01-20-2017 LETTING ITEM 117

F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS		DuPAGE	28	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 61D40		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 2653 (SUMMIT AVENUE)
IL–38 (ROOSEVELT ROAD) TO MADISON STREET
RESURFACING
SECTION 16–00096–00–RS
PROJECT NO. M–4003(747)
VILLAGE OF VILLA PARK
DuPAGE COUNTY
JOB NO. C–91–288–16

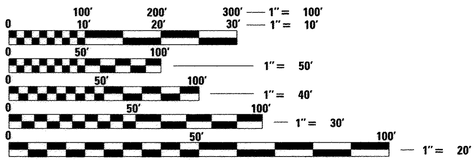
LOCATION OF SECTION INDICATED THUS: –■–

TRAFFIC DATA

2014 ADT: 13,900

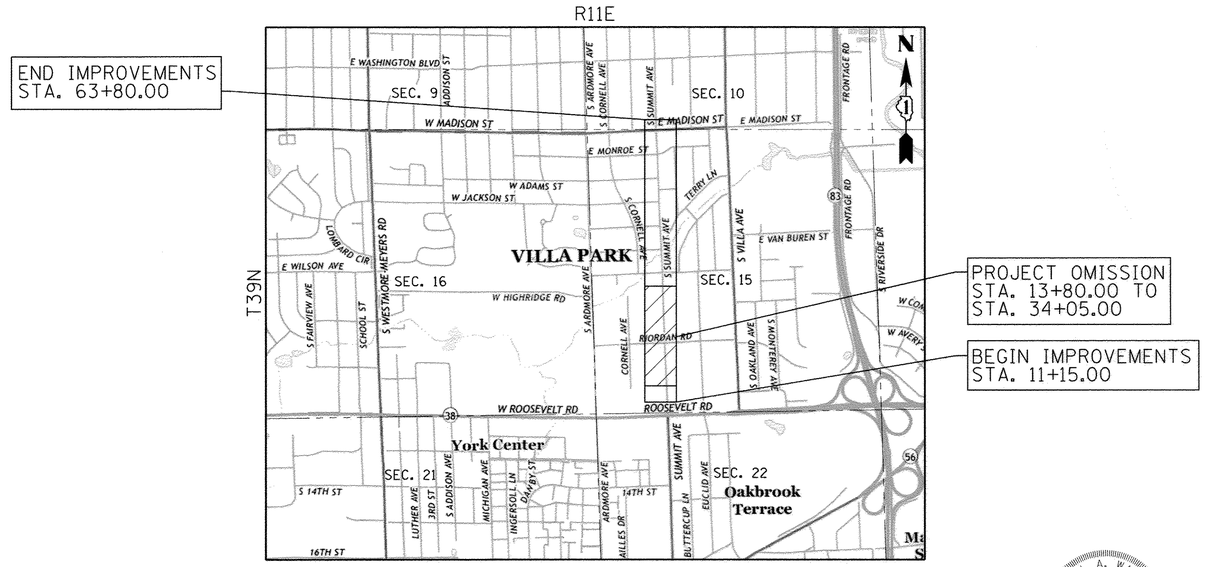
POSTED SPEED LIMIT: 30 MPH

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL



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



LOCATION MAP
NOT TO SCALE

GROSS AND NET LENGTH = 3,295 FT. = 0.624 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED October 13, 20 16
Wydar Jaskelis
VILLAGE OF VILLA PARK, DIRECTOR OF PUBLIC WORKS

PASSED NOVEMBER 2 20 16
Christopher Holt
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 3 20 16
John FitzSimmons jr
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705–4406, SCHAUMBURG, IL

PROJECT ENGINEER: PAUL A. WALTER, P.E.
PROJECT MANAGER: RONALD O. NORDMEYER, P.E.

CONTRACT NO. 61D40

PAUL A. WALTER
062-062752
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS
EXPIRES NOV. 30, 2017
Paul Walter
SIGNATURE
10-13-16
DATE

Clark Dietz
DESIGN FIRM REGISTRATION No. 184-000450
118 SOUTH CLINTON STREET
SUITE 700
CHICAGO, IL 60661
PHONE : 312.648.9900
www.clarkdietz.com

INDEX OF SHEETS

LIST OF DETAILS

-	VILLA PARK - DRIVEWAY APPROACH DETAILS
BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	DISTRICT 1 - ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN (SHEET 2 OF 7)
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

LIST OF HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS."

2. THE LOCATIONS OF PUBLIC OF PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENT ONLY THE OPINION OF THE VILLAGE. THEY ARE ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.

3. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT (630-834-8505), AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.

4. ONE (1) SET OF APPROVED PLANS AND SPECIFICATIONS MUST BE ON THE SITE AT ALL TIMES.

5. THE CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT (630-834-8505), AND THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.

6. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERETO.

7. ANY EROSION CONTROL MEASURES THAT ARE DEEMED NECESSARY BY THE ENGINEER SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.

8. PDFS OF THE LATEST FULL SIZE PLAN SET AND SPECIAL PROVISIONS WILL BE PROVIDED BY THE VILLAGE ON A CD WHICH WILL BE GIVEN TO THE GENERAL CONTRACTOR AT THE PRE-CONSTRUCTION CONFERENCE FOR THEIR USE. ADDITIONAL PAPER COPIES WILL NOT BE DISTRIBUTED BY THE ENGINEER.

9. THE DAY'S PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.

10. ANY GEOTECHNICAL INFORMATION PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY, AND DOES NOT GUARANTEE CONDITIONS WHICH WILL BE ENCOUNTERED IN THE FIELD.

11. PROPERTY LINES SHOWN ARE BASED ON VILLA PARK G.I.S. AND ARE APPROXIMATE.

12. ALL STATIONING ON THE PROJECT IS APPROXIMATE. ALL WORK LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

13. THE CONTRACTOR SHALL MEASURE THE LOCATION OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO REMOVAL. THE CONTRACTOR SHALL REPLACE THE PAVEMENT MARKING AS SHOWN ON THE PLANS.

14. THE R.O.W SHOWN IS FROM THE VILLA PARK GIS.

15. THE REMOVAL OF ANY DRIVEWAYS, PAVEMENT, CURB, SIDEWALK, ETC., SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPERATELY, BUT SHOULD BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E PHONE NUMBER IS: 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

COMMITMENTS

1. NONE.

FILE NAME = INDEX GENERAL NOTES.DGN	USER NAME = User:AAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - RON	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
INDEX OF SHEETS, STANDARDS, GENERAL NOTES, AND COMMITMENTS

SCALE: N.T.S. | SHEET 2 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	2
		CONTRACT NO. 61D40		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY STP FUNDS 75% FEDERAL/25% LOCAL 0005
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	43	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	128	
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1500	
	25200110	SODDING, SALT TOLERANT	SQ YD	1500	
△	28000510	INLET FILTERS	EACH	25	
△	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	43	
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	290	
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	328	
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	62	
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	38,198	
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	19	
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	700	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	218	
△	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,426	
△	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	290	
△	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	7,656	
	42400800	DETECTABLE WARNINGS	SQ FT	300	
	44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	12,733	
△	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	618	
△	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,736	
△	44000600	SIDEWALK REMOVAL	SQ FT	7,840	
	44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	192	
	44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	765	
	44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	318	
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	
	60262700	INLETS TO BE RECONSTRUCTED	EACH	2	
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	
△	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	14	
	60404800	FRAMES AND GRATES, TYPE 11	EACH	2	
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	
△	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY STP FUNDS 75% FEDERAL/25% LOCAL 0005
△	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,715	
△	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	19	
	67100100	MOBILIZATION	LSUM	1	
	72000100	SIGN PANEL - TYPE 1	SQ FT	103	
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	103	
*	78000100	THERMOPLASIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,148	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	135	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	239	
△*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	40	
△	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	25	
△	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	
△	X6030205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	19	
△	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	
△	Z0004514	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	328	
△	Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	62	
△	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	

LEGEND

△ = SPECIAL PROVISION

* = SPECIALITY ITEMS

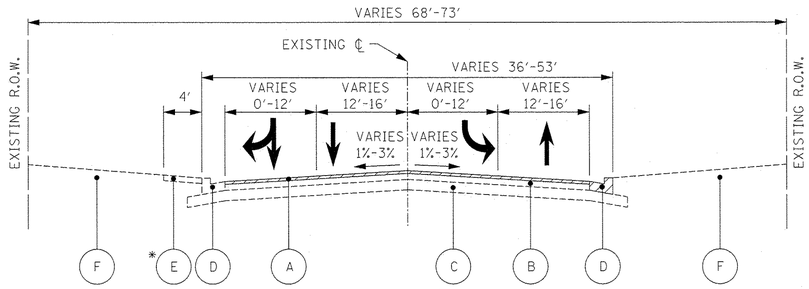
FILE NAME = SUMMARY OF QUANTITIES.DGN	USER NAME = User:AAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
Default	PLOT SCALE = 1.0000 '/ in.	CHECKED - RON	REVISED -
	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

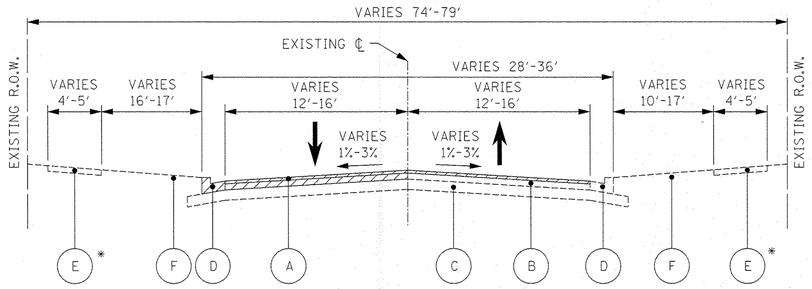
SUMMIT AVENUE RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 3 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	3
		CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		



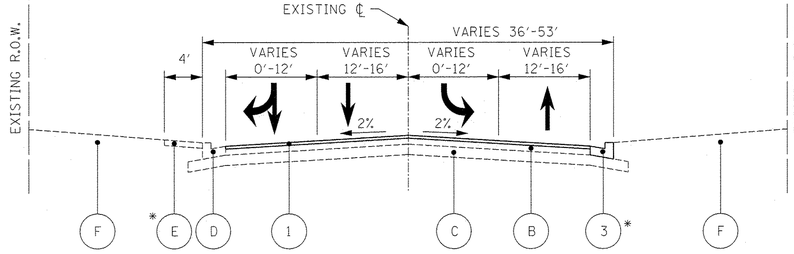
EXISTING TYPICAL SECTION
SUMMIT AVENUE
STA. 11+15.00 TO 13+80.00



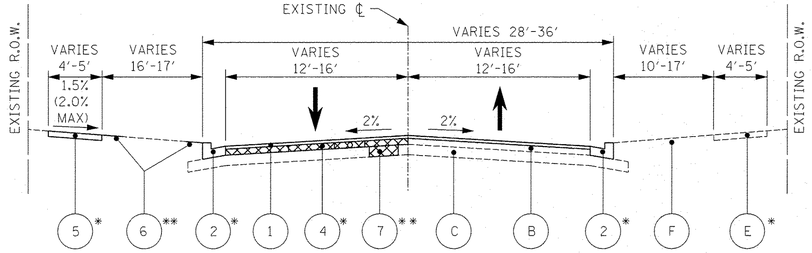
EXISTING TYPICAL SECTION
SUMMIT AVENUE
STA. 34+05.00 TO 63+80.00

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE - VARIES 1''-2''
- (B) HOT-MIX ASPHALT BINDER COURSE - VARIES 2''-6''
- (C) CRUSHED LIMESTONE BASE - VARIES 6''-14''
- (D) CONCRETE CURB AND GUTTER - VARIES
- (E) PCC SIDEWALK
- (F) EXISTING PARKWAY



PROPOSED TYPICAL SECTION
SUMMIT AVENUE
STA. 11+15.00 TO 13+80.00



PROPOSED TYPICAL SECTION
SUMMIT AVENUE
STA. 34+05.00 TO 63+80.00

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE REMOVAL 3''
  POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1''
  HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N70, 2''
- (2) CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) CONCRETE CURB AND GUTTER, TYPE B-6.24
- (4) CLASS D PATCHES, 6 INCH
- (5) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (6) SODDING, SALT TOLERANT & TOPSOIL FURNISH AND PLACE, 4''
- (7) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
  GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
  AGGREGATE SUBGRADE IMPROVEMENT

NOTE:
THE EXISTING PAVEMENT MATERIALS AND THICKNESSES WERE OBTAINED FROM PAVEMENT CORES. THIS REPRESENTS THE BEST AVAILABLE EXISTING PAVEMENT INFORMATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PAY ITEMS RELATED TO EXISTING PAVEMENT DUE TO VARIATIONS IN EXISTING PAVEMENT MATERIALS OR THICKNESS.

* AT LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER

** AS DIRECTED BY THE ENGINEER

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N70 (IL 9.5 mm), 2''	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1''	3.5% @ 50 Gyr.
PAVEMENT PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 Gyr.
DRIVEWAYS	
HMA SURFACE COURSE, MIX D, N50 (IL 9.5 mm); PE - 4'', CE - 6''	4% @ 50 Gyr.

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 SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
FOR HMA FULL DEPTH ''AC TYPE'' SEE SPECIAL PROVISIONS.

