F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	1
		ILLINOIS	CONTRACT NO. 61K16	

01-16-2026 LETTING ITEM 002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

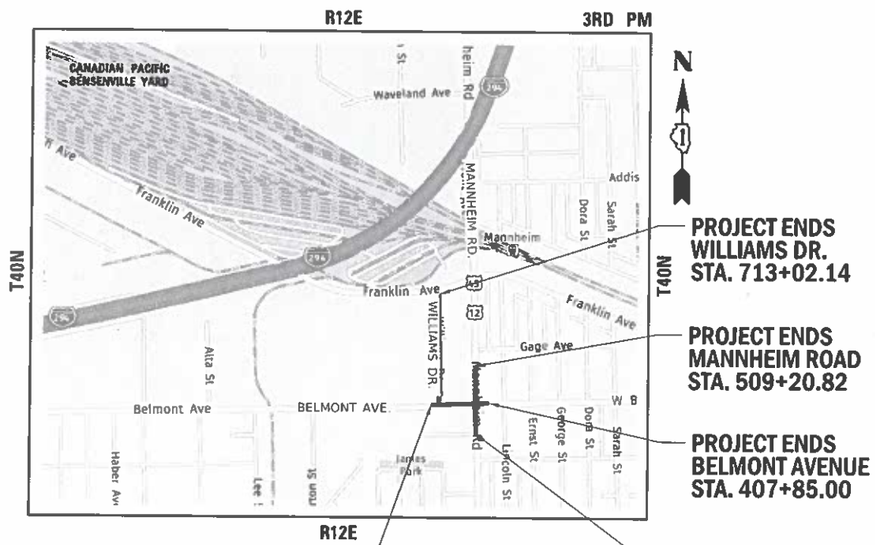
FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 3
FOR SIGNATURES AND SEALS, SEE SHEET NO. 2

DESIGN DESIGNATION 1,292(50) ARTERIAL
BELMONT AVENUE – MAJOR COLLECTOR
AADT = 3,600 (2022) / 12,513 (2050)
SPEED = 25 MPH (POSTED) / 30 MPH (DESIGN)

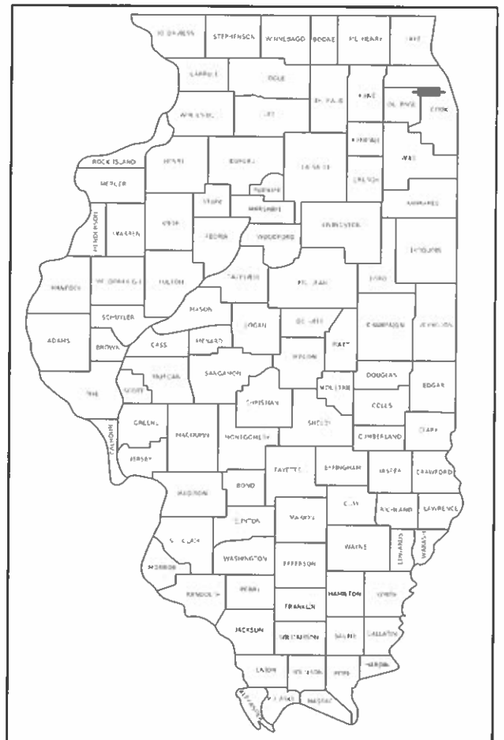
DESIGN DESIGNATION 4,365(50) ARTERIAL
MANNHEIM ROAD – OTHER PRINCIPAL ARTERIAL
AADT = 45,600 (2023) / 56,400 (2050)
SPEED = 40–35 MPH (POSTED) / 45 MPH (DESIGN)

FAU ROUTE 1373 (BELMONT AVENUE)
WILLIAMS DR TO US 12/45 (MANNHEIM ROAD)
RECONSTRUCTION AND WIDENING
SECTION 17–00083–02–PV
PROJECT UJHE(042)
VILLAGE OF FRANKLIN PARK
COOK COUNTY

C–91–267–24

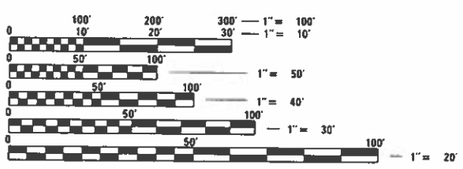


GROSS LENGTH = 2,666.03 FT. = 0.50 MILE
NET LENGTH = 2,666.03 FT. = 0.50 MILE



LOCATION OF SECTION INDICATED THUS: –

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Approved 09/26/25
Village of Franklin Park, Village Engineer

Passed October 30, 2025
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review November 3 2025
Regional Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

exp U.S. Services Inc.
Chicago, IL
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY
EXP U.S. SERVICES INC IS ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.006387-007

CONTRACT NO. 61K16

BRIAN L. UMBRIGHT
062-051701
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

exp U.S. SERVICES INC.
CIVIL

11/10/2025

BRIAN L. UMBRIGHT DATE
ILLINOIS REGISTRATION NO: 062-051701
EXP DATE: 11/30/2027
APPLY TO SHEETS: 1-39, 54-69, 114-157

SANDRA L. HOMOLA
062-058329
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

exp U.S. SERVICES INC.
CIVIL

11/10/2025

SANDRA L. HOMOLA DATE
ILLINOIS REGISTRATION NO: 062-058329
EXP DATE: 11/30/2027
APPLY TO SHEETS: 40-50, 70

STATE OF ILLINOIS
MUHAMMAD ARIF
062-056451
REGISTERED PROFESSIONAL ENGINEER

DELTA ENGINEERING GROUP, LLC
CIVIL

11/10/2025

MUHAMMAD ARIF DATE
ILLINOIS REGISTRATION NO: 062-056451
EXP DATE: 11/30/2027
APPLY TO SHEETS: 71-99

STATE OF ILLINOIS
HAMJA S. MASTER
062-040209
REGISTERED PROFESSIONAL ENGINEER

DELTA ENGINEERING GROUP, LLC
CIVIL

11/10/2025

HAMJA S. MASTER DATE
ILLINOIS REGISTRATION NO: 062-040209
EXP DATE: 11/30/2027
APPLY TO SHEETS: 100-110

MODEL: Default
FILE NAME: pw:\\exp-pw.bentley.com:exp-pw-01\Documents\Projects\CHI\00244802-A1\800 CADD Desfgn\804 Belmont-Mannheim\804.02 Civil\Sheet\BM22318-sht-SignaturesAndSeals.dgn

FILE NAME = BM22318-sht-SignaturesAndSeals.dgn	USER NAME = GARCIAAZ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNATURES AND SEALS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			1373	17-00083-02-PV	COOK	157 / 2
exp. exp U.S. Services Inc. Chicago IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

DISTRICT ONE DETAILS

DETAIL NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5m)
BD-02	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5m)
BD-05	DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)
BD-12	MANHOLE WITH RESTRICTOR PLATE
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.
BD-58	CITY OF CHICAGO DETECTABLE WARNINGS
BE-240	COMBINATION LIGHTING TRAFFIC SIGNAL SCHEMATIC
BE-305	LIGHT POLE FOUNDATION, METAL
BE-401	ALUMINUM LIGHT POLE 40'-1" (12.192 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-02	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (7 SHEETS)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
353001-05	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-11	PAVEMENT JOINTS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602402-03	PRECAST MANHOLE TYPE A 5' (1.52 M) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.83 M) DIAMETER
602501-06	PRECAST VALVE VAULT TYPE A 4' (1.22 m) DIAMETER
602506-03	PRECAST VALVE VAULT TYPE A 5' (1.52 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604071-07	FRAME AND GRATE TYPE 20
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606306-04	CORRUGATED PC CONCRETE MEDIANS
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
664001-02	CHAIN LINK FENCE
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EGDE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, DAY ONLY, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS- DAY ONLY
701427-05	LANE CLOSURE MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782001-01	CURB REFLECTORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS - POST AND BRACKET MOUNTED
886001-01	DETECTOR LOOP INSTALLATIONS
BLR28-1	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).

2. THE CONTRACTOR SHALL CALL IDOT ELECTRICAL FIELD OFFICE AT 708-524-2145 TO TRANSFER THE MAINTENANCE OF THE ELECTRICAL SYSTEMS AND LOCATE THE UNDERGROUND ELECTRICAL CABLE OVER AND MAINTAIN BY IDOT.

3. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF FRANKLIN PARK.

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

5. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC AND ADJOINING COMMERCIAL AREAS.

6. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.

7. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING TREES WITHIN THE RIGHT OF WAY. IF AND DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.

8. THE RESIDENT ENGINEER SHALL CONTACT MR. ABDULLA ALI (AREA TRAFFIC FIELD ENGINEER) AT ABDULLA.ALI@ILLINOIS.GOV, PRIOR TO INSTALLING ANY PERMANENT PAVEMENT MARKINGS.

9. THE PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

10. 10 FT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN.

11. ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE DONE TO SAID SERVICES NOT CONSIDERED TO BE CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

13. THE AGGREGATE GRADATION FOR THE LOWER 9 INCHES OF AGGREGATE SUBGRADE IMPROVEMENT 12" SHALL BE CS 1 or RR 1.

14. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDINACE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

15. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

16. ANY AGGREGATE SUBGRADE CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

17. ALL ELEVATIONS REFER TO THE NAVD88 DATUM.

18. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN OR EQUAL TO 12" AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE SHALL BE BACKFILLED IN ACCORDANCE WITH TABLE 2, CONDITION II OF THE SAFETY 4-21 POLICY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

19. THE CONTRACTOR SHALL CONTACT THE DISTRICT 1 TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

20. 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 STRIPPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.

21. A NICOR REPRESENTATIVE MUST BE PRESENT WHEN WORKING WITHIN 25' OF THE MOP (HIGH PRESSURE) PIPELINE. COORDINATE ALL NICOR FIELD ACTIVITIES WITH STAN JONES (STAJONES@SOUTHERNCO.COM) AT 630-388-2309, A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION NEAR NICOR FACILITIES. CALL J.U.L.I.E. AT 1-800-892-0123 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION FOR LOCATIONS OF NICOR'S FACILITIES WITHIN THE LIMITS OF THE PROJECT.

22. CONTRACTORS MUST FOLLOW THE CURRENT OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND ELECTRICAL POWER LINES. CALL COMED AT 1-800-334-7661 TO REQUEST "FACILITY PROTECTION". IT IS IMPERATIVE THAT UNDERGROUND COMED FACILITIES BE LOCATED PRIOR TO ANY EXCAVATION. CALL J.U.L.I.E. AT 1-800-892-0123 BEFORE THE START OF ANY EXCAVATION.

23. COMED IS BOUND BY ICC REGULATION TO PROVIDE LEAST COST SERVICES TO OUR CUSTOMERS. IF CONTRACTOR HAS CAPABILITY TO INSTALL FACILITIES THAT WILL NOT INTERFERE WITH EXISTING INSTALLATION (AS OPPOSED TO LARGE CRANES) THEY ARE OBLIGATED TO DO SO.

24. THE PRIMARY CONTACT FOR COMED FOR THIS PROJECT IS CHAD HOOVER AT COMED PUBLIC RELATION DEPT., 3 LINCOLN CENTER, SUITE 600 OAKBROOK TERRACE, IL 60181. TEL: 779-231-2640. EMAIL: CHAD.HOOVER@COMED.COM.

GENERAL DRAINAGE NOTES

1. SEE DRAINAGE DETAIL SHEETS FOR DRAINAGE STRUCTURE OFFSET AND RIM ELEVATION LOCATION.

2. QUANTITY OF TRENCH BACKFILL FOR STORM SEWER REMOVAL THAT IS PROVIDED IN SCHEDULE IS BASED ON LENGTH OF PIPE REMOVED. IF EXISTING STORM SEWER IS REMOVED AND REPLACED, TRENCH BACKFILL QUANTITY IS BASED ON PROPOSED STORM SEWER ONLY.

3. PROPOSED RIM AND INVERT ELEVATIONS ARE BASED ON EXISTING OR THEORETICAL GRADES, ACTUAL FINAL GRADES ARE SUBJECT TO NOMINAL VARIATIONS.

4. SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER, OR DRAINAGE STRUCTURES 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 STRUCTURES SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS/HER OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND ENSURE PROPER SURFACE RUNOFF.

5. ALL STORM SEWERS, PIPE CULVERTS, CATCH BASINS, MANHOLES, INLETS AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND AND SHALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTION.

6. THE CONTRACTOR SHALL VERIFY EXISTING OUTLET STRUCTURE LOCATIONS AND INVERTS PRIOR TO STARTING UPSTREAM STORM SEWER CONNECTION AND CONSTRUCTION.

7. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 606001-05. TOP OF PIPE UNDERDRAINS SHALL BE MINIMUM OF 6" BELOW THE AGGREGATE SUBGRADE LAYER. THE COST OF MAKING UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COSTS OF THE PIPE UNDERDRAINS.

