

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 1548 & 1549 (79TH STREET)  
WB CONNECTOR IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)

SECTION NO.: 1548 /1549 22 RESURFACE

PROJECT NO.: STP-U1VX(768)

STANDARD OVERLAY, ADA IMPROVEMENTS  
COOK COUNTY

C-91-226-22

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548 & 1549	1548/1549 22 RESURFACE	COOK	76	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 62R71	

D-91-180-22



LOCATION OF SECTION INDICATED THIS: - [Symbol]

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGES OF JUSTICE, BRIDGEVIEW AND THE CITY OF BURBANK

TRAFFIC DATA:

2022 ADT - 21900 TO 30500 VPD  
SPEED LIMIT - 35 TO 45 MPH

OMISSIONS:

B+OCT & IHB R.R.  
STA. 98+18 TO 101+34

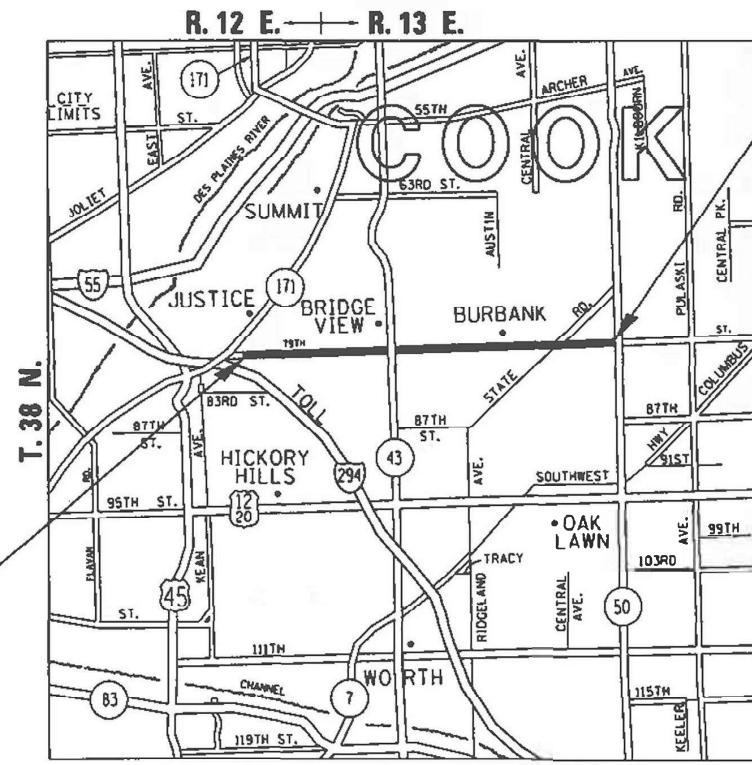
IL 43 (HARLEM AVE.)  
STA. 125+12 TO 127+49



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 BEGINS  
STA. 33+17



PROJECT ENDS  
STA. 284+83

STICKNEY AND LYONS TOWNSHIP

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432

PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62R71

GROSS LENGTH OF PROJECT - 25166 FEET - 4.77 MILES

NET LENGTH OF PROJECT - 24613 FEET - 4.66 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18, 2024  
*Jose Rios*  
JOSE RIOS, REGIONAL ENGINEER

May 10, 2024 *Steph M...*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Steph M...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

SHEET NO.

INDEX OF SHEETS

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STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK RAMPS FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE, TYPE 3
604086-05	FRAME AND GRATE, TYPE 23
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS GREATER THAN OR EQUAL 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NON-TRANSVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BI-DIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS FOR RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES:

- 1) BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).
- 2) TEN (10) FOOT TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- 3) THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE VILLAGES OF JUSTICE, BRIDGEVIEW, THE CITY OF BURBANK AND THE COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
- 4) THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5) ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- 6) ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 7) ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8) LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 9) DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 10) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 11) FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENT SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT IN PART OF THIS CONTRACT.
- 12) BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 13) WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/ h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/ h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING MACHINE IS SLOPED A MINIMUM (1:3).
- 14) THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOUSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 15) PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL. (TC-24)
- 16) THE RESIDENT ENGINEER SHALL CONTACT MR. EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, AT EMAD.ALHUSSEINI@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 17) THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- 18) THE CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK FOR LAYOUT.
- 19) PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT-TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 20) ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		<b>FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)</b>			1548 & 1549	1548/1549 22 RESURFACE	COOK	76	2	
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT	
	PLOT DATE = *DATE*	DATE -	REVISED -		<b>CONTRACT NO. 62R71</b>								

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
20100110	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER)	UNIT	48.5	48.5				
20100210	TREE REMOVAL ( OVER 15 UNITS DIAMETER)	UNIT	15.2	15.2				
20101300	TREE PRUNING ( 1 TO 10 INCH DIAMETER)	EACH	4	4				
20101350	TREE PRUNING ( OVER 10 INCH DIAMETER)	EACH	13	13				
20200100	EARTH EXCAVATION	CU YD	450	450				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	559	559				
25003210	INTERSEEDING, CLASS 2A	ACRE	1	1				
25200110	SODDING, SALT TOLERANT	SO YD	559	559				
40600290	BITUMINOUS MATERIALS ( TACK COAT)	POUND	121490	121490				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	117074	117074				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	270	270				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	3801	3801				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	4780	4780				
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	7425	7425				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	17639	17639				
42001300	PROTECTIVE COAT	SO YD	4844	4844				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	38938	38938				
42400800	DETECTABLE WARNINGS	SO FT	3956	3956				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	179984	179984				
44000600	SIDEWALK REMOVAL	SO FT	38346	38346				
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SO YD	4780	4780				
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	1620	1620				
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	1080	1080				
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	3700	3700				
60251500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	5	5				
60251600	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 12 FRAME AND GRATE	EACH	5	5				

\* SPECIALTY ITEMS  
 NON PARTICIPATING ITEMS

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	DRAWN -	REVISED -
PLOT SCALE = \$SCALES	CHECKED -	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**  
 SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 3
CONTRACT NO. 62R71			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
60251730	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	5	5				
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	5	5				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	122	122				
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	450	450				
*66900530	SOIL DISPOSAL ANALYSIS	EACH	15	15				
*66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				
*66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
*66901006	REGULATED SUBSTANCES MONITORING	CAL DA	30	30				
67100100	MOBILIZATION	L SUM	1	1				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1				
70102631	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1	1				
70102633	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	EACH	1	1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	22280	22280				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	3714	3714				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	3825	3825				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	55990	55990				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	20066	20066				
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	646	646				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	3799	3799				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	2401	2401				

\* SPECIALTY ITEMS  
 NON PARTICIPATING ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**  
 SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 4
CONTRACT NO. 62R71			ILLINOIS FED. AID PROJECT	



SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	3825	3825				
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	55990	55990				
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	20066	20066				
*78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	646	646				
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3799	3799				
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	2401	2401				
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2221	2221				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1888	1888				
*81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	542	542				
*85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	8	8				
*87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	4284	4284				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
*87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1930	1930				
*87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	770	770				
*87900200	DRILL EXISTING HANDHOLE	EACH	30	30				
*88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16	16				
*X88600105	DETECTOR LOOP REPLACEMENT	FOOT	4368	4368				
*89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	8	8				
*89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1193	1193				
*89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	385	385				
*89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7	7				
*89502376	REBUILD EXISTING HANDHOLE	EACH	1	1				
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2				
K0029618	WEED CONTROL, BROADLEAF IN TURF	GALLON	1	1				
K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1				

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
<b>1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)</b>			
SCALE: NONE	SHEET	OF	SHEETS
STA.	TO STA.		

F.A. RTE. 1548/ 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 5
CONTRACT NO. 62R71			ILLINOIS FED. AID PROJECT	

\* SPECIALTY ITEMS  
 NON PARTICIPATING ITEMS

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
X0327989	REMOVE EXISTING BRICK PAVERS	SO FT	4563	4563				
X0540000	BRICK PAVERS	SO FT	4545	4545				
*X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6	6				
*X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	24	24				
X2010200	TREE LIMB REMOVAL (OVER 10 INCHES DIAMETER)	EACH	2	2				
X2010400	STUMP REMOVAL ONLY	UNIT	104.3	104.3				
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	2154	2154				
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	3350	3350				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	900	900				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	20				
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				
*X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	64	64				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005	100% STATE 0005			
*X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	116	116				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15	15				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
*Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	8	8				
Ø Z0076600	TRAINEES	HOURS	1000	1000				
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	1000	1000				
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	11140	11140				
88600100	DETECTOR LOOP, TYPE I	FOOT	4734	4734				
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1	1				
							Ø 0042	

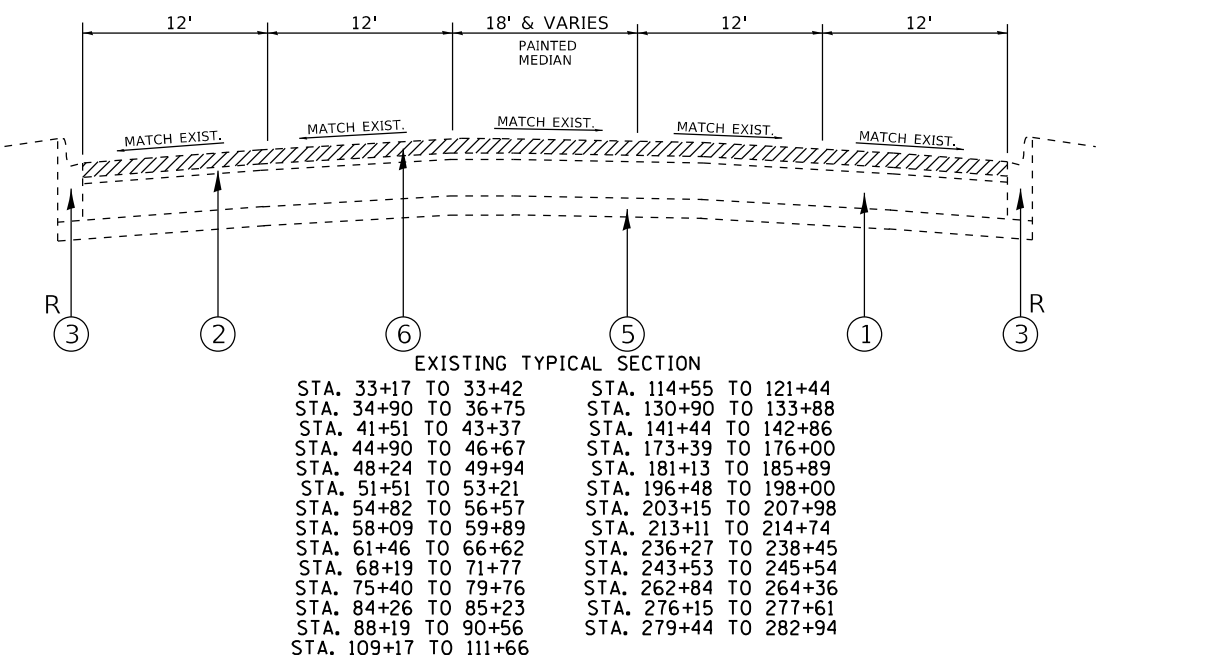
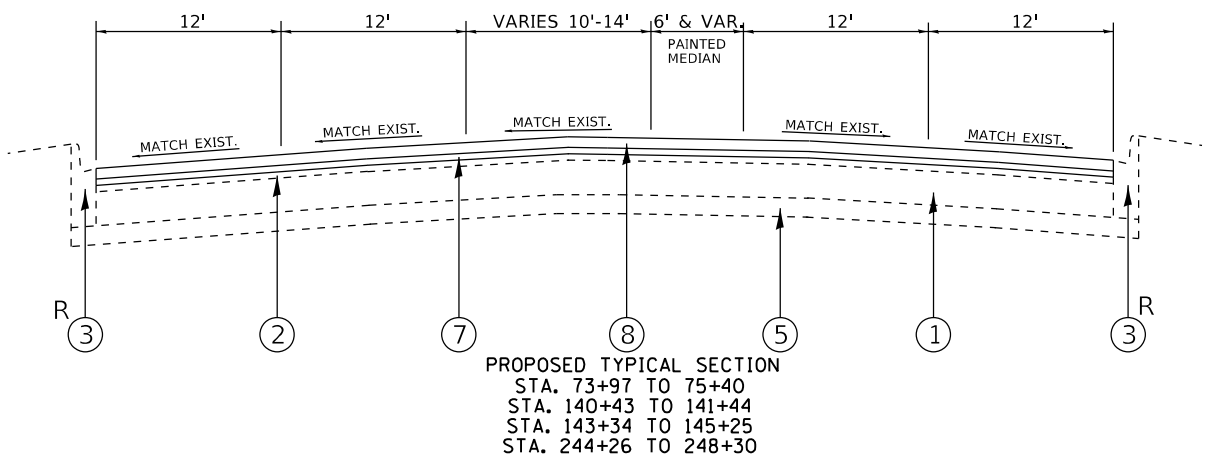
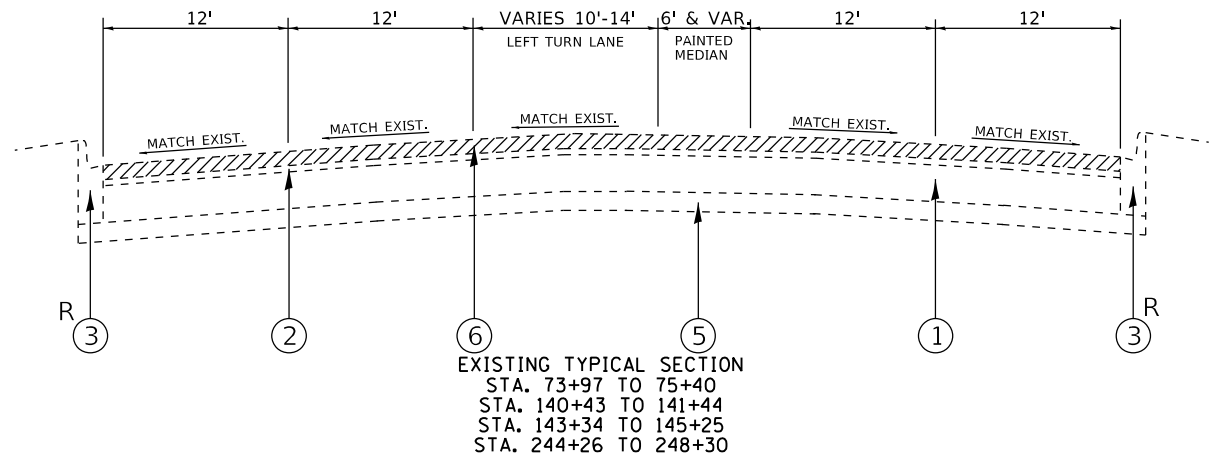
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

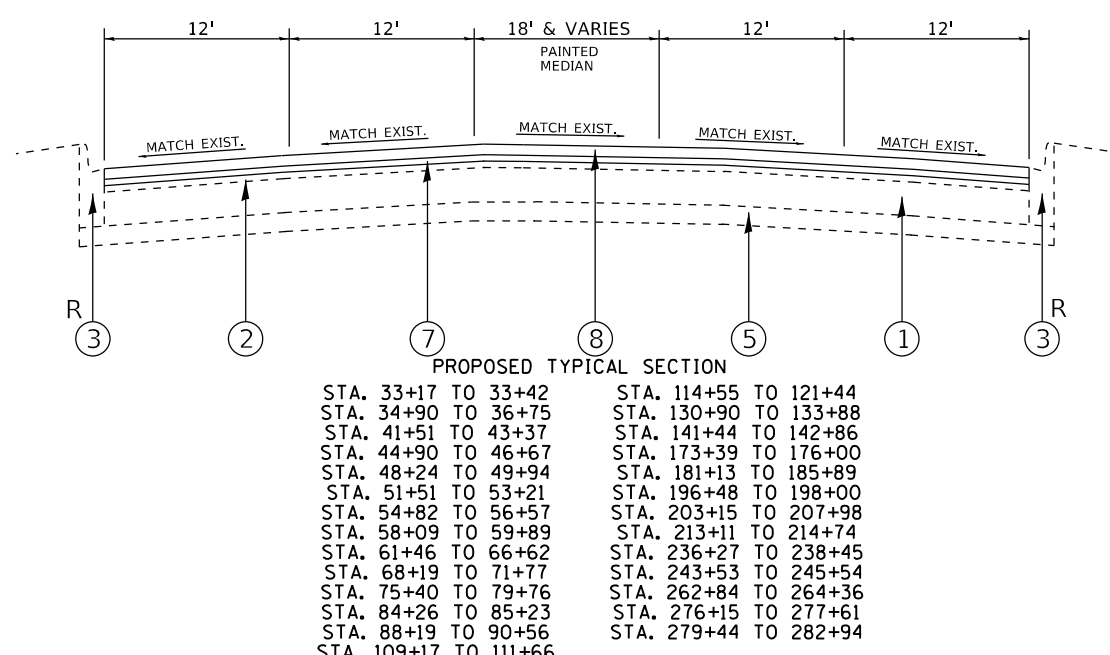
<b>SUMMARY OF QUANTITIES</b>			
<b>1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)</b>			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 6
CONTRACT NO. 62R71			ILLINOIS FED. AID PROJECT	



MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
<b>PATCHING</b>		
CLASS "D" PATCHES (HMA BINDER, IL-19MM)	4% @ 70 GYR.	QC / QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)	4% @ 70 GYR.	QC / QA
<b>PAVEMENT RESURFACING</b>		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/4"	3.5% @ 80 GYR.	PPF
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	QCP
QMP DESIGNATION: QUALITY CONTROL FOR PERFORMANCE (QCP); QUALITY CONTROL / QUALITY ASSURANCE (QC / QA); PAY FOR PERFORMANCE (PPF)		

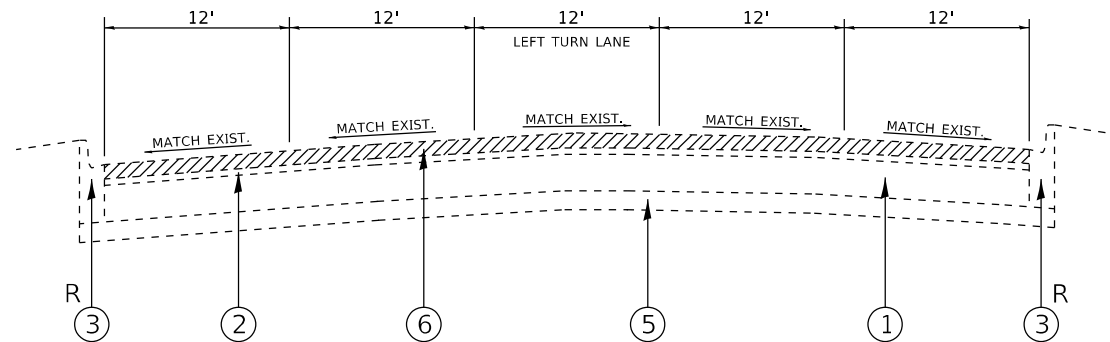


- LEGEND:**
- ① EXISTING P.C.C. PAVEMENT ±9"
  - ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
  - ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
  - ④ EXISTING BARRIER MEDIAN
  - ⑤ EXISTING STABILIZED SUB-BASE
  - ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
  - ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
  - ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/4"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)

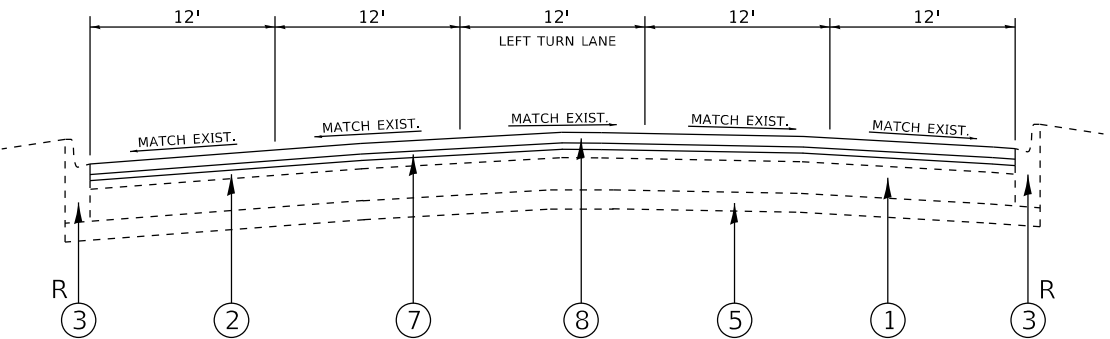
**NOTES:**  
 THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LBS./SQ. YD./ IN.  
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.  
 THE PATCHING SHALL BE DONE PRIOR TO MILLING  
 THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50.

**LEGEND:**

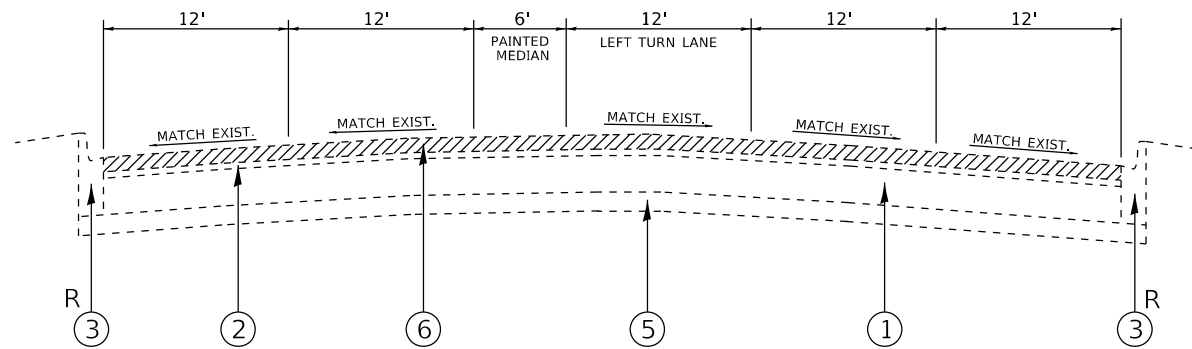
- ① EXISTING P.C.C. PAVEMENT ±9"
- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING BARRIER MEDIAN
- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



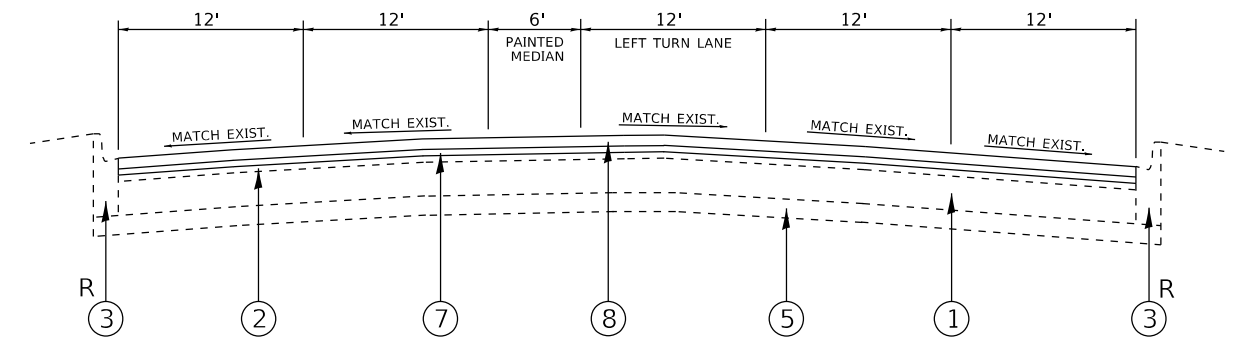
**EXISTING TYPICAL SECTION**  
 STA. 33+42 TO 34+90    STA. 85+23 TO 93+19  
 STA. 36+75 TO 41+51    STA. 111+66 TO 114+55  
 STA. 43+37 TO 44+90    STA. 145+25 TO 170+05  
 STA. 46+67 TO 48+24    STA. 171+82 TO 172+62  
 STA. 49+94 TO 51+51    STA. 186+55 TO 195+82  
 STA. 53+83 TO 54+82    STA. 216+39 TO 235+65  
 STA. 56+57 TO 58+09    STA. 248+30 TO 262+16  
 STA. 59+89 TO 61+46    STA. 264+36 TO 265+39  
 STA. 67+16 TO 68+19    STA. 277+61 TO 278+70



**PROPOSED TYPICAL SECTION**  
 STA. 33+42 TO 34+90    STA. 85+23 TO 93+19  
 STA. 36+75 TO 41+51    STA. 111+66 TO 114+55  
 STA. 43+37 TO 44+90    STA. 145+25 TO 170+05  
 STA. 46+67 TO 48+24    STA. 171+82 TO 172+62  
 STA. 49+94 TO 51+51    STA. 186+55 TO 195+82  
 STA. 53+83 TO 54+82    STA. 216+39 TO 235+65  
 STA. 56+57 TO 58+09    STA. 248+30 TO 262+16  
 STA. 59+89 TO 61+46    STA. 264+36 TO 265+39  
 STA. 67+16 TO 68+19    STA. 277+61 TO 278+70



**EXISTING TYPICAL SECTION**  
 STA. 71+77 TO 72+87

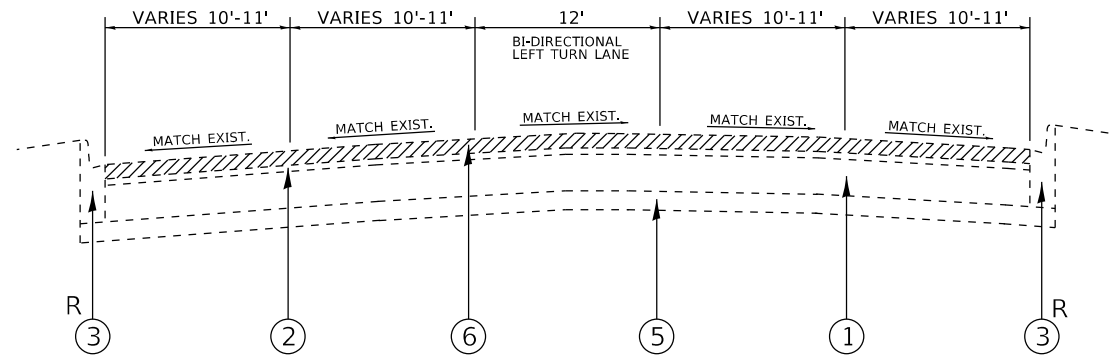


**PROPOSED TYPICAL SECTION**  
 STA. 71+77 TO 72+87

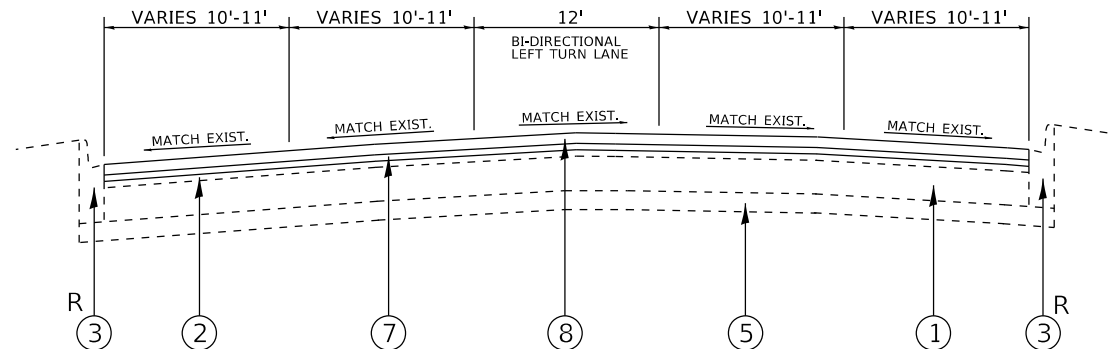
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*FILEL*		DRAWN -	REVISED -		FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)			CONTRACT NO. 62R71				
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PLOT DATE = *DATE*		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

**LEGEND:**

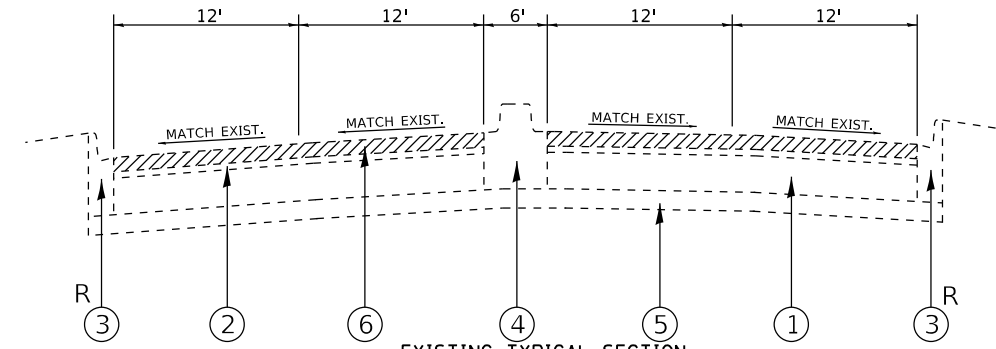
- ① EXISTING P.C.C. PAVEMENT ±9"
- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING BARRIER MEDIAN
- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



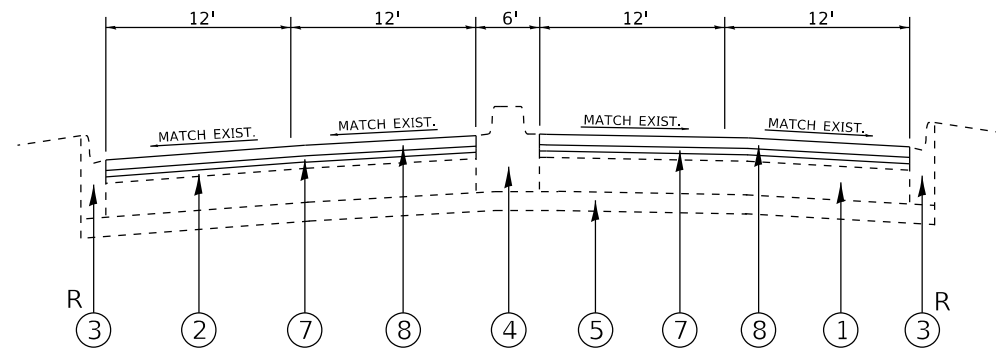
**EXISTING TYPICAL SECTION**  
 STA. 80+26 TO 84+26  
 STA. 198+00 TO 203+15  
 STA. 207+98 TO 213+11  
 STA. 266+17 TO 276+15



**PROPOSED TYPICAL SECTION**  
 STA. 80+26 TO 84+26  
 STA. 198+00 TO 203+15  
 STA. 207+98 TO 213+11  
 STA. 266+17 TO 276+15



**EXISTING TYPICAL SECTION**  
 STA. 90+56 TO 98+18  
 STA. 101+34 TO 109+17



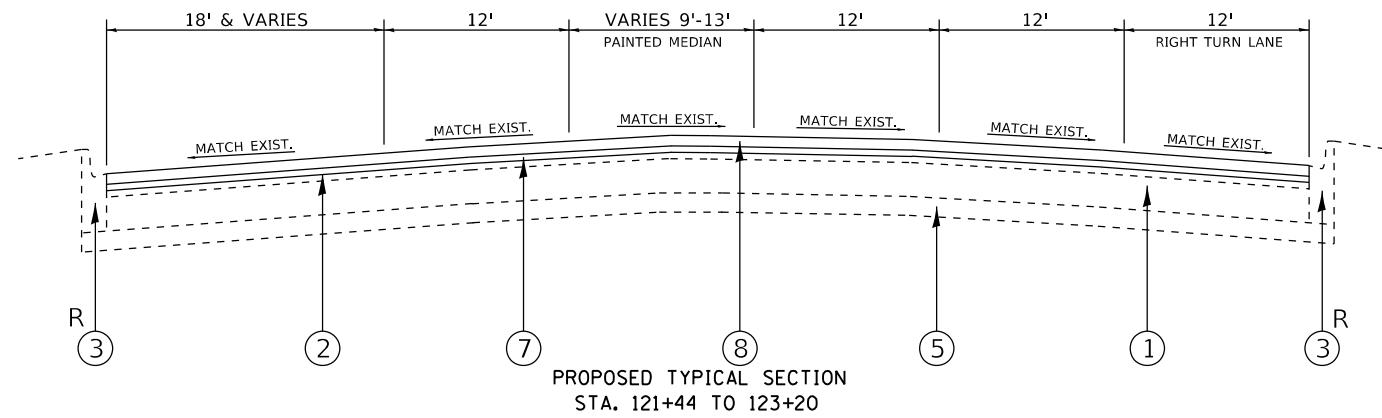
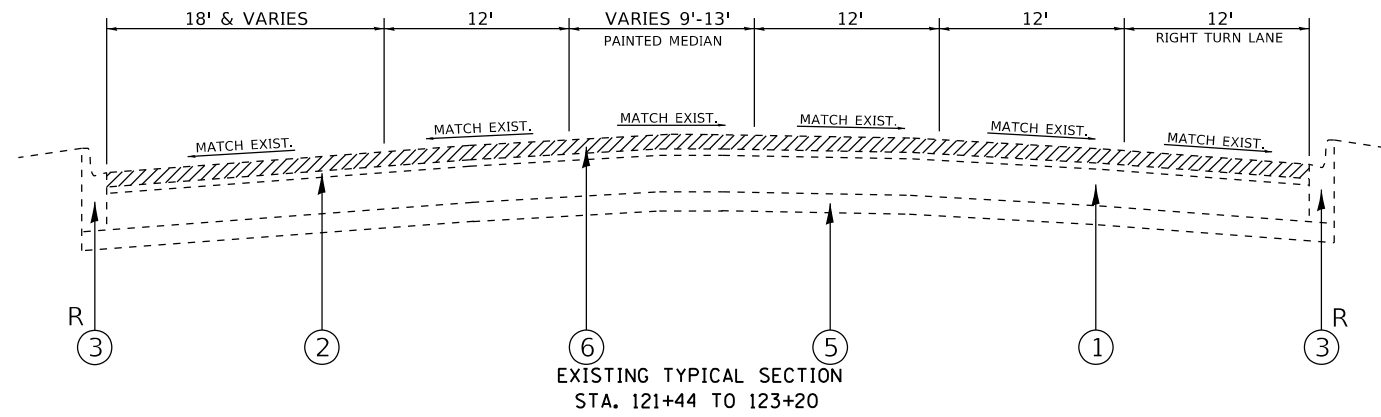
**PROPOSED TYPICAL SECTION**  
 STA. 90+56 TO 98+18  
 STA. 101+34 TO 109+17

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE. 1548 & 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 9
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		CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									



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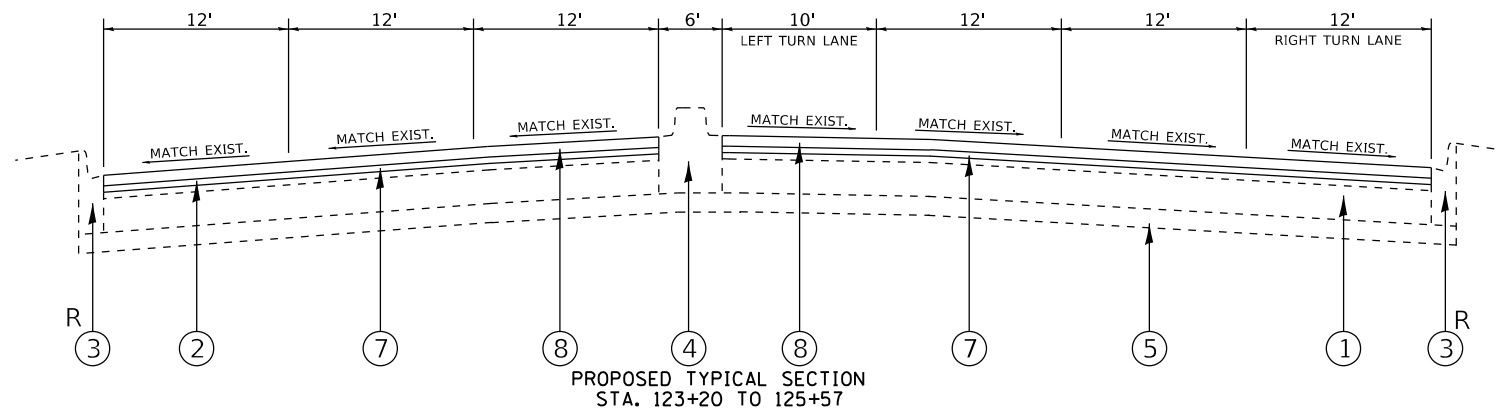
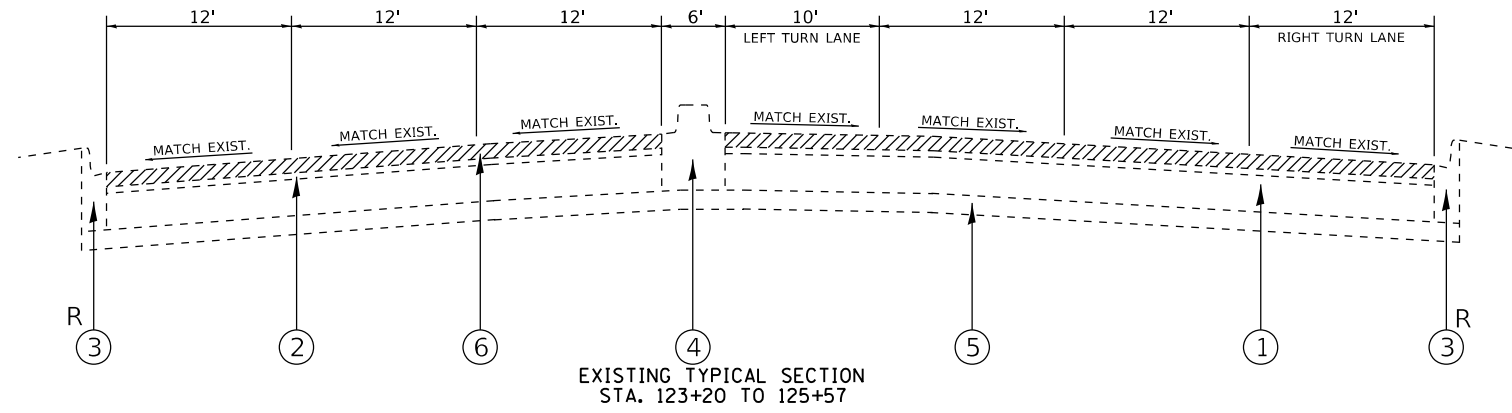
- ① EXISTING P.C.C. PAVEMENT ±9"
- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING BARRIER MEDIAN
- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE. 1548 & 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 10
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		CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									

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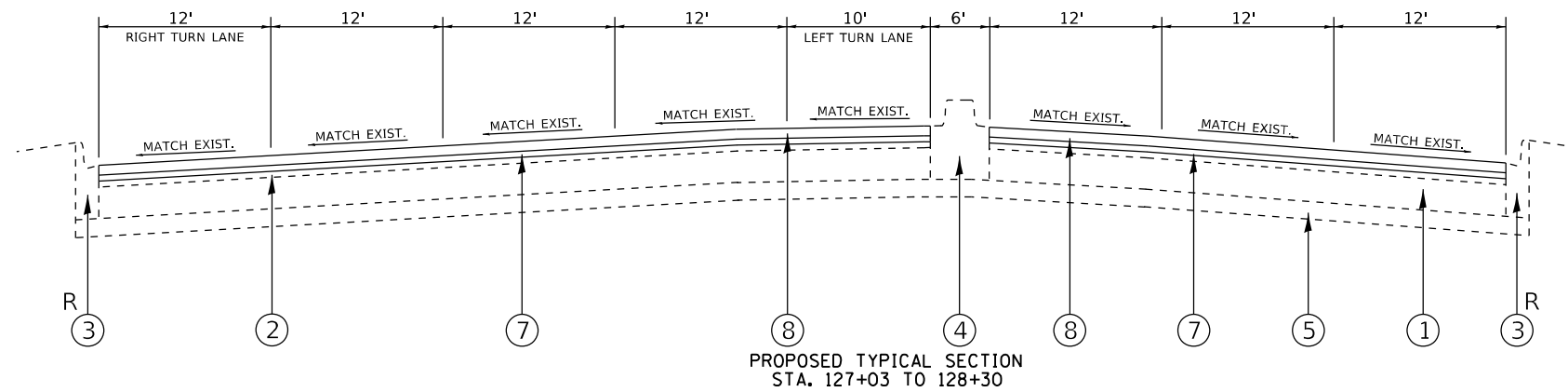
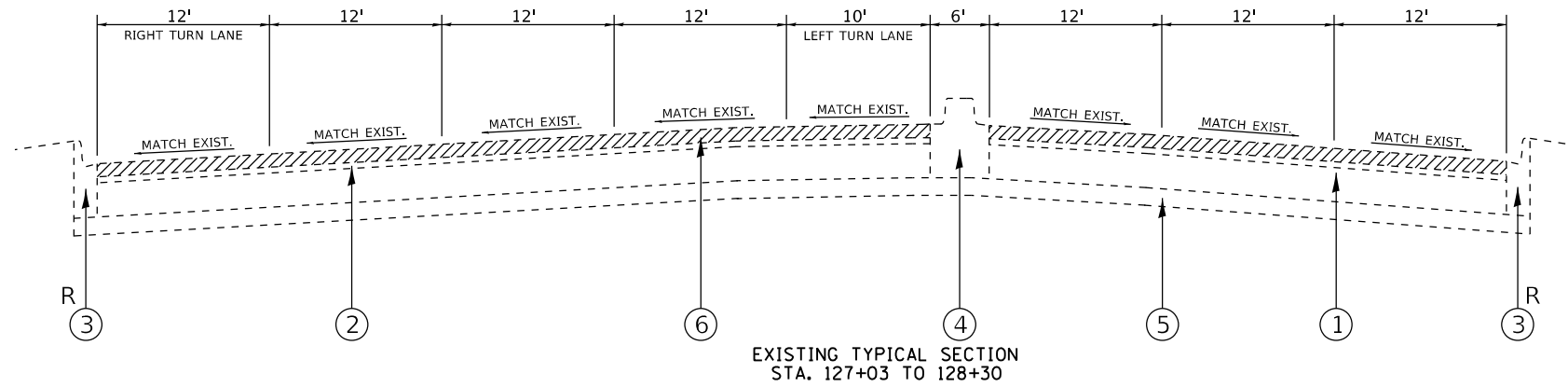
- ① EXISTING P.C.C. PAVEMENT ±9"
- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE. 1548 & 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 11
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		CHECKED -	REVISED -		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

**LEGEND:**

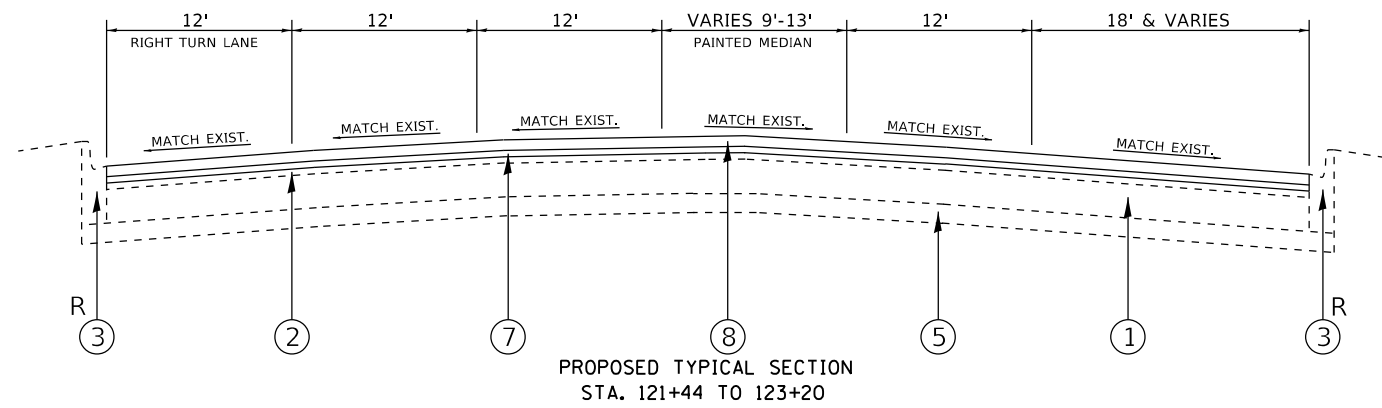
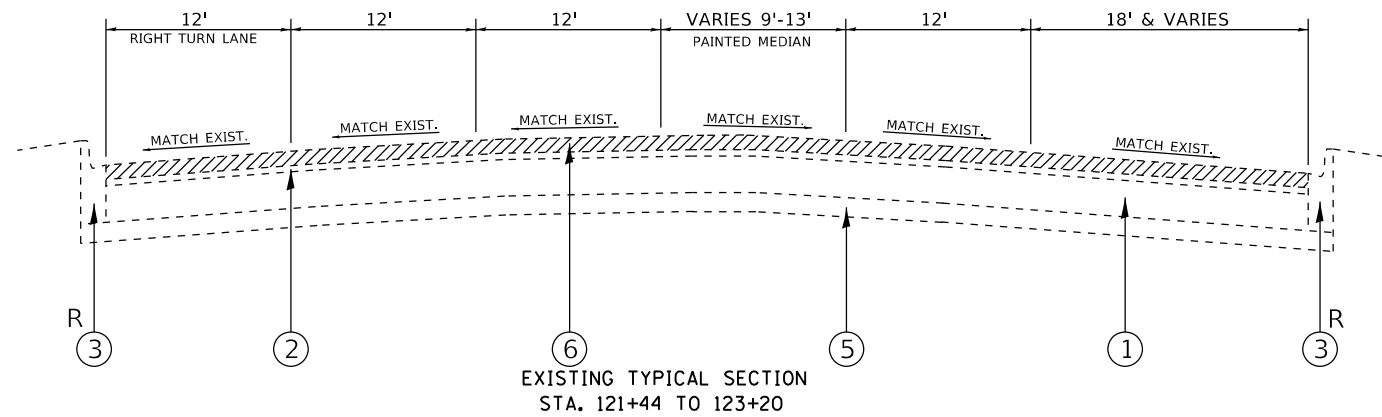
- ① EXISTING P.C.C. PAVEMENT ±9"
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- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
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- ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



