

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 62V89	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

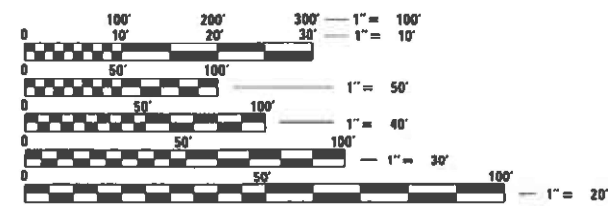
THE PROJECT IS LOCATED WITHIN:  
VILLAGES OF HOFFMAN ESTATES &  
SCHAUMBURG

**TRAFFIC DATA: ILL 72**

2023 ADT - 37,552 VPD  
POSTED SPEED LIMIT - 40-45 MPH

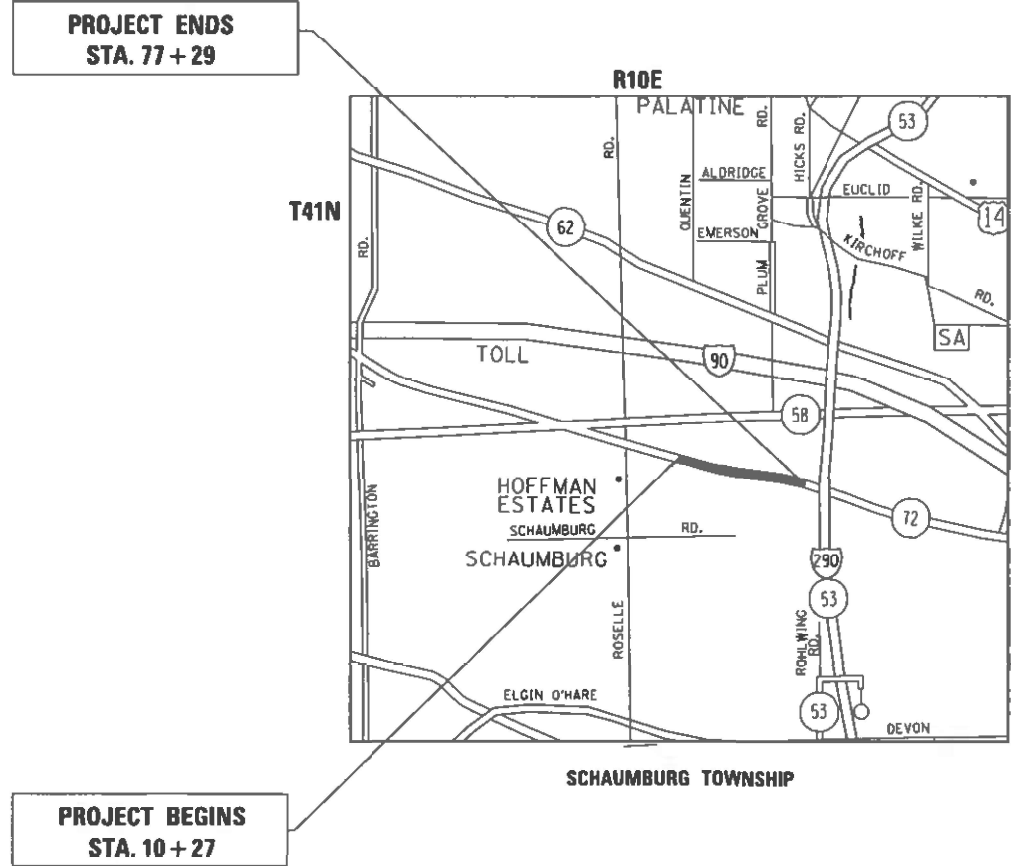
**PROPOSED  
HIGHWAY PLANS**

ROUTE F.A.P. 341: ILL 72 (HIGGINS ROAD)  
AUDUBON STREET TO LEXINGTON DRIVE  
SMART OVERLAY & ADA IMPROVEMENTS  
SECTION: FAP 0341 23 SMART2  
PROJECT: NHPP-HGI5(827)  
COOK COUNTY  
C-91-075-24



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



GROSS & NET LENGTH = 6,702 FT = 1.27 MI.

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432  
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62V89

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 24 2025  
Joseph 1R  
REGIONAL ENGINEER

March 21 2025  
Scott  
ENGINEER OF DESIGN AND ENVIRONMENT

March 21 2025  
Quarry 5  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7	EXISTING & PROPOSED TYPICAL SECTIONS
8-10	ROADWAY & PAVEMENT MARKINGS PLANS
11-20	PEDESTRIAN RAMP DETAILS
21-26	PROJECT DETAILS FOR CURB RAMPS
27-32	TRAFFIC SIGNAL IMPROVEMENT PLANS (APS AND DETECTOR LOOPS)
33	BD-8: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
34	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
35	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
36	BD-32: BUTT JOINT AND HMA TAPER DETAILS
37	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
38	TC-11: TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
39	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS
40	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
41	TC-16: SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
42	TC-22: ARTERIAL ROAD INFORMATION SIGN
43	TC-26: DRIVEWAY ENTRANCE SIGNING
44	TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

**LIST OF STATE STANDARDS - CONTINUED**

STANDARD NO.	DESCRIPTION
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 2' FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS < 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

**GENERAL NOTES - CONTINUED**

- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, BRANDY KENNEDY AT BRANDY.KENNEDY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 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.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY OR ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- 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.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER SO 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.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- 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.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- WHEN 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 45 MPH (85 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (85 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

**LIST OF STATE STANDARDS**

STANDARD NO.	DESCRIPTION
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 CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
604091-05	FRAME AND GRATES, TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES, WITH UTILITY COMPANIES AND THE VILLAGES OF HOFFMAN ESTATES & SCHAUMBURG.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 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. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT DURING THE CONSTRUCTION OF THIS PROJECT.

FILE NAME =	USER NAME = yaseen.gureshi	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILL 72 (HIGGINS RD.) AUDUBON ST. TO LEXINGTON DR. INDEX OF SHEETS, STATE STANDARDS &amp; GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 1\Projects\DI23822\CADD\Design\B123822-shr-plan.dgn	DRWN	CHECKED -	REVISED -			341	FAP 0341 23 SMART2	COOK	44	2
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			<b>CONTRACT NO. 62V89</b>				
PLOT DATE = 3/14/2025	DATE -	REVISED -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
20200100	EARTH EXCAVATION	CU YD	26	26				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	153	153				
25200110	SODDING, SALT TOLERANT	SO YD	153	153				
25200200	SUPPLEMENTAL WATERING	UNIT	8	8				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	34936	34936				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	40212	40212				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	116	116				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	446	446				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	375	375				
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	7533	7533				
42001300	PROTECTIVE COAT	SO YD	750	750				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	2616	2616				
42400800	DETECTABLE WARNINGS	SO FT	330	330				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	76866	76866				
44000600	SIDEWALK REMOVAL	SO FT	2805	2805				
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SO YD	2025	2025				
44003100	MEDIAN REMOVAL	SO FT	2515	2515				
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SO YD	20	20				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	2604	2604				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	120	120				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	345	345				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3				
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	13	13				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	16	16				
60404950	FRAMES AND GRATES, TYPE 24	EACH	2	2				
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	3	3				* SPECIALTY ITEM # NON PARTICIPATING ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	215	215				
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	250	250				
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SO FT	2513	2513				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	26	26				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2				
* 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	10	10				
67100100	MOBILIZATION	L SUM	1	1				
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1				
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7802	7802				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	2605	2605				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	2002	2002				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	31948	31948				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	6853	6853				
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	350	350				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1950	1950				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	845	845				
								* SPECIALTY ITEM
								# NON PARTICIPATING ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2002	2002				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	31948	31948				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6853	6853				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	350	350				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1950	1950				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	845	845				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	700	700				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	654	654				
* 81028200	UNDERGROUD CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	365	365				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3				
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	EACH	5815	5815				
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	2090	2090				
* 87900200	DRILL EXISTING HANDHOLE	EACH	22	22				

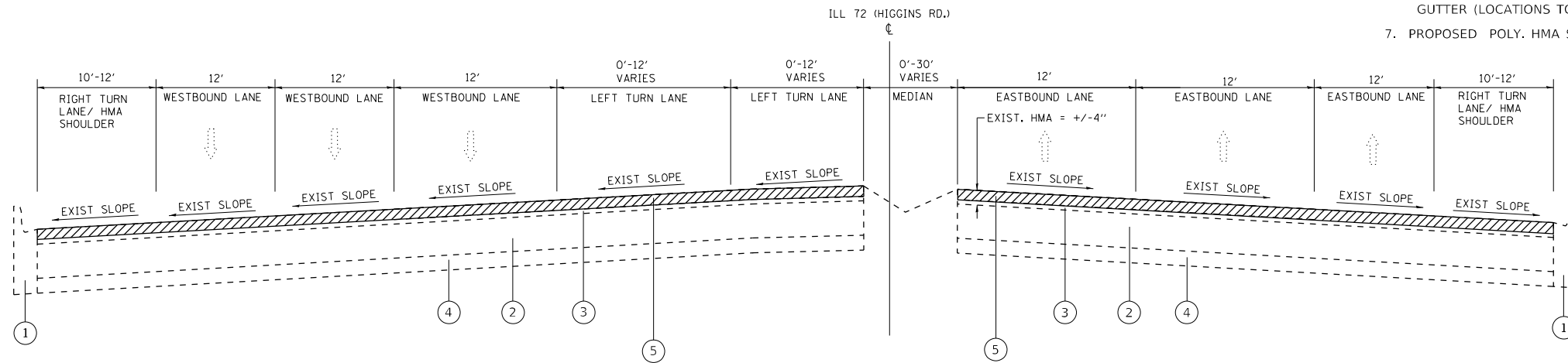
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE			
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8				
* 88600100	DETECTOR LOOP, TYPE I	FOOT	2615	2615				
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1	1				
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	792	792				
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	2				
* 89502376	REBUILD EXISTING HANDHOLE	EACH	8	8				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	5	5				
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	16	16				
X2010516	SELECTIVE CLEARING	UNIT	7	7				
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	85	85				
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	945	945				
# X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	860	860				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8	8				* SPECIALTY ITEM # NON PARTICIPATING ITEM

FILE NAME =	USER NAME = yssenuresh	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILL 72 (HIGGINS RD.) AUDUBON ST. TO LEXINGTON DR. SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
dw:\11dot-pw\benley.com\PWIDOT\Documents\1007	Office\11dot\Projects\123822\CADD\1007\Design\123822-st	DRAWN -	REVISED -			341	FAP 0341 23 SMART2	COOK	44	5	
	PLOT SCALE = 100,0000' / 1in	CHECKED -	REVISED -			CONTRACT NO. 62V89					
	PLOT DATE = 2/3/2025	DATE -	REVISED -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					

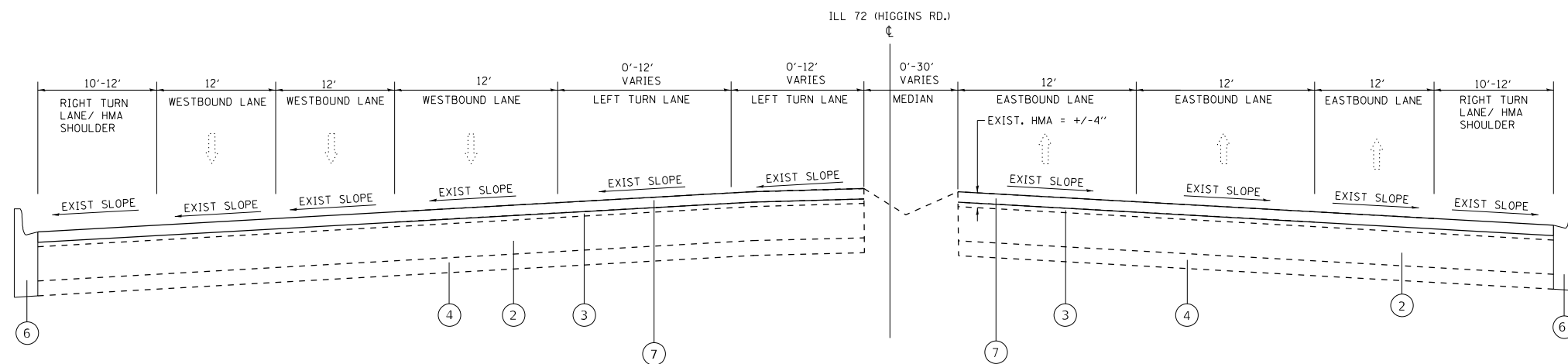


**LEGEND**

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 10"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING SUB-BASE | 4"
5. PROPOSED HMA SURFACE REMOVAL, 1 3/4"
6. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (LOCATIONS TO BE DETERMINED BY THE RE IN THE FIELD)
7. PROPOSED POLY. HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"



EXISTING TYPICAL SECTION  
ILL 72 (HIGGINS RD.)  
STA. 10+27 TO STA. 77+29

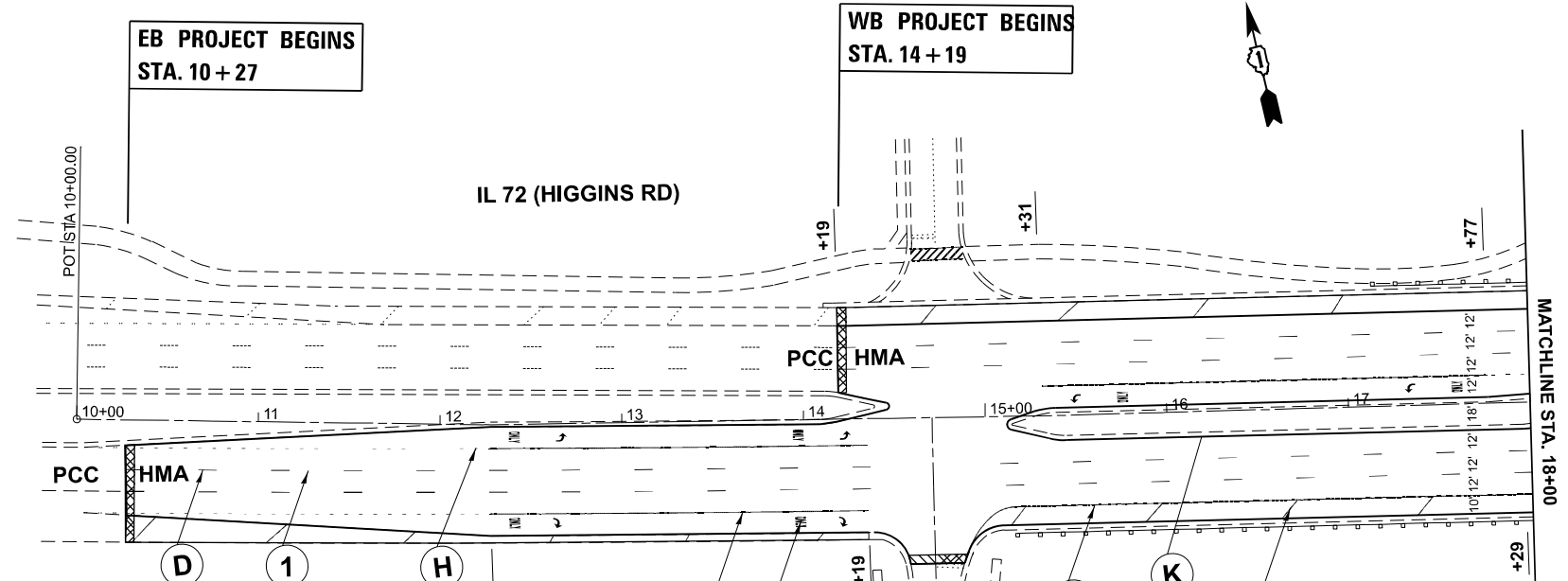


PROPOSED TYPICAL SECTION  
ILL 72 (HIGGINS RD.)  
STA. 10+27 TO STA. 77+29

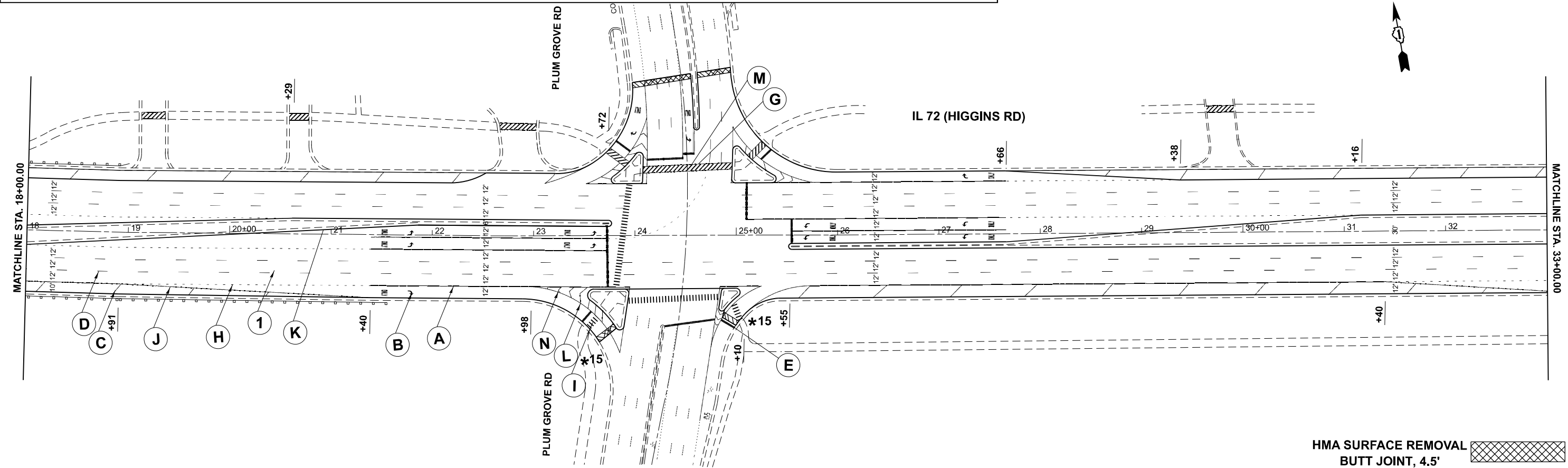
- NOTES:**
1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
  2. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
<b>PAVEMENT RESURFACING</b>		
POLY. HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80; 1 3/4"	3.5% @ 80 GYR.	QCP
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.  
NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.



- |   |   |  |
|---|---|--|
| (L) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4" | (F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)       | PROPOSED CURB RAMP IMPROVEMENT<br>USE PROJECT DETAIL PD-01A   1<br>USE PROJECT DETAIL PD-01B   2<br>USE PROJECT DETAIL PD-01C   3<br>USE PROJECT DETAIL PD-02A   4<br>USE PROJECT DETAIL PD-02B   5<br>USE PROJECT DETAIL PD-02C   6<br>USE PROJECT DETAIL PD-03A   7<br>USE PROJECT DETAIL PD-03B   8<br>USE PROJECT DETAIL PD-04A   9<br>USE PROJECT DETAIL PD-04B   10<br>USE PROJECT DETAIL PD-05A   11<br>USE PROJECT DETAIL PD-05B   12<br>USE PROJECT DETAIL PD-06A   13<br>USE PROJECT DETAIL PD-06B   14<br>USE PEDESTRIAN RAMP DETAILS   15<br>* = ADA RAMPS |
| (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)  | (G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)     |  |
| (B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)  | (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6" SKIP, WHITE (TYP.)         |  |
| (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, WHITE (TYP.)   | (I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)        |  |
| (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)   | (J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)                     |  |
| (E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)  | (K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)                     |  |
|   | (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)                          |  |
|   | (M) PROP. THERMOPLASTIC PAVEMENT EQUESTRIAN CROSSWALK MARKING-LINE 12", WHITE (TYP.)    |  |
|   | (N) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" DIAGONALS @ 10' SPACING, WHITE (TYP.) |  |
- NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DIDETAIL TC-13 AND TC-23B.



MODEL: IL72\_E-Rdwy Plan 1 (Sheet)  
 FILE NAME: c:\pwworking\qureshi\1033945\106724-sh-plan.dgn

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/4/2025	DATE -	REVISED -

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

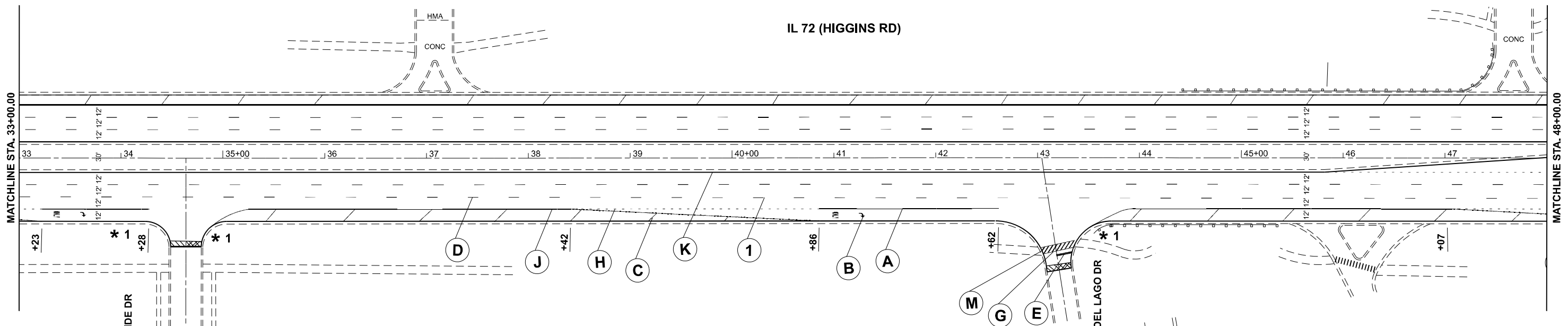
**IL 72 (HIGGINS RD) FROM AUDUBON ST. TO LEXINGTON DR.**  
**ROADWAY AND PAVEMENT MARKING PLAN**  
 SCALE: 1"=50'      SHEET 1 OF 3 SHEETS      STA. 3+00.00 TO STA. 33+00.00

F.A.P. RTE. 341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 8
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

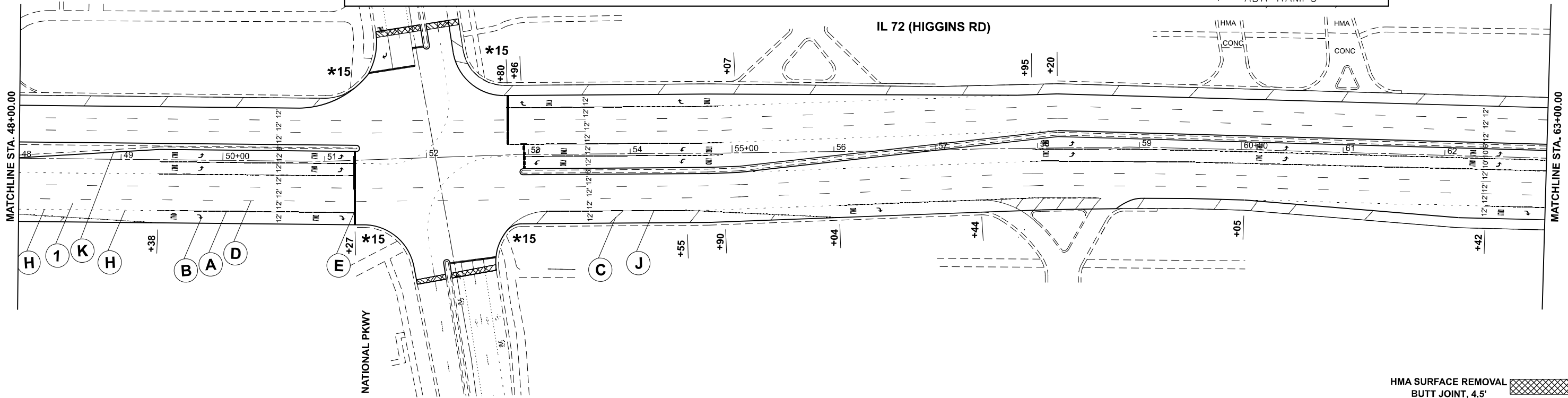




IL 72 (HIGGINS RD)



(I) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"	(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)	PROPOSED CURB RAMP IMPROVEMENT USE PROJECT DETAIL PD-01A   *1 USE PROJECT DETAIL PD-01B   *2 USE PROJECT DETAIL PD-01C   *3 USE PROJECT DETAIL PD-02A   *4 USE PROJECT DETAIL PD-02B   *5 USE PROJECT DETAIL PD-02C   *6 USE PROJECT DETAIL PD-03A   *7 USE PROJECT DETAIL PD-03B   *8 USE PROJECT DETAIL PD-04A   *9 USE PROJECT DETAIL PD-04B   *10 USE PROJECT DETAIL PD-05A   *11 USE PROJECT DETAIL PD-05B   *12 USE PROJECT DETAIL PD-06A   *13 USE PROJECT DETAIL PD-06B   *14 USE PEDESTRIAN RAMP DETAILS   *15 (SEE SHEETS 32-44) * = ADA RAMP
(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)	(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)	
(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)	(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6" SKIP, WHITE (TYP.)	
(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, WHITE (TYP.)	(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)	
(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)	(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)	
(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)	(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)	
	(L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)	
NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DIDETAIL TC-13 AND TC-23B.	(M) PROP. THERMOPLASTIC PAVEMENT EQUESTRIAN CROSSWALK MARKING-LINE 12", WHITE (TYP.)	
	(N) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" DIAGONALS @ 10' SPACING, WHITE (TYP.)	



HMA SURFACE REMOVAL BUTT JOINT, 4.5'

MODEL: IL72\_E-Roadway Plan 3 (Sheet)  
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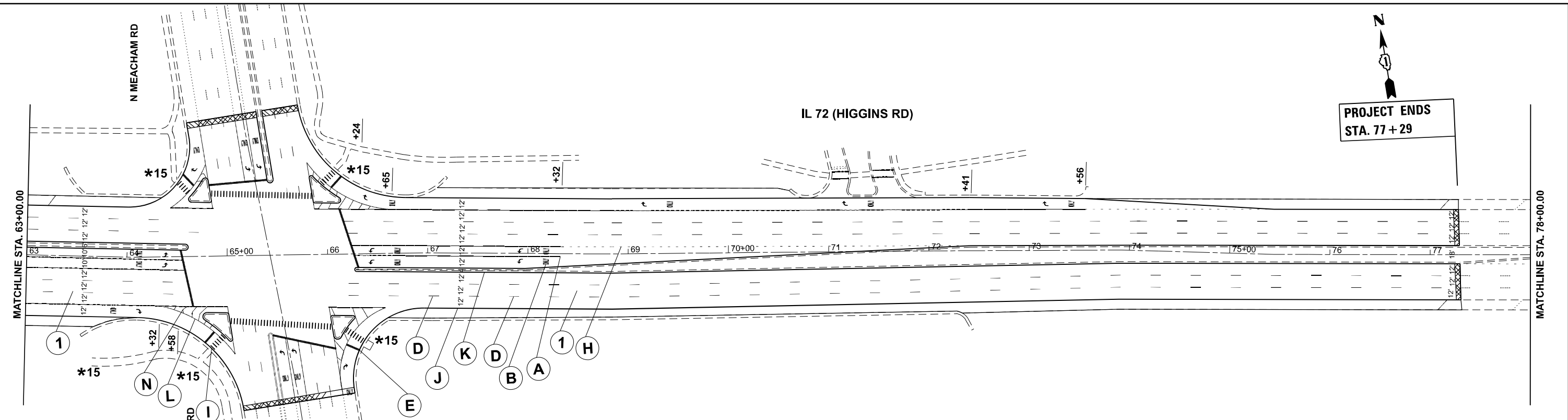
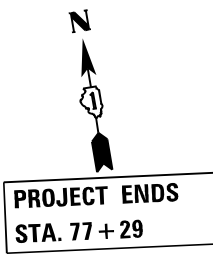
USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/4/2025	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 72 (HIGGINS RD) FROM AUDUBON ST. TO LEXINGTON DR.  
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: 1"=50'  
SHEET 2 OF 3 SHEETS STA. 33+00.00 TO STA. 63+00.00

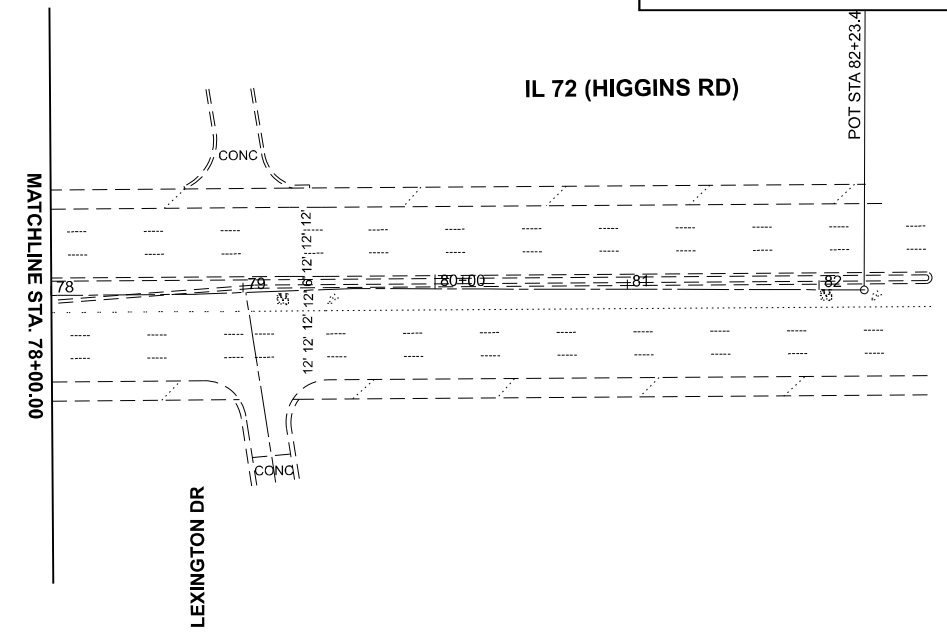
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 Smart2	COOK	44	9
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				



(1)	PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"	(F)	PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)	PROPOSED CURB RAMP IMPROVEMENT	
(A)	PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6', WHITE (TYP.)	(G)	PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6', WHITE (TYP.)	(+1)	USE PROJECT DETAIL PD-01A
(B)	PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)	(H)	PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6', 2' DASH-6' SKIP, WHITE (TYP.)	(+2)	USE PROJECT DETAIL PD-01B
(C)	PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, WHITE (TYP.)	(I)	PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)	(+3)	USE PROJECT DETAIL PD-01C
(D)	PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4', 10' DASH-30' SKIP, WHITE (TYP.)	(J)	PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4', WHITE (TYP.)	(+4)	USE PROJECT DETAIL PD-02A
(E)	PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)	(K)	PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4', YELLOW (TYP.)	(+5)	USE PROJECT DETAIL PD-02B
		(L)	PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)	(+6)	USE PROJECT DETAIL PD-02C
		(M)	PROP. THERMOPLASTIC PAVEMENT EQUESTRIAN CROSSWALK MARKING-LINE 12", WHITE (TYP.)	(+7)	USE PROJECT DETAIL PD-03A
		(N)	PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" DIAGONALS @ 10' SPACING, WHITE (TYP.)	(+8)	USE PROJECT DETAIL PD-03B
				(+9)	USE PROJECT DETAIL PD-04A
				(+10)	USE PROJECT DETAIL PD-04B
				(+11)	USE PROJECT DETAIL PD-05A
				(+12)	USE PROJECT DETAIL PD-05B
				(+13)	USE PROJECT DETAIL PD-06A
				(+14)	USE PROJECT DETAIL PD-06B
				(+15)	USE PEDESTRIAN RAMP DETAILS
					(SEE SHEETS 32-44)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DIDETAIL TC-13 AND TC-23B.

