP REPLACEMENT

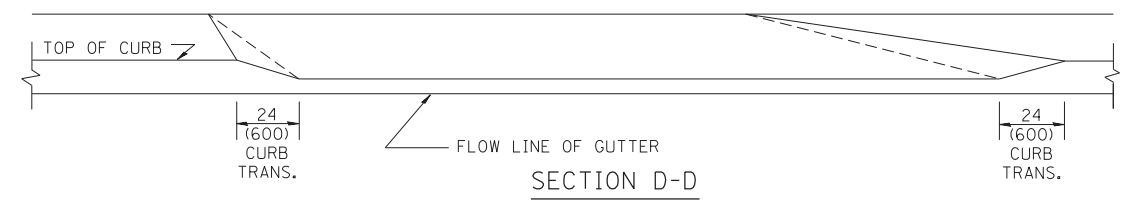
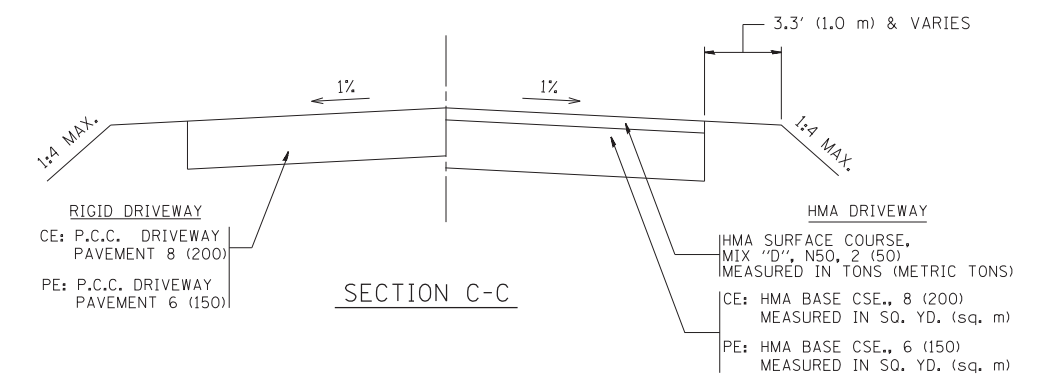
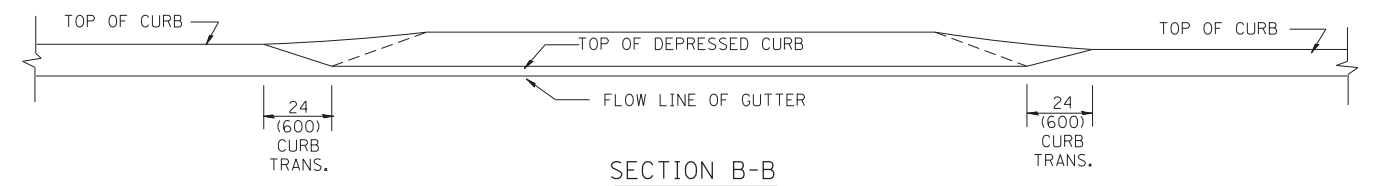
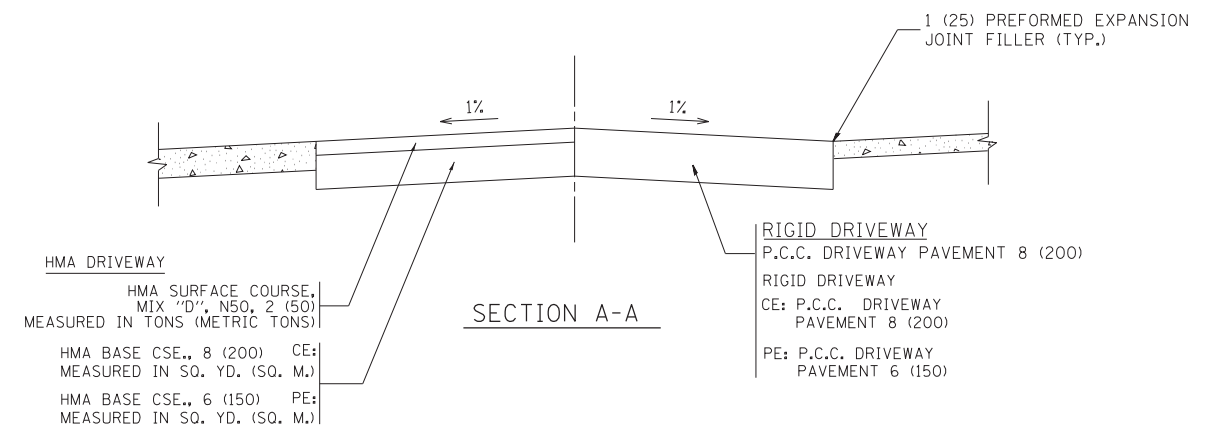
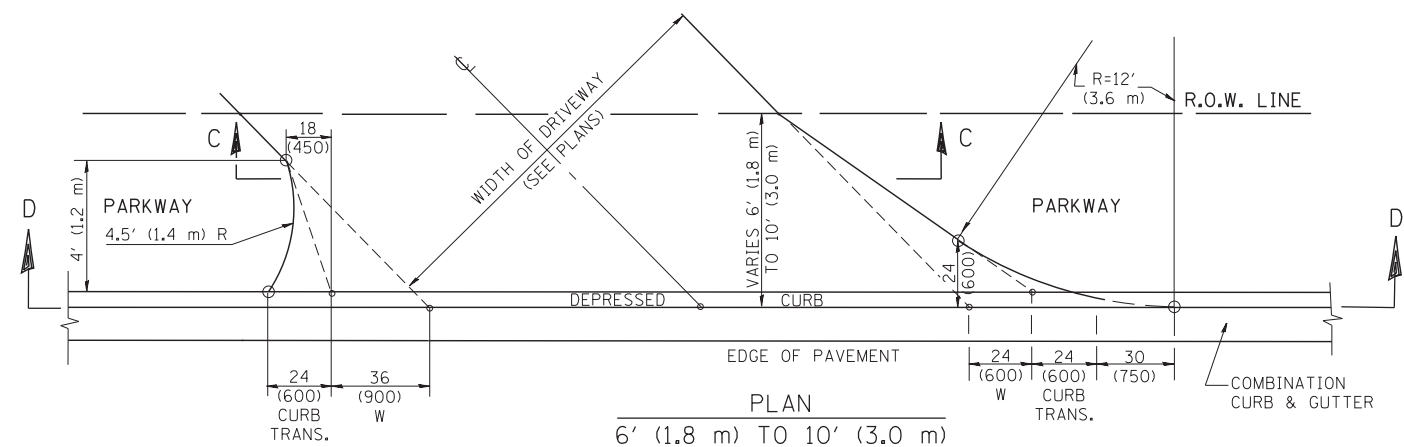
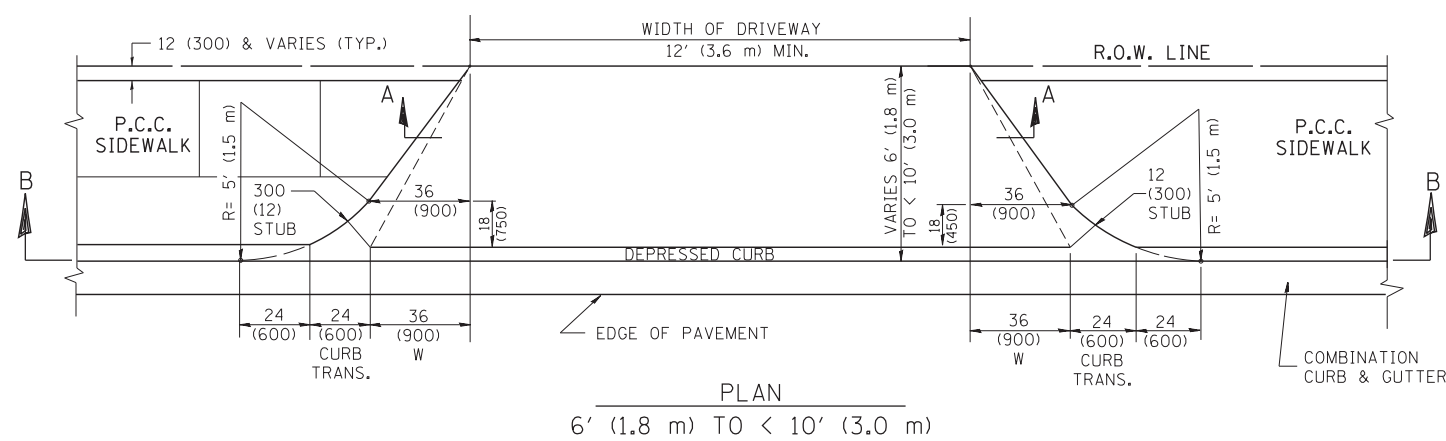
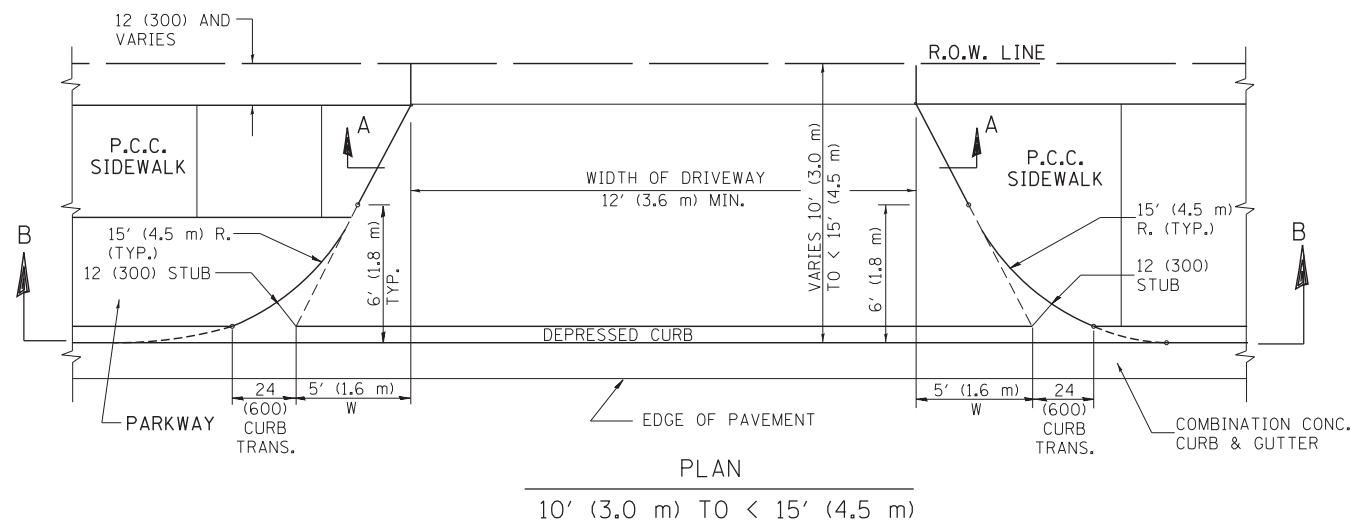
**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
CONTROLLER	⊕	⊕
SERVICE INSTALLATION	⊕	⊕
SIGNAL HEAD OPTICALLY PROGRAMMED	⊕	⊕
SIGNAL HEAD	⊕	⊕
EMERGENCY VEHICLE SYSTEM DETECTOR, OPTICAL TYPE	⊕	⊕
SIGNAL HEAD, PEDESTRIAN	⊕	⊕
MAST ARM ASSEMBLY AND POLE	⊕	⊕
HANDHOLE	⊕	⊕
HEAVY DUTY HANDHOLE	⊕	⊕
DOUBLE HANDHOLE	⊕	⊕
CONDUIT IN TRENCH	⊕	⊕
CONDUIT PUSHED	⊕	⊕
CHURN FOR MAGNETIC DETECTOR, TYPE I	⊕	⊕
RACEWAY FOR MAGNETIC DETECTOR, TYPE II	⊕	⊕
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	⊕	⊕
PEDESTRIAN PUSH-BUTTON DETECTOR	⊕	⊕
CONDUIT SPLICE	⊕	⊕
CONCRETE JUNCTION BOX	⊕	⊕
WOOD POLE	⊕	⊕
SIGNAL FACE WITH BACKPLATE	⊕	⊕