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

COMMITMENTS

1. TREES THREE (3) INCHES IN DIAMETER OR GREATER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES 80% FEDERAL/20% LOCAL ROADWAY 0003 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN	TRAINEES 0042 URBAN	100% LOCAL EVP 0021 URBAN
20101700	SUPPLEMENTAL WATERING	UNIT	106	106				
20200100	EARTH EXCAVATION	CU YD	3,573	3,573				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	357	357				
20400800	FURNISHED EXCAVATION	CU YD	1,000	1,000				
20800150	TRENCH BACKFILL	CU YD	930	930				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,225	1,225				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	844	844				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	12	12				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	12	12				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	12	12				
25200110	SODDING, SALT TOLERANT	SQ YD	983	983				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	27	27				
28000400	PERIMETER EROSION BARRIER	FOOT	1,520	1,520				
28000510	INLET FILTERS	EACH	18	18				
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1,255	1,255				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	408	408				

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES 80% FEDERAL/20% LOCAL ROADWAY 0003 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN	TRAINEES 0042 URBAN	100% LOCAL EVP 0021 URBAN
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5,385	5,385				
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,625	1,625				
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	4,361	4,361				
35501328	HOT-MIX ASPHALT BASE COURSE, 11"	SQ YD	504	504				
35600720	HOT-MIX ASPHALT BASE COURSE WIDENING, 11"	SQ YD	37	37				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3,187	3,187				
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	549	549				
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	480	480				
42001300	PROTECTIVE COAT	SQ YD	6,194	6,194				
42300600	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 10 INCH	SQ YD	1,056	1,056				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	12,284	12,284				
44000100	PAVEMENT REMOVAL	SQ YD	2,905	2,905				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	584	584				
44000300	CURB REMOVAL	FOOT	244	244				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,576	1,576				
44000600	SIDEWALK REMOVAL	SQ FT	57	57				

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	103	103				
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	23	23				
	550A0110	STORM SEWERS, CLASS A, TYPE 1 21"	FOOT	73	73				
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	95	95				
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	35	35				
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	65	65				
	550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	26	26				
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	405	405				
*	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2	2				
	60108501	PIPE UNDERDRAINS, TYPE 3	FOOT	783	783				
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	5	5				
	60201310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	4	4				
	60205010	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	1	1				
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3				
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	1	1				

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL / 20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
	60237420	INLETS, TYPE A, TYPE 20 FRAME AND GRATE	EACH	7	7				
	60500040	REMOVING MANHOLES	EACH	3	3				
	60500050	REMOVING CATCH BASINS	EACH	2	2				
	60500060	REMOVING INLETS	EACH	7	7				
	60601105	CONCRETE CURB, TYPE M	FOOT	24	24				
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	717	717				
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	729	729				
	60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	39	39				
	60622305	CONCRETE MEDIAN, TYPE SM - 4.12	SQ FT	2,449	2,449				
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	38	38				
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2				
*	63200310	GUARDRAIL REMOVAL	FOOT	38	38				
*	66400305	CHAIN LINK FENCE, 6'	FOOT	608	608				
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	912	912				
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6				
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				

* SPECIALTY ITEM

MODEL: Default
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	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	40	40				
	67100100	MOBILIZATION	L SUM	1	1				
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	140	140				
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	836	836				
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	8,334	8,334				
	70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	494	494				
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	15,213	15,213				
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1,579	1,579				
	70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	509	509				
	70307160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE IV TAPE	FOOT	1,346	1,346				
	70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	204	204				
*	72000100	SIGN PANEL - TYPE 1	SQ FT	236	194	42			
*	72000200	SIGN PANEL - TYPE 2	SQ FT	28		28			
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	38	38				
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	13	13				

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3				
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	6	6				
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	921	921				
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	721	721				
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,382	1,382				
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,638	2,638				
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	268	268				
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	991	991				
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	232	232				
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	91	91				
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	22	22				
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	131	131				
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	917	917				
*	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2,223		2,223			
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	295			295		

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	423		423			
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	709		709			
*	81400100	HANDHOLE	EACH	6		6			
*	81400200	HEAVY-DUTY HANDHOLE	EACH	5		5			
*	81400300	DOUBLE HANDHOLE	EACH	6		6			
*	81603070	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	375			375		
*	81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1,175			1,175		
*	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	15			15		
*	83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	2			2		
*	83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH	8			8		
*	83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	10			10		
*	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	10			10		
*	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	3			3		
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	3			3		
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2			
*	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1			

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		2			
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	647		647			
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,237		1,237			
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,465		2,465			
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6,088		6,088			
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,996		1,996			
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,119		4,119			
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	341		341			
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,061		2,061			
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7		7			
*	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2			
*	87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1		1			
*	87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1		1			
*	87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1		1			
*	87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1		1			
*	87703040	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1		1			

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32		32			
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		8			
*	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20		20			
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37		37			
*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42		42			
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	17		17			
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9		9			
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8		8			
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2			
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8			
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19		19			
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	26		26			
*	88600100	DETECTOR LOOP, TYPE I	FOOT	1,035		1,035			
*	88700200	LIGHT DETECTOR	EACH	2					2
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2					2
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2		2			
*	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1		1			
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		6			
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,156		1,156			
*	X0327234	LIGHTING UNIT IDENTIFICATION DECAL	EACH	10			10		
*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1			
*	X1400341	REMOVAL OF LUMINARIE, SALVAGE	EACH	4			4		
*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1		1			
*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5		5			
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	10	10				
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	54	54				
	X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	797	797				
*	X5640177	FIRE HYDRANT WITH 6" VALVE AND VALVE BOX	EACH	2	2				
	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1				
	X6025604	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	1	1				

* SPECIALTY ITEM

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exp U.S. Services Inc. Chicago IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - AZ	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - PB	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

SUMMARY OF QUANTITIES
10

SCALE: N.T.S. | SHEET 10 OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	14
		CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
	X6050205	FILLING EXISTING STORM SEWERS	CU YD	7	7				
	X6060034	COMBINATION CONCRETE CURB AND GUTTER TRANSITION	FOOT	20	20				
	X6640104	FENCE REMOVAL	FOOT	1,171	1,171				
	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12	12				
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	100	100				
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	22	22				
*	X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	22	22				
*	X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6			6		
*	X8301042	MAST ARM, ALUMINUM, 12 FT.	EACH	5			5		
*	X8570233	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1			
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		2			
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	647		647			
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8		8			
*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16		16			
*	X8809005	LED SIGNAL FACE, LENS COVER	EACH	23		23			

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES				
					80% FEDERAL/20% LOCAL				100% LOCAL
					ROADWAY	TRAFFIC SIGNALS	LIGHTING	TRAINEES	EVP
					0003	0021	0021	0042	0021
					URBAN	URBAN	URBAN	URBAN	URBAN
*	X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	1		1			
*	X8900104	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	15			15		
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1			
	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	461	461				
	Z0076600	TRAINEES	HOUR	500				500	
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500	
	Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	9	9				

* SPECIALTY ITEM

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exp U.S. Services Inc. Chicago, IL BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY		DRAWN - AZ	REVISED -					CONTRACT NO. 61K16	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - PB	REVISED -		SCALE: N.T.S. SHEET 12 OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -						

EARTHWORK SCHEDULE

FROM STA	TO STA	EARTH EXCAVATION	TOPSOIL EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	AGGREGATE SUBGRADE IMPROVEMENT PLACEMENT	EMBANKMENT	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
WILLIAMS DRIVE								
700+50.00	701+00.00	169	41	0	0	3	144	141
701+00.00	701+22.17	44	10	0	0	3	38	34
701+22.17	701+50.00	27	11	0	0	4	23	18
701+50.00	702+00.00	7	8	0	0	2	6	4
702+00.00	702+50.00	13	0	0	0	0	11	11
702+50.00	703+00.00	6	7	0	0	3	6	3
703+00.00	703+50.00	0	14	0	0	6	0	-6
703+50.00	704+00.00	6	7	0	0	3	6	3
704+00.00	704+50.00	6	10	0	0	7	6	-1
704+50.00	705+00.00	0	21	0	0	14	0	-14
705+00.00	705+50.00	0	18	0	0	9	0	-9
705+50.00	706+00.00	14	6	0	0	2	12	10
706+00.00	706+50.00	14	7	0	0	2	12	9
706+50.00	707+00.00	0	15	0	0	6	0	-6
707+00.00	707+50.00	0	15	0	0	6	0	-6
707+50.00	708+00.00	0	13	0	0	4	0	-4
708+00.00	708+50.00	0	15	0	0	6	0	-6
708+50.00	709+00.00	0	16	0	0	6	0	-6
709+00.00	709+50.00	0	15	0	0	5	0	-5
709+50.00	710+00.00	0	15	0	0	5	0	-5
710+00.00	710+50.00	0	16	0	0	7	0	-7
710+50.00	711+00.00	0	16	0	0	7	0	-7
711+00.00	711+50.00	0	16	0	0	7	0	-7
711+50.00	712+00.00	0	14	0	0	7	0	-7
712+00.00	712+50.00	0	13	0	0	5	0	-5
712+50.00	713+00.00	0	17	0	0	4	0	-4
713+00.00	END	0	0	0	0	0	0	0
	SUBTOTAL	240	62	0	0	11	204	193
BELMONT AVENUE								
402+31.25	402+50.00	52	13	0	0	2	44	42
402+50.00	403+00.00	168	34	0	0	4	142	138
403+00.00	403+50.00	235	68	0	0	4	200	196
403+50.00	404+00.00	259	104	0	0	4	220	216
404+00.00	404+50.00	262	68	0	0	2	222	220
404+50.00	405+00.00	275	72	0	0	2	233	231
405+00.00	405+50.00	291	78	0	0	2	247	245
405+50.00	406+00.00	300	78	79	78	1	255	254
406+00.00	406+50.00	301	114	171	169	2	256	253
406+50.00	406+90.00	256	101	148	147	2	218	216
406+90.00	END	0	0	0	0	0	0	0
	SUBTOTAL	2,397	729	398	394	26	2,038	2,011
MANNHEIM ROAD								
503+01.00	503+50.00	8	15	0	0	3	7	4
503+50.00	504+00.00	4	8	0	0	2	4	2
504+00.00	504+50.00	0	0	0	0	0	0	0
504+50.00	505+00.00	41	27	0	0	1	35	34

EARTHWORK SCHEDULE (CONTINUED)

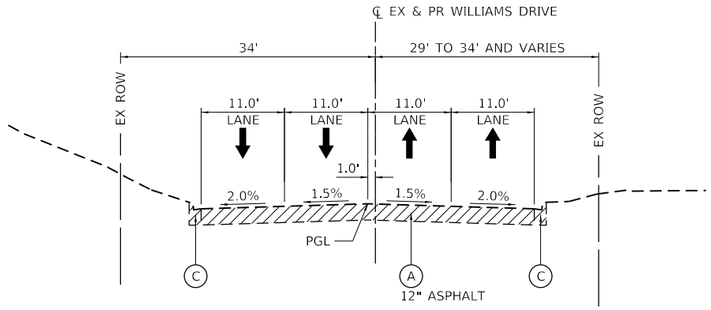
FROM STA	TO STA	EARTH EXCAVATION	TOPSOIL EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	AGGREGATE SUBGRADE IMPROVEMENT PLACEMENT	EMBANKMENT	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
MANNHEIM ROAD (CONTINUED)								
505+00.00	505+50.00	64	45	0	0	2	54	52
505+50.00	506+00.00	44	37	0	0	2	37	35
506+00.00	506+50.00	53	38	0	0	2	45	43
506+50.00	507+00.00	66	19	0	0	1	56	55
507+00.00	507+50.00	60	16	0	0	0	51	51
507+50.00	508+00.00	42	27	0	0	1	35	34
508+00.00	508+50.00	25	18	0	0	3	21	18
508+50.00	509+00.00	15	13	0	0	3	13	9
509+00.00	509+20.82	4	3	0	0	1	3	2
509+20.82	END	0	0	0	0	0	0	0
	SUBTOTAL	424	267	0	0	20	360	340
	TOTALS	3,061	1,058	398	394	57	2,602	2,545

EARTH EXCAVATION = 3,061 CU YD

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL = TOPSOIL EXCAV + UNSUITABLE
= 1,058 398
= 1,456
20% CONTINGENCY = 291
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL TOTAL = 1,748 CU YD

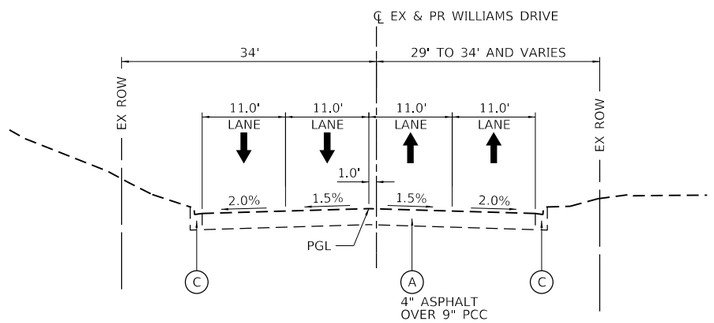
EXCAV TO BE USED IN EMBANKMENT (15% SHRINKAGE) = 2,602
EMBANKMENT 57
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) = SUITABLE - EMBANKMENT NEED
= 2,545 CU YD

AGGREGATE SUBGRADE IMPROVEMENT PLACEMENT = 394
10% CONTINGENCY = 39
AGGREGATE SUBGRADE IMPROVEMENT PLACEMENT TOTAL = 433 CU YD



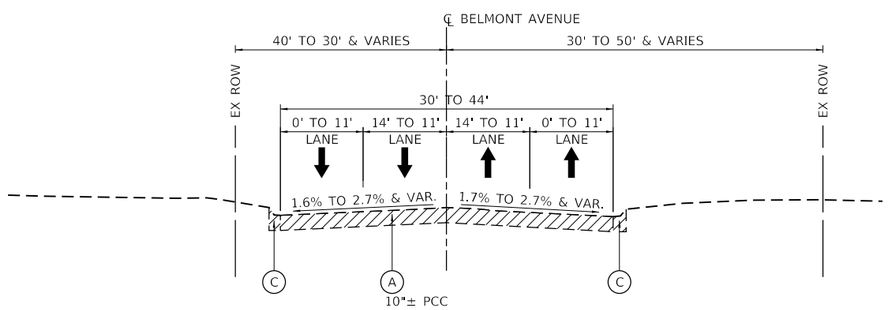
EXISTING WILLIAMS DRIVE

STA. 700+00 TO STA. 701+22.17



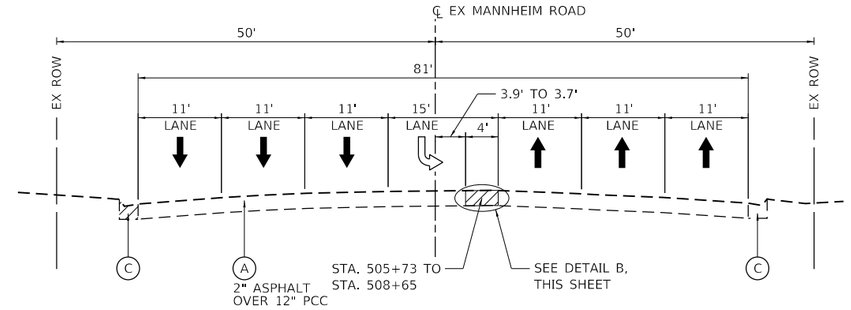
EXISTING WILLIAMS DRIVE

STA. 701+22.17 TO STA. 712+40



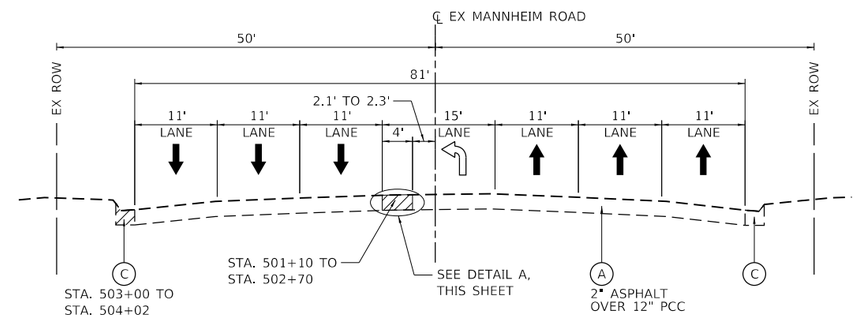
EXISTING BELMONT AVENUE

STA. 402+31.25 TO STA. 406+83



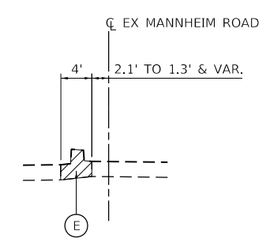
EXISTING MANNHEIM ROAD

STA. 504+46 TO STA. 509+21



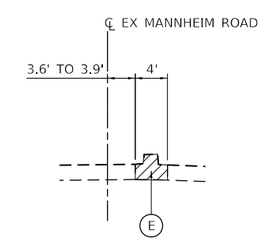
EXISTING MANNHEIM ROAD

STA. 501+10 TO STA. 504+02



DETAIL A

STA. 502+70 TO STA. 503+67



DETAIL B

STA. 504+79 TO STA. 505+73

* SEE PLANS FOR EXTENT OF IMPROVEMENT

EXISTING LEGEND

REMOVAL

- (A) EXISTING PAVEMENT
- (B) EXISTING AGGREGATE SHOULDER
- (C) EXISTING CONCRETE CURB AND GUTTER
- (D) EXISTING CONCRETE SIDEWALK
- (E) EXISTING CONCRETE MEDIAN

