SECTION 23, TOWNSHIP 36, RANGE 14

01-18-2019 LETTING ITEM 115

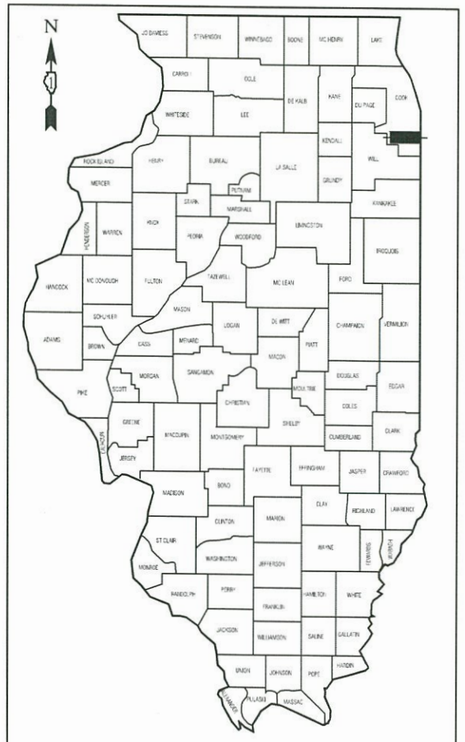
F. A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	1
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT #61F21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 351 US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SECTION NO.: 14-00103-00-CH
FEDERAL PROJECT NO.: F8R5(275)
VILLAGE *of* SOUTH HOLLAND
COOK COUNTY
JOB NO.: C-91-180-15



LOCATION OF SECTION INDICATED THUS: -

INDEX OF SHEETS
SEE SHEET NO. 2

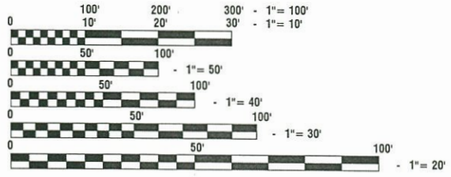
HIGHWAY STANDARDS
SEE SHEET NO. 2

DESIGN DESIGNATION – US ROUTE 6 (159TH STREET) ADT 41,000 (2040) – SRA
PV=39,800 SU=600 MU=600
% DESIGN TRAFFIC IN DESIGN LANE
P=97% S=1.5% M=1.5%
SSS=FAIR

DESIGN DESIGNATION – VAN DAM ROAD ADT 5,000 (2040) – LOCAL ROAD
PV=4,250 SU=400 MU=350
% DESIGN TRAFFIC IN DESIGN LANE
P=85% S=8% M=7%
SSS=FAIR

	US ROUTE 6 (159TH STREET)	VAN DAM ROAD
2017 ADT –	37,000	4,100
2040 ADT –	41,000	5,000
POSTED SPEED LIMIT –	35 mph	30 mph
DESIGN PERIOD –	25 YEARS	25 YEARS
DESIGN SPEED LIMIT –	40 mph	35 mph
STREET CLASSIFICATION –	URBAN ARTERIAL	LOCAL ROAD

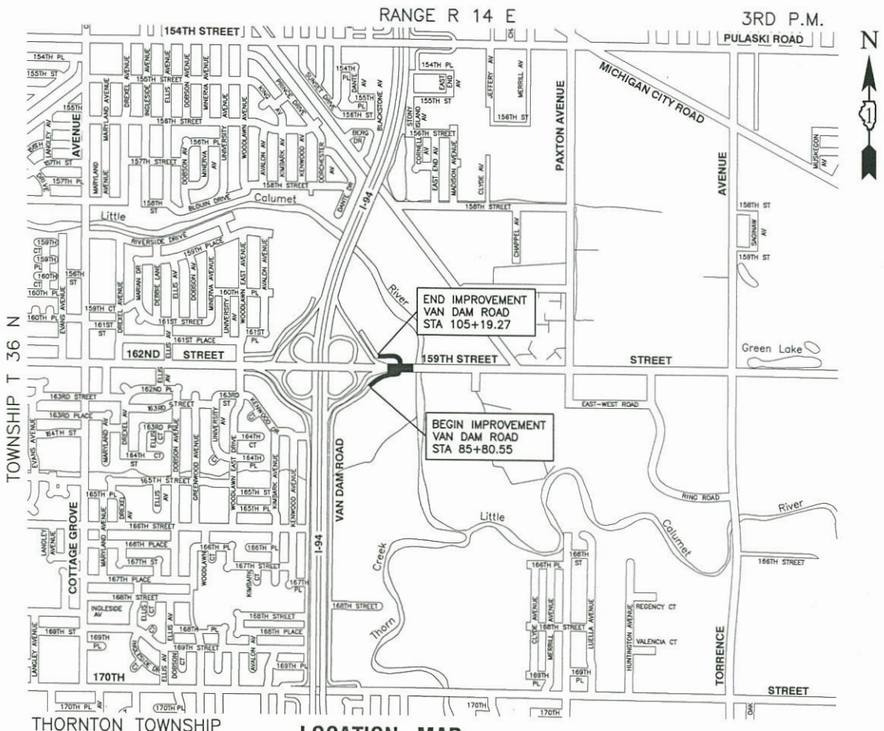
SCALES
PLAN - 1"=50'
PROFILE HORIZ. - 1"=50'
PROFILE VERT. - 1"=5'
CROSS SECTIONS - 1"=10'



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

CONTRACT NO. 61F21



LOCATION MAP
NOT TO SCALE
GROSS LENGTH=2757 FEET=0.52 MILES
NET LENGTH=2396 FEET=0.45 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved 11-2-2018
President, Village of South Holland

Passed NOVEMBER 2, 2018
CHRISTOPHER HOLT
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review NOVEMBER 2, 2018
Anthony J. Quigley/CAB
Region One Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

10-23-18

JAMES P. HUS 062-068024 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

LICENSE EXPIRES: 11/30/19

FEDERAL PROGRAM DESIGN ENGINEER: CARMEN E. RAMOS, PE SCHAUMBURG, IL
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700
CONTACT ENGINEER: JAMES HUS

12603_02-COVR-01 - C02

INDEX OF SHEETS

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GENERAL NOTES

1. ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATIONS FOR CONSTRUCTION IN THE VILLAGE OF SOUTH HOLLAND AND IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", PUBLISHED JUNE 2014, AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR CONSTRUCTION IN THE VILLAGE OF SOUTH HOLLAND UNLESS OTHERWISE NOTED ON THE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800–892–0123 AND THE VILLAGE OF SOUTH HOLLAND FOR UTILITY LOCATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING, WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE (S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRED COOPERATION WITH OTHERS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, WILL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. ALL KNOWN DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, WHETHER CONTAINED IN THE DATA SUBMITTED BY THESE AGENCIES OR NOT, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS.
5. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE CONTRACTOR AS APPROVED BY THE ENGINEER.
6. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF–SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL. THE REMOVAL SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS REMOVAL ITEMS.
7. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN–UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
8. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FORM DIRT AND DEBRIS.
9. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
10. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE UNIT PRICE BID AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.
11. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATER MAIN WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENT.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
13. THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS FROM THE NOMINAL THICKNESS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
14. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES BY LIMITING CURB AND GUTTER REPAIR TO ONE–HALF THE DRIVEWAY WIDTH AT ONE TIME AS THROUGH THE USE OF AGGREGATE FOR TEMPORARY ACCESS.
15. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE OR IDOT RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
16. THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, PATRICE HARRIS, AT PATRICE.HARRIS@ILLINOIS.GOV TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS,
17. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705–4470, ROBINSON ENGINEERING (708)331–6700 AND THE VILLAGE OF SOUTH HOLLAND (708)339–2323 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
18. STAGE ONE CONSTRUCTION SHALL COMMENCE IN COORDINATION WITH THE COMPLETION OF AN ADJACENT IDOT CONTRACT, NO. 60K78 CONSISTING OF BRIDGE WORK ALONG TORRENCE AVENUE AT THE LITTLE CALUMET RIVER. UTILIZATION OF THIS PROJECT'S DETOUR ROUTE SHALL OCCUR ONLY AFTER TORRENCE AVENUE HAS BEEN RE–OPENED TO FOUR TRAVEL LANES OVER CONTRACT NO. 60K78'S STRUCTURE. THE CONTRACT SHALL COORDINATE WITH MIKE DENNE OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT (847) 705–4252 ON THIS MATTER.
19. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY–FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES. PLEASE REGISTER AN ACCOUNT AT WWW.IDOTLCS.COM TO ENTER LANE CLOSURES. CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705–4151 FOR QUESTIONS REGARDING THESE REQUIREMENTS PERTAINING TO RAMP, PARTIAL RAMP AND SHOULDER CLOSURES ALONG INTERSTATE RAMPS.

STORM SEWER NOTES

1. ON ALL IMPROVEMENTS THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF SOUTH HOLLAND AND BE SALVAGED. THE OWNER SHALL BE NOTIFIED AS TO AVAILABILITY FOR PICK–UP.
2. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.
3. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
4. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001–05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS.
5. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ARTICLE 550.07 (b, c) OF THE SSRBC WILL NOT BE ALLOWED.

EARTHWORK NOTES

1. GENERAL
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
   - B. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTORS USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS.
   - C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND SUBGRADE ELEVATIONS (AS NOTED) AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE ACCOUNTED FOR.
   - D. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.
   - E. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.
   - F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE GRADING BEGINS.
   - G. ALL STORM INLETS SHALL BE PROTECTED BY INLET FILTERS. PLACEMENTS AND MAINTENANCE OR SILT BARRIER SHALL BE AS DIRECTED BY THE ENGINEER, BASED ON ACTUAL GRADING. GRADE THE AREA WITHIN FOUR (4) FEET AROUND STRUCTURES ONE (1) FOOT BELOW RIM TO SERVE AS A SEDIMENTATION BASIN DURING CONSTRUCTION.
   - H. FINAL LOCATION OF SILT FENCE SHALL BE ADJUSTED BASED ON ACTUAL SITE GRADING CONDITIONS. ADDITIONAL MEASURES SHALL BE ADDED AS DIRECTED BY THE ENGINEER.
   - I. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AS SOON AS PRACTICAL.
   - J. TOPSOIL STRIPPING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
   - K. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM–AXLE TRUCK.
   - L. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
   - M. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACEED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

LANDSCAPING NOTES

1. EXISTING VEGETATED AREAS (TREES, SHRUBS, VEGETATIVE BUFFERS, TURF AREAS, ETC.) WHERE DISTURBANCE IS NOT OCCURRING (INCLUDING AREAS OUTSIDE THE PROJECT LIMITS) SHALL NOT BE DISTURBED TO ENSURE THAT EXISTING VEGETATION IS PRESERVED TO MINIMIZE SOIL EROSION AND TO ELIMINATE SOIL COMPACTION. NO MATERIAL ARE TO BE STORED OR VEHICLES DRIVEN OR PARKED WITHIN THESE UNDISTURBED AREAS AT ANY TIME.

COMMITMENTS

NONE

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
	20101100	TREE TRUNK PROTECTION	EACH	30			30	
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	201			201	
	20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	201			201	
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	201			201	
	20200100	EARTH EXCAVATION	CU YD	3,896	3,896			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100			
	20800150	TRENCH BACKFILL	CU YD	377	377			
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,434			2,434	
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,445			4,445	
	21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	100	100			
	25000210	SEEDING, CLASS 2A	ACRE	1			1	
	25100630	EROSION CONTROL BLANKET	SQ YD	4,445			4,445	
	28000400	PERIMETER EROSION BARRIER	FOOT	765			765	
	28000500	INLET AND PIPE PROTECTION	EACH	3			3	
	28000510	INLET FILTERS	EACH	30			30	
	28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	4,445			4,445	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	32			32	
	28200200	FILTER FABRIC	SQ YD	32			32	
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100	100			
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	9,736	9,736			
	35400520	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 12"	SQ YD	205	205			
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100			
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	17,703	17,703			
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	789	789			

☆ – INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	50	50			
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	12	12			
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	3,937	3,937			
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	830	830			
	40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	7,082	7,082			
	40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	138	138			
	44000100	PAVEMENT REMOVAL	SQ YD	7,579	7,579			
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1,183	1,183			
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	562	562			
	44000300	CURB REMOVAL	FOOT	71	71			
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,735	2,735			
	44003100	MEDIAN REMOVAL	SQ FT	5,009	5,009			
	48203025	HOT-MIX ASPHALT SHOULDERS, 7"	SQ YD	665	665			
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1			
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1			
	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1			
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	882	882			
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	298	298			
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	264	264			
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	202	202			
	55100400	STORM SEWER REMOVAL 10"	FOOT	178	178			
	55100500	STORM SEWER REMOVAL 12"	FOOT	448	448			
	55100900	STORM SEWER REMOVAL 18"	FOOT	115	115			
☆	56103200	DUCTILE IRON WATER MAIN 10"	FOOT	74	74			

☆ – INDICATES SPECIALTY ITEM

FILE NAME = 12603_02-QUAN-01 - IDOT P01

USER NAME =		DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
PLOT SCALE =		DRAWN — RG	REVISED —
PLOT DATE = 11-02-18		CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	3
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
☆	56106300	ADJUSTING WATER MAIN 6"	FOOT	25	25			
☆	56106400	ADJUSTING WATER MAIN 8"	FOOT	25	25			
☆	56106500	ADJUSTING WATER MAIN 10"	FOOT	75	75			
☆	56109000	TAPPING VALVES AND SLEEVES 10"	EACH	2	2			
☆	56300300	ADJUSTING WATER SERVICE LINES	FOOT	55	55			
☆	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2	2			
☆	56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	2	2			
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	2,331	2,331			
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1			
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2			
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	9	9			
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1			
	60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4	4			
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	8	8			
	60500040	REMOVING MANHOLES	EACH	1	1			
	60500050	REMOVING CATCH BASINS	EACH	7	7			
	60500060	REMOVING INLETS	EACH	6	6			
	60600605	CONCRETE CURB, TYPE B	FOOT	14	14			
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	41	41			
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2,699	2,699			
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	3,209	3,209			
☆	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	362	362			
☆	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1			
☆	63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	2	2			

☆ – INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
	63200310	GUARDRAIL REMOVAL	FOOT	153	153			
☆	66400105	CHAIN LINK FENCE, 4'	FOOT	288	288			
☆	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1			
☆	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	20	20			
☆	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7			
	67100100	MOBILIZATION	LSUM	1	1			
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	140	140			
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	7,122		7,122		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	13,691		13,691		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5,056		5,056		
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	306		306		
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7,026		7,026		
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4,431		4,431		
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	96		96		
	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	3,360		3,360		
☆	72000100	SIGN PANEL - TYPE 1	SQ FT	50		50		
☆	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	14		14		
☆	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	3		3		
☆	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1		
☆	72900200	METAL POST - TYPE B	FOOT	44		44		
☆	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	256		256		
☆	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,032		5,032		
☆	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	689		689		

☆ – INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
☆	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	18		18		
☆	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	177		177		
☆	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	49		49		
☆	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	995		995		
☆	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	47		47		
☆	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	327		327		
☆	81400100	HANDHOLE	EACH	4		4		
☆	81400200	HEAVY-DUTY HANDHOLE	EACH	2		2		
☆	81400300	DOUBLE HANDHOLE	EACH	1		1		
☆	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1		
☆	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1		
☆	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,250		1,250		
☆	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	679		679		
☆	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,905		1,905		
☆	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,560		1,560		
☆	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,759		1,759		
☆	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	191		191		
☆	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	611		611		
☆	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2		
☆	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1		
☆	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1		
☆	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1		
☆	87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1		1		
☆	87702556	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 52 FT.	EACH	1		1		

☆ – INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
☆	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12		
☆	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4		
☆	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	35		35		
☆	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42		42		
☆	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8		8		
☆	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2		
☆	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2		
☆	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6		6		
☆	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14		14		
☆	88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6		
☆	88600100	DETECTOR LOOP, TYPE I	FOOT	449		449		
☆	88700200	LIGHT DETECTOR	EACH	3		3		
☆	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1		
☆	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1		
☆	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,445		2,445		
☆	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1		
☆	89502380	REMOVE EXISTING HANDHOLE	EACH	8		8		
☆	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1		
☆	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7		7		
	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2	2			
☆	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	679		679		
☆	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	500		500		
	X0326694	PLUG EXISTING STORM SEWERS	CU YD	1	1			
☆	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		4		

☆ – INDICATES SPECIALTY ITEM

FILE NAME = 12603_02-QUAN-01 - IDOT P03	USER NAME =	DESIGNED – JPH	REVISED –
		CHECKED – WPD	REVISED –
	PLOT SCALE =	DRAWN – RG	REVISED –
	PLOT DATE = 11-02-18	CHECKED – AG	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	5
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042
☆	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1		
☆	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1		
☆	X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2		2		
☆	X5610710	WATER MAIN REMOVAL, 10"	FOOT	67	67			
☆	X6026622	VALVE VAULTS TO BE REMOVED	EACH	1	1			
	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	320	320			
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1		
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	30		30		
☆	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1		
☆	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,250		1,250		
☆	XX000679	CUT AND CAP EXISTING WATER MAIN	EACH	2	2			
☆	XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	425	425			
☆	XX008608	CABLE, SPECIAL	FOOT	743	743			
	Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	710	710			
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	8	8			
	Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	2	2			
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	100		100		
☆	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1		
☆	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1		
	Z0076600	TRAINEES	HOUR	1,000				1,000
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000				1,000
	66900200	NON SPEICAL WASTE DISPOSAL	CU YD	70	70			
	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			

☆ – INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0003	SAFETY 0021	LNSC 0031	TRAINEES 0042

☆ – INDICATES SPECIALTY ITEM

FILE NAME = 12603_02-QUAN-01 - IDOT P04	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 6 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	6
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

STRUCTURE NUMBER	LOCATION	TYPE	RIM ELEV.	INVERT (NORTH)	INVERT (SOUTH)	INVERT (WEST)	INVERT (EAST)
100	99+14.63	FLARED END SECTION 24"				589.80	
	56.27' RT						
101	99+12.75	CATCH BASIN, TYPE A, 4' DIA	599.29			589.88	589.88
	24.35' RT	TYPE 24					
201	100+92.20	CATCH BASIN, TYPE A, 4' DIA	599.74			594.10	595.90
	29.35' LT	TYPE 24				NW	
202	100+92.41	INLET, TYPE A	599.81			596.21	
	26' RT	TYPE 24					
300	100+81.96	FLARED END SECTION 36"				587.21	
	66.85' RT						
200	101+17.97	FLARED END SECTION 12"				592.30	
	64.05' LT					NW	
301	102+25.56	EXISTING MANHOLE	592.09		589.39	589.39	
	58.01' LT					NW	
302	102+50	CATCH BASIN, TYPE A, 4' DIA	596.17	592.40		589.80	589.80
	31.63' LT	TYPE 24		NW		SW	SE
303	102+50	INLET, TYPE A	596.28				592.68
	26' RT	TYPE 24					SE
304	104+00.98	CATCH BASIN, TYPE A, 4' DIA	594.67			590.84	590.84
	25.74' LT	TYPE 24				NW	NE
305	104+00.98	INLET, TYPE A	594.67				591.07
	26.11' RT	TYPE 24					SE
102	98+71.50	CATCH BASIN, TYPE A, 5' DIA	598.10		592.60	590.01	590.01
	46.47' LT	TYPE 24			SE		
103	98+47.24	INLET, TYPE A	596.69	593.00			
	25.21' RT	TYPE 24		NW			
104	97+93.51	CATCH BASIN, TYPE A, 5' DIA	595.10			590.08	590.08
	50' LT	TYPE 8				SW	
105	97+45	MANHOLE, TYPE A, 4' DIA	594.60		590.50	590.18	590.18
	28.71' LT	TYPE 1 OPEN LID					NE

STRUCTURE NUMBER	LOCATION	TYPE	RIM ELEV.	INVERT (NORTH)	INVERT (SOUTH)	INVERT (WEST)	INVERT (EAST)
106	97+45	CATCH BASIN, TYPE A, 4' DIA	594.77	590.62	590.62	590.62	
	19.03' LT	TYPE 24					
107	97+45	CATCH BASIN, TYPE A, 4' DIA	594.67	590.81		590.81	
	24' RT	TYPE 24					
108	97+13.91	INLET, TYPE A	594.55				590.95
	24' RT	TYPE 24					
109	97+13.91	INLET, TYPE A	594.69				591.09
	17.03' LT	TYPE 24					
110	96+05	MANHOLE, TYPE A, 4' DIA	594.70		591.20	590.54	590.54
	28.71' LT	TYPE 1 OPEN LID					
111	96+05	CATCH BASIN, TYPE A, 4' DIA	595.36	591.36	591.36		
	12' LT	TYPE 24					
112	96+05	INLET, TYPE A	595.12	591.52			
	24' LT	TYPE 24					
113	94+80.70	MANHOLE, TYPE A, 4' DIA	594.90		590.90	590.90	590.90
	28.78' LT	TYPE 1 OPEN LID					
114	94+80.70	CATCH BASIN, TYPE A, 4' DIA	596.34	591.10	592.04		
	12' LT	TYPE 24					
115	94+80.70	CATCH BASIN, TYPE A, 4' DIA	595.86	592.20		592.20	
	24' RT	TYPE 24					
116	93+79.31	INLET, TYPE A	595.64				592.64
	24' RT	TYPE 24					
117	93+66.05	MANHOLE, TYPE A, 4' DIA	594.90			591.29	591.29
	31.91' LT	TYPE 1 OPEN LID				SW	
118	92+01.86	CATCH BASIN, TYPE A, 4' DIA	595.75			591.86	591.86
	57.67' RT	TYPE 11				SW	NE
119	90+88.29	CATCH BASIN, TYPE A, 4' DIA	596.30			592.31	592.31
	34.21' RT	TYPE 11				SW	NE

FILE NAME = 12603_02-QUAN-01 - DRNG SCDL

USER NAME =	DESIGNED — JPH	REVISED —	
	CHECKED — WPD	REVISED —	
PLOT SCALE =	DRAWN — RG	REVISED —	
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —	

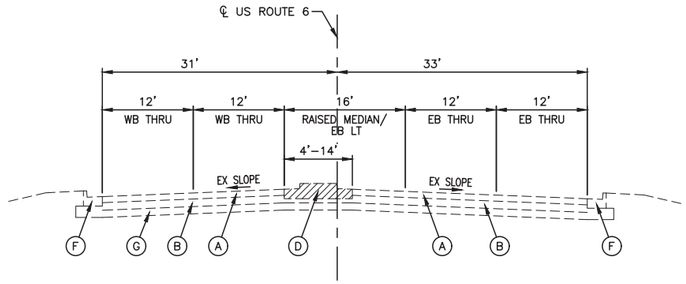
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
DRAINAGE SCHEDULE

SCALE: NONE | SHEET NO. 7 OF 78 SHEETS | STA. | TO STA.

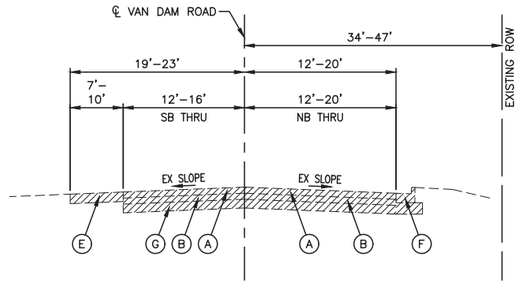
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	7
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



EXISTING TYPICAL SECTION

US ROUTE 6
STA 196+51.12 TO STA 199+71.15



EXISTING TYPICAL SECTION

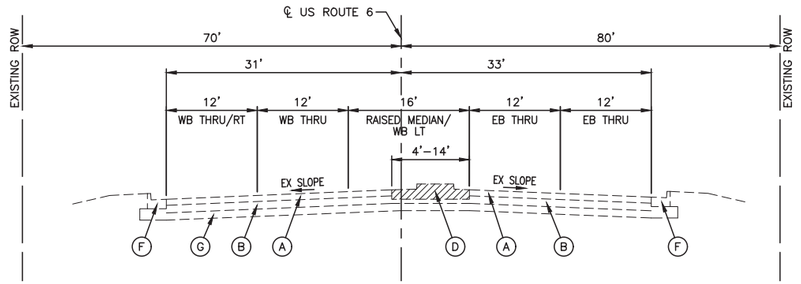
VAN DAM ROAD
STA 90+19.17 TO STA 96+58.93

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT
- (B) EXISTING PCC PAVEMENT
- (C) EXISTING HMA SURFACE REMOVAL, 2"
- (D) EXISTING PCC MEDIAN
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING CONCRETE CURB AND GUTTER
- (G) EXISTING SUBGRADE
- (H) EXISTING PCC SHOULDER
- (J) EXISTING CORRUGATED MEDIAN
- (K) EXISTING GUARDRAIL

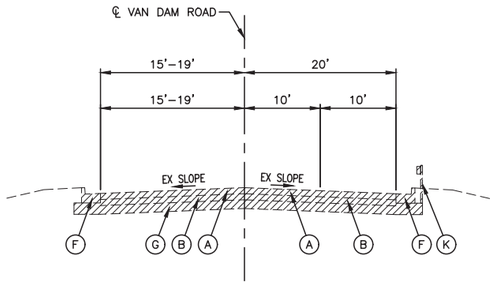
PROPOSED LEGEND

- (1) PCC BASE COURSE WIDENING 12" (SEE SPECIAL PROVISION)
- (2) HMA BINDER COURSE, IL–19.0, N70, 8½"
- (3) HMA SURFACE COURSE, MIX "D", N70, 1½"
- (4) LEVELING BINDER (MACHINE METHOD), N70, ¾" & VARIES
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) TOPSOIL, FURNISH AND PLACE, 4"
- (7) SEEDING, CLASS 2A
- (8) TYPE B–6.24 COMBINATION CONCRETE CURB AND GUTTER
- (9) PCC MEDIAN TYPE SB–6.12
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (11) HMA SHOULDERS, 7"



EXISTING TYPICAL SECTION

US ROUTE 6
STA 202+65.04 TO STA 204+69.23



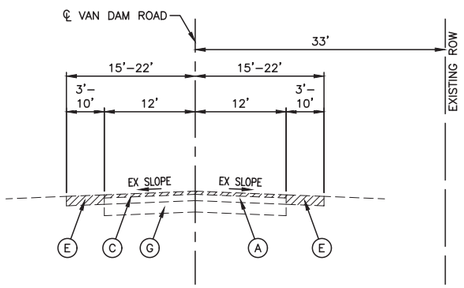
EXISTING TYPICAL SECTION

VAN DAM ROAD
STA 96+58.93 TO STA 99+64.57

ITEMS TO BE REMOVED
(AS DIRECTED BY THE ENGINEER)

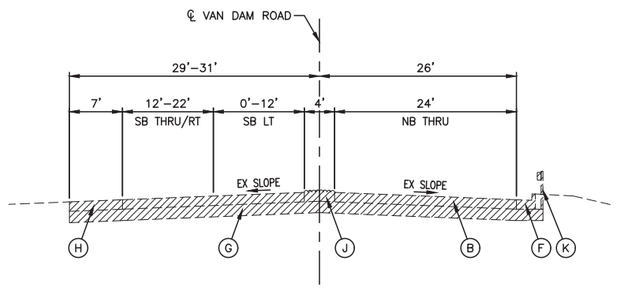
NOTE

EXISTING PAVEMENT THICKNESSES ASSUMED PER IDOT RECORD PLANS, ACTUAL PAVEMENT THICKNESS MAY VARY



EXISTING TYPICAL SECTION

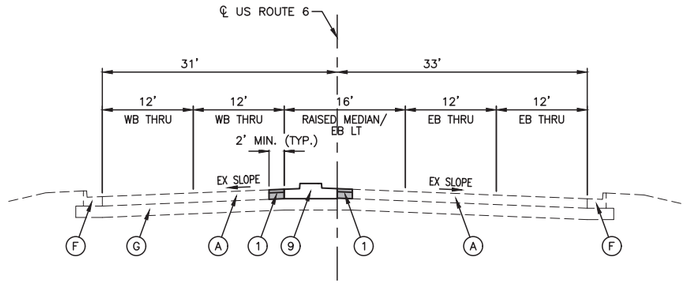
VAN DAM ROAD
STA 85+80.55 TO STA 90+19.17



EXISTING TYPICAL SECTION

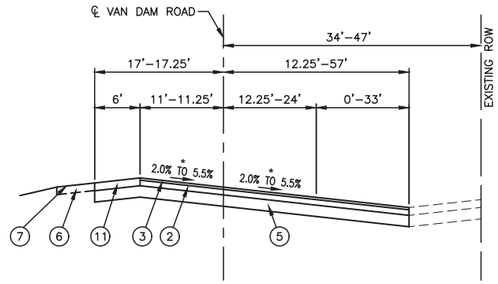
VAN DAM ROAD
STA 100+31.89 TO STA 105+19.27

FILE NAME = 12603_02-TYPX-01 - IDOT P01	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS TYPICAL CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —					351	14-00103-00-CH	COOK	78	8
	PLOT SCALE =	DRAWN — RG	REVISED —							CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE:	SHEET NO. 8 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



PROPOSED TYPICAL SECTION

US ROUTE 6
STA 196+51.12 TO STA 199+71.15



PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 90+19.17 TO STA 93+24.45

*SE TRANSITION
90+27.77 TO 91+72.77
SEE SUPERELEVATION DETAIL ON SHEET 10

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT
- (B) EXISTING PCC PAVEMENT
- (C) EXISTING HMA SURFACE REMOVAL, 2"
- (D) EXISTING PCC MEDIAN
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING CONCRETE CURB AND GUTTER
- (G) EXISTING SUBGRADE
- (H) EXISTING PCC SHOULDER
- (J) EXISTING CORRUGATED MEDIAN
- (K) EXISTING GUARDRAIL

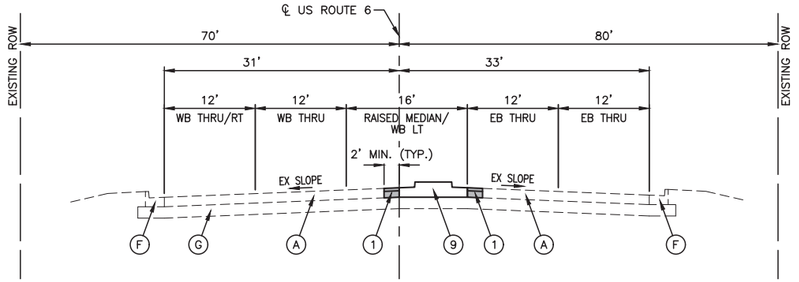
PROPOSED LEGEND

- (1) PCC BASE COURSE WIDENING 12" (SEE SPECIAL PROVISION)
- (2) HMA BINDER COURSE, IL–19.0, N70, 8½"
- (3) HMA SURFACE COURSE, MIX "D", N70, 1½"
- (4) LEVELING BINDER (MACHINE METHOD), N70, ¾" & VARIES
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) TOPSOIL, FURNISH AND PLACE, 4"
- (7) SEEDING, CLASS 2A
- (8) TYPE B–6.24 COMBINATION CONCRETE CURB AND GUTTER
- (9) PCC MEDIAN TYPE SB–6.12
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (11) HMA SHOULDERS, 7"

ITEMS TO BE REMOVED
(AS DIRECTED BY THE ENGINEER)

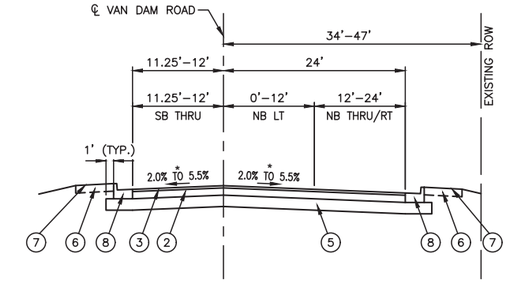
NOTE

EXISTING PAVEMENT THICKNESSES ASSUMED PER IDOT RECORD PLANS, ACTUAL PAVEMENT THICKNESS MAY VARY



PROPOSED TYPICAL SECTION

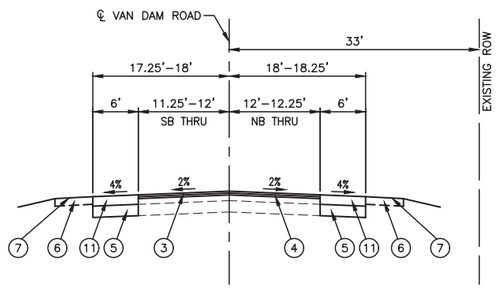
US ROUTE 6
STA 202+65.04 TO STA 204+69.26



PROPOSED TYPICAL SECTION

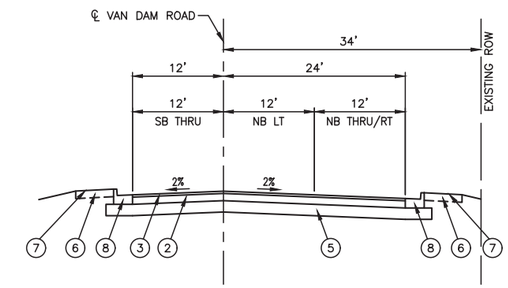
VAN DAM ROAD
STA 93+24.45 TO STA 95+19.41

*SE TRANSITION
93+74.41 TO 95+19.41
SEE SUPERELEVATION DETAIL ON SHEET 10



PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 85+80.55 TO STA 90+19.17



PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 95+19.41 TO STA 96+35.78

FILE NAME = 12603_02-TYPX-01 - IDOT P02	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —			351	14-00103-00-CH	COOK	78	9
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: SHEET NO. 9 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

VAN DAM ROAD
SUPERELEVATION DETAILS

STA 95+19.41

STA 94+80.70

STA 94+41.99

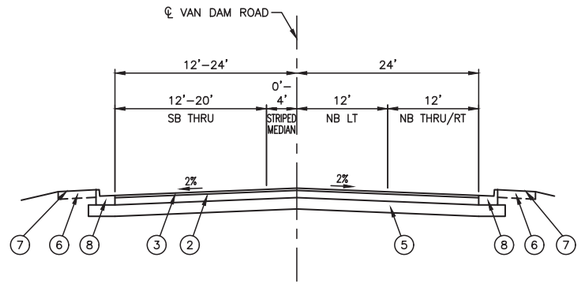
STA 93+74.41

STA 91+72.77

STA 91+05.19

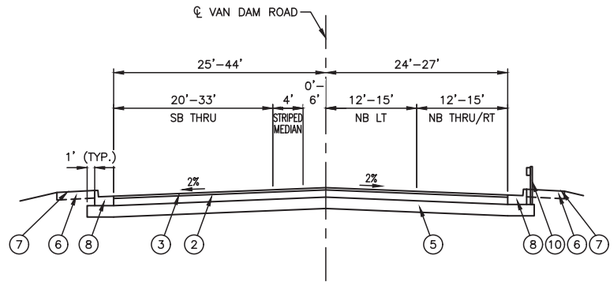
STA 90+66.48

STA 90+27.77



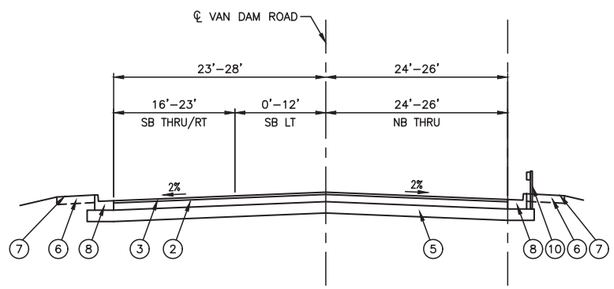
PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 96+35.78 TO STA 97+66.39



PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 97+66.39 TO STA 99+64.57



PROPOSED TYPICAL SECTION

VAN DAM ROAD
STA 100+31.89 TO STA 105+19.27

EARTHWORK QUANTITIES

TOTAL CUT	=	6,203	CY
TOTAL EXISTING PAVEMENT REMOVAL	=	2,105	CY
TOTAL AVAILABLE CUT TO FILL	=	4,098	CY
TOTAL FILL	=	175	CY
CUT TO FILL (15% SHRINKAGE)	=	202	CY
EXCESS HAUL AWAY MATERIAL	=	3,896	CY

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT
- (B) EXISTING PCC PAVEMENT
- (C) EXISTING HMA SURFACE REMOVAL, 2"
- (D) EXISTING PCC MEDIAN
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING CONCRETE CURB AND GUTTER
- (G) EXISTING SUBGRADE
- (H) EXISTING PCC SHOULDER
- (J) EXISTING CORRUGATED MEDIAN
- (K) EXISTING GUARDRAIL

PROPOSED LEGEND

- (1) PCC BASE COURSE WIDENING 12" (SEE SPECIAL PROVISION)
- (2) HMA BINDER COURSE, IL–19.0, N70, 8½"
- (3) HMA SURFACE COURSE, MIX "D", N70, 1½"
- (4) LEVELING BINDER (MACHINE METHOD), N70, ¾" & VARIES
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) TOPSOIL, FURNISH AND PLACE, 4"
- (7) SEEDING, CLASS 2A
- (8) TYPE B–6.24 COMBINATION CONCRETE CURB AND GUTTER
- (9) PCC MEDIAN TYPE SB–6.12
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (11) HMA SHOULDERS, 7"

ITEMS TO BE REMOVED
(AS DIRECTED BY THE ENGINEER)

NOTE

EXISTING PAVEMENT THICKNESSES ASSUMED PER IDOT RECORD PLANS, ACTUAL PAVEMENT THICKNESS MAY VARY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1–1/2" (IL–9.5mm)	4% @ 70 Gyr.
HOT MIX ASPHALT BINDER COURSE, IL–19.0, N70, 8–1/2"	4% @ 70 Gyr.
HMA DRIVEWAYS 8" (COMMERCIAL ENTRANCE)	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL–9.5mm)	4% @ 50 Gyr.
HOT MIX ASPHALT BINDER COURSE, IL–19.0, N50, 6"	4% @ 50 Gyr.
RESURFACING	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1–1/2" (IL–9.5mm)	4% @ 70 Gyr.
LEVELING BINDER (MACHINE METHOD), N70, 3/4" & VARIES (IL–9.5mm)	4% @ 70 Gyr.
HMA OVER PCC BASE COURSE WIDENING	
HOT–MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL–9.5mm)	4% @ 70 Gyr.
HMA SHOULDERS	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL–9.5mm)	4% @ 70 Gyr.
HOT MIX ASPHALT BINDER COURSE, IL–19.0, N70, 5"	4% @ 70 Gyr.

NOTE:
THE UNIT WEIGHT USED TO CALCULATE ALL HOT–MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN. THE AC TYPE FOR NON–POLYMERIZED HMA MIXTURES SHALL BE "PG 64–22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISION. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

FILE NAME = 12603_02-TYPX-01 - IDOT P03	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
TYPICAL CROSS SECTIONS

SCALE: | SHEET NO. 10 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	10
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

CURVE "A"	CURVE "B"	CURVE "C"	CURVE "D"	CURVE "E"	CURVE "F"	CURVE "G"
PI= STA. 84+07.52	PI= STA. 88+87.76	PI= STA. 92+62.72	PI= STA. 98+72.39	PI= STA. 102+01.28	PI= STA. 103+73.71	PI= STA. 107+35.59
Δ = 37°08'26"	Δ = 18°46'25"	Δ = 51°22'22"	Δ = 90°04'35"	Δ = 122°35'57"	Δ = 30°50'38"	Δ = 43°09'54"
D = 17°54'12"	D = 11°01'05"	D = 17°21'45"	D = 95°29'35"	D = 75°23'21"	D = 19°05'55"	D = 31°49'51"
R = 320.03'	R = 520.00'	R = 330.00'	R = 60.00'	R = 76.00'	R = 300.00'	R = 180.00'
T = 107.52'	T = 85.96'	T = 125.72'	T = 60.08'	T = 138.81'	T = 82.76'	T = 71.20'
L = 207.45'	L = 170.39'	L = 295.89'	L = 94.33'	L = 162.62'	L = 161.50'	L = 135.61'
E = 17.58	E = 7.06'	E = 36.19'	E = 24.91'	E = 82.25'	E = 11.21'	E = 13.57'

PT STA=108+00.00
NORTH=1798244.750
EAST=1190155.554

PC STA=106+64.39
NORTH=1798201.690
EAST=1190280.780

CROSS SET
NORTH=1798215.766
EAST=1190317.638
ELEV=596.150

PT STA=102+82.59
NORTH=1798266.335
EAST=1190650.873

IRON PIPE FOUND
NORTH=1798352.009
EAST=1190661.005
ELEV=593.073

PC STA=102+92.96
NORTH=1798260.619
EAST=1190642.220

PT STA=104+54.46
NORTH=1798211.238
EAST=1190490.499

CURVE "G"

CURVE "E"

CURVE "F"

PC STA=101+19.97
NORTH=1798204.053
EAST=1190768.757

PROJECT END
STA 105+19.27

STA=200+27.13 159TH STREET (US ROUTE 6)=
STA=100+00.00 VAN DAM ROAD
NORTH=1798084.095
EAST=1190770.540

PI STA=202+00.00
NORTH=1798086.667
EAST=1190943.394

LITTLE CALUMET RIVER

EXIST ROW

159TH (US RTE 6) STREET

ROAD

CROSS FOUND
NORTH=1798053.670
EAST=1189304.829
ELEV=615.648

PI STA=190+00.00
NORTH=1798062.829
EAST=1189743.633

IRON ROD SET
NORTH=1797925.324
EAST=1190162.630
ELEV=596.510

PT STA=94+10.66
NORTH=1797937.170
EAST=1190298.021

PC STA=98+25.23
NORTH=1797942.776
EAST=1190712.553

PI STA=99+50.00
NORTH=1798034.104
EAST=1190771.282

PT STA=99+19.56
NORTH=1798003.662
EAST=1190771.735

CURVE "C"

CURVE "D"

PC STA=91+14.77
NORTH=1797809.697
EAST=1190041.917

IRON ROD FOUND
NORTH=1797901.406
EAST=1190264.330
ELEV=592.095

IRON ROD FOUND
NORTH=1797898.255
EAST=1190732.817
ELEV=596.130

PI STA=90+00.00
NORTH=1797719.072
EAST=1189971.488

CURVE "B"

PC STA=88+01.80
NORTH=1797581.949
EAST=1189829.885

PT STA=89+72.19
NORTH=1797697.114
EAST=1189954.424

VAN DAM

PT STA=85+07.45
NORTH=1797420.024
EAST=1189584.067

PROJECT BEGINS
STA 85+80.55

CROSS FOUND ON CONCRETE ROW MARKER
NORTH=1797382.035
EAST=1189592.887
ELEV=592.095

CURVE "A"

PC STA=83+00.00
NORTH=1797259.523
EAST=1189458.419

FILE NAME = 12603_02-TIES-01 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG/KWM	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

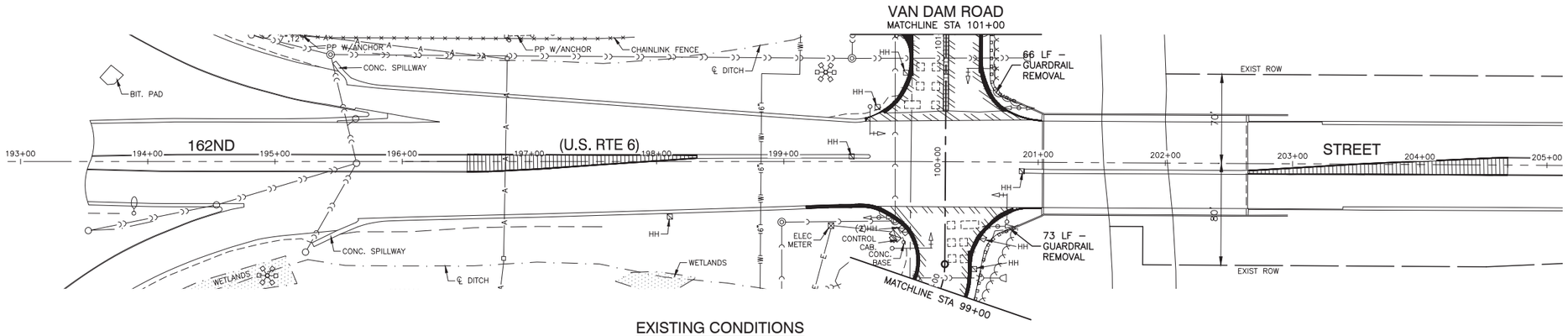
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
ALIGNMENT AND TIES

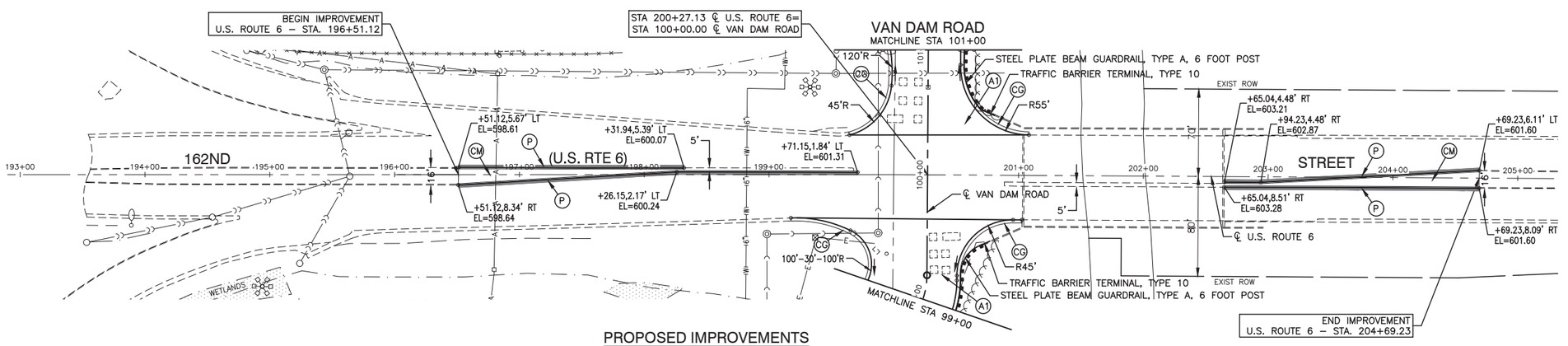
SCALE: 1"=60' | SHEET NO. 11 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	11
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