**REVISIONS**

NO.	DATE	BY	DESCRIPTION
1	7/27/17	JR	ISSUE FOR PERMITS

**E. W. ROSSIGNOL ASSOCIATES COMPANY**  
 PROFESSIONAL ENGINEER  
 TRAFFIC SIGNAL INSTALLATION  
 VERMONT ST & MAPLE AVENUE  
 CITY OF BLUE ISLAND  
 TEL: 708/778-1000  
 FAX: 708/778-1001  
 8/23/17  
 1"=20'  
 26



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

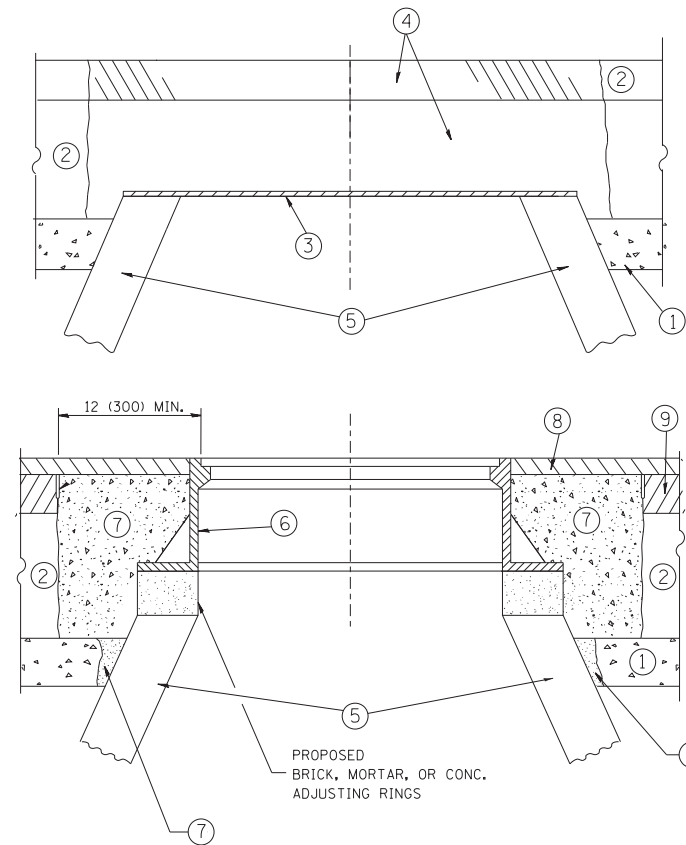
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME =	USER NAME = l1eyso	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ct:\pw\work\p1dot\1eyso\d0108315\bd02.dgn		DRAWN -	REVISED - P. LOFLEUR 04-15-03
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/28/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)		1594	2016-027R	COOK	39	27
SCALE: NONE		BD400-02 (BD-02)		CONTRACT NO. 62C82		
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**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 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA 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 PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ⑥ FRAME AND LID (SEE NOTES)
- ② EXISTING PAVEMENT
- ⑦ CLASS PP-1\* CONCRETE
- ③ 36 (900) DIAMETER METAL PLATE
- ⑧ PROPOSED HMA SURFACE COURSE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑨ PROPOSED HMA BINDER COURSE
- ⑤ EXISTING STRUCTURE

**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:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

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

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

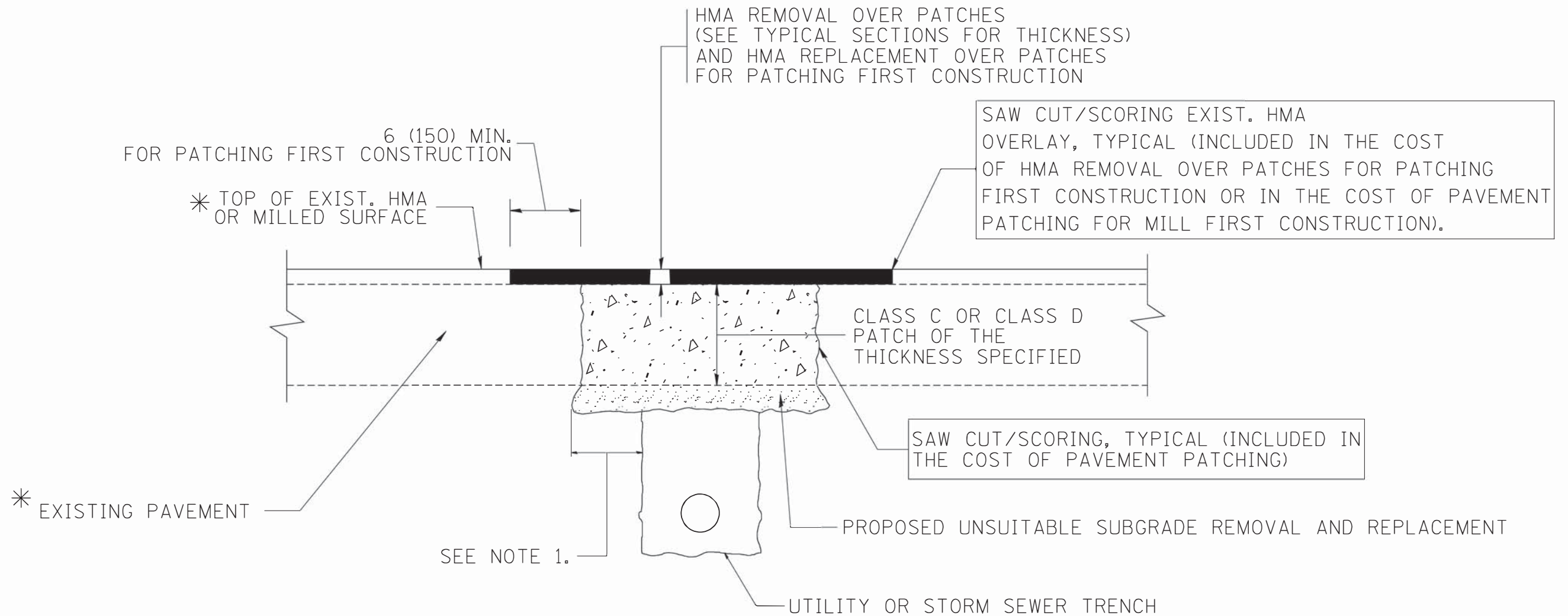
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
ct:\pw\work\p\dot\bauerdl\d0108315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1/968.5000 "/ m	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	28
BD600-03 (BD-8)		CONTRACT NO. 62C82		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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 4 1/2 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.

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	29
<b>BD400-04 (BD-22)</b>			<b>CONTRACT NO. 62C82</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

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

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

18" (450) MAX.

