

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	1
		ILLINOIS	CONTRACT NO. 62C74	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF GURNEE AND THE CITY OF WAUKEGAN

TRAFFIC DATA:

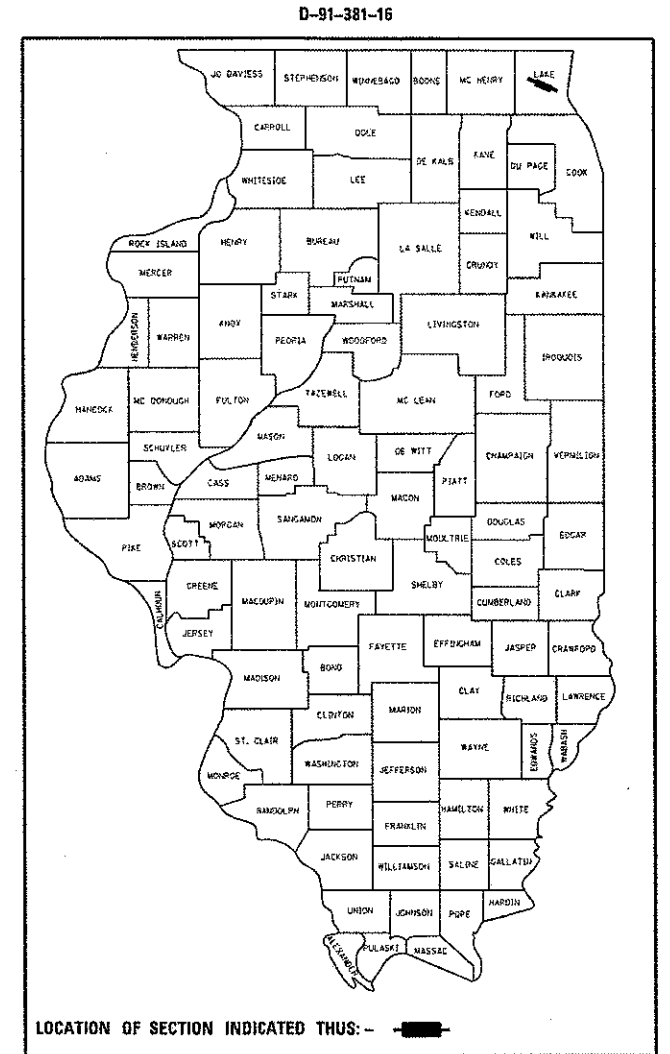
2015 ADT = 26600

POSTED SPEED LIMIT = 35-40 MPH

PROPOSED
HIGHWAY PLANS

FAP ROUTE 541-IL 132 (GRAND AVE)
W OF TRI-STATE TOLLWAY TO IL 131 (GREEN BAY RD)
SECTION 2016-021RS
RESURFACING (3P)/PEDESTRIAN RAMPS
PROJECT: NHPP-OZN7(728)
LAKE COUNTY

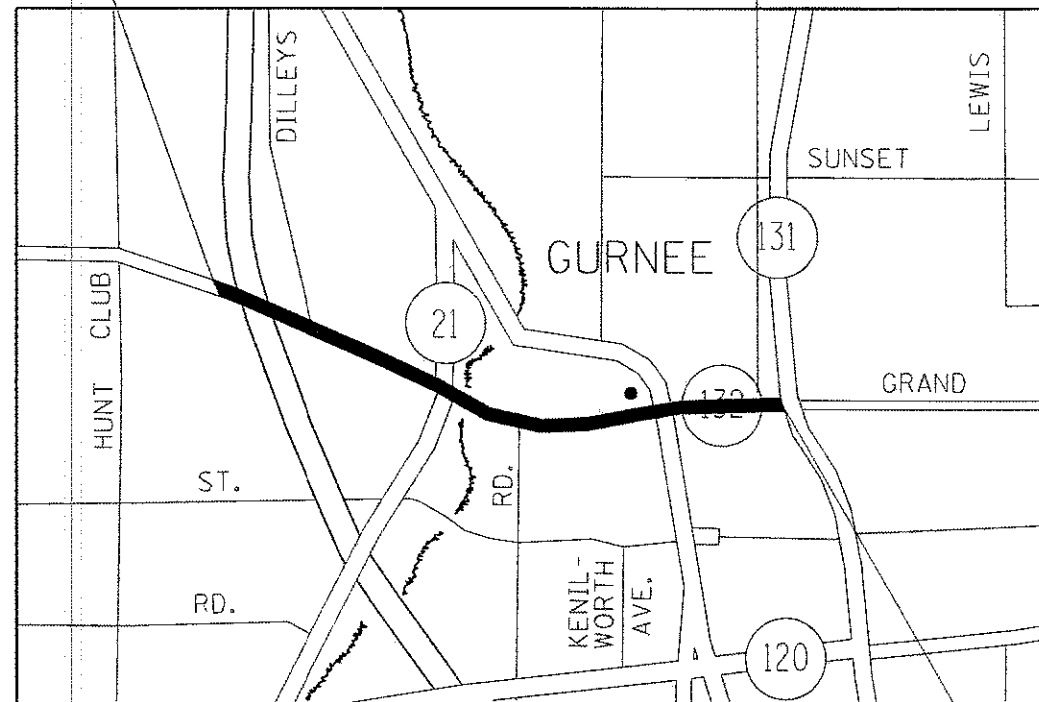
C-91-381-16



PROJECT BEGINS
STA 12+74

R 11 E R 12 E

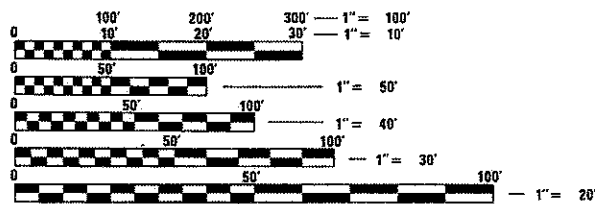
T 45 N



WARREN AND WAUKEGAN TOWNSHIPS

GROSS LENGTH = 19176 FT. = 3.632 MILE
NET LENGTH = 14988 FT. = 2.84 MILE

PROJECT ENDS
STA 204+50



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

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62C74

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 13 2018
Anthony J. Quigley/043
REGIONAL ENGINEER

May 11 2018
Ken E. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2018
David P. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	0005 80% FED 20% STATE					
20200100	EARTH EXCAVATION	CU YD	60	60					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	294	294					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6					
25200110	SODDING, SALT TOLERANT	SO YD	294	294					
25200200	SUPPLEMENTAL WATERING	UNIT	3	3					
31101500	SUBBASE GRANULAR MATERIAL, TYPE B 7"	SO YD	145	145					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	50	50					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	78834	78834					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	175	175					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4, 75, N50	TON	8030	8030					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	720	720					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	12.5	12.5					
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	11446	11446					
4080029	Bituminous Materials (Tack Coat)	Pound	396	396					
42001300	PROTECTIVE COAT	SO YD	1780	1780					
20100110	Tree Removal (6 to 15 Units) Diameter	UNIT	40	40					
20100210	Tree Removal (over 15 units Diameter)	UNIT	30	30					

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	0005 80% FED 20% STATE					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	115	115					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	6530	6530					
42400800	DETECTABLE WARNINGS	SO FT	890	890					
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SO YD	116790	116790					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	230	230					
44000600	SIDEWALK REMOVAL	SO FT	6530	6530					
44003100	MEDIAN REMOVAL	SO FT	1174	1174					
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SO FT	10440	10440					
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	120	120					
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	1500	1500					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	2100	2100					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	1320	1320					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	1500	1500					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	50	50					
56109210	WATER VALVES TO BE ADJUSTED	EACH	1	1					
20101350	Tree Pruning (over 10 inch in Diameter)	Each	5	5					

B

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE					
60250200	CATCH BASINS TO BE ADJUSTED	EACH	24	24					
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	36	36					
60255500	MANHOLES TO BE ADJUSTED	EACH	24	24					
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	15	15					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	15	15					
60618210	HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH	SO FT	500	500					
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	400	400					
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SO FT	1174	1174					
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SO FT	1000	1000					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60	60					
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12					
67100100	MOBILIZATION	LSUM	1	1					
15	* SPECIALTY ITEM								

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE					
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1					
70102631	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1	1					
70102633	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	EACH	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	28370	28370					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	9460	9460					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	2485	2485					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	43632	43632					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6930	6930					
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	3610	3610					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	6422	6422					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	959	959					
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	7100	7100					
15									

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES		CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	0005 80% FED 20% STATE						
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2630	2630					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	45,435	45,435					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6930	6930					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	5170	5170					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	6600	6600					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1045	1045					
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SO FT	36.4	36.4					
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	5874	5874					
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	388	388					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1246	1246					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1226	1226					
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	4352	4352					
* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	11	11					
* 89502376	REBUILD EXISTING HANDHOLE	EACH	2	2					

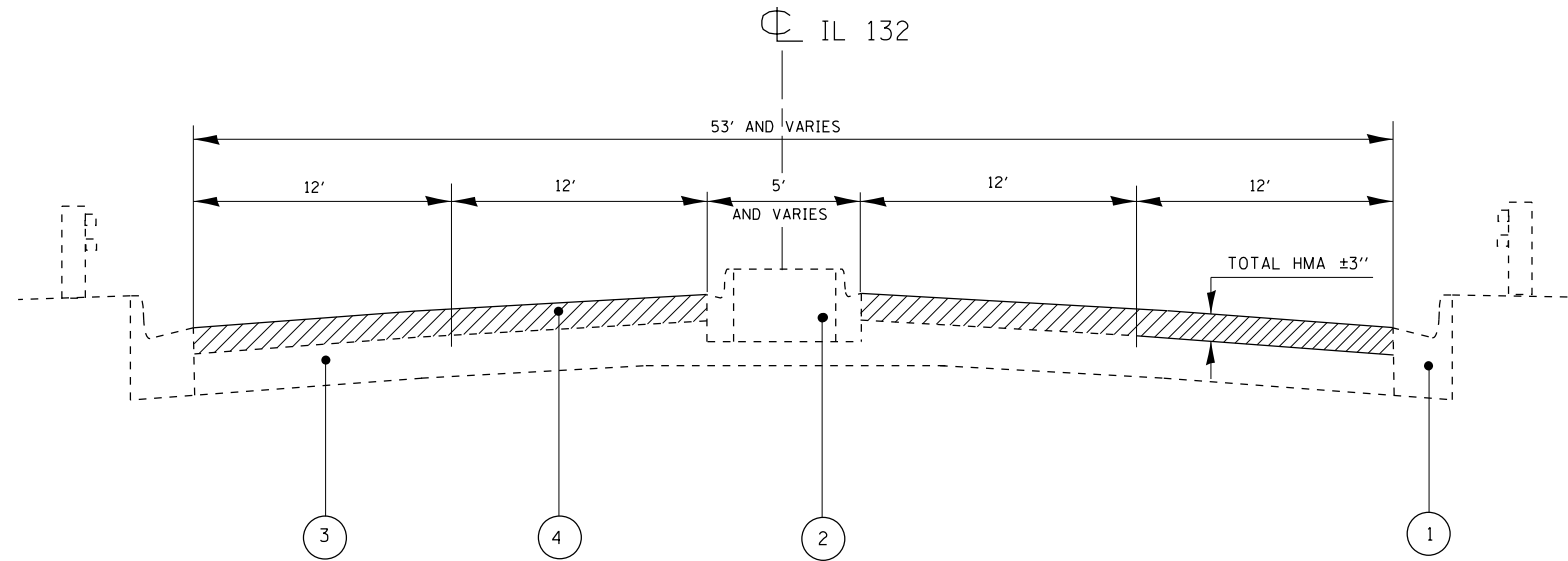
SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	0005 80% FED 20% STATE						
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1					
X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	195	195					
X0327980	Pavement Marking Removal - Water Blasting	SO FT	1715	1715					
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	14	14					
X4421790	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	SO YD	30	30					
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	5500	5500					
X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	2500	2500					
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	30	30					
X6061312	CONCRETE MEDIAN SURFACE, 5 INCH (SPECIAL)	SO FT	135	135					
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	34810	34810					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	5345	5345					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	62	62					
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	462.6	462.6					
Z0076600	TRAINEES	-HOUR	500	500					
40400070	Asphaltic Emulsion Slurry Seal Mixture C	SQ YD	880	880					
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500	500					
4050001	Fiber-Modified Asphalt Crack Sealing	Foot	3520	3520					
Z0064800	Selective Clearing	unit	15	15					

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PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	CONTRACT NO. 62C74							
PLOT DATE = 3/20/2018	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

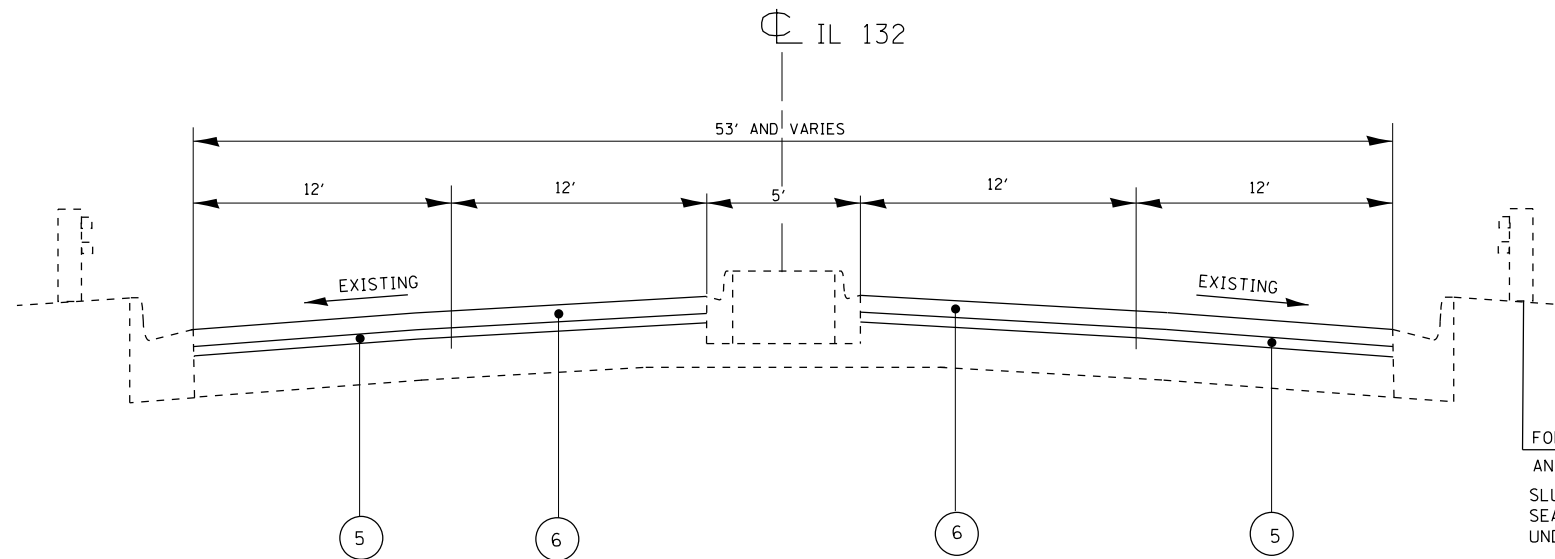
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LEGEND

- 1 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- 2 EXISTING CONCRETE RAISED MEDIAN
- 3 EXISTING PCC PAVEMENT ±10"
- 4 PROPOSED HMA SURFACE REMOVAL, ±3"
- 5 PROPOSED POLYMERIZED LEVELING BINDER (MM) IL -4.75, N50, 1 1/4" AND VARIES
- 6 PROPOSED POLYMERIZED HMA SURFACE COURSE MIX "E", N70, 1 3/4"
- 7 PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- 8 EXISTING HMA SHOULDER
- 9 EXISTING AGGREGATE SHOULDER



EXISTING TYPICAL SECTION
 STA 85+00 TO STA 91+48
 STA 121+80 TO STA 130+20

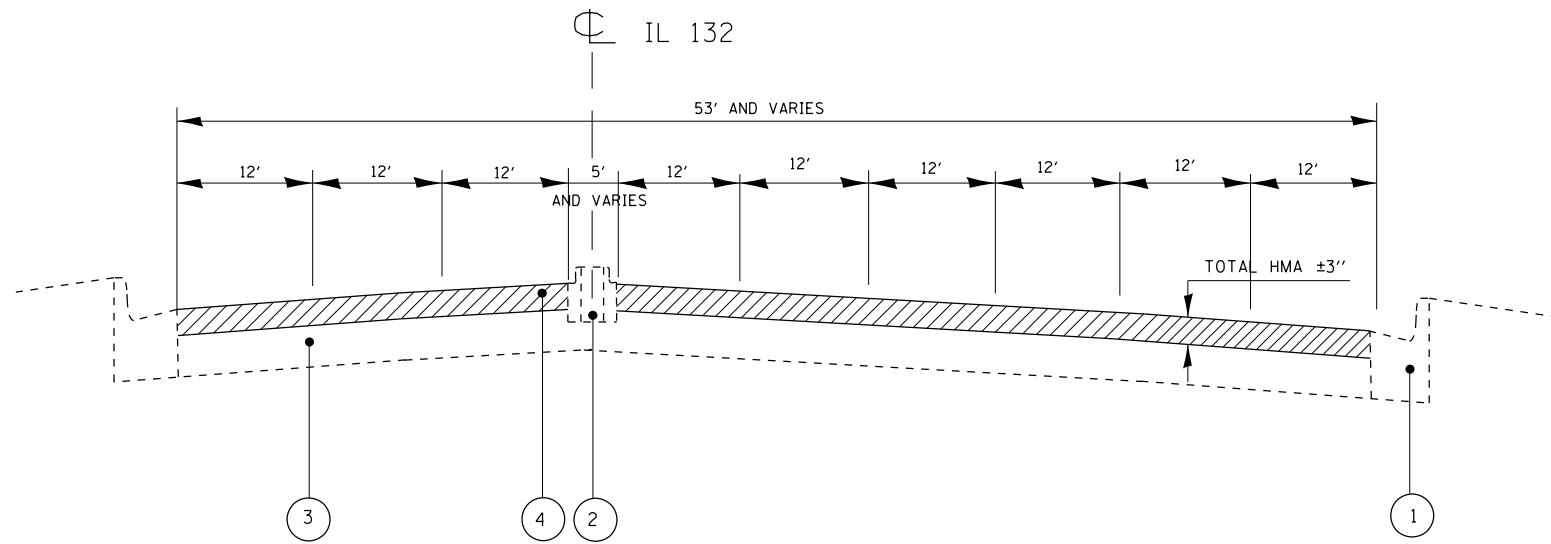


PROPOSED TYPICAL SECTION
 STA 85+00 TO STA 91+48
 STA 121+80 TO STA 130+20

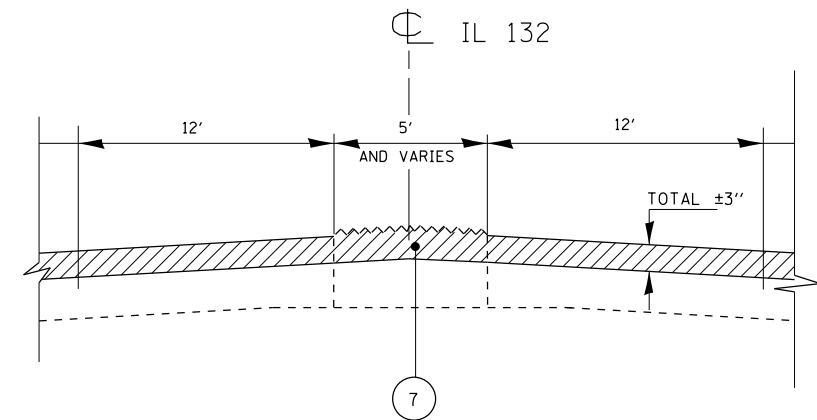
CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		AIR VOIDS Ndes	QUALITY MANAGEMENT PROGRAM (QMP)	IC
MIXTURE TYPE				
PAVEMENT RESURFACING				
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL-9.5 mm).		4% @ 70 GYR.	PPF	
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50.		3.5% @ 50 GYR.	OCP	9 PASSES
PATCHING				
CLASS D PATCHES (HMA BINDER IL-19 mm)		4% @ 70 GYR.	0c/0a	
CLASS D PATCHES (SPECIAL)				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL -9.5 mm) 2"		4% @ 50 GYR.	0c/0a	
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70.		4% @ 70 GYR.	0c/0a	
HOT-MIX MEDIAN SURFACE -4"				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL -9.5 mm) 4"		4% @ 50 GYR.	0c/0a	
DRIVEWAYS				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL -9.5 mm) 2"		4% @ 50 GYR.	0c/0a	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL -19 mm); PE -8"		4% @ 50 GYR.	0c/0a	
QMP Designation: Quality Control/Quality Assurance (QC/CA); Quality Control for Performance (OCP);				

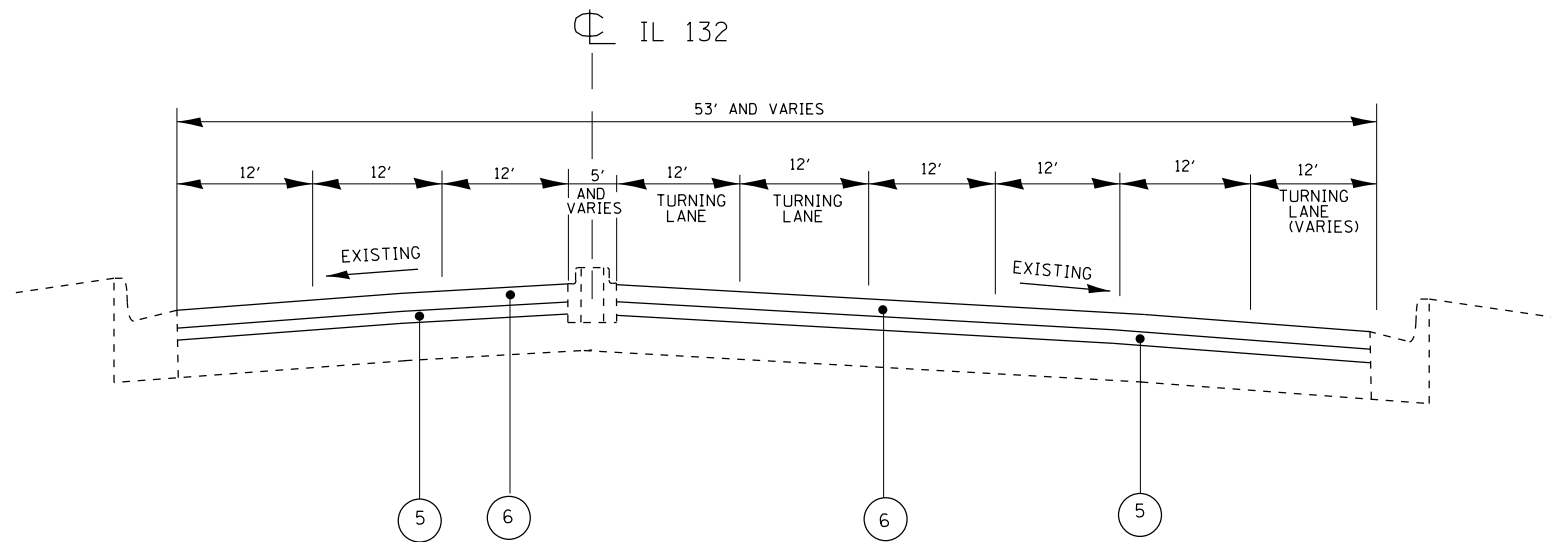
- NOTE:**
- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ.YD./IN
 - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
 - QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUANTITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
 - WHEN A NUMBER OF ROLLER PASSES IS SPECIFIED, THE CONTRACTOR MAY OPT TO USE INTELLIGENT COMPACTION (IC) IN LIEU OF DENSITY TESTING UNDER THE QUALITY CONTROL FOR PERFORMANCE (OCP) PROGRAM.



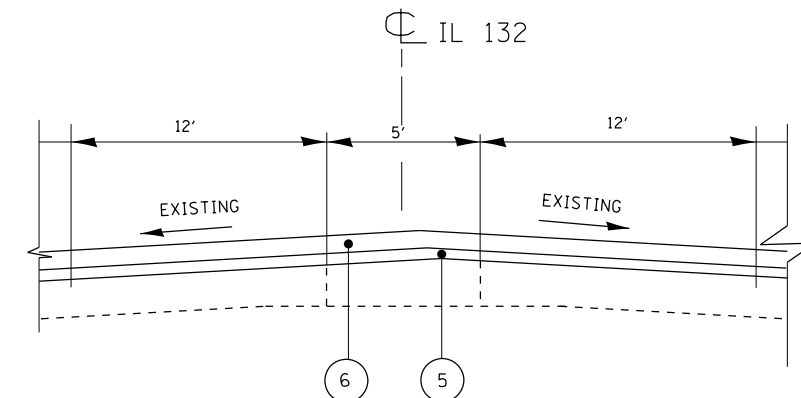
EXISTING TYPICAL SECTION
STA 32+00 TO STA 62+00



EXISTING CORRUGATED MEDIAN
STA 52+43 TO STA 55+81
STA 62+06 TO STA 66+92
STA 131+20 TO STA 132+19



PROPOSED TYPICAL SECTION
STA 32+00 TO STA 62+00



PROPOSED MEDIAN
STA 52+43 TO STA 55+81
STA 62+06 TO STA 66+92
STA 131+20 TO STA 132+19

LEGEND

- 1 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- 2 EXISTING CONCRETE RAISED MEDIAN
- 3 EXISTING PCC PAVEMENT ±10"
- 4 PROPOSED HMA SURFACE REMOVAL, ± 3"
- 5 PROPOSED POLYMERIZED LEVELING BINDER (MM) IL -4.75, N50, 1¼" AND VARIES
- 6 PROPOSED POLYMERIZED HMA SURFACE COURSE MIX "E", N70, 1¾"
- 7 PROPOSED MEDIAN REMOVAL (PARTIAL DEPTH)
- 8 EXISTING HMA SHOULDER
- 9 EXISTING AGGREGATE SHOULDER

CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

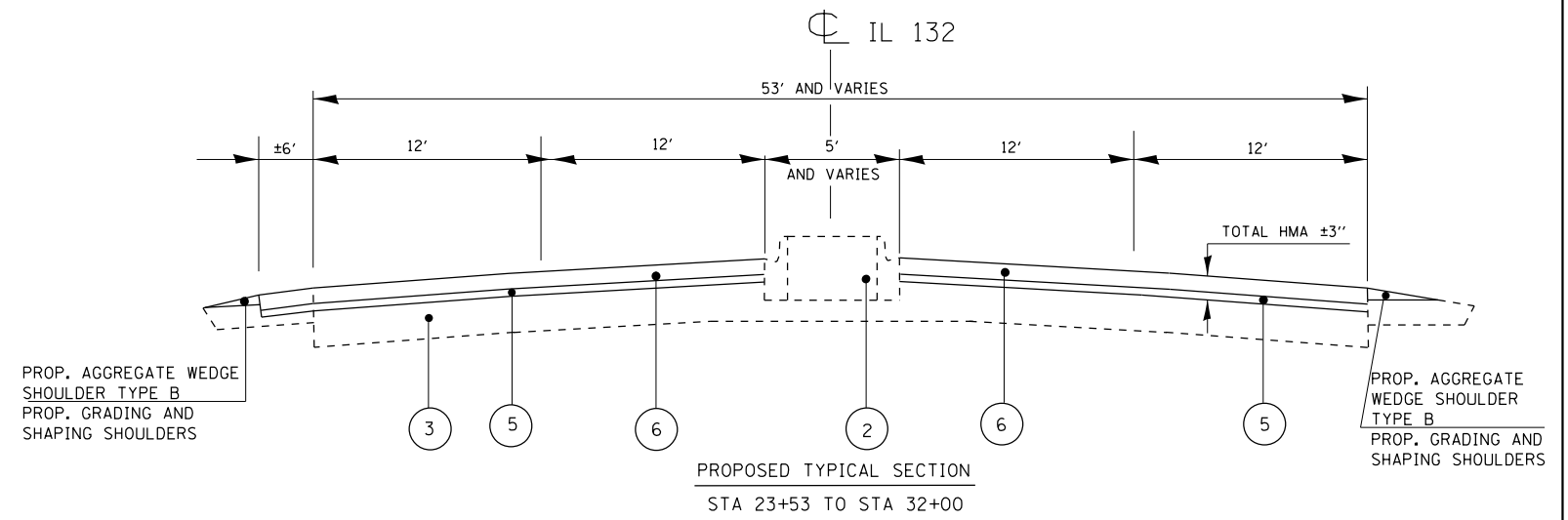
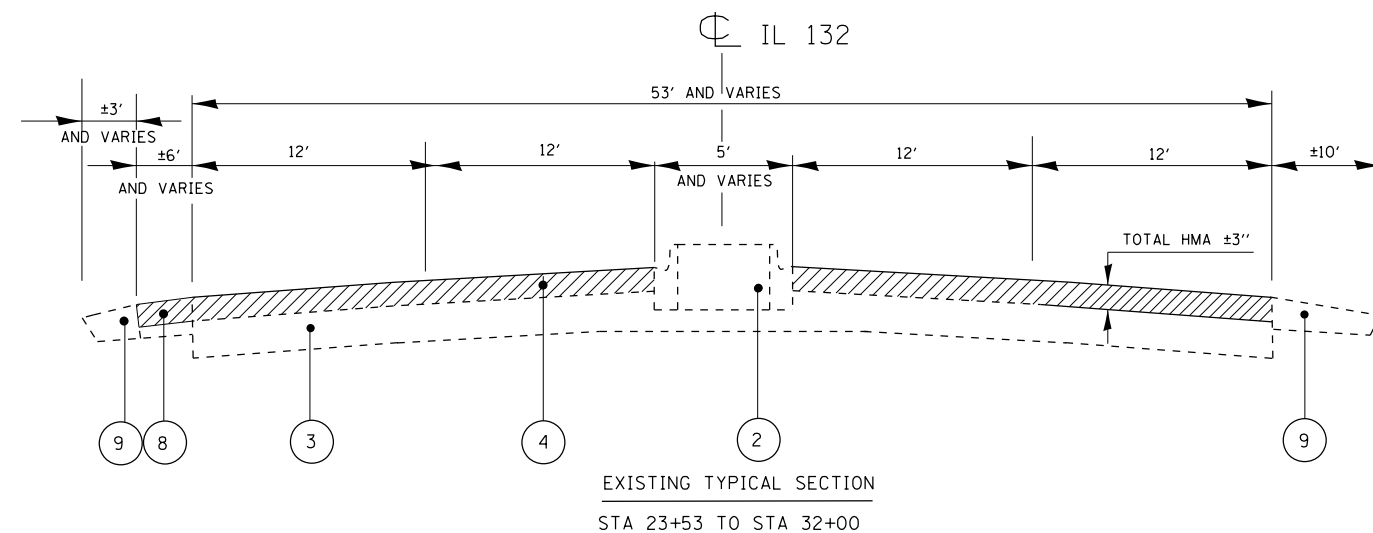
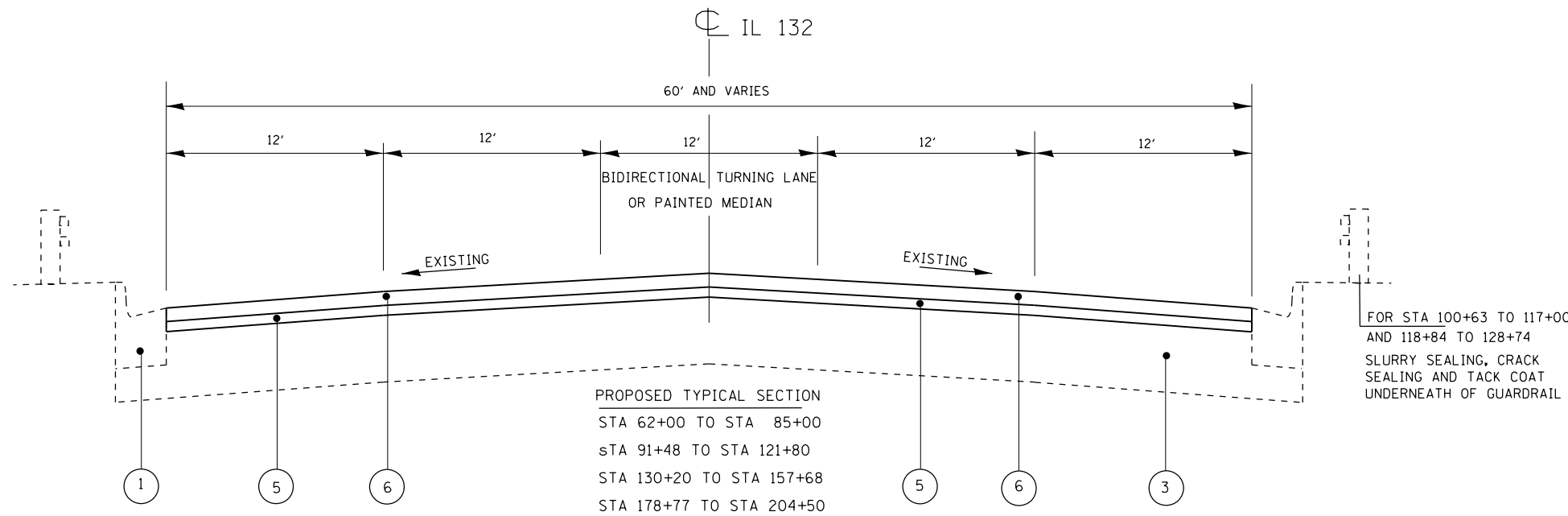
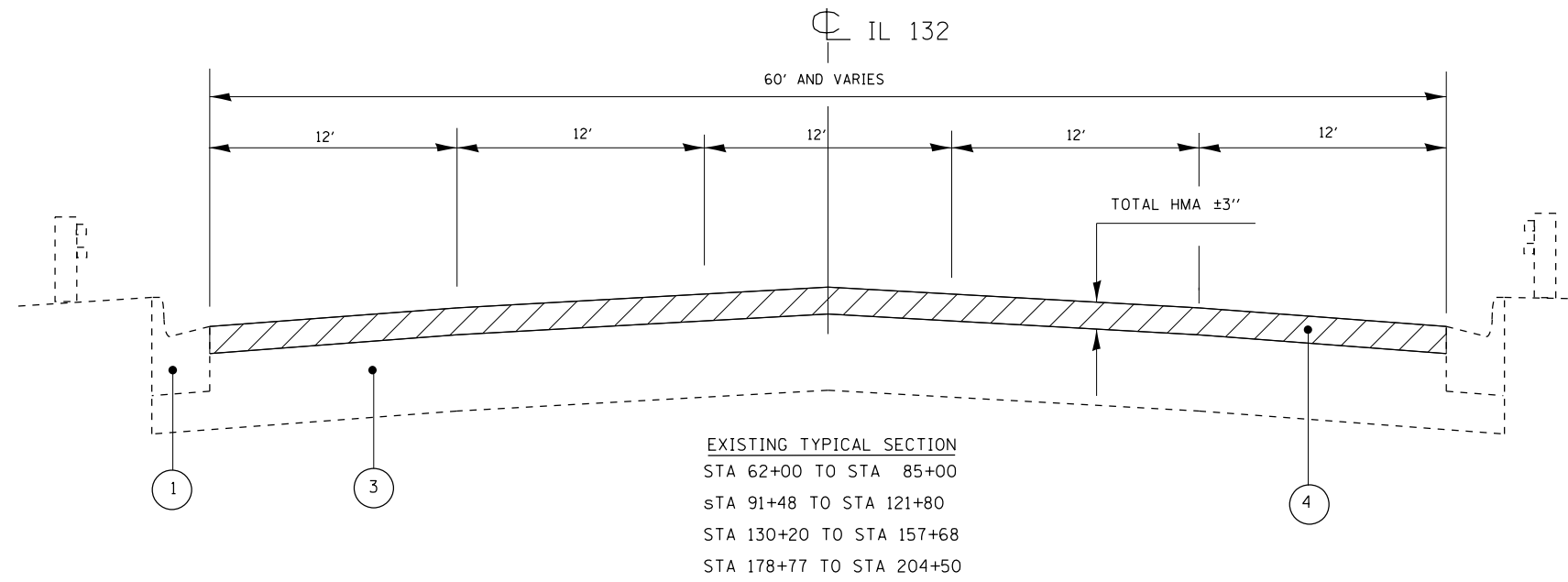
**EXISTING AND PROPOSED TYPICAL SECTIONS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	7
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