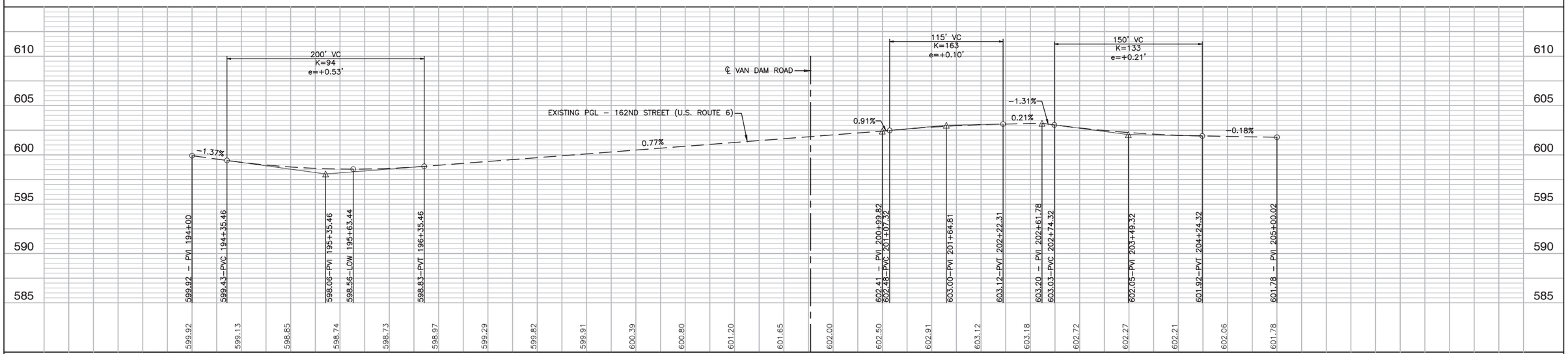
EXISTING CONDITIONS



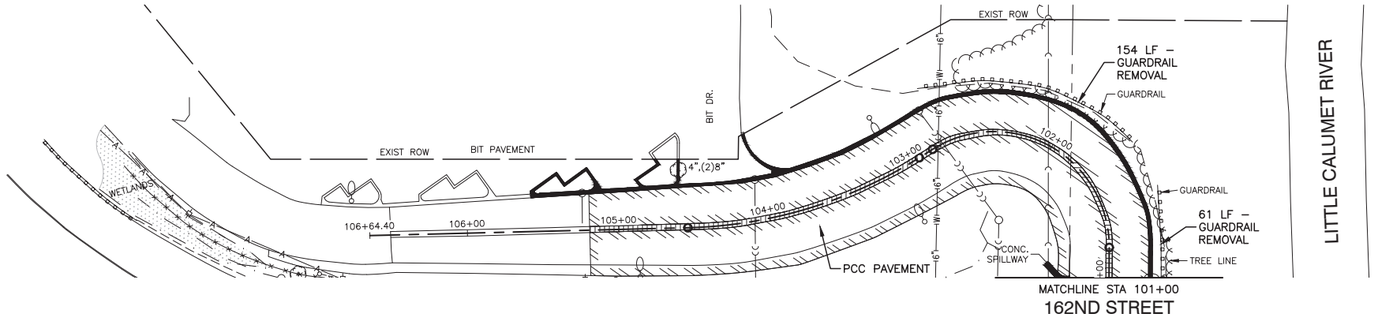
PROPOSED IMPROVEMENTS

LEGEND

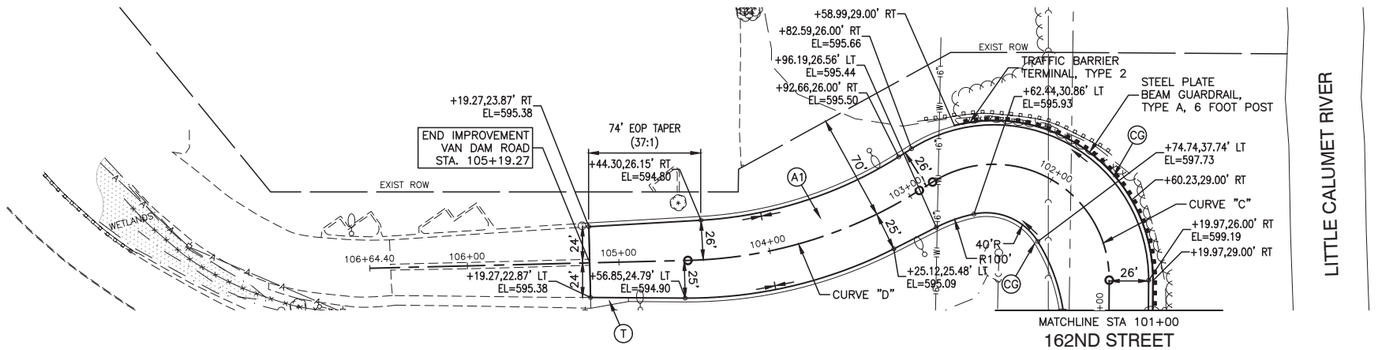
- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- MEDIAN REMOVAL
- MILL AND RESURFACE, 2"
- CONCRETE C&G REMOVAL
- (CG) CURB & GUTTER, TYPE B–6.24
- (CM) CONCRETE MEDIAN, TYPE SB–6.12
- (DW) HMA DRIVEWAY (COMMERCIAL ENTRANCE) 8"
  –HMA SURFACE COURSE, MIX "D", N50, 2"
  –HMA BINDER COURSE, IL–19.0, N50, 6"
  –AGGREGATE BASE COURSE, TYPE B, 6"
- (A1) HMA SURFACE COURSE, MIX "D", N70, 1½"
  HMA BINDER COURSE, IL–19.0, N70, 8½"
  AGGREGATE SUBGRADE IMPROVEMENT. 12"
- (A2) HMA SURFACE COURSE, MIX "D", N70, 1½"
  LEVELING BINDER (MACHINE METHOD) N70, ¾" & VARIES
- (S1) HMA SHOULDERS, 7"
  AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (P) PCC BASE COURSE WIDENING, 12"
  (SEE SPECIAL PROVISIONS)
- (T) CURB TRANSITION (SEE DETAIL SHEET 15)
  PAID AS CURB & GUTTER, TYPE B–6.24



FILE NAME = 12603_02-PLPR-01 - IDOT PLPR01	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS ROADWAY PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —			351	14-00103-00-CH	COOK	78	12
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5 | SHEET NO. 12 OF 78 SHEETS | STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

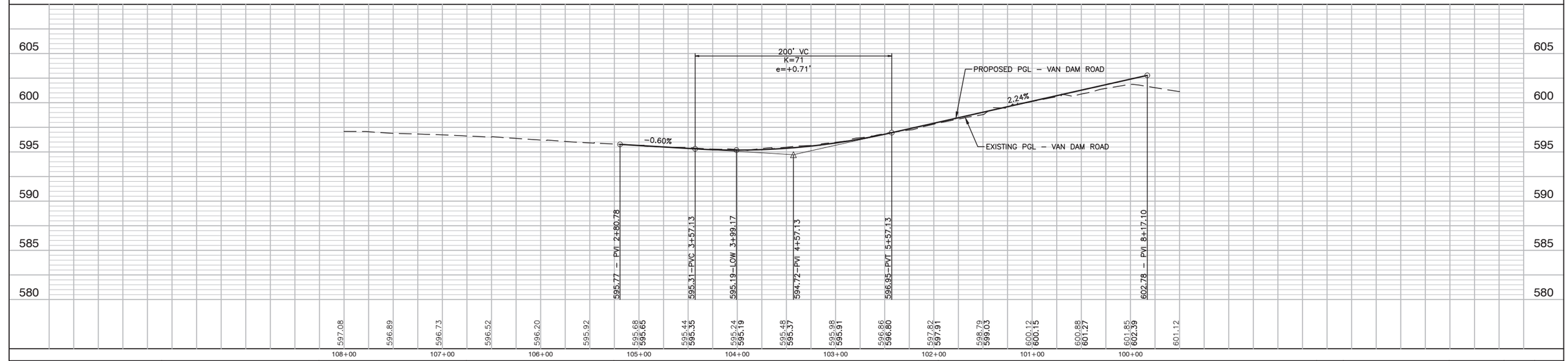
N

LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- MEDIAN REMOVAL
- MILL AND RESURFACE, 2"
- CONCRETE C&G REMOVAL
- (CG) CURB & GUTTER, TYPE B–6.24
- (CM) CONCRETE MEDIAN, TYPE SB–6.12
- (DW) HMA DRIVEWAY (COMMERCIAL ENTRANCE) 8" –HMA SURFACE COURSE, MIX "D", N50, 2" –HMA BINDER COURSE, IL–19.0, N50, 6" –AGGREGATE BASE COURSE, TYPE B, 6"
- (A1) HMA SURFACE COURSE, MIX "D", N70, 1½" HMA BINDER COURSE, IL–19.0, N70, 8½" AGGREGATE SUBGRADE IMPROVEMENT. 12"
- (A2) HMA SURFACE COURSE, MIX "D", N70, 1½" LEVELING BINDER (MACHINE METHOD) N70, ¾" & VARIES
- (S1) HMA SHOULDERS, 7" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (P) PCC BASE COURSE WIDENING, 12" (SEE SPECIAL PROVISIONS)
- (T) CURB TRANSITION (SEE DETAIL SHEET 15) PAID AS CURB & GUTTER, TYPE B–6.24

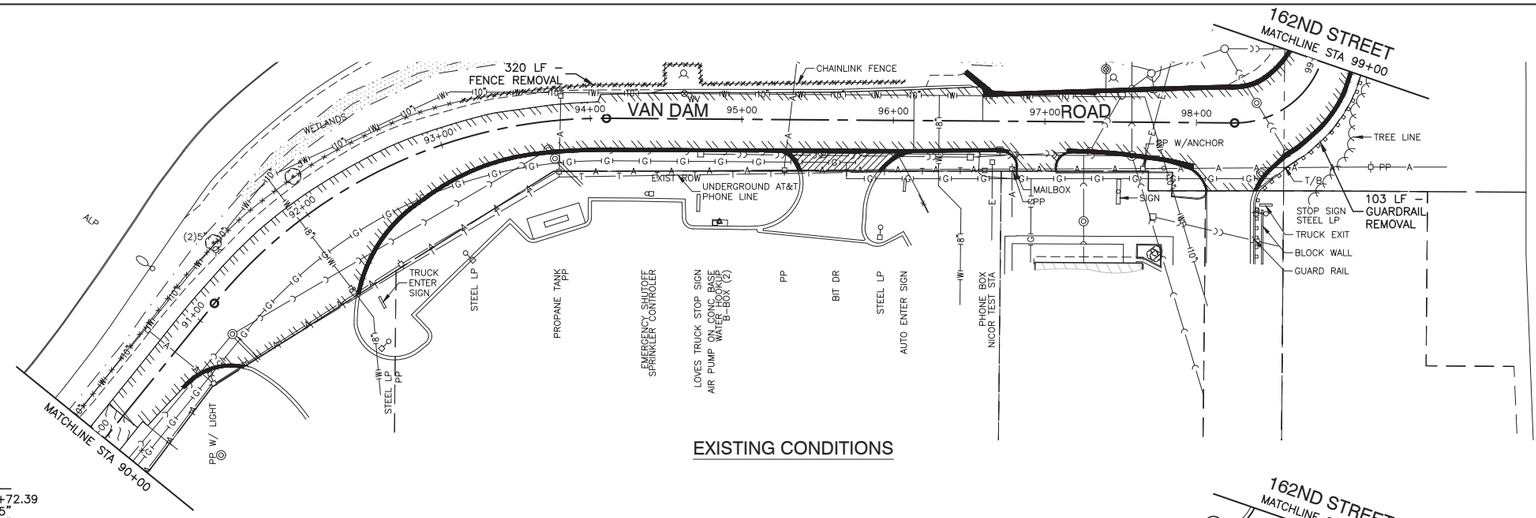
CURVE "C"
PI= STA. 102+01.28
Δ = 122°35'57"
D = 75°23'21"
R = 76.00'
T = 138.81'
L = 162.62'
E = 82.25'
PC=101+19.97
PT=102+82.59
e = NC
D.S. = 35

CURVE "D"
PI= STA. 103+73.71
Δ = 30°50'38"
D = 19°05'55"
R = 300.00'
T = 82.76'
L = 161.50'
E = 11.21'
PC=102+92.96
PT=104+54.46
e = NC
D.S. = 35



FILE NAME = 12603_02-PLPR-01 - IDOT PLPR02	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS ROADWAY PLAN & PROFILE
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5 | SHEET NO. 13 OF 78 SHEETS | STA. TO STA.

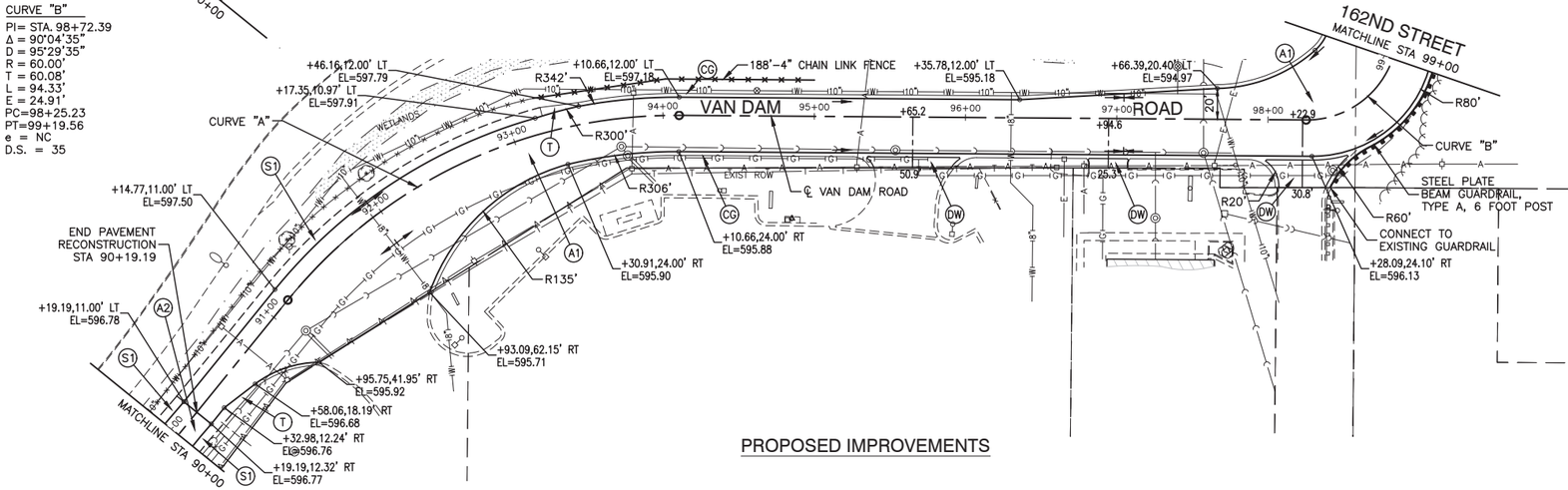
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	13
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



EXISTING CONDITIONS

CURVE "A"
PI= STA. 92+62.72
Δ = 51°22'22"
D = 17°21'45"
R = 330.00'
T = 125.72'
L = 295.89'
E = 36.19'
PC=91+14.77
PT=94+10.66
e = 5.5%
D.S. = 35
TR = 38.5'
SE RUN = 106.5'

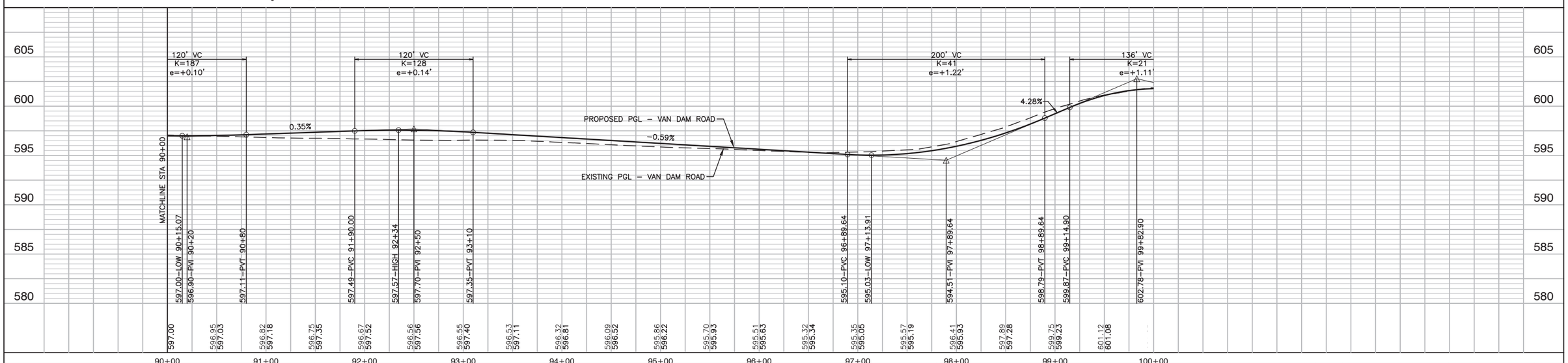
CURVE "B"
PI= STA. 98+72.39
Δ = 95°29'35"
R = 60.00'
T = 60.08'
L = 94.33'
E = 24.91'
PC=98+25.23
PT=99+19.56
e = NC
D.S. = 35



PROPOSED IMPROVEMENTS

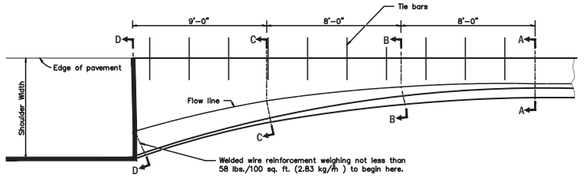
LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- MEDIAN REMOVAL
- MILL AND RESURFACE, 2"
- CONCRETE C&G REMOVAL
- (CG) CURB & GUTTER, TYPE B-6.24
- (CM) CONCRETE MEDIAN, TYPE SB-6.12
- (DW) HMA DRIVEWAY (COMMERCIAL ENTRANCE) 8"
  –HMA SURFACE COURSE, MIX "D", N50, 2"
  –HMA BINDER COURSE, IL-19.0, N50, 6"
  –AGGREGATE BASE COURSE, TYPE B, 6"
- (A1) HMA SURFACE COURSE, MIX "D", N70, 1½"
  HMA BINDER COURSE, IL-19.0, N70, 8½"
  AGGREGATE SUBGRADE IMPROVEMENT. 12"
- (A2) HMA SURFACE COURSE, MIX "D", N70, 1½"
  LEVELING BINDER (MACHINE METHOD) N70, ¾" & VARIES
- (S1) HMA SHOULDERS, 7"
  AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (P) PCC BASE COURSE WIDENING, 12"
  (SEE SPECIAL PROVISIONS)
- (T) CURB TRANSITION (SEE DETAIL SHEET 15)
  PAID AS CURB & GUTTER, TYPE B-6.24

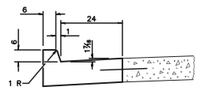


FILE NAME = 12603_02-PLPR-01 - IDOT PLPR03	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS ROADWAY PLAN & PROFILE
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5' SHEET NO. 14 OF 78 SHEETS STA. TO STA.

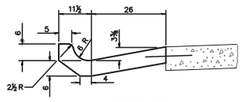
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	14
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



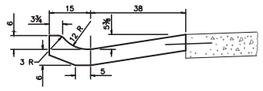
PLAN



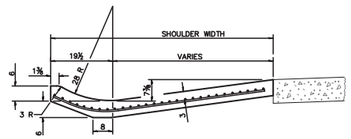
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

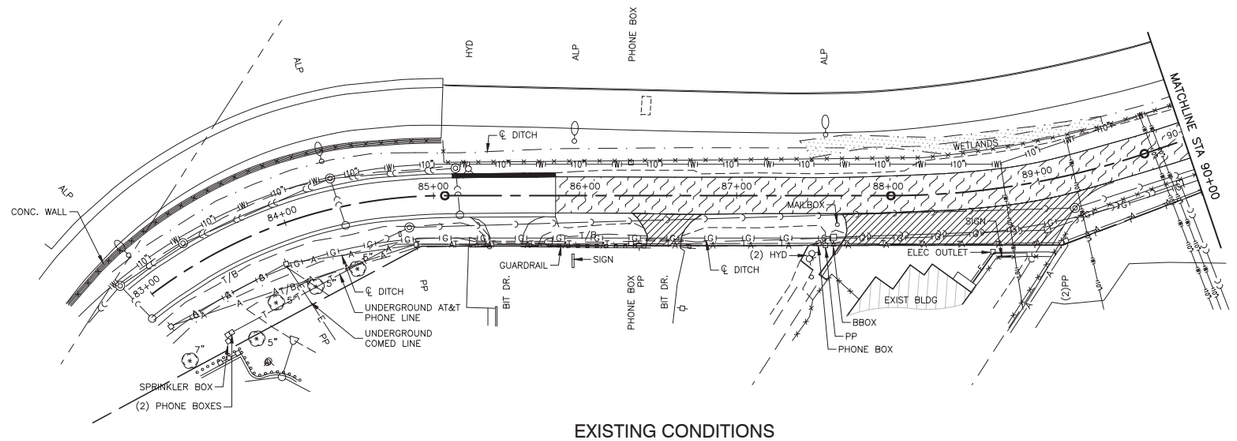
Tie bars shall be No. 6 (No. 19) at 36 centers unless otherwise shown.

Gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

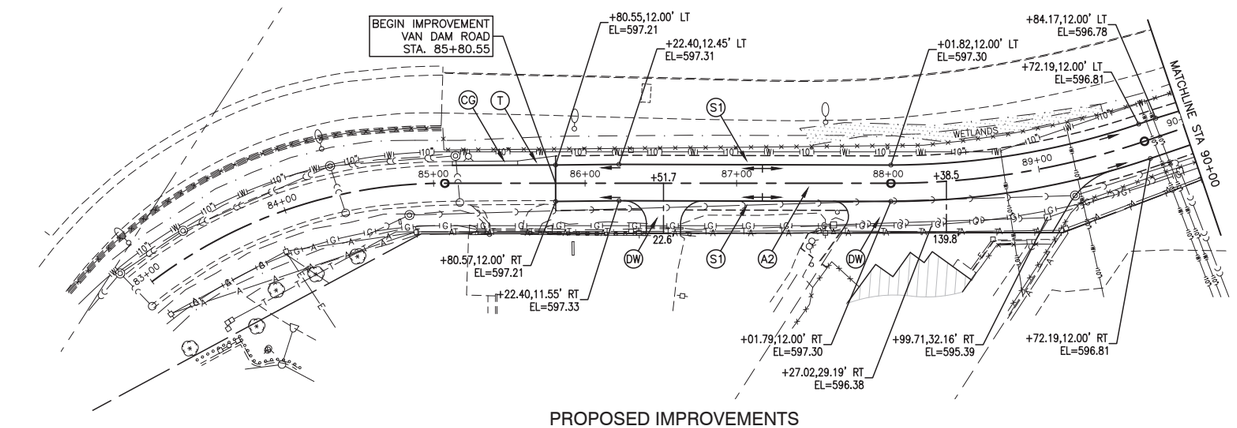
If the average grade of pavement for the distance from Section A–A to D–D exceeds 2%, this distance shall be increased 6' (1.8 m) for each 1% increase in grade.

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

CURB TRANSITION DETAIL



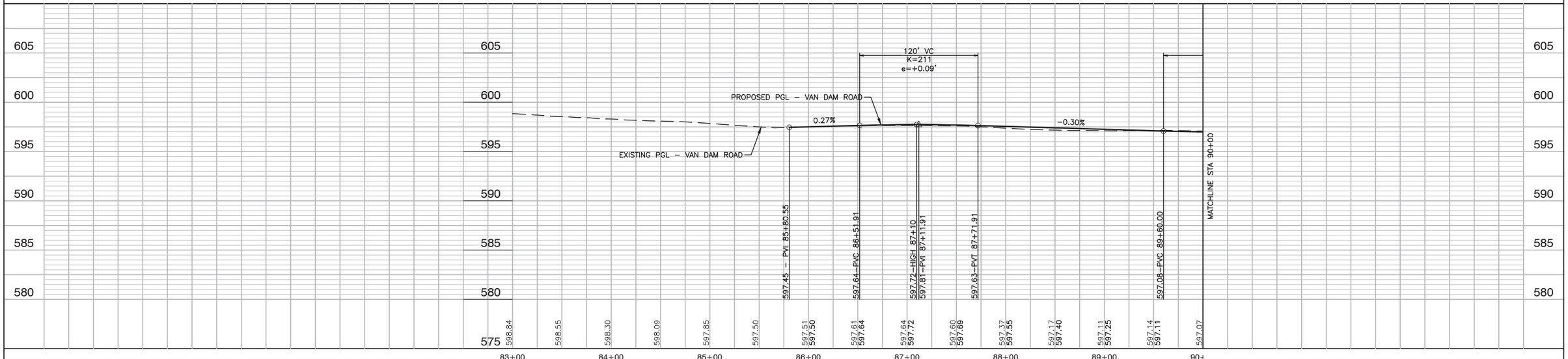
EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

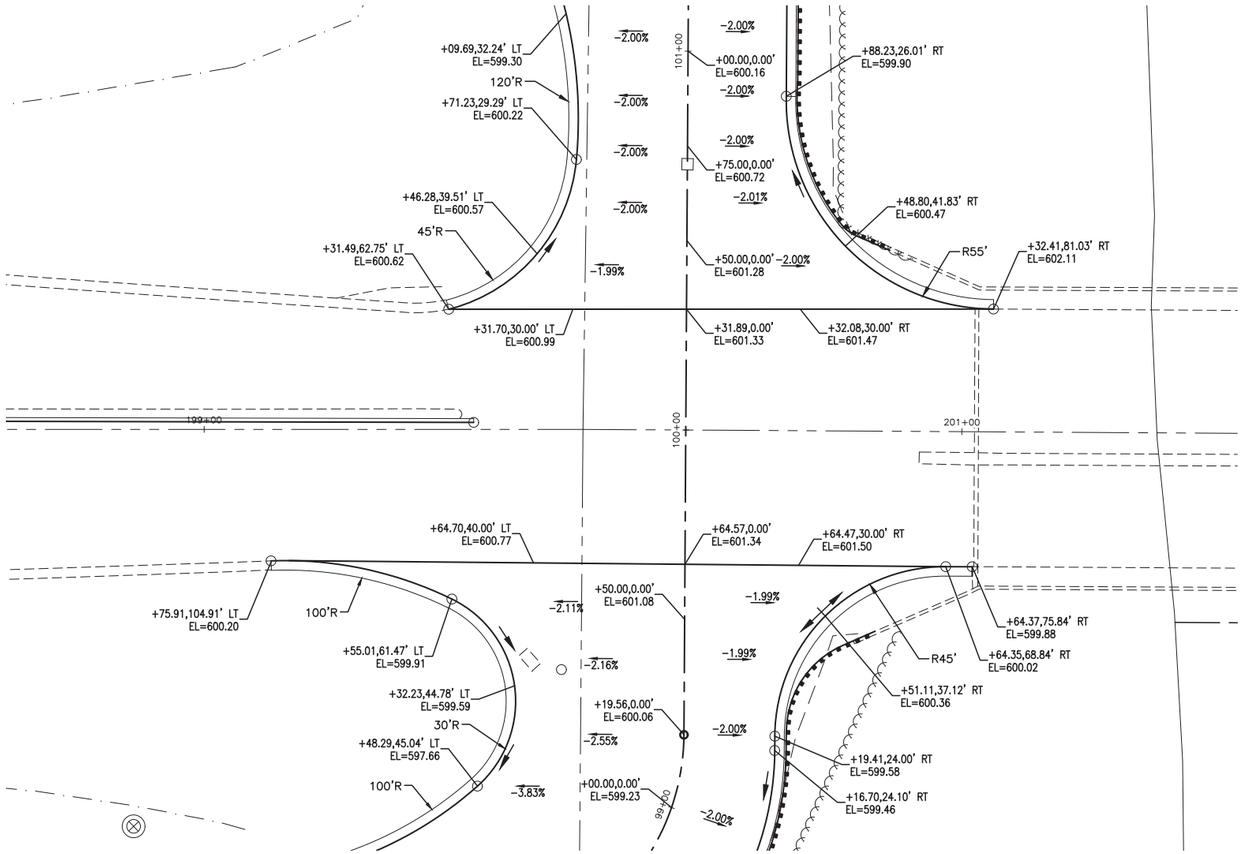
LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- MEDIAN REMOVAL
- MILL AND RESURFACE, 2"
- CONCRETE C&G REMOVAL
- (CG) CURB & GUTTER, TYPE B–6.24
- (CM) CONCRETE MEDIAN, TYPE SB–6.12
- (DW) HMA DRIVEWAY (COMMERCIAL ENTRANCE) 8" –HMA SURFACE COURSE, MIX "D", N50, 2" –HMA BINDER COURSE, IL–19.0, N50, 6" –AGGREGATE BASE COURSE, TYPE B, 6"
- (A1) HMA SURFACE COURSE, MIX "D", N70, 1½" HMA BINDER COURSE, IL–19.0, N70, 8½" AGGREGATE SUBGRADE IMPROVEMENT. 12"
- (A2) HMA SURFACE COURSE, MIX "D", N70, 1½" LEVELING BINDER (MACHINE METHOD) N70, ¾" & VARIES
- (S1) HMA SHOULDERS, 7" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (P) PCC BASE COURSE WIDENING, 12" (SEE SPECIAL PROVISIONS)
- (T) CURB TRANSITION (SEE DETAIL SHEET 15) PAID AS CURB & GUTTER, TYPE B–6.24



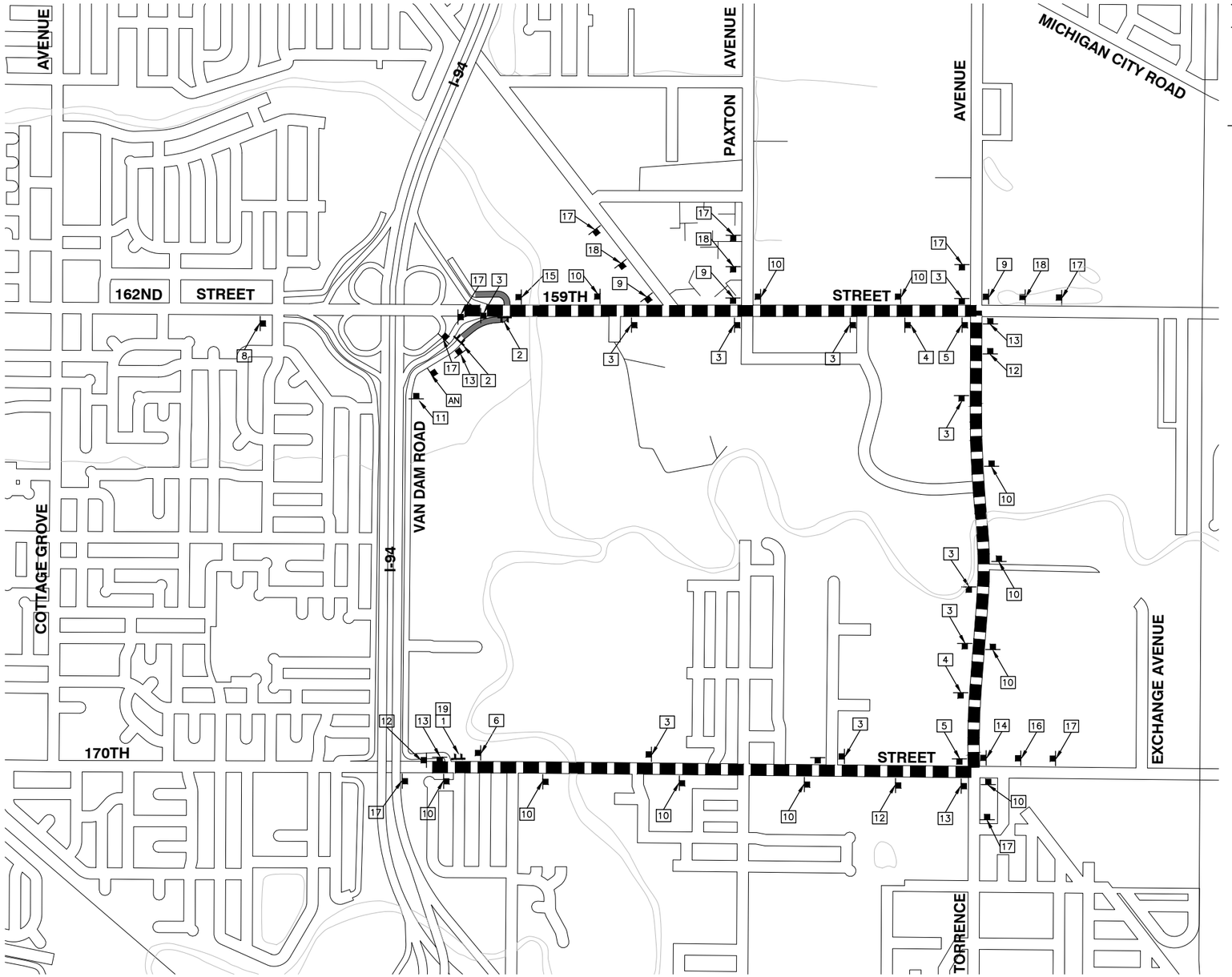
FILE NAME = 12603_02-PLPR-01 - IDOT PLPR04	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS ROADWAY PLAN & PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —					351	14-00103-00-CH	COOK	78	15
	PLOT SCALE =	DRAWN — RG	REVISED —							CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5	SHEET NO. 15 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

N



FILE NAME = 12603_02-PLPR-01 - INTR DTLS	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS INTERSECTION DETAILS
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: 1"=20' | SHEET NO. 16 OF 78 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	16
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



1 — ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"
ON TYPE III BARRICADE

2 — ROAD CLOSED
R11-2
48"X30"
ON TYPE III BARRICADE

3 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9
30"X24"

4 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R(MOD)
30"X24"

5 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R
30"X24"

6 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
END DETOUR
M4-8a
24"X18"

7 — DETOUR 500 FT
W20-2
48"X48"
SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"

9 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L
30"X24"

10 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9
30"X24"

11 — ROAD CLOSED 500 FT
W20-3
48"X48"
NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"

12 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L(MOD)
30"X24"

13 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L
30"X24"

14 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R
30"X24"

15 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
END DETOUR
M4-8a
24"X18"

16 — NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R(MOD)
30"X24"

17 — DETOUR AHEAD
W20-2
48"X48"
Van Dam Rd *
D3-1(O)
36"X9"

18 — SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L(MOD)
30"X24"

19 — DETOUR
M4-10R
48"X18"

LEGEND

- SUGGESTED DETOUR ROUTE
- CONSTRUCTION AREA DURING DETOUR
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN, POST-MOUNTED, PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS
- DIRECTION OF TRAFFIC

* D3-1 SIGNS MUST BE BLACK ON ORANGE BACKGROUND WITH 5" MINIMUM LETTER HEIGHT.

AN — 66" x 48"
ROAD WILL BE CLOSED FROM MMM## THRU MMM
5" D TYPE
5" D TYPE
a — 5" D TYPE (SEE NOTE a)
b — 5" D TYPE (SEE NOTE b)
AN-C100 — 48"X66"

NOTE:
a) OVERLAY PANEL (a) TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.
b) OVERLAY PANEL (b) TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR.

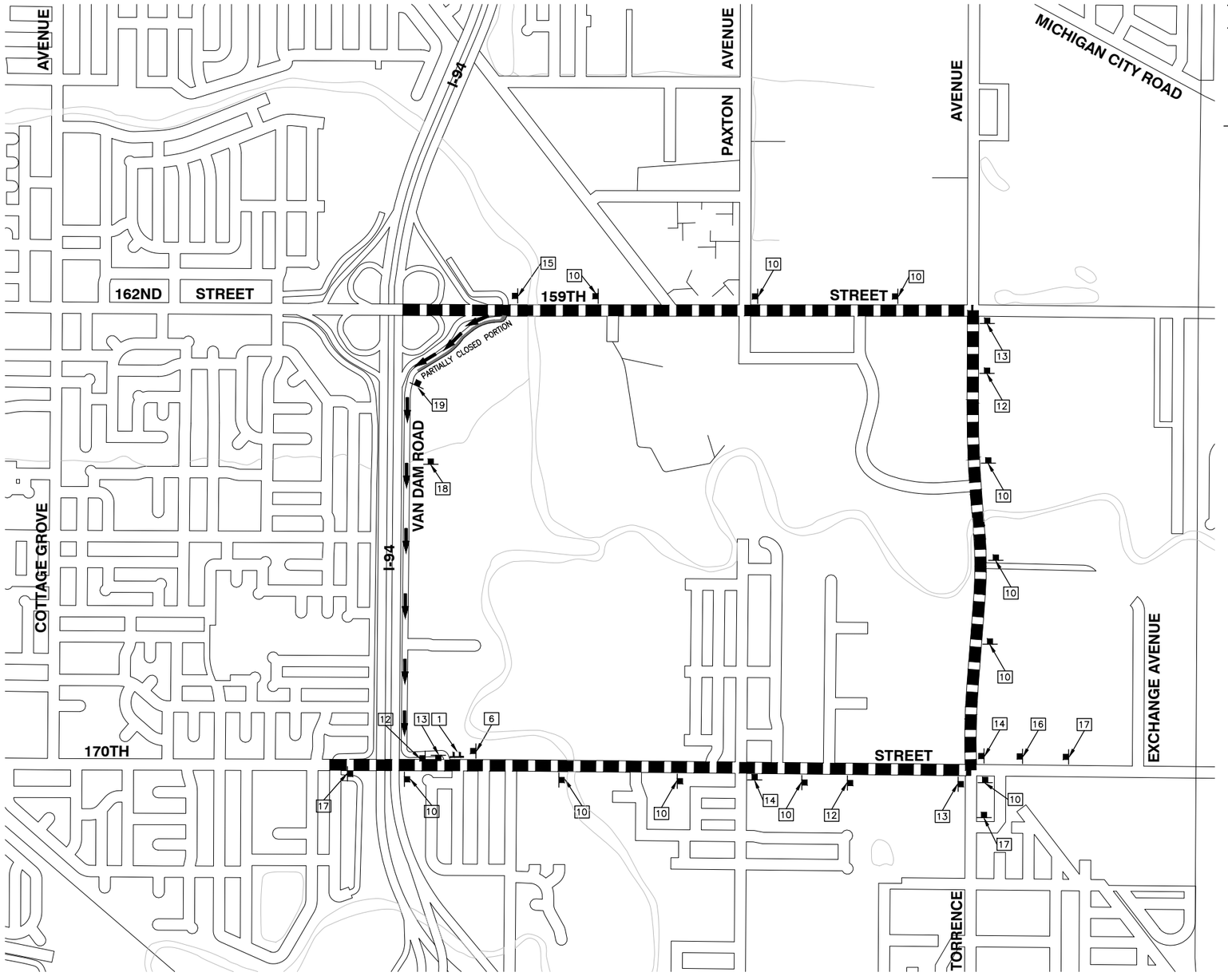
FILE NAME = 12603_02-DETR-01 - STAGE 1	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
DETOUR PLAN - STAGE 1

SCALE: | SHEET NO. 17 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	17
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



1 ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"
DETOUR
M4-10R
48"X18"
ON TYPE III BARRICADE

6 SOUTH
M3-3(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
END DETOUR
M4-8a
24"X18"

10 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9
30"X24"

11 DETOUR 500 FT
W20-2
48"X48"
NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"

12 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L(MOD)
30"X24"

13 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9L
30"X24"

14 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R
30"X24"

15 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
END DETOUR
M4-8a
24"X18"

16 NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"
DETOUR
M4-9R(MOD)
30"X24"

17 DETOUR AHEAD
W20-2
48"X48"
NORTH
M3-1(O)
24"X12"
Van Dam Rd *
D3-1(O)
36"X9"

18 ROAD CLOSED 500 FT
W20-3
48"X48"

19 ROAD CLOSED
R11-2
48"X30"
ON TYPE III BARRICADE

LEGEND

- SUGGESTED DETOUR ROUTE
- CONSTRUCTION AREA DURING DETOUR
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN, POST-MOUNTED, PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS
- DIRECTION OF TRAFFIC

* D3-1 SIGNS MUST BE BLACK ON ORANGE BACKGROUND WITH 5" MINIMUM LETTER HEIGHT.

GENERAL NOTES

1. ONLY HALF OF VAN DAM ROAD WILL BE OPEN DURING CONSTRUCTION WITH SOUTHBOUND TRAFFIC MOVEMENT ONLY.

FILE NAME = 12603_02-DETR-01 - STAGE 2	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
DETOUR PLAN - STAGES 2&3

SCALE: | SHEET NO. 18 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	18
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----

SUGGESTED CONSTRUCTION STAGING NOTES

SUGGESTED CONSTRUCTION STAGING NOTES

- THE CONTRACTOR SHOULD NOTE THE URGENCY OF THIS PROJECT'S CONSTRUCTION SCHEDULE AND SITE CONDITIONS SPECIFIC TO THE EXISTING INTERSECTION.
- THE NORTH LEG OF THE INTERSECTION IS CURRENTLY CLOSED TO ALL TRAFFIC AND CAN BE ASSUMED TO REMAIN CLOSED TO TRAFFIC FOR THE DURATION OF THIS PROJECT'S CONSTRUCTION. THE NORTH LEG WILL BE RECONSTRUCTED AND MODERNIZED FOR EVENTUAL USE.
- HIGH TRUCK USE AND LIMITED AREA MAKES MAINTAINING SOUTH LEG TRAFFIC AT US ROUTE 6 UNFEASIBLE AND REQUIRE EXTREME HARDSHIP TO ADJACENT BUSINESSES. AS SUCH, THE ILLINOIS DEPARTMENT OF TRANSPORTATION HAS GRANTED A COMPLETE CLOSURE OF VAN DAM ROAD AT US ROUTE 6 FOR A PERIOD OF TIME NO GREATER THAN 10 DAYS. THE CONTRACTOR IS REQUIRED TO STAGE CONSTRUCTION IN A MANNER TO FACILITATE THE COMPLETION OF THE SOUTH LEG STAGE 1 WORK ZONE WITHIN THIS TIME LIMIT.
- UPON COMPLETION OF STAGE 1, FURTHER CONSTRUCTION SHALL COMMENCE UNDER A ONE-WAY SOUTHBOUND DETOUR THROUGHOUT STAGE 2 AND STAGE 3.
- CONSTRUCTION ACTIVITIES REQUIRED ON THE EASTBOUND LEFT TURN LANE ALONG US ROUTE 6 AND THE NORTH LEG OF VAN DAM ROAD MAY PROCEED DURING ALL STAGES AND ARE NOT DETAILED WITHIN THESE SUGGESTED CONSTRUCTION STAGING NOTES.

PRE-STAGE CONSTRUCTION

- INSTALL TEMPORARY TRAFFIC SIGNALS AT US ROUTE 6 (162ND STREET) AT VAN DAM ROAD
- PERFORM WATER MAIN ADJUSTMENTS AND RE-ROUTING WITHIN THE INFIELD BETWEEN US ROUTE 6 AND THE SOUTH LEG OF VAN DAM ROAD
- PERFORM PROPOSED STORM SEWER CONSTRUCTION WITHIN THE INFIELD BETWEEN US ROUTE 6 AND THE SOUTH LEG OF VAN DAM ROAD
- PERFORM ANY AVAILABLE ADVANCE WORK FOR PROPOSED TRAFFIC SIGNAL INSTALLATION THAT DOES NOT REQUIRE LANE CLOSURES ON THE SOUTH LEG OF VAN DAM ROAD
- PERFORM ANY PORTIONS OF WORK ON THE NORTH LEG OF VAN DAM ROAD
- ERECT AND COVER ALL REQUIRED SIGNAGE ASSOCIATED WITH THE LOCAL DETOUR ROUTE UTILIZING 170TH STREET AND TORRENCE AVENUE.

PRE-STAGE TRAFFIC CONTROL

- ESTABLISH AND MAINTAIN CLOSURE SIGNAGE ASSOCIATED WITH THE NORTH LEG OF VAN DAM ROAD AND THE WESTBOUND LEFT TURN LANE ON US ROUTE 6

STAGE 1 CONSTRUCTION

- STAGE 1 DURATION SHALL BE NO GREATER THAN 10 DAYS.
- REMOVE ALL EXISTING PAVEMENT, GUARDRAIL, STORM SEWERS AND OTHER MATERIALS CALLED OUT ON THE SOUTH LEG OF VAN DAM ROAD FROM US ROUTE 6 TO APPROXIMATE STATION 94+75.
- CONSTRUCT PROPOSED DRAINAGE, PAVEMENT AND PROPOSED TRAFFIC SIGNAL COMPONENTS CALLED OUT ON THE SOUTH LEG OF VAN DAM ROAD FROM US ROUTE 6 TO APPROXIMATE STATION 94+75.
- PERFORM MEDIAN ADJUSTMENTS TO THE WESTBOUND LEFT TURN LANE ALONG US ROUTE 6.
- INSTALL TEMPORARY PAVEMENT STRIPING ON THE SOUTH LEG OF VAN DAM ROAD REFLECTING THE STAGE 2 TRAFFIC CONFIGURATION.

STAGE 1 TRAFFIC CONTROL

- ESTABLISH AND MAINTAIN THE LOCAL DETOUR ROUTE UTILIZING 170TH STREET AND TORRENCE AVENUE.
- ESTABLISH AND MAINTAIN CLOSURE SIGNAGE ASSOCIATED WITH BOTH US ROUTE 6 LEFT TURN LANES AND BOTH LEGS OF VAN DAM ROAD.

STAGE 2 CONSTRUCTION

- REVISE DETOUR SIGNAGE TO NOW ALLOW SOUTHBOUND TRAVEL ALONG VAN DAM ROAD FROM US ROUTE 6 TO 170TH STREET.
- CONSTRUCT PROPOSED DRAINAGE AND PAVEMENT ON THE NORTH HALF OF VAN DAM ROAD FROM APPROXIMATE STATION 94+75 TO THE SOUTH PROJECT LIMIT.
- PERFORM INCIDENTAL CURB AND GUTTER REMOVAL AND TEMPORARY PAVEMENT CONSTRUCTION SHOWN AT THE SOUTH PROJECT LIMIT.
- REVISE TEMPORARY PAVEMENT STRIPING ON THE SOUTH LEG OF VAN DAM ROAD REFLECTING THE STAGE 3 TRAFFIC CONFIGURATION

  NOTE: STAGE 2 CONSTRUCTION ENCOMPASSES A SUPERELEVATED SECTION OF VAN DAM ROAD. RECONSTRUCTED PAVEMENT COMPLETED IN THIS STAGE SHALL ONLY RECEIVE ITS FIRST SIX INCHES (6") HMA BINDER COURSE DURING THIS STAGE. FINAL BINDER AND SURFACE COURSES FOR THIS AREA SHALL BE COMPLETED AT THE COMPLETION OF STAGE 3 IN ORDER TO SOFTEN THE TRANSITION FOR MOTORISTS ACCESSING THE DRIVEWAY AT STATION 91+75.