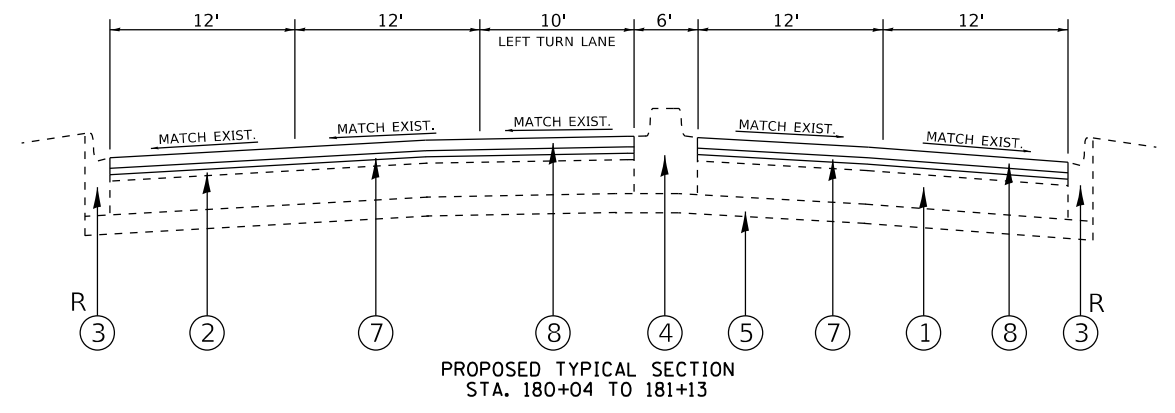
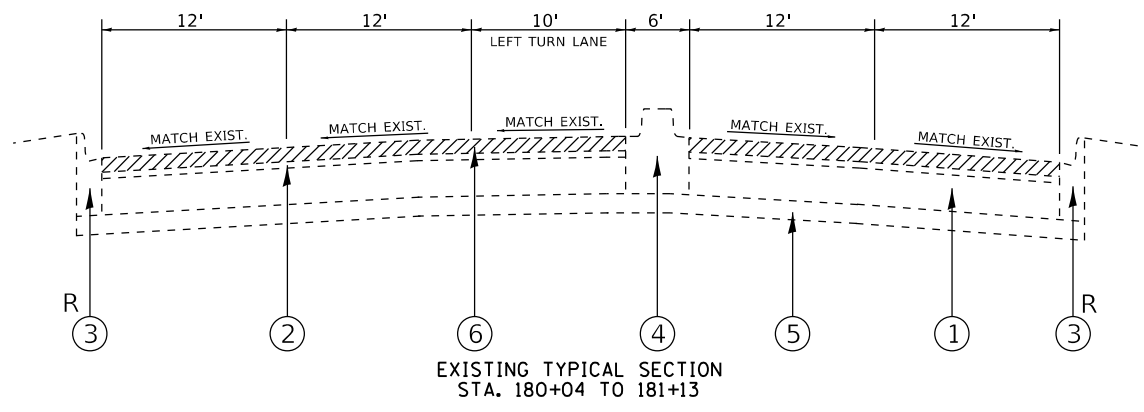
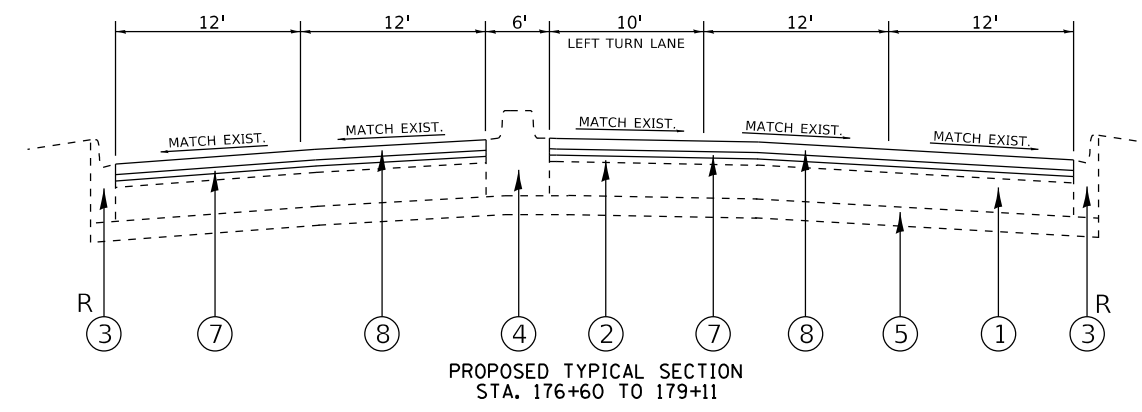
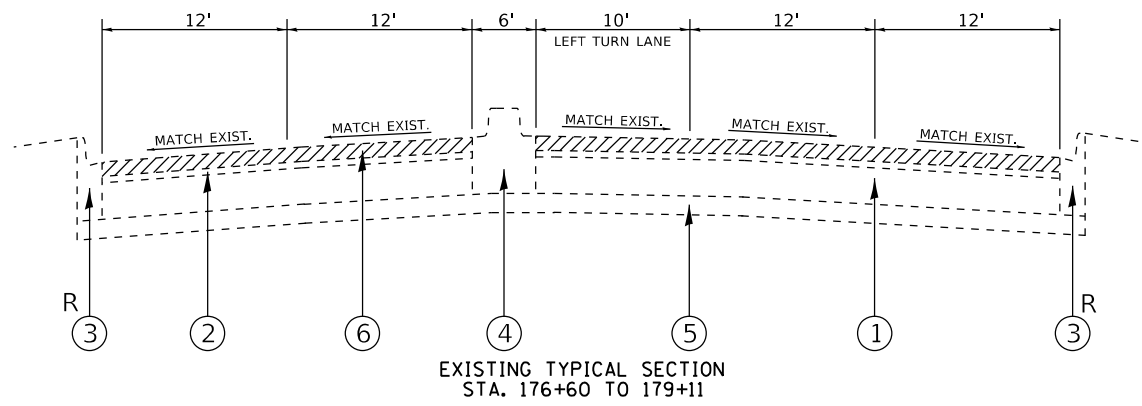
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		CHECKED -	REVISED -		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

**LEGEND:**

- ① EXISTING P.C.C. PAVEMENT ±9"
- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- ⑤ EXISTING STABILIZED SUB-BASE
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
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- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE. 1548 & 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 13
		DRAWN -	REVISED -		FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)			CONTRACT NO. 62R71				
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		DATE -	REVISED -									



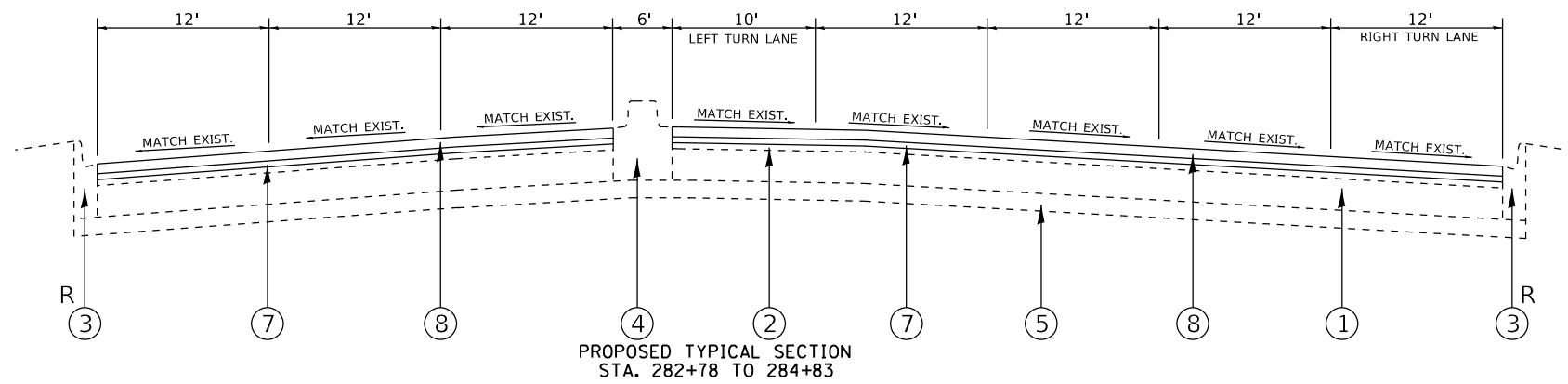
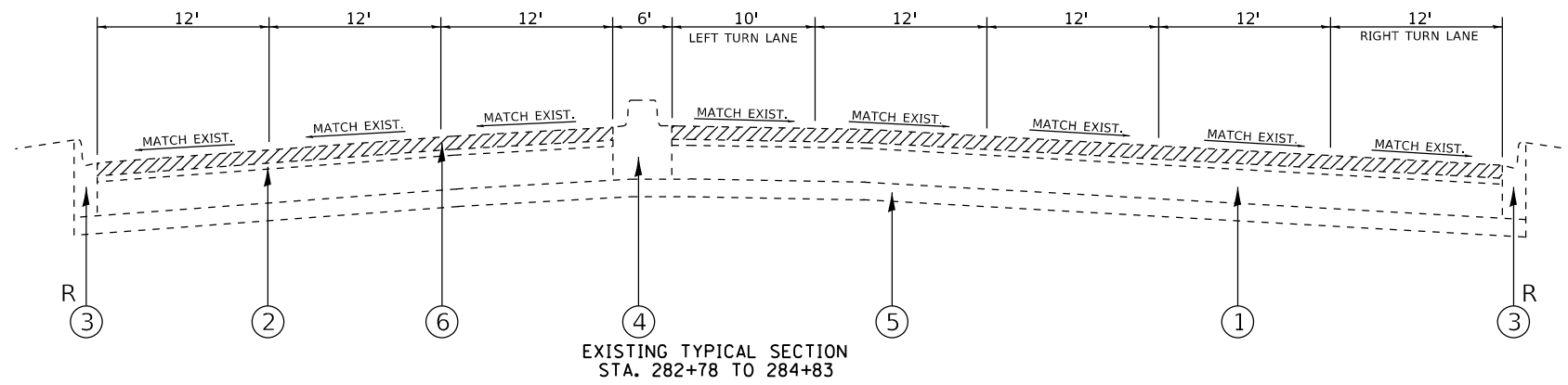
- LEGEND:**
- ① EXISTING P.C.C. PAVEMENT ±9"
  - ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
  - ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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  - ⑥ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
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  - R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)

FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN -	REVISED -		<b>FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)</b>			1548 & 1549	1548/1549 22 RESURFACE	COOK	76	14
		CHECKED -	REVISED -		SCALE: NONE    SHEET NO. 1 OF 1 SHEETS    STA. TO STA.			CONTRACT NO. 62R71				
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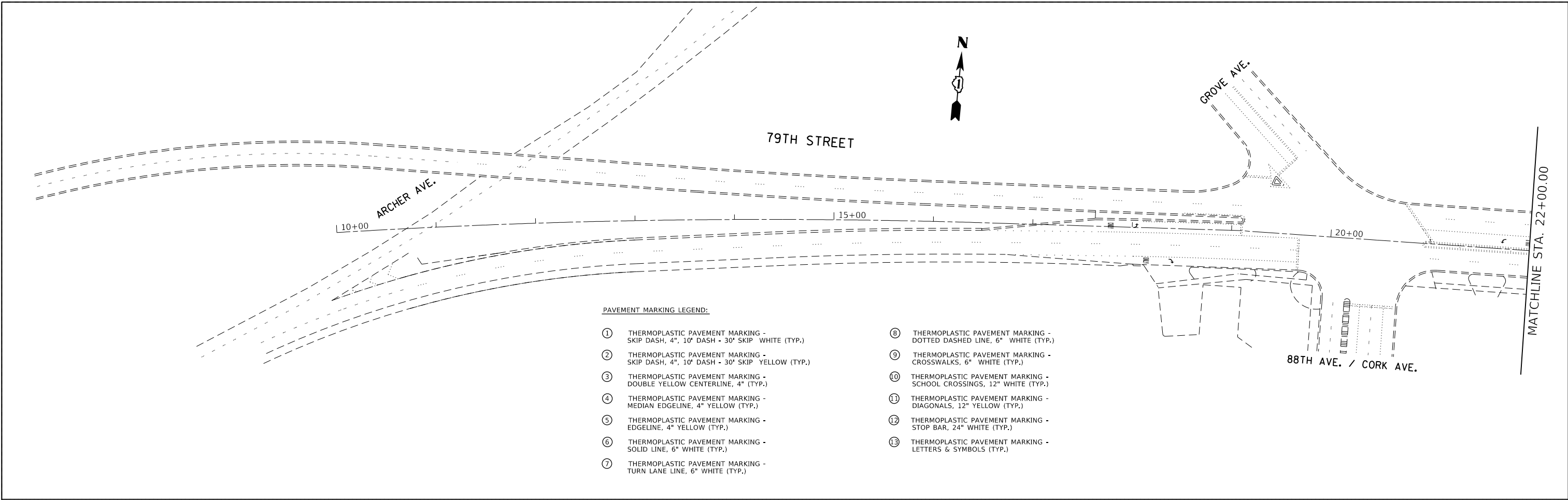


**LEGEND:**

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- ② EXISTING HOT-MIX ASPHALT SURFACE ±4"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- R CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN -	REVISED -		<b>FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)</b>			1548 & 1549	1548/1549 22 RESURFACE	COOK	76	15
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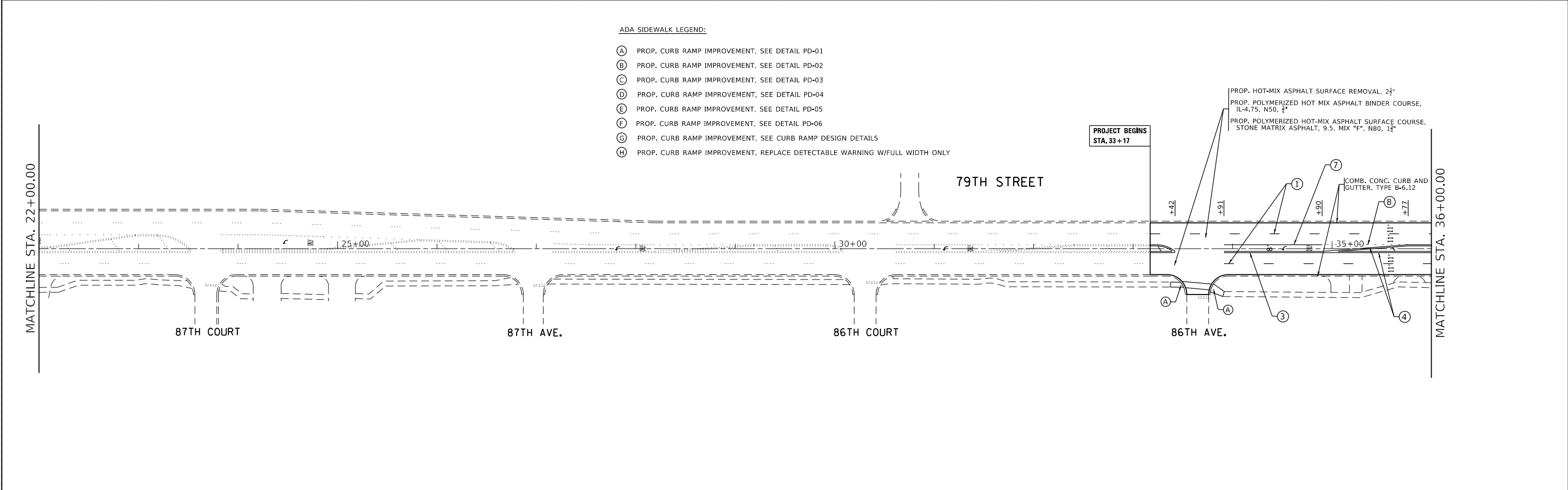


**PAVEMENT MARKING LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)
- ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.)
- ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)
- ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)
- ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)
- ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

**ADA SIDEWALK LEGEND:**

- (A) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01
- (B) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02
- (C) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03
- (D) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04
- (E) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05
- (F) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06
- (G) PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS
- (H) PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY



MODEL NUMBER: M11M15  
FILE NAME: 871115

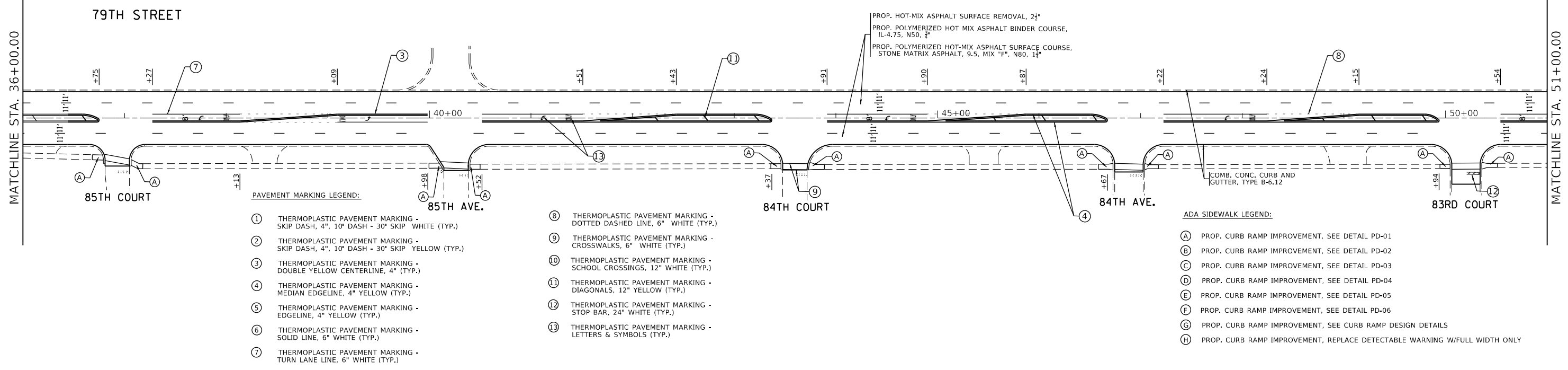
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PLOT DATE = 5/24/25	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

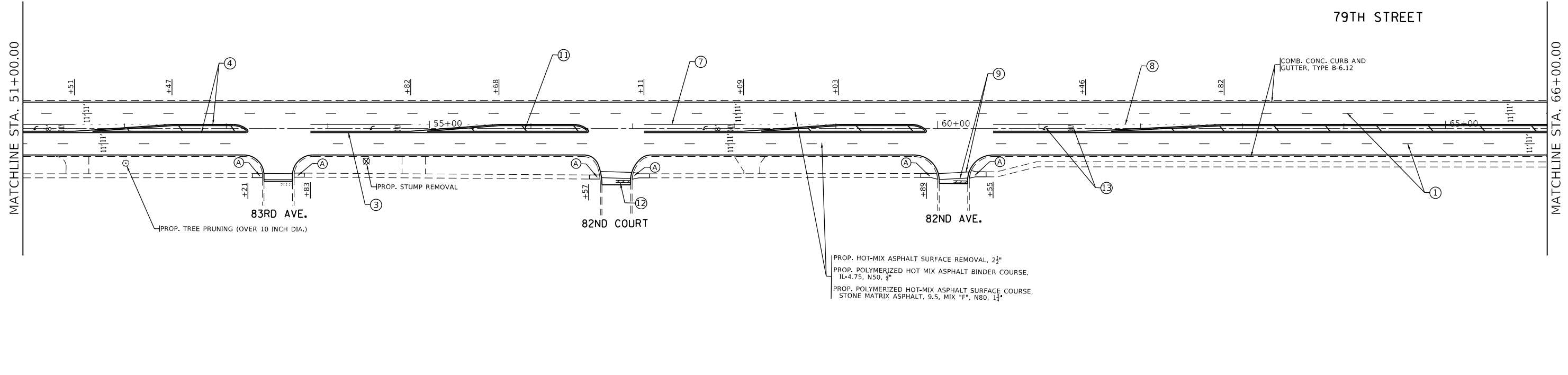
F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62R71	



- PAVEMENT MARKING LEGEND:**
- ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)
  - ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.)
  - ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)
  - ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)
  - ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)
  - ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)

- ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)
- ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)
- ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

- ADA SIDEWALK LEGEND:**
- Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01
  - Ⓑ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02
  - Ⓒ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03
  - Ⓓ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04
  - Ⓔ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05
  - Ⓕ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06
  - Ⓖ PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS
  - Ⓗ PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY



PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1/2"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/4"

MODEL NUMBER: MAMTFS  
FILE NAME: 811E15

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

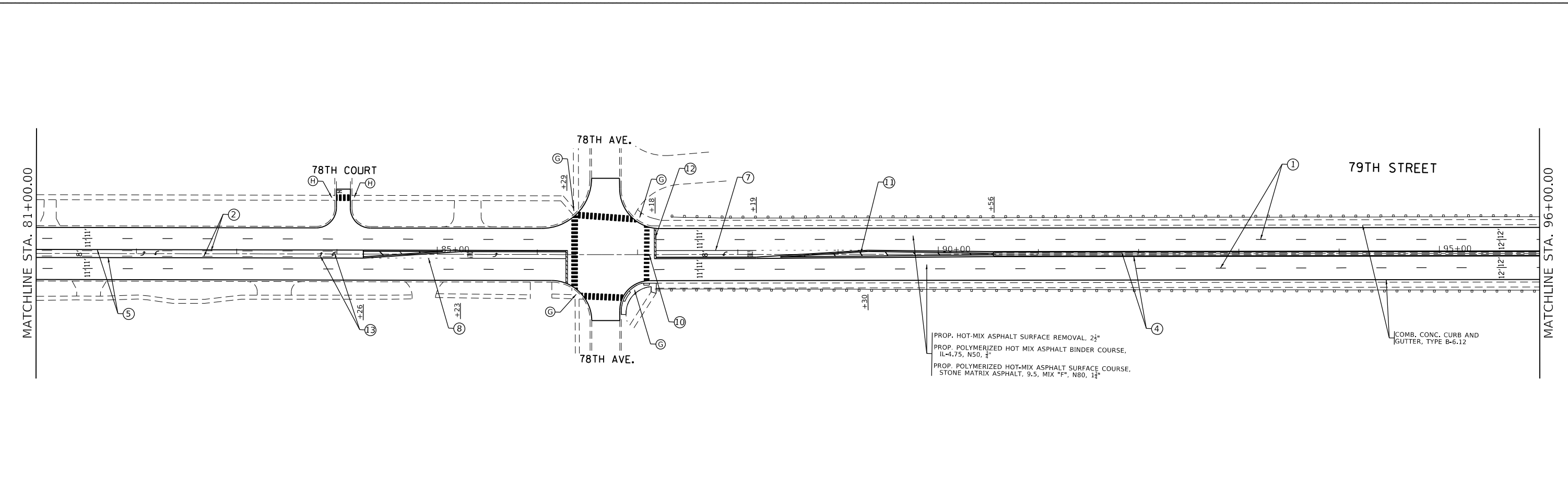
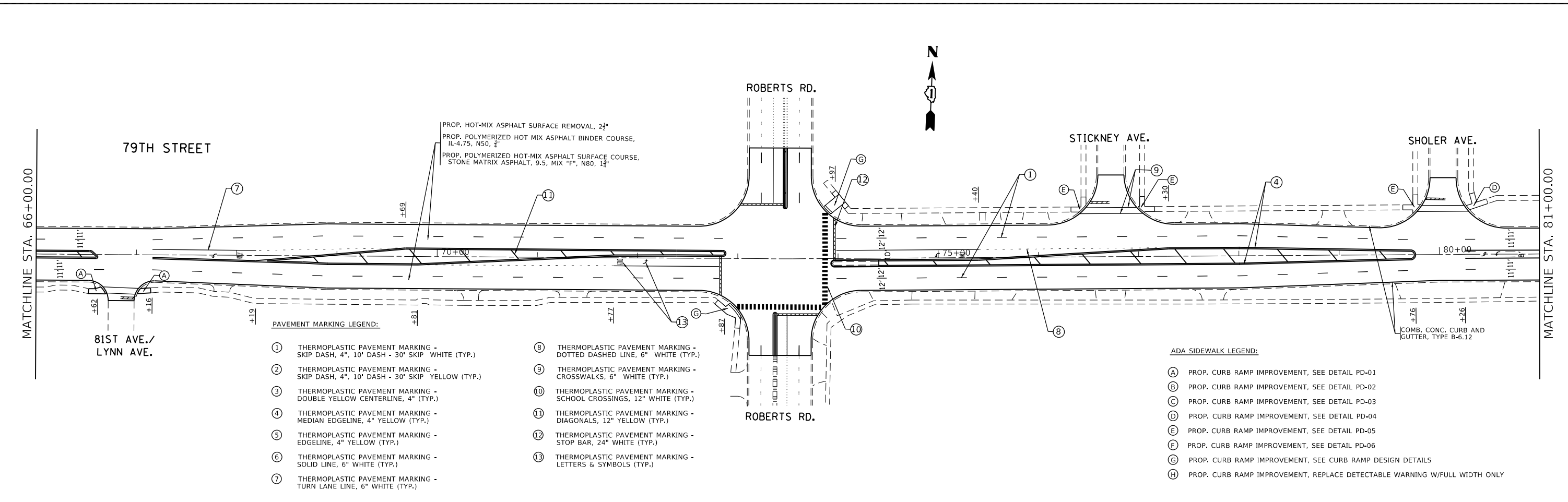
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**

**79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	17
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



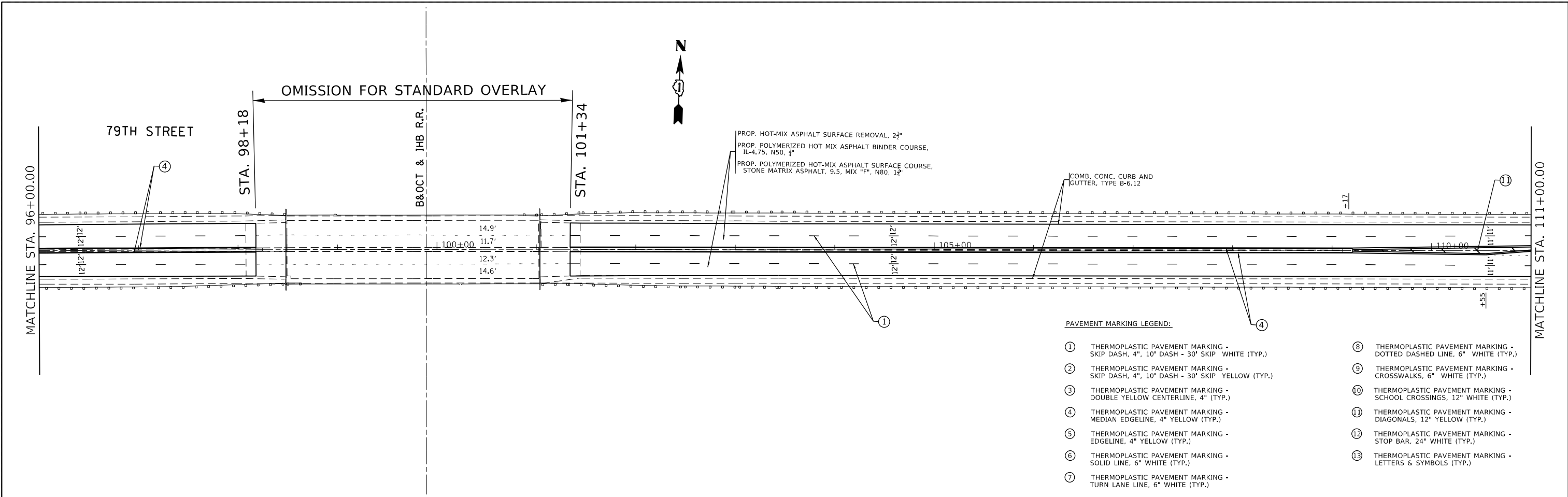
MODEL NUMBER: MAMTMS  
FILE NAME: 811215

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8"=1'	DRAWN -	REVISED -
PLOT DATE = 5/20/25	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

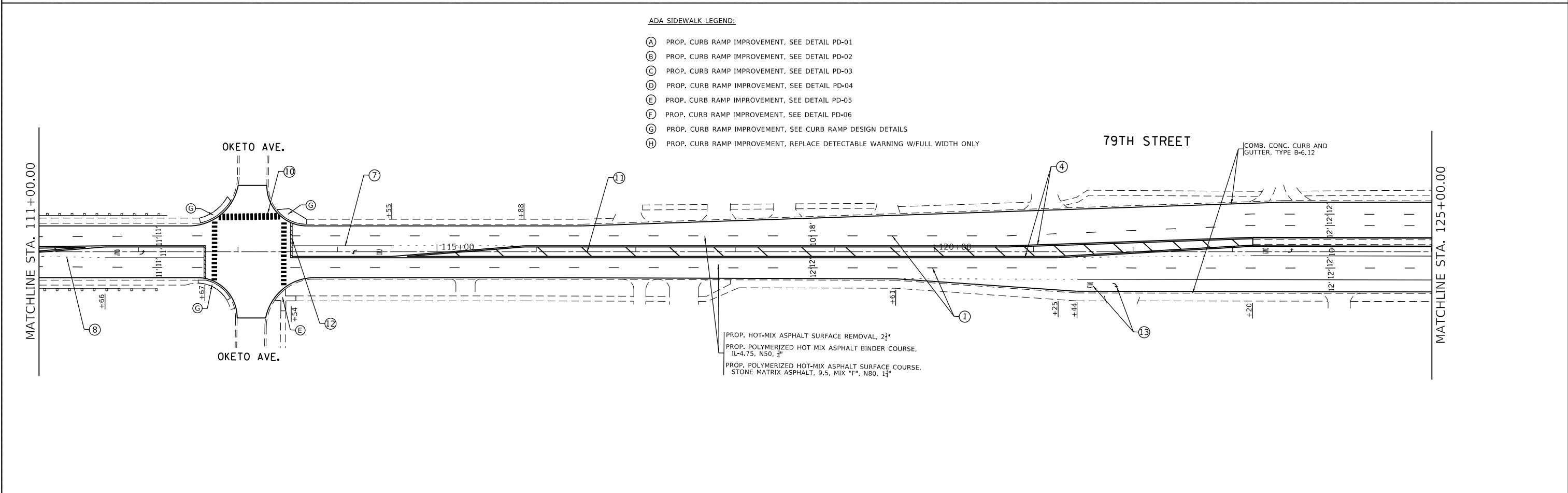
<b>ROADWAY PLAN</b>			
<b>79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 18
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



- PAVEMENT MARKING LEGEND:**
- ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)
  - ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.)
  - ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)
  - ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)
  - ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)
  - ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)
  - ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.)
  - ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)
  - ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)
  - ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)
  - ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)
  - ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

- ADA SIDEWALK LEGEND:**
- (A) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01
  - (B) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02
  - (C) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03
  - (D) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04
  - (E) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05
  - (F) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06
  - (G) PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS
  - (H) PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY



MODEL NUMBER: MAM15  
FILE NAME: 62R71

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

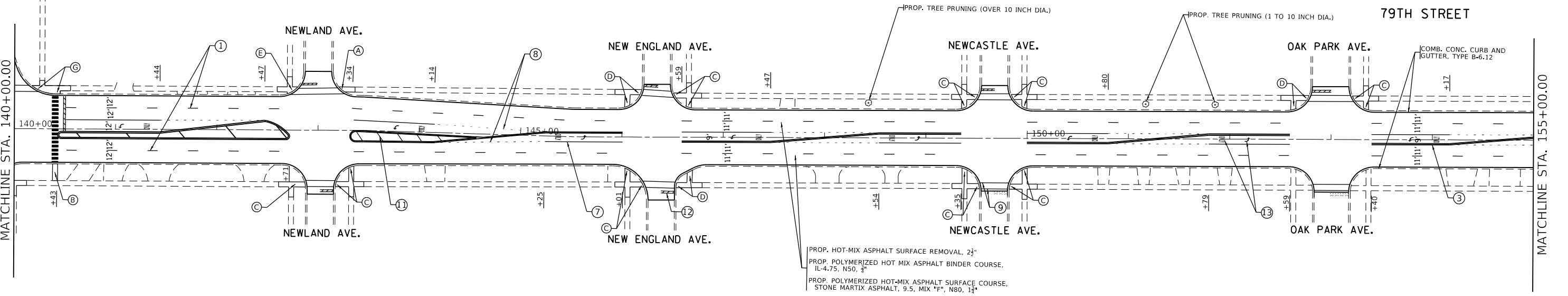
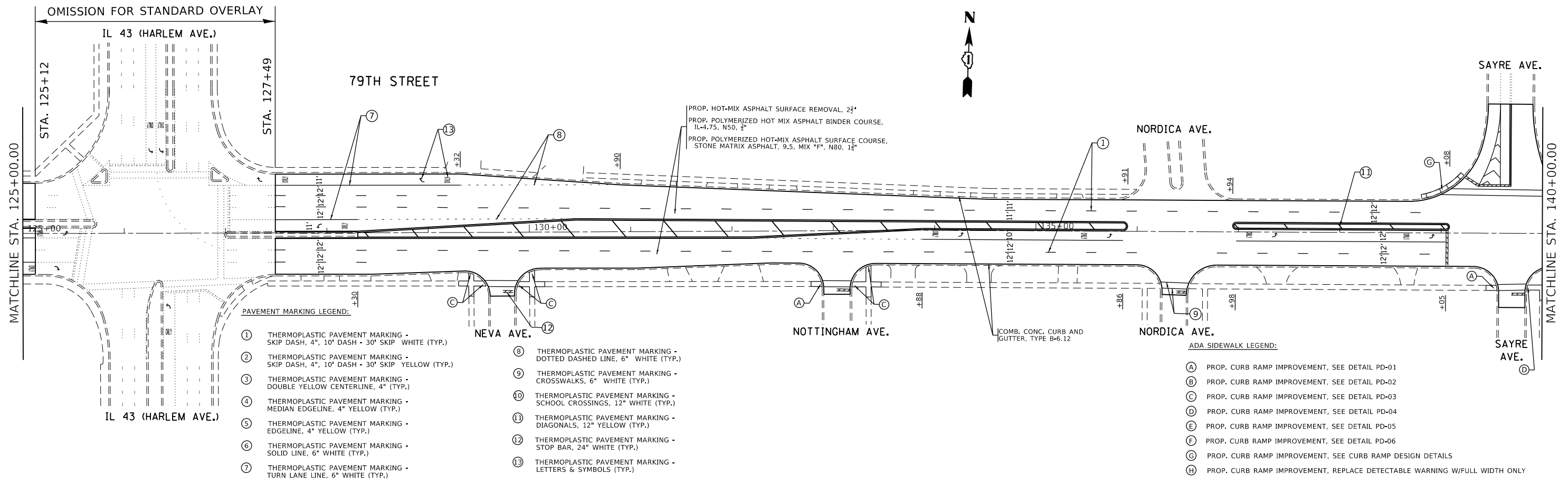
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62R71	





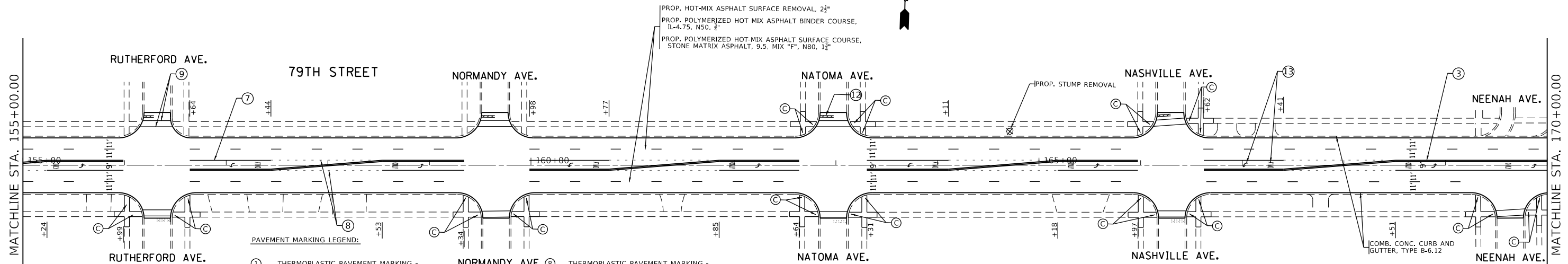
MODEL: MODEL\MAMTFS  
FILE NAME: 811E15

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN  
79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))  
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 20
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND:**

- |   |  |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)  | ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.) |
| ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.) | ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)         |
| ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)              | ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)  |
| ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)                | ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)        |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)                       | ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)          |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)                      | ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)            |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)                  |  |

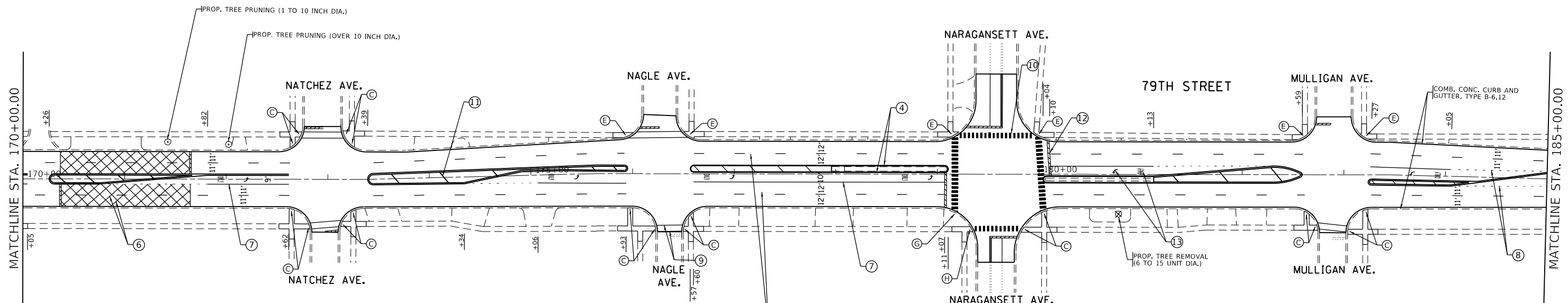
**ADA SIDEWALK LEGEND:**

- |   |
|---|
| (A) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01                             |
| (B) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02                             |
| (C) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03                             |
| (D) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04                             |
| (E) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05                             |
| (F) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06                             |
| (G) PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS                 |
| (H) PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY |

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-4.75, NS0, 3"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/2"

PROP. STUMP REMOVAL

COMB. CONC. CURB AND GUTTER, TYPE B-6.12



PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-4.75, NS0, 3"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/2"

PROP. TREE PRUNING (1 TO 10 INCH DIA.)  
 PROP. TREE PRUNING (OVER 10 INCH DIA.)

PROP. TREE REMOVAL (6 TO 15 UNIT DIA.)

MODEL NUMBER: MAM15  
 FILE NAME: 811E15

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/32"=1'	DRAWN -	REVISED -
PLOT DATE = 5/24/15	CHECKED -	REVISED -
	DATE -	REVISED -

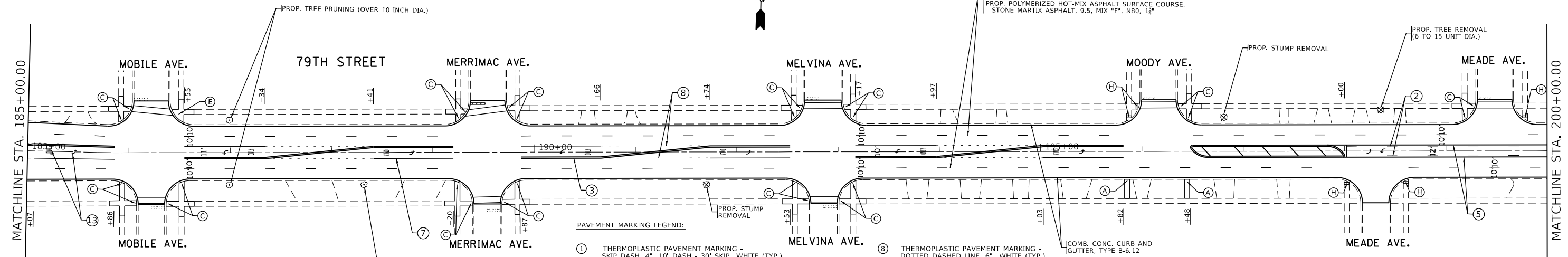
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>	
<b>79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 21
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE,  
 IL-4.75, N50, 3/4"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
 STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/2"

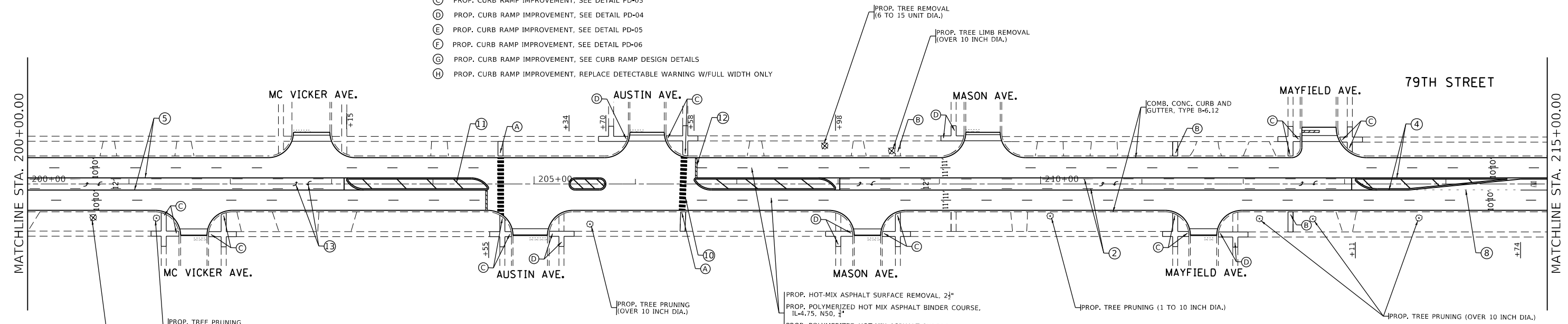


**PAVEMENT MARKING LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)
- ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.)
- ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)
- ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)
- ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)
- ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

**ADA SIDEWALK LEGEND:**

- A PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01
- B PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02
- C PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03
- D PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04
- E PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05
- F PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06
- G PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS
- H PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY



PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE,  
 IL-4.75, N50, 3/4"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
 STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/2"

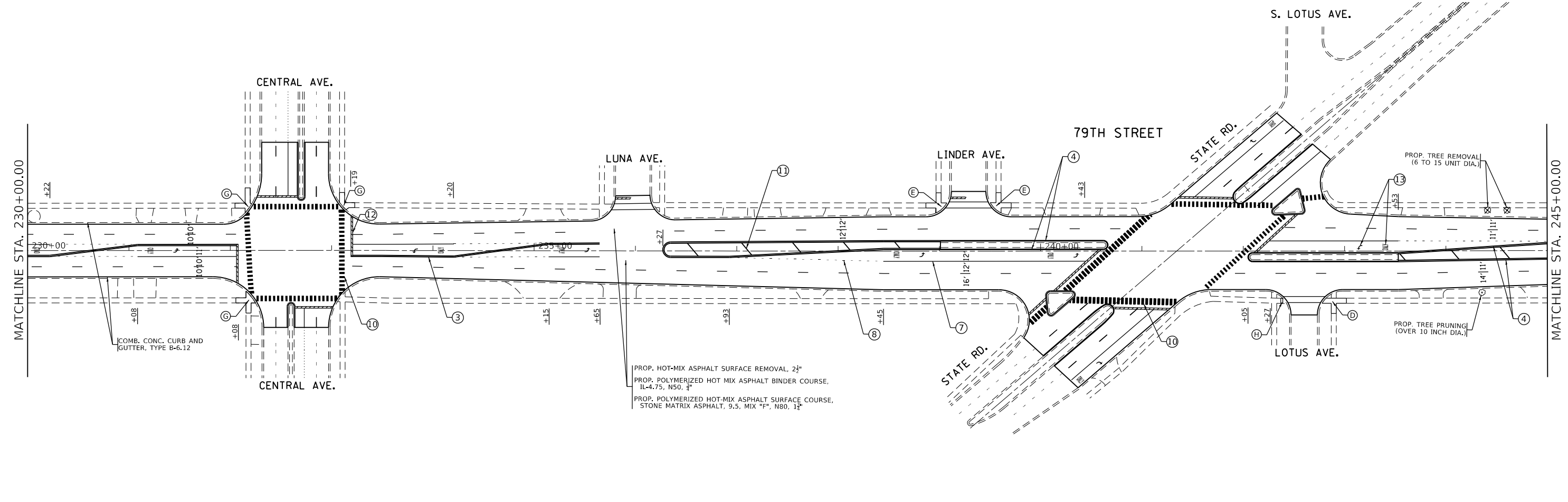
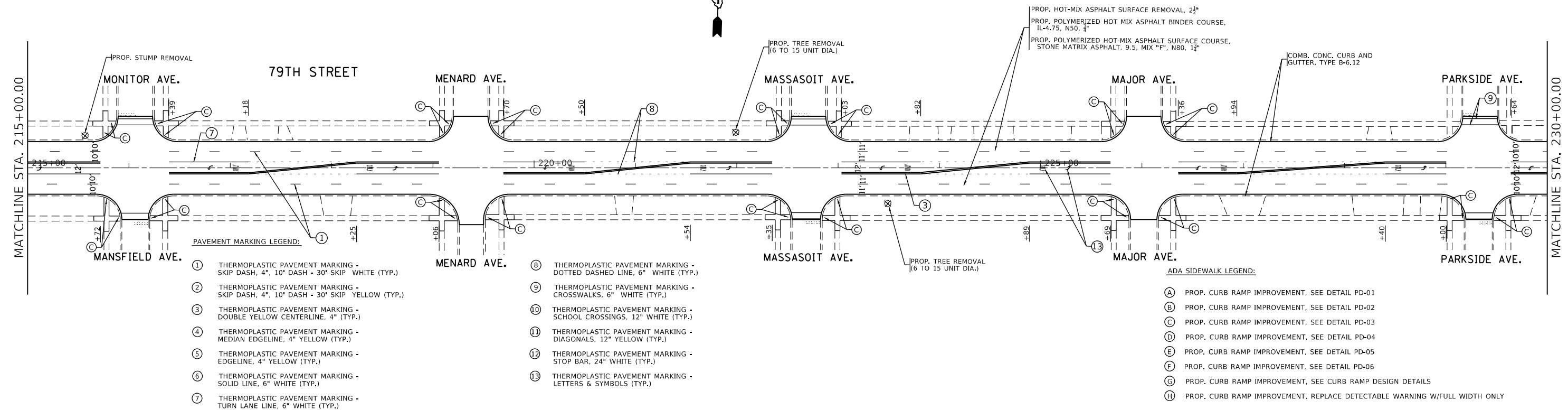
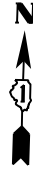
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FILE NAME: 811515

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PLOT SCALE = 5SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>	
<b>79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 22
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



MODEL NUMBER: MAM15  
FILE NAME: 811E15

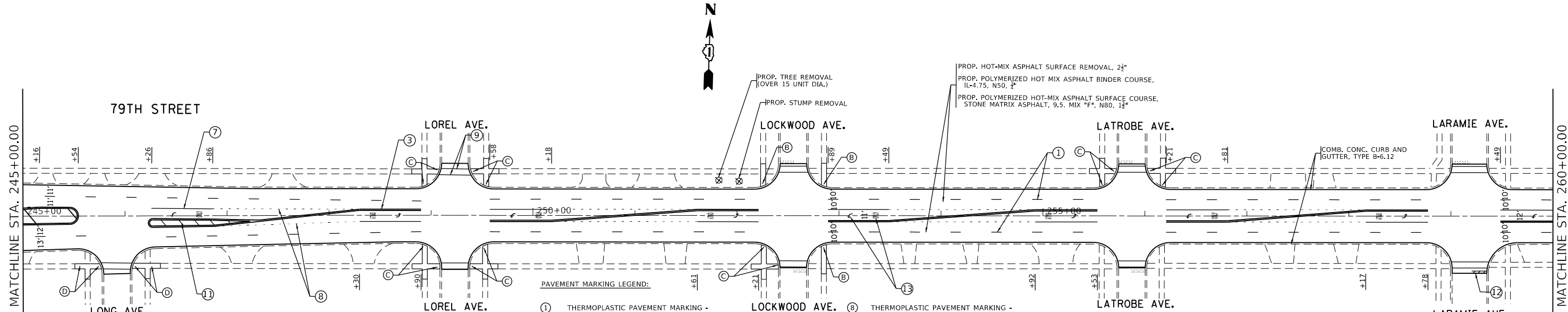
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PLOT SCALE = 5SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