LEGEND

- 1 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- 2 EXISTING CONCRETE RAISED MEDIAN
- 3 EXISTING PCC PAVEMENT ±10"
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- 6 PROPOSED POLYMERIZED HMA SURFACE COURSE MIX "E", N70, 1¾"
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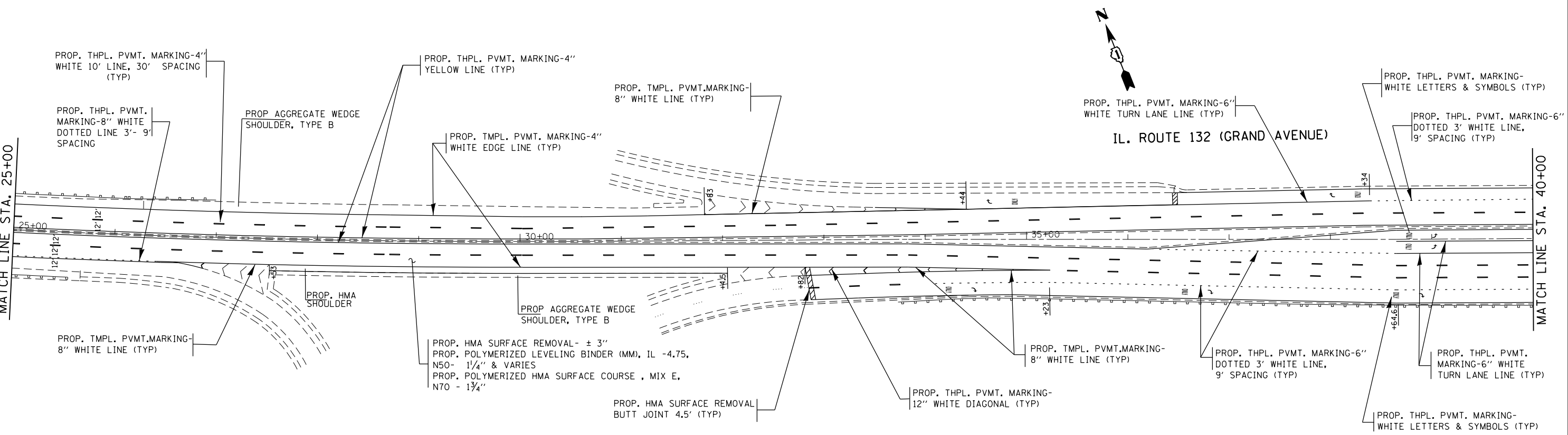
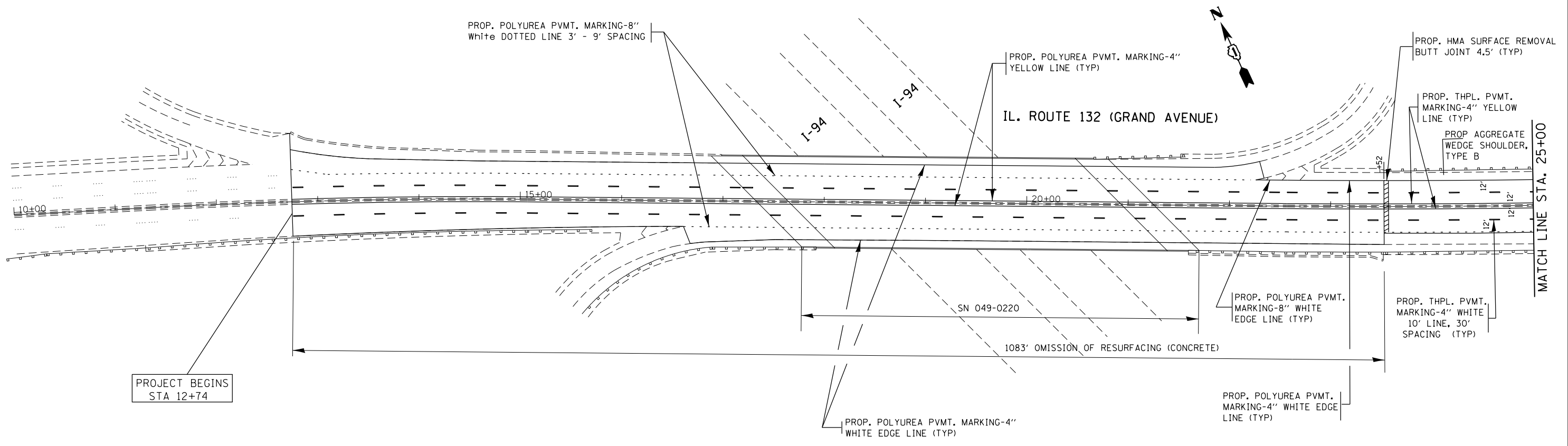
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

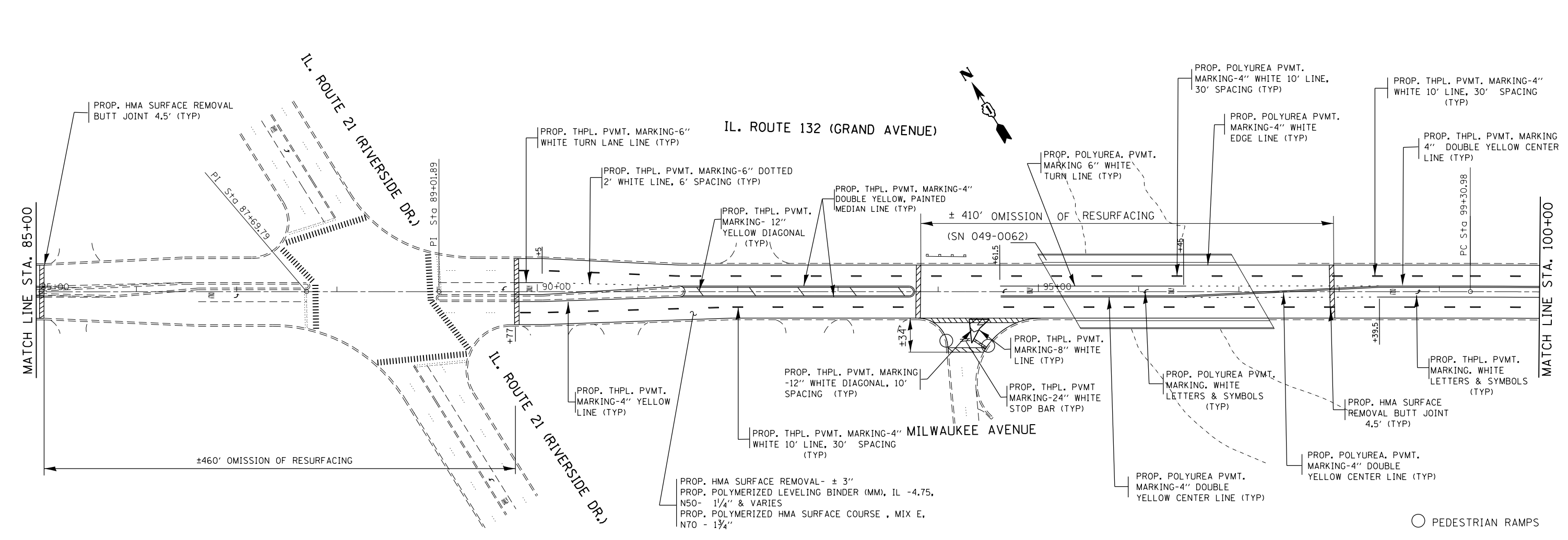
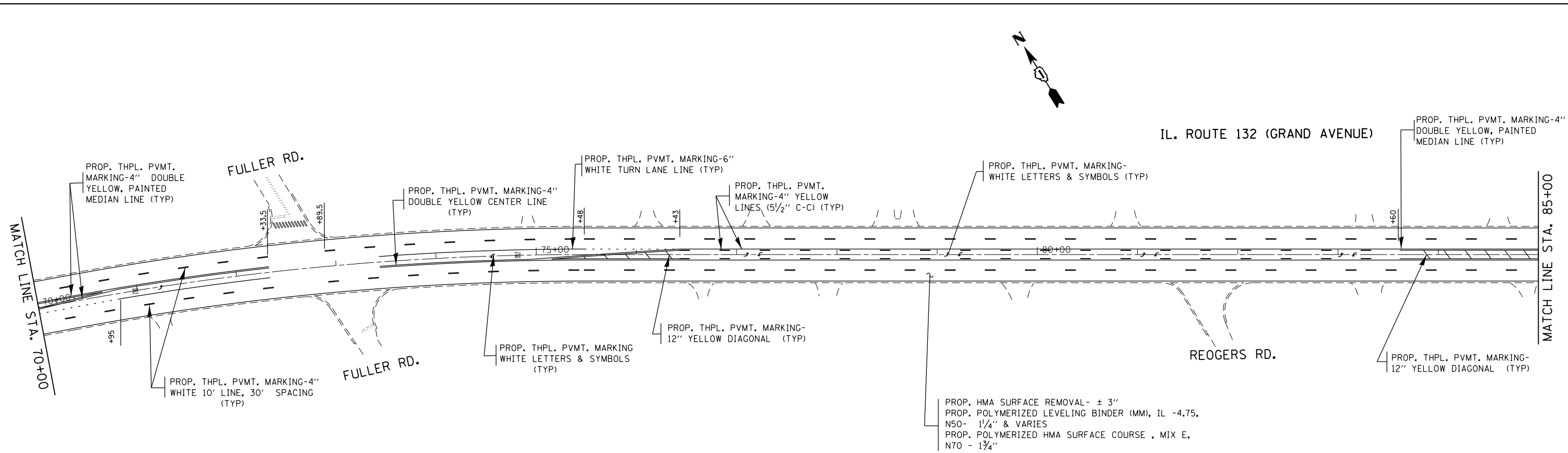
**EXISTING AND PROPOSED TYPICAL SECTIONS
 IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	8
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					541	2016-021RS	LAKE	57	9
Default	PLOT DATE = 3/5/2018	DATE -	REVISED -	SCALE: 1" = 50'			SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62C74 ILLINOIS FED. AID PROJECT			



○ PEDESTRIAN RAMPS

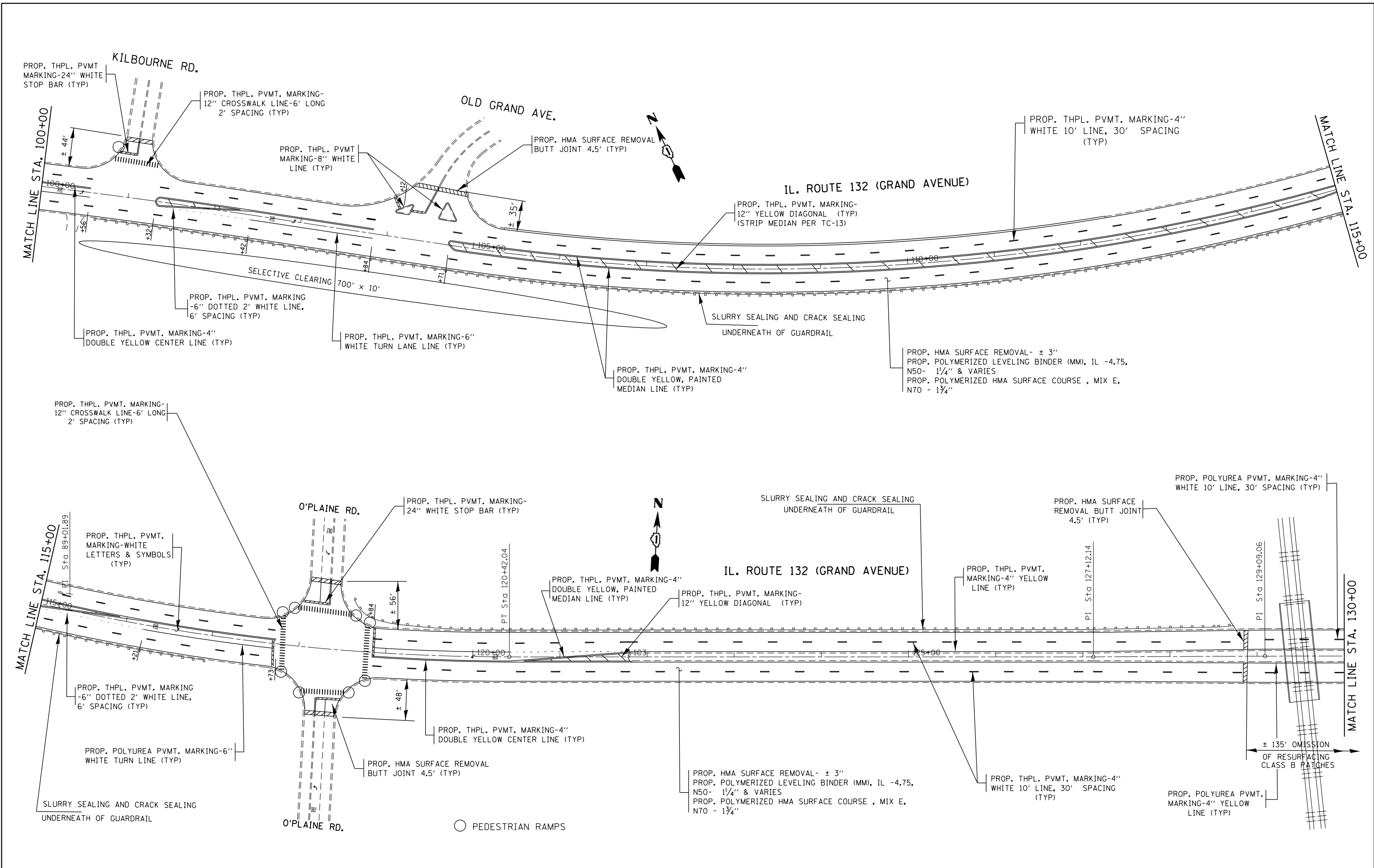
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	PLOT DATE = 3/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	11
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



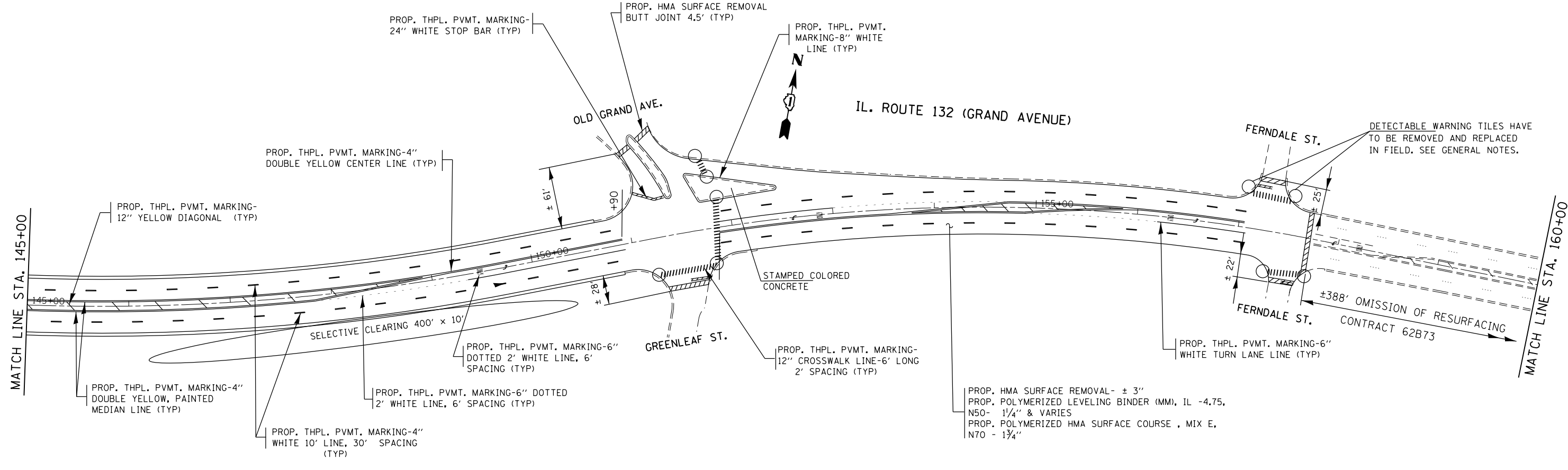
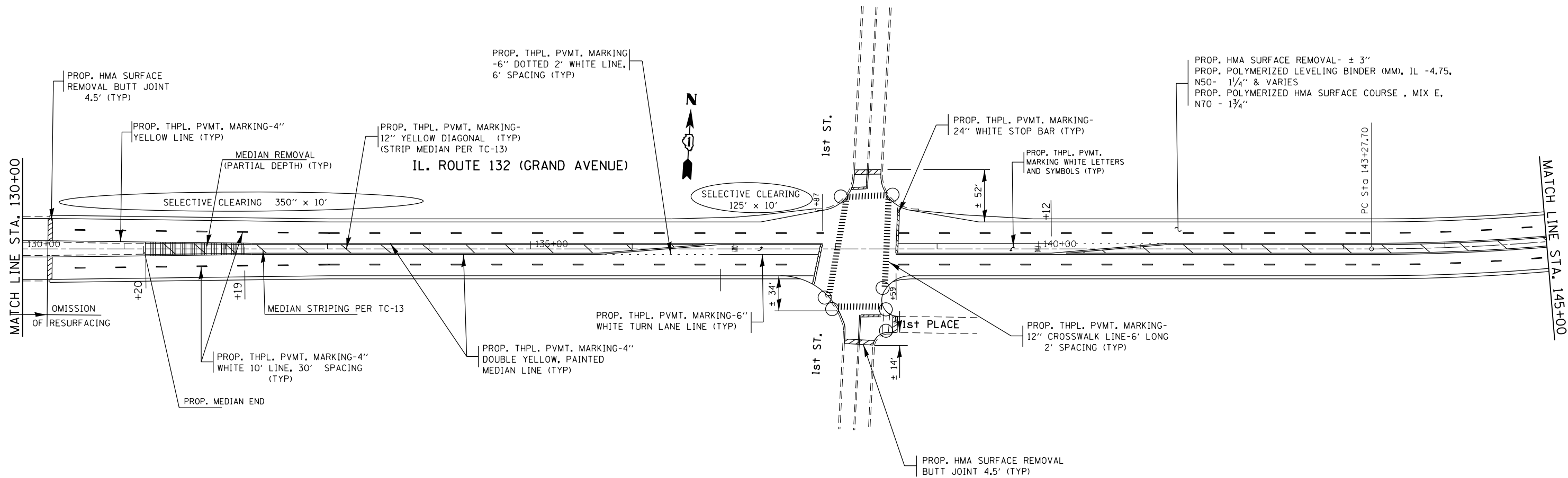
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/16/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

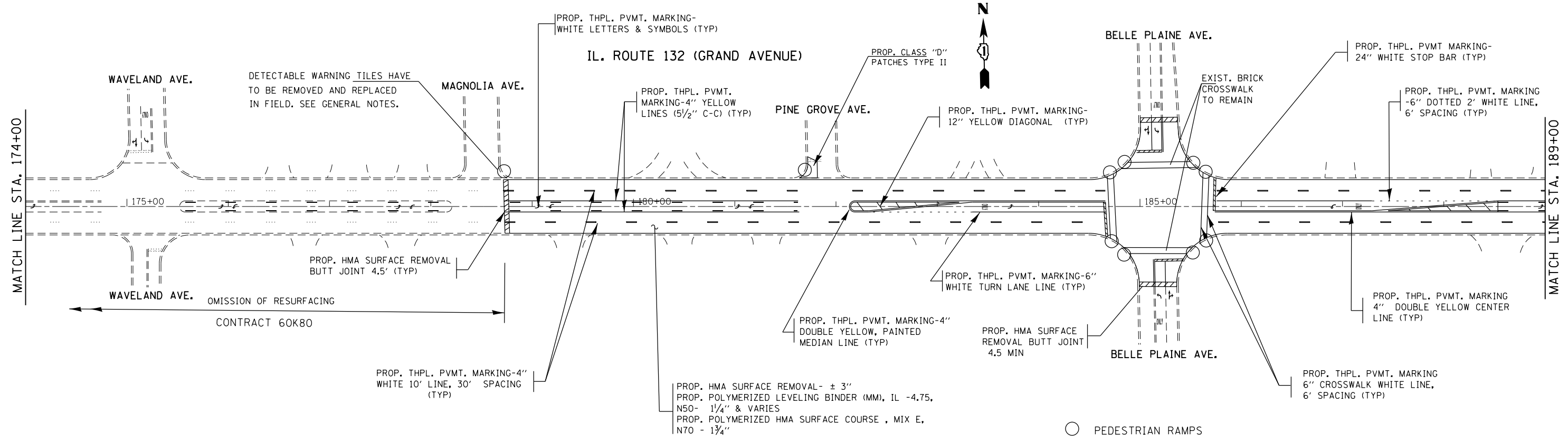
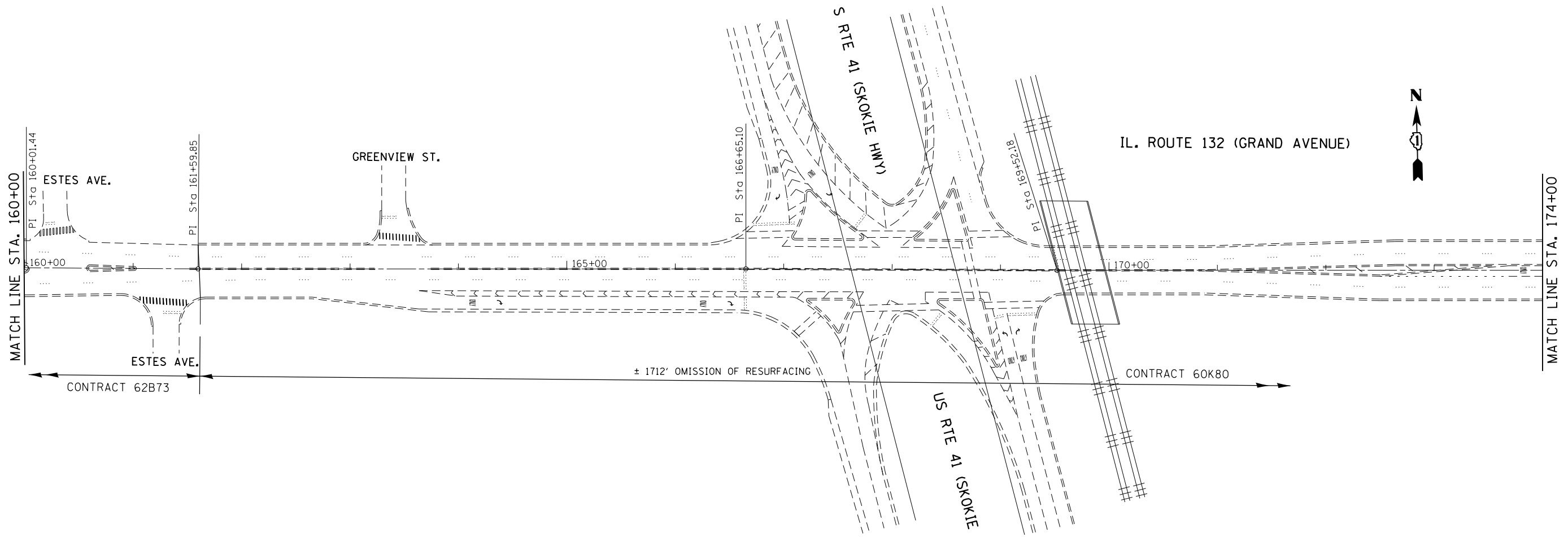
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	12
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

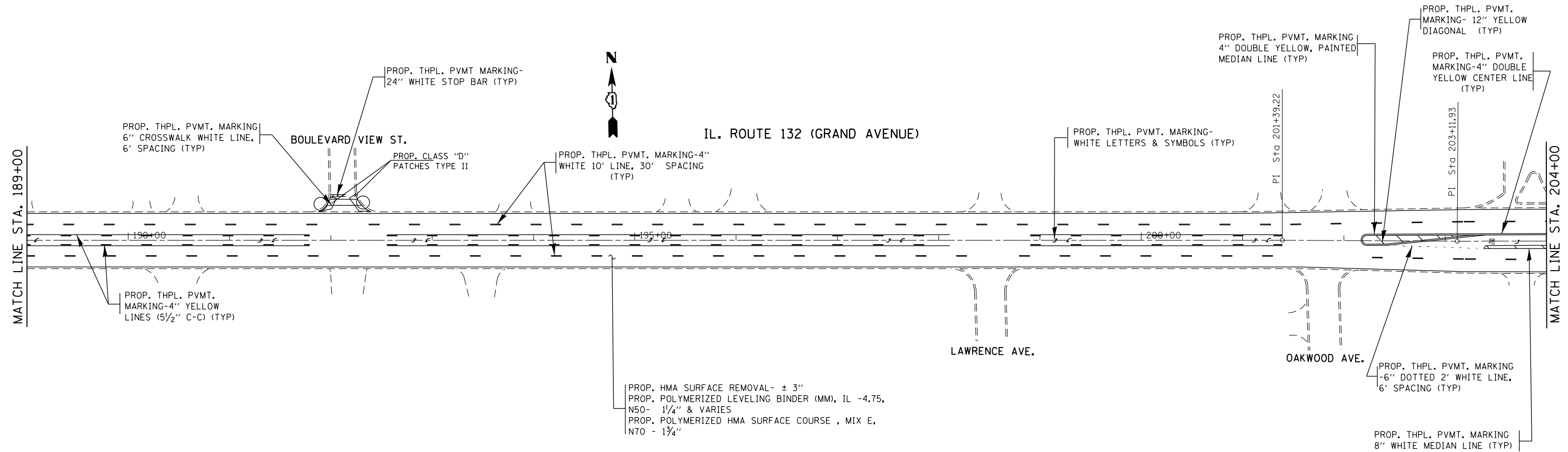


○ PEDESTRIAN RAMPS

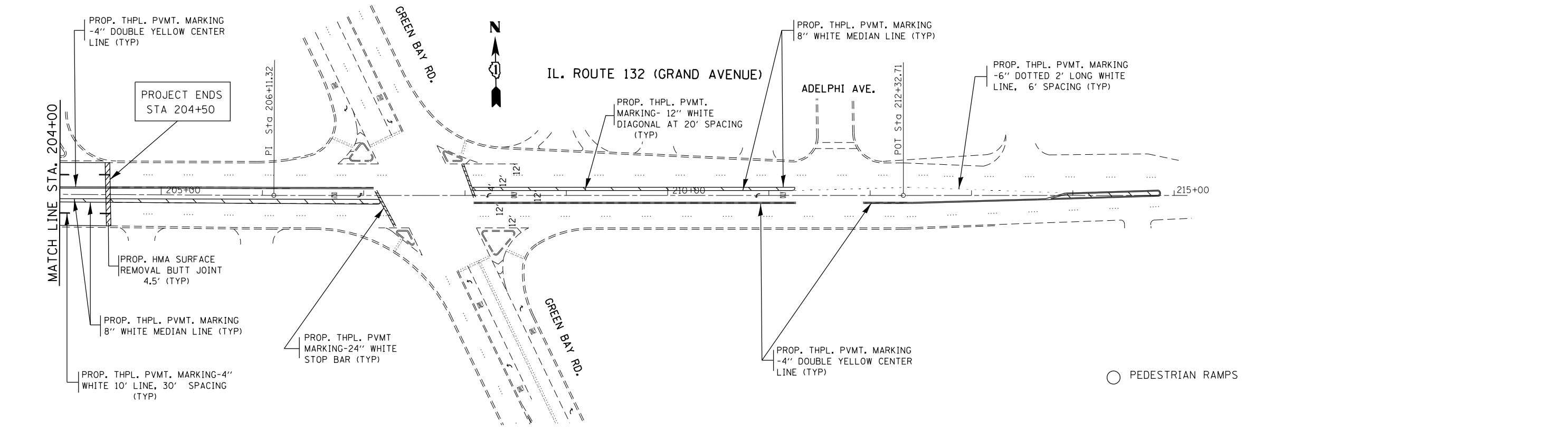
FILE NAME = p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI38116\Drawings\Design\DI38116-sht-plan.dgn	USER NAME = gorenautob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)			F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					541	2016-021RS	LAKE	57	13
Default	PLOT DATE = 4/16/2018	DATE -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62C74 ILLINOIS FED. AID PROJECT					



FILE NAME =	USER NAME = gorengautob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI38116\Drawings\Design\DI38116-sht-plan.dgn		DRAWN -	REVISED -			541	2016-021RS	LAKE	57	14
Default		CHECKED -	REVISED -			CONTRACT NO. 62C74				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



