

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

03-09-2018 LETTING ITEM 120

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

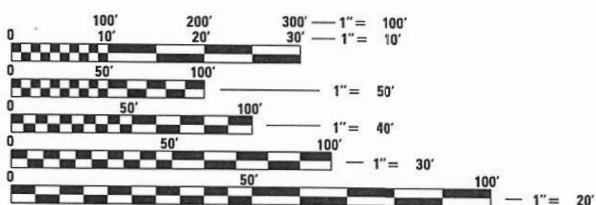
FAU ROUTE 1709 (RAVINIA AVENUE)
AT 147TH STREET
INTERSECTION IMPROVEMENT
SECTION 12-00069-00-CH
PROJECT DET3(352)
VILLAGE OF ORLAND PARK
COOK COUNTY

DESIGN DESIGNATION

RAVINIA AVENUE: 9,200 (16) MAJOR COLLECTOR 0.215 (FD-20)
147TH STREET: 3,067 (16) LOCAL ROAD 0.051 (FD-20)

TRAFFIC DATA

RAVINIA AVENUE:
POSTED SPEED LIMIT = 30 MPH
DESIGN SPEED LIMIT = 35 MPH
2014 ADT = 9,000
2040 ADT = 12,000
147TH STREET:
POSTED SPEED LIMIT = 25 MPH
DESIGN SPEED LIMIT = 30 MPH
2014 ADT = 3,000
2040 ADT = 4,000

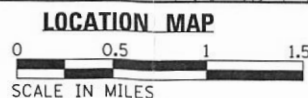
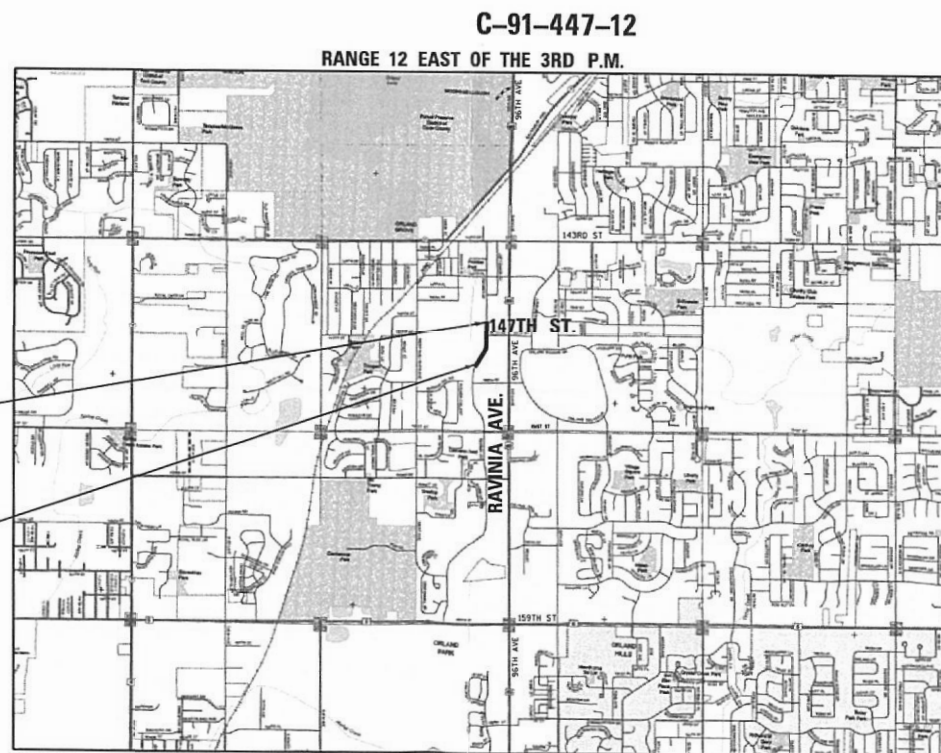


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENDS
STA 29 + 30.14

PROJECT BEGINS
STA 18 + 12.00



GROSS LENGTH = 1118.14 FT. = 0.212 MILE
NET LENGTH = 1118.14 FT. = 0.212 MILE

F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 1
		ILLINOIS	CONTRACT NO. 61E48	



LOCATION OF SECTION INDICATED THUS: - ■ -

STRAND ASSOCIATES, INC.
ANDREW J. RUNDE, P.E.
THIS STAMP APPLIES TO
DRAWINGS NO. 90-93

DATE: 11/27/17 EXP: 11/30/19

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

STRAND ASSOCIATES, INC.
MARC A. GRIGAS, P.E.

DATE: 11/29/17 EXP: 11/30/19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved: 11/29/17
Sean Marquez
Village of Orland Park, Senior Project Engineer

Passed: DECEMBER 12, 2017
Christopher Holt
District Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: DECEMBER 12, 2017
Andrew J. Runge
Deputy Director of Highways, Region 7 Engineer

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLER, P.E. 847-705-4406, SCHAUMBURG, IL

CONTRACT NO. 61E48

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001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424026-02	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602006-04	CATCH BASIN, TYPE B
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-04	MANHOLE, TYPE A
602406-08	MANHOLE, TYPE A, 6' (1.8 M) DIAMETER
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604031-03	GRATE TYPE 7
604036-03	GRATE TYPE 8
604051-04	FRAME AND GRATE, TYPE 11
604056-04	FRAME AND GRATE, TYPE 11V
604091-03	FRAME AND GRATE, TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-08	URBAN LANE CLOSURE, 2L, 2W, WITH BI-DIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTI-LANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTI-LANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
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729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT

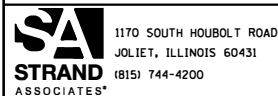
HIGHWAY STANDARDS CONT.

780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
825026-03	LIGHTING CONTROLLER BASE MOUNTED, 480V
838001-01	BREAKAWAY DEVICES

DISTRICT ONE STANDARD DETAILS

BD-01	DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W AND FACE OF CURB & EDGE OF SHOULDER GREATER OR EQUAL TO 15' (4.5 M)
BD-02	DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W AND FACE OF CURB GREATER THAN 15' (4.5 M)
BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
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BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINTS AND HMA TAPER
BE-200	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP, (DUAL)(4 SHEETS)
BE-300	LIGHTPOLE FOUNDATION 30' TO 35' M.H. 1 1/2" BOLT CIRCLE
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISCELLANEOUS ELECTRICAL DETAILS, SHEET A - (CABLE SPLICE, POLE WIRING, TRENCH DETAIL)
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
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FILE NAME = SA:\JL\1520--1595\1555\004\Micros\CAD\Sheets\0112345-ht-idx.dgn



USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / 1in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	2
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" AS PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT.
2. THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL ALSO GOVERN THE PROJECT. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS DESIGNATED BY THE ENGINEER.
3. CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT ALL EXCAVATION AND/OR TRENCHING OPERATIONS SO THAT SPRINKLER SYSTEMS, CURBS, LOCAL SERVICES, BUFFALO BOXES, VALVES, MANHOLES, INLETS, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER.
4. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. IF THE ENGINEER SO DIRECTS THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATED MATERIAL AND DEBRIS OFF THE SITE AS WORK PROGRESSES WITH NO ADDITIONAL COMPENSATION ALLOWED. THE TEMPORARY STOCKPILING OF THIS MATERIAL ON THE PROJECT SITE WILL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL SUBMIT IN WRITING A "SCHEDULE OF OPERATIONS" SHOWING APPROXIMATE DATES FOR COMMENCING AND COMPLETING VARIOUS PHASES OF CONSTRUCTION INCLUDED IN THE CONTRACT PRIOR TO COMMENCING ANY CONSTRUCTION UNDER THIS CONTRACT. THE SCHEDULE SHALL HAVE THE APPROVAL OF THE ENGINEER AND THE DATE FOR STARTING SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE ENGINEER.
6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AND ALL OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.
7. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
9. THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM AND IS RESPONSIBLE FOR ANY DAMAGE CAUSED.
10. THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
12. THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
13. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS.
14. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION.
15. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL COMMERCIAL PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. THIS MAY REQUIRE STAGE CONSTRUCTING EACH ENTRANCE ONE HALF AT A TIME.
17. ALL 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.
18. LAYOUT AND STAKING FOR ALL CONSTRUCTION OPERATIONS SHALL BE PROVIDED BY THE CONTRACTOR.
19. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THEM. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE.
20. DRAINAGE STRUCTURE GRADES SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS. DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. 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 BID PRICE FOR THE WORK. ANY ADJUSTMENT SHALL BE AS DIRECTED BY THE ENGINEER. PROPOSED RIM ELEVATIONS SHOWN FOR DRAINAGE STRUCTURES IN THE GUTTER REFERENCE THE PROPOSED EDGE OF PAVEMENT ELEVATION.
21. UNLESS OTHERWISE NOTED, LOCATIONS SHOWN ON THE PLANS ARE TO THE CENTER OF GUTTER FOR GRATES IN THE CURB AND GUTTER AND TO THE CENTER OF THE GRATE/LID FOR ALL OTHER STRUCTURES. FLAT TOPS AND CONES ARE TO BE TURNED SO THAT THE FRAME IS CLOSEST TO THE CENTER LINE OF THE ROAD, UNLESS OTHERWISE NOTED ON THE STRUCTURE IN THE PLANS. ALL FLAT TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.
22. UNDERDRAIN MINIMUM SLOPES SHALL BE 0.20% AND HAVE BEEN IDENTIFIED ON THE DRAINAGE PLAN AND PROFILE SHEETS. TRANSVERSE UNDERDRAINS SHALL MATCH THE CROSS SLOPE OF THE ROADWAY SURFACE. PIPE UNDERDRAINS SHALL BE INSTALLED 12 INCHES BELOW THE BOTTOM OF THE AGGREGATE SUBGRADE IMPROVEMENT.
23. THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.
24. QUANTITIES AND ASSOCIATED PAY ITEMS FOR EARTHWORK, LANDSCAPE RESTORATION, AND EROSION CONTROL WERE DEVELOPED ACCORDING TO THE NECESSARY GRADING FOR THE PROJECT PROPOSED AS SHOWN IN THE CROSS SECTIONS. AREAS DISTURBED BEYOND THE SLOPE INTERCEPTS SHALL HAVE EROSION CONTROL AND LANDSCAPING RESTORATION ACCORDING TO THE ADJACENT REQUIREMENTS SHOWN IN THE PLANS. THE GROUND SHALL BE GRADED AND RESTORED TO MATCH THE EXISTING PRE-CONSTRUCTION CONDITIONS.
25. THE HEIGHT AND WIDTH OF ALL PROPOSED COMBINATION CURB AND GUTTER, TYPE B-6.12 SHALL BE TRANSITIONED OVER 5' TO MATCH EXISTING CURB AND GUTTER.

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = BillP
MODEL NAME = Default
PLOT SCALE = 2.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

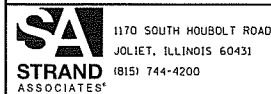
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	3
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

FILE NAME = S:\JUL151800--1899\1555\1804\Micros\ACADD_Sheets\0112345-akt-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
+ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	307	307		
+ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18		
+ 20101000	TEMPORARY FENCE	FOOT	246	246		
20200100	EARTH EXCAVATION	CU YD	4,510	4,510		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	190	190		
20400800	FURNISHED EXCAVATION	CU YD	55	55		
20800150	TRENCH BACKFILL	CU YD	630	630		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	600	600		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7,528	7,528		
21101665	TOPSOIL FURNISH AND PLACE, 18"	SQ YD	394	394		
21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	282	282		
+ 25000210	SEEDING, CLASS 2A	ACRE	1	1		
+ 25200110	SODDING, SALT TOLERANT	SQ YD	3,399	3,399		
+ 25200200	SUPPLEMENTAL WATERING	UNIT	98	98		

+ SPECIALTY ITEM



USER NAME = B.LJP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	4
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FILE NAME = S:\JOL\1500--1594\1555\004\Micros\CADD_Sheets\DI12345-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,200	1,200		
28000400	PERIMETER EROSION BARRIER	FOOT	1,033	1,033		
28000500	INLET AND PIPE PROTECTION	EACH	3	3		
28000510	INLET FILTERS	EACH	63	63		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	7,528	7,528		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	188	188		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6,378	6,378		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,639	1,639		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	438	438		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	22	22		
40600990	TEMPORARY RAMP	SQ YD	180	180		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,289	1,289		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	721	721		

+ SPECIALTY ITEM



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
8151 744-4200

USER NAME = B.IIP
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

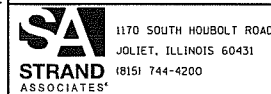
SCALE: N/A SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	5
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FILE NAME = S:\JOLI\1500--1594\1555\004\Micros\CADD_Sheets\DI12345-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	21,389	21,389		
42400800	DETECTABLE WARNINGS	SQ FT	310	310		
44000100	PAVEMENT REMOVAL	SO YD	7,677	7,677		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	1,159	1,159		
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	555	555		
44000300	CURB REMOVAL	FOOT	120	120		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4,319	4,319		
44000600	SIDEWALK REMOVAL	SO FT	7,027	7,027		
44201701	CLASS D PATCHES, TYPE I, 5 INCH	SO YD	1,615	1,615		
50800105	REINFORCEMENT BARS	POUND	624	624		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	343	343		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	319	319		
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	140	140		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	53	53		

+ SPECIALTY ITEM



USER NAME = B.IJP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

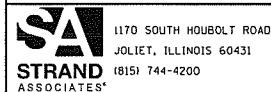
SCALE: N/A SHEET 3 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	6
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
+ 56106500	ADJUSTING WATER MAIN 10"	FOOT	30		30	
+ 56200300	WATER SERVICE LINE 1"	FOOT	480		480	
60108106	PIPE UNDERDRAINS, TYPE 1, 6"	FOOT	139		139	
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1		1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5		5	
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	3		3	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3		3	
60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	18		18	
60240312	INLETS, TYPE B, TYPE 11V FRAME AND GRATE	EACH	2		2	
60600605	CONCRETE CURB, TYPE B	FOOT	211		211	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	4,877		4,877	
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	52		52	
60611811	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)	FOOT	282		282	

+ SPECIALTY ITEM

FILE NAME = S:\JUL\1568--1599\1555\04\Micro\CA00_Sheets\012345-shr-500.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B.IIP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	7
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FILE NAME : S:\JOL\1500--1599\1555\004\Micros\CADD\Sheets\DI12145-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
67100100	MOBILIZATION	L SUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	242	242		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	282	282		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17,310	17,310		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2,989	2,989		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	214	214		
70300275	TEMPORARY PAVEMENT MARKING - LINE 18"	FOOT	108	108		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	198	198		
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3,130	3,130		
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	234	234		
+ 72000100	SIGN PANEL - TYPE 1	SO FT	329	329		
+ 72000200	SIGN PANEL - TYPE 2	SO FT	51	51		
+ 72000300	SIGN PANEL - TYPE 3	SO FT	253	253		
+ 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	11	11		
+ SPECIALTY ITEM						



USER NAME : B11P	DESIGNED - WRP	REVISED -
MODEL NAME : Default	DRAWN - AJJ	REVISED -
PLOT SCALE : 2.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE : 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

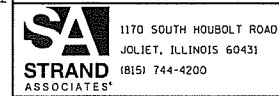
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	8
CONTRACT NO. 61E4B			ILLINOIS FED. AID PROJECT	

FILE NAME = S:\JOLI\1500--1594\1555\08A\Micros\CADD_Sheets\DI12345-ent-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
+ 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	33	33		
+ 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1		
+ 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	5	5		
+ 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1,905	1,905		
+ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	688	688		
+ 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	13	13		
+ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	282	282		
+ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,557	2,557		
+ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,954	1,954		
+ 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	171	171		
+ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	253	253		
+ 78000620	THERMOPLASTIC PAVEMENT MARKING - LINE 18"	FOOT	86	86		
+ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	10	10		
+ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1	
+ SPECIALTY ITEM						



USER NAME = BillP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	9
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FILE NAME = S:\JUL\1500-1594\1555\B0A\Micro\CAD\Sheets\DI12345-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
+ 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1	
+ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	881		881	
+ 81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	36		36	
+ 81100420	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	36		36	
+ 81400100	HANDHOLE	EACH	2		2	
+ 81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	3,964		3,964	
+ 81603020	UNIT DUCT, 600V, 3-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1,633		1,633	
+ 81702145	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3	FOOT	216		216	
+ 82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1		1	
+ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	236		236	
+ 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	13		13	
+ 84200804	REMOVAL OF POLE FOUNDATION	EACH	13		13	
+ A2000124	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 4" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
+ A2002886	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND HACKBERRY), 4" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
+ SPECIALTY ITEM						



USER NAME = B.IJP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

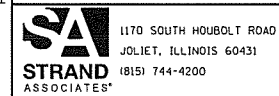
SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	10
CONTRACT NO. 61E48			[ILLINOIS] FED. AID PROJECT	

FILE NAME = S:\JOL\1500--1595\1555\004\Micro\CA00_Sheets\0112345-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
+ A2004630	TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS (SUNBURST HONEY LOCUST), 4 CALIPER, BALLED AND BURLAPPED	EACH	9	9		
+ A2006532	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 4" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
+ A2006726	TREE, QUERCUS MACROCARPA (BUR OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	11	11		
+ A2007632	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 4" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
+ A2007932	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 4" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
+ A2064012	TREE, QUERCUS ALBA X ROBUR CRIMSCHMIDT (CRIMSON SPIRE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12		
+ D2001215	EVERGREEN, JUNIPERUS SABINA BROADMOOR (BROADMOOR JUNIPER), 15" WIDTH, BALLED AND BURLAPPED	EACH	10	10		
+ D2001972	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	1	1		
+ K0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	6.31	6.31		
+ K1001969	GRAVEL MULCH	TON	120	120		
X0322102	TEMPORARY SIDEWALK RAMP	EACH	7	7		
X0323407	FLAG POLES	EACH	3	3		
+ X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	26		26	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	616	616		

+ SPECIALTY ITEM



USER NAME = B.IIP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

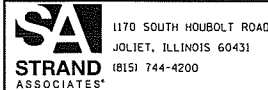
SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	11
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
X0540000	BRICK PAVERS	SO FT	3,660	3,660		
X1700128	STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SO YD	302	302		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	6	6		
X4023000	TEMPORARY ACCESS (ROAD)	EACH	4	4		
X4024100	TEMPORARY ACCESS (WINTERIZE)	SO YD	52	52		
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	70	70		
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SO FT	20,862	20,862		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	130	130		
X5030221	CONCRETE ENCASEMENT	CU YD	6	6		
X5510100	STORM SEWER REMOVAL	FOOT	405	405		
X6022040	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 11V FRAME AND GRATE	EACH	21	21		
X6022050	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 11V FRAME AND GRATE	EACH	2	2		
X6022055	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	1		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

+ SPECIALTY ITEM

FILE NAME = S:\JDL\15880--1595\1555\004\Micros\CADD_Sheets\012345-shr-500.dgn



USER NAME = B.IJP
MODEL NAME = Default
PLOT SCALE = 2.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 9 OF 11 SHEETS STA. TO STA.

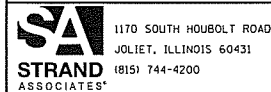
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	12
CONTRACT NO. 61E48				

ILLINOIS FED. AID PROJECT

FILE NAME = S:\JUL\1500--1599\1555\004\Micros\CADD\Sheets\DI12145-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	365	365		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	3,285	3,285		
+ X8130110	JUNCTION BOX (SPECIAL)	EACH	1		1	
+ X8300001	LIGHT POLE, SPECIAL	EACH	24		24	
+ X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1		1	
+ XX000739	CURB STOP & BOX 1 INCH	EACH	1	1		
XX000856	MAILBOX REMOVAL AND RELOCATION	EACH	2	2		
+ XX003120	YARD HYDRANT (FROST PROOF)	EACH	5	5		
XX006084	REMOVE EXISTING MONUMENT	EACH	1	1		
Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SO YD	578	578		
Z0007430	TEMPORARY SIDEWALK	SO FT	1,435	1,435		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0017500	DRAINAGE & UTILITY STRUCTURE ADJUSTMENT (SPECIAL)	EACH	9	9		
Z0017800	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED (SPECIAL)	EACH	12	12		

+ SPECIALTY ITEM



USER NAME = B:11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

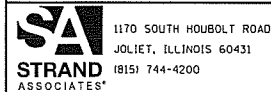
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	13
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FILE NAME = S:\JOL\15100--1598\1555\1004\Micros\CADD_Sheets\0112345-shr-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0003	STREET LIGHTING 0021	TRAINEES 0042
				70% FED. 30% STATE	70% FED. 30% STATE	70% FED. 30% STATE
				URBAN	URBAN	URBAN
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	12	12		
Z0019600	DUST CONTROL WATERING	UNIT	33	33		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	252	252		
+ Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	26		26	
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	33	33		
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	125	125		
Z0056670	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 18"	FOOT	53	53		
Z0062456	TEMPORARY PAVEMENT	SO YD	2,506	2,506		
Z0076600	TRAINEES	HOUR	500			500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500
+ A2006530	TREE, ULMUS PARVIFOLIA (PIONEER ELM) 4" CALIPER, BALLED AND BURLAPPED	EACH	7	7		

+ SPECIALTY ITEM



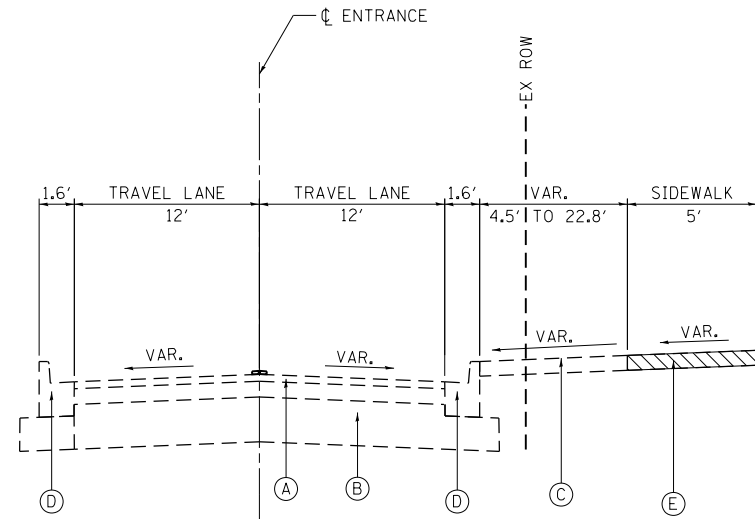
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

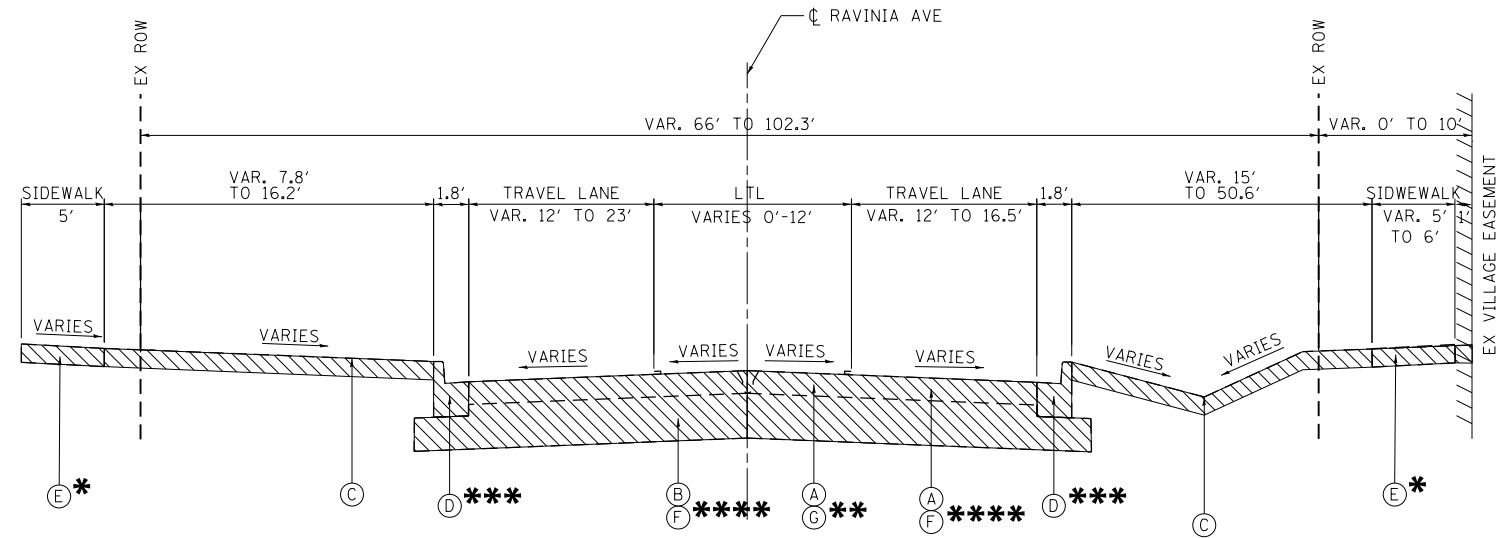
SCALE: N/A SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	14
CONTRACT NO. 61E48				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 350+00 TO STA. 351+42.42, ENTRANCE PATH



EXISTING TYPICAL SECTION

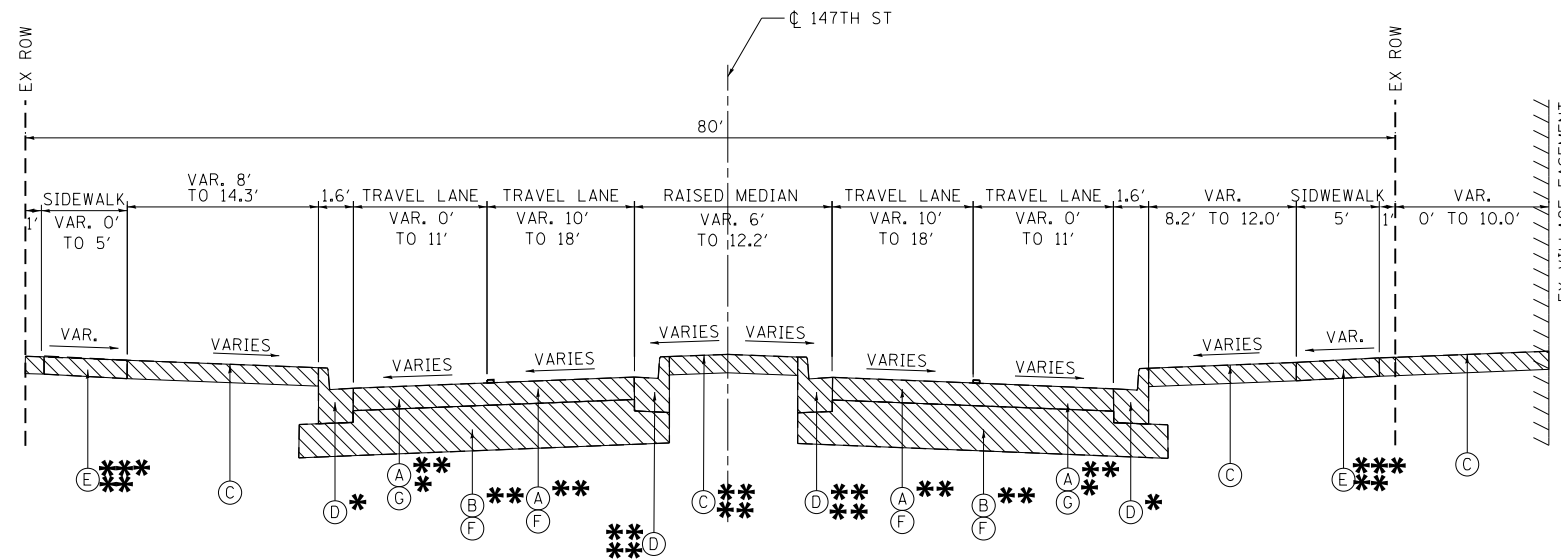
STA. 18+12.00 TO STA. 29+30.14, RAVINIA AVENUE

* STATION RANGES
LEFT - STA. 18+19.75 TO STA. 28+98.13
RIGHT - STA. 23+56.41 TO STA. 24+63.36

** STA. 18+12.00 TO STA. 19+76.60
AND STA. 28+43.00 TO STA. 29+30.14

*** STATION RANGES
LEFT - STA. 18+14.47 TO STA. 29+30.14
RIGHT - STA. 18+24.14 TO STA. 29+30.14

**** STA. 19+76.60 TO STA. 28+43.00



EXISTING TYPICAL SECTION

STA. 100+00.00 TO STA. 105+21.94, 147TH STREET

* STATION RANGES
LEFT - STA. 100+08.21 TO STA. 105+21.94
RIGHT - STA. 100+00.00 TO STA. 105+21.94

** STA. 100+60.26 TO STA. 105+21.94

** STA. 100+00.00 TO STA. 100+60.26

** STA. 100+70.80 TO STA. 105+21.94

*** STATION RANGE
LEFT - STA. 100+03.23 TO STA. 102+03.77
RIGHT - STA. 100+00.00 TO STA. 105+21.94

EXISTING LEGEND

- (A) 4 3/4" TO 8" - HMA PAVEMENT
- (B) 6" TO 8 3/4" - AGGREGATE SUBGRADE IMPROVEMENT
- (C) TURF
- (D) COMBINATION CONCRETE CURB AND GUTTER
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- (F) PAVEMENT REMOVAL
- (G) 2" - HOT-MIX ASPHALT SURFACE REMOVAL
- [Hatched Box] REMOVAL ITEM

FILE NAME = S:\JUL1520--1599\1555\004\Micro\CA00_Sheets\112345-ent-typsec.dgn



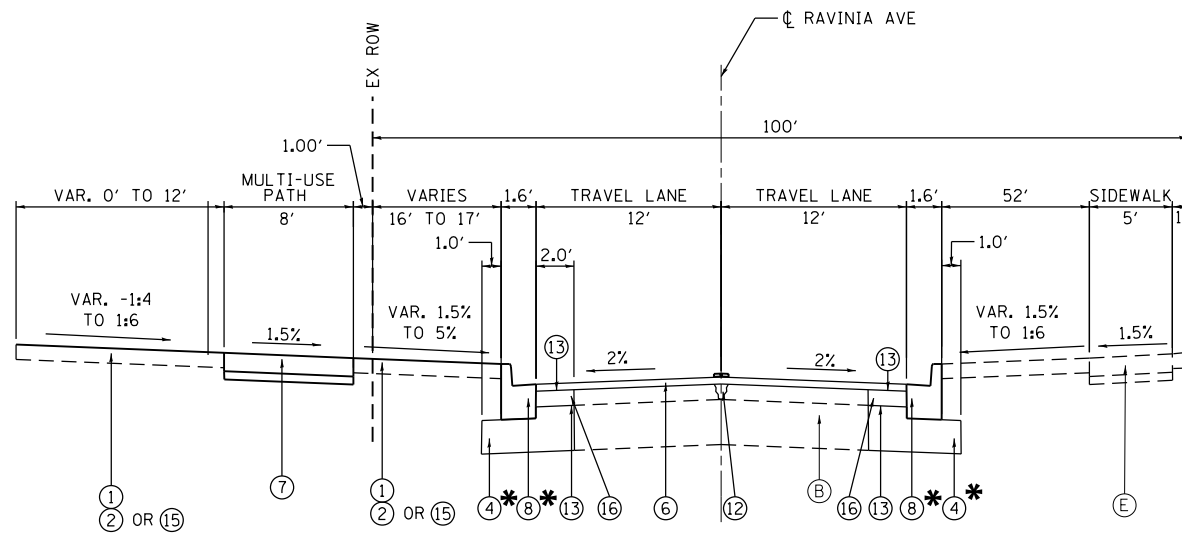
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: N/A SHEET 1 OF 6 SHEETS STA. N/A TO STA. N/A

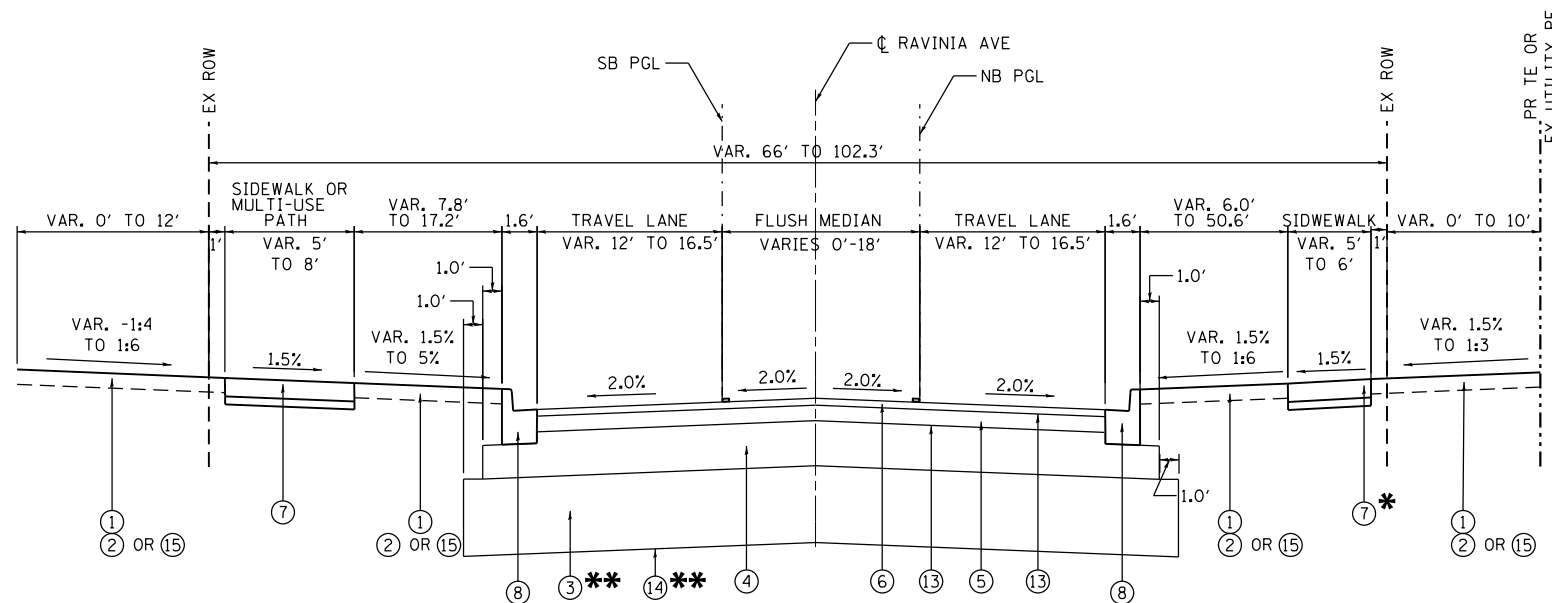
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	15
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



PROPOSED TYPICAL SECTION

STA. 14+96.21 TO STA. 19+76.60, RAVINIA AVENUE

* STATION RANGES
 LEFT - STA. 14+96.21 TO STA. 19+76.60, RAVINIA AVENUE
 RIGHT - STA. 18+24.14 TO STA. 19+76.60, RAVINIA AVENUE



PROPOSED TYPICAL SECTION

STA. 19+76.60 TO STA. 22+85.00, RAVINIA AVENUE
 STA. 27+15.29 TO STA. 28+43.00, RAVINIA AVENUE

* STATION RANGES
 27+15.29 TO 28+43.00

** STATION RANGES
 27+15.29 TO 27+20.00

EXISTING LEGEND

- (A) 4 3/4" TO 8" - HMA PAVEMENT
- (B) 6" TO 8 3/4" - AGGREGATE SUBGRADE IMPROVEMENT
- (C) TURF
- (D) COMBINATION CONCRETE CURB AND GUTTER
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- [Hatched Box] REMOVAL ITEM

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4" (18" IN MEDIANS, 24" IN CENTER ISLAND)
- (2) SODDING, SALT TOLERANT
- (3) AGGREGATE SUBGRADE IMPROVEMENT
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) 4.5" - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- (6) 2" - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5", SPECIAL
- (8) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12
- (9) COMBINATION CONCRETE CURB & GUTTER TYPE M (MODIFIED)
- (10) BRICK PAVERS
- (11) STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINED)
- (12) MIXTURES FOR CRACKS, JOINTS, AND FLANGEWAYS
- (13) BITUMINOUS MATERIALS (TACK COAT)
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (15) SEEDING, CLASS 2A
- (16) CLASS D PATCHES, TYPE 1, 5 INCH
- (17) GRAVEL MULCH

NOTE:

SEE SHEET 20 FOR HMA MIXTURE REQUIREMENTS.

FILE NAME = SA:\JOL\1500--1599\1555\004\Micros\CAD\Sheets\112345-shr-typsec.dgn



1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11P
 MODEL NAME = Default
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 12/15/2017

DESIGNED - WRP
 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N/A SHEET 2 OF 6 SHEETS STA. N/A TO STA. N/A

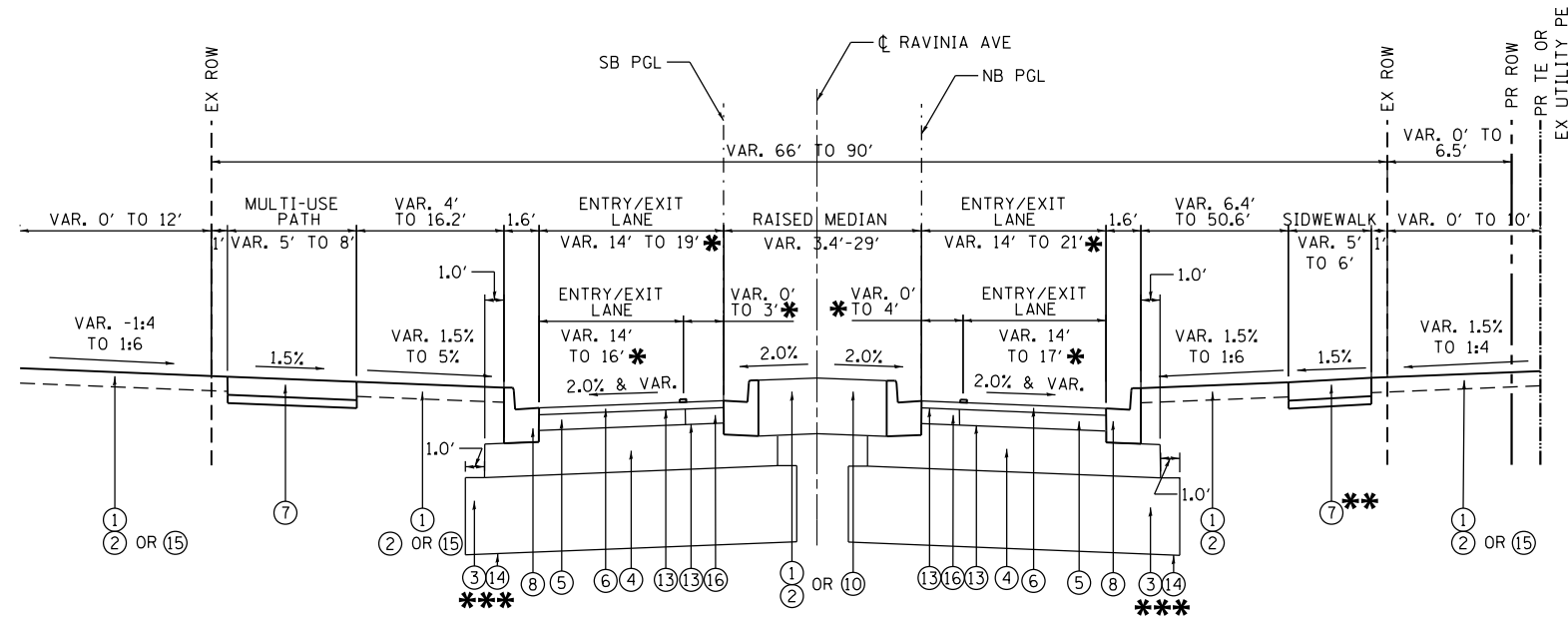
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	16
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

EXISTING LEGEND

- (A) 4 3/4" TO 8" - HMA PAVEMENT
- (B) 6" TO 8 3/4" - AGGREGATE SUBGRADE IMPROVEMENT
- (C) TURF
- (D) COMBINATION CONCRETE CURB AND GUTTER
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
-  REMOVAL ITEM

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4" (18" IN MEDIANS, 24" IN CENTER ISLAND)
- (2) SODDING, SALT TOLERANT
- (3) AGGREGATE SUBGRADE IMPROVEMENT
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) 4.5" - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- (6) 2" - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
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- (13) BITUMINOUS MATERIALS (TACK COAT)
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (15) SEEDING, CLASS 2A
- (16) CLASS D PATCHES, TYPE 1, 5 INCH
- (17) GRAVEL MULCH



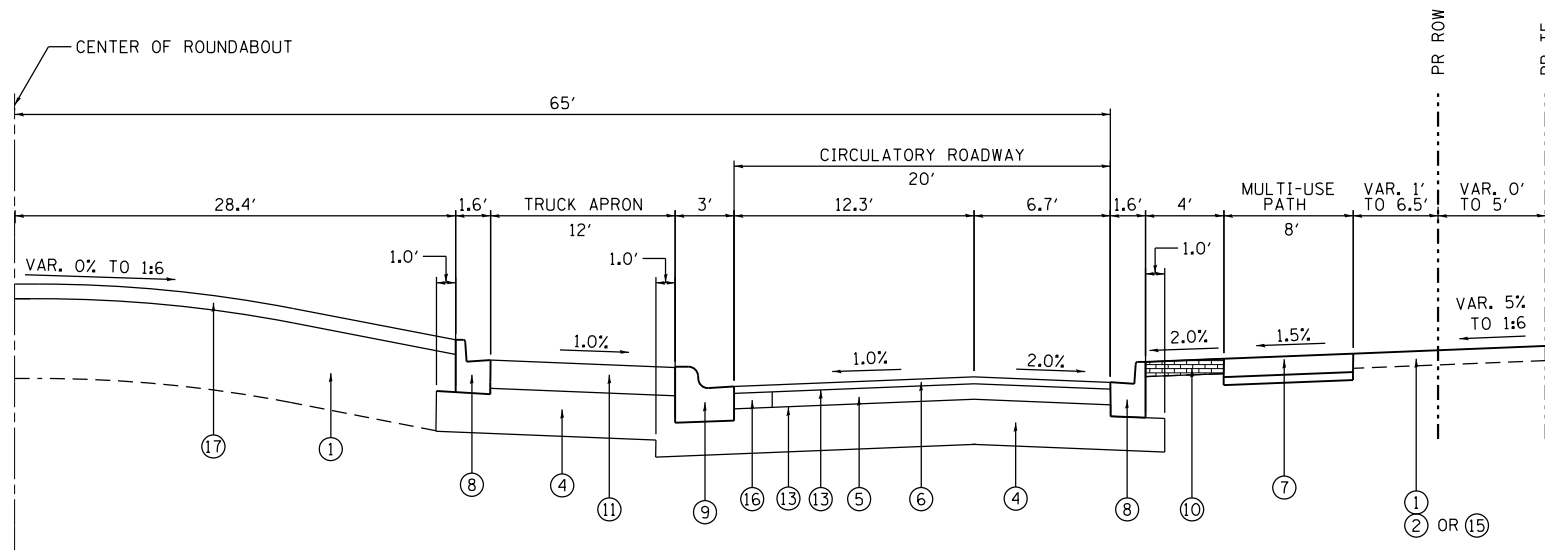
PROPOSED TYPICAL SECTION

STA. 22+85.00 TO STA. 24+50.40, RAVINIA AVENUE
 STA. 25+80.40 TO STA. 27+15.29, RAVINIA AVENUE

* STANDARD LANE WIDTH IS 14' WIDE WITH LANE FLARES APPROACHING AND EXITING THE ROUNDABOUT.

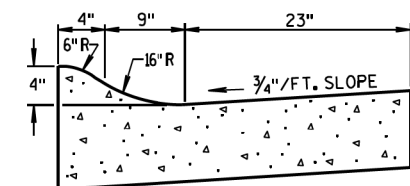
** STATION RANGES
 23+57.37 TO 24+50.40
 25+80.40 TO 27+15.29

*** STATION RANGES
 25+93.50 TO 27+15.29



PROPOSED ROUNDABOUT TYPICAL SECTION

STA. 24+50.40 TO STA. 25+80.40, RAVINIA AVENUE
 STA. 101+77.31 TO STA. 103+05.94, 147TH STREET



DETAIL: COMBINATION CONCRETE CURB & GUTTER TYPE M (MODIFIED)

FILE NAME = SA:\JUL15200--1599\1555\004\Microes\CAD\Drawings\112345-shr-typsec.dgn



1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = BillP
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DESIGNED - WRP
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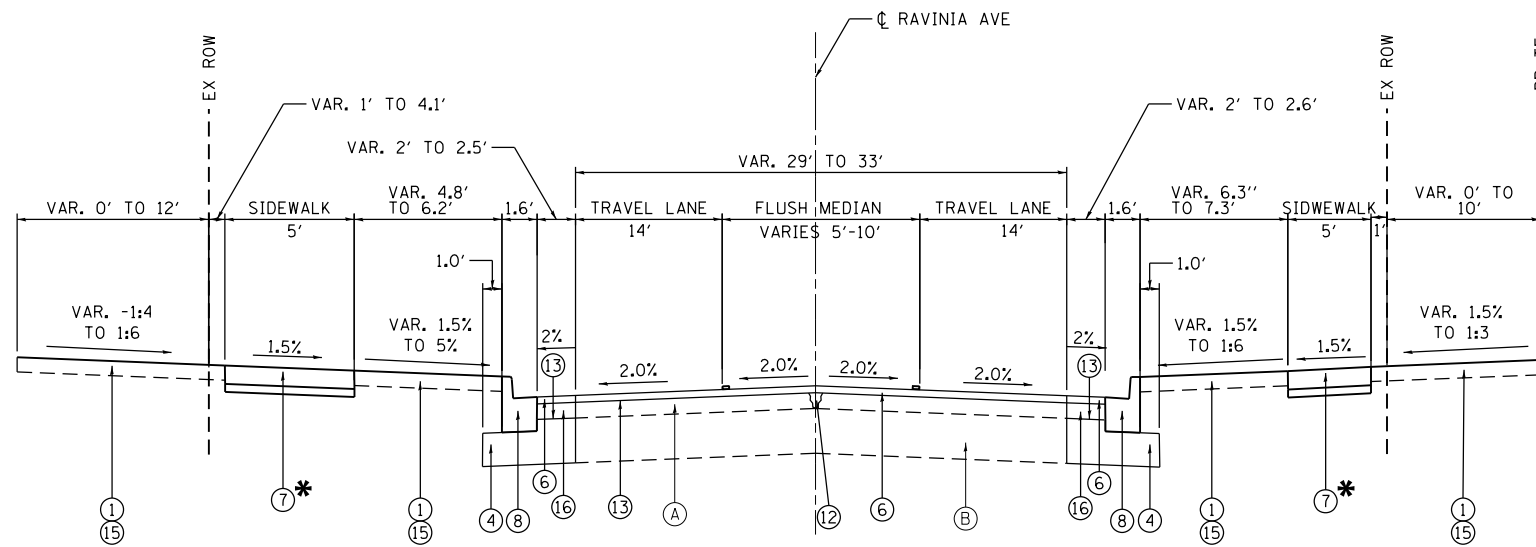
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: N/A SHEET 3 OF 6 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	17
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

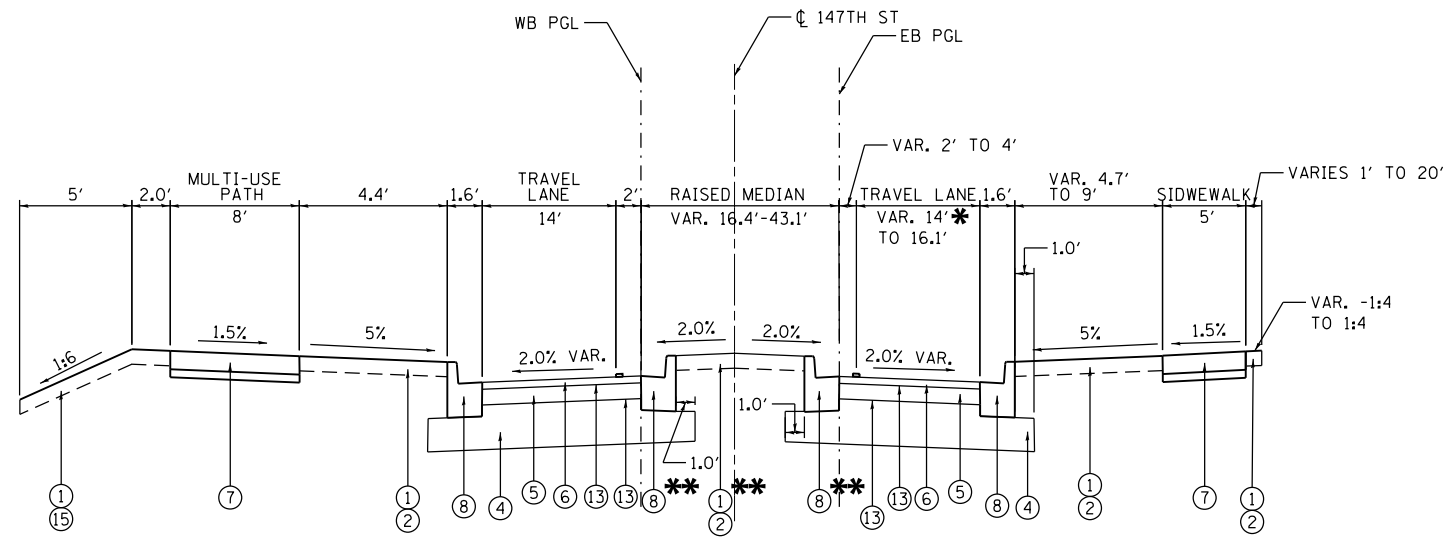


PROPOSED TYPICAL SECTION
STA. 28+43.00 TO STA. 29+30.14, RAVINIA AVENUE

* STATION RANGES
LT- 28+43.00 TO 28+98.13
RT- 28+43.00 TO 28+73.13

- EXISTING LEGEND**
- (A) 4 3/4" TO 8" - HMA PAVEMENT
 - (B) 6" TO 8 3/4" - AGGREGATE SUBGRADE IMPROVEMENT
 - (C) TURF
 - (D) COMBINATION CONCRETE CURB AND GUTTER
 - (E) PORTLAND CEMENT CONCRETE SIDEWALK
 - [Hatched Box] REMOVAL ITEM

- PROPOSED LEGEND**
- (1) TOPSOIL FURNISH AND PLACE, 4" (18" IN MEDIANS, 24" IN CENTER ISLAND)
 - (2) SODDING, SALT TOLERANT
 - (3) AGGREGATE SUBGRADE IMPROVEMENT
 - (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (5) 4.5" - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 - (6) 2" - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
 - (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5", SPECIAL
 - (8) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12
 - (9) COMBINATION CONCRETE CURB & GUTTER TYPE M (MODIFIED)
 - (10) BRICK PAVERS
 - (11) STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)
 - (12) MIXTURES FOR CRACKS, JOINTS, AND FLANGEWAYS
 - (13) BITUMINOUS MATERIALS (TACK COAT)
 - (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - (15) SEEDING, CLASS 2A
 - (16) CLASS D PATCHES, TYPE 1, 5 INCH
 - (17) GRAVEL MULCH



PROPOSED TYPICAL SECTION
STA. 100+60.26 TO STA. 101+77.31, VILLAGE HALL ENTRANCE

* STANDARD LANE WIDTH IS 14' WIDE WITH LANE FLARES APPROACHING AND EXITING THE ROUNDABOUT.
** STA. 100+70.80 TO STA. 101+77.31

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-ent-typsec.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P
MODEL NAME = Default
PLOT SCALE = 10.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

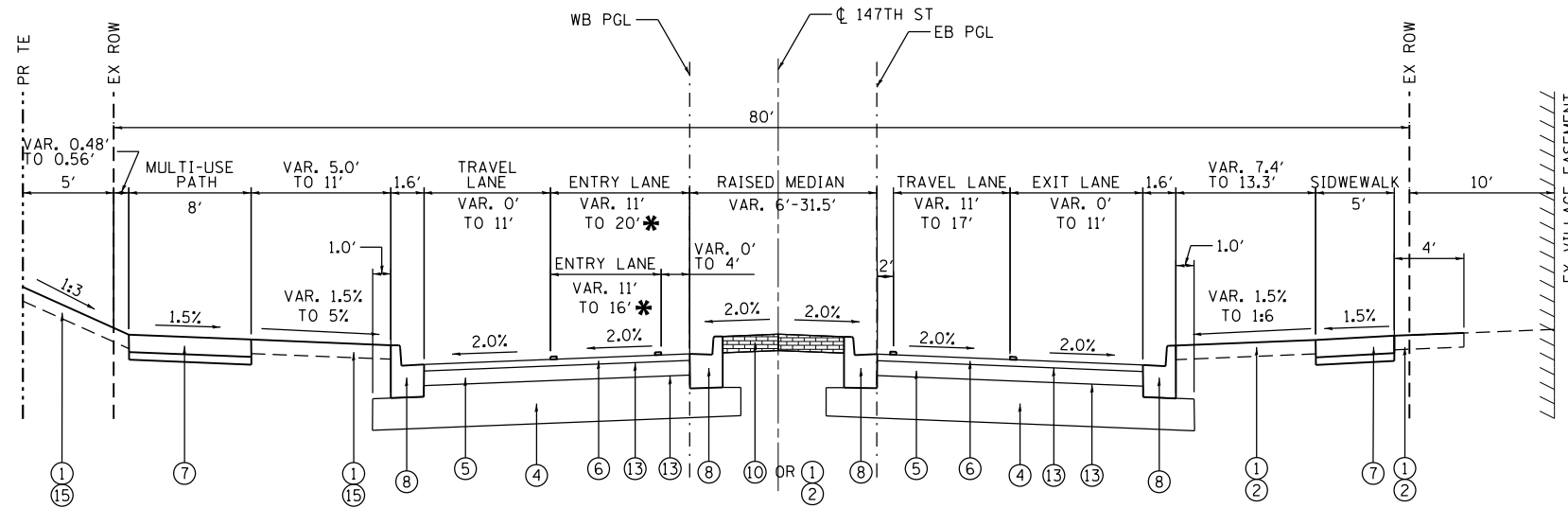
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N/A SHEET 4 OF 6 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	18
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



PROPOSED TYPICAL SECTION

STA. 103+05.94 TO STA. 105+21.94, 147TH STREET

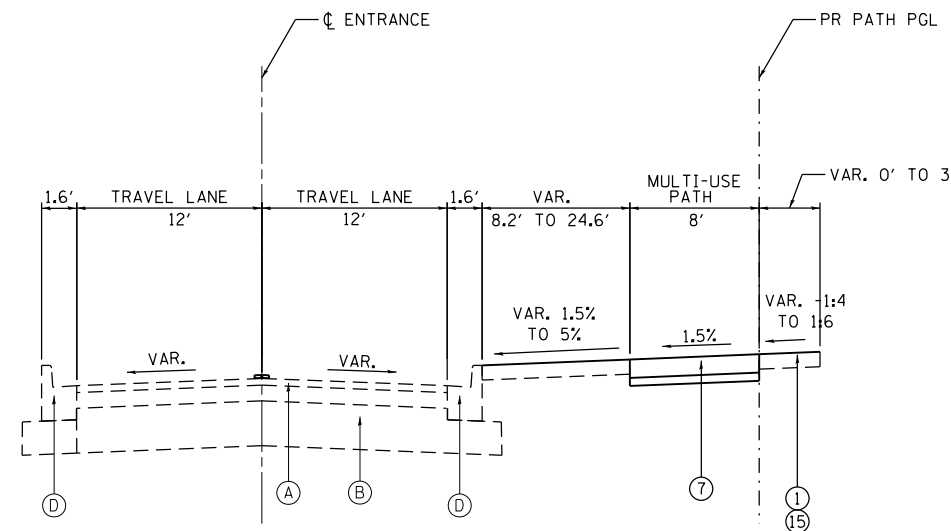
* STANDARD LANE WIDTH IS 14' WIDE WITH LANE FLARES APPROACHING AND EXITING THE ROUNDABOUT.

EXISTING LEGEND

- (A) 4 3/4" TO 8" - HMA PAVEMENT
- (B) 6" TO 8 3/4" - AGGREGATE SUBGRADE IMPROVEMENT
- (C) TURF
- (D) COMBINATION CONCRETE CURB AND GUTTER
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- [Hatched Box] REMOVAL ITEM

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4" (18" IN MEDIANS, 24" IN CENTER ISLAND)
- (2) SODDING, SALT TOLERANT
- (3) AGGREGATE SUBGRADE IMPROVEMENT
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) 4.5" - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- (6) 2" - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5", SPECIAL
- (8) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12
- (9) COMBINATION CONCRETE CURB & GUTTER TYPE M (MODIFIED)
- (10) BRICK PAVERS
- (11) STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)
- (12) MIXTURES FOR CRACKS, JOINTS, AND FLANGEWAYS
- (13) BITUMINOUS MATERIALS (TACK COAT)
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (15) SEEDING, CLASS 2A
- (16) CLASS D PATCHES, TYPE 1, 5 INCH
- (17) GRAVEL MULCH



PROPOSED TYPICAL SECTION

STA. 350+00 TO STA. 351+42.42, ENTRANCE PATH

FILE NAME = SA\JUL15200-1595\1555\004\Microes\CAD\Drawings\112345-ent-typsec.dgn



USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: N/A SHEET 5 OF 6 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	19
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL-DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 4 1/2"	4% @ 70 GYR
PATCHING	
CLASS D PATCHES HMA BINDER, IL-19mm); 5"	4% @ 70 GYR
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR
TEMPORARY SIDEWALK	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); 4"	4% @ 70 GYR

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.
2. 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 1 SPECIAL PROVISIONS. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

UNDERCUT NOTES:

1. REPLACEMENT MATERIAL SHALL BE PAID FOR AS AGGREGATE SUBGRADE IMPROVEMENT MEASURED IN CUBIC YARDS.
2. UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENTS SHALL BE PERFORMED WHERE DETERMINED BY THE ENGINEER.

ESTIMATED UNDERCUT

RAVINIA AVENUE	DEPTH (IN)
STA. 25+93.50 TO STA. 27+20.00	12"

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-ent-typsec.dgn



USER NAME = BillP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: N/A SHEET 6 OF 6 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	20
CONTRACT NO.				61E48
ILLINOIS FED. AID PROJECT				

EARTHWORK SUMMARY

LOCATION		EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	FURNISHED EXCAVATION 20400800	UNDERCUT AND OTHER UNSUITABLE MATERIAL
STATION	STATION	CU YD	CU YD	CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	CU YD
PRESTAGE						
	RAVINIA AVE.	561	477	0	477	0
	PATH ALONG ENTRANCE	100	85	0	85	0
	SUBTOTAL	661	562	0	562	0
STAGE I						
	RAVINIA AVE.	1,585	1,347	193	1,154	94
	147TH STREET	845	719	0	718	0
	SUBTOTAL	2,431	2,066	193	1,873	94
STAGE II						
	RAVINIA AVE.	569	483	145	338	94
	VILLAGE HALL ENTRANCE	493	419	169	249	0
	PARKING LOT ENTRANCE	88	75	0	75	0
	SUBTOTAL	1,149	977	314	663	94
STAGE III						
	RAVINIA AVE.	265	225	281	-55	0
	SUBTOTAL	265	225	281	-55	0
	TOTAL QUANTITIES	4,510	3,835	790	3,045	190

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\0112345-ent-schedules.dgn



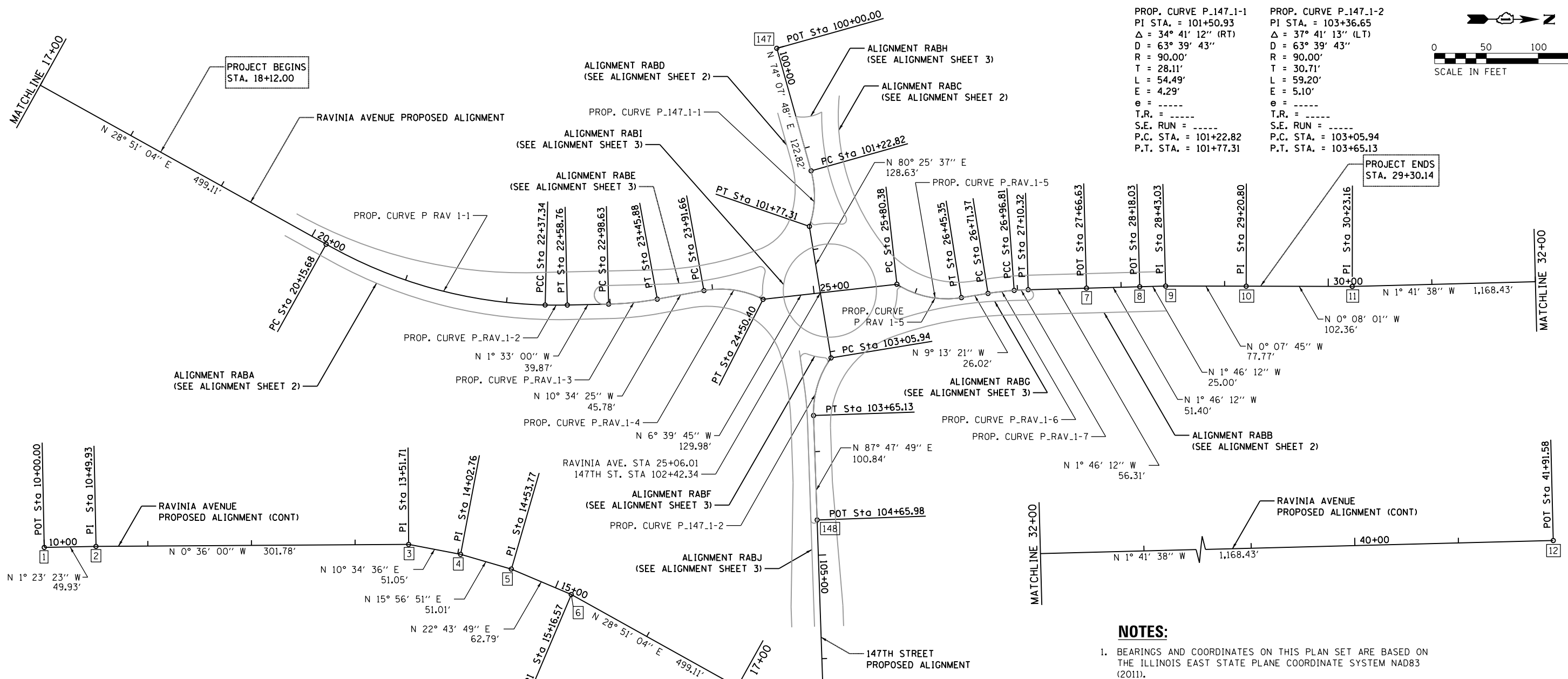
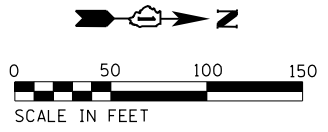
USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	21
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



PROP. CURVE P.147.1-1
 PI STA. = 101+50.93
 $\Delta = 34^\circ 41' 12''$ (RT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 28.11'$
 $L = 54.49'$
 $E = 4.29'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 101+22.82$
 $P.T. STA. = 101+77.31$

PROP. CURVE P.147.1-2
 PI STA. = 103+36.65
 $\Delta = 37^\circ 41' 13''$ (LT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 30.71'$
 $L = 59.20'$
 $E = 5.10'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 103+05.94$
 $P.T. STA. = 103+65.13$

NOTES:

- BEARINGS AND COORDINATES ON THIS PLAN SET ARE BASED ON THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM NAD83 (2011).
- ELEVATIONS SHOWN ON THIS PLAN SET ARE BASED ON NGS VERTICAL POINT DK2032 (NAVD 88).

RAVINIA AVENUE ALIGNMENT LAYOUT POINTS

PT	NORTHING	EASTING
1	1804226.3534	1114414.6224
2	1804276.2688	1114413.4115
3	1804578.0332	1114410.2517
4	1804628.2146	1114419.6218
5	1804677.2646	1114433.6381
6	1804735.1801	1114457.9007
7	1805906.4581	1114738.1315
8	1805957.8307	1114736.5439
9	1805982.8188	1114735.7717
10	1806060.5838	1114735.5962
11	1806162.9437	1114735.3577
12	1807330.8596	1114700.8181

147th STREET ALIGNMENT LAYOUT POINTS

PT	NORTHING	EASTING
147	1805606.5578	1114507.8646
148	1805647.3844	1114962.9507
149	1805664.4011	1115405.3014

PROP. CURVE P_RAV_1-1
 PI STA. = 21+28.80
 $\Delta = 28^\circ 13' 20''$ (LT)
 $D = 12^\circ 43' 57''$
 $R = 450.00'$
 $T = 113.13'$
 $L = 221.66'$
 $E = 14.00'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 20+15.68$
 $P.T. STA. = 22+37.34$

PROP. CURVE P_RAV_1-2
 PI STA. = 22+48.05
 $\Delta = 2^\circ 43' 40''$ (LT)
 $D = 12^\circ 43' 57''$
 $R = 450.00'$
 $T = 10.71'$
 $L = 21.42'$
 $E = 0.13'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 22+37.34$
 $P.T. STA. = 22+58.76$

PROP. CURVE P_RAV_1-3
 PI STA. = 23+22.30
 $\Delta = 9^\circ 01' 26''$ (LT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 23.67'$
 $L = 47.25'$
 $E = 0.93'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 22+98.63$
 $P.T. STA. = 23+45.88$

PROP. CURVE P_RAV_1-4
 PI STA. = 24+22.12
 $\Delta = 37^\circ 23' 42''$ (RT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 30.46'$
 $L = 58.74'$
 $E = 5.01'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 23+91.66$
 $P.T. STA. = 24+50.40$

PROP. CURVE P_RAV_1-5
 PI STA. = 26+14.35
 $\Delta = 41^\circ 21' 42''$ (LT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 33.97'$
 $L = 64.97'$
 $E = 6.20'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 25+80.38$
 $P.T. STA. = 26+45.35$

PROP. CURVE P_RAV_1-6
 PI STA. = 26+84.10
 $\Delta = 4^\circ 52' 00''$ (RT)
 $D = 19^\circ 07' 50''$
 $R = 299.50'$
 $T = 12.73'$
 $L = 25.44'$
 $E = 0.27'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 26+71.37$
 $P.T. STA. = 26+96.81$

PROP. CURVE P_RAV_1-7
 PI STA. = 27+03.57
 $\Delta = 2^\circ 35' 09''$ (RT)
 $D = 19^\circ 07' 50''$
 $R = 299.50'$
 $T = 6.76'$
 $L = 13.52'$
 $E = 0.08'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 26+96.81$
 $P.T. STA. = 27+10.32$

FILE NAME = S:\A\101\1500-1\B99\1555\004\Micros\CAD\Sheets\1112345-dt-ATB-1.dgn



USER NAME = BillP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN RAVINIA AVENUE AND 147th STREET

SCALE: 50 SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	

PROP. CURVE RABD-1
 PI STA. = 500+76.92
 $\Delta = 32^\circ 42' 13''$ (RT)
 D = 63' 39' 43"
 R = 90.00'
 T = 26.41'
 L = 51.37'
 E = 3.79'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 500+50.52
 P.T. STA. = 501+01.89

PROP. CURVE RABD-2
 PI STA. = 501+26.11
 $\Delta = 51^\circ 41' 21''$ (RT)
 D = 114' 35' 30"
 R = 50.00'
 T = 24.22'
 L = 45.11'
 E = 5.56'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 501+01.89
 P.T. STA. = 501+46.99

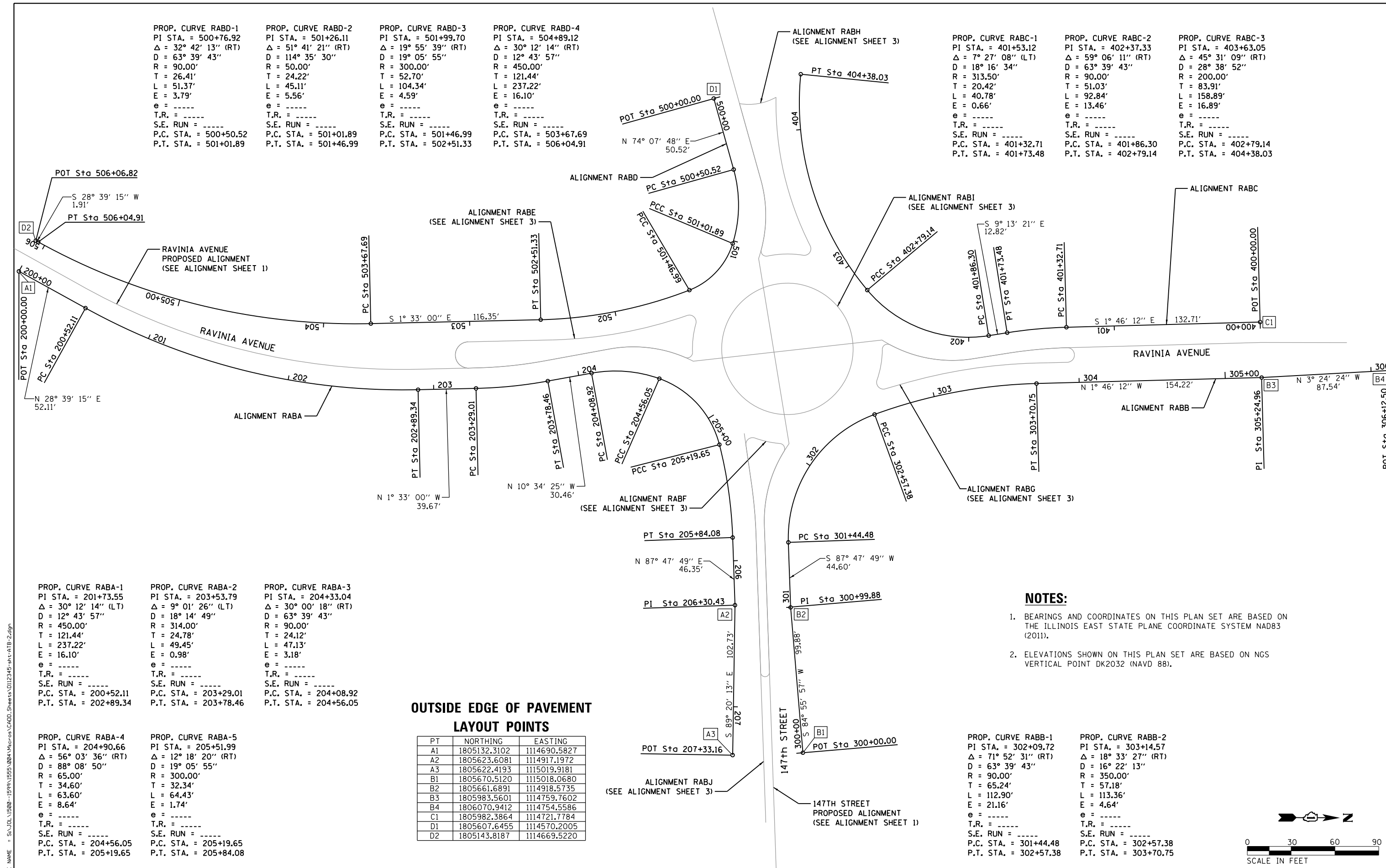
PROP. CURVE RABD-3
 PI STA. = 501+99.70
 $\Delta = 19^\circ 55' 39''$ (RT)
 D = 19' 05' 55"
 R = 300.00'
 T = 52.70'
 L = 104.34'
 E = 4.59'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 501+46.99
 P.T. STA. = 502+51.33

PROP. CURVE RABD-4
 PI STA. = 504+89.12
 $\Delta = 30^\circ 12' 14''$ (RT)
 D = 12' 43' 57"
 R = 450.00'
 T = 121.44'
 L = 237.22'
 E = 16.10'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 503+67.69
 P.T. STA. = 506+04.91

PROP. CURVE RABC-1
 PI STA. = 401+53.12
 $\Delta = 7^\circ 27' 08''$ (LT)
 D = 18' 16' 34"
 R = 313.50'
 T = 20.42'
 L = 40.78'
 E = 0.66'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 401+32.71
 P.T. STA. = 401+73.48

PROP. CURVE RABC-2
 PI STA. = 402+37.33
 $\Delta = 59^\circ 06' 11''$ (RT)
 D = 63' 39' 43"
 R = 90.00'
 T = 51.03'
 L = 92.84'
 E = 13.46'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 401+86.30
 P.T. STA. = 402+79.14

PROP. CURVE RABC-3
 PI STA. = 403+63.05
 $\Delta = 45^\circ 31' 09''$ (RT)
 D = 28' 38' 52"
 R = 200.00'
 T = 83.91'
 L = 158.89'
 E = 16.89'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 402+79.14
 P.T. STA. = 404+38.03



PROP. CURVE RABA-1
 PI STA. = 201+73.55
 $\Delta = 30^\circ 12' 14''$ (LT)
 D = 12' 43' 57"
 R = 450.00'
 T = 121.44'
 L = 237.22'
 E = 16.10'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 200+52.11
 P.T. STA. = 202+89.34

PROP. CURVE RABA-2
 PI STA. = 203+53.79
 $\Delta = 9^\circ 01' 26''$ (LT)
 D = 18' 14' 49"
 R = 314.00'
 T = 24.78'
 L = 49.45'
 E = 0.98'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 203+29.01
 P.T. STA. = 203+78.46

PROP. CURVE RABA-3
 PI STA. = 204+33.04
 $\Delta = 30^\circ 00' 18''$ (RT)
 D = 63' 39' 43"
 R = 90.00'
 T = 24.12'
 L = 47.13'
 E = 3.18'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 204+08.92
 P.T. STA. = 204+56.05

PROP. CURVE RABA-4
 PI STA. = 204+90.66
 $\Delta = 56^\circ 03' 36''$ (RT)
 D = 88' 08' 50"
 R = 65.00'
 T = 34.60'
 L = 63.60'
 E = 8.64'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 204+56.05
 P.T. STA. = 205+19.65

PROP. CURVE RABA-5
 PI STA. = 205+51.99
 $\Delta = 12^\circ 18' 20''$ (RT)
 D = 19' 05' 55"
 R = 300.00'
 T = 32.34'
 L = 64.43'
 E = 1.74'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 205+19.65
 P.T. STA. = 205+84.08

OUTSIDE EDGE OF PAVEMENT LAYOUT POINTS

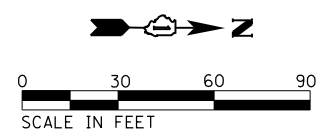
PT	NORTHING	EASTING
A1	1805132.3102	1114690.5827
A2	1805623.6081	1114917.1972
A3	1805622.4193	1115019.9181
B1	1805670.5120	1115018.0680
B2	1805661.6891	1114918.5735
B3	1805983.5601	1114759.7602
B4	1806070.9412	1114754.5586
C1	1805982.3864	1114721.7784
D1	1805607.6455	1114570.2005
D2	1805143.8187	1114669.5220

NOTES:

- BEARINGS AND COORDINATES ON THIS PLAN SET ARE BASED ON THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM NAD83 (2011).
- ELEVATIONS SHOWN ON THIS PLAN SET ARE BASED ON NGS VERTICAL POINT DK2032 (NAVD 88).

PROP. CURVE RABB-1
 PI STA. = 302+09.72
 $\Delta = 71^\circ 52' 31''$ (RT)
 D = 63' 39' 43"
 R = 90.00'
 T = 65.24'
 L = 112.90'
 E = 21.16'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 301+44.48
 P.T. STA. = 302+57.38

PROP. CURVE RABB-2
 PI STA. = 303+14.57
 $\Delta = 18^\circ 33' 27''$ (RT)
 D = 16' 22' 13"
 R = 350.00'
 T = 57.18'
 L = 113.36'
 E = 4.64'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 302+57.38
 P.T. STA. = 303+70.75



USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN
 ROUNDABOUT OUTSIDE CURBS**

SCALE: 30 SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	23
CONTRACT NO. 61E48				
ILLINOIS FED. AID PROJECT				

ALIGNMENT RABG CURVES

PROP. CURVE RABG-1 PI STA. = 800+06.76 Δ = 2° 35' 09" (LT) D = 19° 07' 50" R = 299.50' T = 6.76' L = 13.52' E = 0.08' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 800+00.00 P.T. STA = 800+13.52	PROP. CURVE RABG-2 PI STA. = 800+26.24 Δ = 4° 52' 00" (LT) D = 19° 07' 50" R = 299.50' T = 12.73' L = 25.44' E = 0.27' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 800+13.52 P.T. STA = 800+38.96	PROP. CURVE RABG-3 PI STA. = 800+95.30 Δ = 37° 14' 21" (RT) D = 63° 39' 43" R = 90.00' T = 30.32' L = 58.50' E = 4.97' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 800+64.98 P.T. STA = 801+23.47	PROP. CURVE RABG-4 PI STA. = 801+29.46 Δ = 117° 57' 40" (LT) D = 1591° 32' 58" R = 3.60' T = 5.99' L = 7.41' E = 3.39' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 801+23.47 P.T. STA = 801+30.88
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PROP. CURVE RABG-5 PI STA. = 801+41.74 Δ = 18° 58' 01" (RT) D = 88° 08' 50" R = 65.00' T = 10.86' L = 21.52' E = 0.90' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 801+30.88 P.T. STA = 801+52.40	PROP. CURVE RABG-6 PI STA. = 801+61.33 Δ = 125° 28' 58" (LT) D = 1245° 33' 37" R = 4.60' T = 8.93' L = 10.07' E = 5.44' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 801+52.40 P.T. STA = 801+62.48	PROP. CURVE RABG-7 PI STA. = 802+21.11 Δ = 14° 41' 25" (RT) D = 15° 44' 26" R = 364.00' T = 46.92' L = 93.33' E = 3.01' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 801+74.19 P.T. STA = 802+67.52	PROP. CURVE RABG-8 PI STA. = 802+94.03 Δ = 90° 00' 00" (LT) D = 1145° 54' 56" R = 5.00' T = 5.00' L = 7.85' E = 2.07' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 802+89.03 P.T. STA = 802+96.88
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PROP. CURVE RABG-9 PI STA. = 803+01.88 Δ = 90° 00' 02" (LT) D = 1145° 54' 56" R = 5.00' T = 5.00' L = 7.85' E = 2.07' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 802+96.88 P.T. STA = 803+04.74
--

ALIGNMENT RABF CURVES

PROP. CURVE RABF-1 PI STA. = 701+28.05 Δ = 33° 38' 35" (RT) D = 63° 39' 43" R = 90.00' T = 27.21' L = 52.85' E = 4.02' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 701+00.84 P.T. STA = 701+53.69	PROP. CURVE RABF-2 PI STA. = 701+59.58 Δ = 117° 07' 12" (LT) D = 1591° 32' 58" R = 3.60' T = 5.89' L = 7.36' E = 3.30' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 701+53.69 P.T. STA = 701+61.05	PROP. CURVE RABF-3 PI STA. = 701+69.88 Δ = 15° 28' 30" (RT) D = 88° 08' 50" R = 65.00' T = 16.41' L = 17.56' E = 0.60' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 701+61.05 P.T. STA = 701+78.60	PROP. CURVE RABF-4 PI STA. = 701+86.30 Δ = 118° 15' 34" (LT) D = 1245° 33' 38" R = 4.60' T = 7.70' L = 9.49' E = 4.37' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 701+78.60 P.T. STA = 701+88.10	PROP. CURVE RABF-5 PI STA. = 702+31.85 Δ = 6° 15' 42" (RT) D = 19° 05' 55" R = 300.00' T = 16.41' L = 32.79' E = 0.45' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 702+15.44 P.T. STA = 702+48.23	PROP. CURVE RABF-6 PI STA. = 6091+73.53 Δ = 179° 59' 58" (LT) D = 1909° 51' 34" R = 3.00' T = 538,829.33' L = 9.42' E = 538,826.33' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 703+44.20 P.T. STA = 703+53.62
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PROP. CURVE RABI-1 PI STA. = 1001+41.22 Δ = 144° 39' 07" (RT) D = 127° 19' 26" R = 45.00' T = 141.22' L = 113.61' E = 103.22' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 1000+00.00 P.T. STA = 1001+13.61	PROP. CURVE RABI-2 PI STA. = 1001+75.15 Δ = 107° 38' 45" (RT) D = 127° 19' 26" R = 45.00' T = 61.54' L = 84.54' E = 31.23' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 1001+13.61 P.T. STA = 1001+98.15	PROP. CURVE RABI-3 PI STA. = 1002+59.69 Δ = 107° 38' 45" (RT) D = 127° 19' 26" R = 45.00' T = 61.54' L = 84.54' E = 31.23' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 1001+98.15 P.T. STA = 1002+82.70
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NOTES:

- BEARINGS AND COORDINATES ON THIS PLAN SET ARE BASED ON THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM NAD83 (2011).
- ELEVATIONS SHOWN ON THIS PLAN SET ARE BASED ON NGS VERTICAL POINT DK2032 (NAVD 88).