1/4" (5) \*\*

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

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

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

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

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

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

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

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

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

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

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

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
ct:\pw\work\p1dot\drivakosgn\0108315\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09

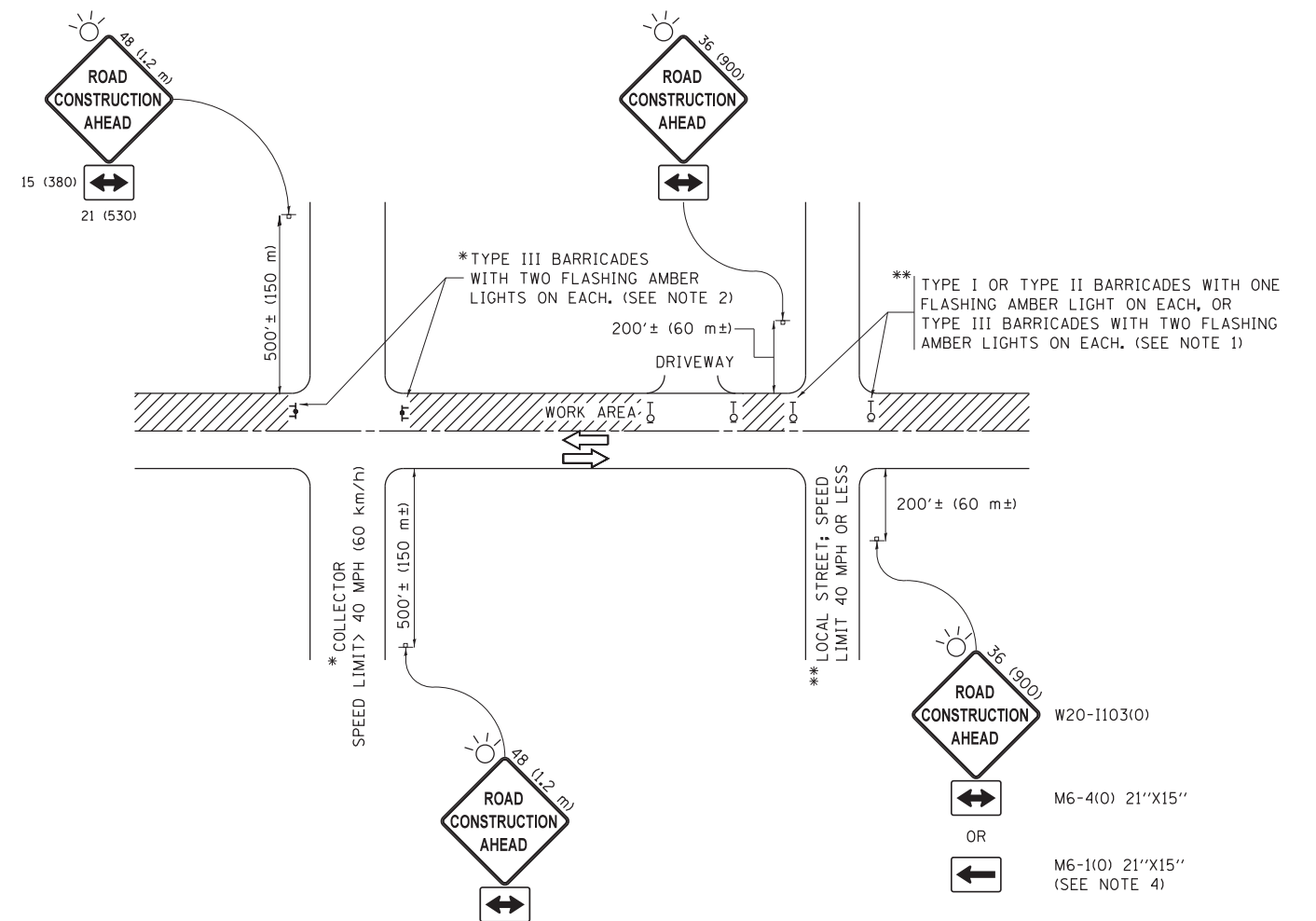
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	30
BD600-06 (BD-24)			CONTRACT NO. 62C82	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**NOTES:**

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 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. 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.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\to\CAD\sheets\tc10.dgn	DRAWN	CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

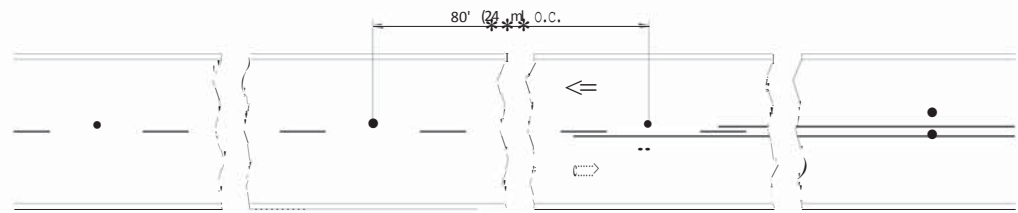
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

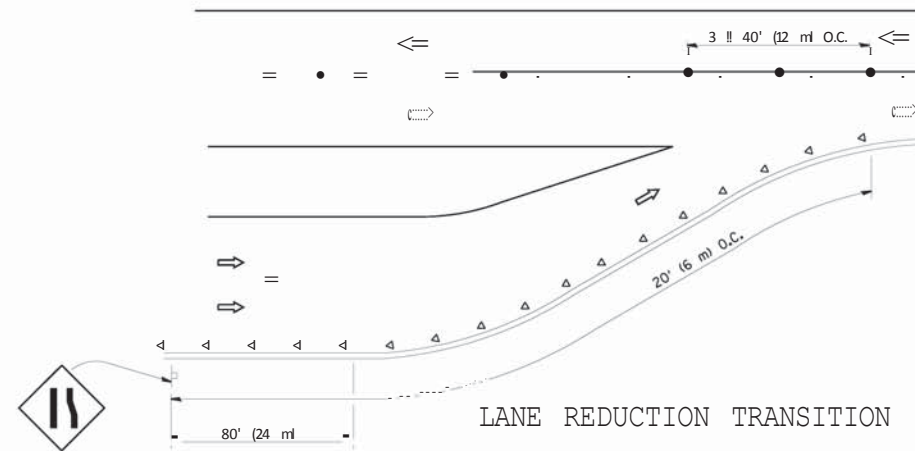
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	31
<b>TC-10</b>			<b>CONTRACT NO. 62C82</b>	
ILLINOIS FED. AID PROJECT				



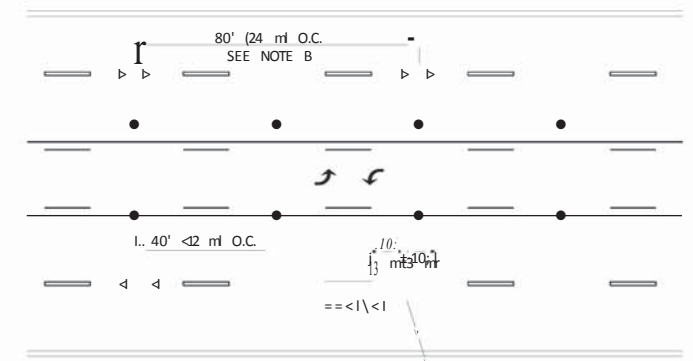


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 MPH (70 km/h) OR LESS.

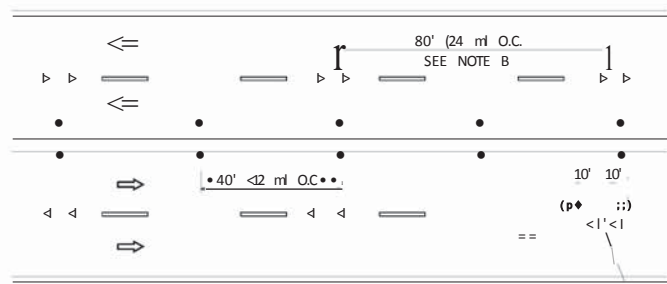
TWO-LANE/TWO-WAY



LANE REDUCTION TRANSITION

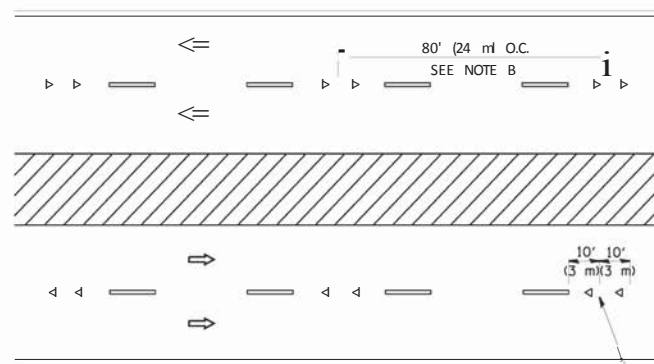


TWO-WAY LEFT TURN



SEE NOTE A\_i

MULTI-LANE/UNDIVIDED



SEE NOTE A\_i

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

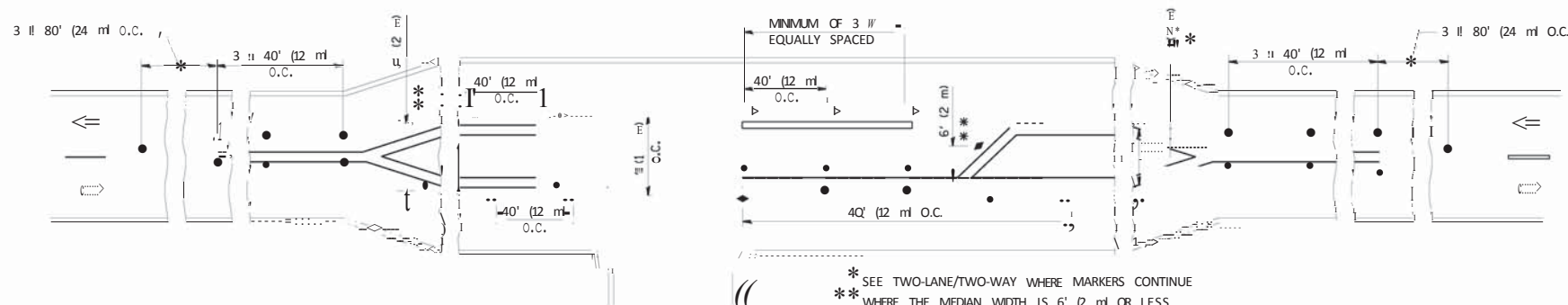
- YELLOW STRIPE
- WHITE STRIPE
- < ONE-WAY AMBER MARKER
- < ONE-WAY CRYSTAL MARKER (W/OI)
- + TWO-WAY AMBER MARKER

