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HANCOCK	Civil Engineers	9933 Roc
	Municipal Consultants	Westchester, IL Phone: 7
ENGINEERING	🛓 🎽 🔶 Established 1911	www.ehc

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701301-04

701311-03

701501-06

701602-10

701606-10

701701-10

701801-06

701901-08

720001-01

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000

EXISTING	PROPOSED	DESCRIPTION	EXISTING
Ø	ø	POWER POLE	
\bigtriangleup		GAS VALVE	<
-\$>0		STREET LIGHT	<
\oslash		WATER MAIN BUFFALO BOX	
\otimes		WATER MAIN VALVE BOX	(
S		SPRINKLER	W
		WATER MAIN VALVE VAULT	——— E
	-	STORM INLET	G
R	A	FIRE HYDRANT	—T
× RW		EXISTING STRUCTURE TO BE REMOVED	
× F		EXISTING STRUCTURE TO BE FILLED	
\bigotimes		TREE TO BE REMOVED	
\bigcirc		BUSH	
\bigcirc		TREE	
		EXISTING CURB AND GUTTER TO BE REMOVED	XXX
		EARTH EXCAVATION SPECIAL	XXXX
		NON-SPECIAL WASTE DISPOSAL	XXX XXX
		EXISTING CONCRETE SIDEWALK TO BE REMOVED	XXX
		EXISTING CONCRETE DRIVEWAY TO BE REMOVED	XXX
		HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	
		PROPOSED CONCRETE PAVEMENT/SIDEWALK	
		PROPOSED HOT MIX ASPHALT PAVING	
			643.90 ×

HIGHWAY STANDARDS DRAWINGS

			CD	OPEN LID	-
E OR DESCRIPTION	STANDARD NO.	TITLE OR DESCRIPTION			
DLS, ABBREVIATIONS AND PATTERNS	720006-04	SIGN PANEL ERECTION DETAILS	INL	INLETS, TYPE A, TYPE I FRAME, OPEN LI	D
ION CONTROL SYSTEMS	720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS		MANHOLES, TYPE A, 5' DIAMETER, TYPE	I FRAME,
	720016-04	MAST ARM MOUNTED STREET NAME SIGNS	MH (SPEC)	CLOSED LID (SPECIAL)	,
DUNDOUTS	729001-01	APPLICATIONS OF TYPES A&B METAL POSTS			
CURB RAMPS FOR SIDEWALKS	780001-05	TYPICAL PAVEMENT MARKINGS			
VALL FOR PIPE UNDERDRAINS	B,L,R, 14-12	PORTLAND CEMENT CONCRETE PAVEMENT (NONREINFORCED)			
CED CONCRETE FLAT SLAB TOP	814001-03	HANDHOLES			
1 GUARDRAIL	814006-02	DOUBLE HANDHOLES			
NS, 2L, 2W, 15' (4.5M) TO 24"(600MM) FROM PAVEMENT EDGE	838001-01	BREAKAWAY DEVICES		BENCHMARKS	
PERATIONS, 2L, 2W, DAY ONLY	857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES		DENGIMARKS	
NS, MULTILANE, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE	862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)		DATUM IS NAVD 88	
L, 2W, SHORT TIME OPERATIONS	873001-02	TRAFFIC SIGNAL GROUNDING & BONDING	B.M. NO.	DESCRIPTION	ELEVATION
L, 2W, MOVING OPERATIONS-DAY ONLY	877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'	1	N.W. 'BURY' BOLT ON F.H. AT STA. 17+75	626.41
SURE, 2L, 2W, UNDIVIDED	877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS	2	N.W. BONNET BOLT ON F.H. AT STA. 14+70	626.17
SURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE	878001-10	CONCRETE FOUNDATION DETAILS	-	NORTH 'BURY' BOLT ON F.H. AT STA. 11+35	629.11
NE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN	880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION	3		
SURE, MULTILANE INTERSECTION	880006-01	TRAFFIC SIGNAL MOUNTING DETAILS	4	N.E. 'BURY' BOLT ON F.H. AT STA. 8+60	631.04
ER OR CROSSWALK CLOSURE	886001-01	DETECTOR LOOP INSTALLATIONS	5	NORTH 'BURY' BOLT ON F.H. AT STA. 5+75	629.17
_ DEVICES	886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS	6	NORTH 'BURY' BOLT ON F.H. AT STA. 2+50	627.34
NTING DETAILS			7	P.K. NAIL ON GUARDRAIL AT STA. 1+10	627.74

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LEGEND

OPOSED	DESCRIPTION
	PIPE UNDERDRAIN TYPE 2, 4"
<u> </u>	STORM SEWER TO BE REMOVED
	STORM SEWER PIPE
—<(—	COMBINATION SEWER PIPE
(SANITARY SEWER PIPE
— w ——	WATER MAIN
	ELECTRIC LINE
	GAS LINE
	TELEPHONE LINE
	CURB AND GUTTER
	GUARDRAIL TO BE REMOVED
<u> </u>	GUARDRAIL
	DIRECTION OF FLOW
-\$-	DRAINAGE SUMMIT
627.75 620.50	WATER MAIN VALVE VAULT RIM AND TOP OF PIPE ELEVATION
<u>627.75</u> 620.50	COMBINATION MANHOLE RIM AND INVERT ELEVATION
627.75 620.50	STORM SEWER MANHOLE/CATCHBASIN RIM AND INVERT ELEVATION
А	STRUCTURE TO BE ADJUSTED
1C	TYPE 1 FRAME & CLOSED LID
1P	TYPE 1 FRAME & OPEN LID
RC	RECONSTRUCT EXISTING STRUCTURE
^{32.25} ×	GROUND ELEVATIONS
CB SPEC	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE I FRAME, OPEN LID, SPECIAL
СВ	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE I FRAME, OPEN LID
INL	INLETS, TYPE A, TYPE I FRAME, OPEN LID
1H (SPEC)	MANHOLES, TYPE A, 5' DIAMETER, TYPE I FRAME, CLOSED LID (SPECIAL)

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D OF SYMBOLS		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	C L L
		3015	3015 16-00080-01-PV COOP		102	2	
		FIELD BO	DOK NO. : -	CONTRACT N	O. 61G35		ц
STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED	AID PROJECT			ц

ACCESS

THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING THE CONSTRUCTION PERIOD. DURING CONSTRUCTION, GARBAGE TRUCKS MUST BE PERMITTED ACCESS TO THE WORK ZONE TO PICK UP RESIDENTIAL AND COMMERCIAL GARBAGE FOR THOSE PROPERTIES FRONTING THE WORK ZONE. IF GARBAGE TRUCK ACCESS IS NOT PROVIDED, THE CONTRACTOR SHALL MOVE TRASH CONTAINERS TO AN ACCESSIBLE LOCATION.

UNDERGROUND UTILITIES

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR, BUT WILL BE COORDINATED BY GENERAL CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED **EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY** EXPLOSIVE. FLAMMABLE. AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS.

STORM SEWER

THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 41-1.02A THROUGH 41-1.02D OF THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".

BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED

FRAMES AND GRATES

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

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 AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE'S PUBLIC WORKS YARD, LOCATION AT 2734 SOUTH 9TH AVENUE.

FORMS FOR CONCRETE SIDEWALKS, DRIVEWAYS,

PAVEMENT, AND GUTTER FLAGS

A 2" X 6" BOARD WILL BE USED AS A FORM FOR ALL SIDEWALKS TO BE INSTALLED FIVE INCHES (5") IN THICKNESS., A 2" X 8" BOARD WILL BE USED AS A FORM FOR ALL DRIVEWAYS TO BE INSTALLED SEVEN INCHES (7") IN THICKNESS. A 2" X 10" BOARD WILL BE USED AS THE FORM FOR ALL PAVEMENTS TO BE INSTALLED EIGHT INCHES (8") IN THICKNESS. A 2" X 12" BOARD WILL BE USED AS THE FORM FOR THE FACE OF THE GUTTER FLAGS TO BE INSTALLED TEN INCHES (10") IN THICKNESS. ALL FORMS MUST BE OF A MINIMUM HEIGHT OF THE PROPOSED THICKNESS OF THE RESPECTIVE CONCRETE ITEMS TO BE INSTALLED.

OPEN EXCAVATION

LEAVING OF ANY EXCAVATION NECESSARY FOR STORM SEWERS OPEN OVERNIGHT WILL NOT BE ALLOWED ON THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETELY BACKFILLING OR PLATING OVER OF ALL EXCAVATIONS AT THE END OF EACH DAY. IF THE EXCAVATIONS ARE BACKFILLED THEY SHALL BE FILLED WITH AN AGGREGATE MEETING THE GRADATION OF CA-6. THE MATERIAL WILL BE COMPACTED SUFFICIENTLY TO PREVENT RUTTING OR SETTLEMENT OF MATERIAL UNDER TRAFFIC LOADS. IF PLATES ARE USED THEY SHALL BE OF SUFFICIENT THICKNESS TO SUPPORT VEHICULAR LOADS. ADDITIONALLY THEY SHALL EXTEND A MINIMUM OF NINE INCHES (9") BEYOND THE LIMITS OF THE EXCAVATION ON ALL SIDES. IF THE PLATES ARE TO BE LEFT OVER THE WEEKEND, THE EDGES OF THE PLATES SHALL BE CUSHIONED WITH A BITUMINOUS MIXTURE IN AREAS WHERE VEHICULAR TRAFFIC WILL CROSS THE PLATES.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM AND COMBINED SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES THAT ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. ALL ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS AS WELL AS MATERIAL EXISTING BEFORE CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR.

EXISTING STRUCTURE MODIFICATIONS

ALL KNOWN EXISTING STRUCTURES IN THE PAVEMENT OR ADJACENT AREAS THAT ARE INVOLVED IN THE CONSTRUCTION HAVE BEEN SHOWN ON THE PLANS AND NOTED TO BE REMOVED, FILLED, RECONSTRUCTED, OR ADJUSTED BY THE CONTRACTOR EXCEPT THOSE OF AT&T, COMED, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE. WHERE EXISTING STRUCTURES ARE TO BE REMOVED OR FILLED, OR THE EXISTING CASTING REPLACED, THE CASTINGS REMOVED FROM THE STRUCTURE ARE TO REMAIN THE PROPERTY OF THE VILLAGE AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE'S PUBLIC WORKS YARD.

MAINTENANCE OF EXISTING DRAINAGE STRUCTURES

ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS OR DRAINAGE STRUCTURE SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND CONCRETE PAVEMENT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE **REPAIRED BY THE CONTRACTOR.**

PROPOSED STRUCTURES

ANY CONFLICTS.

ITEMS TO BE SALVAGED

NOTIFICATION OF RESIDENTS

CONSTRUCTION.



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Municipal Consultant
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	DATE -	2-11-20	REVISED -

THE CONTRACTOR SHALL NOT ORDER PROPOSED STRUCTURES UNTIL A JULIE REQUEST HAS BEEN EXECUTED AND THE ENGINEER HAS BEEN NOTIFIED BY THE CONTRACTOR OF

WHERE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING SEWER FRAMES AND LIDS, VALVE BOXES, DOMESTIC WATER SERVICE BOXES, FIRE HYDRANTS AND OTHER CASTINGS ARE TO BE REMOVED BY THE CONTRACTOR. ADDITIONALLY, ALL EXISTING SIGNAGE SCHEDULED FOR REMOVAL WILL ALSO BE APPROPRIATED BY THE CONTRACTOR. THESE ITEMS WILL REMAIN THE PROPERTY OF THE VILLAGE, AND SHALL BE DELIVERED TO THE OWNER AT ITS PUBLIC WORKS FACILITY AT 2734 S. 9TH AVENUE, BROADVIEW, IL 60155.

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING WRITTEN NOTICE TO ALL RESIDENCES AND/OR PLACES OF BUSINESS IN THE WORK ZONE AT LEAST ONE (1) WORKING DAY PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY THAT WILL ELIMINATE ACCESS TO THEIR PROPERTY. THE WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER AND COORDINATED WITH THE VILLAGE PRIOR TO THE BEGINNING OF

TRAFFIC PROTECTION

WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, **PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS** OF THE CONTRACT THAT ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL PROJECT COMPLETION. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS.

PLUGGING EXISTING SEWERS AND DRAINS

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG NON-SHRINK/MORTAR PLUG.

UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENT

A QUANTITY OF AGGREGATE SUBGRADE IMPROVEMENT AND SUBGRADE REMOVAL HAVE BEEN PROVIDED FOR USE IF THE EXISTING SOILS ARE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH IMPROVED SUBGRADE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED AS DETERMINED BY THE ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY OF AGGREGATE SUBGRADE IMPROVEMENT WILL REMAIN UNUSED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE 3-INCH CAPPING AGGREGATE (CA-6 GRADATION) WILL NOT BE REQUIRED SINCE GRANULAR SUBBASE WILL BE PLACED ON TOP OF THE AGGREGATE SUBGRADE IMPROVEMENT.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

STORM SEWER STRUCTURES

PRE-CAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH ASTM C-478 WILL BE USED ON ALL STRUCTURES AND RECONSTRUCTED STRUCTURES. FINAL ADJUSTMENT SHALL BE MADE USING PRE-CAST ADJUSTING RINGS. A MAXIMUM OF 6" OF ADJUSTING RINGS WILL BE PERMITTED. THE WORK DESCRIBED WITHIN THE SPECIAL PROVISION FOR FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) SHALL BE PERFORMED WHEN INSTALLING A NEW STORM SEWER STRUCTURE.

MANHOLE OR VALVE VAULT COVERS

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.

BACKFILLING SEWERS UNDER ROADWAY

FOR SEWERS UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE (JETTING) AS DESCRIBED IN ARTICLE 550.07 WILL NOT BE ALLOWED.

CONCRETE BREAKERS

WHEN REMOVING PAVEMENT, CURB AND GUTTER, SHOULDER, AND/OR ANY OTHER STRUCTURES. THE USE OF ANY TYPE OF CONCRETE BREAKERS SUCH AS DROP HAMMERS, WHICH MIGHT DAMAGE UNDERGROUND PUBLIC OR PRIVATE UTILITIES. WILL NOT BE PERMITTED. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL BE PERMITTED.

NOTE

THE CONTRACTOR SHALL NOTIFY THE IDOT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

PAVEMENT MARKING DOCUMENTATION

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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A. REFERENCED SPECIFICATIONS

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
- * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- * VILLAGE OF BROADVIEW MUNICIPAL CODE;
- * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
- * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

b. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- 2. THE VILLAGE OF BROADVIEW ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

c. GENERAL NOTES

- 1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0.0 FT.
- 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED BY THE CONTRACTOR.
- 7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED ON TRENCH BACKFILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENT TO NOTIFY ALL **INSPECTION AGENCIES.**
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

d. SANITARY SEWER

- 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER. SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:



M.W.R.D.G.C. GENERAL NOTES

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE) FUSION)	ASTM D-3350	ASTM D-3261, F-2620 (HEAT
	ASTM D-3035	ASTM D-3212, F-477
(GASKETED)		
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D-3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

- 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF **DISSIMILAR PIPE MATERIALS.**
- 10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS, SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:

- a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
- b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING FLEXIBLE NON-SHEAR CONNECTORS TO HOLD IT FIRMLY IN PLACE.
- 12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED. OR THE SEWER CROSSES ABOVE THE WATERMAIN. THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATERMAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

- 14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- 15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- 17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- 18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

- e. EROSION AND SEDIMENT CONTROL
- ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- DISTURBANCE OF THE SITE.
- THE SITE AT ALL TIMES.
- 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM: SOIL DISTURBANCE.
- MEASURES.
- INVOLVING CONCRETE.

- WITHIN SEVEN (7) DAYS.
- PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- DRAINAGE AREA HAS BEEN STABILIZED.
- CONTROL BLANKET.
- PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- SITE INSPECTOR. OR MWRD.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON

a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY

b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11.DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION

16.STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE

17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED

18.IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS. STORM SEWERS. WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES, ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVISE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGED TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

20.ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS

21.ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF

22.ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN

23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

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	20700220 POROUS GRANULAR EMBANKMENT 21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION 25000400 NITROGEN FERTILIZER NUTRIENT		SUMMARY	DF QUANT	ITIES		
	PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL 100% LOCAL	kis s
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	800	800		
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	800	800		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	2,700	2,700		
	25000400	NITROGEN FERTILIZER NUTRIENT	POUNE	22	22		
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUNE	22	22		+
	25200100	SODDING	SQ YD	1,750	1,750		
	25200200	SUPPLEMENTAL WATERING	UNIT	25	25		
	28000400	PERIMETER EROSION BARRIER	FOOT	1,400	1,400		
~	28000510	INLET FILTERS	EACH	28	28		
~	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQYD	12,400	12,400		+
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	200	200		<u> </u>
~	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	410	410		
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	70	70		<u> </u>
	40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" IL 9.5, N50	TON	40	40		
~	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	80	80		ļ
~		HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 8" CIAL PROVISION HAS BEEN PROVIDED	SQ YD	2,670	2,670	•	
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PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL 100% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0042 TRAINEES 80% FEDERAL 20% LOCAL
42001000	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9"	SQ YD	10,790	10,790			
42001300	PROTECTIVE COAT	SQ YD	16,000	16,000			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	14,450	14,450			
42400800	DETECTABLE WARNINGS	SQ FT	236	236			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,760	1,760			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	5,500	5,500			
44000600	SIDEWALK REMOVAL	SQ FT	17,500	17,500	: 		
44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	1,200	1,200			
550A2350	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 21"	FOOT	649	649			
* 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	140		140		
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	145		145		
* 56103300	DUCTILE IRON WATER MAIN 12"	FOOT	1,255		1,255		
* 56104900	WATER VALVES 6"	EACH	4		4		
* 56105000	WATER VALVES 8"	EACH	3		3		
* 56105200	WATER VALVES 12"	EACH	3		3		
* 56400500		EACH	4		4		
7 BENOTES SI IANCOC NGINEERIN	PECIAL PROVISION HAS BEEN PROVIDED       PECIAL PROVISION HAS BEEN PROVIDED       Image: Second Sec	STATE O DEPARTMENT OF	F ILLINOIS TRANSPORT	SCALE: NONE	SUMMARY OF QUANTIT	FIELD BOOK	SECTION         COUNTY         TT           16-00080-01-PV         COOK         -           NO. : -         CONTRACT NO. 6         CONTRACT NO. 10           DIST. NO. 11  ILLINOIS   FED. AID PROJECT         CONTRACT NO. 10         -

		SUMMARY C	F QUANTI	TIES			
PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL 100% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0042 TRAINEES 80% FEDERAL 20% LOCAL
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	4		4		
60108204	PIPE UNDERDRAINS TYPE 2, 4"	FOOT	162	162			
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10		10		
60255500	MANHOLES TO BE ADJUSTED	EACH	13	13			
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	23	23			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3			
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	16	16			
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	47	47			
∗ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250			
63200310	GUARDRAIL REMOVAL	FOOT	250	250			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	21	21			
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3			
⊧ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1			
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	200	200			
< 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
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ANCOC NGINEERIN	K         Volt Engineers         VP33 Roservet Rood         DESIGNED -         MWV         REVISED -           G         Municipal Consultants         Vertication L. 60154726         DESIGNED -         MMV         REVISED -           G         Municipal Consultants         Vertication L. 60154726         DESIGNED -         DMM, SFB         REVISED -           Municipal Consultants         Vertication L. 60154726         DESIGNED -         JGG, MWV         REVISED -           DATE -         3-19-20         REVISED -         DATE -         3-19-20         REVISED -	STATE O DEPARTMENT OF	F ILLINOIS TRANSPORT	ATION	SUMMARY OF QUANTIT	ES	SECTION         COUNTY         TOT/ SHEE           16-00080-01-PV         COOK         102           NO. : -         CONTRACT NO. 610

7930702*       CHANGEABLE MESSAGE SIGV       CALDA       240       740       204 COLA         79308080       PAVEMENT MARKING TAPE, TYPE IV 12*       POOT       5.17.8       5.17.5       5.17.5         17309022       PAVEMENT MARKING TAPE, TYPE IV 12*       POOT       5.17.8       5.17.5       5.17.5         17309022       PAVEMENT MARKING TAPE, TYPE IV 12*       POOT       5.17.8       5.17.5       5.17.5         17309021       PAVEMENT MARKING TAPE, TYPE IV 12*       POOT       5.17.8       1.500       1.500         172000100       SIGN PANEL TYPE I       SIGN PANEL TYPE I       500 T       1.560       1.500         172000100       SIGN PANEL TYPE I       SIGN PANEL TYPE I       SIGN PANEL TYPE I       23       5.17.5         172000100       MODIFED URETHANE PAVEMENT MARINING TYPE I LETTERS AND SYMBOLS       SIGN T       4.500       4.500         17000000       MODIFED URETHANE PAVEMENT MARKING TYPE I - LINE 4*       FOOT       4.800       4.830         170000000       MODIFED URETHANE PAVEMENT MARKING TYPE I - LINE 4*       FOOT       1.700       1.700         170000000       MODIFED URETHANE PAVEMENT MARKING TYPE I - LINE 4*       FOOT       320       3240       S00         170000000       MODIFED URETHANE PAVEMENT MARKING TYPE	PIN		PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0042 TRAINEES 80% FEDERAL
POSUBBOAL         PAVEMENT MARKING TAPE, TYPE IV 4''         FOOT         5.175         Image: Post of the second seco							100% LOCAL	20% LOCAL	20% LOCAL
Image: state of the s					240	240			
N0327980         PAVEMENT MARKING REMOVAL - WATER BLASTING         SQ FI         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900         1.900 <th1.900< th=""> <th1.900< th="">         1.900<td>703</td><td>00904</td><td>PAVEMENT MARKING TAPE, TYPE IV 4"</td><td>FOOT</td><td>5,175</td><td>5,175</td><td></td><td></td><td></td></th1.900<></th1.900<>	703	00904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	5,175	5,175			
Z200100         SiGN PANEL - TYPE 1         SOLF         156         173         23           Z200100         SIGN PANEL - TYPE 1         SOLF         196         173         23           Z200100         METAL POST - TYPE A         FOOT         594         594         594	7030	00912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	160	160			
Z2900100         METAL POST - TYPE A         FOOT         594         594           7800000         MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS         SQ FT         450         450         450           78000000         MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4"         FOOT         4,830         4,830         4.830           78000000         MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4"         FOOT         4,830         4,830         4.830           78000002         MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4"         FOOT         880         880	X032	27980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,900	1,900			
278009000         MODIFIED URETHANE PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS         SQL FT         450         450         450           78009000         MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 4"         FOOT         4,830         4,830         4,830           78009004         MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 4"         FOOT         4,830         4,830         4,830           78009004         MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 6"         FOOT         4,830         4,830         4,830           78009002         MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 6"         FOOT         800         880         880         880         880         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500 <td>* 7200</td> <td>00100</td> <td>SIGN PANEL - TYPE 1</td> <td>SQ FT</td> <td>196</td> <td>173</td> <td></td> <td>23</td> <td></td>	* 7200	00100	SIGN PANEL - TYPE 1	SQ FT	196	173		23	
Result         Image: Second Modeling URETHANE PAVEMENT MARKING TYPE I - LINE 4"         FOOT         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830         4,830 <td>* 7290</td> <td>00100</td> <td>METAL POST - TYPE A</td> <td>FOOT</td> <td>594</td> <td>594</td> <td></td> <td></td> <td></td>	* 7290	00100	METAL POST - TYPE A	FOOT	594	594			
Image: Note of the set of the se	* 7800	09000	MODIFIED URETHANE PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	450	450			-
Image: Construction of the set of t	7800	09004	MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 4"	FOOT	4,830	4,830			
Image: system is system is system is system is system is system is system.         Image: system is system is system is system is system is system is system.         Image: system is system is system is system is system.         Image: system is system is system is system.         Image: system is system is system is system is system.         Image: system is system is system is system is system.         Image: system is system.         Image: system is system is system.         Image: system i	7800	09006	MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 6"	FOOT	880	880			
Image: State Stat	7800	09024	MODIFIED URETHANE PAVEMENT MARKING TYPE I - LINE 24"	FOOT	170	170			
Image: Second	8102	28200	UNDERGROUND CONDUIT, GALVANIZED STEEL. 2" DIA.	FOOT	320	240		80	
Image: Second provision has been provided     Image: Second provided     Image: Second provided     Image: Second provided     Image: Second provided	8102	28220	UNDERGROUND CONDUIT, GALVANIZED STEEL. 3" DIA.	FOOT	120			120	
Image: Street and the set of the set o	8102	28240	UNDERGROUND CONDUIT, GALVANIZED STEEL. 4" DIA.	FOOT	366			366	
CROMENTER SPECIAL PROVISION HAS BEEN PROVIDED      DENOTES SPECIAL TY ITEM	: 8140	00100	HANDHOLE	EACH	1			1	
	< 8140	00300	DOUBLE HANDHOLE	EACH	1			1	
ANCOCK 0 0 0 0 CMI Engineers and 0 0 CMI Engineers and 0 CMI Engin					C 88 8 8880-10		· .	MUN RTE	SECTION         COUNTY         TO' SHE           16-00080-01-PV         COOK         11

TYPE CODE TYPE CODE			2010/2014				
	PIN	PAY ITEM DESCRIPTION	UNIT	1	TYPE CODE RECONSTRUCTION 0004 80% FEDERAL	RECONSTRUCTION 0004 0% FEDERAL	
	* 81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYE	THYLENE FOOT	2,800	2,800		
	* 83006500	LIGHT POLE ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	16	16		
	* 83600352	LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	16	16		
, ,	* 83800505	BREAKAWAY DEVICE COUPLING ALUMINUM SKIRT	EACH	64	64		i
	* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20	20		
	* 84200804	REMOVAL OF POLE FOUNDATION	EACH	20	20		
~ ~	6 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			
×	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,785			
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,251			
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,391			
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	831			
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,854			
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,220			
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	55			
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	605			
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3			
<u> </u>	- DENOTES SPE - DENOTES SPE	L CIAL PROVISION HAS BEEN PROVIDED CIALTY ITEM		<u> </u>	<u>,</u>		
H/ EN	*****	Image: Weight of the end of the	STATE O DEPARTMENT OF	F ILLINOIS TRANSPORT		SUMMARY OF QUANTITI SHEET NO. 5 OF 10 SHEETS   STA.	E

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5 3015	SECTION 16-00080-01-PV	COUNTY TOTAL	SHEET NO. 9 S
Protection of the second se	16-0080-01-PV OOK NO. : -	COOK 102 CONTRACT NO. 51G3	9

PIN	PAY ITEM DESCRIPTION	R 10. 15****	TOTAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL	0042 TRAINEES 80% FEDERAL
× 87700170		UNIT	QUANTITY	20% LOCAL	100% LOCAL	20% LOCAL	20% LOCAL
<u>× 87700170</u>	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1			1	
* 87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1			1	
* 87702490	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 40 FT.	EACH	1			1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16			16	
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10			10	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	25			25	
* 87900200	DRILL EXISTING HANDHOLE	EACH	7			7	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4			4	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4			4	
≿ 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6			6	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8			8	······································
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10			10	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8			8	
< 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1			1	
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1			1	
	CIAL PROVISION HAS BEEN PROVIDED CIALTY ITEM DESIGNED - MWV REVISED -	ļ				, I Mini	
ANCOCI IGINEERING	CMI Engineers     Municipal Consultants     Methods (1911     Municipal Consultants     Municipal Consultants     Municipal Consultants     Methods (1911     Municipal Consultants     Municipal Consultants     Municipal Consultants     Methods (1911     Municipal Consultants     Municip		F ILLINOIS TRANSPORTA		SUMMARY OF QUANTITI	ES 3015	SECTION         COUNTY         TO SHI           16-00080-01-PV         COOK         1

,			DM CONDUIT       FOOT       3,570				
	PIN	PAY ITEM DESCRIPTION	UNIT		TYPE CODE RECONSTRUCTION 0004 80% FEDERAL	TYPE CODE RECONSTRUCTION 0004 0% FEDERAL	
~ >	89502210	MODIFY EXISTING CONTROLLER CABINET		1			+
, ;	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,570			
~	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			
*	89502380	REMOVE EXISTING HANDHOLE	EACH	2			<u> </u>
k	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7			<u></u>
~	X0322719	TEMPORARY DRAINAGE CONNECTION	EACH	3	3		<u> </u>
~ *	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	98			ļ
k .	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,118			
~	X0325143	FILLING EXISTING VAULT	EACH	6	6		
~	X0325607	GROUND STABILIZATION GEOSYNTHETIC	SQ YD	12,400	12,400		
*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1			
~ *	X0327203	CASING PIPE, OPEN CUT, 24" STEEL	FOOT	100		100	
~ *	XX009373	CASING PIPE, OPEN CUT, 16" STEEL	FOOT	60		60	 
~ *	XX009372	CASING PIPE, OPEN CUT, 12" STEEL	FOOT	18		18	
~ *	X0327369	SANITARY SEWER, DUCTILE IRON, 10"	FOOT	32	32		
~ *	XX009296	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE B	EACH	16	16		
	DENOTES SPE     DENOTES SPE	CIAL PROVISION HAS BEEN PROVIDED CIALTY ITEM	······································	]			
H/ EN	<b>NCOC</b>	Image         CMI Engineers         933 Roosevell Rood Wetchaster, L. 4015/-2780         DESIGNED -         MWV         REVISED -           Municipal Consultants         Municipal Consultants         Prome: 76845000 Wetchaster, L. 4015/-2780         DRAWN -         DMM, SFB         REVISED -           Babelished 1911         Wetchaster, L. 4015/-2780         Prome: 76845000         CHECKED -         JGG, MWV         REVISED -           DATE -         3-19-20         REVISED -         DATE -         3-19-20         REVISED -	STATE ( DEPARTMENT OI	F ILLINOIS		SUMMARY OF QUANTIT	IES

TO STA.		DIST. NO. 1 ILLINOIS   I	ED, AID PROJECT		
6	3015 FIELD BOOK	16-00080-01-PV	COOK	102	11
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++	PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL 100% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0042 TRAINEES 80% FEDERAL 20% LOCAL
*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1			1	
*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1			1	
	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	8,600	8,600			
	X2080250	TRENCH BACKFILL, SPECIAL	CU YD	2,200	980	1,220		; 
-	X2110104	TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)	SQ YD	1,750	1,750			
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	400	400			
	×4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	28	28			
	4023000	TEMPORARY ACCESS (ROAD)	EACH	5	5			
	<5510100	STORM SEWER REMOVAL	FOOT	1,220	1,220			
*	(5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	7,500	· ·	7,500		
*	(5620040	WATER SERVICE CONNECTION, 2"	EACH	1		1		
* )	(5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	4		4		
*	(5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	4		4		
* 2	(5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	1		1		
	(6022805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	27	27			
	(6023700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSEDLID, SPECIAL	EACH	7	7			
	DENOTES SPE	CIAL PROVISION HAS BEEN PROVIDED CIALTY ITEM DESIGNED - MWV REVISED -						
<b>IA</b> NG	NCOCH	American Structure         System         System         Difference         System         Difference         Difference<	STATE OI	F ILLINOIS TRANSPORT		SUMMARY OF QUANTITI	FIELD BOOK	SECTION         COUNTY         TO SHI           18-49089-01-PV         COOK         1           10: : -         CONTRACT NO. 6           NST, NO. 1         ILLINOIS   FED. AID PROJECT

	PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL 100% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0021 TRAFFIC SIGNALS 80% FEDERAL 20% LOCAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0042 TRAINEES 80% FEDERAL 20% LOCAL
*	X6026055	SANITARY MANHOLE, SPECIAL	EACH	2	2			
	X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	5,500	5,500			
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
	X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	12	12			
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,785		1,785		
*	X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4			4	
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	30	30			
	20019600	DUST CONTROL WATERING	UNIT	75	75			
	20023200	FILLING DRAINAGE STRUCTURES	EACH	1	1			
	20030850	TEMPORARY INFORMATION SIGNING	SQ FT	206	206			
*	20033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8	8			
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1	
	Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	816	816			
	Z0056652	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 18"	FOOT	40	40			
*	Z0058300	SANITARY SEWER, TYPE 1, 8"	FOOT	258	258			
*	Z0059500	SANITARY SEWER, TYPE 2, 6"	FOOT	40	40			
]	~ DENOTES SPE	CIAL PROVISION HAS BEEN PROVIDED						
	NCOCK		STATE O	F ILLINOIS TRANSPORT	ATION SCALE: NONE	SUMMARY OF QUANTITI	FIELD BOOK N	SECTION         COUNTY         TOT SHEI           16-00080-01-PV         COOK         10           10.: -         CONTRACT NO. 61         CONTRACT NO. 61           15T. NO. 1         ILLINOIS         FED. AID PROJECT

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r			SUMMARY C	FQUANTI	ITIES		
	PIN	PAY ITEM DESCRIPTION	UNIT	TOTAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 80% FEDERAL	CONSTRUCTION TYPE CODE RECONSTRUCTION 0004 0% FEDERAL	
~	Z0062000	SAW CUTTING		QUANTITY	20% LOCAL	100% LOCAL	
			FOOT	2,700	2,700		
~	Z0062456	TEMPORARY PAVEMENT	SQ YD	2,600	2,600		
2	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			
2	20076600	TRAINEES	HOUR	500			
~	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			
~	* XX000836	PRESSURE TESTING AND DISINFECTION	L SUM	1		1	
~ *	× XX006227	RESTRAINED JOINT 8"	EACH	40		40	
~ *	XX006228	RESTRAINED JOINT 6"	EACH	30		30	
~ *	XX008914	RESTRAINED JOINT 12"	EACH	40		40	
~ *	XX006834	ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM	EACH	5	5		

DENOTES SPECIAL PROVISION HAS BEEN PROVIDED
 DENOTES SPECIALTY ITEM

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the second	LIANICOCI/ 58 + CM Engineers	9933 Rockeyst Road	DESIGNED -	MWV	REVISED -				
		Westchester, L. 60154-2780		DMM, SFB	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES		
	ENGINEERING		CHECKED -	JGG, MWV	REVISED -	DEPARTMENT OF TRANSPORTATION			
*		www.shancock.com	DATE -	3-19-20	REVISED -	na man na ran na ranana na mara na 5072-556.600 ata 1261 1261 1269 136	SCALE: NONE SHEET NO. 10 OF 10 SHEETS STA.		

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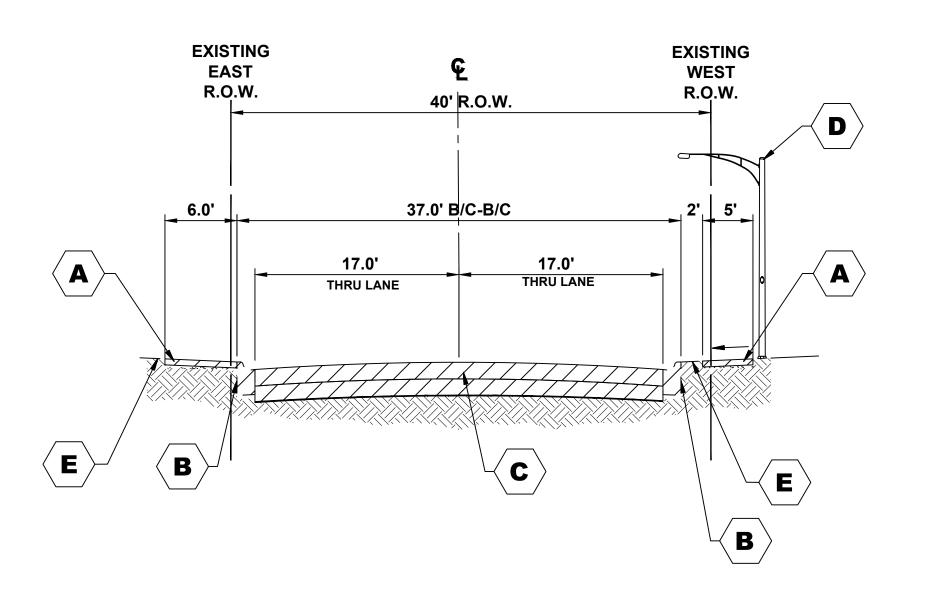
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CONSTRUCTION	CONSTRUCTION
TYPE CODE	TYPE CODE
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0021	0042
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	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3015	16-00080-01-PV	COOK	102	14
	FIELD B	OOK NO. : -	CONTRACT NO. 61G35		
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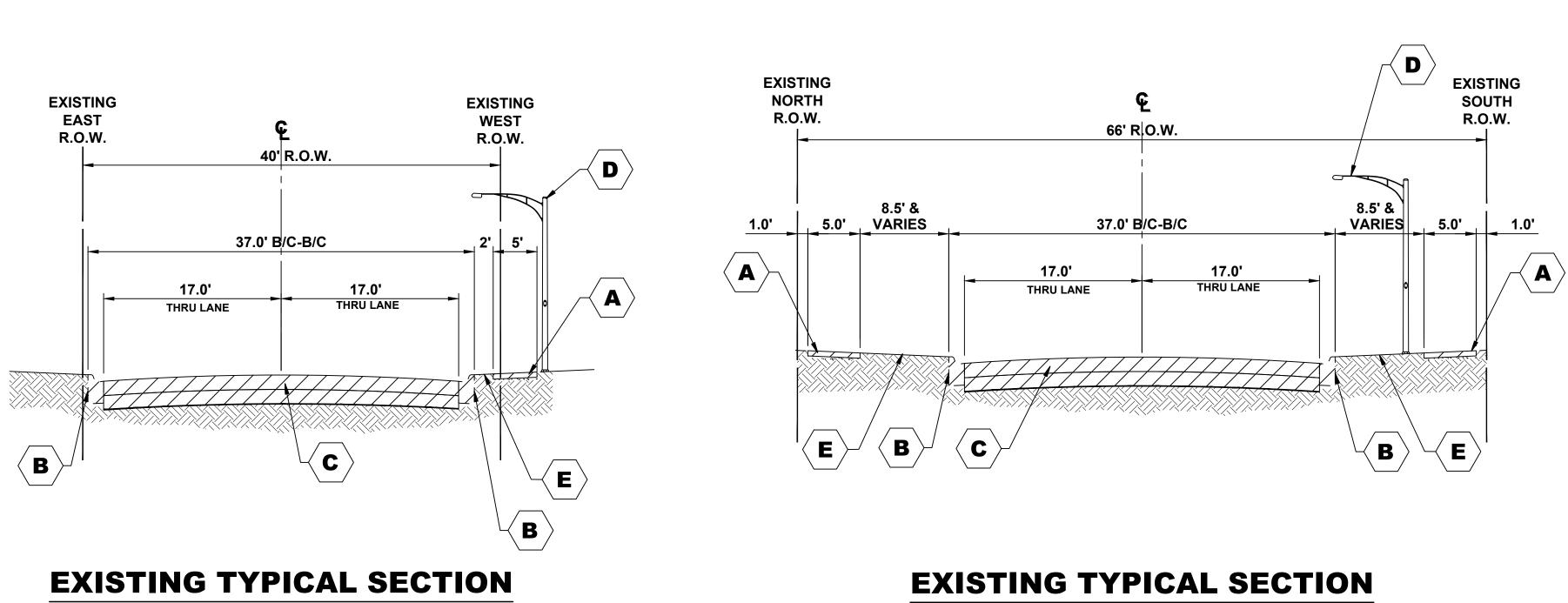
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# **EXISTING TYPICAL SECTION**

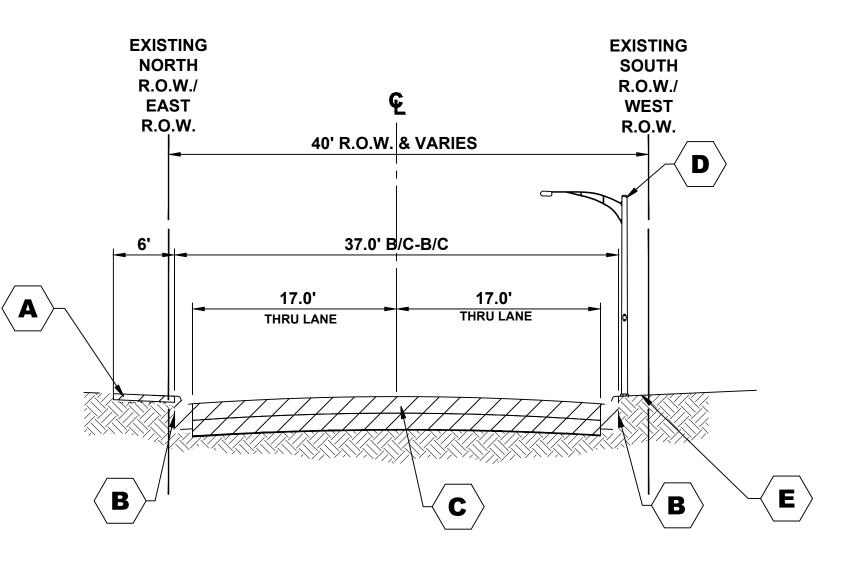
**21ST AVENUE** (STA. 17+45 TO 21+20) (STA. 27+75 TO 29+67)



**21ST AVENUE** (STA. 21+20 TO 27+75)



9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
Vestchester, IL, 60154-2780	DRAWN -	DMM, SFB	REVISED -
Phone: 708-865-0300	CHECKED -	JGG, MWV	REVISED -
www.ehancock.com	DATE -	3-25-20	<b>REVISED</b> -



# **EXISTING TYPICAL SECTION 21ST AVENUE**

(STA. 29+67 TO 32+00)

# **19TH STREET**

(STA. 32+00 TO 43+30)

### M

### HOT-MIX ASPHALT SU

### **INCIDENTAL HOT-MIX**

### **TEMPORARY PAVEME**

## 21ST AVENUE / 19TH

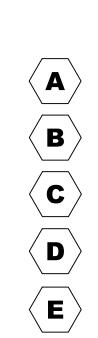
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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

	PAVEMENT CORE SUMMARY									
BORE	STREET	STATION	LANE	BITUMINOUS	STONE BASE					
B-6	21ST AVE.	17+80, 35'LT	NORTHBOUND LANE	5.25"	10.75"					
B-7	21ST AVE.	21+50, 15'RT	SOUTHBOUND LANE	5"	9"					
B-8	21ST AVE.	24+20, 8'LT	NORTHBOUND LANE	5.25"	10.75"					
B-9	21ST AVE.	27+30, 11'RT	SOUTHBOUND LANE	6"	10"					
B-10	21ST AVE.	29+40, 14'LT	NORTHBOUND LANE	5.75"	10.75"					
B-11	19TH ST.	32+90, 11'RT	EASTBOUND LANE	6"	9"					
B-12	19TH ST.	35+90, 14'LT	WESTBOUND LANE	4"	10"					
B-13	19TH ST.	39+10, 10'RT	EASTBOUND LANE	5.5"	9.5"					
B-14	19TH ST.	41+70, 14'LT	WESTBOUND LANE	4"	11"					

### NOTES:

THESE CORES REFLECT ONLY THE INFORMATION FOUND AT LOCATIONS LISTED. THEY DO NOT REFLECT ANY VARIATIONS WHICH MAY OCCUR BETWEEN THESE BORINGS.



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

### **TYPICAL SECT**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS

# **HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

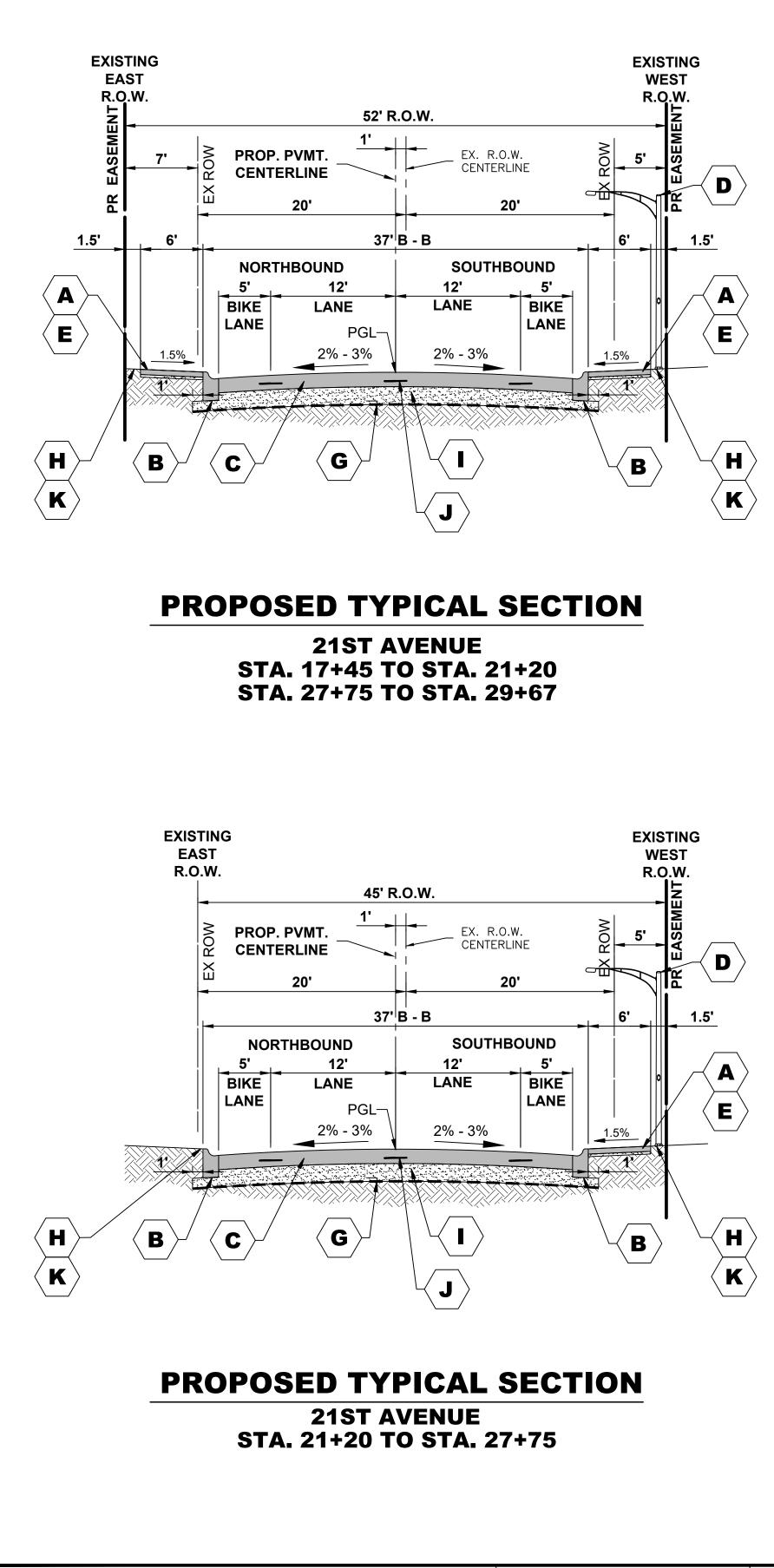
MIXTURE TYPE	AIR VOIDS @ Ndes					
HOT-MIX ASPHALT SURFACING - BUTT JOINT						
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL 9.5mm)	4% @ 50 Gyr.					
INCIDENTAL HOT-MIX ASPHALT SURFACING - HMA PARKWAYS						
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3" (2 LIFTS) (IL 9.5mm)	4% @ 50 Gyr.					
TEMPORARY PAVEMENT						
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 Gyr.					
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" (IL 9.5mm)	4% @ 50 Gyr.					
21ST AVENUE / 19TH STREET						
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" (IL 9.5mm)	4% @ 50 Gyr.					
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2.5"	4% @ 50 Gyr.					

# **TYPICAL SECTION LEGEND** EXISTING

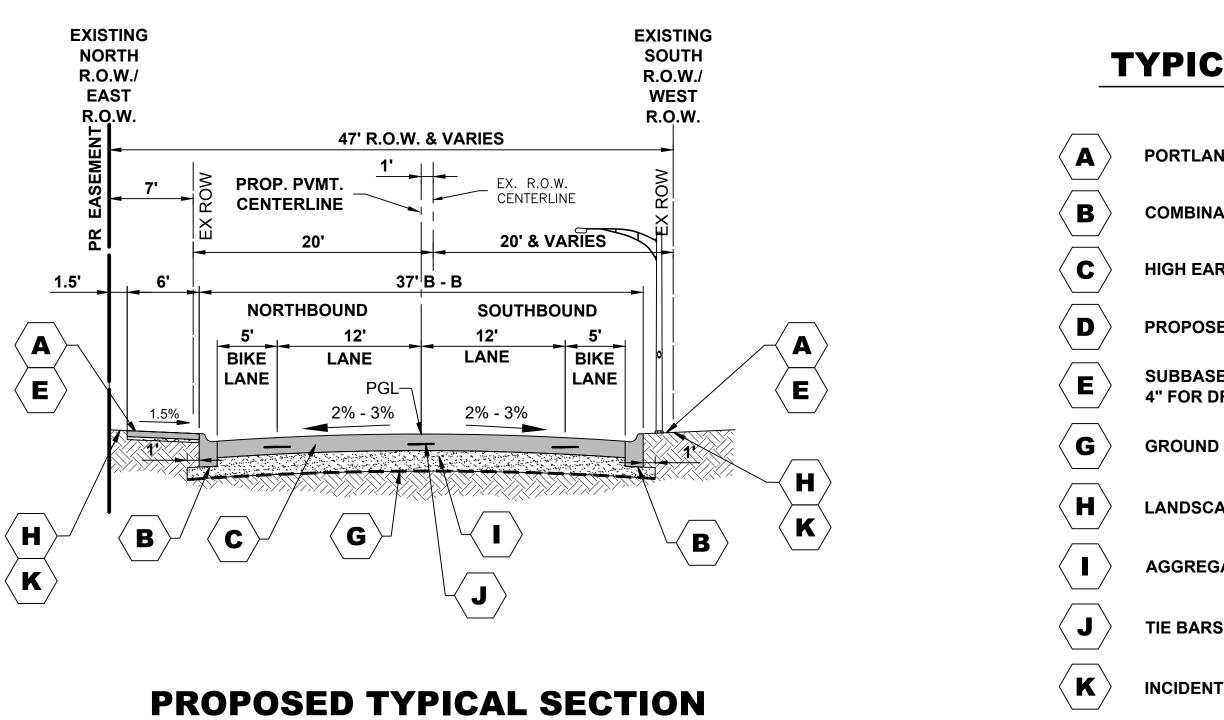
- PORTLAND CEMENT CONCRETE SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- EXISTING PAVEMENT
- EXISTING STREET LIGHT TO BE REMOVED
- LANDSCAPED PARKWAY

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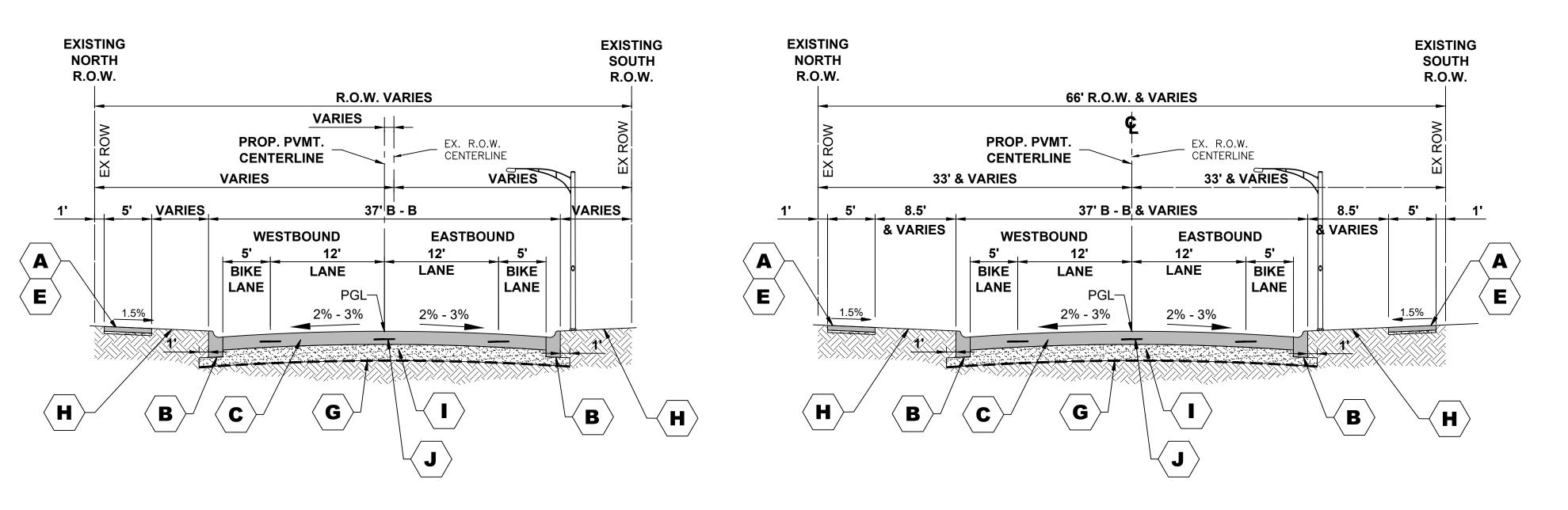
									1 H
IONS		MUN RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	C H C
		3015	16-00080	0-01-PV		COOK	102	15	
		FIELD B	00K NO. : -			CONTRACT N	O. 61G35		ш
STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED.	AID PROJECT			



**DESIGNED** -MWV **REVISED** -HANCOCK 9933 Roosevelt | Civil Engineers DMM, SFB **REVISED** -DRAWN Municipal Consultants Phone: 708-865-0300 CHECKED -JGG, MWV **REVISED** -**JGINEERING** Established 1911 www.ehancock.coi DATE -2-11-20 **REVISED** -



**21ST AVENUE STA. 29+67 TO STA. 31+86** 



# **PROPOSED TYPICAL SECTION**

**21ST AVENUE, 19TH STREET** STA. 31+86 TO STA. 32+28

STATE OF ILLINOIS		TYPICAL SECTI
DEPARTMENT OF TRANSPORTATION		
	SCALE: NONE	SHEET NO. 2 OF 2 SHEETS

## **TYPICAL SECTION LEGEND** PROPOSED

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT, 9"

PROPOSED LIGHT POLE

SUBBASE GRANULAR MATERIAL, TYPE B, 2" FOR SIDEWALKS, **4" FOR DRIVEWAYS** 

**GROUND STABILIZATION GEOSYNTHETIC** 

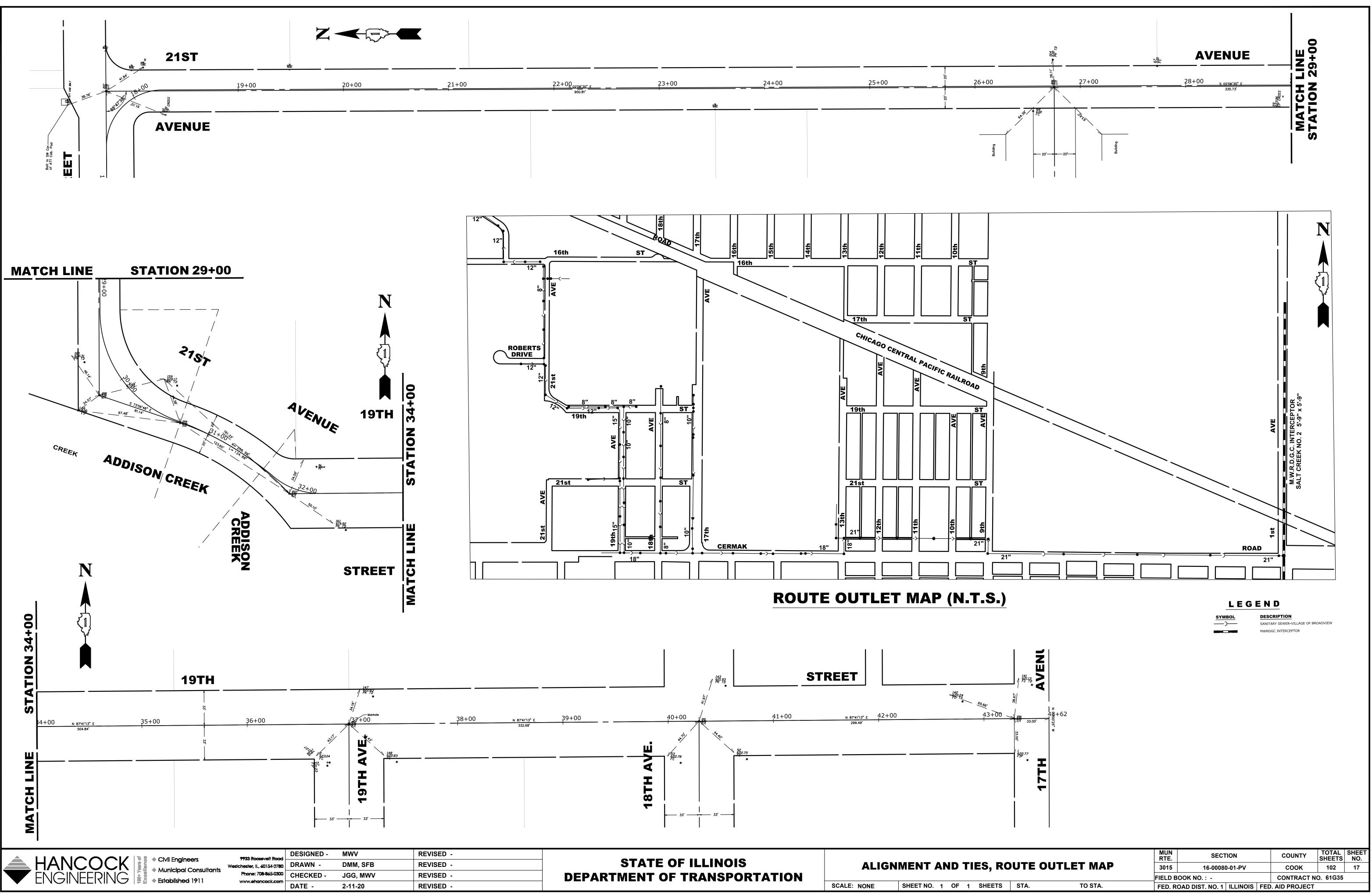
LANDSCAPED PARKWAY

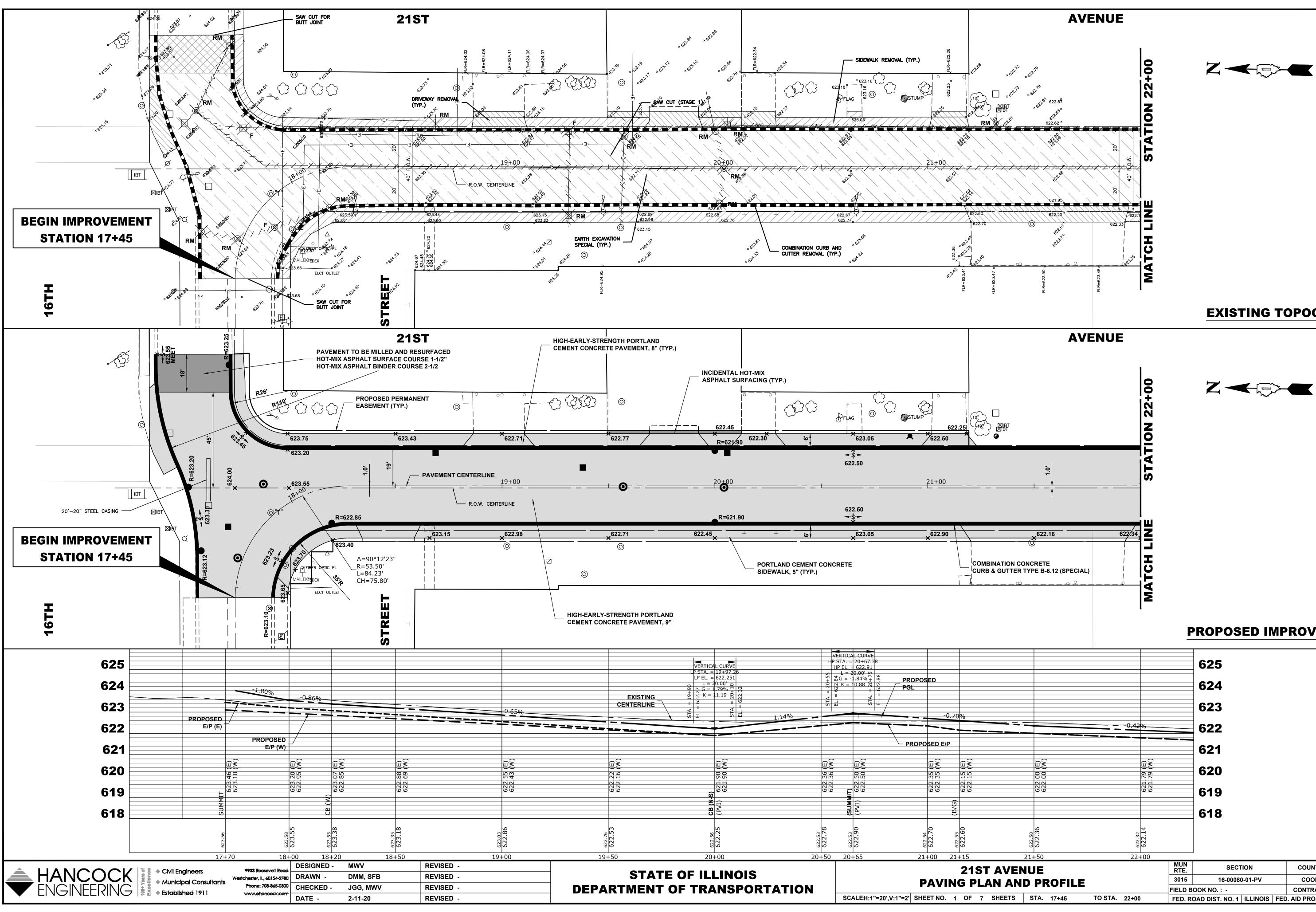
AGGREGATE SUBGRADE IMPROVEMENT, 12"

**INCIDENTAL HOT-MIX ASPHALT RESURFACING** 

### **PROPOSED TYPICAL SECTION 19TH STREET** STA. 32+28 TO STA. 43+30

	MUN RTE.	SECTI	ON		COUNTY	TOTAL SHEETS	SHEET NO.	DJECT
IONS	3015	16-00080	-01-PV		СООК	102	16	PRO
	FIELD B	OOK NO. : -			CONTRACT NO	D. 61G35		щ
STA. TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED	. AID PROJECT			Ш
							·	. —

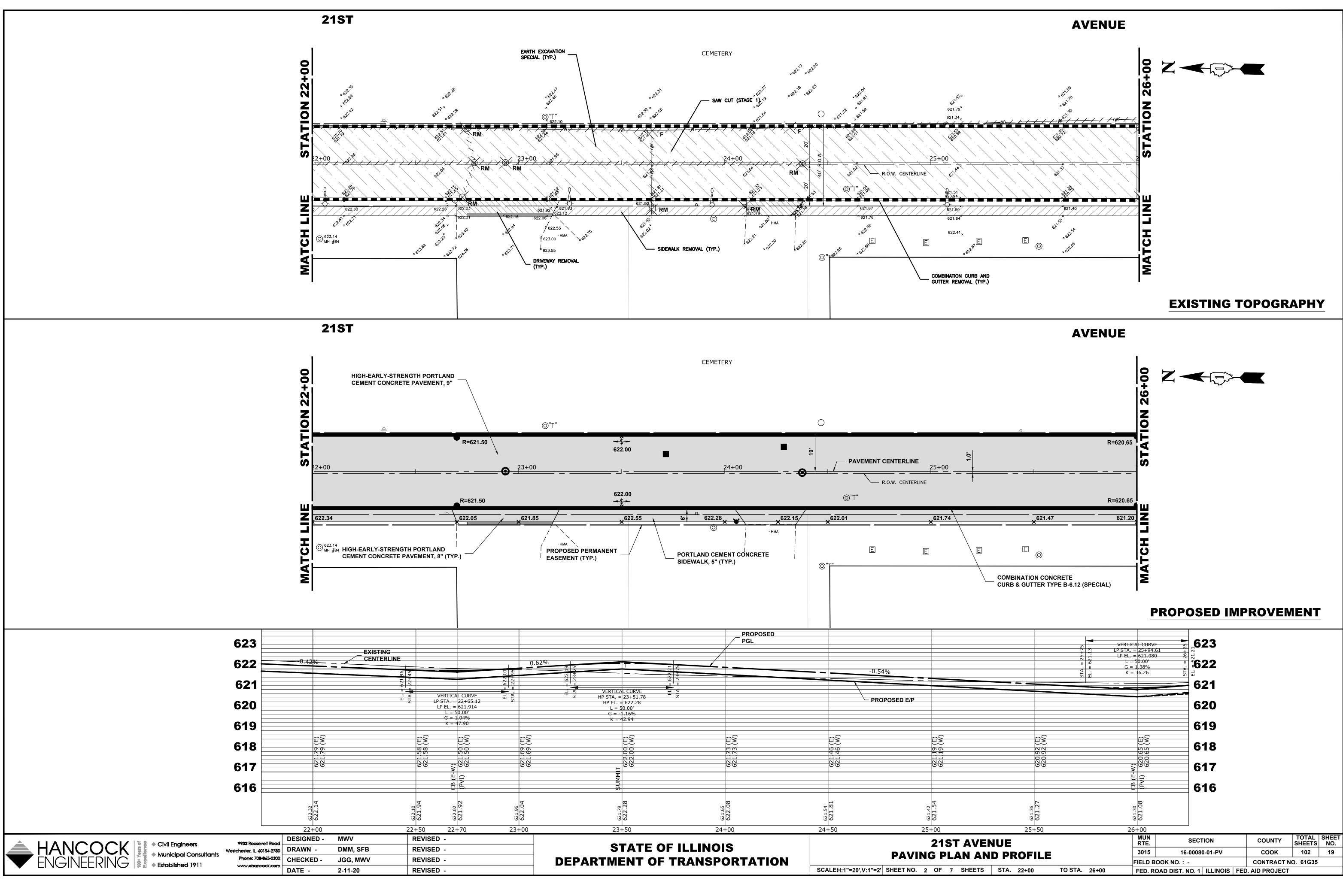




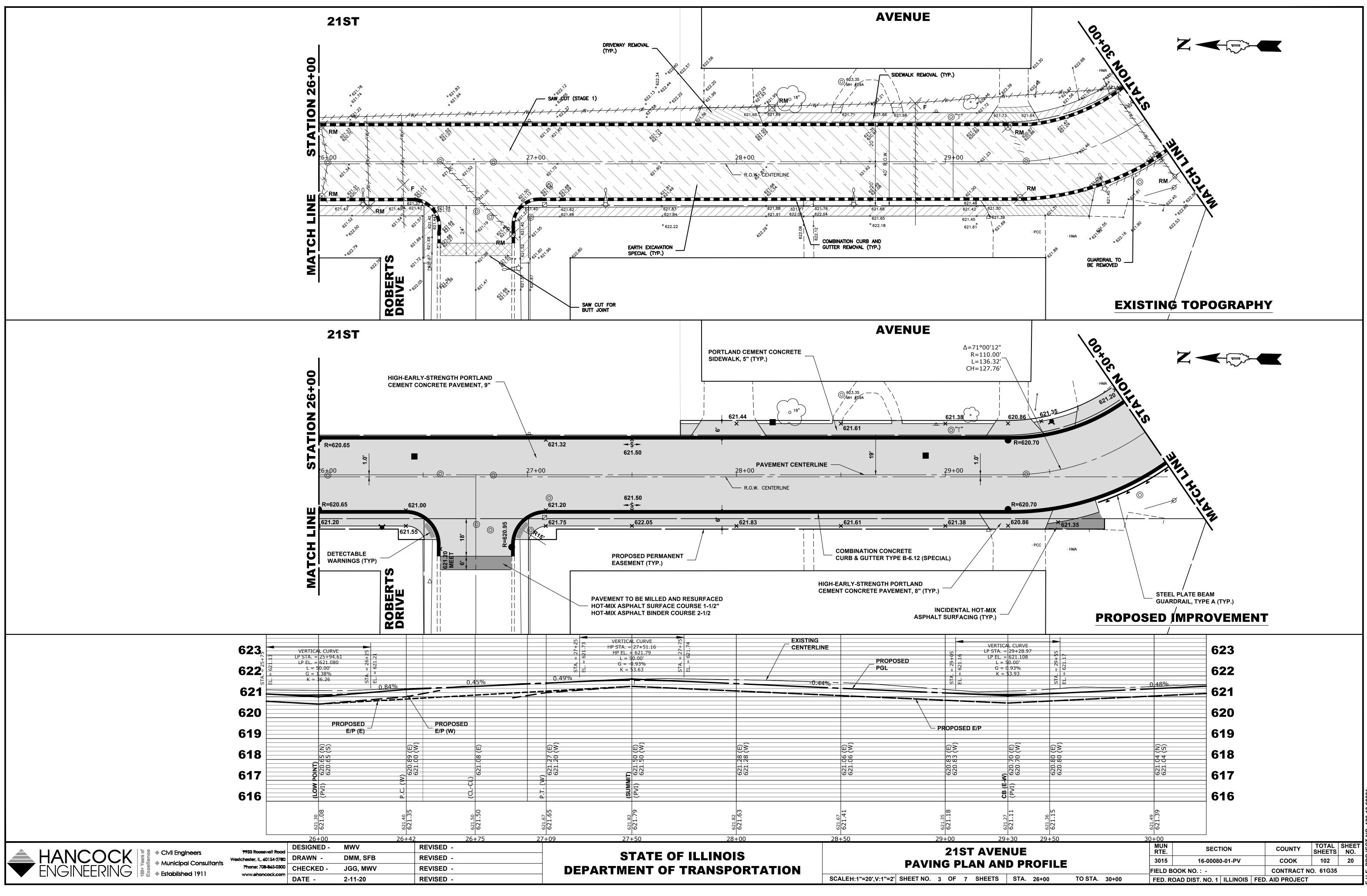
									PF	ROPOSED IN	IPROVE	<u>ΛΕΝΤ</u>
		VERTICAL CURVE LP STA. = $19+97.26$ LP EL. = $622.251$ L = $20.00^{\circ}$ $_{\odot}$ $G = 1.79\%$ $_{\odot}$	20+55 20+55	VERTICAL CURVE STA. = $20+67.38$ HP EL. = $622.91$ L = $20.00'$ $10$ $\frac{1}{10}$ G = $-1.84\% + 100$ $\frac{1}{10}$ G $\frac{1}{10}$ $$	PROPOSED /- PGL					625 624		
-0.65%	EXISTING CENTERLINE	1.14	STA.		-0.7	9%				623		
					PROPOSED E/P			<del>0.42%</del>		622 621		
.55 (E) .43 (W)	16 (E) (E)	00 (M) 00 00	36 (E) 36 (W)	20 (E) (M) (20 (E)		.15 (E) .15 (W)	((E)) (00 (E))	79 (E) 79 (W)		620		
952 952 960 975	025 025 025 025 025 025 025 025 025 025	PVI 62119 62119	622.36 622.36	BUMMIT) PVI) 622:50 622:50	622 622 622	622.15	0 925 625 9 9	621.79 621.79		619		
623.03	622.53	622.25 622.25 (P	622.53 622.78	622.53 (St 622.90 (P	C	622.60 622.60	622.36	622.32 622.14		618		
مان 19+00	<u>م</u> ان 19+50	20+00	<u>ە</u> ھ 20+50	<u>م</u> اض 20+65		+15	<u>م</u> اص 21+50	مان 22+00			1	
	-	OF ILLINOIS			PAVIN		AVENUE N AND PROFILE		MUN RTE. 3015 FIELD BOO	SECTION 16-00080-01-PV	COUNTY COOK CONTRACT	TOTAL SHEE SHEETS NO. 102 18
				SCALEH:1"=20',V	:1"=2' SHEET NO. 1	OF 7 S	HEETS STA. 17+45 TO S	TA. 22+00		AD DIST. NO. 1 ILLINOIS		

### **EXISTING TOPOGRAPHY**

### DDODOCED IMPDOVEMENT

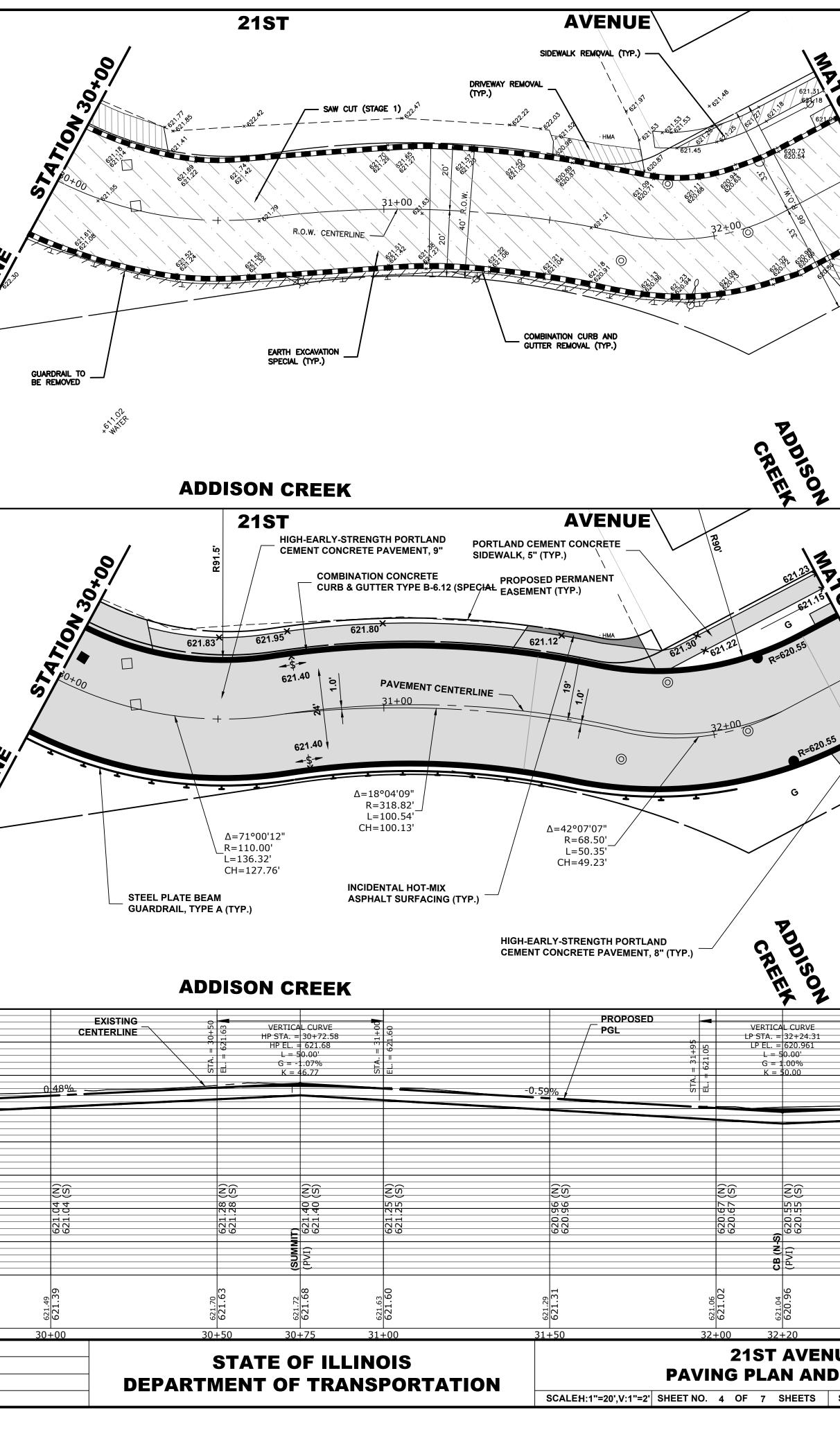


	RTICAL CURVE TA. = 25+94.61 EL. = 621.080	<b>623</b>			
STA EL. = 621	$\begin{array}{l} \text{LL} = 50.00'\\ \text{G} = 1.38\%\\ \text{K} = 36.26 \end{array}$	E= "=""			
		621			
		620			
		619			
33 33 33 33 33 33 33 33 33 33 33 33 33	.65 (E) .65 (W)	618			
00 070 090 000	(E-W) 620	617			
	CB (E (PVI)	616			
621.36 621.27	621.30 621.08				
25+50	26+00				
JE	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROFILE	3015	16-00080-01-PV	соок	102	19
	FIELD BOOK				
STA. 22+00 TO STA. 26+00	FED. ROAD	DIST. NO. 1 ILLINOIS FEE	. AID PROJECT		