FILE NAME = TYPICAL SECTIONS.DGN	USER NAME = User:AAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
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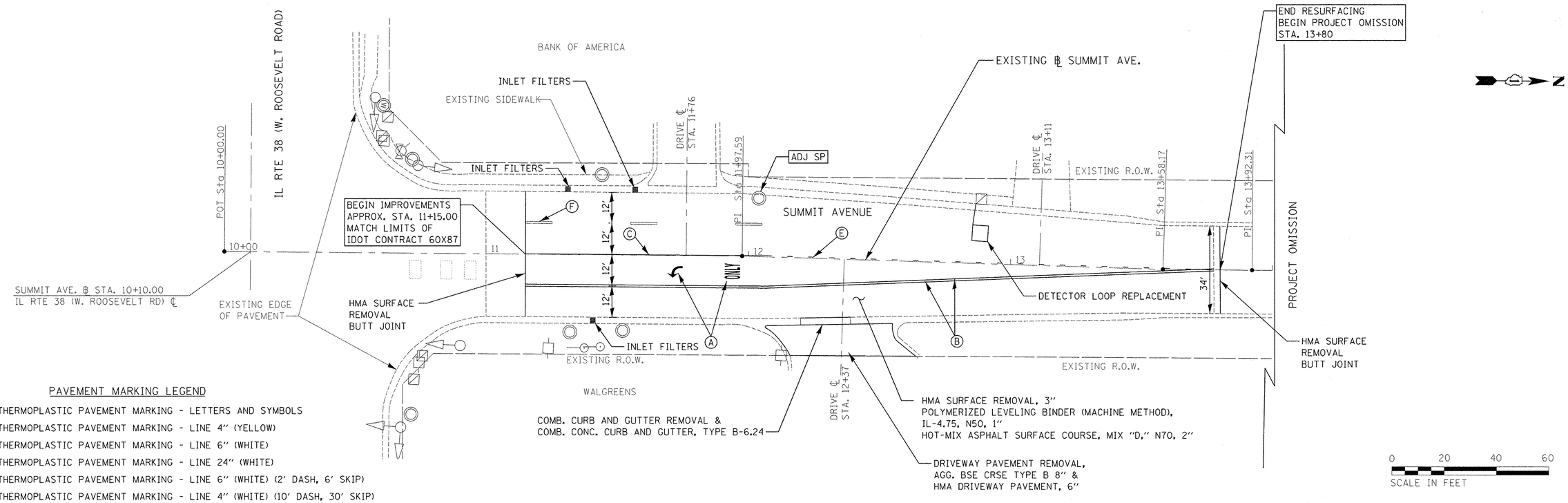
	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
TYPICAL SECTIONS

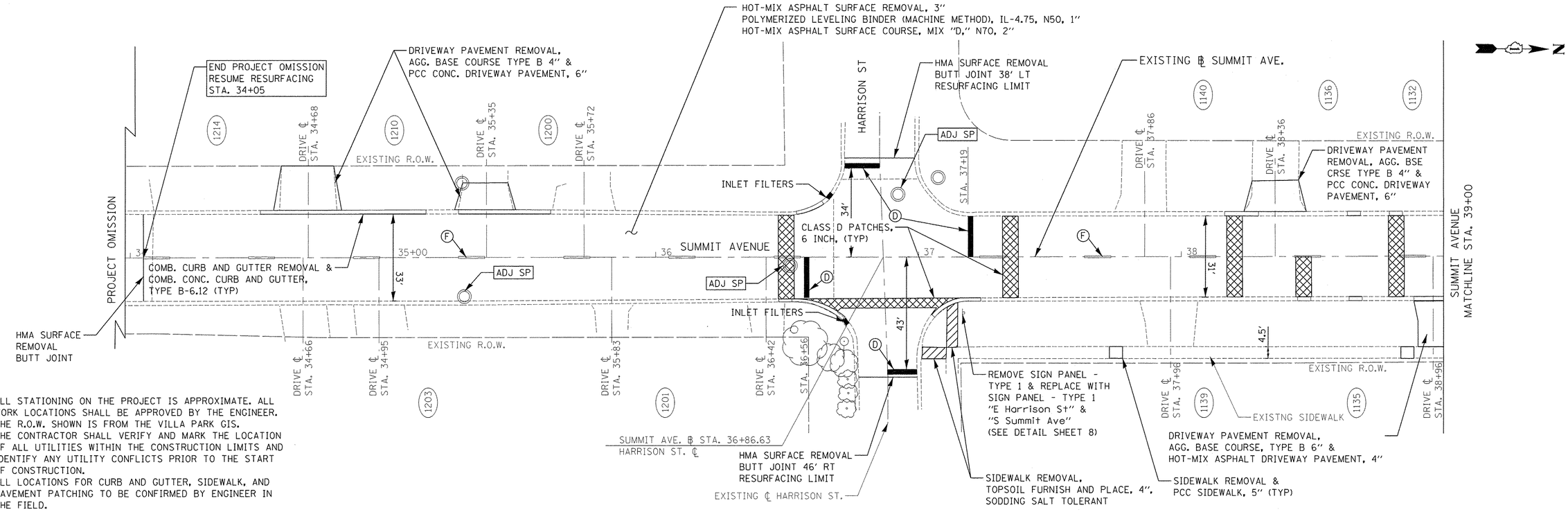
SCALE: N.T.S. | SHEET 4 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	4
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (2' DASH, 6' SKIP)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH, 30' SKIP)



NOTES

1. ALL STATIONING ON THE PROJECT IS APPROXIMATE. ALL WORK LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. THE R.O.W. SHOWN IS FROM THE VILLA PARK GIS.
3. THE CONTRACTOR SHALL VERIFY AND MARK THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION LIMITS AND IDENTIFY ANY UTILITY CONFLICTS PRIOR TO THE START OF CONSTRUCTION.
4. ALL LOCATIONS FOR CURB AND GUTTER, SIDEWALK, AND PAVEMENT PATCHING TO BE CONFIRMED BY ENGINEER IN THE FIELD.

FILE NAME = PLAN SHEET.DGN	USER NAME = User:AAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
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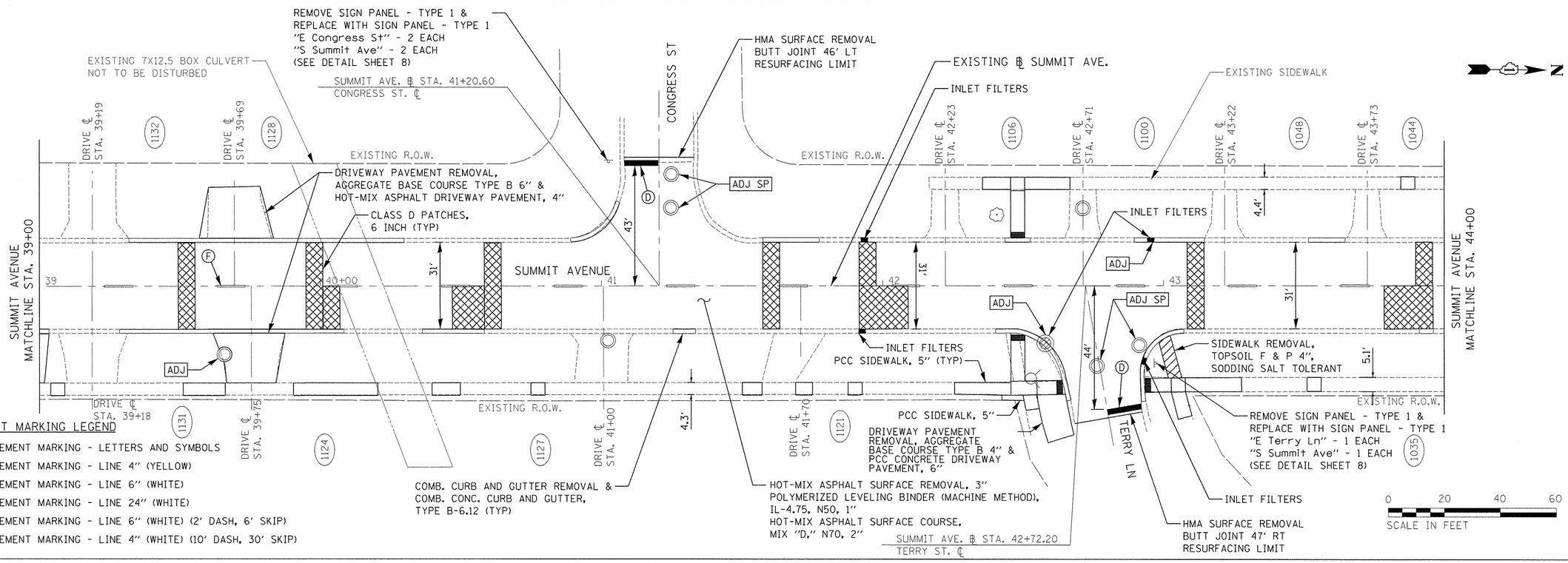
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
ROADWAY PLAN

SCALE: 1"=20' | SHEET 5 OF 28 SHEETS | STA. 11+15 TO STA. 39+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	5
		CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
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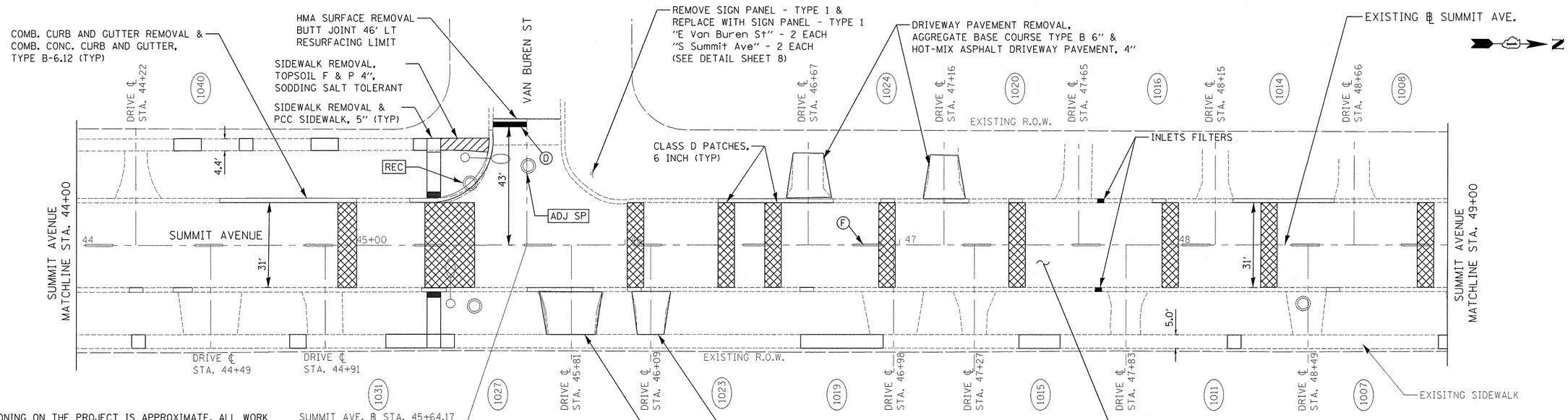

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FILE NAME = PLAN SHEET.DGN	USER NAME = UserAAcevedo	DESIGNED - PAW	REVISED -
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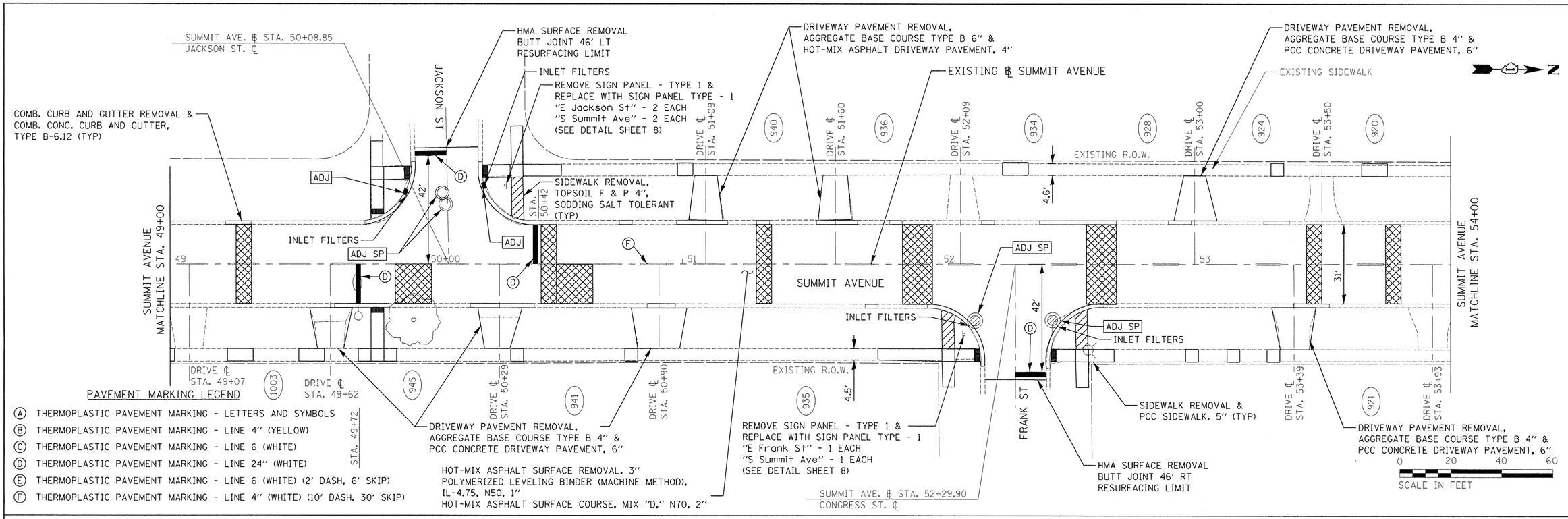
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
ROADWAY PLAN

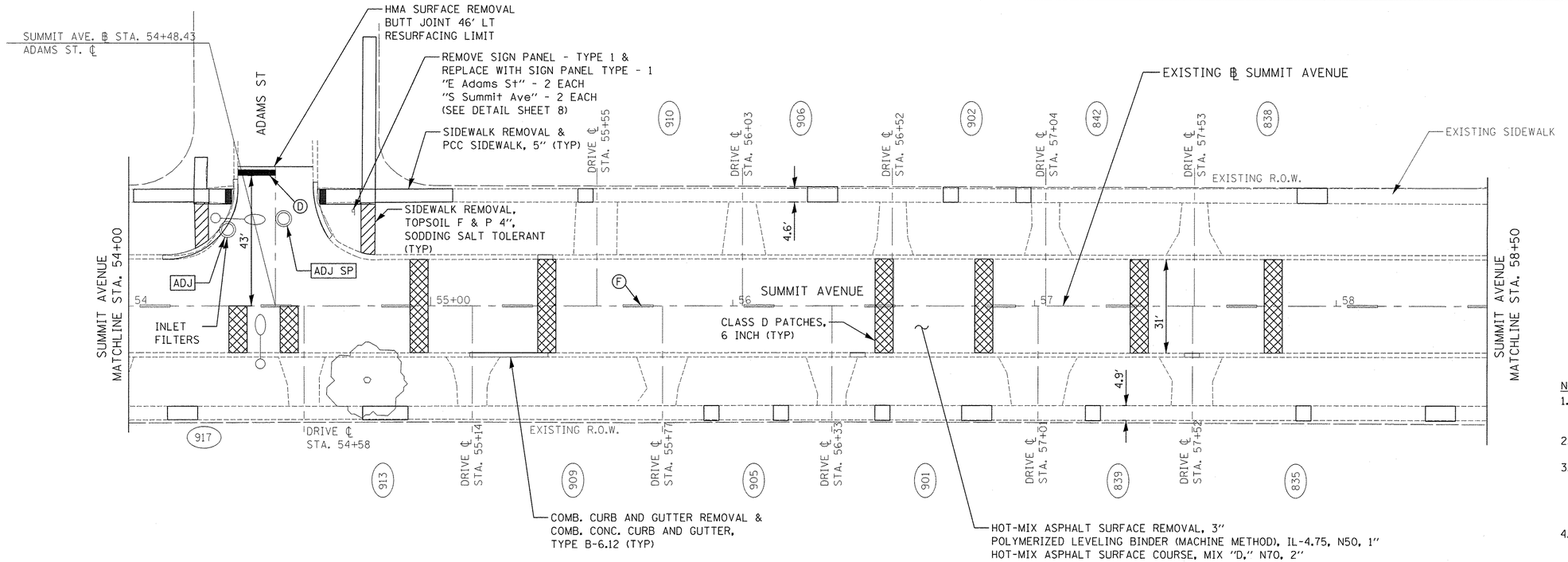
SCALE: 1"=20' | SHEET 6 OF 28 SHEETS | STA. 39+00 TO STA. 49+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	6
		CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 6 (WHITE)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6 (WHITE) (2' DASH, 6' SKIP)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH, 30' SKIP)



NOTES

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4. ALL LOCATIONS FOR CURB AND GUTTER, SIDEWALK, AND PAVEMENT PATCHING TO BE CONFIRMED BY ENGINEER IN THE FIELD.