STAGE 2 TRAFFIC CONTROL

- ESTABLISH AND MAINTAIN THE LOCAL DETOUR ROUTE UTILIZING 170TH STREET AND TORRENCE AVENUE, NOW ALLOWING SOUTHBOUND TRAFFIC ON THE SOUTH LEG OF VAN DAM ROAD.
- SOUTH LEG VAN DAM ROAD – MAINTAIN 1–11' SOUTHBOUND LANE ON THE SOUTH HALF OF THE EXISTING PAVEMENT.

STAGE 3 CONSTRUCTION

- CONSTRUCT PROPOSED DRAINAGE AND PAVEMENT ON THE SOUTH HALF OF VAN DAM ROAD FROM APPROXIMATE STATION 94+75 TO THE SOUTH PROJECT LIMIT

STAGE 3 TRAFFIC CONTROL

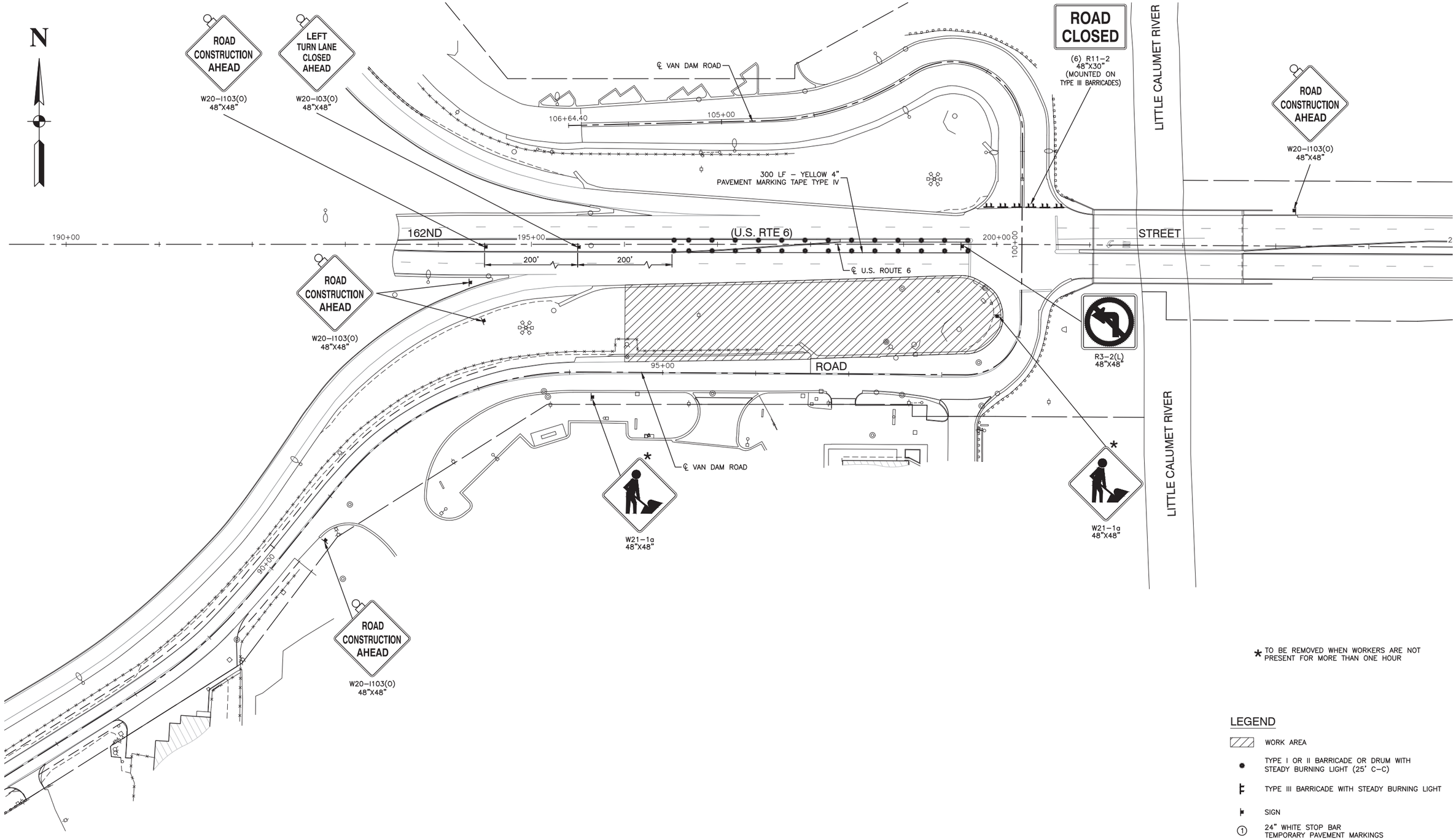
- ESTABLISH AND MAINTAIN THE LOCAL DETOUR ROUTE UTILIZING 170TH STREET AND TORRENCE AVENUE, ALLOWING SOUTHBOUND TRAFFIC ON THE SOUTH LEG OF VAN DAM ROAD.
- SOUTH LEG VAN DAM ROAD – MAINTAIN 1–11' SOUTHBOUND LANE ON THE NORTH HALF OF THE EXISTING PAVEMENT.

STAGE 4 CONSTRUCTION [NOT ILLUSTRATED]

- REMOVE ALL DETOUR SIGNAGE AND RE-INSTITUTE TWO-WAY TRAVEL ON VAN DAM ROAD.
- REMOVE TEMPORARY PAVEMENT AND CONSTRUCTION INCIDENTAL CURB AND GUTTER.
- INSTALL PERMANENT TRAFFIC SIGNALS AND REMOVE TEMPORARY TRAFFIC SIGNALS.
- PLACE REMAINING BINDER AND SURFACE COURSE.
- PLACE FINAL PAVEMENT MARKINGS.
- POST FINAL SIGNAGE.

STAGE 4 TRAFFIC CONTROL

- THE WORK TO BE PERFORMED IN STAGE 4 MAY BE COMPLETED USING HIGHWAY STANDARDS 701101, 701501 AND 701701.



* TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

LEGEND

- WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (25' C-C)
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN
- ① 24" WHITE STOP BAR TEMPORARY PAVEMENT MARKINGS
- ② 6" WHITE LANE LINE TEMPORARY PAVEMENT MARKINGS
- ③ 4" DOUBLE YELLOW CENTERLINE (11" C-C) TEMPORARY PAVEMENT MARKINGS
- ④ LETTERS AND SYMBOLS TEMPORARY PAVEMENT MARKINGS

FILE NAME = 12603_02-TCON-00 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

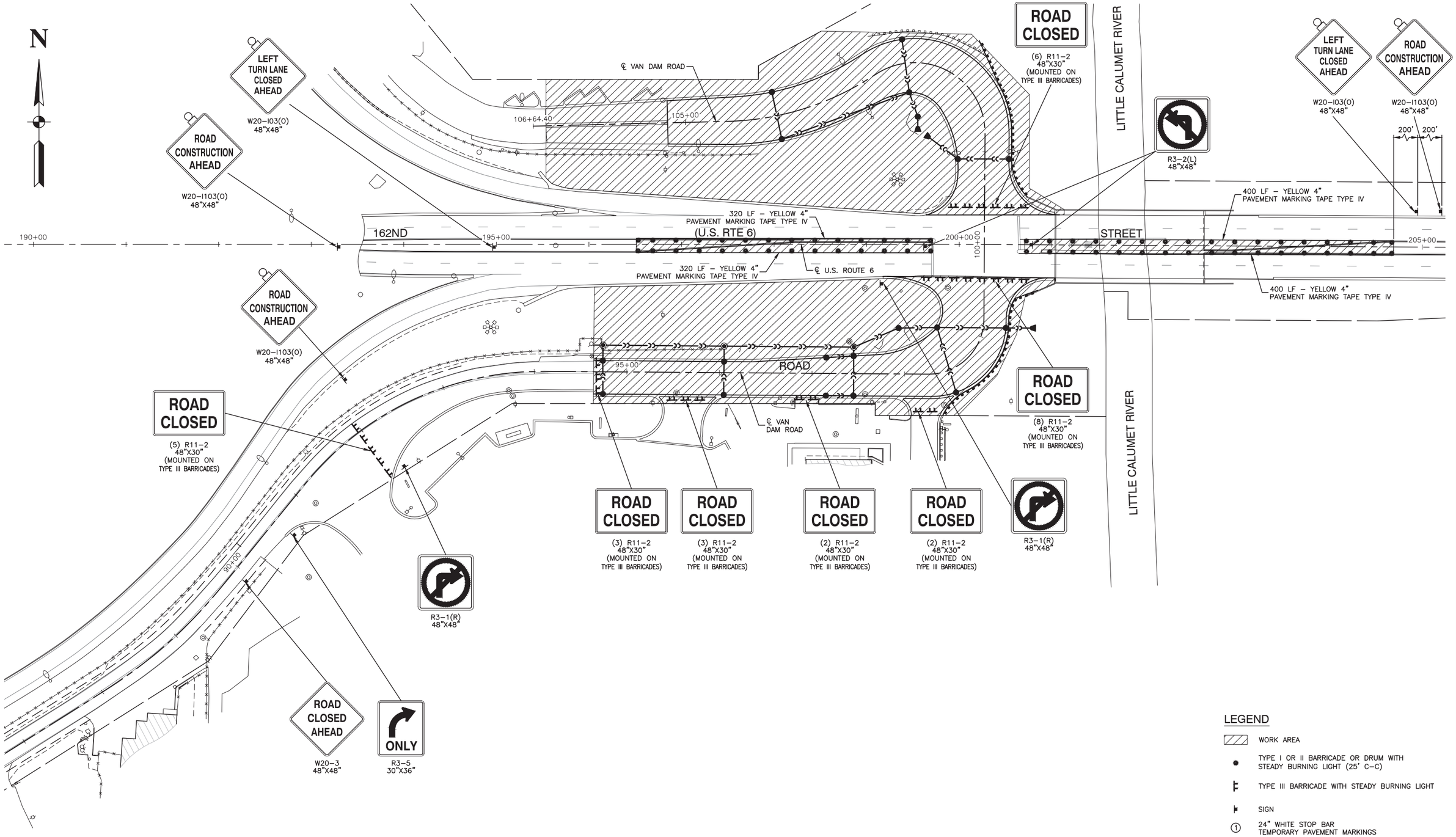
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - PRE-STAGE

SCALE: 1"=50' | SHEET NO. 20 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	20
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



LEGEND

- WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (25' C–C)
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN
- ① 24" WHITE STOP BAR TEMPORARY PAVEMENT MARKINGS
- ② 6" WHITE LANE LINE TEMPORARY PAVEMENT MARKINGS
- ③ 4" DOUBLE YELLOW CENTERLINE (11" C–C) TEMPORARY PAVEMENT MARKINGS
- ④ LETTERS AND SYMBOLS TEMPORARY PAVEMENT MARKINGS

FILE NAME = 12603_02-TCON-01 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - STAGE 1

SCALE: 1"=50' | SHEET NO. 21 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	21
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----

N

ROAD CONSTRUCTION AHEAD
W20-I103(O)
48"X48"

LEFT TURN LANE CLOSED AHEAD
W20-I03(O)
48"X48"

ROAD CLOSED
(6) R11-2
48"X30"
(MOUNTED ON
TYPE III BARRICADES)

℄ VAN DAM ROAD

106+64.40

105+00

LITTLE CALUMET RIVER

320 LF - YELLOW 4"
PAVEMENT MARKING TAPE TYPE IV
(U.S. RTE 6)

190+00

162ND

195+00

200+00

100+00

STREET

200'

320 LF - YELLOW 4"
PAVEMENT MARKING TAPE TYPE IV

℄ U.S. ROUTE 6

5.5'

DO NOT ENTER
R5-1
30"X30"

BEGIN ONE WAY
R6-6
24"X30"

STA 96+91.14
2.13 L

+66

95+00

ROAD

R3-2(L)
48"X48"

YELLOW

+64

℄ VAN
DAM ROAD

WORK ZONE
W2-I115(O)
36"X18"

SPEED LIMIT 30
R2-1
36"X48"

$375 FINE MINIMUM
R2-I106p
36"X18"

W21-1a
48"X48"

ROAD CONSTRUCTION AHEAD
W20-I103(O)
48"X48"
(FOR I-94 RAMP)

DO NOT ENTER
R5-1
30"X30"

R3-2(R)
48"X48"

DO NOT ENTER
R5-1
30"X30"

ONE WAY
R6-1(L)
36"X12"

ONE WAY
R6-1(L)
36"X12"

ONE WAY
R6-1(L)
36"X12"

ONLY
R3-5(O)
30"X36"

ONE WAY
R6-1(L)
36"X12"

R3-2(R)
48"X48"

END WORK ZONE SPEED LIMIT
G20-I102
60"X36"

ROAD CLOSED
(1) R11-2
48"X30"
(MOUNTED ON
TYPE III BARRICADES)

END ONE WAY
R6-7
24"X30"

R3-2(R)
48"X48"

DO NOT ENTER
R5-1
30"X30"

ONE WAY
R6-1(L)
36"X12"

R3-2(R)
48"X48"

ONE WAY
R6-1(L)
36"X12"

DO NOT ENTER
R5-1
30"X30"

R3-2(R)
48"X48"

85+00

+82

+81

VAN DAM

00+00

* TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

LEGEND

- WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (25' C-C)
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN
- ARROW BOARD
- ① 24" WHITE STOP BAR TEMPORARY PAVEMENT MARKINGS
- ② 6" WHITE LANE LINE TEMPORARY PAVEMENT MARKINGS
- ③ 4" DOUBLE YELLOW CENTERLINE (11" C-C) TEMPORARY PAVEMENT MARKINGS
- ④ LETTERS AND SYMBOLS TEMPORARY PAVEMENT MARKINGS

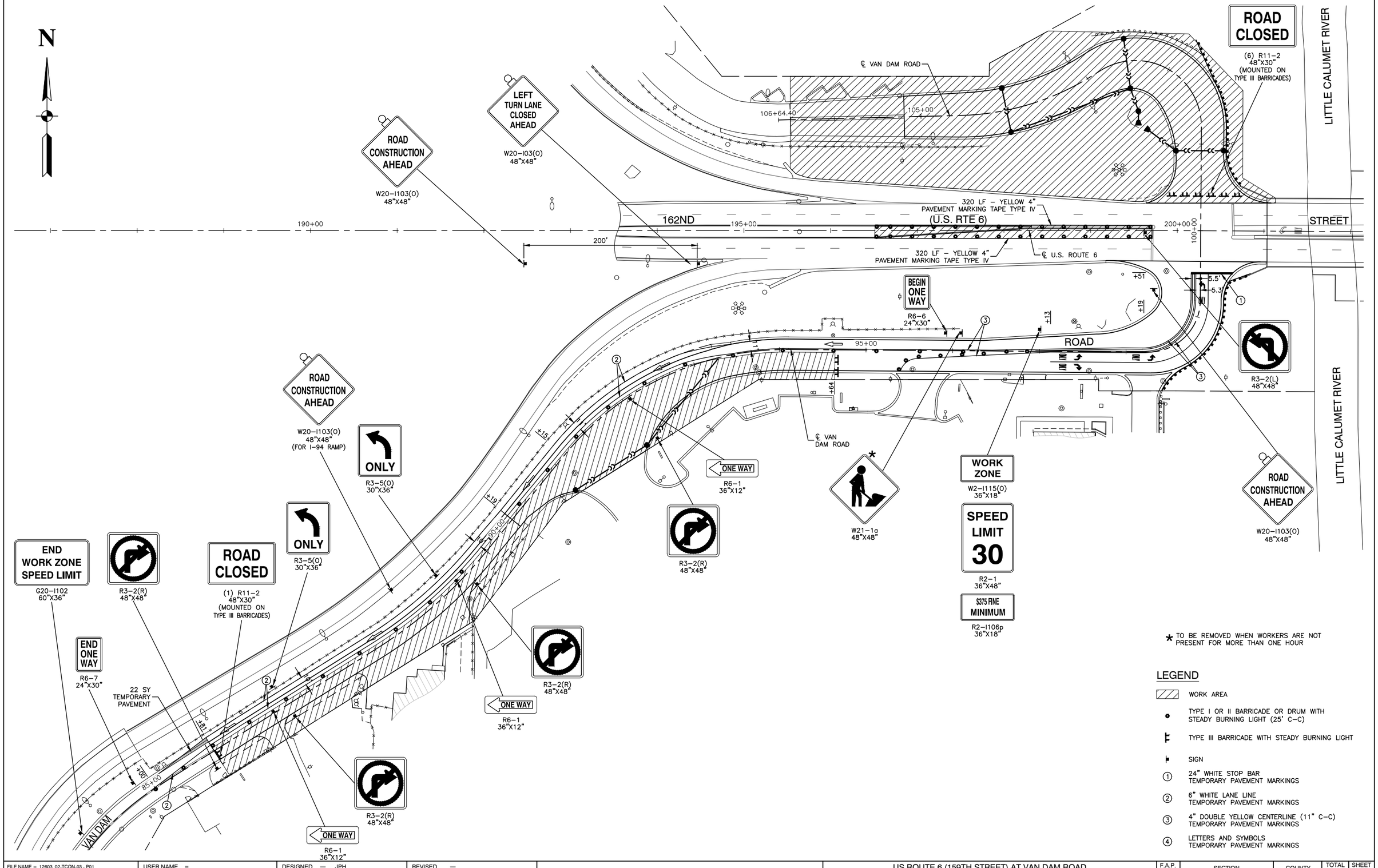
FILE NAME = 12603_02-TCON-02 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - STAGE 2

SCALE: 1"=50' | SHEET NO. 22 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	22
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



* TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

LEGEND

- WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (25' C-C)
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN
- ① 24" WHITE STOP BAR TEMPORARY PAVEMENT MARKINGS
- ② 6" WHITE LANE LINE TEMPORARY PAVEMENT MARKINGS
- ③ 4" DOUBLE YELLOW CENTERLINE (11" C-C) TEMPORARY PAVEMENT MARKINGS
- ④ LETTERS AND SYMBOLS TEMPORARY PAVEMENT MARKINGS

FILE NAME = 12603_02-TCON-03 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

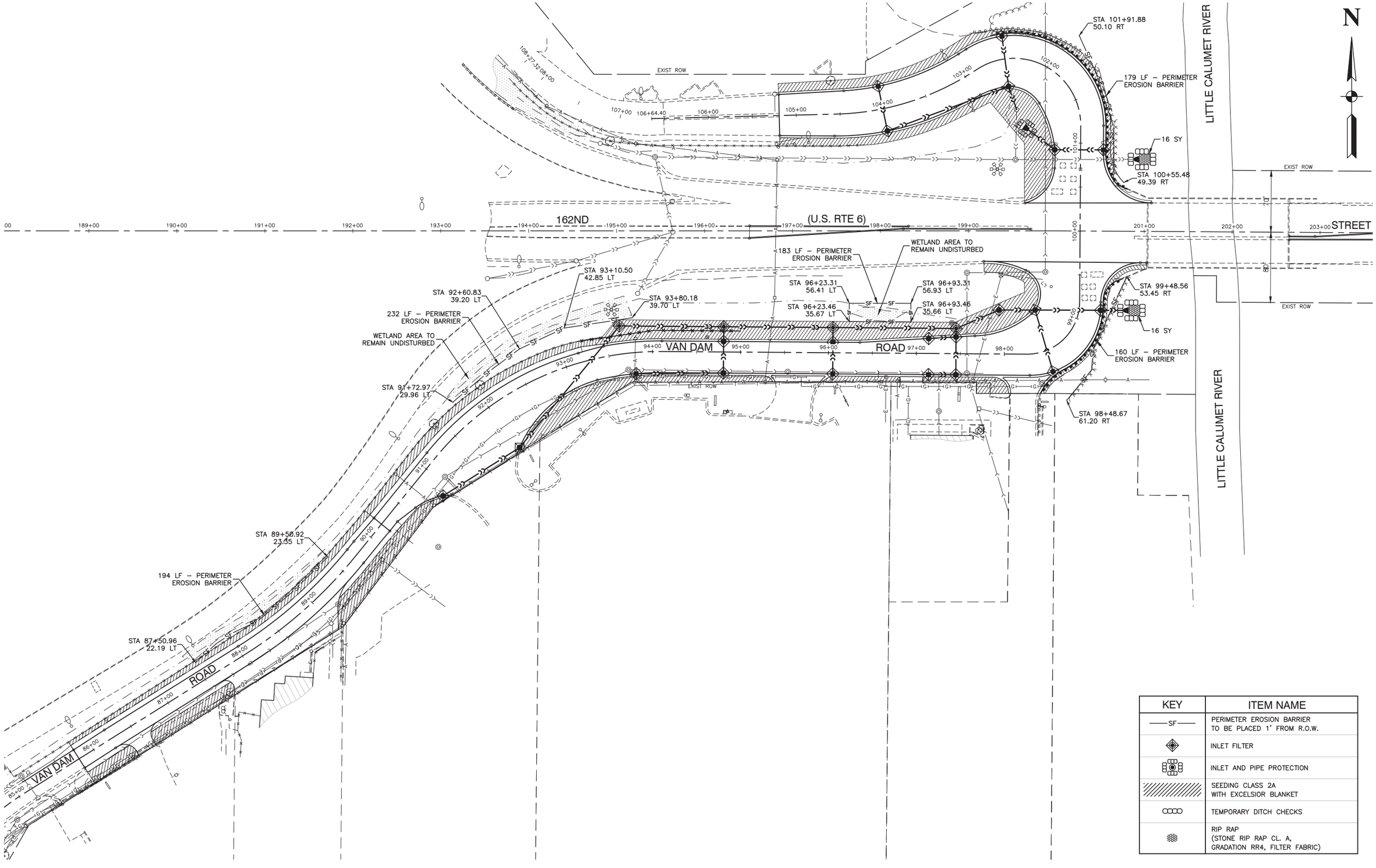
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - STAGE 3

SCALE: 1"=50' | SHEET NO. 23 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	23
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED 1' FROM R.O.W.
	INLET FILTER
	INLET AND PIPE PROTECTION
	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
	TEMPORARY DITCH CHECKS
	RIP RAP (STONE RIP RAP CL. A, GRADATION RR4, FILTER FABRIC)

FILE NAME = 12603_02-LNSC-01 - P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

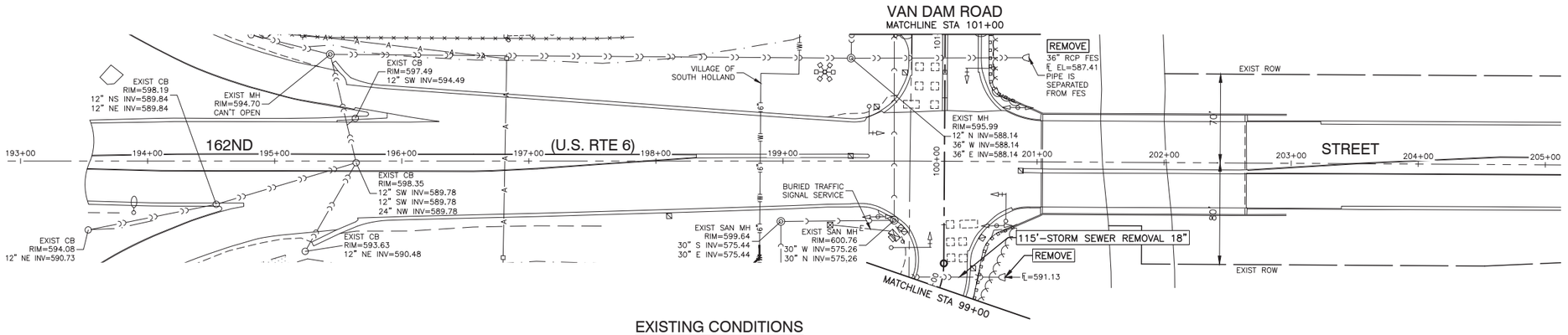
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
LANDSCAPING & EROSION CONTROL

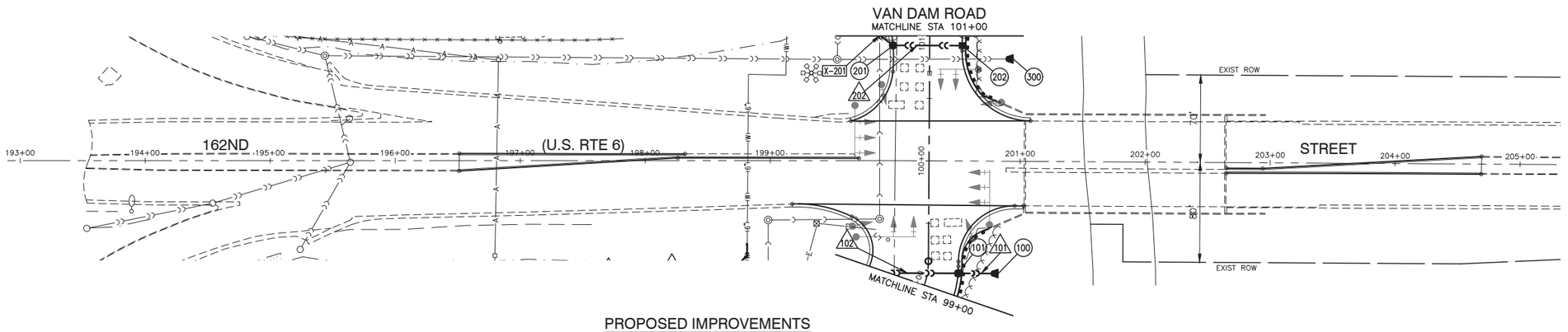
SCALE: 1"=50' | SHEET NO. 24 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	24
		CONTRACT NO. 61F21		

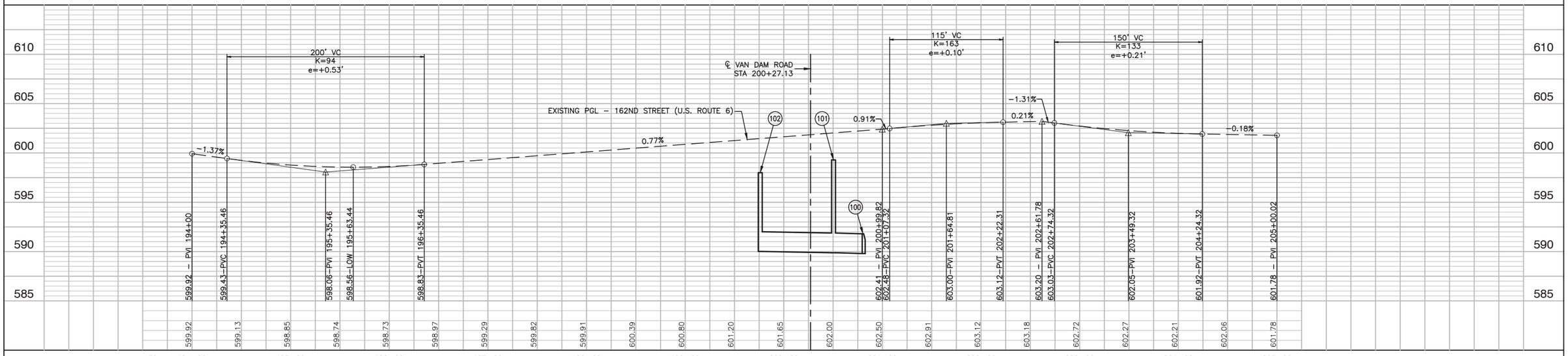
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



100
STA 99+14.63, 56.27' RT
PRECAST CONCRETE FES 24"
24" ℄ EL=589.80

101
STA 99+12.75, 24.35' RT
CB TA, 4' DIA, T24 F&G
RIM EL=599.29
W 24" INV=589.88
E 24" INV=589.88

201
STA 100+92.20, 29.35' LT
CB TA, 4' DIA, T24 F&G
RIM EL=599.74
E 12" INV=595.90
NW 12" INV=594.10

202
STA 100+92.41, 26.00' RT
INLETS TA, T24 F&G
RIM EL=599.81
W 12" INV=596.21

300
STA 100+81.96, 66.85' RT
PRECAST CONCRETE FES 36"
36" ℄ EL=587.41

△101 33'-24" RCP @ 0.24% (7.3)

△102 74'-24" RCP @ 0.18% (101.8)

△202 56'-12" RCP @ 0.55% (13.2)

X-201 12" STM INV=593.5±
30" SAN T/P=578.1±

NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED STORM SEWER TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF THE STORM SEWER.

FILE NAME = 12603_02-UTIL-01 - IDOT PLPR01

USER NAME =	DESIGNED — JPH	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — RG	REVISED —
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

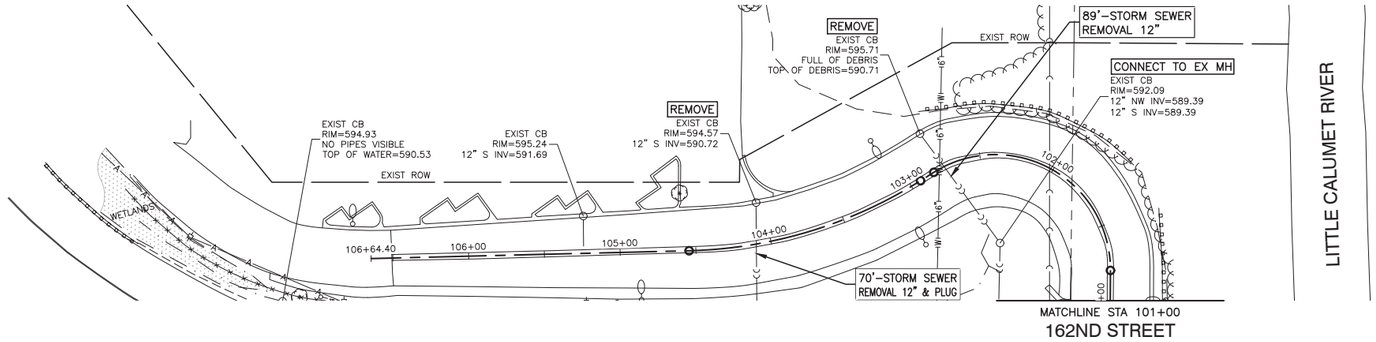
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
DRAINAGE & UTILITIES

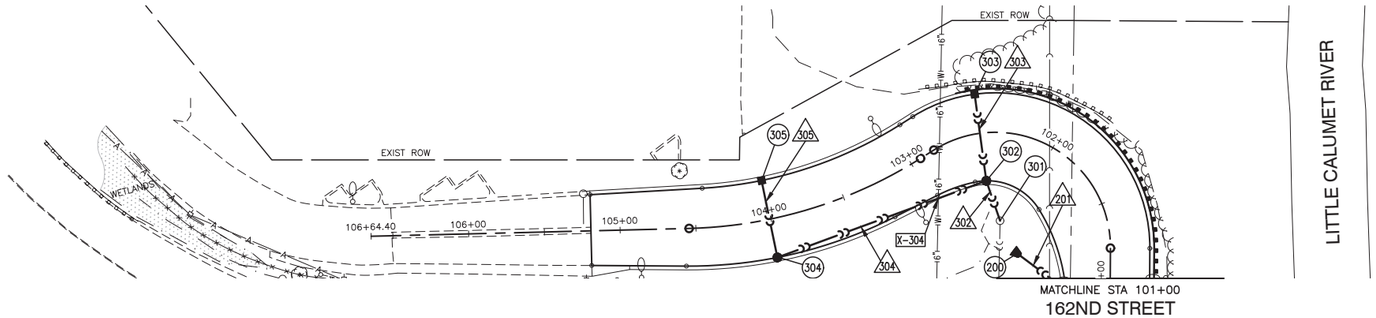
SCALE: H 1"=50' V 1"=5' | SHEET NO. 25 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	25
		CONTRACT NO. 61F21		

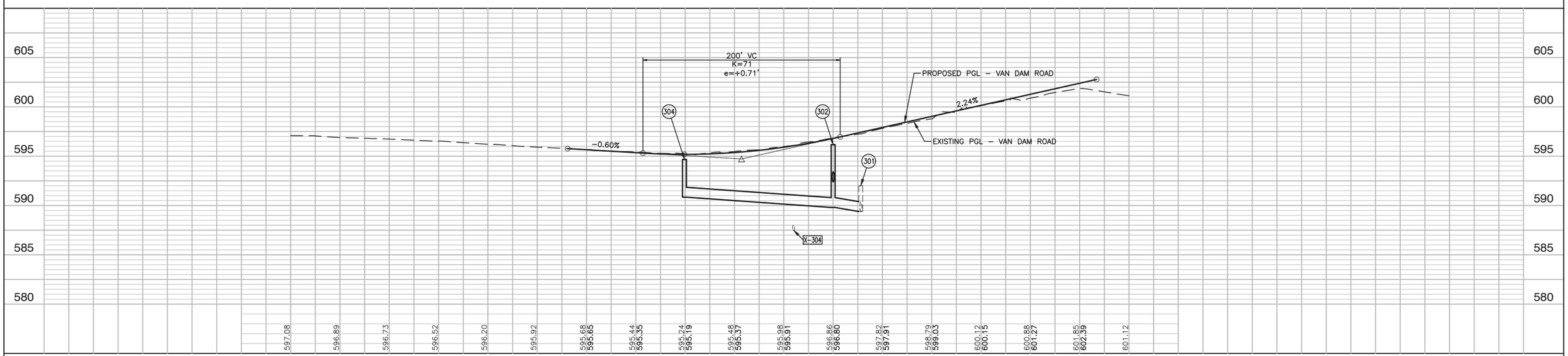
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



(200)
STA 101+17.97, 64.05' LT
PRECAST CONCRETE FES 12"
12" ℄ EL=592.30

(301)
STA 102+25.56, 58.01' LT
EXISTING MANHOLE
RIM EL=592.09
NW 12" INV=589.39
S 12" INV=589.39

(302)
STA 102+50.00, 31.63' LT
CB TA, 4' DIA, T24 F&G
RIM EL=596.17
NW 12" INV=592.40
SW 12" INV=589.80
SE 12" INV=589.80

(303)
STA 102+50.00, 26.00' RT
INLETS TA, T24 F&G
RIM EL=596.28
SE 12" INV=592.68

(304)
STA 104+00.98, 25.74' LT
CB TA, 4' DIA, T24 F&G
RIM EL=594.67
NW 12" INV=590.84
NE 12" INV=590.84

(305)
STA 104+00.98, 26.11' RT
INLETS TA, T24 F&G
RIM EL=594.67
SE 12" INV=591.07

△201 44'–12" RCP @ 4.09% (3.3)
△302 28'–12" RCP @ 1.50% (4.0)
△303 58'–12" RCP @ 0.48% (13.7)
△304 147'–12" RCP @ 0.71% (56.3)
△305 52'–12" RCP @ 0.44% (12.3)

X-304 (ADJUSTING WATER MAIN 6")
12" STM INV=590.0±
DIP 6" DIWM T/P=588.0±

NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED STORM SEWER TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF THE STORM SEWER.

FILE NAME = 12603_02-UTIL-01 - IDOT PLPR02	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

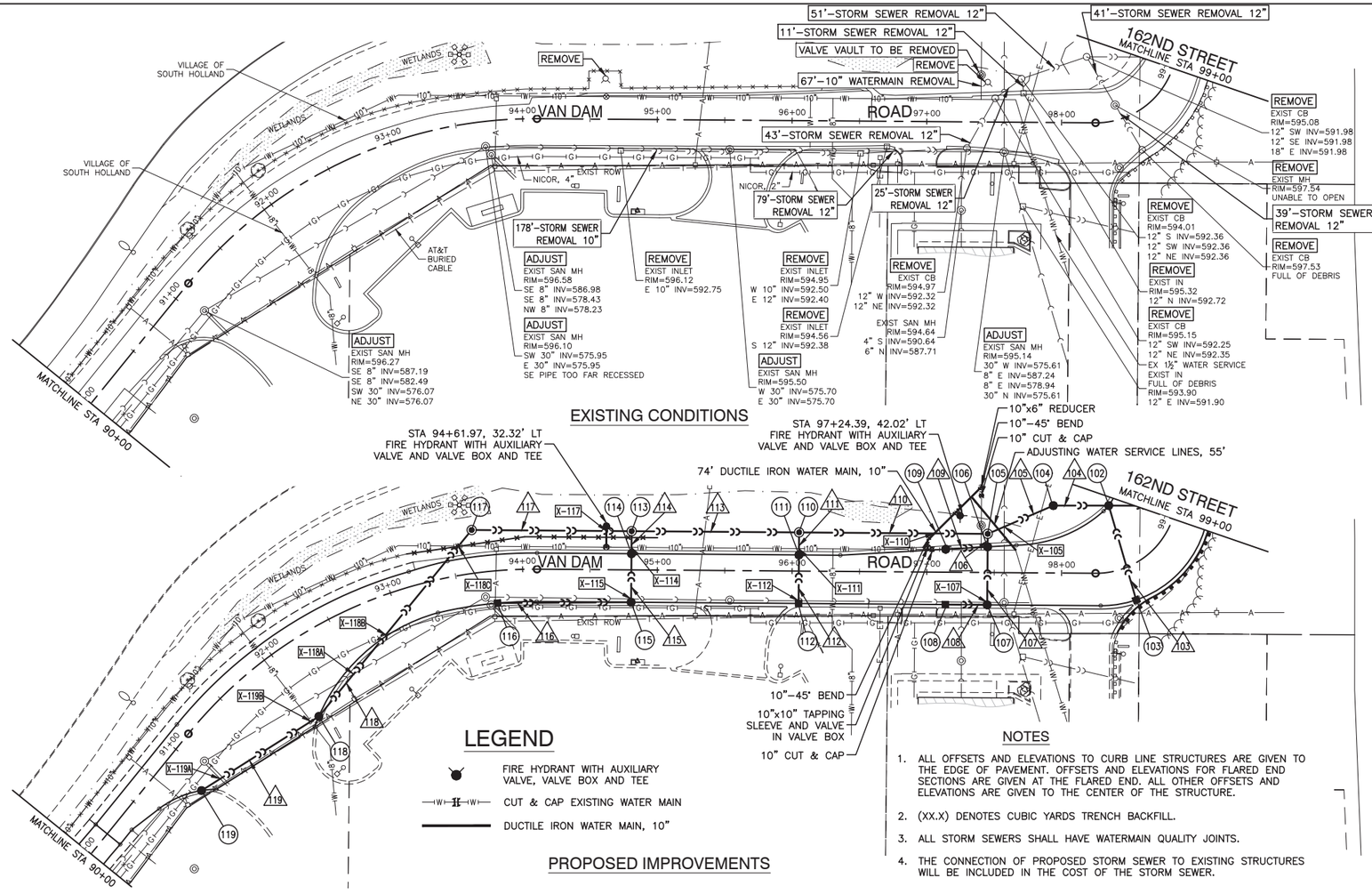
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
DRAINAGE & UTILITIES

SCALE: H 1"=50' V 1"=5 | SHEET NO. 26 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	26
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED STORM SEWER TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF THE STORM SEWER.

(102) STA 98+71.50, 46.47' LT
CB TA, 5' DIA, T24 F&G
RIM EL=598.10
SE 12" INV=592.60
W 24" INV=590.01
E 24" INV=590.01

(103) STA 98+47.24, 25.21' RT
INLETS TA, T24 F&G
RIM EL=596.69
NW 12" INV=593.00

(104) STA 97+93.51, 50.00' LT
CB TA, 4' DIA, T8 F&G
RIM EL=595.10
SW 24" INV=590.08
E 24" INV=590.08

(105) STA 97+45.00, 28.71' LT
MH TA, 4' DIA, T1F OP
RIM EL=594.60
S 12" INV=590.50
W 18" INV=590.18
NE 24" INV=590.18

(106) STA 97+45.00, 19.03' LT
CB TA, 4' DIA, T24 F&G
RIM EL=594.77
W 12" INV=590.62
S 12" INV=590.62
N 12" INV=590.62

(107) STA 97+45.00, 24.00' RT
CB TA, 4' DIA, T24 F&G
RIM EL=594.67
W 12" INV=590.81
N 12" INV=590.81

(108) STA 97+13.91, 24.00' RT
INLETS TA, T24 F&G
RIM EL=594.55
E 12" INV=590.95

(109) STA 97+13.91, 17.03' LT
INLETS TA, T24 F&G
RIM EL=594.69
E 12" INV=591.09

(110) STA 96+05.00, 28.71' LT
MH TA, 4' DIA, T1F OP
RIM EL=594.70
S 12" INV=591.20
W 18" INV=590.54
E 18" INV=590.54

(111) STA 96+05.00, 12.00' LT
CB TA, 4' DIA, T24 F&G
RIM EL=595.36
S 12" INV=591.36
N 12" INV=591.36

(112) STA 96+05.00, 24.00' LT
INLETS TA, T24 F&G
RIM EL=595.12
N 12" INV=591.52

(113) STA 94+80.70, 28.78' LT
MH TA, 4' DIA, T1F OP
RIM EL=594.90
S 12" INV=590.90
W 15" INV=590.90
E 18" INV=590.90

(114) STA 94+80.70, 12.00' LT
CB TA, 4' DIA, T24 F&G
RIM EL=596.34
S 12" INV=592.04
N 12" INV=591.10

(115) STA 94+80.70, 24.00' RT
CB TA, 4' DIA, T24 F&G
RIM EL=595.86
N 12" INV=592.20
W 12" INV=592.20

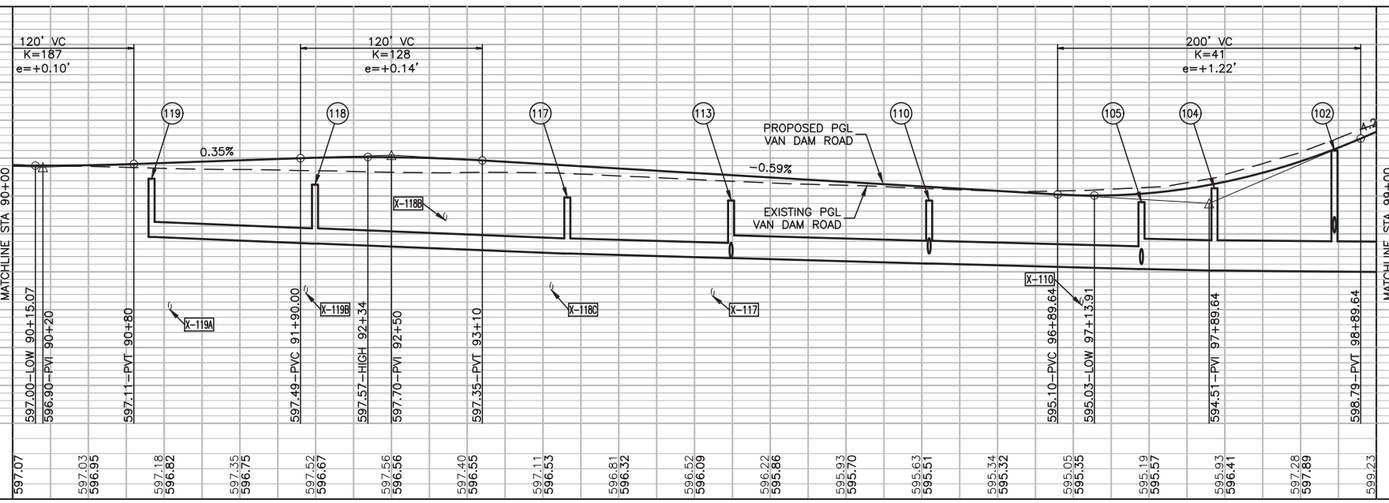
(116) STA 93+79.31, 24' RT
INLETS TA, T24 F&G
RIM EL=595.64
E 12" INV=592.64

(117) STA 93+66.05, 31.91' LT
MH TA, 4' DIA, T1F OP
RIM EL=594.90
SW 15" INV=591.29
E 15" INV=591.29

(118) STA 92+01.86, 57.67' RT
CB TA, 4' DIA, T11 F&G
RIM EL=595.75
SW 12" INV=591.86
NE 15" INV=591.86

(119) STA 90+88.29, 34.21' RT
CB TA, 4' DIA, T11 F&G
RIM EL=596.30
SW 12" INV=592.31
NE 12" INV=592.31

△103 74'-12" RCP @ 0.54% (23.7)
△104 42'-24" RCP @ 0.17% (6.1)
△105 53'-24" RCP @ 0.19% (0.0)
△106 10'-12" RCP @ 1.20% (1.4)
△107 43'-12" RCP @ 0.44% (11.1)
△108 31'-12" RCP @ 0.44% (7.3)
△109 31'-12" RCP @ 1.52% (8.0)
△110 140'-18" RCP @ 0.26% (0.0)
△111 17'-12" RCP @ 0.94% (1.3)
△112 36'-12" RCP @ 0.44% (8.5)
△113 124'-18" RCP @ 0.29% (0.0)
△114 17'-12" RCP @ 1.18% (1.9)
△115 36'-12" RCP @ 0.44% (9.3)
△116 99'-12" RCP @ 0.44% (19.2)
△117 119'-15" RCP @ 0.33% (0.0)
△118 179'-15" RCP @ 0.32% (40.9)
△119 103'-12" RCP @ 0.44% (26.5)



PIPE UNDERDRAIN, TYPE 2, 4"

105+19 LT TO 104+01 LT – 123 LF
105+19 RT TO 104+01 RT – 114 LF
104+01 LT TO 102+50 LT – 148 LF
104+01 RT TO 102+50 RT – 153 LF
102+50 LT TO 100+92 LT – 98 LF
102+50 RT TO 100+92 RT – 203 LF
100+92 LT TO 100+30 LT – 106 LF
100+92 RT TO 100+30RT – 92 LF
100+03 LT TO 98+72 LT – 103 LF
100+03 RT TO 99+13 RT – 80 LF
98+72 LT TO 97+45 LT – 98 LF
99+13 RT TO 98+47 RT – 94 LF
98+47 RT TO 97+45 RT –111 LF
97+17 LT TO 96+05 LT – 109 LF
97+14 RT TO 96+05 RT – 109 LF
96+05 LT TO 94+81 LT – 124 LF
96+05 RT TO 94+81 RT – 124 LF
93+79 RT TO 92+02 RT – 166 LF
92+02 RT TO 90+89 RT – 103 LF
90+89 RT TO 90+19 RT – 73 LF

X-105 24" STM INV=590.1±
30" SAN T/P=578.3±

X-107 12" STM INV=590.8±
30" SAN T/P=578.4±

X-110 18" STM INV=590.3±
DIP 10" WM T/P=588.3±

X-111 (ADJUSTING WATER MAIN 10")
12" STM INV=591.3±
DIP 10" WM T/P=589.3±

X-112 12" STM INV=591.5±
30" SAN T/P=578.5±

X-114 (ADJUSTING WATER MAIN 10")
12" STM INV=590.9±
DIP 10" WM T/P=588.9±

X-115 (POTENTIAL CONFLICT)
12" STM INV=592.2±
30" SAN T/P=578.7±
4" GAS T/P=594.0± (ASSUME 30" DEPTH)

