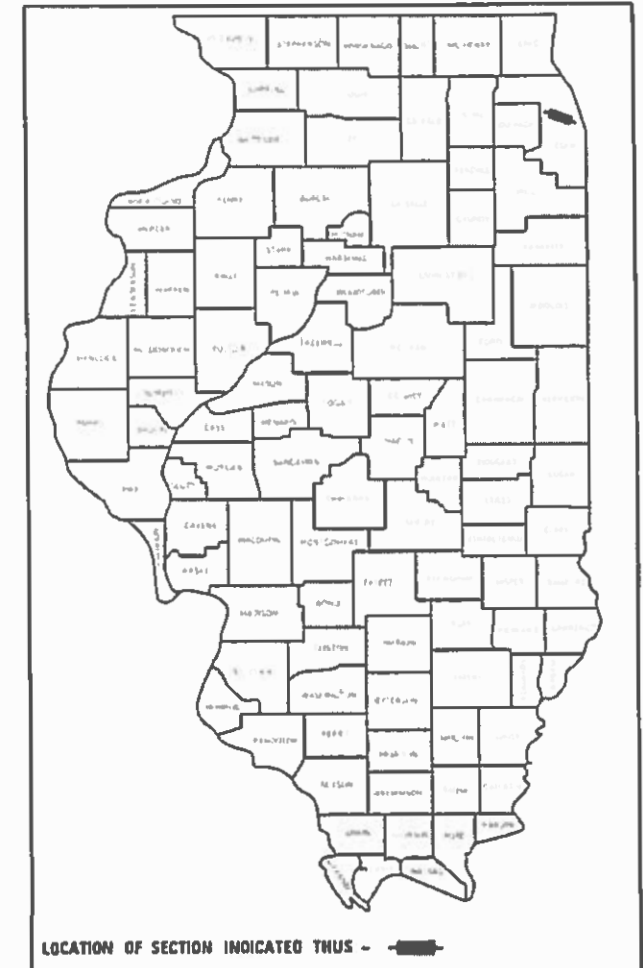


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	*72	1
CONTRACT NO. 62H44				

\*72 + 17 = 89 TOTAL SHEETS

D-91-049-19



LOCATION OF SECTION INDICATED THUS - [Symbol]

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE CITIES OF ROLLING MEADOWS AND DES PLAINES AND THE VILLAGES OF MOUNT PROSPECT AND ARLINGTON HEIGHTS

F.A.U. ROUTE 3514: IL 62 (ALGONQUIN ROAD)  
E. OF IL 58 (GOLF RD.) TO E. OF IL 83 (ELMHURST RD.).  
SECTION: 2018-103-RS&SW  
PROJECT: STP-AYEG(405)  
RESURFACING (3P), PEDESTRIAN  
RAMPS COOK COUNTY

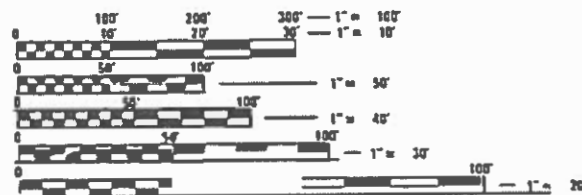
C-91-248-19

TRAFFIC DATA:  
2017 ADT = 29,600  
POSTED SPEED LIMIT = 35-45 MPH

PROJECT BEGINS  
STA. 16 + 74



PROJECT ENDS  
STA. 182 + 91



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

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

PROJECT ENGINEER KARI SMITH (847) 705-4437  
PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62H44

GROSS AND NET LENGTH = 16,617 FT. = 3.15 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED January 22, 2019  
*Anthony J. Dwyer* REGIONAL ENGINEER  
March 22, 2019  
*Paul J. [Signature]* ENGINEER OF DESIGN AND ENVIRONMENT  
March 22, 2019  
*Paul J. [Signature]* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS





SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% VILLAGE				
20200100	EARTH EXCAVATION	CU YD	100	100					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	2701	2647	54				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	4					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	4					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	4					
25200110	SODDING, SALT TOLERANT	SO YD	2701	2647	54				
25200200	SUPPLEMENTAL WATERING	UNIT	3.2	3.2					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	4	4					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	12	12					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	87693	86951	742				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	391	387	4				
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	5360	5314	46				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	668	648	20				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% VILLAGE				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	618	612	6				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2	2					
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	12732	12624	108				
42001300	PROTECTIVE COAT	SO YD	2239	2227	12				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	4	4					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	12	12					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	10732	10732					
42400800	DETECTABLE WARNINGS	SO FT	1069	1069					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	129915	128816	1099				
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	31	31					
44000600	SIDEWALK REMOVAL	SO FT	12125	12125					
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SO YD	4404	4367	37				

FILE NAME =	USER NAME = parajnao	DESIGNED -	REVISED -
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	PLOT DATE = 2/11/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	3
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H44	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

\*= SPECIALTY ITEM

REV. 4/01/19 REV. 3/12/19

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% VILLAGE				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	2449	2437	12				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	1148	1136	12				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	227	215	12				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3					
60404950	FRAMES AND GRATES, TYPE 24	EACH	8	8					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	11	11					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	8	8					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1					
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	23	23					
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% VILLAGE				
67100100	MOBILIZATION	L SUM	1	1					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	122878	121503	1375				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	40960	40501	459				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	2705	2632	73				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	55844	55364	480				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	12857	12757	100				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1325	1325					

FILE NAME =	USER NAME = parajmol	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.)) SUMMARY OF QUANTITIES</b>	F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 100,0000' / 1in	CHECKED -	REVISED -			CONTRACT NO. 62H44					
	PLOT DATE = 2/11/2019	DATE -	REVISED -			FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT					

\* = SPECIALTY ITEM

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% VILLAGE					CODE NO	ITEM		UNIT	0005 80% FED 20% STATE	0005 100% VILLAGE		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2089	2089					* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	9252	9252				
									81400200	HEAVY-DUTY HANDHOLE	EACH	4	4				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1536	1536					* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	6	6				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	30720	30376	344				81400300	DOUBLE HANDHOLE	EACH	3	3				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2705	2632	73				* 89502376	REBUILD EXISTING HANDHOLE	EACH	3	3				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	55844	55364	480				86400100	TRANSCIVER - FIBER OPTIC	EACH	1	1				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	12857	12757	100				X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1325	1325					87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1782	1782				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2089	2089					X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	2125	2125				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1536	1536					87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	334	334				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1665	1649	16				* X4240800	DETECTABLE WARNINGS (SPECIAL)	SO FT	338	338				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1626	1610	16				87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	334	334				
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	416	416					* X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1500	1500				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1					87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2263	2263				
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	94	94					X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	102	102				
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	601	601					87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1438	1438				
									X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	43669	43669				
									87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	207	207				
									Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	3206	3170	36			
									87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	804	804				
									* Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	100	100				
									87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	4				
									Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8				
									87800100	CONCRETE FOUNDATION, TYPE A	FOOT	36	36				
									Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	49800	49800				
									87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4				
									Z0076600	TRAINEES	HOUR	500	500				
									87900200	DRILL EXISTING HANDHOLE	EACH	5	5				
									Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500				

FILE NAME =	USER NAME = paraynot	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.)) SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -			CONTRACT NO. 62H44					
		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

\*= SPECIALTY ITEM \* 100% STATE Ø 0042

REV. 4/01/19 REV. 3/12/19

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8					
88500100	INDUCTIVE LOOP DETECTOR	EACH	13	13					
88600100	DETECTOR LOOP, TYPE I	FOOT	1193	1193					
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8					
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1					
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	6	6					
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4	4					
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1	1					
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	1					
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9768	9768					
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	805	805					
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1					
89502380	REMOVE EXISTING HANDHOLE	EACH	8	8					
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1					
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	354	354					
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	609	609					
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1					
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1					
X8100863	INTERCEPT EXISTING CONDUIT	EACH	4	4					
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1					
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1					

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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

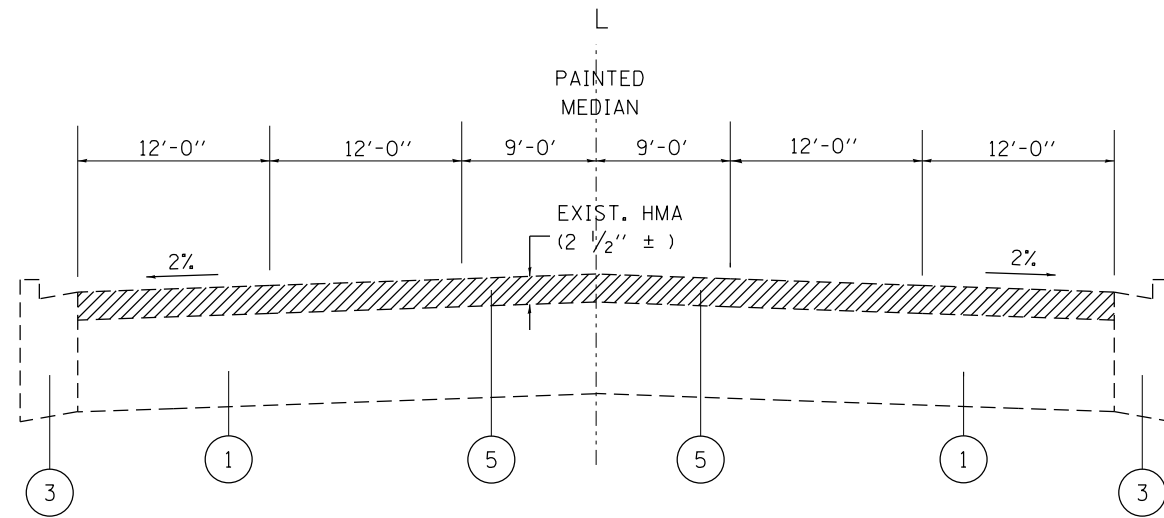
**IL. ROUTE 62 (IL. 58 (GOLF RD.) – IL. 83 (ELMHURST RD.))  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	5A
CONTRACT NO. 62H44				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

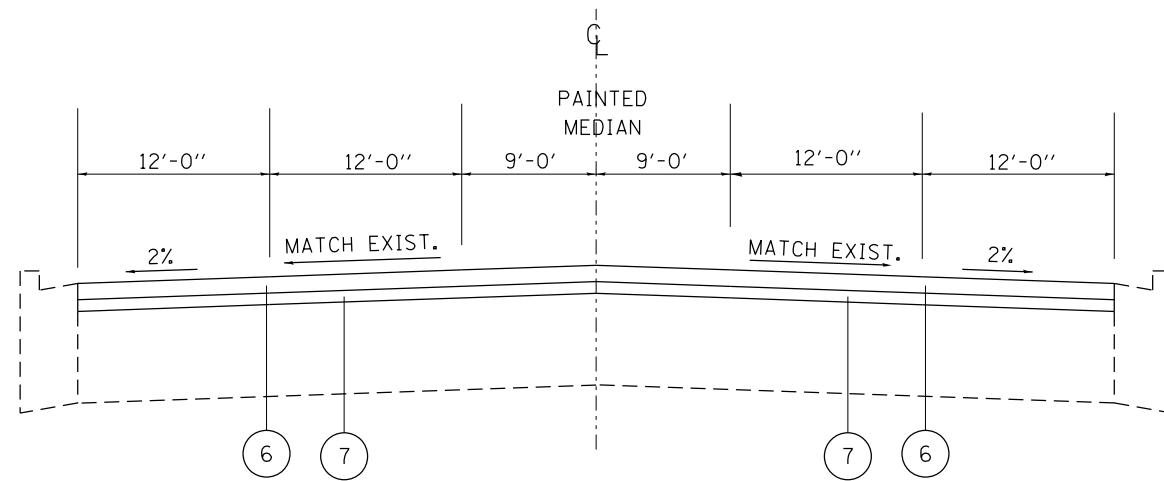


### LEGEND

- ① EXIST. PCC PAVEMENT, ± 10"
- ② EXIST. AGGREGATE SUBGRADE
- ③ EXIST. COMB. CONCRETE CURB AND GUTTER
- ④ EXIST. PAINTED / RAISED MEDIAN
- ⑤ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑥ PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑦ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"



EXISTING TYPICAL SECTION  
IL ROUTE 62  
STA. 16+74 TO STA. 182+91



PROPOSED TYPICAL SECTION  
IL ROUTE 62  
STA. 16+74 TO STA. 182+91

NOTE:  
THE CONTRACTOR SHALL PATCH THE ROADWAY FIRST,  
THEN MILL PER BD-22 DETAIL.

MODEL: Default  
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PLOT DATE = 2/1/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))  
EXISTING AND PROPOSED TYPICAL SECTIONS.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	7
CONTRACT NO. 62H44			ILLINOIS FED. AID PROJECT	

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

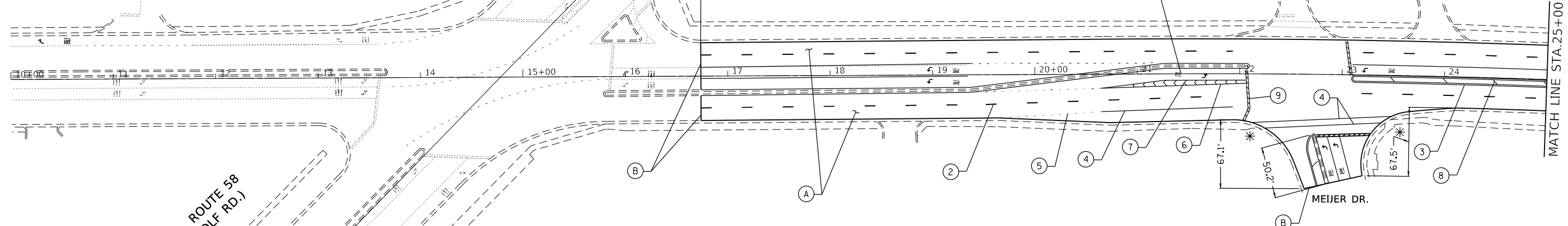
PROJECT BEGINS  
STA. 16+74

IL. ROUTE 62  
(ALGONQUIN RD.)

IL 62

IL. ROUTE 58  
(GOLF RD.)

IL. ROUTE  
(GOLF RD.)



MATCH LINE STA. 25+00

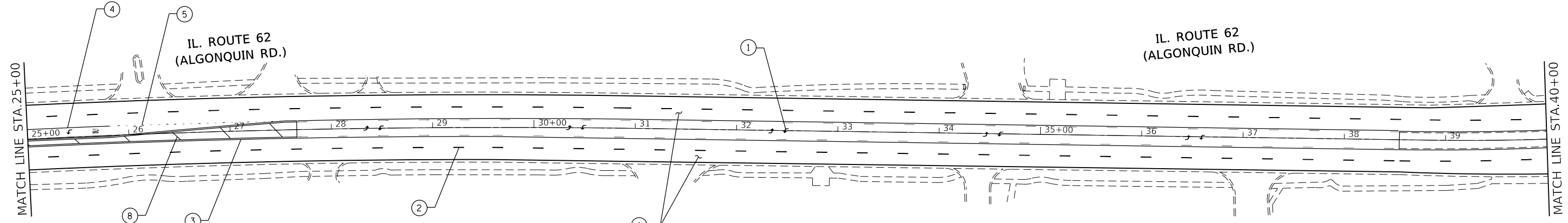
**PAVEMENT MARKING LEGEND**

① PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	⑤ PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2" DASH, 6" SKIP) (TYP.)	⑨ PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)
② PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)	⑥ PROP. THERMO. PVT. MRK.-8" GORE MRK., SOLID WHITE (TYP.)	
③ PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)	⑦ PROP. THERMO. PVT. MRK.-12" GORE MRK., CHEVRON WHITE (TYP.)	
④ PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)	⑧ PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)	

NOTE: ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

**ROADWAY PROPOSED WORK LEGEND**

Ⓐ	PROP. HMA SURFACE REMOVAL, 2 1/2" PROP. POLY. HMA SURFACE COURSE, MIX "E", N70 1 3/4" PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
Ⓑ	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
*	PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)



MATCH LINE STA. 40+00

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/1/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

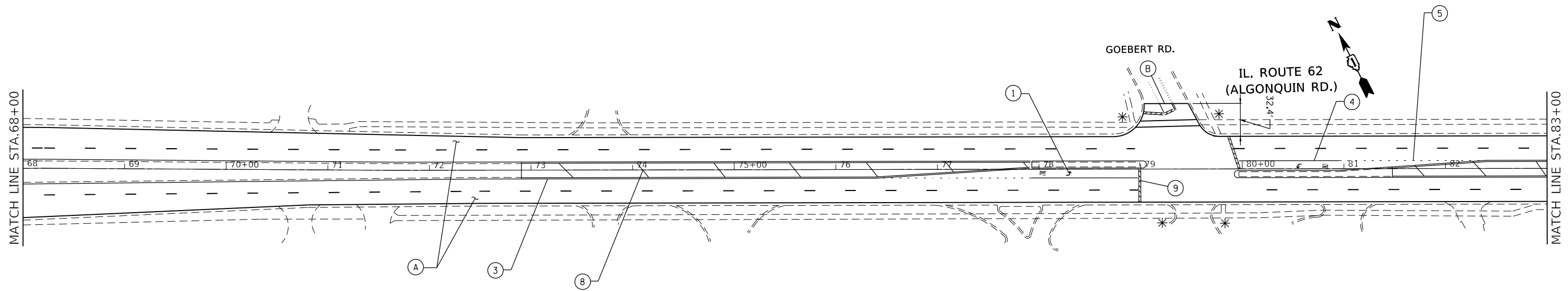
**EXISTING AND PROPOSED ROADWAY PLANS  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	8
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				







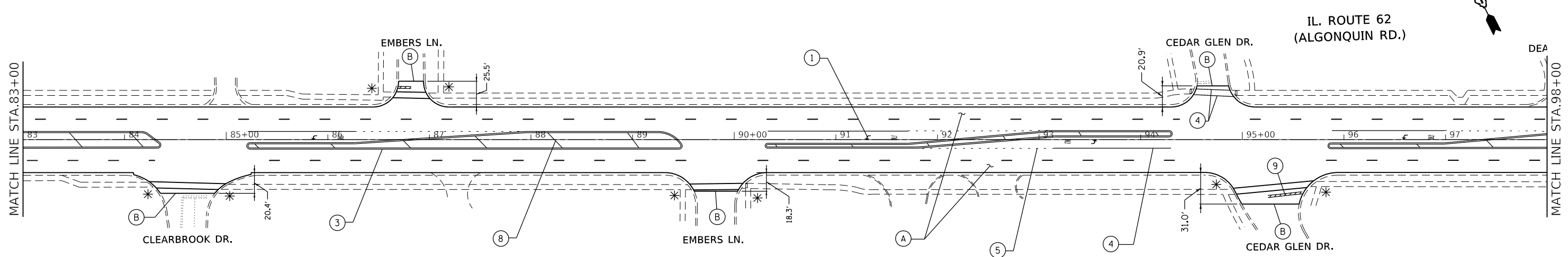
**PAVEMENT MARKING LEGEND**

① PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	⑤ PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2' DASH, 6" SKIP) (TYP.)	⑨ PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)
② PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)	⑥ PROP. THERMO. PVT. MRK.-8" GORE MRK., SOLID WHITE (TYP.)	
③ PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)	⑦ PROP. THERMO. PVT. MRK.-12" GORE MRK., CHEVRON WHITE (TYP.)	
④ PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)	⑧ PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)	

NOTE: ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

**ROADWAY PROPOSED WORK LEGEND**

A	PROP. HMA SURFACE REMOVAL, 2 1/2" PROP. POLY. HMA SURFACE COURSE, MIX "E", N70 1 3/4" PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
B	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
*	PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)



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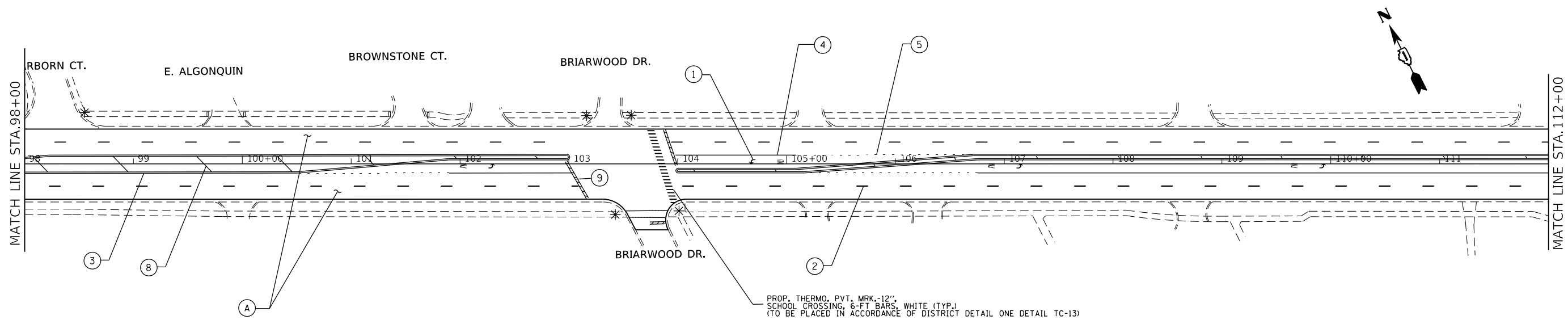
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLANS  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	10
			CONTRACT NO. 62H44	
		ILLINOIS	FED. AID PROJECT	



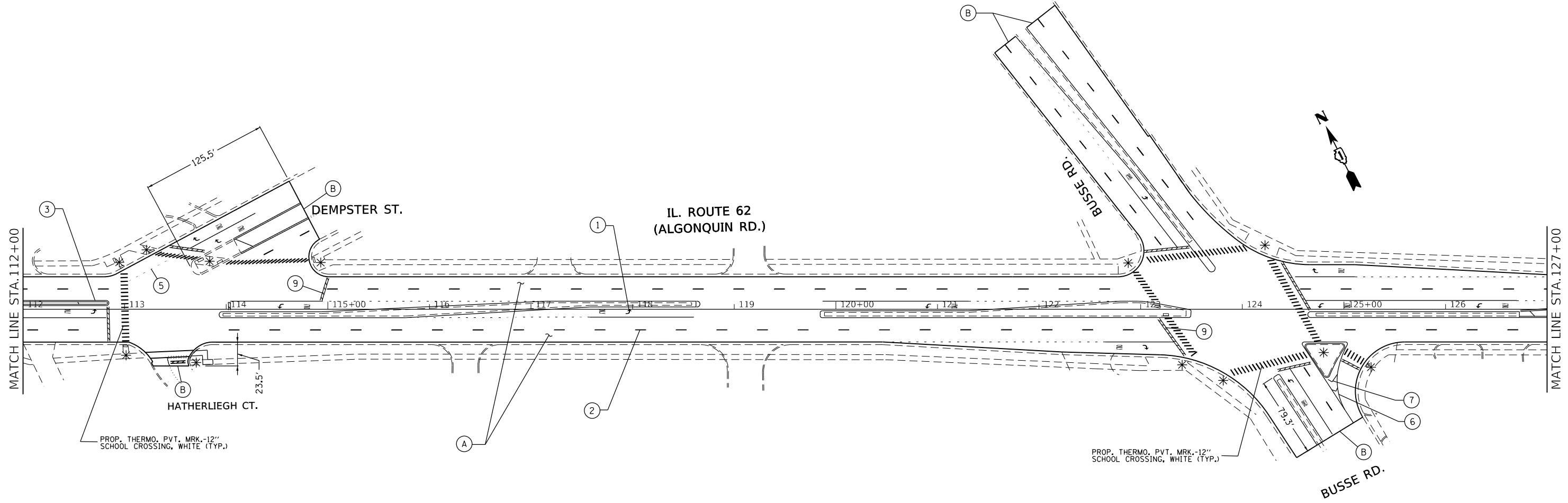
**PAVEMENT MARKING LEGEND**

<p>① PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)</p> <p>② PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)</p> <p>③ PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)</p> <p>④ PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)</p>	<p>⑤ PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2' DASH, 6' SKIP) (TYP.)</p> <p>⑥ PROP. THERMO. PVT. MRK.-8" GORE MRK., SOLID WHITE (TYP.)</p> <p>⑦ PROP. THERMO. PVT. MRK.-12" GORE MRK., CHEVRON WHITE (TYP.)</p> <p>⑧ PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)</p>	<p>⑨ PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)</p>
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NOTE: ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

**ROADWAY PROPOSED WORK LEGEND**

<p>Ⓐ PROP. HMA SURFACE REMOVAL, 2 1/2"</p> <p>PROP. POLY. HMA SURFACE COURSE, MIX "E", NTO 1 3/4"</p> <p>PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"</p>	<p>Ⓑ PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING</p>	<p>* PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)</p>
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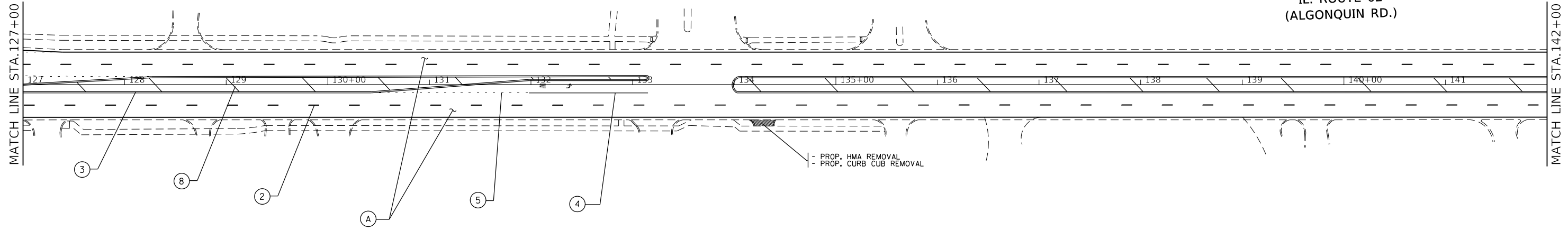
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLANS  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	11
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 62  
(ALGONQUIN RD.)

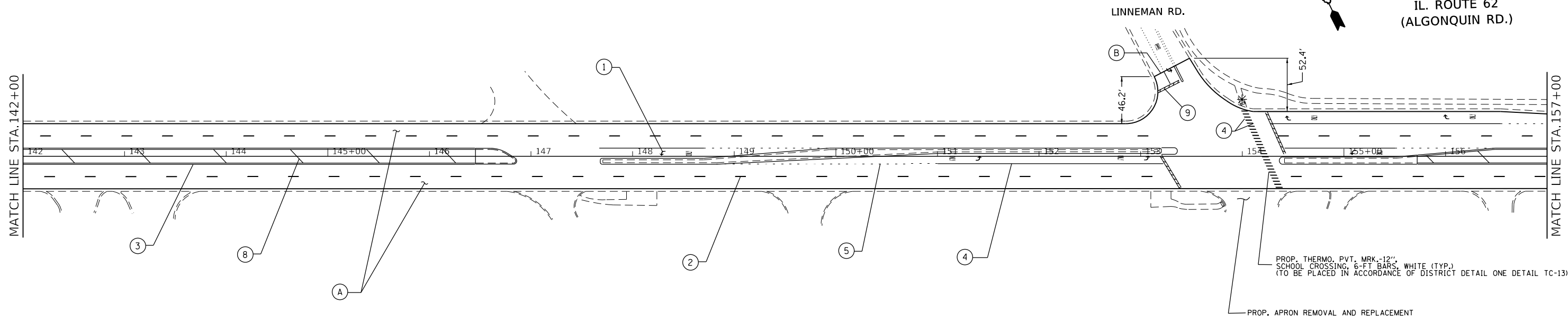


PAVEMENT MARKING LEGEND			
①	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	⑨	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)
②	PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)	⑤	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2' DASH, 6' SKIP) (TYP.)
③	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)	⑥	PROP. THERMO. PVT. MRK.-8" GORE MRK., SOLID WHITE (TYP.)
④	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)	⑦	PROP. THERMO. PVT. MRK.-12" GORE MRK., CHEVRON WHITE (TYP.)
		⑧	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

ROADWAY PROPOSED WORK LEGEND	
A	PROP. HMA SURFACE REMOVAL, 2 1/2" PROP. POLY. HMA SURFACE COURSE, MIX "E", N70 1 3/4" PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
B	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
*	PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)

IL. ROUTE 62  
(ALGONQUIN RD.)



PAVEMENT MARKING LEGEND			
①	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	⑨	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)
②	PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)	⑤	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2' DASH, 6' SKIP) (TYP.)
③	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)	⑥	PROP. THERMO. PVT. MRK.-8" GORE MRK., SOLID WHITE (TYP.)
④	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)	⑦	PROP. THERMO. PVT. MRK.-12" GORE MRK., CHEVRON WHITE (TYP.)
		⑧	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

ROADWAY PROPOSED WORK LEGEND	
A	PROP. HMA SURFACE REMOVAL, 2 1/2" PROP. POLY. HMA SURFACE COURSE, MIX "E", N70 1 3/4" PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
B	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
*	PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED ROADWAY PLANS IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))			
SCALE: 1" = 50"	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	12
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				





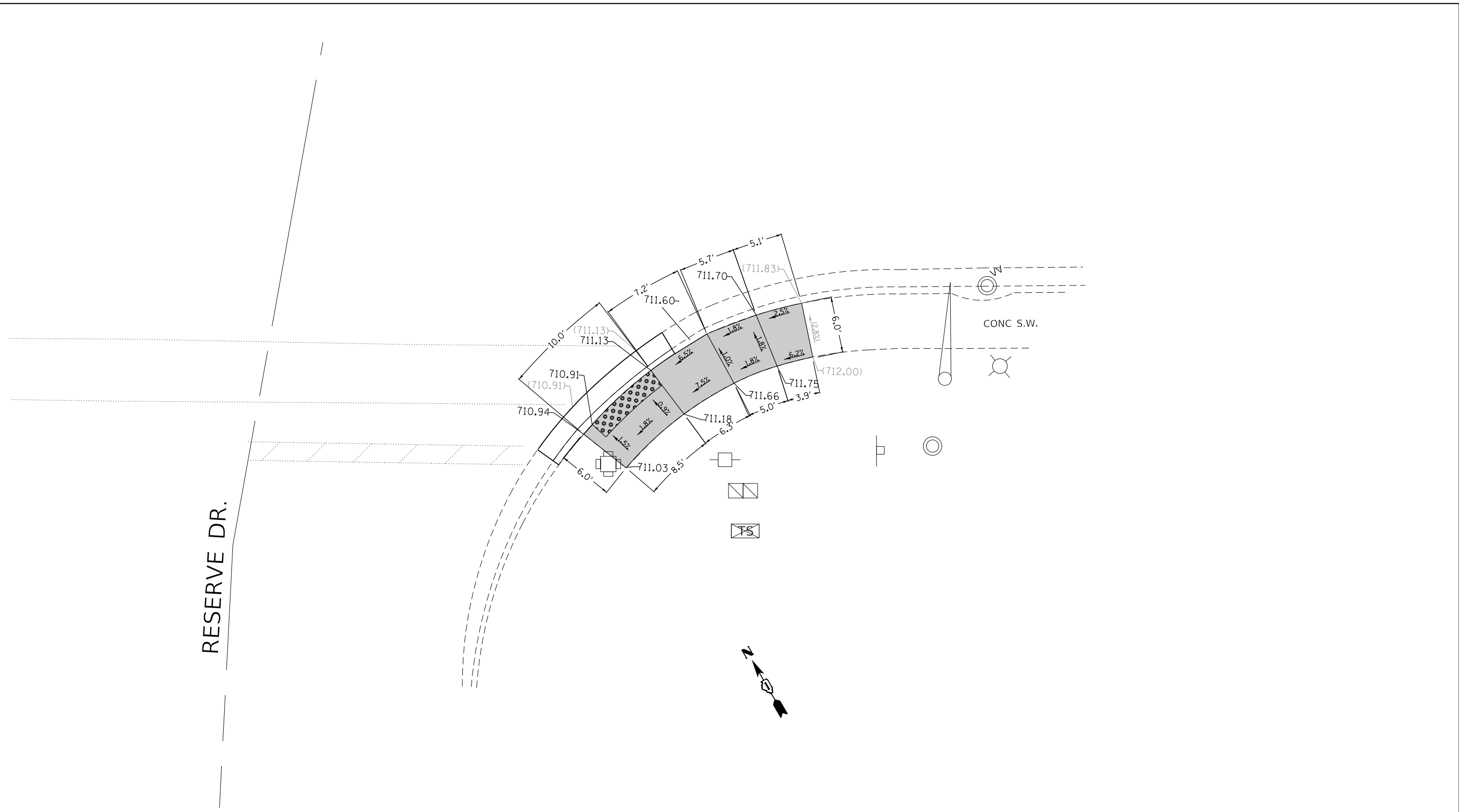








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REFERENCE BENCHMARK ELEV: 710.54  
 BENCHMARK DESCRIPTION : SQUARE IN THE S. CONC. BASE OF T.S. WITH ARM  
 BENCHMARK LOCATION : AT N.E. CORNER OF ALGONQUIN RD. AND RESERVE DR.

**LEGEND**

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

**S.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND RESERVE DR.**

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	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

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

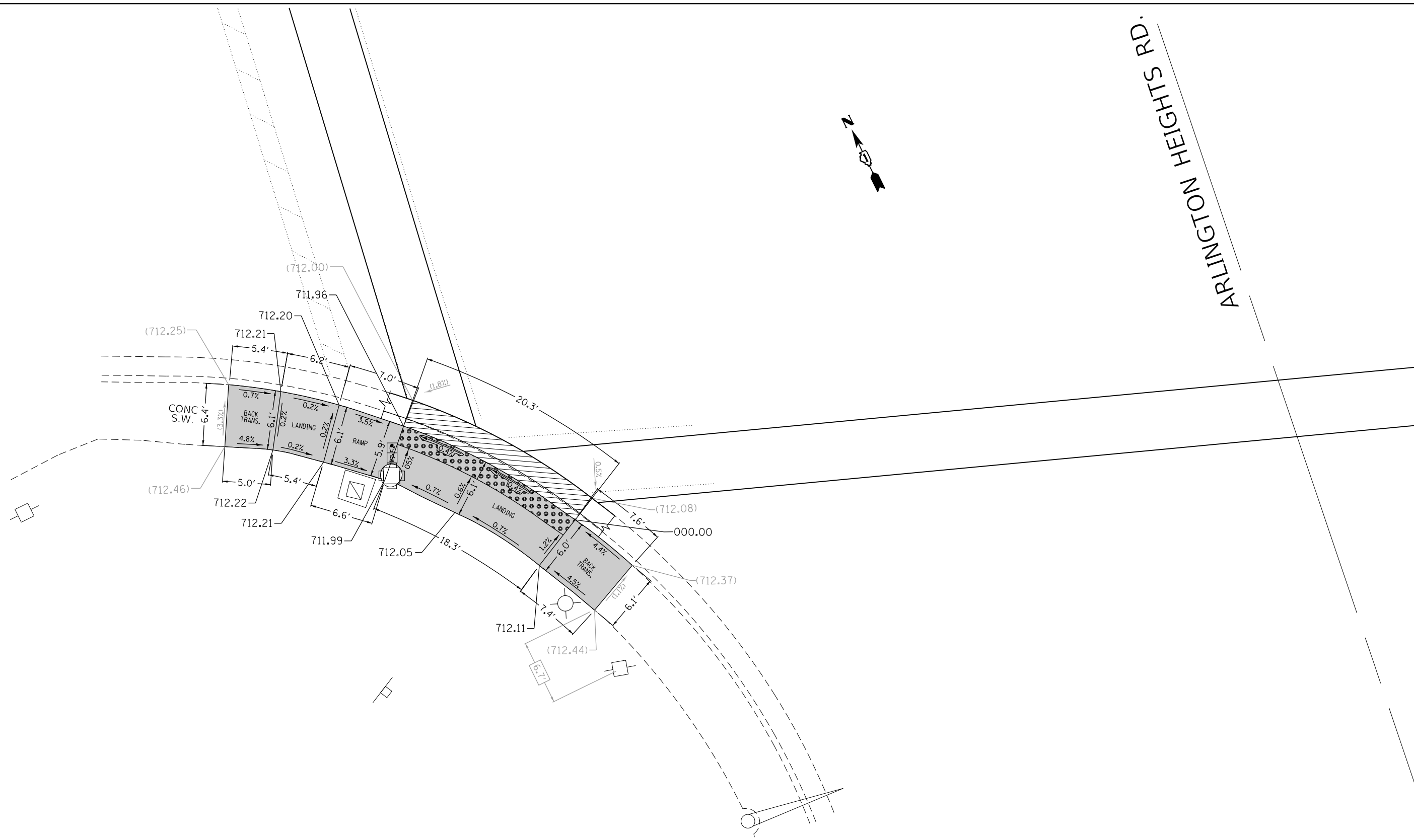
**SIDEWALK DETAIL PLAN**  
**IL 62. - (E. OF IL 58. - IL 83.)**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	18
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



ARLINGTON HEIGHTS RD.



