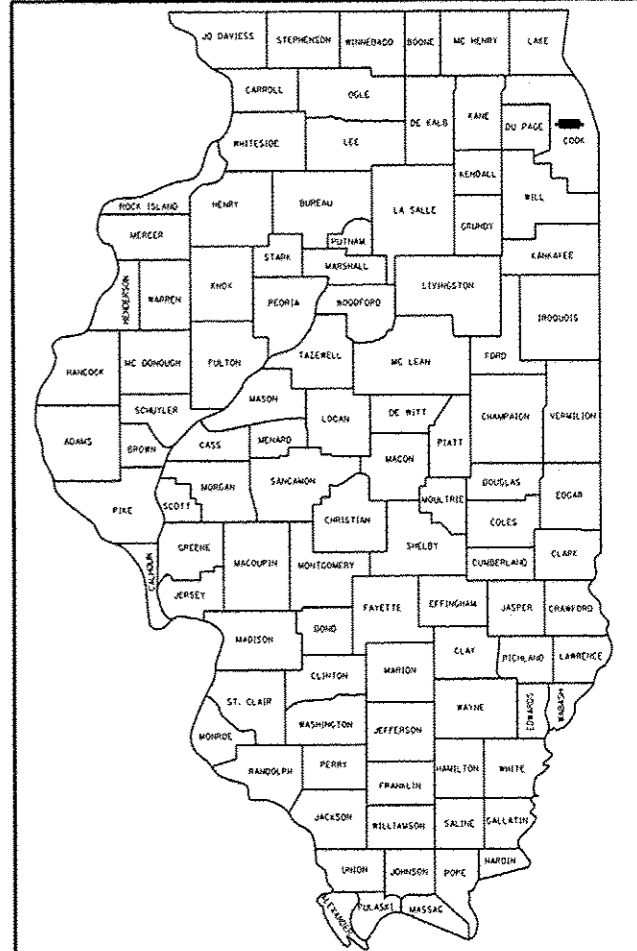


**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

FAU RTE. 3565	SECTION B-N-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 1
			ILLINOIS CONTRACT NO. 60T24	

\*129+2=131

D-91-312-12



LOCATION OF SECTION INDICATED THUS: - [highlighted area]

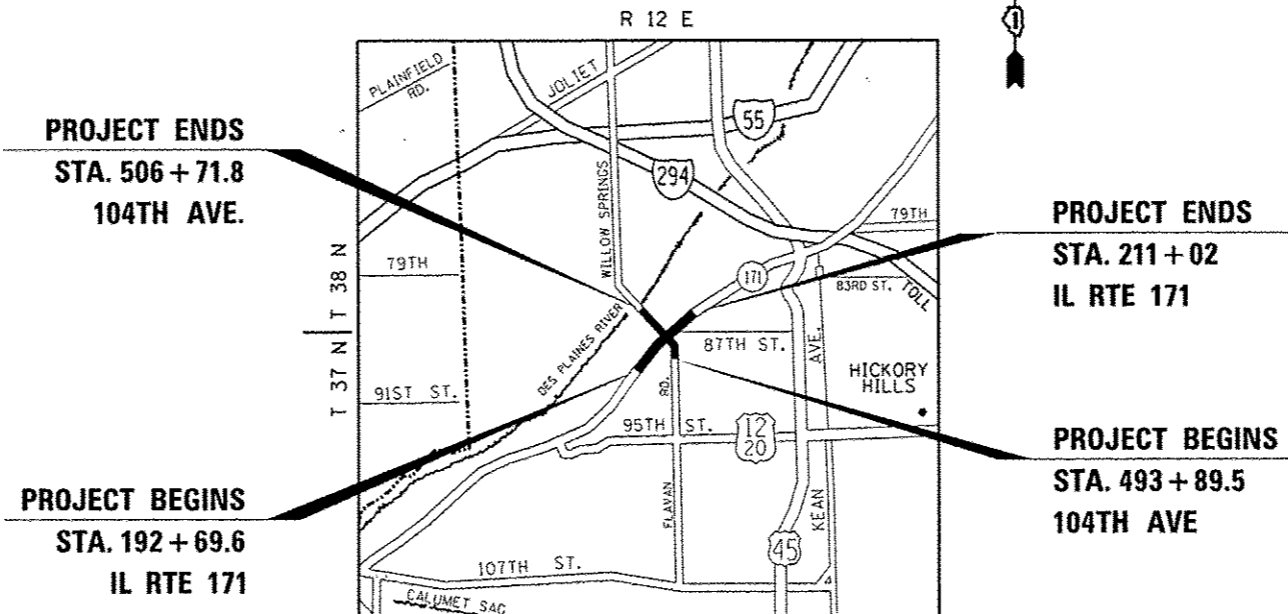
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF WILLOW SPRINGS

**FAU ROUTE 3565: IL. RTE. 171 (ARCHER AVENUE)**  
**AT 104TH AVENUE /WILLOW SPRINGS ROAD**  
**SECTION: B-N-5**  
**PROJECT: ACHSIP-3565 (006)**  
**INTERSECTION IMPROVEMENT**  
**RESURFACING**  
**COOK COUNTY**  
**C-91-312-12**

SN 016-0540  
 CARRIED: WILLOW SPRINGS ROAD

TRAFFIC DATA:  
 IL RTE 171 2010 ADT = 15,700  
 POSTED SPEED LIMIT = 35-40 MPH  
  
 104TH AVE 2010 ADT = 12,900  
 POSTED SPEED LIMIT = 40 MPH



**PROJECT ENDS**  
**STA. 506 + 71.8**  
**104TH AVE.**

**PROJECT ENDS**  
**STA. 211 + 02**  
**IL RTE 171**

**PROJECT BEGINS**  
**STA. 192 + 69.6**  
**IL RTE 171**

**PROJECT BEGINS**  
**STA. 493 + 89.5**  
**104TH AVE**

LYONS AND PALOS TOWNSHIPS

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 JEAN ALAIN MIDY (847) 221-3056**  
**PROJECT MANAGER ISSAM RAYYAN (847) 705-4178**

IL. RTE. 171 /ARCHER AVE - GROSS AND NET LENGTH = 1832.4 FT. = 0.347 MILE  
 104TH AVE./WILLOW SPRINGS RD. - GROSS AND NET LENGTH = 1282.3 FT. = 0.243 MILE  
 TOTAL GROSS AND NET LENGTH = 3114.7 FT. = 0.59 MILE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED December 5 20 13

*John F. ...*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 24 20 14  
*John D. Baranzelli, P.E.*  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

Jan 24 20 14  
*Omer Osman, P.E.*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY**  
**OF THE STATE OF ILLINOIS**

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- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-07 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424006-01 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424011-01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424016-01 MID-BLOCK CURB RAMPS FOR SIDEWALKS
- 424021-02 DEPRESSED CORNER FOR SIDEWALKS
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 602301-04 INLET - TYPE A
- 602401-03 MANHOLE TYPE A
- 602406-06 MANHOLE TYPE A 6' (1.8 m) DIAMETER
- 602601-03 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604001-03 FRAME AND LIDS TYPE 1
- 604036-02 GRATE TYPE B
- 604091-02 FRAME AND GRATE TYPE 24
- 606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-09 TRAFFIC BARRIER TERMINAL, TYPE 2
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-04 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701427-02 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSIBLE MEDIAN
- 701606-09 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-03 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 814001-02 HANDHOLES

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF WILLOW SPRINGS.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED).

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER, WITH THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAMES AND LIDS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE PROJECT LIMITS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

SIDEWALK REMOVAL AND P.C.C. SIDEWALK, 5" LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT JERNARD PERKINS, AREA TRAFFIC FIELD ENGINEER (OR TECHNICIAN), AT (708) 524-2145 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM AND FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

FILE NAME : c:\p\work\p\dot\paraynaal\0160753\p\	USER NAME : paraynaal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS &amp; GENERAL NOTES</b>		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	2709-shi-gennote.dgn	DRAWN -	REVISED -				3565	8-N-5	COOK	129	2	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60124		
	PLOT DATE = 12/13/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

MSB-11 MSB-11 MSB-11 MSB-11 OTRW OTRW

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE; MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP												
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	21	21																	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60	60																	
20101000	TEMPORARY FENCE	FOOT	1971	1971																	
20101100	TREE TRUNK PROTECTION	EACH	2	2																	
20101200	TREE ROOT PRUNING	EACH	4	4																	
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	10	10																	
20200100	EARTH EXCAVATION	CU YD	50	50																	
20400800	FURNISHED EXCAVATION	CU YD	3490	3490																	
20800150	TRENCH BACKFILL	CU YD	920	920																	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3272	3272																	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	72																	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72	72																	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	72																	
25100135	MULCH, METHOD 4	ACRE	0.8	0.8																	
25200110	SODDING, SALT TOLERANT	SQ YD	3865	3865																	

FILE NAME =	USER NAME = perayna	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwr\hwt\pwr\perayna\4160753\142709-ah\pwr\hwt\hwt.dwg		DRAWN -	REVISED -		3965	B-N-5	COOK	129	3				
PLOT SCALE = 1000000' / 1"		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 60T24				
PLOT DATE = 12/12/2013		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE; MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
25200200	SUPPLEMENTAL WATERING	UNIT	45	45																
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	81	81																
28000305	TEMPORARY DITCH CHECKS	FOOT	84	84																
28000400	PERIMETER EROSION BARRIER	FOOT	1760	1760																
28000510	INLET FILTERS	EACH	43	43																
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	141	141																
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1763	1763																
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1673					1673												
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	993	993																
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	670	670																
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9251	9251																
<del>40600300</del>	<del>AGGREGATE (PRIME COAT)</del>	<del>TON</del>	<del>17</del>	<del>17</del>																
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3																
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	528	528																

Rev.

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP													
40600895	CONSTRUCTING TEST STRIP	EACH	1	1																		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	198	198																		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	16	16																		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	357	75				282														
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1454	1454																		
42001300	PROTECTIVE COAT	SQ YD	2364	2364																		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5107	35				5072														
42400800	DETECTABLE WARNINGS	SQ FT	200	200																		
44000100	PAVEMENT REMOVAL	SQ YD	103	103																		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	1849	1849																		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2264	2264																		
44000600	SIDEWALK REMOVAL	SQ FT	6857	6857																		
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SQ YD	110	110																		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	205	205																		

Rev.

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP																		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	25	25																							
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	185	185																							
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	5	5																							
<del>60100100</del>	<del>REMOVAL OF EXISTING STRUCTURES</del>	<del>EACH</del>	<del>1</del>	<del>1</del>																							
50102400	CONCRETE REMOVAL	CU YD	38.5	5.5			33																				
50157300	PROTECTIVE SHIELD	SQ YD	2320			2320																					
50200100	STRUCTURE EXCAVATION	CU YD	80				80																				
50300225	CONCRETE STRUCTURES	CU YD	145				145																				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	33			33																					
50300260	BRIDGE DECK GROOVING	SQ YD	268			268																					
50300285	FORM LINER TEXTURED SURFACE	SQ FT	3166				3166																				
50300300	PROTECTIVE COAT	SO YD	469			469																					
50500505	STUD SHEAR CONNECTORS	EACH	438				438																				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	16130			4430	11700																				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	478	478																							
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	139	139																							

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Rev.

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE															
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0014	0040	0028	0021										
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	80% STATE 20% WILLOW SPRINGS	100% WILLOW SPRINGS	STATE URBAN	TRAFFIC SIGNALS	BRIDGE; MEDIAN WORK	RETAINING WALL	SHARED PATH SIDEWALK	EVP				
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	426	426															
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	575	575															
550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	30	30															
550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	15	15															
550A4100	STORM SEWERS, CLASS A, TYPE 1	FOOT	147	147															
	EQUIVALENT ROUND-SIZE 24"																		
55100500	STORM SEWER REMOVAL 12"	FOOT	1350	1350															
55100700	STORM SEWER REMOVAL 15"	FOOT	117	117															
55101200	STORM SEWER REMOVAL 24"	FOOT	237	237															
58700300	CONCRETE SEALER	SQ FT	3098				3098												
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	220				220												
60107600	PIPE UNDERDRAINS 4"	FOOT	650	650															
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	35	35															
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1															
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1															

14

Rev.

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DATE :	DATE :	DRAWN :	REVISED :			3565	B-N-5	COOK	129	7
PLOT SCALE :	PLOT DATE :	CHECKED :	REVISED :			CONTRACT NO. 60T24				
PLOT DATE :	DATE :	REVISED :	REVISED :			SCALE:		SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP												
60201340	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	21	21																	
60204505	CATCH BASINS, TYPE A, 5' -DIAMETER, TYPE 8 GRATE	EACH	1	1																	
60205040	CATCH BASINS, TYPE A, 5' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1																	
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4																	
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13	13																	
Δ 60255410	CATCH BASINS TO BE CLEANED	EACH	27	27																	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1																	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	10	10																	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1																	
60500050	REMOVING CATCH BASINS	EACH	5	5																	
60500060	REMOVING INLETS	EACH	8	8																	

Δ 100% STATE (NP)



SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
60602800	CONCRETE GUTTER, TYPE B	FOOT	267				267													
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	468	468																
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2109	2109																
60618740	CONCRETE MEDIAN, TYPE M-2.12	SQ FT	2387	2387																
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	297	297																
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1																
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1																
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1																
63200310	GUARDRAIL REMOVAL	FOOT	297	297																
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1850	1850																
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1																
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10																
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6																

\* Specialty Items

FILE NAME :	USER NAME : 0019/2001	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)</b>				F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PROJECT NO: 0019/2001	DATE: 12/12/2013	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	3555	8-N-5	129	9
PLOT SCALE = 1000000 / 1in	DATE	CHECKED -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60T24			
PLOT DATE = 12/12/2013		DATE	REVISED -											

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	URBAN																		
			TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE/ MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP												
67100100	MOBILIZATION	L SUM	1	1																	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3																	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	583	583																	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7235	7235																	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3126	3126																	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	82	82																	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	471	471																	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	262	262																	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	825	825																	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	15		15																
* 72000200	SIGN PANEL - TYPE 2	SQ FT	65		65																
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	583	583																	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7235	7235																	
14* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3126	3126																	
*Specialty Items																					

FILE NAME : USER NAME :  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)

F.A.U.  
RTE.  
SECTION  
COUNTY  
TOTAL SHEETS  
SHEET NO.

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

COOK 129 10  
CONTRACT NO. 60T24  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE; MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP													
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	82	82																		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	471	471																		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	262	262																		
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	150	150																		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	153	153																		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4																		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1																		
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	130	130																		
* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1																	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	886		886																	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	24		24																	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	513		513																	
* 81400100	HANDHOLE	EACH	4		4																	
	* Specialty Items																					

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		3565	8-N-5	COOK	129	11				
		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				
		DATE -	REVISED -						CONTRACT NO. 60T24				

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP													
* 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4																	
* 81400300	DOUBLE HANDHOLE	EACH	2		2																	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1																	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1344		1344																	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2313		2313																	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2605		2605																	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1663		1663																	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2000		2000																	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	160		160																	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	600		600																	
			<i>* Specialty Items</i>																			

FILE NAME: c:\pwork\1142709\1142709.dwg	USER NAME: jerryroaf	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE: 100,000' / in.		PLOT DATE: 12/12/2013	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U. RTE. 3565	SECTION B-N-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 12
CONTRACT NO. 60T24				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE																					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP															
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2																			
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1																			
* 87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1																			
* 87702574	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 54 FT.	EACH	1		1																			
* 87702719	STEEL MAST ARM ASSEMBLY & POLE WITH DUAL MAST ARMS, 46 FT. & 34 FT.	EACH	1		1																			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8																			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4																			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26		26																			
* 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42		42																			
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10		10																			
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5																			
			<i>*specialty items</i>																					

Rev.

FILE NAME =	USER NAME = jpry/m001	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)				F.A.U. RTE. 3565	SECTION B-N-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 13
C:\pwr\work\171\104th\pwr\m001\00160153\1142709.dwg		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		CHECKED -	REVISED -								CONTRACT NO. 60T24		
		DATE -	REVISED -										

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE/ MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP												
* 88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1																
* 88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1																
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4																
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2																
* 88200100	TRAFFIC SIGNAL BACKPLATE	EACH	15		15																
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10																
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1036		1036																
* 88700200	LIGHT DETECTOR	EACH	3						3												
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1						1												
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8																
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1																

\*specialty items

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1															
* 89502380	REMOVE EXISTING HANDHOLE	EACH	7		7															
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1															
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9															
* A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4																
* B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	2	2																
* D2002984	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	6	6																
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	12	12																
* X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	10,928				10,928													
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2																
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	4																
	*Specialty Items																			

Rev.

FILE NAME :	USER NAME : borayroot	DESIGNED -	REVISED -
C:\per_work\104th\borayroot\001027.55.P142109.dwg		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)

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

F.A.U. RTE. 3565	SECTION B-N-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 15
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T24	

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1300	1300																
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	400	400																
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	370				370													
X6020094	MANHOLES, TYPE A, 6' -DIAMETER, TYPE I FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	2	2																
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	20																
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1																
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	1080	1080																
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	4290	4290																
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	1350	1350																
X7030050	WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH	FOOT	285	285																

△ 100% STATE (NP)

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\171\104\paray\171-104-101-114-101-114.dgn	paray	DRAWN :	REVISED :			3565	B-N-5	COOK	129	16
PLOT SCALE : 1/8" = 1'-0"		CHECKED :	REVISED :			CONTRACT NO. 60T24				
PLOT DATE : 12/12/2003		DATE :	REVISED :			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE, MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	240	240																
* X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1															
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1															
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	803		803															
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	290			290														
* Z0007118	UNTREATED TIMBER LAGGING	SQ FT	2743				2743													
Z0012146	BRIDGE DECK SCARIFICATION 2 3/4"	SQ YD	290			290														
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1																
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	13			13														
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	10			10														
Z0026404	FURNISHING SOLDIER PILES (W SECTION)	FOOT	1623				1623													
Z0026407	TEMPORARY SHEET PILING	SQ FT	400				400													
Ø Z0076600	TRAINEES	hour	1000	1000																
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	hour	1000	1000																

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
DATE =		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

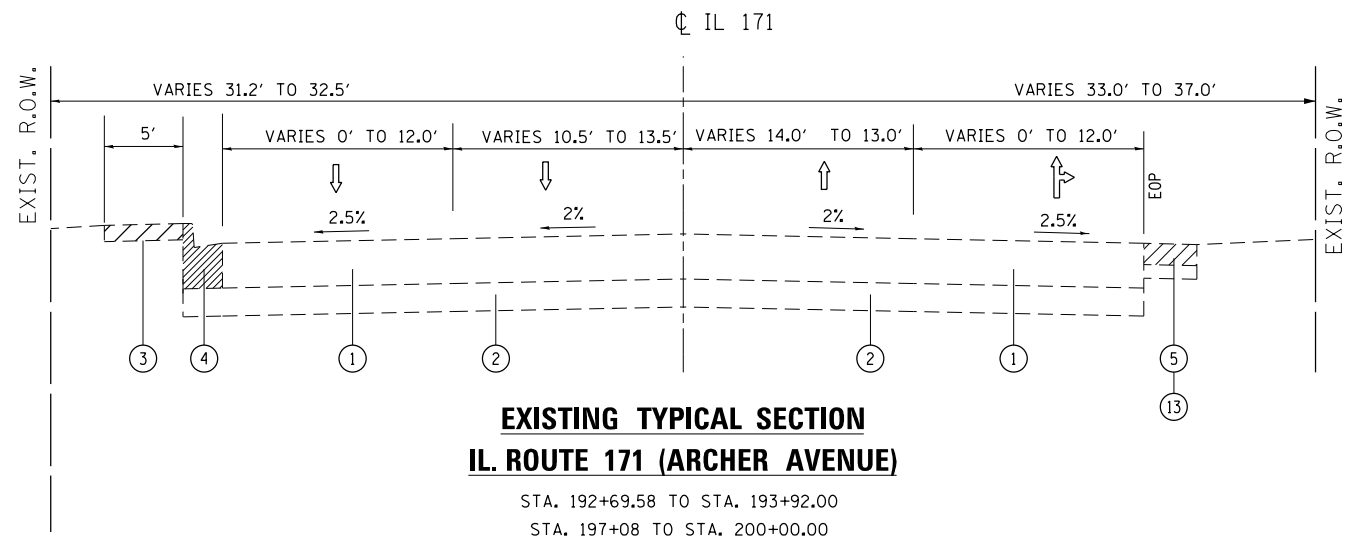
SUMMARY OF QUANTITIES			
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 3565	SECTION B-H-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 17
CONTRACT NO. 60T24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Ø 0042

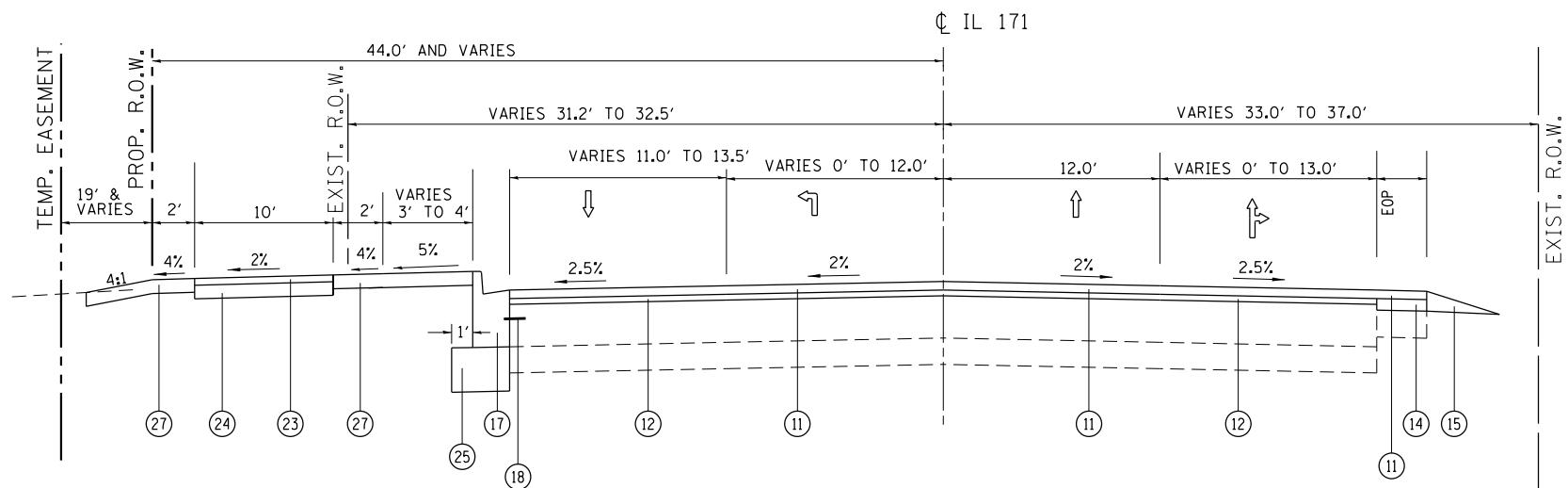
\* Specialty Items





**EXISTING TYPICAL SECTION  
IL. ROUTE 171 (ARCHER AVENUE)**

STA. 192+69.58 TO STA. 193+92.00  
STA. 197+08 TO STA. 200+00.00



**PROPOSED TYPICAL SECTION  
IL. ROUTE 171 (ARCHER AVENUE)**

STA. 192+69.58 TO STA. 193+92.00  
STA. 197+08 TO STA. 200+00.00

•SHARED PATH  
STA. 195+62.94 TO STA. 199+58.73  
•EXISTING SIDEWALK  
STA. 192+69.58 TO STA. 195+62.94

**LEGEND**

- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.)  
(SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS)  
(SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F")
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE,  
COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM),  
IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM),  
IL-4.75, N50  
(FOR MILLED EXISTING HMA SHOULDER. TO MATCH ROADWAY  
POLYMERIZED LEVELING BINDER. SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED  
DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C,  
(COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST  
INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT  
(FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6")  
AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED  
WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT)  
ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW  
SPRINGS ROAD.

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH  
PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00  
ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON  
WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL  
BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY  
THE RESIDENT ENGINEER.

FOR HMA MIX REQUIREMENTS,  
SEE SCHEDULE OF QUANTITIES SHEET

USER NAME = paraynoal	DESIGNED TWR	REVISED - 04/14/2011
PLOT CONFIG = \$PLTDRVS*	DRAWN TWR	REVISED - 06/15/2011
PLOT SCALE = \$SCALESHORT*	CHECKED RJW	REVISED - 01/20/2012
PLOT DATE = 12/13/2013	DATE 02/15/2011	REVISED - 07/26/2012

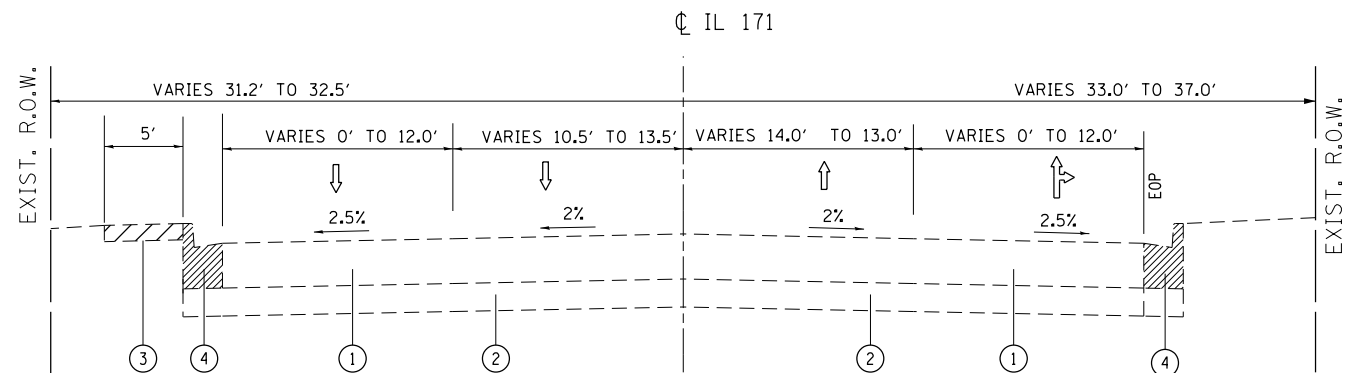
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)**

SCALE: NTS

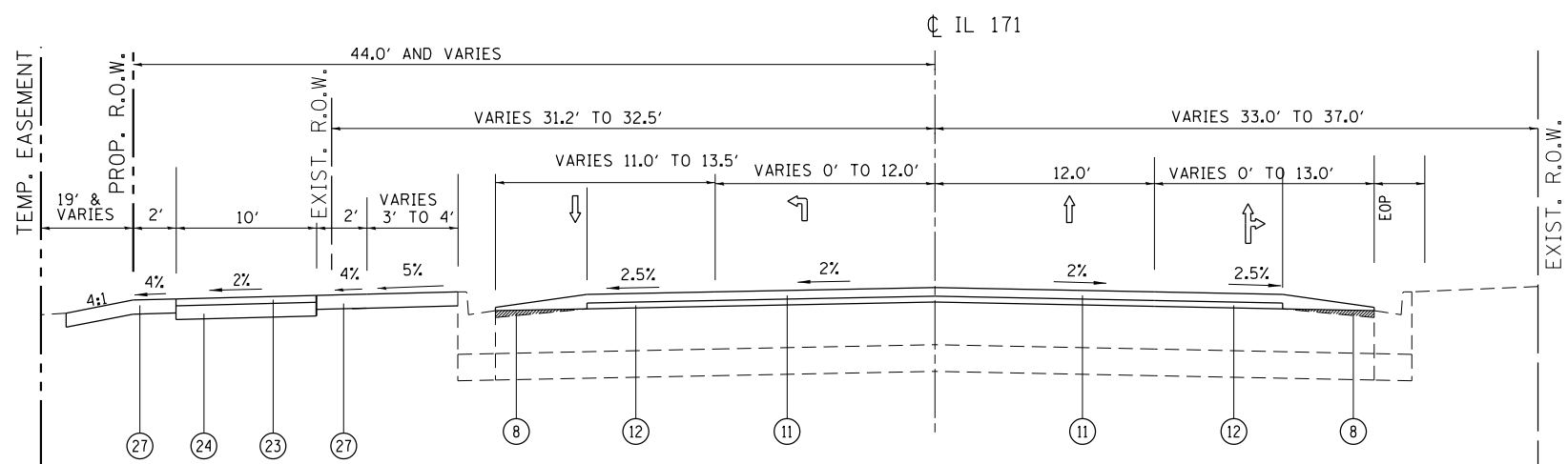
SHEET NO. 1 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	19
CONTRACT NO.			60T24	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION  
IL. ROUTE 171 (ARCHER AVENUE)**

STA. 193+92 TO STA. 197+08



**PROPOSED TYPICAL SECTION  
IL. ROUTE 171 (ARCHER AVENUE)**

STA. 193+92 TO STA. 197+08

•SHARED PATH  
STA. 195+62.94 TO STA. 199+58.73  
•EXISTING SIDEWALK  
STA. 192+69.58 TO STA. 195+62.94

**LEGEND**

- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.)  
(SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS)  
(SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F")
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE,  
COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM),  
IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM),  
IL-4.75, N50  
(FOR MILLED EXISTING HMA SHOULDER. TO MATCH ROADWAY  
POLYMERIZED LEVELING BINDER. SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED  
DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C,  
(COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST  
INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT  
(FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6")  
AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED  
WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT)  
ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW  
SPRINGS ROAD.

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH  
PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00  
ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON  
WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL  
BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED  
BY THE RESIDENT ENGINEER.

FOR HMA MIX REQUIREMENTS,  
SEE SCHEDULE OF QUANTITIES SHEET

USER NAME = paraynoal	DESIGNED TWR	REVISED - 04/14/2011
PLOT CONFIG = \$PLTDRVS*	DRAWN TWR	REVISED - 06/15/2011
PLOT SCALE = \$SCALESHORT*	CHECKED RJW	REVISED - 01/20/2012
PLOT DATE = 12/13/2013	DATE 02/15/2011	REVISED - 07/26/2012

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

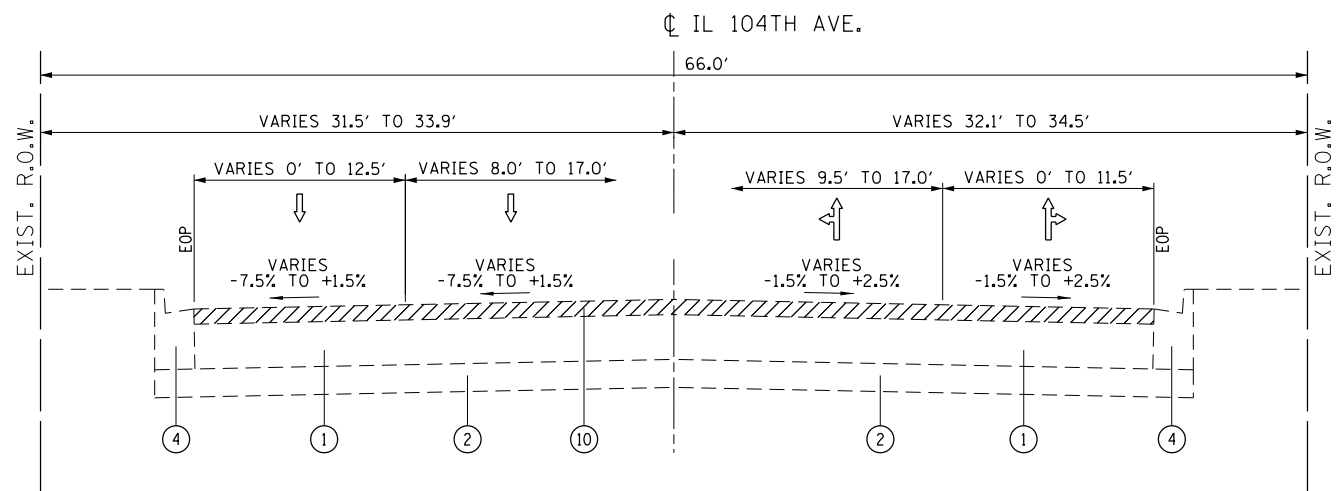
**TYPICAL SECTIONS  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)**

SCALE: NTS

SHEET NO. 1 OF 5 SHEETS

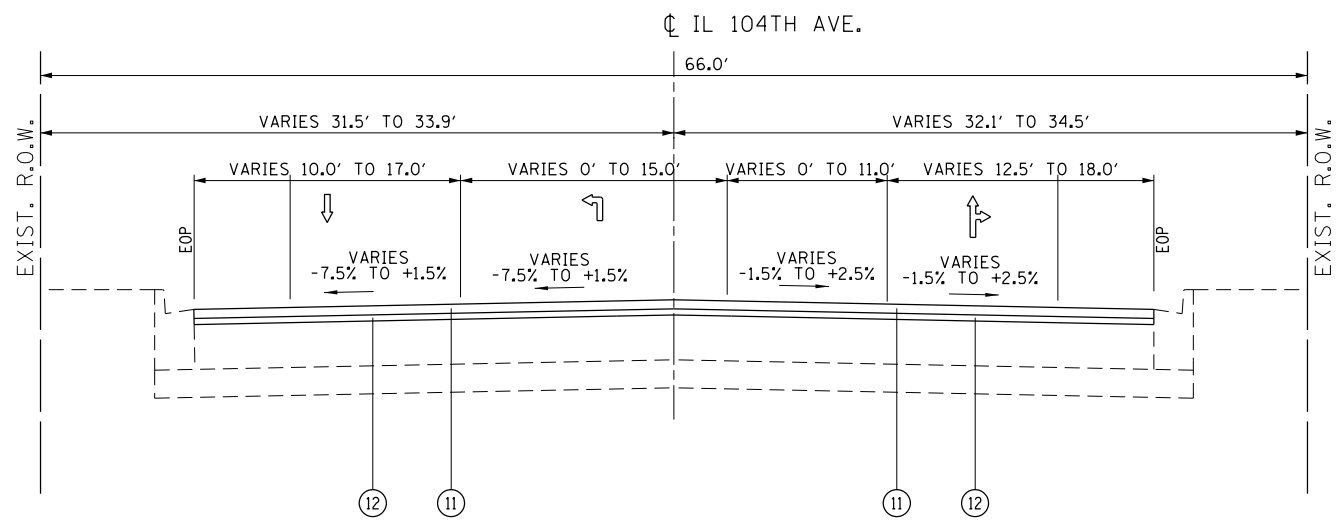
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	20
CONTRACT NO.			60T24	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





**EXISTING TYPICAL SECTION  
104TH AVENUE**

STA. 493+89.45 TO STA. 497+28.1



**PROPOSED TYPICAL SECTION  
104TH AVENUE**

STA. 493+89.45 TO STA. 497+28.1

**LEGEND**

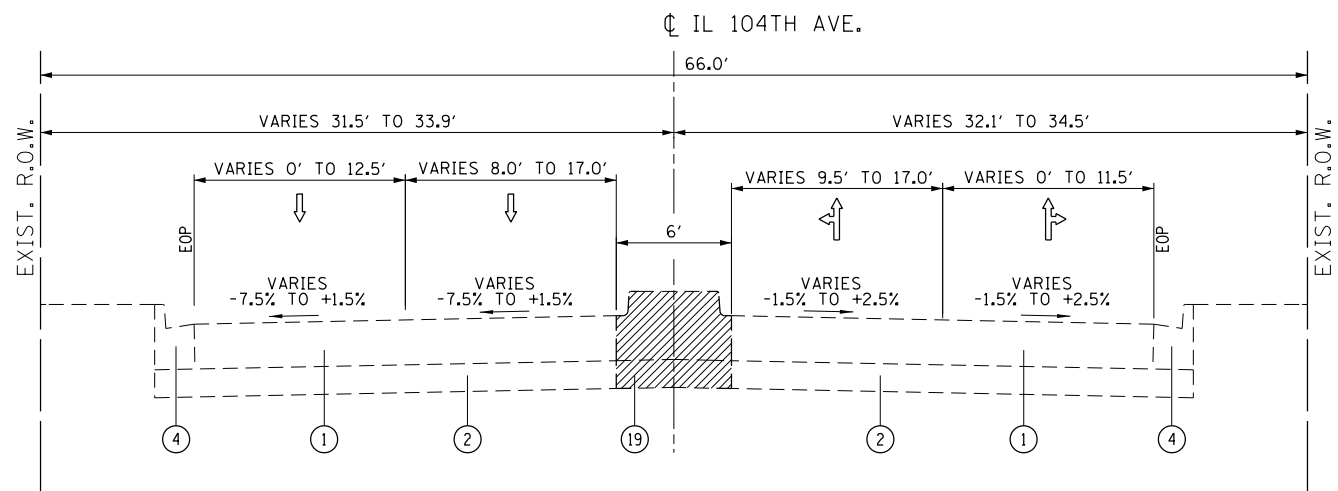
- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.) (SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS) (SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F" )
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE, COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 (FOR MILLED EXISTING HMA SHOULDER, TO MATCH ROADWAY POLYMERIZED LEVELING BINDER. SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C, (COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6") AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT) ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW SPRINGS ROAD.

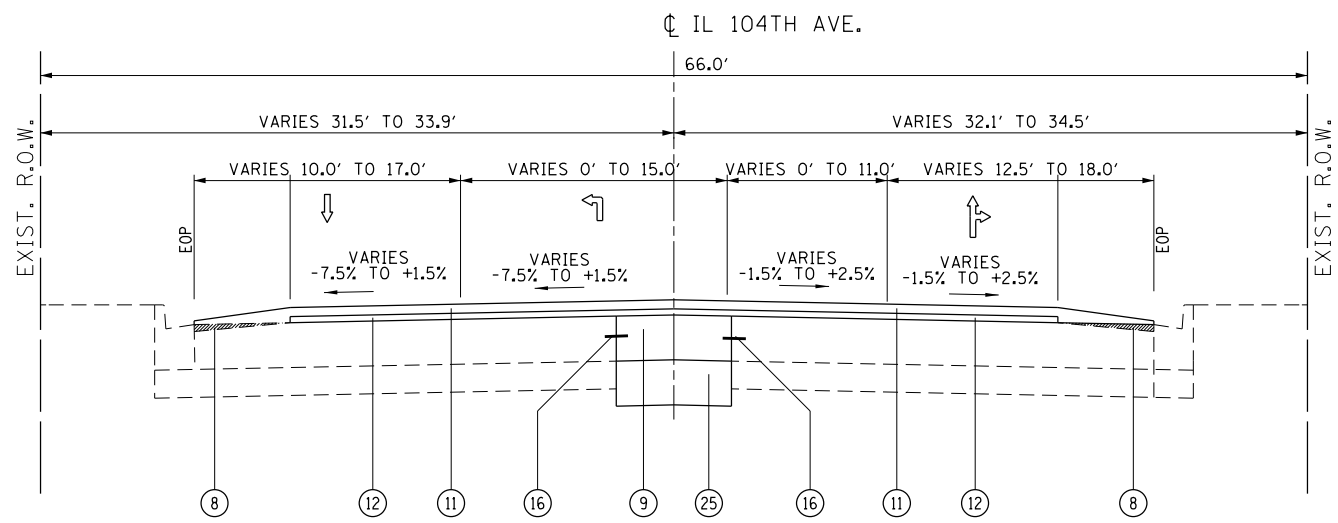
PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00 ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.

USER NAME = paraynoal PLOT CONFIG = \$PLTDRVS\$ PLOT SCALE = \$SCALES\$ PLOT DATE = 12/13/2013	DESIGNED TWR	REVISED - 04/14/2011	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b> <b>IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN TWR	REVISED - 06/15/2011		3565	B-N-5	COOK	129	22		
	CHECKED RJW	REVISED - 01/20/2012		SCALE: NTS      SHEET NO. 3 OF 5 SHEETS		<b>CONTRACT NO. 60T24</b>		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
	DATE 02/15/2011	REVISED - 07/26/2012								



**EXISTING TYPICAL SECTION  
104TH AVENUE**

STA. 497+28.1 TO STA. 500+00.00



**PROPOSED TYPICAL SECTION  
104TH AVENUE**

STA. 497+28.1 TO STA. 500+00.00

**LEGEND**

- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.) (SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS) (SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F")
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE, COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 (FOR MILLED EXISTING HMA SHOULDER, TO MATCH ROADWAY POLYMERIZED LEVELING BINDER, SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C, (COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6") AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT) ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW SPRINGS ROAD.

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00 ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.

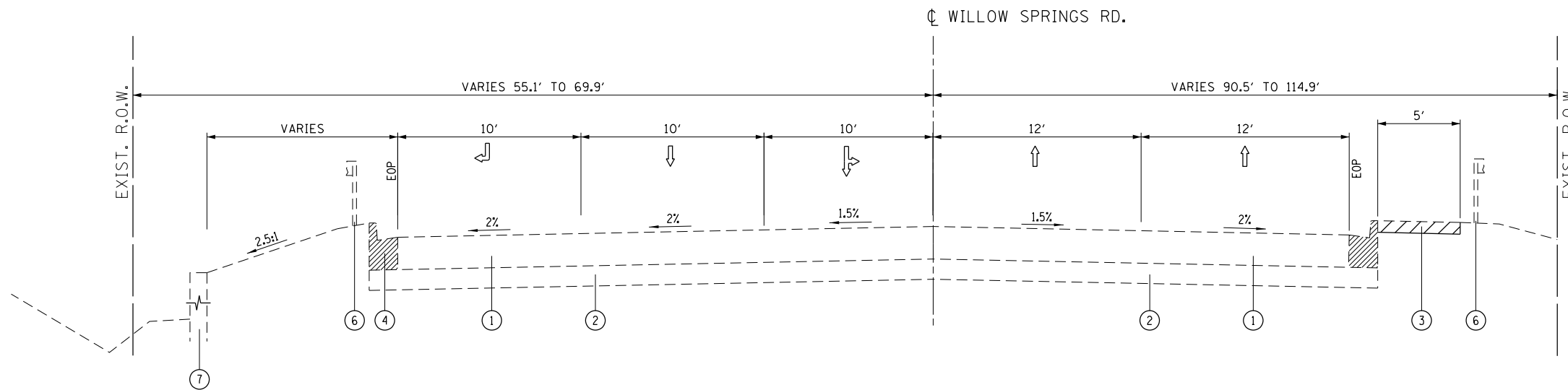
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PLOT CONFIG = \$PLTDRVS*	DRAWN TWR	REVISED - 06/15/2011
PLOT SCALE = \$SCALESORT*	CHECKED RJW	REVISED - 01/20/2012
PLOT DATE = 12/13/2013	DATE 02/15/2011	REVISED - 07/26/2012

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	23
CONTRACT NO.			60T24	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: NTS SHEET NO. 3 OF 5 SHEETS



•GUARDRAIL  
STA. 501+76.81 TO STA. 503+79.61

•RETAINING WALL  
STA. 501+80.43 TO STA. 503+79.61

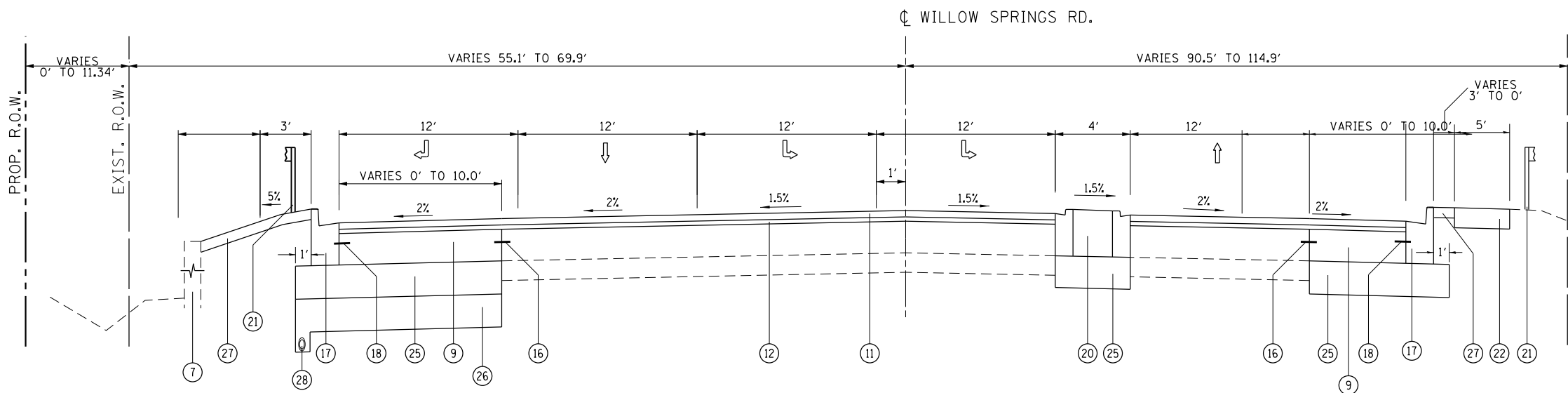
**EXISTING TYPICAL SECTION**  
**WILLOW SPRINGS ROAD**

STA. 500+00.00 TO STA. 502+81.6

•GUARDRAIL  
STA. 501+00 TO STA. 503+79.61

**LEGEND**

- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.) (SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS) (SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F")
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE, COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 (FOR MILLED EXISTING HMA SHOULDER. TO MATCH ROADWAY POLYMERIZED LEVELING BINDER. SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C, (COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6") AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"



•GUARDRAIL  
STA. 503+35.86 TO STA. 501+35.86

**PROPOSED TYPICAL SECTION**  
**WILLOW SPRINGS ROAD**

STA. 500+00.00 TO STA. 502+81.6

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT) ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW SPRINGS ROAD.

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00 ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.

USER NAME = paraynoal	DESIGNED TWR	REVISED - 04/14/2011
PLOT CONFIG = \$PLTDRVS\$	DRAWN TWR	REVISED - 06/15/2011
PLOT SCALE = \$SCALES\$	CHECKED RJW	REVISED - 01/20/2012
PLOT DATE = 12/13/2013	DATE 02/15/2011	REVISED - 07/26/2012

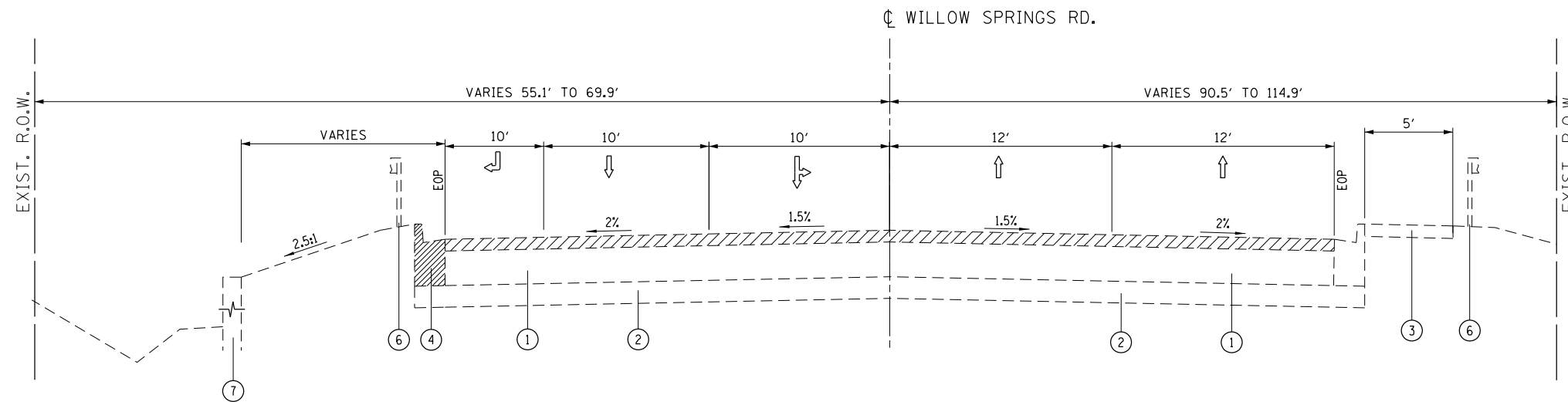
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**  
**IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	24
CONTRACT NO.			60T24	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET NO. 4 OF 5 SHEETS





•GUARDRAIL  
STA. 501+76.81 TO STA. 503+79.61

•RETAINING WALL  
STA. 501+80.43 TO STA. 503+79.61

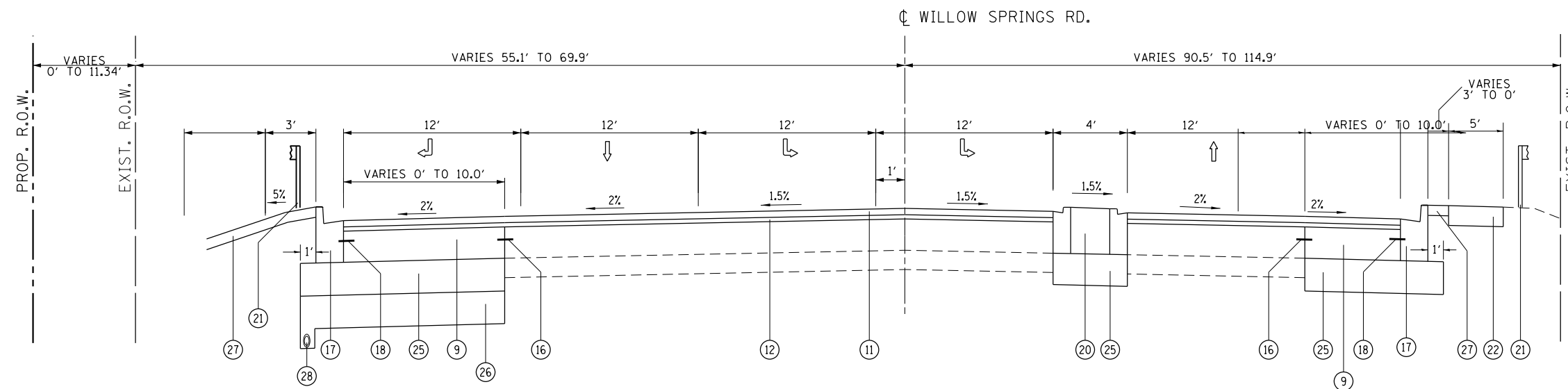
**EXISTING TYPICAL SECTION  
WILLOW SPRINGS ROAD**

STA. 502+81.6 TO STA. 503+79.61

•GUARDRAIL  
STA. 501+00 TO STA. 503+79.61

**LEGEND**

- ① EXISTING P.C.C. PAVEMENT, 10"
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING P.C.C. SIDEWALK
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING GUARDRAIL
- ⑦ EXISTING RETAINING WALL
- ⑧ PROPOSED P.C.C. VARIABLE SURFACE REMOVAL (TYP.) (SEE EXIST. AND PROP. PLANS FOR EXACT LOCATIONS) (SEE BD-33 FOR THICKNESS VARIATION FOR MIX "F" )
- ⑨ PROPOSED PCC BASE COURSE, 10"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED POLY. HMA SURFACE, COURSE MIX "F" N90 1 3/4"
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 3/4"
- ⑬ PROPOSED HMA SURFACE REMOVAL, 1/4"
- ⑭ PROPOSED 1" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50 (FOR MILLED EXISTING HMA SHOULDER. TO MATCH ROADWAY POLYMERIZED LEVELING BINDER. SEE PLAN FOR EXACT LOCATION)
- ⑮ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROPOSED DRILL & GROUT (#8) EPOXY COATED DEFORMED STEEL TIE BAR, 24" LONG, 24" C-C, (COST INCLUDED IN P.C.C. BASE COURSE, 10")
- ⑰ PROPOSED CURB & GUTTER, TYPE B-6.24
- ⑱ PROPOSED (#8) TIE BARS (EPOXY COATED) AT 24" CC (COST INCLUDED IN COMB. CONC. CURB AND GUTTER, TYPE B-6.24)
- ⑲ PROPOSED EXISTING P.C.C. MEDIAN REMOVAL
- ⑳ PROPOSED CONCRETE MEDIAN, TYPE M-2.12
- ㉑ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ㉒ PROPOSED P.C.C. SIDEWALK
- ㉓ PROPOSED HMA SURFACE CRSE, MIX "D", N50, 2"
- ㉔ PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ㉕ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ㉖ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (FOR 12" UNDERCUT)
- ㉗ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (6") AND SODDING, SALT TOLERANT
- ㉘ PROPOSED PIPE UNDERDRAIN, 4"



•GUARDRAIL  
STA. 503+35.86 TO STA. 501+35.86

SEE "BRIDGE WORK DETAILS FROM CONSULTING" SHEETS FOR PROPOSED RETAINING WALL AND PROPOSED MEDIAN

**PROPOSED TYPICAL SECTION  
WILLOW SPRINGS ROAD**

STA. 502+81.6 TO STA. 503+79.61

NOTE:  
18" OF EXISTING TOPSOIL TO BE STRIPPED AND REUSED WITHIN LIMITS OF THE PROJECT

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" UNDERCUT) ON THE WIDENING IS FROM STATION 500+50 TO 502+50 ON WILLOW SPRINGS ROAD.

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO 207+00 ON ARCHER AVENUE AND FROM STATION 500+50 TO 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.

USER NAME = paraynoal	DESIGNED TWR	REVISED - 04/14/2011
PLOT CONFIG = \$PLTDRVS\$	DRAWN TWR	REVISED - 06/15/2011
PLOT SCALE = \$SCALES\$	CHECKED RJW	REVISED - 01/20/2012
PLOT DATE = 12/13/2013	DATE 02/15/2011	REVISED - 07/26/2012

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)**

SCALE: NTS SHEET NO. 4 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	25
CONTRACT NO.			60T24	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**EARTHWORK SCHEDULE**

1 LOCATION	2 EARTH EXCAVATION (CU. YD)	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU. YD)	4 EMBANKMENT (CU. YD)	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD)
IL. RTE. 171	50	43	2307	-2264
104TH AVE. / WILLOW SPRINGS RD.	0	0	1226	-1226
<b>TOTAL</b>	50	43	3533	-3490

COLUMNS 1, 2, & 4 LOCATION AND QUANTITIES FROM CROSS SECTIONS:  
CUT = EARTH EXCAVATION, FILL = EMBANKMENT

COLUMN 3 QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR SHRINKAGE FACTOR OF 15%.

COLUMN 5 EARTHWORK REQUIRED:  
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED (FURNISHED OR BORROW EXCAVATION)  
(+) = QUANTITY TO BE WASTED.

**LANDSCAPING SCHEDULE**

FAU 1600 (143RD STREET)	TOPSOIL EXCAVATION AND PLACEMENT (CU. YD)	TOPSOIL EXCAVATION AND PLACEMENT, 6" (SQ. YD.)	AREA OF TOPSOIL NEEDED (SQ. YD.)	EXCESS OF TOPSOIL TO BE MOVED (SQ. YD.)
IL. RTE. 171	788	4728	614	4114
1104TH AVE. / WILLOW SPRINGS RD.	2484	14904	908	13996
<b>TOTAL</b>	3272	19632	1522	18110

**TREE REMOVAL SCHEDULE**

ROADWAY	STATION AND OFFSET	6 TO 15 UNITS	OVER 15 UNITS
IL. RTE. 171	198+76.2 / 41.5 L	6	
	198+94.7 / 41.9 L	7	
	199+01.5 / 37.7 R		24
	202+06.2 / 33.8 R		36
104TH AVE. / WILLOW SPRINGS RD.	501+13.3 / 69.6 R	8	
<b>TOTAL</b>		21	60

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE TYPE	AIR VOIDS (%) @ Ndes	OMP
<b>RESURFACING AND OVERLAY OVER EXISTING PCC</b>		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	OC / OA
<b>WIDENING</b>		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	OC / OA
<b>HMA SHOULDER RESURFACING</b>		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1 1/2"	3.5% @ 50 GYR.	OC / OA
<b>HOT-MIX ASPHALT PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19 mm), 10"	4% @ 70 GYR.	OC / OA
<b>HMA REPLACEMENT OVER PATCHES</b>		
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	OC / OA
<b>SHARED PATH</b>		
HMA SURFACE COURSE MIX "D", N50 (IL-9.5mm), 2"	4% @ 50 GYR.	OC / OA
<b>HMA DRIVEWAY (C.E.)</b>		
HMA SURFACE COURSE MIX "D", N50, (IL-9.5mm), 2"	4% @ 50 GYR.	OC / OA
HMA BASE COURSE (IL-19mm), 8"	4% @ 50 GYR.	OC / OA

OMP Designation: Quality Control/Quality Assurance (OC/OA); Quality Control for Performance (OCP).