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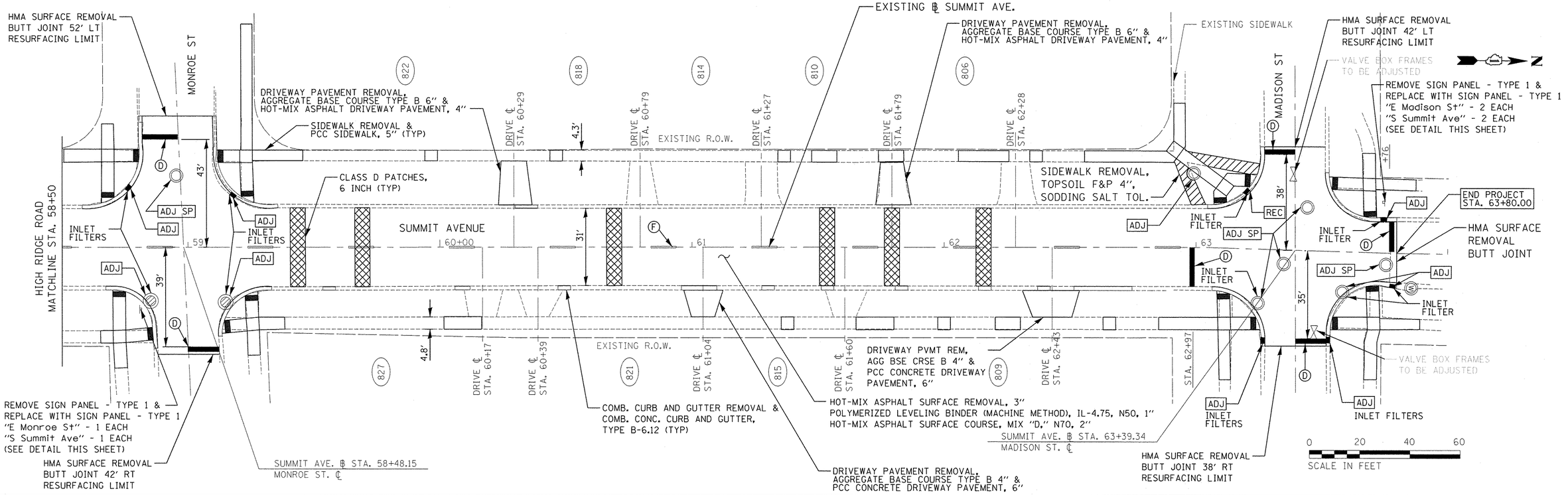
		DRAWN - JSH	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - RON	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
ROADWAY PLAN

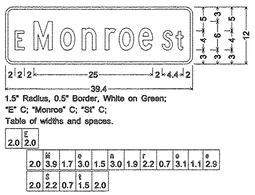
SCALE: 1"=20' | SHEET 7 OF 28 SHEETS | STA. 49+00 TO STA.58+50

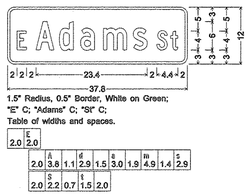
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	7
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

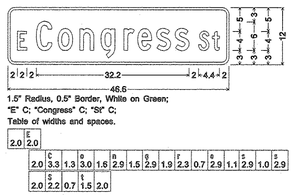


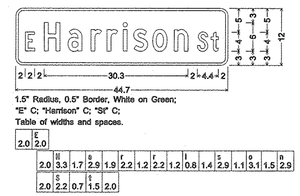
PAVEMENT MARKING LEGEND

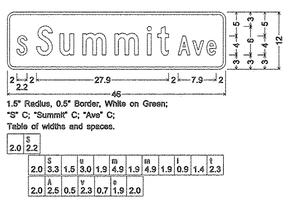
- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (2' DASH, 6' SKIP)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH, 30' SKIP)

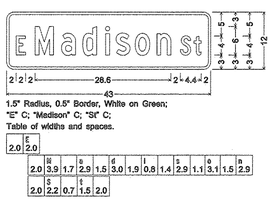


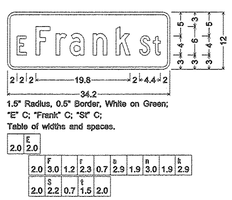


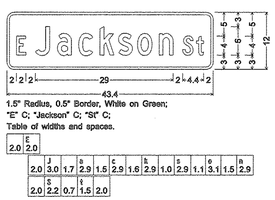


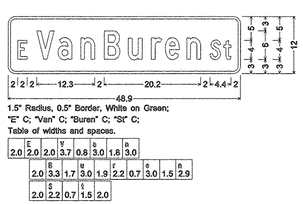


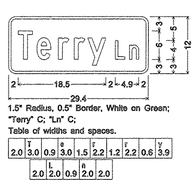












SIGN SCHEDULE

LOCATION	TYPE	72000100 SIGN PANEL TYPE 1 (SQ FT)	COMMENTS
NW CORNER SUMMIT & MADISON			
"S Summmit Ave"	D3-1	7.7	TWO NEW SIGNS INSTALLED ON EXISTING STOP SIGN POST, SIGN SIZE = 46"x12"
"E Madison St"	D3-1	7.2	TWO NEW SIGNS INSTALLED ON EXISTING STOP SIGN POST, SIGN SIZE = 43"x12"
SE CORNER SUMMIT & MONROE			
"S Summmit Ave"	D3-1	3.8	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 46"x12"
"E Monroe St"	D3-1	3.3	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 39.4"x12"
NW CORNER SUMMIT & ADAMS			
"S Summmit Ave"	D3-1	7.7	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 46"x12"
"E Adams St"	D3-1	6.3	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 37.8"x12"
SE CORNER SUMMIT & FRANK			
"S Summmit Ave"	D3-1	3.8	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 46"x12"
"E Frank St"	D3-1	2.9	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 34.2"x12"
NW CORNER SUMMIT & JACKSON			
"S Summmit Ave"	D3-1	7.7	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 46"x12"
"E Jackson St"	D3-1	7.2	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 43.4"x12"
NW CORNER SUMMIT & VAN BUREN			
"S Summmit Ave"	D3-1	7.7	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 46"x12"
"E Van Buren St"	D3-1	8.2	TWO NEW SIGNS INSTALLED ON EXISTING SIGN POST, SIGN SIZE = 48.9"x12"
NE CORNER SUMMIT & TERRY			
"S Summmit Ave"	D3-1	3.8	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 46"x12"
"E Terry Ln"	D3-1	2.5	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 29.4"x12"
SW CORNER SUMMIT & CONGRESS			
"S Summmit Ave"	D3-1	7.7	TWO NEW SIGNS INSTALLED ON EXISTING STOP SIGN POST, SIGN SIZE = 46"x12"
"E Congress St"	D3-1	7.8	TWO NEW SIGNS INSTALLED ON EXISTING STOP SIGN POST, SIGN SIZE = 46.6"x12"
NE CORNER SUMMIT & HARRISON			
"S Summmit Ave"	D3-1	3.8	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 46"x12"
"E Harrison St"	D3-1	3.7	NEW SIGN INSTALLED ON EXISTING LIGHT POLE, SIGN SIZE = 44.7"x12"
TOTAL		102.8	

NOTES

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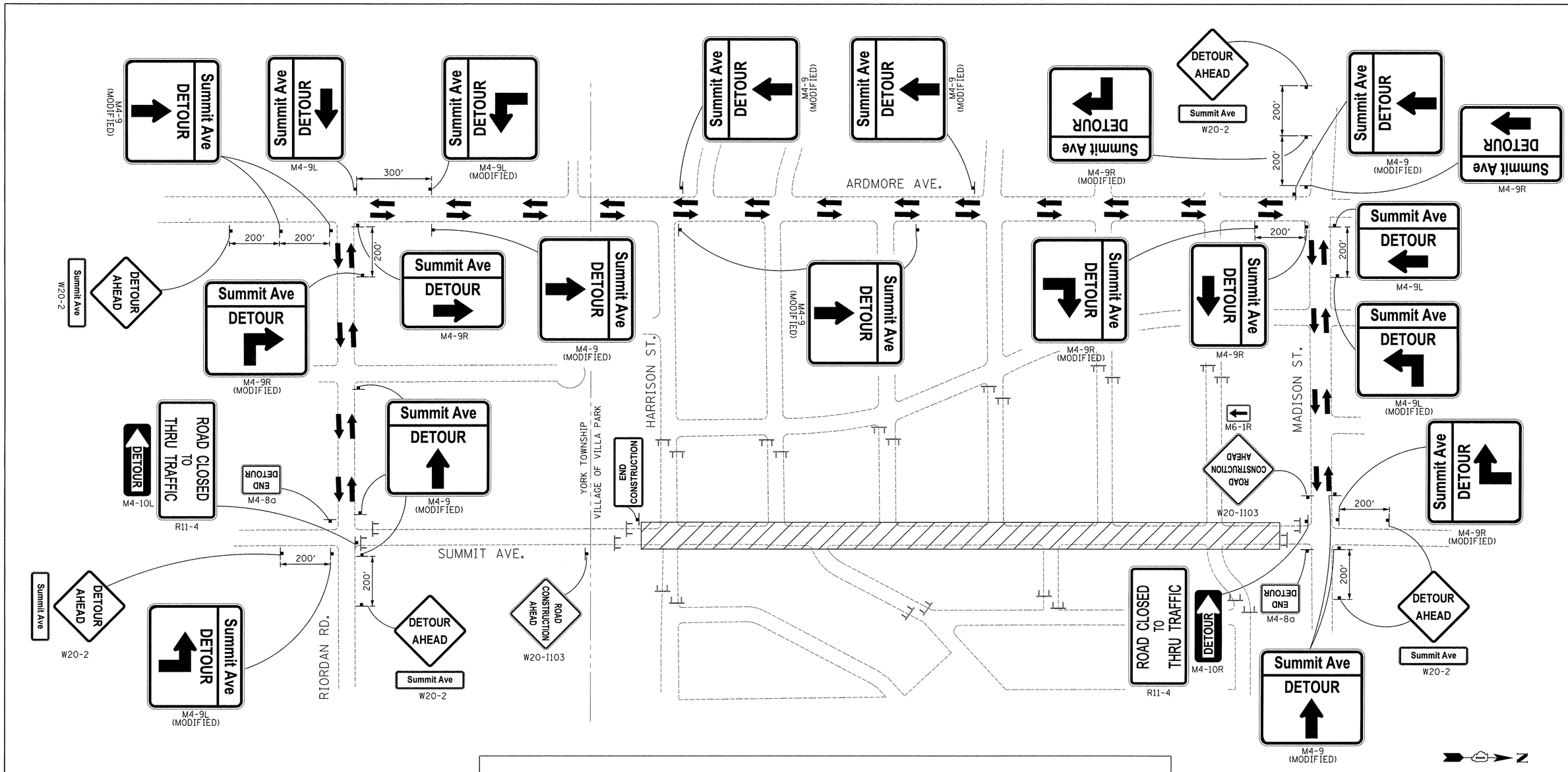
FILE NAME = PLAN SHEET.DGN	USER NAME = User:AAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - RON	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

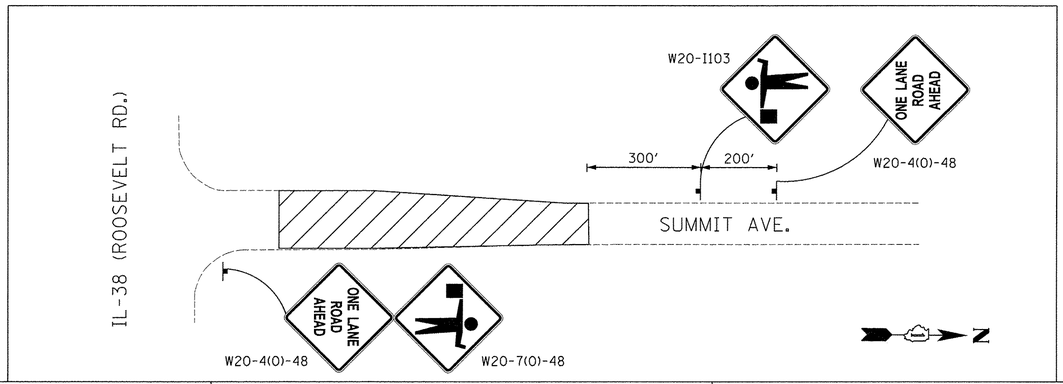
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
ROADWAY PLAN

SCALE: 1"=20' | SHEET 8 OF 28 SHEETS | STA. 58+50 | TO STA. 63+79.67

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	8
		CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		





NOTES:

1. DETOUR IS ON LOCAL ROADS.
2. THE CONTRACTOR SHALL NOTIFY AND OBTAIN ANY PERMITS FROM YORK TOWNSHIP HIGHWAY DEPARTMENT 14 DAYS PRIOR TO INSTALLATION OF THE DETOUR.
3. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE VILLAGE OF VILLA PARK AND YORK TOWNSHIP HIGHWAY DEPARTMENT.
4. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
5. STATE HIGHWAY STANDARDS FOR TRAFFIC CONTROL SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- SIGN
- BARRICADE, TYPE III

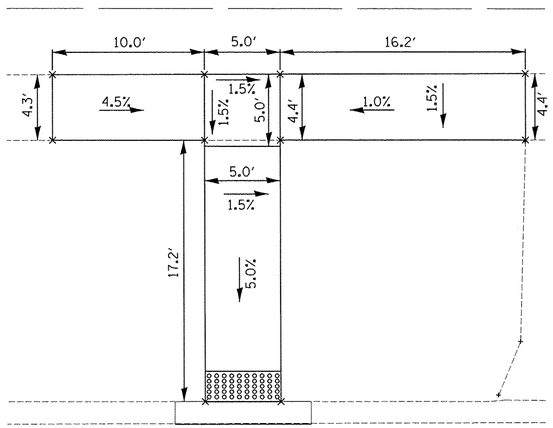
FILE NAME = DETOUR PLAN.DGN	USER NAME = UserAAcevedo	DESIGNED - PAW	REVISED -
		DRAWN - JSH	REVISED -
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED -
	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

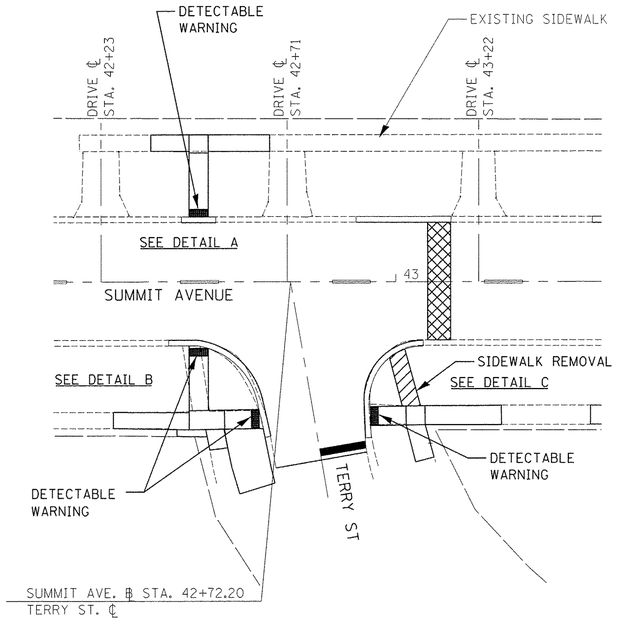
SUMMIT AVENUE RESURFACING
TRAFFIC CONTROL AND DETOUR PLAN

SCALE: N.T.S. | SHEET 9 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	9
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