\* = ADA RAMP



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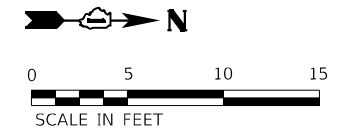
HMA SURFACE REMOVAL BUTT JOINT, 4.5'

USER NAME = yaseen.queshti	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/4/2025	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 72 (HIGGINS RD) FROM AUDUBON ST. TO LEXINGTON DR. ROADWAY AND PAVEMENT MARKING PLAN		
SCALE: 1"=50'	SHEET 3 OF 3 SHEETS	STA. 63+00.00 TO STA. 93+00.00

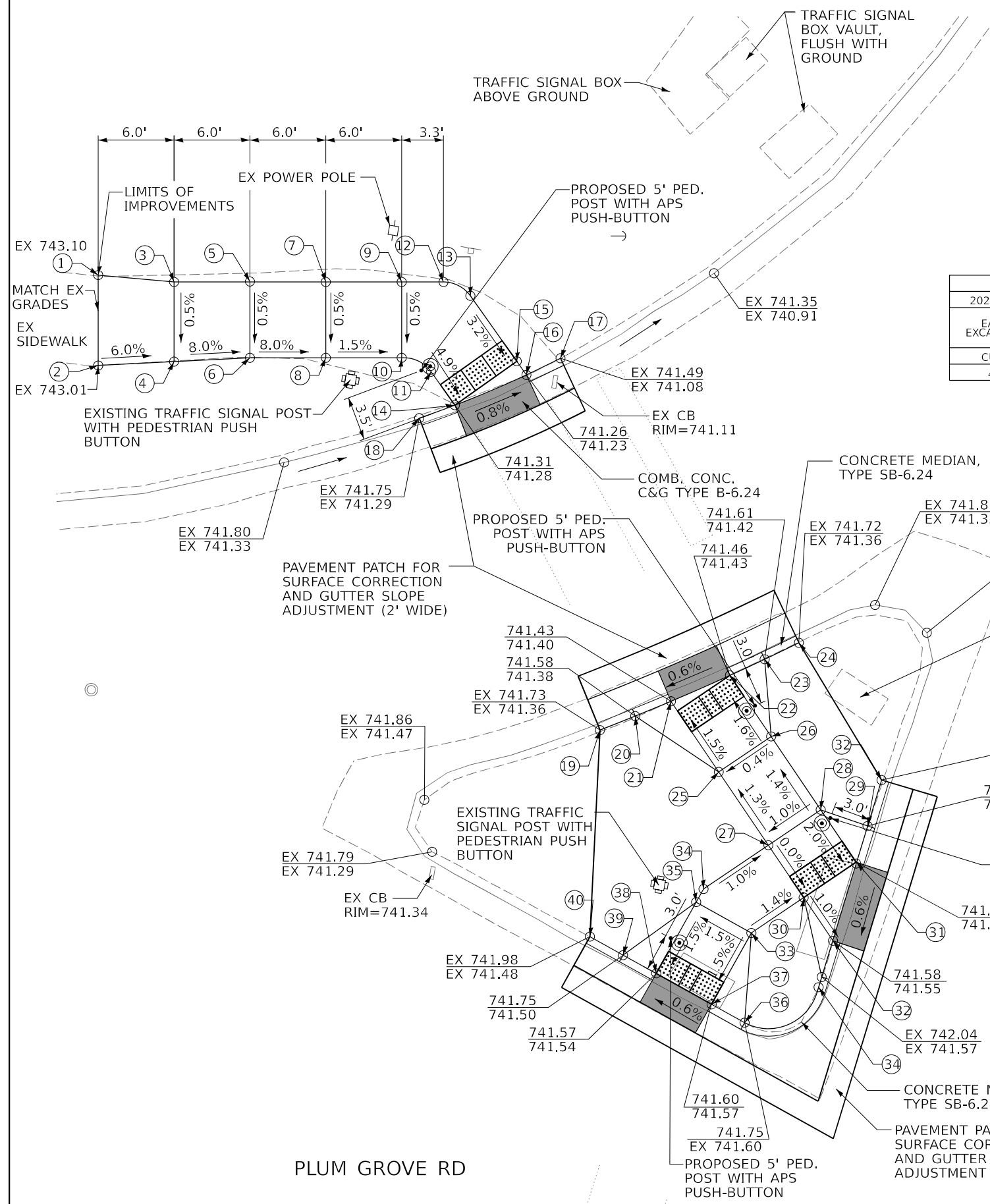
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 Smart2	COOK	44	10
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION
- XX.XX B/CURB ELEVATION
- DEPRESSED CURB

ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER, TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
4.23	20	20	12	439	423	42	433	12	433



POINT #	NORTHING	EASTING	ELEVATION
1	1957519.54	1058316.06	EX 743.10
2	1957520.73	1058323.11	EX 743.01
3	1957525.54	1058315.59	742.68
4	1957526.60	1058321.80	742.65
5	1957531.45	1058314.55	742.20
6	1957532.46	1058320.50	742.17
7	1957537.37	1058313.58	741.72
8	1957538.38	1058319.50	741.69
9	1957543.29	1058312.58	741.80
10	1957544.29	1058318.49	741.60
11	1957546.77	1058319.18	741.48
12	1957546.55	1058312.02	741.56
13	1957548.83	1058312.75	741.52
14	1957549.07	1058321.48	741.31
15	1957553.31	1058317.24	741.27
16	1957554.24	1058318.17	741.23
17	1957556.68	1058316.42	EX 741.08
18	1957546.46	1058322.96	EX 741.28
19	1957564.68	1058344.90	EX 741.36
20	1957567.24	1058343.34	741.38
21	1957569.84	1058341.71	741.40
22	1957574.08	1058338.92	741.43
23	1957576.59	1058337.19	741.42
24	1957579.03	1058335.46	EX 741.36
25	1957574.49	1058346.58	741.53
26	1957578.11	1058343.13	741.55
27	1957579.33	1058351.64	741.62
28	1957582.94	1058348.19	741.65
29	1957586.81	1058348.83	741.48
30	1957582.78	1058355.26	741.62
31	1957586.43	1058351.81	741.52
32	1957585.64	1058358.25	741.55
33	1957579.17	1058358.71	741.69
34	1957574.86	1058355.92	741.68
35	1957574.46	1058357.03	741.66
36	1957579.83	1058365.78	EX 741.60
37	1957577.00	1058364.80	741.57
38	1957572.29	1058363.13	741.54
39	1957569.45	1058362.14	741.50
40	1957566.63	1058361.13	EX 741.48

IL 72

PLUM GROVE RD

MODEL: 640916MAMES  
FILE: 640916MAMES

**DELTA ENGINEERING GROUP, LLC**  
CHICAGO, ILLINOIS  
 111 W JACKSON BLVD, SUITE 910  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

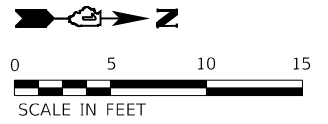
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	DATE - 03/14/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET OF SHEETS		STA. TO STA.	
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ADA MPROVEMENT PLAN (SW CORNER)  
IL 72 & PLUM GROVE RD, SCHAUMBURG, IL

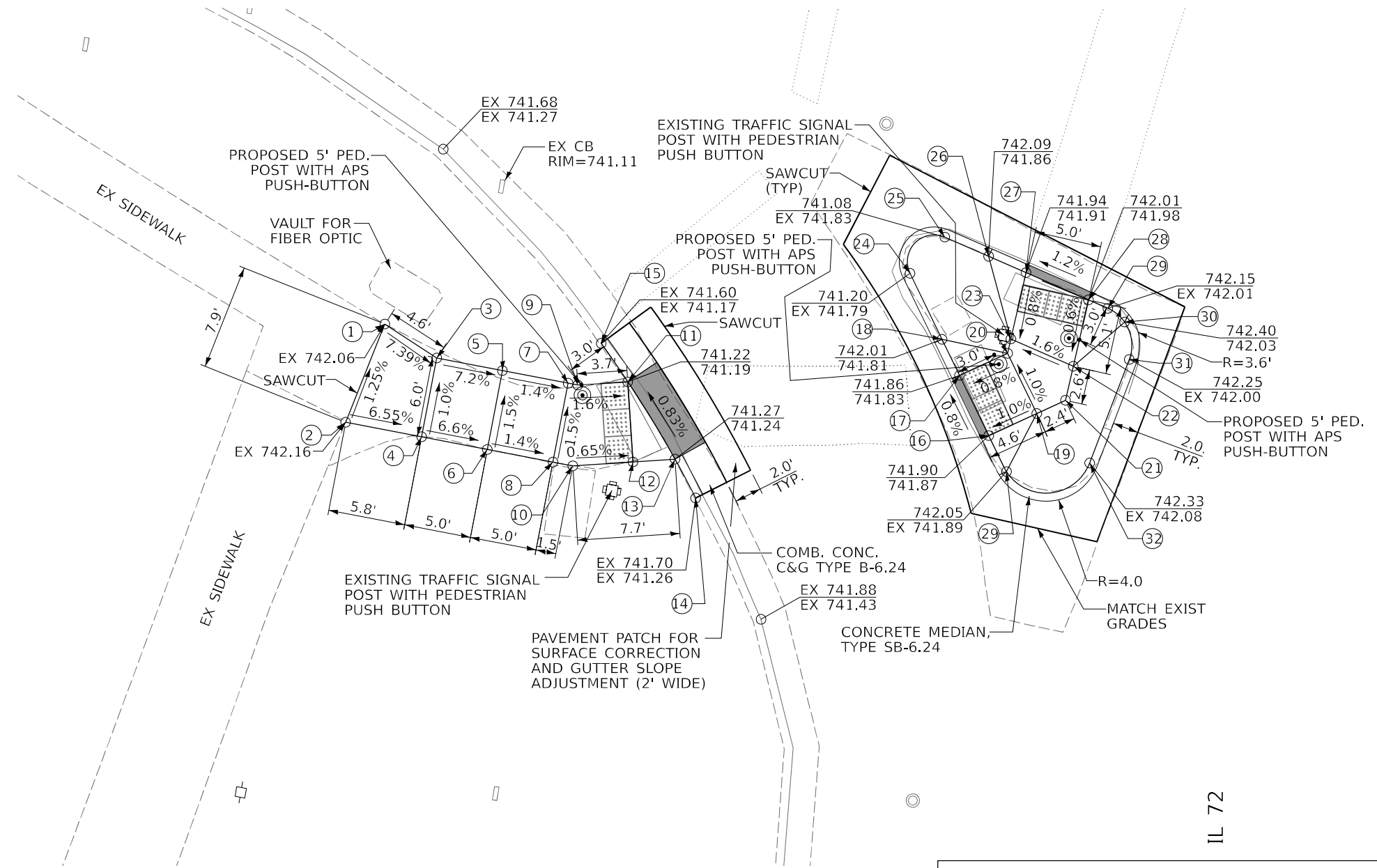
F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 11
		CONTRACT NO. 62V89		
<small>ILLINOIS FED. AID PROJECT</small>				



PLUM GROVE RD

LEGEND

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION
- XX.XX B/CURB ELEVATION
- DEPRESSED CURB



POINT #	NORTHING	EASTING	ELEVATION
1	1957513.41	1058469.77	EX 742.06
2	1957511.76	1058477.50	EX 742.16
3	1957517.66	1058471.62	741.72
4	1957517.54	1058477.62	741.78
5	1957522.66	1058471.73	741.36
6	1957522.54	1058477.73	741.45
7	1957527.66	1058471.84	741.29
8	1957527.53	1058477.84	741.38
9	1957528.40	1058471.85	741.28
10	1957529.04	1058477.87	741.36
11	1957532.04	1058470.99	741.22
12	1855493.64	1057471.65	741.31
13	1957533.42	1058476.83	741.27
14	1957536.49	1058476.10	EX 741.26
15	1957538.50	1058478.70	EX 741.17
16	1957529.59	1058468.49	741.87
17	1957559.31	1058470.44	741.86
18	1957556.41	1058466.37	741.81
19	1957554.67	1058463.92	741.94
20	1957551.46	1058459.46	741.89
21	1957553.59	1058456.36	741.96
22	1957557.06	1058457.22	741.97
23	1957560.02	1058457.96	741.90
24	1957564.96	1058459.19	EX 741.79
25	1957566.50	1058459.57	EX 741.83
26	1957567.90	1058460.36	741.86
27	1957568.72	1058463.06	741.94
28	1957567.10	1058471.20	742.01
29	1957561.08	1058472.87	EX 742.01
30	1957562.58	1058468.20	742.03
31	1957559.68	1058464.13	EX 742.00
32	1957564.53	1058466.87	EX 742.08

ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER, TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
2.11	12	12	12	211	211	32	327	14	328

DELTA ENGINEERING GROUP, I.L.C.  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

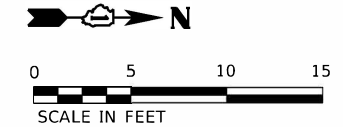
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	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA IMPROVEMENT PLAN (SE CORNER)  
IL 72 & PLUM GROVE RD, SCHAUMBURG, IL

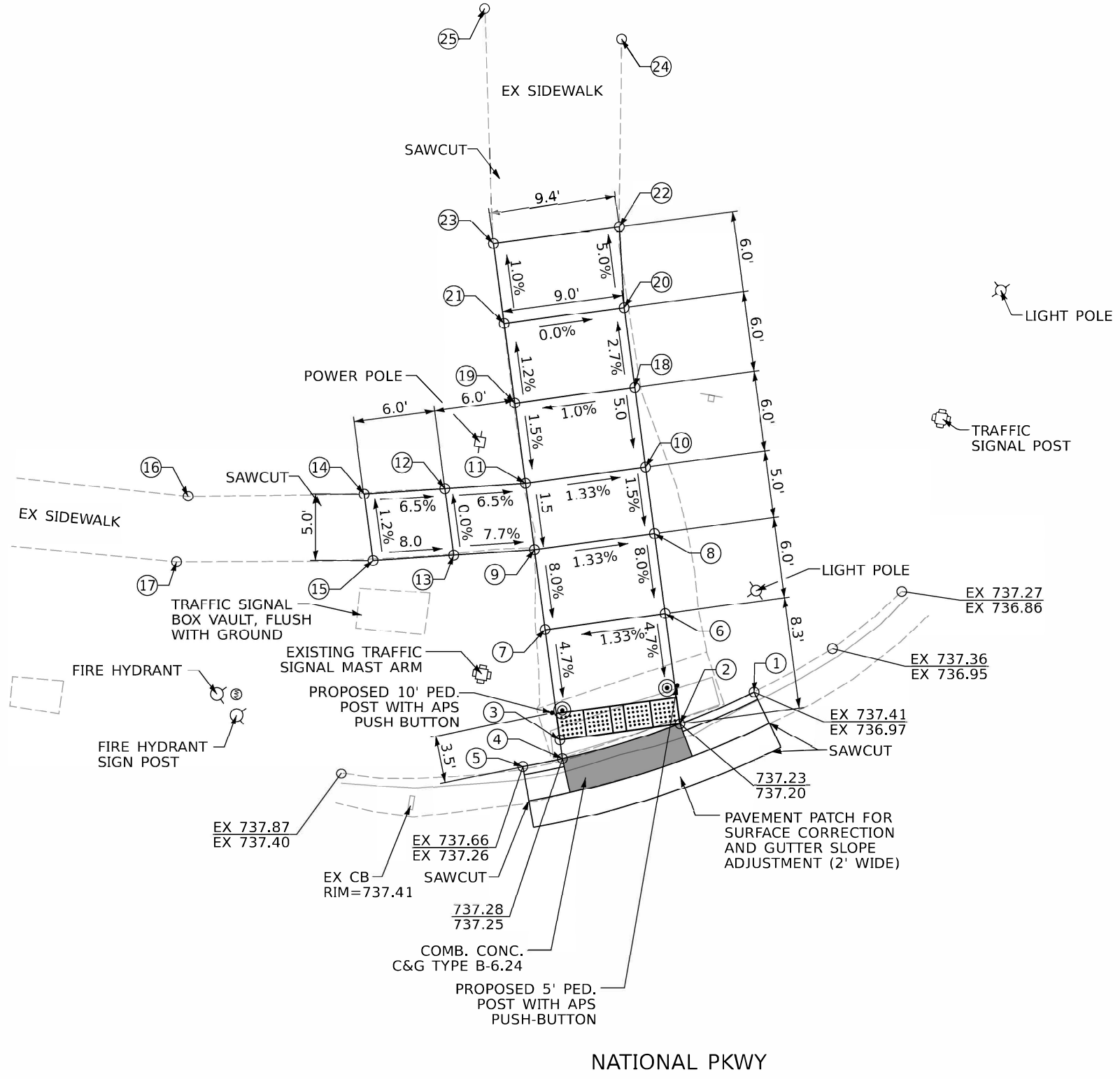
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	12
CONTRACT NO. 62V89				
ILLINOIS / FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



**LEGEND**

	DETECTABLE WARNING
XX.XX	PROPOSED ELEVATION
EX XX.XX	EXISTING ELEVATION
XX.XX XX.XX	T/CURB ELEVATION B/CURB ELEVATION
	DEPRESSED CURB



POINT #	NORTHING	EASTING	ELEVATION
1	1957100.12	1061102.61	EX 736.97
2	1957095.08	1061105.87	737.20
3	1957086.48	1061108.54	737.35
4	1957086.90	1061109.89	737.25
5	1957084.10	1061110.96	EX 737.26
6	1957092.62	1061097.96	737.62
7	1957084.03	1061100.63	737.74
8	1957090.84	1061092.23	738.10
9	1957082.25	1061094.90	738.22
10	1957089.36	1061087.44	738.17
11	1957080.76	1061090.11	738.29
12	1957074.92	1061091.51	738.71
13	1957076.40	1061096.30	738.71
14	1957069.07	1061092.91	EX 739.10
15	1957070.55	1061097.70	EX 739.16
16	1957056.19	1061095.27	EX 739.47
17	1957056.17	1061100.23	EX 739.35
18	1957087.58	1061081.71	738.47
19	1957078.98	1061084.38	738.38
20	1957085.80	1061075.98	738.31
21	1957077.21	1061078.65	738.31
22	1957084.44	1061070.12	EX 738.01
23	1957075.43	1061072.92	EX 738.25
24	1957082.30	1061056.30	EX 738.14
25	1957071.86	1061055.77	EX 738.25

IL 72

ROADWAY IMPROVEMENT SCHEDULE							
20200100	21101615	25200110	4000500	4000600	42400200	42400800	60605000
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE B-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	FOOT
4.04	28	28	19	472	404	18	18

**NOTE:**  
 CONTRACTOR SHALL POURED CONCRETE FOR THE PROPOSED RAMP IMMEDIATELY ADJACENT TO THE CONCRETE FOUNDATION OF THE EXISTING POLE IN ORDER FOR THIS APS TO HAVE A COMPLAINT REACH DISTANCE

DELTA ENGINEERING GROUP, LLC  
 CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS  
 111 W JACKSON BLVD, SUITE 910  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

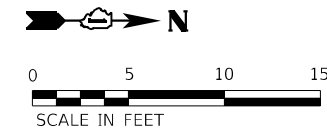
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PLOT DATE = \$DATES	CHECKED - MA/JS	REVISED -
	DATE - 03/14/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (SW CORNER)  
 IL 72 & NATIONAL PKWY, SCHAUMBURG, IL

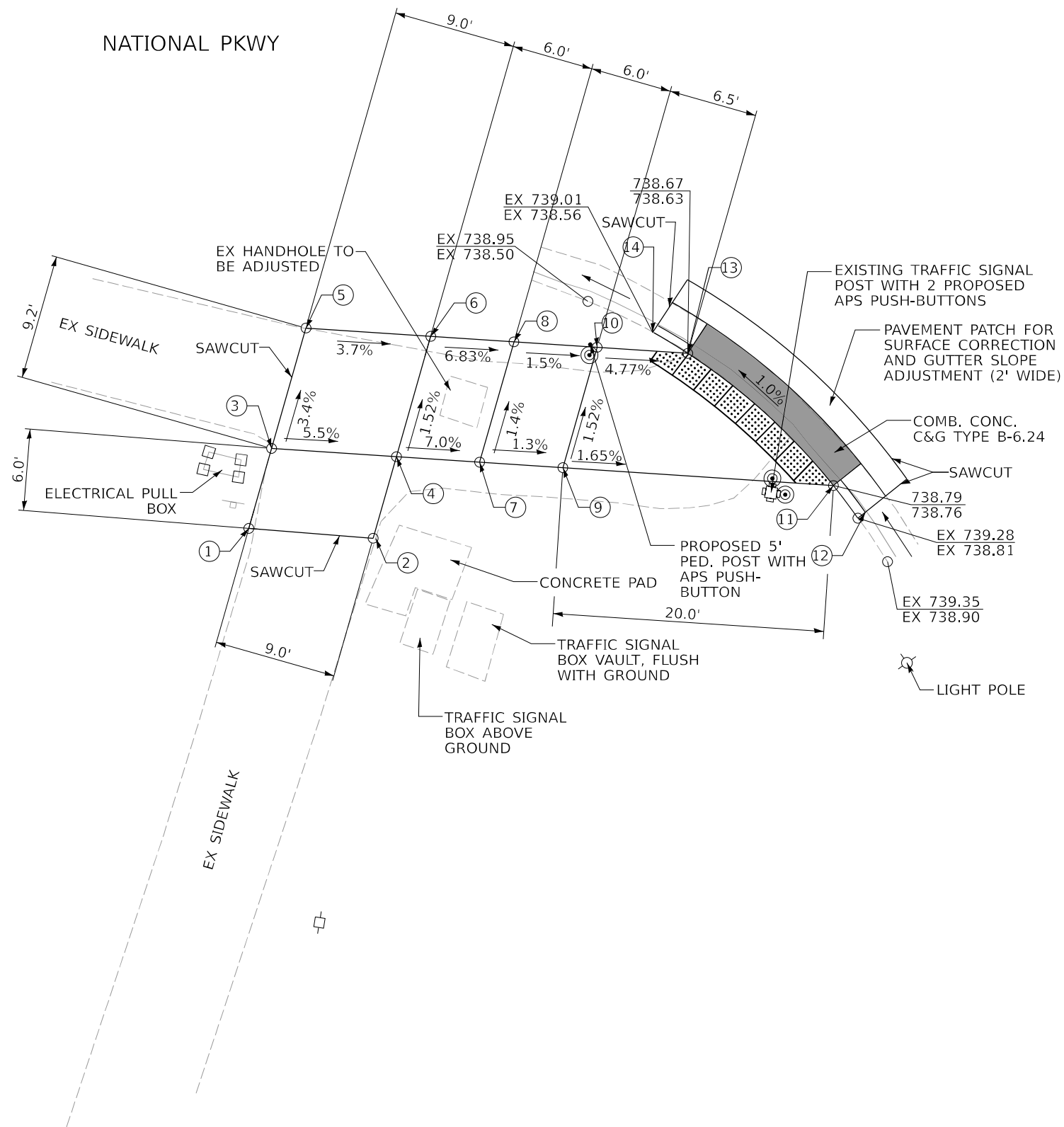
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	13
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

NATIONAL PKWY



**LEGEND**

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION
- XX.XX B/CURB ELEVATION
- DEPRESSED CURB



IL 72

POINT #	NORTHING	EASTING	ELEVATION
1	1957042.17	1061221.69	EX 740.56
2	1957051.32	1061220.88	EX 739.99
3	1957042.84	1061215.61	EX 740.13
4	1957052.00	1061214.67	739.62
5	1957043.85	1061206.46	EX 739.82
6	1957053.00	1061205.52	739.48
7	1957058.11	1061214.04	739.20
8	1957059.11	1061204.89	739.07
9	1957064.21	1061213.42	739.12
10	1957065.22	1061204.27	738.98
11	1957084.06	1061211.38	738.76
12	1957086.70	1061212.93	EX 738.81
13	1957071.86	1061203.58	738.61
14	1957069.06	1061202.51	EX 738.56

**NOTE:**

CONTRACTOR SHALL POURED CONCRETE FOR THE PROPOSED RAMP IMMEDIATELY ADJACENT TO THE CONCRETE FOUNDATION OF THE EXISTING POLE IN ORDER FOR THIS APS TO HAVE A COMPLAINT REACH DISTANCE

ROADWAY IMPROVEMENT SCHEDULE							
20200100	21101615	25200110	4000500	4000600	42400200	42400800	60605000
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE B-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	FOOT
3.73	22	22	21	388	373	29	20

MODEL: SMOBELNAMES FILE NAME: SHEETS

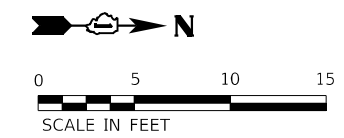
**DELTA ENGINEERING GROUP, LLC**  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - JS	REVISED -
PLOT SCALE = \$SCALES	DRAWN - PM	REVISED -
PLOT DATE = \$DATES	CHECKED - MA/JS	REVISED -
	DATE - 03/14/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (SE CORNER) IL 72 & NATIONAL PKWY, SCHAUMBURG, IL			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

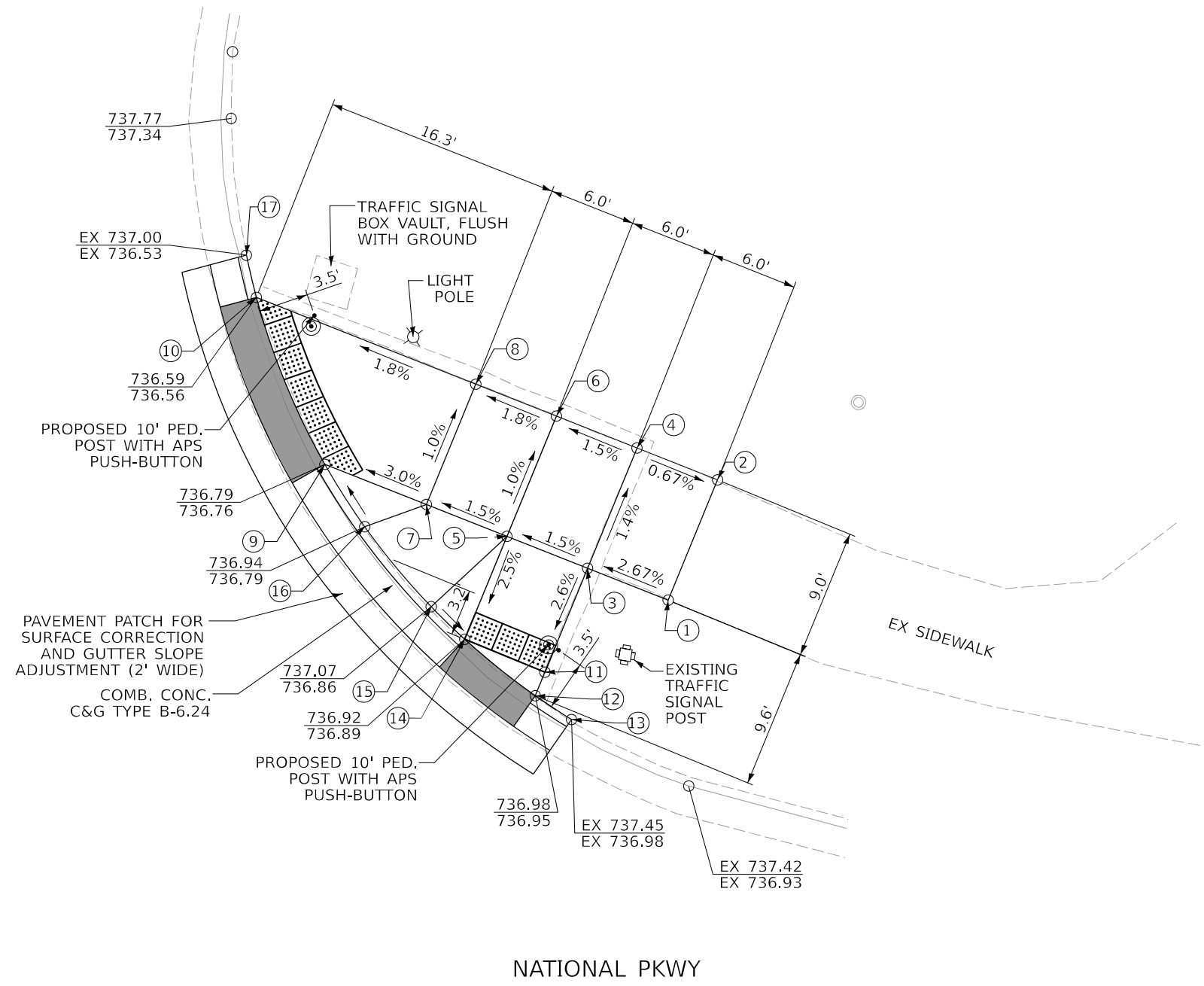
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	14
ILLINOIS FED. AID PROJECT				



**LEGEND**

	DETECTABLE WARNING
XX.XX	PROPOSED ELEVATION
EX XX.XX	EXISTING ELEVATION
XX.XX XX.XX	T/CURB ELEVATION B/CURB ELEVATION
	DEPRESSED CURB

IL 72



POINT #	NORTHING	EASTING	ELEVATION
1	1957286.28	1061100.35	EX 737.36
2	1957288.26	1061091.57	EX 737.03
3	1957280.41	1061099.11	737.20
4	1957282.39	1061090.33	737.07
5	1957274.54	1061097.87	737.11
6	1957276.52	1061089.08	736.98
7	1957268.67	1061096.63	737.02
8	1957270.65	1061087.84	736.89
9	1957261.28	1061095.06	736.79
10	1957254.67	1061084.46	736.59
11	1957279.15	1061104.75	737.03
12	1957278.32	1061108.41	736.98
13	1957281.07	1061109.61	EX 736.98
14	1957272.85	1061105.38	736.92
15	1957270.19	1061103.54	737.07
16	1957264.73	1061098.86	736.94
17	1957253.50	1061081.70	EX 736.53

ROADWAY IMPROVEMENT SCHEDULE							
20200100	21101615	25200110	4000500	4000600	42400200	42400800	60605000
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE B-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	FOOT
3.82	12	12	42	414	382	38	40

MODEL: 6400BELNAMES  
FILE: 6400BELNAMES  
DELTA ENGINEERING GROUP, LLC  
CHICAGO, IL 60604  
T 312.377.7700, F 312.427.6145

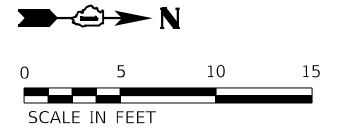
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DRAWN - PM	CHECKED - MA/JS	REVISED -
PLOT SCALE = \$SCALES	DATE - 03/14/2025	REVISED -
PLOT DATE = \$DATES		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (NW CORNER)  
IL 72 & NATIONAL PKWY, SCHAMBURG, IL

F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 15
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

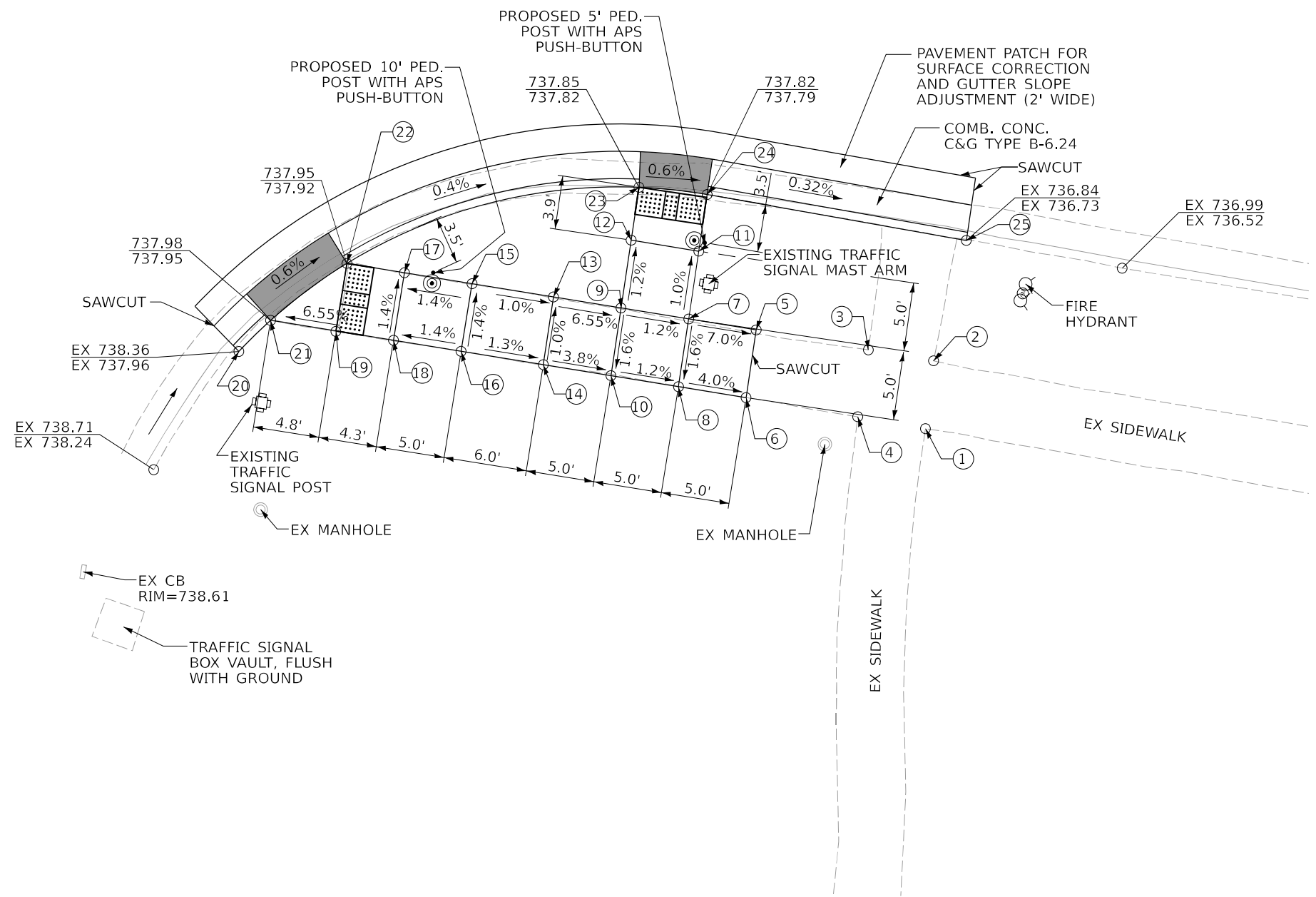
SCALE: SHEET OF SHEETS STA. TO STA.