**NOTES:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE MIXTURE.

PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING THE ROADWAY SURFACE, PER BD-22 DETAIL

EXIST. CURVE 171C1 PI STA. = 208+70.15  
 $\Delta = 16^\circ 55' 12''$  (RT)  
 $D = 1^\circ 28' 00''$   
 $R = 3,906.32'$   
 $T = 581.02'$   
 $L = 1,153.58'$   
 $E = 42.97'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 202+89.13$   
 $P.T. STA. = 214+42.71$

EXIST. CURVE 171C2 PI STA. = 217+61.10  
 $\Delta = 4^\circ 11' 36''$  (RT)  
 $D = 1^\circ 51' 59''$   
 $R = 3,069.97'$   
 $T = 112.39'$   
 $L = 224.68'$   
 $E = 2.06'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 216+48.71$   
 $P.T. STA. = 218+73.39$

EXIST. CURVE 171C3 PI STA. = 225+43.47  
 $\Delta = 0^\circ 49' 46''$  (LT)  
 $D = 0^\circ 14' 41''$   
 $R = 23,423.41'$   
 $T = 169.53'$   
 $L = 339.05'$   
 $E = 0.61'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 223+73.94$   
 $P.T. STA. = 227+13.00$

EXIST. CURVE 171C4 PI STA. = 228+53.46  
 $\Delta = 3^\circ 20' 46''$  (RT)  
 $D = 1^\circ 11' 29''$   
 $R = 4,808.92'$   
 $T = 140.46'$   
 $L = 280.84'$   
 $E = 2.05'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 227+13.00$   
 $P.T. STA. = 229+93.84$

EXIST. CURVE E.104TH-1 PI STA. = 498+98.09  
 $\Delta = 20^\circ 40' 09''$  (LT)  
 $D = 13^\circ 13' 02''$   
 $R = 433.50'$   
 $T = 79.05'$   
 $L = 156.38'$   
 $E = 7.15'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 498+19.04$   
 $P.T. STA. = 499+75.42$

EXIST. CURVE E.104TH-2 PI STA. = 503+04.30  
 $\Delta = 70^\circ 55' 23''$  (LT)  
 $D = 14^\circ 55' 18''$   
 $R = 383.97'$   
 $T = 273.50'$   
 $L = 475.30'$   
 $E = 87.45'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 500+30.81$   
 $P.T. STA. = 505+06.11$

PROP. CURVE PRARCHERO1 PI STA. = 187+20.59  
 $\Delta = 4^\circ 25' 19''$  (RT)  
 $D = 1^\circ 02' 27''$   
 $R = 5,505.46'$   
 $T = 212.55'$   
 $L = 424.89'$   
 $E = 4.10'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 185+08.04$   
 $P.T. STA. = 189+32.93$

PROP. CURVE PRARCHERO2 PI STA. = 191+85.68  
 $\Delta = 9^\circ 01' 56''$  (RT)  
 $D = 1^\circ 47' 26''$   
 $R = 3,200.00'$   
 $T = 252.75'$   
 $L = 504.45'$   
 $E = 9.97'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 189+32.93$   
 $P.T. STA. = 194+37.39$

PROP. CURVE PRARCHERO3 PI STA. = 197+69.03  
 $\Delta = 3^\circ 58' 37''$  (RT)  
 $D = 1^\circ 59' 17''$   
 $R = 2,881.89'$   
 $T = 100.06'$   
 $L = 200.04'$   
 $E = 1.74'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 196+68.97$   
 $P.T. STA. = 198+69.01$

PROP. CURVE PRARCHERO4 PI STA. = 208+73.84  
 $\Delta = 2^\circ 58' 27''$  (RT)  
 $D = 1^\circ 11' 37''$   
 $R = 4,800.00'$   
 $T = 124.61'$   
 $L = 249.16'$   
 $E = 1.62'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 207+49.23$   
 $P.T. STA. = 209+98.39$

PROP. CURVE PRWILLOWO1 PI STA. = 494+41.69  
 $\Delta = 92^\circ 16' 18''$  (LT)  
 $D = 14^\circ 58' 45''$   
 $R = 382.50'$   
 $T = 397.97'$   
 $L = 615.99'$   
 $E = 169.49'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 490+43.72$   
 $P.T. STA. = 496+59.71$

PROP. CURVE PRWILLOWO2 PI STA. = 497+02.73  
 $\Delta = 7^\circ 02' 02''$  (LT)  
 $D = 8^\circ 11' 06''$   
 $R = 700.00'$   
 $T = 43.02'$   
 $L = 85.94'$   
 $E = 1.32'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 496+59.71$   
 $P.T. STA. = 497+45.65$

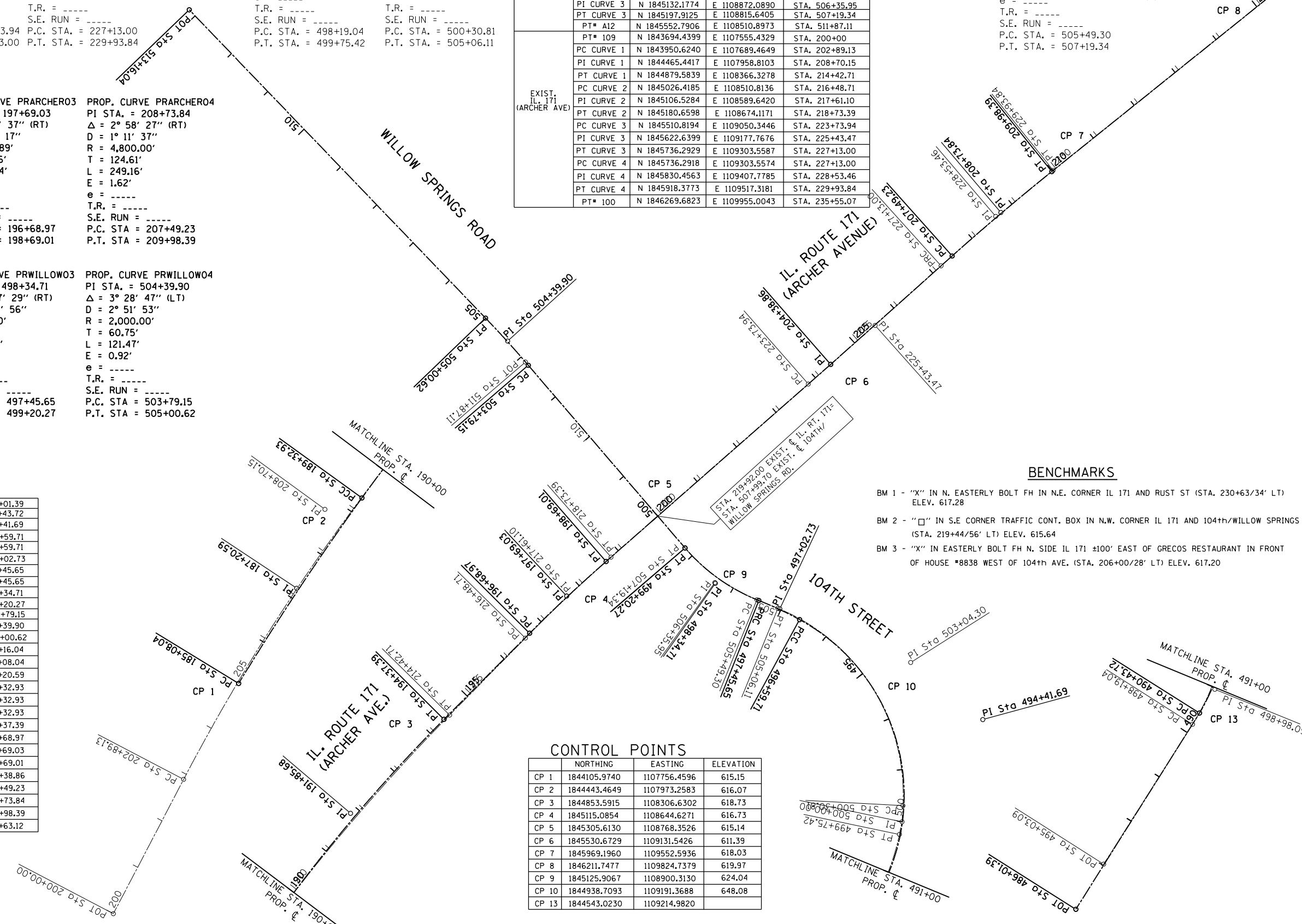
PROP. CURVE PRWILLOWO3 PI STA. = 498+34.71  
 $\Delta = 27^\circ 47' 29''$  (RT)  
 $D = 15^\circ 54' 56''$   
 $R = 360.00'$   
 $T = 89.06'$   
 $L = 174.62'$   
 $E = 10.85'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 497+45.65$   
 $P.T. STA. = 499+20.27$

PROP. CURVE PRWILLOWO4 PI STA. = 504+39.90  
 $\Delta = 3^\circ 28' 47''$  (LT)  
 $D = 2^\circ 51' 53''$   
 $R = 2,000.00'$   
 $T = 60.75'$   
 $L = 121.47'$   
 $E = 0.92'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 503+79.15$   
 $P.T. STA. = 505+00.62$

PROP. 104TH AVE. (WILLOW SPRINGS RD)	PT*WILLOW001	N 1844155.2528	E 1108943.0400	STA. 486+01.39
	PC CURVE 1	N 1844529.4696	E 1109178.8715	STA. 490+43.72
	PI CURVE 1	N 1844871.0276	E 1109383.1285	STA. 494+41.69
	PT CURVE 1	N 1845061.5862	E 1109033.7431	STA. 496+59.71
	PC CURVE 2	N 1845061.5862	E 1109033.7431	STA. 496+59.71
	PI CURVE 2	N 1845082.1860	E 1108995.9738	STA. 497+02.73
	PT CURVE 2	N 1845098.0056	E 1108955.9662	STA. 497+45.65
	PC CURVE 3	N 1845098.0056	E 1108955.9662	STA. 497+45.65
	PI CURVE 3	N 1845130.7552	E 1108873.1432	STA. 498+34.71
	PT CURVE 3	N 1845198.3437	E 1108815.1436	STA. 499+20.27
	PC CURVE 4	N 1845546.5836	E 1108516.3089	STA. 503+79.15
	PI CURVE 4	N 1845592.8332	E 1108476.9174	STA. 504+39.90
	PT CURVE 4	N 1843636.6068	E 1108434.7913	STA. 505+00.62
PROP. IL 171 (ARCHER AVE)	PT*WILLOW012	N 1846224.5167	E 1107869.7466	STA. 513+16.04
	PC CURVE 1	N 1844133.4865	E 1107794.3252	STA. 185+08.04
	PI CURVE 1	N 1844314.9248	E 1107905.0449	STA. 187+20.59
	PT CURVE 1	N 1844487.2864	E 1108029.4240	STA. 189+32.93
	PC CURVE 2	N 1844487.2864	E 1108029.4240	STA. 189+32.93
	PI CURVE 2	N 1844692.2450	E 1108177.3255	STA. 189+32.93
	PT CURVE 2	N 1844871.4431	E 1108355.5694	STA. 194+37.39
	PC CURVE 3	N 1845035.6326	E 1108518.8847	STA. 196+68.97
	PI CURVE 3	N 1845106.5744	E 1108589.4488	STA. 197+69.03
	PT CURVE 3	N 1845172.4513	E 1108664.7633	STA. 198+69.01
	PT*ARCHERO09	N 1845548.3229	E 1109093.0811	STA. 204+38.86
	PC CURVE 4	N 1845754.9936	E 1109324.6306	STA. 207+49.23
	PT CURVE 4	N 1845837.9680	E 1109417.5933	STA. 208+73.84
PT CURVE 4	N 1845916.0073	E 1109514.7360	STA. 209+98.39	
PT*ARCHERO13	N 1846269.6905	E 1109954.9977	STA. 215+63.12	

EXIST. 104TH AVE. (WILLOW SPRINGS RD)	PT* A10	N 1844241.2771	E 1108996.0716	STA. 495+03.09
	PC CURVE 1	N 1844507.9134	E 1109165.5770	STA. 498+19.04
	PI CURVE 1	N 1844574.6238	E 1109207.9860	STA. 498+98.09
	PT CURVE 1	N 1844652.0094	E 1109224.1186	STA. 499+75.42
	PT* A11	N 1844676.0706	E 1109229.1346	STA. 500+00
	PC CURVE 2	N 1844706.8288	E 1109230.8006	STA. 500+30.81
	PI CURVE 2	N 1844979.9266	E 1109245.5928	STA. 503+04.30
	PT CURVE 2	N 1845083.1646	E 1108992.3279	STA. 505+06.11
	PC CURVE 3	N 1845099.4709	E 1108952.3250	STA. 505+49.30
	PI CURVE 3	N 1845132.1774	E 1108872.0890	STA. 506+35.95
	PT CURVE 3	N 1845197.9125	E 1108815.6405	STA. 507+19.34
	PT* A12	N 1845552.7906	E 1108510.8973	STA. 511+87.11
	EXIST. IL 171 (ARCHER AVE)	PT* 109	N 1843694.4399	E 1107555.4329
PC CURVE 1		N 1843950.6240	E 1107689.4649	STA. 202+89.13
PI CURVE 1		N 1844465.4417	E 1107958.8103	STA. 208+70.15
PT CURVE 1		N 1844879.5839	E 1108366.3278	STA. 214+42.71
PC CURVE 2		N 1845026.4185	E 1108510.8136	STA. 216+48.71
PI CURVE 2		N 1845106.5284	E 1108589.6420	STA. 217+61.10
PT CURVE 2		N 1845180.6598	E 1108674.1171	STA. 218+73.39
PC CURVE 3		N 1845510.8194	E 1109050.3446	STA. 223+73.94
PI CURVE 3		N 1845622.6399	E 1109177.7676	STA. 225+43.47
PT CURVE 3		N 1845736.2929	E 1109303.5587	STA. 227+13.00
PC CURVE 4		N 1845736.2918	E 1109303.5574	STA. 227+13.00
PI CURVE 4		N 1845830.4563	E 1109407.7785	STA. 228+53.46
PT CURVE 4		N 1845918.3773	E 1109517.3181	STA. 229+93.84
PT* 100	N 1846269.6823	E 1109955.0043	STA. 235+55.07	

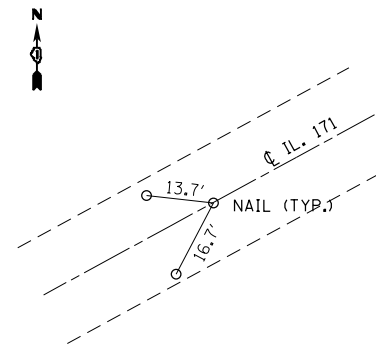
EXIST. CURVE E.104TH-3 PI STA. = 506+35.95  
 $\Delta = 27^\circ 10' 09''$  (RT)  
 $D = 15^\circ 58' 44''$   
 $R = 358.57'$   
 $T = 86.65'$   
 $L = 170.03'$   
 $E = 10.32'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 505+49.30$   
 $P.T. STA. = 507+19.34$



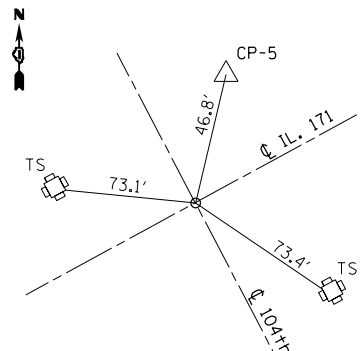
**CONTROL POINTS**

CP	NORTHING	EASTING	ELEVATION
CP 1	1844105.9740	1107756.4596	615.15
CP 2	1844443.4649	1107973.2583	616.07
CP 3	1844853.5915	1108306.6302	618.73
CP 4	1845115.0854	1108644.6271	616.73
CP 5	1845305.6130	1108768.3526	615.14
CP 6	1845530.6729	1109131.5426	611.39
CP 7	1845969.1960	1109552.5936	618.03
CP 8	1846211.7477	1109824.7379	619.97
CP 9	1845125.9067	1108900.3130	624.04
CP 10	1844938.7093	1109161.3688	648.08
CP 13	1844543.0230	1109214.9820	

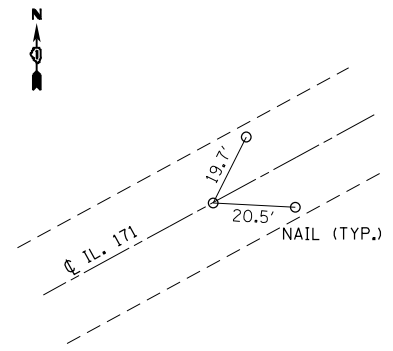
- BENCHMARKS**
- BM 1 - "X" IN N. EASTERLY BOLT FH IN N.E. CORNER IL 171 AND RUST ST (STA. 230+63/34' LT) ELEV. 617.28
  - BM 2 - "□" IN S.E. CORNER TRAFFIC CONT. BOX IN N.W. CORNER IL 171 AND 104TH/WILLOW SPRINGS (STA. 219+44/56' LT) ELEV. 615.64
  - BM 3 - "X" IN EASTERLY BOLT FH N. SIDE IL 171 ±100' EAST OF GRECOS RESTAURANT IN FRONT OF HOUSE #8838 WEST OF 104TH AVE. (STA. 206+00/28' LT) ELEV. 617.20



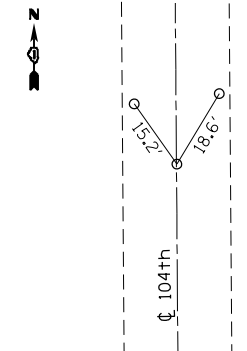
**PT #109**  
 BEGIN POINT  
 MAG NAIL  
 STA. 200+00.00  
 N 1843694.4399  
 E 1107555.4329



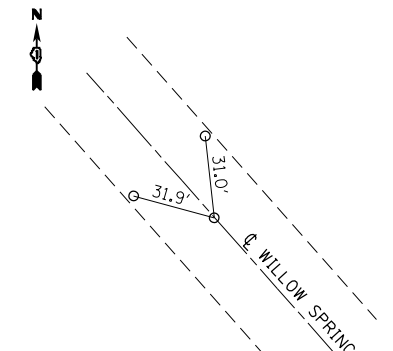
**PT #103**  
 C-C  
 MAG NAIL  
 N 1845258.8822  
 E 1108763.2802



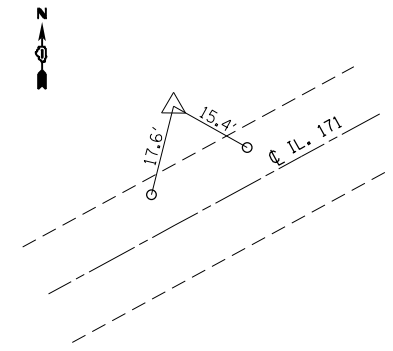
**PT #100**  
 END POINT  
 MAG NAIL  
 N 1846269.6823  
 E 1109955.0043



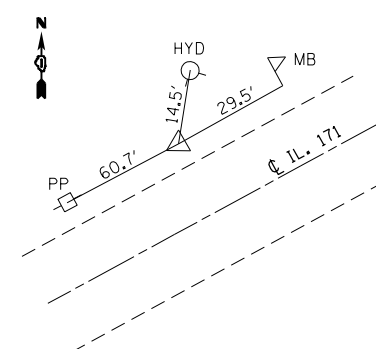
**PT #4118**  
 MAG NAIL  
 STA. 500+00  
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 E 1109229.1346



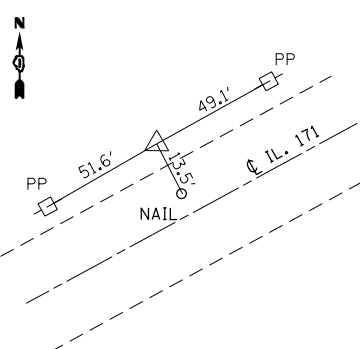
**PT #200**  
 END POINT  
 FD DISK  
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 E 1108510.8973



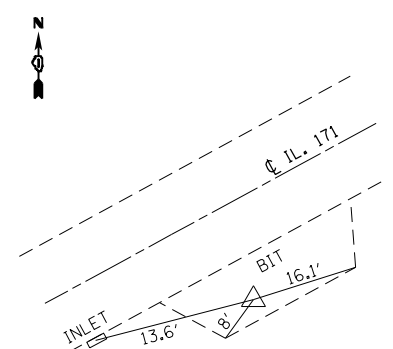
**CP 1**  
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 E 1107756.4596



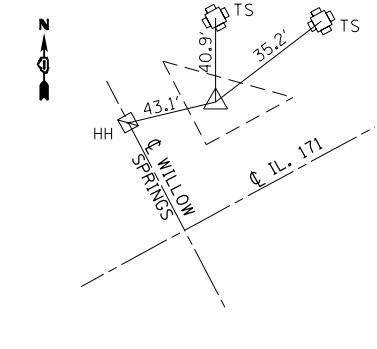
**CP 2**  
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 E 1107973.2583



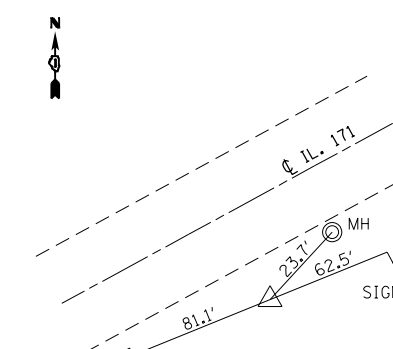
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 E 1108306.6302



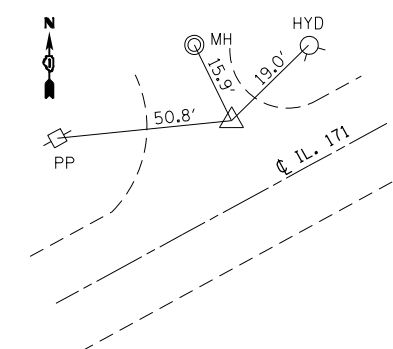
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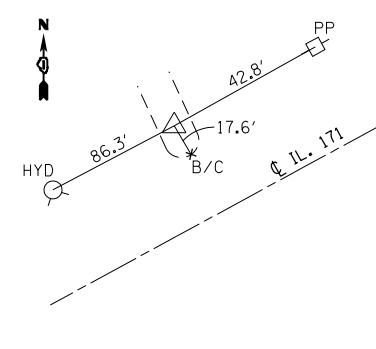
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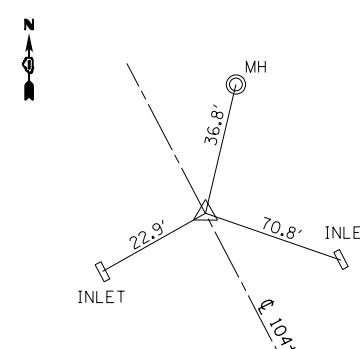
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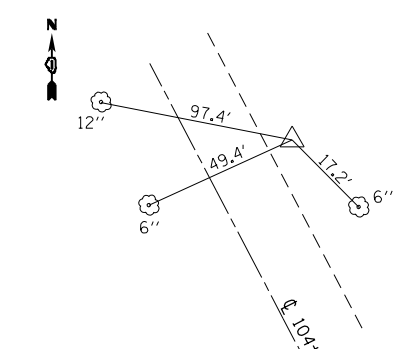
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 E 1109552.5936



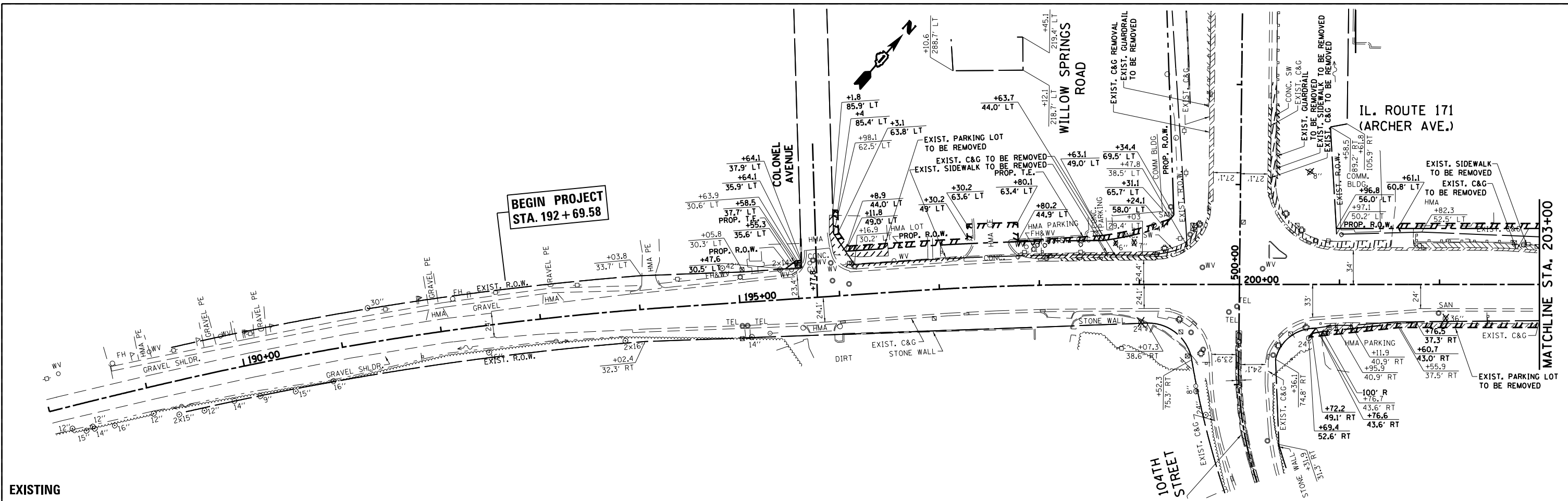
**CP 8**  
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 E 1109824.7379



**CP 9**  
 N 1845125.9067  
 E 1108900.3130



**CP 10**  
 N 1844938.7093  
 E 1109191.3688



**EXISTING**

**NOTES:**

1. THE OVERLAY ON EXISTING PCC SHALL BE ACCORDING TO DISTRICT DETAIL BD-33 WHERE THE CURB AND GUTTER IS EXISTING, NOT PROPOSED.
2. MEDIAN REMOVAL CURB AND GUTTER REMOVAL
3. DRAIN ENTRANCE TOWARD MEDIAN FULL HEIGHT CURB ALONG MEDIAN NOSE
4. TIE IN PROPOSED GUARDRAIL TO EXISTING GUARDRAIL

**PROP. CURVE PRARCHERO1**  
 PI STA. = 187+20.59  
 $\Delta = 4^{\circ} 25' 19''$  (RT)  
 $D = 1^{\circ} 02' 27''$   
 $R = 5,505.46'$   
 $T = 212.55'$   
 $L = 424.89'$   
 $E = 4.10'$   
 $\theta = \dots$   
 $T.R. = \dots$   
 $S.E. RUN = 185+08.04$   
 $P.C. STA. = 189+32.93$   
 $P.T. STA. = 189+32.93$

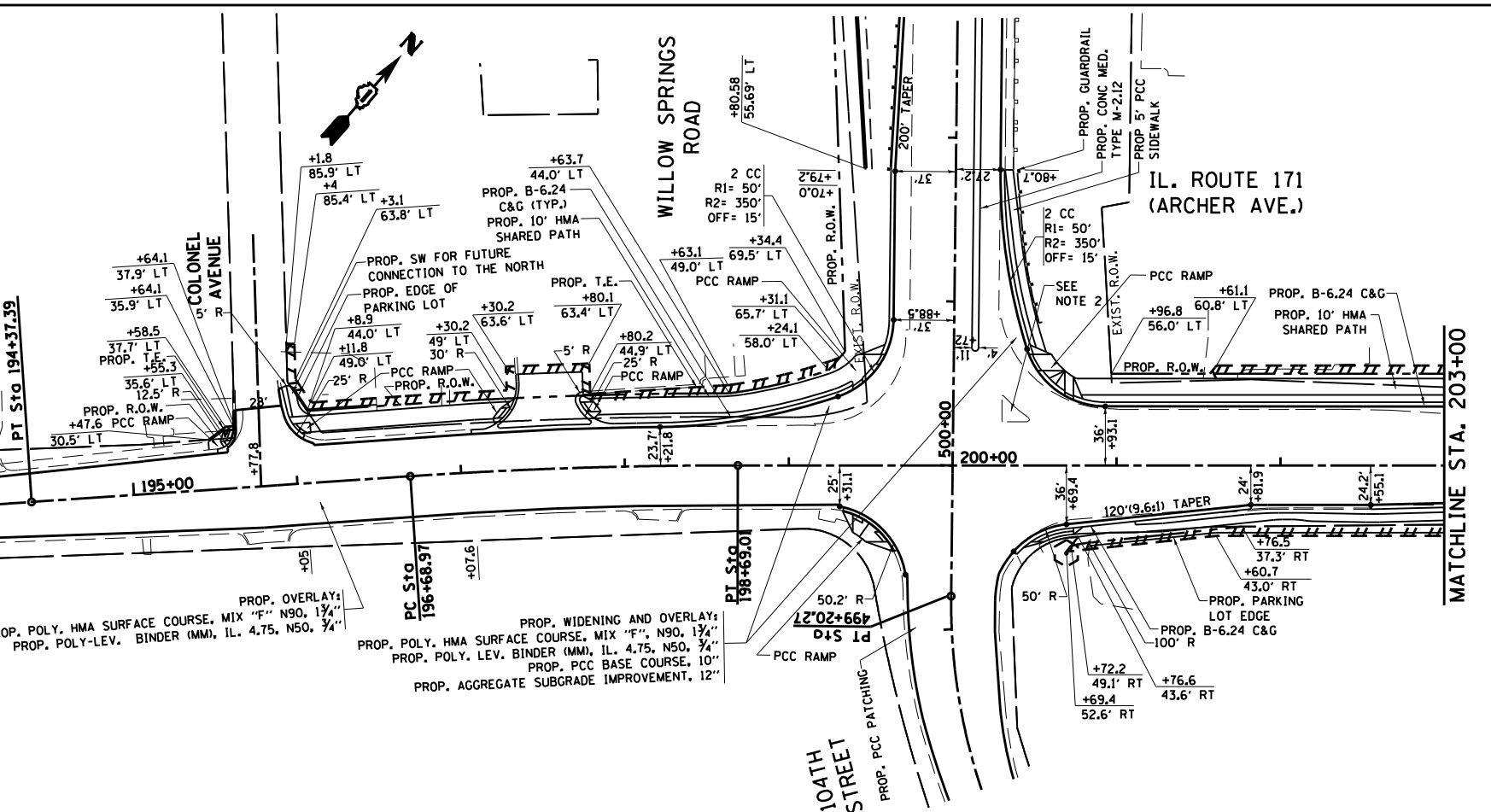
**PROP. CURVE PRARCHERO2**  
 PI STA. = 191+85.68  
 $\Delta = 9^{\circ} 01' 56''$  (RT)  
 $D = 1^{\circ} 47' 26''$   
 $R = 3,200.00'$   
 $T = 252.75'$   
 $L = 504.45'$   
 $E = 9.97'$   
 $\theta = \dots$   
 $T.R. = \dots$   
 $S.E. RUN = 189+32.93$   
 $P.C. STA. = 189+32.93$   
 $P.T. STA. = 194+37.39$

**PROP. CURVE PRARCHERO3**  
 PI STA. = 197+69.03  
 $\Delta = 3^{\circ} 58' 37''$  (RT)  
 $D = 1^{\circ} 59' 17''$   
 $R = 2,881.89'$   
 $T = 100.06'$   
 $L = 200.04'$   
 $E = 1.74'$   
 $\theta = \dots$   
 $T.R. = \dots$   
 $S.E. RUN = 196+68.97$   
 $P.C. STA. = 196+68.97$   
 $P.T. STA. = 198+69.01$

**BEGIN PROJECT STA. 192 + 69.58**

**PROPOSED**

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
ei:\pw\work\p1dot\paraynoal\140160753\142709-sht-gennote.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2014	DATE -	REVISED -

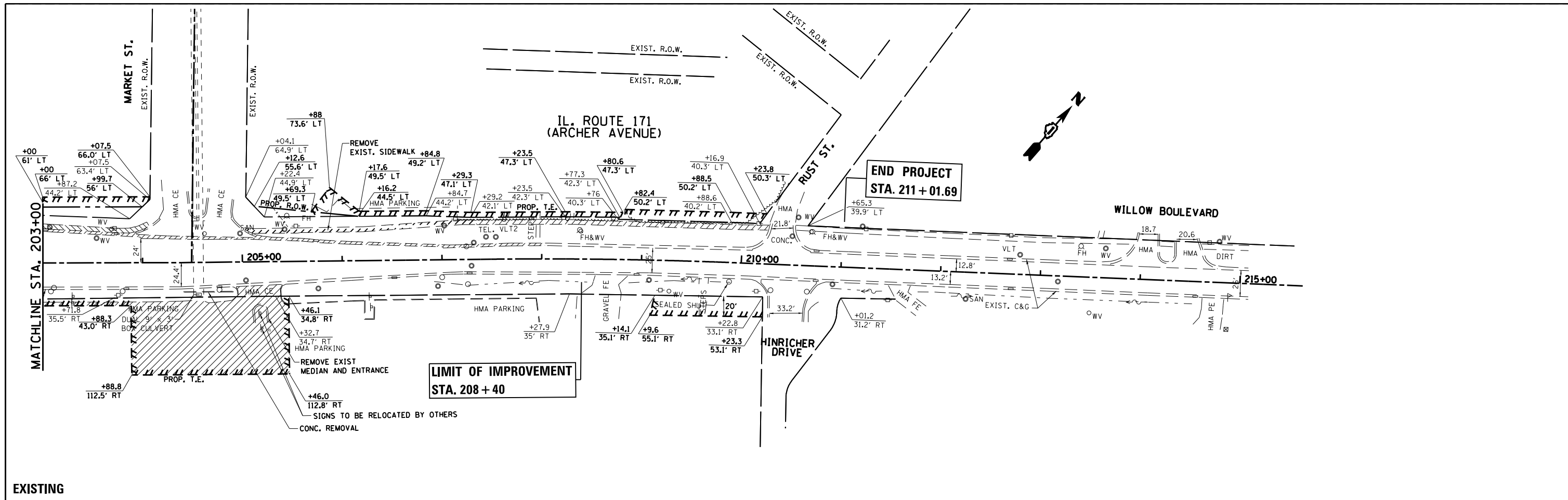


**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

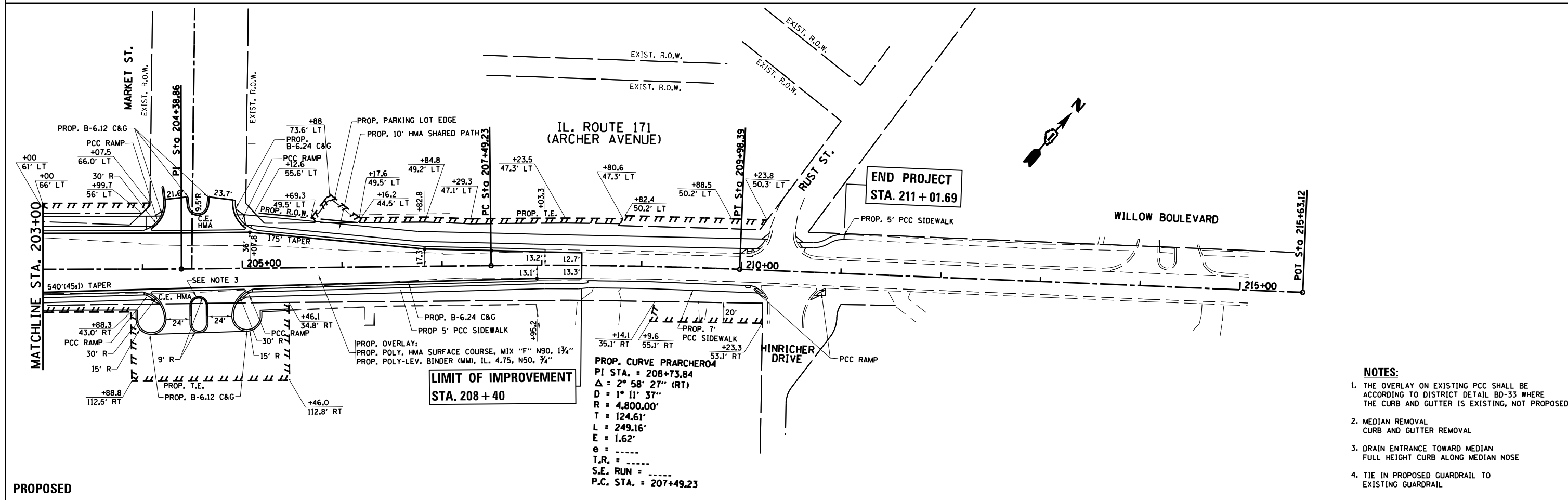
**ROADWAY PLAN**  
**IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	29
<b>CONTRACT NO. 60T24</b>				
ILLINOIS FED. AID PROJECT				

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



**EXISTING**



**PROPOSED**

**PROP. CURVE PRARCHERO4**  
 PI STA. = 208+73.84  
 $\Delta = 2^\circ 58' 27''$  (RT)  
 $D = 1^\circ 11' 37''$   
 $R = 4,800.00'$   
 $T = 124.61'$   
 $L = 249.16'$   
 $E = 1.62'$   
 $\epsilon = \dots$   
 $T.R. = \dots$   
 $S.E. RUN = \dots$   
 $P.C. STA. = 207+49.23$

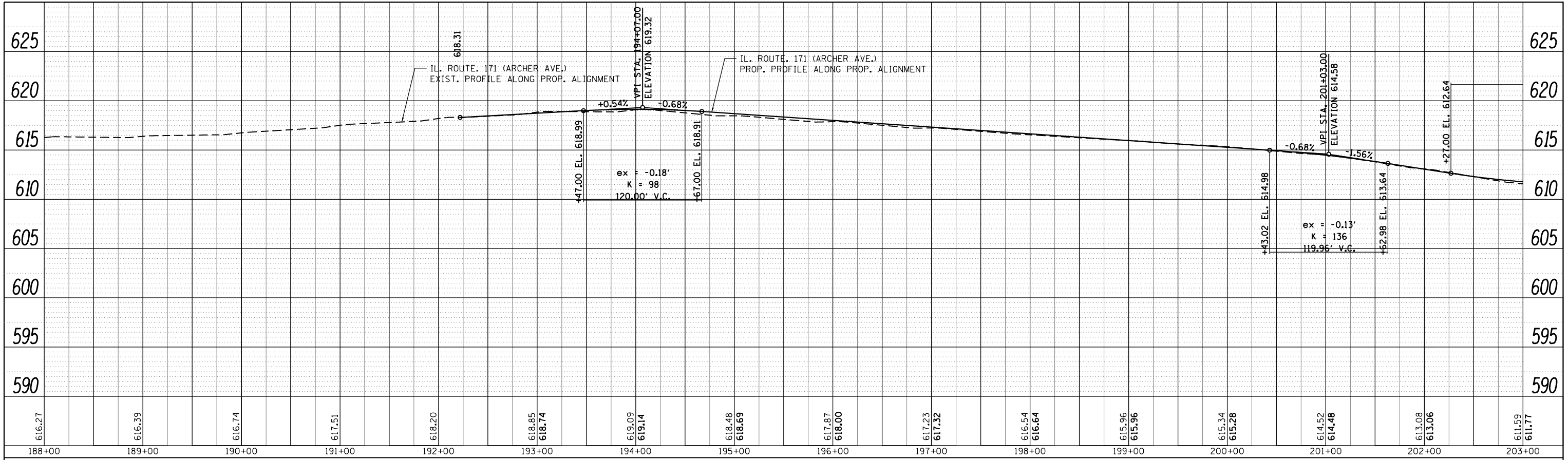
- NOTES:**
1. THE OVERLAY ON EXISTING PCC SHALL BE ACCORDING TO DISTRICT DETAIL BD-33 WHERE THE CURB AND GUTTER IS EXISTING, NOT PROPOSED.
  2. MEDIAN REMOVAL CURB AND GUTTER REMOVAL
  3. DRAIN ENTRANCE TOWARD MEDIAN FULL HEIGHT CURB ALONG MEDIAN NOSE
  4. TIE IN PROPOSED GUARDRAIL TO EXISTING GUARDRAIL

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	Default	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.	3565	B-N-5	COOK	129	30
		CHECKED -	REVISED -												
		DATE -	REVISED -												

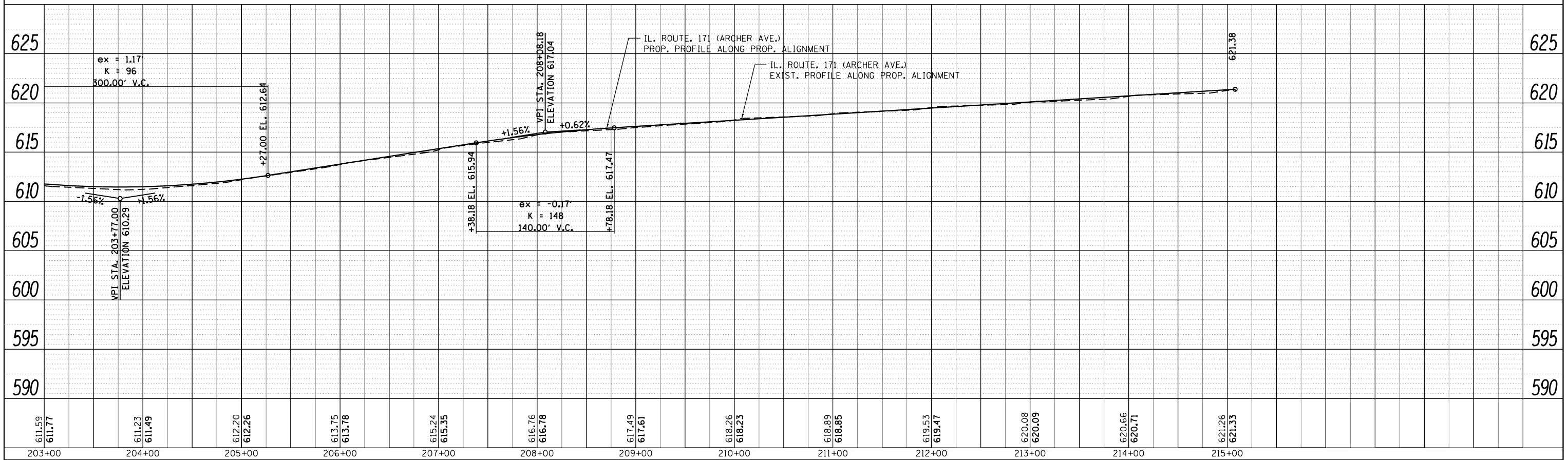
CONTRACT NO. 60T24

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NO.	CARD FILE NAME	

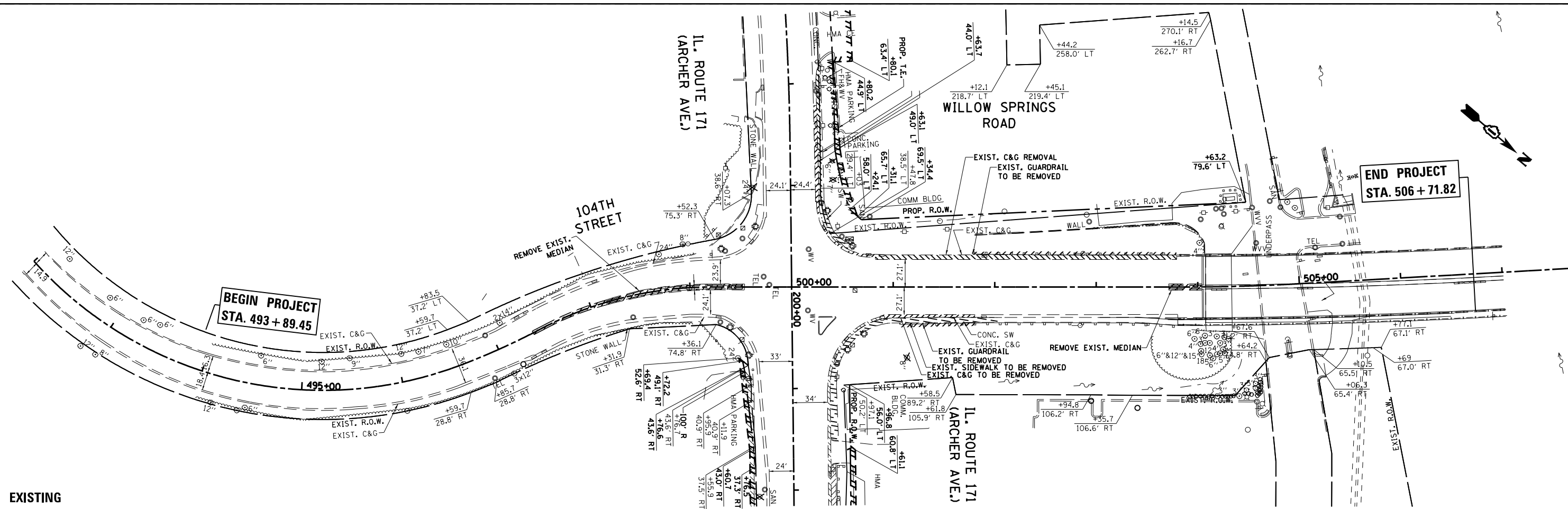


PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NO.	NOTATIS CHKD	



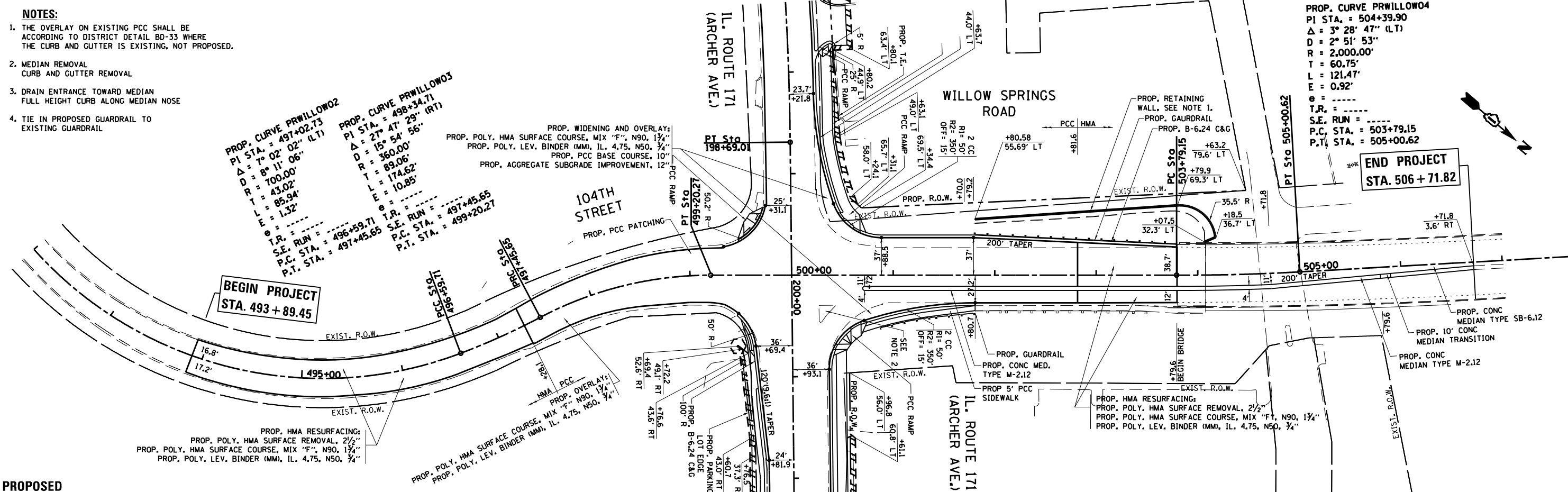
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PROFILE</b> <b>IL. ROUTE 171 (ARCHER AVE.)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\pwork\parayno1\d0160775\p142709-sh-t-plnpr.f.dgn	parayno1	DRAWN -	REVISED -					3565		COOK	129	31
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -					CONTRACT NO. 60T24				
Default		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

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



**EXISTING**

- NOTES:**
1. THE OVERLAY ON EXISTING PCC SHALL BE ACCORDING TO DISTRICT DETAIL BD-33 WHERE THE CURB AND GUTTER IS EXISTING, NOT PROPOSED.
  2. MEDIAN REMOVAL CURB AND GUTTER REMOVAL
  3. DRAIN ENTRANCE TOWARD MEDIAN FULL HEIGHT CURB ALONG MEDIAN NOSE
  4. TIE IN PROPOSED GUARDRAIL TO EXISTING GUARDRAIL



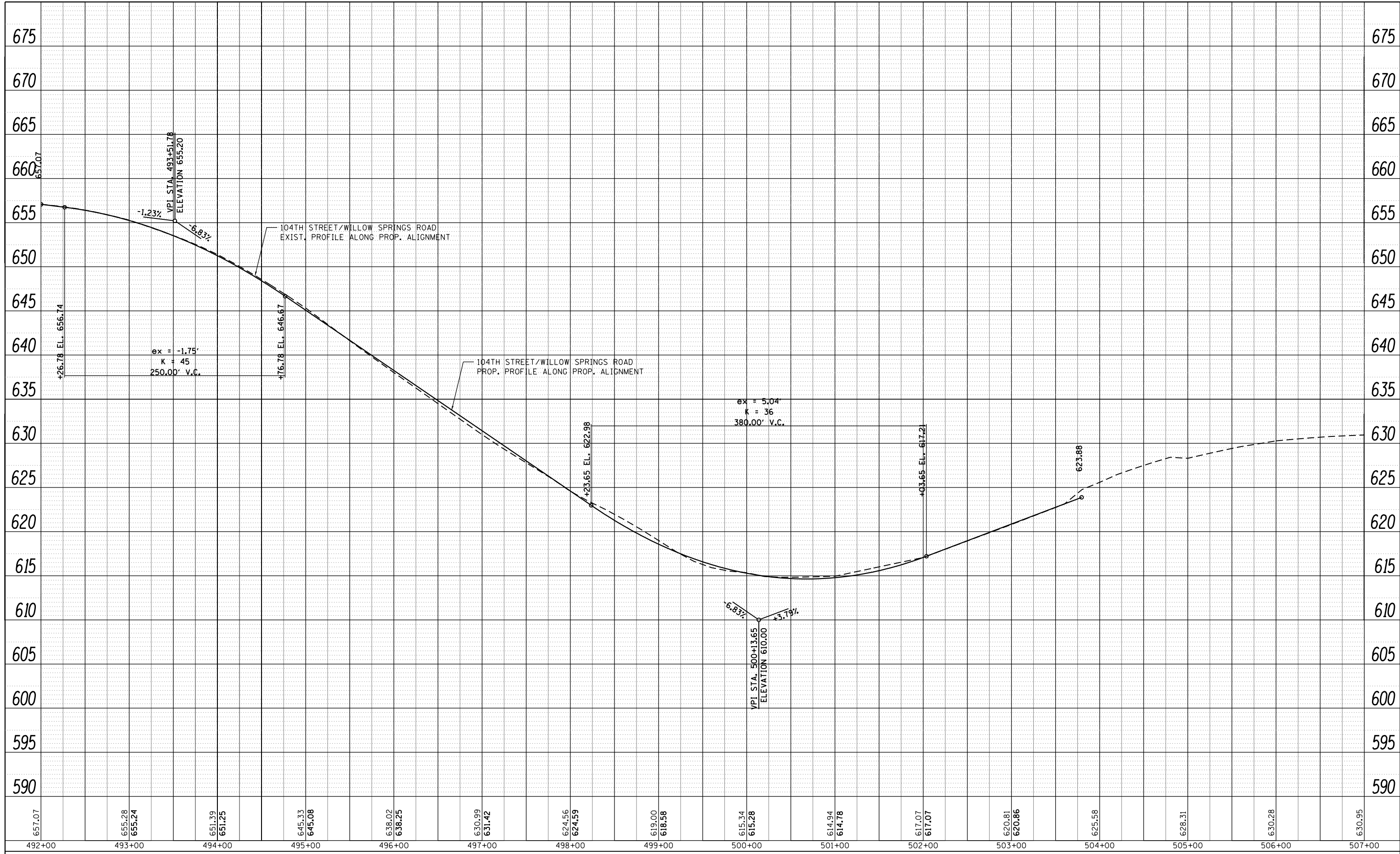
**PROPOSED**

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Date = 3/18/2014	DRAWN -	REVISED -			3565	B-N-5	COOK	129	32	
		CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		

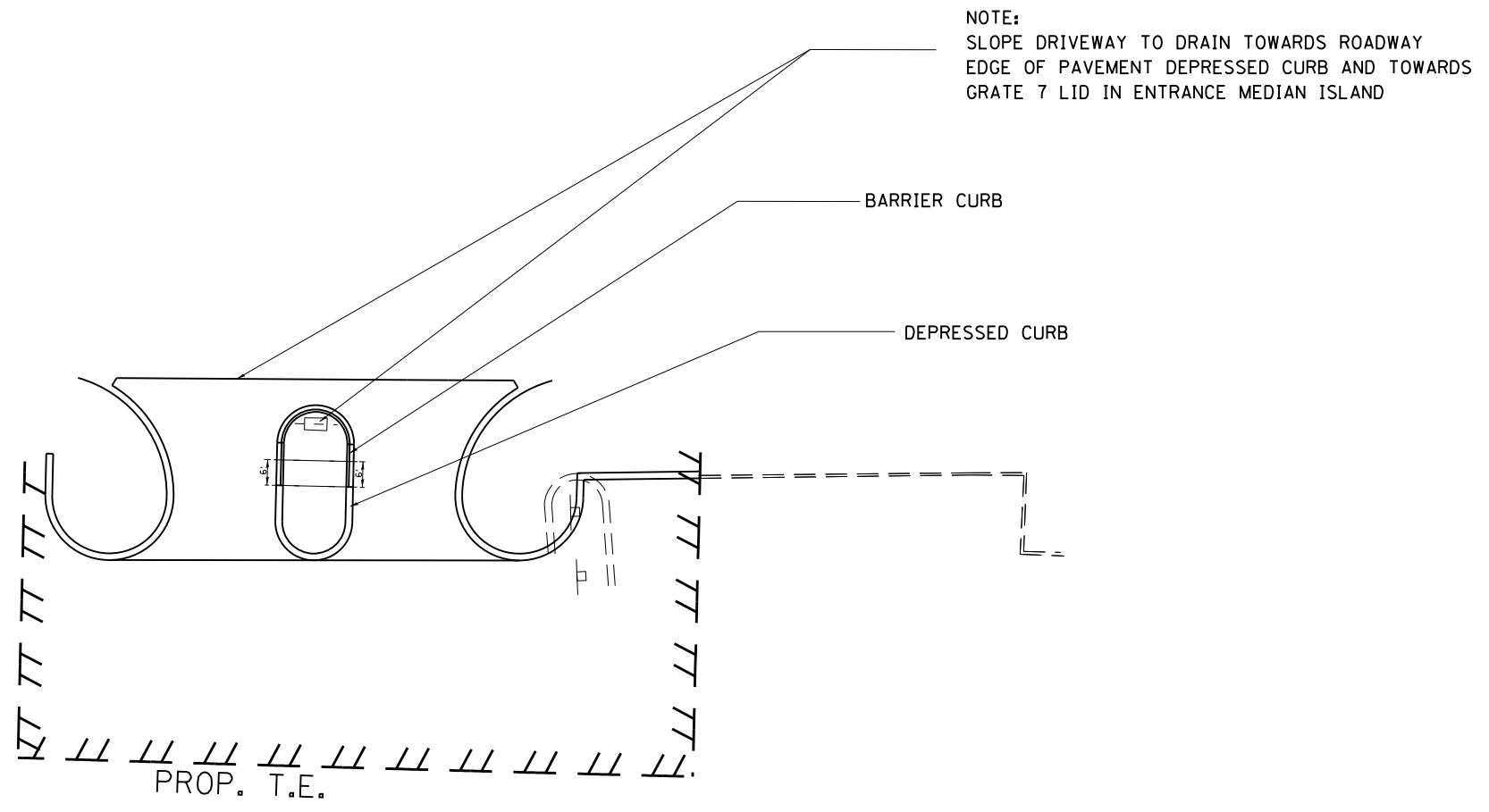


FILE NAME =	USER NAME = parayno1	DESIGNED -	REVISED -
c:\pwork\pwork\parayno1\0160775\PI42709-sh-t-plnpr.f.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PROFILE</b>			
<b>104th AVENUE (WILLOW SPRINGS RD)</b>			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697		COOK	129	33
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



STATION 205+00/R

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRIVEWAY ENTRANCE DETAIL FOR DRAINING WATER L 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\work\pwork\paraynoal\0160753\PI142709-sht-schedule.dgn		DRAWN -	REVISED -			3565	B-N-5	COOK	129	33A	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 12/9/2013	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.			

PRE-STAGE  
TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING CONSTRUCTION.

CONSTRUCTION:  
- REMOVE CHANNELIZATION ISLAND AND CONSTRUCT TEMPORARY PAVEMENT  
AT NORTHWEST CORNER PER STANDARD 701701.

STAGE 1:  
TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING CONSTRUCTION.

CONSTRUCTION:  
- CONSTRUCT PAVEMENT WIDENING AND ENTRANCES ON THE WEST SIDE OF IL RTE 171 NORTH LEG,  
AS WELL AS PAVEMENT WIDENING ON THE NORTH SIDE OF WILLOW SPRINGS ROAD WEST LEG.  
  
- CONSTRUCT GUARDRAIL ON WILLOW SPRINGS ROAD AS WELL AS SHARED-USE PATH ON IL ROUTE 171.

STAGING 2:  
TRAFFIC MAINTAINED ON EXISTING AND NEW PAVEMENT DURING CONSTRUCTION.

CONSTRUCTION:  
- CONSTRUCT PAVEMENT WIDENING AND RETAINING WALL ON THE SOUTH SIDE OF WILLOW SPRINGS ROAD  
WEST LEG.  
  
- CONSTRUCT PAVEMENT WIDENING ON THE NORTH SIDE OF WILLOW SPRINGS ROAD EAST LEG.  
  
- CONSTRUCT PAVEMENT WIDENING ON THE EAST SIDE OF IL ROUTE 171 NORTH LEG, AS WELL AS THE  
NEW ENTRANCE.  
  
- CONSTRUCT THE GUARDRAIL ON THE NORTH SIDE OF WILLOW SPRINGS ROAD NORTH LEG.

STAGING 3:  
TRAFFIC MAINTAINED ON EXISTING AND NEW PAVEMENT DURING CONSTRUCTION.

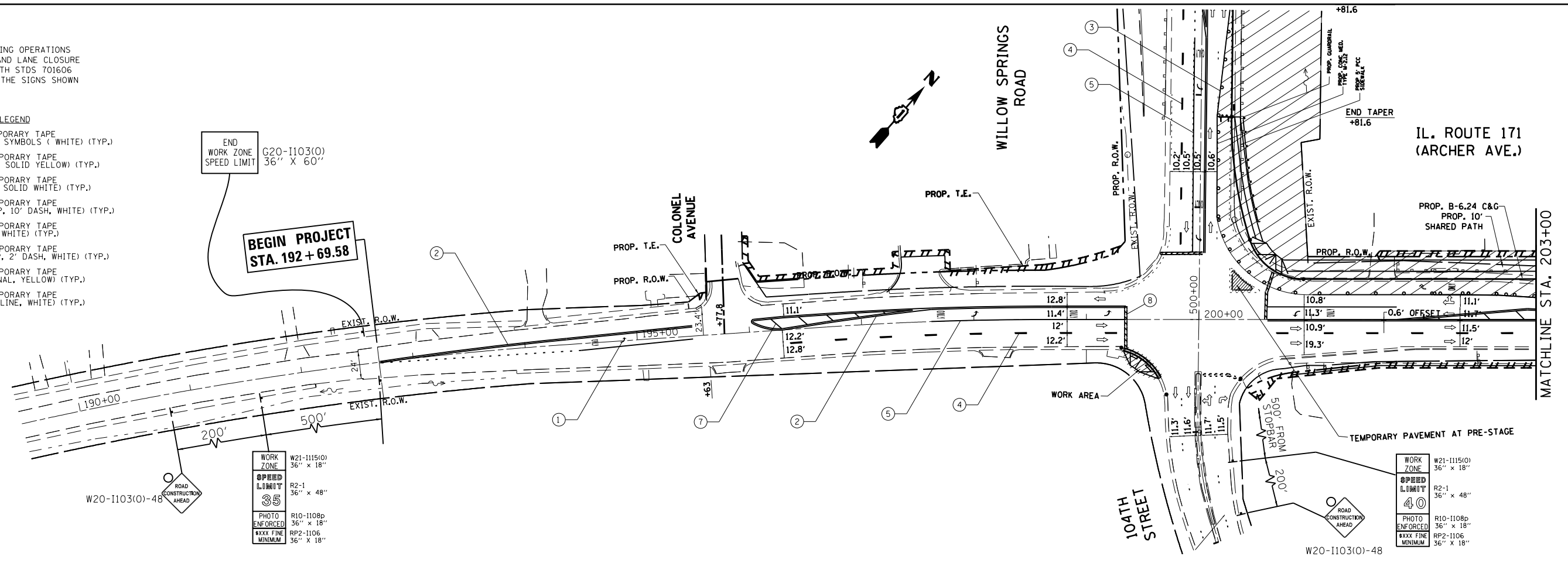
CONSTRUCTION:  
- REMOVE EXISTING PCC MEDIAN ON WILLOW SPRINGS ROAD EAST LEG.  
  
- REMOVE EXISTING PCC MEDIAN ON 104TH AVENUE WEST LEG AND CONSTRUCT THE NEW  
MEDIAN AS SHOWN ON THE PLANS.  
  
- REPLACE CHANNELIZATION GORE ISLAND WITH PAINTED GORE ACCORDING TO HIGHWAY STANDARD 701701  
AND ACCORDING TO THE PAVEMENT MARKING PLAN.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 1 IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwork\pwork\paraynoal\0160753\PI12709-sh1-staging1.dgn	DRAWN -	REVISED -	3565			B-N-5	COOK	129	34		
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
	PLOT DATE = 12/9/2013	DATE -	REVISED -			SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO
ILLINOIS FED. AID PROJECT											

FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STDS 701606 AND 701701 IN ADDITION TO THE SIGNS SHOWN

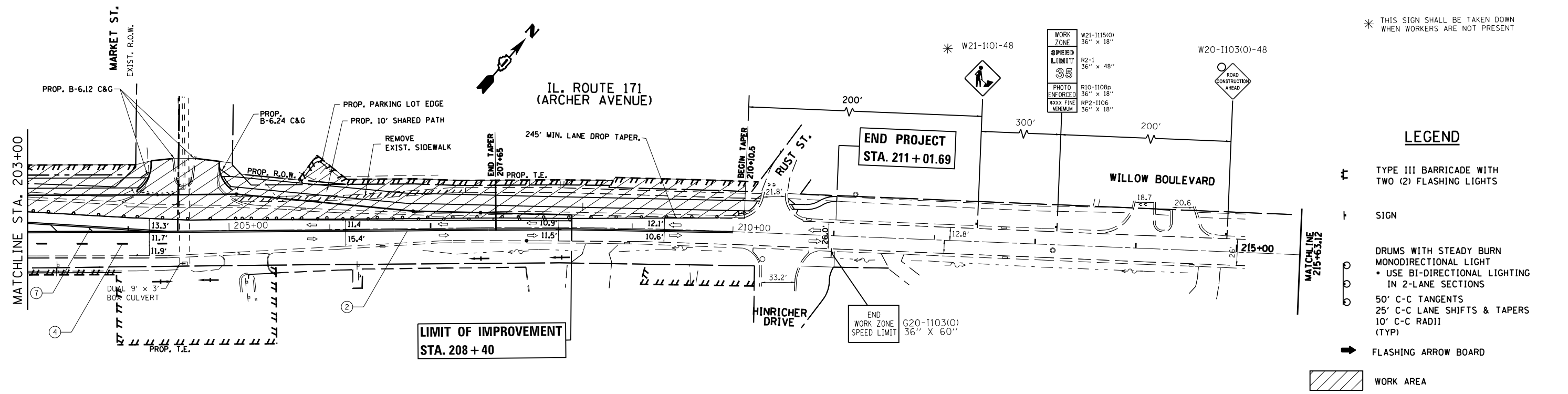
**PAVEMENT MARKING LEGEND**

- ① WET REFLECTIVE TEMPORARY TAPE TYPE III, LETTERS & SYMBOLS (WHITE) (TYP.)
- ② WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
- ③ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
- ④ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
- ⑤ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (SOLID, WHITE) (TYP.)
- ⑥ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (6' SKIP, 2' DASH, WHITE) (TYP.)
- ⑦ WET REFLECTIVE TEMPORARY TAPE TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
- ⑧ WET REFLECTIVE TEMPORARY TAPE TYPE III, 24" (STOP LINE, WHITE) (TYP.)



WORK ZONE	W21-1115(O)	36" x 18"
SPEED LIMIT	R2-1	36" x 48"
PHOTO ENFORCED	R10-1108b	36" x 18"
MINIMUM	RP2-1106	36" x 18"

WORK ZONE	W21-1115(O)	36" x 18"
SPEED LIMIT	R2-1	36" x 48"
PHOTO ENFORCED	R10-1108b	36" x 18"
MINIMUM	RP2-1106	36" x 18"



\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

**LEGEND**

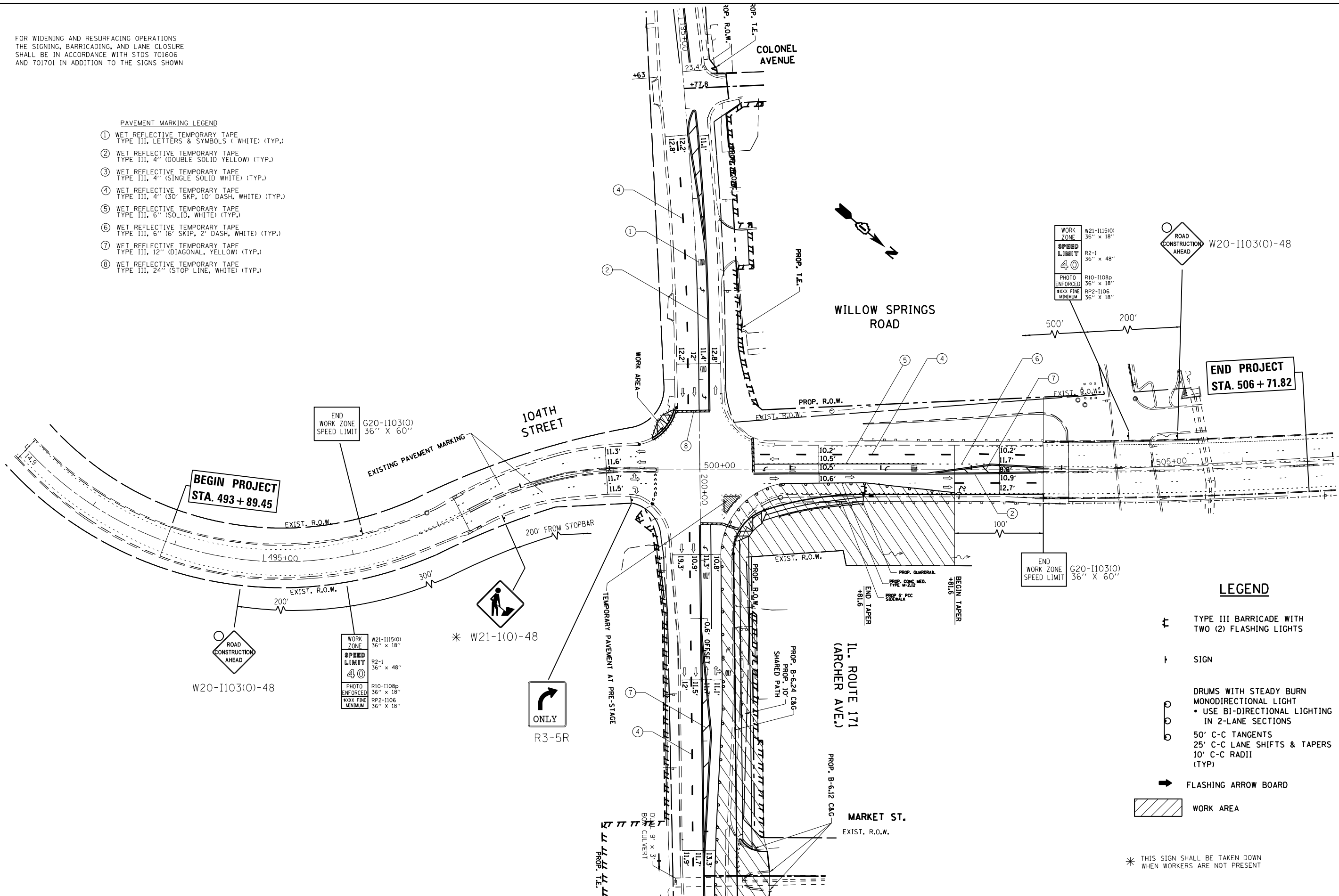
- ⊥ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
- ⊥ SIGN
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
  - USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
- 50' C-C TANGENTS
- 25' C-C LANE SHIFTS & TAPERS
- 10' C-C RADII (TYP.)
- ➔ FLASHING ARROW BOARD
- ▨ WORK AREA

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 1 IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -			3565	B-N-5	COOK	129	35	
	PLOT DATE = 3/18/2014	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

FOR WIDENING AND RESURFACING OPERATIONS  
THE SIGNING, BARRICADING, AND LANE CLOSURE  
SHALL BE IN ACCORDANCE WITH STDS 701606  
AND 701701 IN ADDITION TO THE SIGNS SHOWN

**PAVEMENT MARKING LEGEND**

- ① WET REFLECTIVE TEMPORARY TAPE  
TYPE III, LETTERS & SYMBOLS (WHITE) (TYP.)
- ② WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
- ③ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
- ④ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
- ⑤ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (SOLID, WHITE) (TYP.)
- ⑥ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (6' SKIP, 2' DASH, WHITE) (TYP.)
- ⑦ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
- ⑧ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 24" (STOP LINE, WHITE) (TYP.)