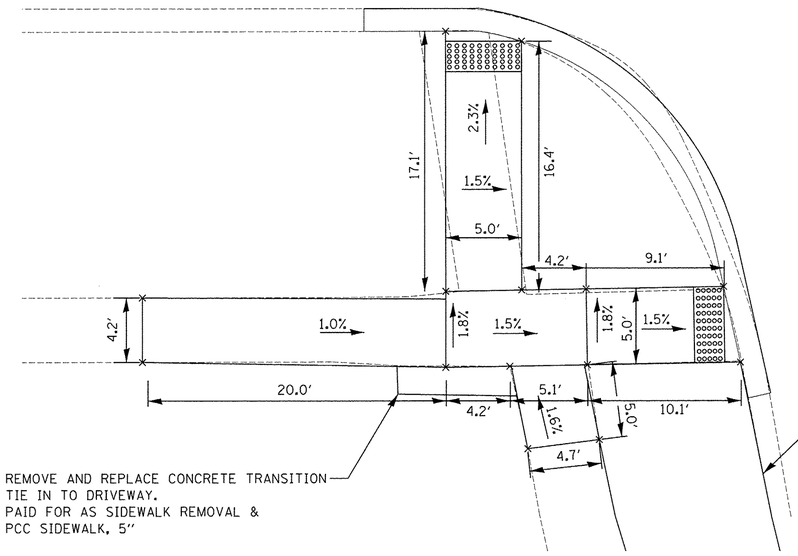


DETAIL A



SUMMIT AVENUE AND TERRY STREET INTERSECTION

DETAIL B



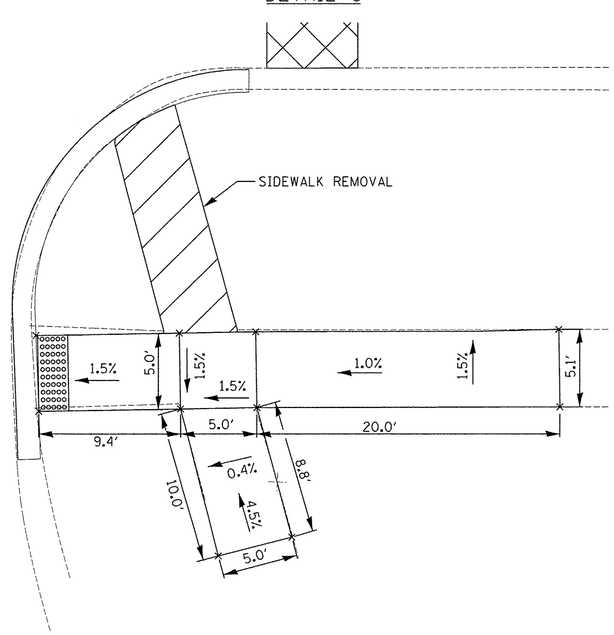
REMOVE AND REPLACE CONCRETE TRANSITION TIE IN TO DRIVEWAY. PAID FOR AS SIDEWALK REMOVAL & PCC SIDEWALK, 5"

PCC CONCRETE DRIVEWAY PAVEMENT 6" TO BE POURED AFTER SIDEWALK TO ENSURE ADA COMPLIANCE OF RAMP

NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

DETAIL C



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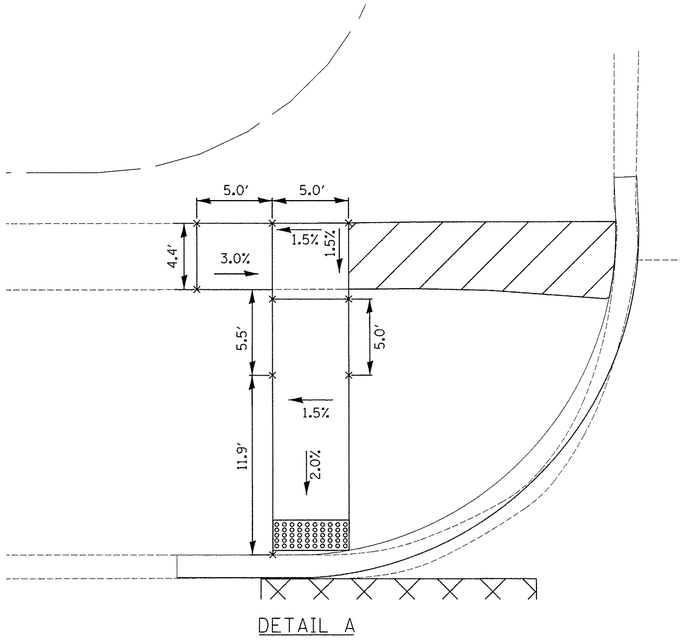
	PLOT SCALE = 20.0000 ' / in.	CHECKED - ANF	REVISED -
	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

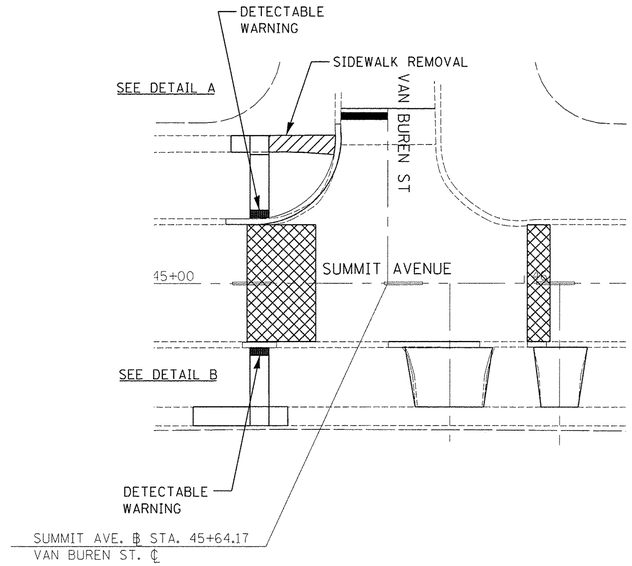
SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 10 OF 28 SHEETS | STA. | TO STA.

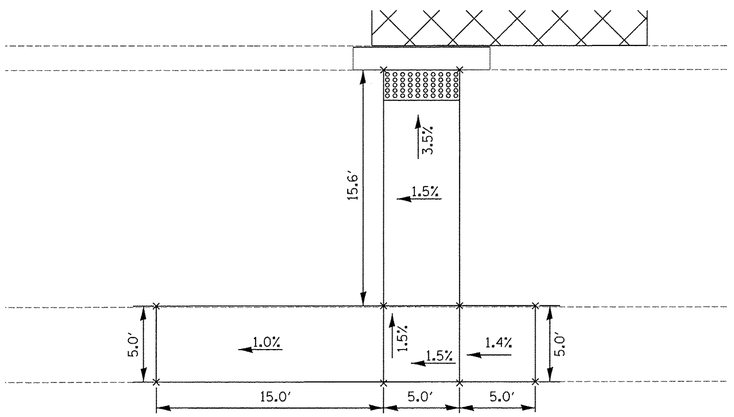
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	10
		CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		



DETAIL A



SUMMIT AVENUE AND VAN BUREN STREET INTERSECTION



DETAIL B

NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

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SCALE IN FEET

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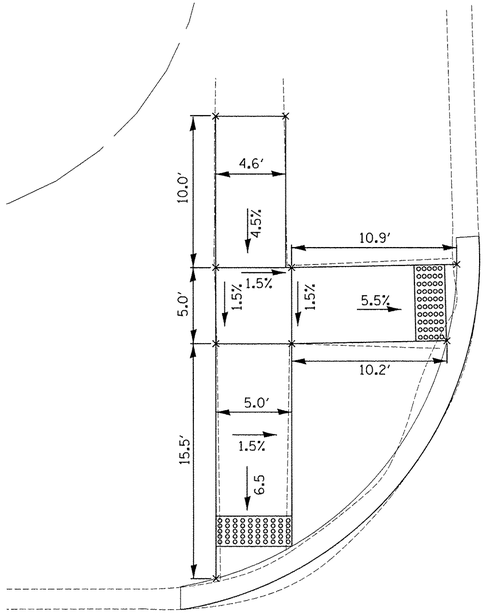
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

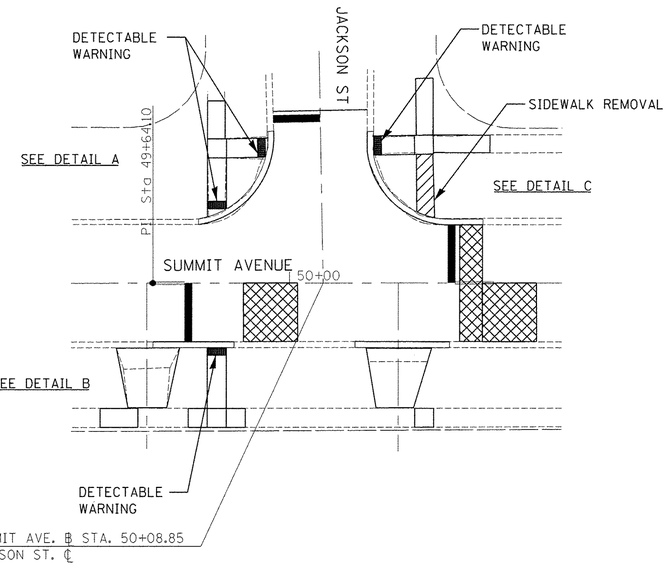
SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 11 OF 28 SHEETS | STA. | TO STA.

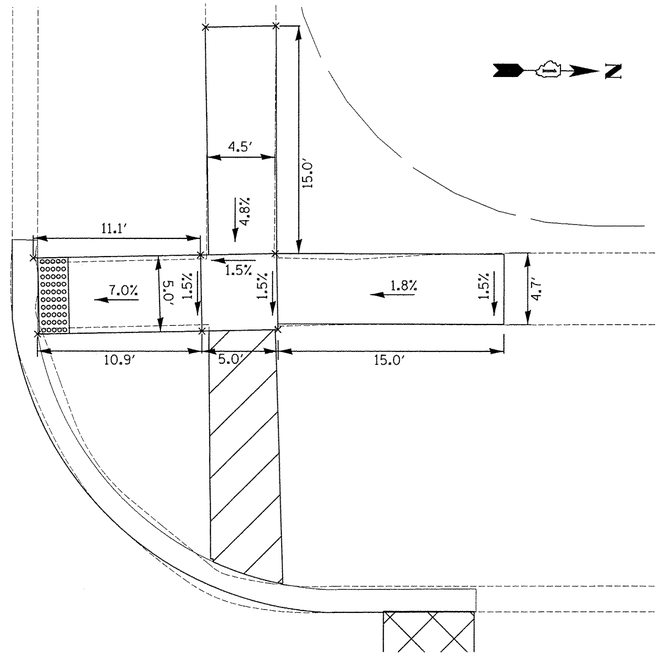
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	11
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



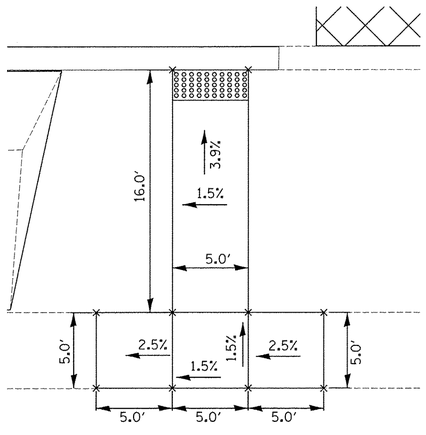
DETAIL A



SUMMIT AVENUE AND JACKSON STREET INTERSECTION



DETAIL B



DETAIL C

NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

0 20 40 60
SCALE IN FEET

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Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

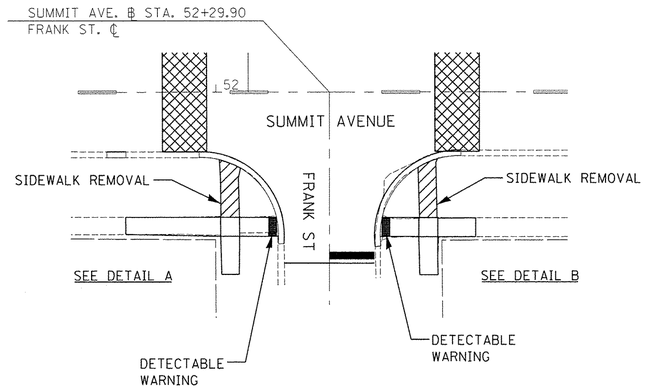
SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 12 OF 28 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	12
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

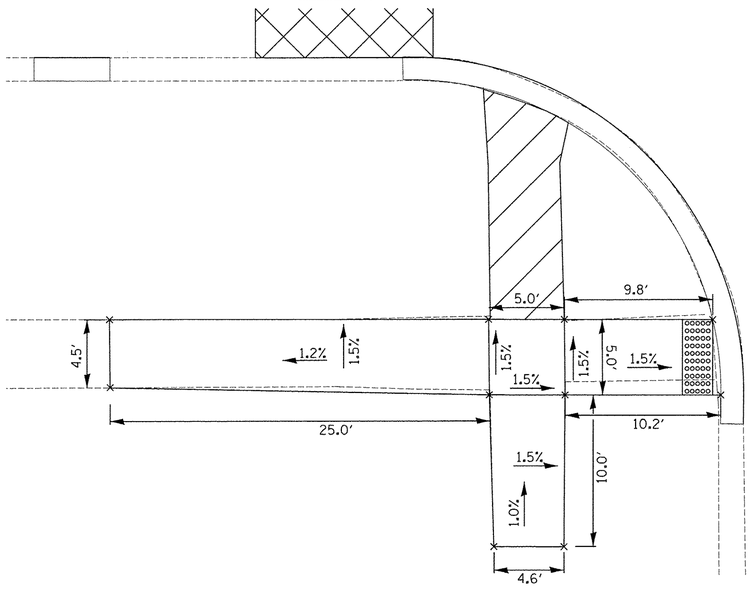
NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

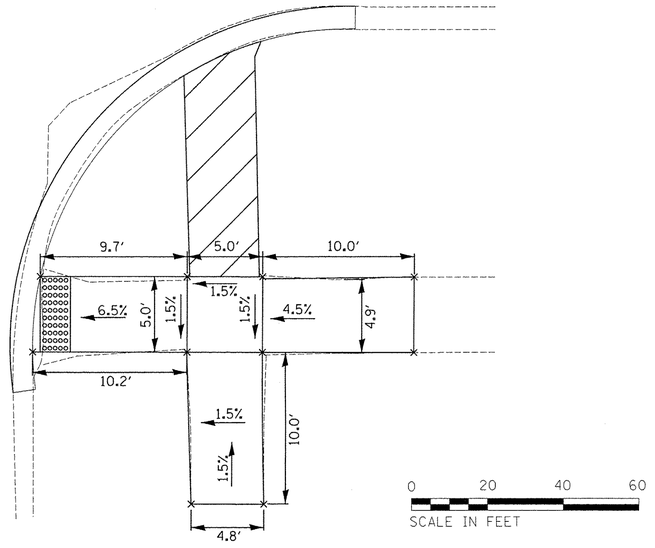


SUMMIT AVENUE AND FRANK STREET INTERSECTION

DETAIL A



DETAIL B



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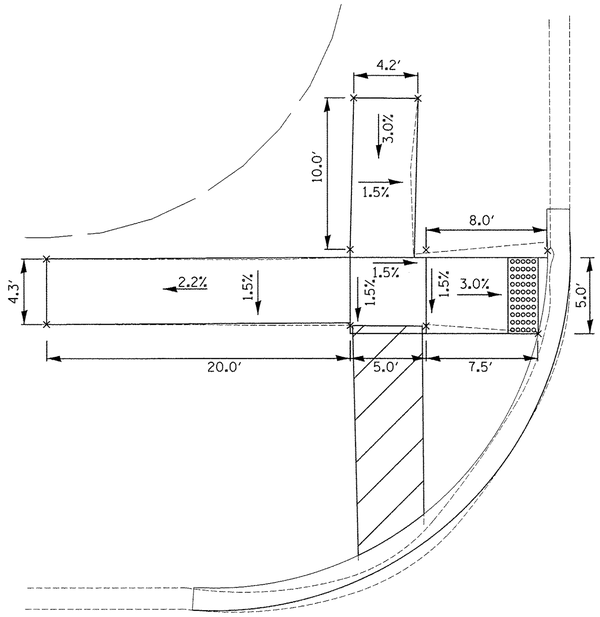
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

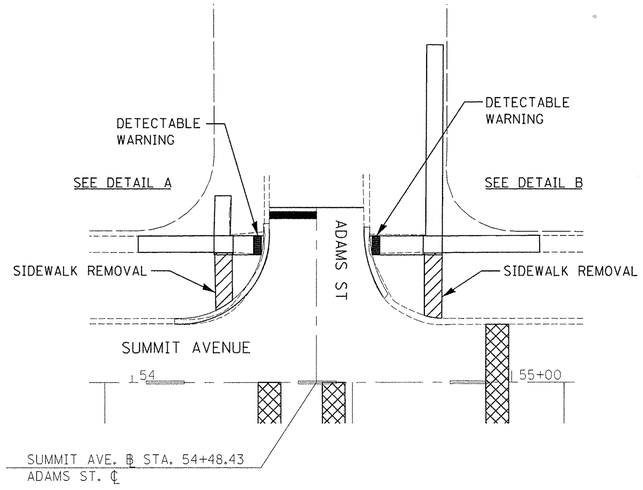
SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 13 OF 28 SHEETS | STA. | TO STA.