REFERENCE BENCHMARK ELEV: 712.67  
 BENCHMARK DESCRIPTION : SQUARE IN E. SIDE CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD.  
 AND ARLINGTON HEIGHTS RD.

**LEGEND**

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

**S.W. CORNER OF IL-62 (ALGONQUIN ROAD) AND ARLINGTON HEIGHTS ROAD.**

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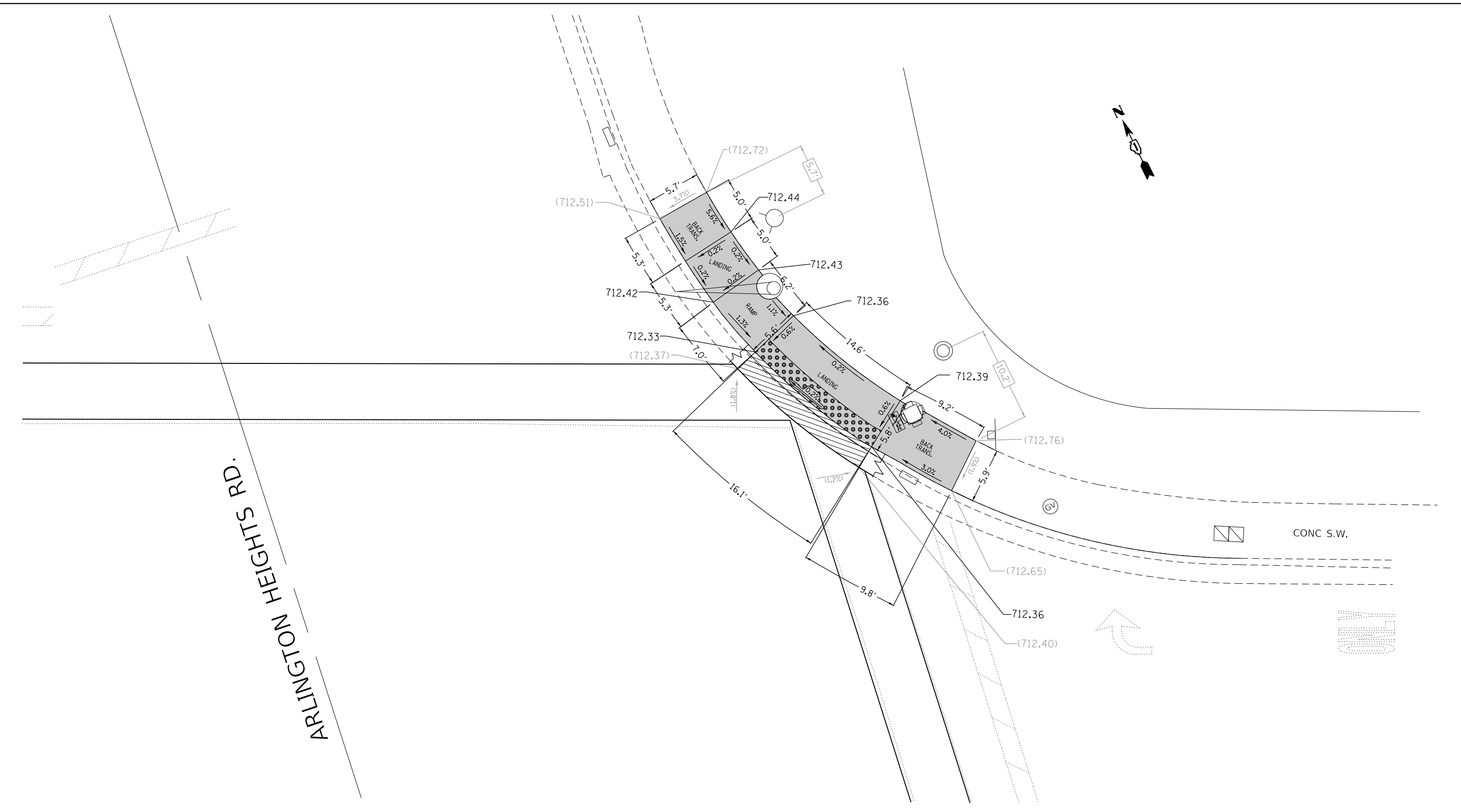
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	20
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV: 712.67  
 BENCHMARK DESCRIPTION : SQUARE IN E. SIDE CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD.  
 AND ARLINGTON HEIGHTS RD.

<b>LEGEND</b>		PROPOSED SIDEWALK
EXISTING LENGTH	DETECTABLE WARNINGS	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD
PROPOSED SIDE CURB	EXISTING ELEVATION/SLOPE	

**N.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND ARLINGTON HEIGHTS ROAD.**

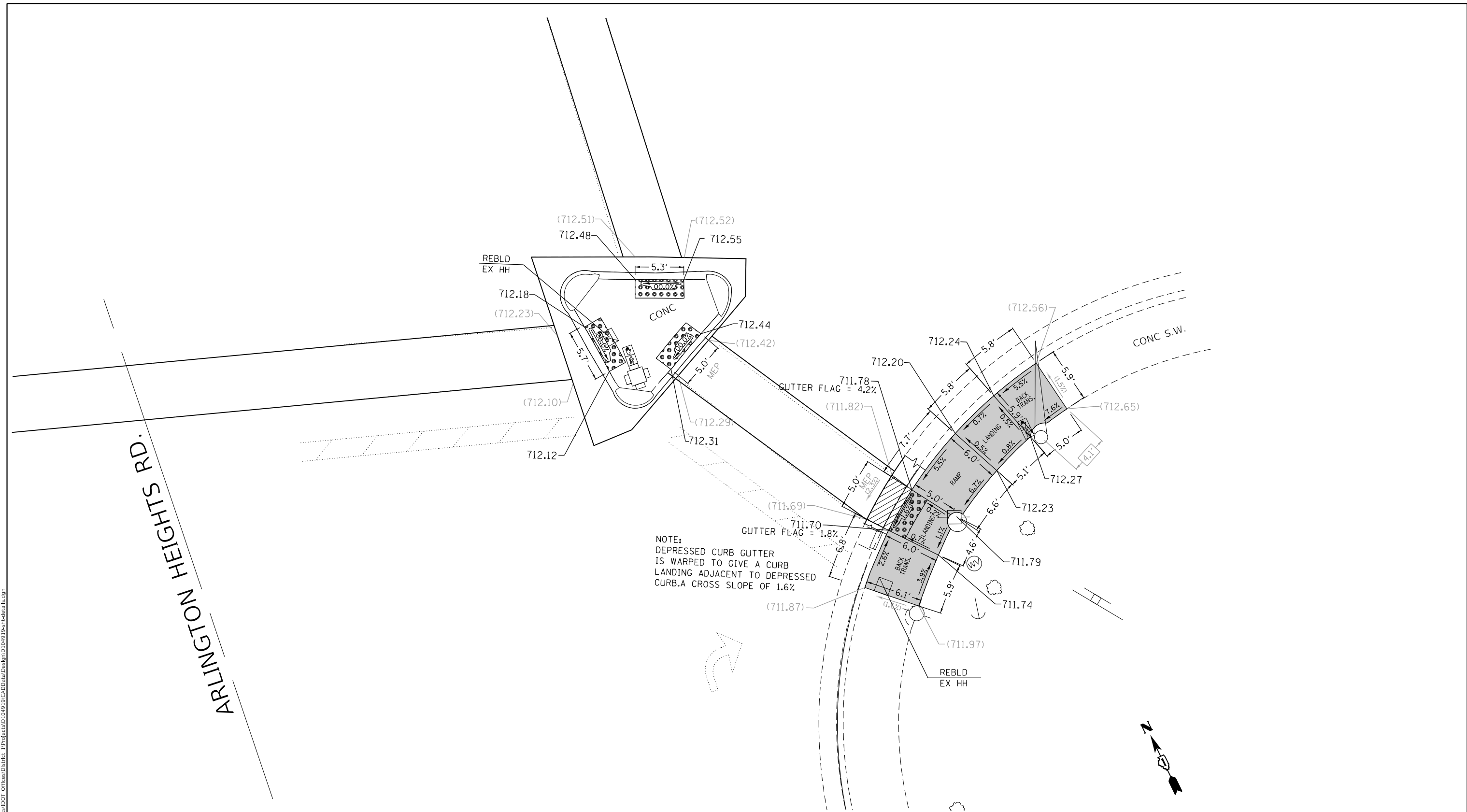
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PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	21
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV: 712.67  
 BENCHMARK DESCRIPTION : SQUARE IN E. SIDE CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD.  
 AND ARLINGTON HEIGHTS RD.

LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Grey Box]	PROPOSED SIDEWALK
[Grid Pattern Box]	DETECTABLE WARNINGS
[Cross-hatch Pattern Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**S.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND ARLINGTON HEIGHTS ROAD.**

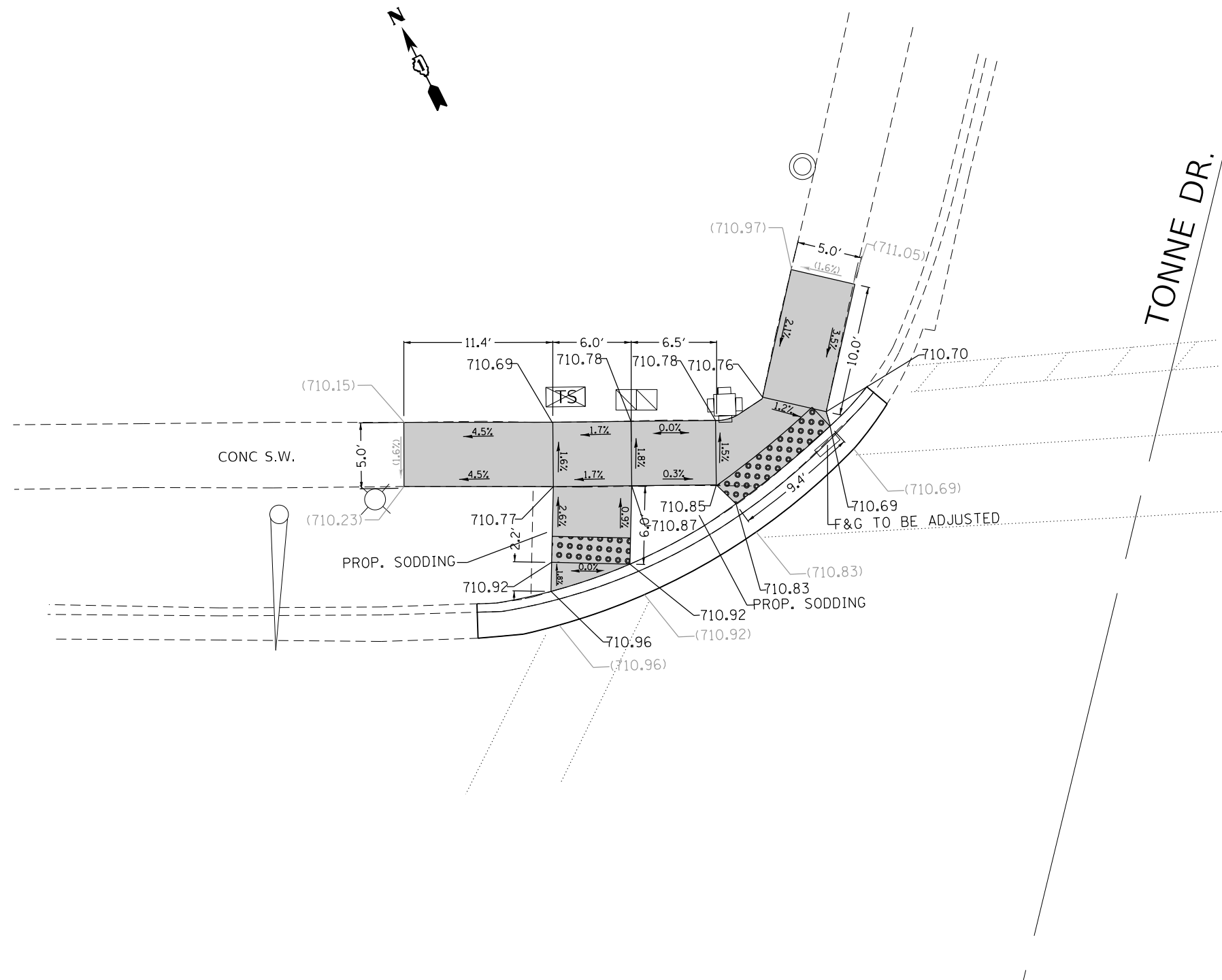
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PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

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

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	22
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				





REFERENCE BENCHMARK ELEV: 711.88  
 BENCHMARK DESCRIPTION : SQUARE IN THE N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND TONNE DR.

LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Grey Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

N.W. CORNER OF IL-62 (ALGONQUIN ROAD) AND TONNE DR.

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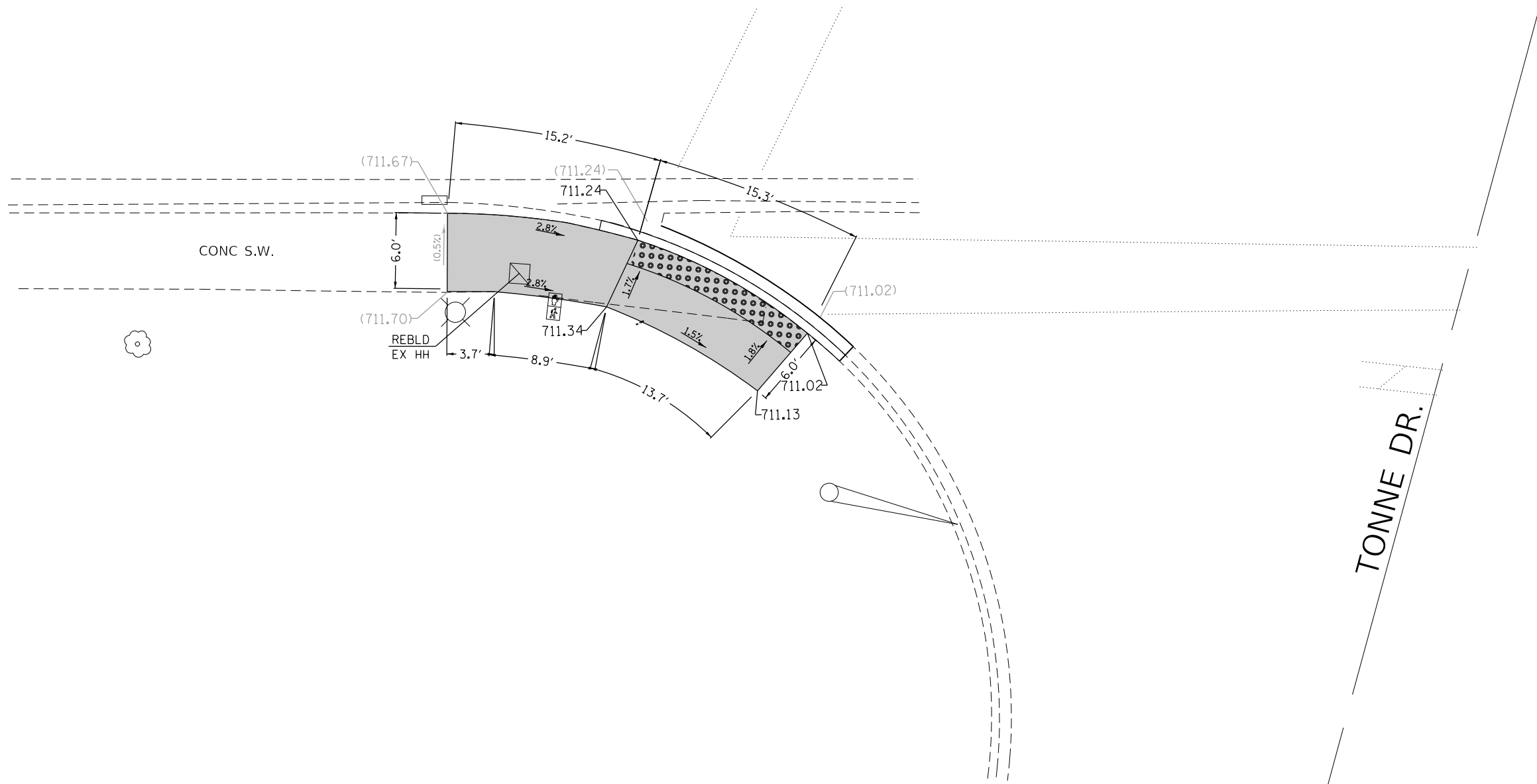
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	23
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				





REFERENCE BENCHMARK ELEV: 711.88

BENCHMARK DESCRIPTION : SQUARE IN THE N. CONC. BASE OF LIGHT POLE.

BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND TONNE DR.

**LEGEND**

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

**S.W. CORNER OF IL-62 (ALGONQUIN ROAD) AND TONNE DR.**

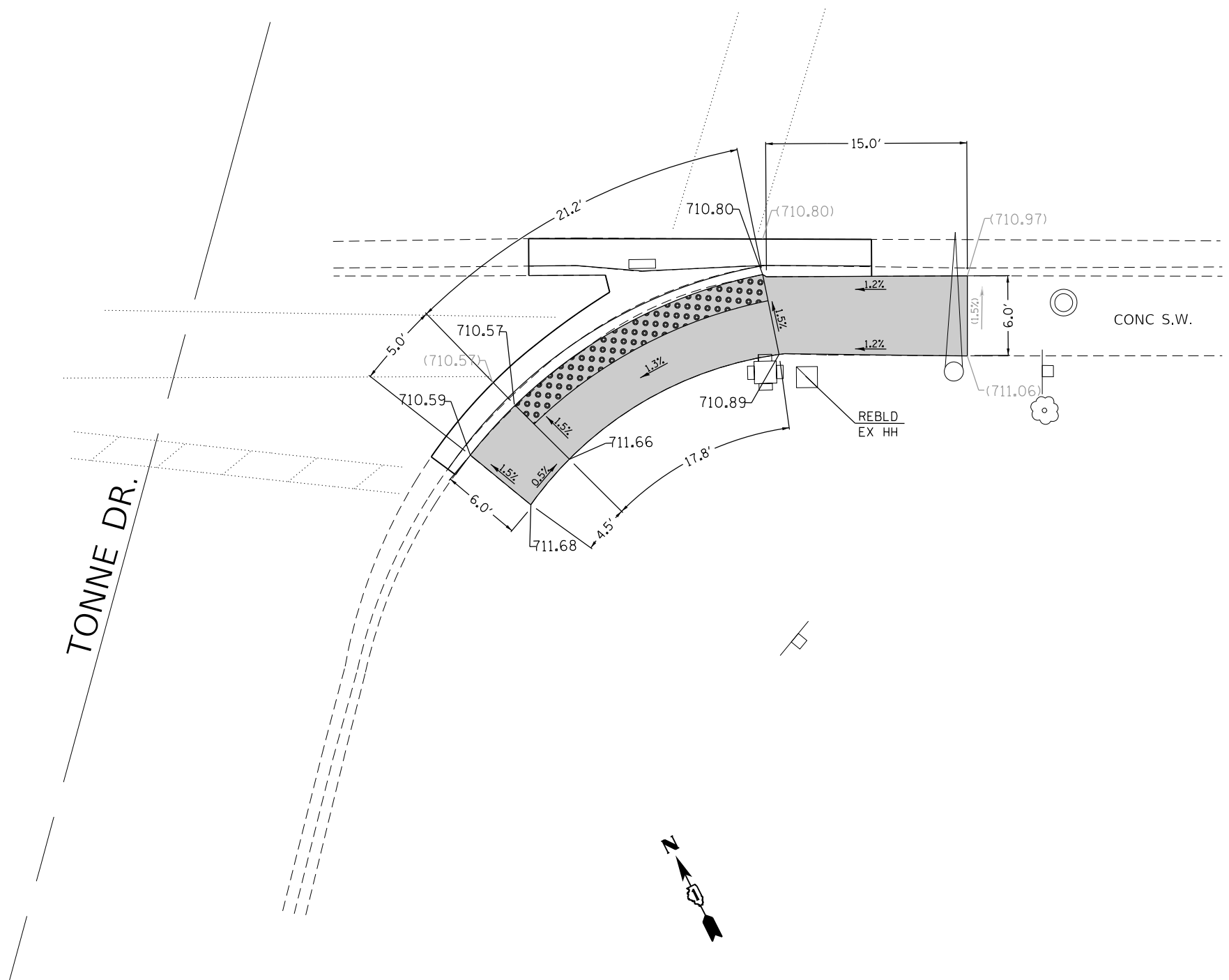
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PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	25
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV: 711.88  
 BENCHMARK DESCRIPTION : SQUARE IN THE N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND TONNE DR.

LEGEND	
xx.xx'	EXISTING LENGTH
====	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Gray Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

S.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND TONNE DR.

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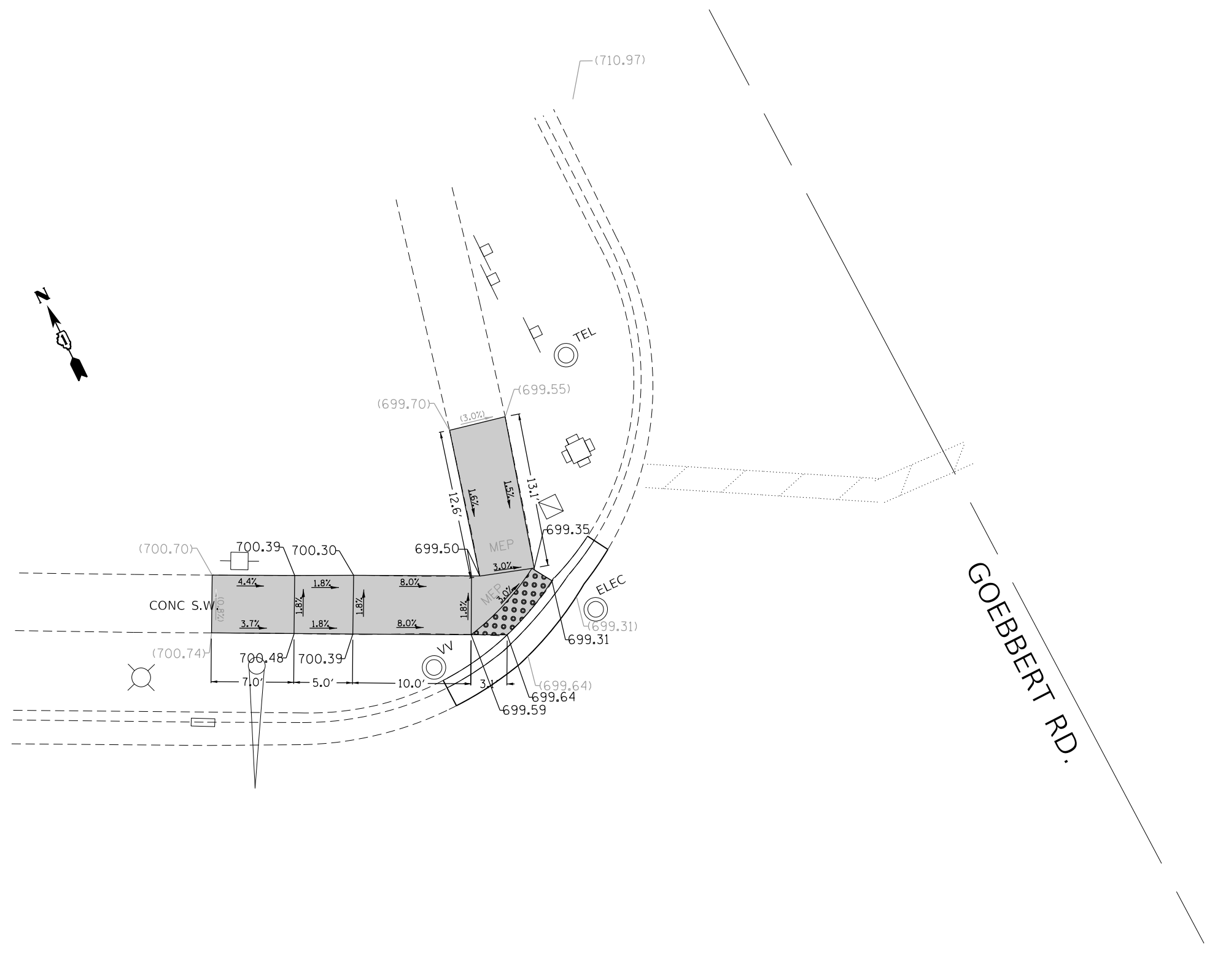
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	26
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV: 701.07  
 BENCHMARK DESCRIPTION : SQUARE IN S. CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT N.W. CORNER OF ALGONQUIN RD. AND GOEBBERT RD.

**LEGEND**

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

**N.W. CORNER OF IL-62 (ALGONQUIN ROAD) AND GOEBBERT RD.**

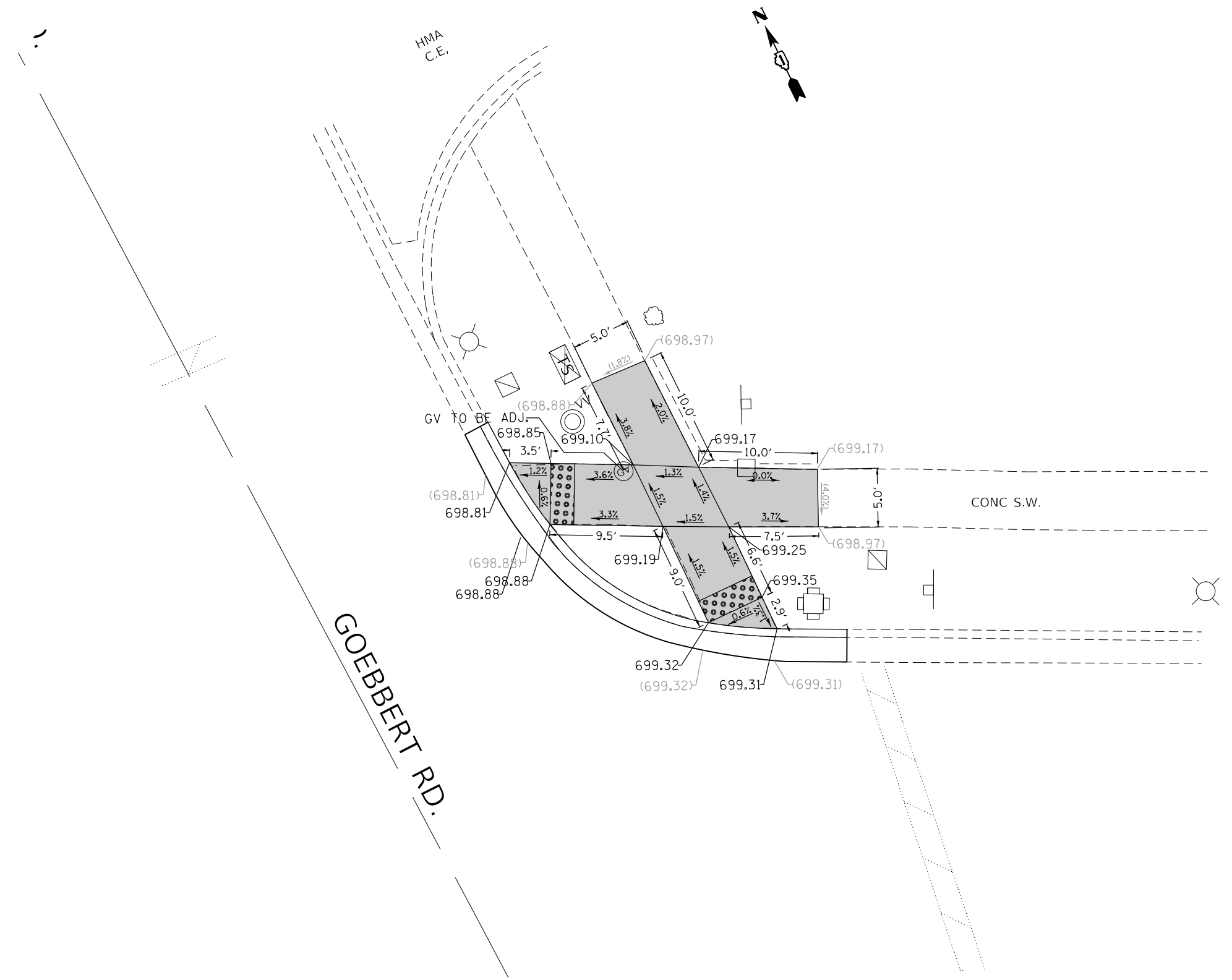
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PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	27
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV: 701.07  
 BENCHMARK DESCRIPTION : SQUARE IN S. CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT N.W. CORNER OF ALGONQUIN RD. AND GOEBBERT RD.

LEGEND	
xx.xx'	EXISTING LENGTH
====	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Gray Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

N.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND GOEBBERT RD.

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	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

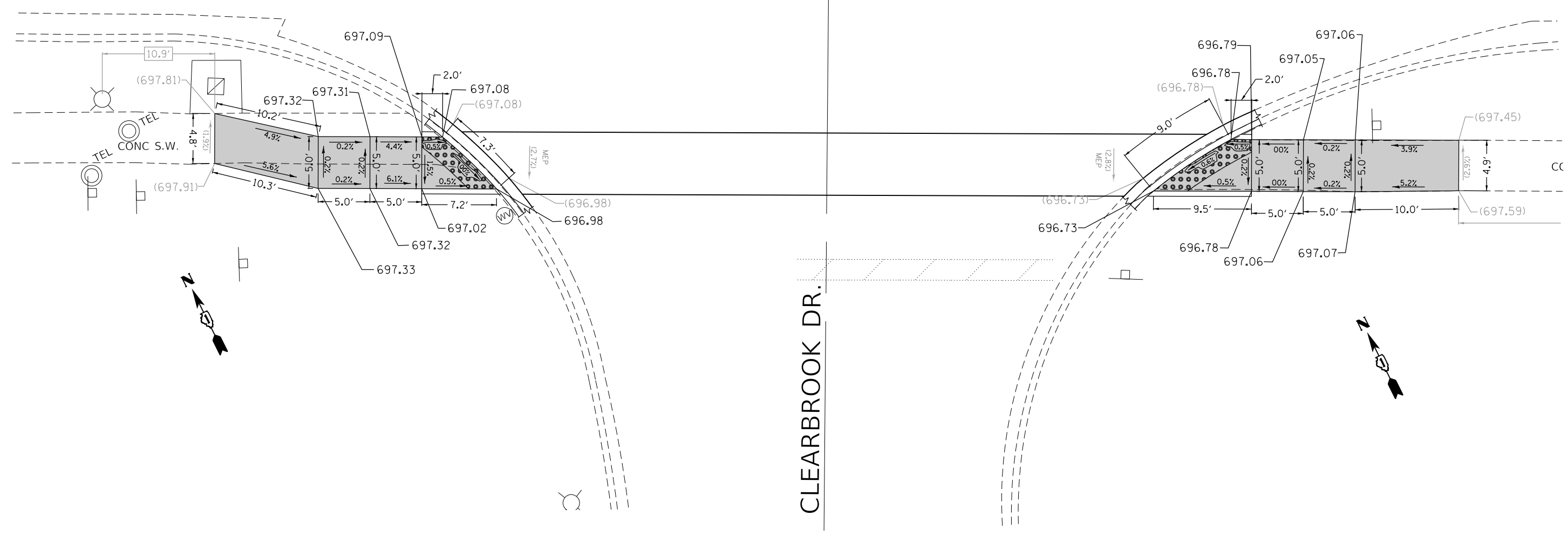
SIDEWALK DETAIL PLAN			
IL 62. - (E. OF IL 58. - IL 83.)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	28
				CONTRACT NO. 62H44
		ILLINOIS	FED. AID PROJECT	





MODEL: Default  
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 PROJECT: ...  
 OFFICE: ...  
 DATE: ...



**LEGEND**

<span style="border: 1px solid black; padding: 2px;">xx.xx'</span>	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**S.W. AND S.E. CORNERS OF IL-62 (ALGONQUIN ROAD) AND CLEARBROOK DR.**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

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

**SIDEWALK DETAIL PLAN**

**IL 62. - (E. OF IL 58. - IL 83.)**

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

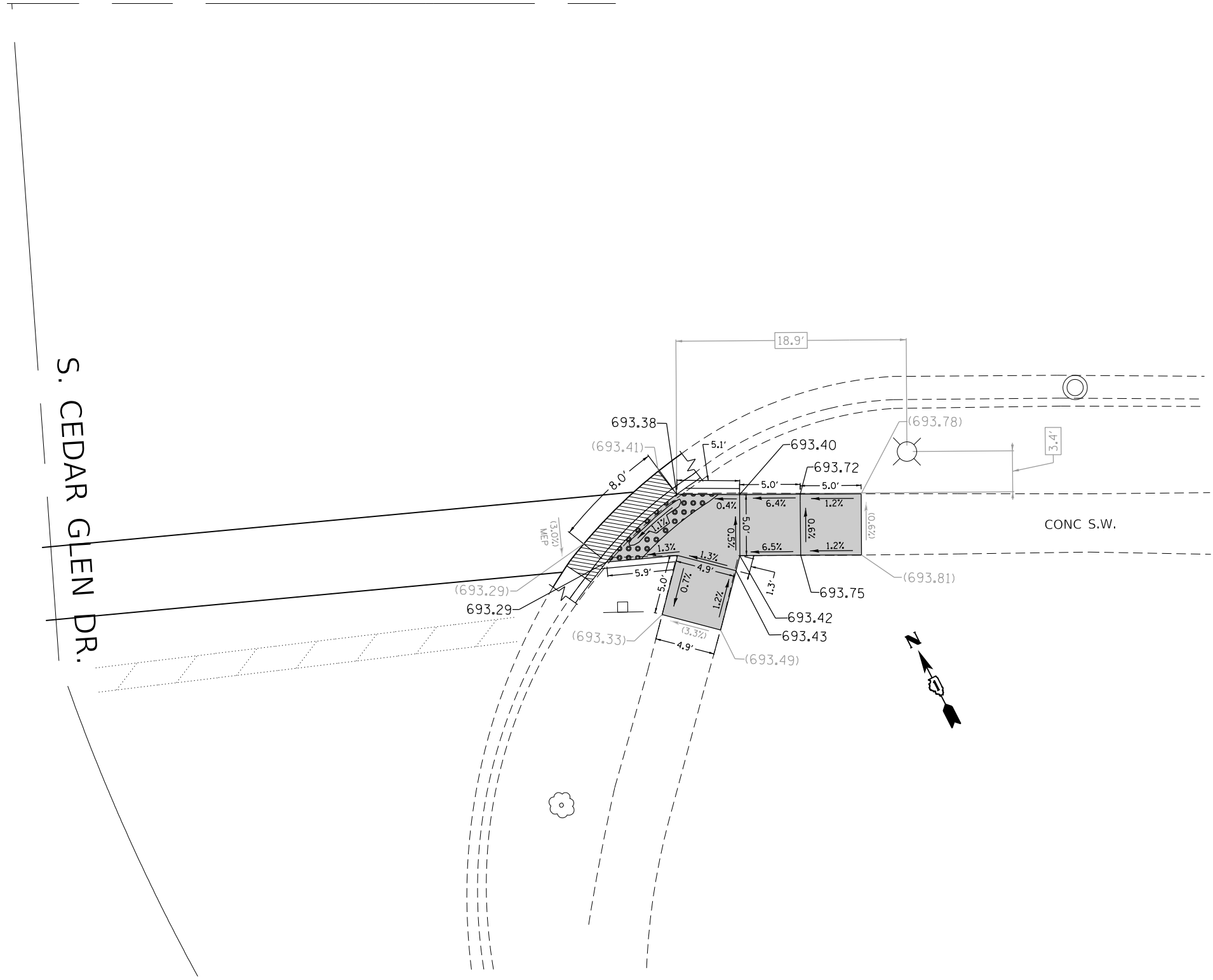
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	28B
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				







S. CEDAR GLEN DR.



REFERENCE BENCHMARK ELEV 694.17  
 BENCHMARK DESCRIPTION : SQUARE IN N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.E. CORNER OF ALGONQUIN RD. AND CEDAR GLENN DR.

LEGEND	
xx.xx'	EXISTING LENGTH
====	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
■	PROPOSED SIDEWALK
●●●●	DETECTABLE WARNINGS
⊗	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

S.E. CORNER OF IL-62 (ALGONQUIN ROAD) AND CEDAR GLEN DR.