**LEGEND**

- ⦿ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
- ⊥ SIGN
- ⦿ DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
  - USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
- ⦿ 50' C-C TANGENTS  
25' C-C LANE SHIFTS & TAPERS  
10' C-C RADII (TYP.)
- ➔ FLASHING ARROW BOARD
- ▨ WORK AREA

\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

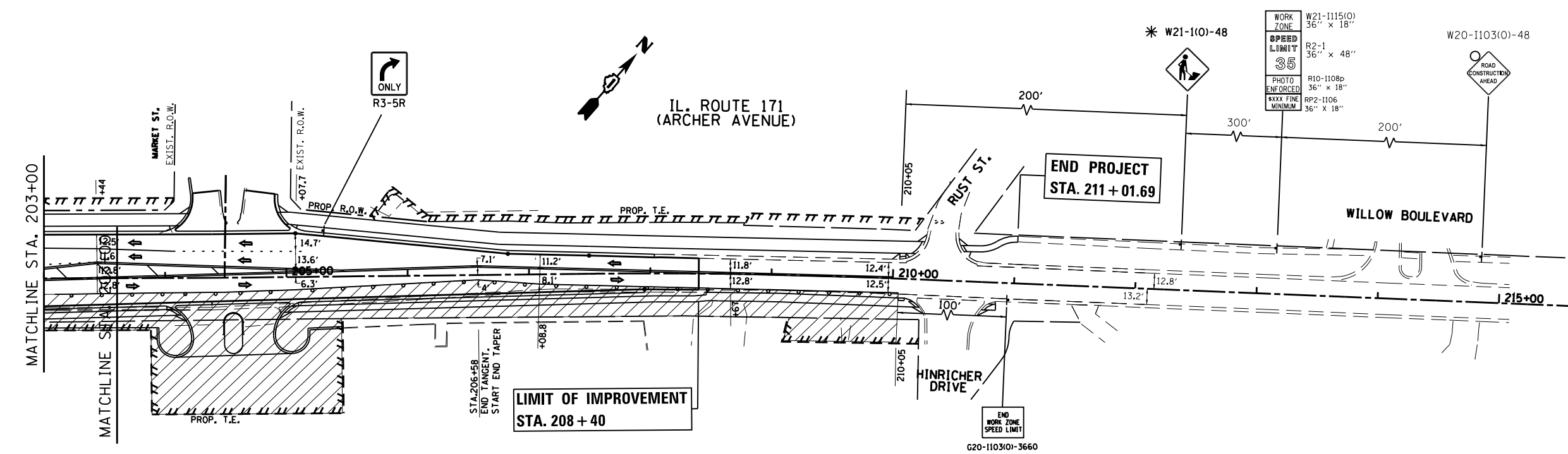
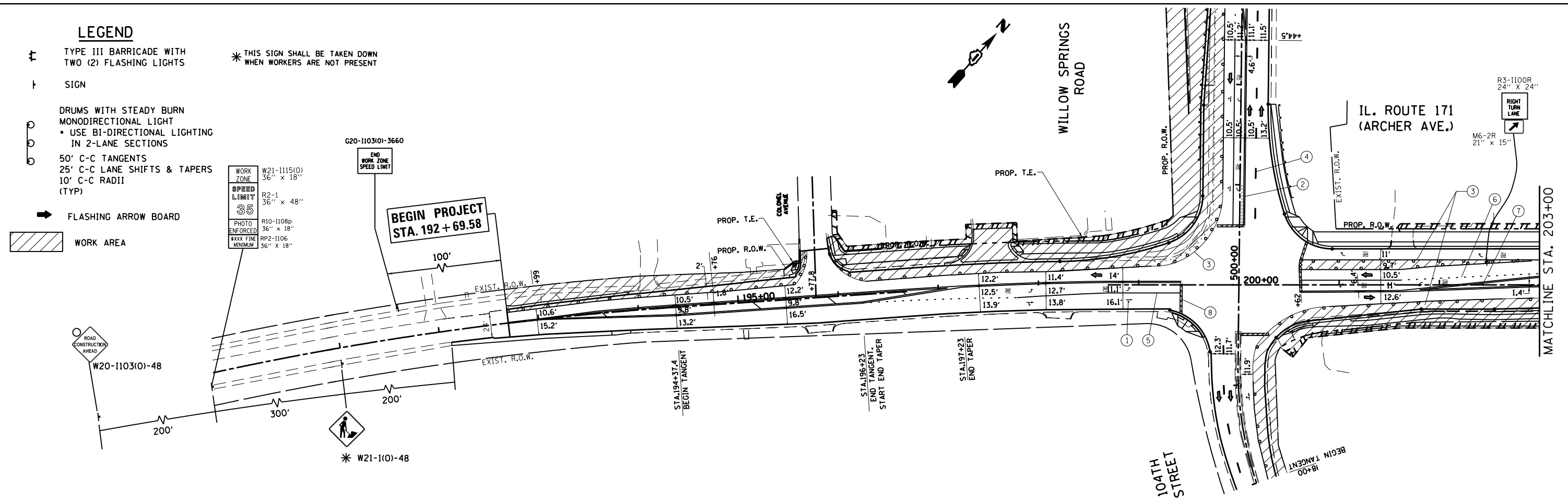
FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 1 IL. ROUTE 171 (ARCHER AVE.) AT 104TH AVE.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -			3565	B-N-5	COOK	129	36	
	PLOT DATE = 3/18/2014	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

**LEGEND**

- ⊥ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
- ⊥ SIGN
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
  - USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
- 50' C-C TANGENTS
- 25' C-C LANE SHIFTS & TAPERS
- 10' C-C RADII (TYP)
- FLASHING ARROW BOARD
- ▨ WORK AREA

WORK ZONE	W21-1115(O)	36" x 18"
SPEED LIMIT	R2-1	36" x 48"
PHOTO ENFORCED	R10-1108p	36" x 18"
MINIMUM	RP2-1106	36" x 18"

\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT



- PAVEMENT MARKING LEGEND**
- ① WET REFLECTIVE TEMPORARY TAPE TYPE III, LETTERS & SYMBOLS (WHITE) (TYP.)
  - ② WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
  - ③ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
  - ④ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
  - ⑤ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (SOLID, WHITE) (TYP.)
  - ⑥ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (6' SKIP, 2' DASH, WHITE) (TYP.)
  - ⑦ WET REFLECTIVE TEMPORARY TAPE TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
  - ⑧ WET REFLECTIVE TEMPORARY TAPE TYPE III, 24" (STOP LINE, WHITE) (TYP.)

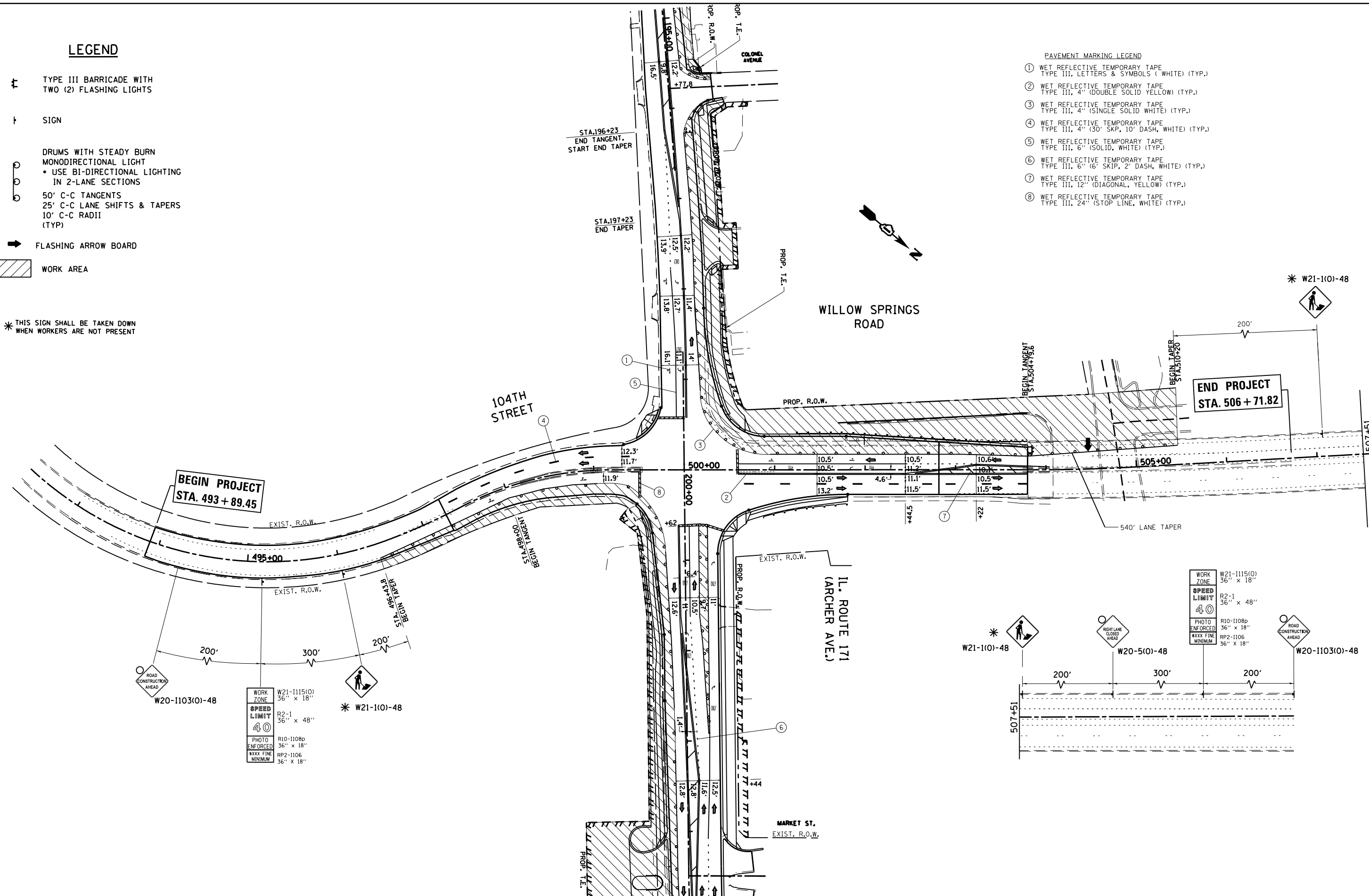
FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 2 IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -			3565	B-N-5	COOK	129	37	
	PLOT DATE = 3/18/2014	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

**LEGEND**

- ⊥ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
- ⊥ SIGN
- DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
  - USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
- 50' C-C TANGENTS
- 25' C-C LANE SHIFTS & TAPERS
- 10' C-C RADII (TYP)
- FLASHING ARROW BOARD
- ▨ WORK AREA

\* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

- PAVEMENT MARKING LEGEND**
- ① WET REFLECTIVE TEMPORARY TAPE TYPE III, LETTERS & SYMBOLS ( WHITE ) (TYP.)
  - ② WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
  - ③ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
  - ④ WET REFLECTIVE TEMPORARY TAPE TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
  - ⑤ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (SOLID, WHITE) (TYP.)
  - ⑥ WET REFLECTIVE TEMPORARY TAPE TYPE III, 6" (6' SKP, 2' DASH, WHITE) (TYP.)
  - ⑦ WET REFLECTIVE TEMPORARY TAPE TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
  - ⑧ WET REFLECTIVE TEMPORARY TAPE TYPE III, 24" (STOP LINE, WHITE) (TYP.)

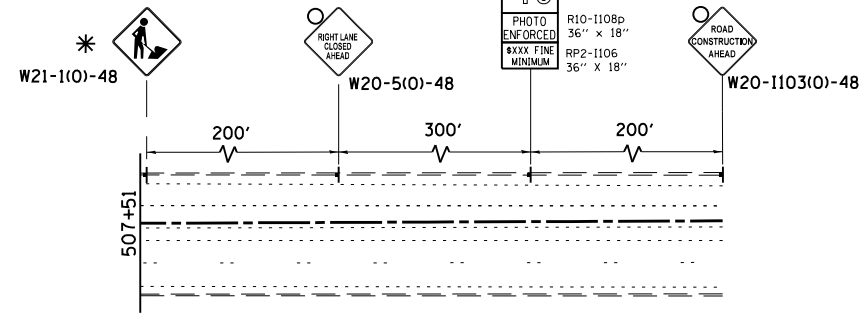


**BEGIN PROJECT**  
STA. 493 + 89.45

**END PROJECT**  
STA. 506 + 71.82

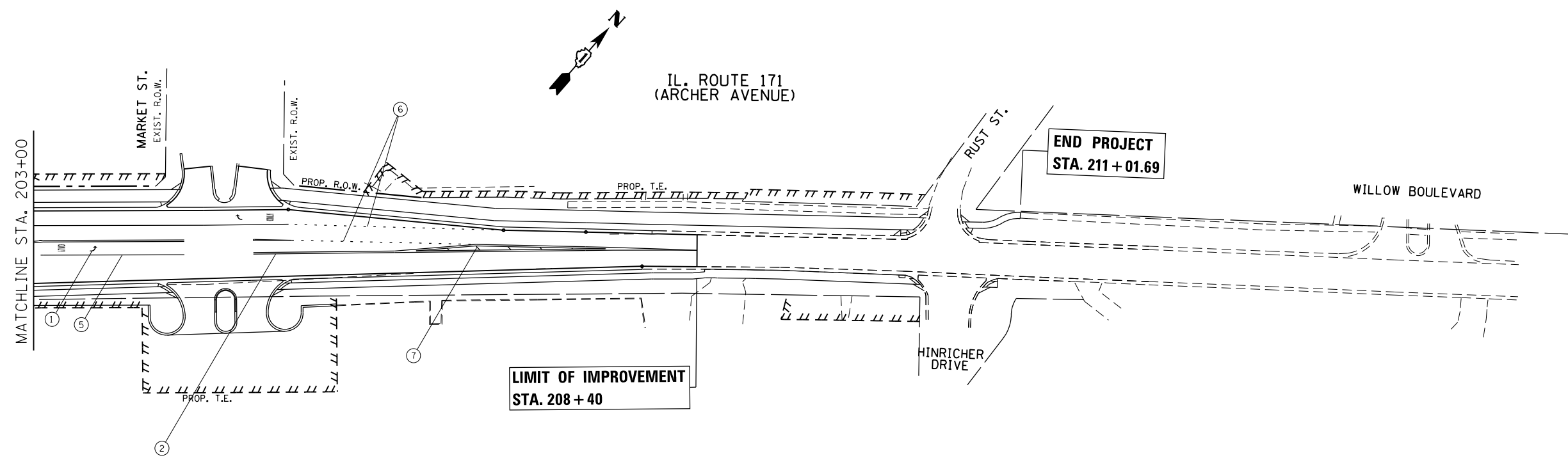
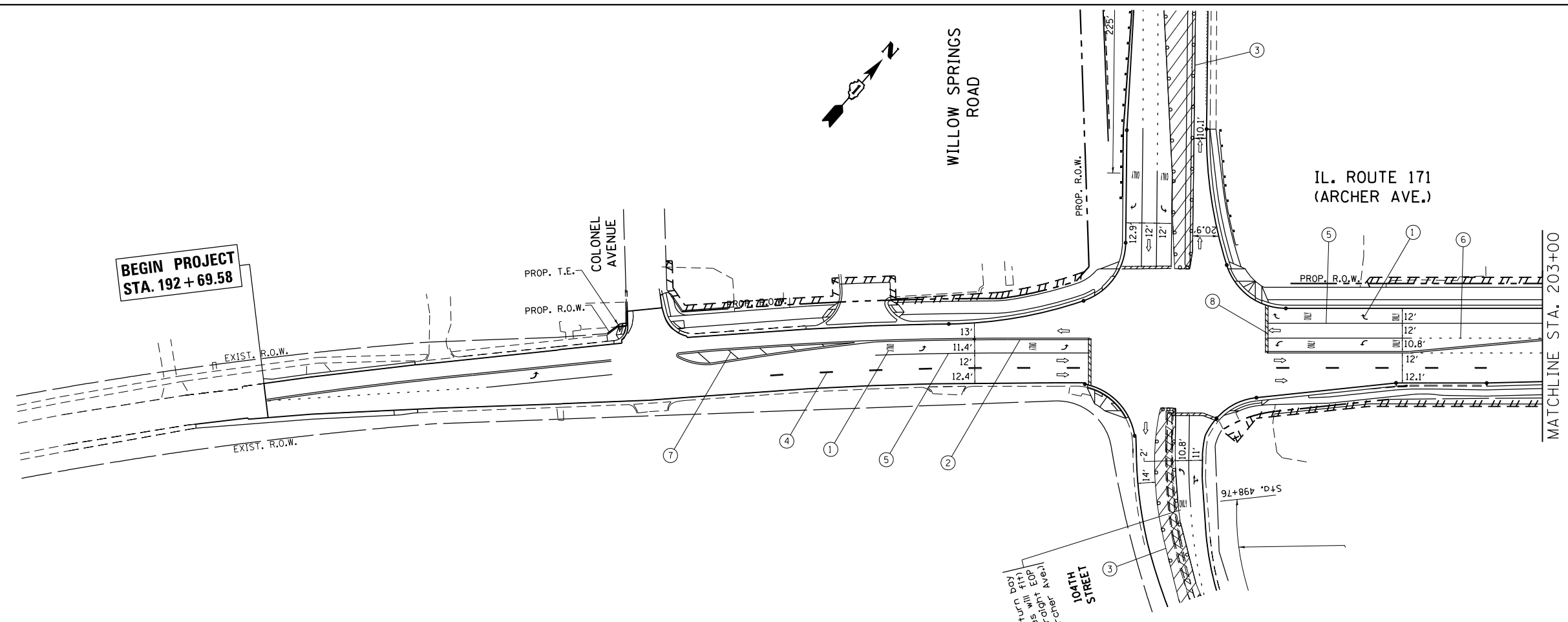
WORK ZONE	W21-1115(0)	36" x 18"
SPEED LIMIT	R2-1	36" x 48"
PHOTO ENFORCED	R10-1108b	36" x 18"
MINIMUM	RP2-1106	36" x 18"

WORK ZONE	W21-1115(0)	36" x 18"
SPEED LIMIT	R2-1	36" x 48"
PHOTO ENFORCED	R10-1108b	36" x 18"
MINIMUM	RP2-1106	36" x 18"



FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 2 IL. ROUTE 171 (ARCHER AVE.) AT 104TH AVE.</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT DATE = 3/18/2014	DRAWN -	REVISED -			3565	B-N-5	COOK	129	38	
		CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

- PAVEMENT MARKING LEGEND**
- ① WET REFLECTIVE TEMPORARY TAPE  
TYPE III, LETTERS & SYMBOLS ( WHITE ) (TYP.)
  - ② WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
  - ③ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
  - ④ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
  - ⑤ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (SOLID, WHITE) (TYP.)
  - ⑥ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (6' SKIP, 2' DASH, WHITE) (TYP.)
  - ⑦ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
  - ⑧ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 24" (STOP LINE, WHITE) (TYP.)



- LEGEND**
- ⚡ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
  - ⊥ SIGN
  - DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
    - USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP.)
  - ➡ FLASHING ARROW BOARD
  - ▨ WORK AREA

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/9/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 3  
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	39
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

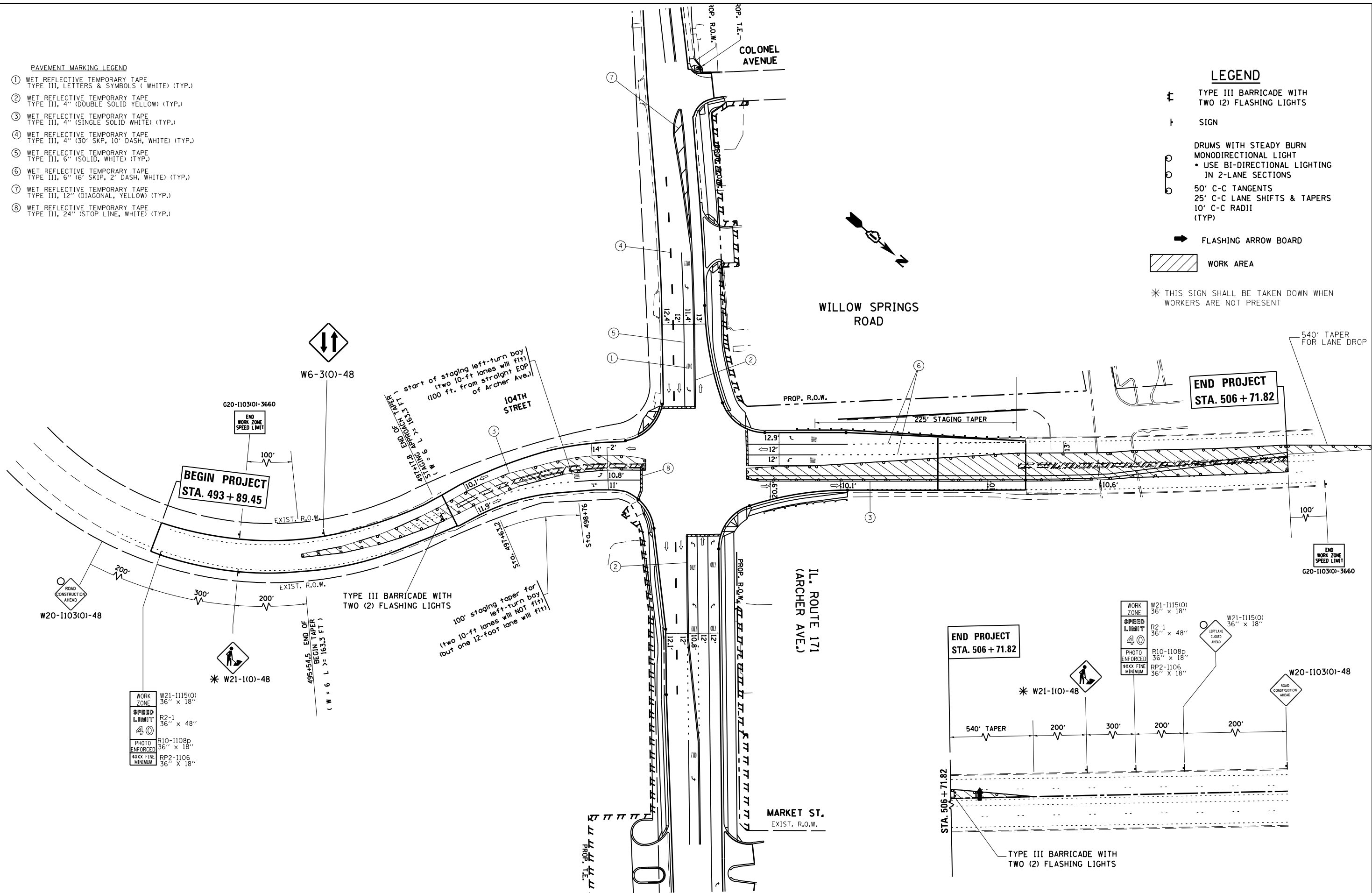


PAVEMENT MARKING LEGEND

- ① WET REFLECTIVE TEMPORARY TAPE  
TYPE III, LETTERS & SYMBOLS ( WHITE ) (TYP.)
- ② WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (DOUBLE SOLID YELLOW) (TYP.)
- ③ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (SINGLE SOLID WHITE) (TYP.)
- ④ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 4" (30' SKP, 10' DASH, WHITE) (TYP.)
- ⑤ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (SOLID, WHITE) (TYP.)
- ⑥ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 6" (6" SKIP, 2" DASH, WHITE) (TYP.)
- ⑦ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 12" (DIAGONAL, YELLOW) (TYP.)
- ⑧ WET REFLECTIVE TEMPORARY TAPE  
TYPE III, 24" (STOP LINE, WHITE) (TYP.)

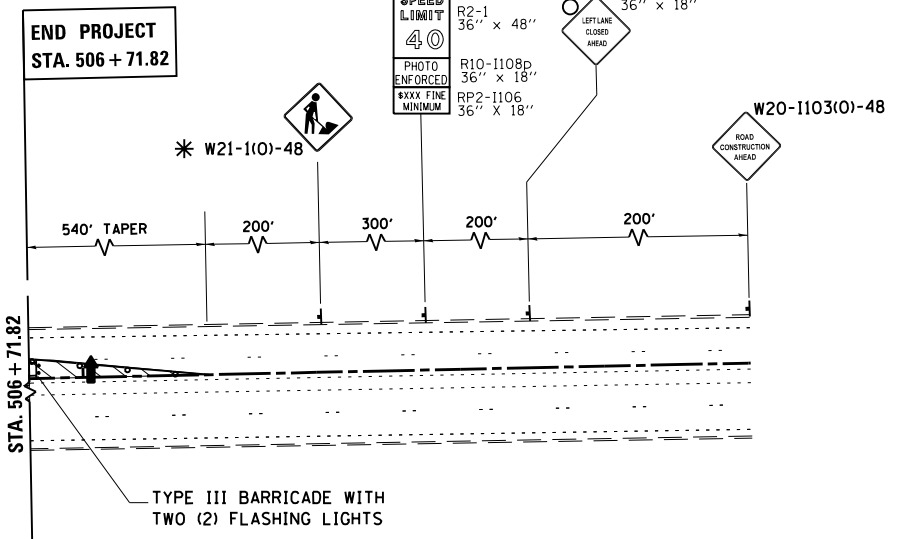
LEGEND

- ⊕ TYPE III BARRICADE WITH TWO (2) FLASHING LIGHTS
- ⊥ SIGN
- ⊙ DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT  
• USE BI-DIRECTIONAL LIGHTING IN 2-LANE SECTIONS
- 50' C-C TANGENTS  
25' C-C LANE SHIFTS & TAPERS  
10' C-C RADII (TYP.)
- ➡ FLASHING ARROW BOARD
- ▨ WORK AREA
- \* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT



WORK ZONE  
W21-115(0)  
36" x 18"  
SPEED LIMIT  
R2-1  
36" x 48"  
40  
PHOTO ENFORCED  
R10-1108p  
36" x 18"  
MINIMUM  
RP2-1106  
36" x 18"

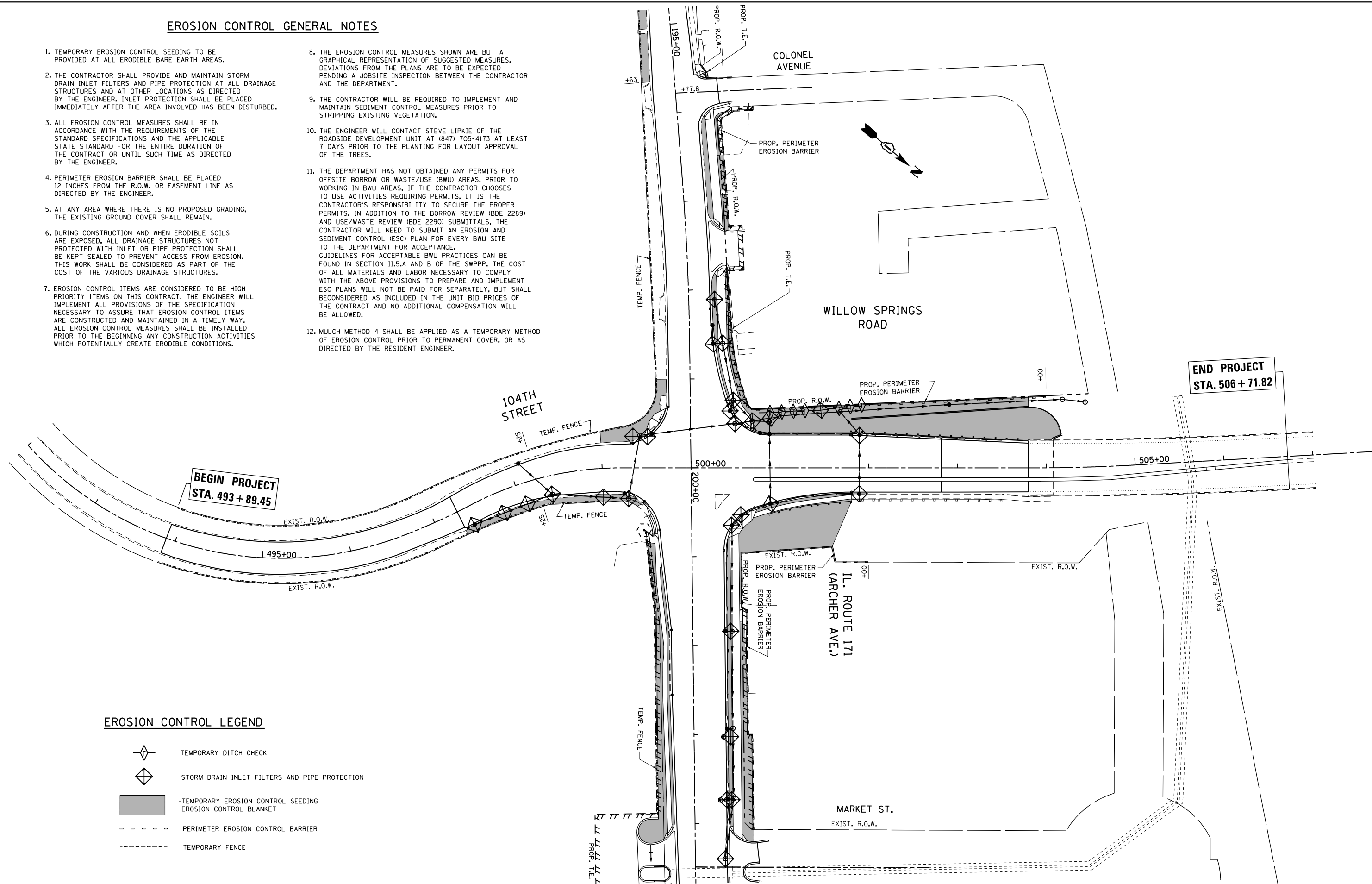
WORK ZONE  
W21-115(0)  
36" x 18"  
SPEED LIMIT  
R2-1  
36" x 48"  
40  
PHOTO ENFORCED  
R10-1108p  
36" x 18"  
MINIMUM  
RP2-1106  
36" x 18"



FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 3 IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	et:\pw\work\p142709-sht-staging3.dgn	DRAWN -	REVISED -					3565	B-N-5	COOK	129	40
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					<b>CONTRACT NO. 60T24</b>				
	PLOT DATE = 3/18/2014	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

**EROSION CONTROL GENERAL NOTES**

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
7. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
8. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
9. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
10. THE ENGINEER WILL CONTACT STEVE LIPKIE OF THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4173 AT LEAST 7 DAYS PRIOR TO THE PLANTING FOR LAYOUT APPROVAL OF THE TREES.
11. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.5.A AND B OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
12. MULCH METHOD 4 SHALL BE APPLIED AS A TEMPORARY METHOD OF EROSION CONTROL PRIOR TO PERMANENT COVER, OR AS DIRECTED BY THE RESIDENT ENGINEER.



**EROSION CONTROL LEGEND**

- TEMPORARY DITCH CHECK
- STORM DRAIN INLET FILTERS AND PIPE PROTECTION
- TEMPORARY EROSION CONTROL SEEDING  
-EROSION CONTROL BLANKET
- PERIMETER EROSION CONTROL BARRIER
- TEMPORARY FENCE

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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	PLOT DATE = 12/12/2013	DATE -	REVISED -







**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

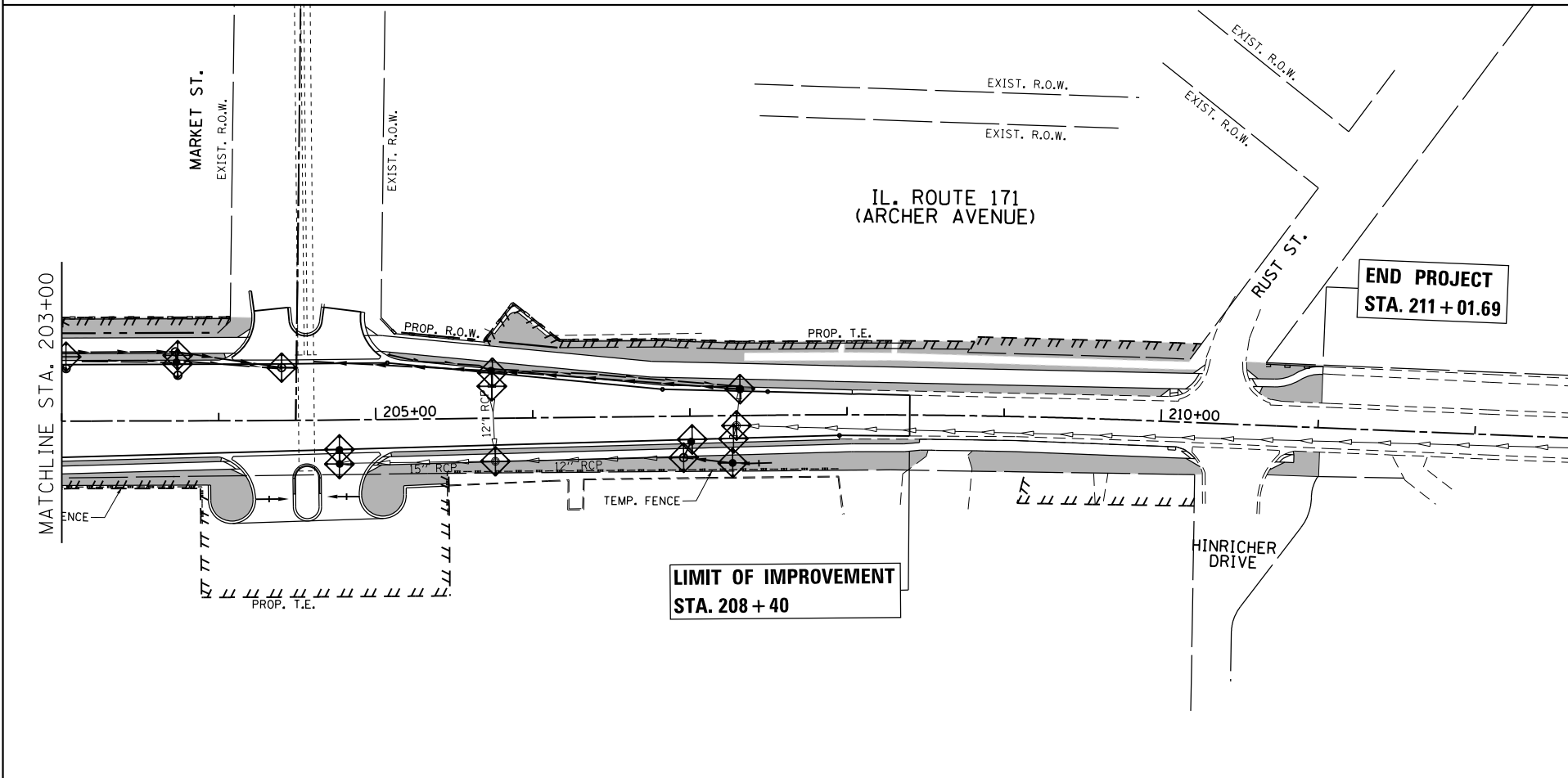
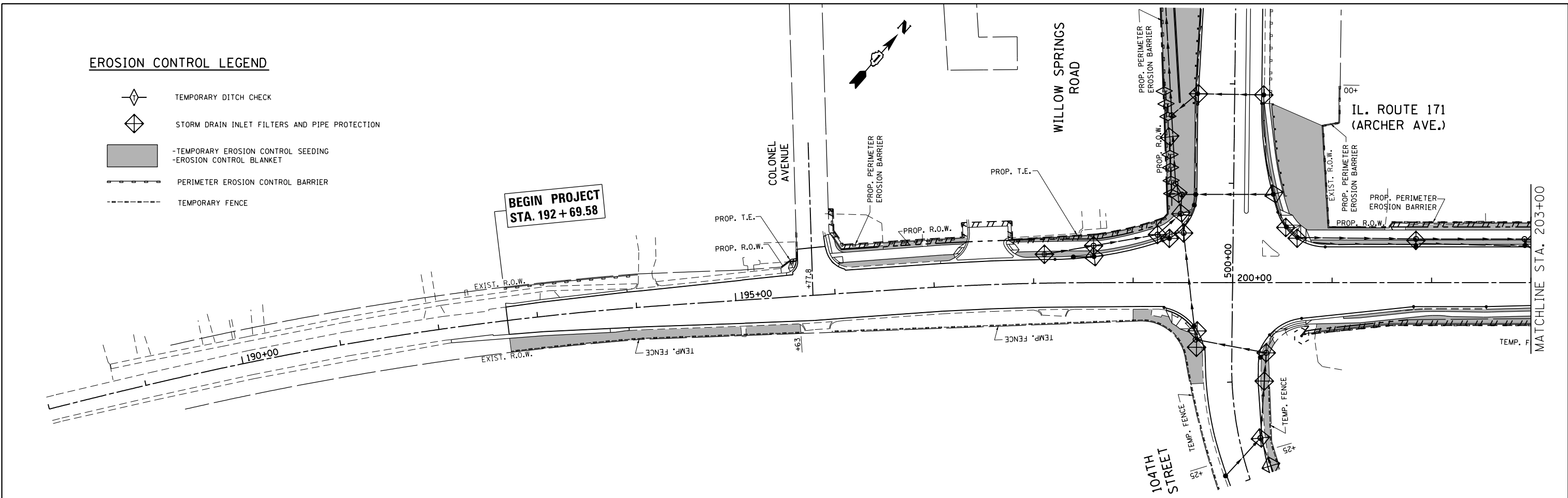
**EROSION CONTROL PLAN  
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	41
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

**EROSION CONTROL LEGEND**

-  TEMPORARY DITCH CHECK
-  STORM DRAIN INLET FILTERS AND PIPE PROTECTION
-  -TEMPORARY EROSION CONTROL SEEDING
-  -EROSION CONTROL BLANKET
-  PERIMETER EROSION CONTROL BARRIER
-  TEMPORARY FENCE



**EROSION CONTROL GENERAL NOTES**

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
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4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
7. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
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12. MULCH METHOD 4 SHALL BE APPLIED AS A TEMPORARY METHOD OF EROSION CONTROL PRIOR TO PERMANENT COVER, OR AS DIRECTED BY THE RESIDENT ENGINEER.

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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	42
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

# DRAINAGE STRUCTURES AND STORM SEWERS TABLE

## DRAINAGE STRUCTURES

1 STA. 497+39.0, 21.6 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 628.4  
INV.(NW) = 619.0  
EXISTING INV.(SW) = 622.1 (MAINTAIN)

4 STA. 498+10.5, 22.4 LT  
CB TYP.A 4' DIA. W/ F&G TYP. 24  
T.O.G. = 623.7  
INV.(NW) = 616.0

5 STA. 498+38.5, 21.0 RT  
MH TYP.A 4' DIA. W/ F&G CL.TYP.1  
T.O.G. = 621.8  
INV.(S) = 614.8 INV.(SE) = 616.3  
INV.(NW) = 613.3

8 STA. 499+25.3, 28.8 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 616.7  
INV.(N) = 613.0

FLAT TOP 9 STA. 499+29.8, 34.5 RT  
MH TYP.A 5' DIA. W/ F&G CL. TYP.1  
T.O.G. = 616.9  
INV.(S) = 612.9 INV.(SE) = 612.3  
INV.(SW) = 612.0 INV.(NW) 612.6 (EXISTING)

FLAT TOP 10 STA. 499+42.3, 36.5 LT  
MH TYP.A 5' DIA. W/ F&G CL. TYP.1  
T.O.G. = 616.9  
INV.(NW) = 611.0 INV.(NE) = 611.3

FLAT TOP 11 STA. 499+55.9, 38.2 LT  
CB TYP.A 5' DIA. W/ F&G TYP.24  
T.O.G. = 616.2  
INV.(NW) = 610.7 INV.(SE) = 610.9

FLAT TOP 12 STA. 500+49.34, 49.8 LT  
MH TYP.A 5' DIA. W/ F&G CL. TYP.1  
T.O.G. = 614.8  
INV.(NW) = 610.1 INV.(SE) = 610.3

FLAT TOP 13 STA. 198+11.3, 29.0 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 616.5  
INV.(NE) = 609.8  
INV.(SW) = 610.1 (EXIST. MAINTAIN)

FLAT TOP 14 STA. 198+40.1, 25.9 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 615.9  
INV.(NE) = 610.7

15 STA. 198+60.7, 26.3 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 615.8  
INV.(NW) = 610.3 INV.(SW) = 610.5

FLAT TOP 16 STA. 198+60.3, 37.2 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 615.9  
INV.(NE) = 609.5 INV.(SW) = 609.6  
INV.(SE) = 610.2

17 STA. 199+36.4, 44.6 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 615.1  
INV.(SW) = 609.5

FLAT TOP 18 STA. 199+24.5, 48.4 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 614.8  
INV.(N) = 609.2 INV.(NE) = 609.4  
INV.(SW) = 609.3

FLAT TOP 19 STA. 500+68.9, 52.8 LT  
MH TYP.A 6' DIA. W/ F&G CL TYP.1  
T.O.G. = 614.6  
INV.(S) = 609.1 INV.(SE) = 609.9  
INV.(NW) = 603.5  
**OUTLET #2 RESTRICTOR**  
NOTE: SEE DISTRICT DETAIL BD-12 FOR OTHER ELEVATIONS AND REQUIREMENTS  
NOTE: SEE DISTRICT DETAIL BD-12 FOR OTHER ELEVATIONS AND REQUIREMENTS

20 STA. 500+89.4, 39.9 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 614.5  
INV.(SW) = 609.0

21 STA. 500+77.6, 39.3 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 614.3  
INV.(NW) = 608.8

22 STA. 500+88.4, 38.1 LT  
CB TYP.A 4' DIA. F&G TYP.24  
T.O.G. = 614.4  
INV.(SE) = 608.7 INV.(NE) = 608.0  
INV.(SW) = 606.0

23 STA. 500+88.1, 52.1 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 612.5  
INV.(NW) = 603.0 INV.(NE) = 605.7  
INV.(SE) = 603.3

24 STA. 500+99.1, 58.5 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 611.1  
INV.(SE) = 602.9 INV.(NW) = 599.7

25 STA. 501+89.3, 29.2 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 616.5  
INV.(E) = 611.0

26 STA. 501+90, 37.2 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 616.3  
INV.(NE) = 609.7 INV.(S) = 601.0

27 STA. 501+67.8, 63.1 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 606.6  
INV.(SE) = 599.0 INV.(N) = 600.0  
INV.(NW) = 595.5

FLAT TOP 28 STA. 502+90.6, 71.2 LT  
CB TYP.A 5' DIA. W/ F&G TYP.8  
T.O.G. = 597.8  
INV.(SE) = 594.0 INV.(NW) = 593.7

FLAT TOP 29 STA. 504+19.2, 76.8 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 596.5  
INV.(NW) = 593.1 INV.(SE) = 593.1

FLAT TOP 30 STA. 504+45.8, 73.2 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 597.4  
INV.(SE) = 593.0

31 STA. 200+54.1, 56.2 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 614.3  
INV.(E) = 608.5

32 STA. 200+65.3, 45.4 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 614.2  
INV.(W) = 608.3 INV.(NE) = 608.0

33 STA. 201+84.3, 37.3 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 612.5  
INV.(NW) = 607.0

34 STA. 201+84.4, 44.0 LT  
MH TYP.A 4' DIA. W/ F&G CL TYP.1  
T.O.G. = 613.1  
INV.(SW) = 606.0 INV.(SE) = 606.9  
INV.(NE) = 605.8

35 STA. 203+03, 33.5 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 611.2  
INV.(W) = 605.6  
INV.(E) = 605.9 (EXIST, MAINTAIN)

36 STA. 202+93.9, 37.4 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 611.2  
INV.(NW) = 605.2 INV.(E) = 605.4

FLAT TOP 37 STA. 202+93.5, 43.9 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 612.2  
INV.(SW) = 604.6 INV.(SE) = 605.1  
INV.(NE) = 604.3

38 STA. 203+74.1, 29.0 LT  
MH TYP.A 4' DIA. W/ F&G CL TYP.1  
T.O.G. = 610.8  
INV.(NW) = 604.5  
INV.(SE) = 604.7 (EXIST, MAINTAIN)

39 STA. 203+73.2, 37.3 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 610.4  
INV.(NW) = 604.2 INV.(SE) = 604.4

40 STA. 203+72.6, 44.0 LT  
MH TYP.A 5' DIA. W/ F&G CL TYP.1  
T.O.G. = 610.7  
INV.(SE) = 604.1 INV.(SW) = 603.1  
INV.(NE) = 602.9

41 STA. 204+40.5, 33.7 LT  
MH TYP.A 6' DIA. W/ F&G CL TYP.1  
T.O.G. = 610.4  
INV.(SW) = 602.7 INV.(NE) = 602.6  
**OUTLET #3 RESTRICTOR**  
NOTE: SEE DISTRICT DETAIL BD-12 FOR OTHER ELEVATIONS AND REQUIREMENTS

42 STA. 204+50.9, 33.5 LT  
STORM SEWER CONNECTION TO SOUTHWEST SIDE  
T.O.G. = 610.9  
INV.(SW) = 602.5

EXIST. BOX CULVERT  
42 STA. 204+60.9, 37.3 LT  
STORM SEWER CONNECTION TO NORTHEAST SIDE  
T.O.G. = 610.2  
INV.(NE) = 602.5  
NOTE: EXIST. STRUCTURE TO REMAIN

FLAT TOP 45 STA. 207+32.0, 16.9 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 615.6  
INV.(SW) = 606 INV.(SE) = 607.2

46 STA. 205+73.7, 32.3 LT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 612.9  
INV.(SW) = 604 INV.(NE) = 604.3

47 STA. 207+26.9, 30.1 RT  
CB TYP.A 4' DIA. W/ F&G TYP.8  
T.O.G. = 616.6 TO MATCH PROP. SWALE ELEV.  
INV.(SW) = 608.5

FLAT TOP 48 STA. 207+01, 16.3 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 615.2  
INV.(S) = 608.2

FLAT TOP 49 STA. 206+95.7, 26.4 RT  
MH TYP.A 4' DIA. W/ F&G CL TYP.1  
T.O.G. = 615.9 (PROPOSED; SEE CROSS-SECTION)  
INV.(N) = 608.0 INV.(NE) = 608.0  
INV.(SW) = 607.9 (EXISTING, MAINTAIN)

FLAT TOP 50 STA. 204+76.7, 19.5 RT  
CB TYP.A 4' DIA. W/ F&G TYP.24  
T.O.G. = 611.8  
INV.(SE) = 607.3

FLAT TOP 51 STA. 204+76.8, 27.7 RT  
CB TYP.A 4' DIA. W/ F&G OL. TYP.1  
T.O.G. = 611.8  
INV.(NW) = 607.1  
INV.(SW) = 602.5 (EXIST)  
INV.(NE) = 602.6 (EXIST)

**NOTE:**

STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:

- A) TO THE PAVEMENT EDGE, FOR STRUCTURES FALLING IN THE CURB LINE.
- B) TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURE LOCATIONS.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE TABLE</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	et:\pw_work\p1dot\paraynoal\0160753\12709-Design.dgn	DRAWN -	REVISED -		<b>IL ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>				3565	B-N-5	COOK	129	43
	PLOT SCALE = 100.0001' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				<b>CONTRACT NO. 60T24</b>				
	PLOT DATE = 5/6/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

# DRAINAGE STRUCTURES AND STORM SEWERS TABLE

## STORM SEWER PIPES

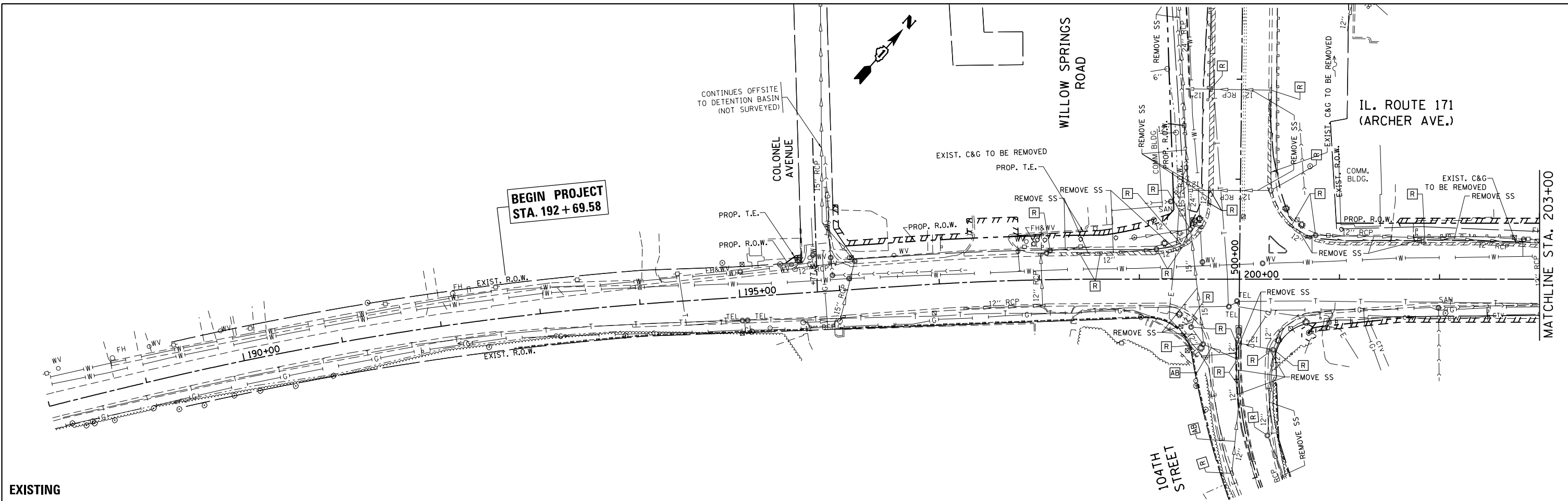
- |  |   |   |
|--|---|---|
| <p>① PROP. STORM SEWER, CLASS A, TYPE 2, 15", 90.3'<br/>TRENCH BACK FILL = 5 CUBIC YARDS</p> <p>④ PROP. STORM SEWER, CLASS A, TYPE 2, 15", 48.1'<br/>TRENCH BACK FILL = 40.7 CUBIC YARDS</p> <p>⑤ PROP. STORM SEWER, CLASS A, TYPE 2, 18", 82'<br/>TRENCH BACK FILL = 7.1 CUBIC YARDS</p> <p>⑧ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 3.0'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>⑨ PROP. STORM SEWER, CLASS A, TYPE 2, 18", 67.5'<br/>TRENCH BACK FILL = 20.4 CUBIC YARDS</p> <p>⑩ PROP. STORM SEWER, CLASS A, TYPE 2, 18", 9.1'<br/>TRENCH BACK FILL = 2.7 CUBIC YARDS</p> <p>⑪ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 89.2'<br/>TRENCH BACK FILL = 24.9 CUBIC YARDS</p> <p>⑫ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 14.3'<br/>TRENCH BACK FILL = 4.8 CUBIC YARDS</p> <p>⑬ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 45.9'<br/>TRENCH BACK FILL = 25.2 CUBIC YARDS</p> <p>⑭ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 17.0'<br/>TRENCH BACK FILL = 8.6 CUBIC YARDS</p> <p>⑮ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 6.6'<br/>TRENCH BACK FILL = 2.1 CUBIC YARDS</p> <p>⑯ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 60.9'<br/>TRENCH BACK FILL = 47.9 CUBIC YARDS</p> <p>⑰ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 8.3'<br/>TRENCH BACK FILL = 4 CUBIC YARDS</p> <p>⑱ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 26.6'<br/>TRENCH BACK FILL = 19 CUBIC YARDS</p> | <p>⑲ PROP. STORM SEWER, CLASS A, TYPE 3, 24", 14.3'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>⑳ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 74.3'<br/>TRENCH BACK FILL = 27.3 CUBIC YARDS</p> <p>㉑ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 7.0'<br/>TRENCH BACK FILL = 4 CUBIC YARDS</p> <p>㉒ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 9.7'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉓ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 8.4'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉔ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 64.5'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉕ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 62.5'<br/>TRENCH BACK FILL = 31.3 CUBIC YARDS</p> <p>㉖ PROP. STORM SEWER, CLASS A, TYPE 3, 12", 29.7'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉗ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 118.7'<br/>TRENCH BACK FILL = 0 CUBIC YARDS</p> <p>㉘ PROP. STORM SEWER, CLASS A, TYPE 2,<br/>EQUIV. ROUND SIZE 24" 123.6' ( 19" X 30" ELLIPTICAL )<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉙ PROP. STORM SEWER, CLASS A, TYPE 2,<br/>EQUIV. ROUND SIZE 24" 21.9' ( 19" X 30" ELLIPTICAL )<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉚ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 11.7'<br/>TRENCH BACK FILL = 7.8 CUBIC YARDS</p> <p>㉛ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 115.3'<br/>TRENCH BACK FILL = 101.5 CUBIC YARDS</p> <p>㉜ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 3.0'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㉝ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 104.8'<br/>TRENCH BACK FILL = 94.3 CUBIC YARDS</p> | <p>㉞ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 6.1'<br/>TRENCH BACK FILL = 1.7 CUBIC YARDS</p> <p>㉟ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 2.2'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㊱ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 74.8'<br/>TRENCH BACK FILL = 73.5 CUBIC YARDS</p> <p>㊲ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 4.6'<br/>TRENCH BACK FILL = 1.3 CUBIC YARDS</p> <p>㊳ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 2.4'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㊴ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 63.4'<br/>TRENCH BACK FILL = 45.2 CUBIC YARDS</p> <p>㊵ PROP. STORM SEWER, CLASS A, TYPE 2, 24", 7.8'<br/>TRENCH BACK FILL = 8.1 CUBIC YARDS</p> <p>㊶ PROP. STORM SEWER, CLASS A, TYPE 2, 18", 155.4'<br/>TRENCH BACK FILL = 201.1 CUBIC YARDS</p> <p>㊷ PROP. STORM SEWER, CLASS A, TYPE 2, 18", 111.3'<br/>TRENCH BACK FILL = 103.8 CUBIC YARDS</p> <p>㊸ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 27.6'<br/>TRENCH BACK FILL = 0 CUBIC YARD</p> <p>㊹ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 6.0'<br/>TRENCH BACK FILL = 5.1 CUBIC YARDS</p> <p>㊺ PROP. STORM SEWER, CLASS A, TYPE 2, 12", 5.6'<br/>TRENCH BACK FILL = 1.4 CUBIC YARDS</p> |
|--|---|---|

**NOTE:**

STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:

- A) TO THE PAVEMENT EDGE, FOR STRUCTURES FALLING IN THE CURB LINE.
- B) TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURE LOCATIONS.

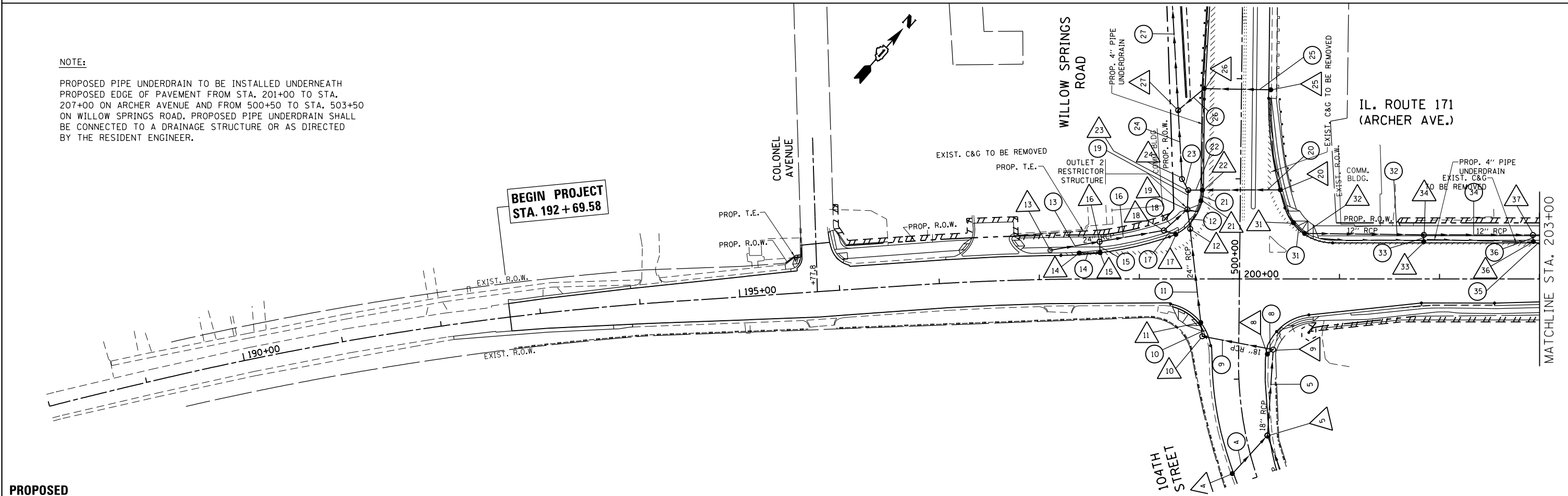
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Default	2709-Design.dgn	DRAWN -	REVISED -			3565	B-N-5	COOK	129	44	
	PLOT SCALE = 99.9997' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
	PLOT DATE = 12/13/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA. TO STA.	



**EXISTING**

**NOTE:**

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO STA. 207+00 ON ARCHER AVENUE AND FROM 500+50 TO STA. 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.



**PROPOSED**

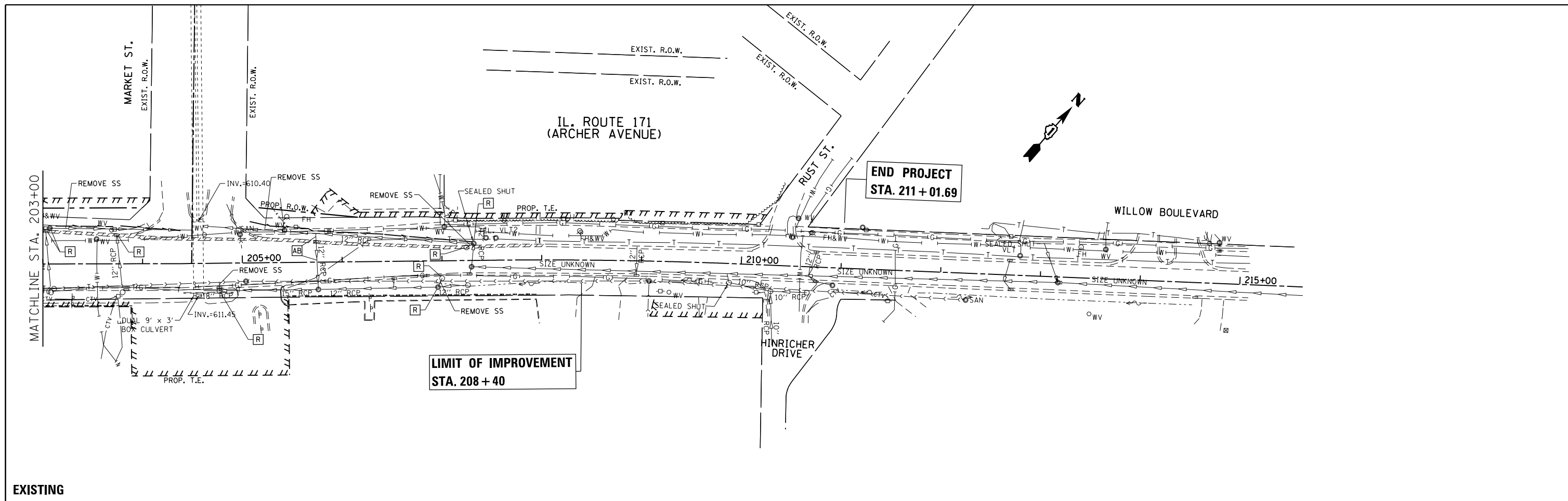
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	PLOT DATE = 12/13/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

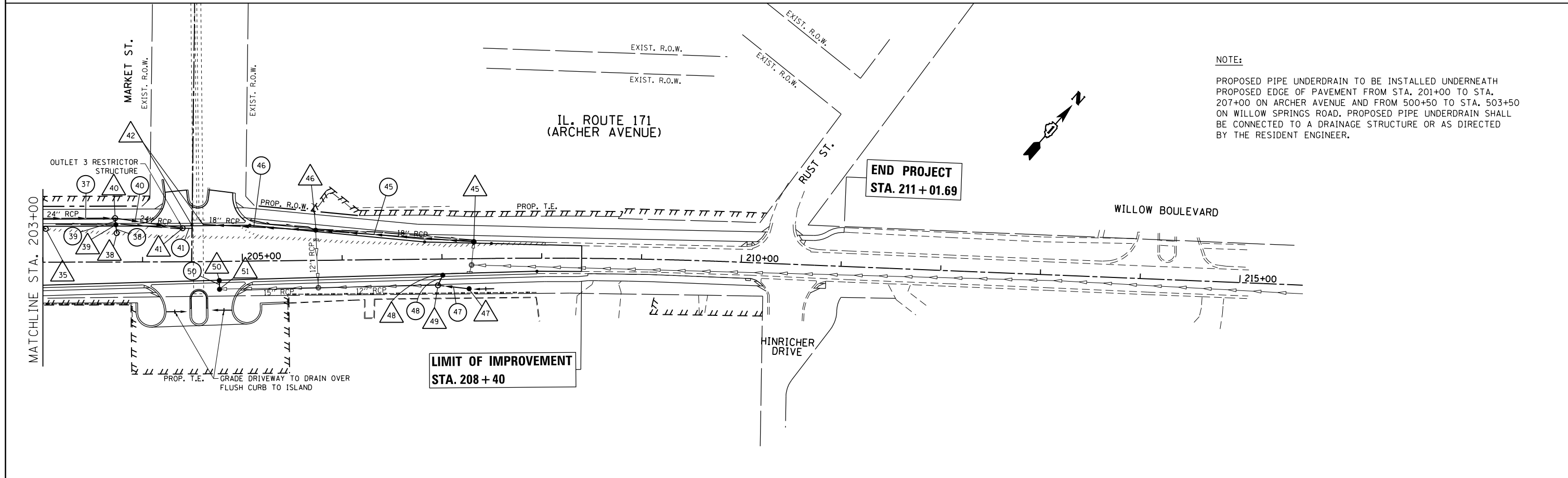
**DRAINAGE PLAN  
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	45
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



**EXISTING**



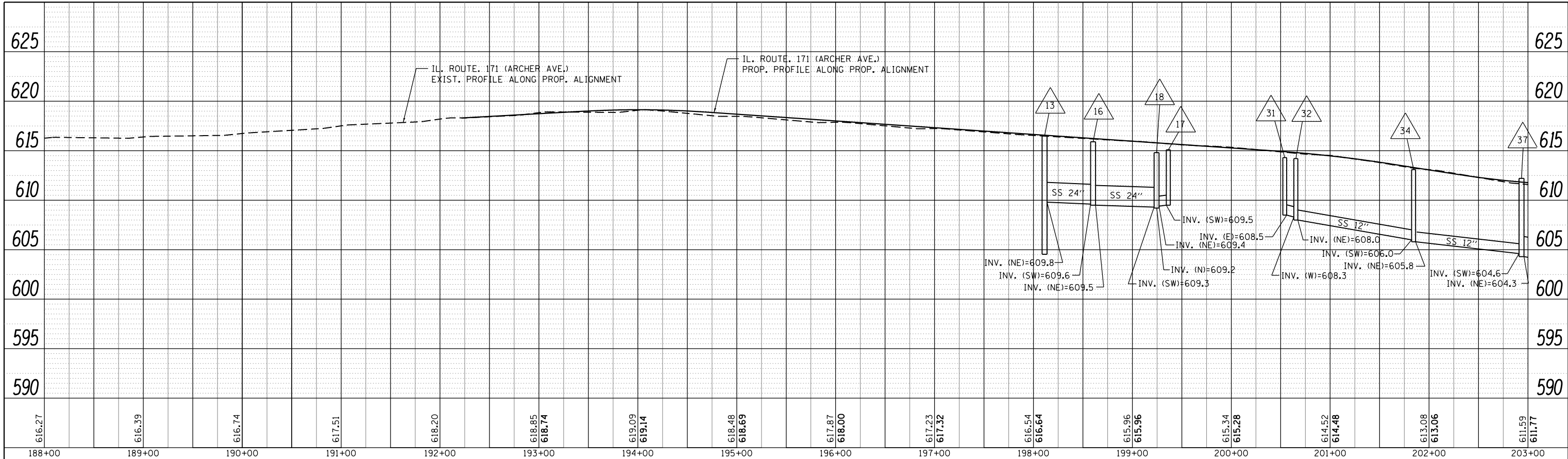
**NOTE:**  
 PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO STA. 207+00 ON ARCHER AVENUE AND FROM 500+50 TO STA. 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.