X-117 15" STM INV=590.9±
6" HYD TEE T/P=588.9±

X-118A 15" STM INV=591.7±
30" SAN T/P=578.8±

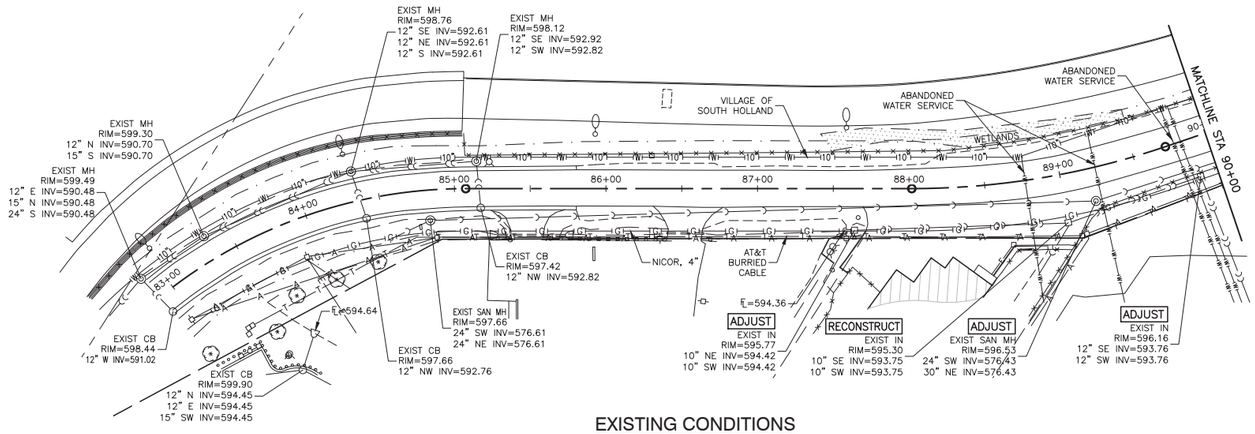
X-118B (POTENTIAL CONFLICT)
15" STM INV=591.6±
4" GAS T/P=593.9± (ASSUME 30" DEPTH)

X-118C (ADJUSTING WATER MAIN 10")
15" STM INV=591.3±
DIP 10" WM T/P=589.3±

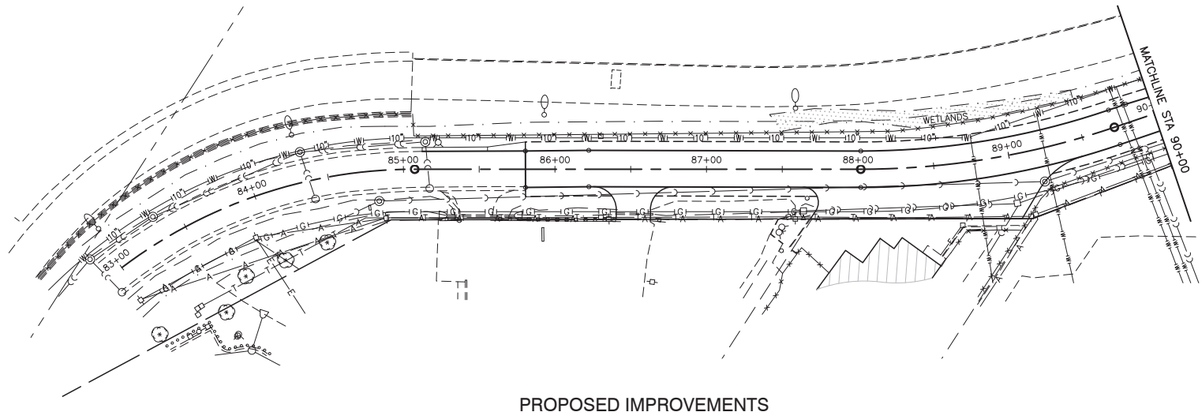
X-119A 12" STM INV=592.2±
8" SAN T/P=588.1±

X-119B (ADJUSTING WATER MAIN 8")
12" STM INV=591.9±
DIP 8" WM T/P=589.9±

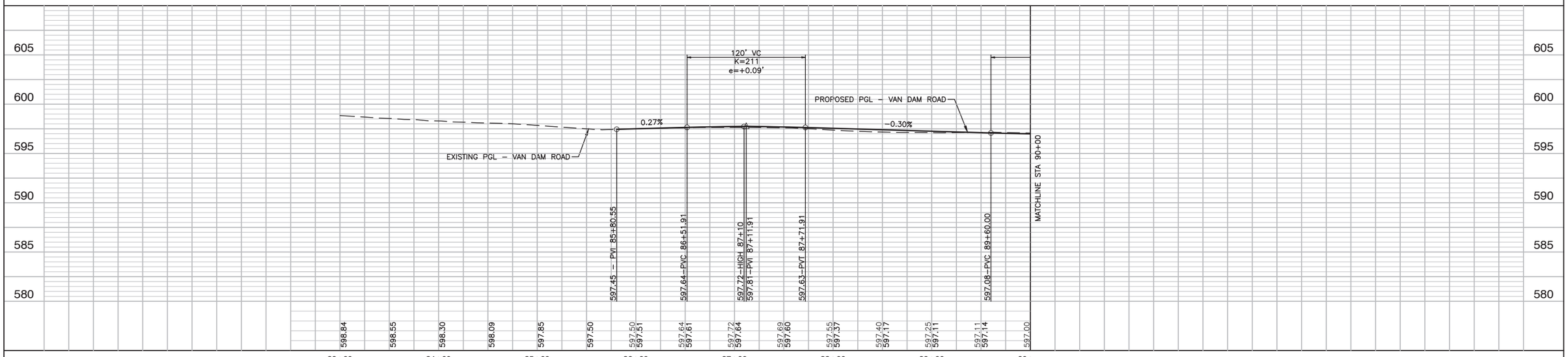
FILE NAME = 12603_02-UTIL-01 - IDOT PLPR03	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS DRAINAGE & UTILITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —			351	14-00103-00-CH	COOK	78	27
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5 SHEET NO. 27 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

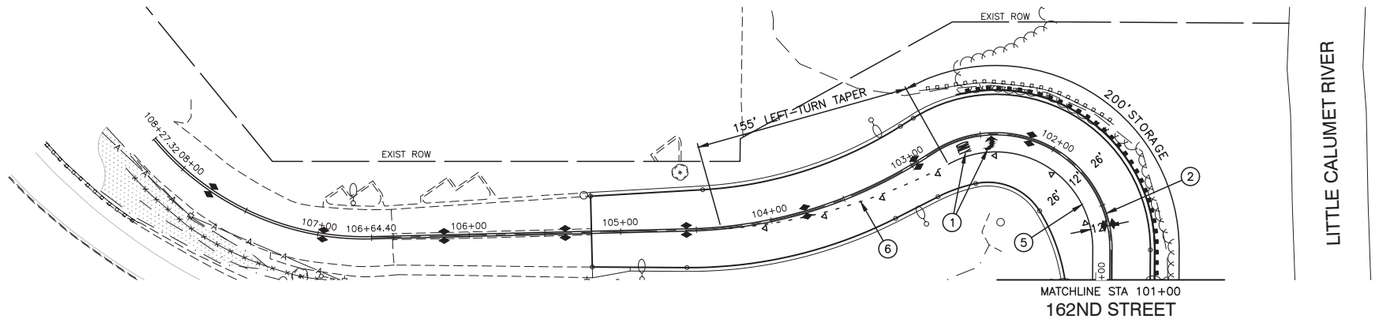


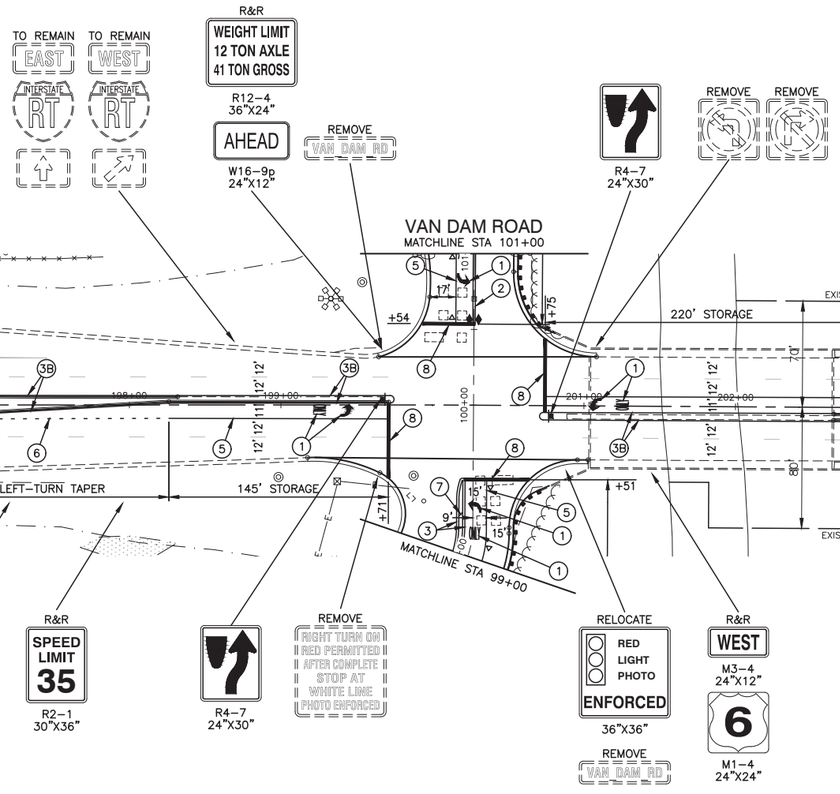
NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED STORM SEWER TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF THE STORM SEWER.

FILE NAME = 12603_02-UTIL-01 - IDOT PLPR04	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS DRAINAGE & UTILITIES
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5' | SHEET NO. 28 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	28
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		





N

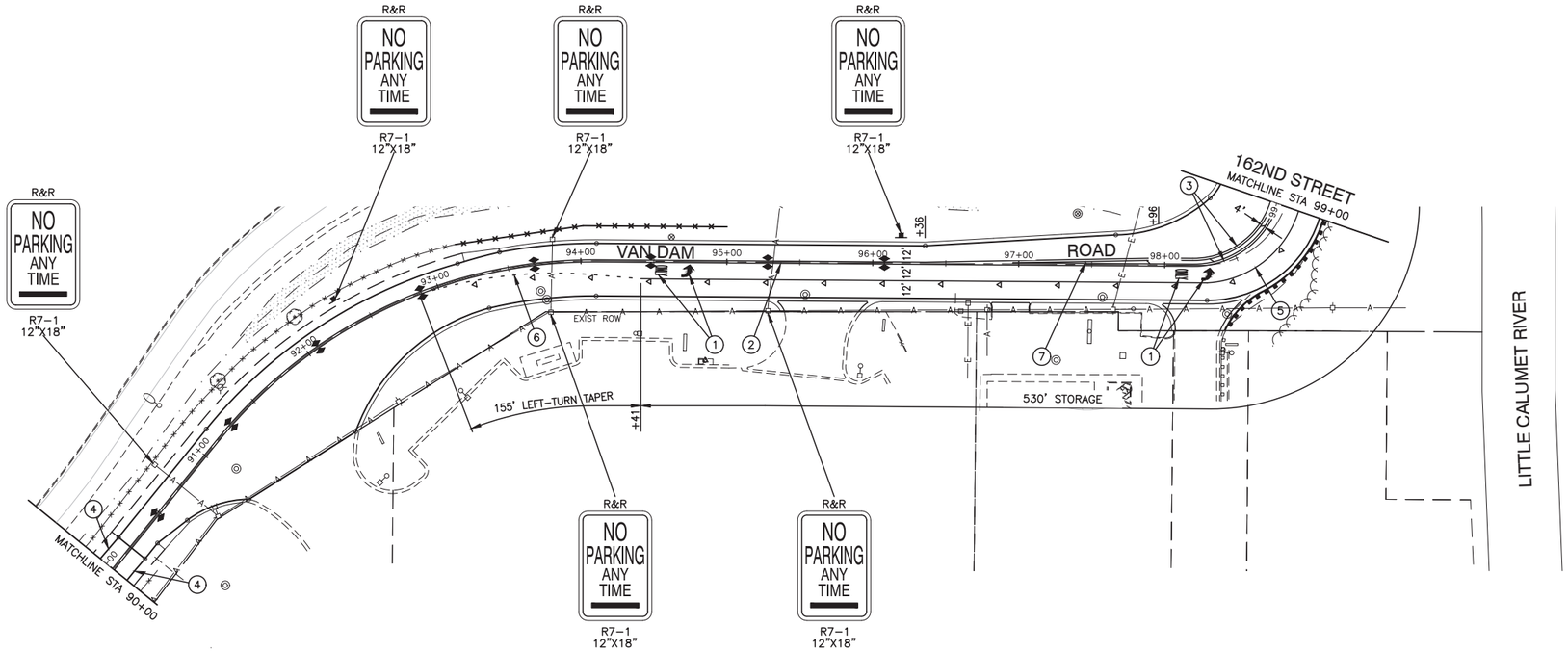
NOTE:

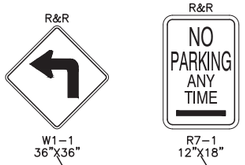
ALL PAVEMENT MARKINGS ON BITUMINOUS ASPHALT MUST BE THERMOPLASTIC AND ALL PAVEMENT MARKINGS ON PORTLAND CEMENT CONCRETE SHALL BE POLYUREA.

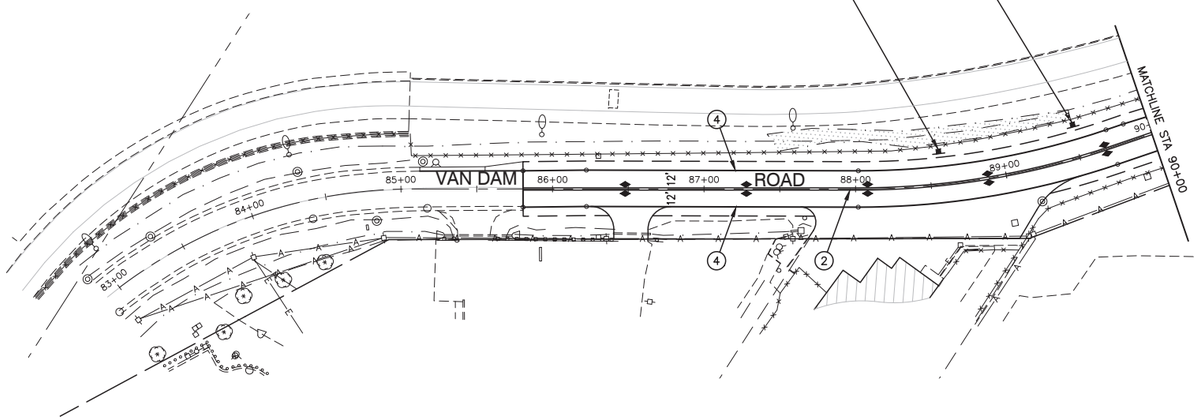
PAVEMENT MARKING LEGEND

(1)	WHITE LETTERS & SYMBOLS
(2)	DOUBLE 4" YELLOW CENTERLINE (11" C/C)
(3)	4" YELLOW MEDIAN OUTLINE
(3A)	4" YELLOW LINE
(3B)	4" YELLOW MEDIAN OUTLINE
(4)	4" WHITE EDGE LINE
(5)	6" WHITE LANE LINE
(6)	6" WHITE SKIP–DASH LINE (2' LINE – 6' SPACE)
(7)	12" YELLOW DIAGONAL LINE (50' C/C) (5 MINIMUM)
(8)	24" WHITE STOP BAR
(9)	6" WHITE CROSSWALK (6' C/C)
(10)	6" WHITE CROSSWALK (10' C/C)
(11)	12" WHITE LINE (45° ANGLE, 20' C/C)
(12)	4" WHITE SKIP – DASH LINE (10' LINE – 30' SPACE)
(13)	4" YELLOW SKIP – DASH LINE (10' LINE – 30' SPACE)
◁	ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE INDICATED
◆	TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

FILE NAME = 12603_02-PVMK-01 - IDOT P01	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS PAVEMENT MARKING & SIGNING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — WPD	REVISED —			351	14-00103-00-CH	COOK	78	29
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61F21		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: 1"=50' SHEET NO. 29 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		







NOTE:

ALL PAVEMENT MARKINGS ON BITUMINOUS ASPHALT MUST BE THERMOPLASTIC AND ALL PAVEMENT MARKINGS ON PORTLAND CEMENT CONCRETE SHALL BE POLYUREA.

PAVEMENT MARKING LEGEND

1. WHITE LETTERS & SYMBOLS
2. DOUBLE 4" YELLOW CENTERLINE (11" C/C)
3. 4" YELLOW MEDIAN OUTLINE
3A. 4" YELLOW LINE
3B. 4" YELLOW MEDIAN OUTLINE
4. 4" WHITE EDGE LINE
5. 6" WHITE LANE LINE
6. 6" WHITE SKIP–DASH LINE (2' LINE – 6' SPACE)
7. 12" YELLOW DIAGONAL LINE (50' C/C) (5 MINIMUM)
8. 24" WHITE STOP BAR
9. 6" WHITE CROSSWALK (6' C/C)
10. 6" WHITE CROSSWALK (10' C/C)
11. 12" WHITE LINE (45° ANGLE, 20' C/C)
12. 4" WHITE SKIP – DASH LINE (10' LINE – 30' SPACE)
13. 4" YELLOW SKIP – DASH LINE (10' LINE – 30' SPACE)

◁ ONE–WAY CRYSTAL MARKER
80' C/C UNLESS OTHERWISE INDICATED

◆ TWO–WAY AMBER MARKER
40' C/C UNLESS OTHERWISE INDICATED

FILE NAME = 12603_02-PVMK-01 - IDOT P02

USER NAME =	DESIGNED — JPH	REVISED —	
	CHECKED — WPD	REVISED —	
PLOT SCALE =	DRAWN — RG	REVISED —	
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
PAVEMENT MARKING & SIGNING

SCALE: 1"=50' | SHEET NO. 30 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	30
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	J
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RXR	RXR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G ◄Y ◄G (P)	R Y G ◄Y ◄G (P)
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G (P) (RB)	R Y G ◄Y ◄G (P) (RB)
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1*6	1*6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	6*18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 1

FILE NAME = 12603_02-DTLS-TS05 - P01	USER NAME = leysa	DESIGNED — IP	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		CHECKED — IP	REVISED —		
	PLOT SCALE = 50.0000 ' / in.	DRAWN — LP	REVISED —		SCALE: NONE | SHEET NO. 31 OF 78 SHEETS | STA. | TO STA.
	PLOT DATE = 9/29/2016	CHECKED — 9/29/2016	REVISED —		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	31
	TS-05	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6'' (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

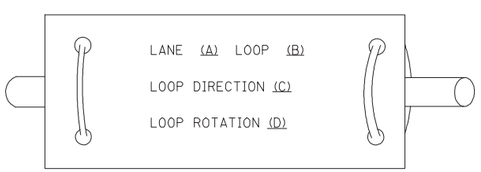
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18'' (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

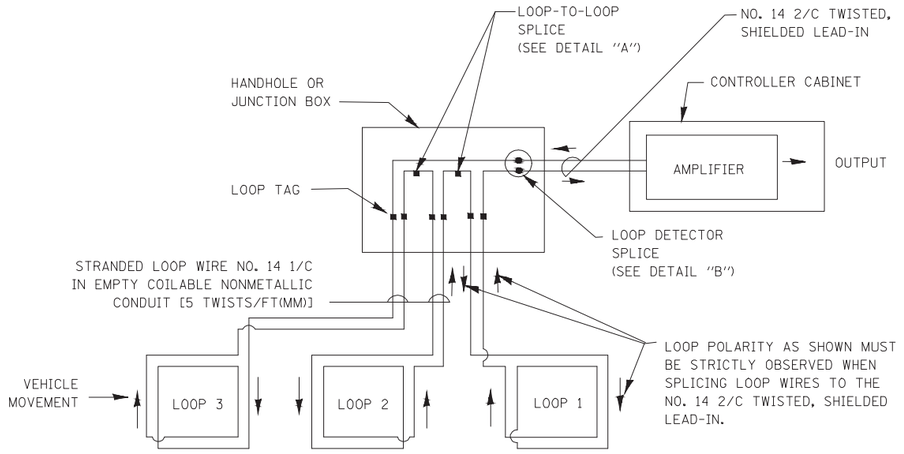


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

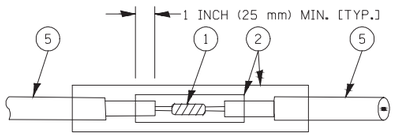
C. LABEL LOOP CABLE ''IN'' OR LOOP CABLE ''OUT''.

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

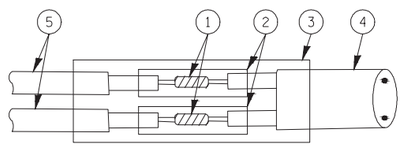


DETECTOR LOOP WIRING SCHEMATIC

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

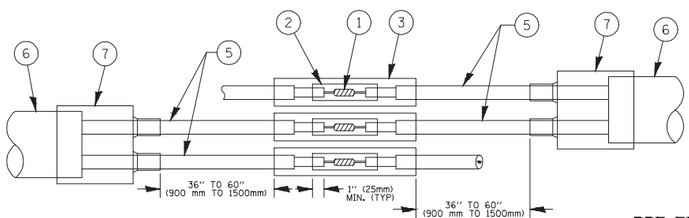


DETAIL ''A''
LOOP-TO-LOOP SPLICE



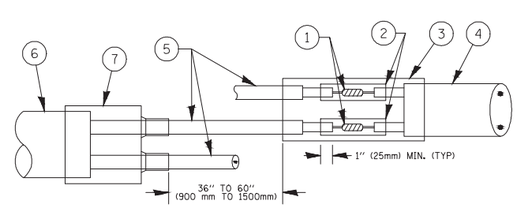
DETAIL ''B''
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL ''A''
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL ''B''
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3'' (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6'' (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

FILE NAME = 12603_02-DTLS-TS05 - P02	USER NAME = plascencia1	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 100.0000 '' / in	DRAWN —	REVISED —
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

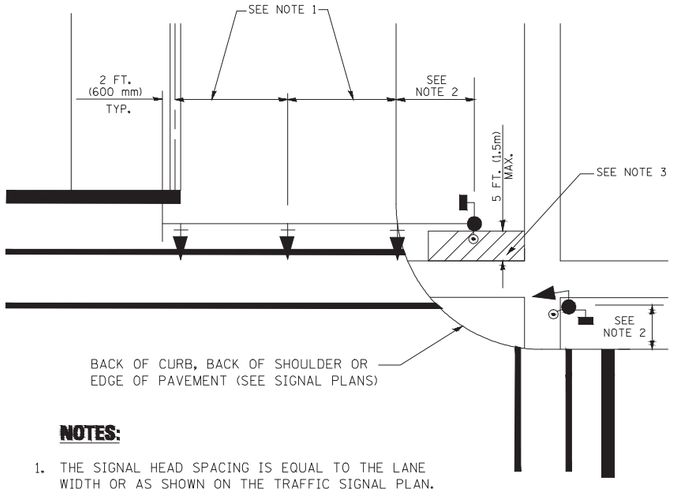
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 32 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	32
	TS-05	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

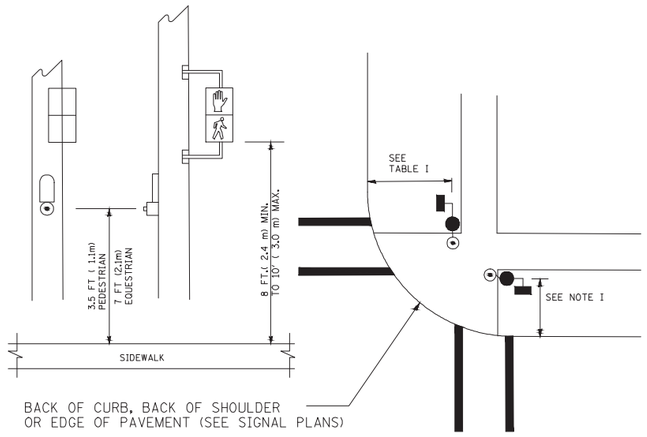
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

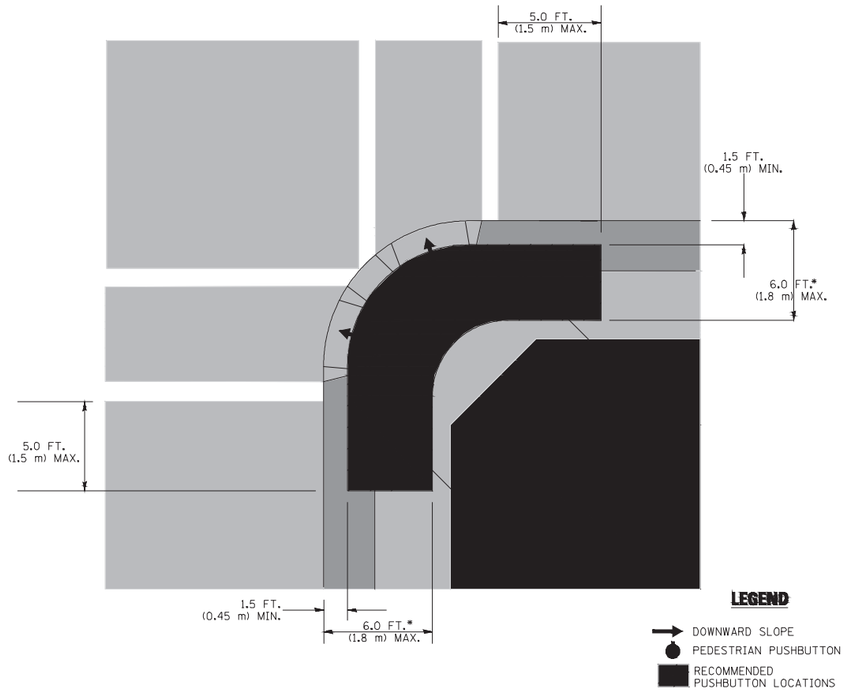
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 3

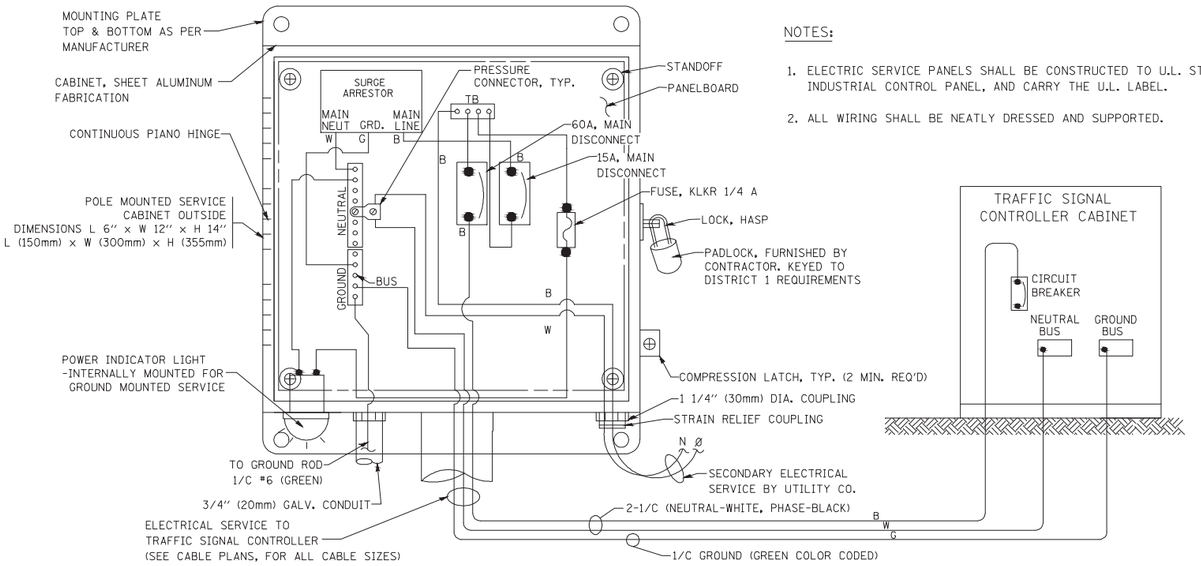
FILE NAME = 12603_02-DTLS-TS05 - P03	USER NAME = plascencia1	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 100.0000 ' / in.	DRAWN —	REVISED —
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 33 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	33
	TS-05	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



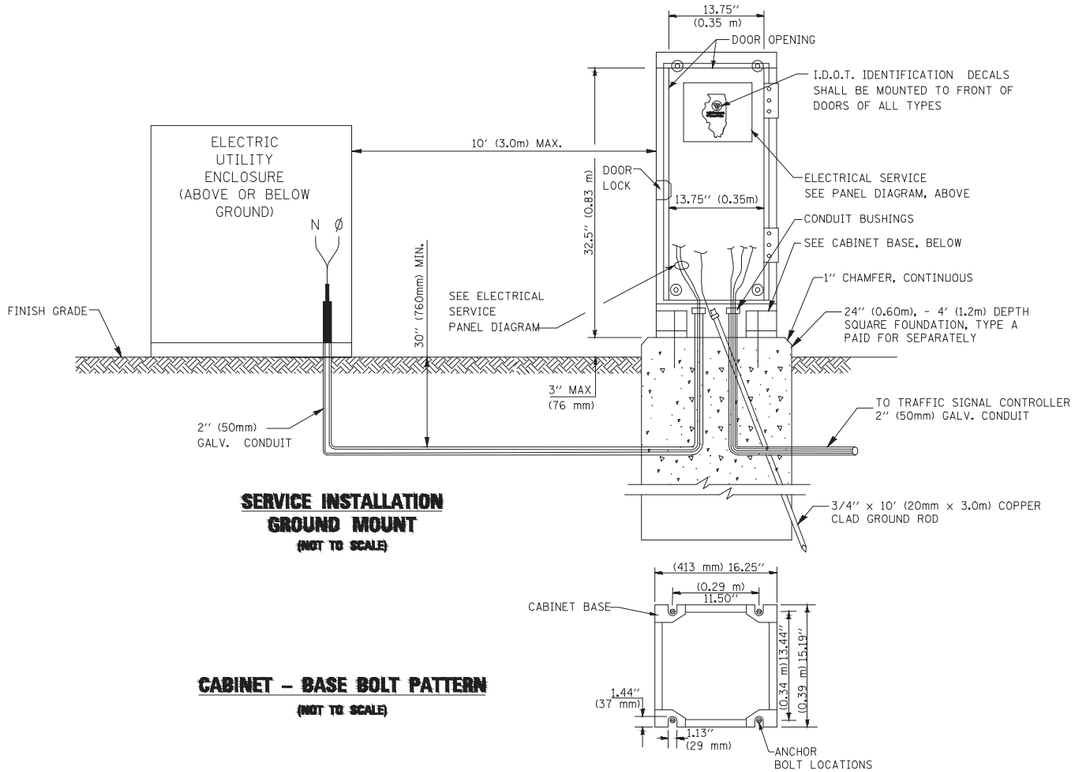
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

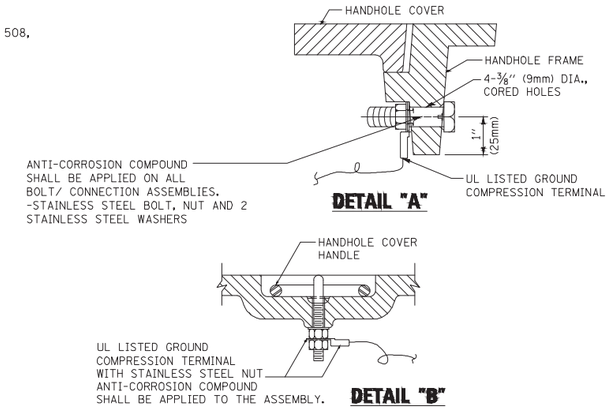


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

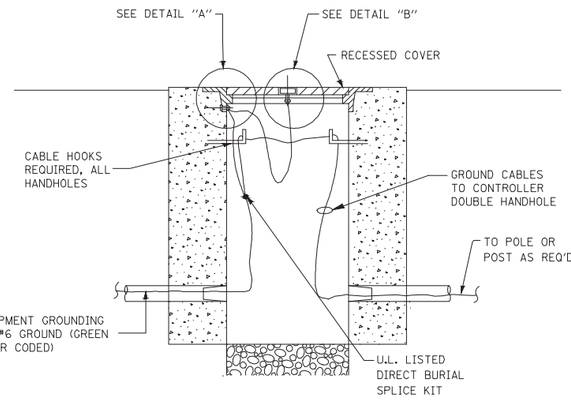
(NOT TO SCALE)



NOTES:

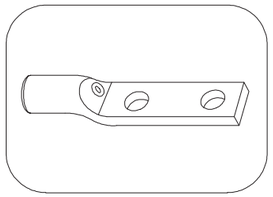
GROUNDING SYSTEM

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

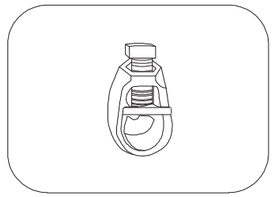


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



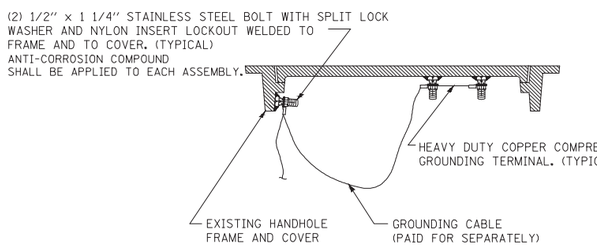
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

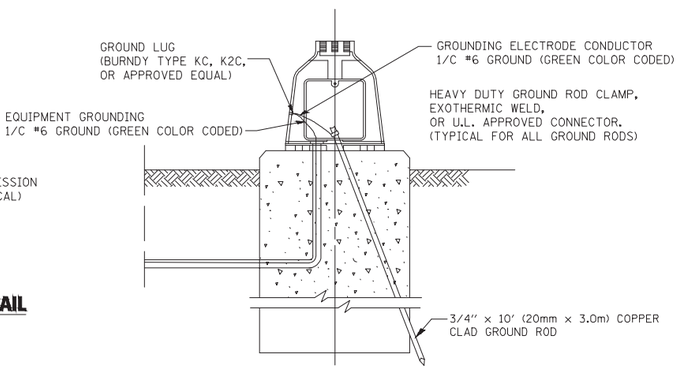
NOTES:

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



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

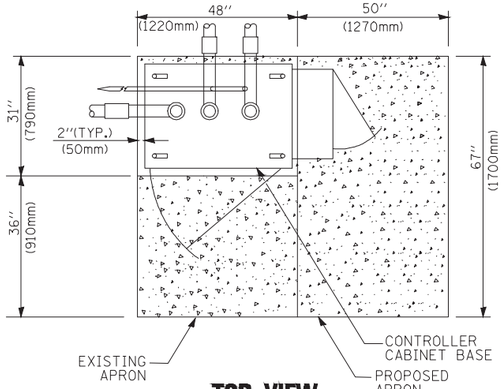


MAST ARM POLE / POST–GROUNDING DETAIL

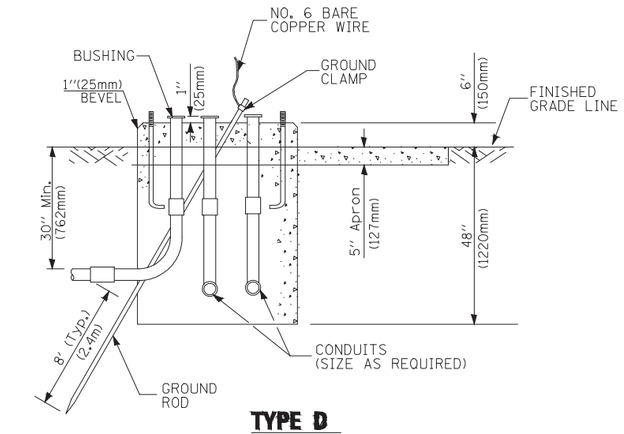
(NOT TO SCALE)

TS SHT NO. 4

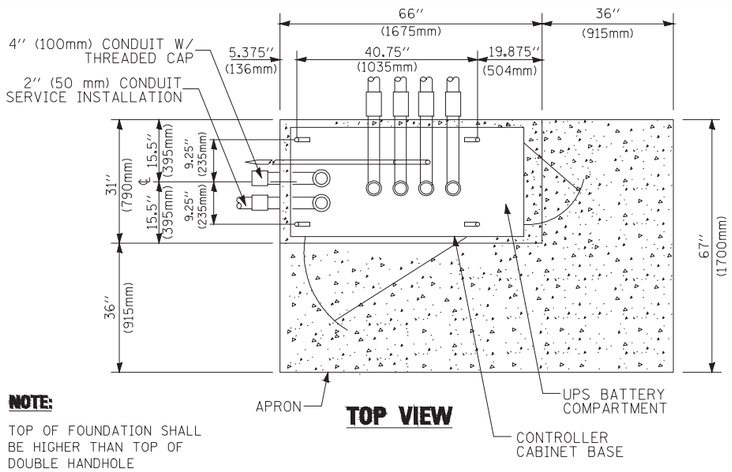
FILE NAME = 12603_02-DTLS-TS05 - P04	USER NAME = plascencia1	DESIGNED —	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —				351	14-00103-00-CH	COOK	78	34
	PLOT SCALE = 100.0000 ' / in.	DRAWN —	REVISED —					TS-05	CONTRACT NO. 61F21		
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 34 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



TOP VIEW



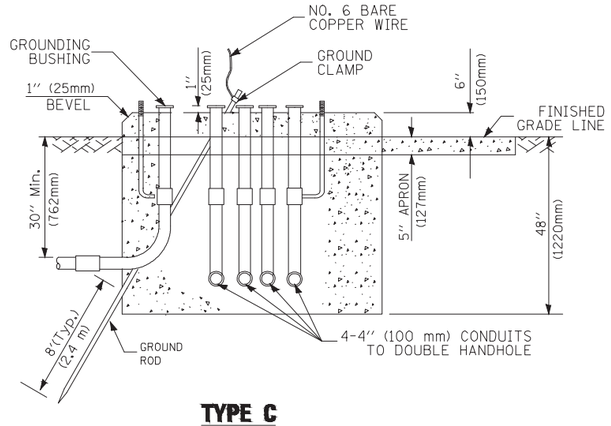
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



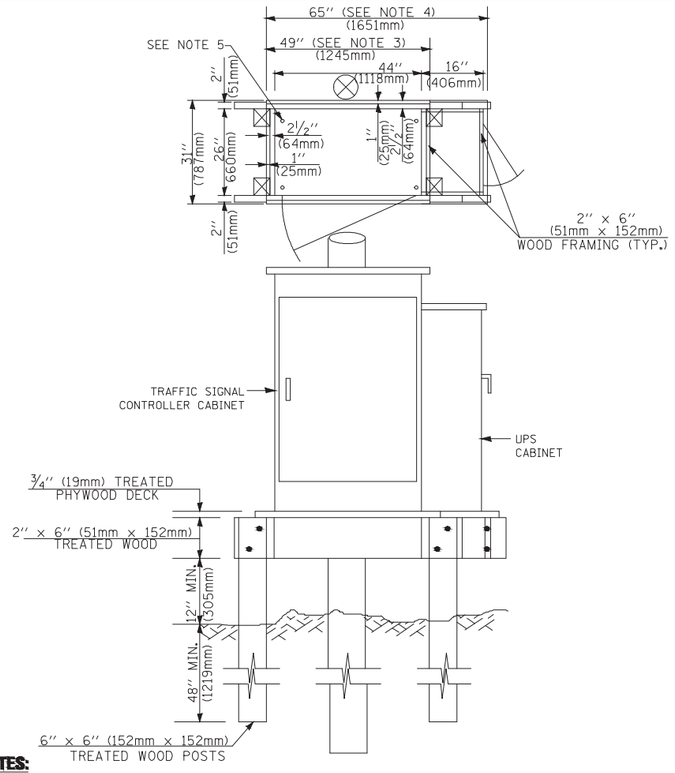
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

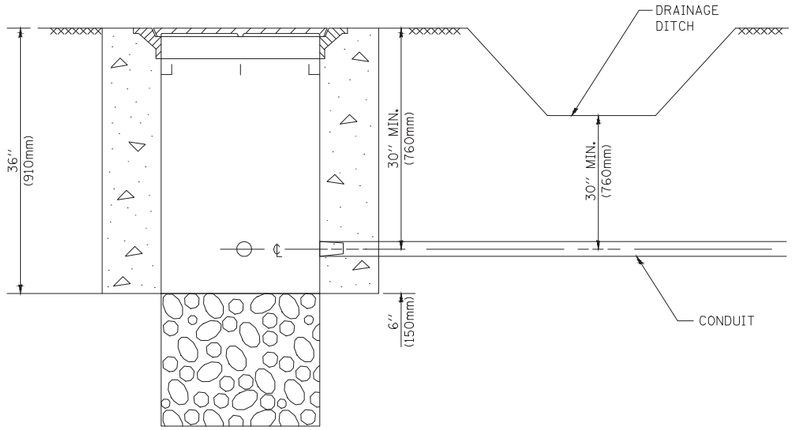
FILE NAME = 12603_02-DTLS-TS05 - P05	USER NAME = plascencia1	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 100.0000 ' / in.	DRAWN —	REVISED —
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 35 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	35
	TS-05	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

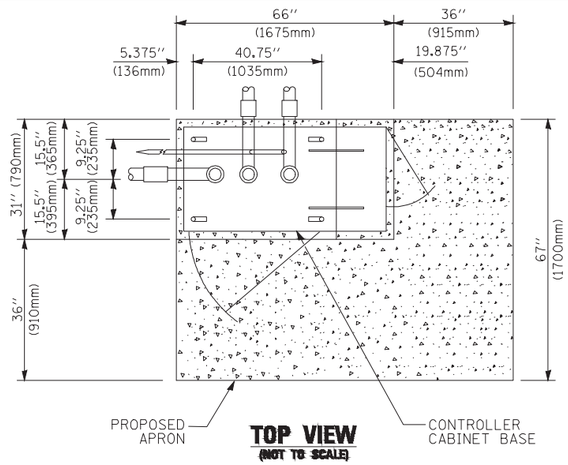


NOTES:

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

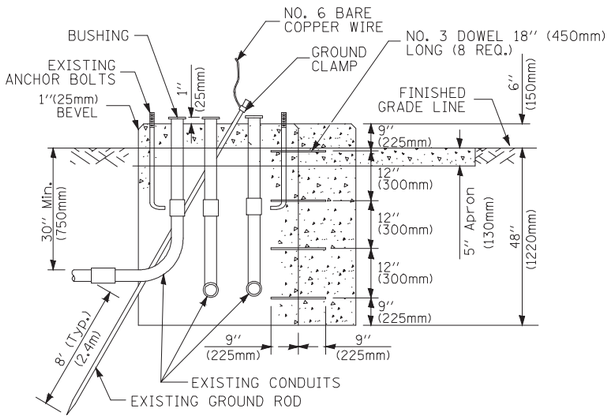
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



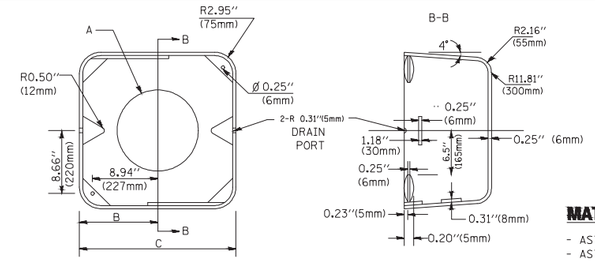
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

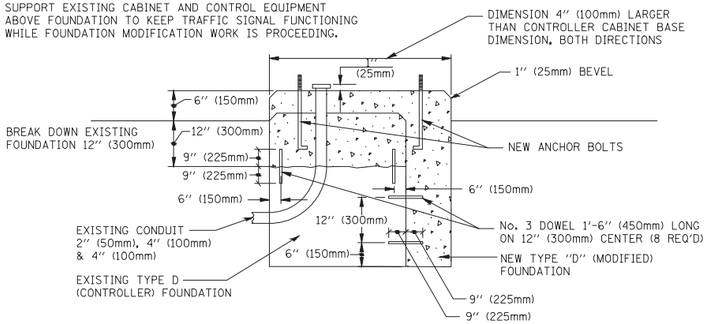
SHROUD

NOTES:

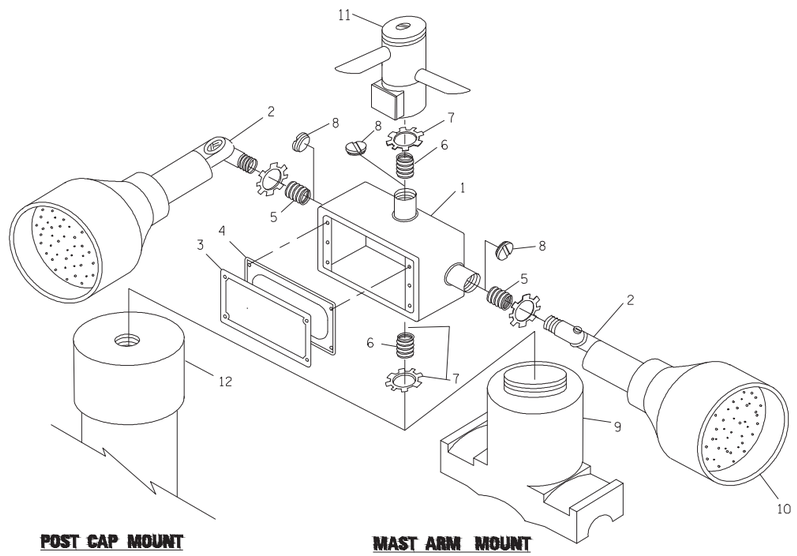
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



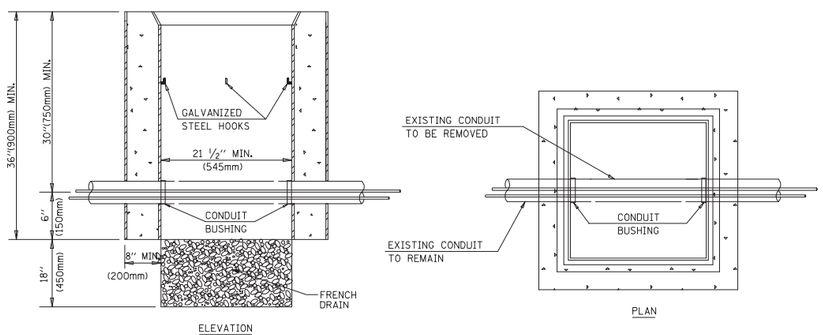
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

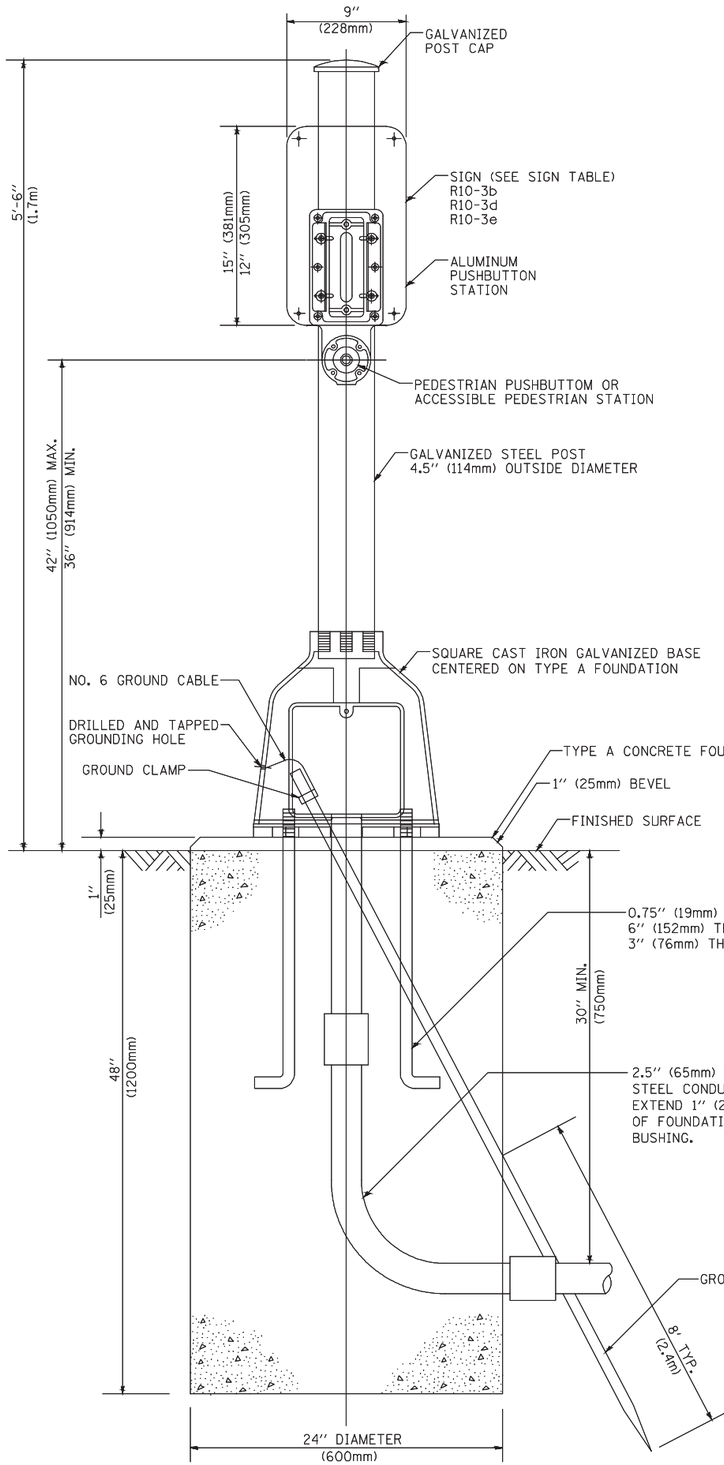
FILE NAME = 12603_02-DTLS-TS05 - P06	USER NAME = plascencia	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 100.0000 ' / in.	DRAWN —	REVISED —
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

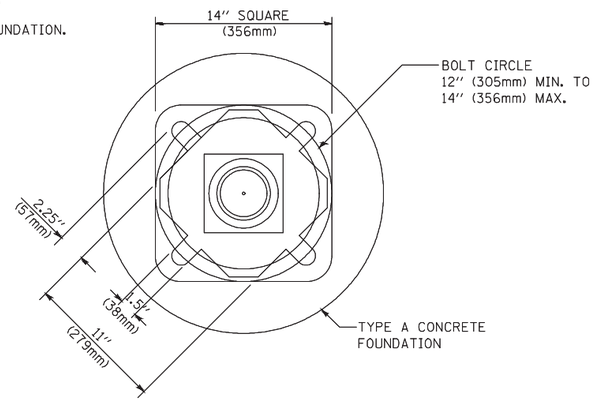
SCALE: NONE | SHEET NO. 36 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	36
	TS-05	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



SIGN TABLE

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



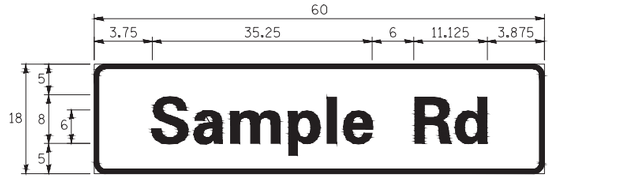
BOLT PATTERN

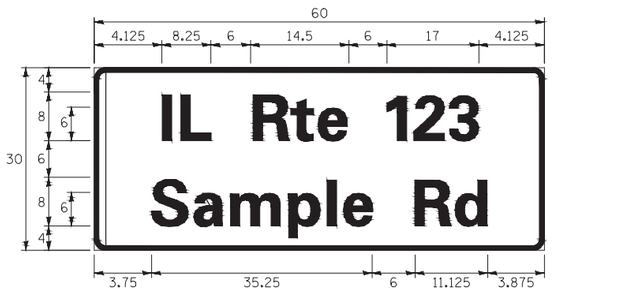
PEDESTRIAN PUSH BUTTON POST, TYPE A

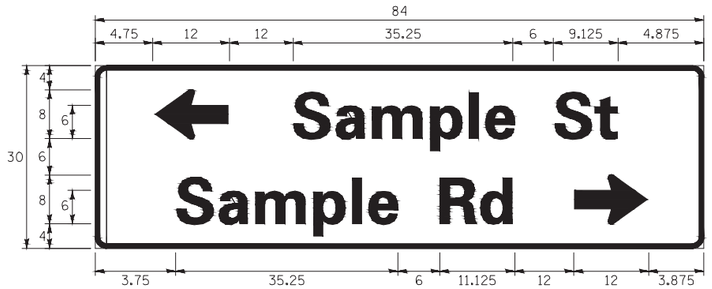
TS SHT NO. 7

FILE NAME = 12603_02-DTLS-TS05 - P07	USER NAME = plascencia	DESIGNED —	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —					351	14-00103-00-CH	COOK	78	37
	PLOT SCALE = 100.0000 '/ in.	DRAWN —	REVISED —						TS-05	CONTRACT NO. 61F21		
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 37 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

SIGN PANEL – TYPE 1 OR TYPE 2







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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)

3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.