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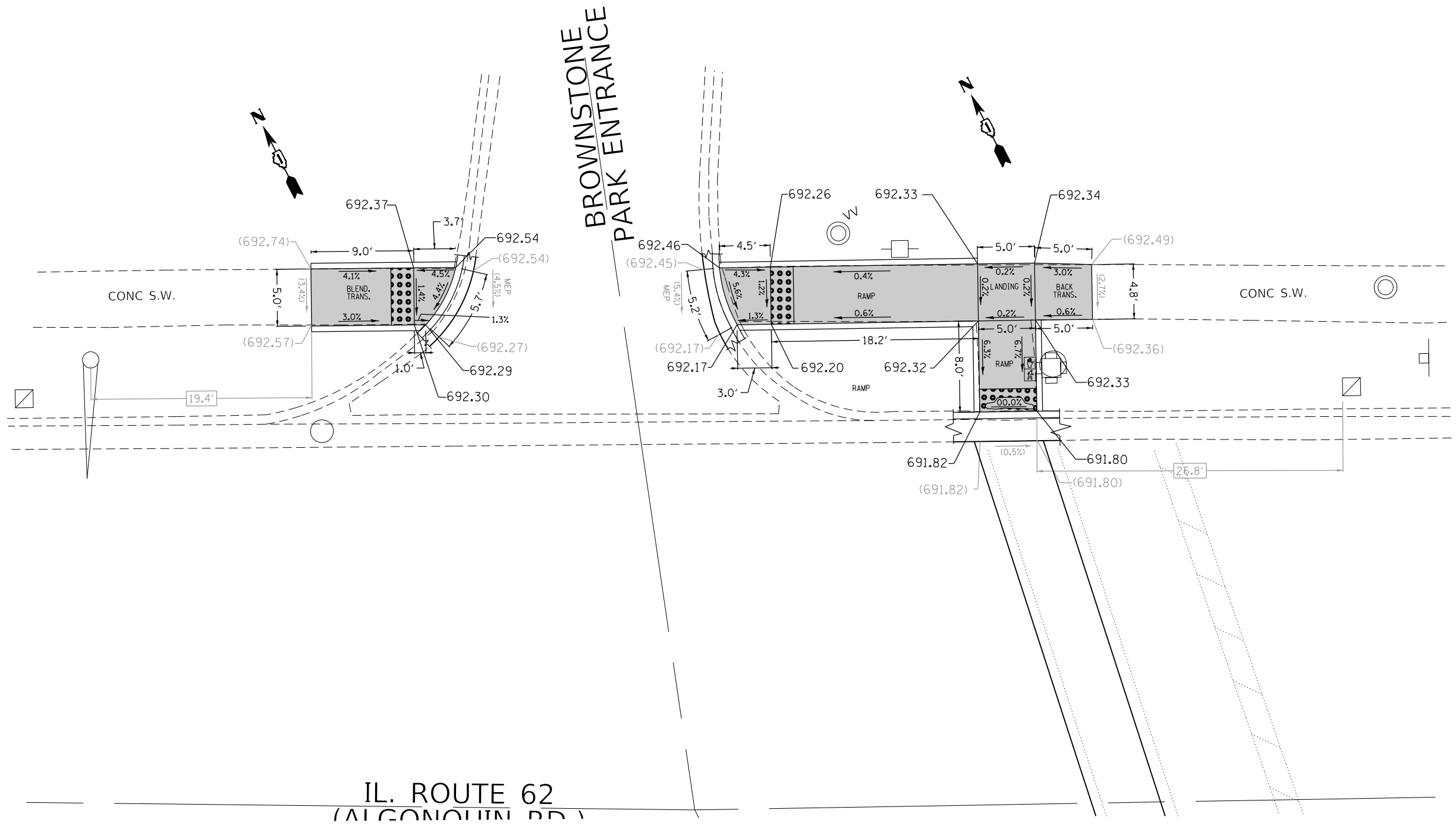
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	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN			
IL 62. - (E. OF IL 58. - IL 83.)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	32
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				





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REFERENCE BENCHMARK ELEV: 692.39  
 BENCHMARK DESCRIPTION: SQUARE IN W. CONC. BASE OF T.S. WITH BUTTON.  
 BENCHMARK LOCATION : AT N.E. CORNER OF ALGONQUIN RD.  
 AND BRIARWOOD DR. / BROWNSTONE PARK ENTRANCE.

**LEGEND**

<span style="border: 1px solid black; padding: 2px;">xx.xx'</span>	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**N.W. AND N.E. CORNERS OF IL-62 (ALGONQUIN ROAD)  
 AND BROWNSTONE PARK ENTRANCE**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	33
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



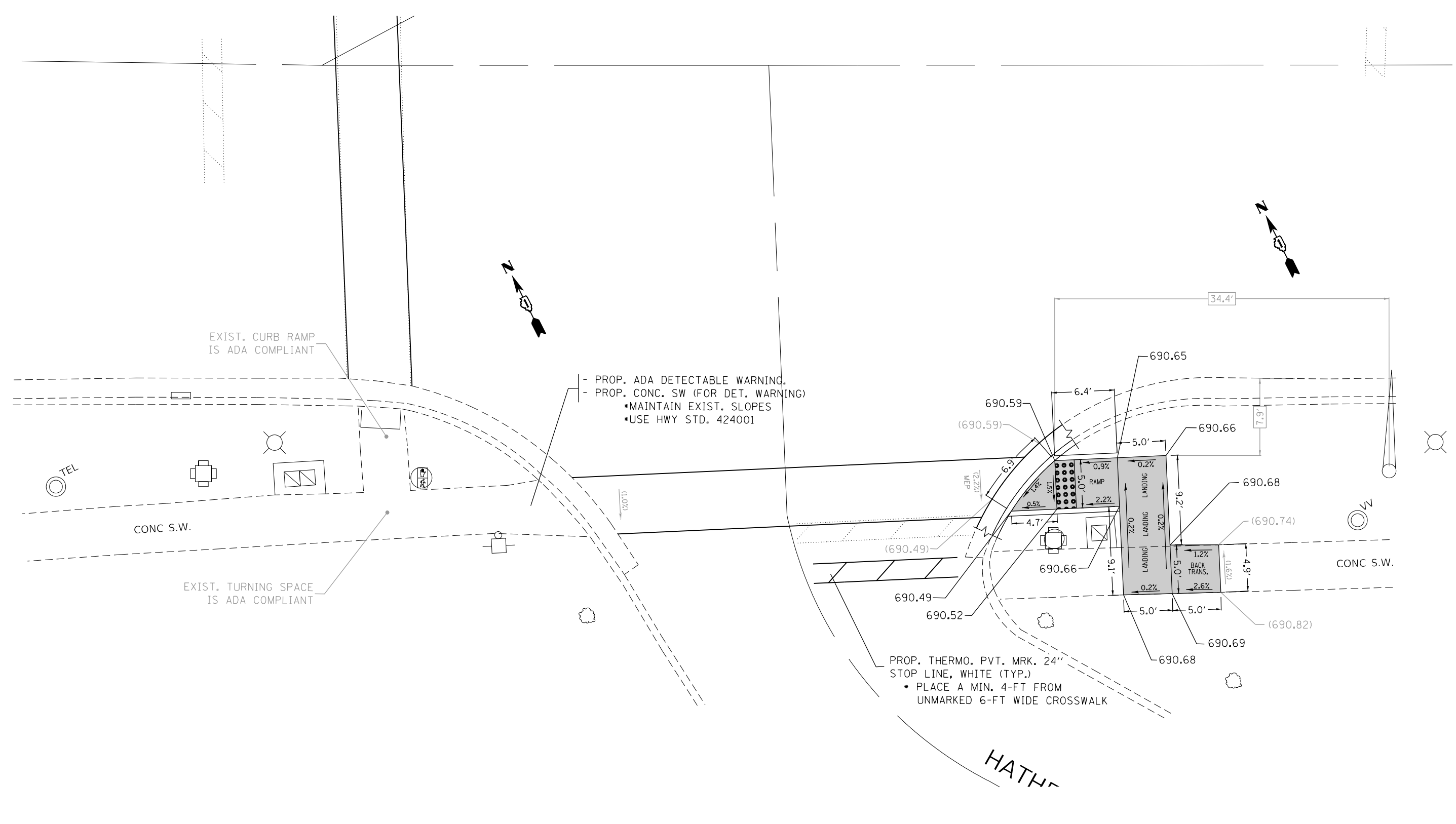








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REFERENCE BENCHMARK ELEV: 691.63  
 BENCHMARK DESCRIPTION : SQUARE IN S. CONC. BASE OF LIGHT POLE  
 BENCHMARK LOCATION : AT N.W. CORNER OF ALGONQUIN RD. AND DEMPSTER ST.

**LEGEND**

xx.xx'	EXISTING LENGTH	[Grey Box]	PROPOSED SIDEWALK
==	PROPOSED SIDE CURB	[Grid Box]	DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE	[Cross-hatch Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

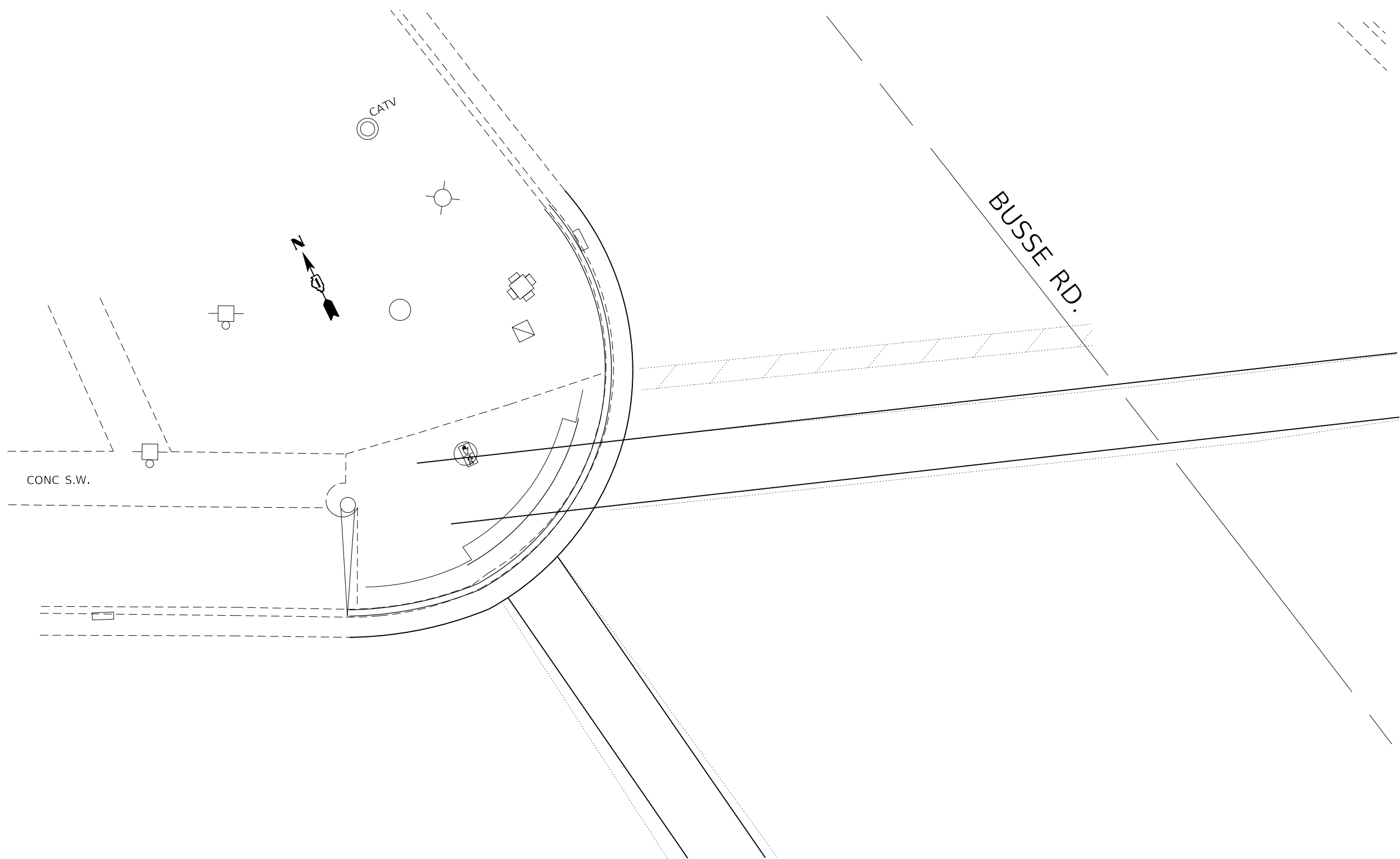
**S.W. AND S.E. OF IL-62 (ALGONQUIN ROAD) AND DEMPSTER STREET.**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

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

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	38
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV: 683.12  
 BENCHMARK DESCRIPTION : SQUARE IN N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND BUSSE RD.

**LEGEND**

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

**N.W. CORNER OF IL-62 (ALGONQUIN ROAD)  
AND BUSSE ROAD**

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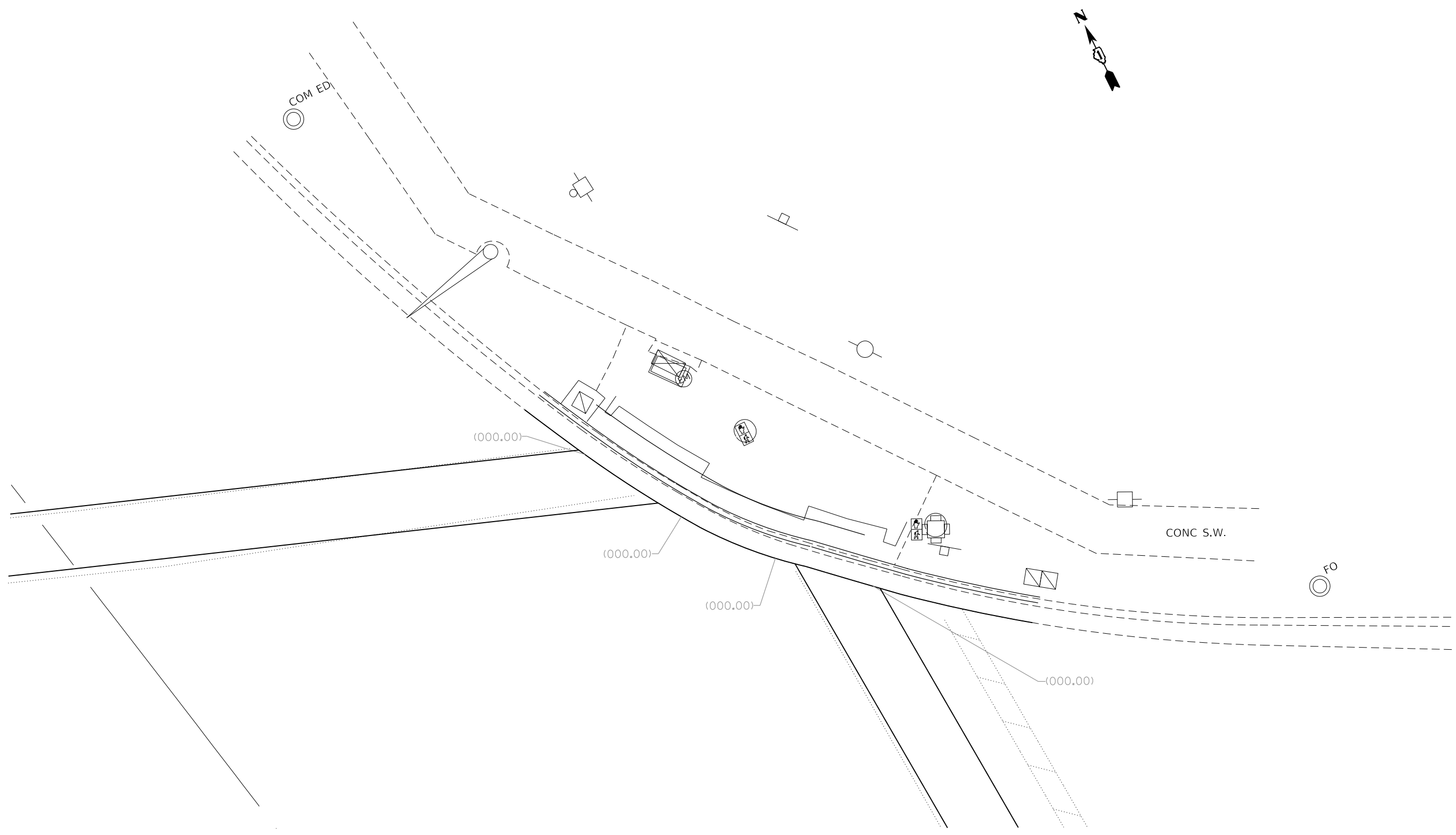
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	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN</b>			
<b>IL 62. - (E. OF IL 58. - IL 83.)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	39
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV: 683.12  
 BENCHMARK DESCRIPTION : SQUARE IN N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND BUSSE RD.

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

**N.E. CORNER OF IL-62 (ALGONQUIN ROAD)  
 AND BUSSE ROAD**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

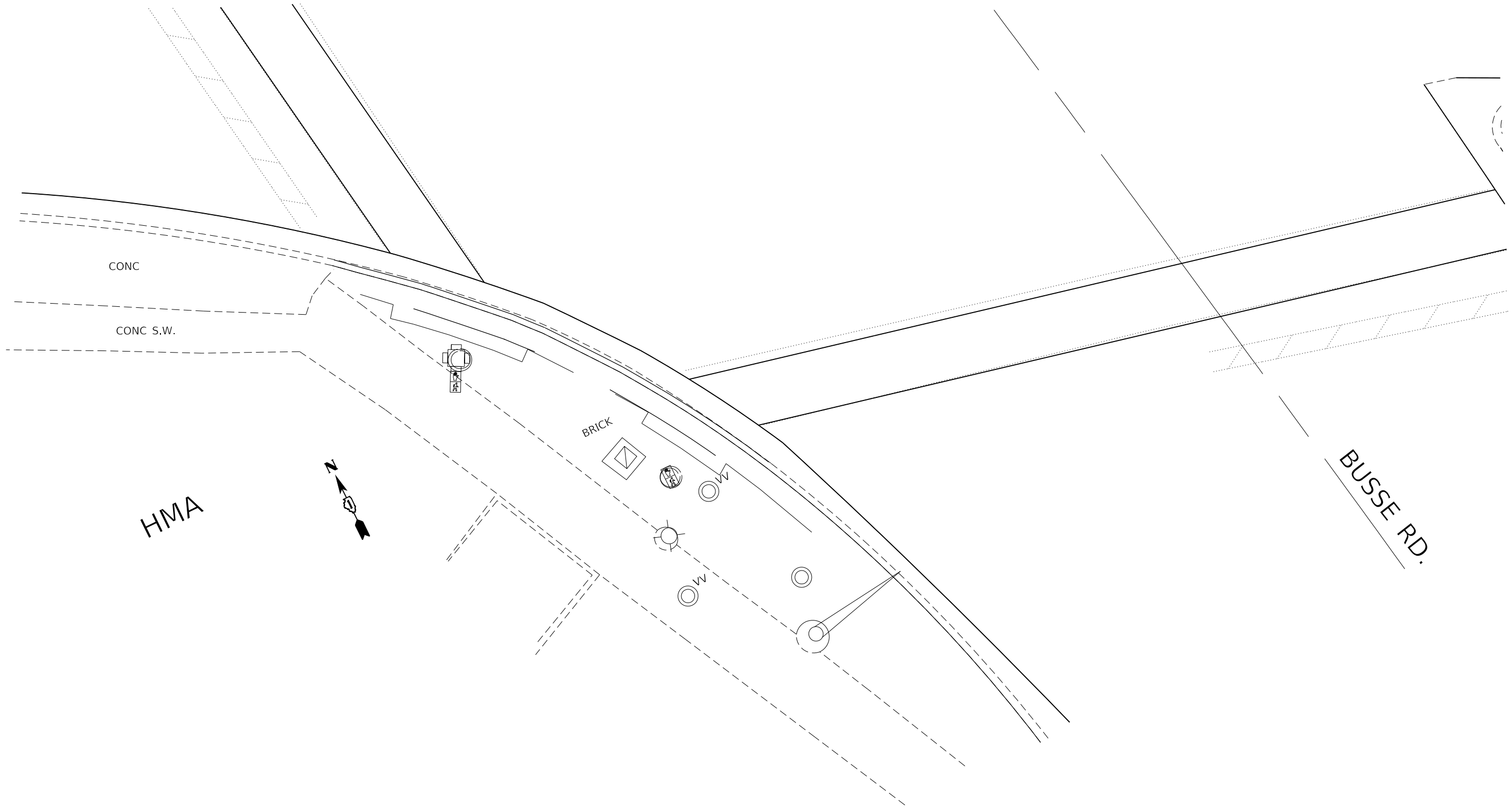
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	40
CONTRACT NO. 62H44				
		ILLINOIS	FED. AID PROJECT	

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REFERENCE BENCHMARK ELEV: 683.12  
 BENCHMARK DESCRIPTION : SQUARE IN N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND BUSSE RD.

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

**S.W. CORNER OF IL-62 (ALGONQUIN ROAD)  
AND BUSSE ROAD**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

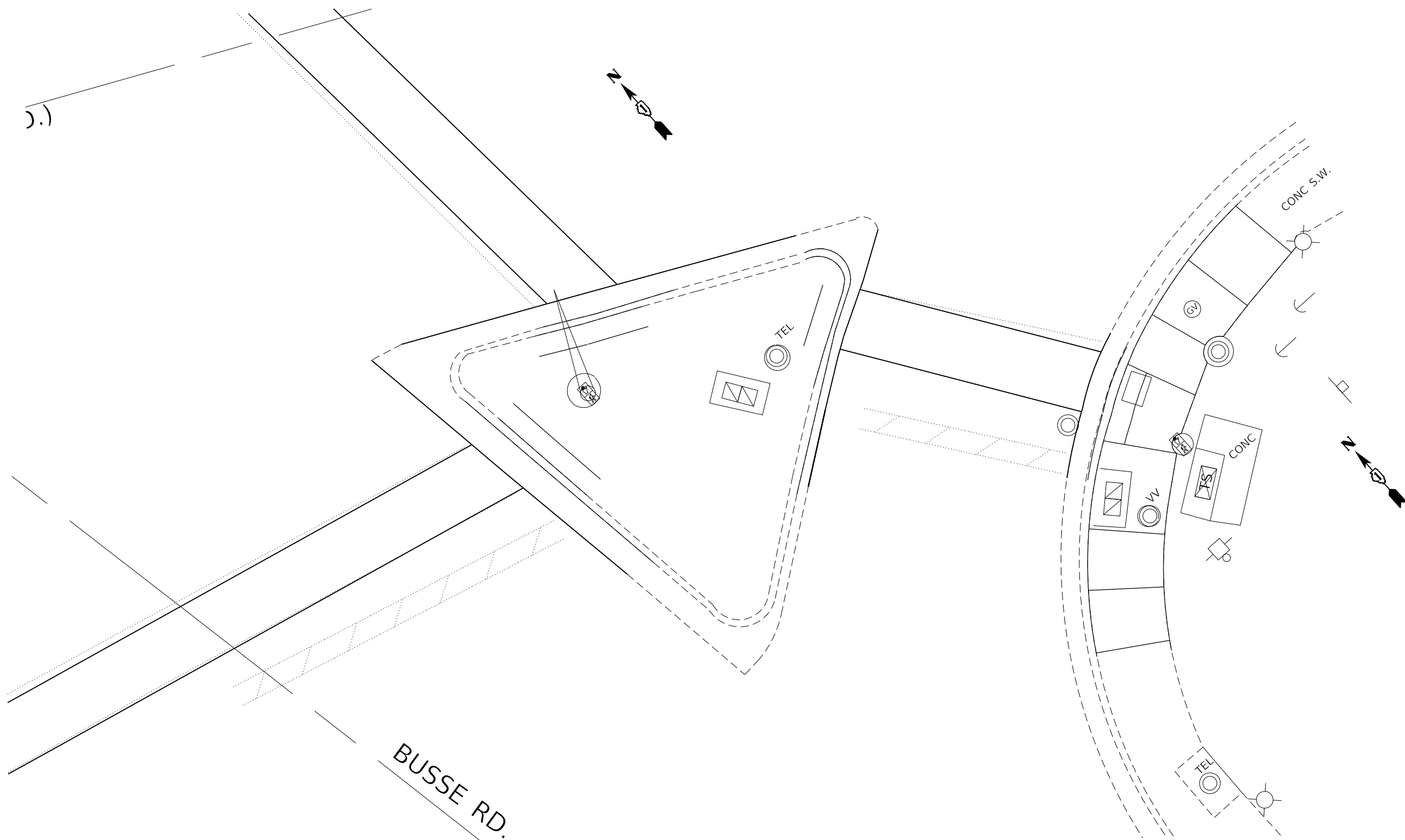
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN  
IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	41
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV: 683.12  
 BENCHMARK DESCRIPTION : SQUARE IN N. CONC. BASE OF LIGHT POLE.  
 BENCHMARK LOCATION : AT S.W. CORNER OF ALGONQUIN RD. AND BUSSE RD.

LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Grey]	PROPOSED SIDEWALK
[Grid Pattern]	DETECTABLE WARNINGS
[Cross-hatch Pattern]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**S.E. CORNER OF IL-62 (ALGONQUIN ROAD)  
 AND BUSSE ROAD, AND PCC CHANNELIZATION GORE**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

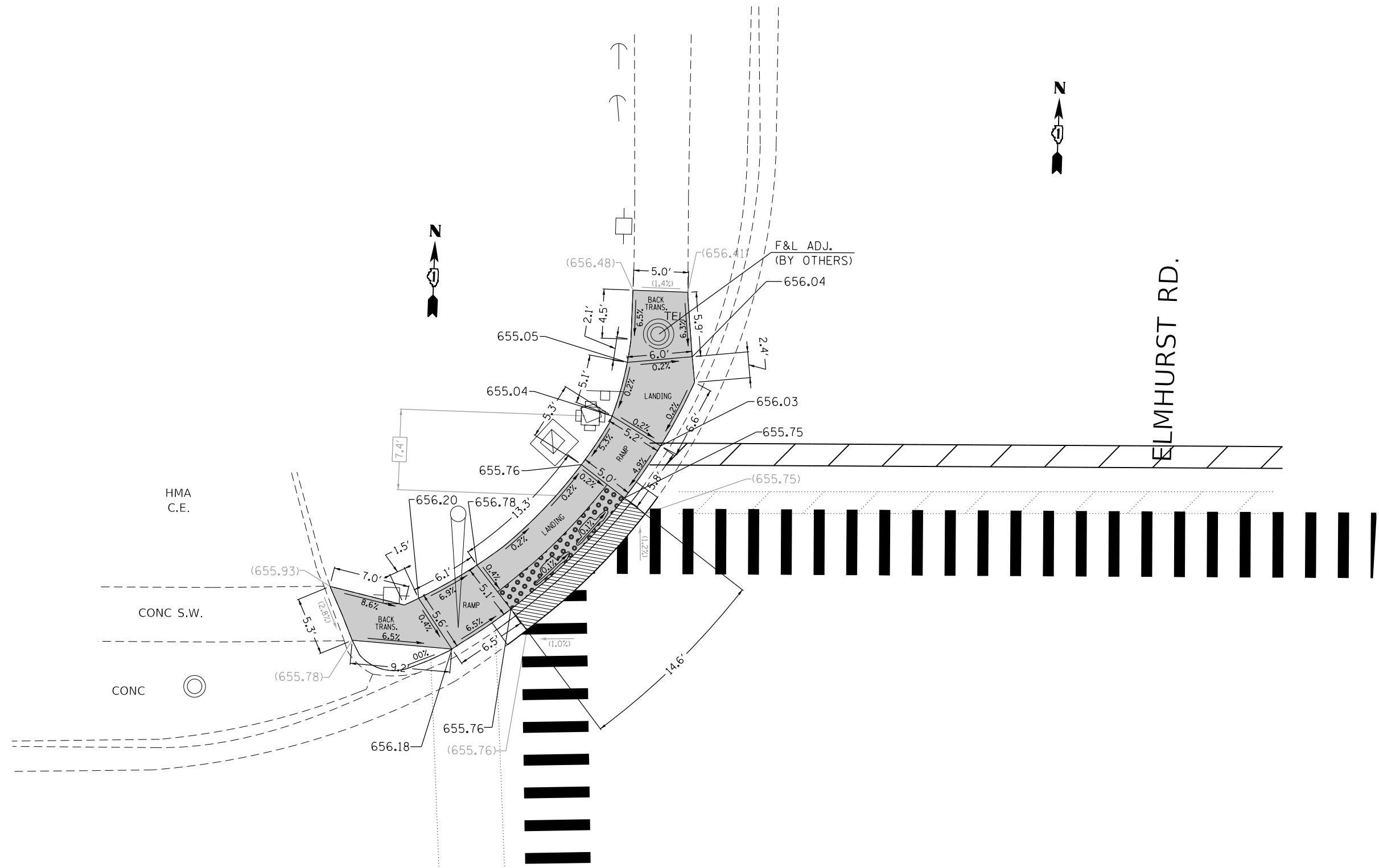
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN          IL 62. - (E. OF IL 58. - IL 83.)</b>		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H44	







REFERENCE BENCHMARK ELEV: 656.99  
 BENCHMARK DESCRIPTION : "X" IN THE S.W. CORNER OF CONC. BASE OF HANDHOLE.  
 BENCHMARK LOCATION : AT S.E. CORNER OF ALGONQUIN RD. AND ELMHURST RD.

**LEGEND**

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

**N.W. CORNER OF IL-62 (ALGONQUIN ROAD) AND IL-83 (ELMHURST ROAD)**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

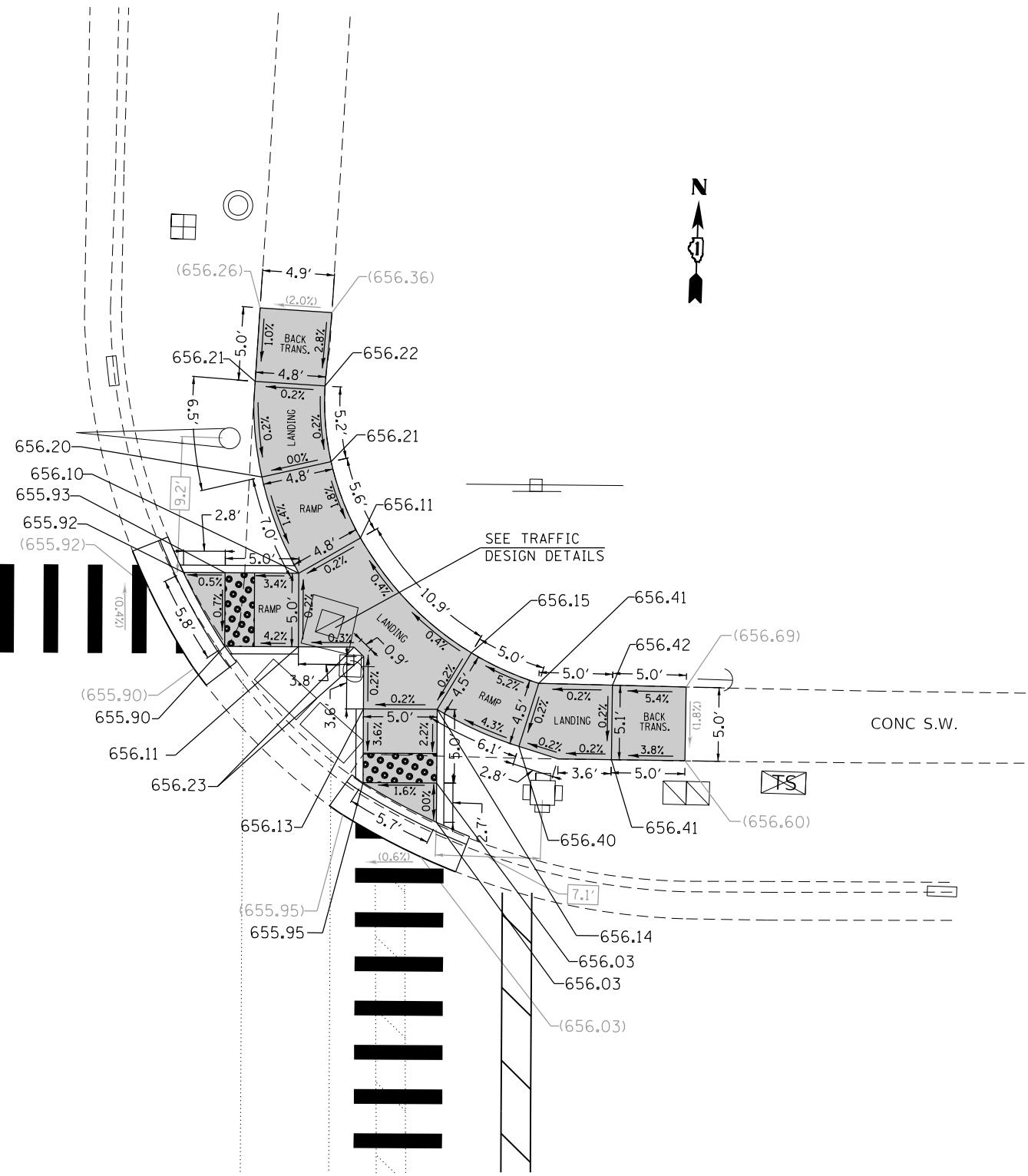
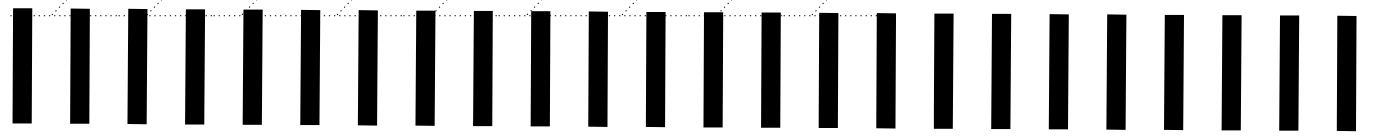
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3514	2018-103-R5&SW	COOK	72	43
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

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ADJ.  
OTHERS)  
56.04

ELMHURST RD.

03  
.75  
.75)



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REFERENCE BENCHMARK ELEV: 656.99  
 BENCHMARK DESCRIPTION : "X" IN THE S.W. CORNER OF CONC. BASE OF HANDHOLE.  
 BENCHMARK LOCATION : AT S.E. CORNER OF ALGONQUIN RD. AND ELMHURST RD.

**LEGEND**

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

**N.E. CORNER OF IL-62 (ALGONQUIN ROAD)  
AND IL-83 (ELMHURST ROAD)**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

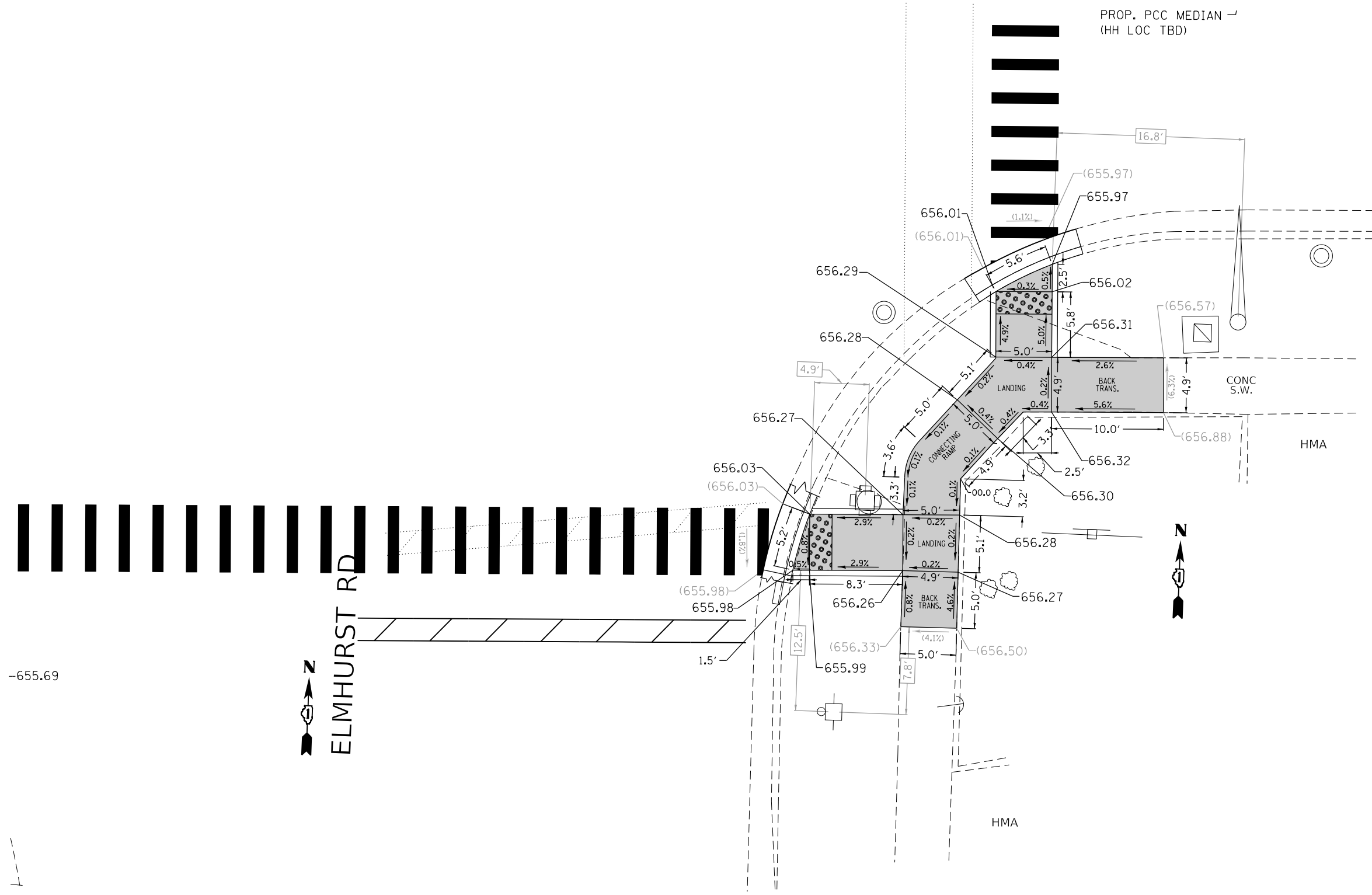
**SIDEWALK DETAIL PLAN  
IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	44
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



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REFERENCE BENCHMARK ELEV: 656.99  
 BENCHMARK DESCRIPTION : "X" IN THE S.W. CORNER OF CONC. BASE OF HANDHOLE.  
 BENCHMARK LOCATION : AT S.E. CORNER OF ALGONQUIN RD. AND ELMHURST RD.

LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Gray Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**S.E. CORNER OF IL-62 (ALGONQUIN ROAD)  
 AND IL-83 (ELMHURST ROAD)**

USER NAME = paraynoal	DESIGNED - PLP 10/04/2016	REVISED - PLP 11/07/2016
	DRAWN - PLP 10/04/2016	REVISED - PLP 08/11/2017
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED - PLP 09/14/2017
PLOT DATE = 3/16/2019	DATE -	REVISED - PLP 01/10/2018

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

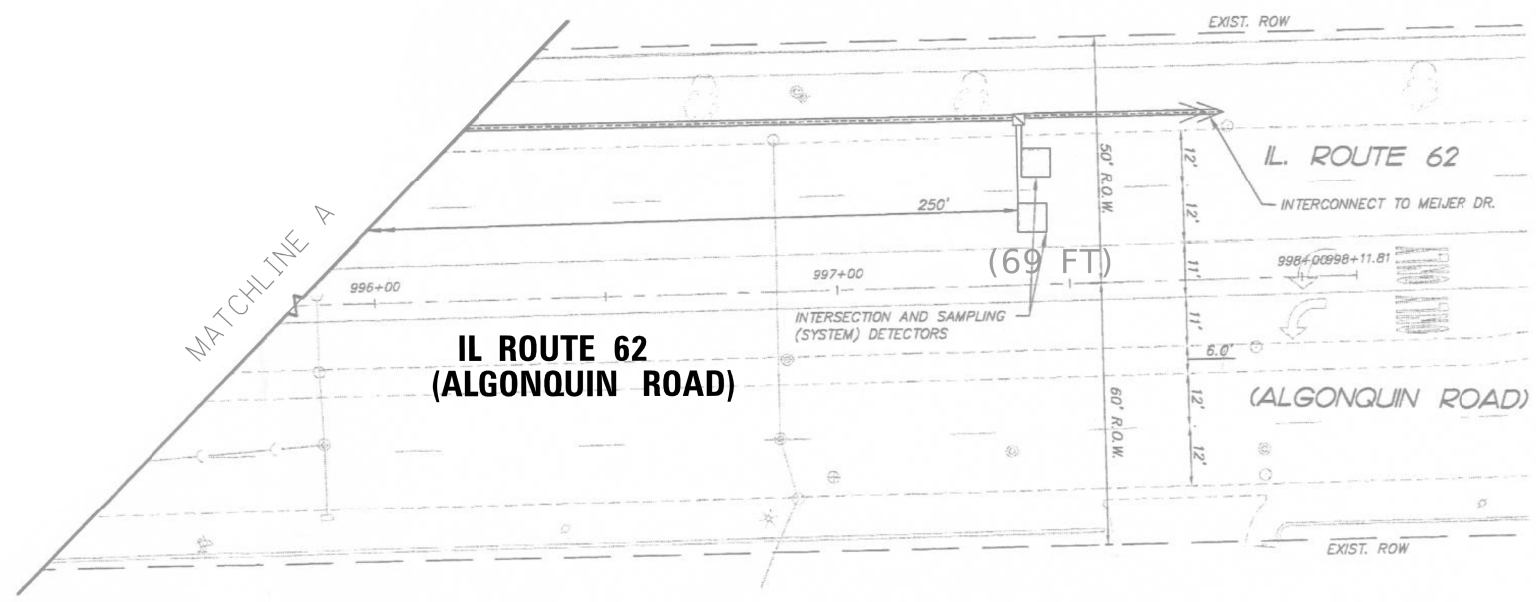
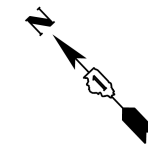
**SIDEWALK DETAIL PLAN  
 IL 62. - (E. OF IL 58. - IL 83.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	46
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

**NOTES:**

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



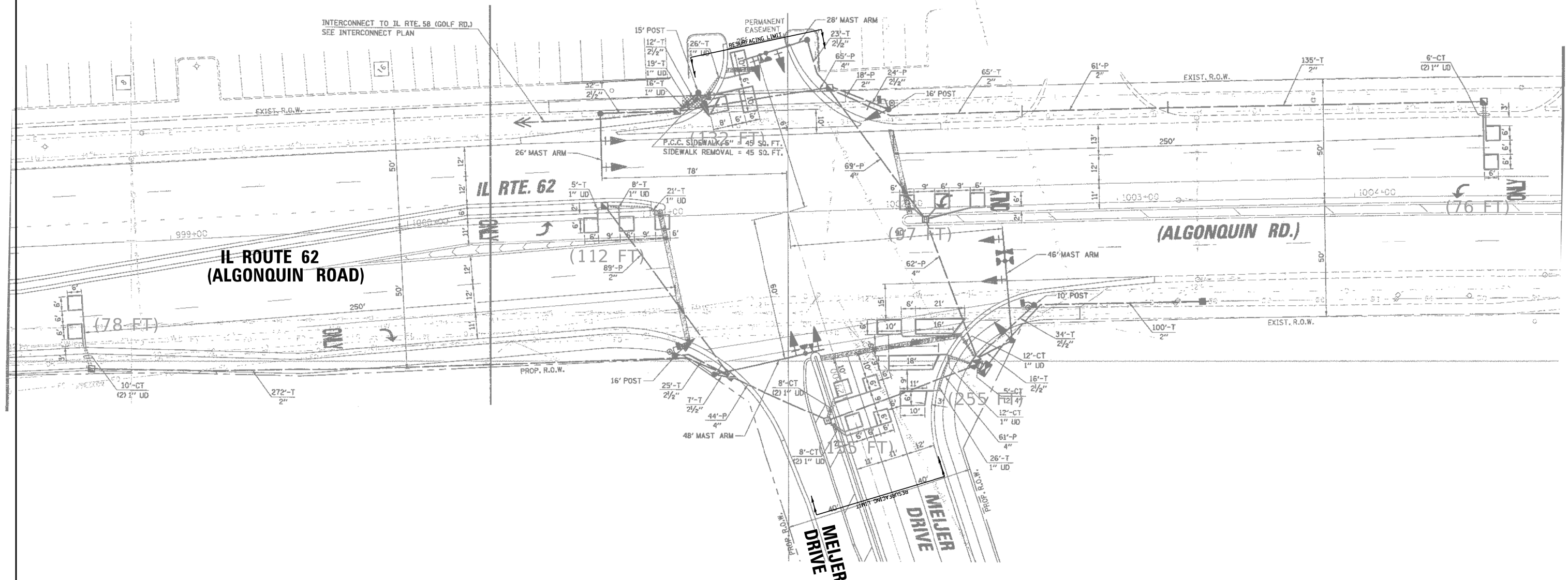
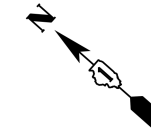
**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	69	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\JJ\Detector Loops Project	S2H44\Detector loop project . Main CADD.dgn	DRAWN - JJ	REVISED -			3514	2018-103-RS&RW	COOK	72	47	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -			ILLINOIS FED. AID PROJECT					
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -			SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____			

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	905	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project - Main CADD.dgn		DRAWN - JJ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

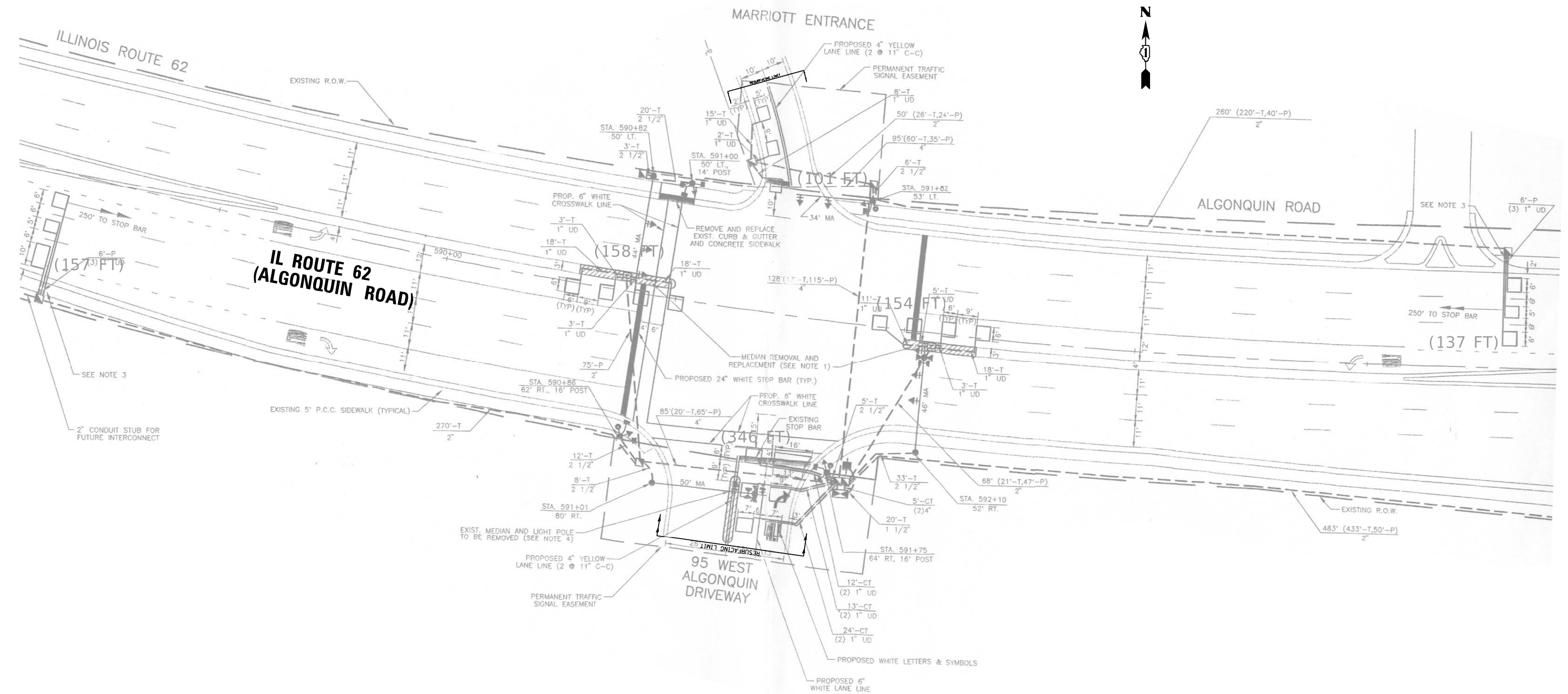
**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	48
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



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

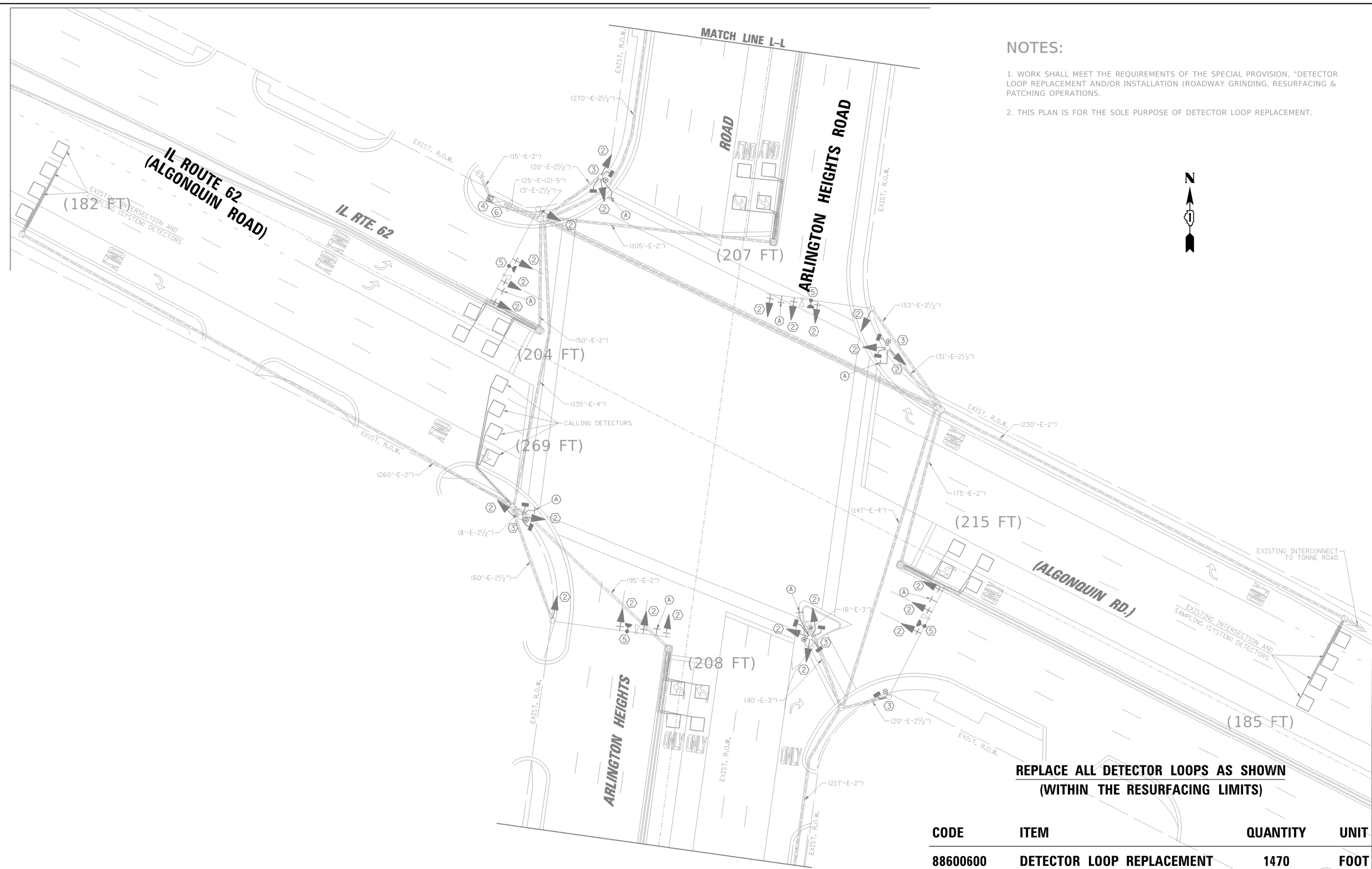
CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	1053	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project - Main CADD.dgn	DRAWN - JJ	REVISED -	3514			2018-103-RS&RW	COOK	72	49	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -			CONTRACT NO. 62H44				
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____										



**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	1470	FOOT

FILE NAME =	USER NAME = jiang	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -			3514	2018-103-RS&RW	COOK	72	50	
Default		PLOT SCALE = 40.0000' / in.	REVISED -			CONTRACT NO. 62H44					
		PLOT DATE = 1/31/2019	REVISED -			ILLINOIS FED. AID PROJECT					

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	358	FOOT

FILE NAME =	USER NAME = jiang	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

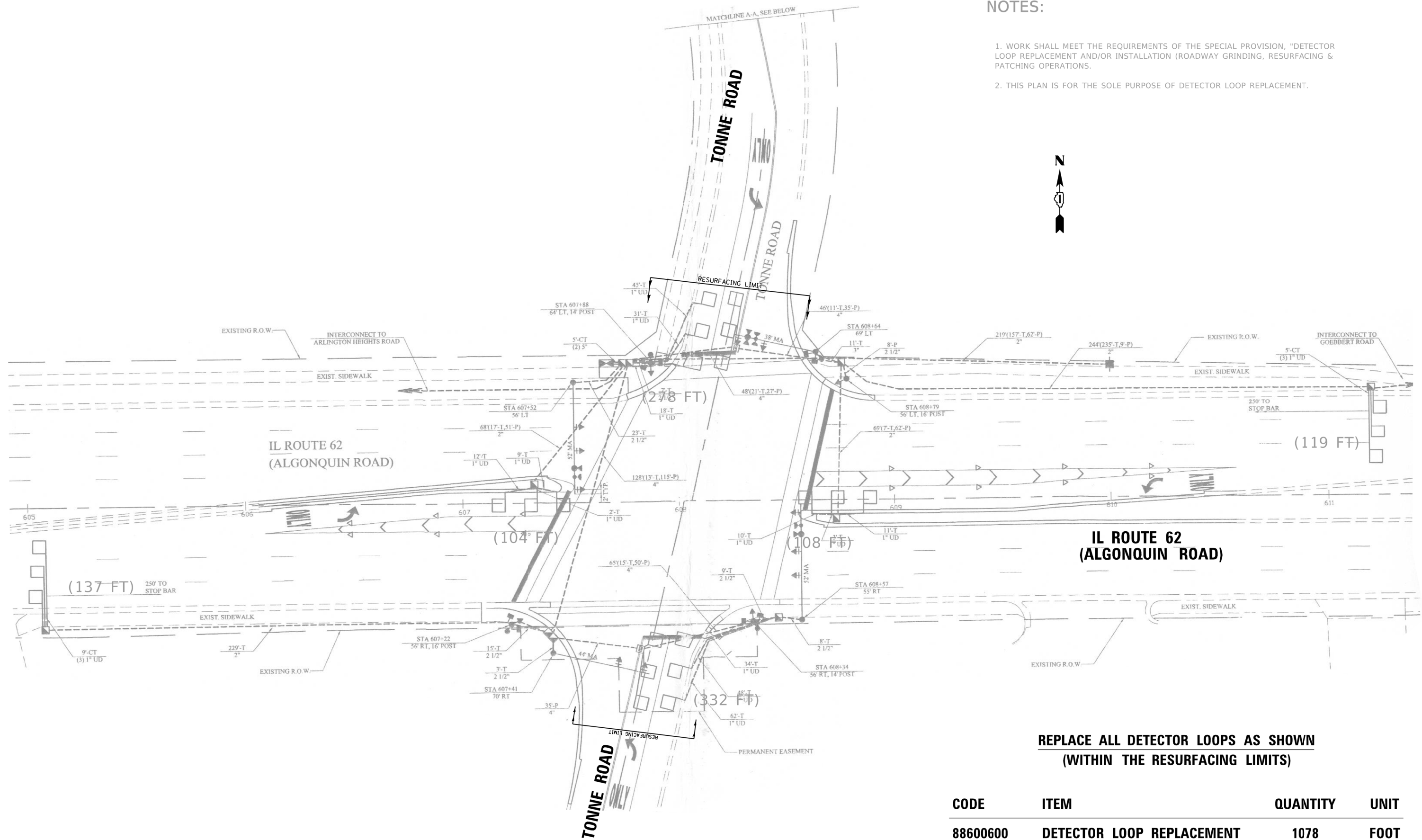
**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	51
			CONTRACT NO. 62H44	
ILLINOIS FED. AID PROJECT				

**NOTES:**

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

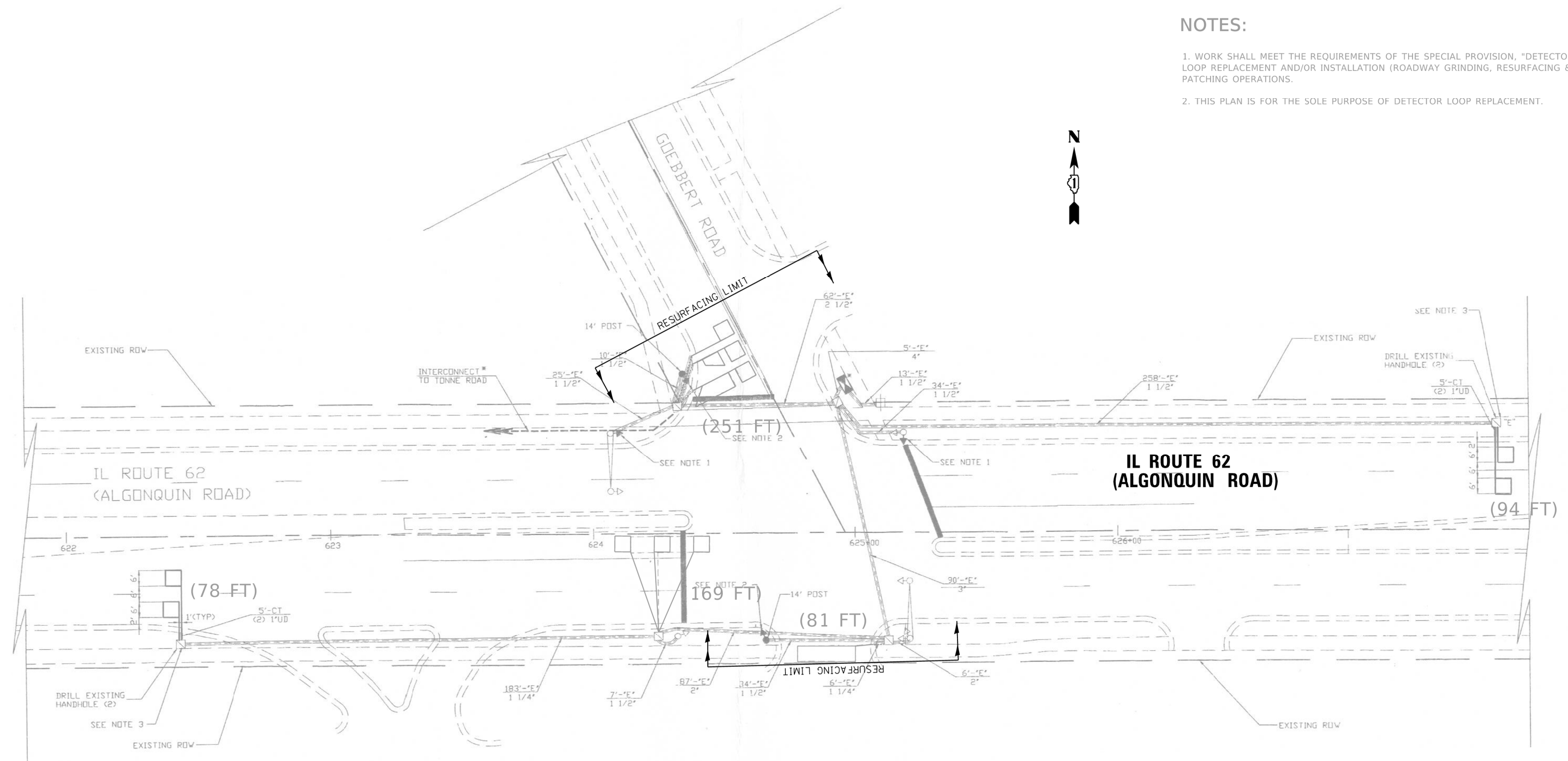


CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	1078	FOOT

FILE NAME = S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE. 3514	SECTION 2018-103-RS&RW	COUNTY COOK	TOTAL SHEETS 72	SHEET NO. 52	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -			SCALE: _____ SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 62H44		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -								

**NOTES:**

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



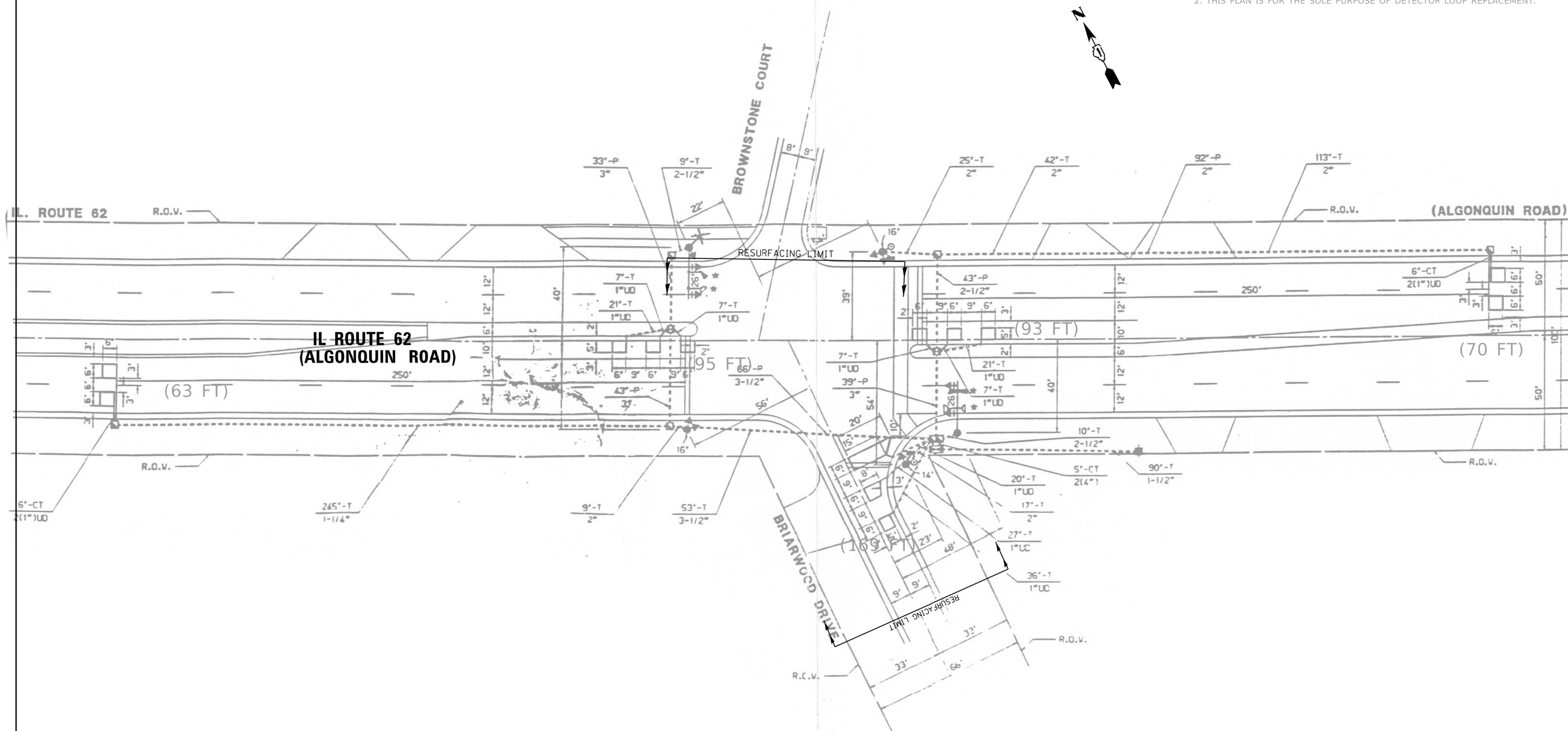
**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	673	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn	PLOT SCALE = 40.0000 ' / in.	DRAWN - JJ	REVISED -			3514	2018-103-RS&RW	COOK	72	53	
Default	PLOT DATE = 1/31/2019	CHECKED - SG	REVISED -			CONTRACT NO. 62H44					
		DATE - 1/31/2019	REVISED -			ILLINOIS FED. AID PROJECT					

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	490	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project - Main CADD.dgn		DRAWN - JJ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

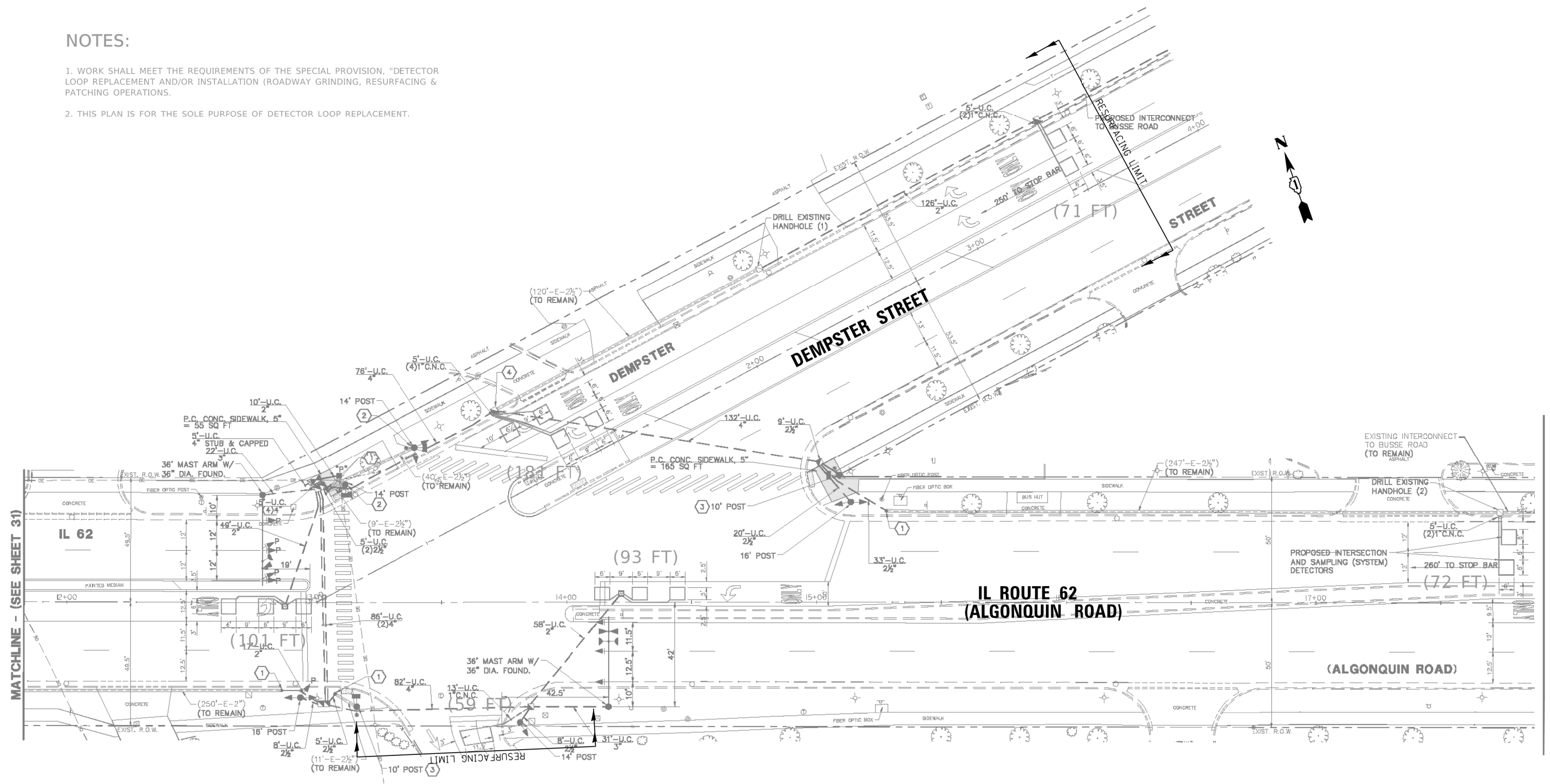
**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	54
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	577	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

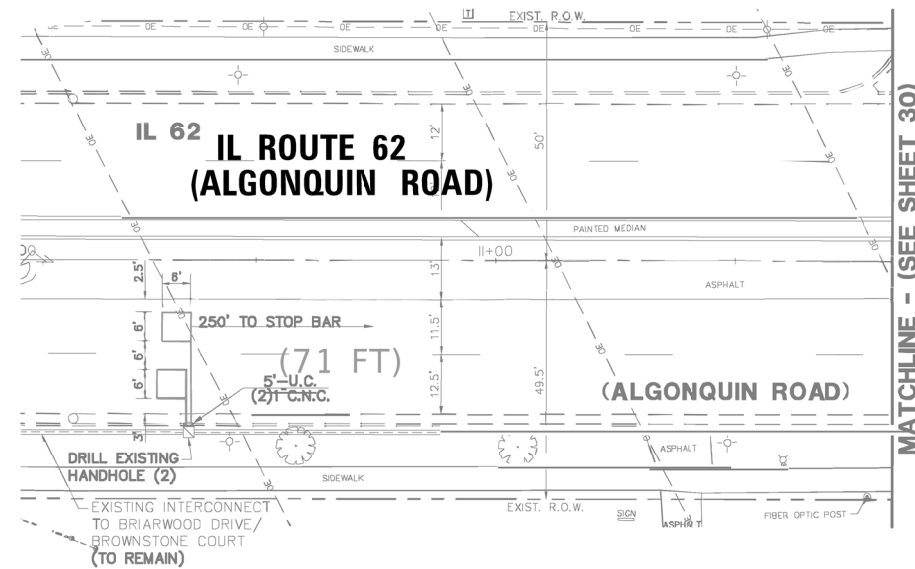
**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	55
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

**NOTES:**

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



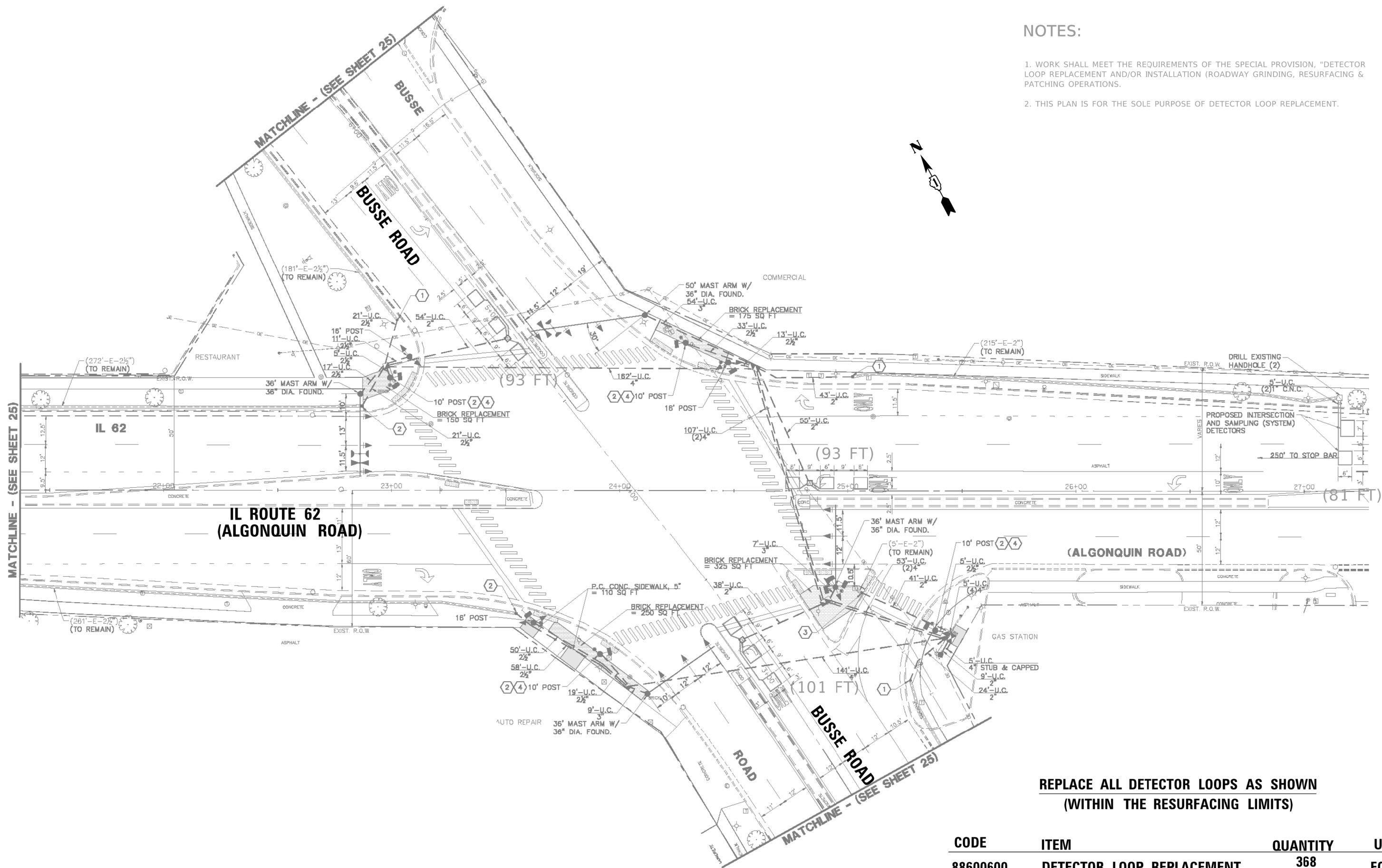
**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	71	FOOT