NATIONAL PKWY

**LEGEND**

	DETECTABLE WARNING
XX.XX	PROPOSED ELEVATION
EX XX.XX	EXISTING ELEVATION
XX.XX XX.XX	T/CURB ELEVATION B/CURB ELEVATION
	DEPRESSED CURB



POINT #	NORTHING	EASTING	ELEVATION
1	1957291.39	1061214.52	EX 737.37
2	1957291.15	1061209.54	EX 737.18
3	1957286.32	1061209.55	EX 737.27
4	1957286.37	1061214.49	EX 737.52
5	1957277.99	1061209.49	EX 737.56
6	1957278.10	1061214.49	EX 737.63
7	1957273.01	1061209.52	737.91
8	1957273.10	1061214.52	737.83
9	1957268.01	1061209.56	737.97
10	1957268.10	1061214.56	737.89
11	1957272.90	1061204.52	737.86
12	1957267.90	1061204.56	737.91
13	1957262.99	1061209.59	738.03
14	1957263.10	1061214.59	738.08
15	1957256.98	1061209.64	738.09
16	1957257.01	1061214.64	738.16
17	1957251.98	1061209.67	738.02
18	1957252.10	1061214.67	738.09
19	1957247.76	1061214.70	738.02
20	1957241.01	1061217.36	EX 737.96
21	1957242.92	1061214.74	737.98
22	1957247.72	1061209.70	737.95
23	1957267.81	1061200.65	737.85
24	1957272.81	1061200.34	737.82
25	1957292.04	1061200.48	EX 736.76

ROADWAY IMPROVEMENT SCHEDULE							
20200100	21101615	25200110	4000500	4000600	42400200	42400800	60605000
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE B-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	FOOT
2.10	21	21	59	160	210	20	59

IL 72

MODEL: 6400BELNAMES  
FILE: 6400BELS

DELTA ENGINEERING GROUP, LLC  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - JS	REVISED -
DRAWN - PM	CHECKED - MA/JS	REVISED -
PLOT SCALE = \$SCALES	DATE - 03/14/2025	REVISED -
PLOT DATE = \$DATES		

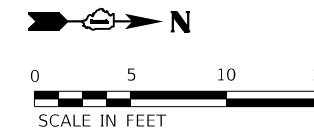
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (NE CORNER)  
 IL 72 & NATIONAL PKWY, SCHAUMBURG, IL

SCALE: SHEET OF SHEETS STA. TO STA.

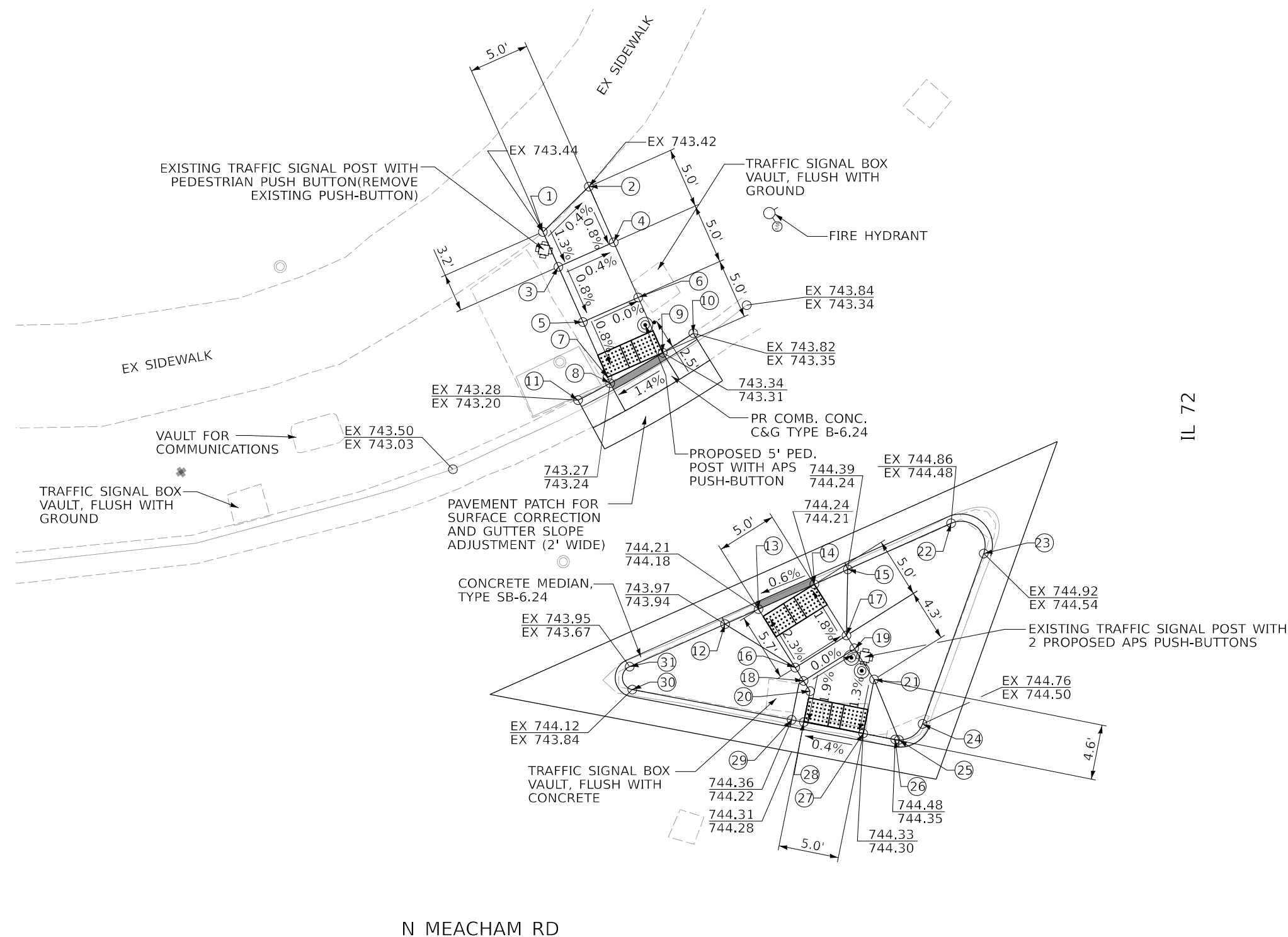
F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V89	





**LEGEND**

	DETECTABLE WARNING
XX.XX	PROPOSED ELEVATION
EX XX.XX	EXISTING ELEVATION
XX.XX	T/CURB ELEVATION
XX.XX	B/CURB ELEVATION
	DEPRESSED CURB



IL 72

POINT #	NORTHING	EASTING	ELEVATION
1	1956871.33	1062382.01	EX 743.44
2	1956874.45	1062377.68	EX 743.42
3	1956873.07	1062384.65	743.40
4	1956877.24	1062381.88	743.38
5	1956875.84	1062388.81	743.36
6	1956880.00	1062386.05	743.36
7	1956878.60	1062392.98	743.28
8	1956878.90	1062393.43	743.24
9	1956882.77	1062390.21	743.31
10	1956884.99	1062388.20	743.35
11	1956876.52	1062395.25	EX 743.20
12	1956891.61	1062411.47	743.97
13	1956894.13	1062409.79	744.18
14	1956898.34	1062406.99	744.21
15	1956900.86	1062405.32	744.24
16	1956897.93	1062414.05	744.34
17	1956901.66	1062410.73	744.33
18	1956898.80	1062415.02	744.35
19	1956902.53	1062411.69	744.34
20	1956899.47	1062415.77	744.36
21	1956904.52	1062413.93	744.39
22	1956908.65	1062400.12	EX 744.48
23	1956911.73	1062402.14	EX 744.54
24	1956909.09	1062416.88	EX 744.50
25	1956907.39	1062418.52	744.36
26	1956907.09	1062418.53	744.35
27	1956904.39	1062418.48	744.30
28	1956898.37	1062418.36	744.28
29	1956898.37	1062418.36	744.22
30	1956884.95	1062418.10	EX 743.84
31	1956884.42	1062416.27	EX 743.67

N MEACHAM RD

ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER, TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
1.59	7	7	12	162	159	30	464	11	464

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (SW CORNER)  
IL 72 & N MEACHAM RD, SCHAUMBURG, IL

SCALE: SHEET OF SHEETS STA. TO STA.

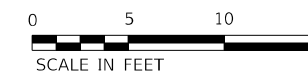
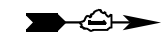
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	17
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

MODEL: 6400BELNAMES  
FILE: 6400BELNAMES

**DELTA ENGINEERING GROUP, LLC**  
CHANGING ENGINEERS, CONSTRUCTING MANAGERS, SURVEYORS  
111 W JACKSON BLVD, SUITE 910  
CHICAGO, IL 60604  
T 312.377.7700, F 312.427.6145

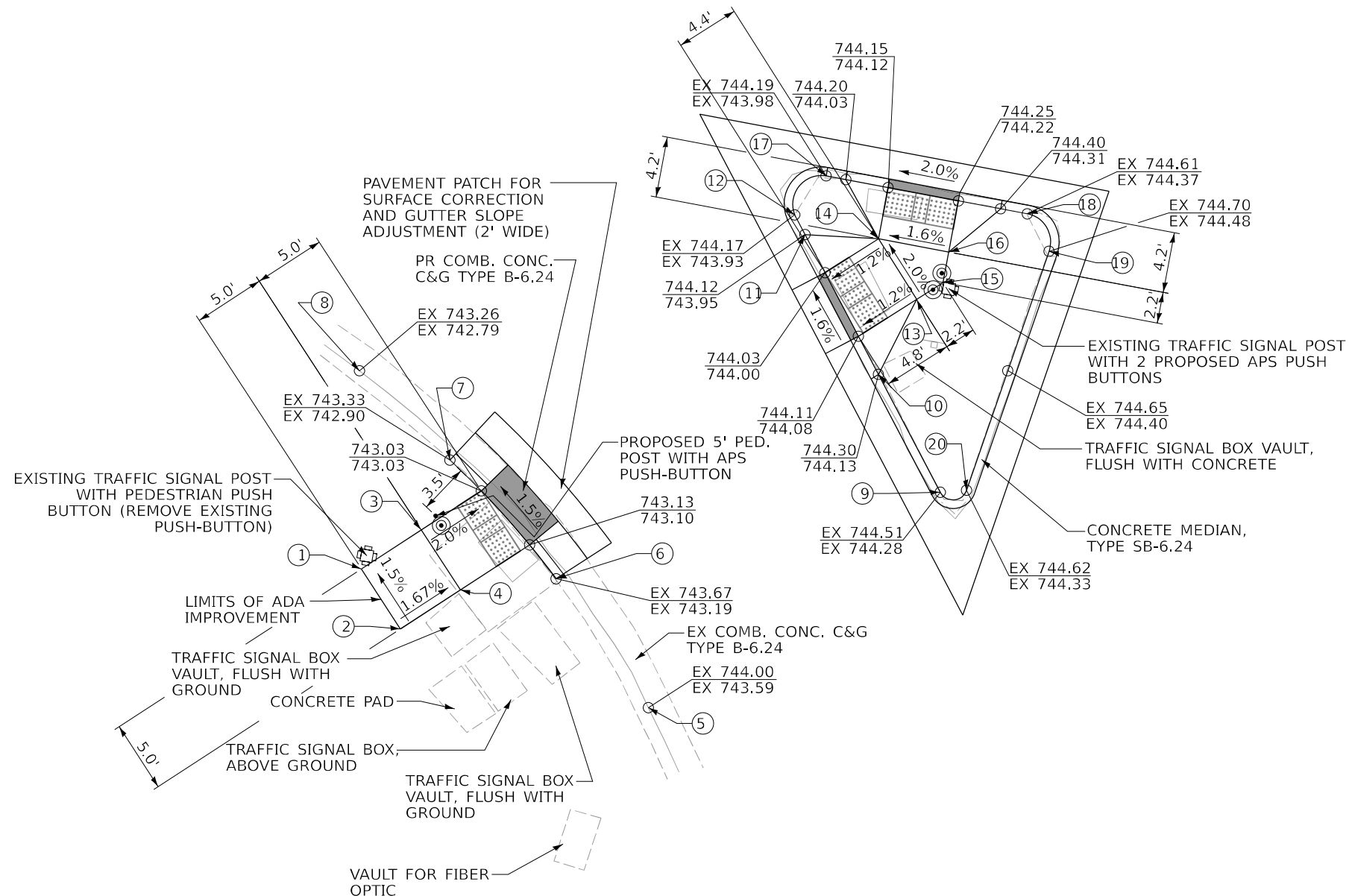
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	DRAWN - PM	REVISED -
PLOT SCALE = \$SCALES	CHECKED - MA/JS	REVISED -
PLOT DATE = \$DATES	DATE - 03/14/2025	REVISED -

MEACHAM RD



LEGEND

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION
- XX.XX B/CURB ELEVATION
- DEPRESSED CURB



IL 72

POINT #	NORTHING	EASTING	ELEVATION
1	1956845.69	1062555.95	EX 743.23
2	1956849.08	1062559.62	743.31
3	1956849.37	1062552.56	743.13
4	1956852.76	1062556.23	743.23
5	1956867.08	1062562.15	EX 743.59
6	1956859.22	1062554.35	EX 743.19
7	1956850.52	1062547.41	EX 742.90
8	1956843.25	1062542.32	EX 642.79
9	1956884.67	1062543.89	EX 744.28
10	1956879.03	1062536.50	744.13
11	1956872.33	1062527.72	743.95
12	1956871.39	1062526.49	EX 743.93
13	1956880.79	1062530.87	744.17
14	1956877.44	1062527.16	744.09
15	1956882.40	1062529.42	744.22
16	1956882.44	1062527.25	744.16
17	1956873.10	1062523.44	EX 743.98
18	1956887.40	1062523.70	EX 744.37
19	1956889.34	1062526.02	EX 744.48
20	1956886.45	1062543.45	EX 744.33

ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER, TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
1.29	2	2	12	120	129	30	374	11	371

MODEL: 6400BELNAMES  
FILE: 6400BELNAMES



USER NAME = \$USERS	DESIGNED - JS	REVISED -
DRAWN - PM	CHECKED - MA/JS	REVISED -
PLOT SCALE = \$SCALES	DATE - 03/14/2025	REVISED -
PLOT DATE = \$DATES		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ADA IMPROVEMENT PLAN (SE CORNER)  
IL 72 & N MEACHAM RD, SCHAUMBURG, IL

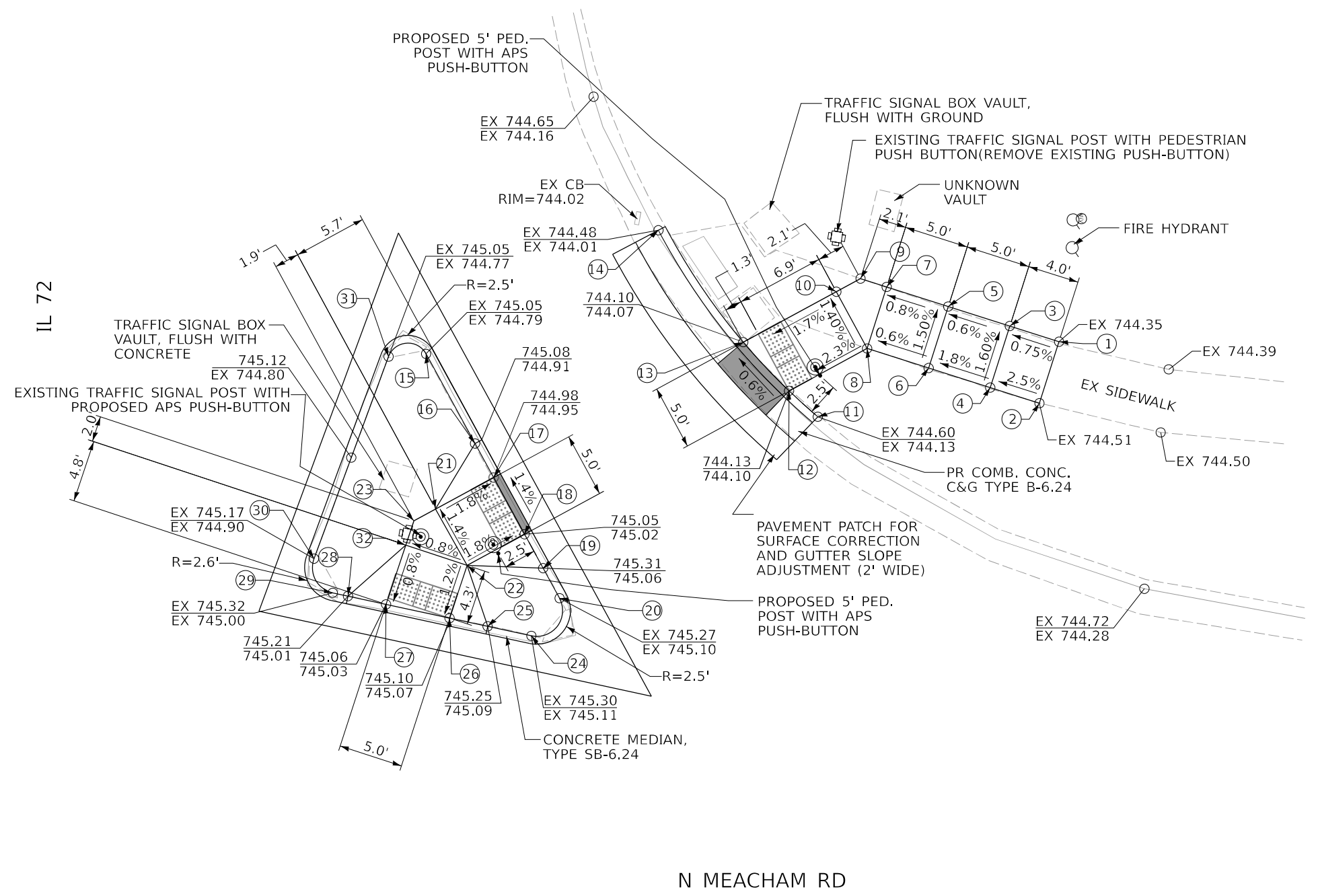
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	18
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION  
XX.XX B/CURB ELEVATION
- DEPRESSED CURB



POINT #	NORTHING	EASTING	ELEVATION
1	1957078.06	1062390.72	EX 744.35
2	1957077.36	1062395.67	EX 744.51
3	1957074.10	1062390.16	744.32
4	1957073.40	1062395.11	744.41
5	1957069.15	1062389.46	744.29
6	1957068.45	1062394.41	744.32
7	1957064.20	1062388.77	744.25
8	1957063.50	1062393.72	744.29
9	1957062.09	1062388.47	744.25
10	1957060.41	1062389.78	744.22
11	1957060.62	1062399.57	EX 744.13
12	1957058.09	1062397.96	744.10
13	1957053.97	1062394.84	744.07
14	1957046.04	1062387.40	744.01
15	1957029.90	1062399.85	EX 744.79
16	1957034.80	1062406.06	744.91
17	1957036.66	1062408.41	744.95
18	1957039.75	1062412.35	745.02
19	1957041.62	1062414.69	745.06
20	1957043.26	1062416.77	EX 745.10
21	1957032.63	1062411.57	745.08
22	1957035.77	1062415.47	745.15
23	1957031.13	1062412.75	745.12
24	1957041.60	1062420.01	EX 745.11
25	1957038.13	1062419.85	745.09
26	1957035.12	1062419.72	745.07
27	1957030.09	1062419.50	745.03
28	1957027.08	1062419.35	745.01
29	1957025.88	1062419.30	EX 745.00
30	1957024.00	1062416.93	EX 744.90
31	1957027.07	1062400.54	EX 744.77
32	1957030.83	1062414.71	745.10

ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
2.05	17	17	20	228	205	30	393	19	393

MODEL: 6400BELNAMES  
FILE: 6400BELNAMES

**DELTA ENGINEERING GROUP, LLC**  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - JS	REVISED -
PLOT SCALE = \$SCALES	DRAWN - PM	REVISED -
PLOT DATE = \$DATES	CHECKED - MA/JS	REVISED -
	DATE - 03/14/2025	REVISED -

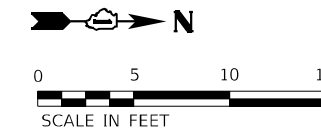
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA IMPROVEMENT PLAN (NW CORNER)  
IL 72 & N MEACHAM RD, SCHAUMBURG, IL**

SCALE: SHEET OF SHEETS STA. TO STA.

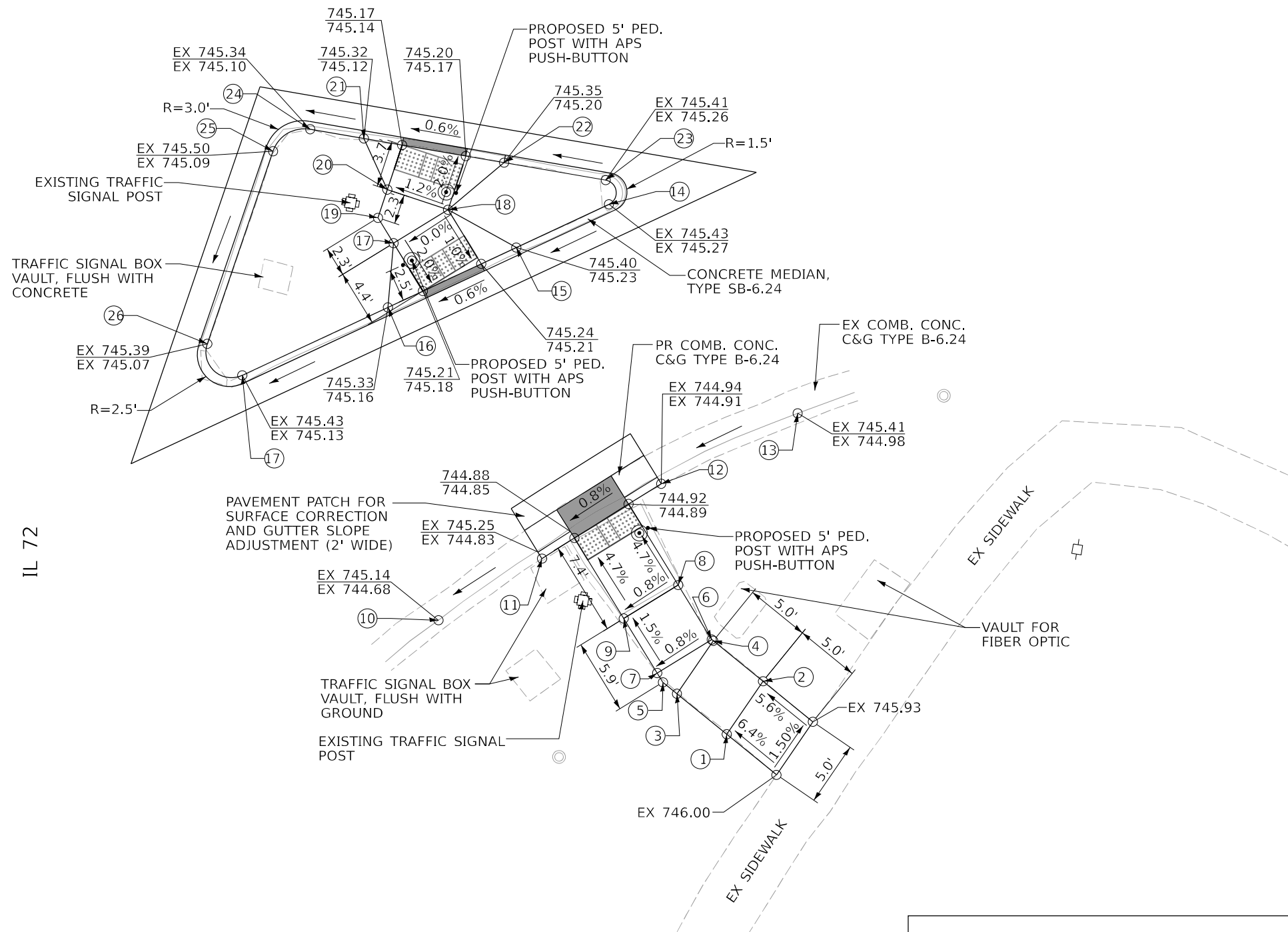
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	19
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

N MEACHAM RD



**LEGEND**

- DETECTABLE WARNING
- XX.XX PROPOSED ELEVATION
- EX XX.XX EXISTING ELEVATION
- XX.XX T/CURB ELEVATION
- XX.XX B/CURB ELEVATION
- DEPRESSED CURB



ROADWAY IMPROVEMENT SCHEDULE									
20200100	21101615	25200110	4000500	4000600	42400200	42400800	44003100	60605000	60619200
EARTH EXCAVATION	SODDING, SALT TOLERANT	TOPSOIL FURNISH AND PLACE, 4"	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNING	MEDIAN REMOVAL	COMBINATION CURB AND GUTTER, TYPE B-6.24	CONCRETE MEDIAN TYPE SB-6.24
CU YD	SQ YD	SQ YD	FOOT	SQ FT	SQ FT	SQ FT	SQ FT	FOOT	SQ FT
1.20	12	12	11	211	120	30	524	11	524

MODEL: 640DELNAME5  
FILE NAME: 5FELE5

**DELTA ENGINEERING GROUP, LLC**  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - JS	REVISED -
DRAWN - PM	REVISIONS -	
CHECKED - MA/JS	REVISIONS -	
DATE - 03/14/2025	REVISIONS -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

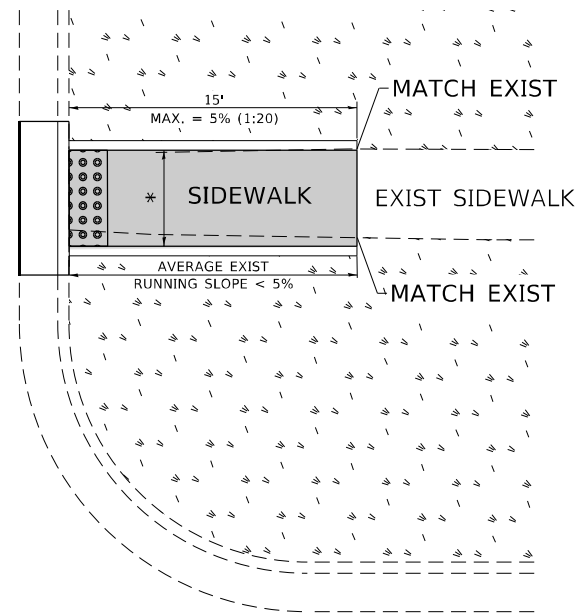
ADA IMPROVEMENT PLAN (NE CORNER)  
 IL 72 & N MEACHAM RD, SCHAUMBURG, IL

SCALE: SHEET OF SHEETS STA. TO STA.