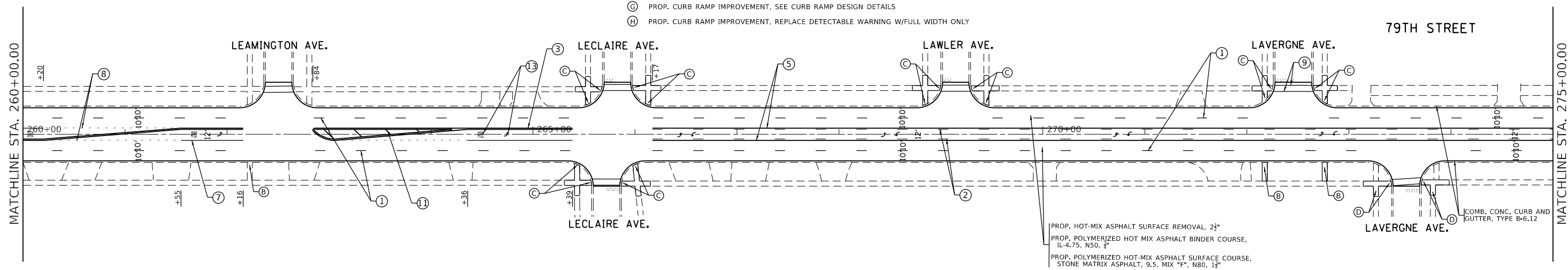
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 23
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 62R71



- PAVEMENT MARKING LEGEND:**
- ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)
  - ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.)
  - ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)
  - ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)
  - ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)
  - ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)
  - ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.)
  - ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)
  - ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)
  - ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)
  - ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)
  - ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

- ADA SIDEWALK LEGEND:**
- (A) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01
  - (B) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02
  - (C) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03
  - (D) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04
  - (E) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05
  - (F) PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06
  - (G) PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS
  - (H) PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY



PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"  
 PROP. POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"  
 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 1/4"

MODEL NUMBER: MAM15  
FILE NAME: 811E15

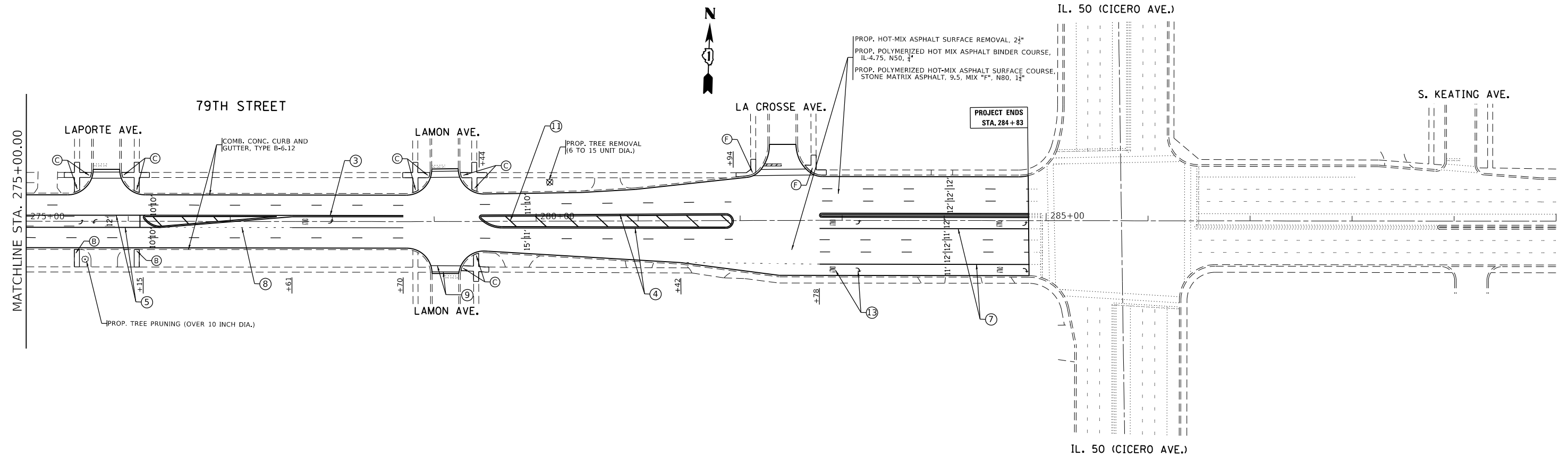
USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/32"=1'	DRAWN -	REVISED -
PLOT DATE = 5/24/25	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))**  
 SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 24
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				





**PAVEMENT MARKING LEGEND:**

- |   |  |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP WHITE (TYP.)  | ⑧ THERMOPLASTIC PAVEMENT MARKING - DOTTED DASHED LINE, 6" WHITE (TYP.) |
| ② THERMOPLASTIC PAVEMENT MARKING - SKIP DASH, 4", 10' DASH - 30' SKIP YELLOW (TYP.) | ⑨ THERMOPLASTIC PAVEMENT MARKING - CROSSWALKS, 6" WHITE (TYP.)         |
| ③ THERMOPLASTIC PAVEMENT MARKING - DOUBLE YELLOW CENTERLINE, 4" (TYP.)              | ⑩ THERMOPLASTIC PAVEMENT MARKING - SCHOOL CROSSINGS, 12" WHITE (TYP.)  |
| ④ THERMOPLASTIC PAVEMENT MARKING - MEDIAN EDGELINE, 4" YELLOW (TYP.)                | ⑪ THERMOPLASTIC PAVEMENT MARKING - DIAGONALS, 12" YELLOW (TYP.)        |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - EDGELINE, 4" YELLOW (TYP.)                       | ⑫ THERMOPLASTIC PAVEMENT MARKING - STOP BAR, 24" WHITE (TYP.)          |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - SOLID LINE, 6" WHITE (TYP.)                      | ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)            |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - TURN LANE LINE, 6" WHITE (TYP.)                  |  |

**ADA SIDEWALK LEGEND:**

- |   |
|---|
| Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-01                             |
| Ⓑ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-02                             |
| Ⓒ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-03                             |
| Ⓓ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-04                             |
| Ⓔ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-05                             |
| Ⓕ PROP. CURB RAMP IMPROVEMENT, SEE DETAIL PD-06                             |
| Ⓖ PROP. CURB RAMP IMPROVEMENT, SEE CURB RAMP DESIGN DETAILS                 |
| Ⓗ PROP. CURB RAMP IMPROVEMENT, REPLACE DETECTABLE WARNING W/FULL WIDTH ONLY |

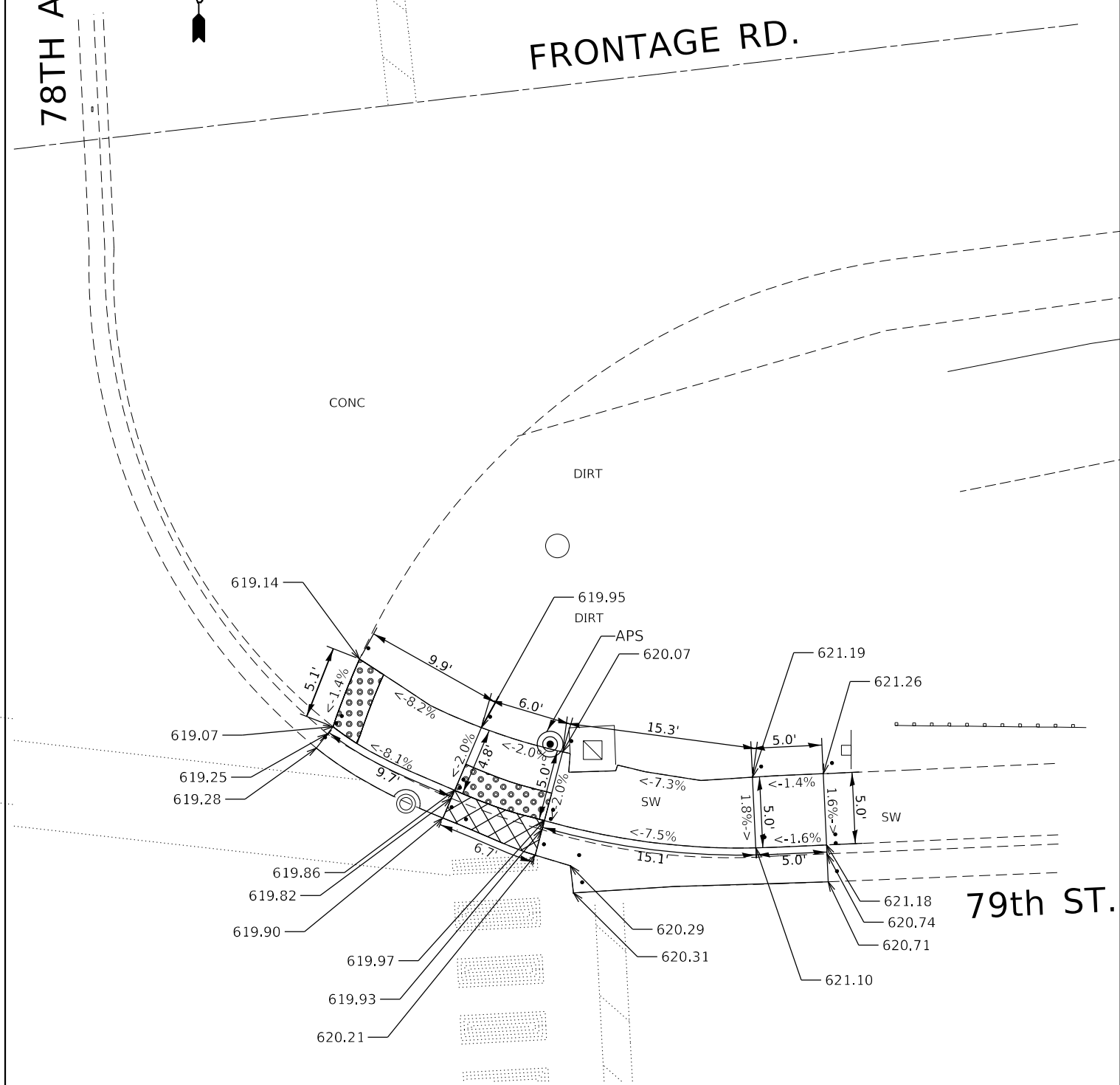
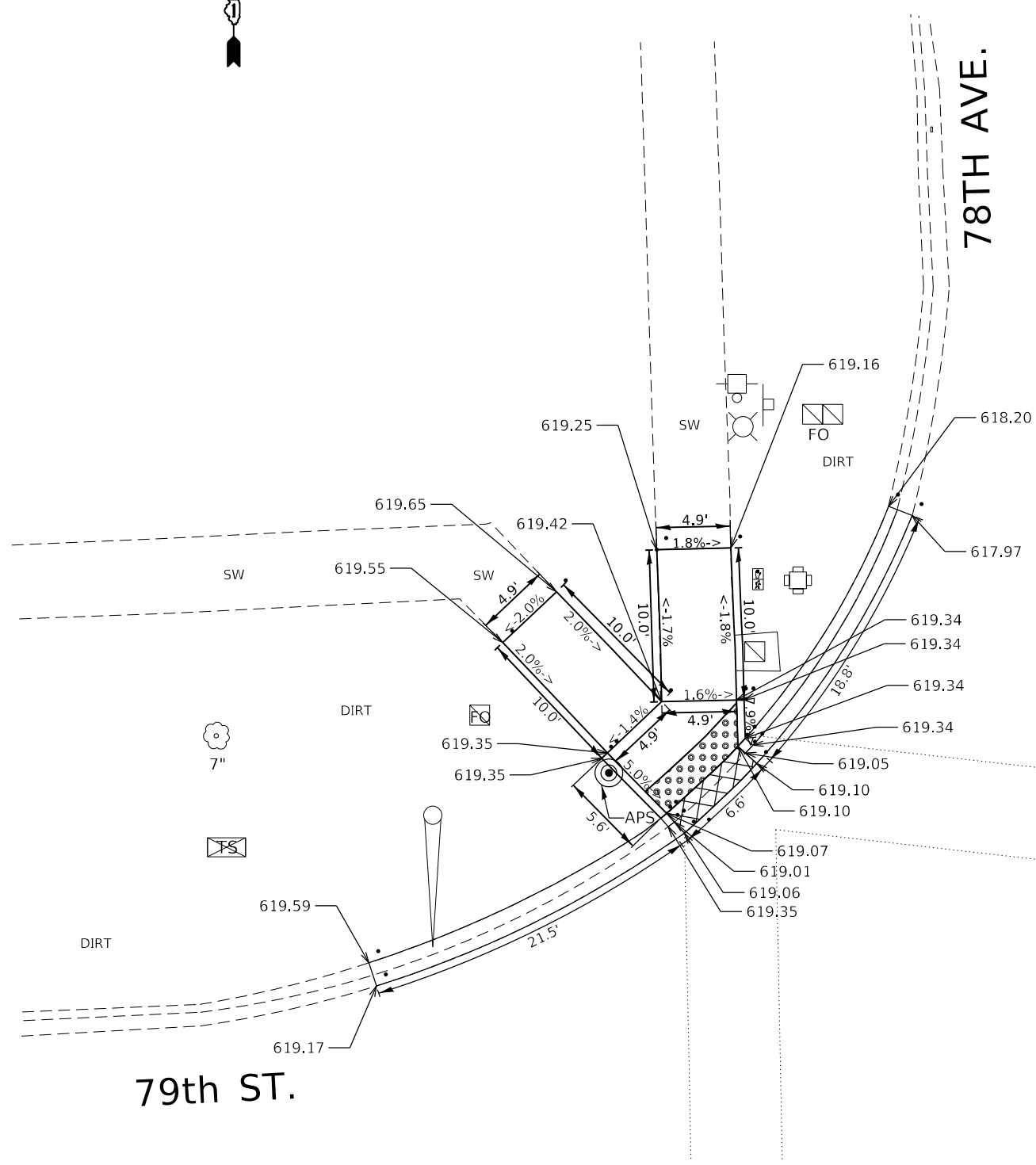
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FILE NAME: 811113

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PLOT SCALE = 5SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>	
<b>79TH ST (WB CONNECTOR IL 171 (ARCHER AVE) TO IL 50 (CICERO AVE))</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	25
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCH MARK ELEV 620.53  
 BENCHMARK : SET X ON TOP OF BASE ARM  
 LOCATION : BASE ARM AT SW CORNER OF 79TH ST. AND 78TH AVE.

**LEGEND**

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

REFERENCE BENCH MARK ELEV 620.53  
 BENCHMARK : SET X ON TOP OF BASE ARM  
 LOCATION : BASE ARM AT SW CORNER OF 79TH ST. AND 78TH AVE.

MODEL NUMBER: 1548  
FILE NAME: 1548

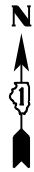
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PLOT SCALE = 5/8"=1'	DRAWN -	REVISED -
PLOT DATE = 5/20/15	CHECKED -	REVISED -
	DATE -	REVISED -

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

**ADA SIDEWALK PLANS (79TH ST. AT 78TH AVE.—NW & NE CORNERS)**  
**FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**

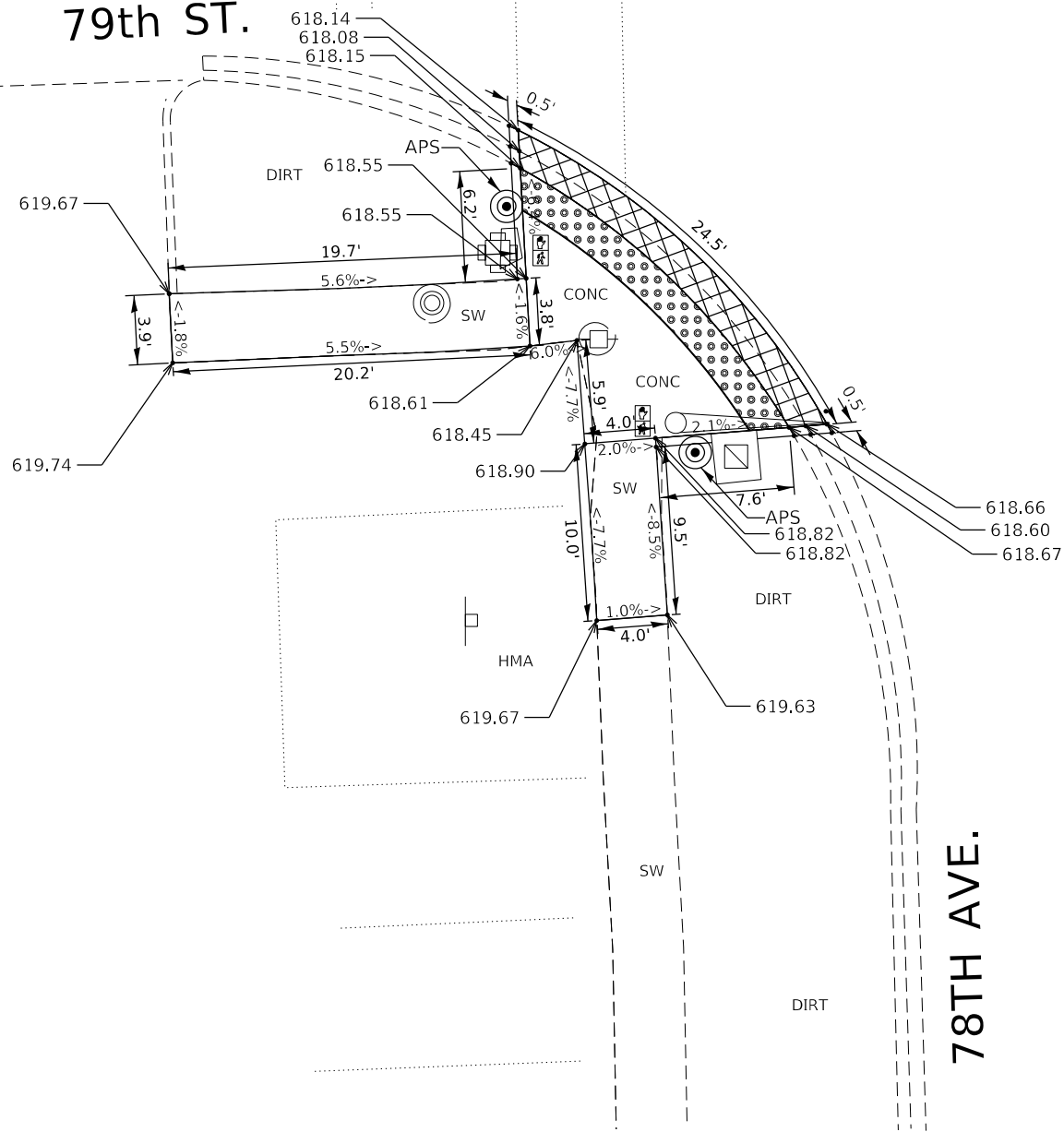
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 26
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET OF SHEETS STA. TO STA.



79th ST.

HMA  
C.E.



REFERENCE BENCH MARK ELEV 620.53  
 BENCHMARK : SET X ON TOP OF BASE ARM  
 LOCATION : BASE ARM AT SW CORNER OF 79TH ST. AND 78TH AVE.

**LEGEND**

xx.xx'

EXISTING LENGTH

==

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
 REPLACE W/TOPSOIL & SOD

REFERENCE BENCH MARK ELEV 620.53  
 BENCHMARK : SET X ON TOP OF BASE ARM  
 LOCATION : BASE ARM AT SW CORNER OF 79TH ST. AND 78TH AVE.

MODEL: MODEL\MAMIES  
 FILE NAME: 311215

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5SCALES	CHECKED -	REVISED -
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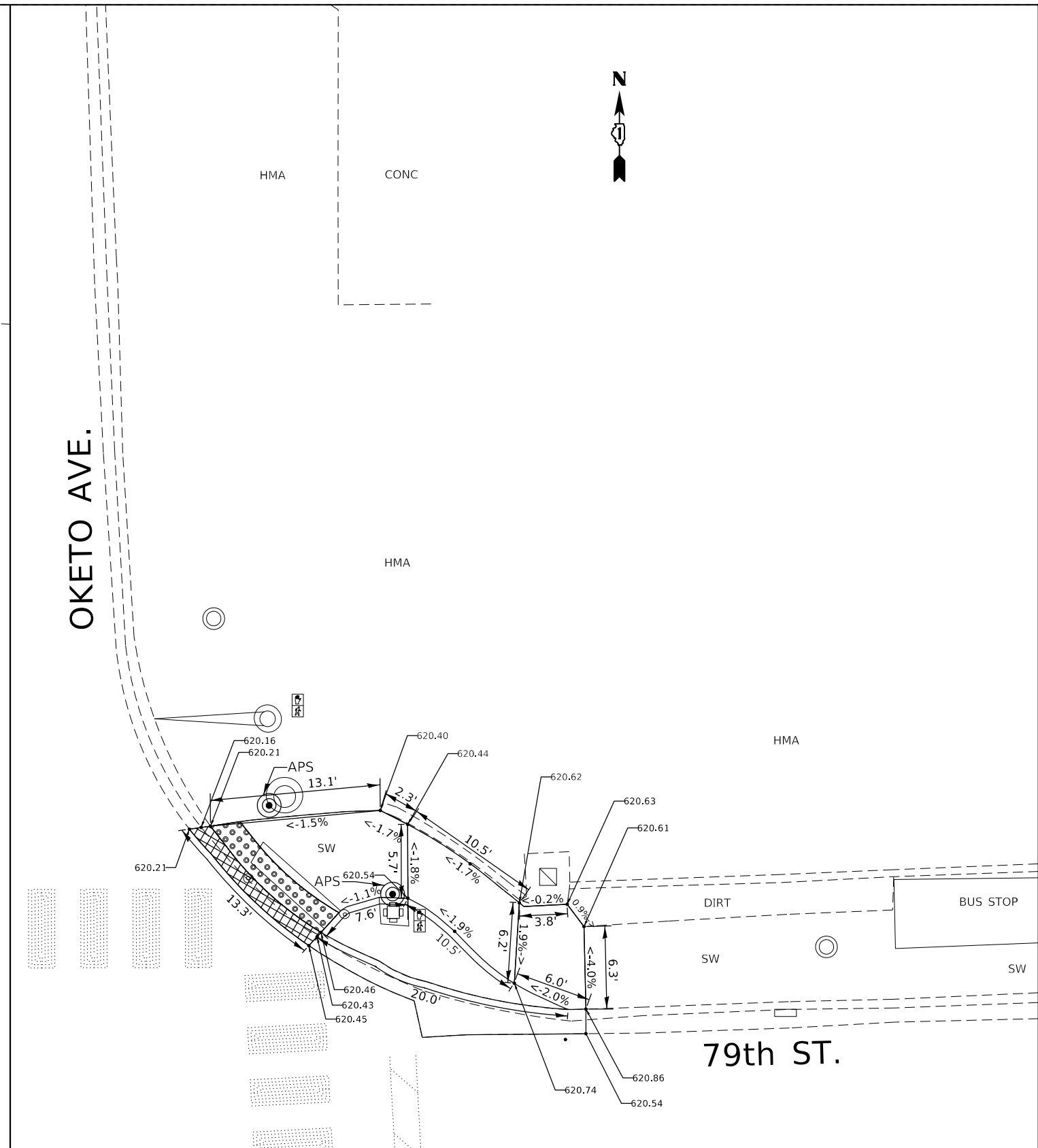
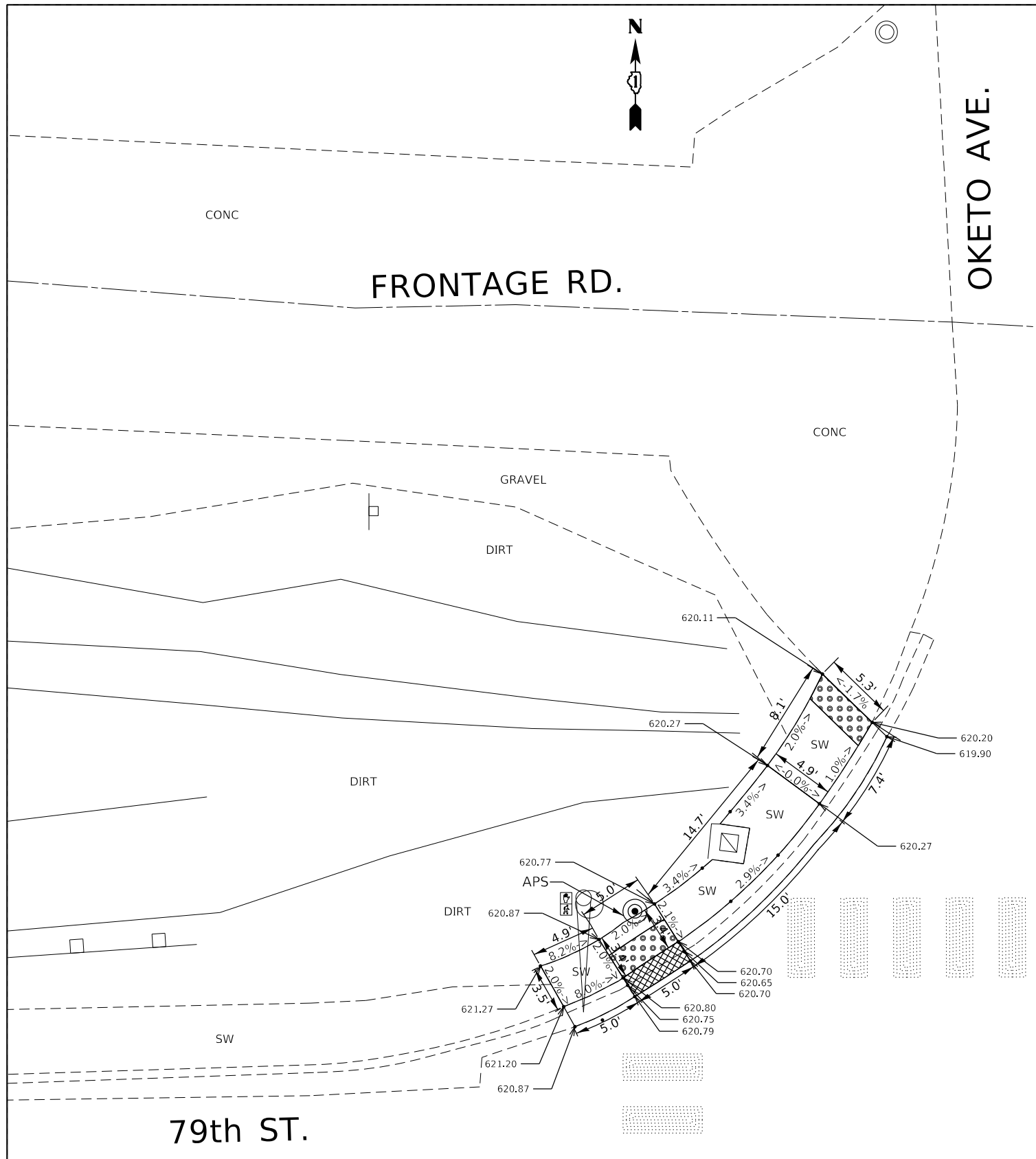
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA SIDEWALK PLANS (79TH ST. AT 78TH AVE.—SW CORNER)  
 FAU 1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 27
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 62R71



REFERENCE BENCH MARK ELEV 620.75

BENCHMARK : SET X ON WEST FACE OF TRAFFIC SIGNAL BASE

LOCATION : TRAFFIC SIGNAL BASE AT NE CORNER OF 79TH ST. AND OKETO AVE.

**LEGEND**

xx.xx'

EXISTING LENGTH

====

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCH MARK ELEV 620.75

BENCHMARK : SET X ON WEST FACE OF TRAFFIC SIGNAL BASE

LOCATION : TRAFFIC SIGNAL BASE AT NE CORNER OF 79TH ST. AND OKETO AVE.

MODEL NUMBER: MAMTFS  
FILE NAME: 311215

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/32"=1'	DRAWN -	REVISED -
PLOT DATE = 5/24/23	CHECKED -	REVISED -
	DATE -	REVISED -

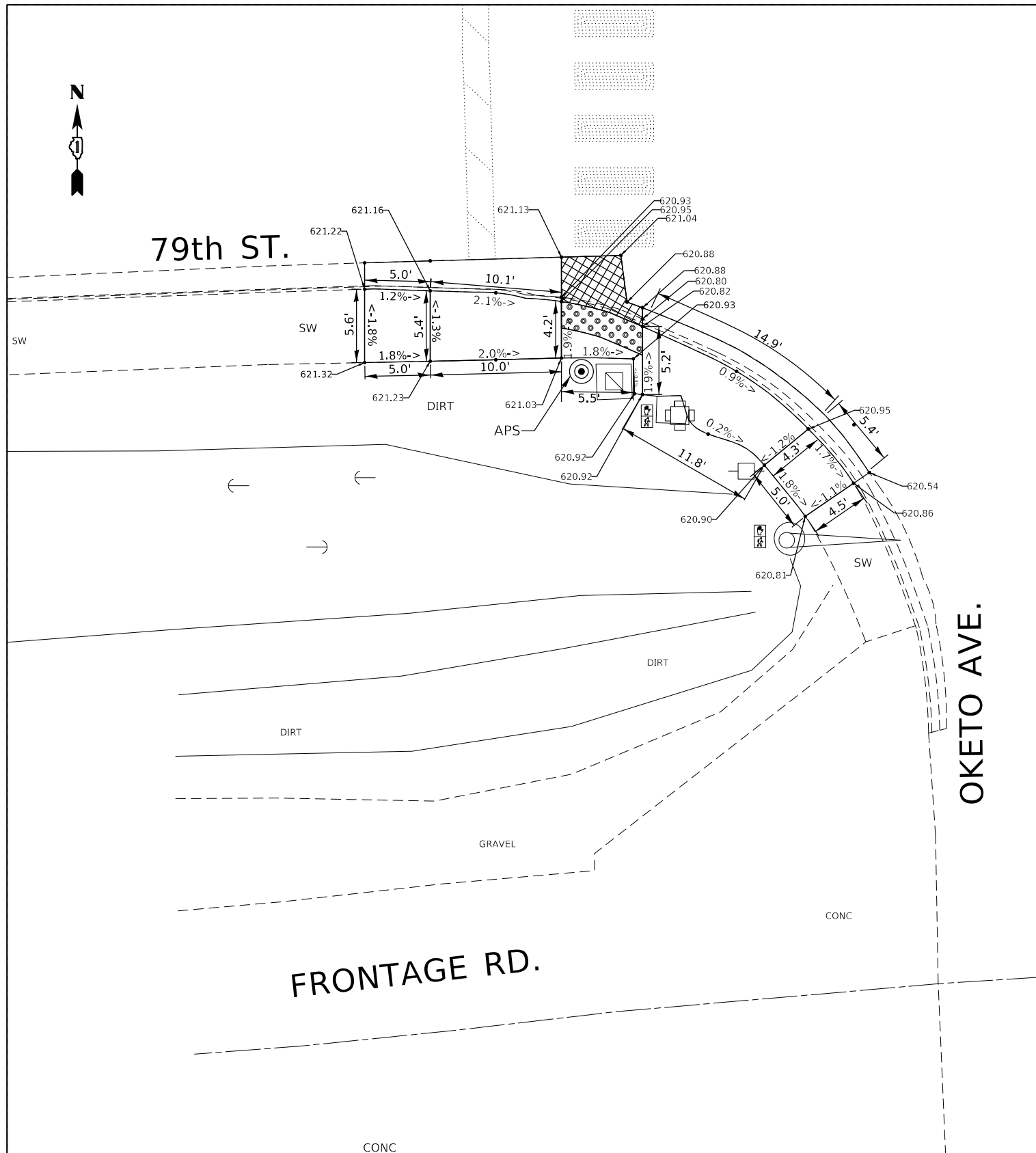
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA SIDEWALK PLANS (79TH ST. AT OKETO AVE.—NW & NE CORNERS)  
1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 28
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 62R71



OKETO AVE.

79th ST.

FRONTAGE RD.

REFERENCE BENCH MARK ELEV 620.75  
 BENCHMARK : SET X ON WEST FACE OF TRAFFIC SIGNAL BASE  
 LOCATION : TRAFFIC SIGNAL BASE AT NE CORNER OF 79TH ST. AND OKETO AVE.

**LEGEND**

xx.xx'

EXISTING LENGTH

==

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCH MARK ELEV 620.75  
 BENCHMARK : SET X ON WEST FACE OF TRAFFIC SIGNAL BASE  
 LOCATION : TRAFFIC SIGNAL BASE AT NE CORNER OF 79TH ST. AND OKETO AVE.

MODEL NAME: MAMIES  
FILE NAME: 811EUS

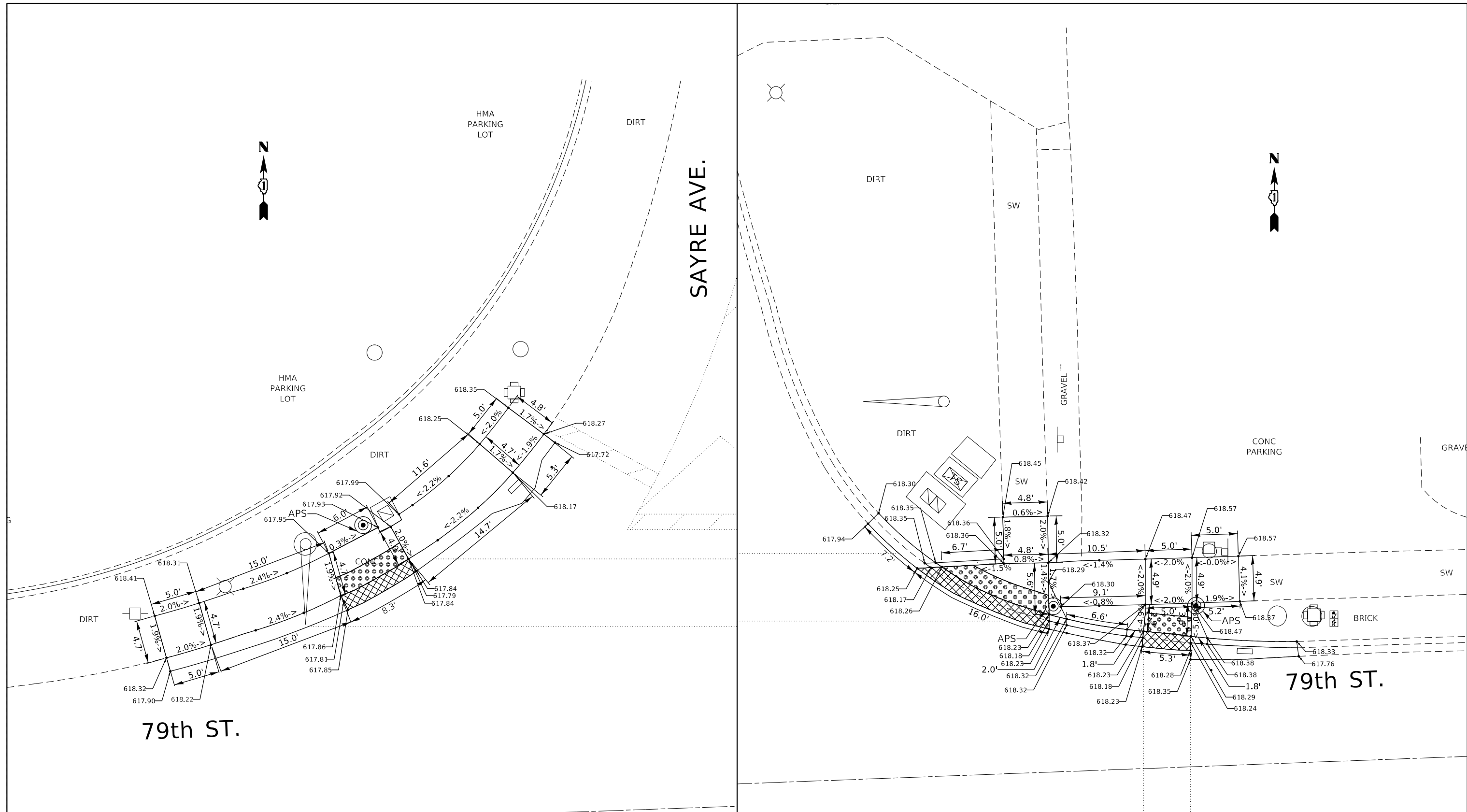
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	DRAWN -	REVISED -
PLOT SCALE = SCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA SIDEWALK PLANS (79TH ST. AT OKETO AVE.—SW CORNER)  
1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548 / 1549	1548/1549 22 RESURFACE	COOK	76	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62R71	



REFERENCE BENCH MARK ELEV 618.88  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX PAD  
 LOCATION : TRAFFIC SIGNAL PAD AT NE CORNER OF 79TH ST. AND SAYRE AVE.

**LEGEND**

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

REFERENCE BENCH MARK ELEV 618.88  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX PAD  
 LOCATION : TRAFFIC SIGNAL PAD AT NE CORNER OF 79TH ST. AND SAYRE AVE.

MODEL: MODELNAME  
FILE NAME: SITE.PLS

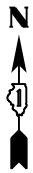
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	DRAWN -	REVISED -	
PLOT SCALE = SCALES	CHECKED -	REVISED -	
PLOT DATE = SDATES	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA SIDEWALK PLANS (79TH ST. AT SAYRE AVE.—NW & NE CORNERS)  
1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**

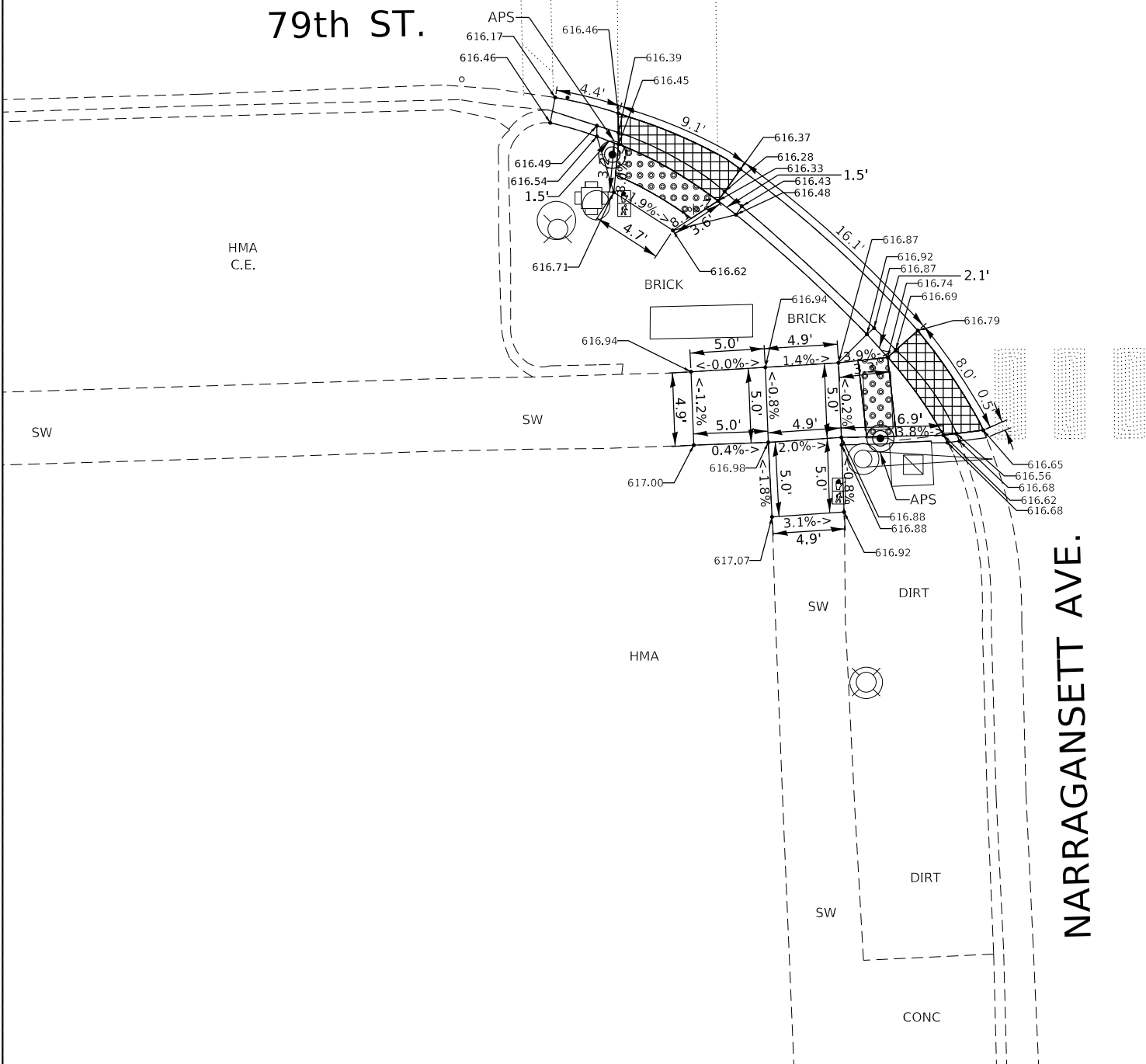
SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

F.A.U. RTE. 1548 1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 30	CONTRACT NO. 62R71
ILLINOIS		FED. AID PROJECT			



79th ST.

NARRAGANSETT AVE.



REFERENCE BENCH MARK ELEV 617.44  
 BENCHMARK : SET X ON EAST FACE OF CONTROL PANEL BASE  
 LOCATION : CONTROL PANEL BASE AT NE CORNER OF 79TH ST. AND NARRAGANSETT AVE.

**LEGEND**

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

REFERENCE BENCH MARK ELEV 617.44  
 BENCHMARK : SET X ON EAST FACE OF CONTROL PANEL BASE  
 LOCATION : CONTROL PANEL BASE AT NE CORNER OF 79TH ST. AND NARRAGANSETT AVE.

MODEL NAME: MAMES  
FILE NAME: 311548

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SSCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

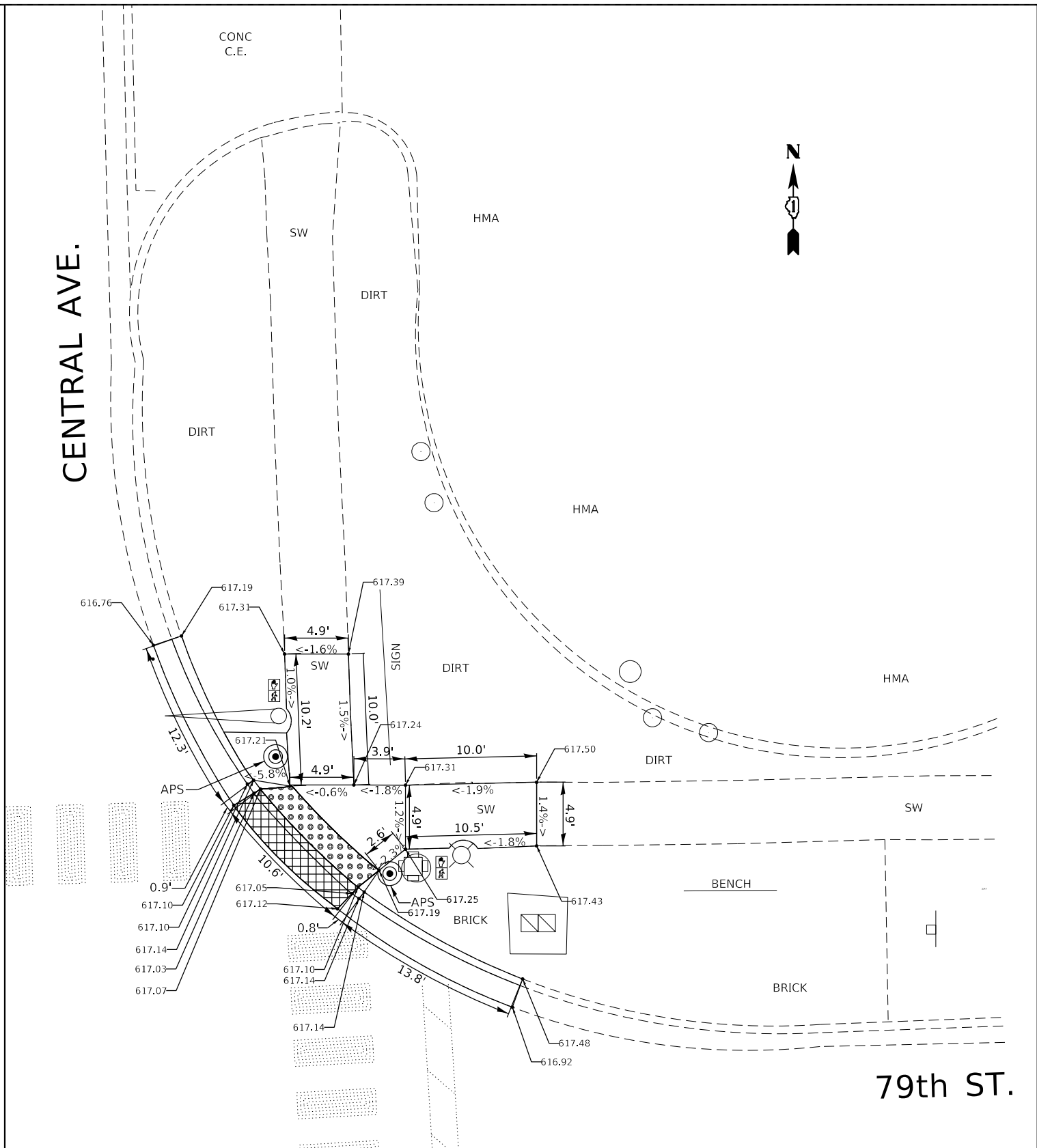
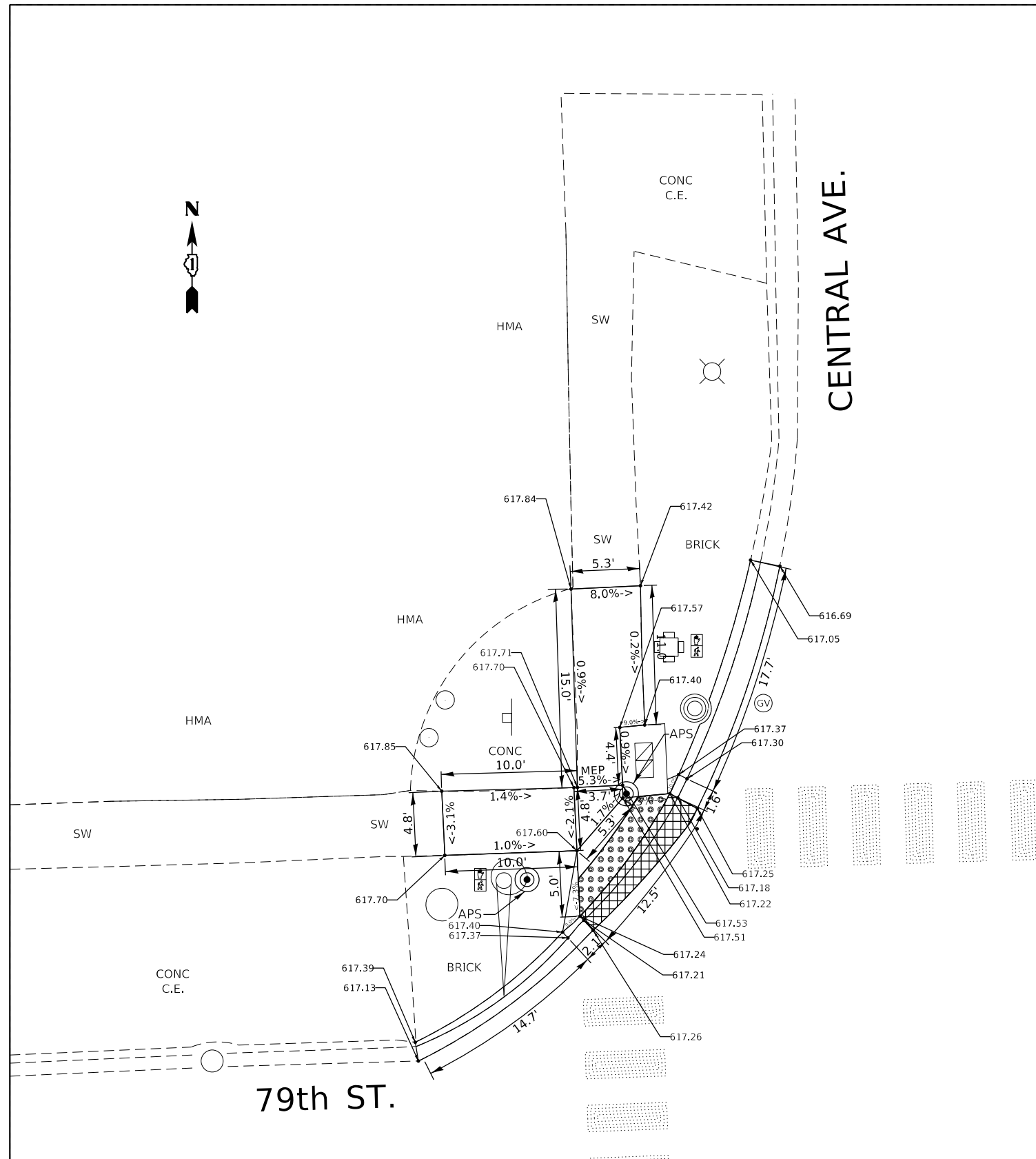
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA SIDEWALK PLANS (79TH ST. AT NARRAGANSETT AVE.—SW CORNERS)  
1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 31
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 62R71



REFERENCE BENCH MARK ELEV 618.02  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX  
 LOCATION : CONTROL BOX AT SW CORNER OF 79TH ST. AND CENTRAL AVE.