FILE NAME = S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE. 3514	SECTION 2018-103-RS&RW	COUNTY COOK	TOTAL SHEETS 72	SHEET NO. 56	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -			SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -								

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	368	FOOT

FILE NAME =	USER NAME = jiang	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -
Default		CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

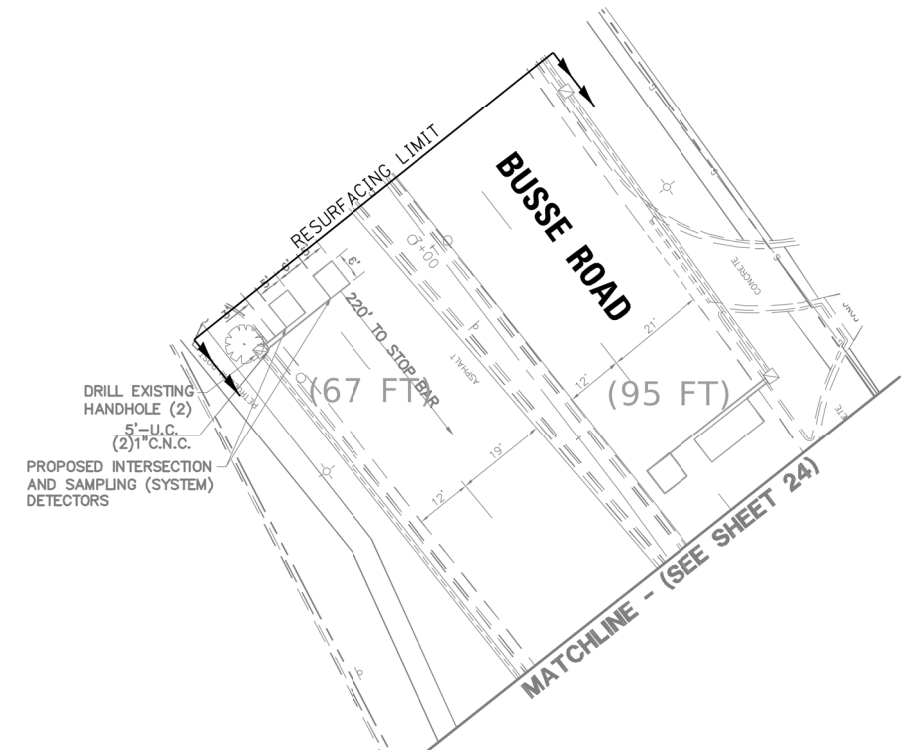
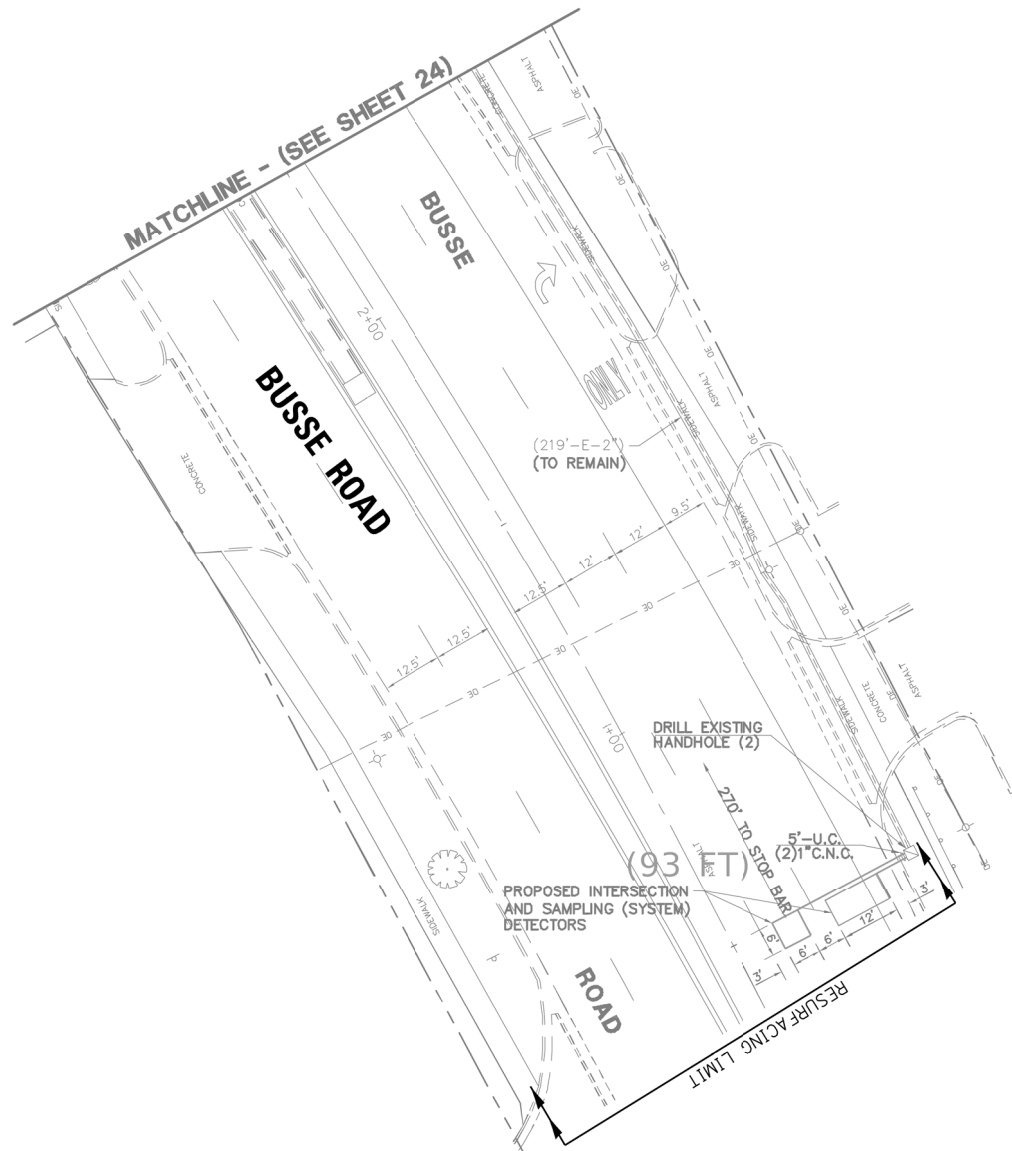
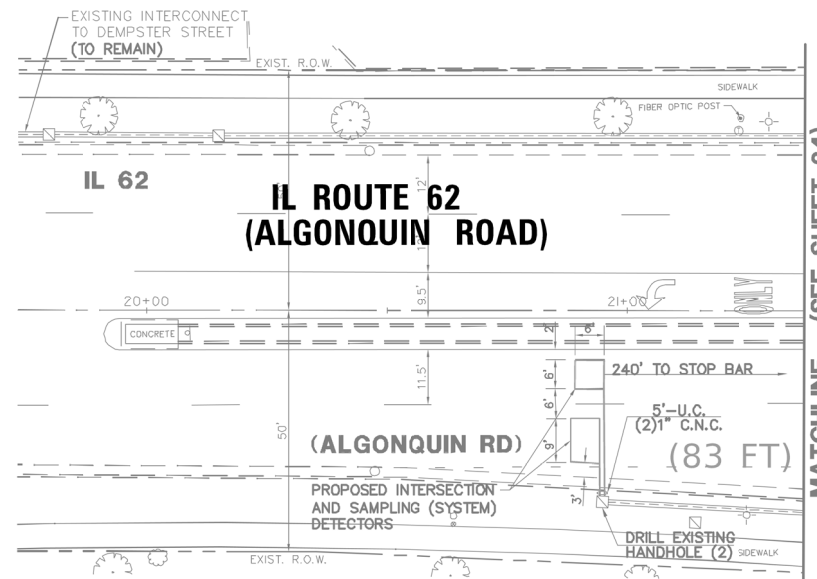
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	57
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				



**NOTES:**

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



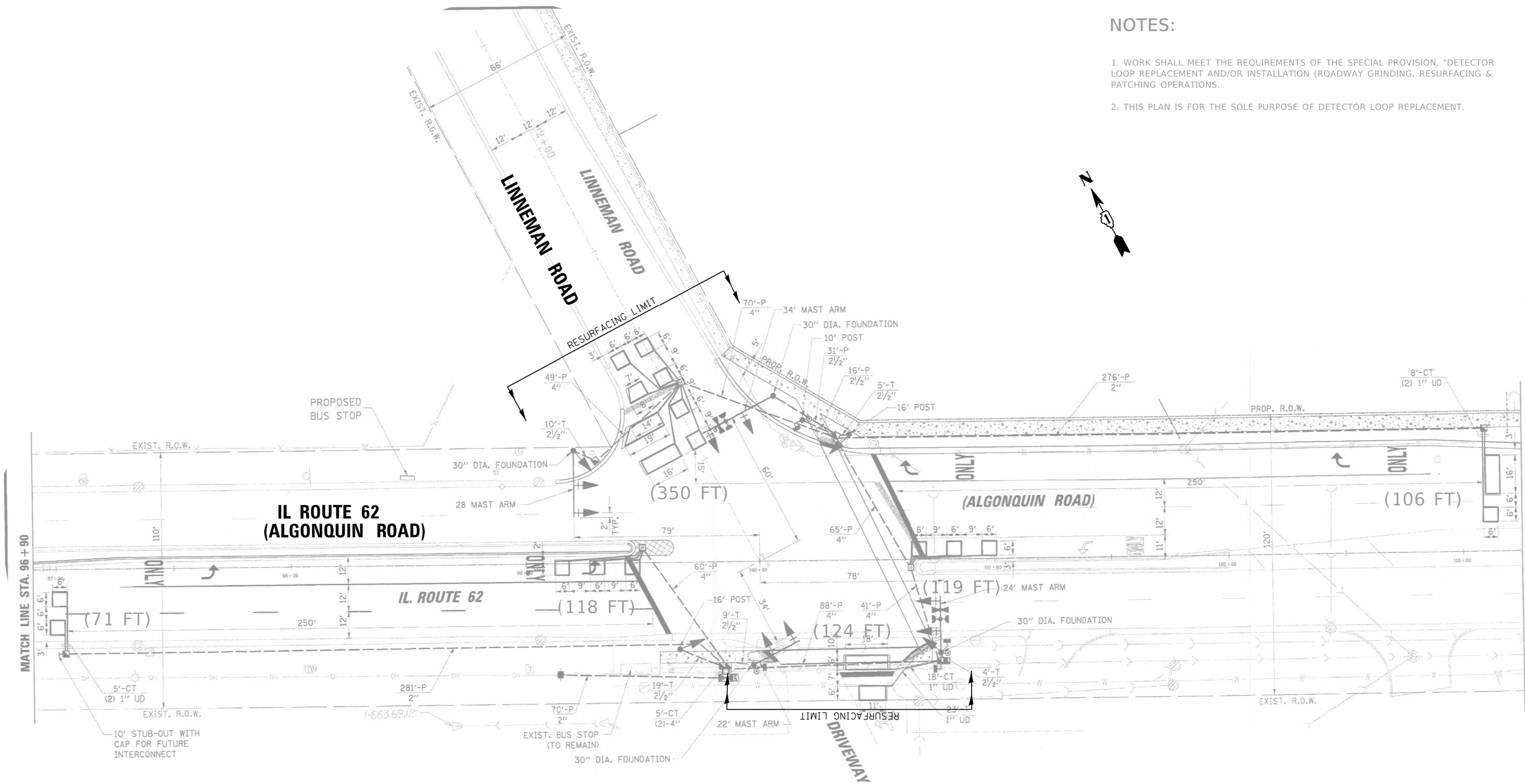
**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	338	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -			3514	2018-103-RS&RW	COOK	72	58	
Default		CHECKED - SG	REVISED -			CONTRACT NO. 62H44					
		DATE - 1/31/2019	REVISED -			ILLINOIS FED. AID PROJECT					

**NOTES:**

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	888	FOOT

FILE NAME =	USER NAME = jiangj	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

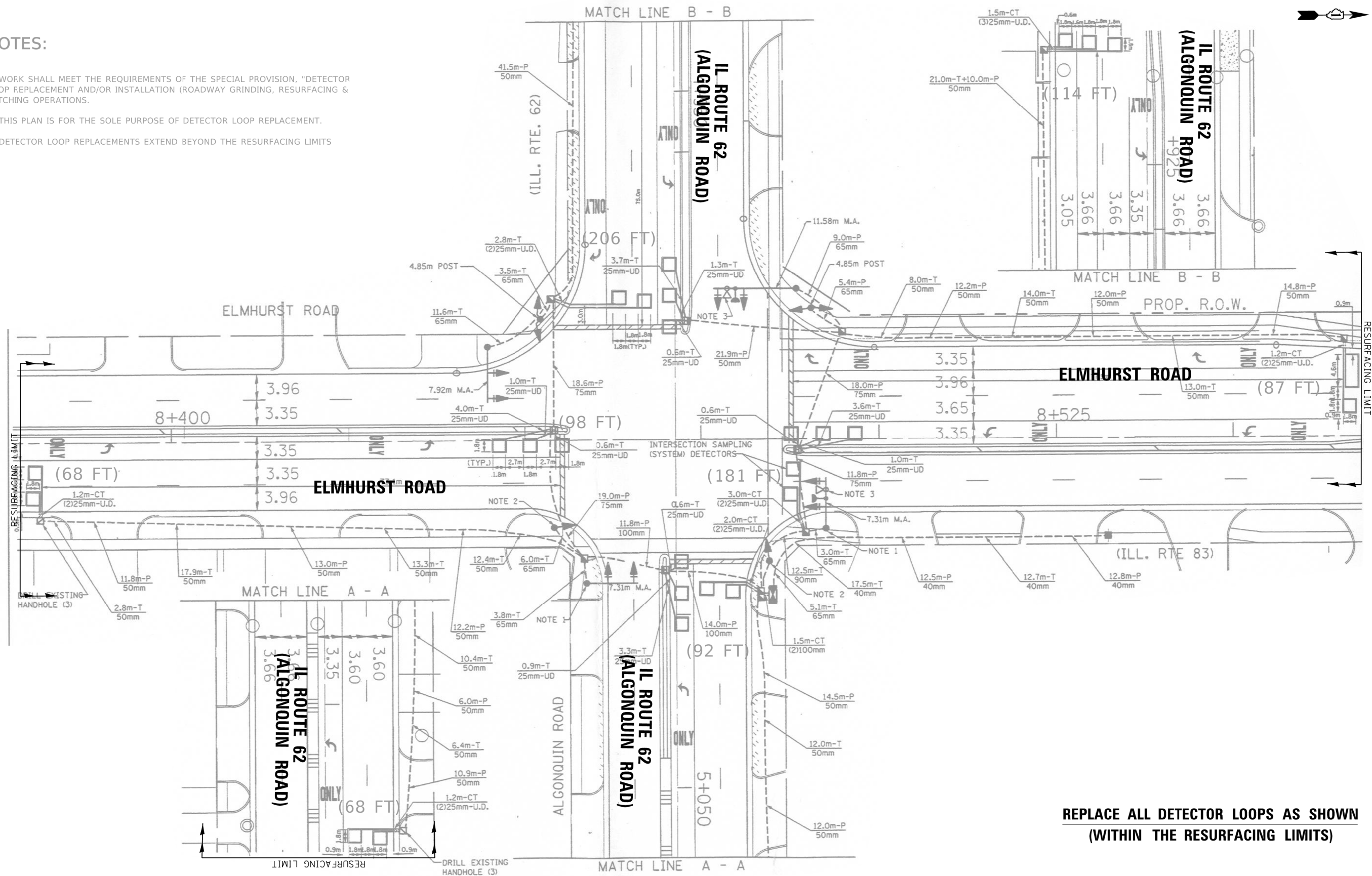
**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	59
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

**NOTES:**

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



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

CODE	ITEM	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	914 FOOT

FILE NAME =	USER NAME = jiang	DESIGNED - JJ	REVISED -
S:\WP\Design\JJ\Detector Loops Project\62H44\Detector loop project . Main CADD.dgn		DRAWN - JJ	REVISED -
Default		CHECKED - SG	REVISED -
	PLOT DATE = 1/31/2019	DATE - 1/31/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
IL. ROUTE 62 (IL. 58 (GOLF RD.) - IL. 83 (ELMHURST RD.))**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&RW	COOK	72	60
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

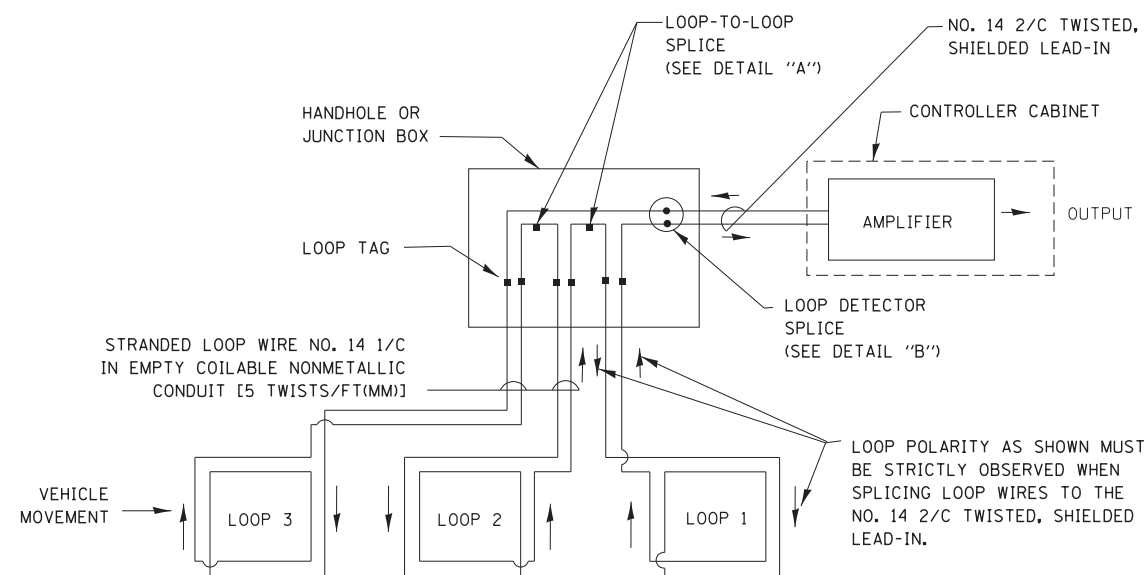
# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

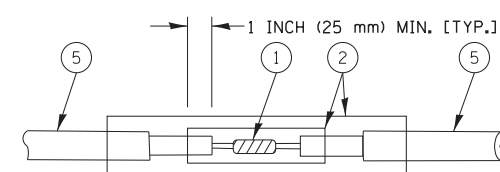
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

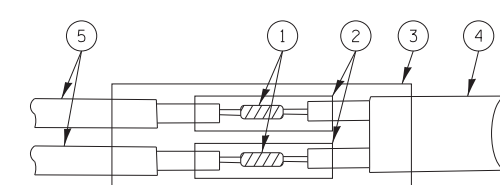


**DETECTOR LOOP WIRING SCHEMATIC**

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

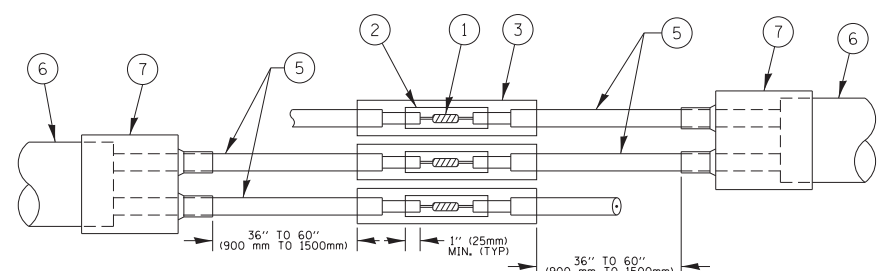


DETAIL "A"  
LOOP-TO-LOOP SPLICE

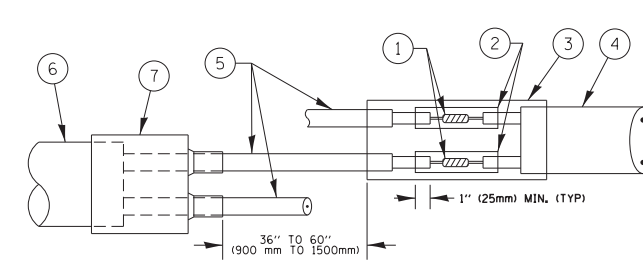


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



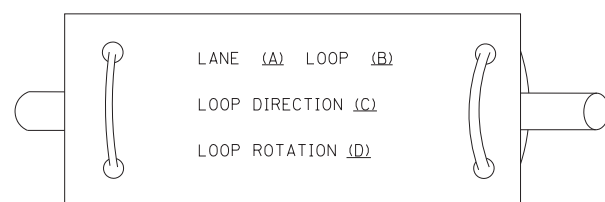
DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP LEAD-IN CABLE TAG**



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

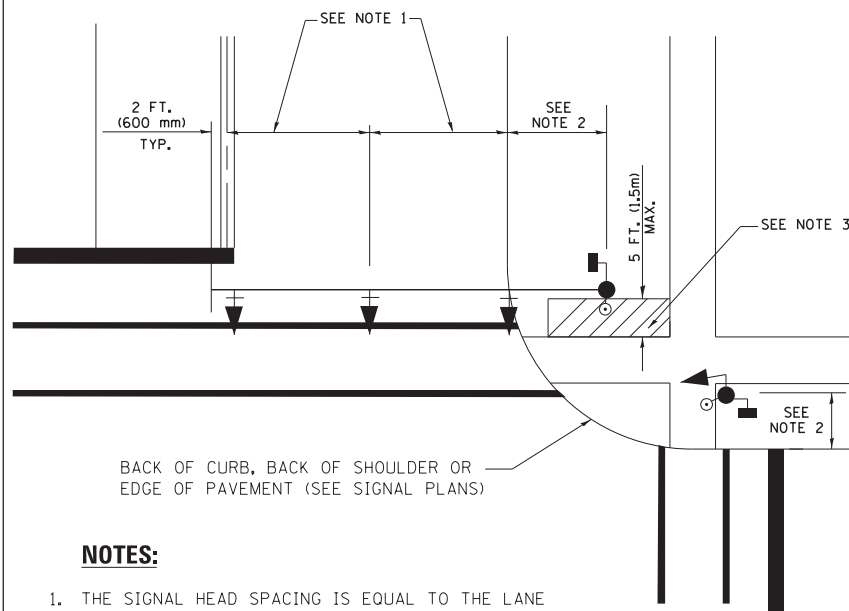
**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		F.A.U. RTE. 3514	SECTION 2018-103-RS&SW	COUNTY COOK	TOTAL SHEETS 72	SHEET NO. 60B	
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	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									



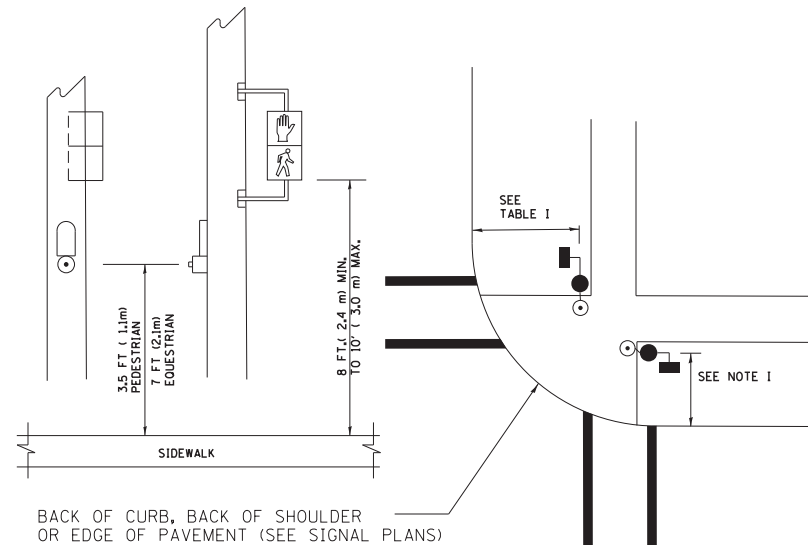
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

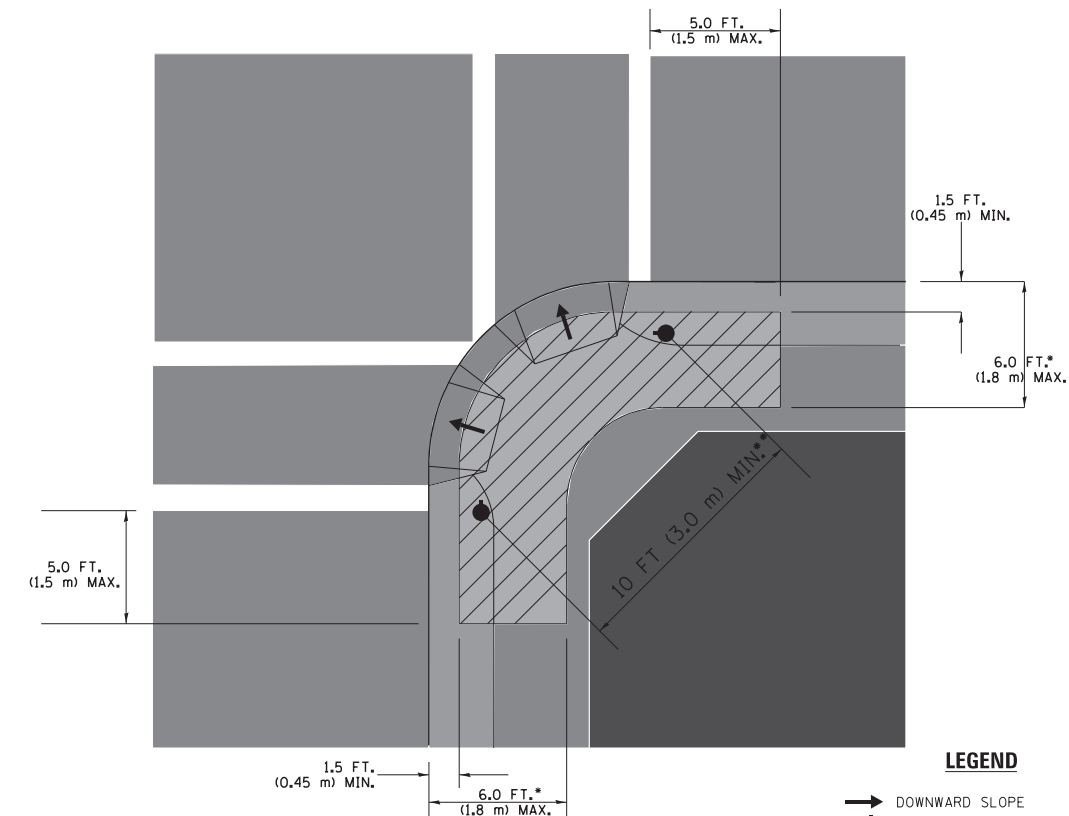
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

**NOTES:**

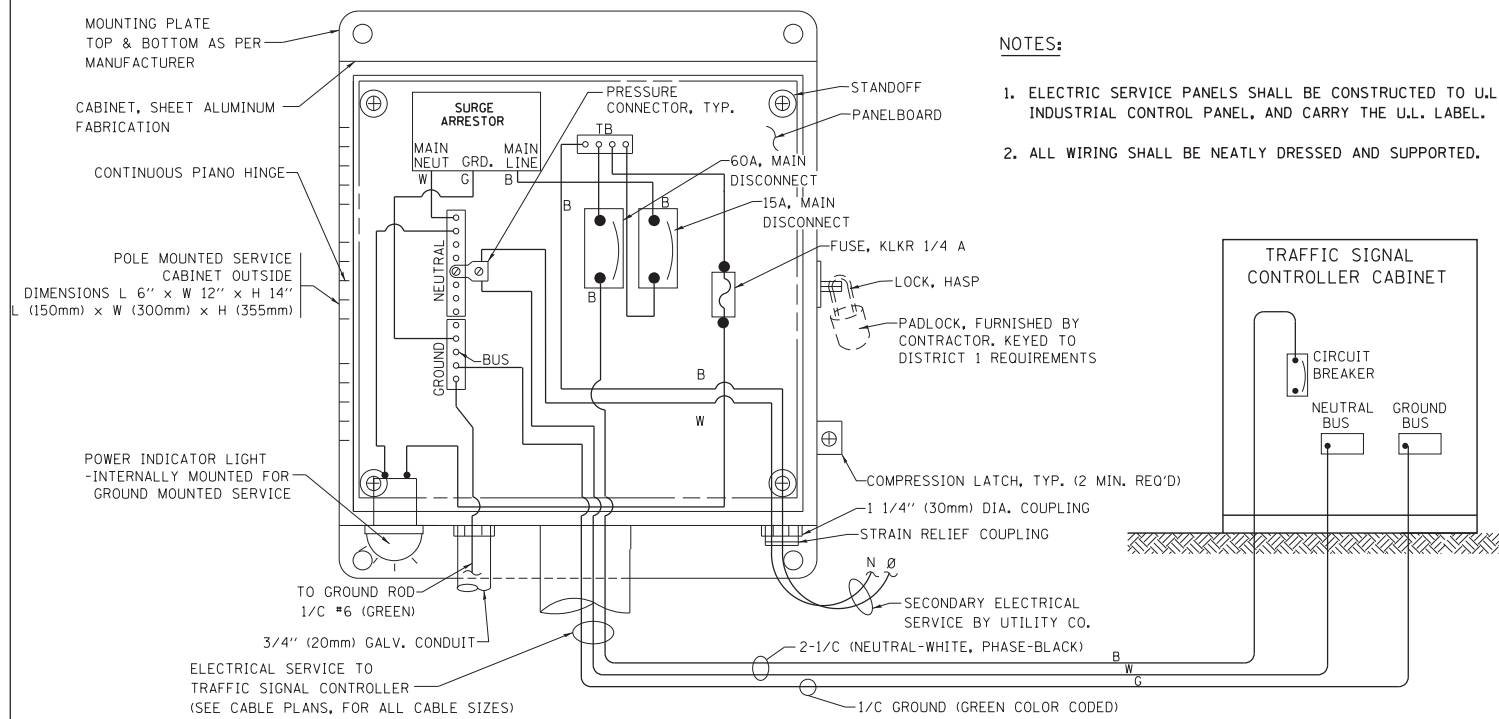
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

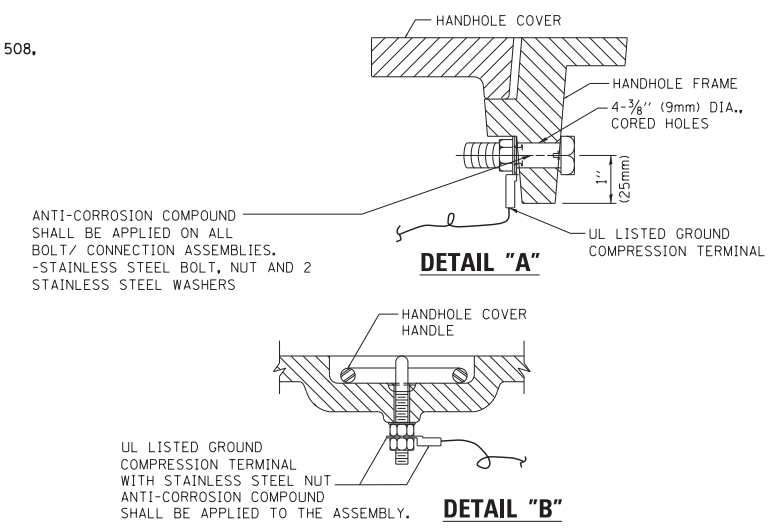
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

**NOTES:**

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

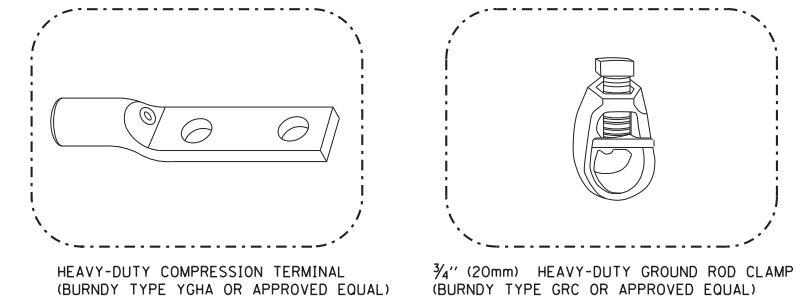
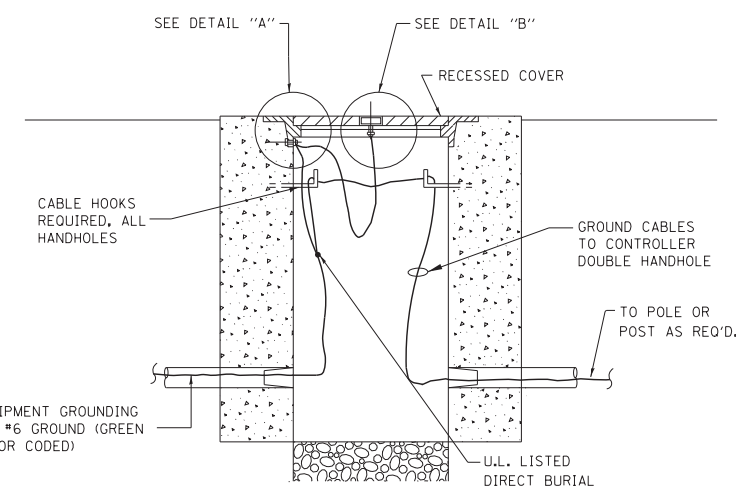


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



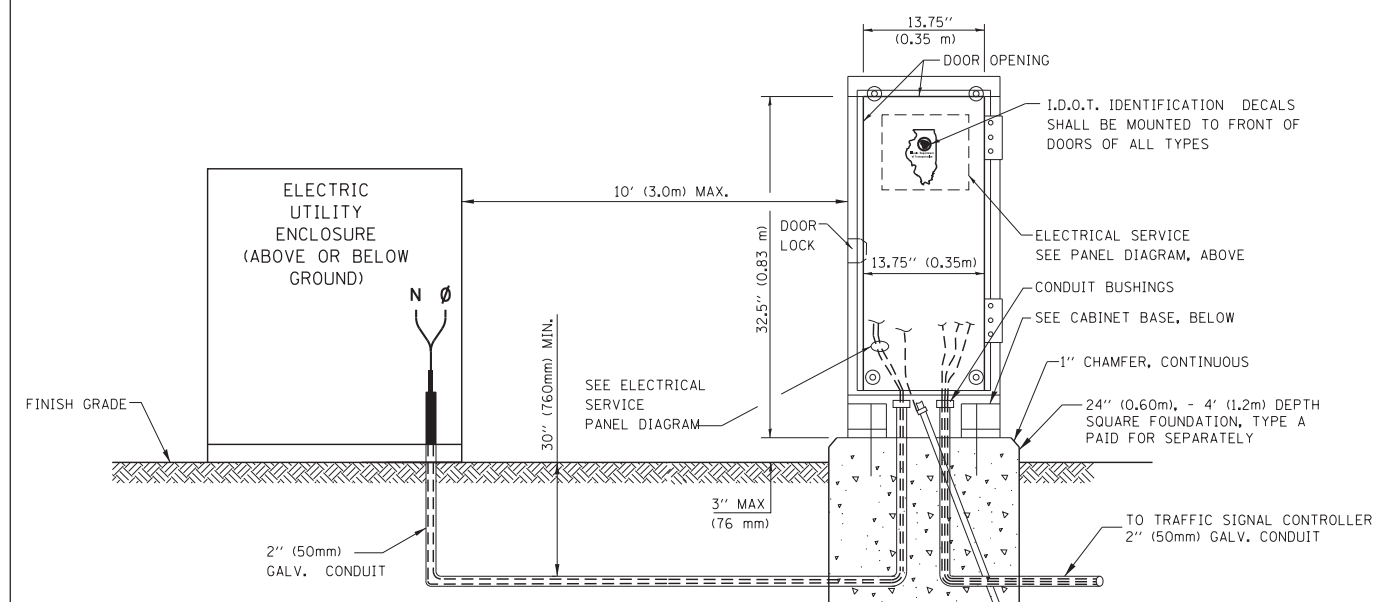
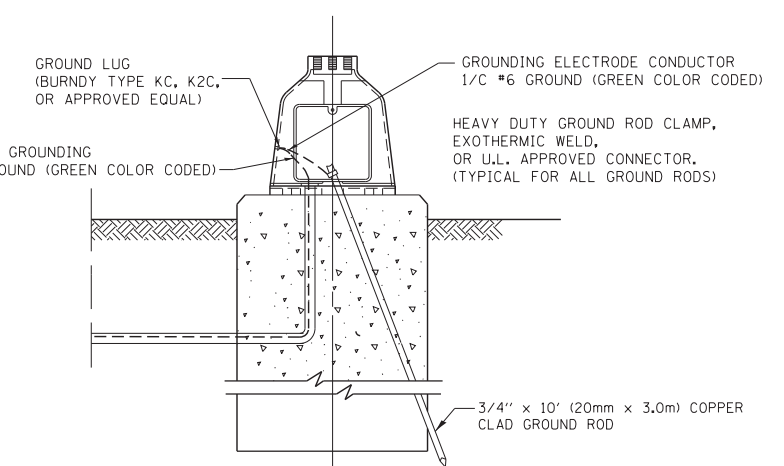
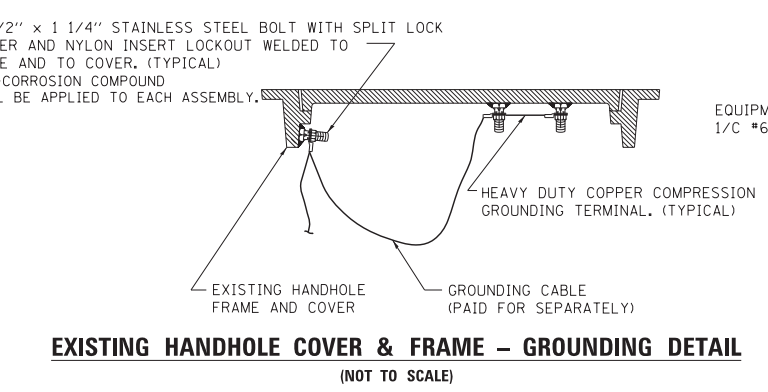
**NOTES:**  
**GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