**PROPOSED**

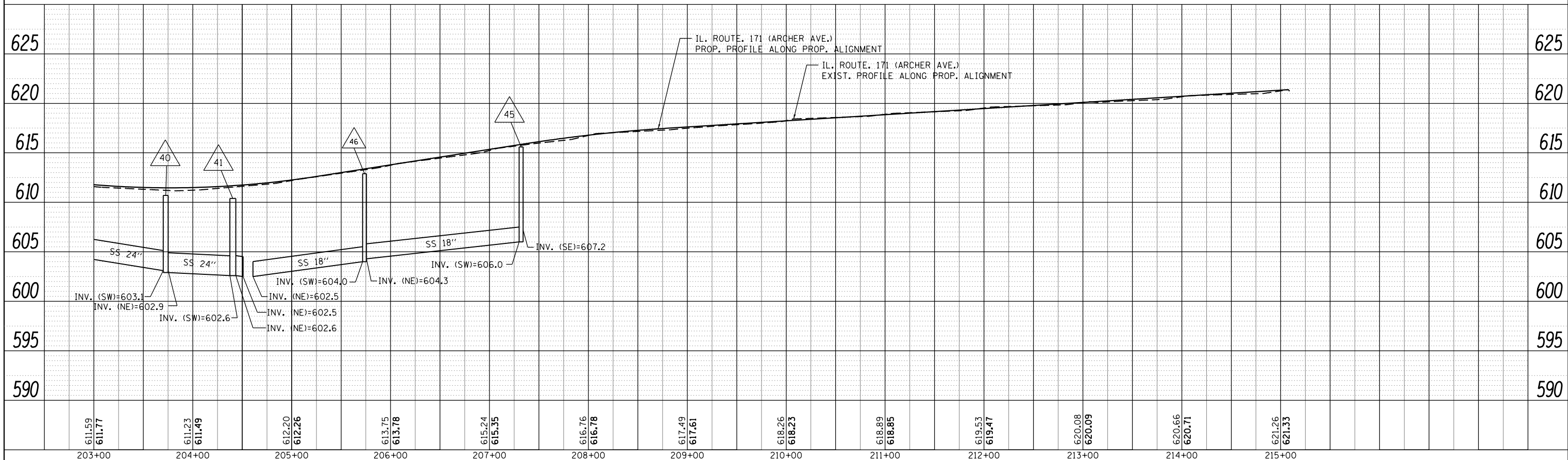
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Default	PLOT DATE = 12/13/2013	CHECKED -	REVISED -			<b>CONTRACT NO. 60T24</b>					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CHECKED	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CHECKED	
	FILE NAME	



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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

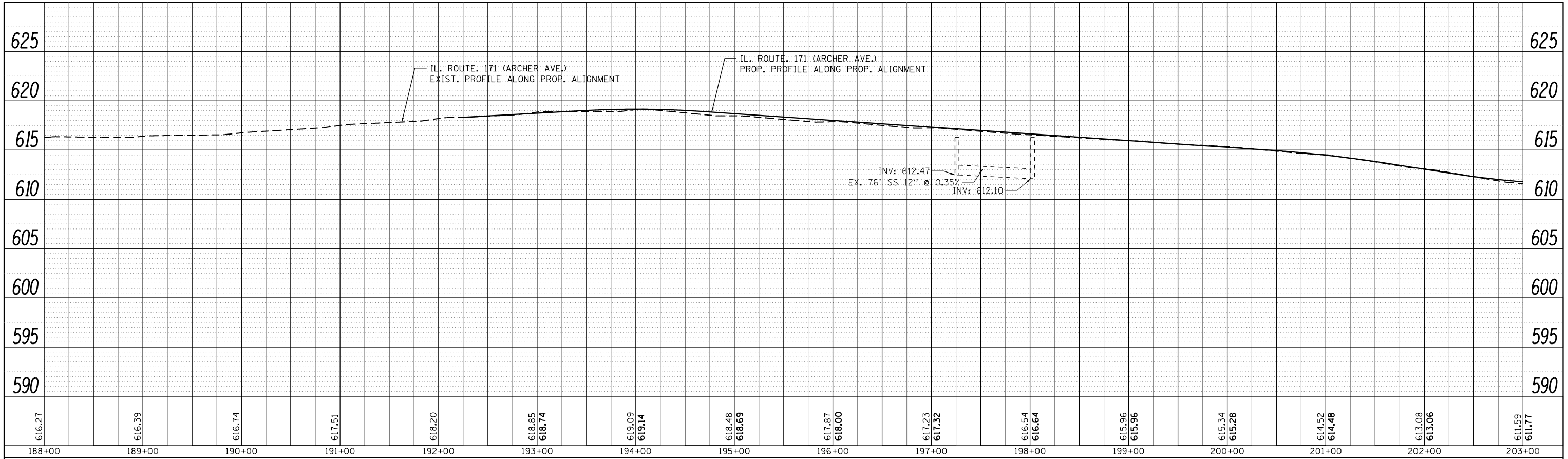
**DRAINAGE PROFILE LEFT SIDE  
IL. ROUTE 171 (ARCHER AVE.)**

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

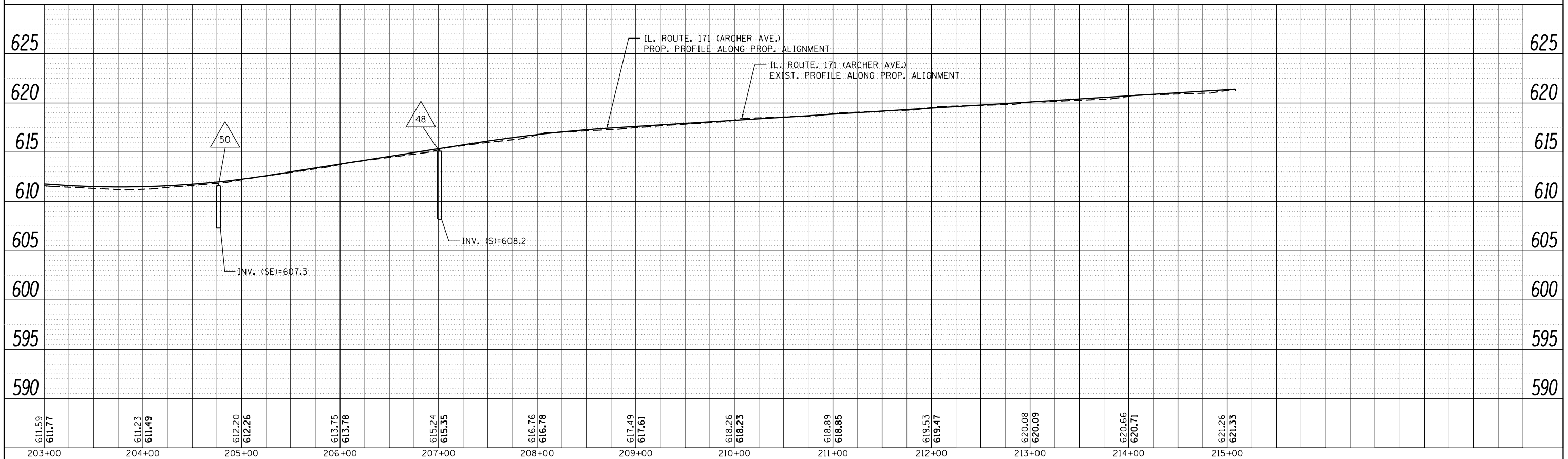
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3565		COOK	129	47
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



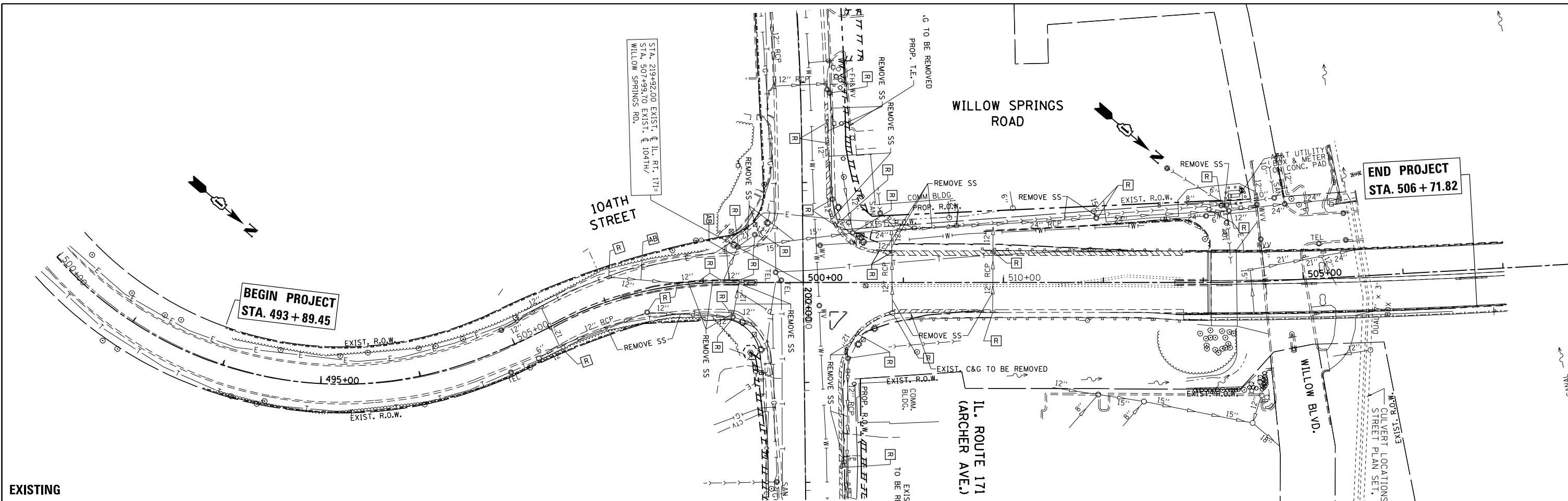
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	PLOTTED	
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	CHECKED	
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PROFILE	SURVEYED	DATE
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	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS CHECKED	
	NO.	



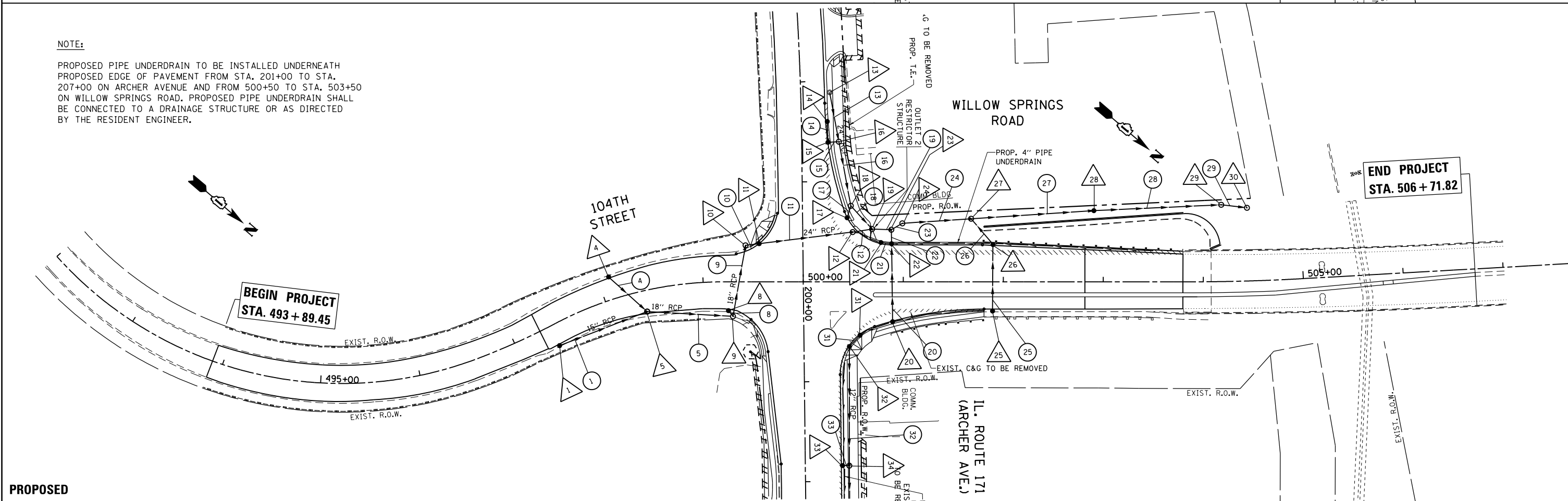
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		SCALE: 1"=50'				CONTRACT NO. 60T24				
PLOT DATE = 12/13/2013		DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				



EXISTING

**NOTE:**

PROPOSED PIPE UNDERDRAIN TO BE INSTALLED UNDERNEATH PROPOSED EDGE OF PAVEMENT FROM STA. 201+00 TO STA. 207+00 ON ARCHER AVENUE AND FROM 500+50 TO STA. 503+50 ON WILLOW SPRINGS ROAD. PROPOSED PIPE UNDERDRAIN SHALL BE CONNECTED TO A DRAINAGE STRUCTURE OR AS DIRECTED BY THE RESIDENT ENGINEER.



PROPOSED

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
Default	Default	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

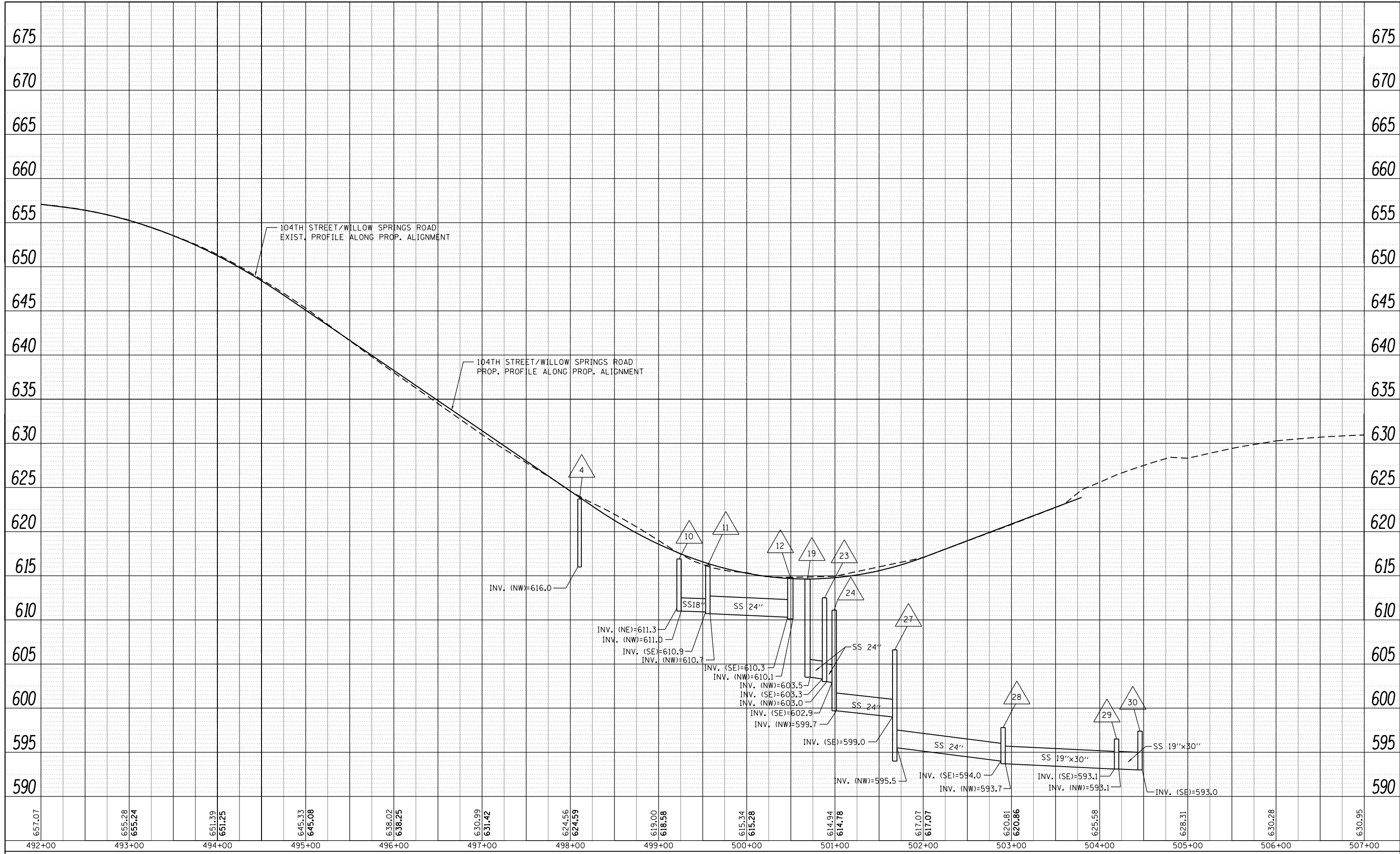
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DRAINAGE PLAN**  
**IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**  
SCALE: 1"=50'  
SHEET OF SHEETS STA. TO STA.

F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	49
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE	
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	PLOT DATE = 12/13/2013	DATE -	REVISED -

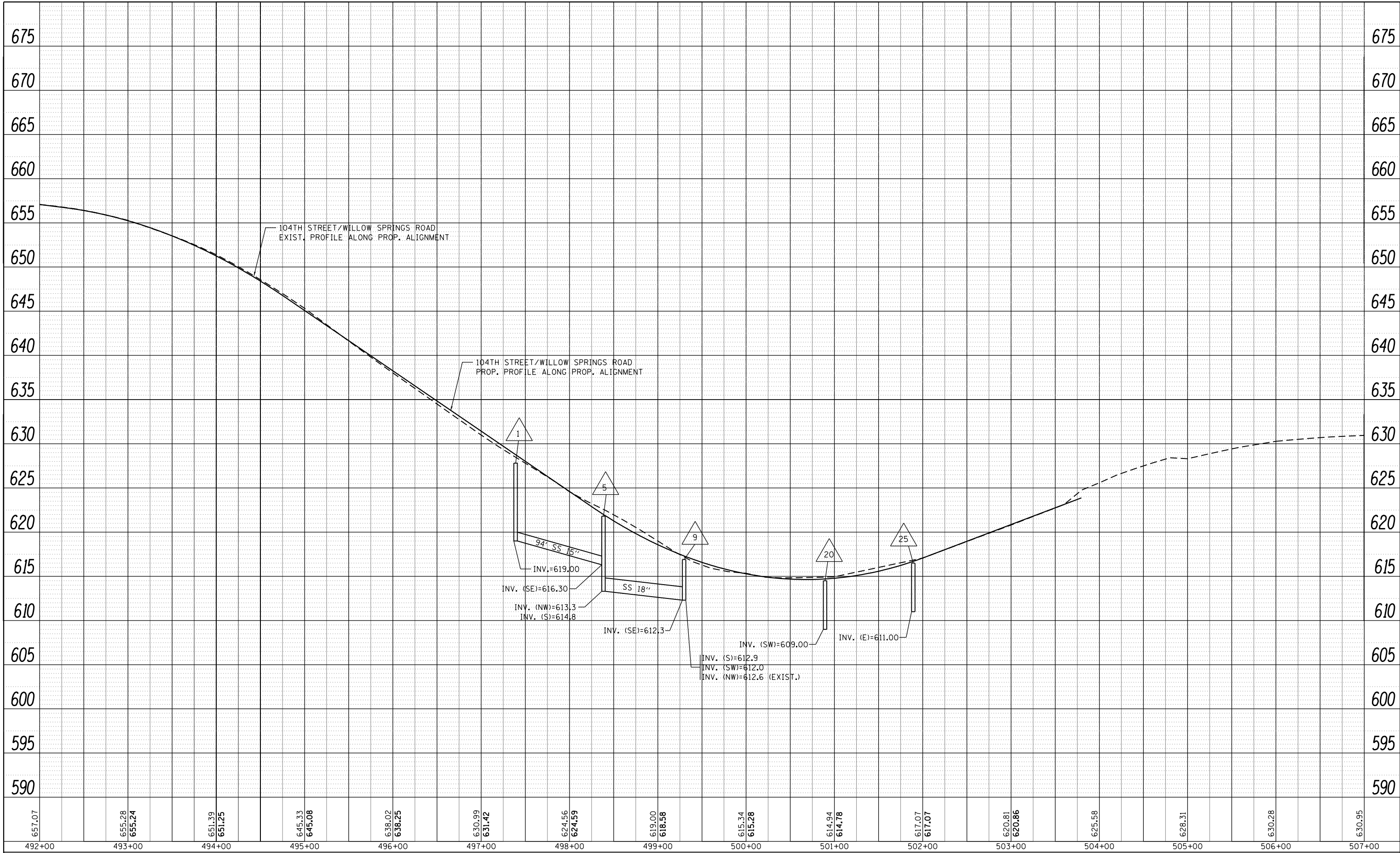
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE PROFILE LEFT SIDE 104th AVENUE (WILLOW SPRINGS RD)</b>			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565		COOK	129	50
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
	NO.	

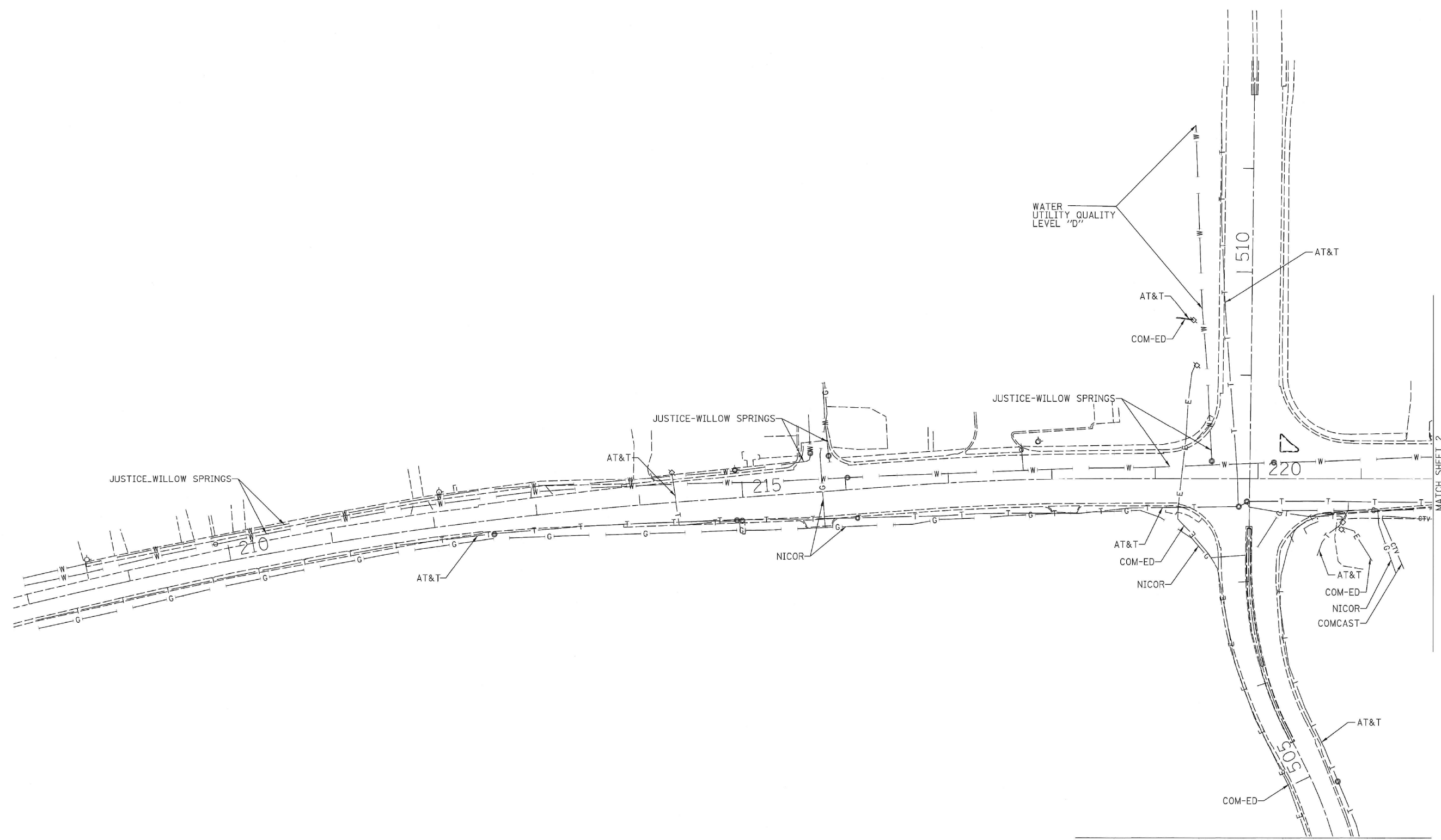
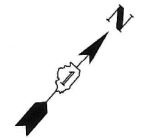


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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE PROFILE RIGHT SIDE</b>			
<b>104th AVENUE (WILLOW SPRINGS RD)</b>			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565		COOK	129	51
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

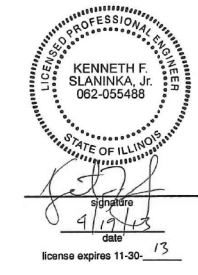
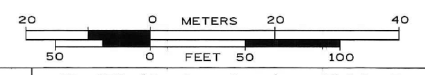


— A — A —	AERIAL
— O — O —	UNKNOWN
— CTV — CTV —	OIL
— T — T —	CABLE TV
— G — G —	TELEPHONE
— E — E —	GAS
— W — W —	ELECTRIC
—> —> —> —>	WATER
— FO — FO —	FORCE MAIN
—> —> —> —>	FIBER OPTIC
⊙	END OF INFORMATION
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
COMCAST	= CABLE TV
COM-ED	= ELECTRIC
JUSTICE-WILLOW SPRINGS	= WATER
NICOR	= GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL "B" SUE field investigation was performed 3/02/13 through 3/21/13. Changes to utilities after 3/21/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

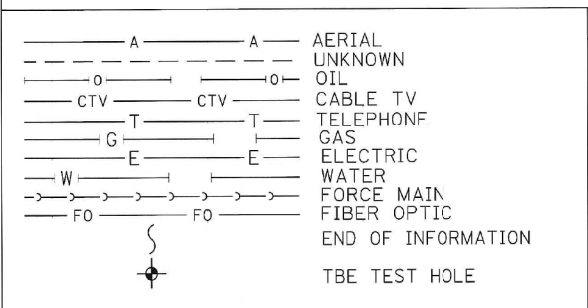
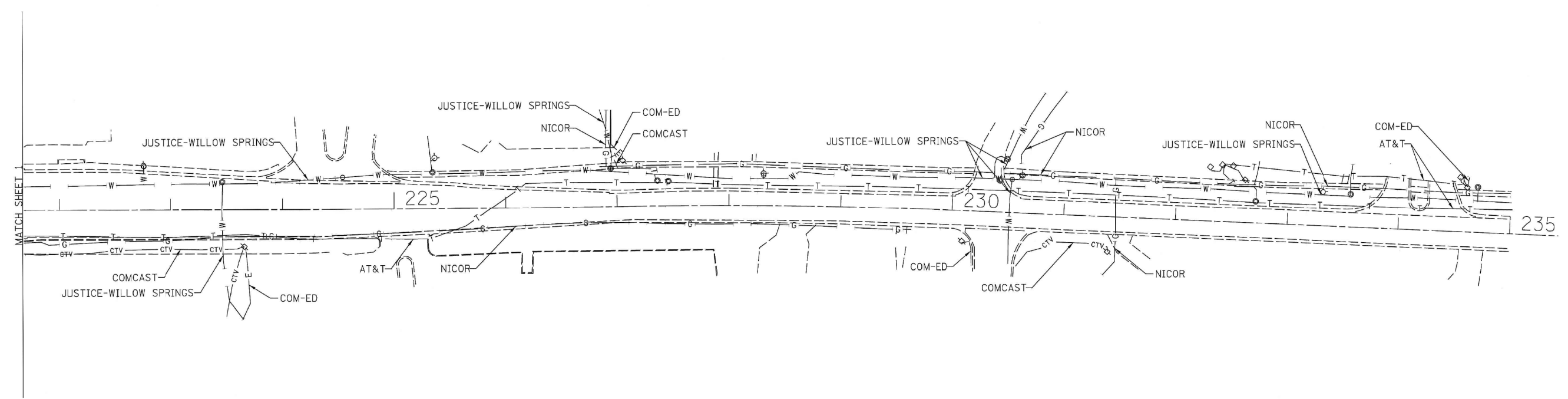
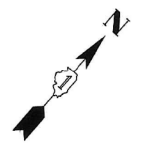
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DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	4/05/13	REVISED	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 171 (Archer Ave.) at 104th Avenue (Willow Springs Road)  
 Willow Springs, Illinois

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	Cook	129	52
Contract No. 60T24				
FED. ROAD DIST. No. - [ILLINOIS] IDOT Project No.				

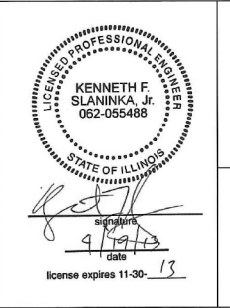
TBE Job No. IL09510523  
 SUE Plan Page: 1 of 3



UTILITY OWNERS	
AT&T	= TELEPHONE
COMCAST	= CABLE TV
COM-ED	= ELECTRIC
JUSTICE-WILLOW SPRINGS	= WATER
NICOR	= GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL "B" SUE field investigation was performed 3/02/13 through 3/21/13. Changes to utilities after 3/21/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510523  
 SUE Plan Page: 2 of 3

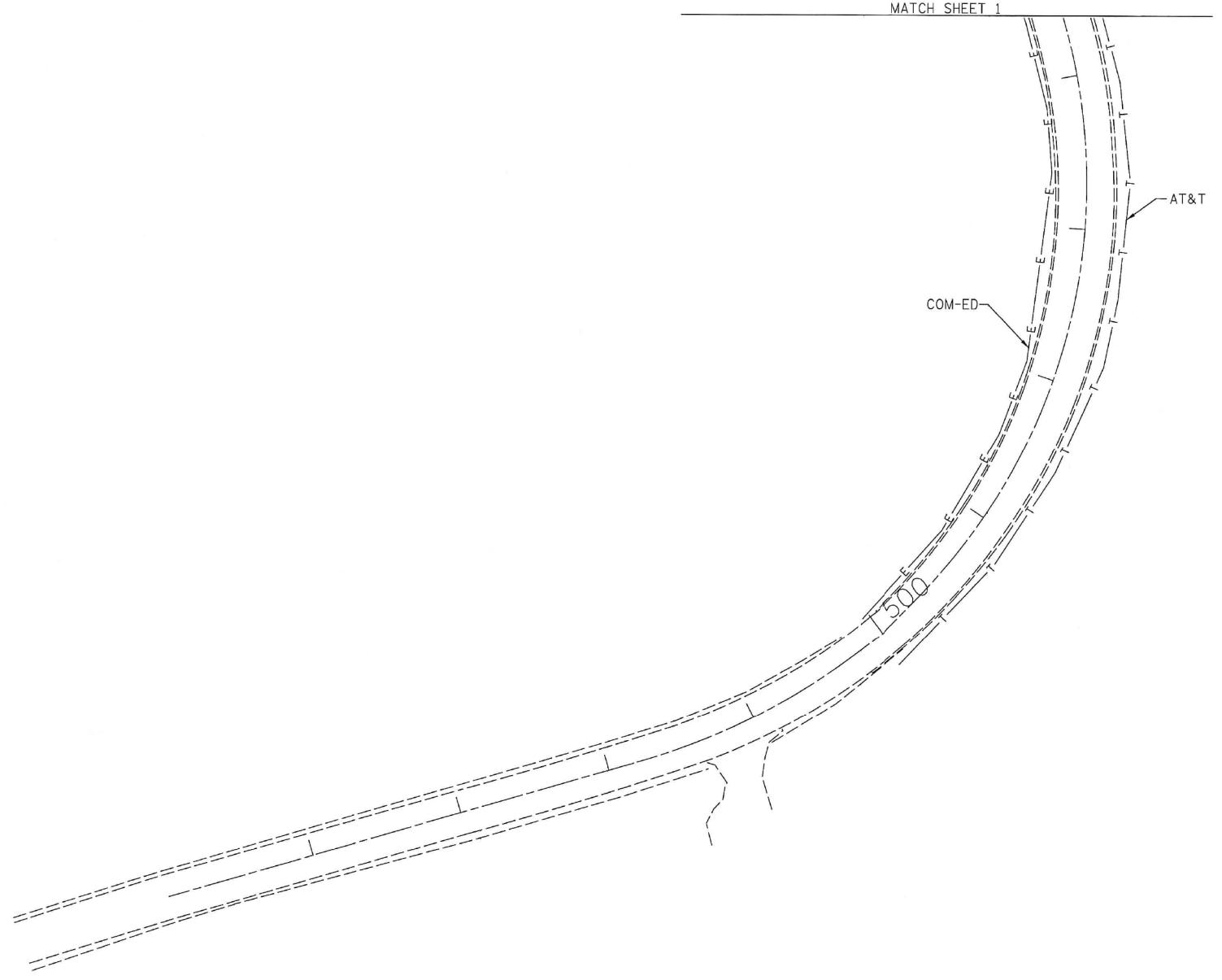
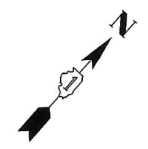
Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

DESIGNED	MS	REVISED	
DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	4/05/13	REVISED	

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

**IL 171 (Archer Ave.) at 104th Avenue (Willow Springs Road)**  
**Willow Springs, Illinois**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	Cook	129	53
Contract No. 60T24				
FED. ROAD DIST. No. - ILLINOIS IDOT Project No.				

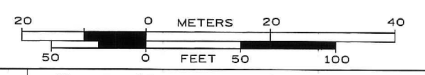


— A — A —	AERIAL
— 0 — 0 —	UNKNOWN
— O — O —	OIL
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
—> —> —> —> —>	FORCE MAIN
— FO — FO —	FIBER OPTIC
⊙	END OF INFORMATION
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
COMCAST	= CABLE TV
COM-ED	= ELECTRIC
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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

DESIGNED	MS	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	4/05/13	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

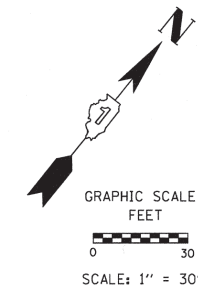
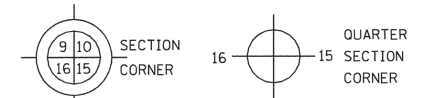
**IL 171 (Archer Ave.) at 104th Avenue (Willow Springs Road)  
Willow Springs, Illinois**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	Cook	129	54
Contract No. 60T24				
FED. ROAD DIST. NO. - [ILLINOIS] 100T Project No.				

TBE Job No. IL09510523  
SUE Plan Page: 3 of 3

PART OF THE SE 1/4 OF SECTION 32 & SW 1/4 OF SECTION 33 TWP. 38 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS. PART OF THE NE 1/4 OF SECTION 5, TWP. 37 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.

LEGEND

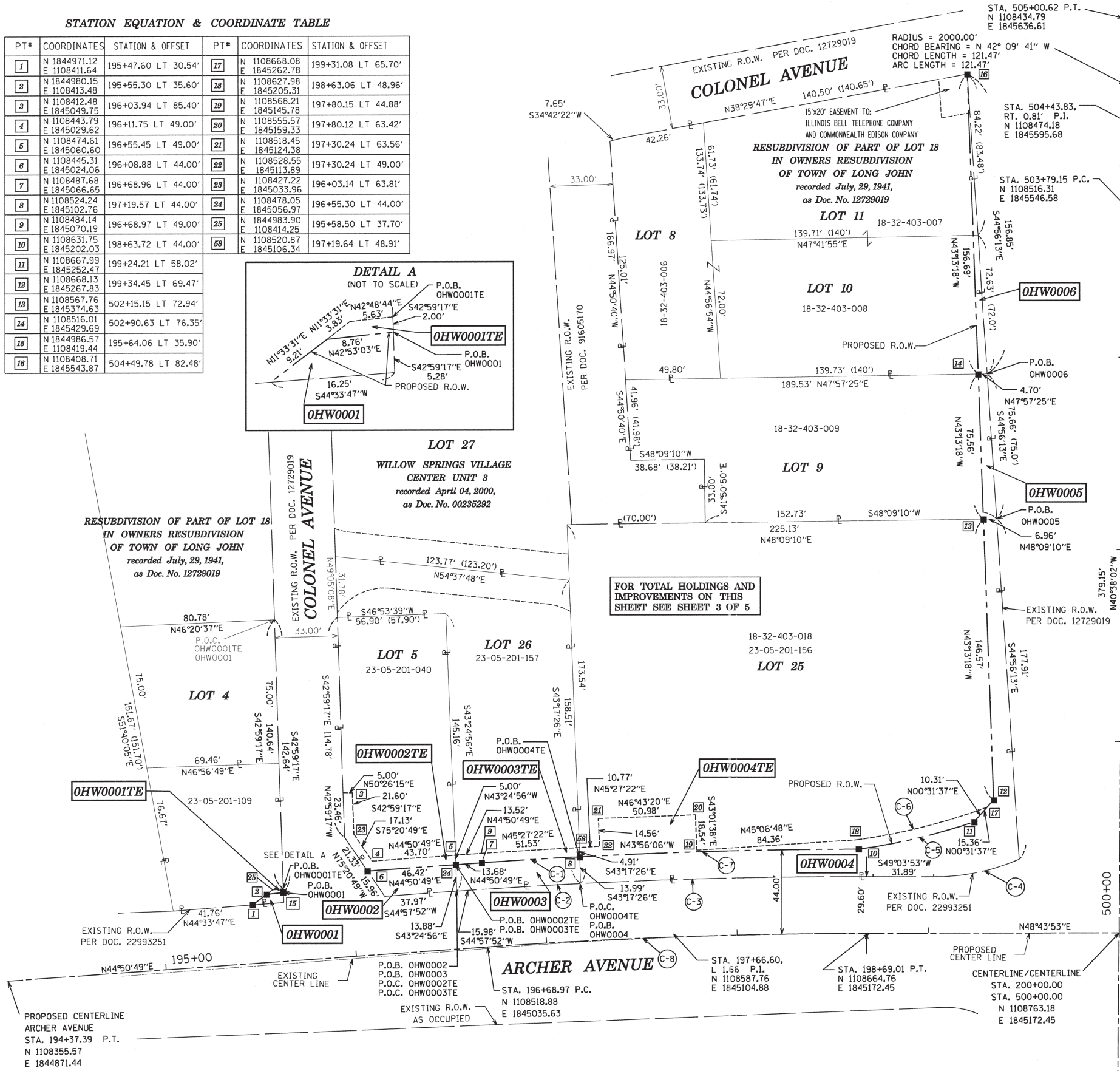
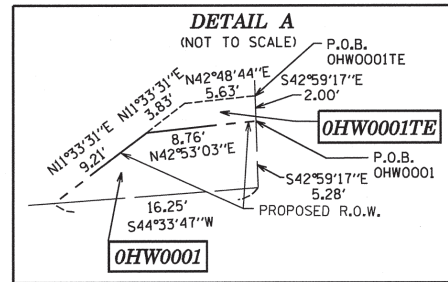


- SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
129.32' RECORDED DIMENSION
EXISTING BUILDING

- IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

STATION EQUATION & COORDINATE TABLE

Table with 5 columns: PT#, COORDINATES, STATION & OFFSET, PT#, COORDINATES, STATION & OFFSET. Contains 16 rows of stationing data.



- C-1 RADIUS = 2925.89' CHORD BEARING = N45°21'01"E CHORD LENGTH = 51.36' ARC LENGTH = 51.36'
C-2 RADIUS = 2826.61' CHORD BEARING = S45°27'41"W CHORD LENGTH = 49.03' ARC LENGTH = 49.03'
C-3 RADIUS = 2826.61' CHORD BEARING = S47°30'42"W CHORD LENGTH = 153.24' ARC LENGTH = 153.26'
C-4 RADIUS = 112.00' CHORD BEARING = S37°17'44"W CHORD LENGTH = 45.69' ARC LENGTH = 46.01'
C-5 RADIUS = 332.42' CHORD BEARING = N35°41'26"E CHORD LENGTH = 62.11' ARC LENGTH = 62.20'
C-6 RADIUS = 327.42' CHORD BEARING = N34°54'29"E CHORD LENGTH = 70.07' ARC LENGTH = 70.21'
C-7 RADIUS = 2925.89' CHORD BEARING = N47°17'09"E CHORD LENGTH = 146.33' ARC LENGTH = 146.35'
C-8 RADIUS = 2881.89' CHORD BEARING = N46°50'08"E CHORD LENGTH = 200.00' ARC LENGTH = 200.04'

SEE SHEET 3 OF 5

SEE SHEET 3 OF 5

STATE OF ILLINOIS)
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, MARK G. SCHELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 32 AND 33, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTION 5, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT \_\_\_\_\_, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2012 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3581
LICENSE EXPIRATION DATE: 11-30-2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



RECEIVED JUL 14 2012 PLATS & LEGALS ENGINEERING ENTERPRISES, INC. CONSULTING ENGINEERS & LAND SURVEYORS 52 WHEELER ROAD SUGAR GROVE, ILLINOIS 60554 PH. (630)466-6700 / www.eeiweb.com

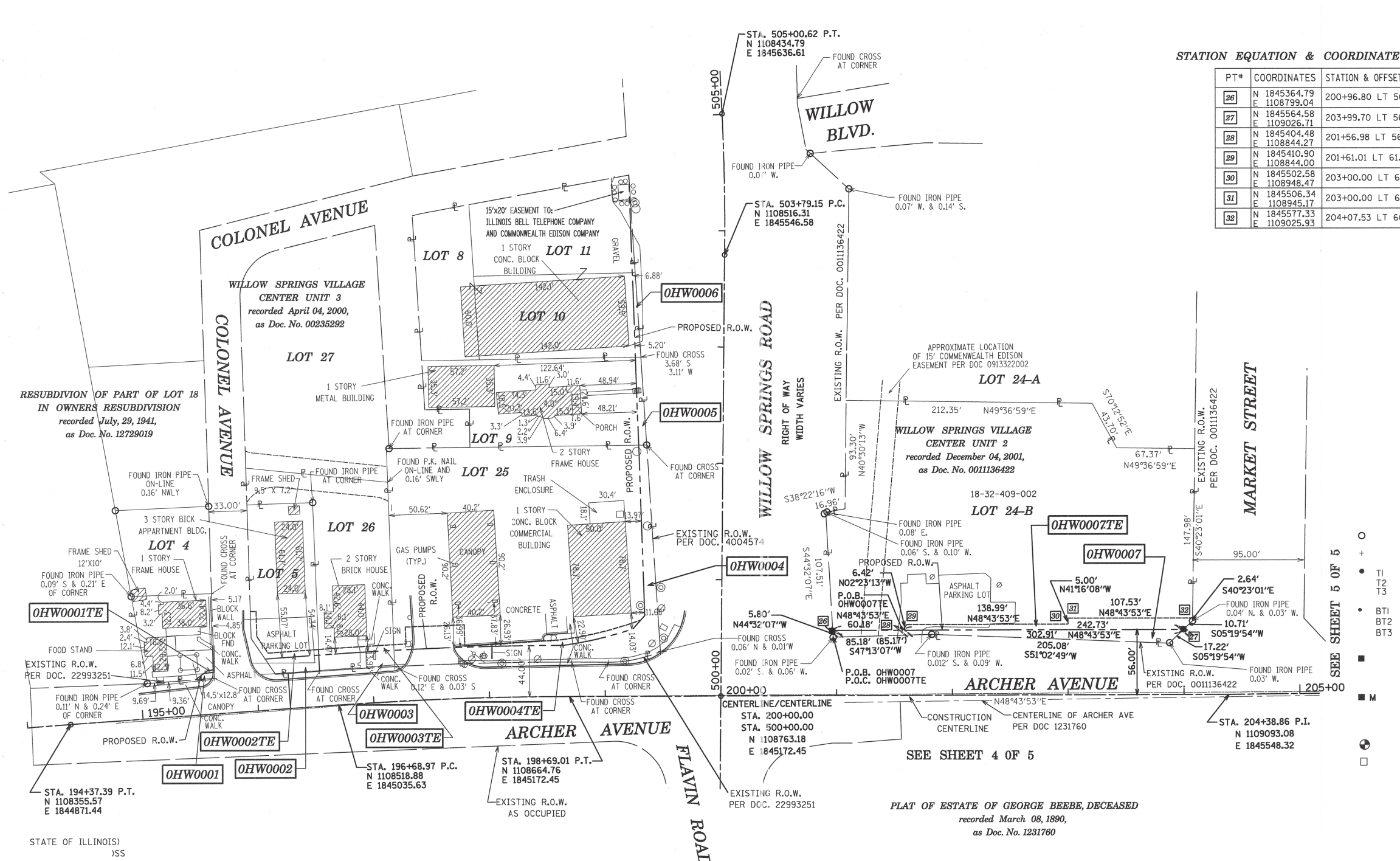
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 171 (ARCHER AVE.)
LIMITS: COLONEL AVE. TO RUST ST. COUNTY: COOK
PROJECT: Archer Ave JOB NO.: R-90-001-12
STATION 194+37.39 TO STATION 200+00.00
SCALE: 1"=50' SHEET 2 OF 5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

Coordinates are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone. Listed coordinates are on the ground. All measured and calculated distances are on the ground.
combined scale factor = 0.99996862
To obtain State Plane grid coordinates, multiply the Northing by scale factor (0.99996862) then add 57.91.
Multiply Easting by scale factor (0.99996862) then add 34.79.

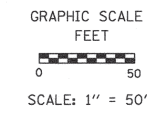


PART OF THE SE 1/4 OF SECTION 32 & SW 1/4 OF SECTION 33 TWP. 38 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.  
 PART OF THE NE 1/4 OF SECTION 5, TWP. 37 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.



STATION EQUATION & COORDINATE TABLE

PT#	COORDINATES	STATION & OFFSET
26	N 1845364.79 E 1108799.04	200+96.80 LT 56.00'
27	N 1845564.58 E 1109026.71	203+99.70 LT 56.00'
28	N 1845404.48 E 1108844.27	201+56.98 LT 56.00'
29	N 1845410.90 E 1108844.00	201+61.01 LT 61.00'
30	N 1845502.58 E 1108948.47	203+00.00 LT 61.00'
31	N 1845506.34 E 1108945.17	203+00.00 LT 66.00'
32	N 1845577.33 E 1109025.93	204+07.53 LT 66.00'



LEGEND



- SECTION LINE
- - - QUARTER SECTION LINE
- - - QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- - - PROPERTY (DEED) LINE
- - - APL
- - - APPARENT PROPERTY LINE
- - - EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- - - EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- [Hatched Box] EXISTING BUILDING

SEE SHEET 5 OF 5

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
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- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

Coordinates are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone. Listed coordinates are on the ground. All measured and calculated distances are on the ground.  
 combined scale factor = 0.99996862  
 To obtain State Plane grid coordinates, multiply the Northing by scale factor (0.99996862) then add 57.91.  
 Multiply Easting by scale factor (0.99996862) then add 34.79.

STATE OF ILLINOIS  
 COUNTY OF KANE

THIS IS TO CERTIFY THAT I, MARK G. SCHELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 32 AND 33, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SUGAR GROVE, ILLINOIS THIS 20TH DAY OF FEBRUARY 2013 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3581  
 LICENSE EXPIRATION DATE: 11-30-2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	AREA TAKEN		AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ FEET			ACRES	SQUARE FEET			
OHW0001TE OHW0001	SCOTT M. MARQUARDT	0.109	0.002	64	-	0.107	-	14	Construction	23-05-201-109	
OHW0002TE OHW0002	JOSEPH LANDA AND BRONISLAWA LANDA	0.187	0.013	584	-	0.174	0.010	434	Construction	23-05-201-040	
OHW0003TE OHW0003	LUCILLE A. MIEROP	0.282	0.021	906	-	0.261	0.007	319	Construction	23-05-201-157	
OHW0004TE OHW0004	PARKWAY BANK AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED FEBRUARY 13, 2003 KNOWN AS TRUST NO. 13502	0.970	0.124	5378	-	0.846	0.037	-	Construction	18-32-403-018 23-05-201-156	
OHW0005	BOWER GARDEN, LLC	0.299	0.010	440	-	0.289	-	-	-	18-32-403-009	
OHW0006	WILLOW BUSINESS CENTER, LLC	0.613	0.008	368	-	0.605	-	-	-	18-32-403-006 18-32-403-007 18-32-403-008	
OHW0007TE OHW0007	RTG-WILLOW SPRINGS, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	1.362	0.047	2048	-	1.315	0.040	-	Construction	18-32-409-002	

REVISION DATE: 02/20/13

H:/SDSKPROJ/ID1003-G/DGN/DGNXREF/ID1003-G PLAT OF HIGHWAY 02

MADE BY:

ENGINEERING ENTERPRISES, INC.  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 52 WHEELER ROAD  
 SUGAR GROVE, ILLINOIS 60554  
 PH. (630)466-6700 / www.eeiweb.com

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 IL ROUTE 171 (ARCHER AVE.)  
 LIMITS: COLONEL AVE. TO RUST ST. COUNTY: COOK  
 PROJECT: Archer Ave JOB NO.: R-90-001-12  
 STATION 194+37.39 TO STATION 205+00.00  
 SCALE: 1"=50' SHEET 3 OF 6

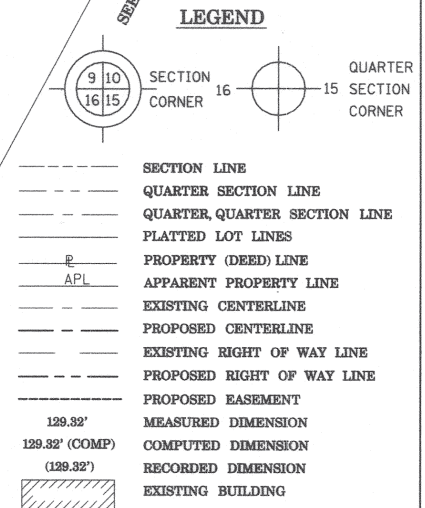
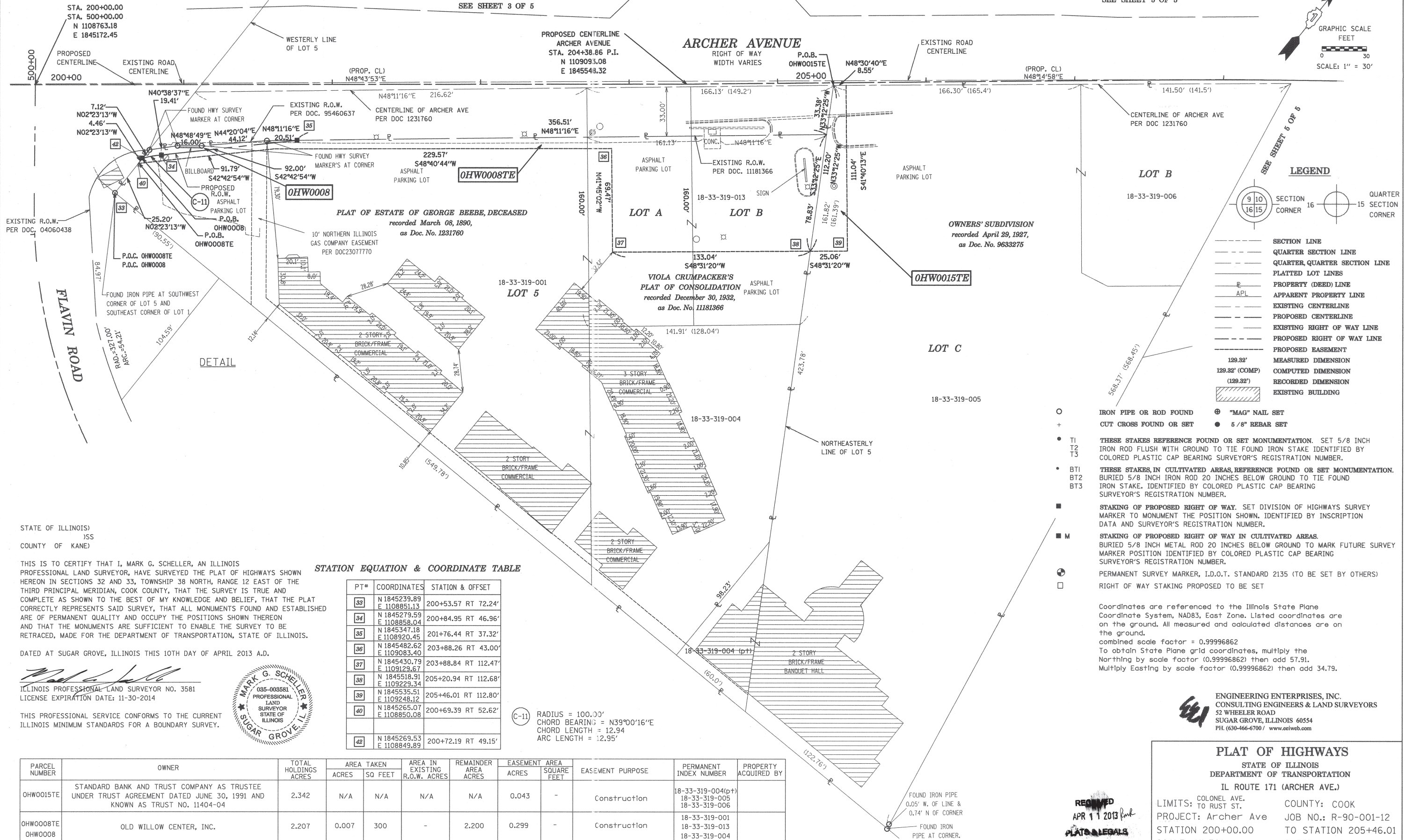
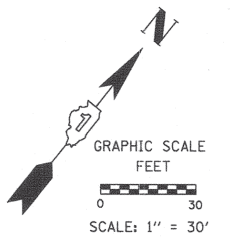
BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

RECEIVED  
 FEB 21 2013  
 PLATS & LEGALS

PART OF THE SE 1/4 OF SECTION 32 & SW 1/4 OF SECTION 33 TWP. 38 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.  
 PART OF THE NE 1/4 OF SECTION 5, TWP. 37 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.

SEE SHEET 3 OF 5

SEE SHEET 5 OF 5



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
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ENGINEERING ENTERPRISES, INC.  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 52 WHEELER ROAD  
 SUGAR GROVE, ILLINOIS 60554  
 PH. (630-466-6700 / www.eeiweb.com)

STATION EQUATION & COORDINATE TABLE

PT#	COORDINATES	STATION & OFFSET
33	N 1845239.89 E 1108851.13	200+53.57 RT 72.24'
34	N 1845279.59 E 1108858.04	200+84.95 RT 46.96'
35	N 1845347.18 E 1108920.45	201+76.44 RT 37.32'
36	N 1845482.62 E 1109083.40	203+88.26 RT 43.00'
37	N 1845430.79 E 1109129.67	203+88.84 RT 112.47'
38	N 1845518.91 E 1109229.34	205+20.94 RT 112.68'
39	N 1845535.51 E 1109248.12	205+46.01 RT 112.80'
40	N 1845265.07 E 1108850.08	200+69.39 RT 52.62'
42	N 1845269.53 E 1108849.89	200+72.19 RT 49.15'

(C-11) RADIUS = 100.00'  
 CHORD BEARING = N39°00'16"E  
 CHORD LENGTH = 12.94  
 ARC LENGTH = 12.95'

STATE OF ILLINOIS  
 COUNTY OF KANE

THIS IS TO CERTIFY THAT I, MARK G. SCHELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 32 AND 33, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SUGAR GROVE, ILLINOIS THIS 10TH DAY OF APRIL 2013 A.D.

MARK G. SCHELLER  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3581  
 LICENSE EXPIRATION DATE: 11-30-2014



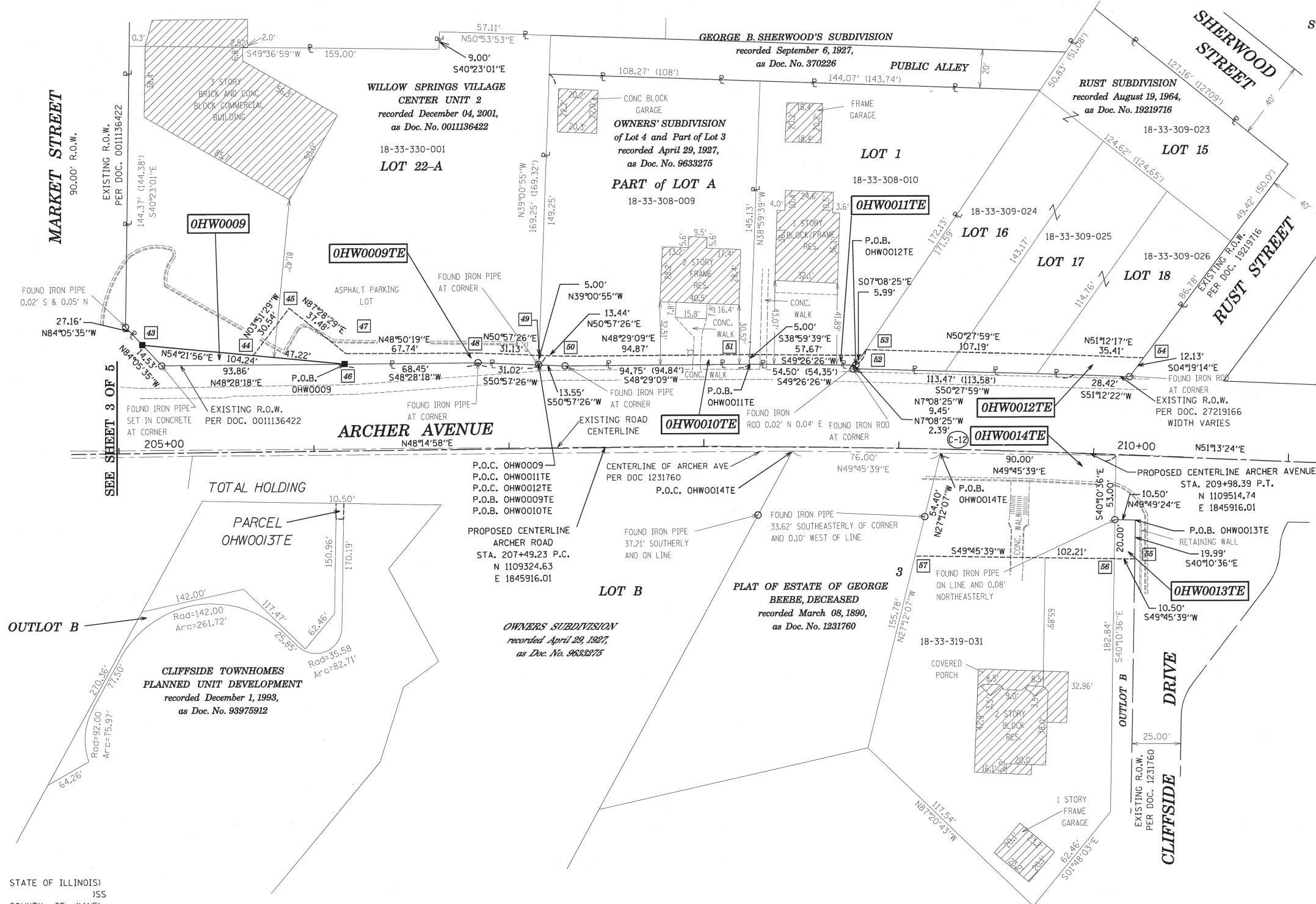
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	AREA TAKEN		REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ FEET		ACRES	SQUARE FEET			
OHWO015TE	STANDARD BANK AND TRUST COMPANY AS TRUSTEE UNDER TRUST AGREEMENT DATED JUNE 30, 1991 AND KNOWN AS TRUST NO. 11404-04	2.342	N/A	N/A	N/A	N/A	0.043	-	18-33-319-004(p+) 18-33-319-005 18-33-319-006	Construction
OHWO008TE OHWO008	OLD WILLOW CENTER, INC.	2.207	0.007	300	-	2.200	0.299	-	18-33-319-001 18-33-319-013 18-33-319-004	Construction

RECORDED  
 APR 11 2013  
 PLATS & LEGALS

PLAT OF HIGHWAYS  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 IL ROUTE 171 (ARCHER AVE.)  
 LIMITS: COLONEL AVE. TO RUST ST. COUNTY: COOK  
 PROJECT: Archer Ave JOB NO.: R-90-001-12  
 STATION 200+00.00 TO STATION 205+46.01  
 SCALE: 1"=30' SHEET 4 OF 6

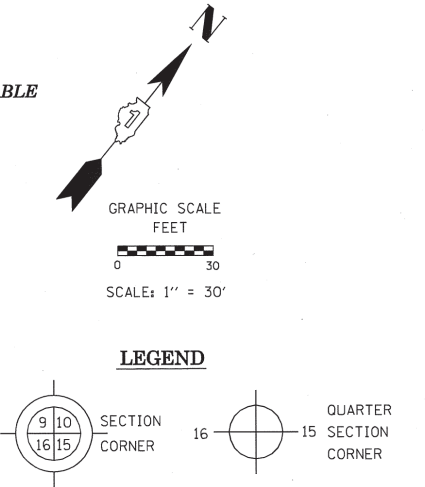
BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

PART OF THE SE 14 OF SECTION 32 TWP. 38 N., R. 12 E. OF THE 3RD P.M., IN COOK COUNTY, ILLINOIS.



STATION EQUATION & COORDINATE TABLE

PT#	COORDINATES	STATION & OFFSET
43	N 1109111.06 E 1845638.89	205+12.58 LT 55.60'
44	N 1109157.40 E 1845672.11	205+69.28 LT 49.52'
45	N 1109155.34 E 1845702.58	205+88.04 LT 73.63'
46	N 1109195.78 E 1845699.62	206+16.25 LT 44.49'
47	N 1109192.79 E 1845704.23	206+17.07 LT 49.92'
48	N 1109243.78 E 1845748.82	206+84.81 LT 49.23'
49	N 1109267.96 E 1845768.42	207+15.90 LT 47.75'
50	N 1109278.40 E 1845776.89	207+29.32 LT 47.12
51	N 1109349.44 E 1845839.77	208+23.47 LT 47.31'
52	N 1109373.25 E 1845877.26	208+80.57 LT 47.34'
53	N 1109392.82 E 1845880.70	208+82.44 LT 50.24'
54	N 1109503.04 E 1845971.08	210+23.77 LT 50.26'
55	N 1109567.39 E 1845890.22	210+23.29 RT 53.08'
56	N 1109559.37 E 1845883.44	210+12.79 RT 53.34'
57	N 1109481.35 E 1845817.41	209+09.59 RT 55.14'



C-12 RADIUS = 4800.00  
CHORD BEARING = N49°44'11"E  
CHORD LENGTH = 249.13'  
ARC LENGTH = 249.16'

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

RECEIVED  
APR 26 2012  
PLATS & LEGALS

Coordinates are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation. Listed coordinates are on the ground. All measured and calculated distances are on the ground.  
combined scale factor = 0.99996862  
To obtain State Plane grid coordinates, multiply the Northing by scale factor (0.99996862) then add 57.91. Multiply Easting by scale factor (0.99996862) then add 34.79.

STATE OF ILLINOIS)  
)SS  
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, MARK G. SCHELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTION 5, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT \_\_\_\_\_, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2012 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3581  
LICENSE EXPIRATION DATE: 11-30-2012



THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	AREA TAKEN		REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SO FEET		ACRES	SQUARE FEET			
OHWO009 OHWO09TE	TOWN CENTER PARTNERS, LLC	0.804	0.012	502	-	0.792	0.028	-	Construction	18-33-330-001
OHWO010TE	STATE BANK OF COUNTRYSIDE AS TRUSTEE UNDER TRUST AGREEMENT DATED JANUARY 31, 1994 KNOWN AS TRUST NO 94-1394	0.367	-	-	-	-	0.013	-	Construction	18-33-308-009
OHWO011TE	JOHN E. NELSON AND JERALYN K. NELSON IN JOINT TENANCY	0.329	-	-	-	-	0.007	281	construction	18-33-308-010
OHWO012TE	JOSEPH P. LOBIANCO, TRUSTEE UNDER TRUST NUMBER 052097 DATED MAY 20, 1997	0.505	-	-	-	-	0.033	-	Construction	18-33-309-023 18-33-309-024 18-33-309-025 18-33-309-026
OHWO013TE	CLIFFSIDE TOWNHOMES OWNERS'S ASSOCIATION	0.194	-	-	-	-	0.005	210	Construction	18-33-319-053
OHWO014TE	JOHN G. THEDOS, JR. AND DEBORAH M. THEDOS, AS HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY	0.503	-	-	-	-	0.117	-	Construction	18-33-319-031

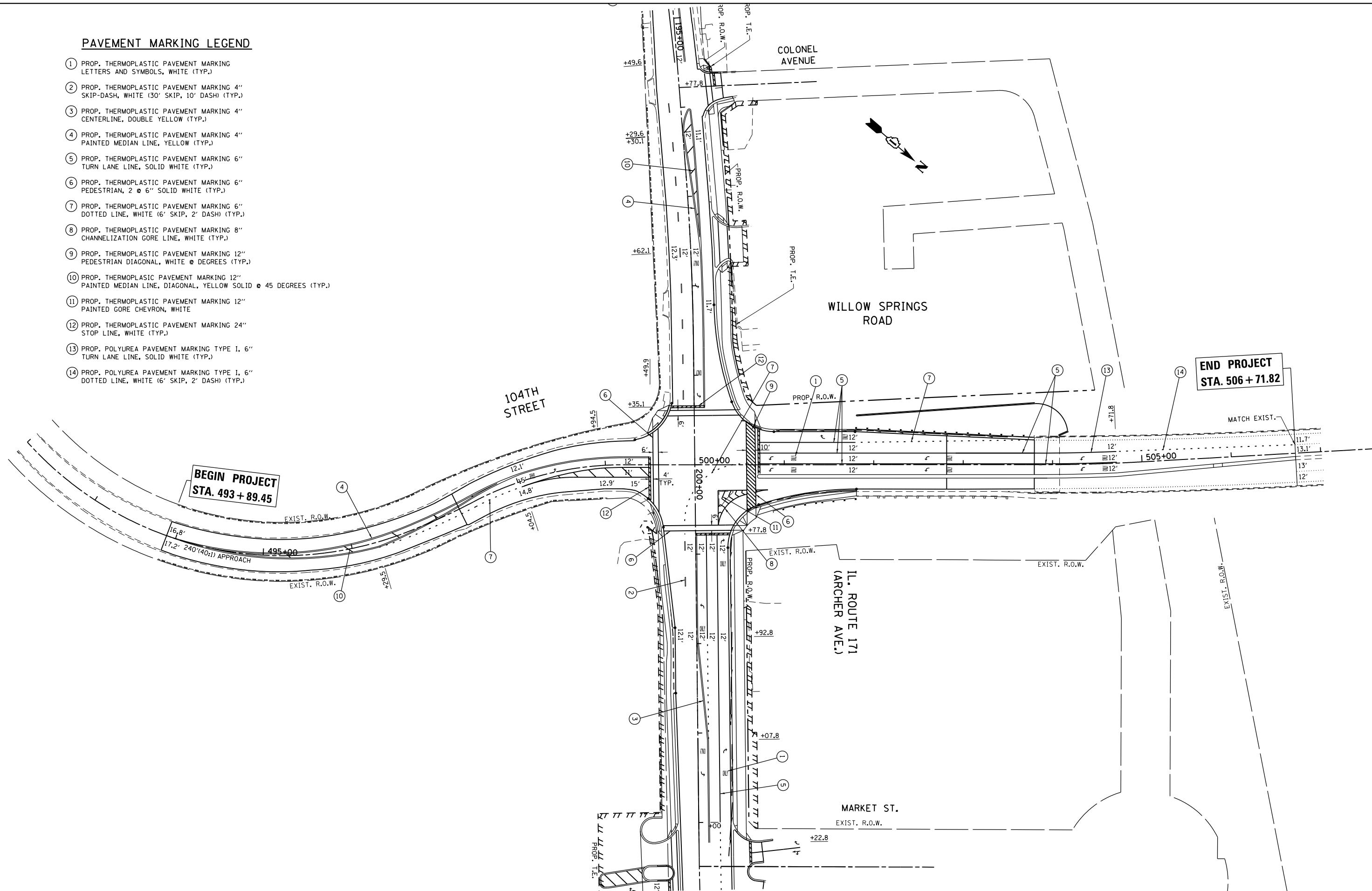
ENGINEERING ENTERPRISES, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
52 WHEELER ROAD  
SUGAR GROVE, ILLINOIS 60554  
PH. (630)466-6700 / www.eeiweb.com

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL ROUTE 171 (ARCHER AVE.)  
LIMITS: COLONEL AVE. COUNTY: COOK  
TO RUST ST. JOB NO.: R-90-001-12  
PROJECT: Archer Ave TO STATION 205+12.58  
STATION 205+12.58 TO STATION 210+23.77  
SCALE: 1"=30' SHEET 5 OF 5

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

**PAVEMENT MARKING LEGEND**

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING 4" SKIP-DASH, WHITE (30' SKIP, 10' DASH) (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING 4" CENTERLINE, DOUBLE YELLOW (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING 4" PAINTED MEDIAN LINE, YELLOW (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6" TURN LANE LINE, SOLID WHITE (TYP.)
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 6" PEDESTRIAN, 2 @ 6" SOLID WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 6" DOTTED LINE, WHITE (6' SKIP, 2' DASH) (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" CHANNELIZATION GORE LINE, WHITE (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PEDESTRIAN DIAGONAL, WHITE @ DEGREES (TYP.)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PAINTED MEDIAN LINE, DIAGONAL, YELLOW SOLID @ 45 DEGREES (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PAINTED GORE CHEVRON, WHITE
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING 24" STOP LINE, WHITE (TYP.)
- ⑬ PROP. POLYUREA PAVEMENT MARKING TYPE I, 6" TURN LANE LINE, SOLID WHITE (TYP.)
- ⑭ PROP. POLYUREA PAVEMENT MARKING TYPE I, 6" DOTTED LINE, WHITE (6' SKIP, 2' DASH) (TYP.)