**LEGEND**

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

REFERENCE BENCH MARK ELEV 618.02  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX  
 LOCATION : CONTROL BOX AT SW CORNER OF 79TH ST. AND CENTRAL AVE.

MODEL NUMBER: M1548  
FILE NAME: 1548

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5/32"=1'	CHECKED -	REVISED -
PLOT DATE = 5/24/15	DATE -	REVISED -

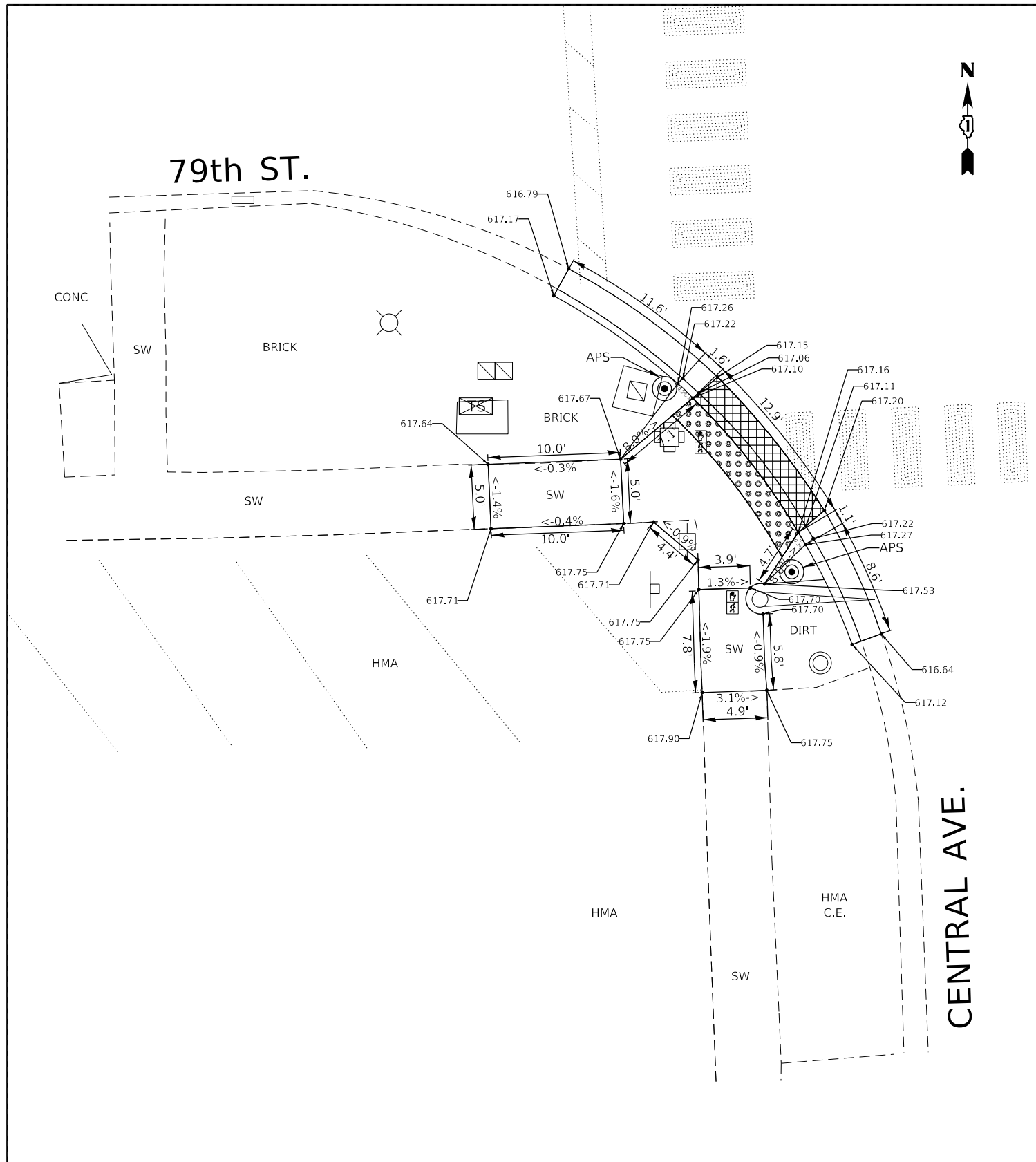
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA SIDEWALK PLANS (79TH ST. AT CENTRAL AVE.—NW & NE CORNERS)  
1548—1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 32
ILLINOIS			FED. AID PROJECT	





CENTRAL AVE.



REFERENCE BENCH MARK ELEV 618.02  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX  
 LOCATION : CONTROL BOX AT SW CORNER OF 79TH ST. AND CENTRAL AVE.

**LEGEND**

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

REFERENCE BENCH MARK ELEV 618.02  
 BENCHMARK : SET X ON NE CORNER OF TRAFFIC SIGNAL CONTROL BOX  
 LOCATION : CONTROL BOX AT SW CORNER OF 79TH ST. AND CENTRAL AVE.

MODEL: MODEL\MAMIES  
FILE NAME: 311E15

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	DRAWN -	REVISED -	
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PLOT DATE = SDATES	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

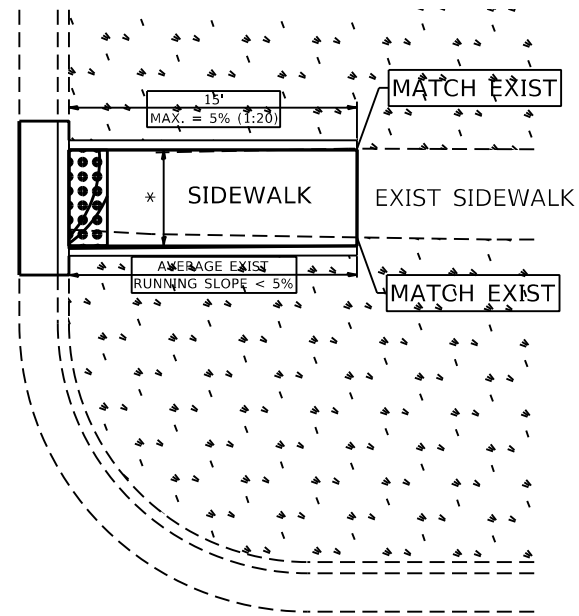
**ADA SIDEWALK PLANS (79TH ST. AT CENTRAL AVE.—SW CORNER)  
1548-1549 (79TH ST.)—IL 171 (ARCHER AVE.) TO IL 50 (CICERO AVE.)**

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

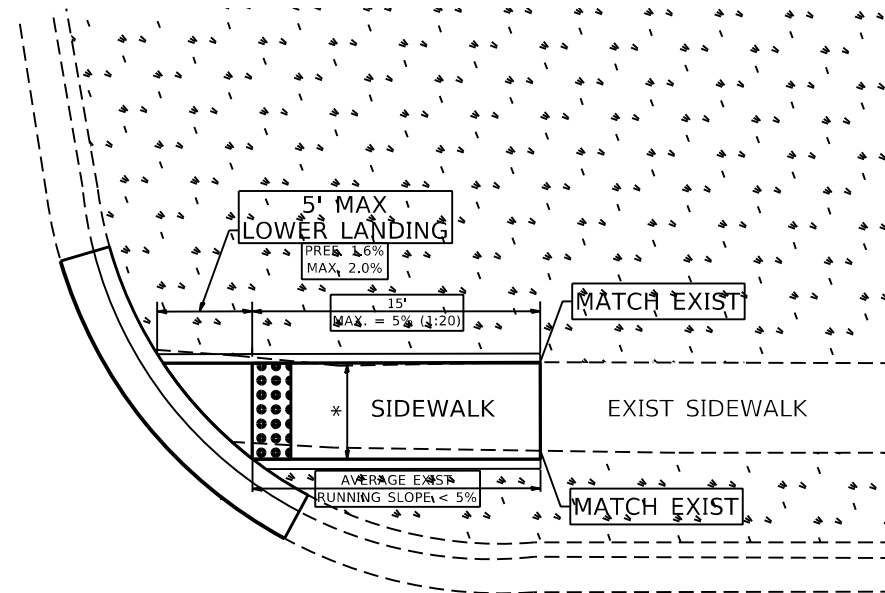
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548 / 1549	1548/1549 22 RESURFACE	COOK	76	33
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

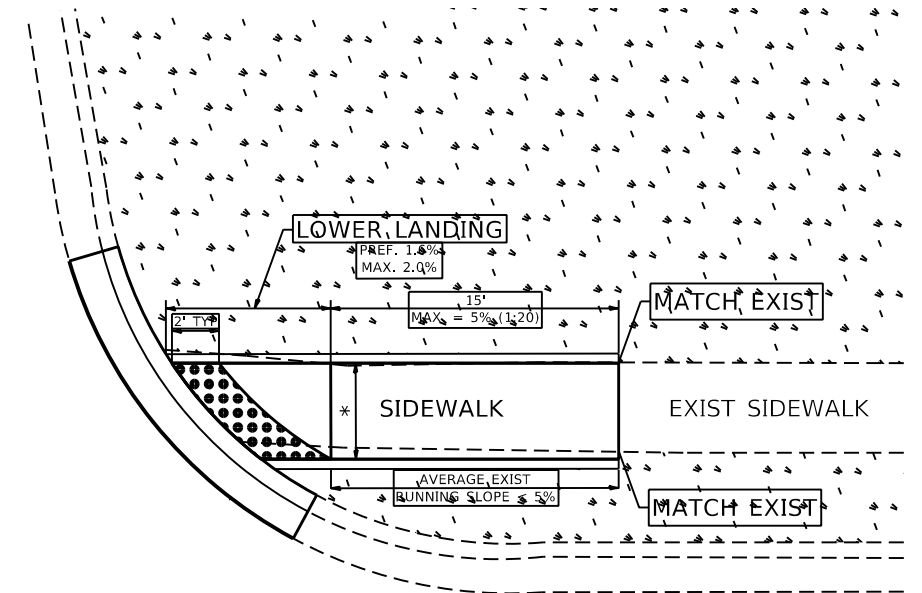
**PD-01A**




**PD-01B**



**PD-01C**



**LEGEND**

-  EXIST. GRASS
-  PROPOSED SIDE CURB
-  PROPOSED SIDEWALK
-  DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip, Steed	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

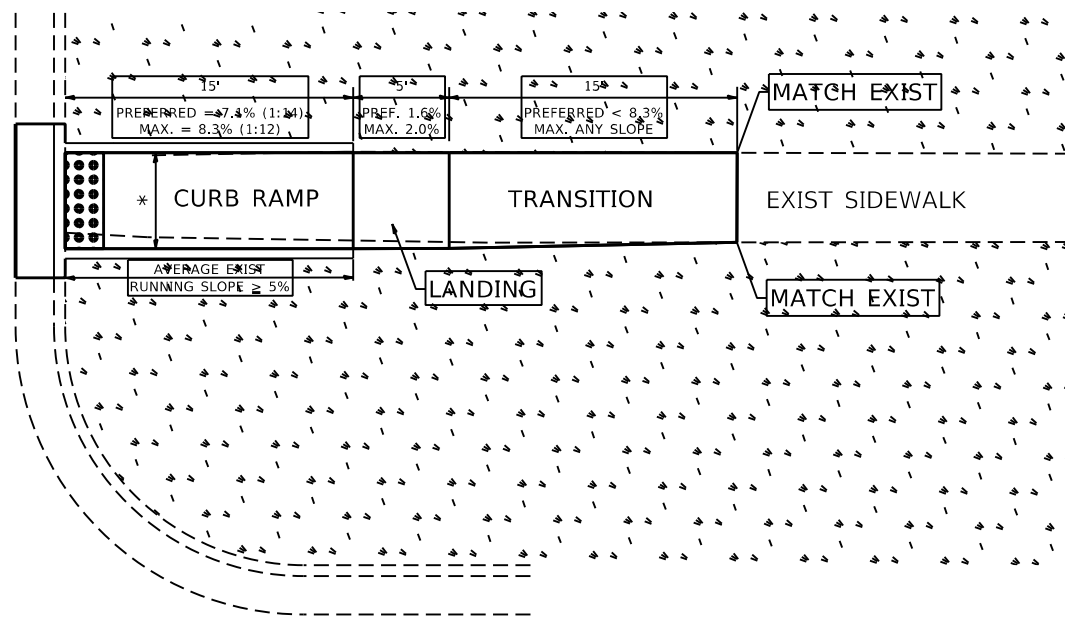
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-01)**

SCALE: NONE    SHEET OF SHEETS    STA. TO STA.

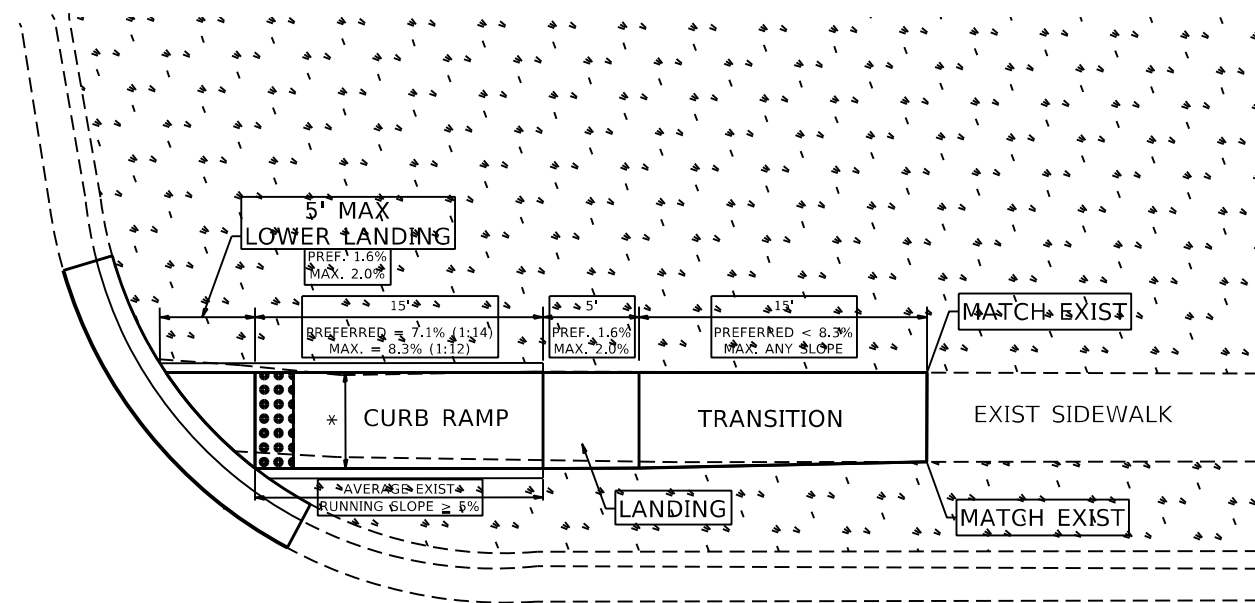
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 34
PD-01		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

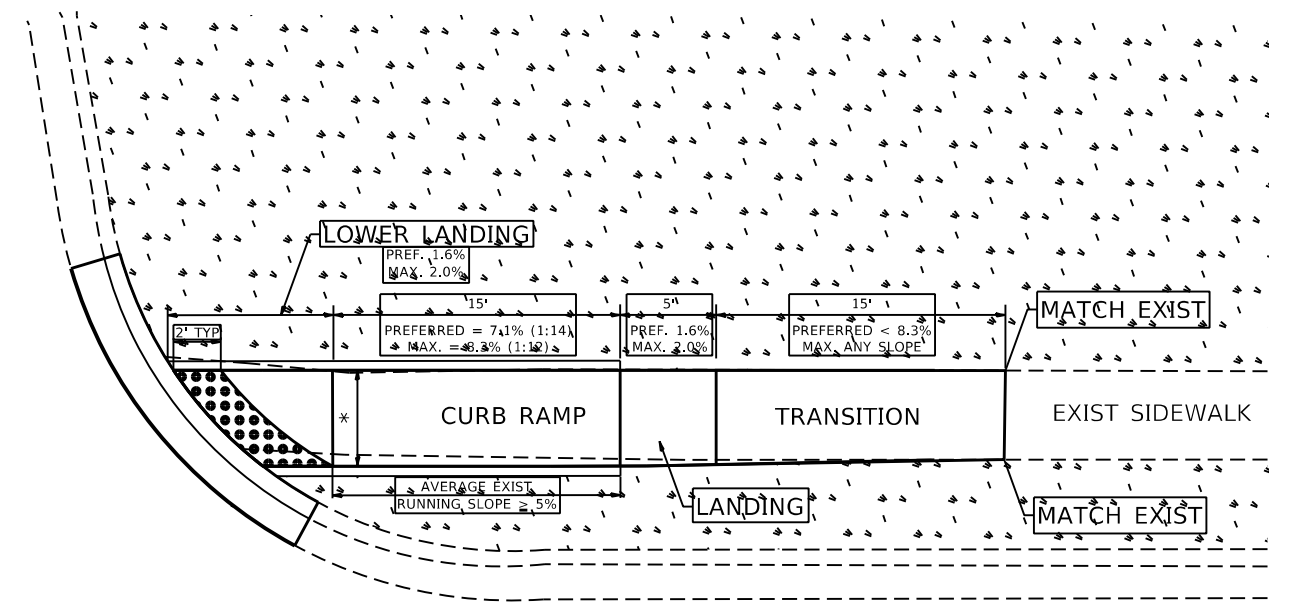
**PD-02A**



**PD-02B**



**PD-02C**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip.Steed	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - R. LEDEZMA	REVISED -
PLOT DATE = 6/12/2023	CHECKED -	REVISED -
	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

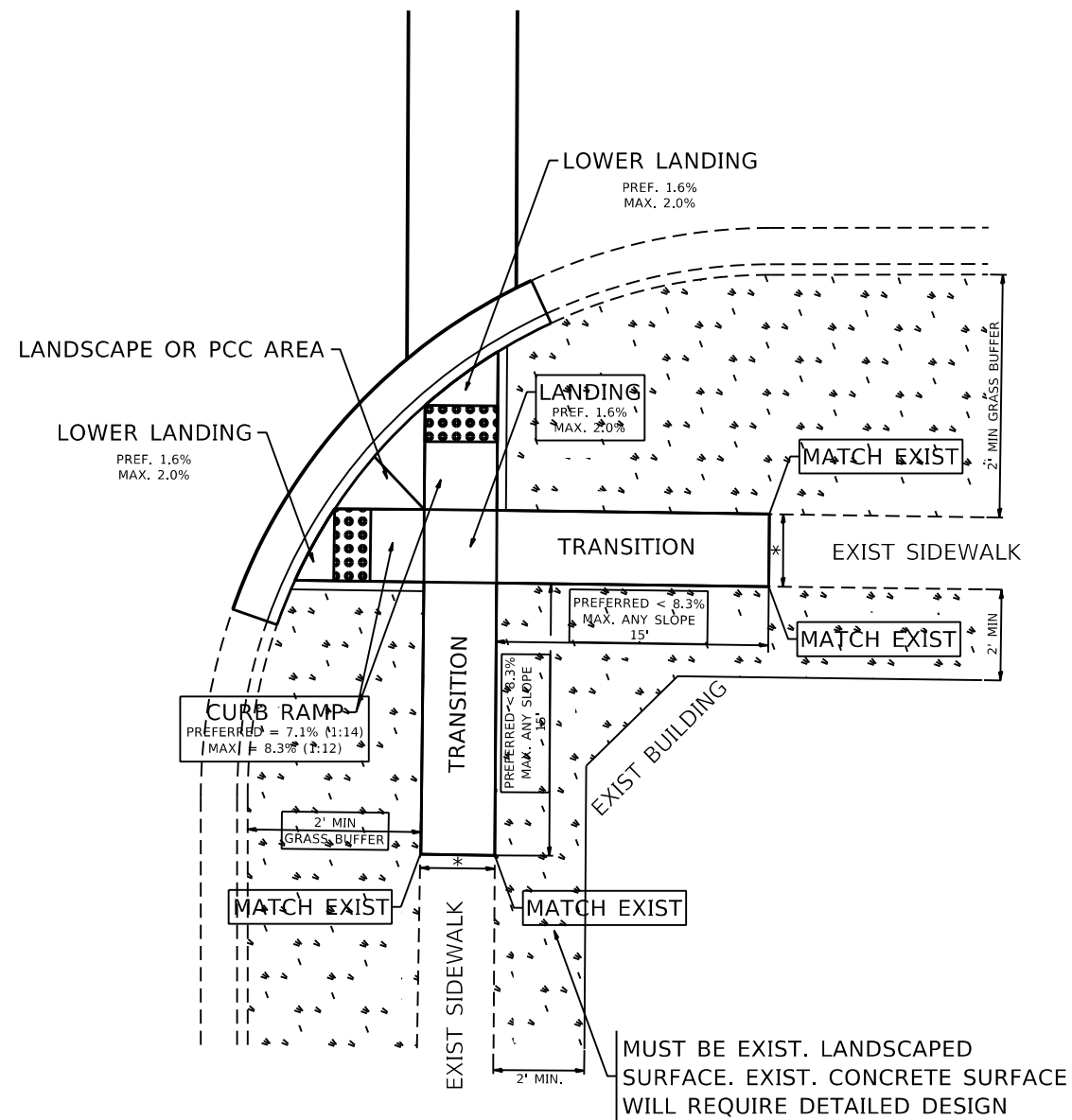
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-02)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

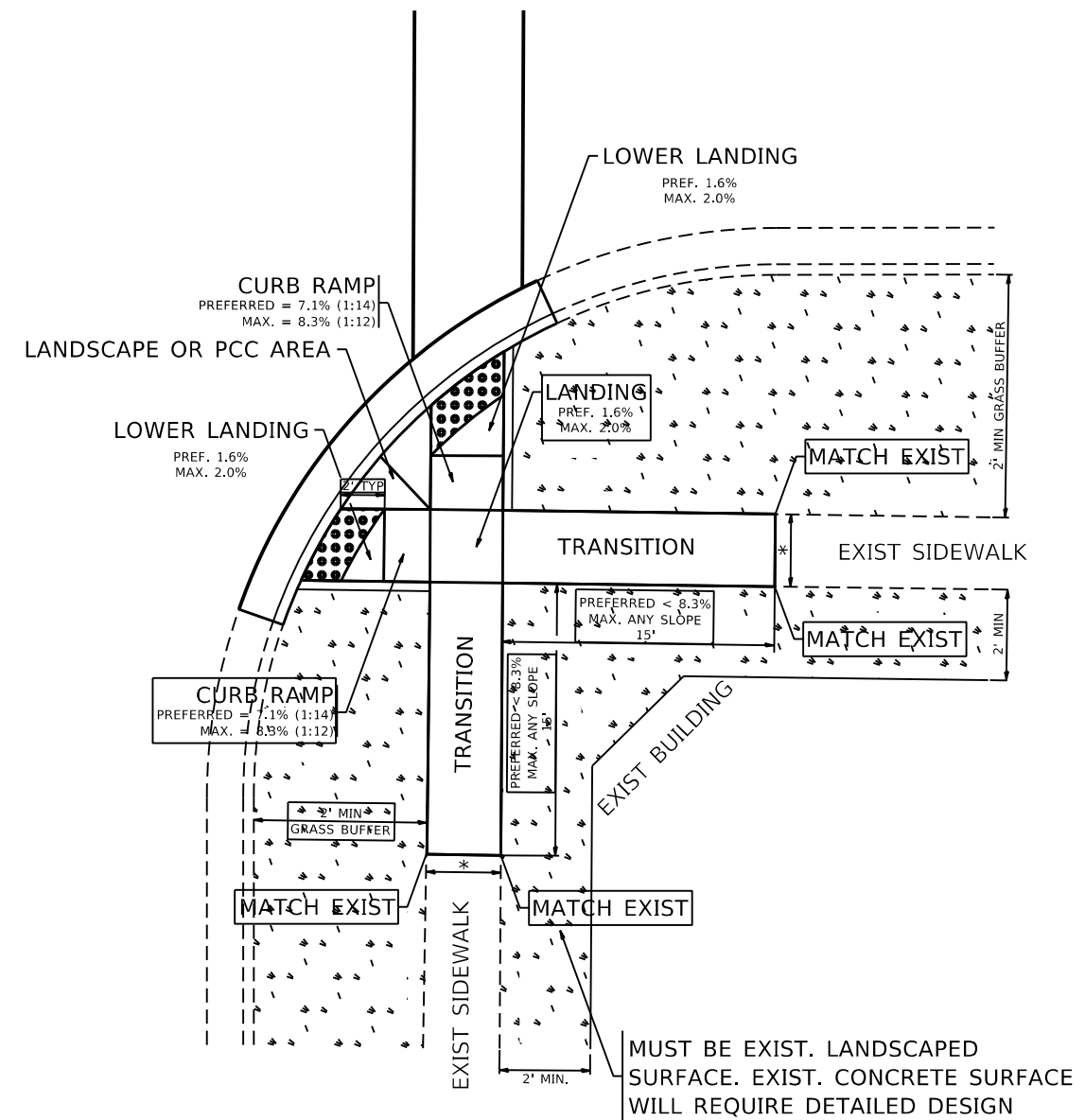
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 35
PD-02		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS

**PD-03A**



**PD-03B**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip.Steed	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

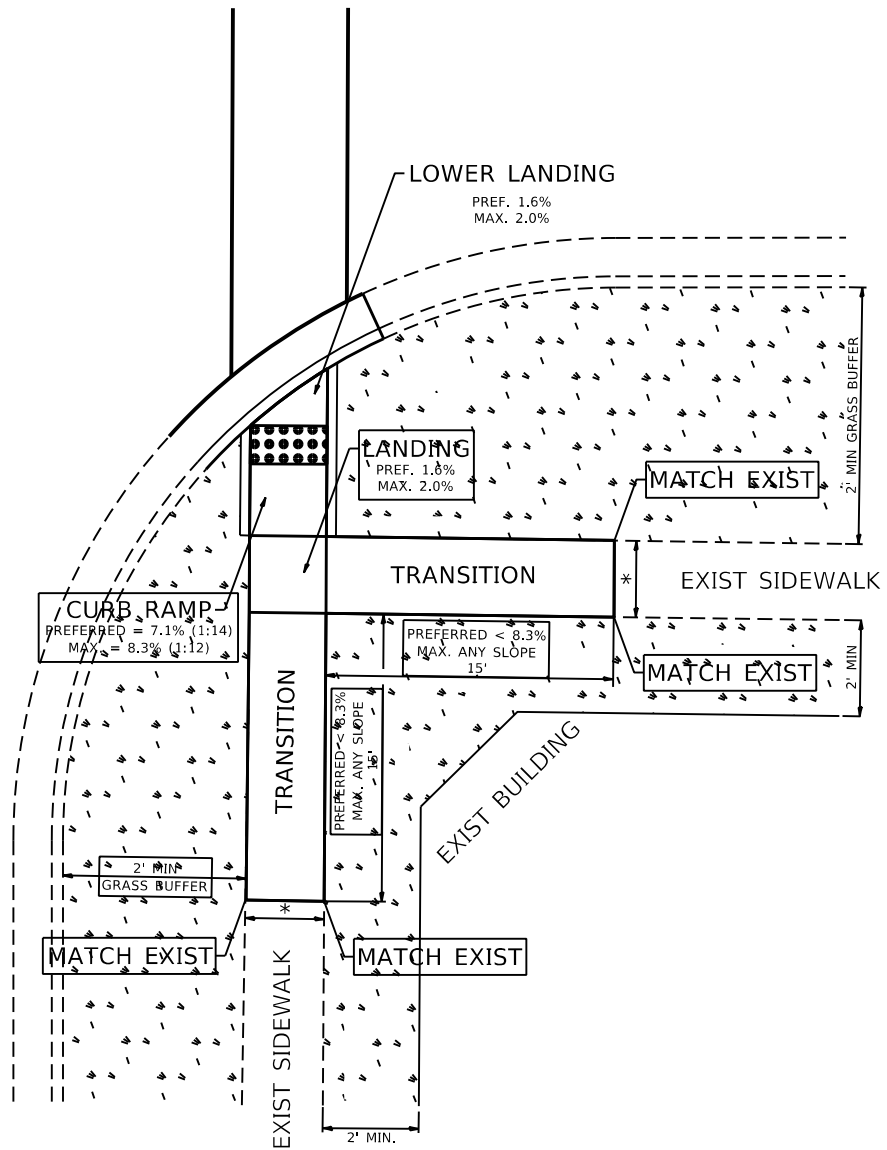
**PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS  
(PD-03)**

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

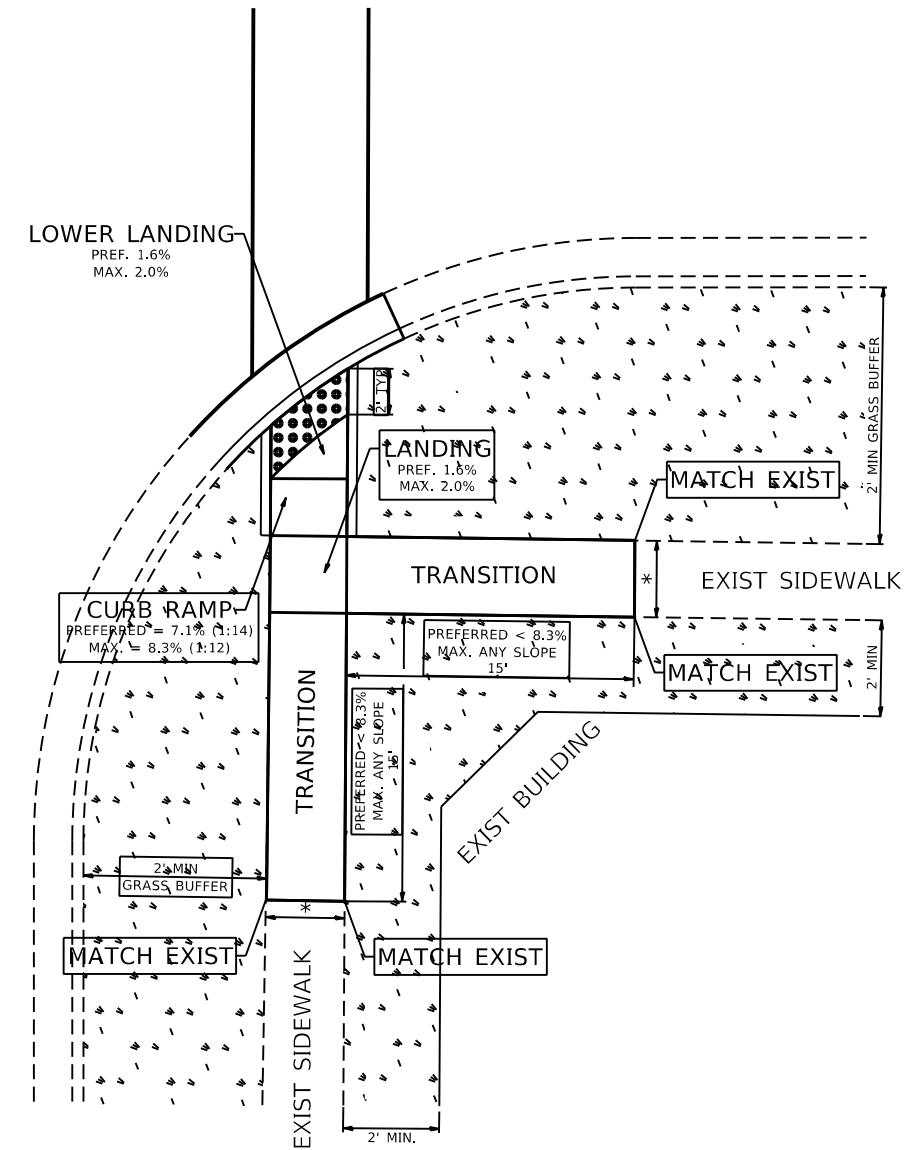
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 36
PD-03		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

**PD-04A**



**PD-04B**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDE CURB
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip.Steed	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

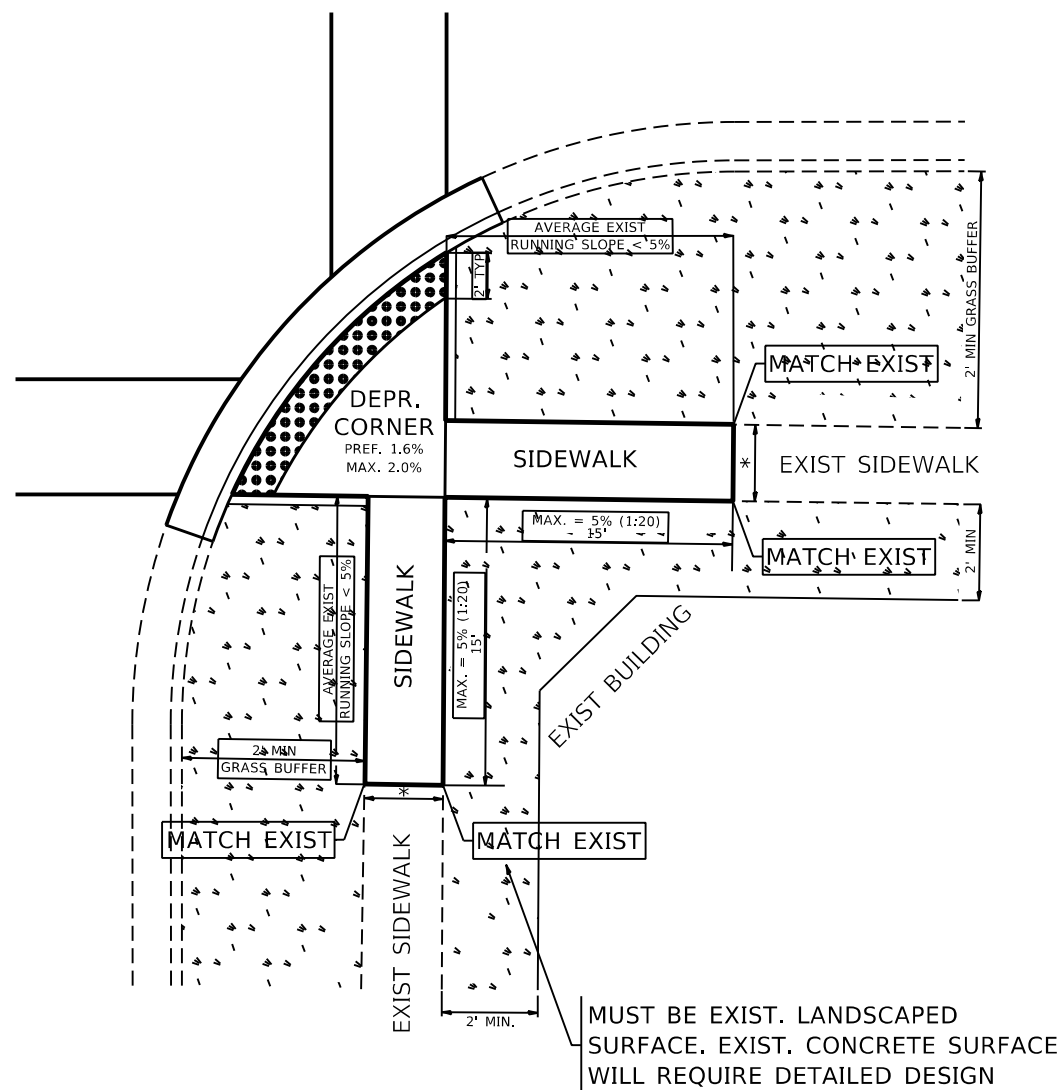
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS WITH  
TURNING SPACE (PD-04)**

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

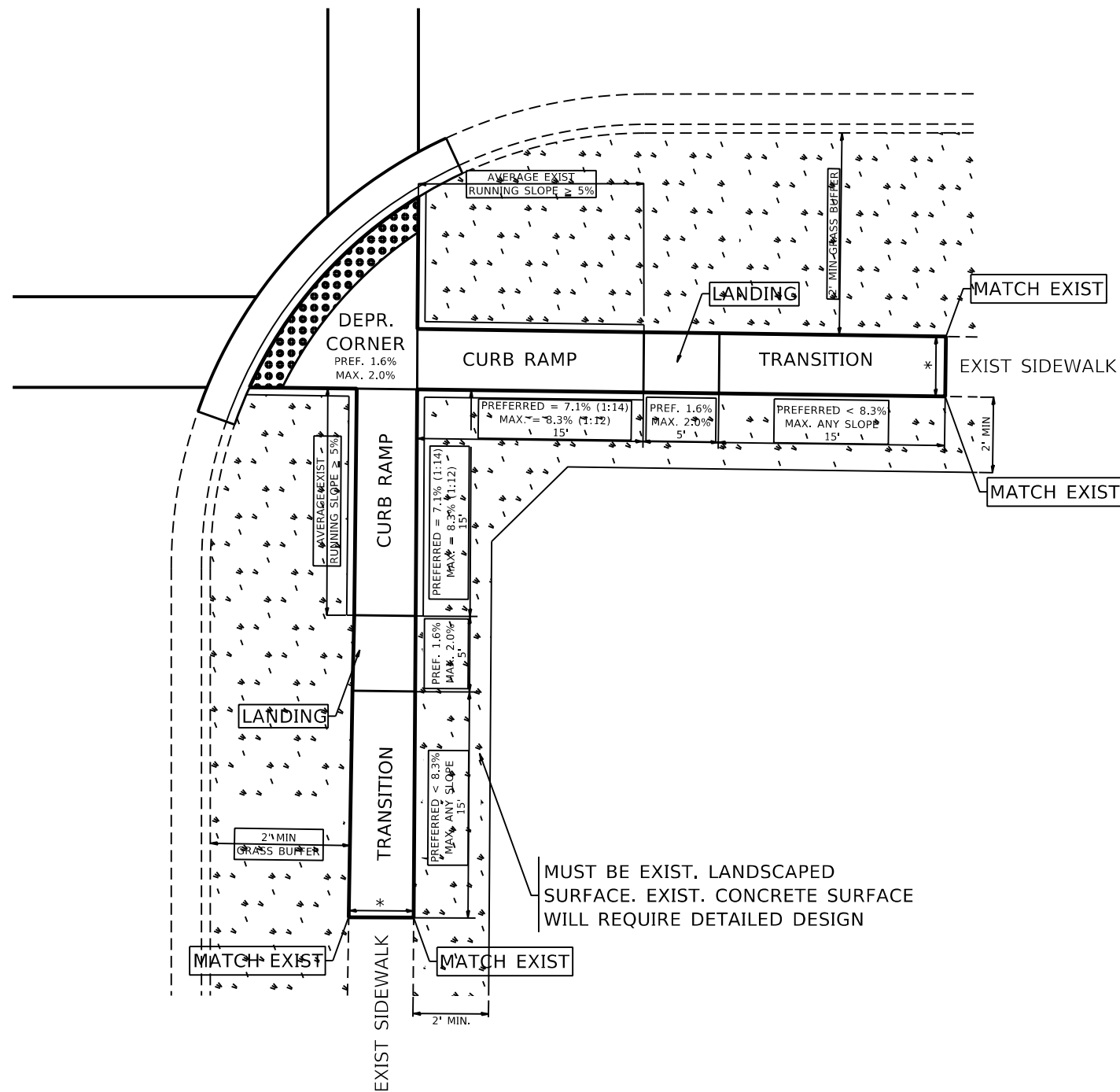
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 37
PD-04		CONTRACT NO. 62R71		
ILLINOIS		FED. AID PROJECT		

# ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

**PD-05A**



**PD-05B**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip.Steed	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

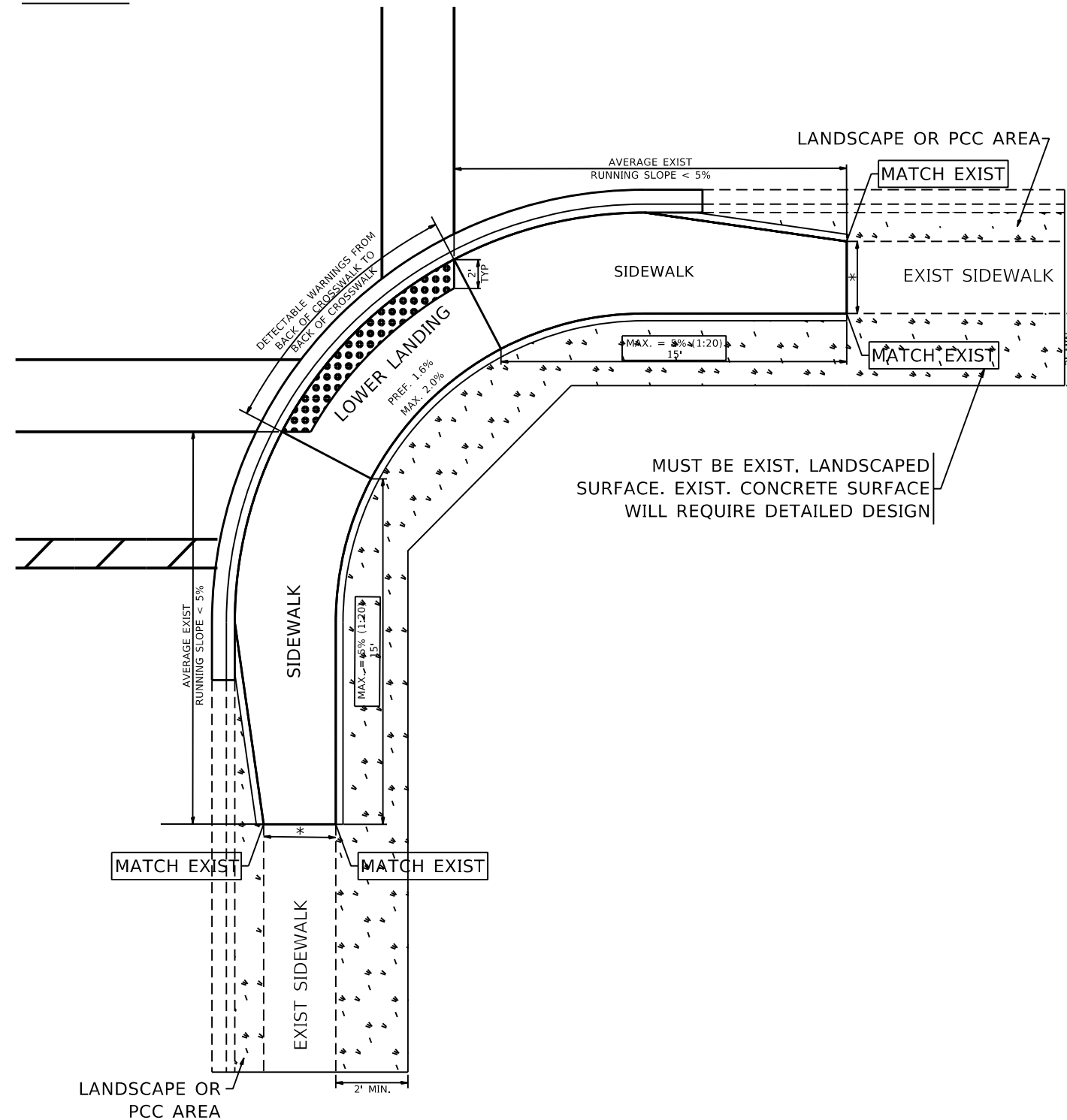
**PROJECT DETAIL FOR DEPRESSED CORNER CURB RAMPS  
(PD-05)**

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

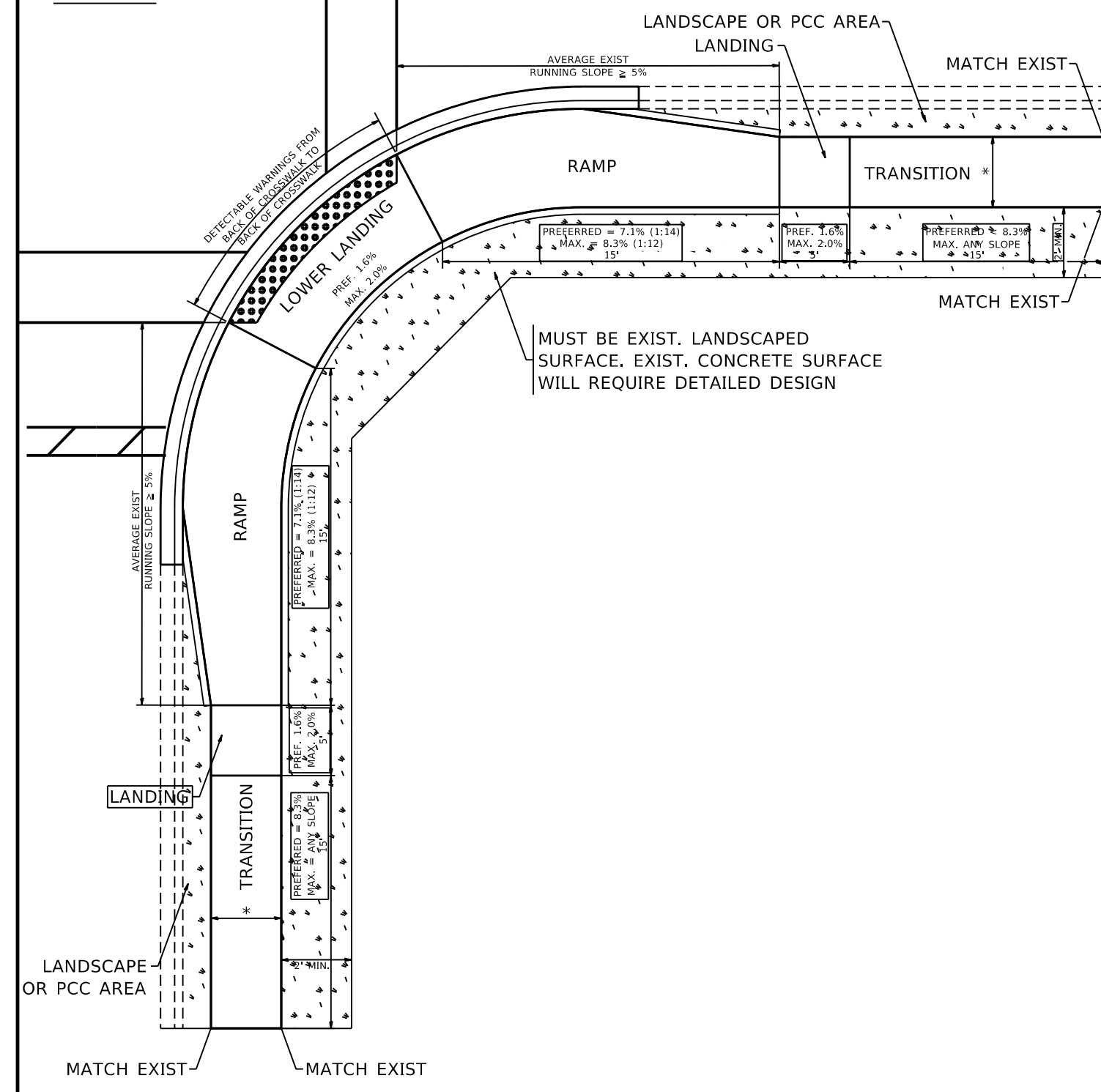
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 38
PD-05		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

**PD-06A**



**PD-06B**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

MODEL: D:\draft\... FILE NAME: ...