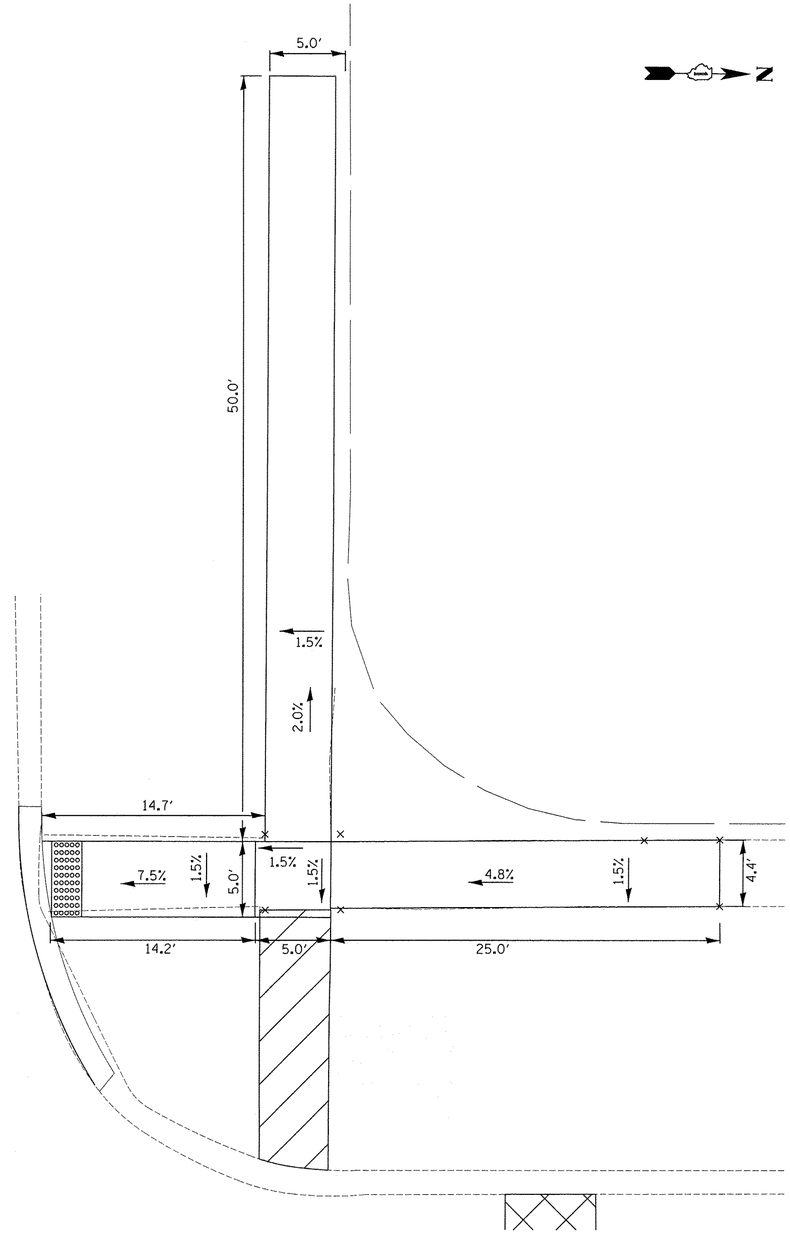
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	13
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



DETAIL A



SUMMIT AVENUE AND ADAMS STREET INTERSECTION



DETAIL B

NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

0 20 40 60
SCALE IN FEET

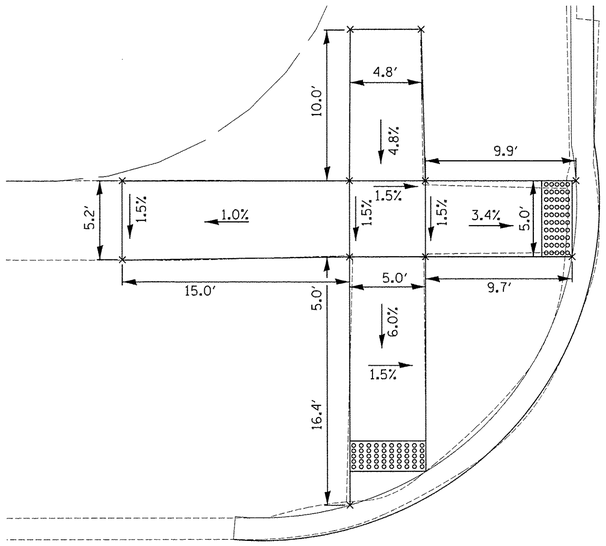
FILE NAME = P:\V0040190_Villa Park - Summit Avenue Resurfacing\Plans\Sheets\10E-ADA Detail Sheet.dgn	USER NAME = UserAAcevedo	DESIGNED - AEA	REVISED -
		DRAWN - AEA	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - ANF	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE SURFACING
SUDEWALK & ADA DETAILS

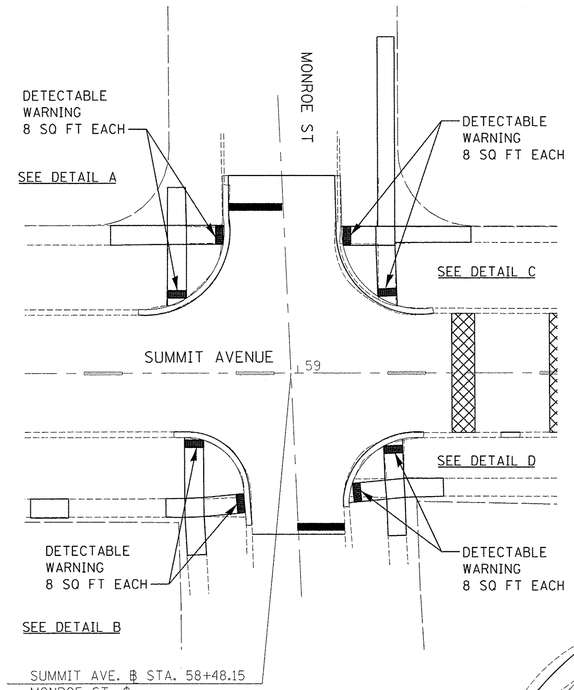
SCALE: NONE | SHEET 14 OF 28 SHEETS | STA. | TO STA.

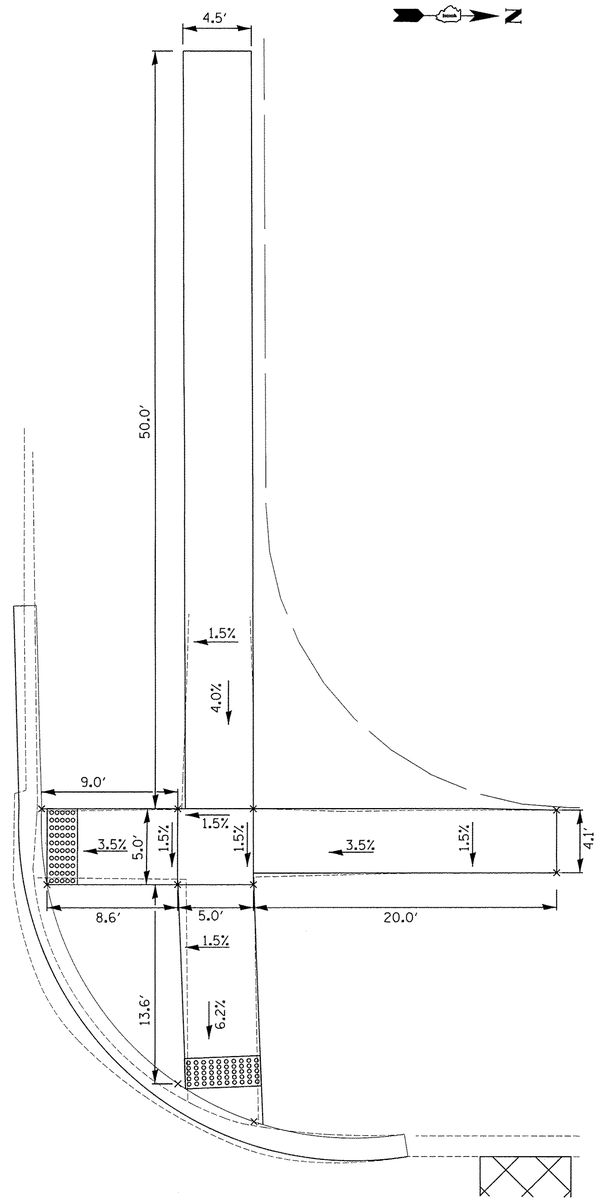
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	14
		CONTRACT NO. 61D40		
	ILLINOIS	FED. AID PROJECT		



DETAIL A

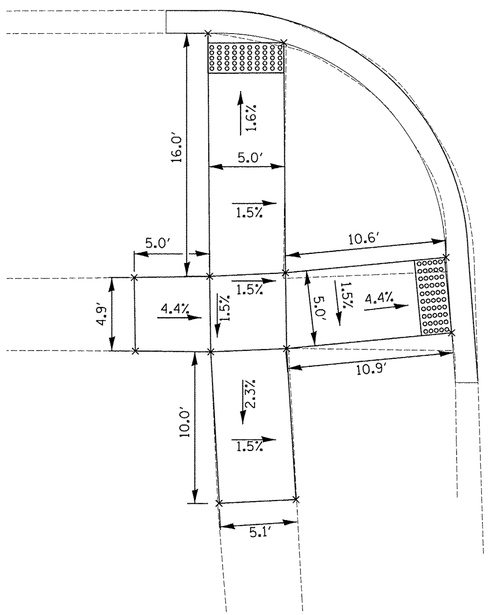
SUMMIT AVENUE AND MONROE STREET INTERSECTION



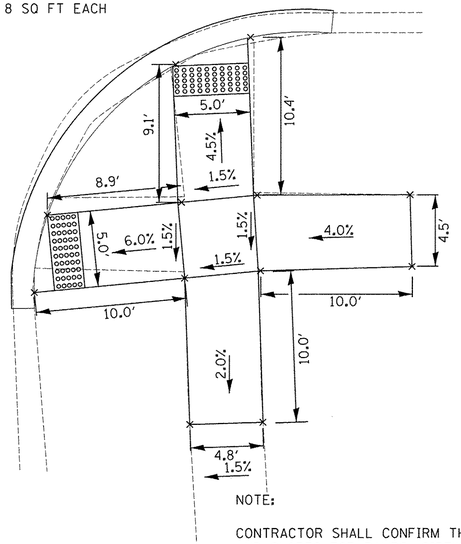


DETAIL C

DETAIL B



DETAIL D



NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

0 20 40 60
SCALE IN FEET

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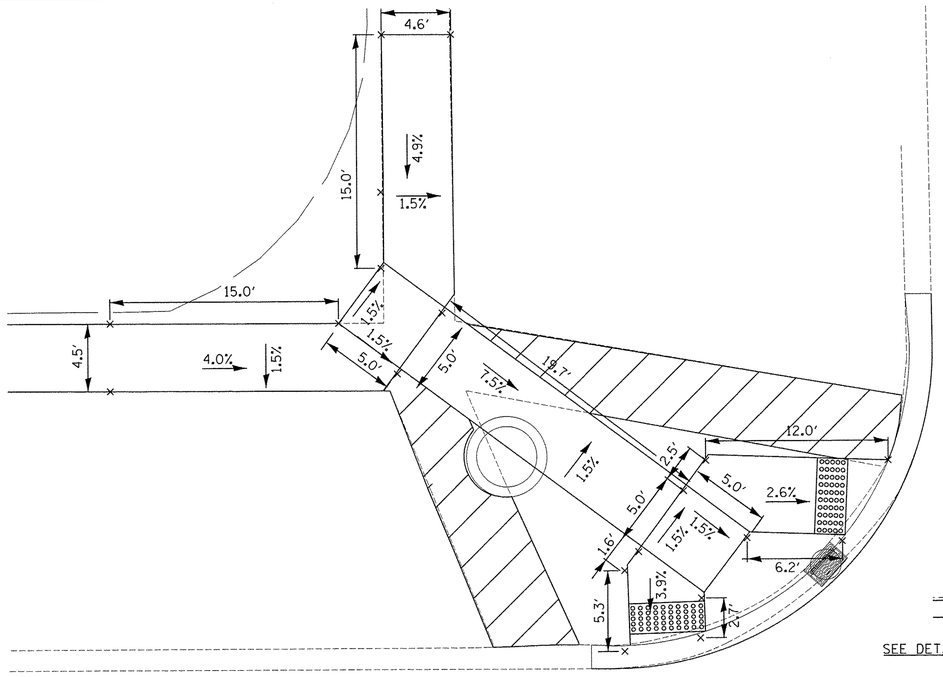
	PLOT SCALE = 20.0000 ' / in.	CHECKED - ANF	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

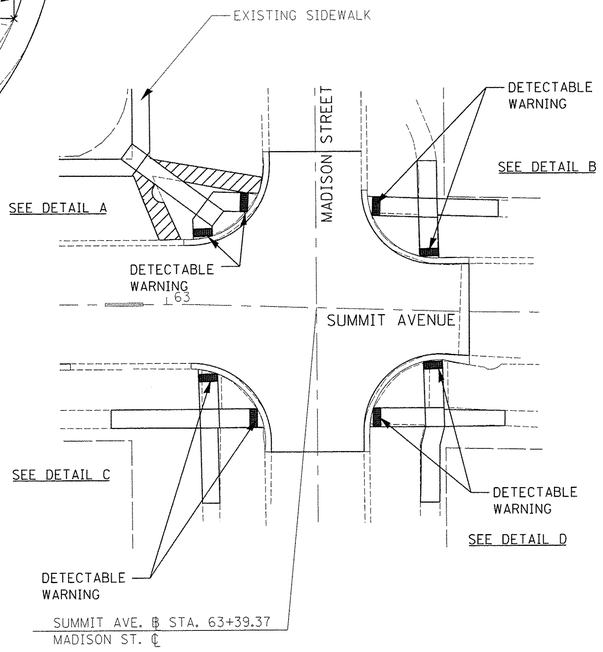
SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 15 OF 28 SHEETS | STA. | TO STA.