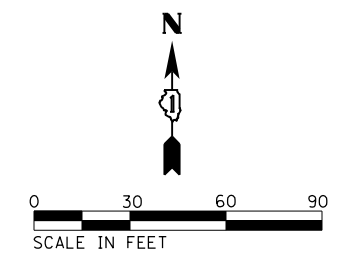
ALIGNMENT RABJ CURVE

PROP. CURVE RABJ-1 PI STA. = 1100+52.00 Δ = 6° 15' 42" (RT) D = 19° 05' 55" R = 300.00' T = 16.41' L = 32.79' E = 0.45' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 1100+35.60 P.T. STA = 1100+68.38
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ALIGNMENT RABE CURVES

PROP. CURVE RABE-1 PI STA. = 601+05.21 Δ = 17° 58' 43" (LT) D = 19° 05' 55" R = 300.00' T = 47.46' L = 105.35' E = 6.59' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 900+00.00 P.T. STA = 901+05.35	PROP. CURVE RABE-2 PI STA. = 601+60.68 Δ = 124° 45' 45" (RT) D = 1245° 33' 37" R = 4.60' T = 8.79' L = 10.02' E = 5.32' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 601+51.89 P.T. STA = 601+61.90	PROP. CURVE RABE-3 PI STA. = 601+71.97 Δ = 17° 36' 35" (LT) D = 88° 08' 50" R = 300.00' T = 10.07' L = 19.98' E = 0.78' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 601+61.90 P.T. STA = 601+81.88	PROP. CURVE RABE-4 PI STA. = 601+87.56 Δ = 115° 18' 50" (RT) D = 1591° 48' 30" R = 3.60' T = 5.68' L = 7.24' E = 3.13' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 601+81.88 P.T. STA = 601+89.12
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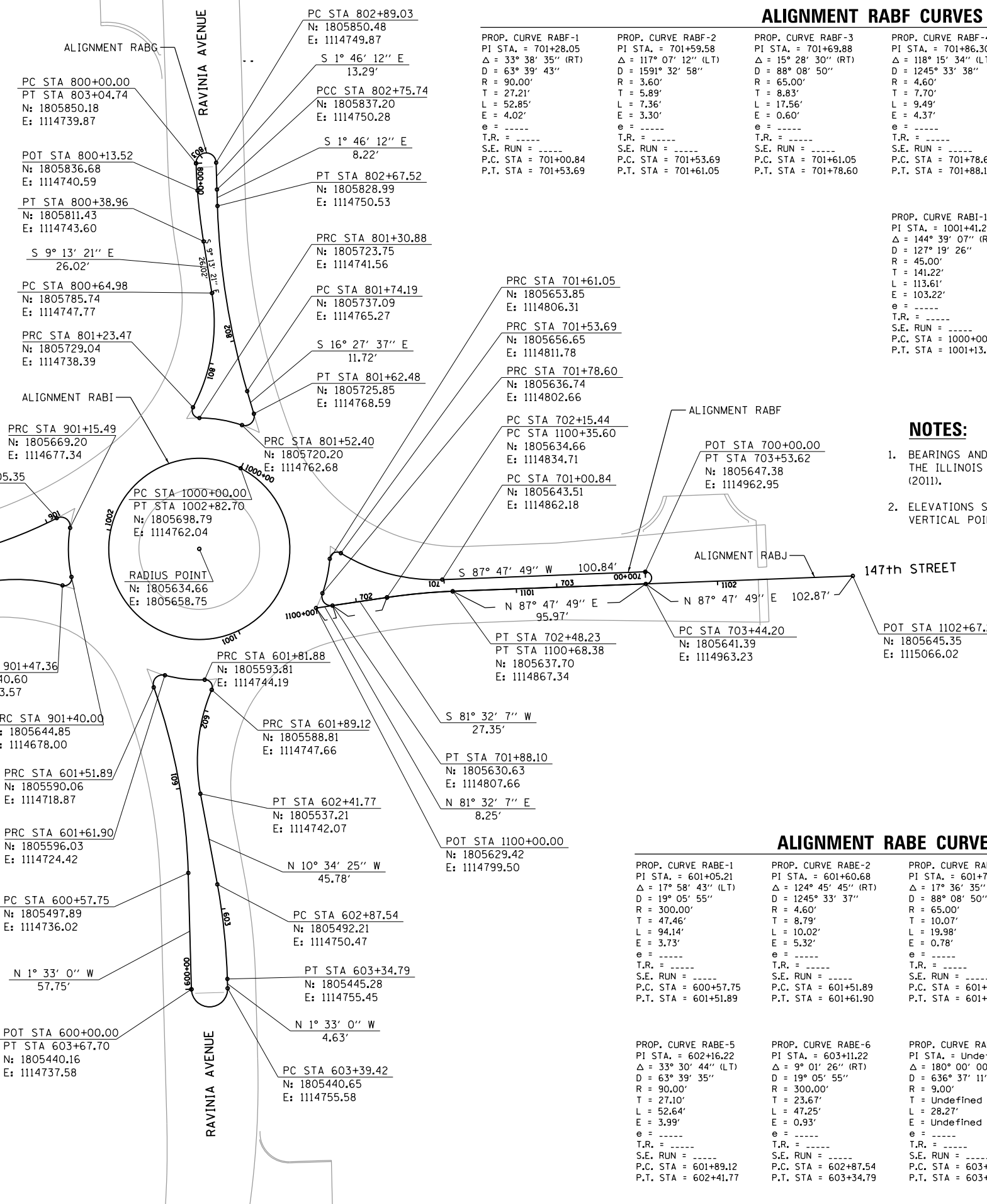
PROP. CURVE RABE-5 PI STA. = 602+16.22 Δ = 33° 30' 44" (LT) D = 63° 39' 35" R = 90.00' T = 27.10' L = 52.64' E = 3.99' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 601+89.12 P.T. STA = 602+41.77	PROP. CURVE RABE-6 PI STA. = 603+11.22 Δ = 9° 01' 26" (RT) D = 19° 05' 55" R = 300.00' T = 23.67' L = 47.25' E = 0.93' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 602+87.54 P.T. STA = 603+34.79	PROP. CURVE RABE-7 PI STA. = Undefined Δ = 180° 00' 00" (RT) D = 636° 37' 11" R = 9.00' T = Undefined L = 28.27' E = Undefined e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 603+39.42 P.T. STA = 603+67.70
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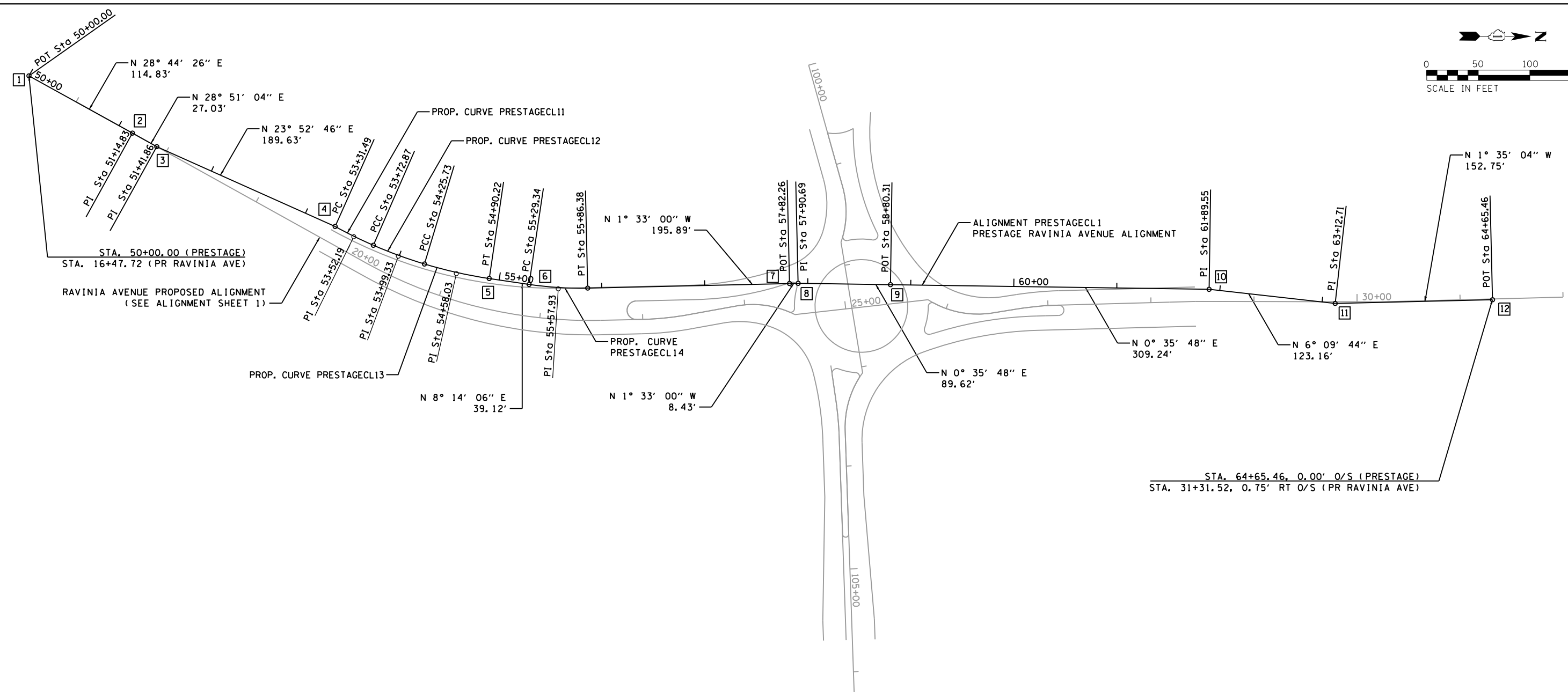
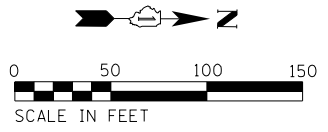
ALIGNMENT RABH CURVES

PROP. CURVE RABH-1 PI STA. = 900+53.74 Δ = 27° 56' 38" (LT) D = 26° 31' 33" R = 216.00' T = 53.74' L = 105.35' E = 6.59' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 900+00.00 P.T. STA = 901+05.35	PROP. CURVE RABH-2 PI STA. = 901+14.45 Δ = 126° 24' 34" (RT) D = 1245° 53' 44" R = 4.60' T = 9.11' L = 10.15' E = 5.60' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 901+05.35 P.T. STA = 901+15.49	PROP. CURVE RABH-3 PI STA. = 901+27.89 Δ = 21° 35' 59" (LT) D = 88° 07' 47" R = 65.01' T = 12.40' L = 24.51' E = 1.17' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 901+15.49 P.T. STA = 901+40.00
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PROP. CURVE RABH-4 PI STA. = 901+45.89 Δ = 117° 07' 12" (RT) D = 1592° 13' 09" R = 3.60' T = 5.89' L = 7.36' E = 3.30' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 901+40.00 P.T. STA = 901+47.36	PROP. CURVE RABH-5 PI STA. = 901+72.02 Δ = 30° 38' 34" (LT) D = 63° 39' 20" R = 90.01' T = 24.66' L = 48.14' E = 3.32' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 901+47.36 P.T. STA = 901+95.49	PROP. CURVE RABH-6 PI STA. = 902+63.43 Δ = 39° 34' 10" (LT) D = 152° 47' 19" R = 37.50' T = 13.49' L = 25.90' E = 2.35' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA = 902+49.94 P.T. STA = 902+75.84
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FILE NAME = S:\JUL15200--1599\1555\004\Micros\CAD\Sheets\1112345-dt-ATB-3.dgn



NOTES:

- BEARINGS AND COORDINATES ON THIS PLAN SET ARE BASED ON THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM NAD83 (2011).

PRESTAGE RAVINIA AVENUE ALIGNMENT LAYOUT POINTS

PT	NORTHING	EASTING
1	1804849.9445	1114521.3789
2	1804950.6269	1114576.5935
3	1804974.2993	1114589.6350
4	1805147.6981	1114666.3998
5	1805297.4798	1114716.3552
6	1805336.1935	1114721.9581
7	1805588.8827	1114719.9818
8	1805597.3079	1114719.7538
9	1805686.9270	1114720.6871
10	1805996.1490	1114723.9073
11	1806118.5951	1114737.1278
12	1806271.2854	1114732.9039

PROP. CURVE PRESTAGECL11 PI STA. = 53+52.19 $\Delta = 5^\circ 19' 23''$ (LT) $D = 12^\circ 51' 50''$ $R = 445.40'$ $T = 20.70'$ $L = 41.38'$ $E = 0.48'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 53+31.49 P.T. STA. = 53+72.87	PROP. CURVE PRESTAGECL12 PI STA. = 53+99.33 $\Delta = 6^\circ 48' 03''$ (LT) $D = 12^\circ 51' 50''$ $R = 445.40'$ $T = 26.47'$ $L = 52.87'$ $E = 0.79'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 53+72.87 P.T. STA. = 54+25.73	PROP. CURVE PRESTAGECL13 PI STA. = 54+58.03 $\Delta = 8^\circ 17' 43''$ (LT) $D = 12^\circ 51' 50''$ $R = 445.40'$ $T = 32.30'$ $L = 64.48'$ $E = 1.17'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 54+25.73 P.T. STA. = 54+90.22	PROP. CURVE PRESTAGECL14 PI STA. = 55+57.93 $\Delta = 9^\circ 47' 06''$ (LT) $D = 17^\circ 09' 16''$ $R = 334.00'$ $T = 28.59'$ $L = 57.04'$ $E = 1.22'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 55+29.34 P.T. STA. = 55+86.38
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FILE NAME = \\strand.com\projects\101\1500--159R\1595\004\Microst\Cadd\Sheet\112345-sh1-ATB-4.dgn



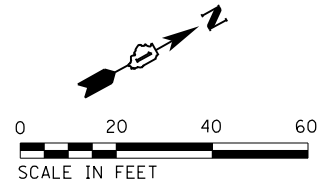
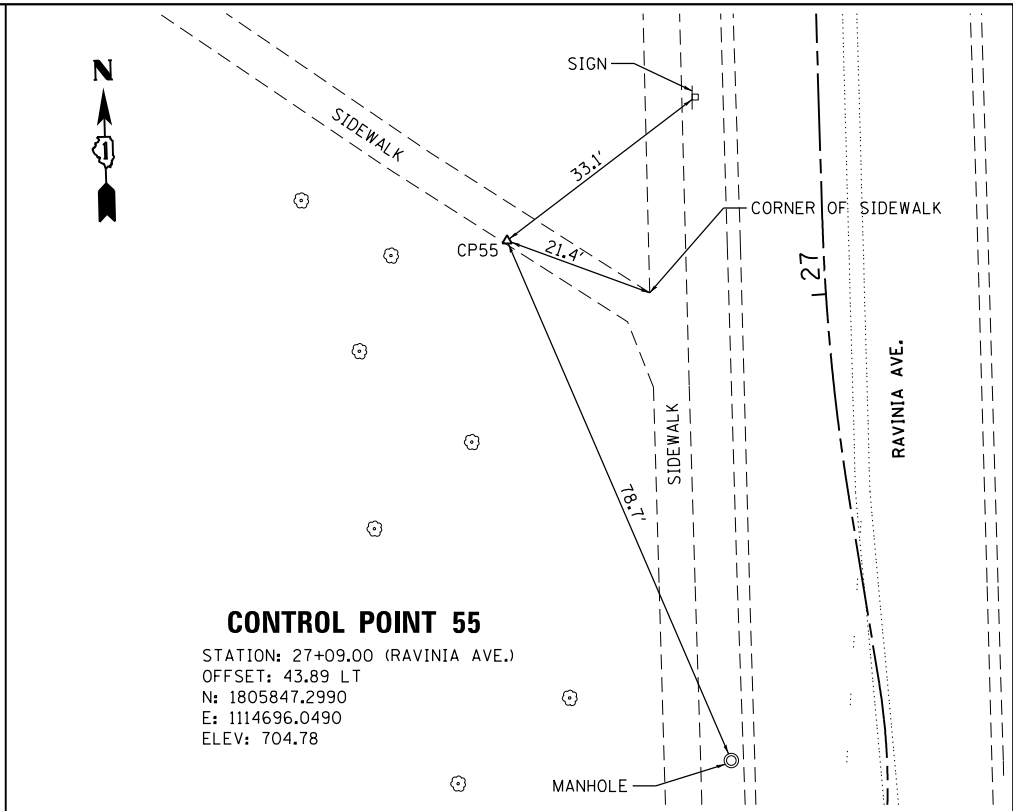
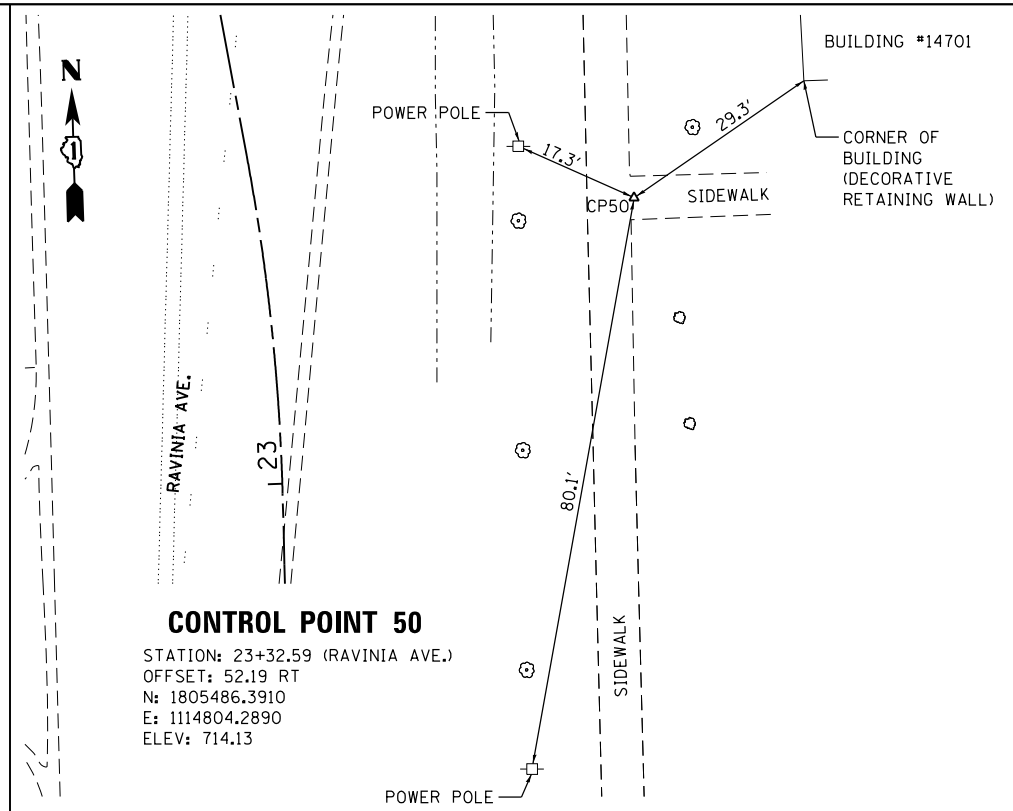
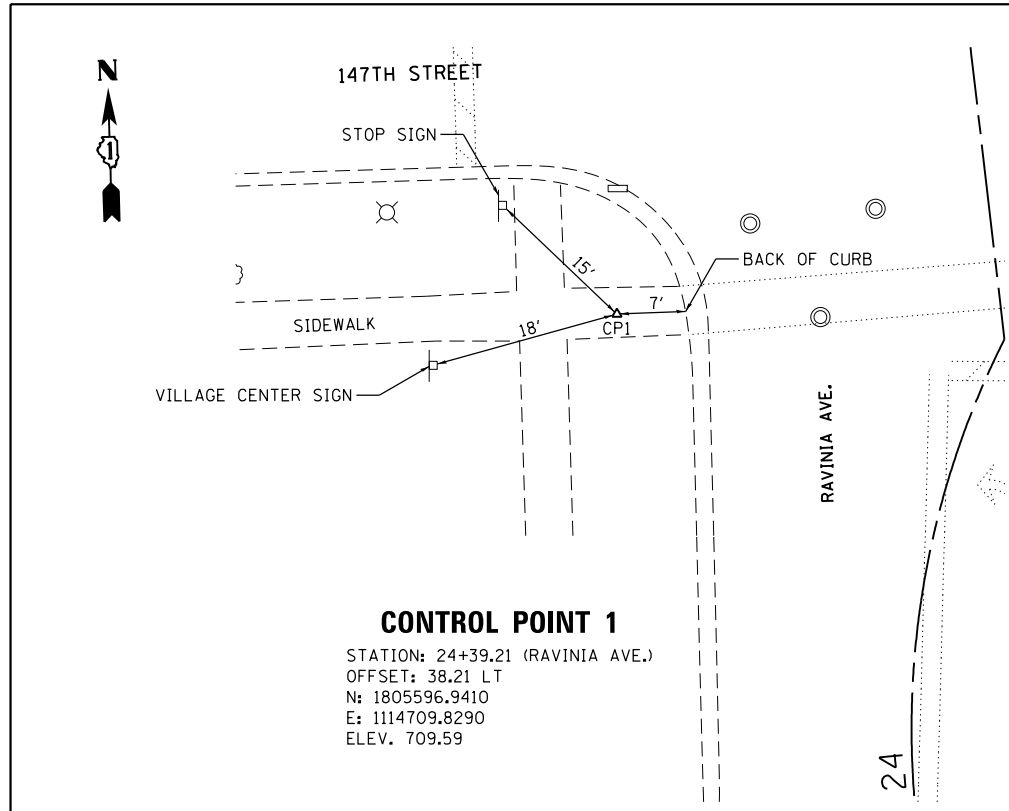
USER NAME = BillP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

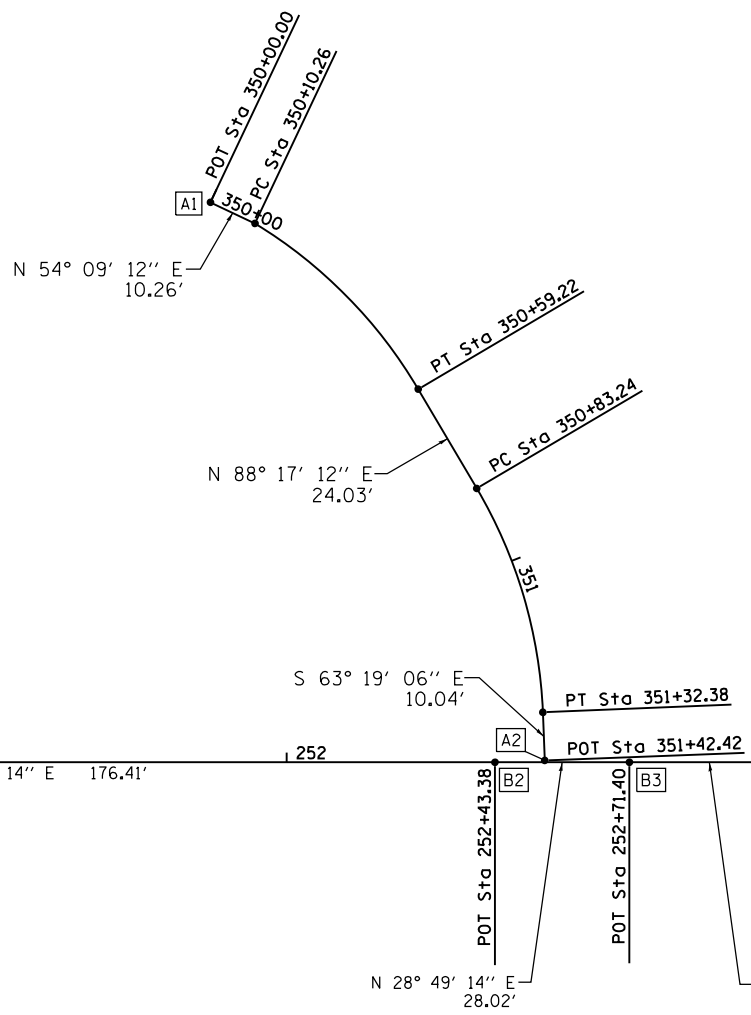
**PRESTAGE ALIGNMENT PLAN
RAVINIA AVENUE**

SCALE: 50 SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	25
CONTRACT NO. 61E48				
ILLINOIS FED. AID PROJECT				



PROP. CURVE PRRVAPATH-1
 PI STA. = 250+38.10
 Δ = 4° 40' 33" (RT)
 D = 8° 05' 33"
 R = 708.00'
 T = 28.90'
 L = 57.78'
 E = 0.59'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 250+09.20
 P.T. STA. = 250+66.97



PROP. CURVE PRENTPATH-1
 PI STA. = 350+35.24
 Δ = 28° 02' 48" (RT)
 D = 57° 17' 45"
 R = 100.00'
 T = 24.98'
 L = 48.95'
 E = 3.07'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 350+10.26
 P.T. STA. = 350+59.22

PROP. CURVE PRENTPATH-2
 PI STA. = 351+08.32
 Δ = 28° 09' 15" (RT)
 D = 57° 17' 45"
 R = 100.00'
 T = 25.08'
 L = 49.14'
 E = 3.10'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 350+83.24
 P.T. STA. = 351+32.38

OUTSIDE EDGE OF PAVEMENT LAYOUT POINTS

PT	NORTHING	EASTING
A1	1804966.5656	1114408.3608
A2	1804971.5177	1114543.8298
B1	1804747.5998	1114424.6121
B2	1804962.2492	1114539.1719
B3	1804986.7971	1114552.6787
B4	1805016.0365	1114568.7669
B5	1805160.3759	1114648.1856

- NOTES:**
- BEARINGS AND COORDINATES ON THIS PLAN SET ARE BASED ON THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM NAD83 (2011).
 - ELEVATIONS SHOWN ON THIS PLAN SET ARE BASED ON NGS VERTICAL POINT DK2032 (NAVD 88).

FILE NAME = \\strand.com\projects\1170\1170-1599\1599-000\Microstation\1170345-sh1-ATB-5.dgn



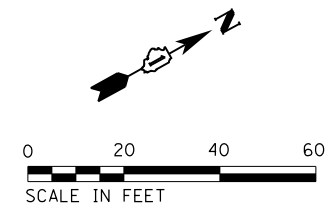
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PLOT SCALE = 48.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION






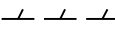
CONTROL POINTS & PATH ALIGNMENTS

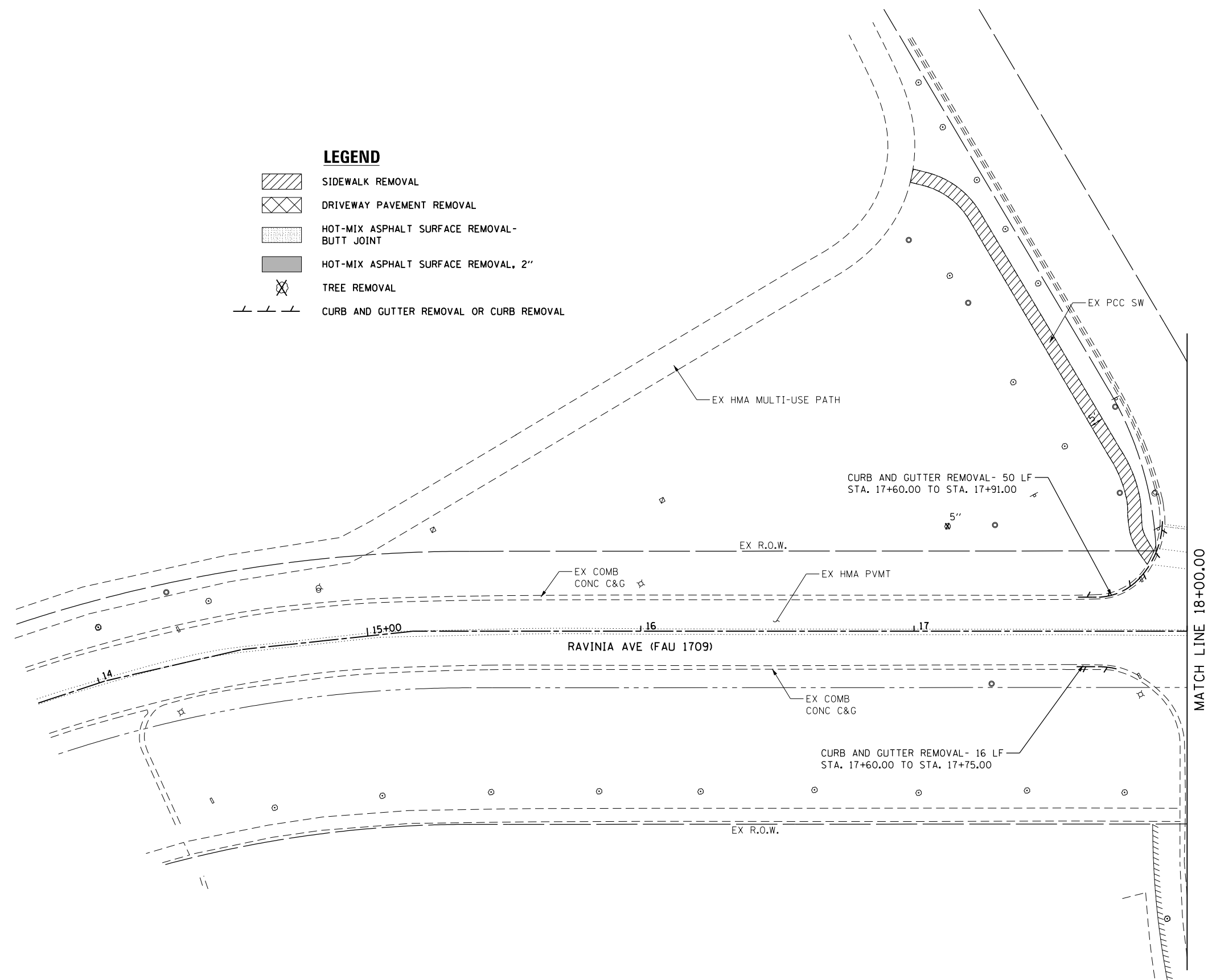
SCALE: 30 SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	26
				CONTRACT NO. 61E48
ILLINOIS FED. AID PROJECT				



LEGEND

	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT
	HOT-MIX ASPHALT SURFACE REMOVAL, 2"
	TREE REMOVAL
	CURB AND GUTTER REMOVAL OR CURB REMOVAL



FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-shr-removal-1.dgn








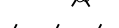
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

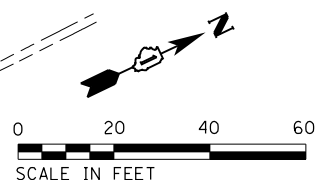
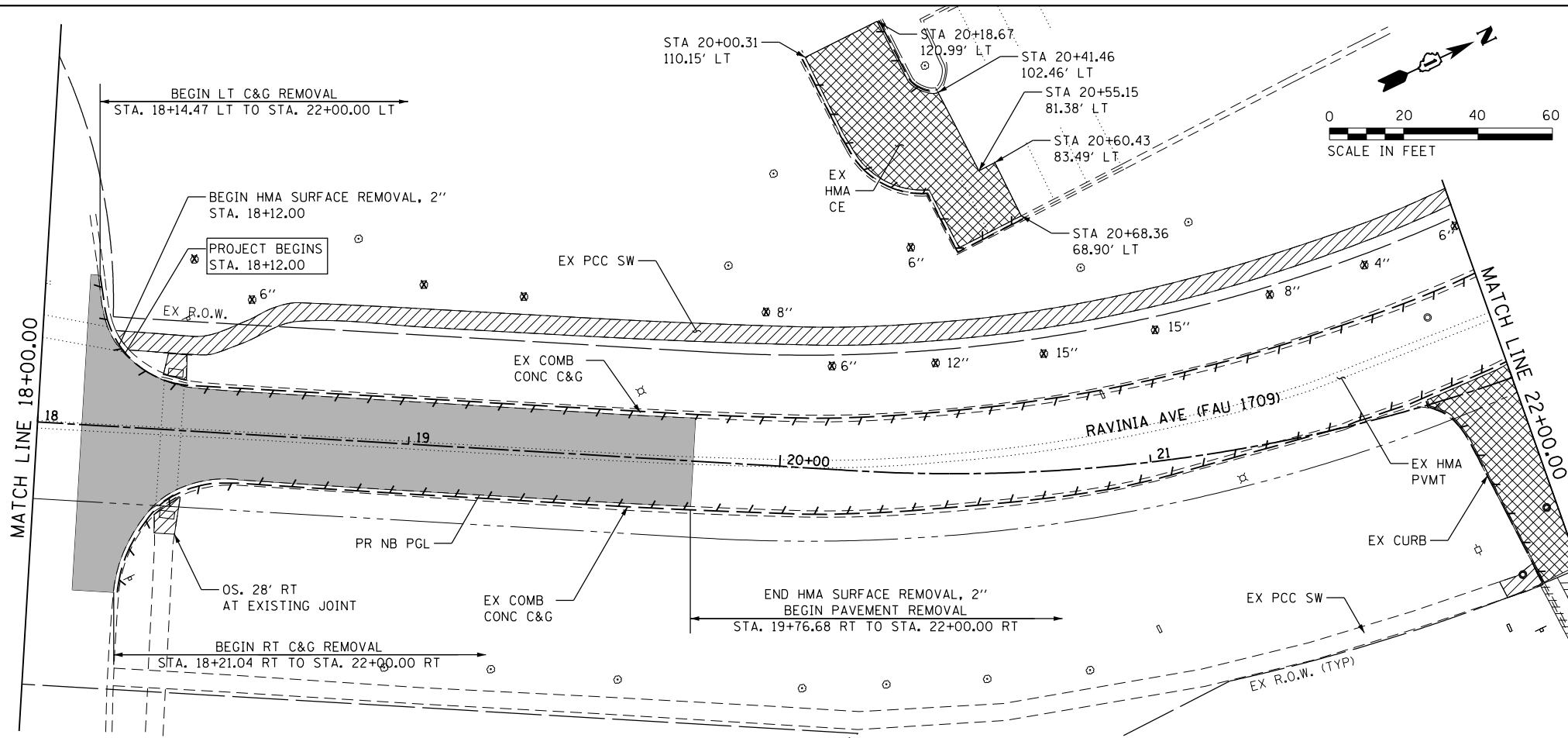
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE REMOVAL PLAN			
SCALE: 20	SHEET 1	OF 3 SHEETS	STA. 14+00 TO STA. 18+00

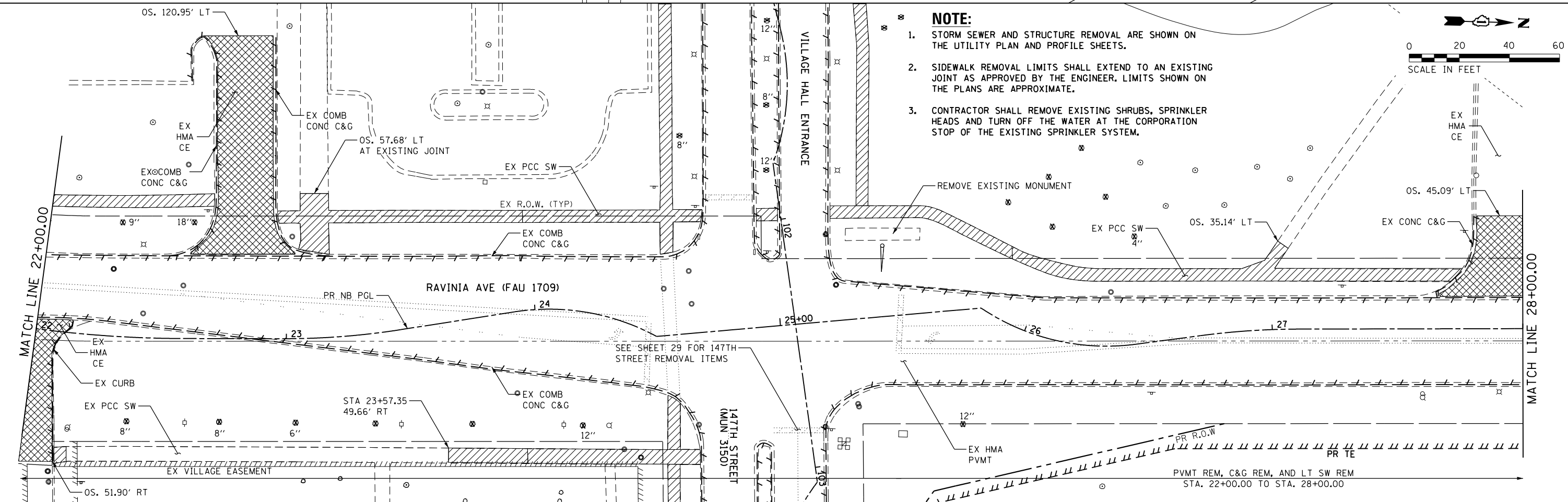
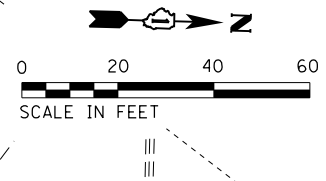
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	27
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

LEGEND


-  SIDEWALK REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
-  HOT-MIX ASPHALT SURFACE REMOVAL, 2"
-  TREE REMOVAL
-  CURB AND GUTTER REMOVAL OR CURB REMOVAL

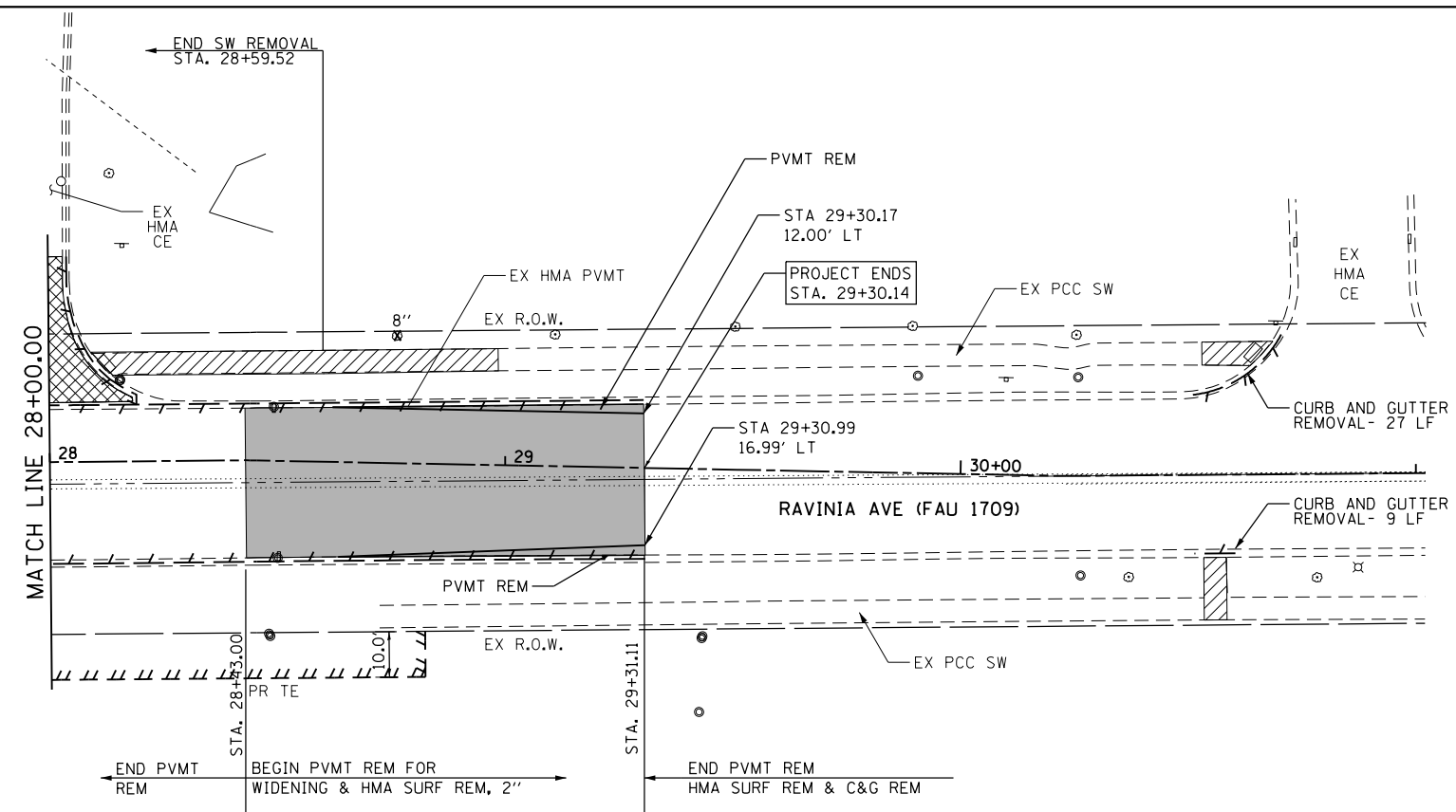
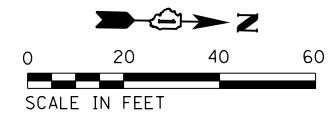


- NOTE:**
1. STORM SEWER AND STRUCTURE REMOVAL ARE SHOWN ON THE UTILITY PLAN AND PROFILE SHEETS.
 2. SIDEWALK REMOVAL LIMITS SHALL EXTEND TO AN EXISTING JOINT AS APPROVED BY THE ENGINEER. LIMITS SHOWN ON THE PLANS ARE APPROXIMATE.
 3. CONTRACTOR SHALL REMOVE EXISTING SHRUBS, SPRINKLER HEADS AND TURN OFF THE WATER AT THE CORPORATION STOP OF THE EXISTING SPRINKLER SYSTEM.



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 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = B11P MODEL NAME = Default PLOT SCALE = 40.0000' / in. PLOT DATE = 1/11/2018	DESIGNED - WRP DRAWN - AJJ CHECKED - MAG DATE - 11/29/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAVINIA AVENUE REMOVAL PLAN		F.A.U. RTE. 1709 SECTION 12-00069-00-CH COUNTY COOK TOTAL SHEETS 131 SHEET NO. 28 CONTRACT NO. 61E48
	SCALE: 20 SHEET 2 OF 3 SHEETS STA. 18+00 TO STA. 28+00				ILLINOIS FED. AID PROJECT		

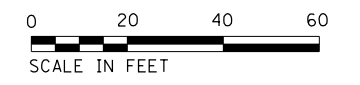
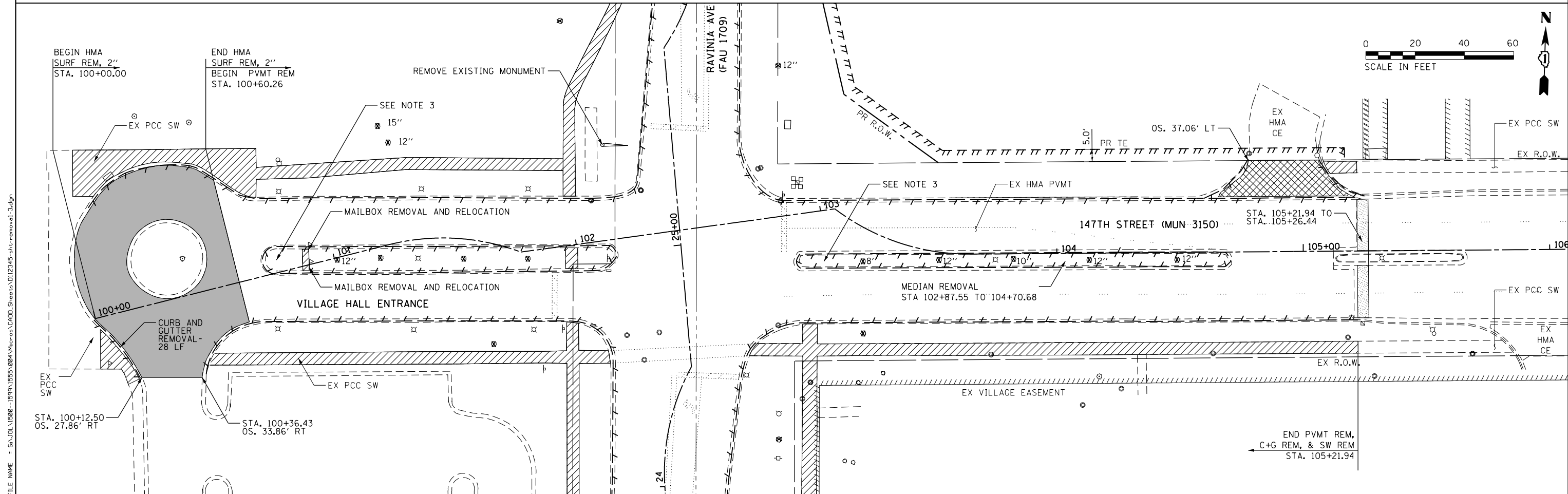


NOTE:

1. STORM SEWER AND STRUCTURE REMOVAL ARE SHOWN ON THE UTILITY PLAN AND PROFILE SHEETS.
2. SIDEWALK REMOVAL LIMITS SHALL EXTEND TO AN EXISTING JOINT AS APPROVED BY THE ENGINEER. LIMITS SHOWN ON THE PLANS ARE APPROXIMATE.
3. CONTRACTOR SHALL REMOVE EXISTING SHRUBS, SPRINKLER HEADS AND TURN OFF THE WATER AT THE CORPORATION STOP OF THE EXISTING SPRINKLER SYSTEM.

LEGEND

	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
	HOT-MIX ASPHALT SURFACE REMOVAL, 2"
	TREE REMOVAL
	CURB AND GUTTER REMOVAL OR CURB REMOVAL



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MODEL NAME = Default	DRAWN - AJJ	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

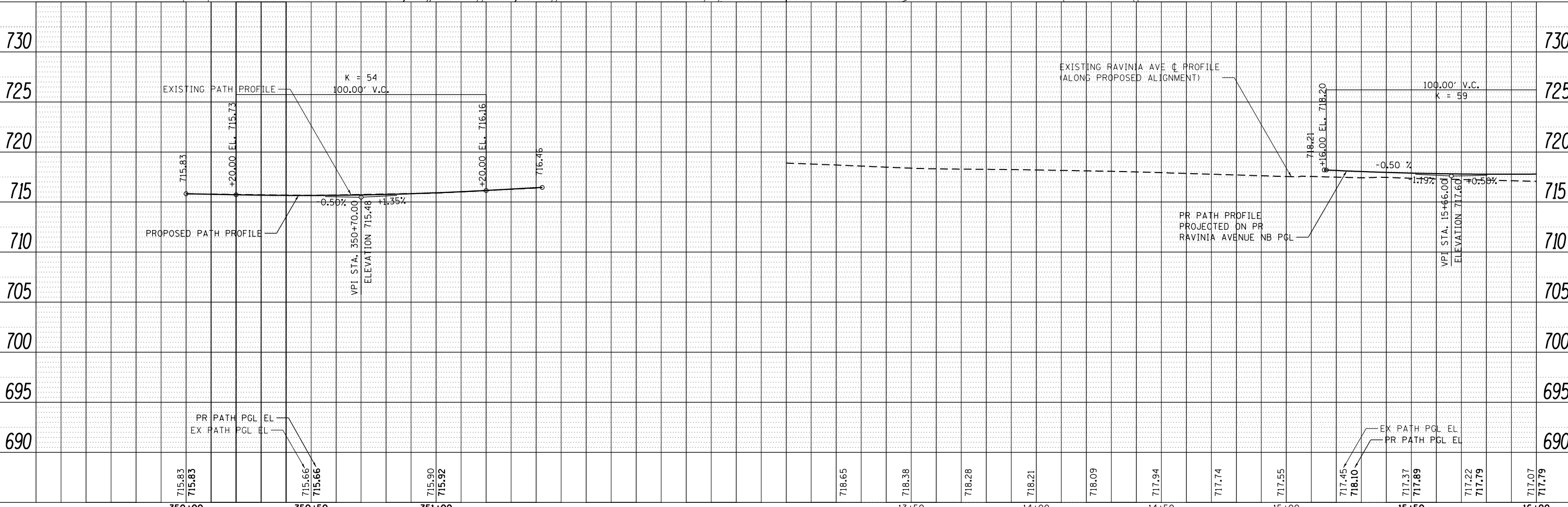
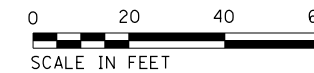
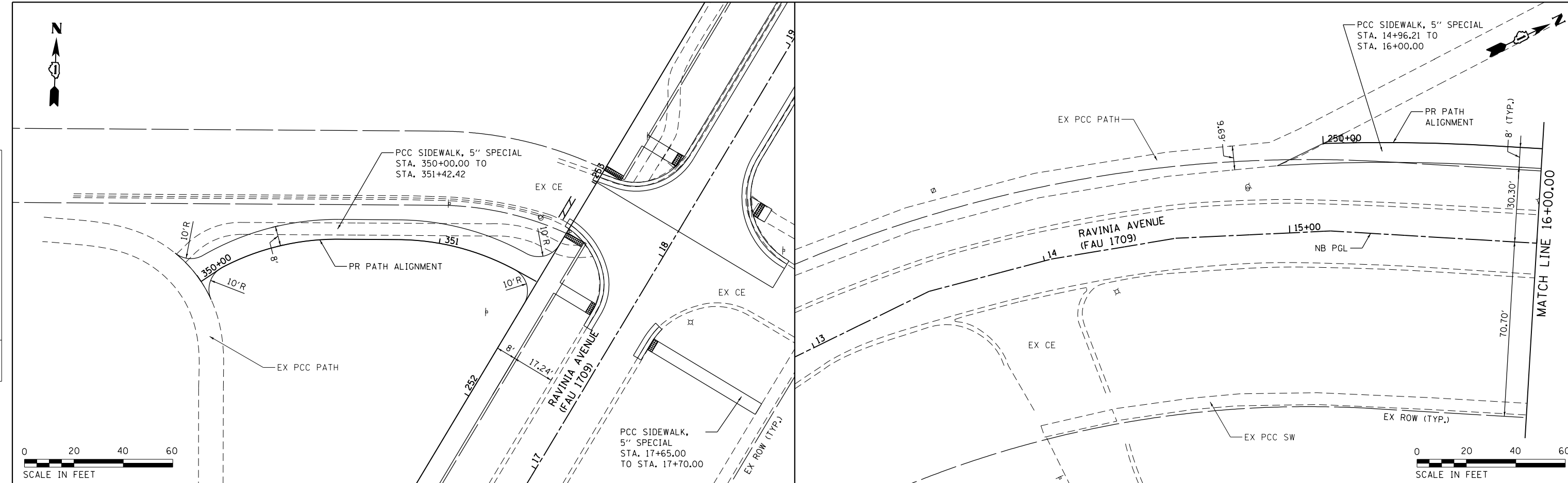
RAVINIA AVENUE AND 147TH STREET REMOVAL PLAN

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	29
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

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



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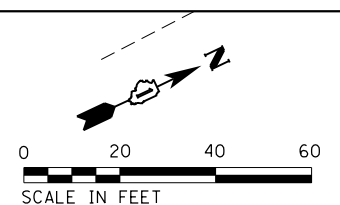
STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME =	B11P	DESIGNED -	WRP	REVISED -	
MODEL NAME =	Default	DRAWN -	AJJ	REVISED -	
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PLOT DATE =	12/15/2017	DATE -	11/29/2017	REVISED -	

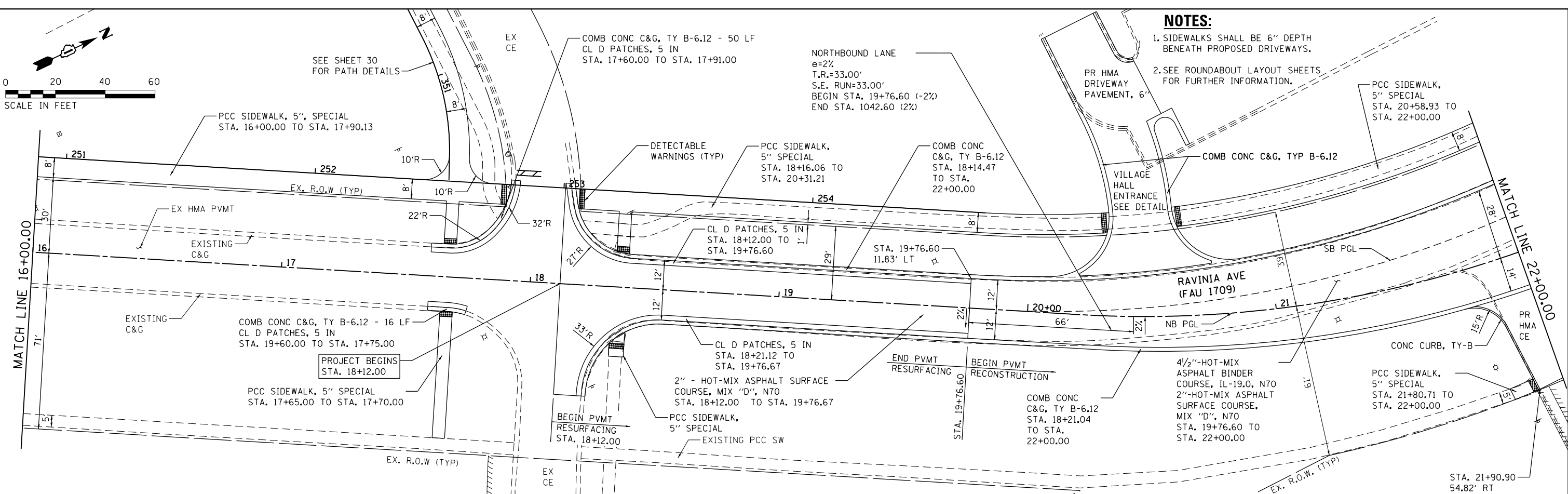
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE PLAN AND PROFILE
 SCALE: 20 SHEET 1 OF 5 SHEETS STA. 13+00 TO STA. 16+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	30
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

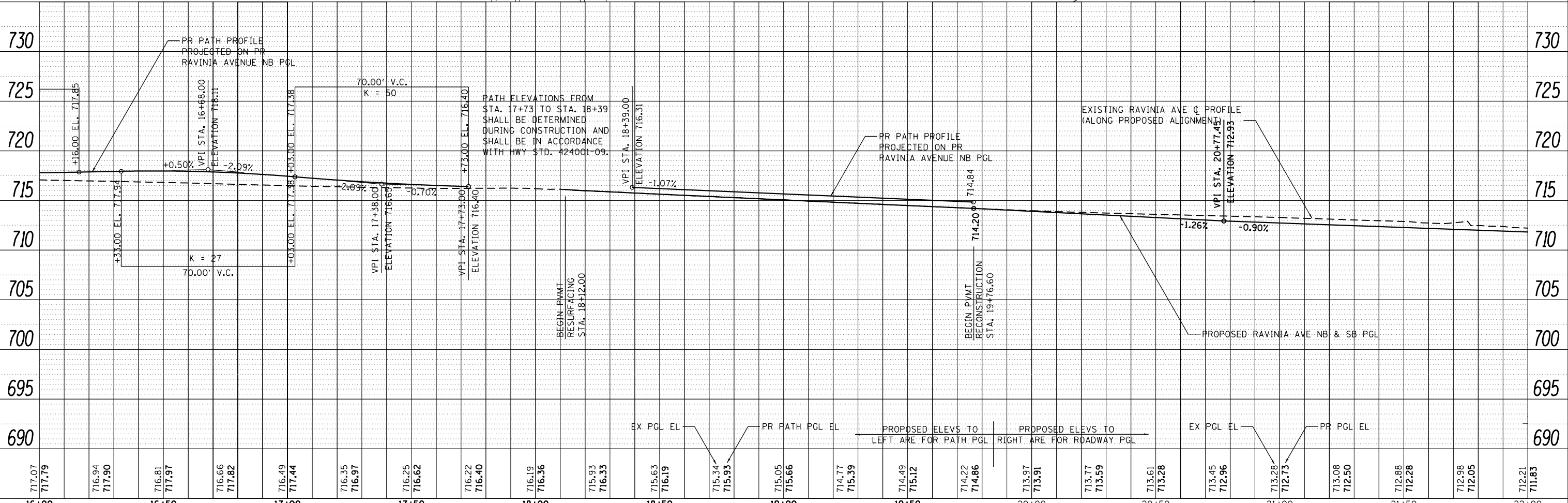


PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



- NOTES:**
1. SIDEWALKS SHALL BE 6" DEPTH BENEATH PROPOSED DRIVEWAYS.
 2. SEE ROUNDABOUT LAYOUT SHEETS FOR FURTHER INFORMATION.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME	= BillP
MODEL NAME	= Default
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 12/15/2017

DESIGNED	- WRP	REVISED	-
DRAWN	- AJJ	REVISED	-
CHECKED	- MAG	REVISED	-
DATE	- 11/29/2017	REVISED	-

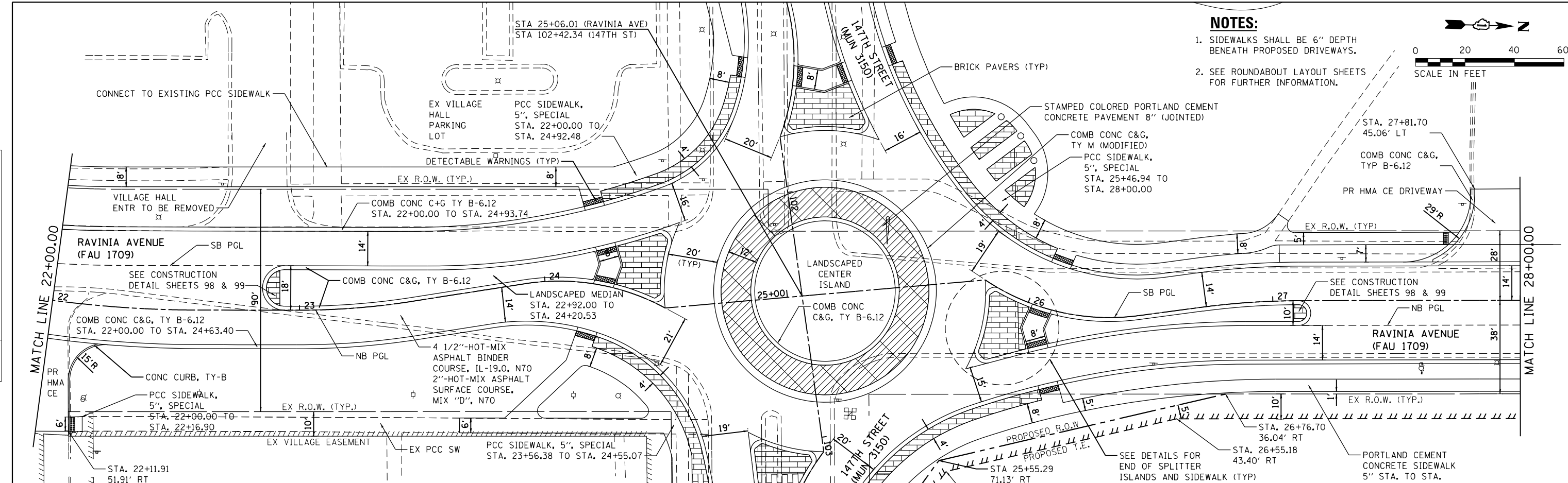
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE PLAN AND PROFILE				
SCALE: 20	SHEET 2	OF 5	SHEETS	STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	31
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	NOTE BOOK	
	NO. _____	
	FILE NAME	

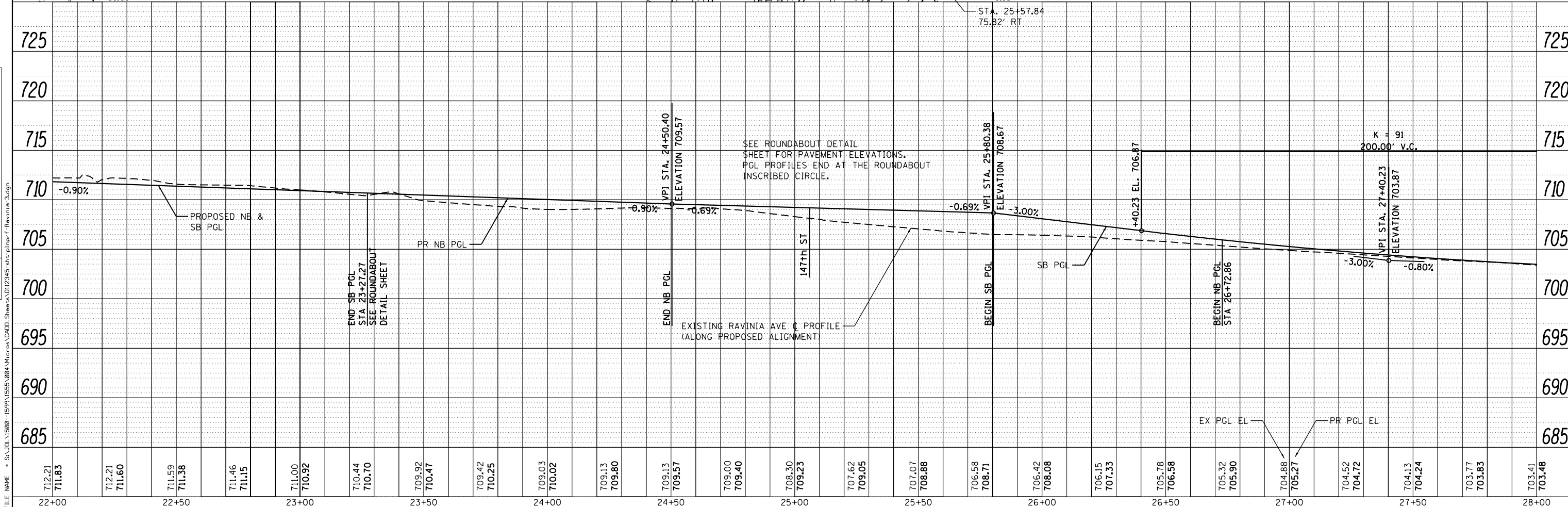
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	NOTE BOOK	
	NO. _____	
	FILE NAME	



NOTES:

- SIDEWALKS SHALL BE 6" DEPTH BENEATH PROPOSED DRIVEWAYS.
- SEE ROUNDABOUT LAYOUT SHEETS FOR FURTHER INFORMATION.

0 20 40 60
SCALE IN FEET



712.21 711.83	712.21 711.60	711.59 711.38	711.46 711.15	711.00 710.92	710.44 710.70	709.92 710.47	709.42 710.25	709.03 710.02	709.13 709.80	709.13 709.57	709.00 709.40	708.30 709.23	707.62 709.05	707.07 708.88	706.58 708.71	706.42 708.08	706.15 707.33	705.78 706.58	705.32 705.90	704.88 705.27	704.52 704.72	704.13 704.24	703.77 703.83	703.41 703.48
22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00												

STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = BillP
MODEL NAME = Default
PLOT SCALE = 40.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

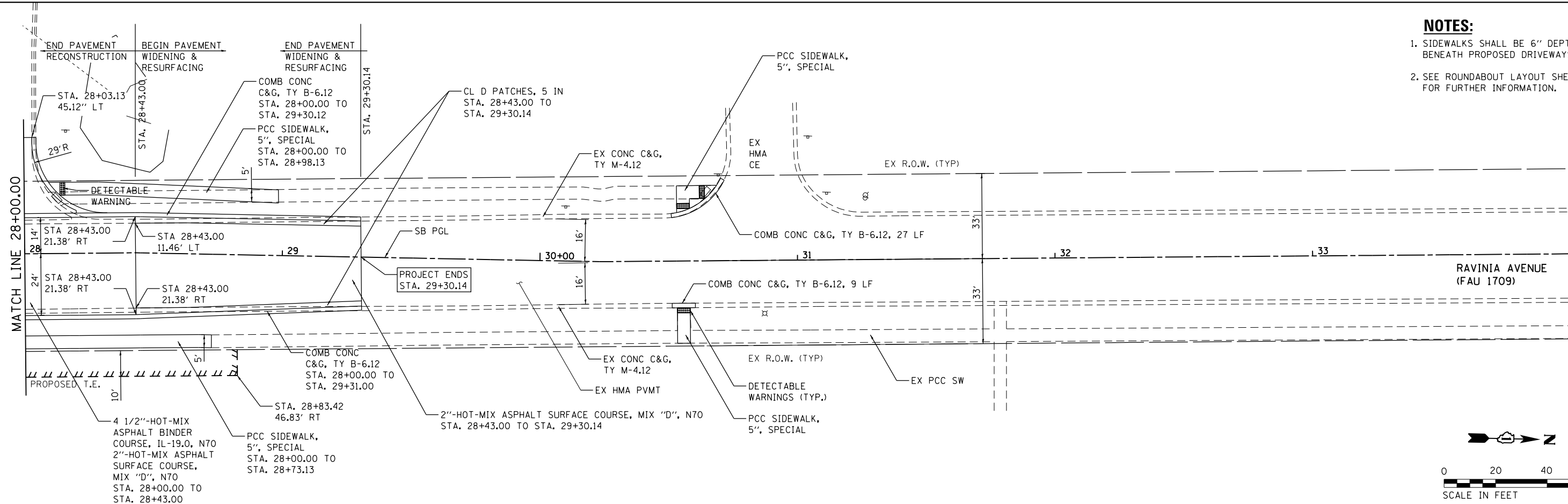
RAVINIA AVENUE PLAN AND PROFILE
SCALE: 20 SHEET 3 OF 5 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RT. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 32
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

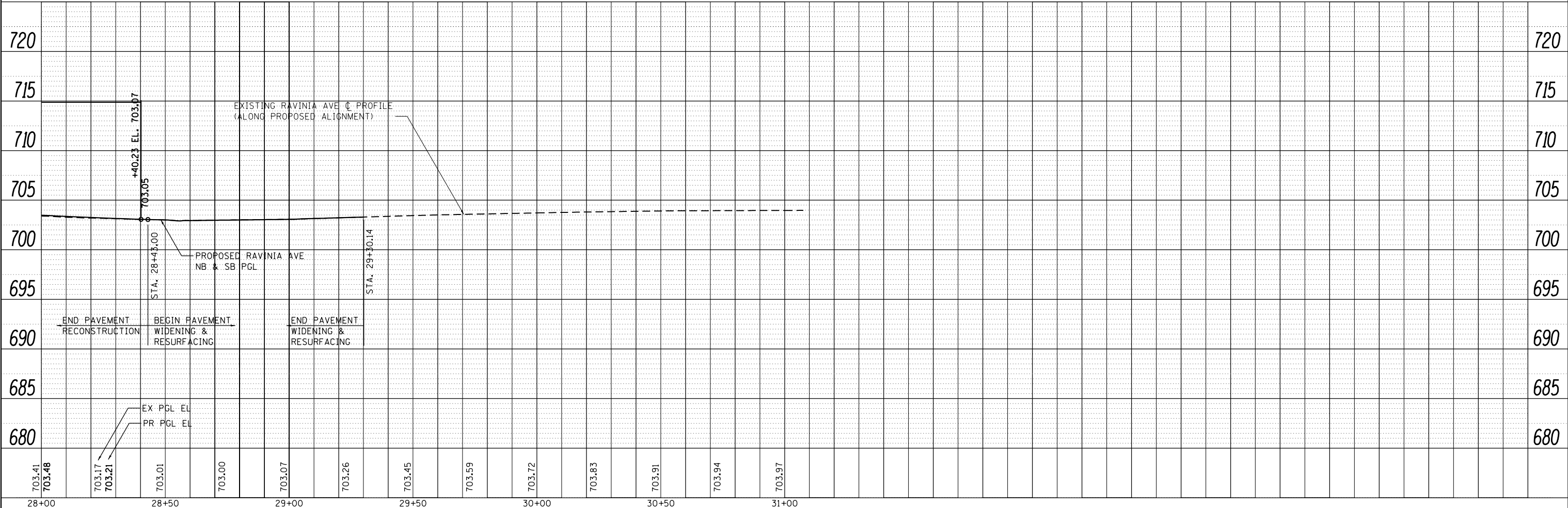
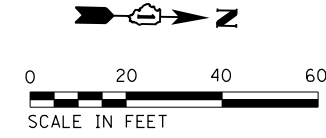
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	PLOTTED	
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	NOTE BOOK NO.	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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	NOTE BOOK NO.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

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- NOTES:**
- SIDEWALKS SHALL BE 6" DEPTH BENEATH PROPOSED DRIVEWAYS.
 - SEE ROUNDABOUT LAYOUT SHEETS FOR FURTHER INFORMATION.



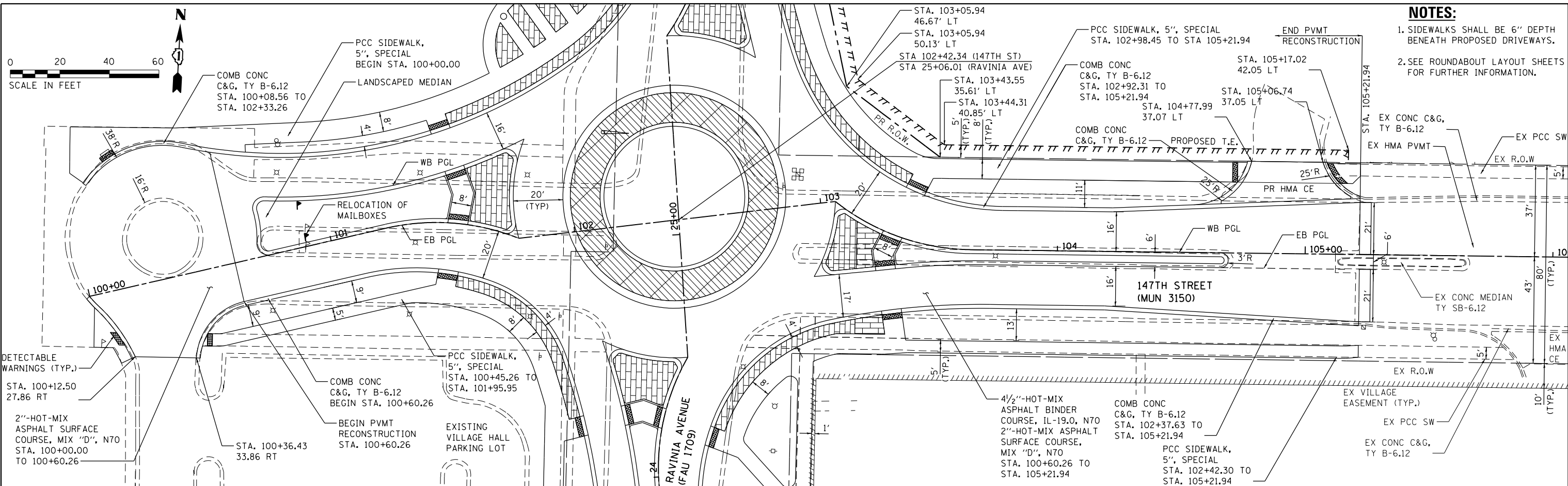
STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

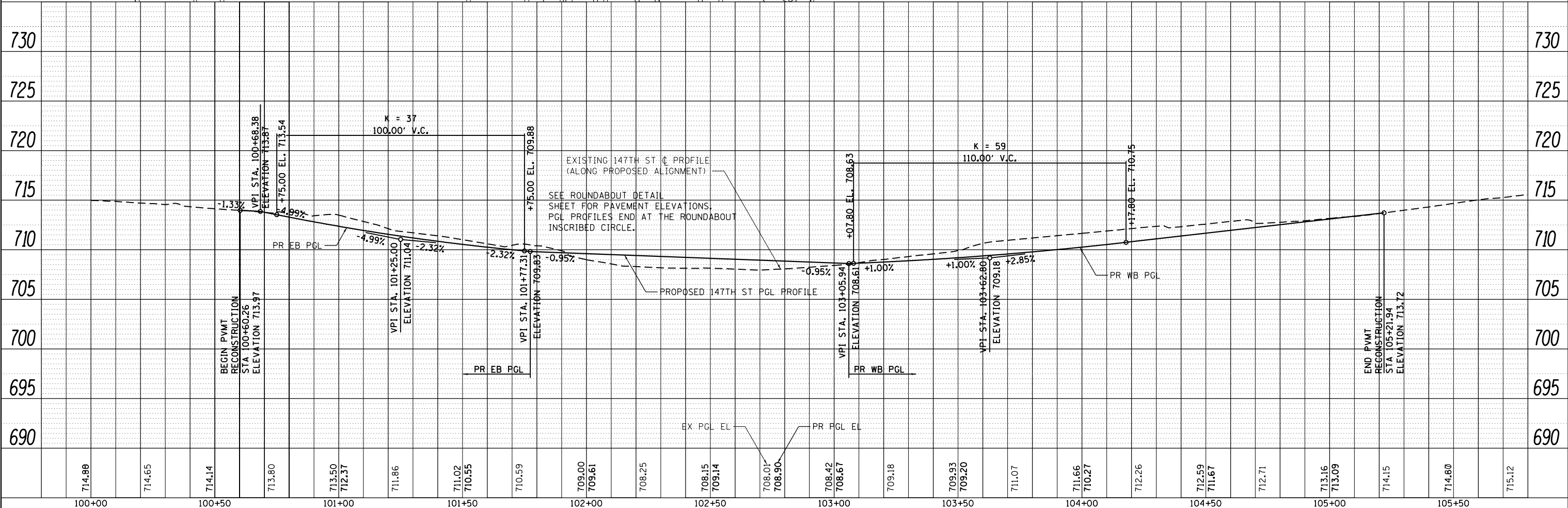
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE PLAN AND PROFILE	
SCALE: 20	SHEET 4 OF 5 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	33
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTES:
 1. SIDEWALKS SHALL BE 6" DEPTH BENEATH PROPOSED DRIVEWAYS.
 2. SEE ROUNDABOUT LAYOUT SHEETS FOR FURTHER INFORMATION.



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO. _____	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	NO. _____	
	STRUCTURE NOTATIONS CHECKED	

STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME =	Bilip	DESIGNED -	WRP	REVISED -	-
MODEL NAME =	Default	DRAWN -	AJJ	REVISED -	-
PLOT SCALE =	40.0000' / in.	CHECKED -	MAG	REVISED -	-
PLOT DATE =	12/15/2017	DATE -	11/29/2017	REVISED -	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

147TH STREET PLAN AND PROFILE

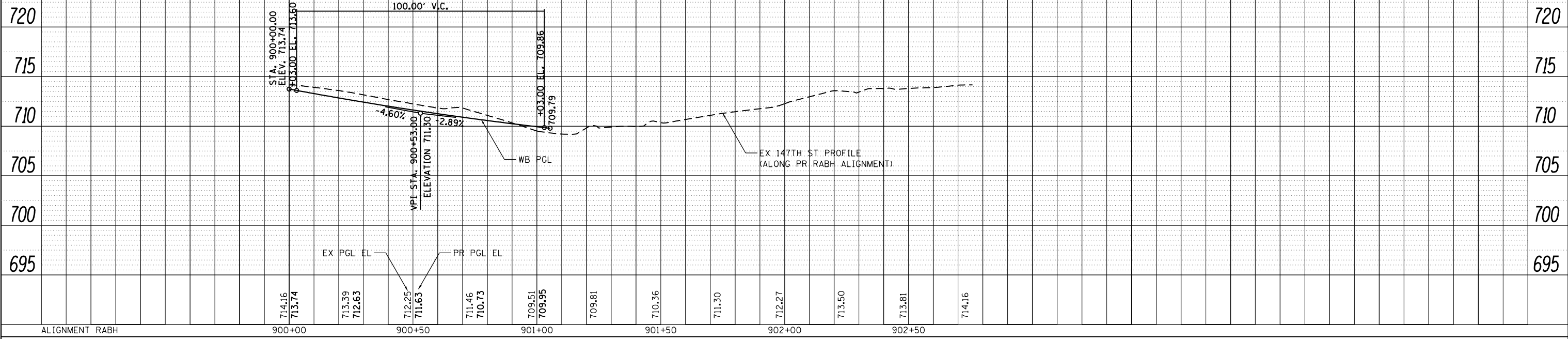
SCALE: 20 SHEET 5 OF 5 SHEETS STA. 100+00 TO STA. 105+69

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	34
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

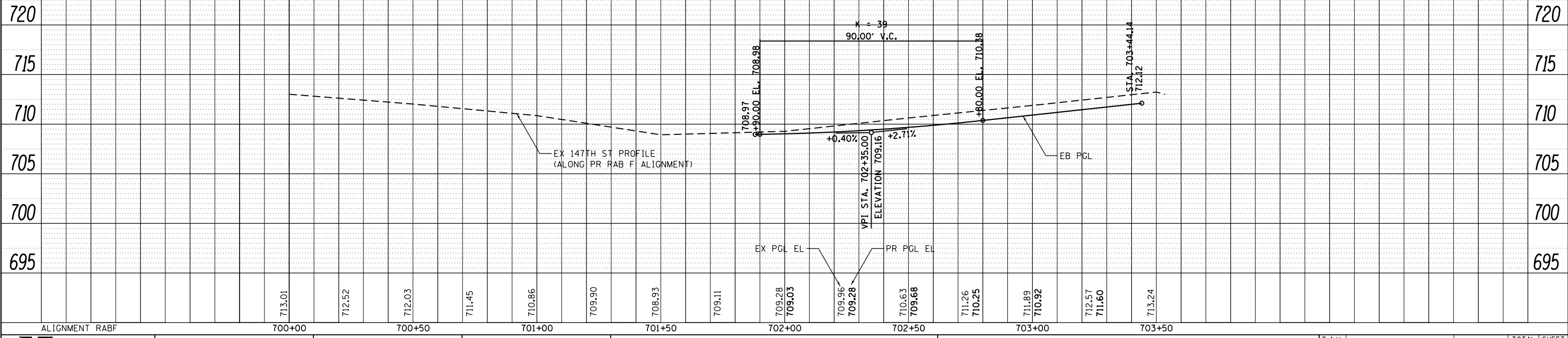
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	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		

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

147TH STREET WEST SPLITTER ISLAND (ALIGNMENT RABH)



147TH STREET EAST SPLITTER ISLAND (ALIGNMENT RABF)



STRAND ASSOCIATES*
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P
MODEL NAME = Default
PLOT SCALE = 40.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

REVISED -
REVISED -
REVISED -
REVISED -

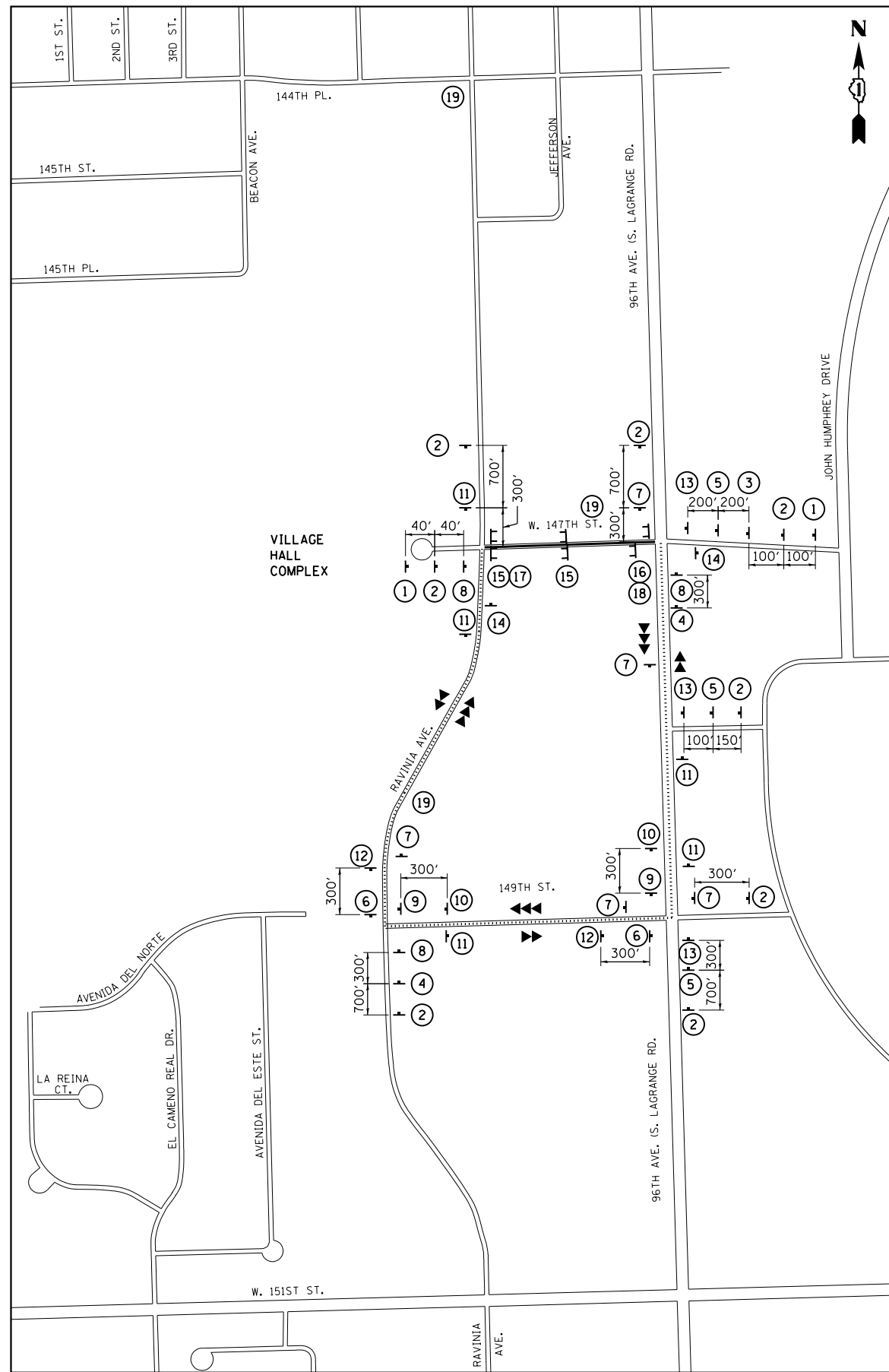
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET
EAST AND WEST SPLITTER ISLAND PROFILES**

SCALE: 20 SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	35
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

FILE NAME = SA:\JUL\1520--1599\1555\084\Micros\CAD\Sheets\112345-shd-detour.dgn

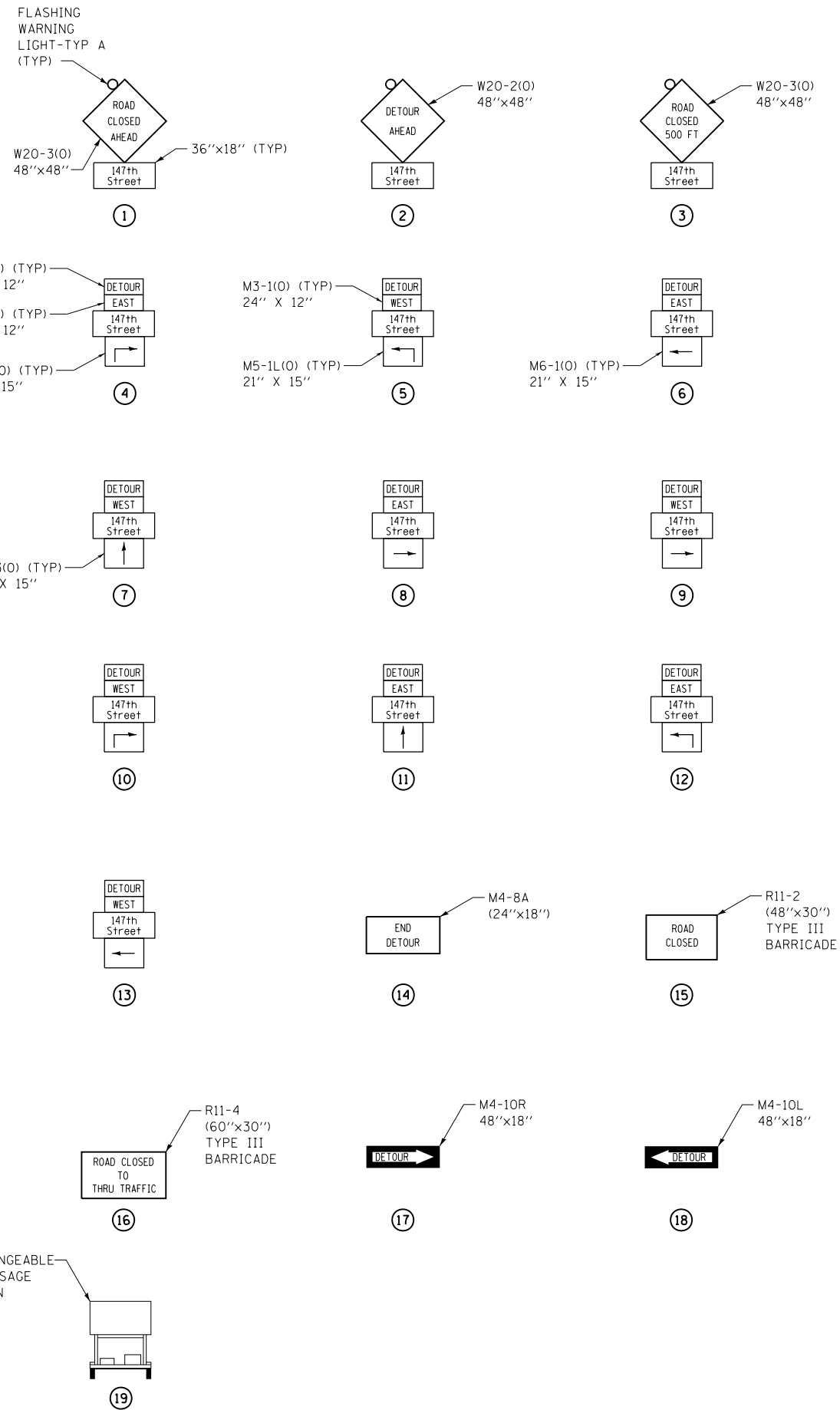


DETOUR NOTES

1. THE CONTRACTOR SHALL CONTACT THE ENGINEER, DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4420, ALL LOCAL AGENCIES, PARK DISTRICT, EMERGENCY SERVICES AND SCHOOL DISTRICTS A MINIMUM OF 72 HOURS PRIOR TO IMPLEMENTING THE DETOUR.
2. THE LOCATIONS OF ALL SIGNS SHOWN ON THE DETOUR PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. EXISTING TRAFFIC SIGNS CONFLICTING WITH THE DETOUR SIGNAGE SHALL BE TEMPORARILY REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
4. ALL DETOUR SIGNS SHALL BE NEW OR IN LIKE-NEW CONDITION. THE ENGINEER SHALL DETERMINE IF THE CONDITION OF THE SIGNS IS SATISFACTORY.
5. ALL DETOUR SIGNS MUST HAVE THEIR OWN SIGN SUPPORTS.