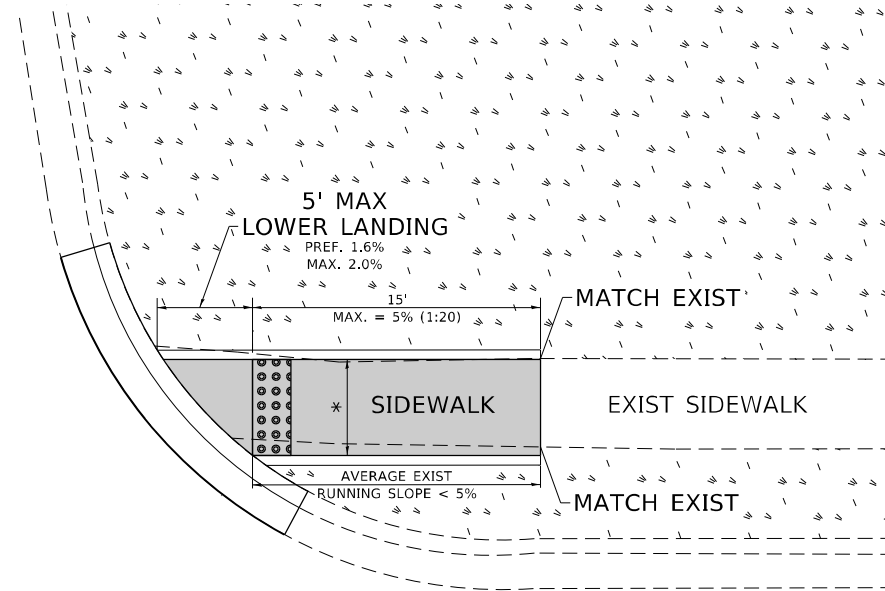
F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 20
CONTRACT NO. 62V89				
ILLINOIS FED. AID PROJECT				

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

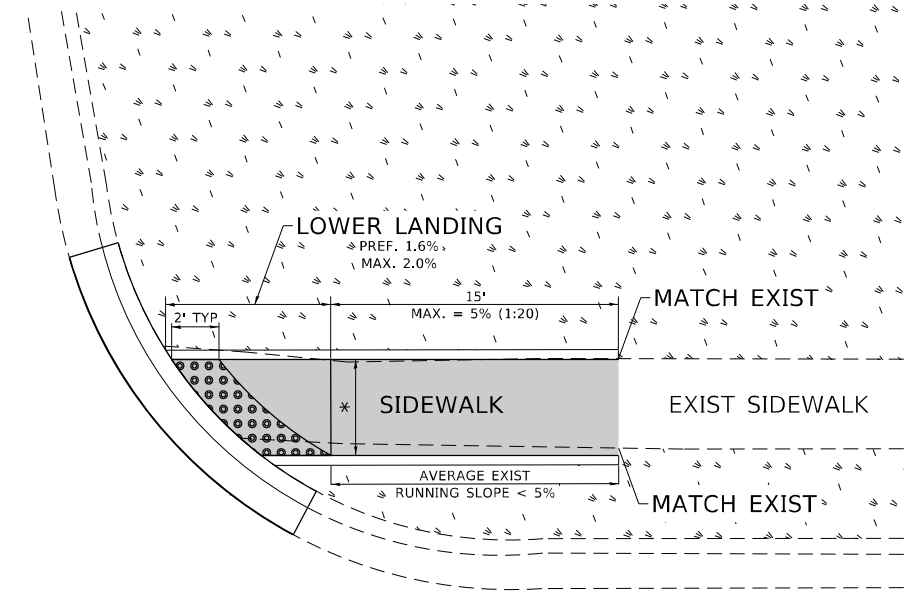
**PD-01A**



**PD-01B**



**PD-01C**



**LEGEND**

- PROPOSED SIDE CURB
- EXIST. GRASS
- 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

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USER NAME = yaseen.ureshi	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/27/2025	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

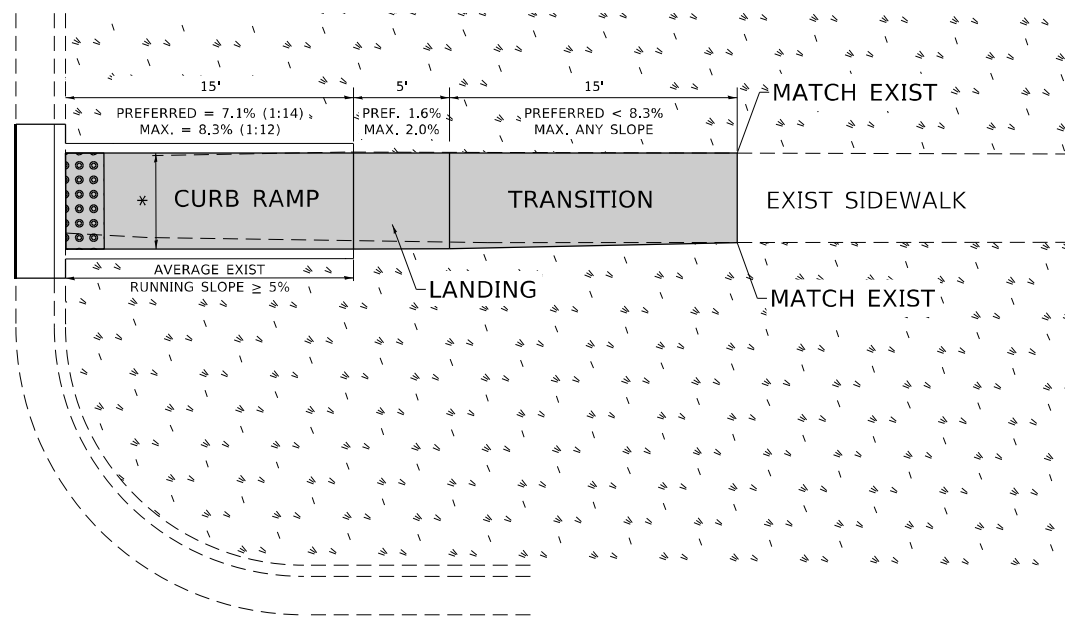
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-01)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

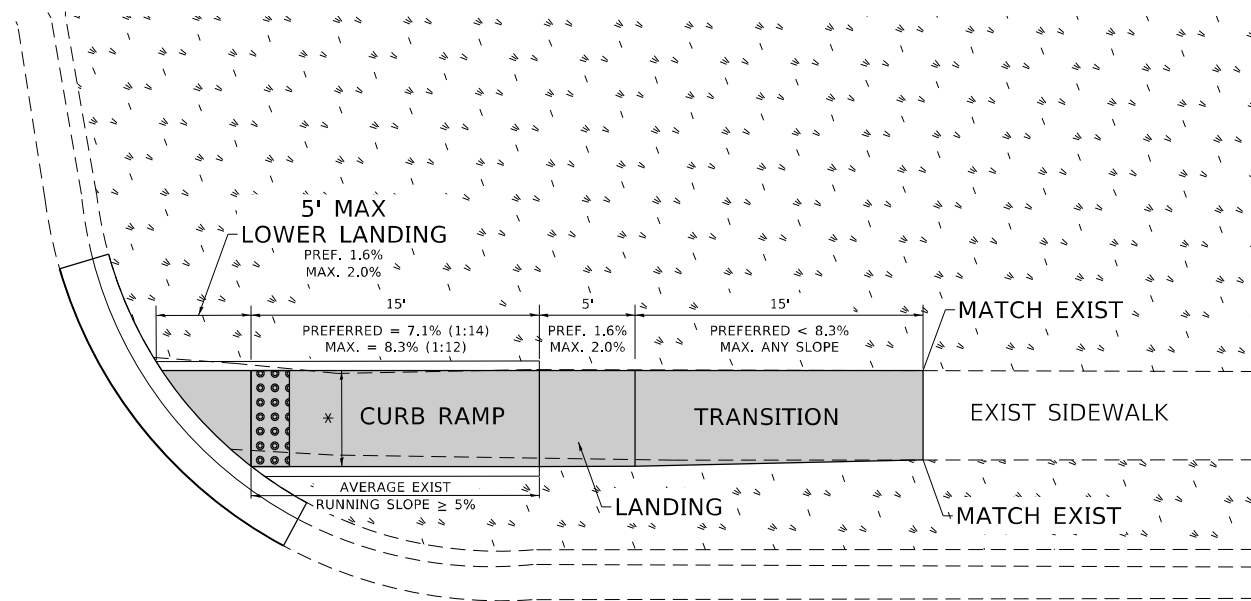
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	21
PD-01			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				

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

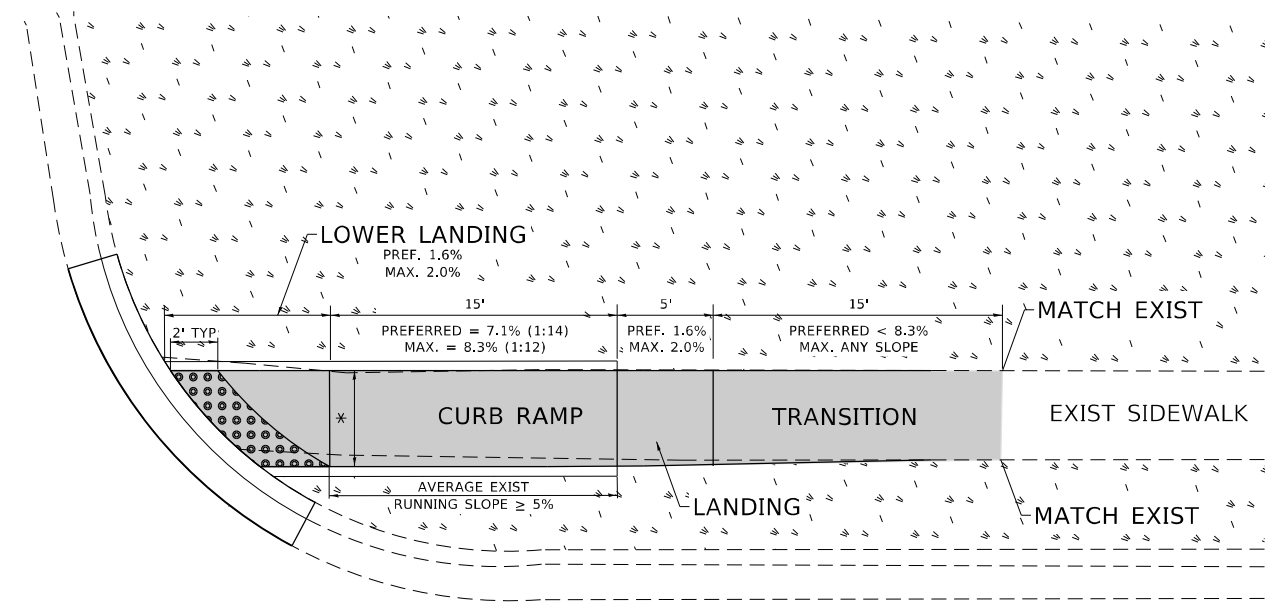
**PD-02A**



**PD-02B**



**PD-02C**



**LEGEND**

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

**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

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USER NAME = yaseen.queshi	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - R. LEDEZMA	REVISED -
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	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

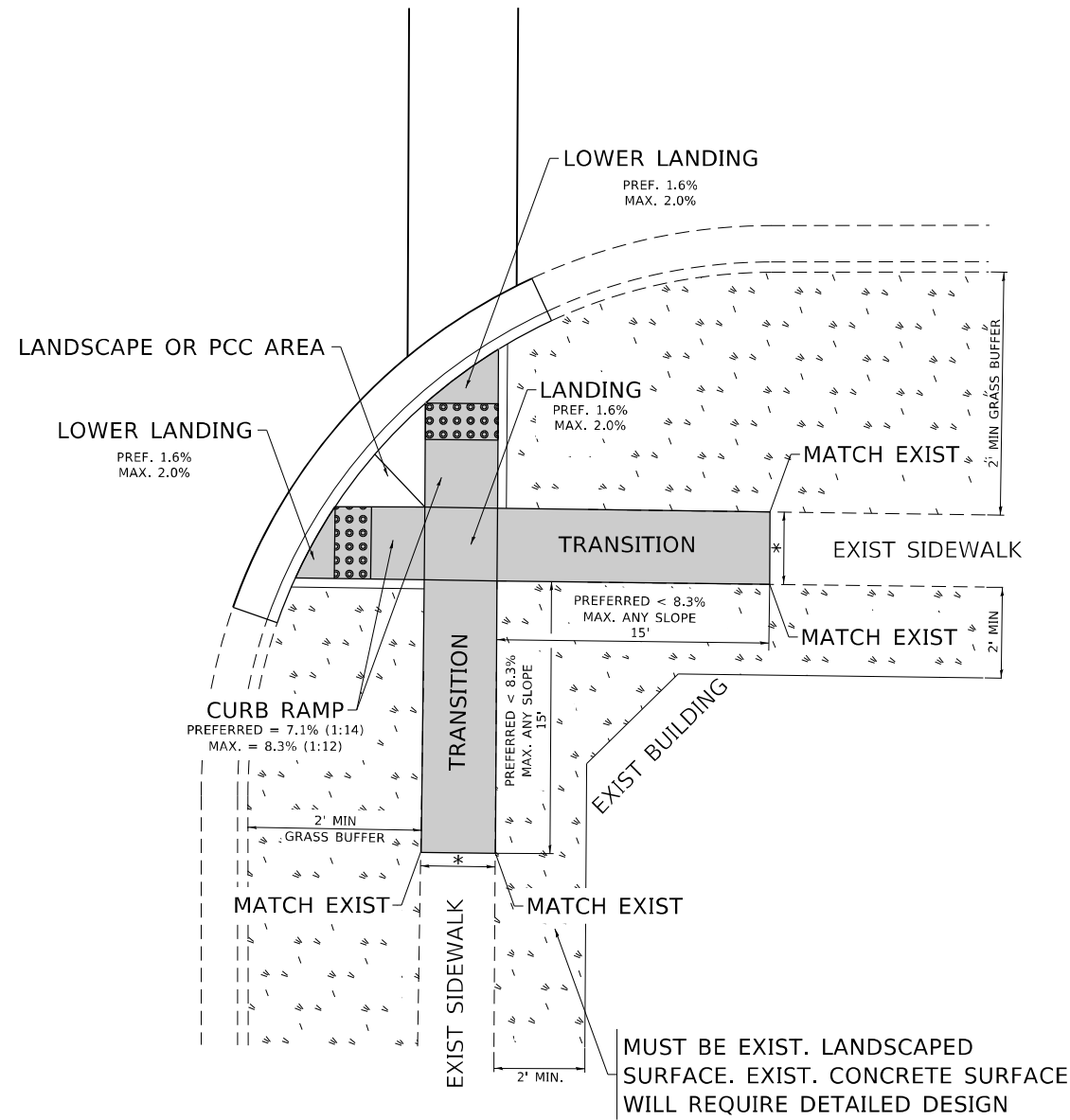
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-02)**

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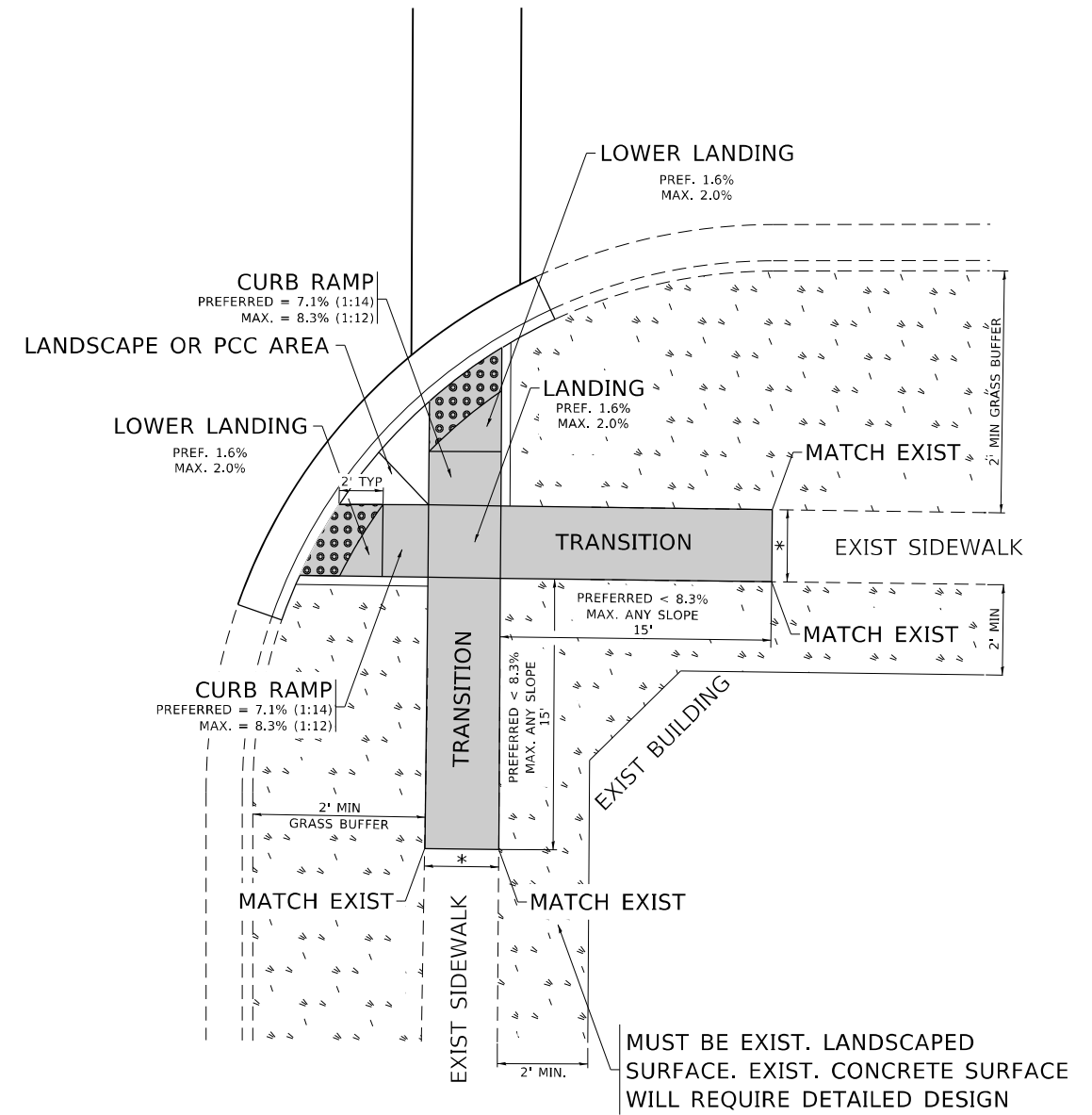
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341	FAP 0341 23 SMART2	COOK	44	22
PD-02			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS

**PD-03A**



**PD-03B**



**LEGEND**

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

**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

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	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/27/2025	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

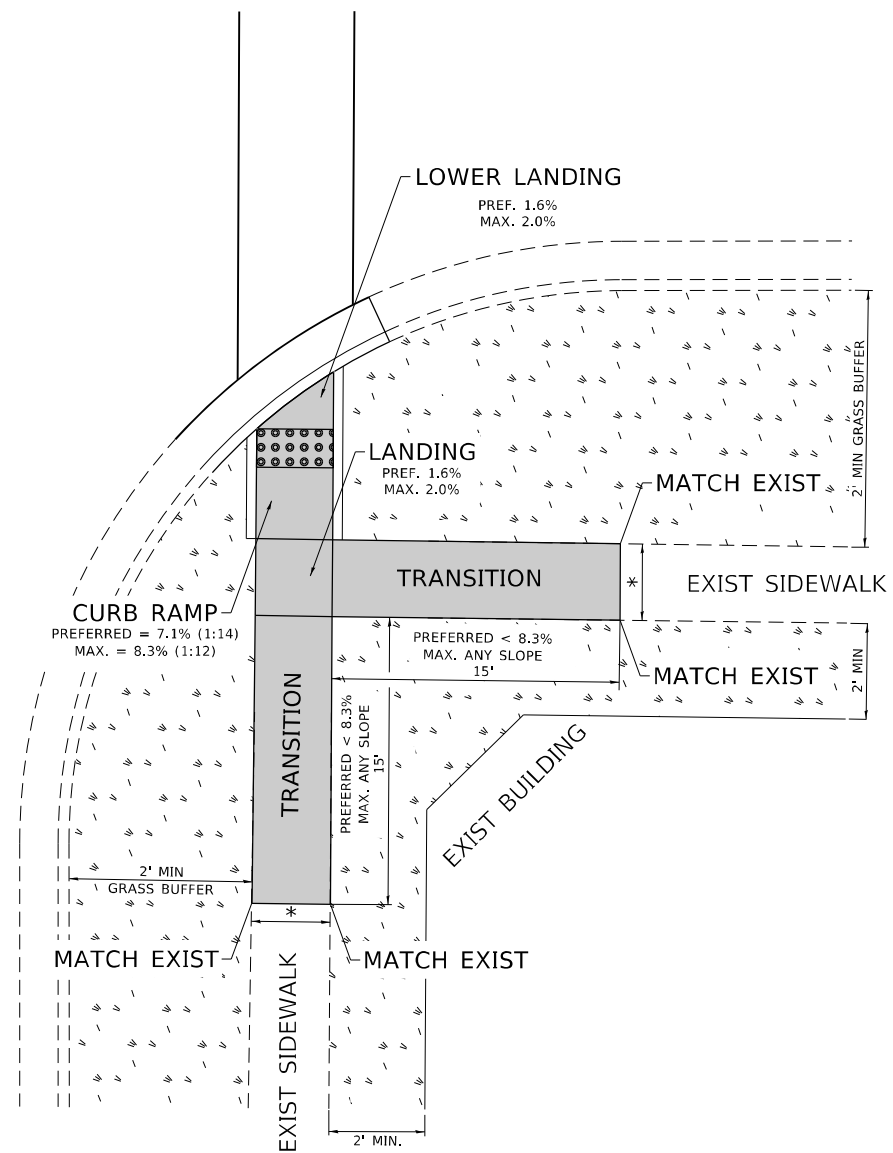
**PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS  
(PD-03)**

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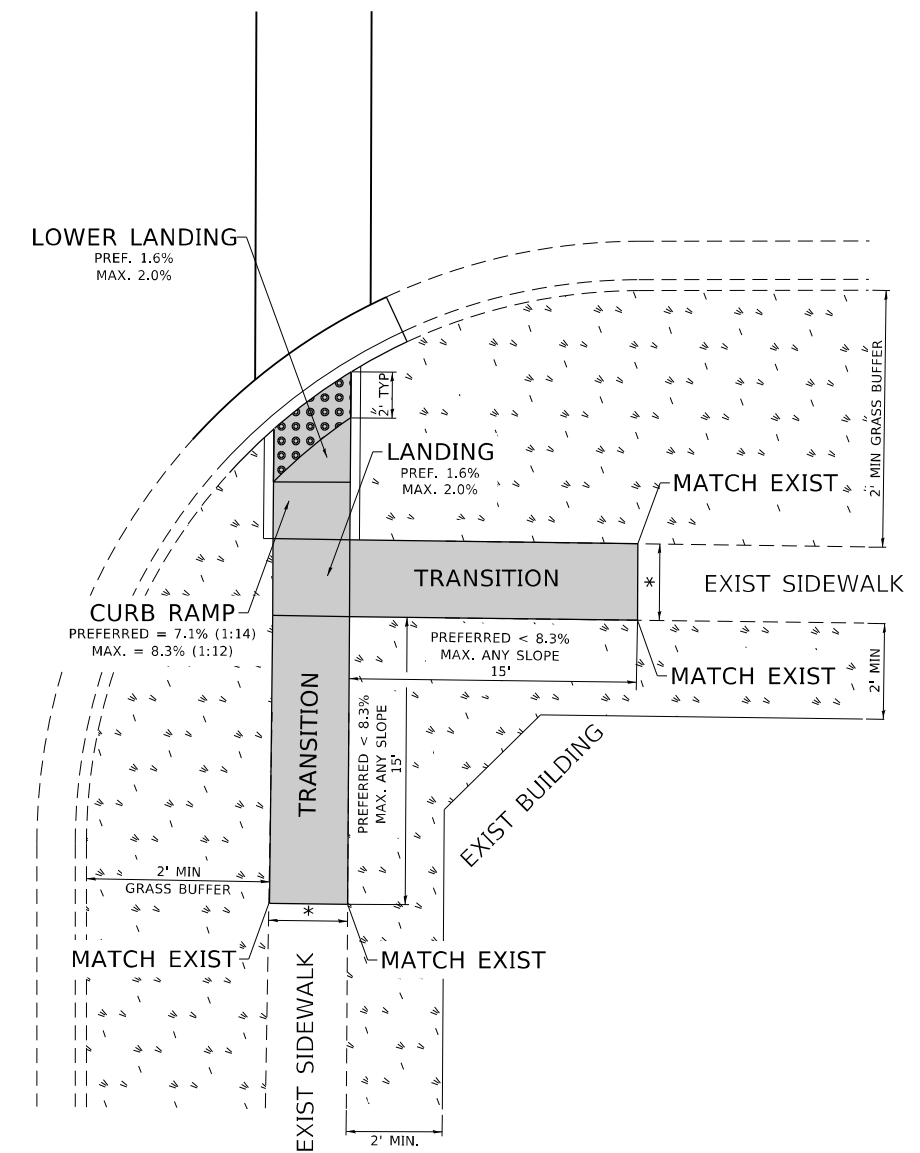
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341	FAP 0341 23 SMART2	COOK	44	23
PD-03			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				

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

**PD-04A**



**PD-04B**



**LEGEND**

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

**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

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PLOT SCALE = 100,0000' / in.	DRAWN - R. LEDEZMA	REVISED -
PLOT DATE = 1/27/2025	CHECKED -	REVISED -
	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

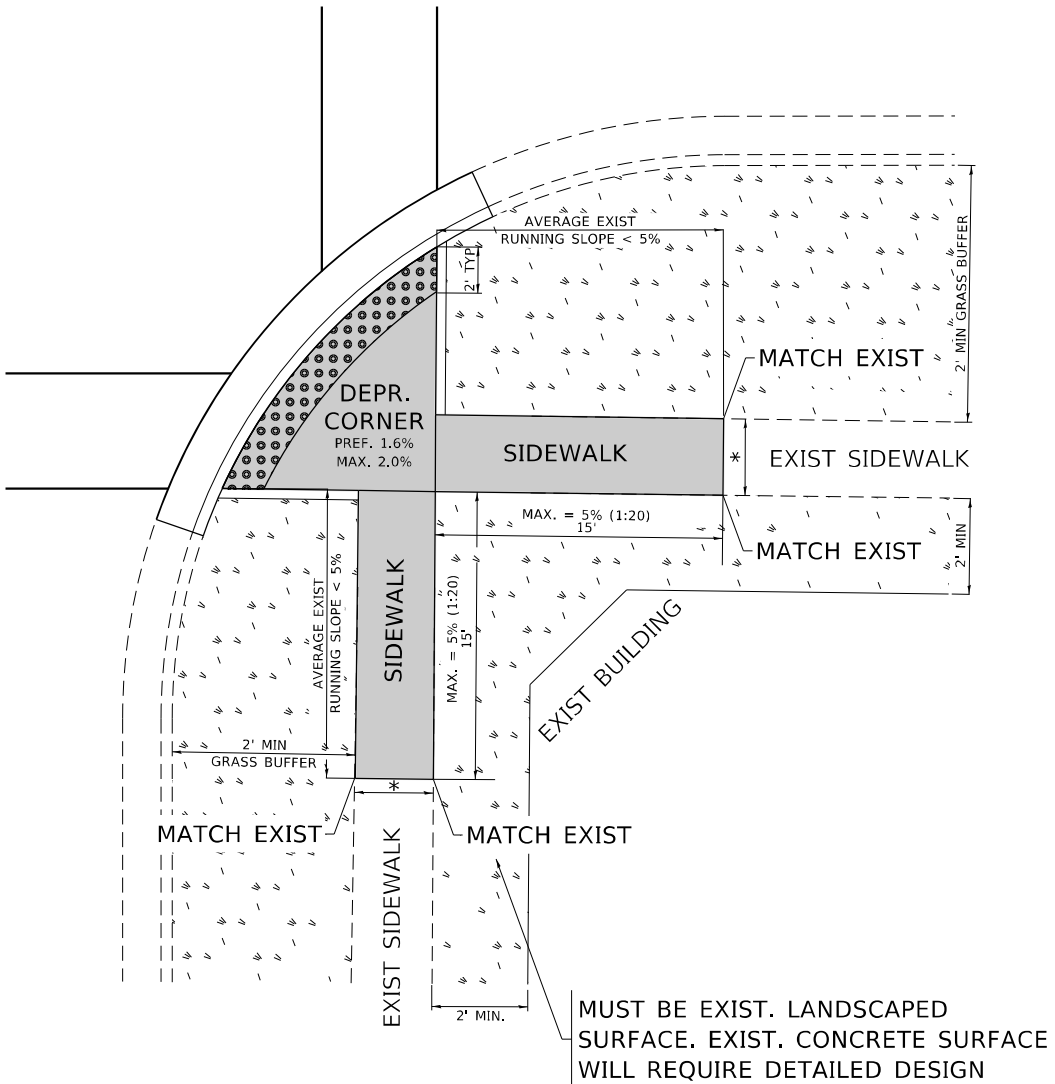
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PD-04		CONTRACT NO. 62V89		
ILLINOIS FED. AID PROJECT				

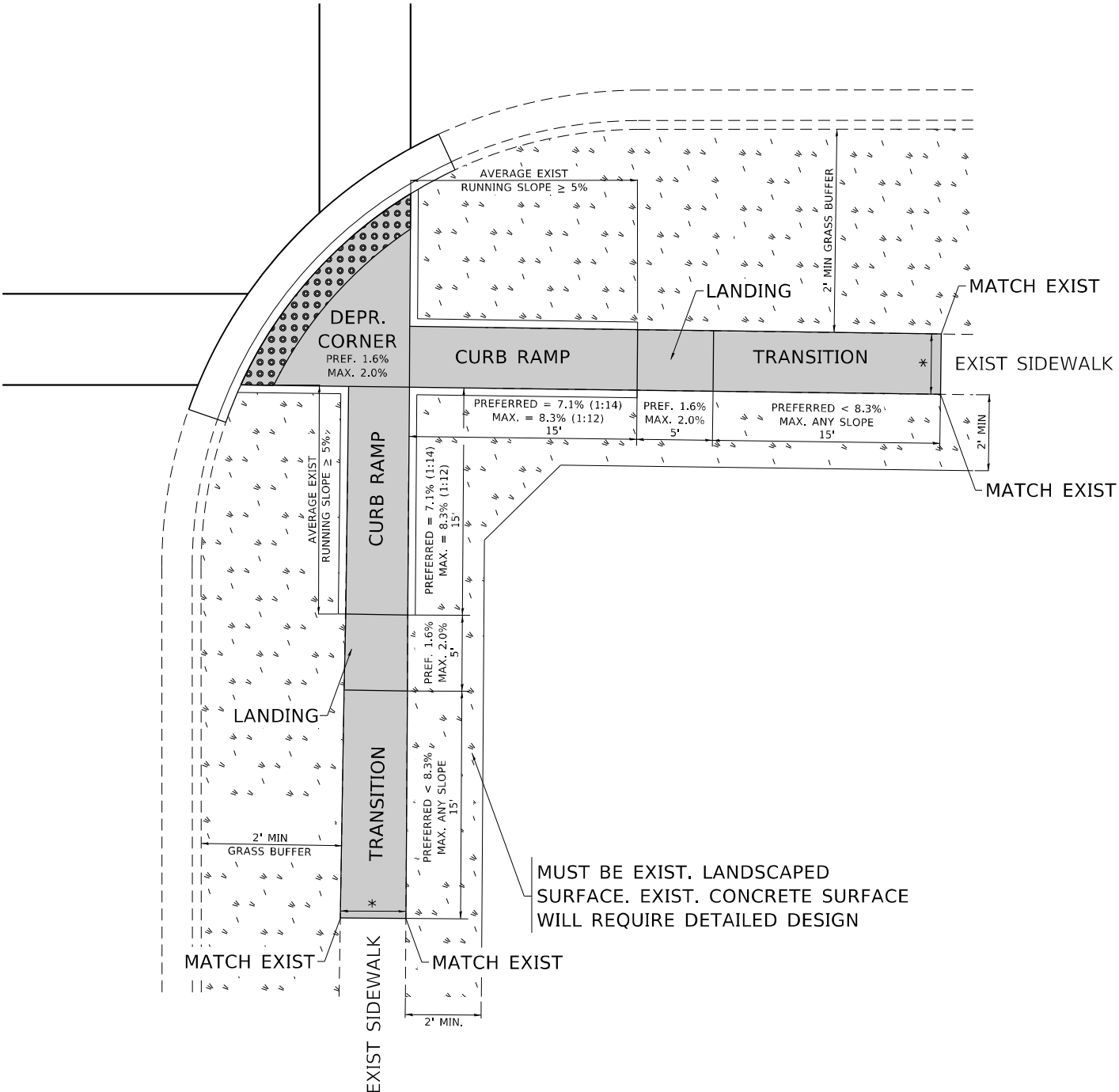


ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

PD-05A



PD-05B



LEGEND

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

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

USER NAME = yaseen.ureshi	DESIGNED -	REVISED -
DRAWN - R. LEDEZMA	REVISIED -	REVISIED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 1/27/2025	DATE - 10/02/2019	REVISIED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