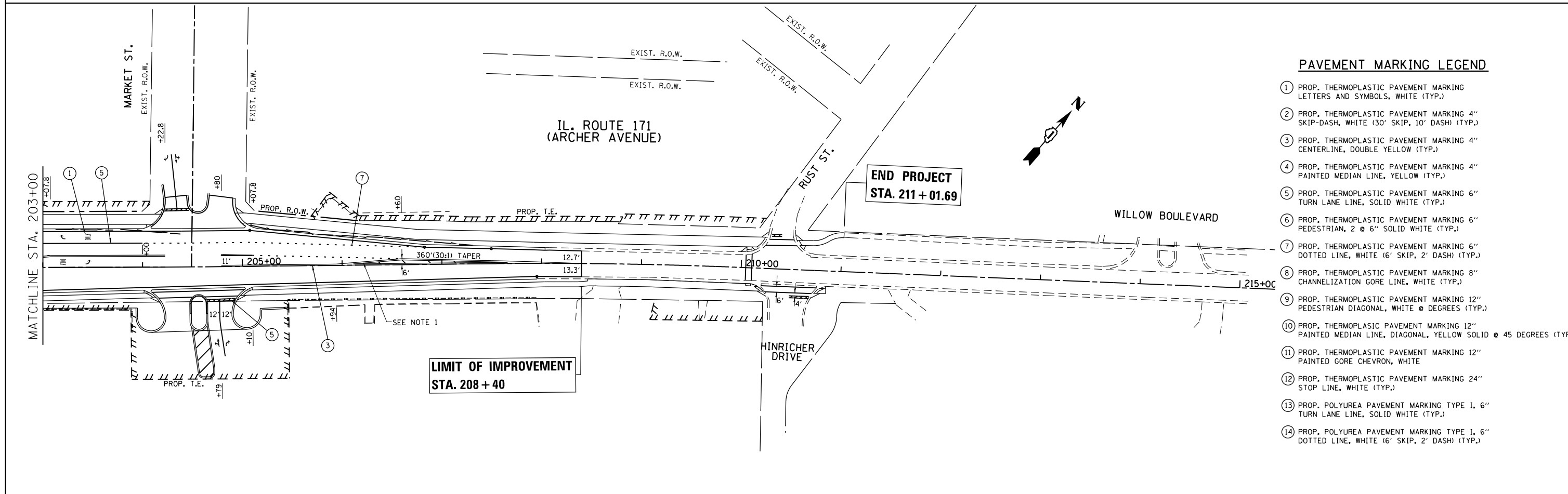
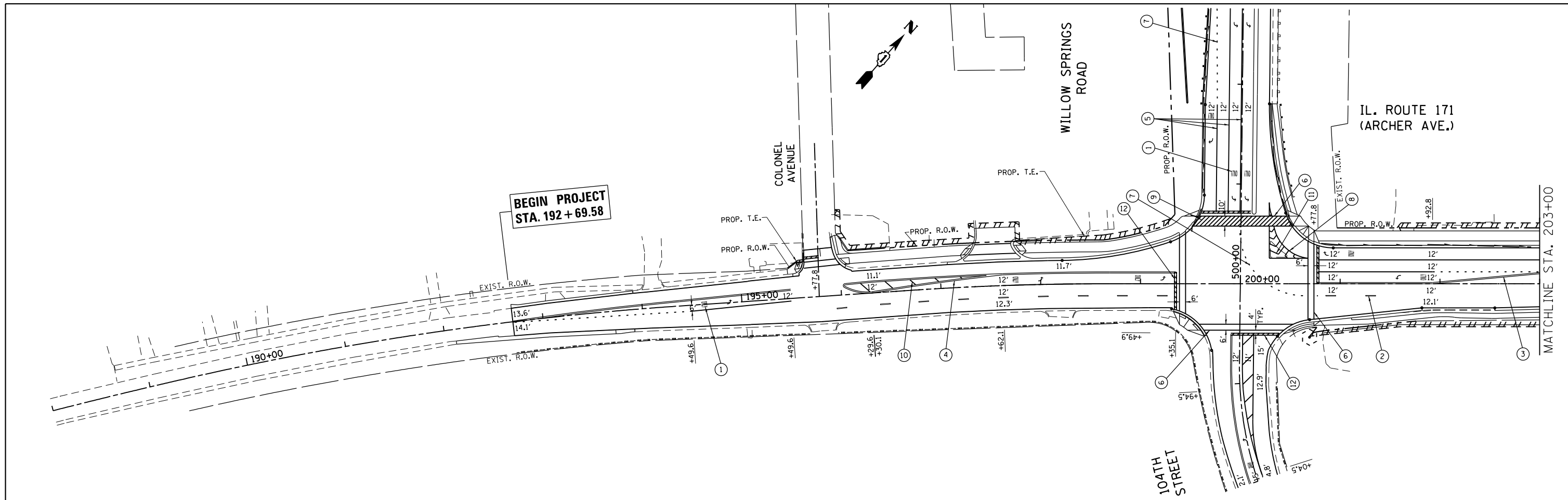
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	PLOT DATE = 12/13/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

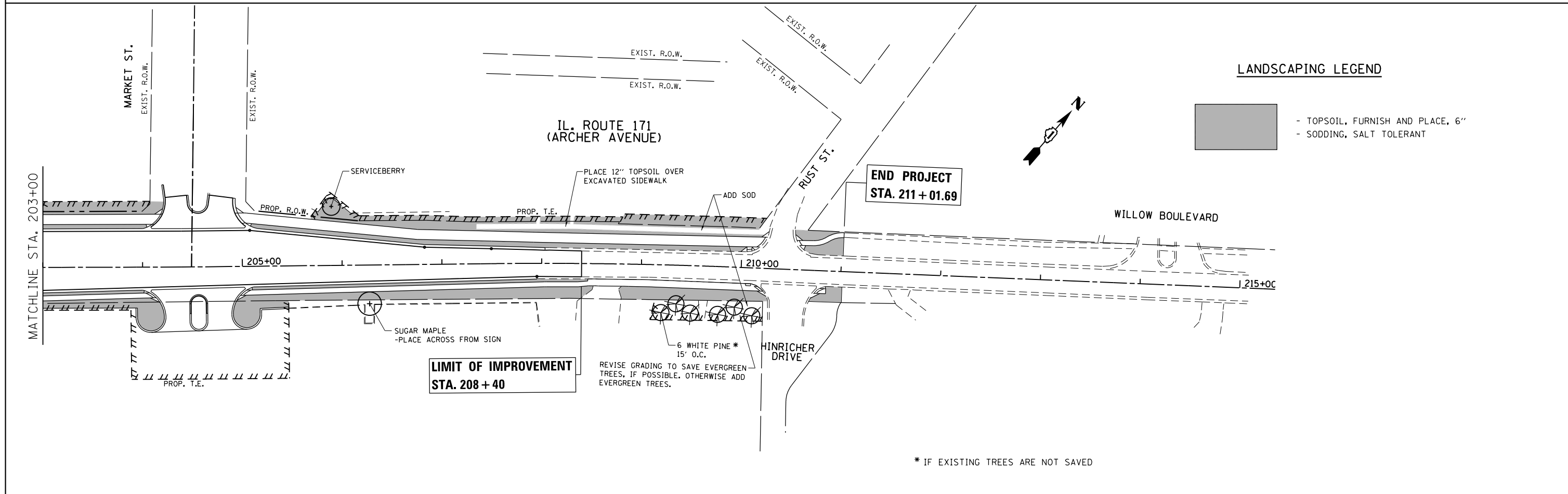
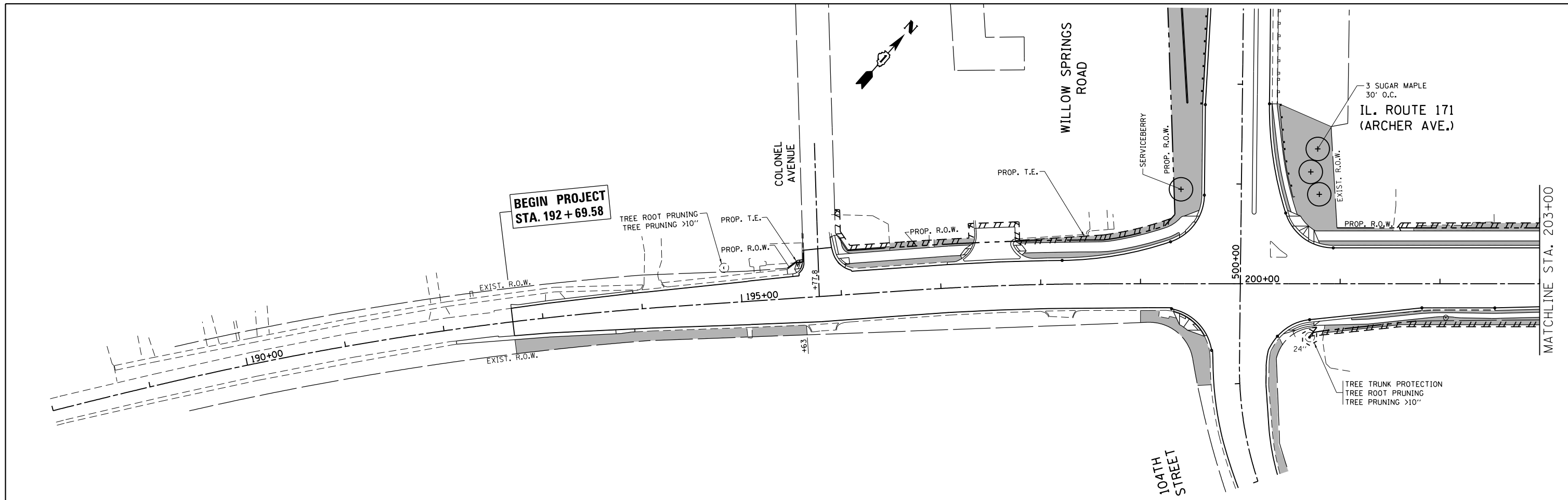
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	59
<b>CONTRACT NO. 60T24</b>				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING 4" SKIP-DASH, WHITE (30' SKIP, 10' DASH) (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING 4" CENTERLINE, DOUBLE YELLOW (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING 4" PAINTED MEDIAN LINE, YELLOW (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6" TURN LANE LINE, SOLID WHITE (TYP.)
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 6" PEDESTRIAN, 2 @ 6" SOLID WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 6" DOTTED LINE, WHITE (6' SKIP, 2' DASH) (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" CHANNELIZATION GORE LINE, WHITE (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PEDESTRIAN DIAGONAL, WHITE @ DEGREES (TYP.)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PAINTED MEDIAN LINE, DIAGONAL, YELLOW SOLID @ 45 DEGREES (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING 12" PAINTED GORE CHEVRON, WHITE
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING 24" STOP LINE, WHITE (TYP.)
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- ⑭ PROP. POLYUREA PAVEMENT MARKING TYPE I, 6" DOTTED LINE, WHITE (6' SKIP, 2' DASH) (TYP.)

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	et:\pw\work\p\midot\paraynoal\0160775\PI12709-sh1-pmk.dgn	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	3565	B-N-5	COOK	129	60
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	PLOT DATE = 12/13/2013	DATE -	REVISED -													
												CONTRACT NO. 60T24		ILLINOIS FED. AID PROJECT		

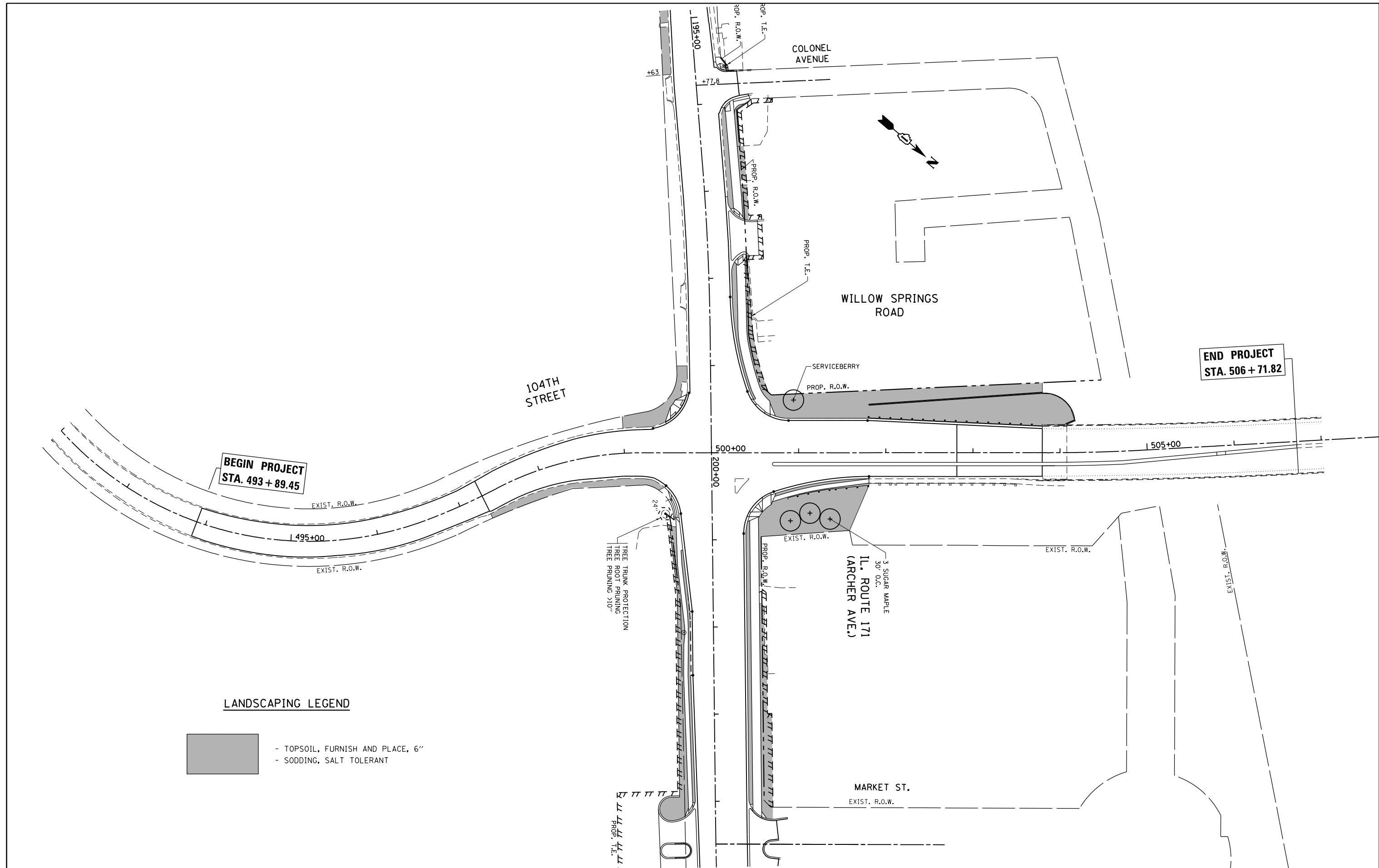


**LANDSCAPING LEGEND**

	- TOPSOIL, FURNISH AND PLACE, 6"
	- SODDING, SALT TOLERANT

\* IF EXISTING TREES ARE NOT SAVED

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	12/13/2013	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	3565	B-N-5	COOK	129	61
		CHECKED -	REVISED -					<b>CONTRACT NO. 60T24</b>								
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT								



**BEGIN PROJECT**  
STA. 493 + 89.45

**END PROJECT**  
STA. 506 + 71.82

**LANDSCAPING LEGEND**

- TOPSOIL, FURNISH AND PLACE, 6"
- SODDING, SALT TOLERANT

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

**LANDSCAPING PLAN**  
**IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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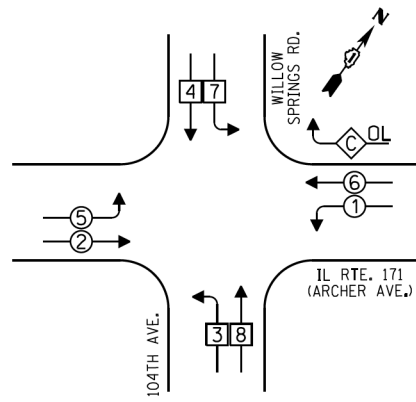
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	62
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				





**CONTROLLER SEQUENCE**

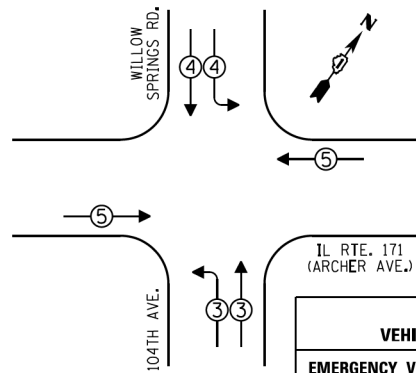


- LEGEND**
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

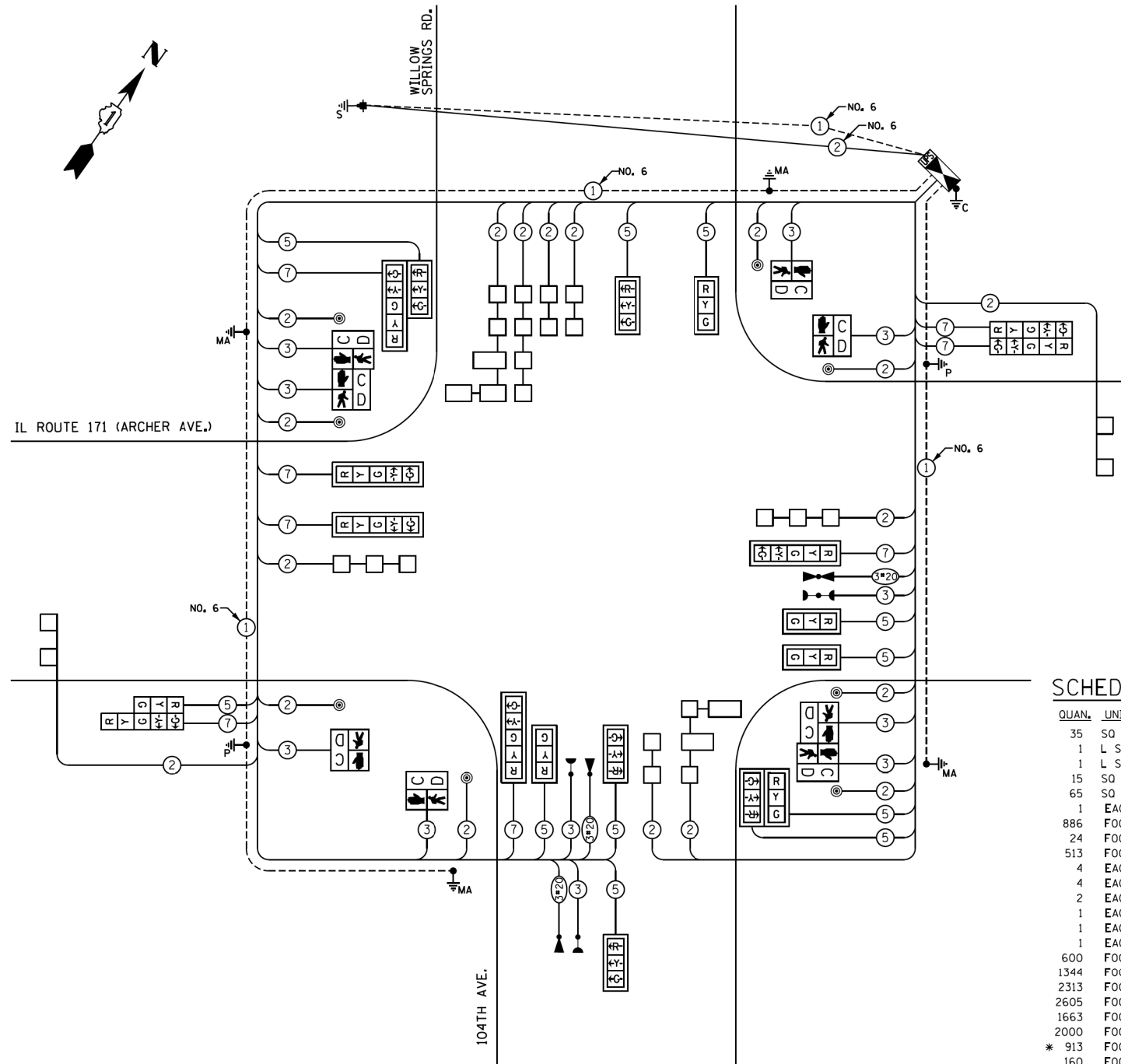
**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↑↑	↓↓	↔



**CABLE PLAN**

**SCHEDULE OF QUANTITIES**

QUAN.	UNIT	ITEM
35	SO FT	PORTLAND CEMENT CONCRETE SIDEWALK 5"
1	L SUM	MOBILIZATION
1	L SUM	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
15	SO FT	SIGN PANEL - TYPE 1
65	SO FT	SIGN PANEL - TYPE 2
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
886	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
24	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
513	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
600	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1344	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
2313	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2605	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1663	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2000	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
* 913	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
160	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 54 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 34 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
26	FOOT	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER
42	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
10	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
15	EACH	TRAFFIC SIGNAL BACKPLATE
10	EACH	INDUCTIVE LOOP DETECTOR
1036	FOOT	DETECTOR LOOP, TYPE I
* 3	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
7	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING DOUBLE HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

\* INDICATES 100% MUNICIPALITY COST

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED % OPERATIONS	WATTAGE	
SIGNAL (RED)	19		17	0.50	161.50
(YELLOW)	19		25	0.25	118.75
(GREEN)	19		15	0.25	71.25
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	670.70

VILLAGE OF WILLOW SPRINGS  
ONE VILLAGE CIRCLE  
WILLOW SPRINGS, ILLINOIS 60480

ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN  
PHONE: (708) 235-2692  
COMPANY: COMED

FILE NAME =	USER NAME = bauerd1	DESIGNED -	REVISED -
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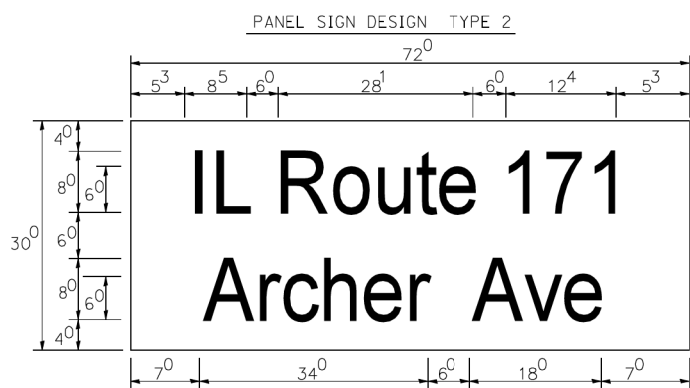
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

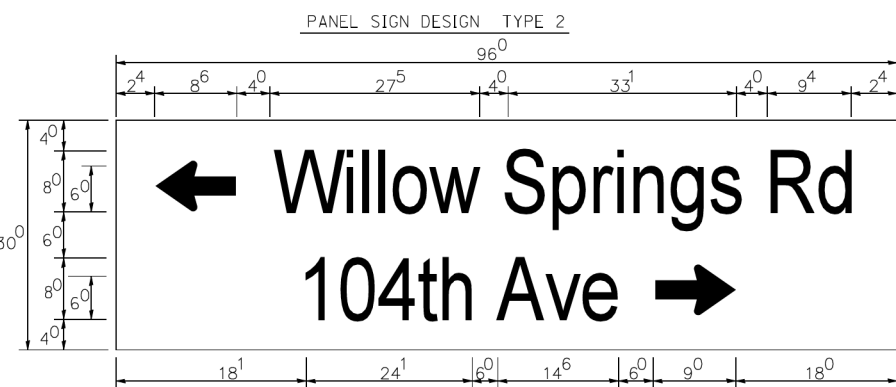
**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL. RTE. 171 (ARCHER AVE.) AT 104th AVE./WILLOW SPRINGS RD.**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	64
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

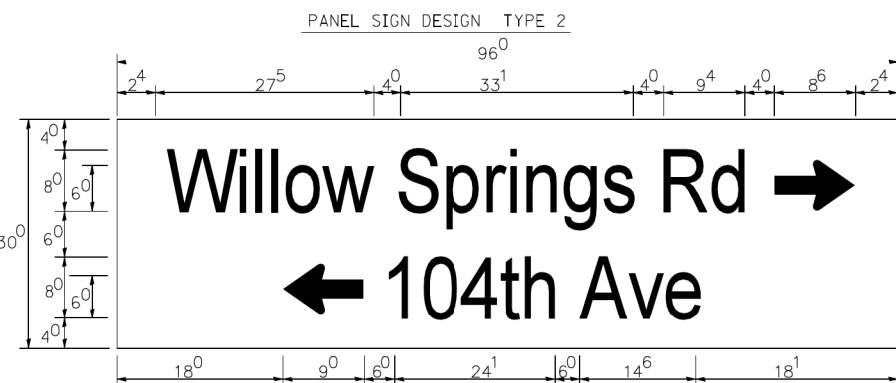


Sq. M. each  
15.0 Sq. Ft. each  
2 Required  
Design Series D



6'0" (TYP.)

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

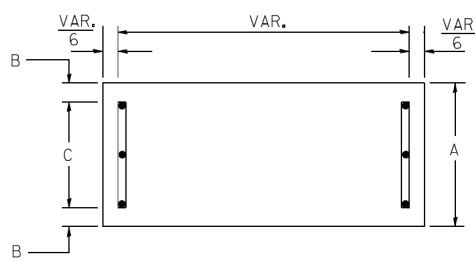


GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN, THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:  
\* J.O. HERBERT CO. MIDLOTHIAN, VA. \* WESTERN REMAC INC. WOODRIDGE, IL.

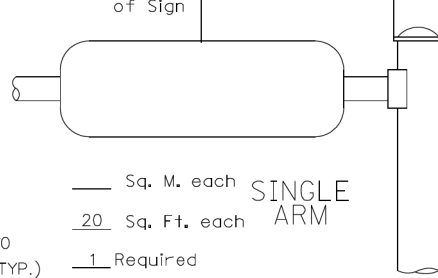
PARTS LISTING:  
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER  
BRACKETS PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING  
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

SUPPORTING CHANNELS



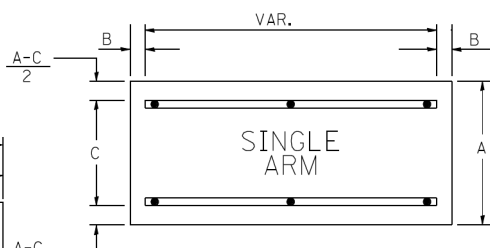
A	B	C
18"	2"	14"

Mid-Point of Sign VAR. TO 8 FT.(MAX.)



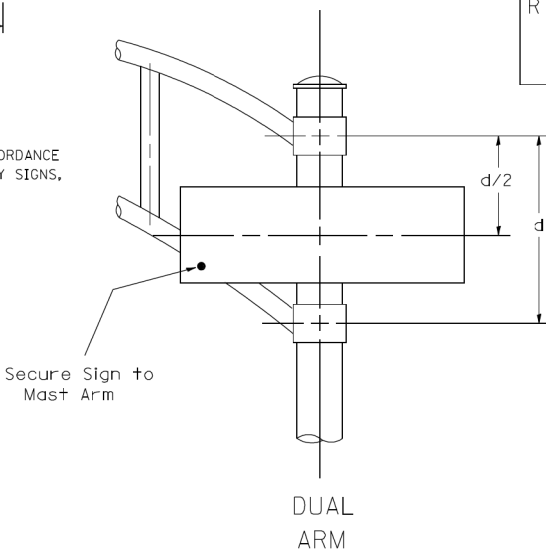
Sq. M. each  
20 Sq. Ft. each  
1 Required  
Design Series C

SUPPORTING CHANNELS



Sq. M. each  
20 Sq. Ft. each  
1 Required  
Design Series C

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



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case  
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2<sup>3</sup> DENOTES 3/8

SERIES	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

Lower Case To Lower Case  
Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgij	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

Number To Number  
Spacing Chart 8 Inch Series "C & D"

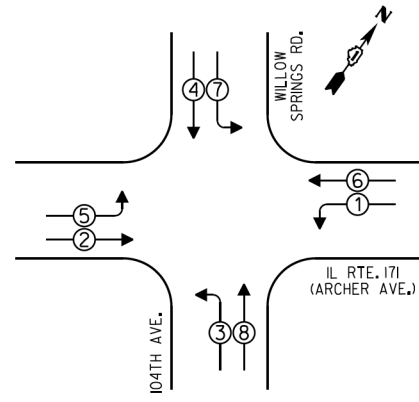
SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			C	D
	C	D	C	D	C	D	C	D			
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>				
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>				
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>				
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>				
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>				
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>				
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>				
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>				
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>				
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>				
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>				
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>				
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>				
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>				
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>				
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>				
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>				
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>				
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>				
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>	3 <sup>2</sup>				
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>	4 <sup>2</sup>				
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>	4 <sup>7</sup>				
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>	6 <sup>4</sup>				
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>	5 <sup>1</sup>				
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>	5 <sup>3</sup>				
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>	4 <sup>3</sup>				

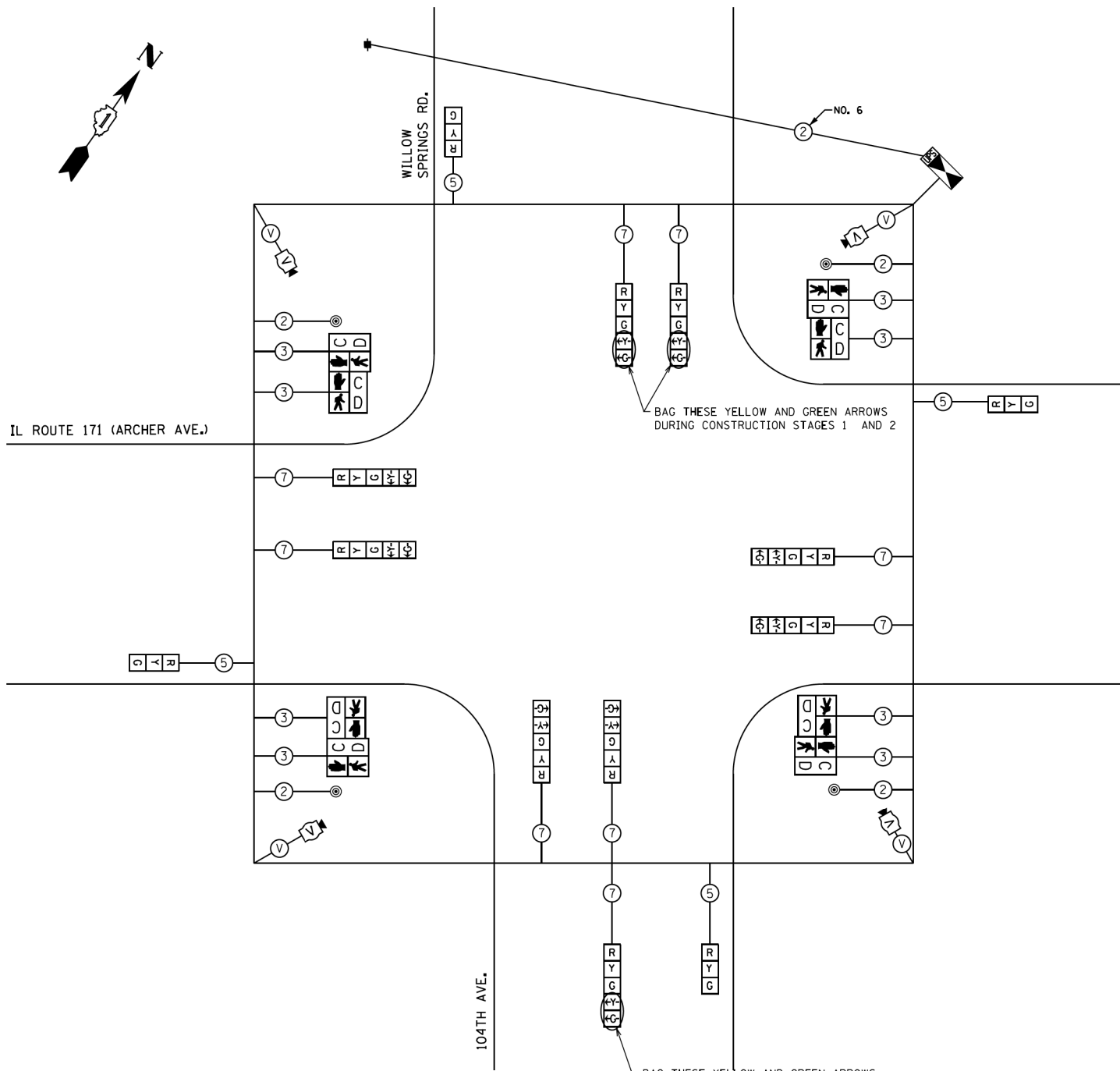
NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup> </		

CONTROLLER SEQUENCE



- LEGEND**
- ☐ SINGLE ENTRY PHASE
  - ⊕ DUAL ENTRY PHASE
  - ⊖ OVERLAP
  - ⊙ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	WATTAGE LED X % OPERATIONS		
SIGNAL (RED)	13		17 0.50	110.50	
(YELLOW)	13		25 0.25	81.25	
(GREEN)	13		15 0.25	48.75	
ARROW	18		12 0.10	21.60	
PED. SIGNAL	8		25 1.00	200.00	
CONTROLLER	1		100 1.00	100.00	
ILLUM. SIGN			25 0.05		
LUMINAIRE		250	0.50		
VIDEO SYSTEM	1	150	1.00	150.00	
FLASHER			0.50		
ENERGY COSTS TO:				TOTAL =	712.10

VILLAGE OF WILLOW SPRINGS  
ONE VILLAGE CIRCLE  
WILLOW SPRINGS, ILLINOIS 60480

ENERGY SUPPLY - CONTACT: ILYAS MOHIUDDIN  
PHONE: (708) 235-2692  
COMPANY: COMED

FILE NAME = USER NAME = bauerdl  
ca:\p\work\p\dot\bauerdl\d0160775\p142709-sh-t-ts.dgn  
PLOT SCALE = 20.0000' / 1" / in.  
Default PLOT DATE = 12/4/2013

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM  
IL. RTE. 171 (ARCHER AVE.) AT 104th AVE./WILLOW SPRINGS RD.

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	66
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

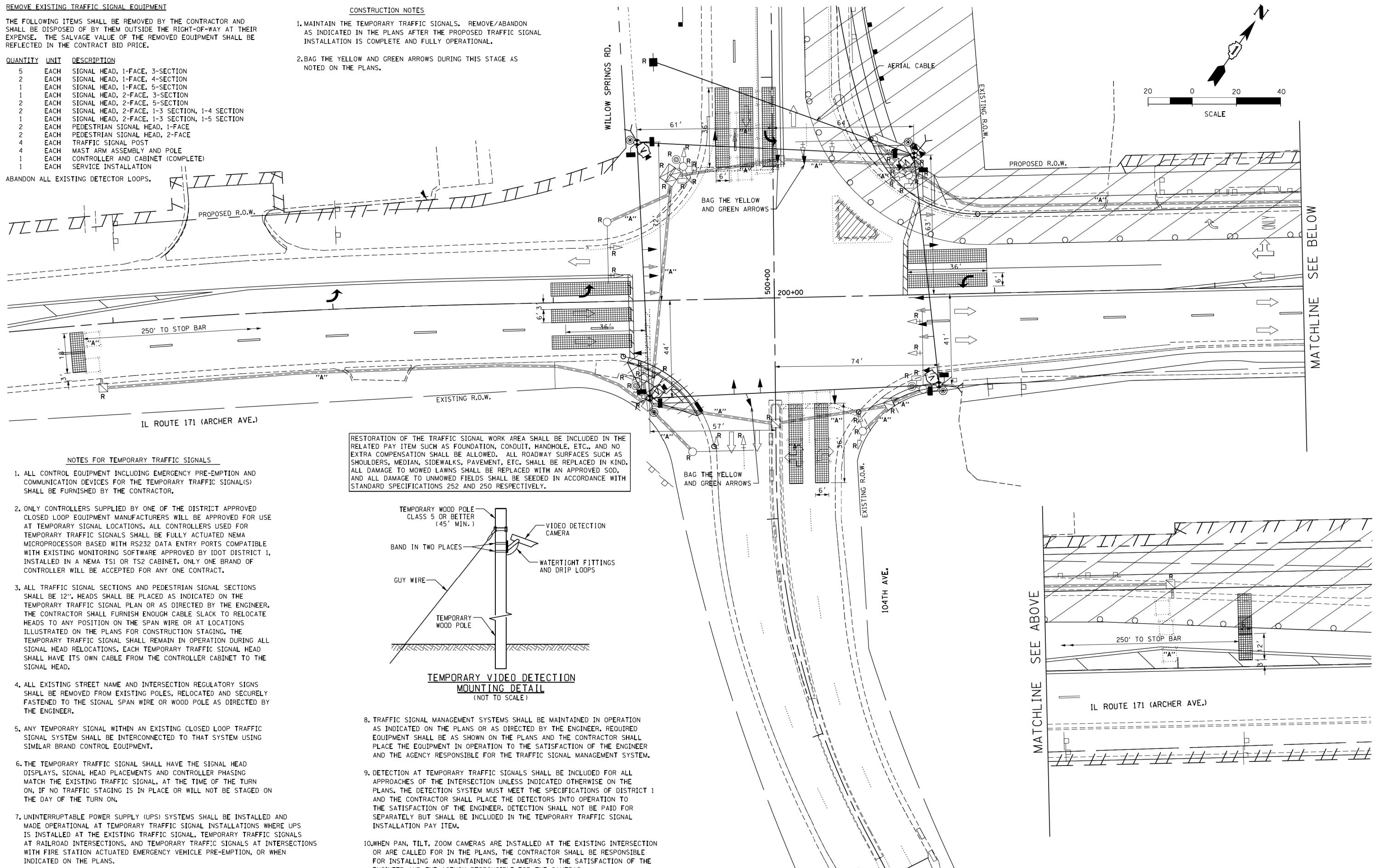
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
5	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-4 SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	TRAFFIC SIGNAL POST
4	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	SERVICE INSTALLATION

ABANDON ALL EXISTING DETECTOR LOOPS.

**CONSTRUCTION NOTES**

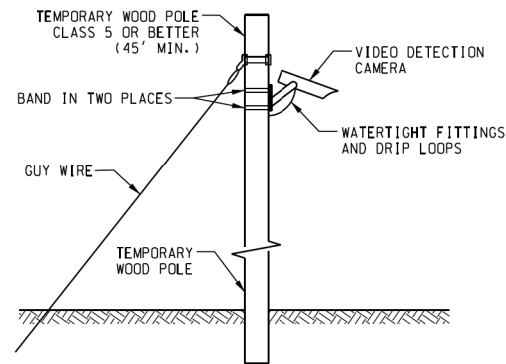
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2. BAG THE YELLOW AND GREEN ARROWS DURING THIS STAGE AS NOTED ON THE PLANS.



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)

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FILE NAME =	USER NAME = bauerdl	DESIGNED -	REVISED -
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	PLOT DATE = 12/4/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

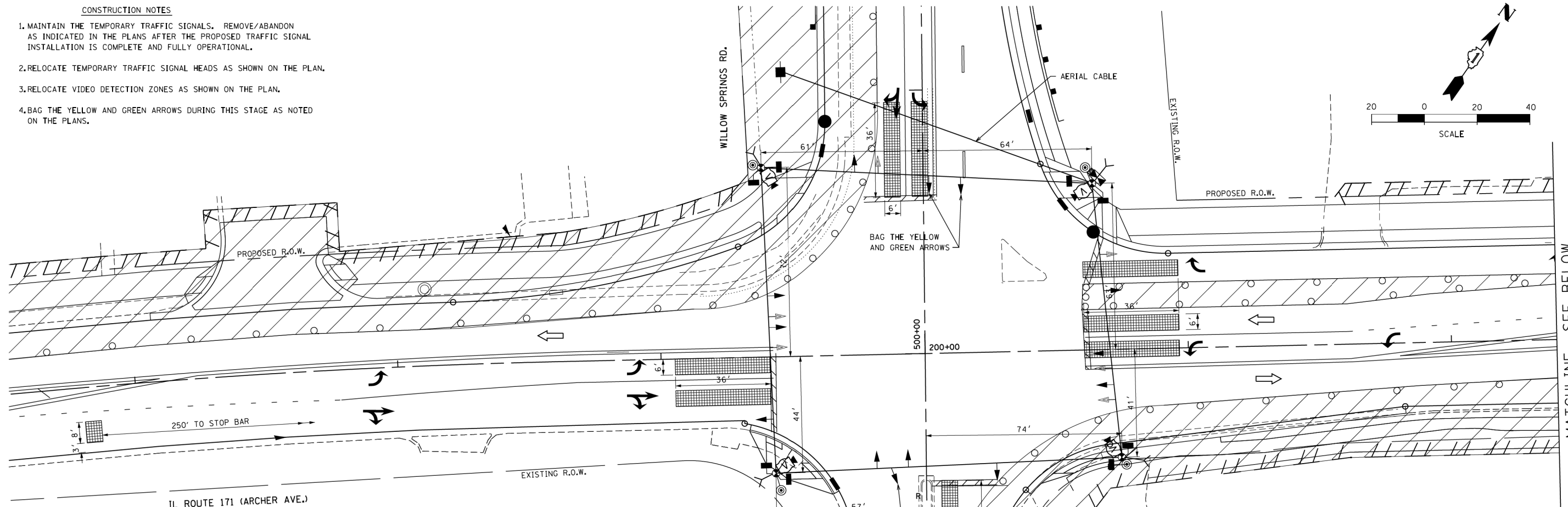
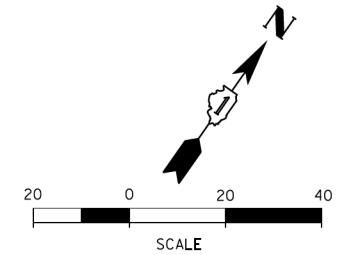
**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLANS,  
STAGE 1  
IL. RTE. 171 (ARCHER AVE.) AT 104th AVE./WILLOW SPRINGS RD.**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	67
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

**CONSTRUCTION NOTES**

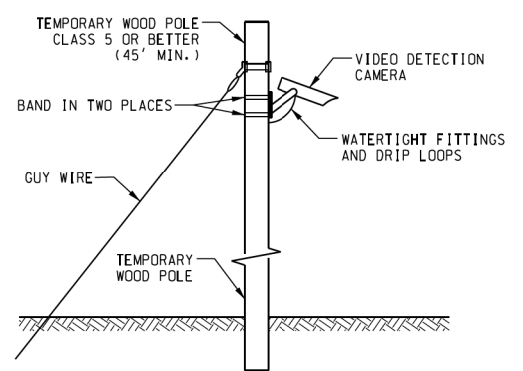
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2. RELOCATE TEMPORARY TRAFFIC SIGNAL HEADS AS SHOWN ON THE PLAN.
3. RELOCATE VIDEO DETECTION ZONES AS SHOWN ON THE PLAN.
4. BAG THE YELLOW AND GREEN ARROWS DURING THIS STAGE AS NOTED ON THE PLANS.



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

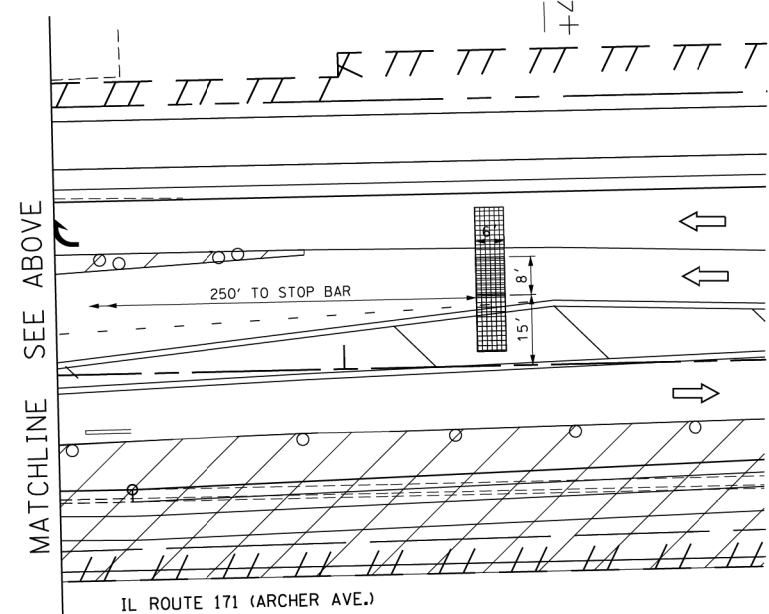
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**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)

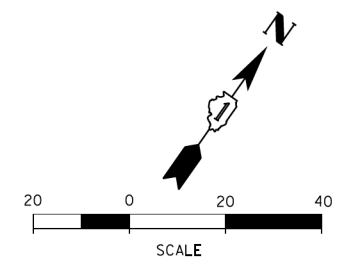
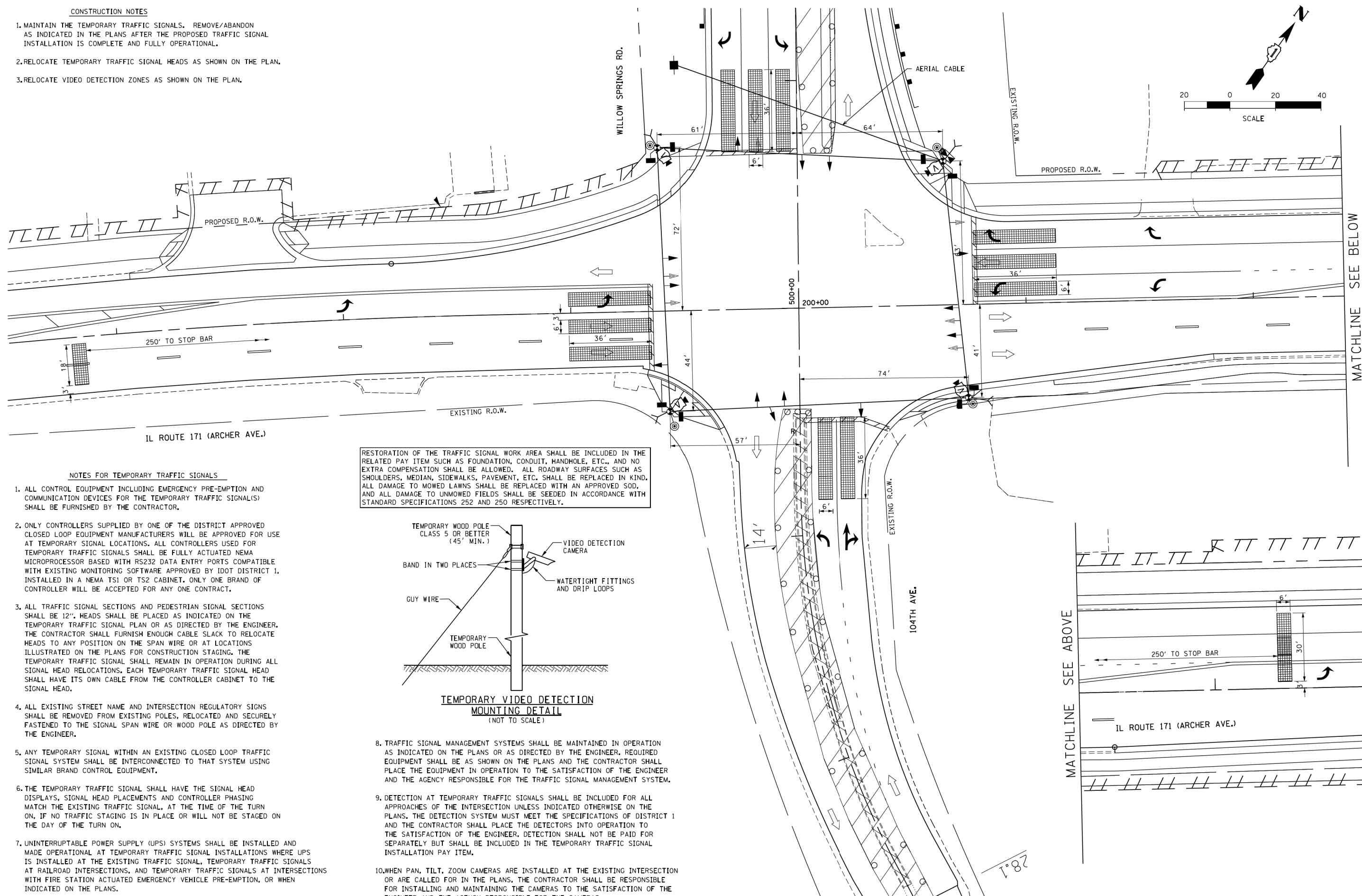
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FILE NAME =	USER NAME = bauerdl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLANS, STAGE 2 IL. RTE. 171 (ARCHER AVE.) AT 104th AVE./WILLOW SPRINGS RD.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\dtdot\bauerdl\d0160775\p142709-sh-t-ts.dgn	PLOT SCALE = 20.0000' / 1" =	DRAWN -	REVISED -					3565	B-N-5	COOK	129	68
Default	PLOT DATE = 12/4/2013	CHECKED -	REVISED -					CONTRACT NO. 60T24				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

**CONSTRUCTION NOTES**

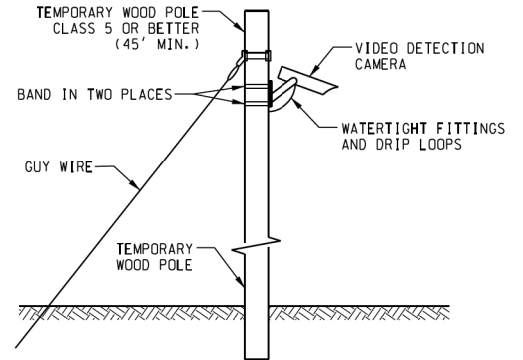
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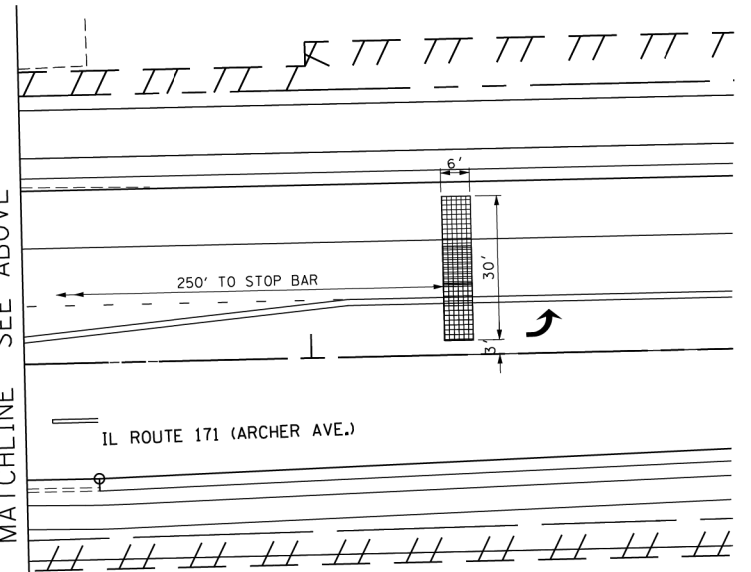
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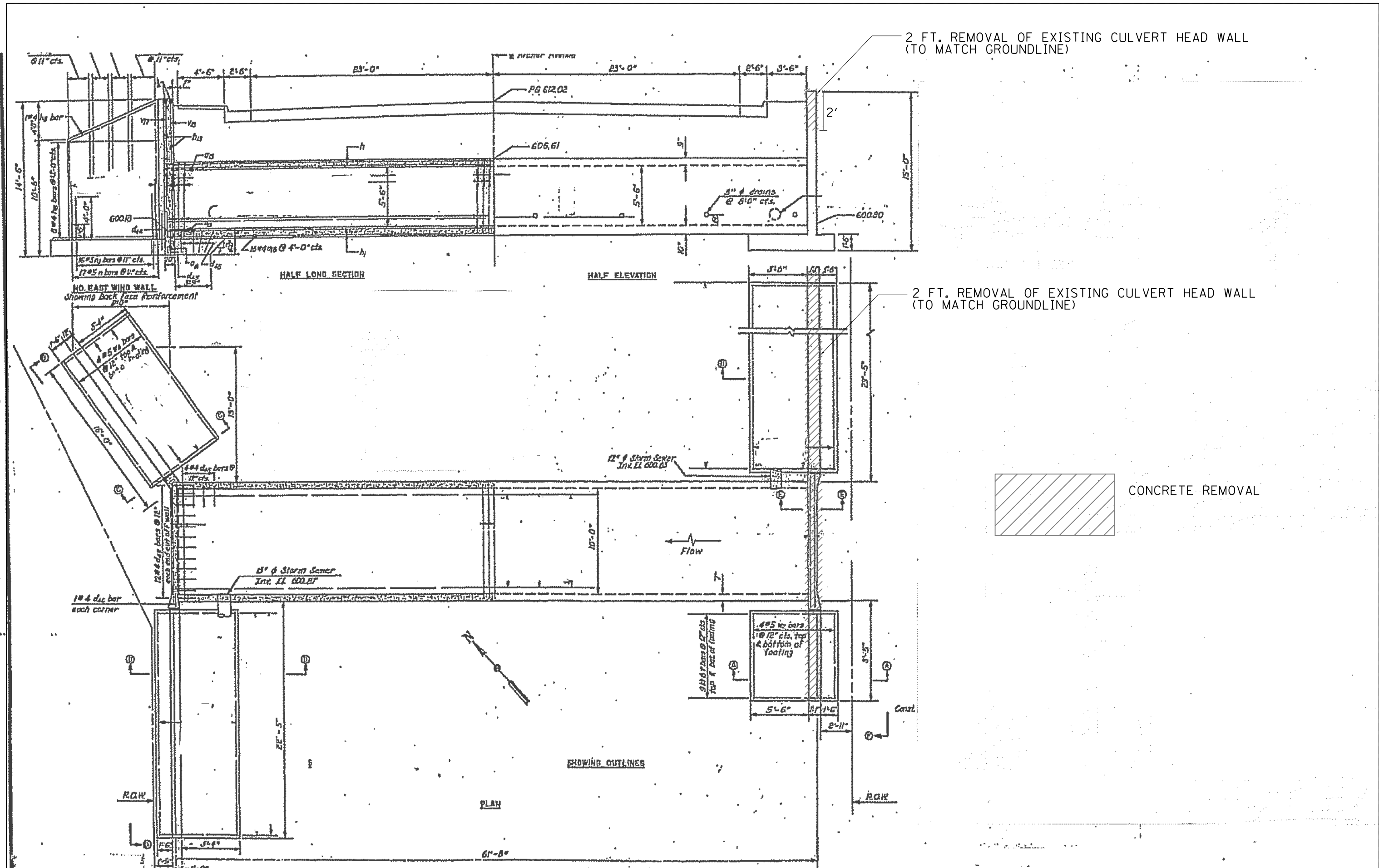
**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
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MATCHLINE SEE ABOVE



FILE NAME =	USER NAME = bauerdl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLANS, STAGE 3 IL. RTE. 171 (ARCHER AVE.) AT 104th AVE./WILLOW SPRINGS RD.</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\d\dot\bauerdl\d0160775\p142709-sh-t-ts.dgn		DRAWN -	REVISED -					3565	B-N-5	COOK	129	69
Default	PLOT SCALE = 20.0000' / 1" =	CHECKED -	REVISED -					CONTRACT NO. 60T24				
	PLOT DATE = 12/4/2013	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



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 DATE -  
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 PLOT DATE = 3/12/2014

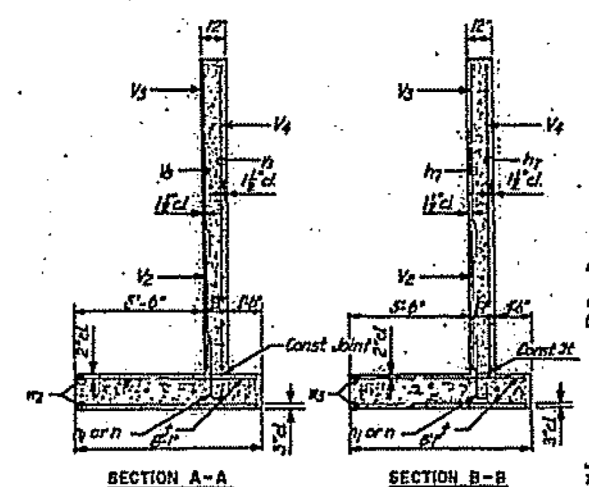
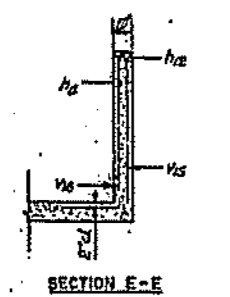
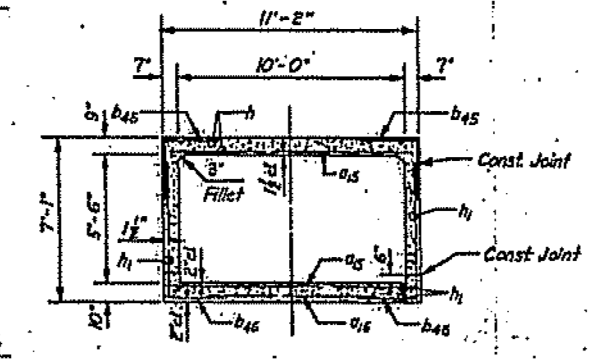
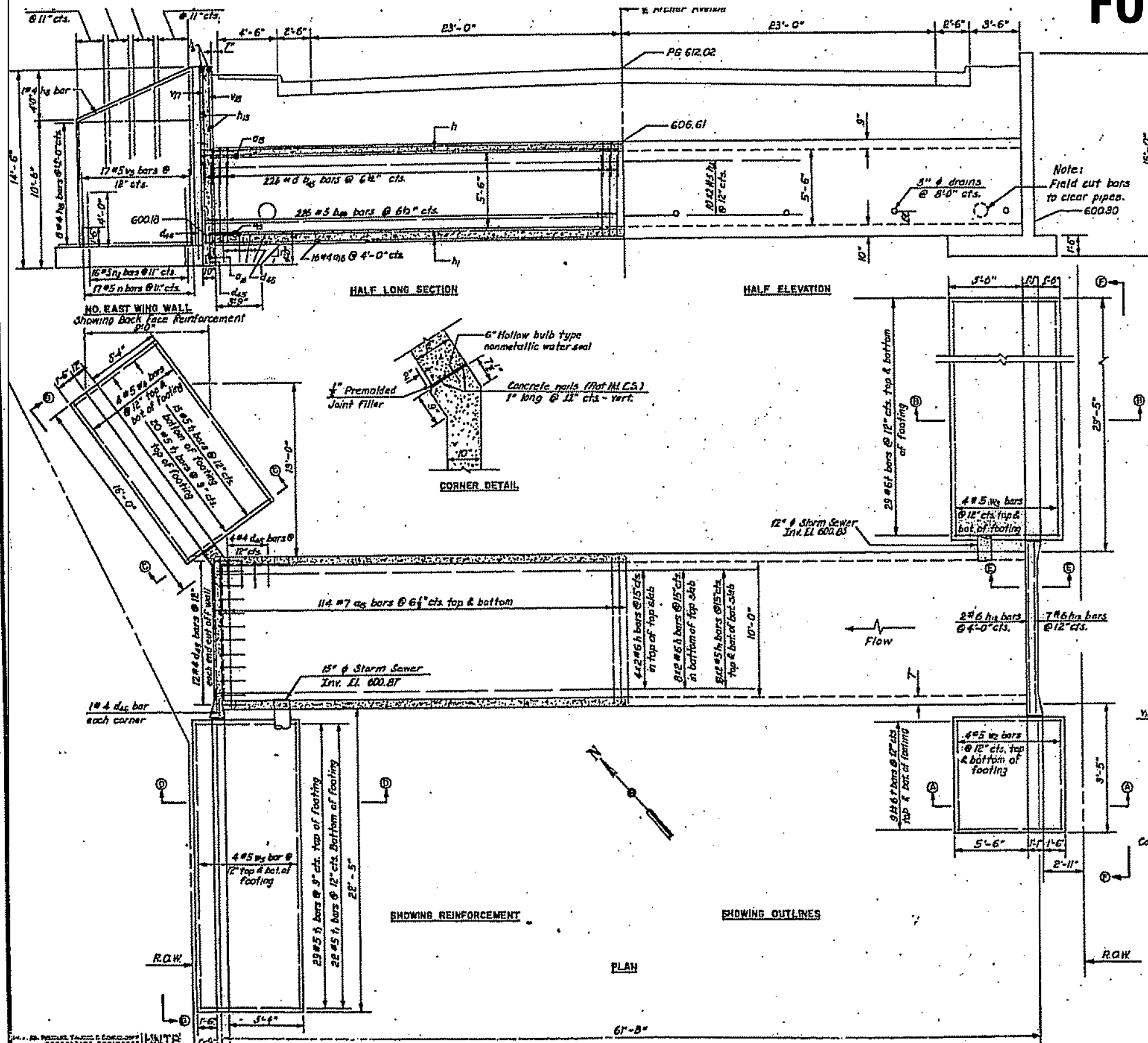
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL OF EXISTING CULVERT  
 SCALE: SHEET OF SHEETS STA. TO STA.

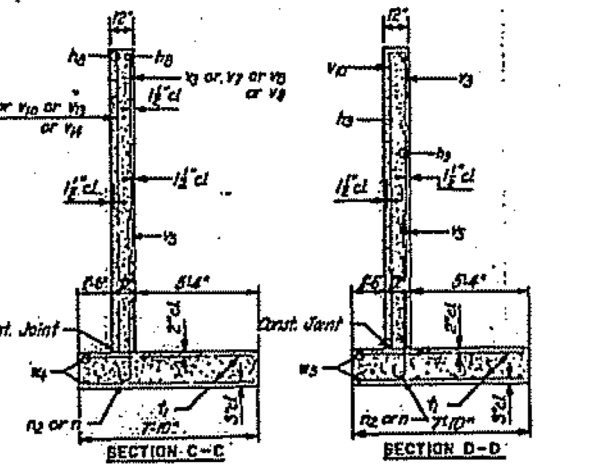
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	70
CONTRACT NO. 60T24				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY



**Notes:**

- Class X Concrete shall be used throughout.
- All bars shall be lapped a minimum of 24 bar diameters at splices, unless otherwise noted.
- All exposed edges shall be beveled 45°.
- A minimum of six feet of barrel shall be poured monolithically with wingwalls.
- The cost of excavation for the concrete box culvert shall be incidental to the price bid for Class X Concrete.
- The top of the culvert, the backs of the side walls above the lower construction joint and the back of wings shall be waterproofed in accordance with Article 503.12 of the Standard Specifications.
- Nonmetallic water seal used in the wingwall joints shall extend from the top of the footing to within 6" of the top of the headwall.