LEGEND:

- ↑ SIGN
- ⊥ TYPE III BARRICADES WITH TWO FLASHING LIGHTS
- ▶▶ EASTBOUND DETOURED TRAFFIC
- ◀◀ WESTBOUND DETOURED TRAFFIC
- PROPOSED DETOUR
- ROAD CLOSED



SUGGESTED CONSTRUCTION OPERATIONS

PRE-STAGE

RAVINIA AVENUE

MAINTAIN EXISTING 2-WAY TRAFFIC. INSTALL PERMANENT CURB AND GUTTER AND SIDEWALK FROM STA. 14+96.21 TO STA. 18+00.00 AND NORTH/SOUTH CURB RAMP ON THE WEST SIDE AT STA. 18+30.00. INSTALL PERMANENT SIDEWALK, CROSSWALK, AND CURB AND GUTTER FROM STA. 30+50.00 TO STA. 30+72.00 ON BOTH SIDES OF RAVINIA AVENUE. INSTALL PROPOSED STORM SEWER STRUCTURES ON EXISTING TRUNK STORM SEWER LINE ACCORDING TO HIGHWAY STANDARD 701501. INSTALL TEMPORARY PAVEMENT ALONG THE WEST EDGE OF RAVINIA AVENUE ACCORDING TO HIGHWAY STANDARD 701006. REMOVE EXISTING LIGHTING IN CONFLICT WITH THE TEMPORARY PAVEMENT. PRIOR TO REMOVAL OF EXISTING SIDEWALK ON THE WEST SIDE OF THE STREET NORTH OF 147TH STREET, CONSTRUCT TEMPORARY SIDEWALK ON THE WEST OF RAVINIA AVENUE 2 FEET FROM THE TEMPORARY EDGE OF PAVEMENT AT LOCATIONS SHOWN ON THE PLANS.

147TH STREET

MAINTAIN EXISTING 2-WAY TRAFFIC.

STAGE 1

RAVINIA AVENUE

INSTALL SIGNING RELATED TO SIDEWALK CLOSURE ACCORDING TO IDOT HIGHWAY STANDARD 701801. INSTALL STAGE 1 TRAFFIC CONTROL AS SHOWN ON THE PLANS. MAINTAIN 2-WAY TRAFFIC BY UTILIZING THE TEMPORARY PAVEMENT ALONG THE WEST EDGE OF RAVINIA AVENUE. CONSTRUCT ALL STORM SEWER LINES AND STRUCTURES EAST OF THE STORM SEWER TRUNK LINE AS WELL AS THE TRUNK LINE. TEMPORARY LANE CLOSURES USED TO CONSTRUCT THE STORM SEWER SHALL BE ACCORDING TO HIGHWAY STANDARDS 701301, 701311, AND 701501. CONSTRUCT NORTHBOUND AND SOUTHBOUND PERMANENT PAVEMENT FROM STATION 19+76.59 TO STATION 21+31.25. CONSTRUCT NORTHBOUND PAVEMENT, TEMPORARY PAVEMENT, AND SECTIONS OF MEDIAN FROM STATION 21+31.25 TO STATION 28+43.00. ALL MEDIANS SHALL BE CONSTRUCTED FLUSH WITH THE PAVEMENT. NO MEDIAN CURB AND GUTTER OR RAISED MEDIAN SHALL BE CONSTRUCTED AS A PART OF STAGE 1 ALONG RAVINIA AVENUE. WIDEN AND RECONSTRUCT EAST EDGE OF PAVEMENT FROM STATION 28+43.00 TO STATION 29+30.14. RECONSTRUCTION SHALL BE A MINIMUM OF 2 FEET WIDE. INSTALL TEMPORARY PAVEMENT MARKINGS TO BE USED IN STAGE 2. CONSTRUCT ALL PROPOSED PATH AND SIDEWALK ALONG EAST SIDE OF RAVINIA AVENUE. ALL WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARD 701006. AS A PART OF STAGE 1B, SHIFT NORTHBOUND TRAFFIC TO PERMANENT NORTHBOUND TRAVEL LANE CONSTRUCTED DURING STAGE 1 FROM STA. 18+00.00 TO STA. 22+58.96. AS A PART OF STAGE 1C, TEMPORARILY CLOSE THE INTERSECTION FOR ONE NIGHT TO CONSTRUCT TEMPORARY PAVEMENT (VARIABLE DEPTH) WITHIN INTERSECTION TO BRIDGE EXISTING PAVEMENT WITH NEWLY CONSTRUCTED PAVEMENT.

147TH STREET

AS A PART OF STAGE 1A, INSTALL DETOUR AS SHOWN IN DRAWINGS ACCORDING TO DISTRICT 1 STANDARD TC21 FOR A MAXIMUM OF 30 CONSECUTIVE CALENDAR DAYS. CLOSE EAST LEG OF ROADWAY. COMMERCIAL ENTRANCE AT STATION 104+90 LT SHALL REMAIN ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT THE EAST LEG OF 147TH STREET AS SHOWN IN THE DRAWINGS, INCLUDING THE RAISED SPLITTER ISLAND. THE PROPOSED SHARED-USE PATH ON THE SOUTH SIDE OF 147TH STREET SHALL NOT BE CONSTRUCTED AND THE EXISTING SIDEWALK AND CROSSWALK ON THE SOUTH SIDE OF THE RAVINIA AVENUE AT 147TH STREET INTERSECTION SHALL REMAIN OPEN THROUGHOUT STAGE 1A. CONSTRUCT A TEMPORARY SIDEWALK RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION TO BE USED IN STAGE 2. THE EAST LEG OF 147TH STREET SHALL REMAIN CLOSED DURING STAGE 1B. CONSTRUCT THE PROPOSED SHARED-USE PATH, PAVEMENT, AND CURB AND GUTTER ON THE SOUTH SIDE OF THE STREET ACCORDING TO THE DRAWINGS. CONSTRUCT A TEMPORARY SIDEWALK RAMP AND CROSSWALK ON THE NORTH SIDE OF 147TH STREET. CONSTRUCT TEMPORARY PAVEMENT MARKINGS ALONG 147TH STREET ACCORDING TO FINAL PROPOSED PAVEMENT MARKING LAYOUT. MAINTAIN EXISTING ROADWAY TRAFFIC GEOMETRY ON WEST LEG OF 147TH STREET. AS A PART OF STAGE 1C, TEMPORARILY CLOSE THE INTERSECTION FOR ONE NIGHT TO CONSTRUCT TEMPORARY PAVEMENT WITHIN INTERSECTION.

STAGE 2

RAVINIA AVENUE

EXISTING 30 MPH POSTED SPEED LIMIT WILL BE MAINTAINED BUT 20 MPH ADVISORY SPEED SIGNS SHALL BE INSTALLED AT HORIZONTAL CURVES ACCORDING TO DRAWINGS. INSTALL STAGE 2 TRAFFIC CONTROL AS SHOWN ON THE DRAWINGS. MAINTAIN 2-WAY TRAFFIC ALONG RAVINIA AVENUE. CONSTRUCT SOUTHBOUND PERMANENT PAVEMENT AND SECTIONS OF MEDIAN FROM STATION 21+31.25 TO STATION 28+43.00. NEW PROPOSED DRIVEWAY LOCATED AT STATION 20+50 LT MUST BE CONSTRUCTED AND OPENED TO THE PUBLIC PRIOR TO REMOVING THE EXISTING DRIVEWAY LOCATED AT STATION 22+85 LT. WIDEN AND RECONSTRUCT WEST EDGE OF PAVEMENT FROM STA. 18+12.00 TO STA. 19+76.00 AND STA. 28+43.00 TO STA. 29+30.14. RECONSTRUCTION SHALL BE A MINIMUM OF 2 FEET WIDE. INSTALL TEMPORARY PAVEMENT MARKINGS ACCORDING TO FINAL PROPOSED PAVEMENT MARKING LAYOUT TO BE USED IN STAGE 3. CONSTRUCT ALL PROPOSED PATH AND SIDEWALK ALONG WEST SIDE OF RAVINIA AVENUE. CONSTRUCT ALL PROPOSED PERMANENT LIGHTING. INSTALL TEMPORARY LIGHTING SYSTEM AS DIRECTED BY THE ENGINEER.

SUGGESTED CONSTRUCTION OPERATIONS (CONT.)

STAGE 2 (CONT.)

147TH STREET

CONSTRUCT A TEMPORARY SIDEWALK AND CROSSWALK ON THE SOUTH SIDE OF THE VILLAGE HALL ENTRANCE. THIS SIDEWALK RAMP SHALL REMAIN OPEN THROUGHOUT STAGE 2 AND STAGE 2A. AS PART OF STAGE 2A, CLOSE ENTRANCE INTO VILLAGE HALL AT WEST LEG OF INTERSECTION. CONSTRUCT WEST LEG OF INTERSECTION FROM STATION 100+60.26 TO INTERSECTION WITH RAVINIA AVENUE INCLUDING SPLITTER ISLAND ACCORDING TO THE DRAWINGS. EXISTING SIDEWALK ON THE SOUTH SIDE OF THE VILLAGE ENTRANCE SHALL REMAIN AS EXISTING THROUGHOUT STAGE 2 AND 2A. EAST LEG OF 147TH STREET WILL REMAIN OPEN FOR TWO-WAY TRAFFIC. CONSTRUCT ALL PROPOSED PERMANENT LIGHTING. ENTRANCE INTO VILLAGE HALL AT WEST LEG OF INTERSECTION SHALL REMAIN CLOSED FOR STAGE 2B. CONSTRUCT PROPOSED SHARED-USE PATH ON THE SOUTH SIDE OF VILLAGE HALL ENTRANCE AS A PART OF STAGE 2B. VILLAGE HALL ENTRANCE SHALL BE CLOSED A MAXIMUM OF 30 CONSECUTIVE CALENDAR DAYS AS PART OF STAGE 2A AND 2B COMBINED.

STAGE 3

ALL

INSTALL STAGE 3 TRAFFIC CONTROL AS SHOWN ON THE DRAWINGS. INSTALL PORTABLE CHANGEABLE MESSAGE SIGN AT CONSTRUCTION LIMITS INDICATING INTERSECTION IS UNDER YIELD CONTROL. TRAFFIC CONTROL CONSISTS OF UTILIZING FINAL PROPOSED TRAVEL LANES. CONSTRUCT ALL CURB AND GUTTER, MEDIANS, AND ADJACENT PATCHING FOR SPLITTER ISLANDS AND CENTRAL ISLAND. TEMPORARY LANE CLOSURES SHALL BE UTILIZED TO CONSTRUCT ALL ASPECTS OF STAGE 3 ACCORDING TO HIGHWAY STANDARDS 701301, 701311, AND 701501.

STAGE 4

ALL










ALL OF STAGE 4 CONSTRUCTION SHALL OCCUR DURING ONE NIGHT FROM 8 P.M. TO 6 A.M. MILL 2 INCHES OF RAVINIA AVENUE FROM 18+12.00 TO 19+76.60 AND FROM STA. 28+43.00 TO STATION 29+30.14. MILL 2 INCHES OF 147TH STREET FROM STATION 100+00.00 TO STATION 100+60.26. PAVE SURFACE COURSE THROUGHOUT ENTIRE PROJECT. INSTALL SHORT-TERM PAVEMENT MARKINGS ACCORDING TO LOCATIONS OF PERMANENT PAVEMENT MARKING DESIGN.

STAGE 5

ALL

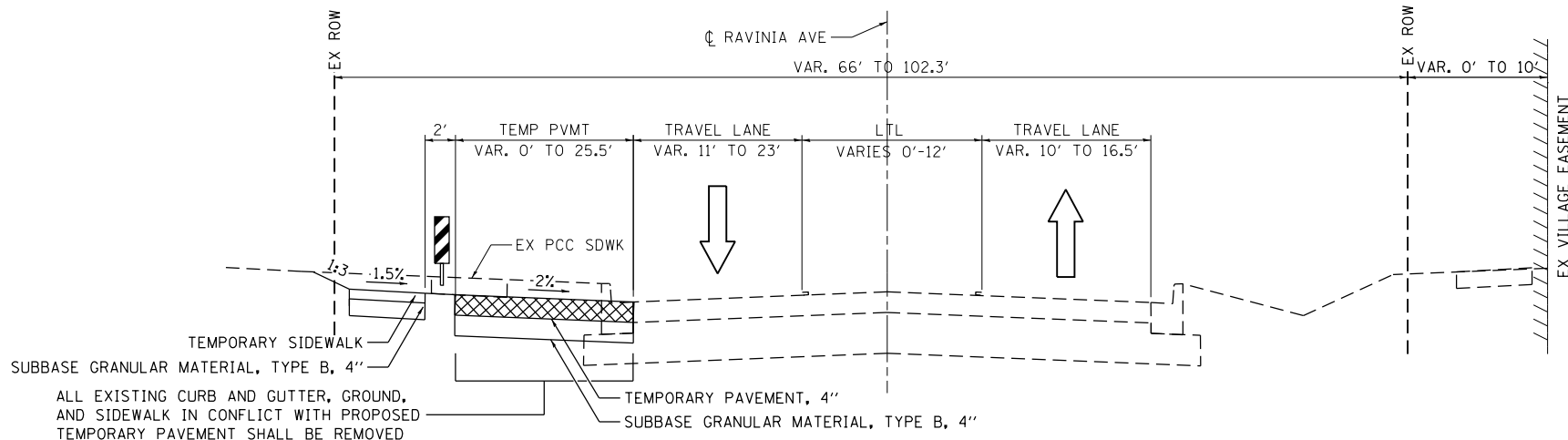
INSTALL PERMANENT PAVEMENT MARKINGS. COMPLETE LANDSCAPING WORK. REMOVE TEMPORARY EROSION CONTROL ITEMS.

LEGEND

-  TEMPORARY PAVEMENT MARKING LINE - 24-IN., WHITE
-  TYPE II BARRICADES/DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT PLACED AT 50' C-C ON TANGENTS, 20' C-C IN TAPERS, AND 10' C-C IN RADII.
-  SIGN (SHOWN FACING LEFT)
-  TYPE III BARRICADE WITH TWO FLASHING LIGHTS
-  VERTICAL PANEL
-  DIRECTION OF TRAFFIC INDICATORS
-  TEMPORARY PAVEMENT
-  CONSTRUCTION AREA - INCLUDING COMPLETE PAVEMENT STRUCTURE, ACCORDING TO TYPICAL CROSS SECTIONS, UNLESS OTHERWISE NOTED. CONSTRUCTION SHALL BE EXTENDED TO JOINTS.
-  MONO-DIRECTIONAL FLASHING LIGHT

GENERAL NOTES

1. ALL TEMPORARY LANES SHALL MAINTAIN AN 9-FT MINIMUM WIDTH.
2. BARRICADES/DRUMS USED DURING CONSTRUCTION SHALL BE PLACED 20 FT. APART ALONG ALL TAPERS, 10 FT. APART ALONG RADII, AND 50 FT. APART ALONG ALL TANGENTS.
3. ALL UNDERGROUND UTILITY WORK SHALL BE COORDINATED WITH THE SUGGESTED MAINTENANCE OF TRAFFIC.
4. ALL DRIVEWAYS SHALL MAINTAIN ACCESS AT ALL TIMES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER. COMMERCIAL DRIVEWAY ENTRANCES SHALL UTILIZE "DRIVEWAY ENTRANCE" SIGN SHOWN ON TC-26.
5. SAW CUTTING OF THE EXISTING PAVEMENT FOR SUBSEQUENT STAGE CONSTRUCTION SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
6. ALL TEMPORARY PAVEMENT MARKINGS IN CONFLICT OR NO LONGER NEEDED MUST BE REMOVED BEFORE STARTING THE NEW TRAFFIC CONFIGURATION FOR NEXT MOT STAGE.
7. DROP-OFFS FROM THE EXISTING OR PROPOSED EDGE OF PAVEMENT SHALL NOT EXCEED 36".
8. THE CONTRACTOR SHALL NOTIFY ALL LOCAL AGENCIES, EMERGENCY SERVICES AND SCHOOL DISTRICTS THAT WILL BE AFFECTED BY ANY ROAD CLOSURES 72 HOURS PRIOR TO THEIR IMPLEMENTATION.
9. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE MESSAGES SHOWN SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN" PER CALENDAR DAY.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
11. ALL CURB RAMPS ADJACENT TO BINDER COURSE AND CURB AND GUTTER SHALL HAVE A TEMPORARY ASPHALT RAMP (TEMPORARY RAMP (SPECIAL)) NOT EXCEEDING 8 PERCENT SLOPE. TEMPORARY RAMPS SHALL BE REMOVED PRIOR TO PAVING THE SURFACE COURSE.
12. DETECTABLE WARNINGS ON TEMPORARY SIDEWALK SHALL BE CONSTRUCTED ON PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL.



PRE-STAGE TYPICAL SECTION

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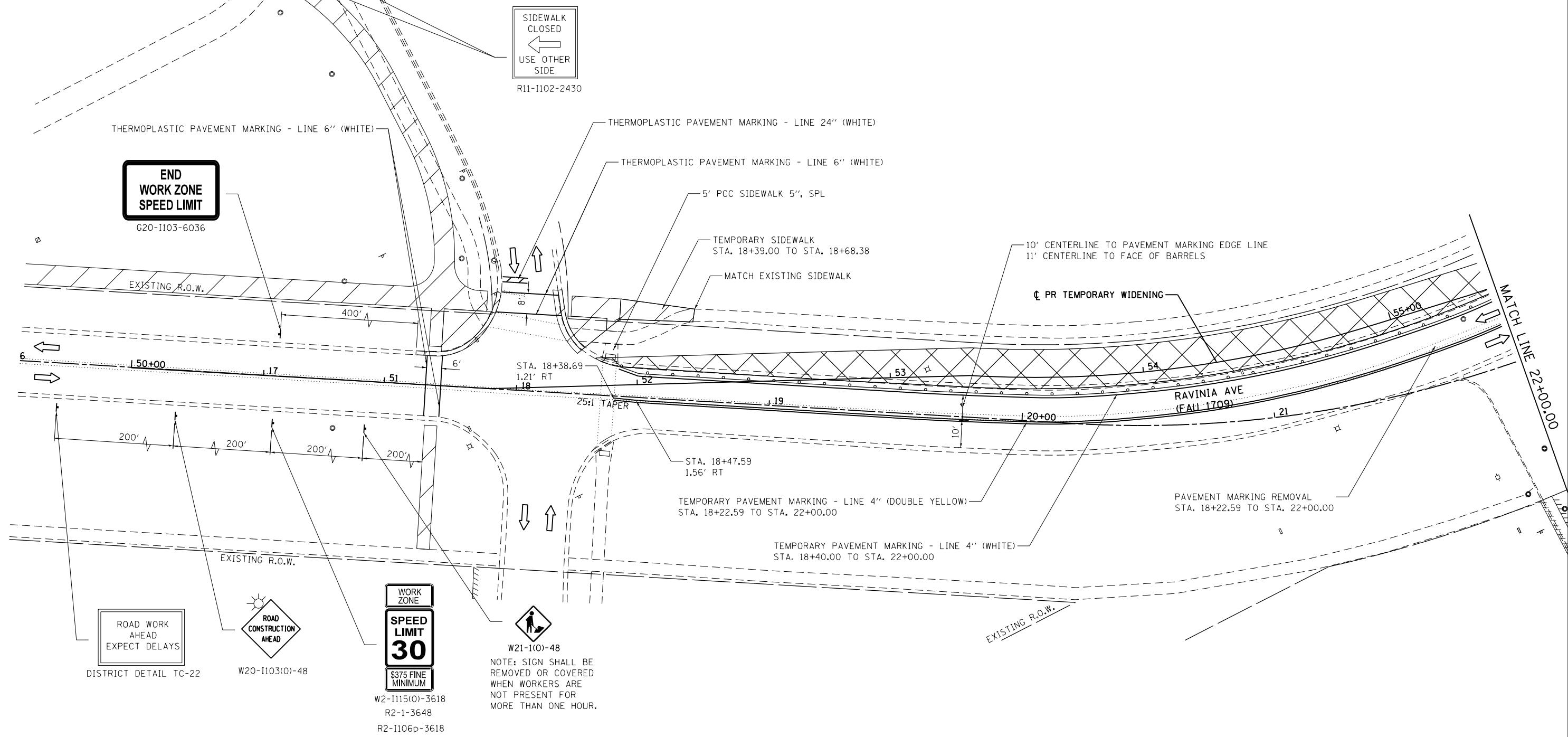
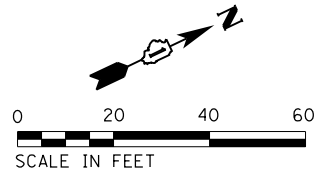
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND
TRAFFIC CONTROL: LEGEND & GENERAL NOTES**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	37
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



**END
WORK ZONE
SPEED LIMIT**
G20-1103-6036

SIDEWALK
CLOSED
←
USE OTHER
SIDE
R11-1102-2430

ROAD WORK
AHEAD
EXPECT DELAYS
DISTRICT DETAIL TC-22

ROAD
CONSTRUCTION
AHEAD
W20-1103(0)-48

WORK
ZONE
**SPEED
LIMIT
30**
\$375 FINE
MINIMUM
W2-1115(0)-3618
R2-1-3648
R2-1106p-3618

W21-1(0)-48
NOTE: SIGN SHALL BE
REMOVED OR COVERED
WHEN WORKERS ARE
NOT PRESENT FOR
MORE THAN ONE HOUR.

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SA
STRAND
ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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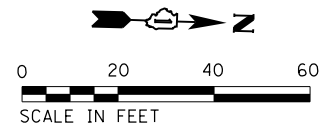
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DATE - 11/29/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: PRE-STAGE**
SCALE: 20 SHEET 1 OF 4 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	38
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM

W2-1115(0)-3618
R2-1-3648
R2-1106p-3618

ROAD CONSTRUCTION AHEAD
W20-103(0)-48

W21-1(0)-48
NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)

STOP
R1-1-36
R1-3P
STA. 101+88.50

TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)

KEEP RIGHT
R4-7a-2430

MAINTAIN EXISTING SIDEWALK RAMP

STOP
R1-1-36
R1-3P
STA. 58+05.00

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
STA. 25+16.21 TO STA. 28+00.00

R3-8

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
STA. 22+00.00 TO STA. 24+74.89

DRIVEWAY ENTRANCE

MAINTAIN EXISTING SIDEWALK RAMP

EXISTING R.O.W.

RAVINIA AVENUE (FAU 1709)

MAINTAIN EXISTING SIDEWALK RAMP

PR TEMPORARY WIDENING

EXISTING R.O.W.

RAVINIA AVENUE (FAU 1709)

STA. 22+42.71
18.78' LT

DRIVEWAY ENTRANCE

DISTRICT DETAIL TC-26 (TYP)
EXISTING R.O.W.

EX EASEMENT

TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)

PAVEMENT MARKING REMOVAL
STA. 22+00.00 TO STA. 22+42.71

EXISTING R.O.W.

PR ROW
PR TEMP EASEMENT

WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM

W2-1115(0)-3618
R2-1-3648
R2-1106p-3618

MATCH LINE 103+75.00

MATCH LINE 22+00.00

MATCH LINE 28+00.00

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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DATE - 11/29/2017

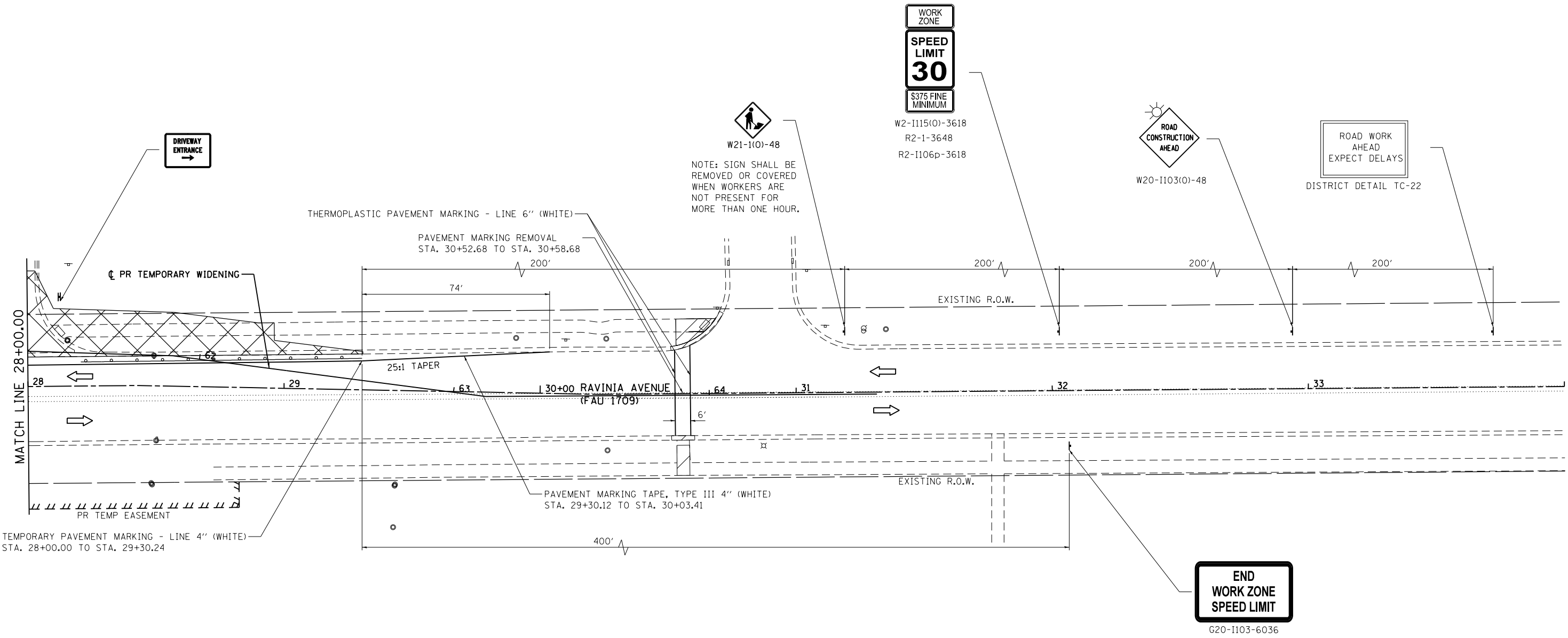
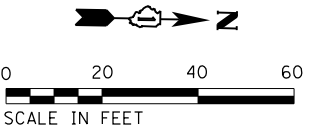
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: PRE-STAGE

SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	39
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

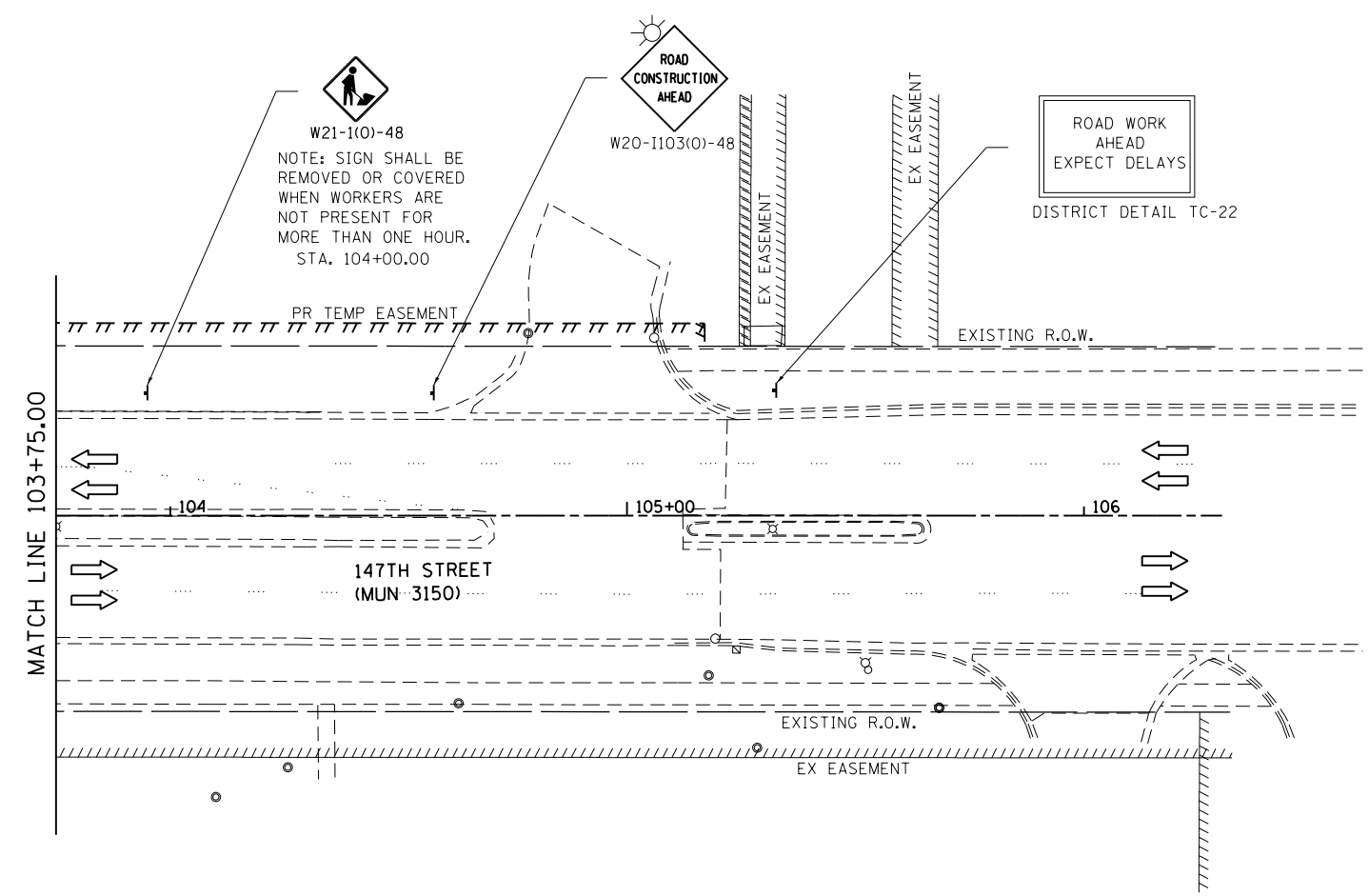
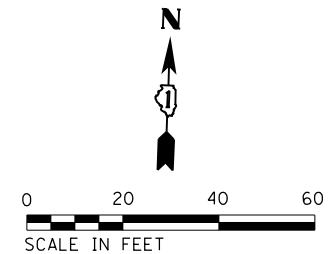
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL: PRE-STAGE**

SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	40
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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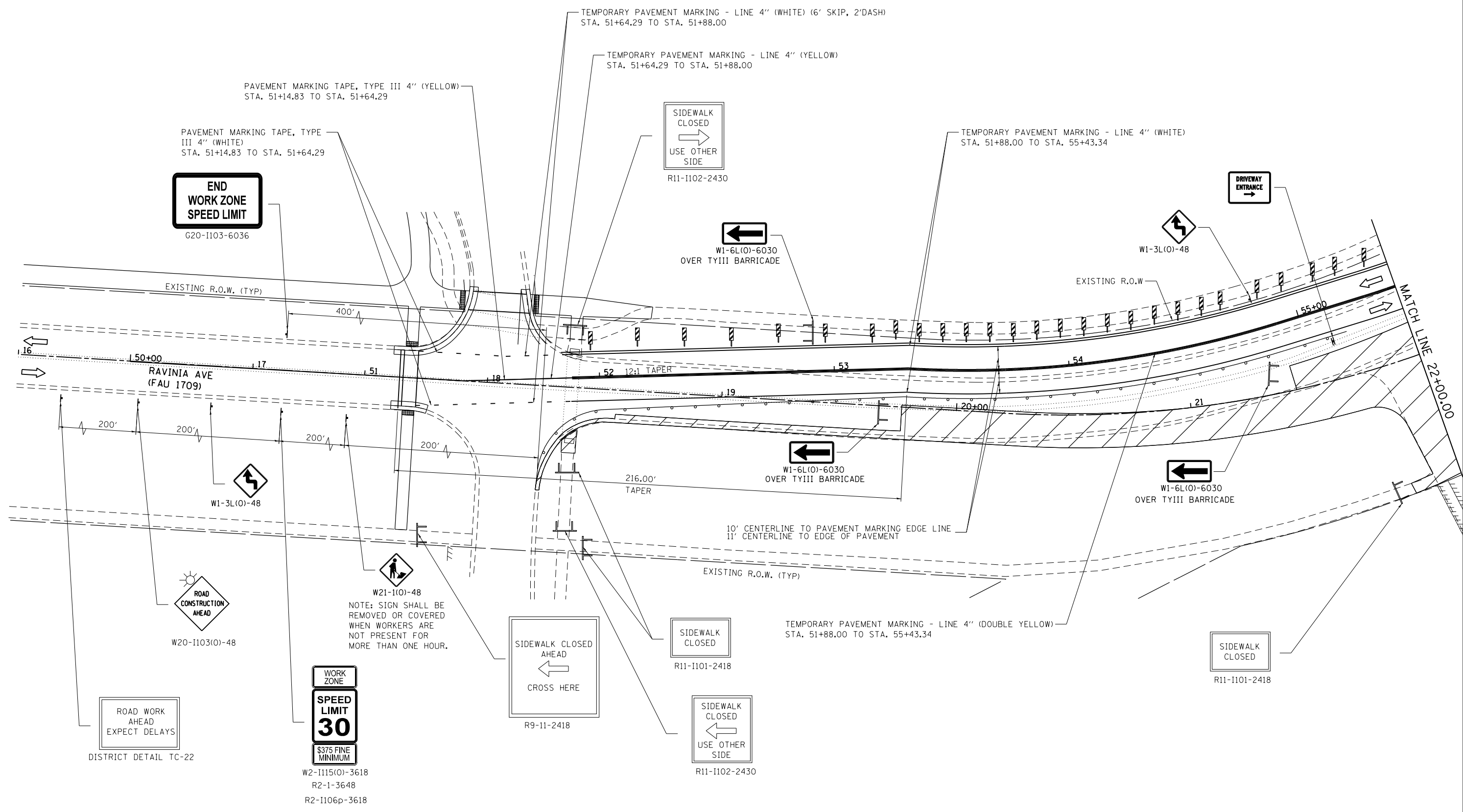
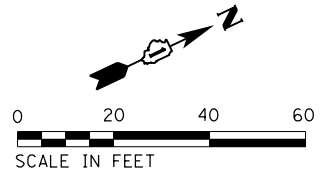
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: PRE-STAGE**

SCALE: 20 SHEET 4 OF 4 SHEETS STA. 103+75 TO STA. 106+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	41
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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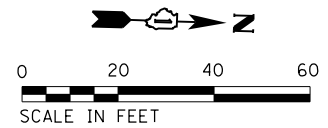
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1**

SCALE: 20 SHEET 1 OF 4 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	42
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM

W2-1115(O)-3618
R2-1-3648
R2-1106p-3618



W20-1103(O)-48



W21-1(O)-48

NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

TEMPORARY PAVEMENT MARKING LINE 6" (WHITE) (TYP)

TEMPORARY PAVEMENT MARKING LINE 24" (WHITE) (TYP)

10' CENTERLINE TO PAVEMENT MARKING EDGE LINE
11' CENTERLINE TO EDGE OF PAVEMENT



R1-1-36
R1-3P
R10-1100
STA. 57+82.26



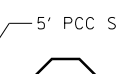
R1-1-36
R1-3P
R10-1100
STA. 101+88.50

5' PCC SIDEWALK 5", SPL

TEMPORARY PAVEMENT CONSTRUCTED IN PRESTAGE

TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW) (6' SKIP, 2' DASH)
STA. 57+82.26 TO STA. 58+80.31

DETECTABLE WARNINGS (TYP)



R1-1-36
R1-3P
R10-1100
STA. 58+80.31

10' CENTERLINE TO PAVEMENT MARKING EDGE LINE
11' CENTERLINE TO EDGE OF PAVEMENT

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

TEMPORARY SIDEWALK
STA. 59+15.53 TO STA. 61+06.88

TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)

30.50' O/S



MATCH LINE 22+00.00

MATCH LINE 28+00.00

RAVINIA AVENUE (FAU 1709)

147TH STREET (MUN 3150)

TEMPORARY PAVEMENT IN PROPOSED SPLITTER ISLAND - TO BE USED DURING STAGE 2
STA. 56+24.00 TO STA. 57+88.00 RT, UP TO 14' RT



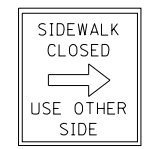
EXISTING R.O.W.

TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)



R11-1101-2418

W1-6R(O)-6030 OVER TYIII BARRICADE



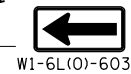
R11-1102-2430

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE, 30' SKIP, 10' DASH)
STA. 102+88.00



R1-1-36
R1-3P
R10-1100
STA. 102+47.00

PR ROW
PR TEMP EASEMENT



W1-6L(O)-6030 OVER TYIII BARRICADE

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
STA. 102+93.00



W21-1(O)-48

NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

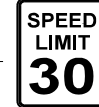


W1-3R(O)-48

TEMPORARY PAVEMENT IN PROPOSED SPLITTER ISLAND - TO BE USED DURING STAGE 2
STA. 59+13.00 TO STA. 60+50.00 RT



WORK ZONE



\$375 FINE MINIMUM

W2-1115(O)-3618
R2-1-3648
R2-1106p-3618

FILE NAME = SA:\JUL15200--1599\1555\0804\Micros\CAD\Sheets\112345-att-staging-2.dgn



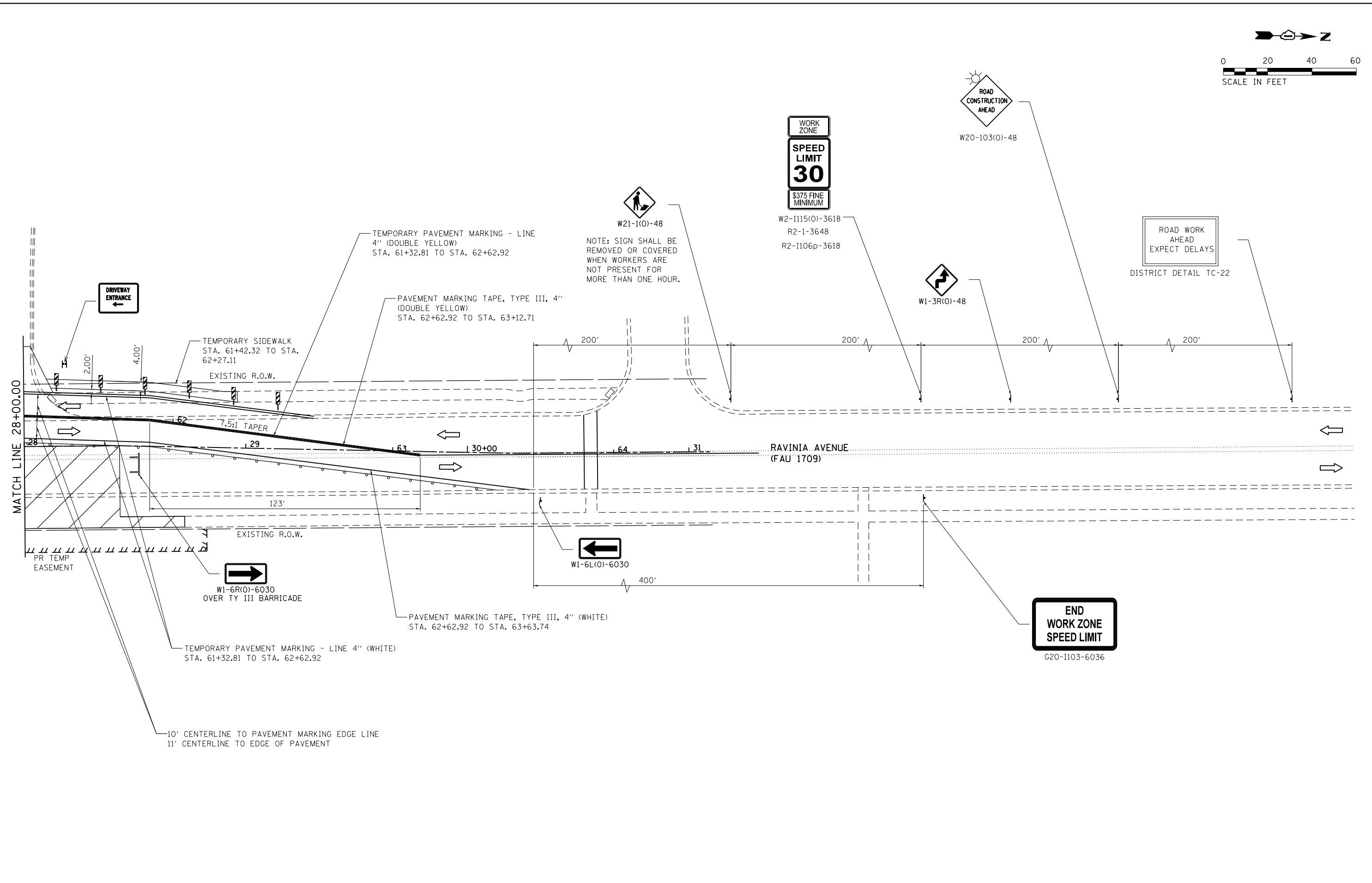
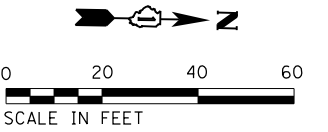
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1

SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	43
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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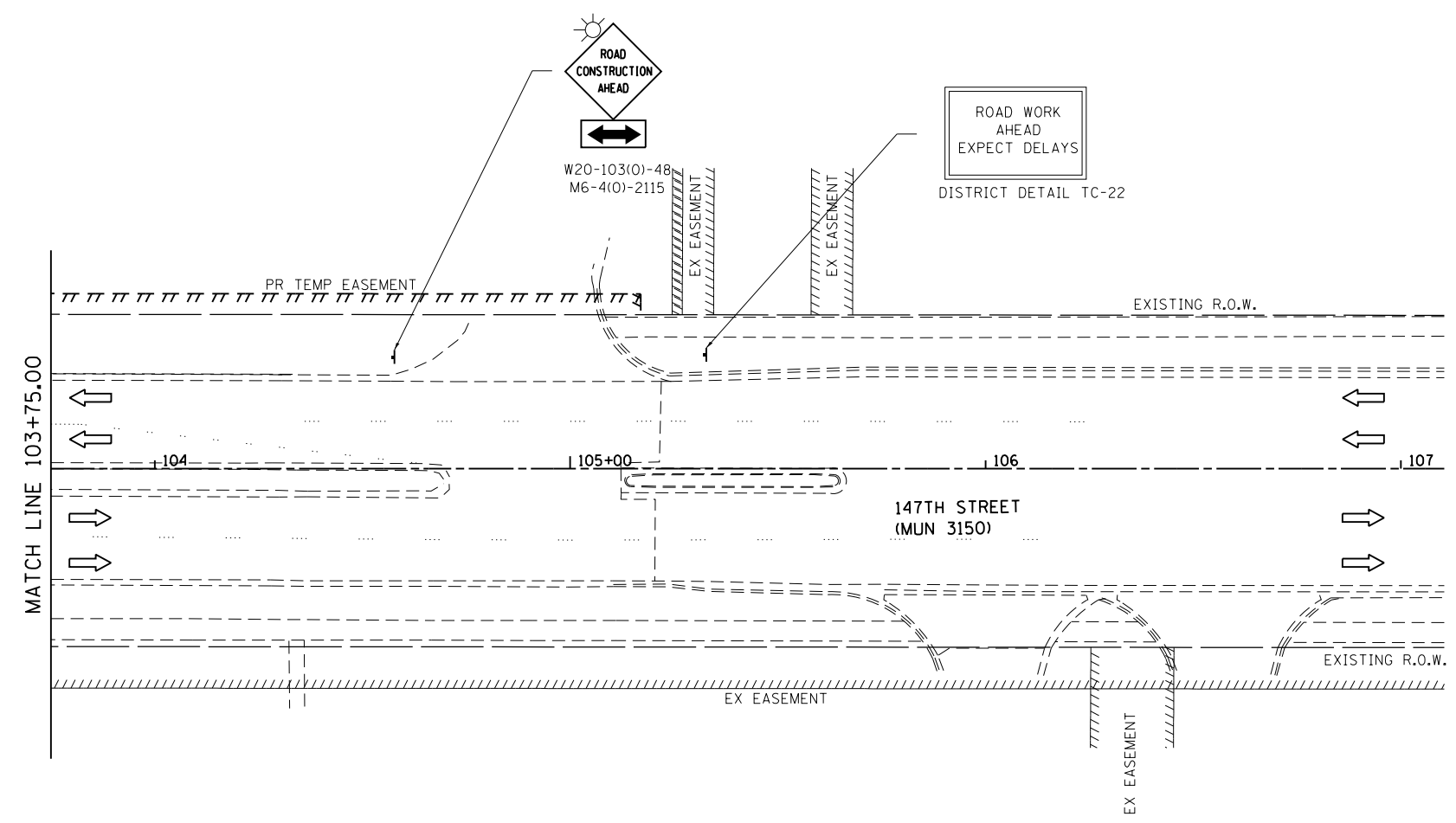
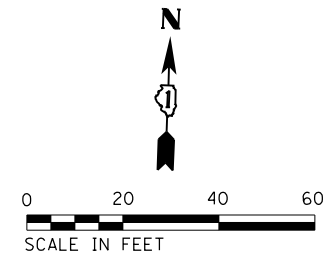
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1**

SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	44
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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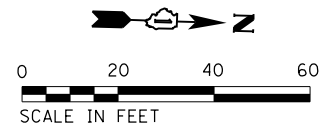
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1**

SCALE: 20 SHEET 4 OF 4 SHEETS STA. 103+75 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	



NOTE: ALL PAVEMENT MARKINGS AND DRIVEWAY ENTRANCE SIGNS TO REMAIN FROM STAGE 1

WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM

W2-1115(O)-3618
R2-1-3648
R2-1106p-3618

ROAD CONSTRUCTION AHEAD
W20-103(O)-48
M6-4(O)-2115

STOP
STOP AT LINE
R1-1-36
R1-3P
R10-1100
R3-1
STA. 57+82.26

STOP
STOP AT LINE
R1-1-36
R1-3P
R10-1100
STA. 101+88.50

ROAD CLOSED
DETOUR
R11-2
M4-10R

STOP
STOP AT LINE
R1-1-36
R1-3P
R3-2
R10-1100
STA. 58+80.31

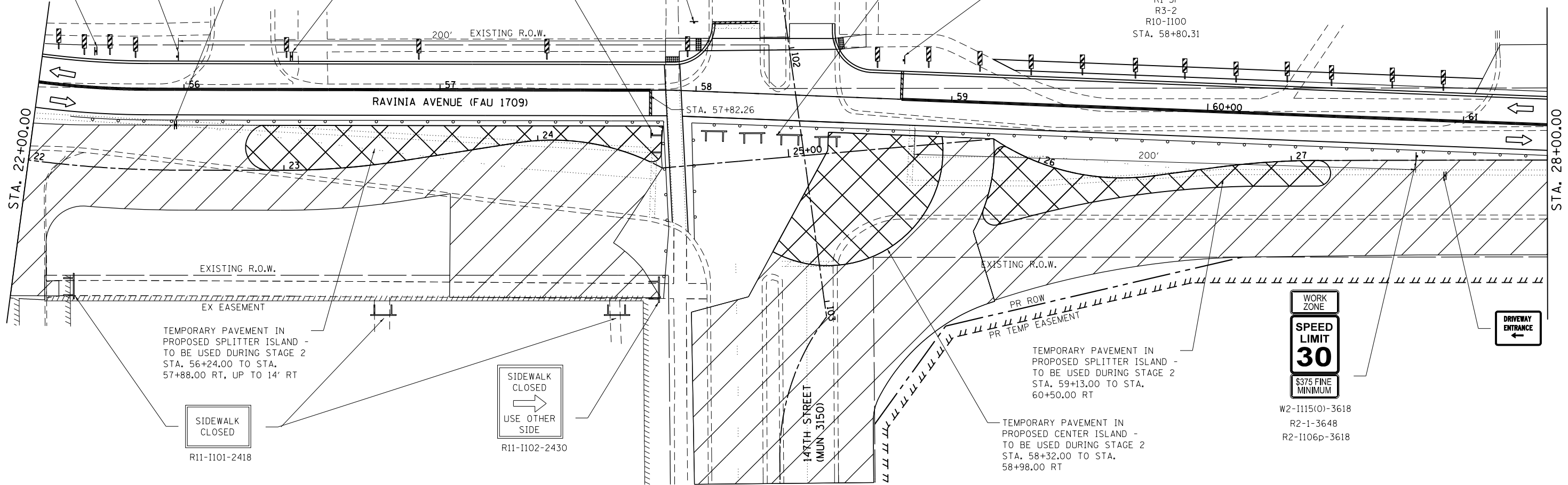
DRIVEWAY ENTRANCE

DRIVEWAY ENTRANCE

DRIVEWAY ENTRANCE

STA. 22+00.00

STA. 28+00.00



TEMPORARY PAVEMENT IN PROPOSED SPLITTER ISLAND - TO BE USED DURING STAGE 2 STA. 56+24.00 TO STA. 57+88.00 RT, UP TO 14' RT

TEMPORARY PAVEMENT IN PROPOSED SPLITTER ISLAND - TO BE USED DURING STAGE 2 STA. 59+13.00 TO STA. 60+50.00 RT

TEMPORARY PAVEMENT IN PROPOSED CENTER ISLAND - TO BE USED DURING STAGE 2 STA. 58+32.00 TO STA. 58+98.00 RT

SIDEWALK CLOSED
R11-1101-2418

SIDEWALK CLOSED
USE OTHER SIDE
R11-1102-2430

WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM
W2-1115(O)-3618
R2-1-3648
R2-1106p-3618

DRIVEWAY ENTRANCE

FILE NAME = S:\A\101\1520--1599\1555\004\Microes\CAD\Sheets\112345-att-staging\p-1.dgn

SA STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P
MODEL NAME = Default
PLOT SCALE = 48.0000' / in.
PLOT DATE = 1/11/2018

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

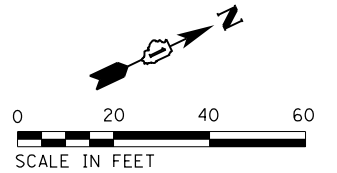
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1A**

SCALE: 20 SHEET 1 OF 1 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	46
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

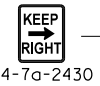


TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE) (2' DASH, 6' SKIP) (FROM STAGE 1) STA. 18+12.00 TO STA. 18+32.00

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE) (2' DASH, 6' SKIP) (FROM STAGE 1) STA. 17+70.00 TO STA. 18+12.00

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW) STA. 17+70.00 TO STA. 18+12.00

END WORK ZONE SPEED LIMIT
G20-I103-6036

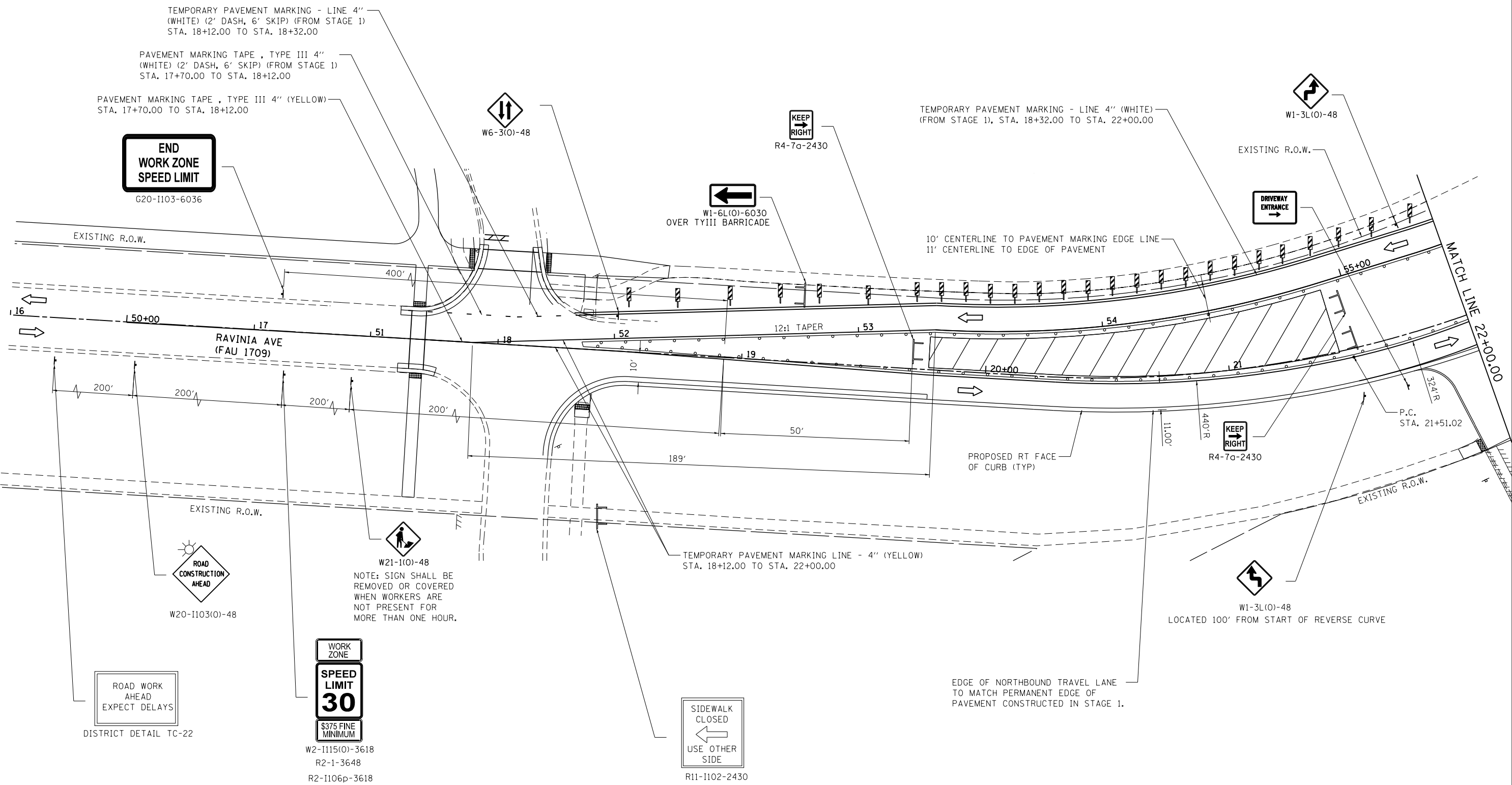


ROAD WORK AHEAD EXPECT DELAYS
DISTRICT DETAIL TC-22

NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

W2-I115(O)-3618
R2-1-3648
R2-I106p-3618

R11-I102-2430



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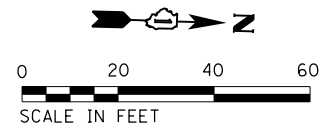
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

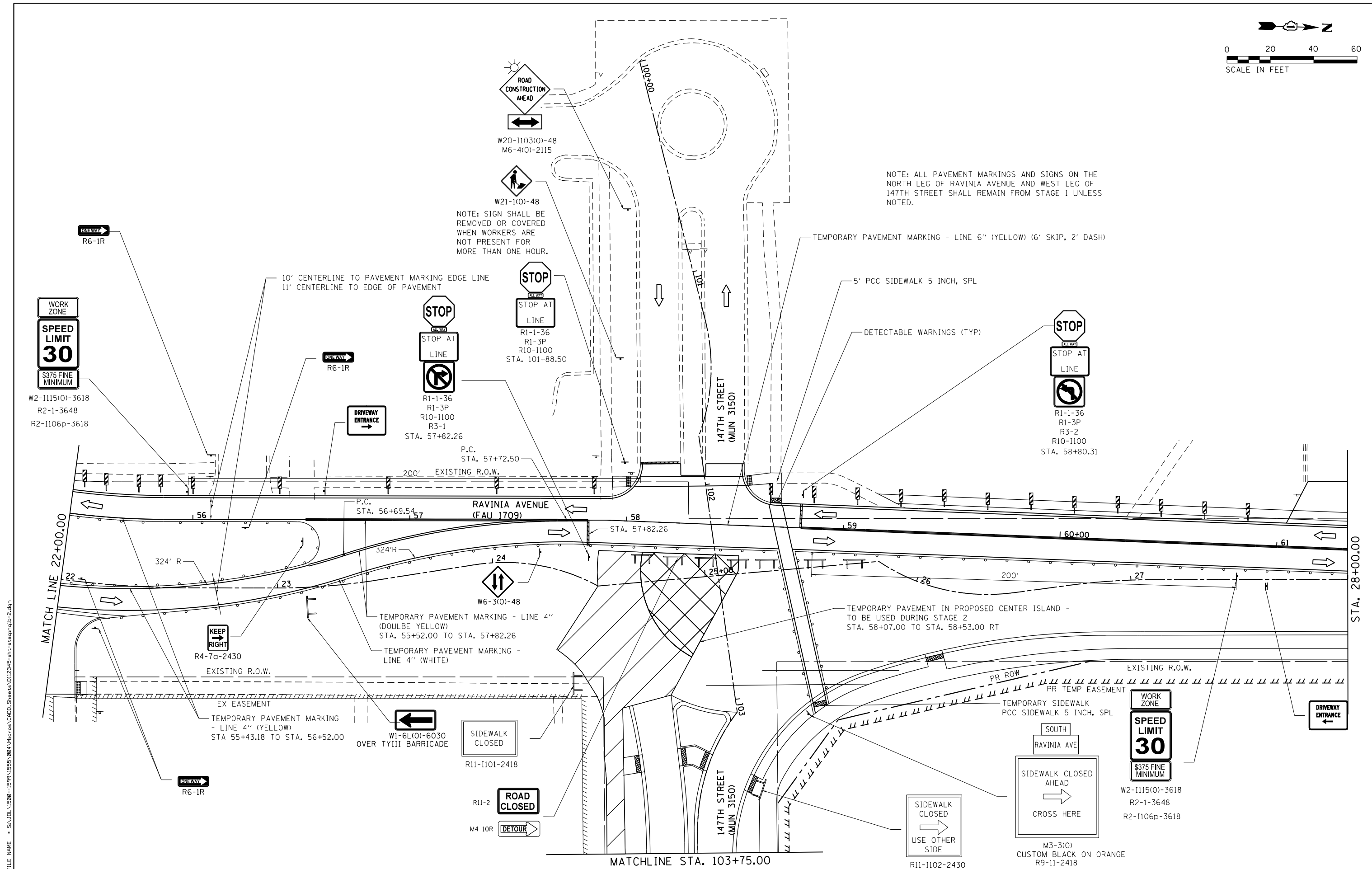
**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1B**

SCALE: 20 SHEET 1 OF 3 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	47
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTE: ALL PAVEMENT MARKINGS AND SIGNS ON THE NORTH LEG OF RAVINIA AVENUE AND WEST LEG OF 147TH STREET SHALL REMAIN FROM STAGE 1 UNLESS NOTED.



FILE NAME = SA:\JUL\1520--1599\1555\0804\Microes\CAD\Sheets\112345-st-staging\1b-2.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

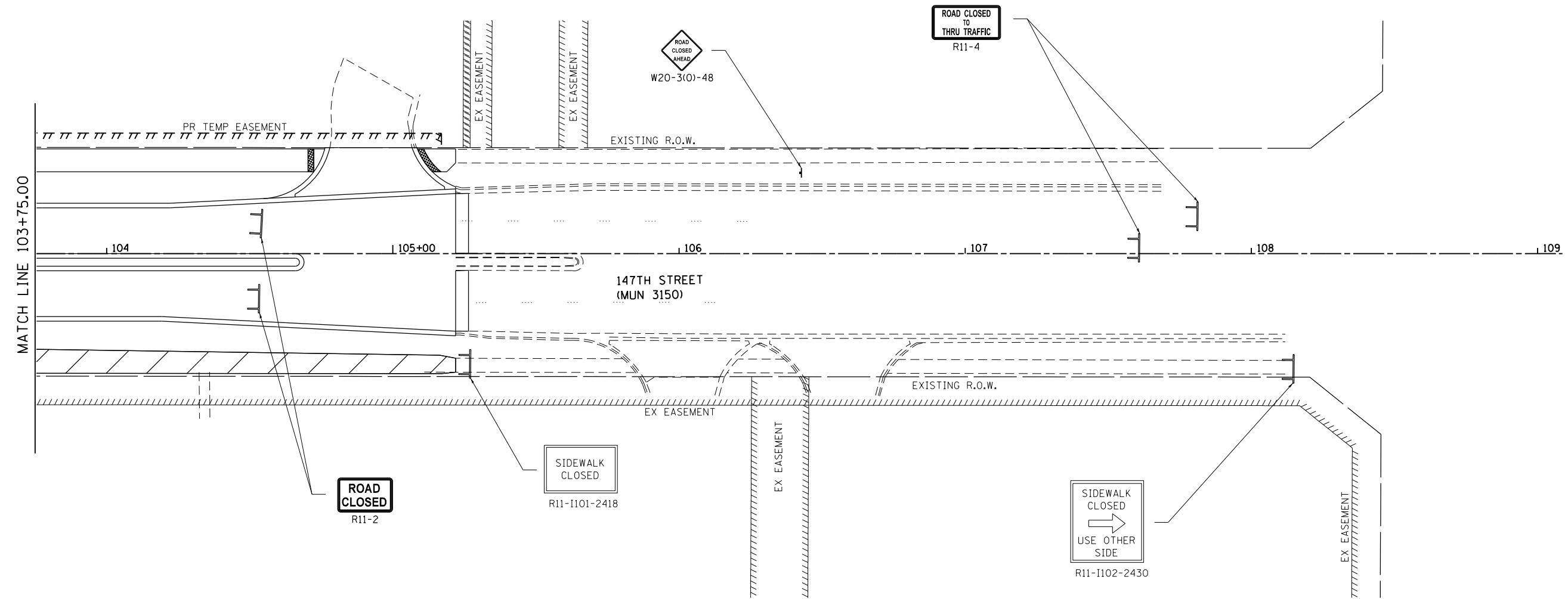
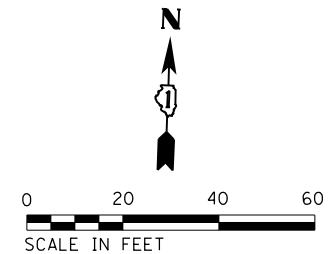
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL: STAGE 1B**

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	48
CONTRACT NO. 61E48				
ILLINOIS FED. AID PROJECT				



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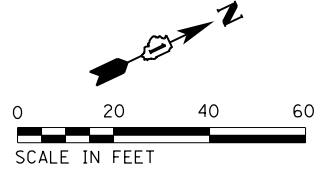
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 1B**

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 103+75 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	49
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



**END
WORK ZONE
SPEED LIMIT**
G20-1103-6036

SIDEWALK
CLOSED
→
USE OTHER
SIDE
R11-1102-2430

TEMPORARY PAVEMENT TAPE, TYPE III, 4" (WHITE) (2' DASH, 6' SKIP)
STA. 17+69.52 TO STA. 18+12.00

TEMPORARY PAVEMENT TAPE, TYPE III 4" (YELLOW)
STA. 17+70.00 TO STA. 18+12.00

TEMPORARY PAVEMENT MARKING -LINE 4" (WHITE) (2' DASH, 6' SKIP)
STA. 18+12.00 TO STA. 18+32.00

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
STA. 18+32.00 TO STA. 22+00.00

EXISTING R.O.W.

MATCH LINE 22+00.00

RAVINIA AVE
(FAU 1709)

25:1 TAPER
46'

10' CENTERLINE TO PAVEMENT MARKING EDGE LINE
11' CENTERLINE TO EDGE OF TRAVELED WAY

TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
STA. 18+32.00 TO STA. 22+00.00

W1-6R
OVER TYIII BARRICADE

EXISTING R.O.W.

TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
STA. 18+12.00 TO STA. 18+32.00

SIDEWALK
CLOSED
R11-1101-2418

SIDEWALK
CLOSED
←
USE OTHER
SIDE
R11-1102-2430

ROAD
CONSTRUCTION
AHEAD
W20-1103(0)-48

W21-1(0)-48
NOTE: SIGN SHALL BE
REMOVED OR COVERED
WHEN WORKERS ARE
NOT PRESENT FOR
MORE THAN ONE HOUR.

ROAD WORK
AHEAD
EXPECT DELAYS
DISTRICT DETAIL TC-22

WORK
ZONE
SPEED
LIMIT
30
\$375 FINE
MINIMUM
W2-1115(0)-3618
R2-1-3648
R2-1106p-3618

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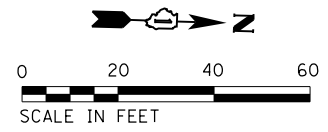
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 2**

SCALE: 20 SHEET 1 OF 4 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	50
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



WORK ZONE
SPEED LIMIT 30
 \$375 FINE MINIMUM
 W2-1115(O)-3618
 R2-1-3648
 R2-1106p-3618

ROAD CONSTRUCTION AHEAD
 W20-1103(O)-48
 M6-4(O)-2115

SIDEWALK CLOSED
 USE OTHER SIDE
 R11-1102-2430

TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

10' CENTERLINE TO PAVEMENT MARKING EDGE LINE
 11' CENTERLINE TO EDGE OF TRAVELED WAY

PORTLAND CEMENT CONCRETE
 SIDEWALK 5 INCH, SPECIAL

STOP
STOP AT LINE
 R1-1-36
 R1-3P
 R10-1100

W1-6L(O)-6030

KEEP RIGHT
 R4-7a-2430

TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW) (6' SKIP, 2' DASH)
 STA. 24+48.62 TO STA. 25+46.17

STOP
STOP AT LINE
 R1-1-36
 R1-3P
 R10-1100

TEMPORARY SIDEWALK CONSTRUCTED IN PRESTAGE. TEMPORARY SIDEWALK SHALL REMAIN OPEN UNTIL STAGE 2A.

W1-6R(O)-6030

W1-3R(O)-48
20 MPH
 W13-1P

SIDEWALK CLOSED
 R11-1101-2418

DRIVEWAY ENTRANCE

MATCH LINE 22+00.00

MATCH LINE 28+00.00

RAVINIA AVENUE (FAU 1709)

TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) (TYP)

EXISTING R.O.W.

EX EASEMENT

DETECTABLE WARNINGS (TYP)

W1-3R(O)-48
20 MPH
 W13-1P

SIDEWALK CLOSED
 R11-1101-2418

STOP
STOP AT LINE
 R1-1-36
 R1-3P
 R10-1100

KEEP RIGHT
 R4-7a-2430

MATCH LINE 103+75.00

147TH STREET (MUN 3150)

STOP
STOP AT LINE
 R1-1-36
 R1-3P
 R10-1100

SIDEWALK CLOSED
 USE OTHER SIDE
 R11-1102-2430

WORK ZONE
SPEED LIMIT 30
 \$375 FINE MINIMUM
 W2-1115(O)-3618
 R2-1-3648
 R2-1106p-3618

W21-1(O)-48
 NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE) (TYP)

TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)

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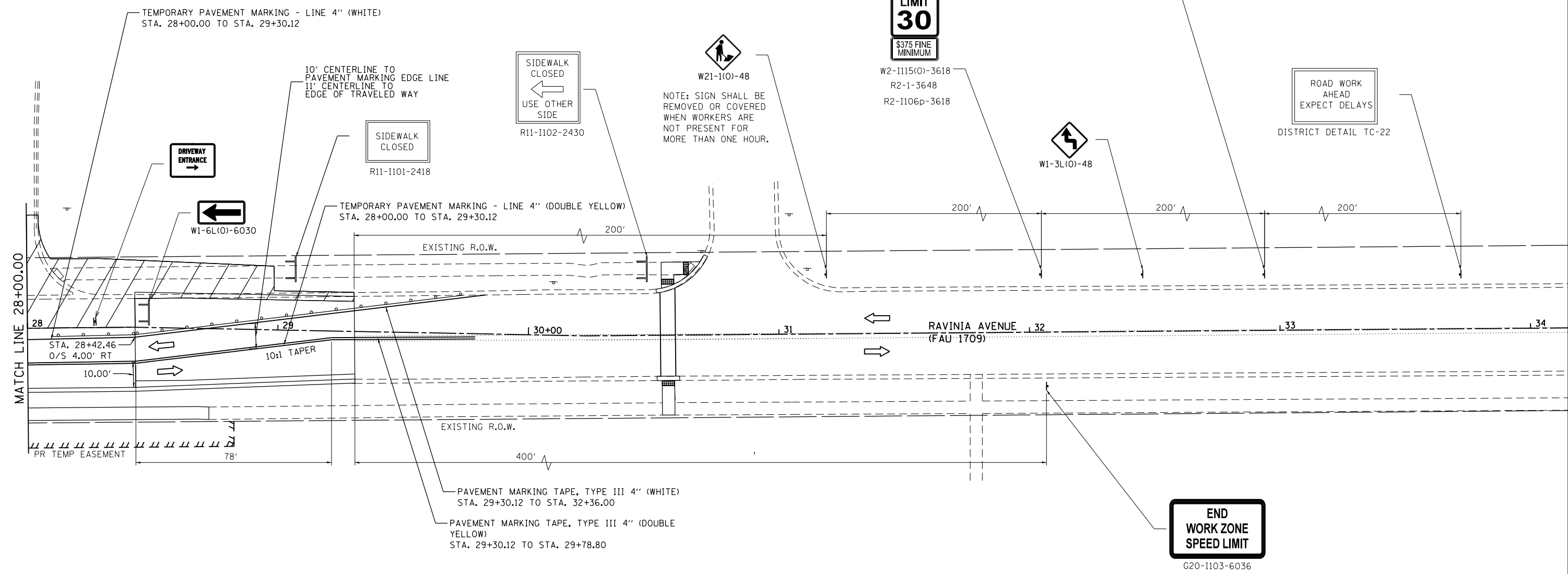
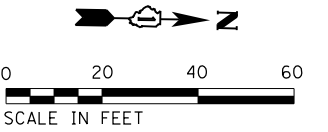
1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = B11P MODEL NAME = Default PLOT SCALE = 48.0000' / in. PLOT DATE = 1/11/2018	DESIGNED - WRP DRAWN - AJJ CHECKED - MAG DATE - 11/29/2017	REVISED - REVISED - REVISED - REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL: STAGE 2

SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 51
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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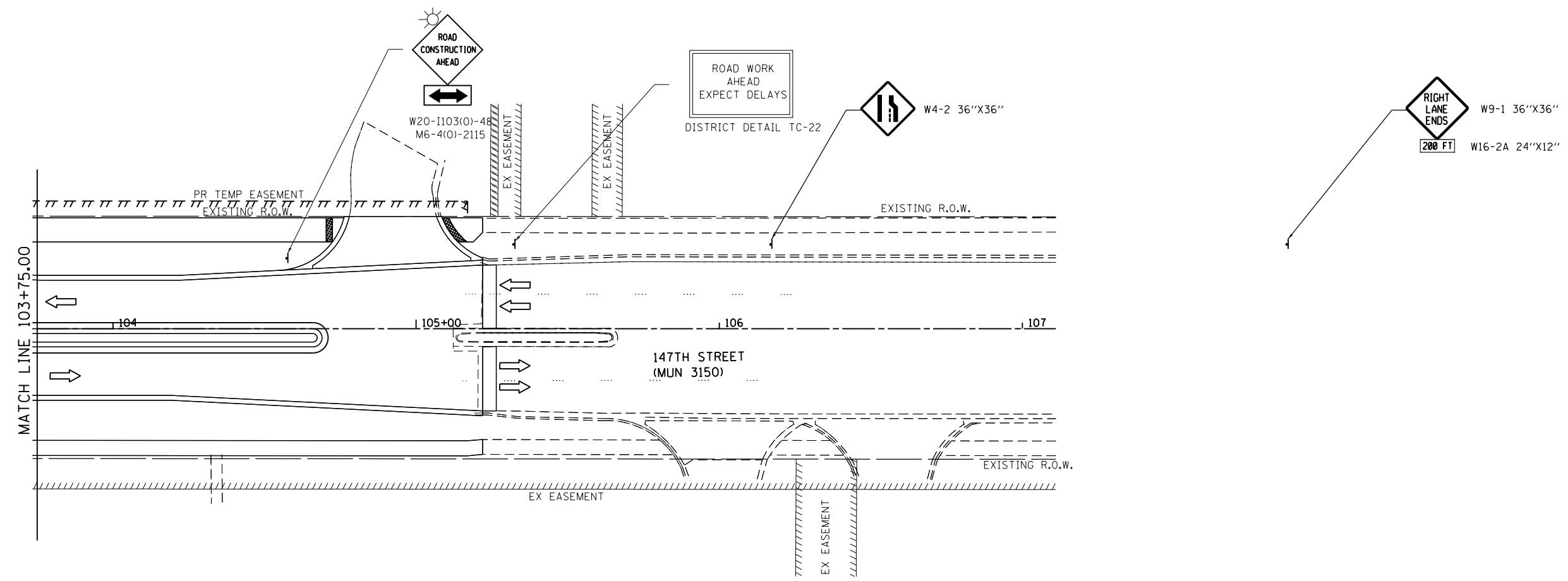
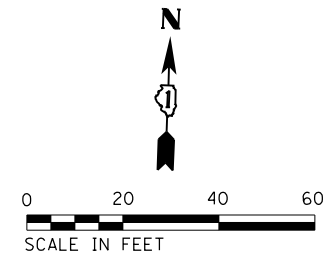
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 2

SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 32+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	52
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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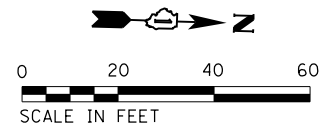
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

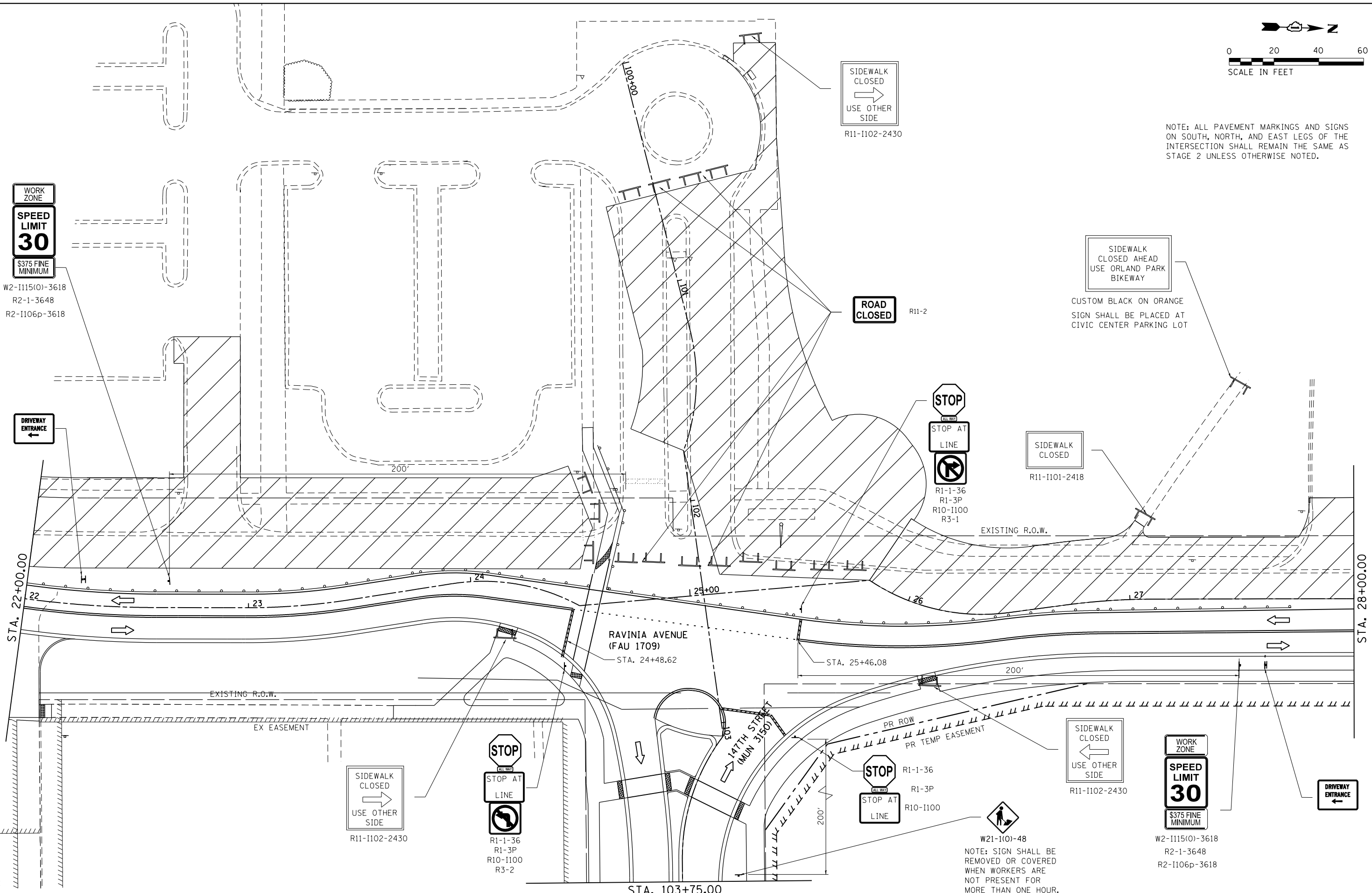
**147TH STREET SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 2**

SCALE: 20 SHEET 4 OF 4 SHEETS STA. 103+75 TO STA. 109+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	53
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTE: ALL PAVEMENT MARKINGS AND SIGNS ON SOUTH, NORTH, AND EAST LEGS OF THE INTERSECTION SHALL REMAIN THE SAME AS STAGE 2 UNLESS OTHERWISE NOTED.



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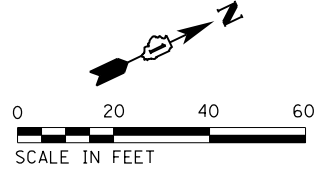
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL: STAGE 2A			
SCALE: 20	SHEET 1	OF 1 SHEETS	STA. 22+00 TO STA. 28+00

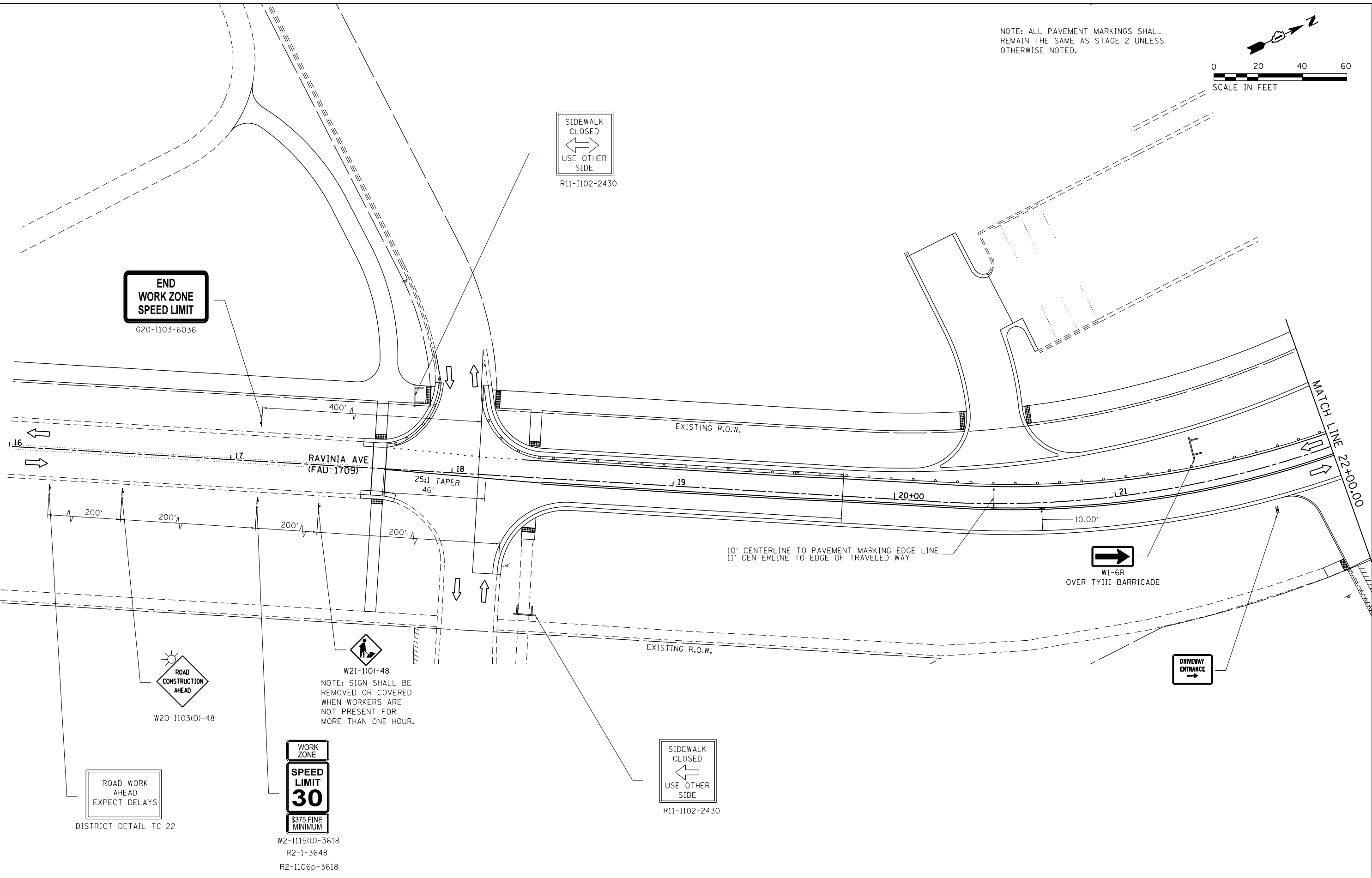
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	54
CONTRACT NO. 61E48				ILLINOIS FED. AID PROJECT

NOTE: ALL PAVEMENT MARKINGS SHALL REMAIN THE SAME AS STAGE 2 UNLESS OTHERWISE NOTED.