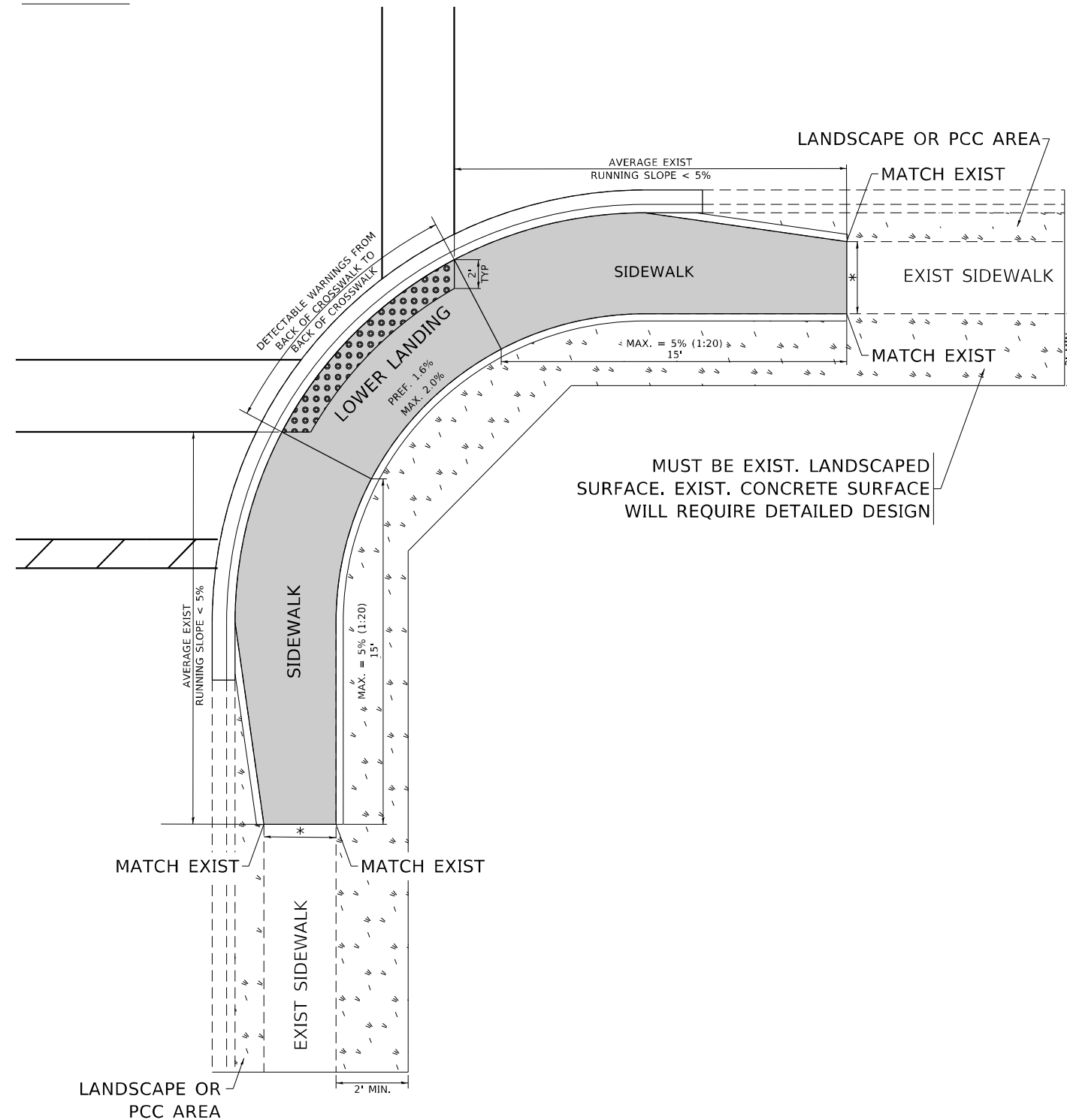
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PD-05		CONTRACT NO. 62V89		
ILLINOIS FED. AID PROJECT				

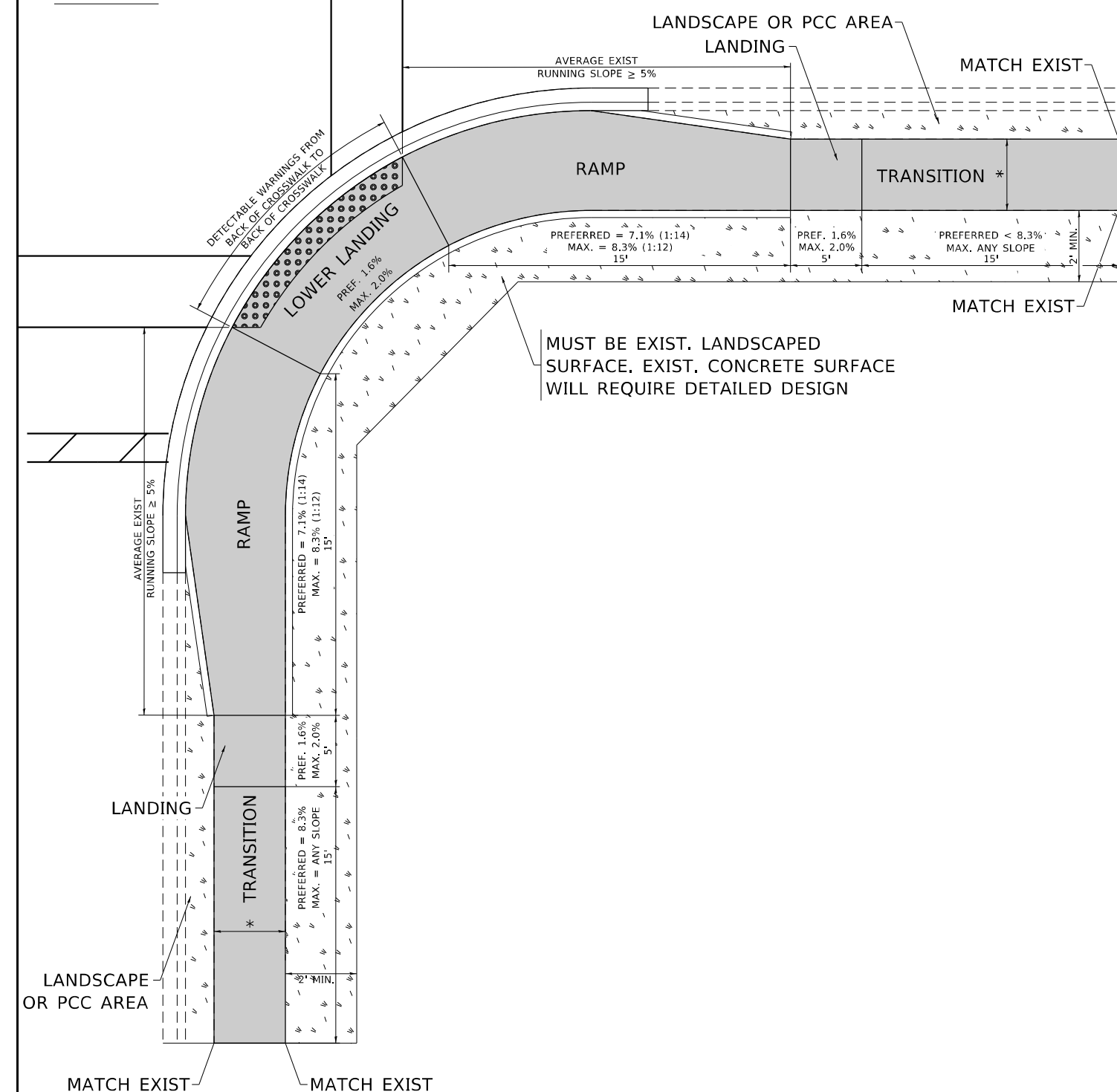
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# ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

**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: Default  
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USER NAME = yaseen.ureshi	DESIGNED -	REVISED -
DRAWN - R. LEDEZMA	REVISOR -	REVISOR -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 1/27/2025	DATE - 10/02/2019	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	26
PD-06		CONTRACT NO. 62V89		
ILLINOIS FED. AID PROJECT				

**NOTES:**

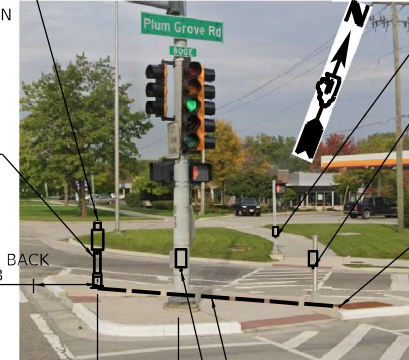
1. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
2. CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.
3. APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. ALL PUSH BUTTONS SHALL BE APS.
5. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB.
6. SEE PROPOSED ADA RAMP IMPROVEMENT PLANS TO DETERMINE EXACT LOCATION FOR INSTALLATION OF PROPOSED PEDESTRIAN POST.
7. DISTANCE BETWEEN ANY TWO PROPOSED ADJACENT POSTS EQUIPPED WITH APS PUSH-BUTTONS SHALL NOT BE LESS THAN 10'. HOWEVER, IF POSTS ARE PLACED CLOSED TOGETHER, EACH APS PUSH-BUTTON SHALL BE PROVIDED WITH A SPEECH WALK MESSAGE FOR THE WALKING PERSON AND A SPEECH PUSH-BUTTON INFORMATION MESSAGE.

INSTALL 5' PED. POST WITH APS PUSH-BUTTON

NEW 2C CABLE

3' FROM BACK OF CURB

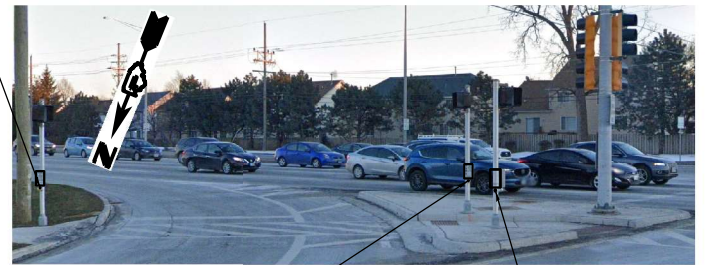
NORTHWEST CORNER



REMOVE EXISTING PUSH-BUTTON AND INSTALL NEW APS PUSH-BUTTON FACING NORTH  
REMOVE EXISTING PUSH-BUTTON AND INSTALL NEW APS PUSH-BUTTON FACING SOUTH

DRILL EXISTING HANDHOLE

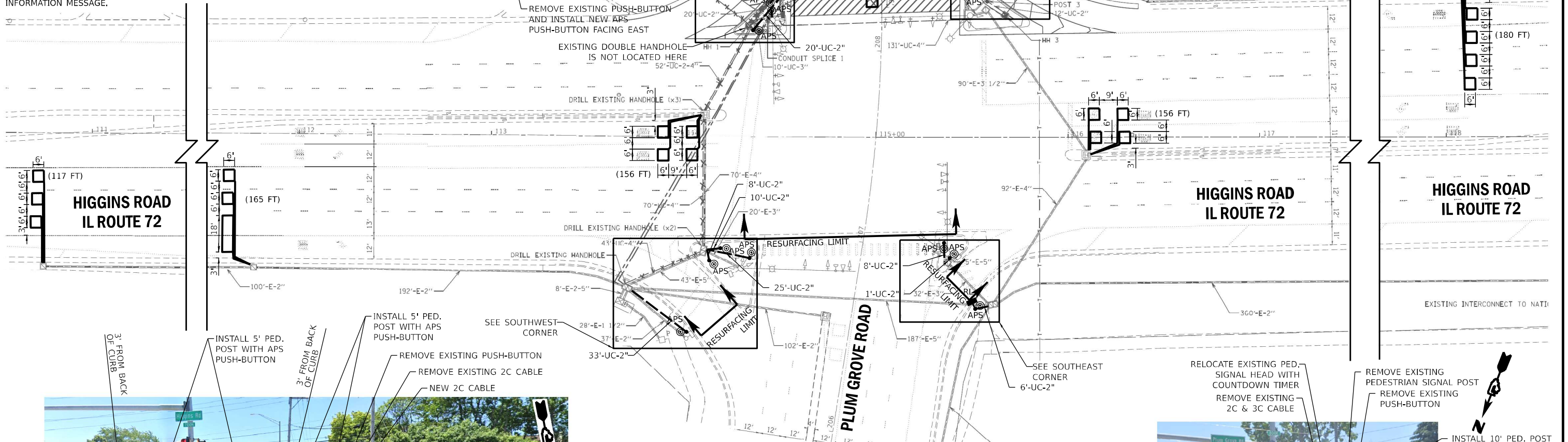
REMOVE EXISTING PUSH-BUTTON AND INSTALL NEW APS PUSH-BUTTON FACING NORTH



REMOVE EXISTING PUSH-BUTTON AND INSTALL NEW APS PUSH-BUTTON FACING NORTH

NORTHEAST CORNER

REMOVE EXISTING PUSH-BUTTON AND INSTALL NEW APS PUSH-BUTTON FACING SOUTH



HIGGINS ROAD IL ROUTE 72

HIGGINS ROAD IL ROUTE 72

PLUM GROVE ROAD

**REMOVAL AND RELOCATION NOTES**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

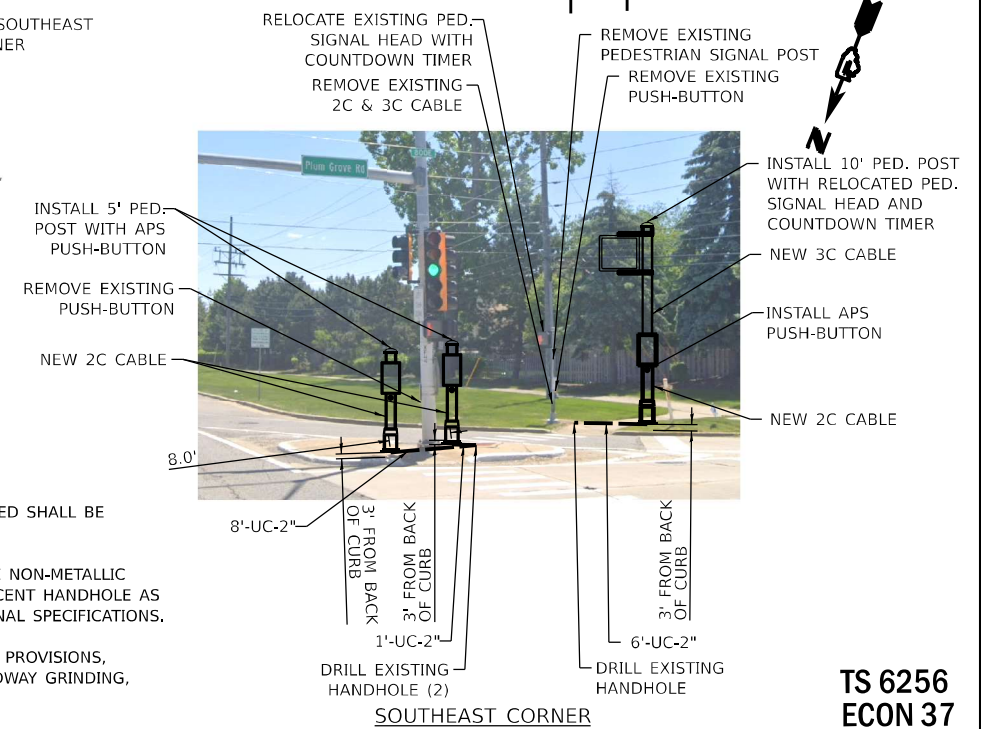
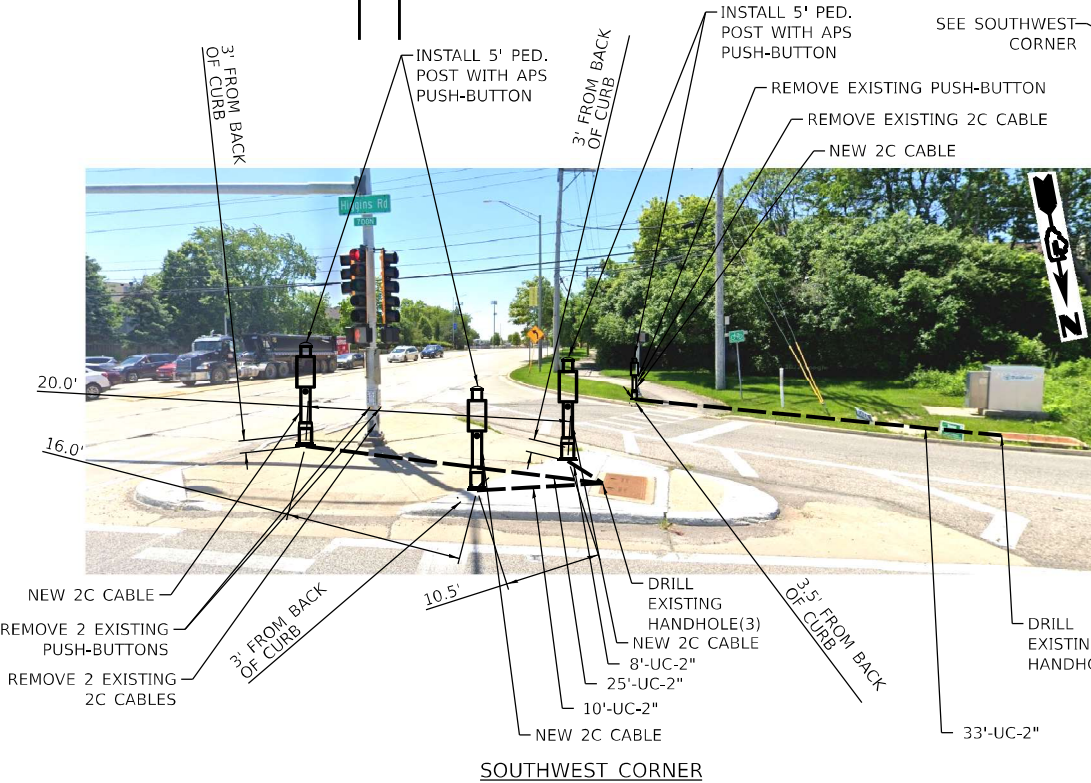
- 11 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED 10 FT POST.

- 1 EACH PEDESTRIAN SIGNAL HEAD

**NOTES (CONTD.):**

8. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
9. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
10. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APS INSTALLATION PLAN  
IL-72 & PLUM GROVE RD., SCHAUMBURG, IL

TS 6256  
ECON 37

DELTA ENGINEERING GROUP, LLC  
111 W JACKSON BLVD, SUITE 910  
CHICAGO, IL 60604  
T 312.377.7700, F 312.427.6145

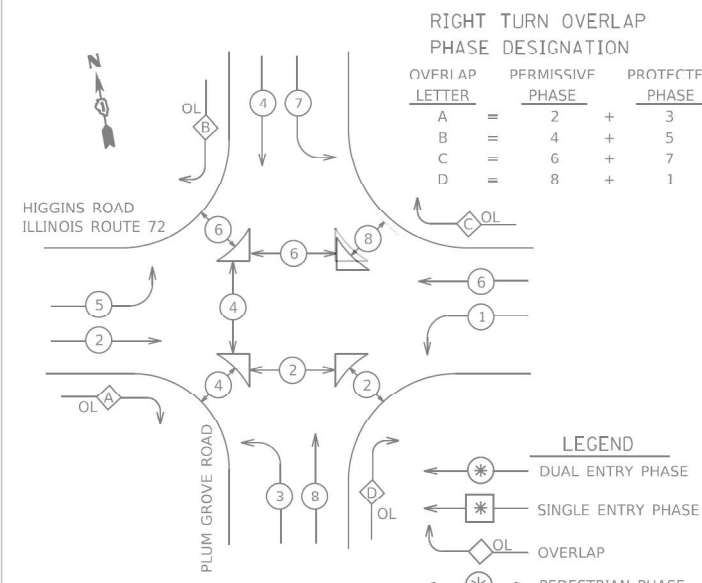
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	DATE - 03/14/2025	REVISED -

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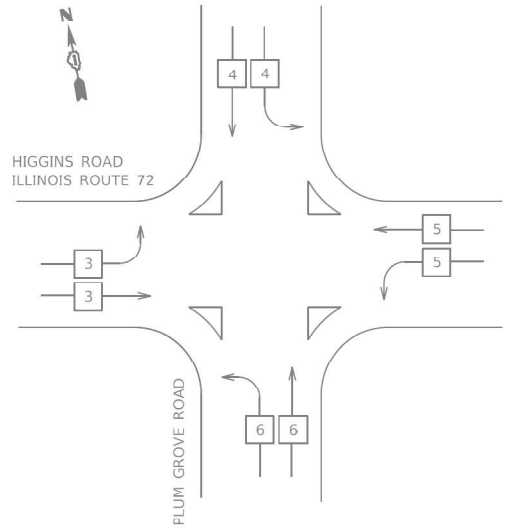
F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 27
CONTRACT NO. 62V89				

ILLINOIS	FED. AID PROJECT
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**EXISTING CONTROLLER SEQUENCE**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

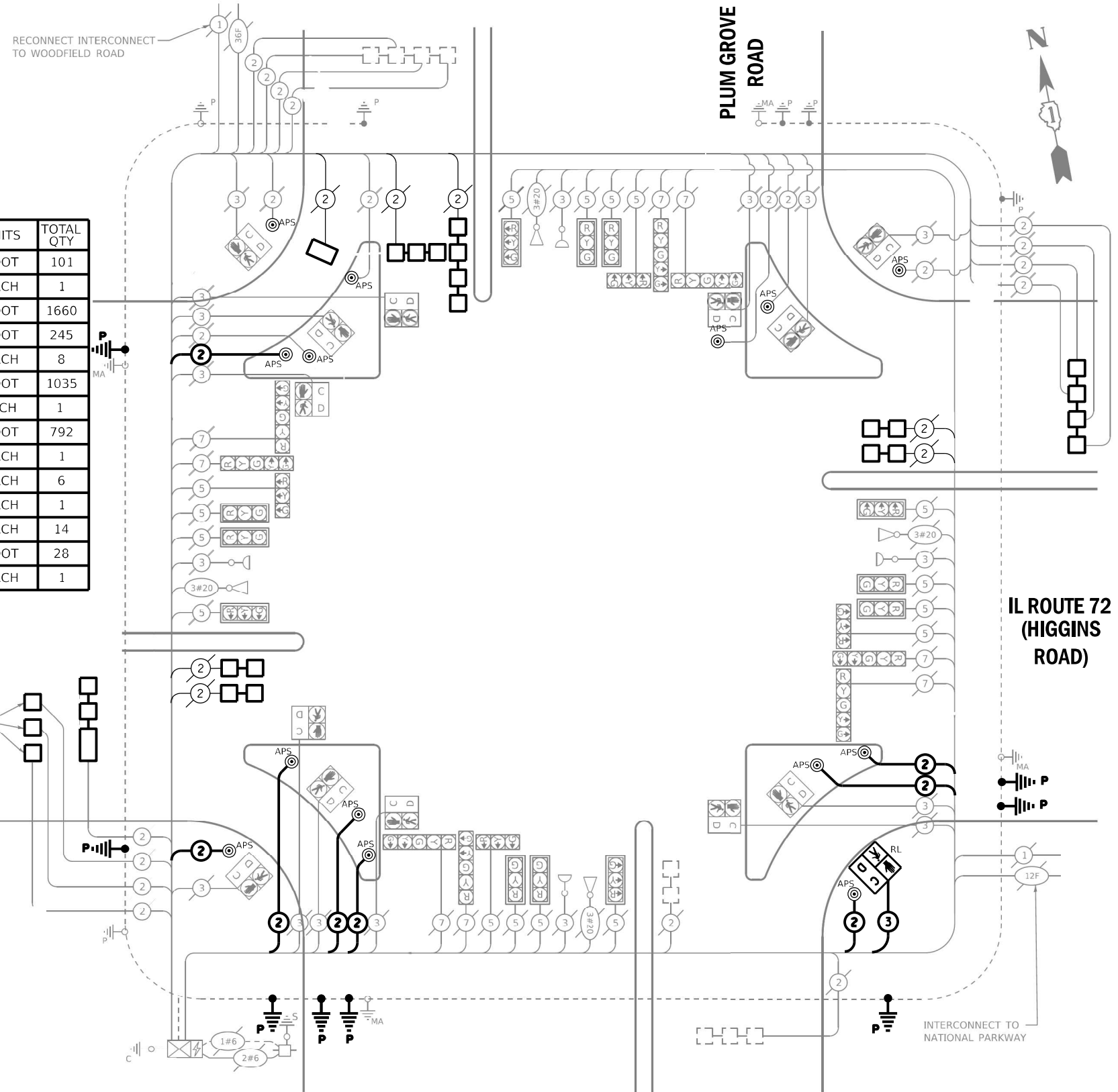
ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	101
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1660
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	245
DRILL EXISTING HANDHOLE	EACH	8
DETECTOR LOOP, TYPE 1	FOOT	1035
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	792
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	6
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	14
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	14	15	210
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>	<b>665</b>		
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING</b>	<b>1270</b>		

ENERGY COSTS TO:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: PHONE: ---  
COMPANY: ---  
ACCOUNT NUMBER: ---  
METER NUMBER: ---



**CABLE PLAN**

NOT TO SCALE

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

APS CABLE PLAN  
IL-72 & PLUM GROVE RD, SCHLAUBURG, IL

**TS 3245  
ECON 84**

MODEL NUMBER NAMES  
FILE NAMES SERIALS

DELTA ENGINEERING GROUP, LLC  
111 W JACKSON BLVD, SUITE 910  
CHICAGO, IL 60604  
T 312.377.7700, F 312.427.6145

USER NAME = \$USERS  
PLOT SCALE = \$SCALES  
PLOT DATE = \$DATES

DESIGNED - MA  
DRAWN - NS  
CHECKED - MA  
DATE - 03/14/2025

REVISED -  
REVISED -  
REVISED -  
REVISED -

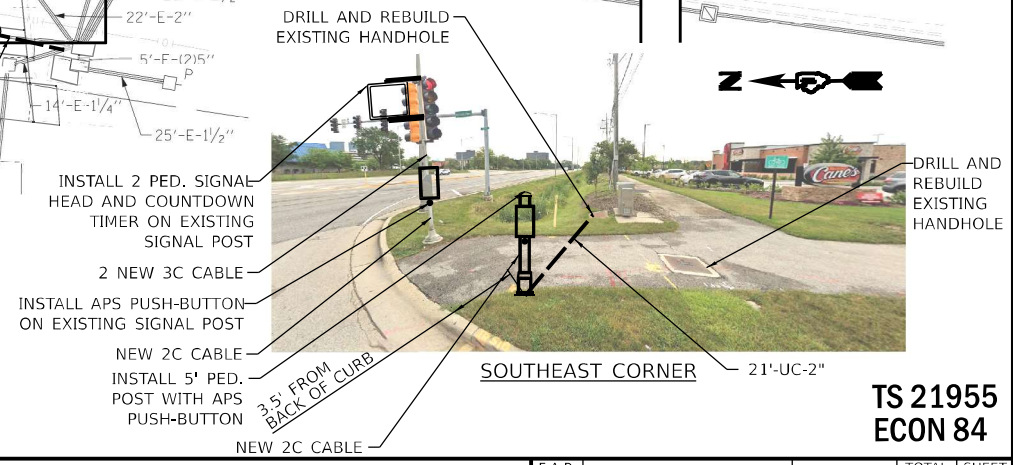
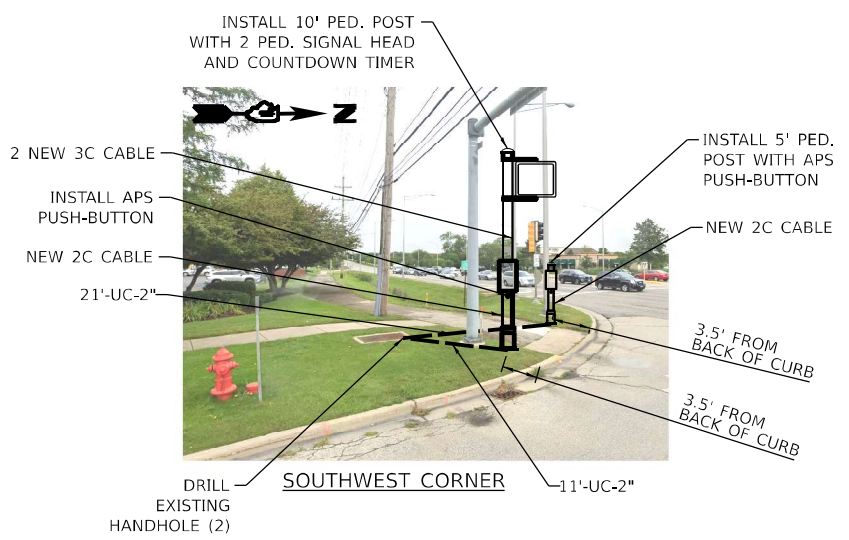
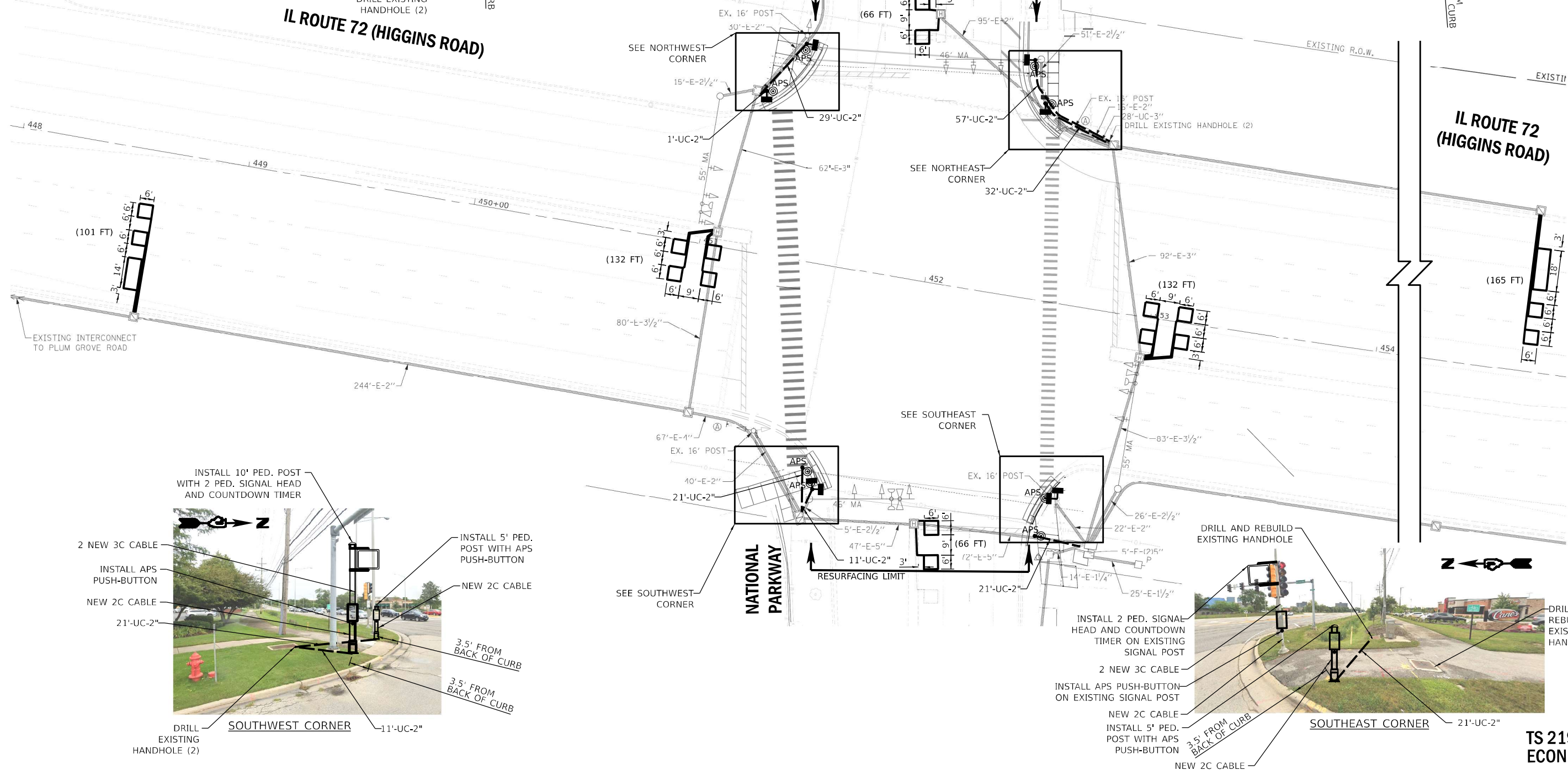
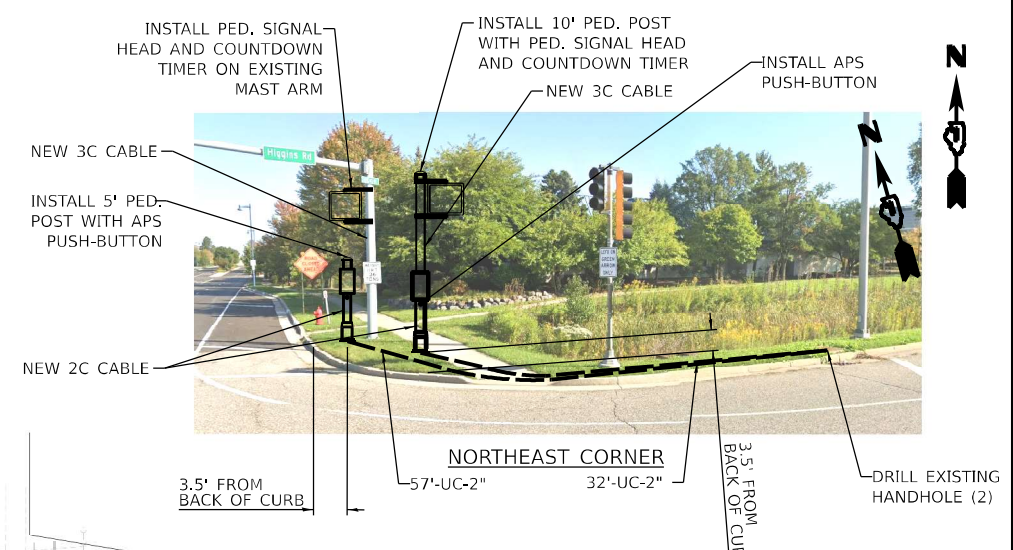
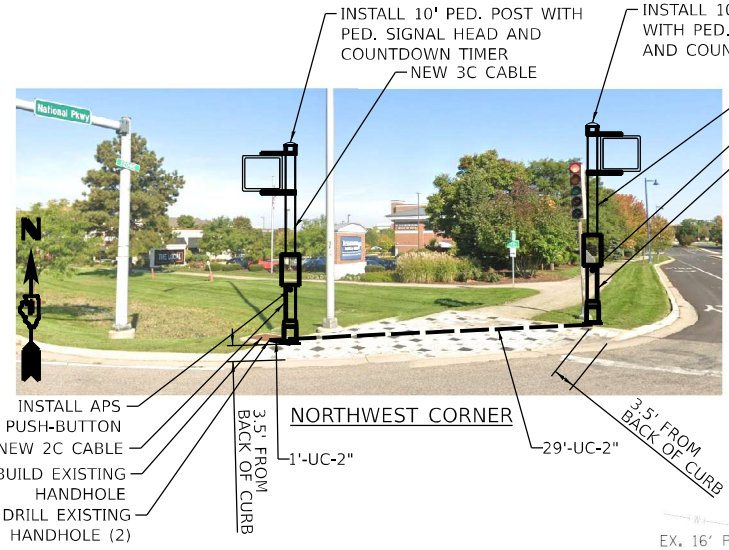
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	28