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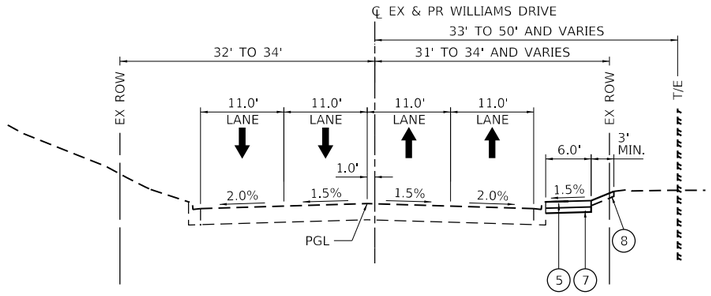
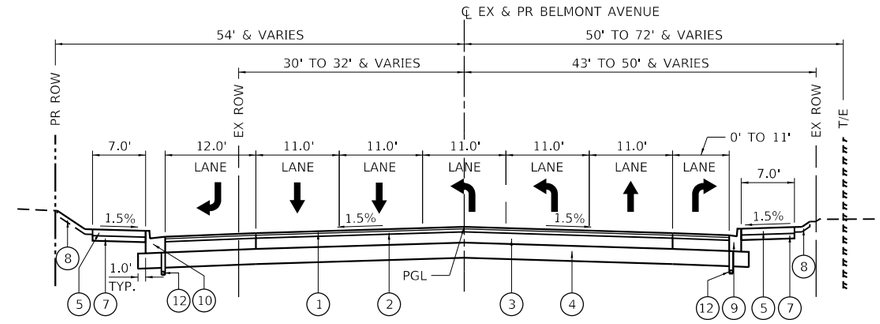
		DRAWN - AG	REVISED -			1373	17-00083-02-PV	COOK	157 / 18
exp. exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 20.0000 ' / in.	CHECKED - PB	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: N.T.S. / SHEET OF SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	



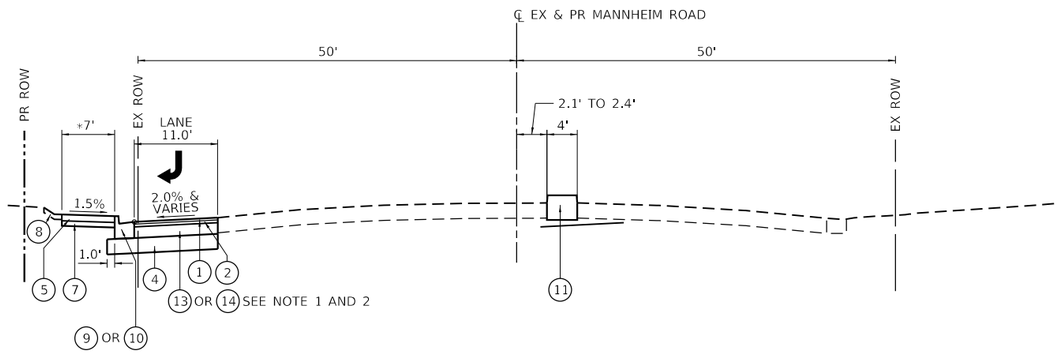
PROPOSED WILLIAMS DRIVE

STA. 700+66 TO STA. 712+40



PROPOSED BELMONT AVENUE

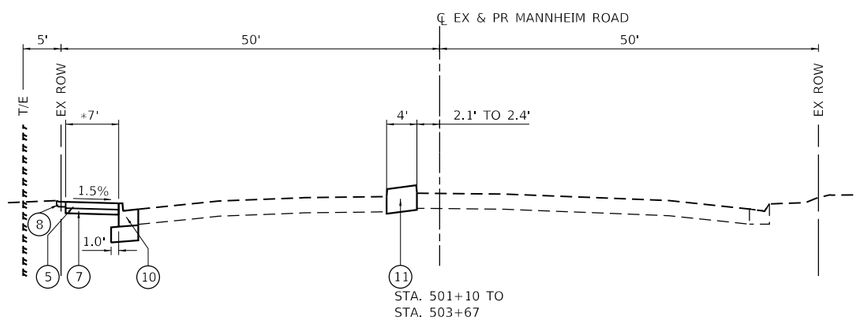
STA. 403+21 TO STA. 406+83



PROPOSED MANNHEIM ROAD

STA. 504+83 TO STA. 509+21

*PROPOSED SIDEWALK IS FROM STA. 504+83 TO STA. 505+92



PROPOSED MANNHEIM ROAD

STA. 501+10 TO STA. 503+86

*PROPOSED SIDEWALK, CURB AND GUTTER IS FROM STA. 503+00 TO STA. 503+86

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ NODES	QUALITY MANAGEMENT PROGRAM (QMP)
COMPOSITE PAVEMENT - BELMONT AVE / WILLIAMS DRIVE		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80 1-3/4"	3.5% @ 80 GYR.	LR1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 2-1/4"	4% @ 90 GYR.	LR1030-2
PAVEMENT WIDENING - MANNHEIM ROAD (WIDENING GREATER THAN 6')		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80 1-3/4"	3.5% @ 80 GYR.	LR1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2-1/4"	4% @ 90 GYR.	LR1030-2
HOT-MIX ASPHALT BASE COURSE, 11" (HMA BINDER IL-19.0)	4% @ 90 GYR.	LR1030-2
PAVEMENT WIDENING - MANNHEIM ROAD (WIDENING OF 6' OR LESS)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80 1-3/4"	3.5% @ 80 GYR.	LR1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2-1/4"	4% @ 90 GYR.	LR1030-2
HOT-MIX ASPHALT BASE COURSE WIDENING, 11" (HMA BINDER IL-19.0)	4% @ 90 GYR.	LR1030-2
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) PER LR1030-2		

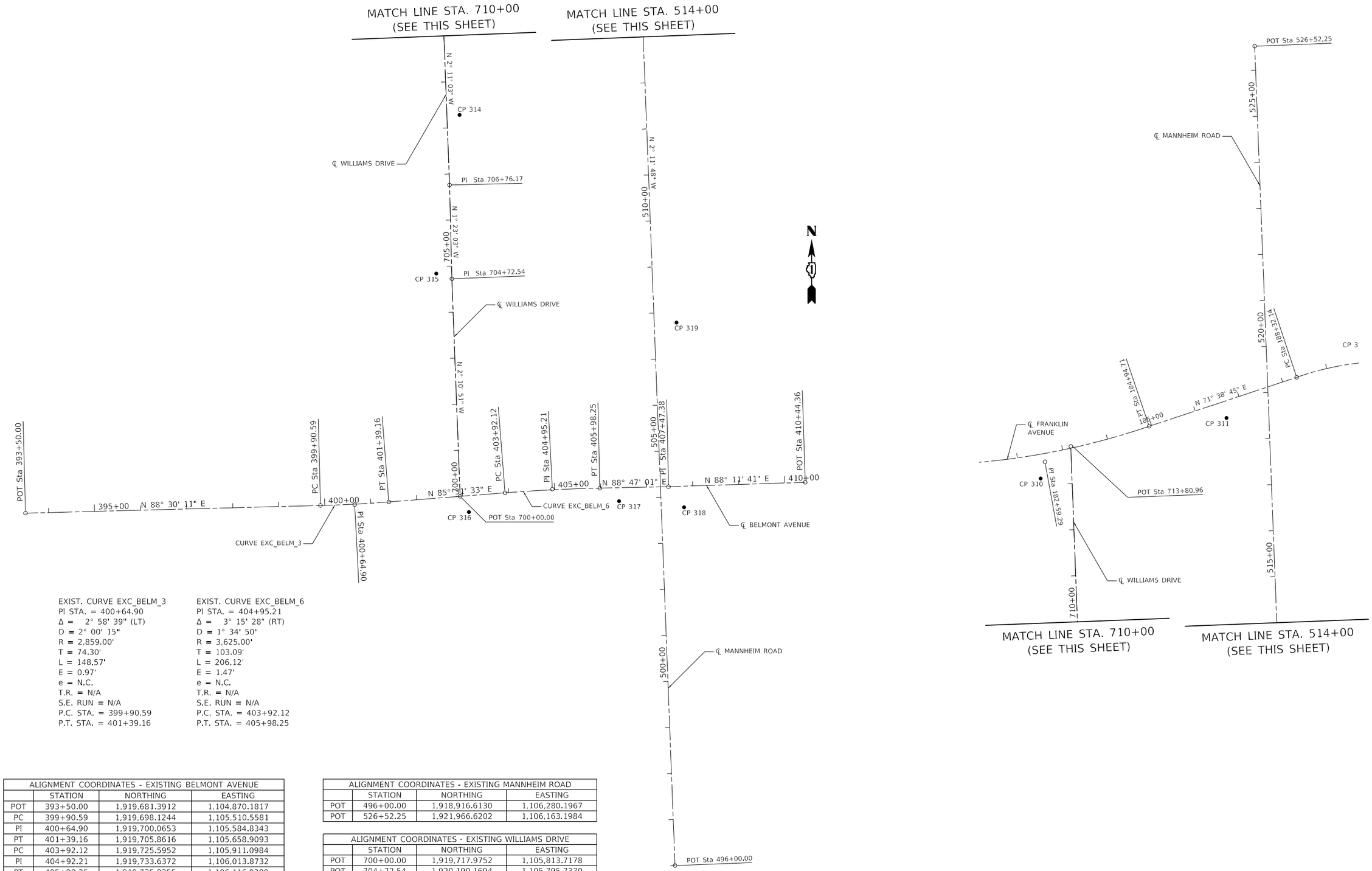
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG-64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTE

1. WIDENING OF 6' OR LESS, ALONG MANNHEIM ROAD SHALL BE PAID AS HMA BASE COURSE WIDENING, 11".
2. WIDENING GREATER THAN 6' SHALL BE PAID AS HMA BASE COURSE, 11".

PROPOSED LEGEND

1. POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1-3/4"
2. POLYMERIZED HMA BINDER COURSE, IL-19.0, N90, 2-1/4"
3. PORTLAND CEMENT CONCRETE BASE COURSE, 9"
4. AGGREGATE SUBGRADE IMPROVEMENT, 12"
5. PCC SIDEWALK, 5"
6. PCC DRIVEWAY, 10"
7. SUBBASE GRANULAR MATERIAL, TYPE B 4"
8. SODDING, SALT TOLERANT
9. COMB. CONC. C&G TYPE B-6.12
10. COMB. CONC. C&G TYPE B-6.24
11. CONCRETE MEDIAN, TYPE SM-4.12
12. PIPE UNDERDRAINS, TYPE 3
13. HMA BASE COURSE WIDENING, 11"
14. HMA BASE COURSE, 11"



EXIST. CURVE EXC_BELM_3
PI STA. = 400+64.90
Δ = 2° 58' 39" (LT)
D = 2° 00' 15"
R = 2,859.00'
T = 74.30'
L = 148.57'
E = 0.97'
e = N.C.
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 399+90.59
P.T. STA. = 401+39.16

EXIST. CURVE EXC_BELM_6
PI STA. = 404+95.21
Δ = 3° 15' 28" (RT)
D = 1° 34' 50"
R = 3,625.00'
T = 103.09'
L = 206.12'
E = 1.47'
e = N.C.
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 403+92.12
P.T. STA. = 405+98.25

ALIGNMENT COORDINATES - EXISTING BELMONT AVENUE

	STATION	NORTHING	EASTING
POT	393+50.00	1,919,681.3912	1,104,870.1817
PC	399+90.59	1,919,698.1244	1,105,510.5581
PI	400+64.90	1,919,700.0653	1,105,584.8343
PT	401+39.16	1,919,705.8616	1,105,658.9093
PC	403+92.12	1,919,725.5952	1,105,911.0984
PI	404+92.21	1,919,733.6372	1,106,013.8732
PT	405+98.25	1,919,735.8255	1,106,116.9389
POT	407+47.38	1,919,738.9912	1,106,266.0409
POT	410+44.36	1,919,748.3466	1,106,562.8685

ALIGNMENT COORDINATES - EXISTING MANNHEIM ROAD

	STATION	NORTHING	EASTING
POT	496+00.00	1,918,916.6130	1,106,280.1967
POT	526+52.25	1,921,966.6202	1,106,163.1984

ALIGNMENT COORDINATES - EXISTING WILLIAMS DRIVE

	STATION	NORTHING	EASTING
POT	700+00.00	1,919,717.9752	1,105,813.7178
POT	704+72.54	1,920,190.1694	1,105,795.7370
POT	706+76.17	1,920,393.7419	1,105,790.8176
POT	713+80.96	1,921,098.0255	1,105,763.9563

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exp. exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY		DRAWN - AG	REVISED -	
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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