SIDEWALK CLOSED
USE OTHER SIDE
R11-1102-2430

END WORK ZONE SPEED LIMIT
G20-1103-6036



ROAD CONSTRUCTION AHEAD
W20-1103(0)-48

W21-1(0)-48
NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

ROAD WORK AHEAD EXPECT DELAYS
DISTRICT DETAIL TC-22

WORK ZONE
SPEED LIMIT 30
\$375 FINE MINIMUM
W2-1115(0)-3618
R2-1-3648
R2-1106p-3618

SIDEWALK CLOSED
USE OTHER SIDE
R11-1102-2430

W1-6R
OVER TYIII BARRICADE

DRIVEWAY ENTRANCE

FILE NAME = \\strand.com\projects\101\1500-1599\1595\000\Micro\CA010.Sheets\112345-sh1-staging2b-1.dgn

SA
STRAND
ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P
MODEL NAME = Default
PLOT SCALE = 48.0000' / in.
PLOT DATE = 1/11/2018

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

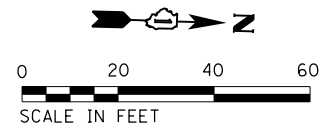
REVISED -
REVISED -
REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

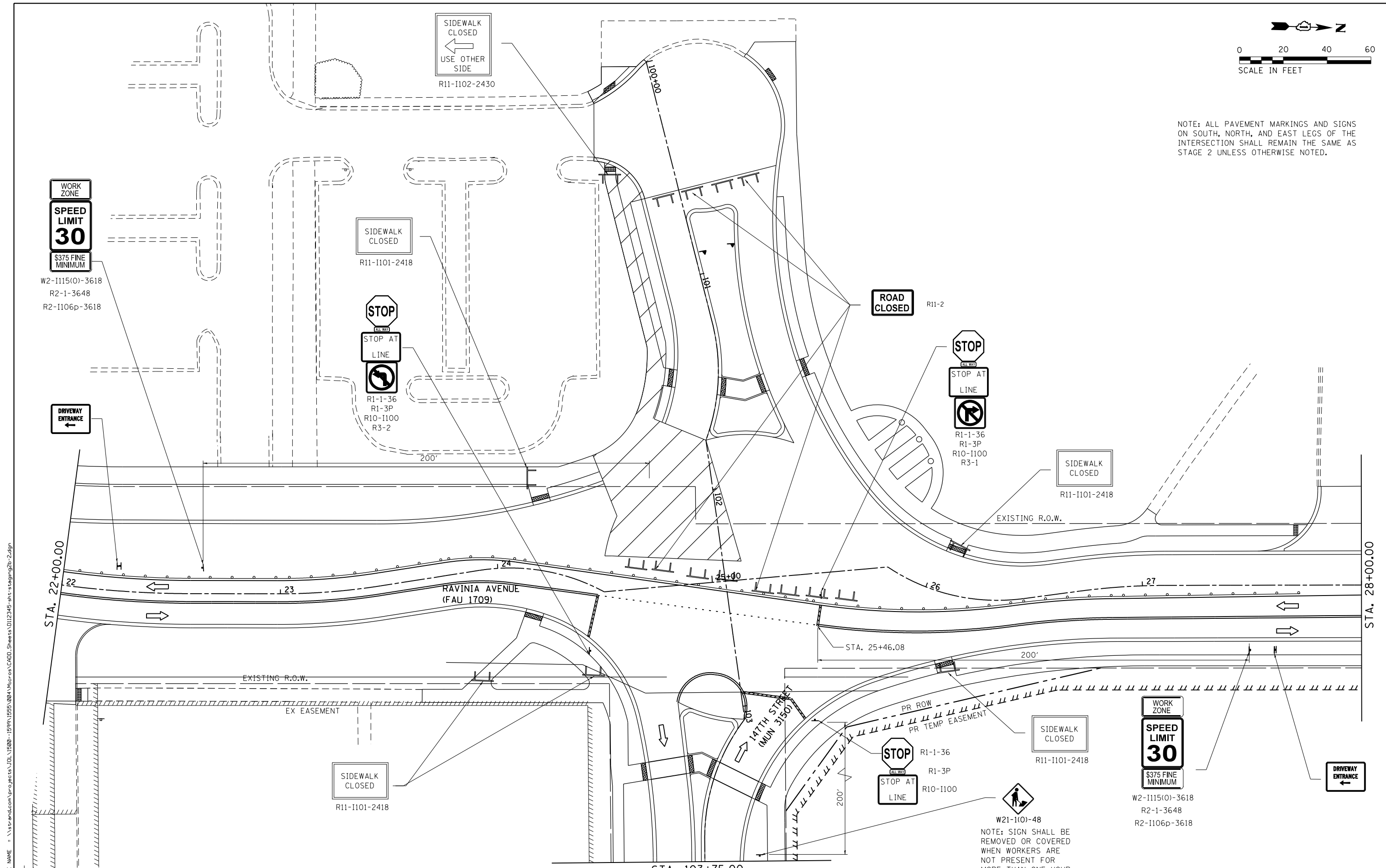
**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 2B**

SCALE: 20 SHEET 1 OF 3 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	55
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTE: ALL PAVEMENT MARKINGS AND SIGNS ON SOUTH, NORTH, AND EAST LEGS OF THE INTERSECTION SHALL REMAIN THE SAME AS STAGE 2 UNLESS OTHERWISE NOTED.



FILE NAME = \\strand.com\projects\101\1500-1599\1595\004\Micro\CA010.Sheets\1112345-sh1-staging2b-2.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

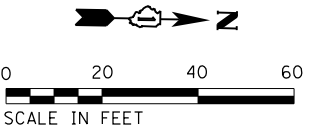
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

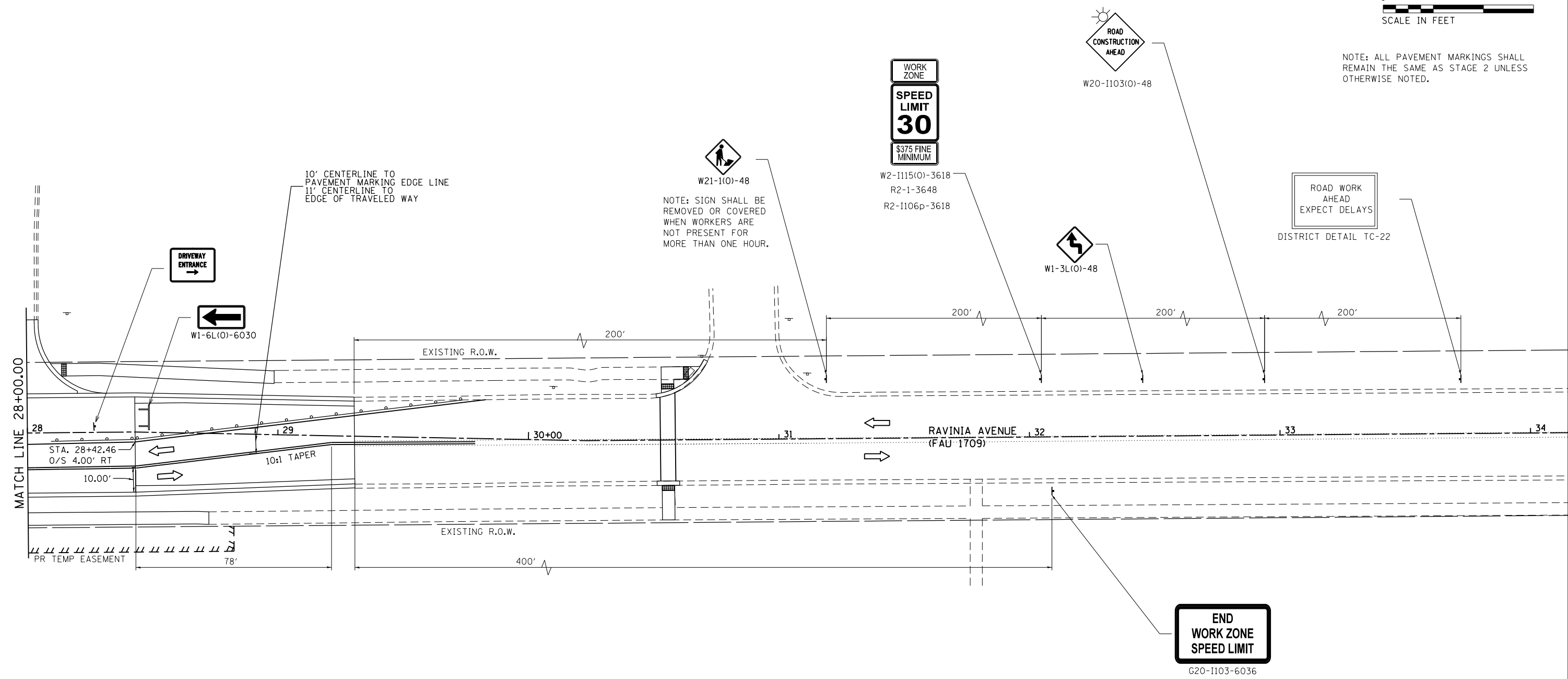
**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL: STAGE 2B**

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	56
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTE: ALL PAVEMENT MARKINGS SHALL REMAIN THE SAME AS STAGE 2 UNLESS OTHERWISE NOTED.



FILE NAME = \\strand.com\projects\101\1500--159N\1555\000\Micro\CA010.Sheets\1112345-sh1-staging2b-3.dgn

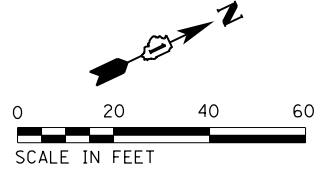


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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

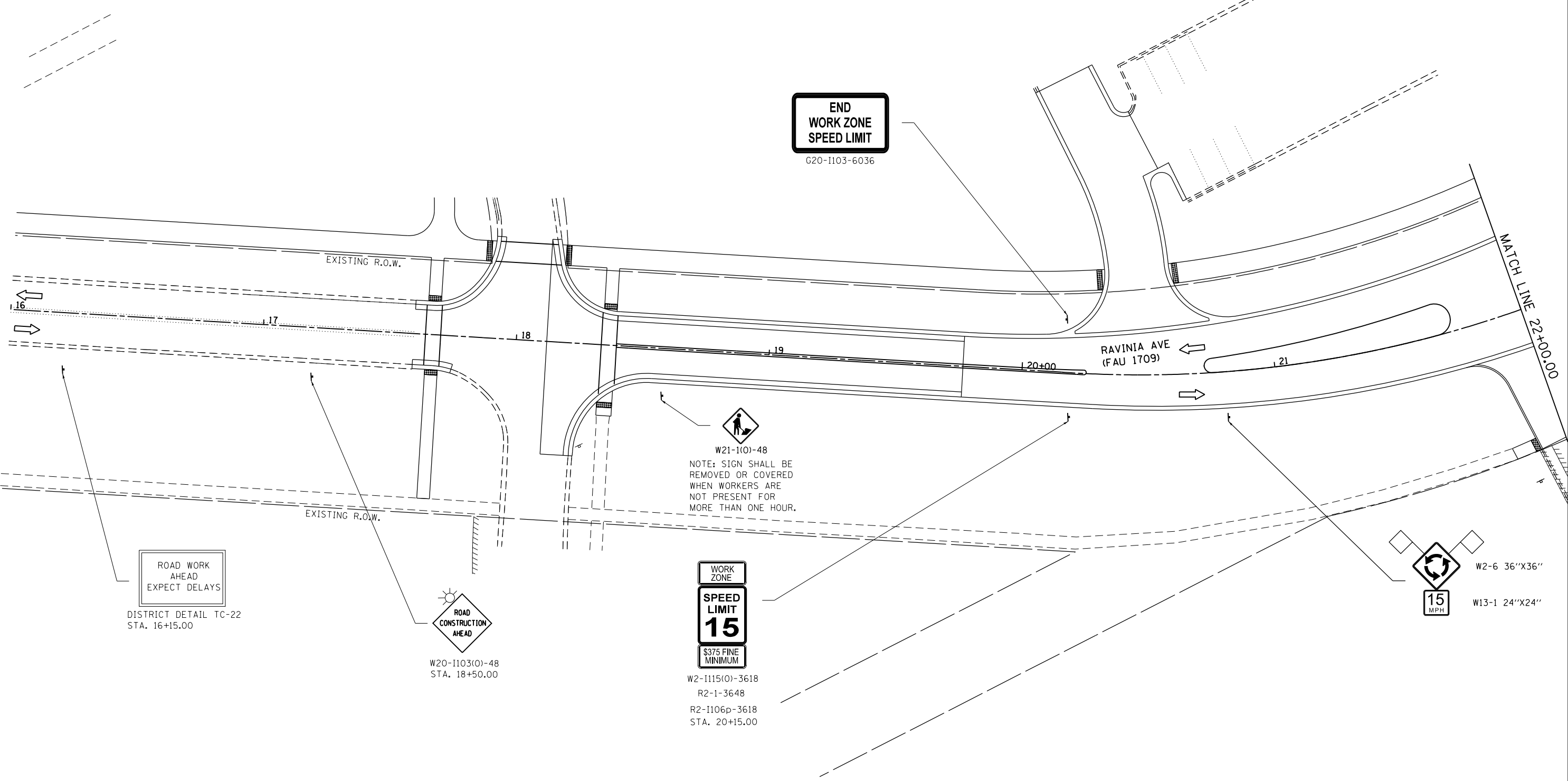
RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL: STAGE 2B			
SCALE: 20	SHEET 3	OF 3 SHEETS	STA. 28+00 TO STA. 32+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	57
ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E48



**END
WORK ZONE
SPEED LIMIT**

G20-I103-6036



**ROAD WORK
AHEAD
EXPECT DELAYS**

DISTRICT DETAIL TC-22
STA. 16+15.00



W20-I103(O)-48
STA. 18+50.00



W21-1(O)-48
NOTE: SIGN SHALL BE
REMOVED OR COVERED
WHEN WORKERS ARE
NOT PRESENT FOR
MORE THAN ONE HOUR.

**WORK
ZONE
SPEED
LIMIT
15**
S375 FINE
MINIMUM

W2-I115(O)-3618
R2-1-3648
R2-I106p-3618
STA. 20+15.00



W2-6 36"X36"

W13-1 24"X24"

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-att-staging3-1.dgn



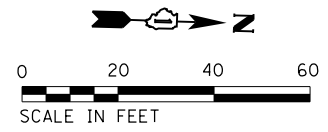
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 3**

SCALE: 20 SHEET 1 OF 4 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	58
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



NOTE:
 ALL PERMANENT SIGNING OTHER THAN THOSE IN THE CENTER ISLAND AND MEDIANS SHALL BE INSTALLED PRIOR TO THE BEGINNING OF STAGE 3.
 • INDICATES TEMPORARY SIGN TO BE REMOVED WHEN PERMANENT SIGN ASSEMBLIES ARE INSTALLED WITHIN RAVINIA AVE. MEDIANS.

W2-6 36"x36"
 W13-1 24"x24"
 W21-1(0)-48
 NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

R1-2 36"x31"
 R6-5P

R1-2 36"x31"

SIDEWALK CLOSED
 R11-1101-2418

R6-1R 36"x12"
 R6-4 30"x24"

R1-2 36"x31"
 R6-5P

SIDEWALK CLOSED
 R11-1101-2418

RAVINIA AVENUE (FAU 1709)

RAVINIA AVENUE (FAU 1709)

R4-7a-2430

R4-7a-2430

SIDEWALK CLOSED
 R11-1101-2418

W21-1(0)-48
 NOTE: SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

R1-2 36"x31"
 R1-2 36"x31"

R6-5P

SIDEWALK CLOSED
 R11-1101-2418

MATCH LINE 103+75.00

MATCH LINE 22+00.00

MATCH LINE 28+00.00

FILE NAME = SA\JUL1520--1599\1555\004\Micros\CAD\Sheets\112345-att-staging3-2.dgn



1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11P
 MODEL NAME = Default
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 1/11/2018

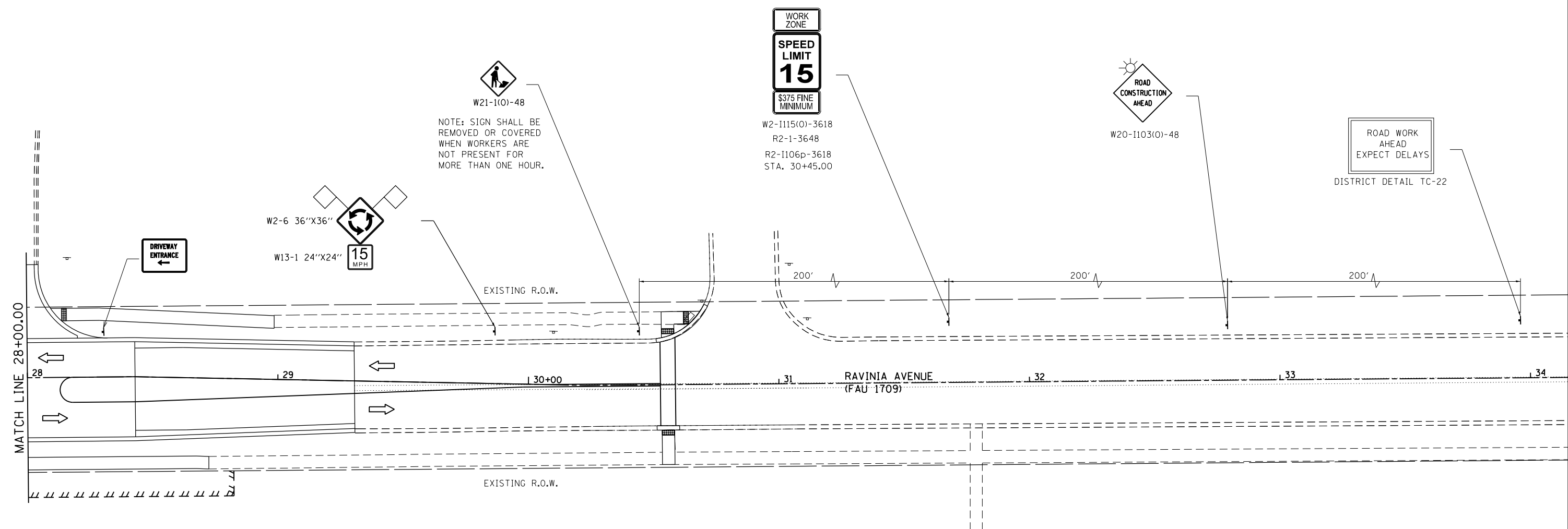
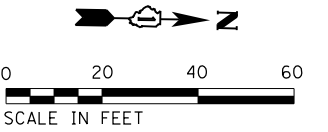
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 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL: STAGE 3
 SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	59
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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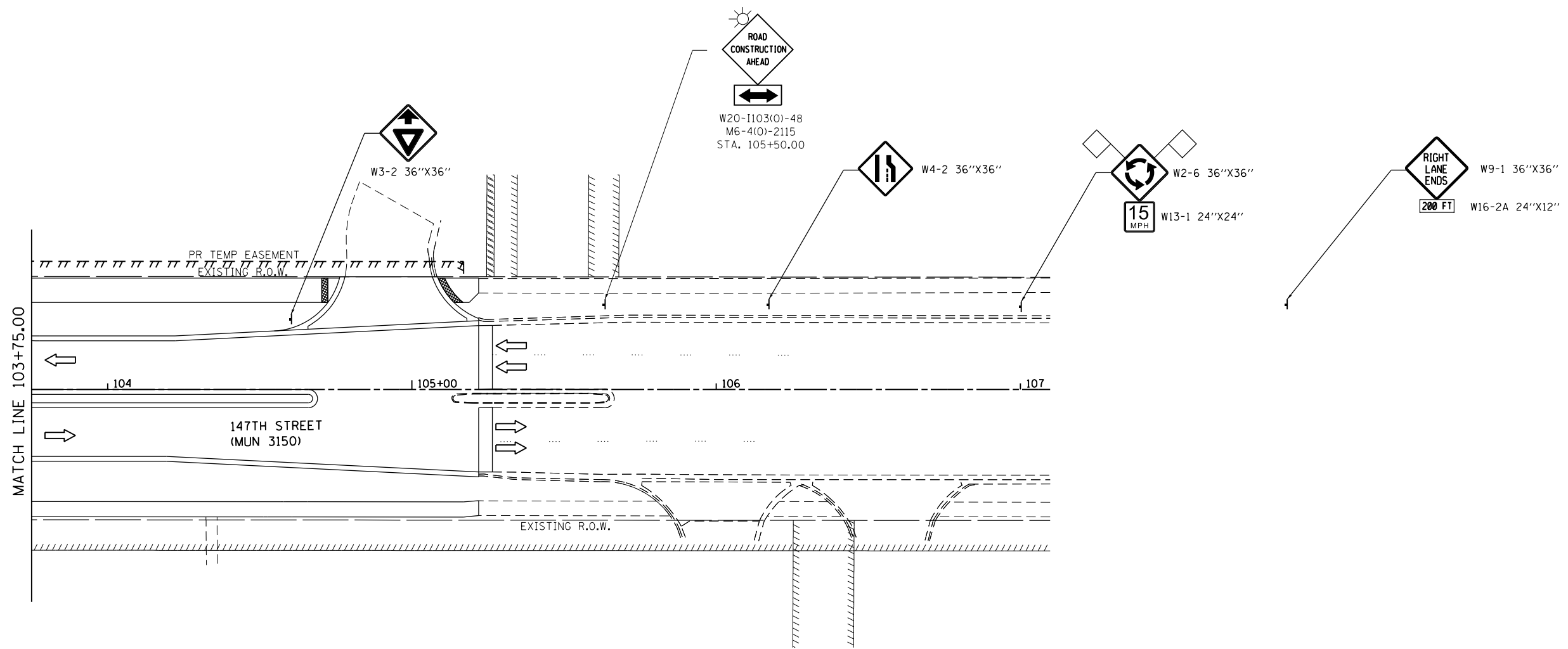
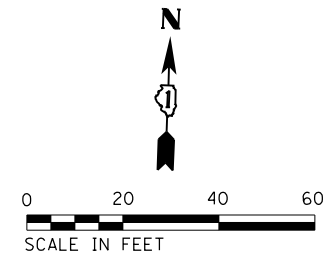
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 3**

SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	60
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CADD_Sheets\0112345-147th-staging3-4.dgn



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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL: STAGE 3**

SCALE: 20 SHEET 4 OF 4 SHEETS STA. 103+75 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	61
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

PROPOSED STORM SEWER SCHEDULE

PIPE NO.	FROM	TO	LENGTH (FT)	DIA (IN)	PIPE TYPE	SLOPE(%)	D. I.	U. I.
100	100	101	39	12	CLASS A, TYPE 2	3.00%	708.50	709.67
101	101	102	8	12	CLASS A, TYPE 1	2.00%	709.67	709.83
102	101	103	25	12	CLASS A, TYPE 1	2.30%	709.67	710.25
103	103	104	8	12	CLASS A, TYPE 1	2.00%	710.25	710.41
104	105	106	19	12	CLASS A, TYPE 1	2.00%	708.49	708.87
105	105	107	17	12	CLASS A, TYPE 1	2.00%	708.52	708.86
106	108	110	40	12	CLASS A, TYPE 1	2.00%	707.45	708.25
107	108	109	6	12	CLASS A, TYPE 1	2.00%	707.43	707.59
108	111	112	6	12	CLASS A, TYPE 2	2.00%	707.37	707.49
109	111	113	41	12	CLASS A, TYPE 1	2.00%	707.06	707.74
110	114	115	10	12	CLASS A, TYPE 1	1.00%	706.95	707.05
111	114	116	6	12	CLASS A, TYPE 2	1.00%	705.94	706.00
112	116	117	9	12	CLASS A, TYPE 2	1.00%	706.00	706.09
113	117	118	16	12	CLASS A, TYPE 1	1.00%	706.09	706.25
114	119	120	25	12	CLASS A, TYPE 1	1.00%	706.52	706.76
115	122	123	20	12	CLASS A, TYPE 2	1.00%	703.10	703.30
116	123	124	22	12	WATER MAIN QUALITY, TYPE 2	1.00%	703.30	703.52
117	124	125	15	12	WATER MAIN QUALITY, TYPE 2	1.00%	703.52	703.67
118	125	126	10	12	CLASS A, TYPE 1	1.00%	703.67	703.77
119	124	127	16	12	WATER MAIN QUALITY, TYPE 2	1.00%	703.54	703.70
120	127	128	22	12	CLASS A, TYPE 2	1.00%	703.70	703.92
121	128	129	19	12	WATER MAIN QUALITY, TYPE 1	1.00%	704.42	704.61
122	129	130	14	12	WATER MAIN QUALITY, TYPE 1	1.00%	704.61	704.75
123	131	132	15	12	CLASS A, TYPE 2	1.00%	701.54	701.69
124	132	133	9	12	CLASS A, TYPE 2	1.00%	701.69	701.78
125	133	134	15	12	WATER MAIN QUALITY, TYPE 2	1.00%	701.21	701.36
126	136	137	20	12	CLASS A, TYPE 2	1.00%	697.75	697.95
127	136	138	40	12	WATER MAIN QUALITY, TYPE 2	2.70%	697.75	698.80
128	138	139	20	12	CLASS A, TYPE 1	1.00%	698.80	699.00
129	121	140	50	12	CLASS A, TYPE 2	1.00%	703.62	704.12
130	140	141	12	12	CLASS A, TYPE 2	1.00%	704.12	704.24
131	141	142	17	12	WATER MAIN QUALITY, TYPE 2	1.00%	705.75	705.92
132	140	143	23	12	CLASS A, TYPE 2	1.00%	704.12	704.35
133	143	144	21	12	CLASS A, TYPE 2	1.00%	705.85	706.06
134	144	145	8	12	CLASS A, TYPE 1	1.00%	706.06	706.14
135	119	146	14	18	CLASS A, TYPE 2	0.60%	703.49	703.57
136	146	147	11	12	CLASS A, TYPE 1	2.00%	705.67	705.89
137	146	148	39	18	CLASS A, TYPE 2	0.60%	703.57	703.80
138	148	149	29	18	WATER MAIN QUALITY, TYPE 2	0.60%	705.85	706.06
139	149	150	24	12	CLASS A, TYPE 2	1.00%	704.47	704.70
140	150	151	18	12	CLASS A, TYPE 2	1.00%	704.70	704.88
141	151	152	10	12	CLASS A, TYPE 1	1.00%	704.88	704.98
142	152	153	21	12	CLASS A, TYPE 1	1.00%	704.98	705.19
143	153	154	23	12	CLASS A, TYPE 1	1.00%	705.19	705.42
144	149	155	39	15	CLASS A, TYPE 2	1.00%	704.22	704.62
145	155	156	101	15	CLASS A, TYPE 2	0.90%	704.62	705.48
146	156	157	10	12	CLASS A, TYPE 2	1.00%	705.48	705.58
147	156	158	40	12	CLASS A, TYPE 1	1.00%	707.37	707.77

LEGEND

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
DITCH & SWALE BOTTOM	----	----
SUMMIT	↔	↔
DIRECTION OF SWALE FLOW	→	→
PIPE CULVERT	----	----
PIPE UNDERDRAINS, TYPE 1, 6"	—▲	—▲
STORM SEWER	—▶	—▶
CATCH BASIN	○	●
INLET	□	—
MANHOLE	○	⊙
PIPE CULVERT END SECTION	◀	◀
STRUCTURES		XXX
PIPES		XXX
* MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID		ADJ MH
* VALVE VAULTS TO BE ADJUSTED		A VV
# VALVE BOXES TO BE ADJUSTED		ADJ VB
+ MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID		REC MH
+ VALVE VAULTS TO BE RECONSTRUCTED		REC VV
POWER POLE TO BE RELOCATED BY OTHERS		REL PP
DRAINAGE STRUCTURE TO BE REMOVED (MANHOLE, CATCH BASIN, INLET)		X
△ PLUG EXISTING STORM SEWER		□

- * PAID FOR AS DRAINAGE AND UTILITY STRUCTURE ADJUSTMENT (SPECIAL)
- + PAID FOR AS DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED (SPECIAL)
- # INCLUDED IN THE COST FOR DRAINAGE AND UTILITY STRUCTURE ADJUSTMENT (SPECIAL)
- △ INCLUDED IN THE COST OF STORM SEWER REMOVAL.

FILE NAME = SA\JOL\1500--1599\1555\004\Micros\CAD\Drawings\121345-dt-dr-in-t-schedule.dgn



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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE SCHEDULES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	62
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

PROPOSED DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	ROADWAY	ALIGNMENT	STATION	OFFSET	RIM ELEV	INV (N)	INV (E)	INV (S)	INV (W)
100	CATCH BASINS - TYPE A, 4' DIAMETER, TYPE 8 GRATE	RAVINIA AVE	RAVINIA AVE	20+13.02	45.69 RT	712.00	706.49		706.49	708.50
101	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	200+16.32	0.5 RT	713.76		709.67	709.67	709.67
102	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	200+08.32	0.5 RT	713.86	709.83			
103	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	505+90.39	0.5 RT	713.76		710.26	710.26	
104	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	505+98.40	0.5 RT	713.86	710.42			
105	MANHOLES - TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	RAVINIA AVE	RAVINIA AVE	21+10.00	3.36 LT	712.70	704.46	708.52	704.46	708.49
106	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	504+76.53	0.5 RT	712.37		707.86		
107	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	201+35.85	0.5 RT	712.86				708.86
108	MANHOLES - TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	RAVINIA AVE	RAVINIA AVE	22+29.39	25.88 LT	711.36	702.49	707.45	702.49	707.43
109	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	503+64.23	0.5 RT	711.23		707.59		
110	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	202+62.05	0.5 RT	711.25				708.25
111	MANHOLES - TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	RAVINIA AVE	RAVINIA AVE	22+90.00	26.55 LT	710.87	702.14	707.06	702.14	707.37
112	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	503+05.34	0.5 RT	710.74		707.49		
113	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	203+20.38	0.5 RT	710.74				707.74
114	MANHOLES - TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	RAVINIA AVE	RAVINIA AVE	23+95.59	14.81 LT	710.24	701.52	705.94	701.52	706.95
115	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABD	502+01.86	0.5 RT	710.05		707.05		
116	INLETS - TYPE B, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABE	600+99.15	0.5 RT	710.28		706.00		706.00
117	INLETS - TYPE B, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABE	602+39.51	0.5 RT	710.08		706.09		706.09
118	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	204+24.04	0.5 RT	709.79				706.25
119	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABE	601+63.12	0.5 RT	709.81	701.20	703.49	701.20	706.52
120	INLETS - TYPE A, TYPE 11 FRAME AND GRATE	RAVINIA AVE	RABD	501+45.01	0.5 RT	709.76		706.76		
121	MANHOLES - TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	RAVINIA AVE	RAVINIA AVE	25+31.38	16.06 LT	711.66	700.18		700.18	703.62
122	MANHOLES - TYPE A, 5' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABC	402+38.68	0.5 RT	707.87	699.14	703.10	699.14	
123	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABG	801+13.51	0.5 LT	708.18		703.30		703.30
124	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABG	801+74.19	0.5 LT	707.79		703.52	703.54	703.52
125	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABB	302+81.07	0.5 RT	707.49			703.67	703.67
126	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABB	302+71.06	0.5 RT	707.75	703.77			
127	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABG	801+47.46	0.5 LT	708.44	703.70		703.70	
128	MANHOLES - TYPE A, 4' DIAMETER, TYPE 24 FRAME AND GRATE	RAVINIA AVE	RABI	1002+76.00	1.0 RT	708.44	703.92	704.42		
129	MANHOLES - TYPE A, 4' DIAMETER, TYPE 24 FRAME AND GRATE	RAVINIA AVE	RABI	1000+12.93	1.0 RT	708.11			704.61	704.61
130	INLETS - TYPE A, TYPE 11 FRAME AND GRATE	RAVINIA AVE	RABI	1000+12.93	15.5 RT	708.44	704.75			
131	MANHOLES - TYPE A, 5' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABC	401+40.00	0.5 RT	704.93	697.75	701.53	697.75	
132	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABG	800+07.34	0.5 LT	705.21		701.69		701.69
133	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABG	802+81.69	0.5 LT	705.21		701.78		701.78
134	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABB	303+84.90	0.5 RT	704.93				701.93
135	MANHOLES - TYPE A, 6' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABC	401+04.27	1.17 RT	704.17			697.24	697.24
136	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11 FRAME AND GRATE	RAVINIA AVE	RAVINIA AVE	28+48.90	14.50 RT	702.20	697.75	697.75		696.10
137	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RAVINIA AVE	28+69.00	14.50 RT	702.32			697.95	
138	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11 FRAME AND GRATE	RAVINIA AVE	RABB	305+31.43	0.5 RT	702.30	698.80	699.42		698.80
139	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABB	305+51.18	0.5 RT	702.37			699.00	
140	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABH	901+21.00	0.5 RT	709.58		704.12	704.12	704.12
141	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABH	901+00.00	0.5 RT	709.95	705.75		704.24	
142	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABC	403+29.34	0.5 RT	709.77			705.92	
143	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABH	901+53.00	0.5 RT	710.12	704.35		705.85	
144	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABD	500+97.55	0.5 RT	709.81	706.06	706.06		
145	INLETS - TYPE A, TYPE 11 FRAME AND GRATE	VILLAGE HALL ENTRANCE	RABD	501+05.81	0.5 RT	709.63				706.14
146	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABE	601+77.00	0.5 RT	709.67		703.57	705.67	703.57
147	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABE	601+94.10	0.5 RT	709.67	705.89			
148	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	RAVINIA AVE	RABA	204+85.08	0.5 RT	709.18		703.80		703.80
149	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11 FRAME AND GRATE	147TH ST	RABA	205+14.42	0.5 RT	708.80	704.47	703.97	704.22	703.97
150	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147TH ST	RABF	701+93.10	0.5 LT	708.99	704.70		704.70	
151	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147th ST	RABF	701+66.00	0.5 LT	708.73		704.88	704.88	
152	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147th ST	RABF	701+48.71	0.5 LT	708.73	704.98			704.98
153	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147th ST	RABB	301+94.48	0.5 RT	708.45		705.19	705.19	
154	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	147th ST	RABB	301+71.84	0.5 RT	708.78				705.42
155	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147th ST	RABA	205+53.26	0.5 RT	709.04		704.62		704.62
156	MANHOLES - TYPE A, 4' DIAMETER, TYPE 11V FRAME AND GRATE	147th ST	RABA	206+54.15	0.5 RT	711.12	707.37		705.48	705.48
157	MANHOLES - TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	147th ST	147th ST	104+43.00	34.09 RT	711.76	705.58	705.58		
158	INLETS - TYPE A, TYPE 11V FRAME AND GRATE	147th ST	RABB	300+79.01	0.5 RT	711.12	707.77			

FILE NAME = S:\JUL1520--1599\1555\004\Micros\CAD\Sheets\112345-INT-DR-INT-SCHEDULE.dgn

SA 1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND ASSOCIATES (815) 744-4200

USER NAME = BillP	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE SCHEDULES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	63
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	

**SCHEDULE OF STORM SEWERS, SANITARY SEWERS, WATER VALVE VAULTS AND
WATER VALVE BOXES TO BE ADJUSTED, RECONSTRUCTED, OR REMOVED**

STRUCTURE TYPE	STATION	OFFSET	RT/LT	EX RIM ELEV	PROP. RIM ELEV.	DRAINAGE & UTILITY STRUCTURE ADJUSTMENT (SPECIAL)	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED (SPECIAL)	DRAINAGE STRUCTURE TO BE REMOVED
RAVINIA AVENUE								
STORM	17+29.68	38.89	LT	716.56	717.13		1	
STORM	17+75.35	51.00	LT	715.36	716.16		1	
STORM	17+83.43	19.00	LT	715.83	715.83	1		
STORM	20+88.73	19.37	LT					1
STORM	20+97.27	44.85	RT					1
STORM	21+83.15	22.54	LT	711.82	711.82	1		
VAULT	21+86.65	51.04	RT	713.76	713.68	1		
SAN	21+97.33	36.15	RT	712.89	712.64		1	
SAN	22+42.47	9.73	LT	711.5	711.60		1	
SAN	22+58.85	21.18	LT	711.11	711.24	1		
STORM	23+88.09	32.29	RT					1
STORM	23+96.41	20.82	LT					1
SAN	24+44.90	18.34	LT	709.09	709.80		1	
VAULT	24+50.40	46.81	RT	710.03	710.02	1		
VAULT	24+50.40	48.88	RT	709.82	709.87		1	
STORM	24+64.18	36.55	RT					1
STORM	24+65.45	11.76	LT					1
STORM	24+70.65	38.20	LT					1
STORM	24+92.21	30.15	LT					1
STORM	25+14.01	41.97	RT					1
STORM	25+21.13	34.91	LT					1
SAN	25+23.60	14.36	LT	707.41	712.38		1	
SAN	26+35.80	21.60	LT	705.85	707.34		1	
VALVE BOX	27+59.91	25.89	RT	704.08	704.23	1		
SAN	28+15.66	17.89	LT	703.25	703.00		1	
STORM	28+48.88	38.00	RT	705.62	704.70		1	
STORM	28+48.97	11.87	LT					1
STORM	28+50.48	21.31	RT					1
147TH STREET								
VALVE BOX	100+87.70	42.74	LT	713.3	713.39	1		
SAN	103+73.01	40.82	RT	710.38	710.48	1		
SAN	104+63.13	41.07	RT	712.56	712.75		1	
STORM	105+19.38	26.91	RT	712.88	713.23		1	
SAN	105+68.41	42.11	RT	715.37	715.37	1		
Totals:						9	12	12

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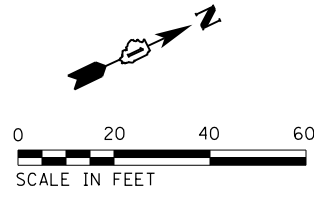
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PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE SCHEDULES

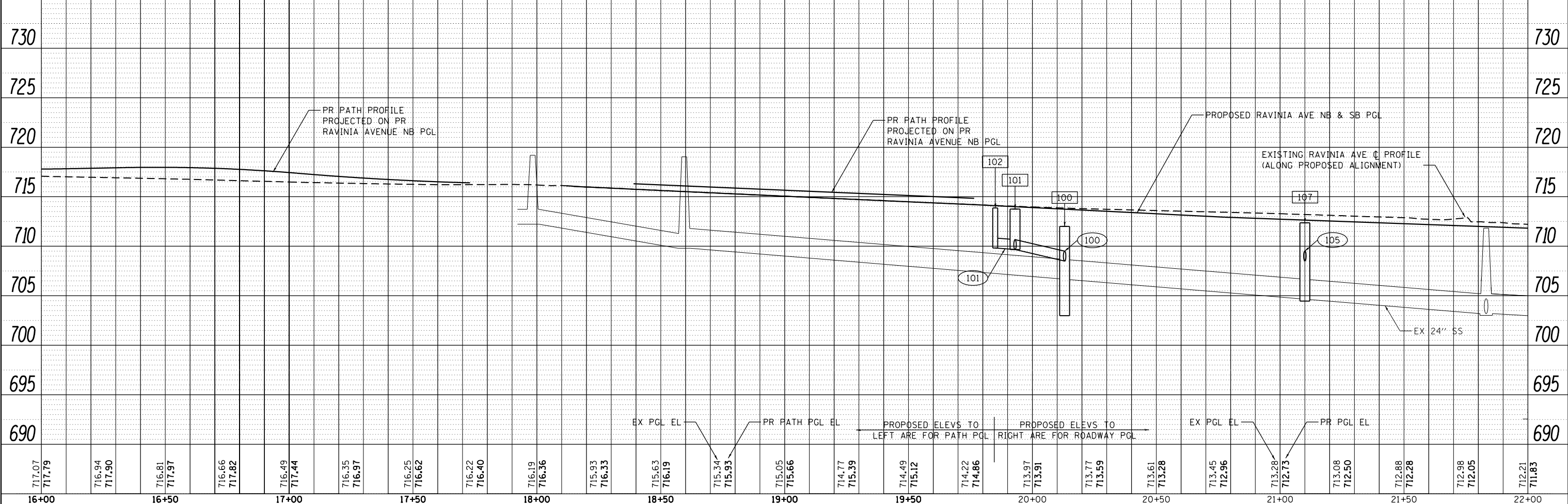
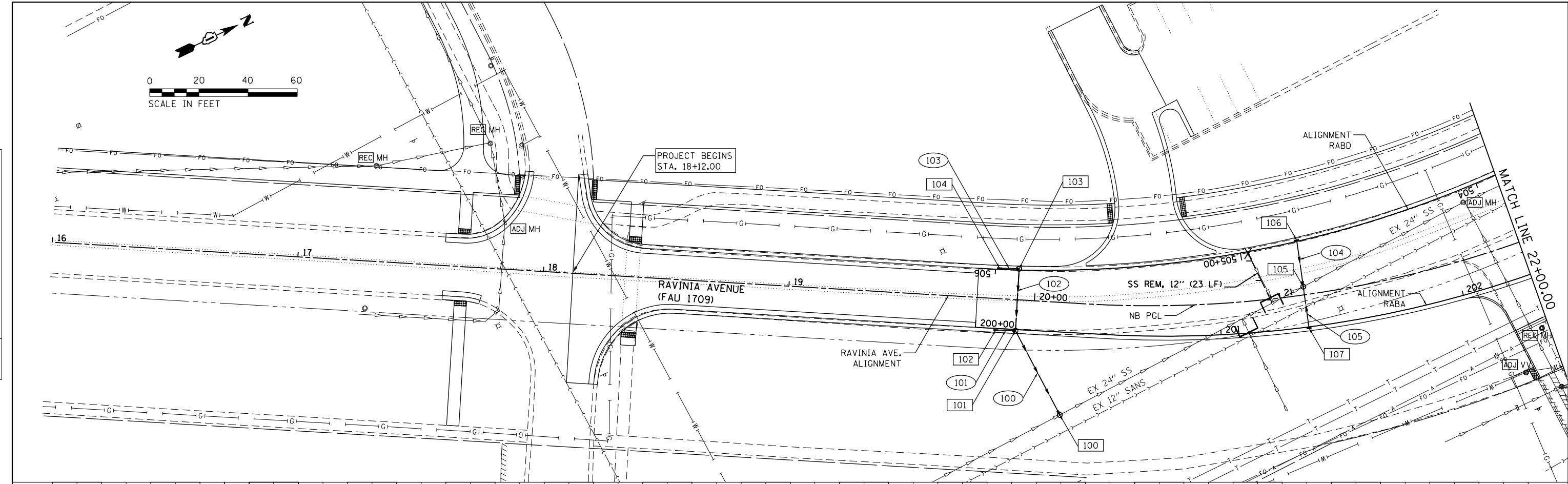
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	64
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	FILE NAME	

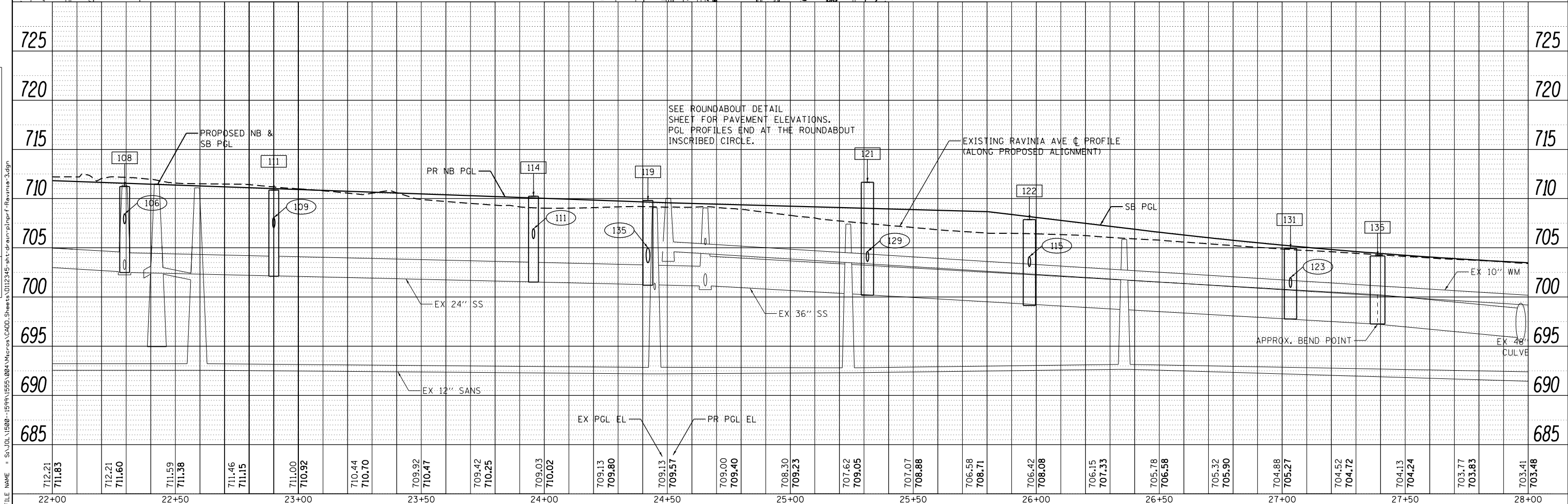
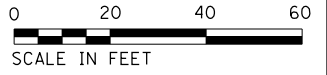
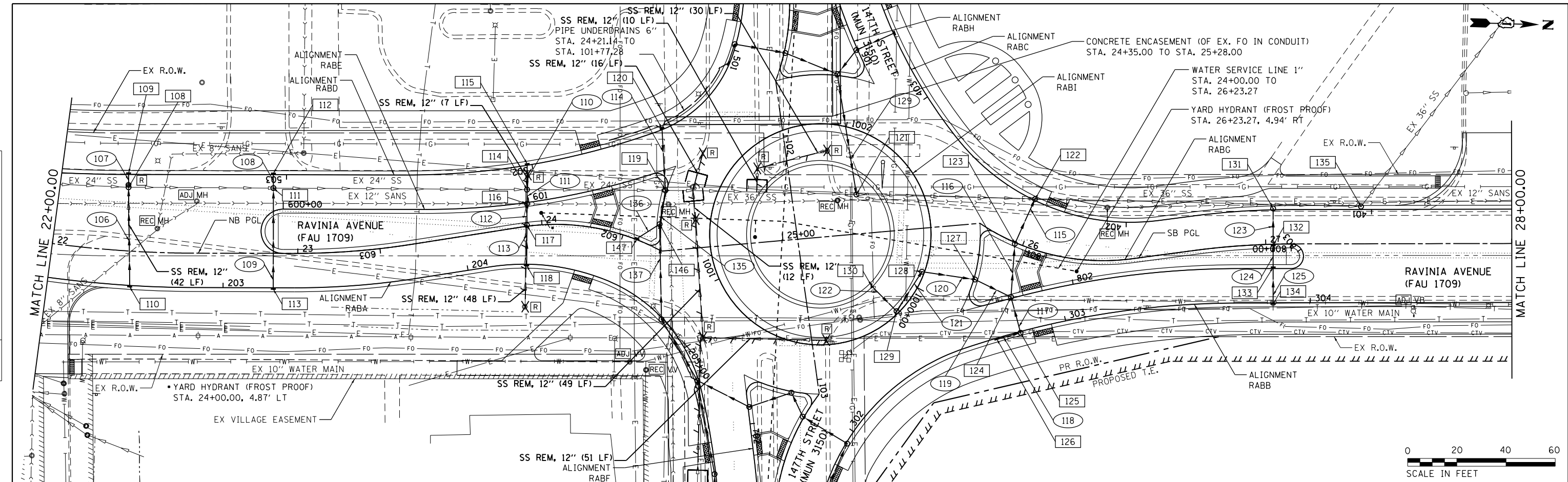
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	FILE NAME	



717.07	717.19	716.94	717.90	716.81	717.97	716.66	717.82	716.49	717.44	716.35	716.97	716.25	716.62	716.22	716.40	716.19	716.36	715.93	716.33	715.63	716.19	715.34	715.93	715.05	715.66	714.77	715.39	714.49	715.12	714.22	714.86	713.97	713.91	713.77	713.59	713.61	713.28	713.45	712.96	713.28	712.73	713.08	712.50	712.88	712.28	712.98	712.05	712.21	711.83
16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	USER NAME = B11P		DESIGNED - WRP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		RAVINIA AVENUE DRAINAGE AND UTILITY PLAN AND PROFILE				F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 65																						
1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 STRAND ASSOCIATES*		MODEL NAME = Default		DRAWN - AJJ		CHECKED - MAG		DATE - 11/29/2017		SCALE: 20		SHEET 1 OF 4 SHEETS		STA. 16+00 TO STA. 22+00		CONTRACT NO. 61E48		ILLINOIS FED. AID PROJECT																															

DATE	
BY	
PLAN	SURVEYED
	NOTED
	CHECKED
	FILED
	NO.

DATE	
BY	
PROFILE	SURVEYED
	NOTED
	CHECKED
	FILED
	NO.



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11P
 MODEL NAME = Default
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 12/15/2017

DESIGNED - WRP
 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

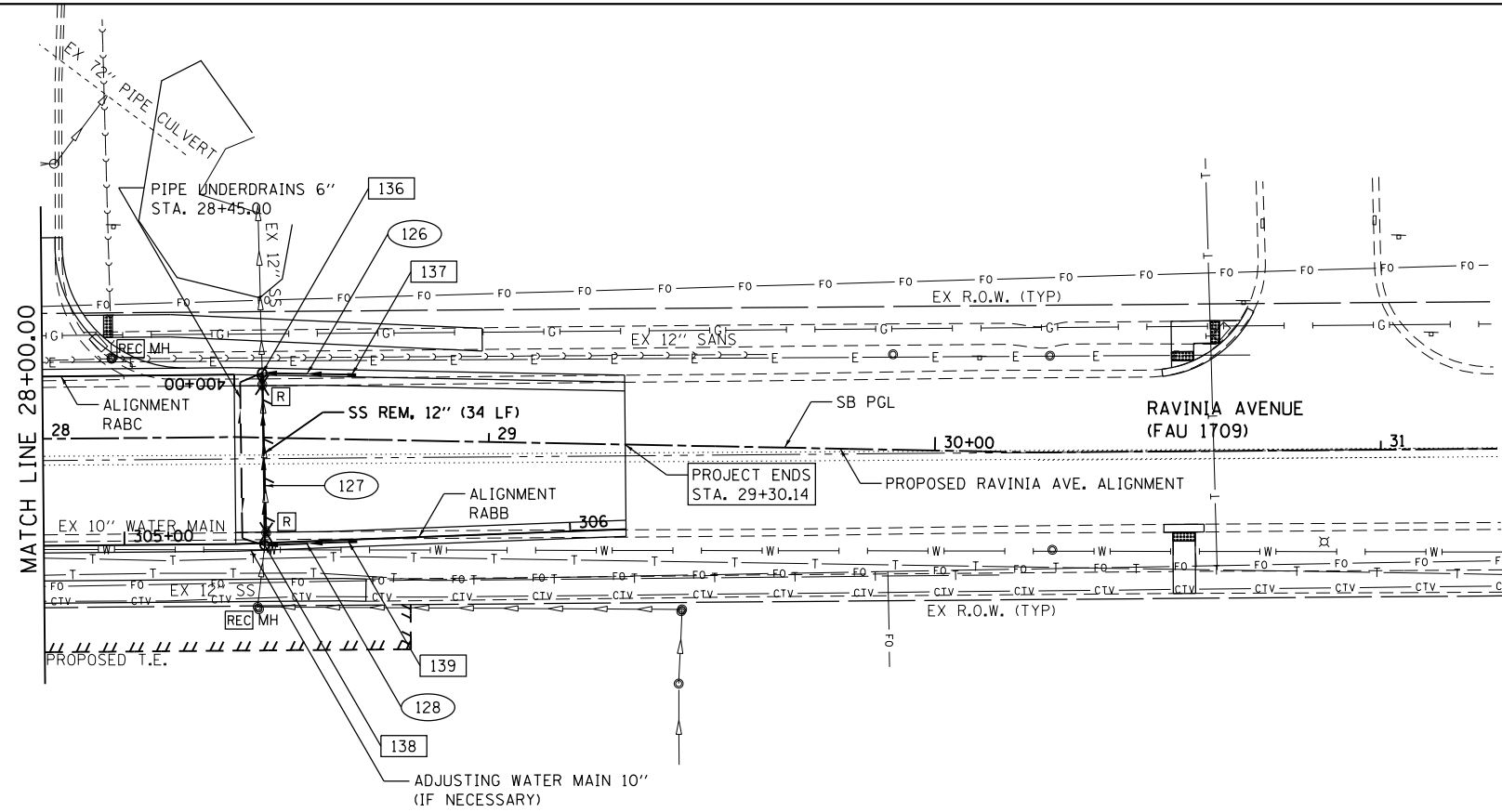
RAVINIA AVENUE DRAINAGE AND UTILITY
 PLAN AND PROFILE
 SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	66
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

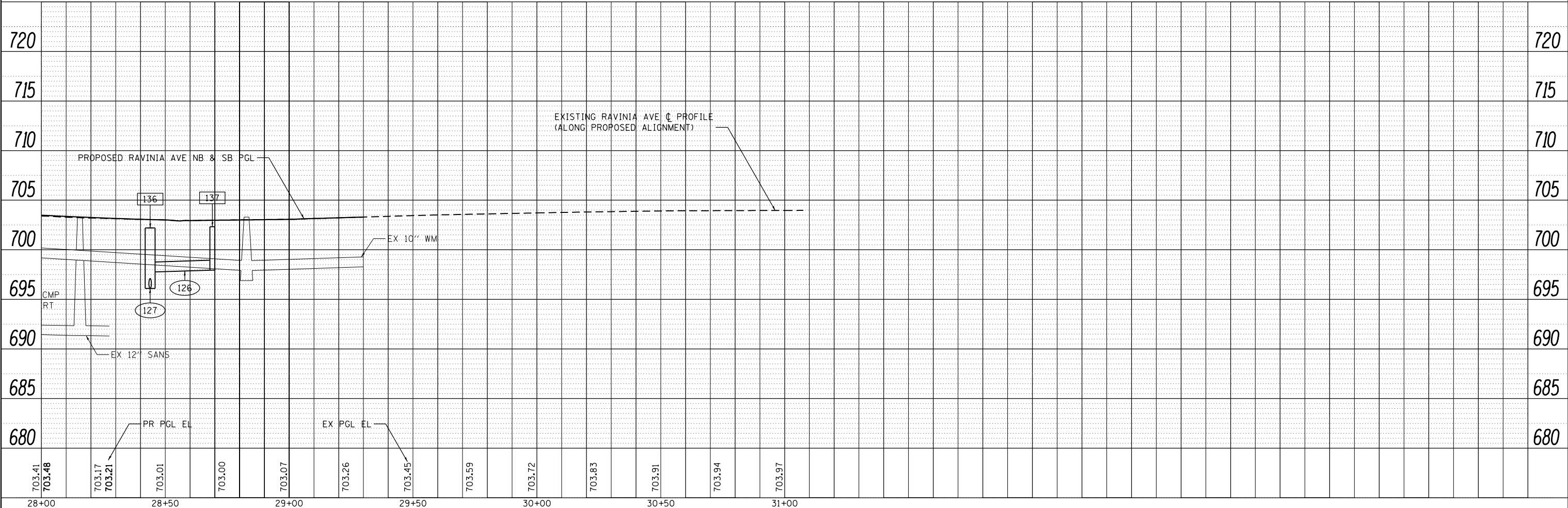
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PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



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



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STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = BillP
MODEL NAME = Default
PLOT SCALE = 40.0000' / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

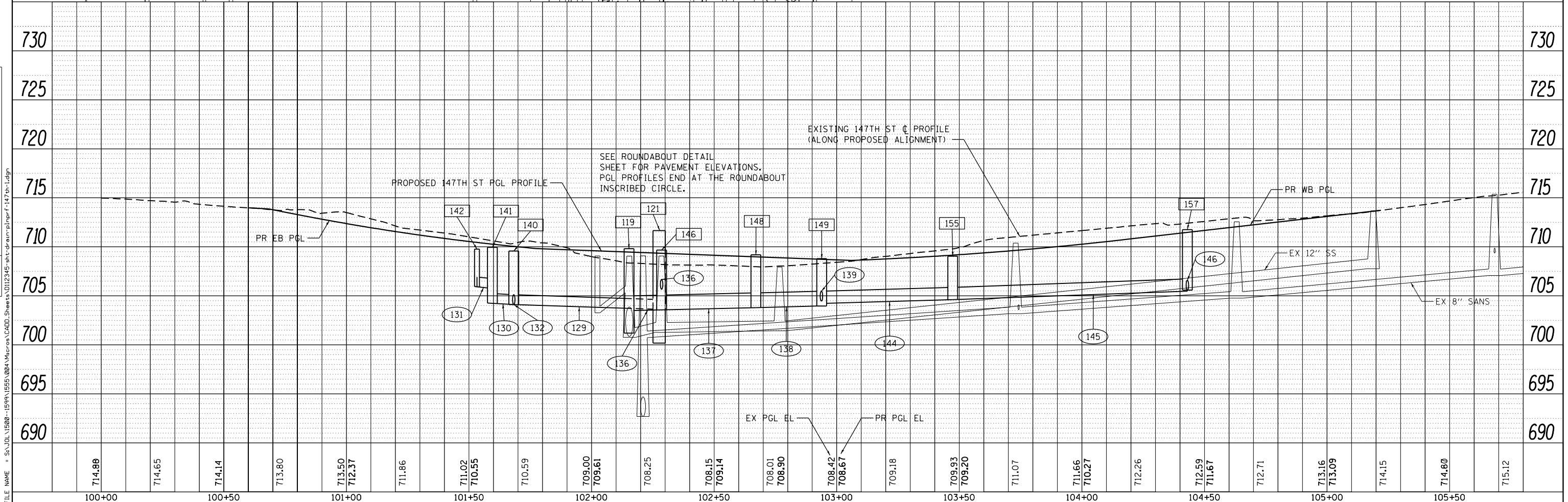
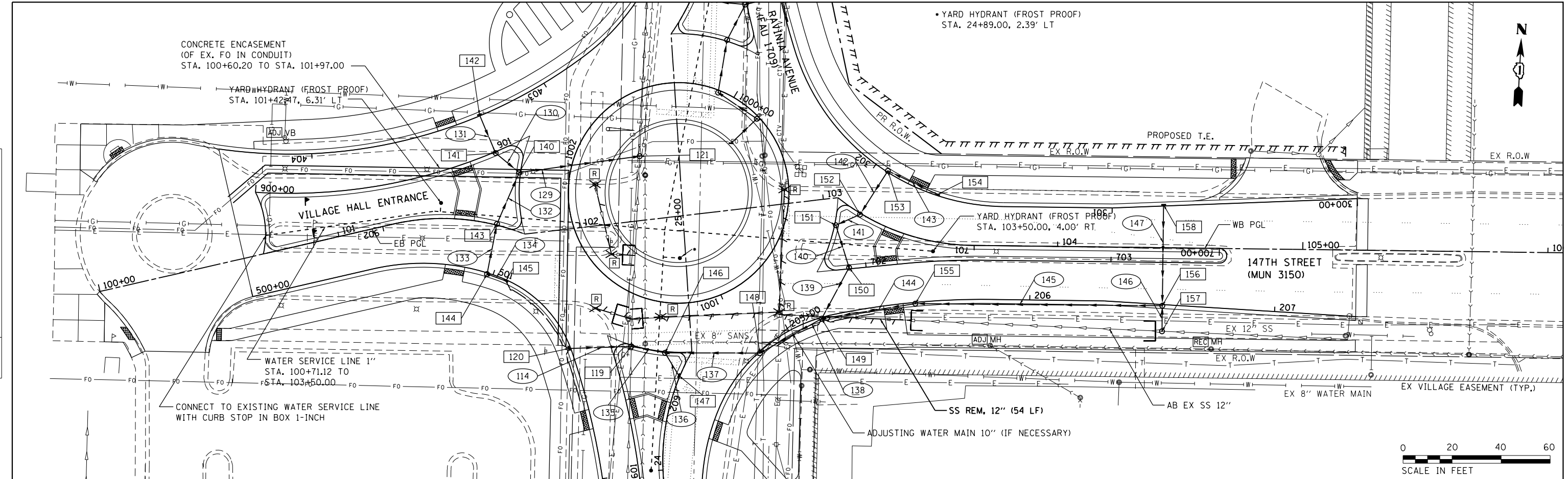
**RAVINIA AVENUE DRAINAGE AND UTILITY
PLAN AND PROFILE**

SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 31+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	67
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				

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

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



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11p	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**147TH STREET DRAINAGE AND UTILITY
 PLAN AND PROFILE**

SCALE: 20 SHEET 4 OF 4 SHEETS STA. 100+00 TO STA. 105+69

F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 68
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

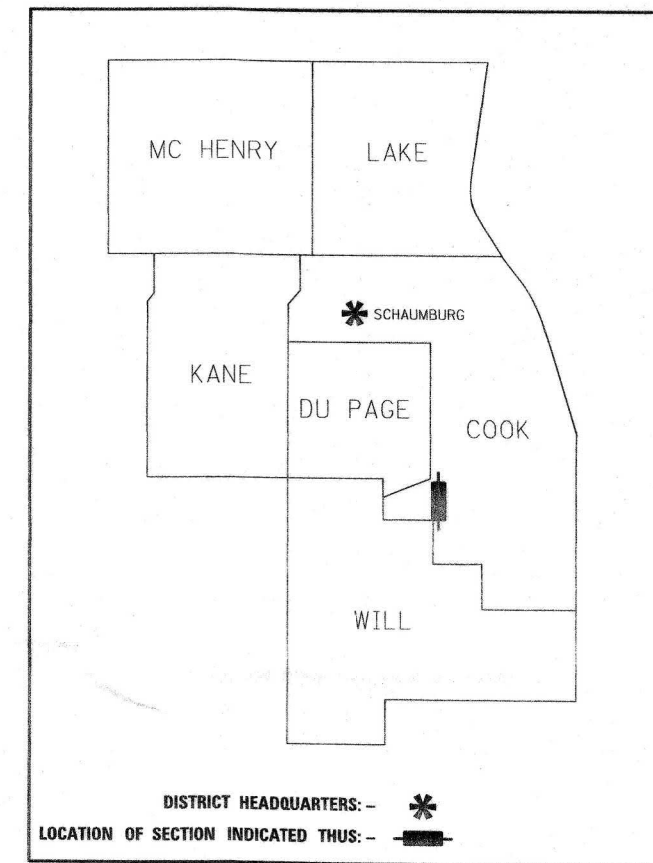
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

ROUTE: RAVINIA AVENUE
SECTION: 12-00069-00-CH
COUNTY: COOK
LIMITS: AT 147th STREET
JOB NO.: R-55-001-97

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001	14216 SC & B, LLC., AN ILLINOIS LIMITED LIABILITY COMPANY	2, 3	
0001TE	14216 SC & B, LLC., AN ILLINOIS LIMITED LIABILITY COMPANY	2, 3	



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



LOCATION MAP

GROSS LENGTH = 3191.58 FT. = 0.604 MILE, RAVINIA AVENUE
 GROSS LENGTH = 908.65 FT. = 0.172 MILE, 147th STREET
 NET LENGTH = 4100.23 FT. = 0.776 MILE

SHEET 1 OF 3 SHEETS
 IDOT USE ONLY

#17875160124
 Doc# 1787516012 Fee \$124.00
 KAREN A. YARBROUGH
 COOK COUNTY RECORDER OF DEEDS
 DATE: 02/16/2017 10:12 AM PG: 0

TOTAL SHEETS	SHEET NO.
131	69

CONTRACT NO. 61E48

PART OF THE NORTHEAST QUARTER OF SECTION 9, TWP. 36 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
0001	14216 SC & B, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2.396	0.065		2.331	0.085	3,713	27-09-220-058

LEGEND



SECTION CORNER 9 10 15 16
QUARTER SECTION CORNER



GRAPHIC SCALE
0 30
FEET
SCALE: 1" = 30'

- SECTION / 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
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC EXISTING ACCESS CONTROL LINE
- AC PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION (129.32')
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION (129.32')
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.
- ⊕ "MAG" NAIL SET
- 5/8" REBAR SET

NOTES:
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
COORDINATES, BEARINGS & DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) (2011 ADJUSTMENT) "GRID"
ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999966 PER NGS PID'S AJ2773 AND D10733.
AREA SHOWN ON THIS PLAT ARE GROUND.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

PT. NO.	STATION	OFFSET	NORTHING	EASTING
256	25+11.37	271.19' RT.	1,805,686.3637	1,115,012.5092
263	25+16.36	271.60' RT.	1,805,691.3607	1,115,012.3366
260	25+24.30	106.92' RT.	1,805,680.1476	1,114,847.8466
264	25+29.16	108.95' RT.	1,805,685.2060	1,114,849.3001
240	25+29.42	41.95' RT.	1,805,677.6891	1,114,782.7228
261	25+55.29	71.14' RT.	1,805,706.7715	1,114,808.7076
265	25+57.84	75.82' RT.	1,805,709.8529	1,114,813.0675
266	26+55.18	43.41' RT.	1,805,802.4033	1,114,789.0390
262	26+76.70	36.04' RT.	1,805,821.8370	1,114,778.4599
268	28+83.15	36.83' RT.	1,806,023.0218	1,114,772.5101
267	28+83.43	46.83' RT.	1,806,023.3174	1,114,782.5058

PROPOSED RAVINA AVENUE
CURVE DATA CURVE P_RAV_1-5
PI STA. = 26+14.35
I = 41° 21' 42" (LT)
D = 63° 39' 43"
R = 90.00'
T = 33.97'
L = 64.97'
E = 6.20'
P.C. STA. = 25+80.38
P.T. STA. = 26+45.35

PROPOSED RAVINA AVENUE
CURVE DATA CURVE P_RAV_1-6
PI STA. = 26+84.10
I = 04° 52' 00" (RT)
D = 19° 07' 50"
R = 299.50'
T = 12.73'
L = 25.44'
E = 0.27'
P.C. STA. = 26+71.37
P.C.C. STA. = 26+96.81

PROPOSED RAVINA AVENUE
CURVE DATA CURVE P_RAV_1-7
PI STA. = 27+03.57
I = 02° 35' 09" (RT)
D = 19° 07' 50"
R = 299.50'
T = 6.76'
L = 13.52'
E = 0.076'
P.C. STA. = 26+96.81
P.T. STA. = 27+10.33

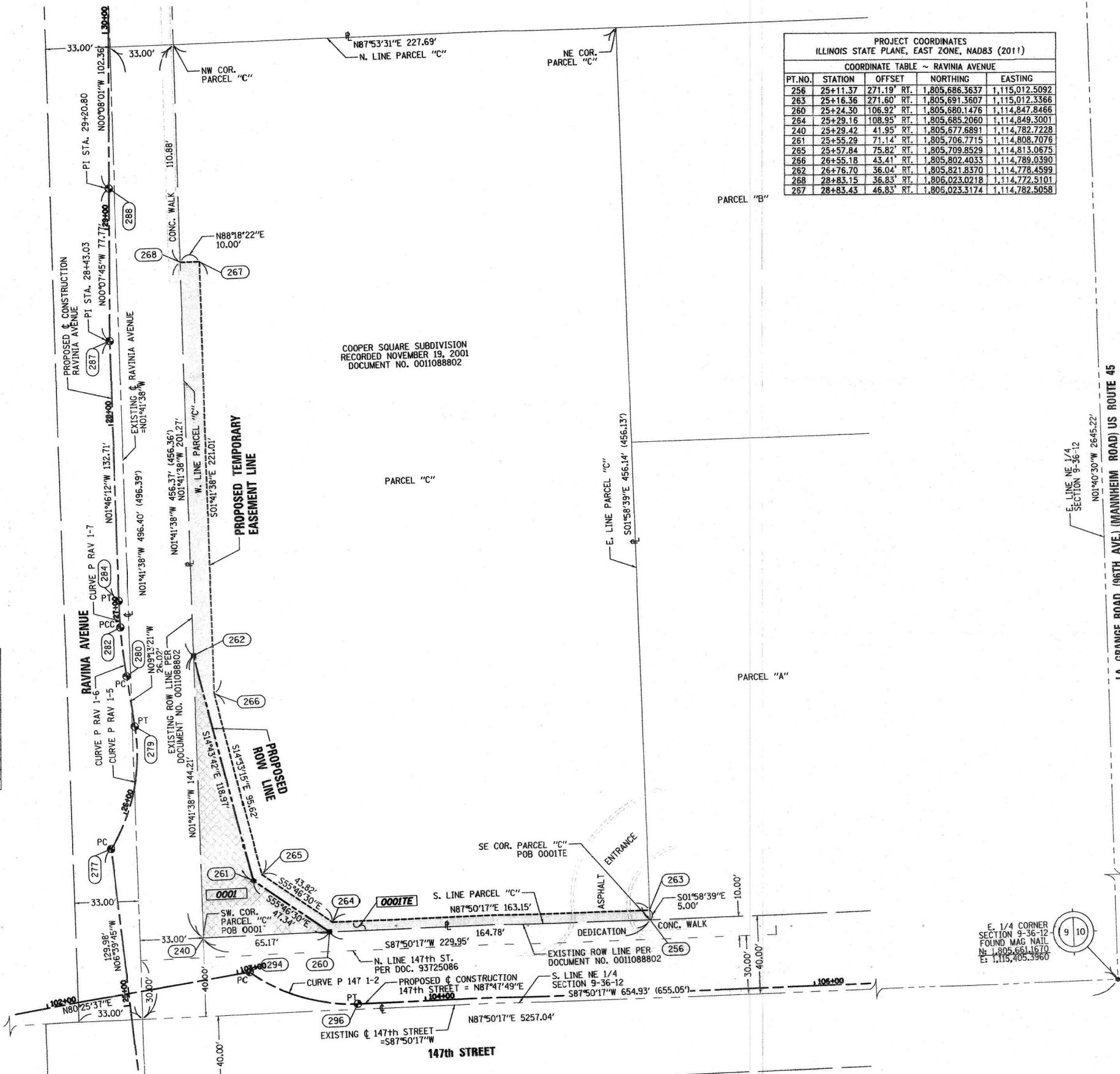
PROPOSED 147th STREET
CURVE DATA CURVE P_147_1-2
PI STA. = 103+36.65
I = 37° 41' 13" (LT)
D = 63° 39' 43"
R = 90.00'
T = 30.71'
L = 59.20'
E = 5.10'
P.C. STA. = 103+05.94
P.T. STA. = 103+65.13

PROJECT COORDINATES
ILLINOIS STATE PLANE,
EAST ZONE, NAD83 (2011)

PROPOSED CL COORDINATE TABLE

PT. NO.	NORTHING	EASTING
277	1,805,723.4392	1,114,735.1412
279	1,805,785.7415	1,114,747.7698
280	1,805,811.4266	1,114,743.5994
282	1,805,836.6797	1,114,740.5930
284	1,805,850.1755	1,114,739.8708
287	1,805,982.8188	1,114,735.7717
288	1,806,060.5838	1,114,735.5962
294	1,805,660.1565	1,114,806.4824
296	1,805,643.5081	1,114,862.1847

PRINTING DATE: MARCH 1, 2017 JLS /Microstation/6017 Sheet.dgn



STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 9, TOWNSHIP 36 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. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 1ST DAY OF MARCH, 2017 A.D.

David A. Claassen VICE PRESIDENT
DAVID A. CLAASSEN
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962
LICENSE EXPIRES NOVEMBER 30, 2018
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3720 claassenwhite@cwasurevey.com
CWA Job #6017

PLAT OF HIGHWAYS
VILLAGE OF ORLAND PARK
DEPARTMENT OF TRANSPORTATION
RAVINA AVENUE

LIMITS: AT 147th STREET COUNTY: COOK
SECTION: 12-00069-00-CH JOB NO.: R-55-001-97
STA. 25+00.00 TO STA. 29+00.00
SCALE: 1" = 30' SHEET 2 OF 3 SHEETS

VILLAGE OF ORLAND PARK
14700 S. RAVINA AVE.
ORLAND PARK, ILLINOIS 60462

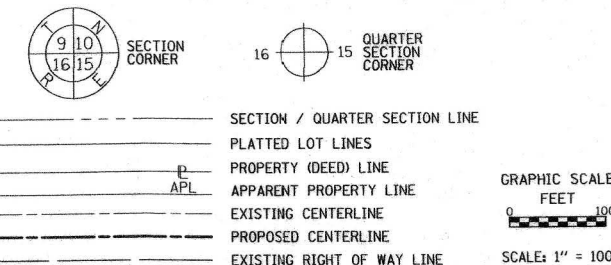
TOTAL SHEETS	SHEET NO.
131	70

CONTRACT NO. 61E48

REVISION DATE: / / REVISION MADE BY:

PART OF THE EAST HALF OF SECTION 9, TWP. 36 N., R. 12 E. OF THE 3RD. P., IN COOK COUNTY, ILLINOIS.

LEGEND

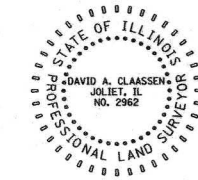


- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- ⊙ PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

NOTES:
 ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 COORDINATES, BEARINGS & DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) (2011 ADJUSTMENT) "GRID"
 ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999966 PER NGS PID'S AJ2773 AND D10733.
 AREA SHOWN ON THIS PLAT ARE GROUND.

STATE OF ILLINOIS)
) SS
 COUNTY OF WILL)
 THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 9, TOWNSHIP 36 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. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 1ST DAY OF MARCH, 2017 A.D.
 David A. Claassen VICE PRESIDENT
 DAVID A. CLAASSEN
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962
 LICENSE EXPIRES NOVEMBER 30, 2018
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



CWA SURVEY
 CLAASSEN, WHITE & ASSOCIATES, P.C.
 LAND SURVEYORS
 121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
 (815) 744-3720 claassenwhite@cwasurevey.com
 CWA Job #6017

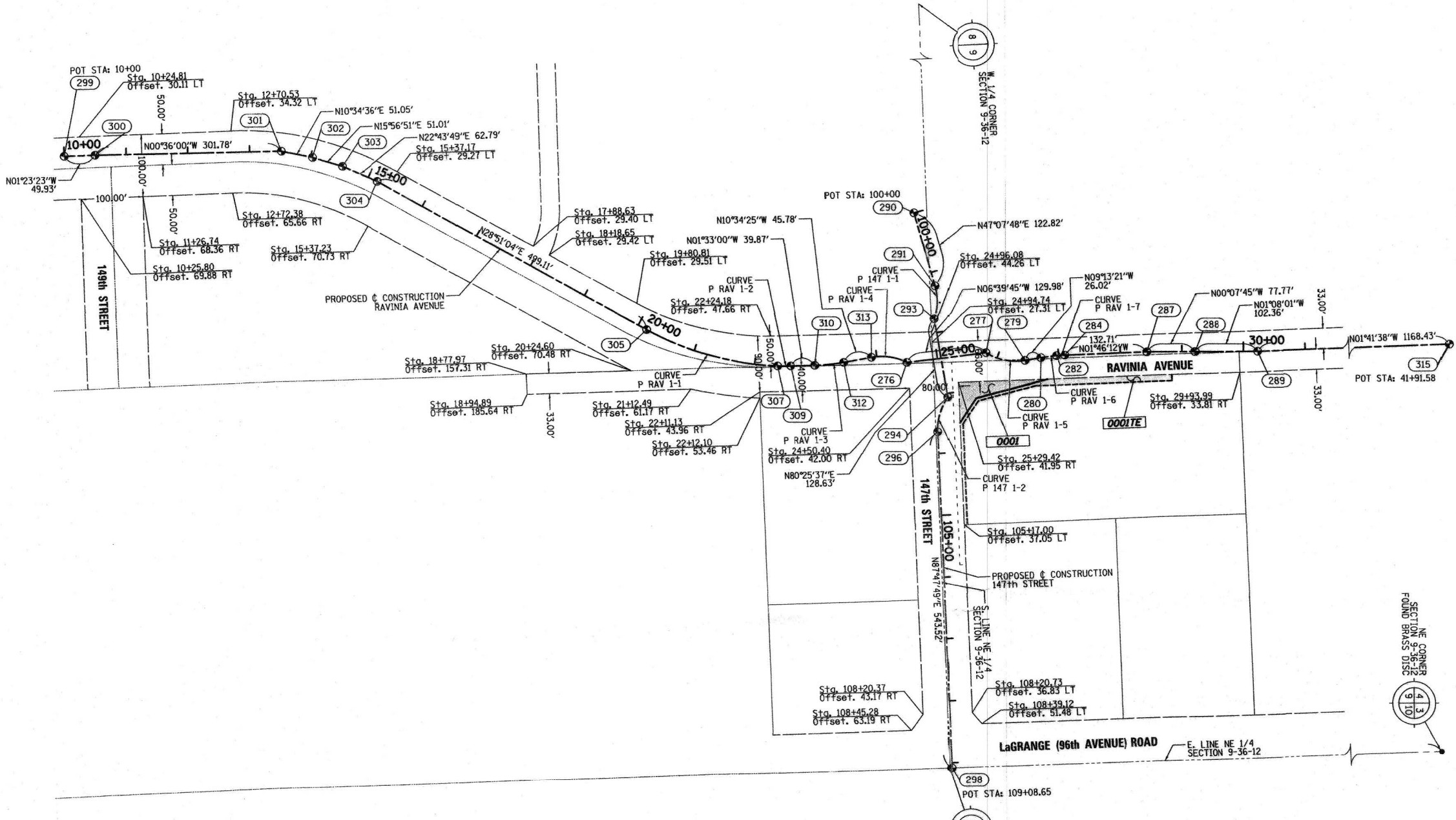
PLAT OF HIGHWAYS
VILLAGE OF ORLAND PARK
DEPARTMENT OF TRANSPORTATION
RAVINA AVENUE

LIMITS: AT 147th STREET COUNTY: COOK
 SECTION: 12-00069-00-CH JOB NO.: R-55-001-97
 STA. 10+00.00 TO STA. 42+00.00
 SCALE: 1" = 100' SHEET 3 OF 3 SHEETS

VILLAGE OF ORLAND PARK
 14700 S. RAVINA AVE.
 ORLAND PARK, ILLINOIS 60462

TOTAL SHEETS	131
SHEET NO.	71

PRINTING DATE: MARCH 1, 2017 J.S. MICROSTATION/BDT Sheet 3.dgn



- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-1
 PI STA. = 21+28.80
 Δ = 28° 13' 20" (LT)
 D = 12° 43' 57"
 R = 450.00'
 T = 113.13'
 L = 221.66'
 E = 14.00'
- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-2
 PI STA. = 22+48.05
 Δ = 02° 43' 40" (LT)
 D = 12° 43' 57"
 R = 450.00'
 T = 10.71'
 L = 21.42'
 E = 0.13'
- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-3
 PI STA. = 23+22.30
 Δ = 09° 01' 26" (LT)
 D = 19° 05' 55"
 R = 300.00'
 T = 23.67'
 L = 47.25'
 E = 0.93'
- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-4
 PI STA. = 24+22.12
 Δ = 37° 23' 42" (RT)
 D = 63° 39' 43"
 R = 90.00'
 T = 30.46'
 L = 58.74'
 E = 5.01'
- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-5
 PI STA. = 26+14.35
 Δ = 41° 21' 42" (LT)
 D = 63° 39' 43"
 R = 90.00'
 T = 33.91'
 L = 64.91'
 E = 6.20'
- PROPOSED RAVINA AVENUE
 CURVE DATA CURVE P.RAV.1-6
 PI STA. = 26+84.10
 Δ = 04° 52' 00" (RT)
 D = 19° 07' 50"
 R = 299.50'
 T = 12.73'
 L = 25.44'
 E = 0.27'
- PROPOSED 147th STREET
 CURVE DATA CURVE P.147.1-1
 PI STA. = 27+03.57
 Δ = 02° 35' 09" (RT)
 D = 19° 07' 50"
 R = 299.50'
 T = 6.76'
 L = 13.52'
- PROPOSED 147th STREET
 CURVE DATA CURVE P.147.1-2
 PI STA. = 101+50.93
 Δ = 34° 41' 12" (RT)
 D = 63° 39' 43"
 R = 90.00'
 T = 28.11'
 L = 54.49'
 E = 4.29'
- PROPOSED 147th STREET
 CURVE DATA CURVE P.147.1-3
 PI STA. = 103+36.65
 Δ = 37° 41' 13" (LT)
 D = 63° 39' 43"
 R = 90.00'
 T = 30.71'
 L = 59.20'
 E = 5.10'

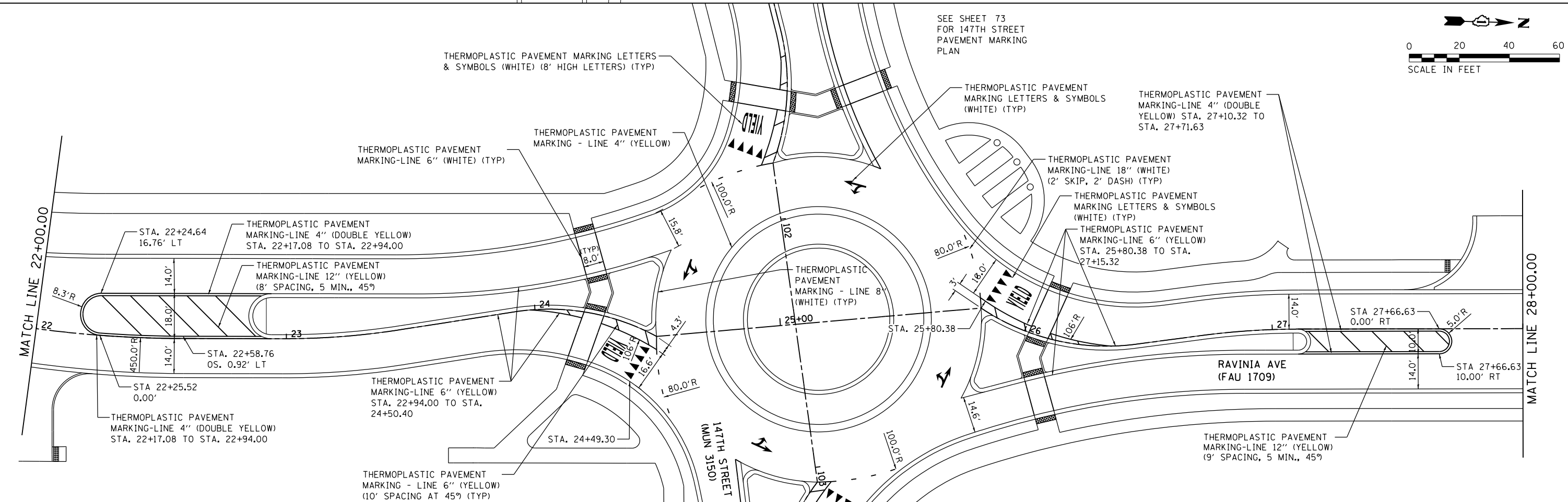
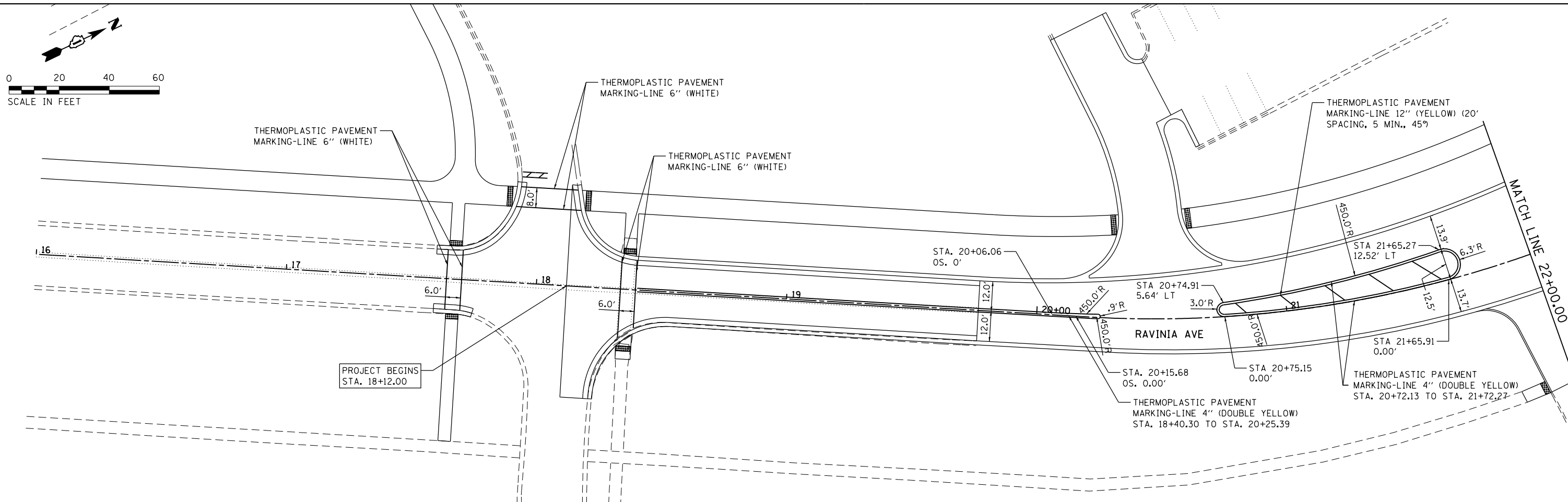
PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)				
COORDINATE TABLE ~ RAVINA AVENUE				
PT. NO.	STATION	OFFSET	NORTHING	EASTING
299	10+00.00	0.00' RT.	1,804,226.3534	1,114,414.6224
300	10+49.93	0.00' RT.	1,804,276.2688	1,114,413.4115
301	13+51.71	0.00' RT.	1,804,578.0332	1,114,410.2517
302	14+02.76	0.00' RT.	1,804,628.2146	1,114,419.6218
303	14+53.77	0.00' RT.	1,804,677.2646	1,114,433.6381
304	15+16.57	0.00' RT.	1,804,735.1801	1,114,457.9007
305	20+15.68	0.00' RT.	1,805,172.3419	1,114,698.7396
307	22+37.34	0.00' RT.	1,805,383.9995	1,114,756.5994
309	22+58.76	0.00' RT.	1,805,405.4218	1,114,756.5298
310	22+98.63	0.00' RT.	1,805,445.2782	1,114,755.4514
312	23+45.88	0.00' RT.	1,805,492.2139	1,114,750.4671
313	23+91.66	0.00' RT.	1,805,537.2148	1,114,742.0669
276	24+50.40	0.00' RT.	1,805,594.3387	1,114,750.2211
277	25+80.38	0.00' RT.	1,805,723.4392	1,114,735.1412
279	26+45.35	0.00' RT.	1,805,785.7415	1,114,747.7698
280	26+71.37	0.00' RT.	1,805,811.4266	1,114,743.5994
282	26+96.81	0.00' RT.	1,805,836.6797	1,114,740.5930
284	27+10.32	0.00' RT.	1,805,850.1755	1,114,739.8708
287	28+43.03	0.00' RT.	1,805,982.8188	1,114,735.7717
288	29+20.80	0.00' RT.	1,806,060.5838	1,114,735.5962
289	30+23.16	0.00' RT.	1,806,162.9437	1,114,735.3577
315	41+91.58	0.00' RT.	1,807,330.8597	1,114,700.8181