F.A.S. ROUTE 119 (S.A. 18)			
CONCRETE BOX CULVERT			
STA. 14+85 ARCHER AVE.			
WILLOW SPRINGS ROAD OVER			
DES PLAINES RIVER			
CHICAGO SANITARY & SHIP CANAL,			
BLVD'S & MICHIGAN CANAL,			
AND ICG RIVER ROAD			
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
3565	B-N-5	COOK	129
CONTRACT NO. 60T24			SHEET NO. 71
ILLINOIS FED. AID PROJECT			

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PLOT DATE :	DATE :	REVISED :	
12/9/2013			

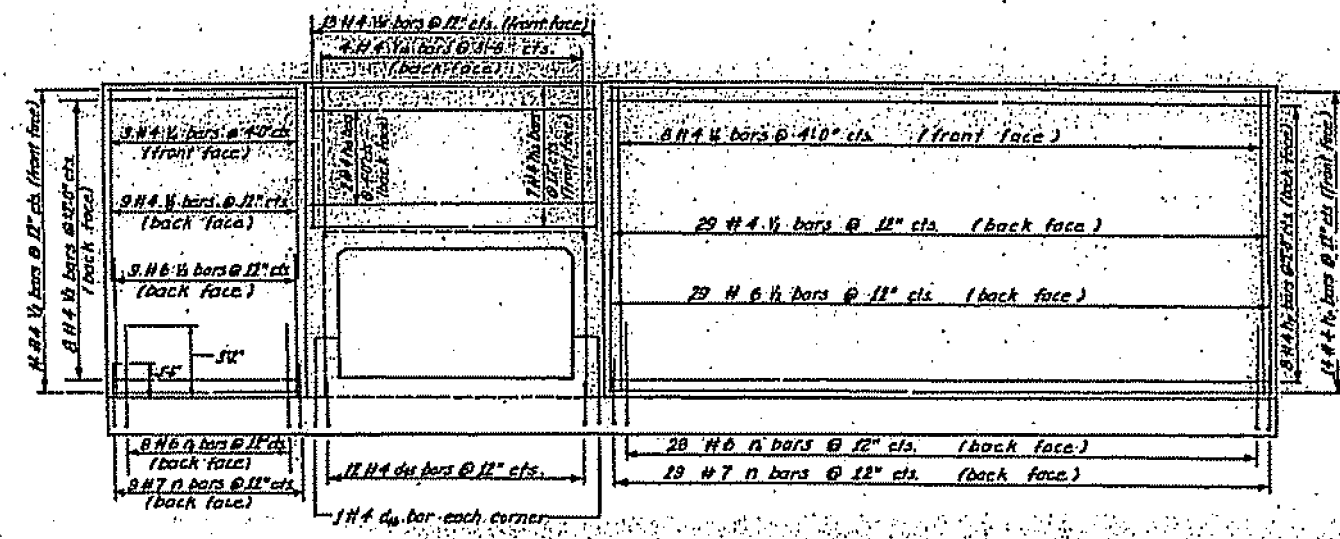
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

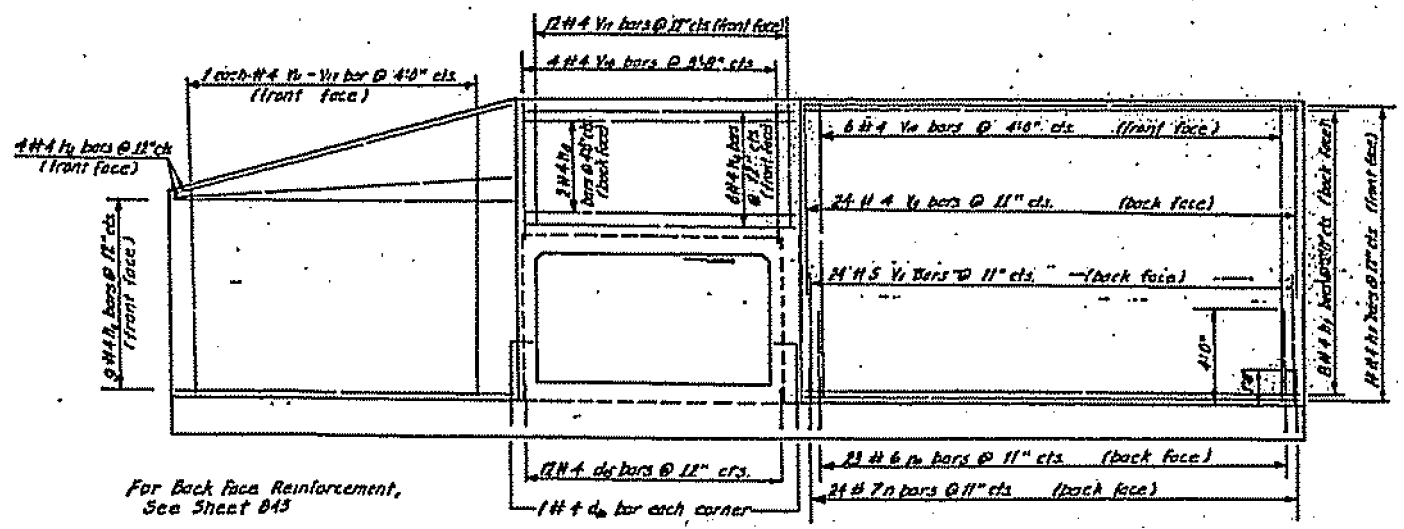


# FOR INFORMATION ONLY

PLAN NO.	111-50	CODE	96	73	SHEET NO. 844
NO. OF SHEETS	NO. 7	ALIGNED	NO. 10	PROJECT NO.	0148

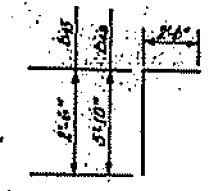


ELEVATION F-F

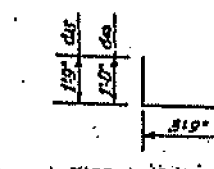


For Back face Reinforcement, See Sheet 843

ELEVATION G-G



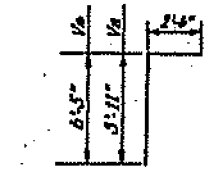
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BARS B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100



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BILL OF MATERIAL

CONCRETE BOX CULVERT			
BAR NO.	NO.	SIZE	LENGTH
25	226	7	10'-10"
26	18	4	7'-3"
45	225	5	5'-0"
46	226	5	8'-4"
45	20	4	5'-6"
46	4	4	4'-9"
7	24	6	31'-5"
7	36	5	31'-3"
7	18	4	28'-4"
7	17	4	14'-11"
7	18	4	21'-4"
7	9	4	12'-4"
7	8	4	11'-7"
7	79	4	11'-7"
7	36	7	3'-6"
7	39	6	5'-0"
7	76	6	7'-10"
7	86	5	7'-7"
7	38	6	6'-0"
7	34	4	8'-4"
7	11	4	13'-2"
7	41	5	5'-6"
7	4	4	7'-4"
7	4	4	6'-6"
7	6	4	5'-6"
7	7	4	12'-8"
7	1	4	13'-9"
7	1	4	11'-9"
7	1	4	10'-9"
7	13	4	6'-1"
7	4	4	8'-11"
7	12	4	5'-7"
7	4	4	8'-6"
W2	8	5	8'-4"
W3	8	5	28'-4"
W4	8	5	14'-7"
W5	8	5	21'-4"

QUANTITIES		
Reinforcement Bars	Lbs	8504
Class A Concrete	Cu Yds	131.44

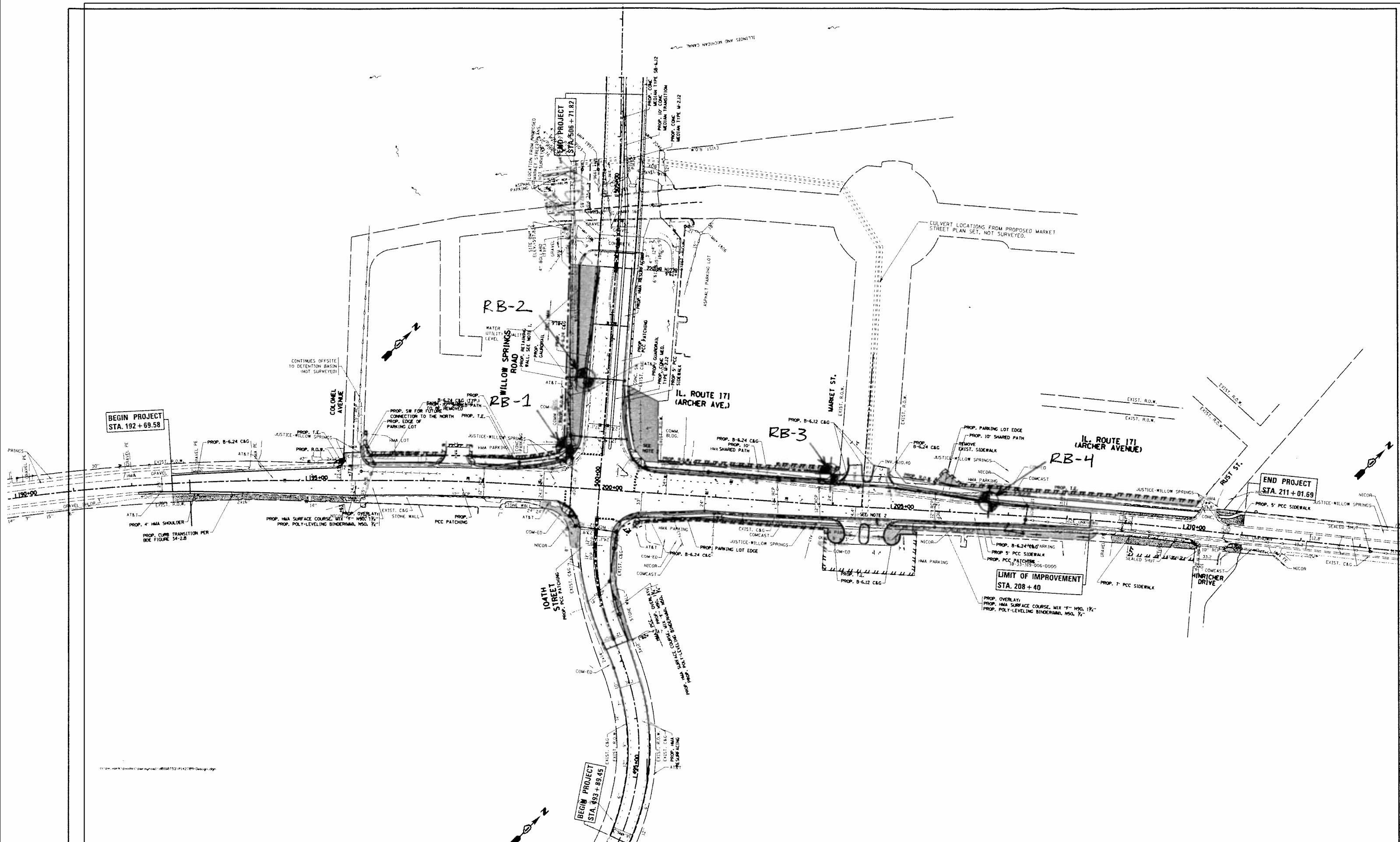
FA'S ROUTE 119 (S.A. 18)  
 CONCRETE BOX CULVERT  
 STA. 11+55 ARCHER AVE.

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	PLOT DATE = 12/9/2013	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	72
CONTRACT NO. 60T24			ILLINOIS FED. AID PROJECT	



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 PLOT DATE = 12/9/2013

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOCATION MAP**  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	73
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



### SOIL BORING LOG

Page 1 of 1

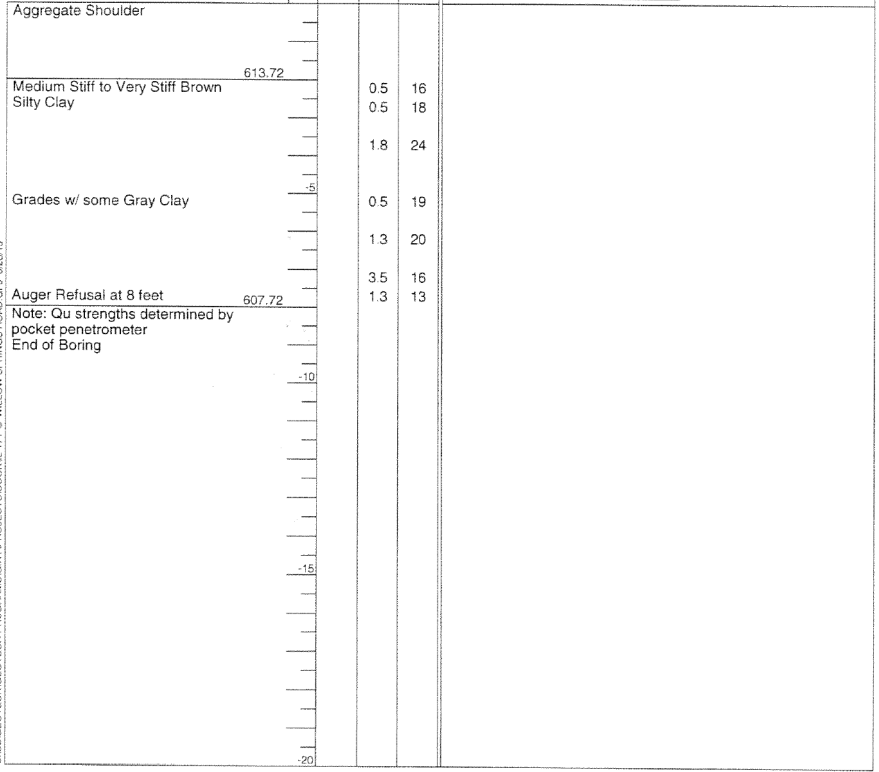
Date 6/18/13

ROUTE FAU 3565 DESCRIPTION Willow Springs Road LOGGED BY M. Esposito

SECTION B-N-5 LOCATION SE, SEC. 32, TWP. 38, RNG. 13, 3<sup>rd</sup> PM

COUNTY COOK DRILLING METHOD Mobile B-80, 3.25" HSA HAMMER TYPE

STRUCT. NO.		D	B	U	M	Surface Water Elev.	ft
Station		E	L	C	O	Stream Bed Elev.	ft
BORING NO.	RB-2	P	O	S	I	Groundwater Elev.:	
Station	501+70	T	W	H	S	First Encounter	Dry ft
Offset	30.00ft LT	H	S	Qu	T	Upon Completion	ft
Ground Surface Elev.	615.72					After	Hrs. ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)



### SOIL BORING LOG

Page 1 of 1

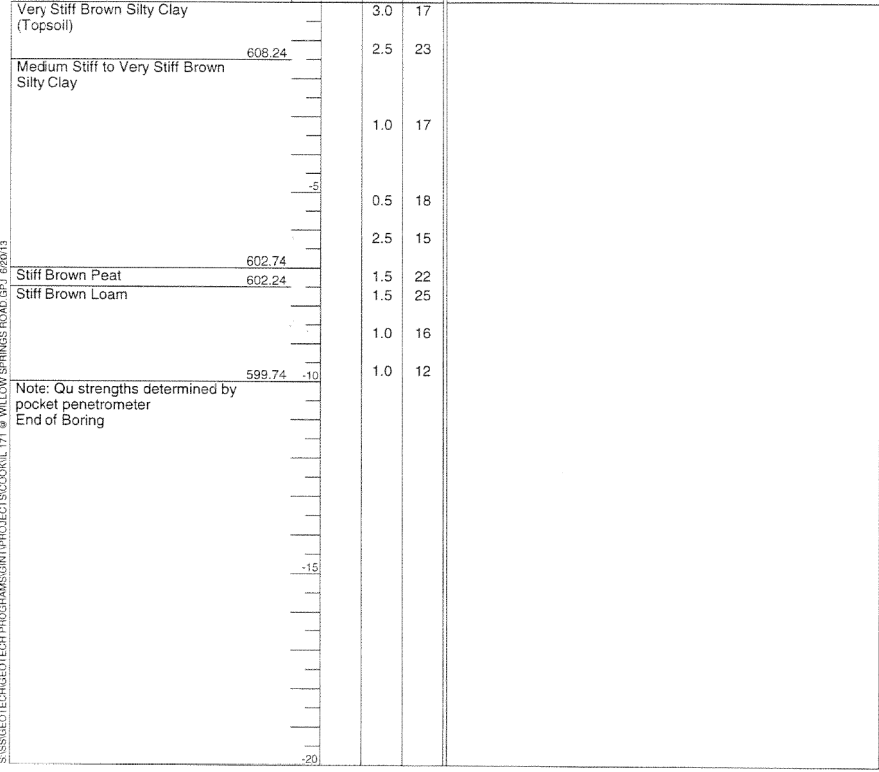
Date 6/18/13

ROUTE FAU 3565 DESCRIPTION Archer Avenue LOGGED BY M. Esposito

SECTION B-N-5 LOCATION SW, SEC. 33, TWP. 38, RNG. 13, 3<sup>rd</sup> PM

COUNTY COOK DRILLING METHOD Mobile B-80, 3.25" HSA HAMMER TYPE

STRUCT. NO.		D	B	U	M	Surface Water Elev.	ft
Station		E	L	C	O	Stream Bed Elev.	ft
BORING NO.	RB-3	P	W	H	S	Groundwater Elev.:	
Station	204+00	H	S	Qu	T	First Encounter	Dry ft
Offset	48.00ft LT					Upon Completion	ft
Ground Surface Elev.	609.74					After	Hrs. ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)



### SOIL BORING LOG

Page 1 of 1

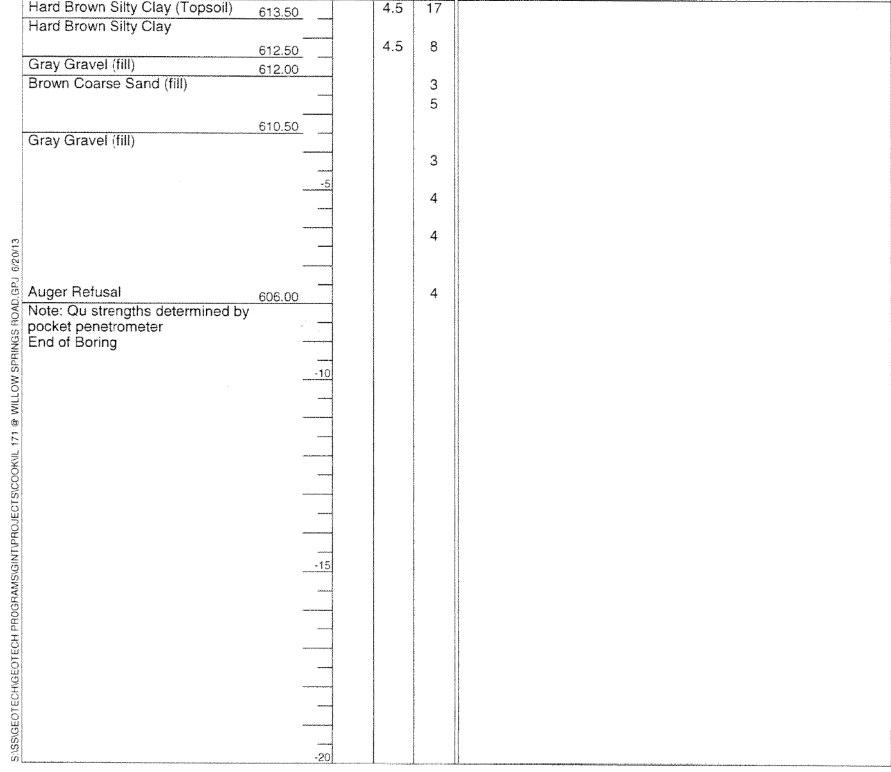
Date 6/18/13

ROUTE FAU 3565 DESCRIPTION Archer Avenue LOGGED BY M. Esposito

SECTION B-N-5 LOCATION SW, SEC. 33, TWP. 38, RNG. 13, 3<sup>rd</sup> PM

COUNTY COOK DRILLING METHOD Mobile B-80, 3.25" HSA HAMMER TYPE

STRUCT. NO.		D	B	U	M	Surface Water Elev.	ft
Station		E	L	C	O	Stream Bed Elev.	ft
BORING NO.	RB-4	P	W	H	S	Groundwater Elev.:	
Station	206+55	H	S	Qu	T	First Encounter	Dry ft
Offset	19.00ft LT					Upon Completion	ft
Ground Surface Elev.	614.00					After	Hrs. ft

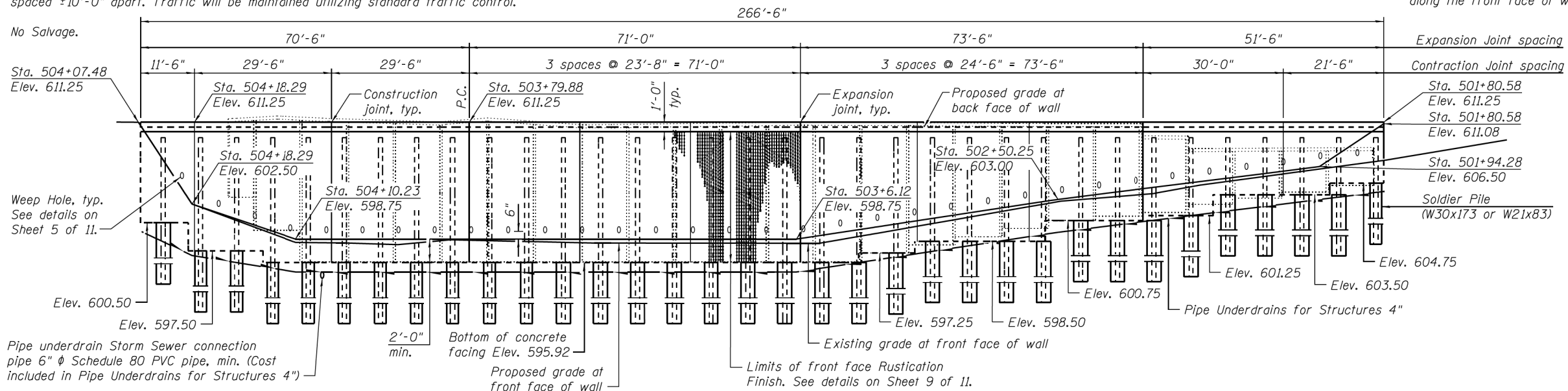


The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)

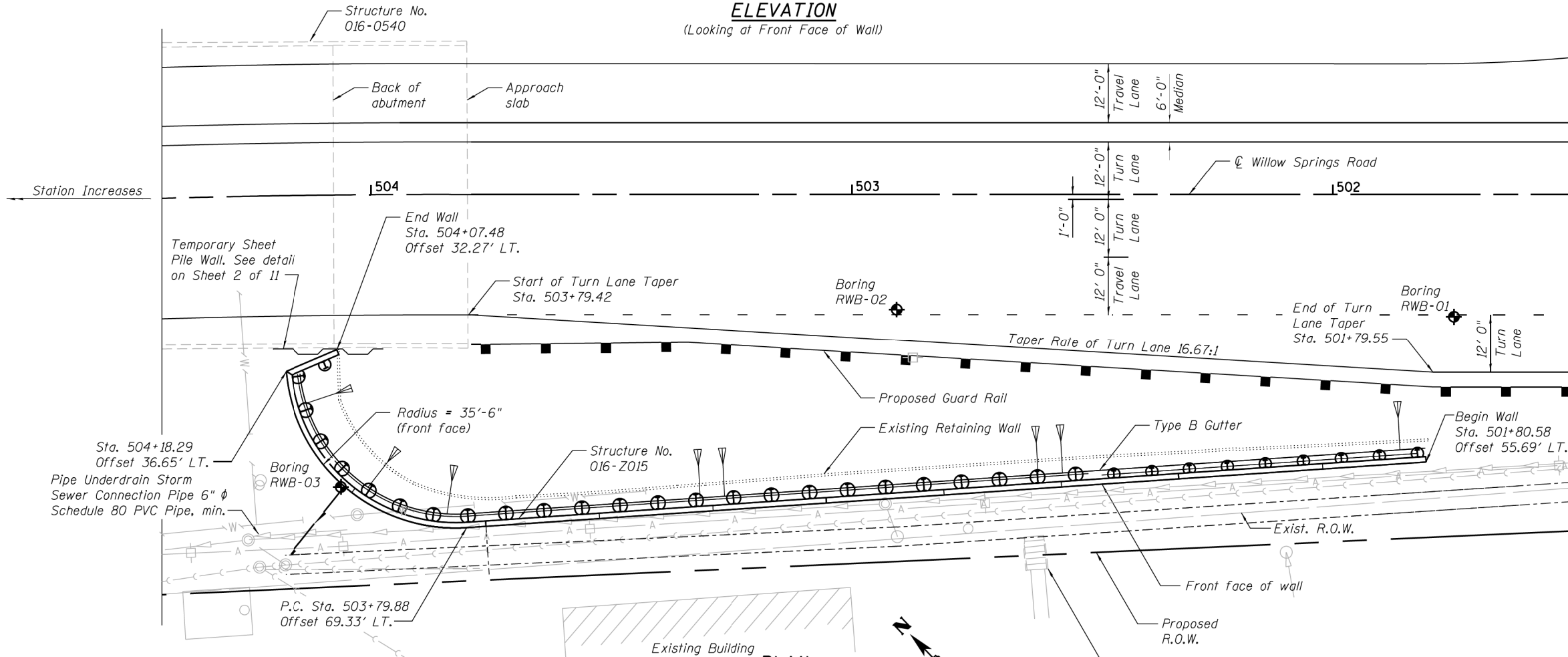
Benchmark: Chiseled Square in concrete base of traffic signal at the north east corner of IL-171 and Willow Springs Road. Elev. 615.27

Existing Structure: Metal "Bin Style" retaining wall was built at an unknown time after 1974. The existing wall does not have a structure number. The wall height varies from ±13'-4" to ±2'-4". The posts are spaced ±10'-0" apart. Traffic will be maintained utilizing standard traffic control.

Note: All dimensions are measured along the front face of wall



**ELEVATION**  
(Looking at Front Face of Wall)



**PLAN**

Notes: Offsets are measured from the  $\phi$  of Willow Springs Road to the front face of wall  
P.C. = Point of curvature of wall  
Utility relocation shown on the roadway plans.  
See Roadway plans for Type B Gutter

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Notes and Bill of Material
- 3 Soldier Pile Layout
- 4 Typical Section
- 5 General Details
- 6-7 Concrete Details
- 8 Pile Splice Details
- 9 Rustication Details
- 10-11 Soil Boring Log

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

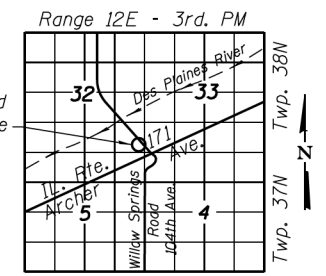
**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

**LEGEND**

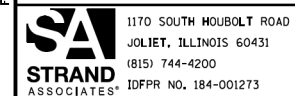
- Pipe Underdrain
- Existing Storm Sewer
- Existing Sanitary Sewer
- Existing Water Main
- Aerial Electric Line
- Utility Pole
- Soil Boring



**LOCATION SKETCH**

**GENERAL PLAN**  
**104TH AVENUE/WILLOW SPRINGS ROAD**  
**F.A.U. 2697 SECTION B-N-5**  
**COOK COUNTY**  
**STATION 501+80.58 TO STATION 504+18.29**  
**STRUCTURE NO. 016-2015**

FILE NAME = S:\JUL163200-6039\F16346\052\Micro\CA00\_Sheets\Structure\Retaining Wall\60N2-sh1-001-CPE.dgn



USER NAME =	DESIGNED - KJL	REVISED
PLOT SCALE =	CHECKED - RRD	REVISED
PLOT DATE =	DRAWN - BJF	REVISED
	CHECKED - RRD	REVISED

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

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 016-2015**

SHEET NO. 1 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	75
CONTRACT NO. 60T24				

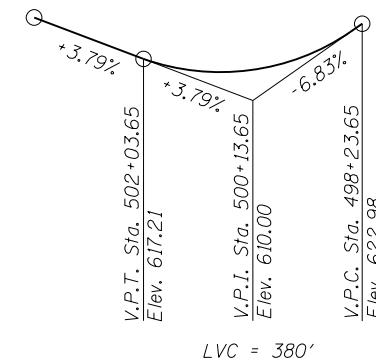
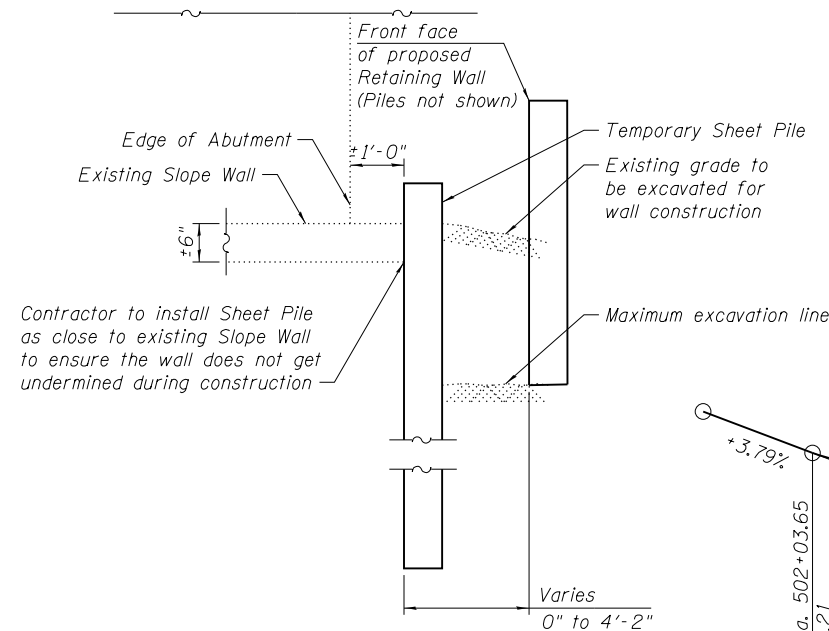
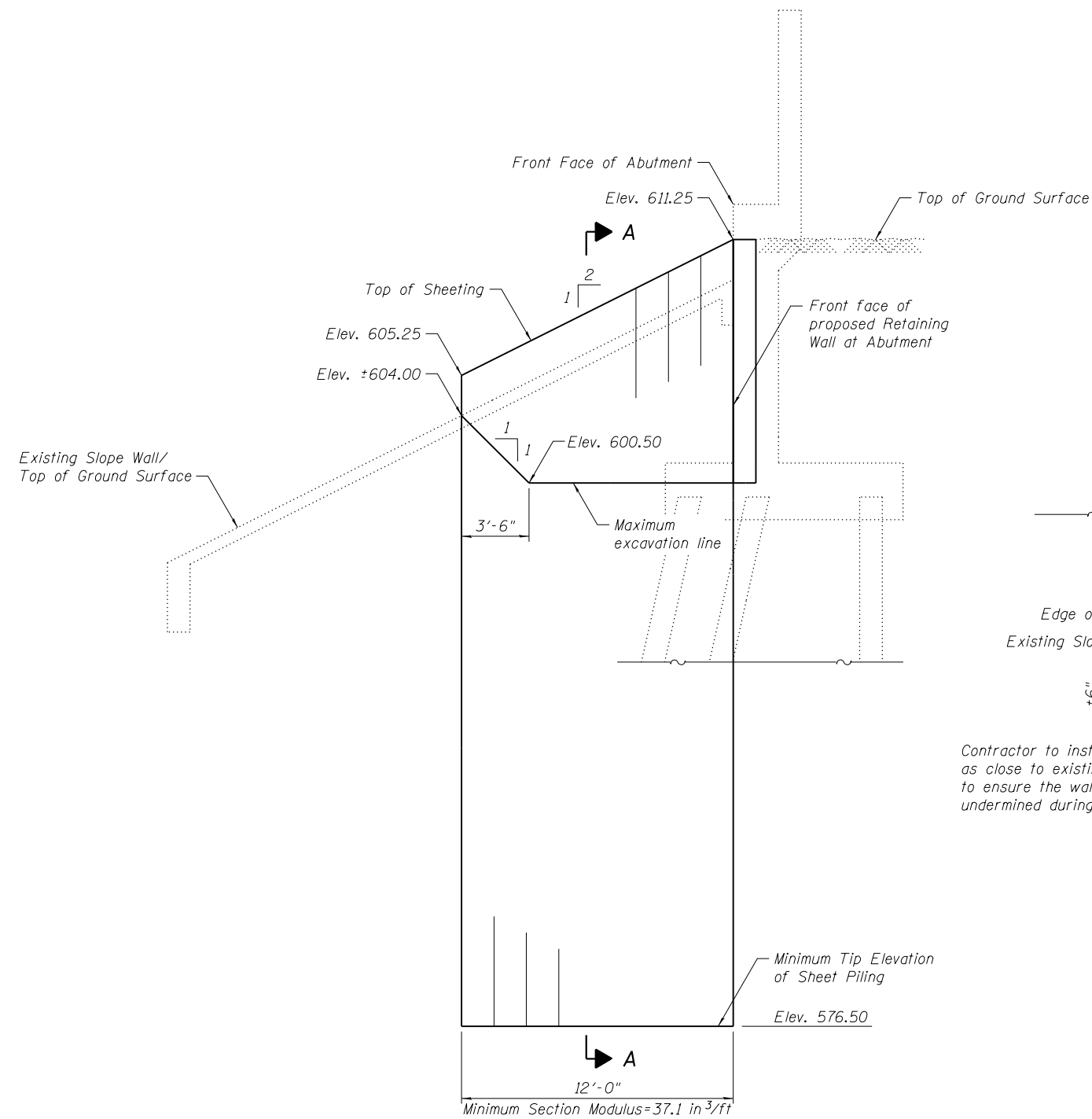
ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 The timber lagging shall be a minimum 3 inch nominal rough-sawn thickness with a minimum allowable bending stress of 1,000 psi.  
 Concrete sealer shall be applied to exposed surfaces of the front face, top face, and back face of the wall.  
 If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the drawings, a design submittal including details and calculations will be required for review and acceptance by the Engineer.  
 The Concrete Facing shall not be poured before all grading work behind and above the wall are complete.  
 Any removal of the existing wall to complete grading or installation of the proposed retaining wall is included in the cost of Concrete Structures. Removal shall be approved by the engineer.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu Yd	80
Concrete Structures	Cu Yd	145
Form Liner Textured Surface	Sq Ft	3,166
Stud Shear Connectors	Each	438
Reinforcement Bars, Epoxy Coated	Pound	11,700
Concrete Sealer	Sq Ft	3,098
Geocomposite Wall Drain	Sq Yd	220
Concrete Gutter, Type B	Foot	267
Drilling And Setting Soldier Piles (In Soil)	Cu Ft	10,928
Granular Backfill For Structures	Cu Yd	370
Untreated Timber Lagging	Sq Ft	2,743
Furnishing Soldier Piles (W Section)	Foot	1,623
Temporary Sheet Piling	Sq Ft	400
Pipe Underdrains For Structures 4"	Foot	293



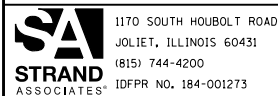
**CURVE DATA**  
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 D = 2° 51' 53"  
 R = 2,000.00'  
 T = 60.75'  
 L = 121.47'  
 E = 0.92'  
 e =  
 T.R. =  
 S.E. Run =  
 P.C. Sta. = 503+79.15  
 P.T. Sta. = 505+00.62

**TEMPORARY SHEET PILE ELEVATION**  
 (Looking North)

**SECTION A-A**

**PROFILE GRADE**  
 (along Willow Springs Road)

FILE NAME = SA\JUL163800-6399\6346\052\Micro\Structural\Retaining Wall\60NE2-sh1-802-01.dgn



1170 SOUTH HOUBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
 IDFPR NO. 184-001273

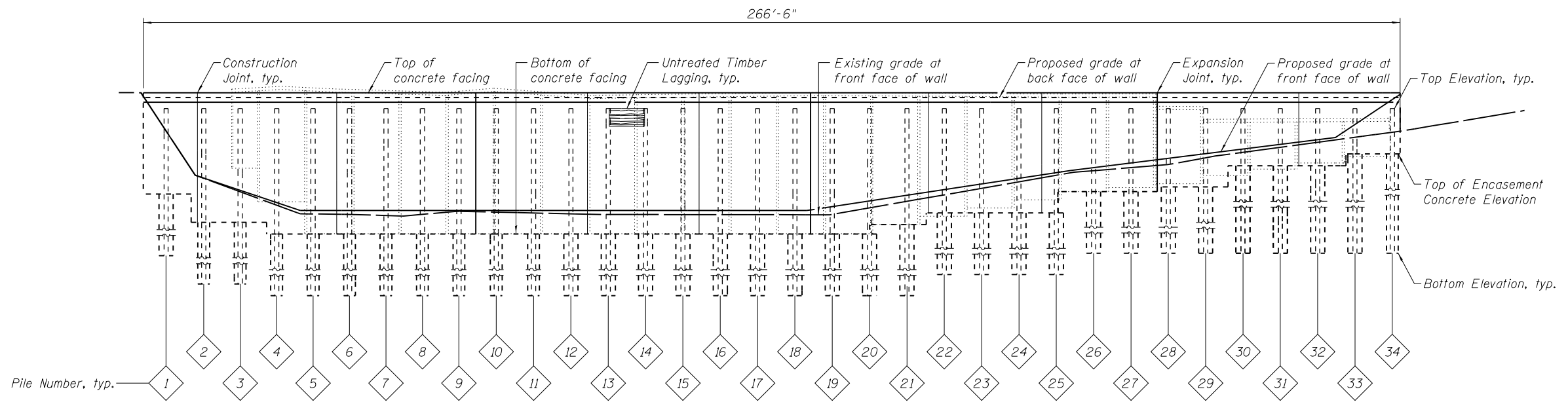
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

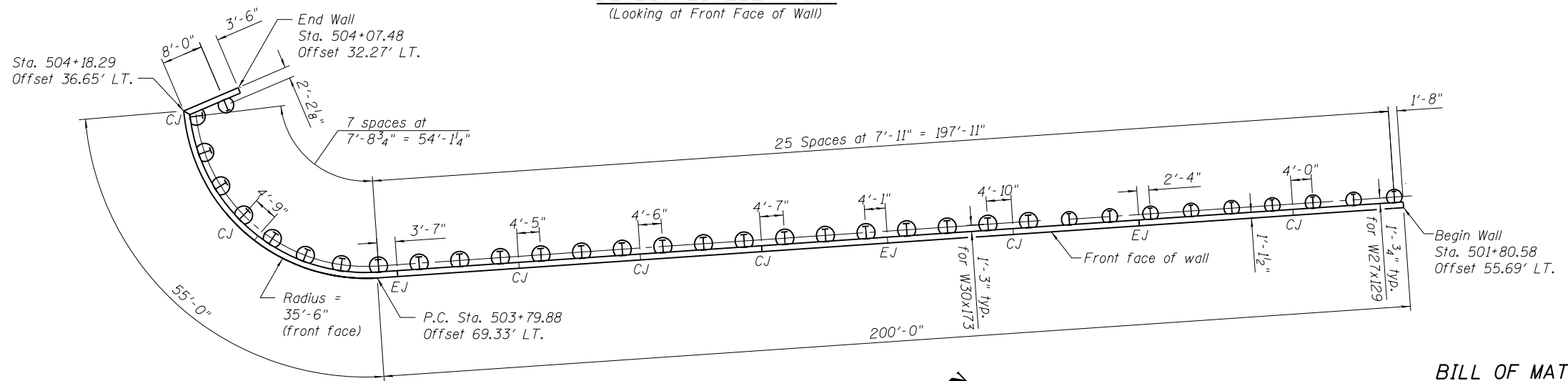
**GENERAL NOTES AND BILL OF MATERIAL  
 STRUCTURE NO. 016-2015**

SHEET NO. 2 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	76
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



**DEVELOPED ELEVATION**  
(Looking at Front Face of Wall)



**PLAN**

Note: All dimensions measured along front face of wall  
EJ = Expansion Joint  
CJ = Construction Joint

**BILL OF MATERIAL**

Item	Unit	Quantity
Furnishing Soldier Piles W Section	Foot	1,623
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	10,928
Untreated Timber Lagging	Sq Ft	2,743
Stud Shear Connectors	Each	438

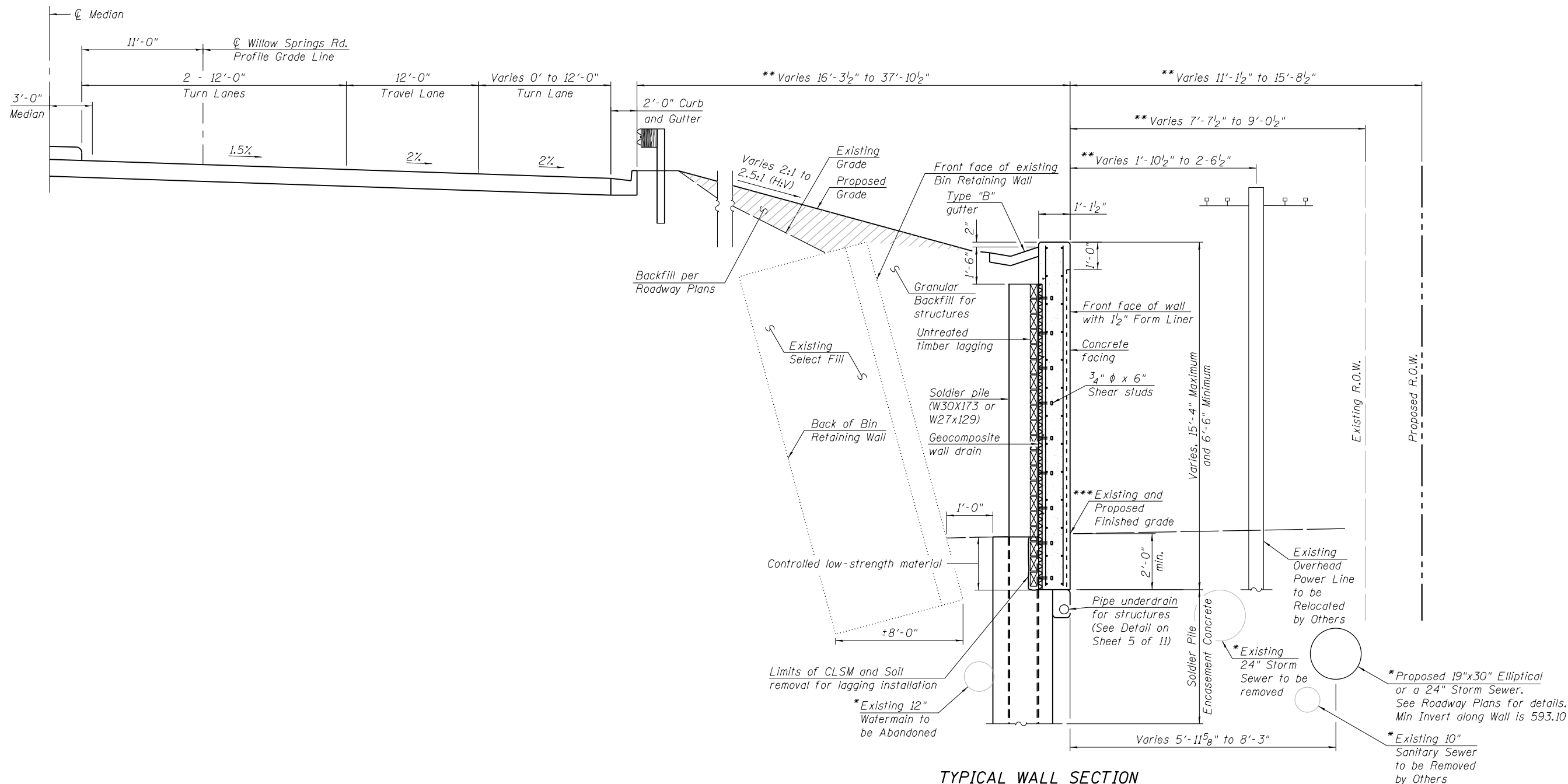
**PILE SUMMARY**

Pile No.	Station	Offset to Centerline of Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Top of Encasement Concrete Elevation	Drilled Hole Diameter	# of Stud Shear Connectors
1	504+09.92	35.62'	W27x129	43'-1"	566.50	609.58	600.50	3'-0"	11
2	504+15.85	37.71'	W30x173	47'-1"	562.50	609.58	597.50	3'-6"	14
3	504+14.27	44.76'	W30x173	47'-1"	562.50	609.58	597.50	3'-6"	14
4	504+11.09	51.26'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
5	504+06.64	57.03'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
6	504+00.94	61.65'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
7	503+94.31	64.96'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
8	503+87.09	66.77'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
9	503+79.62	67'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
10	503+71.96	66.46'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
11	503+64.06	65.92'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
12	503+56.16	65.38'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15

Pile No.	Station	Offset to Centerline of Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Top of Encasement Concrete Elevation	Drilled Hole Diameter	# of Stud Shear Connectors
13	503+48.27	64.84'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
14	503+40.37	64.3'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
15	503+32.47	63.76'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
16	503+24.57	63.22'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
17	503+16.67	62.68'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
18	503+08.78	62.14'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
19	503+00.88	61.6'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
20	502+92.98	61.06'	W30x173	49'-8"	559.92	609.58	595.92	3'-6"	15
21	502+85.08	60.52'	W30x173	47'-4"	562.25	609.58	597.25	3'-6"	14
22	502+77.18	59.98'	W30x173	46'-1"	563.50	609.58	598.50	3'-6"	13
23	502+69.28	59.44'	W30x173	46'-1"	563.50	609.58	598.50	3'-6"	13
24	502+61.38	58.9'	W30x173	46'-1"	563.50	609.58	598.50	3'-6"	13

Pile No.	Station	Offset to Centerline of Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Top of Encasement Concrete Elevation	Drilled Hole Diameter	# of Stud Shear Connectors
25	502+53.49	58.36'	W30x173	46'-1"	563.50	609.58	598.50	3'-6"	13
26	502+45.58	57.94'	W27x129	45'-10"	563.75	609.58	600.75	3'-0"	10
27	502+37.68	57.4'	W27x129	45'-10"	563.75	609.58	600.75	3'-0"	10
28	502+29.78	56.86'	W27x129	45'-4"	564.25	609.58	601.25	3'-0"	10
29	502+21.89	56.32'	W27x129	45'-4"	564.25	609.58	601.25	3'-0"	10
30	502+13.99	55.78'	W27x129	45'-4"	564.25	609.58	603.50	3'-0"	8
31	502+06.09	55.24'	W27x129	45'-4"	564.25	609.58	603.50	3'-0"	8
32	501+98.19	54.7'	W27x129	45'-4"	564.25	609.58	603.50	3'-0"	8
33	501+90.29	54.16'	W27x129	45'-4"	564.25	609.58	603.50	3'-0"	8
34	501+82.39	53.62'	W27x129	45'-4"	564.25	609.58	604.75	3'-0"	6

FILE NAME = SA\101\63300-63399\6346\052\Micro\Structural\Retaining Wall\60N52-sh1-903-PILELAYOUT.dgn



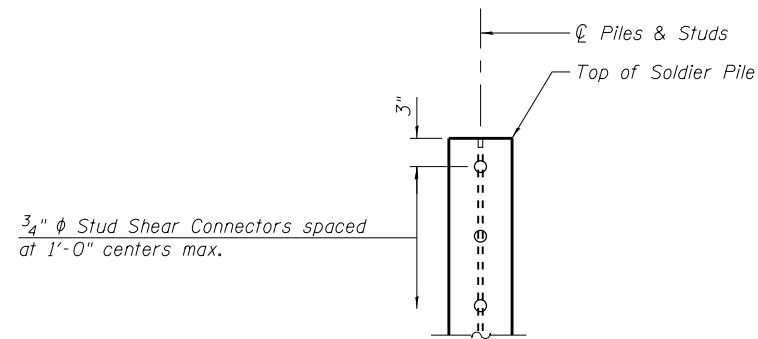
**TYPICAL WALL SECTION**  
 Sta. 501+80.58 to Sta. 504+18.29  
 (Looking Southwest)

\*Depth of utility is not shown  
 \*\* Along tangent section of  
 \*\*\* See elevation view on Sheet 1 of 12  
 for proposed ground elevations

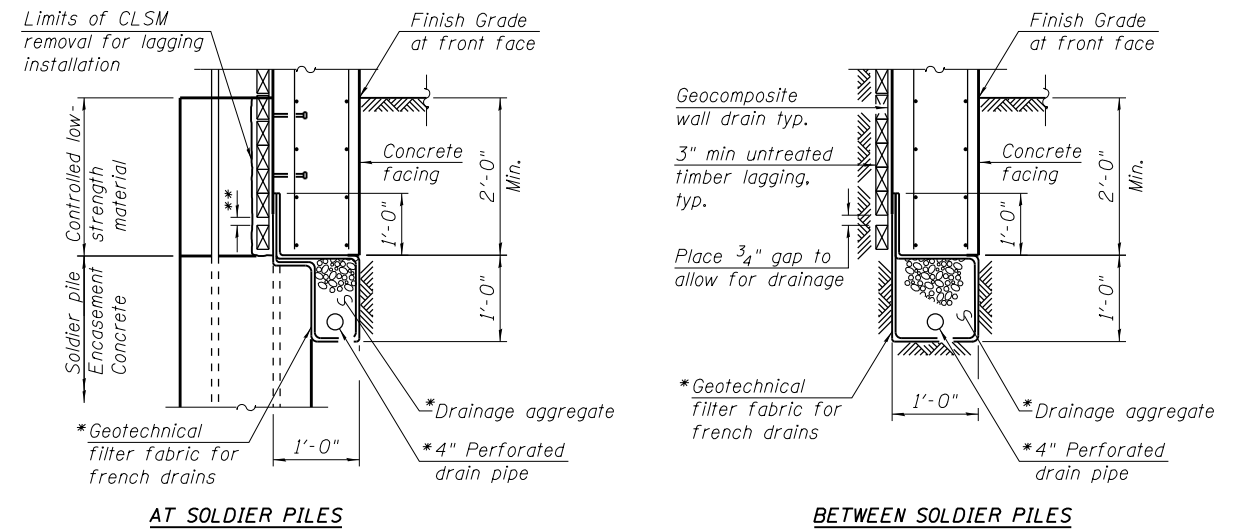
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PLOT SCALE =	CHECKED - RRD	REVISED
PLOT DATE = 2/25/2014	DRAWN - BJF	REVISED
	CHECKED - RRD	REVISED

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	78
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



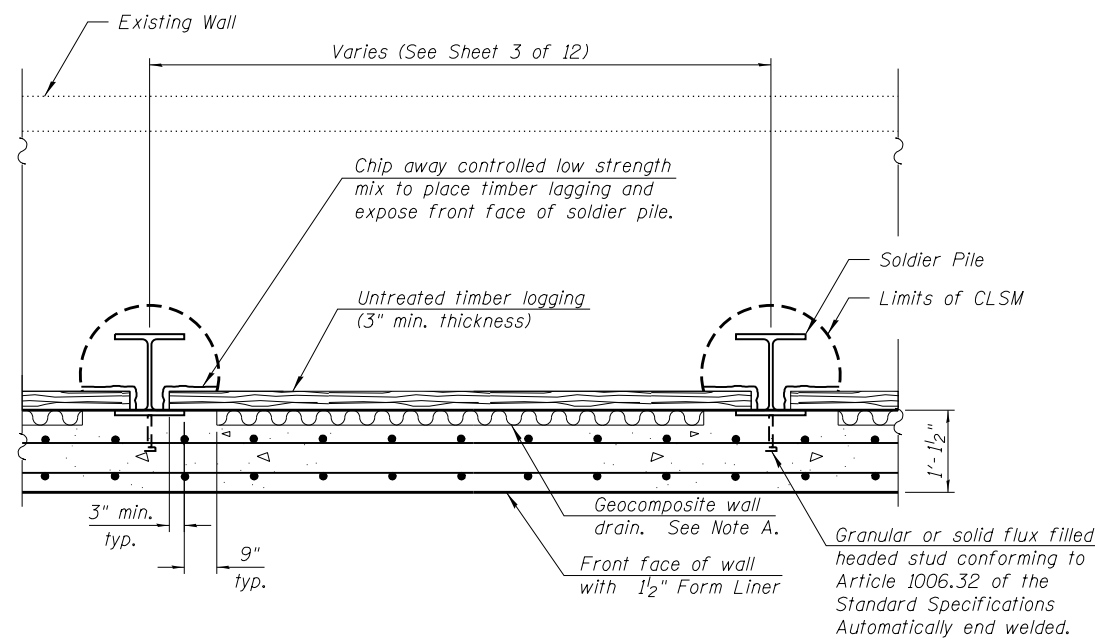
**SHEAR STUD REPLACEMENT**



**PIPE UNDERDRAIN DETAIL**

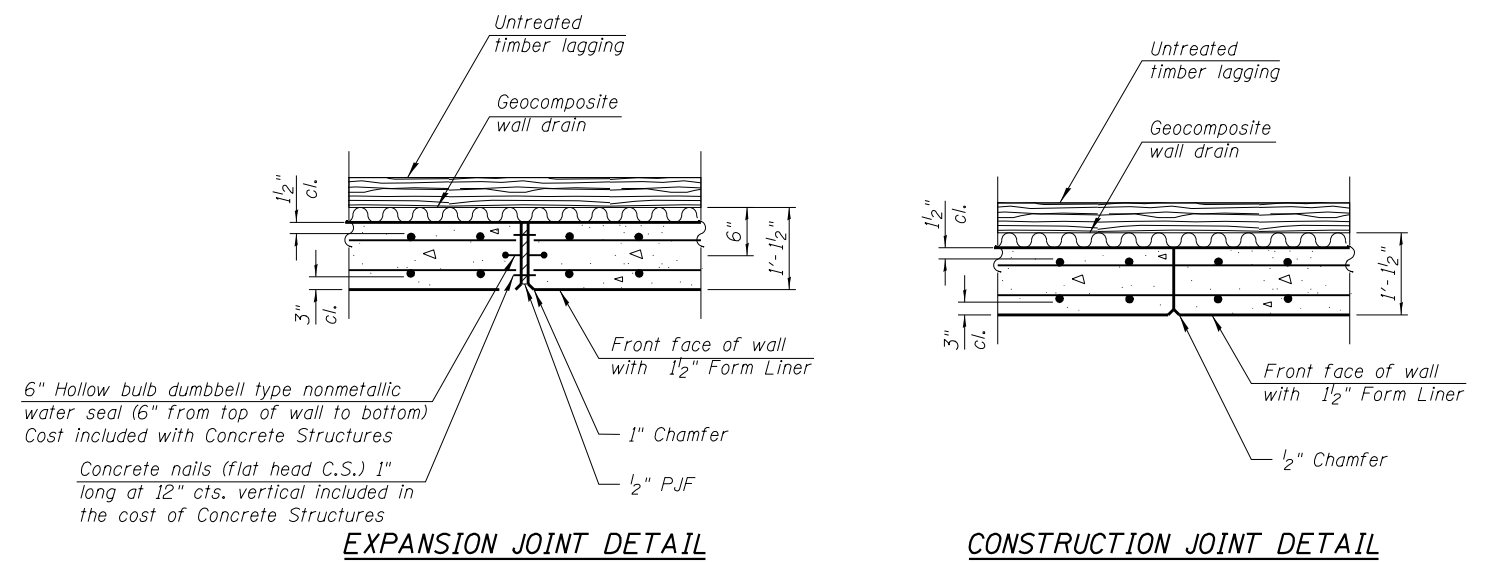
\*Included in the cost of Pipe Underdrain for Structures.  
 \*\*Place 3/4" gap to allow for drainage.

Pipe Underdrain shall tie into storm sewer. The pipe will outlet at approximately Station 504+10. Once the 4" perforated drain pipe exits the geotechnical filter fabric it shall be a solid 6"  $\phi$  schedule 80 PVC pipe (minimum).



**SECTION THRU DRILLED SOLDIER PILE WALL**

Note A: Geocomposite wall drain shall not have a thickness greater than 13/16".

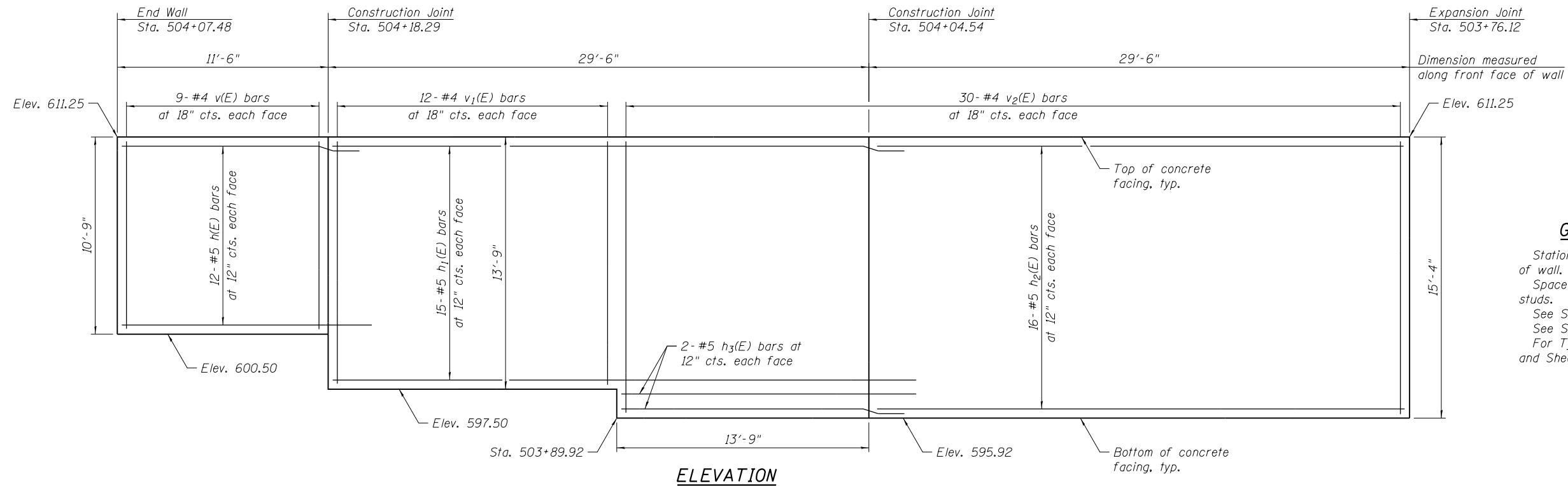


**EXPANSION JOINT DETAIL**

**CONSTRUCTION JOINT DETAIL**

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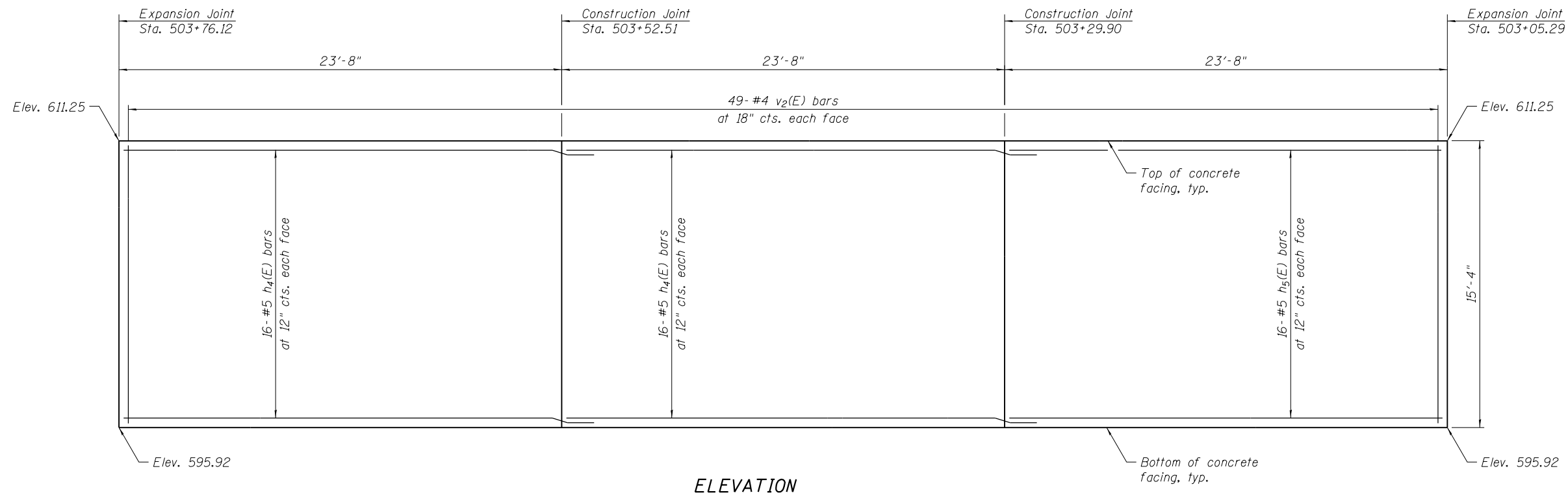


**GENERAL NOTES**

Stations and dimensions are at front face of wall.  
 Space reinforcement in wall to miss shear studs.  
 See Sheet 7 of 12 for Bill of Material.  
 See Sheet 9 of 12 for Form Liner Details.  
 For Typical Section, see Sheet 4 of 12 and Sheet 7 of 12.

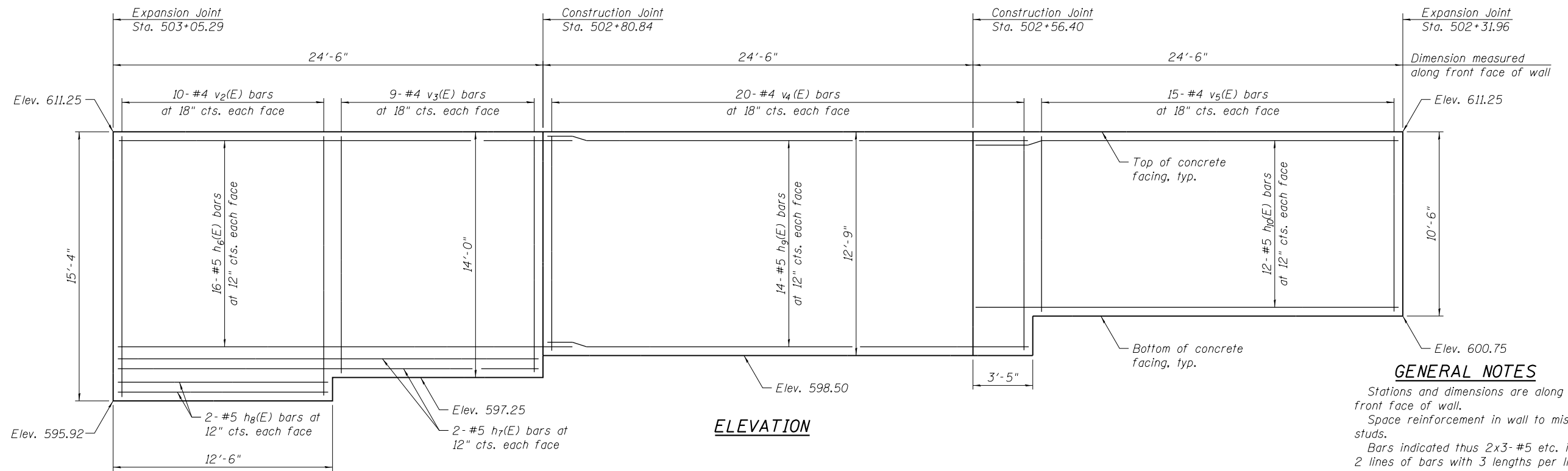
**MIN. BAR LAP**  
 #5 Bar = 3'-3"

**ELEVATION**



**ELEVATION**

FILE NAME = SA\JUL16300-6399\6346\052\Micro\Structural\Retaining Wall\60N2-sh-806-CONDET.dgn



**ELEVATION**

**GENERAL NOTES**

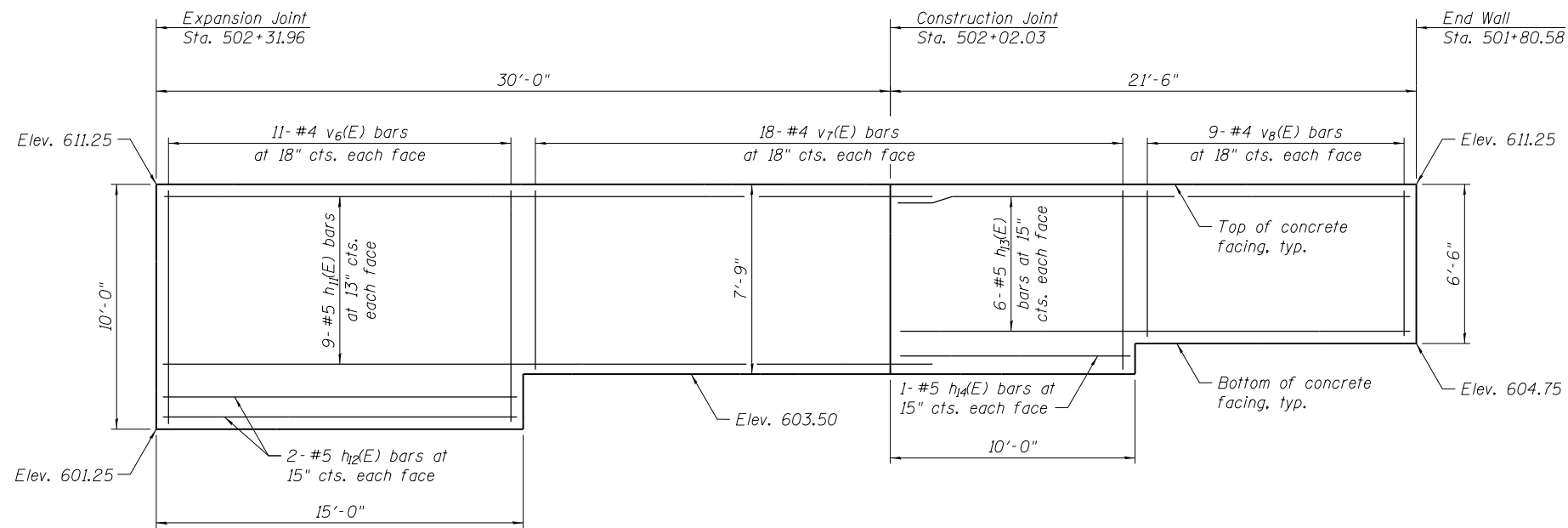
Stations and dimensions are along the front face of wall.  
 Space reinforcement in wall to miss shear studs.  
 Bars indicated thus 2x3-#5 etc. indicates 2 lines of bars with 3 lengths per line.  
 For Typical Section see Sheet 4 of 12 and this sheet.  
 See Sheet 9 of 12 for Form Liner Details.