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 MPH (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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
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

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

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

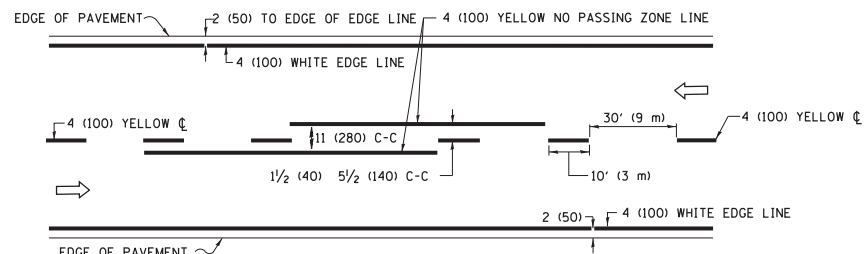
FILE NAME =	USER NAME =	DESIGNED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

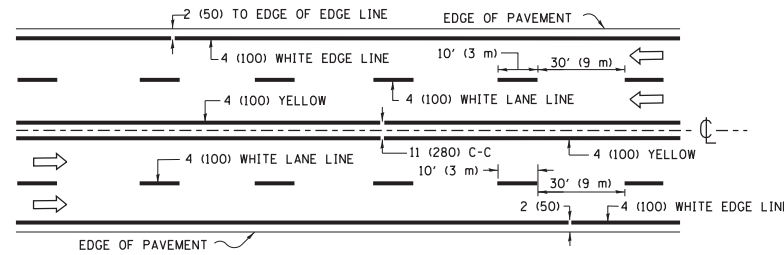
TYPICAL APPLICATIONS  
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

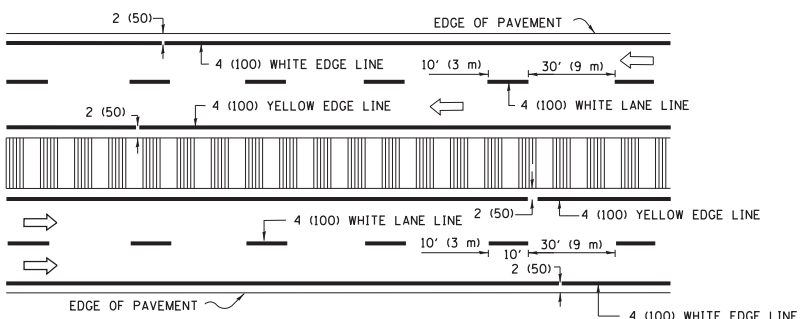
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	32
TC-11			CONTRACT NO.	62C82
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

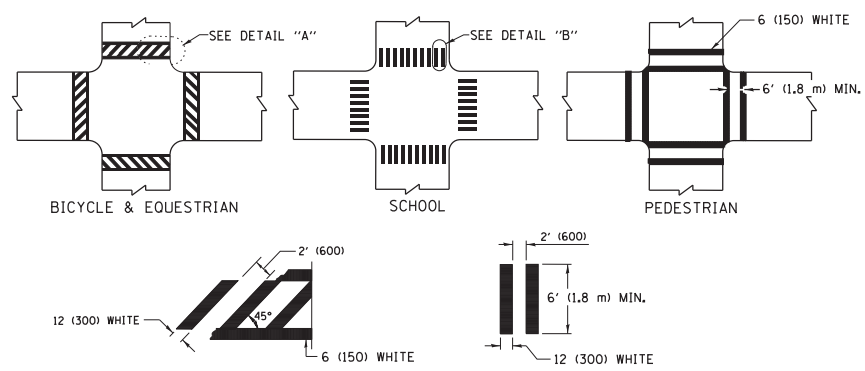


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

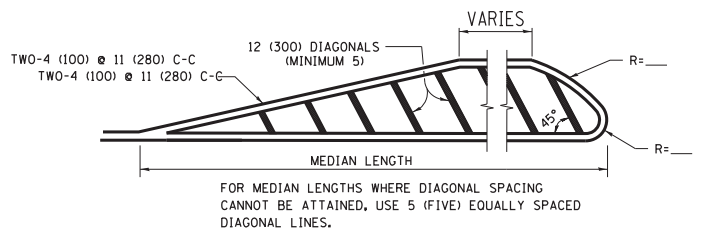
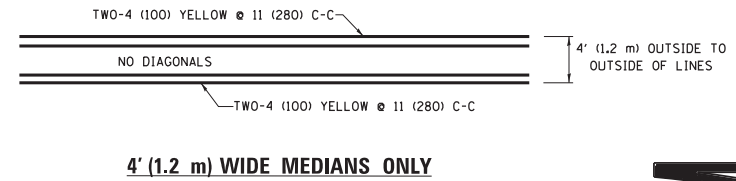


**DETAIL "A"**

**DETAIL "B"**

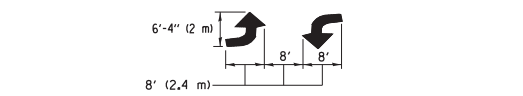
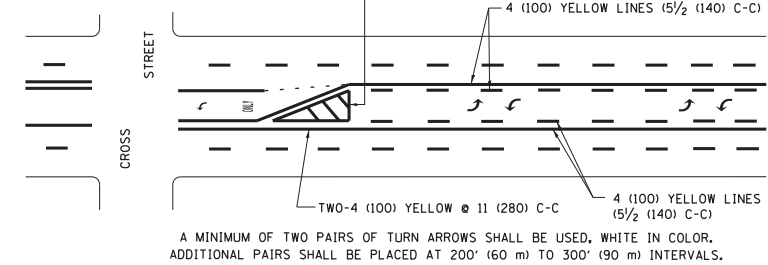
**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



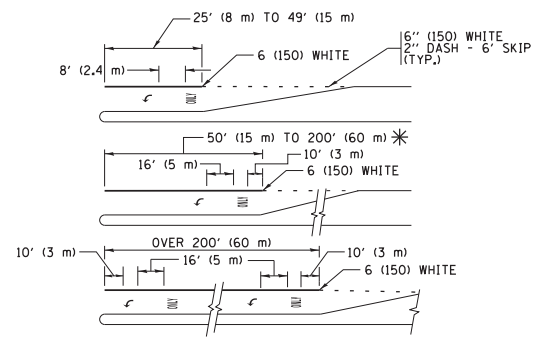
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

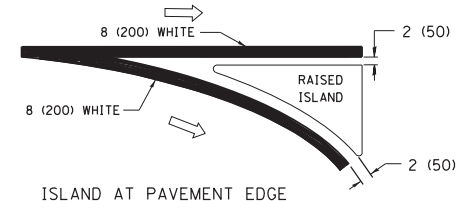
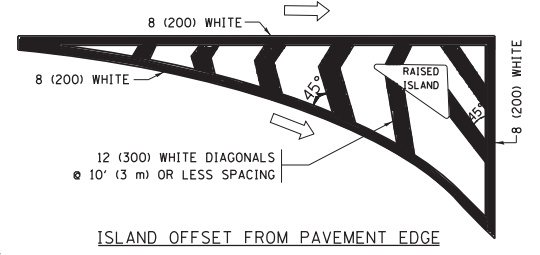


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

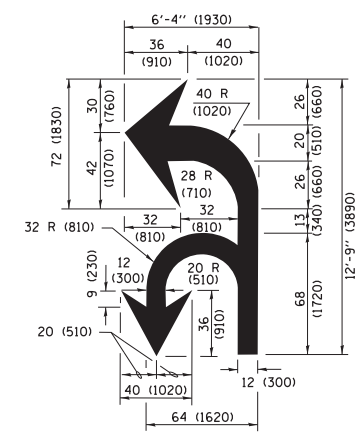
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

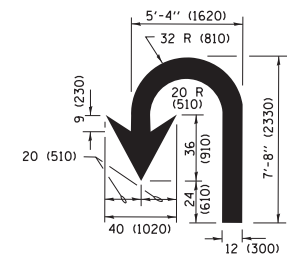
**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

FILE NAME =	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw:\IL084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\DRAWING\CADDData\CADsheets\tc13.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 50.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS**