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)				
COORDINATE TABLE ~ 147th STREET				
PT. NO.	STATION	OFFSET	NORTHING	EASTING
290	100+00.00	0.00' RT.	1,805,606.9578	1,114,507.8646
291	101+22.82	0.00' RT.	1,805,640.1449	1,114,626.0067
293	101+77.31	0.00' RT.	1,805,638.7654	1,114,679.6463
294	103+05.94	0.00' RT.	1,805,660.1565	1,114,806.4824
296	103+65.13	0.00' RT.	1,805,643.5081	1,114,862.1847
298	109+08.65	0.00' RT.	1,805,664.4011	1,115,405.3014

REVISION DATE: / / REVISION MADE BY:

IDOT USE ONLY

I DO NOT FIND ANY DELINQUENT GENERAL TAXES UNPAID
 CURRENT GEN. REL. TAXES DELINQUENT SPECIAL ASSESSMENTS
 OR UNPAID CURRENT SPECIAL ASSESSMENTS AGAINST THE
 TRACT OF LAND IN THE ABOVE PLAT.
 David M. DM (RD)
 DATE Mar. 16, 17 COUNTY CLERK



FILE NAME = S:\JUL\15200-1\B99\1555\004\Micro\CA00\Sheets\11212345-shr-pmk-1.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

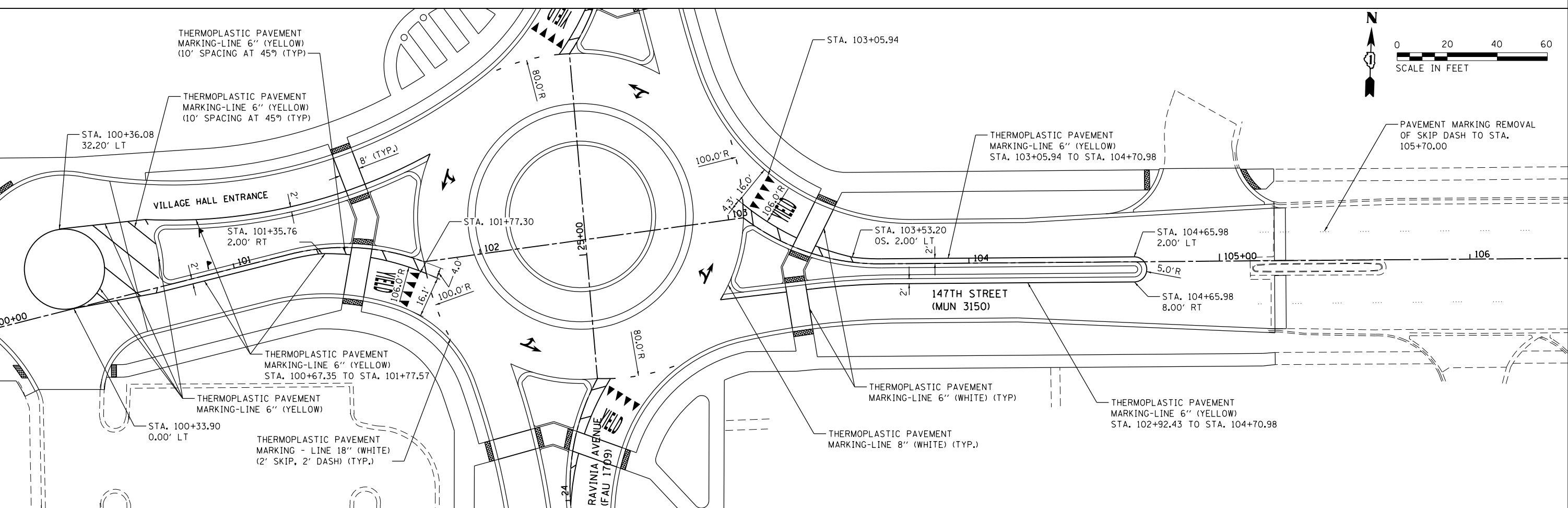
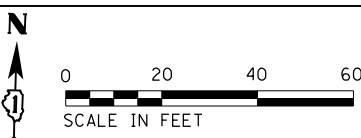
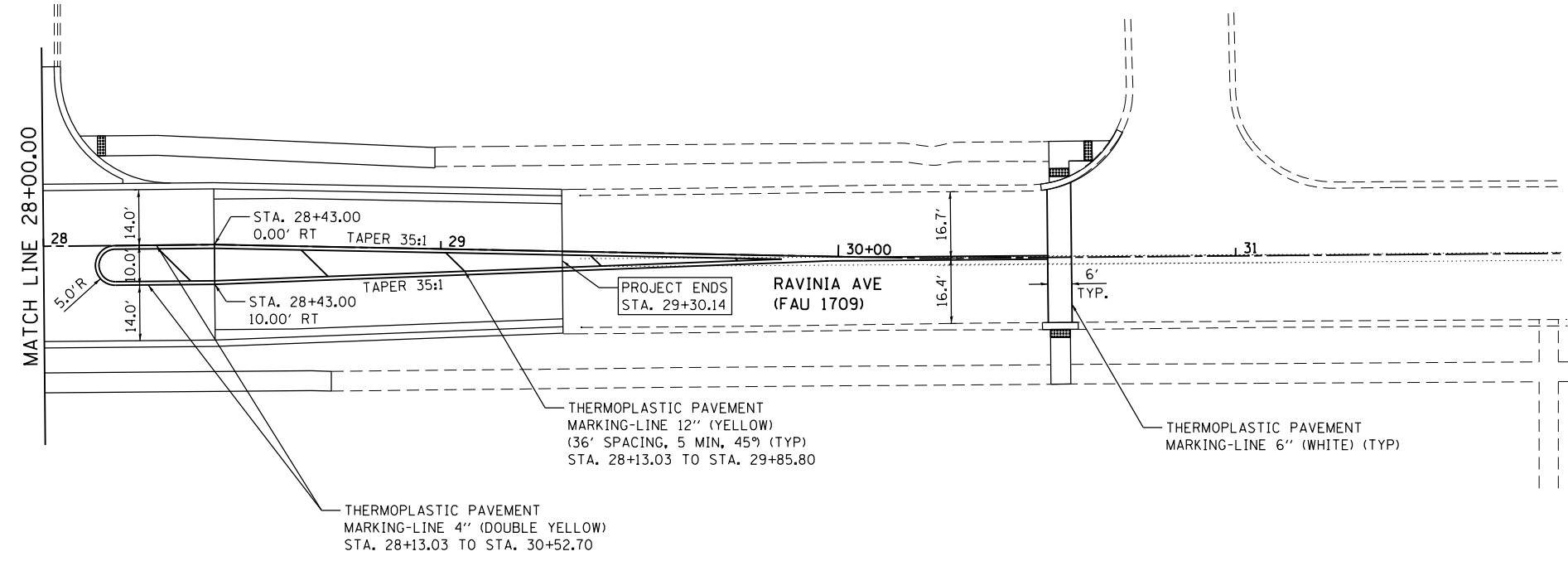
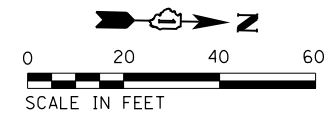
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
 PAVEMENT MARKING PLAN**

SCALE: 20 SHEET 1 OF 2 SHEETS STA. 16+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	72
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



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PLOT SCALE = 48.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE AND 147TH STREET
PAVEMENT MARKING PLAN**

SCALE: 20 SHEET 2 OF 2 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	73
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

EXISTING SIGN SCHEDULE

SIGN #	DESCRIPTION	DESIGNATION	EXISTING LOCATION			EXISTING SIZE		REMOVE SIGN PANEL TYPE 1 (SQ FT)	RELOCATE SIGN PANEL TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY - TYPE A (EACH)
			STA.	OFFSET RT/LT	SUPPORT TYPE	WIDTH (FT)	HEIGHT (FT)				
EX1-1	Stop Sign	R1-1	17+90.00	L	GROUND MOUNT	2.5	2.5			1.00	1.00
EX1-2	Cross Traffic Does Not Stop		17+90.00	L	GROUND MOUNT	1.5	1				
EX1-3	Speed Limit	R2-1	19+62.00	L	LIGHT POLE	2.0	2.5	5.00			
EX1-4	No Parking		19+62.00	L	LIGHT POLE	1.0	1.5	1.50			
EX1-5	Lane Control	R3-8	21+23.00	R	LIGHT POLE	2.5	2.5	6.25			
EX2-1	Street Name		24+50.00	R	LIGHT POLE	2.5	0.8	2.00			
EX2-2	Street Name		24+50.00	R	LIGHT POLE	2.5	0.8	2.00			
EX2-3	Stop Sign	R1-1	24+50.00	R	LIGHT POLE	2.5	2.5	6.25			
EX2-4	All Way	R1-3P	24+50.00	R	LIGHT POLE	1.0	0.5	0.50			
EX2-5	LED Street Light		24+50.00	R	LIGHT POLE	1.5	1.0	1.50			
EX2-6	Stop Sign	R1-1	25+17.00	R	GROUND MOUNT	2.5	2.5			1.00	
EX2-7	All Way	R1-3P	25+17.00	R	GROUND MOUNT	1.0	0.5				
EX2-8	Speed Limit	R2-1	26+48.00	R	GROUND MOUNT	2.0	2.5			1.00	
EX2-9	No Parking		26+48.00	R	GROUND MOUNT	1.0	1.5				
EX2-10	Lane Control	R3-8	27+27.00	L	GROUND MOUNT	2.5	2.5			1.00	
EX2-11	No Parking		27+27.00	L	GROUND MOUNT	1.0	1.5				
EX2-12	Stop Sign	R1-1	25+30.00	L	GROUND MOUNT	2.5	2.5			1.00	
EX2-13	All Way	R1-3P	25+30.00	L	GROUND MOUNT	1.0	0.5				
EX2-14	Traffic Circle		100+75.00	L	GROUND MOUNT	2.0	2.0			1.00	1.00
EX2-15	No U-Turn	R3-4	100+75.00	L	GROUND MOUNT	2.0	2.0			1.00	
EX2-16	Secretary of State		24+98.00	L	GROUND MOUNT	2.0	1.5			1.00	
EX2-17	Stop Sign	R1-1	24+70.00	L	GROUND MOUNT	2.5	2.5			1.00	
EX2-18	All Way	R1-3P	24+70.00	L	GROUND MOUNT	1.0	0.5				
EX2-19	Stop Sign	R1-1	22+69.00	L	GROUND MOUNT	2.5	2.5			1.00	
EX2-20	Library	I-8	22+42.00	L	LIGHT POLE	2.0	2.0	4.00	4.00		
EX2-21	Arrow	M6-1	22+42.00	L	LIGHT POLE	1.0	0.8	0.75	0.75		
EX2-22	No Parking		22+42.00	L	LIGHT POLE	1.0	1.5	1.50			
EX2-23	LED Street Light		22+42.00	L	LIGHT POLE	1.5	1.0	1.50			
EX3-1	Speed Limit	R2-1	30+00	L	GROUND MOUNT	2.0	2.5			1.00	
EX3-2	No Parking		30+00	L	GROUND MOUNT	1.0	1.5				
EX4-1	Lane Control	R3-8	104+00	L	GROUND MOUNT	2.5	2.5			1.00	
TOTAL								33.00	5.00	11.00	1.00

FILE NAME = \\strand.com\projects\101\1500-1599\1595\00A\Micro\CA010.Sheets\1112345-1ht-sign-schedule.dgn

PROPOSED SIGN SCHEDULE

SIGN #	DESCRIPTION	DESIGNATION	PROPOSED LOCATION			PROPOSED SIZE		INSTALL					
			STA.	OFFSET L/R	SUPPORT TYPE	WIDTH (FT)	HEIGHT (FT)	SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 2 (SQ FT)	SIGN PANEL - TYPE 3 (SQ FT)	TELESCOPING STEEL SIGN SUPPORT (FT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)	
1-1	Pedestrian	W11-2	18+40.00	L	GROUND MOUNT	3	3	9.0				17.2	
1-2	Arrow	W16-7P	18+40.00	L	GROUND MOUNT	2	1	2.0					
1-3	Pedestrian	W11-2	18+40.00	L	GROUND MOUNT	3	3	9.0				17.2	
1-4	Arrow	W16-7P	18+40.00	L	GROUND MOUNT	2	1	2.0					
1-5	Stop	R1-1	20+27.00	L	GROUND MOUNT	2.5	2.5	6.3				14.5	
1-6	Pedestrian	W11-2	18+40.00	L	GROUND MOUNT	3	3	9.0				17.2	
1-7	Arrow	W16-7P	18+40.00	L	GROUND MOUNT	2	1	2.0					
1-8	Pedestrian	W11-2	18+40.00	R	GROUND MOUNT	3	3	9.0				17.2	
1-9	Arrow	W16-7P	18+40.00	R	GROUND MOUNT	2	1	2.0					
1-10	Circular Intersection	W2-6	20+80.00	R	GROUND MOUNT	3.0	3.0	9.0				18.2	
1-11	Advisory Speed	W13-1	20+80.00	R	GROUND MOUNT	2.0	2.0	4.0					
1-12	Destination	D1-5	21+65.00	R	GROUND MOUNT	10.5	6.5			68.3	*		
2-1	Speed Limit	R2-1	22+50.00	L	GROUND MOUNT	2.0	2.5	5.0				14.5	
2-2	No Parking	R8-3	22+50.00	L	GROUND MOUNT	2.0	2.0	4.0					
2-3	Yield Ahead	W3-2	22+50.00	R	GROUND MOUNT	3.0	3.0	9.0				16.2	
2-4	Keep Right	R4-7	22+90.00	L	GROUND MOUNT	2.0	2.5	5.0				14.6	1
2-5	Object Marker	OM1-3	22+90.00	L	GROUND MOUNT	1.5	1.5	2.3					
2-6	Yield	R1-2	24+43.00	L	GROUND MOUNT	3.0	2.6	7.8				15.1	1
2-7	Roundabout Circulation	R6-5	24+43.00	L	GROUND MOUNT	2.5	2.5	6.3					
2-8	Yield	R1-2	24+50.00	R	GROUND MOUNT	3.0	2.6	7.8				14.6	
2-9	Destination	D1-1E	24+84.00	R	GROUND MOUNT	4.0	3.0			12.0		26.0	2
2-10	Yield	R1-2	25+02.00	R	GROUND MOUNT	3.0	2.6	7.8				15.1	1
2-11	Roundabout Circulation	R6-5	24+43.00	L	GROUND MOUNT	2.5	2.5	6.3					
2-12	Yield	R1-2	25+37.00	R	GROUND MOUNT	3.0	2.6	7.8				14.6	
2-13	Destination	D1-1E	25+94.00	R	GROUND MOUNT	4.5	3.0			13.5		26.0	2
2-14	Speed Limit	R2-1	27+00.00	R	GROUND MOUNT	2.0	2.5	5.0				14.5	
2-15	No Parking	R8-3	27+00.00	R	GROUND MOUNT	2.0	2.0	4.0					
2-16	Destination	D1-5	32+00.00	L	GROUND MOUNT	10.5	6.5			68.3	*		
2-17	Keep Right	R4-7	27+10.00	R	GROUND MOUNT	2.0	2.5	5.0				14.6	
2-18	Object Marker	OM1-3	27+10.00	R	GROUND MOUNT	1.5	1.5	2.3					
2-19	Yield Ahead	W3-2	27+10.00	L	GROUND MOUNT	3.0	3.0	9.0				16.2	
2-20	Yield	R1-2	25+87.00	R	GROUND MOUNT	3.0	2.6	7.8				15.1	1
2-21	Roundabout Circulation	R6-5	24+43.00	L	GROUND MOUNT	2.5	2.5	6.3					

PROPOSED SIGN SCHEDULE (CONTINUED)

SIGN #	DESCRIPTION	DESIGNATION	PROPOSED LOCATION			PROPOSED SIZE		INSTALL									
			STA.	OFFSET L/R	SUPPORT TYPE	WIDTH (FT)	HEIGHT (FT)	SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 2 (SQ FT)	SIGN PANEL - TYPE 3 (SQ FT)	TELESCOPING STEEL SIGN SUPPORT (FT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)					
2-22	Yield	R1-2	25+80.00	L	GROUND MOUNT	3.0	2.6	7.8				14.6					
2-23	Destination	D1-1E	25+34.00	L	GROUND MOUNT	4.0	3.0			12.0		26.0	2				
2-24	One Way	R6-1R	25+33.00	L	GROUND MOUNT	3.0	1.0	3.0				30.0					
2-25	Directional	R9-4	25+33.00	L	GROUND MOUNT	2.5	2.0	5.0									
2-26	One Way	R6-1R	25+00.00	L	GROUND MOUNT	3.0	1.0	3.0				30.0					
2-27	Directional	R9-4	25+33.00	L	GROUND MOUNT	2.5	2.0	5.0									
2-28	One Way	R6-1R	24+93.00	R	GROUND MOUNT	3.0	1.0	3.0				30.0					
2-29	Directional	R9-4	25+33.00	L	GROUND MOUNT	2.5	2.0	5.0									
2-30	One Way	R6-1R	25+23.00	R	GROUND MOUNT	3.0	1.0	3.0				30.0					
2-31	Directional	R9-4	25+33.00	L	GROUND MOUNT	2.5	2.0	5.0									
2-32	Circular Intersection	W2-6	100+75.00	R	GROUND MOUNT	3.0	3.0	9.0				18.2					
2-33	Advisory Speed	W13-1	100+75.00	R	GROUND MOUNT	2.0	2.0	4.0									
2-34	Destination	D1-5	101+25.00	R	GROUND MOUNT	11.0	6.5				71.5	*					
2-35	Yield	R1-2	25+09.00	L	GROUND MOUNT	3.0	2.6	7.8				15.1	1				
2-36	Roundabout Circulation	R6-5	24+43.00	L	GROUND MOUNT	2.5	2.5	6.3									
2-37	Yield	R1-2	25+50.00	L	GROUND MOUNT	3.0	2.6	7.8				14.6					
2-38	Destination	D1-1E	24+39.00	L	GROUND MOUNT	4.5	3.0			13.5		26.0	2				
3-1	Circular Intersection	W2-6	29+90.00	L	GROUND MOUNT	3.0	3.0	9.0				18.2					
3-2	Advisory Speed	W13-1	29+90.00	L	GROUND MOUNT	2.0	2.0	4.0									
3-3	Pedestrian	W11-2	18+40.00	R	GROUND MOUNT	3	3	9.0				17.2					
3-4	Arrow	W16-7P	18+40.00	R	GROUND MOUNT	2	1	2.0									
3-5	Pedestrian	W11-2	18+40.00	L	GROUND MOUNT	3	3	9.0				17.2					
3-6	Arrow	W16-7P	18+40.00	L	GROUND MOUNT	2	1	2.0									
4-1	Destination	D1-5	104+25.00	L	GROUND MOUNT	7.5	6.0				45.0	*					
4-2	Yield Ahead	W3-2	104+60.00	L	GROUND MOUNT	3.0	3.0	9.0				16.2					
4-3	Merge	W4-2	106+00.00	L	GROUND MOUNT	3.0	3.0	9.0				16.2					
4-4	Speed Limit	R2-1	106+90.00	R	GROUND MOUNT	2.0	2.5	5.0				14.5					
4-5	Circular Intersection	W2-6	107+00.00	L	GROUND MOUNT	3.0	3.0	9.0				18.2					
4-6	Advisory Speed	W13-1	107+00.00	L	GROUND MOUNT	2.0	2.0	4.0									
4-7	Right Lane Ends	W9-1	107+70.00	L	GROUND MOUNT	3.0	3.0	9.0				17.2					
4-8	200 FT	W16-2A	107+70.00	L	GROUND MOUNT	2.0	1.0	2.0									
TOTAL			TOTAL										329.00	51.00	253.00	688.00	13.00

* SEE STEEL SIGN SUPPORT SCHEDULE

FILE NAME = \\strand.com\projects\101\1500-1599\1595\000\Microsoft\CAD\Drawings\112345-shr-sign-schedule.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = BillP
MODEL NAME = Default
PLOT SCALE = 2.0000' / 1" / in.
PLOT DATE = 12/15/2017

DESIGNED - WRP
DRAWN - AJJ
CHECKED - MAG
DATE - 11/29/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN SCHEDULES

SCALE: N/A SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	75
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	

STEEL SIGN SUPPORT SCHEDULE

SIGN #	DESCRIPTION	DESIGNATION	PROPOSED SIZE		STEEL SIGN SUPPORT								CONCRETE FOUNDATIONS				REINFORCEMENT BARS			
			WIDTH (FT)	HEIGHT (FT)	CLEAR HEIGHT (FT)	P1 (LF)	P2 (LF)	POST TYPE	LBS/FT	# OF POSTS	STUB (FT)	STUB TOTAL	STEEL SIGN SUPPORT - BREAKAWAY (POUNDS)	DIA.	DEPTH	CU YD	CU YD TOTAL	REINF.	REINF. POUND	
1-12	Destination	D1-5	10.5	6.5	7	13.5	13.5	W6X15	15	2	2.5	5	480	2	6	0.7	1.4	78	156	
2-16	Destination	D1-5	10.5	6.5	7	13.5	13.5	W6X15	15	2	2.5	5	480	2	6	0.7	1.4	78	156	
2-34	Destination	D1-5	11	6.5	7	13.5	13.5	W6X15	15	2	2.5	5	480	2	6	0.7	1.4	78	156	
4-1	Destination	D1-5	7.5	6	7	13	13	W6X15	15	2	2.5	5	465	2	6	0.7	1.4	78	156	
													1905					5.6		624

FILE NAME = \\strand.com\projects\101\1500-159\155\004\Micro\CA010.Sheets\1112345-sht-sign-schedule.dgn



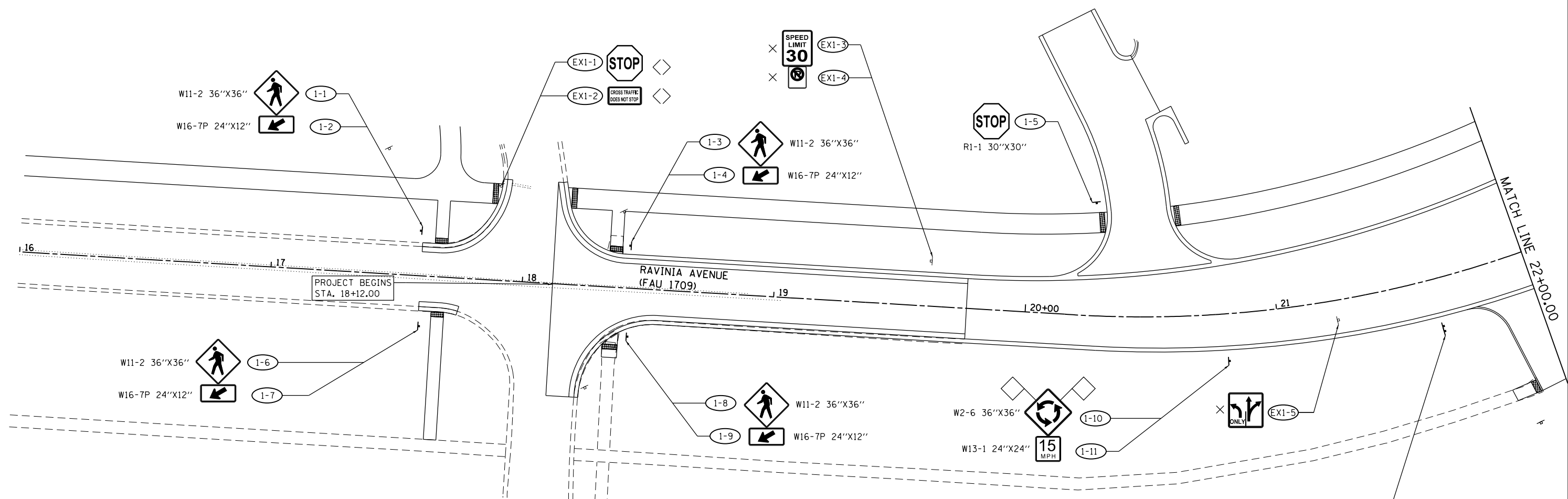
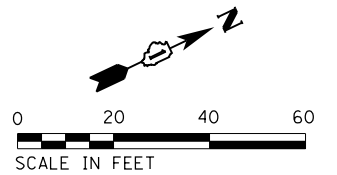
USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN SCHEDULES

SCALE: N/A SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	76
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



LEGEND	
	REMOVE SIGN PANEL
	REMOVE SIGN PANEL ASSEMBLY
	REMOVE AND RELOCATE SIGN PANEL
	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY
	PROPOSED SIGN MOUNTED ON POSTS
	DENOTES SIGN NUMBER
	DENOTES EXISTING SIGN NUMBER
	SIGN FLAGS (TEMPORARY)

FILE NAME = SA\JUL15200--1599\1555\004\Microes\CAD\Drawings\112345-drt-sign-1.dgn



USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

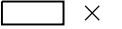







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

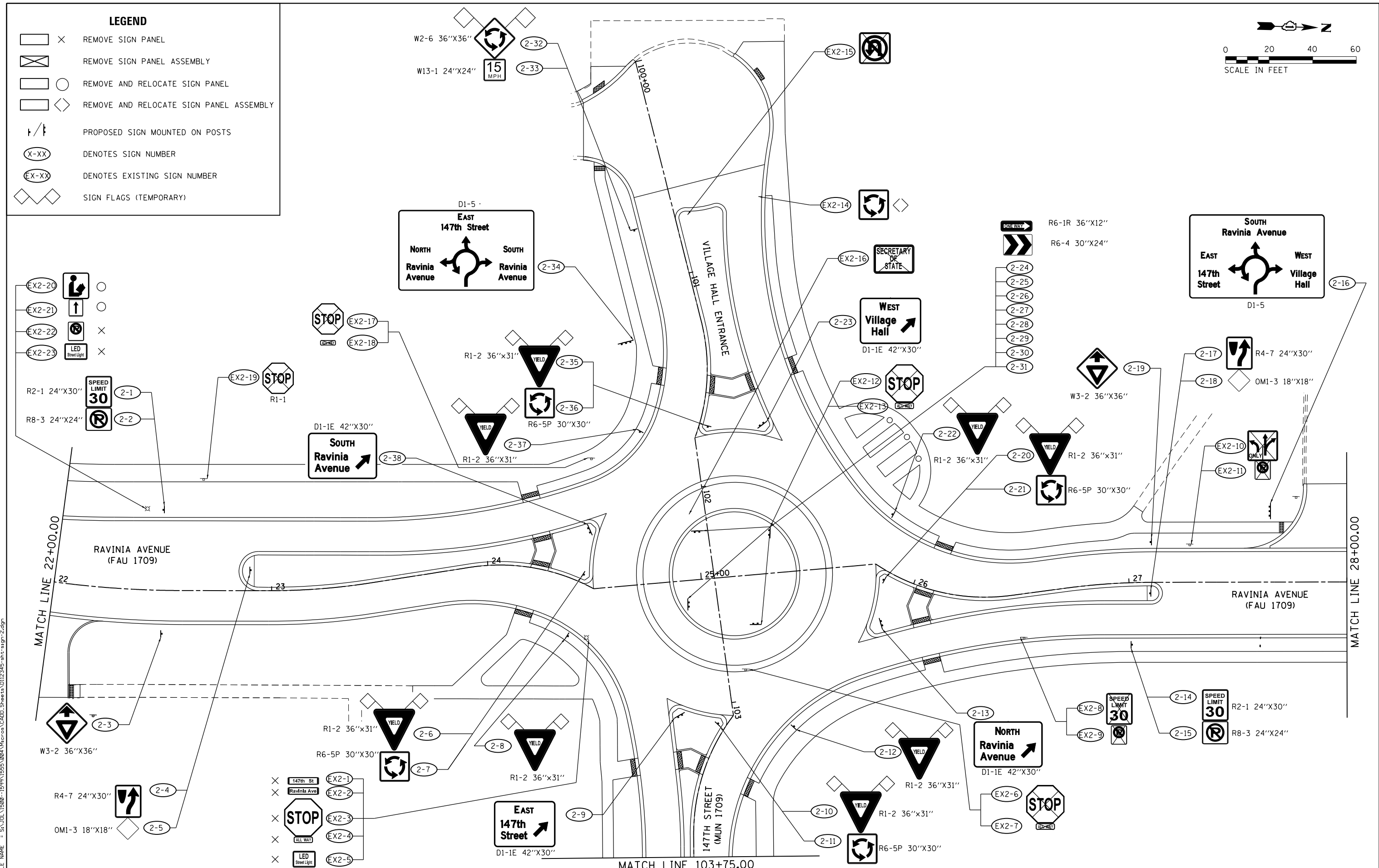
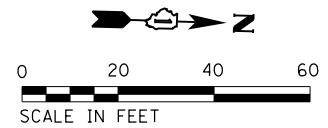
**RAVINIA AVENUE
SIGNING PLAN**

SCALE: 20 SHEET 4 OF 9 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	77
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

LEGEND

-  REMOVE SIGN PANEL
-  REMOVE SIGN PANEL ASSEMBLY
-  REMOVE AND RELOCATE SIGN PANEL
-  REMOVE AND RELOCATE SIGN PANEL ASSEMBLY
-  PROPOSED SIGN MOUNTED ON POSTS
-  DENOTES SIGN NUMBER
-  DENOTES EXISTING SIGN NUMBER
-  SIGN FLAGS (TEMPORARY)



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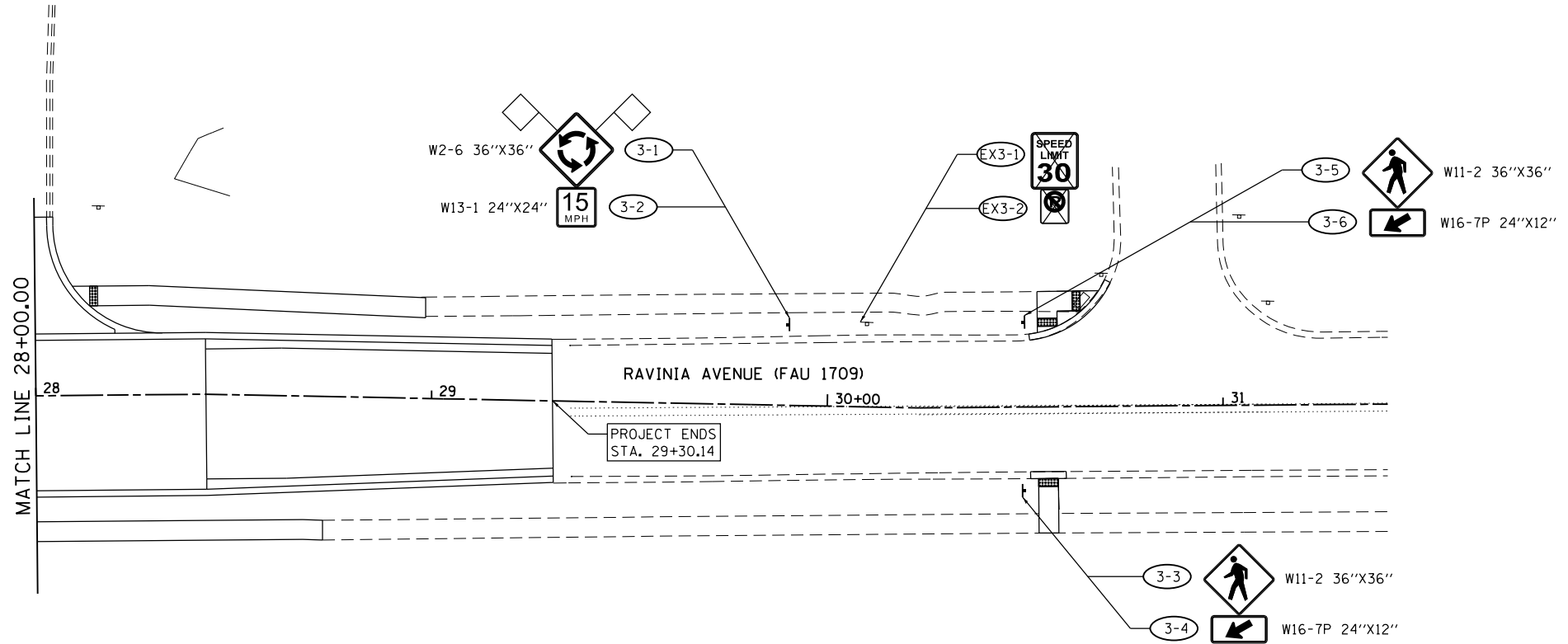
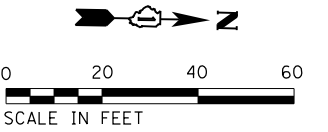
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
SIGNING PLAN**

SCALE: 20 SHEET 5 OF 9 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	78
				CONTRACT NO. 61E48
ILLINOIS FED. AID PROJECT				



FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\0112345-shr-sign-3.dgn

LEGEND

	×	REMOVE SIGN PANEL
		REMOVE SIGN PANEL ASSEMBLY
	○	REMOVE AND RELOCATE SIGN PANEL
	◇	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY
		PROPOSED SIGN MOUNTED ON POSTS
		DENOTES SIGN NUMBER
		DENOTES EXISTING SIGN NUMBER
		SIGN FLAGS (TEMPORARY)



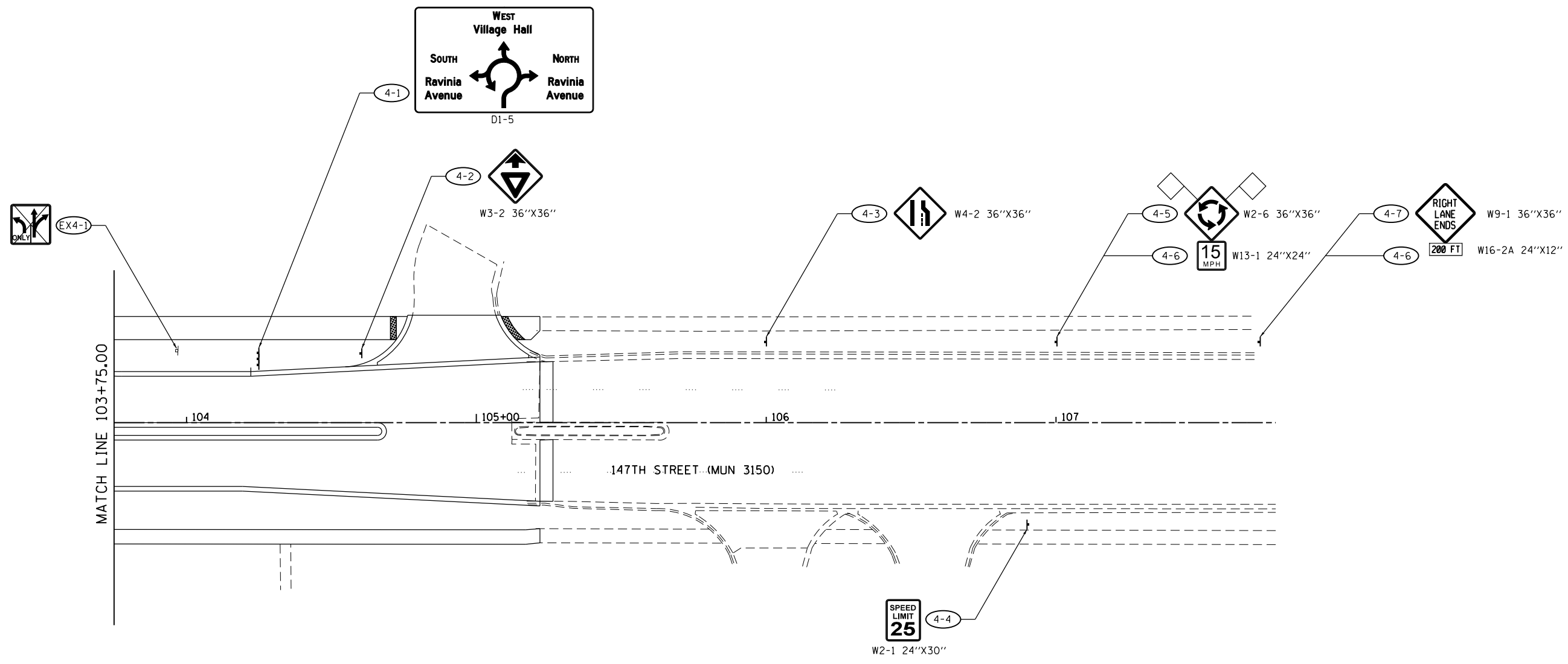
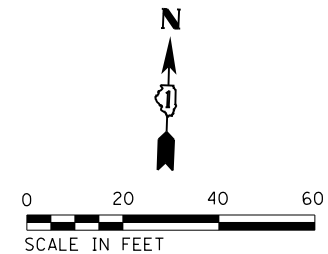
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MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
SIGNING PLAN**

SCALE: 20 SHEET 6 OF 9 SHEETS STA. 28+00 TO STA. 31+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	79
CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



FILE NAME = SA\JUL1520--1595\1555\004\Micro\CA00_Sheets\0112345-1st-sign-4.dgn

LEGEND	
	REMOVE SIGN PANEL
	REMOVE SIGN PANEL ASSEMBLY
	REMOVE AND RELOCATE SIGN PANEL
	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY
	PROPOSED SIGN MOUNTED ON POSTS
	DENOTES SIGN NUMBER
	DENOTES EXISTING SIGN NUMBER
	SIGN FLAGS (TEMPORARY)

SA
STRAND
ASSOCIATES*

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET
SIGNING PLAN**

SCALE: 20 SHEET 7 OF 9 SHEETS STA. 103+75 TO STA. 107+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	80
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

SIGN DETAIL
140

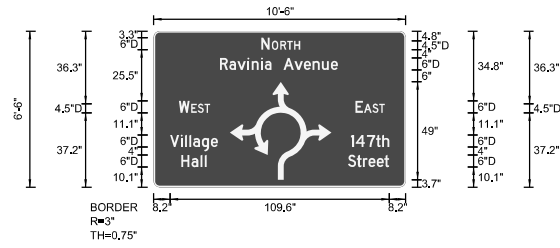


Table with sign specifications: SIGN NUMBER (D-5), WIDTH x HIGHT (10'-6" x 6'-6"), BORDER WIDTH (0.75"), CORNER RADIUS (3"), MOUNTING (Overhead), BACKGROUND (TYPE: Reflective, COLOR: Green), LEGEND/BORDER (TYPE: Reflective, COLOR: White/White).

Table with symbol information: SYMBOL, ROT, X, Y, WID, HT. Example: 881, 3.7, 49, 50.8.

LETTER POSITIONS (X) table with columns for letter characters and their corresponding X, Y, WID, HT values. Includes characters for 'NORTH Ravinia Avenue', 'WEST Village Hall', and 'EAST 147th Street'.

SIGN DETAIL
140

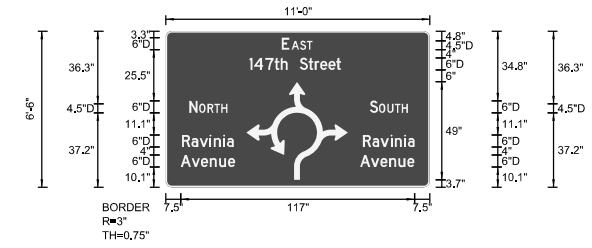


Table with sign specifications: SIGN NUMBER (D-6), WIDTH x HIGHT (11'-0" x 6'-6"), BORDER WIDTH (0.75"), CORNER RADIUS (3"), MOUNTING (Overhead), BACKGROUND (TYPE: Reflective, COLOR: Green), LEGEND/BORDER (TYPE: Reflective, COLOR: White/White).

Table with symbol information: SYMBOL, ROT, X, Y, WID, HT. Example: 40.3, 3.7, 49, 50.8.

LETTER POSITIONS (X) table with columns for letter characters and their corresponding X, Y, WID, HT values. Includes characters for 'EAST 147th Street', 'NORTH Ravinia Avenue', and 'SOUTH Ravinia Avenue'.

SIGN DETAIL
140

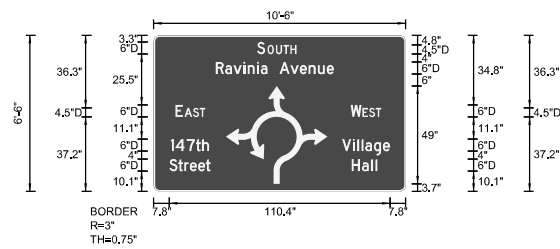


Table with sign specifications: SIGN NUMBER (D-5), WIDTH x HIGHT (10'-6" x 6'-6"), BORDER WIDTH (0.75"), CORNER RADIUS (3"), MOUNTING (Overhead), BACKGROUND (TYPE: Reflective, COLOR: Green), LEGEND/BORDER (TYPE: Reflective, COLOR: White/White).

Table with symbol information: SYMBOL, ROT, X, Y, WID, HT. Example: 98.1, 3.7, 49, 50.8.

LETTER POSITIONS (X) table with columns for letter characters and their corresponding X, Y, WID, HT values. Includes characters for 'SOUTH Ravinia Avenue', 'EAST 147th Street', and 'WEST Village Hall'.

SIGN DETAIL
140

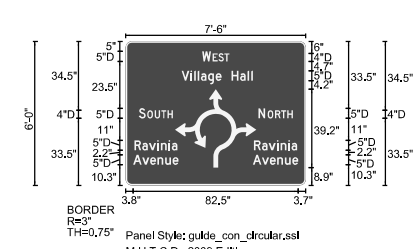


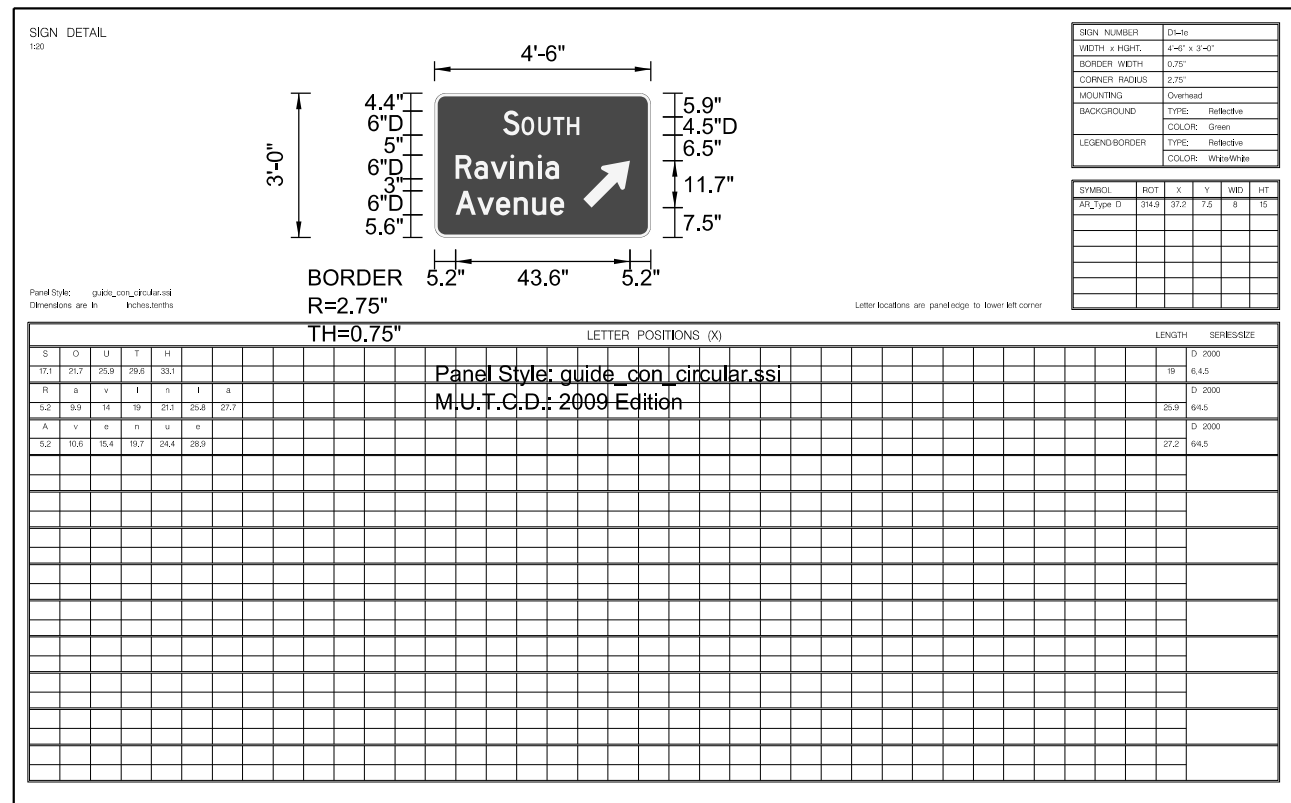
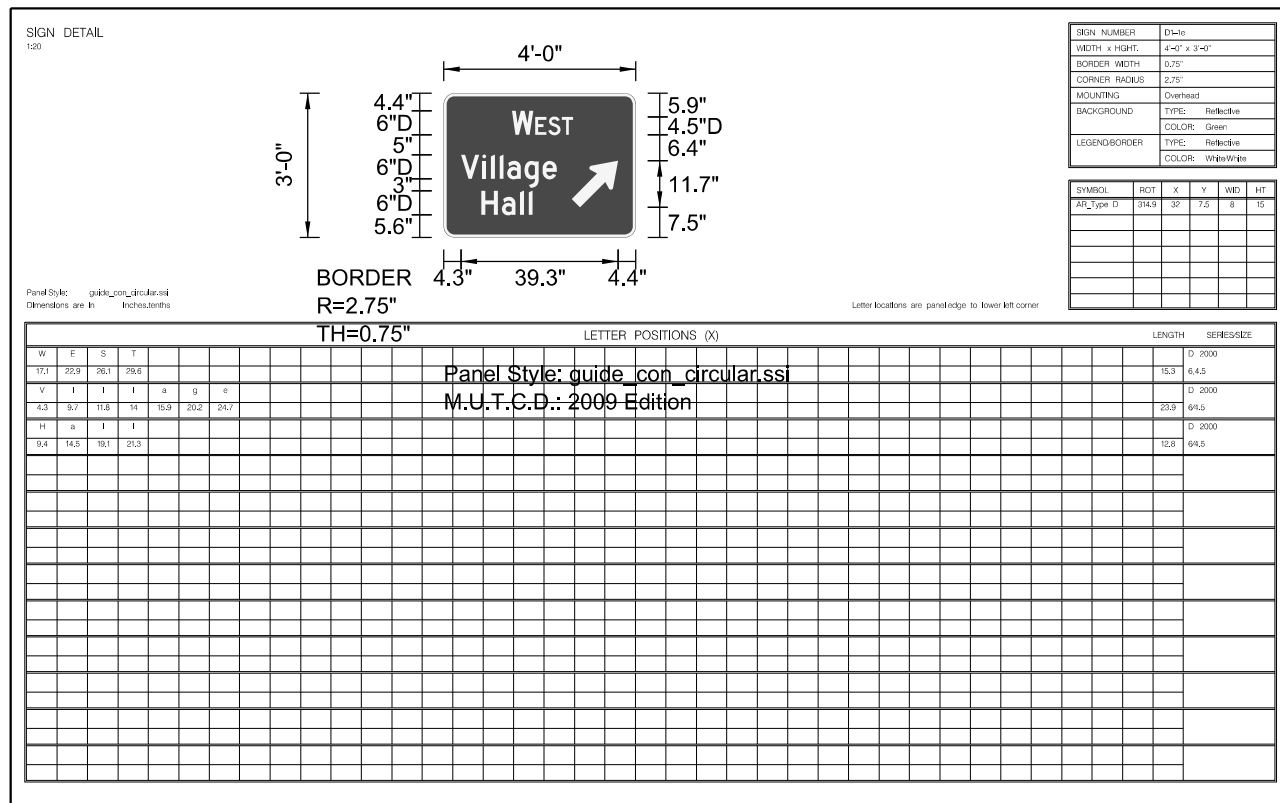
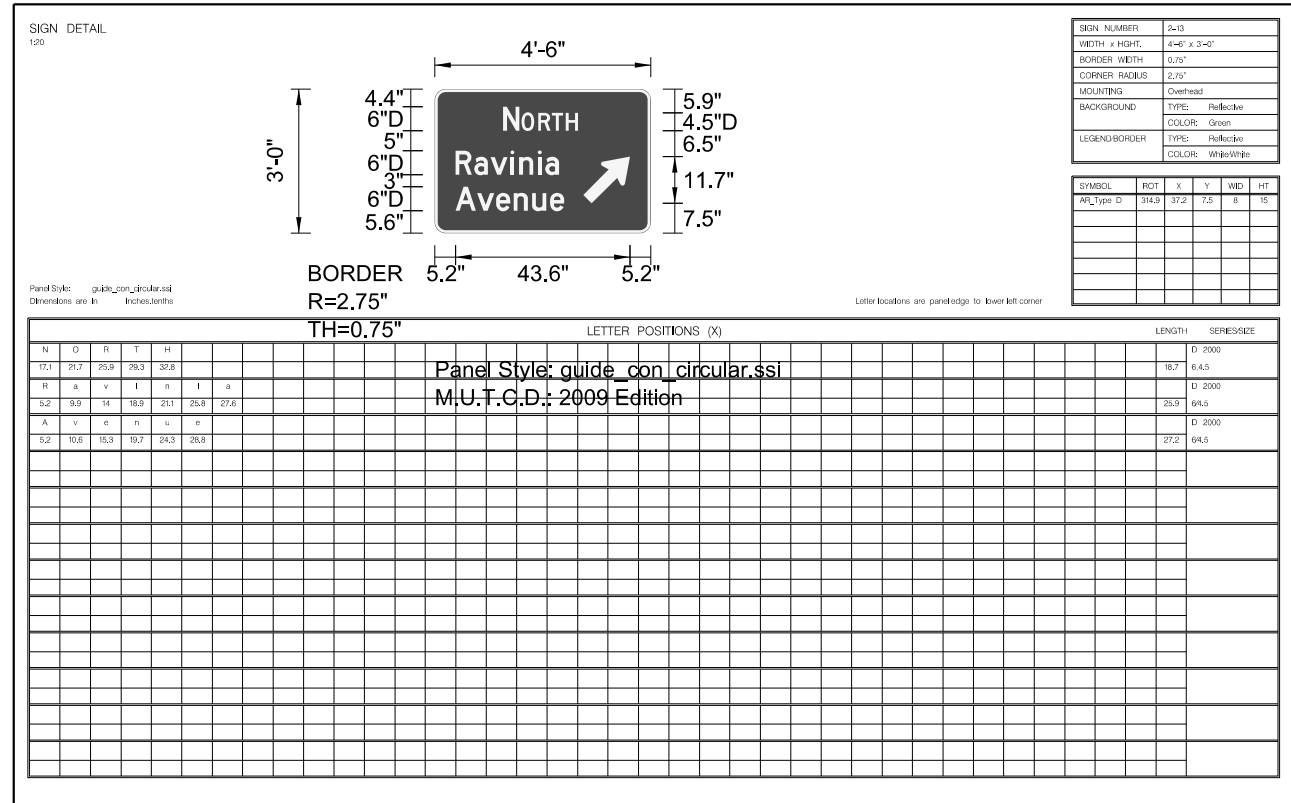
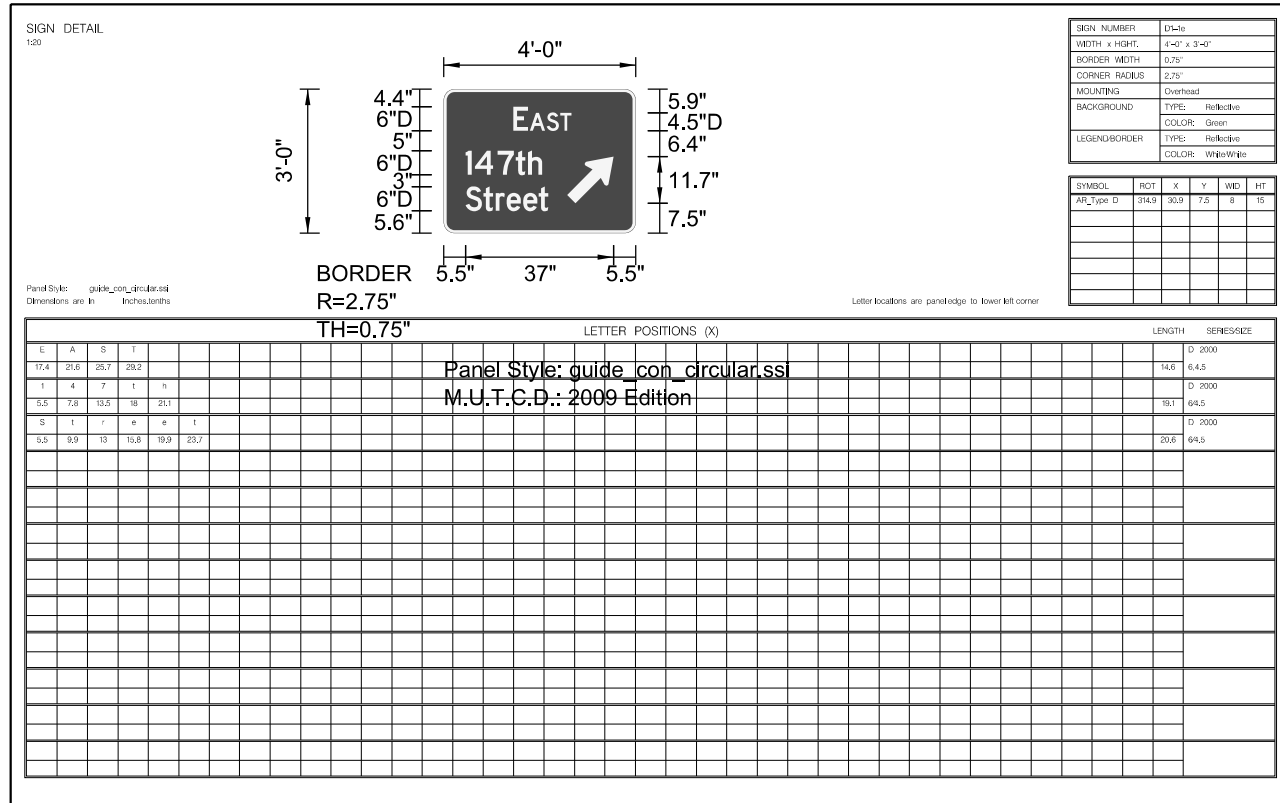
Table with sign specifications: SIGN NUMBER (L-1), WIDTH x HIGHT (7'-6" x 6'-0"), BORDER WIDTH (0.75"), CORNER RADIUS (3"), MOUNTING (Overhead), BACKGROUND (TYPE: Reflective, COLOR: Green), LEGEND/BORDER (TYPE: Reflective, COLOR: White/White).

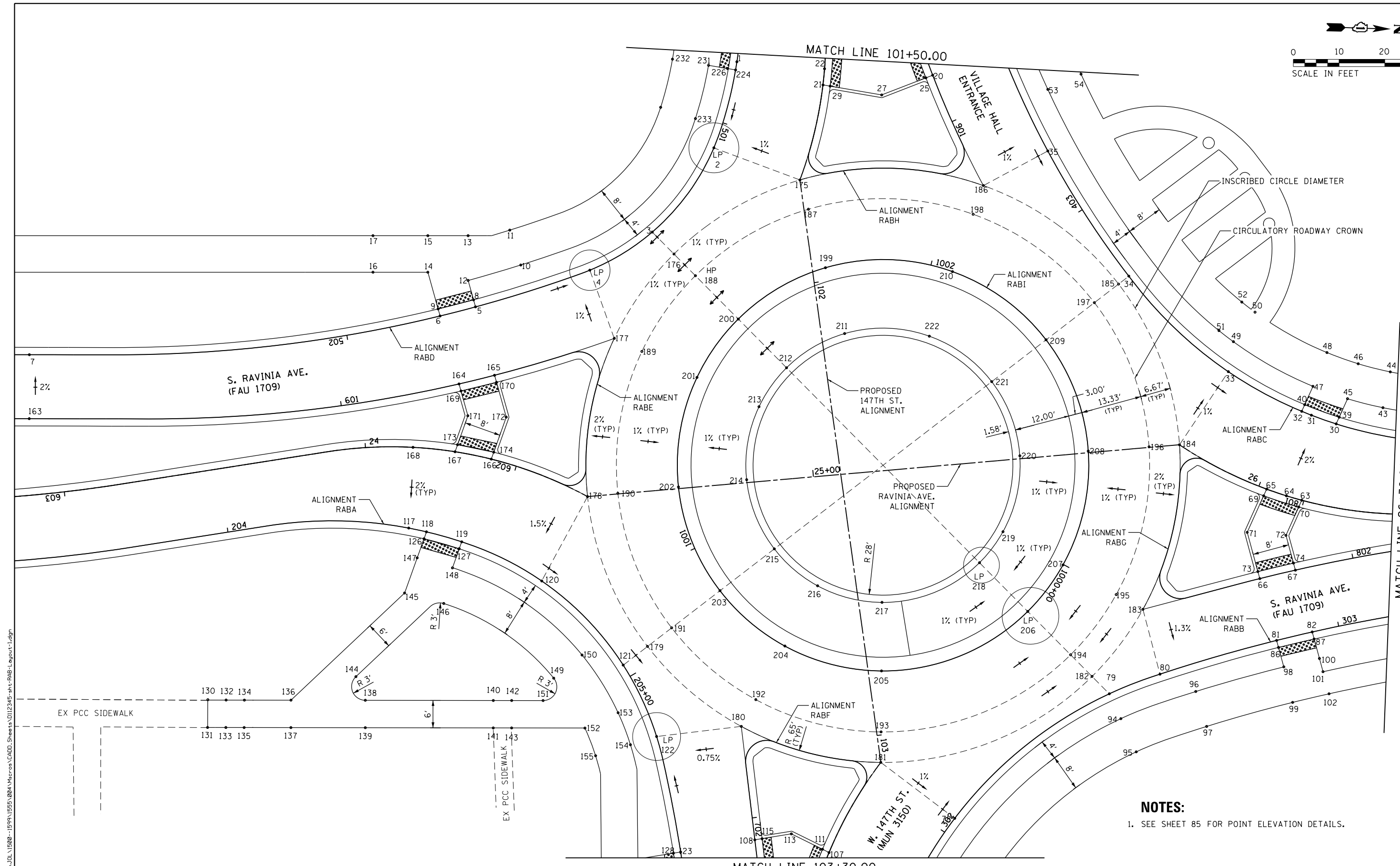
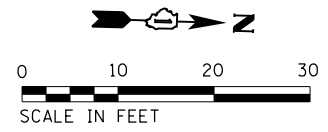
Table with symbol information: SYMBOL, ROT, X, Y, WID, HT. Example: 24.7, 6.9, 39.2, 40.7.

LETTER POSITIONS (X) table with columns for letter characters and their corresponding X, Y, WID, HT values. Includes characters for 'WEST Village Hall', 'SOUTH Ravinia Avenue', and 'NORTH Ravinia Avenue'.

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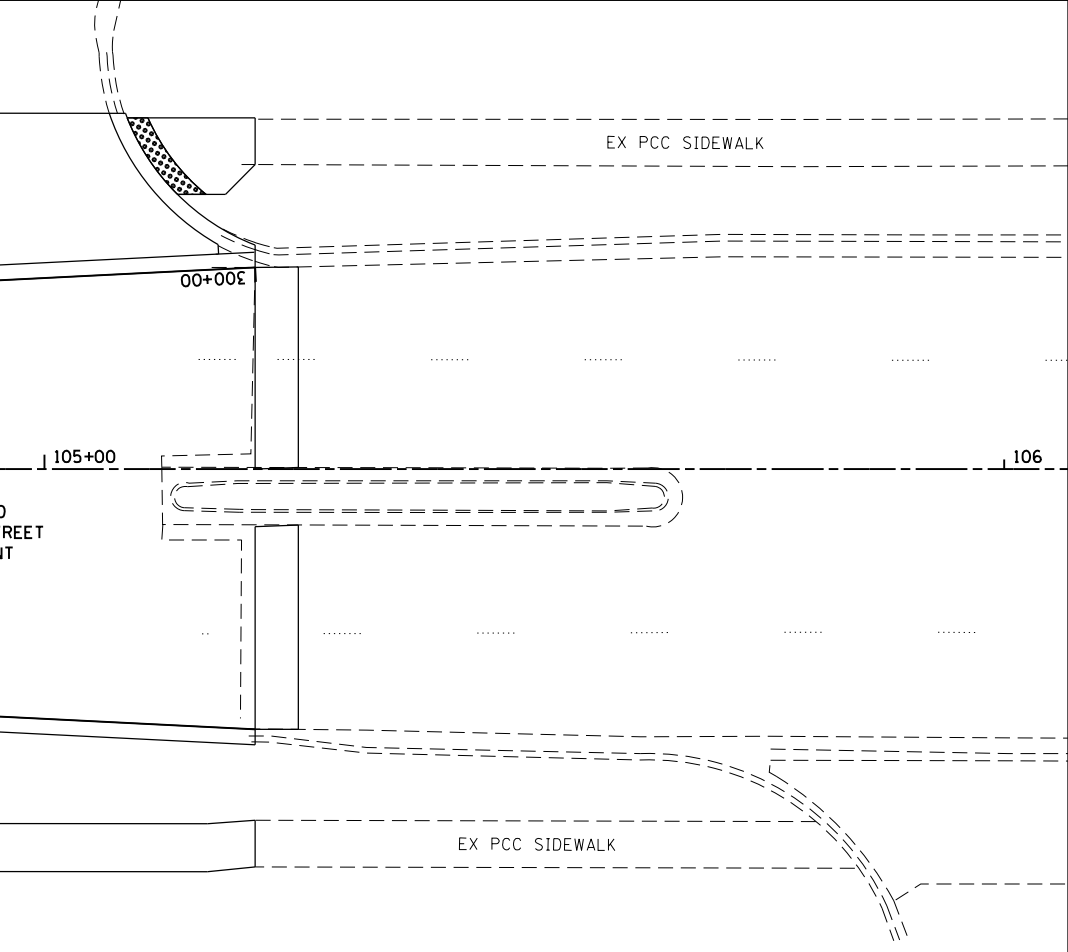
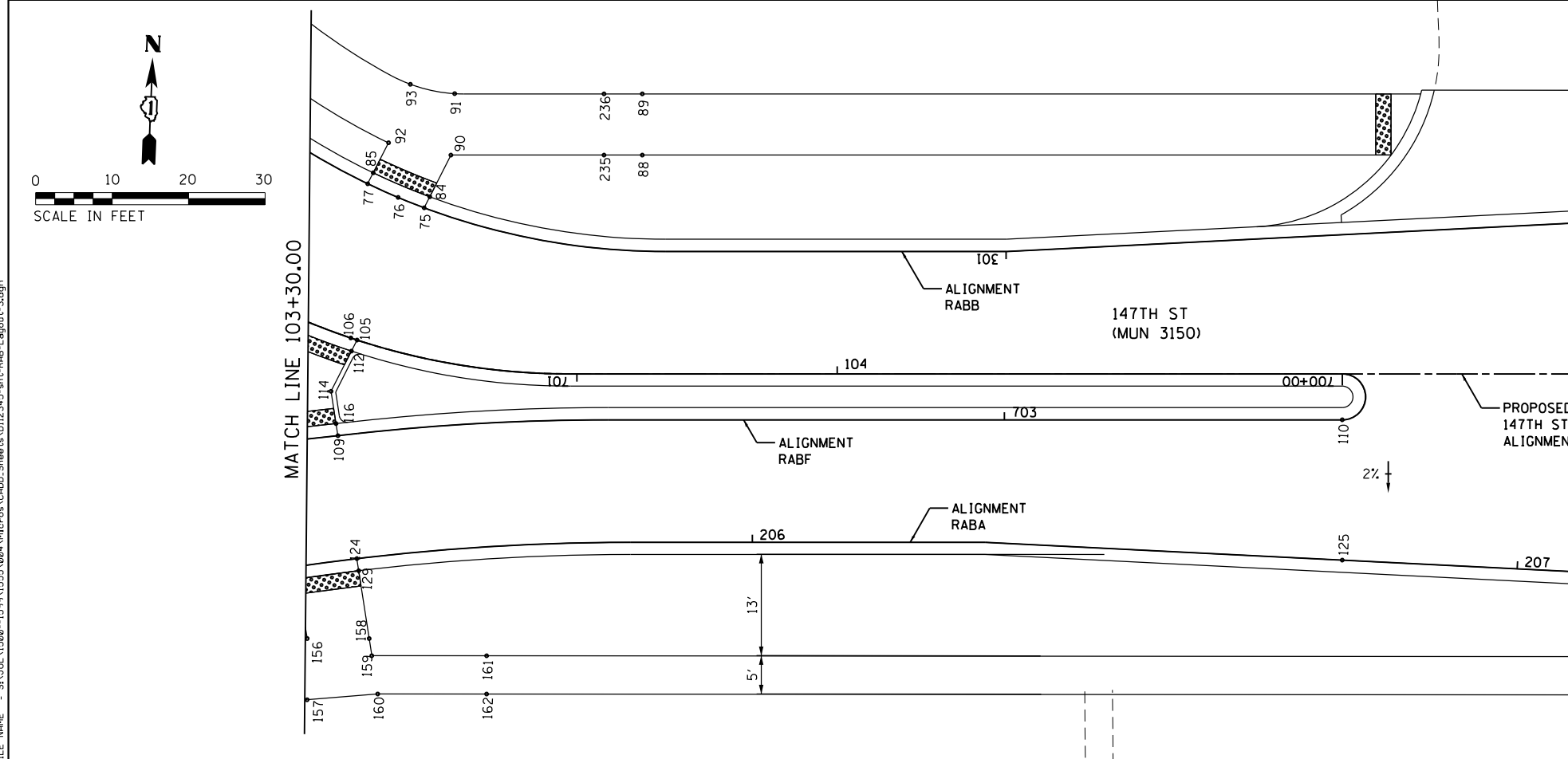
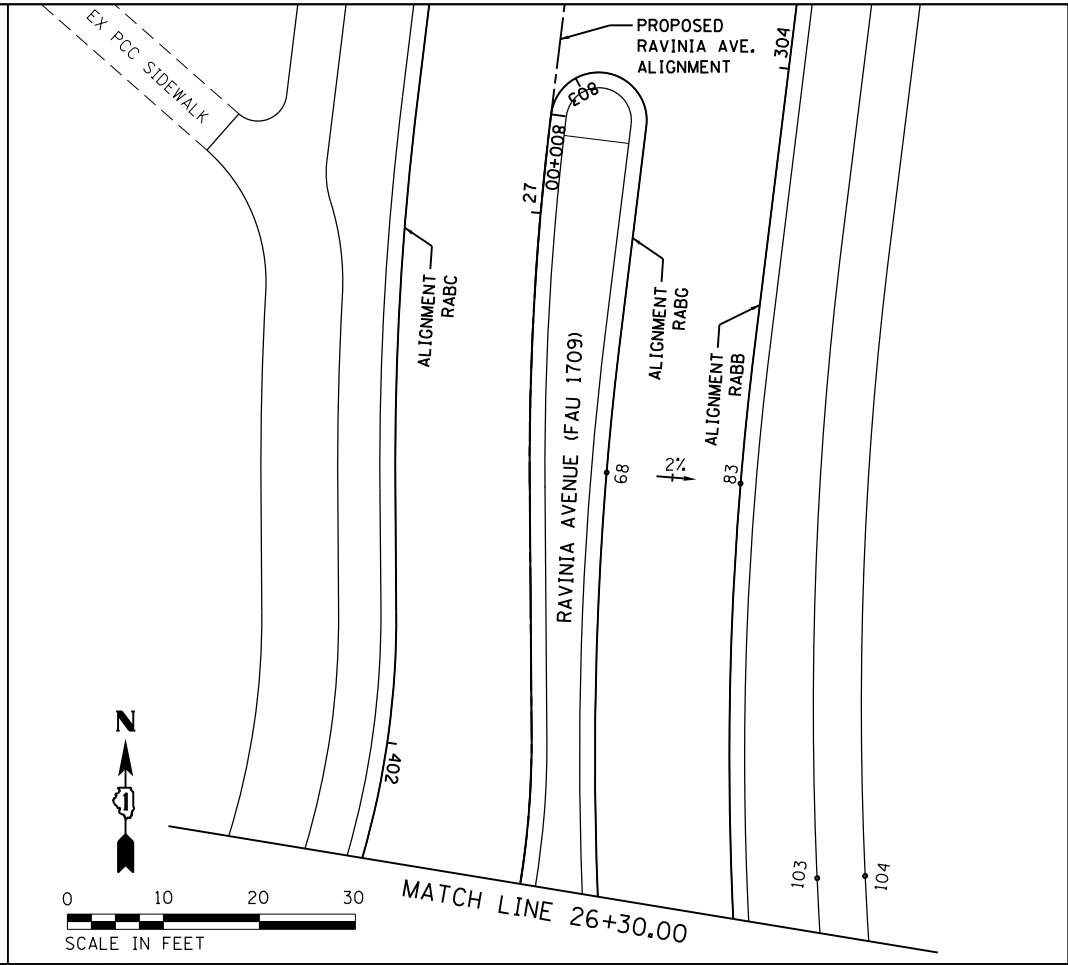
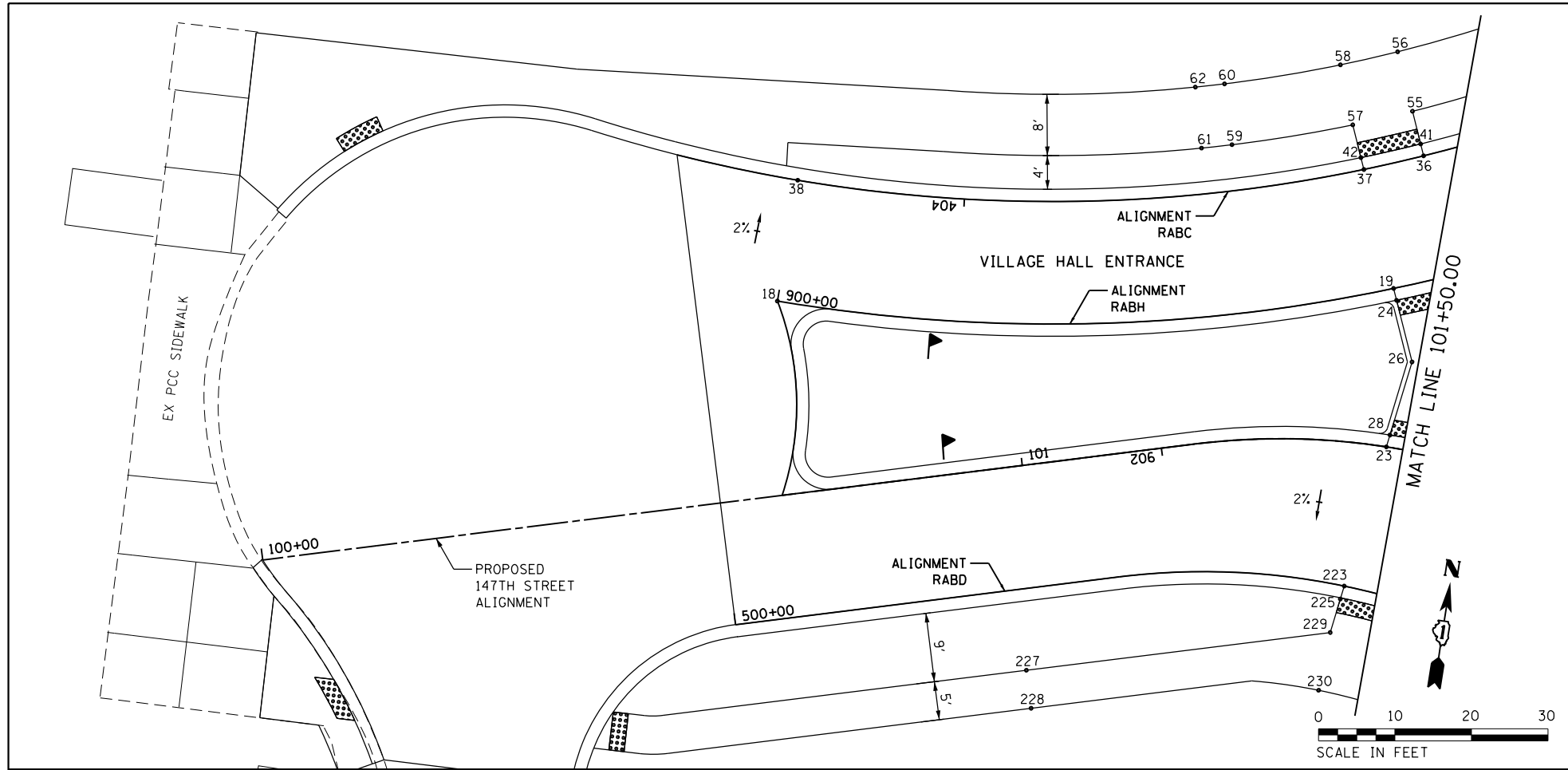




NOTES:
 1. SEE SHEET 85 FOR POINT ELEVATION DETAILS.