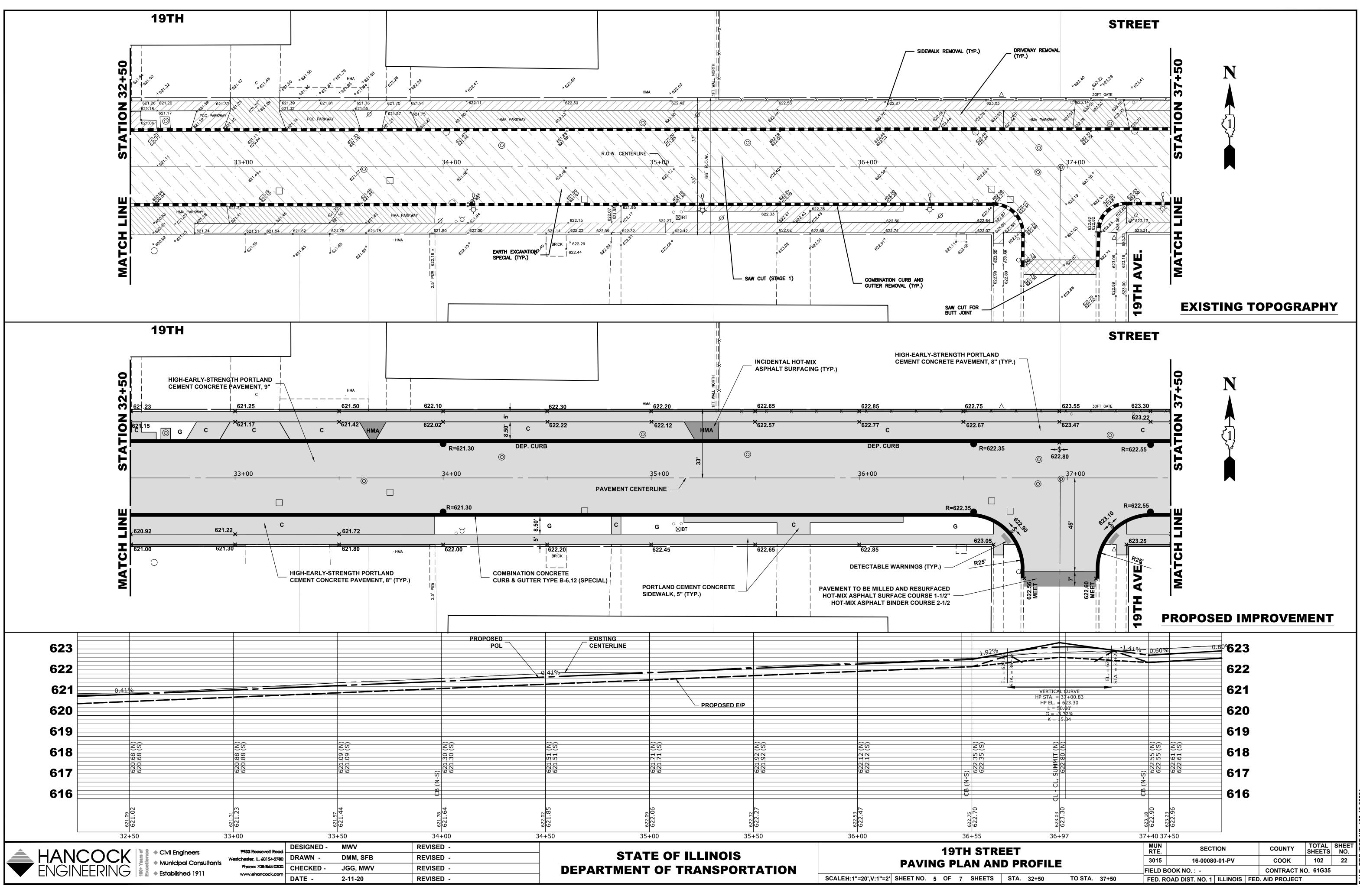


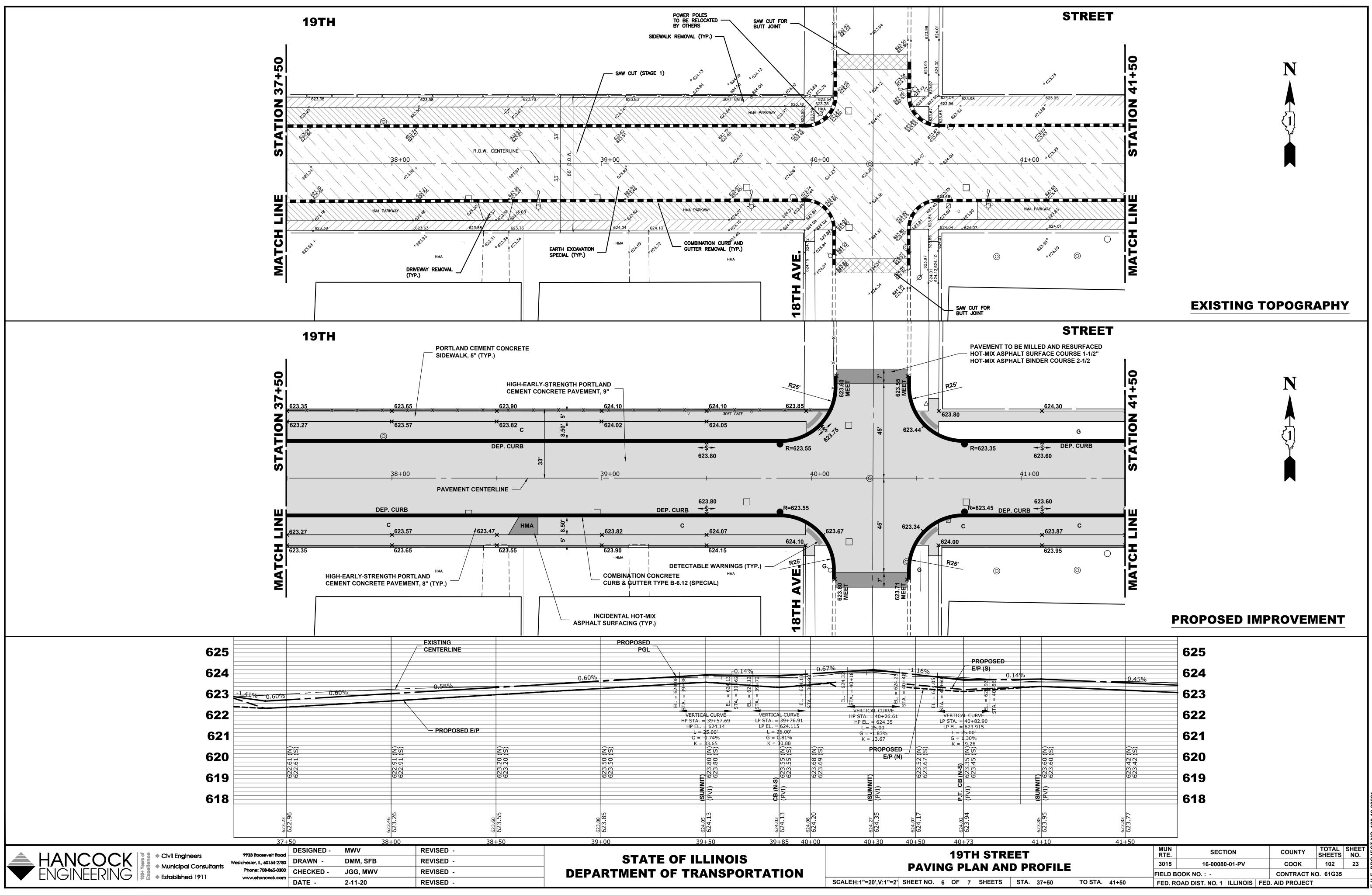
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					A CANAL AND A CANA
					623 622 621 620 619 618 617 616
HANCOCK ENGINEERING	<ul> <li>Civil Engineers</li> <li>Municipal Consultants</li> <li>Established 1911</li> </ul>	9933 Roosevelt Road Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DESIGNED - DRAWN - CHECKED - DATE -	MWV DMM, SFB JGG, MWV 2-11-20	REVISED - REVISED - REVISED - REVISED -

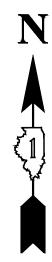


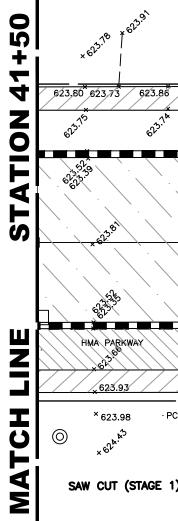
* 62. 2* * 62.	2 32+50	
		EXISTING TOPOGRAPHY
U S.		
5 621.00		
	1.4 50	
		<b>PROPOSED IMPROVEMENT</b>
	623	PROPOSED IMPROVEMENT
A. = 32+45 = 621.00	623 622	PROPOSED IMPROVEMENT
		PROPOSED IMPROVEMENT
<u>اا ز</u>	622	PROPOSED IMPROVEMENT
	622 621	PROPOSED IMPROVEMENT
	622 621 620	
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U U U U U U U U U U U U U U	622 621 620 619 618	
	622 621 620 619 618 617	MUN       SECTION       COUNTY       TOTAL       SHEETT

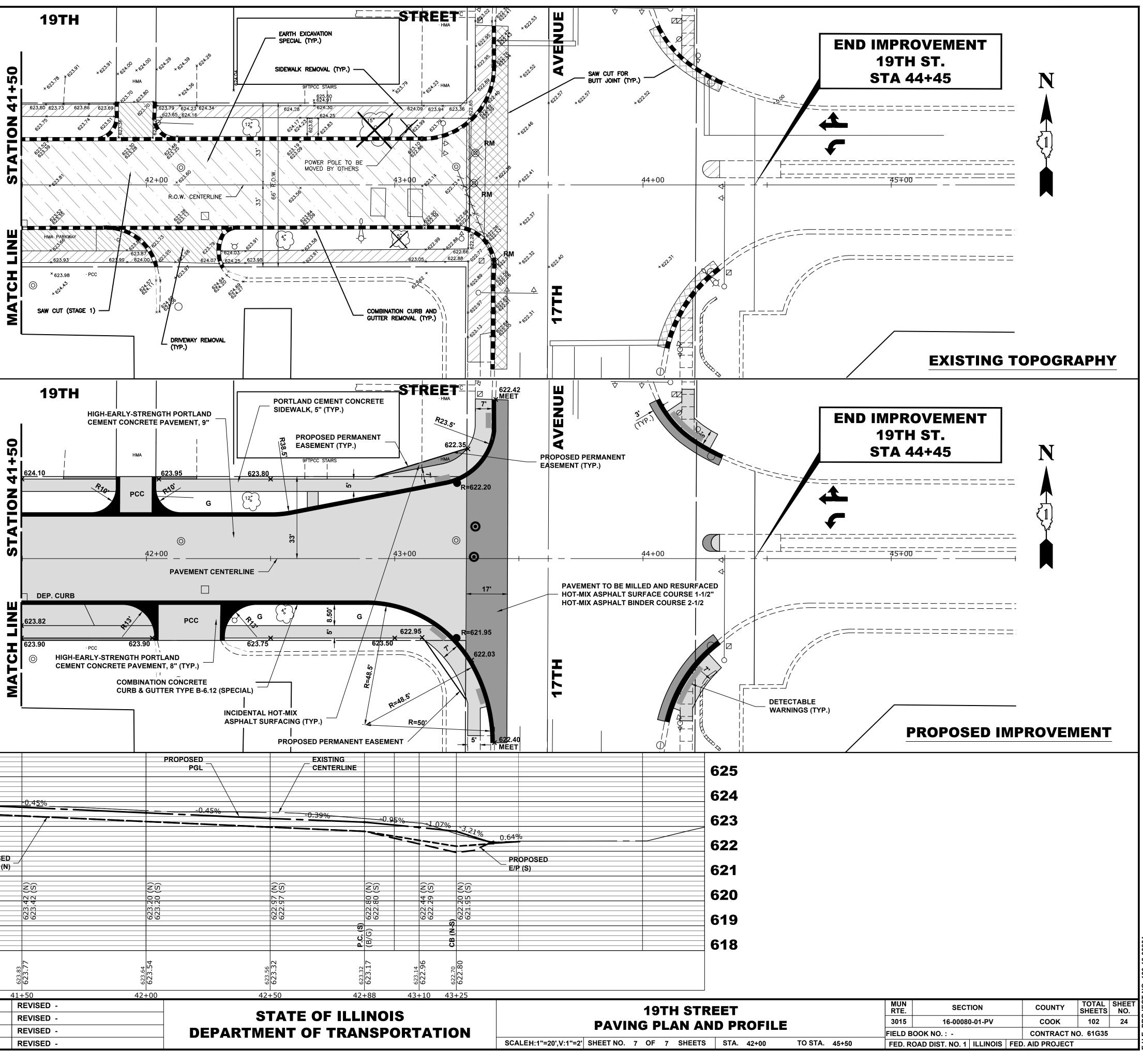


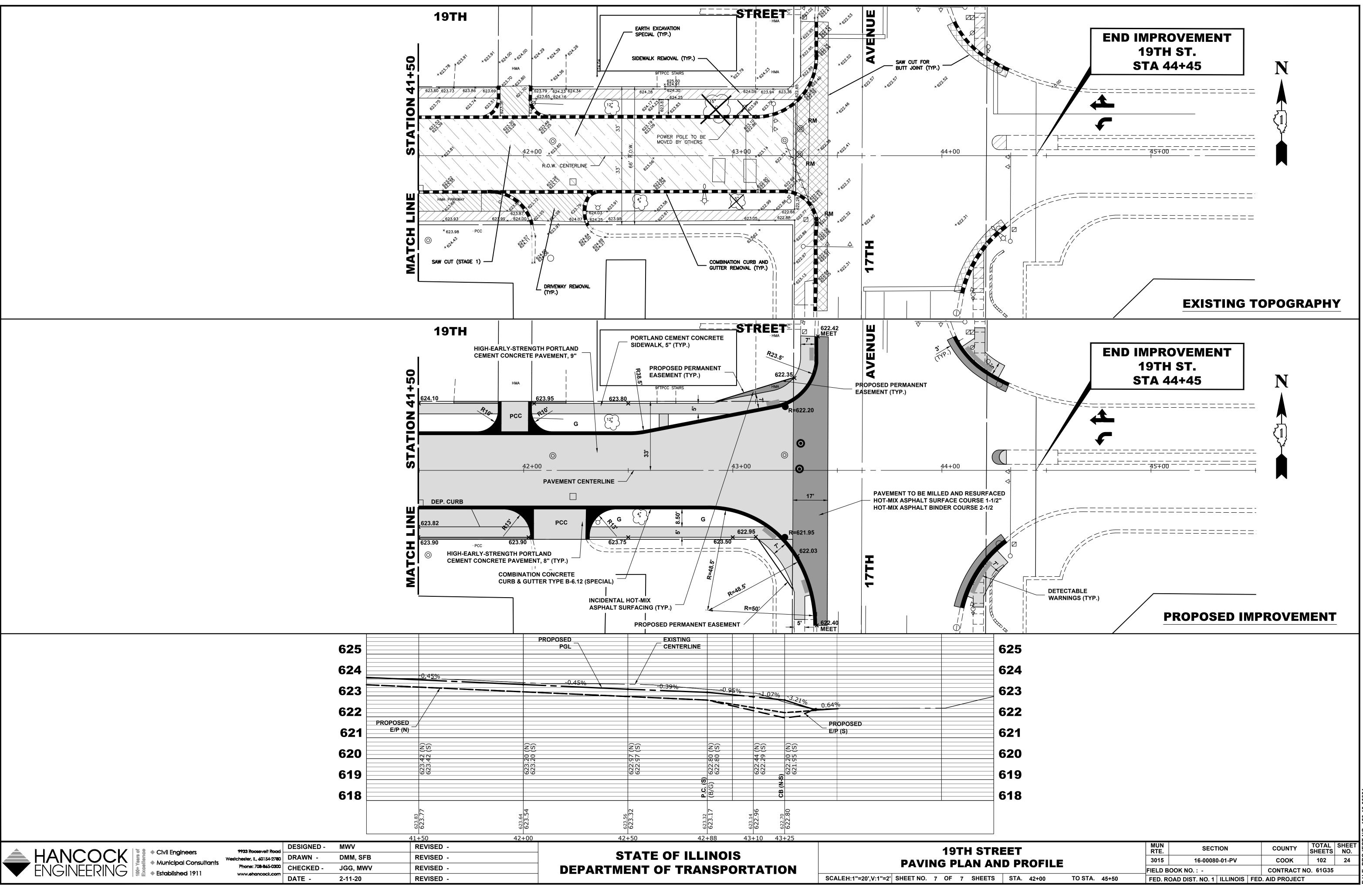


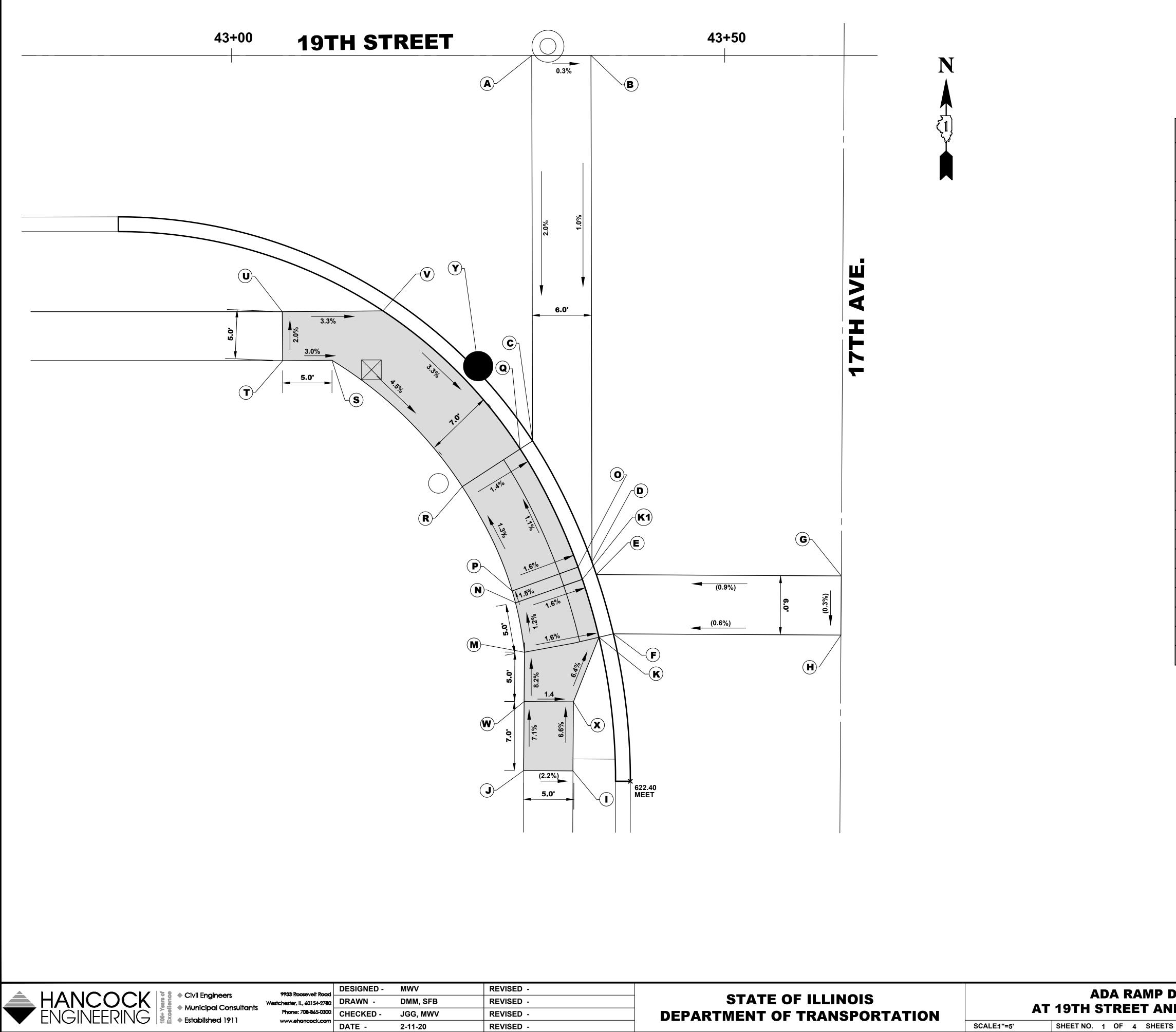






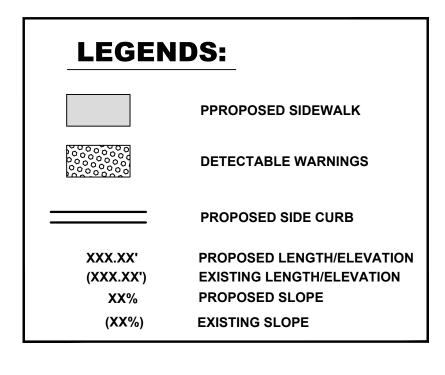




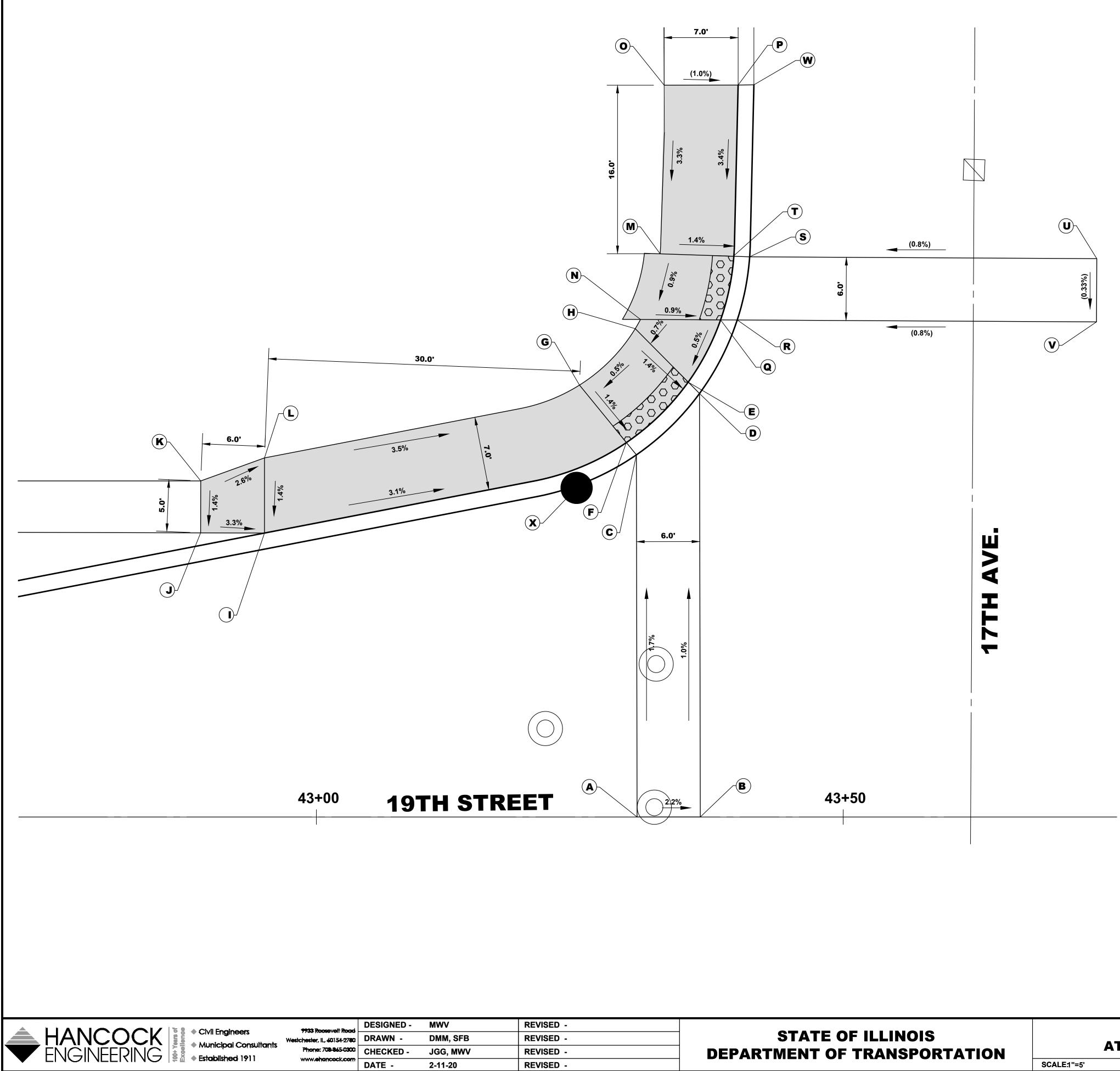


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	АТ	ADA RAMP D 19TH STREET AN
	SCALE1"=5'	SHEET NO. 1 OF 4 SHEETS

	SV	V CORNI	ER	
	STATION	OFFSET (FT.)	SIDE	Elevation
А	43+30.15	0.0	R	622.80
В	43+36.50	0.0	R	622.67
С	43+30.15	39.1	R	622.03
D	43+36.50	51.2	R	622.17
Е	43+37.43	52.7	R	622.19
F	43+38.40	58.7	R	622.25
G	43+62.30	52.8	R	(622.42)
Н	43+62.25	58.8	R	(622.40)
I	43+34.70	71.3	R	(623.14)
J	43+29.70	71.3	R	(623.25)
К	43+37.24	59.0	R	622.23
K1	43+35.56	53.1	R	622.17
М	43+29.70	60.5	R	622.34
Ν	43+28.94	55.5	R	622.28
0	43+35.11	51.8	R	622.15
Р	43+28.54	54.3	R	622.26
Q	43+29.12	39.9	R	622.01
R	43+23.38	43.7	R	622.11
S	43+10.18	31.1	R	622.95
Т	43+05.18	31.1	R	623.10
U	43+05.14	26.1	R	623.00
V	43+15.34	25.9	R	622.67
W	43+29.70	65.5	R	622.75
Х	43+34.70	65.5	R	622.68
Y	43+25.00	32.3	R	621.95



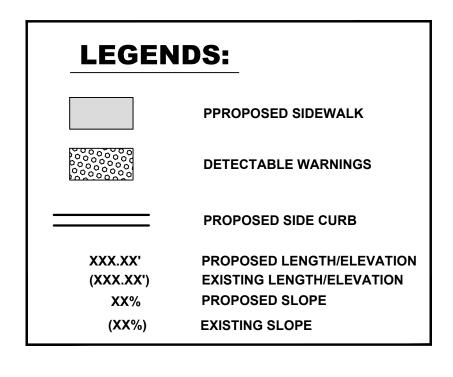
MUN RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
3015	16-00080-01-PV		COOK	102	25
FIELD B	00K NO. : -		CONTRACT N	O. 61G35	
FED. R	OAD DIST. NO. 1 ILLINOIS	FED	. AID PROJECT		
	RTE. 3015 _FIELD B	RTE.         SECTION           3015         16-00080-01-PV           FIELD BOOK NO. : -         -	RTE.         SECTION           3015         16-00080-01-PV           FIELD BOOK NO. : -         -	RTE.     SECTION     COUNTY       3015     16-00080-01-PV     COOK       FIELD BOOK NO. : -     CONTRACT NO	RTE.         SECTION         COUNTY         SHEETS           3015         16-00080-01-PV         COOK         102           FIELD BOOK NO. :         -         CONTRACT NO. 61G35



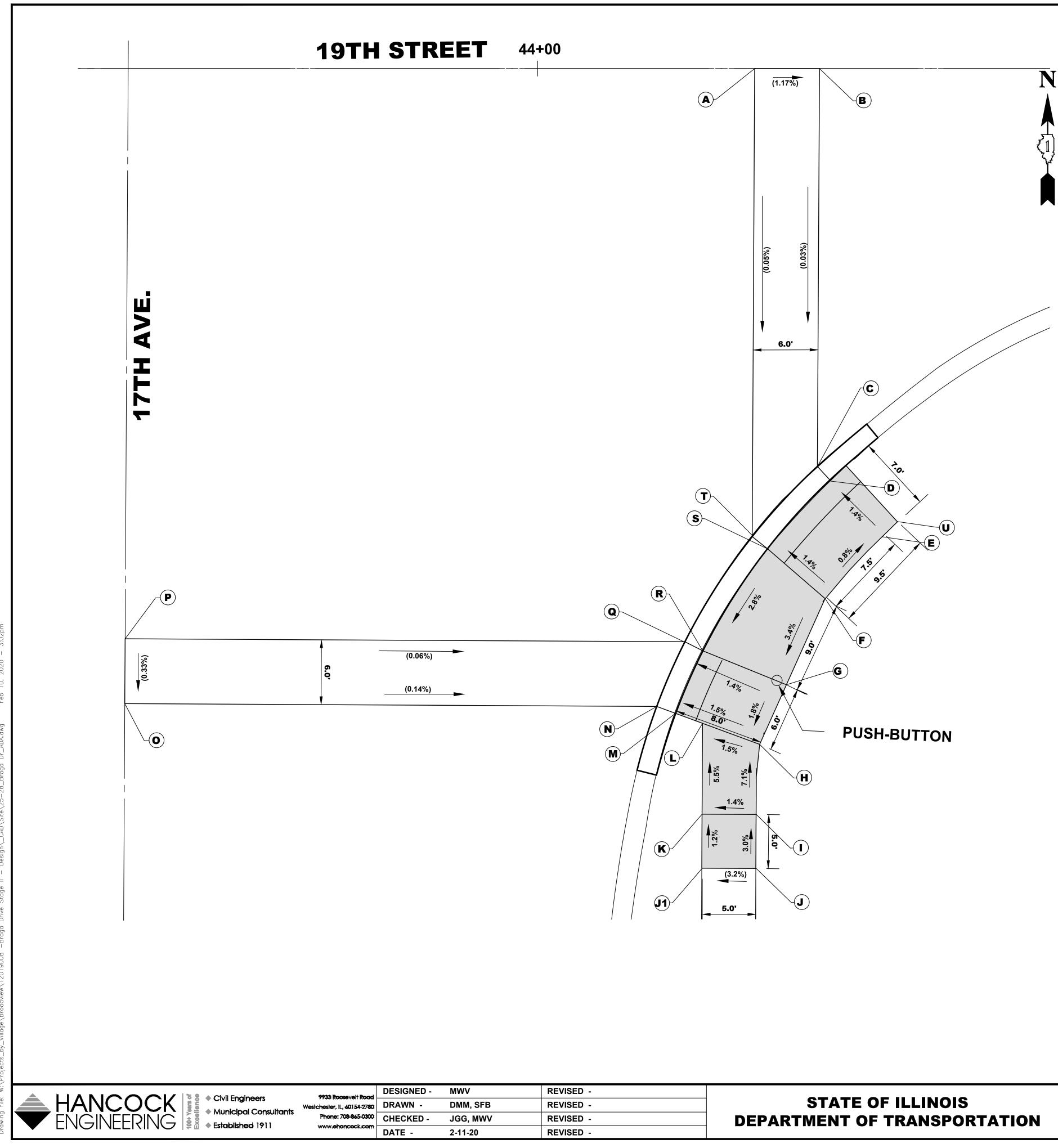
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ΓA	ADA RAMP DE 19TH STREET AND
	SCALE:1"=5'	SHEET NO. 2 OF 4 SHEETS

	N	W CORN	IER	
	STATION	OFFSET (FT.)	SIDE	Elevation
А	43+30.15	0.0	L	622.80
В	43+36.50	0.0	L	622.67
С	43+30.15	34.4	L	622.23
D	43+36.50	40.2	L	622.27
Е	43+34.90	41.5	L	622.25
F	43+29.20	35.6	L	622.21
G	43+25.00	41.4	L	622.31
Н	43+30.60	46.6	L	622.35
I	42+95.00	27.2	L	623.26
J	42+89.01	27.2	L	623.46
К	42+89.02	32.2	L	623.53
L	42+95.00	34.3	L	623.36
Μ	43+32.00	53.8	L	622.42
N	43+30.00	47.4	L	622.36
0	43+32.40	70.0	L	(622.94)
Р	43+39.00	70.0	L	(622.87)
Q	43+37.50	47.4	L	622.29
R	43+39.20	47.4	L	622.31
S	43+40.50	53.4	L	622.34
Т	43+39.00	53.4	L	622.32
U	43+74.06	53.4	L	(622.60)
V	43+74.10	47.4	L	(622.58)
W	43+40.50	69.4	L	(622.42)
Х	43+25.00	31.5	L	622.20

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MUN RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	C L L
3015	16-00080	-01-PV		COOK	102	26	
FIELD B	OOK NO. : -			CONTRACT N	D. 61G35		U
FED. RO	DAD DIST. NO. 1	ILLINOIS	FED.	AID PROJECT			
	RTE. 3015 FIELD B	RTE.         SECT           3015         16-00080           FIELD BOOK NO. : -         -	RTE.         SECTION           3015         16-00080-01-PV           FIELD BOOK NO. : -         -	RTE.         SECTION           3015         16-00080-01-PV           FIELD BOOK NO. :         -	RTE.         SECTION         COUNTY           3015         16-00080-01-PV         COOK	RTE.         SECTION         COUNTY         SHEETS           3015         16-00080-01-PV         COOK         102           FIELD BOOK NO. : -         CONTRACT NO. 61G35	RTE.         SECTION         COUNTY         SHEETS         NO.           3015         16-00080-01-PV         COOK         102         26           FIELD BOOK NO. :         -         CONTRACT NO. 61G35



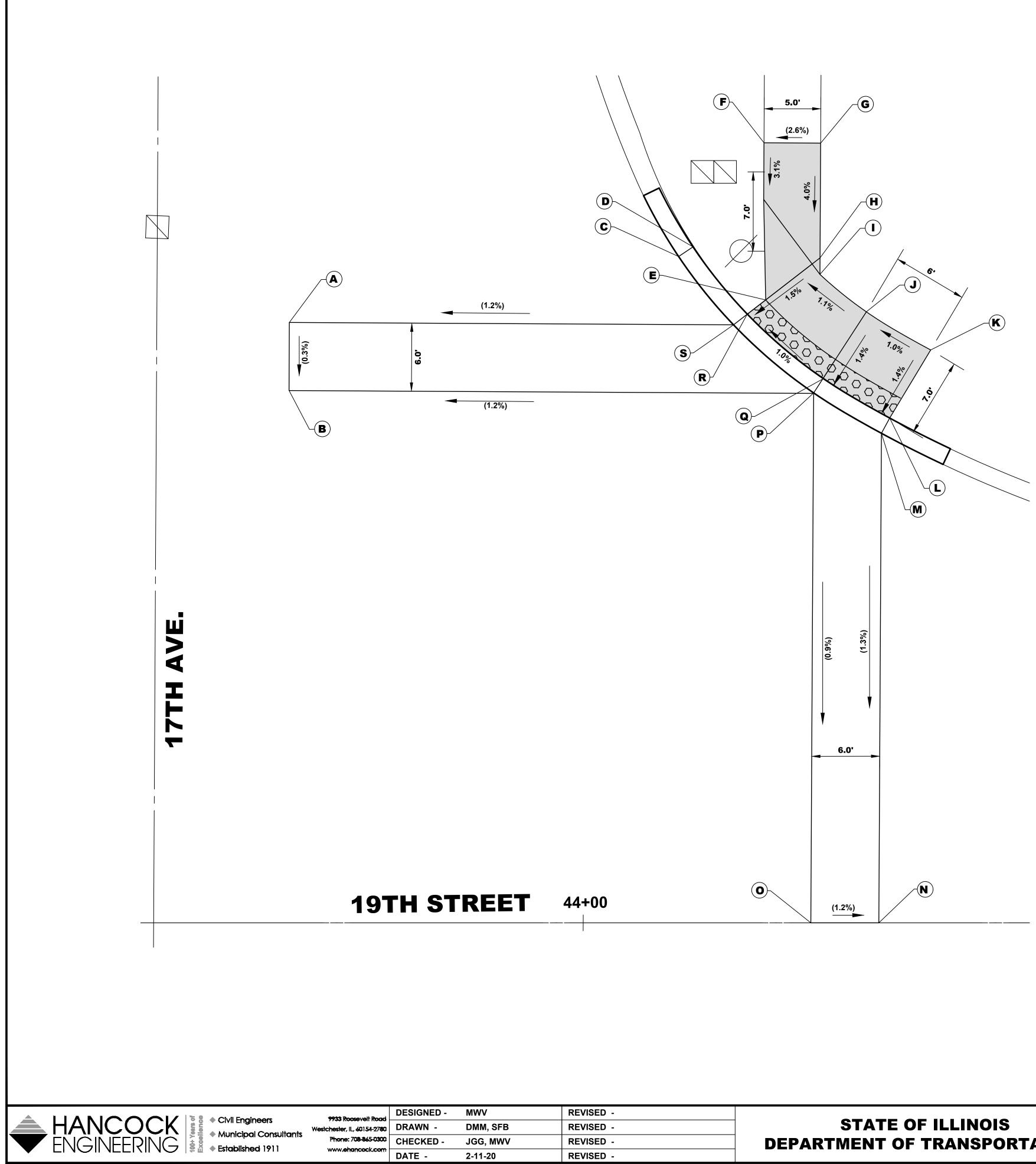
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		ADA RAMP DE	TAILS		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET OU NO.
STATE OF ILLINOIS	AT 19TH STREET AND 17TH AVENUE				3015	16-00080-01-PV	СООК	102	27 OY
DEPARTMENT OF TRANSPORTATION					FIELD B	OOK NO. : -	CONTRACT N	IO. 61G35	щ
	SCALE:1"=5'	SHEET NO. 3 OF 4 SHEETS	STA. 42+00	TO STA. 44+00	FED. R	OAD DIST. NO. 1 ILLINOIS FED	. AID PROJECT		т. ш

S	E CORNE	R	
STATION	OFFSET (FT.)	SIDE	Elevation
44+20.07	0.0	R	(622.72)
44+26.07	0.0	R	(622.65)
44+25.87	37.0	R	622.64
44+27.13	38.2	R	622.62
44+31.87	43.6	R	622.72
44+26.77	49.3	R	622.78
44+22.30	57.0	R	622.47
44+20.90	62.5	R	622.43
44+20.70	69.0	R	622.89
44+20.70	74.0	R	(623.04)
44+15.70	74.0	R	(622.65)
44+15.70	69.0	R	622.82
44+15.70	60.5	R	622.35
44+12.74	59.6	R	622.31
44+11.00	59.0	R	622.33
43+62.00	59.0	R	(622.40)
43+62.00	53.0	R	(622.42)
44+13.61	53.1	R	622.39
44+15.26	53.9	R	622.37
44+21.29	44.5	R	622.68
44+19.84	43.2	R	622.70
44+33.5	42.0	R	622.75

LEGEN	IDS:
	PPROPOSED SIDEWALK
00000000 00000000 00000000 0000000	DETECTABLE WARNINGS
	PROPOSED SIDE CURB
XXX.XX' (XXX.XX') XX%	PROPOSED LENGTH/ELEVATION EXISTING LENGTH/ELEVATION PROPOSED SLOPE
(XX%)	EXISTING SLOPE

I.E. PROJECT NO. 120-19-00801

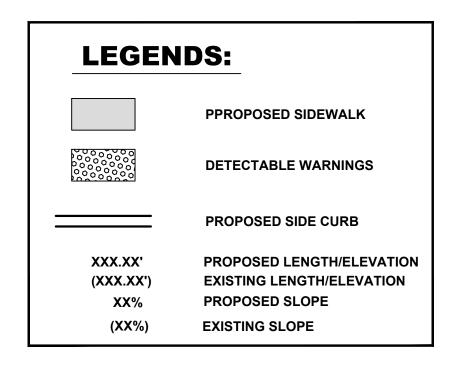


NE CORNER								
	STATION	OFFSET (FT.)	SIDE	Elevation				
А	43+74.10	52.9	L	622.60				
В	43+74.06	46.9	L	622.58				
С	44+08.40	58.8	L	623.00				
D	44+09.70	59.6	L	622.98				
E	44+15.91	55.0	L	623.07				
F	44+15.94	69.0	L	(622.50)				
G	44+20.94	69.0	L	(622.63)				
Н	44+20.87	59.0	L	623.16				
I	44+20.87	57.4	L	623.17				
J	44+24.80	54.0	L	623.23				
К	44+30.10	50.7	L	623.29				
K1	44+27.03	44.5	L	623.19				
М	44+26.30	43.2	L	623.21				
Ν	44+26.07	0.0	L	(622.65)				
0	44+20.07	0.0	L	(622.72)				
Р	44+20.32	46.8	L	623.15				
Q	44+21.19	48.2	L	623.13				
R	44+14.25	54.0	L	623.04				
S	44+13.25	52.8	L	623.06				

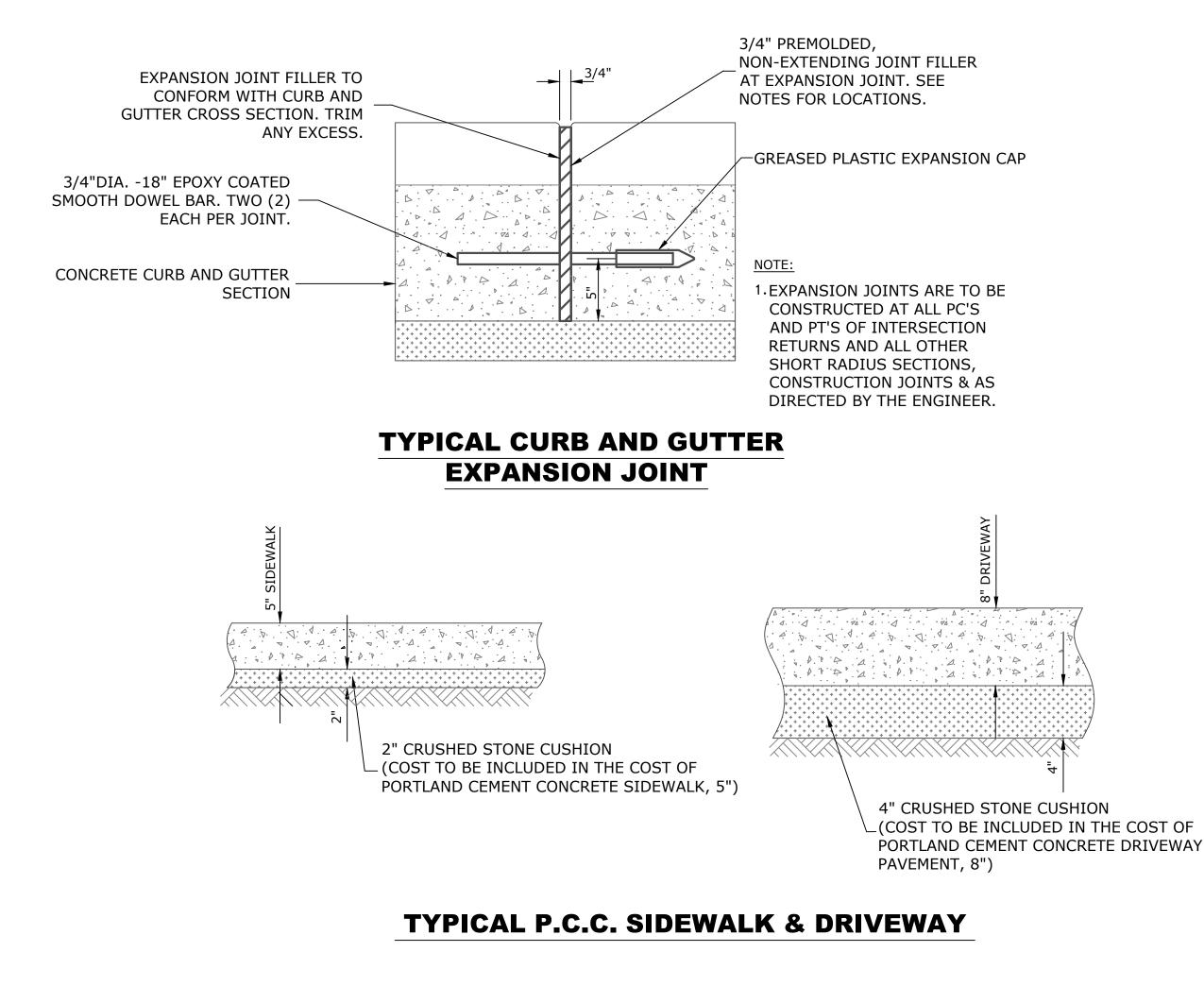
# **DEPARTMENT OF TRANSPORTATION**

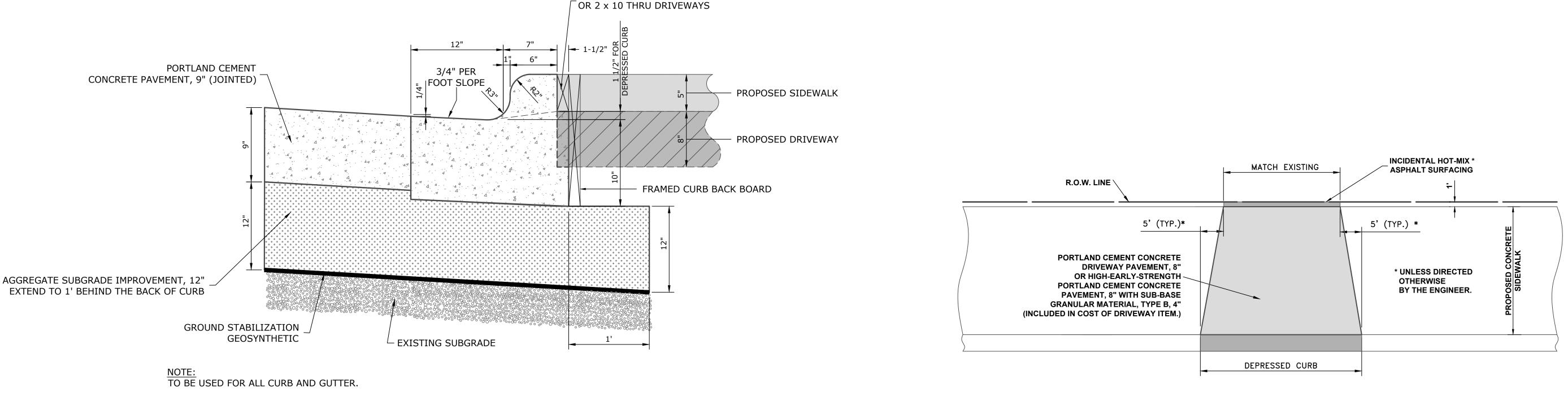
SCALE:1"=5'

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ETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
D 17TH AVENUE		16-00080-01-PV			СООК	102	28	PRO
	FIELD BOOK NO. : -				CONTRACT NO	D. 61G35		ш
STA. 42+00 TO STA. 44+00	FED. R	OAD DIST. NO. 1	ILLINOIS	FED	. AID PROJECT			Ш



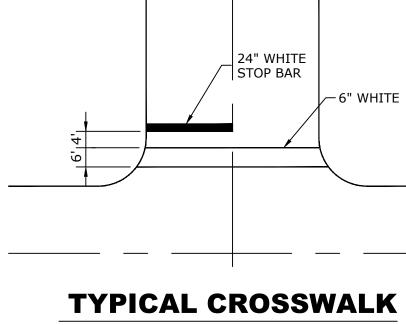


## **COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (SPECIAL)**

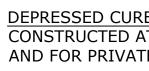
	Civil Engineers 9933 Roosevelt Road			REVISED -
HANCOCK ENGINEERING Stablished 1911	Westchester, IL, 60154-2780	DRAWN -	DMM, SFB	REVISED -
	Phone: 708-865-0300	CHECKED -	JGG, MWV	REVISED -
	www.ehancock.com	DATE -	2-11-20	REVISED -

STATE OF ILLINOIS		ROADWAY DET
DEPARTMENT OF TRANSPORTATION		
	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

2 x 6 NAILED TO BACK BOARD



**& STOP BAR** 



DRAINAGE OPENINGS - AT ALL LOCATIONS WHERE CASTINGS ARE TO BE INCORPORATED IN THE CURB AND GUTTER, A 3/4" EXPANSION JOINT SHALL BE INSTALLED IN THE CURB AND GUTTER A DISTANCE OF 5 FT. FROM EACH SIDE OF THE CASTING. 2-NO. 4 RE-BARS, 9' IN LENGTH, SHALL BE INCORPORATED IN THE CONTINUOUS PORTION OF CONCRETE CURB BEHIND THE CASTING.

DETECTABLE WARNINGS - DETECTABLE WARNINGS SHALL BE INSTALLED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS, AT ALLEY RETURNS, AND STREET INTERSECTIONS. THESE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE IDOT STANDARDS.

SLIPFORM CONSTRUCTION - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4" PER FOOT OF HEIGHT TO AID IN SLIPFORM OPERATIONS. THE PROPOSED CURB HEIGHT IS VARIABLE.

DEPRESSED CURB HEIGHT - THE HEIGHT OF THE DEPRESSED CURB SHALL BE 1-1/2" AT DRIVEWAYS. SEE IDOT STANDARD 424001-05 FOR HEIGHT AT SIDEWALK RAMP.

BITUMINOUS EXPANSION JOINTS - THREE QUARTER INCH (3/4") BITUMINOUS PREMOLDED INORGANIC FIBER EXPANSION JOINTS SHALL BE INSTALLED WHERE NEW SIDEWALK OR CURB AND GUTTER OR DRIVEWAY PAVEMENT ABUTS AN EXISTING CONCRETE WALK, DRIVE, OR CURB WHICH IS TO REMAIN IN PLACE, AND AT NOT LESS THAN NINETY FOOT (90') INTERVALS AT LOCATIONS WHERE CURB REPLACEMENT IS IN EXCESS OF NINETY FEET (90'); AT RADIUS POINTS, AT BOTH SIDES OF FRAMES AND GRATES WHICH FALL IN THE CURB; AND AS DIRECTED BY THE ENGINEER.

ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4") DIAMETER, SMOOTH, ROUND, EPOXY COATED DOWEL BARS, EIGHTEEN INCHES (18") IN LENGTH, WITH GREASED PLASTIC END CAPS INSERTED TO ALLOW THE CURB AND GUTTER TO EXPAND AND CONTRACT LATERALLY. CONTRACTION JOINTS SHALL BE TOOLED INTO THE CURB AND GUTTER AT INTERVALS NOT TO EXCEED FIFTEEN FEET (15'). THESE CONTRACTION JOINTS SHALL BE SAW CUT TO A DEPTH OF TWO INCHES (2") WITHIN TWENTY-FOUR (24) HOURS OF CONCRETE PLACEMENT AND CAULKED WITHIN SEVEN (7) DAYS. THE COST OF THE ABOVE WORK SHALL BE INCLUDED IN THE RESPECTIVE ITEMS FOR CONCRETE INSTALLATION.

THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.

### **GENERAL NOTES**

DEPRESSED CURBS - THE TOP OF CURBS SHALL BE DEPRESSED WHERE THE CURB AND GUTTER IS CONSTRUCTED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS AT ALLEY RETURNS AND STREET INTERSECTIONS, AND FOR PRIVATE AND COMMERCIAL DRIVES AND AS DIRECTED BY THE ENGINEER

THE EDWIN HANCOCK ENGINEERING COMPANY AND THE VILLAGE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.

### DRIVEWAY

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			9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
		Aunicipal Consultants	Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DRAWN -	DMM, SFB	REVISED -
/				CHECKED -	JGG, MWV	REVISED -
				DATE -	2-11-20	REVISED -

	LEGEND OF	SYMBOLS		
DESCRIPTION	CODE & SIZE	SYMBOL	DESCRIPTION	CODE & SIZE
END WORK ZONE SPEED LIMIT	G20- I103 36"x60"	S	STOP	R1-1 30"x30"
LOCAL BUSINESSES OPEN	CUSTOM 36"x24" 5" WHITE LETTERS ON BLUE BACKGROUNG	NLT		R3-2 24"x24"
WORK ZONE SPEED	W21-I115 36"x18"	NRT		R3-1 24"x24"
LIMIT 25 \$XXX FINE	R2-1 36"x48" R2-I106P	KR	KEEP → RIGHT	R4-7a 24"X30"
	M6-1(0) 21"x15"	KL	KEEP	R4-8a 24"X30"
	M6-1(0) 21"x15"	WW	WRONG WAY	R5-1a 36"x24"
ROAD CLOSED	W20-3 48"x48"	OWL	ONE WAY	R6-2 24"x30"
AHEAD		OWR	ONE WAY	R6-2 24"x30"
ROAD CONSTRUCTION AHEAD	W20-I103 48"x48"	B O W	BEGIN ONE WAY	R6-6 24"X30"
21st Av-19th St	M4-8 36"x12"	E O W	END ONE WAY	R6-7 24"X30"
	R5-1 30"X30"	SC	SIDEWALK CLOSED USE OTHER SIDE	R11-I102 24"x30"
ROAD CLOSED	R11-2 48"x30"	LS		W1-3L(0) 48"x48"
	W1-6L(0) 60"x30"	ONLY	ONLY	R3-5 30"x36"
	R3-27 24"x24"	ONLY	ONLY	R3-5 30"x36"

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

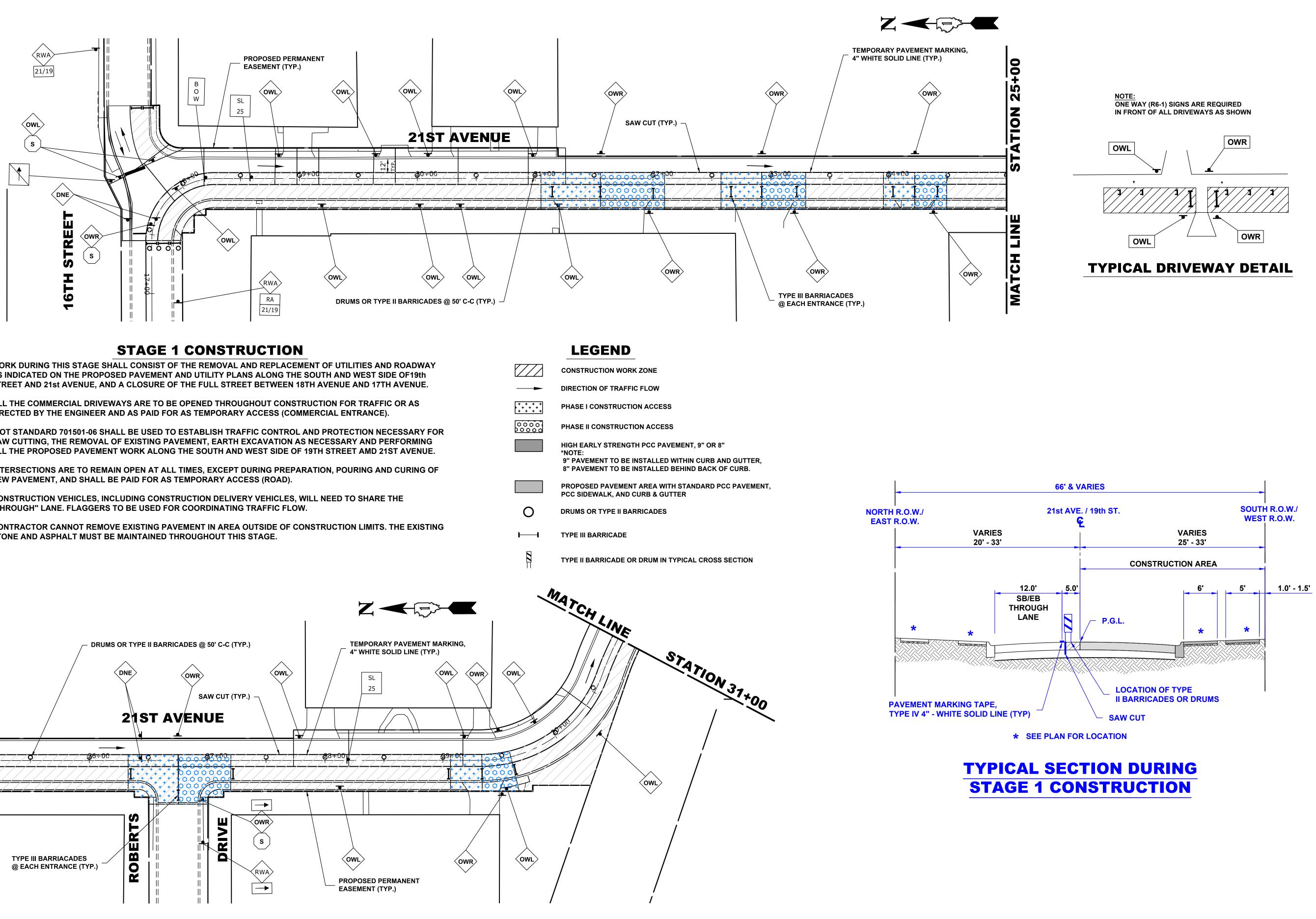
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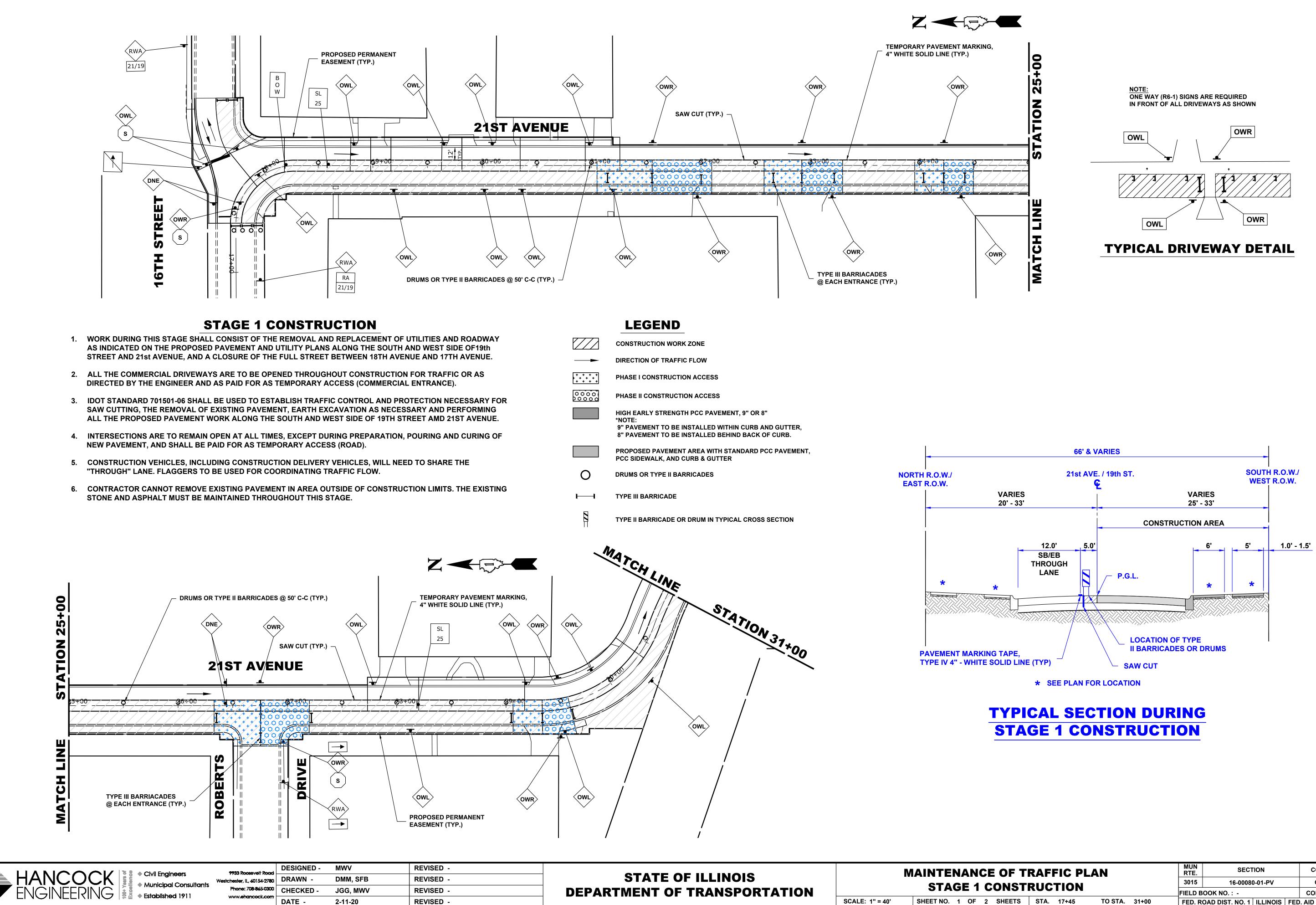
### NOTE:

CONTRACTOR MUST NOTIFY IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

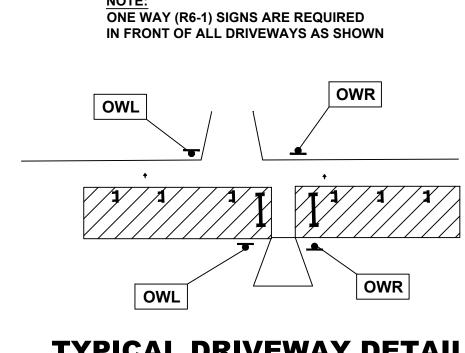
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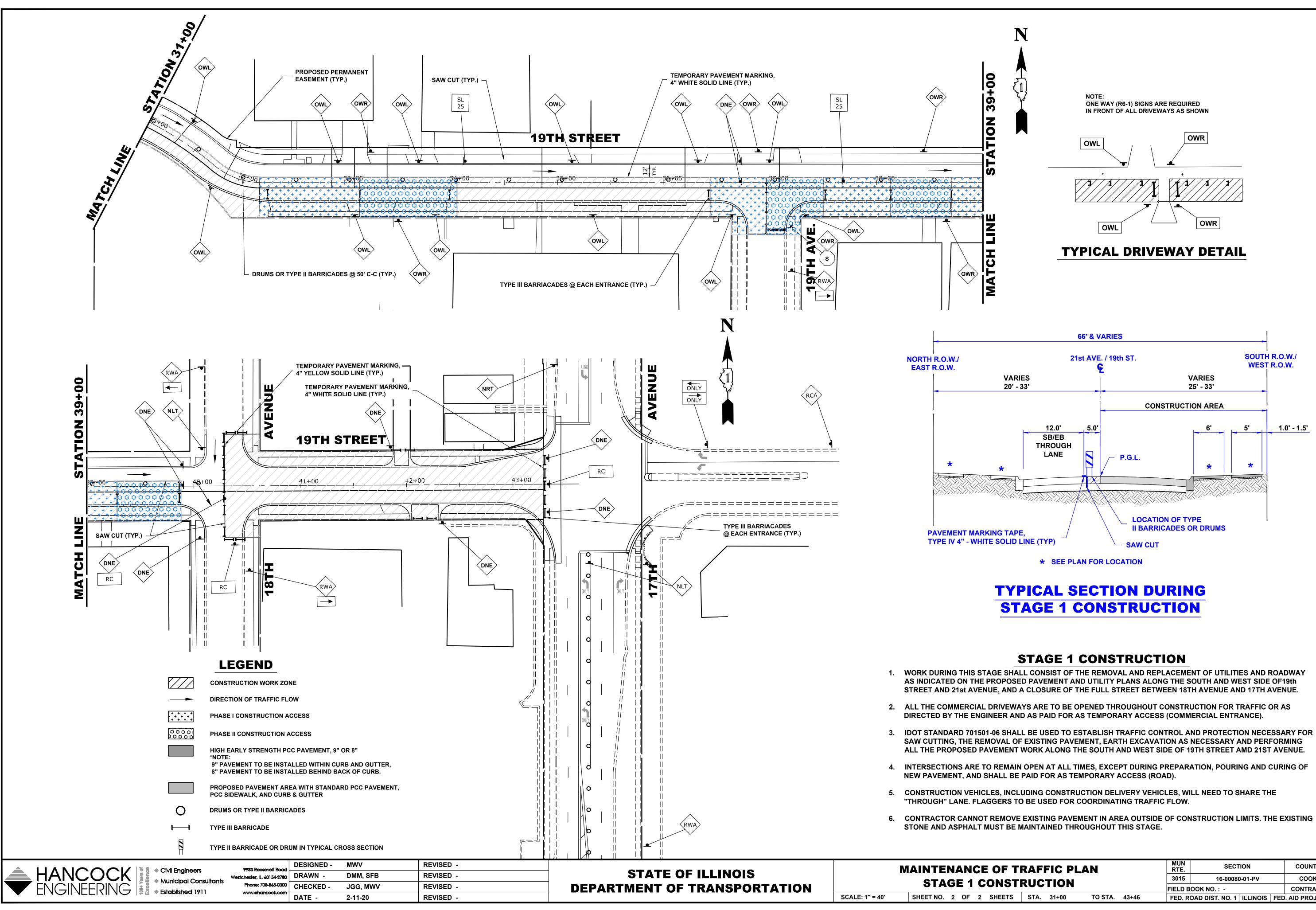
- DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (COMMERCIAL ENTRANCE).
- NEW PAVEMENT, AND SHALL BE PAID FOR AS TEMPORARY ACCESS (ROAD).
- "THROUGH" LANE. FLAGGERS TO BE USED FOR COORDINATING TRAFFIC FLOW.
- STONE AND ASPHALT MUST BE MAINTAINED THROUGHOUT THIS STAGE.

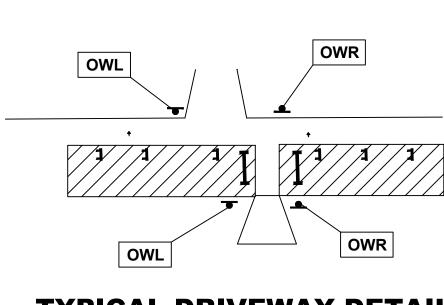


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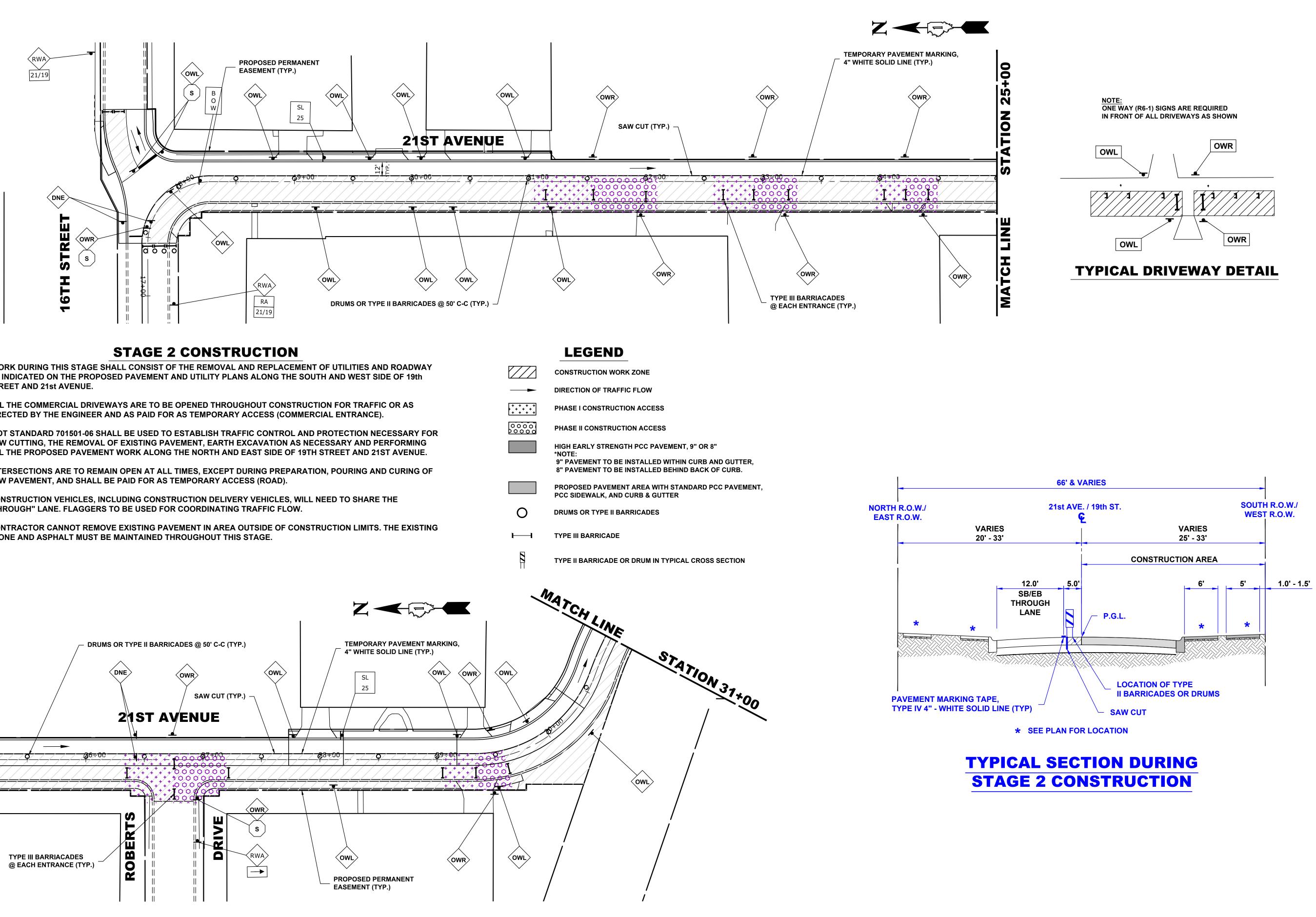


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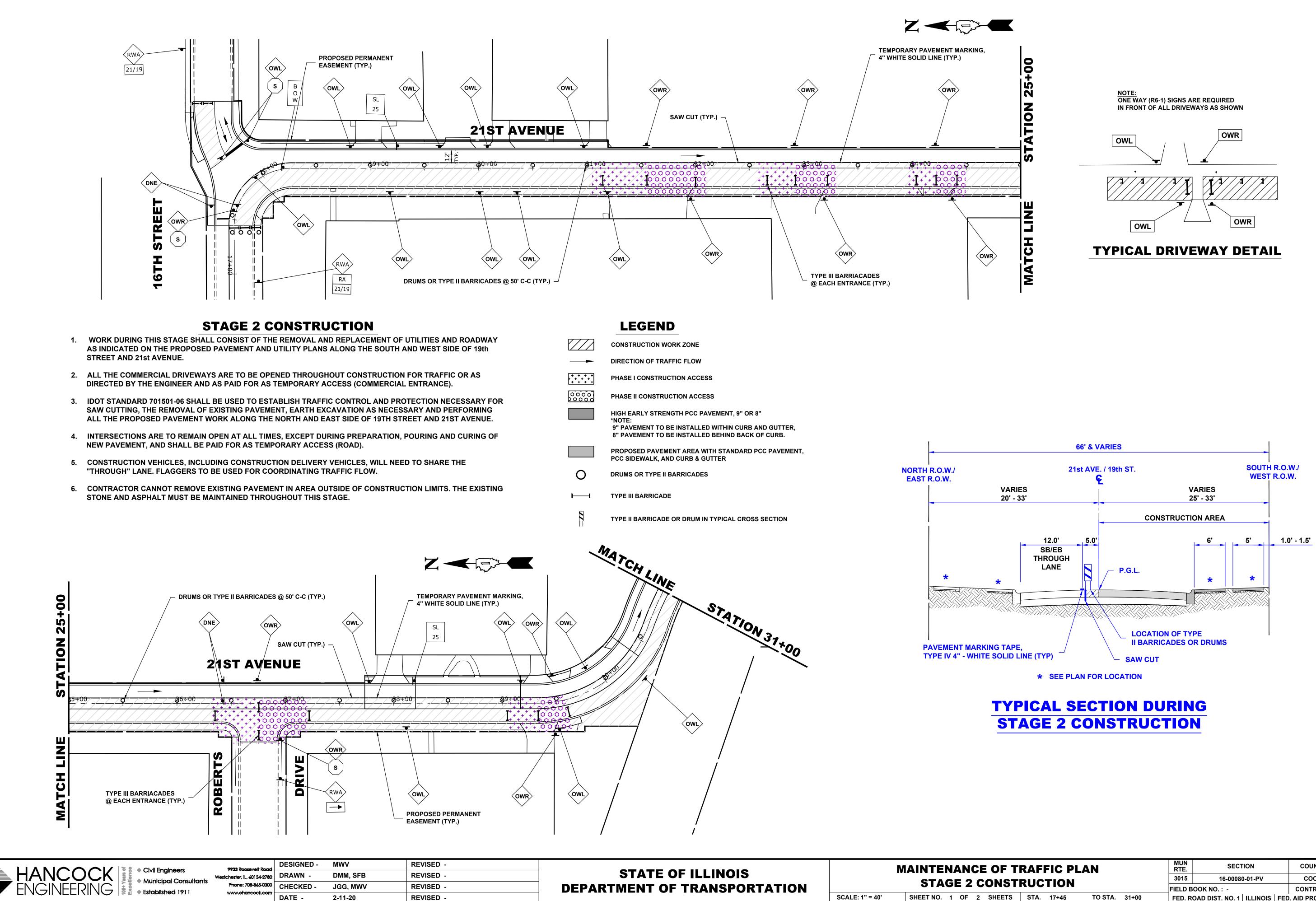




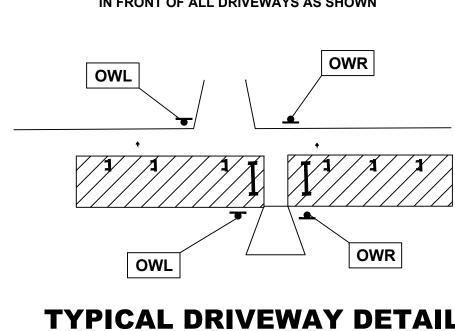
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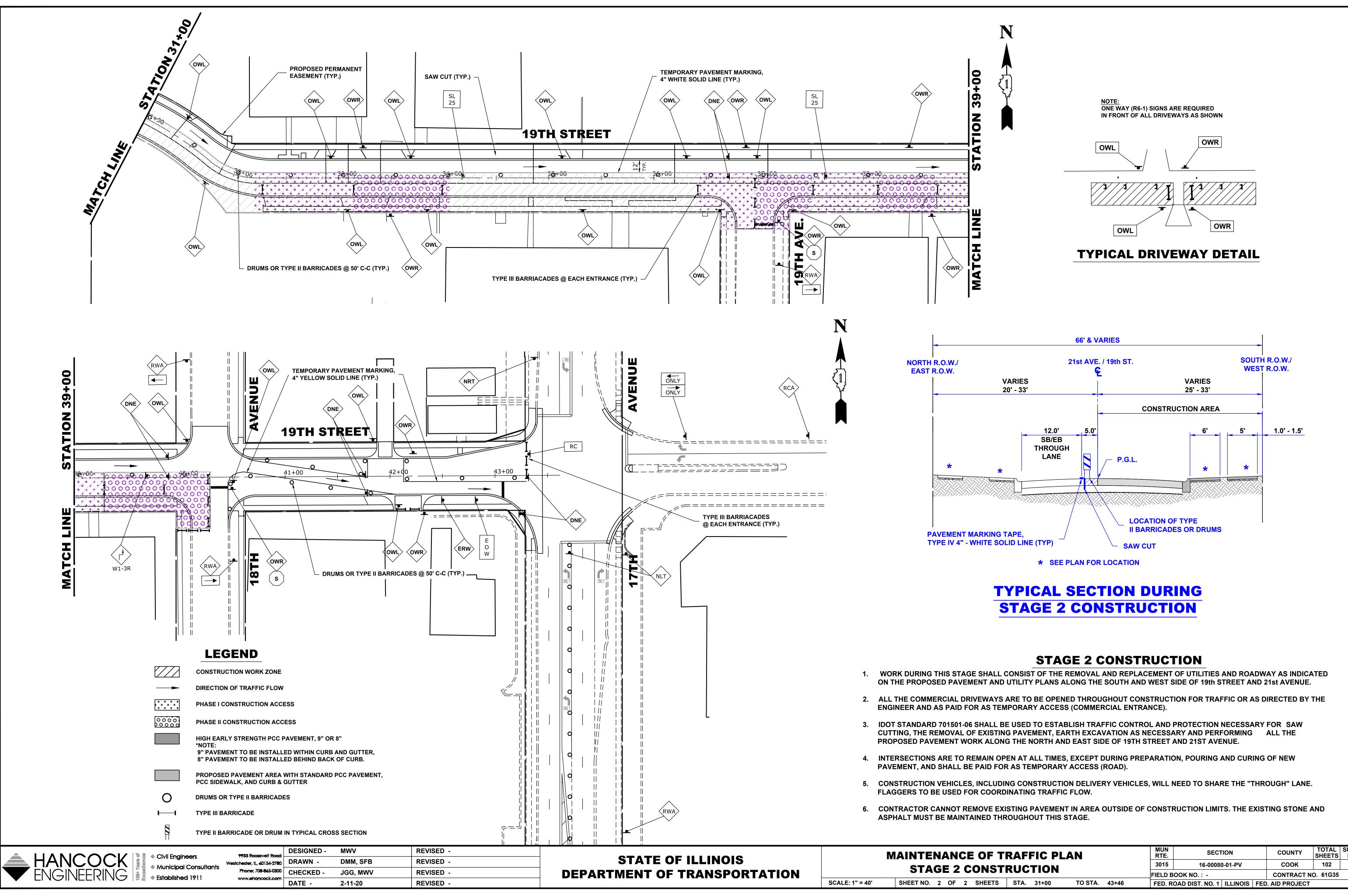
- NEW PAVEMENT, AND SHALL BE PAID FOR AS TEMPORARY ACCESS (ROAD).
- "THROUGH" LANE. FLAGGERS TO BE USED FOR COORDINATING TRAFFIC FLOW.
- STONE AND ASPHALT MUST BE MAINTAINED THROUGHOUT THIS STAGE.