CONTRACT NO. 62V89  
ILLINOIS FED. AID PROJECT

**NOTES:**

1. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
2. CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.
3. APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. ALL PUSH BUTTONS SHALL BE APS.
5. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB.
6. SEE PROPOSED ADA RAMP IMPROVEMENT PLANS TO DETERMINE EXACT LOCATION FOR INSTALLATION OF PROPOSED PEDESTRIAN POST.
7. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
8. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



MODEL: 140816MAM16  
FILE: 140816MAM16.dwg

**DELTA ENGINEERING GROUP, LLC**  
CONSULTING ENGINEERS, ARCHITECTS, PLANNERS, AND SURVEYORS  
111 W JACKSON BLVD, SUITE 910  
CHICAGO, IL 60604  
T 312.277.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - MA	REVISED -
PLOT SCALE = \$SCALES	DRAWN - NS	REVISED -
PLOT DATE = \$DATES	CHECKED - MA	REVISED -
	DATE - 03/14/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

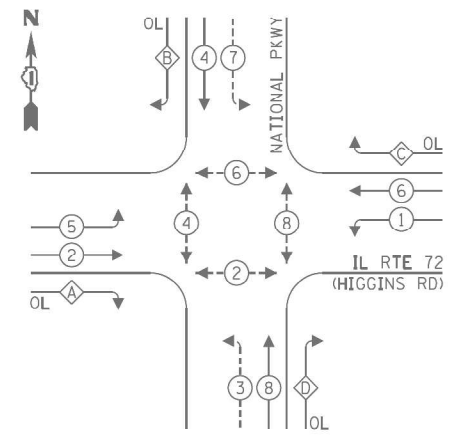
**APS INSTALLATION PLAN  
IL-72 & NATIONAL PKWY, SCHAUMBURG, IL**

SCALE: 1:50    SHEET 1 OF 2 SHEETS    STA. TO STA.

F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62V89	

**TS 21955  
ECON 84**

**EXISTING CONTROLLER SEQUENCE**



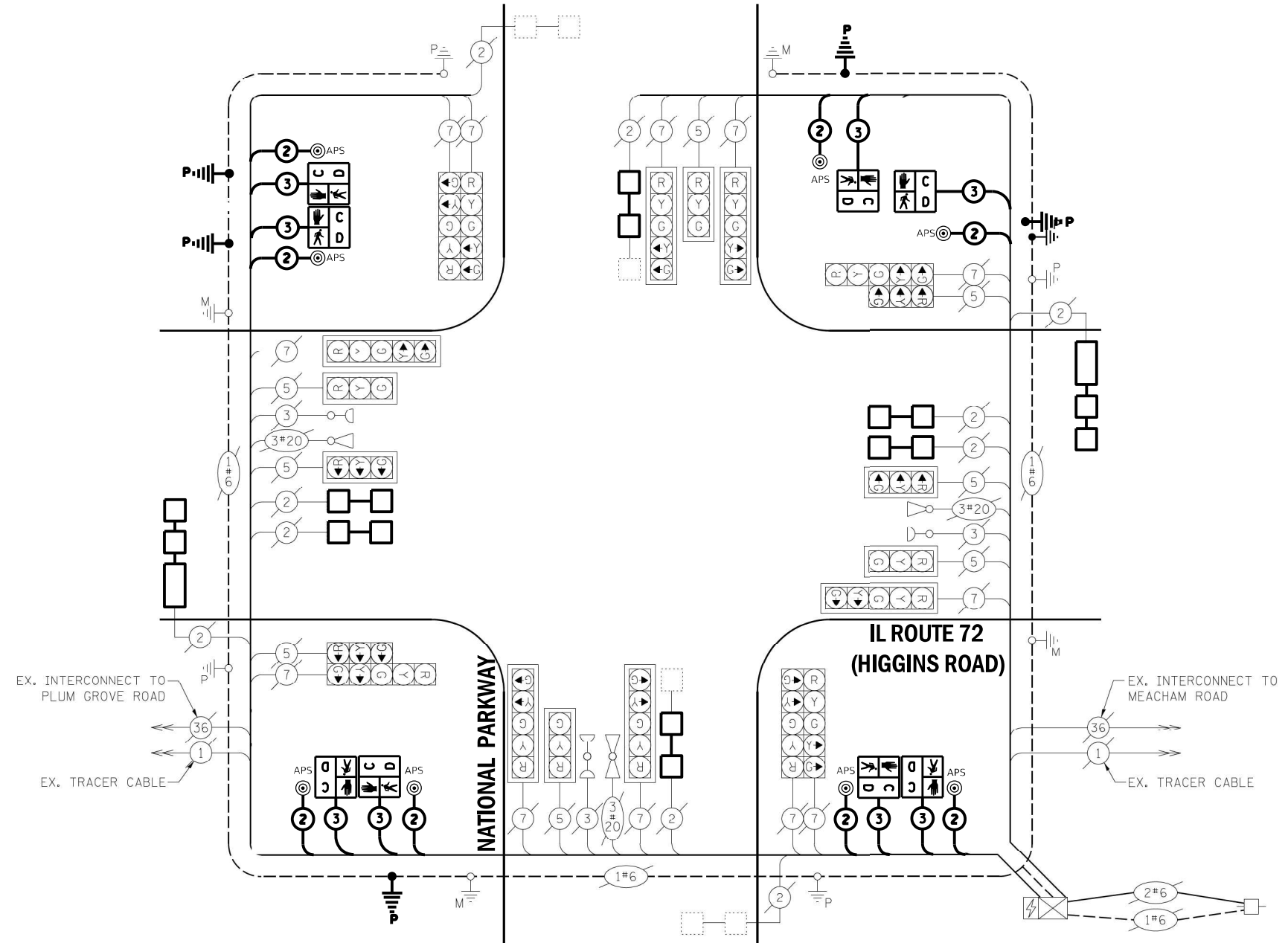
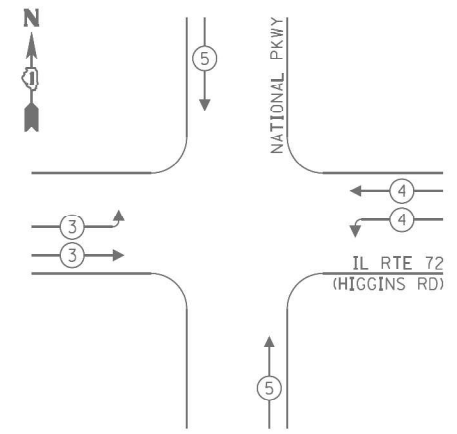
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	172
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1825
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1845
DRILL EXISTING HANDHOLE	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
DETECTOR LOOP, TYPE I	FOOT	662
REBUILD EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
PEDESTRIAN SIGNAL POST, 10 FT.	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**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	-	14	-
5-SECTION	12	13	156
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>		<b>539</b>	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING</b>		<b>1144</b>	

ENERGY COSTS TO:  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: PHONE: ---  
 COMPANY: ---  
 ACCOUNT NUMBER: ---  
 METER NUMBER: ---

MODEL NUMBER NAMES FILE NAMES REVISED



USER NAME = \$USERS  
 PLOT SCALE = \$SCALES  
 PLOT DATE = \$DATES

DESIGNED - MA  
 DRAWN - NS  
 CHECKED - MA  
 DATE - 03/14/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

APS CABLE PLAN  
 IL-72 & NATIONAL PKWY, SCHAMBURG, IL

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	FAP 0341 23 Smart2	COOK	44	30
			CONTRACT NO. 62V89	
			ILLINOIS FED. AID PROJECT	

**TS 21955  
 ECON 84**

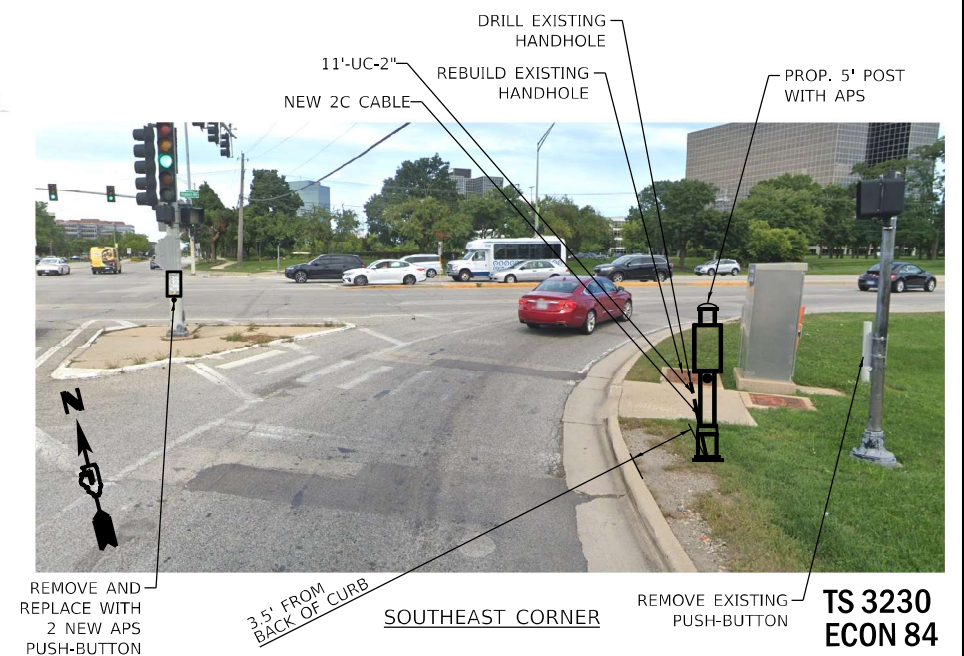
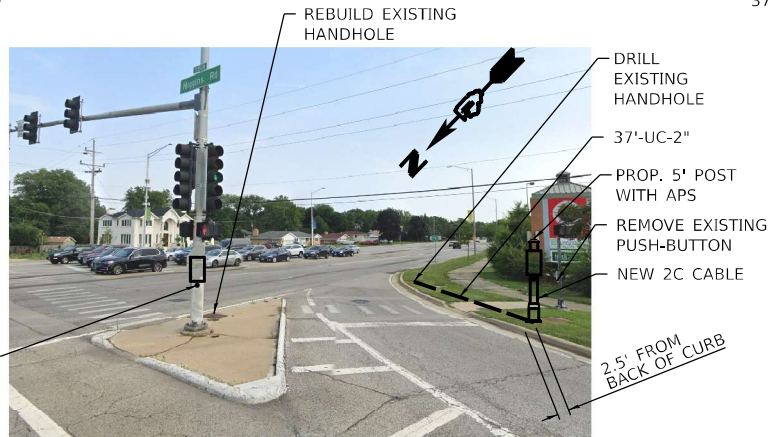
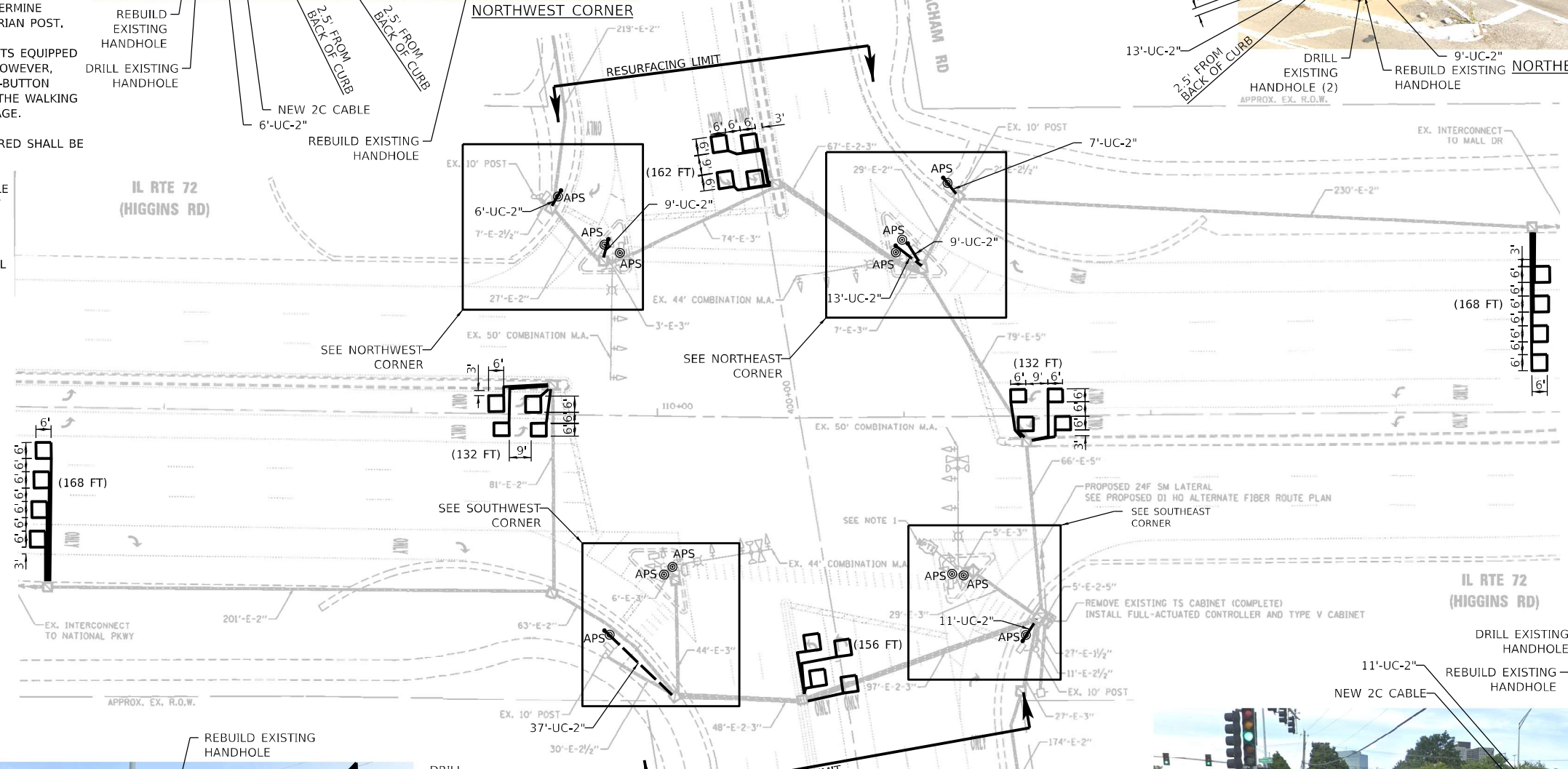
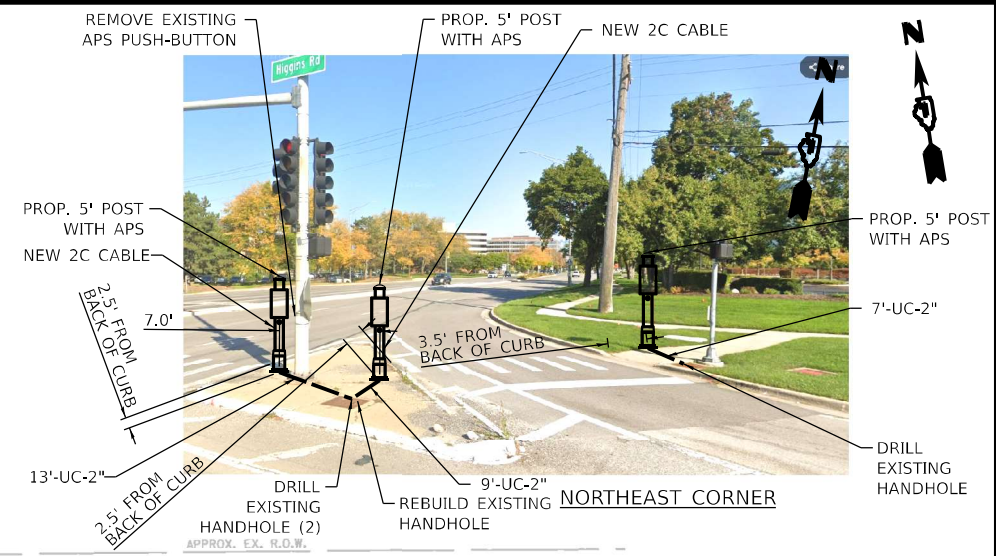
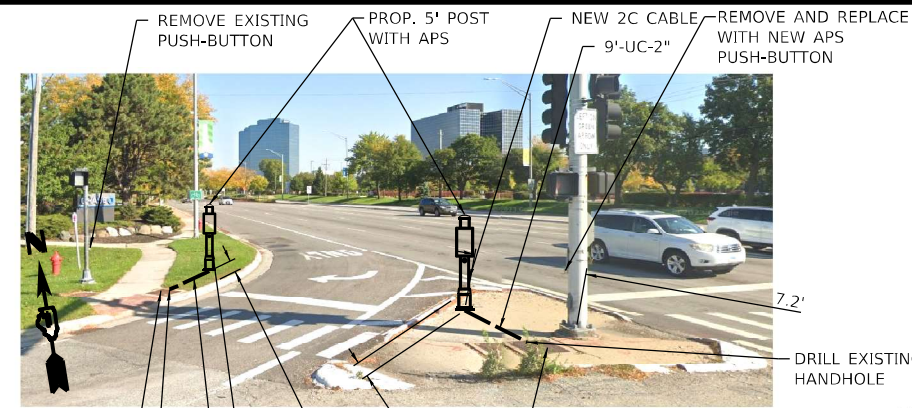
**NOTES:**

1. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
2. CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.
3. APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. ALL PUSH BUTTONS SHALL BE APS.
5. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB.
6. SEE PROPOSED ADA RAMP IMPROVEMENT PLANS TO DETERMINE EXACT LOCATION FOR INSTALLATION OF PROPOSED PEDESTRIAN POST.
7. DISTANCE BETWEEN ANY TWO PROPOSED ADJACENT POSTS EQUIPPED WITH APS PUSH-BUTTONS SHALL NOT BE LESS THAN 10'. HOWEVER, IF POSTS ARE PLACED CLOSED TOGETHER, EACH APS PUSH-BUTTON SHALL BE PROVIDED WITH A SPEECH WALK MESSAGE FOR THE WALKING PERSON AND A SPEECH PUSH-BUTTON INFORMATION MESSAGE.
8. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
9. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
10. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).

**REMOVAL AND RELOCATION NOTES**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 8 EACH PEDESTRIAN PUSH-BUTTON



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**APS INSTALLATION PLAN  
IL-72 & MEACHAM RD., SCHAUMBURG, IL**

**DELTA ENGINEERING GROUP, LLC**  
CONSULTING ENGINEERS, ARCHITECTS, PLANNERS, AND SURVEYORS  
111 W JACKSON BLVD, SUITE 910  
CHICAGO, IL 60604  
T 312.377.7700, F 312.427.6145

USER NAME = \$USERS	DESIGNED - MA	REVISED -
PLOT SCALE = \$SCALES	DRAWN - NS	REVISED -
PLOT DATE = \$DATES	CHECKED - MA	REVISED -
	DATE - 03/14/2025	REVISED -

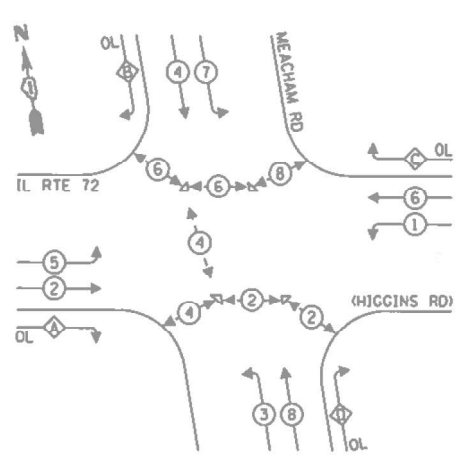
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SCALE: 1:50 SHEET 1 OF 2 SHEETS STA. TO STA.				

CONTRACT NO. 62V89		ILLINOIS FED. AID PROJECT
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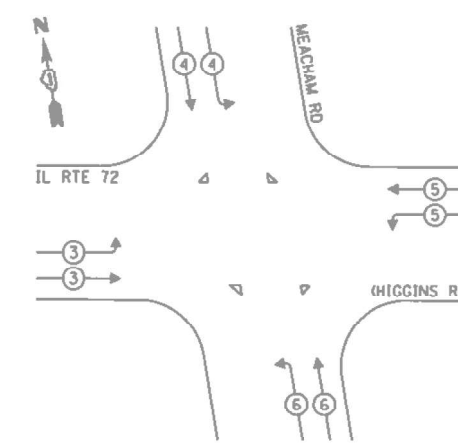
**TS 3230  
ECON 84**

MODEL NUMBER NAMES  
FILE NAMES SHEETS

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



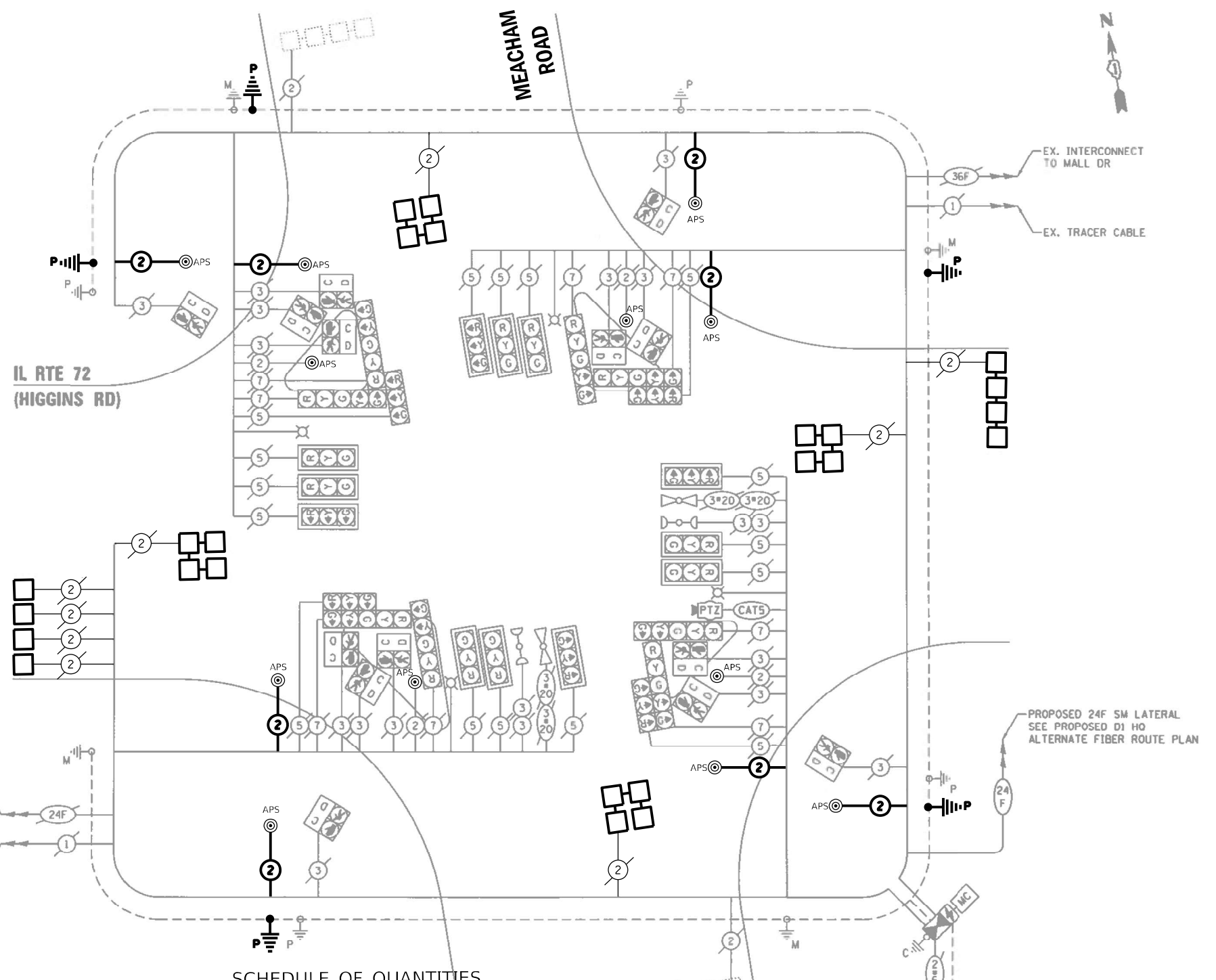
**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**  
 ←\*→ PROTECTED PHASE  
 ←-\*- PEDESTRIAN PHASE  
 ←\*→ OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	92
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2330
DRILL EXISTING HANDHOLE	EACH	7
DETECTOR LOOP, TYPE I	FOOT	918
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	7
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	14	15	210
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	-	20	-
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
<b>TOTAL UPS SIZING</b>	<b>665</b>		
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING</b>	<b>1270</b>		

ENERGY COSTS TO:  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: PHONE: ---  
 COMPANY: ---  
 ACCOUNT NUMBER: ---  
 METER NUMBER: ---

DELTA ENGINEERING GROUP, LLC  
 111 W JACKSON BLVD, SUITE 910  
 CHICAGO, IL 60604  
 T 312.377.7700, F 312.427.6145

DESIGNED - MA	REVISED -
DRAWN - NS	REVISED -
CHECKED - MA	REVISED -
DATE - 03/14/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

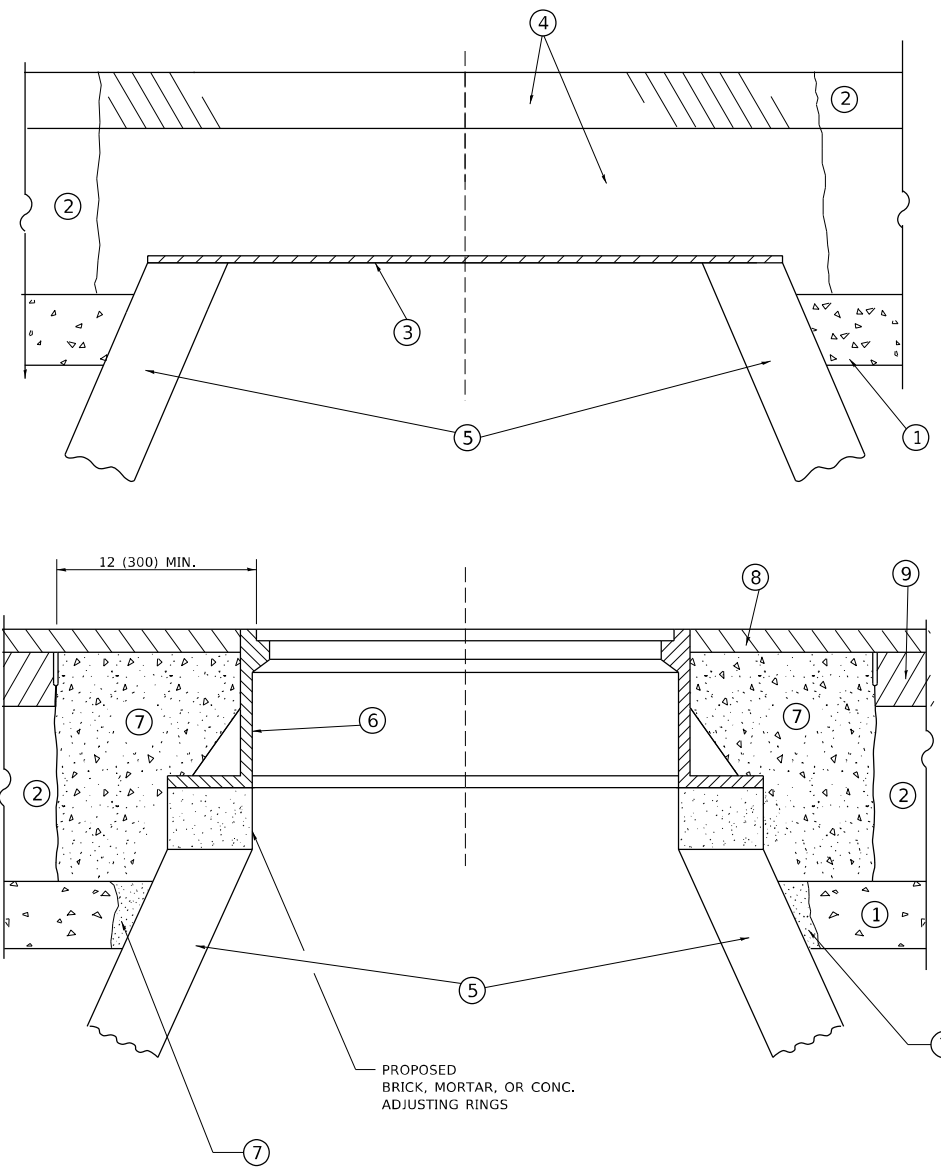
**APS CABLE PLAN  
 IL-72 & MEACHAM RD, SCHAUMBURG, IL**

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 0341	SECTION FAP 0341 23 Smart2	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 32
CONTRACT NO. 62V89			ILLINOIS FED. AID PROJECT	

**TS 3230  
 ECON 84**





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

**NOTES**

- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- 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)**

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- 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**

- REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 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

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PLOT DATE = 1/27/2025	CHECKED -	REVISED - K. SMITH 11-18-22
	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.