OMISSION OF RESURFACING
 STRIPING ONLY

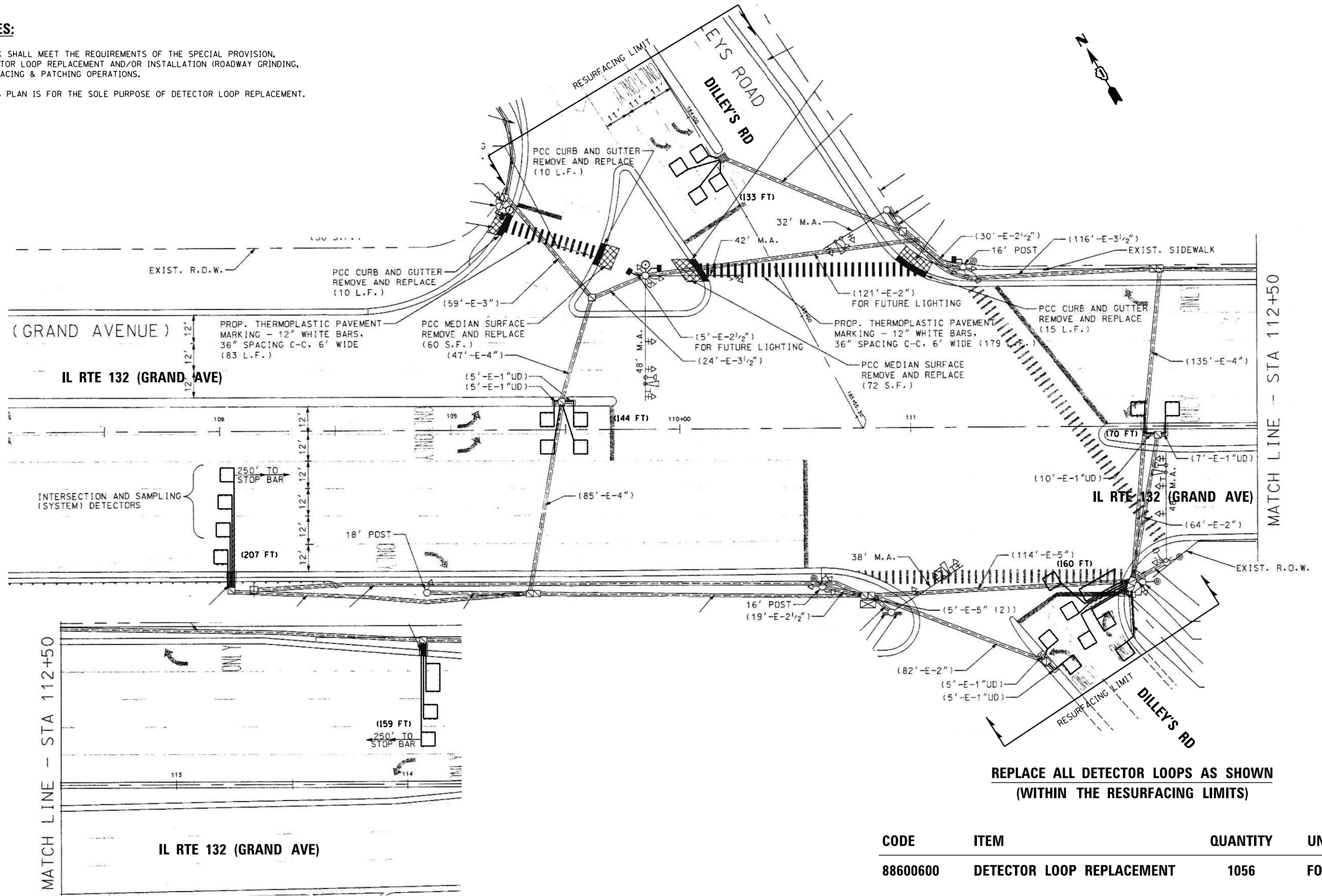


○ PEDESTRIAN RAMPS

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			541	2016-021RS	LAKE	57	15
Default	PLOT DATE = 4/16/2018	DATE -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62C74 ILLINOIS FED. AID PROJECT				

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

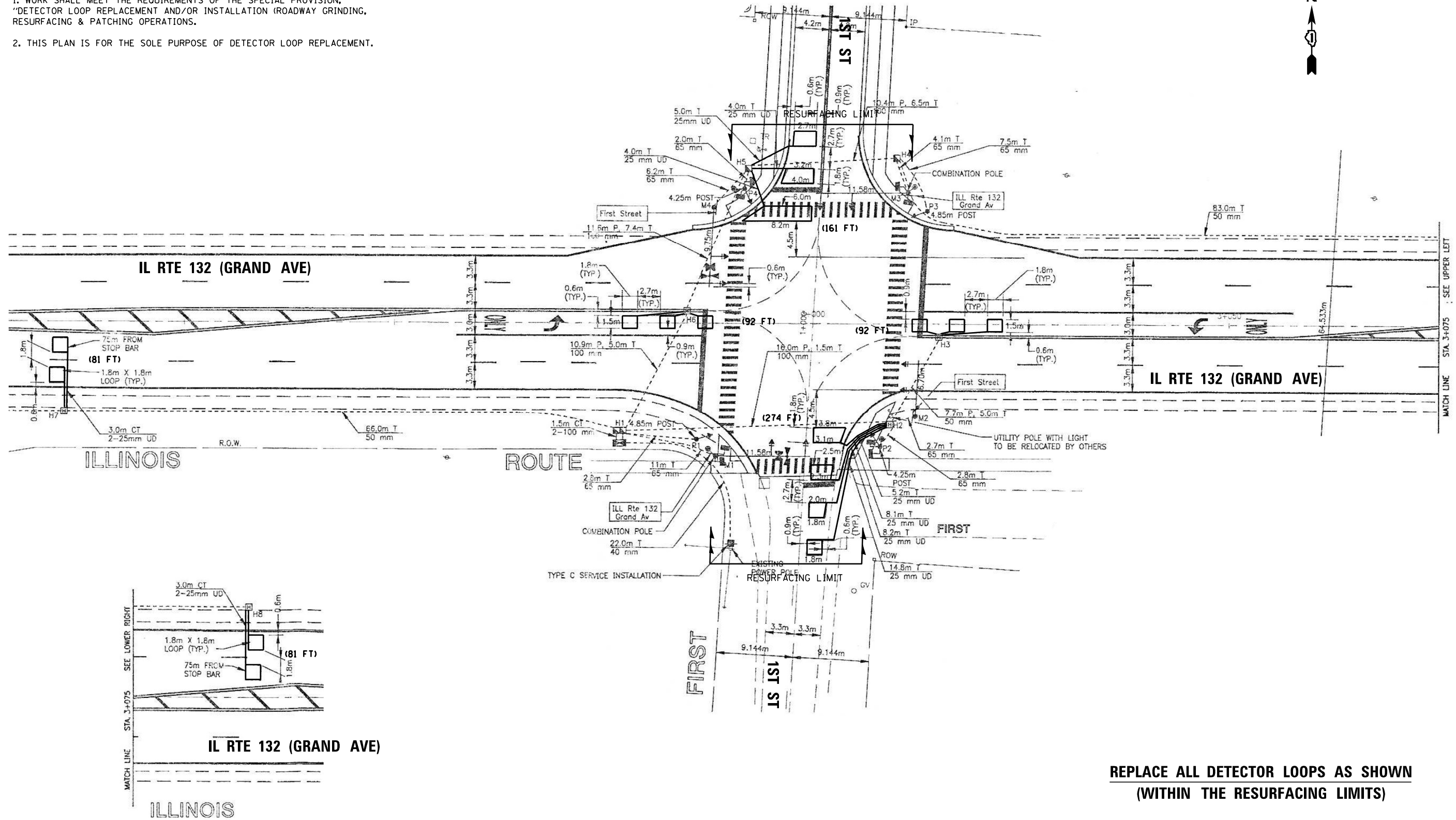


**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	1056	FOOT

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



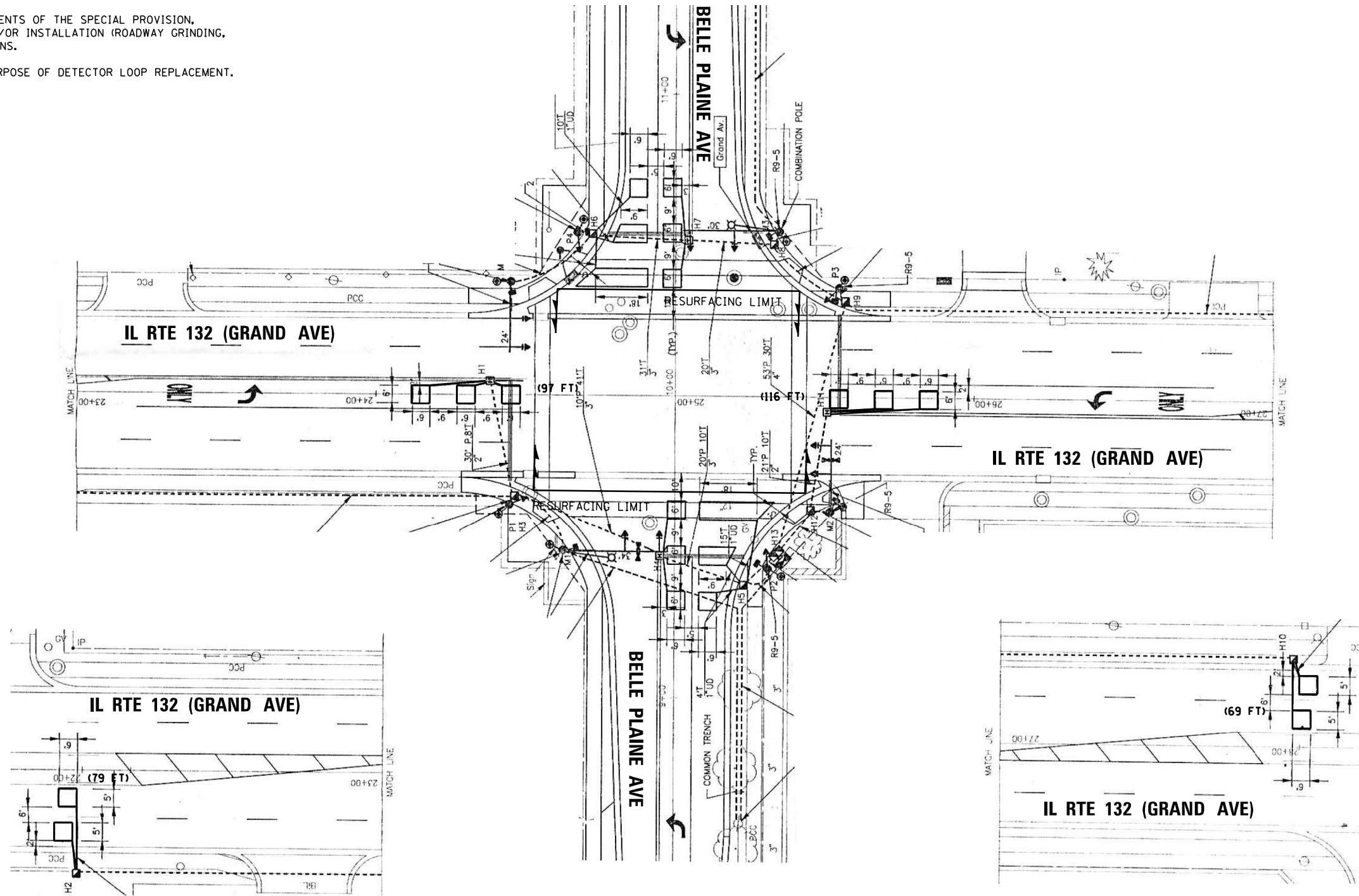
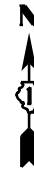
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	781	FOOT

FILE NAME = TS6551 - IL RTE 132 AT 1ST ST.10032017.dwg	USER NAME = nguyensm	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL RTE 132 (GRAND AVE) AT 1ST ST	F.A.P. RTE. 541	SECTION 2016-021RS	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 20	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -			CONTRACT NO. 62C74					
	PLOT DATE = 2/1/2018	DATE - 10/03/2017	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE: SHEET OF SHEETS STA. TO STA.					

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



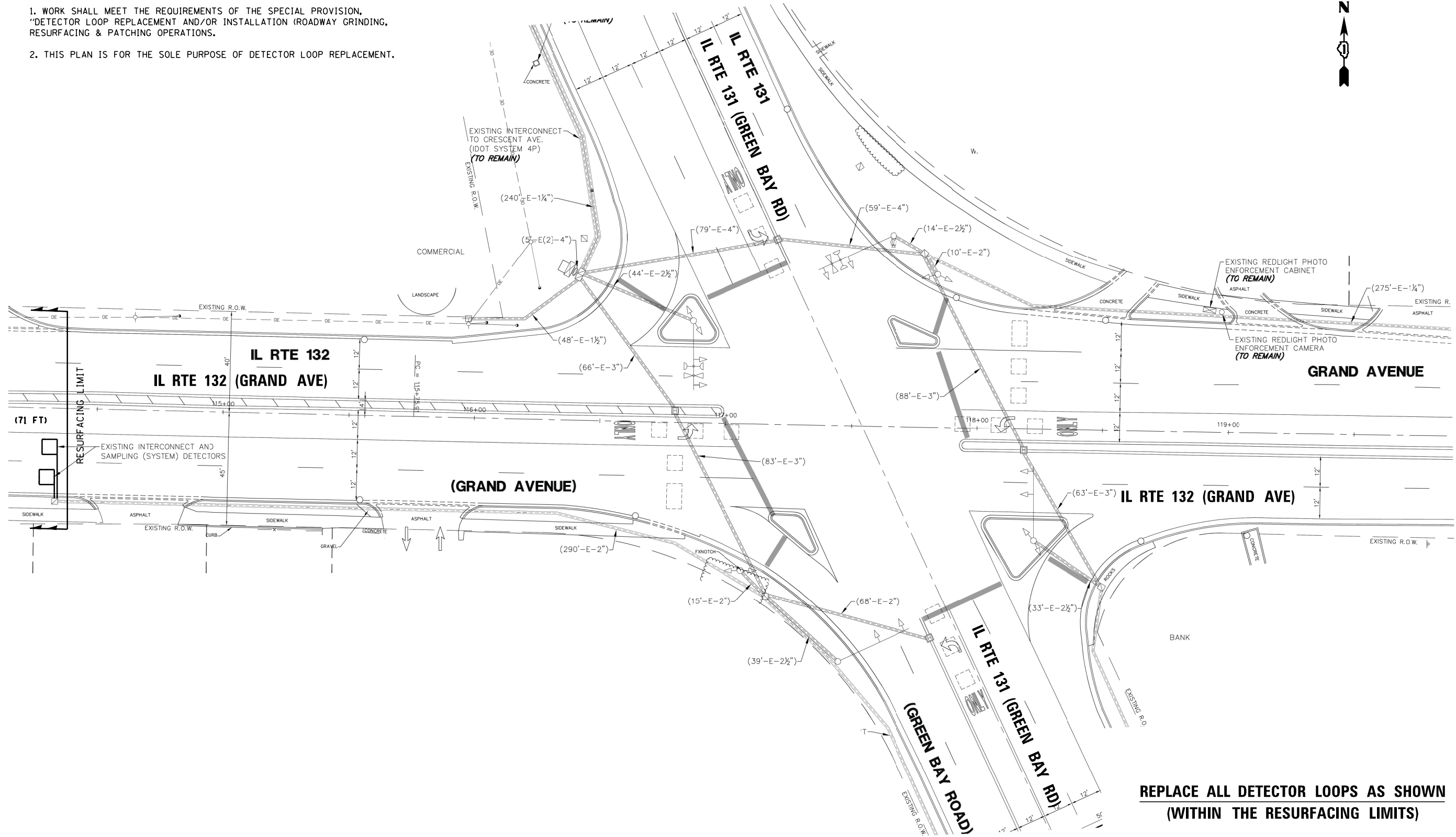
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	361	FOOT

FILE NAME = TS21195 - IL RTE 132 AT BELLE PLAINE AVE	USER NAME = nguyensm	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL RTE 132 (GRAND AVE) AT BELLE PLAINE AVE	F.A.P. RTE. 541	SECTION 2016-021RS	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 21	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -			CONTRACT NO. 62C74					
	PLOT DATE = 2/1/2018	DATE - 10/03/2017	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA.	TO

NOTES:

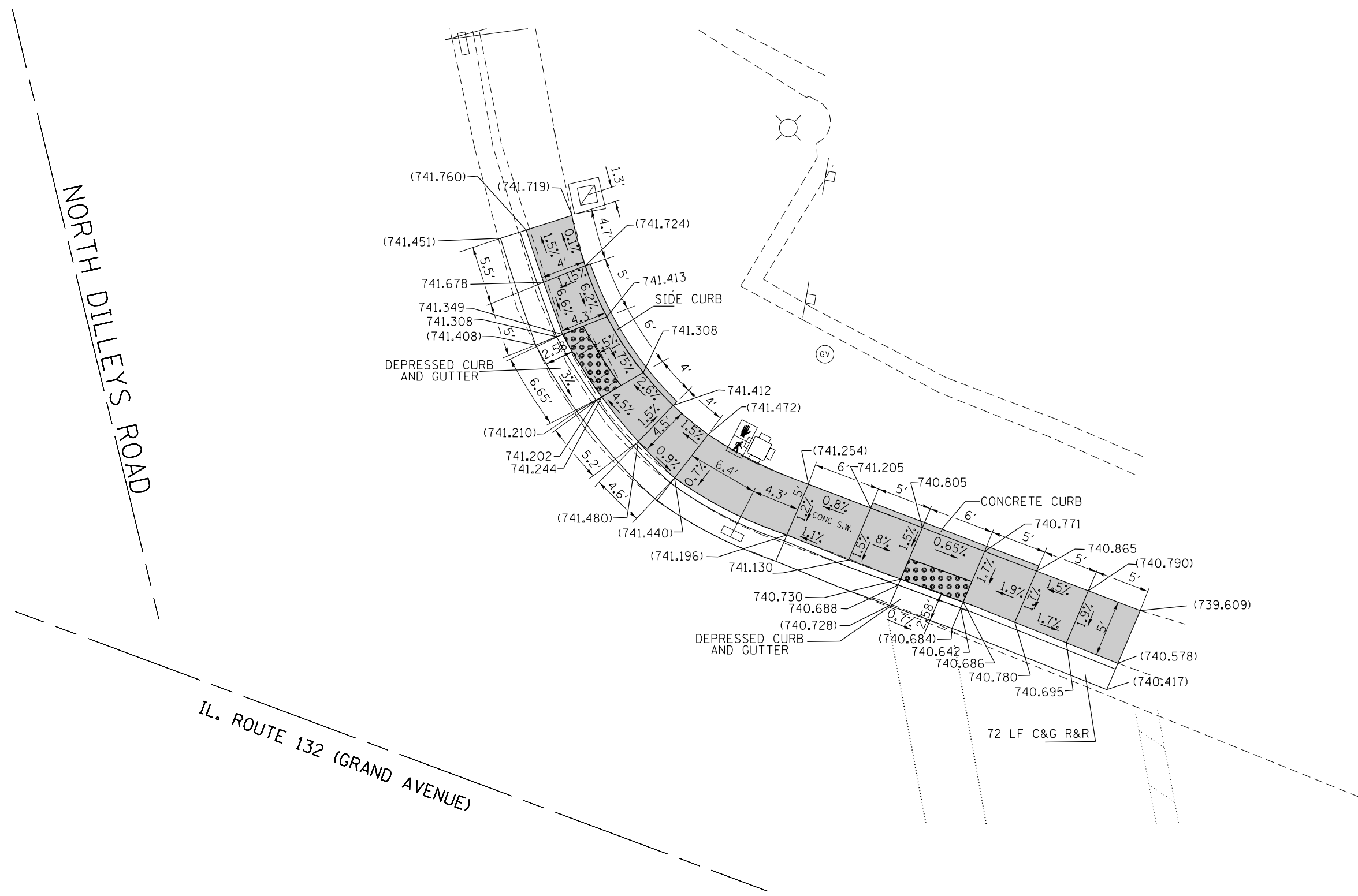
1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	71	FOOT

FILE NAME =	USER NAME = nguyensm	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL RTE 132 (GRAND AVE) AT IL RTE 131 (GREEN BAY RD)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS15020 - IL RTE 132 AT IL RTE 131.10032017.dgn		DRAWN - BAS	REVISED -		541	2016-021RS	LAKE	57	22				
PLOT SCALE = 40.0000' / in.		CHECKED - LP	REVISED -		CONTRACT NO. 62C74				ILLINOIS FED. AID PROJECT				
Default		DATE - 10/03/2017	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.				



REFERENCE BENCHMARK ELEV 742.022

BENCHMARK : SOUTHWEST CORNER OF DILLEY RD AND GRAND AVE IN SQUARE OF TRAFFIC SIGNAL POLE

LOCATION : NORTNEAST CORNER OF DILLEY RD AND GRAND AVE

LEGEND

- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

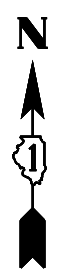
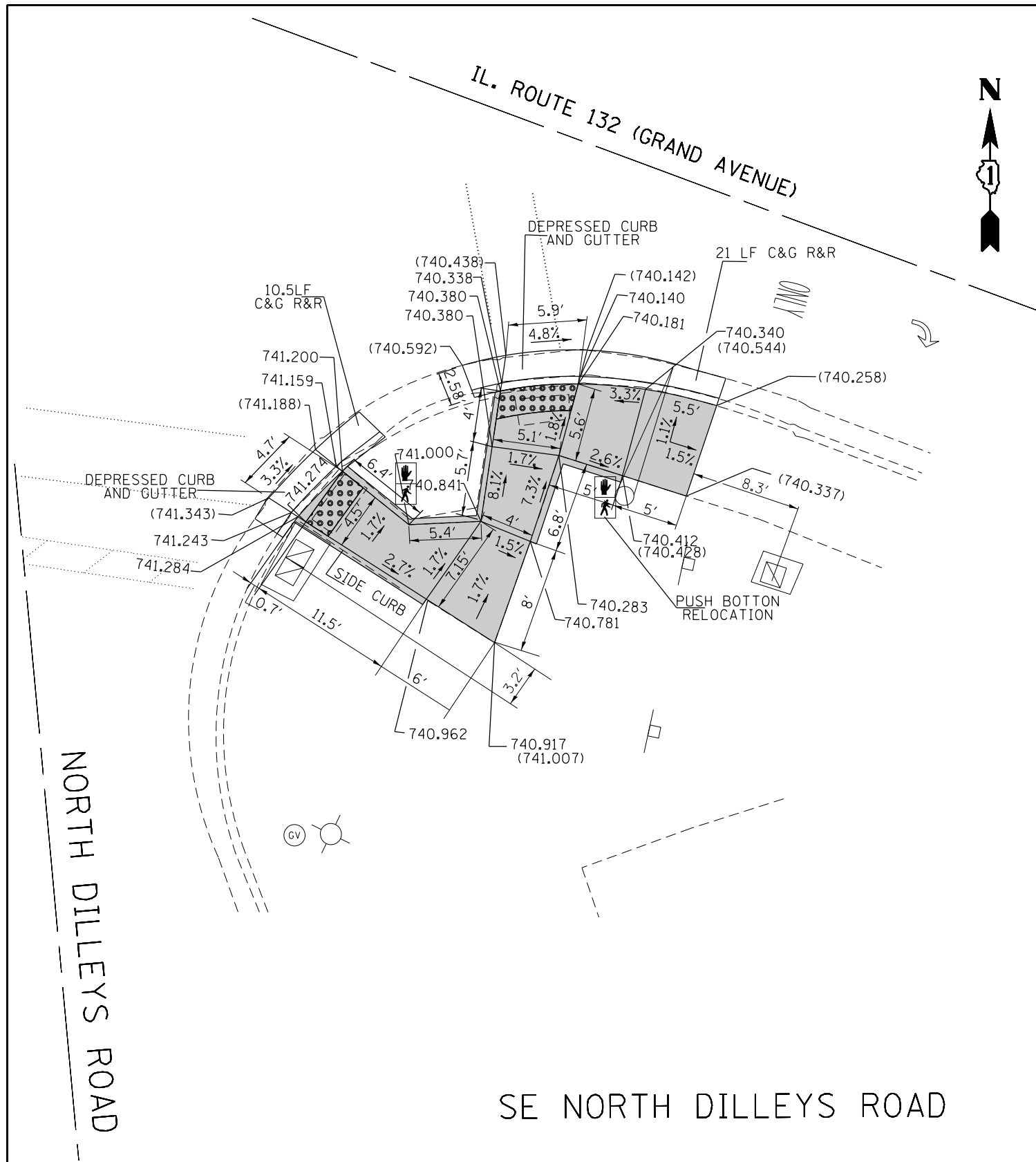
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pw\IL084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\138116\138116-ADA\Design\138116-ADA-Design.dgn		REVISIONS	
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/9/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C74	



NORTH DILLEYS ROAD

IL. ROUTE 132 (GRAND AVENUE)

SE NORTH DILLEYS ROAD

REFERENCE BENCHMARK ELEV 742.022
 BENCHMARK : SOUTHWEST CORNER OF DILLEY RD AND GRAND AVE IN SQUARE OF TRAFFIC SIGNAL POLE
 LOCATION : SOUTHEAST CORNER OF DILLEY RD AND GRAND AVE

LEGEND

- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

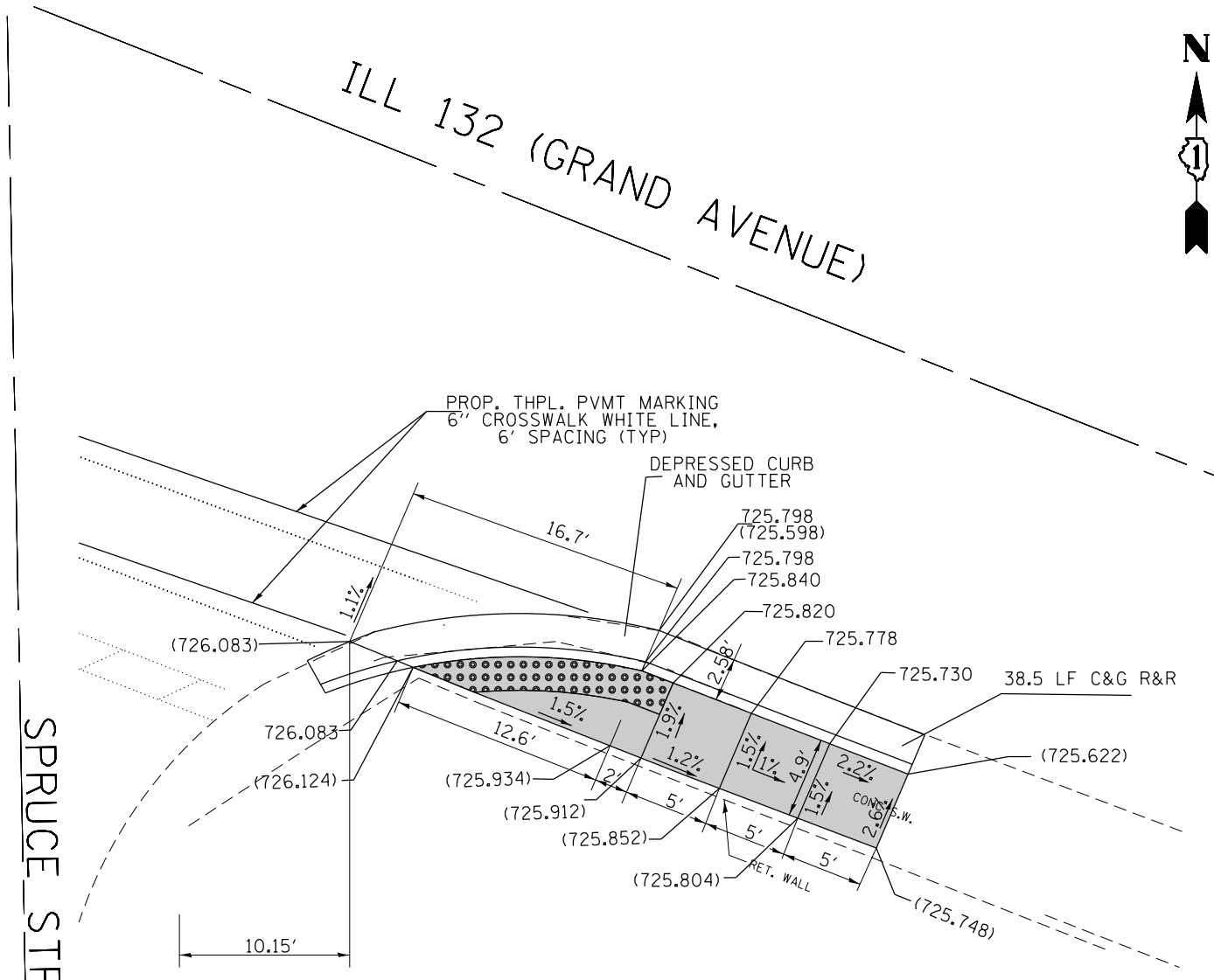
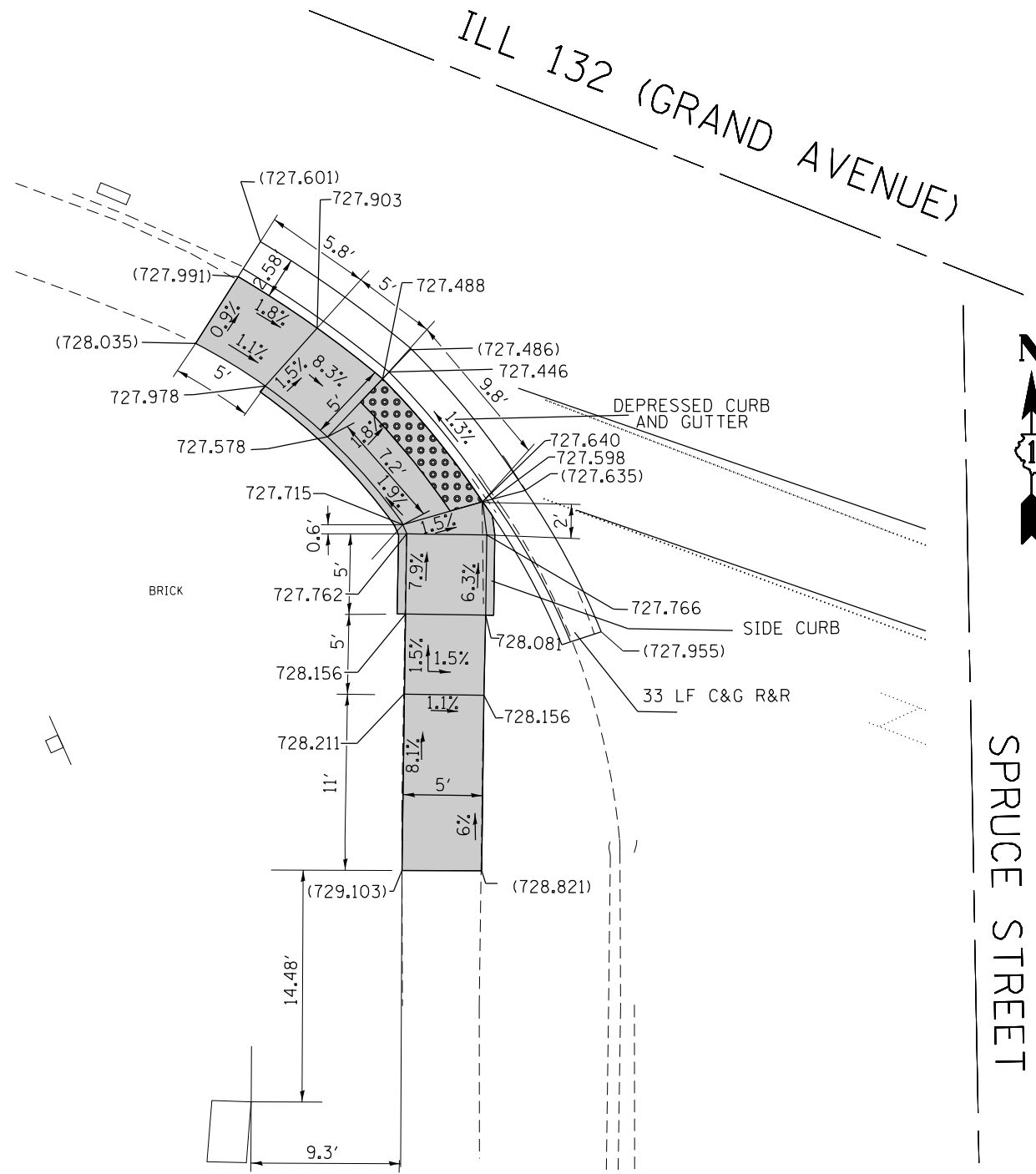
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Default	PLOT DATE = 3/9/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	25
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