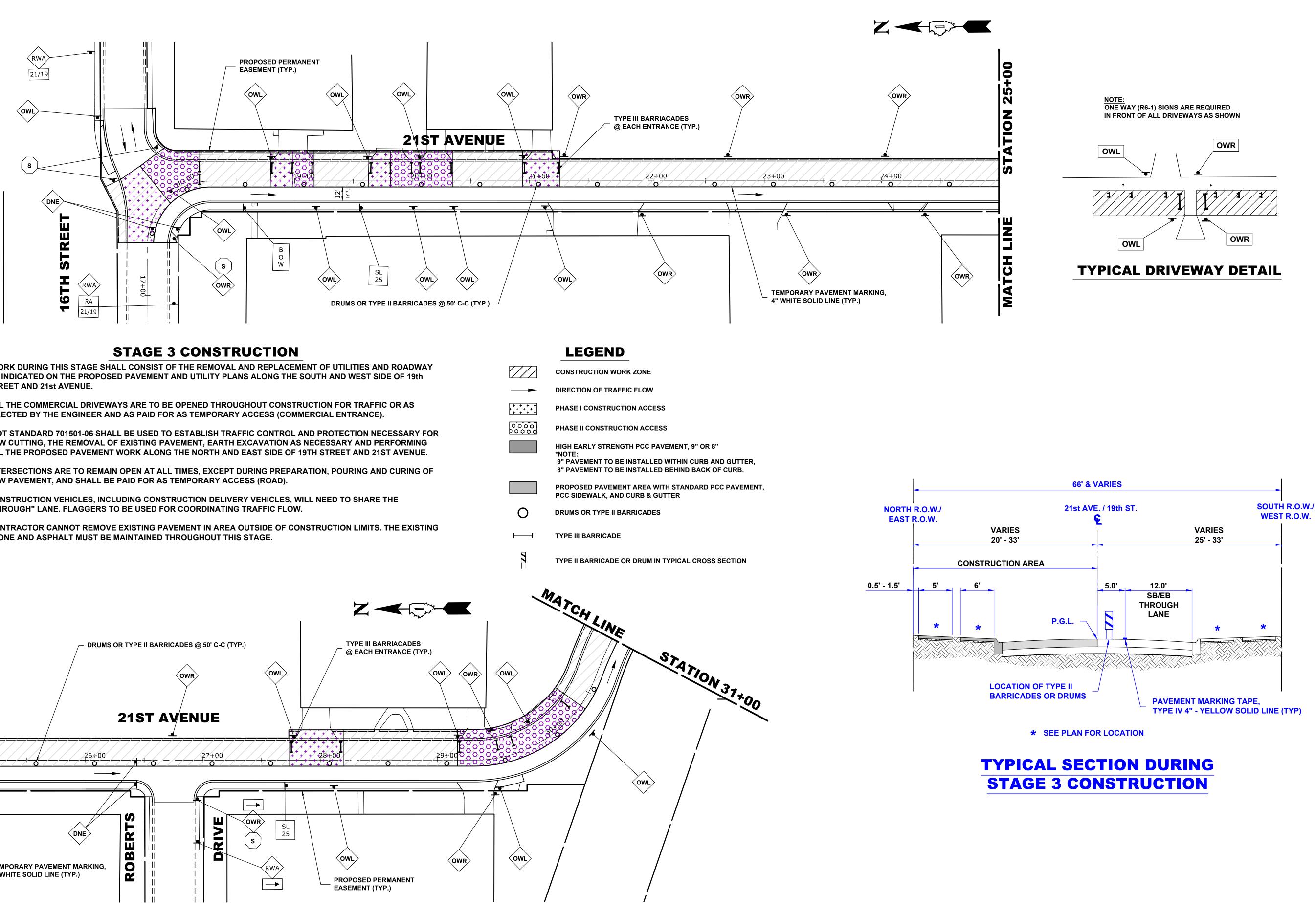
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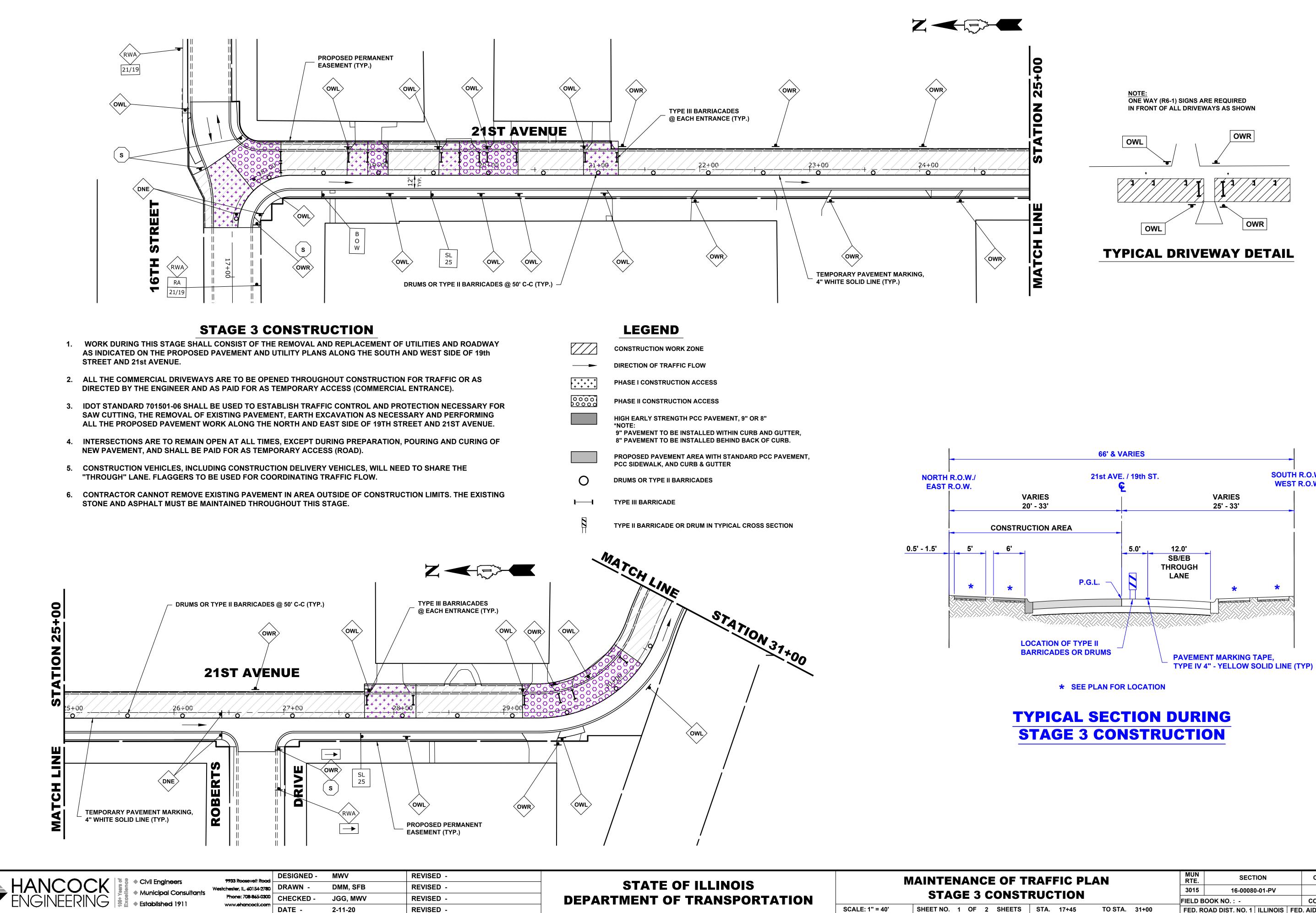
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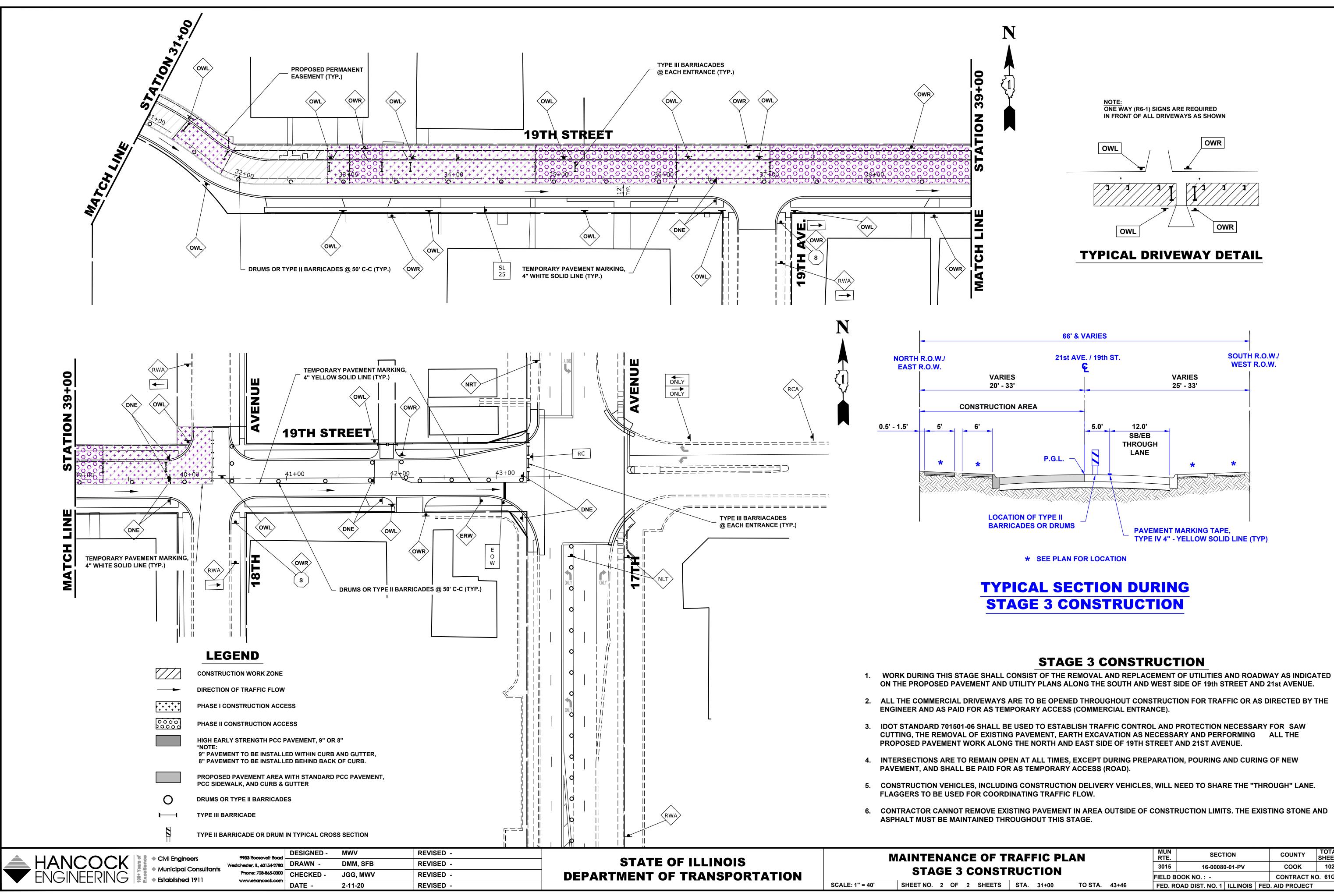
- STREET AND 21st AVENUE.
- DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (COMMERCIAL ENTRANCE).
- NEW PAVEMENT, AND SHALL BE PAID FOR AS TEMPORARY ACCESS (ROAD).
- "THROUGH" LANE. FLAGGERS TO BE USED FOR COORDINATING TRAFFIC FLOW.
- STONE AND ASPHALT MUST BE MAINTAINED THROUGHOUT THIS STAGE.



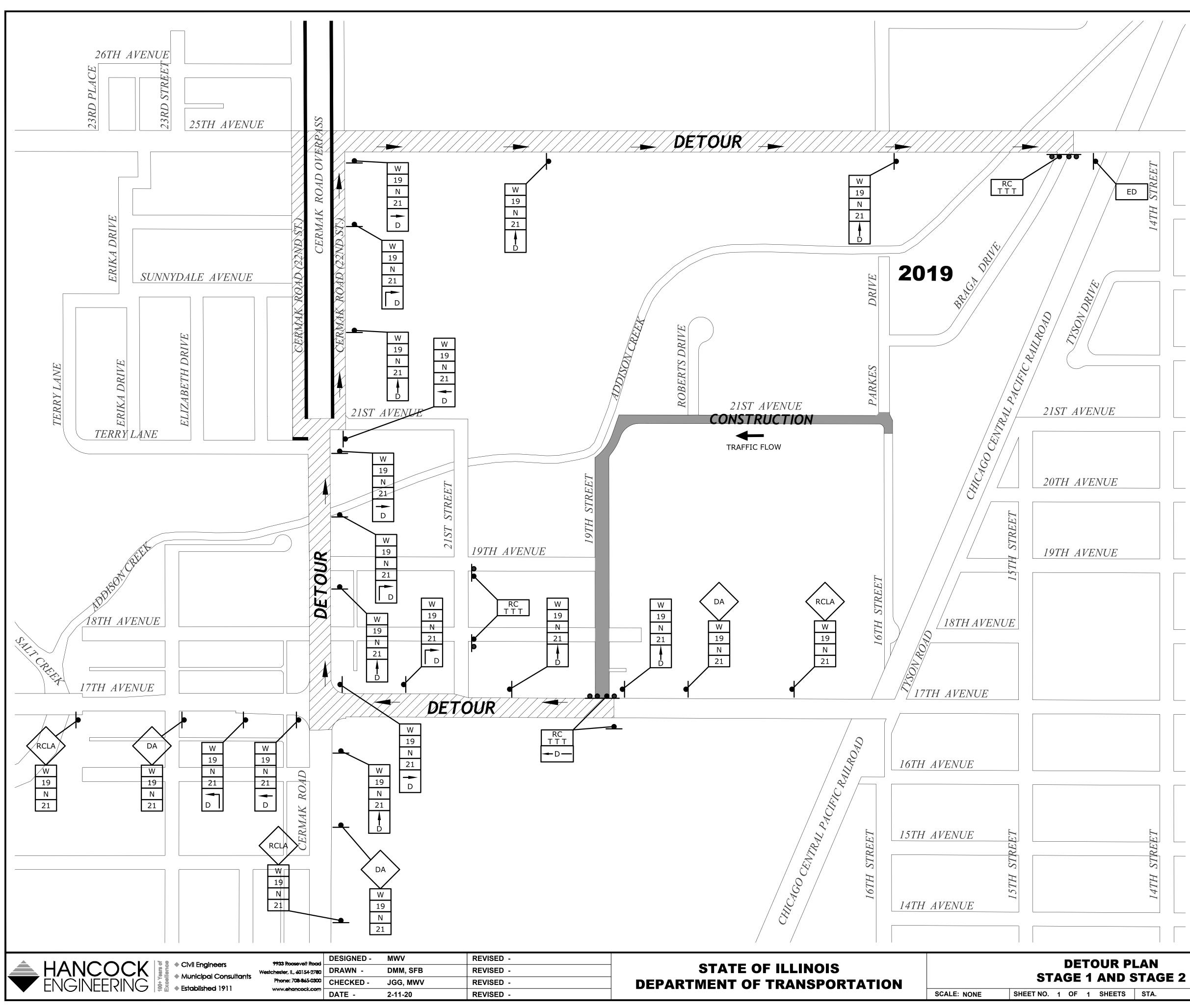
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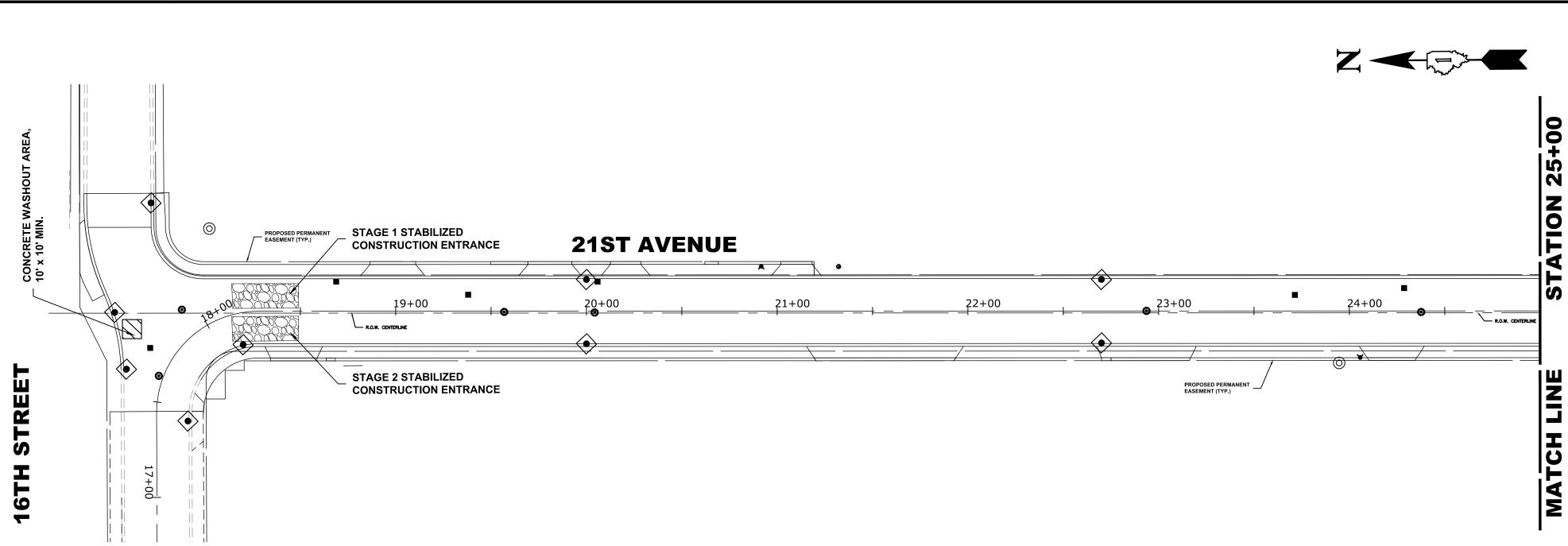
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	SYMBOL	DESCRIPTION	CODE & SIZE
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	DA	DETOUR AHEAD	W20-2 48"x48"
	W	WEST	M3-4(0) 24"X12"
	Ν	NORTH	M3-4(0) 24"X12"
	19	19th Street	M4-8 36"X12"
	21	21st Avenue	M4-8 36"X12"
	ED	END DETOUR	M4-8 24"x18"
	D		M4-9 30"x24"
	D		M4-9 30"x24"
	D		M4-9 30"x24"
			M4-9R 24"x30"
	D		M4-9L 24"x30"
	RC	ROAD CLOSED	R11-4 60"x30"
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 61G35



#### LEGEND

STABILIZED CONSTRUCTION ENTRANCE

INLET FILTERS

CONCRETE WASH-OUT AREA

#### **TENTATIVE SCHEDULE:**

SOIL EROSION MEASURES - INSTALLED BEFORE START OF CONSTRUCTION (WITH ONGOING MAINTENANCE THROUGH STABILIZATION)

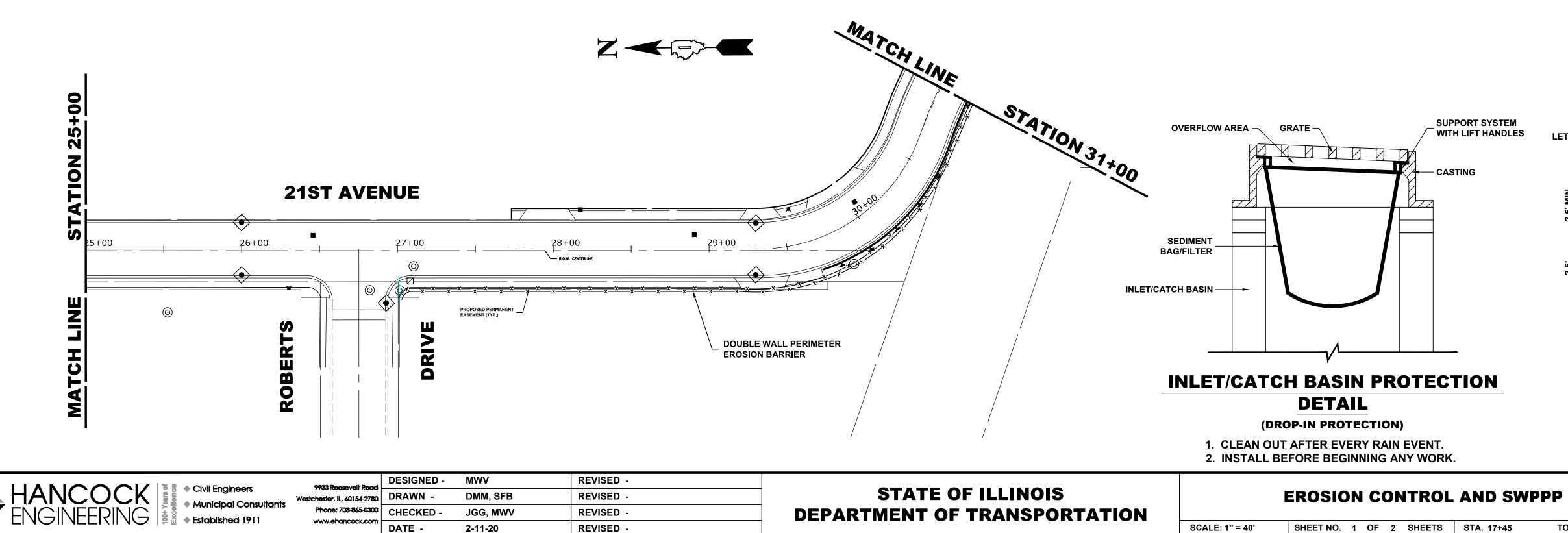
- STAGE 1 DEMOLITION AND PAVEMENT REMOVAL 4 WEEKS
- STAGE 1 UNDERGROUND UTILITIES 3 WEEKS
- STAGE 1 EARTHWORK AND GRADING 3 WEEKS

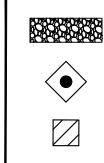
STAGE 1 PAVING AND FINAL RESTORATION - 4 WEEKS

#### **TENTATIVE SCHEDULE:**

SOIL EROSION MEASURES - INSTALLED BEFORE START OF CONSTRUCTION (WITH ONGOING MAINTENANCE THROUGH STABILIZATION)

- STAGE 2 DEMOLITION AND PAVEMENT REMOVAL 4 WEEKS
- STAGE 2 UNDERGROUND UTILITIES 3 WEEKS
- STAGE 2 EARTHWORK AND GRADING 3 WEEKS
- STAGE 2 PAVING AND FINAL RESTORATION 4 WEEKS

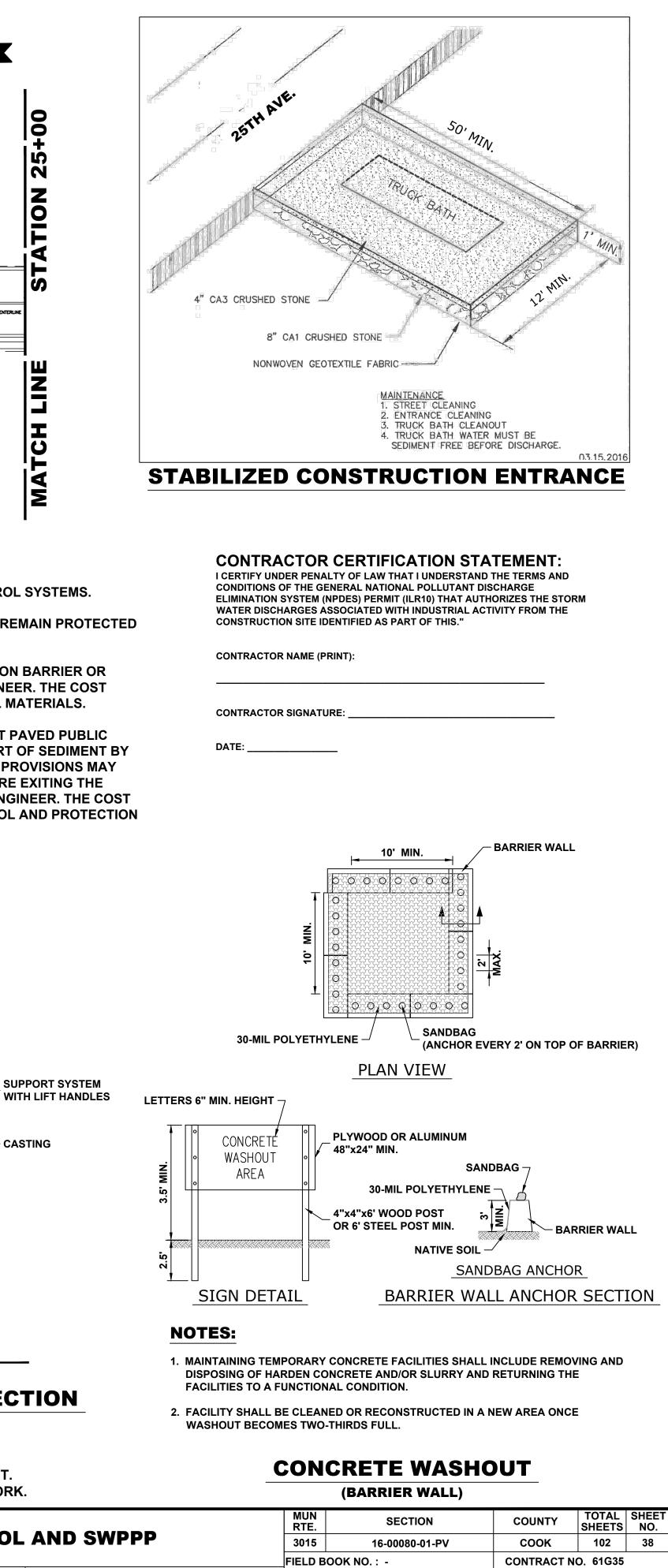




——X—— EROSION BARRIER

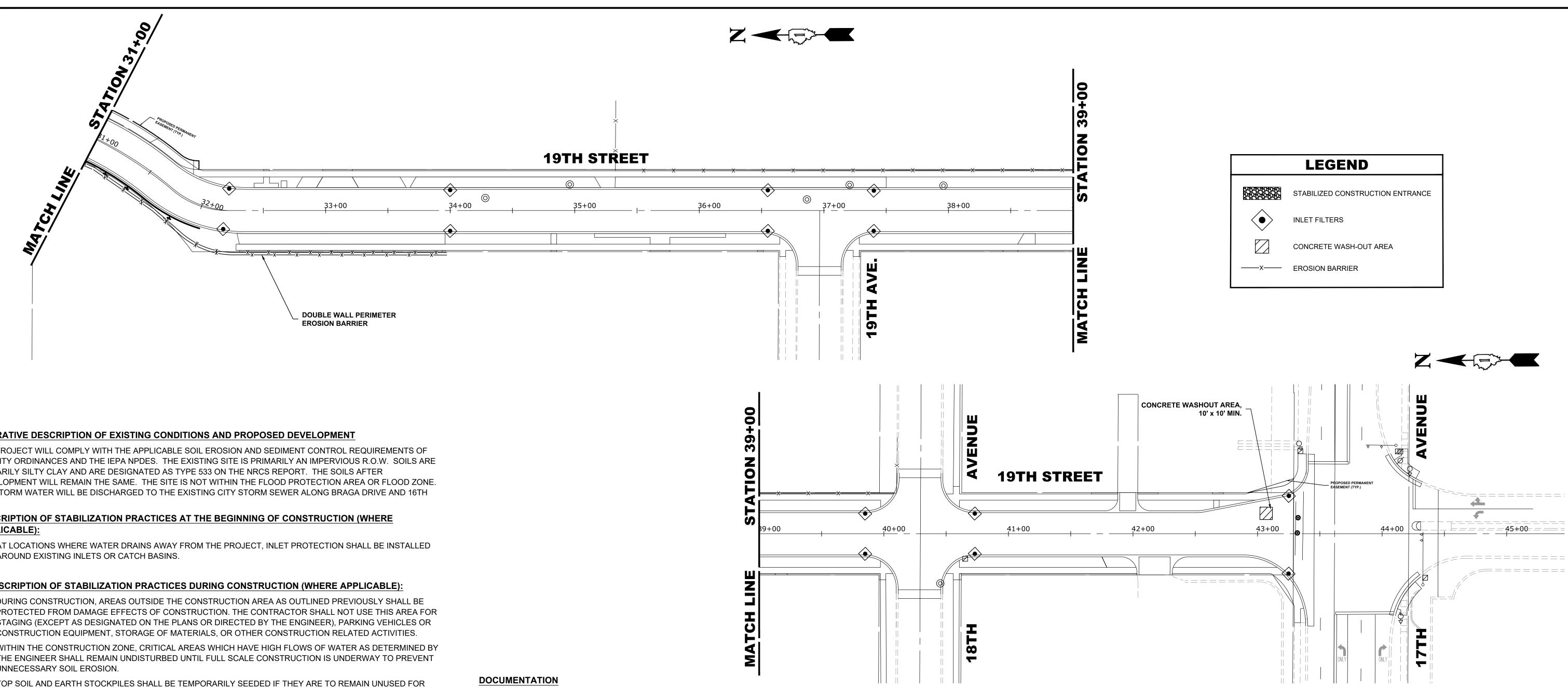
### NOTES

- 1. SEE IDOT STANDARD 280001-07 FOR TEMPORARY EROSION CONTROL SYSTEMS.
- 2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
- 3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
- 4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER. THE COST OF ABOVE WORK WILL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL)



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

TO STA. 31+00



#### NARRATIVE DESCRIPTION OF EXISTING CONDITIONS AND PROPOSED DEVELOPMENT

THE PROJECT WILL COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS OF ALL CITY ORDINANCES AND THE IEPA NPDES. THE EXISTING SITE IS PRIMARILY AN IMPERVIOUS R.O.W. SOILS ARE PRIMARILY SILTY CLAY AND ARE DESIGNATED AS TYPE 533 ON THE NRCS REPORT. THE SOILS AFTER DEVELOPMENT WILL REMAIN THE SAME. THE SITE IS NOT WITHIN THE FLOOD PROTECTION AREA OR FLOOD ZONE. ALL STORM WATER WILL BE DISCHARGED TO THE EXISTING CITY STORM SEWER ALONG BRAGA DRIVE AND 16TH ST.

#### DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION (WHERE APPLICABLE):

A) AT LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, INLET PROTECTION SHALL BE INSTALLED AROUND EXISTING INLETS OR CATCH BASINS.

#### **DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION (WHERE APPLICABLE):**

- ) DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION AREA AS OUTLINED PREVIOUSLY SHALL BE PROTECTED FROM DAMAGE EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESIGNATED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
- A) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE HIGH FLOWS OF WATER AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- B) TOP SOIL AND EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- C) AS THE CONTRACTOR CONSTRUCTS THE UNDERGROUND IMPROVEMENTS, THEY SHALL ADHERE TO THE FOLLOWING STEPS AS DIRECTED BY THE ENGINEER:
- I. PLACE TEMPORARY EROSION CONTROL SYSTEMS AT LOCATIONS WHERE WATER LEAVES AND ENTERS THE CONSTRUCTION ZONE.
- D) THE CONTRACTOR SHALL IMMEDIATELY FOLLOW MAJOR EARTH MOVING OPERATIONS WITH FINAL GRADING EQUIPMENT. AFTER MAJOR EARTH SPREAD OPERATION HAS MOVED TO A NEW LOCATION, FINAL GRADING SHALL BE COMPLETED WITHIN FOURTEEN DAYS. IF GRADING IS NOT COMPLETED WITHIN FOURTEEN DAYS, ALL MAJOR EARTH MOVING OPERATIONS WILL BE STOPPED, AS DIRECTED BY THE ENGINEER, UNTIL DISTRIBUTED AREAS ARE FINAL GRADED AND SEEDED.
- E) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED. IF NOT, THEY SHALL BE TEMPORARILY SEEDED AS STATED IN THE SPECIAL PROVISION "TEMPORARY EROSION CONTROL SEEDING"
- F) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- G) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING ACTIVITIES AND WEEKLY OR AFTER LARGE RAINS DURING THE WINTER SHUTDOWN PERIOD. THIS PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER CONTROL WORK IS NECESSARY.
- H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEM SHALL BE DISPOSED OF ON SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF MAINTENANCE IS INCIDENTAL TO THE CONTRACT.
- I) THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER IT'S USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING.

#### DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1) A REPORT SUMMARIZING THE SCOPE OF INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, DATE(S) OF THE SECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLANTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTION TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G. OF THE GENERAL PERMIT.

2) IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G. OF THE GENERAL PERMIT. THE REPORT ID NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF WATER POLLUTION CONTROL

COMPLIANCE ASSURANCE SECTION #19

POST OFFICE BOX 19276

SPRINGFIELD, IL 62794-9276

1) EXCAVATION AND REMOVAL OF EXISTING STRUCTURES AND PAVED SURFACES WILL BE COMPLETED AT LOCATIONS AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.

2) DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE EXCAVATION AND REMOVAL OF THE EXISTING STRUCTURES TO ALLOW FOR PROPER DRAINAGE OF THE SITE.

3) PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEANUP OF TEMPORARY EROSION CONTROL, SUCH AS EROSION CONTROL FENCE, HAY OR STRAW BALE DITCH CHECKS, INLET PROTECTION, AND TEMPORARY SEEDING AND MULCHING. 4) FINAL GRADING AND PLACEMENT OF PERMANENT EROSION CONTROL SEEDING AND MULCHING.

#### AREA OF DISTURBED GROUND

THE TOTAL AREA DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 3.59 ACRES THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEM AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT. ALL DISTURBED AREAS HAVING HIGH POTENTIAL FOR EROSION, AS DETERMINED BY THE ENGINEER, SHALL BE PERMANENTLY SEEDED AS SOON AS POSSIBLE.

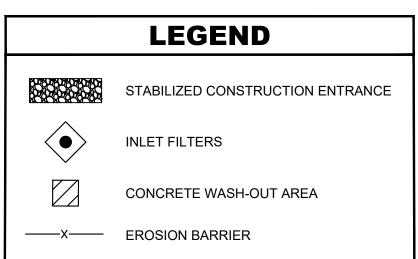
#### MAINTENANCE AFTER CONSTRUCTION (WHERE APPLICABLE):

- 2) AREAS WILL BE INSPECTED ON A REGULAR BASIS BY THE ENGINEER AND THE VILLAGE OF BROADVIEW.
- 3) MAINTENANCE CREWS WILL ALSO AID IN ANY DRAINAGE PROBLEMS.
- 4) ALL MAINTENANCE WILL BE CONDUCTED AT TIMES WHEN WEATHER CONDITIONS WILL NOT CAUSE SITE DAMAGE.
- 5) CONTRACTORS SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF IEPA NPDES PERMIT ILR 10. RESTORATION SHALL OCCUR WITHIN 7 DAYS OF DISTURBANCE.
- 6) CONTRACTORS SHALL SUBMIT INSPECTION REPORTS TO THE VILLAGE AT LEAST ONCE PER SEVEN DAYS AND AFTER RAINFALL EVENTS OF HALF INCH (OR EQUIVALENT SNOW FALL).
- 7) THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE SWPPP ON SITE AT ALL TIMES.
- 8) TECHNIQUES SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.
- 9) DAILY REMOVAL OF SEDIMENT AND DEBRIS FROM THE STREET SHALL BE REQUIRED OF THE CONTRACTOR.

### **EROSION CONTROL A**

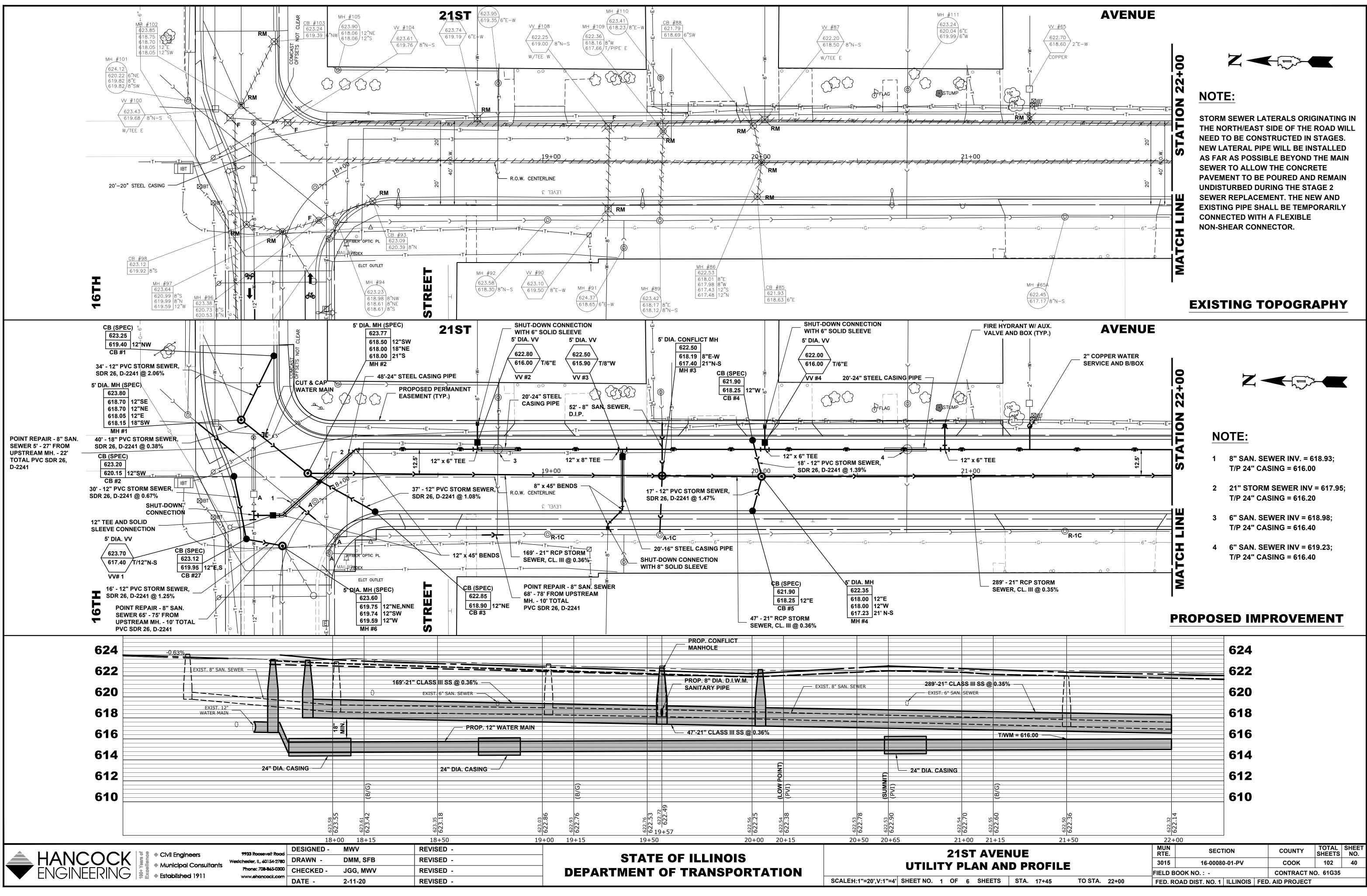
### **STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

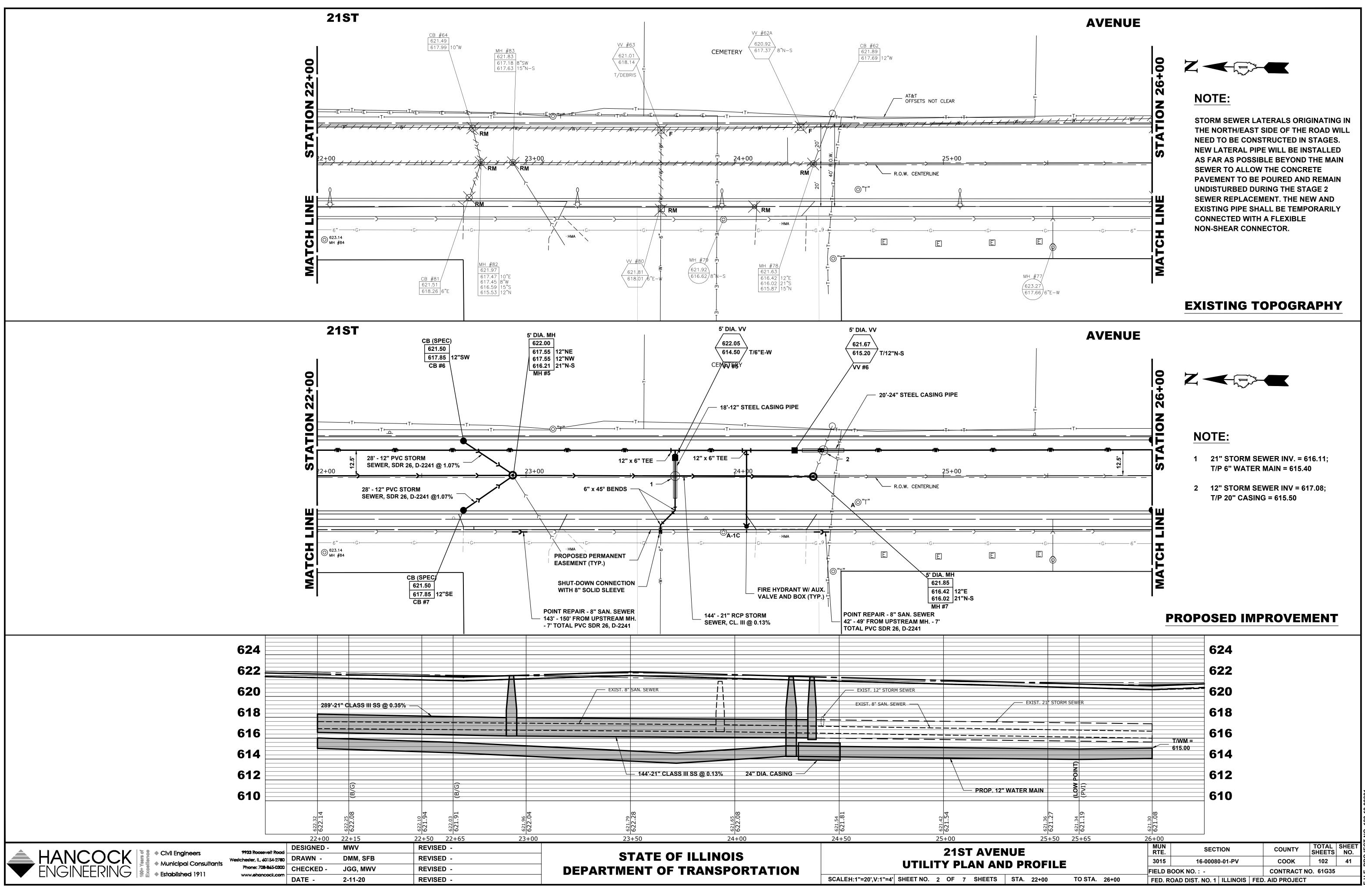
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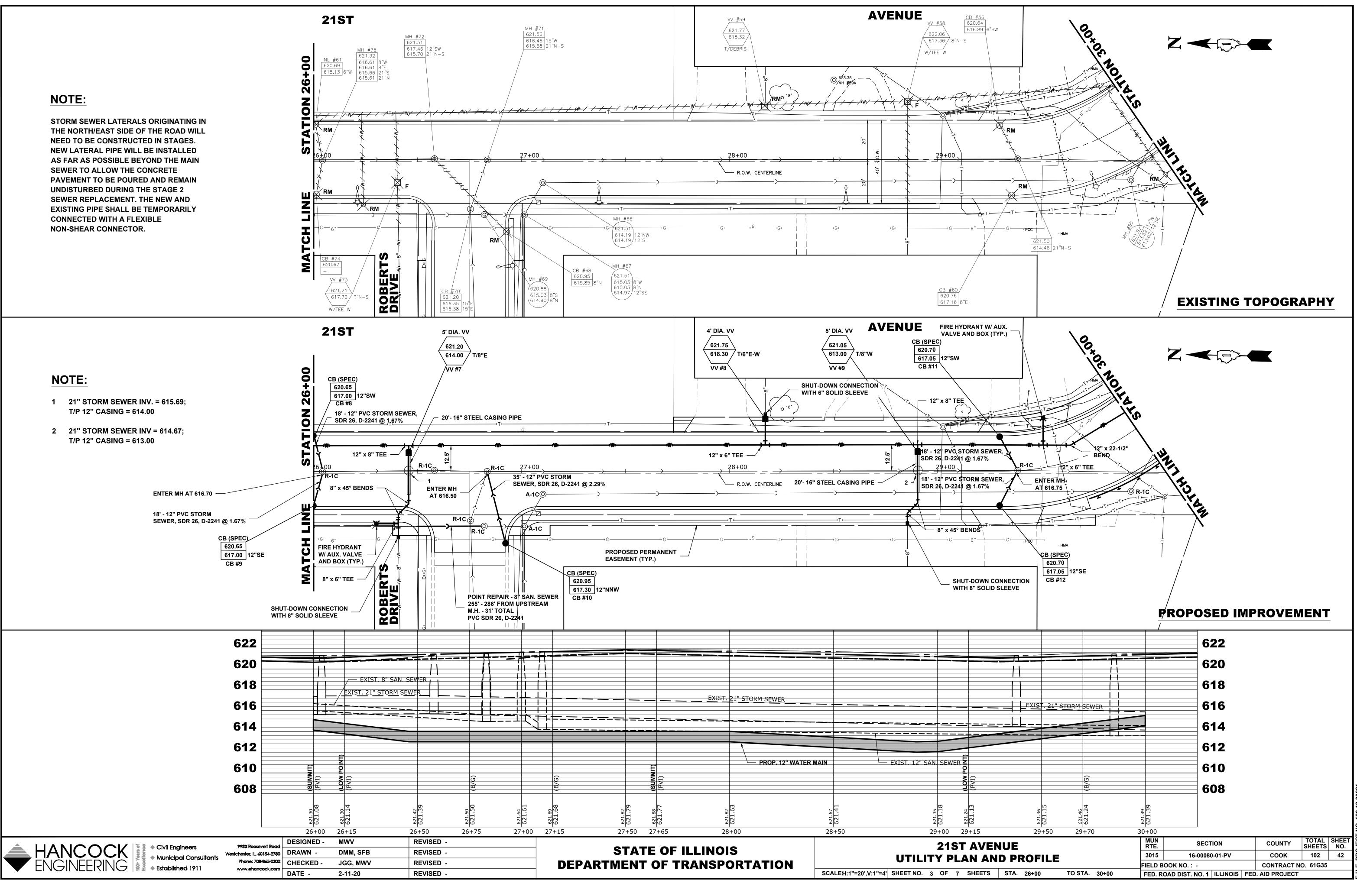


1) CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION.

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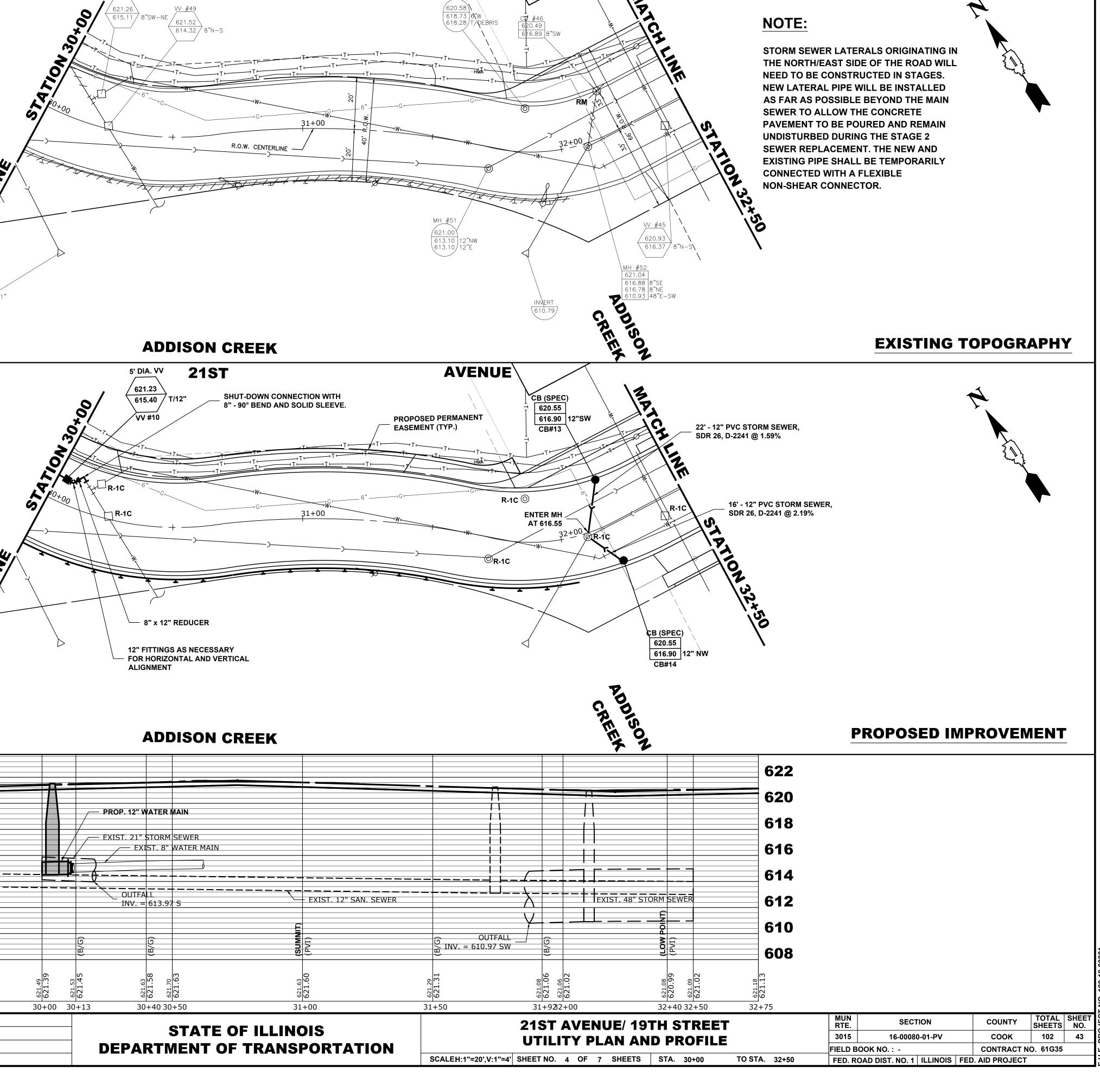
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I Engineers hicipal Consultants blished 1911 Phone: 708-865-0300 www.ehancock.com	DRAWN - DMM, SFB	REVISED - REVISED - REVISED - REVISED -

DATE

2-11-20

**REVISED** -



AVENUE

MH #47

**21ST** 

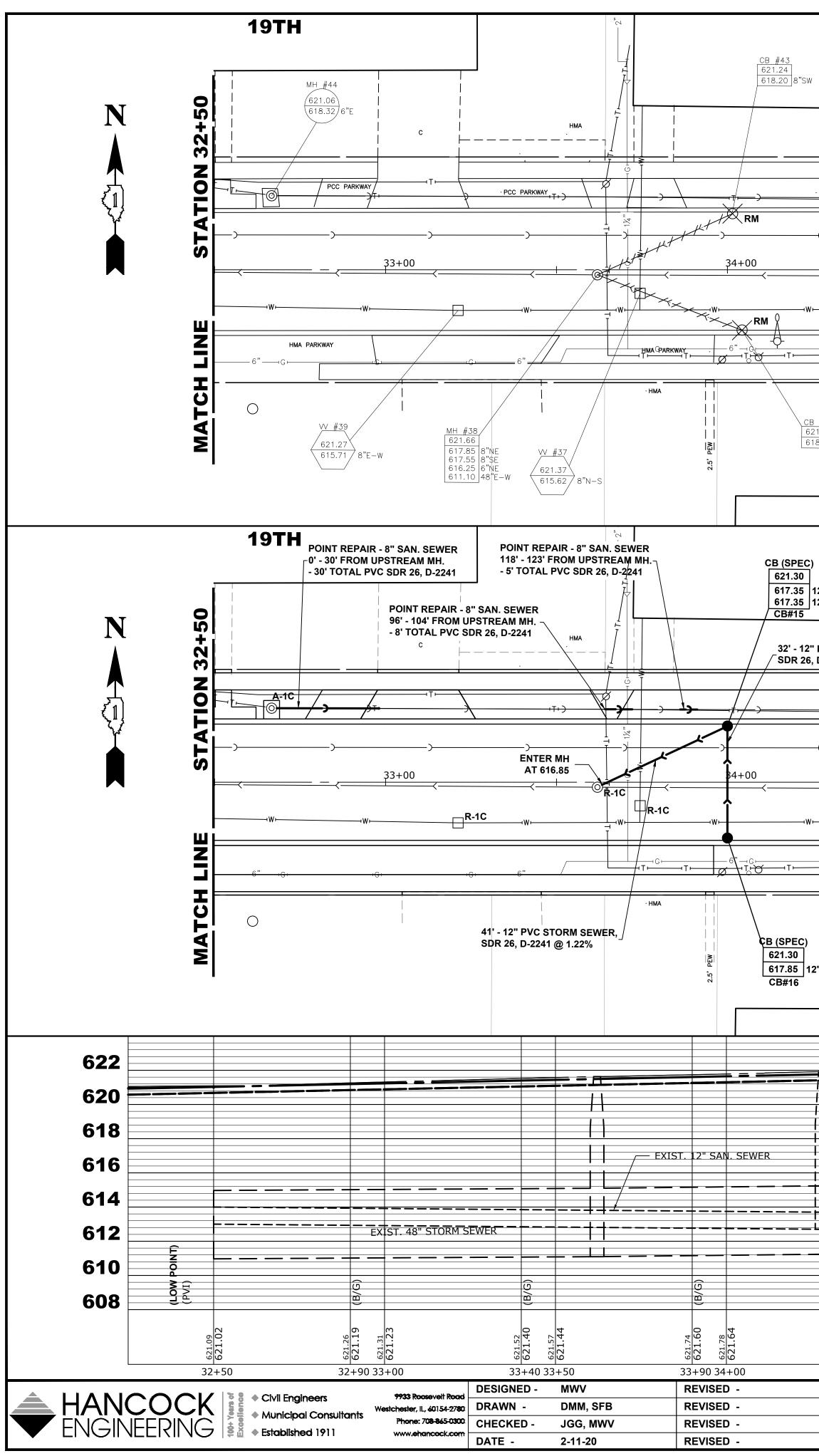
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### NOTE:

13







		R.O.W. CENTERLINE	35+00 v			36+00	
			33. 66. R.(		~		
+WF+WF+							
T T T T	G		- 6"	Ø		I G H	
CB #36 621.35 618.27 T/H20			.76			CB #31 622.32 618.08 8"NE	W #32 622.64 616.86 8"E-W W #33 616.94 8"N-S
		AIR - 8" SAN. SE	WED				35'
SPEC) 1.30 7.35 12"S 7.35 12"SW	174' - 192' F - 18' TOTAL	ROM UPSTREA PVC SDR 26, D POINT REPAIR 207' - 217' FRO	М МН.	POINT REP -0' - 6' FROM PVC SDR 2	PAIR - 8" SAN. SEWE I UPSTREAM MH ( 6, D-2241	R 6' TOTAL	CB (SPEC) 622.35 618.50 12"S
#15 			/	1FT WALL NORTH		R - 8" SAN. SEWER // UPSTREAM MH 11' TO D-2241 <u>x x x x x x x x x x x x x x x x x x x </u>	618.50 12"SE / POI
<b>``</b>			R-1C		~ ~ ~	<u> </u>	
A-1C					1C	<u></u> T	
())	)	)	35+00		))	) 36+00	,,,,,,,
	~~~~~				~	<	C STORM SEWER,
	R-1C	⊣w⊢ }					
Ţ┝━━━━┥Ţ┝━━━━┥Ţ┝━━━━┥Ţŀ	<u> </u>	<u> </u>	- 6"	Ø	- G	-	
PEC) 30 85 12"N 16							CB (SPEC) 622.35 618.90 CB#18
						EXIST.	12" SAN. SEWER
			EXIST. 48" ST	ORM SEWER		/	
			·				
	·						
	(B/G)	(B/G)					
621.85 621.85 621.82	6221.06 621.89	8025.02 622.03 86+56	622:00 622:00 00+2	+ 522.32		622.47 622.47 00+96	622.68 622.68 622.73 622.64 622.73 622.64
		STA	TE OF ILLI F OF TRAN	NOIS		SCALEH:1"=20',V:1"=	19TH STR UTILITY PLAN AN

MH #41

622.09 617.57 617.69 6"SW

<u>0) — т </u>

MH_**#**40

621.92 617.92 8"N-S

MH #29 623.05 616.54 8"NW 619.94 8"SW 611.94 48"E 611.79 48"W

SAN RUN THROW MH T/PIPE=618.49

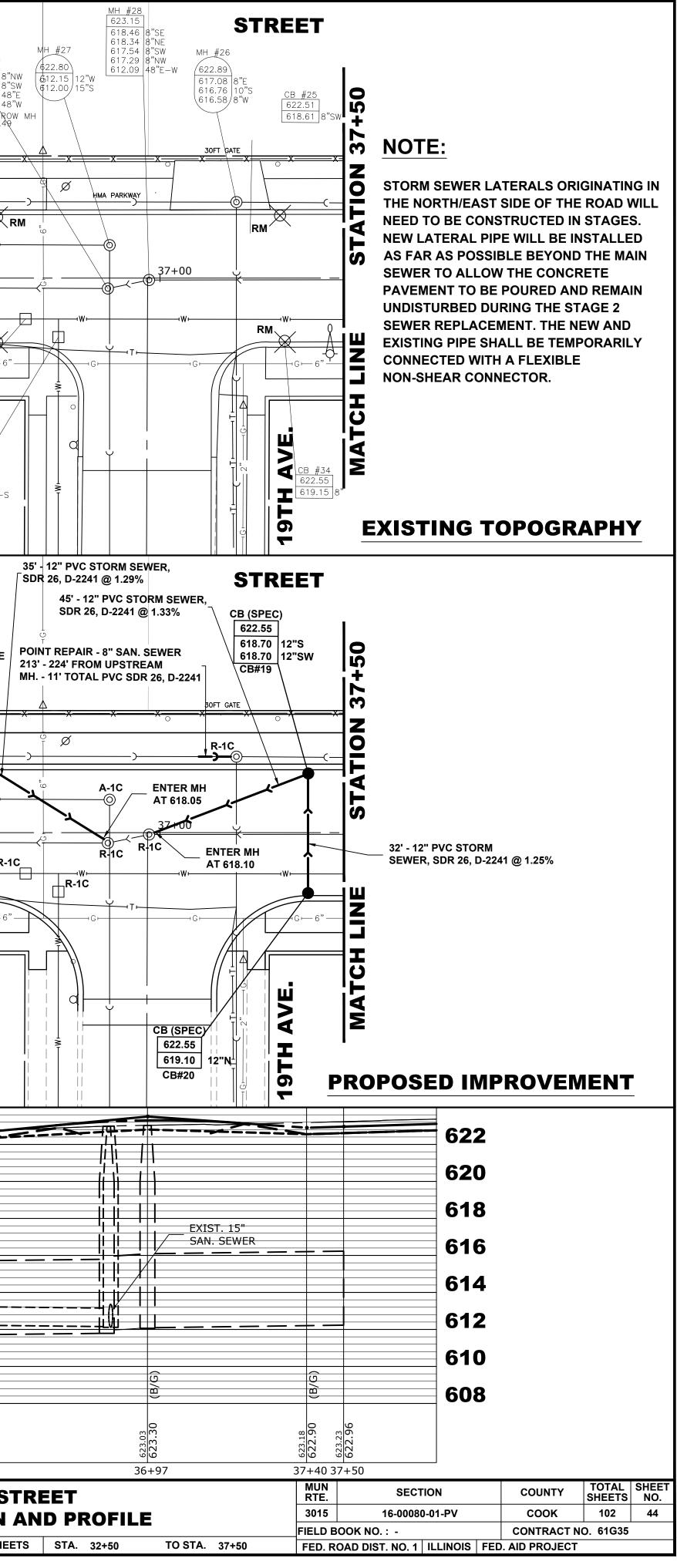
X RM

CB #30 622.20 617.85 8"NE

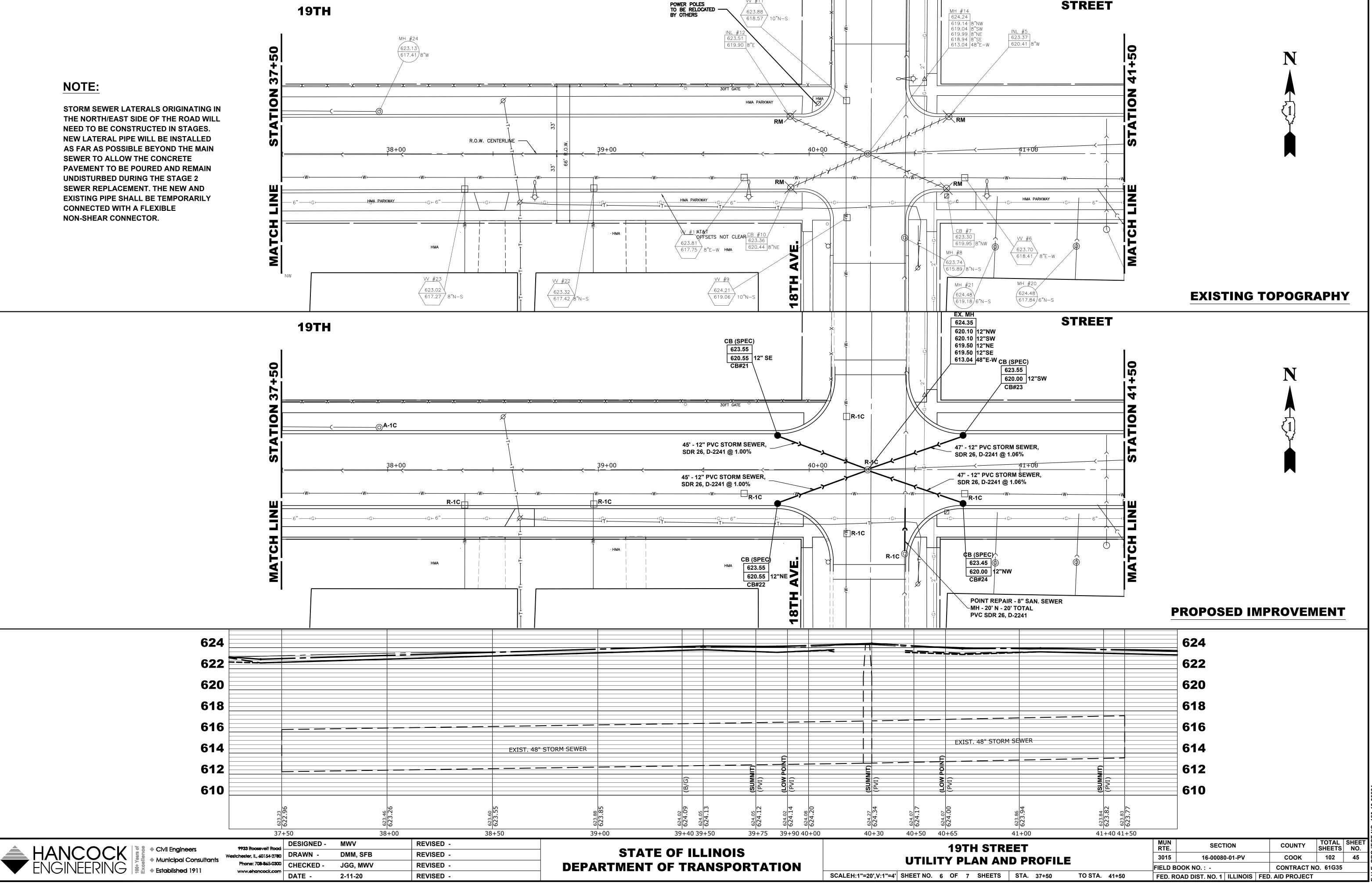
MH #42

HMA PÁRKWAY

621.21 612.70 12"E-W

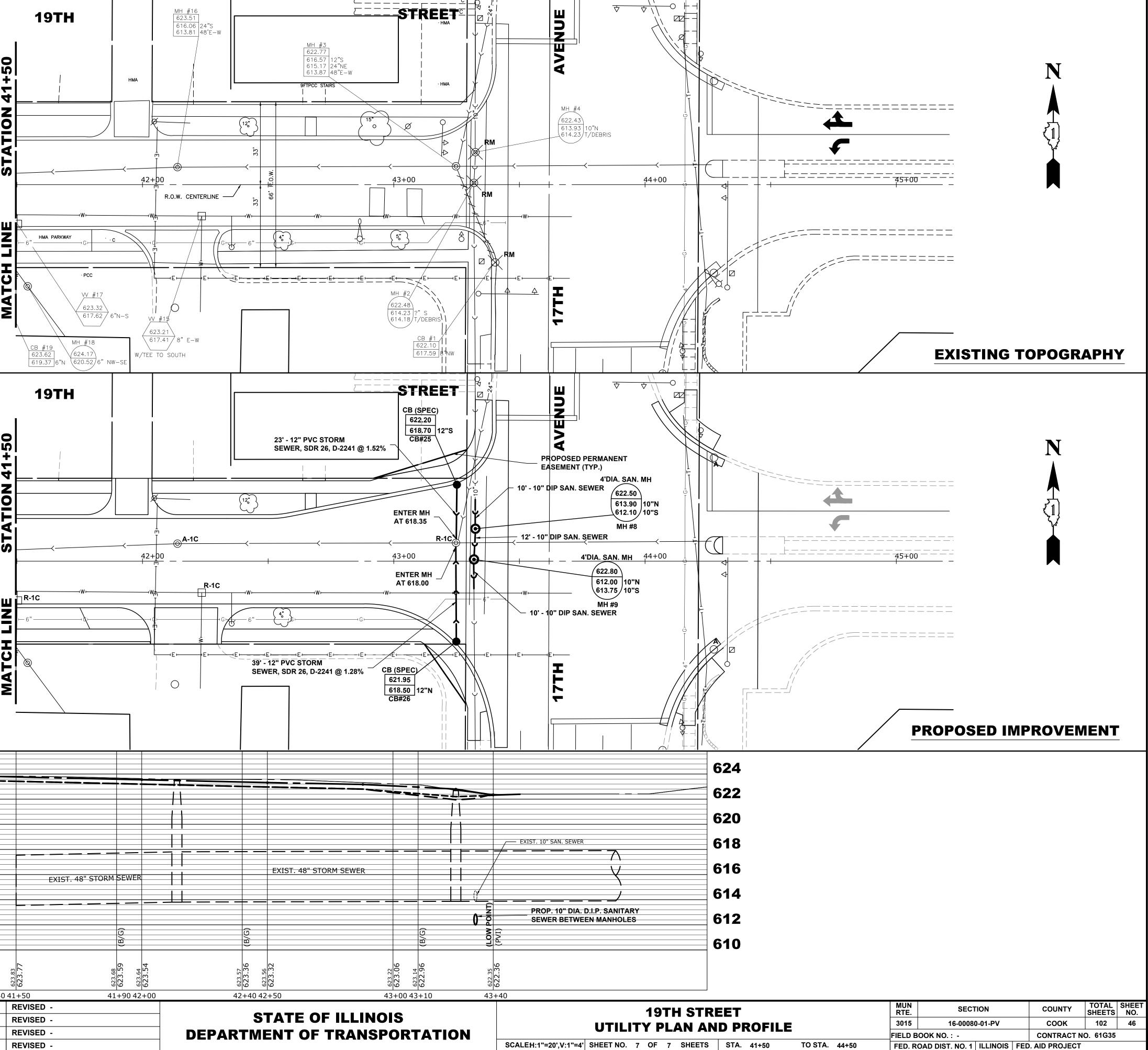




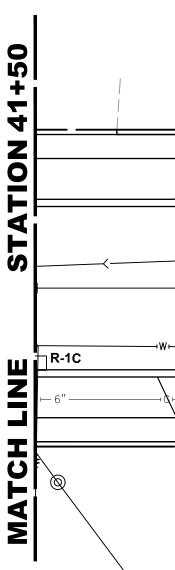


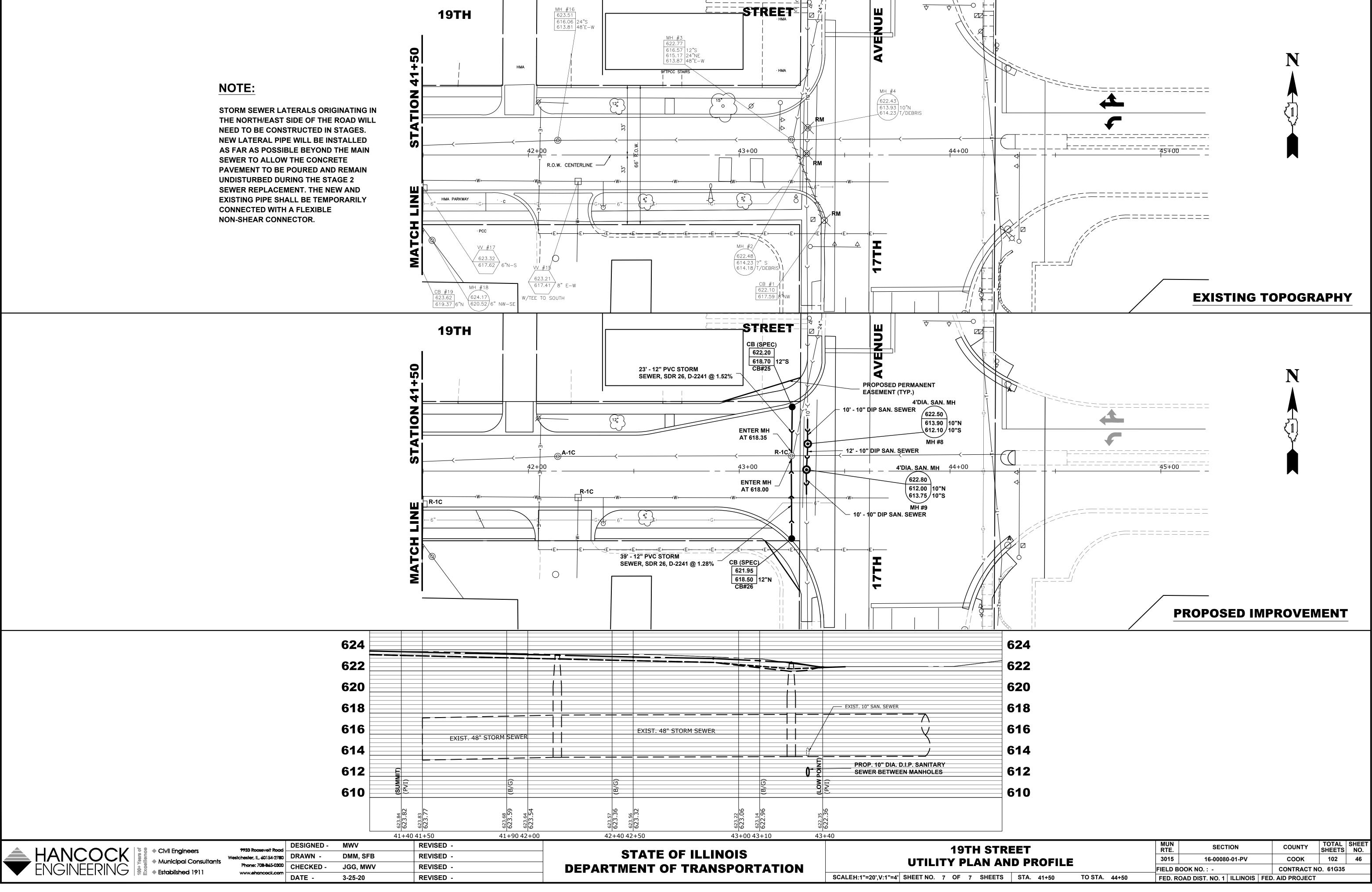


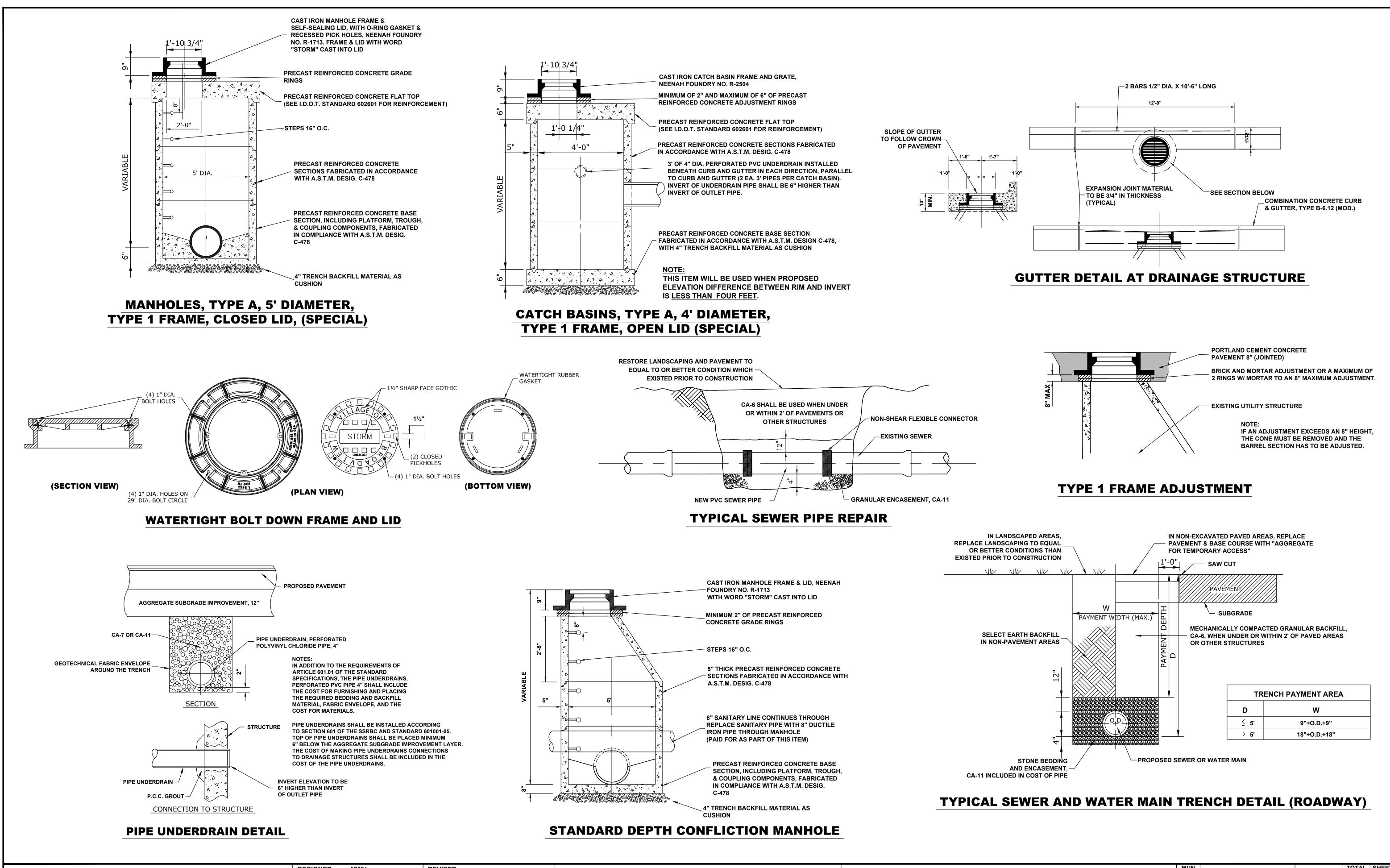












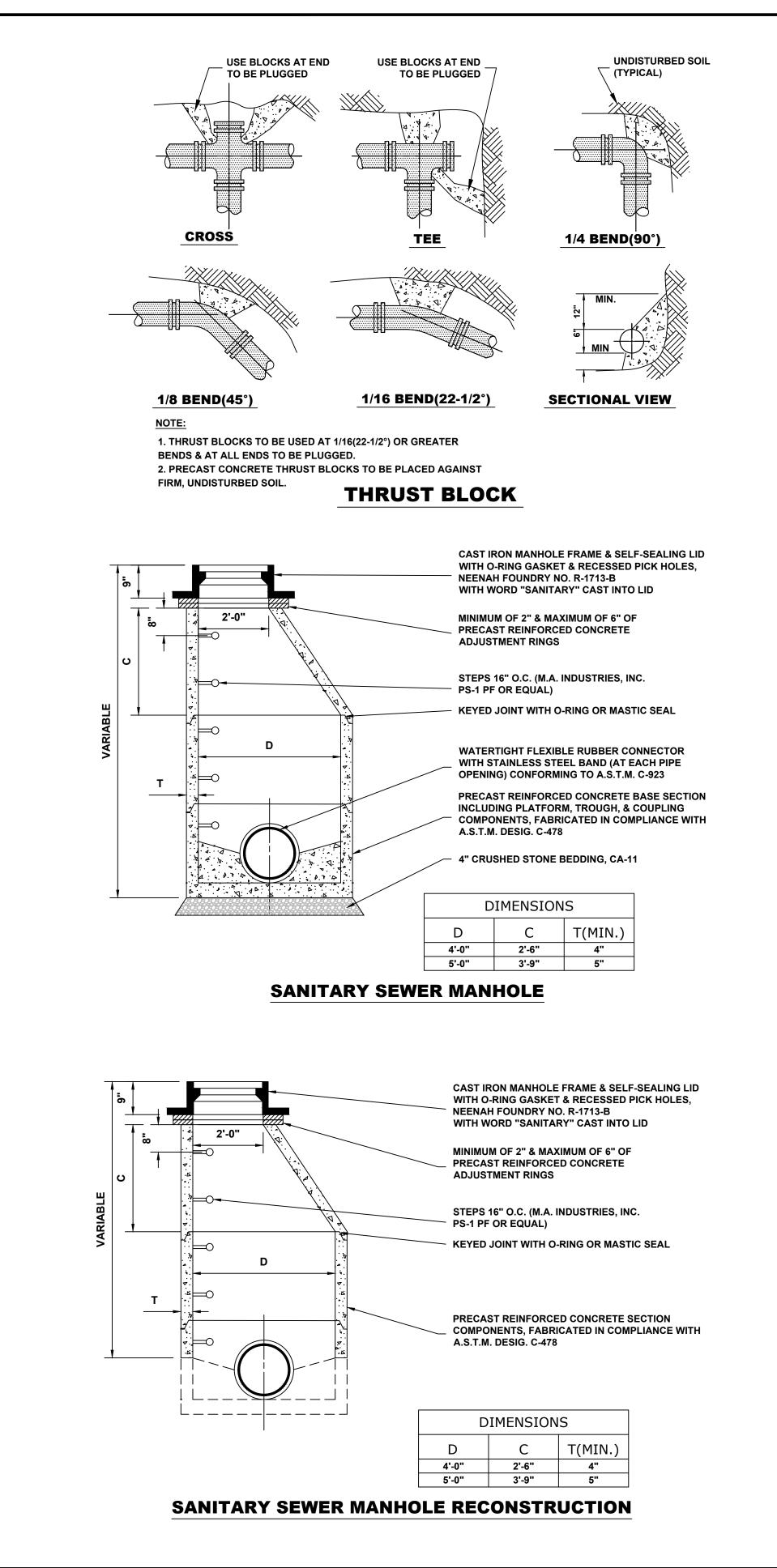
MWV **REVISED** -**DESIGNED** -9933 Roosevelt Road Civil Engineers **REVISED** -DRAWN DMM, SFB Municipal Consultants Westchester, IL, 60154-2780 Phone: 708-865-0300 CHECKED JGG, MWV **REVISED** -Established 1911 www.ehancock.com DATE 3-19-20 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITI

SHEET NO. 1 OF 2 SHEETS

IES DETAILS		MUN RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	Ċ
		3015	16-00080)-01-PV		СООК	102	47	
		FIELD B	OOK NO. : -			CONTRACT NO	D. 61G35		ľ
STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED	. AID PROJECT			
									•



		9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
HANCOCK	 Civil Engineers Municipal Consultants 	Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DRAWN -	DMM, SFB	REVISED -
	 Municipal Consultants Established 1911 		CHECKED -	JGG, MWV	REVISED -
			DATE -	2-11-20	REVISED -

STA
DEPARTMEN [®]

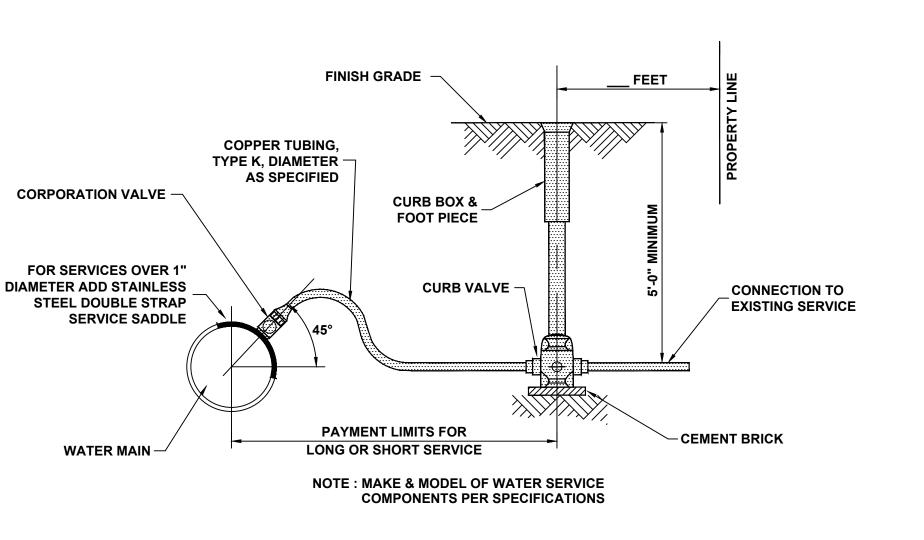
TE OF ILLINOIS IT OF TRANSPORTATION

DRAINAGE AND UTILITI

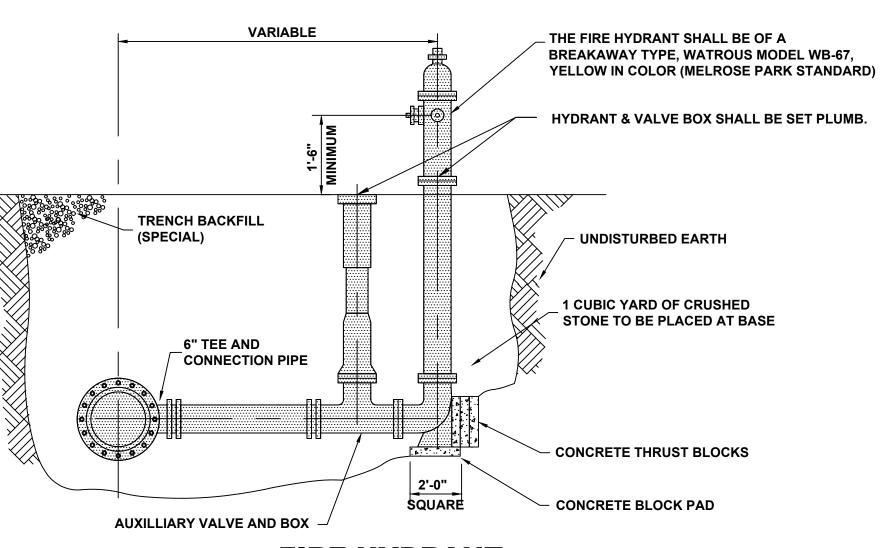
SCALE: NONE

SHEET NO. 2 OF 2 SHEETS

WATER SERVICE

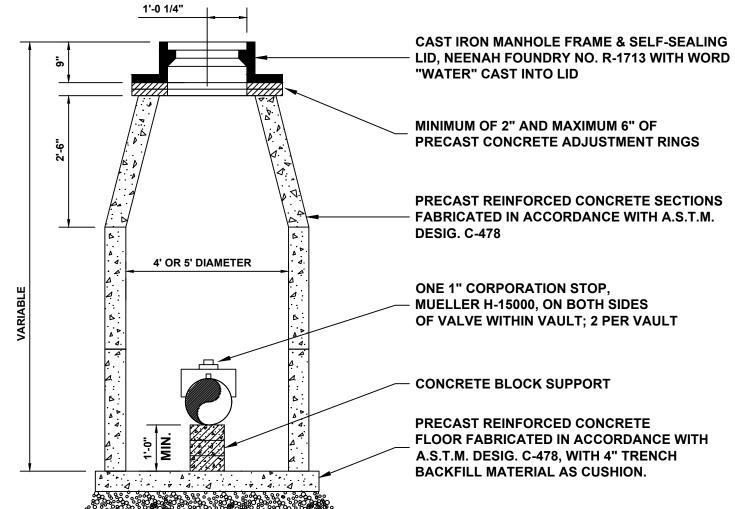








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OF VALVE WITHIN VAULT; 2 PER VAULT CONCRETE BLOCK SUPPORT

PRECAST REINFORCED CONCRETE FLOOR FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478, WITH 4" TRENCH **BACKFILL MATERIAL AS CUSHION.**

COORDINATION OF ALL UTILITY WORK INVOLVED WITHIN THE CONSTRUCTION AREAS SHALL BE SUBJECT TO **DISCUSSION AND CLARIFICATION AT A PRECONSTRUCTION MEETING.**

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL BE PAID FOR AS **TEMPORARY DRAINAGE CONNECTIONS.**

IF, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF PROPOSED ITEMS BEING CONSTRUCTED.

ALL COSTS INVOLVED IN CONNECTING PROPOSED STORM SEWERS AND STORM STRUCTURES TO EXISTING STORM SEWERS OR PROPOSED STORM SEWERS SHALL BE CONSIDERED INCLUDED IN THE COST OF PROPOSED ITEMS BEING CONSTRUCTED.

ALL PROPOSED WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", SEVENTH EDITION, DATED 2014, AND ALL REVISIONS THERETO.

THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

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 BROADVIEW AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROADVIEW PUBLIC WORKS YARD.

ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR **REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.**

SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

TYPE OF PIPE

REINFORCED CONCRETE PIF POLYVINYLCHLORIDE PIPE, **DUCTILE IRON PIPE, CLASS 5**

- 2.
- 3.

DRAINAGE AND UTILITIES NOTES

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

MATERIAL STANDARD JOINT STANDARD

PE	ASTM C-76	ASTM C-443
SDR 26	ASTM D-2241	ASTM D-3139
52	ASTM A-21.51	ASTM A-21.11

DUCTILE IRON PIPE SPECIFICATIONS

ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11. WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, MECHANICAL JOINTS AND "LOCK-TYPE" JOINTS SHALL BE USED IN LIEU OF "PUSH-ON" JOINTS.

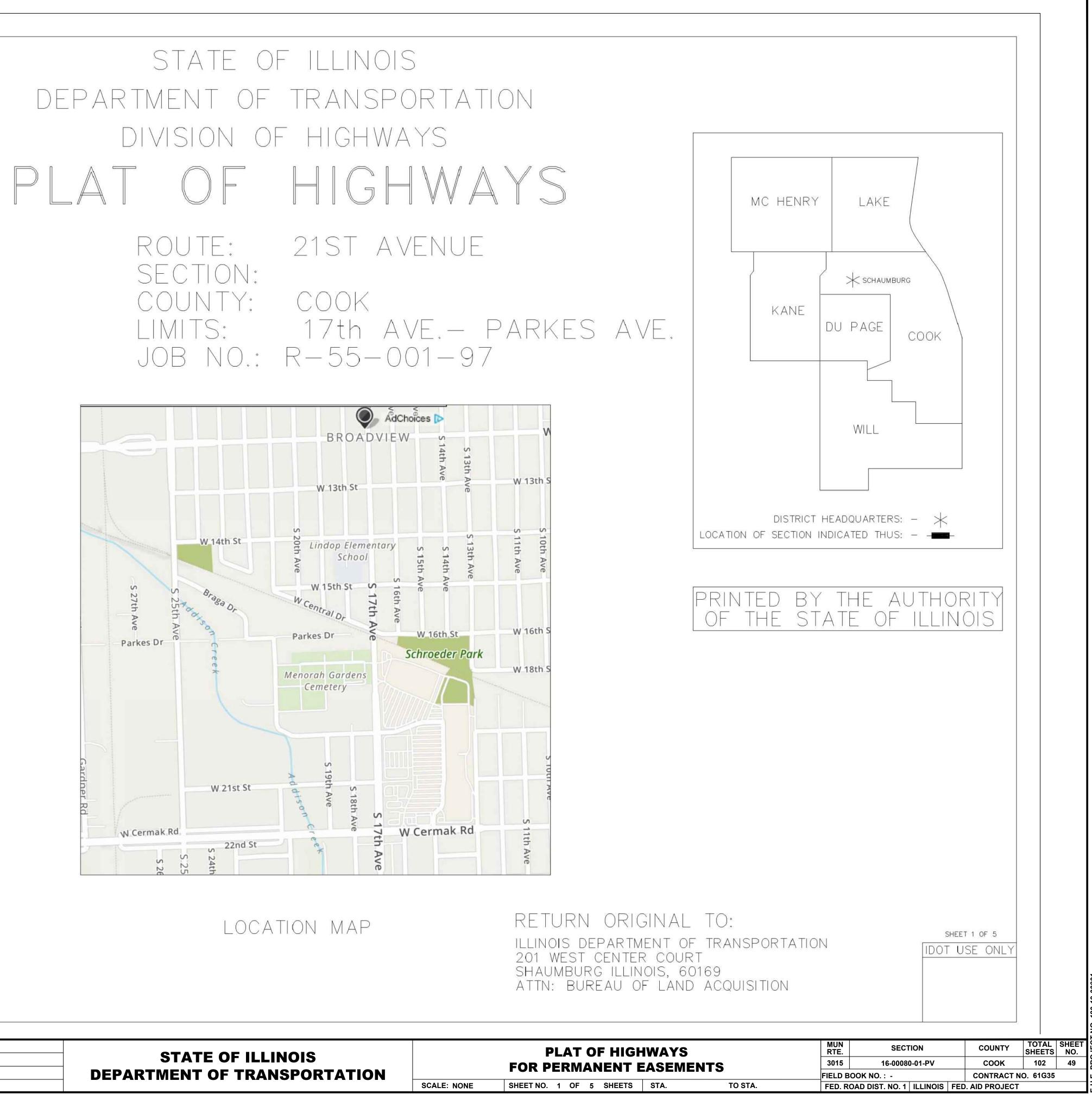
ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 AND ANSI/AWWA C111/A21.11 SPECIFICATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS 150 DUCTILE IRON PIPE. IF CERTAIN FITTINGS ARE NOT MANUFACTURED IN DUCTILE IRON, CAST IRON FITTINGS SHALL BE ACCEPTABLE. MECHANICAL JOINT TYPE FITTINGS SHALL BE USED.

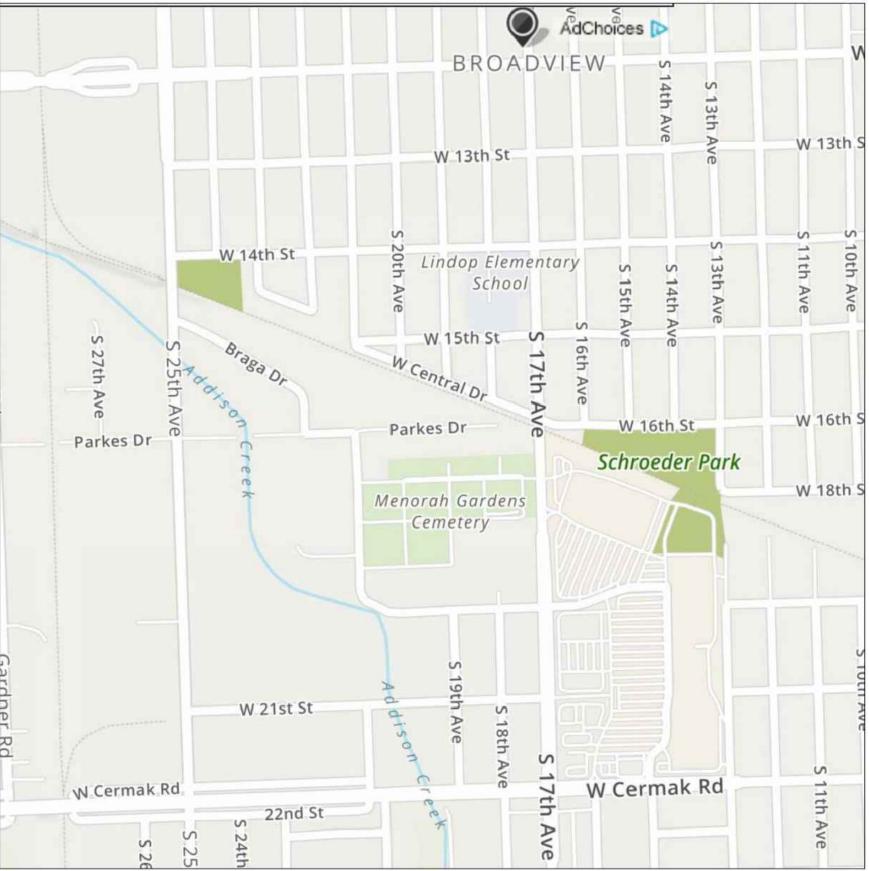
ALL PROPOSED DUCTILE IRON PIPE WATER MAIN AND SEWER MAIN WILL BE ENCASED WITHIN SIX (6) MIL THICK, HIGH-DENSITY POLYETHYLENE TUBING. ALL FITTINGS SHALL BE ENCASED IN A DOUBLE-LAYER OF POLYETHYLENE TUBING. THE POLYETHYLENE MATERIAL SHALL BE MANUFACTURED AND INSTALLED IN COMPLIANCE WITH ANSI/AWWA C105/A21.5.

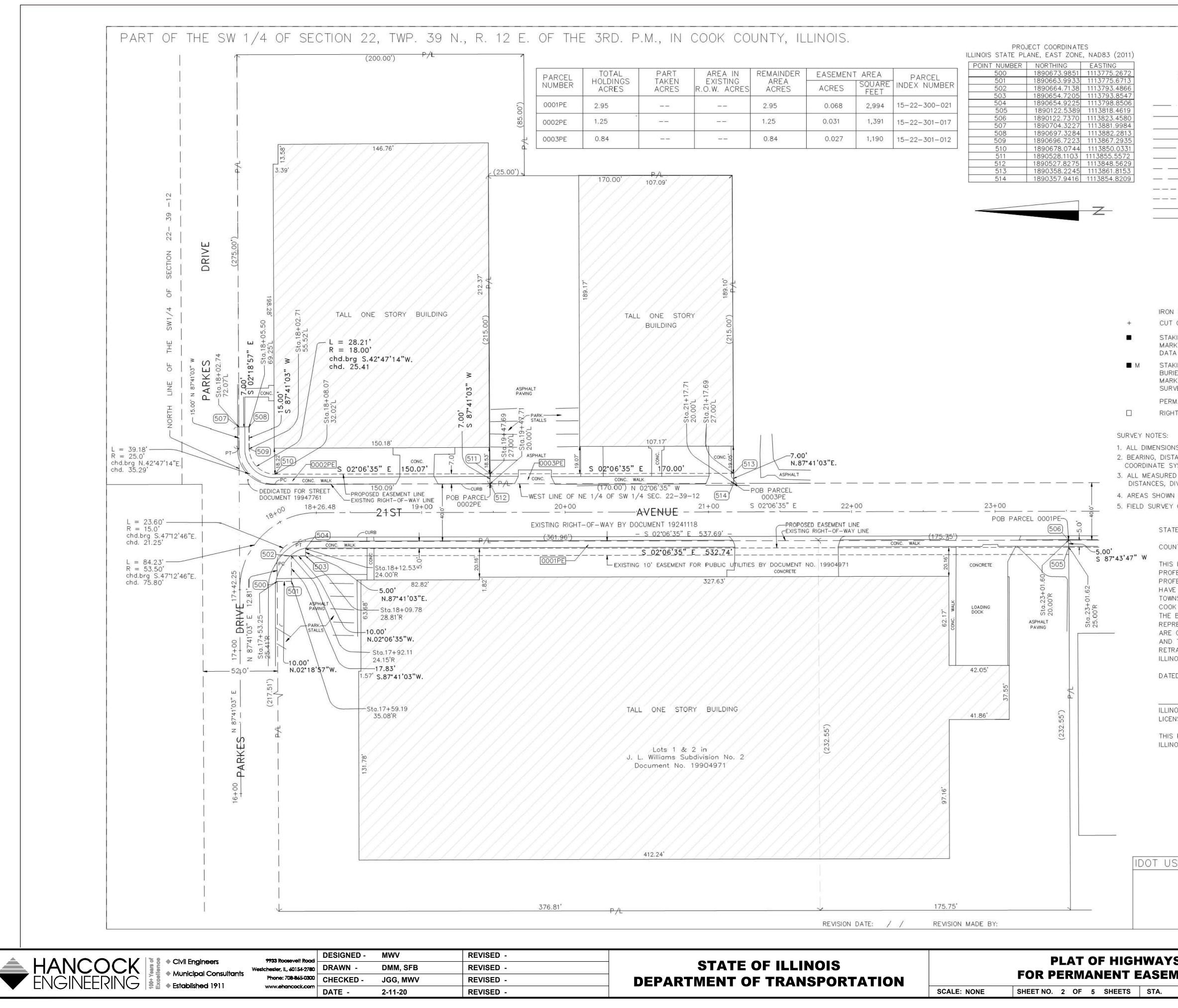
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IES DETAILS		MUN RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		3015 16-00080-01-PV			СООК	102	48	
		FIELD B	OOK NO. : -			CONTRACT NO). 61G35	
STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED.	AID PROJECT		

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001	CENTRAL STEEL FABRICATORS, INC	2	
0002	CHICAGO DRY LL, LLC	2	
0003	CTI PROPERTY MANAGEMENT, LLC	2	
0004	HLS HOLDINGS, INC	3	
0005	WILLIAMS COMMUNICATIONS, INC	3	
0006	ORBAN HOLDINGS, LLC	4	
0007	ECS REALTY, LLC	4	
0008	MAYWOOD PROVISO STATE BANK	5	
0009	SCHIFF ENTERPRISES	5	

933 Roosevelt Road	MWV	REVISED -
nester, IL, 60154-2780 DRAWN -	DMM, SFB	REVISED -
Phone: 708-865-0300 CHECKED -	JGG, MWV	REVISED -
ww.ehancock.com DATE -	2-11-20	REVISED -

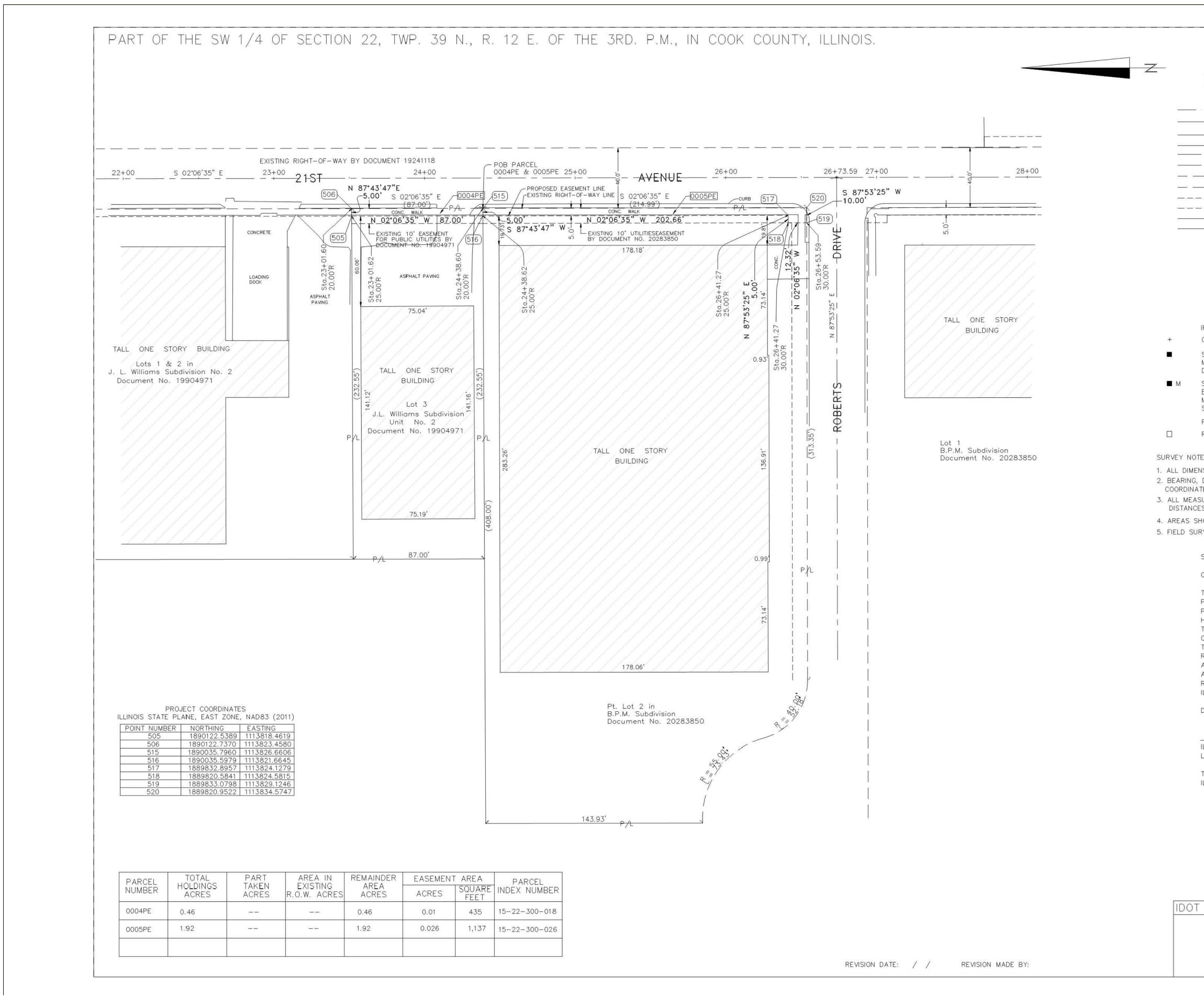






STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIMITS: SE ONLY STA. 17+00 SCALE: 1" = 30' BUREA 201	21st AVE to sta. 24+38.62	INOIS 60196 SECTION 16-00080-01-PV	-97 - COUNTY COOK CONTRACT	SHEETS 102	SHEE NO. 50
LIMITS: SE ONLY STA. 17+00 SCALE: 1" = 30' BUREA 201 SCHAI	21st AVE to sta. 24+38.62 U OF LAND WEST CENT UMBURG, ILL	JOB NO.: R-55-001 SHEET 2 OF 5 ACQUISITION ER COURT INOIS 60196			
LIMITS: SE ONLY STA. 17+00 SCALE: 1" = 30' BUREA 201	21st AVE to sta. 24+38.62 U OF LAND WEST CENT	JOB NO.: R-55-001 SHEET 2 OF 5 ACQUISITION ER COURT	-97		
LIMITS: SE ONLY STA. 17+00 SCALE: 1" = 30' BUREA 201	21st AVE to sta. 24+38.62 U OF LAND WEST CENT	JOB NO.: R-55-001 SHEET 2 OF 5 ACQUISITION ER COURT	-97		
LIMITS: <u>EONLY</u> SECTION: STA. 17+00 SCALE: 1" = 30' BUREA	21st AVE to sta. 24+38.62 AU OF LAND	JOB NO.: R-55-001 SHEET 2 OF 5 ACQUISITION	-97		
LIMITS: E ONLY SECTION: STA. 17+00 SCALE: 1" = 30'	21st AVE to sta. 24+38.62	JOB NO.: R-55-001 SHEET 2 OF 5	-97		
LIMITS: SE ONLY STA. 17+00	21st AVE	JOB NO.: R-55-001	-97		
DEPART LIMITS:			_97		
		NUE	1		
P		ANSPORTATION	1		
	LAT OF H STATE OF I				
	630-627-55	89			
CINN	P.O. BOX 92 PLAINFIELD,	9			
NIS MINIMUM STANDARDS FOR A		RVEYING, LLC			
PROFESSIONAL SERVICE CONFOR	MS TO THE CURREN	r.			
DIS PROFESSIONAL LAND SURVE					
D AT, ILLINOIS	THISDAY OF	<u>20 A.</u> D.			
aced, made for the departm NS.	INT OF TRANSPORTA	HUN, STATE UP			
OF PERMANENT QUALITY AND O THAT THE MONUMENTS ARE SUF ACED, MADE FOR THE DEPARTM	FICIENT TO ENABLE	THE SURVEY TO BE			
BEST OF MY KNOWLEDGE AND B ESENTS SAID SURVEY, THAT ALL	L MONUMENTS FOUND	AND ESTABLISHED			
SHIP 39 NORTH, 12 RANGE EAS COUNTY, THAT THE SURVEY IS	TRUE AND COMPLET	E AS SHOWN TO			
ESSIONAL DESIGN FIRM LAND SU SURVEYED THE PLAT OF HIGHV	VAYS SHOWN HEREON	IN SECTION 22,			
IS TO CERTIFY THAT I, MICHAE ESSIONAL LAND SURVEYOR, (WE	, KRISCH LAND SURV	EYING, LLC, AN ILLINOIS			
TY OF)					
OF ILLINOIS))SS					
COMPLETED ON MARCH 21, 201	9.				
ON THIS PLAT ARE "GROUND".					
AND CALCULATED DISTANCES / /IDE GRID DISTANCES SHOWN B	ARE "GRID" NOT "GR	DUND". TO OBTAIN GROUN			
S ARE MEASURED UNLESS OTHE NCES, AND COORDINATES SHOV STEM, EAST ZONE, NORTH AMEF	WN HEREON REFEREN		1.1111.11.111.111		
OF WAY STAKING PROPOSED 1	O BE SET				
ANENT SURVEY MARKER, I.D.O.T		02 (TO BE SET BY OTHER	RS)		
D 5/8 INCH METAL ROD 20 IN ER POSITION IDENTIFIED BY COL EYORS REGISTRATION NUMBER.					
NG OF PROPOSED RIGHT OF WA	AY IN CULTIVATED AR		FY		
ING OF PROPOSED RIGHT OF WA ER TO MONUMENT THE POSITION AND SURVEYORS REGISTRATION	N SHOWN. IDENTIFIED				
CROSS FOUND OR SET O					
PIPE OR ROD FOUND	MAG" NAIL SET				
BEARINGS ARE REFERE COORDINATE SYSTEM, I					
	DRDED DIMENSION				
	SURED DIMENSION PUTED DIMENSION				
PROF	POSED ACCESS CONTR	JUALL, I - S	50 -		
	POSED EASEMENT TING ACCESS CONTRO	L LINE <u>SCALE: 1"= 3</u>	30 30'		
	POSED RIGHT OF WAY TING EASEMENT	LINE GRAPHIC SCA	LE		
- <u> </u>	TING RIGHT OF WAY L				
	TING CENTERLINE				
	PERTY (DEED) LINE ARENT PROPERTY LINI				
	ION / QUARTER SE TED LOT LINES	ECTION LINE			
		CTION LINE			
(9 10) SECTION (16 15) CORNER 16	QUARTE	D.			
11					
11	VD				
910 SECTION	٧D				



REVISED -**DESIGNED** -MWV HANCOCK ENGINEERING Civil Engineers 9933 Roosevelt Road Westchester, IL, 60154-2780 DRAWN -**REVISED** -DMM, SFB Municipal Consultants Phone: 708-865-0300 CHECKED -JGG, MWV **REVISED** -🗟 🕺 🔶 Established 1911 www.ehancock.com DATE -**REVISED** -2-11-20

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS FOR PERMANENT EASEM

TO STA.

SCALE: NONE SHEET NO. 3 OF 5 SHEETS STA.

5		MUN RTE.	SECTION		COUNTY	SHEETS	SHEET NO.
						 TOTAL	OUEET
	201	WEST	AND ACQU CENTER CO 5, ILLINOIS	DURT			SHEET NO. 51
USE ONLY	SECTION: STA. 24+38.62 SCALE: 1" = 30'	LUNOS A-SINGALIS Veode	JOB +73.59 SHEI	NO.: R-55	-001-97		
		STATE Ment c	F HIGHW of illino f transf avenue	S	124*3336662533131 		
	TANDARDS FOR A	BOUNDARY CH LAN P.O. PLAII 630-	SURVEY. DSURVEYI BOX 929 NFIELD, IL 60544 -627-5589	5 • • • • • • • • • • • • • • • • • • •	с		
LICENSE EXPIRATIO	N DATE: NOVEMEBE	R 30, 2020					
LUNOIS PROFESSIO	NAL LAND SURVEY	OR NO 35-	2501				
LLINOIS. DATED AT	, ILLINOIS	THIS <u>D</u> A`	Y OF2) <u>A.</u> D.			
PROFESSIONAL LAN PROFESSIONAL DES HAVE SURVEYED TH TOWNSHIP 39 NORT COOK COUNTY, THA THE BEST OF MY K REPRESENTS SAID ARE OF PERMANEN AND THAT THE MOI RETRACED, MADE F	THAT I, MICHAEL D SURVEYOR, (WE, IGN FIRM LAND SU HE PLAT OF HIGHW. TH, 12 RANGE EAS AT THE SURVEY IS NOWLEDGE AND BE SURVEY, THAT ALL T QUALITY AND OC NUMENTS ARE SUFI	KRISCH LAN RVEYING COR AYS SHOWN OF THE TH TRUE AND C LLIEF, THAT MONUMENTS CUPY THE F FICIENT TO E	ND SURVEYING, LL RPORATION, NUMB HEREON IN SECT HIRD PRINCIPAL M COMPLETE AS SHO THE PLAT CORRE S FOUND AND ES POSITIONS SHOWN ENABLE THE SURV	ER,) ON 22, ERIDIAN, DWN TO CTLY TABLISHED THEREON (EY TO BE	IOIS		
STATE OF ILLINOIS))SS)						
DISTANCES, AND C E SYSTEM, EAST Z JRED AND CALCUL S, DIVIDE GRID DIS OWN ON THIS PLA	RED UNLESS OTHEF OORDINATES SHOW ONE, NORTH AMER ATED DISTANCES A TANCES SHOWN BY T ARE "GROUND". N MARCH 21, 2019	N HEREON R ICAN DATUM RE "GRID" N THE COMBI	REFERENCE THE IL OF 1983 (2011 NOT "GROUND". TO	ADJUSTMEN) OBTAIN G	T) "GRID". ROUND		
	Y MARKER, I.D.O.T. KING PROPOSED TO		667101.02 (TO B	E SET BY (DTHERS)		
BURIED 5/8 INCH	METAL ROD 20 INC IDENTIFIED BY COLO	HES BELOW	GROUND TO MAR	K FUTURE	SURVEY		
MARKER TO MONUN DATA AND SURVEY	DSED RIGHT OF WA MENT THE POSITION ORS REGISTRATION DSED RIGHT OF WA	SHOWN. IDE NUMBER.	ENTIFIED BY INSC				
CUT CROSS FOUND	FOUND ⊕"M OR SET O	5 / 8"RE	BAR SET				
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129.32' 129.32' (COMP) (129.32')	COMPUTED	DIMENSION DIMENSION DIMENSION UILDING					
400.70	EXISTING A	EASEMENT CCESS CON ACCESS CO		SCALE:	<u>30</u> 1 "= 30'		
		IGHT OF WA RIGHT OF V ASEMENT		GRAPHIC FEE			
	APL APPARENT EXISTING C	PROPERTY	LINE				
- <u></u>	PLATTED L		SECTION LINE				
910 1615 SECTION CORNE	10	15 SECT CORN	10N				
	LEGEND						

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

PARCEL	TOTAL			REMAINDER				
NUMBER	HOLDINGS ACRES	TAKEN ACRES	EXISTING R.O.W. ACRES	AREA ACRES ACRES		SQUARE FEET	PARCE	
0006PE	0.96			0.96	0.033	1,446	15-22-300	
0007PE	0.97			0.97	0.062	2,694	15-22-30	

MWV

DMM, SFB

JGG, MWV

2-11-20

DESIGNED -

DATE -

9933 Roosevelt Road

www.ehancock.co

Westchester, IL, 60154-2780 DRAWN -

Phone: 708-865-0300 CHECKED -

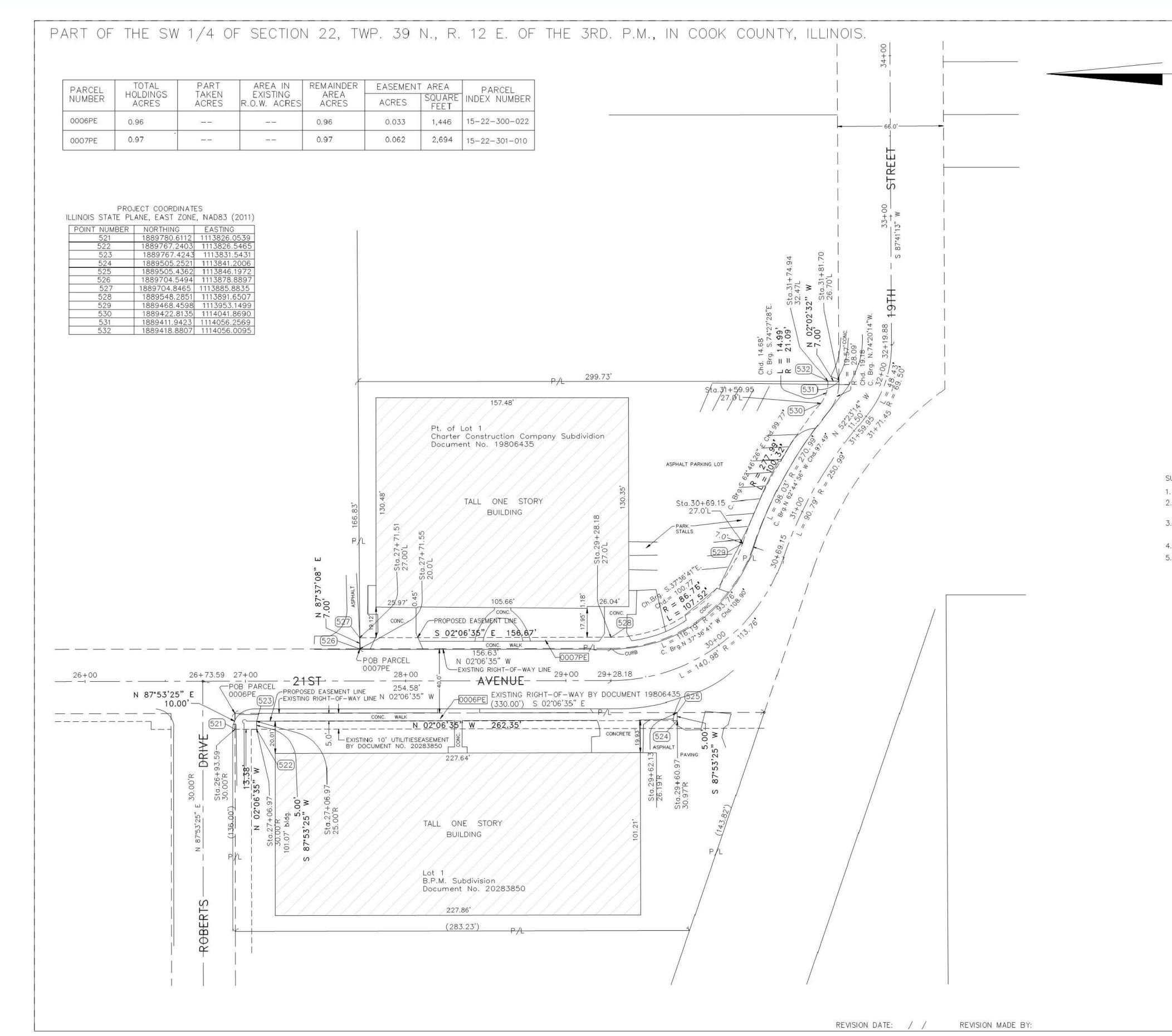
REVISED -

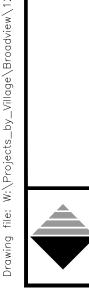
REVISED -

REVISED -

REVISED -

POINT NUMBER	NORTHING	EASTING
521	1889780.6112	1113826.0539
522	1889767.2403	1113826.5465
523	1889767.4243	1113831.5431
524	1889505.2521	1113841.2006
525	1889505.4362	1113846.1972
526	1889704.5494	1113878.8897
527	1889704.8465	1113885.8835
528	1889548.2851	1113891.6507
529	1889468.4598	1113953.1499
530	1889422.8135	1114041.8690
531	1889411.9423	1114056.2569
532	1889418.8807	1114056.0095





HANCOCK ENGINEERING

Civil Engineers

Established 1911

Municipal Consultants

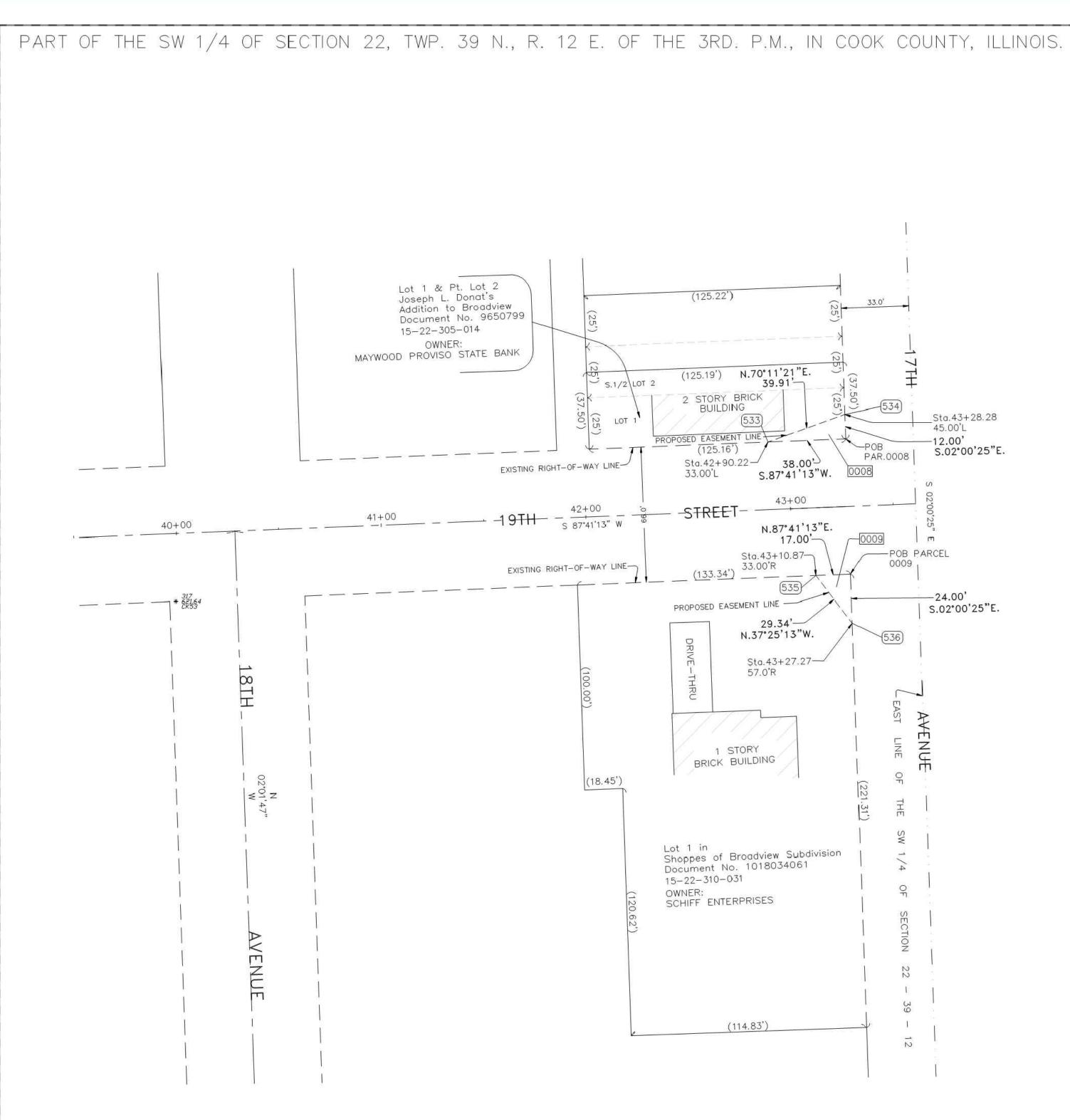
SCALE: NONE



TO STA.

	LEGEN			
	TION INER 16	QUARTER 15 SECTION CORNER		
* * * * * *	PLATTED	/ QUARTER SECTION LOT LINES TY (DEED) LINE	LINE	
	EXISTING	NT PROPERTY LINE CENTERLINE ED CENTERLINE RIGHT OF WAY LINE		
		ED RIGHT OF WAY LINE EASEMENT ED EASEMENT ACCESS CONTROL LINE	0	PHIC SCALE FEET 30
129.32' 129.32' (COMP (129.32')	MEASURE 2) COMPUTE RECORDE	ED ACCESS CONTROL LIN ED DIMENSION ED DIMENSION ED DIMENSION BUILDING		
1000	ARINGS ARE REFER	ENCED TO THE ILLINOIS	승규들은 영화적으로 가지 않는 것이 없었다.	
	ORDINATE SYSTEM, DD FOUND \oplus	NAD83 (2011 ADJUSTMI "MAG" NAIL SET	ENT), EAST ZO	NE.
STAKING OF PRO	POSED RIGHT OF V	5 / 8" REBAR SET VAY. SET DIVISION OF H ON SHOWN. IDENTIFIED E		
DATA AND SURVE M STAKING OF PRO	EYORS REGISTRATION POSED RIGHT OF V	2월18일 : 2월12일 전화 전 2월19일 - 2070 2010 2010 2010 700 - 207	AS.	