**MIN. BAR LAP**

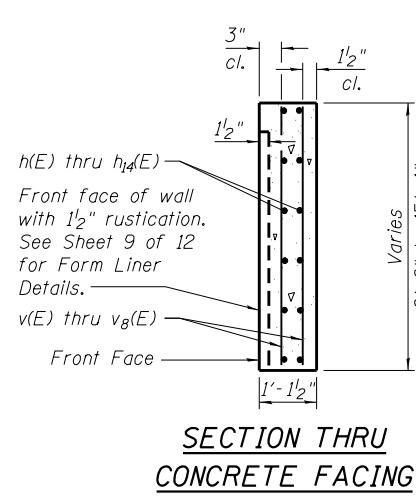
#5 Bar = 3'-3"

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	24	#5	14'-7"	————
h1(E)	30	#5	32'-9"	————
h2(E)	32	#5	29'-4"	————
h3(E)	4	#5	16'-10"	————
h4(E)	64	#5	26'-11"	————
h5(E)	32	#5	23'-6"	————
h6(E)	32	#5	27'-7"	————
h7(E)	4	#5	24'-2"	————
h8(E)	4	#5	12'-2"	————
h9(E)	28	#5	27'-9"	————
h10(E)	24	#5	24'-4"	————
h11(E)	18	#5	33'-1"	————
h12(E)	4	#5	14'-8"	————
h13(E)	12	#5	21'-4"	————
h14(E)	2	#5	9'-10"	————
v(E)	18	#4	10'-5"	————
v1(E)	24	#4	13'-5"	————
v2(E)	178	#4	15'-0"	————
v3(E)	18	#4	13'-8"	————
v4(E)	40	#4	12'-5"	————
v5(E)	30	#4	10'-2"	————
v6(E)	22	#4	9'-8"	————
v7(E)	36	#4	7'-5"	————
v8(E)	18	#4	6'-2"	————
Concrete Structures	Cu Yd		145	
Form Liner	Sq Ft		3,166	
Textured Surface				
Reinforcement Bars, Epoxy Coated	Pound		11,700	
Concrete Sealer	Sq Ft		3,098	

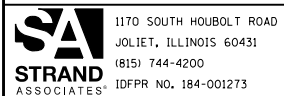


**ELEVATION**



**SECTION THRU CONCRETE FACING**

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 PLOT SCALE =  
 PLOT DATE = 2/25/2014

DESIGNED - KJL  
 CHECKED - RRD  
 DRAWN - BJF  
 CHECKED - RRD

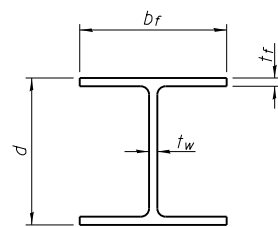
REVISED  
 REVISED  
 REVISED  
 REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE DETAILS (2 OF 2)  
 STRUCTURE NO. 016-2015**

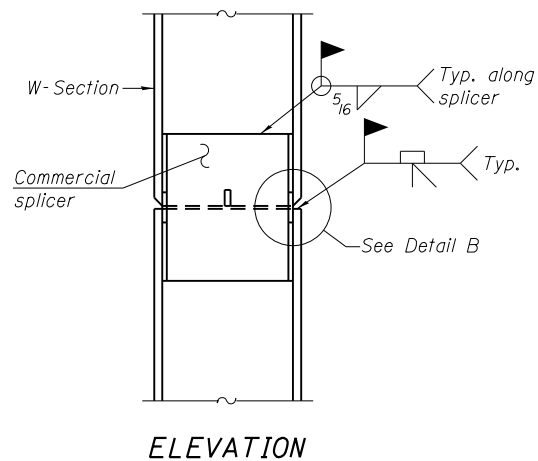
SHEET NO. 7 OF 12 SHEETS

F.A.U. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	81
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

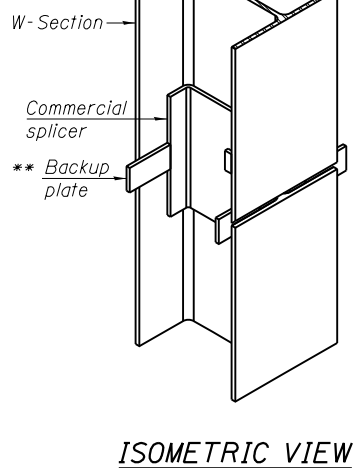
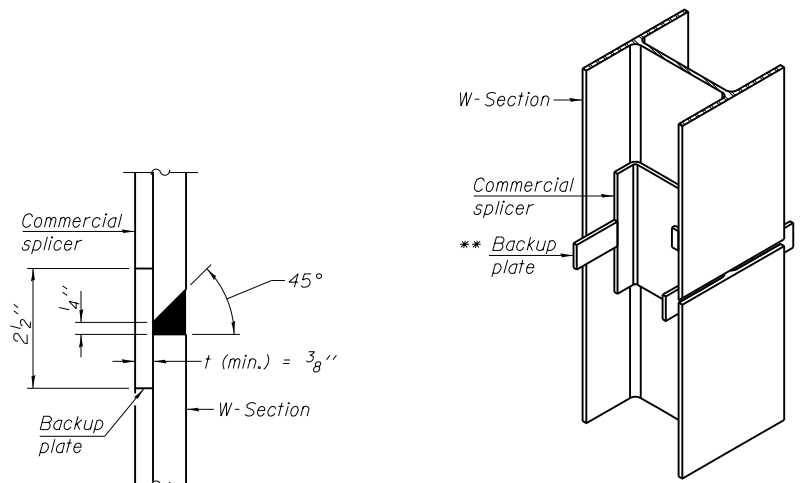


**STEEL PILE TABLE**

Designation	Depth d	Flange width b <sub>f</sub>	Flange thickness t <sub>f</sub>	Web thickness t <sub>w</sub>	Encasement diameter A
W27x129	27 <sup>5</sup> / <sub>8</sub> "	10"	1 <sup>1</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	3'-0"
W30x173	30 <sup>1</sup> / <sub>2</sub> "	15"	1 <sup>1</sup> / <sub>6</sub> "	5 <sup>5</sup> / <sub>8</sub> "	3'-6"

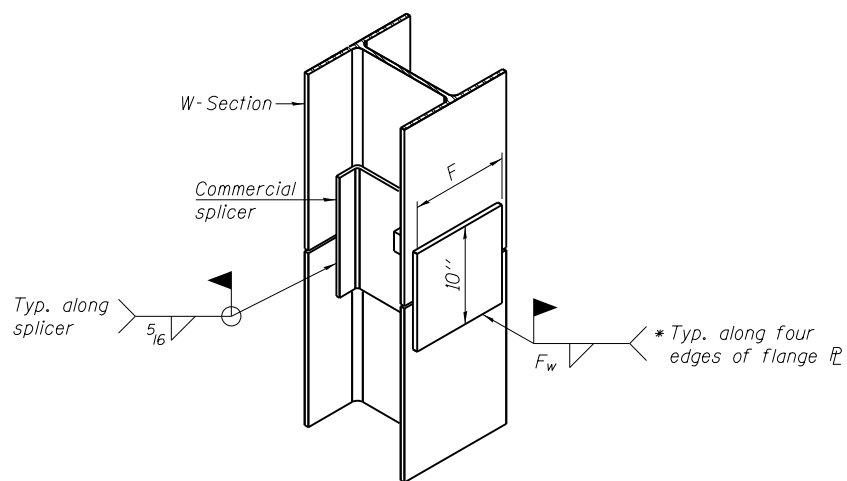


**ELEVATION**



**DETAIL "B"**

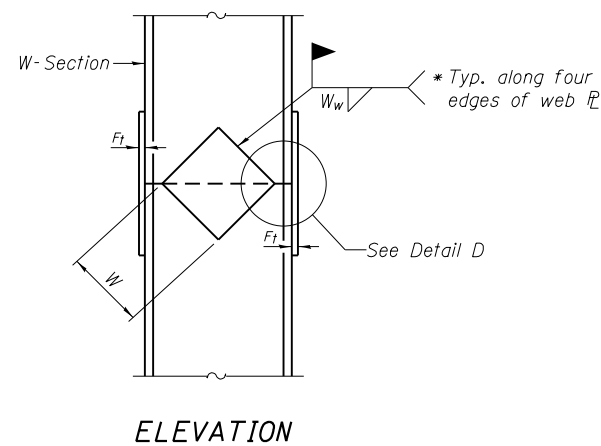
**WELDED COMMERCIAL SPLICE**



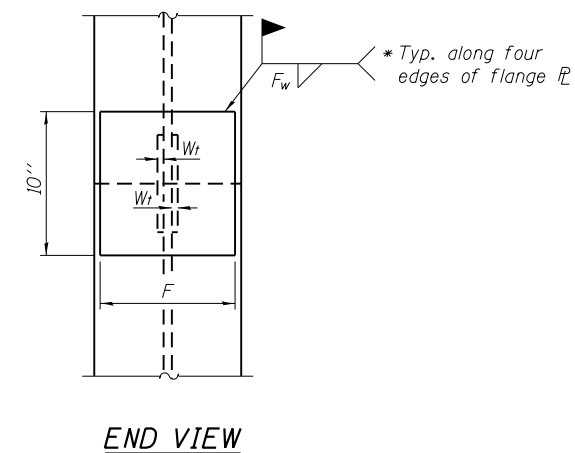
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

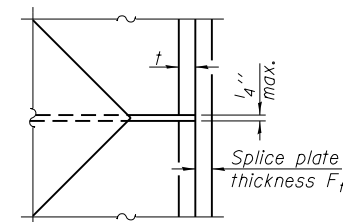
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.



**ELEVATION**



**END VIEW**



**DETAIL D**

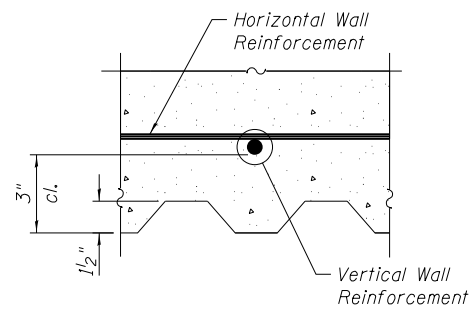
Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
W21x83	8"	1 <sup>1</sup> / <sub>2</sub> "	7 <sup>7</sup> / <sub>8</sub> "	16 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
W30x173	12 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>8</sub> "	7 <sup>7</sup> / <sub>8</sub> "	18 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "

**WELDED PLATE FIELD SPLICE**

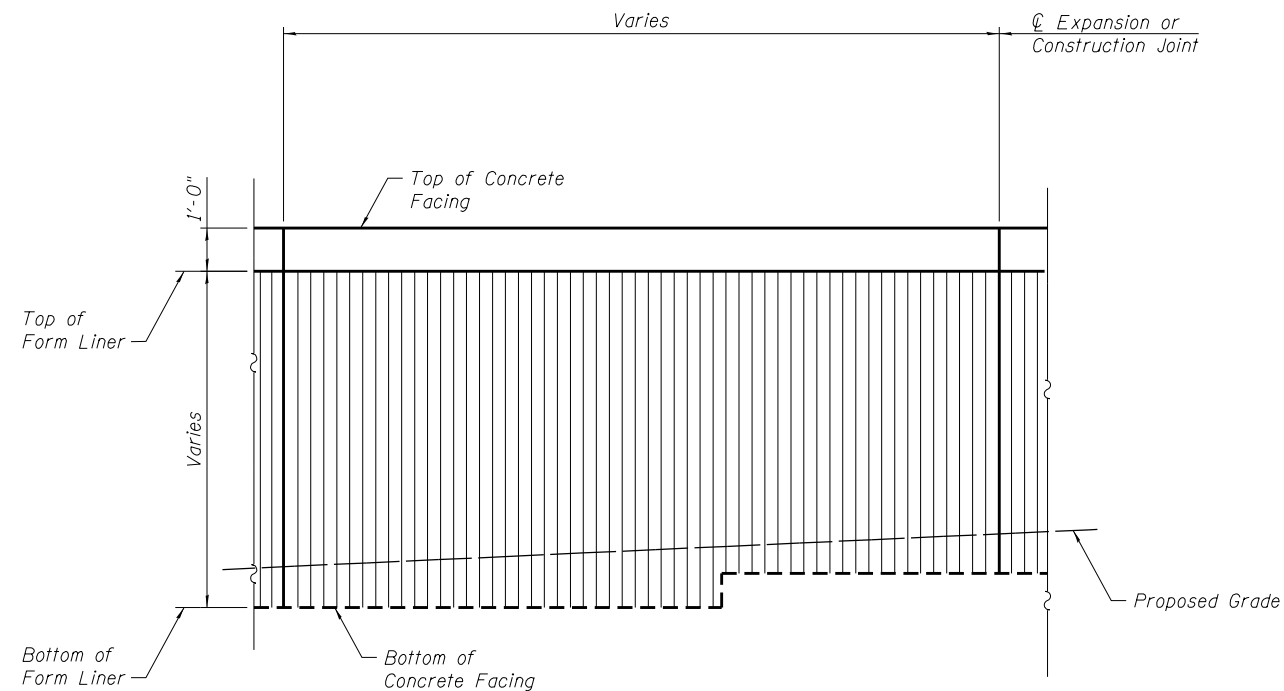
Note:  
The steel W-Sections shall be according to AASHTO M270 Grade 50.

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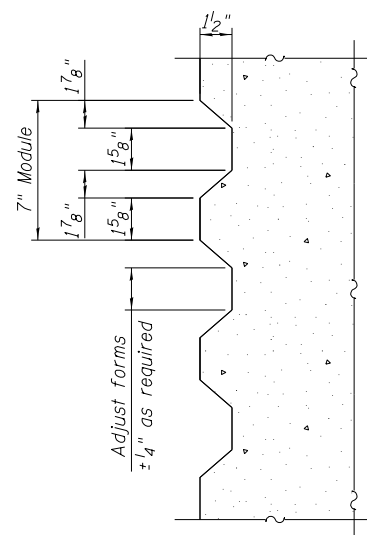
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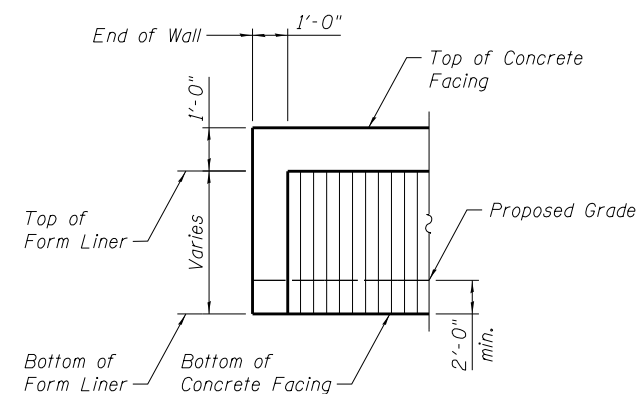
**PLAN - FORM LINER**



**ELEVATION - FORM LINER**



**FORM LINER DETAIL**



**END FORM LINER FINISH**

**Wang Engineering**  
 wangeng@wangeng.com  
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 Fax: 630 953-9938

**BORING LOG RWB-01**  
 WEI Job No.: 195-09-02  
 Client: **Strand Associates, Inc.**  
 Project: **IL-171 at Willow Springs Road (Gilbert Avenue)**  
 Location: **Willow Springs, IL**

Datum: NGVD  
 Elevation: 616.20 ft  
 North: 1845374.99 ft  
 East: 1108630.11 ft  
 Station: 501+74.8  
 Offset: 25.4 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
615.3	10.5-inch thick CONCRETE --PAVEMENT--	0					615.3		0				
	Loose, brown SILTY LOAM --FILL--	1	1	4	NP	15			1	11	4	NP	25
		2	2	4	NP	21			2	12	8	NP	23
		3	3	2	0.50 P	20	588.2	Boring terminated at 30.00 ft	3	12	18	NP	24
610.7	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--	5	4	2	NR	20			4	11	15	NP	22
		10	5	2	NR	14			5	11	10	NP	24
605.7	Loose, brown SANDY LOAM, trace gravel and brick fragments --FILL--	15	6	4	NP	5			6	4	9	NP	16
		20	7	8	NP	3			7	8	10	NP	24
603.2	Medium dense to dense, brown, fine SAND	25	8	8	NP	24			8	8	8	NP	24
			9	5	NP	23			9	5	5	NP	23
			10	3	NP	25			10	3	4	NP	25

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-22-2013	Complete Drilling	03-22-2013	While Drilling	▽	20.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	22.00 ft	
Driller	K&K	Logger	F. Bozga	Time After Drilling	NA		
Drilling Method	3.25" HSA, Auto Hammer, Boring backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**BORING LOG RWB-1A**  
 WEI Job No.: 195-09-04  
 Client: **Strand**  
 Project: **IL 171 at Willow Spring Road**  
 Location: **SE 1/4 of Sec. 32, T38N, R12E of 3rd PM**

Datum: NGVD  
 Elevation: 615.42 ft  
 North: 1845368.43 ft  
 East: 1108634.39 ft  
 Station: 501+67.1  
 Offset: 26.4 LT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
614.6	9.5 inch thick CONCRETE PAVEMENT	0					614.6		0				
	--BLIND DRILLING 0-33.5--												
		5							5				
	--WET CUTTINGS AT 30'--												
581.9	Loose to medium dense, gray medium to coarse SAND, trace gravel --WET--	35	1	3	NP	22			35	1	3	NP	22
		40	2	5	NP	16			40	2	5	NP	16
	--HEAVING SAND-- --MUD ROTARY AFTER 40'--	45	3	5	NP	13			45	3	5	NP	13
		50	4	50/6	NP	7			50	4	50/6	NP	7
568.9	Very dense, gray SILTY LOAM, some gravel and rock fragments --WET--												

GENERAL NOTES				WATER LEVEL DATA				
Begin Drilling	01-16-2014	Complete Drilling	01-16-2014	While Drilling	▽	30.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55	At Completion of Drilling	▽	21.00 ft		
Driller	R&N	Logger	B. Wilson	Time After Drilling	NA			
Checked by	AZH	Drilling Method	Blind drilled to 33.5 ft, 5 ft interval to bedrock			Depth to Water	▽	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.								

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**BORING LOG RWB-1A**  
 WEI Job No.: 195-09-04  
 Client: **Strand**  
 Project: **IL 171 at Willow Spring Road**  
 Location: **SE 1/4 of Sec. 32, T38N, R12E of 3rd PM**

Datum: NGVD  
 Elevation: 615.42 ft  
 North: 1845368.43 ft  
 East: 1108634.39 ft  
 Station: 501+67.1  
 Offset: 26.4 LT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
559.9	--ROLLER BIT REFUSAL AT 55.5'--	55	5	29	NP	10			55	5	29	NP	10
	Boring terminated at 55.50 ft												

GENERAL NOTES				WATER LEVEL DATA				
Begin Drilling	01-16-2014	Complete Drilling	01-16-2014	While Drilling	▽	30.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55	At Completion of Drilling	▽	21.00 ft		
Driller	R&N	Logger	B. Wilson	Time After Drilling	NA			
Checked by	AZH	Drilling Method	Blind drilled to 33.5 ft, 5 ft interval to bedrock			Depth to Water	▽	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.								

FILE NAME = SA\_IL\_163200-63995346\_052\_Micros\CAD\_Sheets\Structure\Retaining Wall\60N22-sh-100-SBL.dgn



USER NAME = briantf	DESIGNED - KJL	REVISOR
PLOT SCALE =	CHECKED - RRD	REVISION
PLOT DATE = 2/25/2014	DRAWN - BJF	REVISION
	CHECKED - RRD	REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

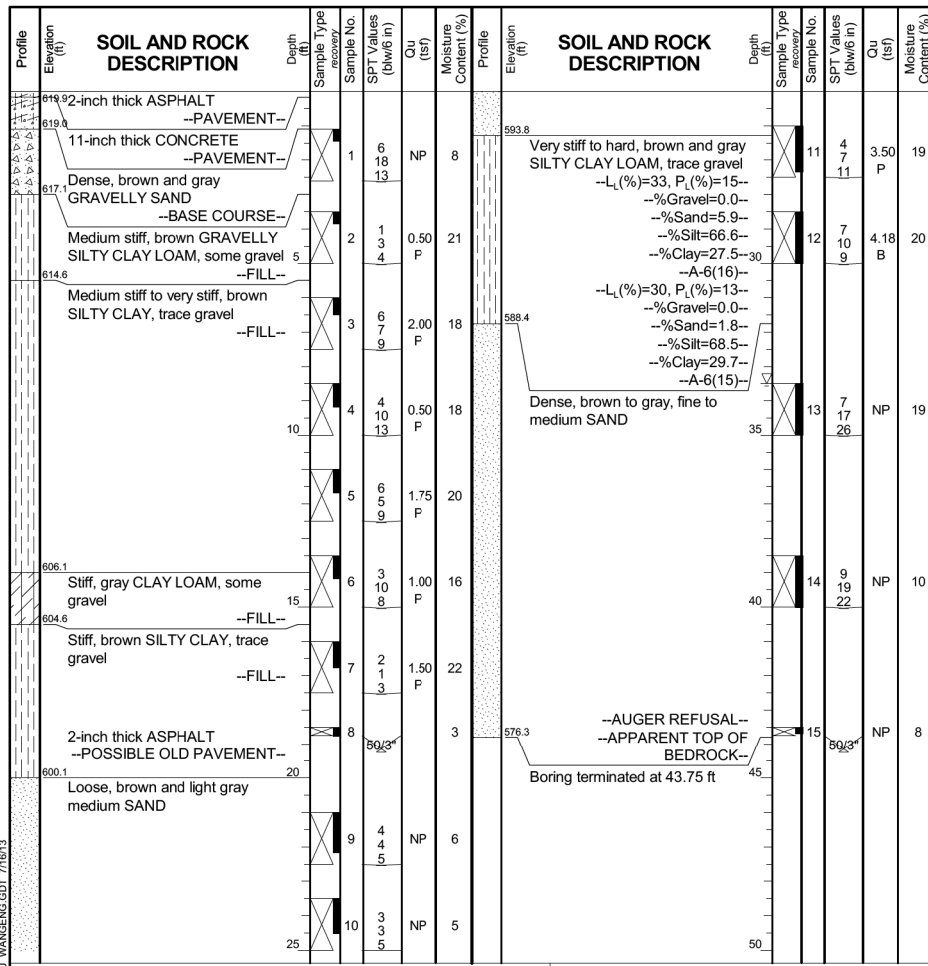
SOIL BORING LOG (1 OF 3)  
 STRUCTURE NO. 016-2015  
 SHEET NO. 10 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	84
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

**Wang Engineering**  
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 Lombard, IL 60148  
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 Fax: 630 953-9938

**BORING LOG RWB-02**  
 WEI Job No.: 195-09-02  
 Datum: NGVD  
 Elevation: 620.10 ft  
 North: 1845463.93 ft  
 East: 1108555.75 ft  
 Station: 502.90.7  
 Offset: 23.9 LT

Client: **Strand Associates, Inc.**  
 Project: **IL-171 at Willow Springs Road (Gilbert Avenue)**  
 Location: **Willow Springs, IL**



**GENERAL NOTES**  
 Begin Drilling: 03-20-2013 Complete Drilling: 03-20-2013  
 Drilling Contractor: Wang Testing Services Drill Rig: Mobile B-57 TMR  
 Driller: D&T Logger: R. Gorlagunta Checked by: C. Marin  
 Drilling Method: 3.25" HSA, Auto Hammer, Boring backfilled upon completion

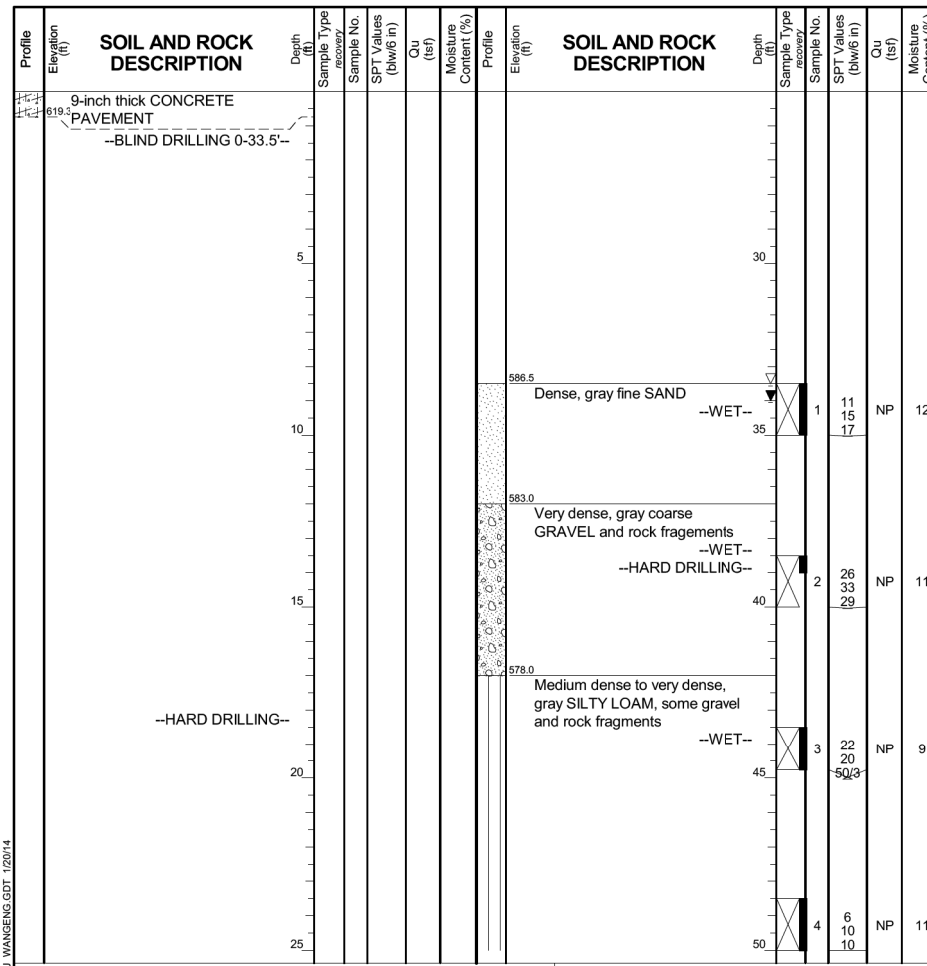
**WATER LEVEL DATA**  
 While Drilling: 33.50 ft  
 At Completion of Drilling: DRY  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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**BORING LOG RWB-2A**  
 WEI Job No.: 195-09-04  
 Datum: NGVD  
 Elevation: 620.02 ft  
 North: 1845450.12 ft  
 East: 1108564.54 ft  
 Station: 502+74.5  
 Offset: 26.2 LT

Client: **Strand**  
 Project: **IL 171 at Willow Spring Road**  
 Location: **SE 1/4 of Sec. 32, T38N, R12E of 3rd PM**



**GENERAL NOTES**  
 Begin Drilling: 01-15-2014 Complete Drilling: 01-15-2014  
 Drilling Contractor: Wang Testing Services Drill Rig: CME-55  
 Driller: R&N Logger: B. Wilson Checked by: AZH  
 Drilling Method: Blind drilled to 33.5 ft, 5 ft interval to 60 ft, rock core 60-70ft

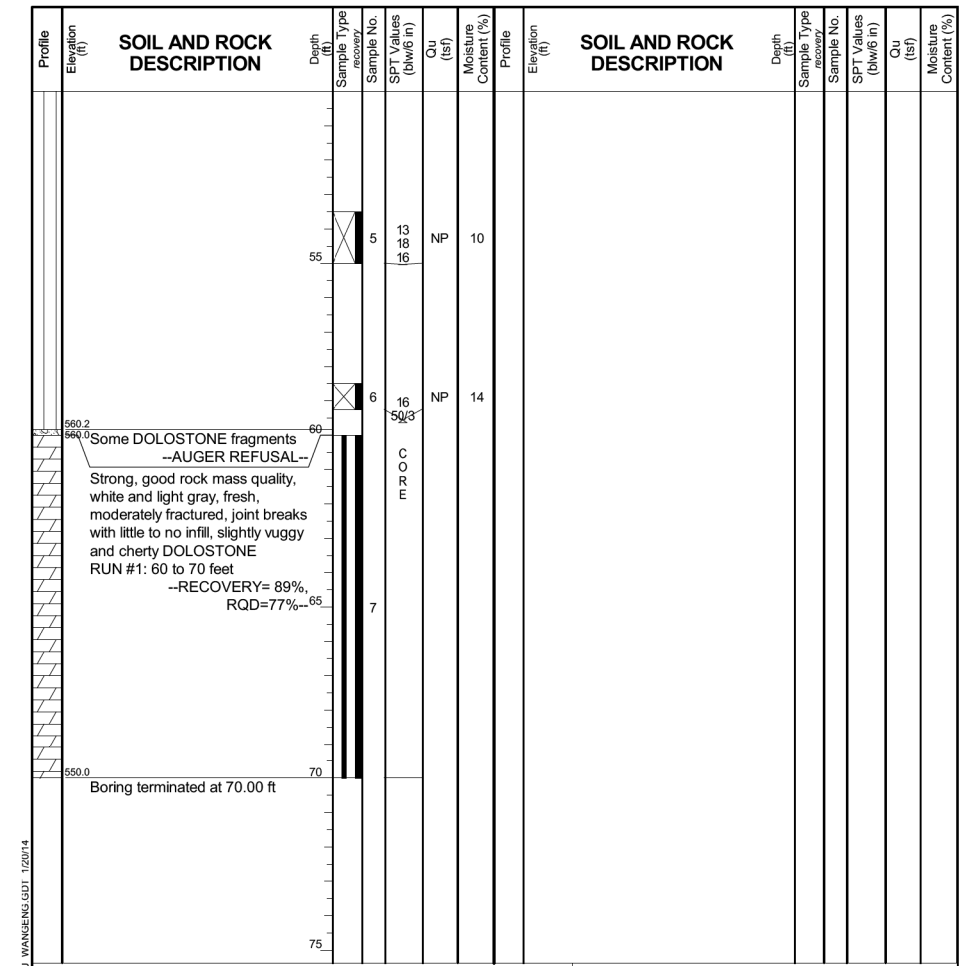
**WATER LEVEL DATA**  
 While Drilling: 33.50 ft  
 At Completion of Drilling: 34.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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**BORING LOG RWB-2A**  
 WEI Job No.: 195-09-04  
 Datum: NGVD  
 Elevation: 620.02 ft  
 North: 1845450.12 ft  
 East: 1108564.54 ft  
 Station: 502+74.5  
 Offset: 26.2 LT

Client: **Strand**  
 Project: **IL 171 at Willow Spring Road**  
 Location: **SE 1/4 of Sec. 32, T38N, R12E of 3rd PM**



**GENERAL NOTES**  
 Begin Drilling: 01-15-2014 Complete Drilling: 01-15-2014  
 Drilling Contractor: Wang Testing Services Drill Rig: CME-55  
 Driller: R&N Logger: B. Wilson Checked by: AZH  
 Drilling Method: Blind drilled to 33.5 ft, 5 ft interval to 60 ft, rock core 60-70ft

**WATER LEVEL DATA**  
 While Drilling: 33.50 ft  
 At Completion of Drilling: 34.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

FILE NAME = SA\JL163200-6399\6346\052\Micro\CAD Sheets\Structural\Retaining Wall\60N52-sh-10-SBL.dgn



USER NAME = briant	DESIGNED - KJL	REVISED
PLOT SCALE =	CHECKED - RRD	REVISED
PLOT DATE = 2/25/2014	DRAWN - B.JF	REVISED
	CHECKED - RRD	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

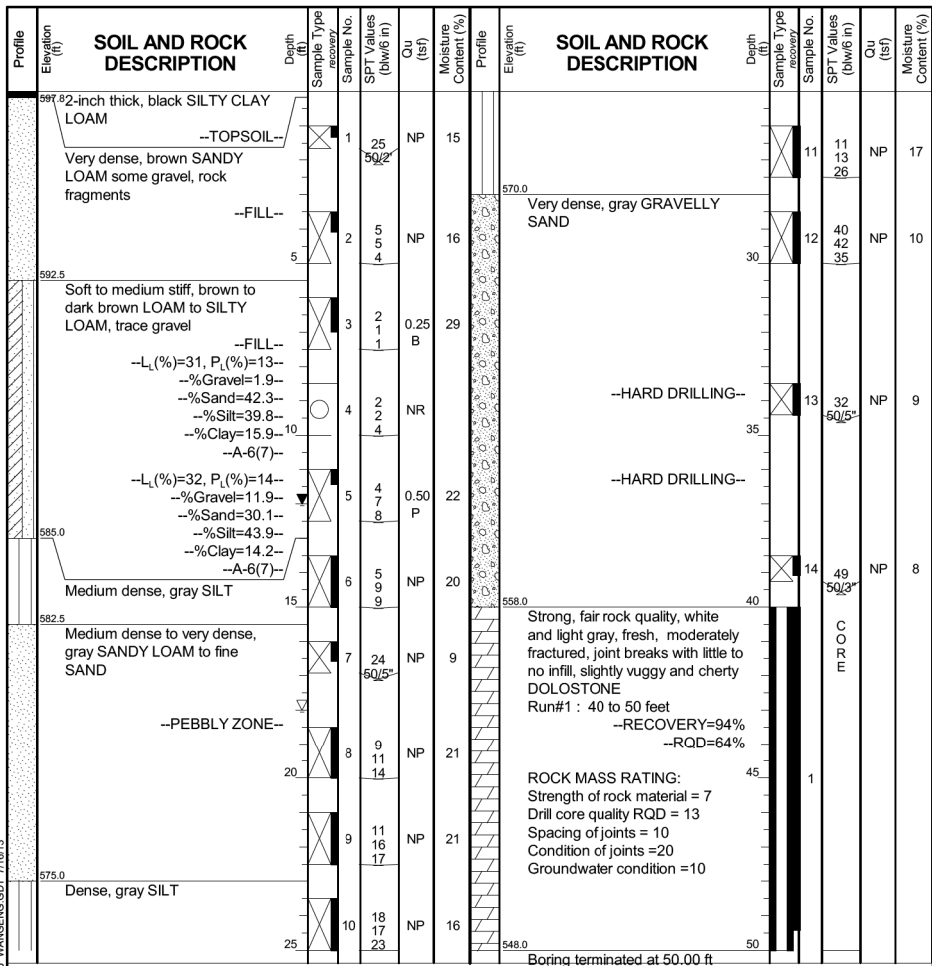
SOIL BORING LOG (2 OF 3)  
 STRUCTURE NO. 016-2015  
 SHEET NO. 11 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	85
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

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 Lombard, IL 60148  
 Telephone: 630 953-9928  
 Fax: 630 953-9938

**BORING LOG RWB-03**  
 WEI Job No.: 195-09-02  
 Client: **Strand Associates, Inc.**  
 Project: **IL-171 at Willow Springs Road (Gilbert Avenue)**  
 Location: **Willow Springs, IL**

Datum: NGVD  
 Elevation: 598.00 ft  
 North: 1845527.52 ft  
 East: 1108452.45 ft  
 Station: 504+06.9  
 Offset: 60.8 LT



**GENERAL NOTES**

Begin Drilling: 03-22-2013 Complete Drilling: 03-22-2013  
 Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR  
 Driller: K&K Logger: F. Bozga Checked by: C. Marin  
 Drilling Method: 3.25" HSA, Auto Hammer, Boring backfilled upon completion

**WATER LEVEL DATA**

While Drilling: 18.00 ft  
 At Completion of Drilling: 12.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



**Rock Core Log**

Route: Willow Springs Structure No.: (Exist.) (Prop.) Date: 1/15/14 Page: 1 of 1  
 Section: Description: Soil boring for retaining wall  
 County: Cook Logged by: B. Wilson

Boring No.: RWB-02A Coring Method: Conventional 10' run Core Diameter: 2.06 in  
 Station: 502+74.5 Barrel Type: NWD4  
 Offset: 26.2 LT Barrel Size: 2.985  
 Latitude: 41.732519169 Top of Rock Elev.: 560.0 ft  
 Longitude: -87.877882657 Begin Core Elev.: 560.0 ft

Rock Type, Description and Observations	ELEV. (ft)	DEPTH (ft)	CORE No.	R. Q. D. (%)	T I M E (min/ft)	U. C. S. Qu (tsf)
Strong, good rock quality, white to light gray, fresh, moderately fractured, joint breaks with little to no infill, slightly vuggy and cherty DOLOSTONE	560.0	60	1	89	77	548
End of boring 70.0' bgs	550.0	70				

Color pictures of the cores taken (Y/N): Y Cores will be disposed of after: \_\_\_\_\_  
 Cores will be stored for examination at: WTS  
 The U.C.S. Qu column represents the Unconfined Compressive Strength using ASTM D-2938

FILE NAME = SA\JOL\63800-6399\6346\052\Micro\Structure\Retaining Wall\60NE2-sh-010-SBL.dgn



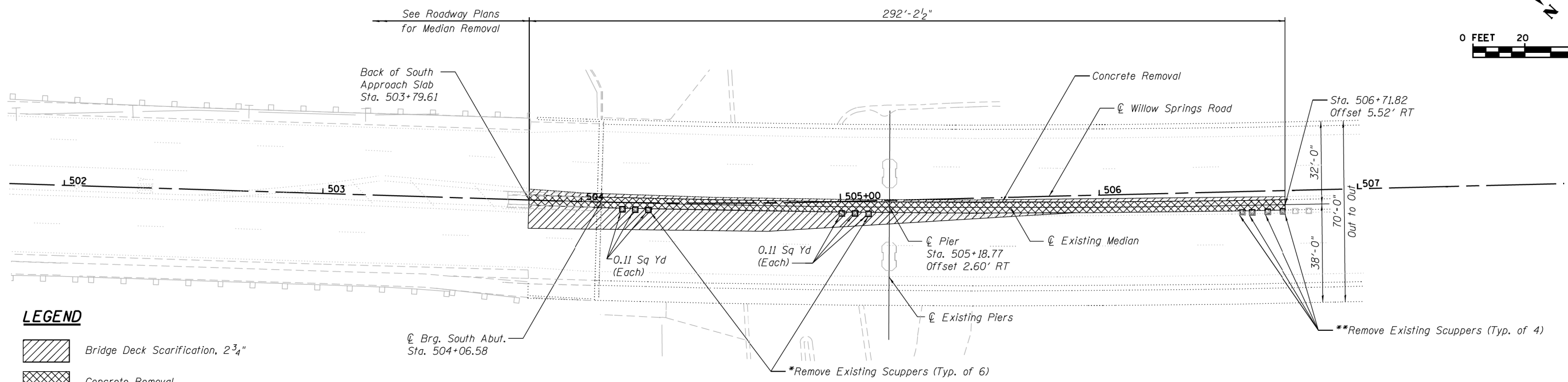
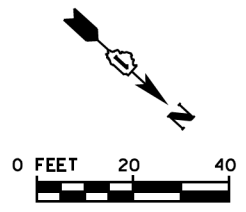
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PLOT SCALE =	CHECKED - RRD	REVISED
PLOT DATE = 2/25/2014	DRAWN - B.J.F.	REVISED
	CHECKED - RRD	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG (3 OF 3)  
 STRUCTURE NO. 016-2015**

SHEET NO. 12 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	85a
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

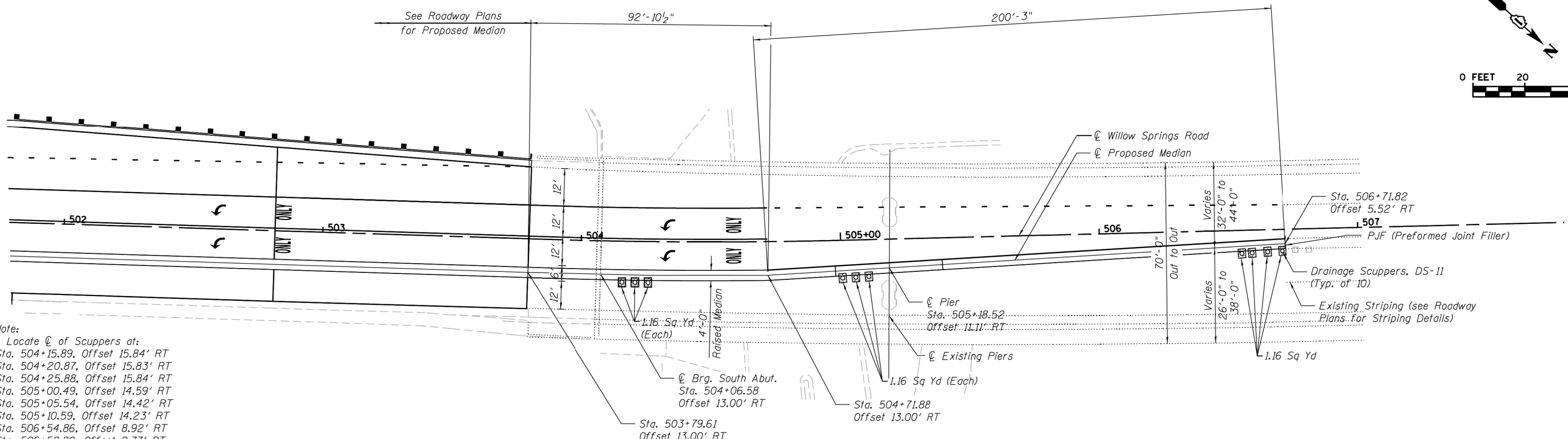
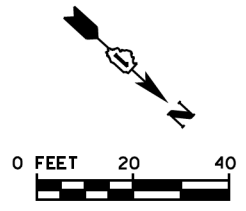


**LEGEND**

- Bridge Deck Scarification, 2<sup>3</sup>/<sub>4</sub>"
- Concrete Removal
- Deck Slab Repair (Full Depth, Type I)

**REMOVAL PLAN**

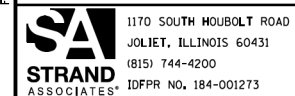
\*Included in the cost of Deck Slab Repair, Full Depth, Type I  
 \*\*Removal of existing scuppers and deck slab repair included in the cost of Deck Slab Repair, Full Depth, Type I for the proposed Drainage Scuppers, DS-11.



**PROPOSED PLAN**

Note:  
 Locate center of Scuppers at:  
 Sta. 504+15.89, Offset 15.84' RT  
 Sta. 504+20.87, Offset 15.83' RT  
 Sta. 504+25.88, Offset 15.84' RT  
 Sta. 505+00.49, Offset 14.59' RT  
 Sta. 505+05.54, Offset 14.42' RT  
 Sta. 505+10.59, Offset 14.23' RT  
 Sta. 506+54.86, Offset 8.92' RT  
 Sta. 506+58.80, Offset 8.77' RT  
 Sta. 506+64.80, Offset 8.50' RT  
 Sta. 506+70.62, Offset 8.32' RT

FILE NAME = S:\JULI6380-6391\6346\052\Media\Structure\Median\0160540-50N52-61-Genetic\Plan.dgn



USER NAME =	DESIGNED - MJD	REVISED
CHECKED - DJW	REVISED	
PLOT SCALE =	DRAWN - B.J.F.	REVISED
PLOT DATE =	CHECKED - RRD	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MEDIAN REMOVAL AND PROPOSED PLAN  
 STRUCTURE NO. 016-0540

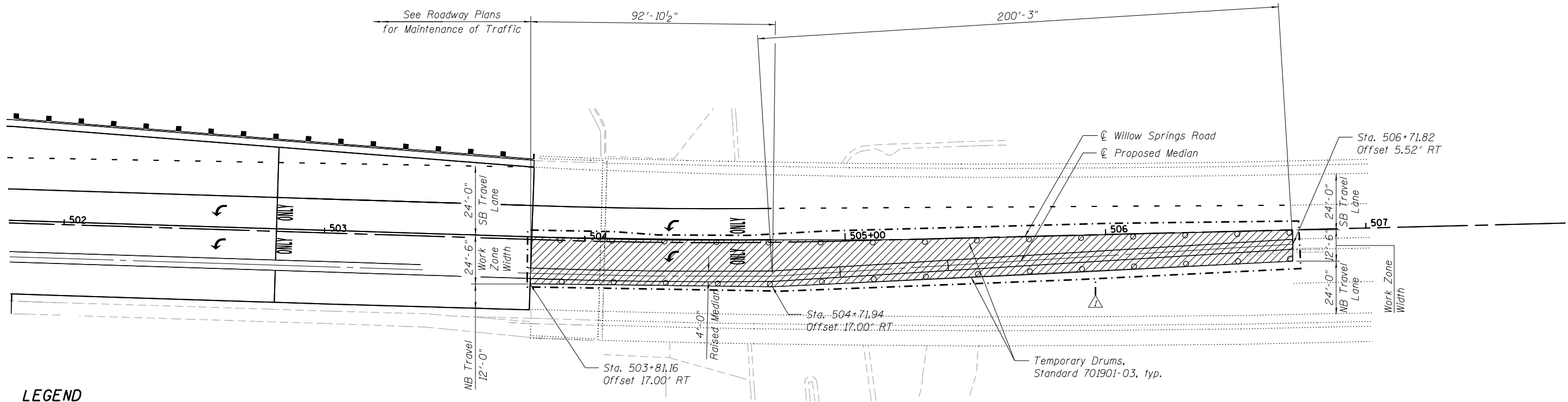
SHEET NO. 1 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	86
CONTRACT NO. 60T24				

ILLINOIS FED. AID PROJECT



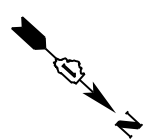
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**LEGEND**

Work Zone Area

**STAGING PLAN**



**SA STRAND ASSOCIATES**  
 1170 SOUTH HOUBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
 IDFPR NO. 184-001273

USER NAME =	DESIGNED - MJD	REVISED
	CHECKED - DJW	REVISED
PLOT SCALE =	DRAWN - BJF	REVISED
PLOT DATE =	CHECKED - RRD	REVISED

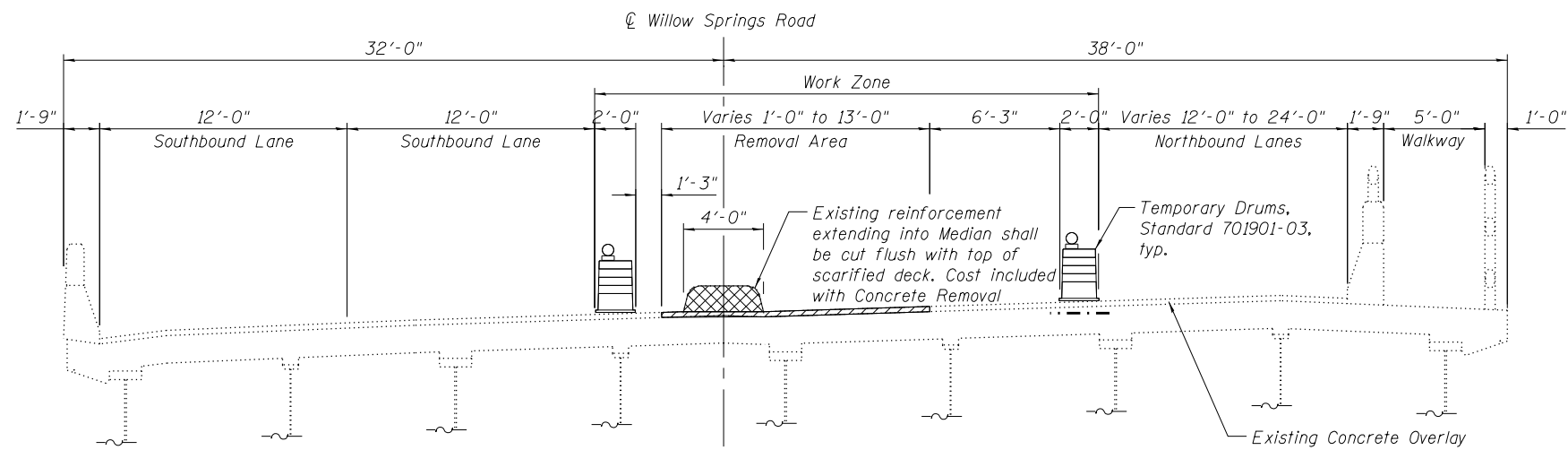
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MEDIAN STAGE CONSTRUCTION DETAILS (1 OF 2)  
 STRUCTURE NO. 016-0540**

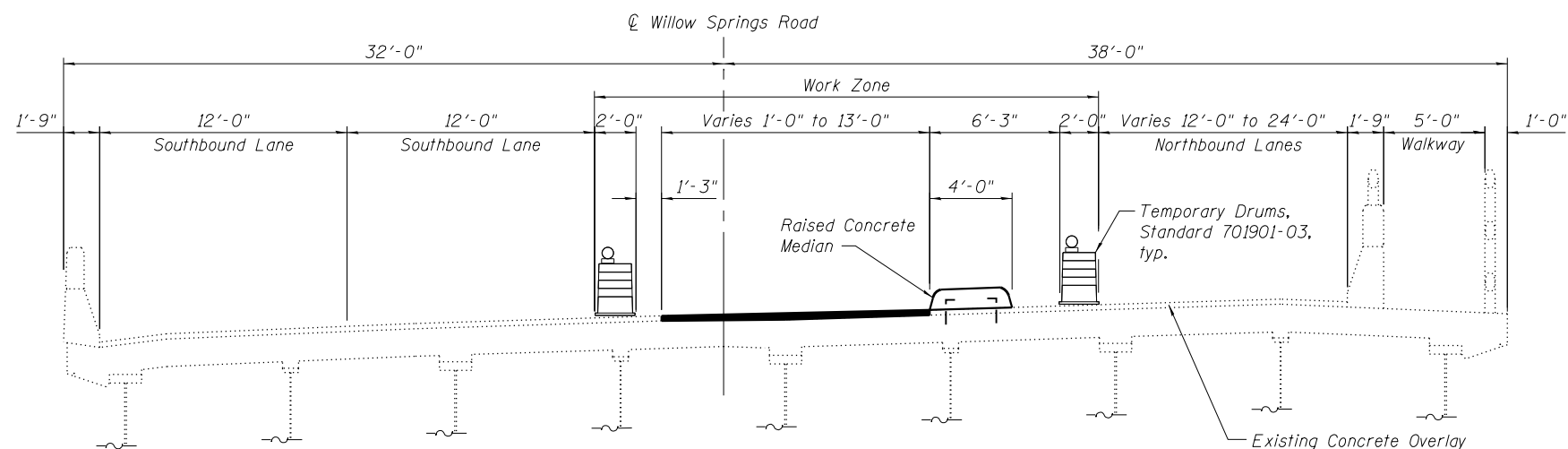
SHEET NO. 2 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	87
CONTRACT NO. 60T24				

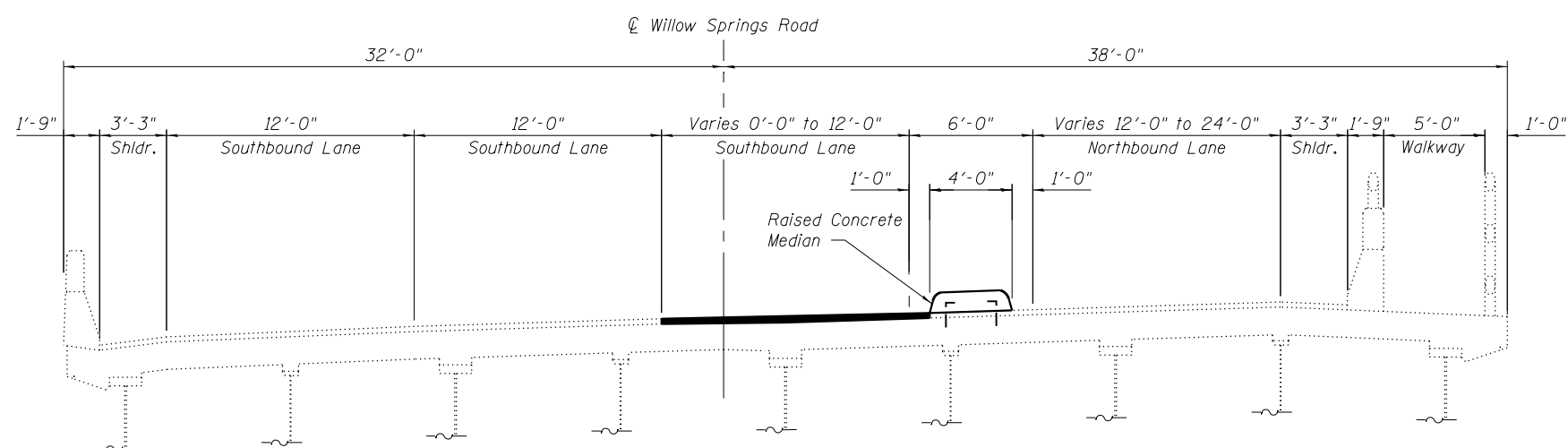
ILLINOIS FED. AID PROJECT



**STAGE REMOVAL**



**STAGE CONSTRUCTION**



**FINAL CONSTRUCTION**

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	33
Protective Shield	Sq Yd	2,320
Concrete Superstructure	Cu Yd	33
Bridge Deck Grooving	Sq Yd	268
Protective Coat	Sq Yd	469
Reinforcement Bars, Epoxy Coated	Pound	4,430
Bridge Deck Latex Concrete Overlay, 2 3/4" Inches	Sq Yd	290
Bridge Deck Scarification 2 3/4"	Sq Yd	290
Deck Slab Repair (Full Depth, Type I)	Sq Yd	13
Drainage Scuppers, DS-11	Each	10

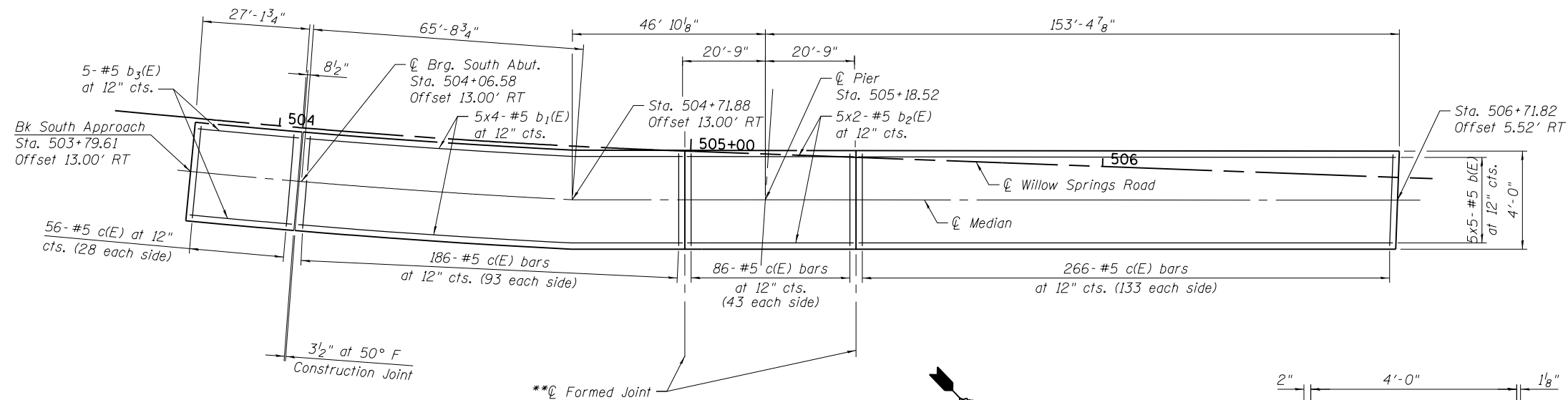
**LEGEND**

- Bridge Deck Latex Concrete Overlay, 2 3/4"
- Bridge Deck Scarification, 2 3/4"
- Concrete Removal

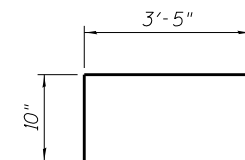
Note:  
 All cross sections are looking up station.  
 See Roadway Plans for quantity of Temporary Barrier.

FILE NAME = SA\JUL163800-6399\6346\052\Media\Structural\Median\0160540-50\MS2-03-Stageing\_Sht2.dgn

Notes:  
 Bars indicated thus 5x3-#5 etc. indicates 5 lines of bars with 3 lengths per line.  
 At construction joints, include 1/2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Standard Specifications. Cost included with Concrete Superstructure.

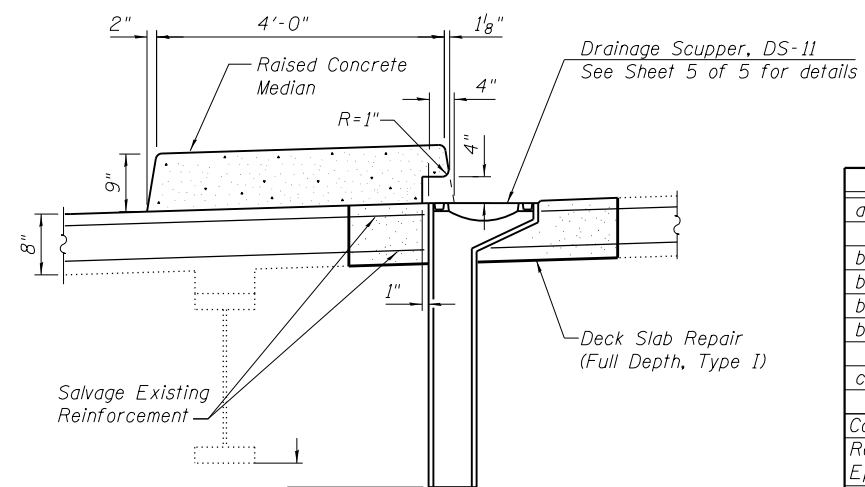


**MEDIAN PLAN**



**BAR c(E)**

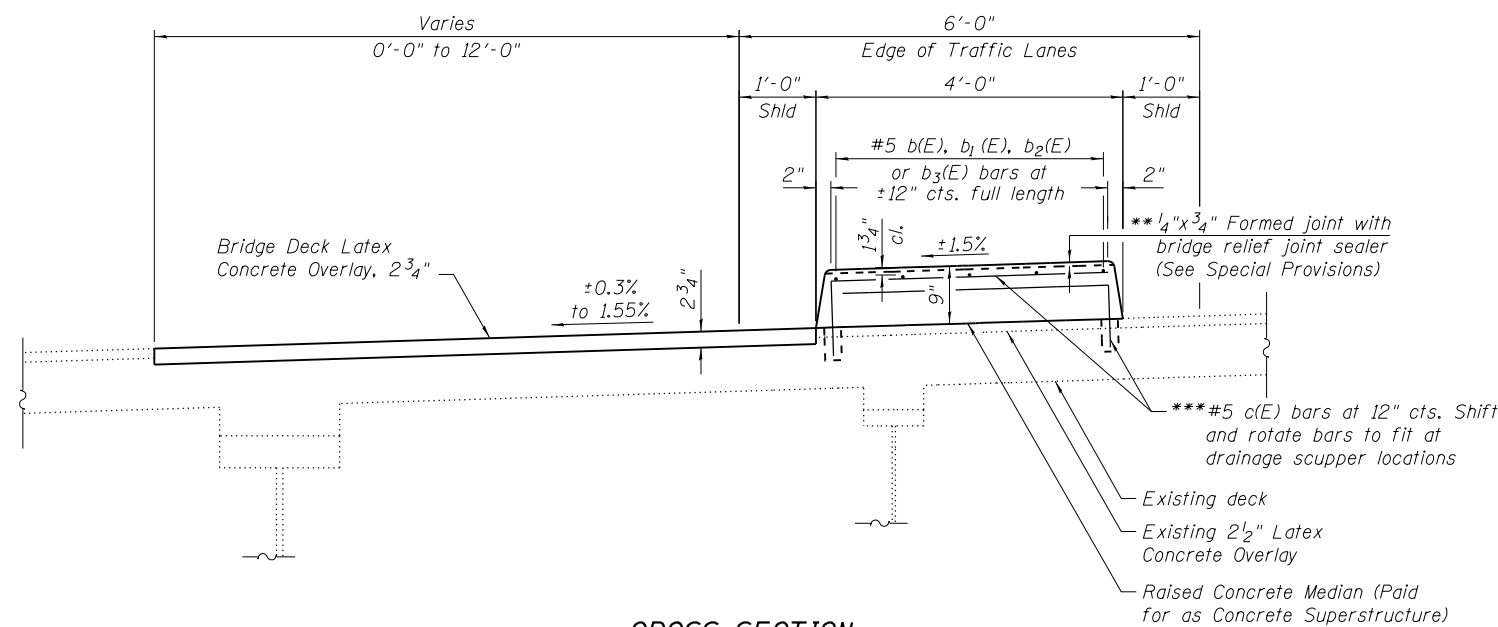
**MIN. BAR LAP**  
 #5 Bar = 3'-3"



**SECTION A-A**

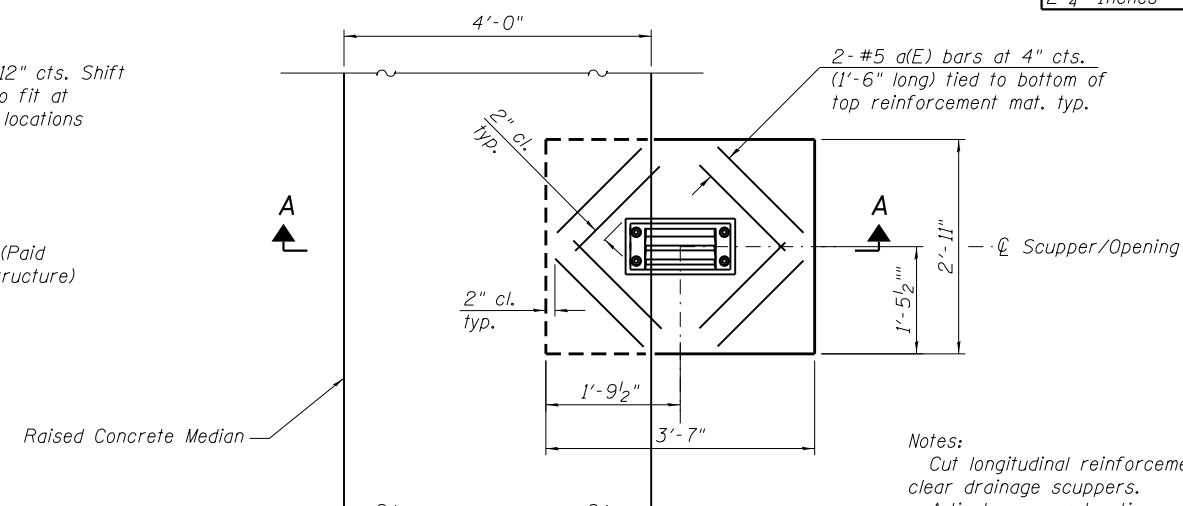
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	80	#5	1'-6"		
b(E)	25	#5	29'-0"		
b <sub>1</sub> (E)	20	#5	25'-6"		
b <sub>2</sub> (E)	10	#5	22'-6"		
b <sub>3</sub> (E)	5	#5	26'-10"		
c(E)	594	#5	4'-3"		
Concrete Superstructure				Cu Yd	33
Reinforcement Bars, Epoxy Coated				Pound	4,430
Deck Slab Repair (Full Depth, Type I)				Sq Yd	13
Bridge Deck Latex Concrete Overlay 2 3/4" Inches				Sq Yd	290



**CROSS SECTION**  
 (Looking North)

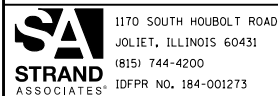
\* b(E), b<sub>1</sub>(E), b<sub>2</sub>(E) and b<sub>3</sub>(E) bars shall not pass thru construction joints. Bend b<sub>1</sub>(E) bars to fit in field.  
 \*\* Full width along joint - backer rod not required.  
 \*\*\* Drill and epoxy grout according to Section 584 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled-hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.