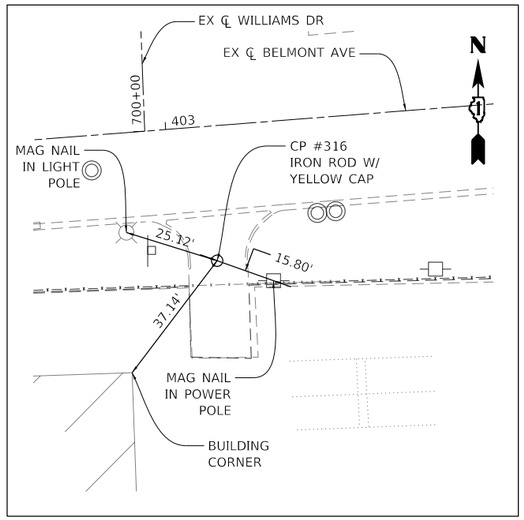
ALIGNMENT, TIES AND BENCHMARKS
IV

SCALE: 1"=100' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	20

CONTRACT NO. 61K16

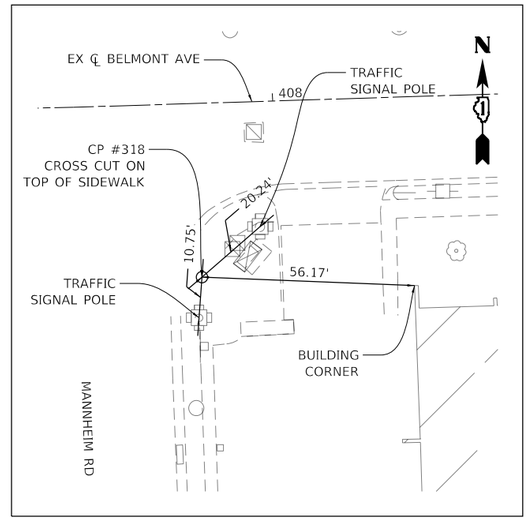
ILLINOIS | FED. AID PROJECT



CONTROL POINT #316

SET IRON ROD WITH YELLOW CAP
(NO ID)

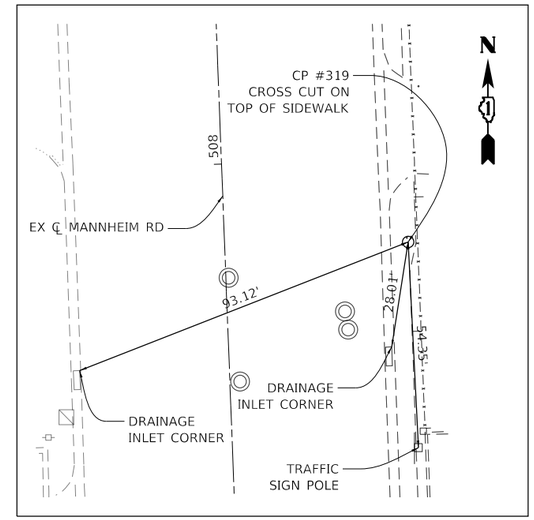
STA. 403+10.86
OFFSET 35.58' RT
N 1,919,683.7874
E 1,105,832.8606
ELEV. 645.70



CONTROL POINT #318

CROSS CUT ON TOP OF SIDEWALK
(NO ID)

STA. 407+79.88
OFFSET 45.87' RT
N 1,919,694.1654
E 1,106,299.9721
STA. 645.12



CONTROL POINT #319

CROSS CUT ON TOP OF SIDEWALK
(NO ID)

STA. 507+77.55
OFFSET 48.44' RT
N 1,920,095.1550
E 1,106,283.4624
ELEV. 645.45

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exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY		DRAWN - AG	REVISED -			1373	17-00083-02-PV	COOK	157 / 21
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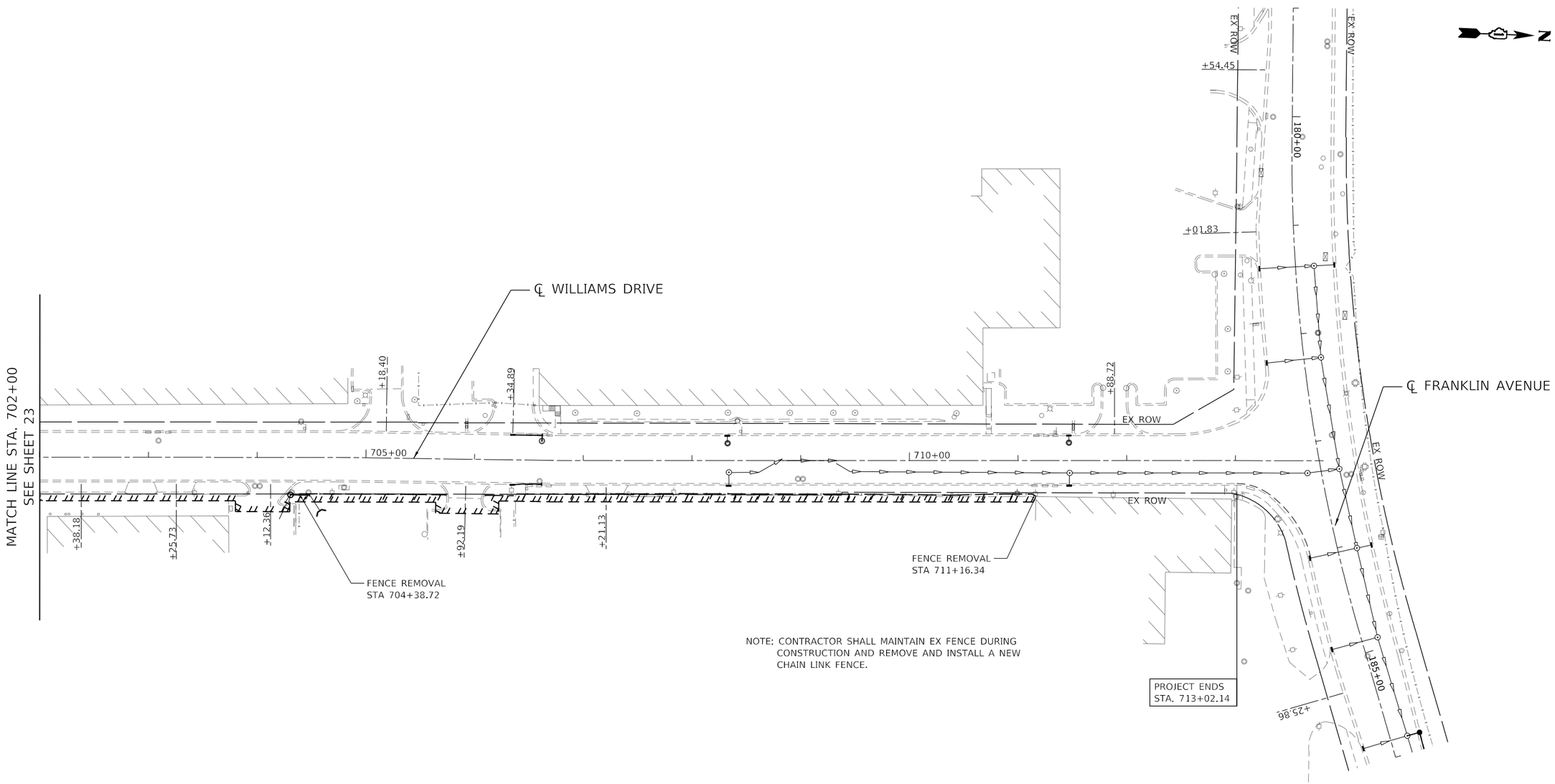

NOTE: CONTRACTOR SHALL MAINTAIN EX FENCE DURING CONSTRUCTION AND REMOVE AND INSTALL A NEW CHAIN LINK FENCE.

REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY AND PARKING LOT PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVAL
- STORM SEWER TO BE REMOVED
- CONCRETE MEDIAN REMOVAL
- A ELECTRICAL MANHOLE TO BE RESET BY COMED
- R REMOVE DRAINAGE STRUCTURE

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	PLOT SCALE = 100.0000 ' / in.	CHECKED - PB	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

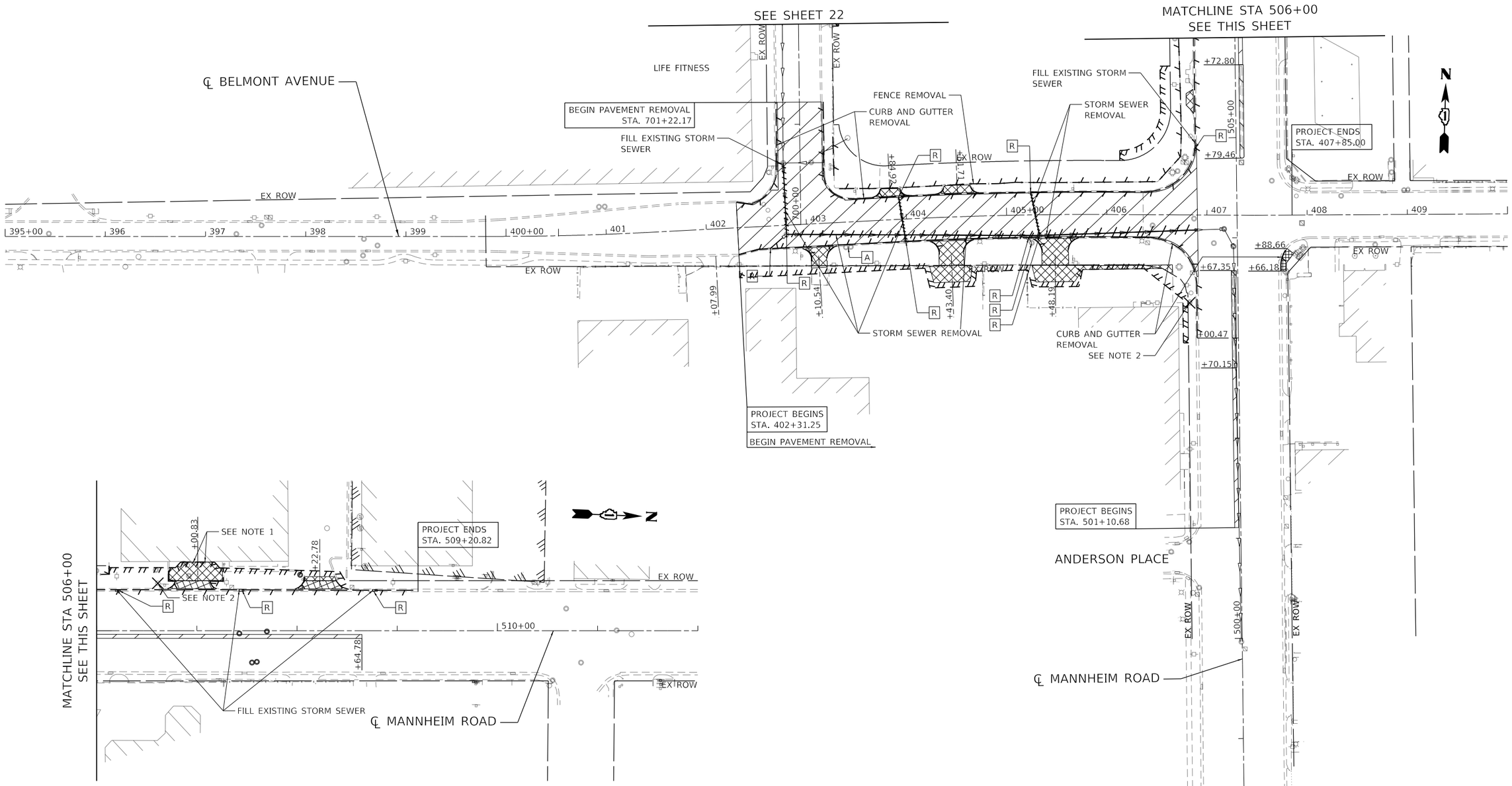
EXISTING CONDITIONS AND REMOVAL PLAN
WILLIAMS DRIVE

SCALE: 1"=50' | SHEET OF SHEETS | STA. 497+90 TO STA. 510+65

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	22

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



NOTES:

1. CONTRACTOR SHALL REMOVE AND REINSTALL POLES EMBEDDED IN DRIVEWAY PAVEMENT WITHIN AREA OF REMOVAL ON PLANS. COST OF REMOVAL AND REINSTALLATION IS INCIDENTAL TO CONTRACT.
2. FIRE HYDRANT REMOVAL. SEE SHEET 54.

REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY AND PARKING LOT PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVAL
- STORM SEWER TO BE REMOVED
- CONCRETE MEDIAN REMOVAL
- A ELECTRICAL MANHOLE TO BE RESET BY COMED
- R REMOVE DRAINAGE STRUCTURE

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

EXISTING CONDITIONS AND REMOVAL PLAN
BELMONT AVENUE

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

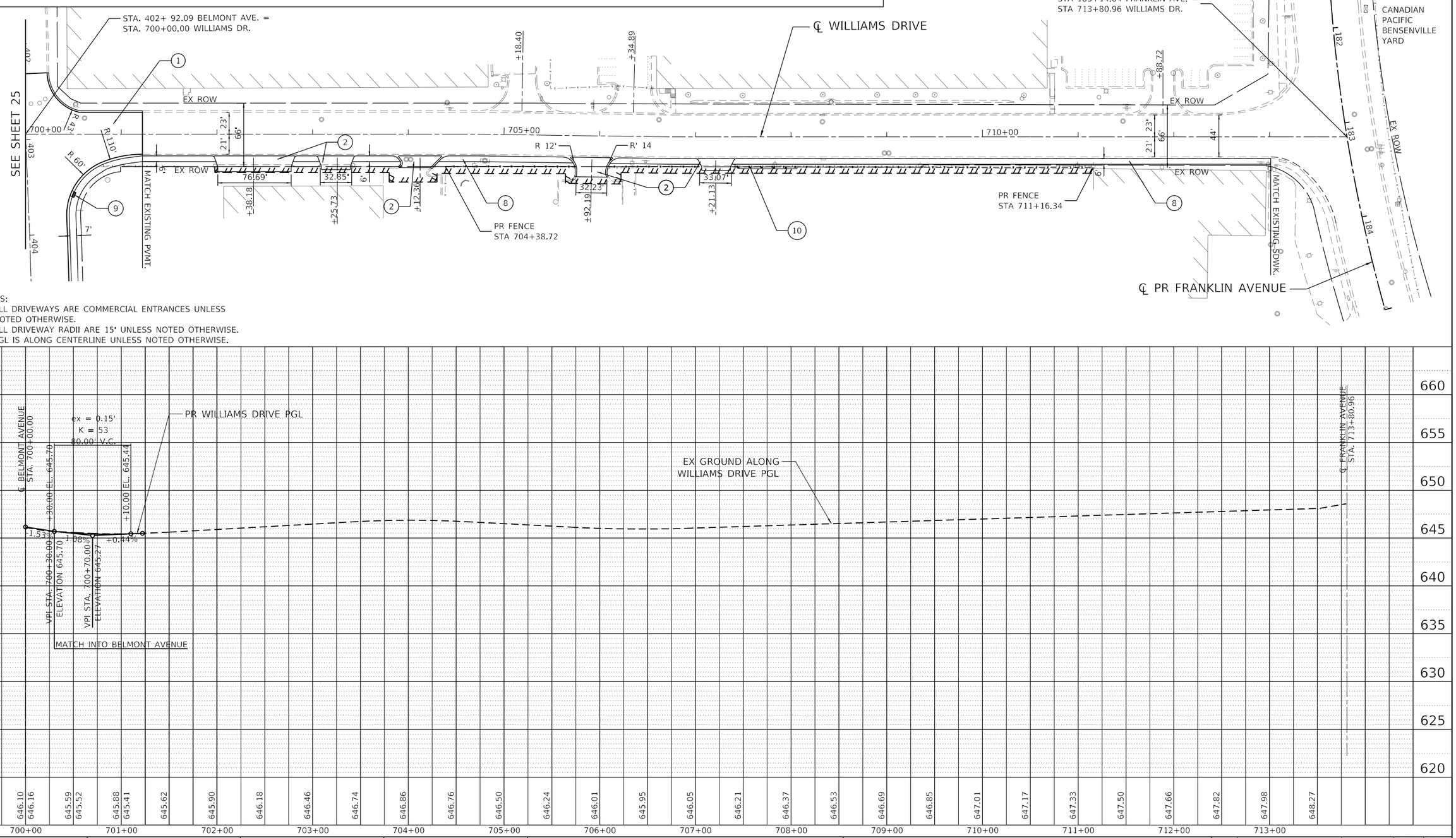
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	23