USER NAME = Phillip.Steed	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR PARALLEL CURB RAMPS  
(PD-06)**

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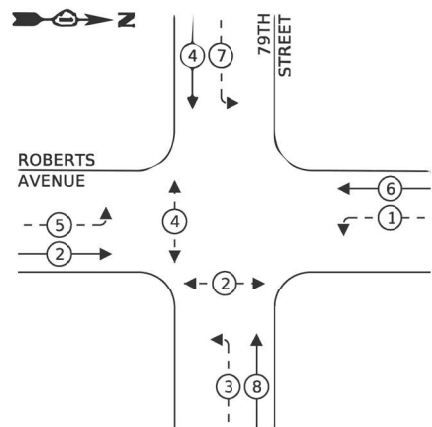
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 39
PD-06		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				







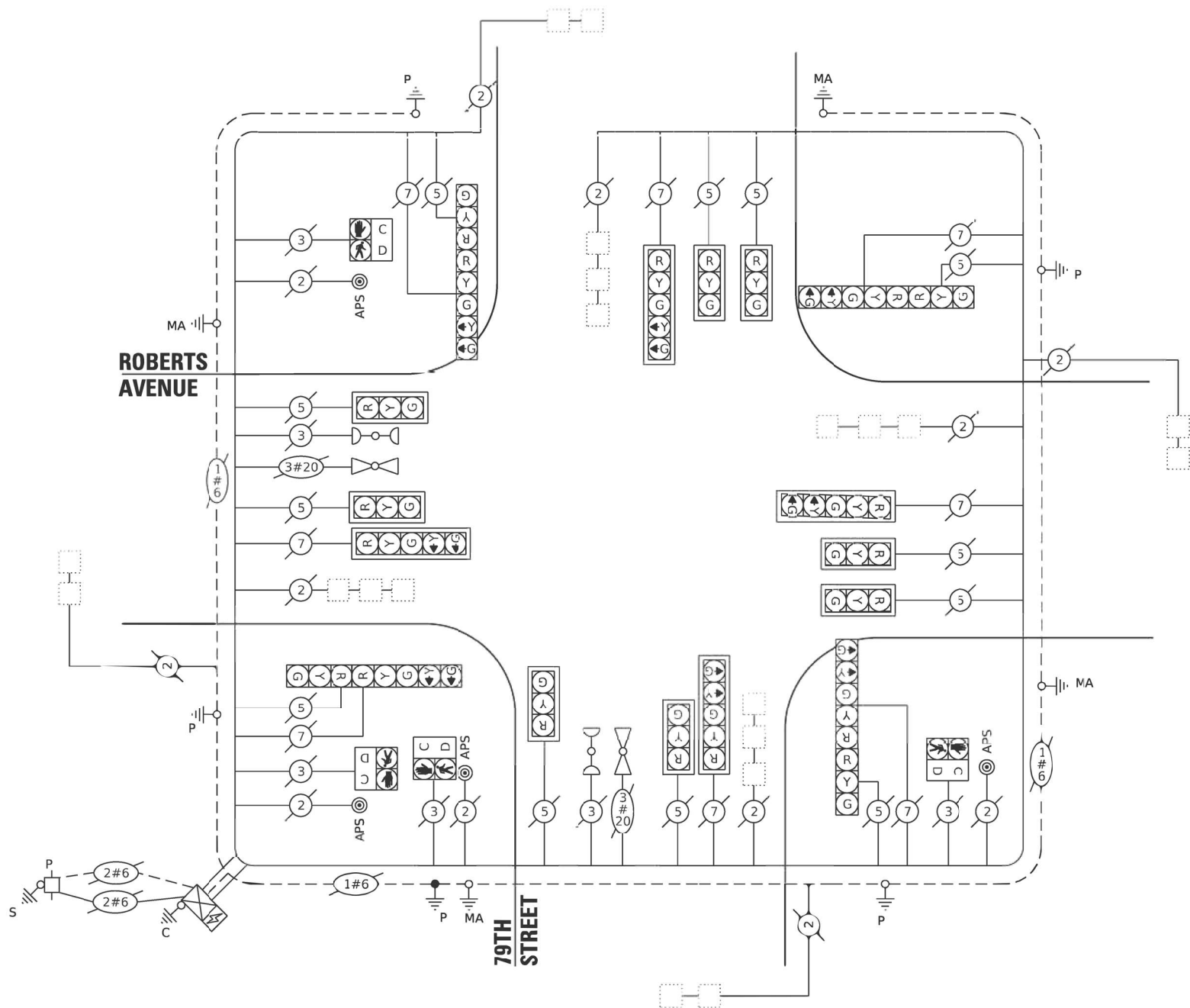
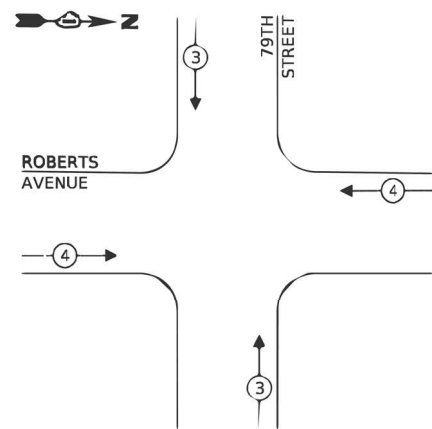
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

- ← (circle with asterisk) → PROTECTED PHASE
- ← (circle with asterisk and dashed line) → PROTECTED/PERMITTED PHASE
- ← (circle with asterisk and arrow) → PEDESTRIAN PHASE
- ← (circle with asterisk and diamond) → OVERLAP

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>459</b>

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	10
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	507
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	35
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 CENTER CT  
SHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: COMMONWEALTH EDISON  
PHONE: 865-639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: #46630-61134

TS SHT NO. 10

MODEL: D:\dgn\... FILE: M:\proj\2023\_002\_IDOT\_PTB\_173\_12\_Traffic\_Signal\_Design\Drawings\LEADS\_Upgrade\CD\CD\CD\_Sheets\271-CableP.mxd 13:00:00 1/17/2023



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PLOT DATE = 3/24/2023 1:28:51 PM	DATE - 12/16/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
79TH STREET AT ROBERTS AVENUE**

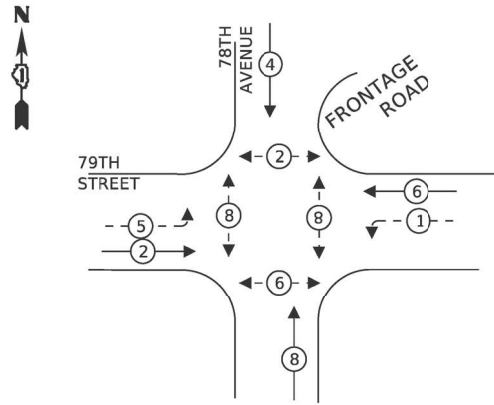
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1549	1548/1549 22 RESURFACE	COOK	76	41
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

TS#10720



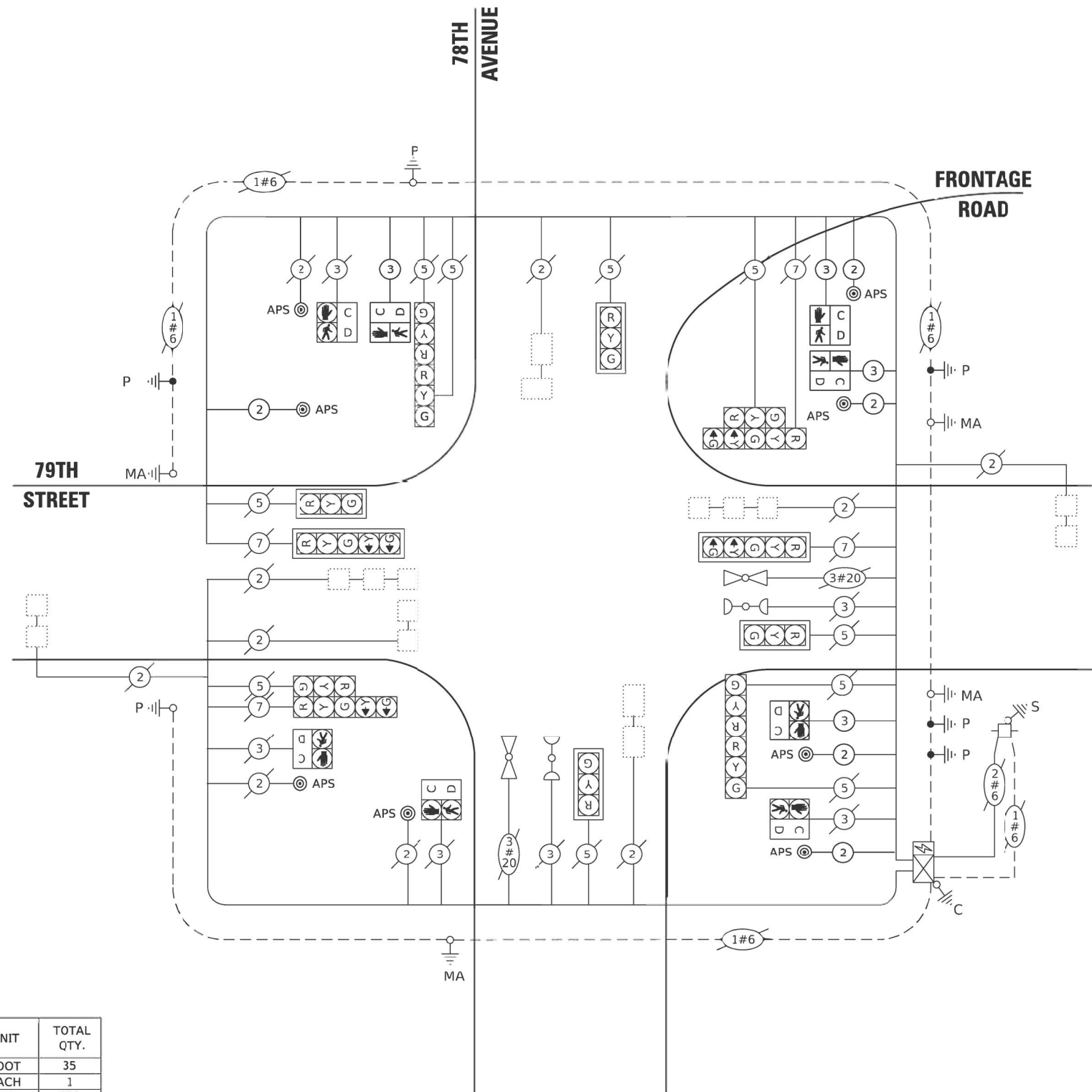
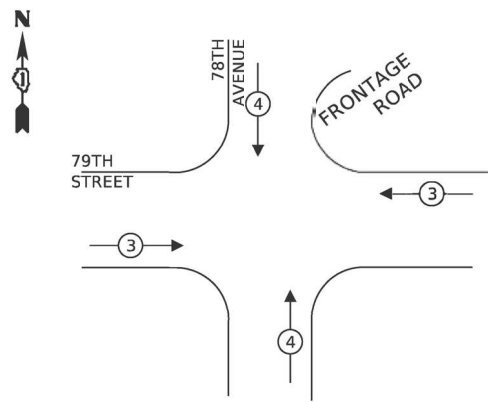
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) ← OL OVERLAP

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**CABLE PLAN**

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>459.6</b>

ENERGY COSTS TO:

**CITY OF BRIDGEVIEW**  
7500 S OKETO AVE #3  
BRIDGEVIEW, IL 60455

ENERGY SUPPLY: CONTACT: COMMWEATH EDISON  
PHONE: 866-639-3532  
COMPANY: COMMWEATH EDISON  
ACCOUNT NUMBER: #17390-11030

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	35
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	650
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	890
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	55
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	4
DETECTOR LOOP, TYPE I	FOOT	554
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	50
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS SHT NO. 12

MODEL: D:\dgn\... FILE: W:\m\p\p\... 12 Traffic Signal Design\Design\ED\APS... User: Electrical\JCD\JCD\_Spreadsheet1-CablePlan-12780-78th&79th&FRV.dgn



USER NAME = dbennett	DESIGNED - DWB	REVISED -
PEN TABLE = D162R71.tbl	DRAWN - MMC	REVISED -
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PLOT DATE = 3/24/2023 1:29:03 PM	DATE - 12/16/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
79TH STREET AT 78TH AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1549	1548/1549 22 RESURFACE	COOK	76	43
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

**TS#12760**



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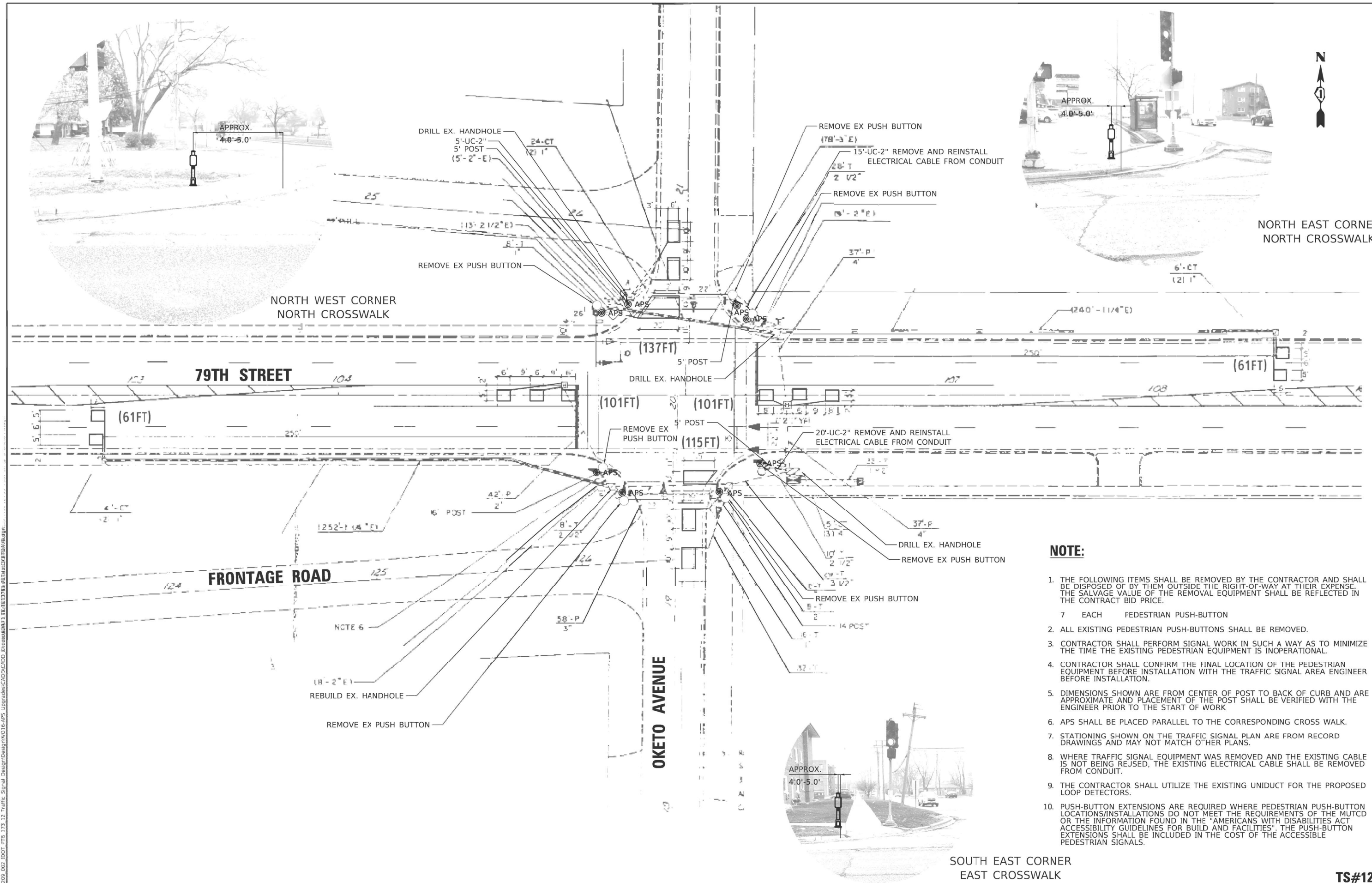
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN  
 79TH STREET AT OKETO AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	22 RESURFACE	COOK	70	44
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

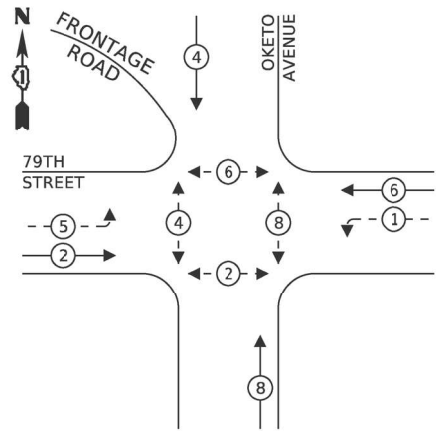
TS#12755



**NOTE:**

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
  - 7 EACH PEDESTRIAN PUSH-BUTTON
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
5. DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
7. STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
8. WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
9. THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
10. PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.

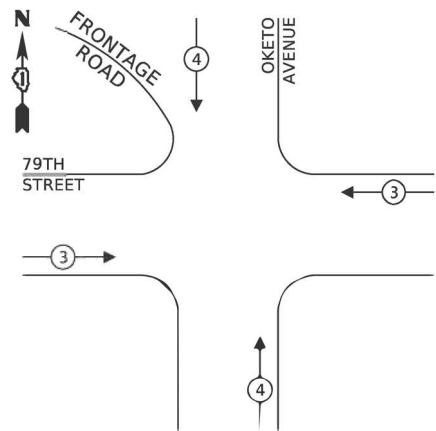
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

- ← \* → PROTECTED PHASE
- ← \* - - PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← OL → OVERLAP

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

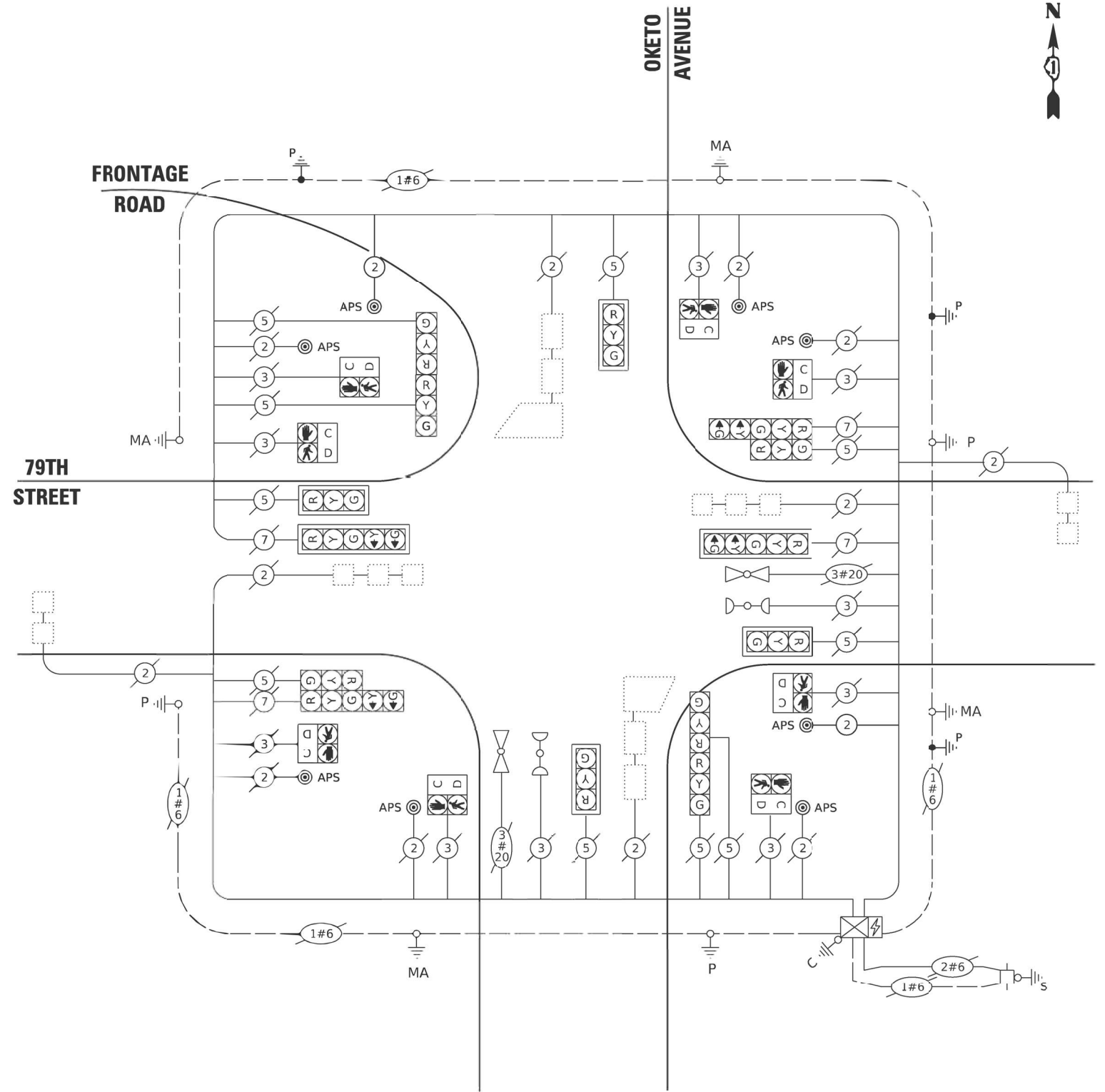
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	99.0
(YELLOW)	14	20	5	18.0
(GREEN)	14	12	45	97.2
PERMISSIVE ARROW	8	10	10	32.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>531.2</b>

ENERGY COSTS TO:

**CITY OF BRIDGEVIEW**  
7500 S OKETO AVE #3  
BRIDGEVIEW, IL 60455

ENERGY SUPPLY: CONTACT: COMMONWEALTH EDISON  
PHONE: 866-639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: #17390-11030

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	40
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	210
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
DRILL EXISTING HANDHOLE	EACH	3
DETECTOR LOOP, TYPE :	FOOT	576
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	130
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	40
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**

TS SHT NO. 14

MODEL: D:\sht\14.dwg  
FILE: 1548\_1549\_22\_RESURF.dwg  
DATE: 3/24/2023 1:29:16 PM



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PLOT SCALE =	2.0000 / in.	CHECKED =	BKS	REVISED =	
PLOT DATE =	3/24/2023 1:29:16 PM	DATE =	12/16/2022	REVISED =	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
79TH STREET AT OKETO AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548	1548/1549 22 RESURFACE	COOK	76	35
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

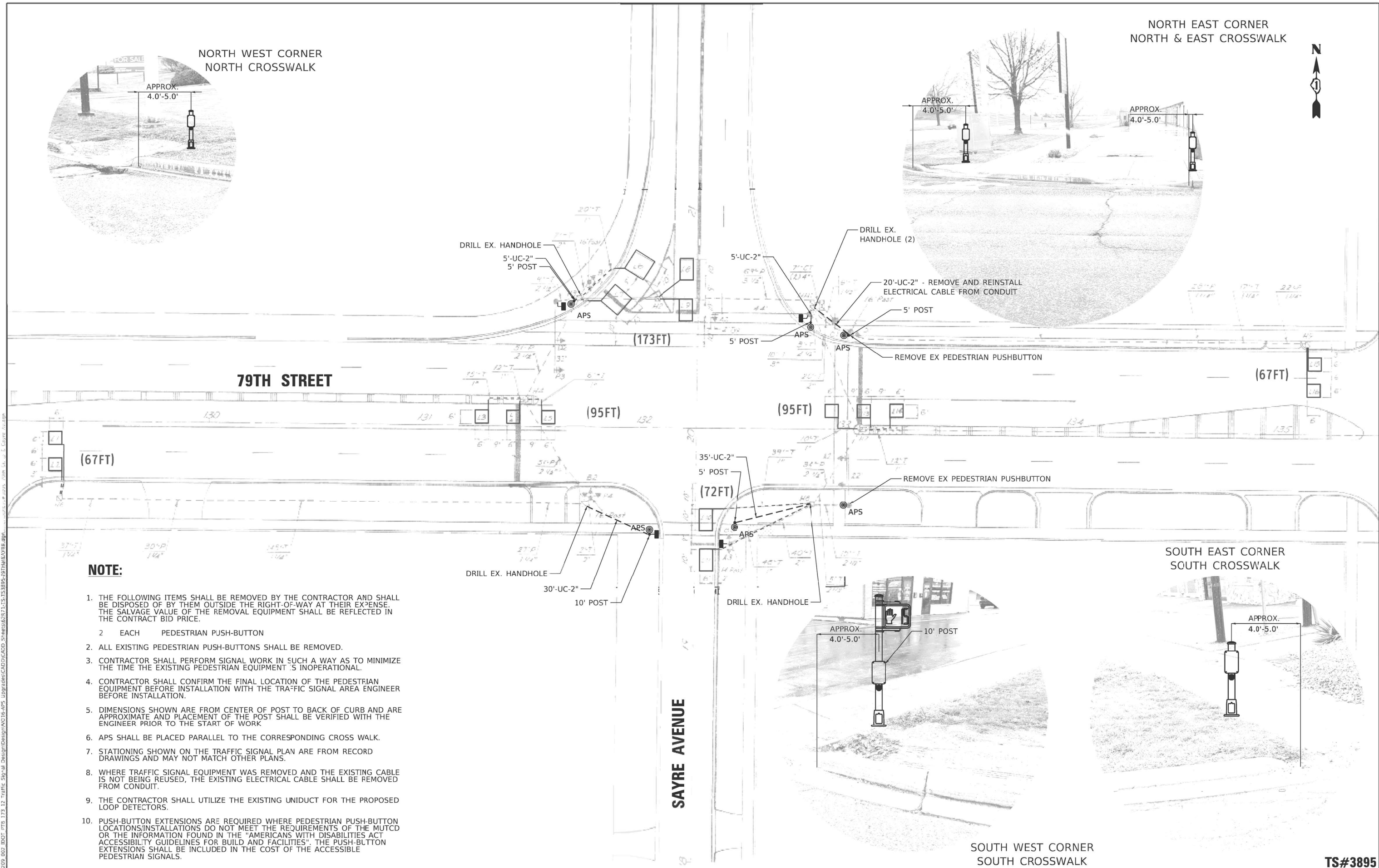
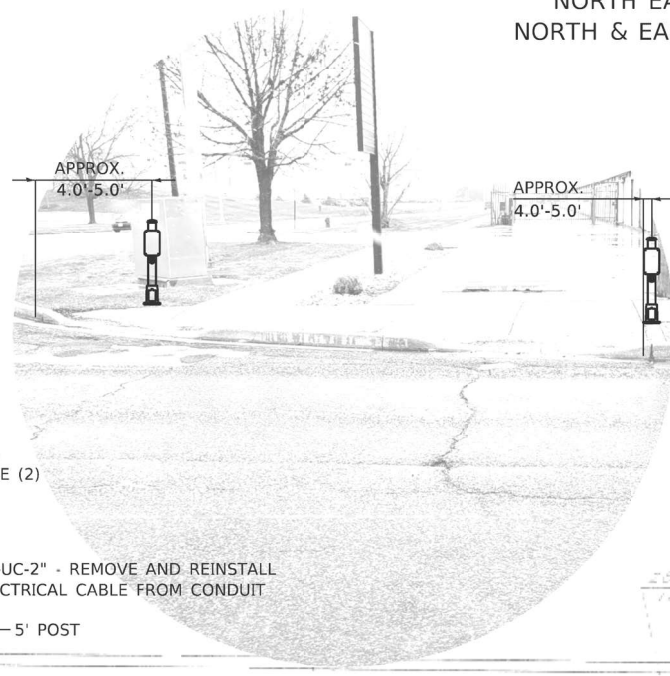
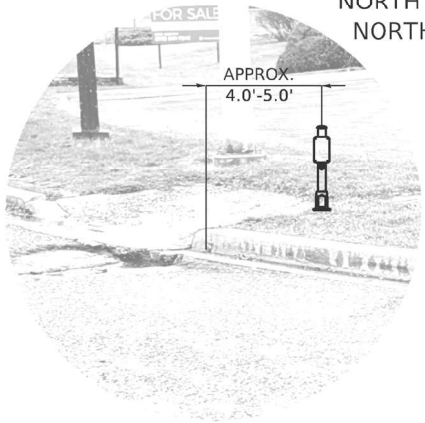
**TS#12755**



NORTH EAST CORNER  
NORTH & EAST CROSSWALK



NORTH WEST CORNER  
NORTH CROSSWALK



**NOTE:**

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
2. EACH PEDESTRIAN PUSH-BUTTON
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
5. DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
7. STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
8. WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
9. THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
10. PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.

TS SHT NO. 15

MODEL: D:\dtd\11... FILE NAME: PLOT\_209\_003... PROJECT: 173 12 Traffic Signal Design\K16-APS... DATE: 3/24/2023



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

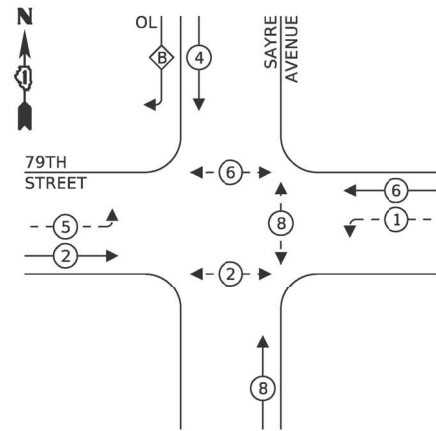
**TRAFFIC SIGNAL PLAN  
79TH STREET AT SAYRE AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549 22	RESURFACE	COOK	70	46
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

TS#3895

**PROPOSED CONTROLLER SEQUENCE**

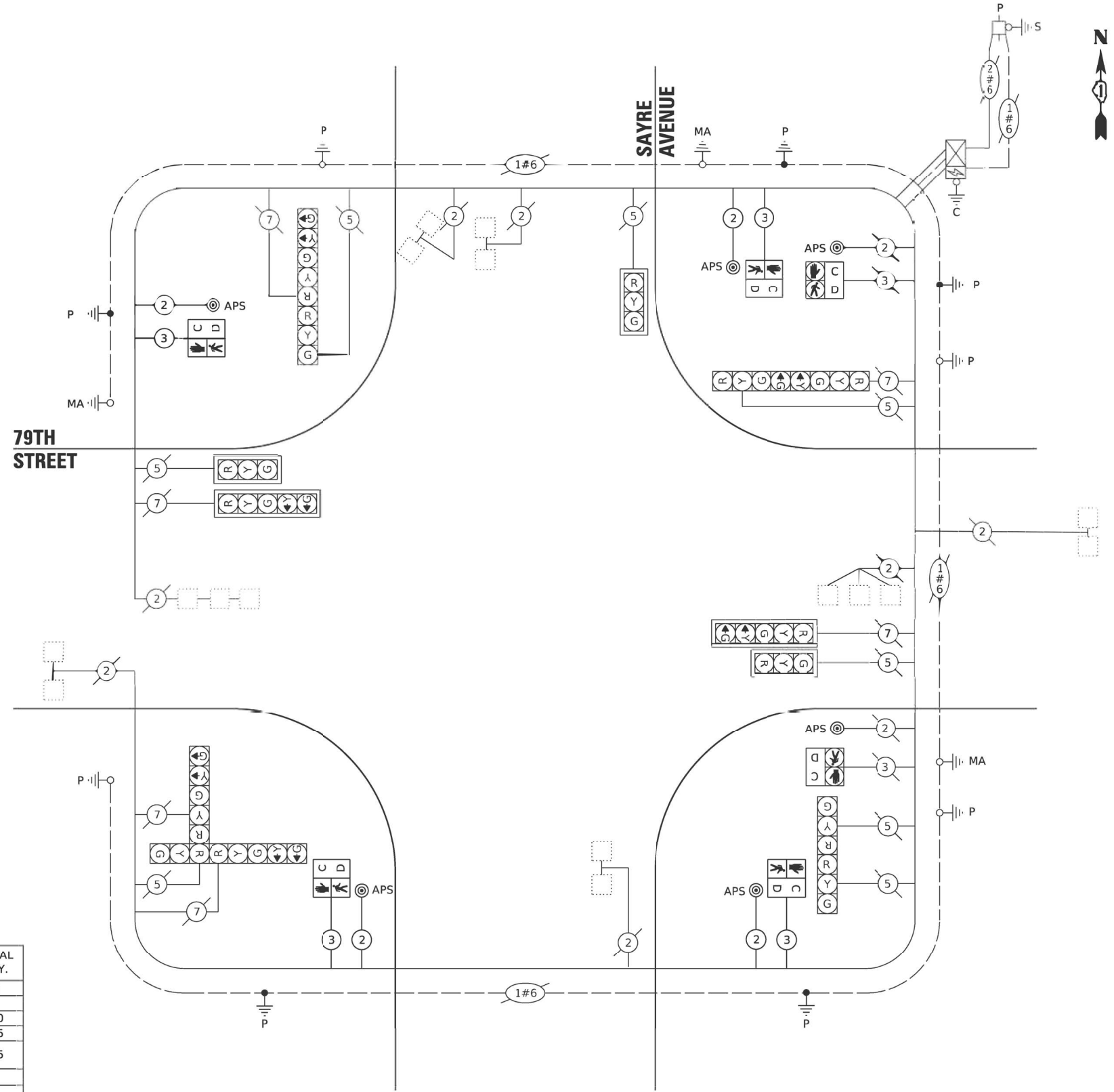


**LEGEND:**

- ← \* → PROTECTED PHASE
- ← \* - - PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 8	+ 5



**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>423.6</b>

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	95
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	680
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	495
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	135
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	569
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	60
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

CITY OF BRIDGEVIEW  
7500 S OKETO AVE #3  
BRIDGEVIEW, IL 60455

ENERGY SUPPLY: CONTACT: COMMONWEALTH EDISON  
PHONE: 865-639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: #17390-11030

TS SHT NO. 16

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PLOTTER: HP DesignJet 5000 Series  
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DESIGNED	- DWB
DRAWN	- MMC
CHECKED	- BKS
DATE	- 12/16/2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

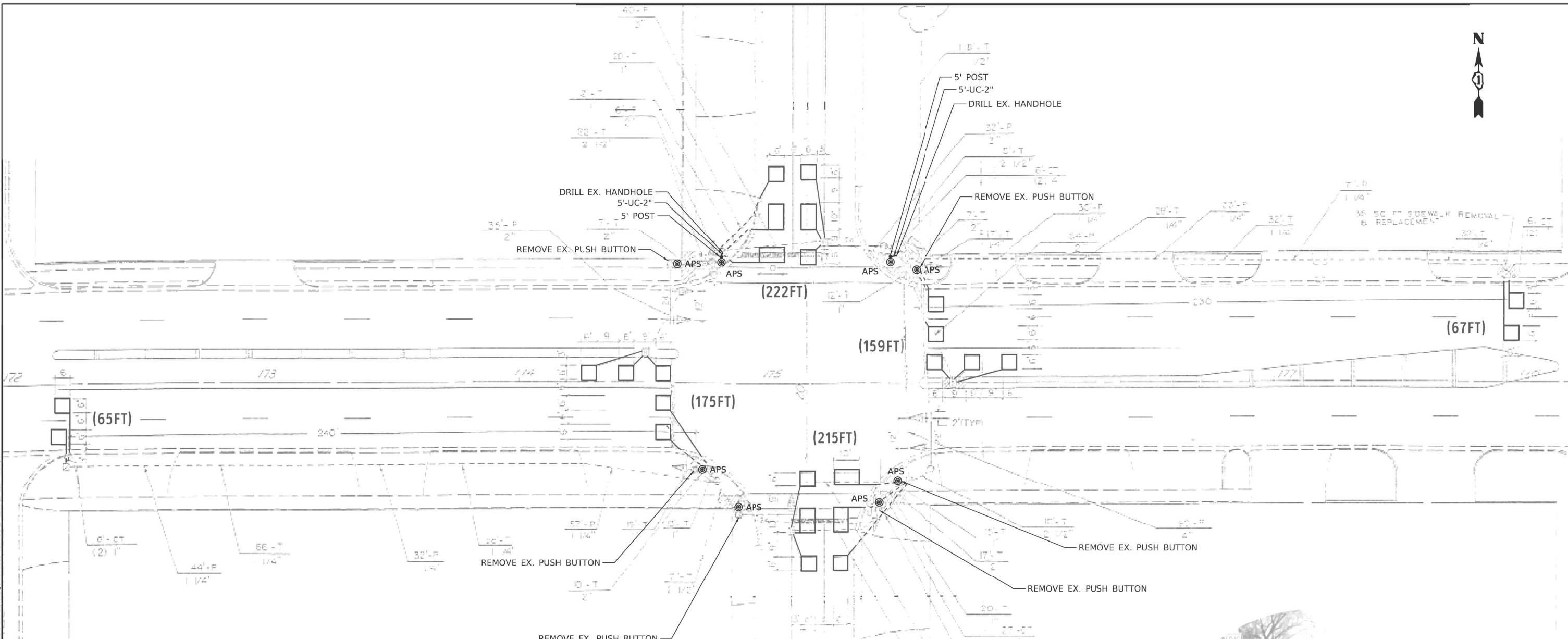
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
79TH STREET AT SAYRE AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1540	1548/1549 22 RESURFACE	COOK	76	47
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

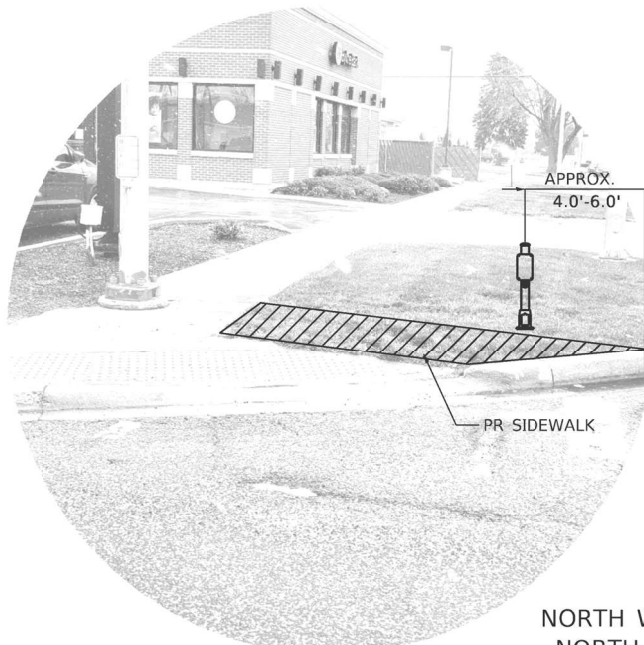
TS#3895

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 SHEET: 17

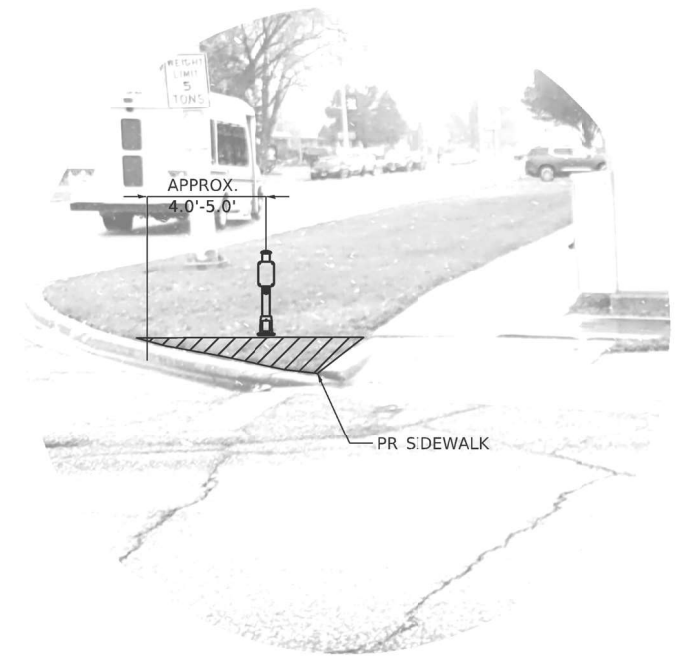


**NOTE:**

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 6 EACH PEDESTRIAN PUSH-BUTTON
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
5. DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
7. STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
8. WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
9. THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
10. PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.