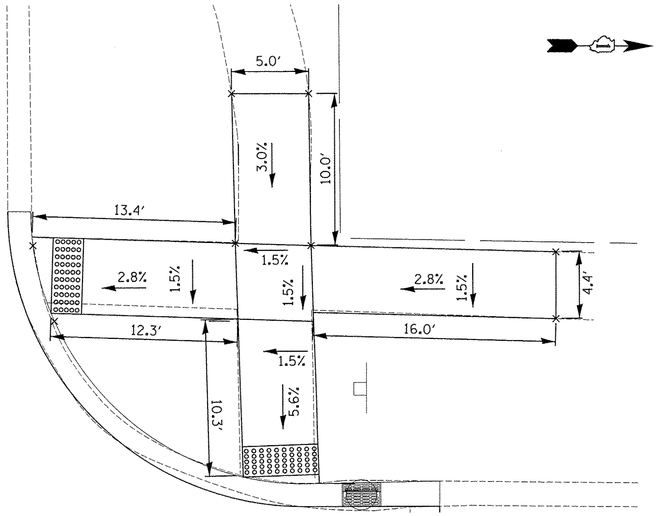
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	15
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



DETAIL A



SUMMIT AVENUE AND MADISON STREET INTERSECTION



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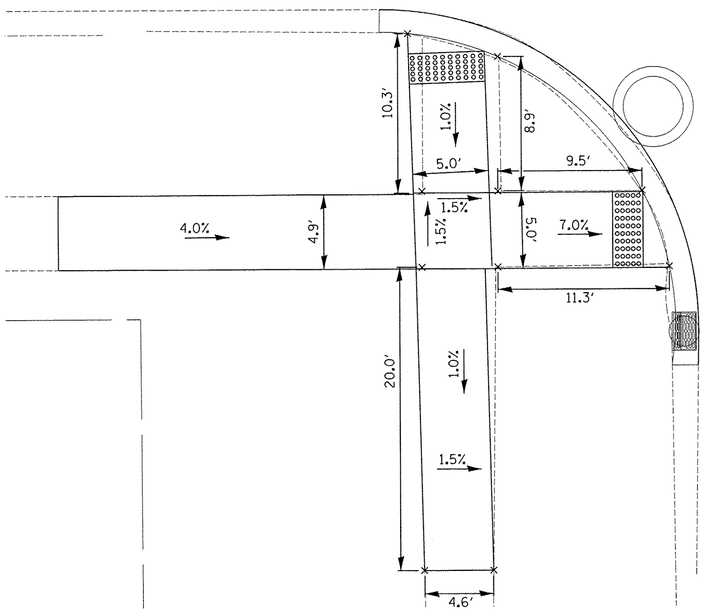
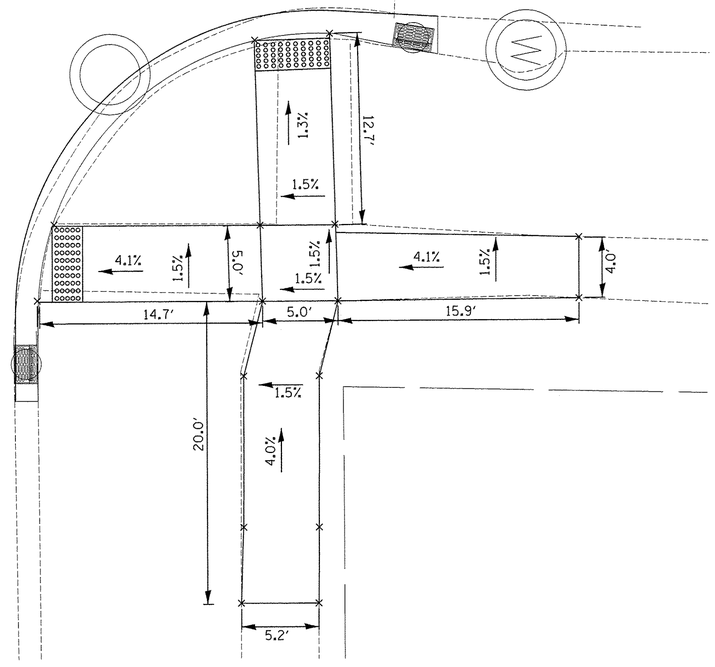


DETAIL C

DETAIL D



NOTE:

CONTRACTOR SHALL CONFIRM THAT ALL DIMENSIONS AND SLOPES FOR RAMPS, SIDEWALKS, TURNING SPACES, LANDINGS, AND OTHER ELEMENTS OF ADA ACHIEVE ADA REQUIREMENTS PRIOR TO PLACING CONCRETE.

0 20 40 60
SCALE IN FEET

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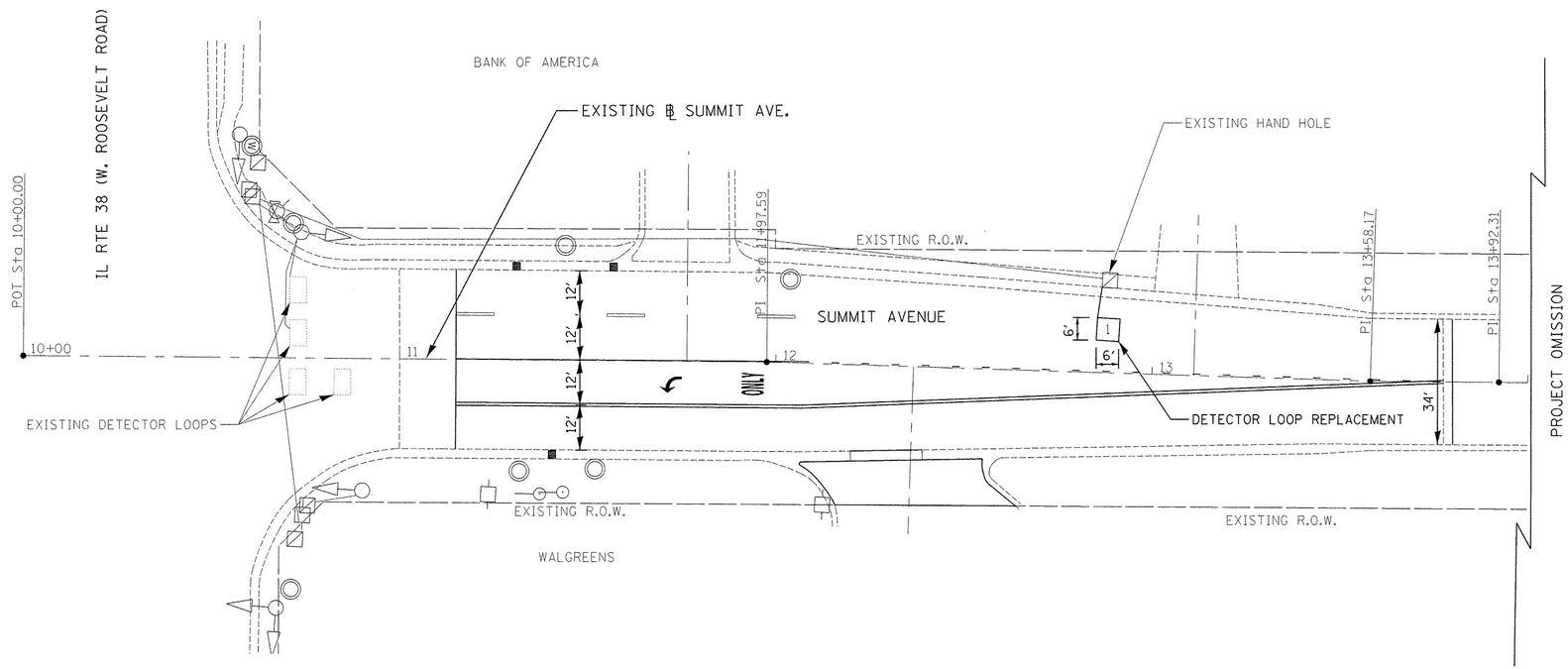
	PLOT SCALE = 20.0000 '/ in.	CHECKED - ANF	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
SIDEWALK & ADA DETAILS

SCALE: NONE | SHEET 16 OF 28 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	16
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



SCHEDULE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNITS	TOTAL QTY
88600600	DETECTOR LOOP REPLACEMENT	FEET	40

DETECTOR LOOP DATA

NO.	STATION	OFFSET	SIZE	NO. OF TURNS
1	12+90.0	12.0' LT	6' X 6'	4

0 20 40 60
SCALE IN FEET

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	PLOT SCALE = 20.0000 ' / in.	CHECKED - RON	REVISED -
Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

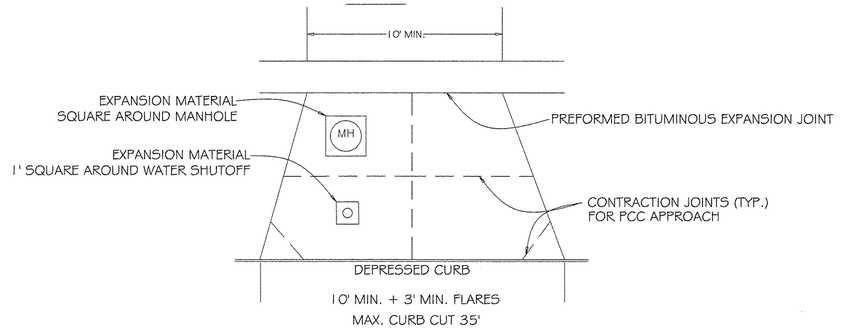
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMIT AVENUE RESURFACING
SIGNAL LOOP DETAILS

SCALE: 1"=20' | SHEET 17 OF 28 SHEETS | STA. 11+15 TO STA. 14+00

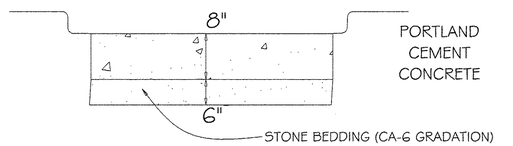
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	17
		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

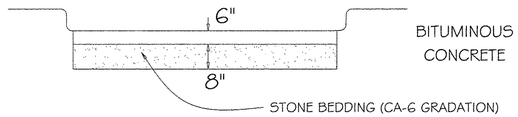
PLAN



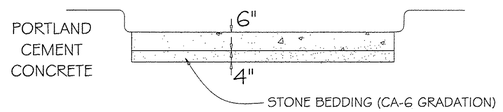
PROFILE

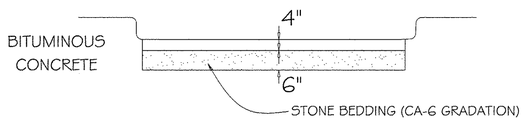
COMMERCIAL





RESIDENTIAL





NOT TO SCALE

GENERAL NOTES:

1. CURBING AND PROTECTION FOR IDOT SPECS AS APPROVED BY THE VILLAGE ENGINEER
2. ALL STONE BEDDING SHALL BE MECHANICALLY COMPACTED

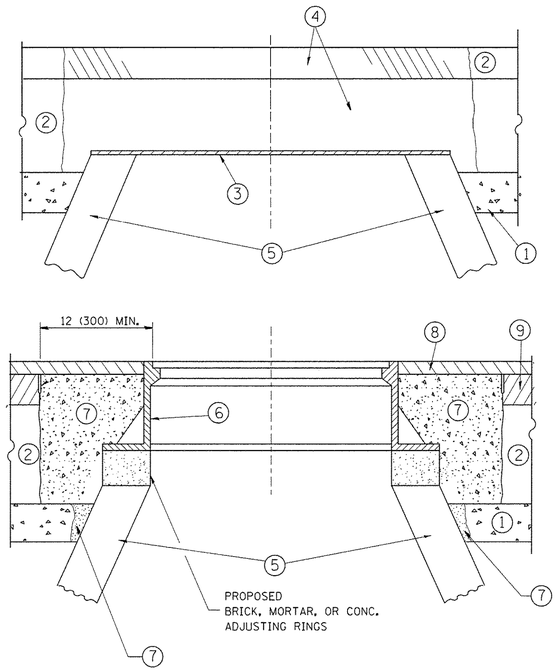
FILE NAME = DETAILS.DGN	USER NAME = User:PWalter	DESIGNED - VV	REVISED -
		DRAWN - PAW	REVISED -
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY APPROACH DETAILS

SCALE: N.T.S. | SHEET 18 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	18
		CONTRACT NO. 61D40		
	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 1½ (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
(2) EXISTING PAVEMENT
(3) 36 (900) DIAMETER METAL PLATE
(4) PROPOSED CRUSHED STONE AND HMA SURFACE MIX
(5) EXISTING STRUCTURE
(6) FRAME AND LID (SEE NOTES)
(7) CLASS PP-1* CONCRETE
(8) PROPOSED HMA SURFACE COURSE
(9) PROPOSED HMA BINDER COURSE

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.