FILE NAME = SA\JUL1520--1599\1555\004\Micros\CAD\Drawings\112345-sh-rab-Layout-1.dgn

1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = B11P MODEL NAME = Default PLOT SCALE = 20.0000' / in. PLOT DATE = 12/15/2017	DESIGNED - WRP DRAWN - AJJ CHECKED - MAG DATE - 11/29/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROUNDABOUT LAYOUT PLAN			F.A.U. R.T.E. = 1709 SECTION = 12-00069-00-CH COUNTY = COOK TOTAL SHEETS = 131 SHEET NO. = 83
	SCALE: 1"=10' SHEET 1 OF 3 SHEETS STA. 101+50 TO STA. 103+30				CONTRACT NO. 61E48 ILLINOIS FED. AID PROJECT			



FILE NAME = S:\JUL\1520--1599\1555\004\Micro\CA00_Sheets\112345-ent-RAB-Layout-3.dgn



USER NAME = B11P
 MODEL NAME = Default
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 12/15/2017

DESIGNED - WRP
 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUNDABOUT LAYOUT PLAN

SCALE: 1:10 SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	84
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

POINT	CHAIN	NORTHING	EASTING	ELEV.	STATION	OFFSET
1	RABD	1805624.2403	1114654.1988	710.10	500+86.27	0.00
2	RABD	1805619.7534	1114673.1680	709.63	501+05.81	0.00
3	RABD	1805606.8129	1114691.9808	710.01	501+28.84	0.00
4	RABD	1805593.4102	1114700.7095	709.76	501+44.91	0.00
5	RABD	1805568.6407	1114709.4546	709.88	501+71.18	0.00
6	RABD	1805560.9527	1114711.6727	709.93	501+79.19	0.00
7	RABD	1805471.4016	1114722.7329	710.40	502+69.70	0.00
8	RABD	1805568.1625	1114707.9265	709.88	501+71.19	1.60
9	RABD	1805560.4783	1114710.1437	709.93	501+79.24	1.60
10	RABD	1805578.2732	1114700.0123	710.34	501+58.98	6.00
11	RABD	1805575.6438	1114692.4567	710.46	501+58.98	14.00
12	RABD	1805566.8625	1114703.7240	710.06	501+71.22	6.00
13	RABD	1805566.5786	1114693.9282	710.21	501+68.52	15.45
14	RABD	1805558.0071	1114702.1800	710.16	501+79.53	9.93
15	RABD	1805557.7753	1114694.1834	710.28	501+77.53	17.70
16	RABD	1805546.0121	1114702.5277	710.66	501+91.70	12.52
17	RABD	1805545.7804	1114694.5310	710.78	501+90.02	20.36
18	RABH	1805650.2432	1114569.1509	713.74	900+00.00	0.00
19	RABH	1805664.1683	1114648.4705	710.53	900+81.01	0.00
20	RABH	1805667.1349	1114655.9016	710.28	900+89.01	0.00
21	RABH	1805643.2102	1114658.7167	710.39	901+62.45	0.00
22	RABH	1805643.4600	1114655.1728	710.62	901+66.01	0.00
23	RABH	1805643.5753	1114650.6888	710.63	901+70.49	0.00
24	RABH	1805662.6926	1114649.0915	710.53	900+81.07	1.60
25	RABH	1805665.6602	1114656.5222	710.28	900+89.01	1.60
26	RABH	1805655.0445	1114652.3102	710.66	900+81.36	9.89
27	RABH	1805656.1117	1114660.5406	710.60	900+89.01	11.96
28	RABH	1805645.1748	1114650.9149	710.62	901+70.27	1.60
29	RABH	1805644.7964	1114658.9409	710.39	901+62.37	1.60
30	RABC	1805757.5695	1114729.5891	707.31	402+25.64	0.00
31	RABC	1805752.0929	1114727.8466	707.52	402+31.39	0.00
32	RABC	1805749.9566	1114727.0604	707.68	402+33.66	0.00
33	RABC	1805733.6715	1114718.8543	708.48	402+51.93	0.00
34	RABC	1805711.2966	1114698.5988	709.01	402+82.25	0.00
35	RABC	1805692.8002	1114671.7384	709.26	403+14.90	0.00
36	RABC	1805681.8822	1114649.6953	710.07	403+39.51	0.00
37	RABC	1805678.9265	1114642.2595	710.35	403+47.52	0.00
38	RABC	1805666.2417	1114569.3705	713.42	404+21.93	0.00
39	RABC	1805758.1888	1114728.1014	707.31	402+25.45	1.60
40	RABC	1805750.5718	1114725.5826	707.68	402+33.62	1.60
41	RABC	1805683.3569	1114649.0746	710.07	403+39.51	1.60
42	RABC	1805680.4024	1114641.6384	710.35	403+47.58	1.60
43	RABC	1805767.6971	1114725.7532	707.52	402+16.30	6.00
44	RABC	1805769.0693	1114717.8718	707.64	402+16.30	14.00
45	RABC	1805759.8929	1114724.0081	707.62	402+24.87	6.00
46	RABC	1805762.0084	1114716.2928	707.74	402+24.87	14.00
47	RABC	1805752.2637	1114721.5187	707.69	402+33.48	6.00
48	RABC	1805755.1058	1114714.0405	707.81	402+33.48	14.00
49	RABC	1805734.5863	1114712.2653	709.10	402+54.90	6.00
50	RABC	1805739.1120	1114705.6684	709.22	402+54.90	14.00
51	RABC	1805731.3430	1114709.9248	709.13	402+59.19	6.00
52	RABC	1805736.1775	1114703.5509	709.25	402+59.19	14.00
53	RABC	1805692.4061	1114658.2774	710.23	403+27.14	6.00
54	RABC	1805699.5738	1114654.7243	710.35	403+27.14	14.00
55	RABC	1805687.4124	1114647.3679	710.38	403+39.51	6.00
56	RABC	1805694.7860	1114644.2647	710.50	403+39.51	14.00
57	RABC	1805684.4613	1114639.9302	710.45	403+47.76	6.00
58	RABC	1805691.9566	1114637.1338	710.57	403+47.76	14.00
59	RABC	1805679.4925	1114624.7261	711.60	403+64.26	6.00
60	RABC	1805687.1928	1114622.5566	711.72	403+64.26	14.00
61	RABC	1805678.4476	1114620.8651	711.63	403+68.38	6.00
62	RABC	1805686.1909	1114618.8548	711.75	403+68.38	14.00
63	RABG	1805750.5296	1114746.4995	707.78	801+00.44	0.00
64	RABG	1805747.1339	1114745.6231	707.89	801+03.95	0.00
65	RABG	1805742.7837	1114744.2902	708.03	801+08.50	0.00
66	RABG	1805741.8525	1114763.9027	707.68	801+79.15	0.00
67	RABG	1805749.5820	1114761.8244	707.49	801+87.15	0.00
68	RABG	1805814.1895	1114751.2893	705.95	802+52.70	0.00
69	RABG	1805742.1672	1114745.7711	708.03	801+08.61	-1.60
70	RABG	1805749.9067	1114747.9957	707.78	801+00.70	-1.60

POINT	CHAIN	NORTHING	EASTING	ELEV.	STATION	OFFSET
71	RABG	1805738.8029	1114753.8524	707.86	801+09.17	-10.33
72	RABG	1805747.2918	1114754.2767	707.74	801+86.82	-7.88
73	RABG	1805741.3878	1114762.3713	707.68	801+79.12	-1.60
74	RABG	1805749.1170	1114760.2919	707.49	801+87.08	-1.60
75	RABB	1805664.4698	1114842.2602	708.67	301+76.72	0.00
76	RABB	1805665.6926	1114838.8044	708.59	301+80.39	0.00
77	RABB	1805667.3265	1114834.7685	708.54	301+84.74	0.00
78	RABB	1805676.6636	1114818.2499	708.41	302+03.75	0.00
79	RABB	1805709.6712	1114790.0447	708.06	302+47.60	0.00
80	RABB	1805720.6373	1114785.4225	708.00	302+59.51	0.00
81	RABB	1805745.9184	1114777.3026	707.40	302+86.07	0.00
82	RABB	1805753.6509	1114775.2340	707.20	302+94.07	0.00
83	RABB	1805815.1911	1114765.2535	705.67	303+56.50	0.00
84	RABB	1805665.9326	1114842.9330	708.67	301+76.54	1.60
85	RABB	1805668.7805	1114835.4372	708.54	301+84.70	1.60
86	RABB	1805746.3851	1114778.8341	707.40	302+86.10	1.60
87	RABB	1805754.1160	1114776.7667	707.20	302+94.14	1.60
88	RABB	1805672.4479	1114870.4691	710.33	301+48.04	12.54
89	RABB	1805680.4420	1114870.1616	710.45	301+48.45	20.53
90	RABB	1805671.4869	1114785.4869	708.90	301+48.78	7.67
91	RABB	1805679.5355	1114845.6613	709.02	301+78.54	15.36
92	RABB	1805672.7790	1114837.2763	708.84	301+84.60	6.00
93	RABB	1805680.5358	1114839.8326	708.96	301+85.46	14.13
94	RABB	1805712.3537	1114795.4116	708.55	302+47.60	6.00
95	RABB	1805715.9303	1114802.5676	708.67	302+47.60	14.00
96	RABB	1805728.5660	1114788.9842	708.42	302+65.85	6.00
97	RABB	1805731.1628	1114796.5510	708.54	302+65.85	14.00
98	RABB	1805747.6610	1114778.0455	707.63	302+86.20	6.00
99	RABB	1805749.8138	1114790.7504	707.70	302+86.20	14.00
100	RABB	1805755.3949	1114780.9814	707.51	302+94.34	6.00
101	RABB	1805756.2668	1114783.8551	707.63	302+94.48	9.00
102	RABB	1805757.7202	1114788.6448	707.63	302+94.72	14.00
103	RABB	1805775.7678	1114779.4247	707.53	303+15.01	8.92
104	RABB	1805776.7518	1114784.3269	707.61	303+15.05	13.92
105	RABF	1805646.8588	1114834.1603	708.99	701+29.18	0.00
106	RABF	1805647.0968	1114833.3365	708.98	701+30.04	0.00
107	RABF	1805649.3996	1114826.5233	708.88	701+37.23	0.00
108	RABF	1805633.0945	1114824.2195	709.07	702+04.84	0.00
109	RABF	1805634.2732	1114832.1399	709.14	702+12.84	0.00
110	RABF	1805641.3888	1114783.1814	712.12	700+00.00	-6.00
111	RABF	1805647.9430	1114825.8534	708.88	701+37.34	-1.60
112	RABF	1805645.3879	1114833.4838	708.99	701+29.43	-1.60
113	RABF	1805641.0439	1114822.6803	709.10	702+04.48	-8.09
114	RABF	1805640.0386	1114831.0235	709.17	702+12.59	-5.87
115	RABF	1805634.6668	1114823.9151	709.07	702+04.77	-1.60
116	RABF	1805635.8455	1114831.8354	709.14	702+12.77	-1.60
117	RABA	1805555.4419	1114758.2406	709.58	204+39.79	0.00
118	RABA	1805559.3427	1114758.9525	709.54	204+43.76	0.00
119	RABA	1805567.1170	1114760.9138	709.43	204+51.78	0.00
120	RABA	1805584.8628	1114768.9629	709.26	204+71.33	0.00
121	RABA	1805603.2069	1114786.8439	709.11	204+97.12	0.00
122	RABA	1805610.9685	1114802.2471	708.80	205+14.42	0.00
123	RABA	1805616.9511	1114827.3453	708.91	205+40.24	0.00
124	RABA	1805618.3148	1114835.2299	708.98	205+48.24	0.00
125	RABA	1805623.0678	1114963.8839	711.75	206+77.12	0.00
126	RABA	1805558.8456	1114760.4840	709.54	204+43.58	1.60
127	RABA	1805566.6229	1114762.4360	709.43	204+51.74	1.60
128	RABA	1805615.3803	1114827.6495	708.91	205+40.25	1.60
129	RABA	1805616.7431	1114835.5342	708.98	205+48.29	1.60
130	RABA	1805512.6020	1114797.0475	712.81	203+89.96	35.53
131	RABA	1805512.7276	1114803.1128	712.95	203+88.97	41.52
132	RABA	1805516.6020	1114797.0044	712.80	203+93.90	36.22
133	RABA	1805516.7262	1114803.0033	712.89	203+92.92	42.14
134	RABA	1805520.6006	1114796.8949	712.77	203+97.85	36.85
135	RABA	1805520.7247	1114802.8938	712.86	203+96.87	42.77
136	RABA	1805530.7870	1114796.6160	712.07	204+07.91	38.44
137	RABA	1805530.9512	1114802.6138	712.16	204+06.97	44.37
138	RABA	1805547.0475	1114796.1708	711.80	204+35.75	38.73
139	RABA	1805547.2118	1114802.1685	711.89	204+37.42	44.66
140	RABA	1805575.0297	1114795.4046	710.37	204+81.84	27.05

PLANT DATA CHART														
PLANT CODE	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	AVG. MATURE SPREAD	SIZE WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE					FERT. PACK. REOD	MULCH RING DIA.	PLANT QUANTITY
							MIN. BALL OR CONTAINER SIZE		ROOT SPREAD	MIN. HOLE SIZE				
							MIN. CONT. SIZE	MIN. CONT. DEPTH		MIN. HOLE DIA.	MIN. HOLE DEPTH			
DECIDUOUS TREES														
AB	Autumn Blaze Maple	Acer rubrum 'Autumn Blaze'	50'	40'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	5
HB	Hackberry	Celtis occidentalis 'Chicagoland'	55'	40-55'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	3
SB	Honeylocust	Gleditsia tricanthos inermis 'Sunburst'	35'	35'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	4
SWO	Swamp White Oak	Quercus bicolor	55'	60'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	3
B0	Bur Oak	Quercus macrocarpa	75'	75'	3" Cal.	B&B	32"	19"	--	64"	16"	4	48"	4
CS	Crimson Spire Oak	Quercus x bimundorum 'Crimschmidt'	50'	16'	2.5" Cal.	B&B	28"	17"	--	44"	17"	3	48"	12
BC	Common Baldcypress	Taxodium distichum	50-70'	20-30'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	1
RL	Redmond Linden	Tilia Americana 'Redmond'	70'	45'	4" Cal.	B&B	42"	25"	--	66"	25"	5	56"	3
PE	Pioneer Elm	Ulmus parvifolia x U. carpinifolia 'Pioneer'	50'	50'	4" Cal.	B&B	42"	25"	--	66"	25"	5	48"	7
EVERGREEN TREES & SHRUBS														
BM	Broadmoor Juniper	Juniperus sabina 'Broadmoor'	18"	6'	15"	CAN	12"	8"	--	28"	9"	2	Bed	10
BHS	Black Hills Spruce	Picea glauca 'Densata'	35'	10-15'	6' HT	B&B	22"	15"	--	38"	15"	4	Bed	1
PERENNIALS														
OS	October Skies Aster	Aster oblongifolius 'October Skies'	18-24"	18-24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	69
PC	Purple Cone Flower	Echinacea purpurea	24-36"	24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	13
KF	Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	36"-48"	24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	23
AR	Daylily Autumn Red	Hemerocallis 'Autumn Red'	18"	24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	96
RR	Daylily Rosy Returns	Hemerocallis 'Rosy Returns'	18"	18"	12"	#3 Container	--	--	--	12"	8"	--	Bed	73
SO	Stella de Oro Daylily	Hemerocallis 'Stella de Oro'	18"-24"	12"-16"	12"	#3 Container	--	--	--	12"	8"	--	Bed	81
LS	English Lavender	Lavandula angustifolia	18"	18"	12"	#3 Container	--	--	--	12"	8"	--	Bed	6
DL	Denim and Lace	Perovskia atriplicifolia 'Denim n' Lace'	24-30"	36"	18"	#3 Container	--	--	--	12"	8"	--	Bed	32
BES	Black-Eyed-Susan	Rudbeckia hirta	24-36"	24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	35
DF	Dwarf Fountain Grass	Pennisetum alopecuroides 'Hameln'	24-36"	24-36"	12"	#3 Container	--	--	--	12"	8"	--	Bed	96
LB	Little Bluestem	Schizachyrium scoparium	36"	24"	12"	#3 Container	--	--	--	12"	8"	--	Bed	24

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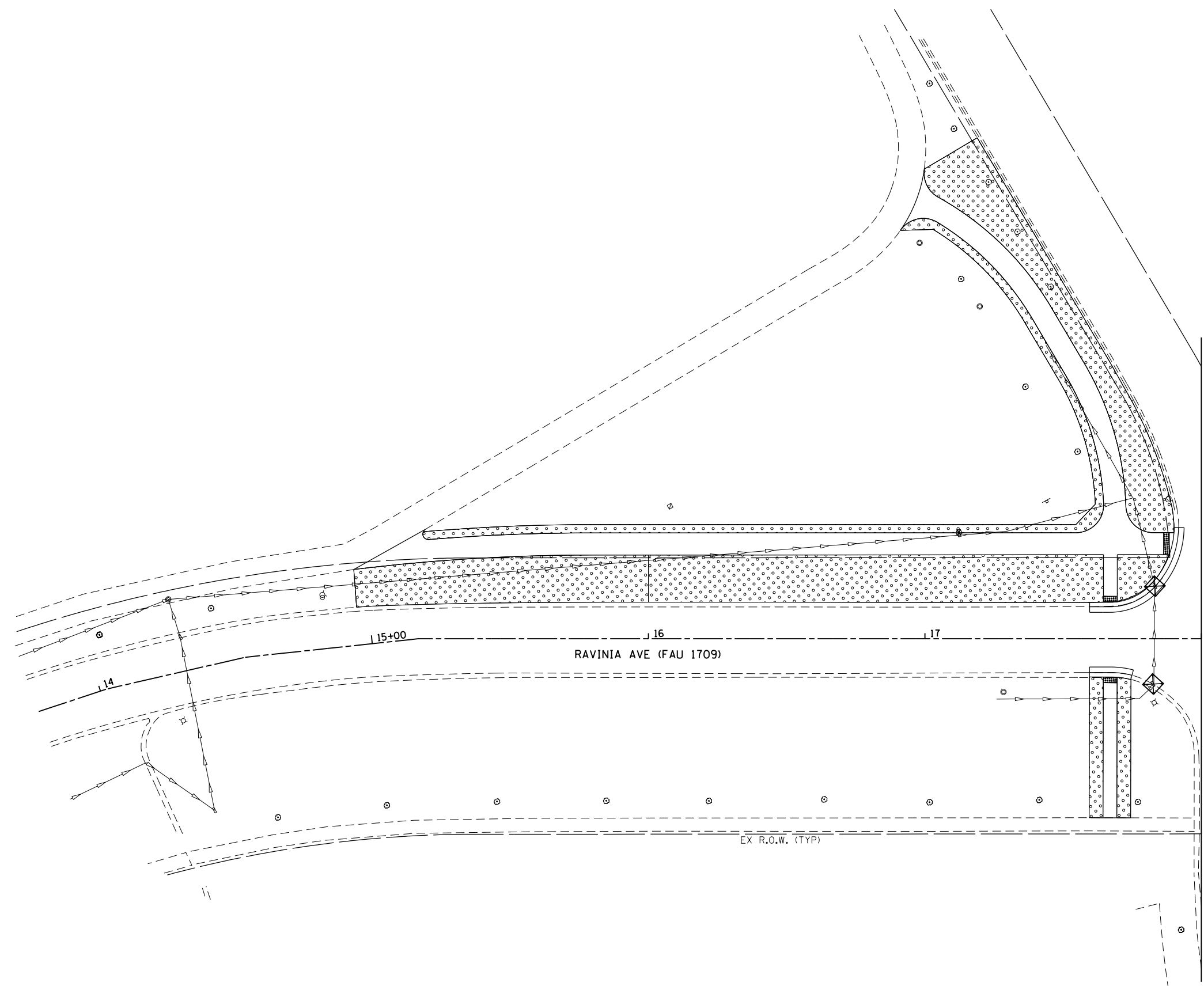
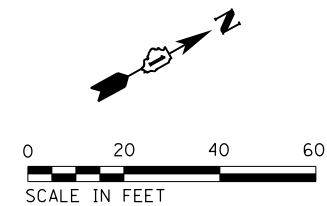
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPE SCHEDULES

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	86
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



LEGEND

- INLET FILTERS OR INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- SODDING, SALT TOLERANT (SPECIAL) TOPSOIL FURNISH AND PLACE, 4" NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
- SEEDING, CLASS 2A EROSION CONTROL BLANKET TOPSOIL FURNISH AND PLACE, 4" NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN
- PROPOSED PERENNIAL
- TREE OR SHRUB REMOVAL (SEE REMOVAL SHEETS)

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-sh-1-landscp-1.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -










**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

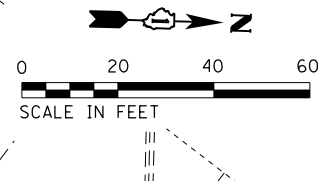
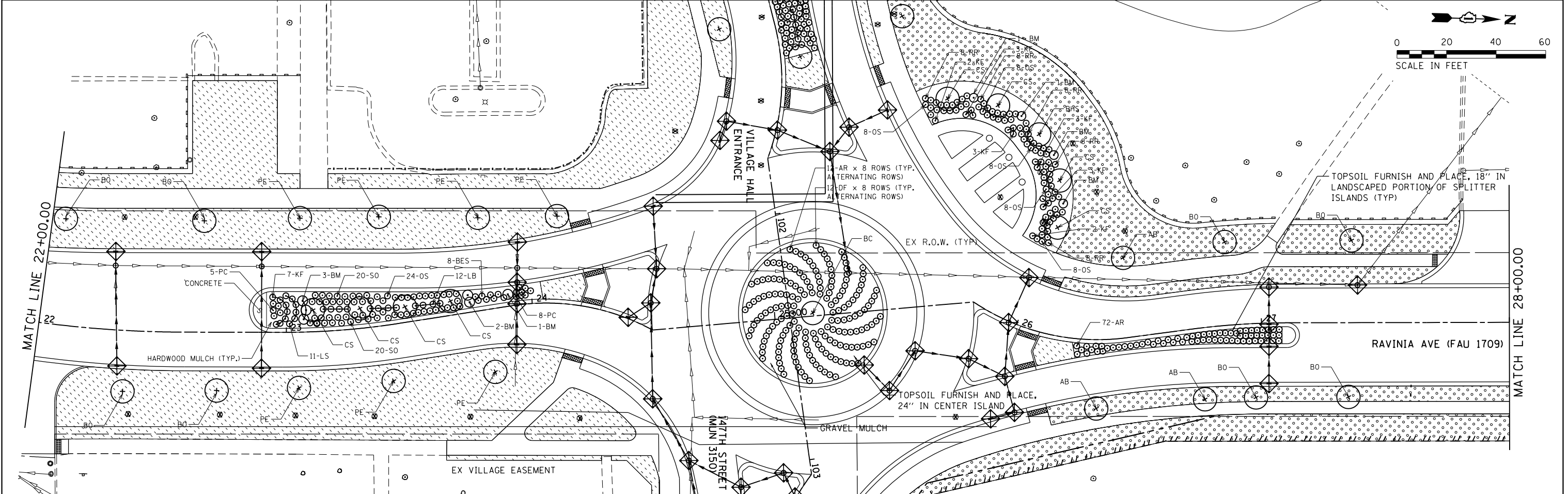
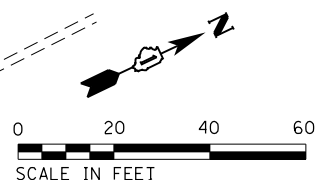
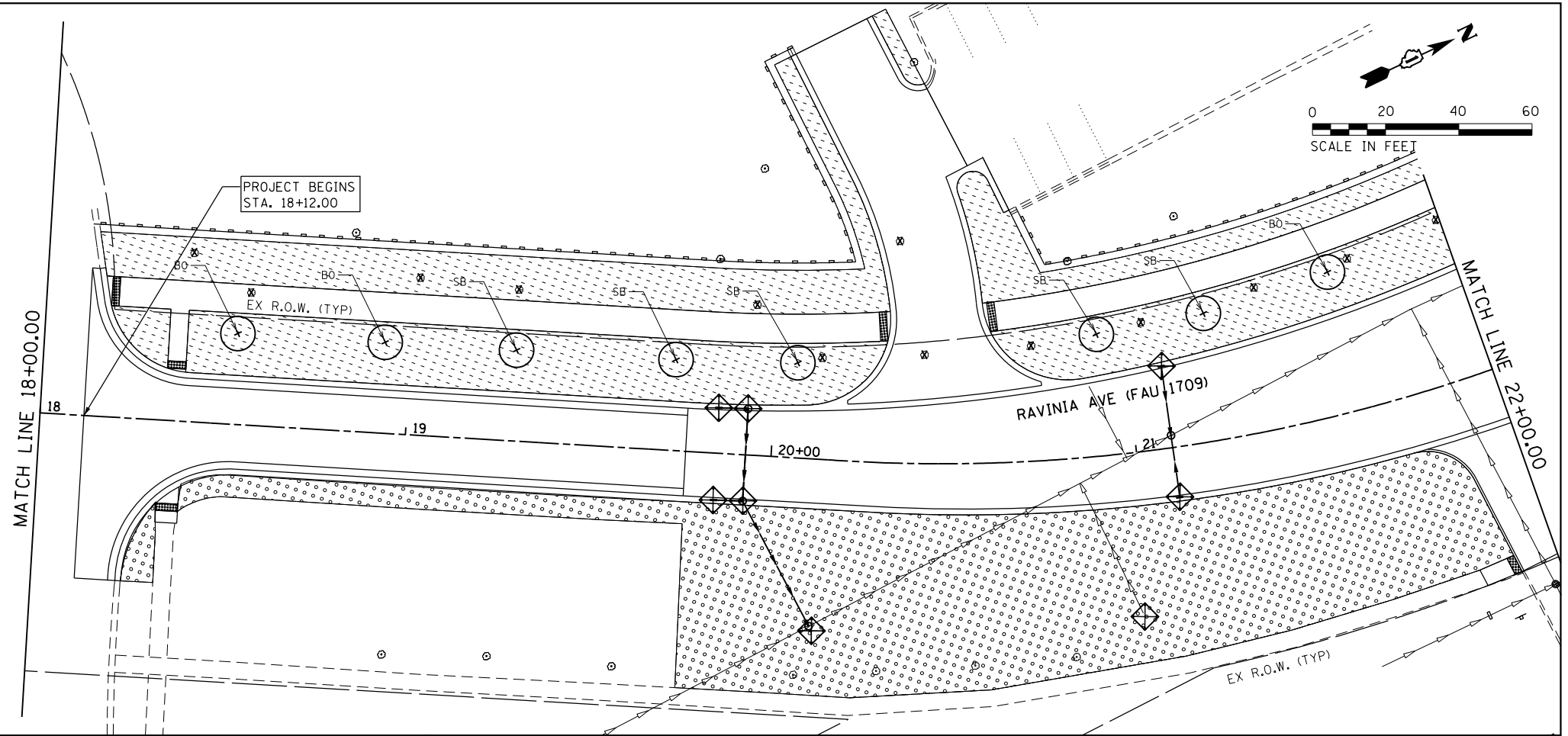
**RAVINIA AVENUE
 LANDSCAPING AND EROSION CONTROL PLAN**

SCALE: 20 SHEET 1 OF 3 SHEETS STA. 14+00 TO STA. 18+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	87
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	

LEGEND

-  INLET FILTERS OR INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE
-  SODDING, SALT TOLERANT (SPECIAL)
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
-  SEEDING, CLASS 2A
EROSION CONTROL BLANKET
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
-  PROPOSED DECIDUOUS TREE
-  PROPOSED EVERGREEN
-  PROPOSED PERENNIAL
-  TREE OR SHRUB REMOVAL (SEE REMOVAL SHEETS)



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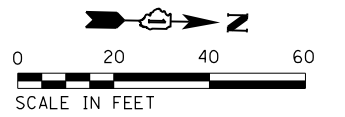
SA STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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MODEL NAME = Default	DRAWN - AJJ	REVISED -
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






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

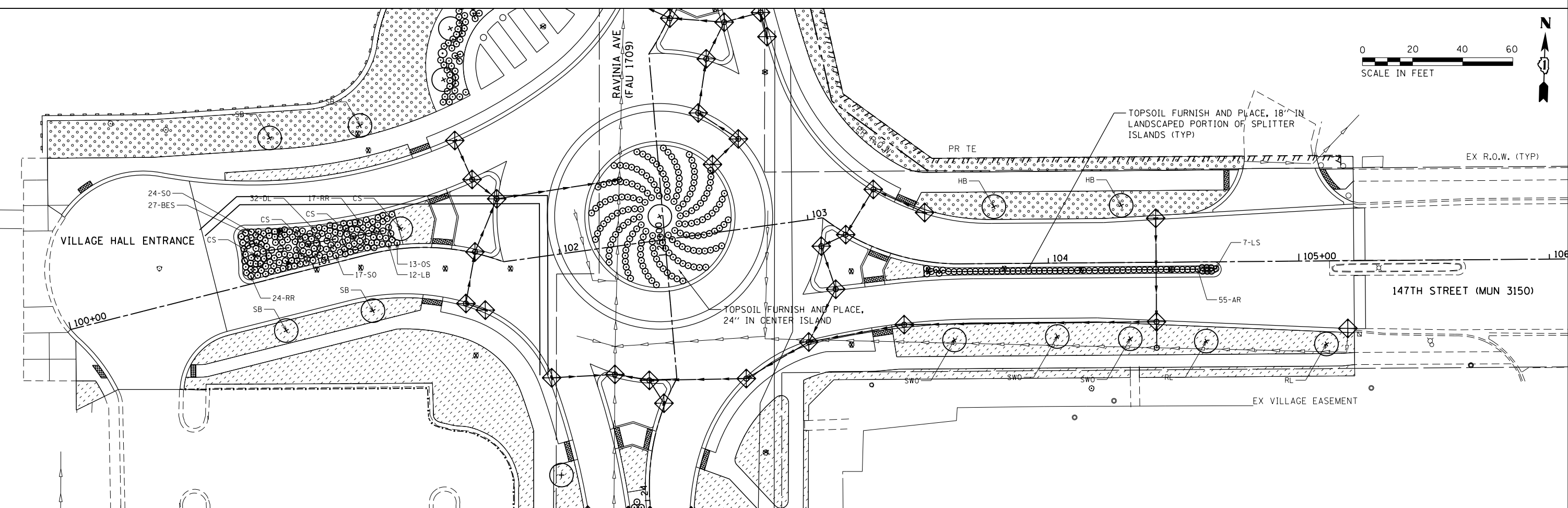
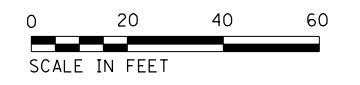
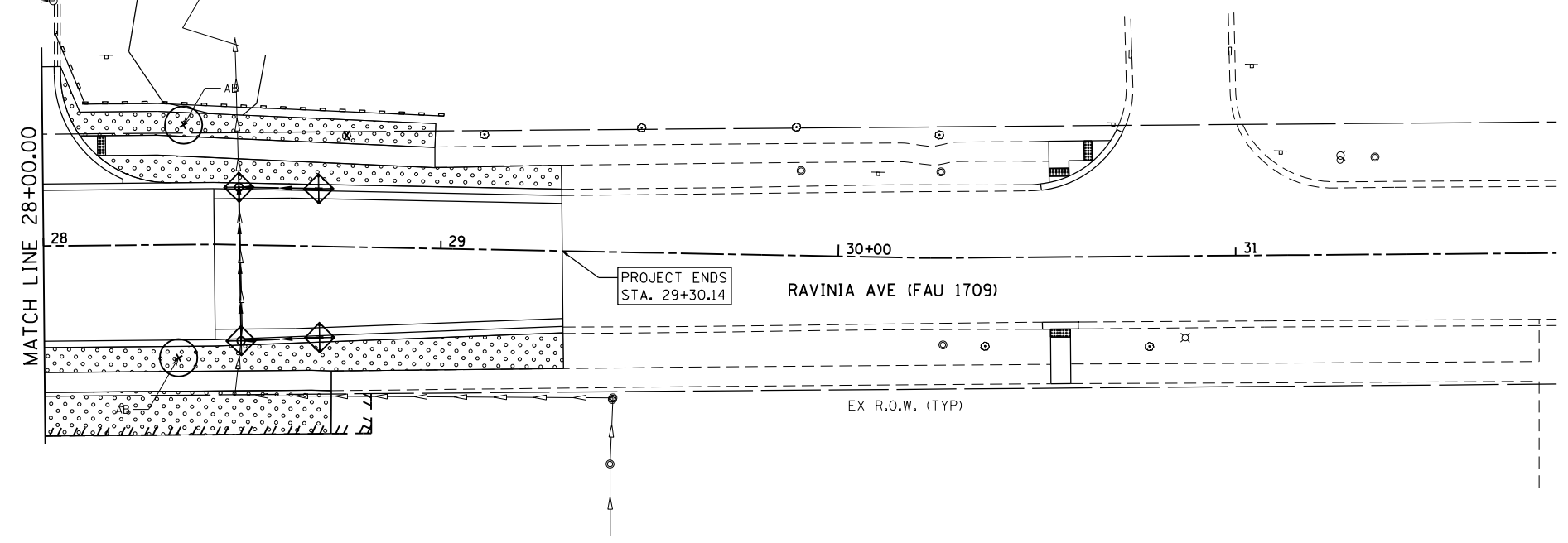
**RAVINIA AVENUE
LANDSCAPING AND EROSION CONTROL PLAN**
SCALE: 20 SHEET 2 OF 3 SHEETS STA. 18+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	88
				CONTRACT NO. 61E48
ILLINOIS FED. AID PROJECT				



LEGEND

-  INLET FILTERS OR INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE
-  SODDING, SALT TOLERANT (SPECIAL)
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
-  SEEDING, CLASS 2A
EROSION CONTROL BLANKET
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
-  PROPOSED DECIDUOUS TREE
-  PROPOSED EVERGREEN
-  PROPOSED PERENNIAL
-  TREE OR SHRUB REMOVAL (SEE REMOVAL SHEETS)



FILE NAME = SA\JOL\1520--1599\1555\004\Micros\CAD\Sheets\112345-att1-Indrop-3.dgn



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MODEL NAME = Default	DRAWN - AJJ	REVISED -
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PLOT DATE = 1/11/2018	DATE - 11/29/2017	REVISED -

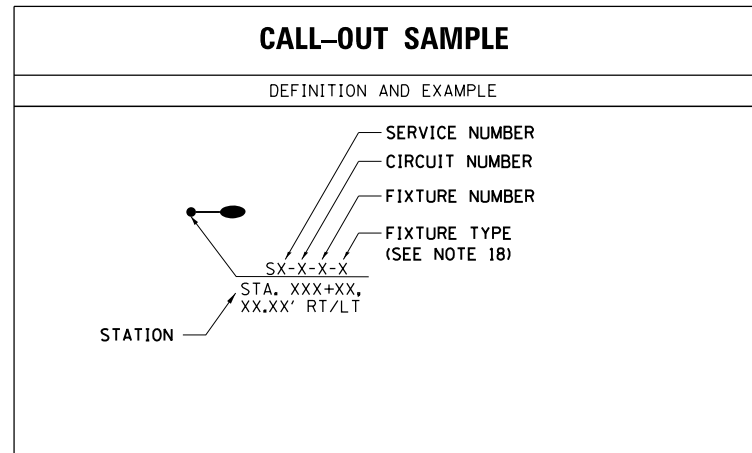
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE AND 147TH STREET
LANDSCAPING AND EROSION CONTROL PLAN**

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	89
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHT POLE, ALUMINUM 30 FT M.H. 29" MAST ARM, LIGHT POLE FOUNDATION, 24" DIAMETER AND TEARDROP FIXTURE
	REMOVAL OF LIGHTING UNIT, SALVAGE REMOVAL OF POLE FOUNDATION
	TEMPORARY AERIAL CABLE
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN CONCEALED CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED
	PROPOSED FLAG POLE, MOUNTED ACCENT LIGHT, 6W, TOP MOUNT

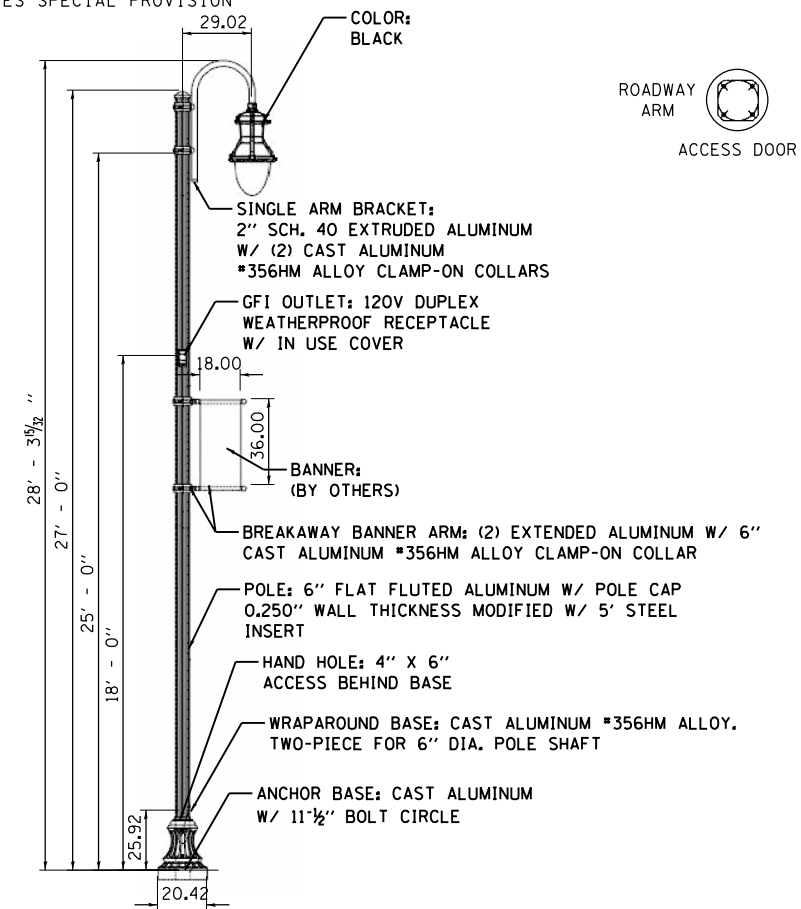


ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LTFM	LIQUID TIGHT FLEXIBLE METALLIC
LPS	LOW PRESSURE SODIUM
M	METER
MA	MAST ARM
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC	PVC COATED RIGID GALVANIZED CONDUIT
RGC	RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
XFMR	TRANSFORMER
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
WP	WOOD POLE

- GENERAL NOTES**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
 - ALL NEW CONDUITS, UNIT DUCTS AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL BE APPROVED BY THE ENGINEER.
 - THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL THE LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRE CONSTRUCTION INSPECTION. THE EXACT LOCATION OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
 - GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE OBSERVED AND APPROVED BY THE ENGINEER PRIOR TO CONCRETE POURING OR BACKFILLING, AS APPLICABLE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATION OF THE FINISHED GRADE WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIERS RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
 - ALL LUMINAIRE'S SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER. THE LUMINAIRE'S MAY REQUIRE NIGHT-TIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
 - CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30 INCH DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE VILLAGE OF ORLAND PARK. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
 - THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE AS PART OF THE UNDERGROUND CONDUIT OR UNIT DUCT. THE INSTALLATION OF THE TAPE SHALL BE OBSERVED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
 - WHERE THE CONTRACTORS EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
 - THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS, FOUNDATIONS AND UNIT DUCTS WITH THE ROADWAY, DRAINAGE, CURB, AND SIDEWALK WORK AND UNDERGROUND UTILITIES.
 - NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE BEEN CURED FOR 10 DAYS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - SPLICING OF CONDUCTORS SHALL BE IN POLE BASES OR ABOVE-GRADE WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
 - ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
 - INSTALL ELECTRIC UTILITY SERVICES PER IDOT STANDARD DETAIL 825026-03.
 - ALL EXISTING LIGHTING UNITS AND AERIAL CABLE WILL BE REMOVED BY ELECTRIC UTILITY. COORDINATE REMOVAL WITH ELECTRIC UTILITY.
 - PHOTOMETRIC DISTRIBUTIONS AND WATTAGES TO BE USED VARY DEPENDING ON LOCATION. LABELS SHOWN ON THE PLANS ARE BASED ON THE PHOTOMETRIC DISTRIBUTION AND WATTAGE TABLE.

ITEM	UNIT	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION (80400100)	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION (80400200)	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)	FOOT	881
UNDERGROUND CONDUIT, PVC, 1 1/4" DIA. (81028330)	FOOT	36
CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL (81100420)	FOOT	36
HANDHOLE (81400100)	EACH	2
UNIT DUCT, 600V, 2-1C NO. 10, 1/2" NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE (81603010)	FOOT	3964
UNIT DUCT, 600V, 3-1C NO. 10, 1/2" NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE (81603020)	FOOT	1633
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 3 (81702145)	FOOT	216
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100 AMP (82500360)	EACH	1
LIGHT POLE FOUNDATION, 24" DIAMETER (83600200)	FOOT	236
REMOVAL OF LIGHTING UNIT, SALVAGE (84200500)	EACH	13
REMOVAL OF POLE FOUNDATION (84200804)	EACH	13
FLAG POLES (X0323407)	EACH	3
ORNAMENTAL LIGHT UNIT, COMPLETE (X0326654)	EACH	26
JUNCTION BOX (SPECIAL) (X8130110)	EACH	1
LIGHT POLE, SPECIAL (X8300001)	EACH	24
TEMPORARY LIGHTING SYSTEM (X8410102)	L SUM	1
LUMINAIRE SAFETY CABLE ASSEMBLY (Z0033020)	EACH	26

* INDICATES SPECIAL PROVISION



DISTRIBUTION LABEL	DISTRIBUTION TYPE AND WATTAGE	QUANTITY
TYPE A	TYPE II, 185W LED, SINGLE 29" MAST ARM	22
TYPE B	TYPE II, 185W LED, DOUBLE 29" MAST ARM 180° APART	2

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
E1	LEGEND, ABBREVIATION, GENERAL NOTES, AND INDEX OF DRAWINGS
E2 TO E3	EXISTING LIGHTING PLANS
E4	PROPOSED TEMPORARY LIGHTING PLANS
E5 TO E8	PROPOSED LIGHTING PLANS

IDOT STANDARD DETAILS

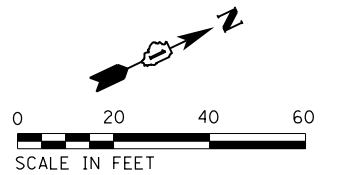
814001-03	HANDHOLES
825026-03	LIGHTING CONTROLLER BASE MOUNTED, 480V
838001-01	BREAKAWAY DEVICES

IDOT DISTRICT 1 STANDARD DETAILS

BE-300	LIGHT POLE FOUNDATION 30' TO 35' M.H. 11 1/2" BOLT CIRCLE
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS, SHEET A-(CABLE SPLICE, POLE WIRING, TRENCH DETAIL)
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION

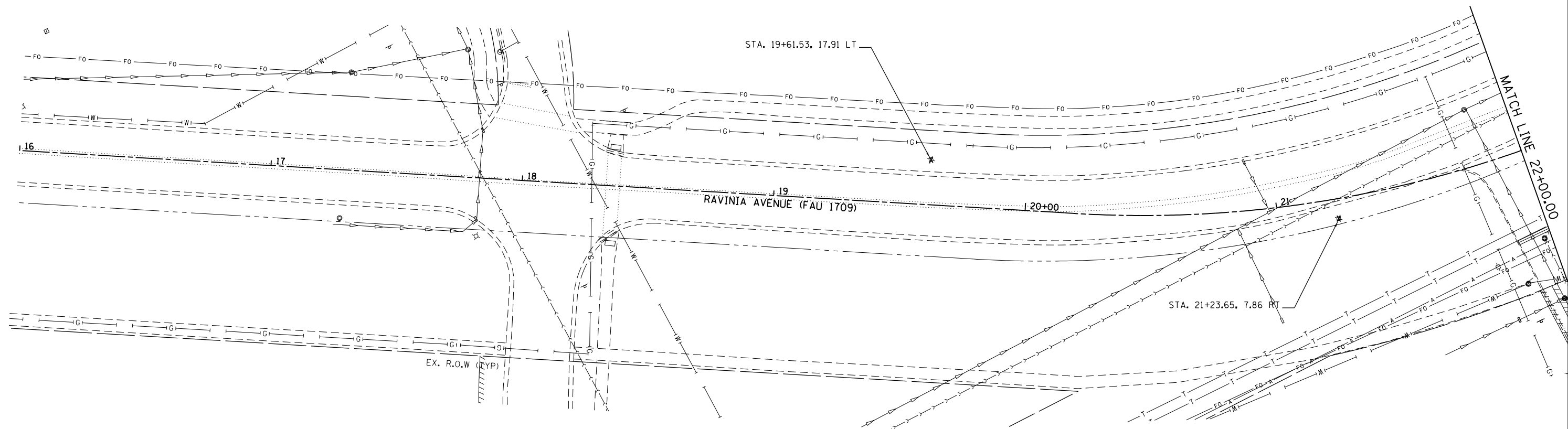
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	CONTRACT NO. 61E48						



LEGEND

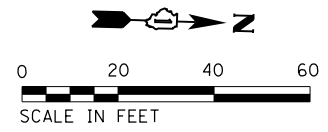
- ⊠ EXISTING LIGHTING UNIT
- ✕ REMOVAL OF LIGHTING UNIT, SALVAGE
REMOVAL OF POLE FOUNDATION
- INDICATES EXISTING ORNAMENTAL BOLLARD
LIGHTING UNIT



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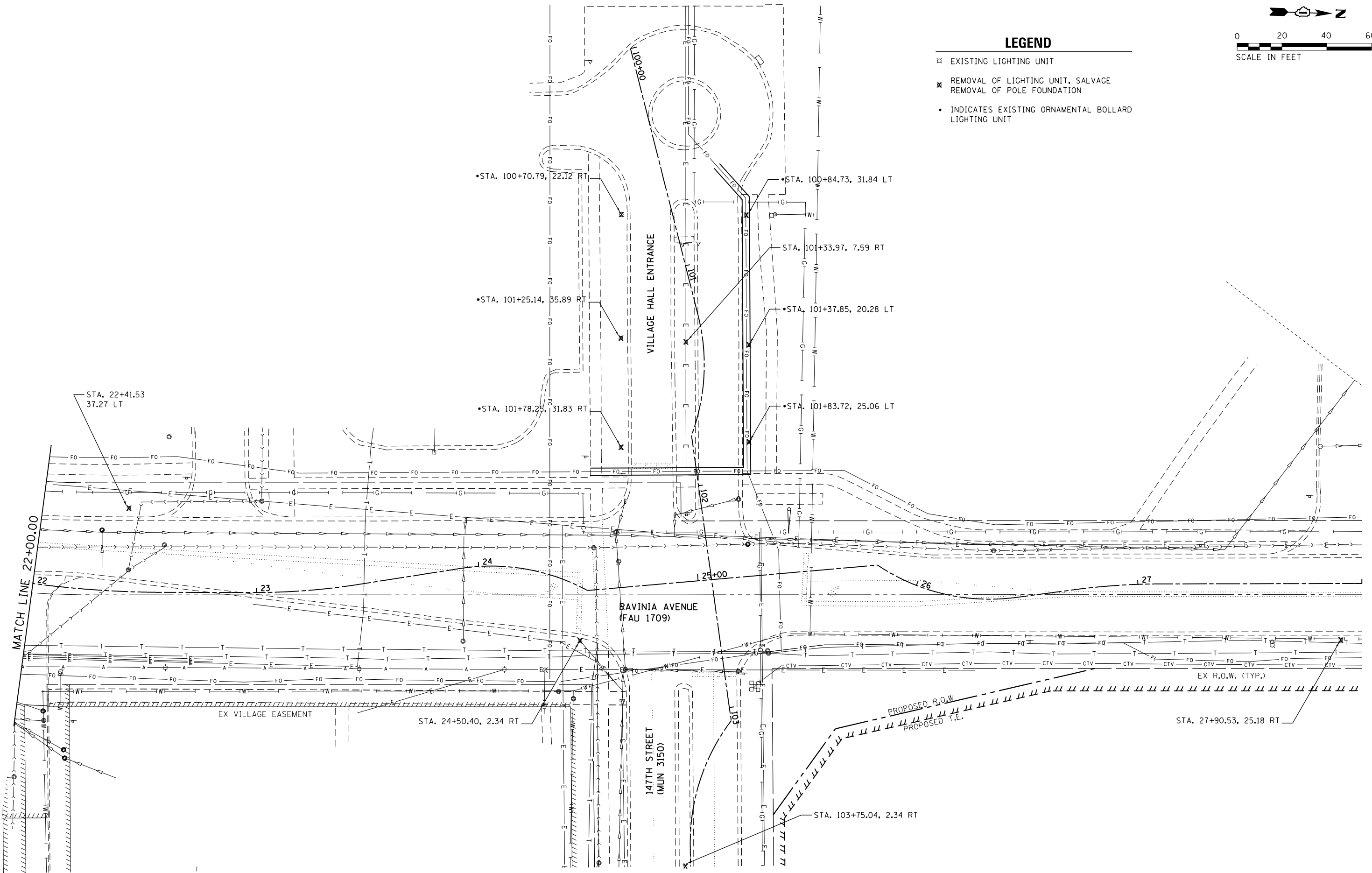
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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = BillP MODEL NAME = Default PLOT SCALE = 40.0000' / in. PLOT DATE = 12/15/2017	DESIGNED - WRP DRAWN - AJJ CHECKED - MAG DATE - 11/29/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAVINIA AVENUE STREET LIGHTING REMOVAL PLAN			F.A.U. RTE. 1709 SECTION 12-00069-00-CH COUNTY COOK TOTAL SHEETS 131 SHEET NO. 91	CONTRACT NO. 61E48
					SCALE: 20 SHEET 1 OF 2 SHEETS STA. 16+00 TO STA. 22+00	ILLINOIS FED. AID PROJECT			



LEGEND

- ⊗ EXISTING LIGHTING UNIT
- ✕ REMOVAL OF LIGHTING UNIT, SALVAGE
REMOVAL OF POLE FOUNDATION
- INDICATES EXISTING ORNAMENTAL BOLLARD
LIGHTING UNIT



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 PLOT DATE = 12/15/2017

DESIGNED - WRP
 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

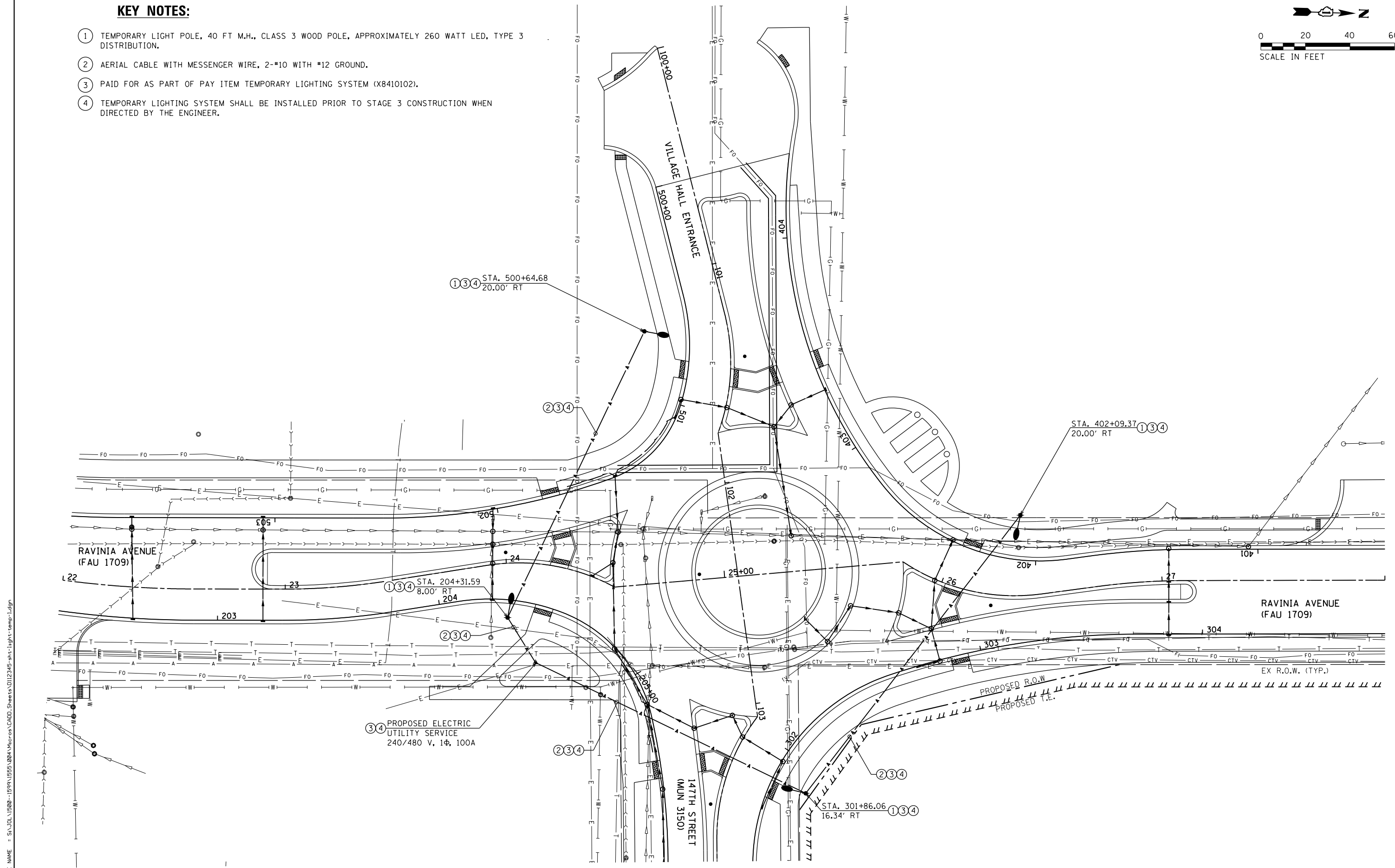
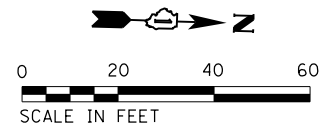
**RAVINIA AVENUE
 STREET LIGHTING REMOVAL PLAN**

SCALE: 20 SHEET 2 OF 2 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	92
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

KEY NOTES:

- ① TEMPORARY LIGHT POLE, 40 FT M.H., CLASS 3 WOOD POLE, APPROXIMATELY 260 WATT LED, TYPE 3 DISTRIBUTION.
- ② AERIAL CABLE WITH MESSENGER WIRE, 2-#10 WITH #12 GROUND.
- ③ PAID FOR AS PART OF PAY ITEM TEMPORARY LIGHTING SYSTEM (X8410102).
- ④ TEMPORARY LIGHTING SYSTEM SHALL BE INSTALLED PRIOR TO STAGE 3 CONSTRUCTION WHEN DIRECTED BY THE ENGINEER.



FILE NAME = SA\JUL1520--1599\1555\084\Microes\CAD\Drawings\112345-at-light-temp-1.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = BillP
MODEL NAME = Default
PLOT SCALE = 48.0000' / in.
PLOT DATE = 12/15/2017

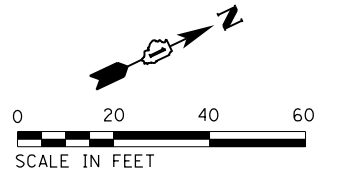
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DRAWN - AJJ	REVISED -
CHECKED - MAG	REVISED -
DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
 TEMPORARY LIGHTING PLAN - STAGE 3**

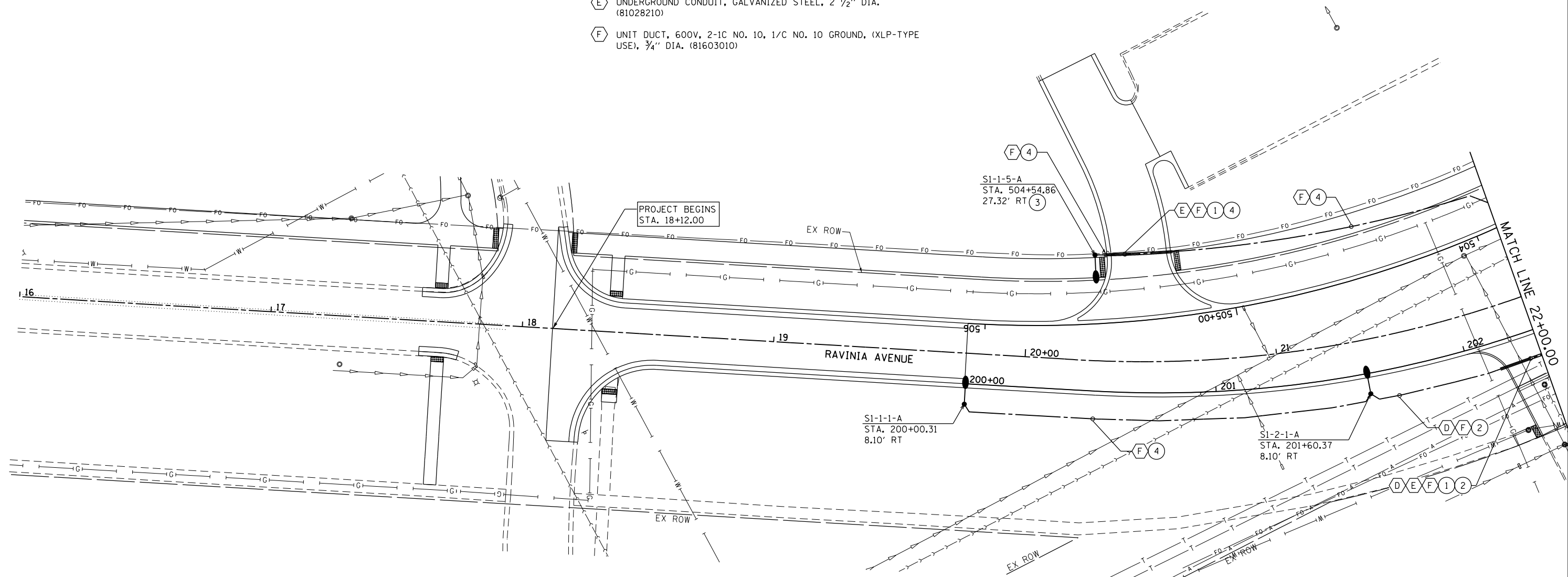
SCALE: 20 SHEET 1 OF 1 SHEETS STA. 22+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	93
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



UNIT DUCT, CONDUIT, CABLE SYMBOL LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL (81100420)
- (B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3 (81702145)
- (C) UNDERGROUND CONDUIT, 1 1/4" DIA., PVC (81028330)
- (D) UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020)
- (E) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)
- (F) UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010)



KEY NOTES:

- 1 PROVIDE ONE 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED ROADWAY LIGHTING UNIT DUCT AND A SECOND 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES UNIT DUCT.
- 2 UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020) SHALL BE FOR LIGHTING CIRCUITS 1 AND 2, UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010) SHALL BE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.
- 3 COORDINATE OFFSET TO AVOID EXISTING FIBER OPTIC CABLING.
- 4 PROVIDE 2 UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE) IN THIS AREA, ONE FOR LIGHTING CIRCUIT AND ONE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\0112345-att-light-1.dgn



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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
STREET LIGHTING PLAN**

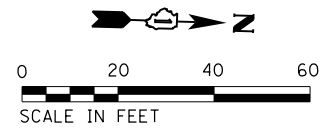
SCALE: 20 SHEET 1 OF 4 SHEETS STA. 16+00 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	94
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

E5

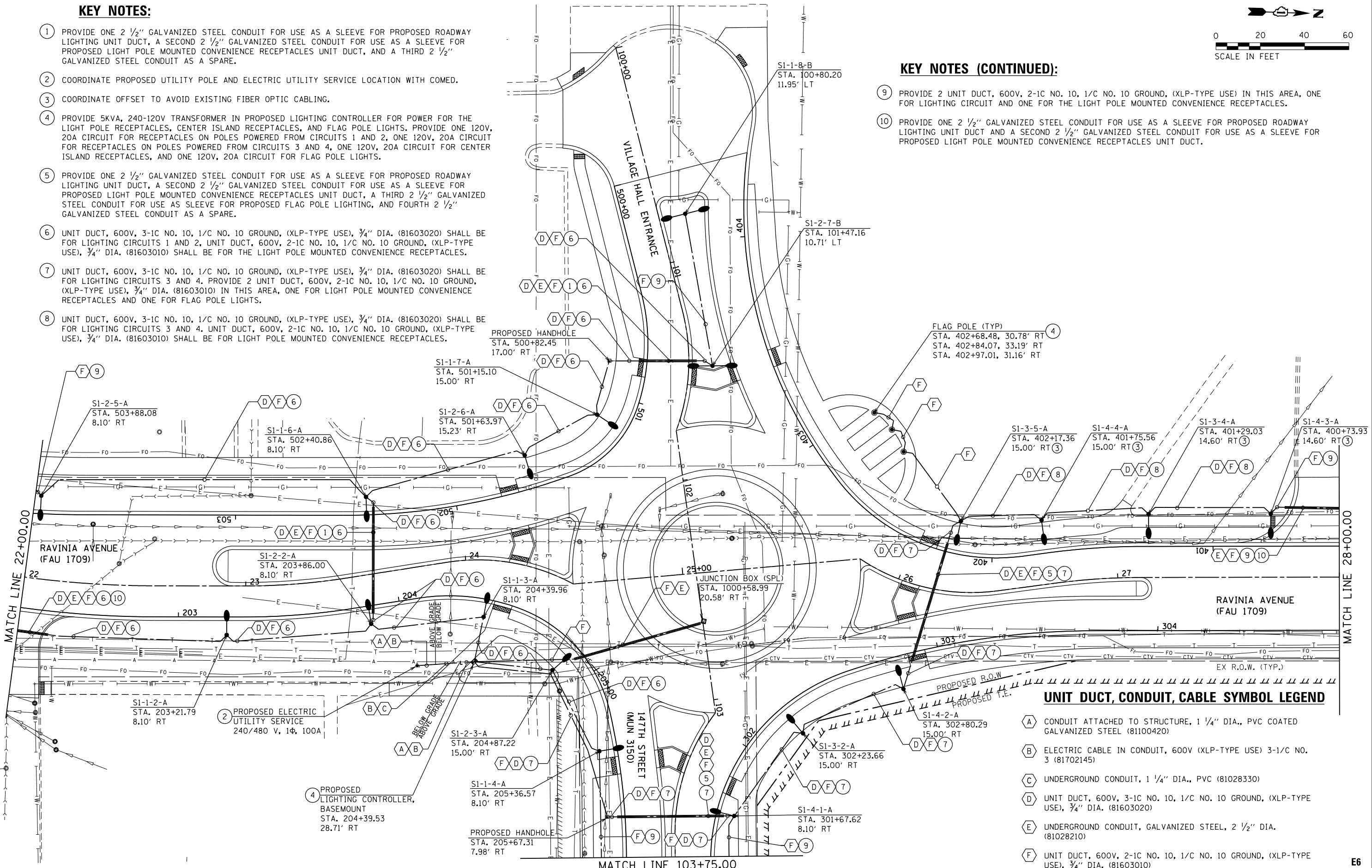
KEY NOTES:

- 1 PROVIDE ONE 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED ROADWAY LIGHTING UNIT DUCT, A SECOND 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES UNIT DUCT, AND A THIRD 2 1/2" GALVANIZED STEEL CONDUIT AS A SPARE.
- 2 COORDINATE PROPOSED UTILITY POLE AND ELECTRIC UTILITY SERVICE LOCATION WITH COMED.
- 3 COORDINATE OFFSET TO AVOID EXISTING FIBER OPTIC CABLING.
- 4 PROVIDE 5KVA, 240-120V TRANSFORMER IN PROPOSED LIGHTING CONTROLLER FOR POWER FOR THE LIGHT POLE RECEPTACLES, CENTER ISLAND RECEPTACLES, AND FLAG POLE LIGHTS. PROVIDE ONE 120V, 20A CIRCUIT FOR RECEPTACLES ON POLES POWERED FROM CIRCUITS 1 AND 2, ONE 120V, 20A CIRCUIT FOR RECEPTACLES ON POLES POWERED FROM CIRCUITS 3 AND 4, ONE 120V, 20A CIRCUIT FOR CENTER ISLAND RECEPTACLES, AND ONE 120V, 20A CIRCUIT FOR FLAG POLE LIGHTS.
- 5 PROVIDE ONE 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED ROADWAY LIGHTING UNIT DUCT, A SECOND 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES UNIT DUCT, A THIRD 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS SLEEVE FOR PROPOSED FLAG POLE LIGHTING, AND FOURTH 2 1/2" GALVANIZED STEEL CONDUIT AS A SPARE.
- 6 UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020) SHALL BE FOR LIGHTING CIRCUITS 1 AND 2, UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010) SHALL BE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.
- 7 UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020) SHALL BE FOR LIGHTING CIRCUITS 3 AND 4. PROVIDE 2 UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010) IN THIS AREA, ONE FOR LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES AND ONE FOR FLAG POLE LIGHTS.
- 8 UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020) SHALL BE FOR LIGHTING CIRCUITS 3 AND 4. UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010) SHALL BE FOR LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.



KEY NOTES (CONTINUED):

- 9 PROVIDE 2 UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE) IN THIS AREA, ONE FOR LIGHTING CIRCUIT AND ONE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.
- 10 PROVIDE ONE 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED ROADWAY LIGHTING UNIT DUCT AND A SECOND 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES UNIT DUCT.



UNIT DUCT, CONDUIT, CABLE SYMBOL LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL (81100420)
- (B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3 (81702145)
- (C) UNDERGROUND CONDUIT, 1 1/4" DIA., PVC (81028330)
- (D) UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020)
- (E) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)
- (F) UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010)

FILE NAME = S:\A\101\1500--1599\1555\004\Micros\Cad00_Sheets\112345-at-light-2.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = BillP	DESIGNED - WRP	REVISED -
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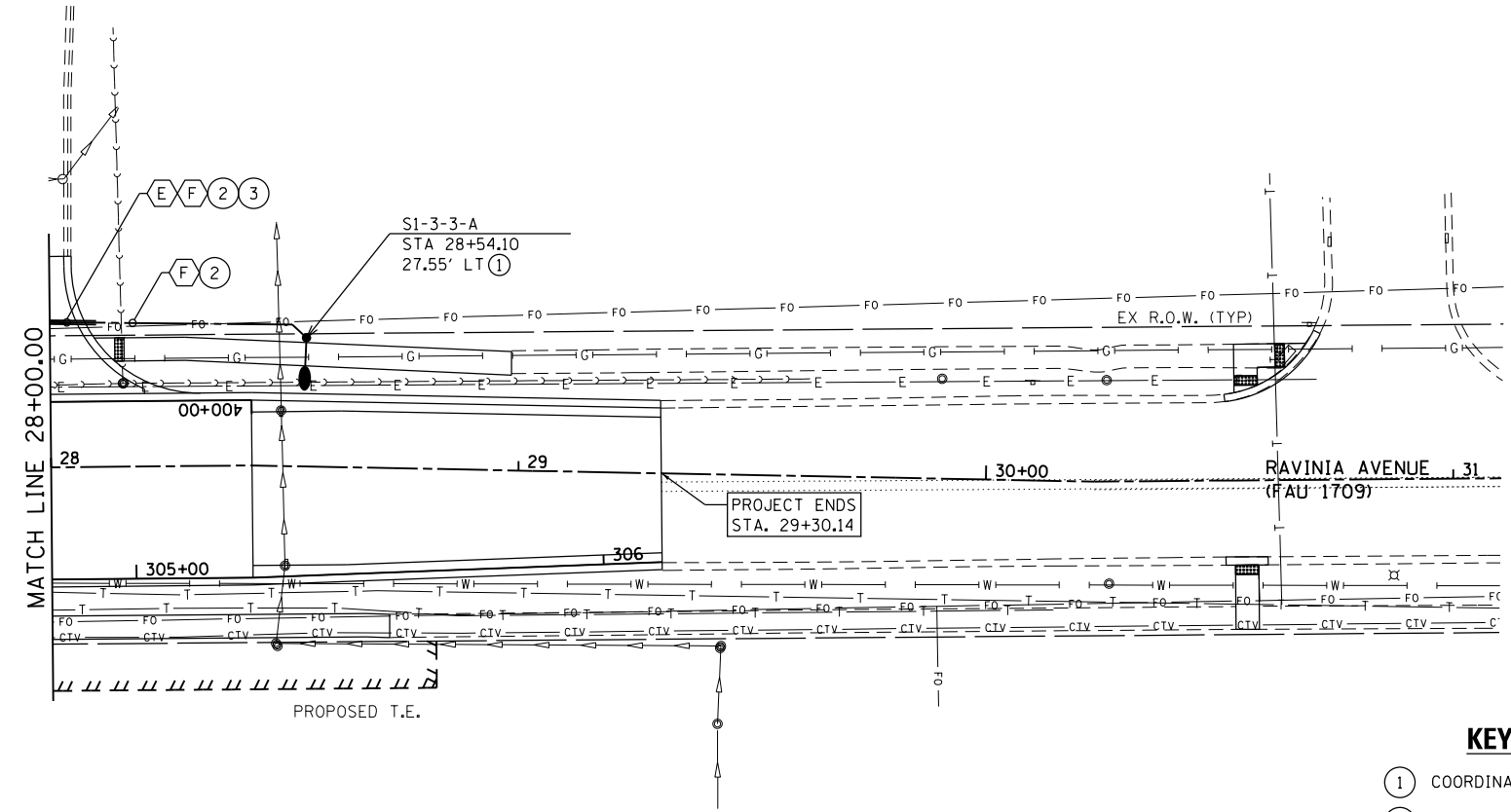
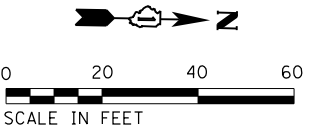
STATE OF ILLINOIS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION	1709	COOK	131	95

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

RAVINIA AVENUE STREET LIGHTING PLAN

SCALE: 20 SHEET 2 OF 4 SHEETS STA. 22+00 TO STA. 28+00

CONTRACT NO. 61E48	ILLINOIS FED. AID PROJECT
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KEY NOTES:

- ① COORDINATE OFFSET TO AVOID EXISTING FIBER OPTIC CABLING.
- ② PROVIDE 2 UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE) IN THIS AREA, ONE FOR LIGHTING CIRCUIT AND ONE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.
- ③ PROVIDE ONE 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED ROADWAY LIGHTING UNIT DUCT AND A SECOND 2 1/2" GALVANIZED STEEL CONDUIT FOR USE AS A SLEEVE FOR PROPOSED LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES UNIT DUCT.

UNIT DUCT, CONDUIT, CABLE SYMBOL LEGEND

- Ⓐ CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL (81100420)
- Ⓑ ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3 (81702145)
- Ⓒ UNDERGROUND CONDUIT, 1 1/4" DIA., PVC (81028330)
- Ⓓ UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020)
- Ⓔ UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)
- Ⓕ UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010)

FILE NAME = SA\JUL1520--1599\1555\004\Micros\CAD\Sheets\112345-dt-light-3.dgn



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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAVINIA AVENUE
STREET LIGHTING PLAN**

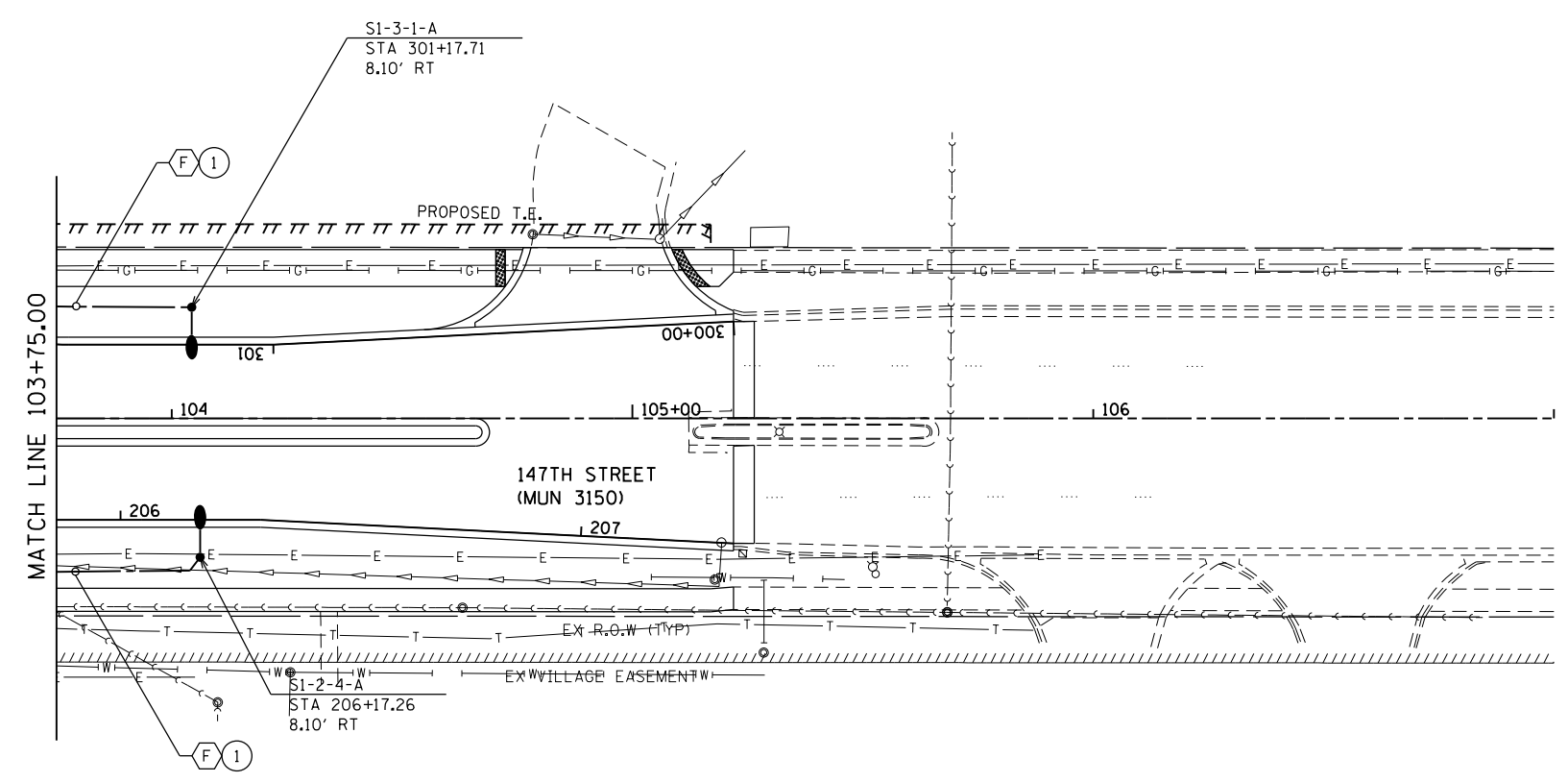
SCALE: 20 SHEET 3 OF 4 SHEETS STA. 28+00 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	96
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	



UNIT DUCT, CONDUIT, CABLE SYMBOL LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL (81100420)
- (B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3 (81702145)
- (C) UNDERGROUND CONDUIT, 1 1/4" DIA., PVC (81028330)
- (D) UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603020)
- (E) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (81028210)
- (F) UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. (81603010)



KEY NOTES:

- (1) PROVIDE 2 UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE) IN THIS AREA, ONE FOR LIGHTING CIRCUIT AND ONE FOR THE LIGHT POLE MOUNTED CONVENIENCE RECEPTACLES.

FILE NAME = SA\JUL1520--1595\1555\004\Micros\CAD\Sheets\112345-dt-1-light-4.dgn



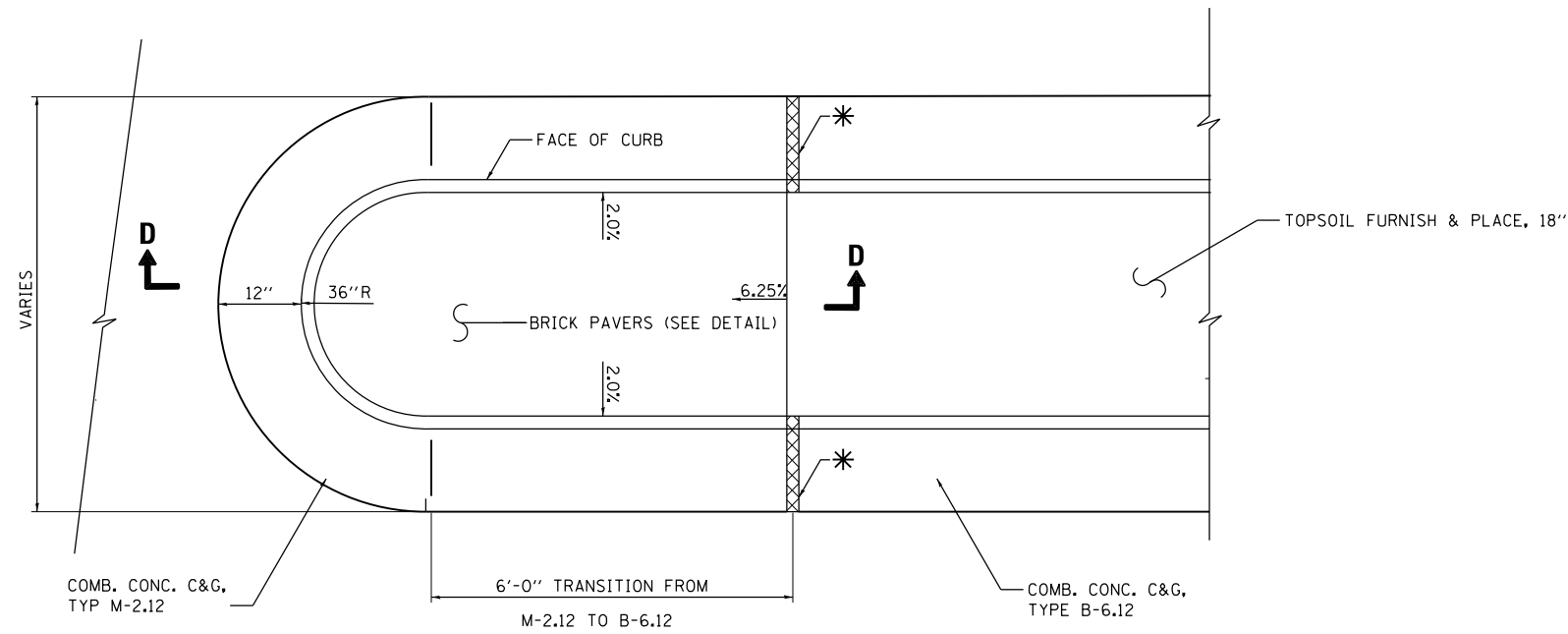
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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**147TH STREET
STREET LIGHTING PLAN**

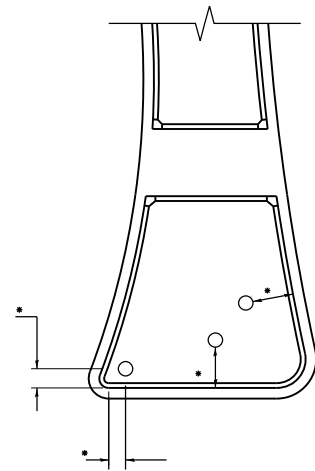
SCALE: 20 SHEET 4 OF 4 SHEETS STA. 103+75 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



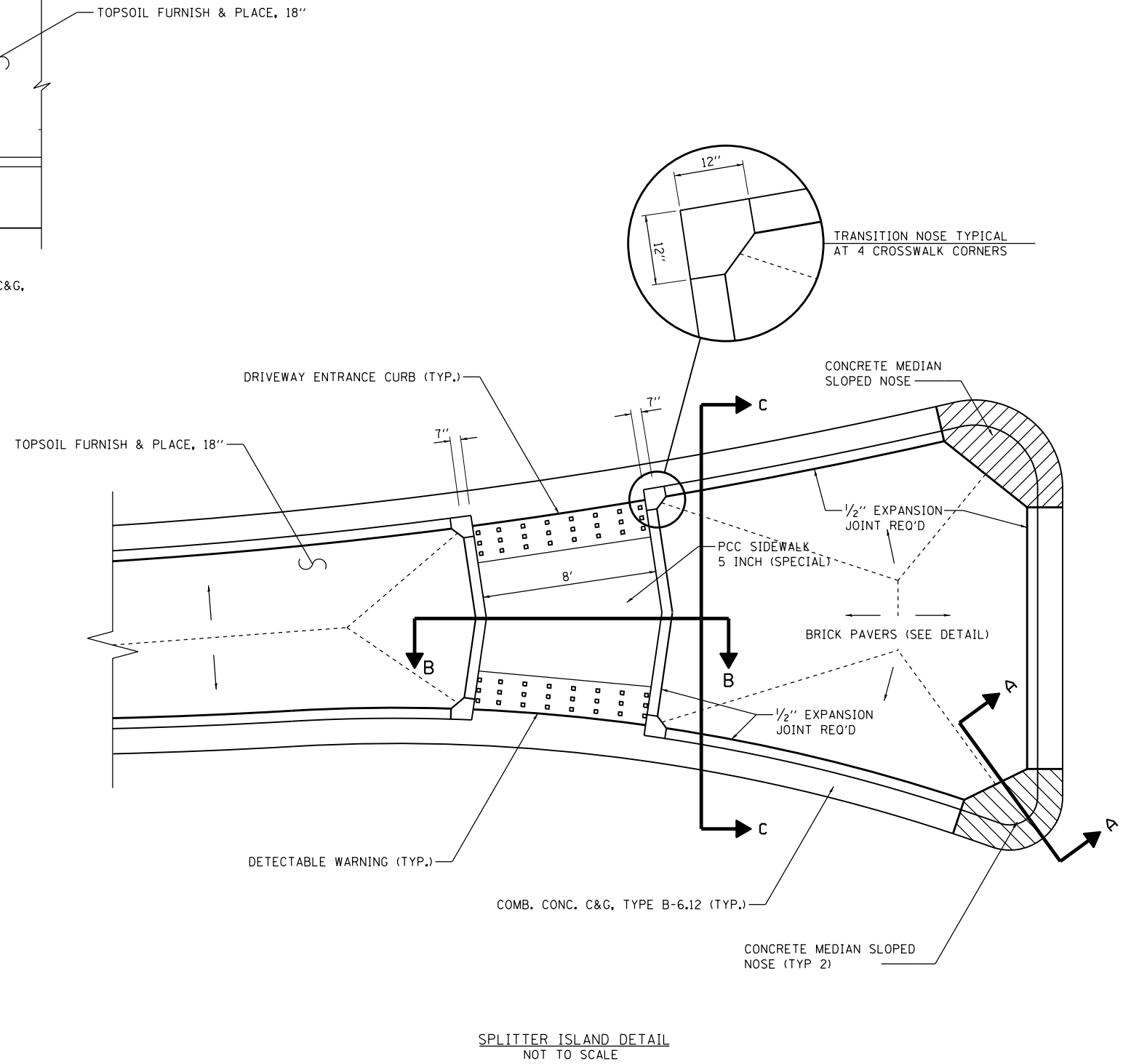
RAMPED MEDIAN NOSE
NOT TO SCALE

* 3/4 (20) PEJF BETWEEN RIGID PAVEMENT AND MEDIAN END. ALIGN WITH JOINT ADJACENT TO PCC CURB AND GUTTER.



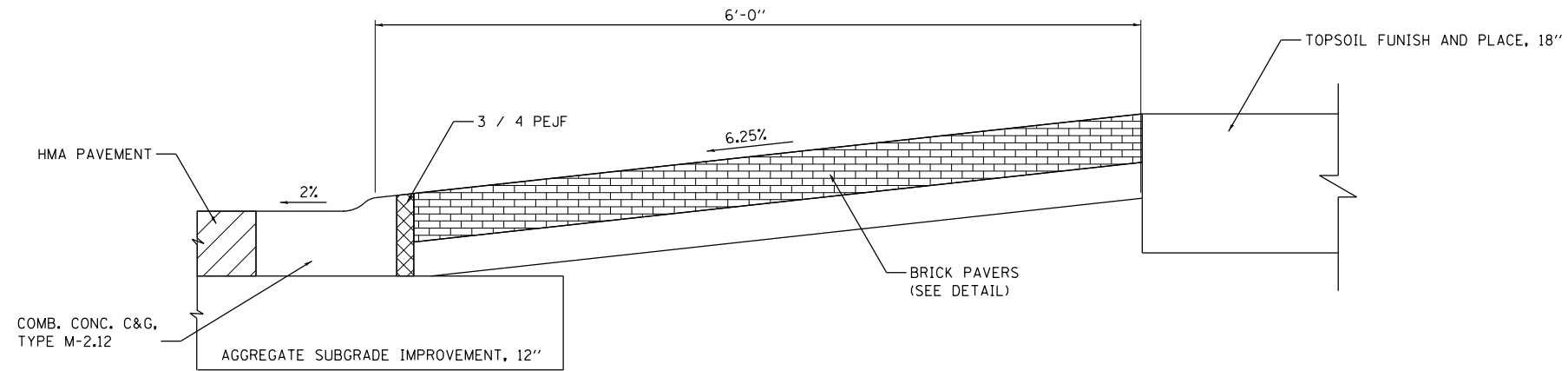
* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

CENTER AND SPLITTER ISLAND SIGN LOCATION DETAIL (TYP)
NOT TO SCALE

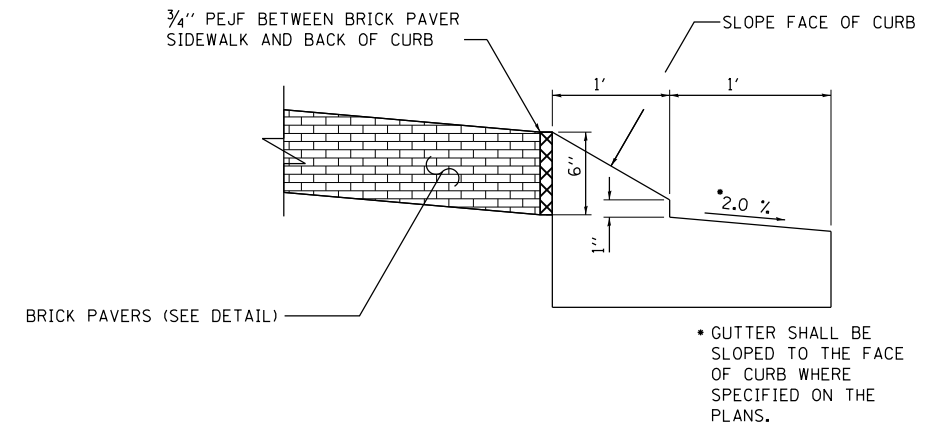


SPLITTER ISLAND DETAIL
NOT TO SCALE

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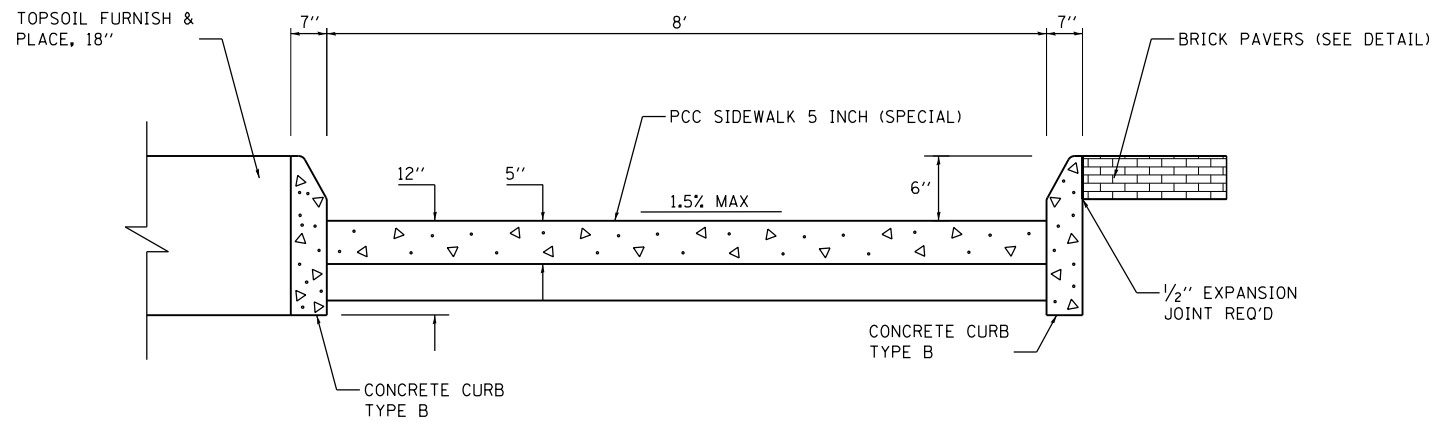


SECTION D-D
NOT TO SCALE

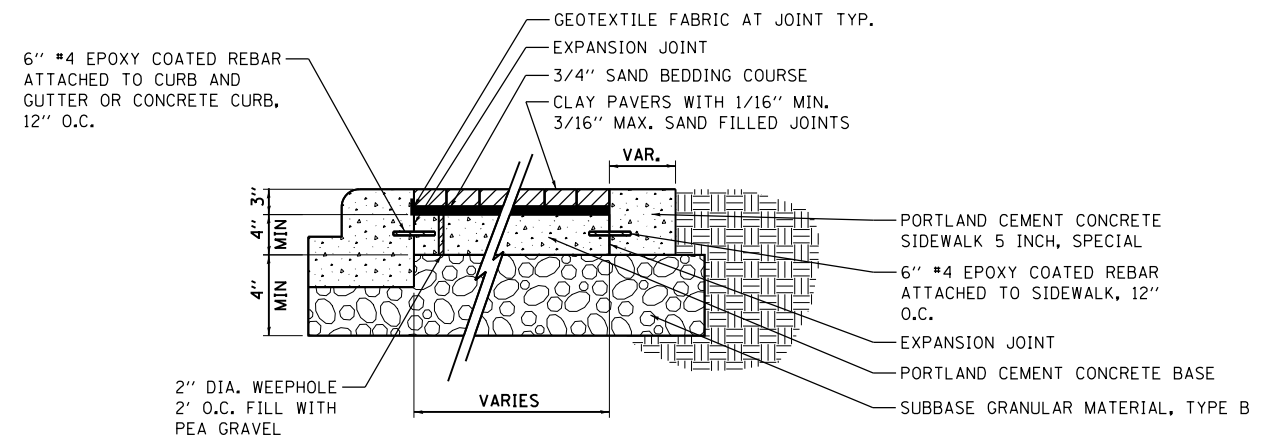


SECTION A-A - CONCRETE MEDIAN SLOPED NOSE
NOT TO SCALE

* GUTTER SHALL BE SLOPED TO THE FACE OF CURB WHERE SPECIFIED ON THE PLANS.



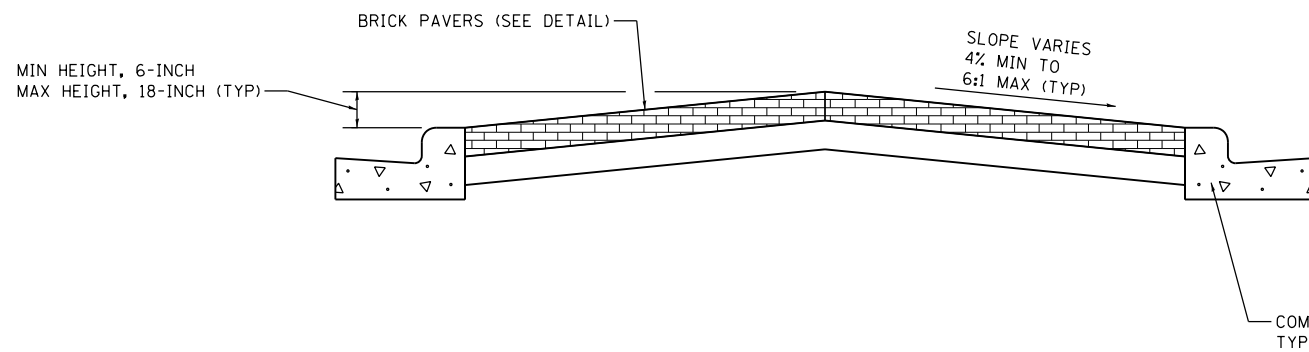
SECTION B-B
NOT TO SCALE



NOTES:

1. WEEP HOLES IN CONCRETE TO BE COVERED WITH WOVEN GEOTEXTILE FABRIC TO KEEP SAND OUT.
2. WOVEN GEOTEXTILE FABRIC SHALL BE FOLDED UP AT EDGES AND PLACED AT JOINTS. TYPE AND THICKNESS OF THE FABRIC PER THE PAVER MANUFACTURER'S RECOMMENDATIONS.