NORTH WEST CORNER  
NORTH CROSSWALK



NORTH EAST CORNER  
NORTH CROSSWALK

**NARRAGANSETT AVENUE**



USER NAME = dbennett	DESIGNED - DWB	REVISED -
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PLOT SCALE = 40.0000' / in.	CHECKED - BKS	REVISED -
PLOT DATE = 3/24/2023 1:29:33 PM	DATE - 12/16/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN  
79TH STREET AT NARRAGANSETT AVENUE**

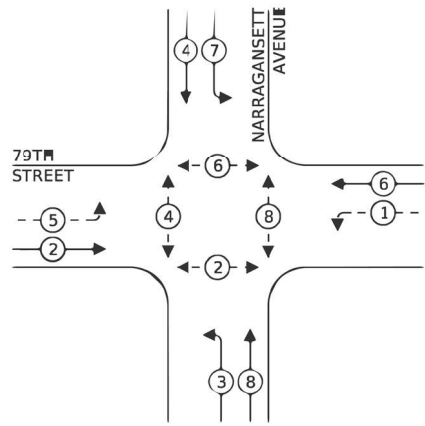
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	22 RESURFACE	COOK	70	17
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

**TS#3885**



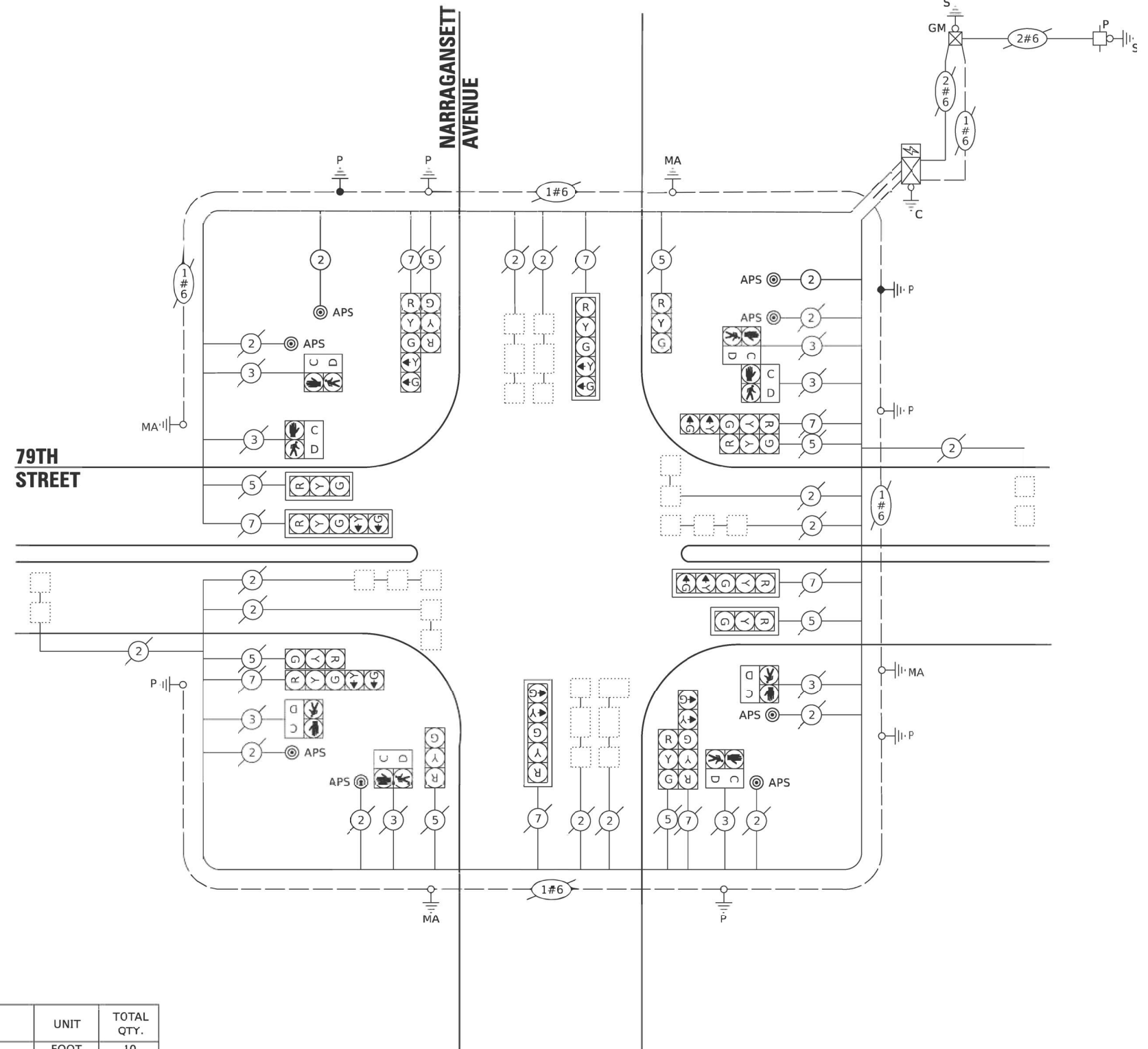
**EXISTING CONTROLLER SEQUENCE**



**EXISTING PHASE DESIGNATION DIAGRAM**

**LEGEND:**

- ⊙ \* — PROTECTED PHASE
- ← ⊙ \* — PROTECTED/PERMITTED PHASE
- ← ⊙ \* — PEDESTRIAN PHASE
- ⊙ \* OL — OVERLAP



**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	32	10	10	32.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK -OT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>531.2</b>

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	10
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	160
ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	20
GROUNDING CONDUCTOR, NO. 6 1C	FOOT	20
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	903
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 CENTER CT  
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: COMMONWEALTH EDISON  
PHONE: 865-639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: # 21331-35398

TS SHT NO. 18

MODEL: D:\64bit\... FILE NAME: PLOT\_209\_002\_IDOT\_PTB\_173\_12\_Traffic\_Signal\_Design\Design\VIDEO\APS\_Upgrade\CADD\CADD\_Sheets\6171-CablePlan-153885-79TH-NARRAGANSETT.dgn



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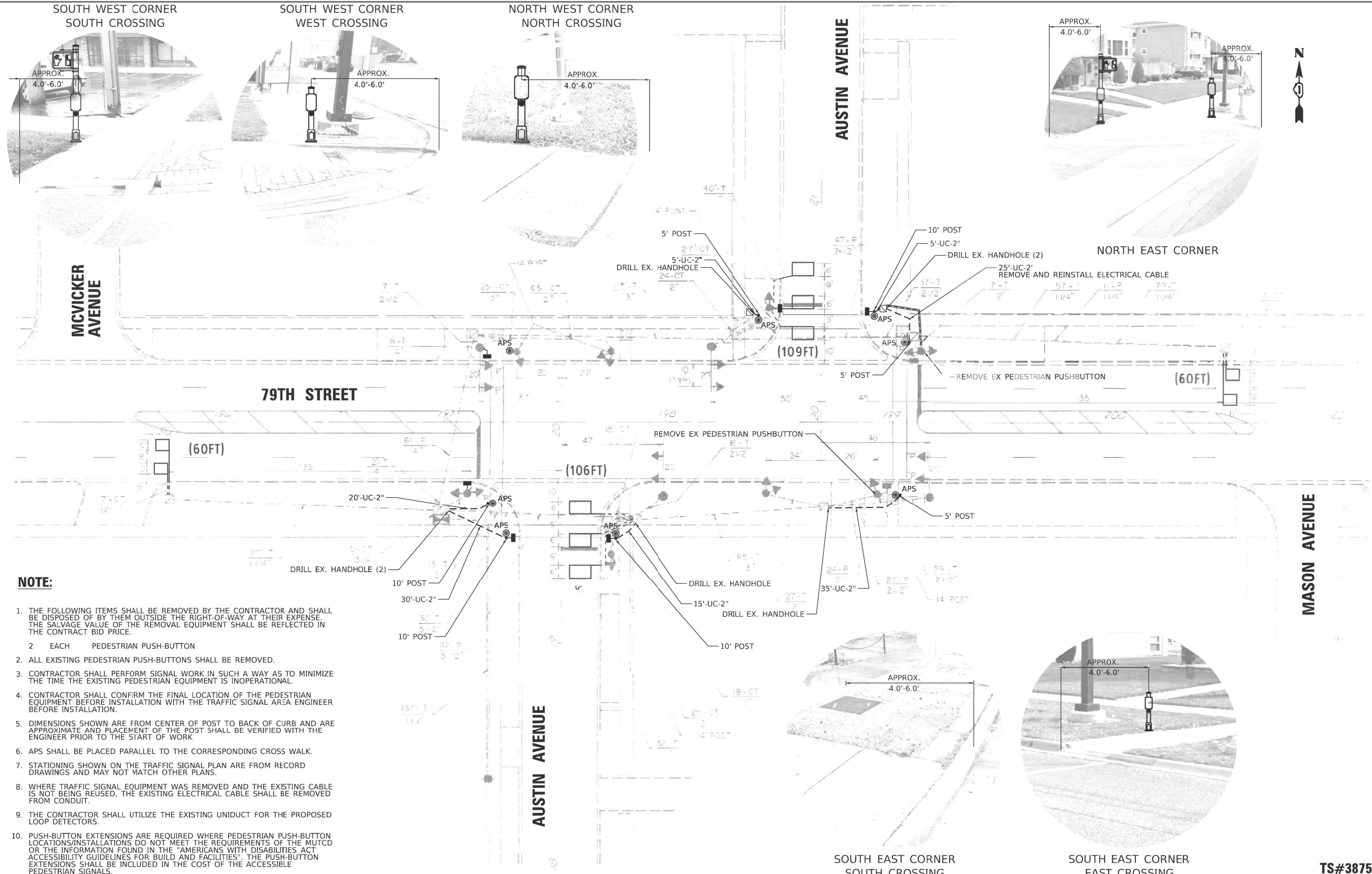
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, 79TH STREET AT NARRAGANSETT AVENUE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U.   SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1549   1548/1549 22 RESURFACE	COOK	76	49
CONTRACT NO. 62R71			
ILLINOIS FED. AID PROJECT			

TS#3885

MODEL: D:\sht\19\19.dwg  
FILE NAME: PLOT\_209\_003\_001\_001.dwg  
DATE: 12/16/2022 1:29:43 PM



**NOTE:**

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
2. EACH PEDESTRIAN PUSH-BUTTON
3. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
4. CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
5. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
6. DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK
7. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
8. STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
9. WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
10. THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
11. PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN  
79TH STREET AT AUSTIN AVENUE**

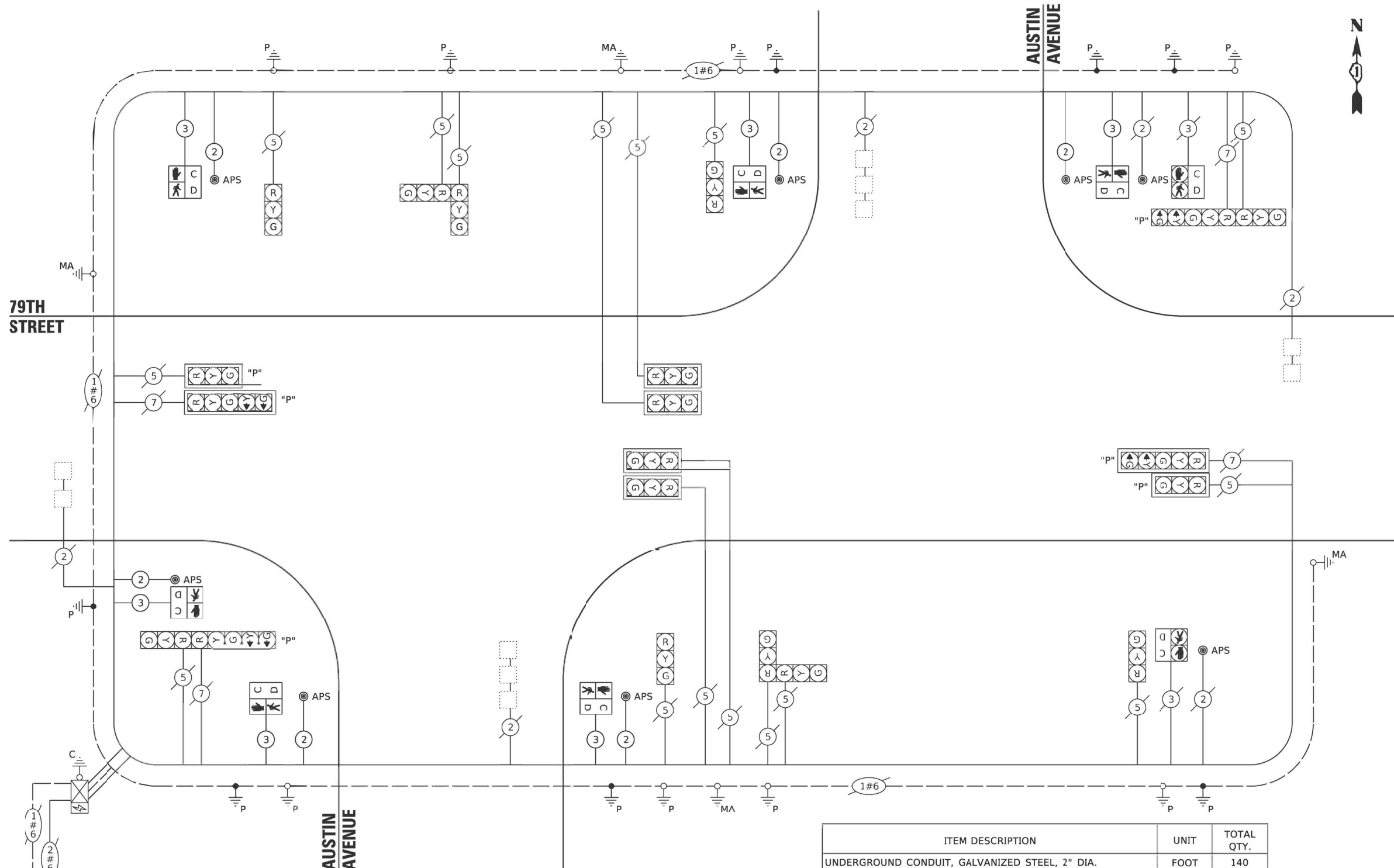
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1540	1548/1549 22 RESURFACE	COOK	75	50
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

**TS#3875**

TS SHT NO. 20

MODEL: D:\dgn\... FILE: W:\proj\_209\_002\_IDOT\_PTB\_173\_12\_Traffic\_Signal\_Design\Drawings\LEADS... 12/16/2022 1:29:54 PM



**CABLE PLAN**  
(NOT TO SCALE)

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	140
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	620
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	732
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	200
DRILL EXISTING HANDHOLE	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	6
DETECTOR LOOP, TYPE I	FOOT	335
MODIFY EXISTING CONTROLLER CABINET	FOOT	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	EACH	80
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	8	10	10	16.0
PED. SIGNAL	6	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>539.0</b>

ENERGY COSTS TO:  
**CITY OF BURBANK**  
 6530 W 79TH ST #2  
 BURBANK, IL 60459  
 ENERGY SUPPLY: CONTACT: COMMONWEALTH EDISON  
 PHONE: 866-639-3532  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: #19210-46023



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

**CABLE PLAN**  
**79TH STREET AT AUSTIN AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 51
CONTRACT NO. 62R71			ILLINOIS FED. AID PROJECT	

**TS#3875**

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MOVEMENT	← T →										← T →							← T →							F L A S H																				
	1										2							3																											
PHASE	1										2							3																											
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CHANGE TO	2										3							1							3							2							1						
79TH ST. W/B SIGNALS AT NORTH APPROACH OF AUSTIN AVENUE	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R																		
79TH ST. W/B MID MOUNT MAST ARM SIGNAL AT SOUTH APPROACH OF AUSTIN AV	G	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R																		
79TH ST. W/B END MOUNT MAST ARM & FAR LEFT SIGNALS AT SOUTH APPROACH OF AUSTIN AV	G	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R																		
79TH ST. E/B SIGNALS AT SOUTH APPROACH OF AUSTIN AV	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R																		
79TH ST. E/B MID MOUNT MAST ARM SIGNAL AT NORTH APPROACH OF AUSTIN AV	G	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	R																	
79TH ST. E/B END MOUNT MAST ARM & FAR LEFT SIGNALS AT NORTH APPROACH OF AUSTIN AV	G	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	R																	
AUSTIN AV S/B SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R																	
AUSTIN AV N/B SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R																	
PEDESTRIAN CROSSING 79TH ST. ON EAST SIDE OF NORTH APPROACH OF AUSTIN AV	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW																	



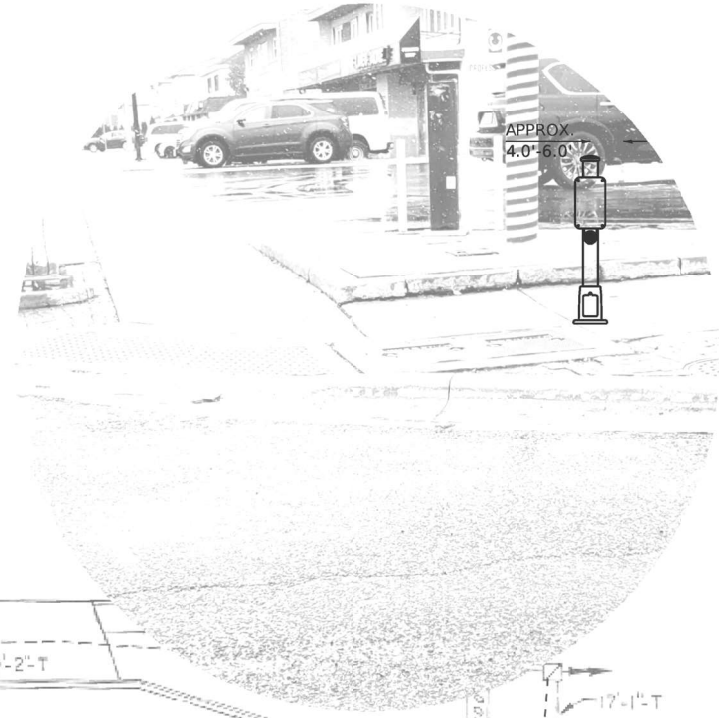
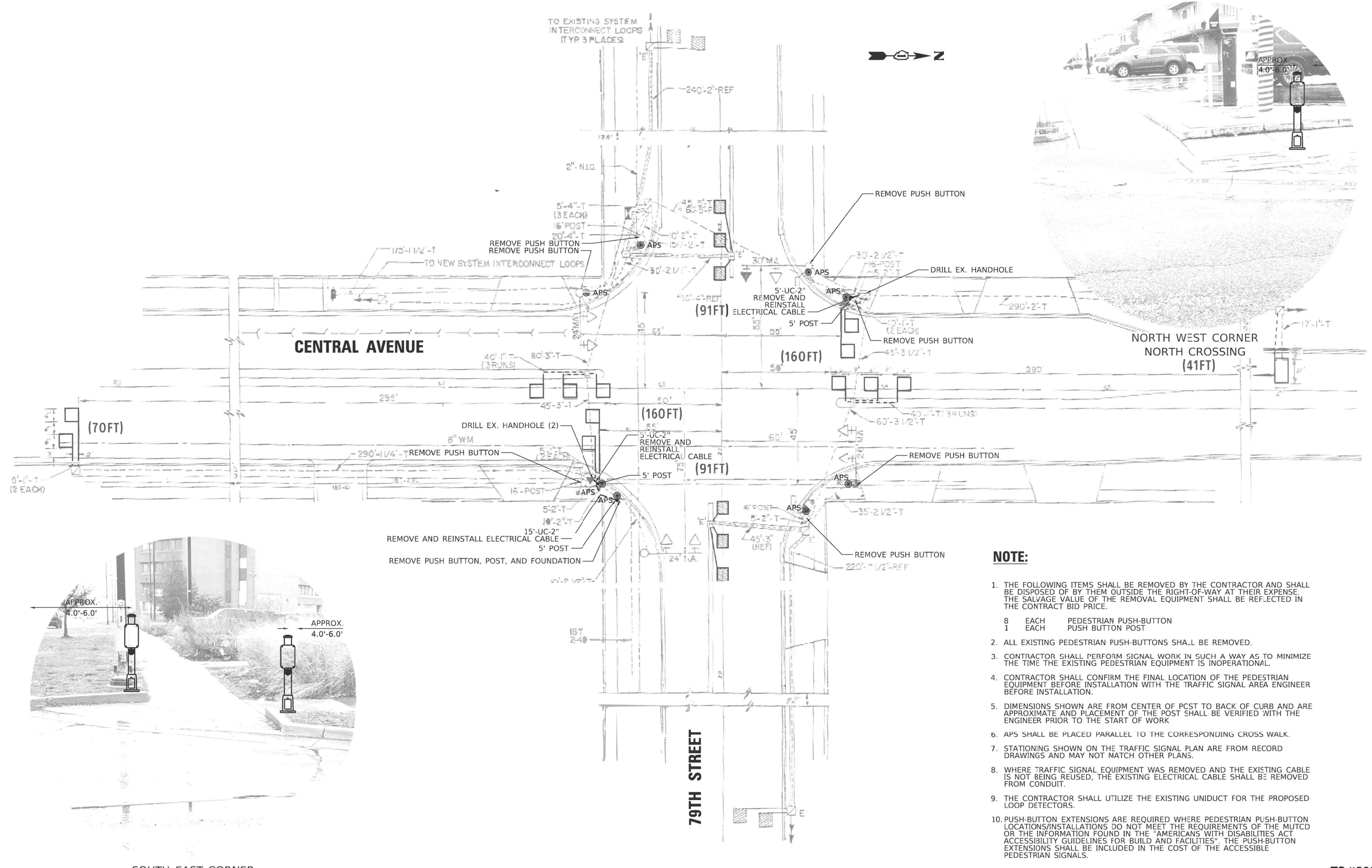
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PLOT DATE = 3/24/2023 1:29:54 PM	DATE - 12/16/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN  
EXISTING SEQUENCE OF OPERATIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	52
CONTRACT NO. 62R71				
ILLINOIS FED. AID PROJECT				



**NOTE:**

- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.  
 8 EACH PEDESTRIAN PUSH-BUTTON  
 1 EACH PUSH BUTTON POST
- ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
- CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
- CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
- DIMENSIONS SHOWN ARE FROM CENTER OF PCST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK
- APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
- STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
- WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
- THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
- PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.

SOUTH EAST CORNER

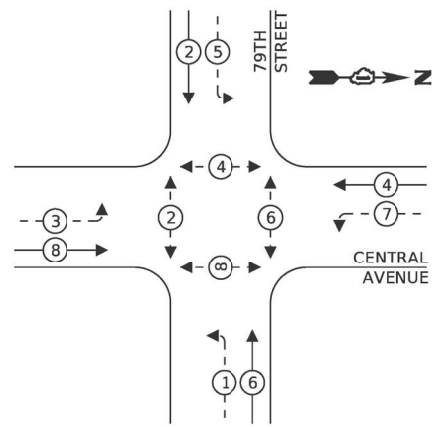
TS#3880

	USER NAME = dbennett	DESIGNED - DWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL PLAN</b> <b>79TH STREET AT CENTRAL AVENUE</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 40.0000' / in.	CHECKED - BKS	REVISED -		CONTRACT NO. 62R71								
	PLOT DATE = 3/24/2023 1:30:00 PM	DATE - 12/16/2022	REVISED -		ILLINOIS / FED. AID PROJECT								
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.			



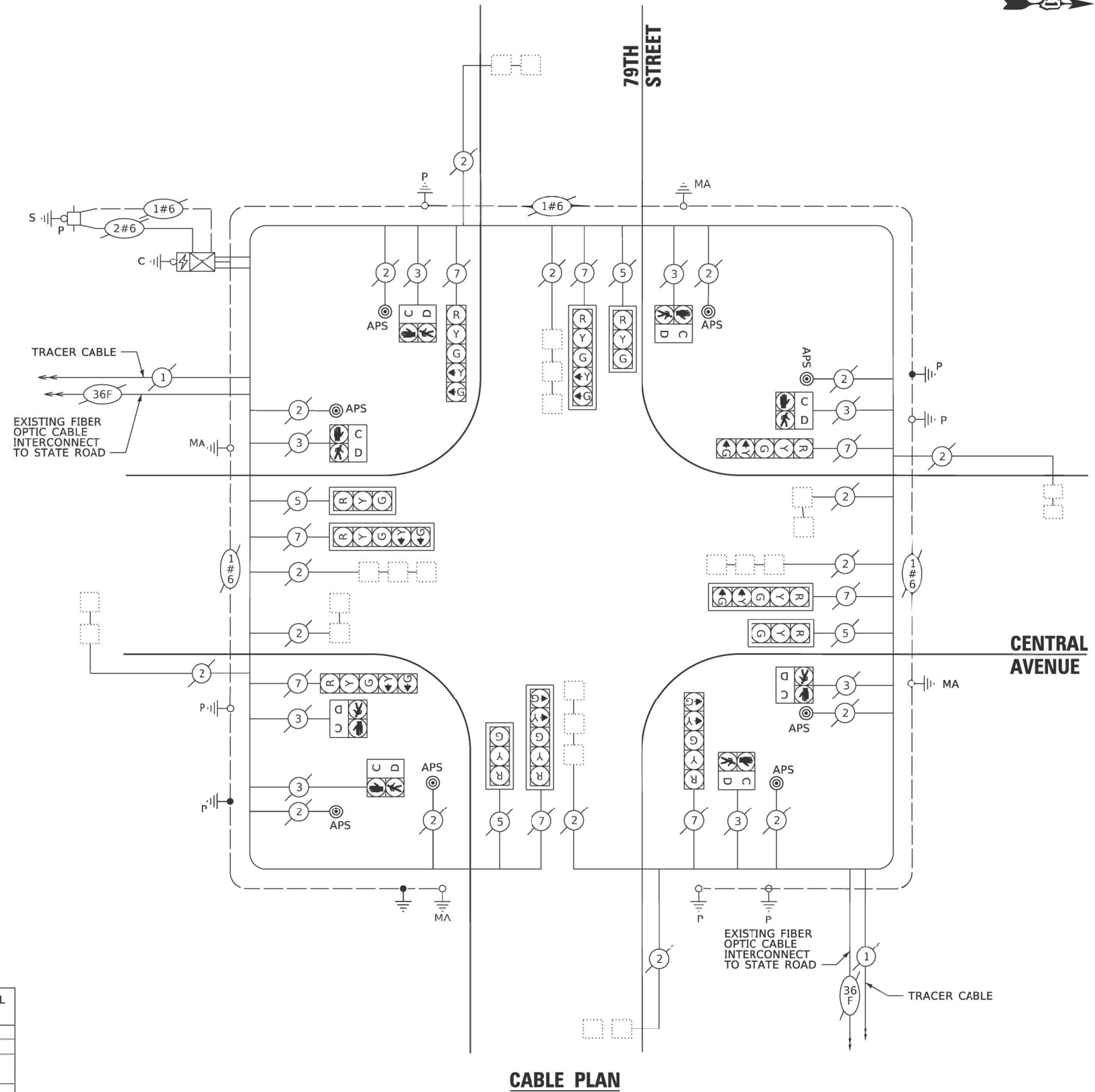


### EXISTING CONTROLLER SEQUENCE



### LEGEND:

- ← \* → PROTECTED PHASE
- ← \* - - PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP



**CABLE PLAN**

### TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	32	10	10	32.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>531.2</b>

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
DRILL EXISTING HANDHOLE	EACH	3
DETECTOR LOOP, TYPE I	FOOT	613
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	80
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

**CITY OF BURBANK**  
6530 W 79TH #2  
BURBANK, IL 60459

ENERGY SUPPLY: CONTACT: --  
PHONE: --  
COMPANY: COMMONWEATH EDISON  
ACCOUNT NUMBER: #19210-46023

TS SHT NO. 23



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DESIGNED - DWB  
 DRAWN - MMC  
 CHECKED - BKS  
 DATE - 12/16/2022

REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
79TH STREET AT CENTRAL AVENUE**

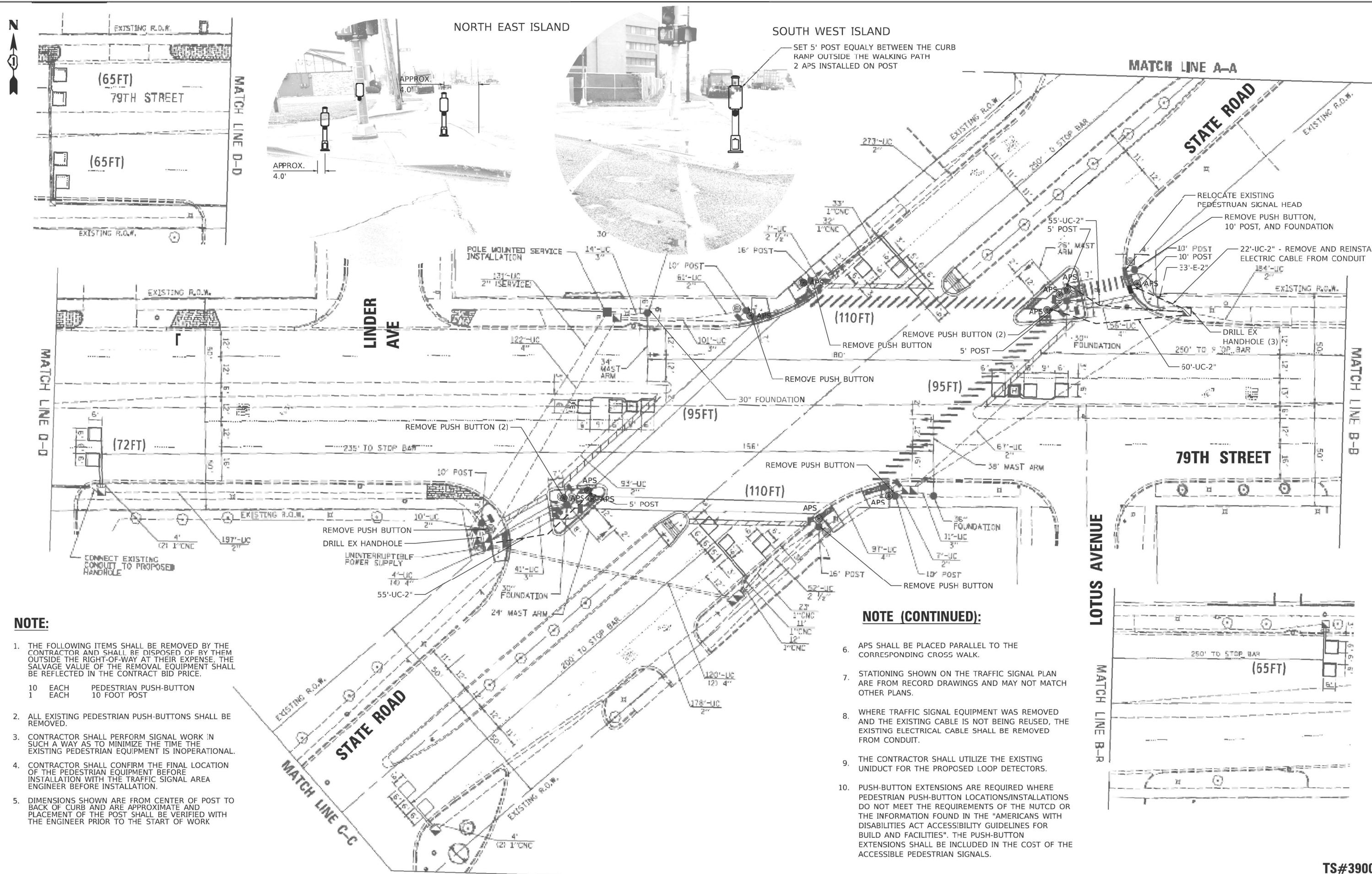
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548	1548/1549 22 RESURFACE	COOK	76	54

CONTRACT NO. 62R71  
ILLINOIS FED. AID PROJECT

**TS#3880**

MODEL: Defaul  
FILE: W:\MISC\_PLOT\_209\_000\_IDOT\_PTB\_173\_12\_Traffic\_Signal\_Design\Design\LED\_Lamps\_Uprate\ts#3880-79TH-CENTRAL.dwg



**NOTE:**

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVAL EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.  

10	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	10 FOOT POST
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
5. DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK

**NOTE (CONTINUED):**

6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.
7. STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND MAY NOT MATCH OTHER PLANS.
8. WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED AND THE EXISTING CABLE IS NOT BEING REUSED, THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.
9. THE CONTRACTOR SHALL UTILIZE THE EXISTING UNIDUCT FOR THE PROPOSED LOOP DETECTORS.
10. PUSH-BUTTON EXTENSIONS ARE REQUIRED WHERE PEDESTRIAN PUSH-BUTTON LOCATIONS/INSTALLATIONS DO NOT MEET THE REQUIREMENTS OF THE MUTCD OR THE INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILD AND FACILITIES". THE PUSH-BUTTON EXTENSIONS SHALL BE INCLUDED IN THE COST OF THE ACCESSIBLE PEDESTRIAN SIGNALS.



USER NAME = dbennett	DESIGNED - DWB	REVISED -
PEN TABLE = D162R71.tbl	DRAWN - MMC	REVISED -
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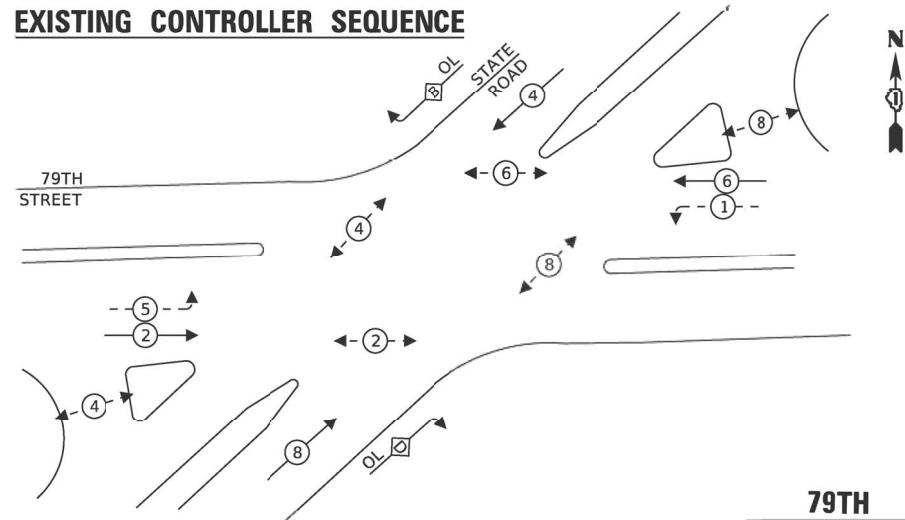
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN  
79TH STREET AT STATE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	22 RESURFACE	COOK	70	55
				CONTRACT NO. 62R71
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

**RIGHT TURN OVERLAP  
PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

EXISTING INTERCONNECT TO CENTRAL AVENUE

TRACER CABLE

79TH STREET

STATE ROAD

**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	12	20	100	240.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>595.2</b>

ENERGY COSTS TO:

ENERGY SUPPLY: CONTACT: COMMON WEATH EDISON  
PHONE: 866-639-3532  
COMPANY: COMMON WEATH EDISON  
ACCOUNT NUMBER: ---

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	192
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1162
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	270
DRILL EXISTING HANDHOLE	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	677
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1013
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	90
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
PEDESTRIAN TRAFFIC SIGNAL POST, 5FT.	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS SHT NO. 25

MODEL: ts\_sht\_25.dwg; FILE NAME: P:\02\_209\_001\_IDOT\_PTB\_173\_12\_Traffic\_Signal\_Design\Design\VIDEO\APS\_Upgrade\CADD\CADD\_Sheets\6271\_CablePlan\ts3900-79thStateRD.dgn



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

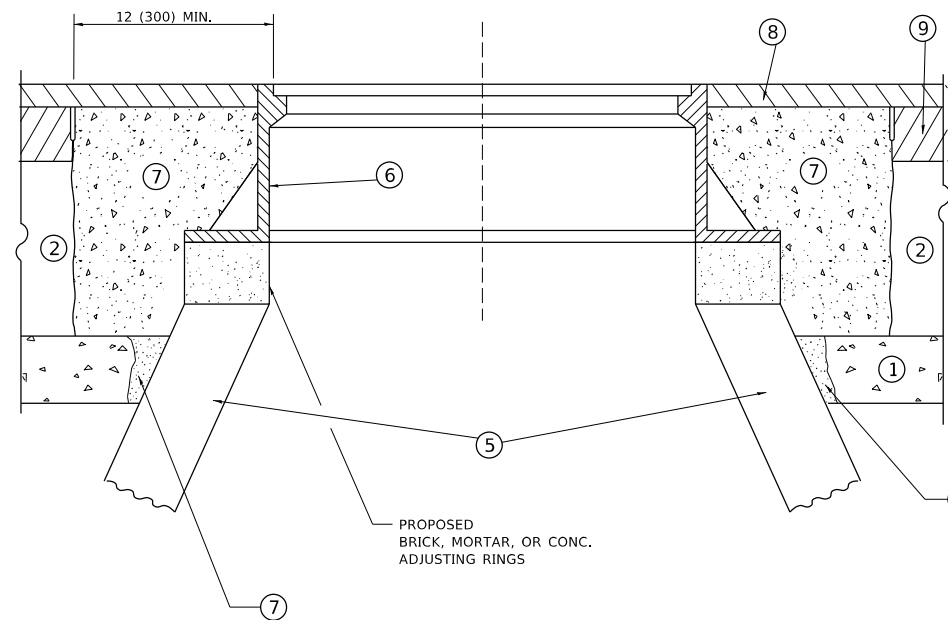
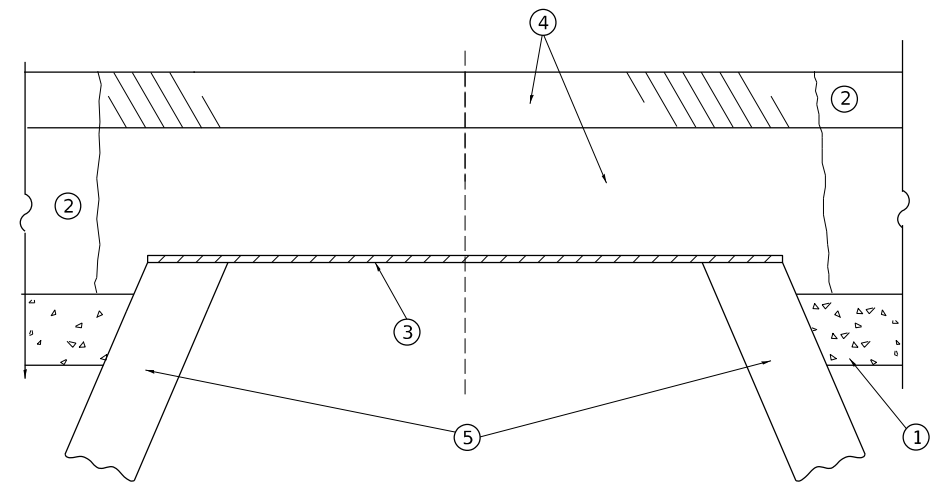
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
79TH STREET AT STATE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549 22 RESURFACE		COOK	76	56
			CONTRACT NO. 62R71	
		ILLINOIS	FED. AID PROJECT	

TS#3900





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

**NOTES**

1. 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.
2. 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.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

**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-2\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

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

**LOCATION OF STRUCTURES**

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

**BASIS OF PAYMENT**

1. 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)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL NUMBER: 1548/1549  
FILE NAME: 31115

USER NAME = SUSERS	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 5SCALES	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = SDATES	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

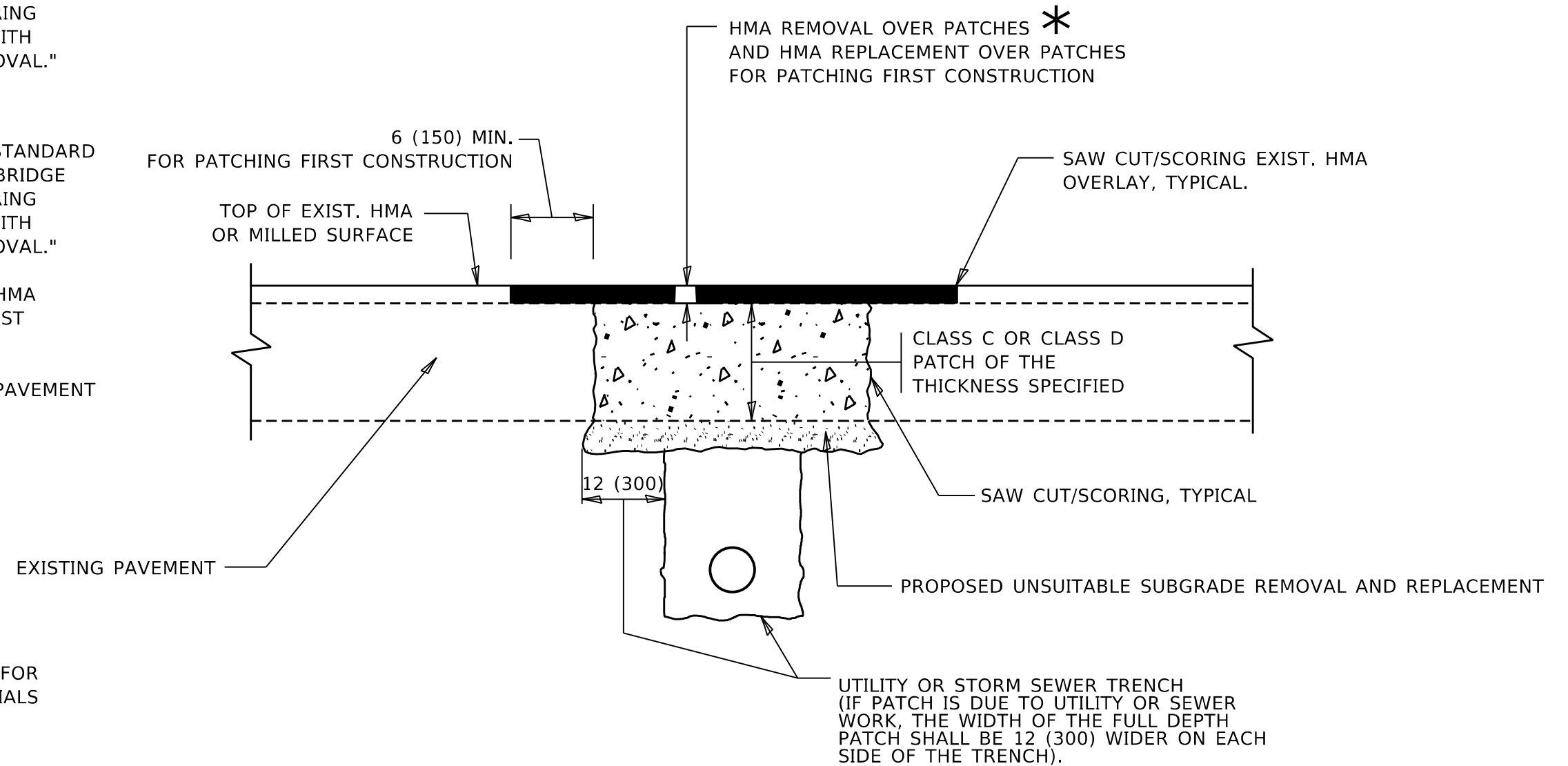
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 57
BD600-03 (BD-08)		CONTRACT NO. 62R71		
ILLINOIS		FED. AID PROJECT		

**METHOD OF MEASUREMENT**

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

**BASIS OF PAYMENT**

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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.

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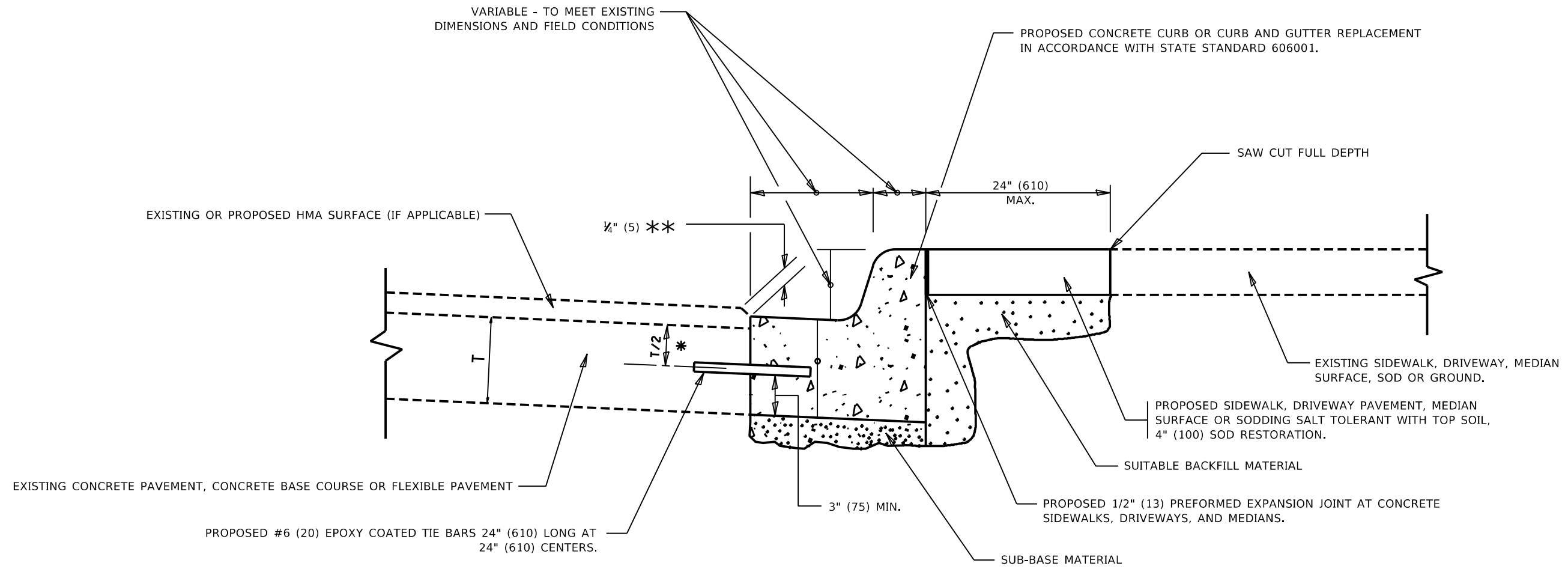
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	DRAWN -	REVISED - R. BORO 09-04-07
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 6/13/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

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

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 58
BD400-04 (BD-22)		CONTRACT NO. 62R71		
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.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

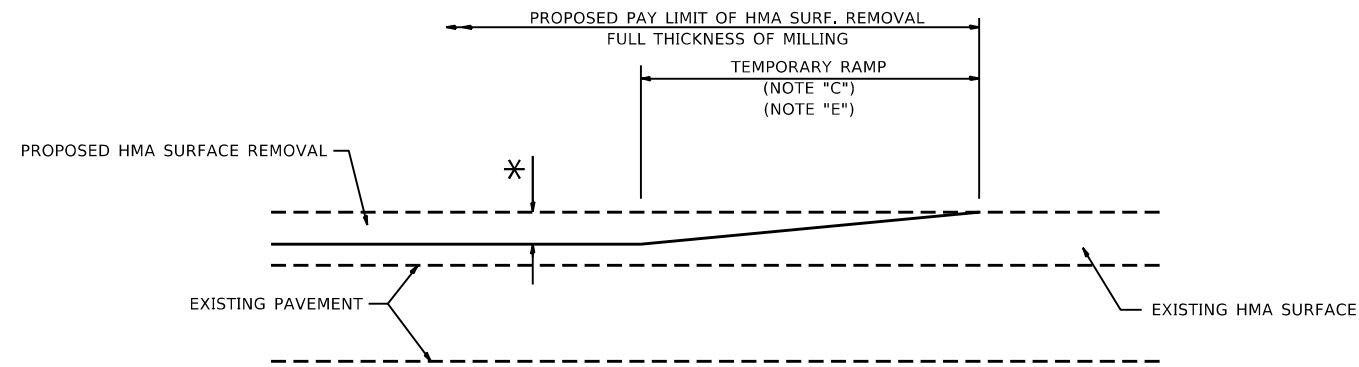
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 6/13/2023	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

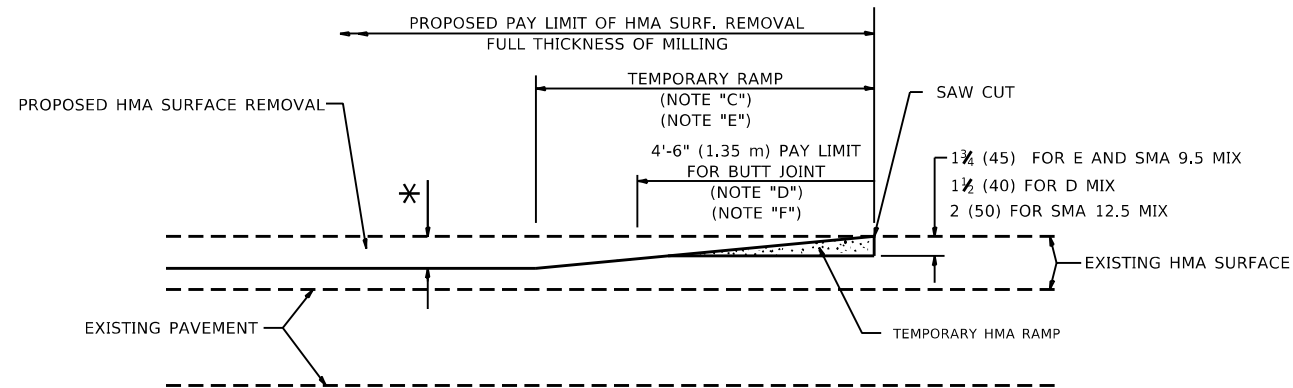
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	59
<b>BD600-06 (BD-24)</b>		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

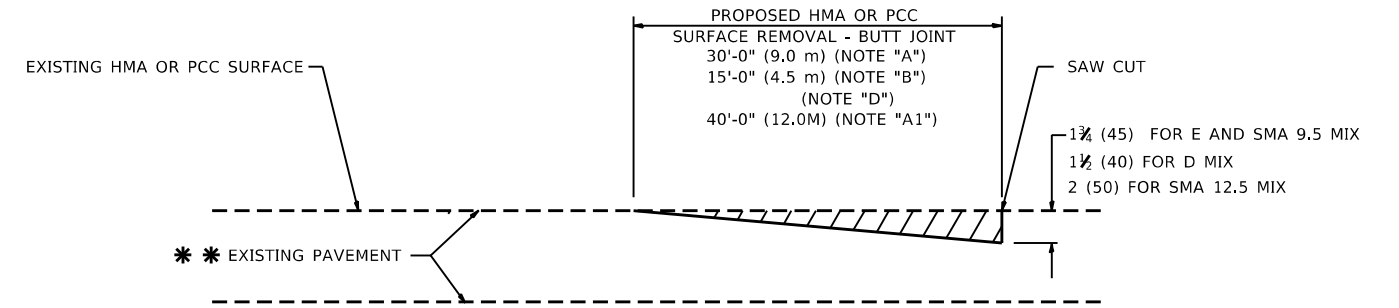


**HMA CONSTRUCTED TEMPORARY RAMP**

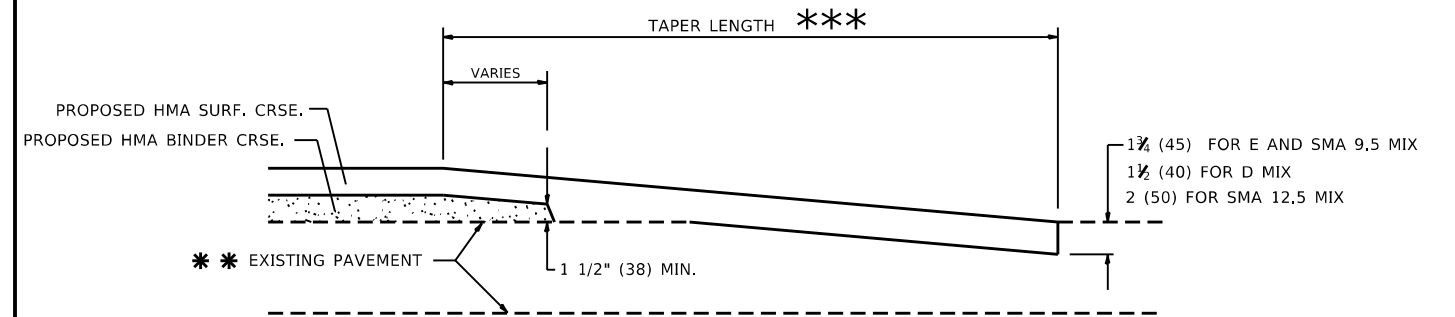
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

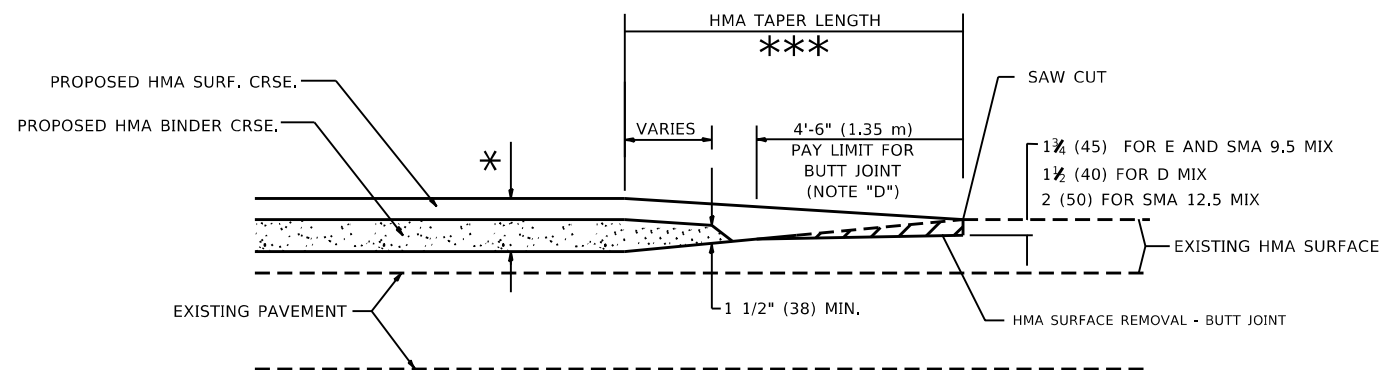
**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 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**

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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FILE NAME: ...