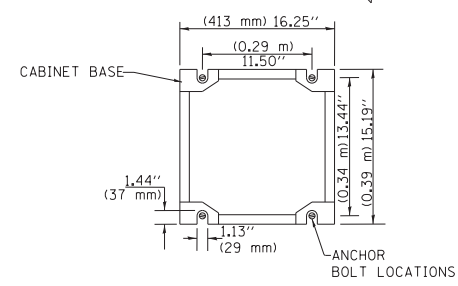
**NOTES:**

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



**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**

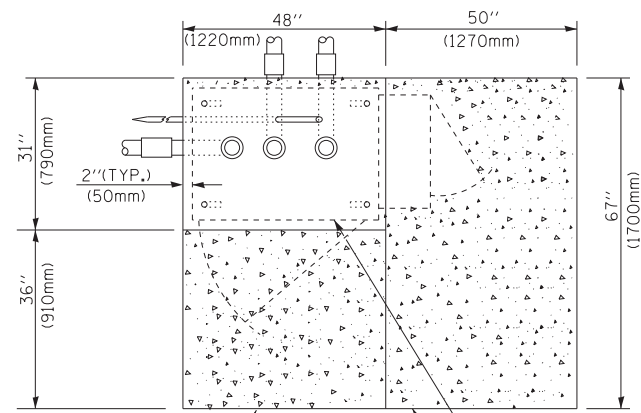


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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

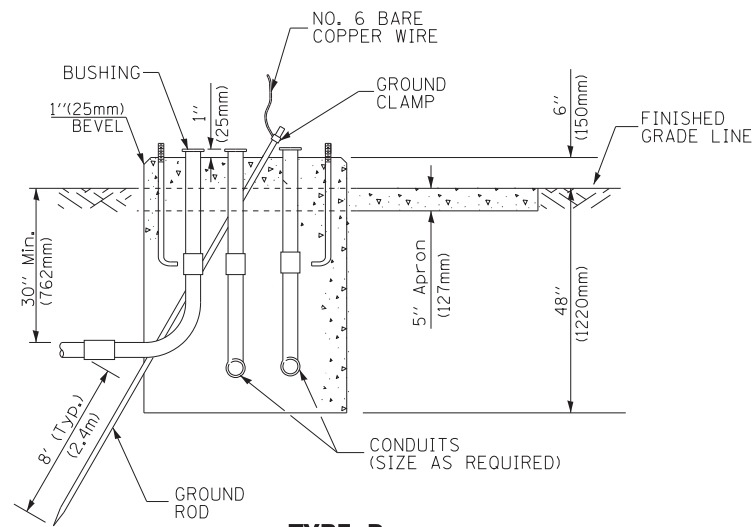
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

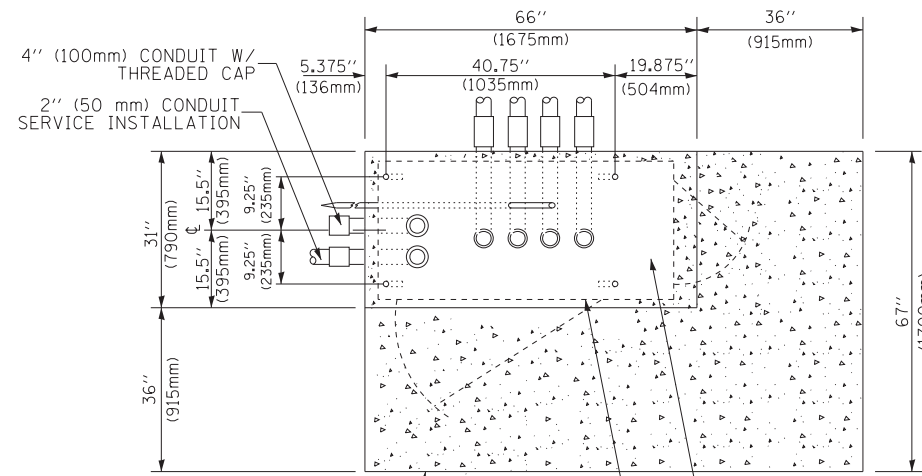
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<b>TS-05</b>		CONTRACT NO. 62H44		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TOP VIEW**



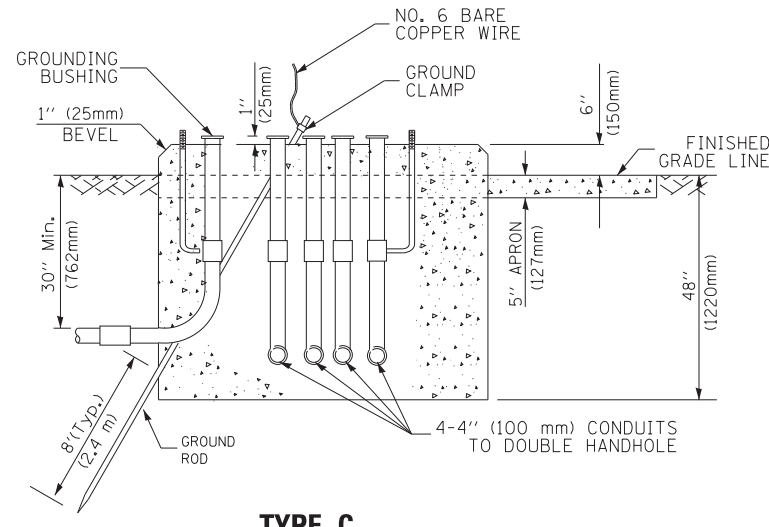
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



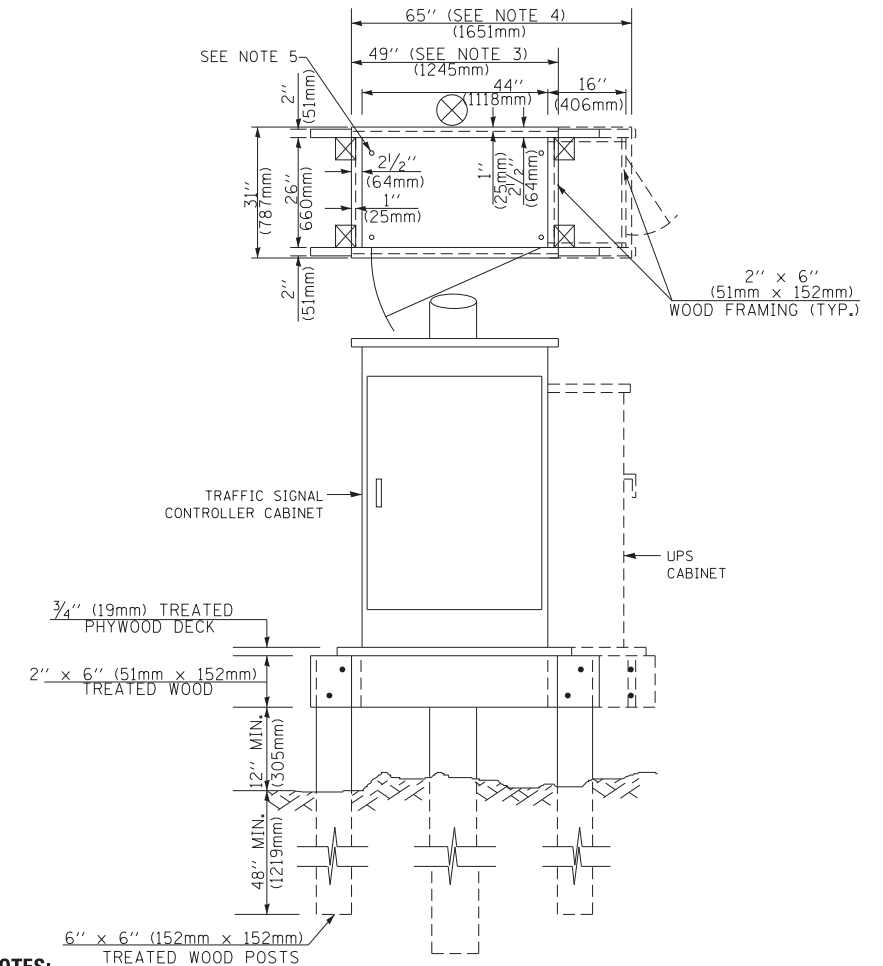
**TOP VIEW**

**NOTE:**

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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

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

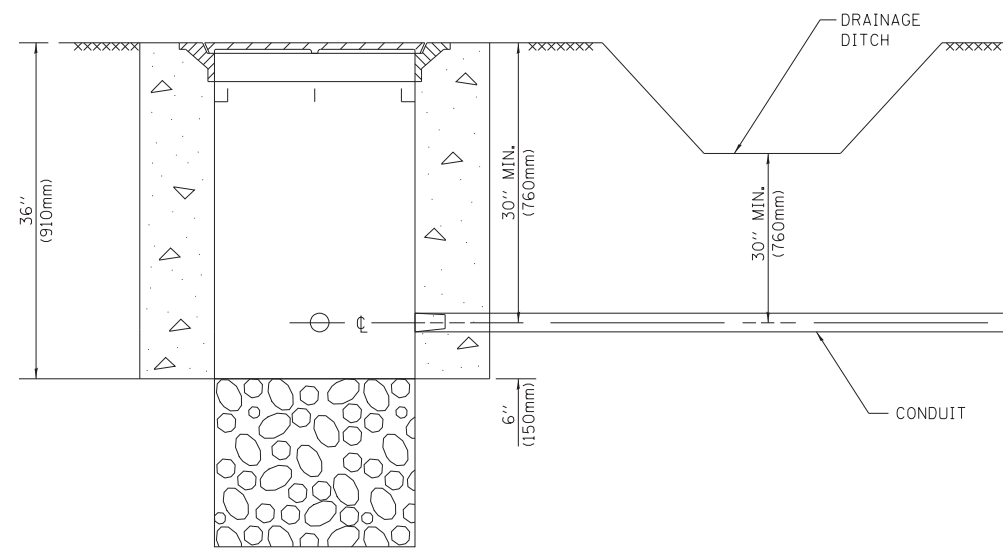
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60E
TS-05		CONTRACT NO. 62H44		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

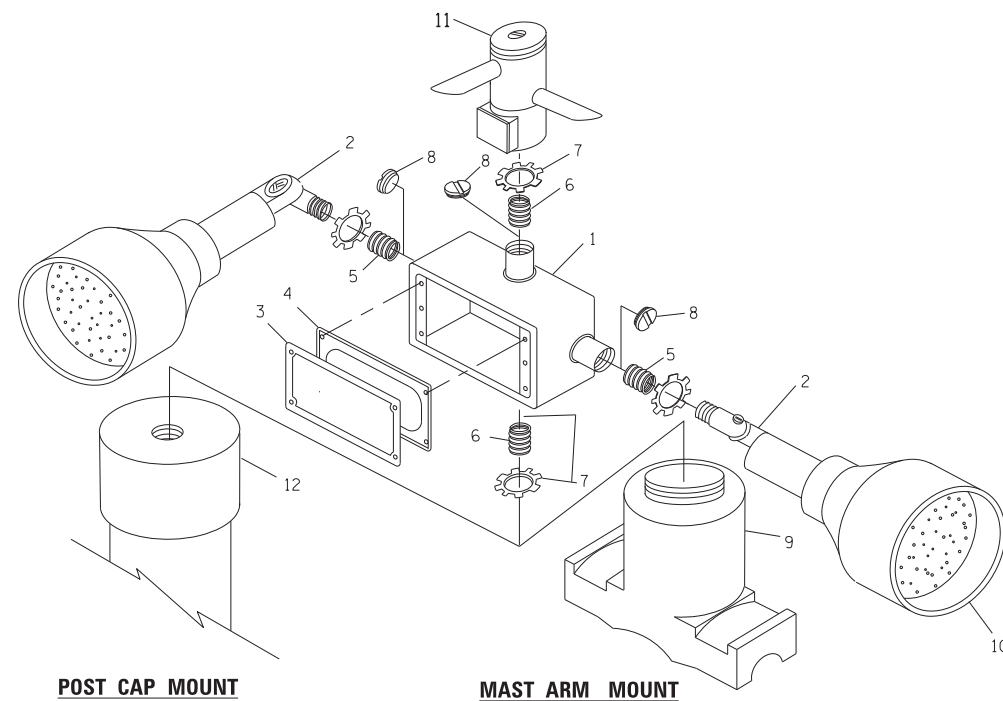




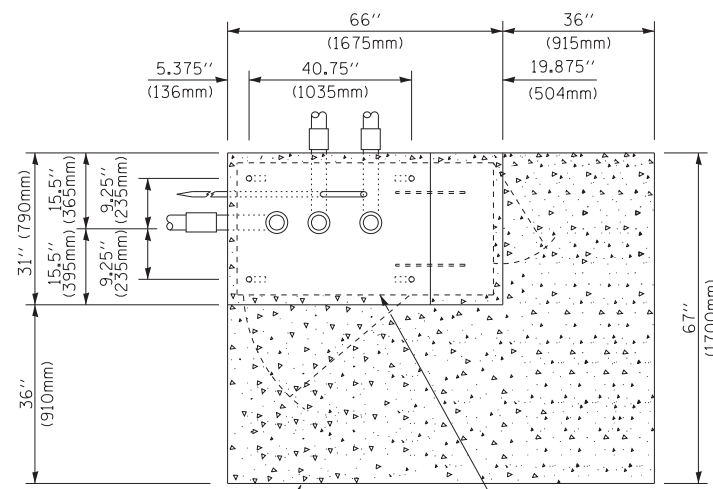
**NOTES:**

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

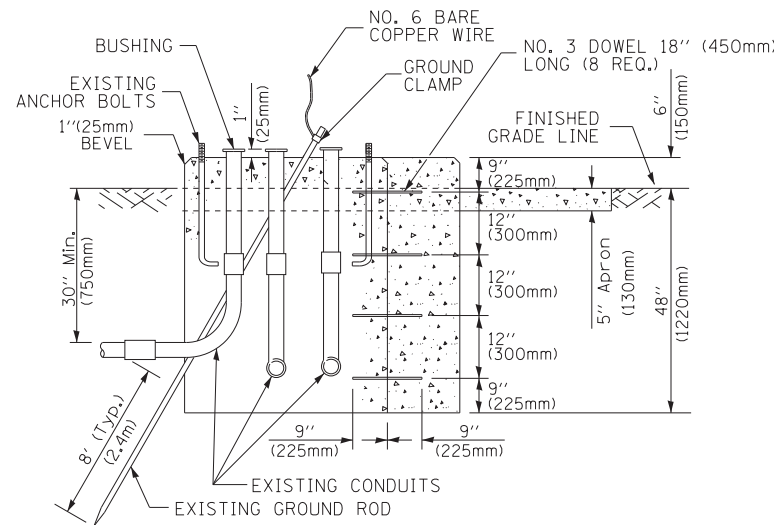
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

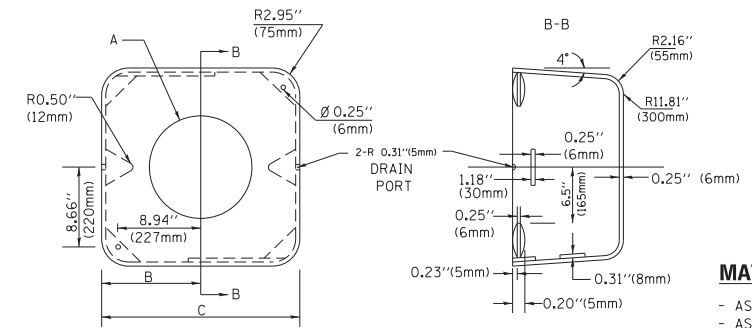


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

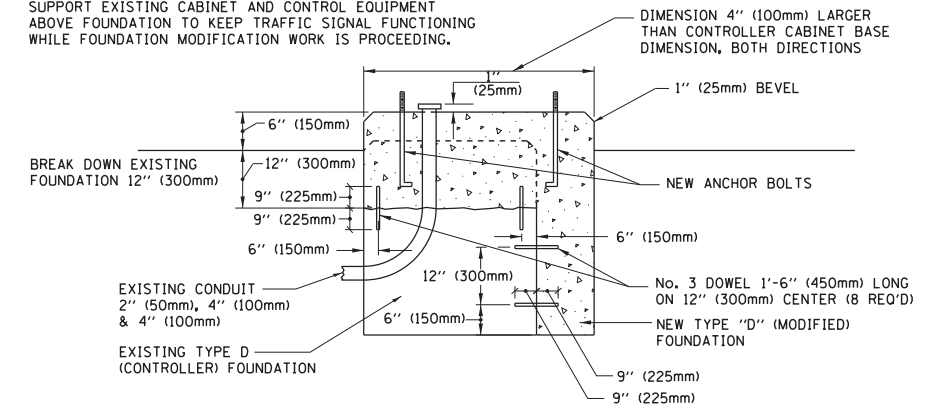
**SHROUD**

**NOTES:**

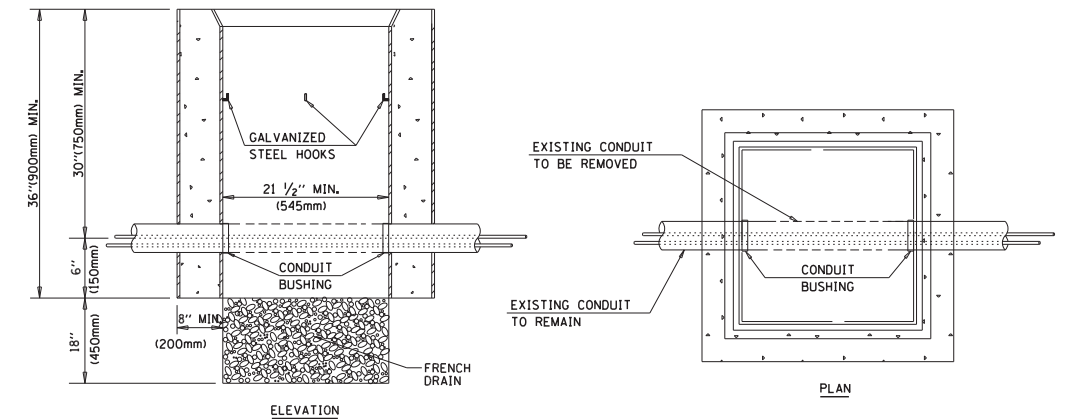
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

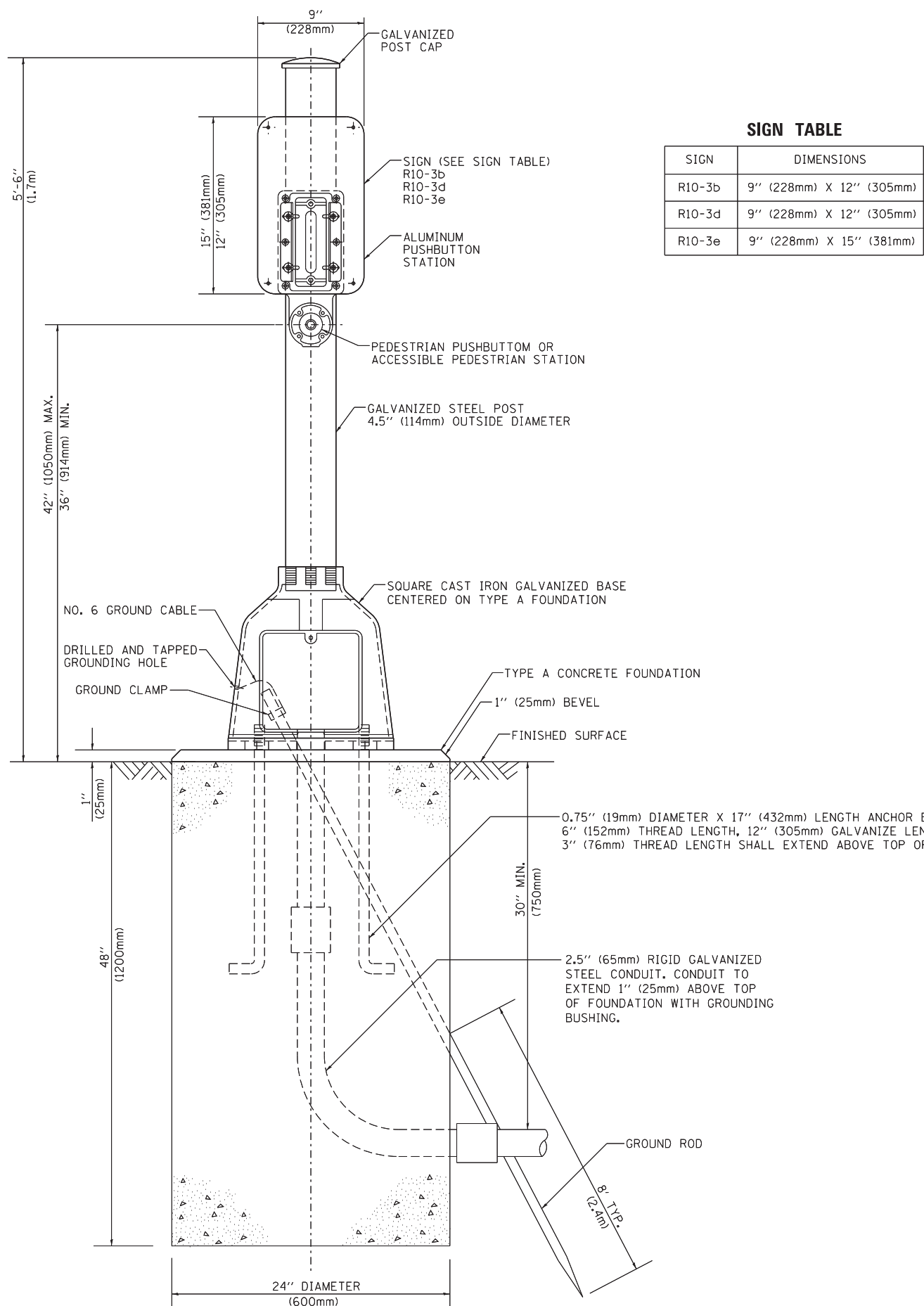
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ca:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

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

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

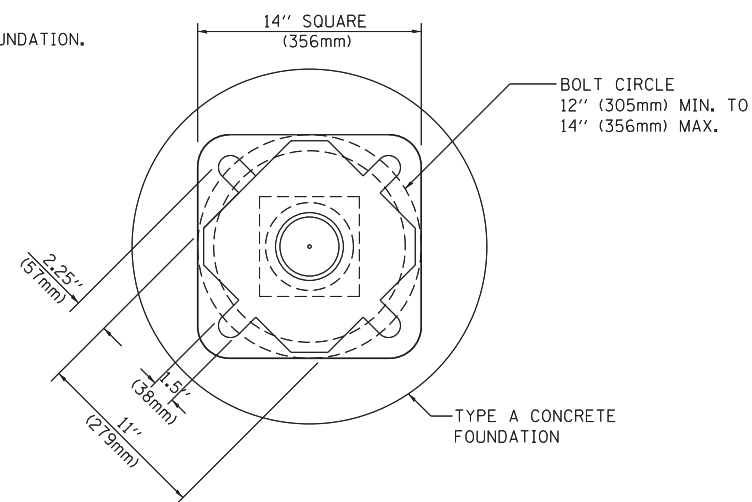
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60F
<b>TS-05</b>		CONTRACT NO. 62H44		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ct:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 50.0000' / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

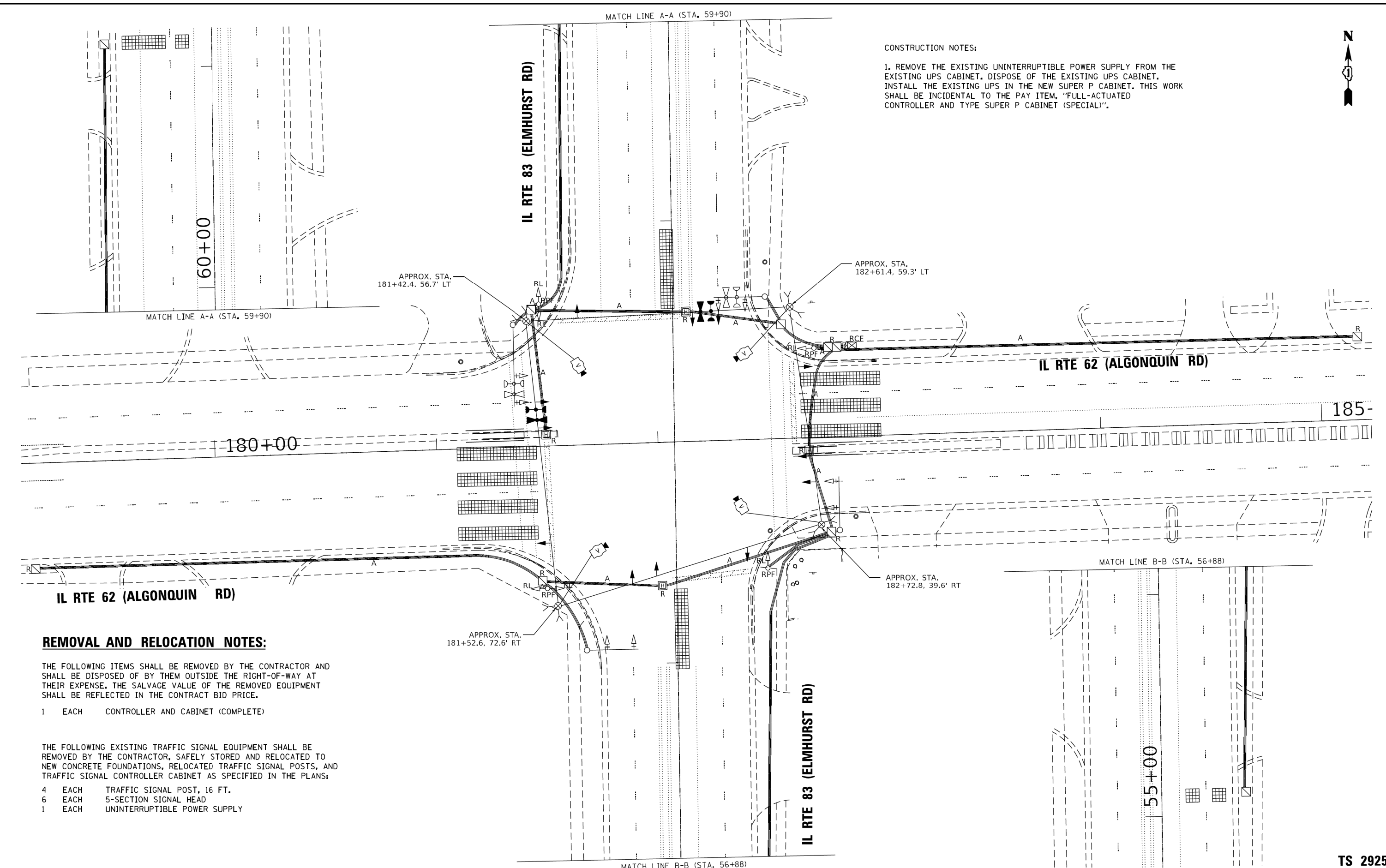
<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60G
<b>TS-05</b>		CONTRACT NO. 62H44		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**CONSTRUCTION NOTES:**

1. REMOVE THE EXISTING UNINTERRUPTIBLE POWER SUPPLY FROM THE EXISTING UPS CABINET. DISPOSE OF THE EXISTING UPS CABINET. INSTALL THE EXISTING UPS IN THE NEW SUPER P CABINET. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM, "FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)".



**REMOVAL AND RELOCATION NOTES:**

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO NEW CONCRETE FOUNDATIONS, RELOCATED TRAFFIC SIGNAL POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET AS SPECIFIED IN THE PLANS:

- 4 EACH TRAFFIC SIGNAL POST, 16 FT.
- 6 EACH 5-SECTION SIGNAL HEAD
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY

MODEL: SMOBELMAMES  
FILE NUMBER: 211E15

**TranSmart/EJM**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607

USER NAME = \$USERS	DESIGNED - BD	REVISED -
DRAWN - BD	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - RJ	REVISED -
PLOT DATE = \$DATES	DATE - 3/18/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

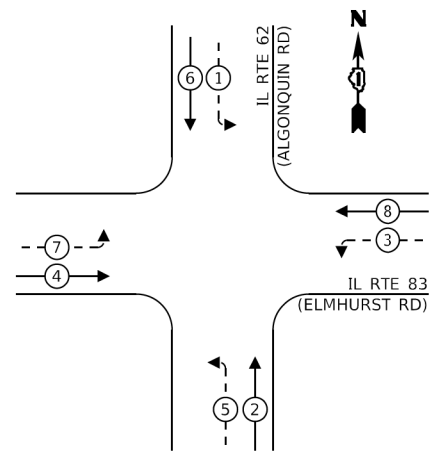
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE  
EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 83 (ELMHURST RD) AND IL RTE 62 (ALGONQUIN RD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60H
CONTRACT NO. 62H44				
ILLINOIS FED. AID PROJECT				

**TS 2925  
ECON 196**

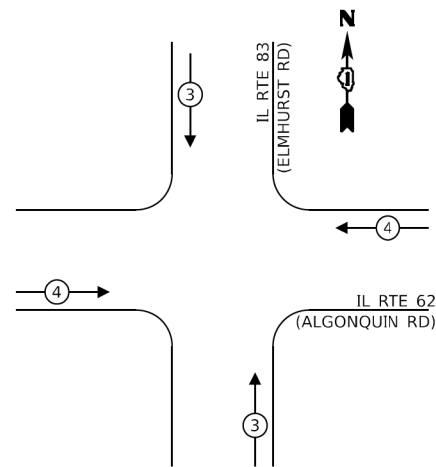
**PROPOSED CONTROLLER SEQUENCE**



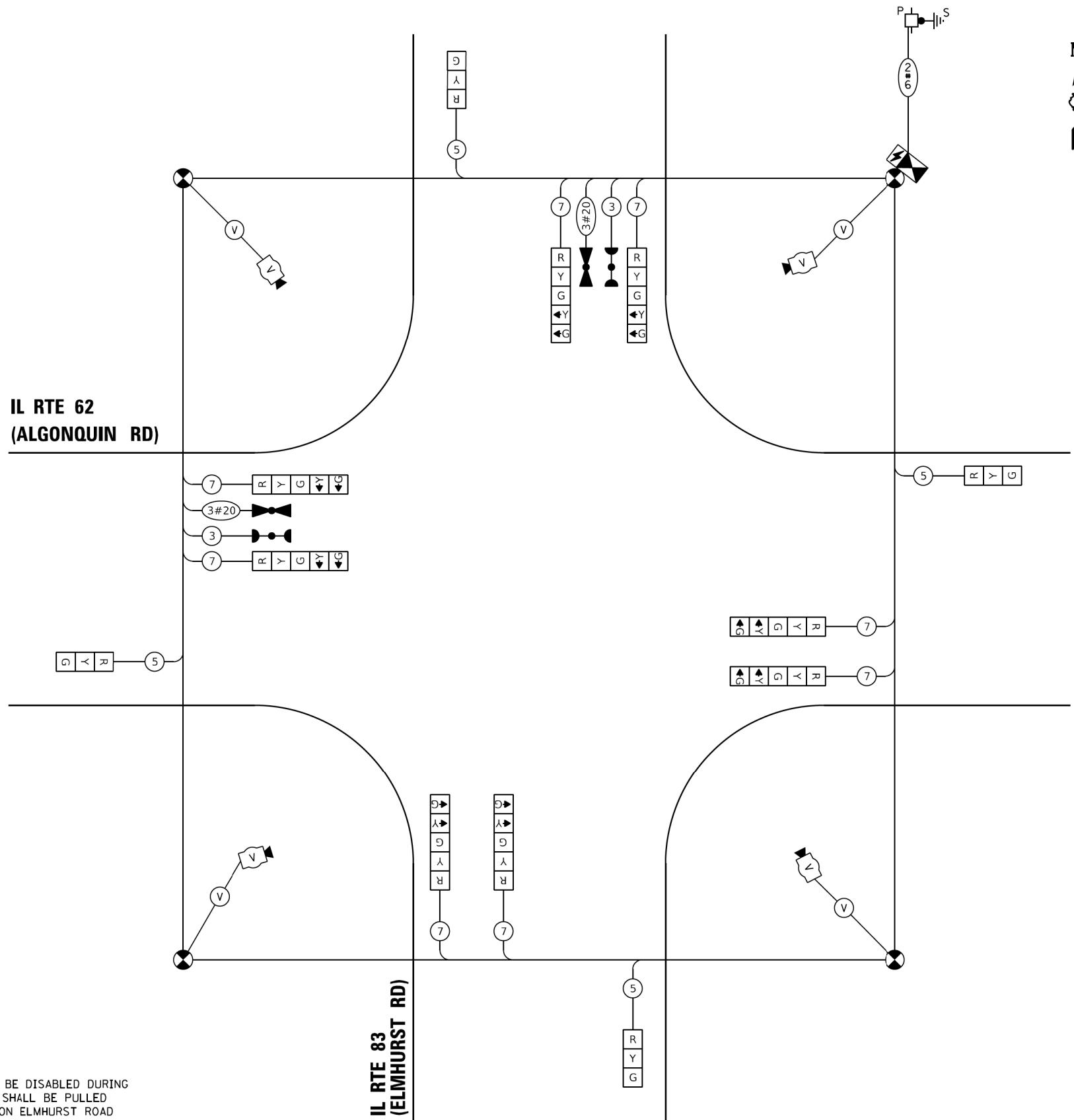
**LEGEND:**

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

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**IL RTE 62  
(ALGONQUIN RD)**



**CABLE PLAN**  
(NOT TO SCALE)

**NOTE:**  
EXISTING TRAFFIC SIGNAL INTERCONNECT SHALL BE DISABLED DURING CONSTRUCTION. THE FIBER AND TRACER CABLES SHALL BE PULLED BACK TO THE FAR-BACK DETECTION HANDHOLES ON ELMHURST ROAD AND REINSTALLED PER THE DIRECTION OF THE ENGINEER.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	0	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>283.8</b>

ENERGY COSTS TO:

VILLAGE OF MOUNT PROSPECT  
50 SOUTH EMERSON STREET  
MOUNT PROSPECT, IL 60056

ENERGY SUPPLY: CONTACT: DAVE SCHACHT  
PHONE: (630) 437-2129  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

USER NAME = \$USERS	DESIGNED - BD	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - BD	REVISED -
PLOT DATE = \$DATE\$	CHECKED - RJ	REVISED -
	DATE - 3/18/2019	REVISED -

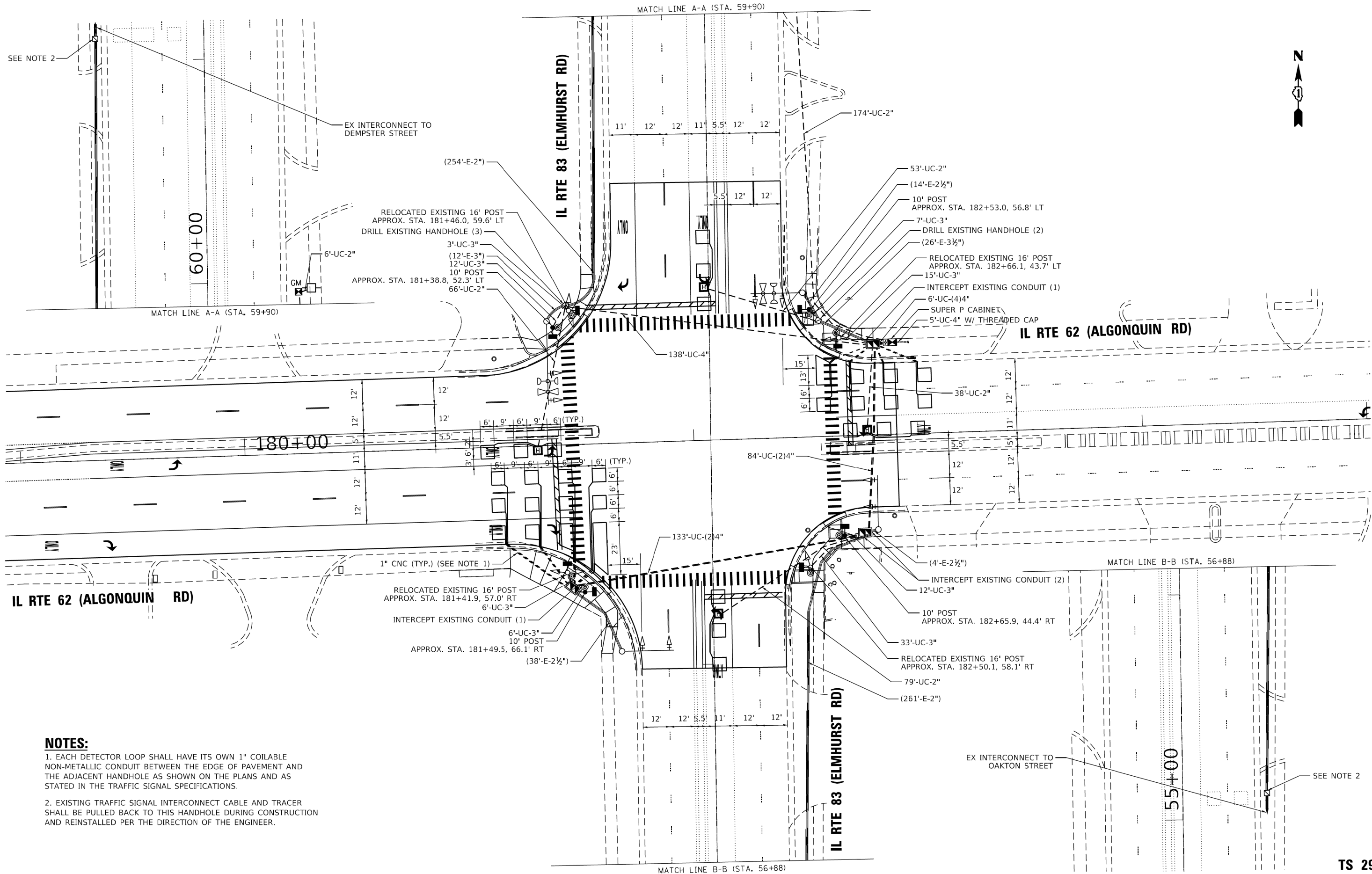
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,  
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 83 (ELMHURST RD) AND IL RTE 62 (ALGONQUIN RD)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	601
CONTRACT NO. 62H44				

**TS 2925  
ECON 196**



**NOTES:**

1. 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.

2. EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE AND TRACER SHALL BE PULLED BACK TO THIS HANDHOLE DURING CONSTRUCTION AND REINSTALLED PER THE DIRECTION OF THE ENGINEER.

MODEL: SPODELMAMES  
FILE NUMBER: 61165

**TranSmart/EJM**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607

USER NAME = \$USERS	DESIGNED - BD	REVISED -
DRAWN - BD	REVISED -	
PLOT SCALE = \$SCALES	CHECKED - RJ	REVISED -
PLOT DATE = \$DATES	DATE - 3/18/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

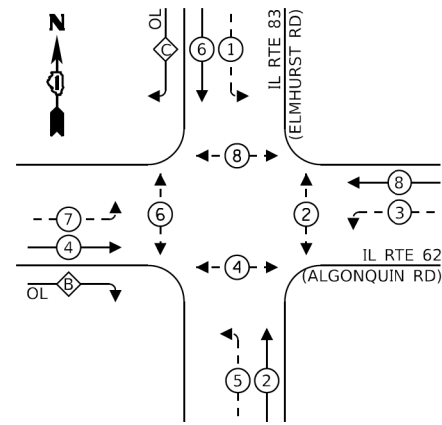
**TRAFFIC SIGNAL INSTALLATION PLAN  
IL RTE 83 (ELMHURST RD) AND IL RTE 62 (ALGONQUIN RD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60J
CONTRACT NO. 62H44				
ILLINOIS		FED. AID PROJECT		

**TS 2925  
ECON 196**

**PROPOSED CONTROLLER SEQUENCE**



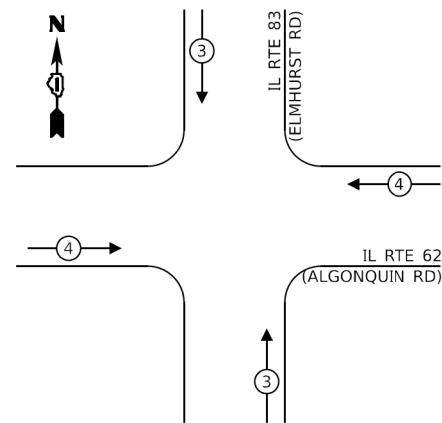
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 7

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				475.6

ENERGY COSTS TO:

VILLAGE OF MOUNT PROSPECT  
50 SOUTH EMERSON STREET  
MOUNT PROSPECT, IL 60056

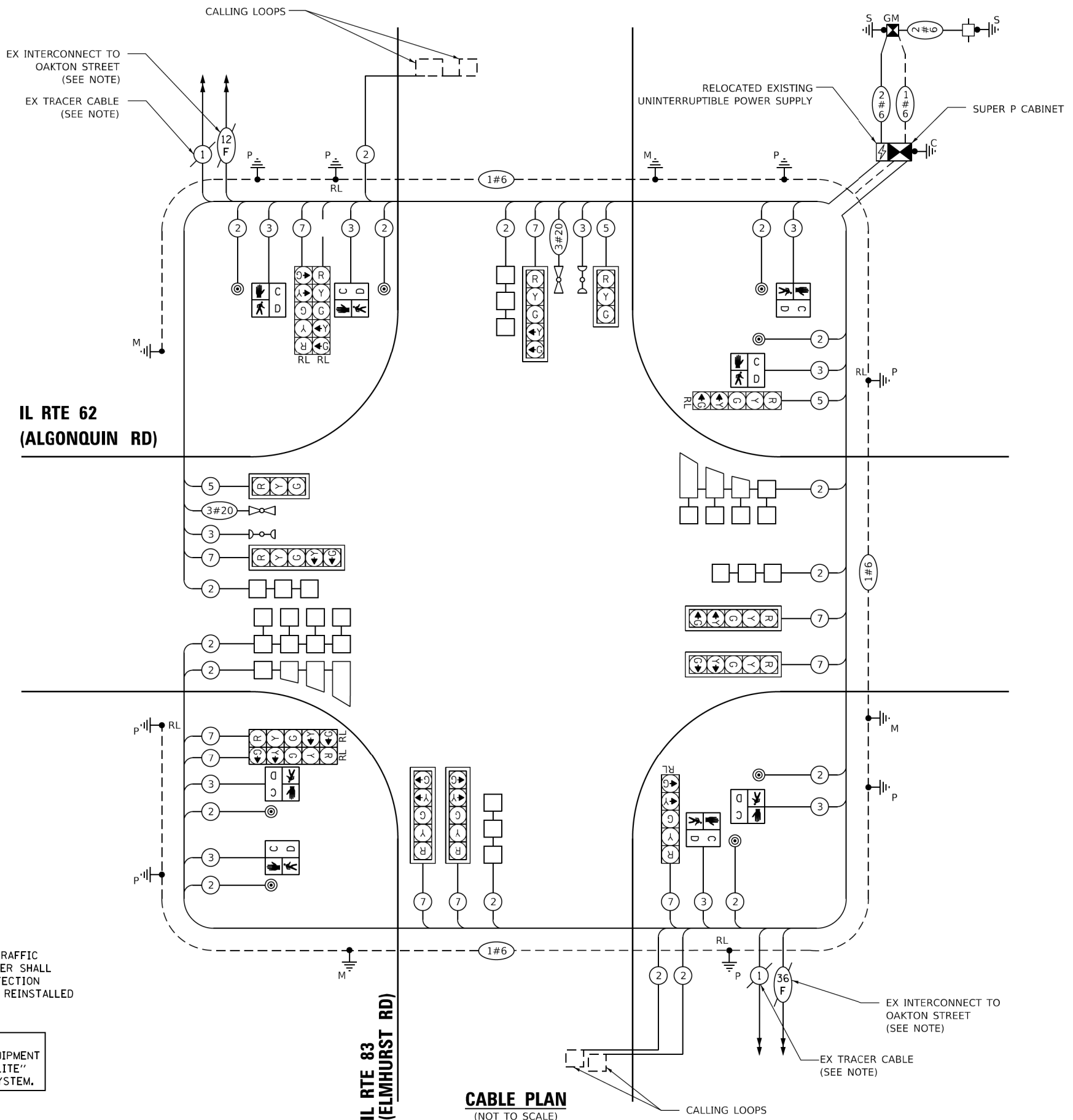
ENERGY SUPPLY: CONTACT: DAVE SCHACHT  
PHONE: (630) 437-2129  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

NOTE:  
DURING CONSTRUCTION, THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE AND TRACER SHALL BE PULLED BACK TO THE FAR-BACK DETECTION HANDHOLES ALONG ELMHURST ROAD AND REINSTALLED PER THE DIRECTION OF THE ENGINEER.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**IL RTE 62 (ALGONQUIN RD)**

**IL RTE 83 (ELMHURST RD)**



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**IL RTE 83 (ELMHURST RD) AND IL RTE 62 (ALGONQUIN RD)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60K
CONTRACT NO. 62H44				

ILLINOIS FED. AID PROJECT

**TS 2925**  
**ECON 196**

USER NAME = \$USERS	DESIGNED - BD	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - BD	REVISED -
PLOT DATE = \$DATES	CHECKED - RJ	REVISED -
	DATE - 3/18/2019	REVISED -

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	416
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	94
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	601
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,428
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,782
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	334
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,571
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,263
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	207
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	804
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	36
CONCRETE FOUNDATION, TYPE C	FOOT	4
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	1,193
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,768
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	805
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	354
ROD AND CLEAN EXISTING CONDUIT	FOOT	609
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
INTERCEPT EXISTING CONDUIT	EACH	4

\* 100% COST TO THE VILLAGE OF MOUNT PROSPECT

**TS 2925  
ECON 196**

MODEL: SMOBELNAMIES  
FILE NUMBER: 371113

**TranSmart/EJM**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607

USER NAME = \$USERS	DESIGNED - BD	REVISED -
	DRAWN - BD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - RJ	REVISED -
PLOT DATE = \$DATES	DATE - 3/18/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

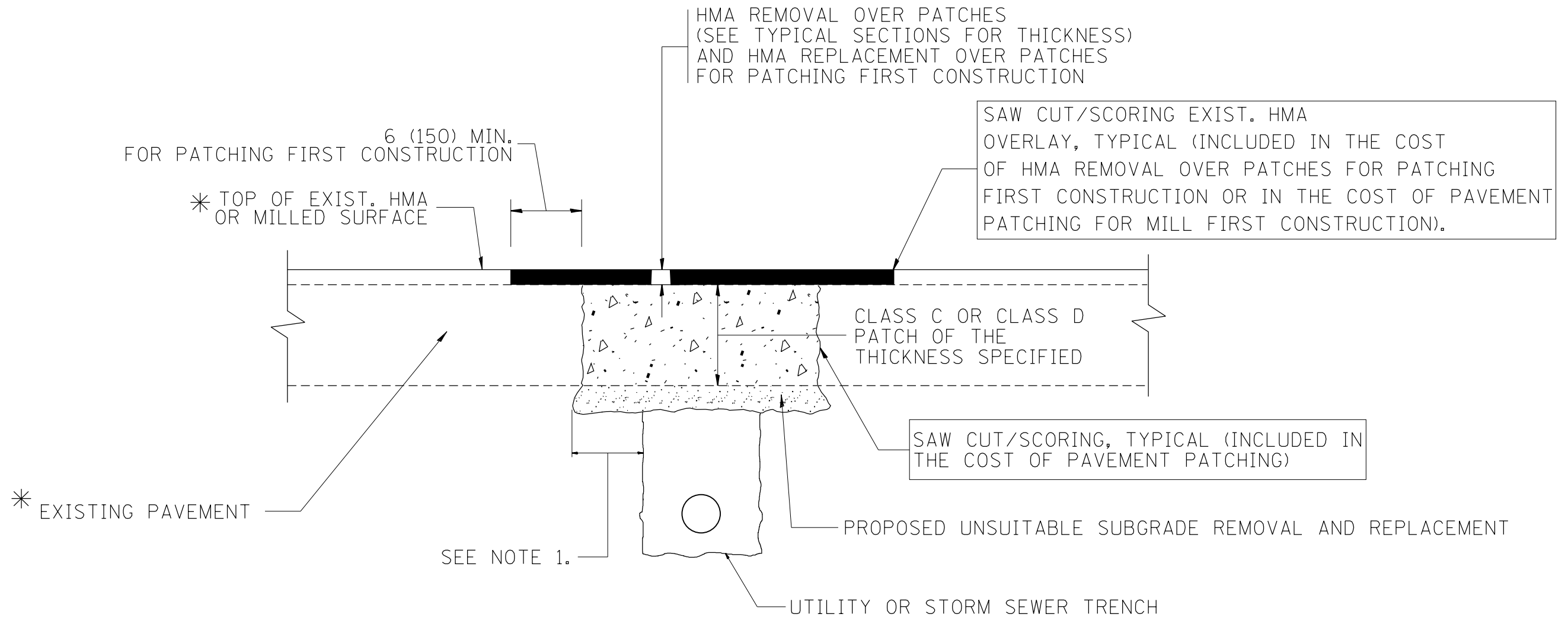
**SCHEDULE OF QUANTITIES  
IL RTE 83 (ELMHURST RD) AND IL RTE 62 (ALGONQUIN RD)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-RS&SW	COOK	72	60L
			CONTRACT NO. 62H44	
		ILLINOIS	FED. AID PROJECT	







\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

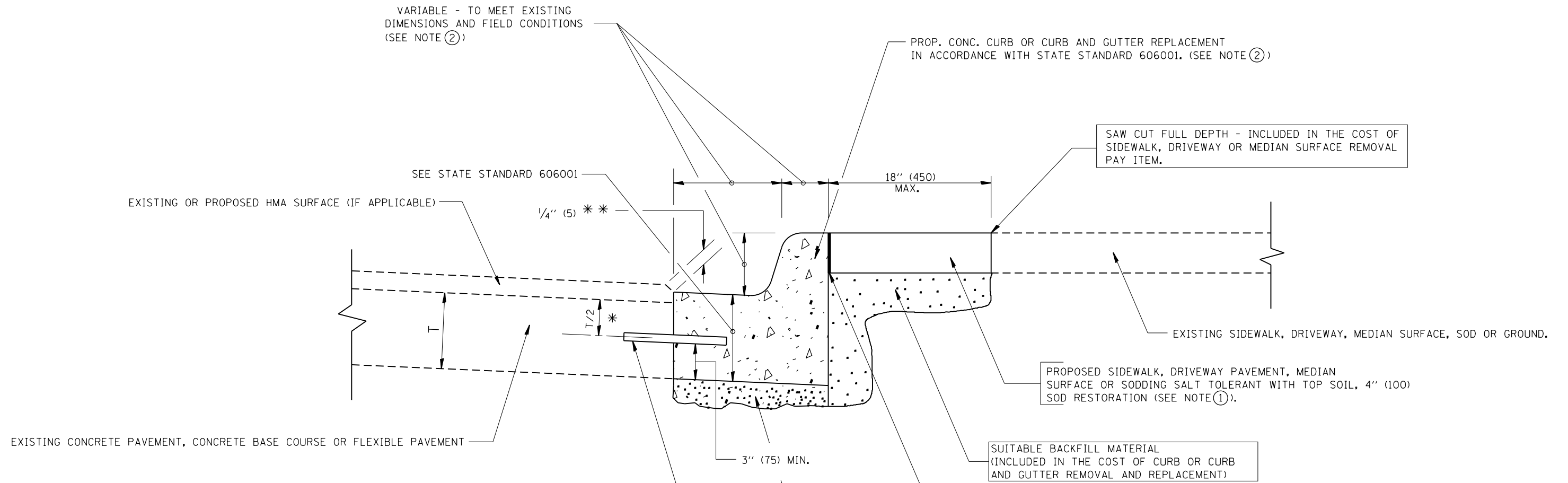
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI049\Drawings\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 01-01-07					3514	2018-103-R5&SW	COOK	72	62
	PLOT DATE = 2/1/2019	DATE - 10-25-94	REVISED - R. BORO 09-04-07		<b>BD400-04 (BD-22)</b>			<b>CONTRACT NO. 62H44</b>				
			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



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

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

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

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

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

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

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

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

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

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

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

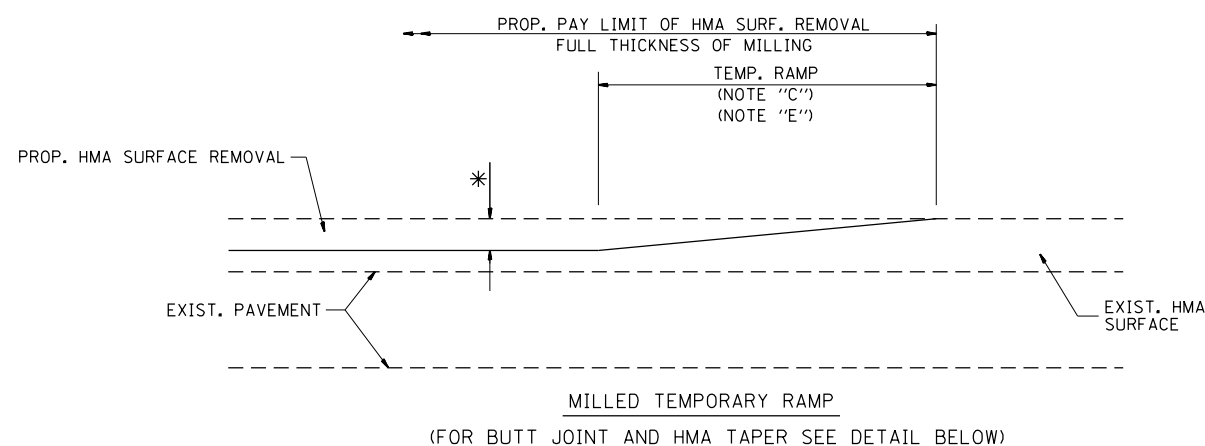
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

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

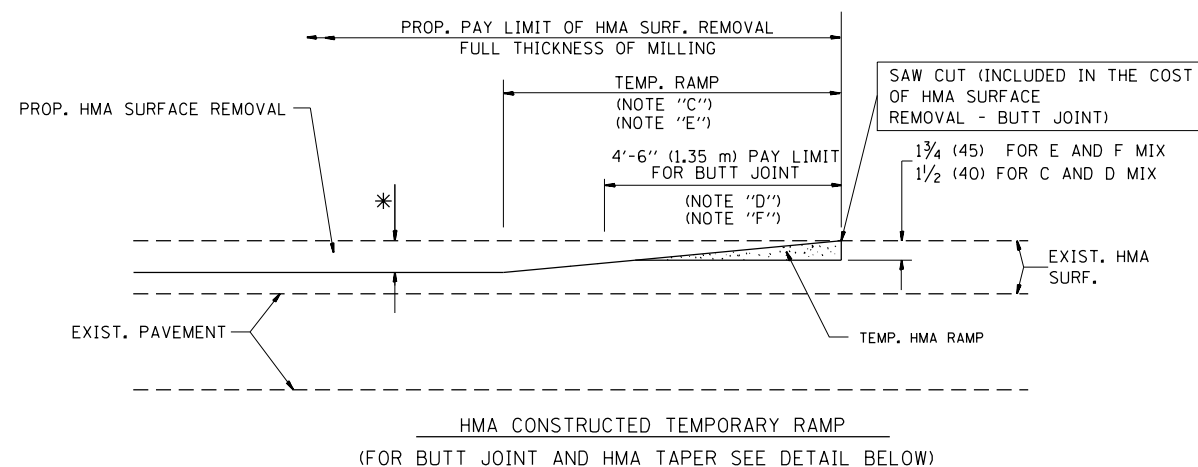
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\1084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI049\Drawings\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - A. ABBAS 03-21-97			3514	2018-103-R5&SW	COOK	72	63
PLOT DATE = 2/1/2019	DATE - 03-11-94	REVISED - M. GOMEZ 01-22-01	REVISED - R. BORO 12-15-09			<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 62H44</b>		
						SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT

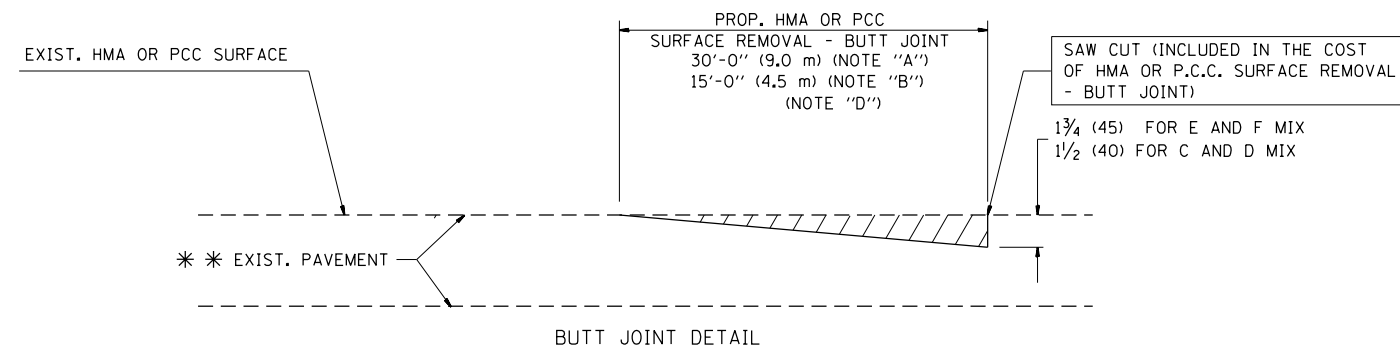


**OPTION 1**

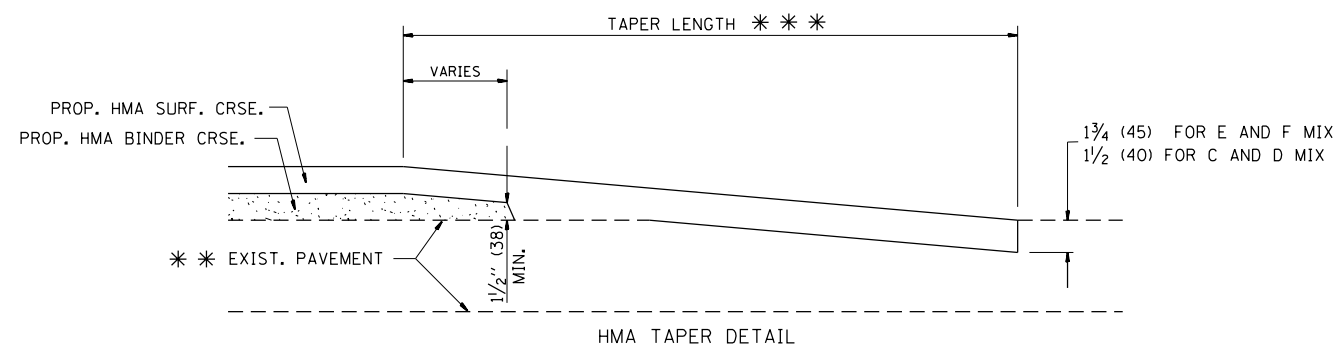


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

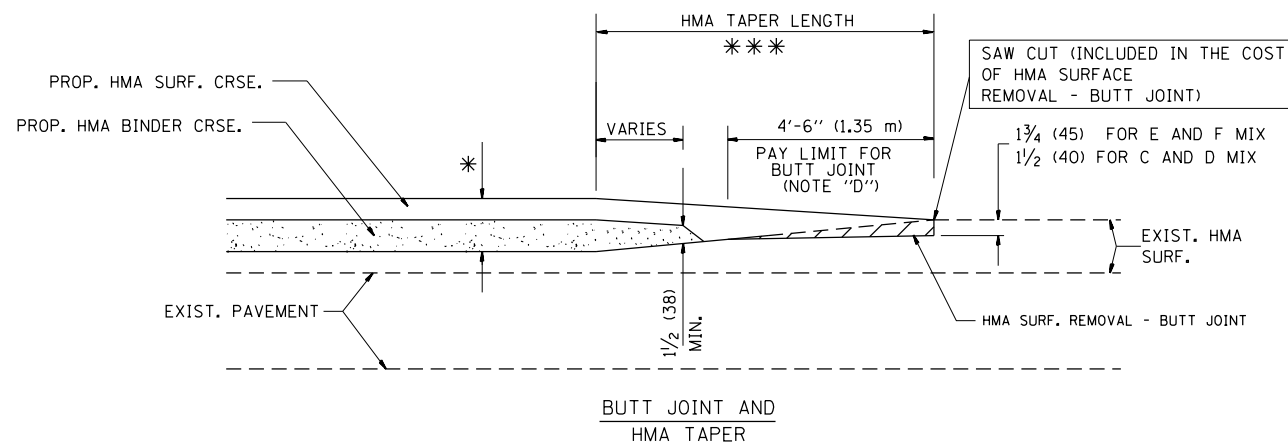
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

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

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



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

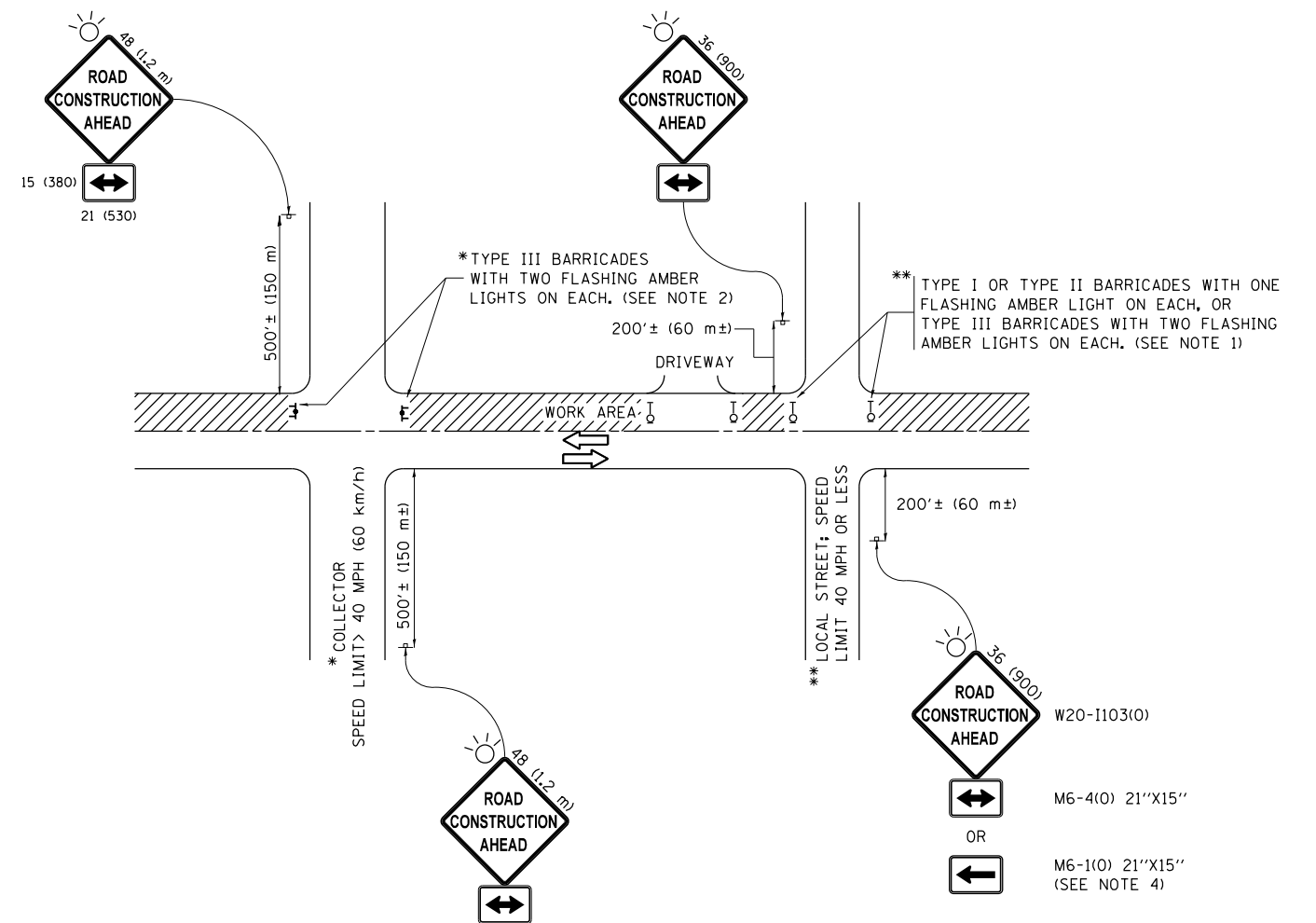
FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\1084EBIDINTEG\Design\DistStd.dgn			REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 2/1/2019	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	64
<b>BD400-05 BD32</b>		<b>CONTRACT NO. 62H44</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

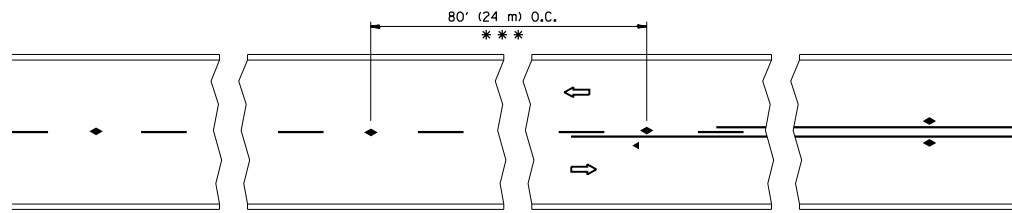
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 2/1/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

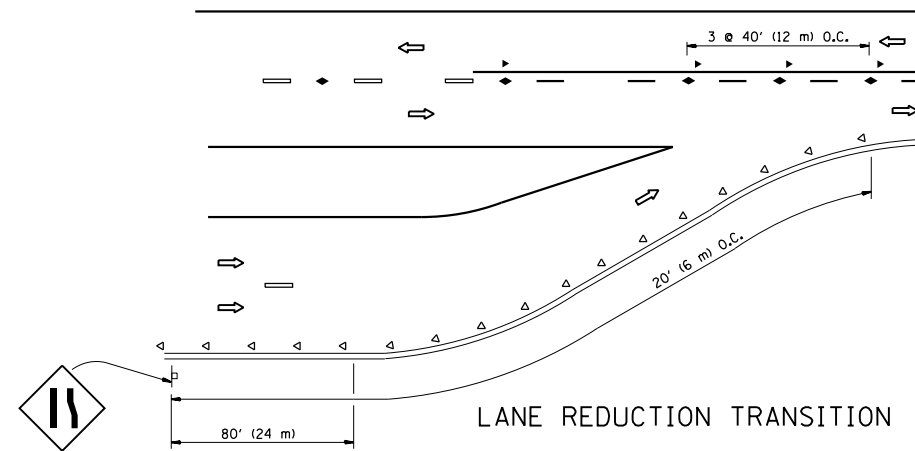
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			<b>CONTRACT NO. 62H44</b>	
ILLINOIS FED. AID PROJECT				

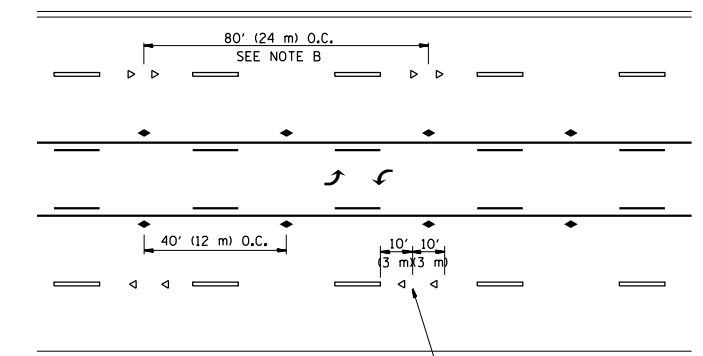


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

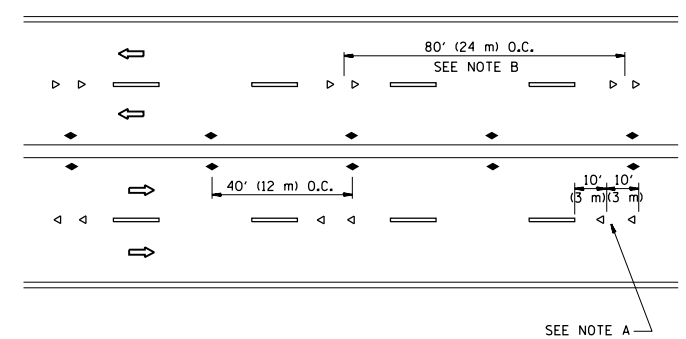
TWO-LANE/TWO-WAY



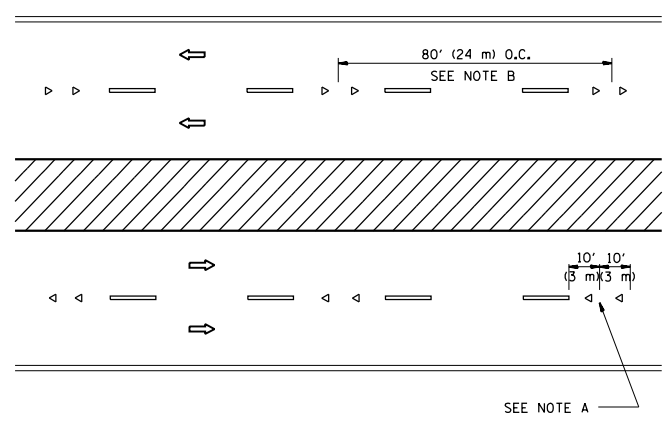
LANE REDUCTION TRANSITION



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.