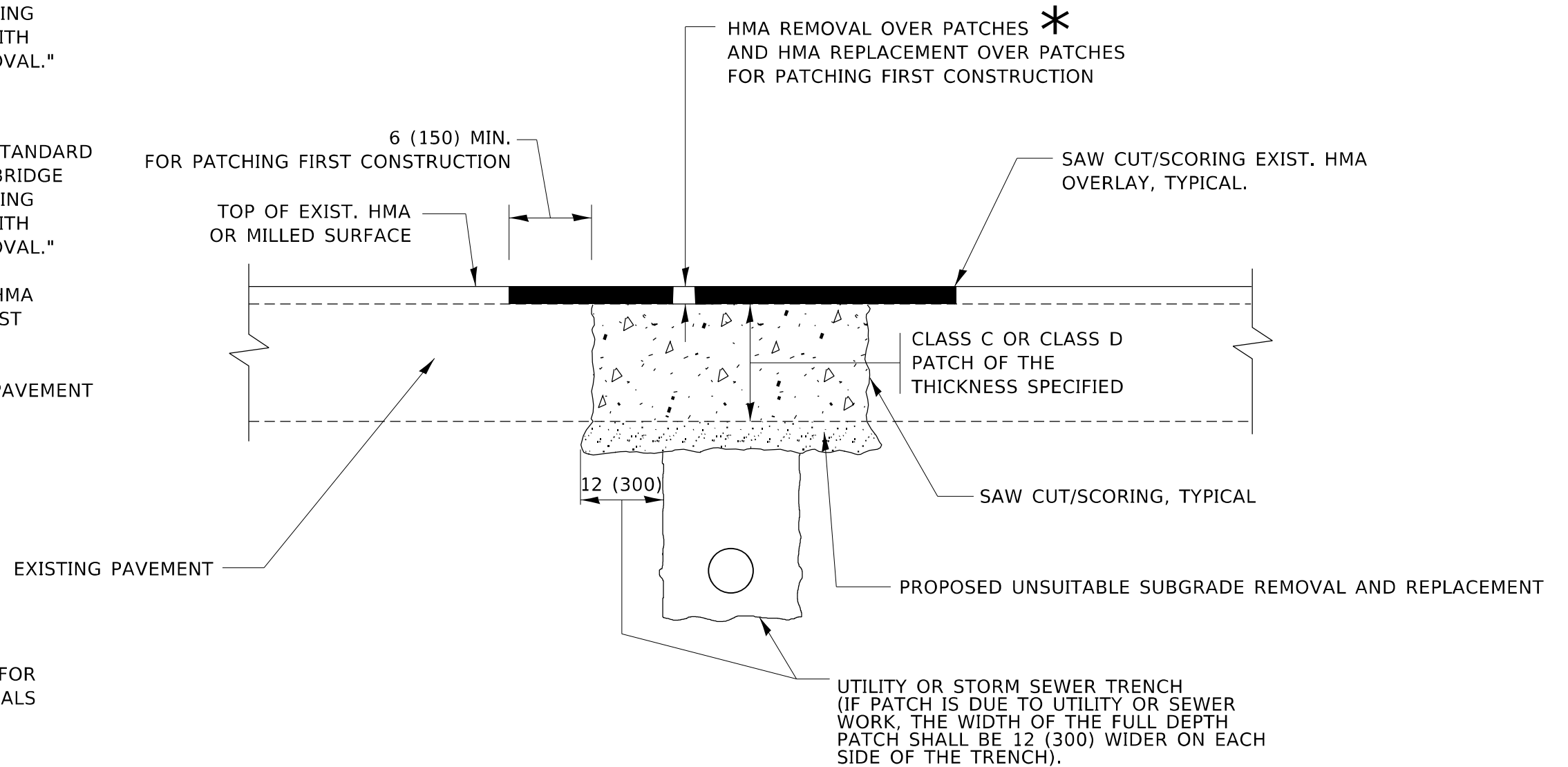
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	33
BD600-03 (BD-08)			CONTRACT NO. 62V89	
ILLINOIS		FED. AID PROJECT		

**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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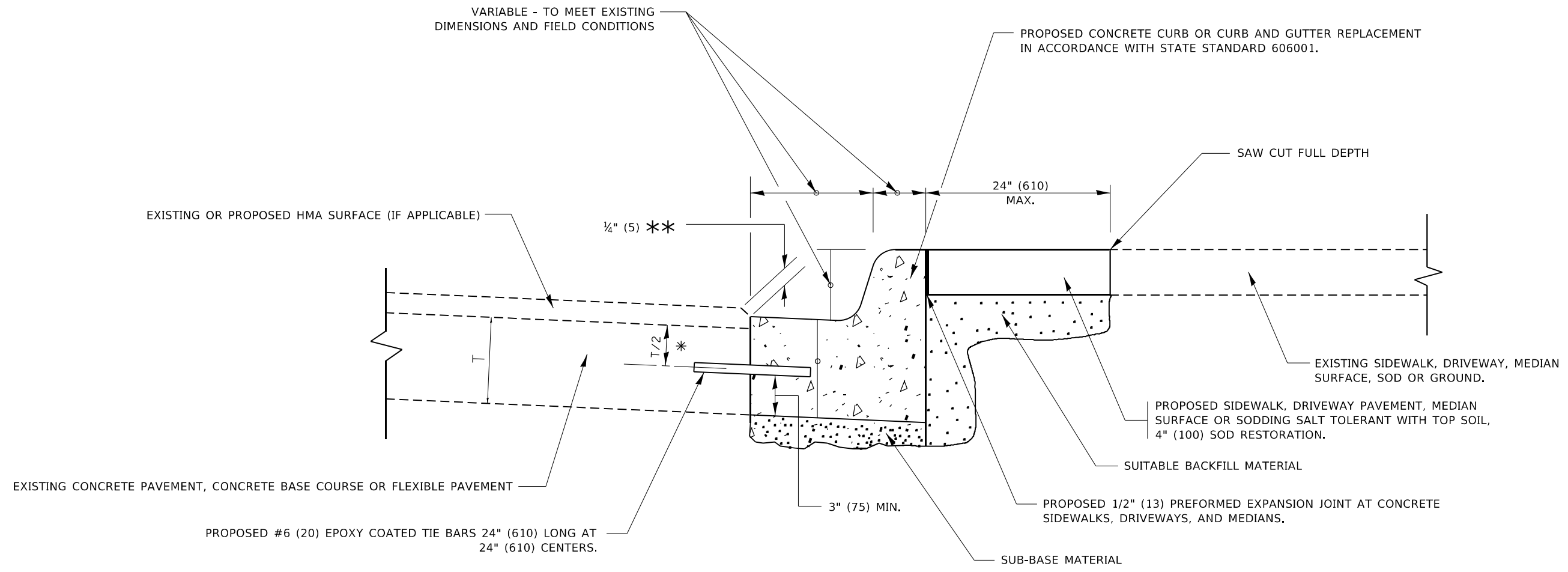
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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 1/27/2025	DATE - 10-25-94	REVISED - K. ENG 10-27-08
		REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	34
BD400-04 (BD-22)			CONTRACT NO. 62V89	
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.

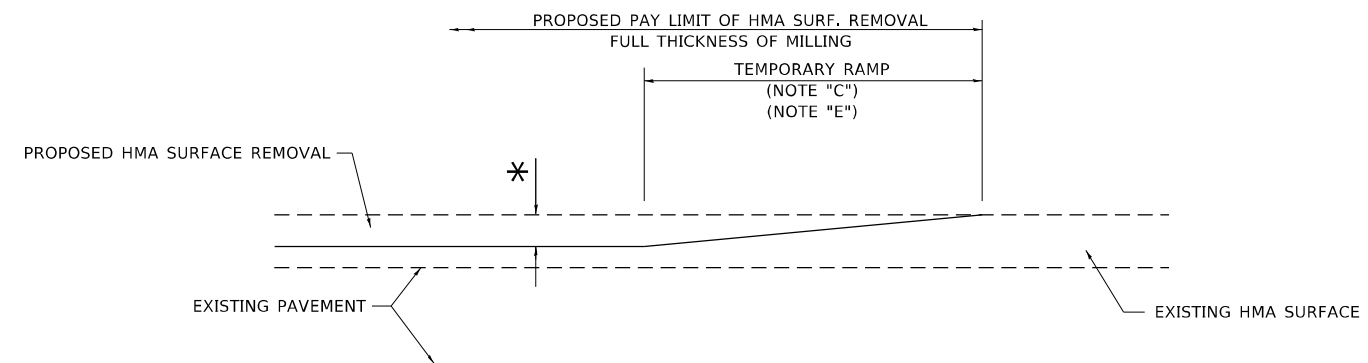
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 1/27/2025	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

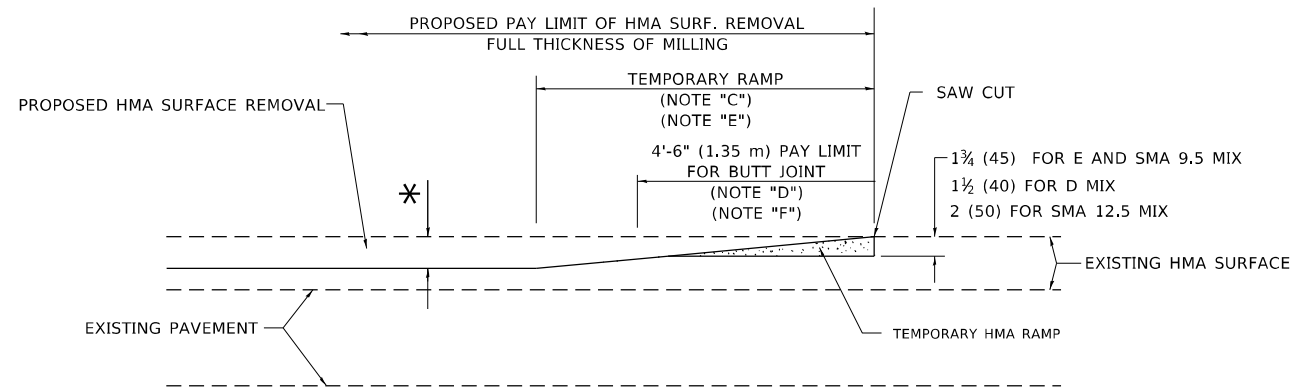
<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	35
<b>BD600-06 (BD-24)</b>		CONTRACT NO. <b>62V89</b>		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

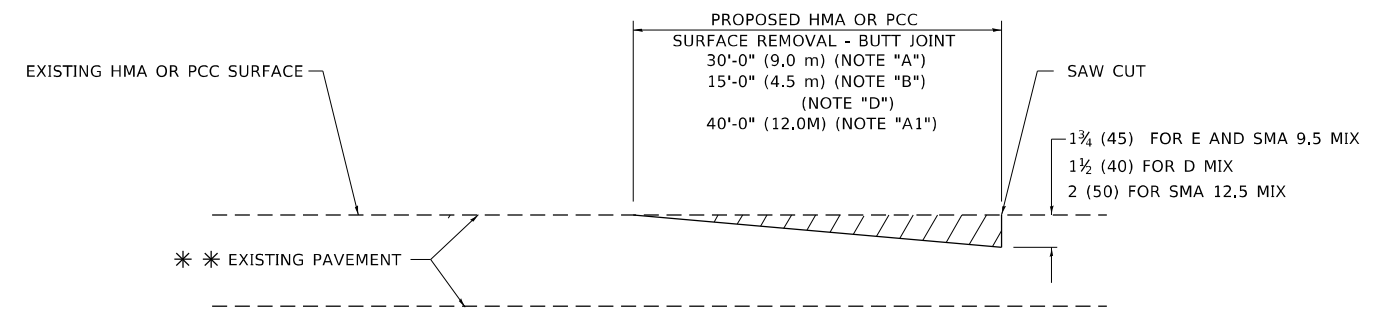
**OPTION 1**



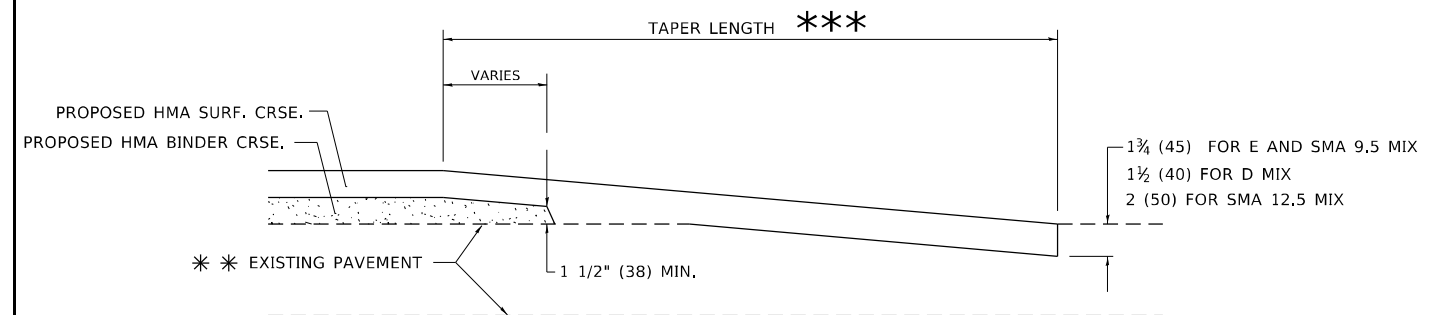
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**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.

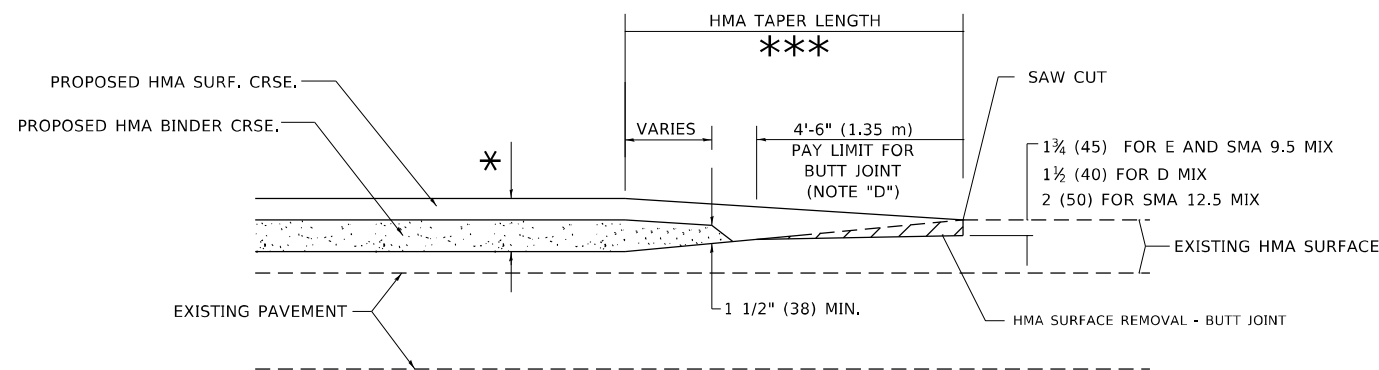
**GENERAL NOTES**

- 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**

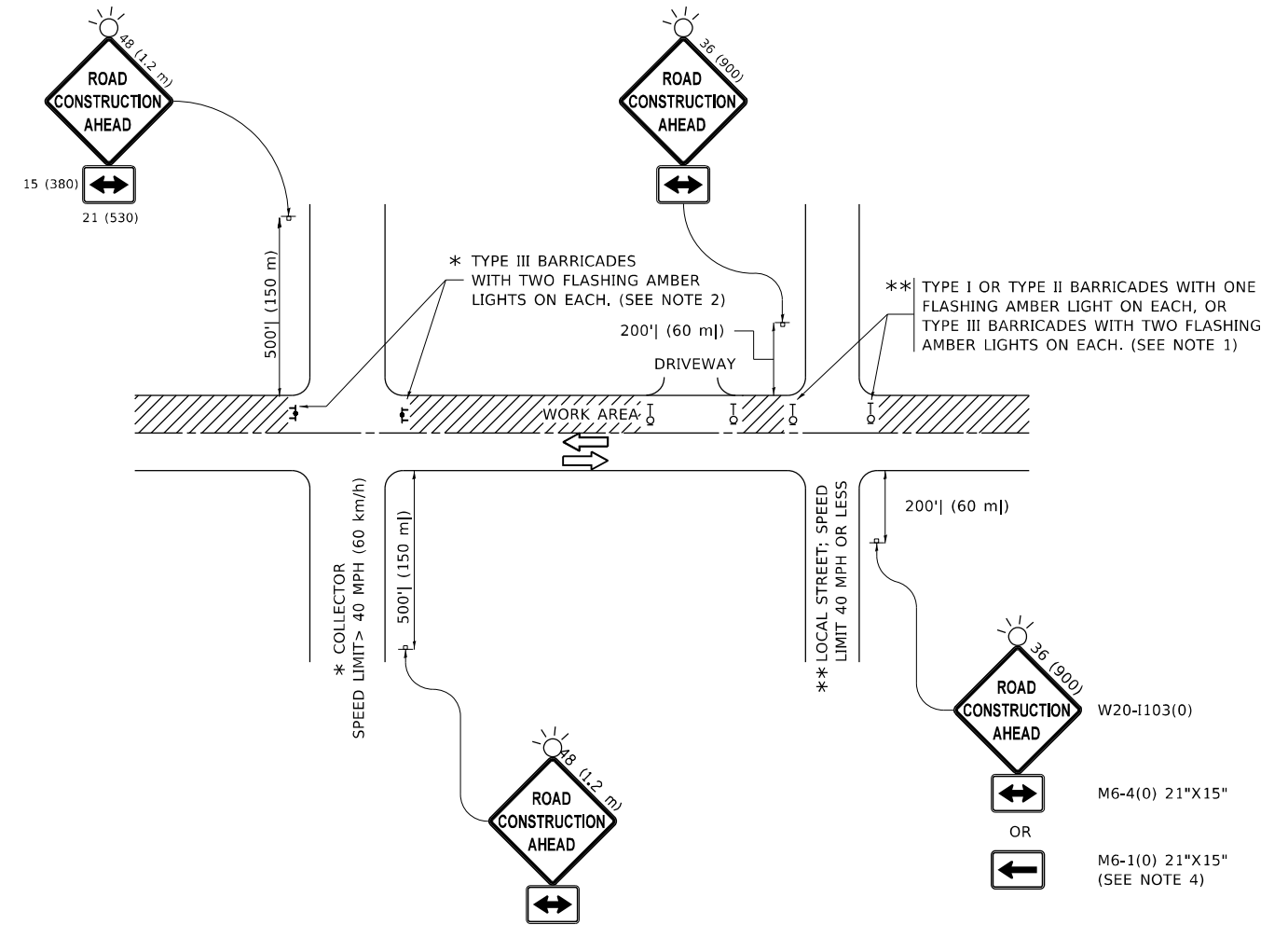
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 1/27/2025	DATE - 06-13-90	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	36
<b>BD400-05 BD-32</b>		CONTRACT NO. 62V89		
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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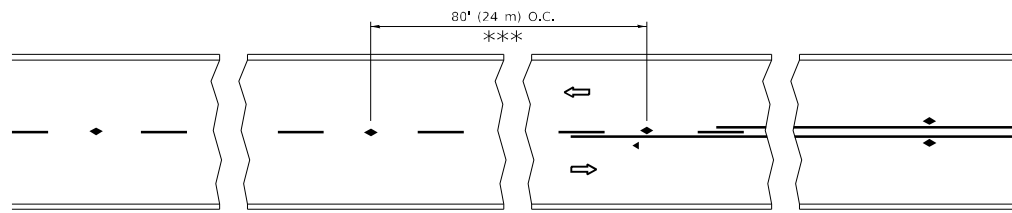
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PLOT DATE = 1/27/2025	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16
		REVISED - D. SENDRAK 05-03-24

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

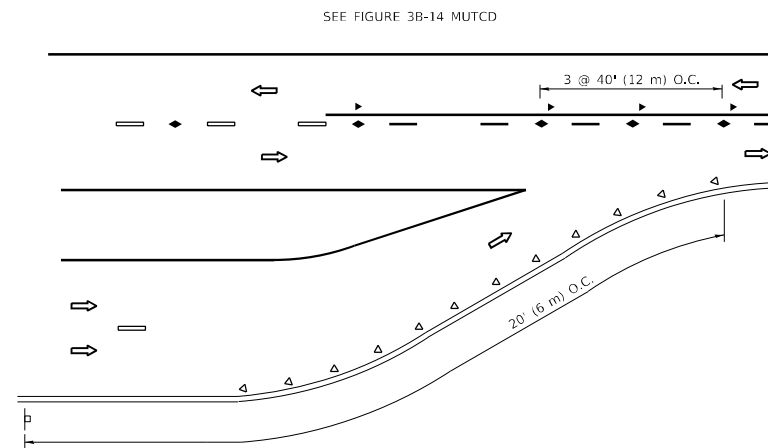
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<b>TC-10</b>			<b>CONTRACT NO. 62V89</b>	
ILLINOIS FED. AID PROJECT				

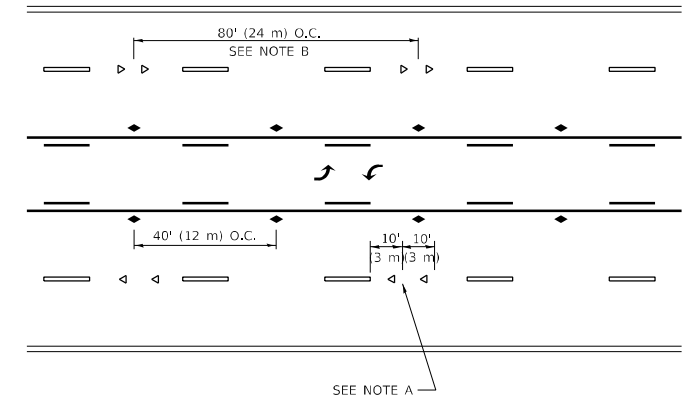


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

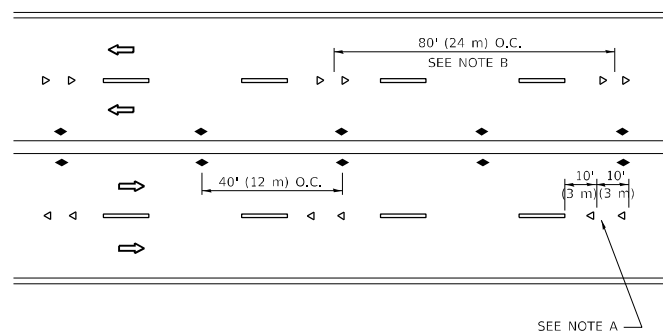
**TWO-LANE/TWO-WAY**



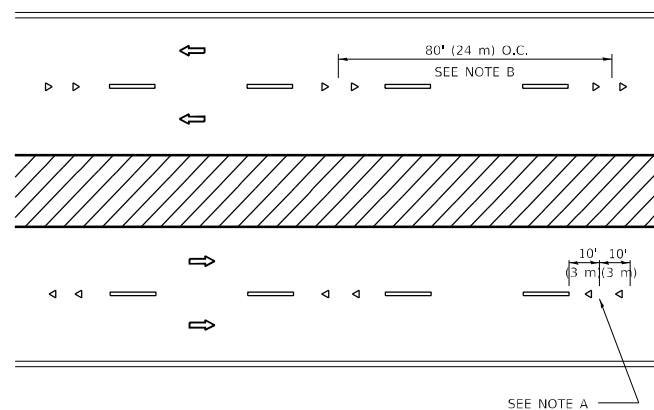
**LANE REDUCTION TRANSITION**



**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**

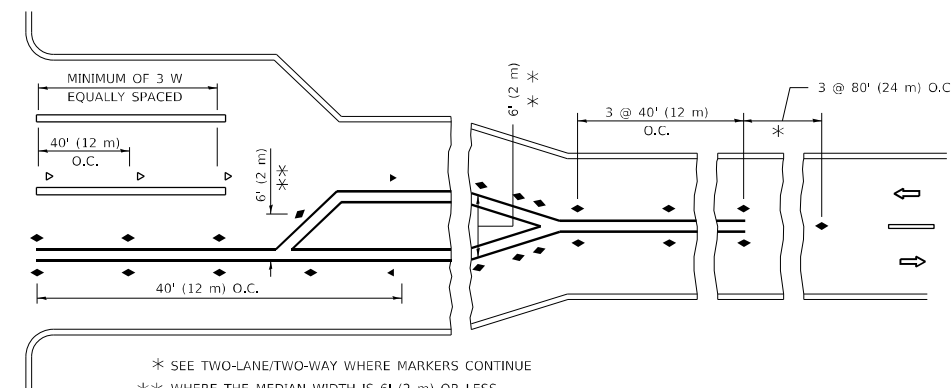
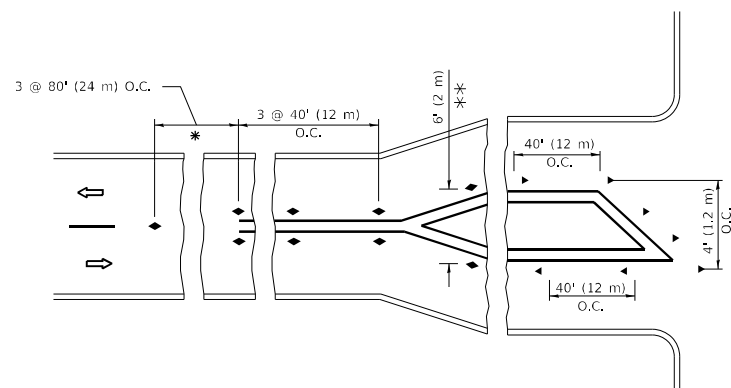
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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.

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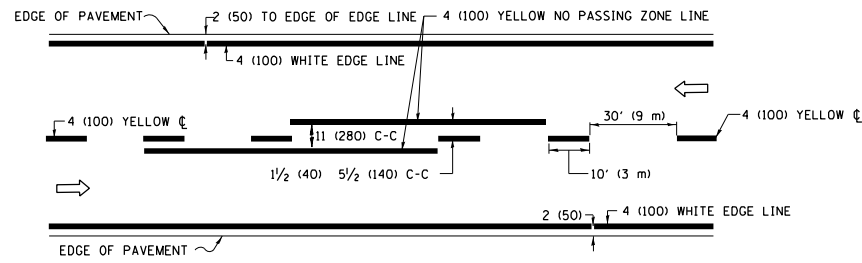
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PLOT DATE = 1/27/2025	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

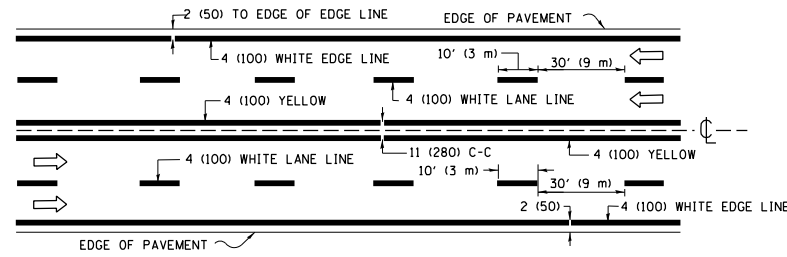
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

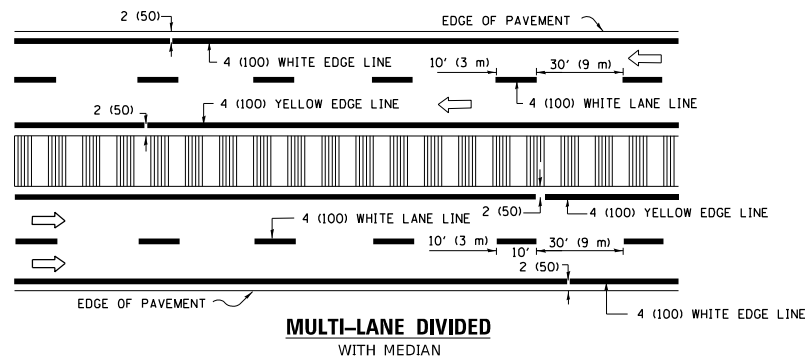
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	38
TC-11			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

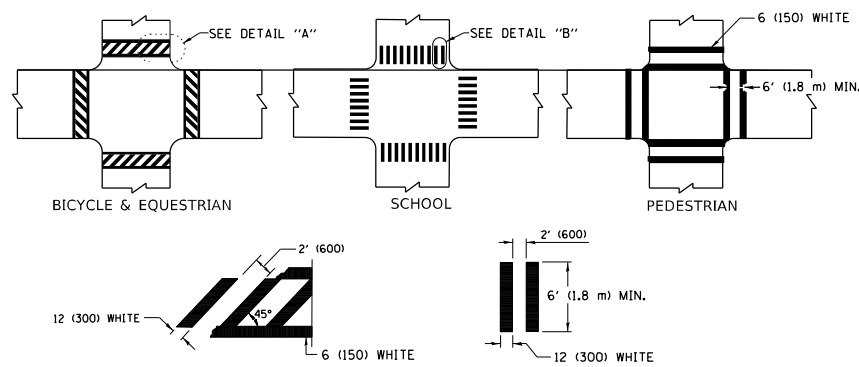


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

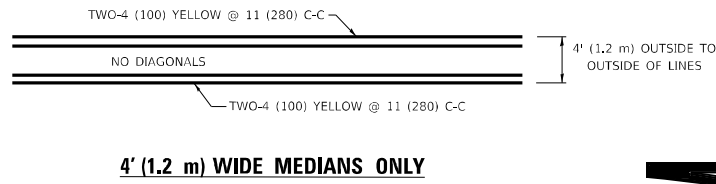


**DETAIL "A"**

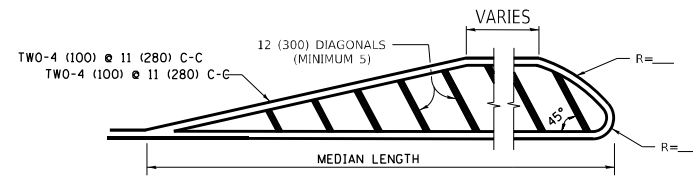
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

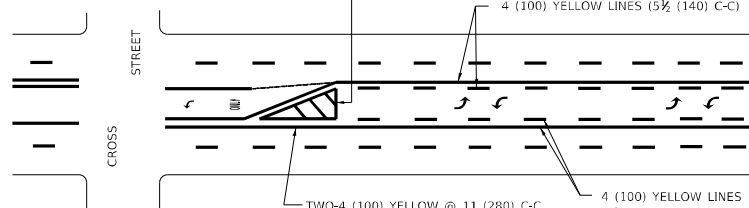


**4' (1.2 m) WIDE MEDIANS ONLY**



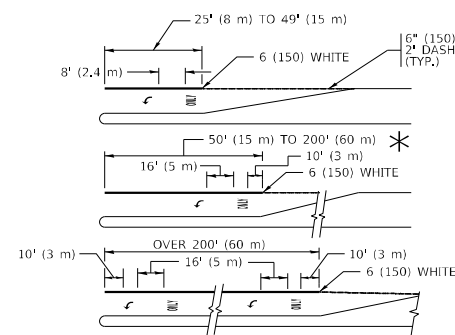
**MEDIANS OVER 4' (1.2 m) WIDE**

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**

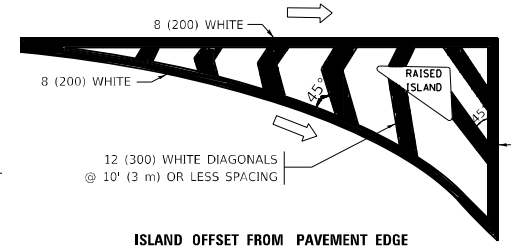
**TYPICAL PAINTED MEDIAN MARKING**



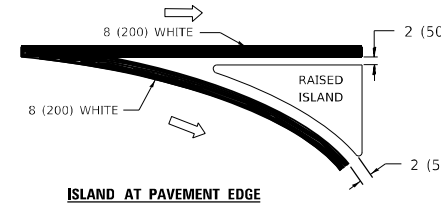
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