**DEPARTMENT OF TRANSPORTATION**

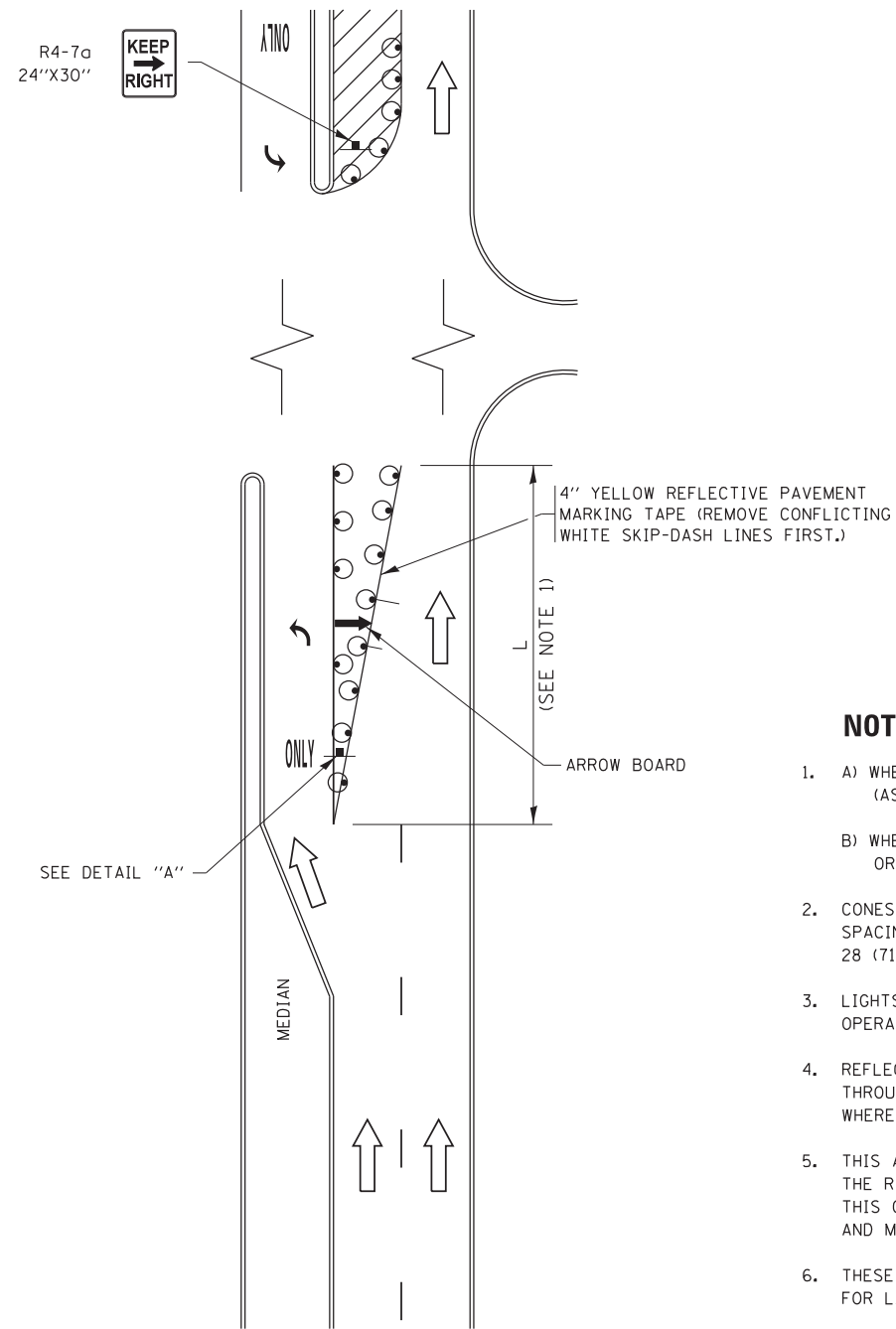
**DISTRICT ONE**

**TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

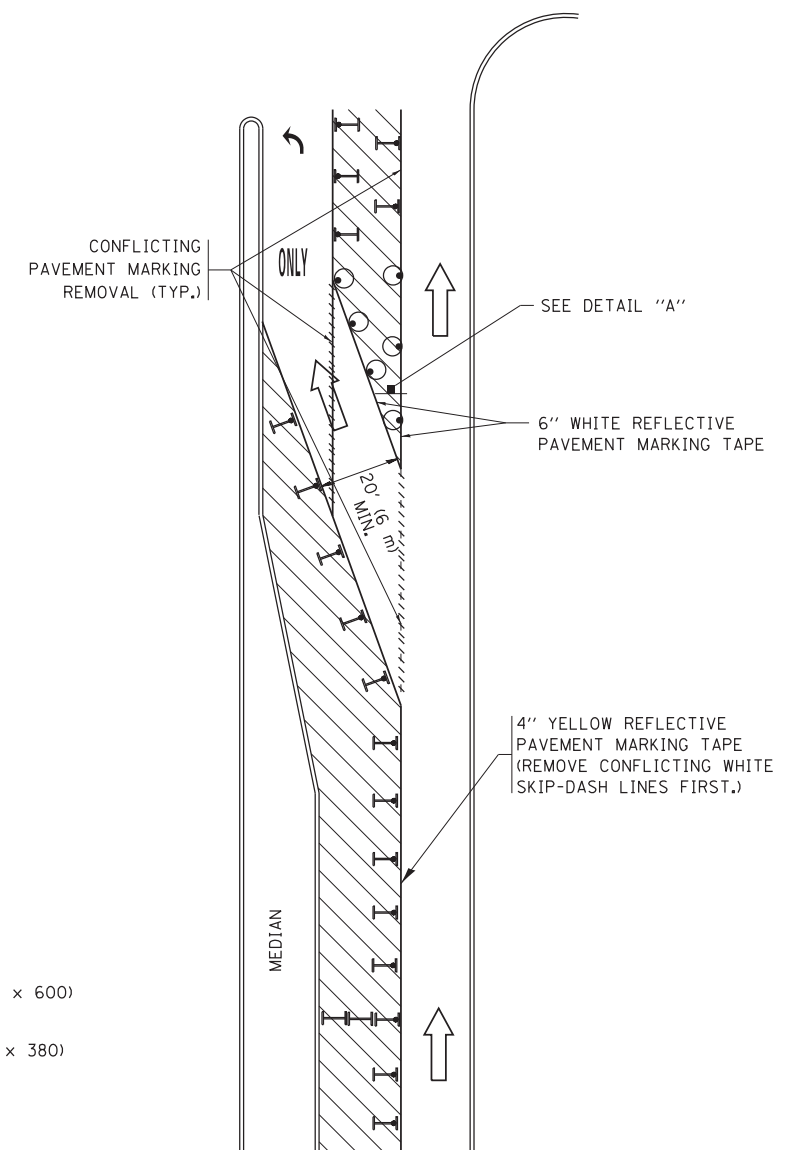
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	33
<b>TC-13</b>		CONTRACT NO.	62C82	
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



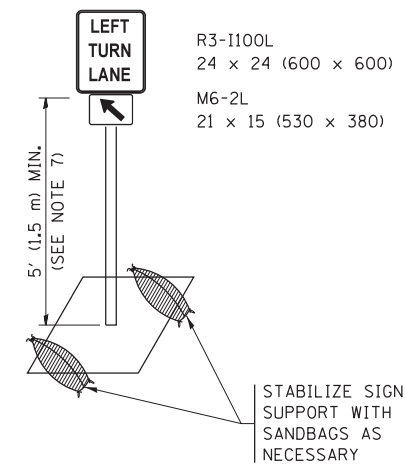
**FIGURE 2**

## LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

## NOTES:

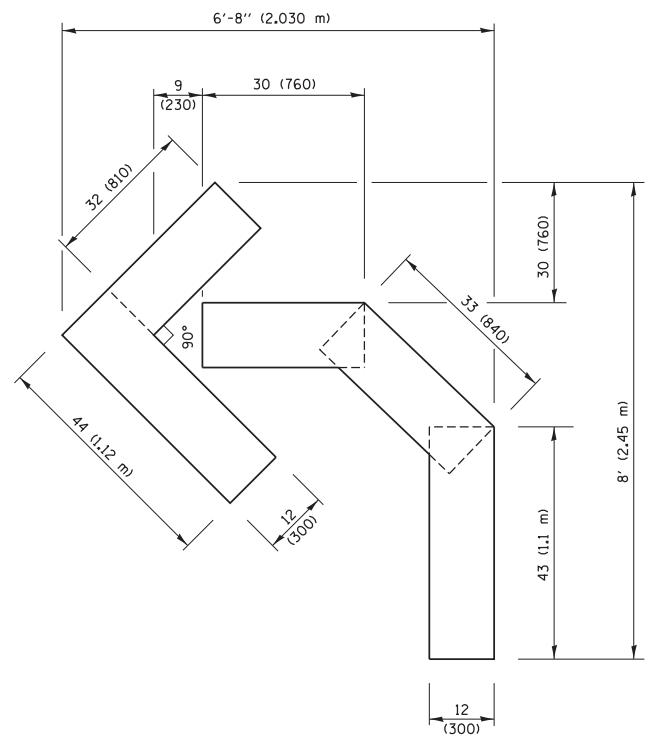
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



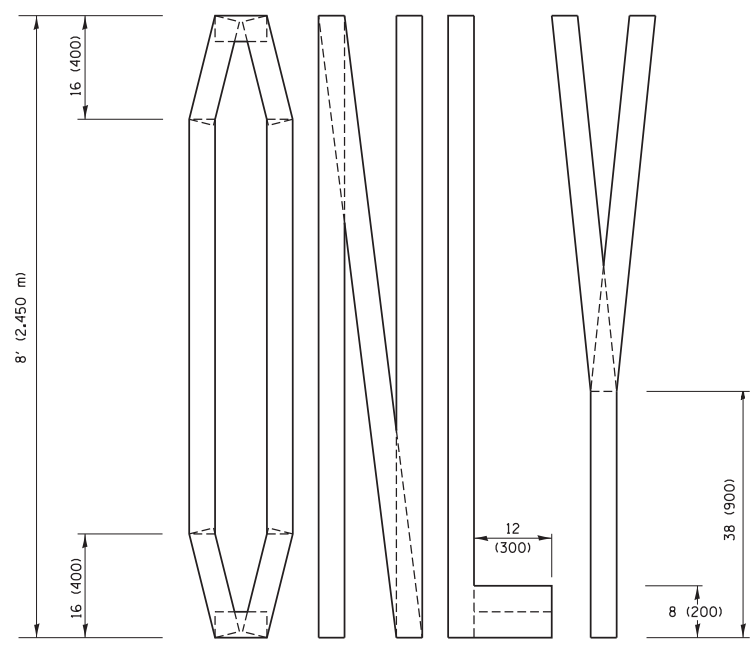
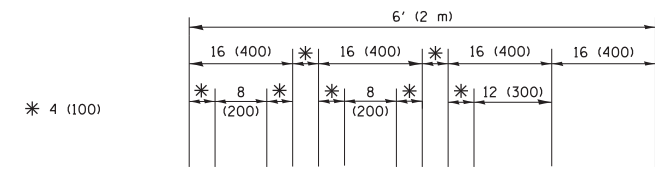
**DETAIL A**