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT

PROPOSED LEGEND

1. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   PCC BASE CSE 9"
   AGG SUBGRADE IMPROVEMENT, 12"
2. PCC DRIVEWAY, 10"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
3. COMB. CONC. C&G TYPE B-6.24
4. COMB. CONC. C&G TYPE B-6.12
5. POLY. HMA SURF CSE, SMA, 9.5 MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
6. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE WIDENING, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
7. CONC. MEDIAN, TYPE SM-4.12
8. PCC SIDEWALK, 5"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
9. DETECTABLE WARNINGS (SPECIAL)
10. GUARDRAIL, TYPE A, 6 FT. POSTS
11. CONC. CURB, TYPE M-2.12
12. CONC. CURB TRANSITION
13. COMB. CONC. C&G, TYPE M-2.12



NOTES:
1. ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES UNLESS NOTED OTHERWISE.
2. ALL DRIVEWAY RADII ARE 15' UNLESS NOTED OTHERWISE.
3. PGL IS ALONG CENTERLINE UNLESS NOTED OTHERWISE.

FILE NAME = BM22318-sht-plnprf-08.dgn	USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
		DRAWN - AG	REVISED -
exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 100.0000 ' / in.	CHECKED - KA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN & PROFILE
WILLIAMS DRIVE

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. 702+00 TO STA. 712+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	24

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

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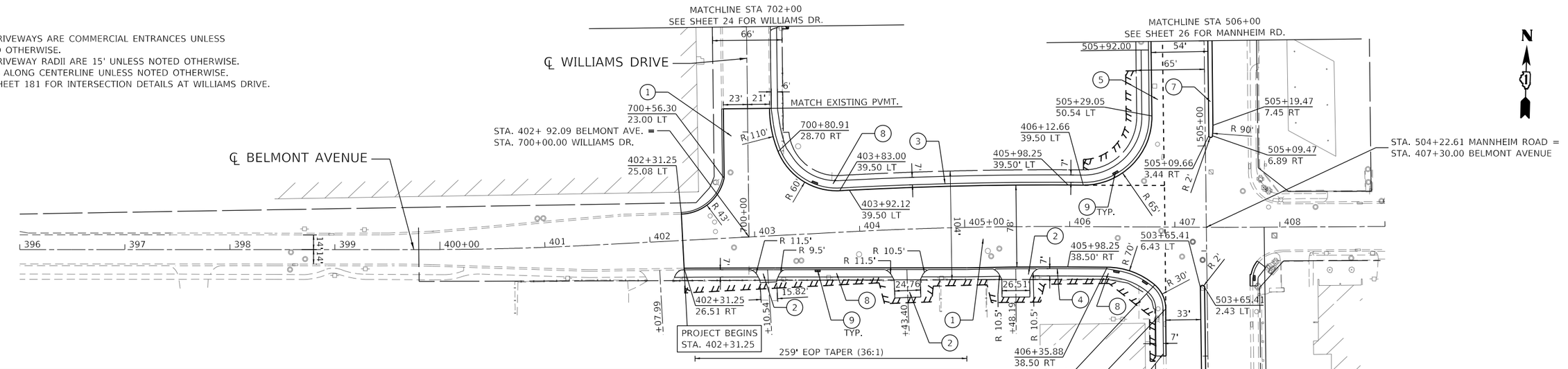
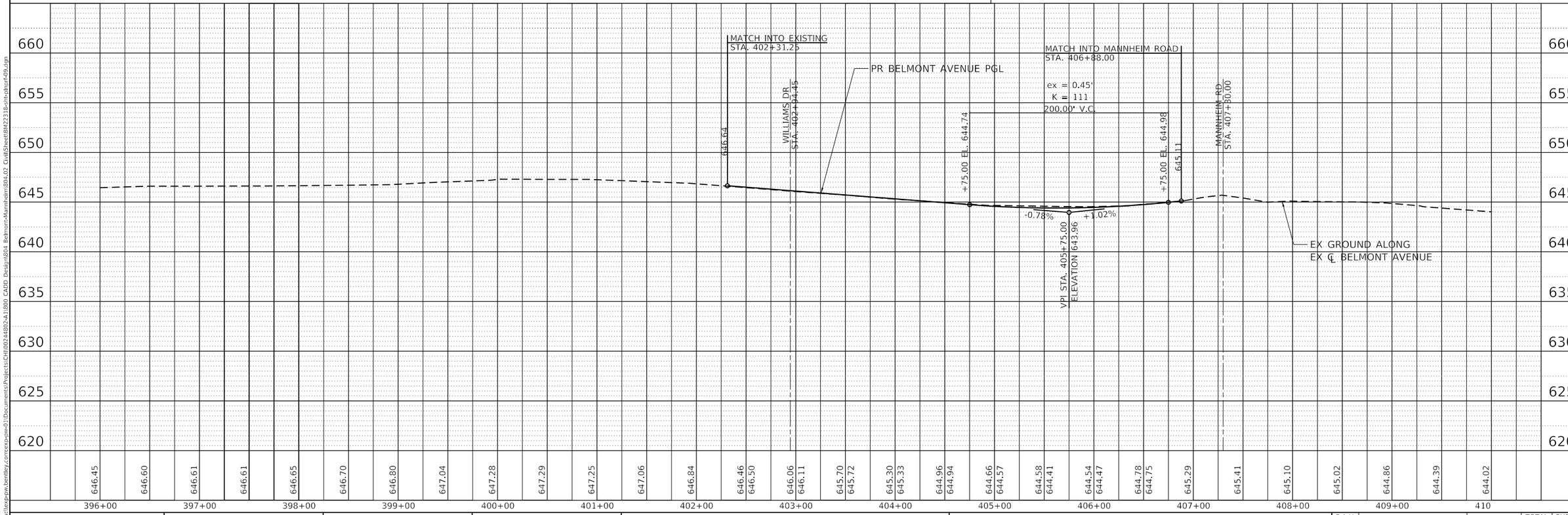
NOTES:
1. ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES UNLESS NOTED OTHERWISE.
2. ALL DRIVEWAY RADII ARE 15' UNLESS NOTED OTHERWISE.
3. PGL IS ALONG CENTERLINE UNLESS NOTED OTHERWISE.
4. SEE SHEET 181 FOR INTERSECTION DETAILS AT WILLIAMS DRIVE.



PROPOSED LEGEND

1. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   PCC BASE CSE 9"
   AGG SUBGRADE IMPROVEMENT, 12"
2. PCC DRIVEWAY, 10"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
3. COMB. CONC. C&G TYPE B-6.24
4. COMB. CONC. C&G TYPE B-6.12
5. POLY. HMA SURF CSE, SMA, 9.5 MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
6. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE WIDENING, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
7. CONC. MEDIAN, TYPE SM-4.12
8. PCC SIDEWALK, 5"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
9. DETECTABLE WARNINGS (SPECIAL)
10. GUARDRAIL, TYPE A, 6 FT. POSTS
11. CONC. CURB, TYPE M-2.12
12. CONC. CURB TRANSITION
13. COMB. CONC. C&G, TYPE M-2.12



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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN & PROFILE
BELMONT AVENUE

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. 397+00 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	25

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD / NOTE BOOK NO. / BY / DATE

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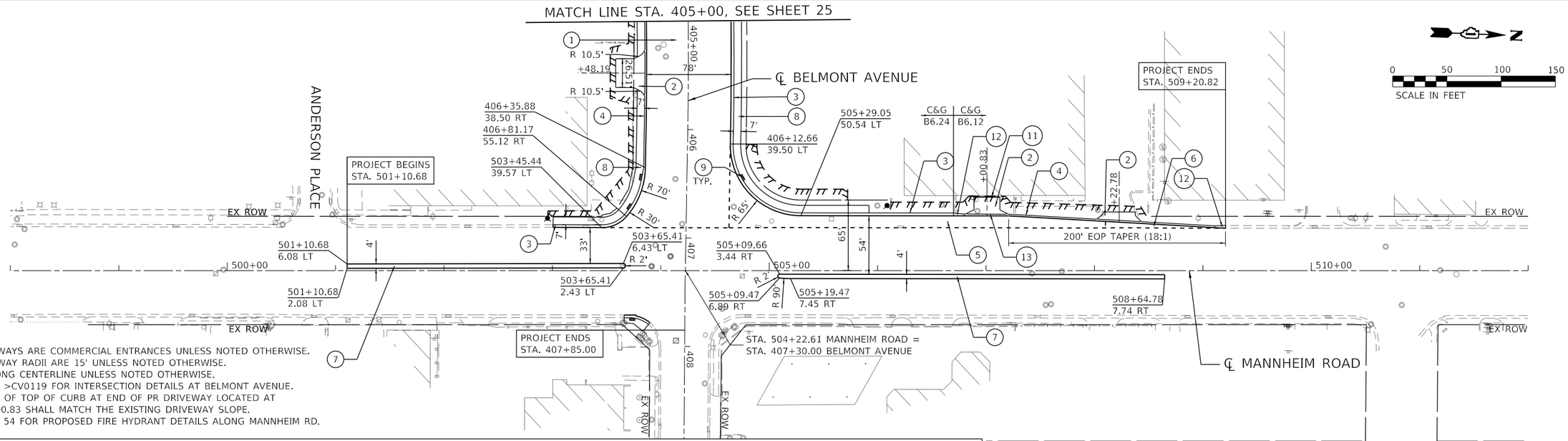
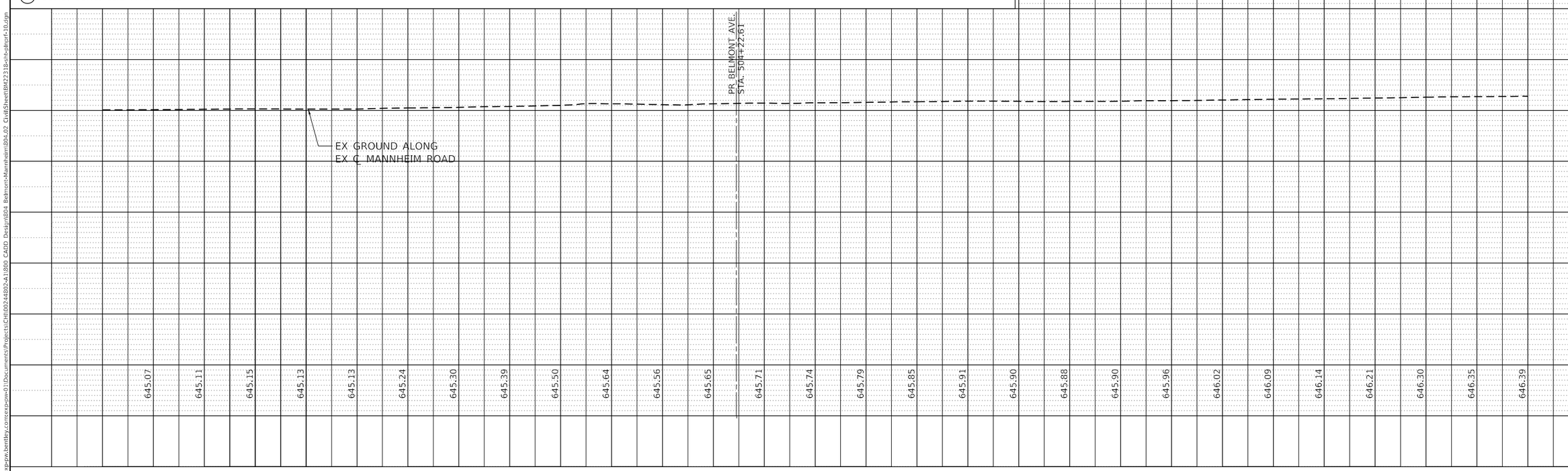


NOTES:
1. ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES UNLESS NOTED OTHERWISE.
2. ALL DRIVEWAY RADII ARE 15' UNLESS NOTED OTHERWISE.
3. PGL IS ALONG CENTERLINE UNLESS NOTED OTHERWISE.
4. SEE SHEET >CV0119 FOR INTERSECTION DETAILS AT BELMONT AVENUE.
5. THE SLOPE OF TOP OF CURB AT END OF PR DRIVEWAY LOCATED AT STA 507+00.83 SHALL MATCH THE EXISTING DRIVEWAY SLOPE.
6. SEE SHEET 54 FOR PROPOSED FIRE HYDRANT DETAILS ALONG MANNHEIM RD.

PROPOSED LEGEND

1. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   PCC BASE CSE 9"
   AGG SUBGRADE IMPROVEMENT, 12"
2. PCC DRIVEWAY, 10"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
3. COMB. CONC. C&G TYPE B-6.24
4. COMB. CONC. C&G TYPE B-6.12
5. POLY. HMA SURF CSE, SMA, 9.5 MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
6. POLY. HMA SURF CSE, SMA, 9.5, MIX "F", N80, 1-3/4"
   POLY. HMA BINDER CSE, IL-19.0, N90 2-1/4"
   HMA BASE COURSE WIDENING, 11"
   AGG SUBGRADE IMPROVEMENT, 12"
7. CONC. MEDIAN, TYPE SM-4.12
8. PCC SIDEWALK, 5"
   SUBBASE GRANULAR MATERIAL, TYPE B 4"
9. DETECTABLE WARNINGS (SPECIAL)
10. GUARDRAIL, TYPE A, 6 FT. POSTS
11. CONC. CURB, TYPE M-2.12
12. CONC. CURB TRANSITION
13. COMB. CONC. C&G, TYPE M-2.12



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PROFILE		BY	DATE
SURVEYED			
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GRADES CHECKED			
BKM. NOTED			
STRUCTURE NOTAT'NS CHKD			
NOTE BOOK NO.			