SPRUCE STREET

SPRUCE STREET

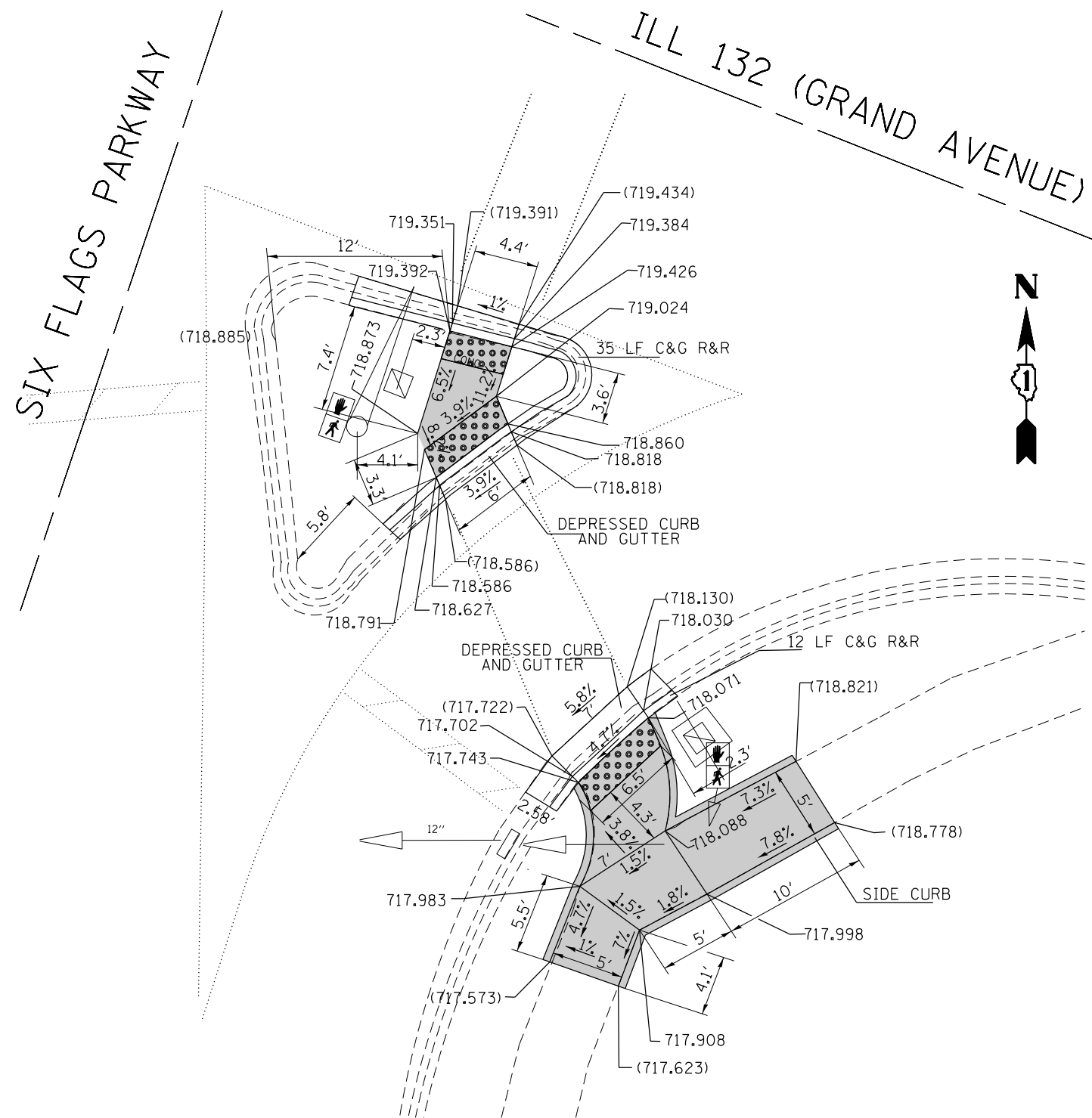
REFERENCE BENCHMARK ELEV 727.769
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTH OF GRAND AVE, EAST OF SPRUCE ST
 LOCATION : SOUTHWEST CORNER OF SPRUCE ST AND GRAND AVE

LEGEND

- ===== EXISTING LENGTH
- ===== PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 727.769
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTH OF GRAND AVE, EAST OF SPRUCE ST
 LOCATION : SOUTHEAST CORNER OF SPRUCE ST AND GRAND AVE

FILE NAME :	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ADA RAMP DETAILS IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						541	2016-021RS	LAKE	57	26
						CONTRACT NO. 62C74				
						ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV 717.781
 BENCHMARK : SQUARE AT NORTHEAST CORNER OF LAWSON BLVD AND GRAND AVE AT TOP OF CATCH BASIN
 LOCATION : SOUTHEAST CORNER OF SIX FLAGS PARKWAY AND GRAND AVE

LEGEND

- EXISTING LENGTH
- == PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- ▣ DETECTABLE WARNINGS
- ▤ SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

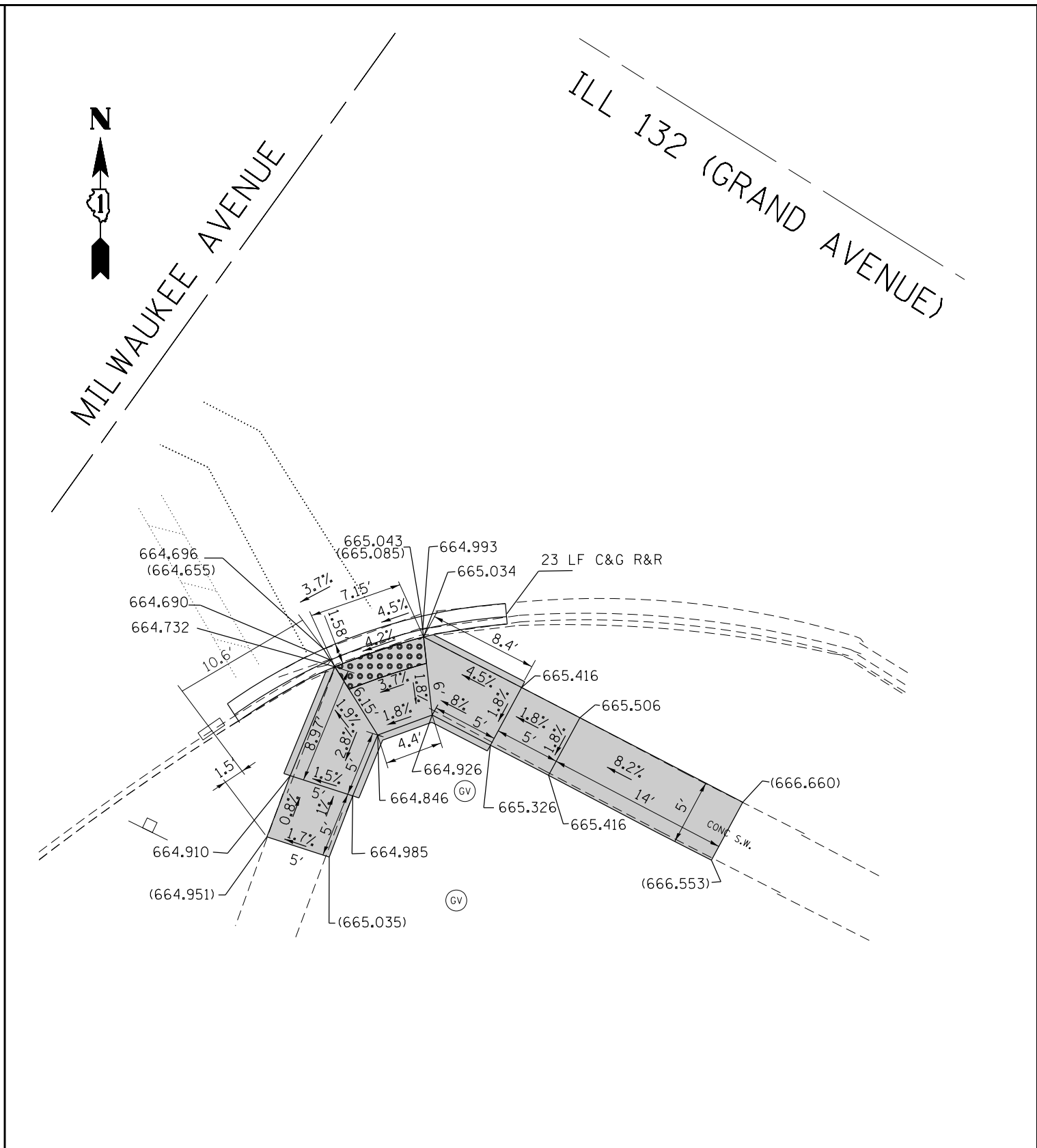
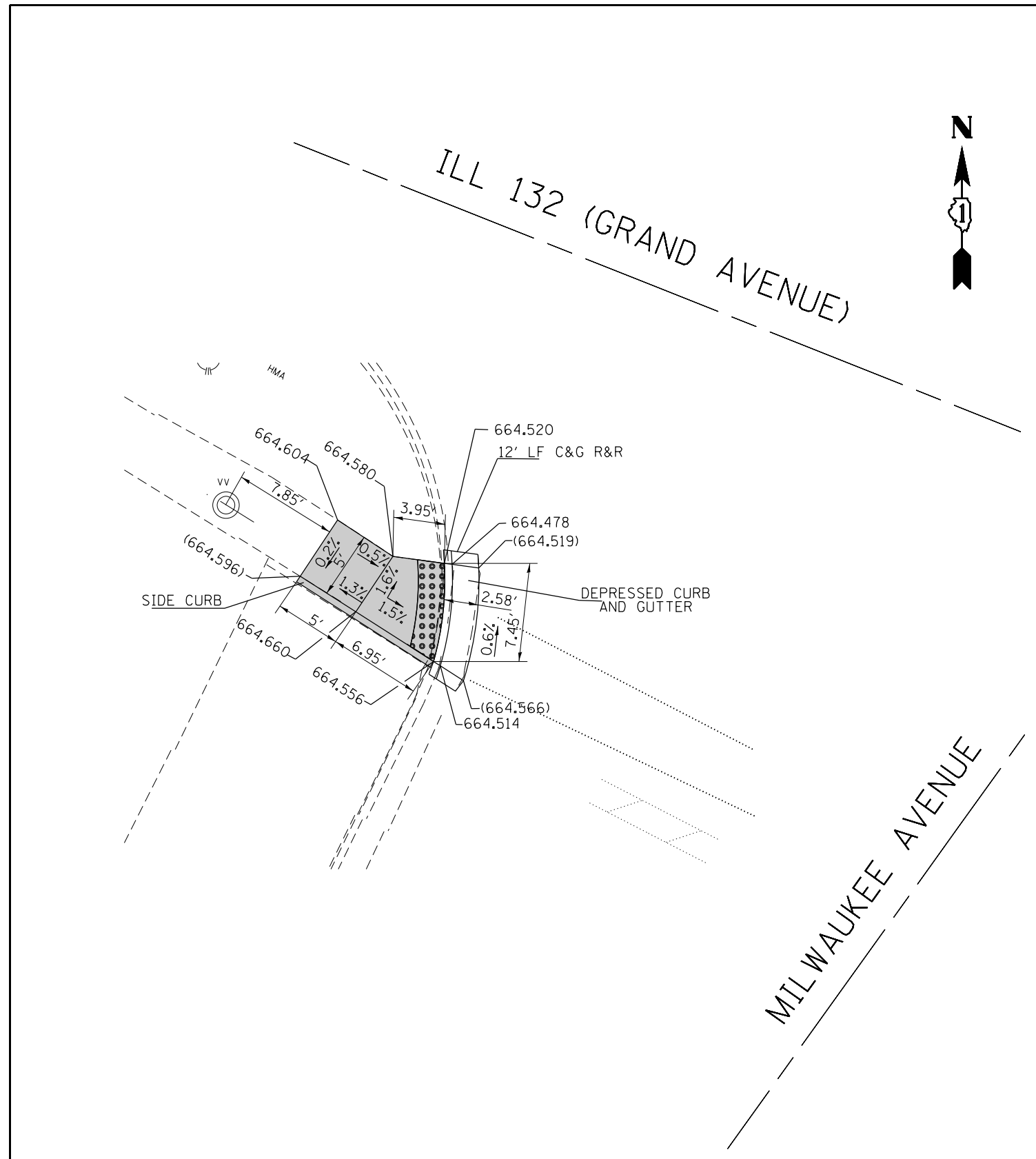
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Default	PLOT SCALE = 10.0000' / 1"	DATE -	REVISED -
	PLOT DATE = 3/9/2018		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	29
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



REFERENCE BENCHMARK ELEV 666.040
 BENCHMARK : POWER LIGHT POLE WITH SPIKE NEAR CP 10 AT NORTH OF MILWAUKEE AVE AND GRAND AVE
 LOCATION : SOUTHWEST CORNER OF MILWAUKEE AVE AND GRAND AVE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD
- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE

REFERENCE BENCHMARK ELEV 666.040
 BENCHMARK : POWER LIGHT POLE WITH SPIKE NEAR CP10 AT NORTH OF MILWAUKEE AVE
 LOCATION : SOUTHEAST CORNER OF MILWAUKEE AVE AND GRAND AVE

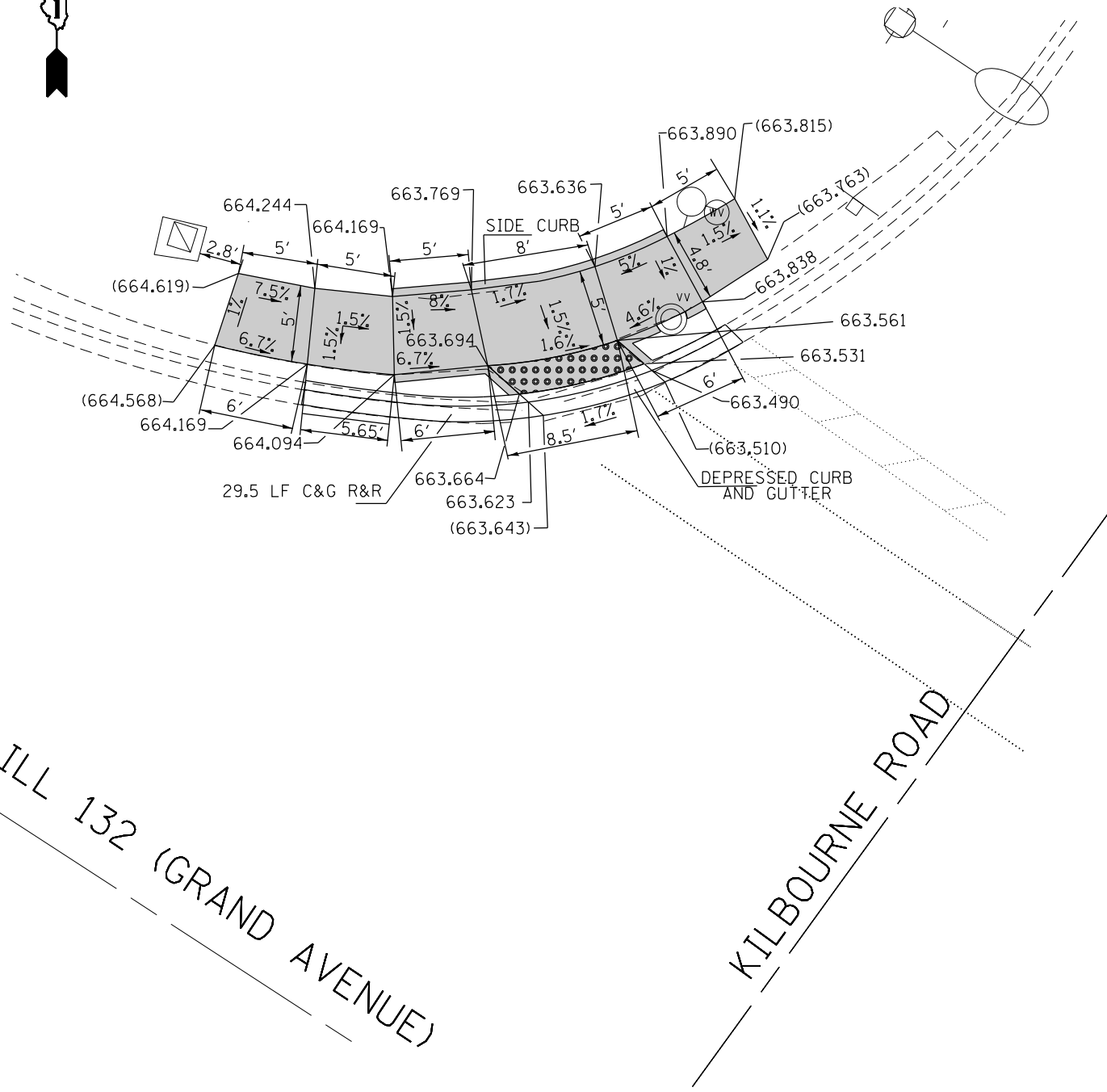
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISD -
	PLOT DATE = 3/9/2018	DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	30
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV 666.145
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTHWEST CORNER AT KILBOURNE RD AND GRAND AVE
 LOCATION : NORTHWEST CORNER OF KILBOURNE RD AND GRAND AVE

LEGEND

- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

FILE NAME :	USER NAME = gorengautab	DESIGNED -	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	DATE -	REVISED -
	PLOT DATE = 3/9/2018		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

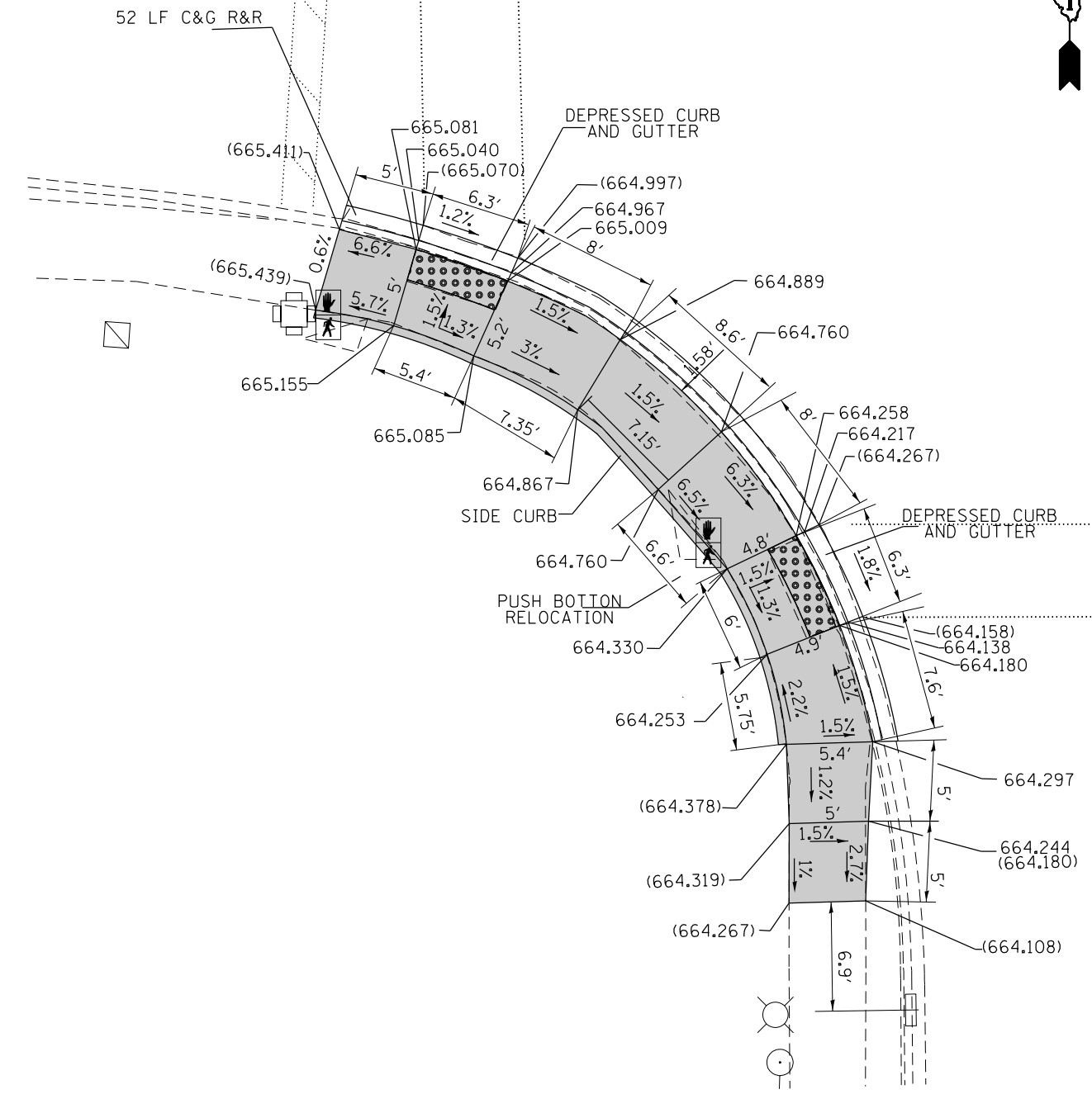
ADA RAMP DETAILS	
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	31
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

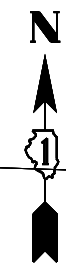
ILL 132 (GRAND AVENUE)



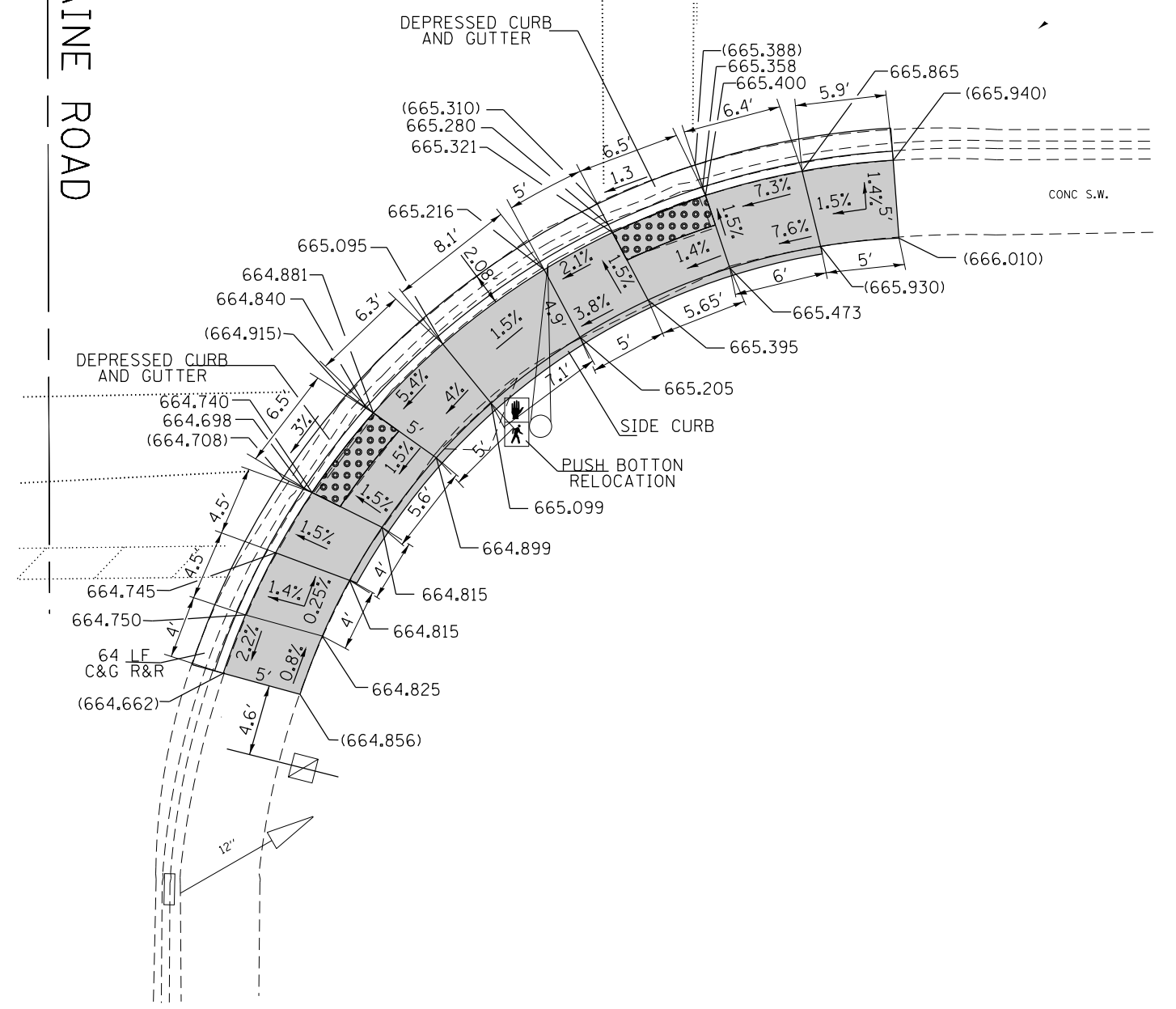
O'PLAINE ROAD



ILL 132 (GRAND AVENUE)



O'PLAINE ROAD



REFERENCE BENCHMARK ELEV 663.627

BENCHMARK : SOUTHEAST SQUARE AT TOP OF CATCH BASIN AT NORTHWEST CORNER AT O'PLANE RD AND GRAND AVE

LOCATION : SOUTHWEST CORNER OF O'PLANE RD AND GRAND AVE

LEGEND

- ===== EXISTING LENGTH
- ===== PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE

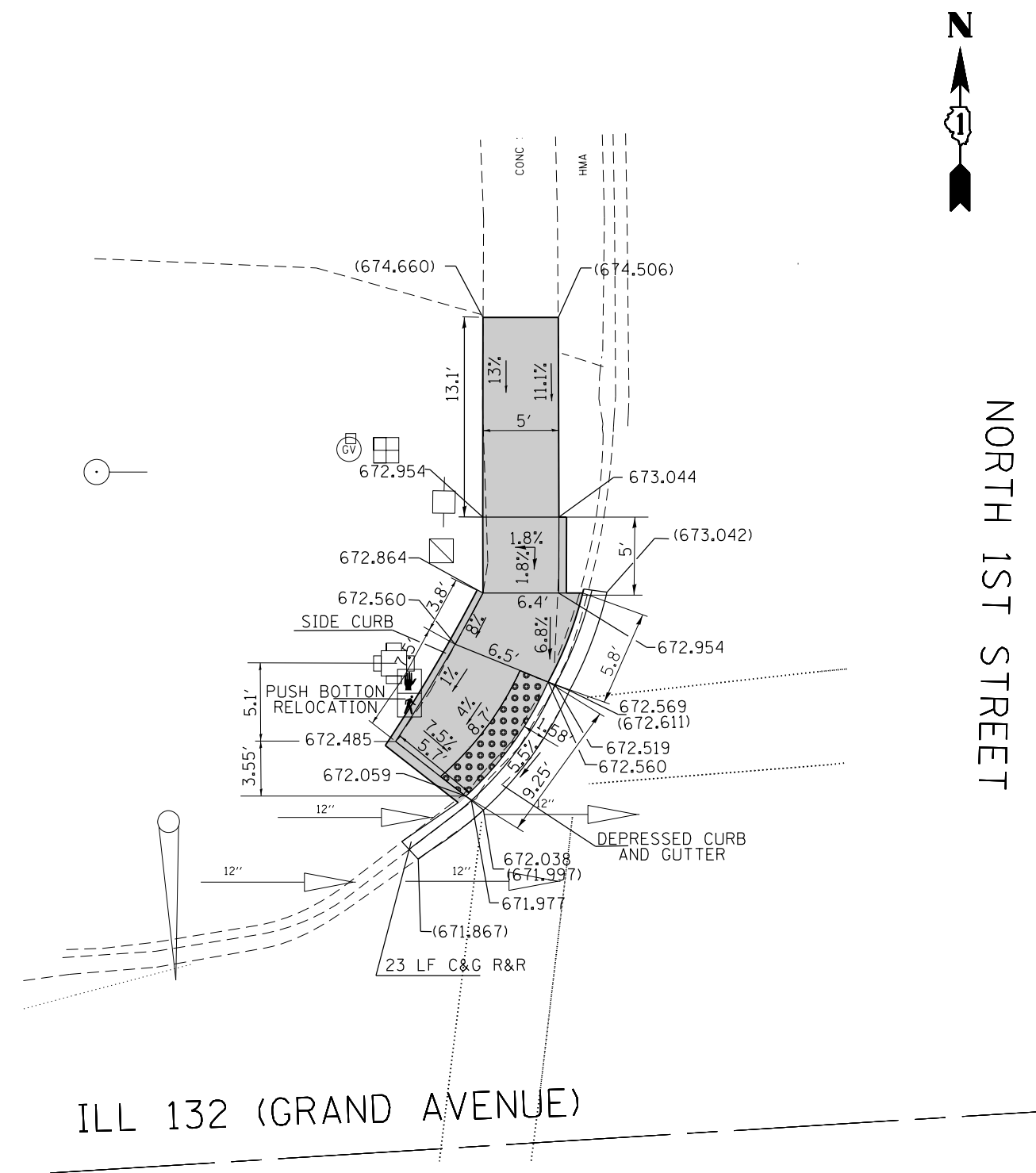
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 663.627

BENCHMARK : SOUTHEAST SQUARE AT TOP OF CATCH BASIN AT NORTHWEST CORNER AT O'PLANE RD AND GRAND AVE

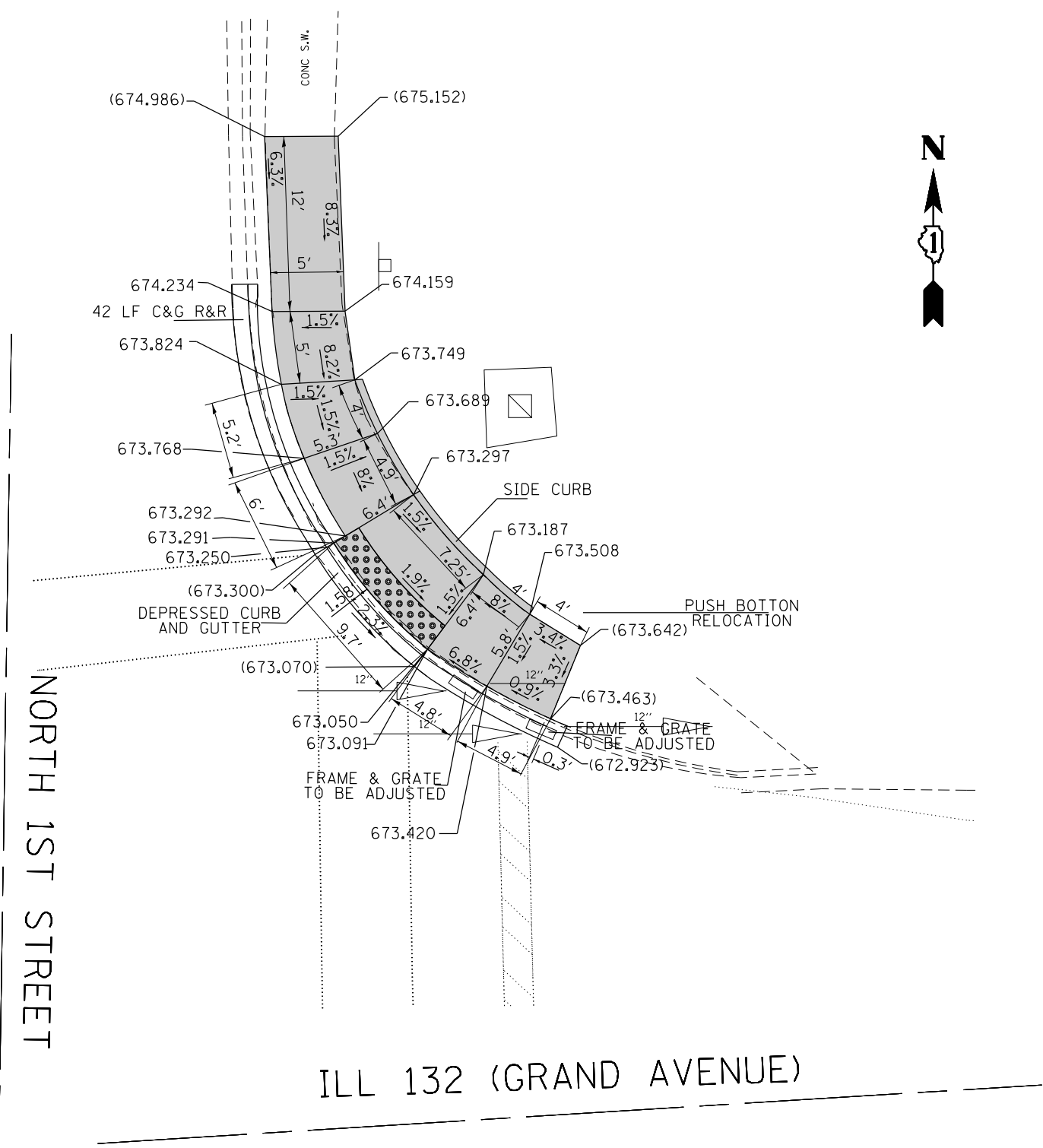
LOCATION : SOUTHEAST CORNER OF O'PLANE RD AND GRAND AVE

FILE NAME = pww\IL084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\113811\BROWNS\Design\1138116-ADA\Design	USER NAME = gorengautab	DESIGNED - --- --/--/----	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ADA RAMP DETAILS			F.A.P. RTE. = 541	SECTION = 2016-021RS	COUNTY = LAKE	TOTAL SHEETS = 57	SHEET NO. = 33
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: _____	SHEET _____	OF _____	SHEETS _____	STA. _____	TO STA. _____	CONTRACT NO. 62C74	
Default	PLOT DATE = 3/9/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								