4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.

5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

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

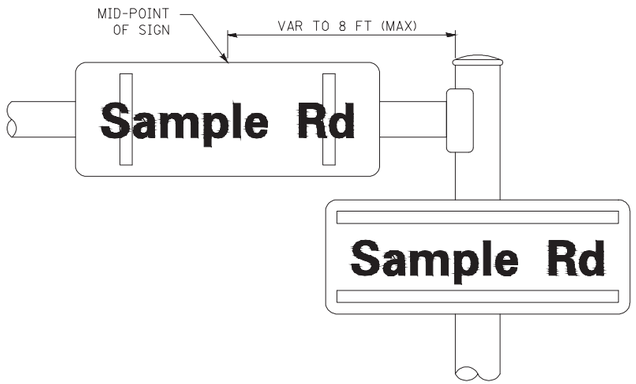
PARTS LISTING:

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

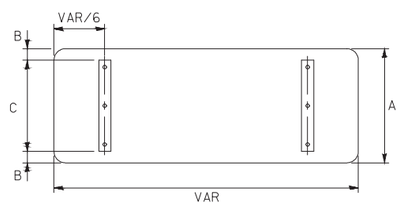
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

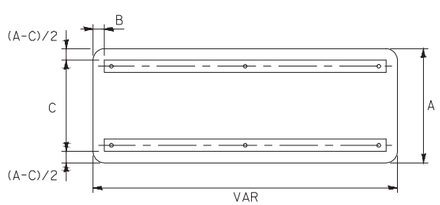
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



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



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

STANDARD ALPHABETS SPACING CHART

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

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

TS SHT NO. 8

FILE NAME = 12603_02-DTLS-TS02 - P01	USER NAME = plascencia1	DESIGNED — LP/IP	REVISED — LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — LP	REVISED —			351	14-00103-00-CH	COOK	78	38
	PLOT SCALE = 100.0000 ' / in	DRAWN — IP	REVISED —				TS-02	CONTRACT NO. 61F21		
	PLOT DATE = 5/17/2016	CHECKED — 10/01/2014	REVISED —		SCALE: SHEET NO. 38 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	STEEL MAST ARM ASSEMBLY AND POST
3	EACH	TRAFFIC SIGNAL POST
9	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
1	EACH	SERVICE INSTALLATION
4	EACH	TRAFFIC SIGNAL BACK PLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SOUTH HOLLAND. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS:

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

N

EXIST. R.O.W.

APPROX. STA.
199+70.0, 53.4' LT

APPROX. STA.
200+79.4, 53.5' LT

159TH STREET

US ROUTE 6

VAN DAM ROAD

200+00

100+00

ONLY

178.00'

70.00'

50.00'

80.00'

APPROX. STA.
199+69.1, 67.1' RT

APPROX. STA.
200+69.5, 61.6' RT

EXISTING INTERCONNECT
TO PARK AVENUE

TEMPORARY WIRELESS
INTERCONNECT TO
PARK AVENUE

EXIST. R.O.W.

NOTE:

THE EXISTING CONTROLLER IS ATTACHED TO A TEMPORARY WOOD POLE. THIS POLE SHALL BE REMOVED AND SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

TS SHT NO. 9

TS 305

ECON 49

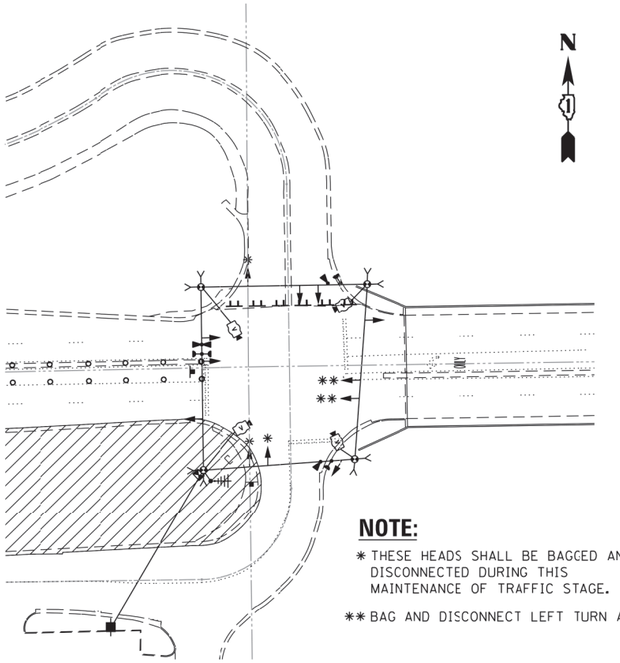
FILE NAME = P:\2012\12-603.32\12-603.02 DGN\12603.02-SGNL-01.dgn	USER NAME = kmuhr	DESIGNED - JDH	REVISED -
		DRAWN - KWM	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - AG	REVISED -
Default	PLOT DATE = 10/22/2018	DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US ROUTE 6 (159TH STREET) AT VAN DAM ROAD

SCALE: 1"=20' | SHEET 39 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	39
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			

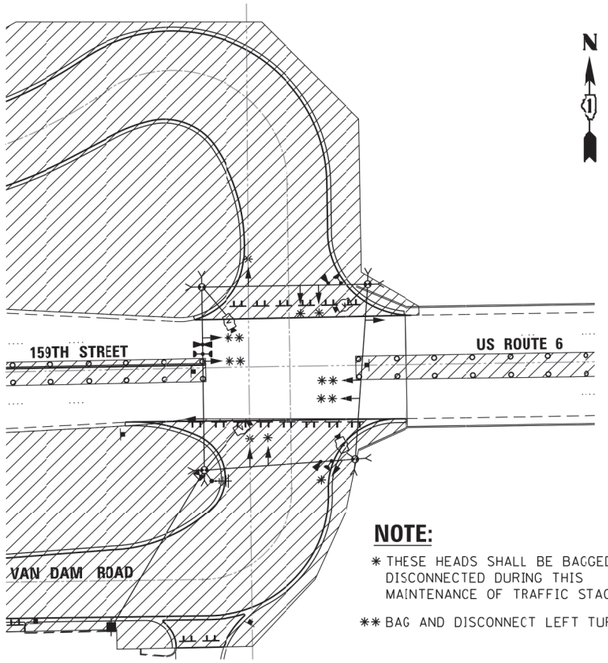


NOTE:

* THESE HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS MAINTENANCE OF TRAFFIC STAGE.

** BAG AND DISCONNECT LEFT TURN ARROWS

TEMPORARY TRAFFIC SIGNAL PRE-STAGE

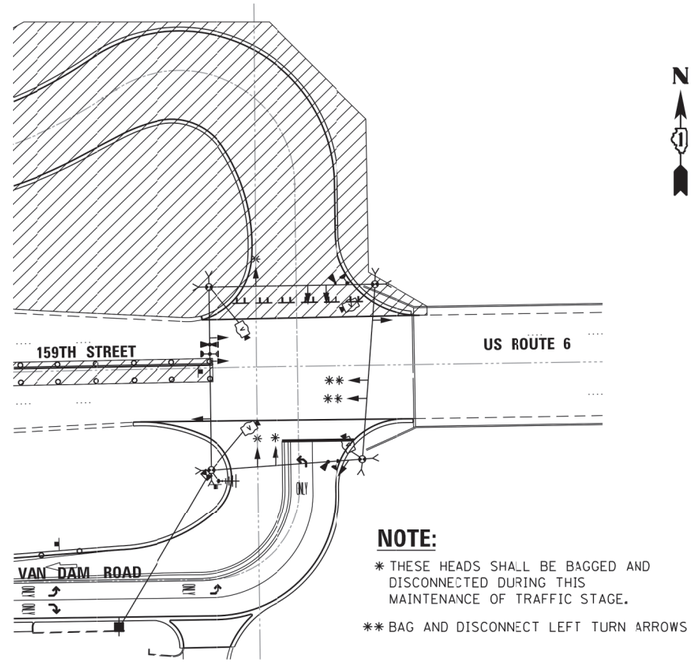


NOTE:

* THESE HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS MAINTENANCE OF TRAFFIC STAGE.

** BAG AND DISCONNECT LEFT TURN ARROWS

TEMPORARY TRAFFIC SIGNAL STAGE 1

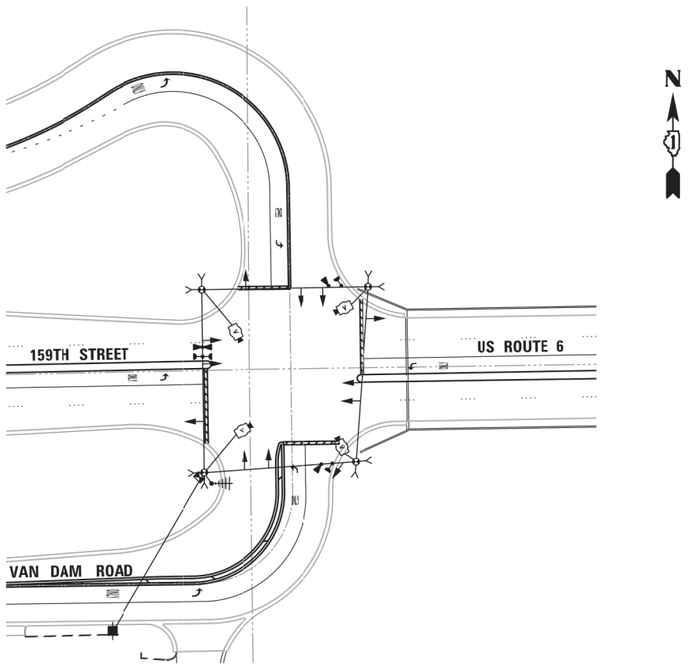


NOTE:

* THESE HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS MAINTENANCE OF TRAFFIC STAGE.

** BAG AND DISCONNECT LEFT TURN ARROWS

TEMPORARY TRAFFIC SIGNAL STAGE 2 & 3



TEMPORARY TRAFFIC SIGNAL FINAL CONDITION

TS SHT NO. 11

ECON 49

FILE NAME = P:\2012\12-603.02\12-603.02 DGN\12603.02-MOTS-01.dgn	USER NAME = kmuhr	DESIGNED - JDH	REVISED - ----------
	PLOT SCALE = 50.0000 ' / in.	DRAWN - KWM	REVISED -
Default	PLOT DATE = 10/22/2018	CHECKED - AG	REVISED -
		DATE - 11-02-18	REVISED -

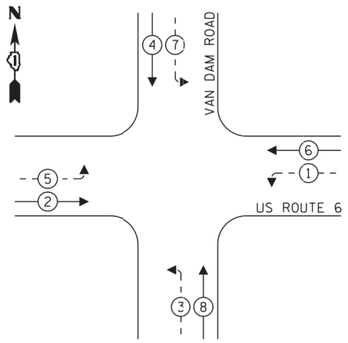
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION MOT STAGING
US ROUTE 6 (159TH STREET)
VAN DAM ROAD TO PARK AVENUE

SCALE: 1"=50' | SHEET 40 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	40
		CONTRACT NO. 61F21		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



LEGEND:

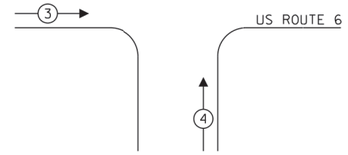
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

STAGING NOTES:

1. PHASES 1, 3 AND 8 SHALL BE INACTIVE DURING CLOSURE OF SOUTH LEG (STAGE 1).

2. PHASES 4, 5 & 7 SHALL BE INACTIVE DURING CLOSURE OF NORTH LEG (ALL STAGES).

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



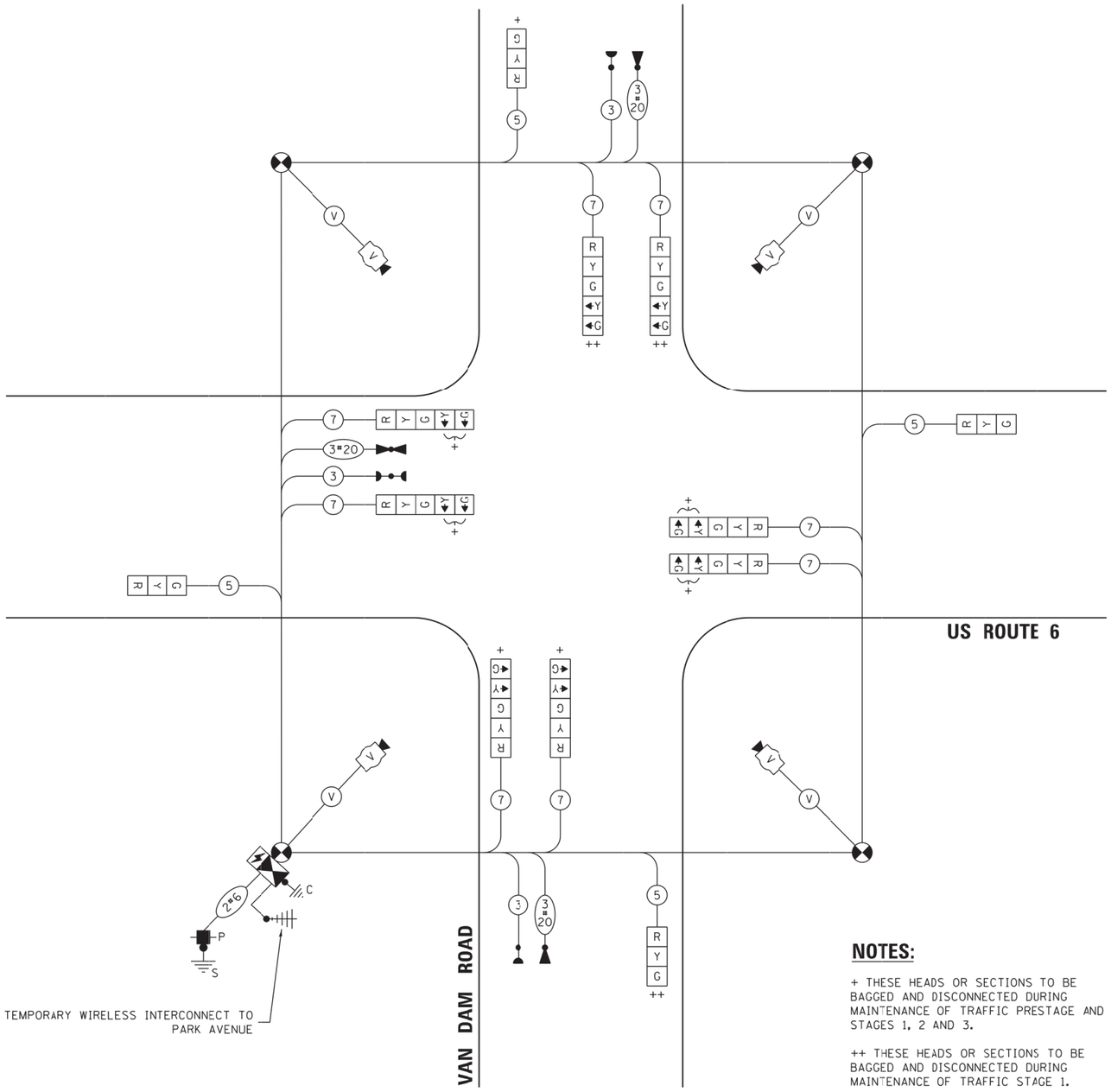
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	433.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS / DISTRICT 1
201 WEST CENTER CT., SCHAUMBERG, IL 60196-1096

ENERGY SUPPLY: CONTACT: LASHAWN LAO
PHONE: (708) 235-2346
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



NOTES:

+ THESE HEADS OR SECTIONS TO BE BAGGED AND DISCONNECTED DURING MAINTENANCE OF TRAFFIC PRESTAGE AND STAGES 1, 2 AND 3.

++ THESE HEADS OR SECTIONS TO BE BAGGED AND DISCONNECTED DURING MAINTENANCE OF TRAFFIC STAGE 1.

CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 10

TS 305
ECON 49

FILE NAME = P:\2012\12-603.32\12-603.02 DGN\12603.02-CABL-01.dgn	USER NAME = kmuhr	DESIGNED - JDH	REVISED - ----------
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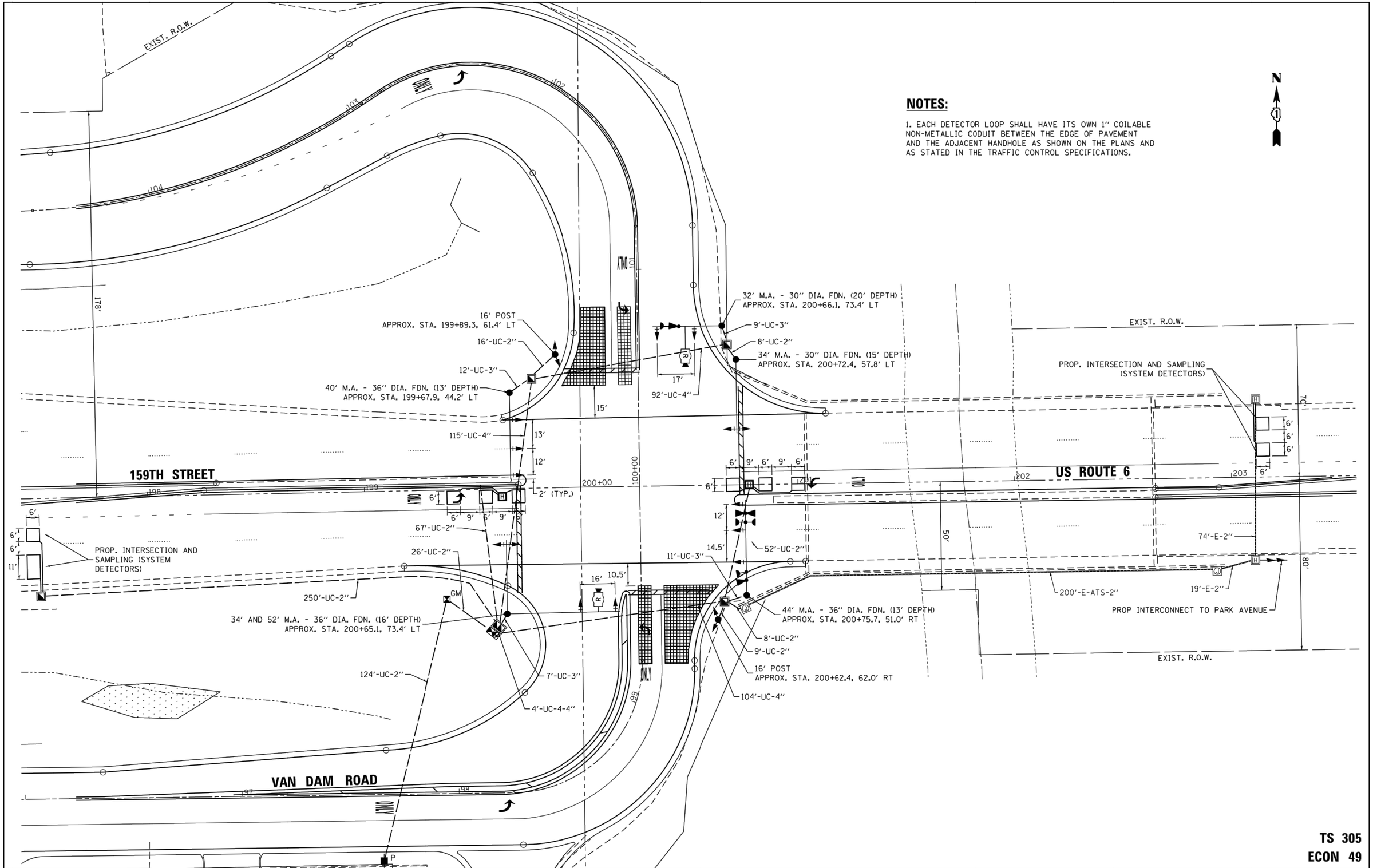
	PLOT DATE = 10/22/2018	CHECKED - WD	REVISED -
		DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE VAN DAM ROAD AND US ROUTE 6 (159TH STREET)

SCALE: | SHEET 41 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	41
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1'' COILABLE NON-METALLIC CODUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC CONTROL SPECIFICATIONS.

TS SHT NO. 12

TS 305
ECON 49

FILE NAME = P:\2012\12-603.02\12-603.02 DGN\12603.02-SGNL-02.dgn Default	USER NAME = kmuhr	DESIGNED - JPH	REVISED -
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	PLOT SCALE = 20.0000 ' / in.	CHECKED - AG	REVISED -
	PLOT DATE = 11/20/2018	DATE - 11-02-18	REVISED -

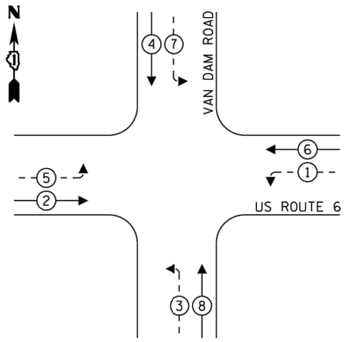
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US ROUTE 6 (159TH STREET) AT VAN DAM ROAD

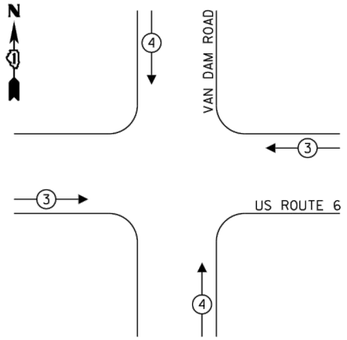
SCALE: 1''=20' | SHEET 42 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	42
		CONTRACT NO. 61F21		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE

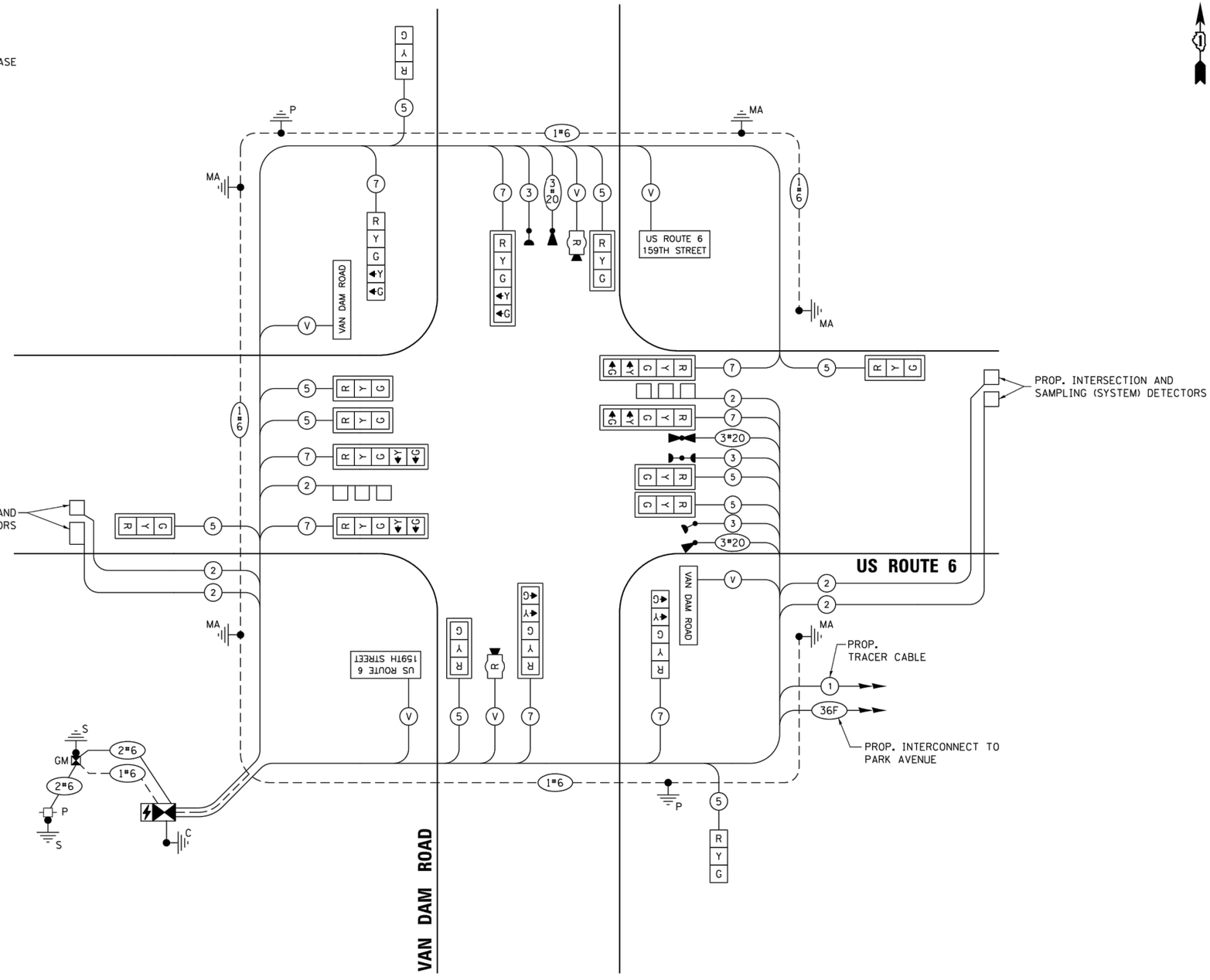


PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99
(YELLOW)	18	20	5	18
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	0	20	100	0.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	0	150	100	0.0
BLANK-OUT SIGN	0	25	5	0.0
FLASHER	0	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	0	-	-	-
			TOTAL =	595.2

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS / DISTRICT 1
201 WEST CENTER CT., SCHAUMBERG, IL 60196-1096

ENERGY SUPPLY: CONTACT: LASHAWN LAO
PHONE: (708) 235-2346
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

TS SHT NO. 13

TS 305
ECON 49

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Default	PLOT DATE = 11/20/2018	DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

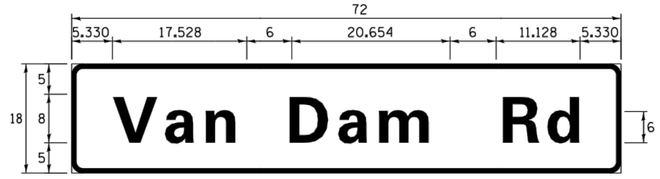
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
VAN DAM ROAD AND US ROUTE 6 (159TH STREET)

SCALE: | SHEET 43 OF 78 SHEETS | STA. | TO STA.

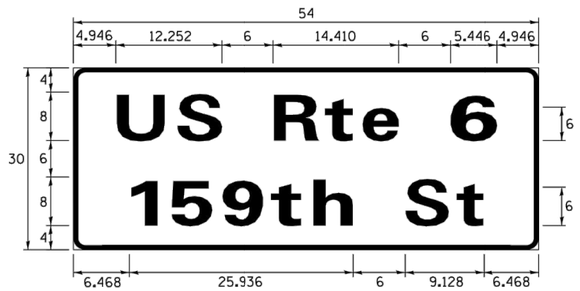
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	43
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.00	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.42	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	995
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	327
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	679
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,905
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,560
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,759
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	191
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	611
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	35
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	449
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
REMOVE EXISTING FLARED END SECTION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	679
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CABLE, SPECIAL	FOOT	743
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TS SHT NO. 14

TS 305

ECON 49

FILE NAME = P:\2012\12-603.02\12-603.02 DGN\12603.02-SGNL-DTLS-01.dgn	USER NAME = kmuhr	DESIGNED - JPH	REVISED - ----------
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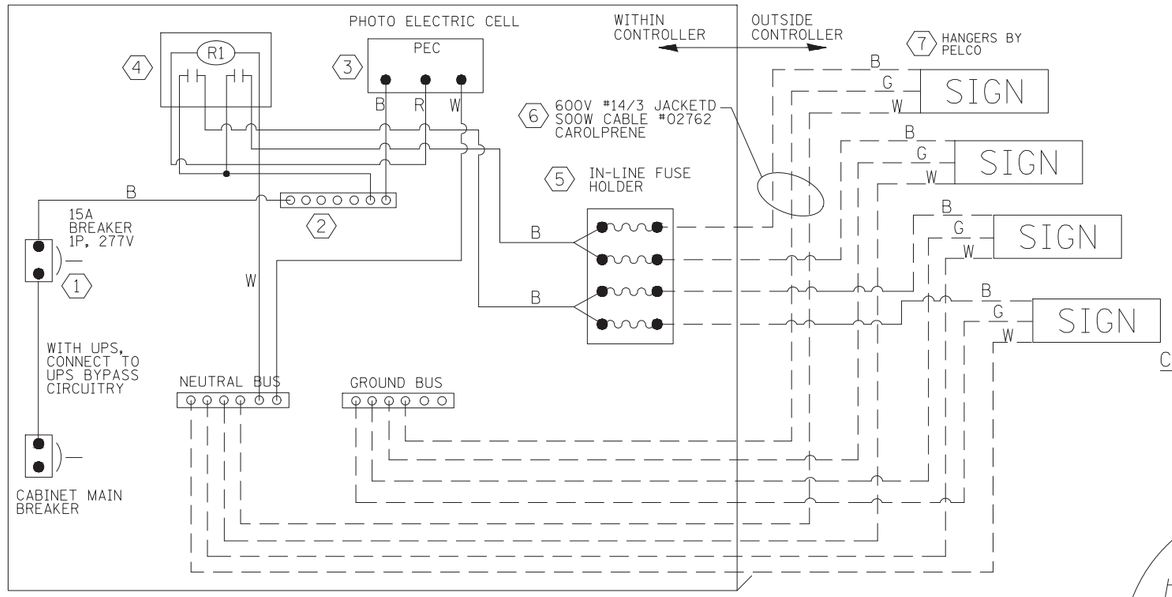
Default	PLOT DATE = 11/20/2018	CHECKED - AG	REVISED -
		DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

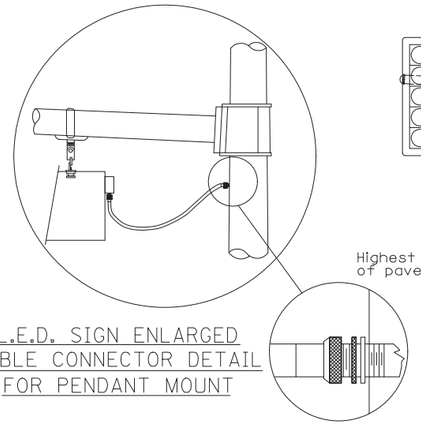
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US ROUTE 6 (159TH STREET) AT VAN DAM ROAD

SCALE: | SHEET 44 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	44
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			

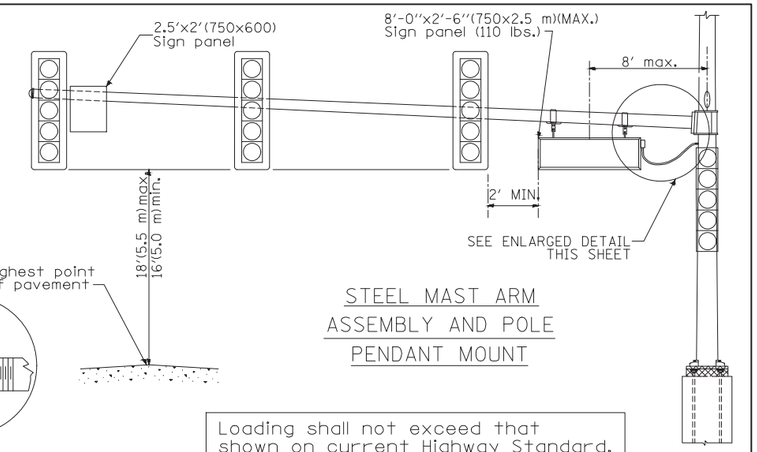


LED SIGN WIRING DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL FOR PENDANT MOUNT

L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

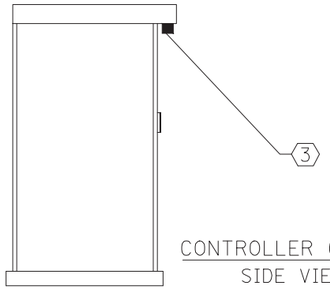


STEEL MAST ARM ASSEMBLY AND POLE PENDANT MOUNT

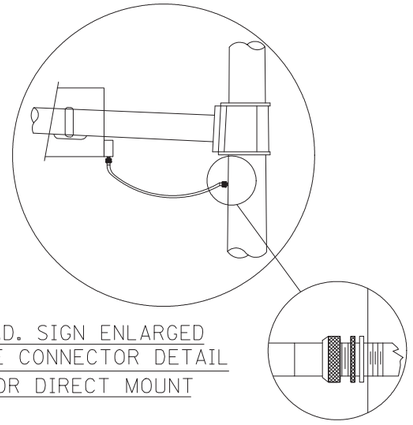
Loading shall not exceed that shown on current Highway Standard.

BILL OF MATERIALS

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1 CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
2 TERMINAL BLOCK	MARATHON	1502 DJSV	
3 PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4 CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5 INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
6 ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
7 SIGN MOUNTING HARDWARE	PELCO	Pendant (SE-5015) Direct mount (AB-0104-L-SP) Additional sign stiffeners may be required for direct mounted signs.	S.S. HARDWARE

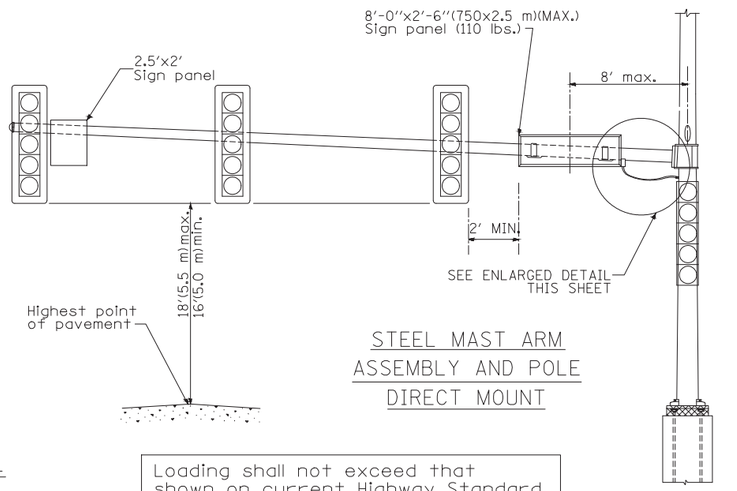


CONTROLLER CABINET SIDE VIEW



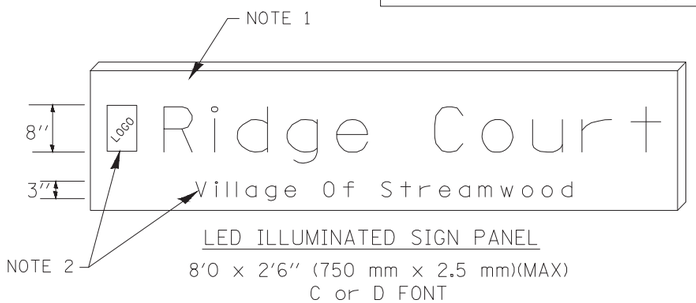
L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL FOR DIRECT MOUNT

L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



STEEL MAST ARM ASSEMBLY AND POLE DIRECT MOUNT

Loading shall not exceed that shown on current Highway Standard.