BRICK PAVERS DETAIL
NOT TO SCALE



SECTION C-C
NOT TO SCALE

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-ent-detail-1.dgn



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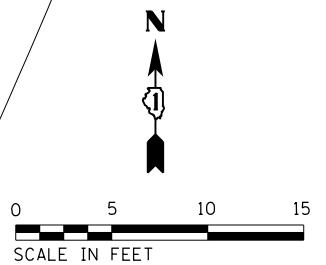
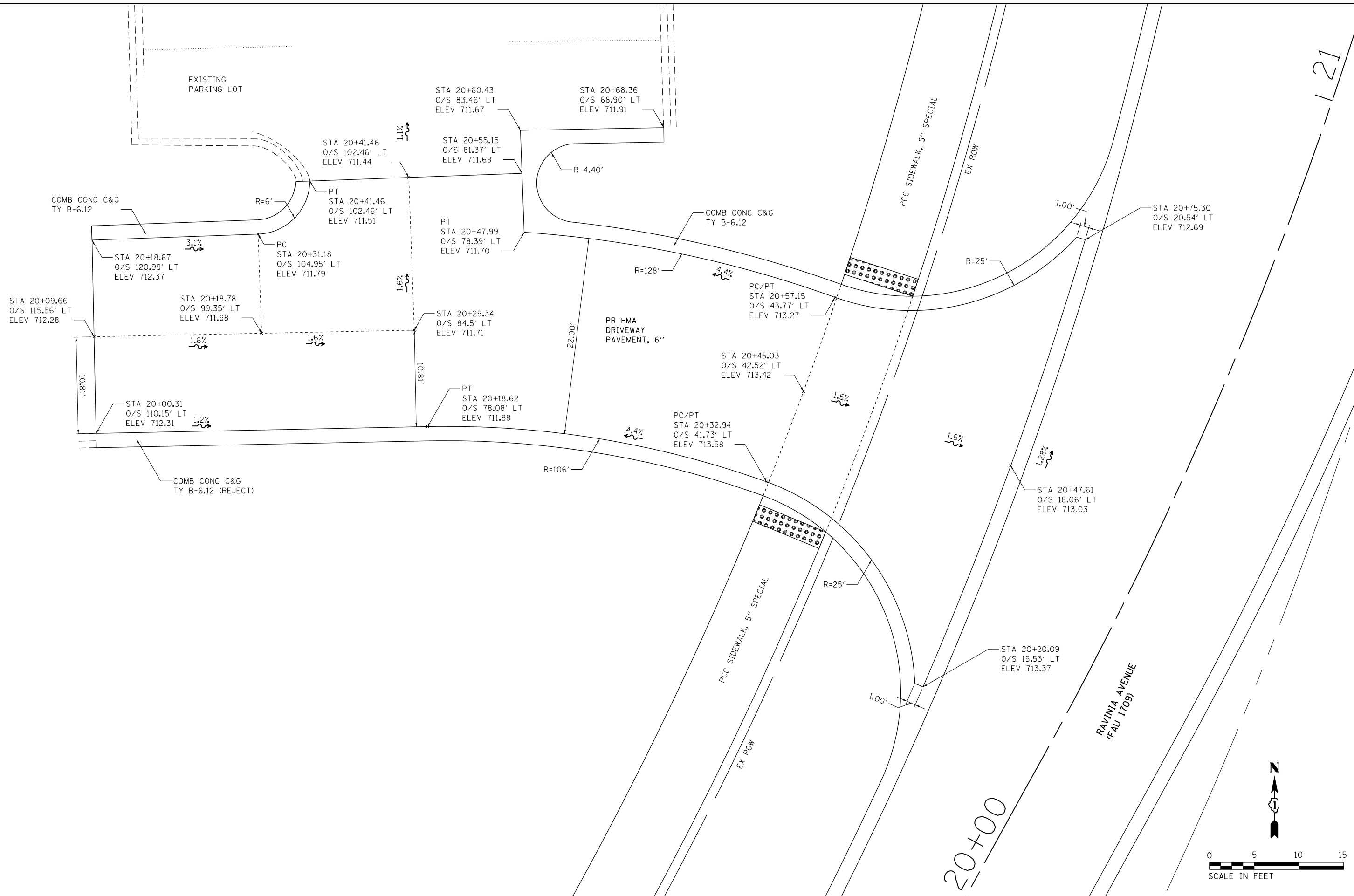
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

SCALE: NTS SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	99
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E48	

FILE NAME = SA\JOL\1520--1595\1555\004\Micros\CAD\Sheets\112345-ent-detail-entr.dwg



SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

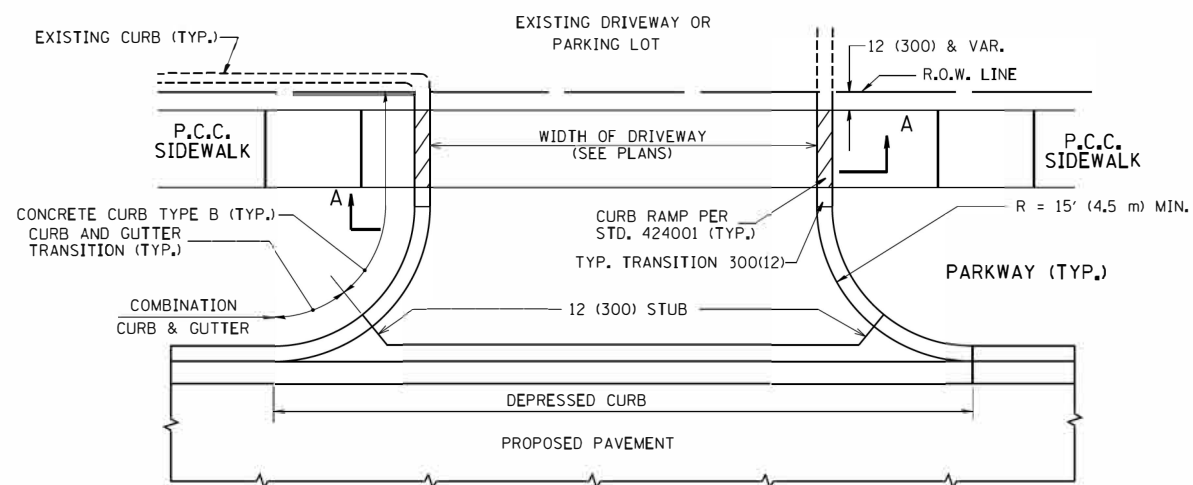
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PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

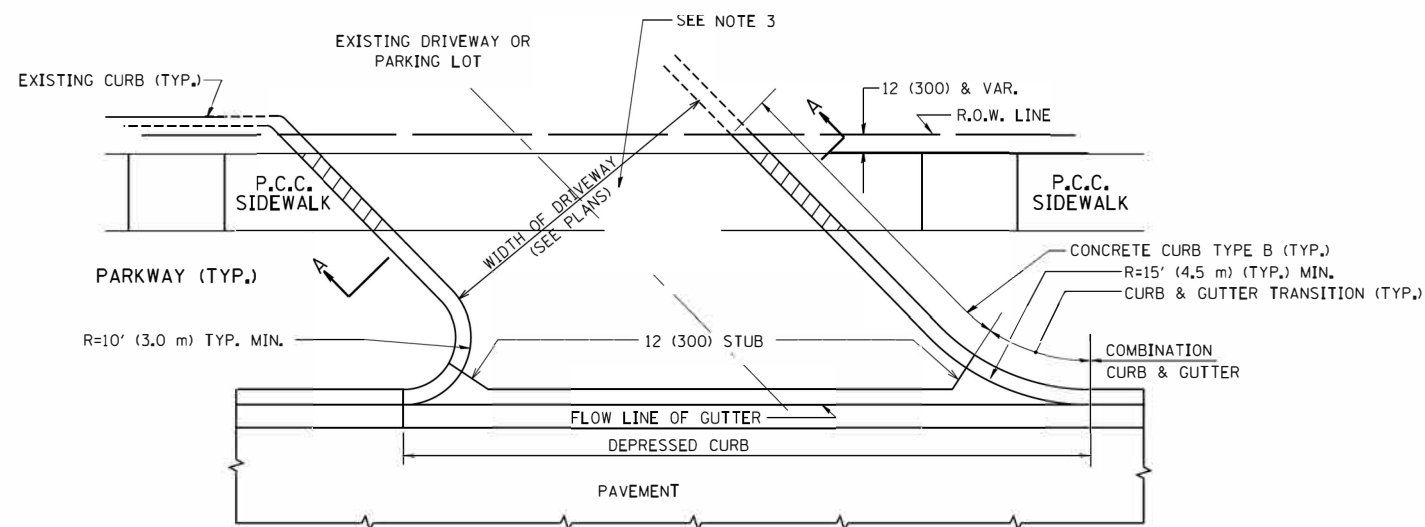
DRIVEWAY ENTRANCE DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

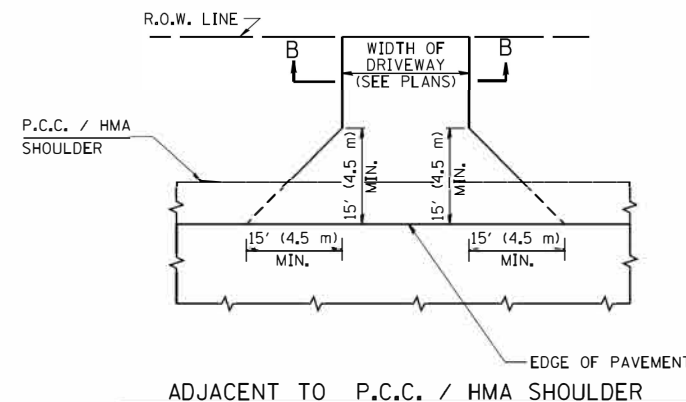
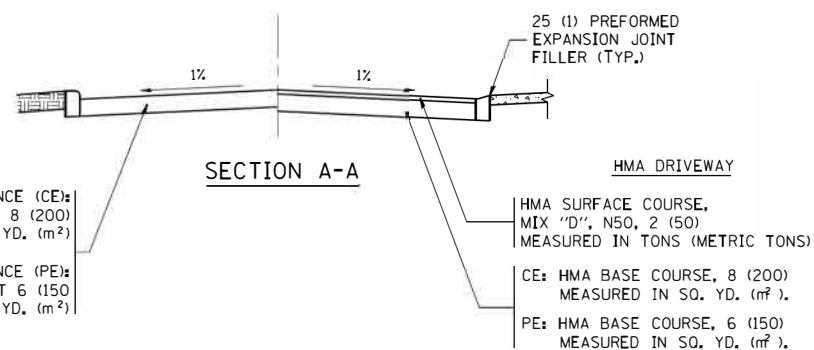
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CONTRACT NO.			61E48	
ILLINOIS FED. AID PROJECT				



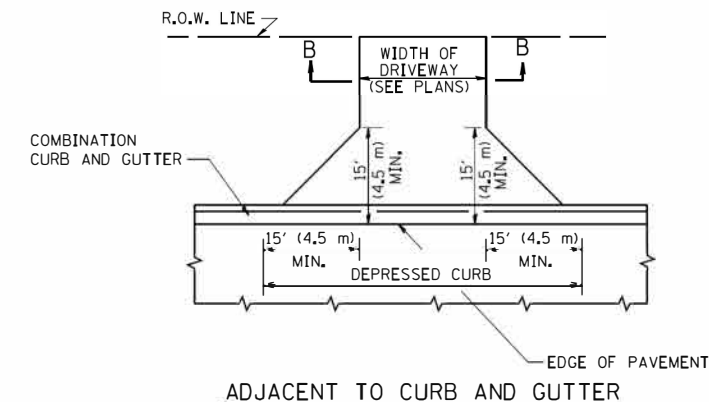
WITH CONCRETE CURB, TYPE B



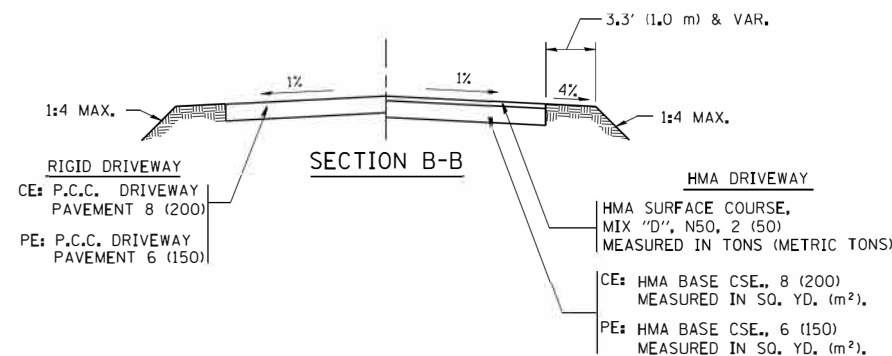
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX 'D', N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

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.

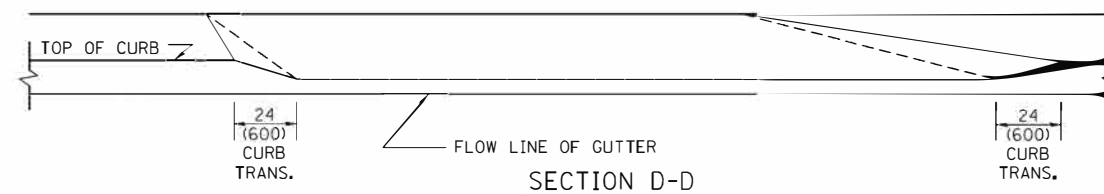
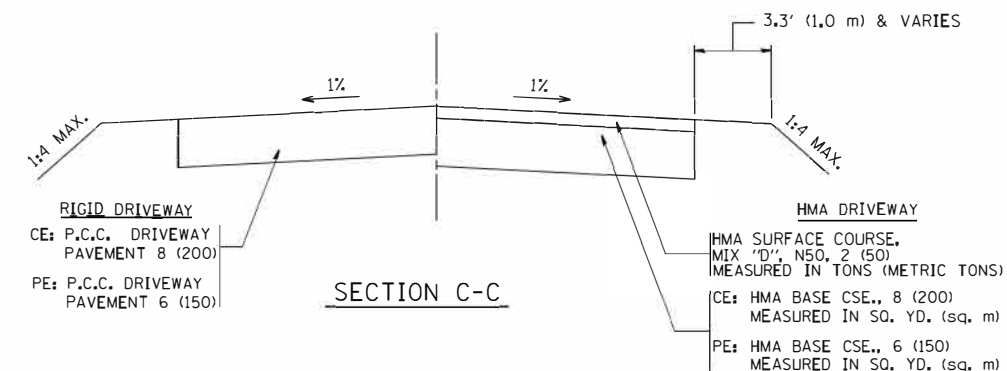
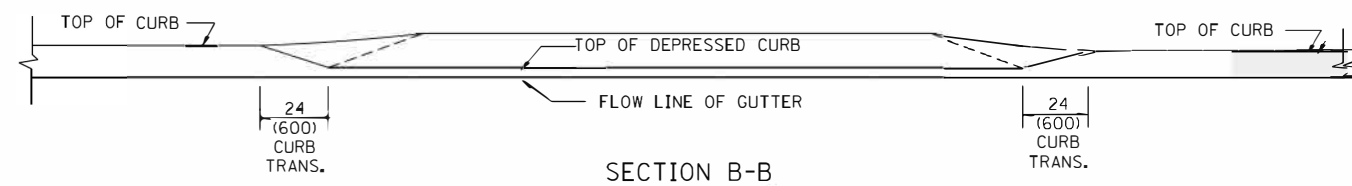
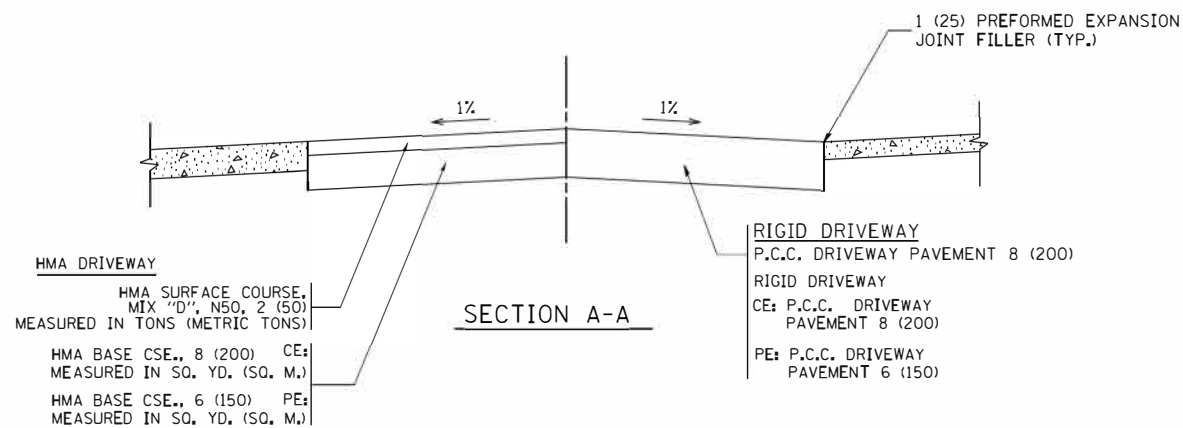
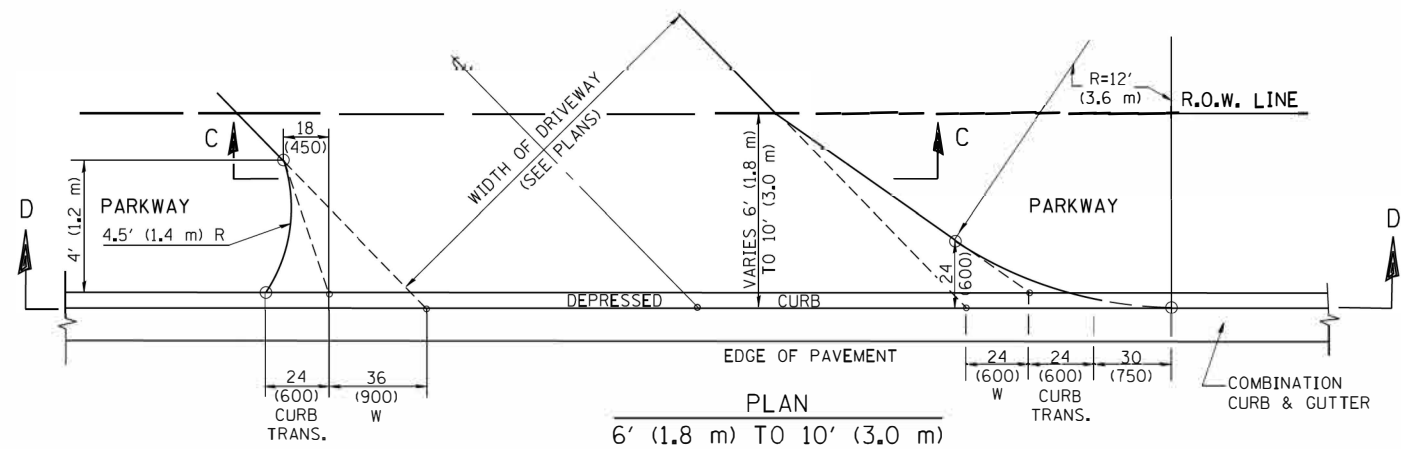
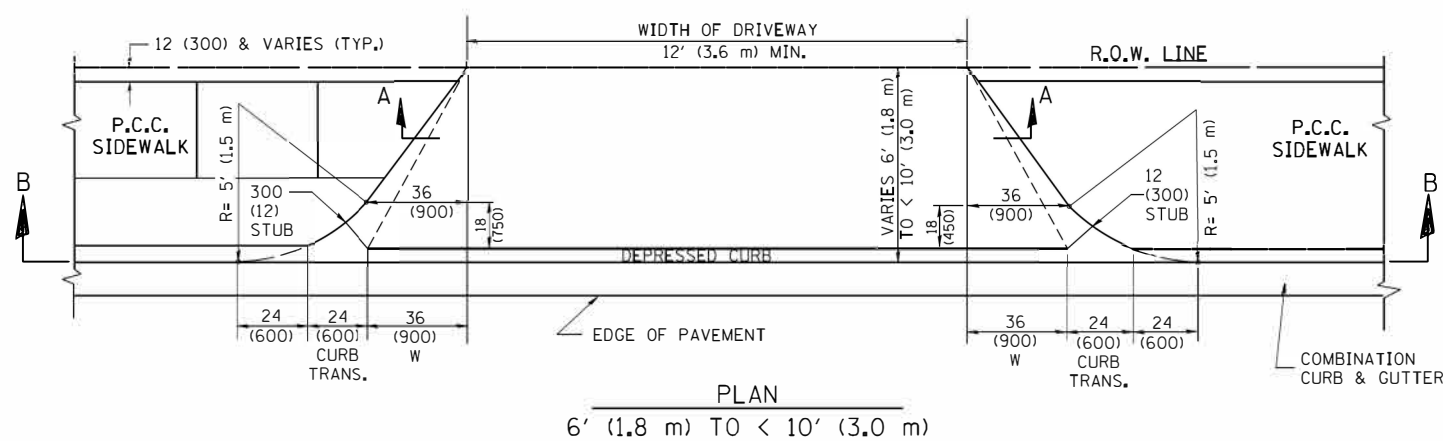
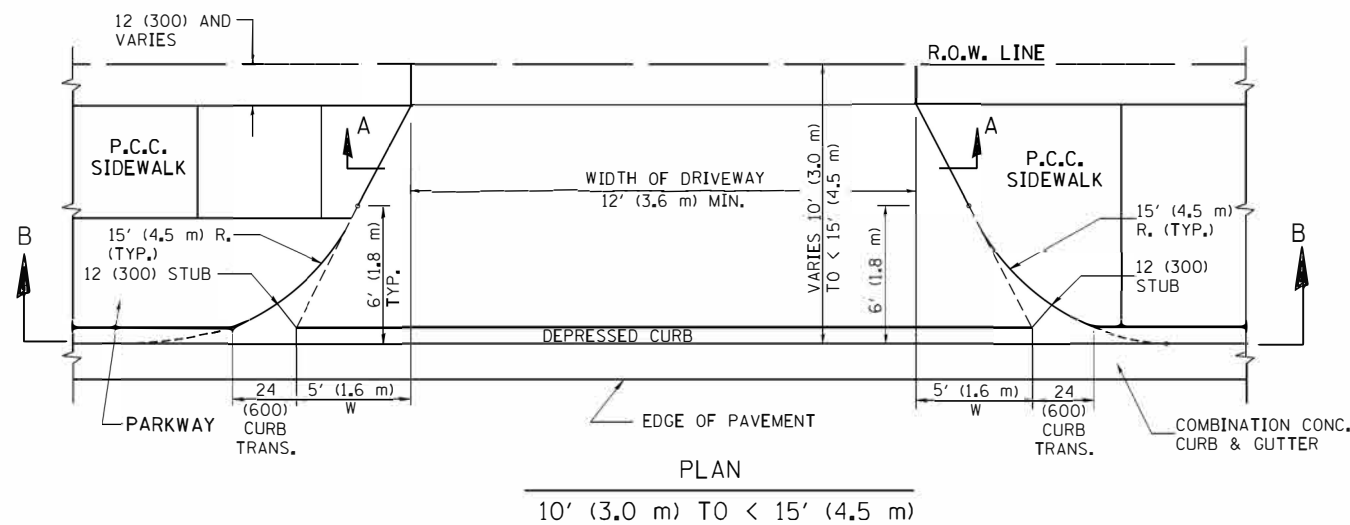
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**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.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	101
BDD0156-07 (BD-01)			CONTRACT NO. 61E48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

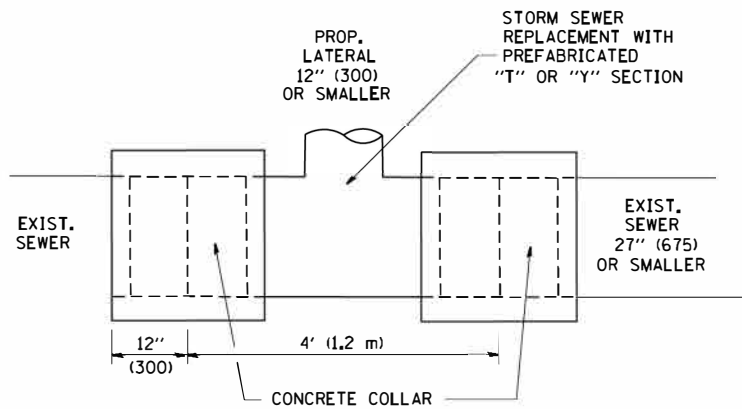
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	PLOT DATE = 10/28/2011	DATE = 11-06-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

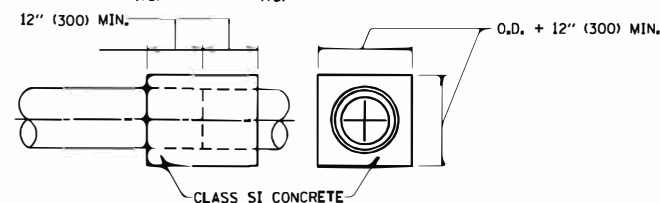
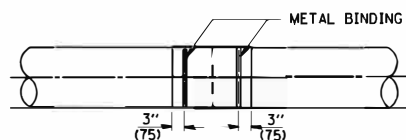
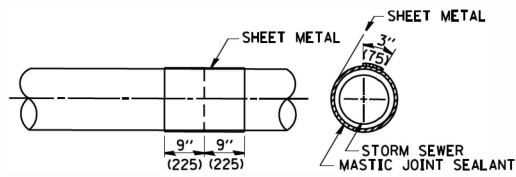
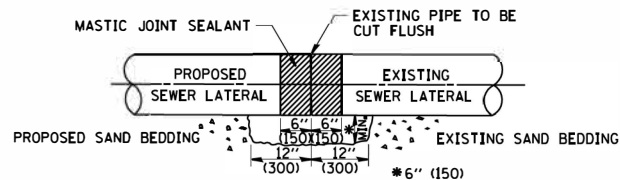
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	102
BD400-02 (BD-02)		CONTRACT NO. 61 E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

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

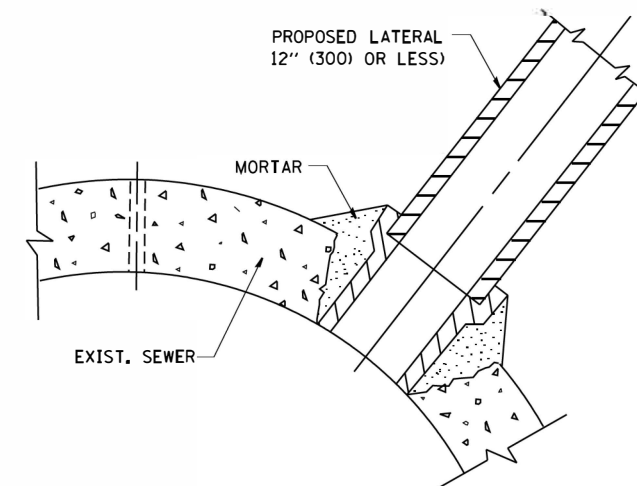


DETAIL "B"

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.



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.

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

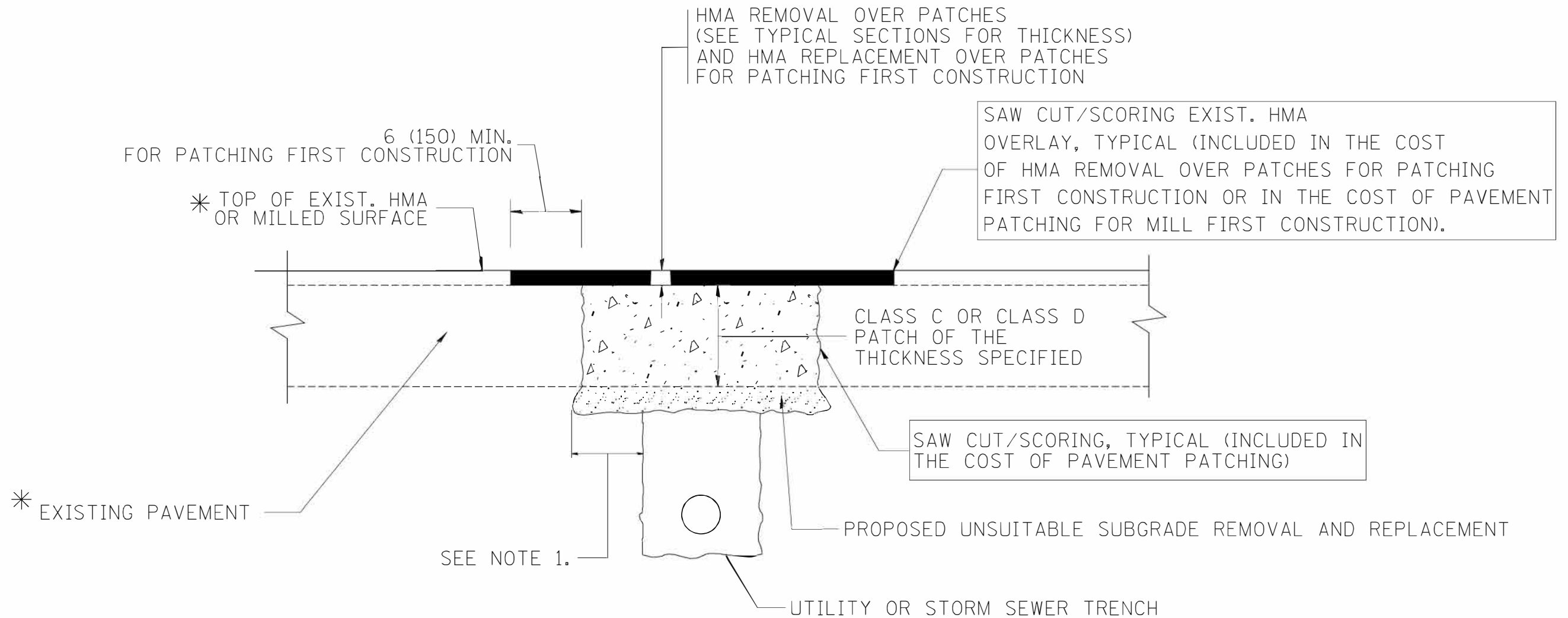
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	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	103
BD500-01 (BD-7)		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07			1709	12-00069-00-CH	COOK	131	104
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 61E48		
		DATE - 10-25-94	REVISED - K. ENG 10-27-08			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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.

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

18" (450) MAX.

1/4" (5) **

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).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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".

* 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.

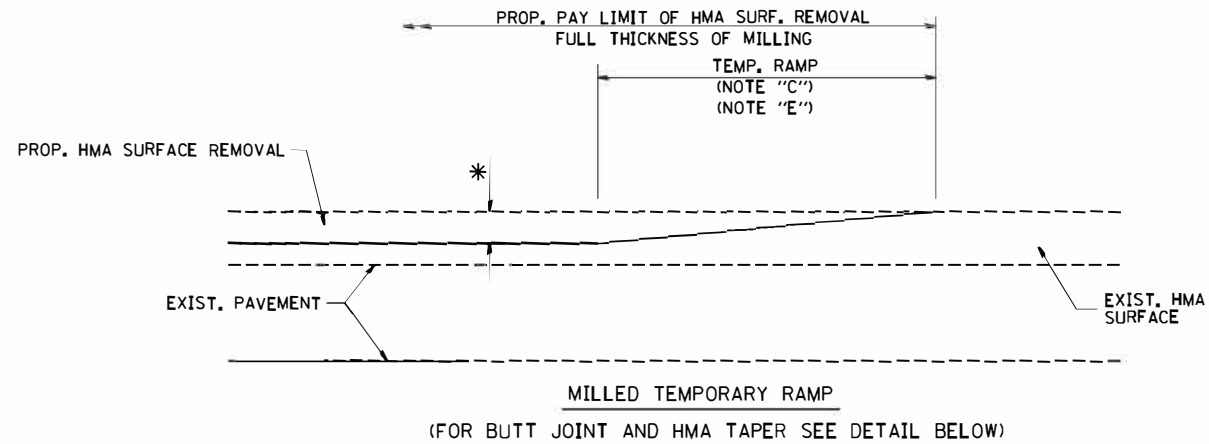
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

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.

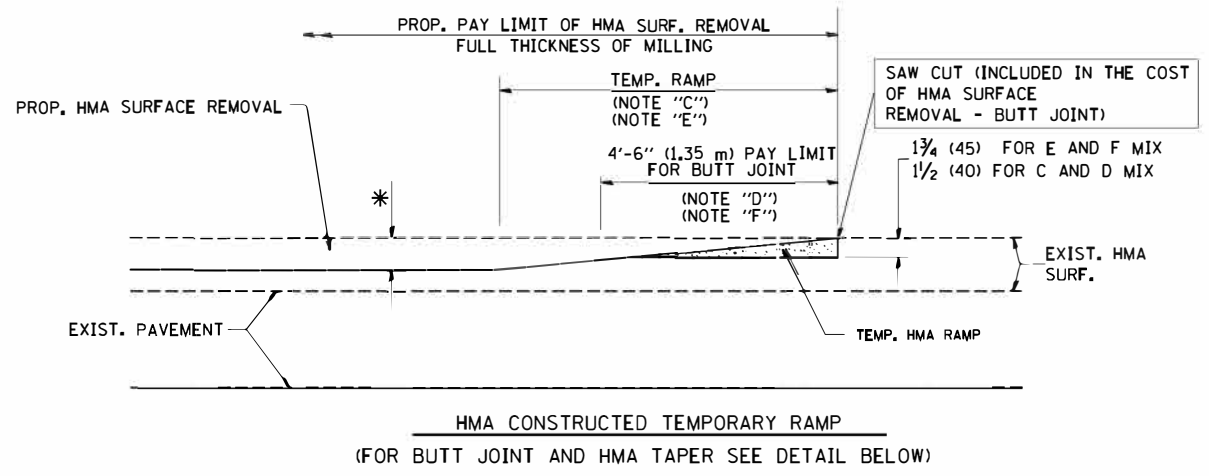
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

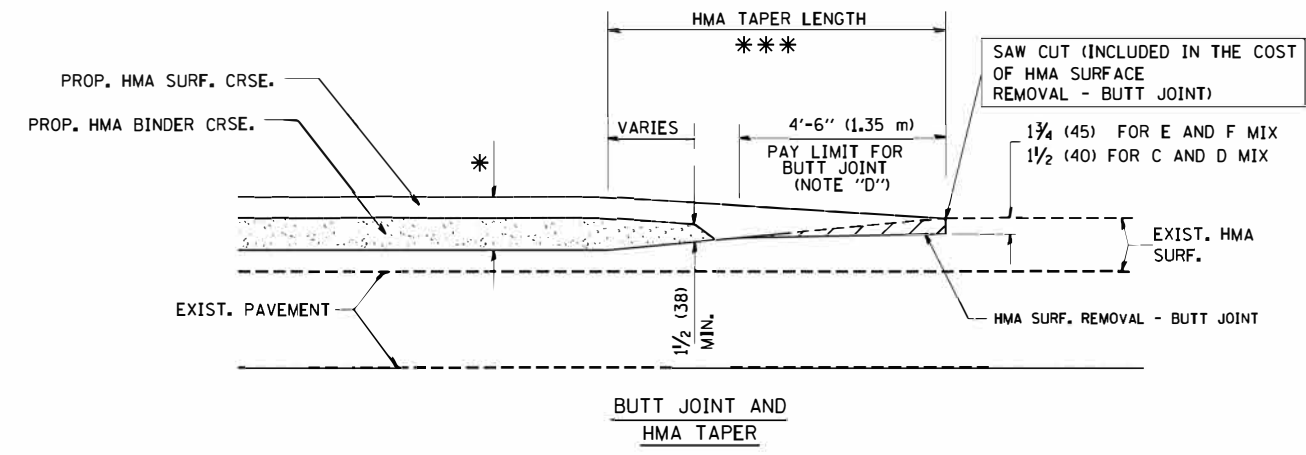
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		PLOT SCALE = 50.0000' / 1"	REVISED - M. GOMEZ 01-22-01		BD600-06 (BD-24)			CONTRACT NO. 61E48				
		PLOT DATE = 12/15/2009	DATE = 03-11-94		REVISED - R. BORO 12-15-09	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



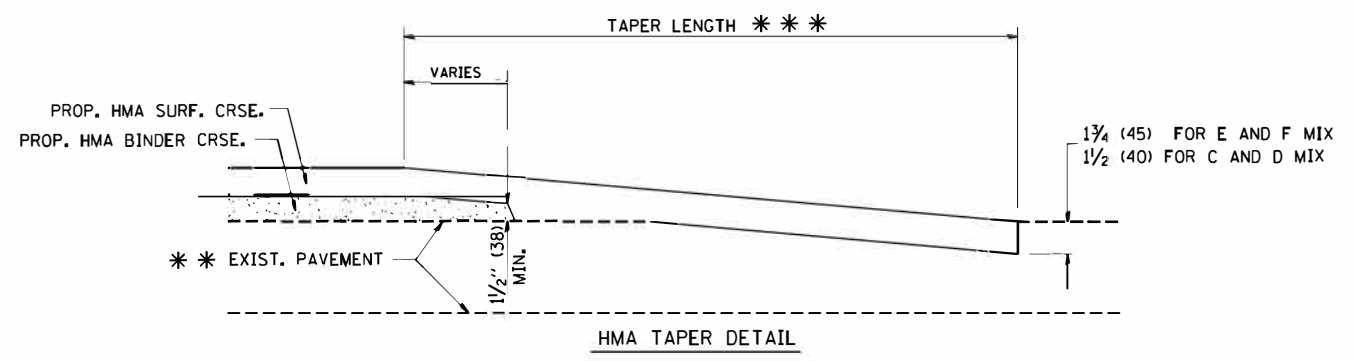
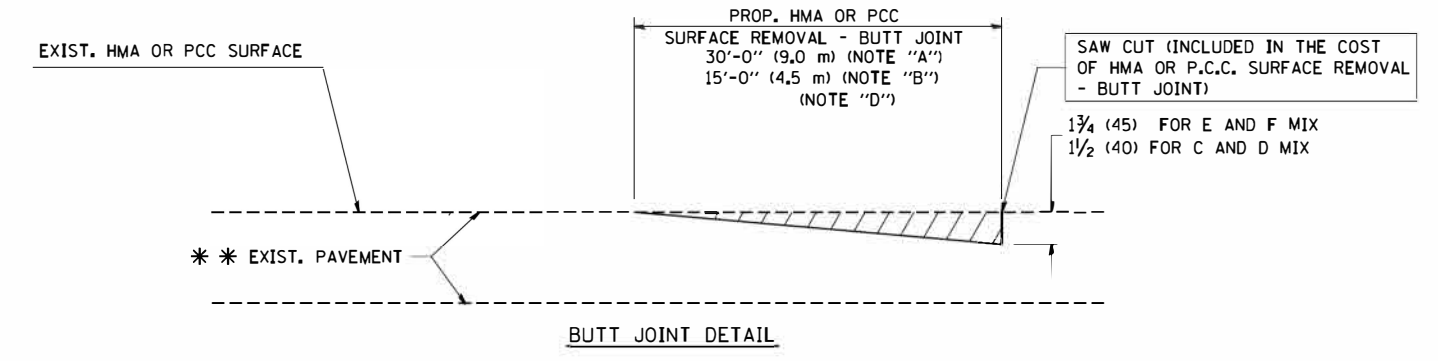
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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.

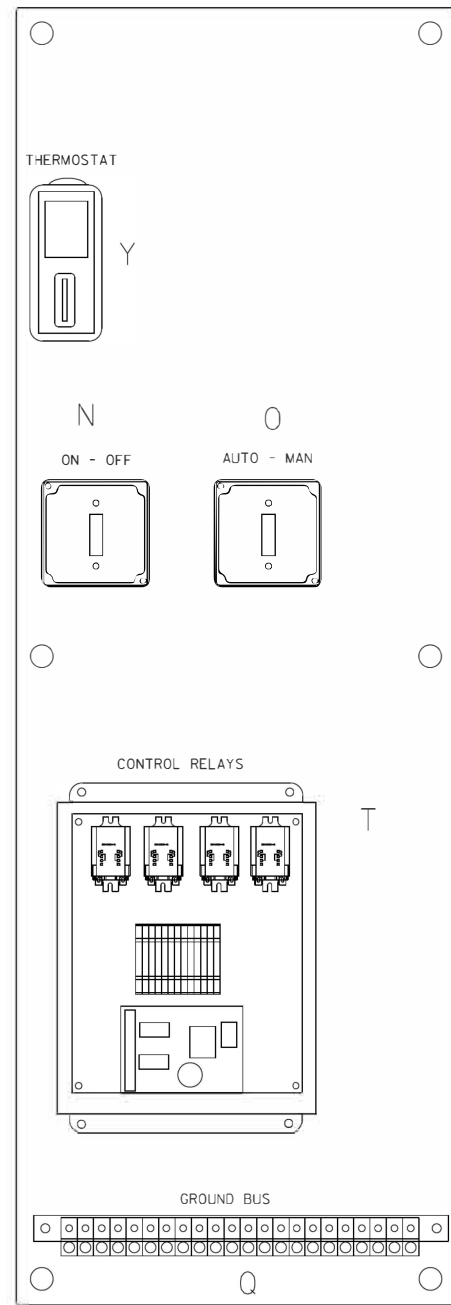
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DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
DRAWN -	REVISED - A. ABBAS 03-21-97
CHECKED -	REVISED - M. GOMEZ 04-06-01
DATE - 06-13-90	REVISED - R. BORO 01-01-07

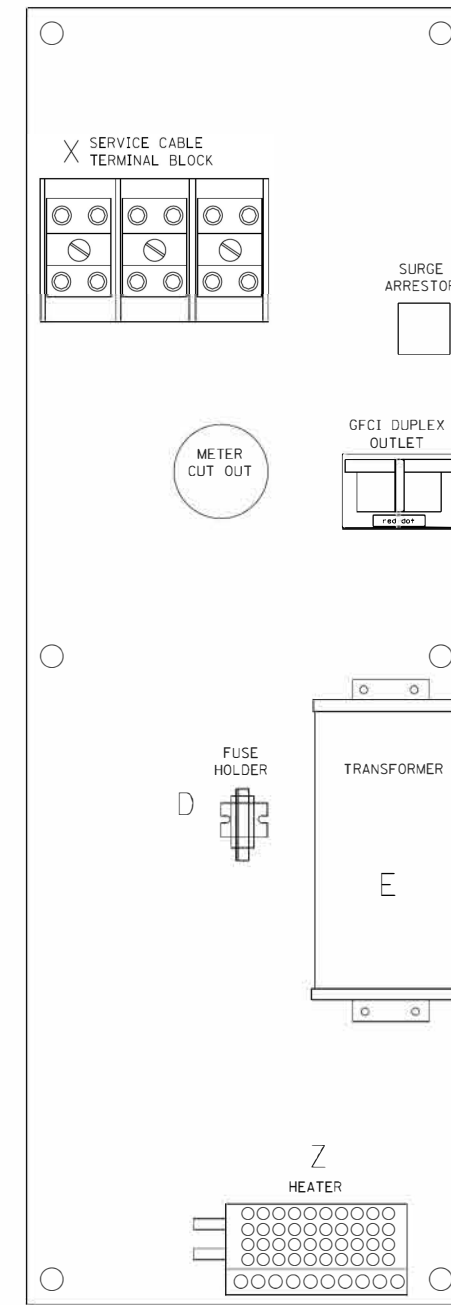
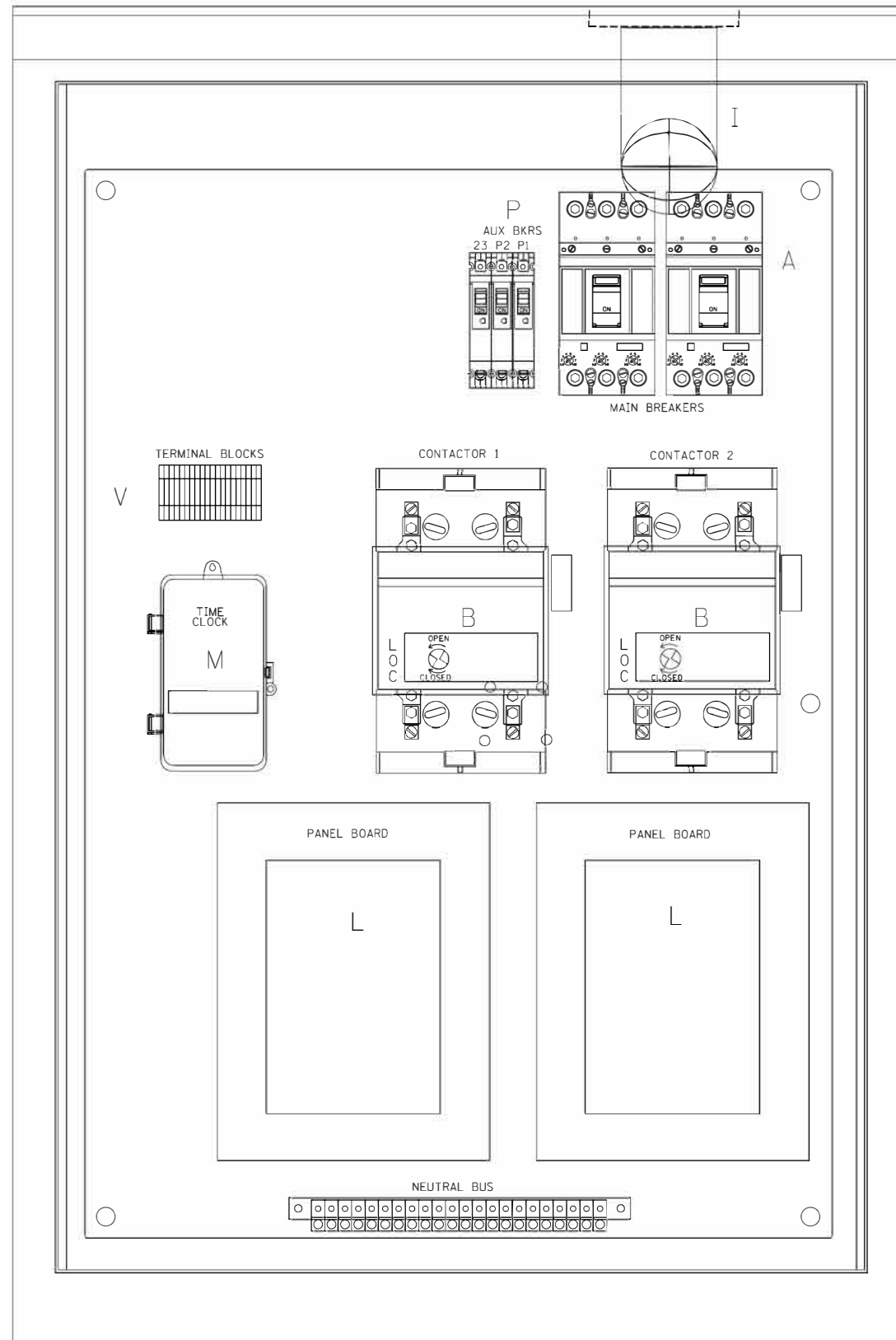
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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.
1709	12-00069-00-CH	COOK	131	106
BD400-05 BD32		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM #	QTY	DESCRIPTION
A	2	MAIN BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	2	MECHANICAL CONTRACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	2.0 KVA 277V-240/120 TRANSFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
P3	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

*

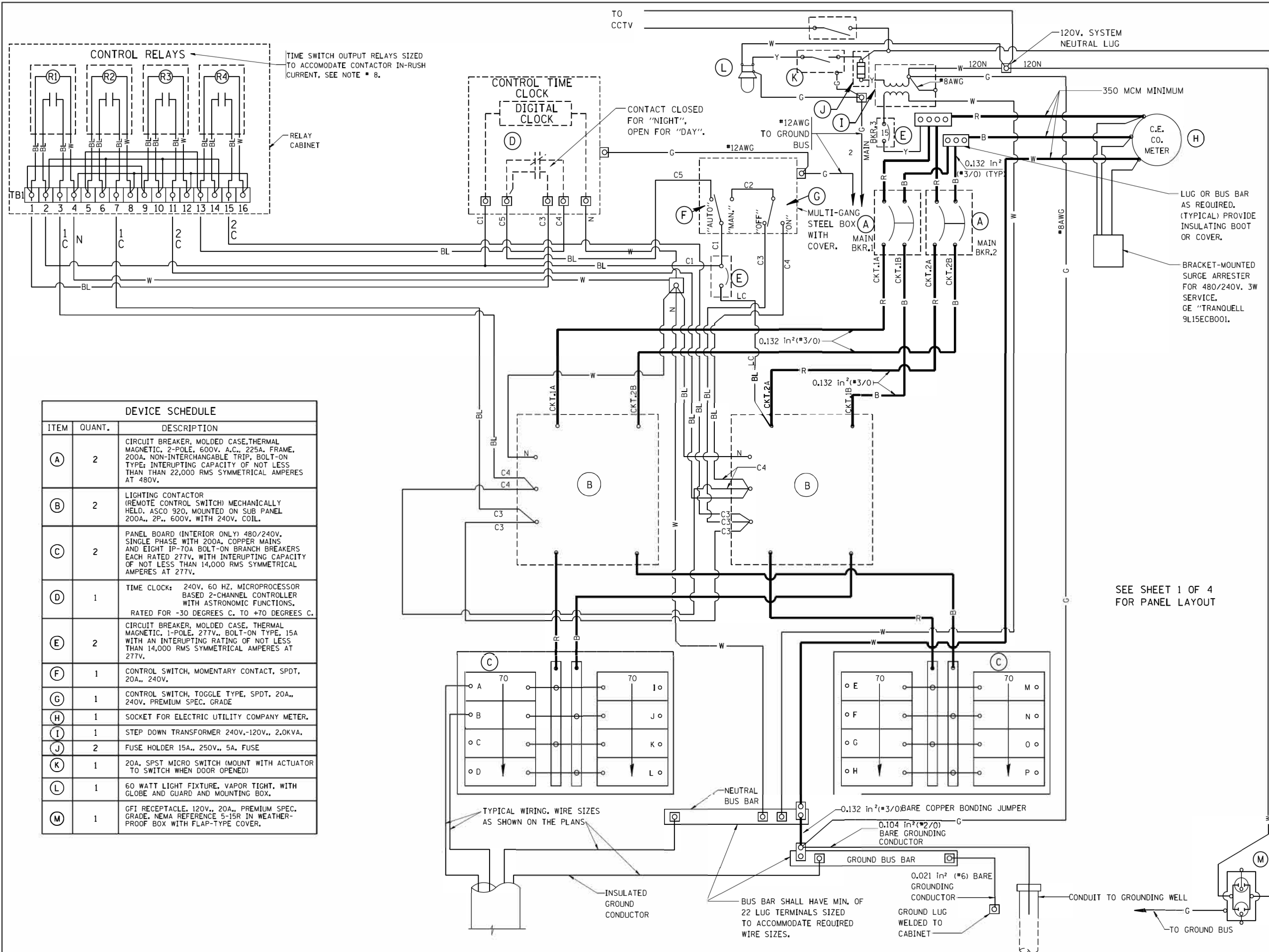
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		CHECKED -	REVISED -
		DATE - 12-18-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL)

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	107
E-200 (BE-200)		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF-STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
 - SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
 - CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A. FRAME, 200A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND EIGHT IP-70A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS, RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15A WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 2.0KVA.
(J)	2	FUSE HOLDER 15A., 250V., 5A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE, NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

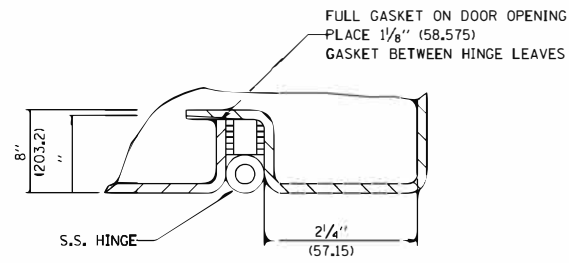
SEE SHEET 1 OF 4 FOR PANEL LAYOUT

FILE NAME =	USER NAME = drvakosgn	DESIGNED - G. BRATKIV	REVISED - M. BURNS 07-25-91
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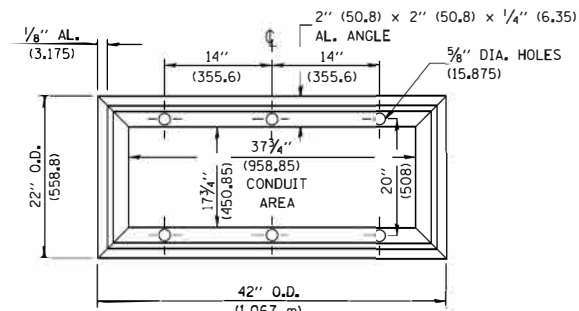
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING CONTROLLER, BASE MOUNTED 480 VOLT, 200 AMP, (DUAL)	
SCALE: NONE	SHEET NO. 2 OF 4 SHEETS
STA.	TO STA.

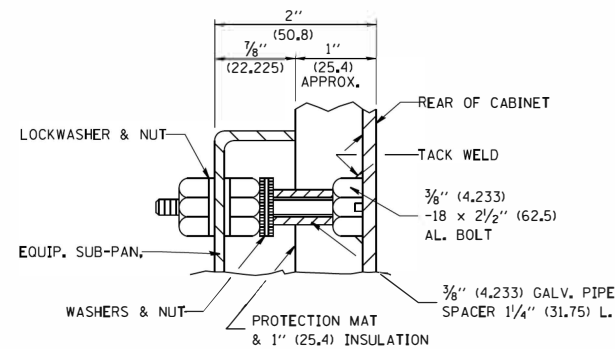
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	108
E-200 (BE-200)		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



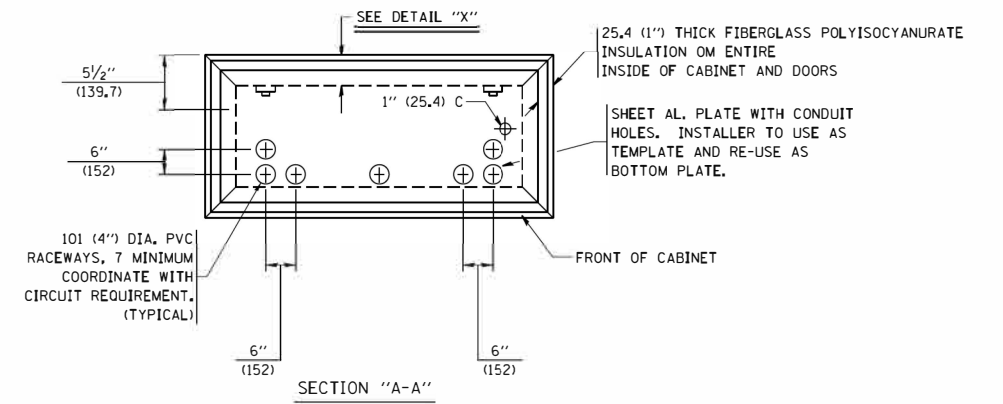
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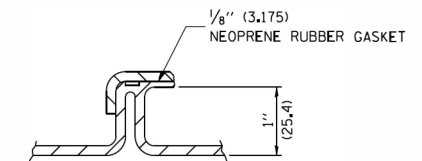
BASE MTG. DETAIL



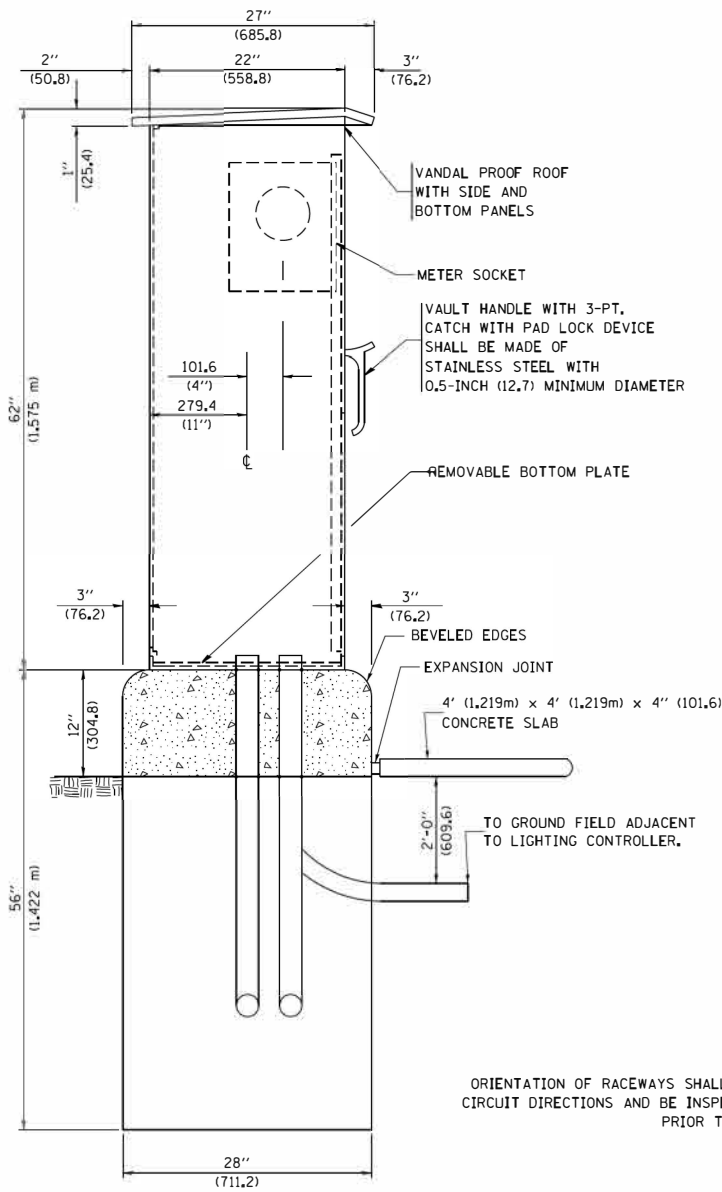
DETAIL "X"



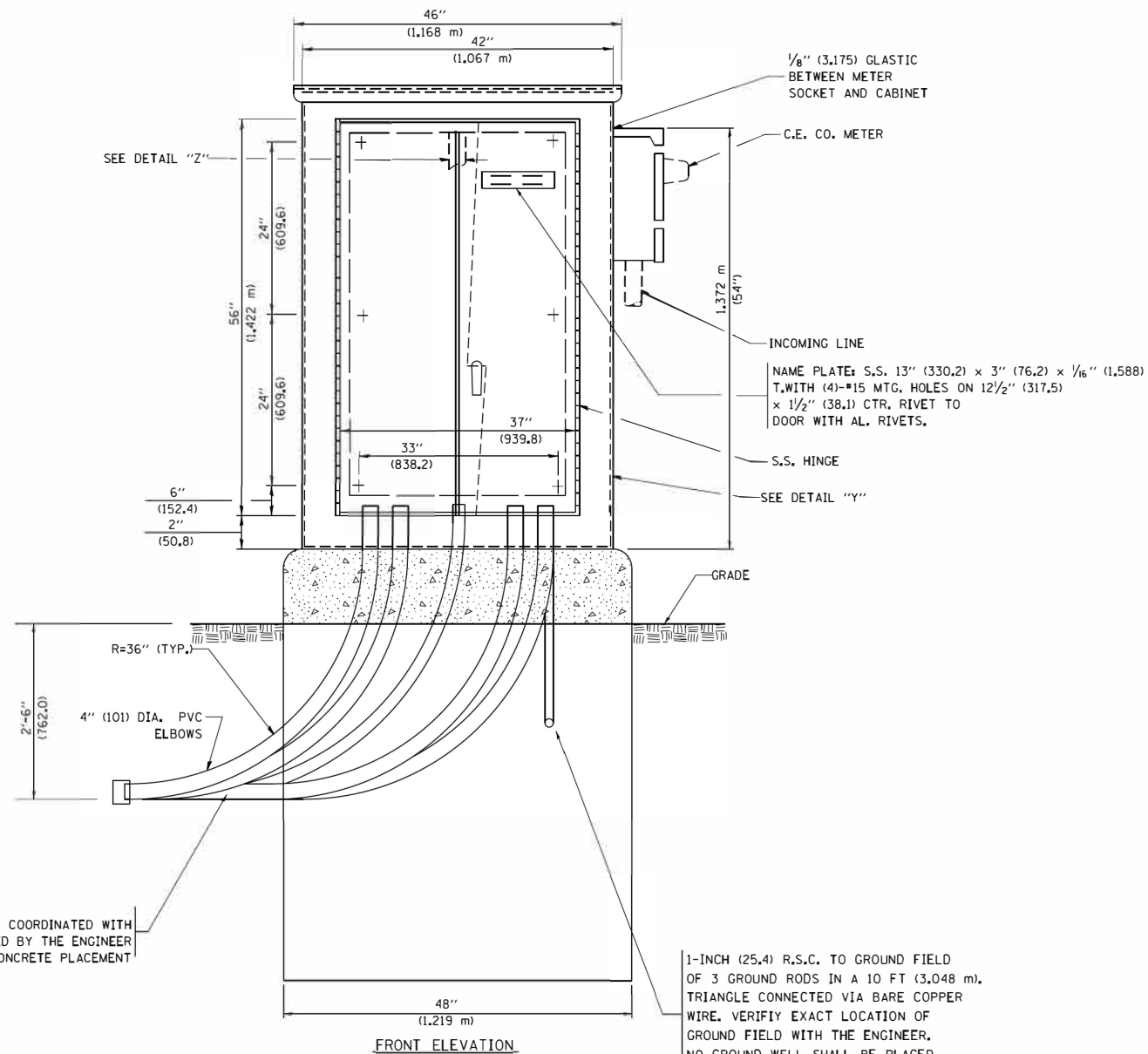
SECTION "A-A"



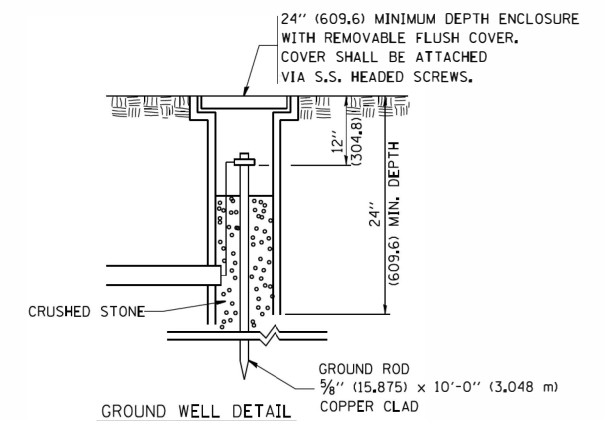
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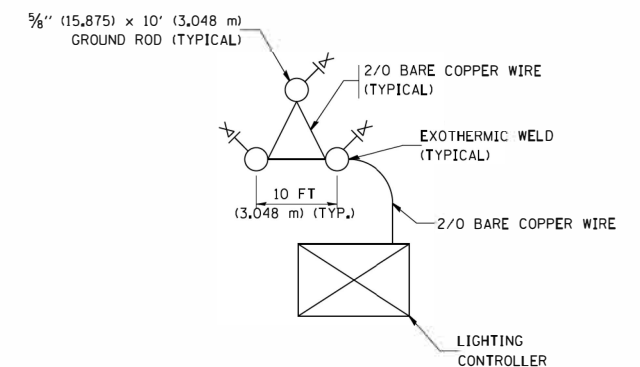
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

1-INCH (25.4) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3,048 m), TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

FILE NAME =	USER NAME = drvakosgn	DESIGNED -	REVISED - R. TOMSONS 03-29-12
ca:\pwork\p\dot\drvakosgn\d0108315\br20.dgn		DRAWN - CADD	REVISED -
		CHECKED -	REVISED -
		DATE - 12-18-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL)

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	109
E-200 (BE-200)			CONTRACT NO. 61E48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES

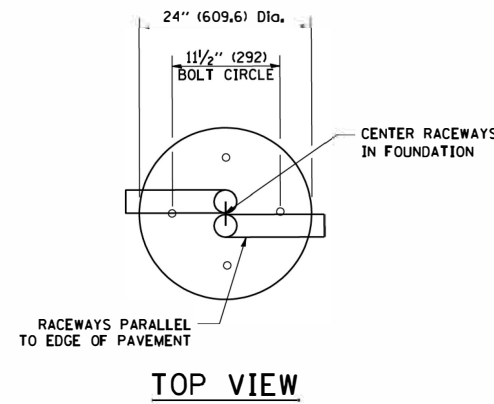
1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK; "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.
12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 R - RED Y - YELLOW
 B - BLACK W - WHITE
 BL- BLUE G - GREEN
19. ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.
21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.

E-200

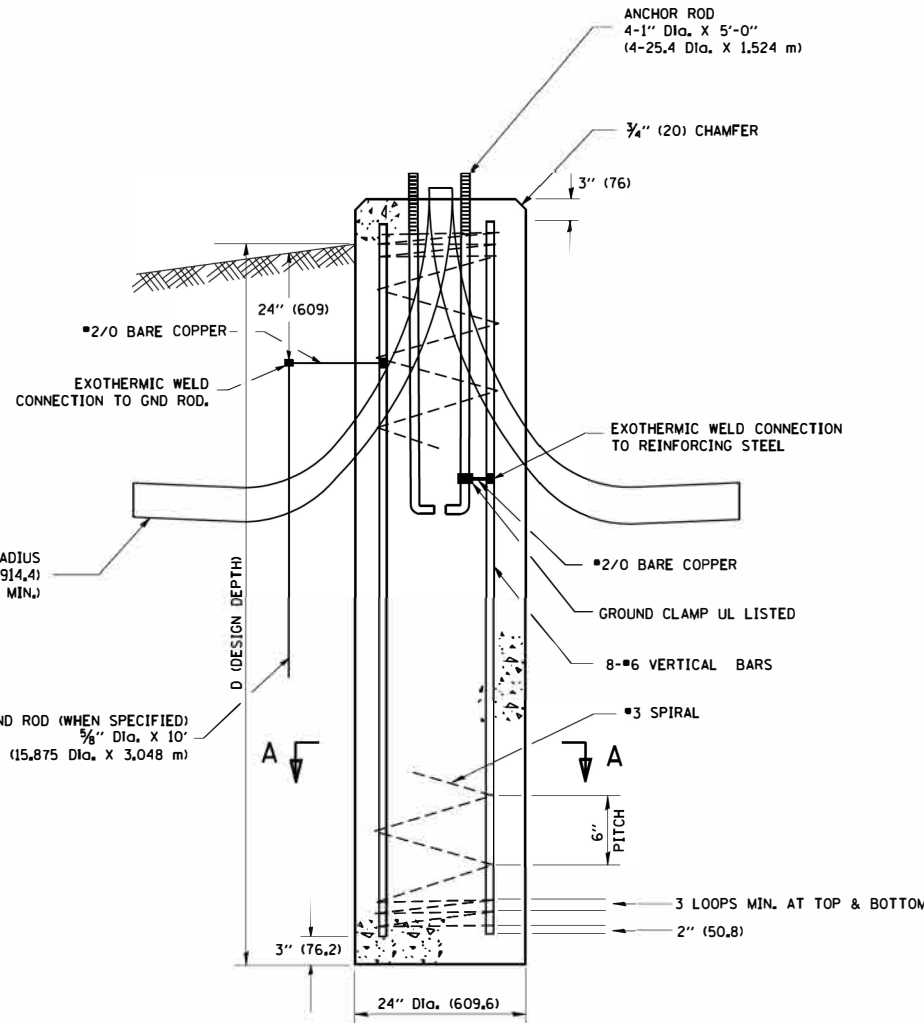
FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - R. TOMSONS 03-29-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED 480 VOLT, 200 AMP, (DUAL)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwork\pwork\drivakosgn\d0108315\be200.dgn	DRAWN - CADD	REVISED -				1709	12-00069-00-CH	COOK	131	110
PLOT SCALE = 50.00000 / in.	CHECKED -	REVISED -				E-200 (BE-200)		CONTRACT NO. 61E48		
PLOT DATE = 3/29/2012	DATE - 12-18-02	REVISED -				SCALE: NONE	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

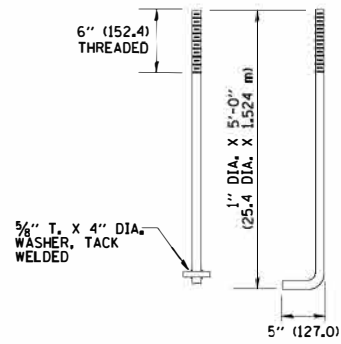
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



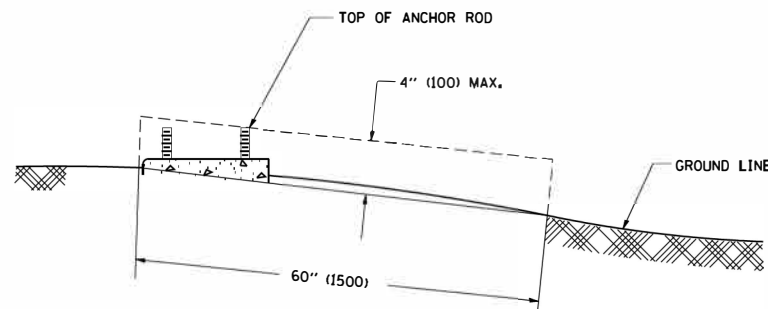
TOP VIEW



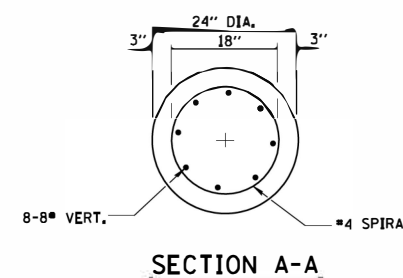
FOUNDATION DETAIL



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(G MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED. THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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PLOT DATE = 1/4/2009

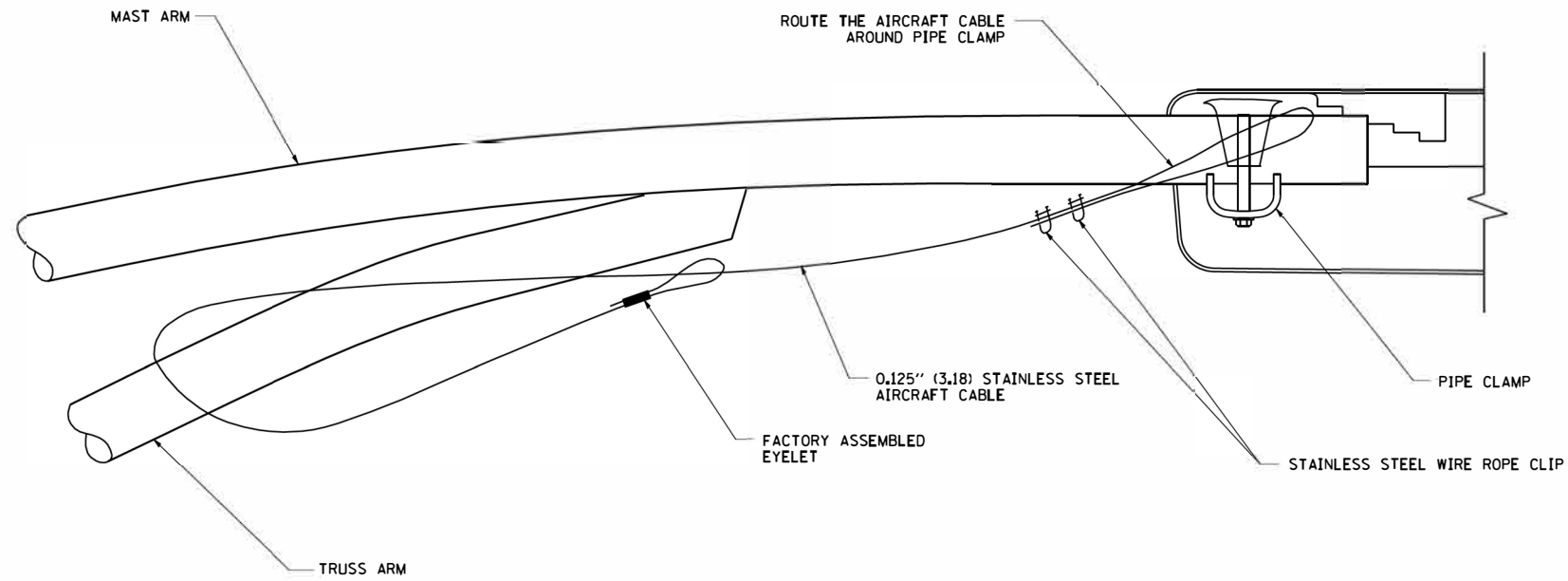
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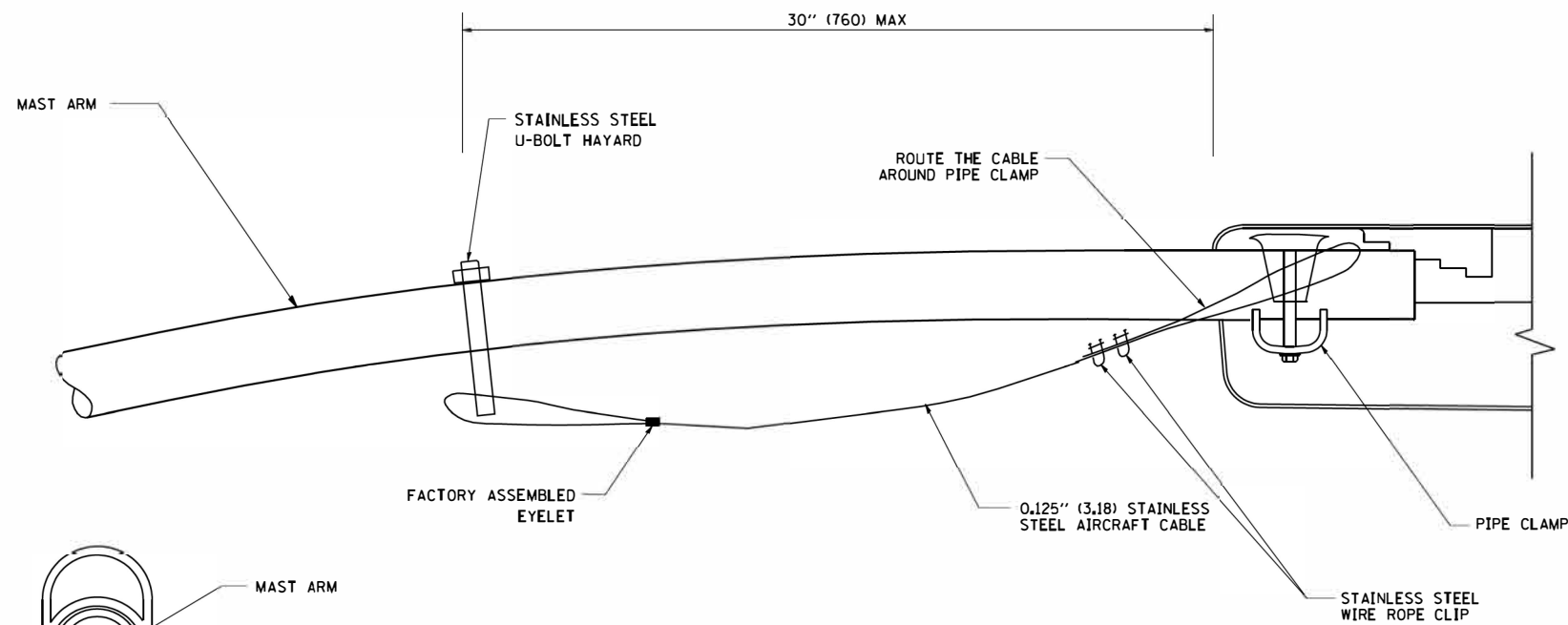
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

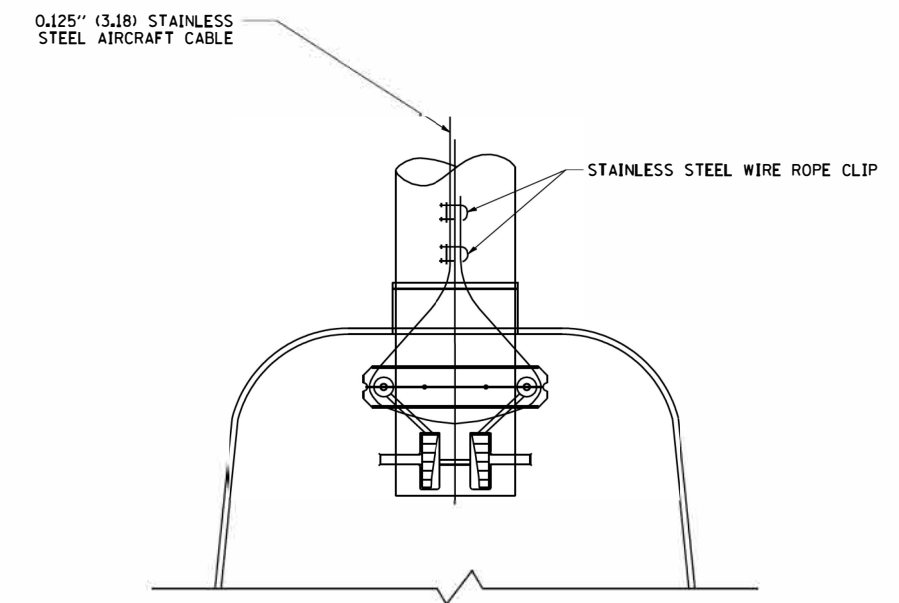
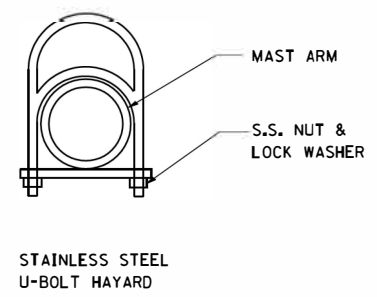
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	111
BE-300		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



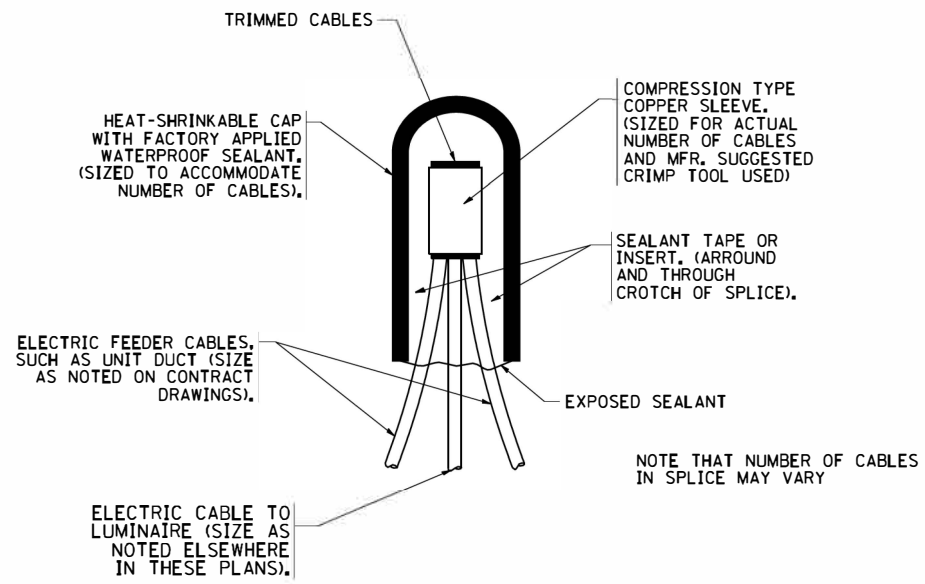
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

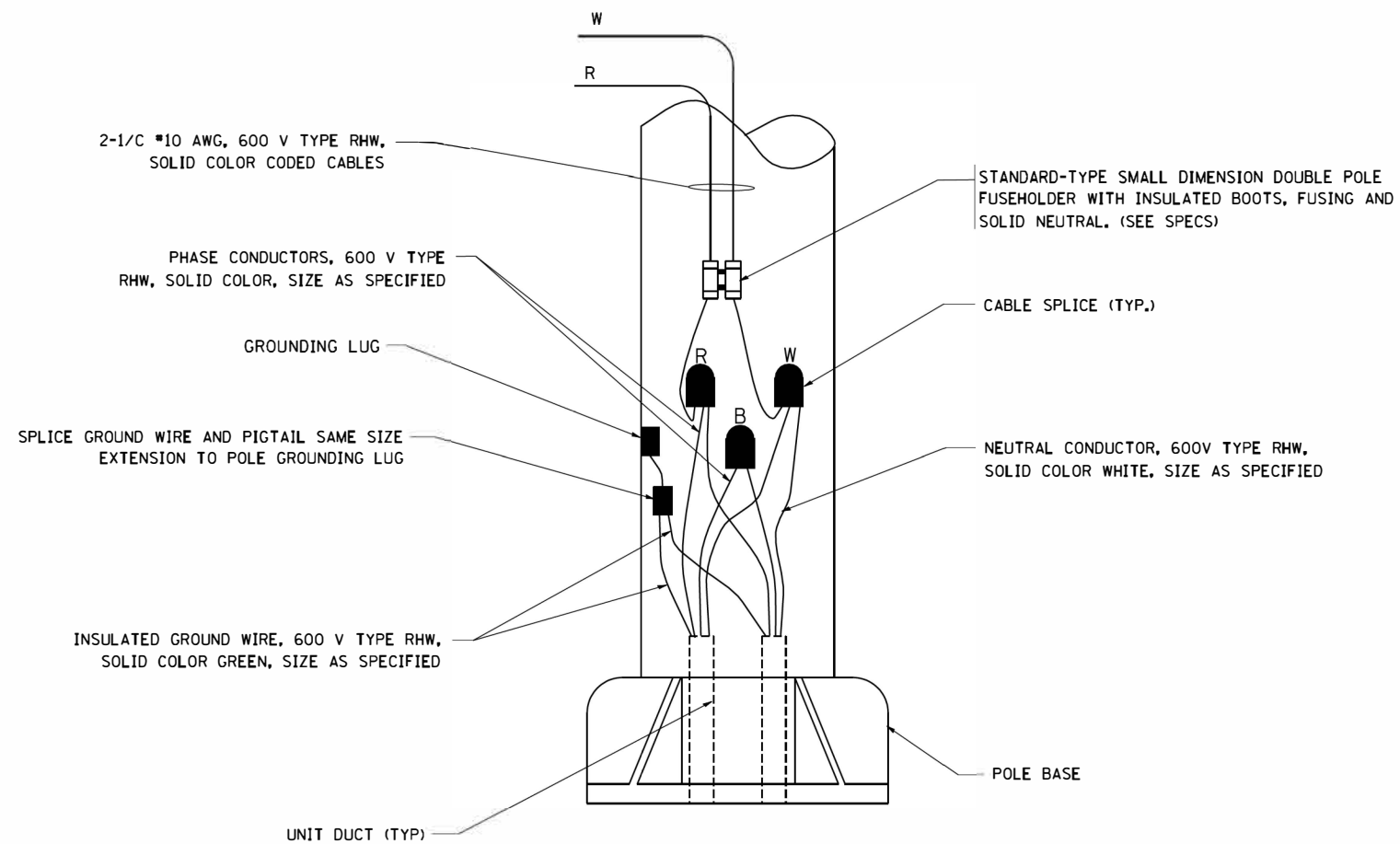
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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	PLOT DATE = 1/4/2008	CHECKED -	REVISOR -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISOR -									



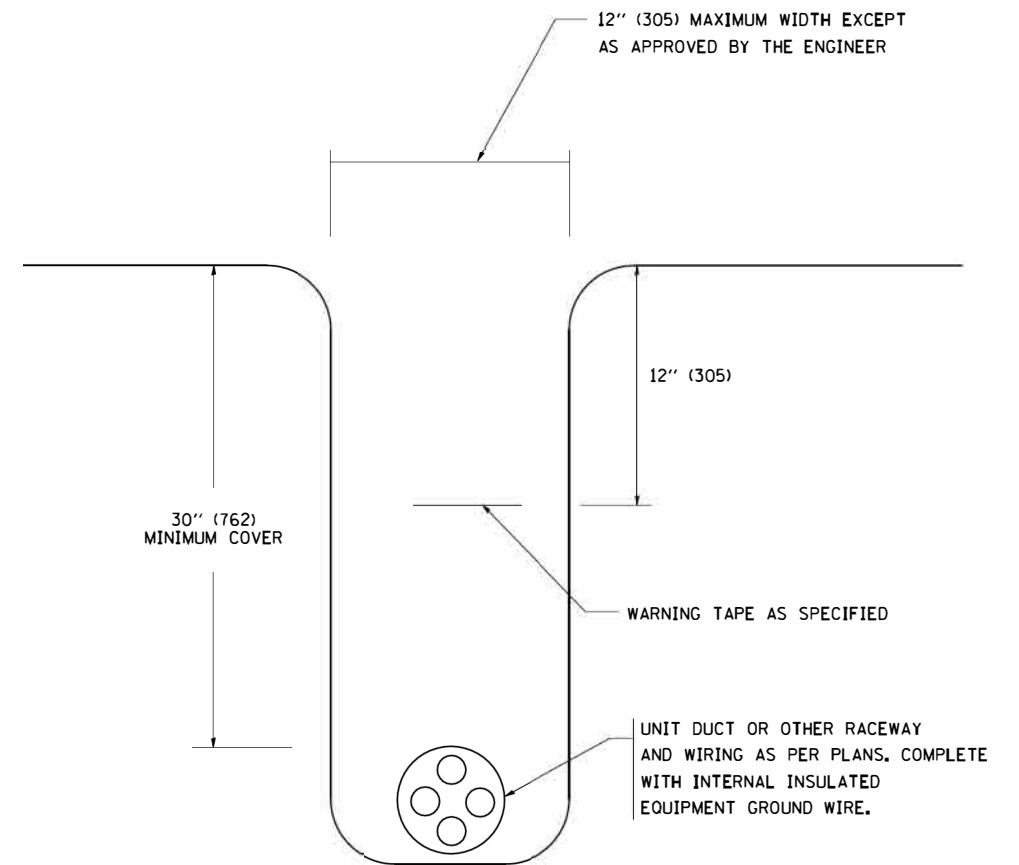
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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DATE -