NORTH 1ST STREET

ILL 132 (GRAND AVENUE)



NORTH 1ST STREET

ILL 132 (GRAND AVENUE)

REFERENCE BENCHMARK ELEV 669.428
 BENCHMARK : NORTHEAST SQUARE AT TOP OF CATCH BASIN AT SOUTHWEST CORNER AT FIRST ST AND GRAND AVE
 LOCATION : NORTHWEST CORNER OF NORTH FIRST ST AND GRAND AVE

LEGEND

- EXISTING LENGTH
- == PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- ▣ DETECTABLE WARNINGS
- ▤ SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 669.428
 BENCHMARK : NORTHEAST SQUARE AT TOP OF CATCH BASIN AT SOUTHWEST CORNER AT FIRST ST AND GRAND AVE
 LOCATION : NORTHEAST CORNER OF NORTH FIRST ST AND GRAND AVE

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISD -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISD -
	PLOT DATE = 3/9/2018	DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 IL ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL ROUTE 131)**

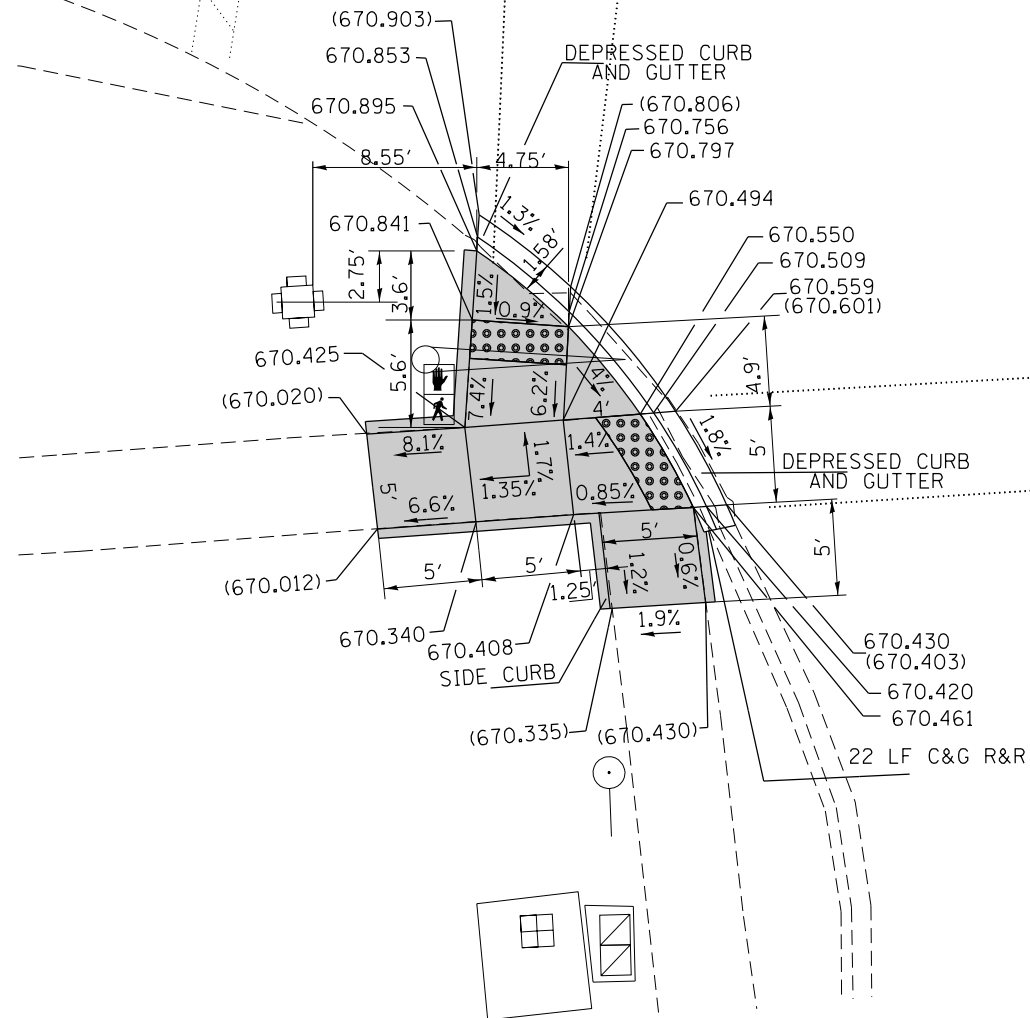
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	34
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

ILL 132 (GRAND AVENUE)



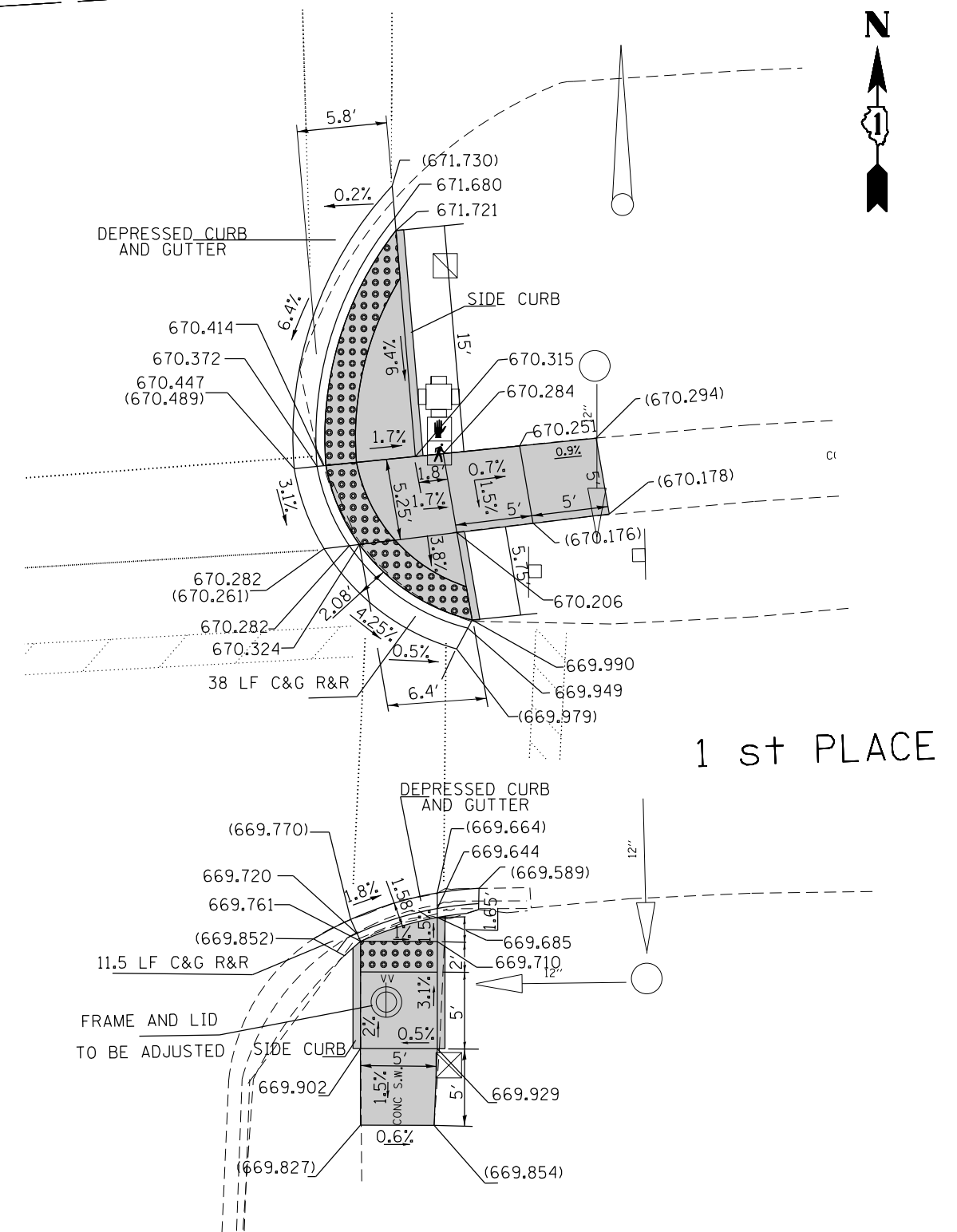
NORTH 1ST STREET



ILL 132 (GRAND AVENUE)



NORTH 1ST STREET



REFERENCE BENCHMARK ELEV 669.428

BENCHMARK : NORTHEAST SQUARE AT TOP OF CATCH BASIN AT SOUTHWEST CORNER AT FIRST ST AND GRAND AVE

LOCATION : SOUTHWEST CORNER OF NORTH FIRST ST AND GRAND AVE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD
- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE

REFERENCE BENCHMARK ELEV 669.428

BENCHMARK : NORTHEAST SQUARE AT TOP OF CATCH BASIN AT SOUTHWEST CORNER AT FIRST ST AND GRAND AVE

LOCATION : SOUTHWEST CORNER OF NORTH FIRST ST AND GRAND AVE

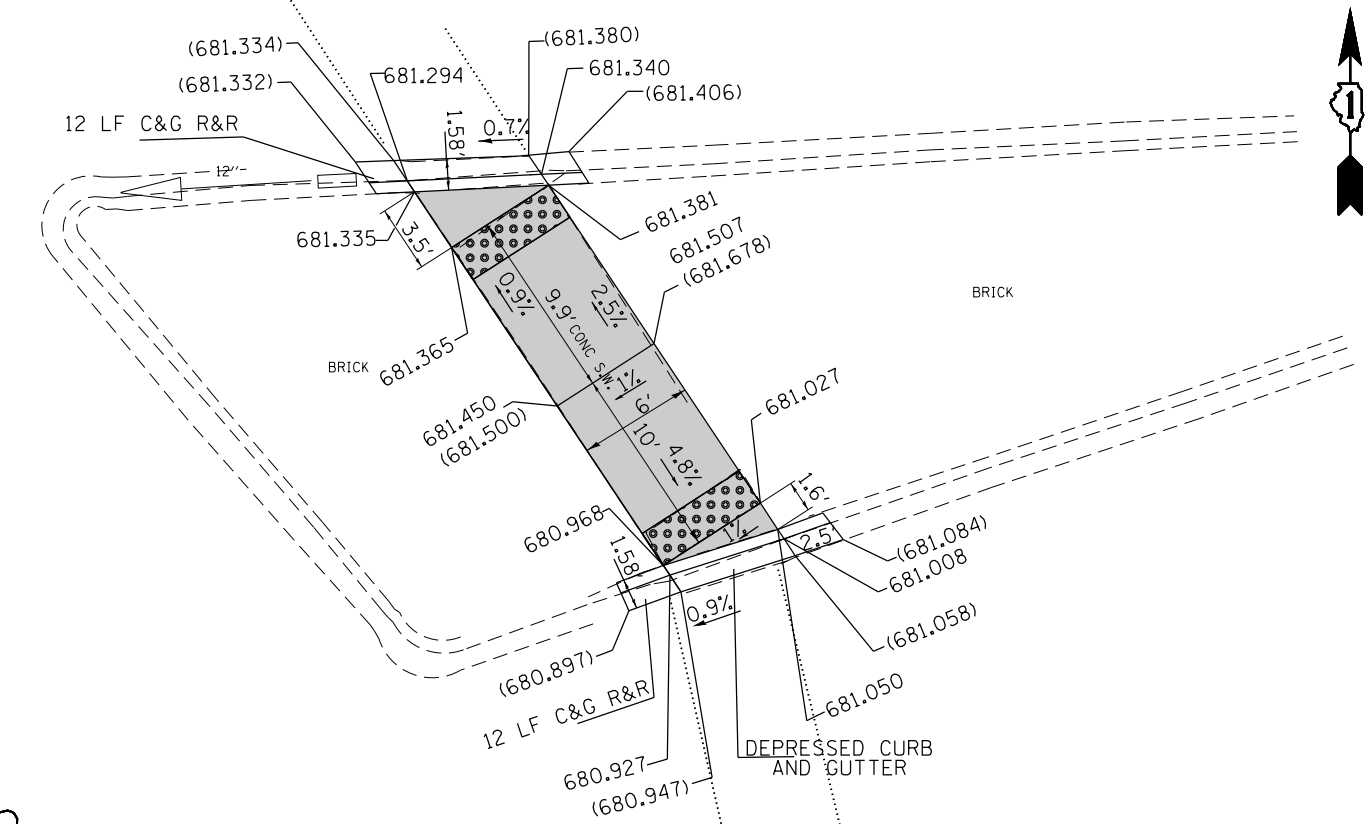
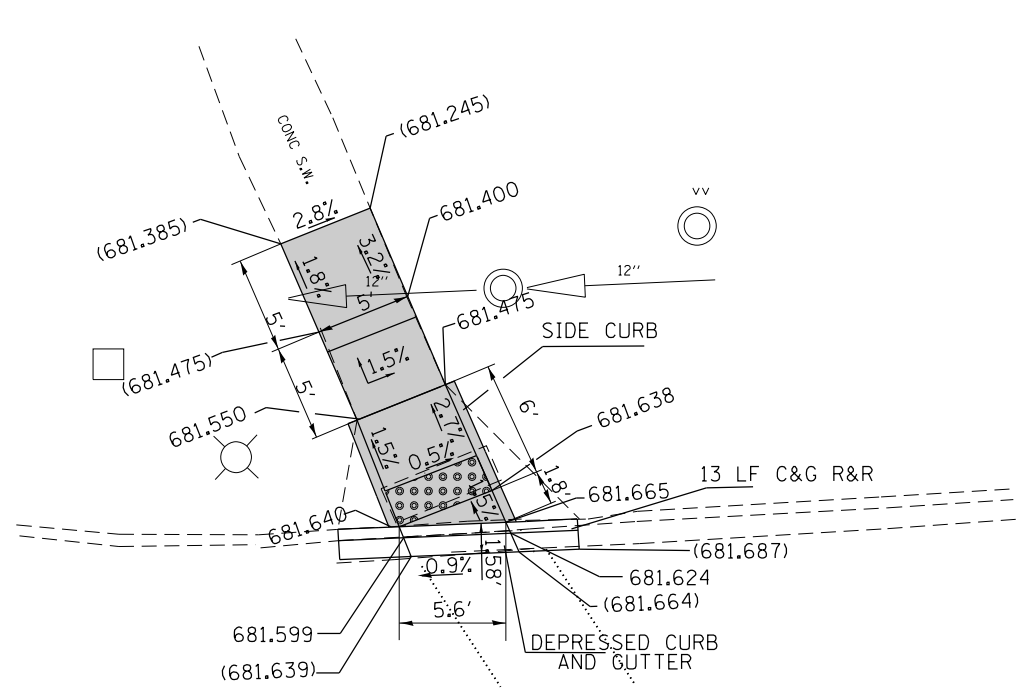
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Default	PLOT DATE = 3/9/2018	DATE -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	35
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



OLD GRAND AVENUE

ILL 132 (GRAND AVENUE)

OLD GRAND AVENUE

ILL 132 (GRAND AVENUE)

REFERENCE BENCHMARK ELEV 684.859
 BENCHMARK : SOUTHEAST BOLT AT FIRE HYDRANT AT NORTH AT GREENLEAF ST AND GRAND AVE
 LOCATION : NORTHEAST CORNER OF OLD GRAND AVE AND GRAND AVE

LEGEND

EXISTING LENGTH

PROPOSED SIDE CURB

EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 684.859
 BENCHMARK : SOUTHEAST BOLT AT FIRE HYDRANT AT NORTH AT GREENLEAF ST AND GRAND AVE
 LOCATION : NORTHEAST CORNER OF OLD GRAND AVE AND GRAND AVE SOUTH OF NORTH TURNING LANE

FILE NAME :	USER NAME = gorengautab	DESIGNED -	REVISD -
pw\ill084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\138116\138116-ADA\Design\138116-ADA-Design.dgn		REVISD -	REVISD -
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	PLOT DATE = 3/9/2018	DATE -	REVISD -

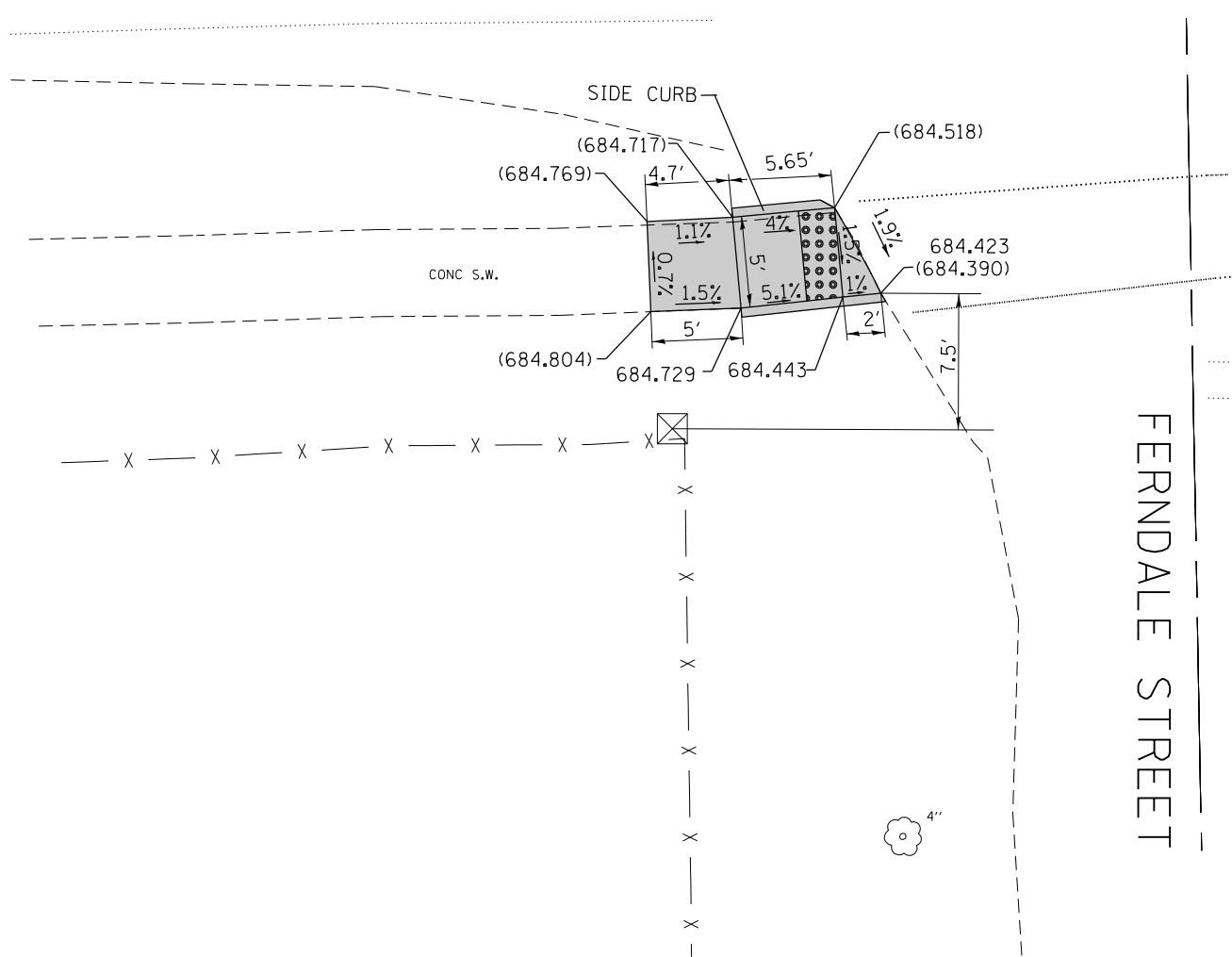
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
 IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

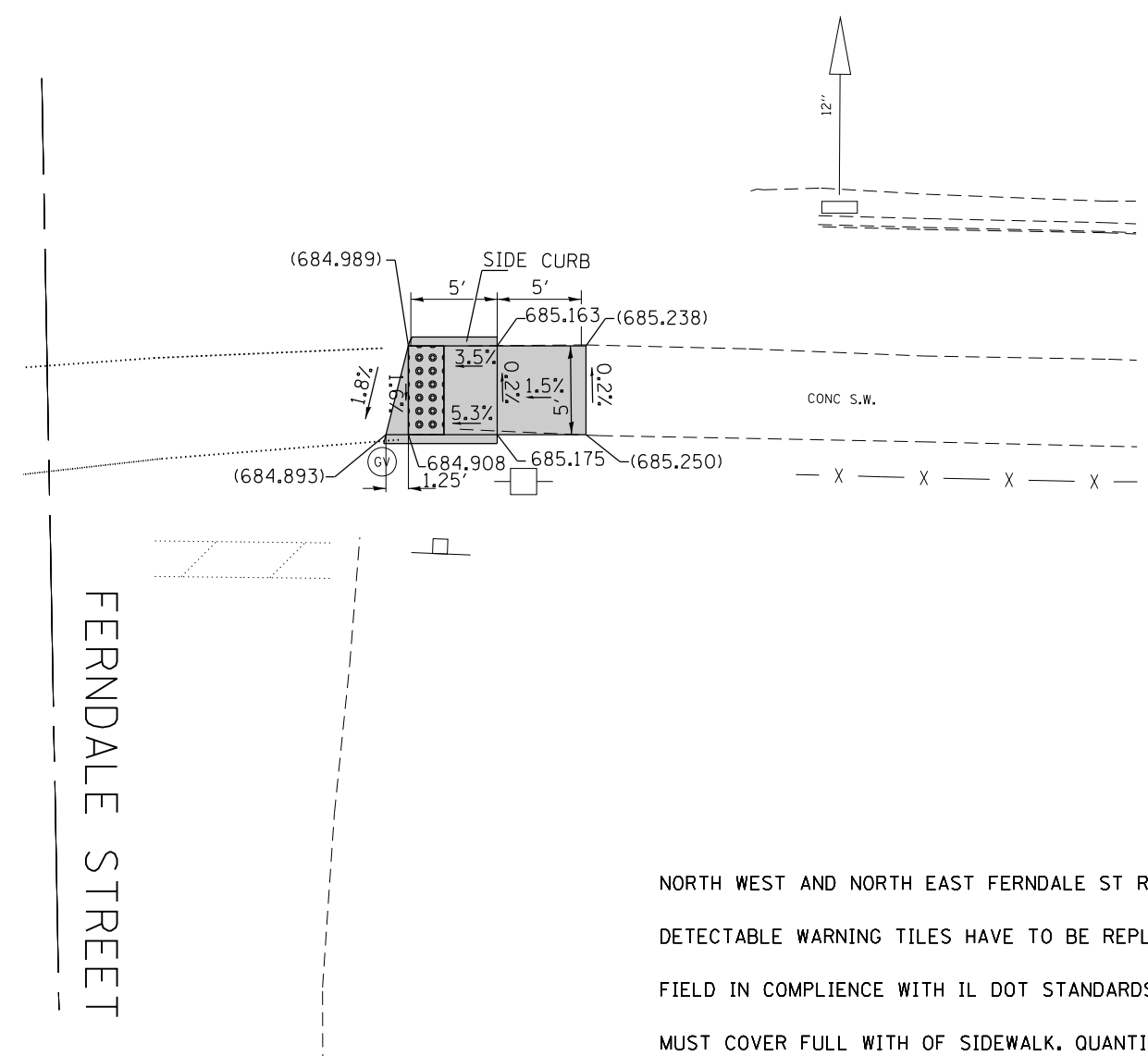
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	36
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

ILL 132 (GRAND AVENUE)



ILL 132 (GRAND AVENUE)



NORTH WEST AND NORTH EAST FERNDAL ST RAMPS :
 DETECTABLE WARNING TILES HAVE TO BE REPLACED IN
 FIELD IN COMPLIENCE WITH IL DOT STANDARDS. THE TILE
 MUST COVER FULL WITH OF SIDEWALK. QUANTITIES
 ARE INCLUDED.

REFERENCE BENCHMARK ELEV 688.254
 BENCHMARK : POLE WITH SPIKE AT NORTHWEST CORNER OF FERNDAL ST
 AND GRAND AVE
 LOCATION : SOUTHWEST CORNER OF FERNDAL ST AND GRAND AVE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
- EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE

REFERENCE BENCHMARK ELEV 688.254
 BENCHMARK : POLE WITH SPIKE AT NORTHWEST CORNER OF FERNDAL ST
 AND GRAND AVE
 LOCATION : SOUTHWEST CORNER OF FERNDAL ST AND GRAND AVE

FILE NAME :	USER NAME = gorengautab	DESIGNED -	REVISED -
pw\ill084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\138116\138116-ADA\Design\138116-ADA-Def\gdn		REVISIONS	
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/9/2018	DATE -	REVISED -

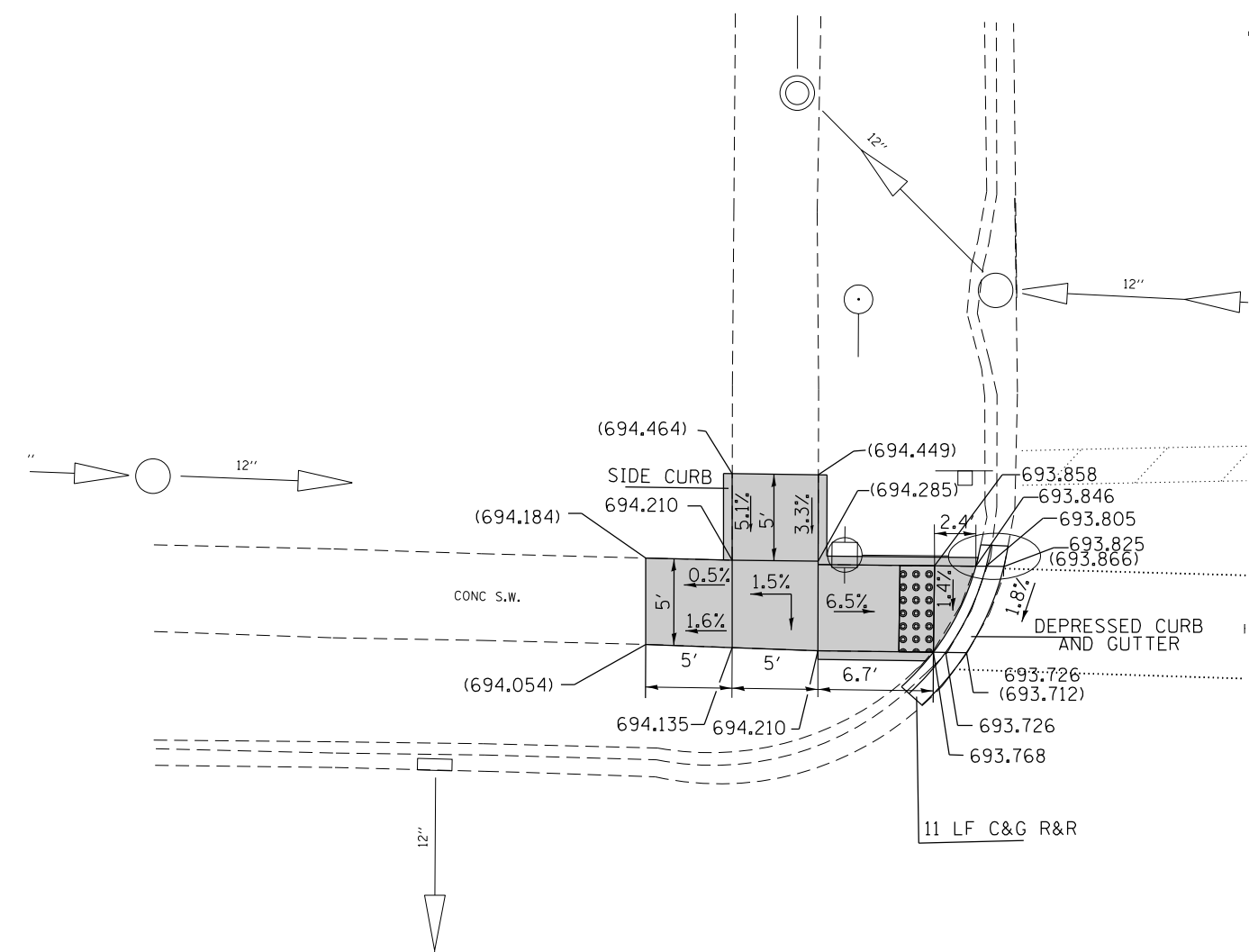
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
 IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	38
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				

PINE GROVE AVENUE



ILL 132 (GRAND AVENUE)

REFERENCE BENCHMARK ELEV 698.096
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTHEAST CORNER AT PINE GROVE AVE AND GRAND AVE
 LOCATION : NORTHWEST CORNER OF PINE GROVE AVE AND GRAND AVE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- EXISTING LENGTH

FILE NAME :	USER NAME = gorengautab	DESIGNED - --- --/---/----	REVISED -
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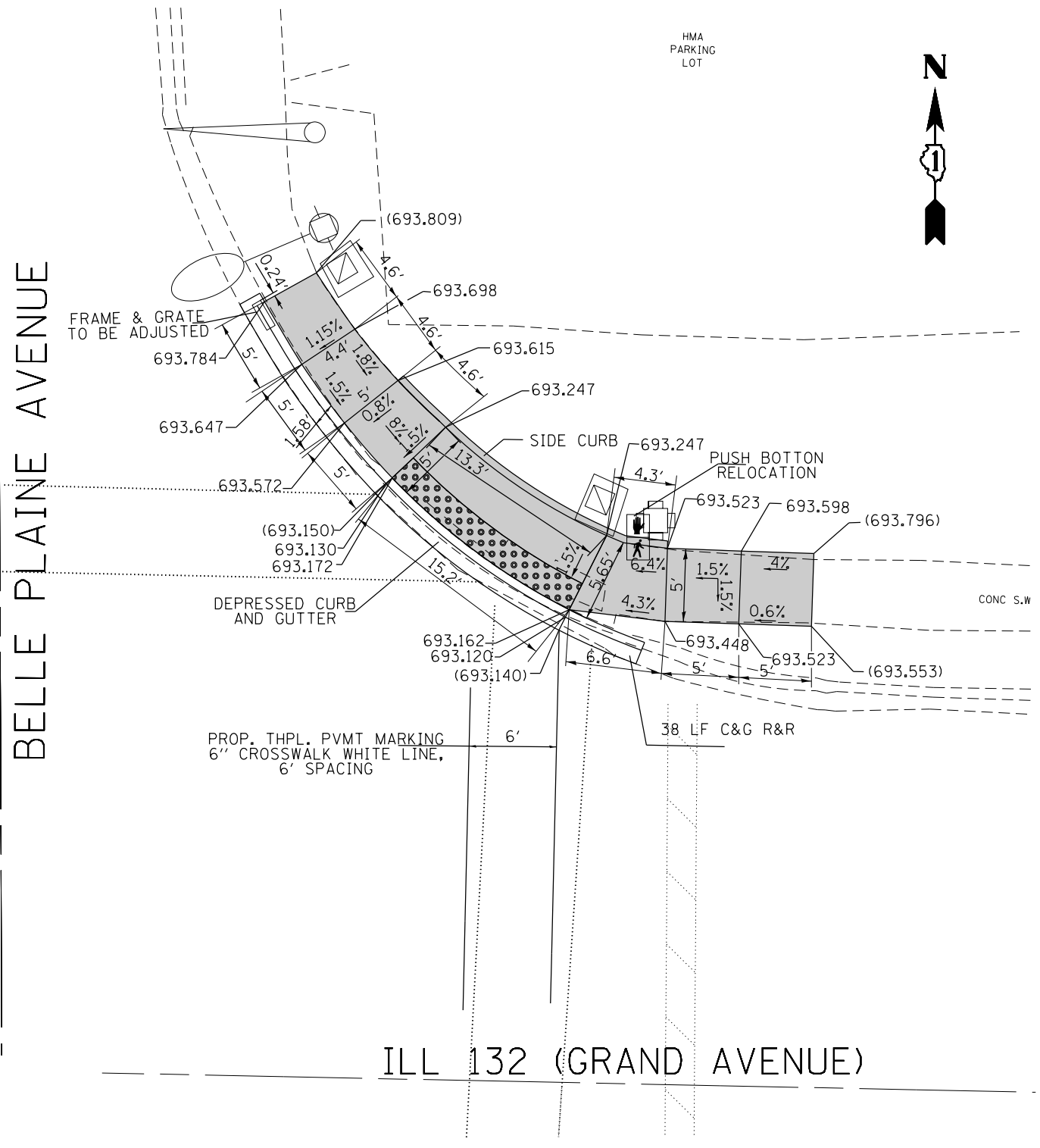
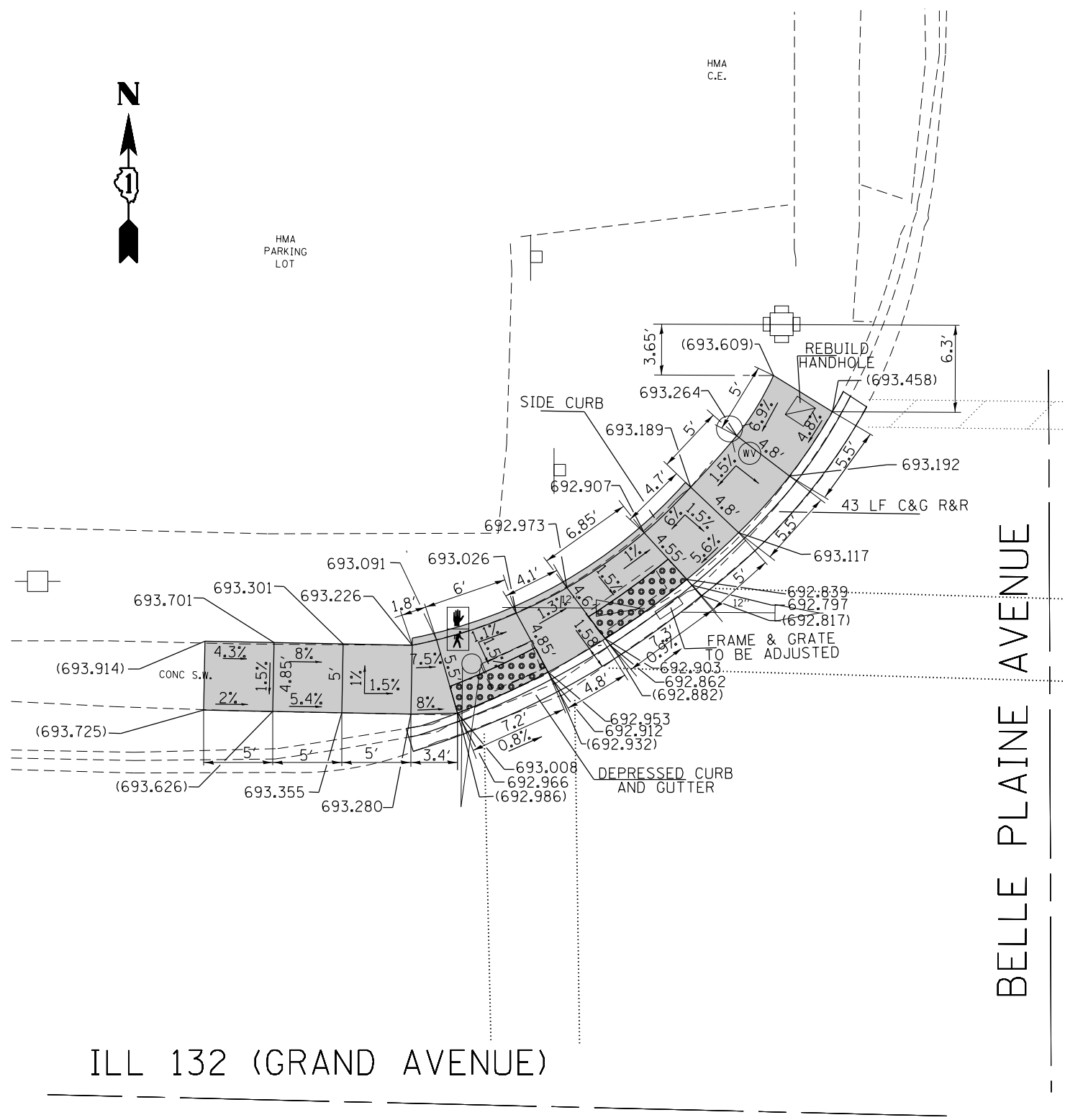
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	39
CONTRACT NO. 62C74				