MARKER POSITION SURVEYORS REGI	N IDENTIFIED BY CO STRATION NUMBER.	DLORED PLASTIC CAP BE	ARING	
	TAKING PROPOSED		а (ж алады дарыңта теререни т	
ISTANCES, DIVIDE GRID D REAS SHOWN ON THIS PL ELD SURVEY COMPLETED STATE OF ILLINOI	AT ARE "GROUND" ON MARCH 21, 20		10K OF 0.99	302304.
PROFESSIONAL LA PROFESSIONAL DE HAVE SURVEYED TOWNSHIP 39 NO COOK COUNTY, TI THE BEST OF MY REPRESENTS SAID ARE OF PERMANE AND THAT THE M	AND SURVEYOR, (W ESIGN FIRM LAND S THE PLAT OF HIGH RTH, 12 RANGE EA HAT THE SURVEY I KNOWLEDGE AND SURVEY, THAT A ENT QUALITY AND IONUMENTS ARE SU	EL L. KRICH, AN ILLINO E, KRISCH LAND SURVE SURVEYING CORPORATION WAYS SHOWN HEREON I ST OF THE THIRD PRING S TRUE AND COMPLETE BELIEF, THAT THE PLAT LL MONUMENTS FOUND OCCUPY THE POSITIONS JFFICIENT TO ENABLE TH MENT OF TRANSPORTATION	YING, LLC, AN N, NUMBER N SECTION 22, CIPAL MERIDIAN AS SHOWN TO CORRECTLY AND ESTABLISH SHOWN THERE HE SURVEY TO	,) i, ied on
DATED AT	, ILLINOI	S THISDAY OF	<u> 20 A.</u> [).
	IONAL LAND SURVI ION DATE: NOVEME	EYOR NO. 35-2501 BER 30, 2020		
	STANDARDS FOR	DRMS TO THE CURRENT A BOUNDARY SURVEY. SCH LAND SUR P.O. BOX 929 PLAINFIELD, IL 630-627-558	60544	LLC
		PLAT OF HI State of IL TMENT OF TRA 21st AVEN	LINOIS ANSPORT	
IDOT USE ONLY		TO STA. 31+81.70	COUNTY: C JOB NO.: R SHEET 4 OI	-55-001-97
	201	AU OF LAND I WEST CENTE AUMBURG, ILL <mark>I</mark> I	R COUR	T
	MUN	SECTION	I	
INTS	RTE. 3015	16-00080-01-PV		DOK 102

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



PARCEL			AREA IN	REMAINDER			PARCEL
NUMBER	HOLDINGS ACRES	TAKEN ACRES	EXISTING R.O.W. ACRES	AREA ACRES	ACRES	SQUARE FEET	INDEX NUMBER
0008	0.11			0.11		228	15-22-305-014
0009	0.62			0.62		204	15-22-310-031



		9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
	 Civil Engineers Municipal Consultants 		DRAWN -	DMM, SFB	REVISED -
INEERING	Established 1911		CHECKED -	JGG, MWV	REVISED -
		www.ehancock.com	DATE -	2-11-20	REVISED -

PROJ	ECT COORDINATE	S
LINOIS STATE PL	ANE, EAST ZONE	, NAD83 (2011
POINT NUMBER	NORTHING	EASTING
533	1889456.0438	1115148.0537
534	1889469.5701	1115185.6025
535	1889390.9309	1115171.3479
536	1889367.6317	1115189.1745



TO STA.

REVISION DATE: 4/09/2019 REVISION MADE BY: MLK

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS FOR PERMANENT EASEM

SHEET NO. 5 OF 5 SHEETS STA. SCALE: NONE

	LEGENI)			
	SECTION CORNER 16	\frown	QUARTER 5 SECTION CORNER		
	- SECTION		LARTER SECTION LINE		
	PLATTED	LOT LIN	1ES		
	A CONTRACT AND A CONTRACT A CONTRACT	NT PROP	ERTY LINE		
	PROPOSE		ERLINE OF WAY LINE	N	
	PROPOSE			PHIC SCALE	
		ACCESS	S CONTROL LINE	E: 1"= 30'	
129.32'	MEASURE	ED DIMEN			
129.32' (CC (129.32')		ED DIMEN	ISION		
	⊿ BEARINGS ARE REFER	ENCED	TO THE ILLINOIS STATE PLANE		
	ROD FOUND \oplus		(2011 ADJUSTMENT), EAST ZON IAIL SET	JE.	
■ STAKING OF P		VAY. SE	8" REBAR SET T DIVISION OF HIGHWAYS SURV WN. IDENTIFIED BY INSCRIPTION	ΕY	
DATA AND SU ■ M STAKING OF P	RVEYORS REGISTRATION ROPOSED RIGHT OF V	ON NUME	BER. CULTIVATED AREAS.		
MARKER POSIT		OLORED	BELOW GROUND TO MARK FUTUF PLASTIC CAP BEARING	RE SURVEY	
	URVEY MARKER, I.D.O ' STAKING PROPOSED		IDARD 667101.02 (TO BE SET E SET	BY OTHERS)	
COORDINATE SYSTEM, EA 3. ALL MEASURED AND CA	ND COORDINATES SHO AST ZONE, NORTH AMI LCULATED DISTANCES DISTANCES SHOWN PLAT ARE "GROUND"	OWN HER ERICAN I ARE "G BY THE	SPECIFIED. EON REFERENCE THE ILLINOIS S DATUM OF 1983 (2011 ADJUSTM RID" NOT "GROUND". TO OBTAIL COMBINATION FACTOR OF	MENT) "GRID". N GROUND	
STATE OF ILLIN	NOIS))SS				
COUNTY OF)				
PROFESSIONAL PROFESSIONAL HAVE SURVEYE TOWNSHIP 39 COOK COUNTY THE BEST OF REPRESENTS S ARE OF PERM/ AND THAT THE	DESIGN FIRM LAND S ED THE PLAT OF HIGH NORTH, 12 RANGE EA , THAT THE SURVEY I MY KNOWLEDGE AND SAID SURVEY, THAT A ANENT QUALITY AND E MONUMENTS ARE SU	E, KRISC SURVEYIN WAYS S AST OF 1 IS TRUE BELIEF, LL MONU OCCUPY JFFICIEN	RICH, AN ILLINOIS CH LAND SURVEYING, LLC, AN I NG CORPORATION, NUMBER HOWN HEREON IN SECTION 22, THE THIRD PRINCIPAL MERIDIAN, AND COMPLETE AS SHOWN TO THAT THE PLAT CORRECTLY JMENTS FOUND AND ESTABLISH THE POSITIONS SHOWN THEREO T TO ENABLE THE SURVEY TO TRANSPORTATION, STATE OF	_ ,) ED DN	
DATED AT	, ILLINOI	S THIS	DAY OF20D	ŝ.	
	ESSIONAL LAND SURVI				
THIS PROFESSI	ATION DATE: NOVEME	ORMS TO	THE CURRENT		
ILLINOIS MINIM	UM STANDARDS FOR		DARY SURVEY. LAND SURVEYING, p.o. box 929 plainfield, il 60544 630-627-5589	LLC	
		STA TMEN	OF HIGHWAYS ATE OF ILLINOIS IT OF TRANSPORT, 21st AVENUE		
IDOT USE ONI		TO	COUNTY: CC JOB NO.:	юк	
	STA. 43+12.81 SCALE: 1" = 30'		SHEET 5 of	. 58	
	201	1 WES	OF LAND ACQUISITI ST CENTER COURT URG, ILLINOIS 601		
		MUN	SECTION	COUNTY	TOTAL SHEET
HWAYS Easements		RTE. 3015	16-00080-01-PV		SHEETS NO. 102 53 NO. 61G35

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

JOB-SITE	SIGNING CODES	S AND SIZES	JOB-SITE	SIGNING COL	DES AND SIZES	DESIGN:
SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE	CONSTRUCTION
S	STOP	R1-1 30"x 30"	ROBERTS	Roberts Dr	NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY ENGINEER)	LOADING: SOIL PRESSURE
25	NO	R2-1 24"x 30"	18thA	18th Ave	NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY ENGINEER)	MATERIALS:
NPOS	NO PARKING OR STANDING	R7-1 12"x 18"	19thA	19th Ave	NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY ENGINEER)	
BIKE LN	BIKE LANE	R3-17 24"x 18"	19thS	19th St	NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY ENGINEER)	STAINLESS STE
BIKE WW RWT	WRONG WAY	R5-1b 12"x 18"	21ST	21st Ave	NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY ENGINEER)	ALUMINUM:
	RIDE WITH TRAFFIC	R9-3cP 12"x 12"				NO
ENDS	ENDS	R3-17bP 24"x 8"				
RC		W1-1L 30"x 30"				
LC		W1-1R 30"x 30"				
		W1-7 48"x 24"				

		3.9 A Civil Engineer	9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
		A Civil Engineers Aunicipal Consultants		DRAWN -	DMM, SFB	REVISED -
			Phone: 708-865-0300	CHECKED -	JGG, MWV	REVISED -
		www.ehancock.com	DATE -	2-11-20	REVISED -	

SIGNING NOTES:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN LEGENDS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS ST

	SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1975.
N:	CURRENTS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AND APPLICABLE SPECIAL PROVISIONS.
	FOR 80 MPH WIND VELOCITY WITH 30% GUST FACTOR, NORMAL TO SIGN.
E:	MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF.
	POSTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.29, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS.
	HARDWARE FOR ATTACHING SIGN PANELS TO POSTS SHALL BE CADIUM OR ZINC COATED STEEL, STAINLESS STEEL, OR ALUMINUM, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: CADIUM OR ZINC COATED STEEL: BOLTS, NUTS, AND WASHERS: ASTM A165, TYPE NS. ZINC COATED IN ACCORDANCE WITH AASHTO M-232

AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL

TEEL: BOLTS: ASTM A193, CLASS I, GRADE B8, NUTS: ASTM A194, GRADE 8 OR 8F, WASHERS: ASTM A240, TYPE 302 OR 304.

OR ASTM A164, TYPE GS.

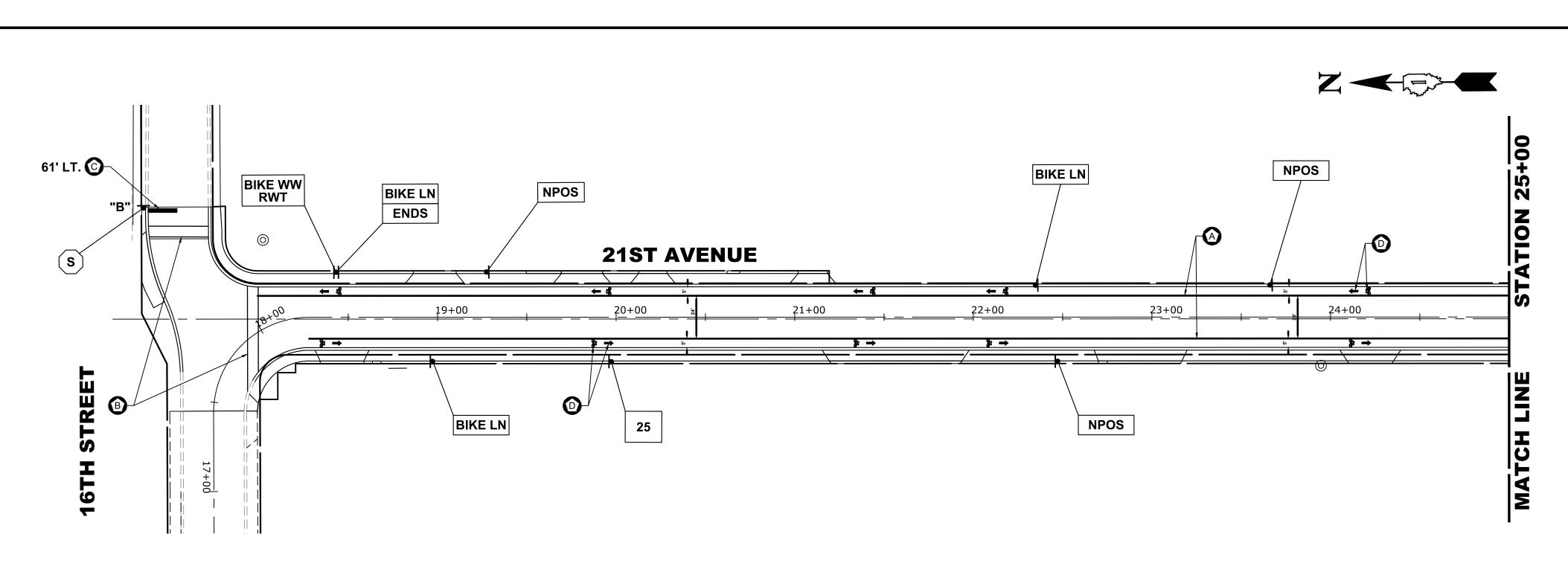
BOLTS: ASTM B211 ALLOY 6061-T6 OR 2024-T4, NUTS: ASTM B211 ALLOY 6061-T6 OR 6262-T9, WASHERS: ASTM B209 ALCLAD 2024-T4.

TE: PER 2009 MUTCD SECTION 2D.43, PARAGRAPH 03, STREET NAME SIGNS ARE TO BE MIXED CASE FONT.

SYMBOL

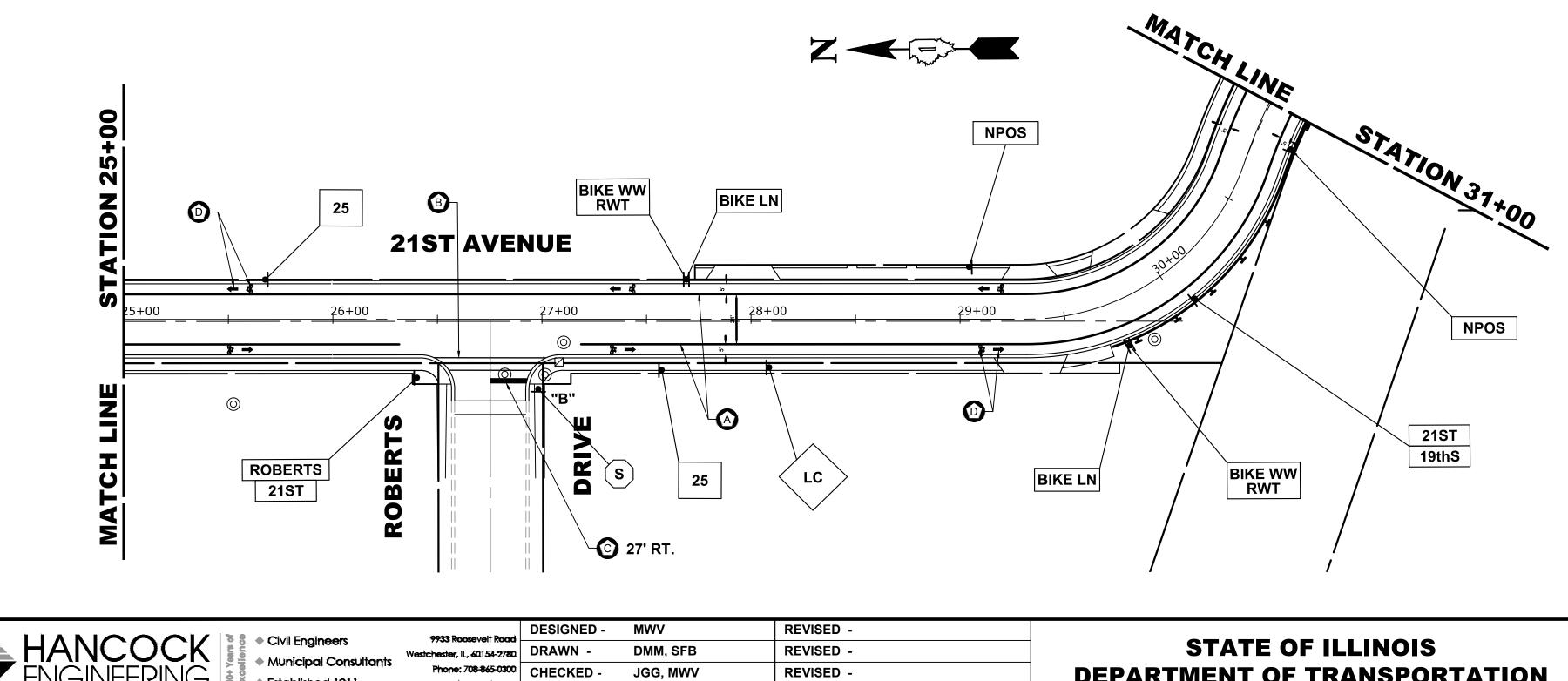
DESCRIPTION METAL POST - TYPE A

S AND NOTES		MUN RTE.				COUNTY	TOTAL SHEE SHEETS NO.		
S AND	NOTES	3015	16-00080-01-PV			COOK	102	54	
		FIELD BO	OK NO. : -			CONTRACT N	O. 61G35		
STA.	TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS	FED	. AID PROJECT			



NOTE:

- 1. VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. AS DESIGNATED BY ENGINEER, THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN " OR "SIGN PANEL - TYPE 1" AND "METAL POST - TYPE I" PAY ITEM)
- 2. ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO VERIFY LOCATIONS OF ALL SIGNAGE.



REVISED -

REVISED -

JGG, MWV

2-11-20

RING

Established 1911

www.ehancock.cor

DATE -

ITEM DESCRIPTION

MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4", WHITE B MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6", CROSS WALK, WHITE \bigcirc MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 24", STOP BAR, WHITE MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LETTERS & SYMBOLS, WHITE

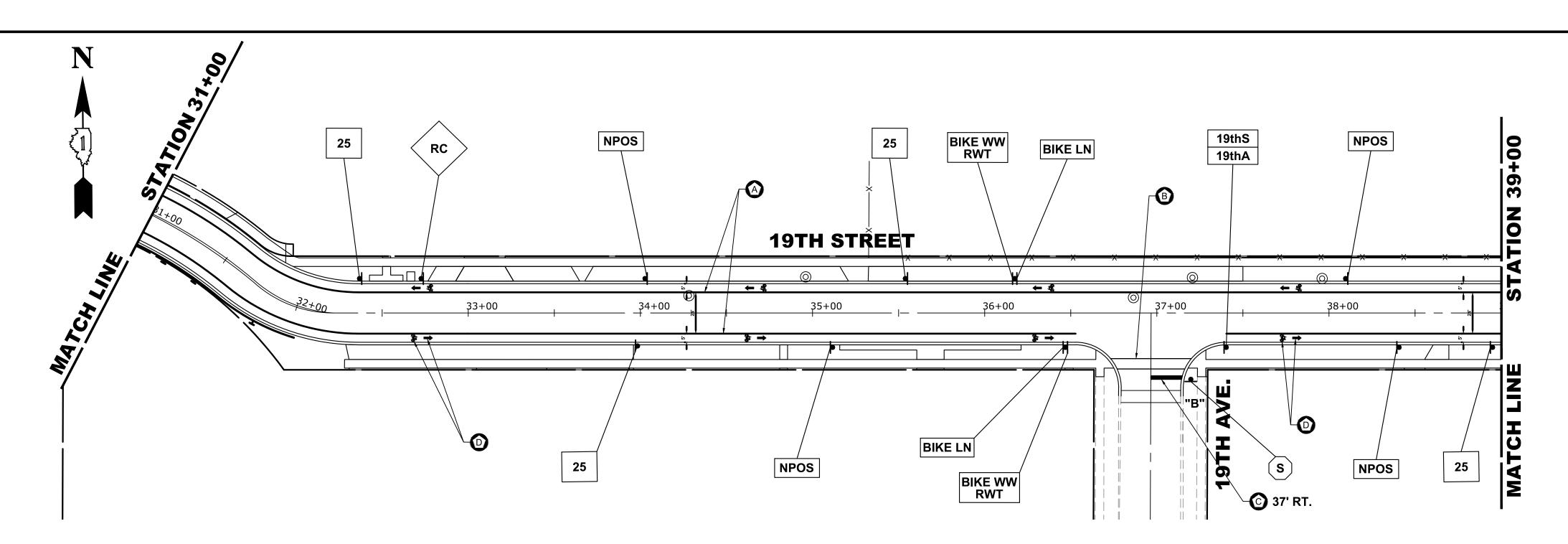
DEPARTMENT OF TRANSPORTATION

PAVEMENT MAR AND SIGNING P

SHEET NO. 1 OF 2 SHEETS S SCALE: 1" = 40'

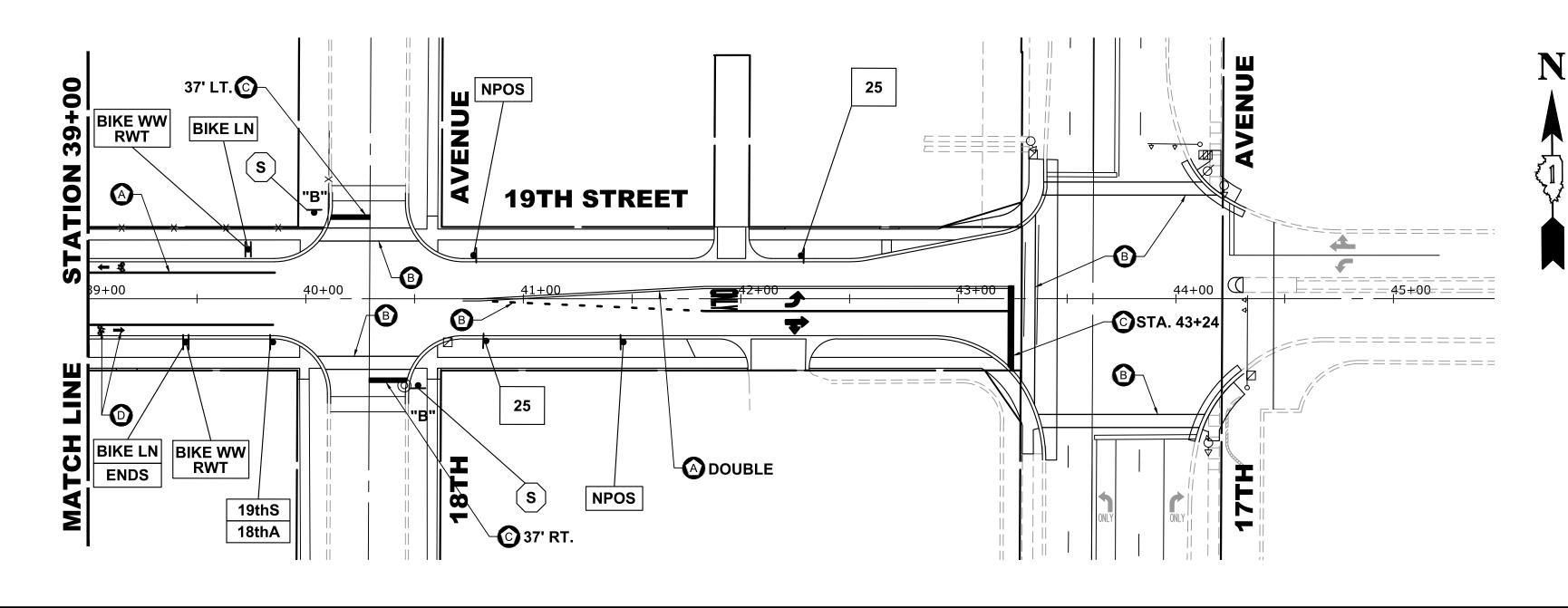
SYMBOL

									í H
RKING		MUN RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	C L L
οι ΔΝ		3015	16-00080)-01-PV		СООК	102	55	
		FIELD B	OOK NO. : -			CONTRACT NO	. 61G35		Ц
PLAN STA. 17+45 TO STA. 31+00		FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	AID PROJECT			



NOTE:

- 1. VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. AS DESIGNATED BY ENGINEER, THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN " OR "SIGN PANEL - TYPE 1" AND "METAL POST - TYPE I" PAY ITEM)
- 2. ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO VERIFY LOCATIONS OF ALL SIGNAGE.



	X 9. ▲ Civil Engineer	9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
HANCOCK	 Civil Engineers Municipal Consultants 	Westchester, IL, 60154-2780	DRAWN -	DMM, SFB	REVISED -
	38	Phone: 708-865-0300	CHECKED -	JGG, MWV	REVISED -
	$ \stackrel{\circ}{=} \underline{} \stackrel{\circ}{\bullet} $ Established 1911	www.ehancock.com	DATE -	2-11-20	REVISED -

ITEM DESCRIPTION

MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4", WHITE B MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6", CROSS WALK, WHITE \bigcirc MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 24", STOP BAR, WHITE MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LETTERS & SYMBOLS, WHITE

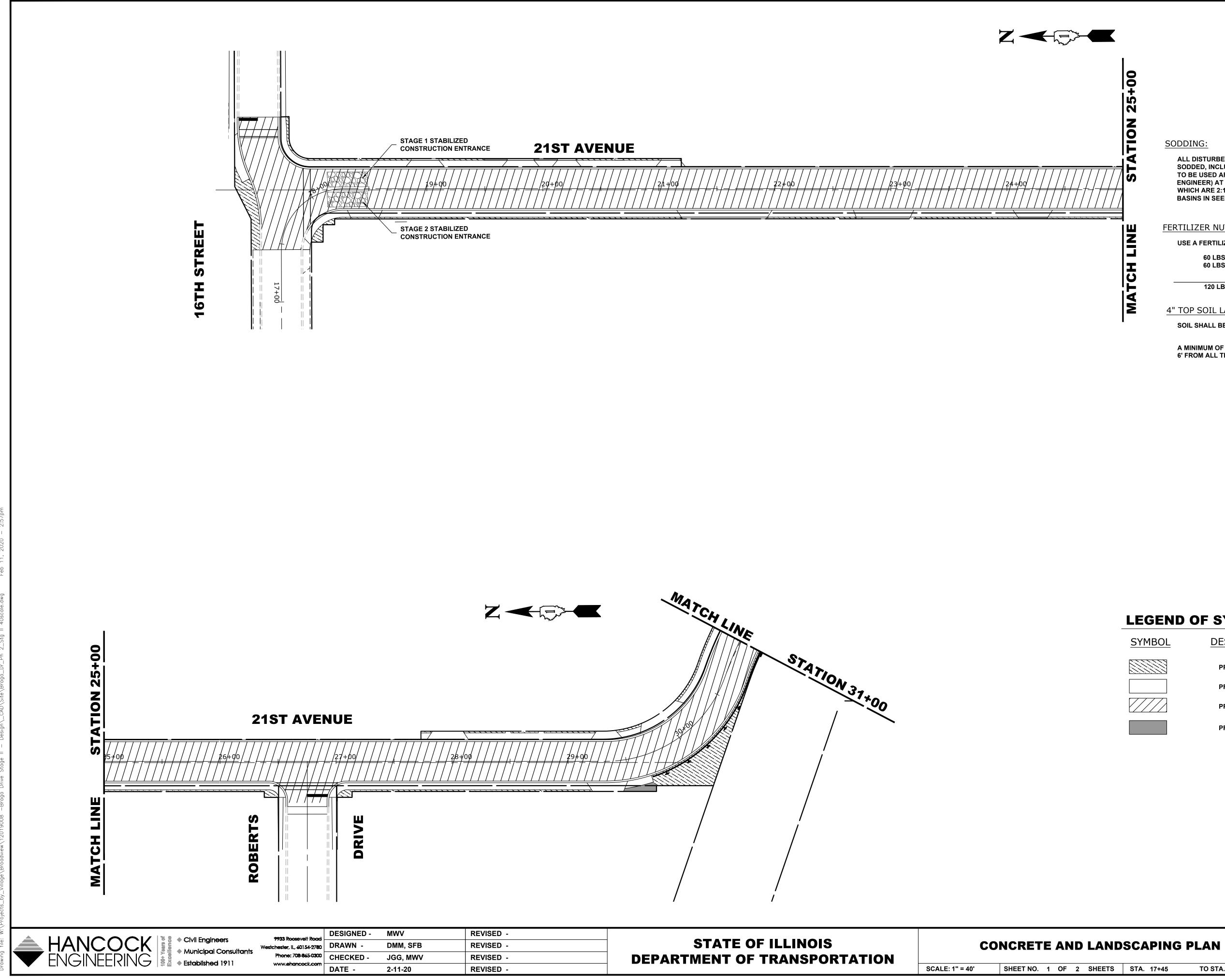
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MAR AND SIGNING P

SHEET NO. 2 OF 2 SHEETS S SCALE: 1" = 40'

SYMBOL

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RKING	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	С Ш
PLAN	3015	16-00080-01-PV	СООК	102	56	La d
	FIELD BOOK NO. : - CONTRACT NO. 61G35					ш
STA. 31+00 TO STA. 43+46	FED. R	OAD DIST. NO. 1 ILLINOIS FEE	AID PROJECT			IU



LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDED AREAS).

FERTILIZER NUTRIENTS* FOR SODDING:

USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE: 60 LBS. NITROGEN FERTILIZER NUTRIENT 60 LBS POTASSIUM FERTILIZER NUTRIENT

120 LBS. PER ACRE

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.

LEGEND OF SYMBOLS

SYMBOL

DESCRIPTION

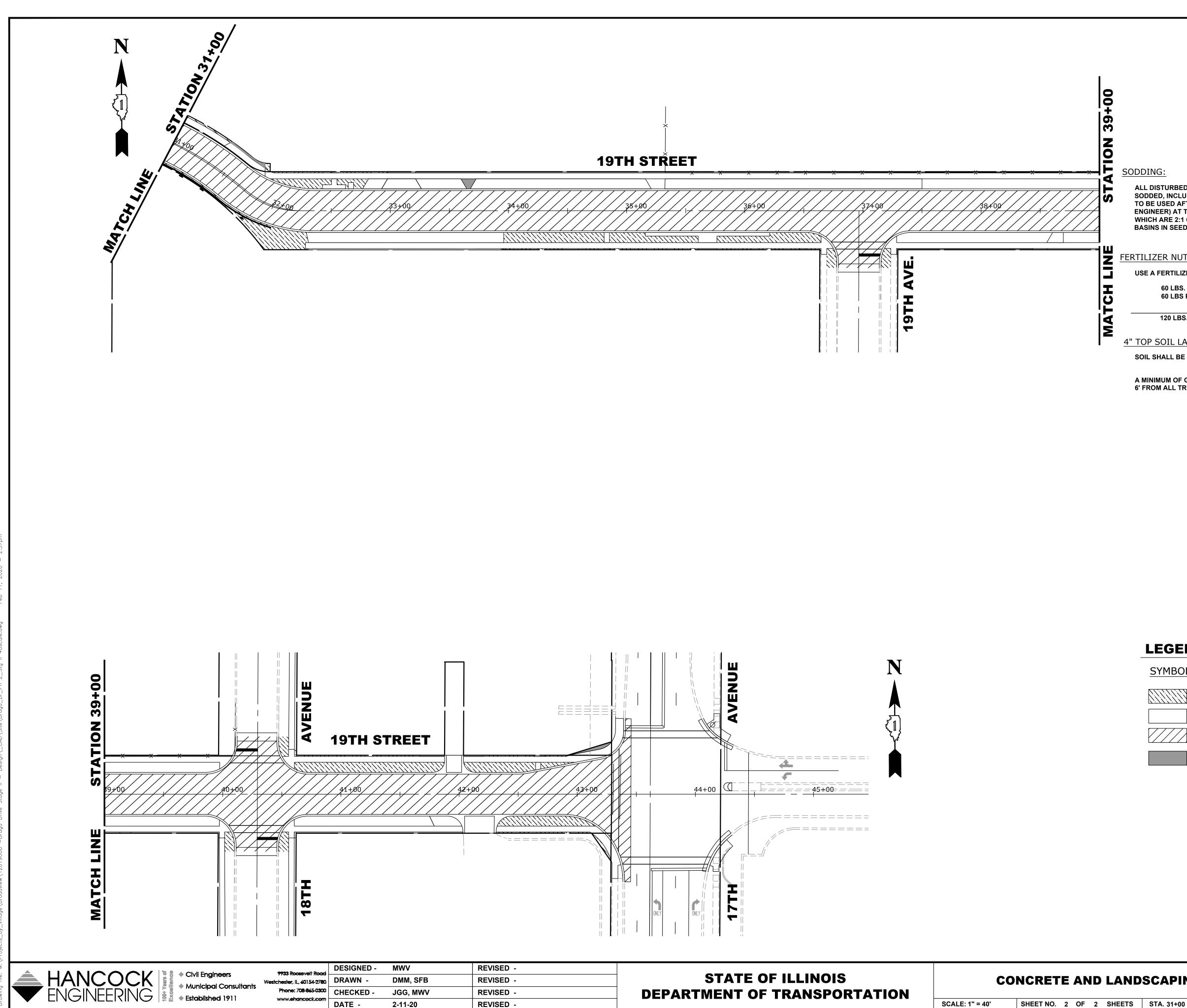
PROPOSED SODDED PARKWAY

PROPOSED CONCRETE AREA

PROPOSED 9" CONCRETE PAVEMENT AREA

PROPOSED HOT-MIX ASPHALT AREA

TOTAL SHEET SHEETS NO. MUN RTE. SECTION COUNTY 102 57 3015 16-00080-01-PV COOK FIELD BOOK NO. : -CONTRACT NO. 61G35 TO STA. 31+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA

LANDSCAPING NOTES

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDED AREAS).

FERTILIZER NUTRIENTS* FOR SODDING:

USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:

60 LBS. NITROGEN FERTILIZER NUTRIENT 60 LBS POTASSIUM FERTILIZER NUTRIENT

120 LBS. PER ACRE

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.

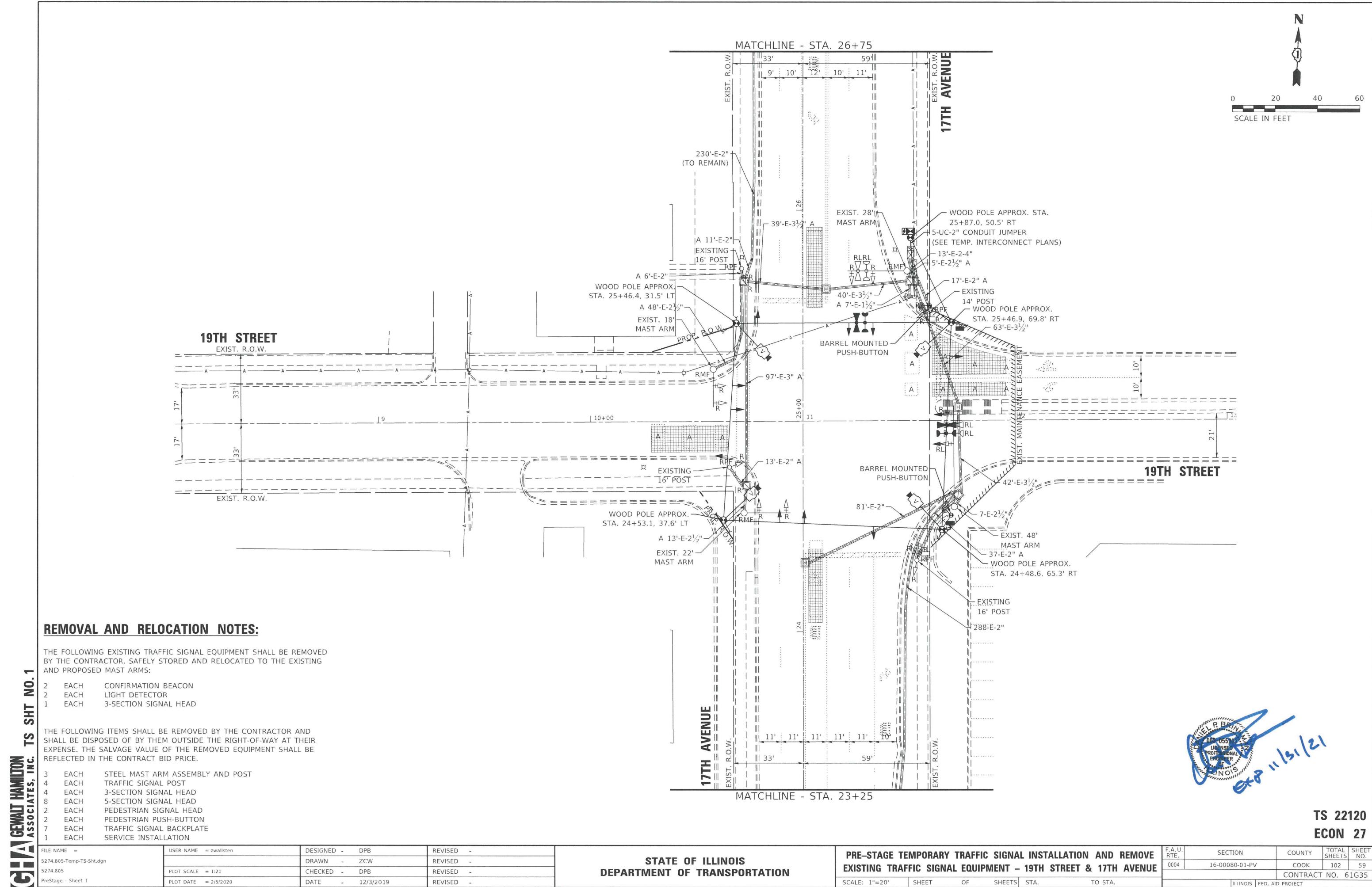
LEGEND OF SYMBOLS

|--|

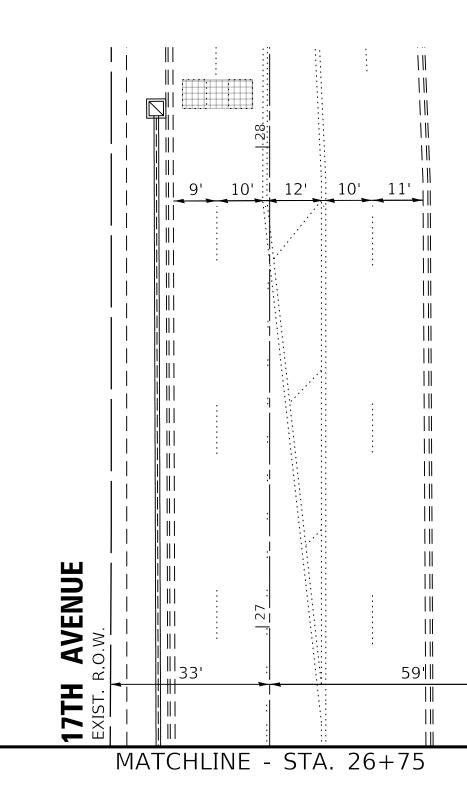
DESCRIPTION

PROPOSED SODDED PARKWAY
PROPOSED CONCRETE AREA
PROPOSED 9" CONCRETE PAVEMENT AREA
PROPOSED HOT-MIX ASPHALT AREA

CAPING PLAN		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		16-00080-01-PV	COOK 102 58		
		OOK NO. : -	CONTRACT NO	O. 61G35	
TA. 31+00 TO STA. 43+46	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-STAGE T			
	SCALE: 1"=20'	SHEET	OF	SHEET



AVENUE

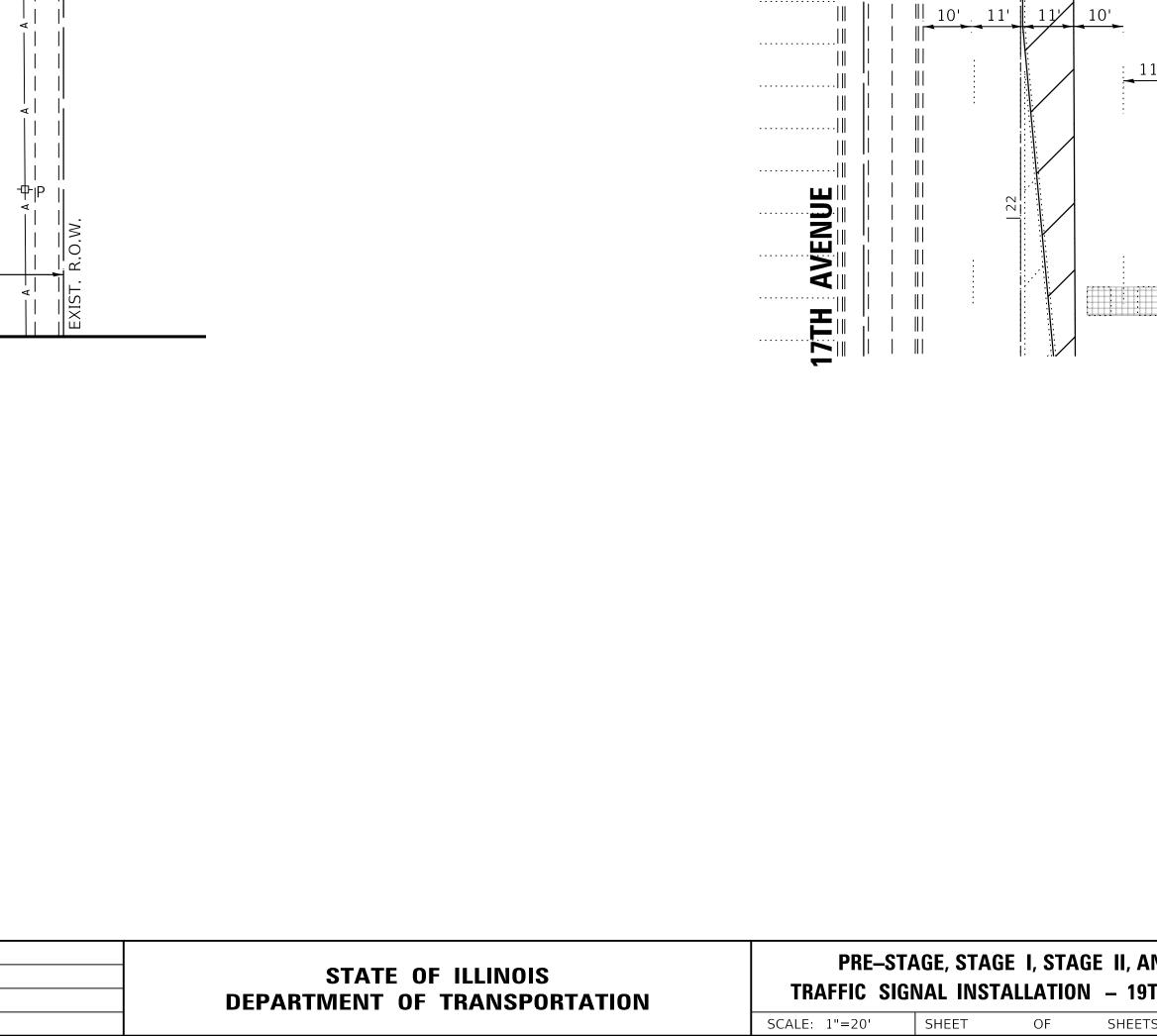
17TH

∢ |

NO SHT TS **GEVALT HAMILTON** associates, inc.

2

FILE NAME =	USER NAME = zwallsten	DESIGNED -	DPB	REVISED -
5274.805-Temp-TS-Sht.dgn		DRAWN -	ZCW	REVISED -
5274.805	PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
PreStage - Sheet 2	PLOT DATE = 2/5/2020	DATE -	12/3/2019	REVISED -

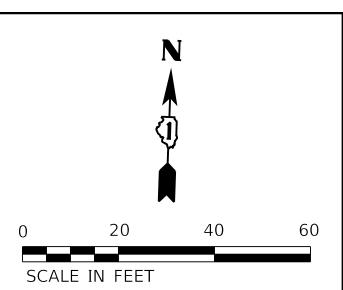


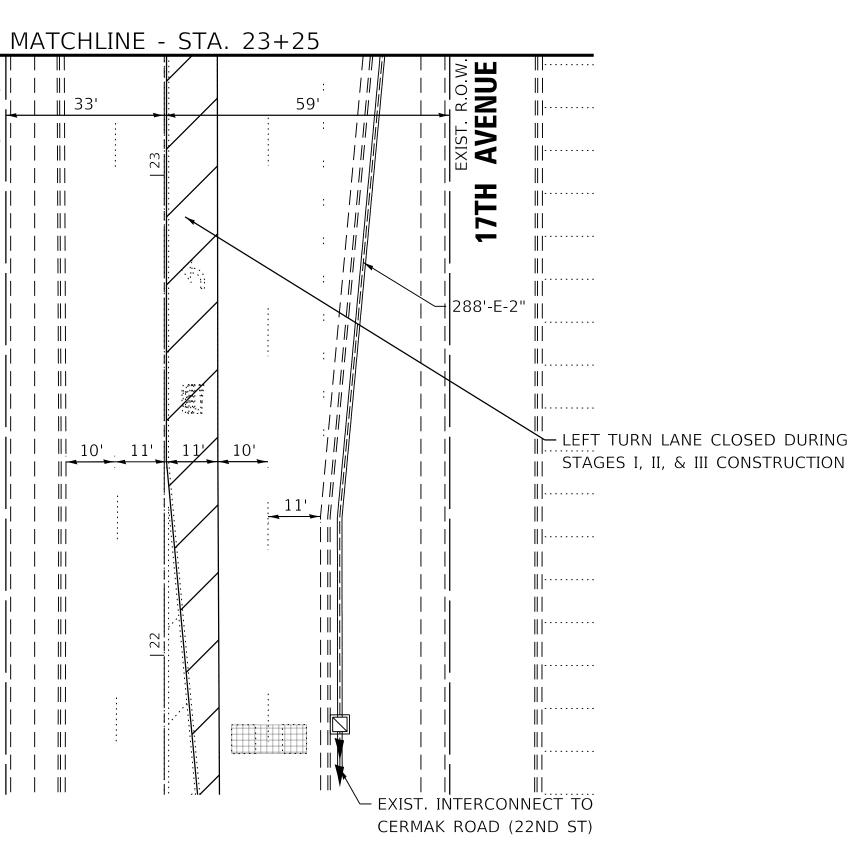
EXIST. R.O.W.

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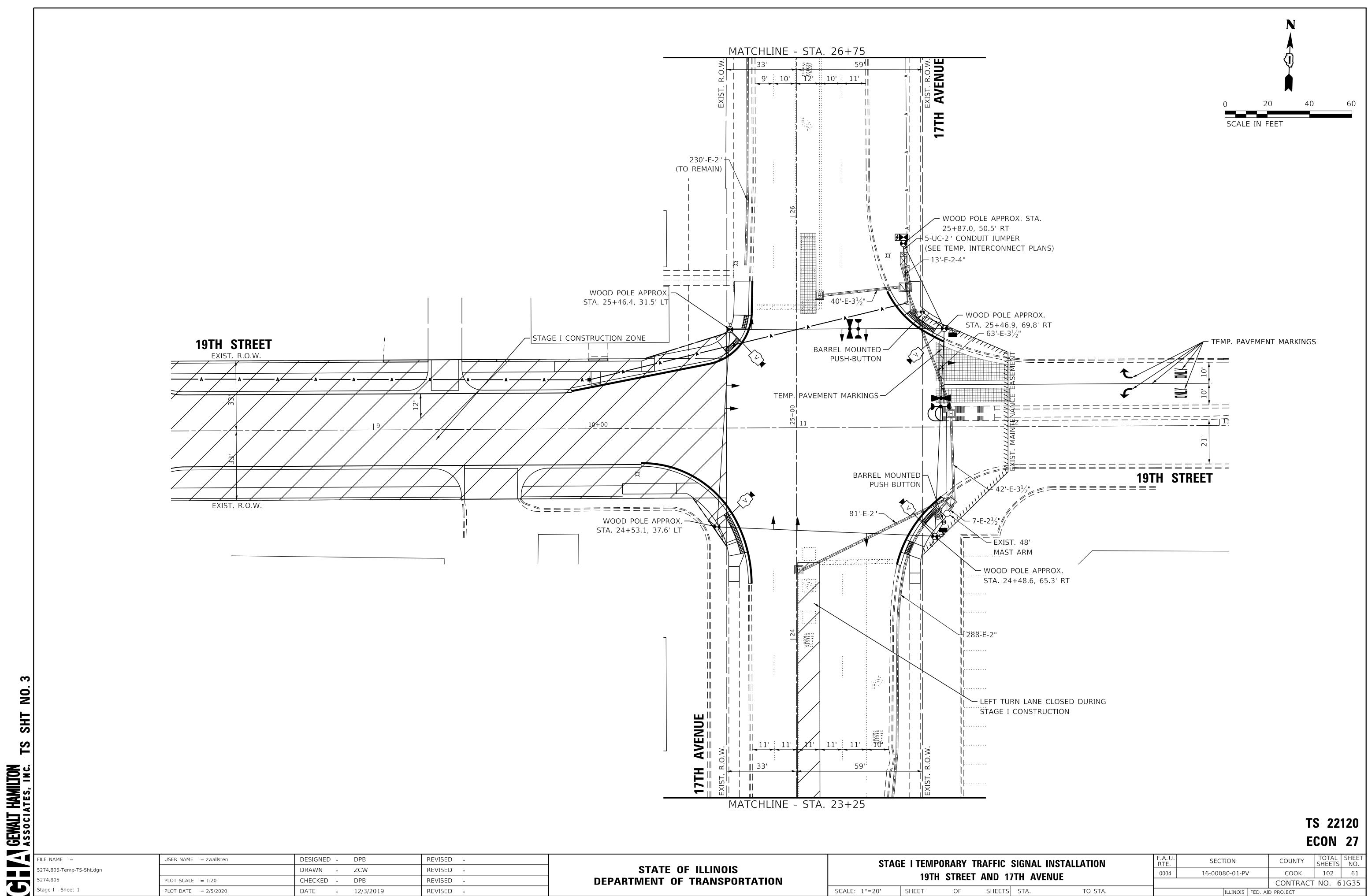
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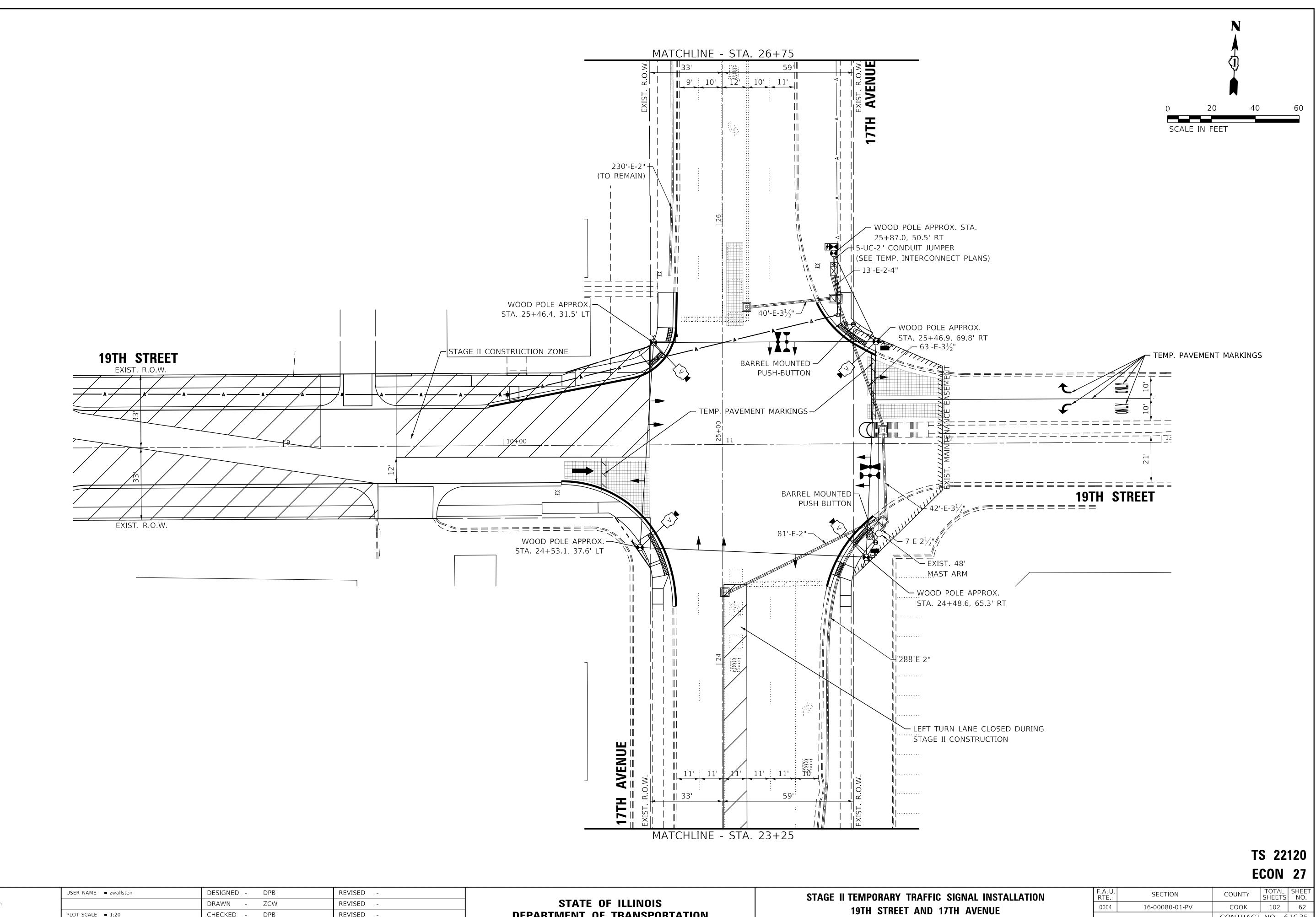
TS 22120 ECON 27

۱N	D STAGE	III TEMPORARY	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TH STREET AND 17TH AVENUE		0004	16-00080-01-PV	СООК	102	60	
THE STREET AND THE AVENUE					CONTRACT	NO. 6	1G35
TS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



G

; ;	SIGNAL INSTAL	LATION	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
17TH AVENUE		0004	16-00080-01-PV		СООК	102	61	
						CONTRACT	NO. 6	1G35
ΓS	STA.	TO STA.		ILLINOIS	FED. AI	d project		



NO SHT TS CEWALT HAMILTON BEVALT HAMILTON associates, inc.

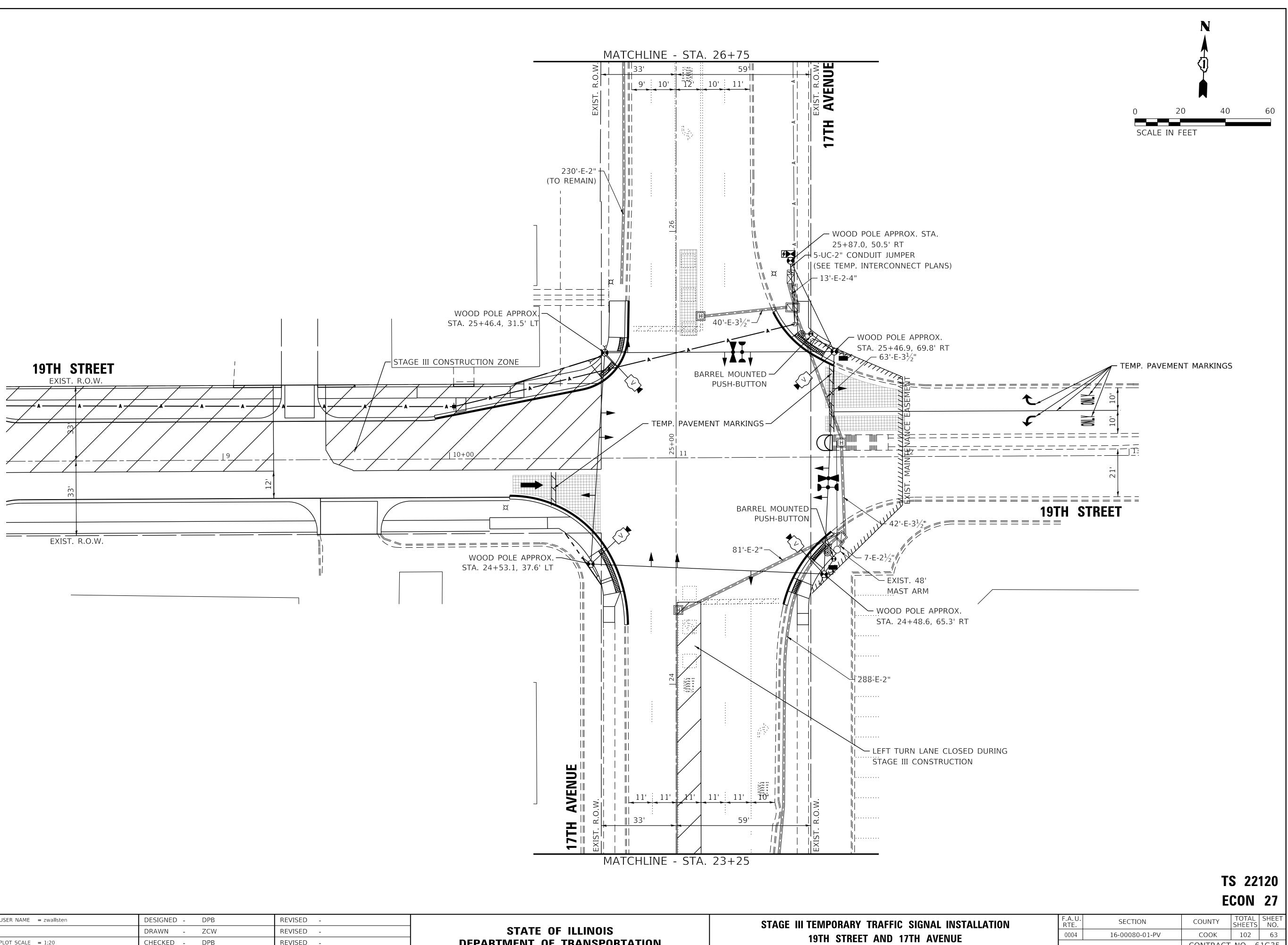
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FILE NAME =	USER NAME = zwallsten	DESIGNED - DPB	REVISED -
5274.805-Temp-TS-Sht.dgn		DRAWN - ZCW	REVISED -
5274.805	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
Stage II - Sheet 1	PLOT DATE = 2/5/2020	DATE - 12/3/2019	REVISED -

SHEET SCALE: 1"=20' OF

SHEETS

C SIGNAL II	NSTALLATION	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17TH AVENUE		0004	0004 16-00080-01-PV		102	62
				CONTRACT	NO. 6	1G35
rs sta.	TO STA.		ILLINOIS FE	D. AID PROJECT		



NO SHT TS G I V GEVALT HAMILTON ASSOCIATES, INC.

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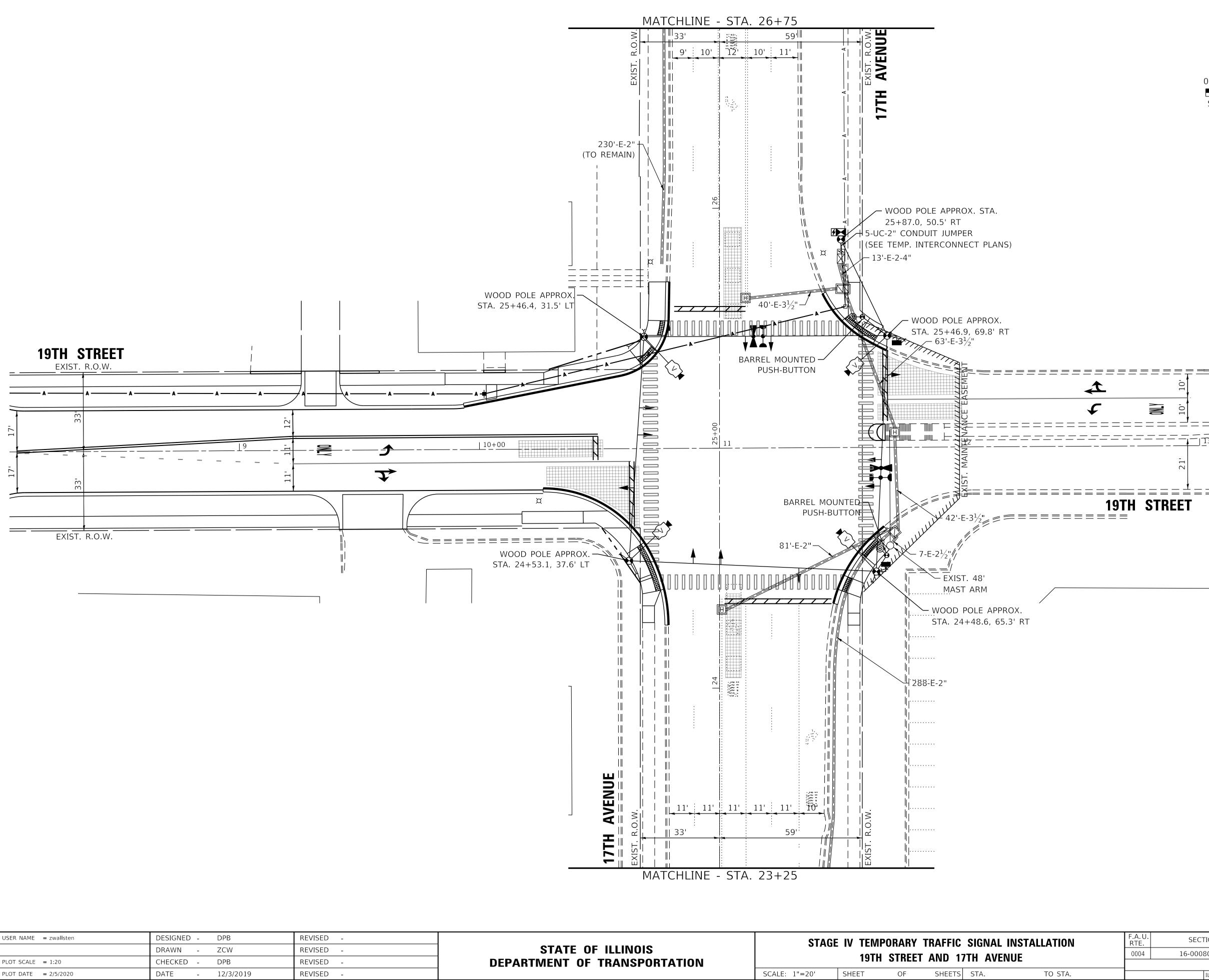
FILE NAME =	USER NAME = zwallsten	DESIGNED -	DPB	REVISED -
5274.805-Temp-TS-Sht.dgn		DRAWN -	ZCW	REVISED -
5274.805	PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
Stage III - Sheet 1	PLOT DATE = 2/5/2020	DATE -	12/3/2019	REVISED -

•		
DEPARTMENT	OF	TRANSPORTATION

SHEET SCALE: 1"=20' OF

SHEETS

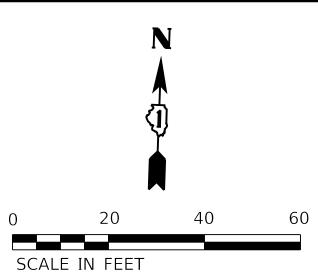
C	SIGNAL INST	ALLATION	F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
17TH AVENUE		0004	16-00080-01-PV		СООК	102	63		
							CONTRACT	NO. 6	1G35
TS	STA.	TO STA.			ILLINOIS	FED. AI	d project		



NO SHT TS GEVALT HAMILTON Associates, inc.

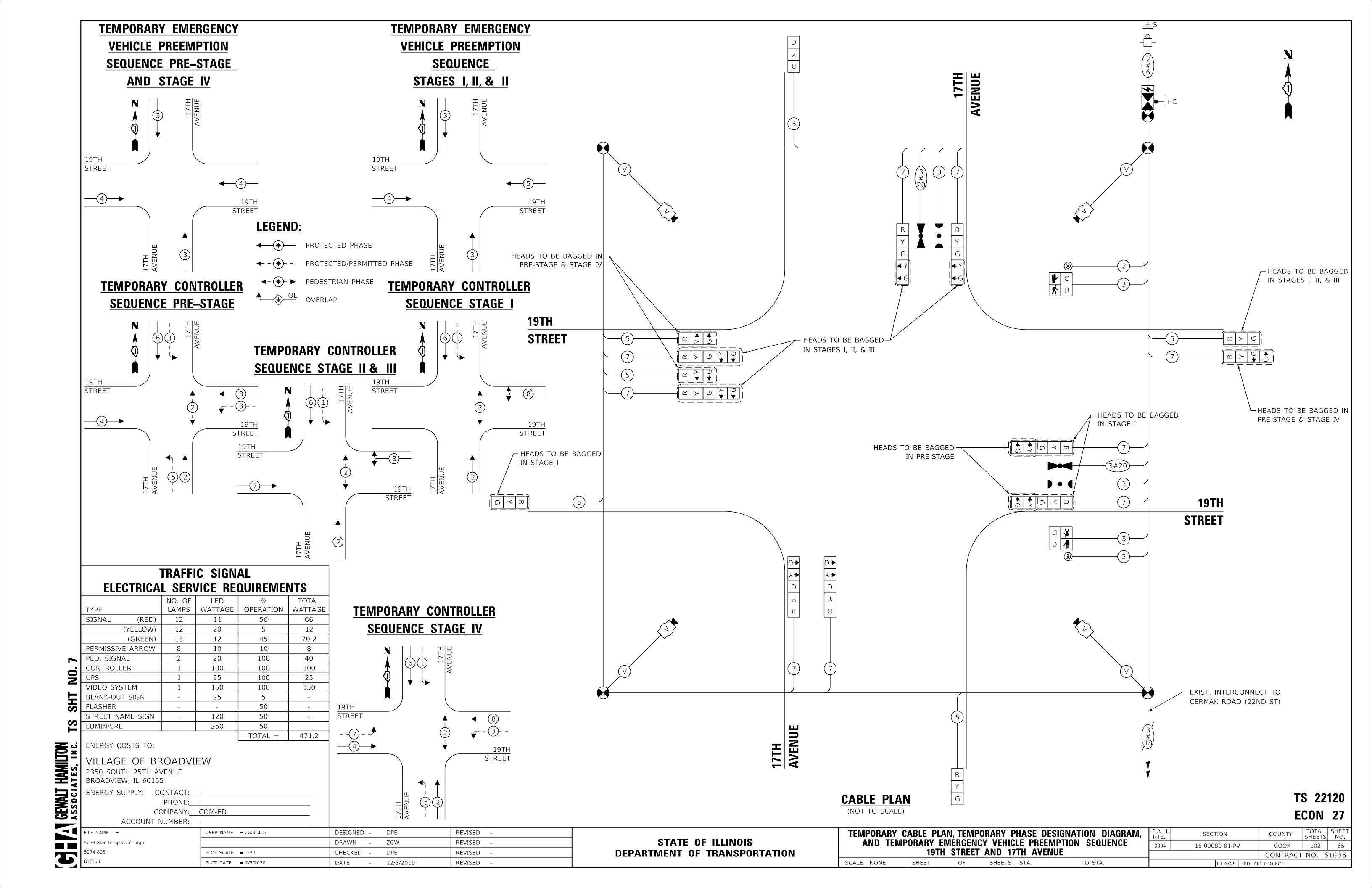