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

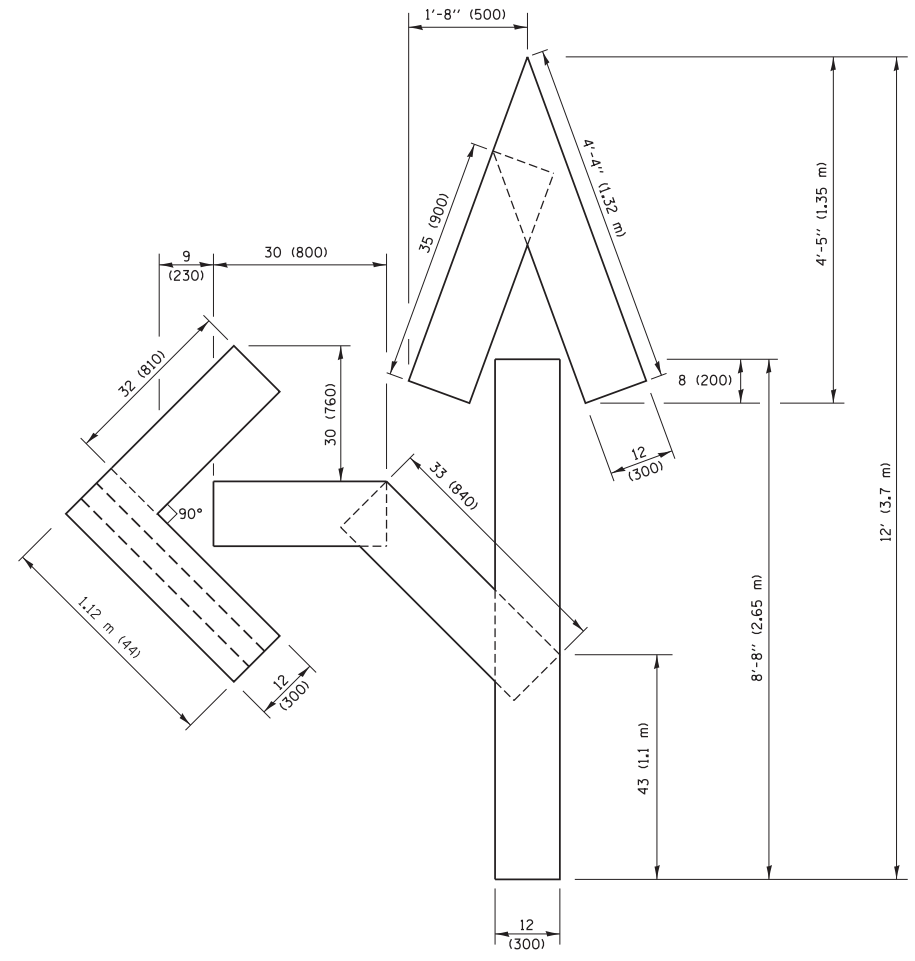
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13					1594	2016-027R	COOK	39	34
	PLOT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		<b>TC-14</b>			<b>CONTRACT NO. 62C82</b>				
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

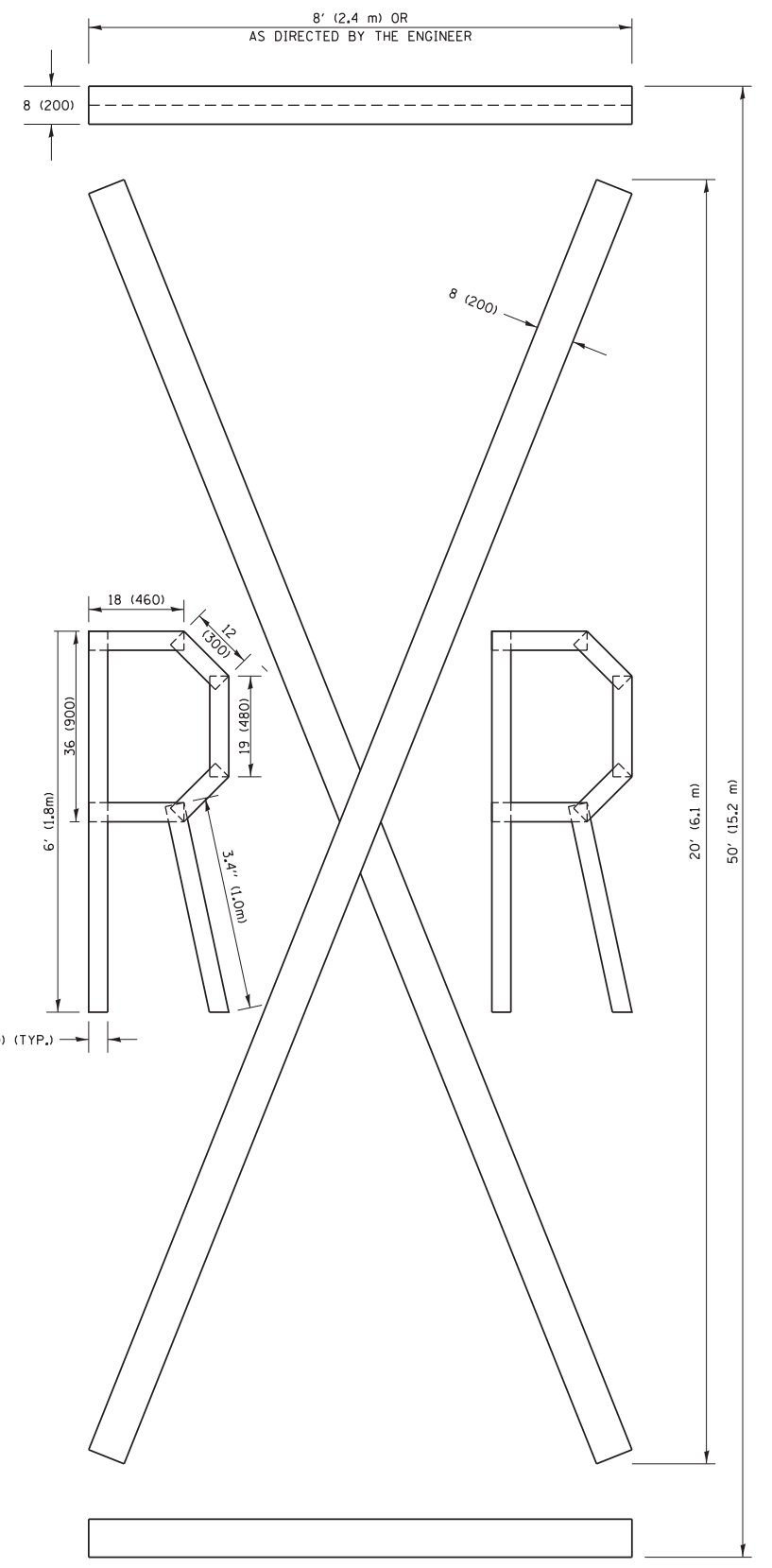


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

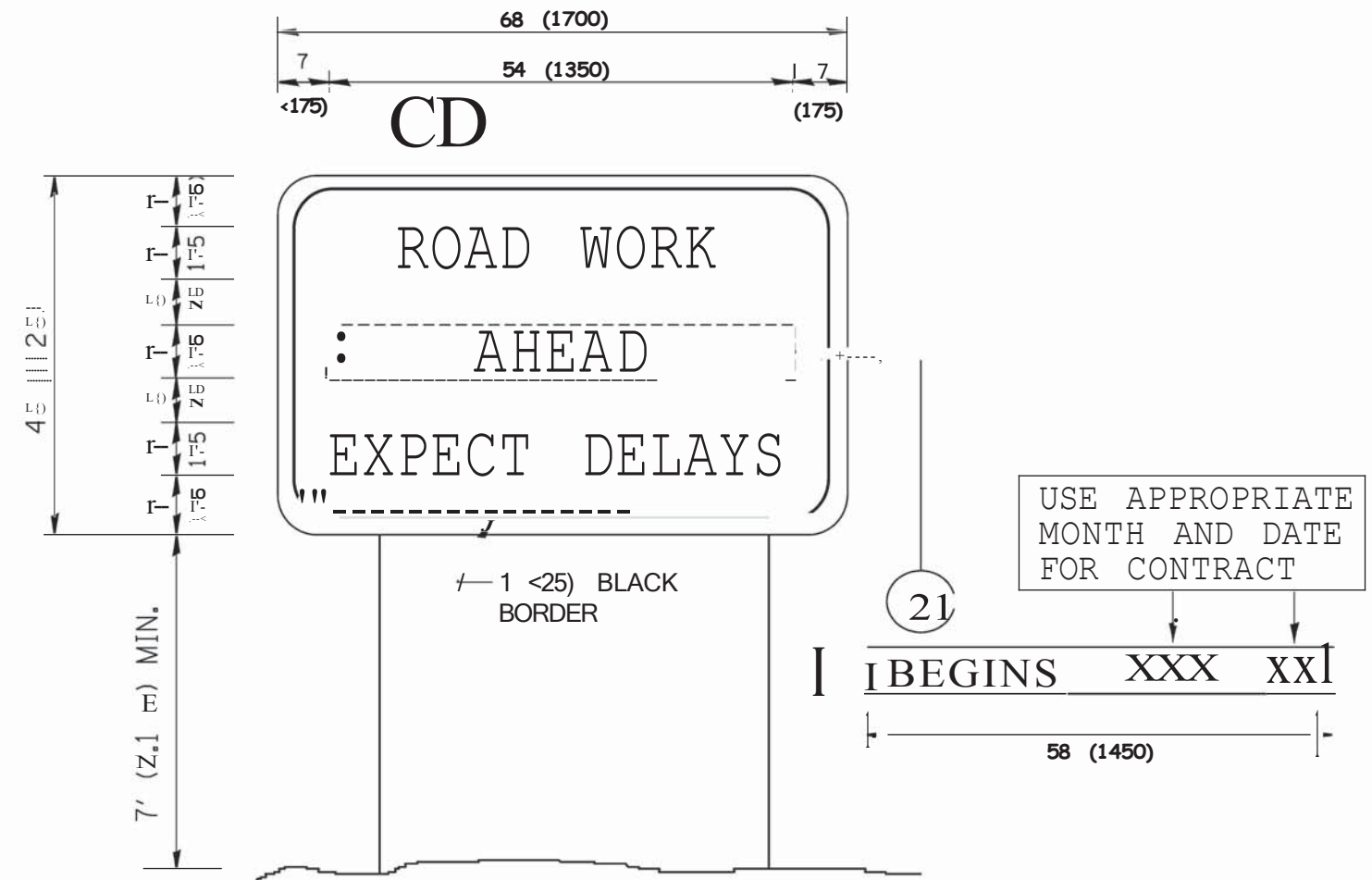
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
p:\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\Drawings\TC16.dgn		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE -	REVISED - E. GOMEZ 08-28-00
			REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	35
<b>TC-16</b>		<b>CONTRACT NO.</b>	62C82	
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 (Q) WITH INSTALLED PANEL@ ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL@ SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SO. FT. <2.3 SO. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = goghonobt	DESIGNED -	REVISED - R. MIRS 09-15-97
Wd1 etstd122x34 \ tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD  
INFORMATION SIGN