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:

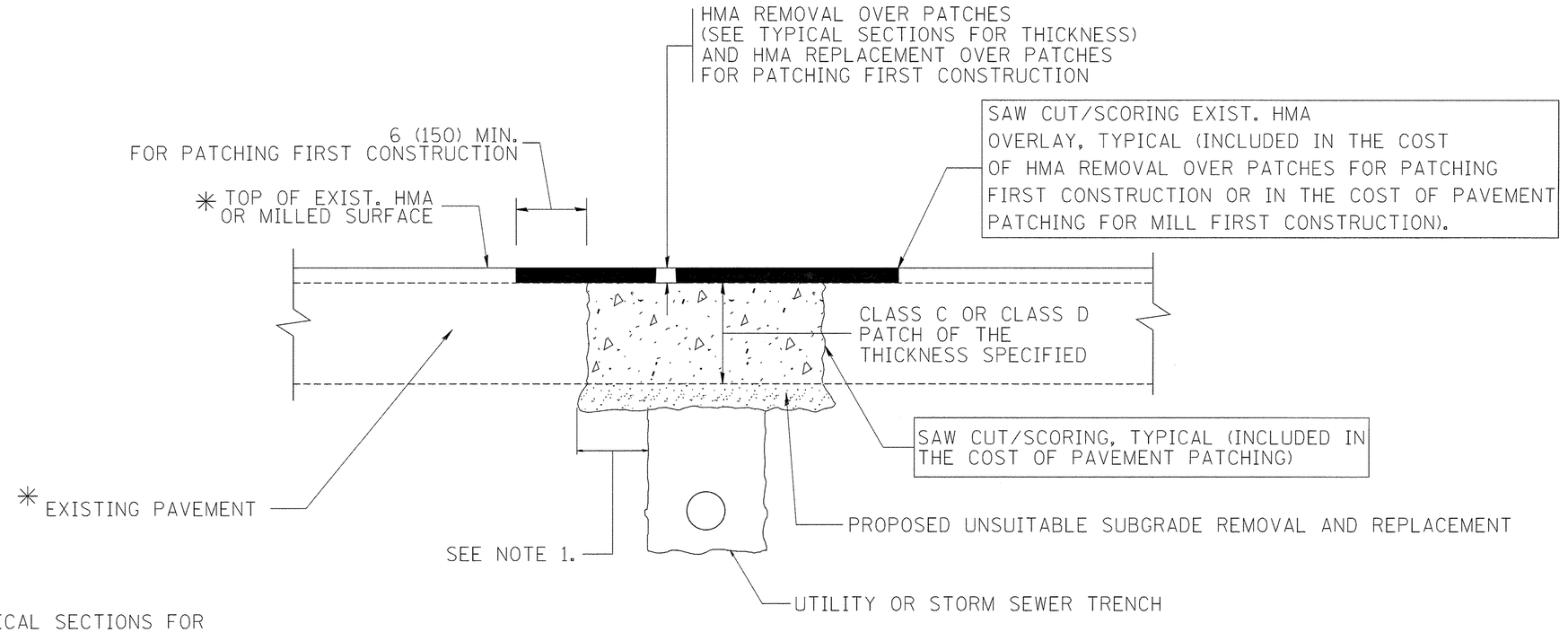
REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME = DETAILS.DGN	USER NAME = User:AAcevedo	DESIGNED - R. SHAH	REVISED - WIEDEMAN 05-14-04	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07			2653	16-00096-00-RS	DUPAGE	28	19
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11				BD600-03 (BD-8)		CONTRACT NO. 61D40	
	PLOT DATE = 10/26/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: N.T.S. SHEET 19 OF 28 SHEETS STA. TO STA.		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.

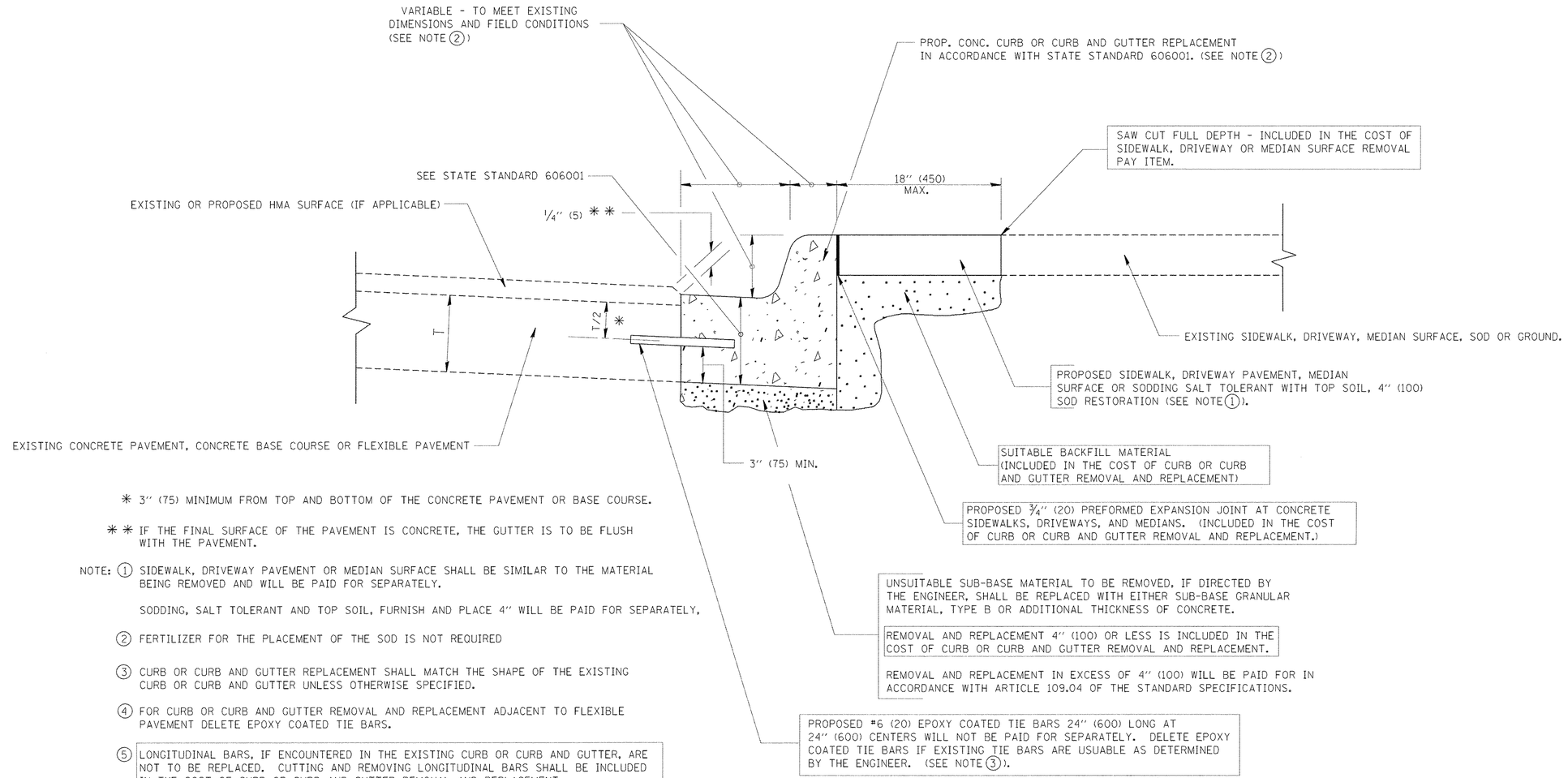
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ 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 = DETAILS.DGN	USER NAME = User:AAcevedo	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT PATCHING FOR HMA HMA SURFACED PAVEMENT**
		DRAWN - JSH	REVISED - R. BORO 01-01-07		
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED - R. BORO 09-04-07		SCALE: N.T.S. SHEET 20 OF 28 SHEETS STA. TO STA.
	PLOT DATE = 10/26/2016	DATE -	REVISED - K. ENG 10-27-08		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	20
	BD400-04 (BD-22)	CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			



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

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

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

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.

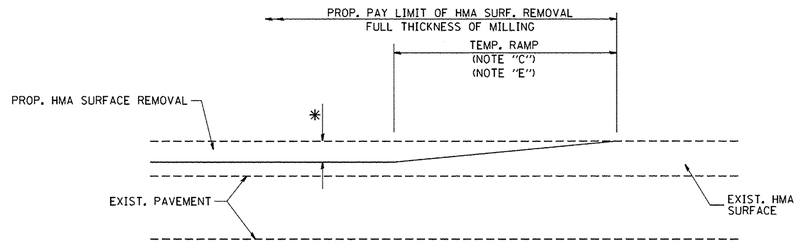
(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(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.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

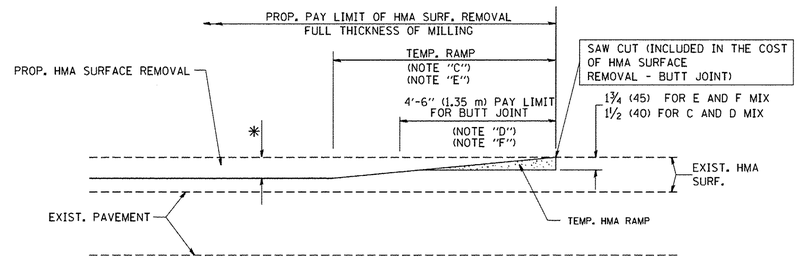
FILE NAME = DETAILS.DGN	USER NAME = User:AAcevedo	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JSH	REVISED - A. ABBAS 03-21-97				2653	16-00096-00-RS	DUPAGE	28	21
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED - M. GOMEZ 01-22-01				BD600-06 (BD-24)		CONTRACT NO. 61D40		
	PLOT DATE = 10/26/2016	DATE -	REVISED - R. BORO 12-15-09		SCALE: N.T.S.	SHEET 21 OF 28 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

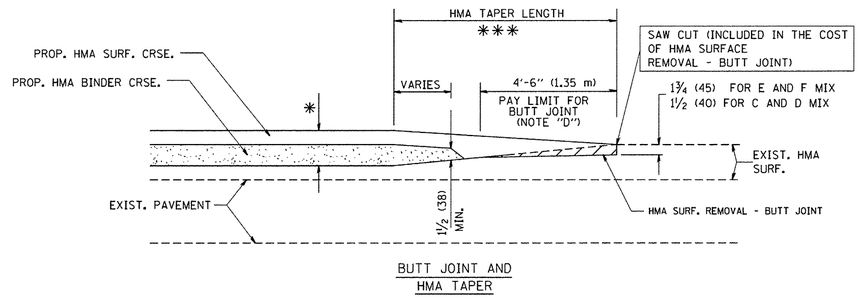


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

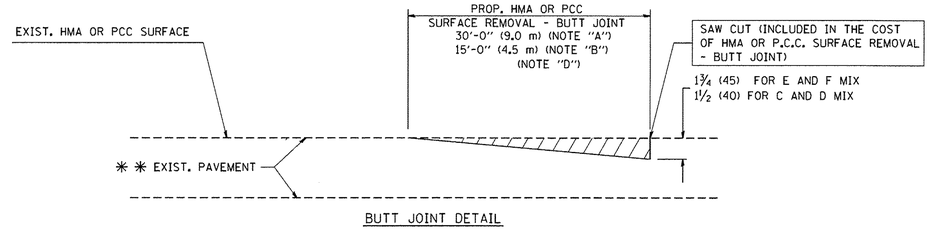
OPTION 2

TYPICAL TEMPORARY RAMP

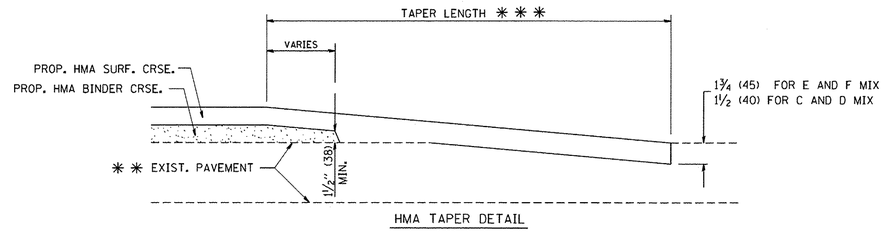


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

BASIS OF PAYMENT:

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

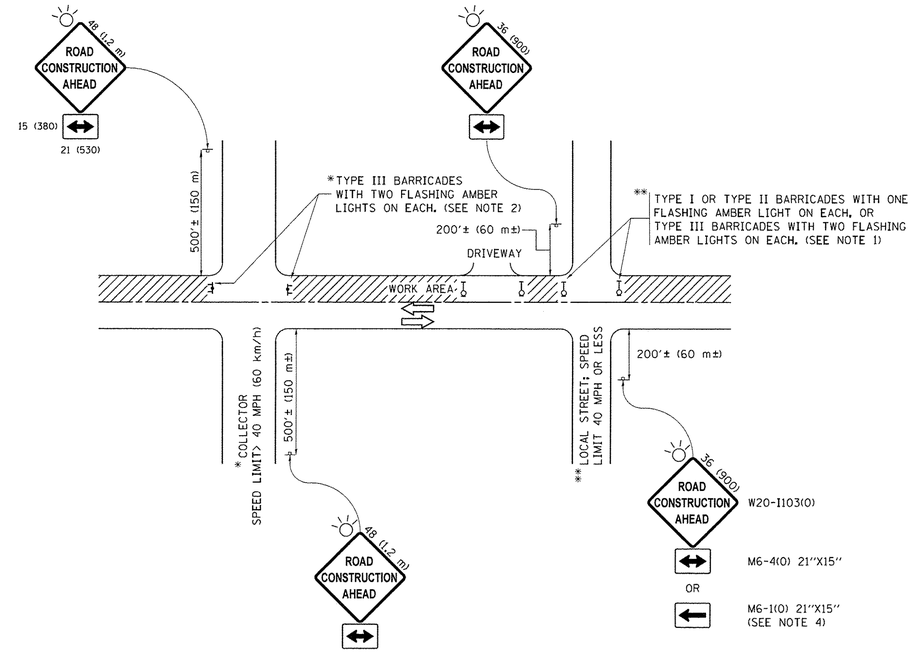
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = DETAILS.DGN	USER NAME = UsersAAcevedo	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - JSH	REVISED - A. ABBAS 03-21-97	
Default	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED - M. GOMEZ 04-06-01	
	PLOT DATE = 10/26/2016	DATE -	REVISED - R. BORO 01-01-07	

BUTT JOINT AND HMA TAPER DETAILS

SCALE: N.T.S. | SHEET 22 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	22
	BD400-05 (BD-32)	CONTRACT NO. 61D40		
	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.

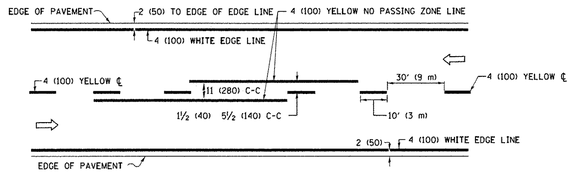
FILE NAME = DETAILS.DGN Default	USER NAME = User:AAcevedo	DESIGNED - LHA	REVISED - A. HOUSEH 10-15-96
		DRAWN - JSH	REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 200.0000 '/ in.	CHECKED - RON	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 10/26/2016	DATE -	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

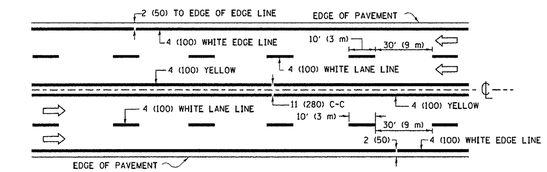
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: N.T.S. | SHEET 23 OF 28 SHEETS | STA. | TO STA.