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exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 100.0000 ' / in.	CHECKED - KA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN & PROFILE
MANNHEIM ROAD

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. 498+00 TO STA. 512+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	26
		CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL TRAFFIC CONTROL SIGNS, DEVICES AND WORK ZONE PAVEMENT MARKINGS NECESSARY FOR THE MAINTENANCE OF TRAFFIC, AS SHOWN ON THE PLANS, SHALL BE IN PLACE BEFORE THE START OF ANY CONSTRUCTION WORK. STAGED CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL CONFLICTING SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED OR COVERED AND TEMPORARY TRAFFIC CONTROL MEASURES HAVE BEEN PLACED TO THE SATISFACTION OF THE ENGINEER.

2. THE FURNISHING, INSTALLATION AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTD), ILLINOIS SUPPLEMENT TO THE MUTCD, IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, CONTRACT SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

3. IDOT TRAFFIC CONTROL STANDARDS LISTED BY REFERENCE ON SHEET 3 SHALL BE USED AS GUIDES IN IMPLEMENTING THE TRAFFIC CONTROL, INCLUDING SIGN LOCATIONS, FOR THIS PROJECT.

4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES DURING CONSTRUCTION OPERATIONS.

5. DEPICTED TRAFFIC CONTROL IS A MINIMUM REQUIREMENT, AND OTHER WORK OR SIGNING MAY BE REQUIRED AS PER THE INSTRUCTION OF THE ENGINEER IN CHARGE.

6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF THEIR REPRESENTATIVES ON THE CONSTRUCTION SITE PRIOR TO THE START OF WORK.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGNS.

8. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, PLAN SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.

9. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF FRANKLIN PARK AND IDOT THREE (3) WORKING DAYS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

10. WORKER SIGNS (W21-1a(0)-48 AND W20-7(0)-48) SHALL BE TAKEN DOWN AND/OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

11. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF ADDITIONAL TEMPORARY PAVEMENT MARKING IS INCLUDED IN APPLICABLE PAY ITEM FOR TEMPORARY PAVEMENT MARKING OF THE WIDTH SPECIFIED.

12. DRUMS OR TYPE II BARRICADES AND VERTICAL PANELS SHALL BE PLACED AT 50-FOOT INTERVALS ALONG THE PROPOSED CONSTRUCTION WORK ZONE, AT 25' INTERVALS IN CURVES, AND AT 20' INTERVALS IN TAPER SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES THAT HAVE A MINIMUM REFLECTORIZED AREA OF 288 SQUARE INCHES AND ARE 2' IN WIDTH SHALL BE USED IN ALL STAGES OF CONSTRUCTION.

13. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION AND SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING EXISTING AND/OR PROPOSED DRAINAGE AND ROADWAY LIGHTING ARE MAINTAINED DURING THE DURATION OF THE PROJECT.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRIERS, LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.

16. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, THE POST SHALL HAVE A REFLECTIVE 6" X 12" OBJECT MARKER INSTALLED.

17. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION.

18. EXCAVATION AND PAVEMENT WIDENING ON BOTH SIDES OF THE PAVEMENT AT ANY ONE LOCATION AT THE SAME TIME WILL NOT BE PERMITTED PER ARTICLE 701.08 OF THE IDOT SPECS.

19. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION OPERATIONS.

20. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' THRU-LANE IN EACH DIRECTION OF TWO-WAY TRAFFIC FLOW (UNLESS OTHERWISE SPECIFIED) ON WILLIAMS DRIVE AND BELMONT AVENUE DURING PEAK HOURS AND NON-WORKING HOURS. A MINIMUM OF 4' CLEARANCE SHALL BE MAINTAINED AT ALL TIMES BETWEEN TRAFFIC AND CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.

21. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AT EACH APPROACH TO PROJECT LIMITS AS DIRECTED BY THE ENGINEER AND SHALL IDENTIFY THE BEGINNING DATES OF CONSTRUCTION AND ADDITIONAL INFORMATION SOURCES AS DIRECTED BY THE ENGINEER.

22. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH EACH TRAFFIC CONTROL STAGE AND SHALL BE PAID AS PAVEMENT MARKING REMOVAL - GRINDING (78300201) OR PAVEMENT MARKING REMOVAL - WATER BLASTING (78300202).

23. THE CONTRACTOR SHALL COORDINATE THE BELMONT-MANNHEIM INTERSECTION RECONSTRUCTION SCHEDULE AND STAGING WITH THE RESPECTIVE UTILITIES, PACE, PUBLIC AGENCIES, SCHOOL DISTRICT, MUNICIPALITIES, ADJACENT BUSINESSES AND ADJACENT CONSTRUCTION CONTRACTS PRIOR TO STARTING WORK AND THROUGHOUT THE DURATION OF THE CONTRACT.

24. THE CONTRACTOR SHALL PREPARE AND SUBMIT A PROPOSED CONSTRUCTION SCHEDULE THAT MUST BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK.

SUGGESTED STAGING AND SEQUENCE OF CONSTRUCTION

STAGE 1

CONSTRUCTION:

1. RELOCATE CONFLICTING UTILITIES TO THE LOCATION IDENTIFIED ON THE PLANS. REMOVE THE EXISTING FIRE HYDRANT ON THE WEST SIDE OF MANNHEIM ROAD NEAR STATION 503+00 AND INSTALL THE NEW FIRE HYDRANT IN THE SAME VICINTY AS SHOWN ON THE PLANS.
2. INSTALL TEMPORARY TRAFFIC SIGNALS AT THE INTERSECTION OF MANNHEIM ROAD/BELMONT AVENUE. UPDATE THE TRAFFIC SIGNALS SEQUENCING AT FRANKLIN/WILLIAMS INTERSECTION.
3. INSTALL PROPOSED STORM SEWER ALONG BELMONT AVENUE (SOUTH SIDE).
4. CONSTRUCT PROPOSED EASTBOUND LANES ALONG BELMONT AVENUE DURING THIS STAGE AS SHOWN ON THE PLANS (CONCRETE BASE COURSE & HMA BINDER COURSE).

TRAFFIC CONTROL:

1. MAINTAIN 1 OUTER-MOST WESTBOUND LANE WITH 12' WIDTH DURING THIS STAGE ALONG BELMONT AVENUE, AS SHOWN ON THE PLANS. CLOSE EASTBOUND BELMONT AVENUE TRAFFIC EAST OF WILLIAMS DRIVE. RE-DIRECT EASTBOUND TRAFFIC TO FOLLOW SUGGESTED DETOUR ROUTE.
2. CONTRACTOR SHALL COORDINATE WITH ADJACENT BUSINESSES AND PROVIDE ACCESS TO BUSINESSES AT ALL TIMES DURING CONSTRUCTION.
3. LARGE TRUCKS TURNING FROM NORTHBOUND MANNHEIM ROAD ONTO WEST BELMONT AVENUE MAY ENCROACH THE NORTHEAST CORNER OF THE WORK AREA AT THE MANNHEIM ROAD/BELMONT AVENUE INTERSECTION. CONTRACTOR SHALL COORDINATE AND ADJUST THE TRAFFIC CONTROL ITEMS TO ACCOMMODATE WB-67 TRUCK TURNING RADIUS. COORDINATION AND ADJUSTMENT CANNOT BE BASIS FOR ADDITIONAL COMPENSATION.

STAGE 2

CONSTRUCTION:

1. RELOCATE CONFLICTING UTILITIES. REMOVE THE EXISTING FIRE HYDRANT ON THE WEST SIDE OF MANNHEIM ROAD NEAR STATION 506+00 AND INSTALL THE NEW FIRE HYDRANT IN THE SAME VICINTY AS SHOWN ON THE PLANS.
2. INSTALL PROPOSED STORM SEWER ALONG BELMONT AVENUE (NORTH SIDE) AND WEST SIDE OF MANNHEIM ROAD.
3. CONSTRUCT PROPOSED WESTBOUND LANES ALONG BELMONT AVENUE, NORTHEAST PORTION OF BELMONT/WILLIAMS INTERSECTION, AND EXCLUSIVE RIGHT-TURN LANE ALONG SOUTHBOUND MANNHEIM ROAD (CONCRETE BASE COURSE & HMA BINDER COURSE), AS SHOWN ON THE PLANS.
4. CONSTRUCT SIDEWALK ALONG EAST SIDE OF WILLIAMS DRIVE, NORTH SIDE OF BELMONT AVENUE, AND WEST SIDE OF MANNHEIM ROAD.

TRAFFIC CONTROL:

1. ESTABLISH TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS. SHIFT ALL BELMONT AVENUE TRAFFIC ONTO NEWLY CONSTRUCTED PROPOSED PAVEMENT.
2. CONTRACTOR SHALL COORDINATE ALL THEIR CONSTRUCTION ACTIVITIES WITH ADJACENT BUSINESSES AND PROVIDE ACCESS TO BUSINESSES ALL TIMES DURING CONSTRUCTION.

STAGE 3

CONSTRUCTION:

1. CONSTRUCT NORTHWEST CORNER OF INTERSECTION OF BELMONT AVENUE AND WILLIAMS DRIVE. (CONCRETE BASE COURSE & HMA BINDER COURSE)

TRAFFIC CONTROL:

1. ESTABLISH TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS. CLOSE TO TRAFFIC SOUTHBOUND WILLIAMS DRIVE NEAR BELMONT INTERSECTION. ALLOW ONLY NORTHBOUND TRAFFIC IN THIS AREA.
2. PROVIDE EXCLUSIVE RIGHT-TURN LANE FOR WESTBOUND BELMONT AVENUE TRAFFIC ONTO WILLIAMS DRIVE.
3. PROVIDE EXCLUSIVE LEFT-TURN LANE AND RIGHT-TURN LANE FOR EASTBOUND BELMONT AVENUE TRAFFIC ONTO MANNHEIM ROAD.
4. CONTRACTOR SHALL COORDINATE ALL THEIR CONSTRUCTION ACTIVITIES WITH ADJACENT BUSINESSES AND PROVIDE ACCESS TO BUSINESSES ALL TIMES DURING CONSTRUCTION.

STAGE 4

CONSTRUCTION:

1. CONSTRUCT SURFACE COURSE ALONG WILLIAMS DRIVE, BELMONT AVENUE AND SB MANNHEIM ROAD RIGHT TURN LANE.
2. INSTALL PROPOSED TRAFFIC SIGNAL AT BELMONT/WILLIAMS AND BELMONT/MANNHEIM INTERSECTIONS. UPDATE THE TRAFFIC SIGNALS SEQUENCING AT FRANKLIN/WILLIAMS INTERSECTION.
3. INSTALL PROPOSED SIGNS, PAVEMENT MARKINGS AND LIGHTING AS SHOWN ON THE PLANS.
4. INSTALL DELINEATORS AND ALL OTHER INCIDENTAL ITEMS IDENTIFIED ON THE PLANS.
5. CONSTRUCT PROPOSED EROSION CONTROL AND PROPOSED LANDSCAPING SEEDING/SODDING ALONG WILLIAMS DRIVE AND BELMONT AVENUE WITHIN OUR PROJECT LIMITS.
6. CONSTRUCT CONCRETE MEDIAN ADJACENT TO MANNHEIM ROAD NORTHBOUND AND SOUTHBOUND LEFT TURN LANES APPROACHING BELMONT AVENUE INTERSECTION.

TRAFFIC CONTROL:

1. MAINTAIN PROPOSED LANE CONFIGURATION ALONG WILLIAMS DRIVE AND BELMONT AVENUE.
2. UTILIZE OFF-PEAK HOURS DAILY ONE LANE CLOSURE (PER IDOT STANDARD 701602) TO CONSTRUCT CONCRETE MEDIAN ALONG THE NORTHBOUND AND THE SOUTHBOUND OF MANNHEIM ROAD.
3. CONTRACTOR IS ALLOWED TO CLOSE ONE LANE IN EACH DIRECTION DURING OFF PEAK HOURS AS SPECIFIED IN "KEEPING THE ARTERIAL ROADWAYS OPEN TO TRAFFIC" SPECIAL PROVISION.
4. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WHEN WORKING IN FRONT OF THE BUSINESSES AND PROVIDE ACCESS TO ALL BUSINESSES DURING CONSTRUCTION.
5. NIGHTLY LANE CLOSURES SHALL BE ALLOWED DURING THE HOURS LISTED IN THE SPECIAL PROVISIONS AND AS DETERMINED BY THE ENGINEER FOR THE CONSTRUCTION OF THE CENTER MEDIAN OF MANNHEIM ROAD.