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



ILL 132 (GRAND AVENUE)

ILL 132 (GRAND AVENUE)

REFERENCE BENCHMARK ELEV 695.964
 BENCHMARK : NORTHEAST BOLT AT FIRE HYDRANT AT NORTHWEST CORNER AT BELLE PLAINE AVE AND GRAND AVE
 LOCATION : NORTHWEST CORNER OF BELLE PLAINE AVE AND GRAND AVE

LEGEND

- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 695.964
 BENCHMARK : NORTHEAST BOLT AT FIRE HYDRANT AT NORTHWEST CORNER AT BELLE PLAINE AVE AND GRAND AVE
 LOCATION : NORTHEAST CORNER OF BELLE PLAINE AVE AND GRAND AVE

FILE NAME :	USER NAME = gorengautab	DESIGNED -	REVISED -
pw\ill084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\138116\138116-ADA\Design\		DATE -	REVISED -
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	PLOT DATE = 3/9/2018	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
 IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

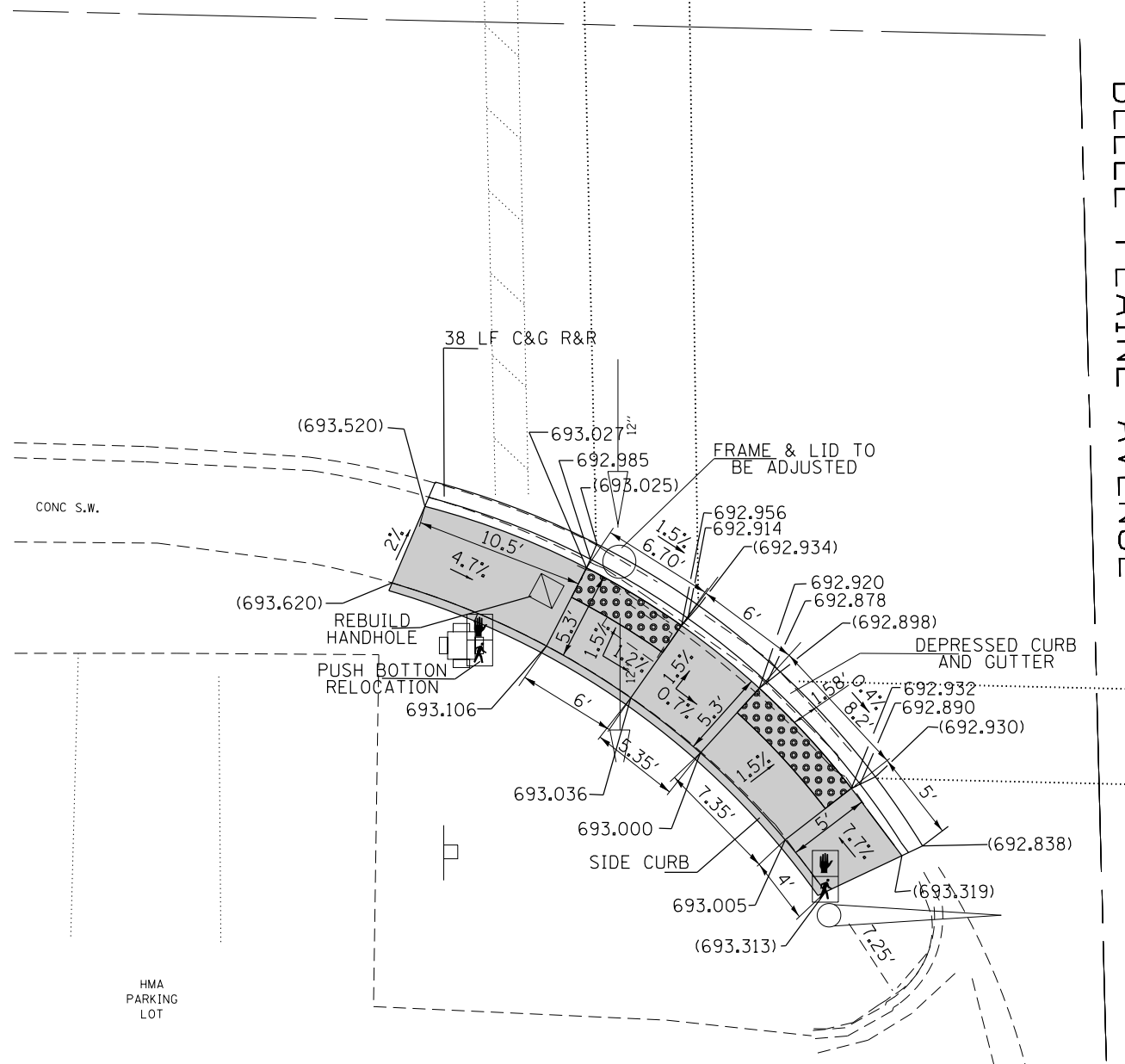
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	40
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



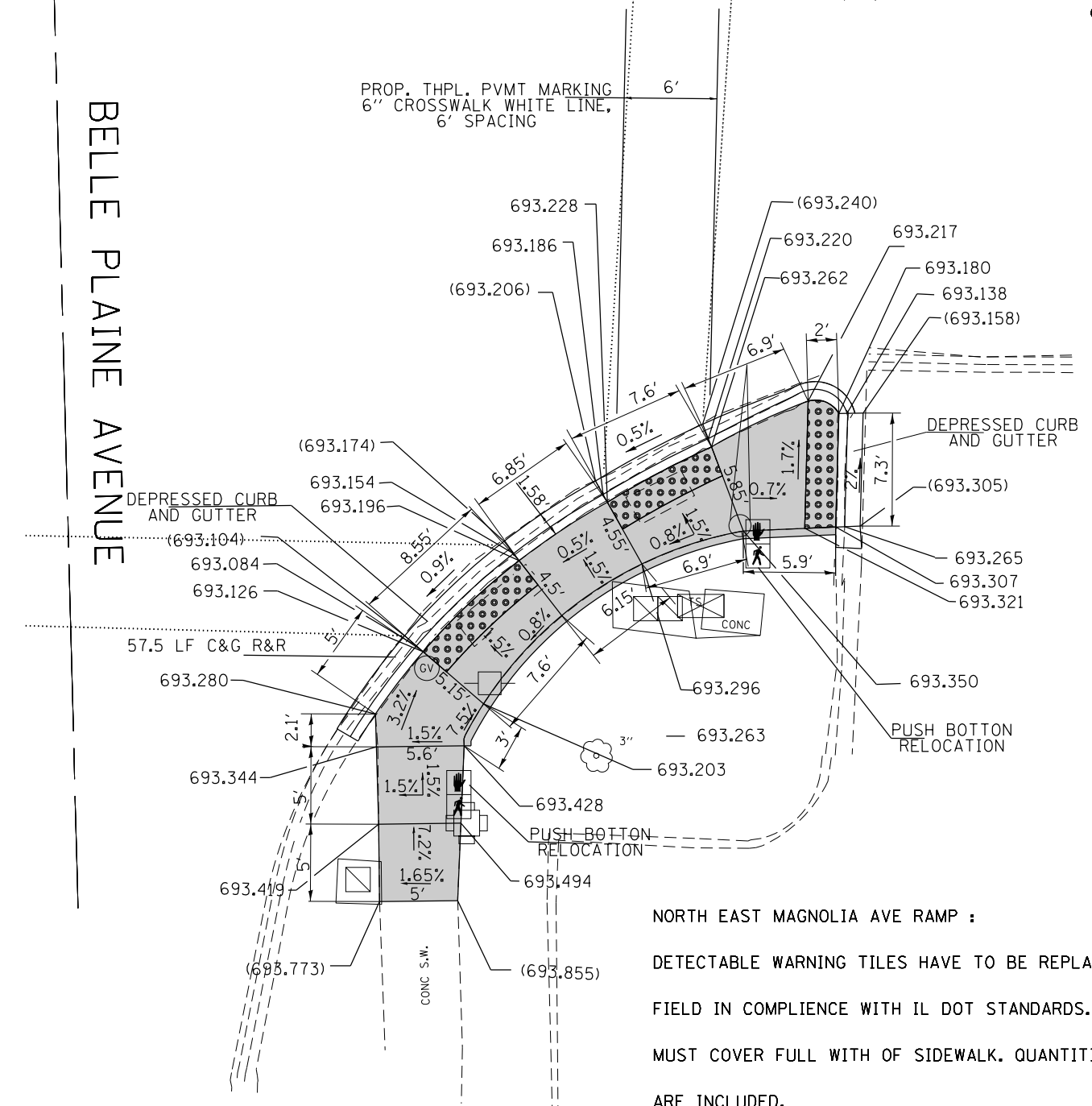
ILL 132 (GRAND AVENUE)

BELLE PLAINE AVENUE



ILL 132 (GRAND AVENUE)

BELLE PLAINE AVENUE



NORTH EAST MAGNOLIA AVE RAMP :
 DETECTABLE WARNING TILES HAVE TO BE REPLACED IN
 FIELD IN COMPLIANCE WITH IL DOT STANDARDS. THE TILE
 MUST COVER FULL WITH OF SIDEWALK. QUANTITIES
 ARE INCLUDED.

REFERENCE BENCHMARK ELEV 695.964

BENCHMARK : NORTHEAST BOLT AT FIRE HYDRANT AT NORTHWEST CORNER AT BELLE PLAINE AVE AND GRAND AVE

LOCATION : SOUTHWEST CORNER OF BELLE PLAINE AVE AND GRAND AVE

LEGEND

EXISTING LENGTH

PROPOSED SIDE CURB

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 695.964

BENCHMARK : NORTHEAST BOLT AT FIRE HYDRANT AT NORTHWEST CORNER AT BELLE PLAINE AVE AND GRAND AVE

LOCATION : SOUTHWEST CORNER OF BELLE PLAINE AVE AND GRAND AVE

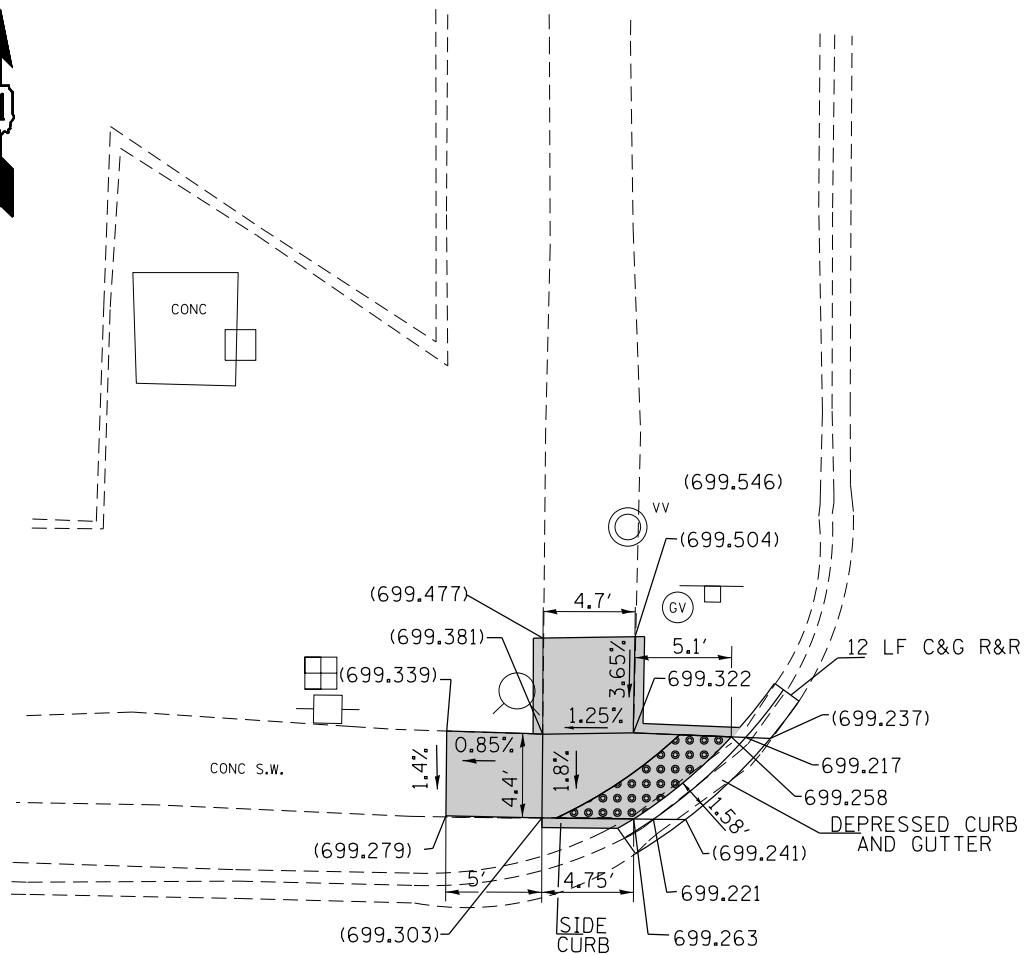
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISD -
	PLOT DATE = 3/9/2018	DATE -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)

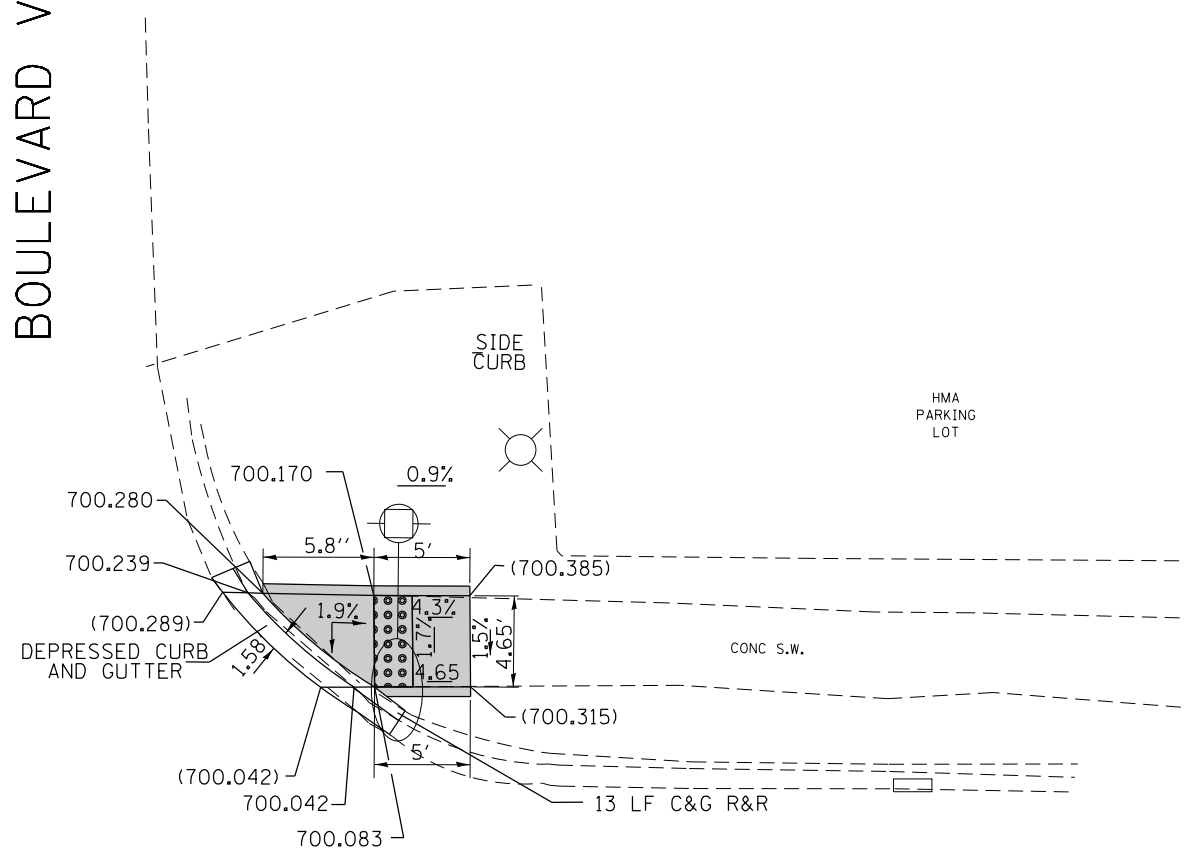
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	41
CONTRACT NO. 62C74				
ILLINOIS FED. AID PROJECT				



IL. ROUTE 132 (GRAND AVENUE)

BOULEVARD VIEW STREET



IL. ROUTE 132 (GRAND AVENUE)

BOULEVARD VIEW STREET

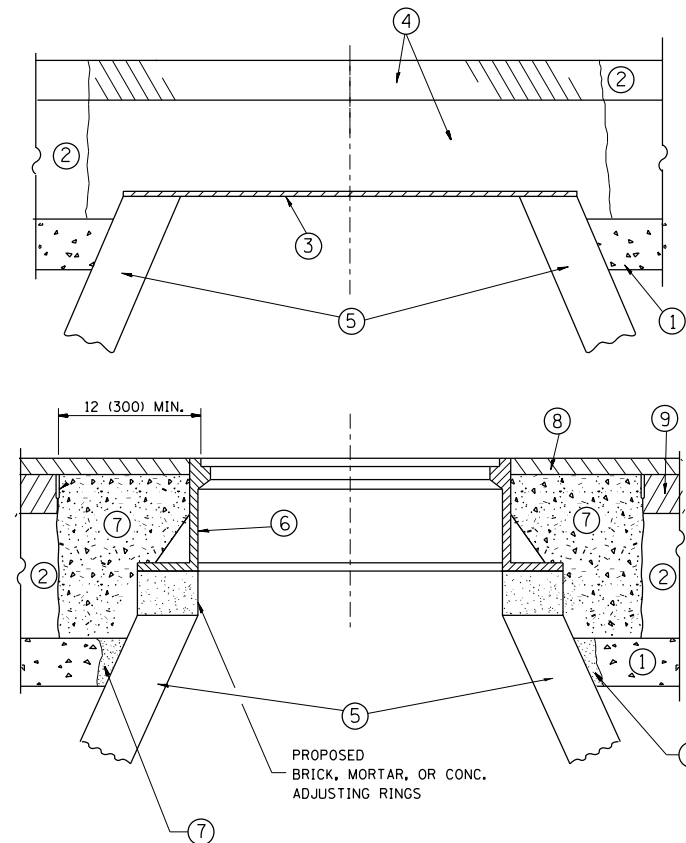
REFERENCE BENCHMARK ELEV 702.000
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTHWEST CORNER AT BOULEVARD VIEW ST AND GRAND AVE
 LOCATION : NORTHWEST CORNER OF BOULEVARD VIEW ST AND GRAND AVE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD
- EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE

REFERENCE BENCHMARK ELEV 702.000
 BENCHMARK : TOP OF FIRE HYDRANT AT NORTHWEST CORNER AT BOULEVARD VIEW ST AND GRAND AVE
 LOCATION : NORTHEAST CORNER OF BOULEVARD VIEW ST AND GRAND AVE

FILE NAME = pww\IL084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\013811\BRW\Notes\Design\0138116-ADA\Def\gougn	USER NAME = gorengautab	DESIGNED - --- --/--/----	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ADA RAMP DETAILS IL. ROUTE 132 (W. OF TRI-STATE TOLLWAY TO IL. ROUTE 131)			F.A.P. RTE. 541	SECTION	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 42
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 62C74 ILLINOIS FED. AID PROJECT
Default	PLOT DATE = 3/9/2018	DATE -	REVISED -									



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
- 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

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

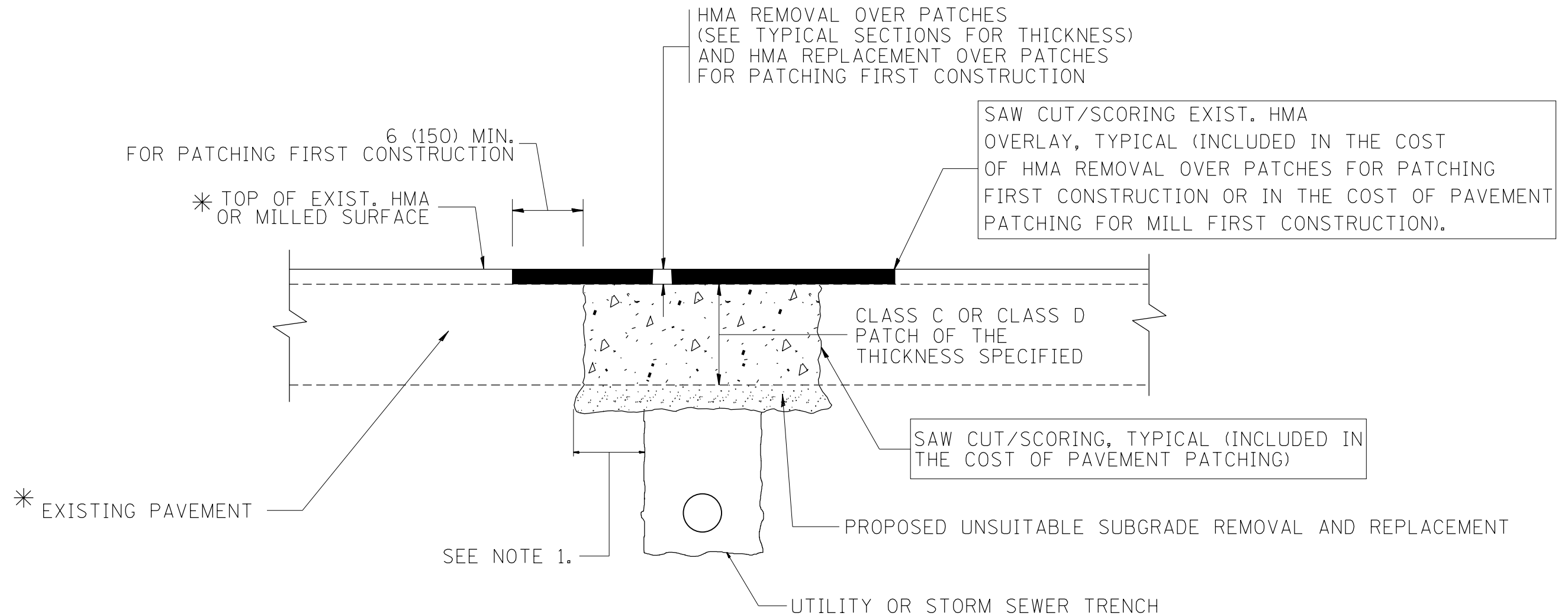
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	PLOT DATE = 2/1/2018	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	43
BD600-03 (BD-8)		CONTRACT NO. 62C74		
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)

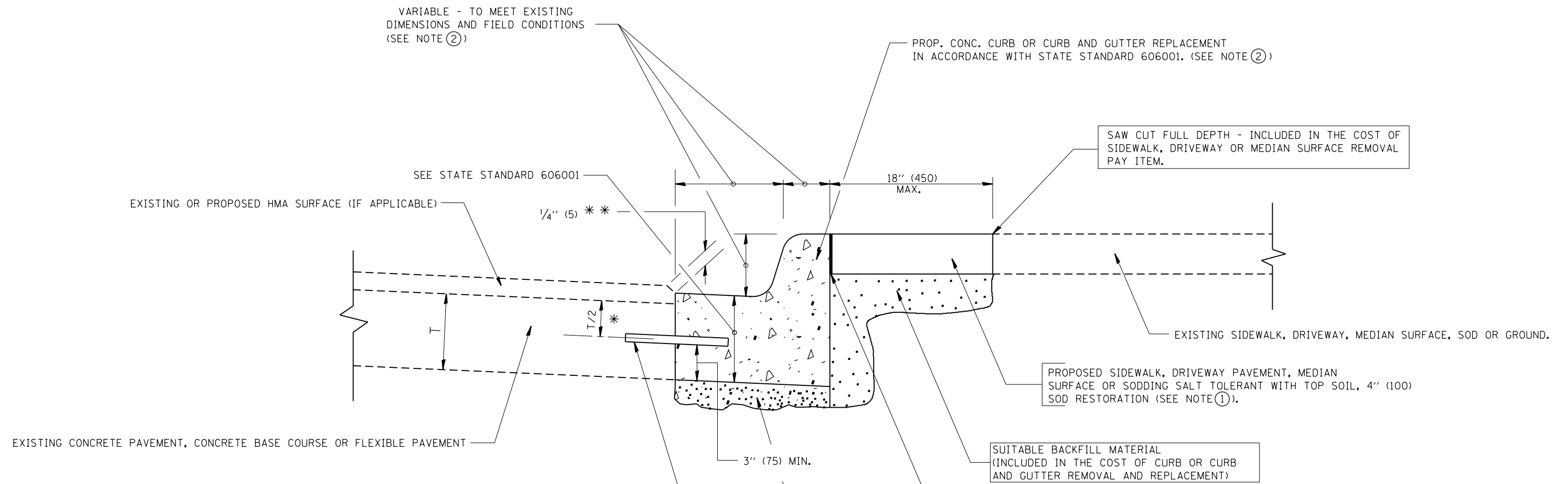
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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 =	USER NAME = gorengautob	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 01-01-07					541	2016-021RS	LAKE	57	44
	PLOT DATE = 2/1/2018	DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO. 62C74					
			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 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.

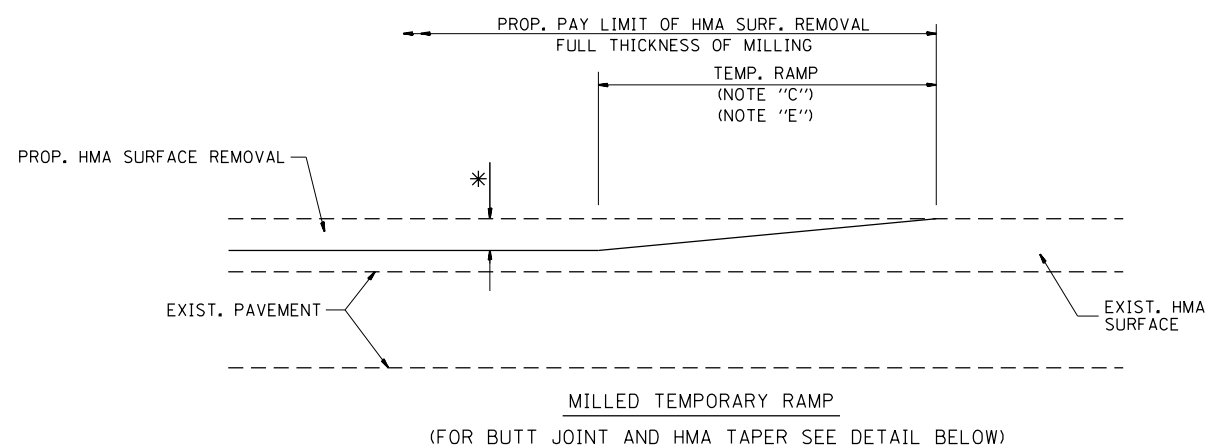
⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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".