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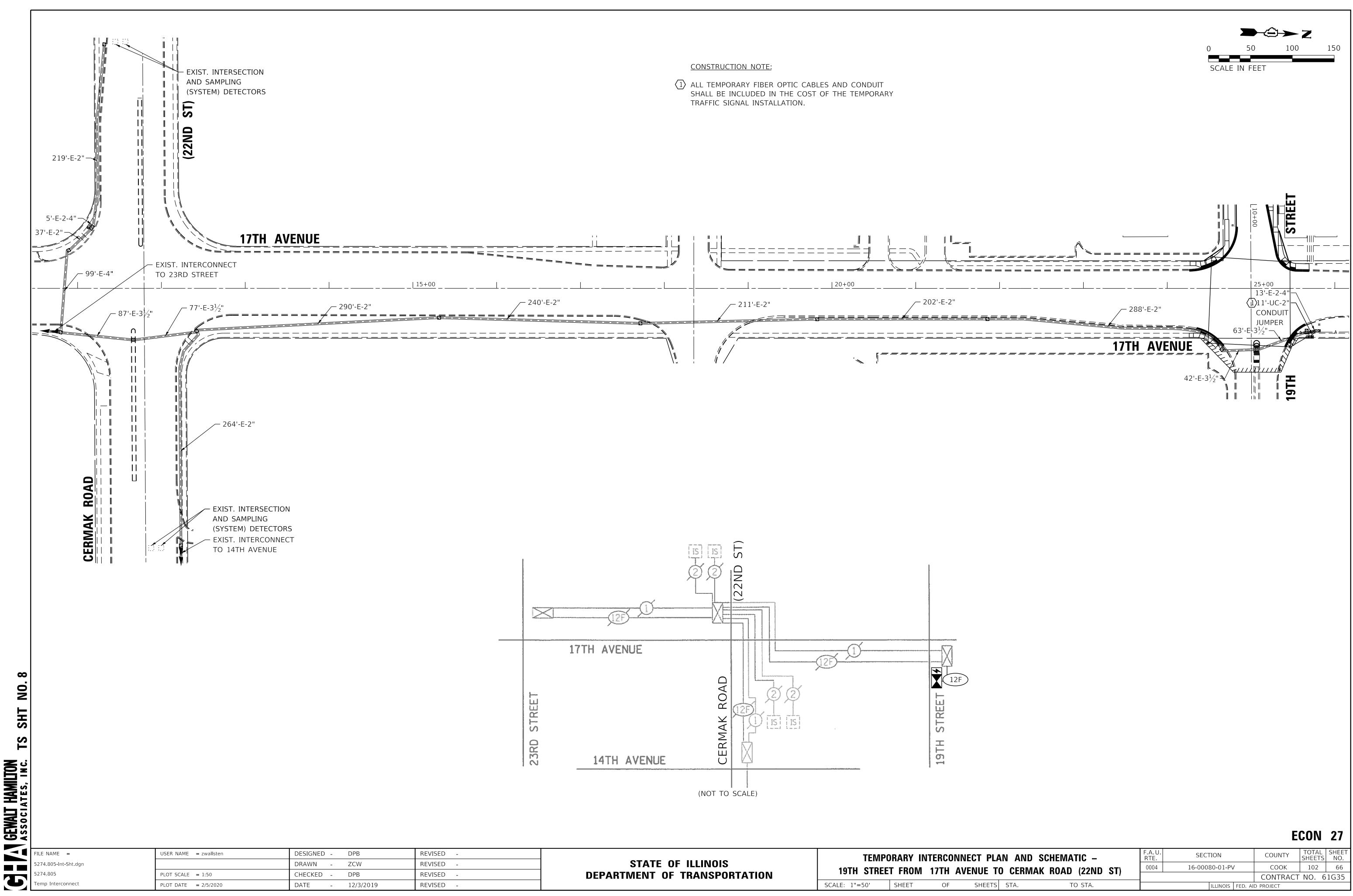
FILE NAME =	USER NAME = zwallsten	DESIGNED -	DPB	REVISED -
5274.805-Temp-TS-Sht.dgn		DRAWN -	ZCW	REVISED -
5274.805	PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
Stage IV - Sheet 1	PLOT DATE = 2/5/2020	DATE -	12/3/2019	REVISED -



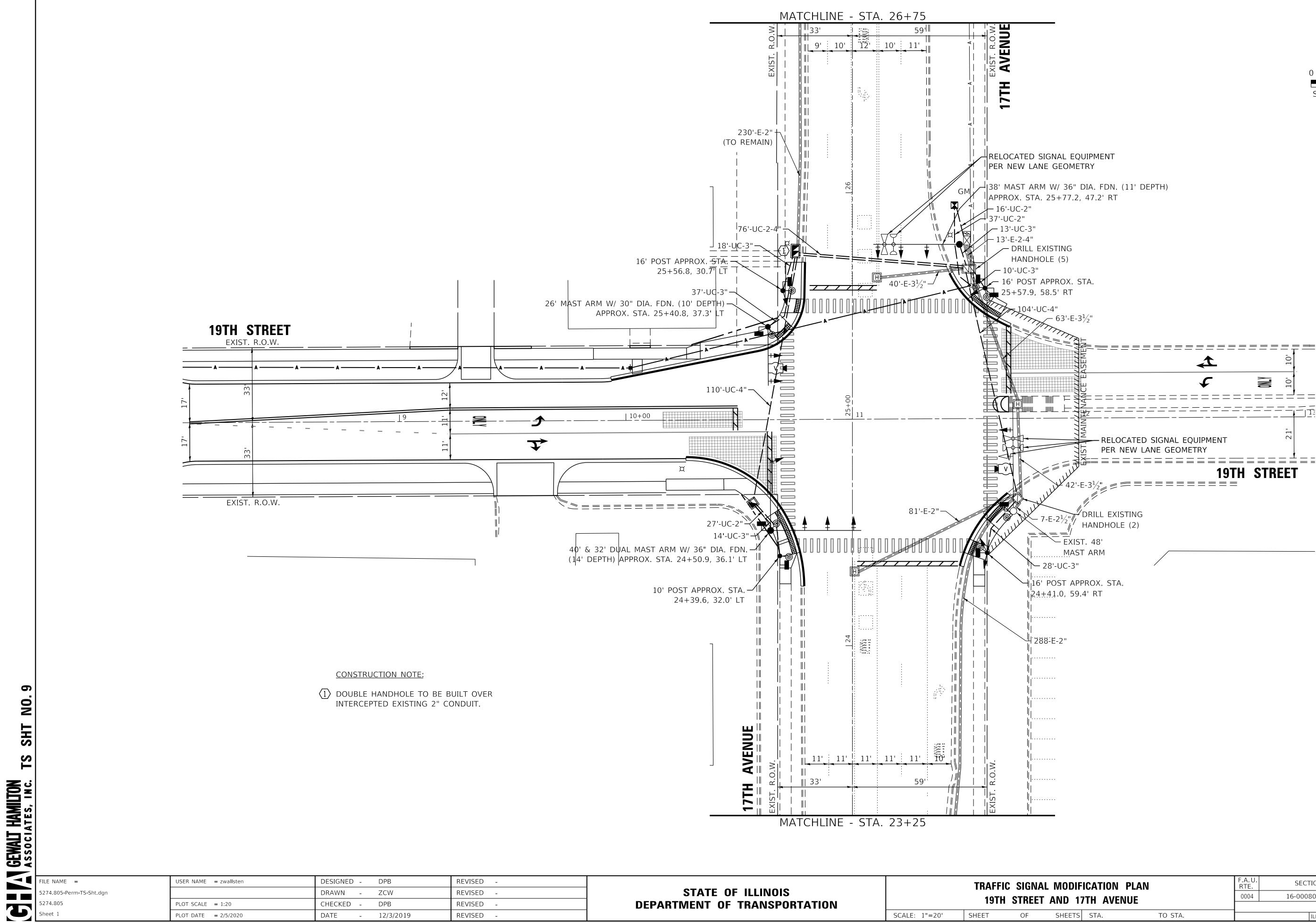
TS 22120 ECON 27

C SIGNAL	INSTALLATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17TH AVEN		0004	16-00080-01-PV	СООК	102	64
				CONTRACT	NO. 6	1G35
rs sta.	TO STA.		ILLINOIS FED. AI	d project		



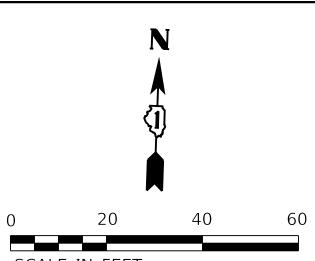


GEVALT HAMILTON Associates, inc.



ARTMENT OF TRANSPORTATION	
	SCALE: 1"=20'

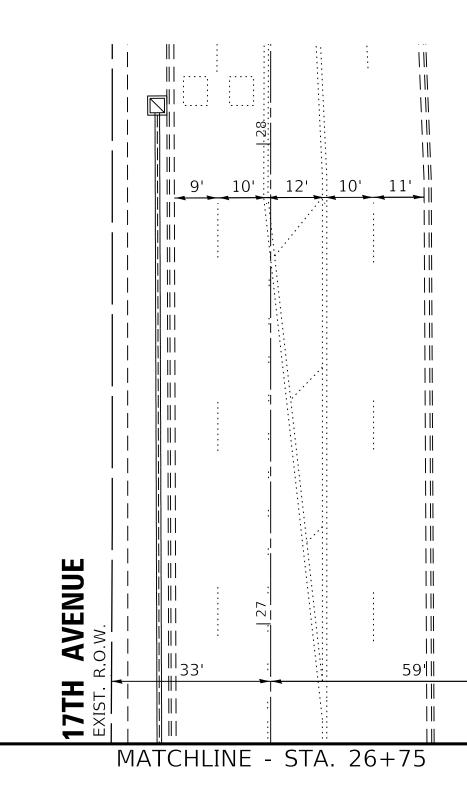
OF SHEETS



SCALE IN FEET

TS 22120 ECON 27

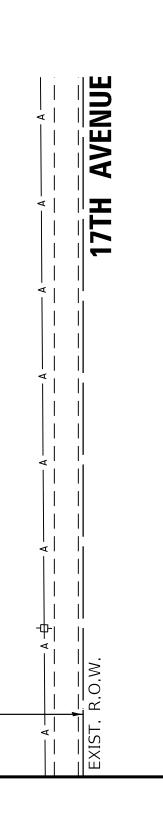
IFICATION PLAN		F.A.U. RTE.	SECTI	ION		COUNTY	TOTAL SHEETS	SHEET NO.
17TH AVENUE		0004 16-00080-01-PV			СООК	102	67	
						CONTRACT	NO. 6	1G35
S STA.	TO STA.		Ι	LLINOIS	FED. AI	D PROJECT		

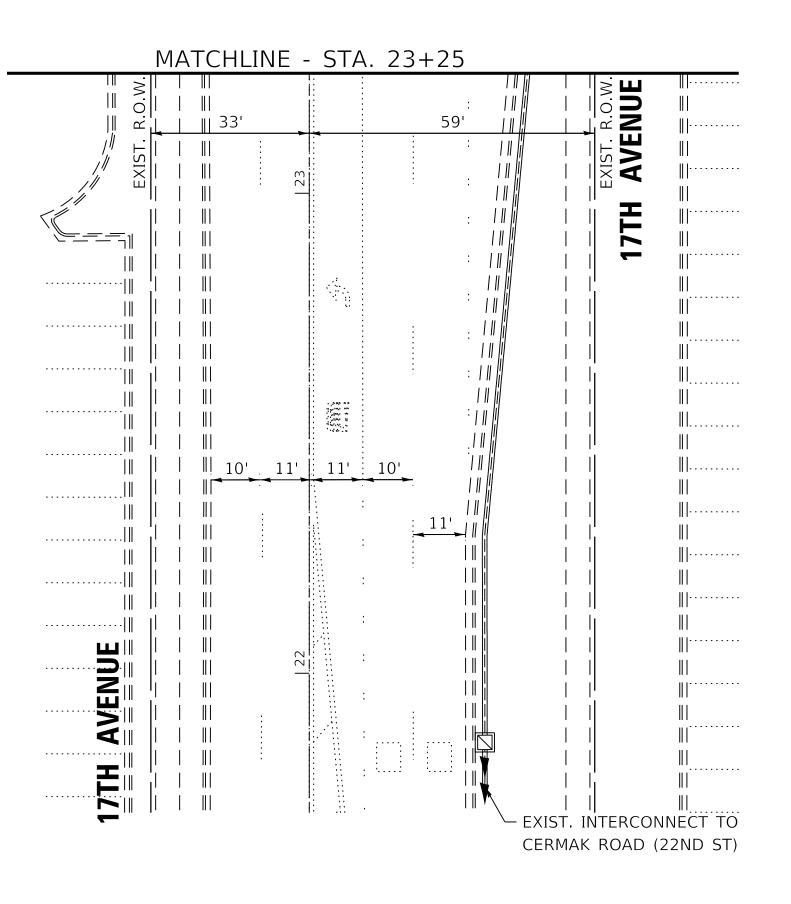


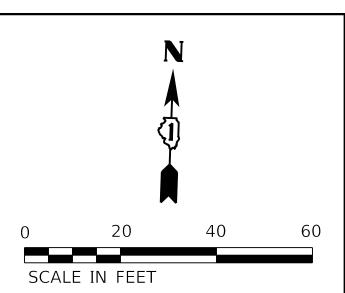
NO SHT TS GEWALT HAMILTON associates, inc.

10

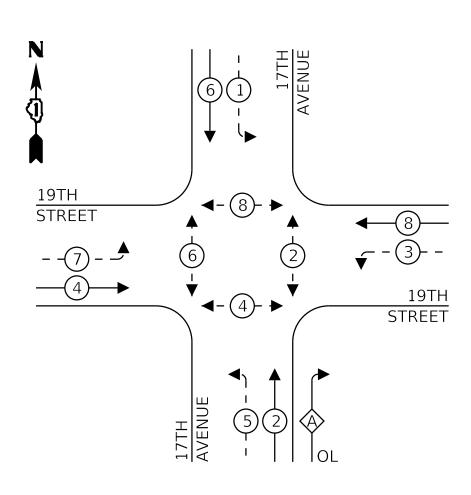
						TO 00404
						TS 22120
						ECON 27
AME =	USER NAME = zwallsten	DESIGNED - DPB	REVISED -		TRAFFIC SIGNAL MODIFICATION PLAN	F.A.U. SECTION COUNTY TOTAL SHE
	USER NAME = zwallsten	DESIGNED - DPB DRAWN - ZCW	REVISED - REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL MODIFICATION PLAN	RTE. SLETION COUNTY SHEETS NO
AME = 805-Perm-TS-Sht.dgn 805	USER NAME = zwallsten PLOT SCALE = 1:20			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN 19TH STREET AND 17TH AVENUE	F.A. U. RTE.SECTIONCOUNTYTOTAL SHEETSSHEETS000416-00080-01-PVCOOK10268CONTRACT NO. 61G35







PROPOSED CONTROLLER SEQUENCE



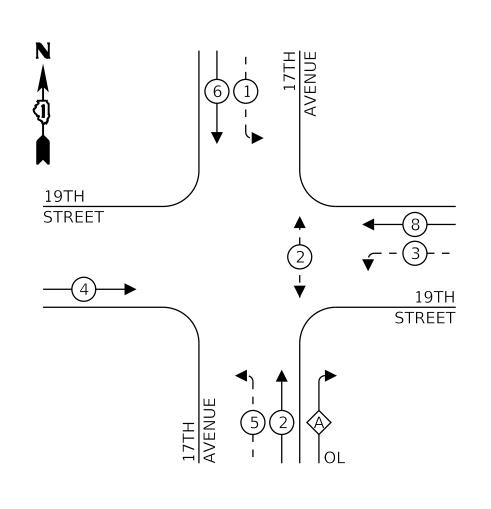
LEGEND:

← (*)	PROTECTED PHASE
∢ (*)	PROTECTED/PERMITTED PHASE
∢ - (*)- ►	PEDESTRIAN PHASE
	OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTED
LETTER		PHASE		PHASE
A	=	2	+	3

EXISTING CONTROLLER SEQUENCE



LEGEND:

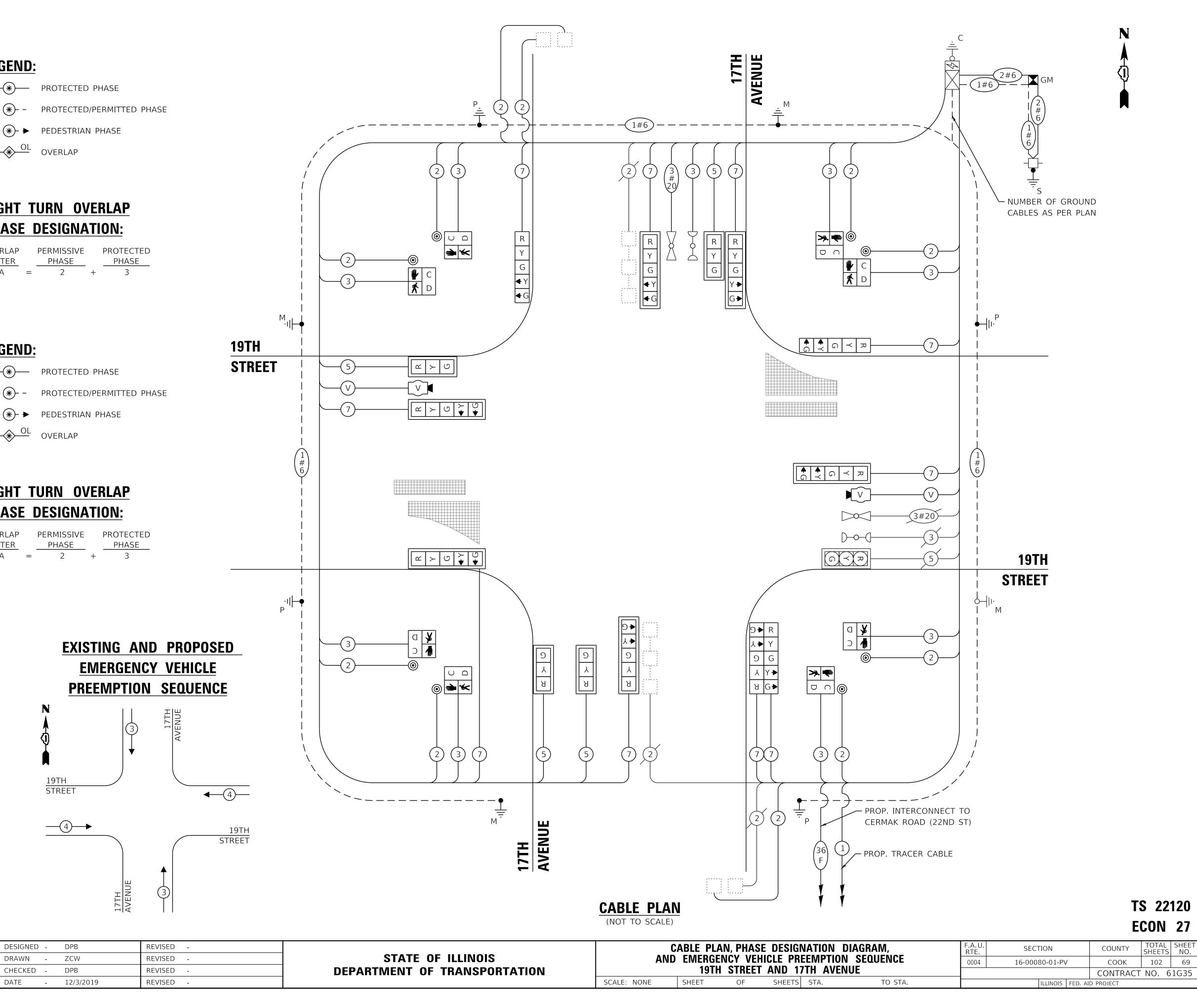
←	PROTECTED PHASE
← - (*)	PROTECTED/PERMITTED PHASE
∢ - (*)- ►	PEDESTRIAN PHASE
	OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSI
LETTER		PHASE
	_	

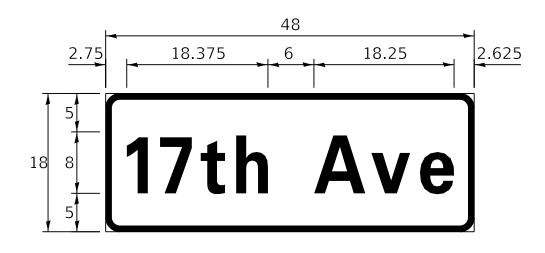
PROTECTED
PHASE
3

ELECTRICA		C SIGN		NITC
ELEGIKIGA	-			
ТҮРЕ	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	_	25	5	-
FLASHER	_	-	50	-
STREET NAME SIGN	_	120	50	-
LUMINAIRE	-	250	50	-
ENERGY COSTS TO: VILLAGE OF BR 2350 SOUTH 25TH AV BROADVIEW, IL 60155	/ENUE	EW	TOTAL =	483.5
ENERGY SUPPLY: CO	ONTACT:	-		
	PHONE:	_		
CC	MPANY:	COM-ED		
ACCOUNT N	IUMBER:	-		
FILE NAME =		USER NAME	= zwallsten	
5274.805-Perm-Cable.dgn				
5274.805		PLOT SCALE	= 1:20	
Default		PLOT DATE	= 2/5/2020	

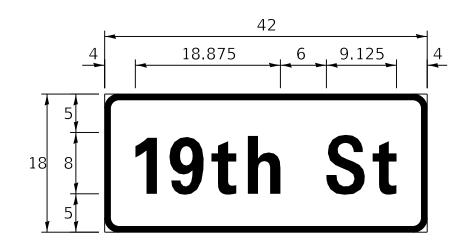


<u>SIGN PANEL – TYPE 1</u>

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	D 6 1		ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	5.25	1	ZZ	2

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



FILE NAME =	USER NAME = zwallsten	DESIGNED -	DPB	REVISED -
5274.805-SOQ.dgn		DRAWN -	ZCW	REVISED -
5274.805	PLOT SCALE = 1:20	CHECKED -	DPB	REVISED -
Default	PLOT DATE = 2/5/2020	DATE -	12/3/2019	REVISED -

NO SHT

12

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOT, QT
SIGN PANEL - TYPE 1	SQ FT	22.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	80
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	36
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	83
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,8
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,2
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	60
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.		1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 40 FT.	EACH	
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	98
ROD AND CLEAN EXISTING CONDUIT	FOOT	16
VIDEO DETECTION SYSTEM	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

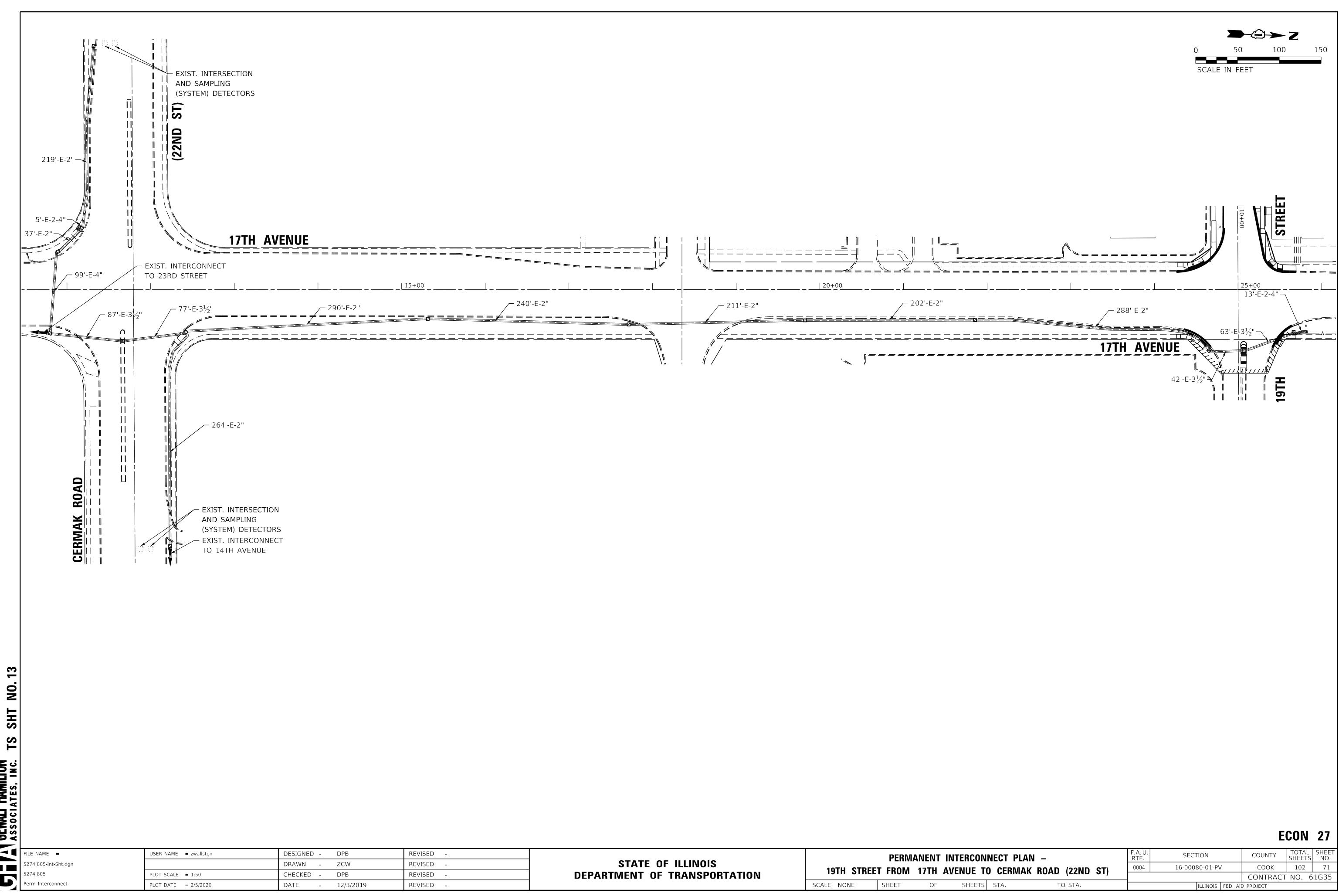
* QUANTITY USED AS NEEDED

** 100% COST TO THE VILLAGE OF BROADVIEW

	N	IAST ARM	MOUN	FED STI
STATE OF ILLINOIS			SCHEDL	
DEPARTMENT OF TRANSPORTATION		19TH	STREET	AND 17
	SCALE: NONE	SHEET	OF	SHEETS

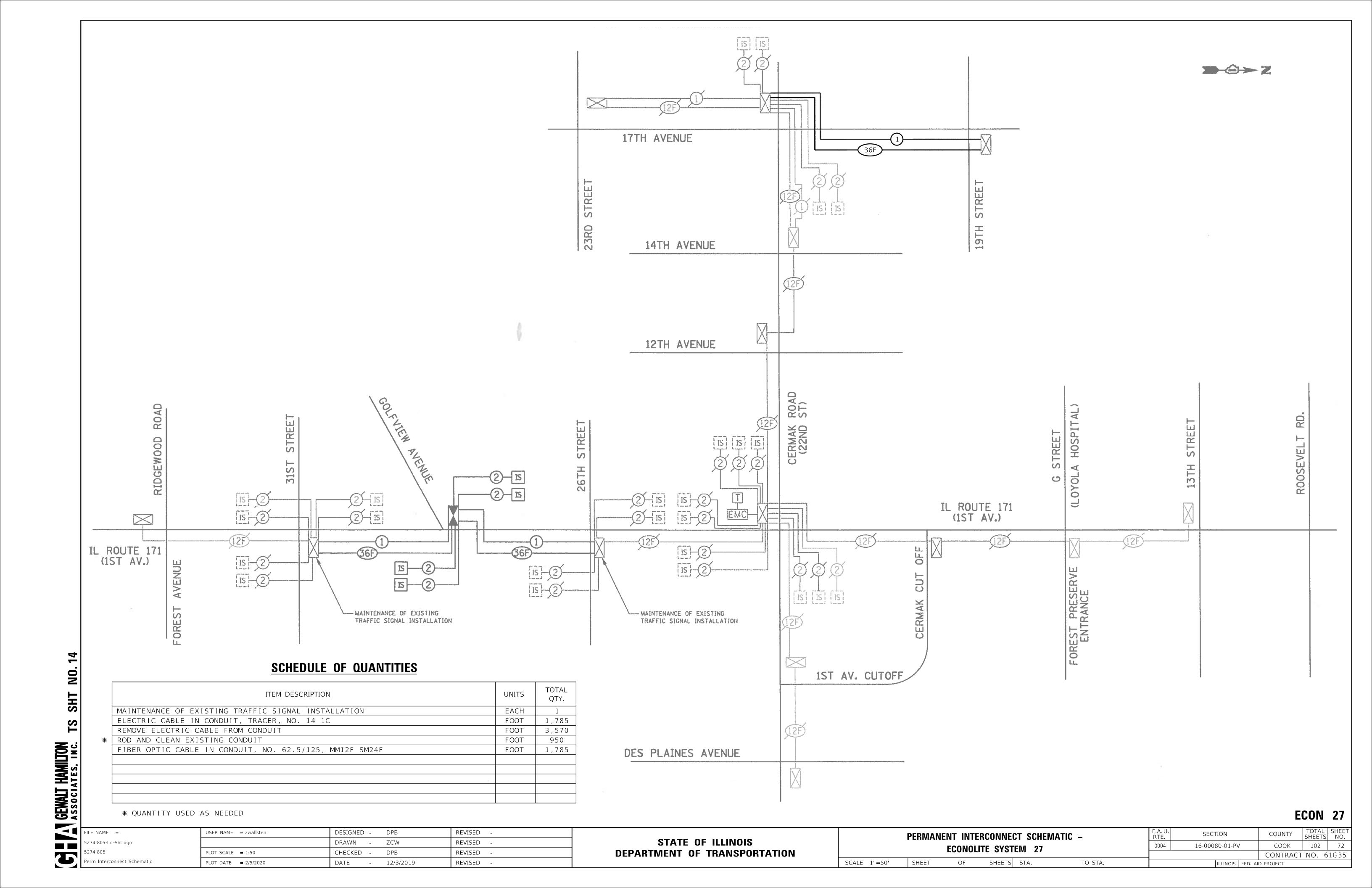
TS 22120 ECON 27

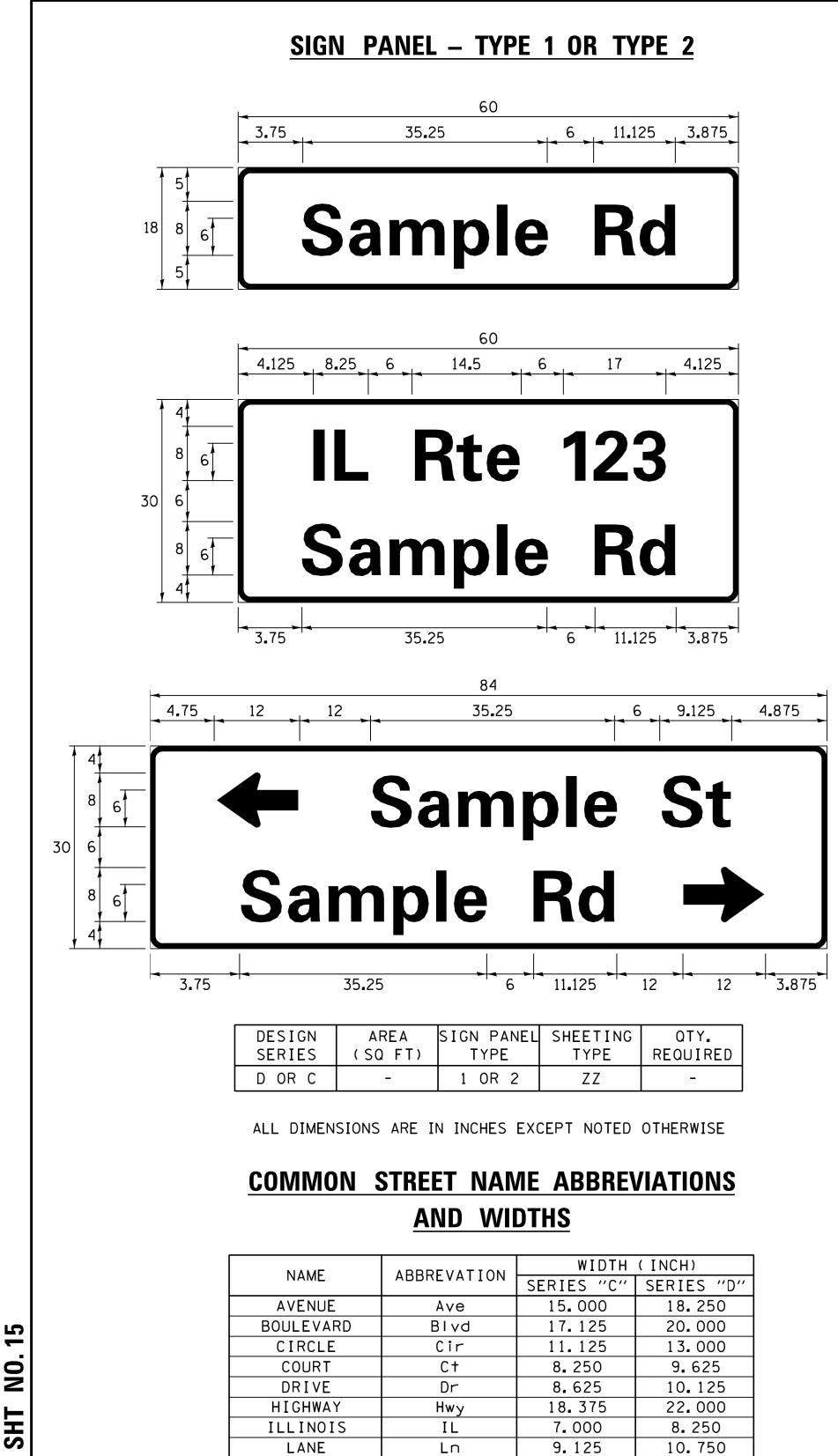
TREET NAME SIGNS F QUANTITIES		F.A.U. RTE.			COUNTY	TOTAL SHEETS	SHEET NO.		
		0004	0004 16-00080-01-PV		/	СООК	102	70	
17TH AVENUE							CONTRACT	NO. 6	1G35
TS	STA.	TO STA.			ILLINOIS	FED. AII	D PROJECT		



G V GEWALT HAMILTON Associates, inc.

	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PERMANENT INTERCO 19TH STREET FROM 17TH AVENUE			
		SCALE: NONE	SHEET	OF	SHEET





PARKWAY

PLACE

ROAD

ROUTE

STREET

TERRACE

TRAIL

UNITED STATES

23.375

7.125

9.625

12.625

8.000

12.625

7.750

10.375

Pkwy

ΡΙ

Rd

Rte

S†

Ter

Tr

US

27.375

7.750

11.125

14.500

9.125

14.625

9.125

12.250

B



FILE NAME =	USER NAME = zwallsten	DESIGNED - LP/IP	REVISED - LP 07/01/2015				DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
IDOT-StdDetails.dgn		DRAWN - ta\C AP sheets\ts02.dgn	REVISED -	STATE OF ILLINOIS		MAST ARM M	IOUNTED STREET N	IAME SIGNS		16-00080-01-PV	СООК	102 73
5274.805	PLOT SCALE = 1:1	CHECKED - IP	REVISED -	DEPARTMENT OF TRANSPORTATION						TS-02	CONTRACT	Г NO. 61G35
IDOT D1 STANDARD TS02	PLOT DATE = $2/5/2020$	DATE - 10/01/2014	REVISED -		SCALE:	SHEET OF	F SHEETS STA.	TO STA.		ILLINOIS FED. /	AID PROJECT	

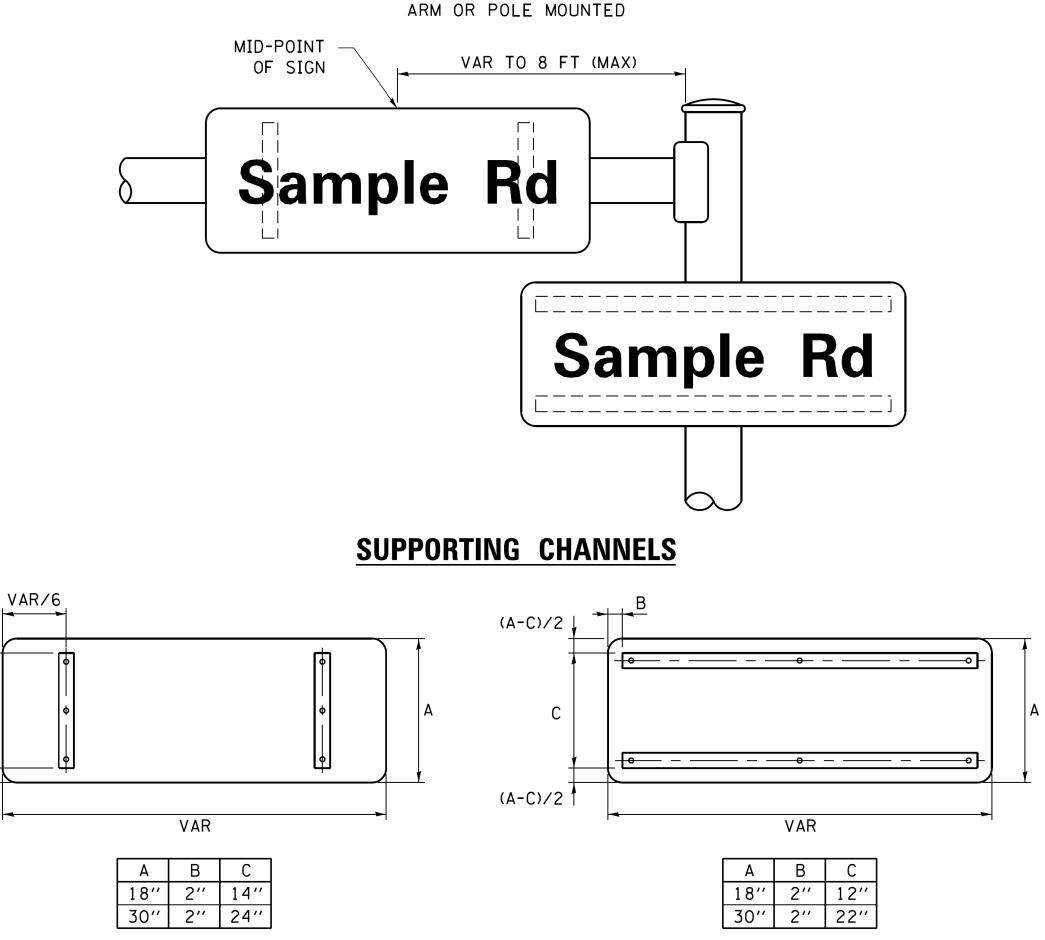
GENERAL NOTES

- 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" × 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'-O''. ALL BORDERS SHALL BE $\frac{3}{4}$ " 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'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" 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:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL SIGN SCREWS	PART #HPN053 (MED. CHANNEL) 1/4'' × 14 × 1'' H.W.H. #3
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	SELF TAPPING WITH NEOPRENE WASHER PART #HPNO34 (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



STANDARD ALPHABETS SPACING CHART

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

LEFT (INCH) WIDTH (INCH) RIGHT (INCH) A 0.240 5.122 0.240 A 0.960 5.446 0.400 C 0.720 4.482 0.720 C 0.800 5.446 0.800 H 0.880 1.024 0.880 I 0.960 5.446 0.960 J 0.240 4.082 0.880 J 0.240 5.644 0.400 K 0.880 1.22 0.720 L 0.960 5.446 0.400 J 0.240 4.422 0.720 D 0.800 5.644 0.400 D 0.880 </th <th></th> <th>FHWA SEF</th> <th>RIES "C"</th> <th></th> <th colspan="6">FHWA SERIES "D"</th>		FHWA SEF	RIES "C"		FHWA SERIES "D"					
B 0.880 4.482 0.720 C 0.800 5.446 0.800 C 0.720 4.482 0.720 D 0.960 5.446 0.800 E 0.880 4.082 0.720 D 0.960 5.446 0.800 F 0.880 4.082 0.720 C 0.960 4.962 0.240 G 0.720 4.482 0.880 H 0.960 1.962 0.240 H 0.880 1.120 0.880 H 0.960 1.280 0.960 J 0.240 4.082 0.880 K 0.960 4.962 0.240 L 0.980 4.482 0.880 M 0.960 5.446 0.960 N 0.880 4.482 0.880 M 0.960 5.446 0.240 N 0.880 4.482 0.480 N 0.960 5.446 0.240 N 0.880 4.482 0.480 <td>IARACTER</td> <td>SPACING</td> <td></td> <td>SPACING</td> <td>CHARACTER</td> <td>SPACING</td> <td></td> <td>SPACING</td>	IARACTER	SPACING		SPACING	CHARACTER	SPACING		SPACING		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Α	0.240	5.122	0.240	Α	0.240	6.804	0.240		
	В	0.880	4.482	0.480		0.960	5.446	0.400		
E 0.880 4.082 0.920 F 0.960 4.962 0.240 F 0.960 4.962 0.240 F 0.960 4.962 0.240 H 0.880 4.482 0.720 G 0.800 5.446 0.960 J 0.240 4.482 0.880 H 0.960 5.122 0.960 L 0.880 4.482 0.480 K 0.960 5.644 0.400 L 0.880 4.982 0.240 L 0.960 5.446 0.240 M 0.880 4.482 0.880 M 0.960 5.446 0.240 M 0.880 4.482 0.480 N 0.960 5.446 0.240 Q 0.720 Q 0.800 5.644 0.400 0.240 4.962 0.240 Q 4.482 0.480 S 0.400 5.644 0.400 0.400 Q 0.240 4.922 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
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H 0.880 4.482 0.880 H 0.960 5.446 0.960 I 0.880 I 0.960 I.280 0.960 J 0.240 4.082 0.880 J 0.240 5.122 0.960 K 0.880 4.082 0.840 K 0.960 5.122 0.960 M 0.880 5.284 0.880 M 0.960 5.446 0.960 N 0.880 4.432 0.720 P 0.960 5.684 0.800 P 0.880 4.432 0.720 P 0.960 5.446 0.400 S 0.480 4.432 0.480 R 0.960 5.446 0.400 S 0.480 4.432 0.480 R 0.960 5.446 0.240 U 0.880 4.432 0.480 N 0.240 1.240 3.242 V 0.240 4.122 0.240 N 0.240										
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M 0.880 5.284 0.880 M 0.960 6.244 0.960 N 0.880 4.482 0.880 N 0.960 5.644 0.960 P 0.880 4.482 0.720 P 0.960 5.446 0.240 0 0.720 4.722 0.720 0 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 U 0.880 4.482 0.480 S 0.400 5.446 0.960 V 0.240 4.922 0.240 Y 0.240 6.084 0.240 X 0.240 4.722 0.240 Y 0.240 6.884 0.240 Z 0.480 4.022 0.480 Z 0.400 5.446 0.400 Q 0.480 1.722 0.240 <td>К</td> <td>0.880</td> <td>4.482</td> <td>0.480</td> <td>K</td> <td>0.960</td> <td>5.604</td> <td>0.400</td>	К	0.880	4.482	0.480	K	0.960	5.604	0.400		
N 0.880 4.482 0.880 N 0.960 5.446 0.960 P 0.880 4.482 0.720 P 0.960 5.446 0.800 R 0.880 4.482 0.720 P 0.960 5.446 0.400 S 0.480 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 U 0.240 4.952 0.240 T 0.240 4.962 0.240 W 0.240 4.962 0.240 V 0.240 5.446 0.400 X 0.240 4.962 0.240 V 0.240 5.446 0.400 X 0.240 6.084 0.240 W 0.240 5.446 0.400 X 0.240 6.0240 W 0.240 5.446 0.400 Z 0.480 4.922 0.720 D.480 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
0 0.720 4.722 0.720 P 0.880 5.684 0.800 P 0.880 4.432 0.720 P 0.960 5.446 0.240 0 0.720 4.722 0.720 0 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 W 0.240 4.962 0.240 W 0.240 7.124 0.240 X 0.240 4.122 0.240 X 0.400 5.446 0.400 Y 0.240 5.122 0.240 X 0.400 5.446 0.400 Z 0.480 4.020 0.240 C 0.400 4.522 0.720 D 0.720 4.082 0.720 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
P 0.880 4.482 0.720 P 0.960 5.446 0.240 0 0.720 4.722 0.720 0 0.800 5.684 0.800 R 0.880 4.482 0.480 S 0.400 5.446 0.400 S 0.480 4.482 0.480 S 0.400 5.446 0.400 T 0.240 4.962 0.240 T 0.240 6.084 0.240 W 0.240 4.482 0.880 U 0.960 5.446 0.960 Y 0.240 4.482 0.240 Y 0.240 5.446 0.240 X 0.240 5.122 0.240 Y 0.240 5.446 0.400 G 0.320 3.842 0.480 Z 0.400 4.562 0.720 D 0.720 4.082 0.720 d 0.480 4.802 0.800 C 0.480 4.082 0.720 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
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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 U 0.240 4.962 0.240 T 0.240 4.962 0.240 W 0.240 4.962 0.240 V 0.240 5.446 0.960 V 0.240 4.962 0.240 W 0.240 5.446 0.240 X 0.240 4.722 0.240 X 0.400 5.446 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 d 0.480 4.082 0.720 d 0.480 4.802 0.800 c 0.480 4.082 0.720 g 0.480 4.822 0.800 d 0.480 4.082 0.720 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
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		0.290	2.002	0.240		0.290	2.002	0.290		

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	СС
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	ммс
UNINTERRUPTABLE POWER SUPPLY	4	¥
SERVICE INSTALLATION -(P) POLE MOUNTED	- <u></u> -	- ∎- ^P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	G M GM
TELEPHONE CONNECTION	ET	Т
STEEL MAST ARM ASSEMBLY AND POLE	0	•
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	$\dot{\mathbf{O}}$	•*
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	• • BM
WOOD POLE	\otimes	Θ
GUY WIRE	\succ	\succ
SIGNAL HEAD		-
SIGNAL HEAD WITH BACKPLATE	$+ \triangleright$	+►
SIGNAL HEAD OPTICALLY PROGRAMMED		
FLASHER INSTALLATION -(FS) SOLAR POWERED		●● F ●● FS
		-
PEDESTRIAN SIGNAL HEAD	-[]	-
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	Ø Ø 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	\bowtie	
CONFIMATION BEACON	o(]	
WIRELESS INTERCONNECT	○++ + <u>+</u> +	●·+++++
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

G V GEWALT HAMILTON Associates, inc. TS SHT NO.

16

FILE NAME =	USER NAME = zwallsten	DESIGNED -	IP	REVISED -
DOT-StdDetails.dgn		DRAWN -	IP	REVISED -
5274.805	PLOT SCALE = 1:1	CHECKED -	LP	REVISED -
DOT D1 STANDARD TS05a	PLOT DATE = 2/5/2020	DATE -	9/29/2016	REVISED -

TRAFFIC SIGNAL LEGEND

	(NOT TO SCALE)				
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	$\begin{array}{c} R \\ P \\ G \\ \hline \end{array} \\ \hline \\ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \\ \\ \hline \end{array} \\ \hline \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \\ \hline \end{array} \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\$	$ \begin{array}{cccc} R & R \\ Y & Y \\ G & G \\ \bullet Y & \bullet Y \\ \bullet G & \bullet G \\ \end{array} $
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H (H)	E B			 G G G G G F
DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		R R R
JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	$\begin{array}{c} \mathbb{R} \\ \mathbb{R} \\ \mathbb{P} \\ \mathbb{C} \\ $	
RAILROAD CANTILEVER MAST ARM	X ox X	XeX X			$\begin{array}{c} \mathbf{G} \\ \mathbf{G} \\ \mathbf{A}\mathbf{Y} \\ \mathbf{A}\mathbf{G} \\ \mathbf{A}\mathbf{G} \\ \mathbf{G} \\ \mathbf{G}$
RAILROAD FLASHING SIGNAL	XoX	X•X		P RB	
RAILROAD CROSSING GATE	$X \rightarrow X \rightarrow X$		PEDESTRIAN SIGNAL HEAD		
RAILROAD CROSSBUCK	Ť	Ť	AT RAILROAD INTERSECTIONS		₩ *
RAILROAD CONTROLLER CABINET	R R		PEDESTRIAN SIGNAL HEAD	C C C	₩ C ★ D
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			WITH COUNTDOWN TIMER		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	(5)	5
INTERSECTION ITEM	Ι	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED		C
REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	<u> (1) </u>	(1)
ABANDON ITEM		A		$\widetilde{\mathbf{A}}$	
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE		— <u>c</u> —
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	<u> 6#18 </u>
DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F	12F	-(12F)
PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM24F	24F)	-(24F)
SAMPLING (SYSTEM) DETECTOR		s s		36F	
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)	GROUND ROD	C M P S	C M P S
QUEUE AND SAMPLING (SYSTEM) DETECTOR		os os	-(C) CONTROLLER -(M) MAST ARM -(P) POST		$\stackrel{\underline{:}C}{=} \stackrel{\underline{:}M}{=} \stackrel{\underline{:}P}{=} \stackrel{\underline{:}S}{=}$