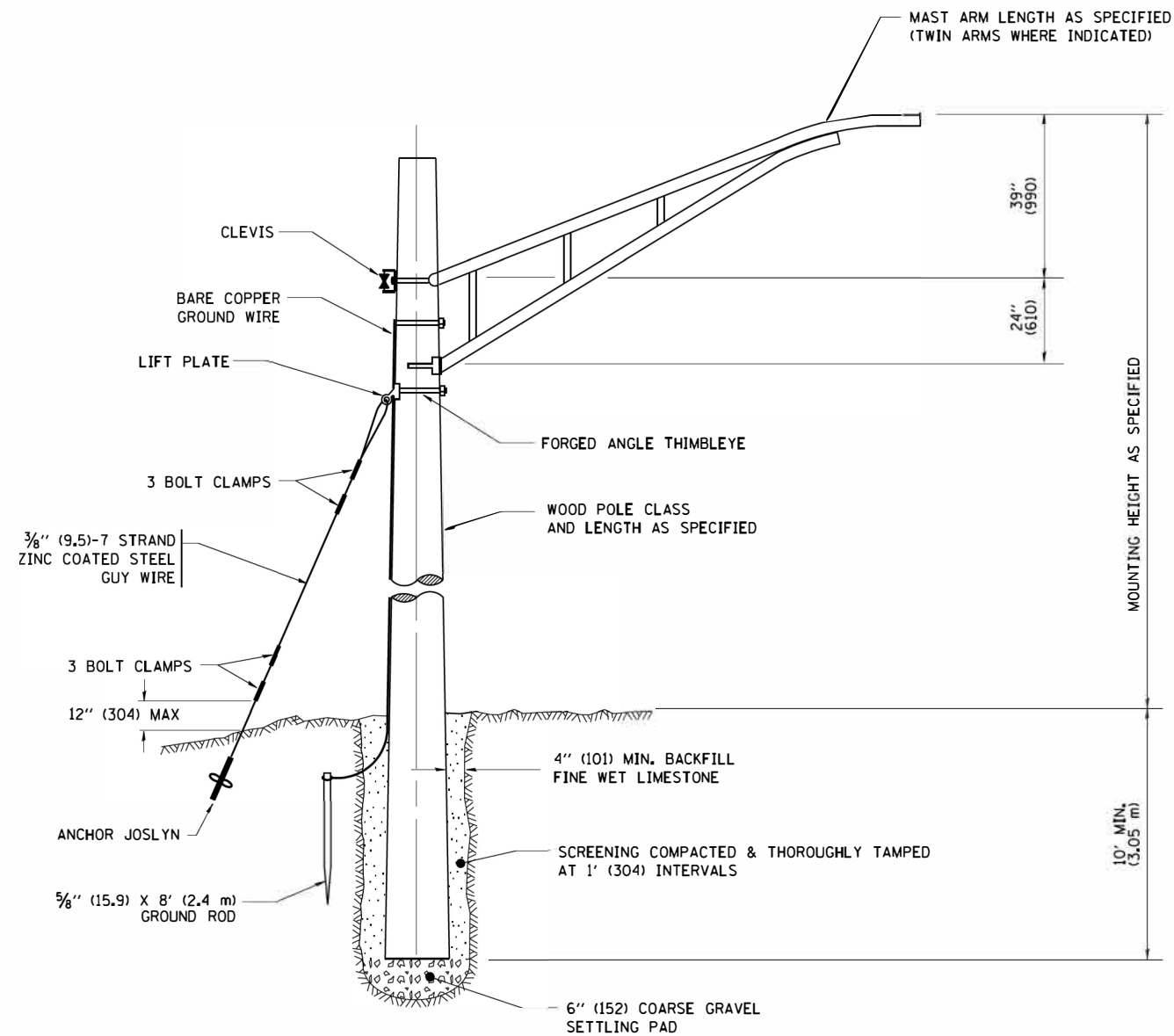
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DATE -

REVISED - 08-08-03
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REVISED -

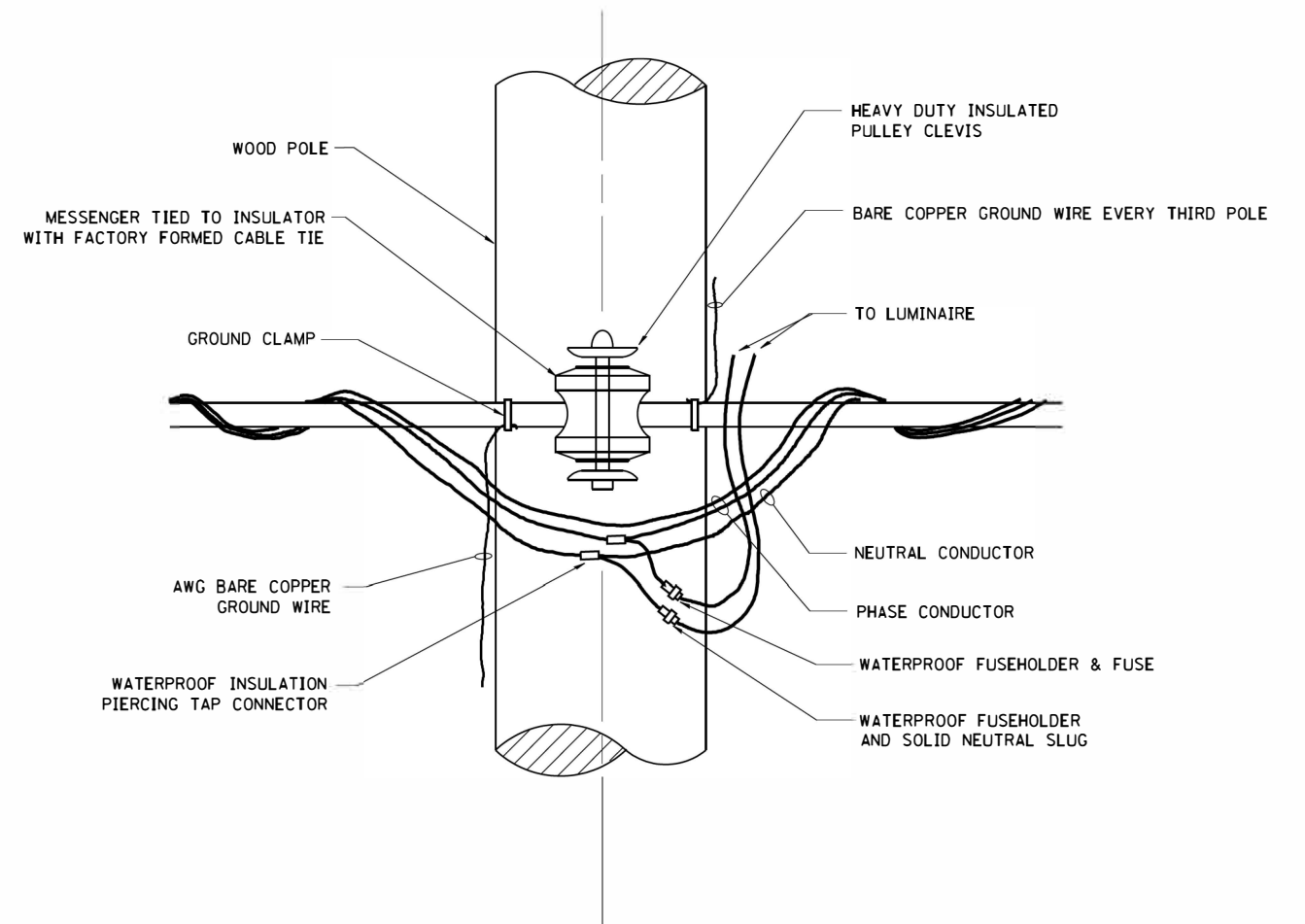
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A
SCALE: NONE
SHEET NO. 1 OF 1 SHEETS
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	113
BE-702		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

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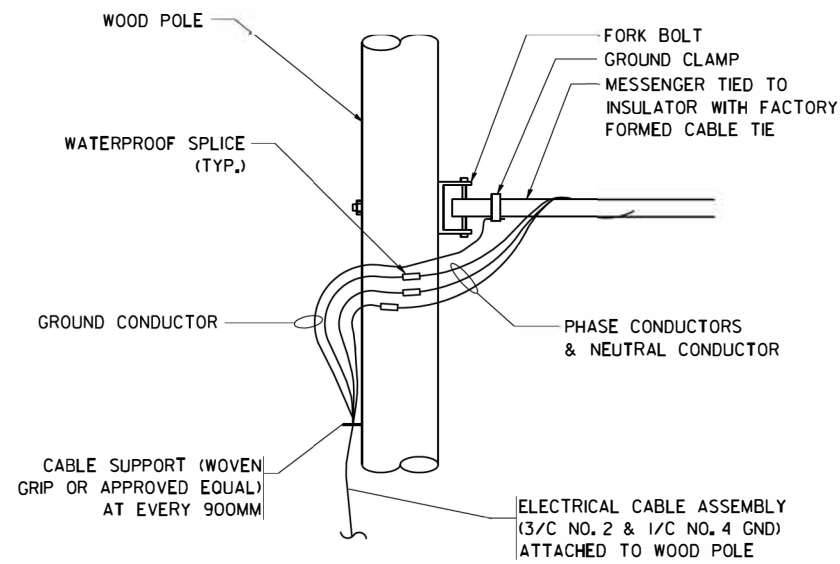
REVISED - 08-08-03
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

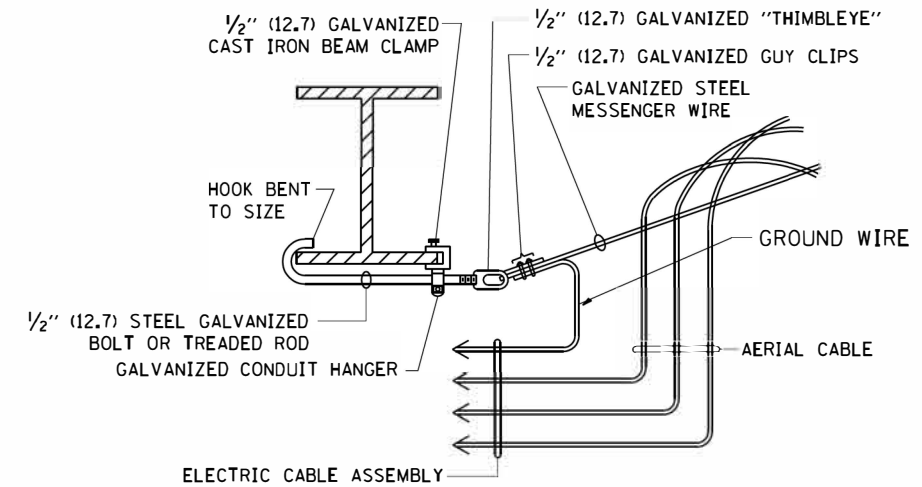
TEMPORARY LIGHT POLE DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	114
BE-800		CONTRACT NO. 61E48		
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



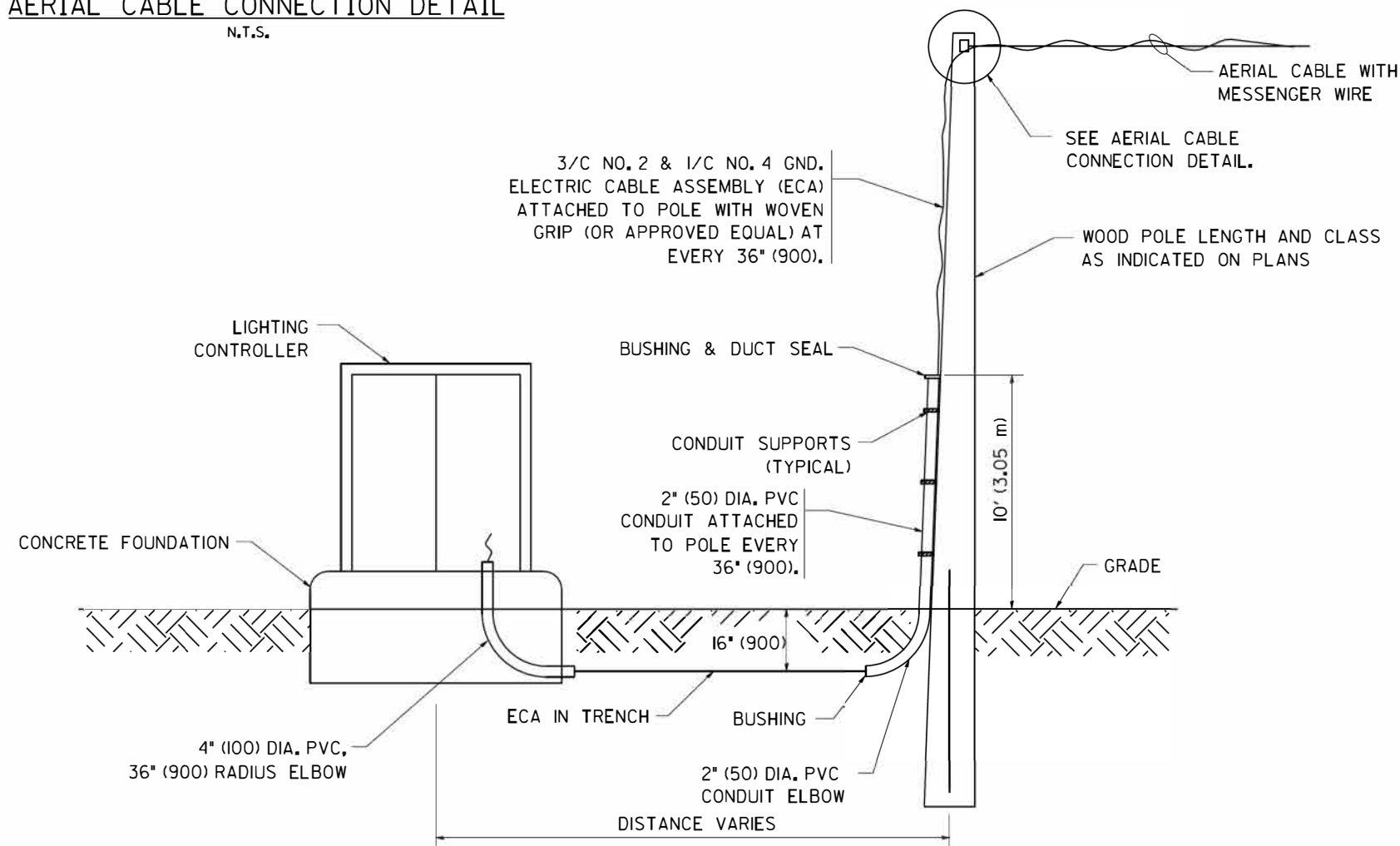
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

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PLOT DATE = 1/4/2008

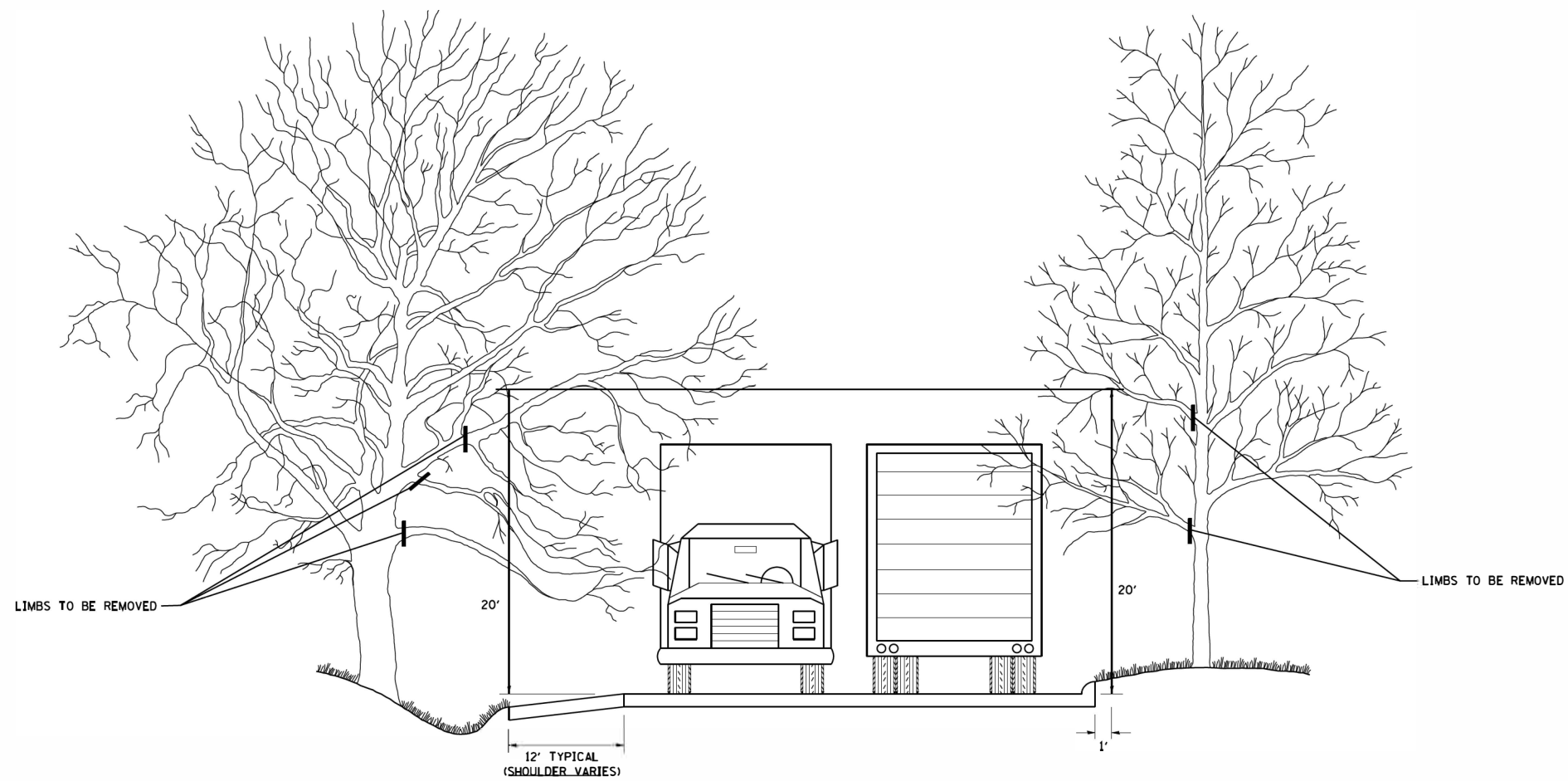
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	115
BE-801		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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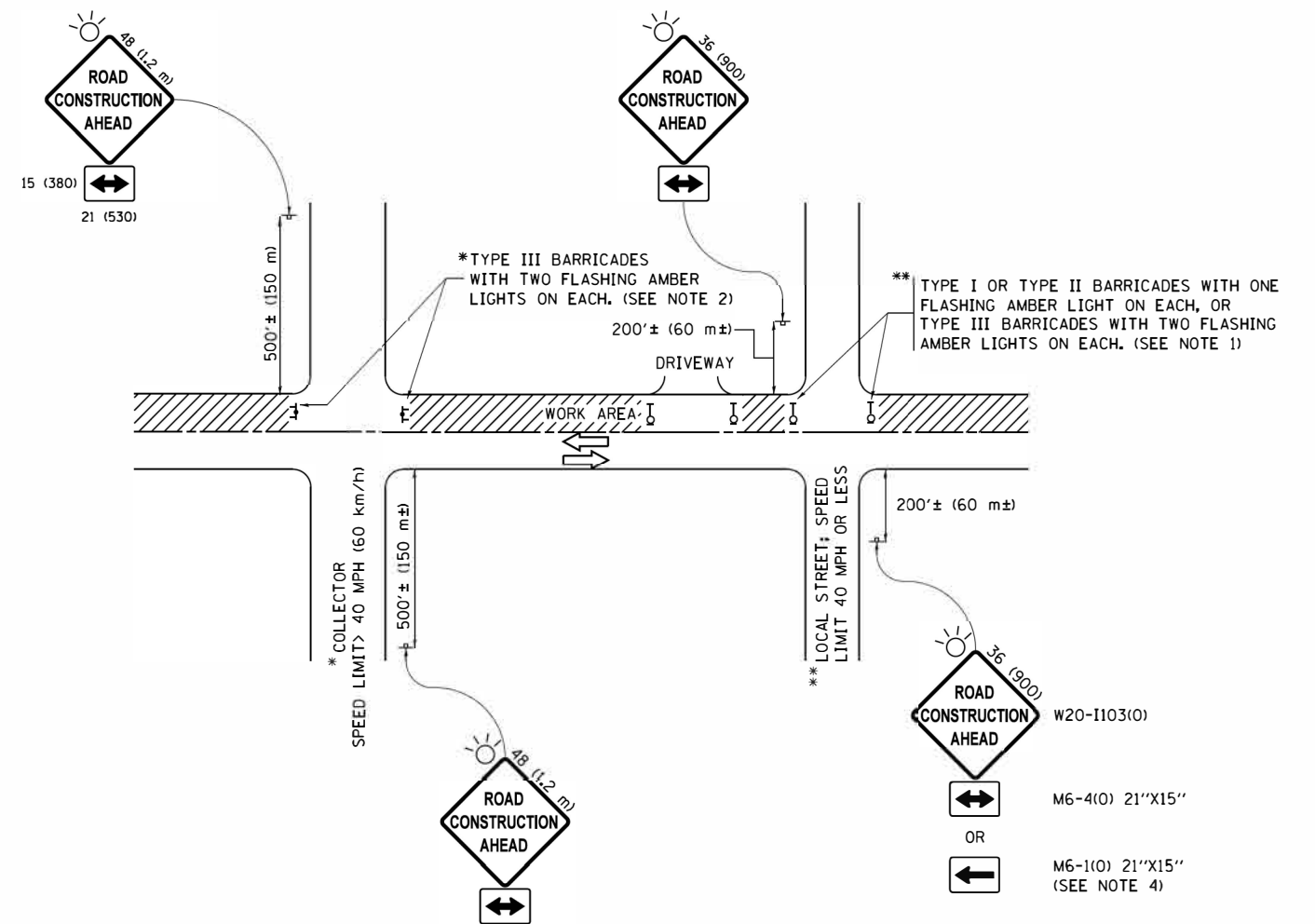
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
EQUIPMENT CLEARANCE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	116
BM-20			CONTRACT NO. 61E48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

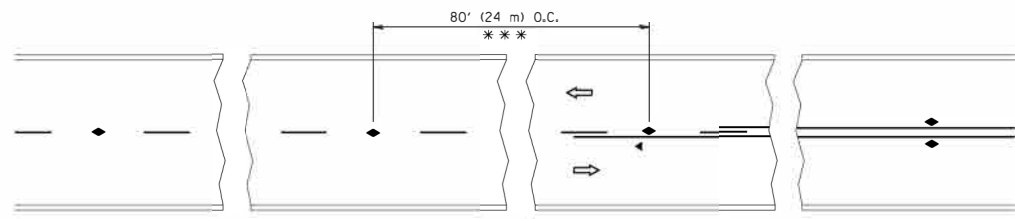
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Default	PLOT SCALE = 50,000' / 1" =	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

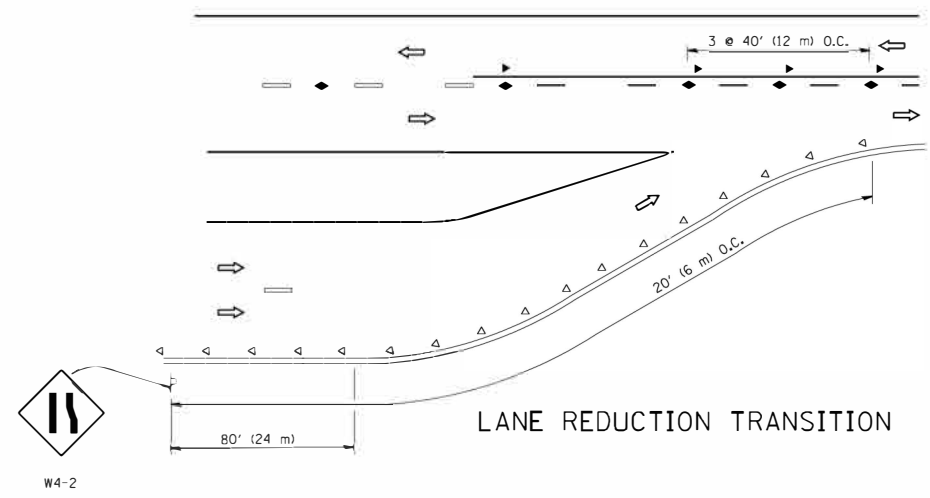
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	117
TC-10			CONTRACT NO. 61E48	
ILLINOIS FED. AID PROJECT				

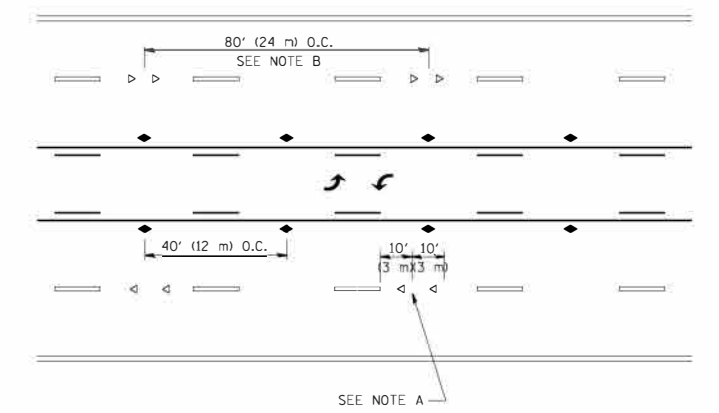


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

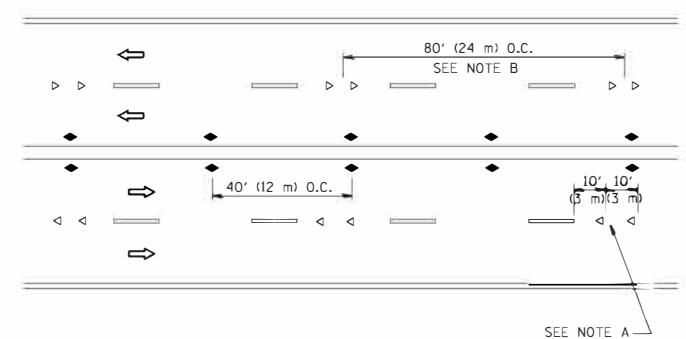
TWO-LANE/TWO-WAY



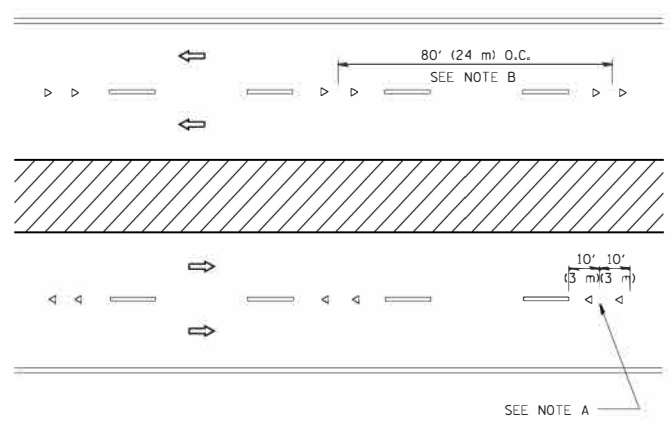
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

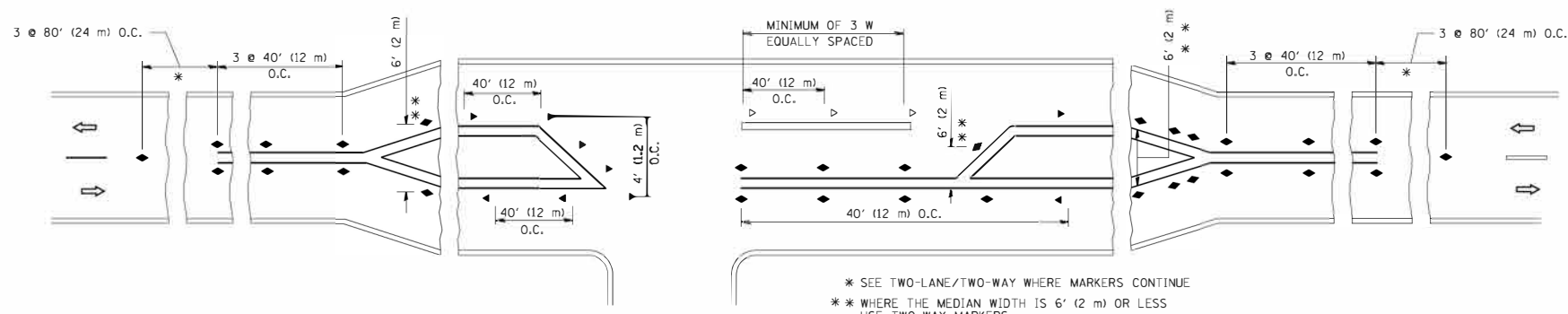
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- < ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

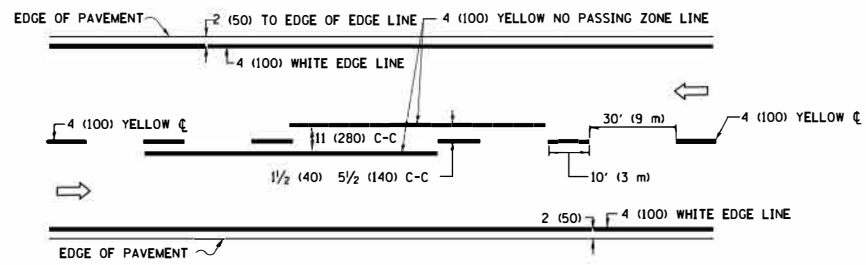
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



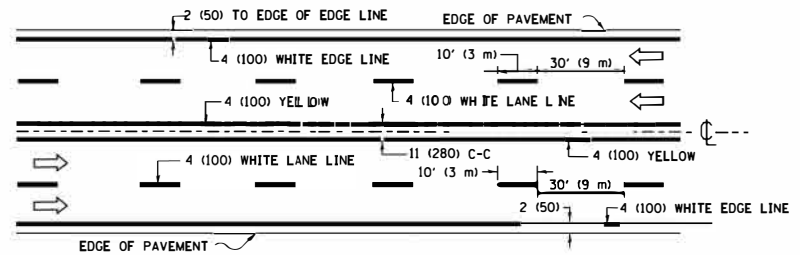
LEFT TURN

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

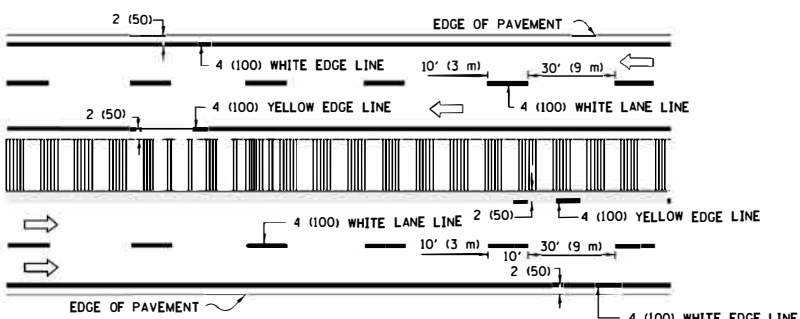
FILE NAME =	USER NAME = lejso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\1\ejso\ad0108315\td11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99					1709	12-00069-00-CH	COOK	131	118
		PLOT SCALE = 50.000' / 1"	REVISED - T. RAMMACHER 01-06-00		TC-11			CONTRACT NO. 61E48				
		PLOT DATE = 3/2/2011	REVISED - C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

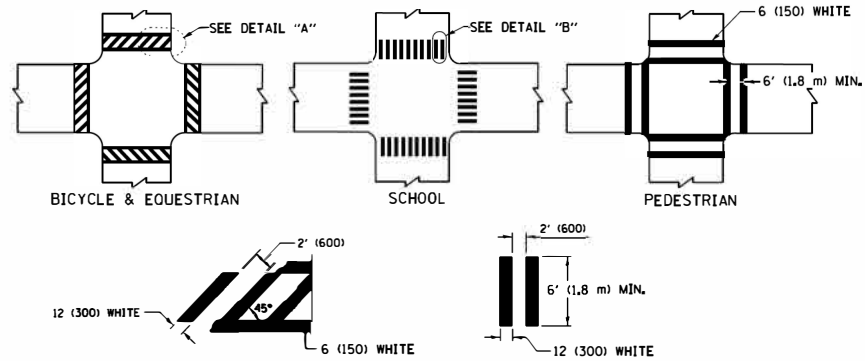


MULTI-LANE UNDIVIDED



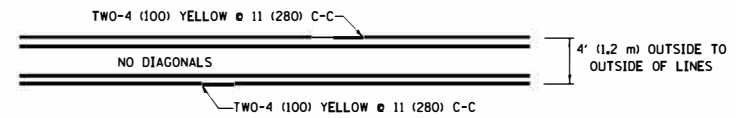
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

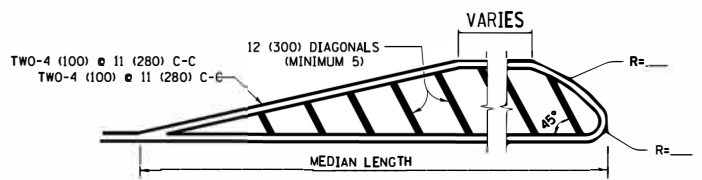


TYPICAL CROSSWALK MARKING

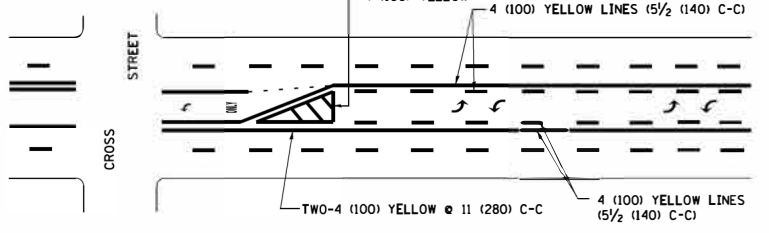
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



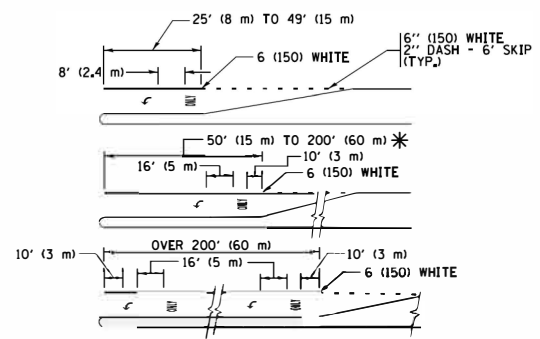
4' (1.2 m) WIDE MEDIANS ONLY



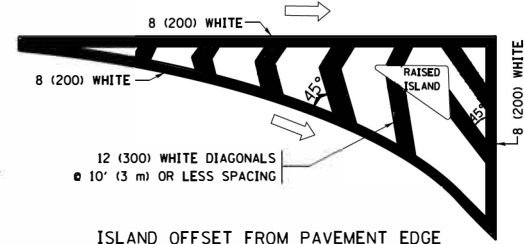
MEDIANS OVER 4' (1.2 m) WIDE



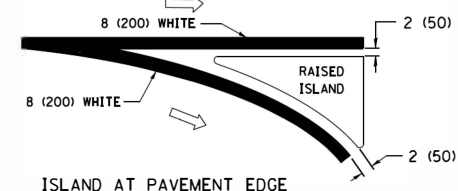
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



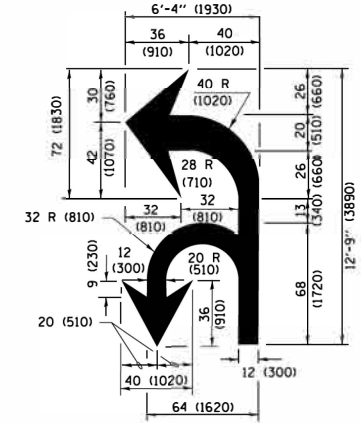
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



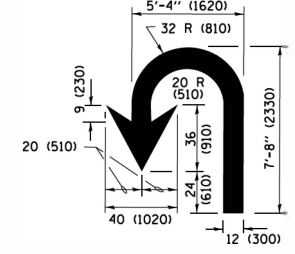
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

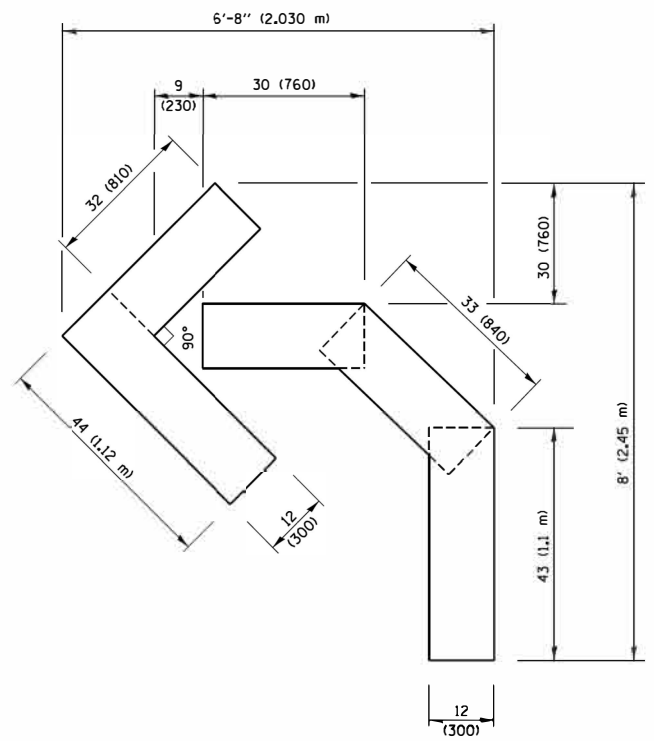
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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

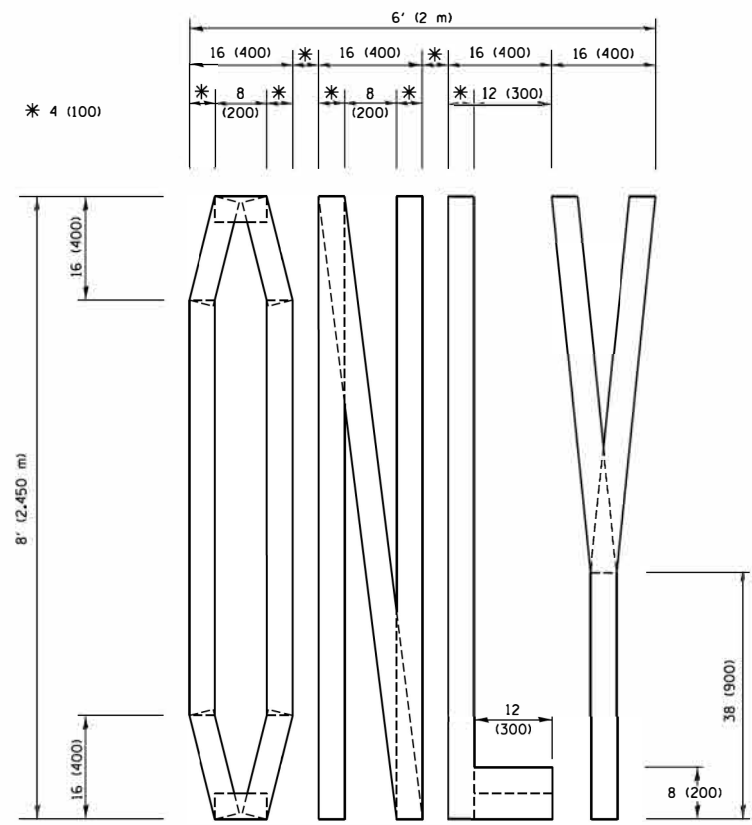
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' 6" (4.7 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78000! AREA OF "X"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 78000!

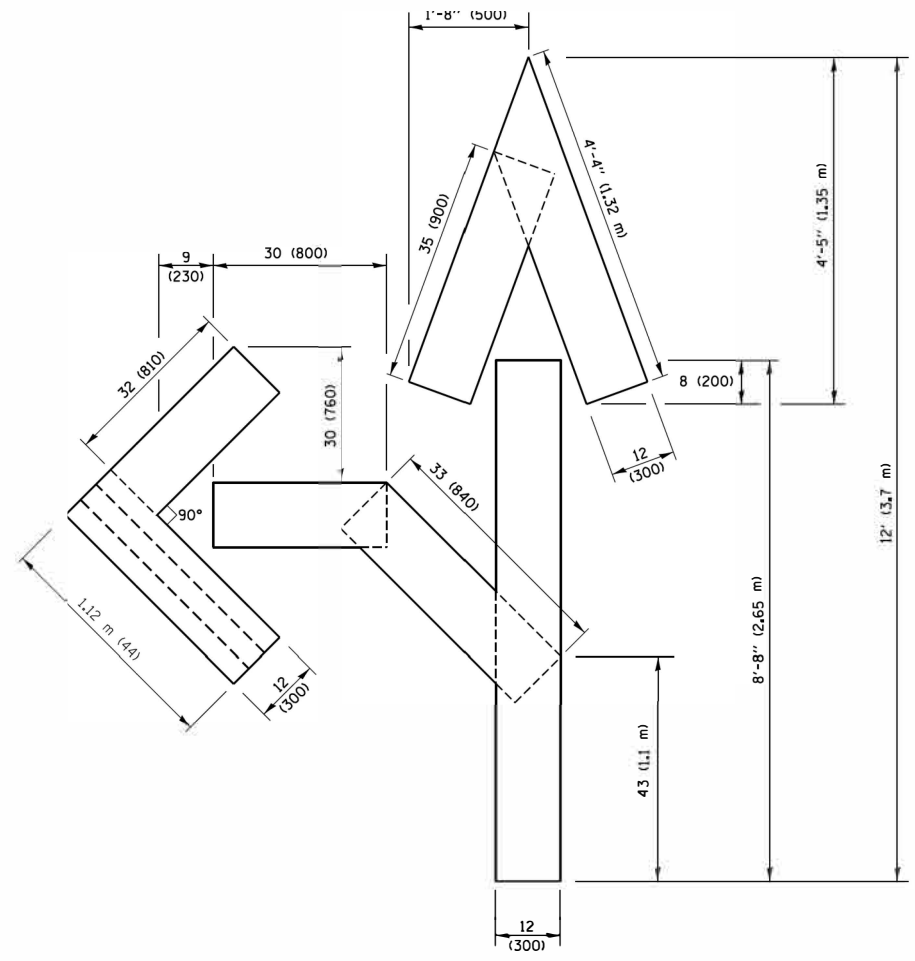
All dimensions are in inches (millimeters) unless otherwise shown.



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

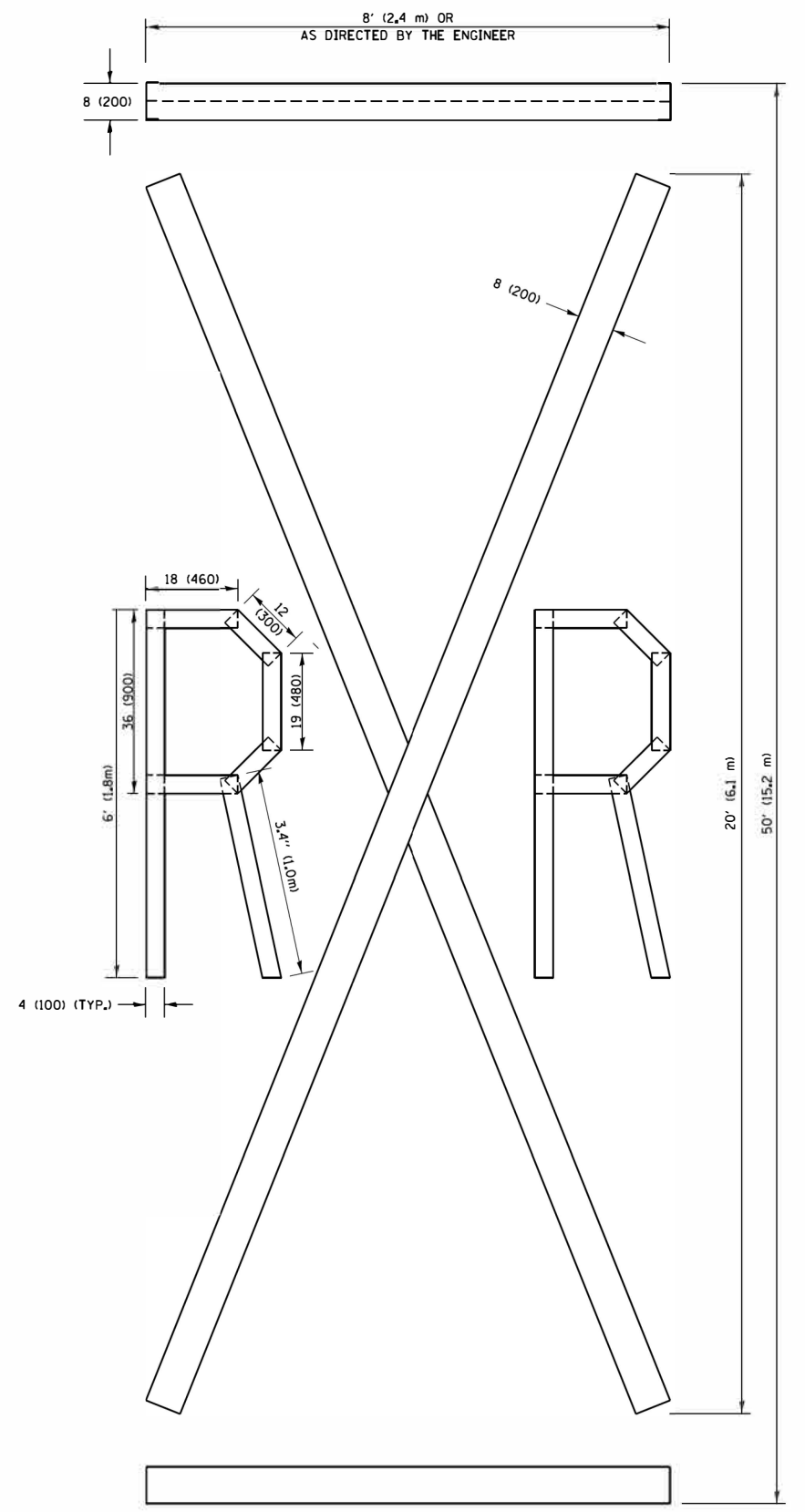


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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

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



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

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

FILE NAME =	USER NAME = foatemj	DESIGNED =	REVISED - T. RAMMACHER 03-02-98
p:\11\284EBID\INTEG\illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\CADD\CADData\CAD\Sheets\tc16.dgn		DRAWN =	REVISED - E. GOMEZ 08-28-00
		CHECKED =	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50,0000 / 1 in.		DATE =	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 9/15/2016			


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**


SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS


SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	120
TC-16			CONTRACT NO. 61E48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				






ROUTE MARKERS

 FOR U.S. ROUTES
M1-40-2424






 FOR ILLINOIS ROUTES
M1-50-2424

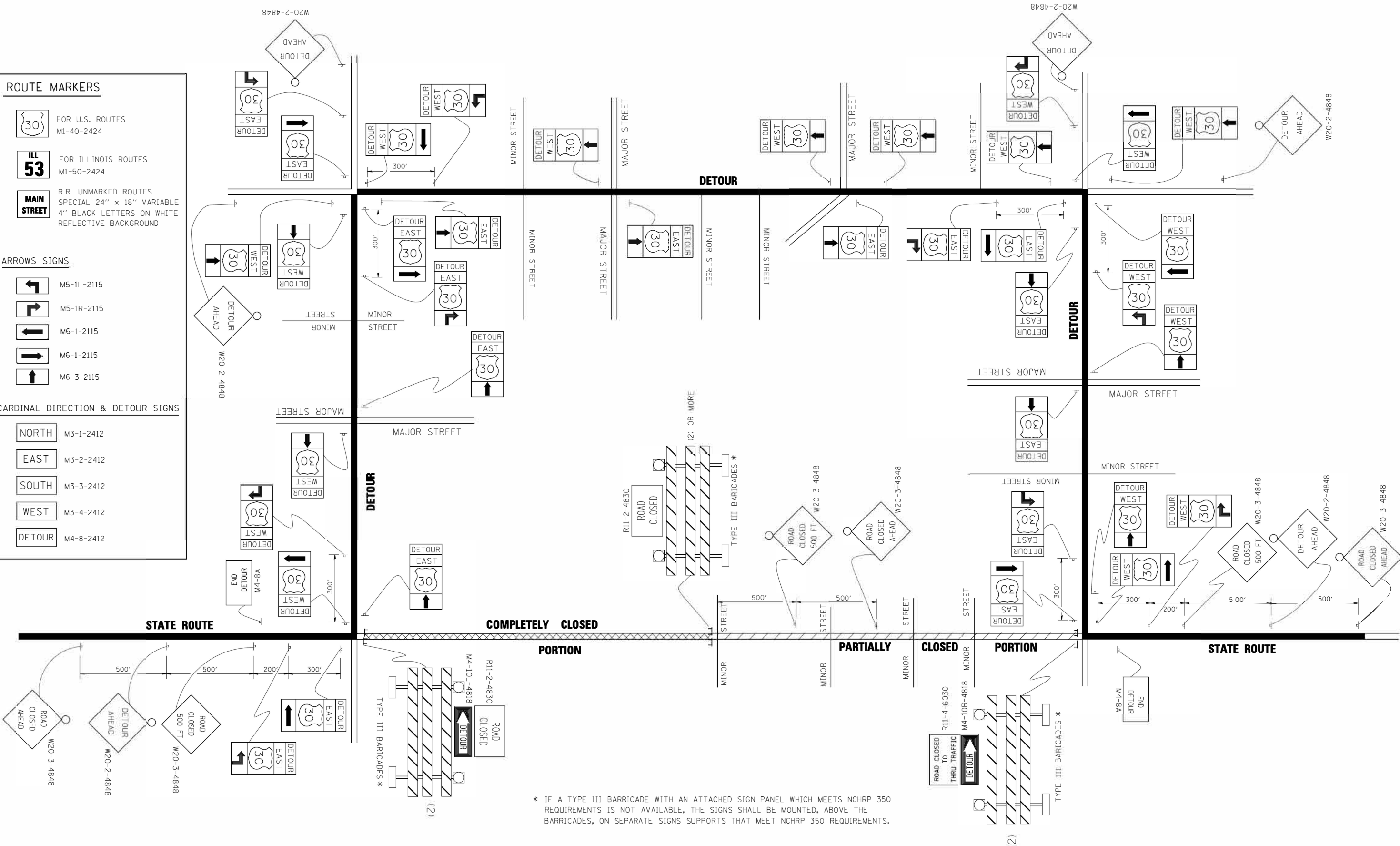
 R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

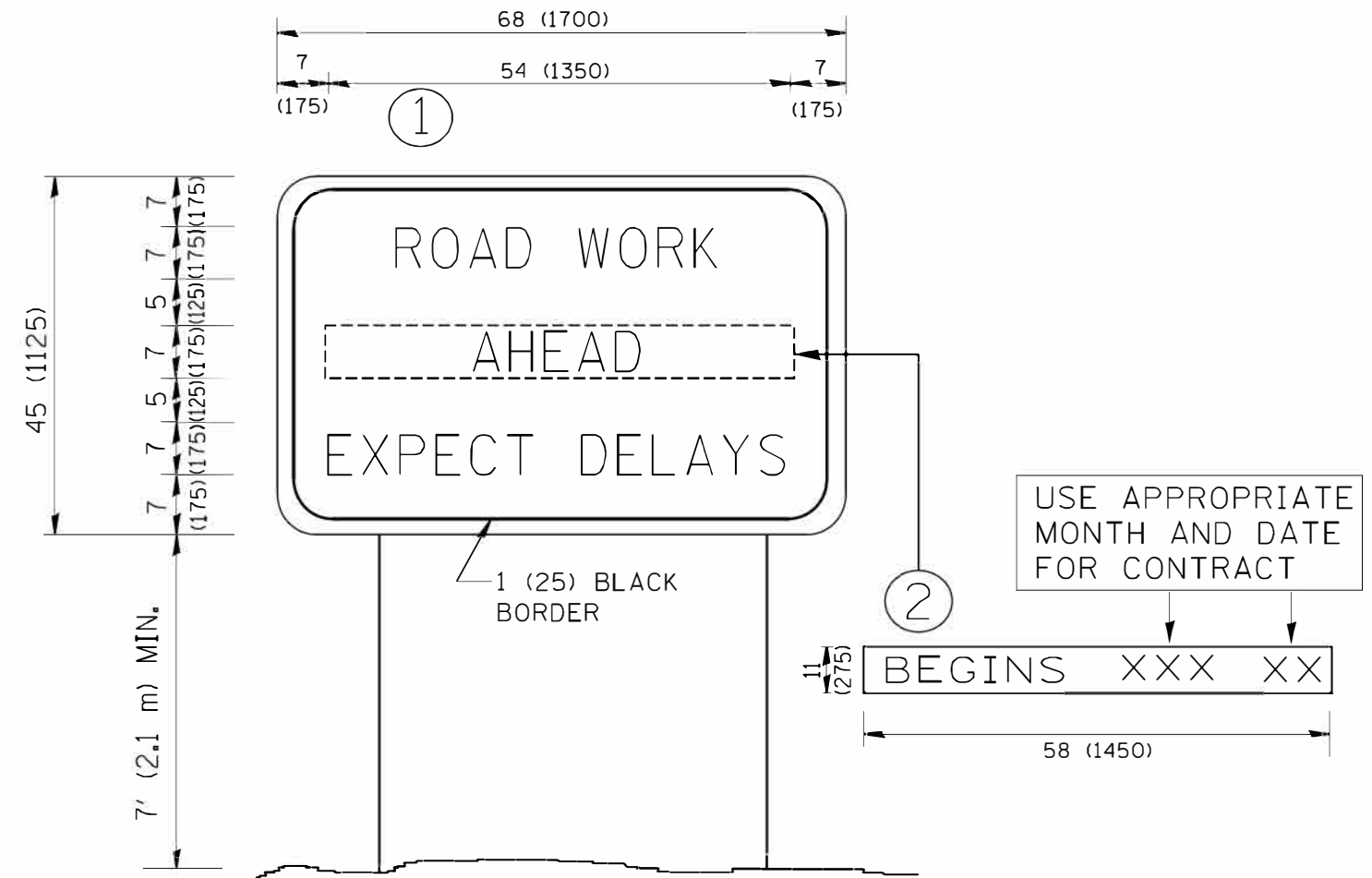
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c:\p\work\PIWIDOT\DRIVAKOSGN\d0108315\421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		PLOT SCALE = 49.9999 / IN.	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	121
TC-21		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

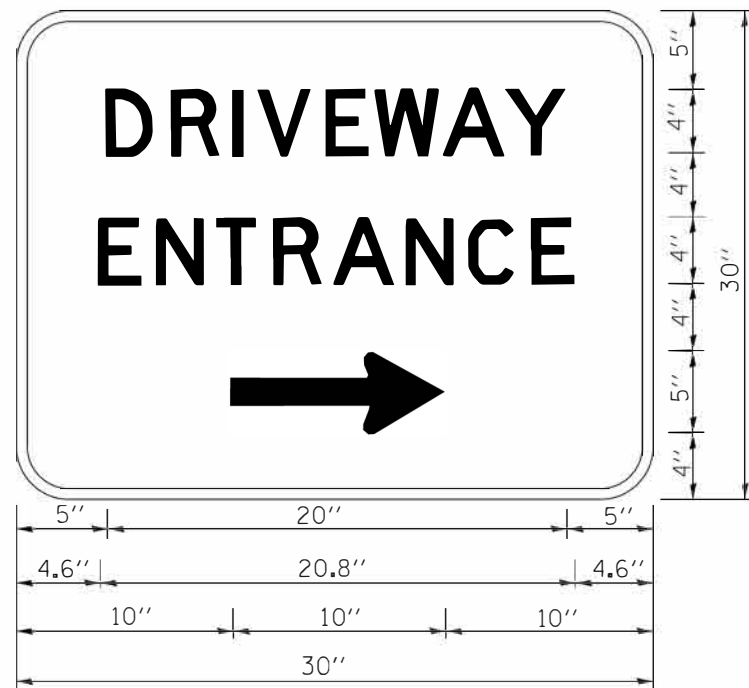
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PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	REVISED - C. JUCIUS 01-31-07
PLOT DATE = 1/4/2008	DATE -		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	122
TC-22			CONTRACT NO. 61E48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

FILE NAME =	USER NAME = gaglianob	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ca:\pwork\pwork\gaglianob\d0108315\to	Edgn	DRAWN -	REVISED -
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

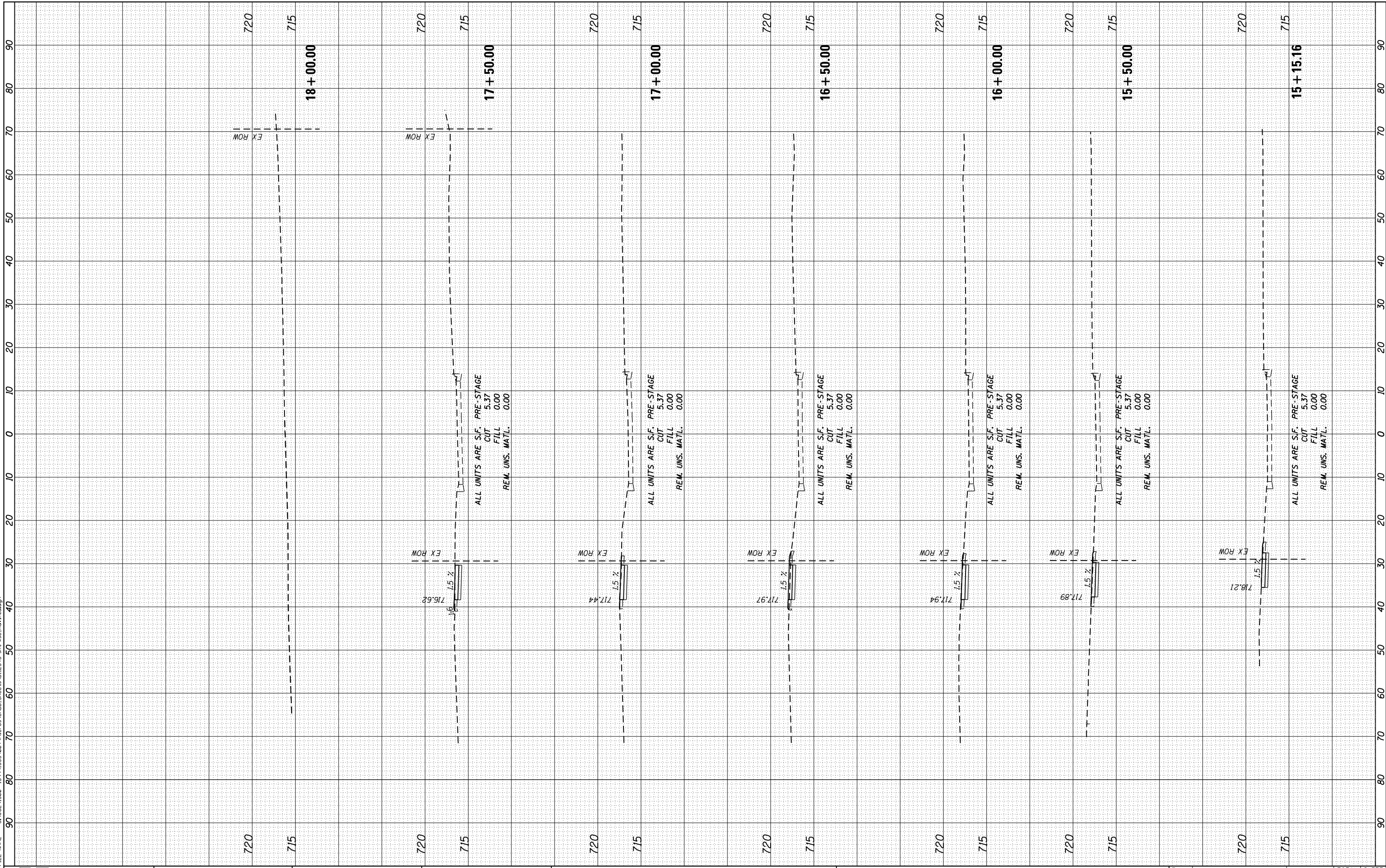
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	123
TC-26		CONTRACT NO. 61E48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

FILE NAME = SA\JUL1550-1599\1555\004\Micros\CADD\Sheets\012345-ent-sec-Ravnia.dgn



STRAND ASSOCIATES*
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE CROSS SECTIONS

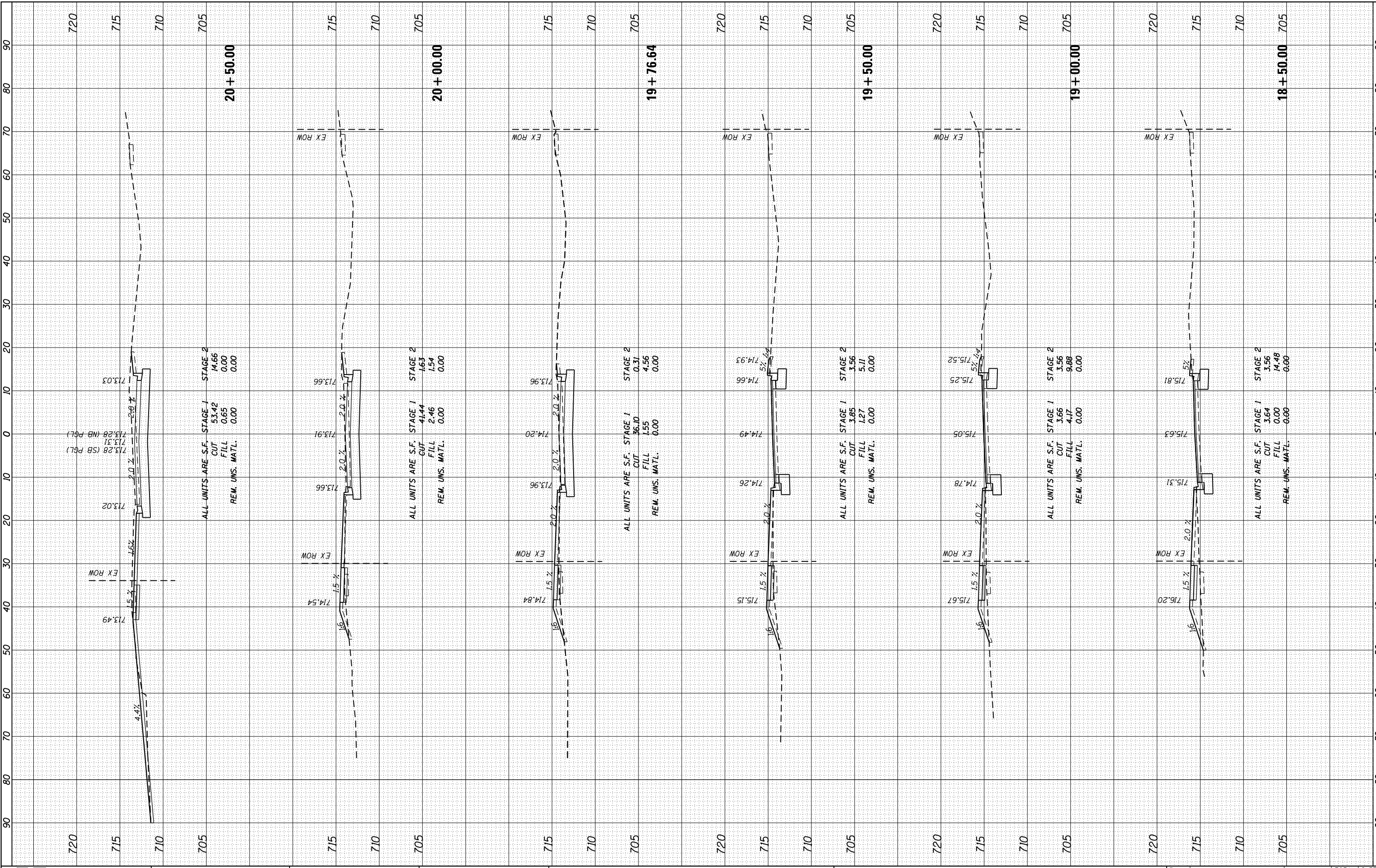
SCALE: SHEET OF SHEETS STA. 15+15.16 TO STA. 18+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	124
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

FILE NAME = S:\JUL\1580-1599\1555\00A\Micros\12345-dnt-xsc-Ravnia.dgn



ALL UNITS ARE S.F.
STAGE 1 CUT 53.42
STAGE 2 CUT 14.66
FILL 0.65
REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
STAGE 1 CUT 41.44
STAGE 2 CUT 7.65
FILL 2.46
REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
STAGE 1 CUT 36.10
STAGE 2 CUT 0.31
FILL 1.55
REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
STAGE 1 CUT 3.85
STAGE 2 CUT 3.56
FILL 1.27
REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
STAGE 1 CUT 3.66
STAGE 2 CUT 3.56
FILL 4.17
REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
STAGE 1 CUT 3.64
STAGE 2 CUT 3.56
FILL 0.00
REM. UNS. MATL. 0.00

STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = B11P
MODEL NAME = Default
DRAWN - AJJ
CHECKED - MAG
DESIGNED - WRP
DATE - 11/29/2017

REVISOR -
REVISION -
REVISION -
REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAVANIA AVENUE CROSS SECTIONS

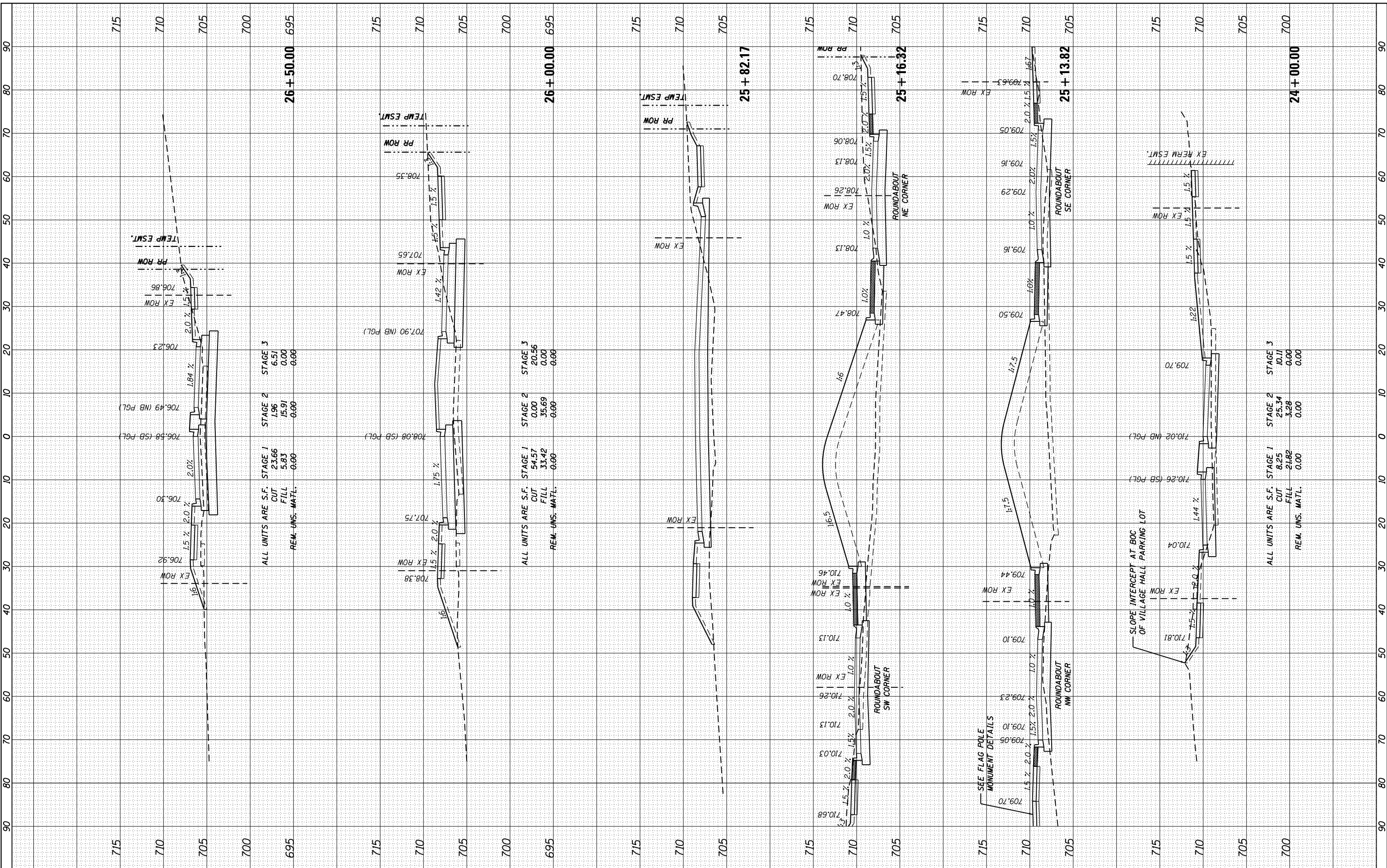
SCALE: SHEET OF SHEETS STA. 18+50.00 TO STA. 20+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	125
CONTRACT NO. 61E48				ILLINOIS FED. AID PROJECT

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = S:\JUL151500\151500\151500\151500\151500\151500\151500\151500\151500\151500.dgn



ALL UNITS ARE S.F.

STAGE	CUT	FILL
STAGE 1	23.66	5.83
STAGE 2	1.96	15.91
STAGE 3	6.51	0.00
REM. UNS. MATL.	0.00	0.00

ALL UNITS ARE S.F.

STAGE	CUT	FILL
STAGE 1	54.57	33.42
STAGE 2	0.00	35.69
STAGE 3	20.56	0.00
REM. UNS. MATL.	0.00	0.00

ALL UNITS ARE S.F.

STAGE	CUT	FILL
STAGE 1	8.25	21.82
STAGE 2	25.34	3.28
STAGE 3	10.17	0.00
REM. UNS. MATL.	0.00	0.00

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RAVINA AVENUE CROSS SECTIONS

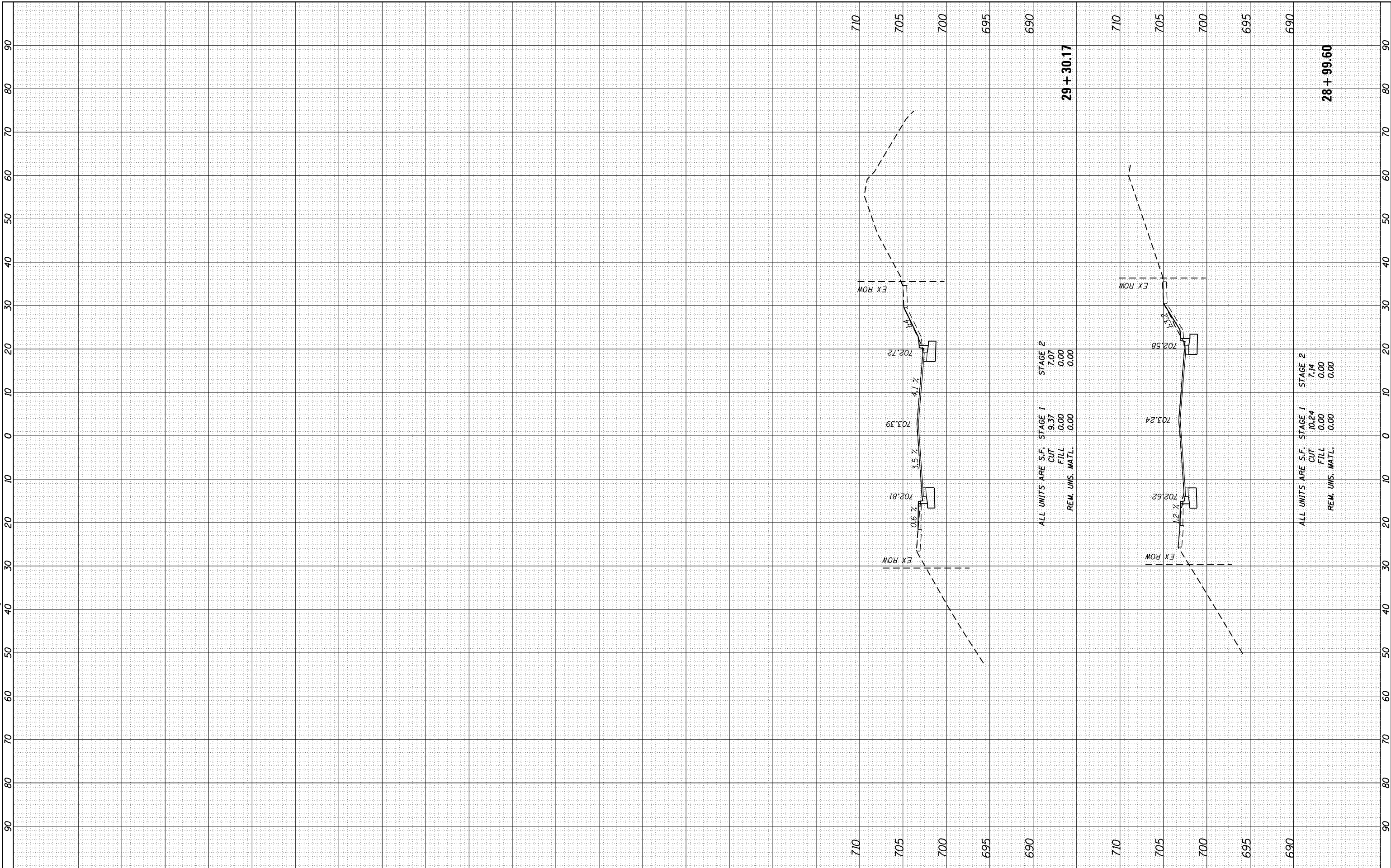
SCALE: SHEET OF SHEETS STA. 24+00.00 TO STA. 26+50.00

F.A.U. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	127
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

FILE NAME = S:\JOL\1500-1599\1555\004\Micros\1000\Sheets\012345.dwg



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

DESIGNED - WRP	REVISED -
DRAWN - AJJ	REVISED -
CHECKED - MAG	REVISED -
DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RAVINIA AVENUE CROSS SECTIONS

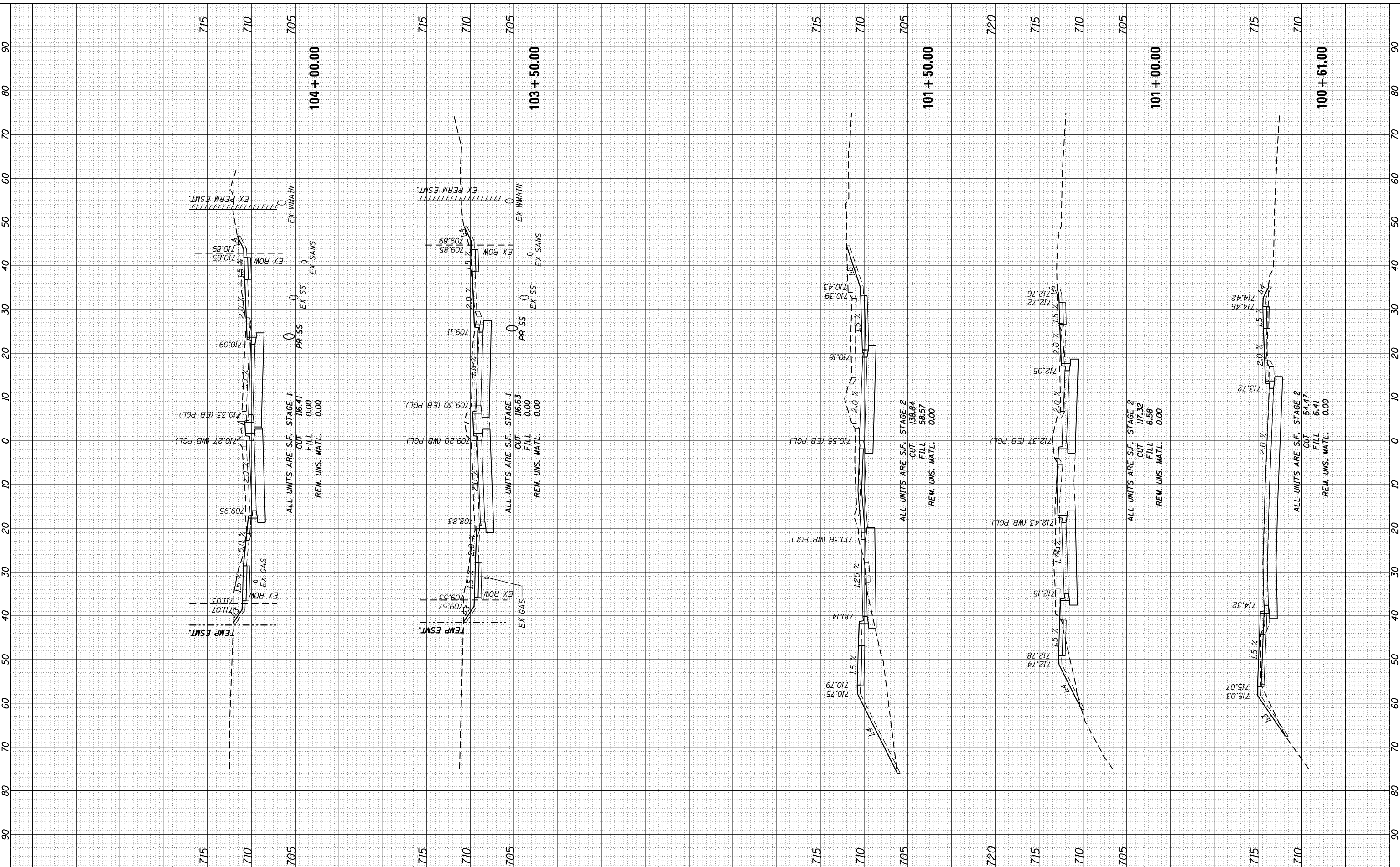
SCALE: SHEET OF SHEETS STA. 28+99.60 TO STA. 29+30.17

F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 129
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	

BY	DATE

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

FILE NAME = SA\JUL151500-1599\1555\0024\Micros\CR002_Sheets\112345-rpt-x-c-147.thdgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
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 (815) 744-4200

USER NAME = B11P	DESIGNED - WRP	REVISED -
MODEL NAME = Default	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/15/2017	DATE - 11/29/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

147TH STREET CROSS SECTIONS

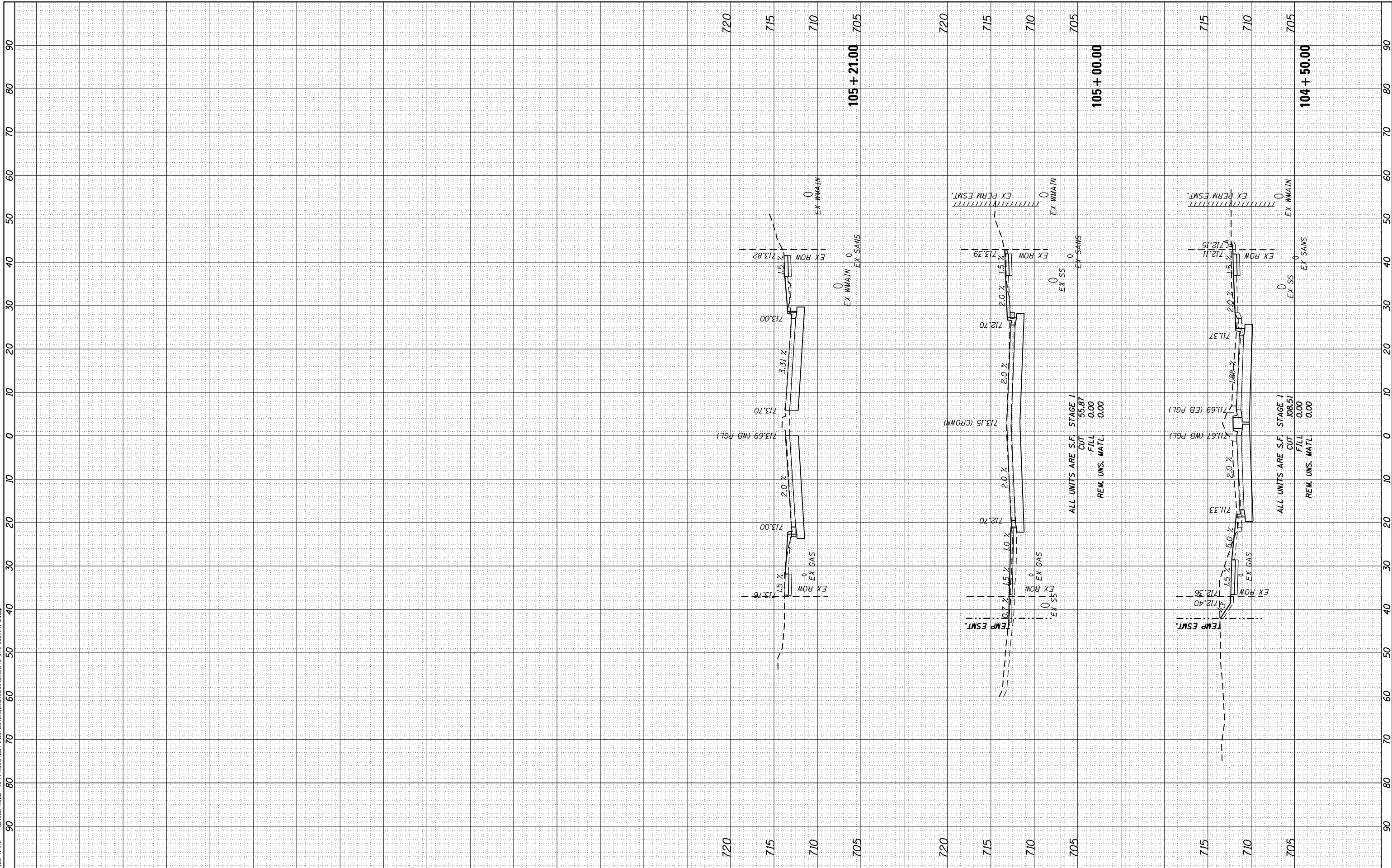
SCALE: SHEET OF SHEETS STA. 100+61.00 TO STA. 104+00.00

F.A.U. RTE. 1709	SECTION 12-00069-00-CH	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 130
CONTRACT NO. 61E48				ILLINOIS FED. AID PROJECT

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

FILE NAME = S:\JUL_15500_1599\1555\002\Micros\CRDD_Sheets\112345.dwg



USER NAME = B11P
 MODEL NAME = Default
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 12/15/2017

DESIGNED - WRP
 DRAWN - AJJ
 CHECKED - MAG
 DATE - 11/29/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

147TH STREET CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 104+50.00 TO STA. 105+21.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1709	12-00069-00-CH	COOK	131	131
CONTRACT NO. 61E48			ILLINOIS FED. AID PROJECT	