LED ILLUMINATED SIGN PANEL
8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

1. SIGNS SHALL BE SIGNLE SIDED FOR DIRECT MOUNT AND DOUBLE SIDED FOR PENDANT MOUNT.
2. CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
3. SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
4. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
   R = RED BL = BLUE W = WHITE
   B = BLACK Y = YELLOW G = GREEN
5. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
6. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

TS SHT NO. 15

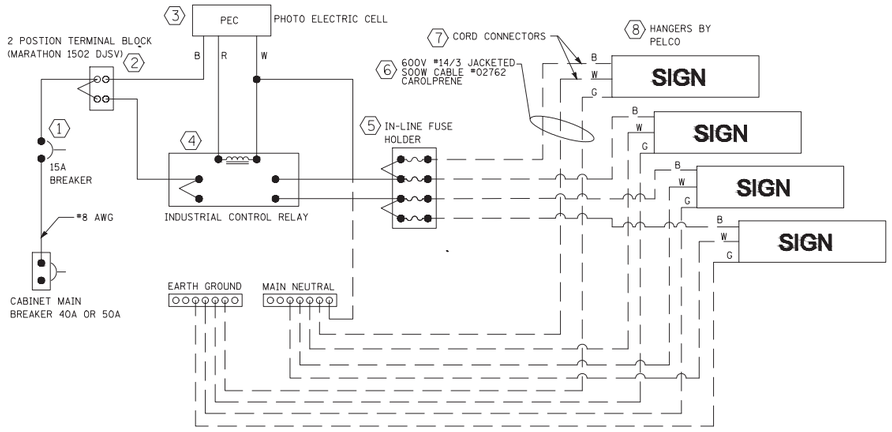
FILE NAME = 12603_02-SIGN-DTLS-01 - IDOT P01	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — K.W.M.	REVISED —
	PLOT DATE = 11-02-18	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
ILLUMINATED STREET NAME SIGN

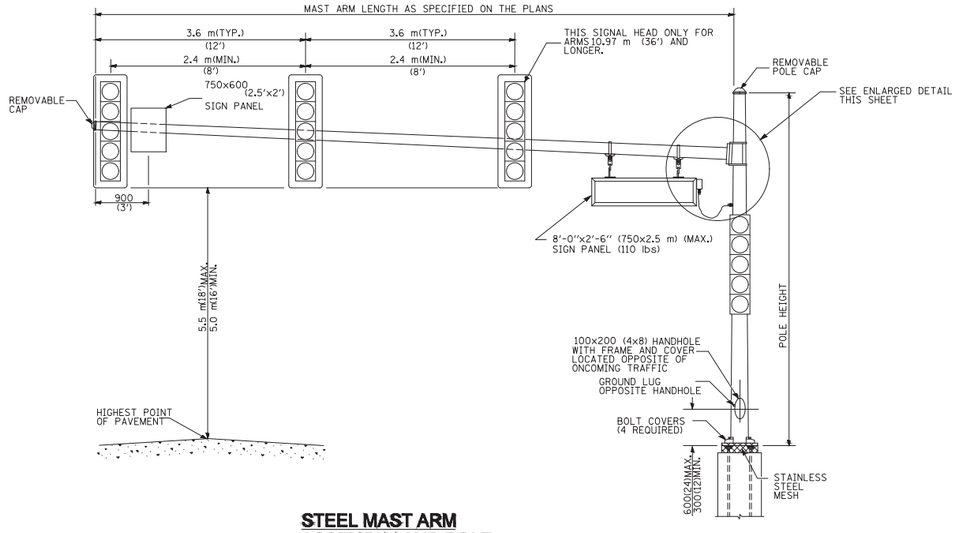
SCALE: | SHEET NO. 45 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	45
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

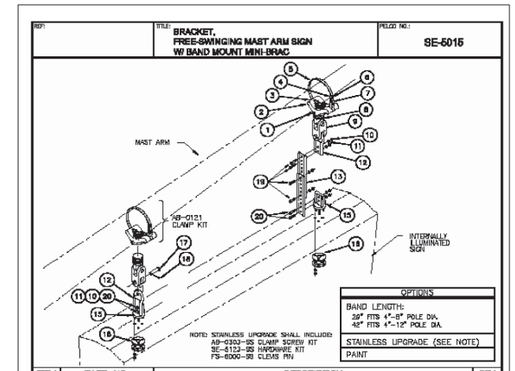


LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1. CIRCUIT BREAKER		15 AMPERE	
2. TERMINAL BLOCK	MARATHON	1502 DJSV	
3. PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5. INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMANN	S-8000 BK/S-8-3-4-R	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE /SOOW	02762	
7. CORD/CABLE CONNECTOR	APPLETON	CG5050S (STEEL)	
8. SIGN MOUNTING HARDWARE	PELCO	SE-5015	

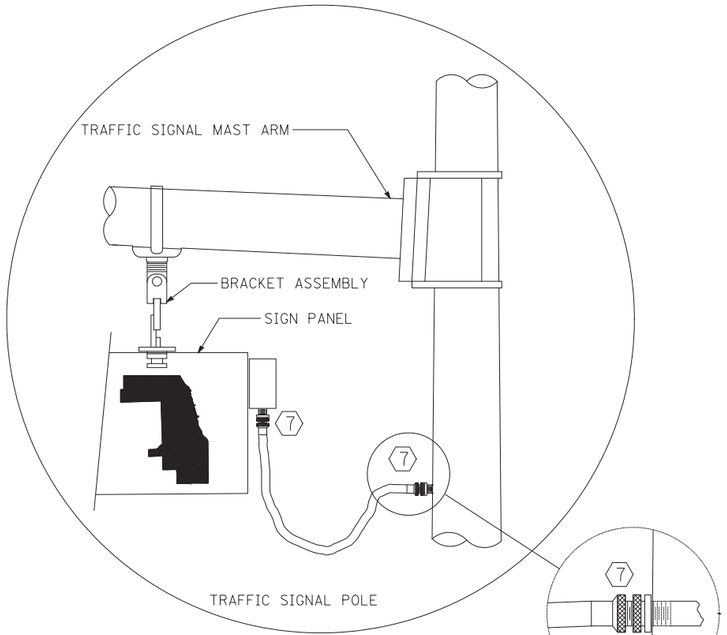


STEEL MAST ARM ASSEMBLY AND POLE



ITEM	PART NO.	DESCRIPTION	QTY
1	FS-3205-SS	SCREW, SET SQ HD ¼"-20 x 5/8", STAINLESS	2
2	AB-0268-M1	CLAMP, MINI-BRAC BAND MOUNT, 1½" NPS, ALUM	2
3	FS-6201-ZN1	PIN, GROOVE 3/16" x 1¾", ZINC1	2
4	AB-0244-SS	CLAMP, BAND 5/8", STAINLESS	2
5	AB-0243-L	BAND, 5/8", STAINLESS	2
6	FS-3202-SS	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	AB-0303-GLV	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	SE-0371-M1	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	SE-0464-M2	CLEVIS-CLEVIS, ½" x ½", ALUM W/ STAINLESS BUSHINGS	2
10	FS-1001-SS	NUT, HEX HD 5/16", STAINLESS	8
11	FS-4201-SS	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	SE-0508-M2	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHING	2
13	SE-0507-11	EXTENDER, 11"	2
15	SE-0512-M1	HANGER, TRI-STUD, ALUM	2
16	SE-5048-SS	HARDWARE KIT W/ GASKET, 5/16"-18, STAINLESS	2
17	FS-6000-GLV	PIN, CLEVIS, 5/8" x 2¼" EL, GALV	4
18	FS-6100-SS	PIN, COTTER HUMPED, 5/32" X 1.775" 304 STAINLESS	4
19	FS-2006-SS	BOLT, HEX HD, 5/16"-18 x 1", STAINLESS	4
20	FS-2019-SS	BOLT, HEX HD, 5/16"-18 x 1¼", STAINLESS	4

LED SIGN BRACKET DETAIL



LED SIGN ENLARGED CABLE CONNECTOR DETAIL

LED SIGN ENLARGED CABLE CONNECTOR DETAIL

GENERAL NOTE:

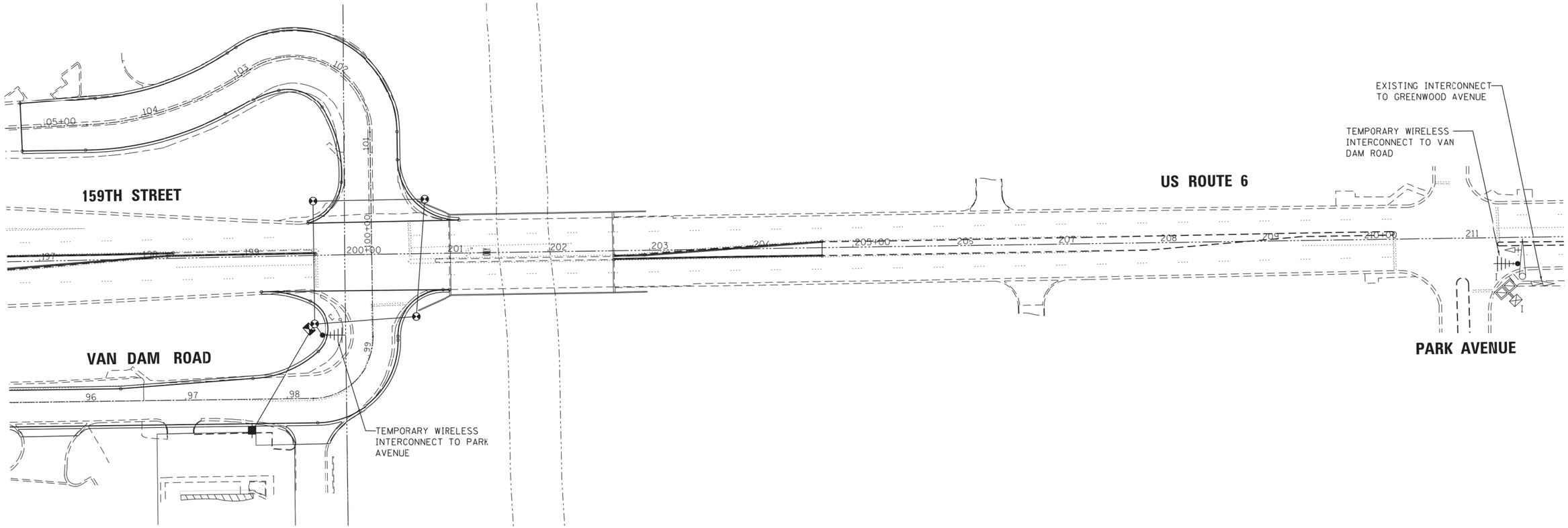
1. SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq ft.).
2. PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
3. THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
4. SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.

TS SHT NO. 16

TS ____

FILE NAME = 12603_02-SIGN-DTLS-01 - IDOT P02	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS ILLUMINATED STREET NAME SIGN MOUNTING DETAIL			
		CHECKED — WPD	REVISED —					
	PLOT SCALE =	DRAWN — K.W.M.	REVISED —					
	PLOT DATE = 11-02-18	CHECKED — APG	REVISED —		SCALE:	SHEET NO. 46 OF 78 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	46
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



TS SHT NO. 18

ECON 49

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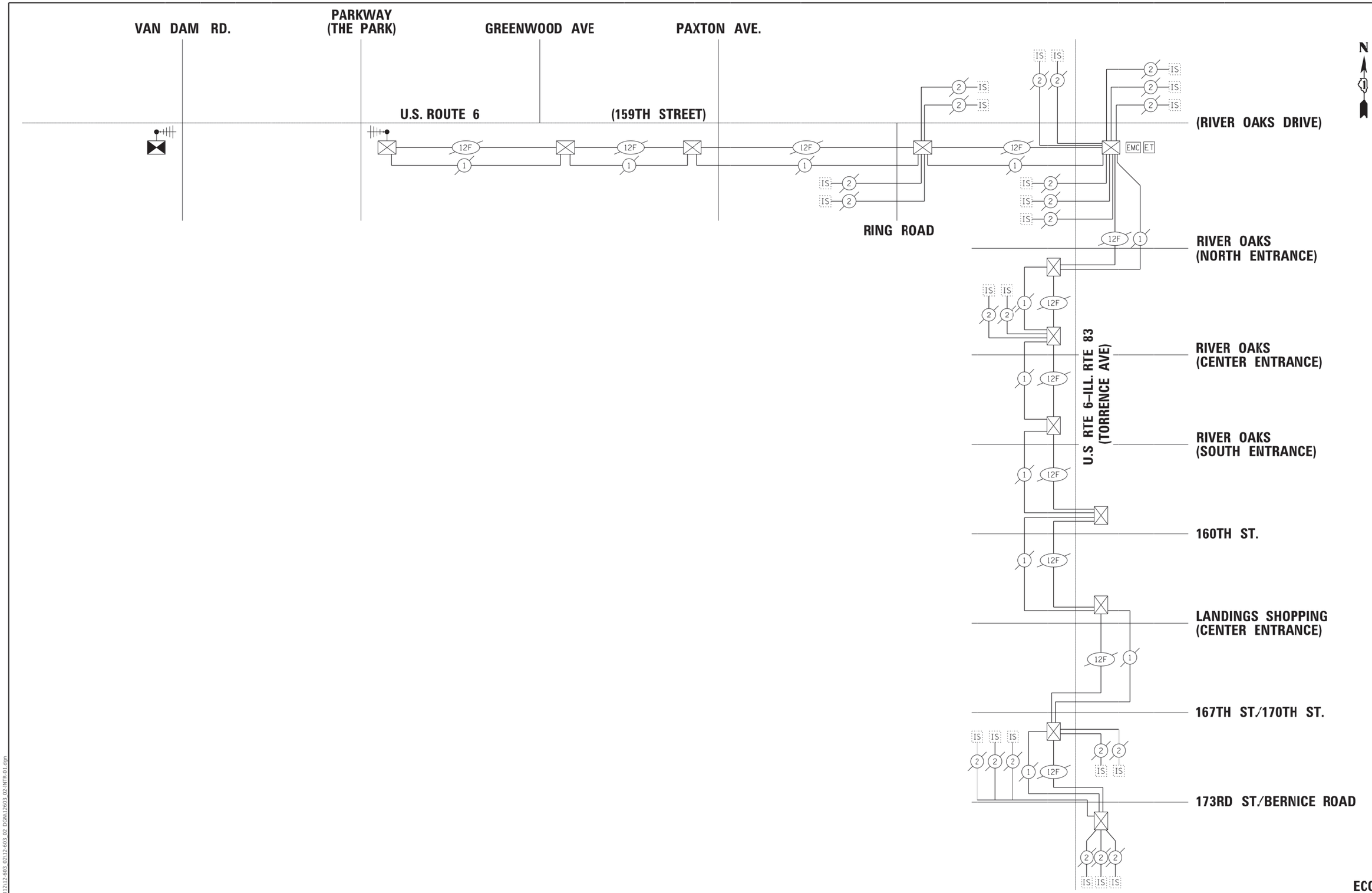
Default	PLOT SCALE = 50.0000 ' / in.	CHECKED - AG	REVISED -
	PLOT DATE = 10/5/2018	DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
US ROUTE 6 (159TH STREET)
VAN DAM ROAD TO PARK AVENUE

SCALE: 1"=50' | SHEET 47 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	47
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			



ECON 49

TS SHT NO. 17

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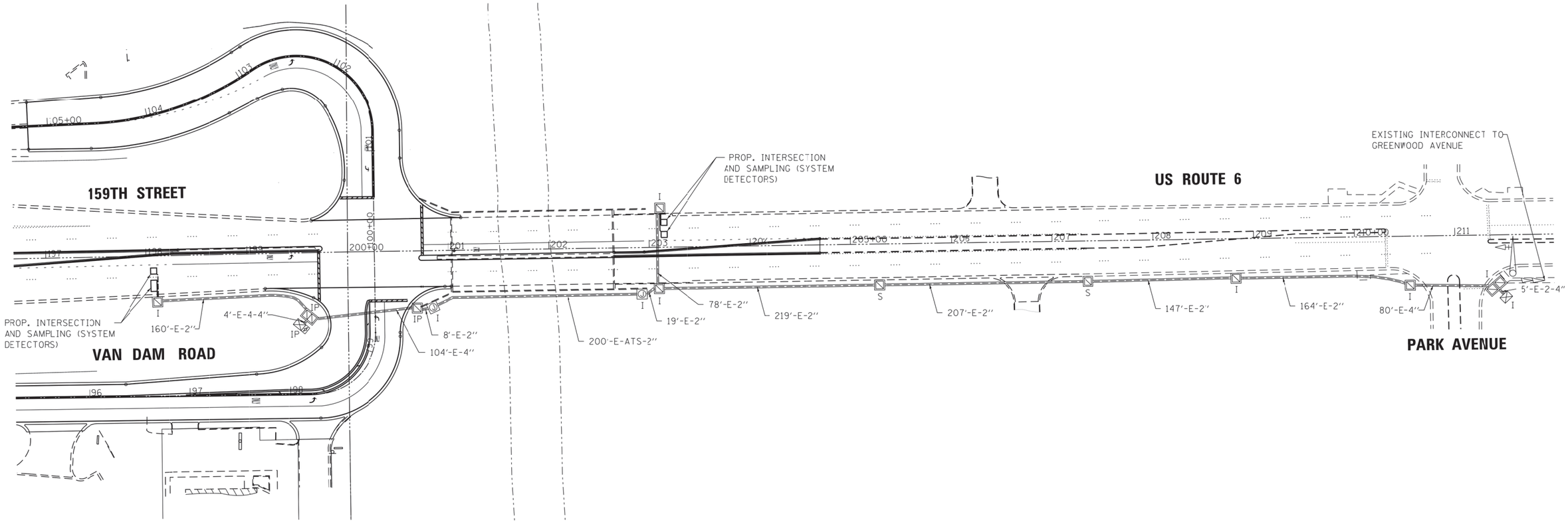
USER NAME = kmuhr	DESIGNED - JDH	REVISED -
	DRAWN - KWM	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 10/5/2018	DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
US ROUTE 6 (159TH STREET)
VAN DAM ROAD TO IL RTE 83 (TORRENCE AVENUE)

SCALE: N.T.S. | SHEET 48 OF 78 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	48
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 20

ECON 49

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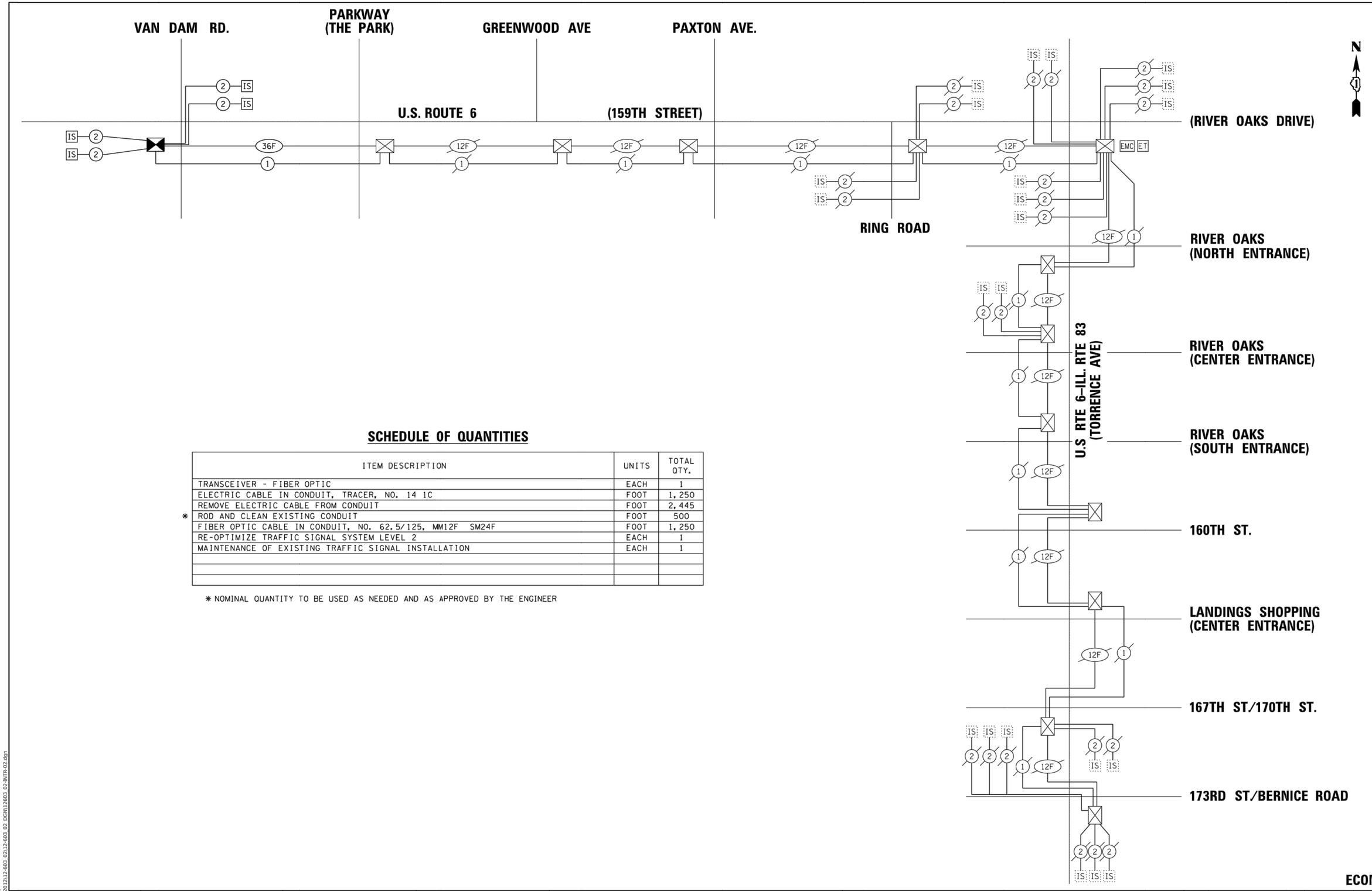
Default	PLOT DATE = 10/5/2018	CHECKED - AG	REVISED -
		DATE - 11-02-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
US ROUTE 6 (159TH STREET)
VAN DAM ROAD TO PARK AVENUE

SCALE: 1"=50' | SHEET 49 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	49
		CONTRACT NO. 61F21		
	ILLINOIS FED. AID PROJECT			



SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,250
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,445
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	500
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,250
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

ECON 49

TS SHT NO. 19

MODEL: Default
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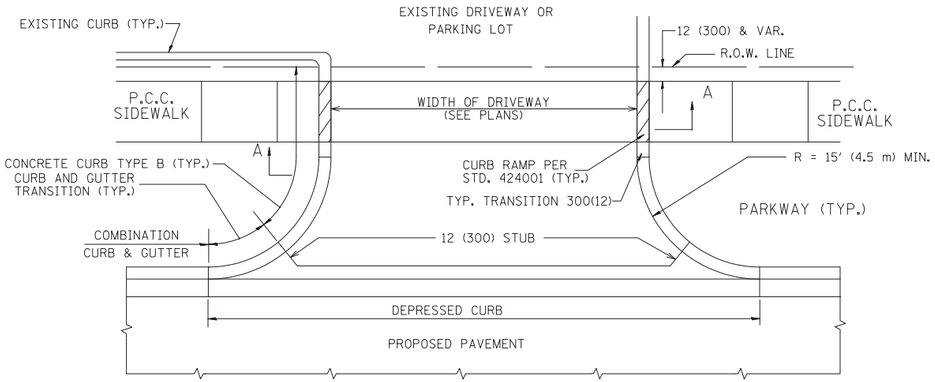
USER NAME = kmuhr	DESIGNED - JDH	REVISED -	
	DRAWN - KWM	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 11/20/2018	DATE - 11-02-18	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

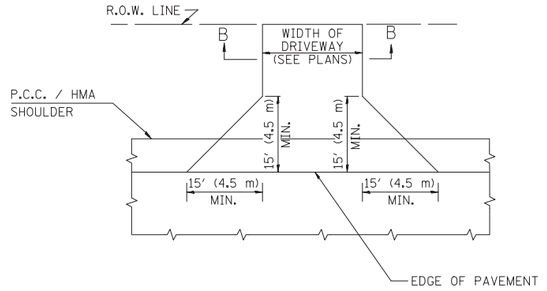
PROPOSED INTERCONNECT SCHEMATIC
US ROUTE 6 (159TH STREET)
VAN DAM ROAD TO IL RTE 83 (TORRENCE AVENUE)

SCALE: N.T.S. | SHEET 50 OF 78 SHEETS | STA. | TO STA.

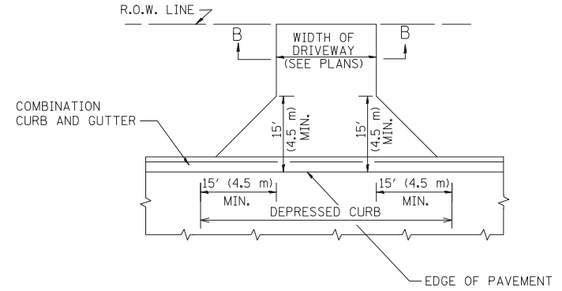
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	50
		CONTRACT NO. 61F21		
		ILLINOIS FED. AID PROJECT		



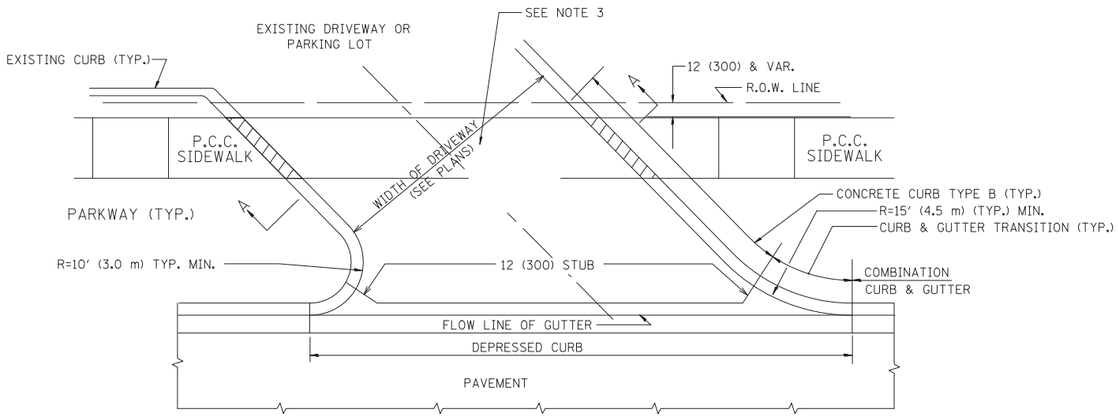
WITH CONCRETE CURB, TYPE B



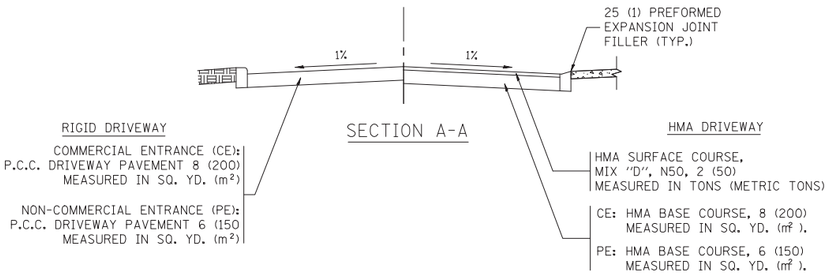
ADJACENT TO P.C.C. / HMA SHOULDER

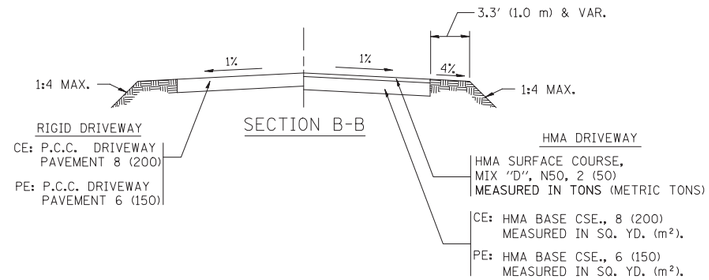


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





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. (m^2).

GENERAL NOTES:

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

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

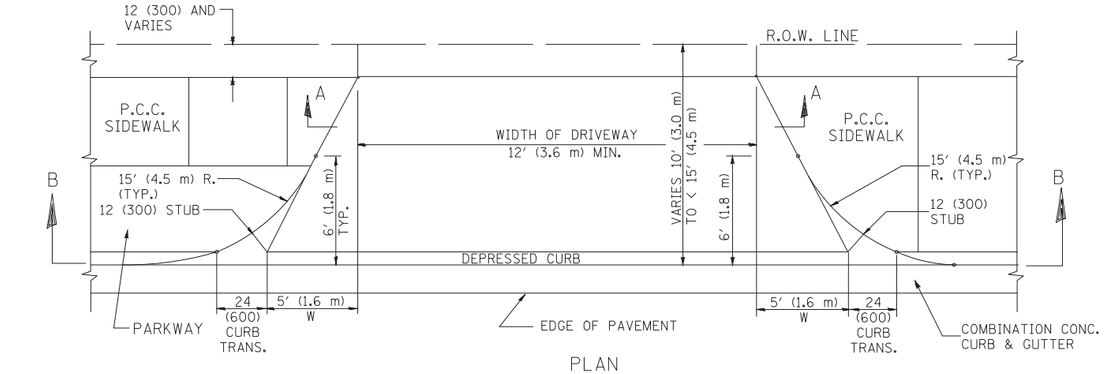
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

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

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

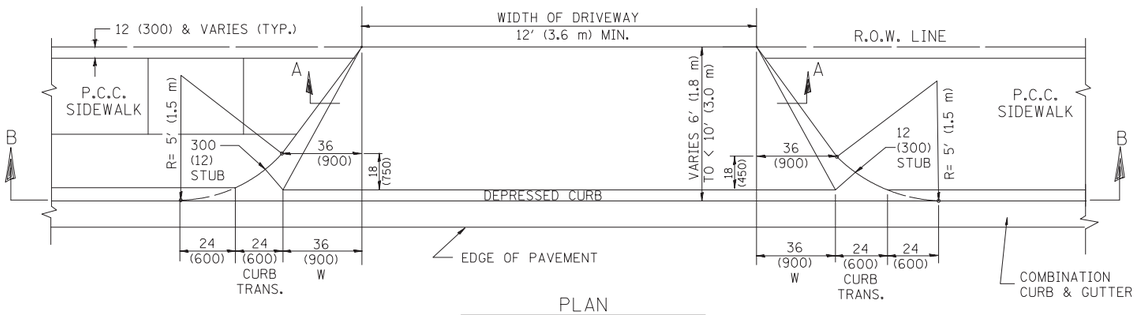
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME = 12603_02-DTLS-01 - BD01	USER NAME = leyso	DESIGNED — R. SHAH	REVISED — P. LaFLUER 04-15-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. BORO 01-01-07					351	14-00103-00-CH	COOK	78	51
	PLOT SCALE = 50.0000 ' / in.	DRAWN —	REVISED — R. BORO 06-11-08						BD0156-07 (BD-01)	CONTRACT NO. 61F21		
	PLOT DATE = 9/6/2011	CHECKED — 11-04-95	REVISED — R. BORO 09-06-11		SCALE: NONE	SHEET NO. 51 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



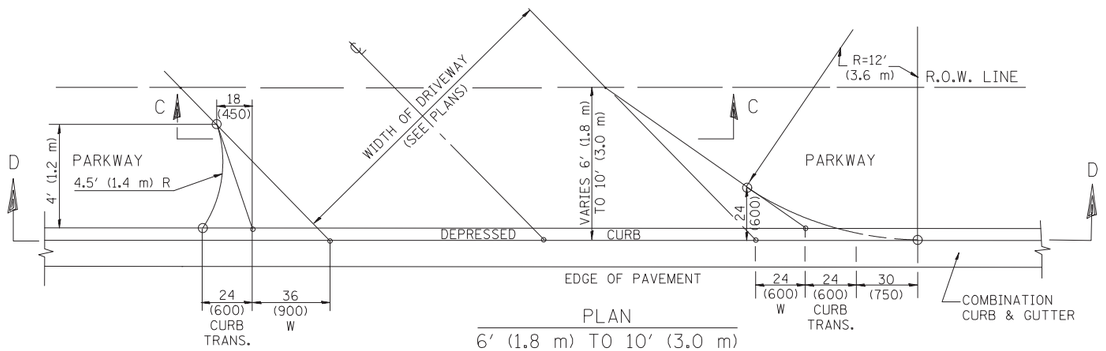
PLAN

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



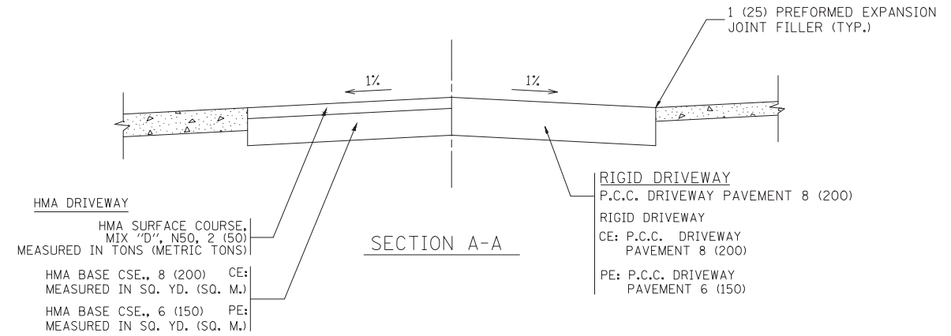
PLAN

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

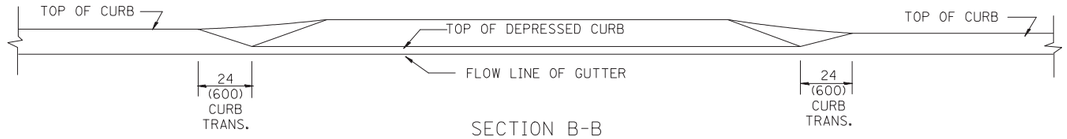


PLAN

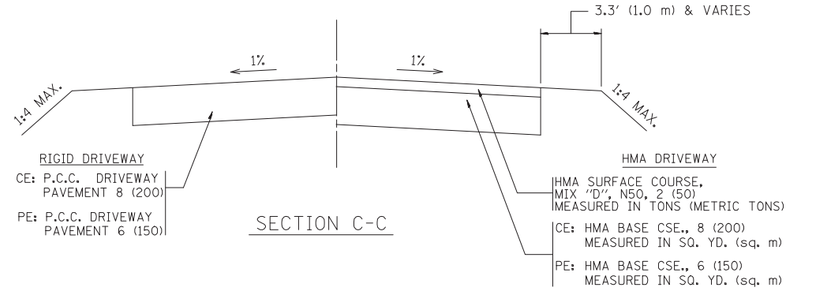
6' (1.8 m) TO 10' (3.0 m)



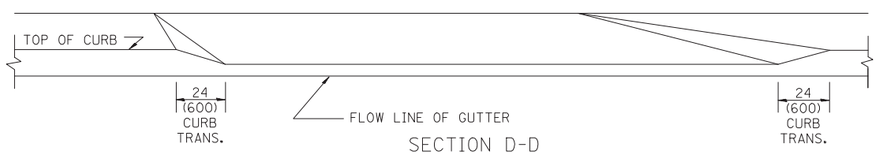
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

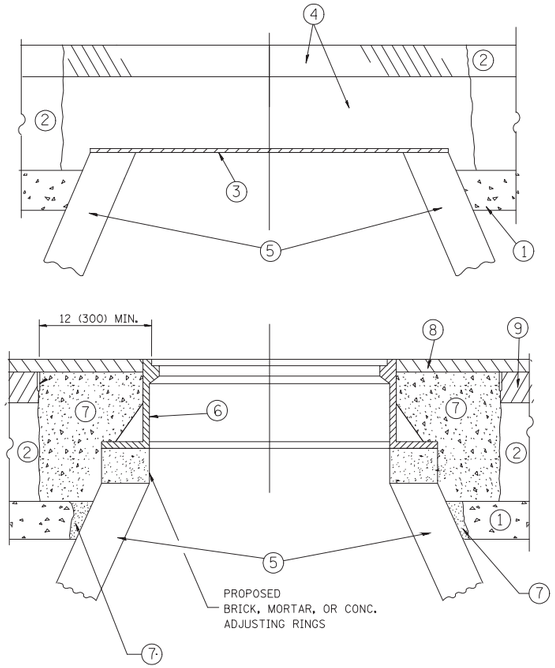
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

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

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

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

FILE NAME = 12603_02-DTLS-01 - BD02	USER NAME = leysa	DESIGNED — R. SHAH	REVISED — M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — P. LaFLEUR 04-15-03					351	14-00103-00-CH	COOK	78	52
	PLOT SCALE = 50.0000 ' / in.	DRAWN —	REVISED — R. BORO 01-01-07						BD400-02 (BD-02)	CONTRACT NO. 61F21		
	PLOT DATE = 10/28/2011	CHECKED — 11-06-95	REVISED — R. BORO 09-06-11		SCALE: NONE	SHEET NO. 52 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

NOTES:

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

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

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

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

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

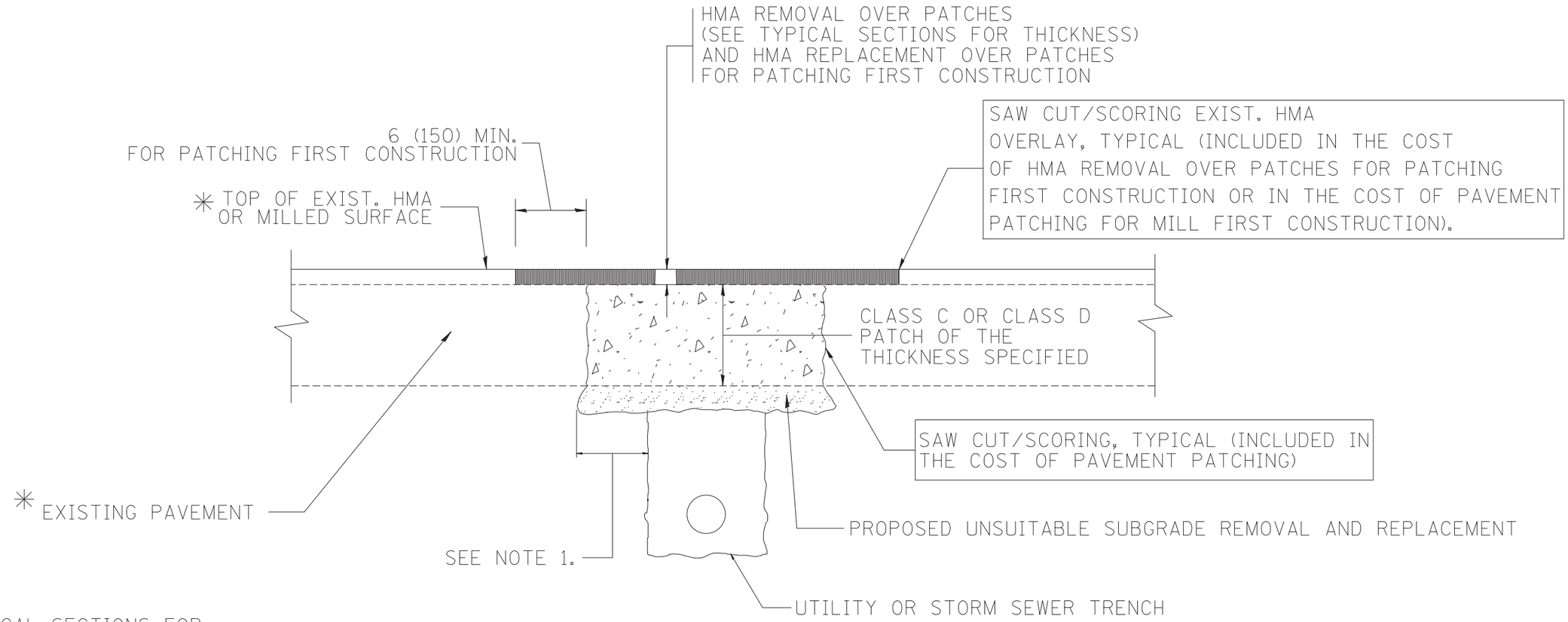
FILE NAME = 12603_02-DTLS-01 - BD08	USER NAME = bauerdl	DESIGNED — R. SHAH	REVISED — R. WIEDEMAN 05-14-04
		CHECKED —	REVISED — R. BORO 01-01-07
	PLOT SCALE = 1968.5000 ' / m	DRAWN —	REVISED — R. BORO 03-09-11
	PLOT DATE = 12/6/2011	CHECKED — 10-25-94	REVISED — R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET NO. 53 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	53
	BD600-03 (BD-8)	CONTRACT NO. 61F21		
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)

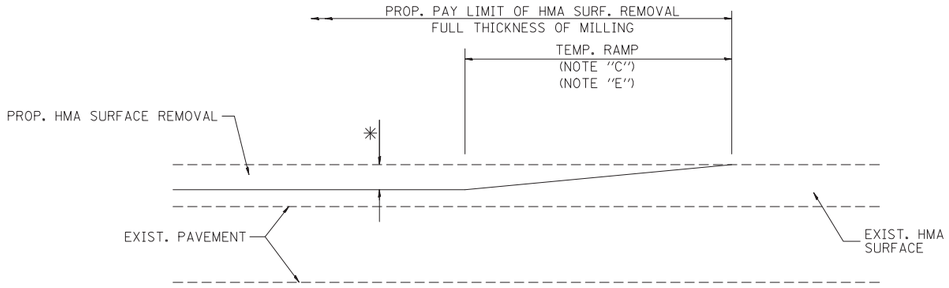
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

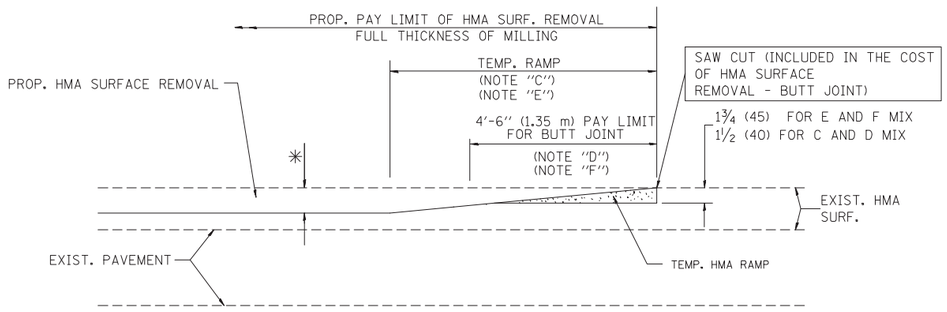
FILE NAME = 12603_02-DTLS-01 - BD22	USER NAME = bauerdl	DESIGNED — R. SHAH	REVISED — A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. BORO 01-01-07					351	14-00103-00-CH	COOK	78	54
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED — R. BORO 09-04-07						BD400-04 (BD-22)	CONTRACT NO. 61F21		
	PLOT DATE = 10/27/2008	CHECKED — 10-25-94	REVISED — K. ENG 10-27-08		SCALE: NONE	SHEET NO. 54 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

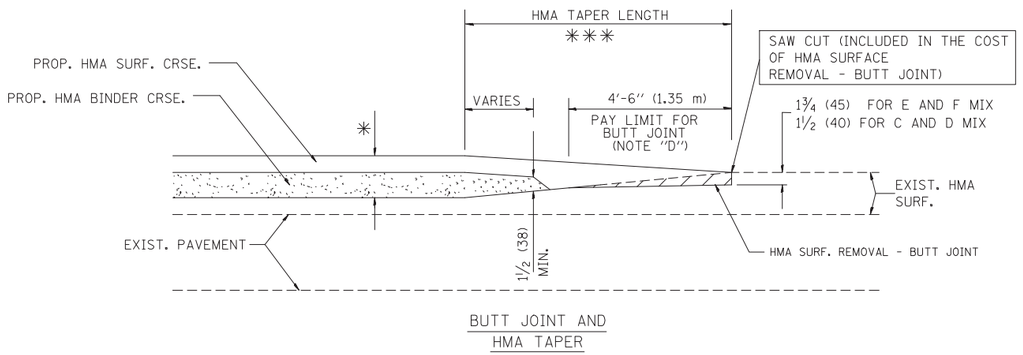


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

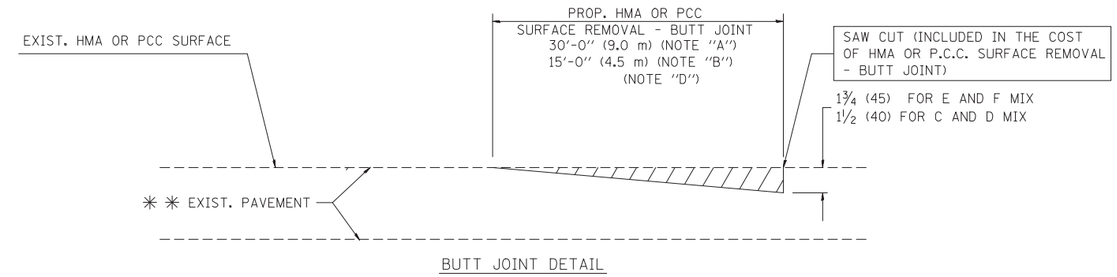
OPTION 2

TYPICAL TEMPORARY RAMP

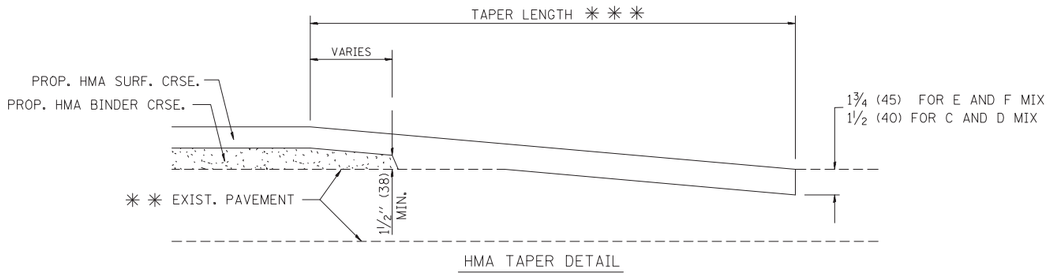


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

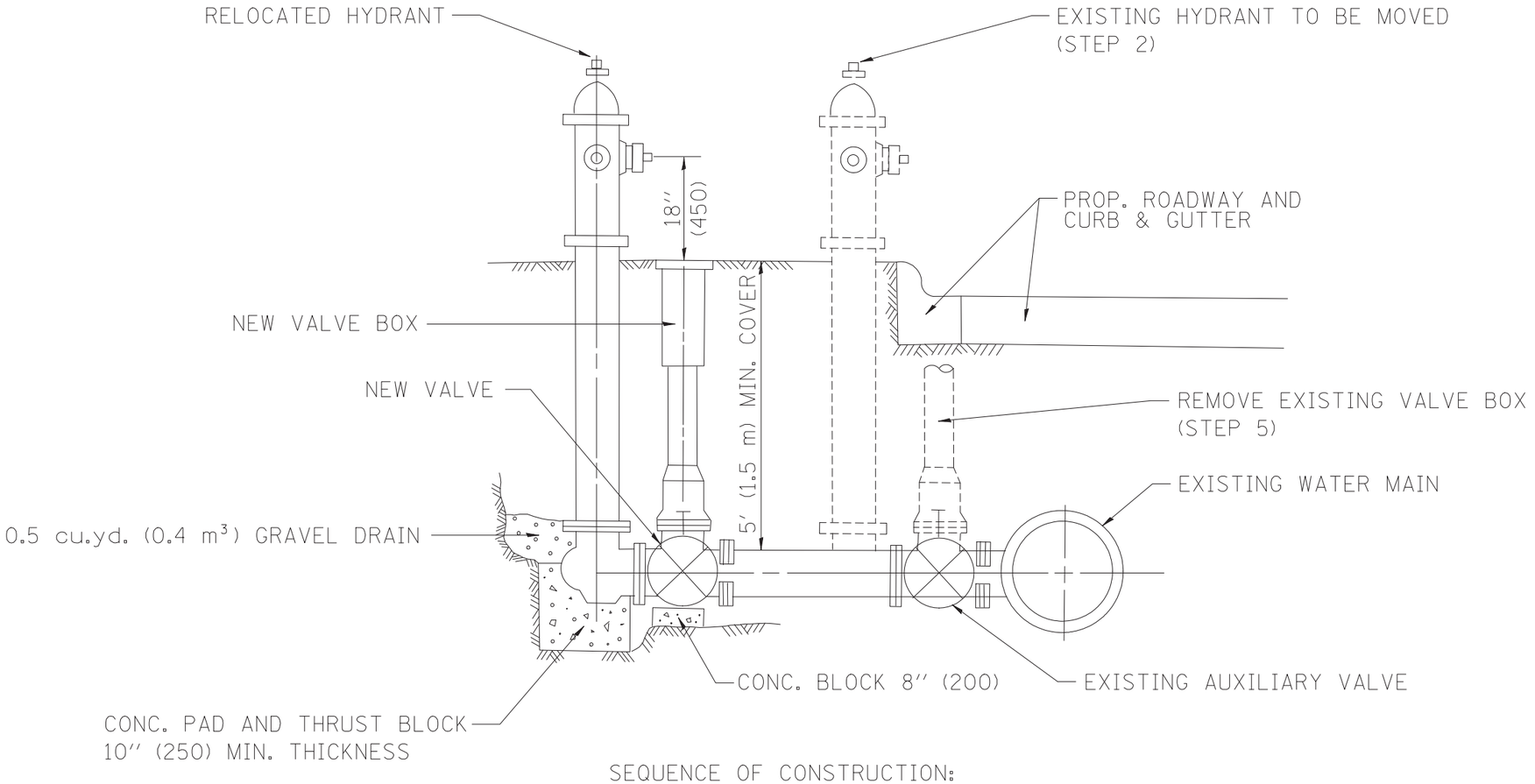
BASIS OF PAYMENT:

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

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

FILE NAME = 12603_02-DTLS-01 - BD32	USER NAME = gaglianobt	DESIGNED — M. DE YONG	REVISED — R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS
		CHECKED —	REVISED — A. ABBAS 03-21-97		
	PLOT SCALE = 50.0000 ' / IN.	DRAWN —	REVISED — M. GOMEZ 04-06-01		
	PLOT DATE = 1/4/2008	CHECKED — 06-13-90	REVISED — R. BORO 01-01-07		SCALE: NONE | SHEET NO. 55 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	55
	BD400-05 BD32	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



SEQUENCE OF CONSTRUCTION:

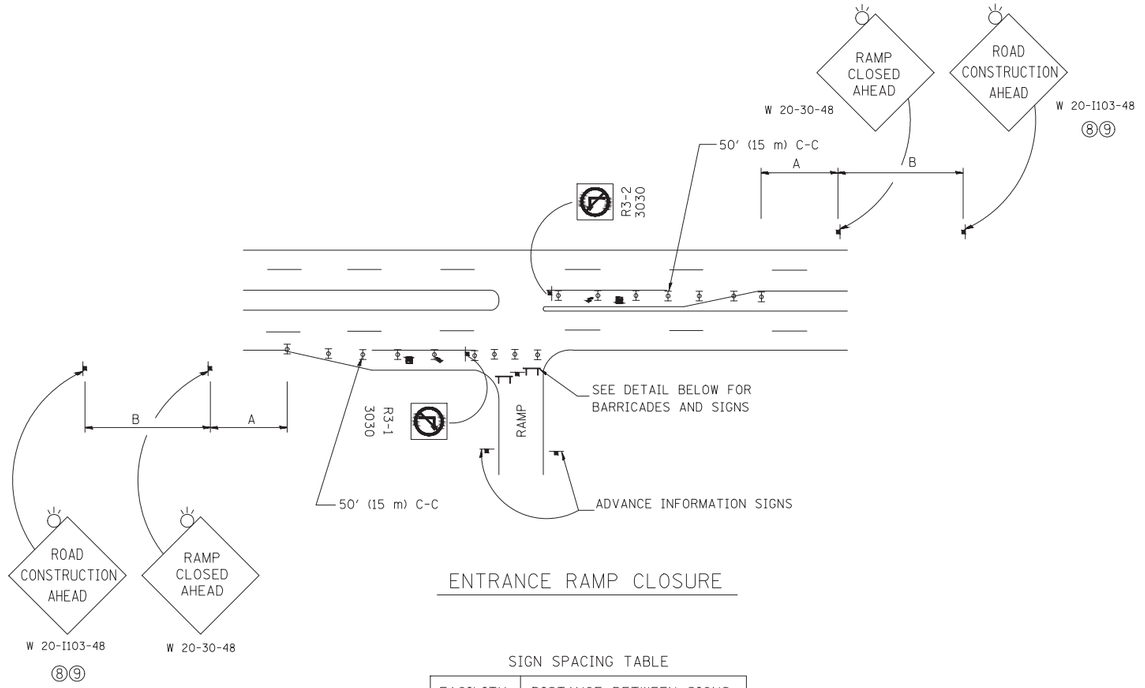
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

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

FIRE HYDRANT TO BE MOVED

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

FILE NAME = 12603_02-DTLS-01 - BD36	USER NAME = gaglianobt	DESIGNED —	REVISED — R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. SHAH 10-25-94				351	14-00103-00-CH	COOK	78	56
	PLOT SCALE = 50.0000 '/ IN.	DRAWN —	REVISED —					BD-36	CONTRACT NO. 61F21		
	PLOT DATE = 1/4/2008	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 56 OF 78 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

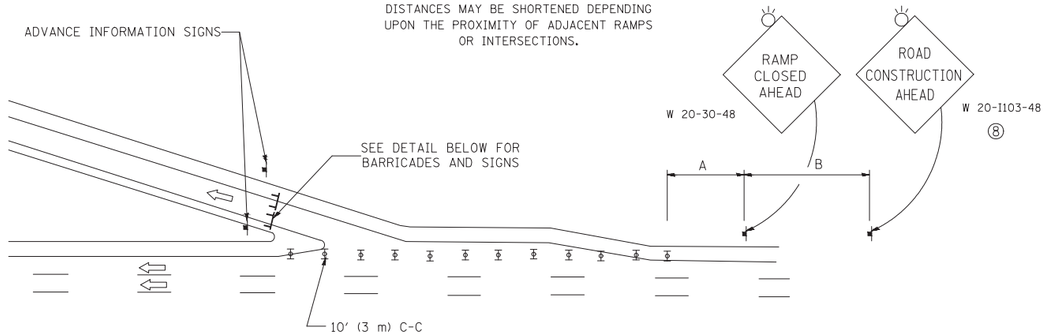


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

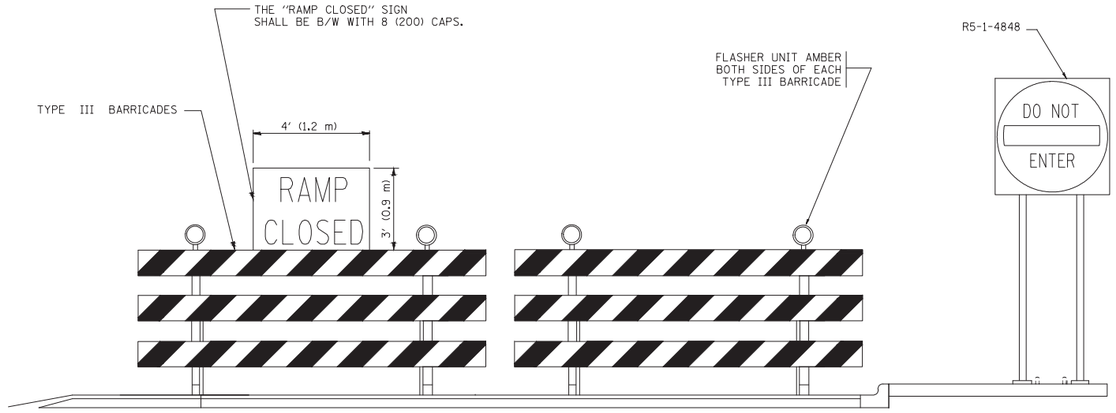


EXIT RAMP CLOSURE

SYMBOLS

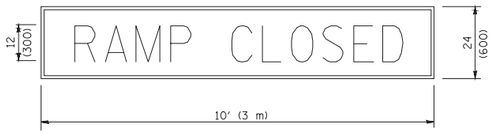
TYPE II BARRICADE OR DRUM

TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

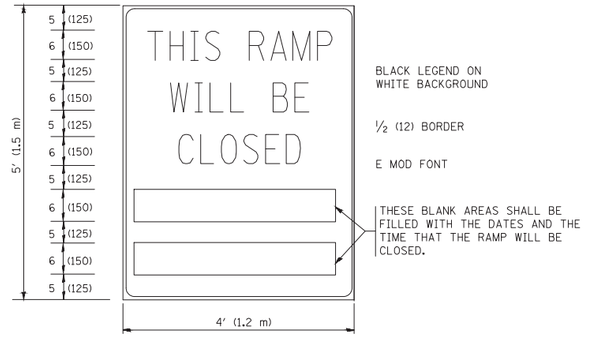
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME = 12603_02-DTLS-01 - TC08

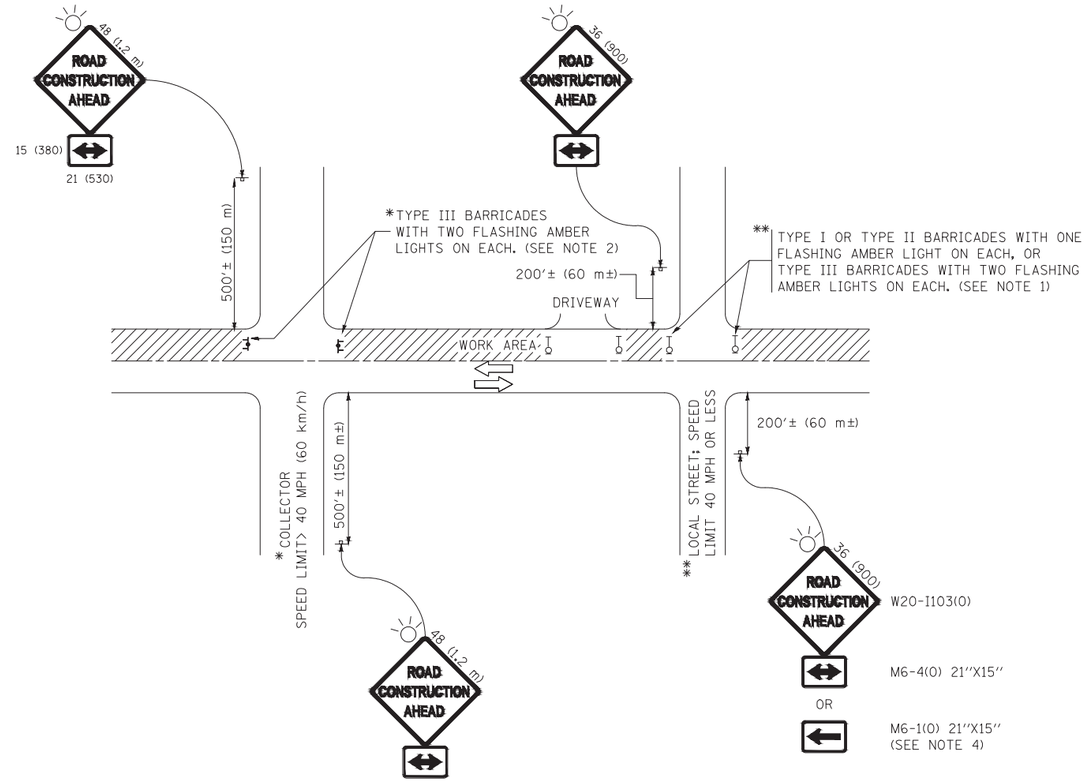
USER NAME = footemj	DESIGNED — D.W.S.	REVISED — S.P.B. 01-07	
	CHECKED —	REVISED — S.P.B. 12-09	
PLOT SCALE = 50.000 ' / in.	DRAWN —	REVISED — M.D. 06-13	
PLOT DATE = 11/27/2017	CHECKED — 02-83	REVISED — M.D. 01-18	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP CLOSURE DETAILS

SCALE: NONE | SHEET NO. 57 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	57
	TC-08	CONTRACT NO. 61F21		
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.

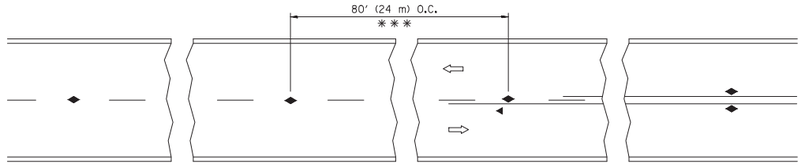
FILE NAME = 12603_02-DTLS-01 - TC10	USER NAME = footemj	DESIGNED — L.H.A.	REVISED — A. HOUSEH 10-15-96
		CHECKED —	REVISED —T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	DRAWN —	REVISED — A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	CHECKED — 06-89	REVISED — A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

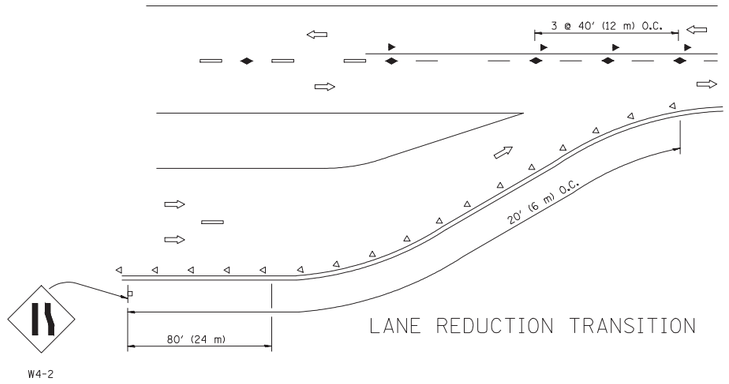
SCALE: NONE | SHEET NO. 58 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	58
	TC-10	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

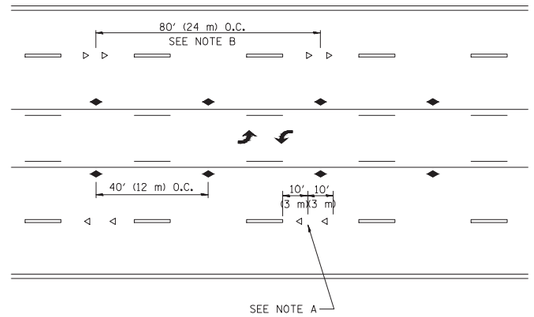


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

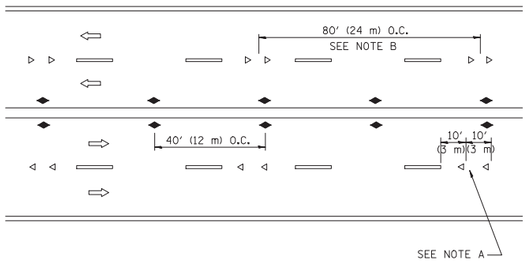
TWO-LANE/TWO-WAY



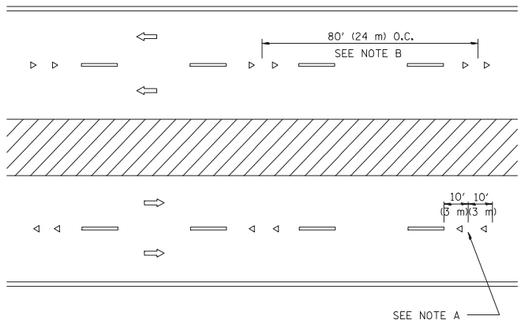
LANE REDUCTION TRANSITION



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

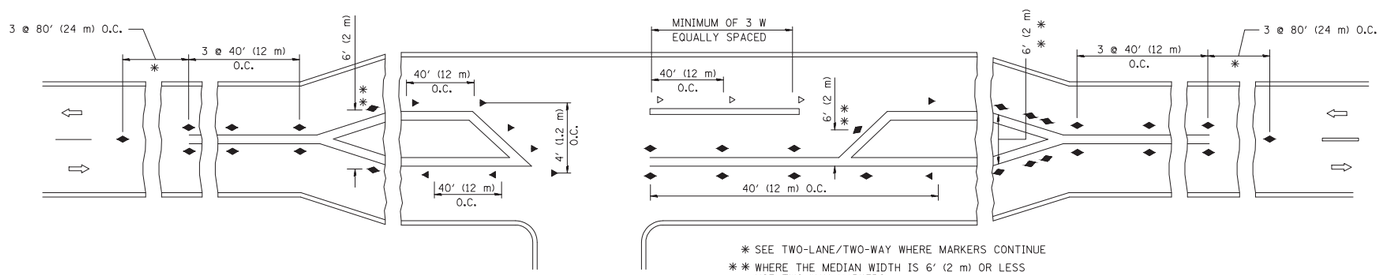
LANE MARKER NOTES

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

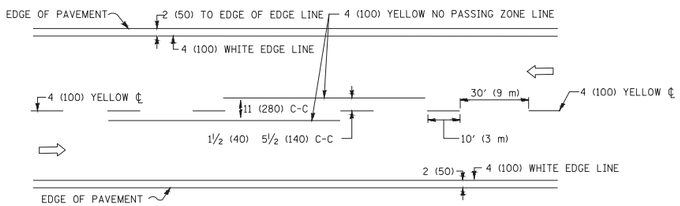
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS 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.



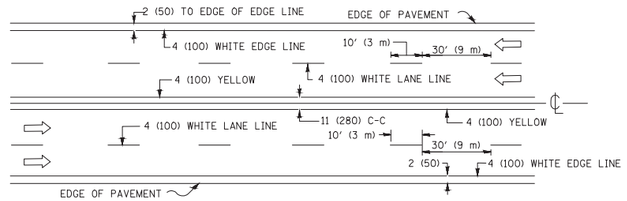
LEFT TURN

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

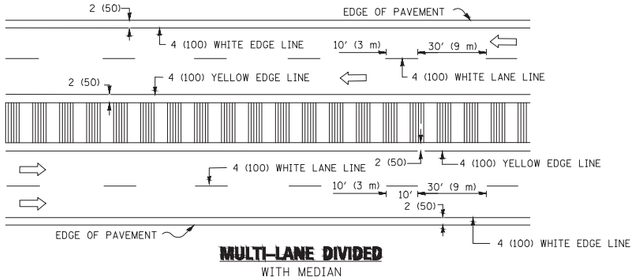
FILE NAME = 12603_02-DTLS-01 - TC11	USER NAME = leyso	DESIGNED —	REVISED —T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —T. RAMMACHER 03-12-99					351	14-00103-00-CH	COOK	78	59
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED —T. RAMMACHER 01-06-00						TC-11	CONTRACT NO. 61F21		
	PLOT DATE = 3/2/2011	CHECKED —	REVISED —C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 59 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



2-LANE ROADWAY

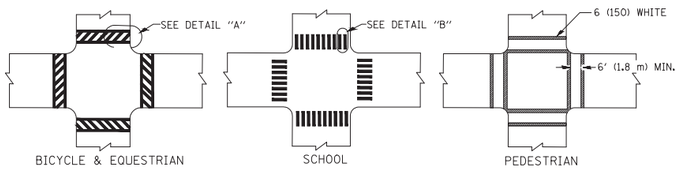


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED
WITH MEDIAN

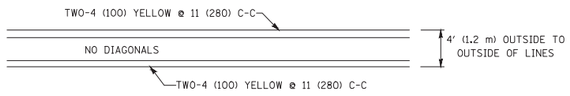
TYPICAL LANE AND EDGE LINE MARKING



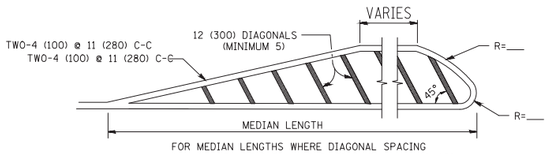
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



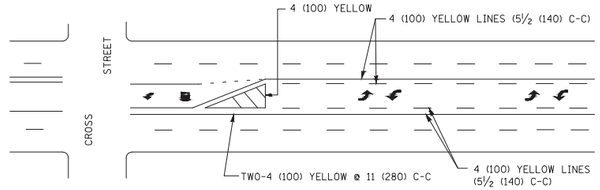
4' (1.2 m) WIDE MEDIANS ONLY



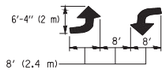
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

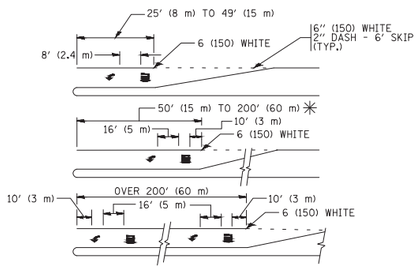


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

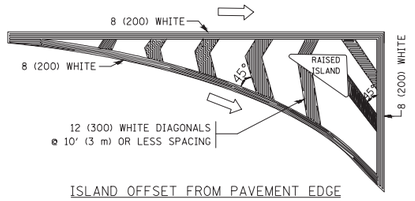


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

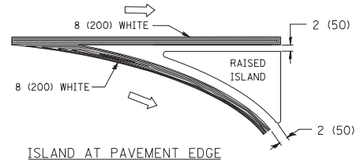
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

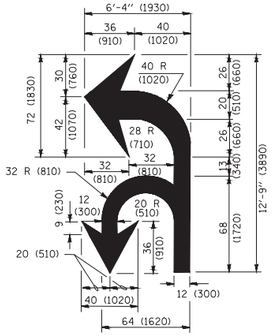


ISLAND OFFSET FROM PAVEMENT EDGE

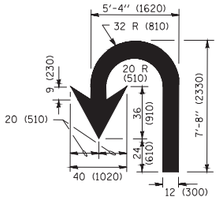


ISLAND AT PAVEMENT EDGE

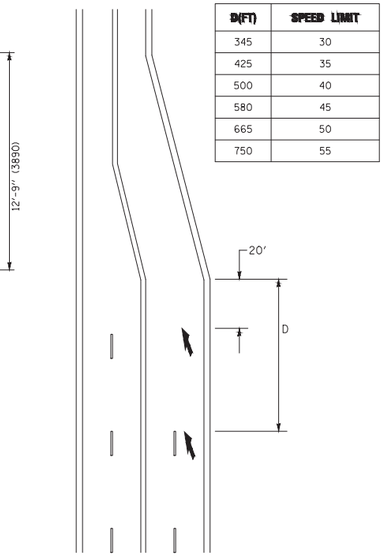
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



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

LANE REDUCTION TRANSITION

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

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	5½ (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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⊠ 6 (150) 12 (300) ⊠ 45° 12 (300) ⊠ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⊠ 4 (100) WITH 12 (300) DIAGONALS ⊠ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⊠ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) 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 780001.

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

FILE NAME = 12603_02-DTLS-01 - TC13

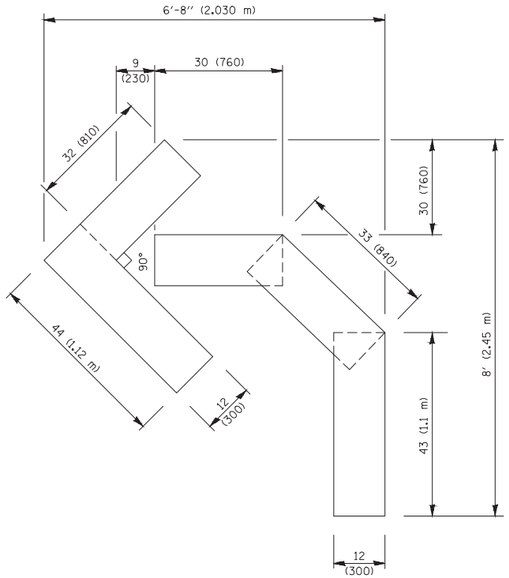
USER NAME = footemj	DESIGNED — EVERS	REVISED — C. JUCIUS 09-09-09	
	CHECKED —	REVISED — C. JUCIUS 07-01-13	
PLOT SCALE = 50.000 ' / in.	DRAWN —	REVISED — C. JUCIUS 12-21-15	
PLOT DATE = 4/13/2016	CHECKED — 03-19-90	REVISED — C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

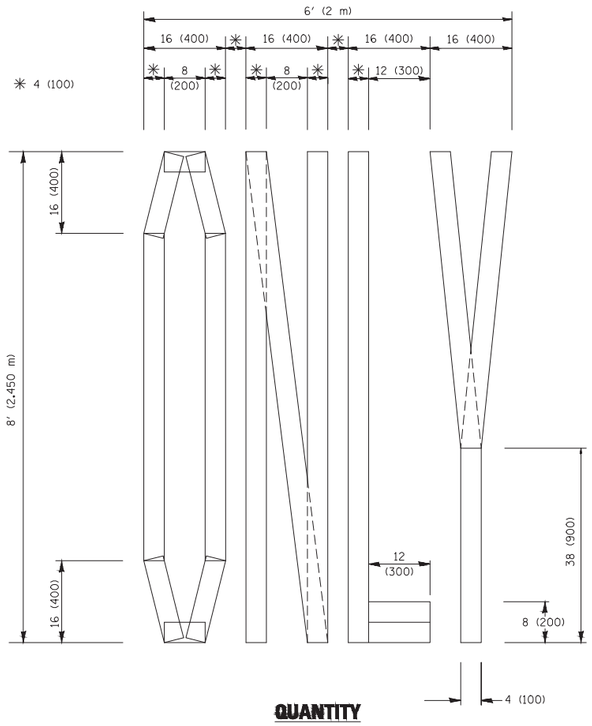
SCALE: NONE | SHEET NO. 60 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	60
	TC-13	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



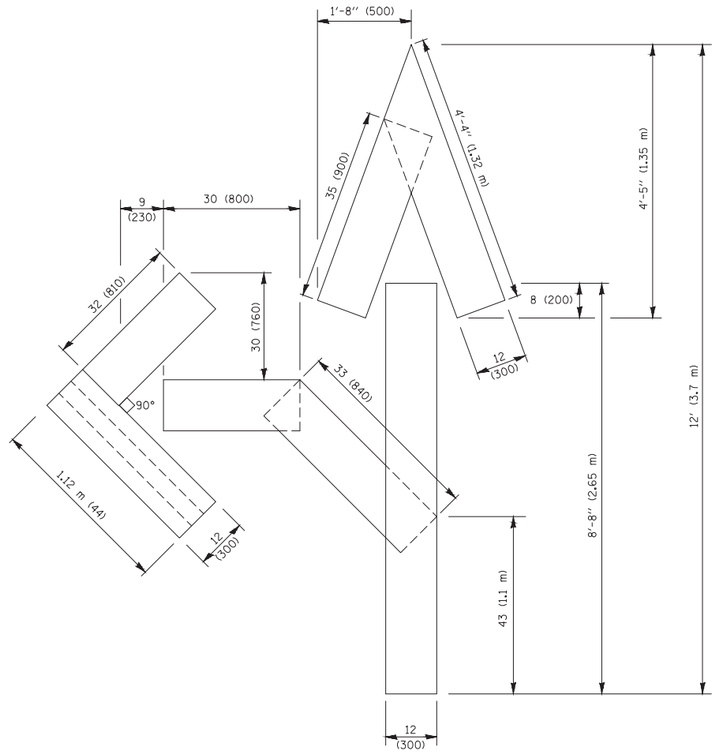
QUANTITY

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



QUANTITY

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

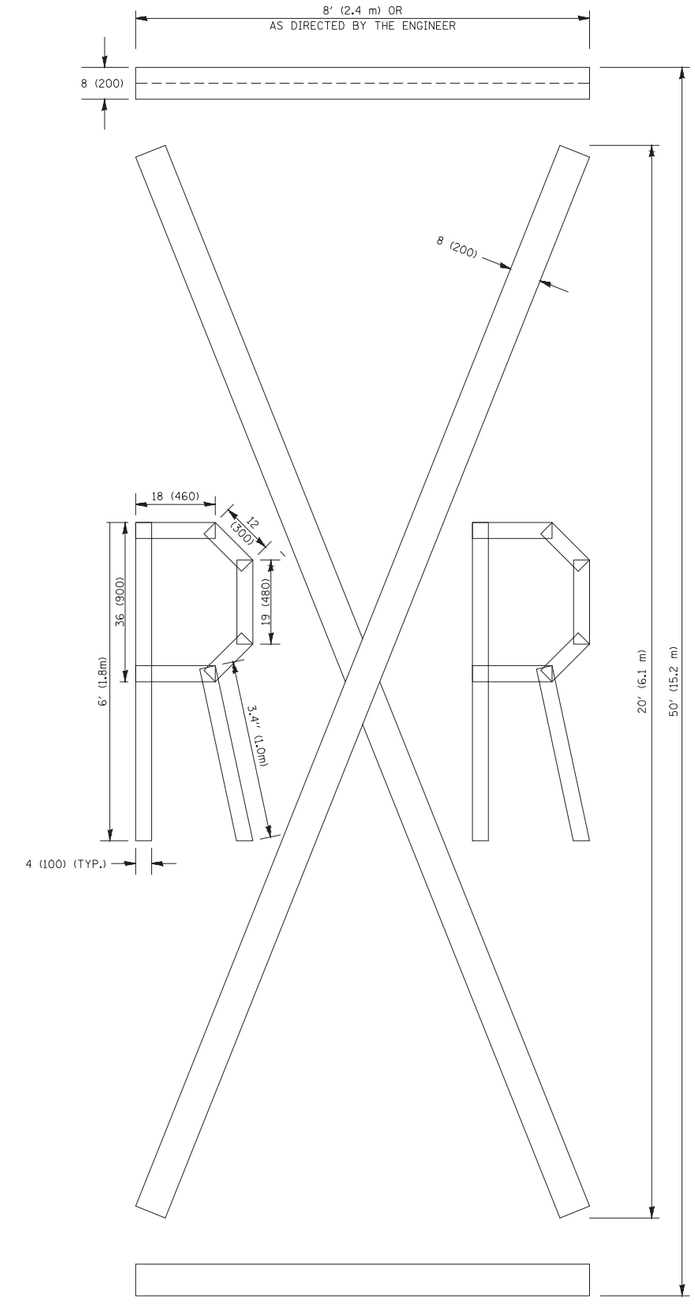


QUANTITY

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

NOTE:

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



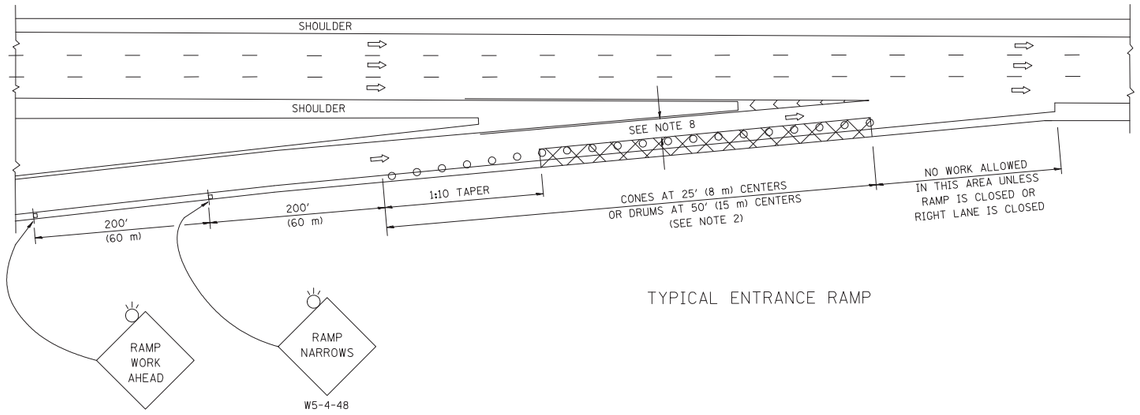
QUANTITY

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

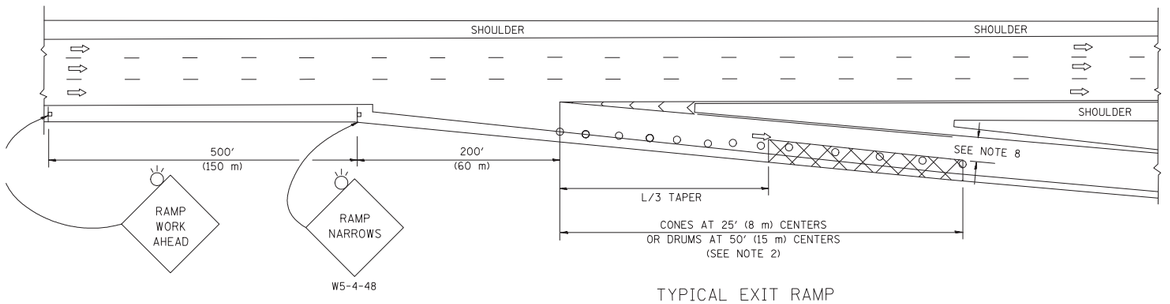
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = 12603_02-DTLS-01 - TC16	USER NAME = footemj	DESIGNED —	REVISED —T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —E. GOMEZ 08-28-00			351	14-00103-00-CH	COOK	78	61
	PLOT SCALE = 50.0000 ' / in.	DRAWN —	REVISED —E. GOMEZ 08-28-00				TC-16	CONTRACT NO. 61F21		
	PLOT DATE = 9/15/2016	CHECKED — 09-18-94	REVISED —A. SCHUETZE 09-15-16		SCALE: NONE / SHEET NO. 61 OF 78 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

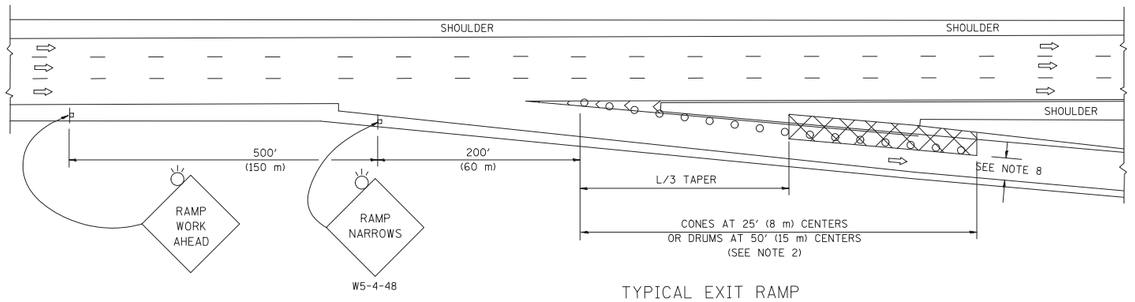
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

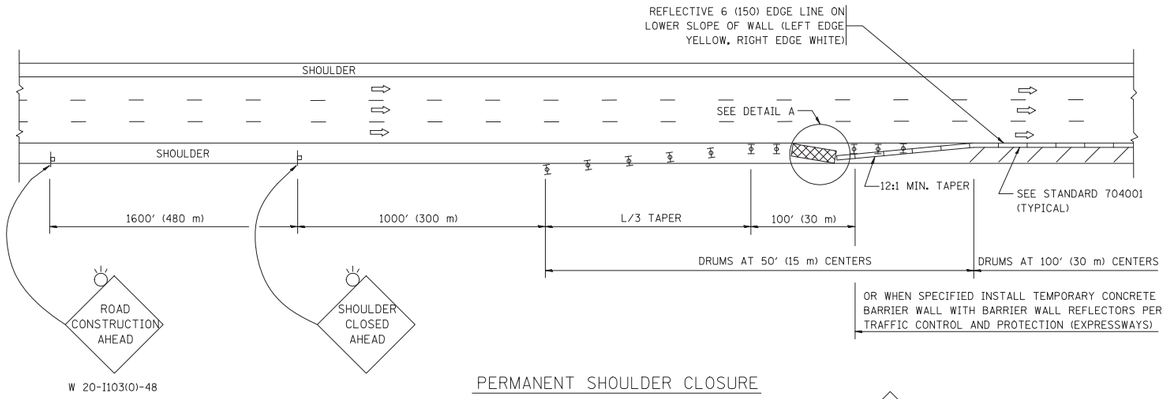


TYPICAL EXIT RAMP

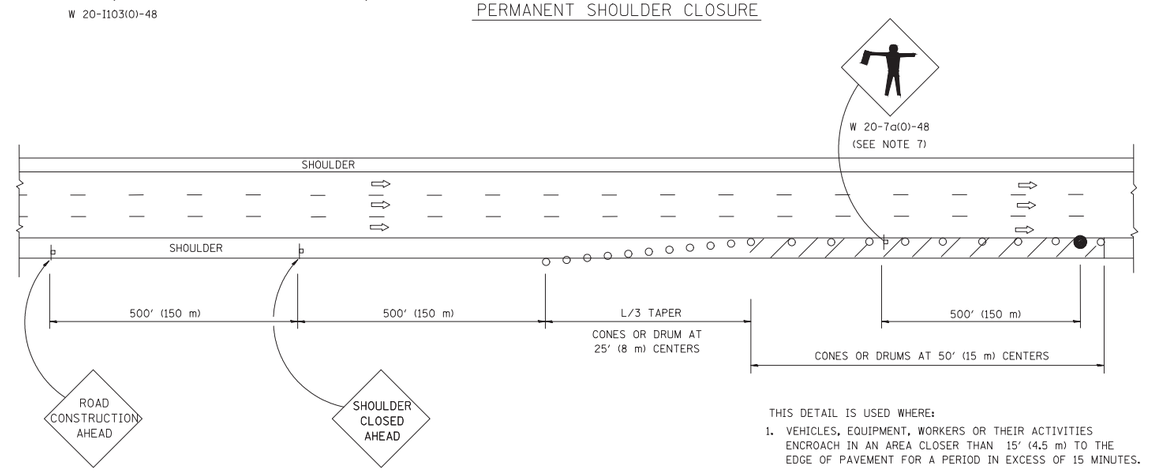


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



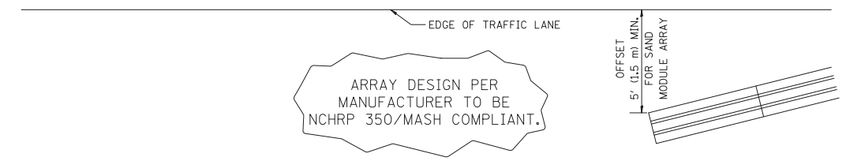
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15′ (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100′ (30 m) TO 200′ (60 m) IN ADVANCE OF THE WORKERS.
8. 12′ MIN. WIDTH TANGENT SECTION
   16′ MIN. WIDTH CURVE SECTION.

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

FILE NAME = 12603_02-DTLS-01 - TC17	USER NAME = footemj	DESIGNED —	REVISED — S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
		CHECKED — D.W.S.	REVISED — S.P.B. 12-09		
	PLOT SCALE = 50.0000 ′ / in.	DRAWN —	REVISED — M.D. 06-13		
	PLOT DATE = 11/27/2017	CHECKED — 11-96	REVISED — M.D. 01-18		

SCALE: NONE	SHEET NO. 62 OF 78 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	62
	TC-17	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

ROUTE MARKERS

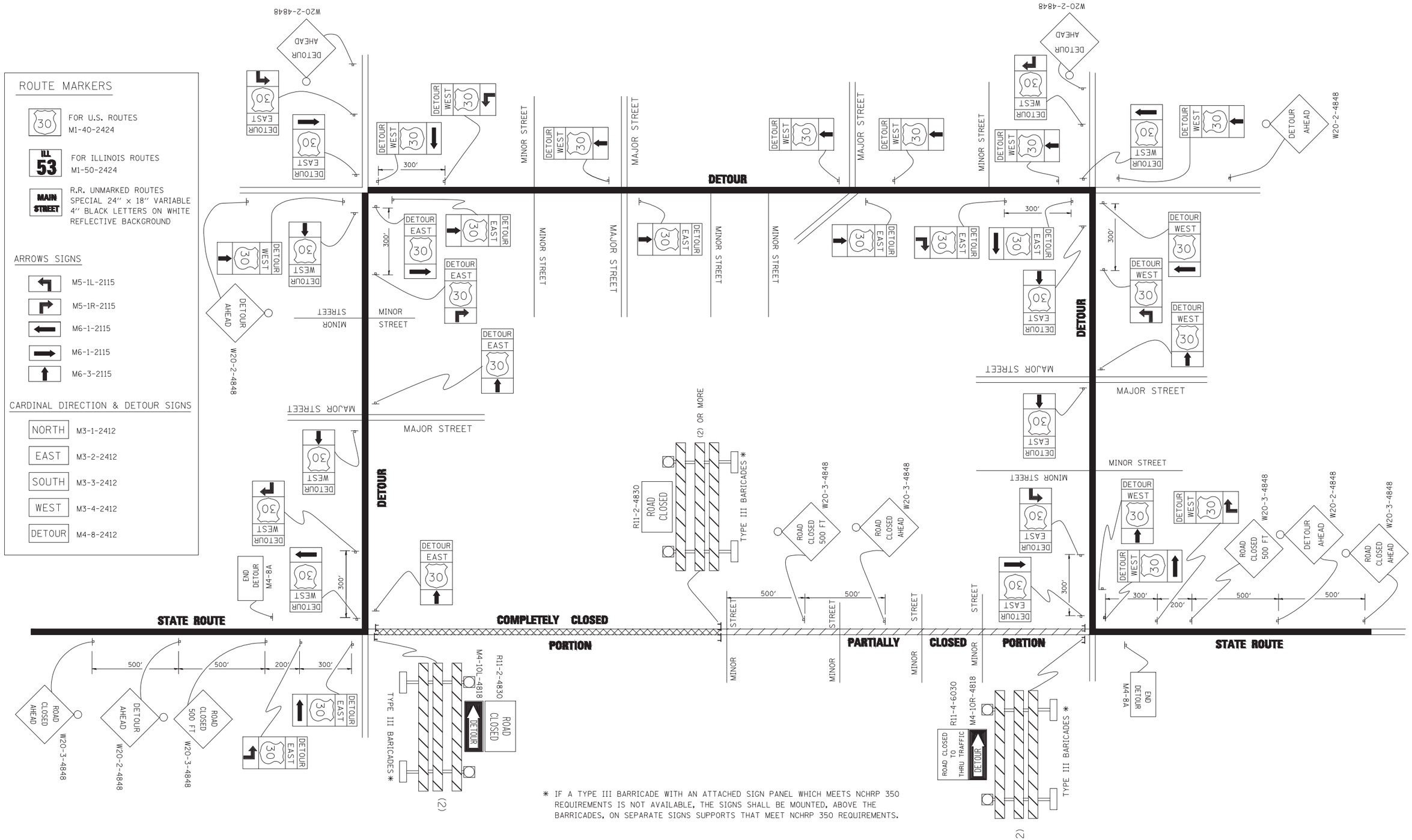
- FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

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.

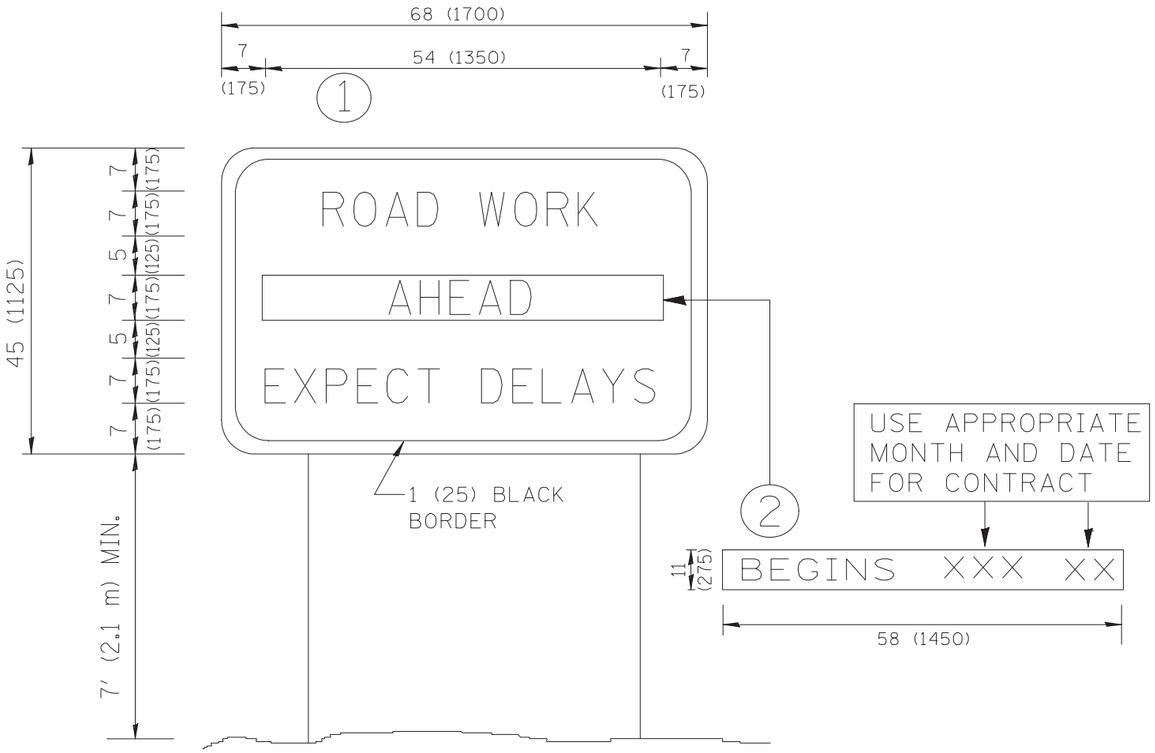
FILE NAME = 12603_02-DTLS-01 - TC21	USER NAME = drivakosgn	DESIGNED —	REVISED —10-18-02
		CHECKED —	REVISED —R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	DRAWN —	REVISED —
	PLOT DATE = 9/14/2009	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET NO. 63 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	63
	TC-21	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



NOTES:

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

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

FILE NAME = 12603_02-DTLS-01 - TC22	USER NAME = gaglianobt	DESIGNED —	REVISED — R. MIRS 09-15-97
		CHECKED —	REVISED — R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	DRAWN —	REVISED — T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	CHECKED —	REVISED — C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 64 OF 78 SHEETS | STA. | TO STA.