SIGN	MUTCD CODE
ROAD CONSTRUCTION AHEAD	W20-I103(O)
WORK ZONE	W21-I115(O)-3618
SPEED LIMIT 30	R2-1-3648
$250 FINE MINIMUM	R2-I106P-3618
Or	W21-1a or W20-7a
END WORK ZONE SPEED LIMIT	G20-I103
STOP (ALL WAY)	R1-1-30
	R1-3P
DRIVEWAY ENTRANCE	SEE D1 DETAIL TC-26 FOR SIGN DETAILS
or	W1-3L(O)-48 OR W1-3R(O)-48
	W6-3(O)-48

SIGN	MUTCD CODE
STOP	R1-1
CROSS TRAFFIC DOES NOT STOP	W4-4P
TO FRANKLIN AVE	CUSTOM SIGN
	R8-3
SPEED LIMIT 25	R2-1
NO PARKING ANY TIME	R7-1
ONLY ONLY	R3-8
ONLY ONLY ONLY	R3-8b-3048
ONLY or ONLY	R3-8-30
LEFT TURN LANE or RIGHT TURN LANE	R3-I100L-2424 or R3-I100R-2424 M6-2L-2115 or M6-2R-2115
TO Franklin Avenue	CUSTOM SIGN
	W1-7
	R3-2

SIGN	MUTCD CODE
DO NOT ENTER	R5-1
or	W1-1L OR W1-1R
	R5-2
	W3-1(O)-48
ONLY	R3-5R
ROAD CLOSED 1,000 FEET AHEAD LOCAL TRAFFIC ONLY	R11-3a
ROAD CLOSED	R11-2
WRONG WAY	R5-1a-3624
BEGIN ONE WAY	R6-6-2430
END ONE WAY	R6-7-2430

SIGN	MUTCD CODE
EAST OF HANNHEIM RD	CUSTOM SIGN
RED LIGHT PHOTO ENFORCED	R10-I104
or	W4-2L or W4-2R
ROAD NARROWS	W5-1
ONE WAY or ONE WAY	R6-1L or R6-1R
	W3-3
or	W1-6L(O)-6030 or W1-6R(O)-6030
LEFT LANE CLOSED AHEAD or RIGHT LANE CLOSED AHEAD	W20-5L(O)-48 or W20-5R(O)-48
ROAD CLOSED 500 FT. / ROAD CLOSED AHEAD	W20-3-48

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	PLOT SCALE = 104.1667 ' / in.	CHECKED - PB	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

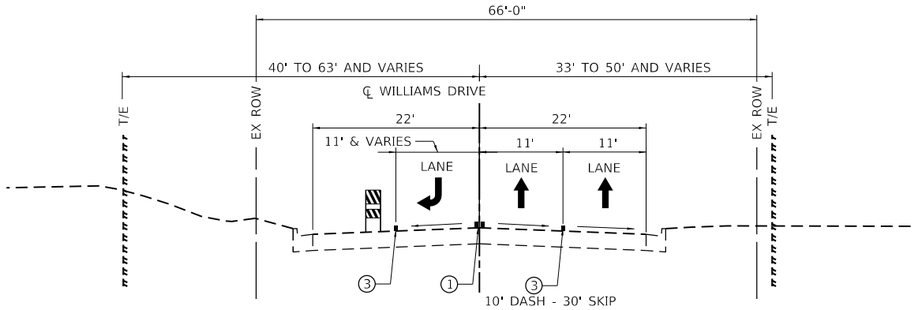
SUGGESTED STAGING AND TRAFFIC CONTROL SIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	29

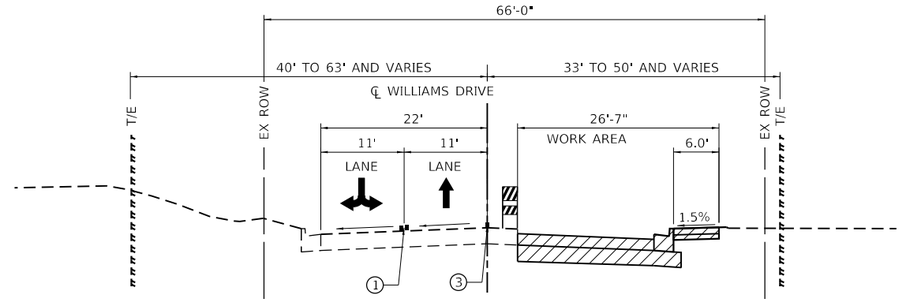
CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



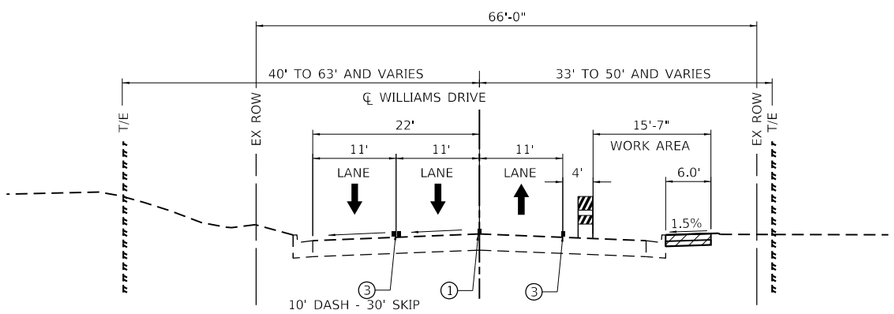
STAGE 1
WILLIAMS DRIVE

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH (TYP.)

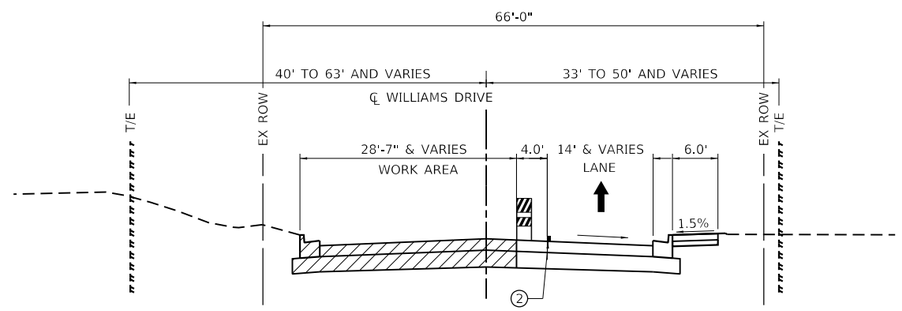


STAGE 2
WILLIAMS DRIVE

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH

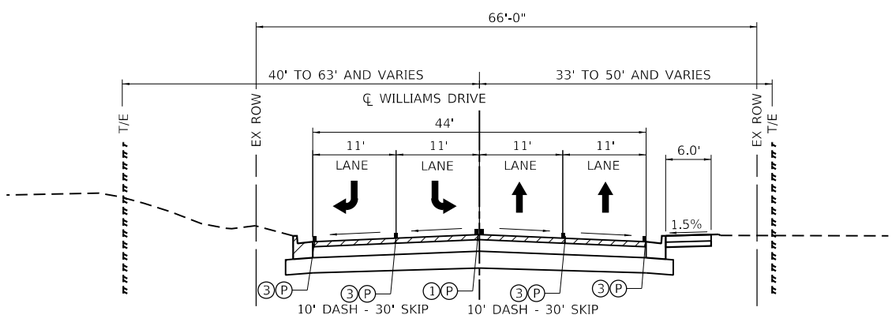


STAGE 2
WILLIAMS DRIVE



STAGE 3
WILLIAMS DRIVE

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH



STAGE 4
WILLIAMS DRIVE

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH

MOT TYPICALS LEGEND

- SUGGESTED STAGE CONSTRUCTION
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAPE WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAPE WHITE
(7) TMP PVT MK L&S T4 TAPE WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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		DRAWN - AJZ	REVISED -					1373	17-00083-02-PV	COOK	157	30
exp. exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 20.0000 ' / in.	CHECKED - PB	REVISED -							CONTRACT NO. 61K16		
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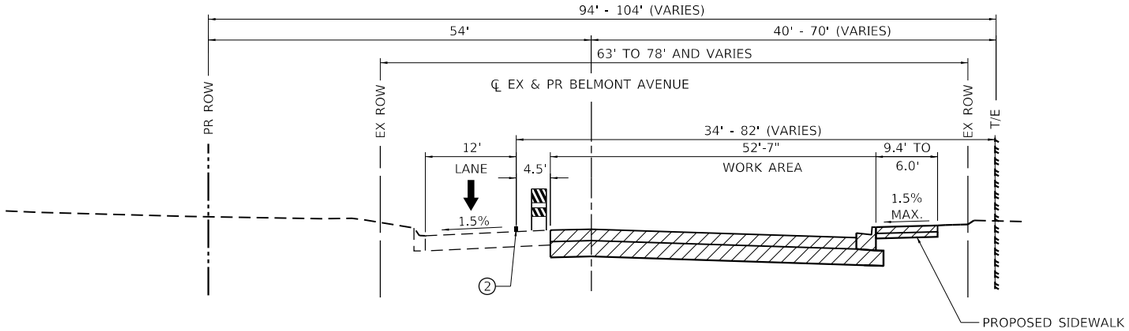
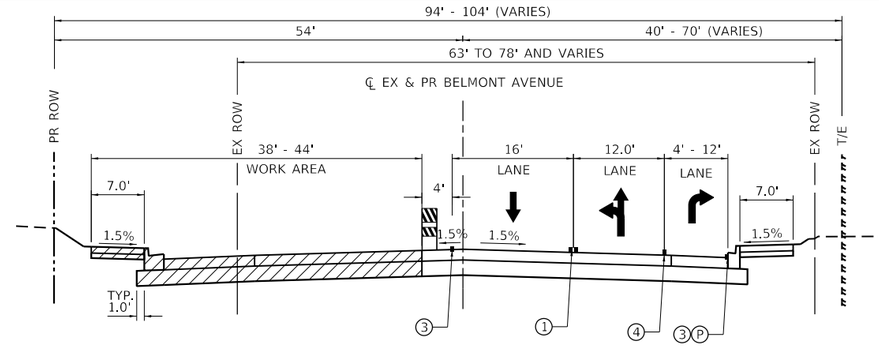


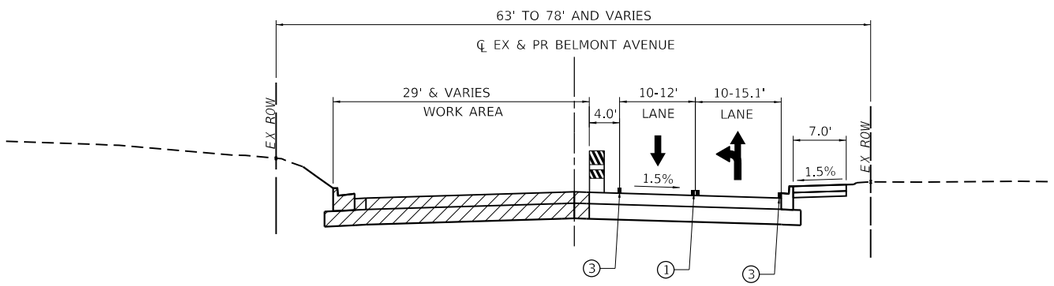
STAGE 1
BELMONT AVENUE

NEAR MANNHEIM RD. INTERSECTION
LOOKING EAST (TYP.)



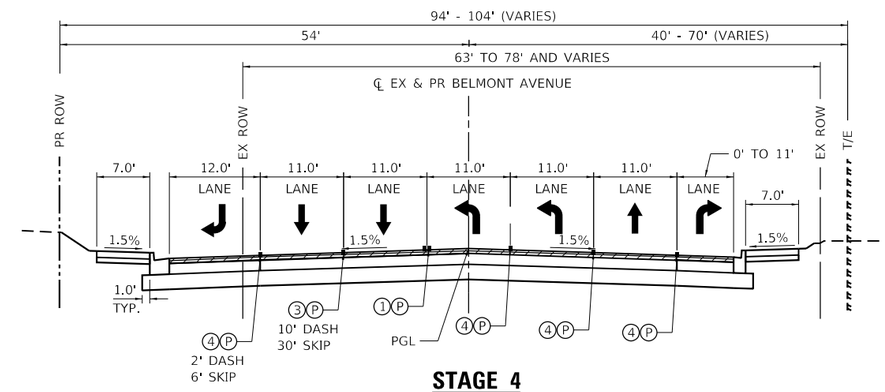
STAGE 2
BELMONT AVENUE

NEAR MANNHEIM RD. INTERSECTION
LOOKING EAST



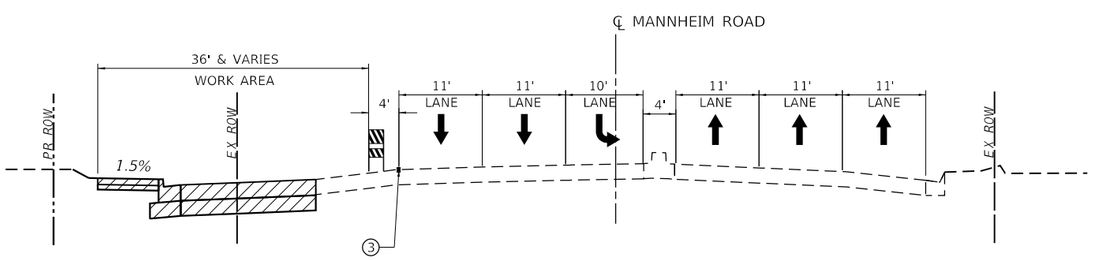
STAGE 3
BELMONT AVENUE

APPROACHING WILLIAMS DR. INTERSECTION
LOOKING EAST



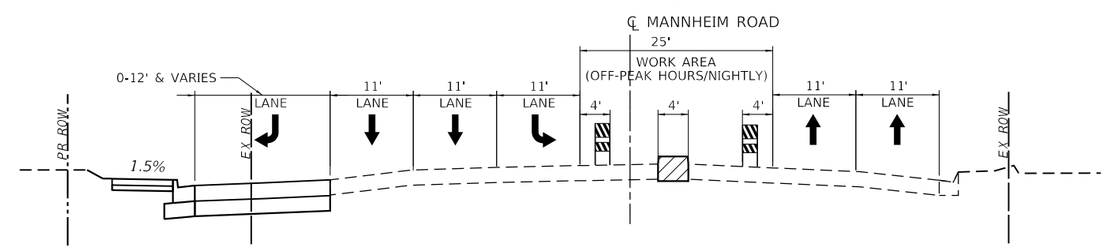
STAGE 4
BELMONT AVENUE

NEAR MANNHEIM RD. INTERSECTION
LOOKING EAST



STAGE 2
MANNHEIM ROAD

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH (TYP.)



STAGE 4
MANNHEIM ROAD

NEAR BELMONT AVE. INTERSECTION
LOOKING NORTH (TYP.)