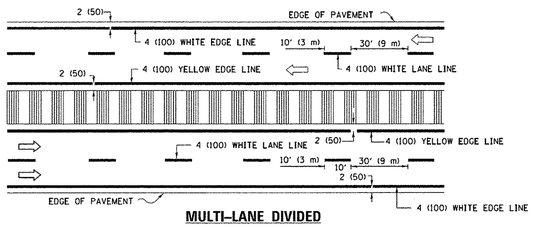
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	23
TC-10		CONTRACT NO. 61D40		
ILLINOIS FED. AID PROJECT				



2–LANE ROADWAY

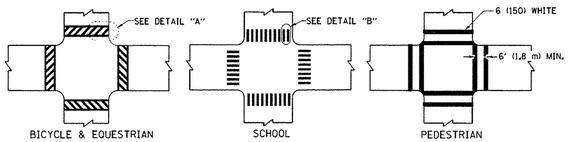


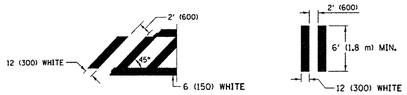
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

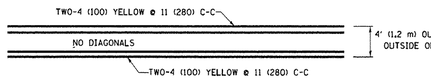




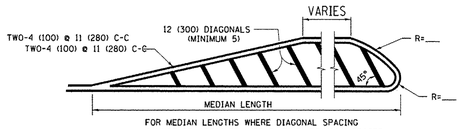
DETAIL "A" DETAIL "B"

TYPICAL CROSSWALK MARKING

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



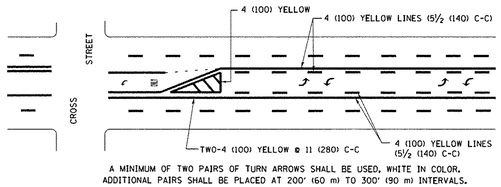
4' (1.2 m) WIDE MEDIANS ONLY



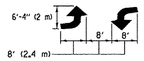
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

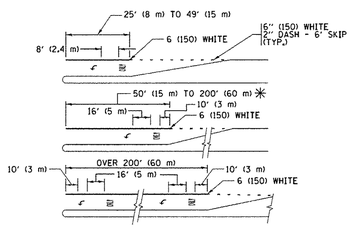


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

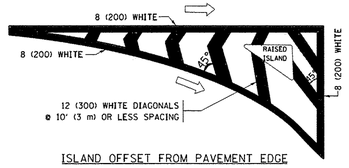


FULL SIZE LETTERS 8' (2,4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

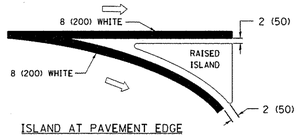
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

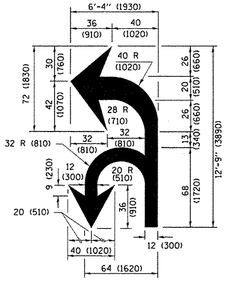


ISLAND OFFSET FROM PAVEMENT EDGE

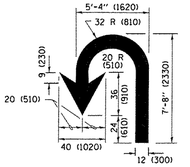


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

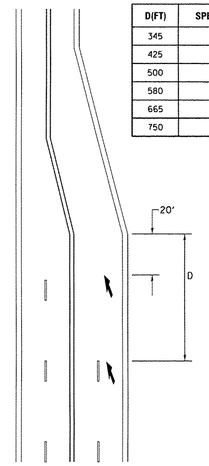


COMBINATION LEFT AND U–TURN



U–TURN

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



LANE REDUCTION TRANSITION

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

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	5½ (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; 5½ (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 (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.

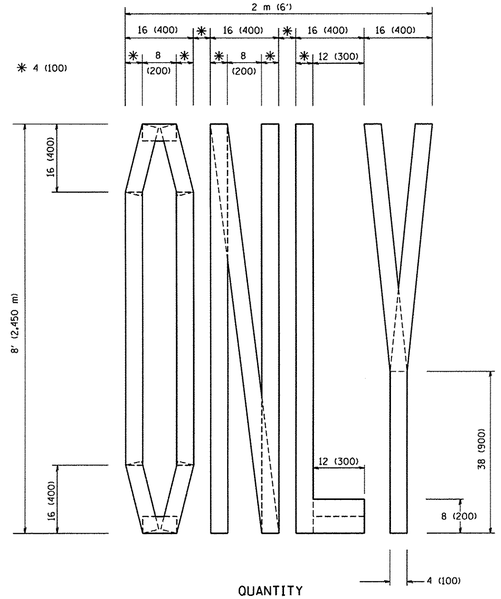
FILE NAME = DETAILS.DGN	USER NAME = UsersAAcevedo	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN - JSH	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 10/26/2016	DATE -	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

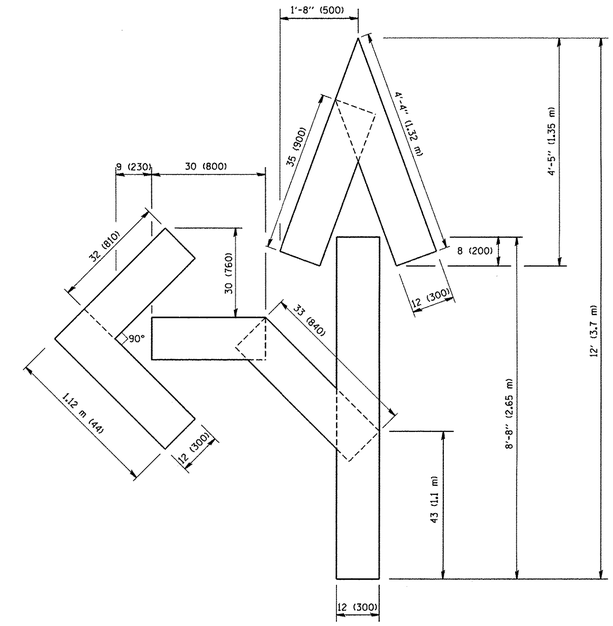
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: N.T.S. | SHEET 24 OF 28 SHEETS | STA. | TO STA.

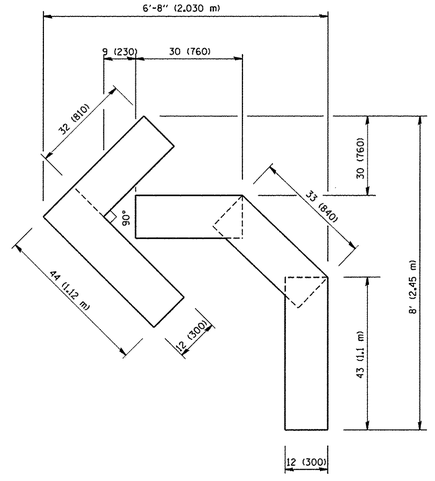
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	24
	TC-13		CONTRACT NO. 61D40	
		ILLINOIS FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



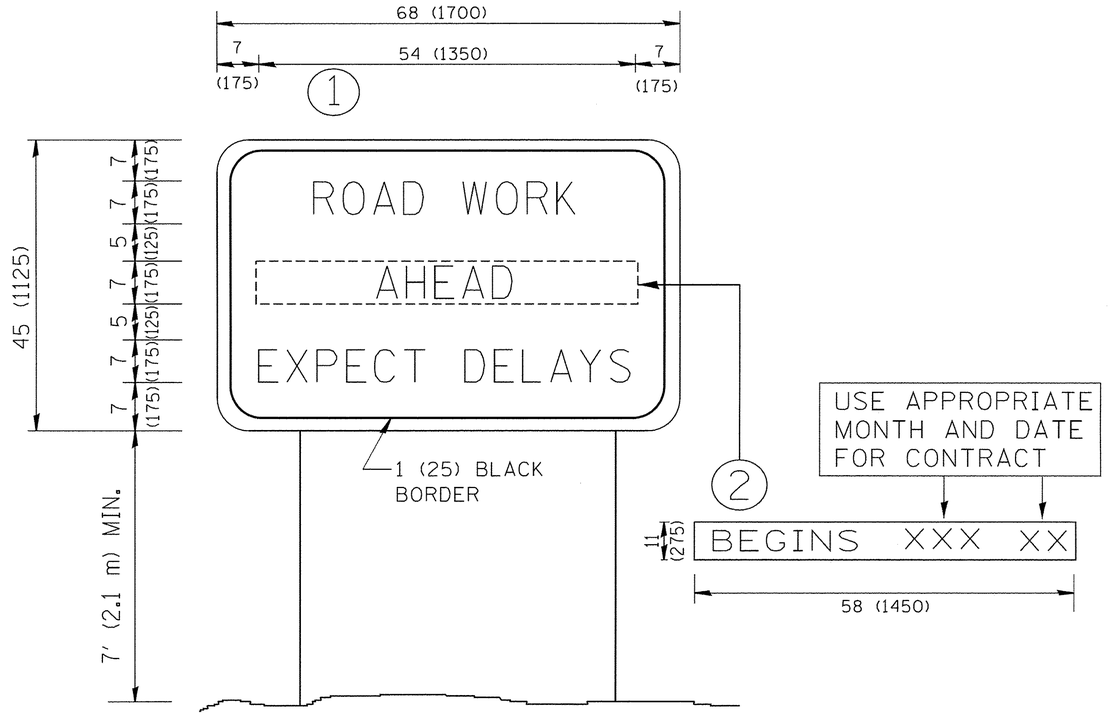
QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



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

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

FILE NAME = DETAILS.DGN Default	USER NAME = User:AAcevedo	DESIGNED - T. RAMMACHER	REVISED -T. RAMMACHER 06-05-96	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING LETTERS AND SYMBOLS TYPICAL PAVEMENT MARKINGS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JSH	REVISED -T. RAMMACHER 11-04-97			2653	16-00096-00-RS	DUPAGE	28	25
	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED -T. RAMMACHER 03-02-98				TC-16		CONTRACT NO. 61D40	
	PLOT DATE = 10/26/2016	DATE -	REVISED -E. GOMEZ 08-28-00		SCALE: N.T.S. SHEET 25 OF 28 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = DETAILS.DGN Default	USER NAME = UserAAcevedo	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN - PAW	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 200.0000 ' / in.	CHECKED - RON	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 10/26/2016	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: N.T.S. | SHEET 26 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	26
	TC-22	CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

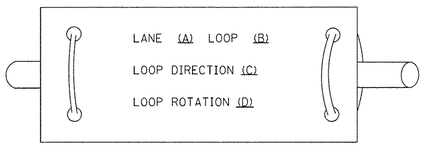
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

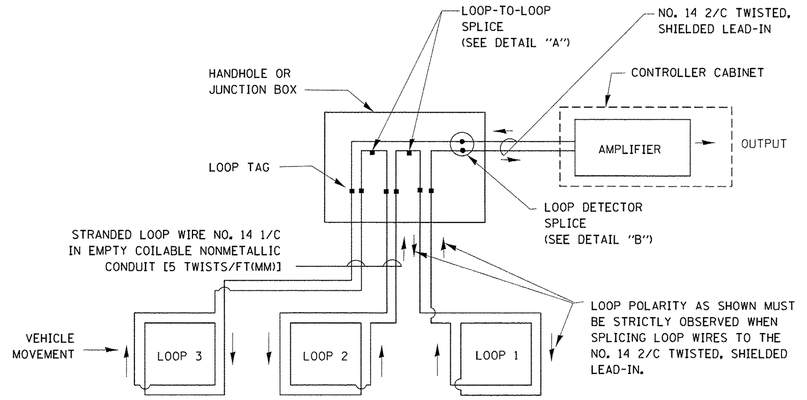


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

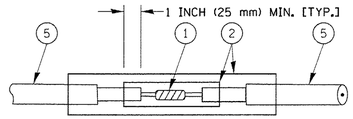
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

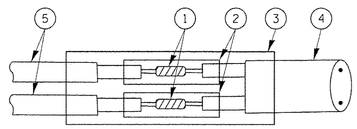


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

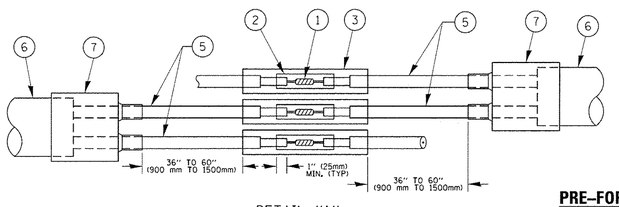


DETAIL "A"
LOOP-TO-LOOP SPLICE



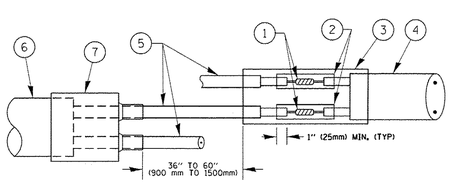
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = DETAILS.DGN	USER NAME = User:AAcevedo	DESIGNED - DAD	REVISED - DAG 01-01-14
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	PLOT DATE = 10/26/2016	DATE -	REVISED -

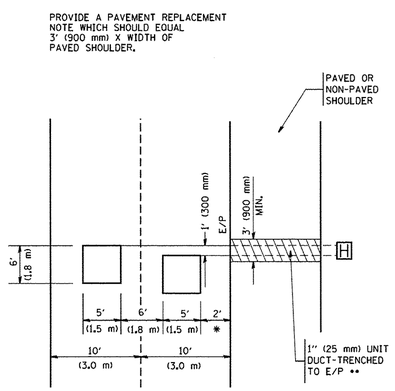
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET 27 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	27
TS-05		CONTRACT NO. 61D40		
	ILLINOIS FED. AID PROJECT			

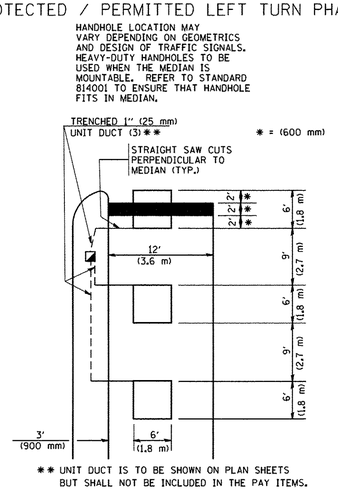
LOOPS NEXT TO SHOULDERS



* = (600 mm)

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

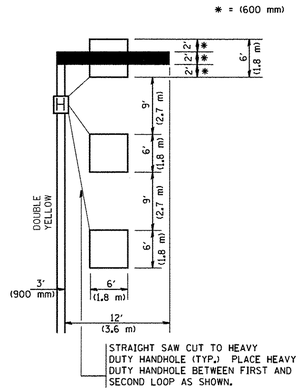
LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



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

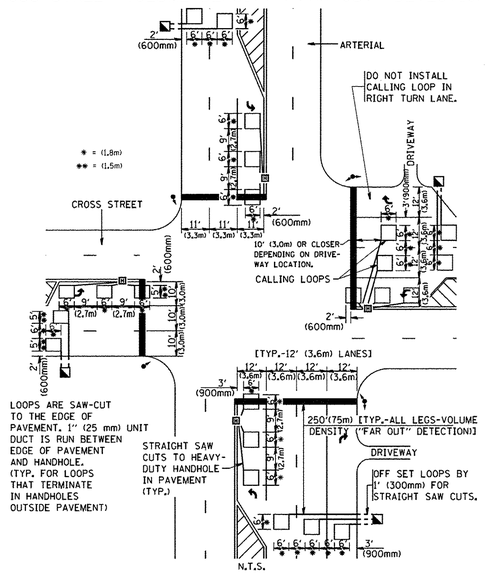
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



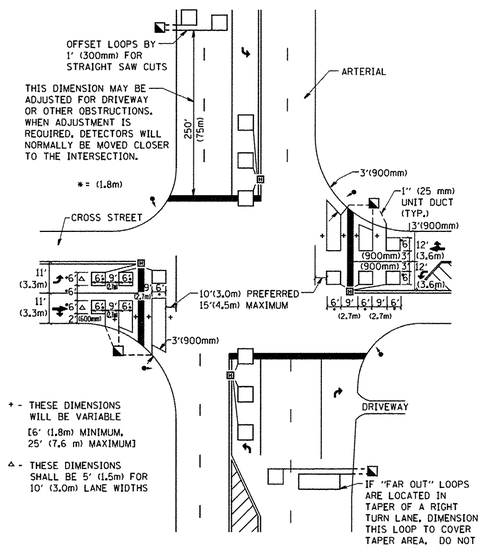
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

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.

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		DRAWN - JSH	REVISED -
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Default	PLOT DATE = 10/26/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

SCALE: N.T.S. | SHEET 28 OF 28 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2653	16-00096-00-RS	DUPAGE	28	28
	TS-07	CONTRACT NO. 61D40		
		ILLINOIS FED. AID PROJECT		