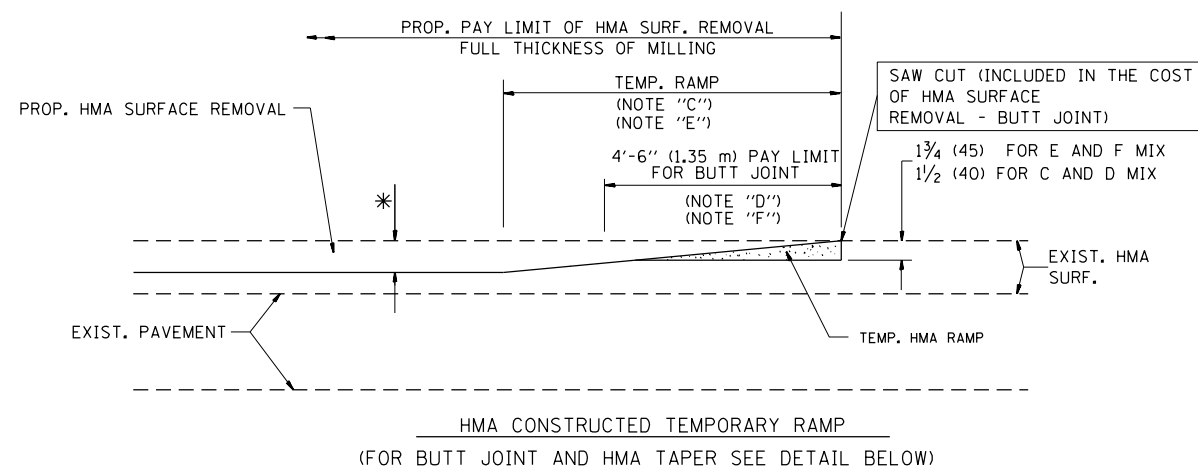
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = gorengautob	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.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn		REVISOR - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			541	2016-021RS	LAKE	57	45
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISOR - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 62C74		
PLOT DATE = 2/1/2018	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

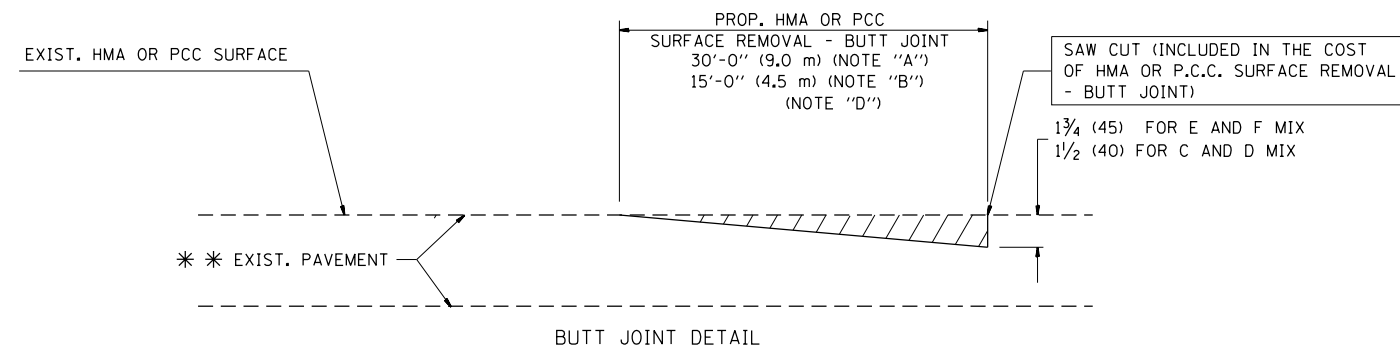


OPTION 1

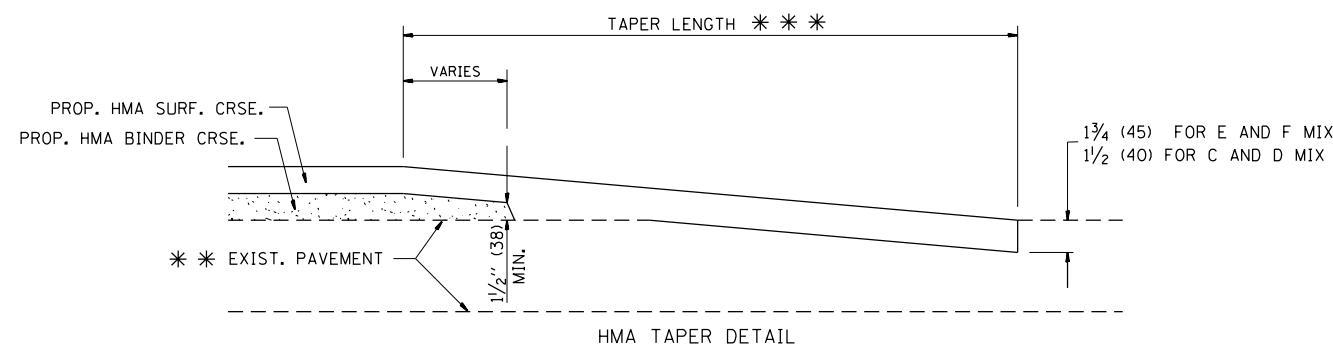


OPTION 2

TYPICAL TEMPORARY RAMP



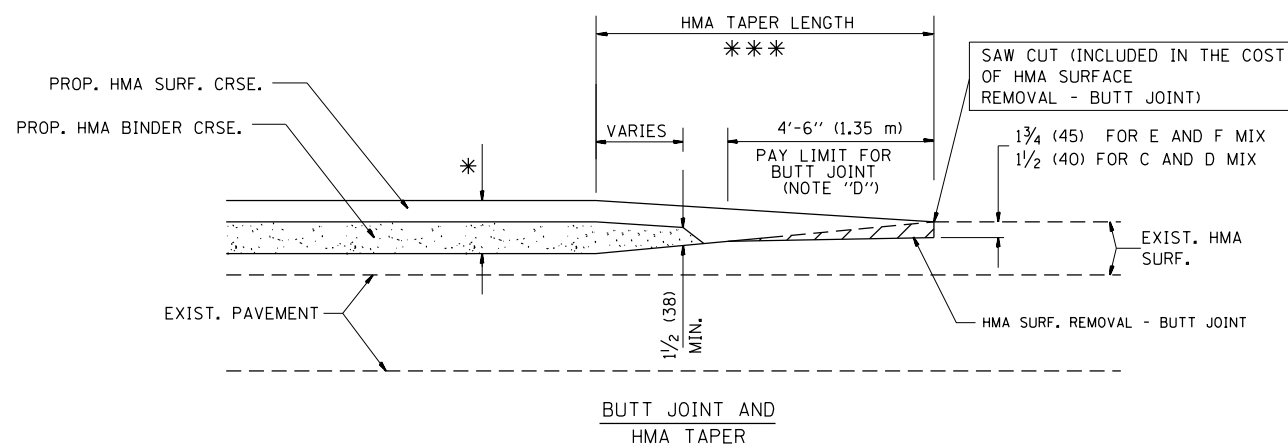
BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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.

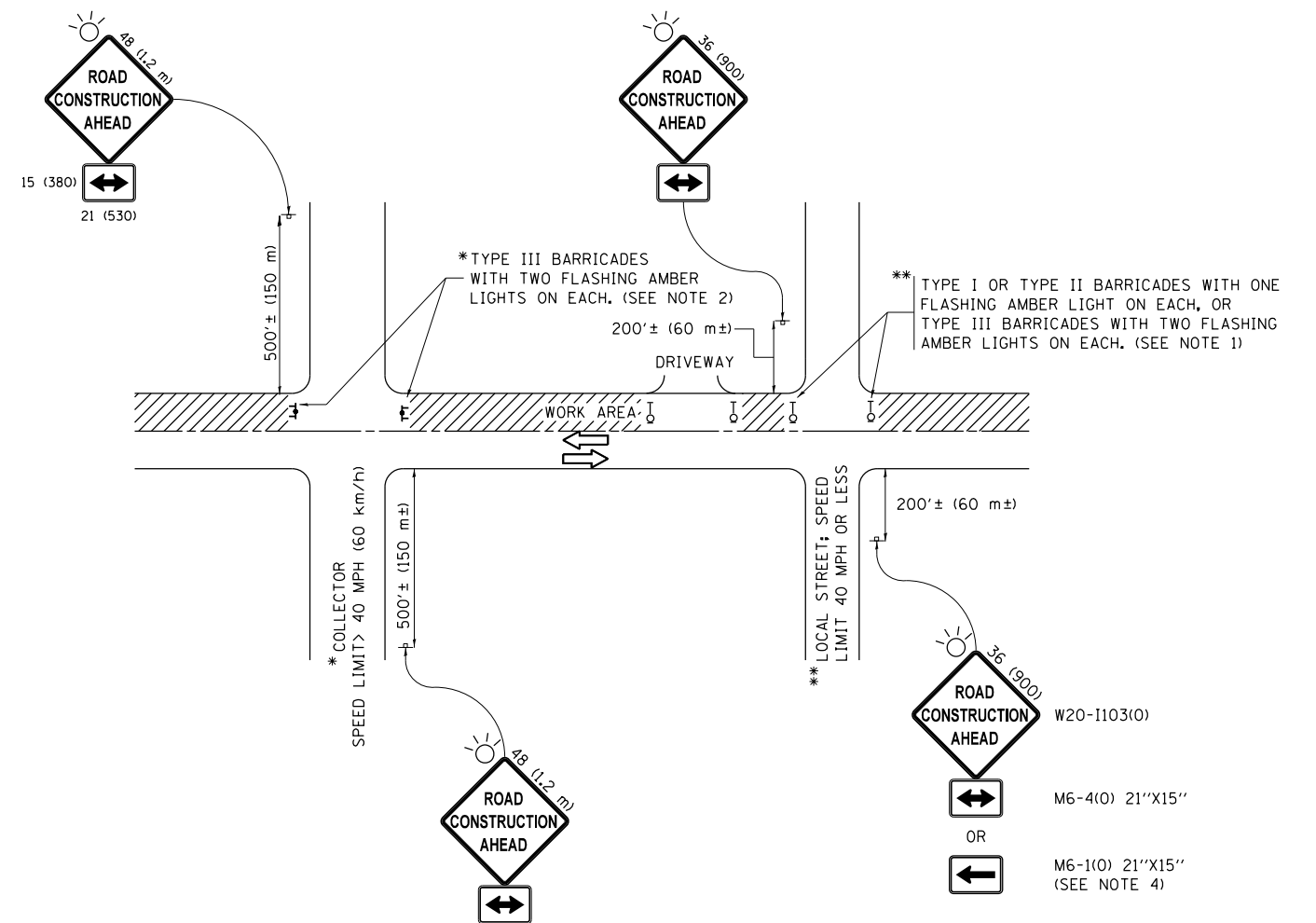
FILE NAME =	USER NAME = gorengautob	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - A. ABBAS 03-21-97
		DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01
			REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021R5	LAKE	57	46
BD400-05 BD32		CONTRACT NO. 62C74		
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.

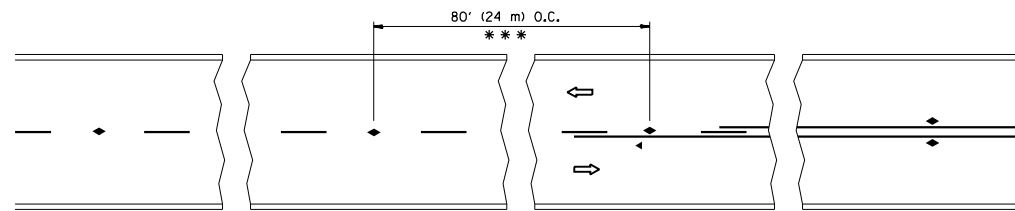
FILE NAME =	USER NAME = gorengautab	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn			REVISED - T. RAMMACHER 01-06-00
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	PLOT DATE = 2/1/2018	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

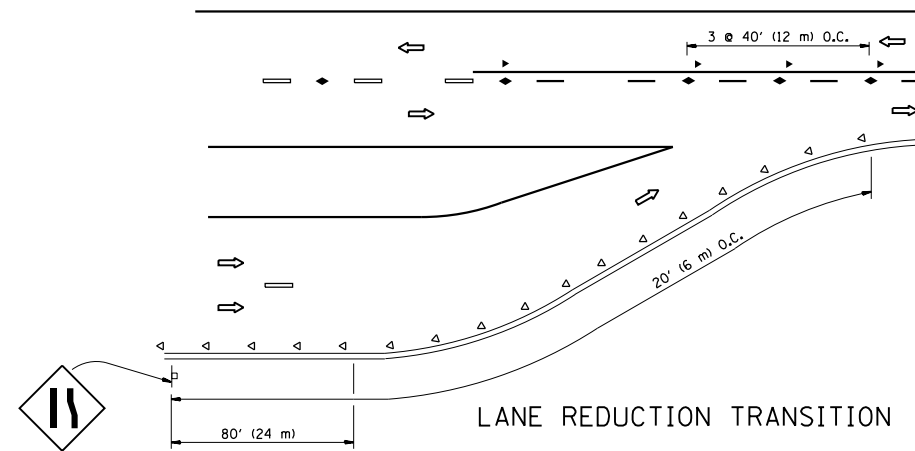
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021R5	LAKE	57	47
TC-10			CONTRACT NO. 62C74	
ILLINOIS FED. AID PROJECT				

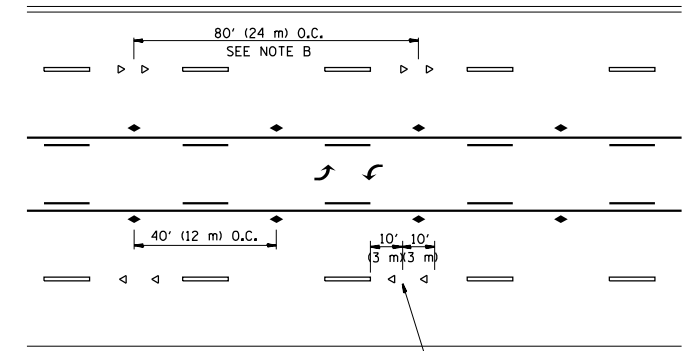


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

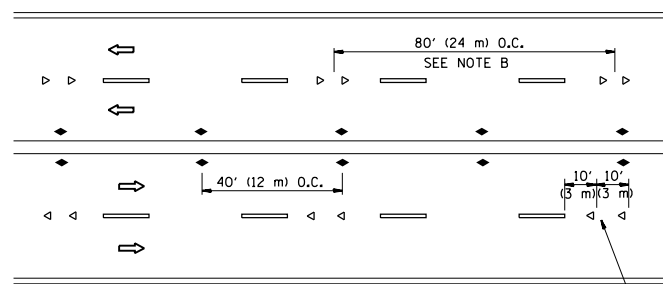
TWO-LANE/TWO-WAY



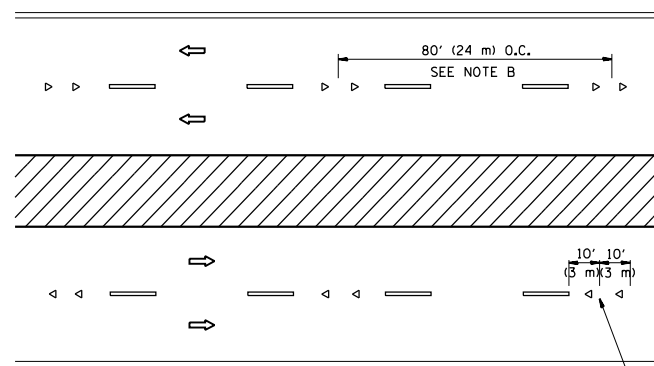
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

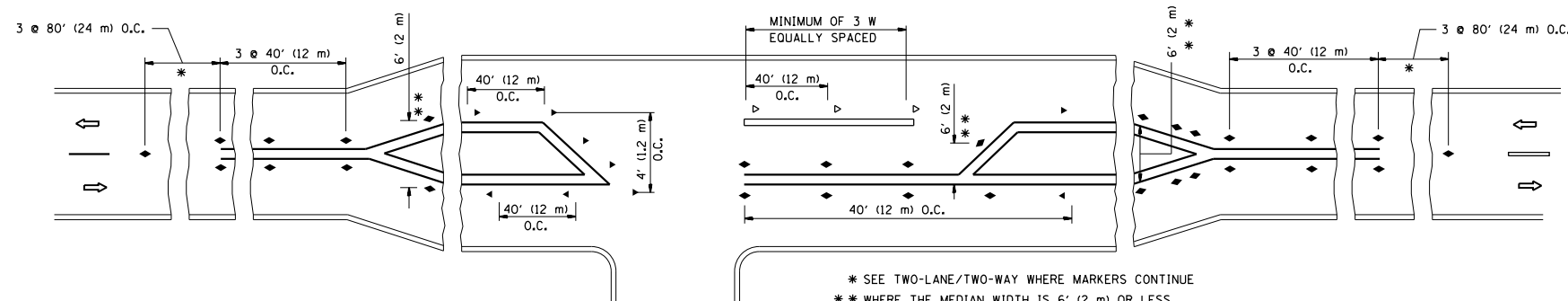
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

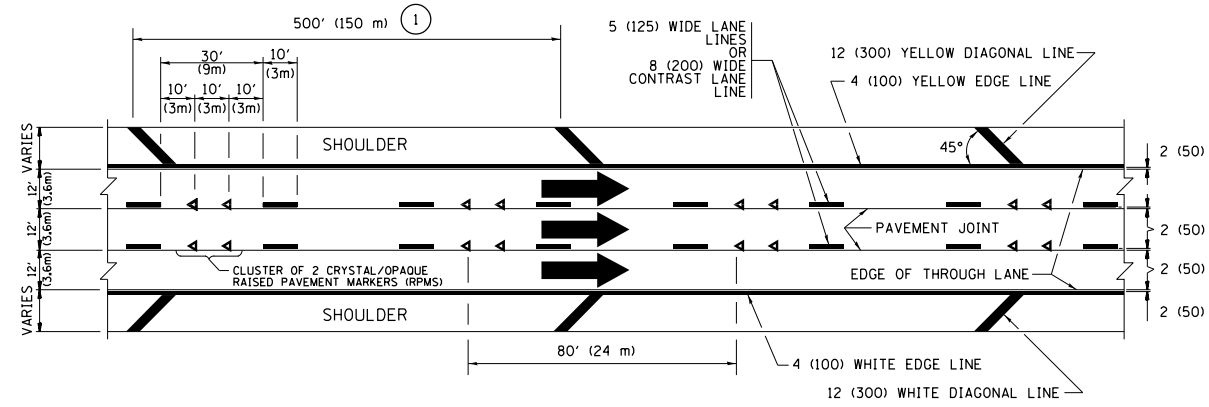
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gorengautob	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
pw:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99
		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

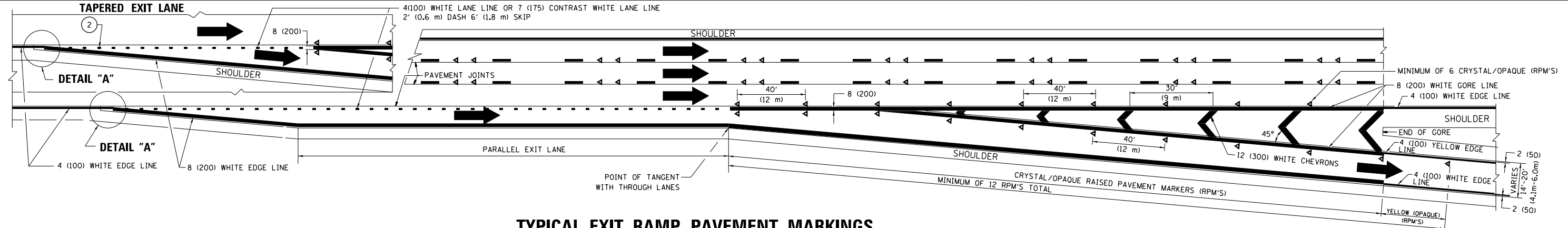
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-02IRS	LAKE	57	48
TC-11		CONTRACT NO. 62C74		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



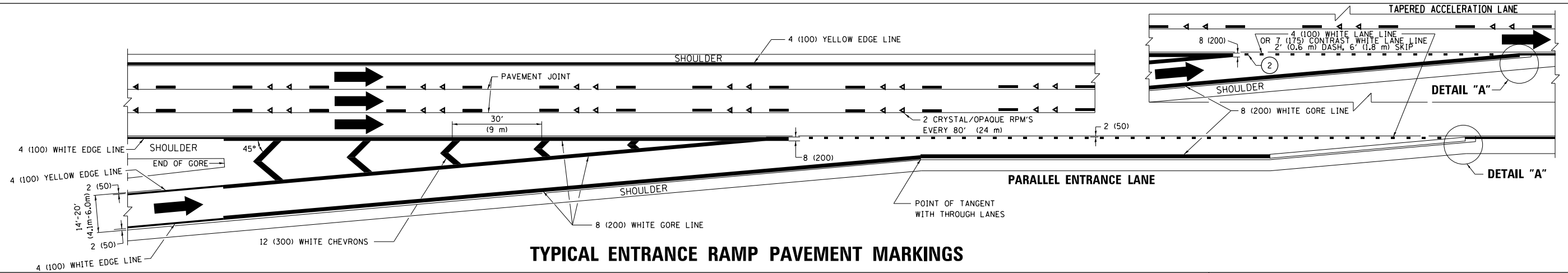
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

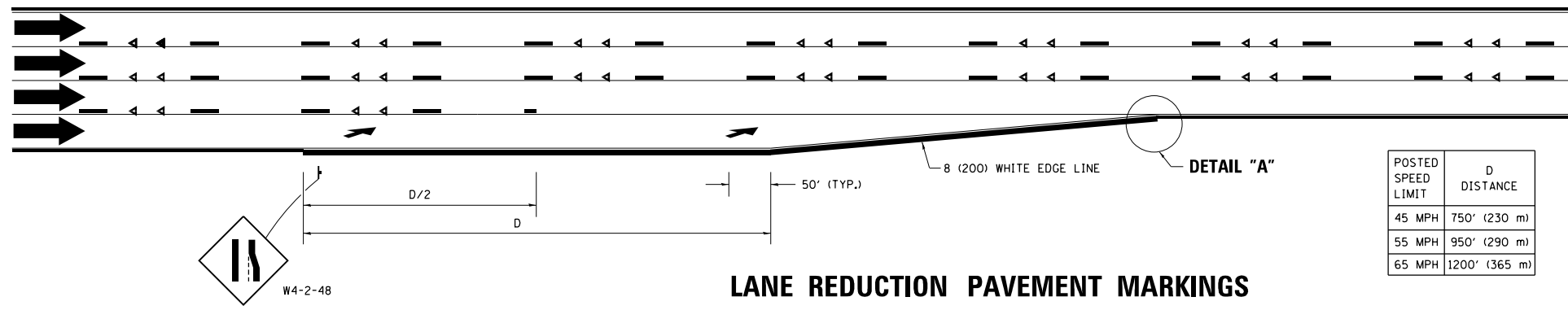
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



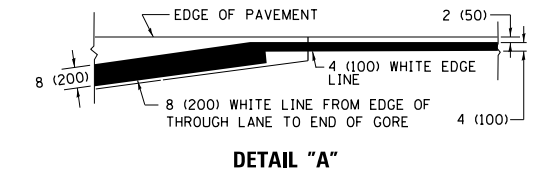
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

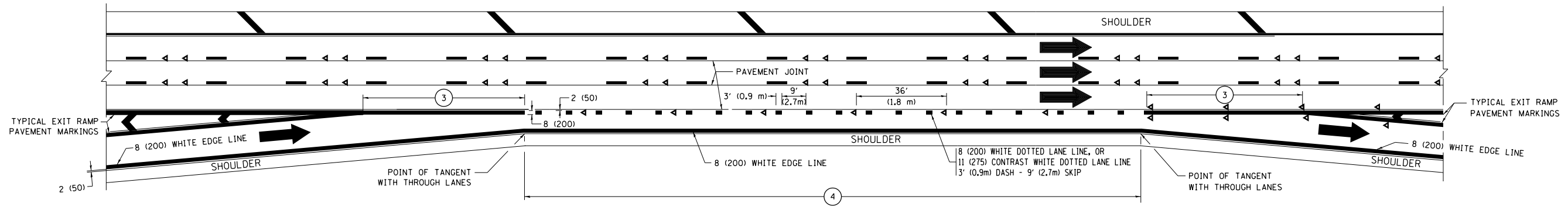


LANE REDUCTION PAVEMENT MARKINGS

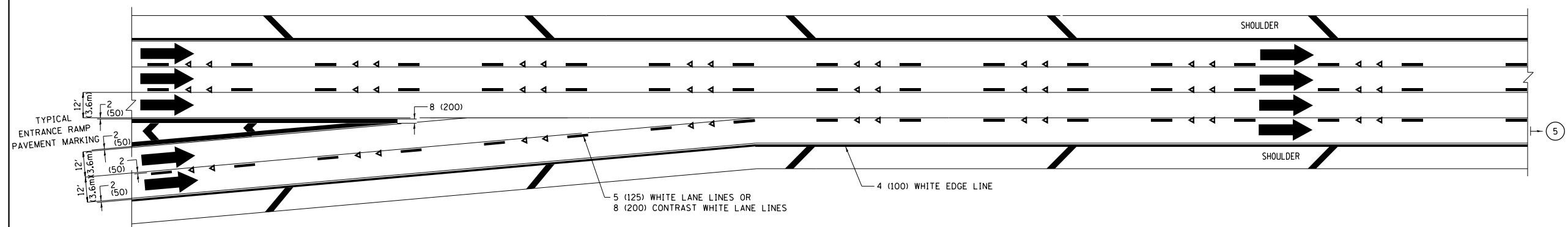


- NOTES:**
- 1 THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - 2 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

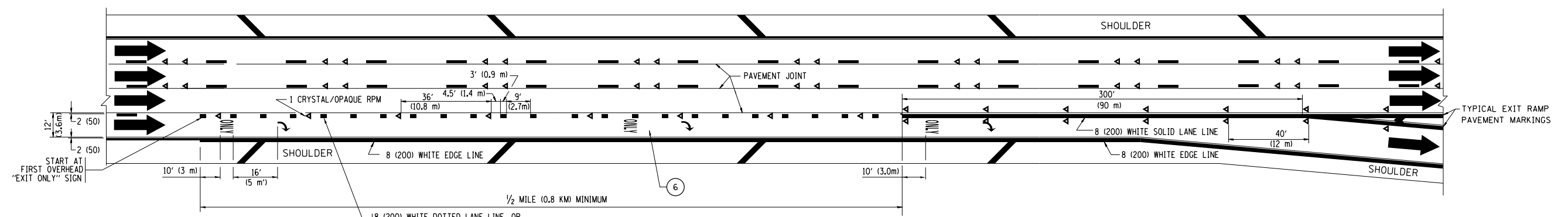
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



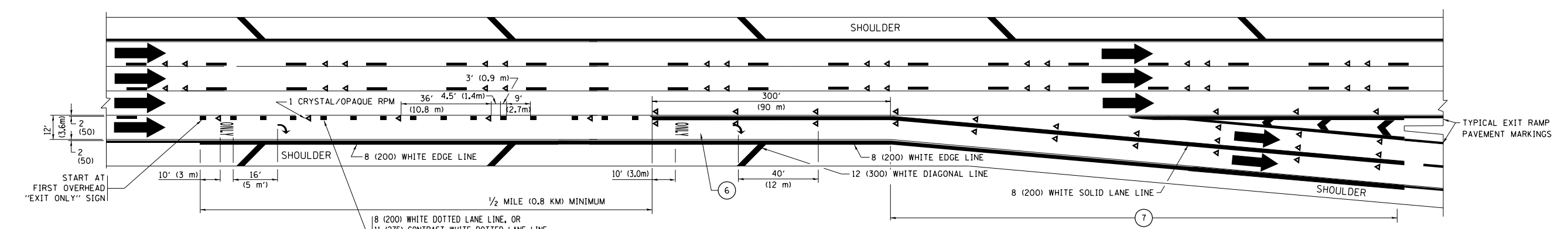
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = gorengautob	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A.P. RTE. 541	SECTION 2016-02IRS	COUNTY LAKE	TOTAL SHEETS 57	SHEET NO. 50
Default	PLT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET 2	OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 62C74	ILLINOIS FED. AID PROJECT	
	PLT DATE = 2/1/2018	DATE - 01-90	REVISED - S.P.B. 01-10									
			REVISED - M.D. 09-17									

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

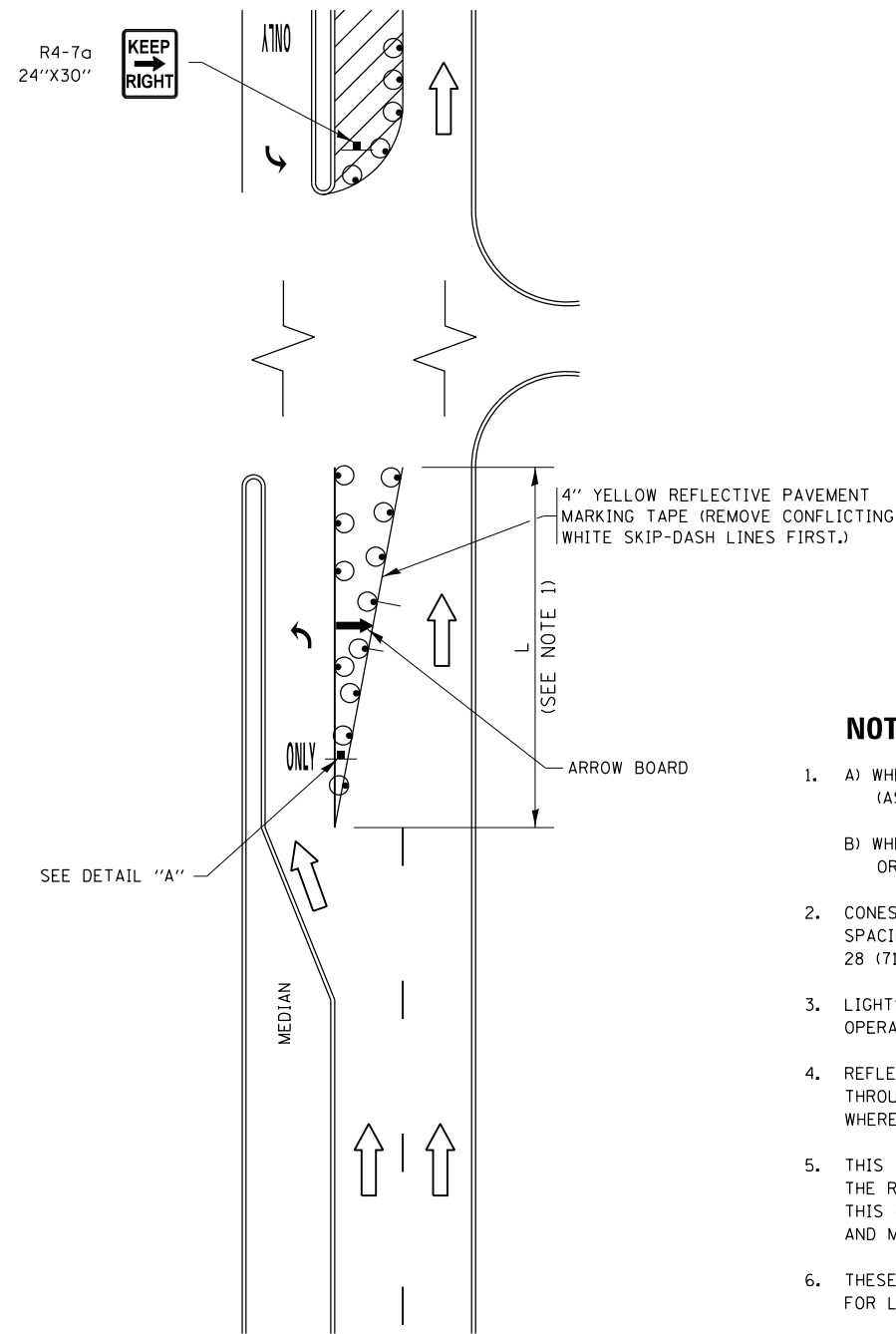


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

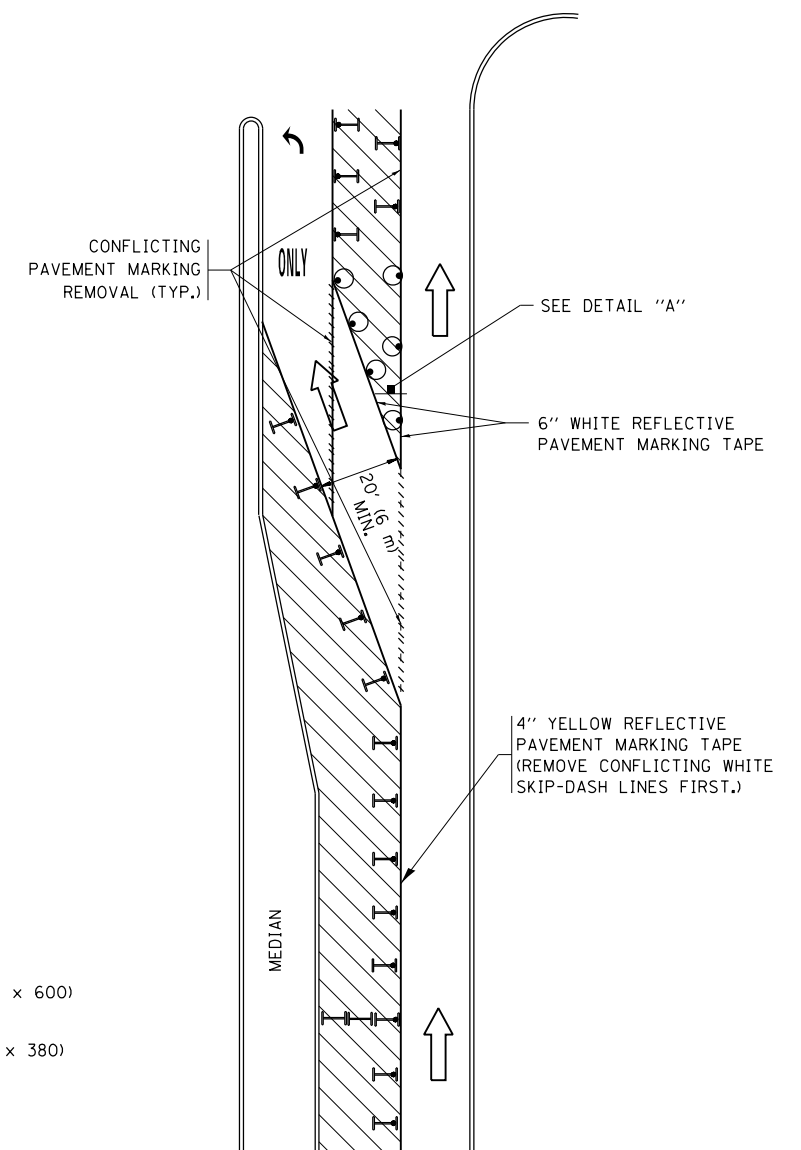
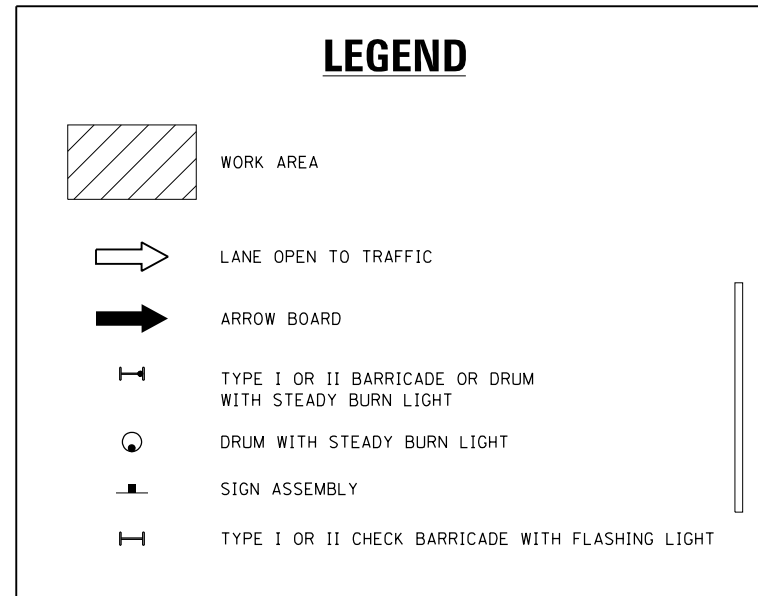
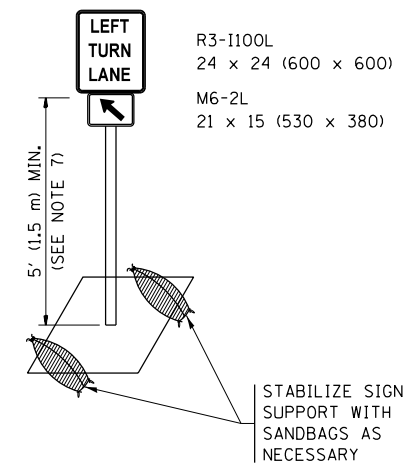