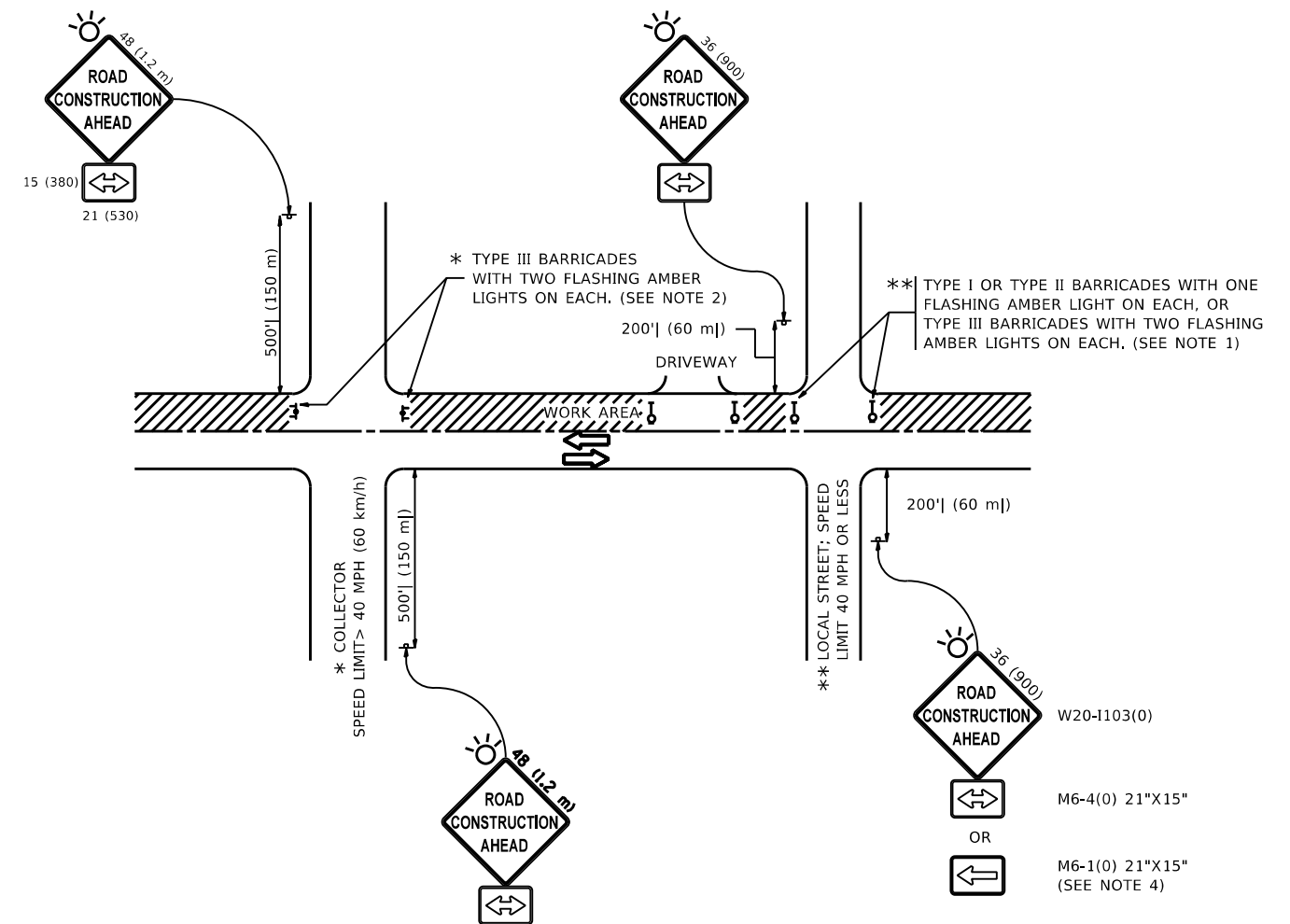
USER NAME = Phillip.Steed	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 6/13/2023	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.	
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BUTT JOINT AND  
HMA TAPER DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	60
BD400-05 BD-32		CONTRACT NO. 62R71		
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) 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. 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.

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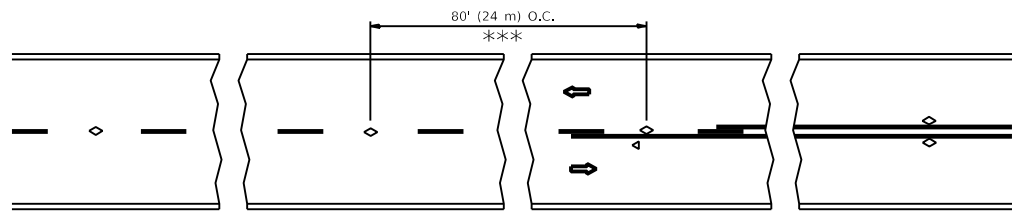
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 6/13/2023	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

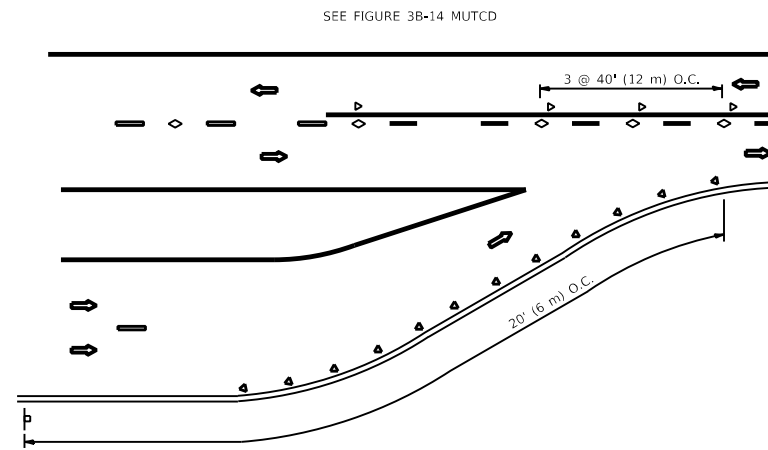
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	61
TC-10			CONTRACT NO. 62R71	
ILLINOIS FED. AID PROJECT				

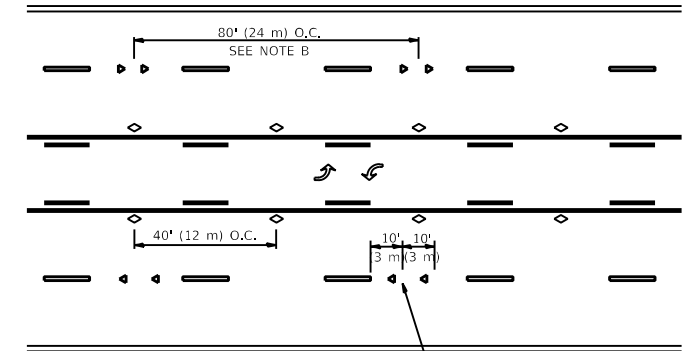


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

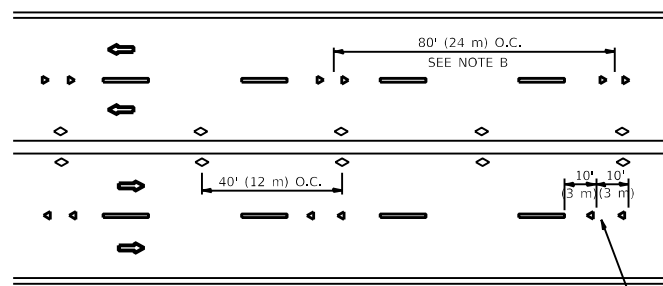
**TWO-LANE/TWO-WAY**



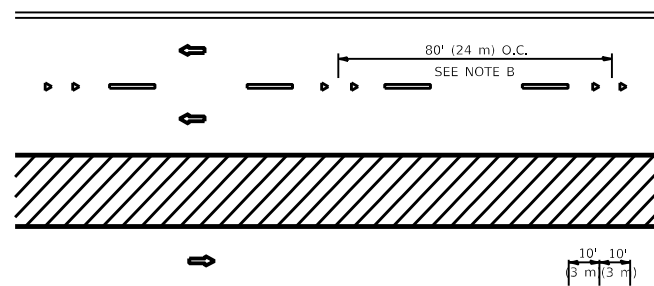
**LANE REDUCTION TRANSITION**



**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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

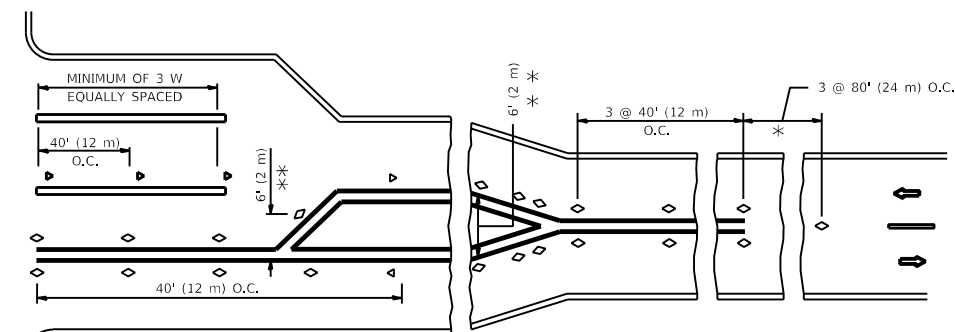
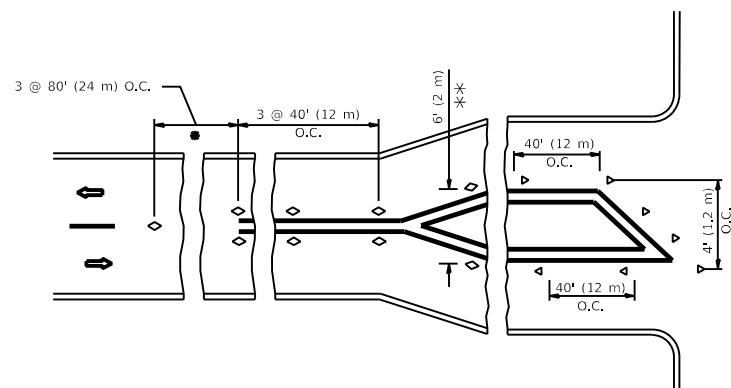
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

**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.



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

**TURN LANES**

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

MODEL: D:\draft\... FILE NAME: ...

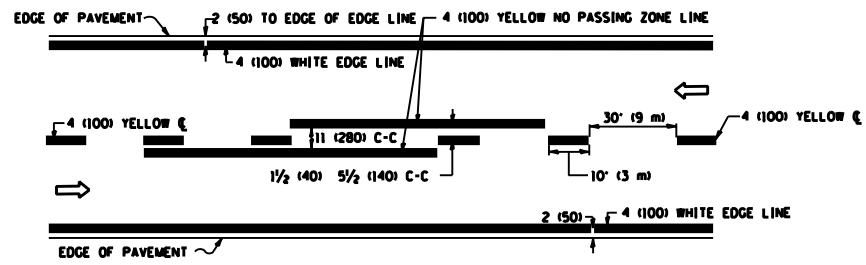
USER NAME = Phillip.Steed	DESIGNED -	REVISED - <b>T. RAMMACHER 03-12-99</b>
	DRAWN -	REVISED - <b>T. RAMMACHER 01-06-00</b>
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 6/13/2023	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

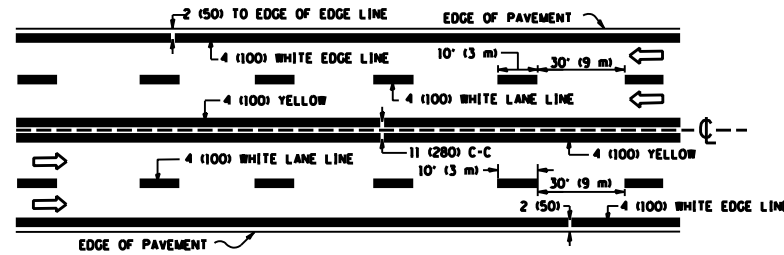
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

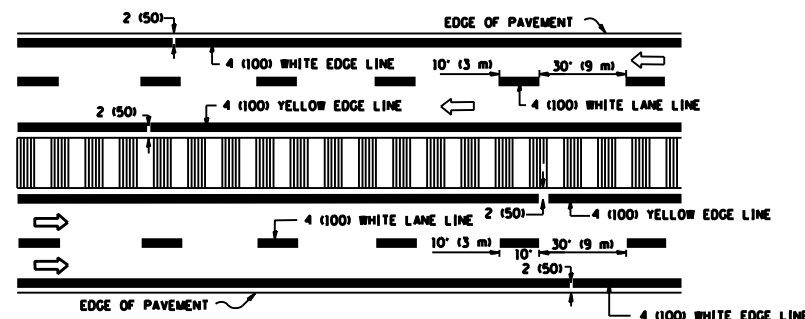
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 62
TC-11		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

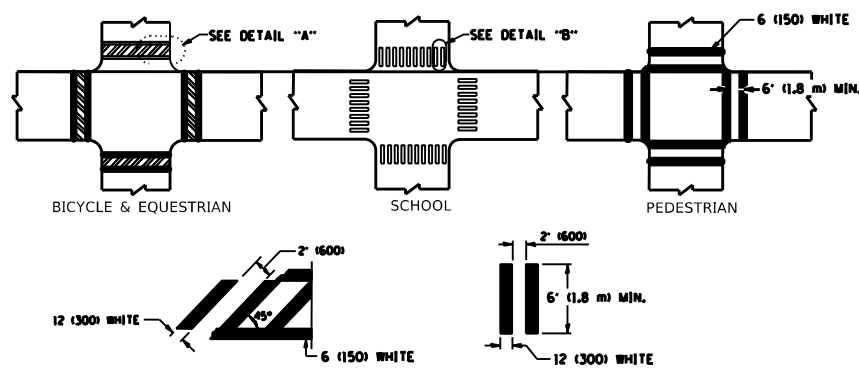


**MULTI-LANE UNDIVIDED**



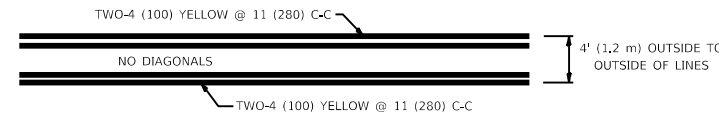
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

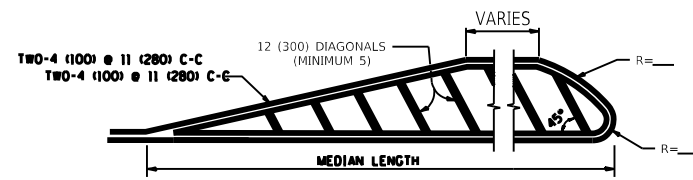


**TYPICAL CROSSWALK MARKING**

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



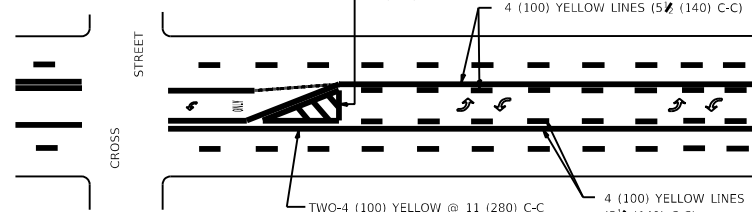
**4' (1.2 m) WIDE MEDIANS ONLY**



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

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

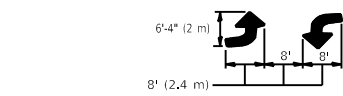
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



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

**TYPICAL PAINTED MEDIAN MARKING**

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.

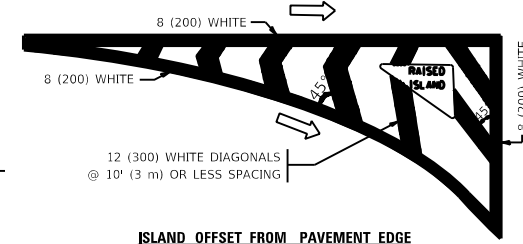


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

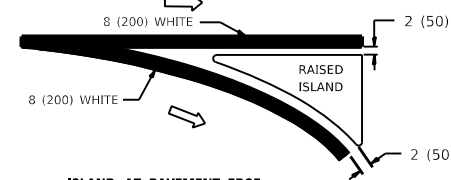
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**

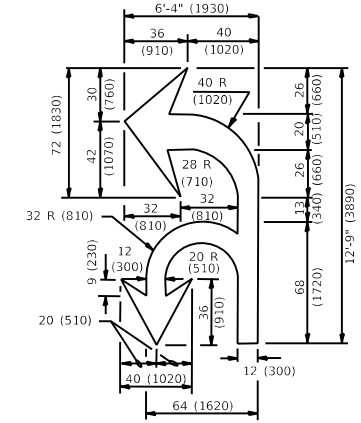


**ISLAND OFFSET FROM PAVEMENT EDGE**

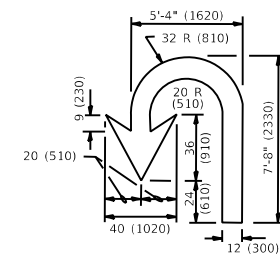


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
<b>LANE LINES</b>	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	<b>SOLID</b>	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 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	<b>SOLID</b>	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	<b>SOLID</b>	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	<b>SOLID</b>	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	<b>SOLID</b>	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.

MODEL: D:\p\m\work\standards\std0907071280.Dist\Std.dwg

USER NAME = Phillip.Steed	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 6/13/2023	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

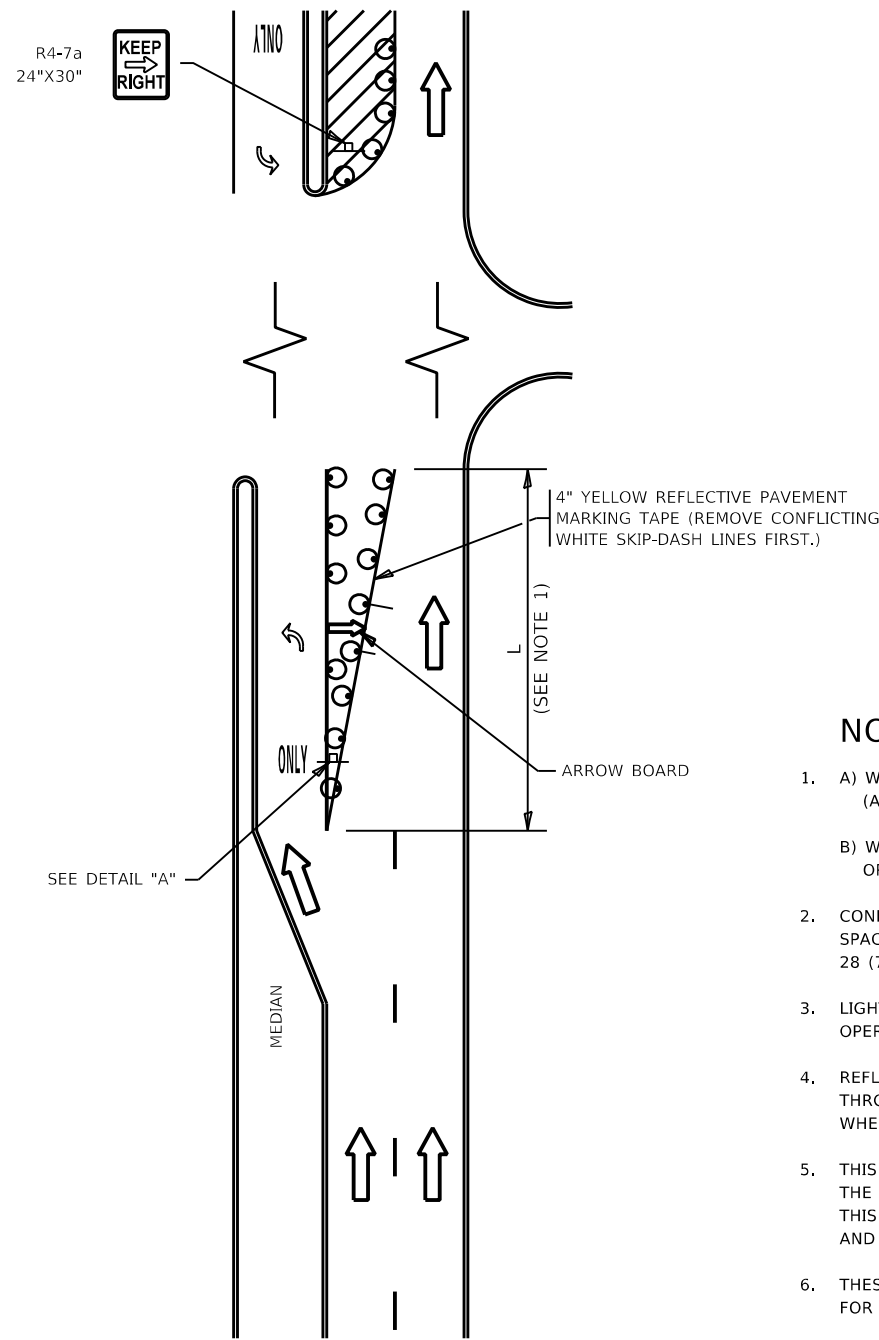
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

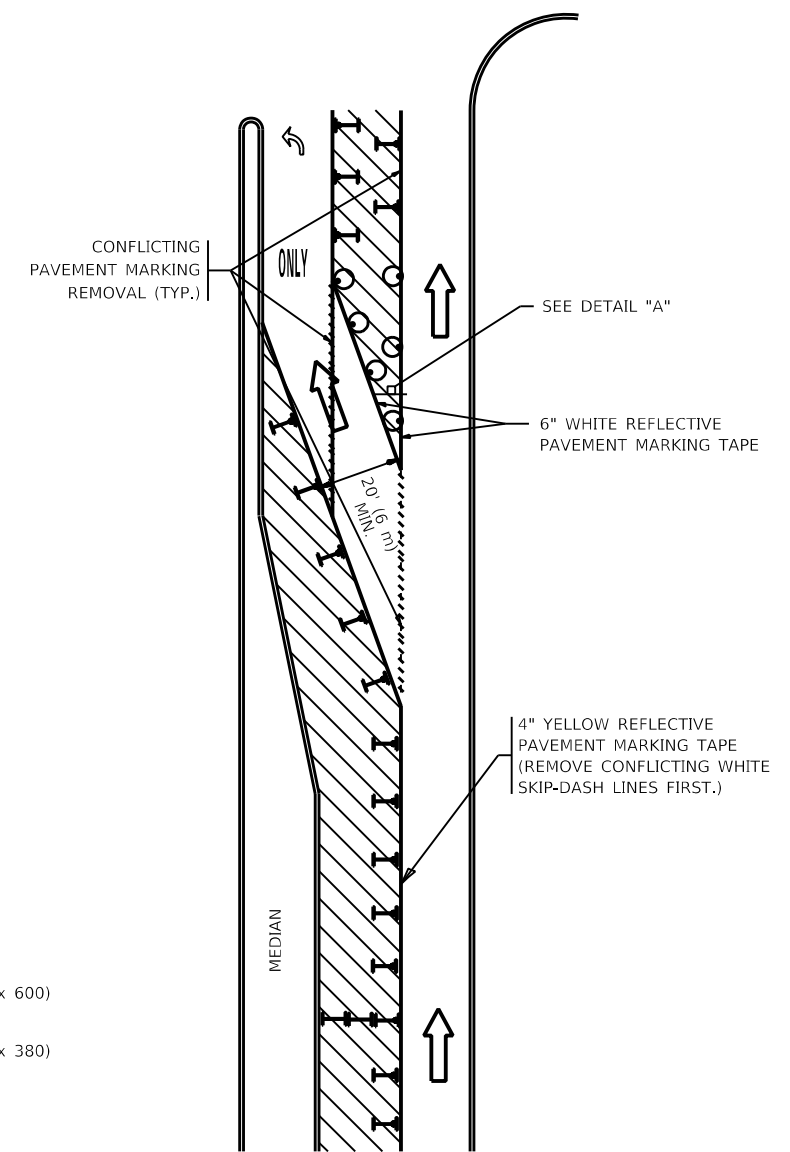
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	63
<b>TC-13</b>		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



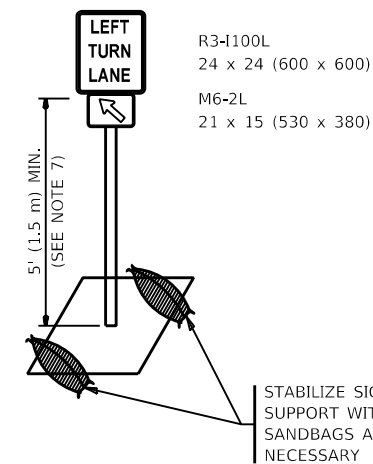
**FIGURE 2**

### LEGEND

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

### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-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 REQUIREMENTS.
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.

MODEL: Default  
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USER NAME = Phillip.Steed	DESIGNED - <b>T. RAMMACHER 09-08-94</b>	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - <b>A. SCHUETZE 07-01-13</b>
PLOT SCALE = 100,0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - <b>A. SCHUETZE 09-15-16</b>
PLOT DATE = 6/13/2023	DATE - <b>T. RAMMACHER 01-06-00</b>	REVISED -

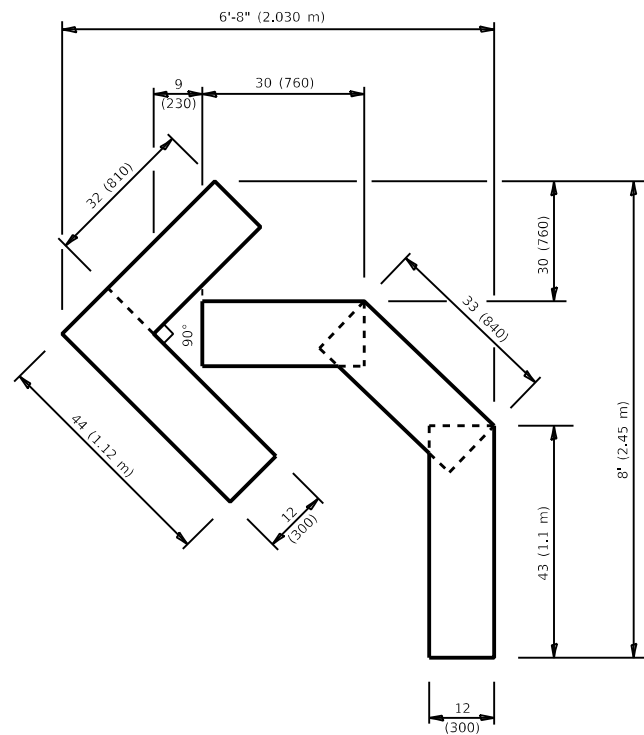
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

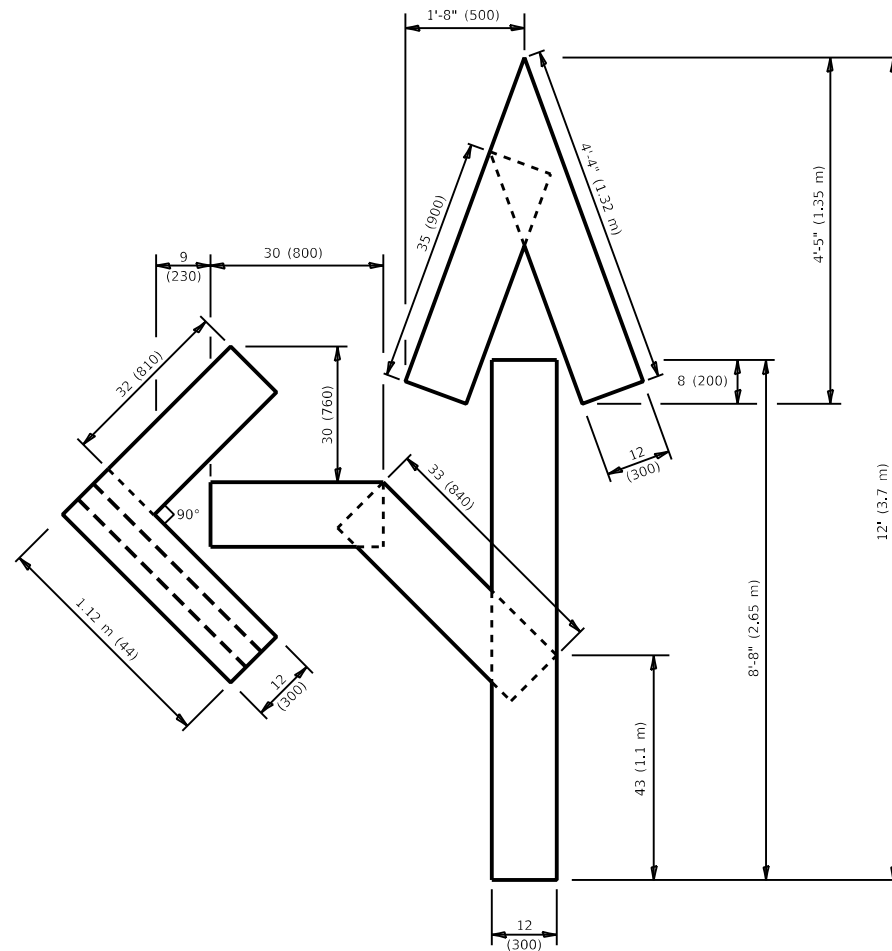
F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 64
TC-14			CONTRACT NO. 62R71	
ILLINOIS FED. AID PROJECT				





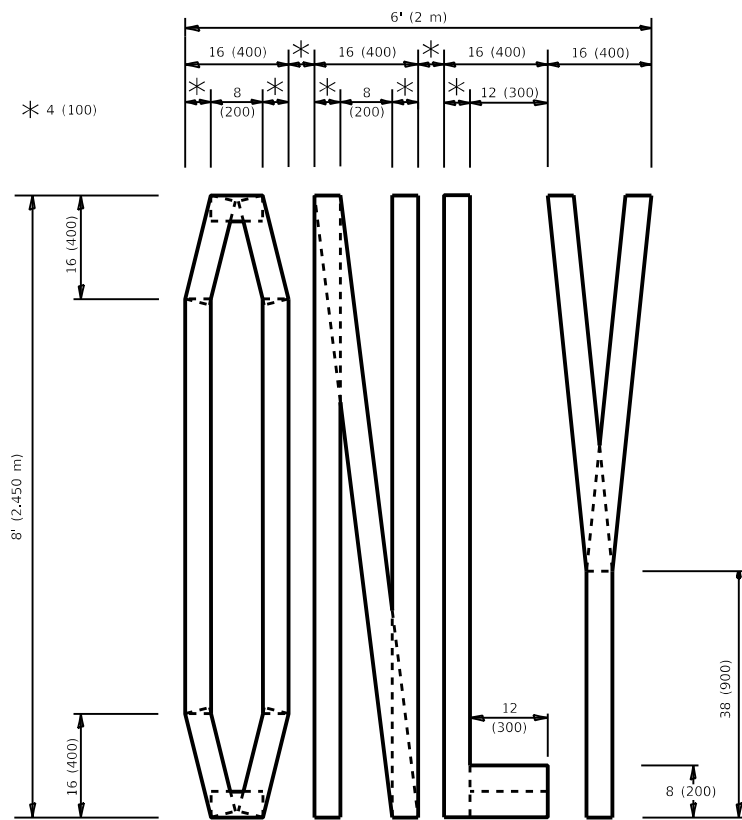
**QUANTITY**

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



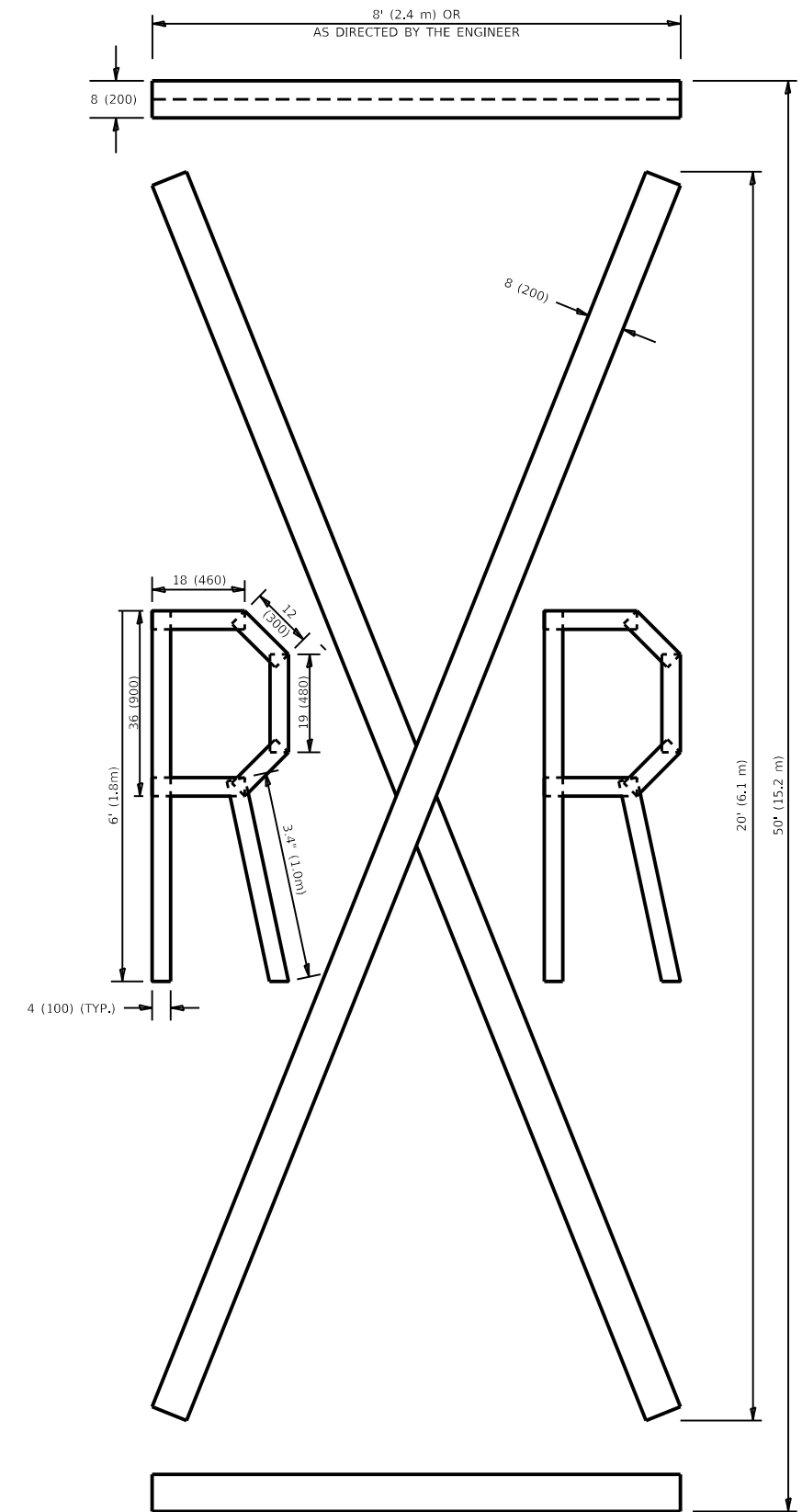
**QUANTITY**

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



**QUANTITY**

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



**QUANTITY**

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

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

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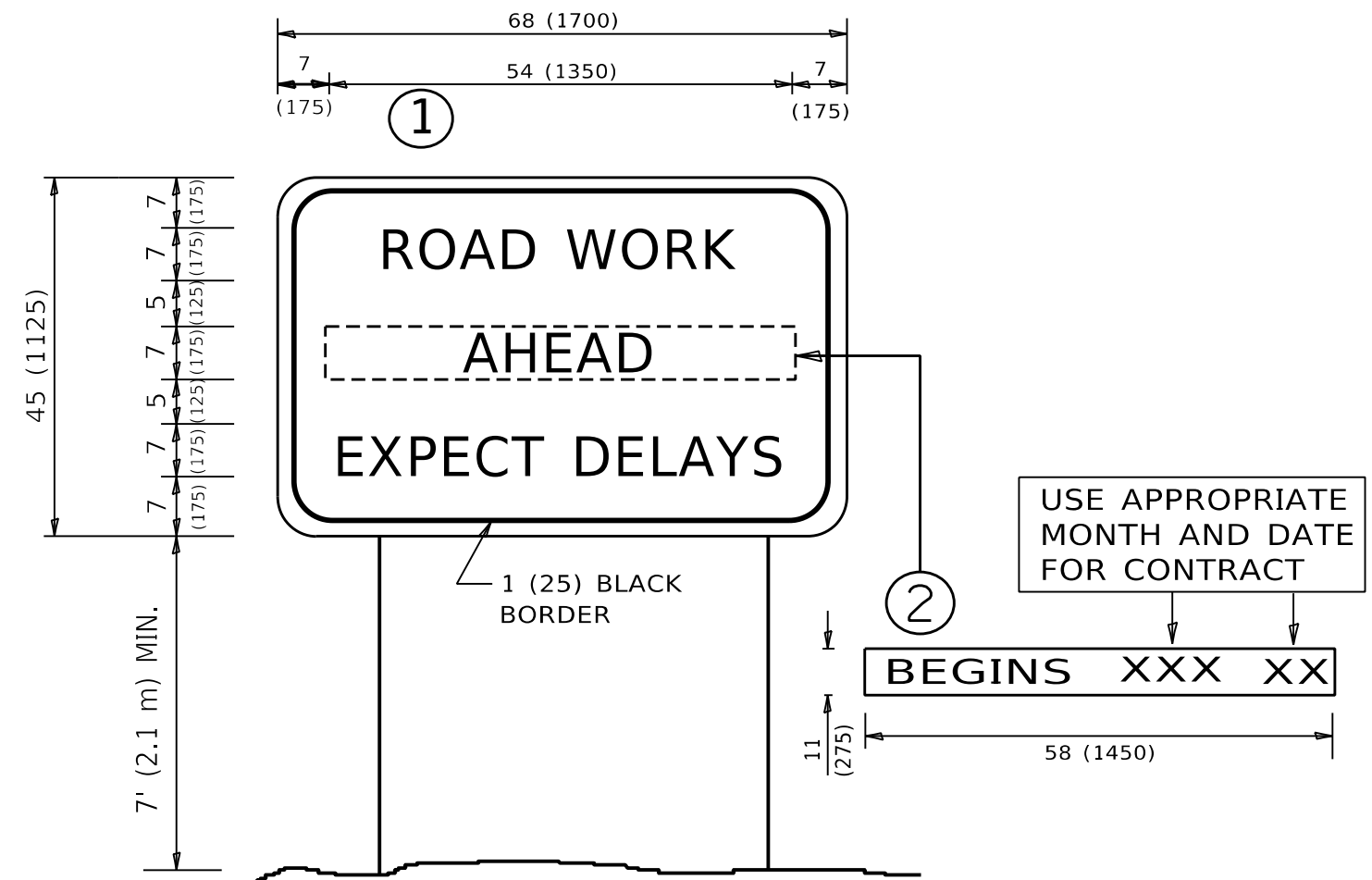
USER NAME = Phillip, Steed	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100,0010 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 6/13/2023	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	65
TC-16			CONTRACT NO. 62R71	
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.

MODEL: D:\draft\work\road\sign\aroad\0767128.DWG.dwg

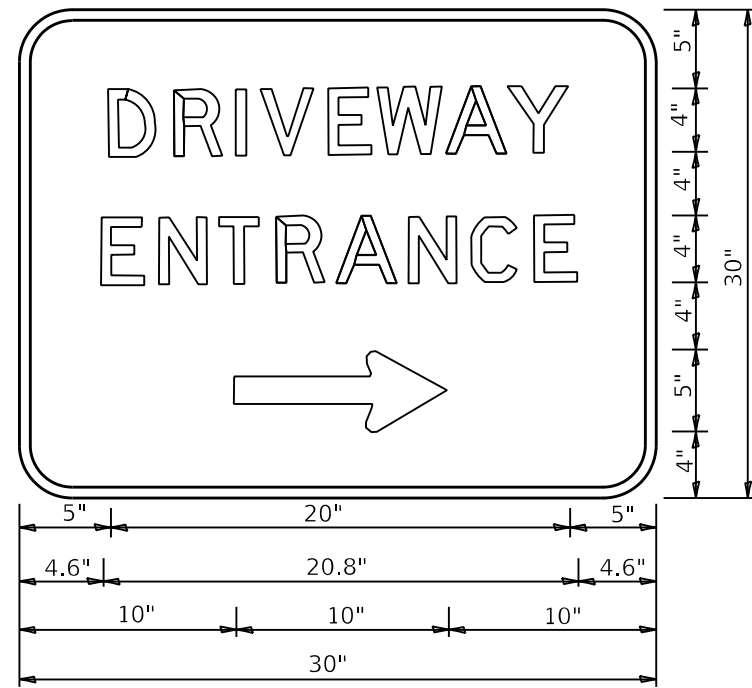
USER NAME = Phillip.Steed	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100,0010 ' / in.	CHECKED -	REVISED - <b>T. RAMMACHER 02-02-99</b>
PLOT DATE = 6/13/2023	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	66
TC-22			CONTRACT NO. 62R71	
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".