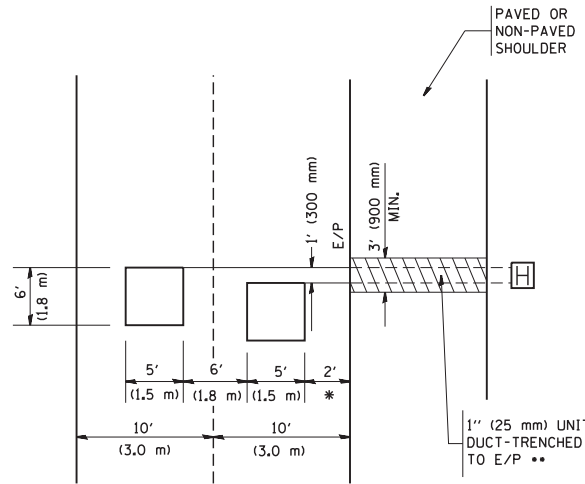
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	36
TC-22		CONTRACT NO.	62C82	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LOOPS NEXT TO SHOULDERS**

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



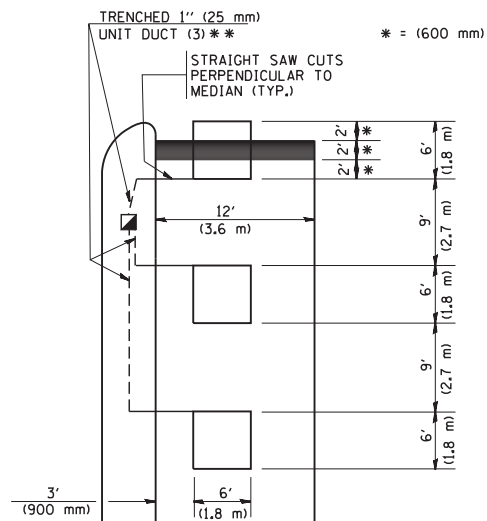
\* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



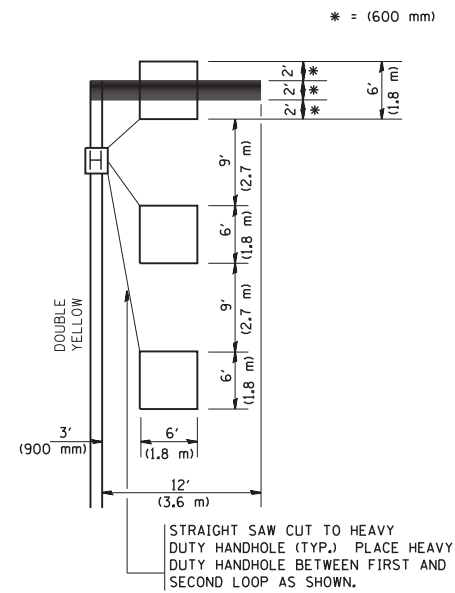
\* = (600 mm)

\*\* 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**

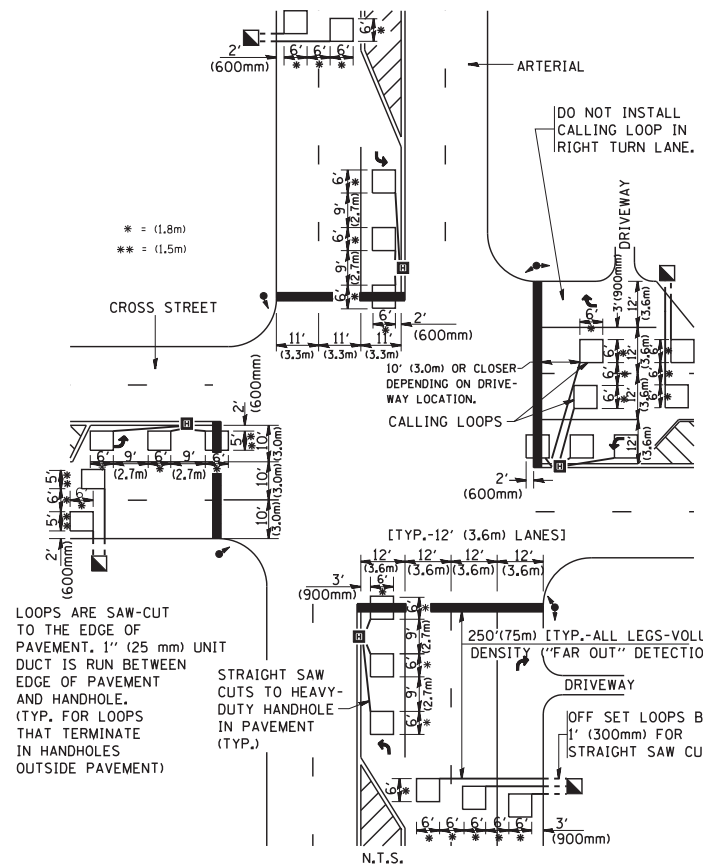
(PROTECTED / PERMITTED LEFT TURN PHASING)



\* = (600 mm)

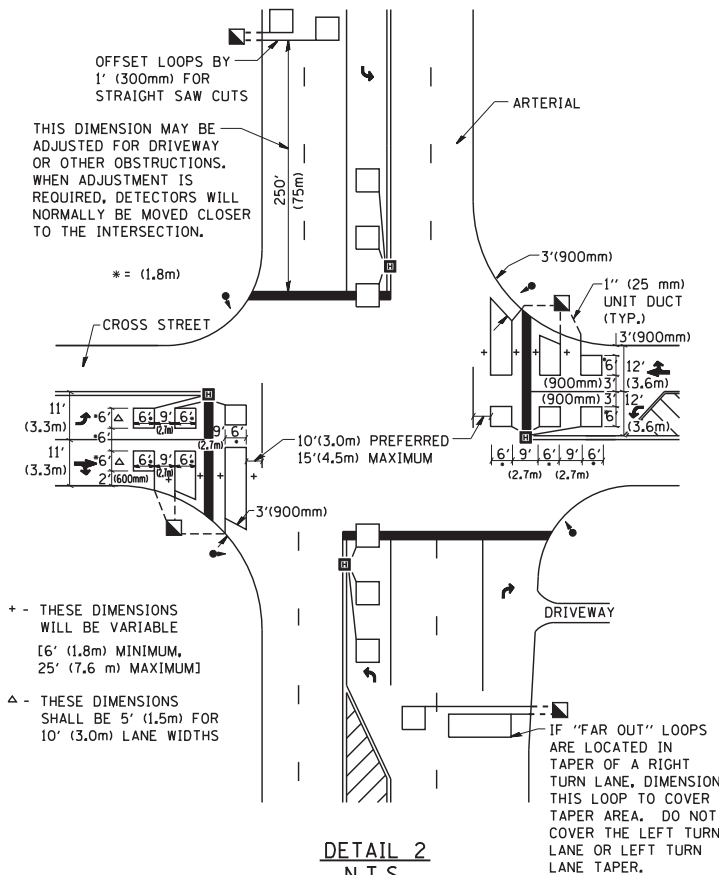
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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

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



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

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

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

**NOTE:**

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

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

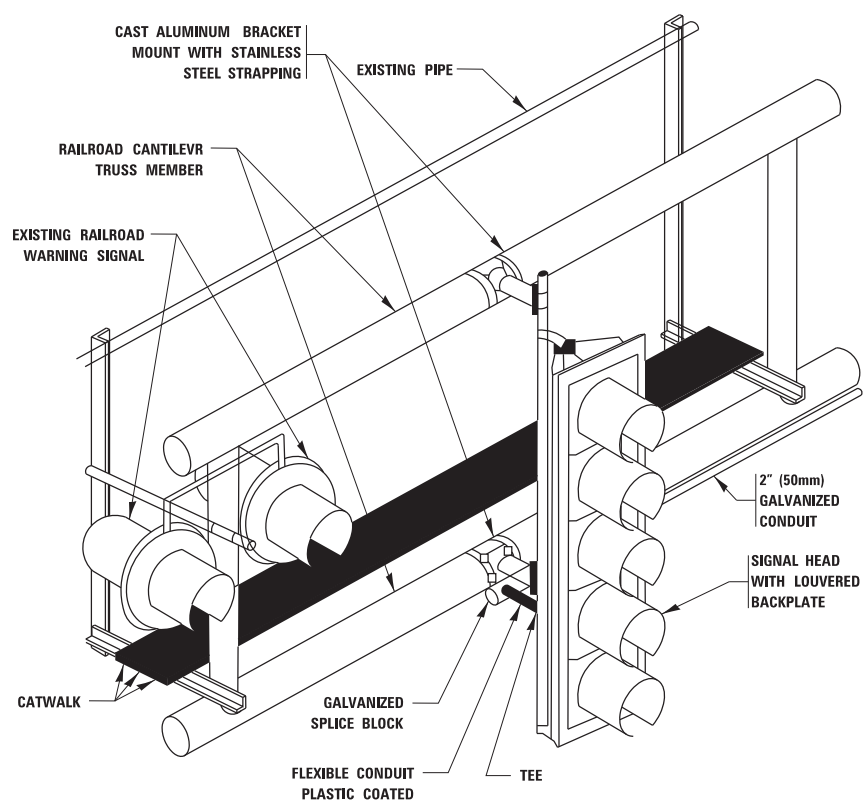
FILE NAME = W:\diststd\22x34\ts07.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED - R.K.F.	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	37
<b>TS-07</b>		<b>CONTRACT NO.</b>	62C82	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