FIGURE 2



NOTES:

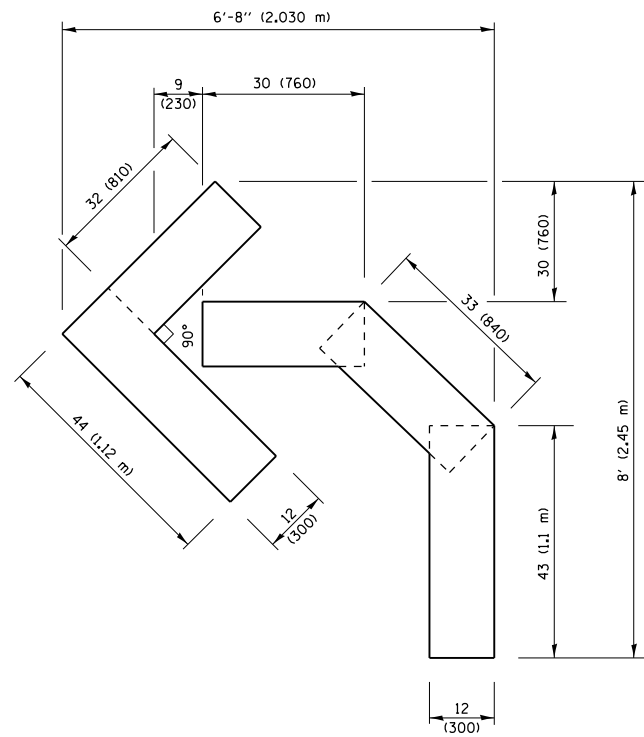
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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-I100R 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

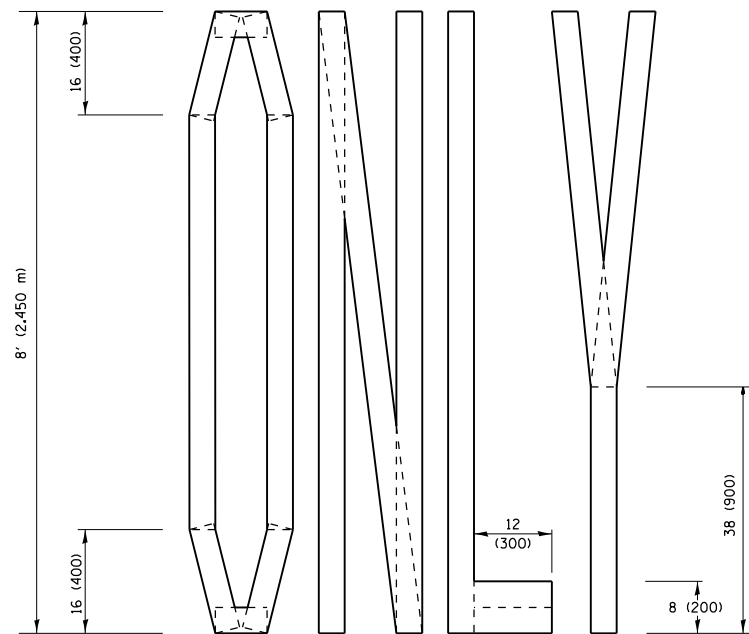
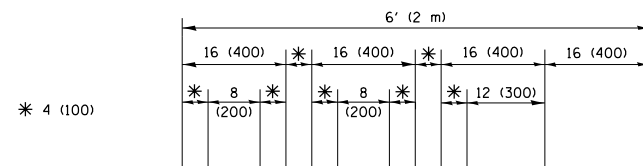
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gorengautob	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					541	2016-02IRS	LAKE	57	52
	PLOT SCALE = 100.0000' / 1in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 62C74				
	PLOT DATE = 2/1/2018	REVISED - T. RAMMACHER 01-06-00	REVISED -		ILLINOIS FED. AID PROJECT							



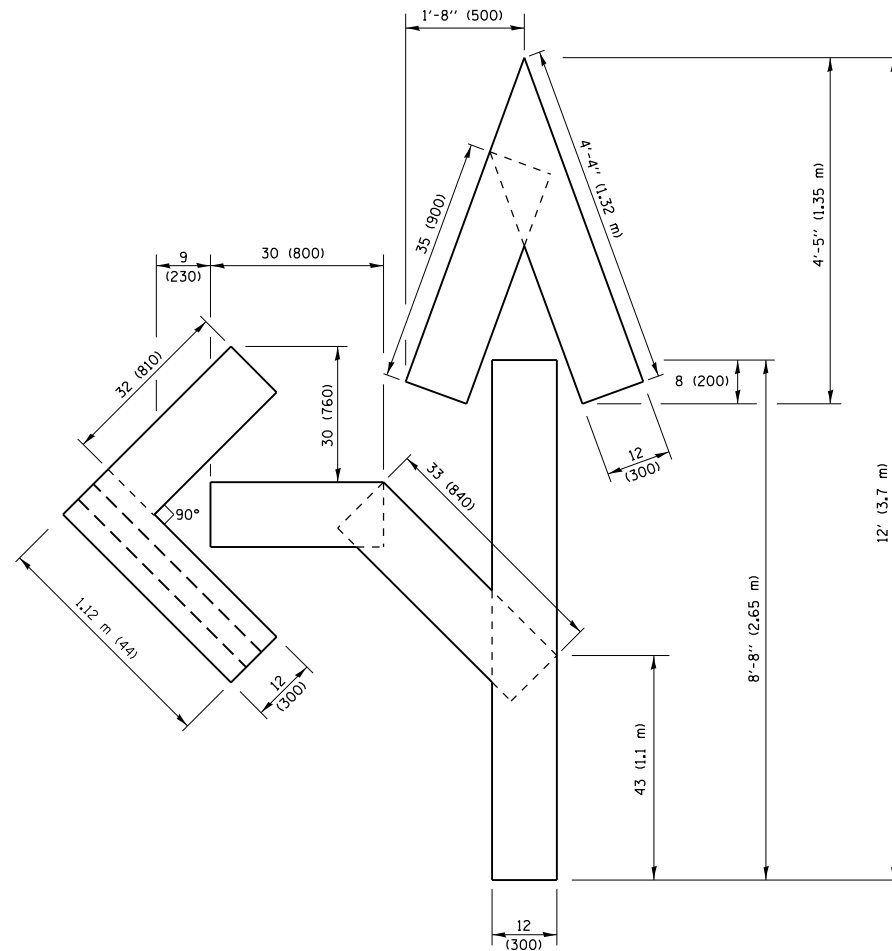
QUANTITY

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)

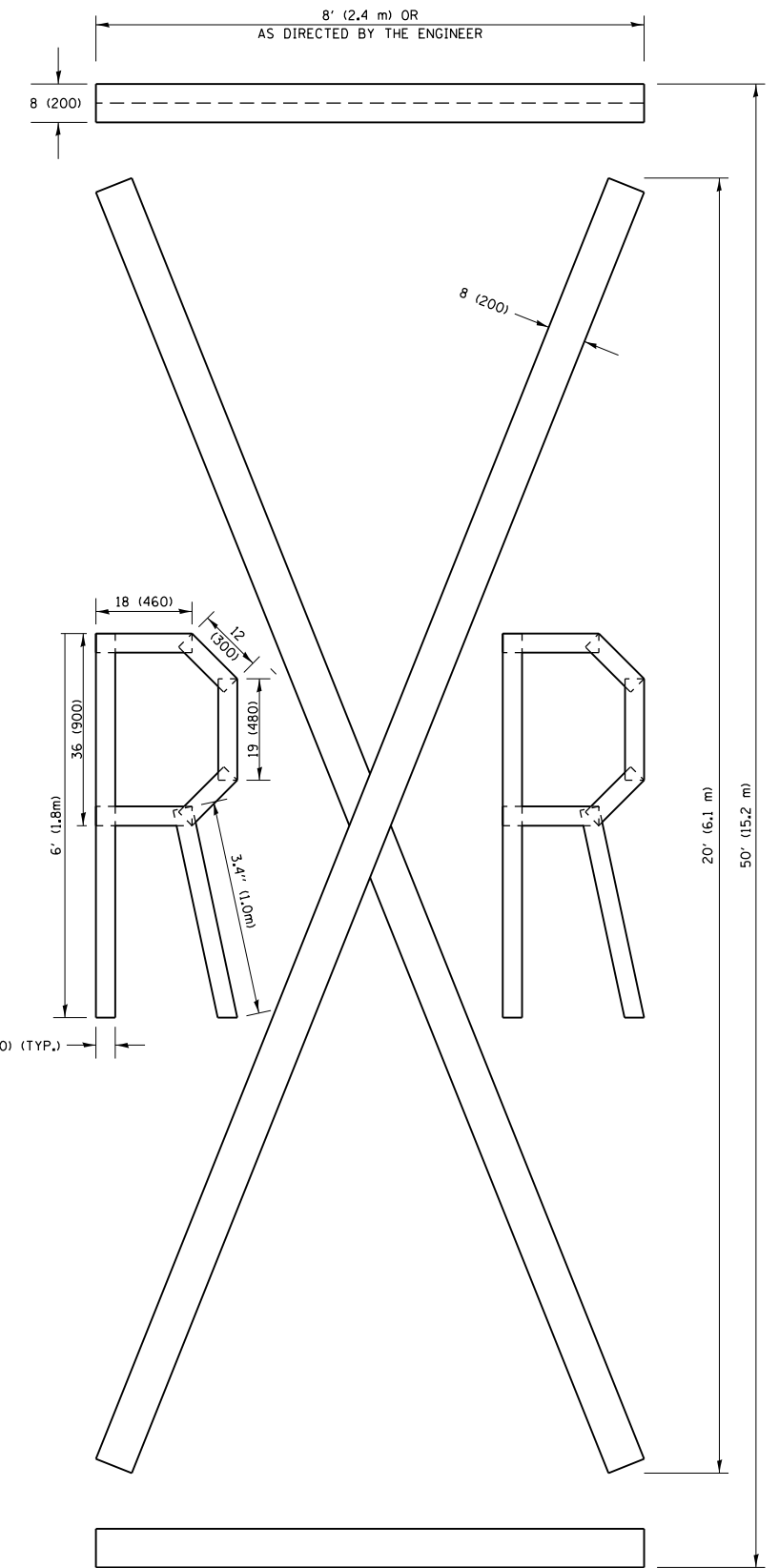


QUANTITY

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 = gorengautab	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw:\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\01381\Drawings\Design\Diststd.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**

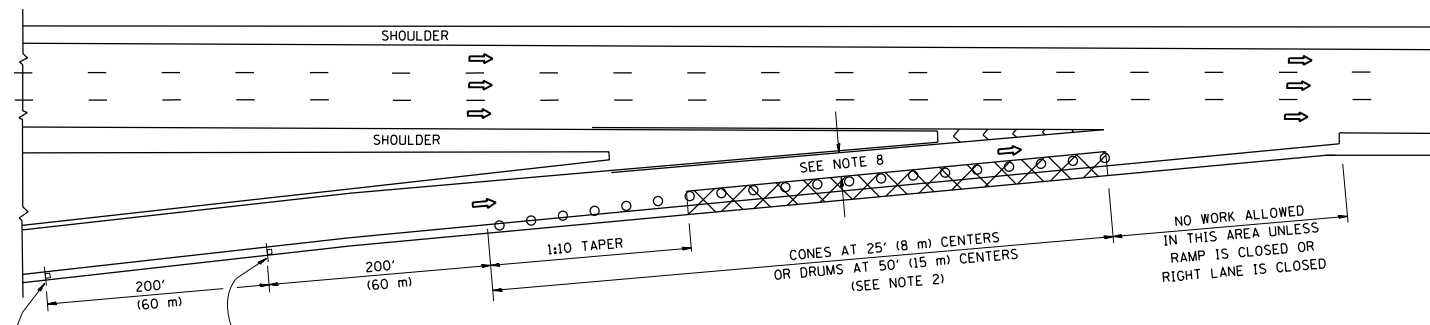
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

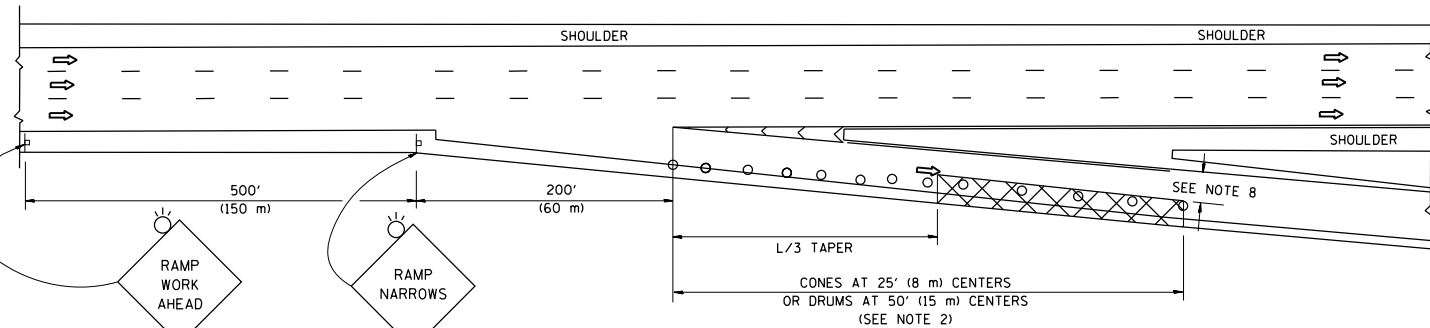
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-02IRS	LAKE	57	53
TC-16		CONTRACT NO. 62C74		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

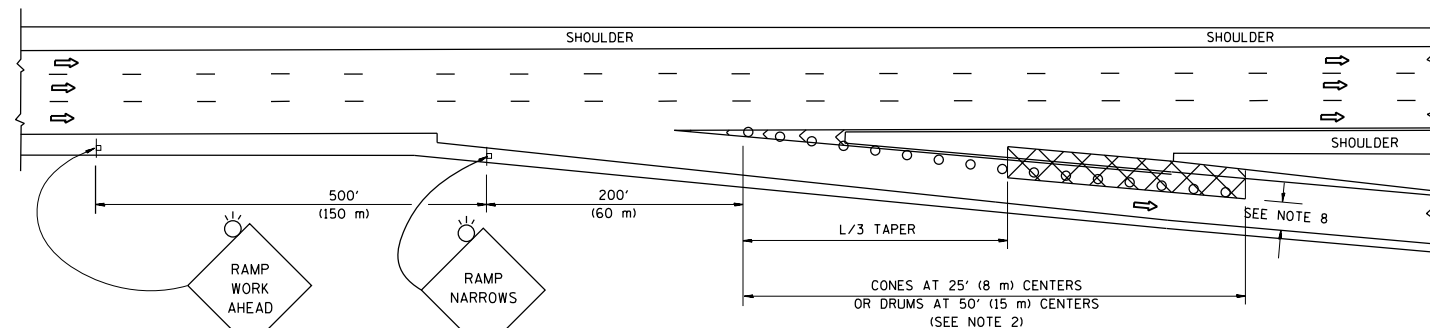
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

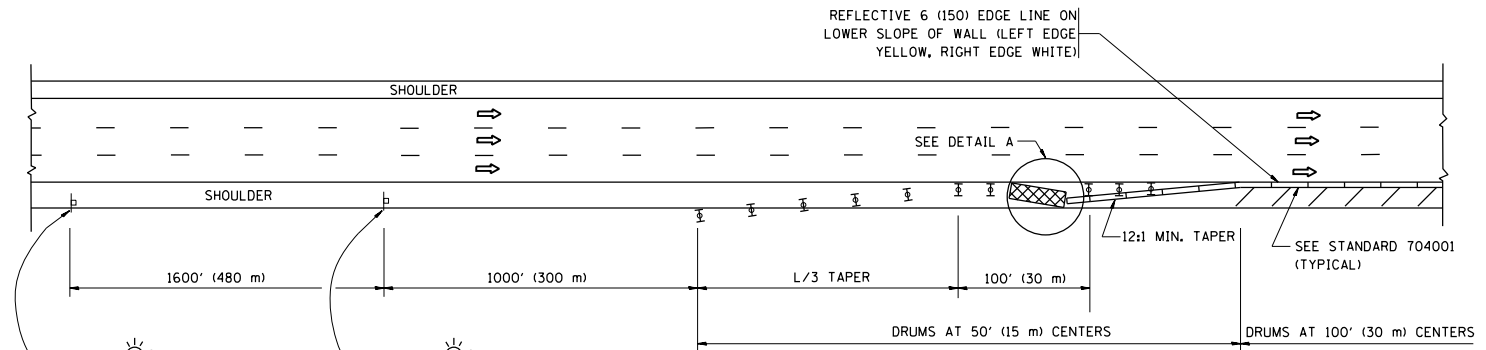
SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

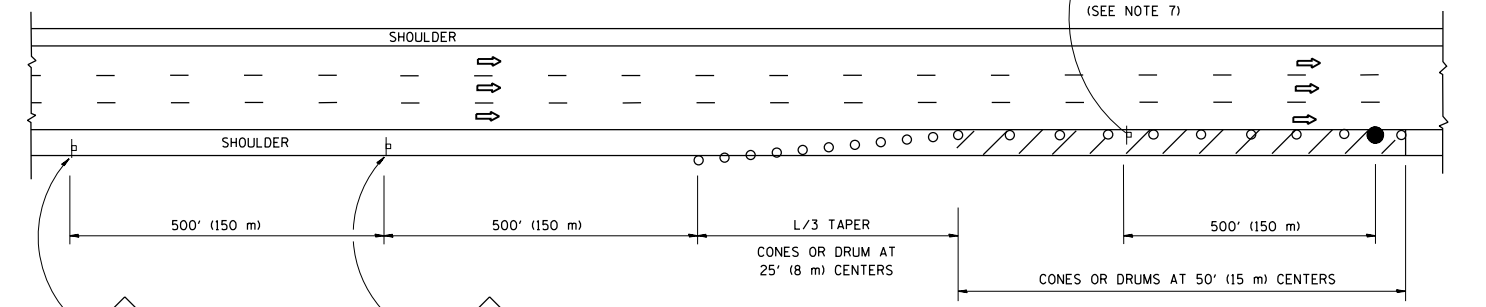
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

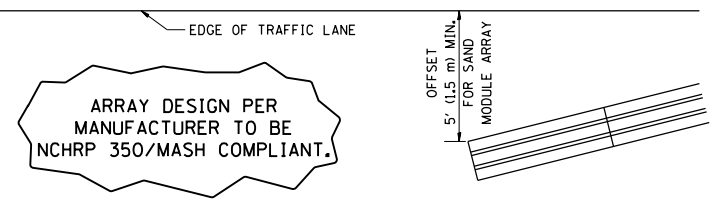


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

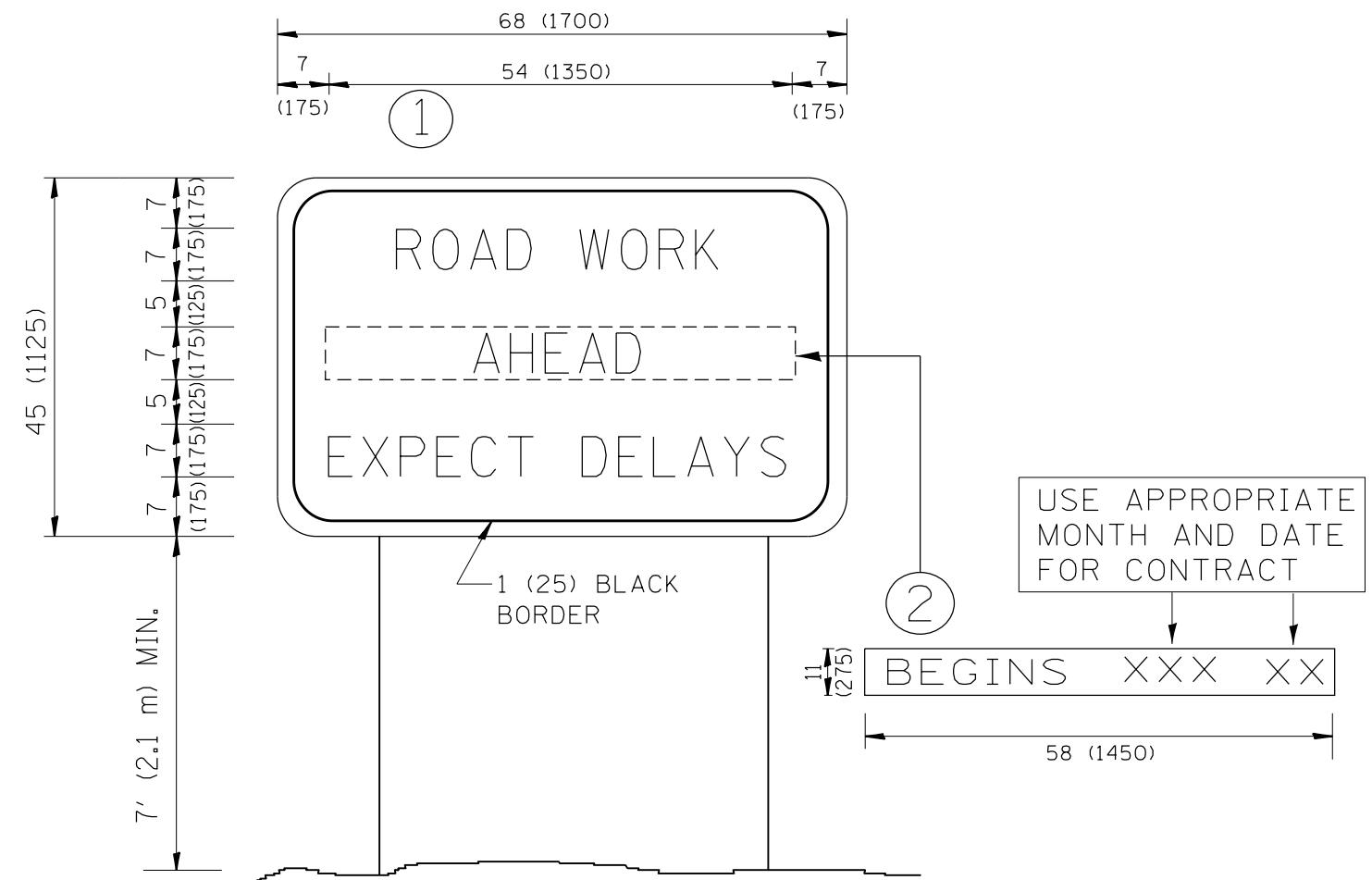
THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

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

FILE NAME =	USER NAME = gorengautob	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\DWG\5.dgn		CHECKED -	REVISED - S.P.B. 12-09			541	2016-021RS	LAKE	57	54
Default		DATE - 11-96	REVISED - M.D. 06-13			TC-17		CONTRACT NO. 62C74		
			REVISED - M.D. 01-18			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.

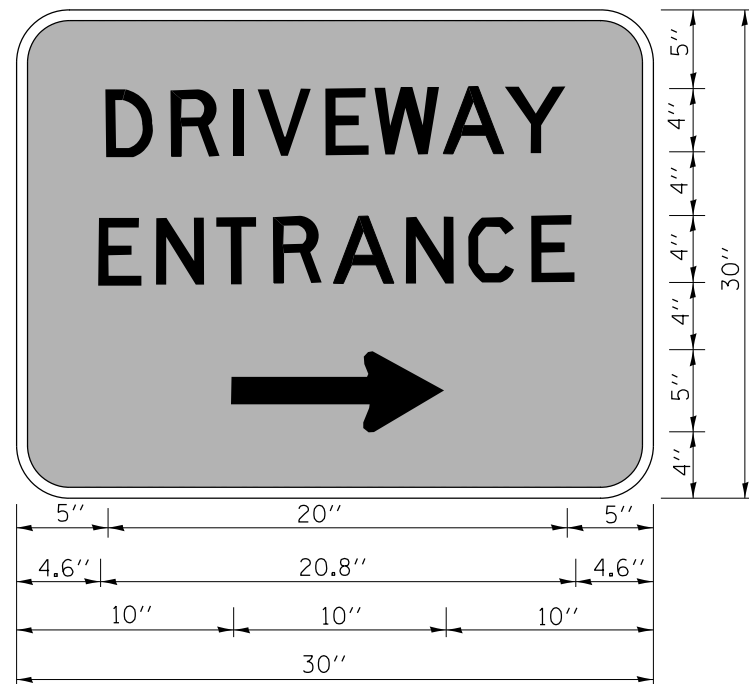
FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED - R. MIRS 09-15-97
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/1/2018	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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	55
TC-22		CONTRACT NO. 62C74		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

FILE NAME =	USER NAME = gorengautob	DESIGNED -	REVISED - C. JUCIUS 02-15-07
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI381\Drawings\Design\Diststd.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 2/1/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

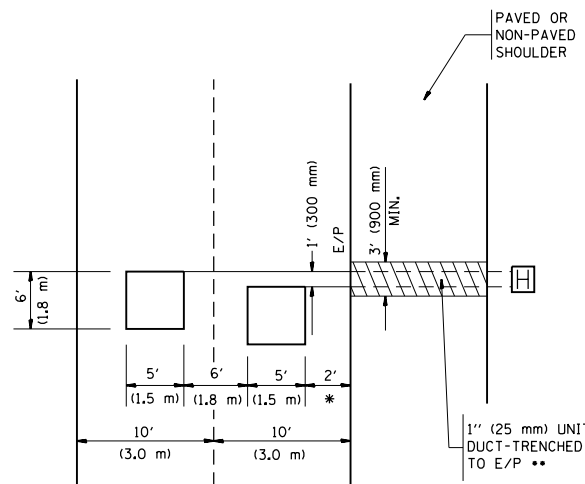
DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2016-021RS	LAKE	57	56
TC-26			CONTRACT NO. 62C74	
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.



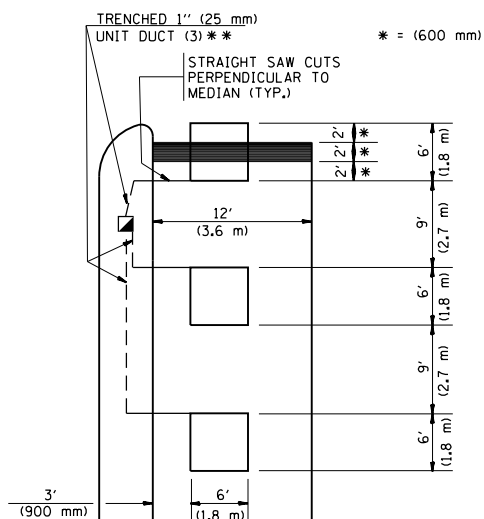
* = (600 mm)

** 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.

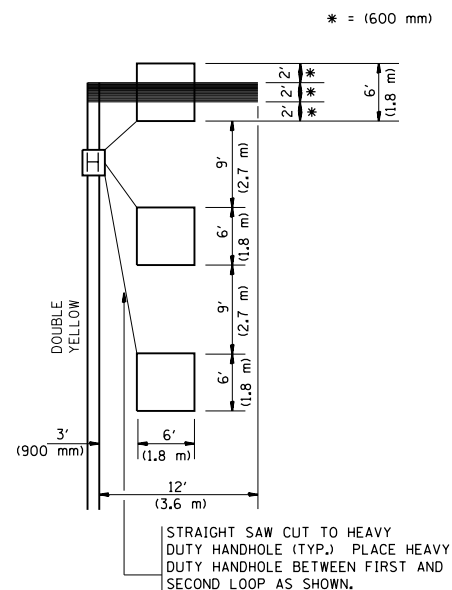


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

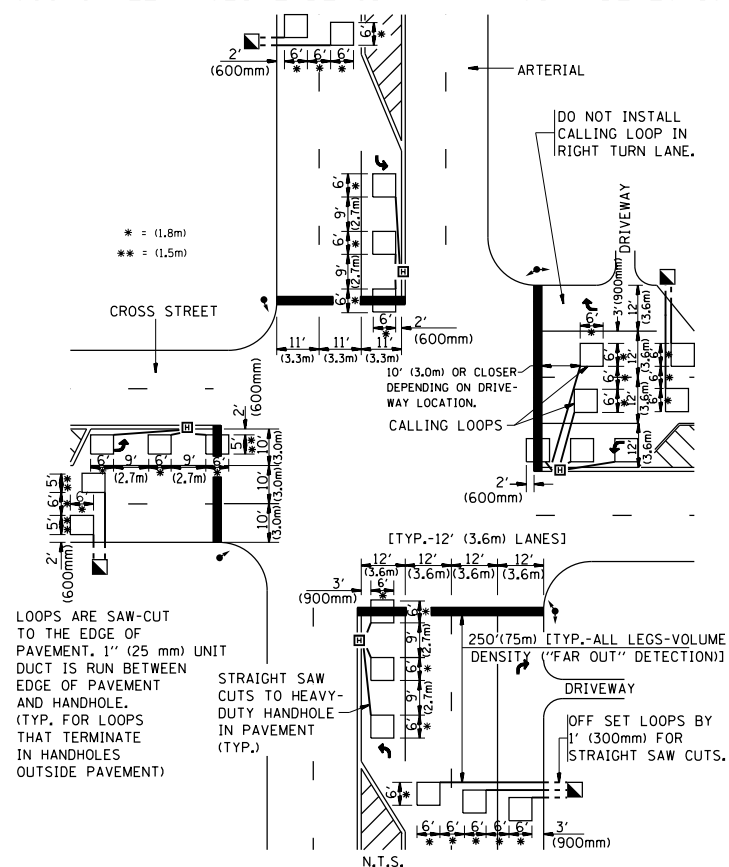
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



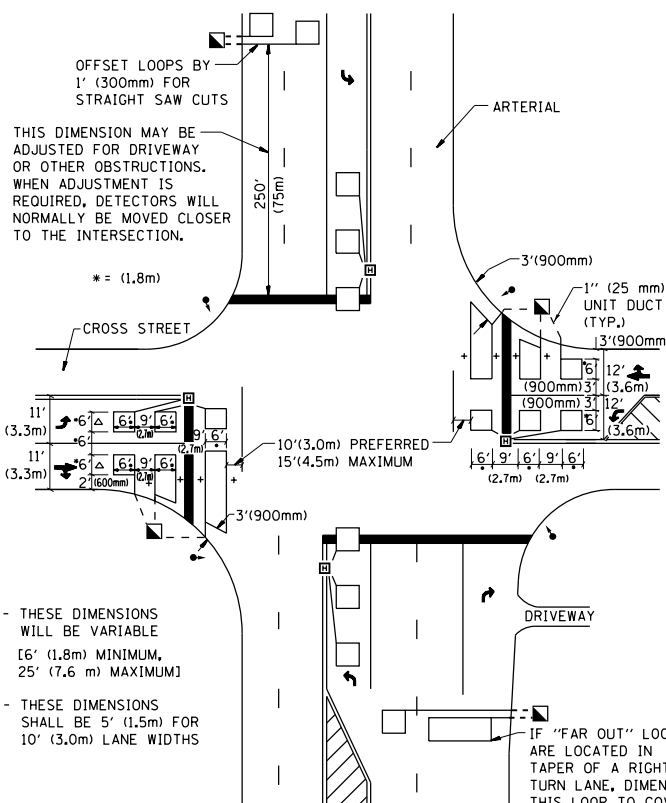
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 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 =	USER NAME = gorengautob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI3811\Drawings\Design\Diststd.dgn		CHECKED - R.K.F.	REVISED -		541	2016-021RS	LAKE	57	57			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		TS-07			CONTRACT NO. 62C74				
PLOT DATE = 2/1/2018			REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				