WIRELESS DETECTOR SENSOR		\odot	-(S) SERVICE		
WIRELESS ACCESS POINT					

DISTRICT O Standard traffic signa

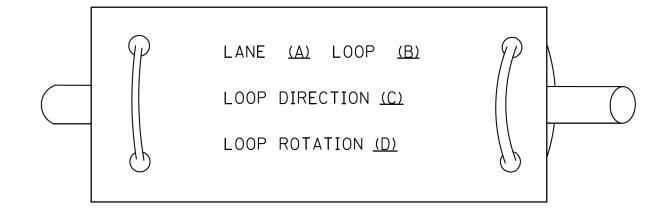
SHEET 1 OF 7 SHEETS

10	ONE		F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
IAL DESIGN DETAILS			16-0008	30-01-PV	,	СООК	102	74	
			TS05			CONTRACT	NO. 6	1G35	
TS	STA. TO S	STA.			ILLINOIS	FED. AII	d project		

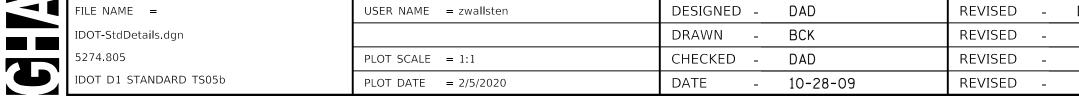
LOOP DETECTOR NOTES

- 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

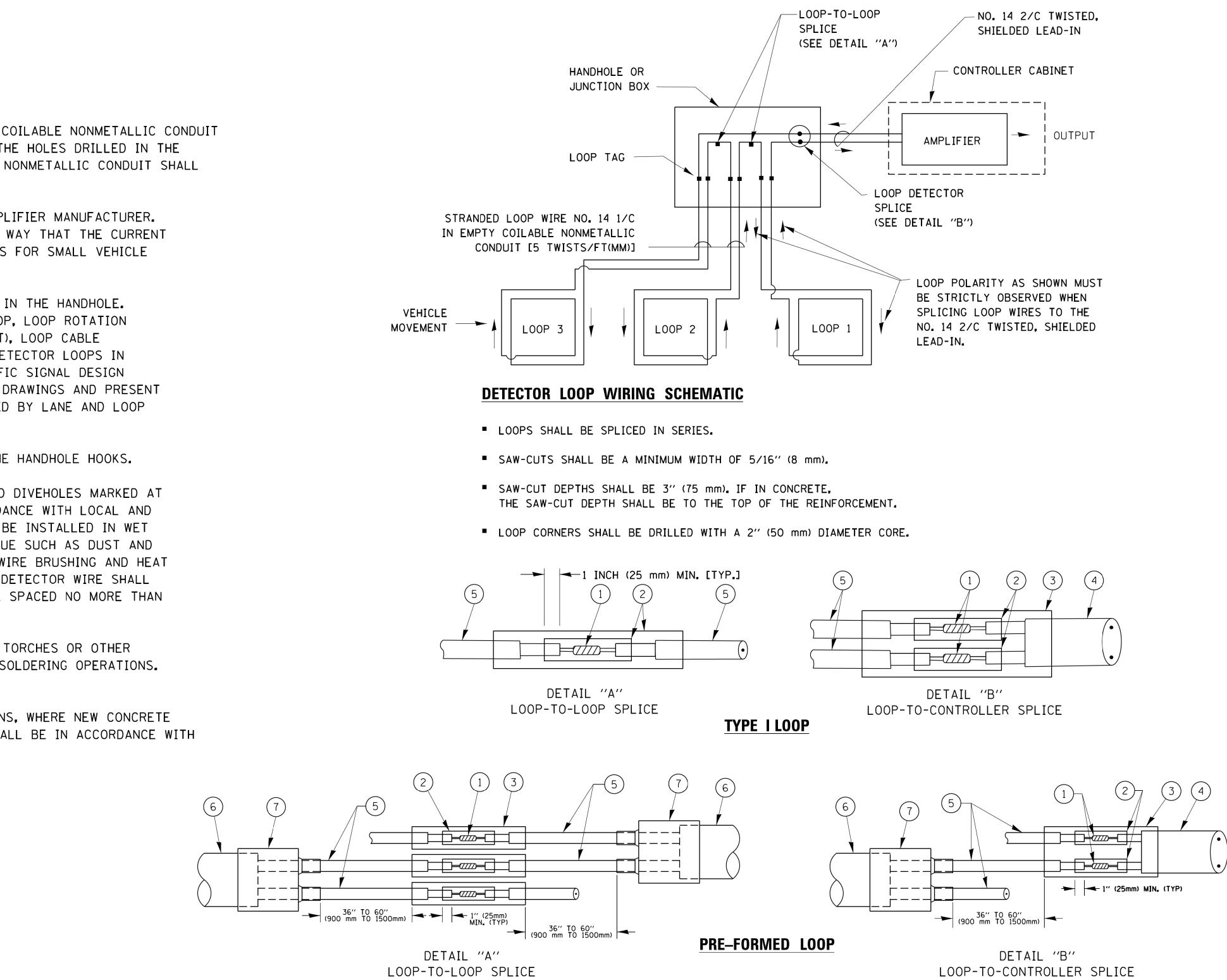


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



NO SHT TS GEWALT HAMILTON Associates, inc.

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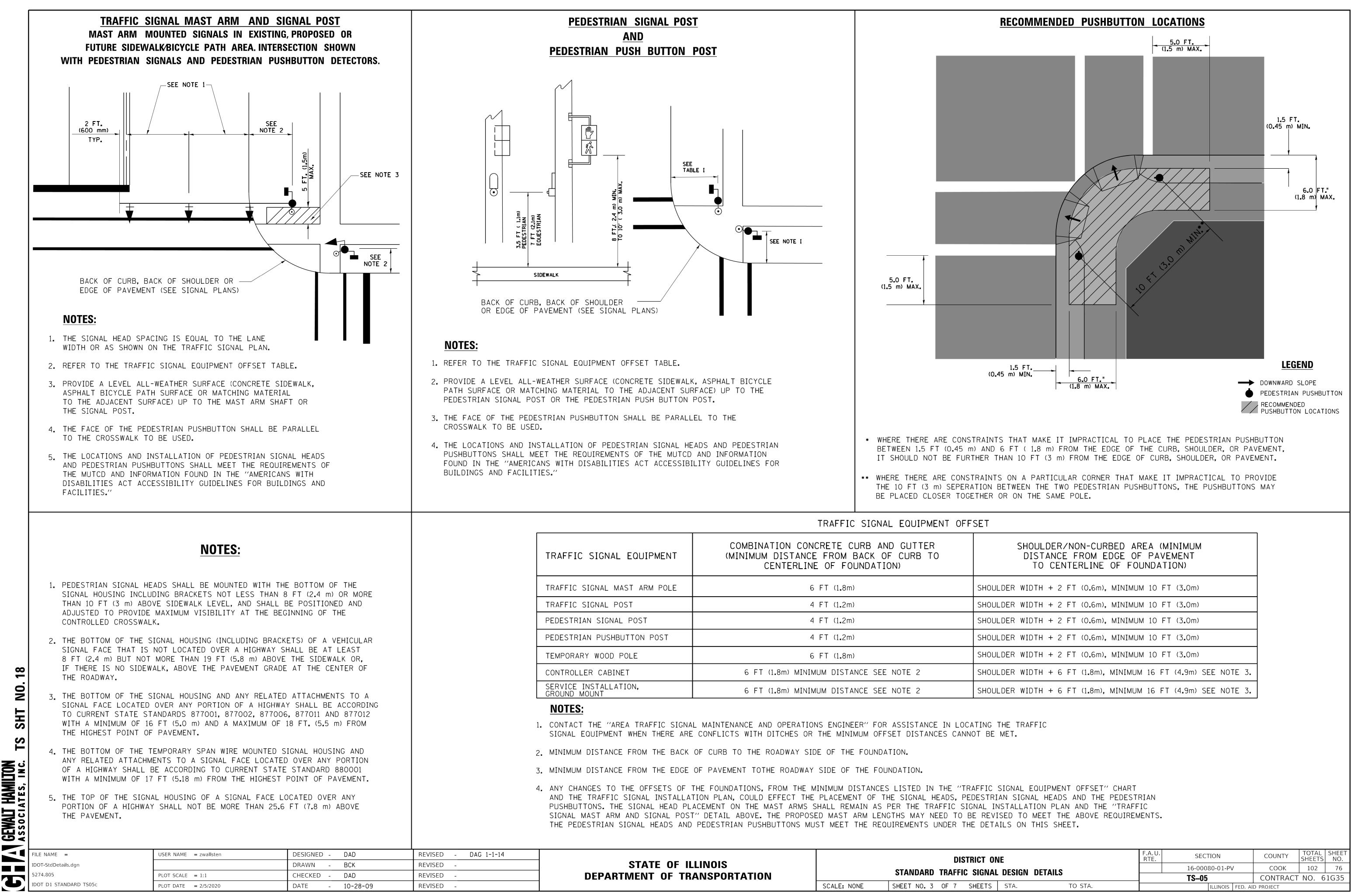
LOOP DETECTOR SPLICE

WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUR OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

			r	DISTRICT O
	STATE OF ILLINOIS		STANDARD TRAF	
DEPARTN	IENT OF TRANSPORTATION	SCALE: NONE	SHEET NO. 2 OF 7	

	5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	XL POLYOLEFIN 2 CONDUCTOR
R GRADE.	<pre>XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL</pre>

ONE IAL DESIGN DETAILS		F.A.U. RTE.	SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.	
			16-000	80-01-PV	'	СООК	102	75	
			TS–05			CONTRACT	NO. 6	1G35	
S	STA.	TO STA.			ILLINOIS	FED. All	d project		

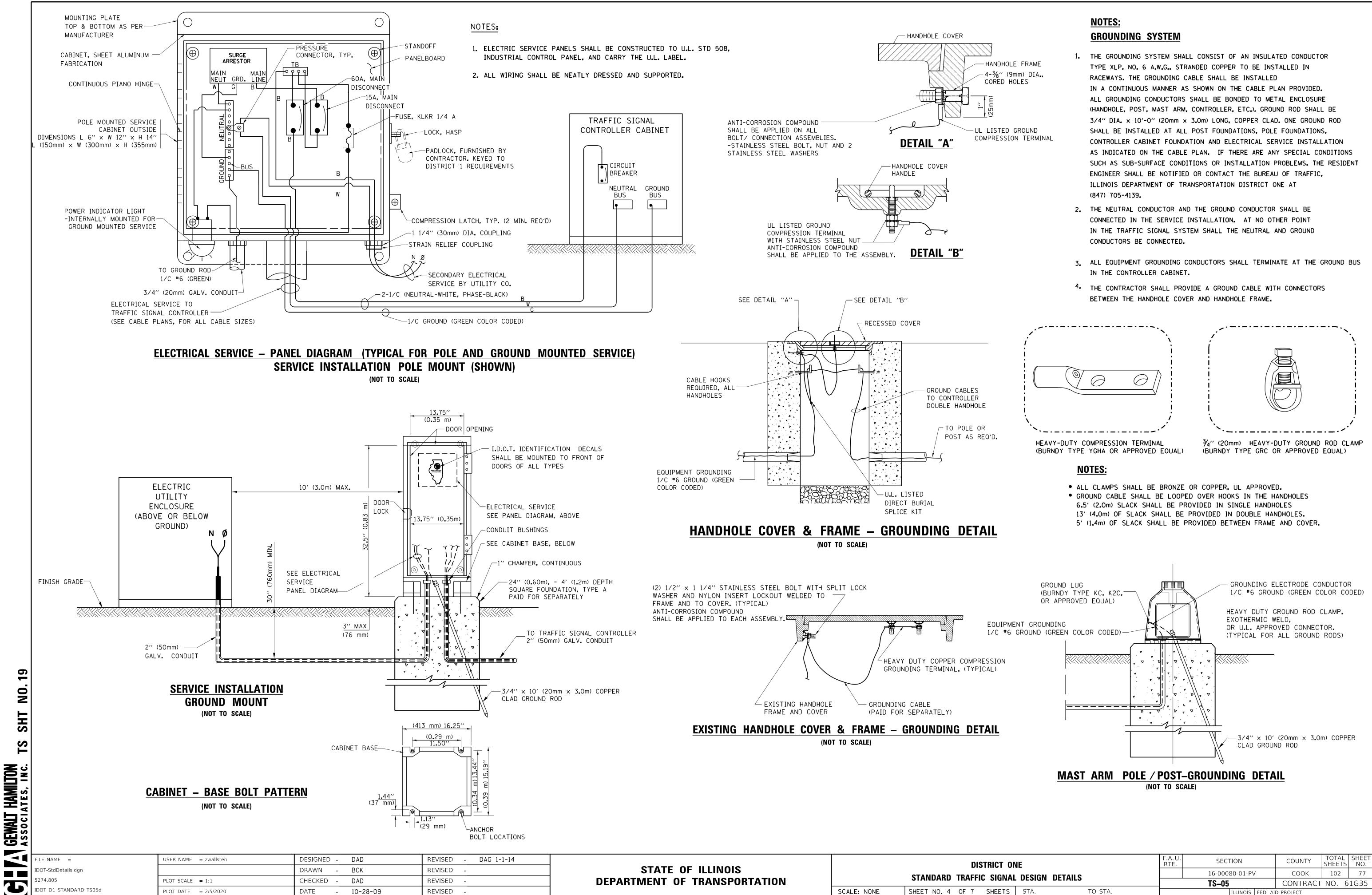


GEWALT

HAMILTON ATES, INC.

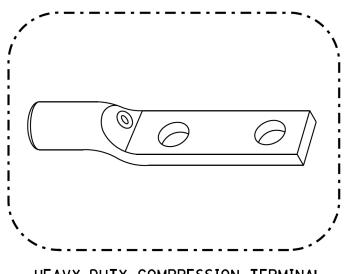
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL

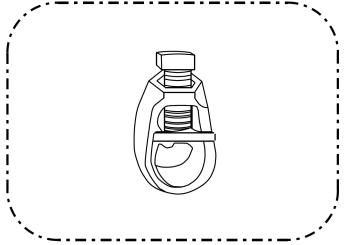
AG 1-1-14				פוח	TRICT OI
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STANDARD		C SIGNAI
		SCALE: NONE	SHEET NO. 3	0F 7	SHEETS
			SHEET NO. 5	01 1	SHEETS



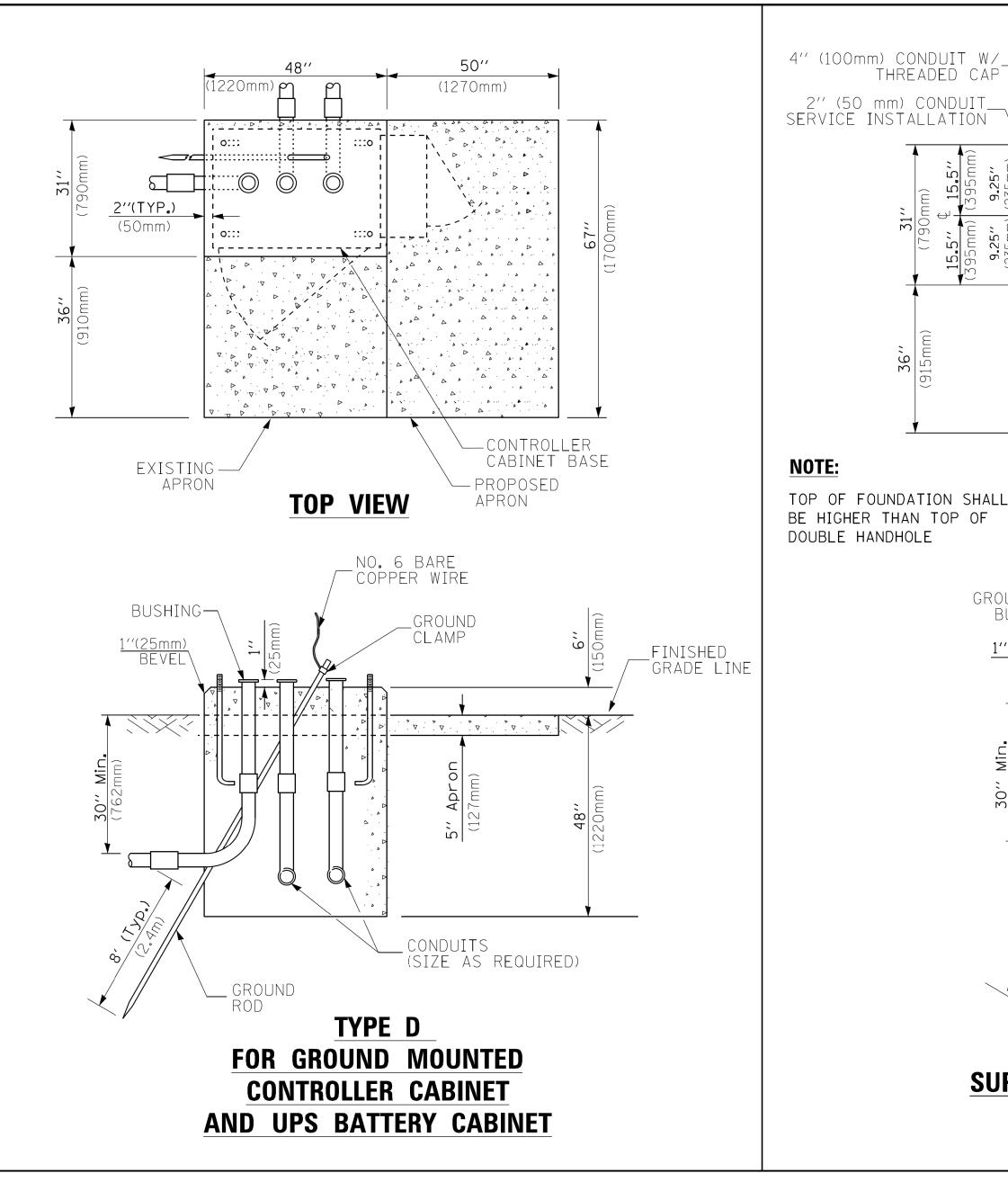
DEPARTMENT OF TRANSPORTATION		21A
	SCALE: NONE	SHEE

LE FRAME 9mm) DIA., HOLES	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. × 10'-0" (20mm × 3.0m) LONG, COPPER CLAD. ONE GROUND ROD
GROUND ION TERMINAL		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 CONDITION SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESID 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 IN THE CONTROLLER CABINET.
	4.	





ONE AL DESIGN DETAILS		F.A.U. RTE	SECTION COUL		COUNTY	COUNTY TOTAL SHEET SHEETS NO.			
			16-000	80-01-P∖	/	СООК	102	77	
AL DESIGN DETAILS			TS–05			CONTRACT	NO. 6	1G35	
S	STA.	TO STA.			ILLINOIS	FED. AI	d project		



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

VERTICAL CABLE LENGTH
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD I
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)
PEDESTRIAN PUSH BUTTON
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP
SERVICE INSTALLATION POLE MOUNT TO GROUND
SERVICE INSTALLATION GROUND MOUNT
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLL

VERTICAL CA

CABLE SLACK

_
- D.
_
-
_

	DEPARTMENT OF		SCALE: NONE	STANDARD TRAFFIC SIGNAL
ROM END OF ARM ER CABINET, SERV BLE LENGTH	I3.0 4.0 6.0 2.0 13.5 4.1 13.5 4.1 6.0 2.0 VICE-GROUND MOUNT) 3.0	FOUNDATION TYPE A - Signal Post TYPE C - CONTROLLER W/ U TYPE D - CONTROLLER SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SOUARE DEPTH OF FOU	4'-0'' (1.2m) 4'-0'' (1.2m)	Greater than or e 56' (16.8 m) and les 65' (19.8 m)
BUSH: <u>1" (25</u> BEV (um292) (mu292)	ING	GRADE NONATE NONATE NONATE STORE NONATE STORE ST		2" <u>× 6" (51mm × 152</u> TREATED WOOD <u>NOTES:</u> 1. BASED ON CONTROLLER CABINET ADJUST PLATFORM SIZE TO FIT 2. BASED ON UNINTERRUPTIBLE POW ADJUST PLATFORM SIZE TO FIT 3. PLATFORM SIZE FOR CONTROLLEF 4. PLATFORM SIZE FOR CONTROLLEF 5. DRILLED HOLES THROUGH THE PL THE CONTROLLER CABINET TO TH 6. FASTEN ALL SUPPORT WOOD FRA
ATION SHALL IN TOP OF DLE GROUND	ING NO	CONTROLLER CABINET BASE . 6 BARE PPER WIRE		<u>³/₄'' (19mm) TREATE</u> PHYWOOD DECK 2'' x 6'' (51mm x 152)
(915mm)	APRON	UPS BATTERY COMPARTMENT		TR/ CONTROL

66′′

(1675mm)

40.75'' (1035mm)

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5.375''

(136mm)

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19.875″

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(504mm)

36′′

(915mm)

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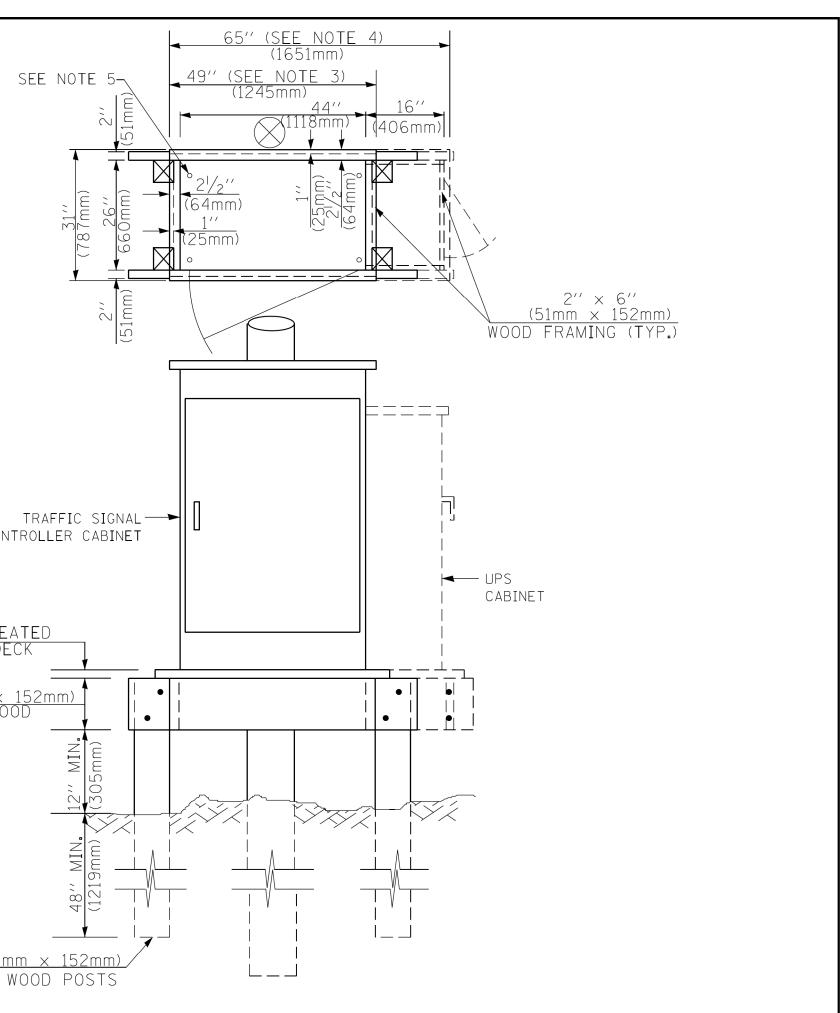
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D. A .

. 45.

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SINET TYPE IV WITH BASE DIMENSIONS OF 26" × 44" (660mm × 1118mm). FIT CABINET BASE DIMENSIONS BEING SUPPLIED E POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" × 25" (406mm × 635mm).) FIT CABINET BASE DIMENSIONS BEING SUPPLIED. COLLER CABINET TYPE IV.

ROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.

HE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.

FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION ..

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

.ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9 . 1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6'' (4 _∎ 1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3 . 4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up to m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

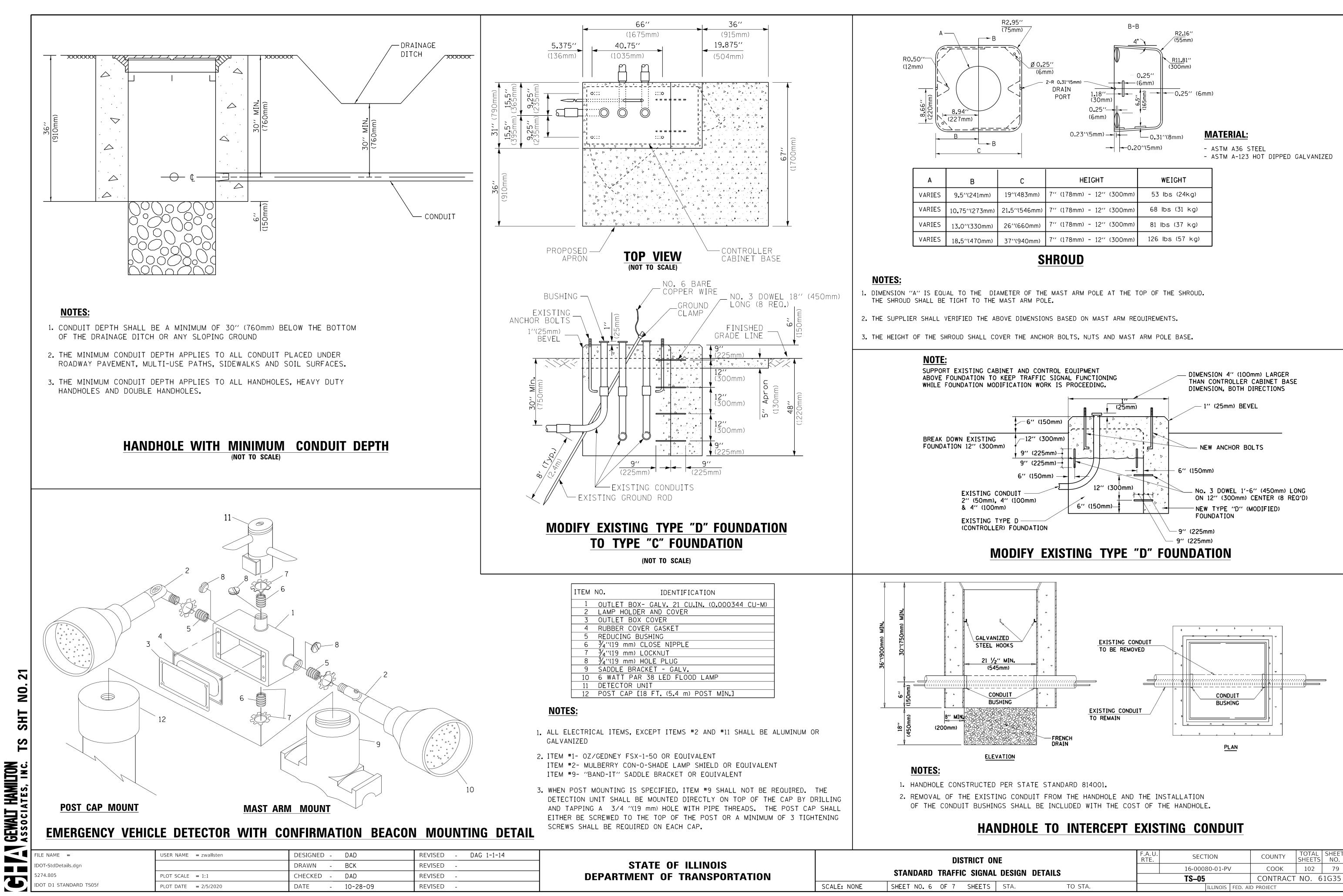
n depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along ne shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). nall be verified by boring data prior to construction or with testing by the Engineer n drilling. The Bureau of Bridges & structures should be contacted for a revised conditions are encountered.

arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations. arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm)

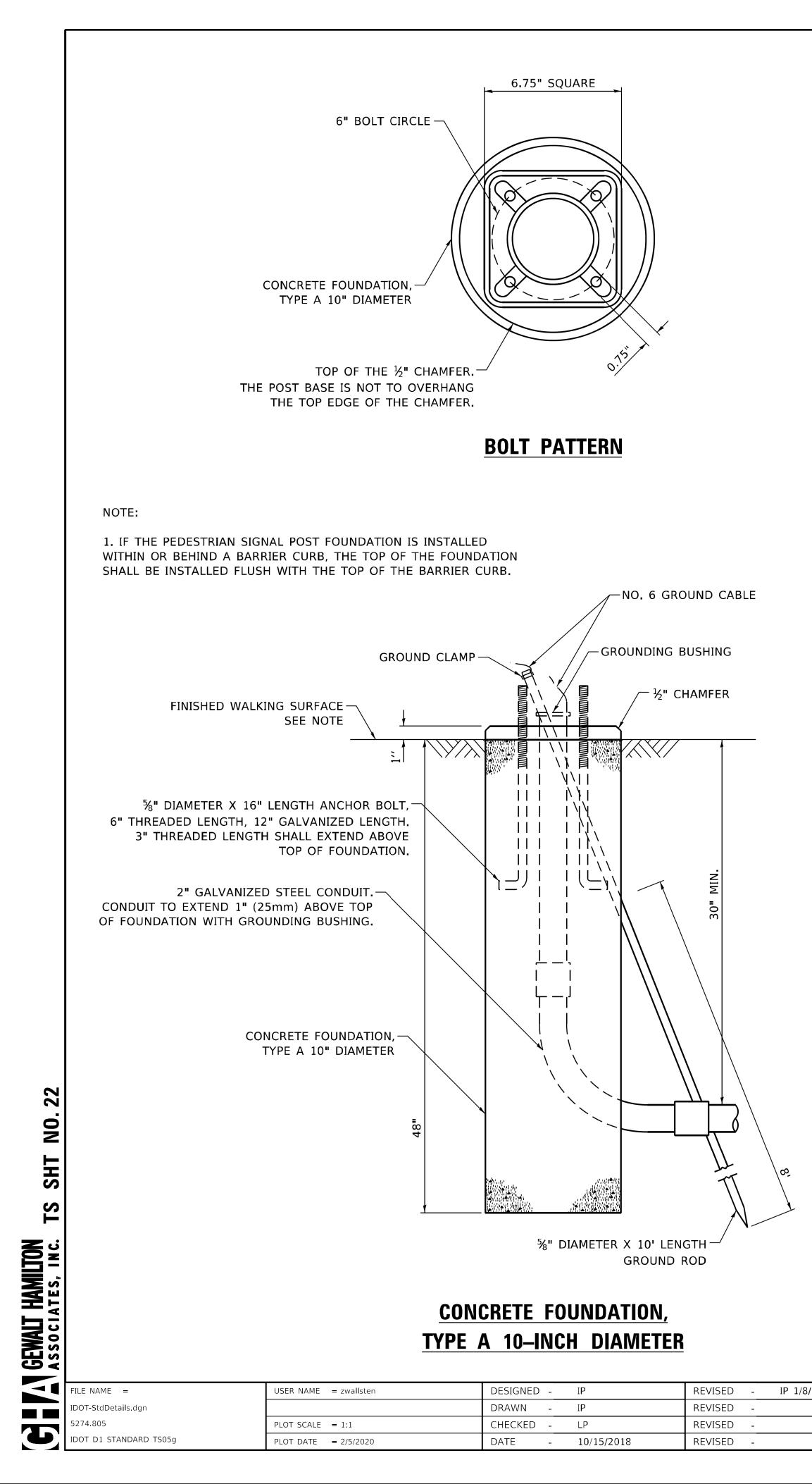
semblies with dual arms refer to state standard 878001...

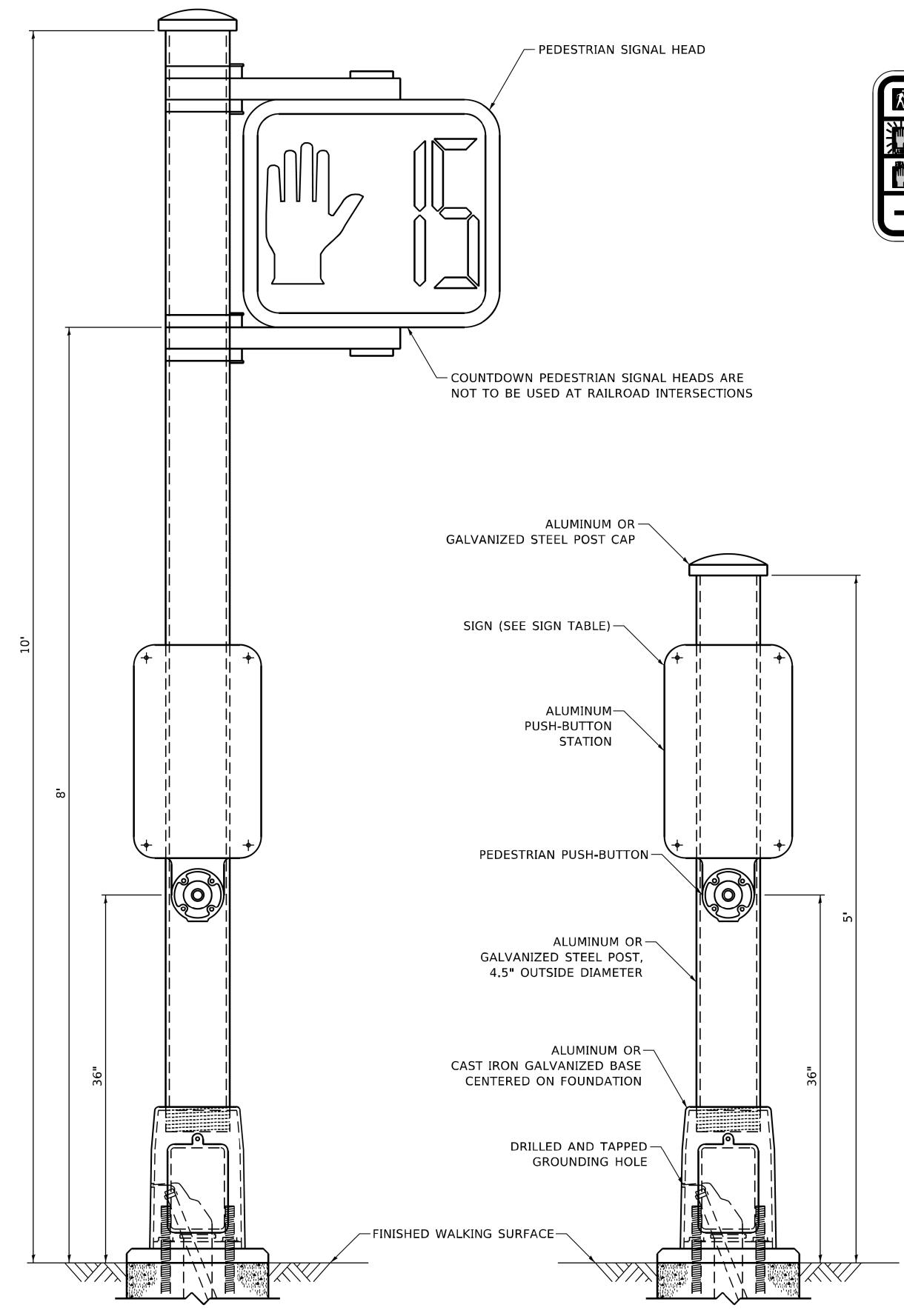
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

ONE NAL DESIGN DETAILS		F.A.U. RTE.			COUNTY	TOTAL SHEETS	SHEET NO.	
			16-00080-01	-PV	СООК	102	78	
		•	TS05		CONTRACT	NO. 6	1G35	
S	STA.	TO STA.		ILLINC	IS FED. AI	d project		



ONE AL DESIGN DETAILS		F.A.U. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
			16-00080-01-P\	/	СООК	102	79
			TS-05		CONTRACT	NO. 6	1G35
S STA.	TO STA.		ILLINOIS	FED. AI	d project		





PEDESTRIAN SIGNAL POST, 10 FT.

PEDESTRIAN SIGNAL POST, 5 FT.

/2020				DIST	RICT (
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STANDARD		
		SCALE: NONE	SHEET 7	OF 7	SHEETS



R10-3b

R10-3d

R10-3e

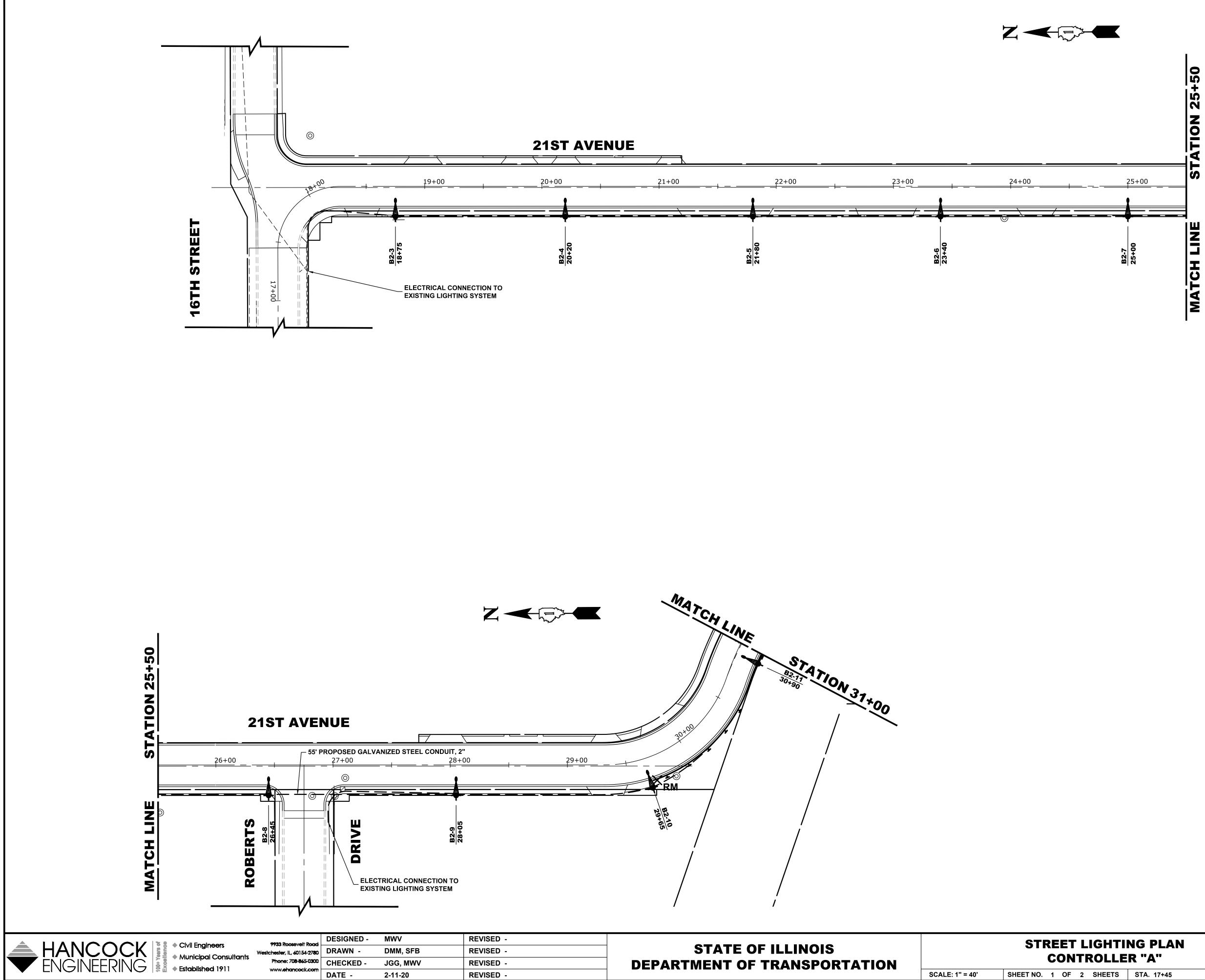
SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

- 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
- 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
- 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

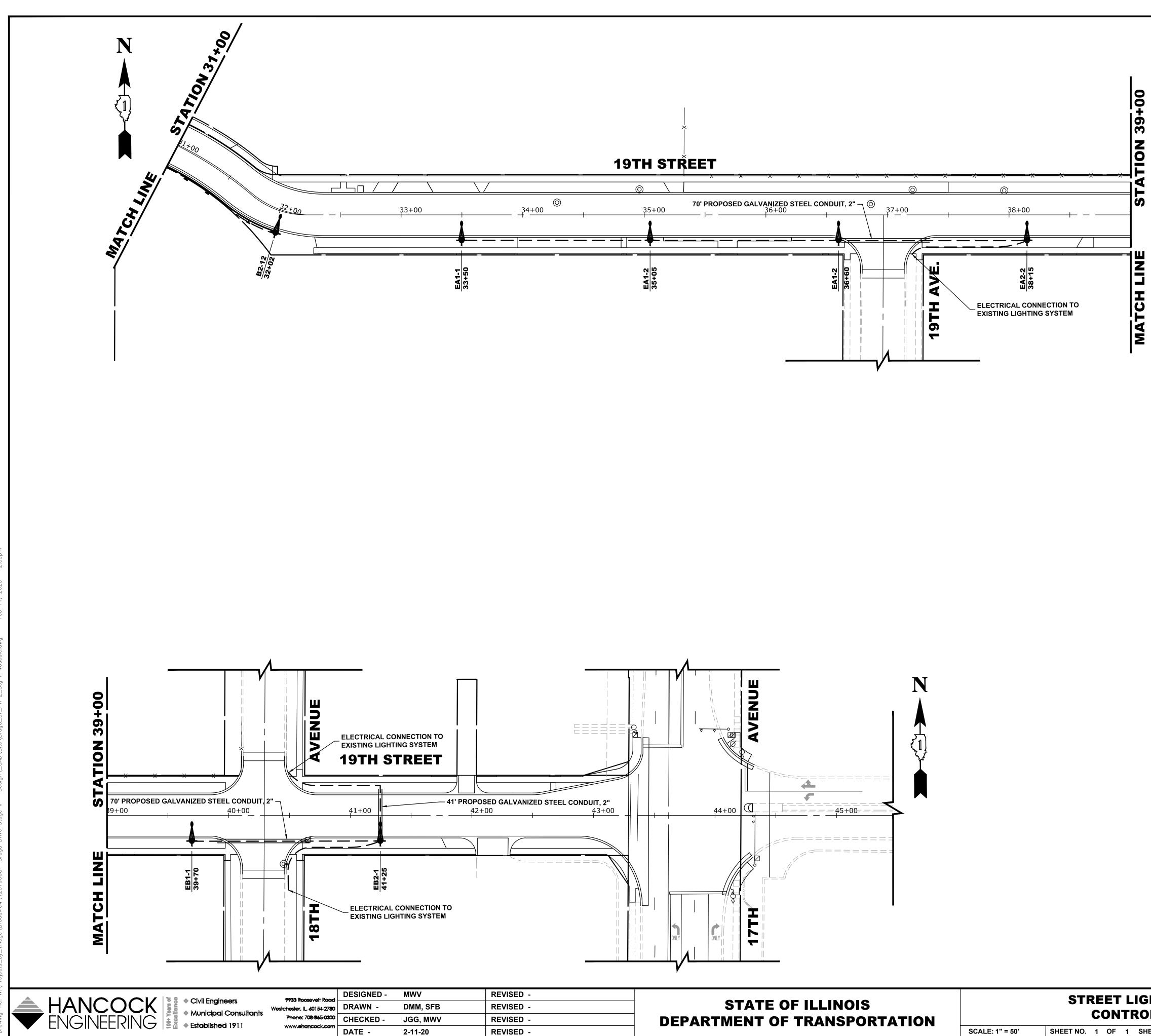
ONE IAL DESIGN DETAILS		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			16-00080-01-PV	СООК	102	80
			TS-05	CONTRACT	NO. 6	1G35
ΓS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			





LI	EGEND OF SYMBOLS
-\$	EXISTING LIGHT POLE AND FIXTURE
RM	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED
	PROPOSED 30' MOUNTING HEIGHT POLE WITH 12' MAST ARM AND LED LUMINAIRE
	PROPOSED HANDHOLE
	PROPOSED CONTROL CENTER
	PROPOSED UNIT DUCT WITH 2-1/C No. 6 & 1-1/C No. 8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED OR AS NOTED
	EXISTING UNIT DUCT
	PROPOSED RIGID GALVANIZED STEEL CONDUIT
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
A1-1-	POLE NUMBER (TYP.)
20+80	STATION NUMBER (TYP.)

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G PLAN		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	JEC
. "А"		3015	16-00080-01-PV	СООК	102	81	PRO N
A		FIELD B	OOK NO. : -	CONTRACT NO. 61G35			щ
STA. 17+45	TO STA. 31+00	FED. RO	DAD DIST. NO. 1 ILLINOIS FED	AID PROJECT			Т

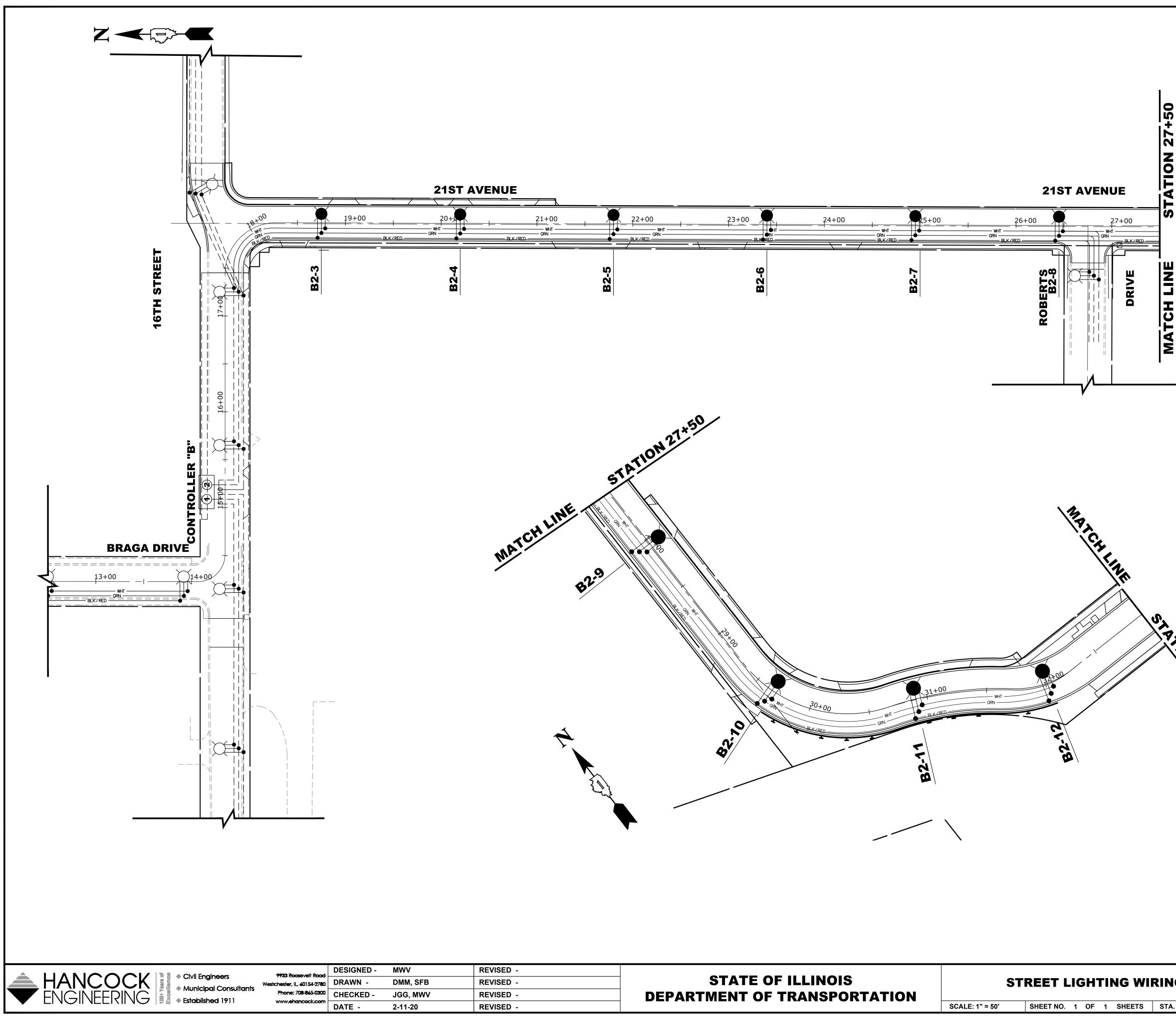


STREET LIGHTING CONTROLLER

SHEET NO. 1 OF 1 SHEETS ST

L	EGEN	D OF SYN	IBO	LS			
\rightarrow	EXISTING	LIGHT POLE AND FI	KTURE				
RM	EXISTING	LIGHT POLE AND FI	KTURE	TO BE REMOVED			
		ED 30' MOUNTING HE ARM AND LED LUMIN	-	OLE WITH			
	PROPOSI	ED HANDHOLE					
	PROPOSE	ED CONTROL CENTE	र				
	GROUND	PROPOSED UNIT DUCT WITH 2-1/C No. 6 & 1-1/C No. 8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED OR AS NOTED					
	EXISTING	UNIT DUCT					
	PROPOSI	ED RIGID GALVANIZE	D STEE				
		ROLLER IDENTIFICA	TION (T	YP.)			
		UIT NUMBER (TYP.)					
A1-1-	POLE	NUMBER (TYP.)					
20+80		ION NUMBER (TYP.)					
	MUN	SECTION		COUNTY			

	Ŀ							L NO
G PLAN		MUN RTE	SEC.	CTION	COUNTY	TOTAL SHEETS	NO.	JEC.
"B"		3015	3015 16-00080-01-PV		СООК	102	82	R N
		FIELD	BOOK NO. : -		CONTRACT N	O. 61G35		щ
STA. 31+00	TO STA. 43+	+46 FED.	ROAD DIST. NO.	1 ILLINOIS FE	D. AID PROJECT			Ш
								,



LIGHTING CONTROLLER "B" CIRCUIT LOADS					
CIRCUIT	AMPS	WATTS			
1	1.20	300			

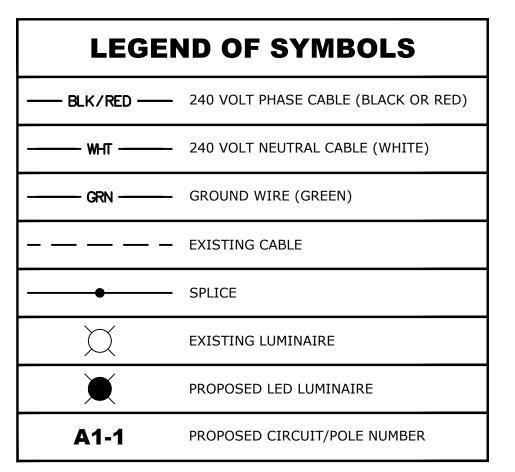
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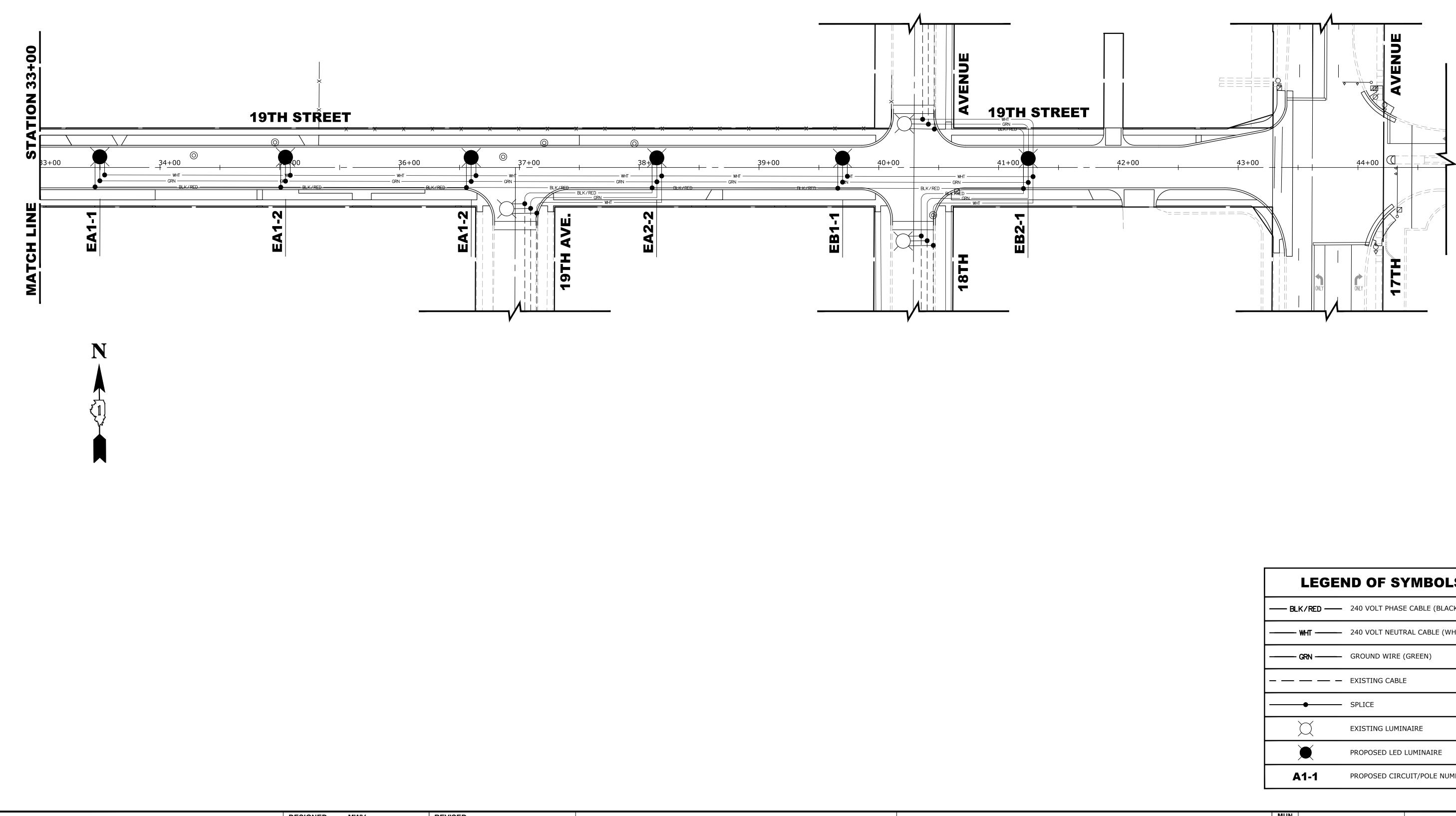
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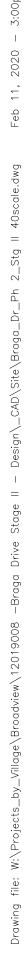
TOTAL

1500



RTE. SECTION COUNTY SHEETS NO	
NG DIAGRAM 3015 16-00080-01-PV COOK 102 83	
FIELD BOOK NO. : - CONTRACT NO. 61G35	ſ
TA. 17+45 TO STA. 33+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	





HANCOCK ENGINEERING	ears of lience	•
ENGINEERING	100+ Y Excel	•

 Civil Engineers 	•
 Municipal Consultants 	Westc
Established 1911	١

9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
ichester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DRAWN -	DMM, SFB	REVISED -
	CHECKED -	JGG, MWV	REVISED -
	DATE -	2-11-20	REVISED -

STREET LIGHTING WIRI

SHEET NO. 1 OF 1 SHEETS ST SCALE: 1" = 50'

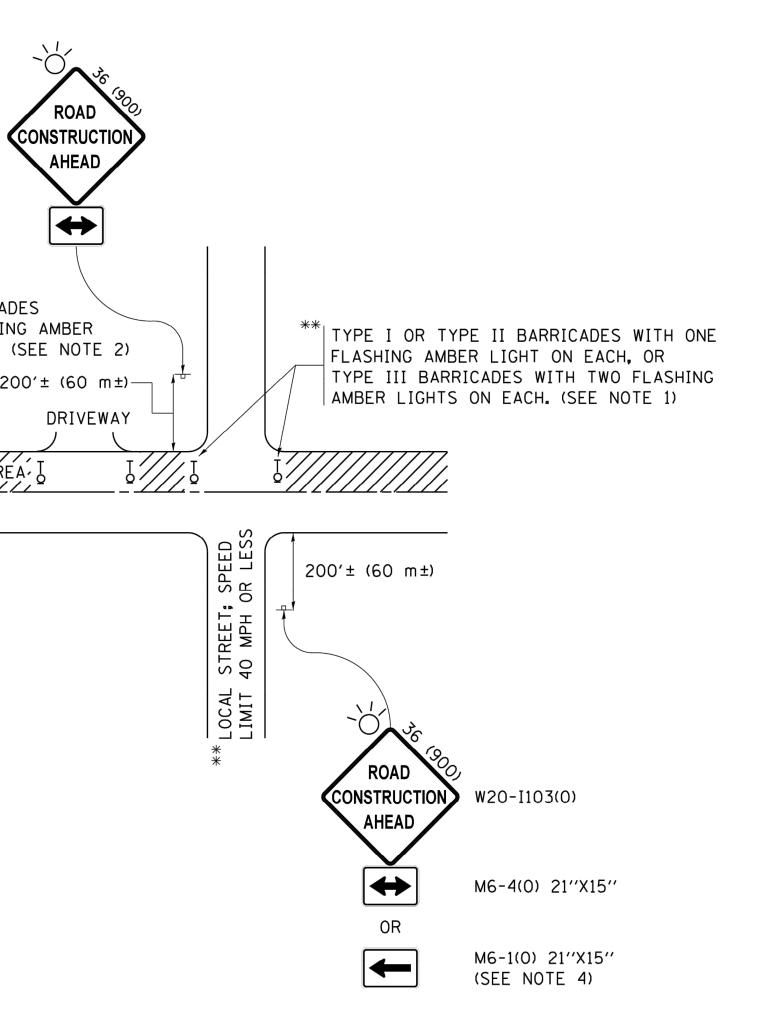
LEGE	LEGEND OF SYMBOLS					
BLK/RED	240 VOLT PHASE CABLE (BLACK OR RED)					
w-it	240 VOLT NEUTRAL CABLE (WHITE)					
GRN	GROUND WIRE (GREEN)					
	EXISTING CABLE					
•	SPLICE					
X	EXISTING LUMINAIRE					
\mathbf{X}	PROPOSED LED LUMINAIRE					
A1-1	PROPOSED CIRCUIT/POLE NUMBER					

ING DIAGRAM		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	JEC
		3015	3015 16-00080-01-PV		102	84	PRC
		FIELD BO	FIELD BOOK NO. : -		CONTRACT NO. 61G35		
STA. 33+00	TO STA. 43+46	FED. RO	AD DIST. NO. 1 ILLINOIS FED	. AID PROJECT			Ш
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Default	PLOT DATE = 9/15/2016	DATE	_	06-89	REVISED	– A.SC	HUE

CONSTRUCTION	CONSTRUCTION
15 (380) (380) 21 (530)	
777	(E 05 * TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 2) 200'± (60 m±) DRIVEWAY DRIVEWAY J
	* COLLECTOR * COLLECTOR SPEED LIMIT> 40 MPH (60 km/h)
	ROAD CONSTRUCTION AHEAD
<u>NOTES:</u>	
	A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS DRAWING AND AS DIRECTED BY THE ENGINEER:
) CONSTRUCTION AHEAD'' SIGN 36 × 36 (900×900) WITH A FLASHER ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
BLOCKING	D PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF S SECTION OF THE CLOSED PORTION.
	A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) He DRAWING AND AS DIRECTED BY THE ENGINEER:
) CONSTRUCTION AHEAD'' SIGN 48 x 48 (1.2 m x 1.2 m) WITH A MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE
Ы) THE CLOSE BLOCKING	D PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OSED PORTION.
	SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
SIGNING AND TH	ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE E WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL J OF THE DOUBLE HEADED ARROW (M6-4).
DUSEH 10-15-96 ACHER 01-06-00 UETZE 07-01-13 UETZE 09-15-16 DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION F SIDE ROADS, INTERSECTIONS, AND DRIVE
01121 03-13-10	SCALE: NONE SHEET 1 OF 1 SHEETS STA.

ROAD



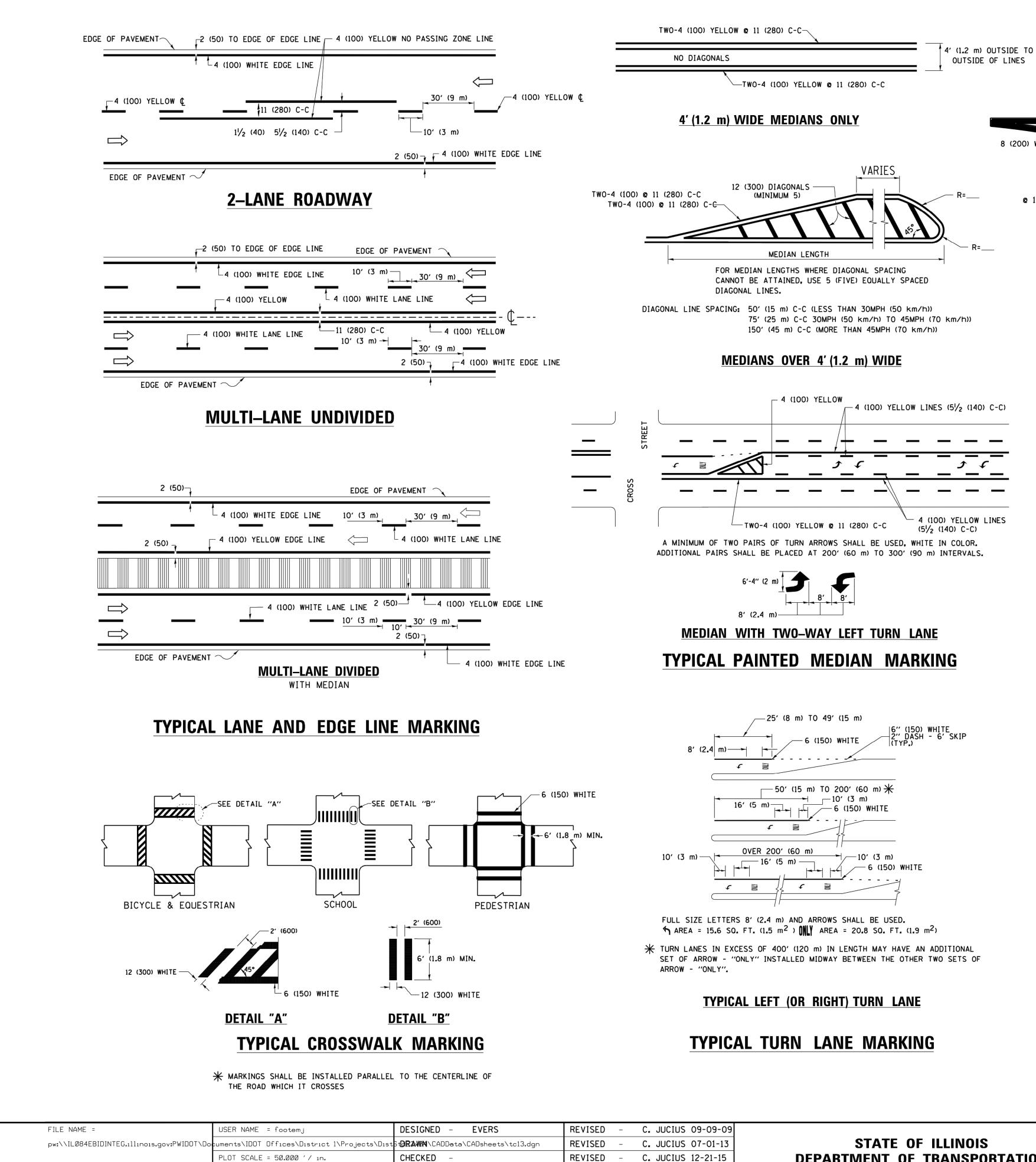
5.	WHEN WORK IS BEING PERFORM	MED ON A SIDE ROAD OR DRIVEWAY,
	FOLLOW THE APPLICABLE STAN	NDARD(S). THE DIRECTIONAL
	ARROW (M6-1 OR M6-4) SHALL	BE COVERED OR REMOVED WHEN
	NO LONGER CONSISTENT WITH	THE TRAFFIC CONTROL SET-UP.

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.

PROTECTION FOR IS, AND DRIVEWAYS		ION FOR	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	ROJE
			3015	16-00080-01-PV	СООК	102	85	٩.
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S	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT			ш



Default

PLOT DATE = 4/13/2016

DATE

03-19-90

С.	JUCIUS	09-09-09	
С.	JUCIUS	07-01-13	
2.	JUCIUS	12-21-15	
С.	JUCIUS	04-12-16	

REVISED –

DEPARTMENT OF TRANSPORTATION SCALE: NONE

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

ISLAND OFFSET FROM PAVEMENT EDGE

8 (200) WHITE -

ISLAND AT PAVEMENT EDGE

PAVEMENT

LANE LINES

EDGE LINES

STOP LINES

PAINTED MEDIANS

GORE MARKING AND CHANNELIZING LINES

RAILROAD CROSSING

SHOULDERS > 8')

2 ARROW COMBINATION

LEFT AND U TURN

U TURN ARROW

SHOULDER DIAGONALS (REQUIRED FOR

TYPICAL ISLAND MARKING

TYPE OF MARKING

CENTERLINE ON MULTI-LANE UNDIVIDED

CENTERLINE ON 2 LANE PAVEMENT

DOTTED LINES (EXTENSIONS OF CENTER, LANE OR

NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS

TURN LANE MARKINGS)

TURN LANE MARKINGS

TWO WAY LEFT TURN MARKING

CROSSWALK LINES (PEDESTRIAN)

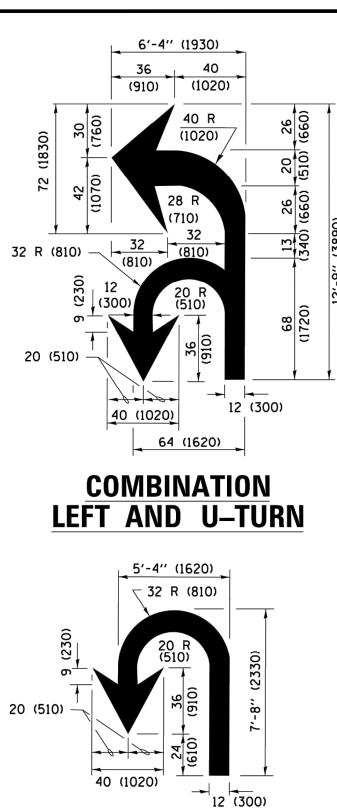
A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)

8 (200) WHITE —

12 (300) WHITE DIAGONALS

8 (200) WHITE-

@ 10' (3 m) OR LESS SPACING



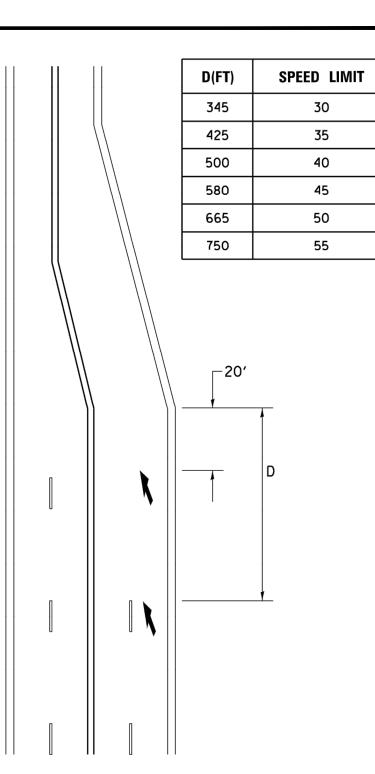
U-TURN

____ 2 (50)

2 (50)

RAISED

ISLAND



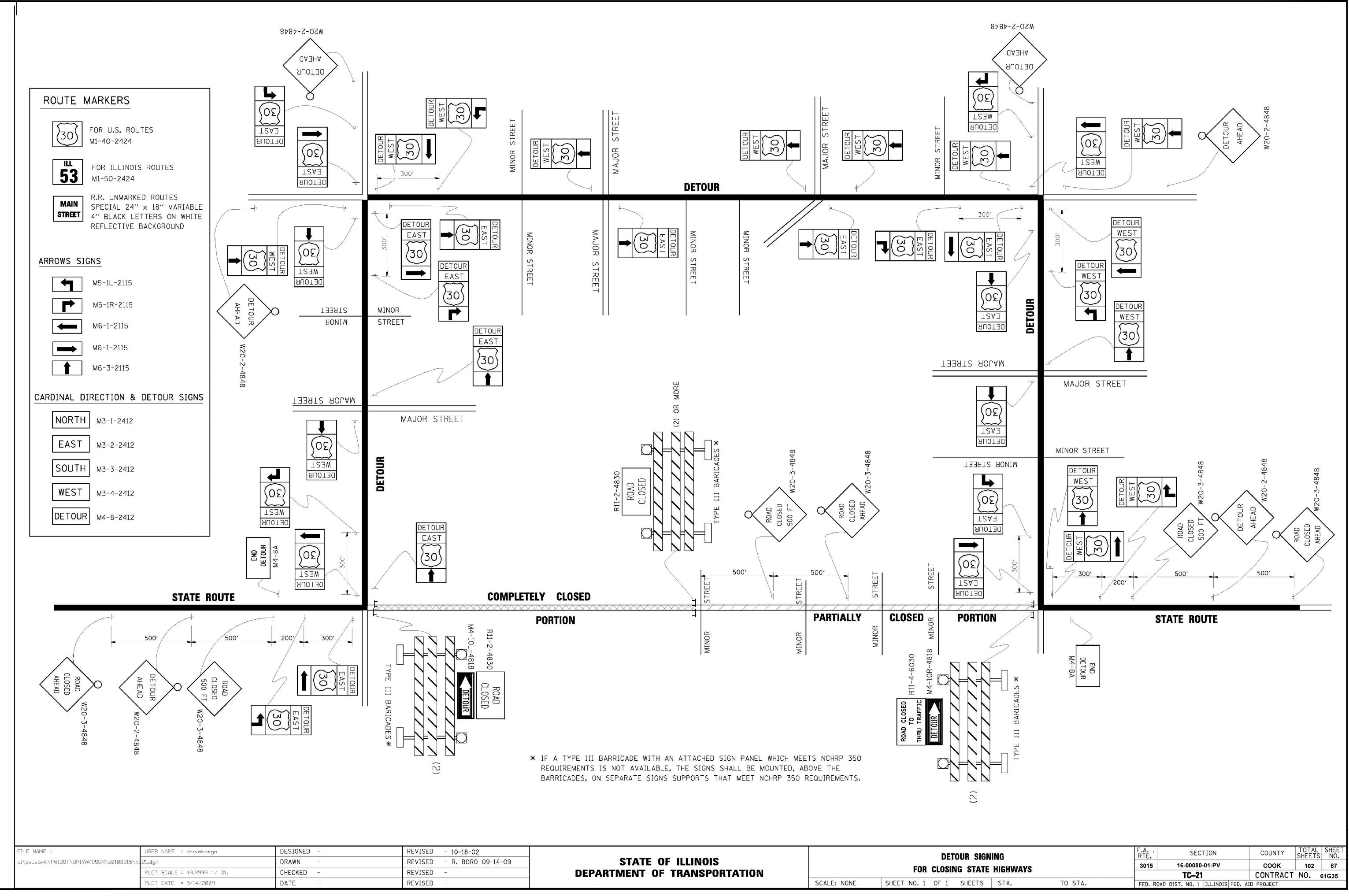
LANE REDUCTION TRANSITION

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

	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
╡	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
	4 (100) 2 @ 4 (100)	SOL ID SOL ID	YELLOW YELLOW	51/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID IN PAIRS	YELLOW	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
	8' (2.4m) LEFT ARROW		WHITE	MARKING DETAIL
	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.
	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
	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.
	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))
	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 m ²)
	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))
	SEE DETAIL	SOLID	WHITE	16.3 SF
	SEE DETAIL	SOLID	WHITE	30.4 SF