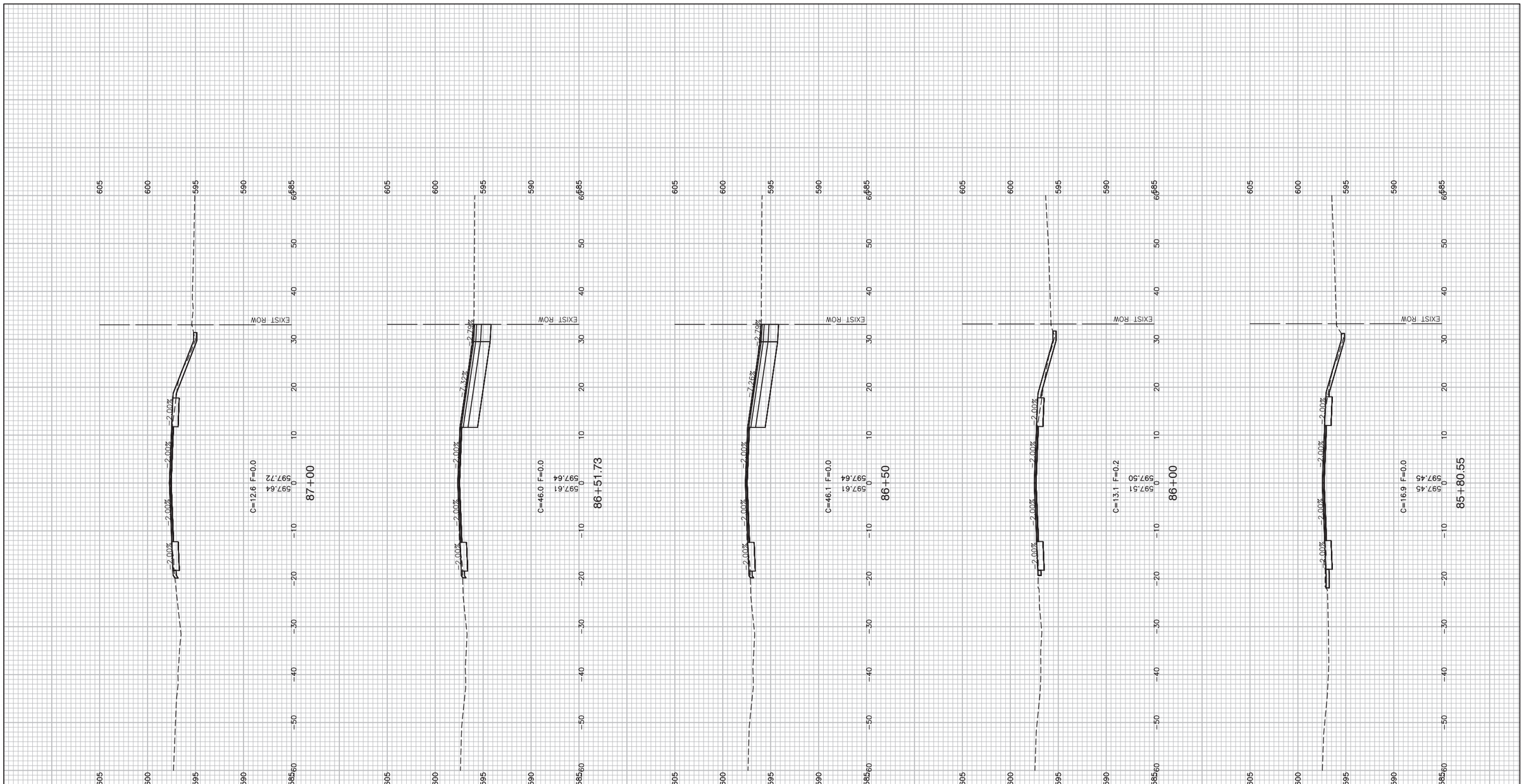
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	64
	TC-22	CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		

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

NOTES:

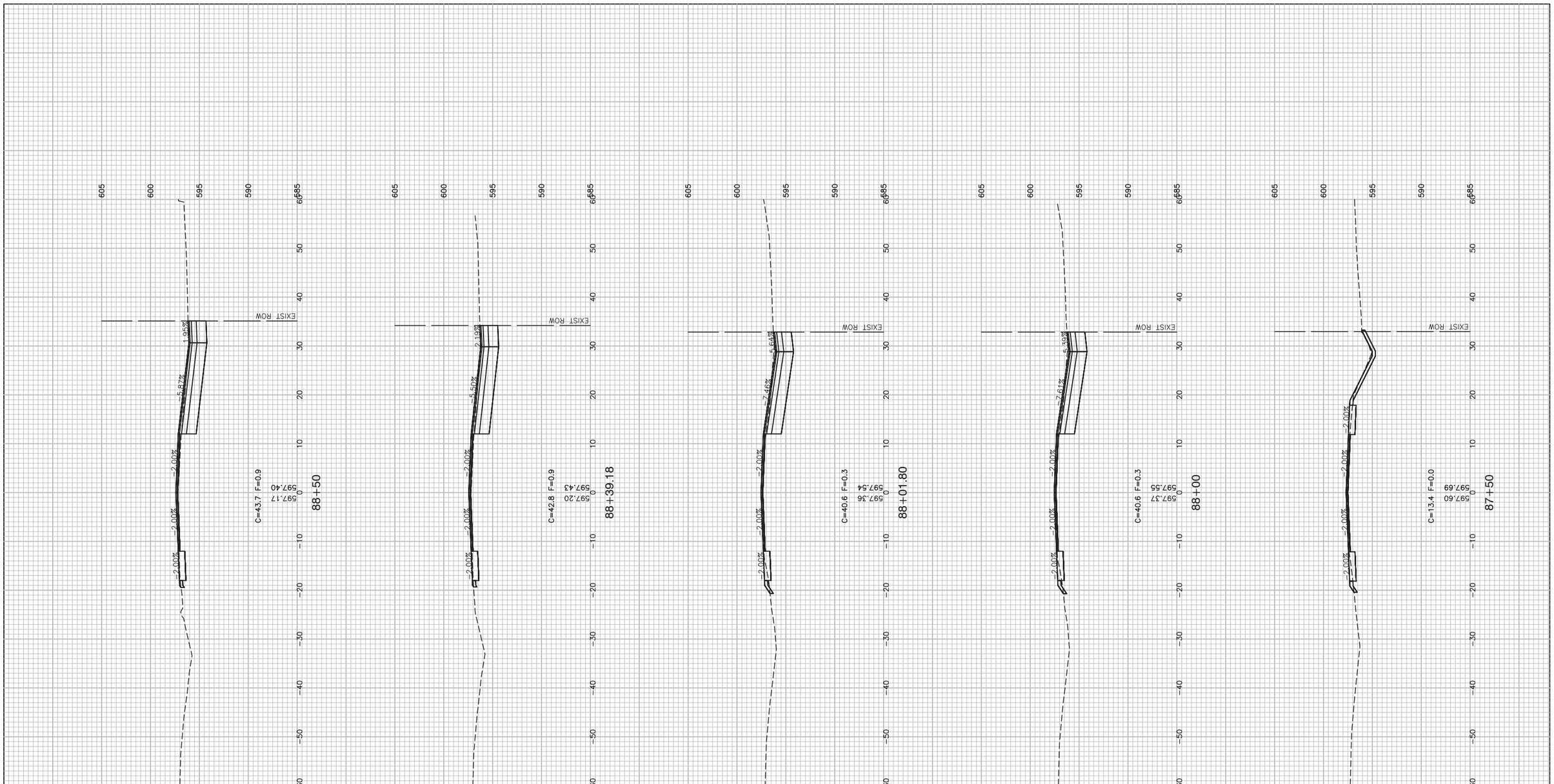
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.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

FILE NAME = 12603_02-DTLS-01 - TC26	USER NAME = gaglianobt	DESIGNED —	REVISED — C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —					351	14-00103-00-CH	COOK	78	65
	PLOT SCALE = 50.000 ' / in.	DRAWN —	REVISED —						TC-26	CONTRACT NO. 61F21		
	PLOT DATE = 12/13/2012	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 65 OF 78 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



FILE NAME = 12603_02-XSEC-01 - X01	USER NAME =	DESIGNED — JPH	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 6 (159TH STREET) AT VAN DAM ROAD INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — JH/RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: SHEET NO. 66 OF 78 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	66
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



FILE NAME = 12603_02-XSEC-01 - X02

USER NAME =	DESIGNED — JPH	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — JH/RG	REVISED —
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

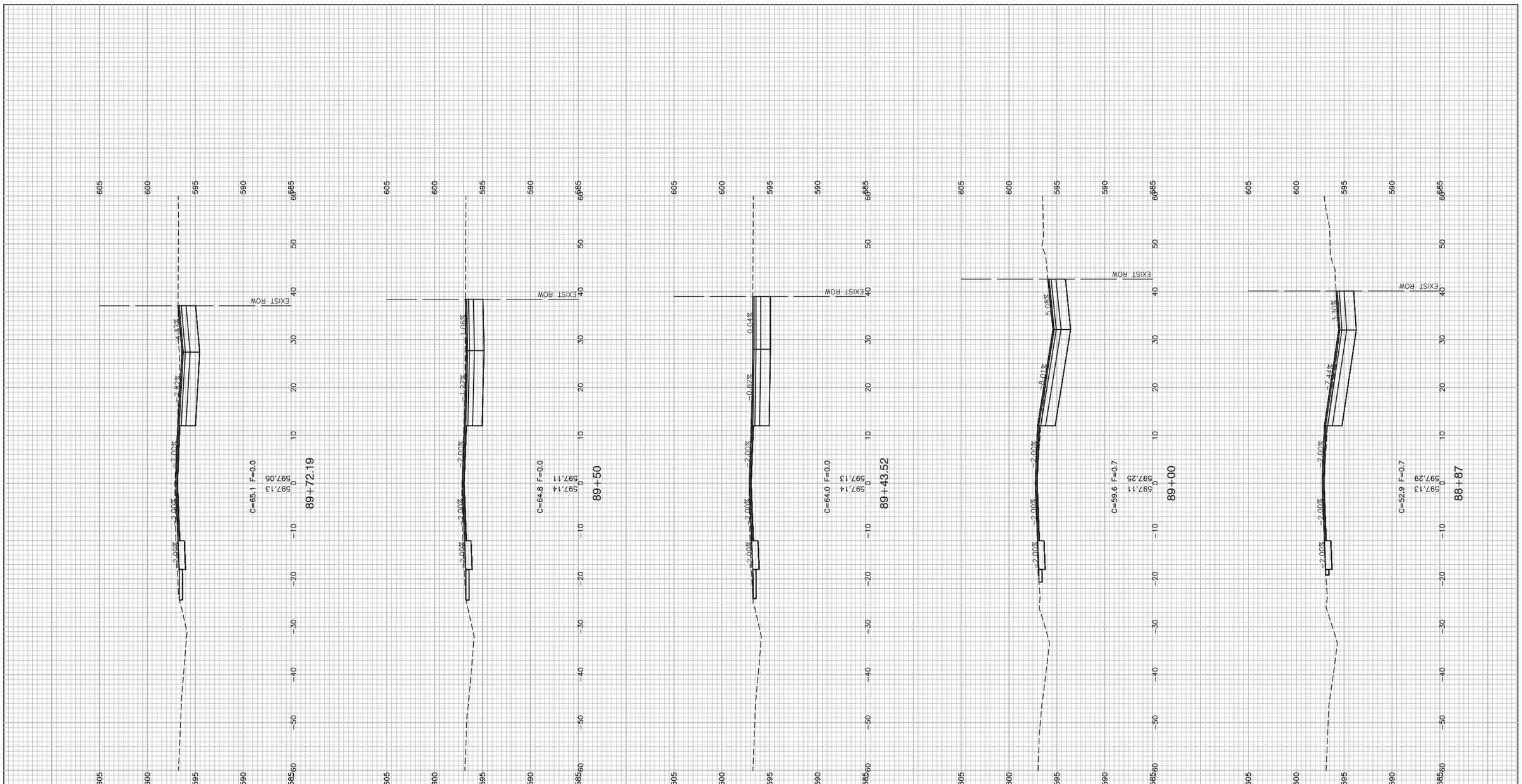
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 67 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	67
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



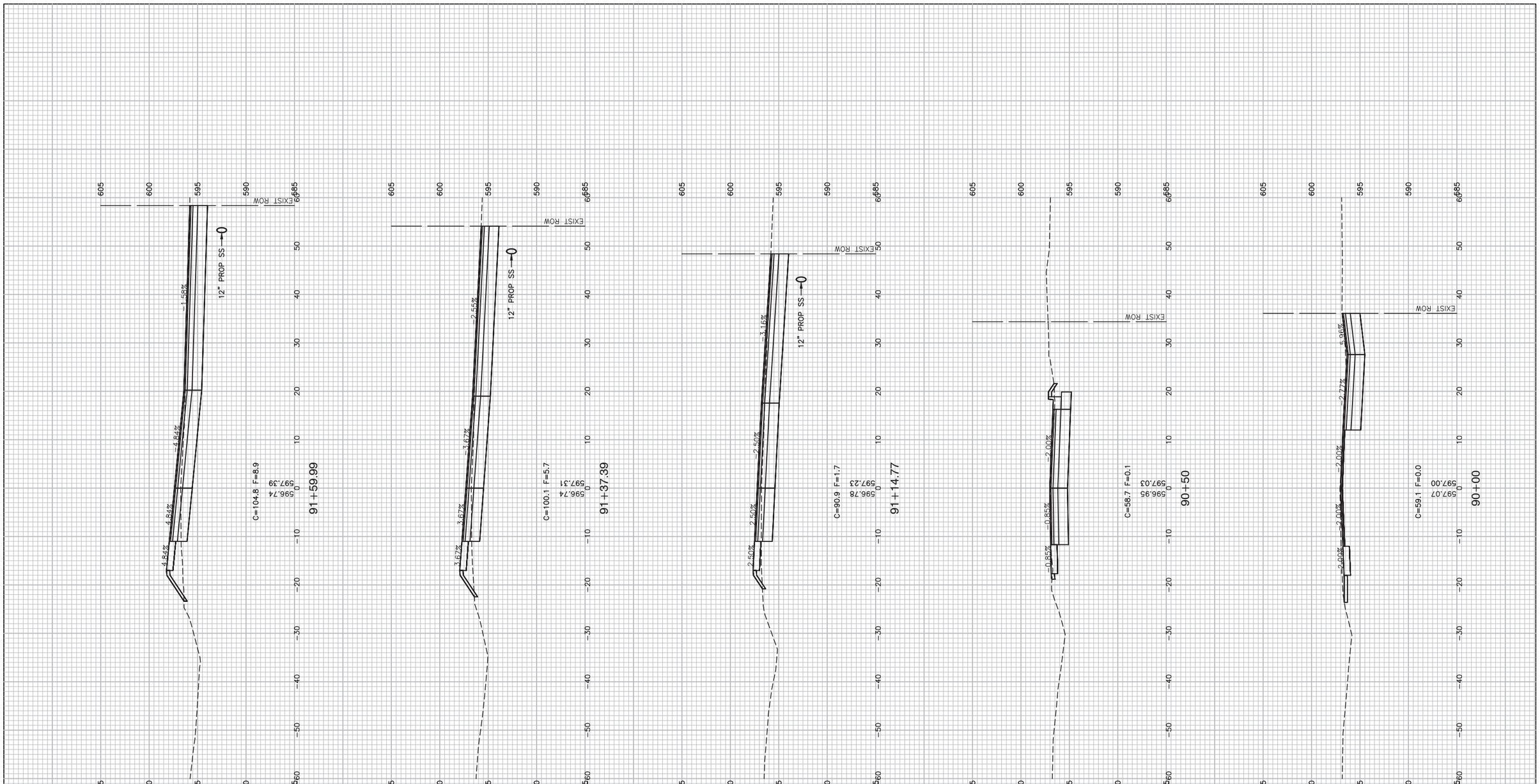
FILE NAME = 12603_02-XSEC-01 - X03	USER NAME =	DESIGNED — JPH	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — JH/RG	REVISED —
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 68 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	68
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



FILE NAME = 12603_02-XSEC-01 - X04

USER NAME =	DESIGNED — JPH	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — JH/RG	REVISED —
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

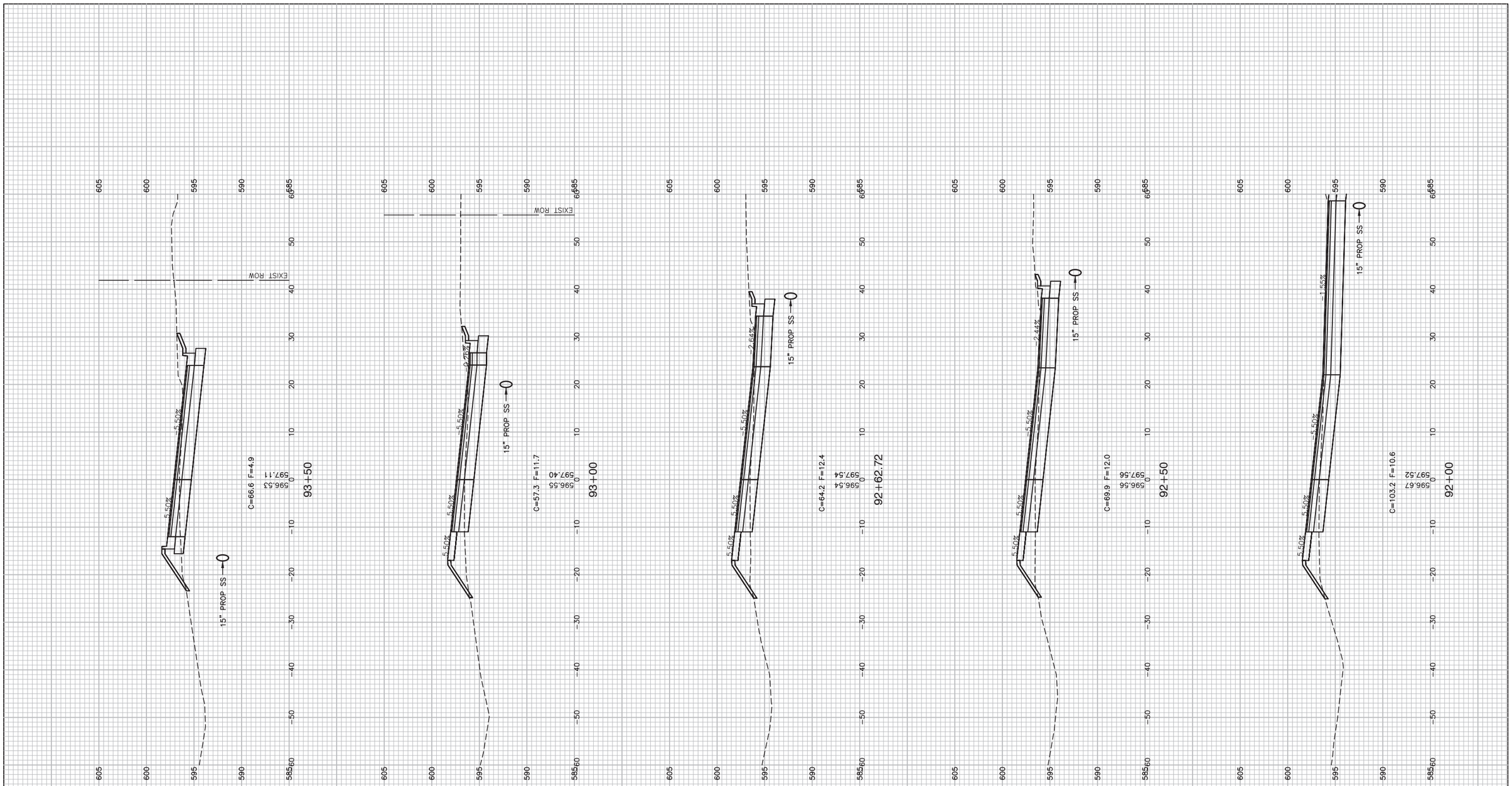
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 69 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	69
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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PLOT SCALE =	DRAWN — JH/RG	REVISED —
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

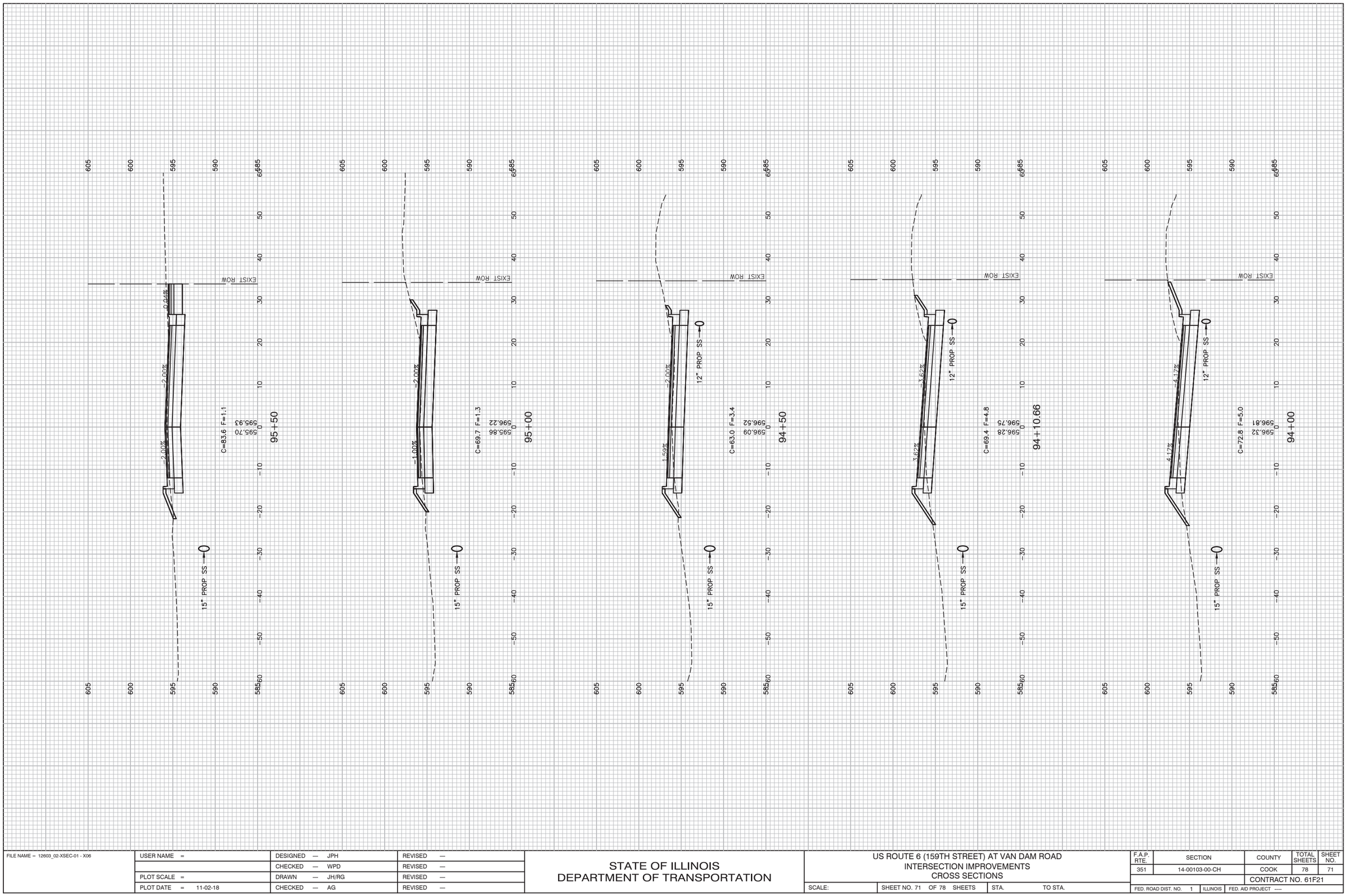
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 70 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	70
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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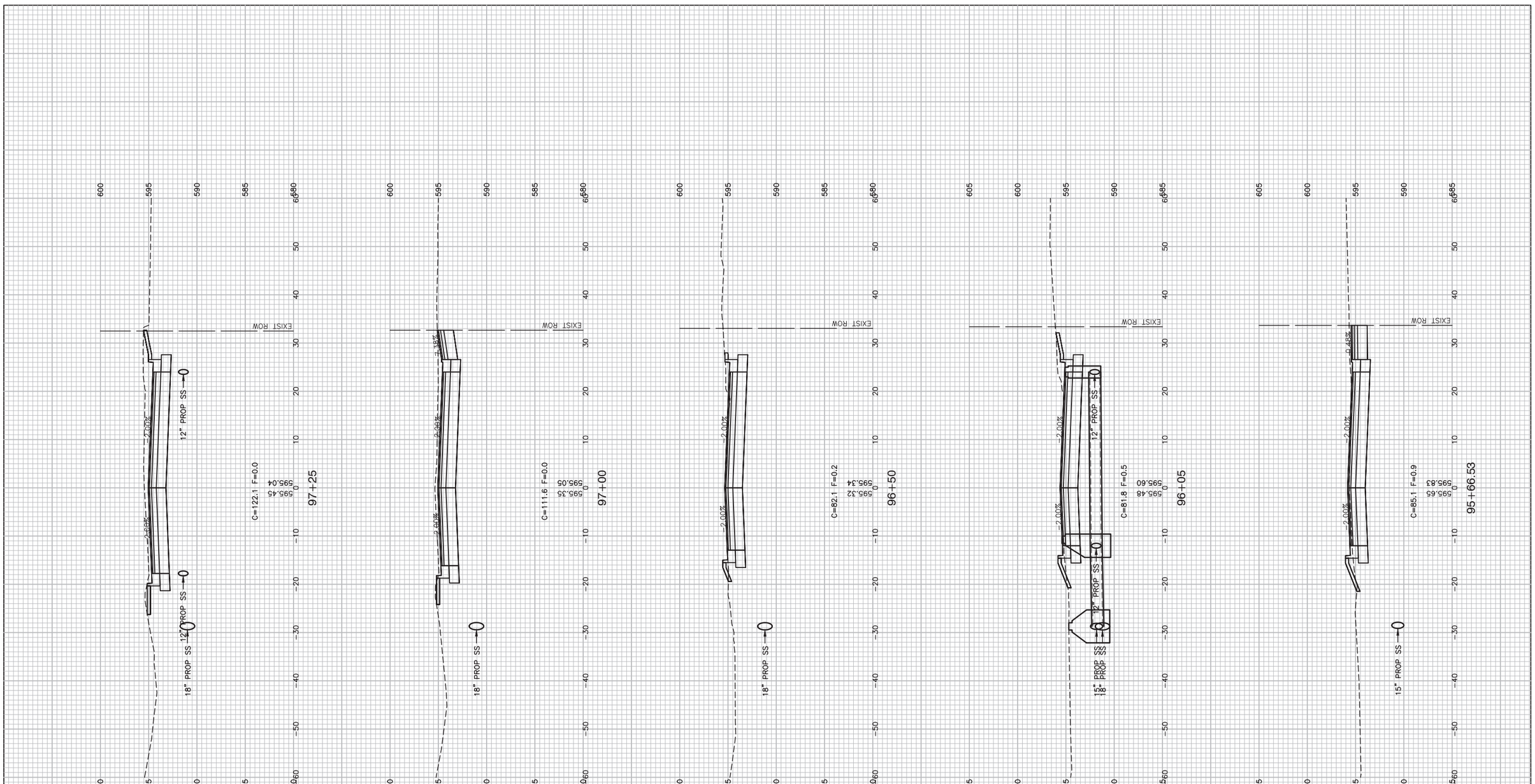
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 71 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	71
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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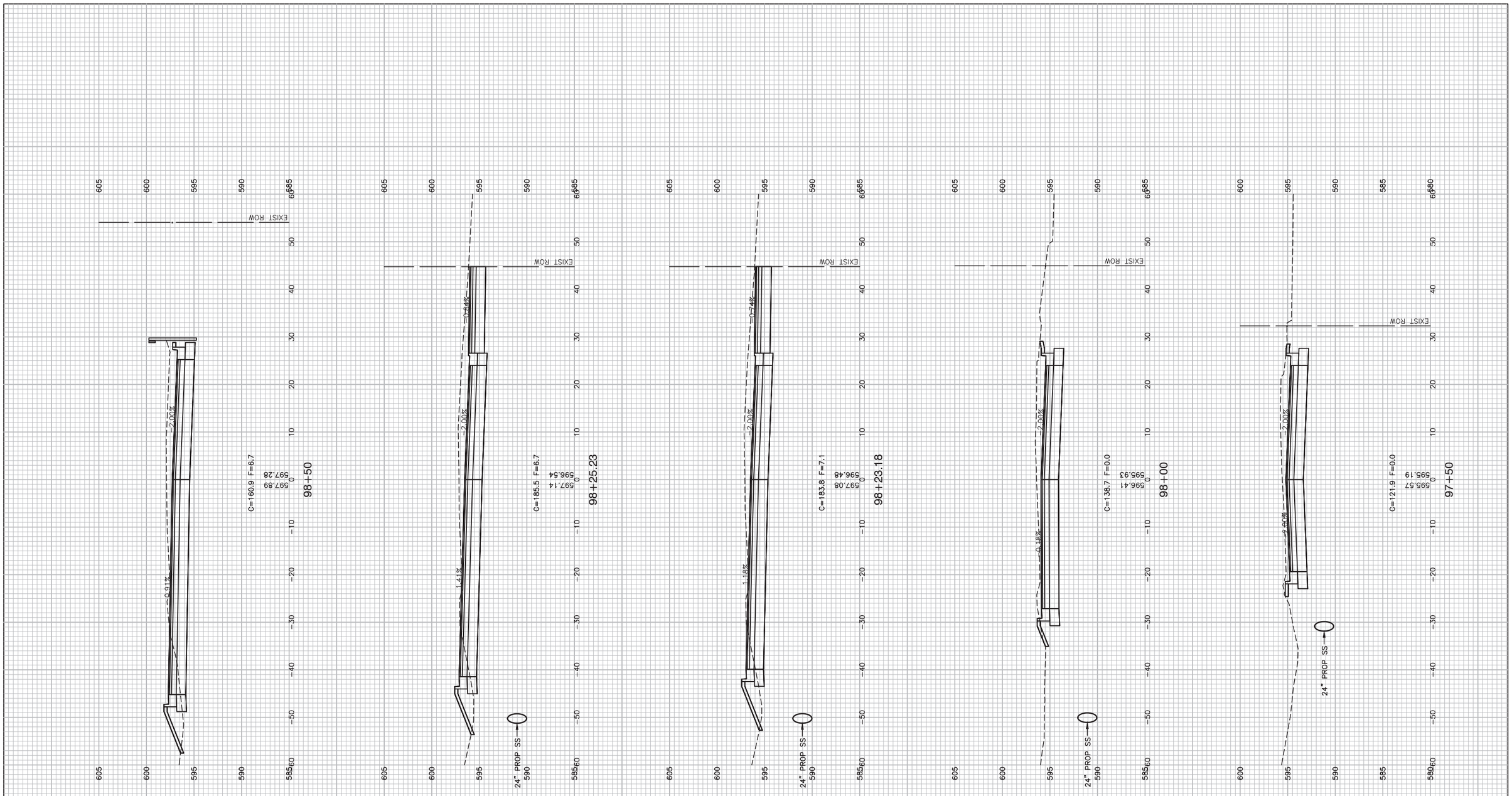
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — JH/RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: SHEET NO. 72 OF 78 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	72
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



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	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

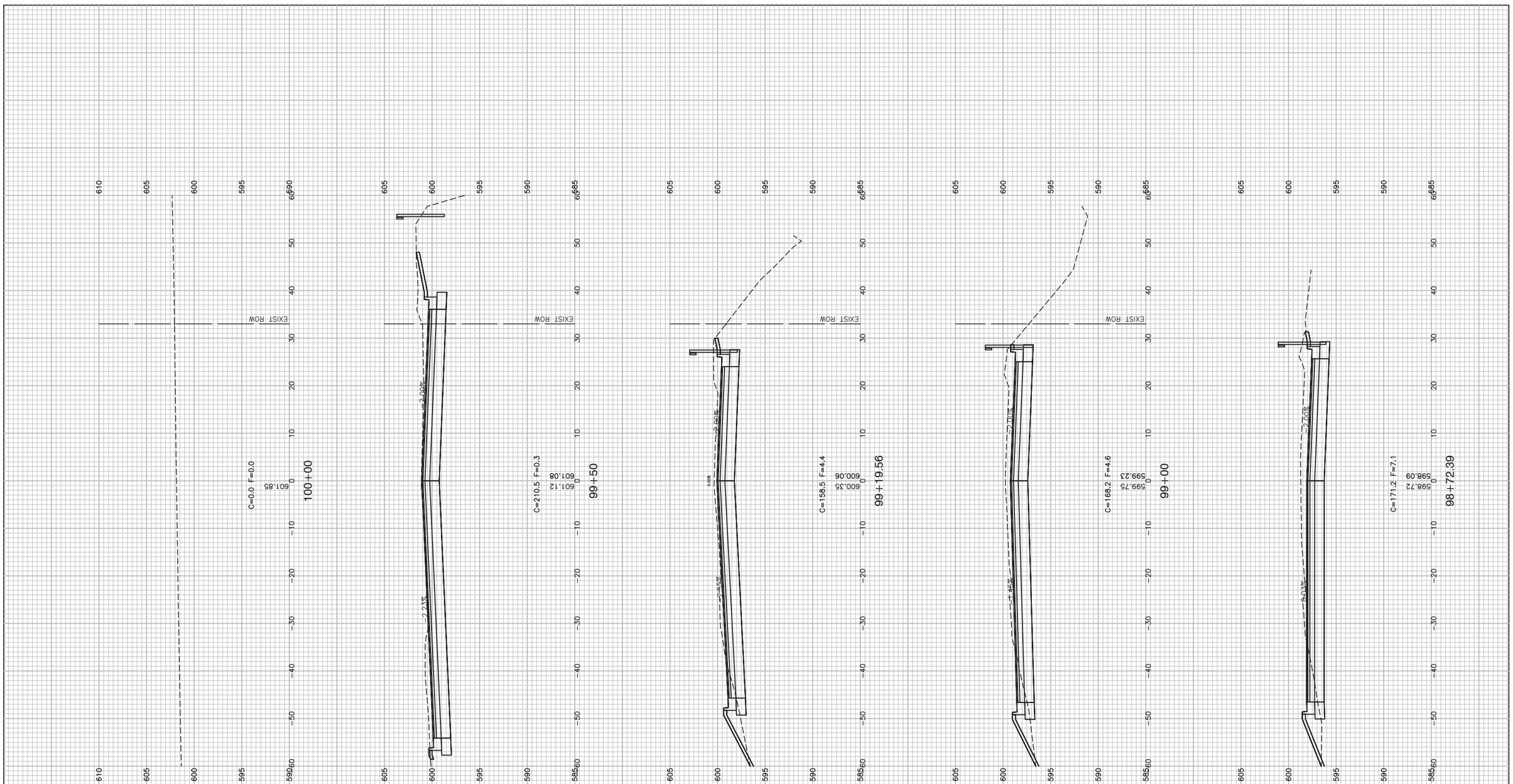
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 73 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	73
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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PLOT SCALE =	DRAWN — JH/RG	REVISED —
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

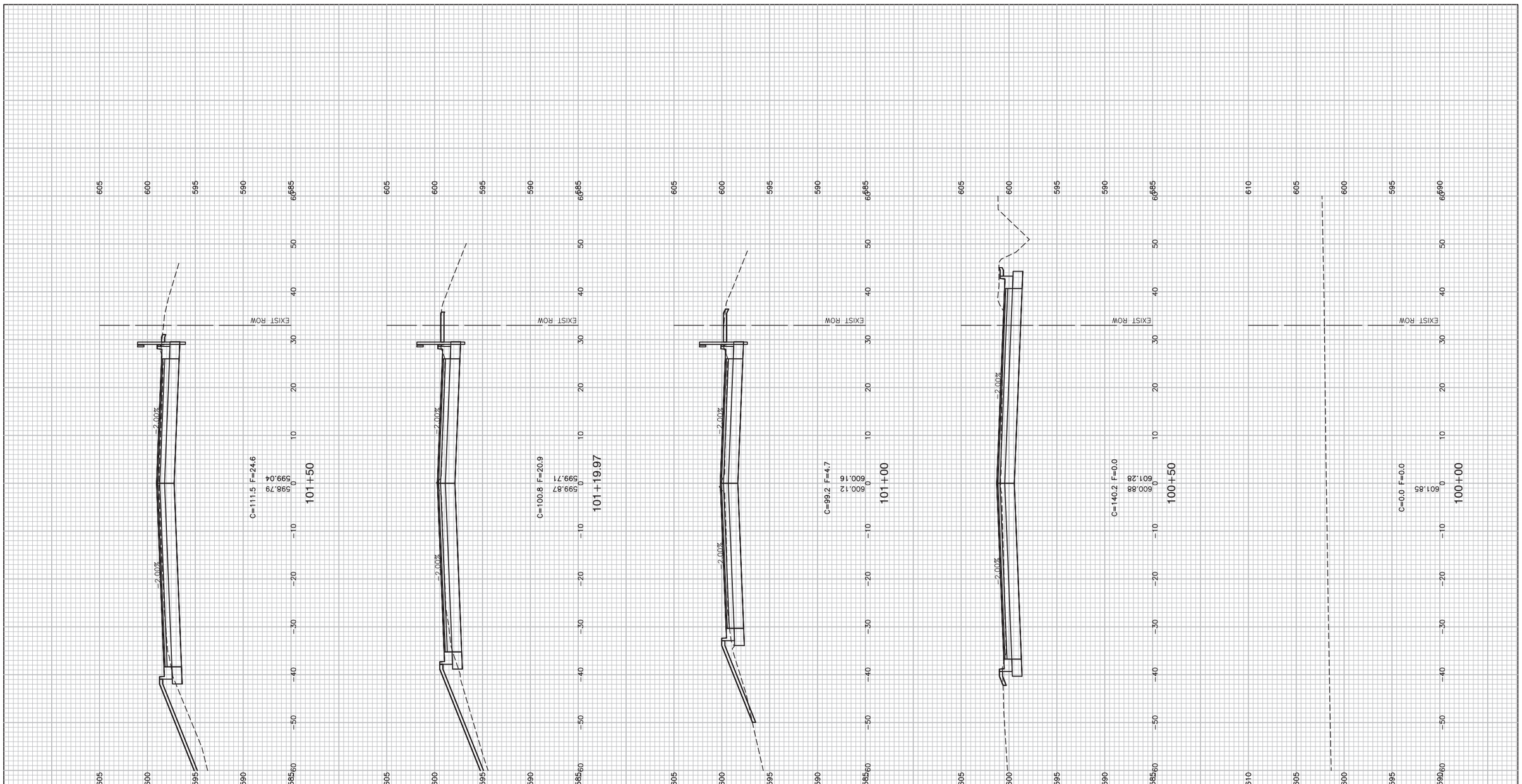
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 74 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	74
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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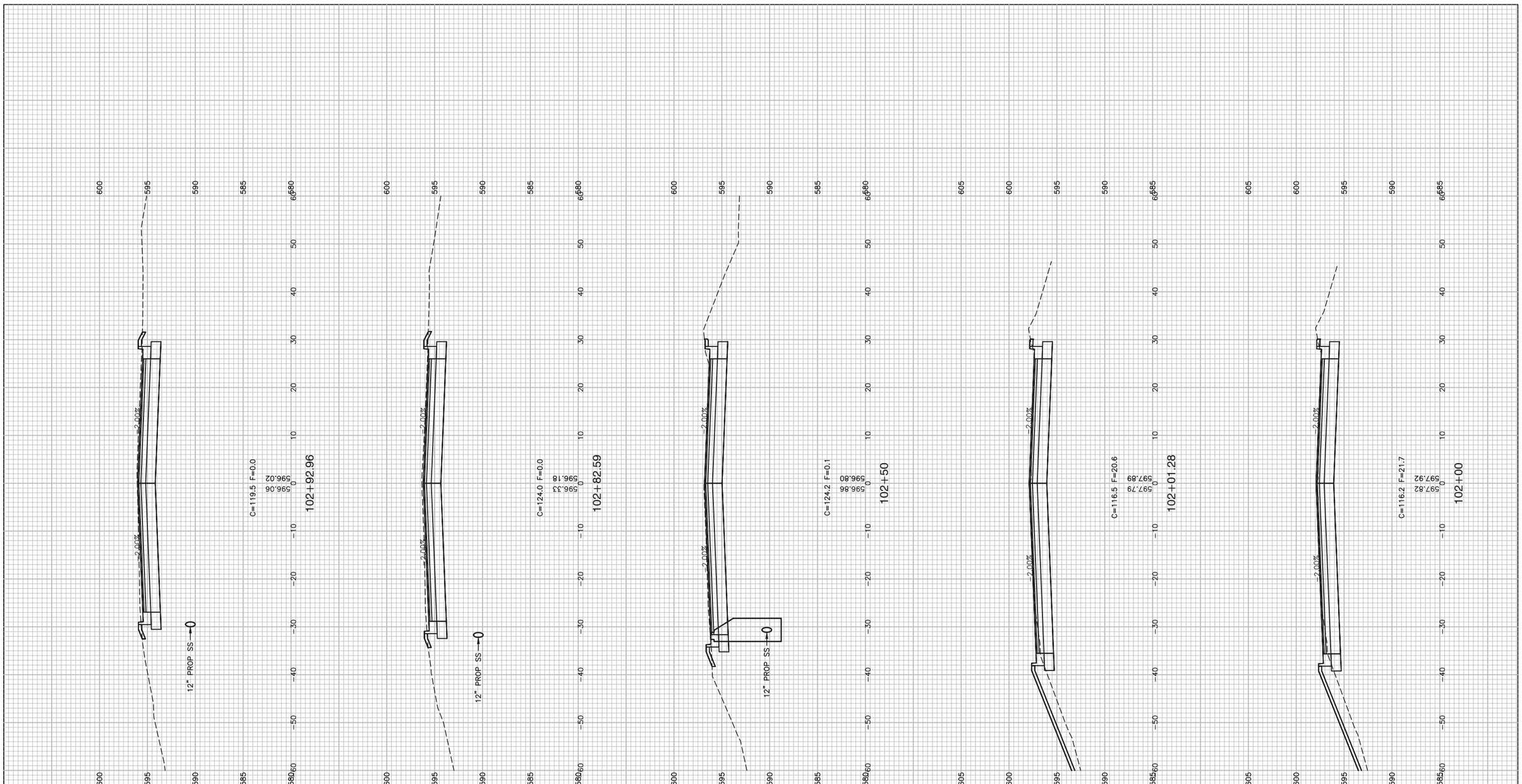
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 75 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	75
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



FILE NAME = 12603_02-XSEC-01 - X11

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PLOT SCALE =	DRAWN — JH/RG	REVISED —	
PLOT DATE = 11-02-18	CHECKED — AG	REVISED —	

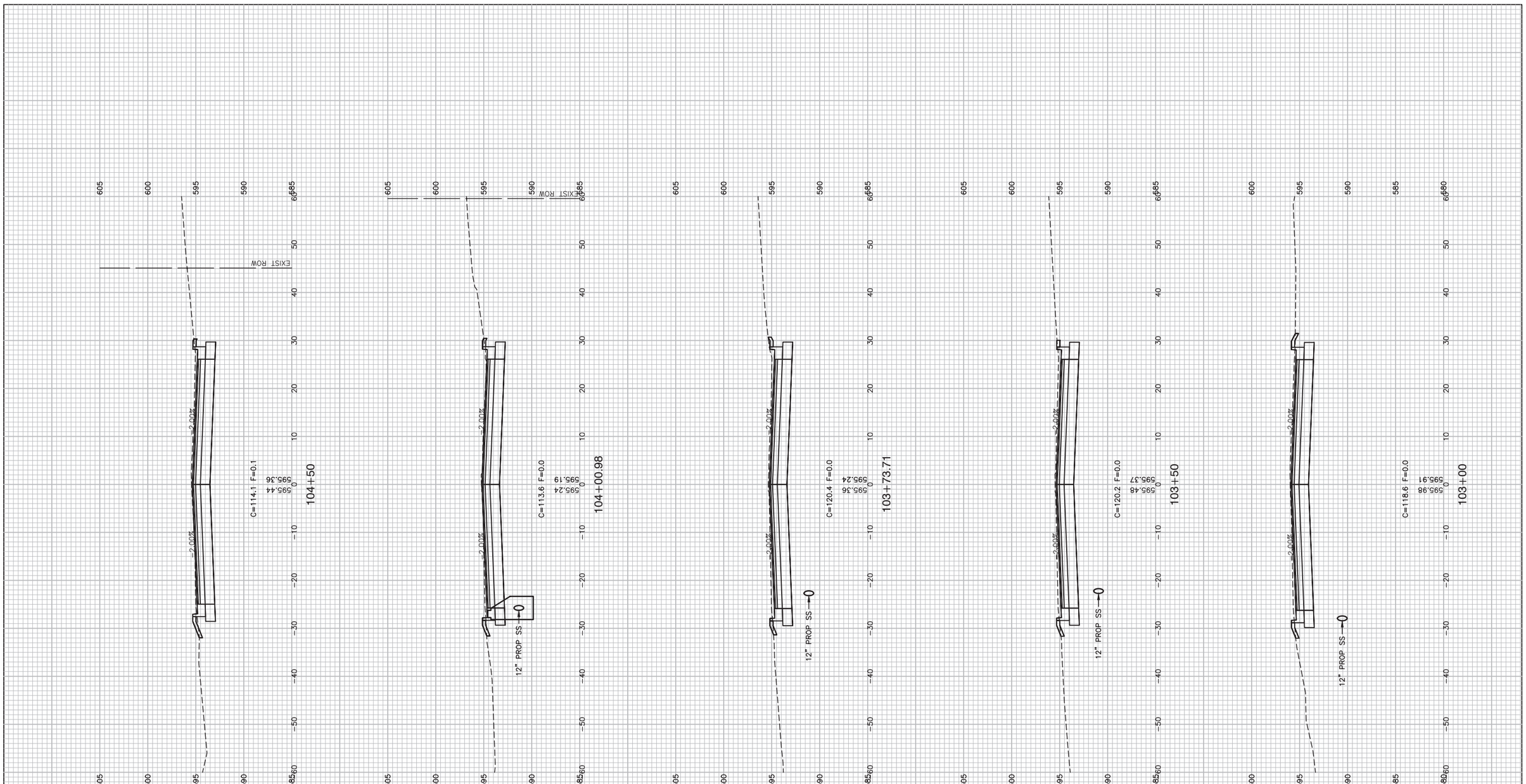
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 6 (159TH STREET) AT VAN DAM ROAD
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 76 OF 78 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	76
		CONTRACT NO. 61F21		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ----



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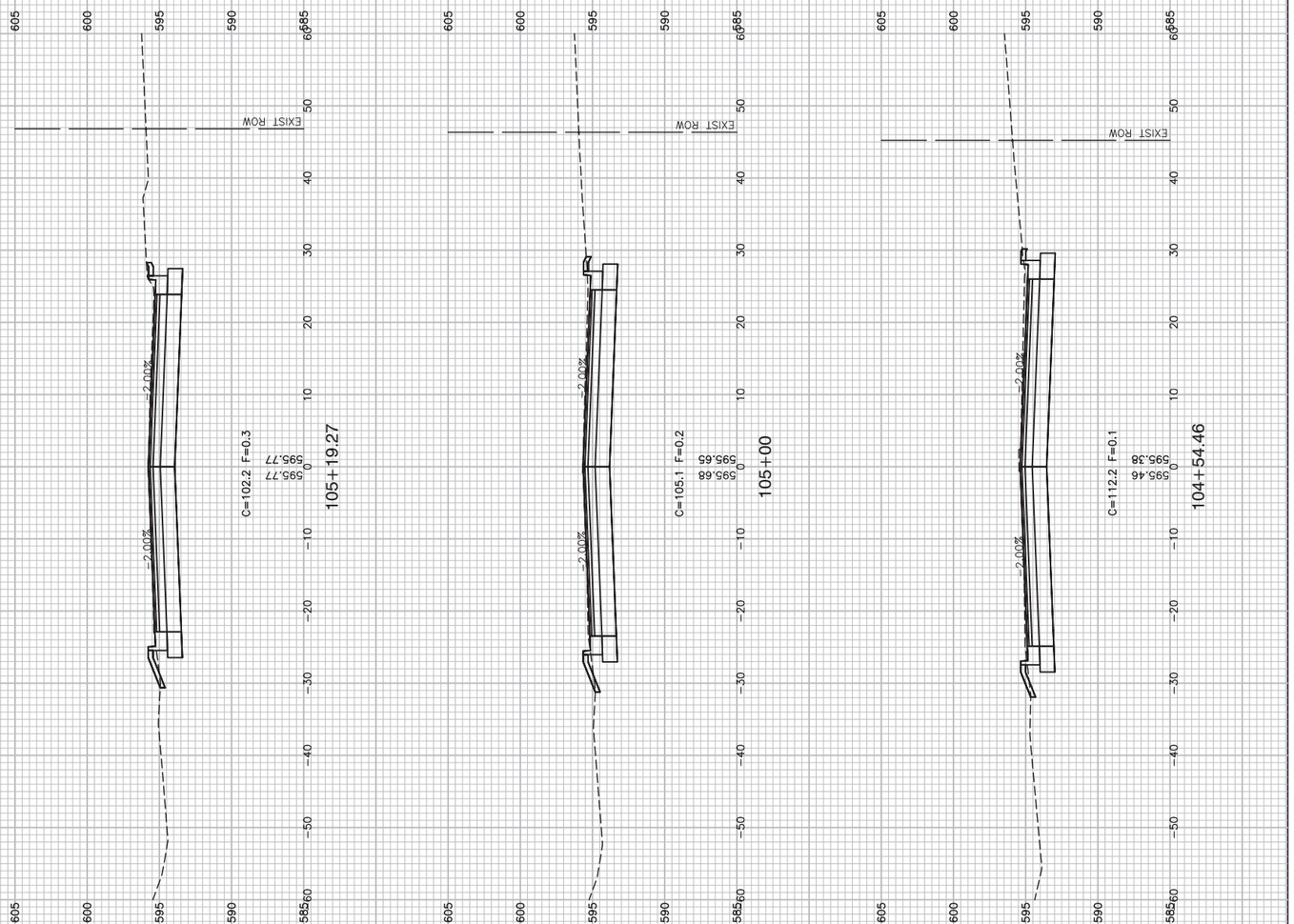
		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — JH/RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: SHEET NO. 77 OF 78 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	77
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		



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		CHECKED — WPD	REVISED —		
	PLOT SCALE =	DRAWN — JH/RG	REVISED —		
	PLOT DATE = 11-02-18	CHECKED — AG	REVISED —		SCALE: / SHEET NO. 78 OF 78 SHEETS / STA. / TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	14-00103-00-CH	COOK	78	78
		CONTRACT NO. 61F21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ----		