SYMBOLS

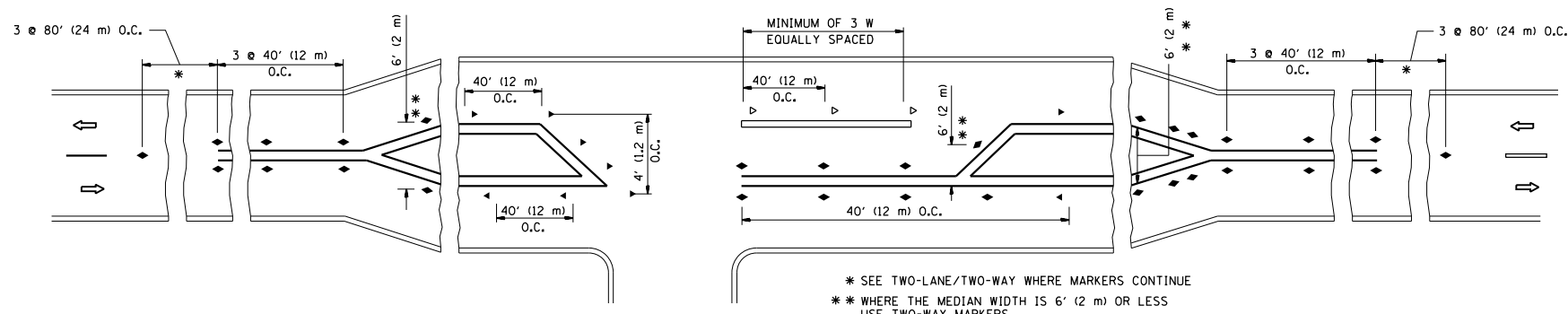
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

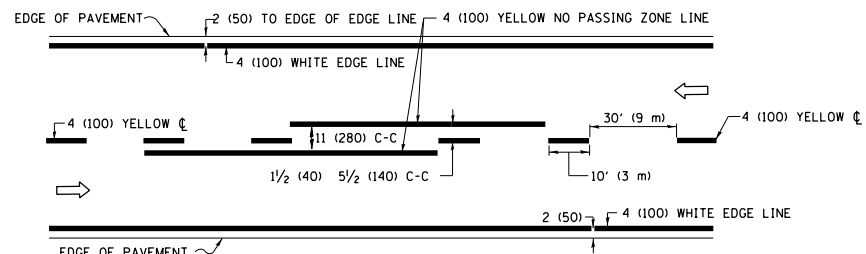


\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

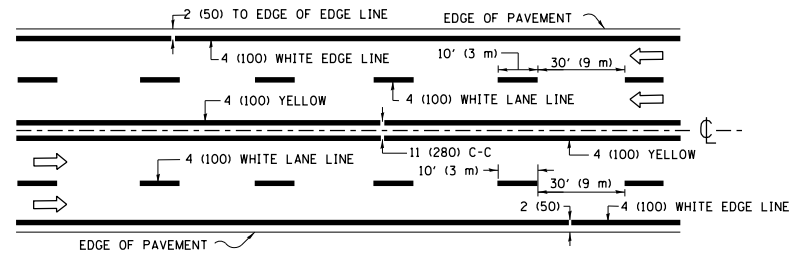
LEFT TURN

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

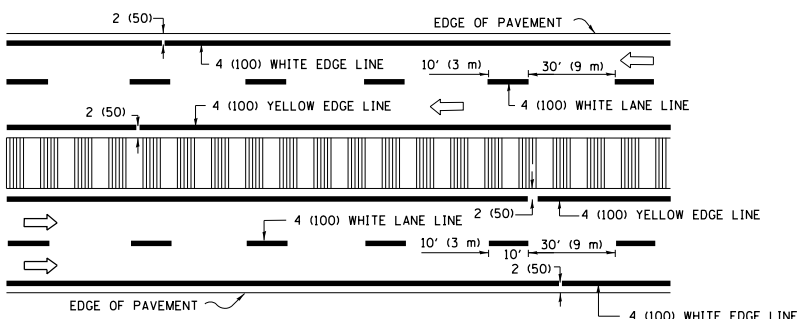
FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI049\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	3514	2018-103-R5&SW	COOK	72	66
PLOT SCALE = 100.0000' / in.		DATE -	REVISED - T. RAMMACHER 01-06-00					<b>TC-11</b>		<b>CONTRACT NO. 62H44</b>			
PLOT DATE = 2/1/2019			REVISED - C. JUCIUS 09-09-09					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



**2-LANE ROADWAY**

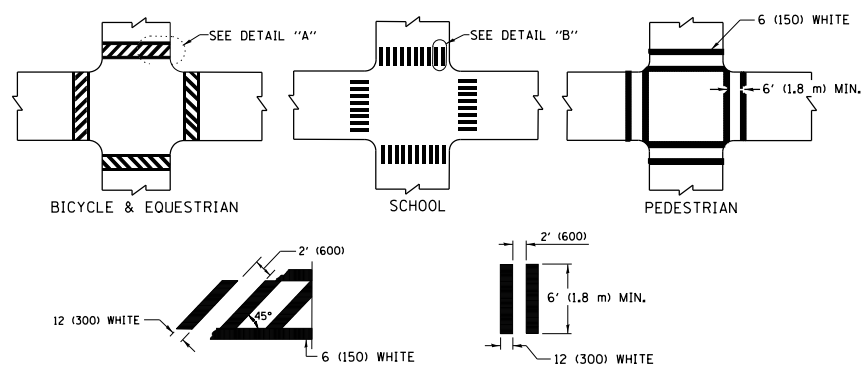


**MULTI-LANE UNDIVIDED**



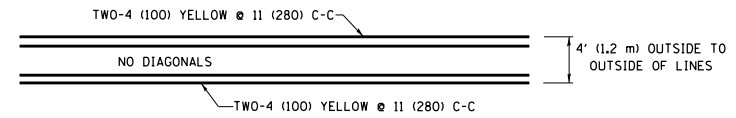
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

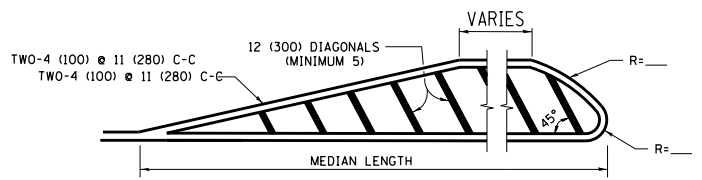


**TYPICAL CROSSWALK MARKING**

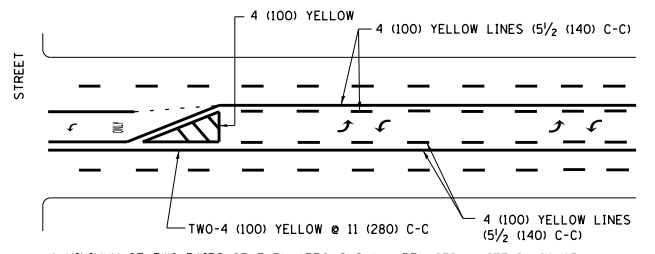
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



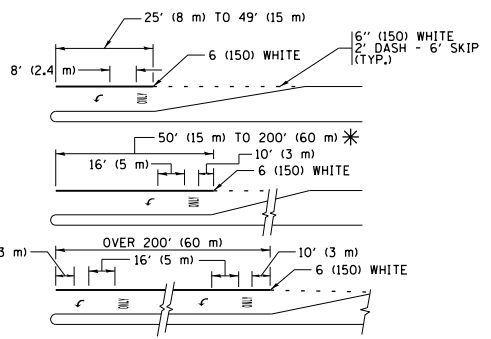
**4' (1.2 m) WIDE MEDIANS ONLY**



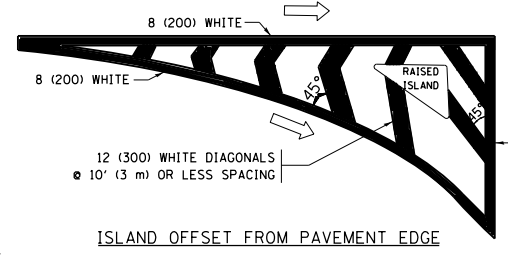
**MEDIANS OVER 4' (1.2 m) WIDE**



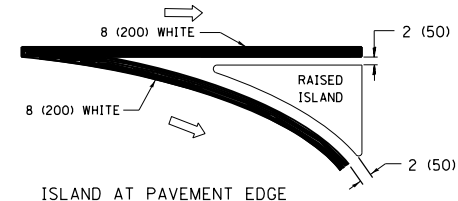
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



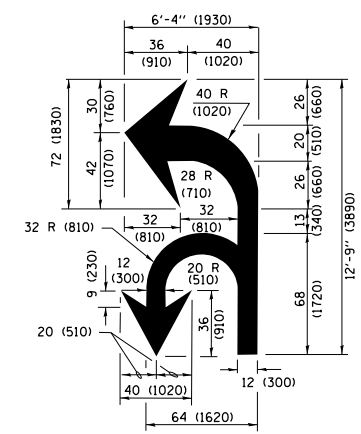
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**



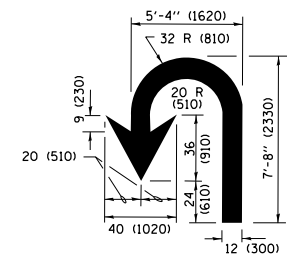
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\1\084EBIDINTEG\illinois.gov\PIWDDT\Documents\DOT Offices\District 1\Projects\01049\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 2/1/2019		REVISED - C. JUCIUS 04-12-16

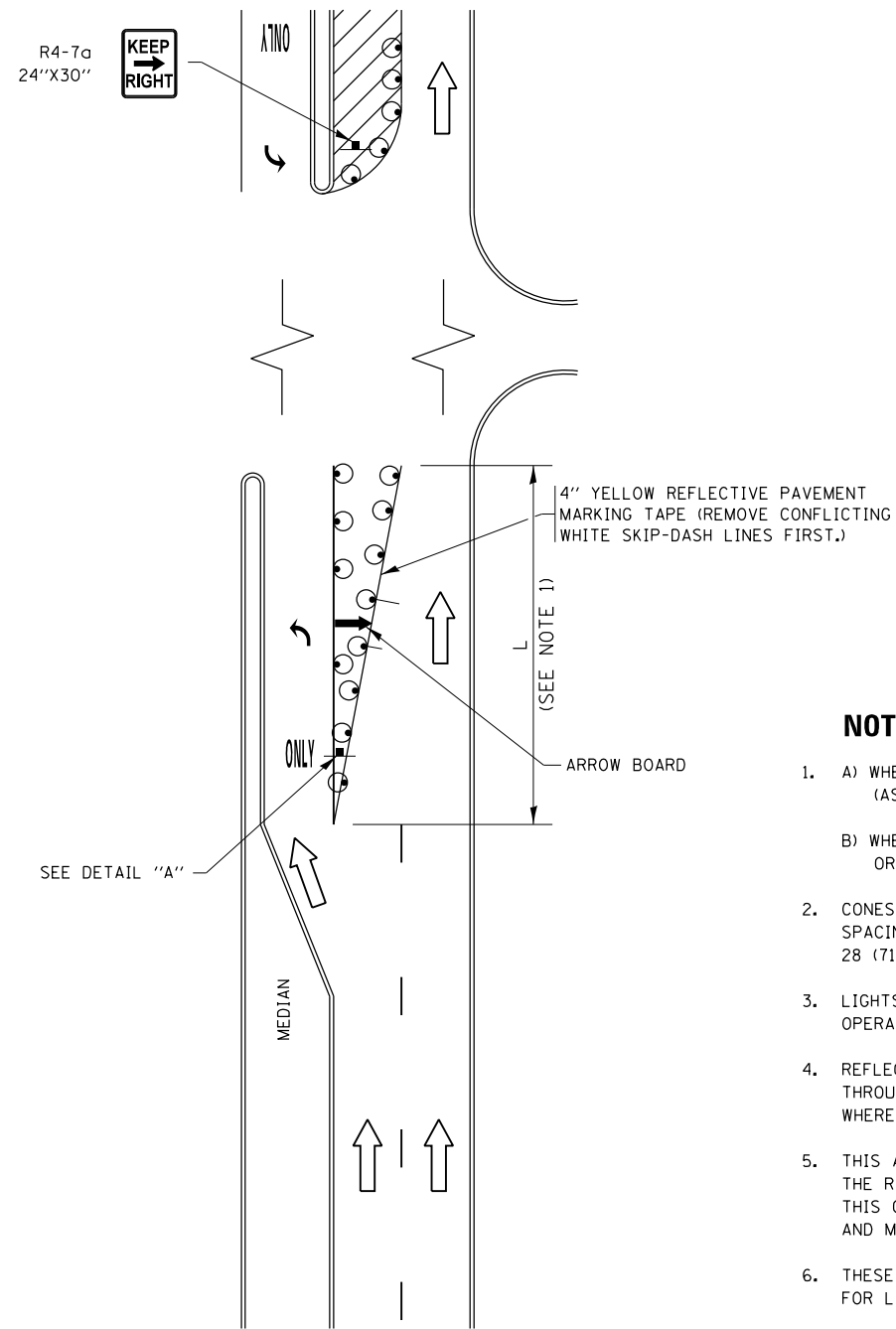
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

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

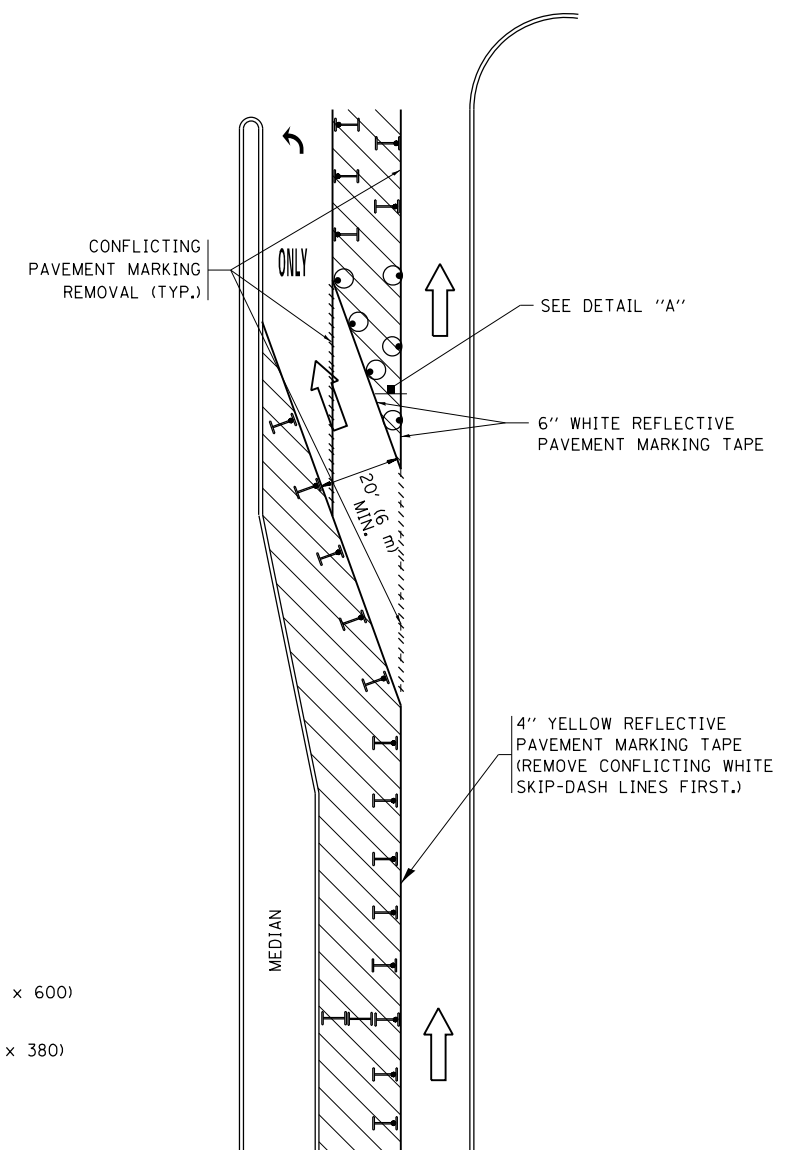
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	67
<b>TC-13</b>		<b>CONTRACT NO. 62H44</b>		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



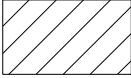






**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



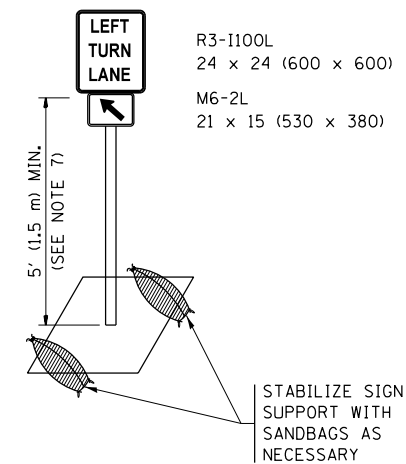
**FIGURE 2**

## 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 PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

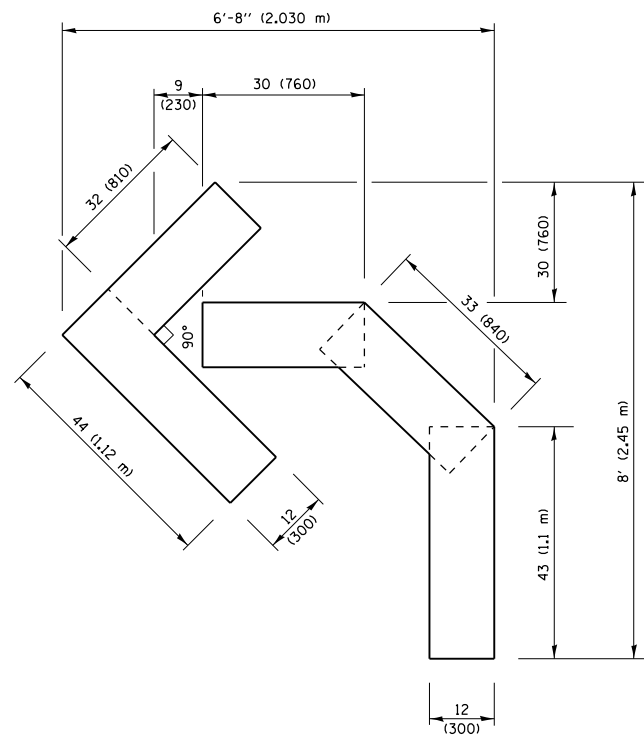


**DETAIL A**

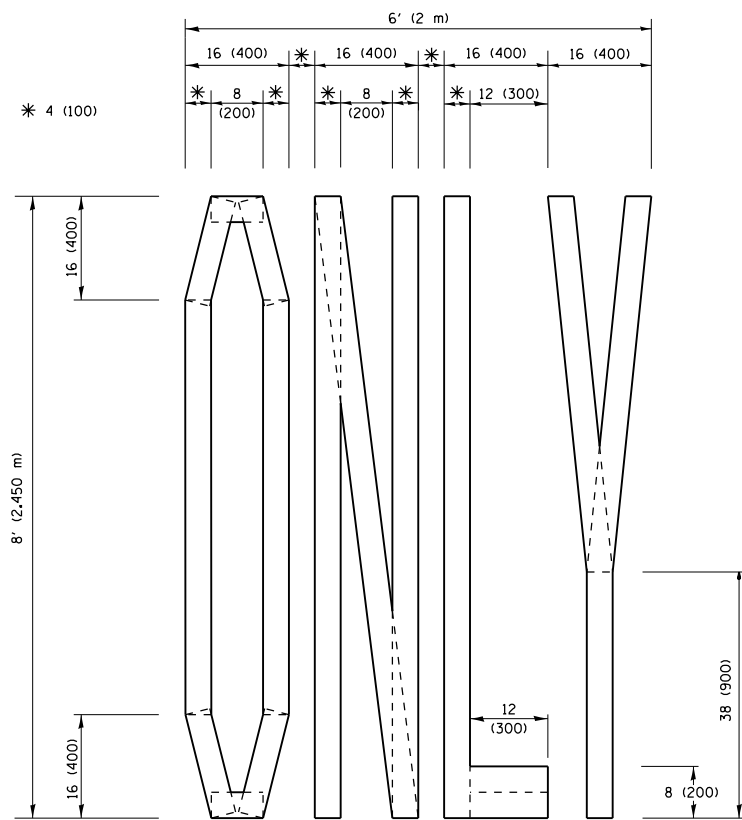
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\DI049\REVISED Design\HOUSEH 11-07-95	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			3514	2018-103-R5&SW	COOK	72	68
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			<b>TC-14</b>		<b>CONTRACT NO. 62H44</b>		
	PLOT DATE = 2/1/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -			SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.

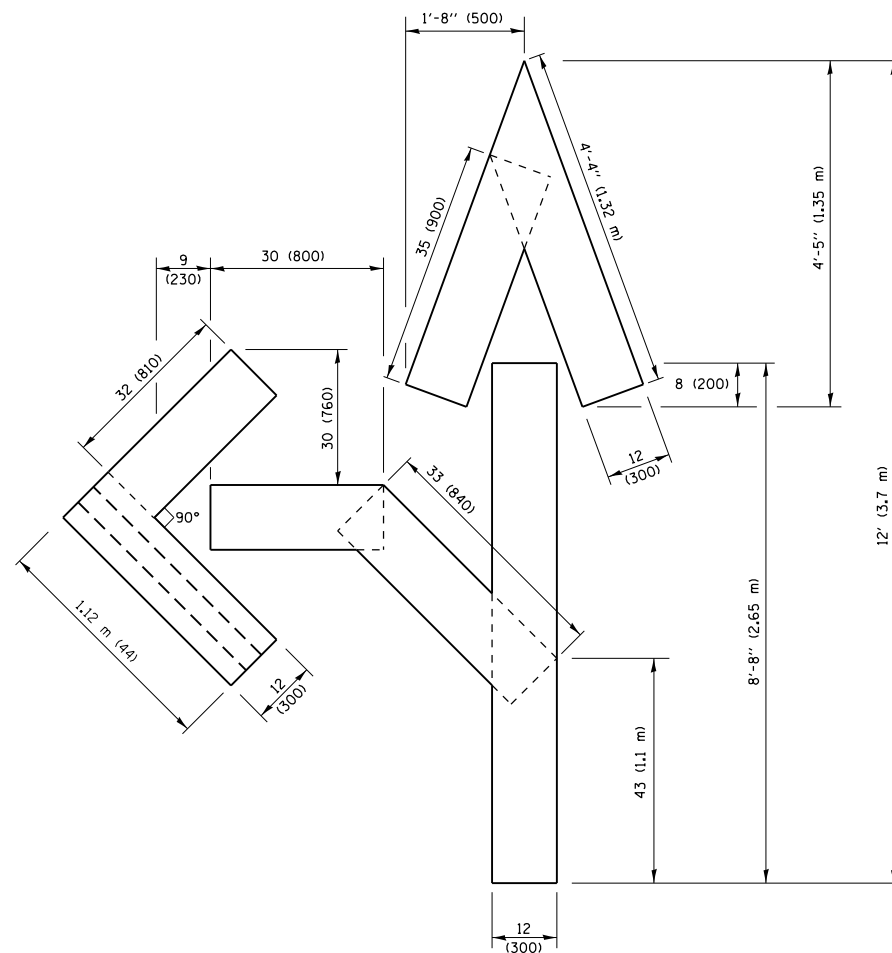
ILLINOIS FED. AID PROJECT



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



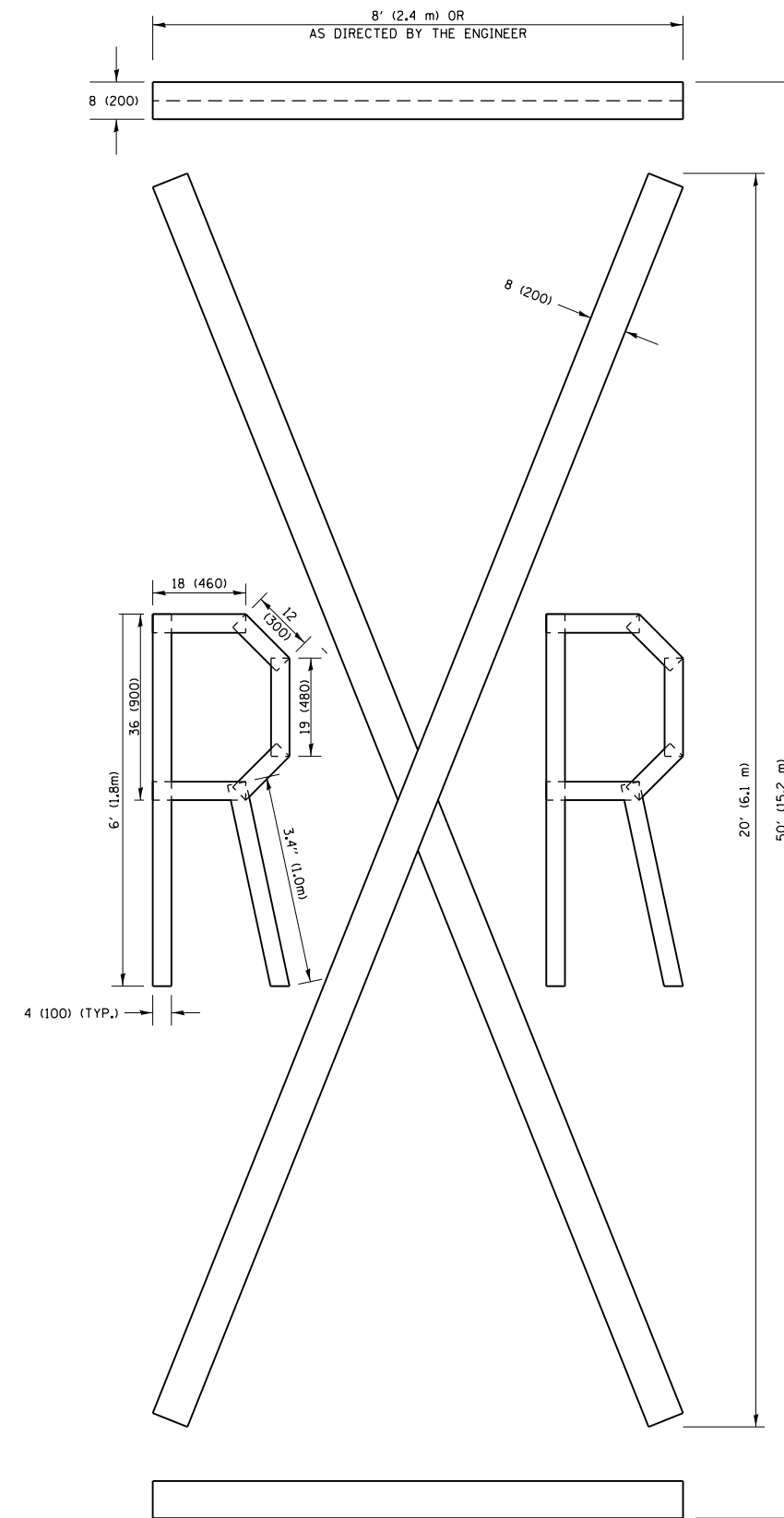
**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



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

**NOTE:**

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



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

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

FILE NAME =	USER NAME = parajnoal	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw\11084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\0104\DRW\0104\Design\DistStd.dgn			REVISED - E. GOMEZ 08-28-00
		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 NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	69
<b>TC-16</b>		<b>CONTRACT NO. 62H44</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**NOTES:**

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

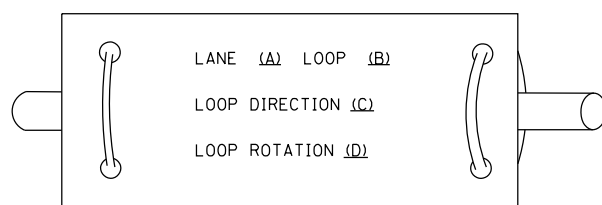
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI049\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - R. MIRS 12-11-97			3514	2018-103-R5&SW	COOK	72	70	
		PLOT SCALE = 100.0000' / 1in.	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		<b>CONTRACT NO. 62H44</b>			
		PLOT DATE = 2/1/2019	REVISED - C. JUCIUS 01-31-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT

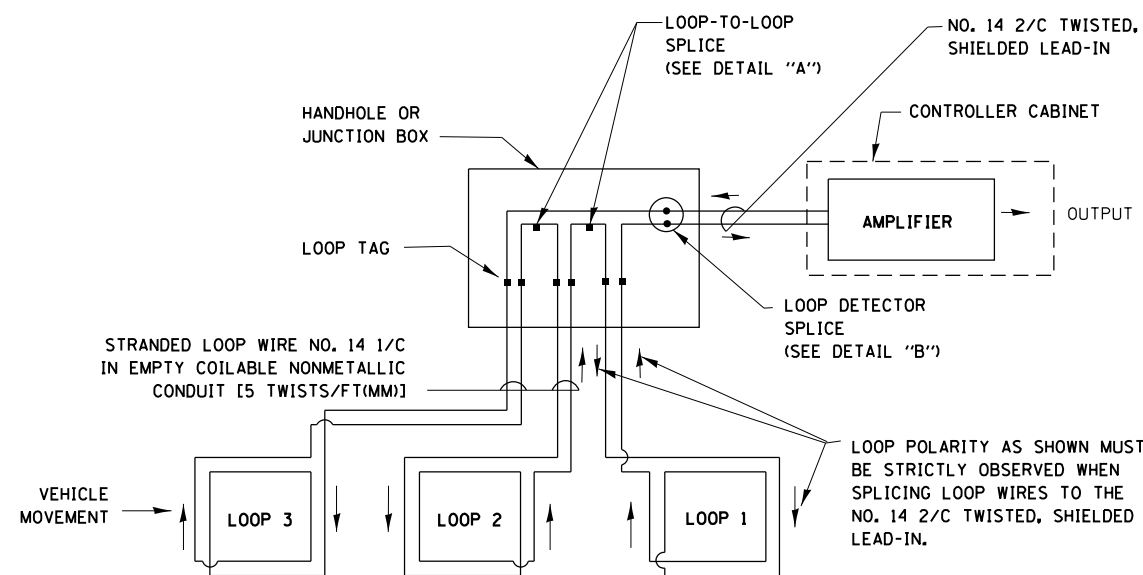
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

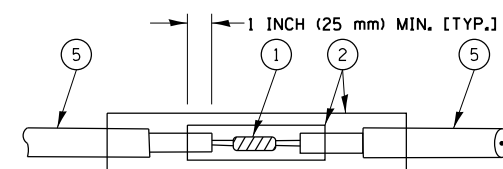


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

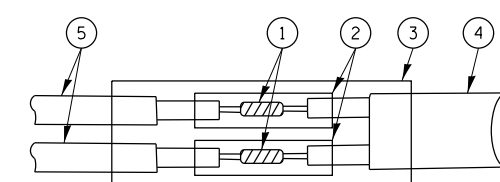


**DETECTOR LOOP WIRING SCHEMATIC**

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

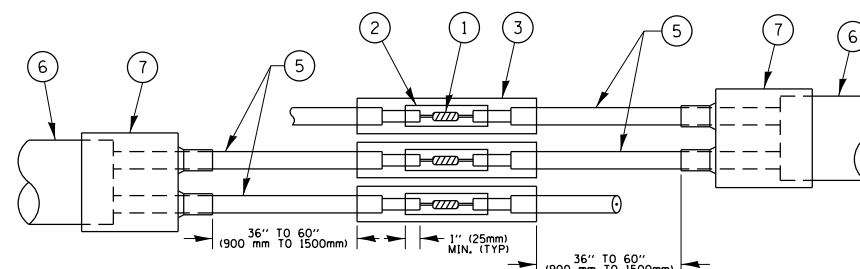


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

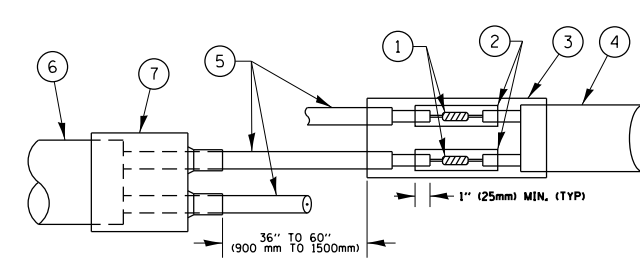


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = parayno1	DESIGNED -	REVISED -
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Default	PLOT DATE = 2/1/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

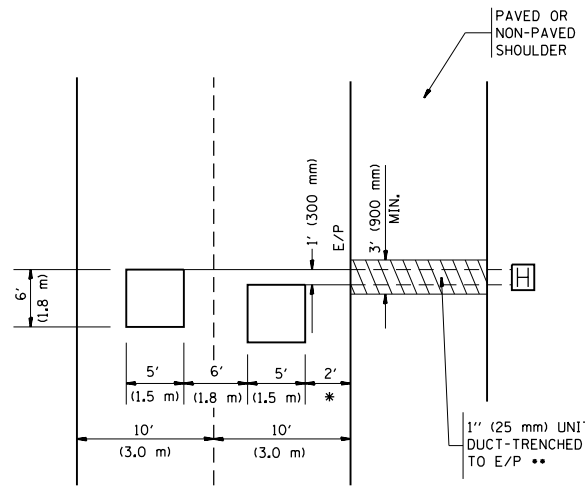
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	2018-103-R5&SW	COOK	72	71
<b>TS-05</b>		<b>CONTRACT NO. 62H44</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.

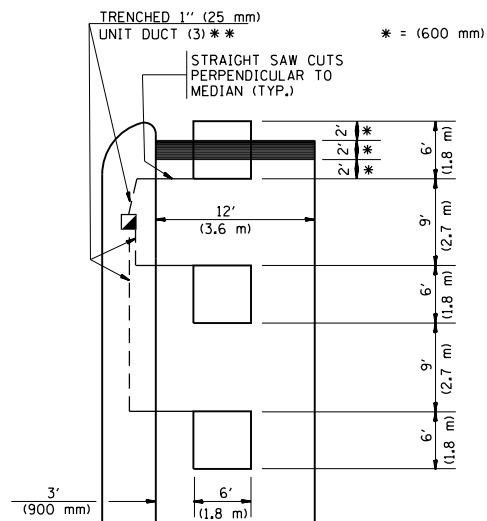


\* = (600 mm)

\*\* 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)

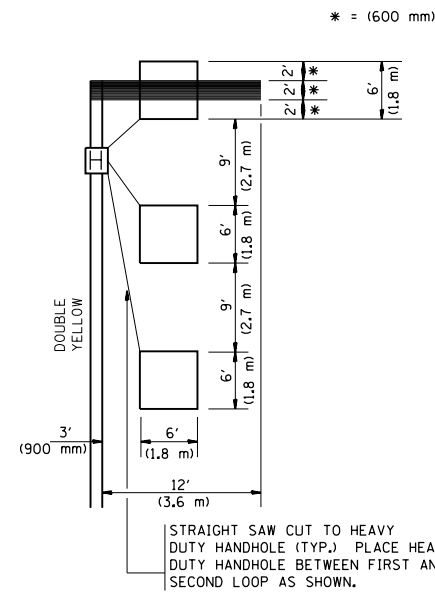
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

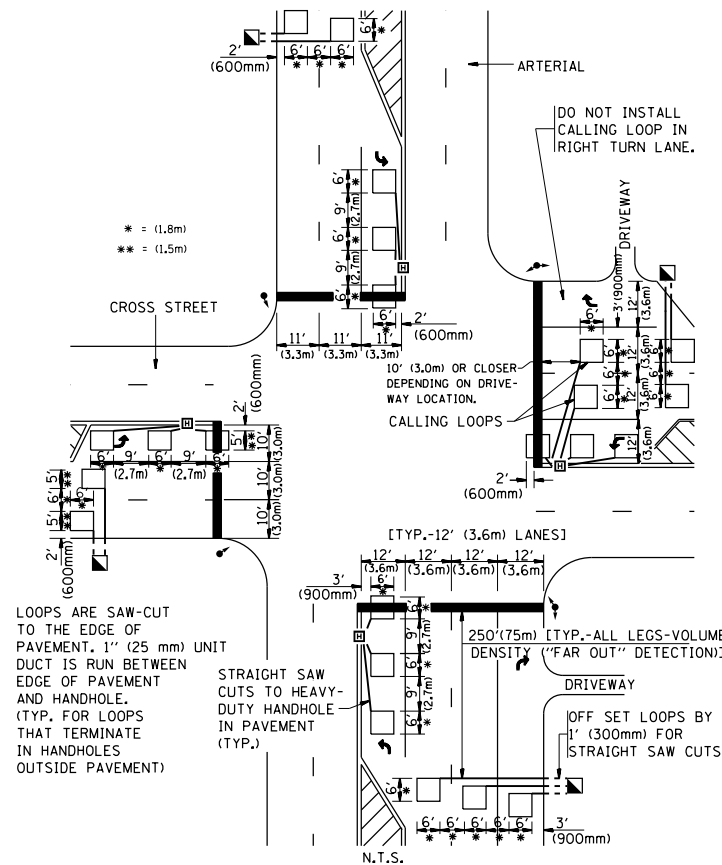
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



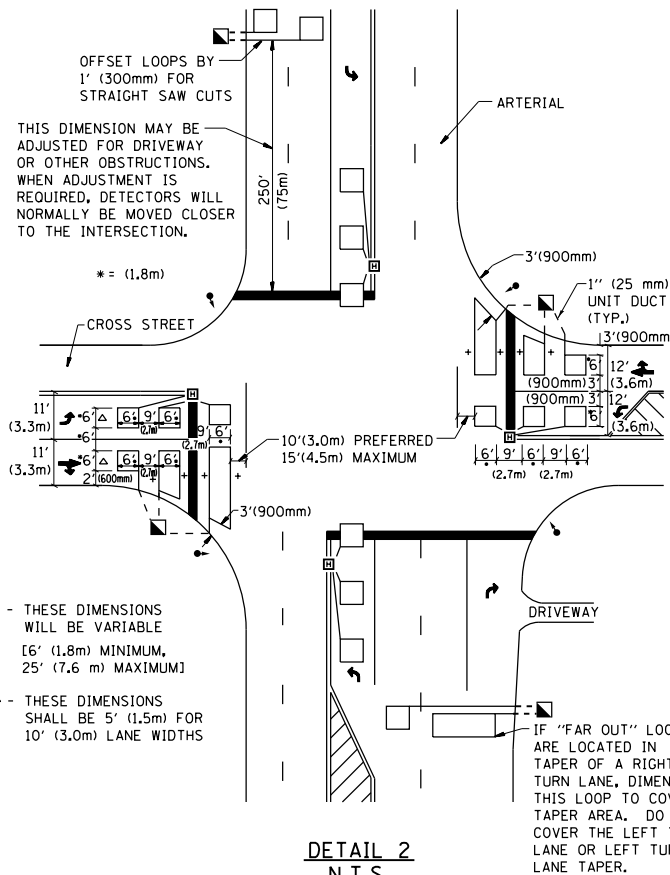
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1  
N.T.S.

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



DETAIL 2  
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

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

NOTE:

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

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

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI049\Drawings\Design\DistStd.dgn		CHECKED - R.K.F.	REVISED -		3514	2018-103-R56SW	COOK	72	72			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		<b>TS-07</b>			<b>CONTRACT NO. 62H44</b>				
PLOT DATE = 2/1/2019			REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			