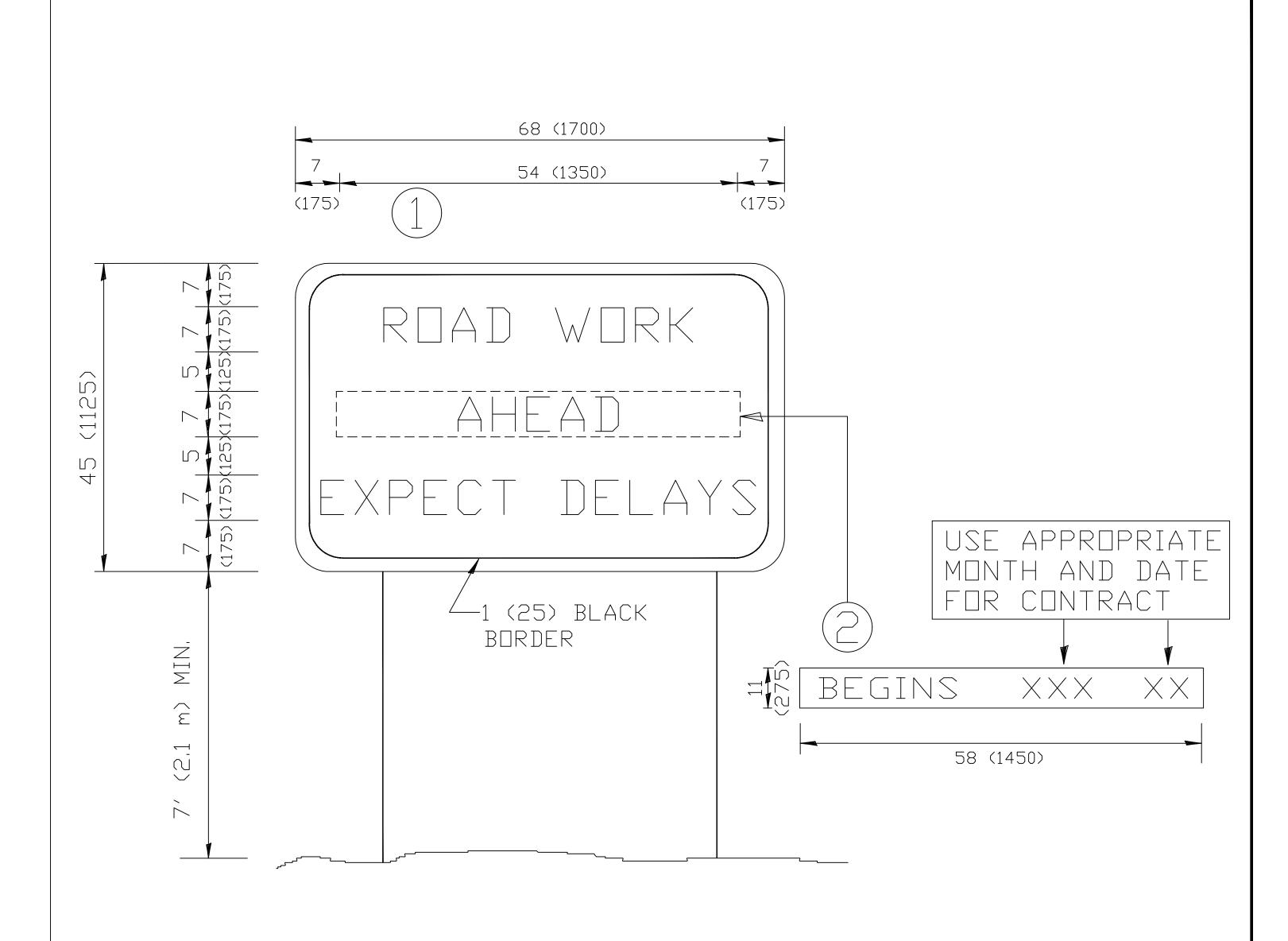
All dimensions are in inches (millimeters) unless otherwise shown.

DISTRICT ONE TYPICAL PAVEMENT MARKINGS							MUN RTE. SECTION				SHEET NO.
						22	3015	16-00080-01-PV	COOK	102	00
								TC–13	CONTRACT	NO.	61G35
	SHEET 1	OF	1	SHEETS	STA.	TO STA.	TC-13 CONTRACT NO. 61G35				



-02 R0 09-14-09	STATE OF ILLINOIS		DETOUR SIGNIN
	DEPARTMENT OF TRANSPORTATION		FOR CLOSING STATE H
		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

	USER NAME =	DESIGNED -	REVISED - R. MIRS
		DRAWN –	REVISED - R. MIRS
	PLOT SCALE =	CHECKED -	REVISED -T. RAMMA
	PLOT DATE =	DATE –	REVISED - C. JUCIUS



NDTES

- 1, USE BLACK LETTERING ON ORANGE BACKGROUND,
- AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- CONSTRUCTION,
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 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.

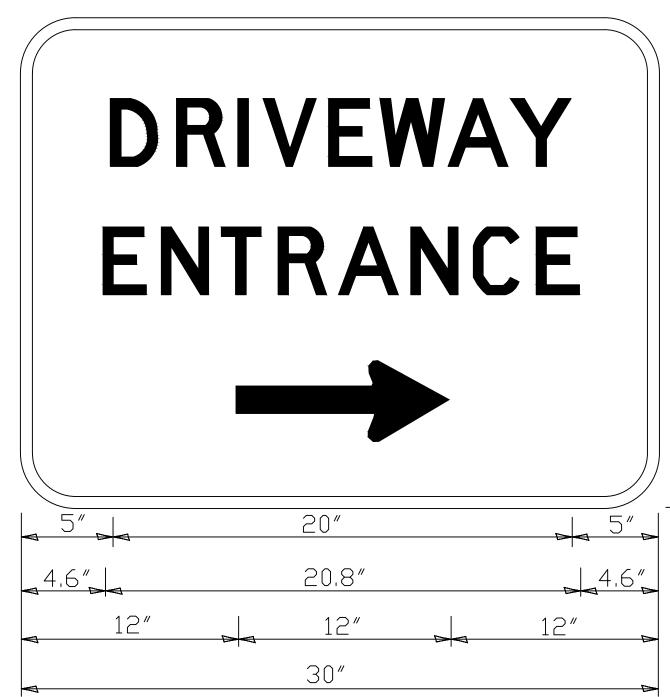
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION" 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF

5, SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING"

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

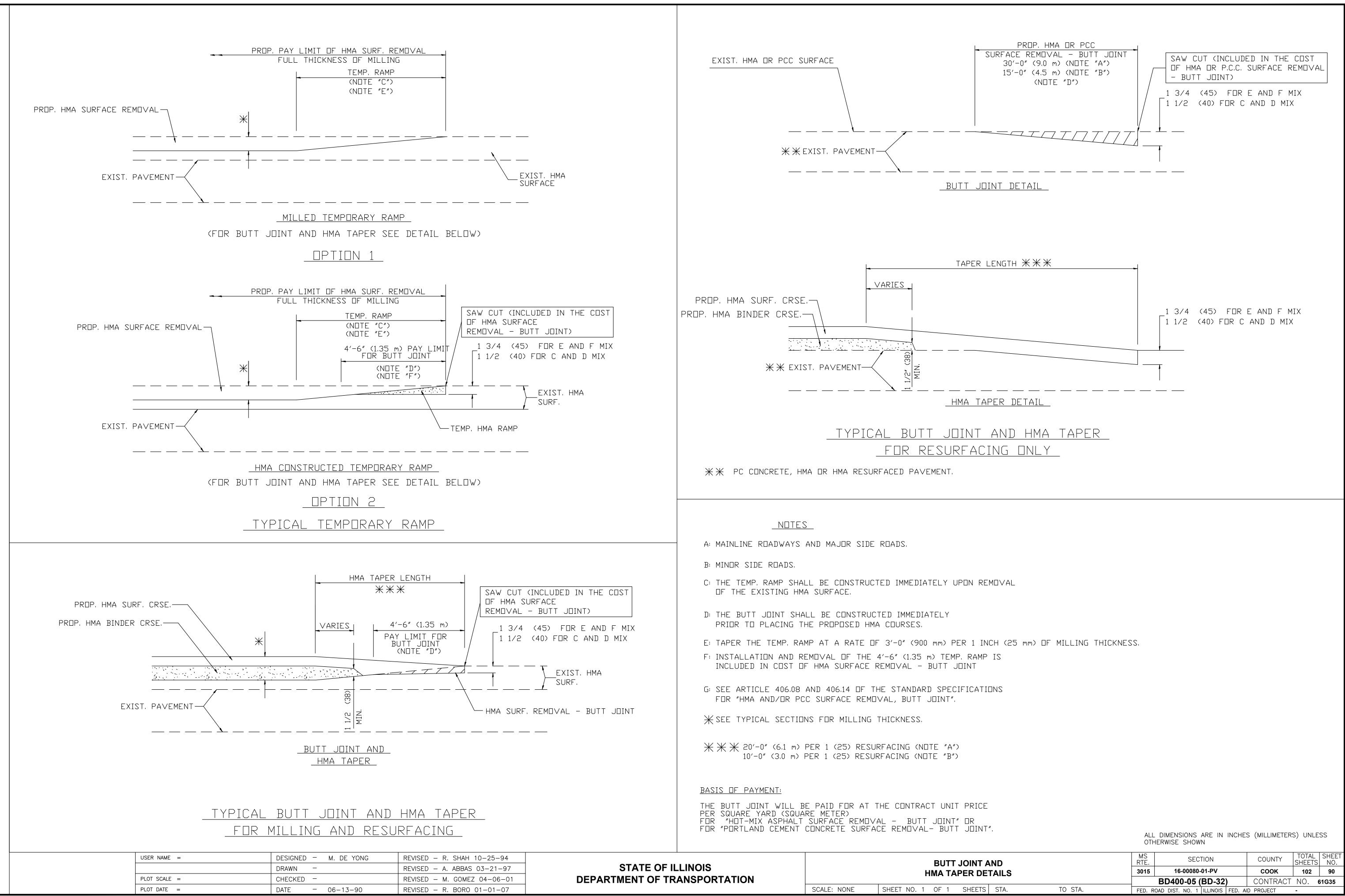
AD	F.A.U. SECTION		COUNTY	TOTAL SHEETS	SHEET	ROJEC
IGN	3015	16-00080-01-PV	СООК	102	88	Δ.
	-	TC-22	CONTRACT	NO.	61G35	H.E
STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT			ш



	DRIVE				
	ENTRA				
	20″				
4.6″	20,8″ 2″ <u>1</u> 2″	4.6"			
	30″				
		ON GREEN; REFLECTOR Tandard Arrow Custon			
<u>Notes:</u> 1. half of th	E SIGNS WILL REG	QUIRE A LEFT HAND FAG	CING ARROW,		
1, HALF OF TH 2, TWO SIGNS Placed bac	SHALL BE USED A ⁻ K-to-back: one w	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR	FRANCE DV (SHDWN)		
1. HALF OF TH 2. TWO SIGNS PLACED BAC SHALL BE PI AND ONE WI	SHALL BE USED A ⁻ K-TO-BACK: ONE W LACED ON THE NEA	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR AR RIGHT SIDE THE DRI ARROW SHALL BE PLACE	FRANCE DV (SHDWN) VEWAY		
1. HALF OF TH 2. TWO SIGNS PLACED BAC SHALL BE PI AND ONE WI FAR LEFT S	SHALL BE USED A K-TO-BACK: ONE W LACED ON THE NEA TH A LEFT HAND A IDE OF THE DRIVE	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR AR RIGHT SIDE THE DRI ARROW SHALL BE PLACE	FRANCE DV (SHDWN) VEWAY ID DN THE		
1. HALF OF TH 2. TWO SIGNS PLACED BAC SHALL BE PI AND ONE WI FAR LEFT S	SHALL BE USED A K-TO-BACK: ONE W LACED ON THE NEA TH A LEFT HAND A IDE OF THE DRIVE	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR AR RIGHT SIDE THE DRI ARROW SHALL BE PLACE EWAY,	FRANCE DV (SHDWN) VEWAY ID DN THE		
1. HALF OF TH 2. TWO SIGNS PLACED BAC SHALL BE PI AND ONE WI FAR LEFT S	SHALL BE USED A K-TO-BACK: ONE W LACED ON THE NEA TH A LEFT HAND A IDE OF THE DRIVE	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR AR RIGHT SIDE THE DRI ARROW SHALL BE PLACE EWAY,	FRANCE DV (SHDWN) VEWAY ID DN THE		
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1. HALF OF TH 2. TWO SIGNS PLACED BAC SHALL BE PI AND ONE WI FAR LEFT S	SHALL BE USED A K-TO-BACK: ONE W LACED ON THE NEA TH A LEFT HAND A IDE OF THE DRIVE	T EACH COMMERCIAL EN /ITH A RIGHT HAND ARR AR RIGHT SIDE THE DRI ARROW SHALL BE PLACE EWAY,	FRANCE DV (SHDWN) VEWAY ID DN THE	DRIVEWA	YENTRANCE

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		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	ROJECT
E SIGNING		3015	16-00080-01-PV	СООК	102	89	ā
			TC-26	CONTRACT	NO.	61G35	Ξ
STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



E. PROJECT NO. 120-19-008

4-1" (25.4) DIA. X 7" (177.8) L.-STUD WITH JAM NUT

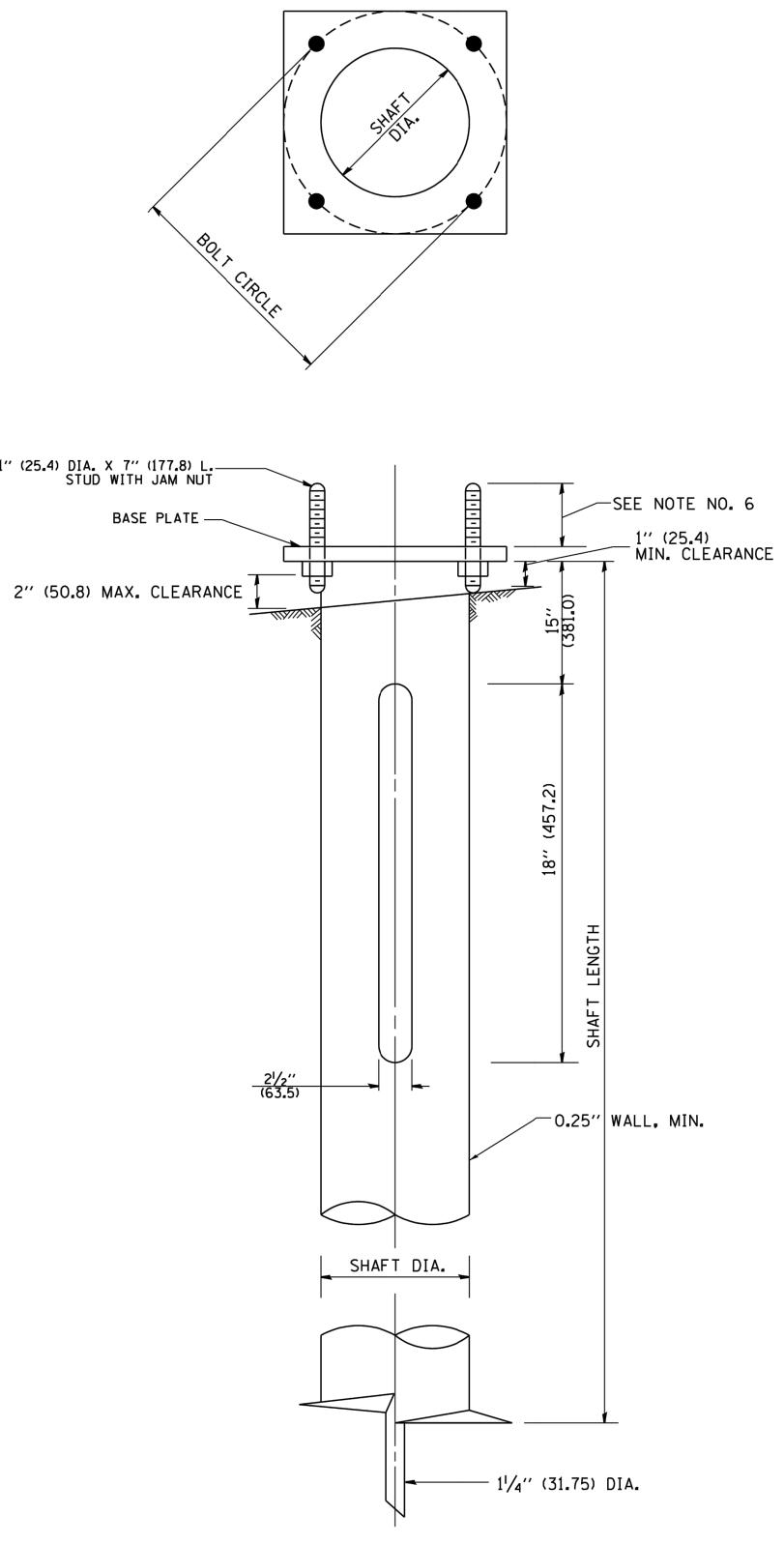
HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT			SHAFT LENGTH	BASEPLATE
30 FT.	111/2"	8 ⁵ ⁄8″	6 FT.	12''×12''×1''
31 FT35 FT.	111/2''	85⁄8'′	6 FT.	12''×12''×1''
36 FT40FT.	15''	85⁄8'′	6 FT.	15''×15''×1 ¹ /4''
41 FT45 FT.	15''	85⁄8'′	6 FT.	15′′×15′′×1 /₄′′
46 FT50 FT.	15''	10"	8 FT.	15''×15''×1 ¹ /₄''

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

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	- REVISED -	CHECKED -	PLOT SCALE = 50.000 '/ IN.	
PLOT DATE = 1/4/2008 DATE - 02-27-07 REVISED -	- 02-27-07 REVISED -	DATE - 02-2	PLOT DATE = 1/4/2008	



NOTES:

- TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- POLE INSTALLATION.
- OF THE LIGHT POLE.

- 9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND
- AND IN LINE (± 2°).
- AND DATE OF MANUFACTURE.

			LIGH	F POLE	FOUNDAT	ION, METAL		I MUN RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET	SOLE
-	STATE OF ILLINOIS					3015	16-00080-01-PV	COOK	102	91	Ā		
	DEPARTMENT OF TRANSPORTATION							_	BE-305	CONTRACT	NO.	61G35	Ξ
		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT			ш

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.

3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN $\frac{1}{4}$ " (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION

4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE

5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION

6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.

7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.

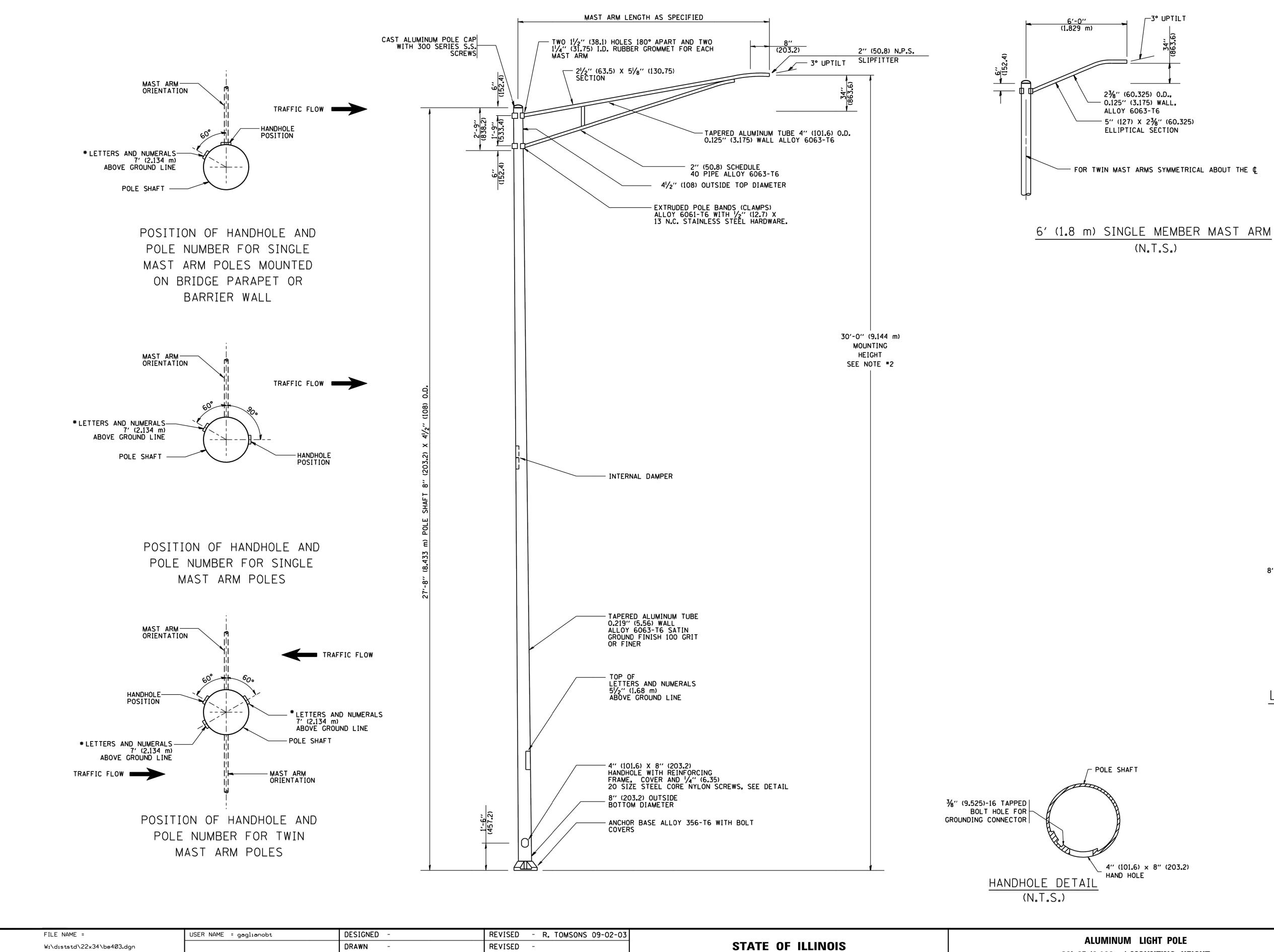
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.

WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.

10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.

11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125)

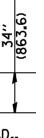
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME



DEPARTMENT OF TRANSPORTATION

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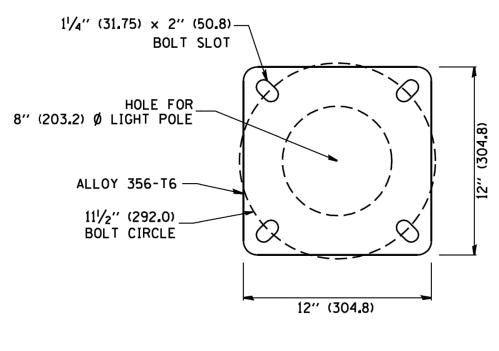
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- FOR TWIN MAST ARMS SYMMETRICAL ABOUT THE C

NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

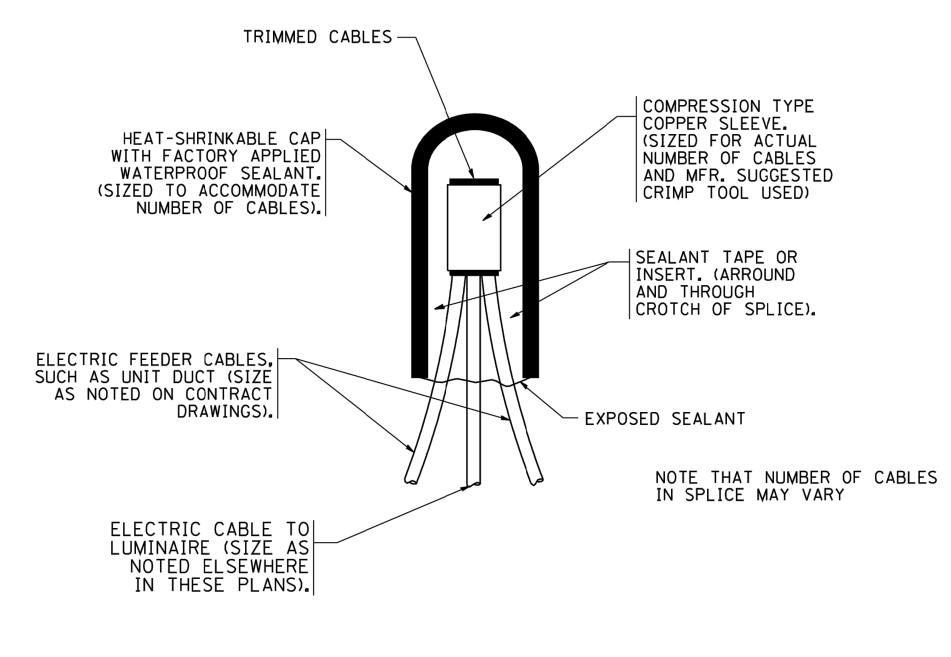


LIGHT POLE BASE PLATE DETAIL 11¹/₂" (292.0) BOLT CIRCLE

SHEET NO. 1 OF 1 SHEETS

SCALE: NONE

							5
ALUMINUM LIGHT POLE		I MUN RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET	ROJE
30'-0" (9.144 m) MOUNTING HEIGHT			3015 16-00080-01-PV		102	92	Δ.
			BE-403	CONTRACT	NO. e	61G35	Ш. Н
ET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT	;		ш



TYPICAL SPLICE DETAIL

N.T.S.

GROUNDING LUG —

> INSULATED GROUND WIRE, 600 V TYPE RHW, SOLID COLOR GREEN, SIZE AS SPECIFIED

> > UNIT DUCT (TYP)

												U U
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W:\diststd\22x34\be702.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				3015	16-00080-01-PV	соок	102 93	– PR
	PLOT SCALE = 50.000 ′ / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					BE-702	CONTRAC	T NO. 61G35	— ші т
	PLOT DATE = 1/4/2008	DATE -	REVISED - SCA		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD		NID PROJECT		— ші

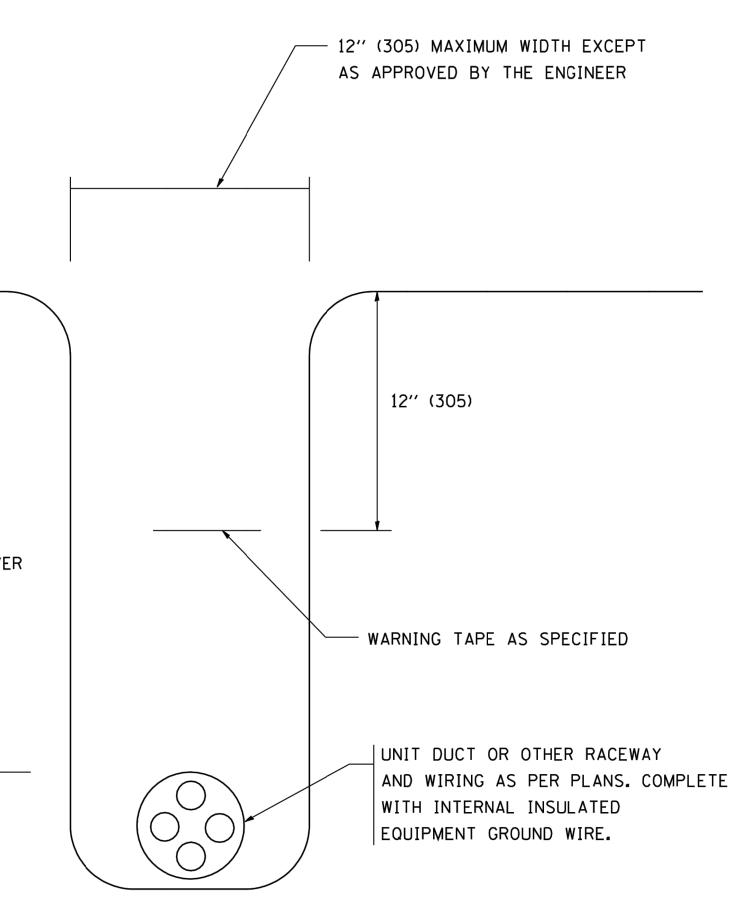
30''	(762)
MINIMUN	N	COV

R STANDARD-TYPE SMALL DIMENSION DOUBLE POLE FUSEHOLDER WITH INSULATED BOOTS, FUSING AND SOLID NEUTRAL. (SEE SPECS) CABLE SPLICE (TYP.) NEUTRAL CONDUCTOR, 600V TYPE RHW. SOLID COLOR WHITE, SIZE AS SPECIFIED POLE BASE

POLE WIRING DETAIL

W

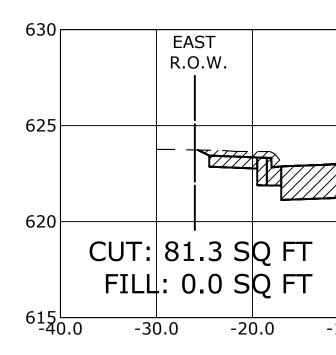
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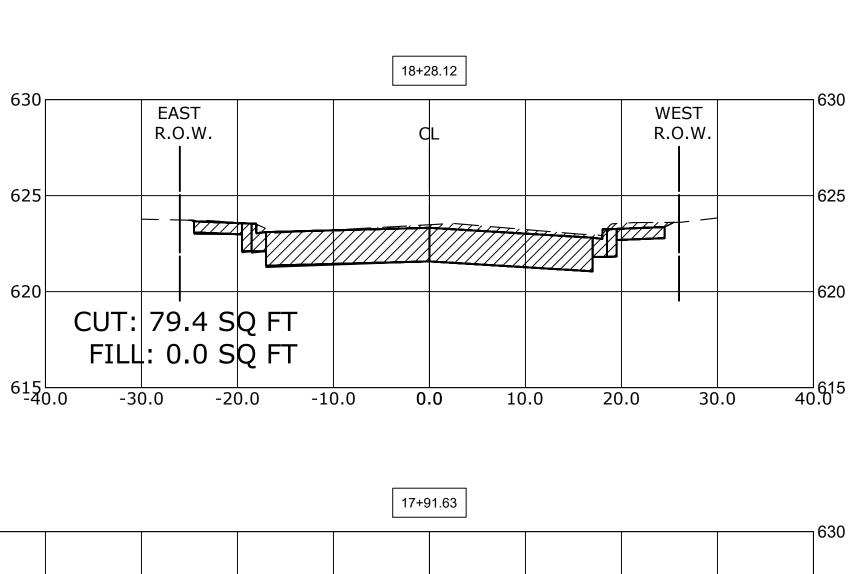


TYPICAL WIRING IN TRENCH DETAIL

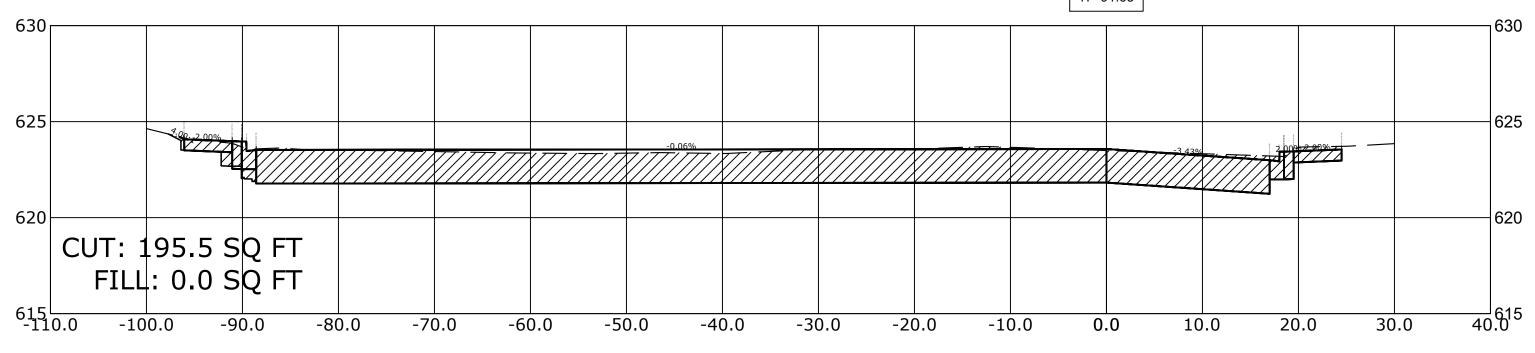
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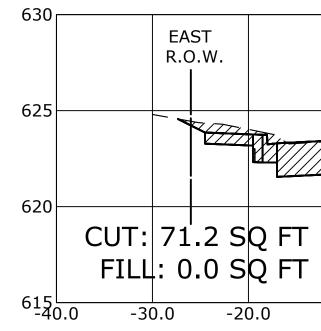
E. PROJECT NO. 120-19-0080





18+50.00





		9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
ENGINEERING	 Civil Engineers Municipal Consultants Established 1911 	Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DRAWN -	DMM, SFB	REVISED -
			CHECKED -	JGG, MWV	REVISED -
			DATE -	2-11-20	REVISED -

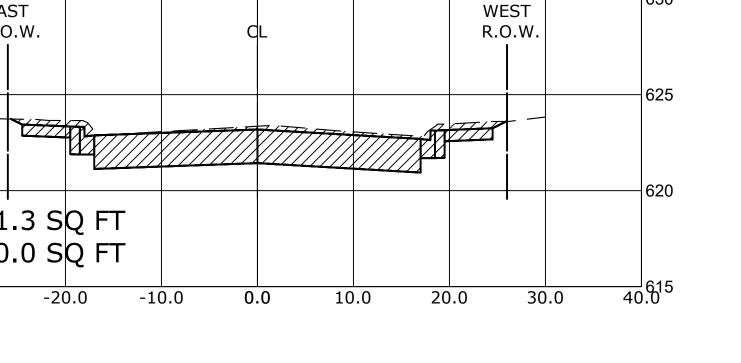


CROSS SECT

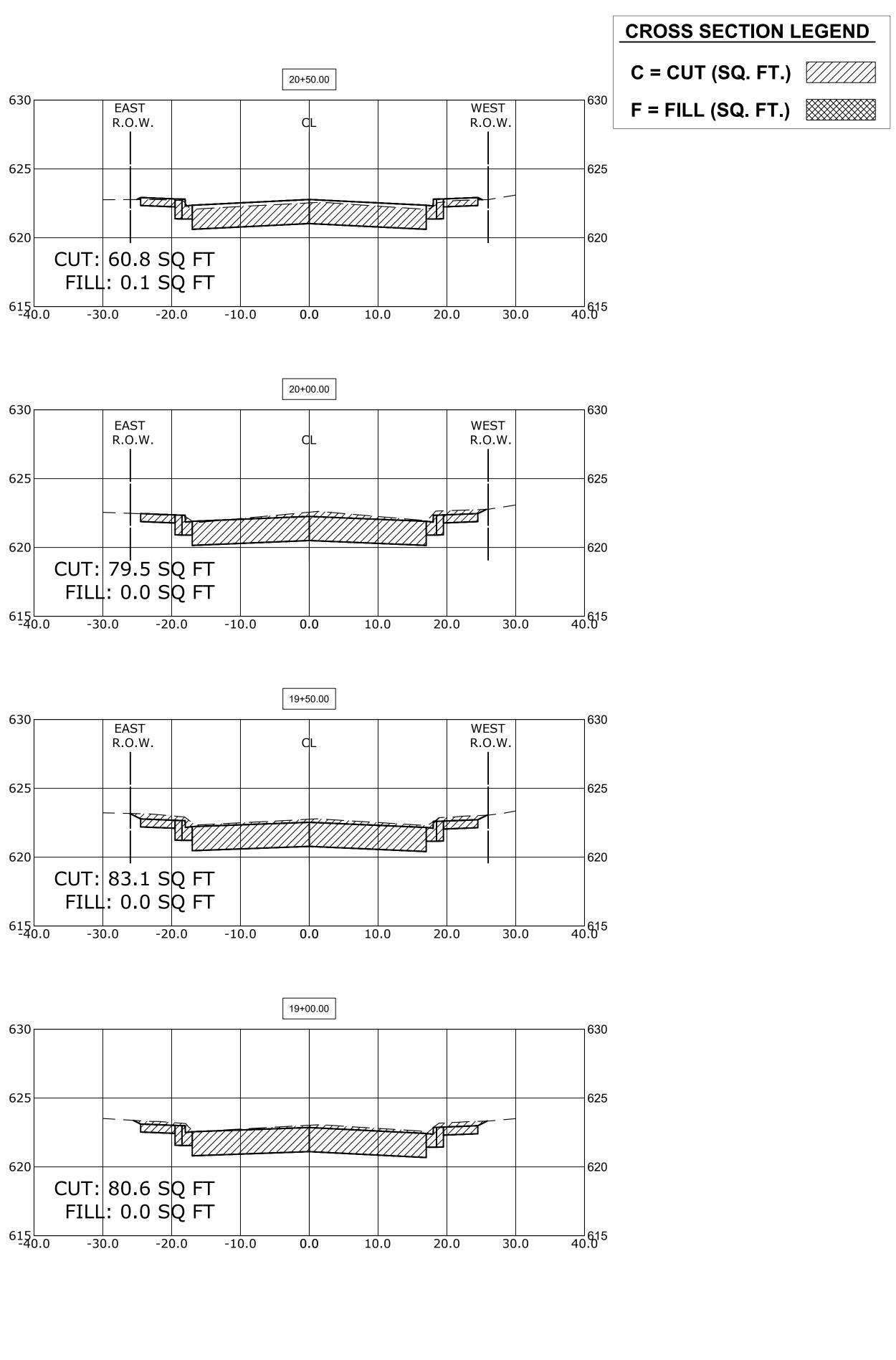
SCALEH:1"=10',V:1"=5' SHEET NO. 1 OF 9 SHEETS

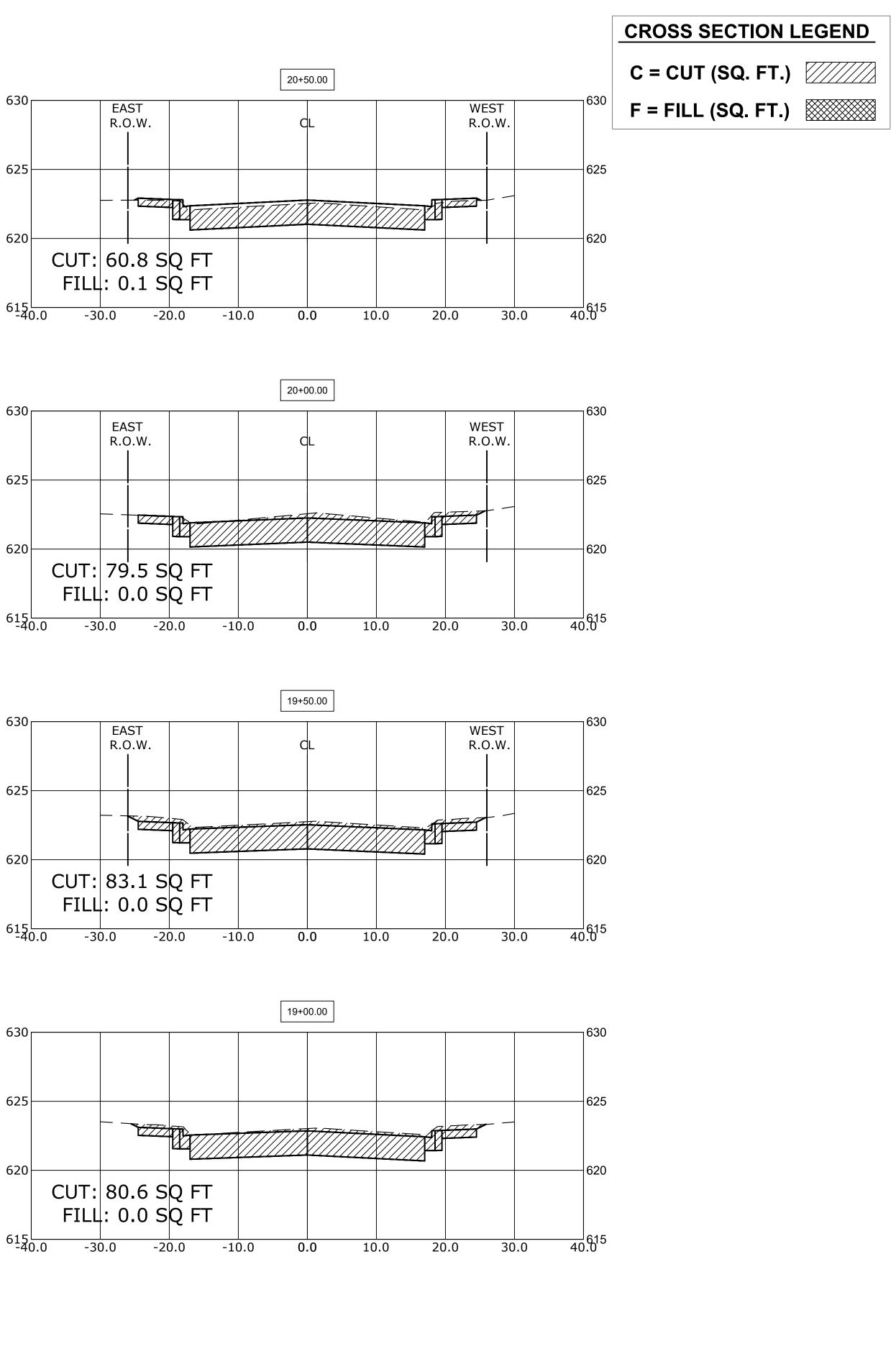
BRAGA DR

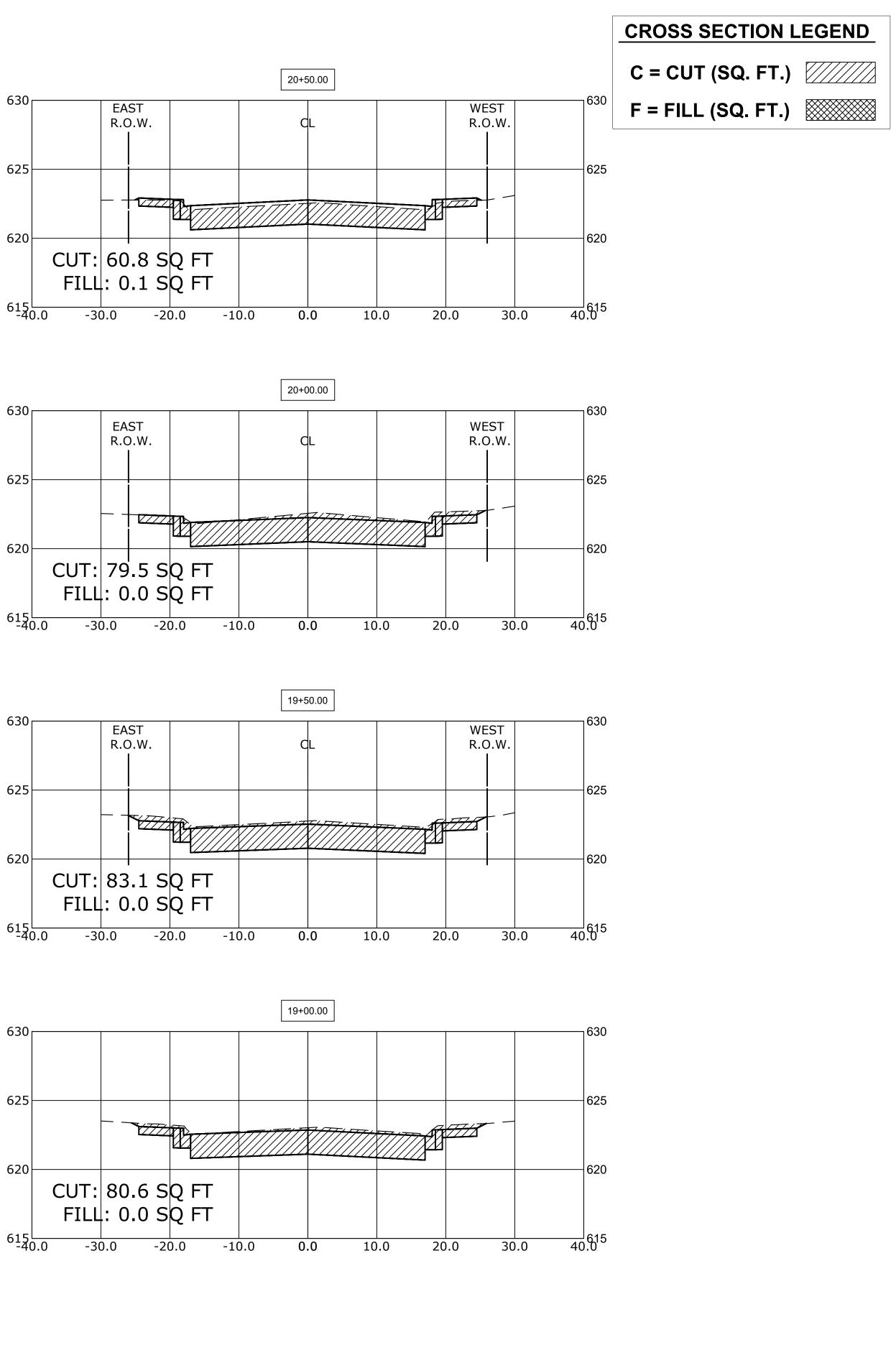
17+45.12 1630 WEST R.O.W. 625 TTI 620 40.0 -10.0 10.0 20.0 30.0 0.0

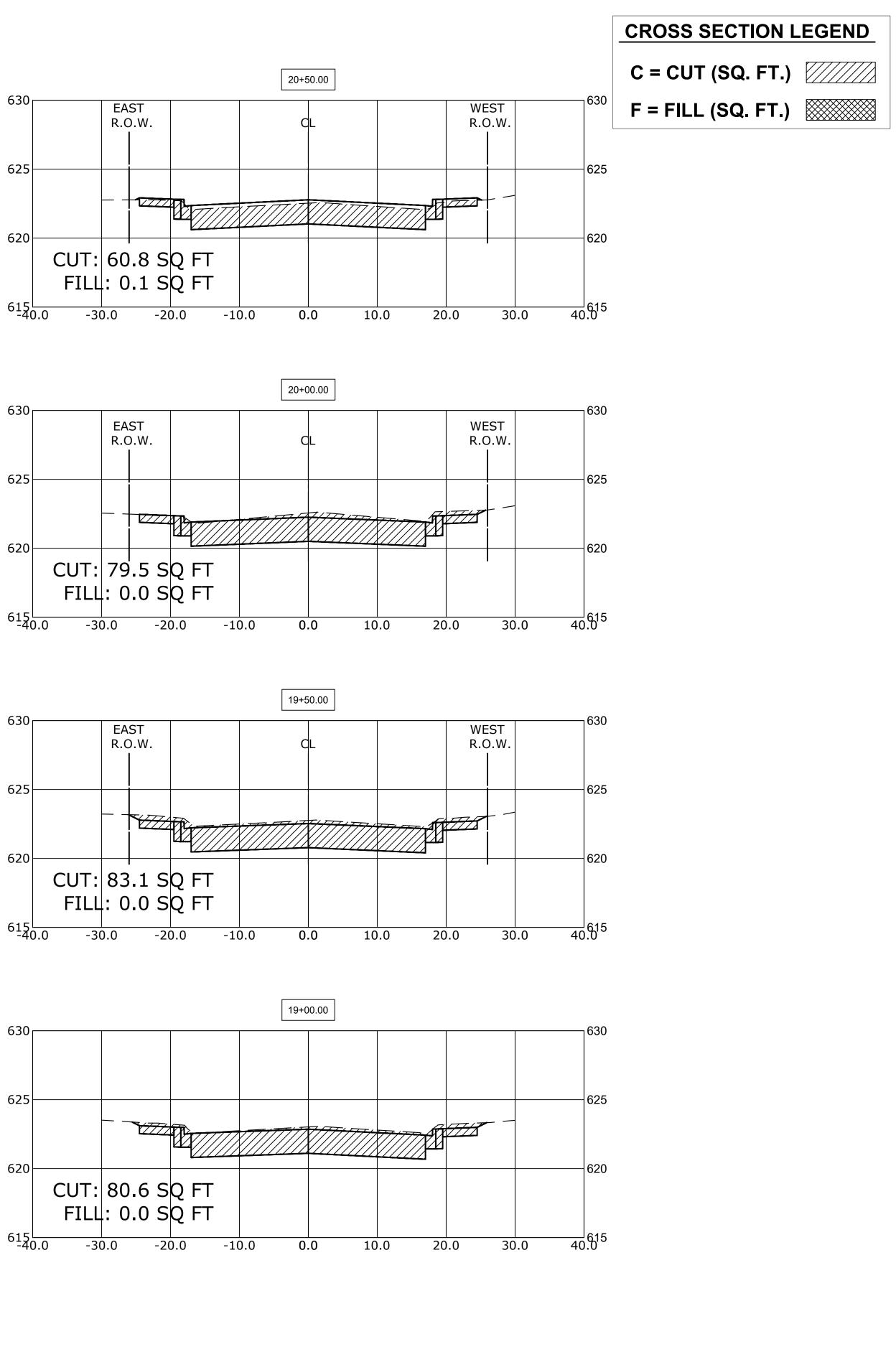


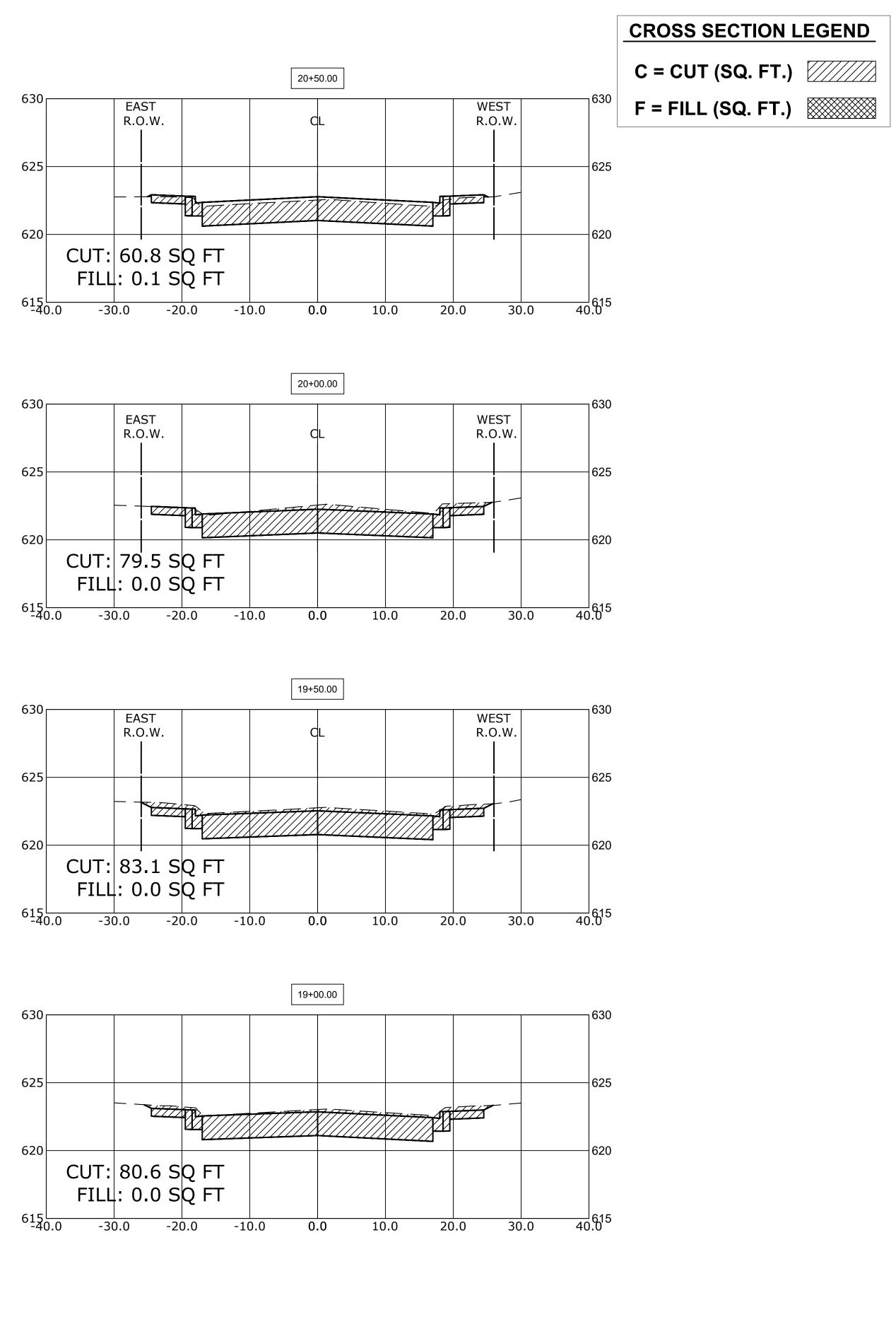
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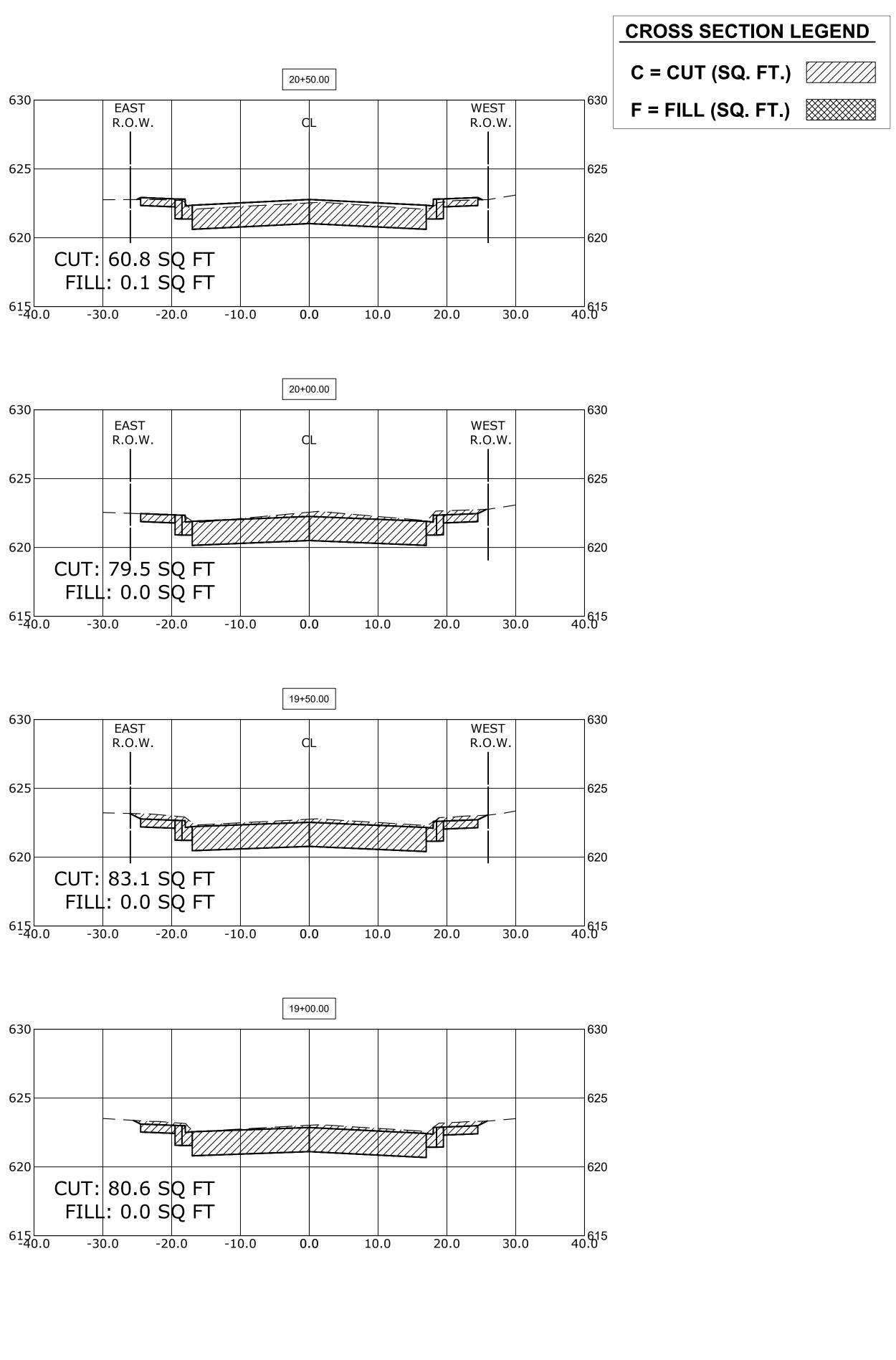




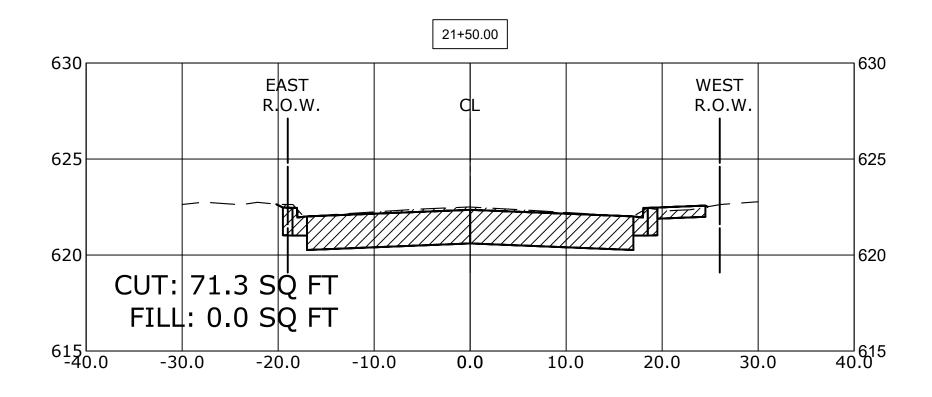


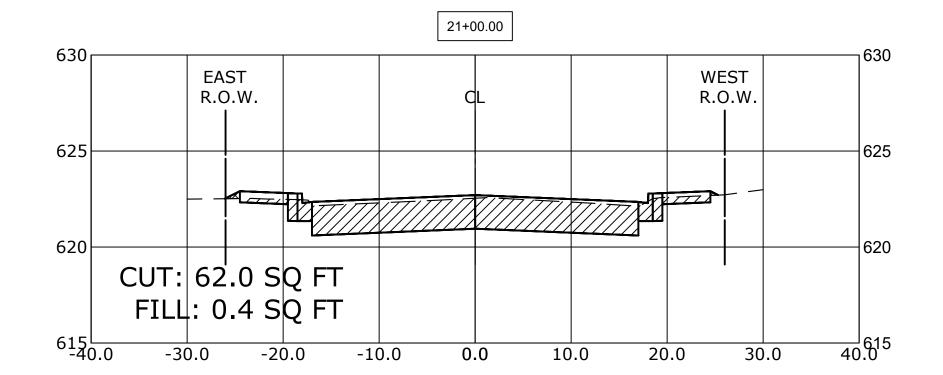


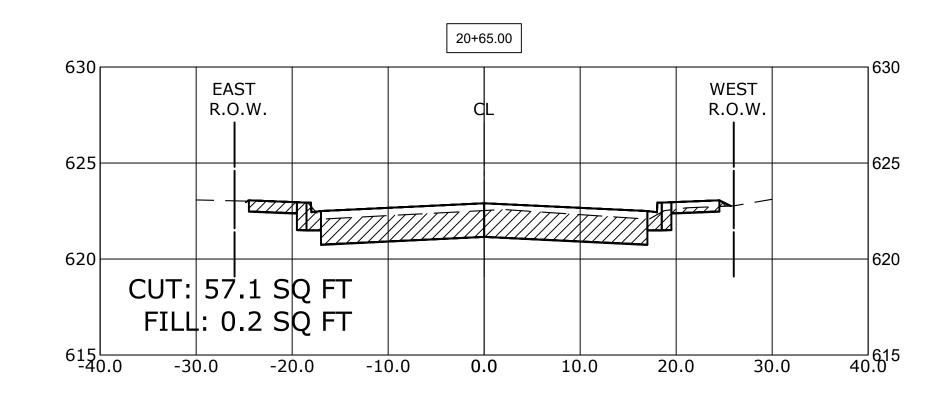




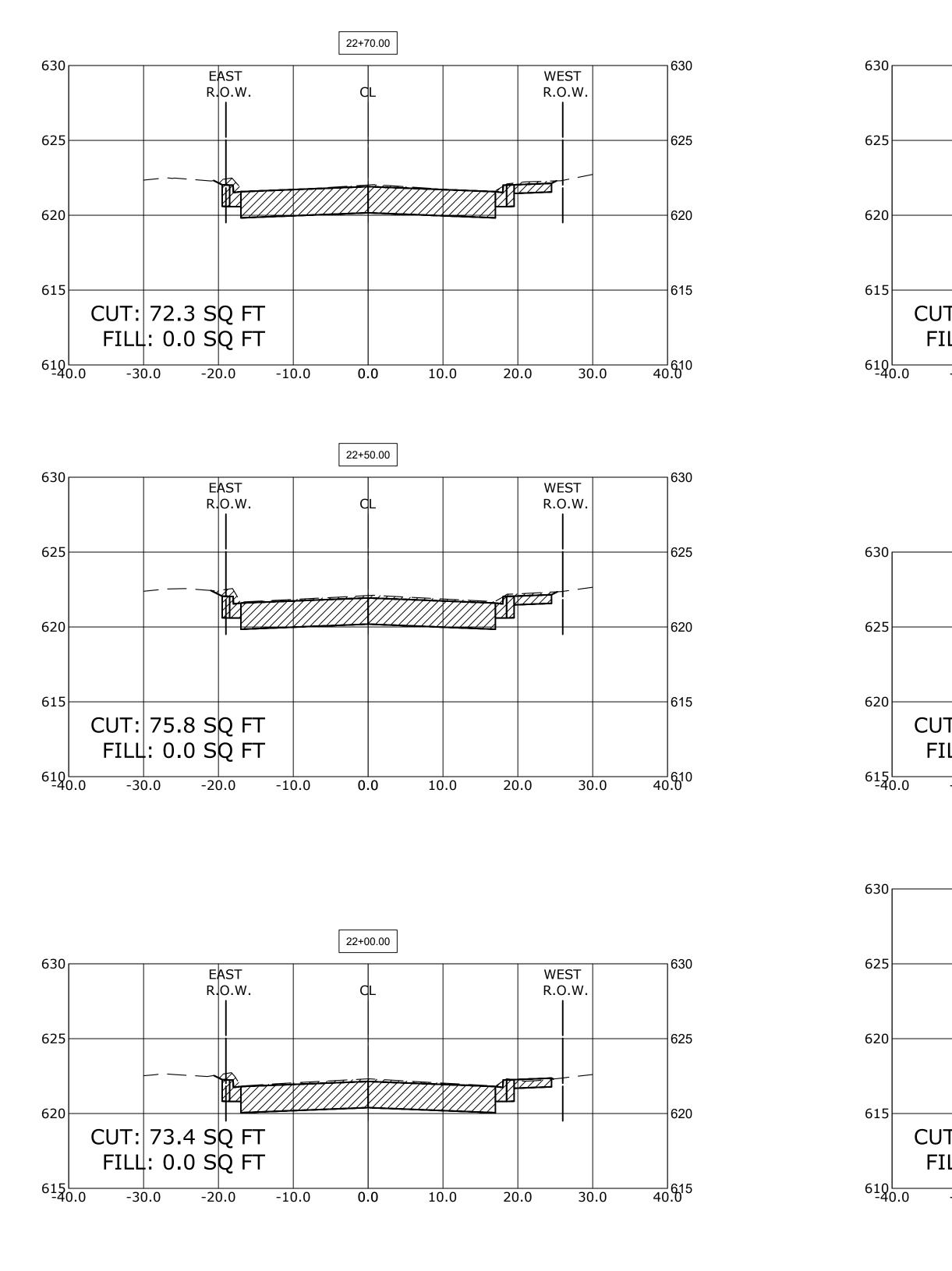
RIVE					MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TIONS			3015	16-00080-01-PV	СООК	102	94		
			FIELD B	FIELD BOOK NO. : - CONTRACT NO. 61G35					
	STA.	17+46	TO STA.	20+50	FED. RO	OAD DIST. NO. 1 ILLINOIS	FED. AID PROJEC	Т	





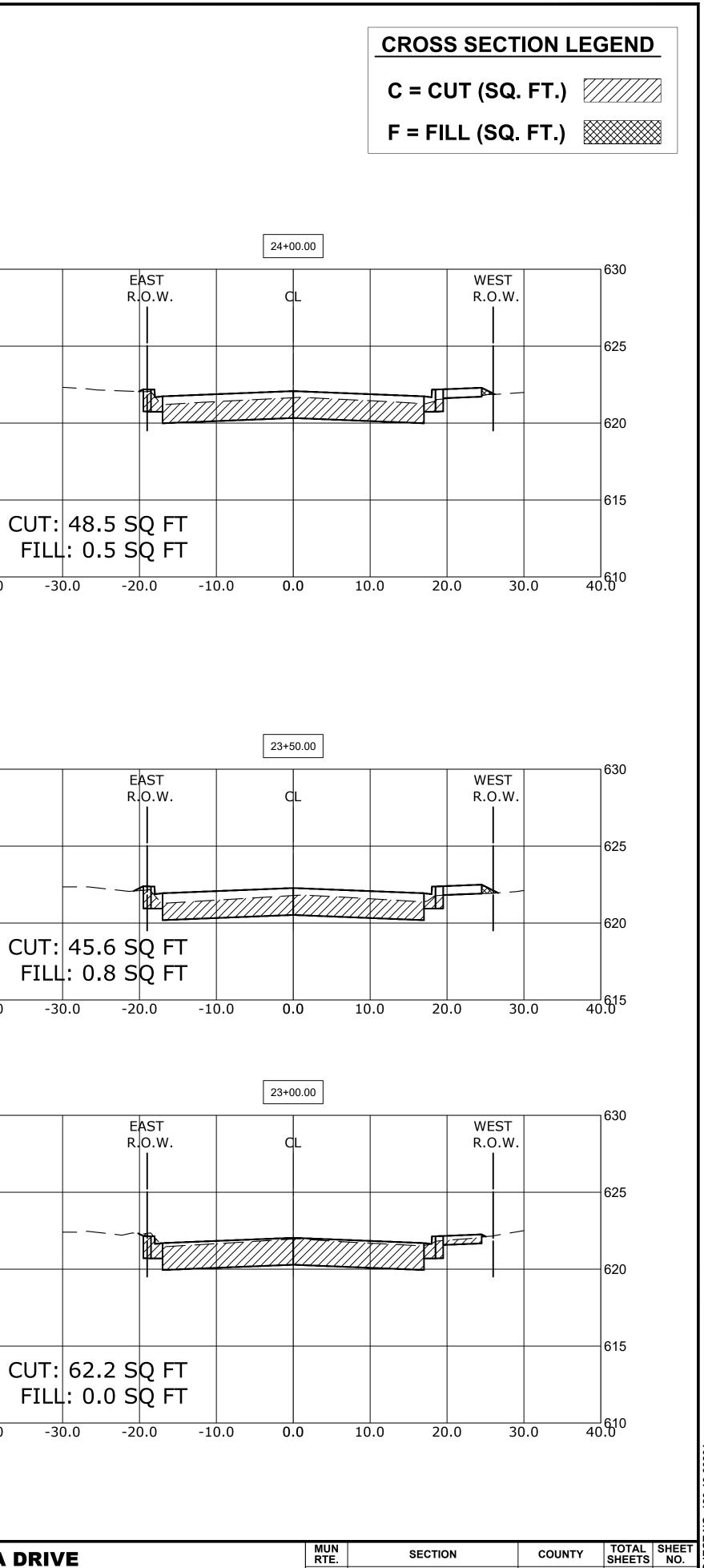


			9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
	ANCOCK	 Civil Engineers Municipal Consultants Established 1911 	Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DRAWN -	DMM, SFB	REVISED -
				CHECKED -	JGG, MWV	REVISED -
				DATE -	2-11-20	REVISED -



BRAGA DRIVE CROSS SECTIONS

SCALEH:1"=10',V:1"=5' SHEET NO. 2 OF 9 SHEETS STA. 20+65



3015

TO STA. 24+00

FIELD BOOK NO. : -

16-00080-01-PV

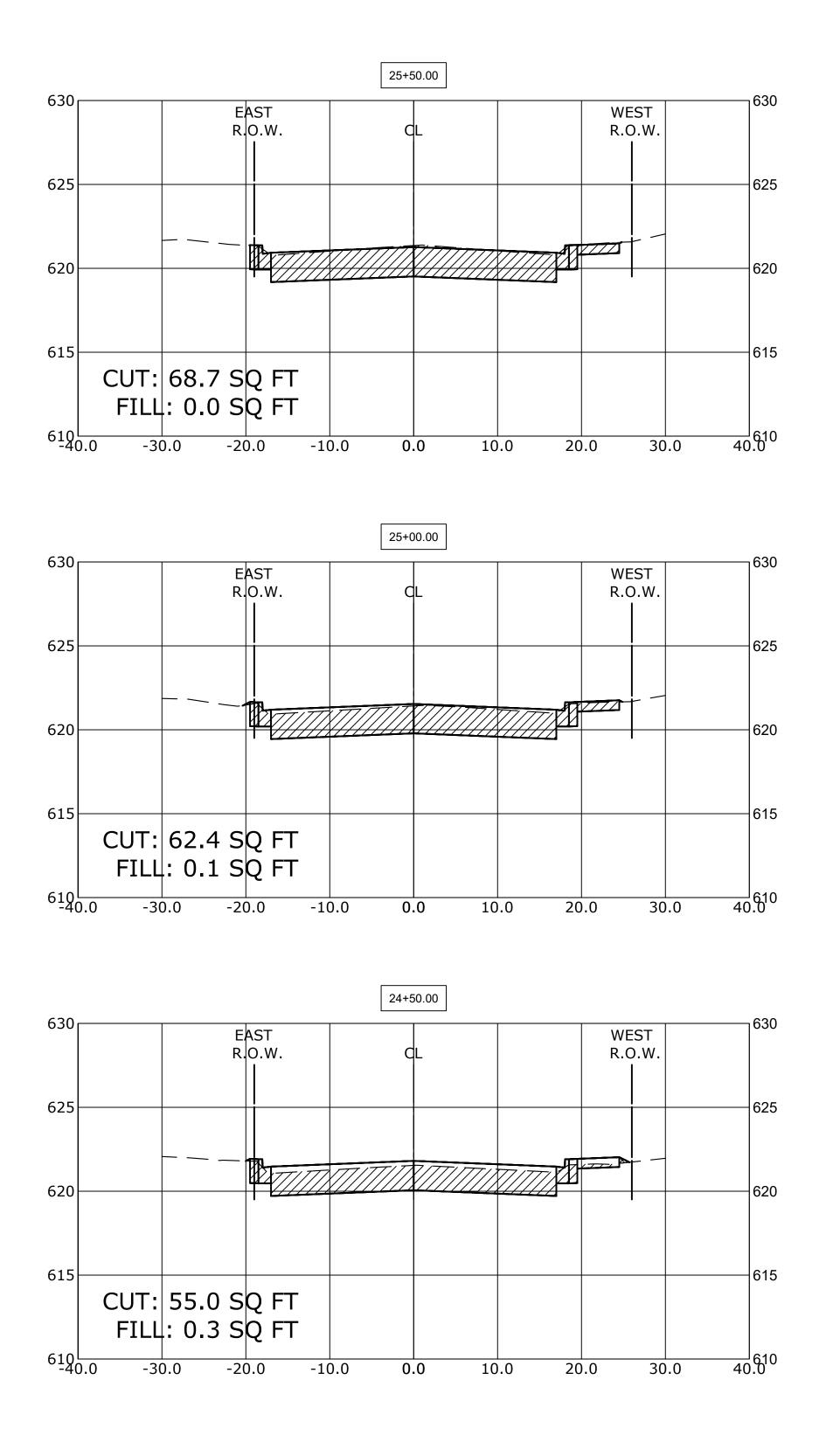
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

95

102

COOK

CONTRACT NO. 61G35



	9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
HANCOCK A Municipal Consultants	Westchester, IL, 60154-2780	DRAWN -	DMM, SFB	REVISED -
	Phone: 708 865-0300 www.ehancock.com	CHECKED -	JGG, MWV	REVISED -
		DATE -	2-11-20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

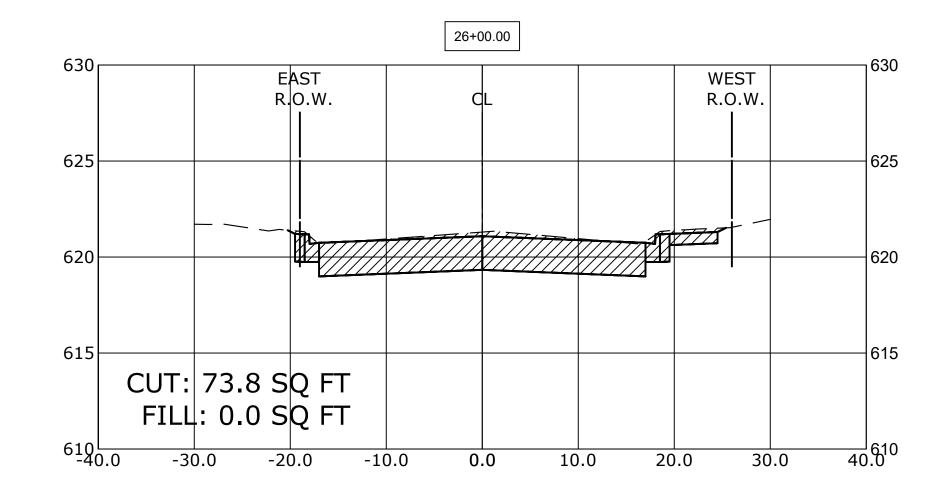
610 -40.0

-30.0

-20.0

BRAGA DR

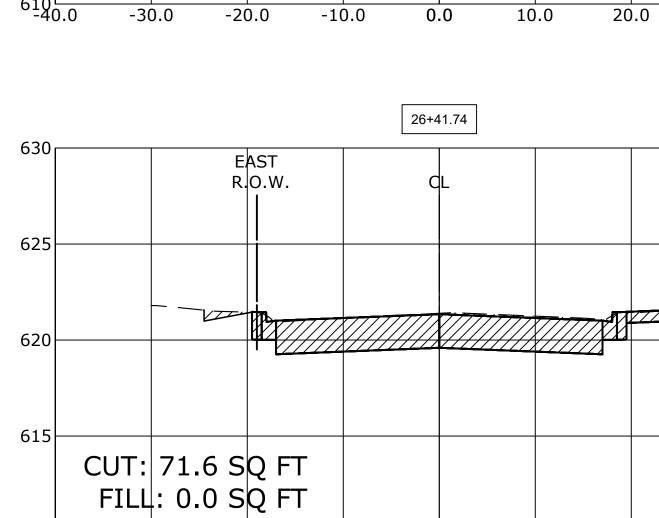




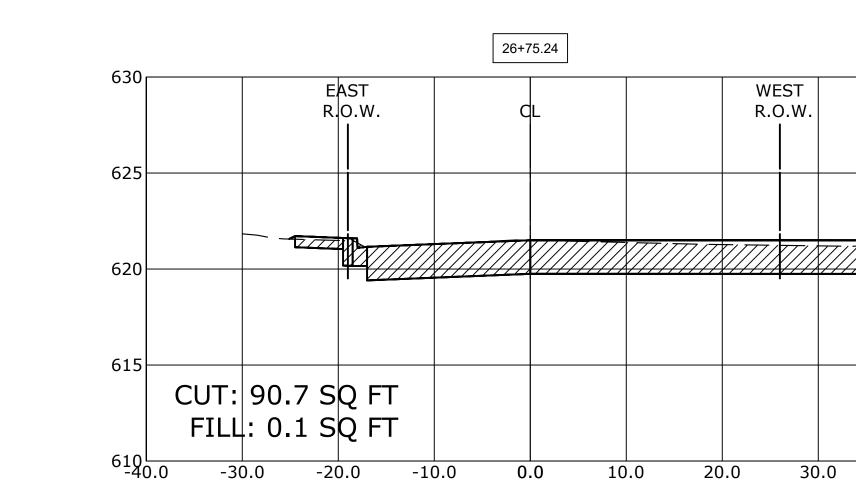
SCALEH:1"=10',V:1"=5' SHEET NO. 3 OF 9 SHEETS

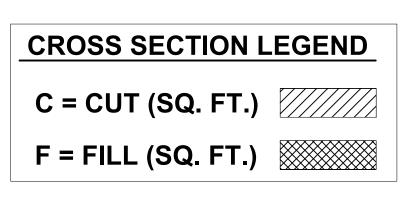
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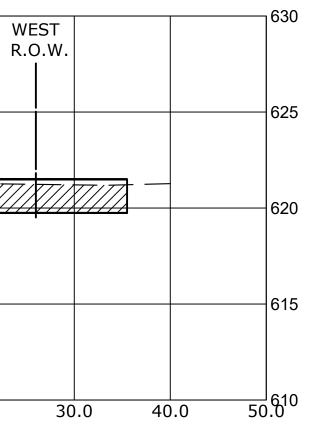
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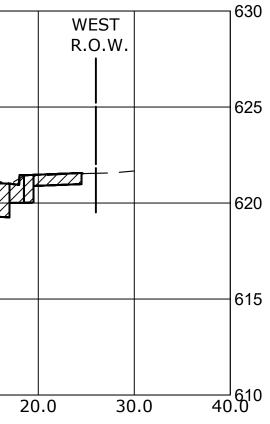


-10.0

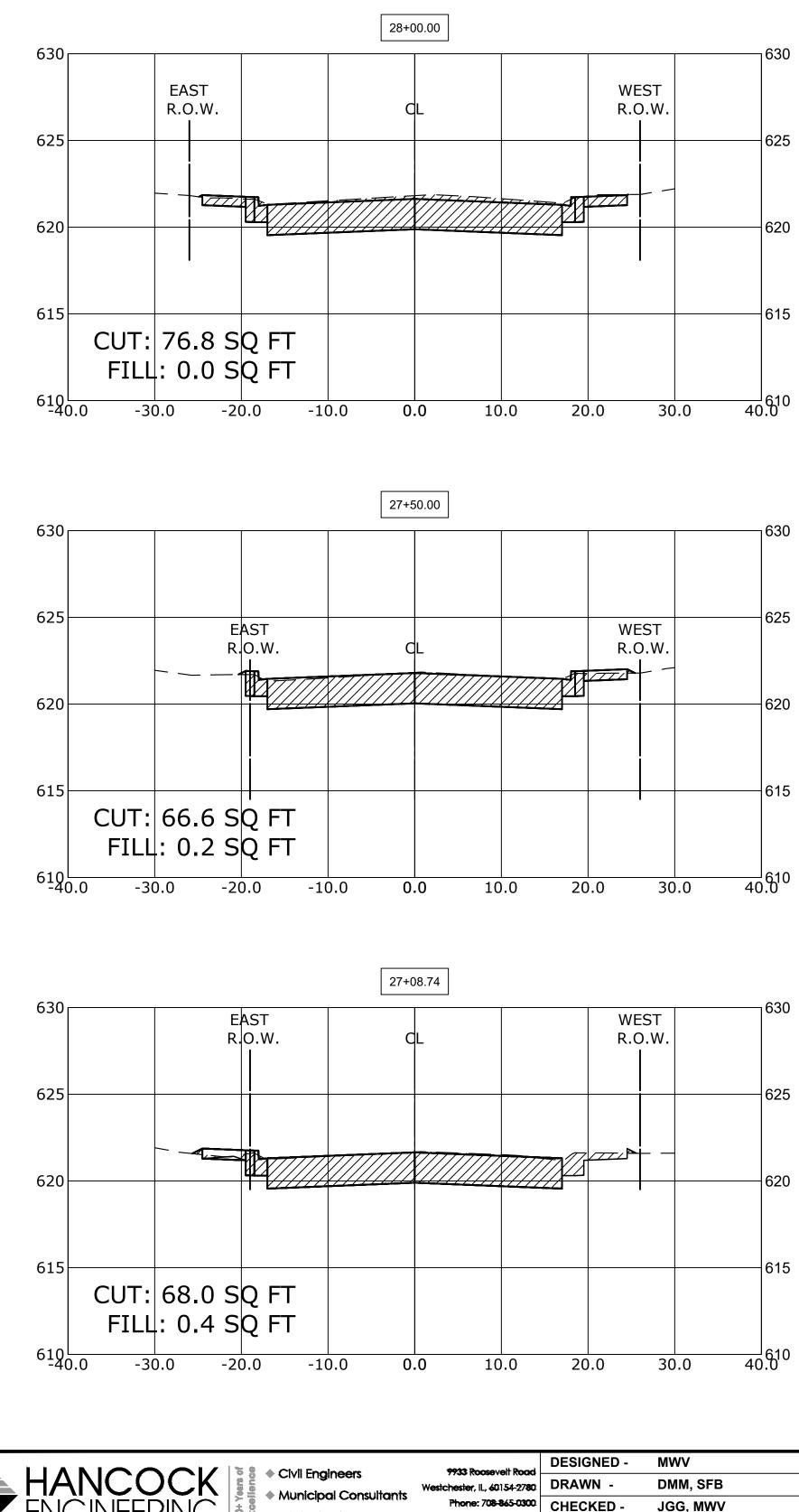




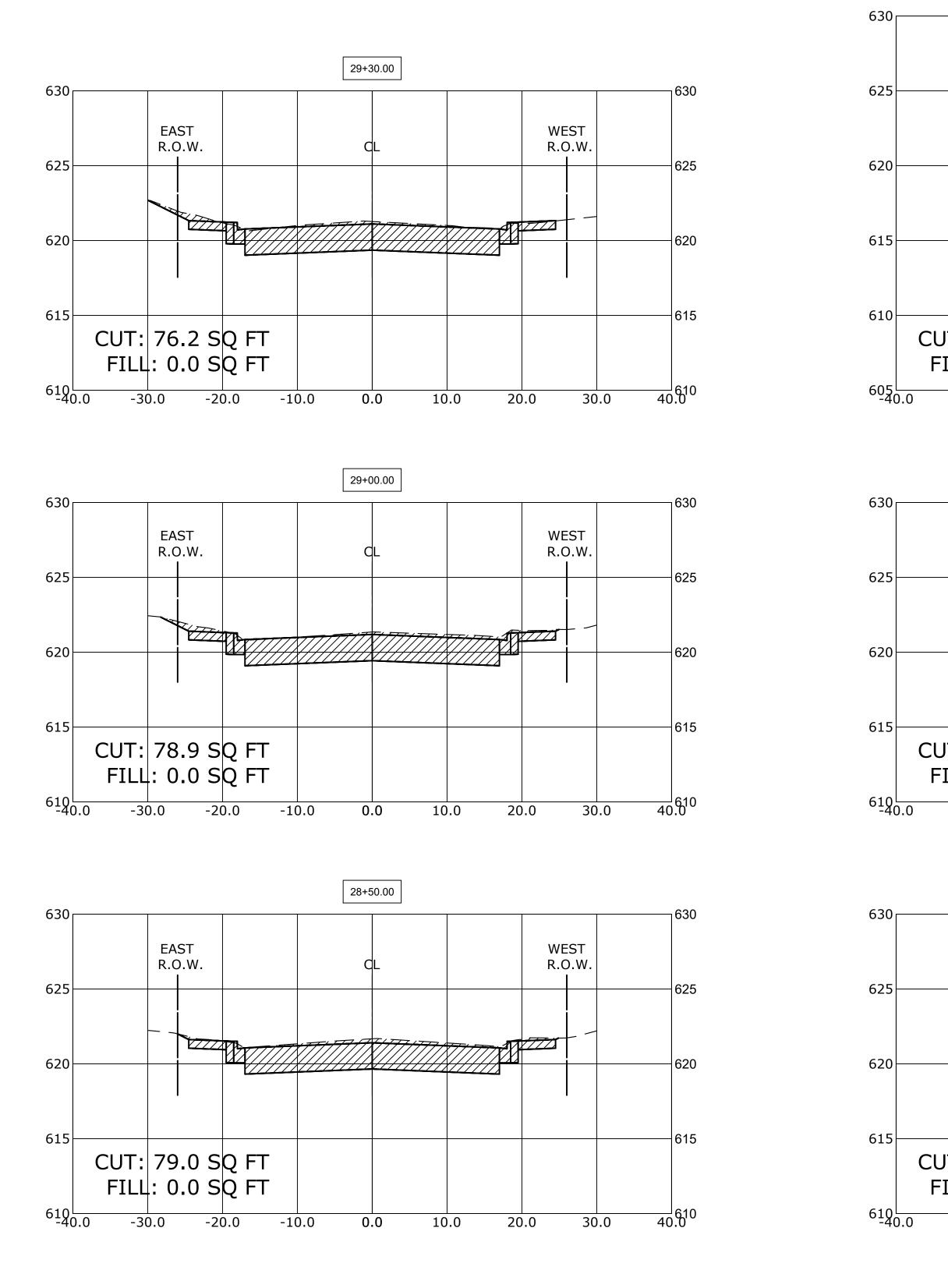




RIVE TIONS			MUN RTE.	SECTION	COUNTY	SHEET NO.					
			3015	16-00080-01-PV	СООК	102	96				
			FIELD B	OOK NO. : -	CONTRACT NO. 61G35						
	STA.	24+50	TO STA.	26+75	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



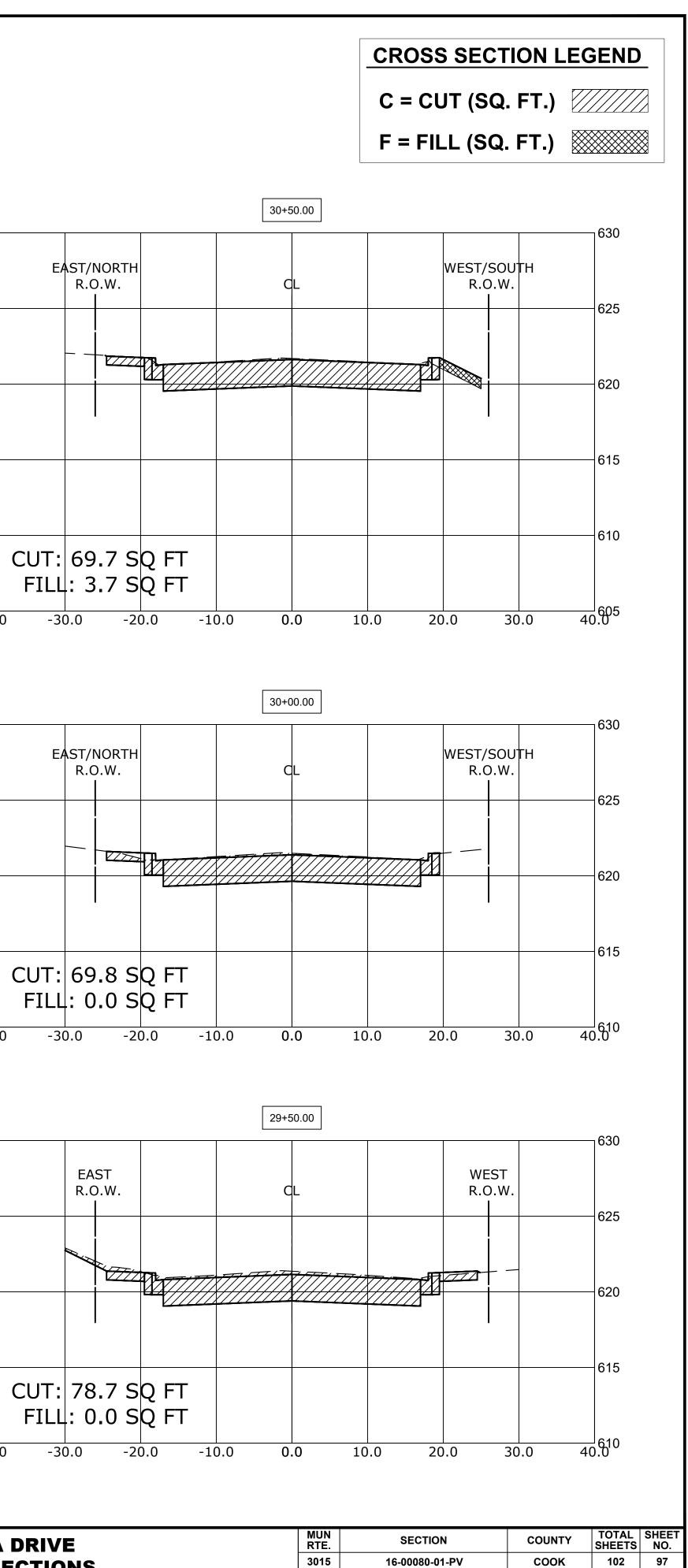
REVISED -**REVISED** -**JFFRING** JGG, MWV REVISED -CHECKED -Established 1911 DATE 2-11-20 **REVISED** -



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRAGA DRIVE CROSS SECTIONS

SCALEH:1"=10',V:1"=5' SHEET NO. 4 OF 9 SHEETS STA. 27+08

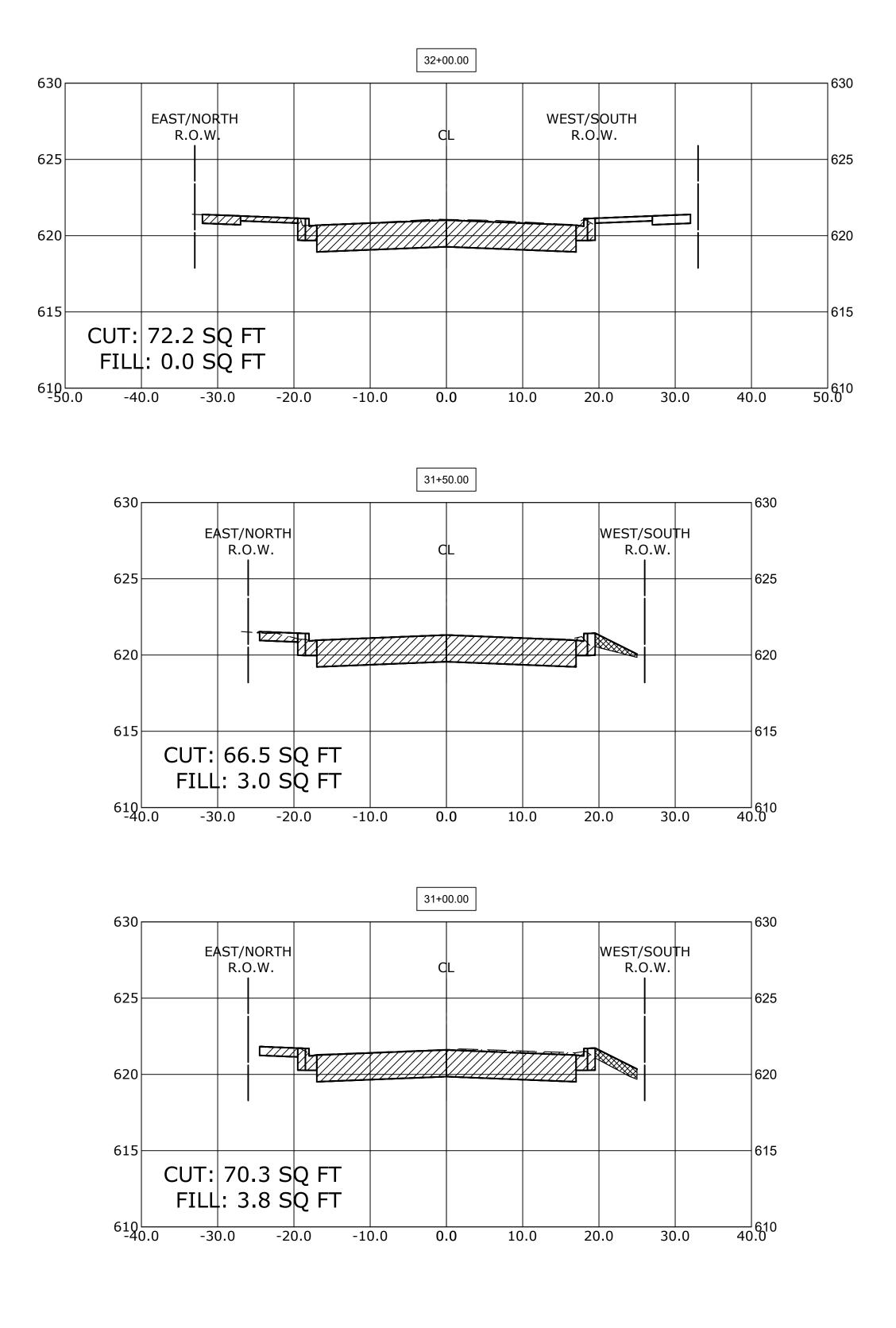


FIELD BOOK NO. : -

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

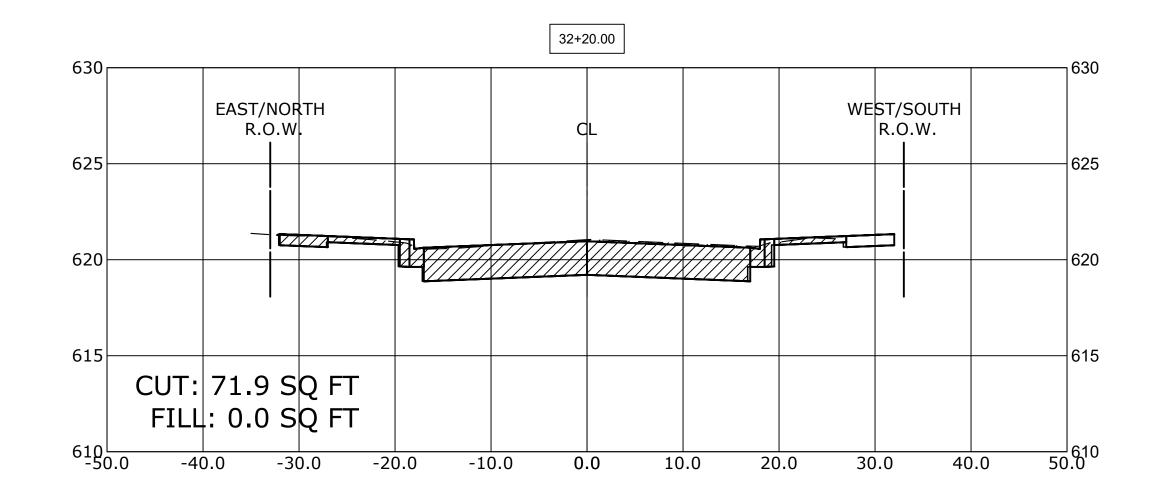
TO STA. 30+50

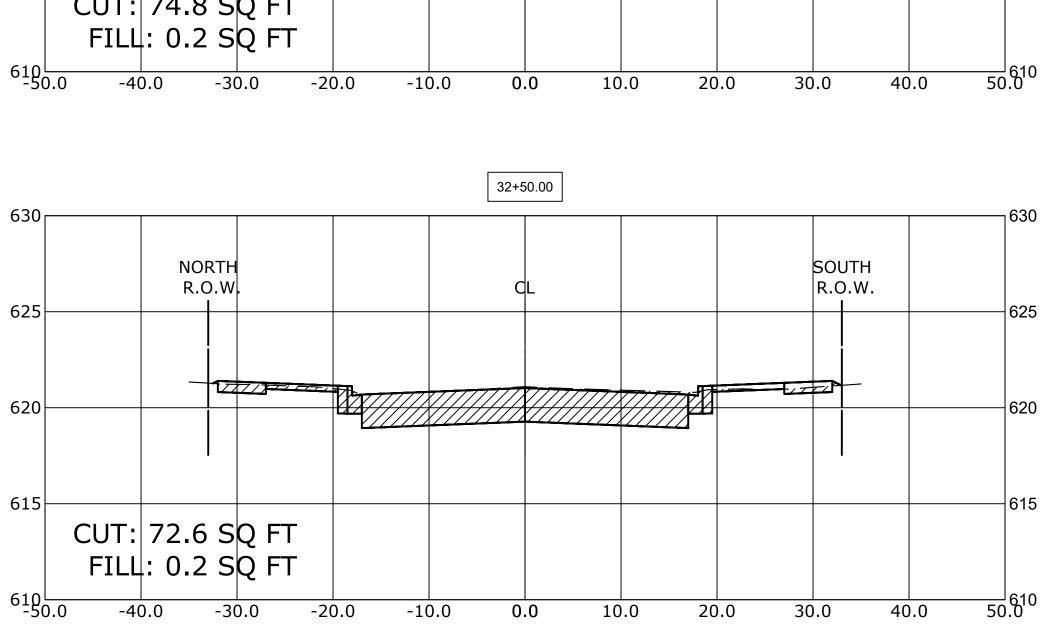
CONTRACT NO. 61G35

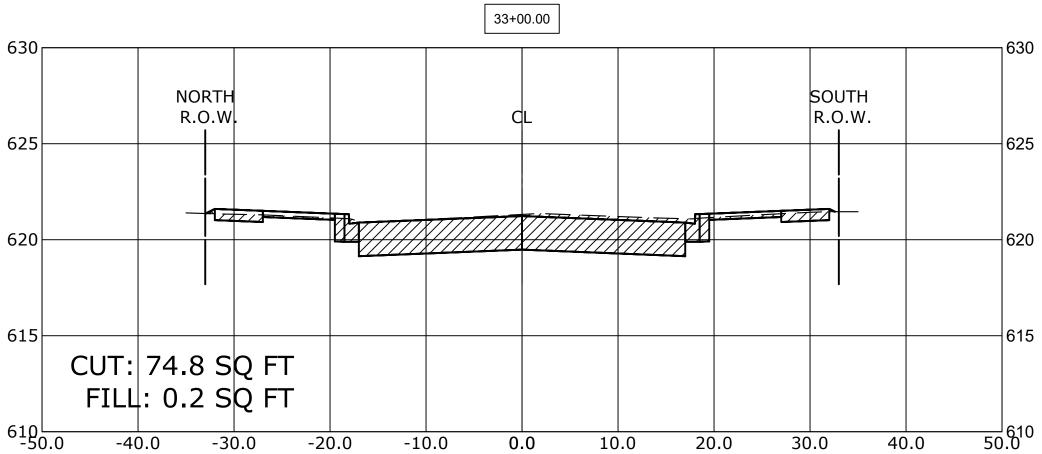


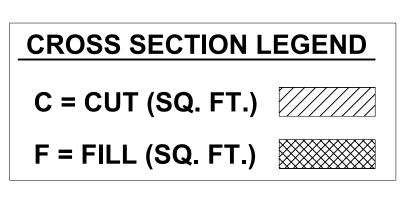
		9933 Roosevelt Road	DESIGNED -	MWV	REVISED -
			DRAWN -	DMM, SFB	REVISED -
			CHECKED -	JGG, MWV	REVISED -
	$\Box N \bigcirc I N \Box \Box I \square N \bigcirc @ \square > Established 1911$	www.ehancock.com	DATE -	2-11-20	REVISED -

SCALEH:1"=10',V:1"=5' SHEET NO. 5 OF 9 SHEETS

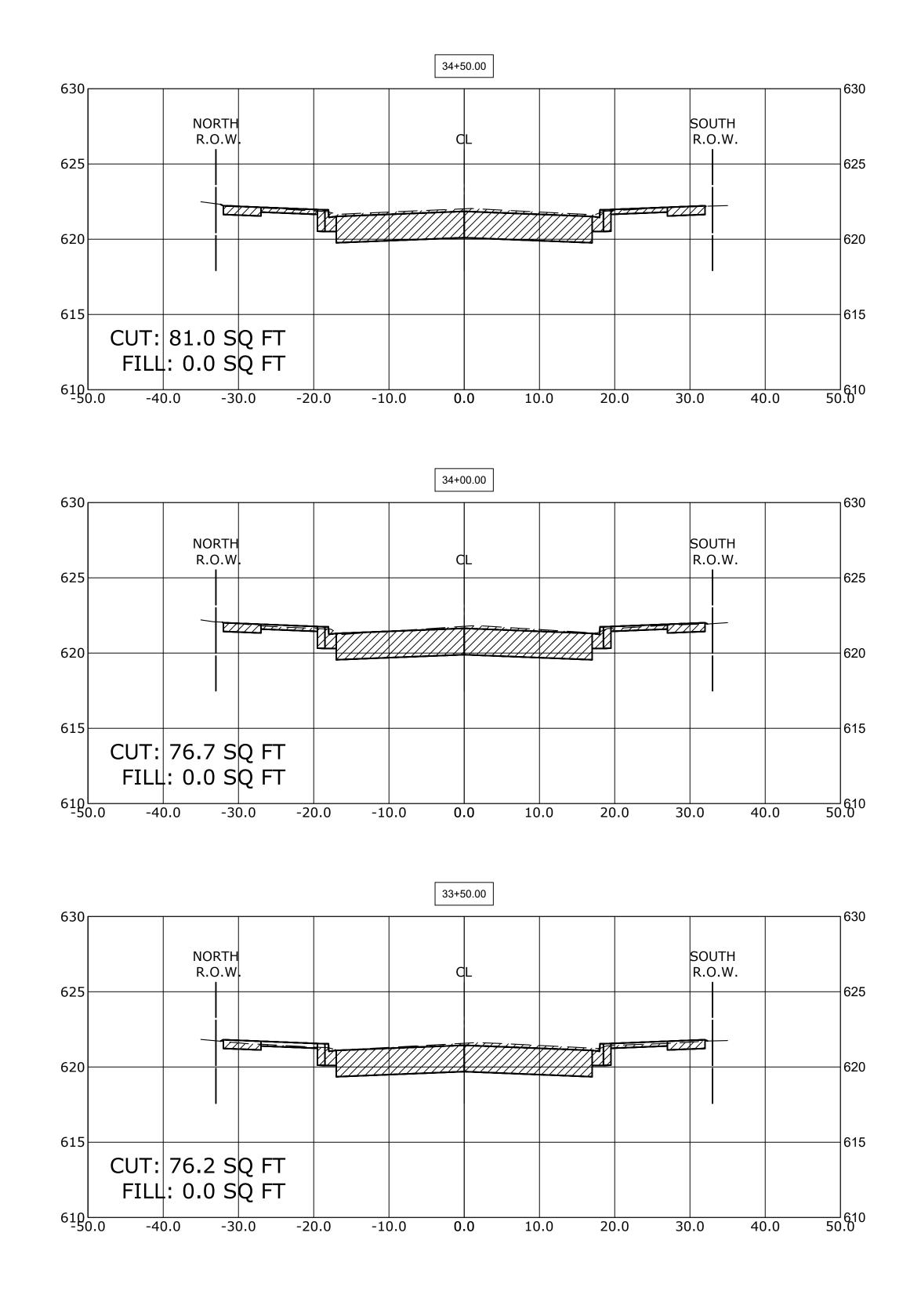








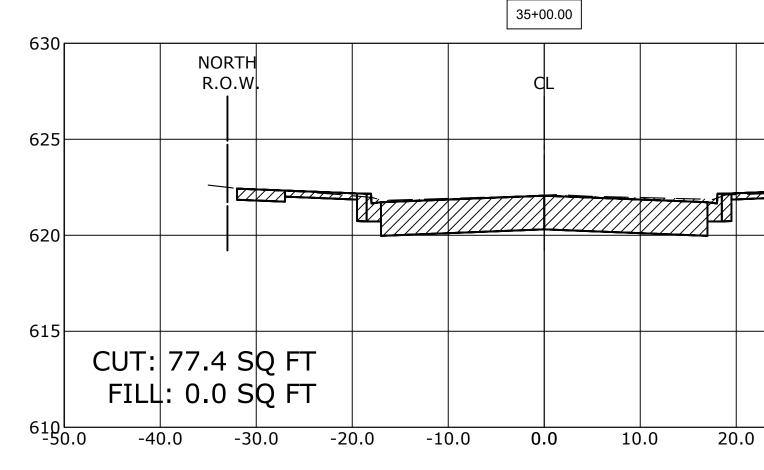
	BRAGA DRIVE CROSS SECTIONS				MUN RTE.	SECTION			COUNTY TOTAL SHEETS		SHEET NO. 98	JEC			
CF					3015	5 16-00080-01-PV			COOK	102	98	R			
					FIELD BOOK NO. : -				CONTRACT NO. 61G35			щ			
5	OF	9	SHEETS	STA.	31+00	TO STA.	33+00	FED. R	OAD DIST. NO. 1	ILLINOIS	FED.	AID PROJECT			Ш

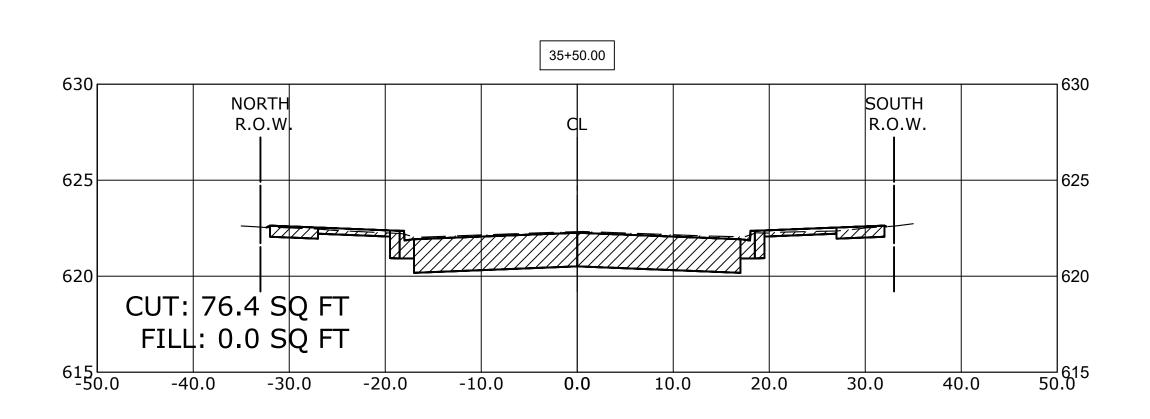


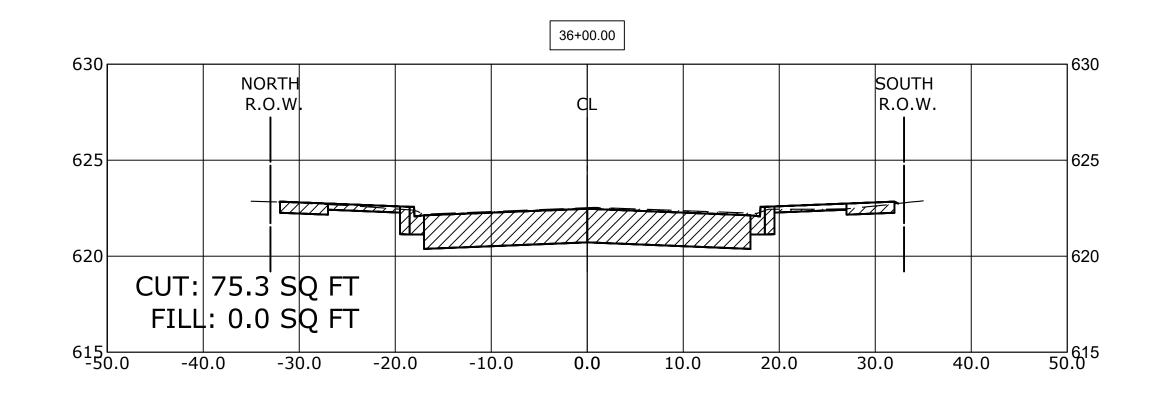
		9933 Roosevelt Road Westchester, IL, 60154-2780 Phone: 708-865-0300 www.ehancock.com	DESIGNED -	MWV	REVISED -
	HANCOCK Municipal Consultants		DRAWN -	DMM, SFB	REVISED -
			CHECKED -	JGG, MWV	REVISED -
			DATE -	2-11-20	REVISED -

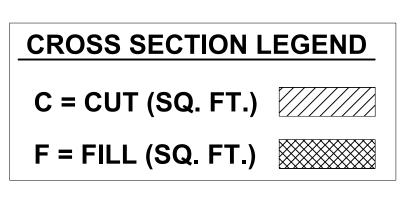
BRAGA DR CROSS SECT

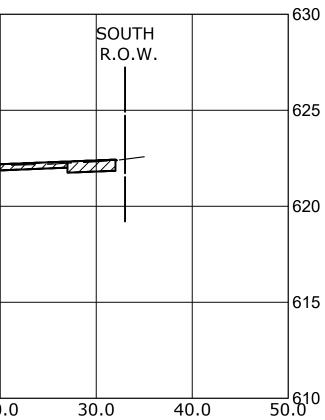
SCALEH:1"=10',V:1"=5' SHEET NO. 6 OF 9 SHEETS



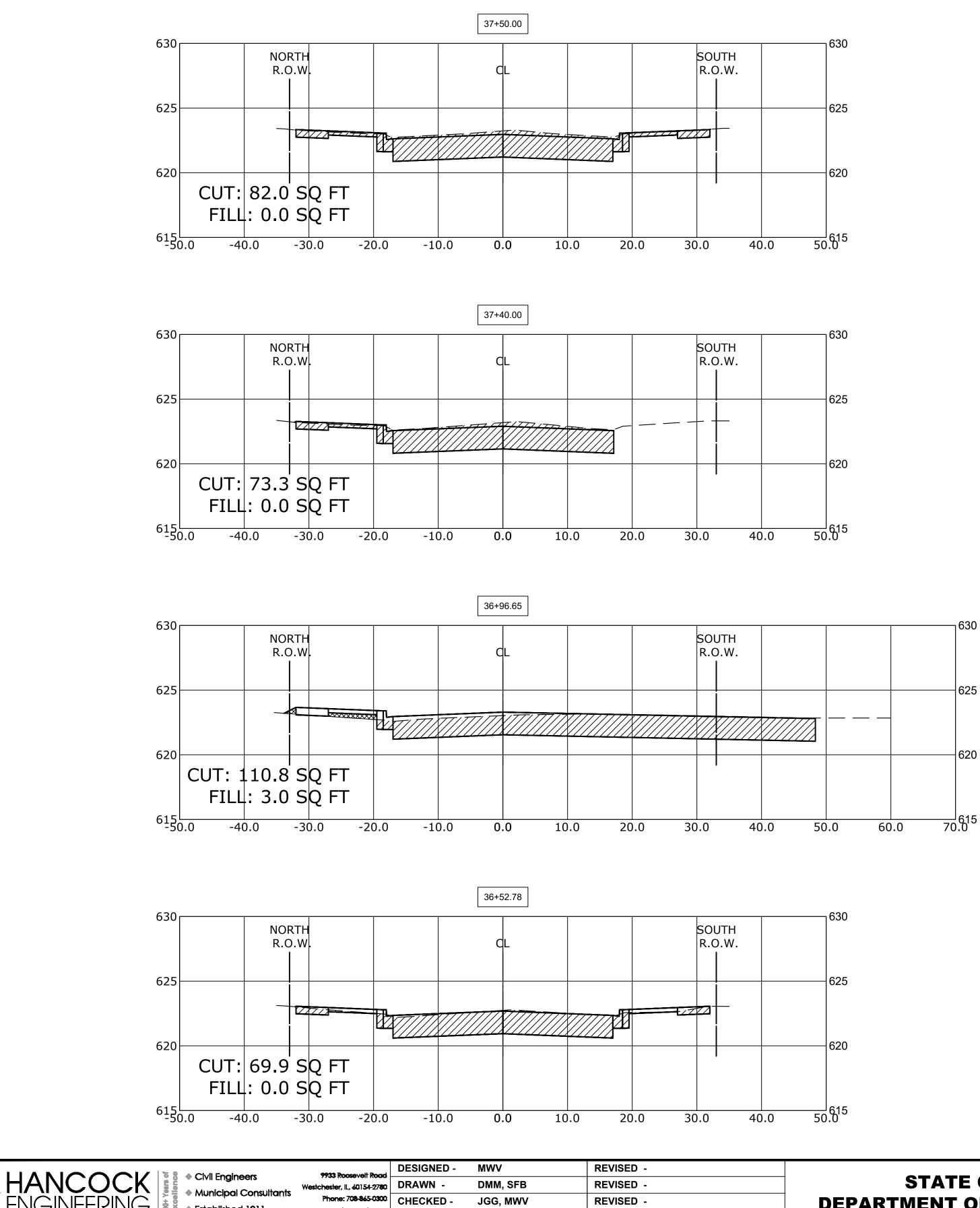








RIVE			MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Т	TIONS			16-00080-01-PV	СООК	99	
				OOK NO. : -	CONTRACT N	O. 61G35	
	STA. 33+50	TO STA. 36+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-11-20

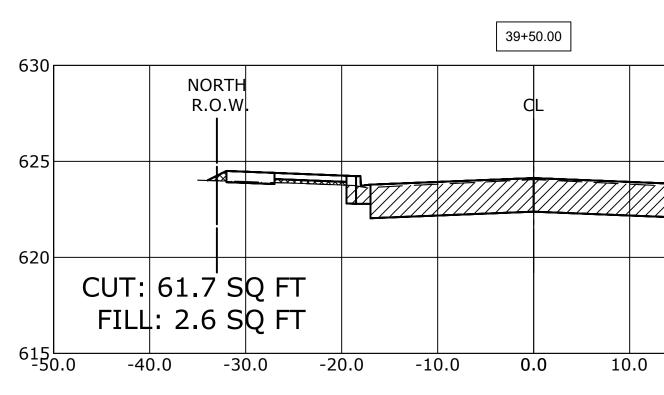
REVISED -

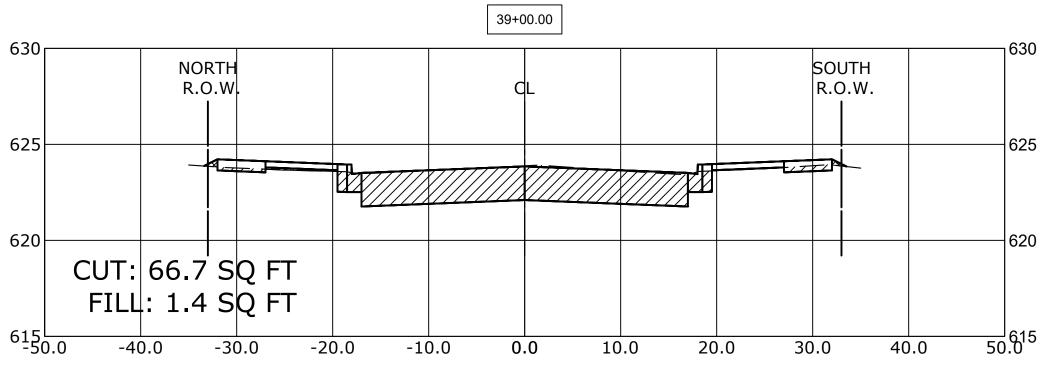
DATE

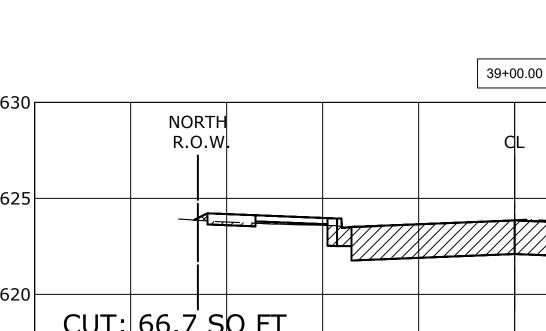
Established 1911

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

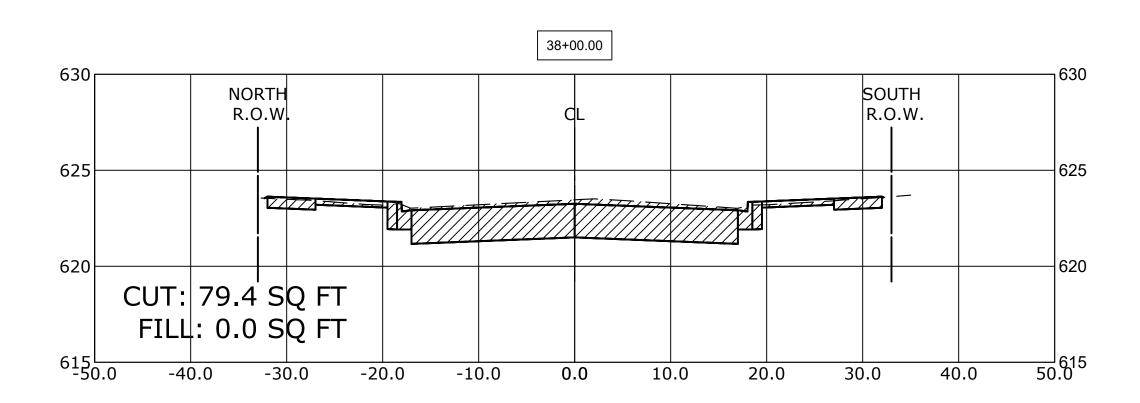
BRAGA DR **CROSS SECT**

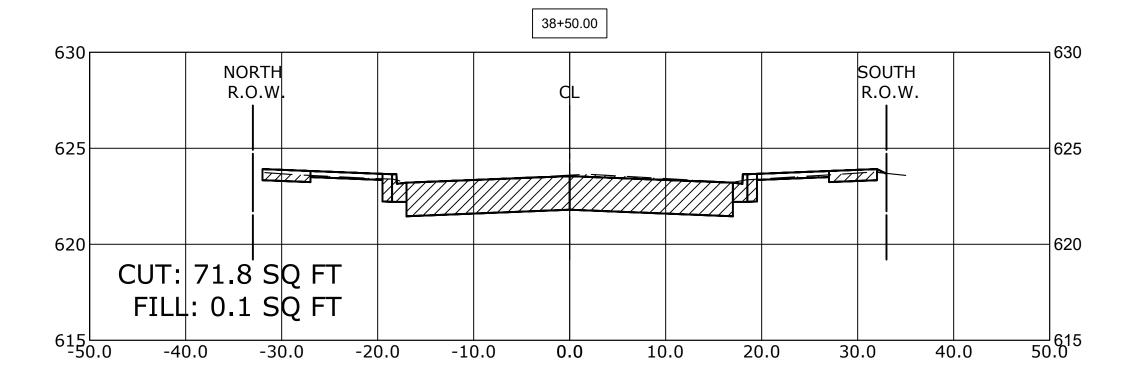






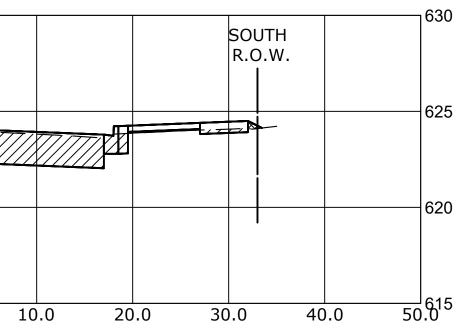
SCALEH:1"=10',V:1"=5' SHEET NO. 7 OF 9 SHEETS



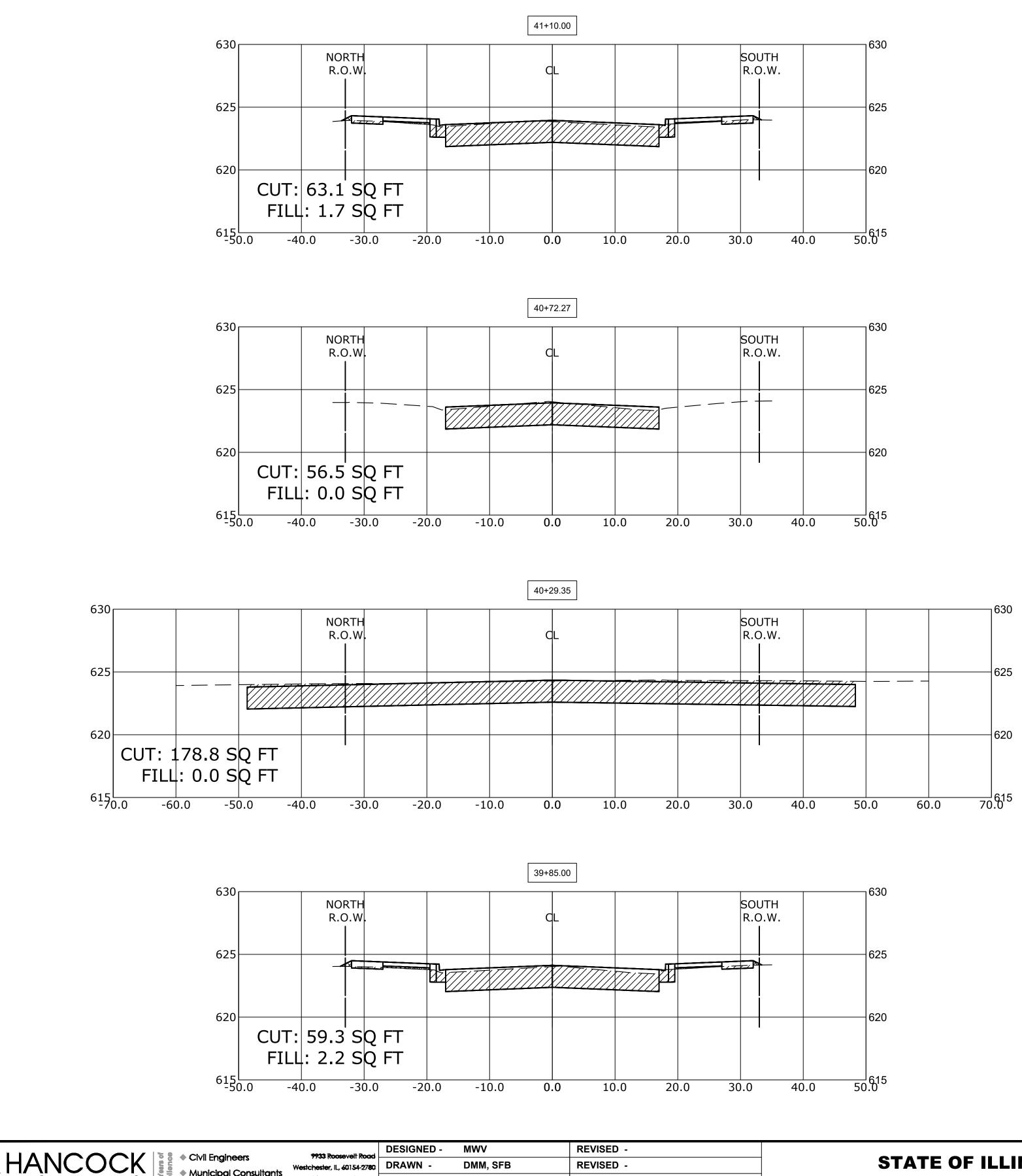




CROSS SECTION LEGEND C = CUT (SQ. FT.) F = FILL (SQ. FT.)



R	RIVE			MUN RTE.	SECTION	COUNTY	SHEET NO.			
TIONS			3015	16-00080-01-PV	СООК	102	100			
				FIELD B	BOOK NO. : -		CONTRACT NO. 61G35			
	STA. 36+52	TO STA.	39+50	FED. R	OAD DIST. NO. 1 ILLINOIS	FED	ED. AID PROJECT			



DMM, SFB

JGG, MWV

2-11-20

DRAWN

DATE

CHECKED -

Municipal Consultants

Established 1911

REVISED -

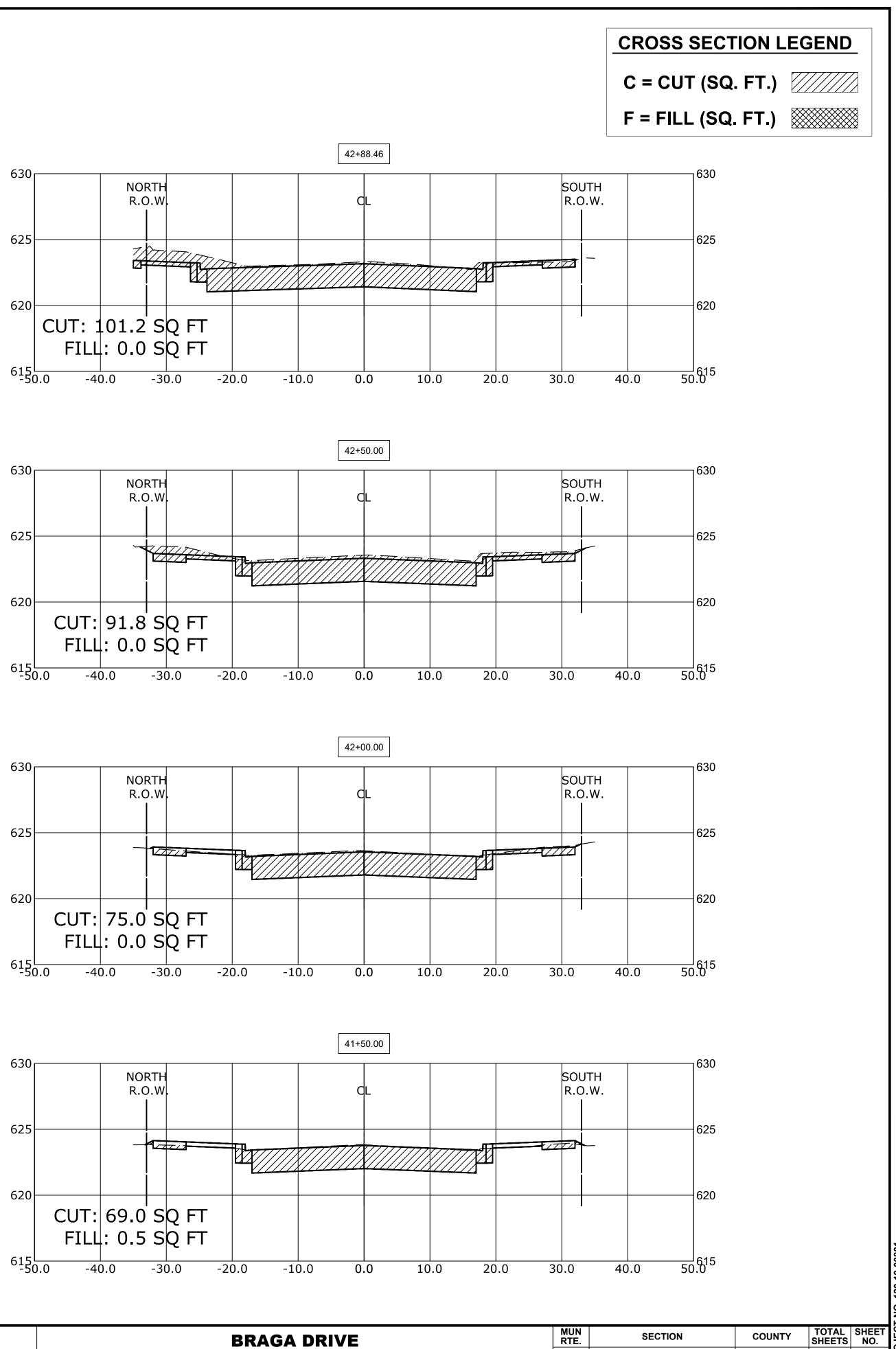
REVISED -

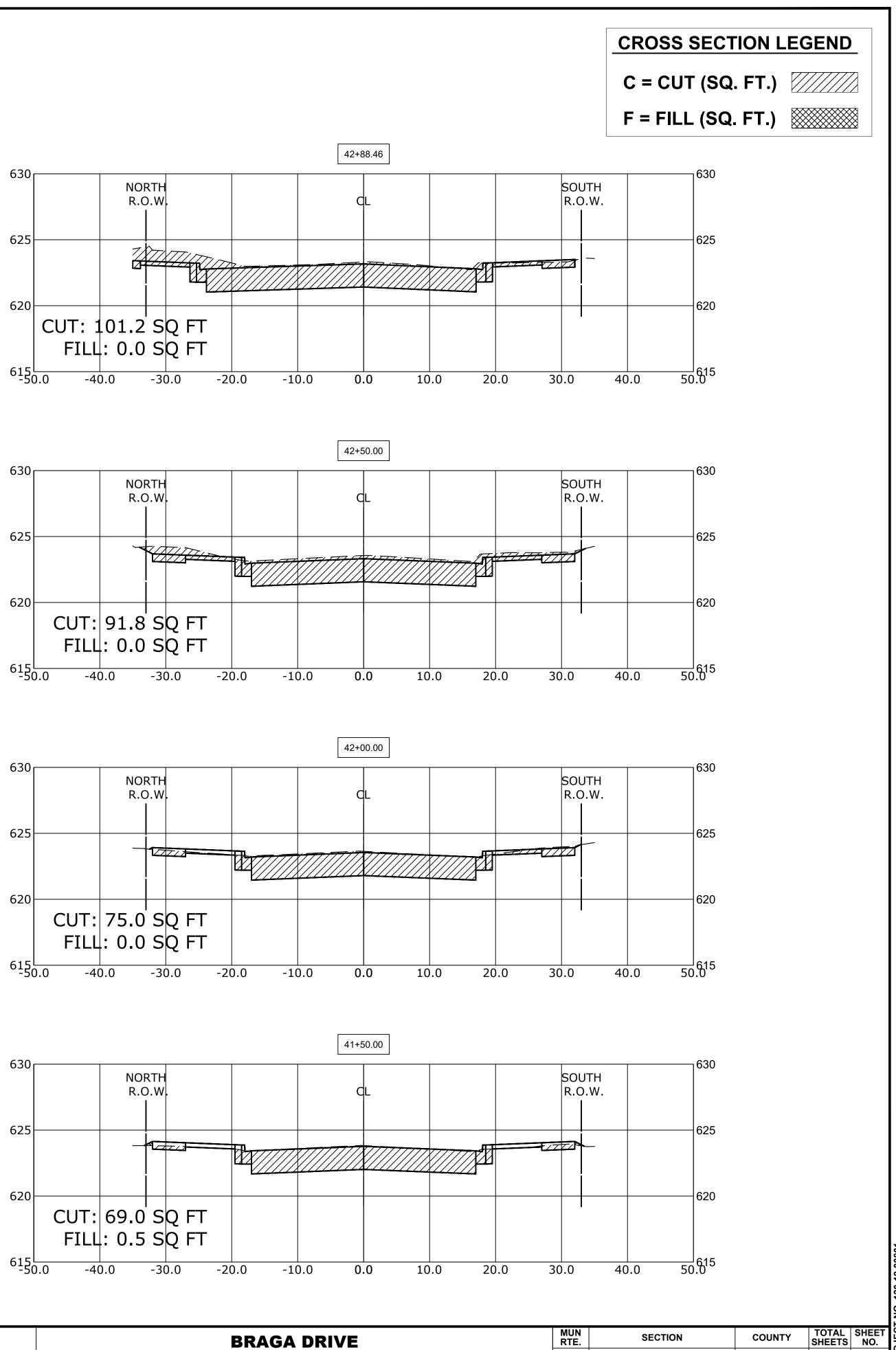
REVISED -

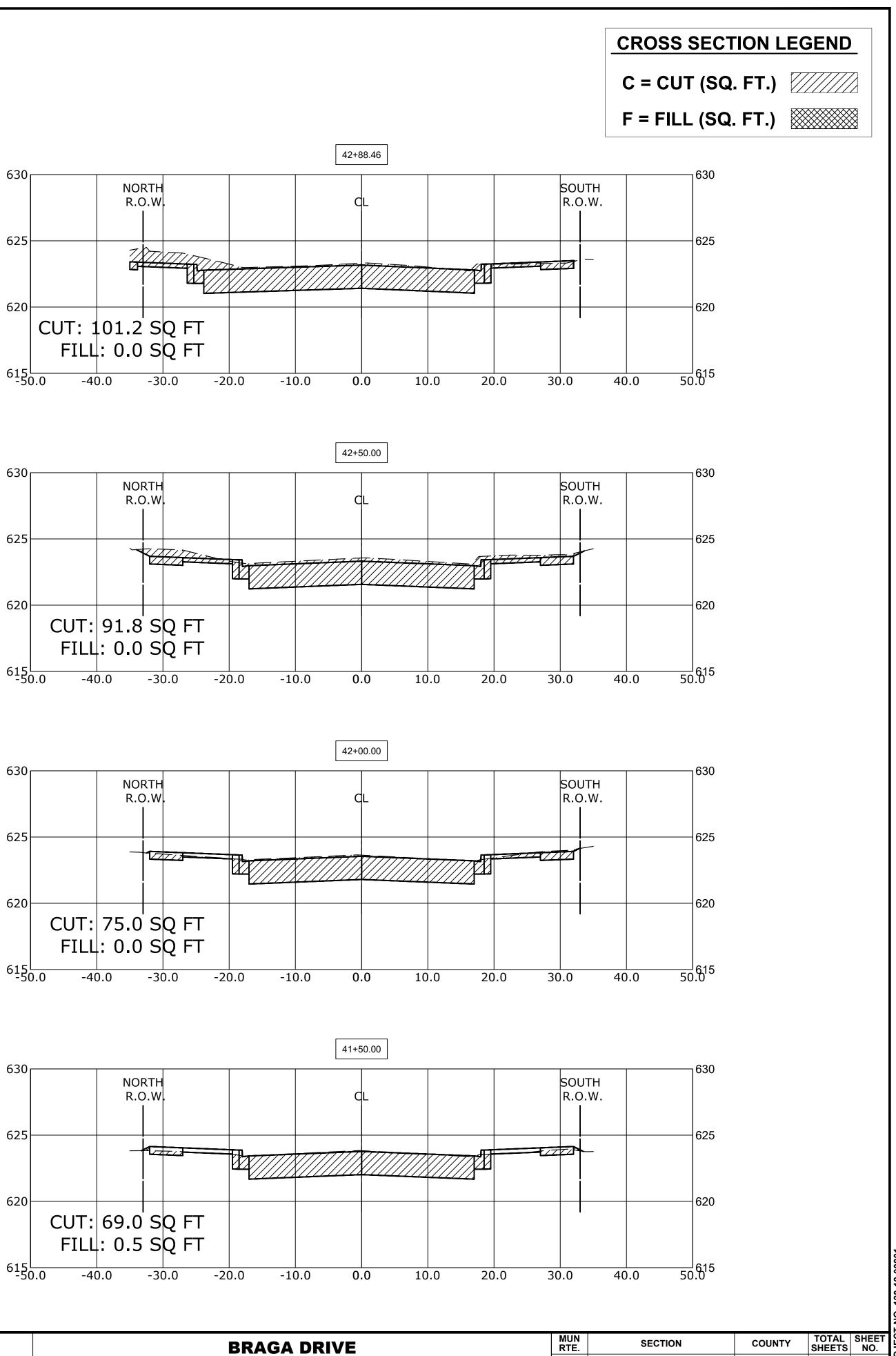
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

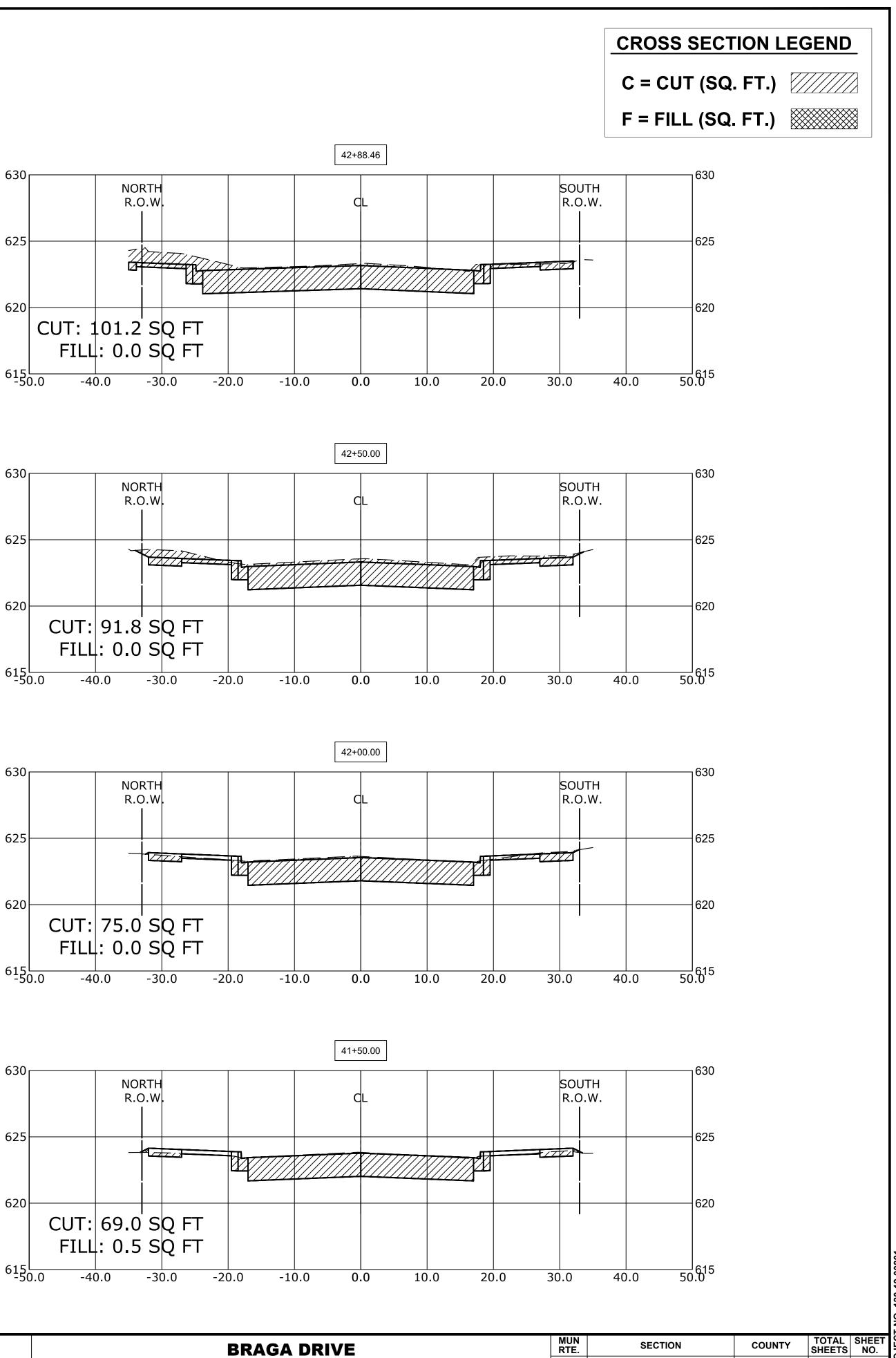
SCALEH:1"=10',V:1"=5' SHEET NO. 8 OF 9 SHEETS

CROSS SECT



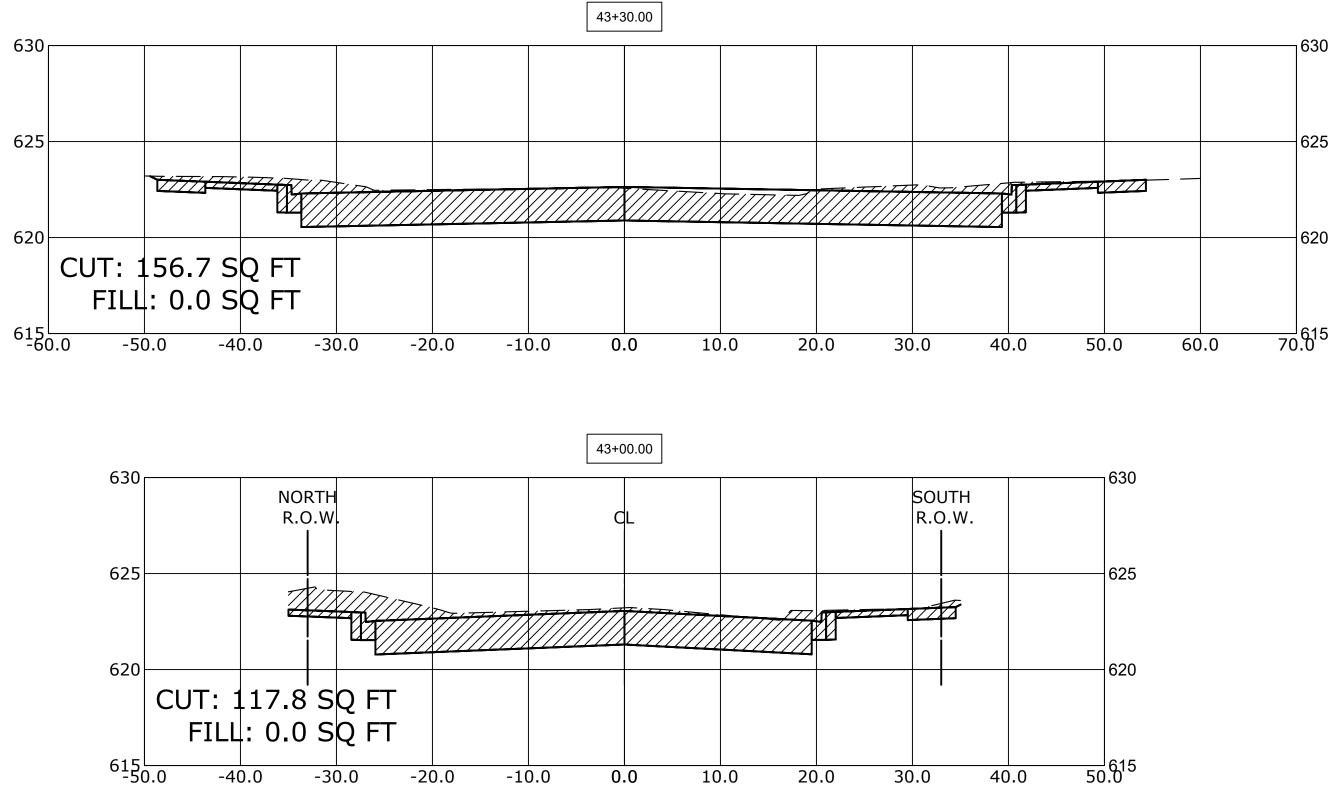


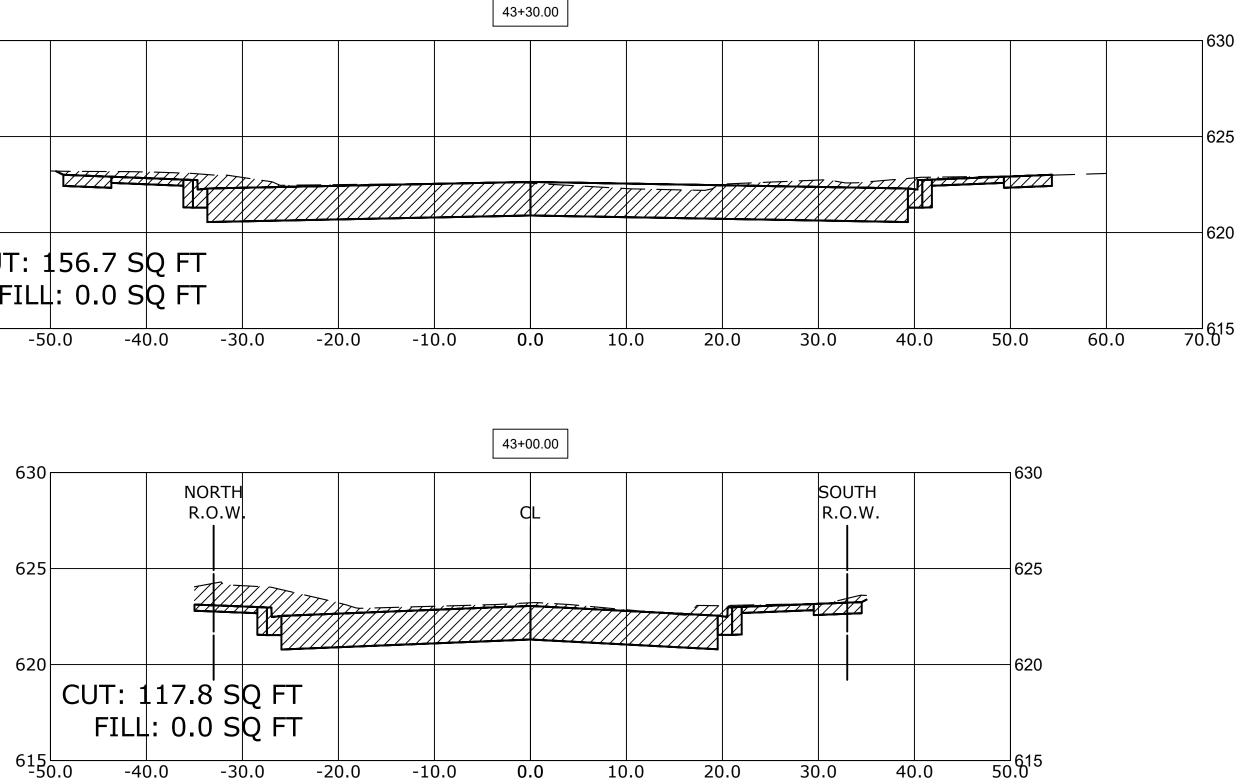




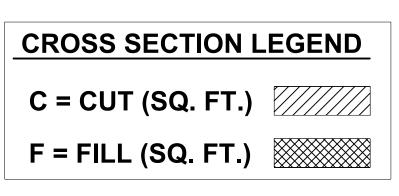
RIVE TIONS		MUN RTE.				COUNTY TOTAL SHEETS		SHEET NO.	
		3015	16-0008	СООК	102	101			
				300K NO. : -			CONTRACT NO). 61G35	
	STA. 39+85	TO STA. 42+8	FED. R	OAD DIST. NO. 1	ILLINOIS	FED.	AID PROJECT		

	9933 Roosevelt Road	DESIGNED -	MWV	REVISED -	
HANCOCK Civil Engineers	Westchester II A0154-9780	DRAWN -	DMM, SFB	REVISED -	
ENGINEERING Stabilished 1911	Phone: 708-865-0300	CHECKED -	JGG, MWV	REVISED -	
	www.ehancock.com	DATE -	2-11-20	REVISED -	





SCALEH:1"=10',V:1"=5' SHEET NO. 9 OF 9 SHEETS



								ŀ
R	RIVE FIONS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				3015 16-00080-01-PV COOK 102 1				
				00K NO. : -	CONTRACT N	O. 61G35		L
	STA. 43+00	TO STA. 43+30	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					