**PLAN**

Notes:  
 Cut longitudinal reinforcement to clear drainage scuppers.  
 Adjust scupper location as required to avoid interference with existing deck reinforcement.

FILE NAME = SA:\JUL163200-6399\6346\052\Micro\Structural\Median\0160540-50\MS2-04-Median-Details.dgn



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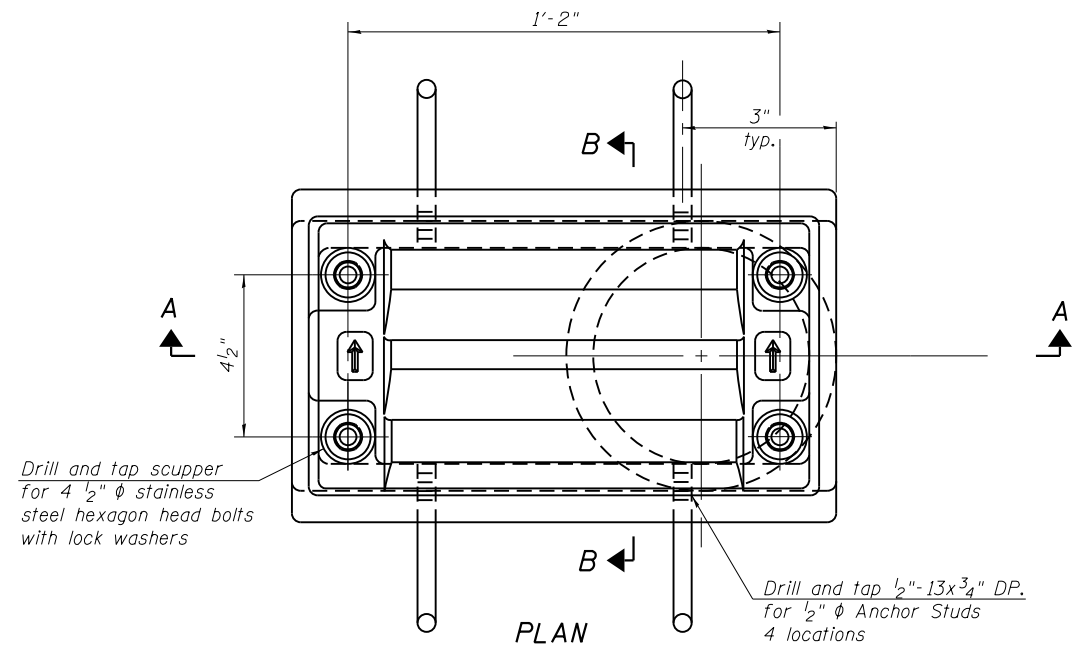
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MEDIAN DETAILS**  
**STRUCTURE NO. 016-0540**

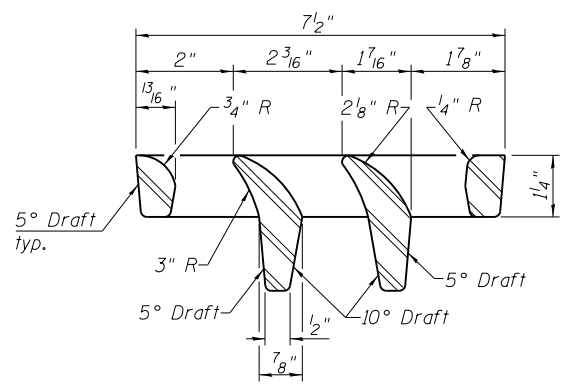
SHEET NO. 4 OF 5 SHEETS

F.A.U. RT. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60T24				

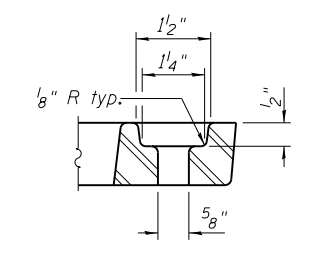
ILLINOIS FED. AID PROJECT



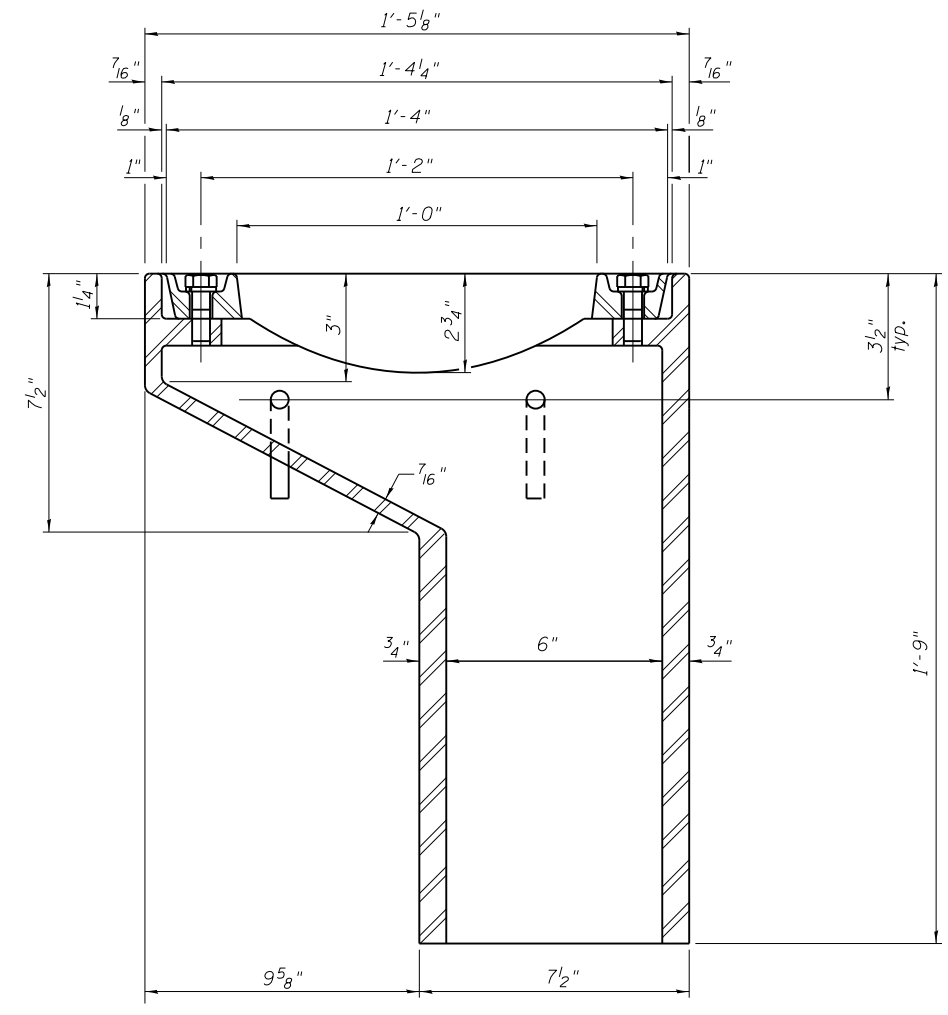
**PLAN**



**VANE GRATE DETAIL**

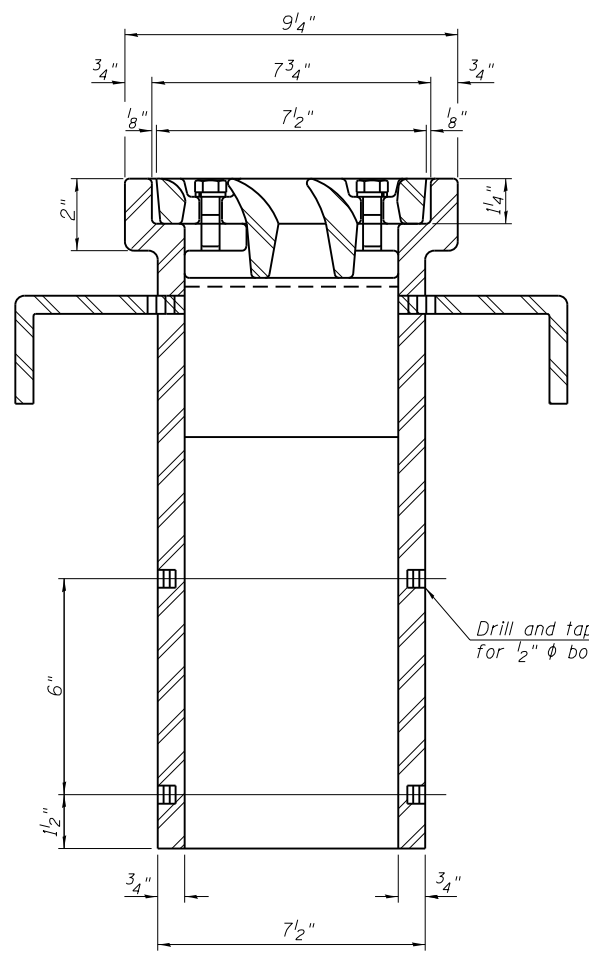


**BOLT HOLE DETAIL**

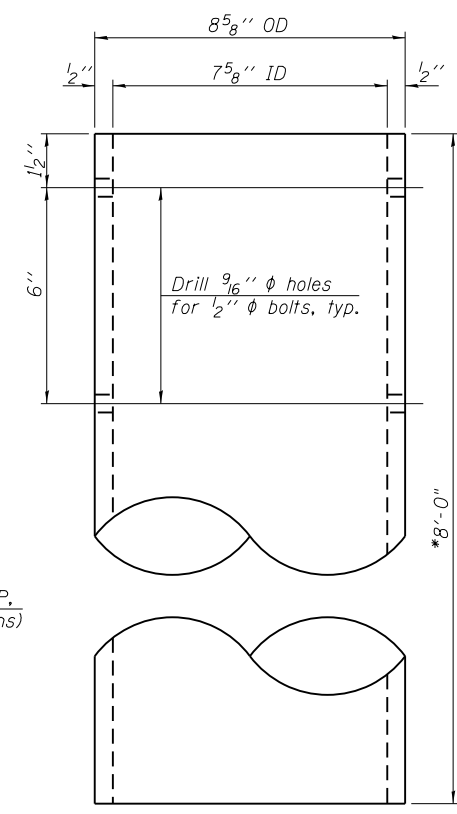


**SECTION A-A**

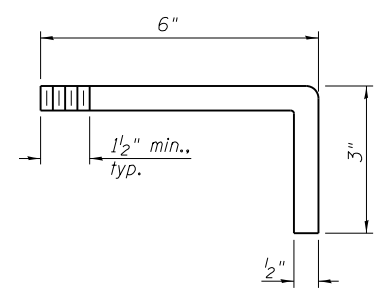
See sheet 1 of 5 for scupper location relative to median.



**SECTION B-B**



**DOWNSPOUT**



**ANCHOR STUD DETAIL**

Notes:  
\* Contractor to verify a minimum clearance of 6-inches between bottom of girder and downspout.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	10

FILE NAME = SA\101\63800-6399\6346\052\Micro\Structural\Median\0160540-50\NSZ-05-Scupper-Details.dgn

DS-11

7-1-10



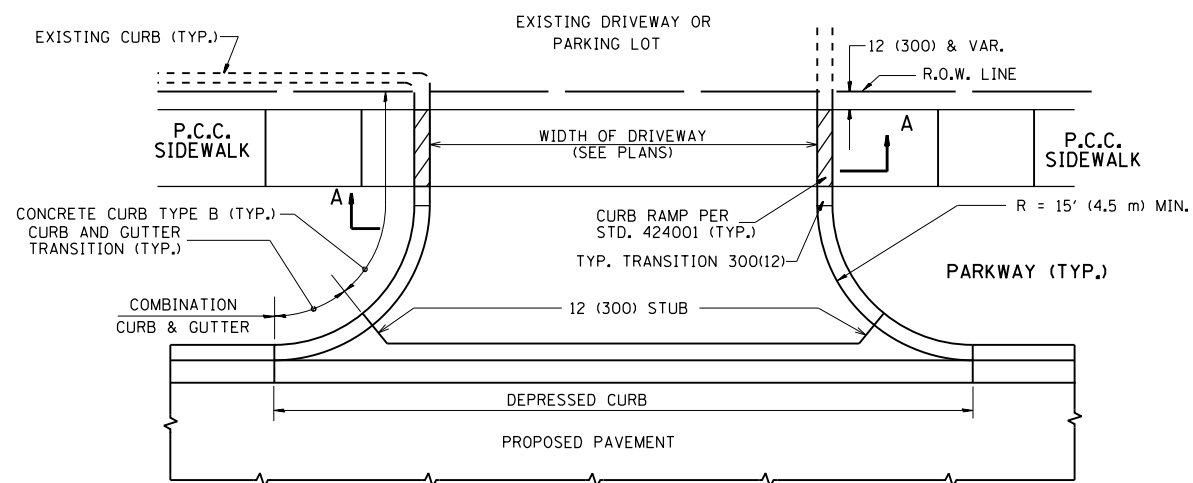
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

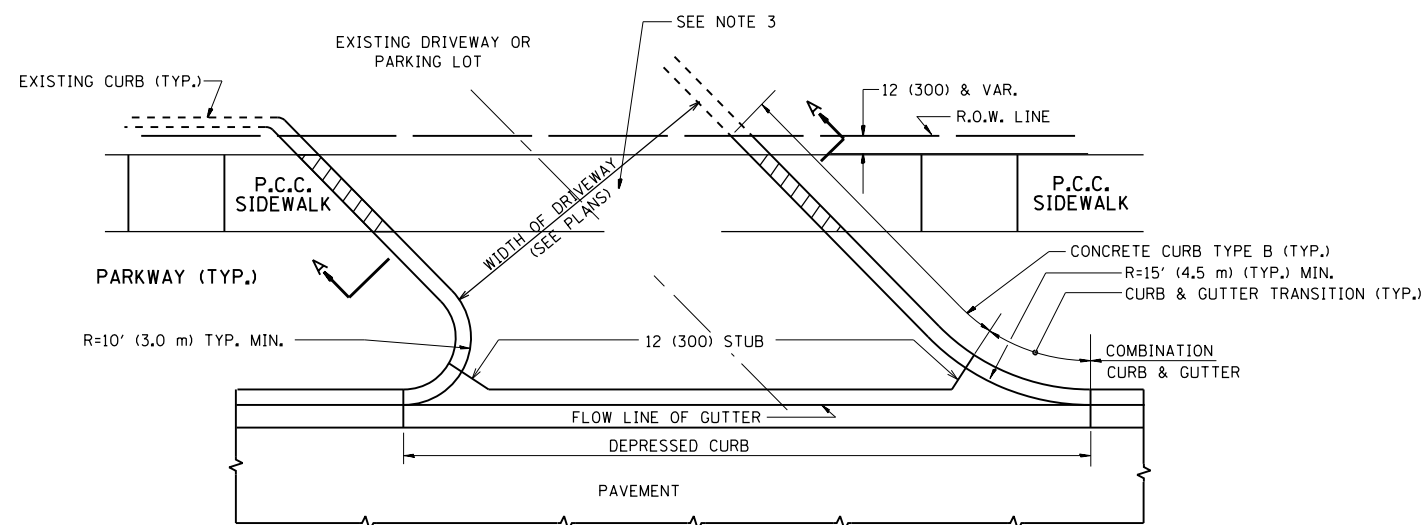
DRAINAGE SCUPPER, DS-11  
STRUCTURE NO. 016-0540

SHEET NO. 5 OF 5 SHEETS

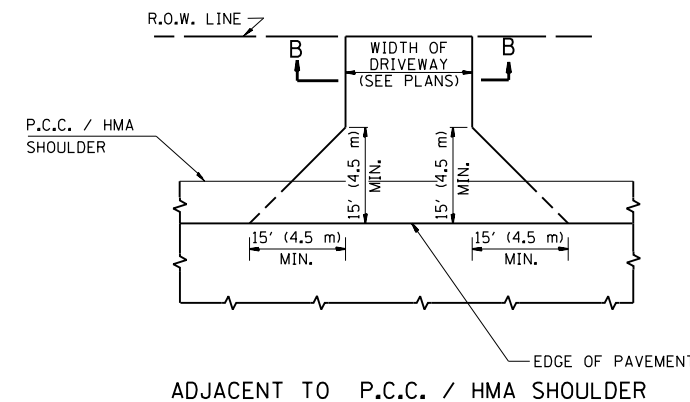
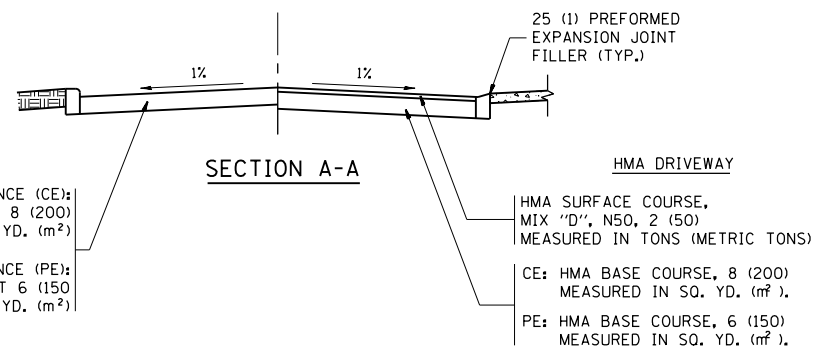
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	90
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				



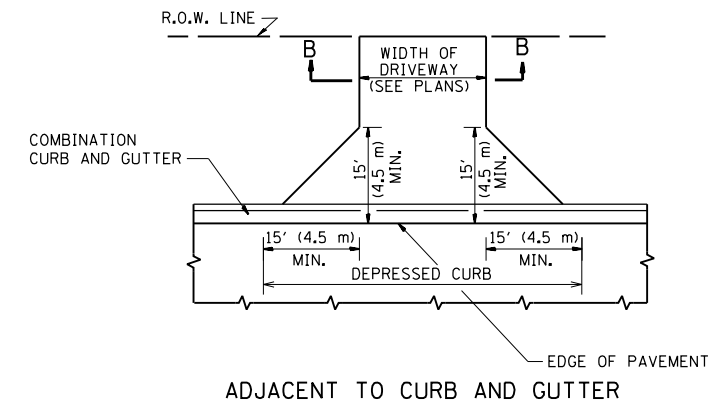
WITH CONCRETE CURB, TYPE B



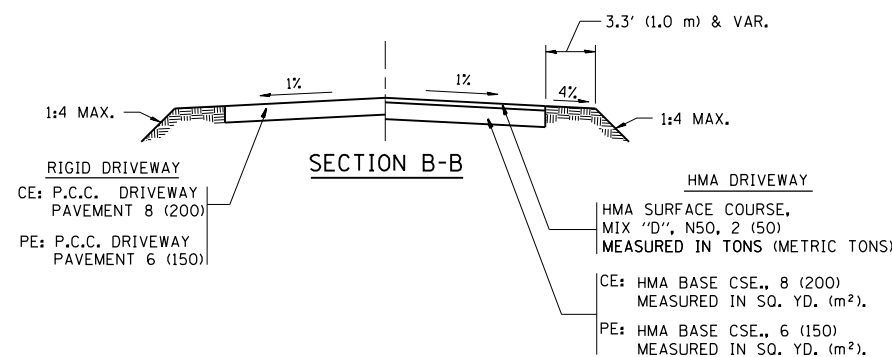
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

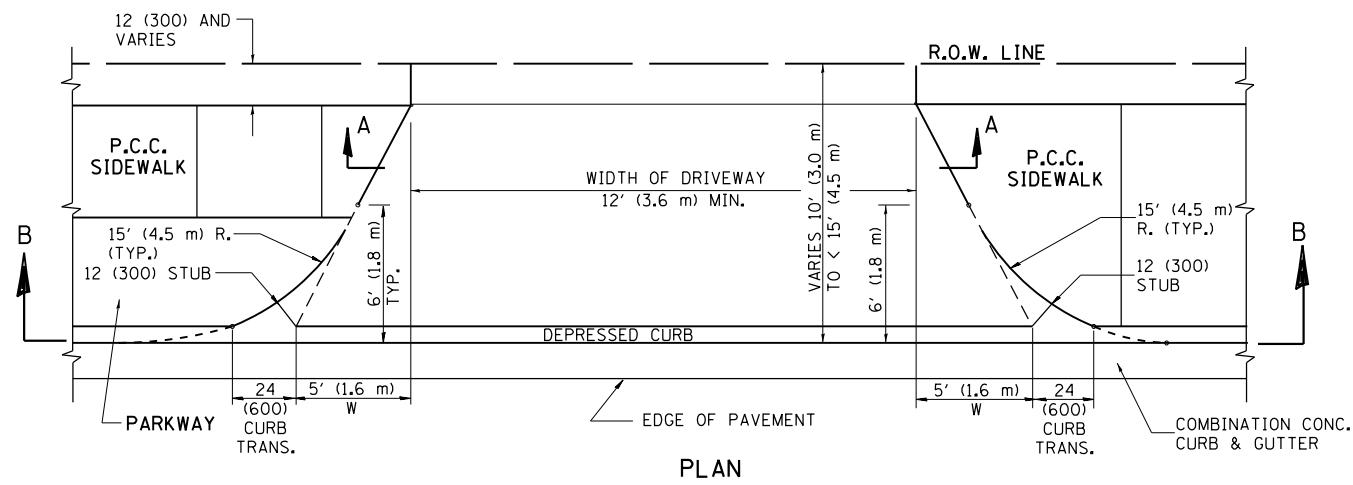
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
et:\pw\work\p\idot\paraynoal\0160753\0160753Std.dgn		DRAWN -	REVISED - R. BORO 01-01-07
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	PLOT DATE = 12/9/2013	DATE - 11-04-95	REVISED - R. BORO 09-06-11

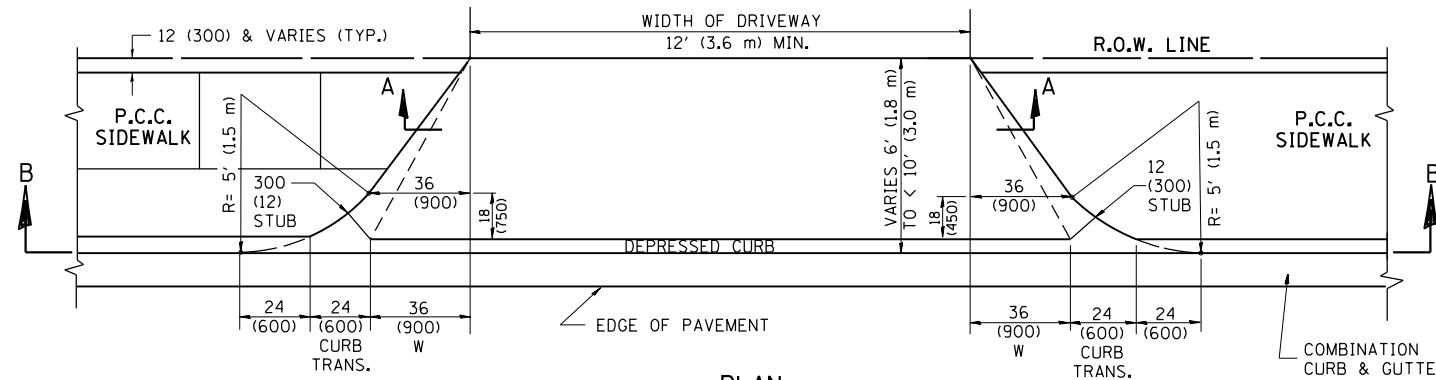
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

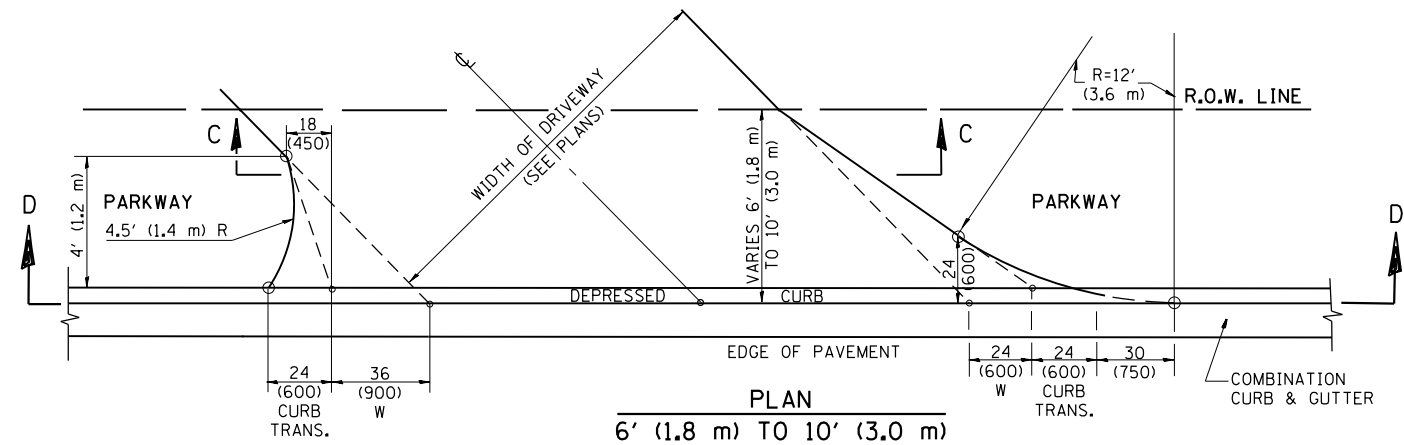
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BD0156-07 (BD-01)		CONTRACT NO. 60T24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



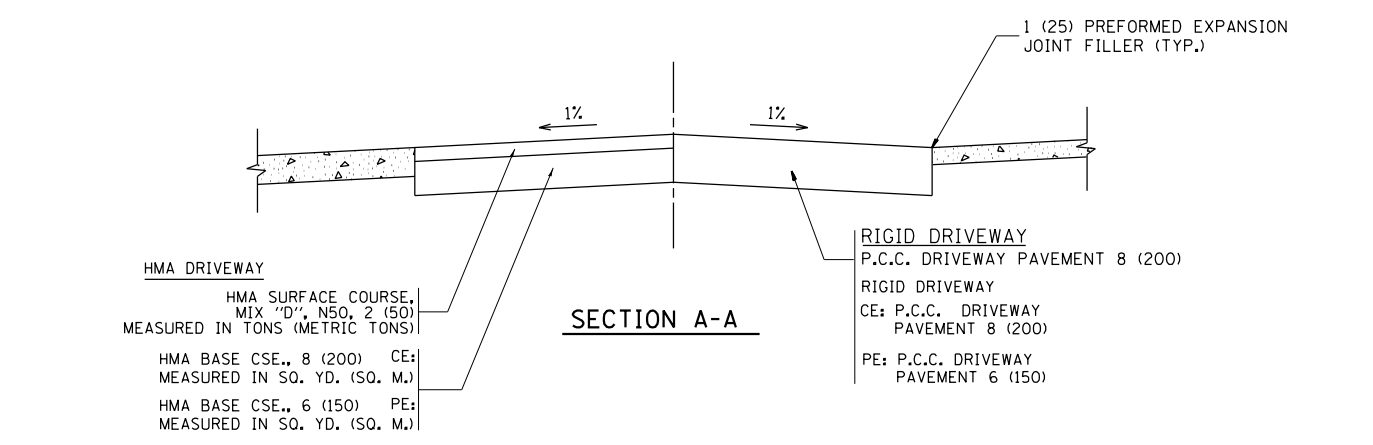
PLAN  
10' (3.0 m) TO < 15' (4.5 m)



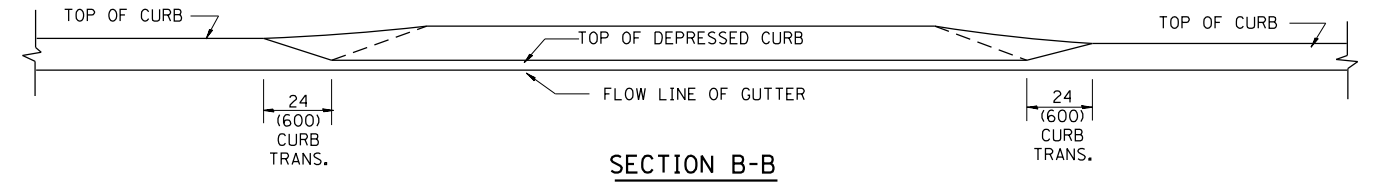
PLAN  
6' (1.8 m) TO < 10' (3.0 m)



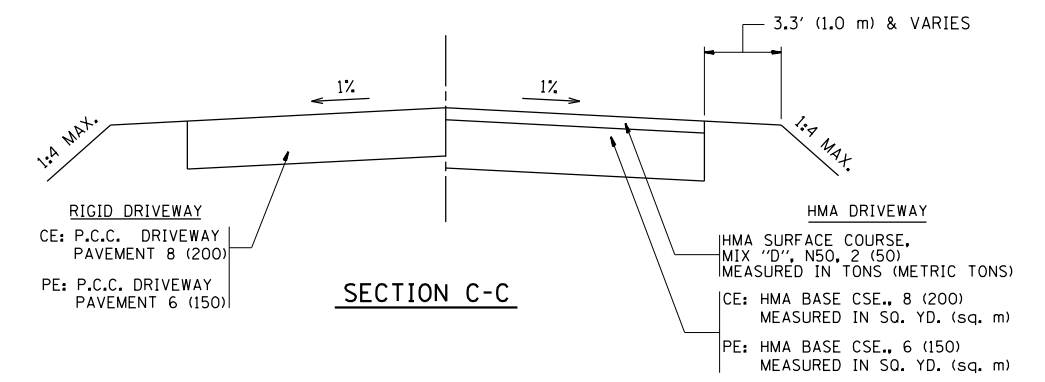
PLAN  
6' (1.8 m) TO 10' (3.0 m)



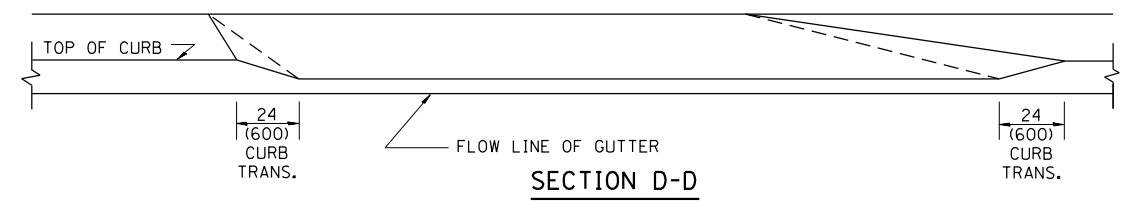
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

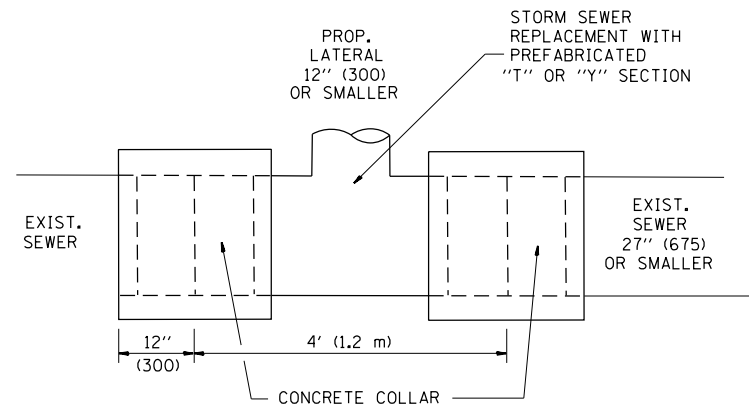
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

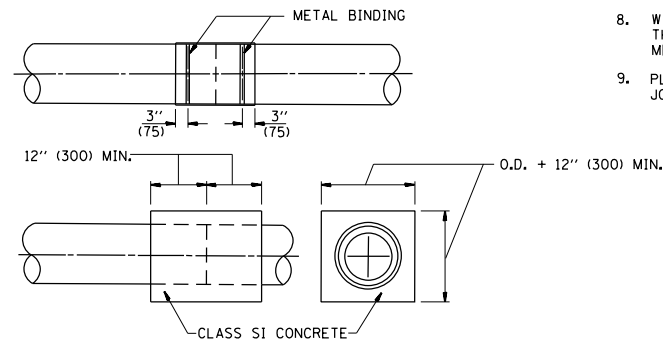
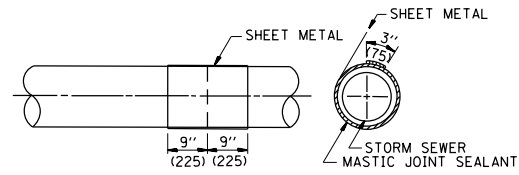
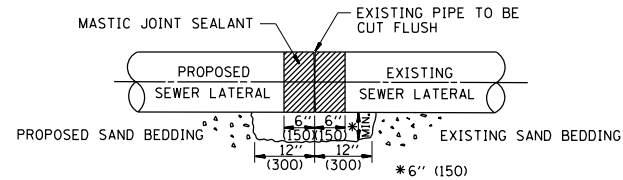
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	92
BD400-02 (BD-02)			CONTRACT NO. 60T24	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



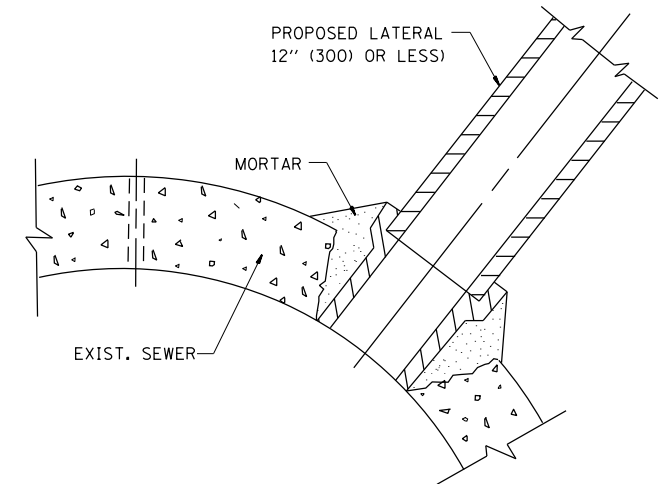
**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

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



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

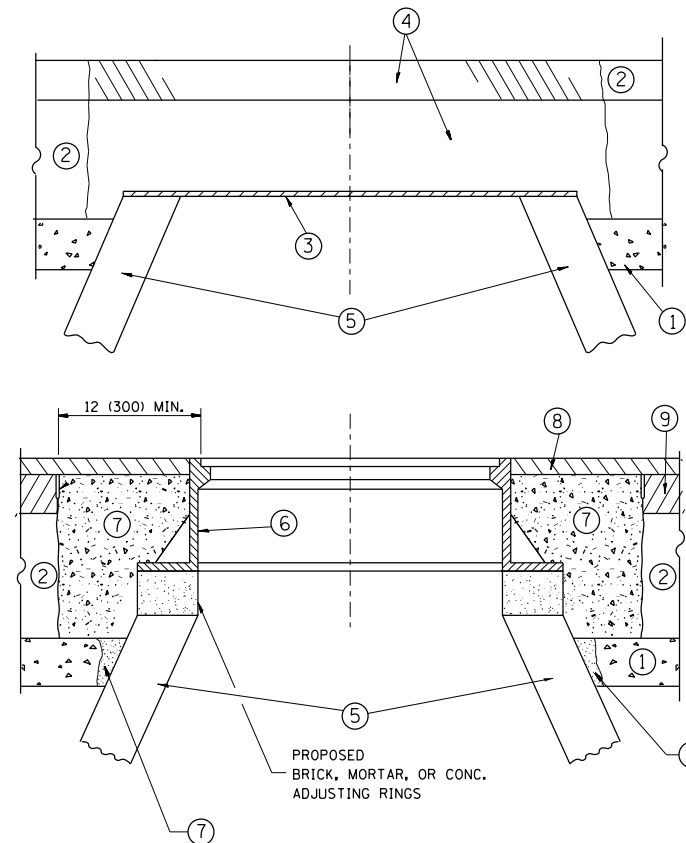
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
et:\pw\work\p1dot\paraynoal\0160753\019Std.dgn		DRAWN -	REVISED - R. SHAH 09-09-94
		CHECKED -	REVISED - R. SHAH 10-25-94
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	93
<b>BD500-01 (BD-7)</b>			<b>CONTRACT NO. 60T24</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

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

**LOCATION OF STRUCTURES:**

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

**BASIS OF PAYMENT:**

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

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

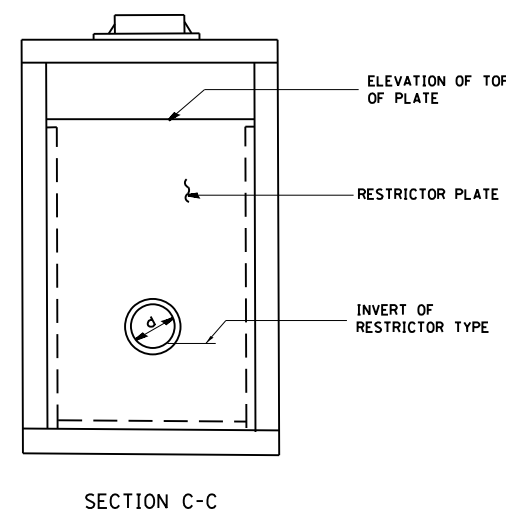
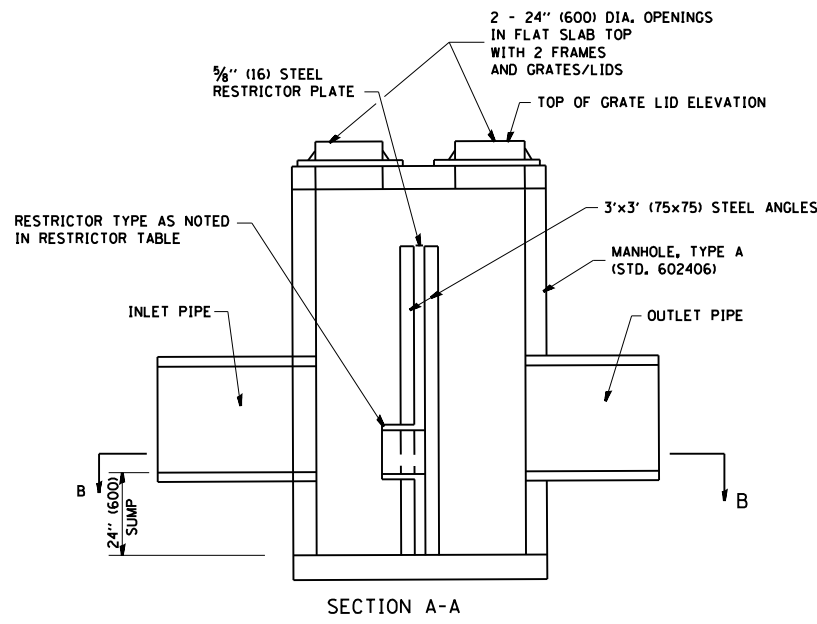
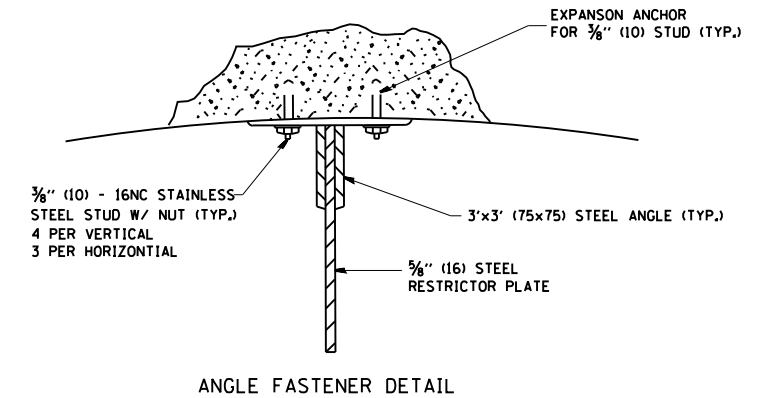
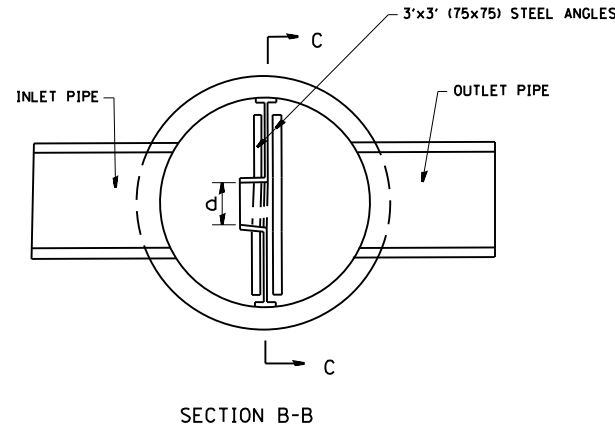
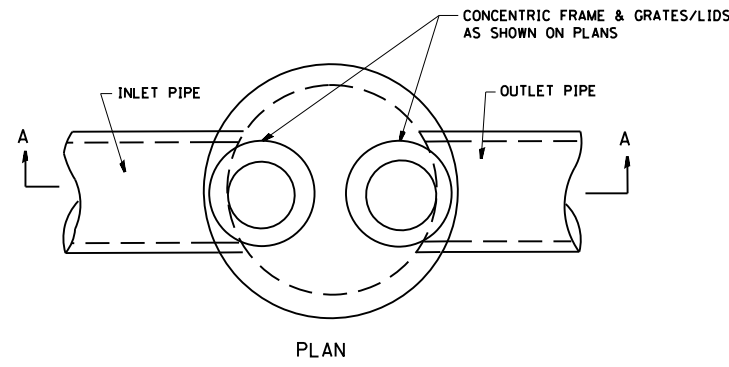
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/9/2013	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

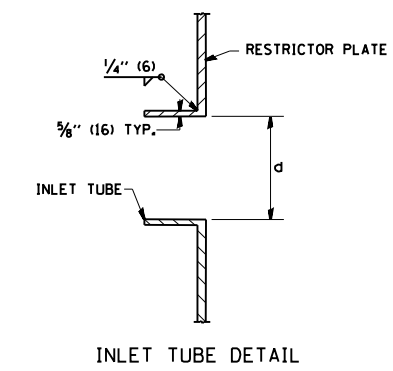
<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	94
<b>BD600-03 (BD-8)</b>		<b>CONTRACT NO. 60T24</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

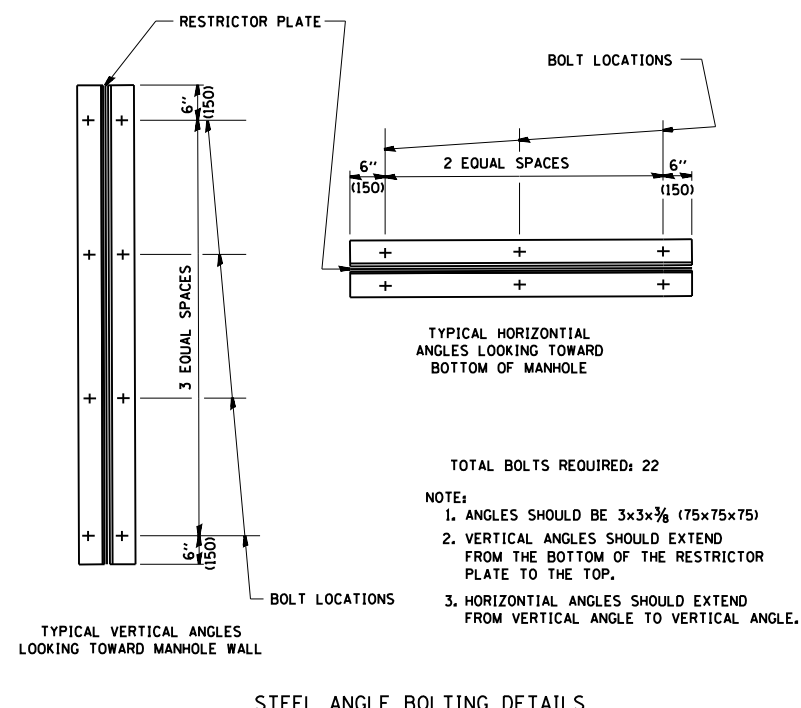




- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
  2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
  3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



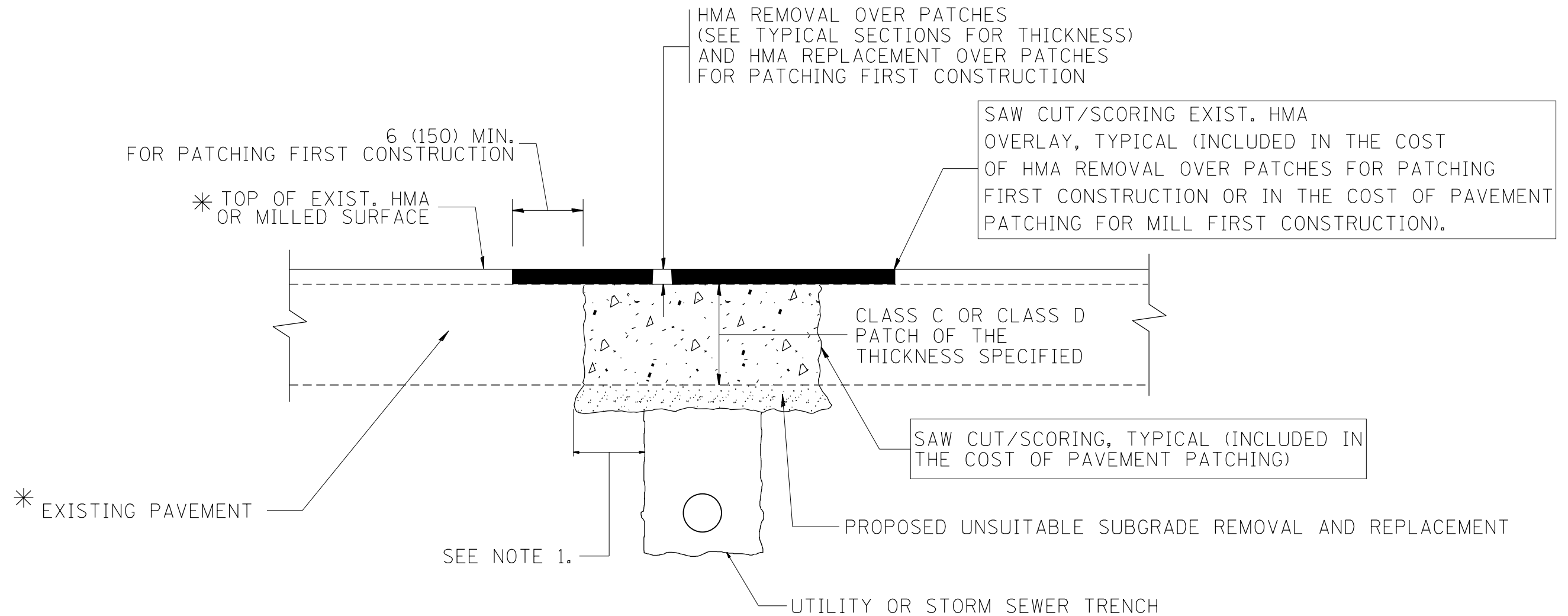
STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
500 + 68.9	6'	CL TYPE 1	TYPE 3	8.27"	608.93	611.16
204 + 40.5	6'	CL TYPE 1	TYPE 3	8.67"	602.64	605.87



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
  2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
  3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES					

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



\* 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
et:\pwork\pwork\paraynoal\0160753\0160753Std.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 12/9/2013	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	96
<b>BD400-04 (BD-22)</b>			<b>CONTRACT NO. 60T24</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

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".

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \*\*

18" (450) MAX.

T/2 \*

3" (75) MIN.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

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

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

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

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

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

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

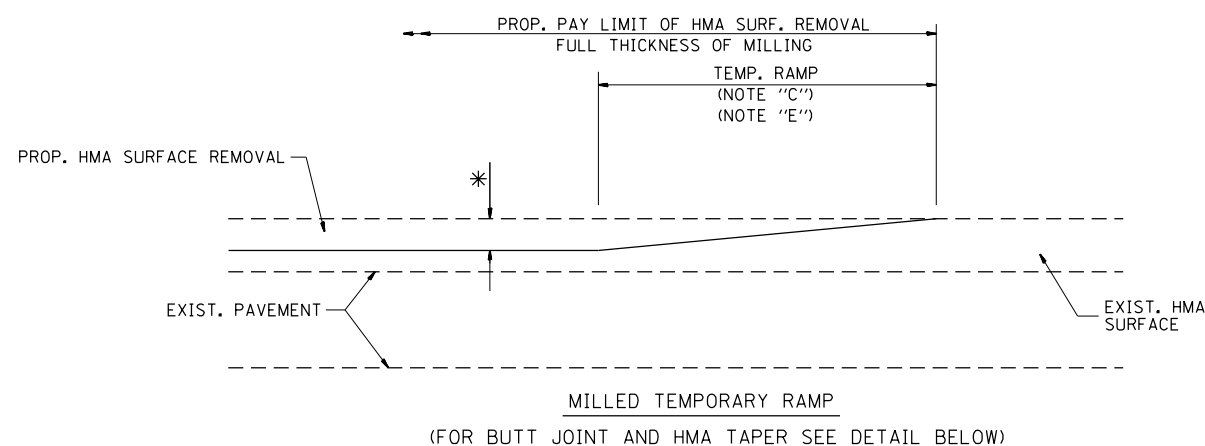
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

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

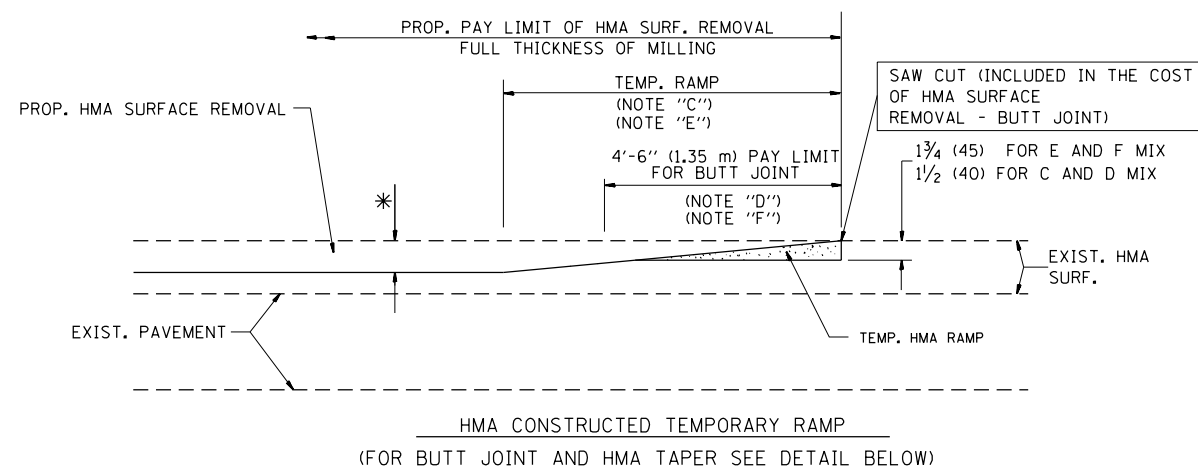
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	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.
et:\pw\work\p\idot\paraynoal\0160753\01stgStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01					3565	B-N-5	COOK	129	97
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 12-15-09			<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 60T24</b>					
PLOT DATE = 12/9/2013	DATE - 03-11-94				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

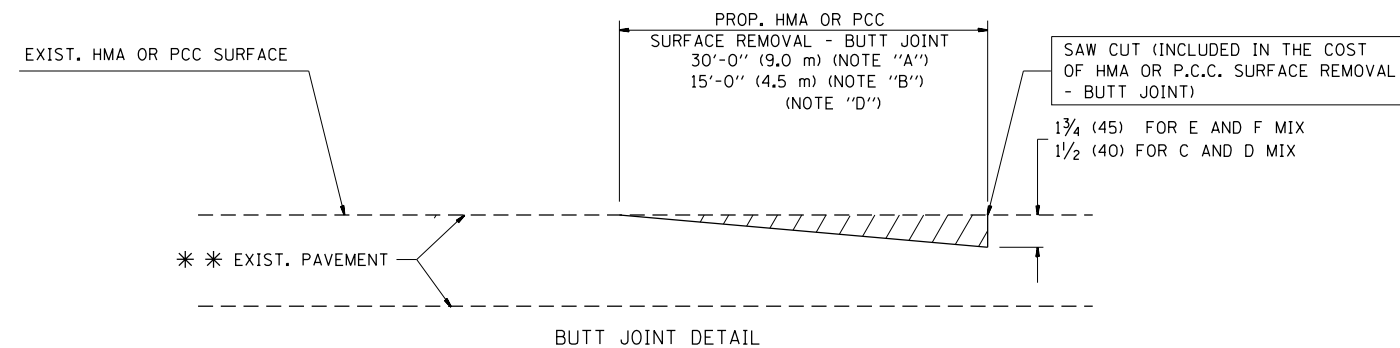


**OPTION 1**

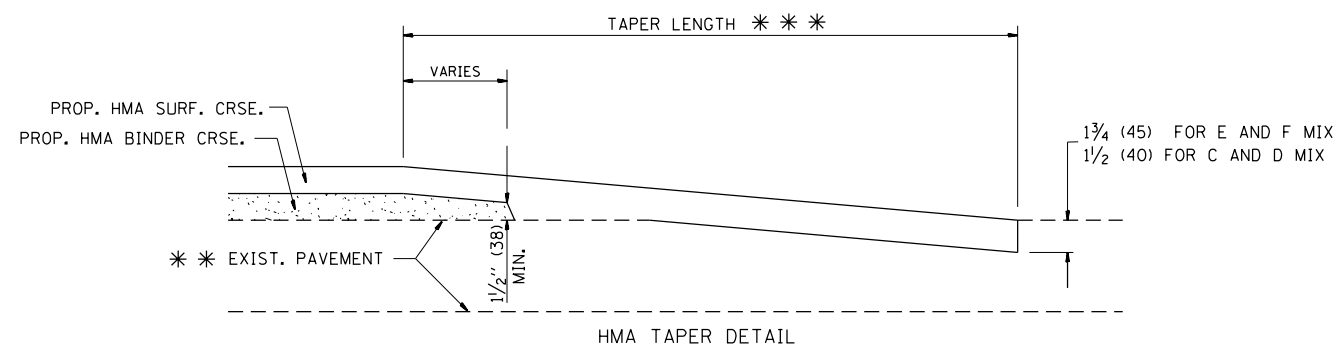


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

**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".

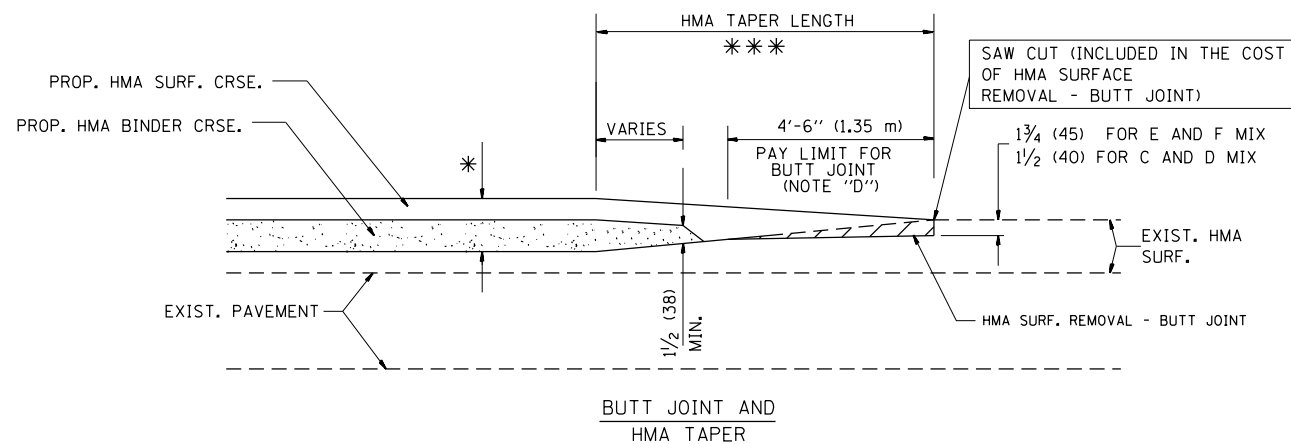
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

\*\*\* 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**

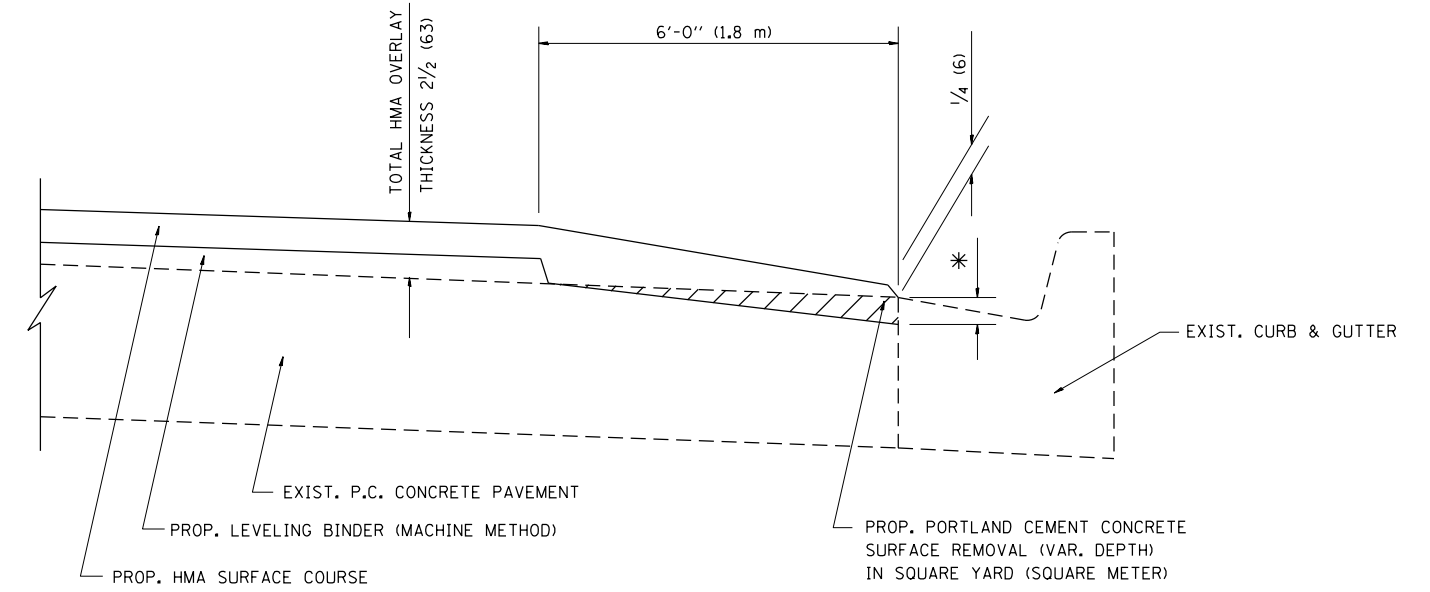
FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
et:\pw\work\p\idot\paraynoal\0160753\01stgStd.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 12/9/2013	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**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.
3565	B-N-5	COOK	129	98
BD400-05		BD32	CONTRACT NO. 60T24	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

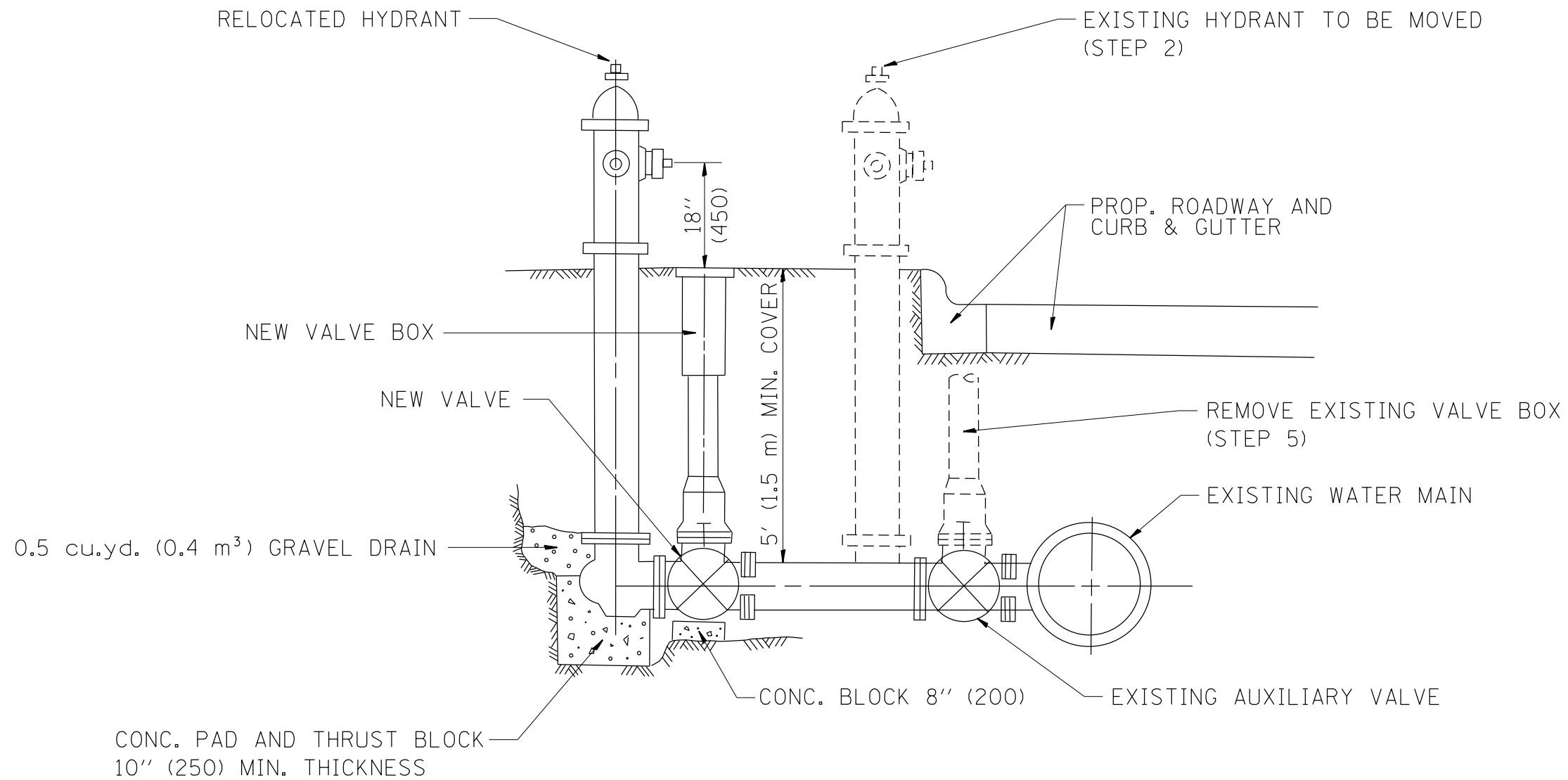
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
c:\pwork\work\pwork\paraynoal\0160753\0160753.dgn		DRAWN - JIS	REVISED - A. ABBAS 05-05-99
	PLOT SCALE = 100.0000' / 1in.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
	PLOT DATE = 12/9/2013	DATE - 09-10-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HMA TAPER AT EDGE OF P.C.C. PAVEMENT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	99
BD400-06 (BD33)		CONTRACT NO. 60T24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - R. SHAH 09-09-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FIRE HYDRANT TO BE MOVED</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\paraynoal\0160753\0160753Std.dgn		DRAWN -	REVISED - R. SHAH 10-25-94		3565	B-N-5	COOK	129	100			
	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -		<b>BD-36</b>			<b>CONTRACT NO. 60T24</b>				
	PLOT DATE = 12/9/2013	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			