MODEL: D:\default... FILE NAME: sign... work\road\sign\resurf\0767128.DriveEntr.dwg

USER NAME = Phillip.Steed	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 100,0010' / in.	CHECKED -	REVISED -
PLOT DATE = 6/13/2023	DATE -	REVISED -

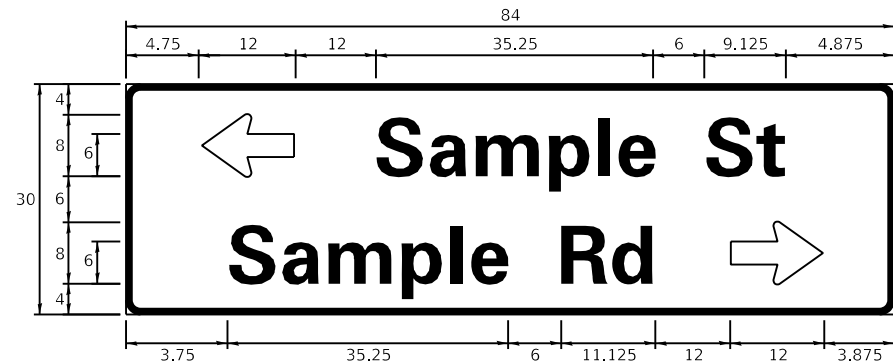
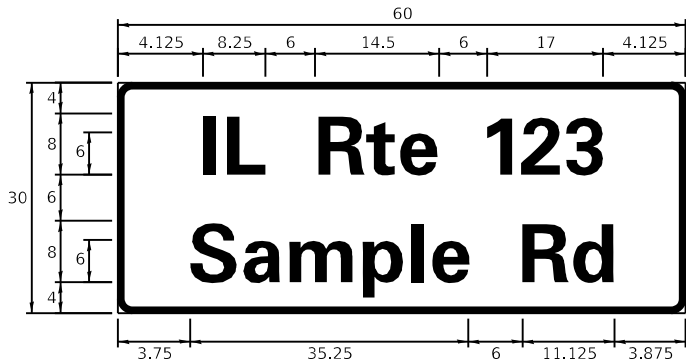
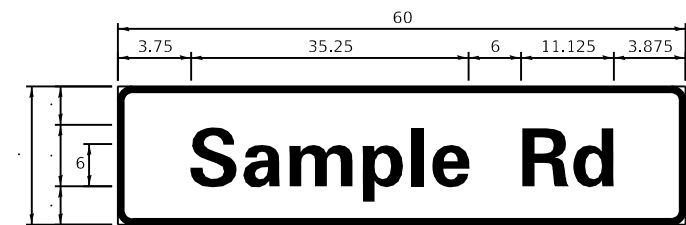
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1548/1549	1548/1549 22 RESURFACE	COOK	76	67
<b>TC-26</b>			CONTRACT NO. 62R71	
ILLINOIS FED. AID PROJECT				

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

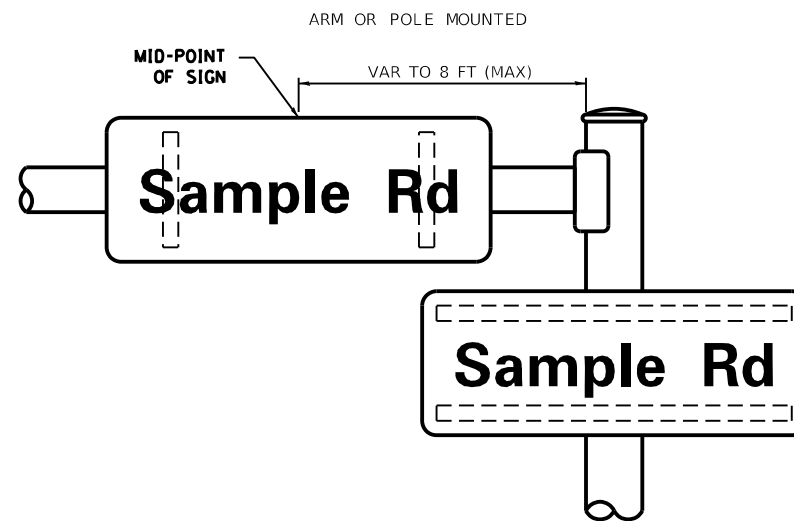
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

**STANDARD ALPHABETS SPACING CHART**

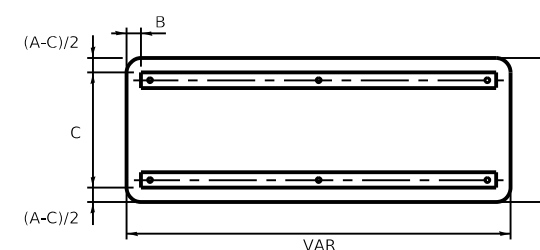
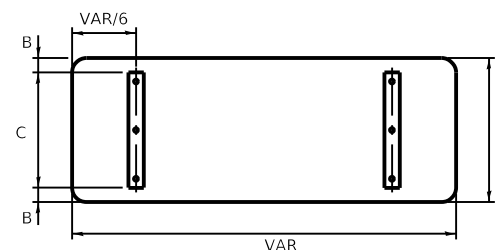
(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



A	B	C
18"	2"	14"
30"	2"	24"

A	B	C
18"	2"	12"
30"	2"	22"

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
MAST ARM MOUNTED STREET NAME SIGNS

USER NAME = Phillip.Steed	DESIGNED - LP/IP	REVISED - LP 07/01/2015
PLOT SCALE = 100,0010' / in.	DRAWN - LP	REVISED -
PLOT DATE = 6/13/2023	CHECKED - IP	REVISED -
	DATE - 10/01/2014	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 60
TS-02		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

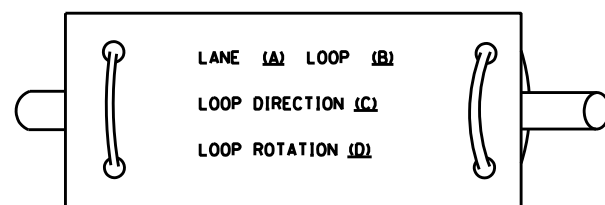
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			-ROUND			-(P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE					
MASTER MASTER CONTROLLER			-ROUND			SIGNAL HEAD WITH BACKPLATE		
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			-(P) PROGRAMMABLE SIGNAL HEAD		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			-(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM					
-(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
TELEPHONE CONNECTION			RAILROAD CROSSING GATE			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
WOOD POLE			SYSTEM ITEM	S	SP	COAXIAL CABLE		
GUY WIRE			INTERSECTION ITEM	I	IP	VENDOR CABLE		
SIGNAL HEAD			REMOVE ITEM		R	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM		RL	FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM		A	-NO. 62.5/125, MM12F SM12F		
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	-NO. 62.5/125, MM12F SM24F		
			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	GROUND ROD -(C) CONTROLLER		
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	-(M) MAST ARM		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I			-(P) POST		
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP			-(S) SERVICE		
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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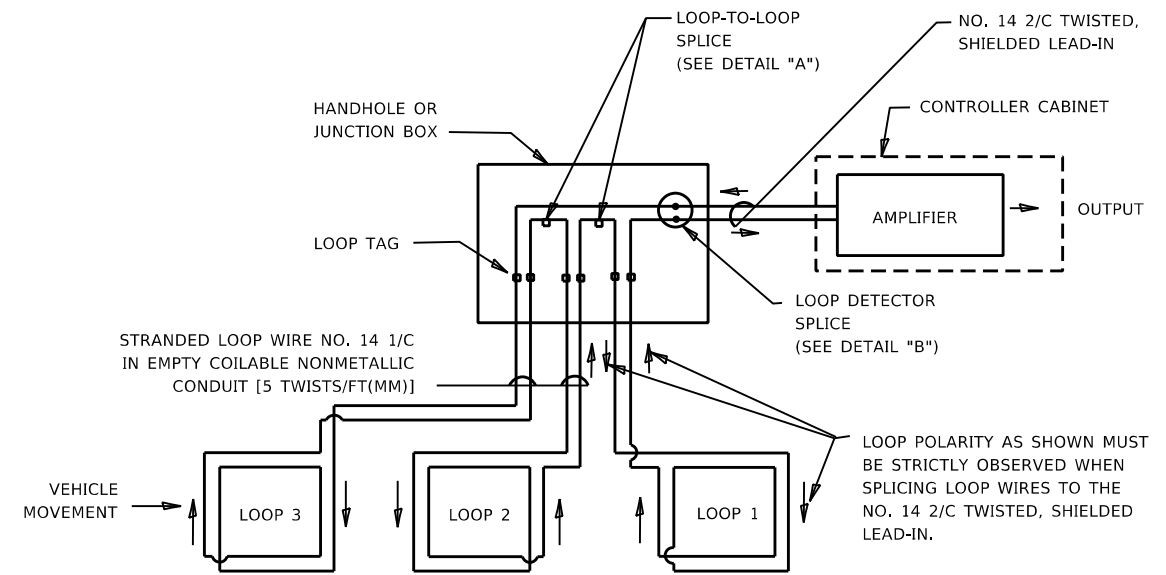
**LOOP DETECTOR NOTES**

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**

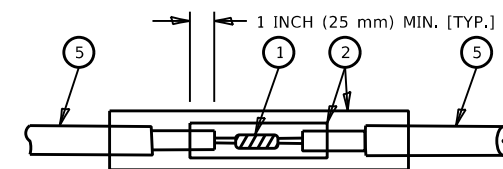


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

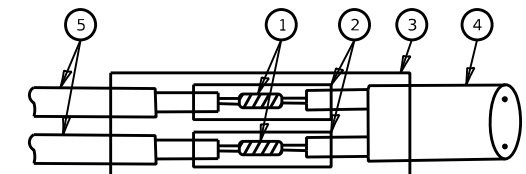


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

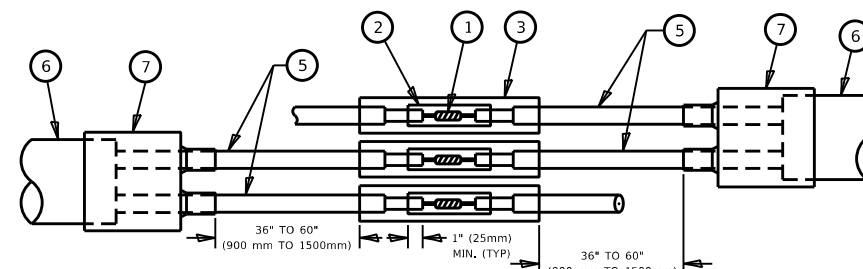


DETAIL "A"  
LOOP-TO-LOOP SPLICE

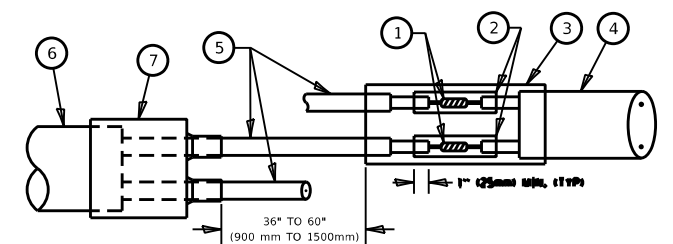


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE, PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

MODEL: Default  
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USER NAME = Phillip, Steed	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,1044' / in.	CHECKED -	REVISED -
PLOT DATE = 6/13/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

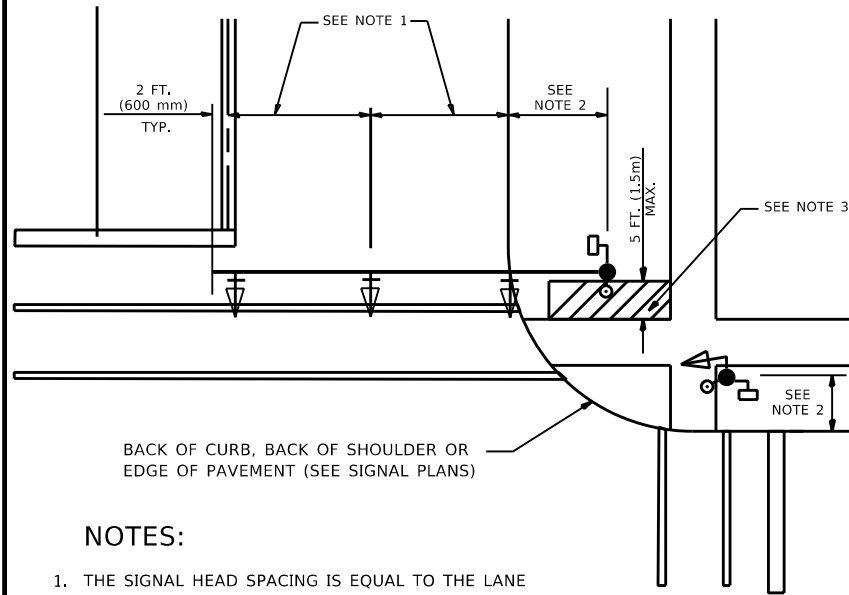
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 70
TS-05			CONTRACT NO. 62R71	
ILLINOIS FED. AID PROJECT				

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

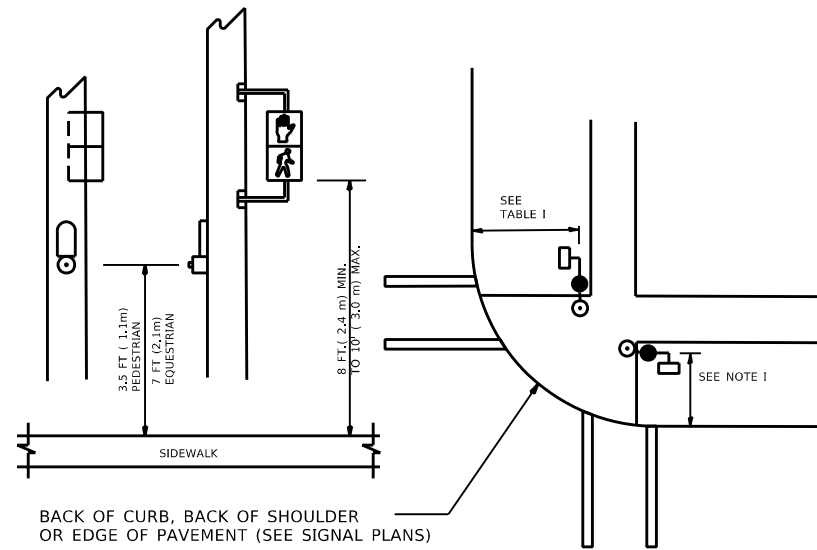
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

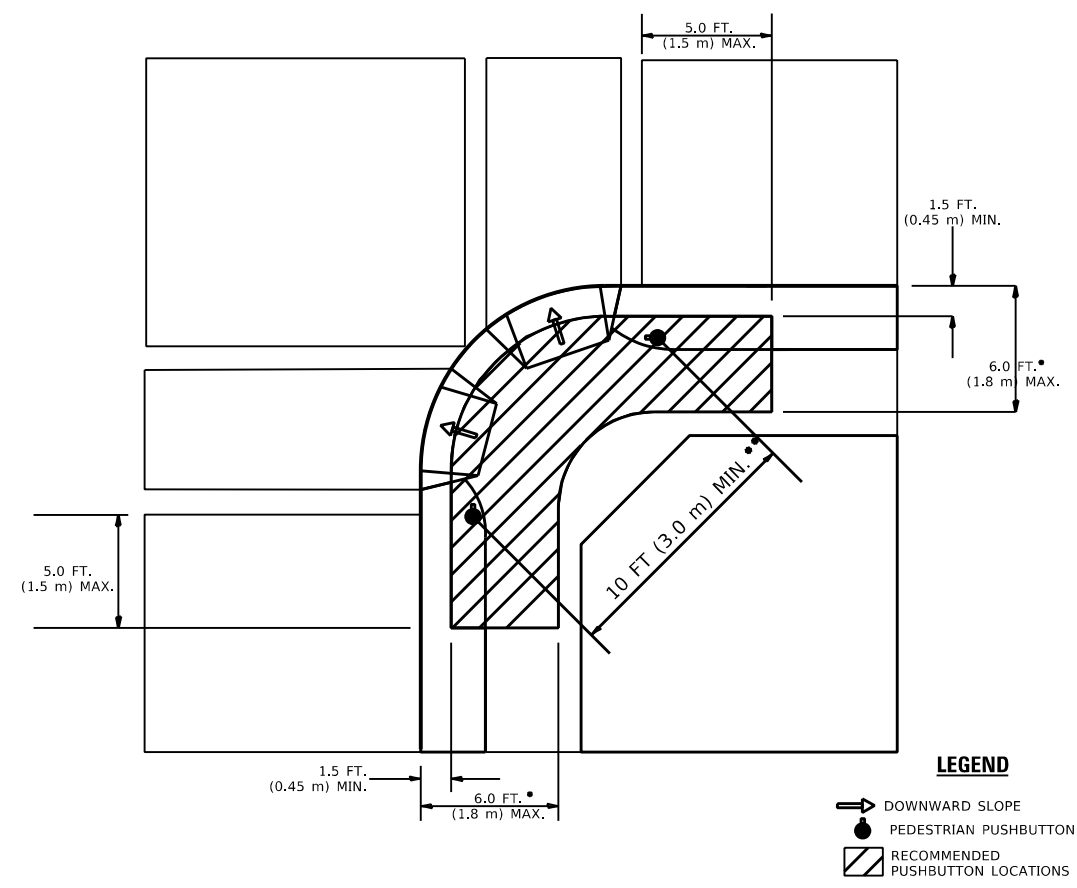
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- \* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

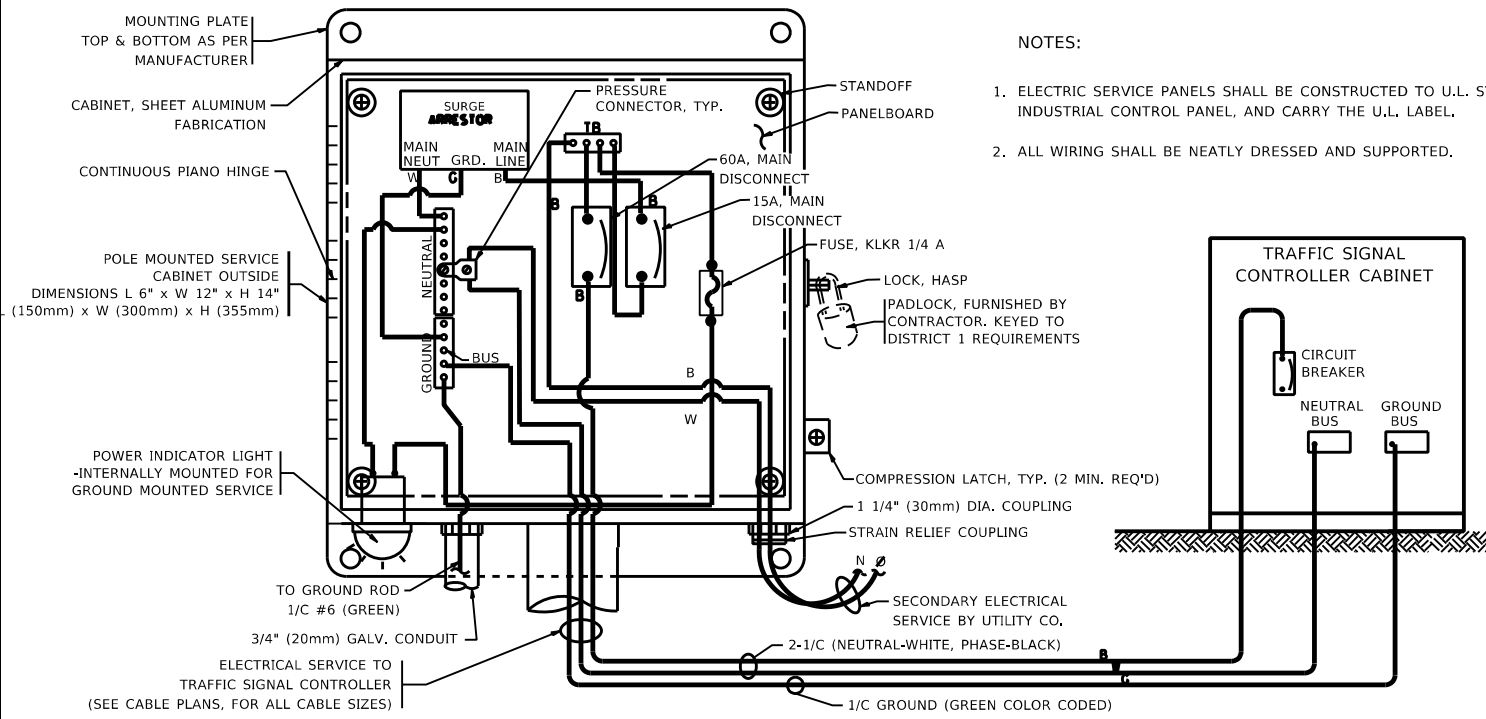
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

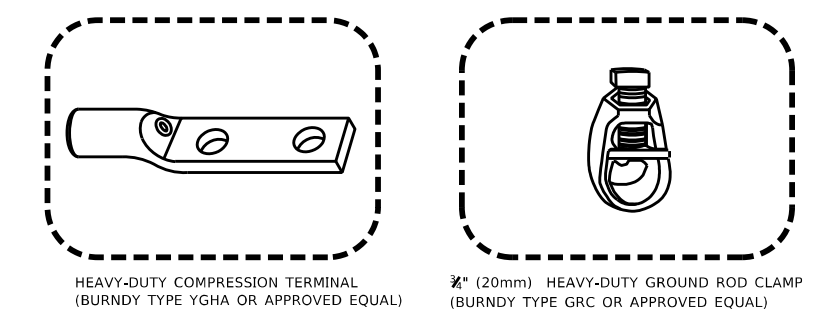
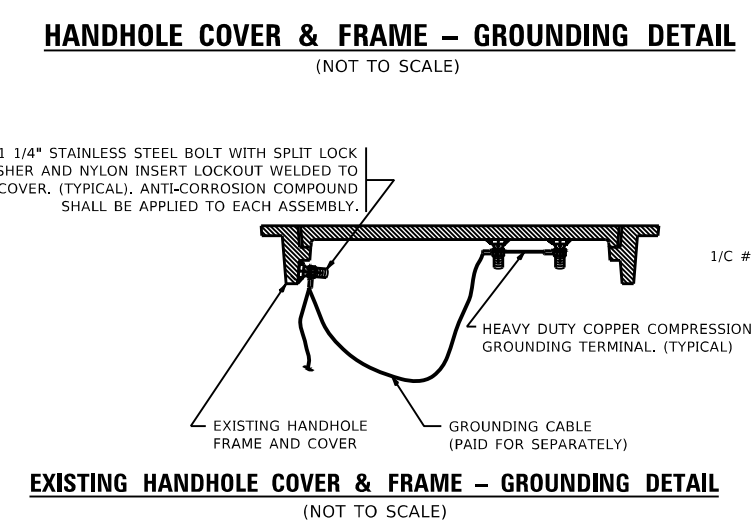
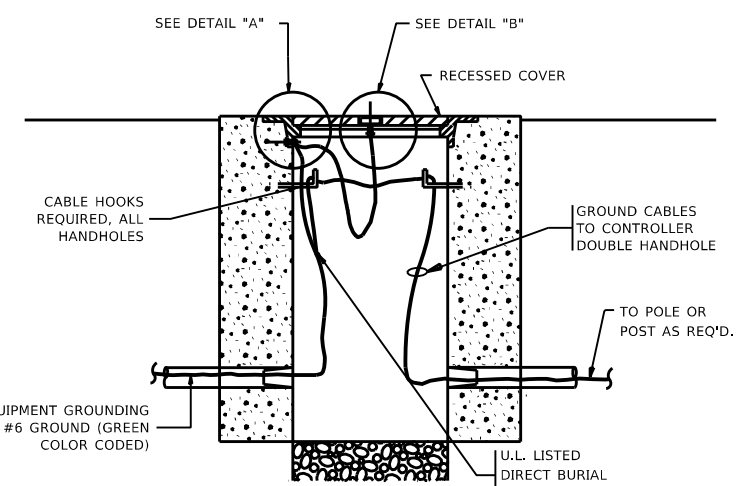
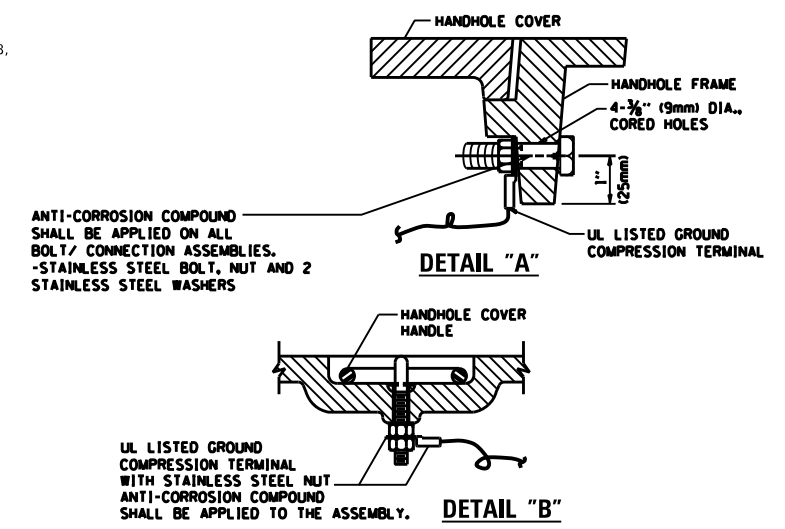
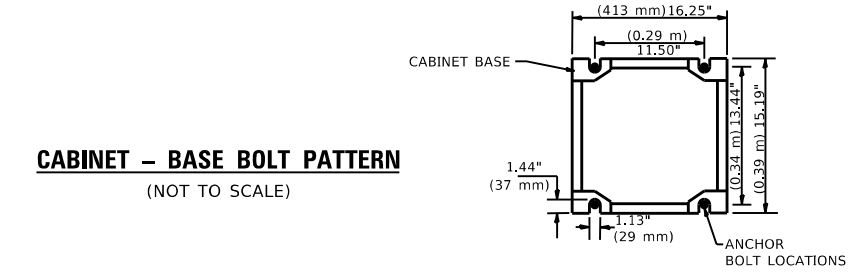
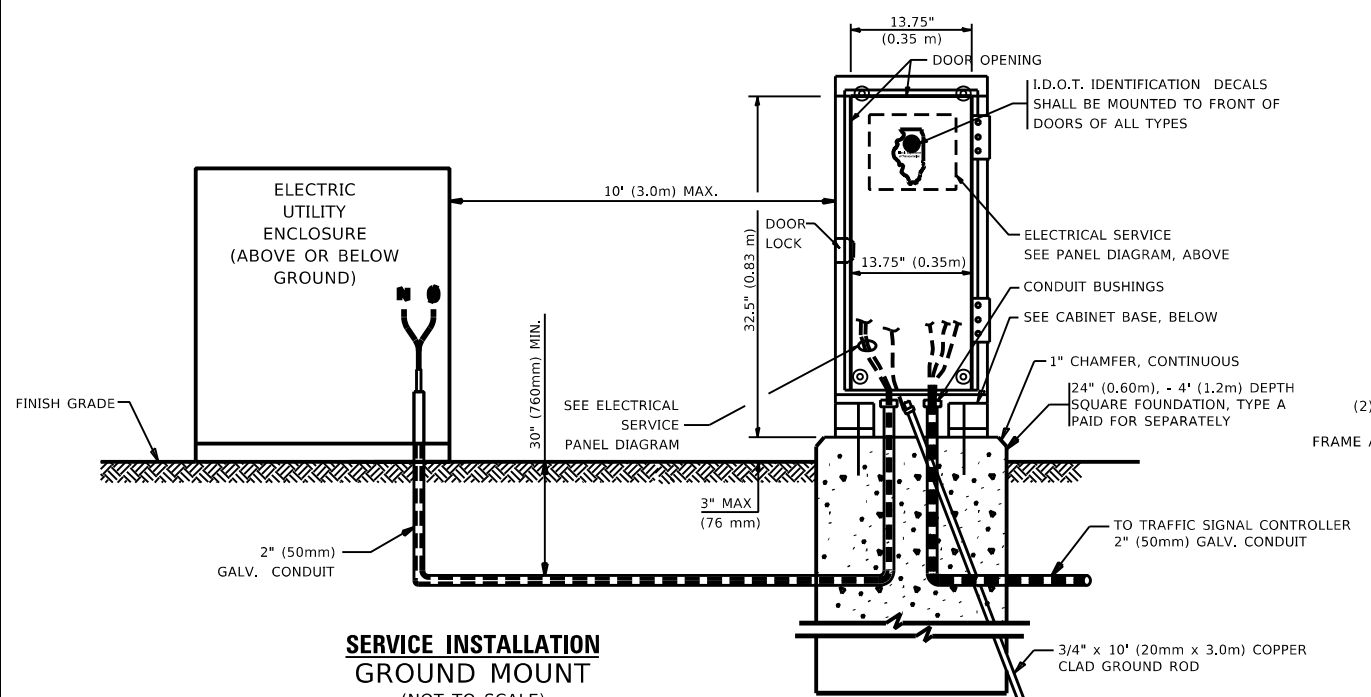
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

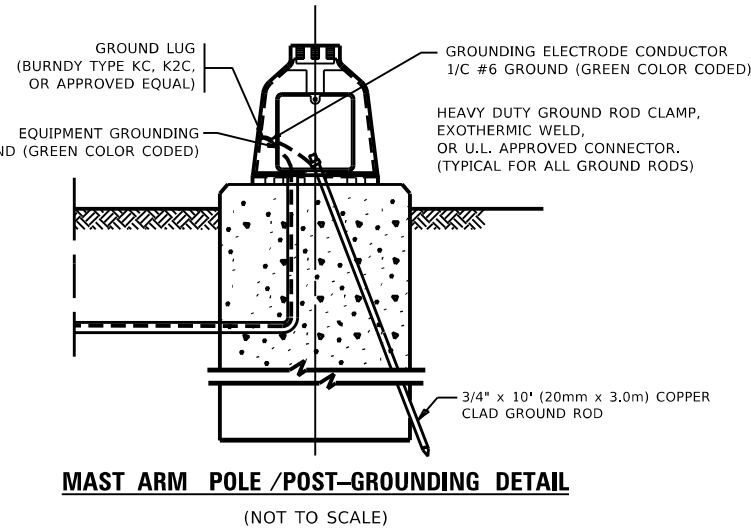
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**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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PLOT SCALE = 100,1044' / in.	DRAWN -	REVISED -
PLOT DATE = 6/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

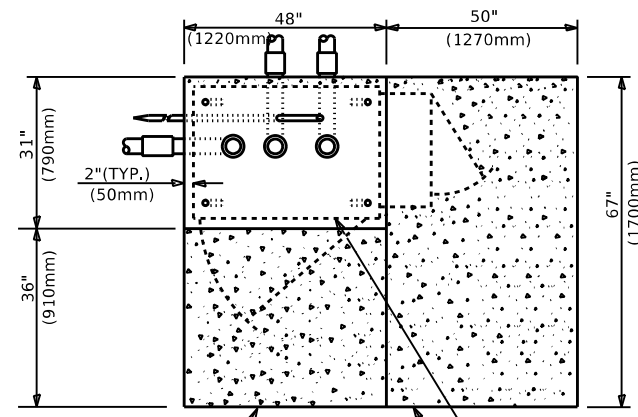
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

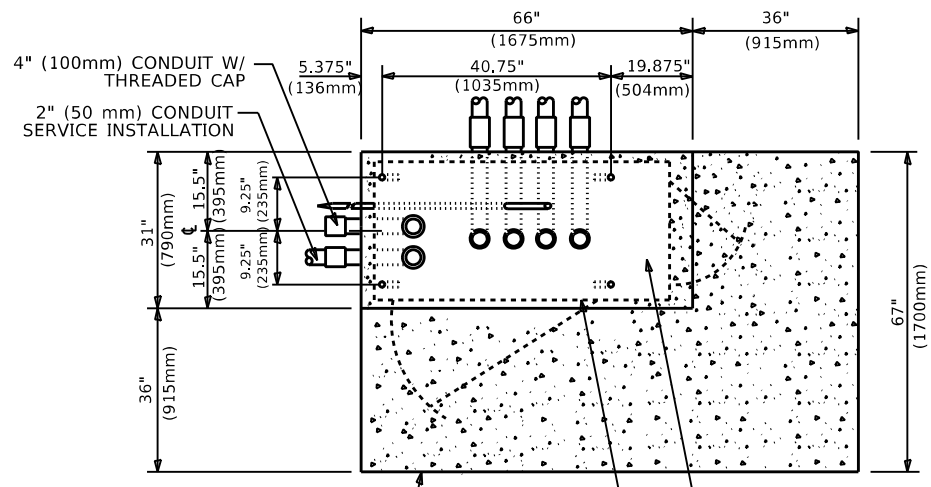
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F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 72
TS-05		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

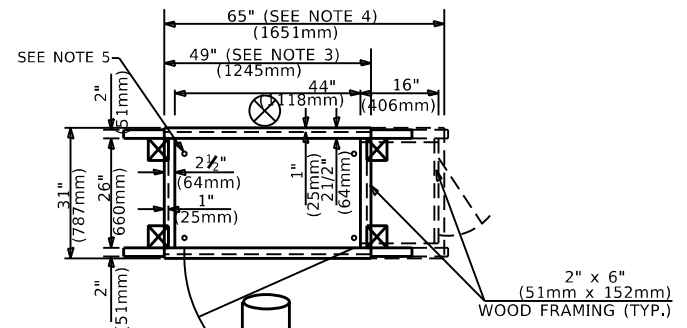




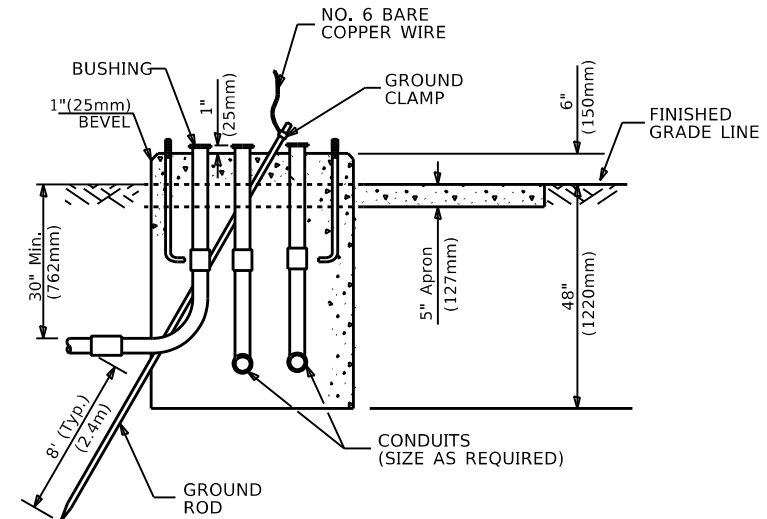
**TOP VIEW**



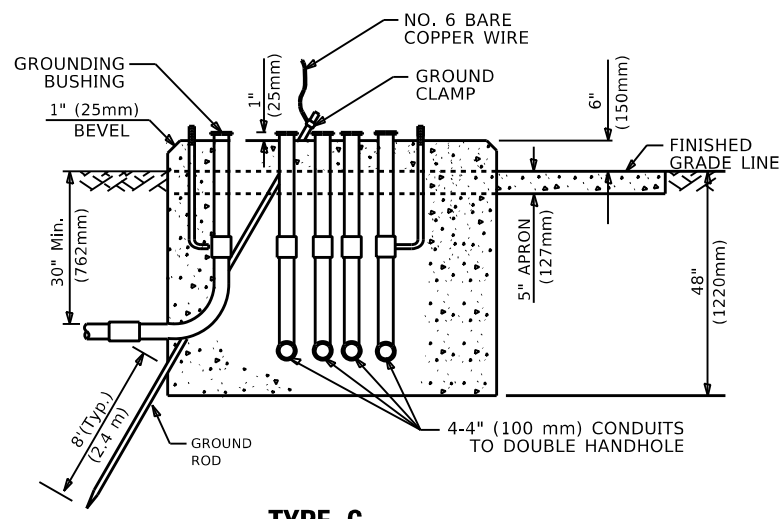
**TOP VIEW**



**TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM**



**TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET**



**TYPE C FOR GROUND MOUNTED SUPER P (TYPE IV) AND SUPER R (TYPE V) CONTROLLER CABINETS**

- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
  - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (UCS) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
  - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
  - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
  - For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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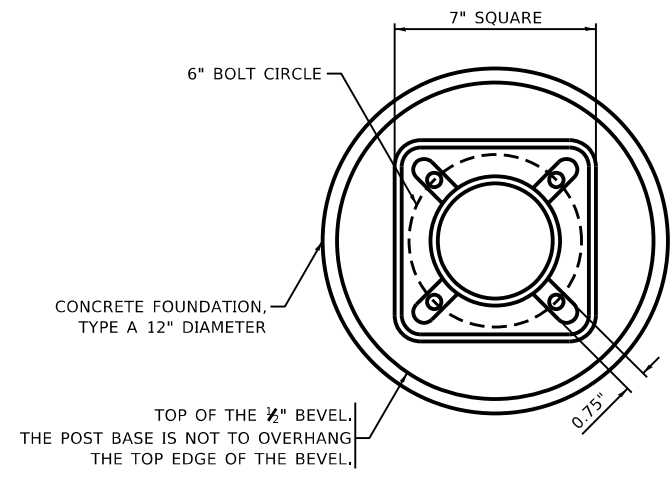
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

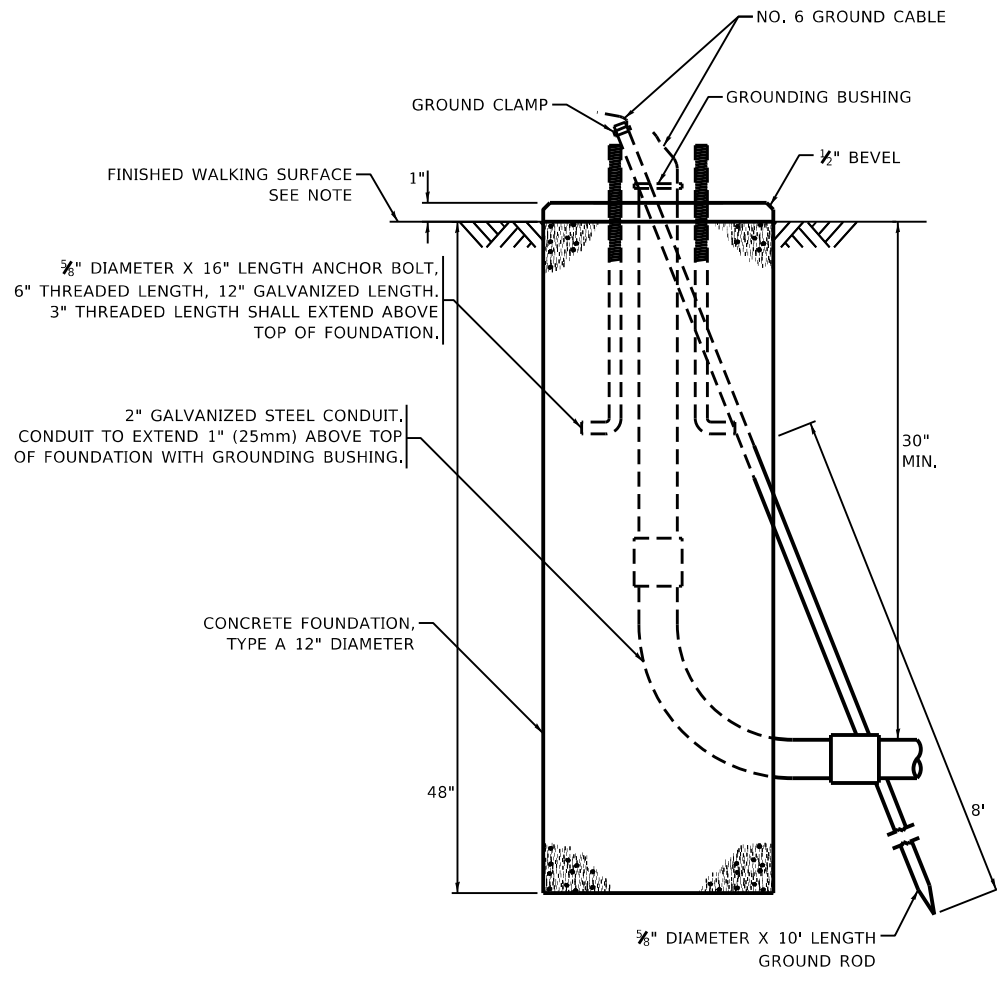
F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 73
TS-05			CONTRACT NO. 62R71	
ILLINOIS FED. AID PROJECT				



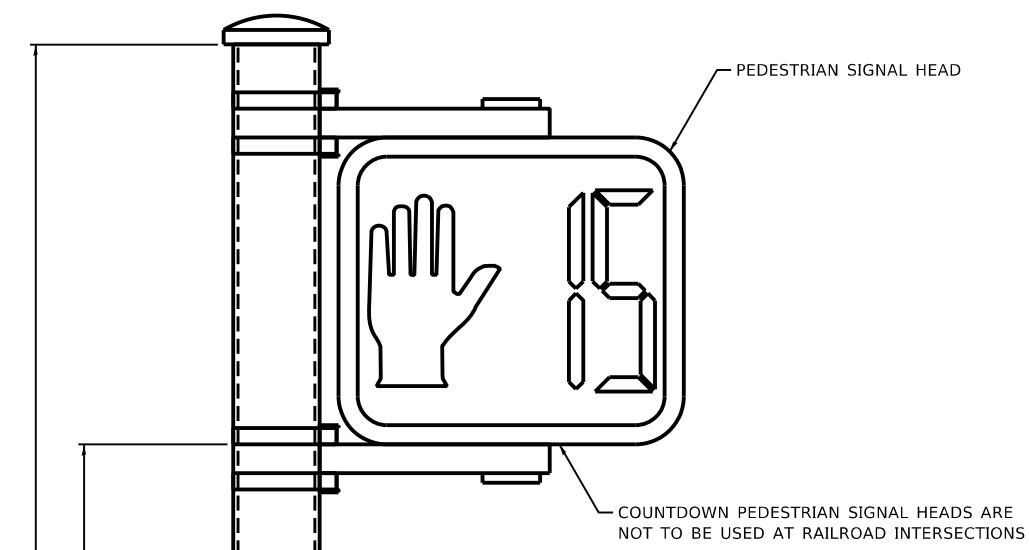


**BOLT PATTERN**

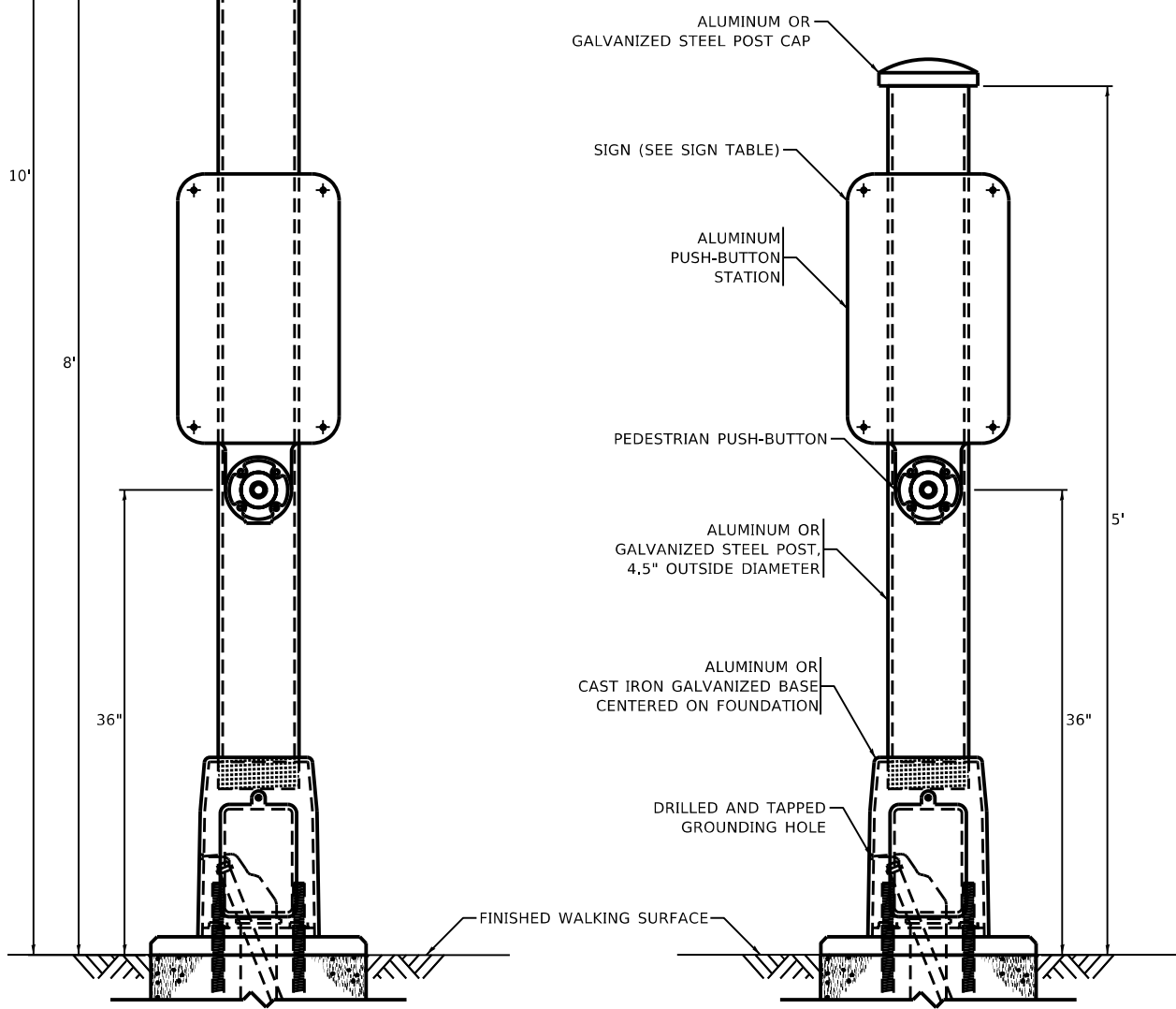
**NOTE:**  
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



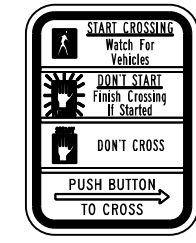
**CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER**



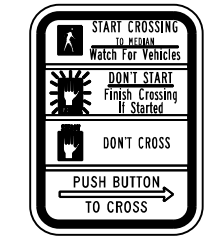
**PEDESTRIAN SIGNAL POST, 10 FT.**



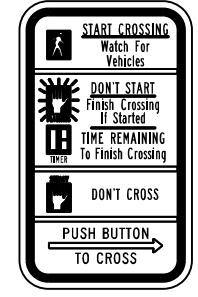
**PEDESTRIAN SIGNAL POST, 5 FT.**



**R10-3b**



**R10-3d**



**R10-3e**

**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

**NOTES:**  
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.  
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.  
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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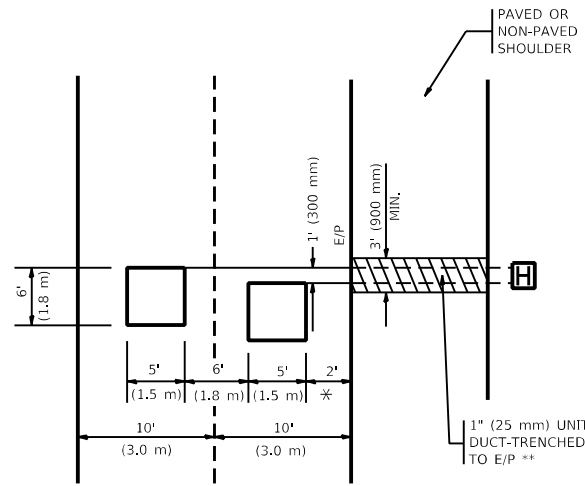
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**  
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F.A. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 75
<b>TS-05</b>		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

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



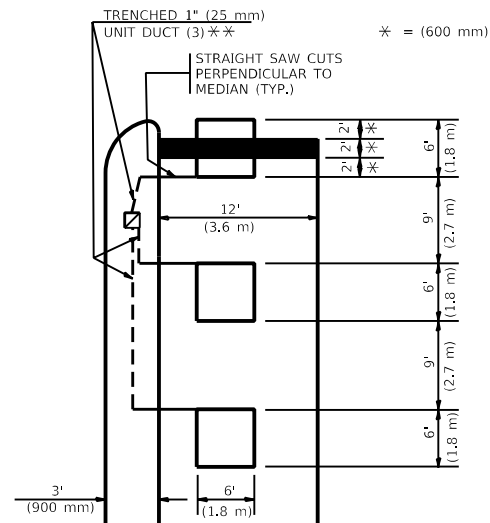
\* = (600 mm)

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

**LEFT TURN LANES WITH MEDIANS**

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

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



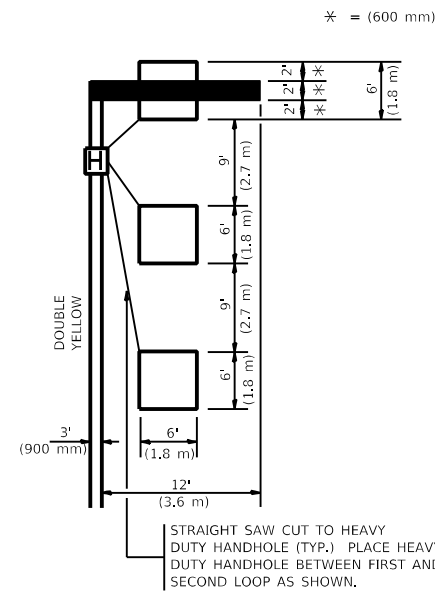
\* = (600 mm)

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

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

**LEFT TURN LANES WITHOUT MEDIANS**

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



\* = (600 mm)

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

**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.

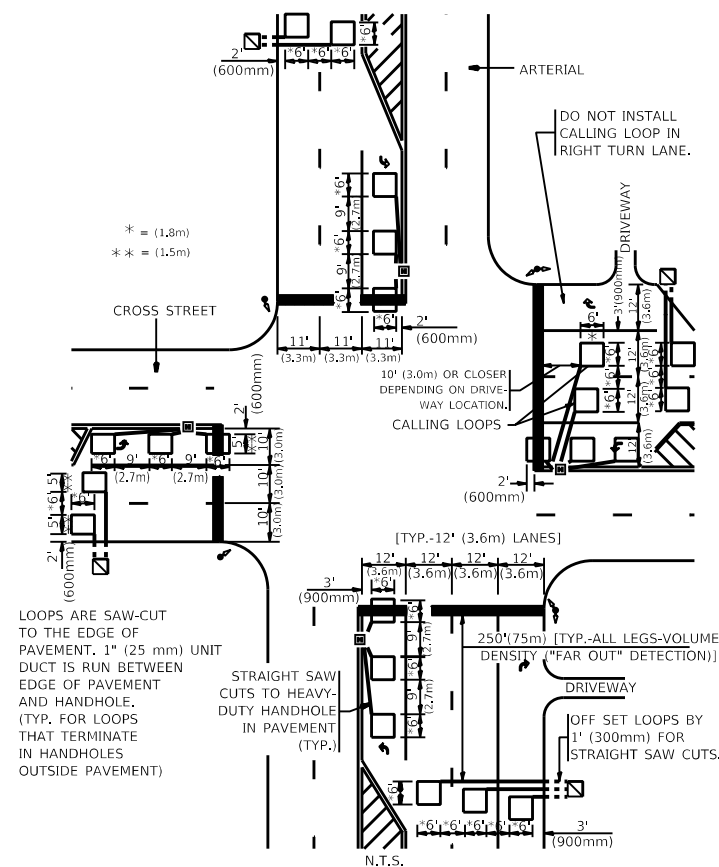
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

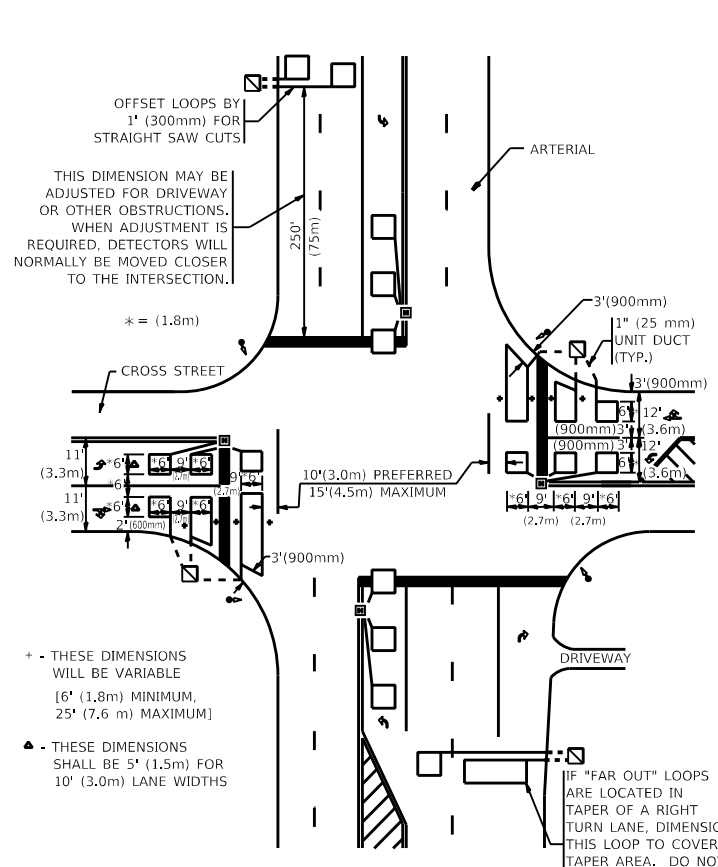
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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

- + THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
- ▲ THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

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USER NAME = Phillip.Steed	DESIGNED -	REVISD -
PLOT SCALE = 100.1044' / in.	DRAWN -	REVISD -
PLOT DATE = 6/13/2023	CHECKED - <b>R.K.F.</b>	REVISD -
	DATE -	REVISD -

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

<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION</b>			
<b>DETAILS FOR ROADWAY RESURFACING</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE. 1548/1549	SECTION 1548/1549 22 RESURFACE	COUNTY COOK	TOTAL SHEETS 76	SHEET NO. 76
<b>TS-07</b>		CONTRACT NO. 62R71		
ILLINOIS FED. AID PROJECT				