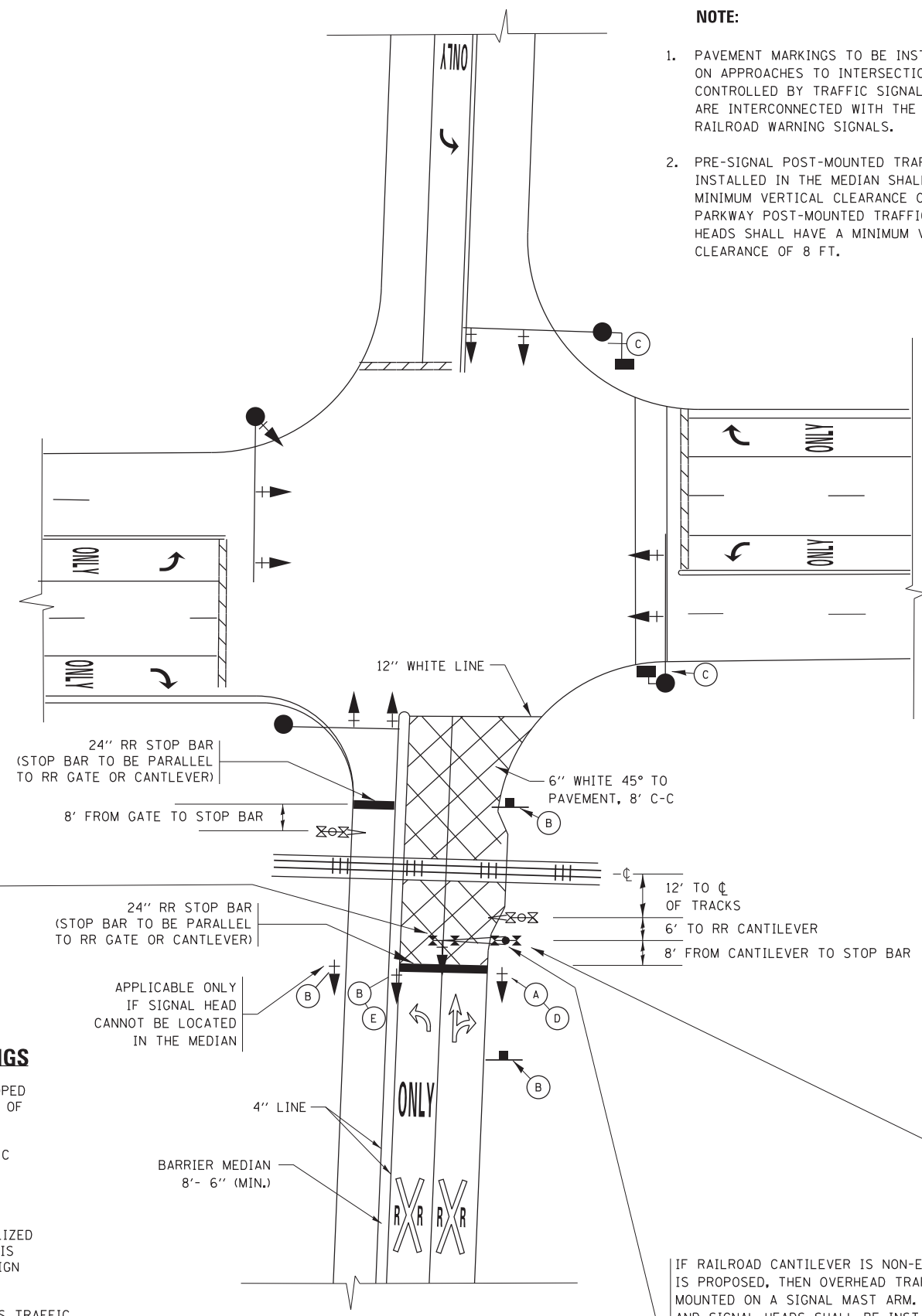
**RAILROAD CANTILEVER SIGNAL HEAD MOUNTING**  
 USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION  
 N.T.S.

**SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS**

SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

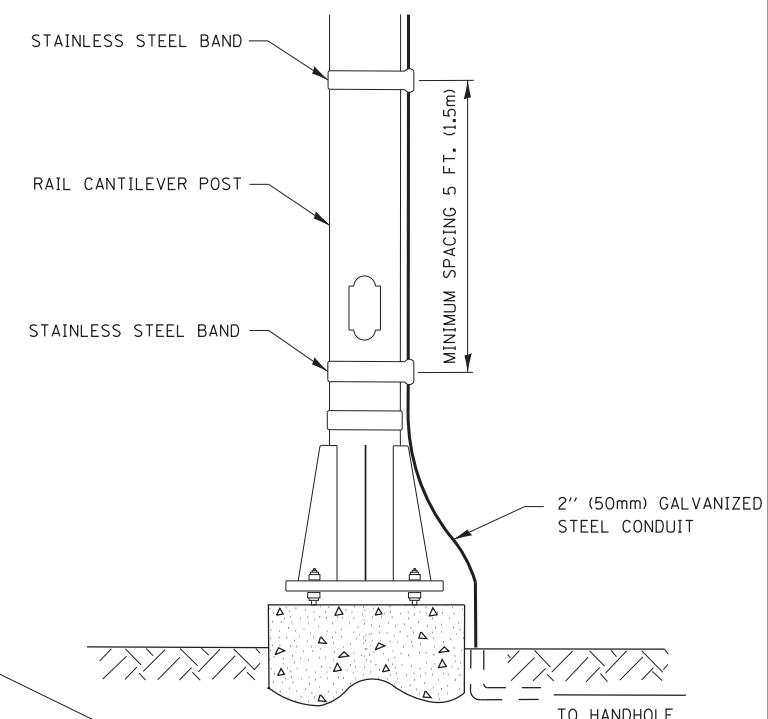
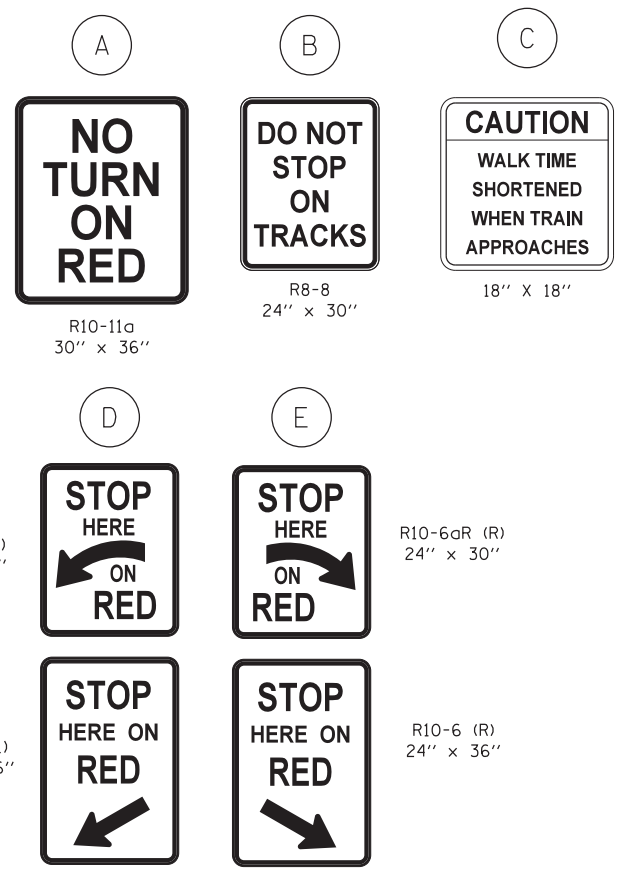
THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



**SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL**

- NOTE:**
- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  - PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.



**SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL**

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

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

IF RAILROAD CANTILEVER IS NON-EXISTANT AND NONE IS PROPOSED, THEN OVERHEAD TRAFFIC SIGNAL TO BE MOUNTED ON A SIGNAL MAST ARM. SIGNAL MAST ARM AND SIGNAL HEADS SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE RAILROAD TRACKS WITHOUT OBSTRUCTING ANY RAILROAD WARNING DEVICES. SIGNAL MAST ARM SHALL BE AT LEAST 12 FT. FROM NEAREST RAIL.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 02-25-11
pw:\IL084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\DRAWING\CADDData\CADsheets\tc23.dgn		CHECKED -	REVISED - 04-26-12
Default	PLOT SCALE = 50.000' / in.	DATE -	REVISED - A.R. 07-11-16
	PLOT DATE = 7/11/2016		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1594	2016-027R	COOK	39	38
TC-23			CONTRACT NO.	62C82
ILLINOIS FED. AID PROJECT				