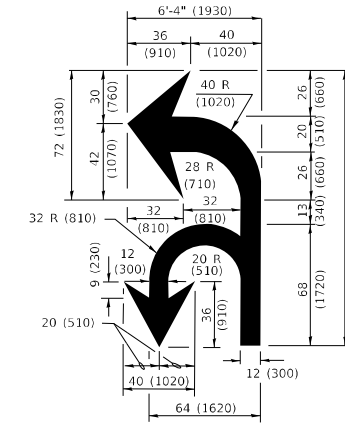


**ISLAND OFFSET FROM PAVEMENT EDGE**

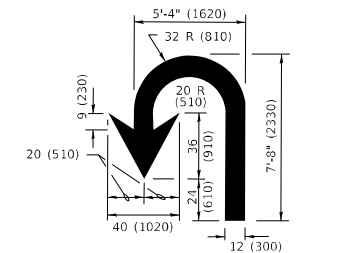


**ISLAND AT PAVEMENT EDGE**

**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 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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 SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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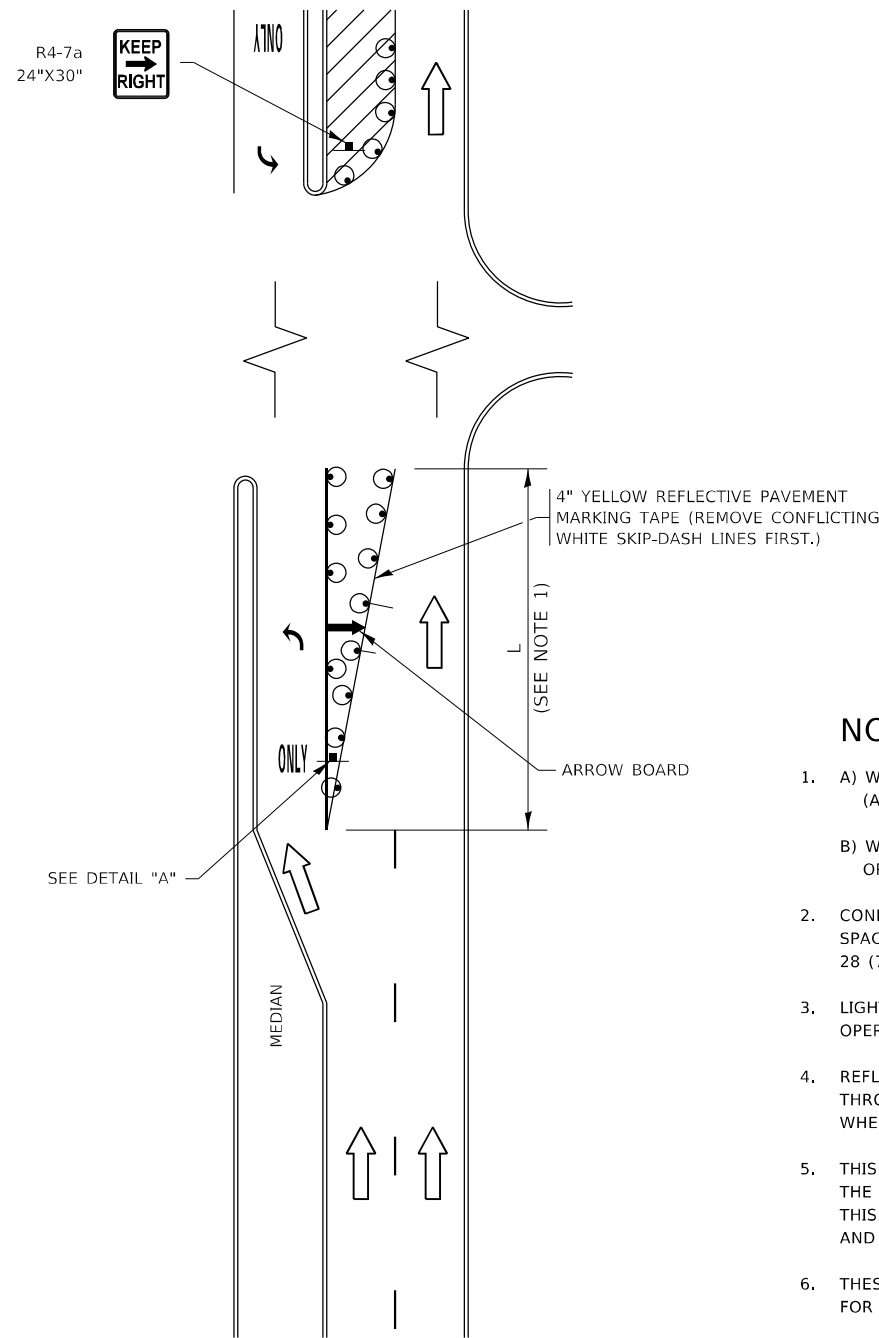
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

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

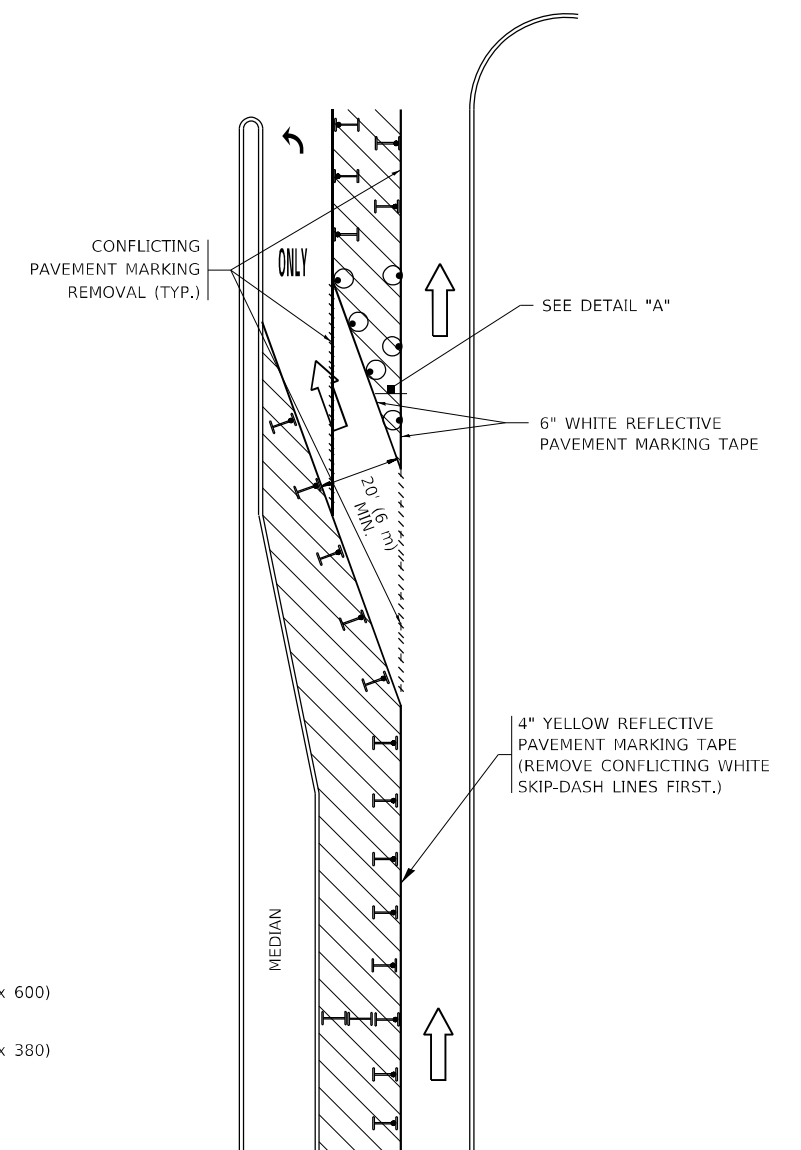
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	39
<b>TC-13</b>		CONTRACT NO. <b>62V89</b>		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



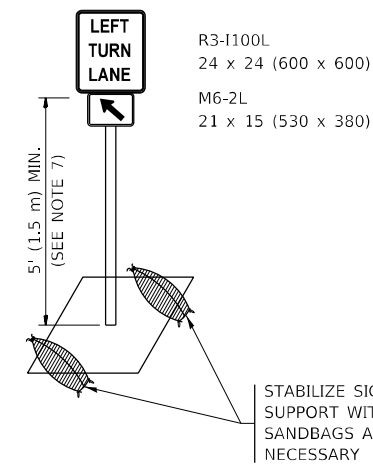
**FIGURE 2**

### LEGEND

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

### NOTES:

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

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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 1/27/2025	DATE - T. RAMMACHER 01-06-00	REVISED -

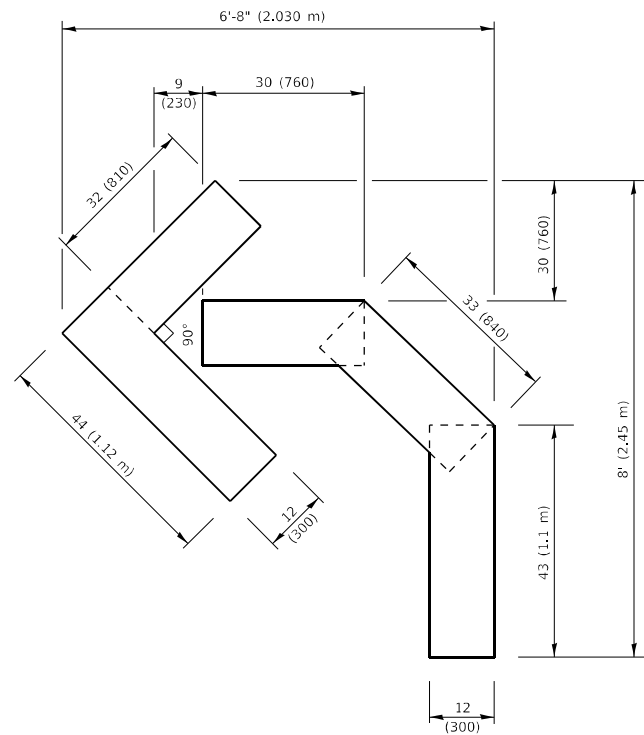
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

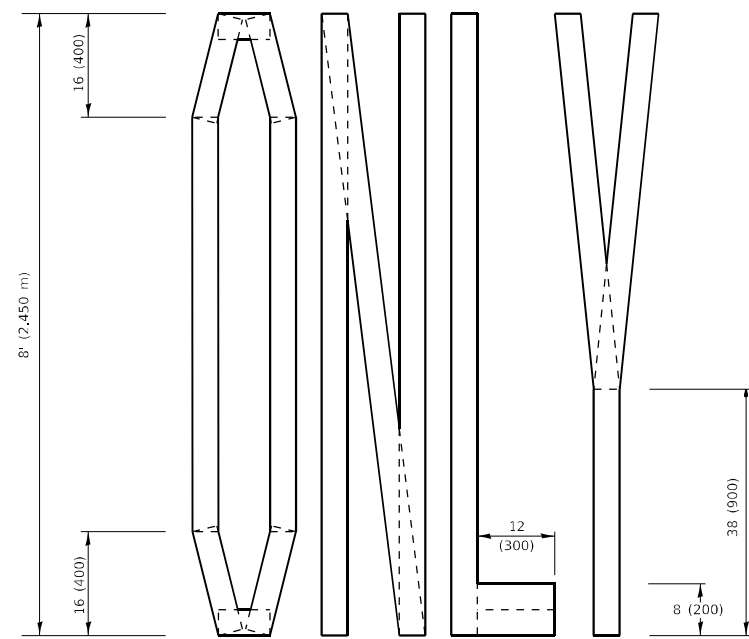
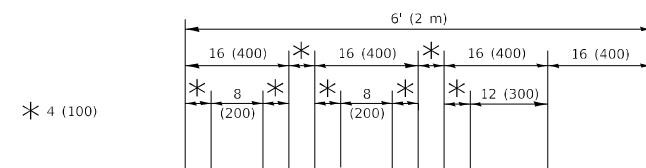
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TC-14			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				





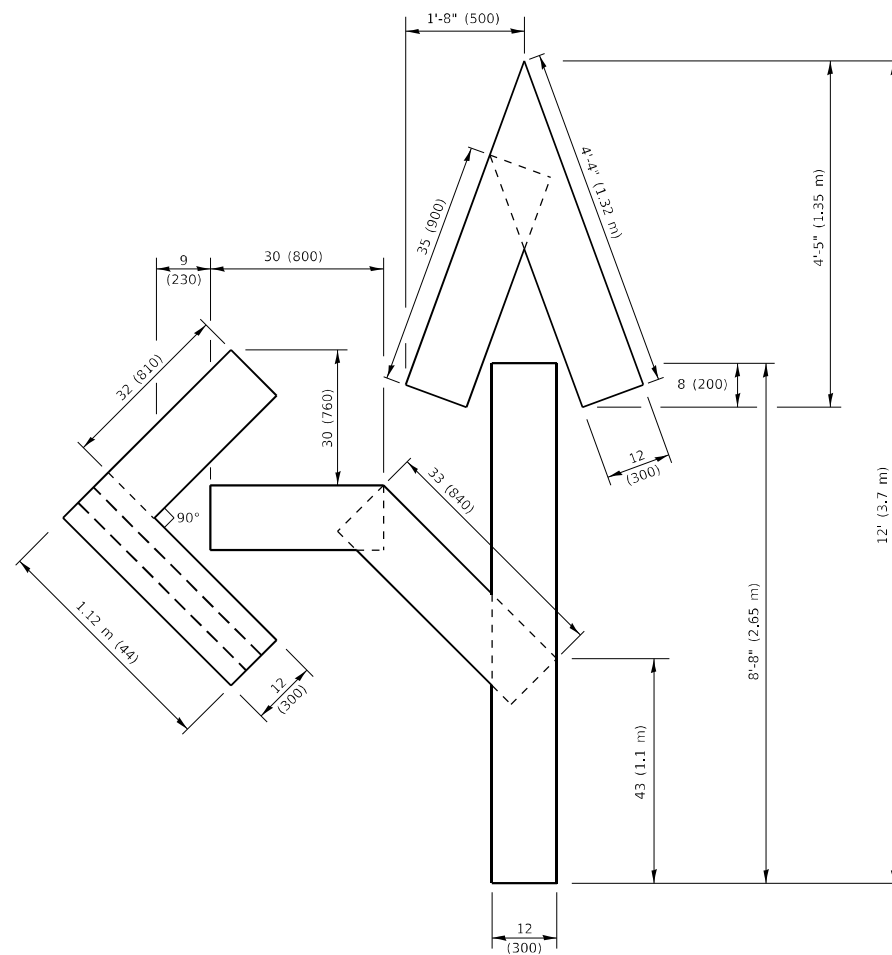
**QUANTITY**

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



**QUANTITY**

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

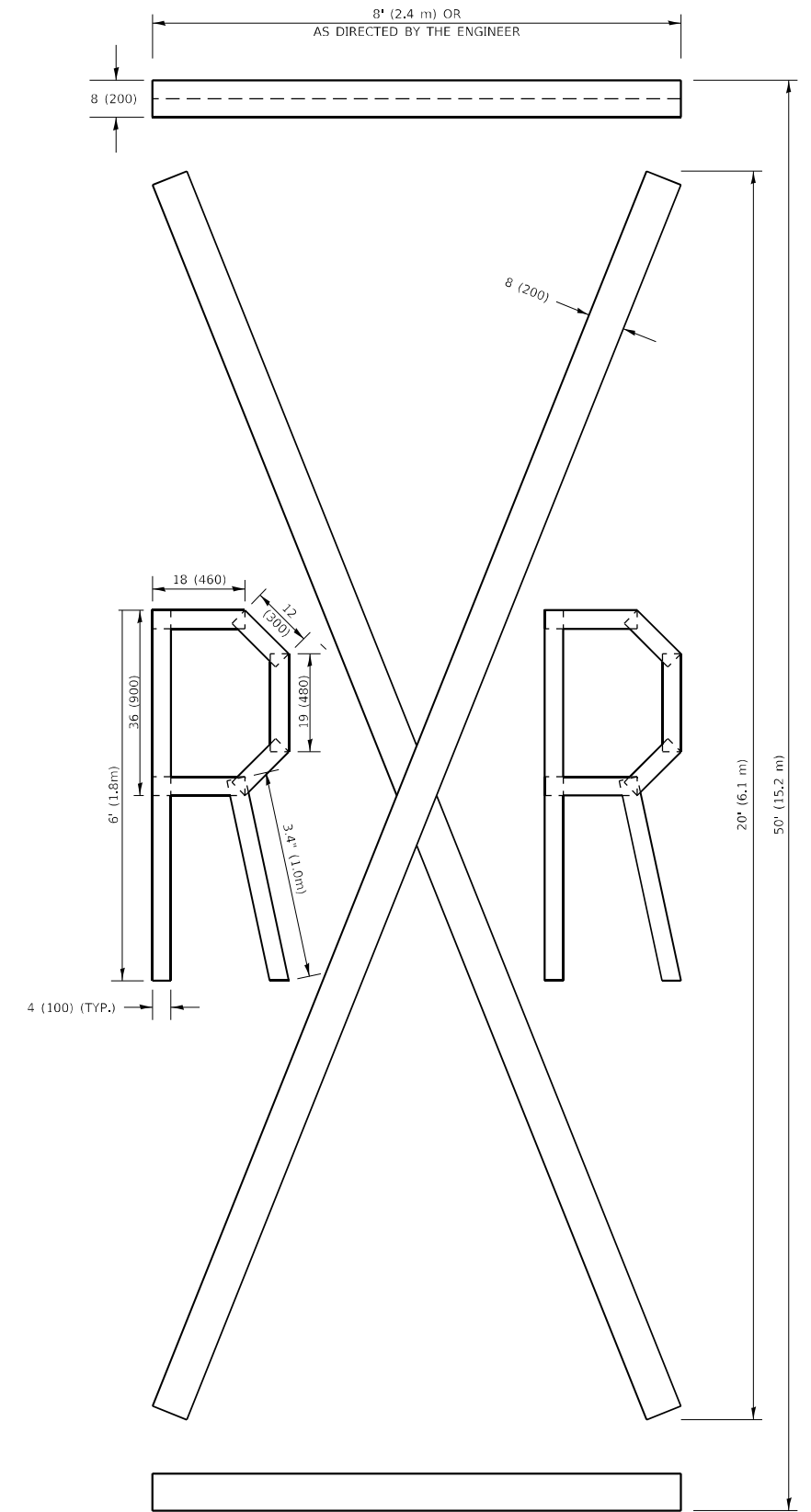


**QUANTITY**

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

**NOTE:**

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



**QUANTITY**

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

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

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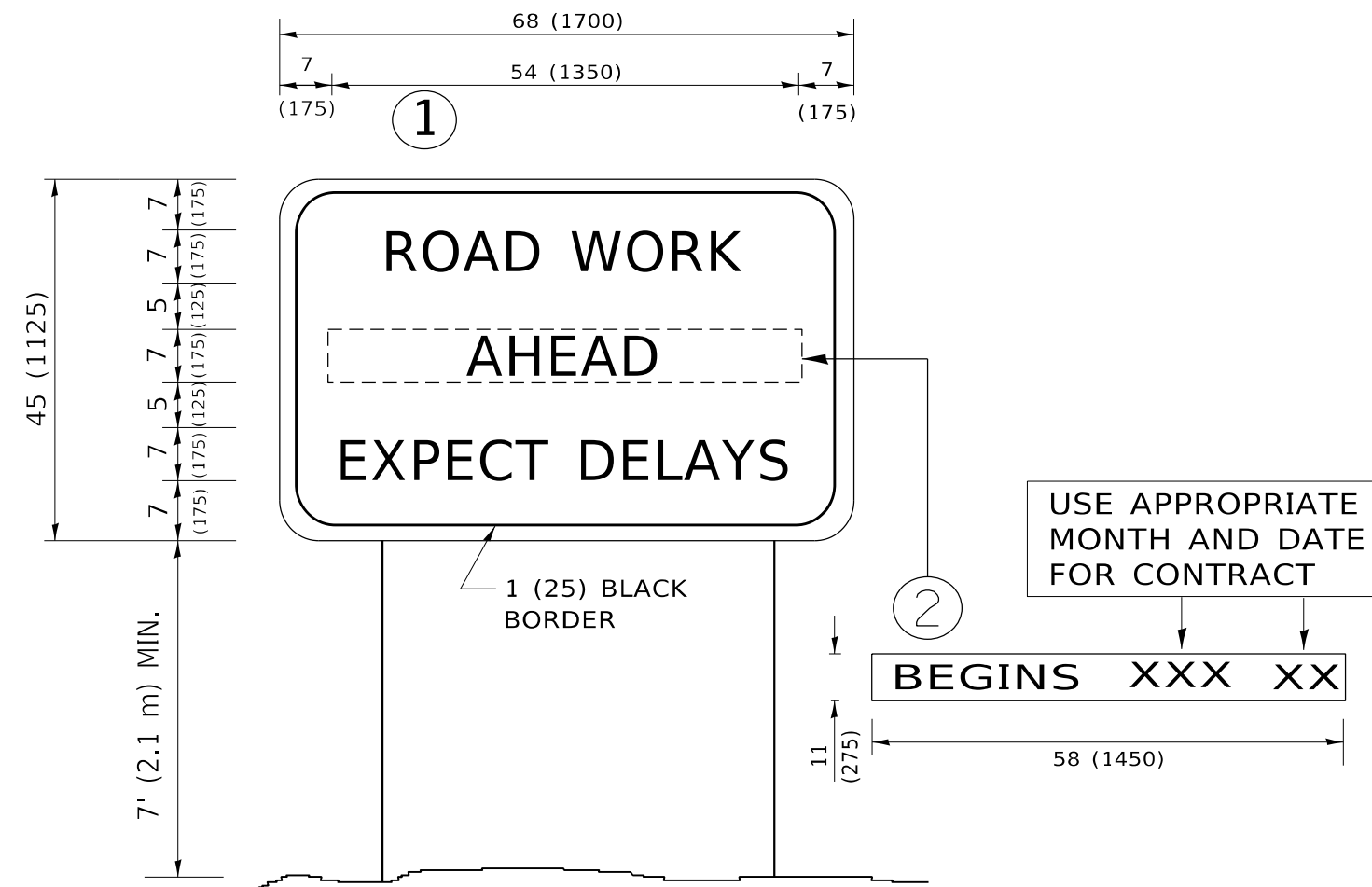
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PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 1/27/2025	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	41
<b>TC-16</b>			CONTRACT NO. 62V89	
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.

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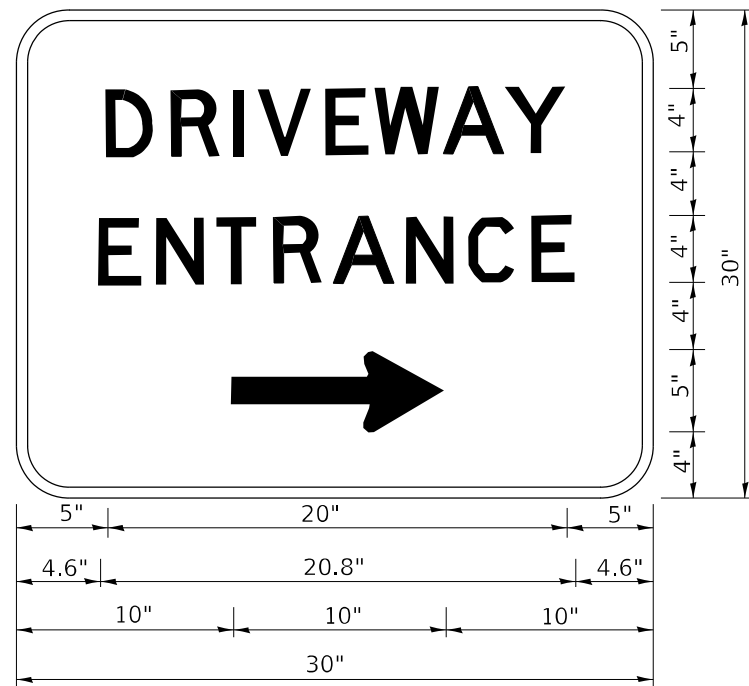
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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/27/2025	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	42
TC-22			CONTRACT NO. 62V89	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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USER NAME = yaseen.ureshi	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/27/2025	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

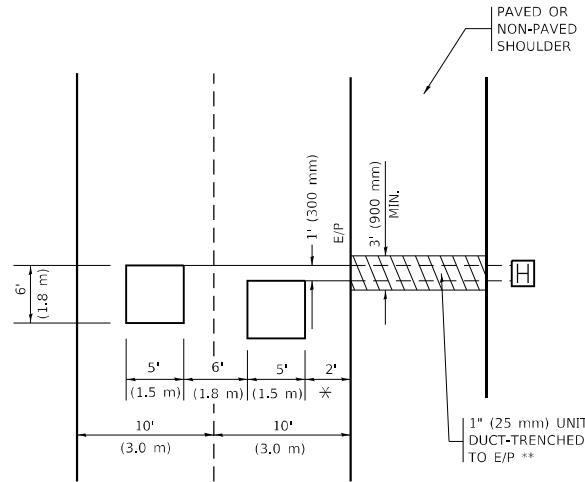
**DRIVEWAY ENTRANCE SIGNING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	43
<b>TC-26</b>			CONTRACT NO. <b>62V89</b>	
ILLINOIS FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

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

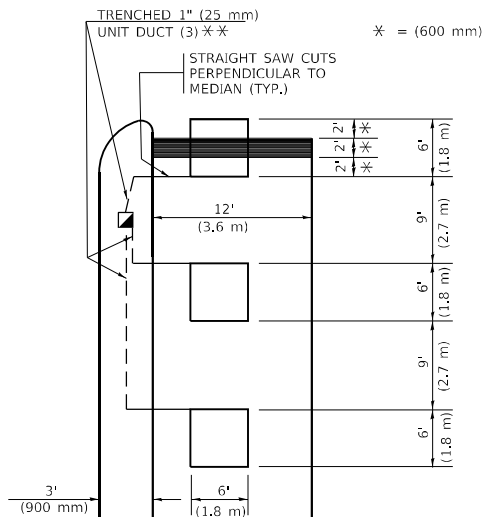


\* = (600 mm)

\*\* 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.

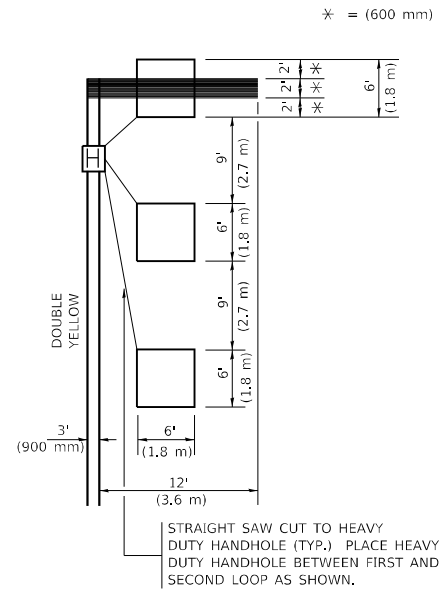


\* = (600 mm)

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

**PLACEMENT OF DETECTORS**

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

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

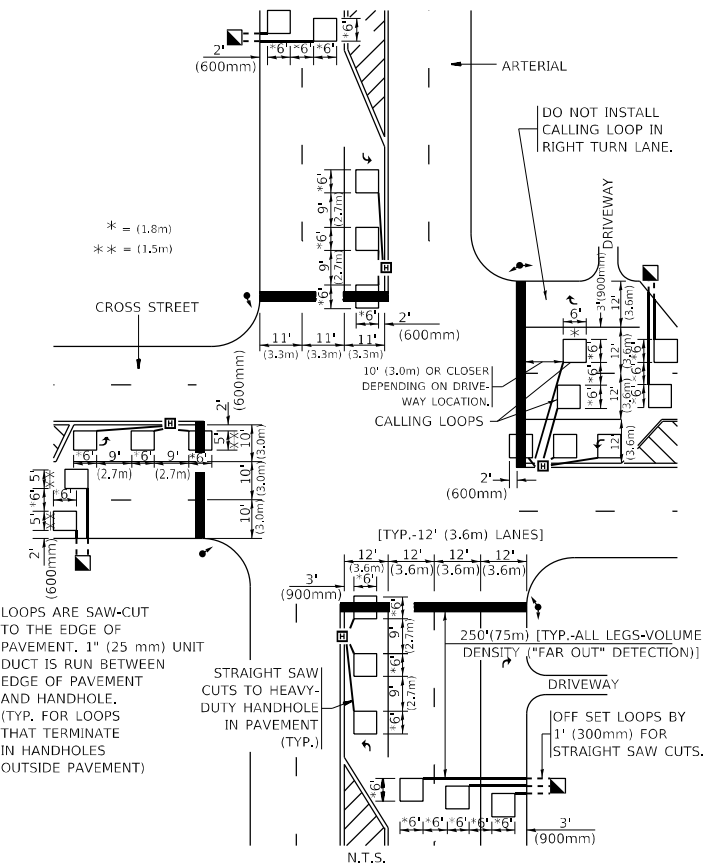
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

**NOTE:**

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

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

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



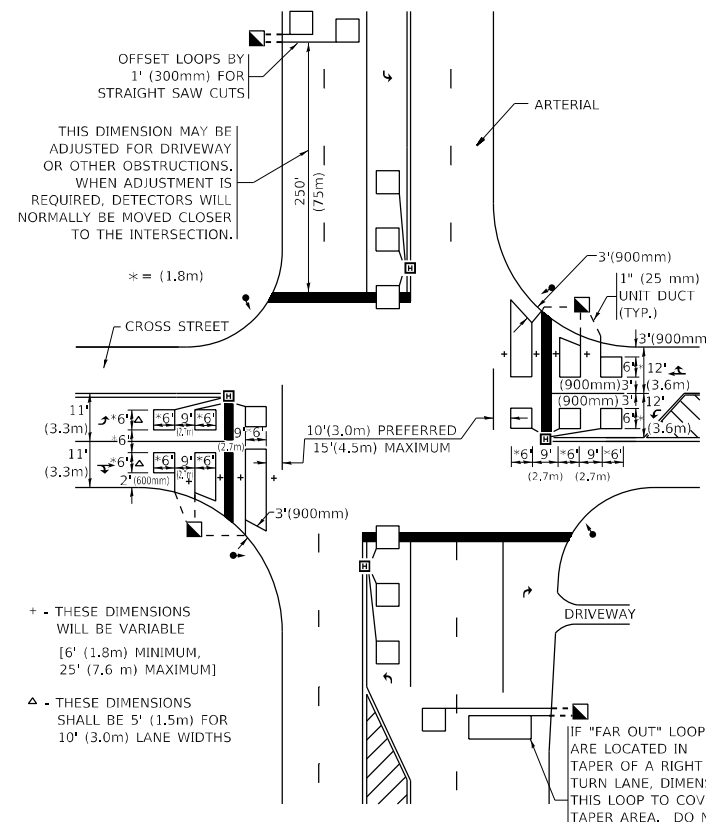
\* = (1.8m)  
\*\* = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

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

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



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

\* = (1.8m)

+ - 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

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

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

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PROJECT: 11222

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PLOT SCALE = 100,0000 ' / in.	CHECKED - R.K.F.	REVISION -
PLOT DATE = 1/27/2025	DATE -	REVISION -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	FAP 0341 23 SMART2	COOK	44	44
TS-07		CONTRACT NO. 62V89		

ILLINOIS FED. AID PROJECT