MOT TYPICALS LEGEND

- SUGGESTED STAGE CONSTRUCTION
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAPE WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAPE WHITE
(7) TMP PVT MK L&S T4 TAPE WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY		DRAWN - AJZ	REVISED -		
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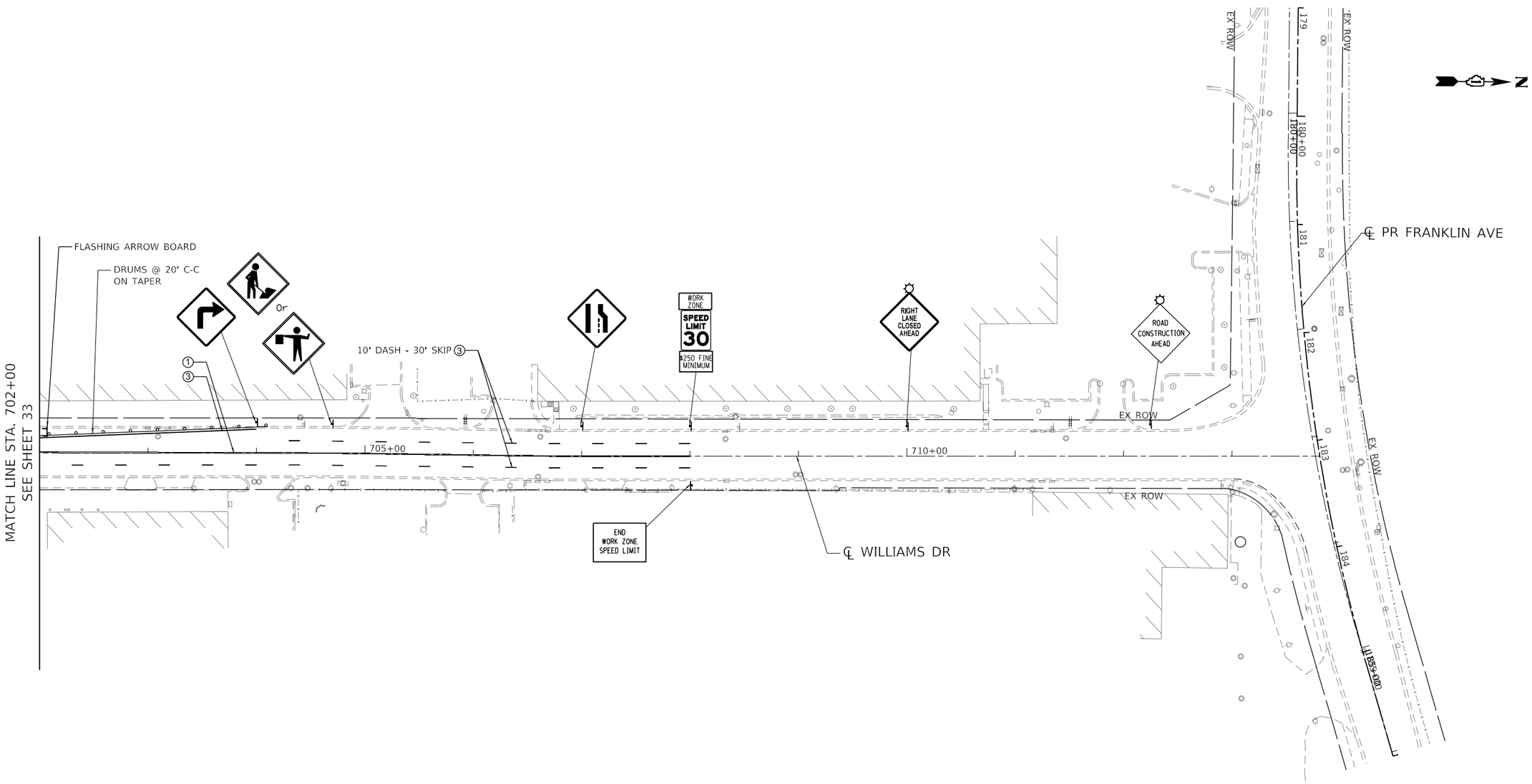
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	31
		CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		



MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

Ⓔ PREVIOUS STAGE PAVEMENT MARKING
① TMP PVT MK L4 T4 TAPE DBL YELLOW
② TMP PVT MK L4 T4 TAPE YELLOW
③ TMP PVT MK L4 T4 TAPE WHITE
④ TMP PVT MK L6 T4 TAPE WHITE
⑤ TMP PVT MK L12 T4 TAP WHITE/YELLOW
⑥ TMP PVT MK L24 T4 TAP WHITE
⑦ TMP PVT MK L&S T4 TAP WHITE
⑧ TMP PVT MK L8 T4 TAP WHITE
Ⓟ PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

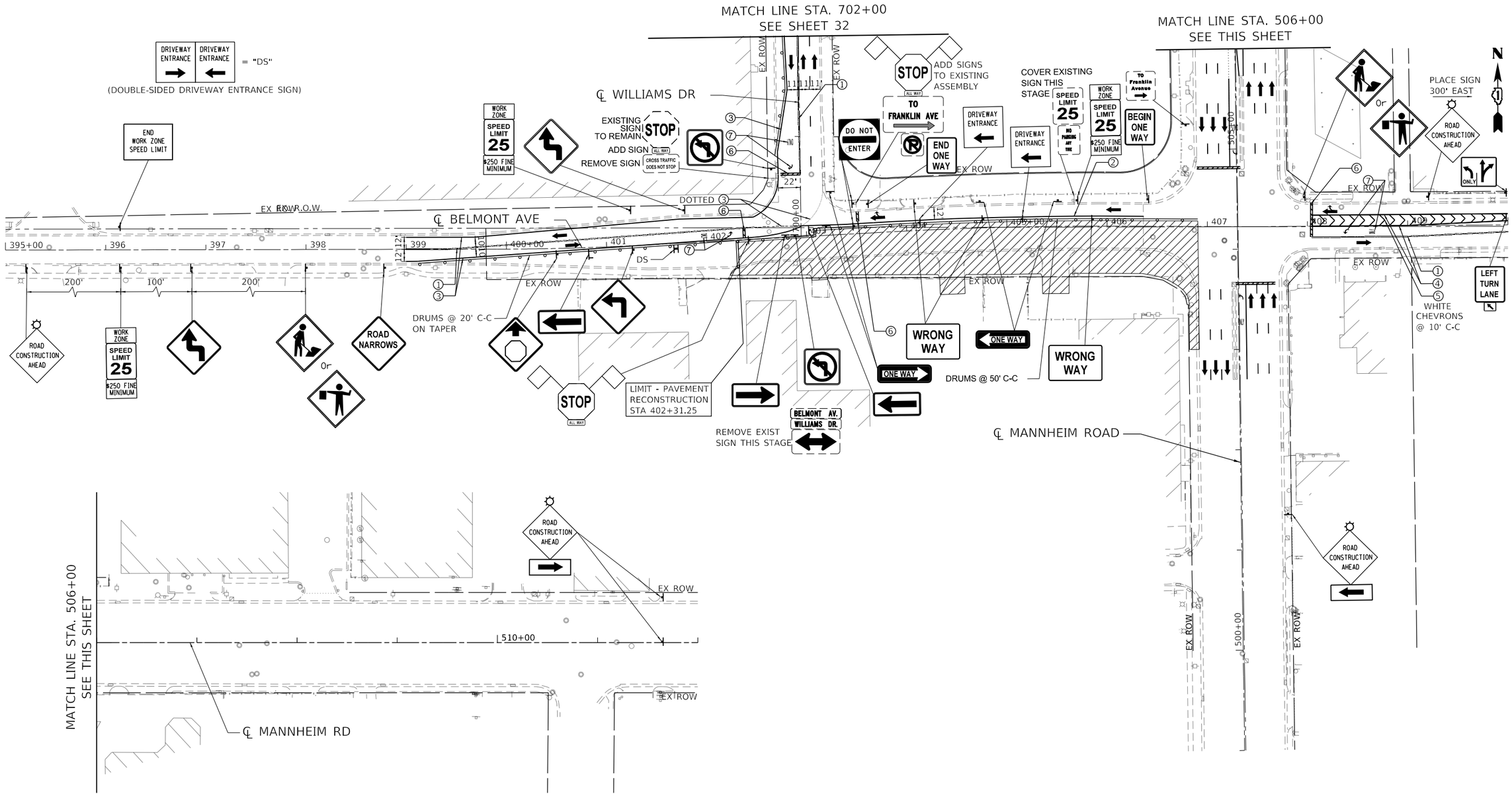
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE I

SCALE: 1"=50' | SHEET OF SHEETS | STA. 702+00 TO STA. 712+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	32

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



NOTES:

1. DAILY OFF-PEAK HOURS LANE CLOSURE REQUIRED FOR RIGHT-MOST LANE ALONG SB MANNHEIM RD DURING THIS STAGE, PER STANDARD 701701.
2. CHANGEABLE MESSAGE SIGNS SHALL BE USED FOR THE NORTH, EAST AND WEST LEGS OF THE BELMONT-WILLIAMS INTERSECTION FOR AT LEAST ONE WEEK AFTER CHANGING TO AN ALL-WAY STOP.
3. CONTRACTOR SHALL DETERMINE IF EXTRA DRUMS ARE NEEDED NEAR ACTIVE DRIVEWAYS ALONG BELMONT AVENUE DURING THIS STAGE.

MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAP WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAP WHITE
(7) TMP PVT MK L&S T4 TAP WHITE
(8) TMP PVT MK L8 T4 TAP WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - AJZ	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PB	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

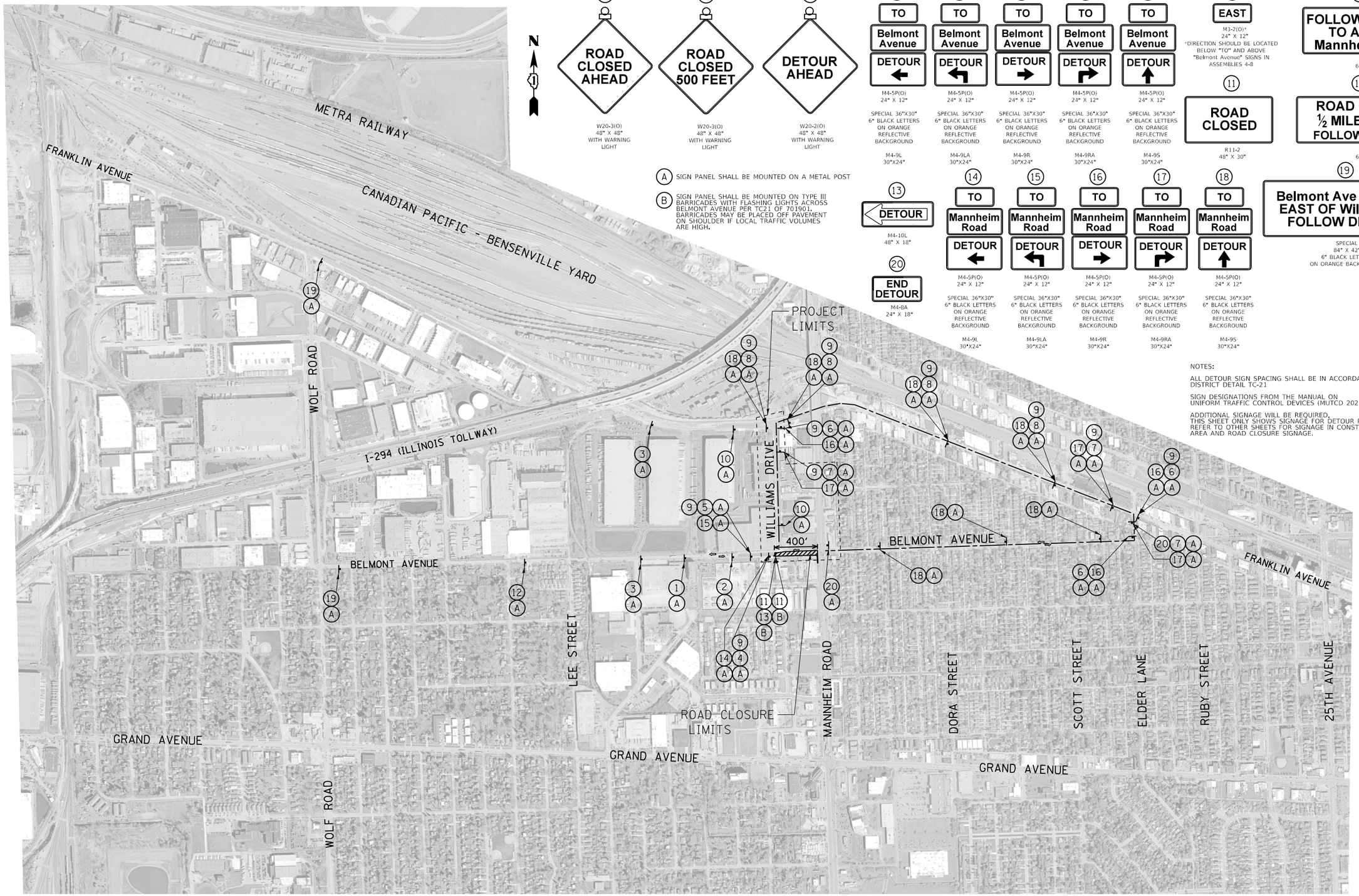
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE I

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	33

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



1

ROAD CLOSED AHEAD

W20-3(O)
48" X 48"
WITH WARNING LIGHT

2

ROAD CLOSED 500 FEET

W20-3(O)
48" X 48"
WITH WARNING LIGHT

3

DETOUR AHEAD

W20-2(O)
48" X 48"
WITH WARNING LIGHT

(A) SIGN PANEL SHALL BE MOUNTED ON A METAL POST

(B) SIGN PANEL SHALL BE MOUNTED ON TYPE III BARRICADES WITH FLASHING LIGHTS ACROSS BELMONT AVENUE PER TC21 OF 701901. BARRICADES MAY BE PLACED OFF PAVEMENT ON SHOULDER IF LOCAL TRAFFIC VOLUMES ARE HIGH.

4

TO
Belmont Avenue
DETOUR ←

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9L
30"X24"

5

TO
Belmont Avenue
DETOUR ↰

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9LA
30"X24"

6

TO
Belmont Avenue
DETOUR →

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9R
30"X24"

7

TO
Belmont Avenue
DETOUR ↱

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9RA
30"X24"

8

TO
Belmont Avenue
DETOUR ↑

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9S
30"X24"

9

EAST

M3-2(O)*
24" X 12"
*DIRECTION SHOULD BE LOCATED BELOW "TO" AND ABOVE "Belmont Avenue" SIGNS IN ASSEMBLIES 4-8

10

FOLLOW DETOUR
TO ACCESS
Mannheim Road

R11-4
60" X 30"

11

ROAD CLOSED

R11-2
48" X 30"

12

ROAD CLOSED
½ MILE AHEAD
FOLLOW DETOUR

R11-3a
60" X 30"

13

DETOUR

M4-10L
48" X 18"

14

TO
Mannheim Road
DETOUR ←

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9L
30"X24"

15

TO
Mannheim Road
DETOUR ↰

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9LA
30"X24"

16

TO
Mannheim Road
DETOUR →

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9R
30"X24"

17

TO
Mannheim Road
DETOUR ↱

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9RA
30"X24"

18

TO
Mannheim Road
DETOUR ↑

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS
ON ORANGE
REFLECTIVE
BACKGROUND

M4-9S
30"X24"

19

Belmont Ave CLOSED
EAST OF Williams Dr
FOLLOW DETOUR

SPECIAL
84" X 42"
6" BLACK LETTERS
ON ORANGE BACKGROUND

20

END DETOUR

M4-8A
24" X 18"

NOTES:

ALL DETOUR SIGN SPACING SHALL BE IN ACCORDANCE WITH DISTRICT DETAIL TC-21

SIGN DESIGNATIONS FROM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2023).

ADDITIONAL SIGNAGE WILL BE REQUIRED. THIS SHEET ONLY SHOWS SIGNAGE FOR DETOUR ROUTES. REFER TO OTHER SHEETS FOR SIGNAGE IN CONSTRUCTION AREA AND ROAD CLOSURE SIGNAGE.

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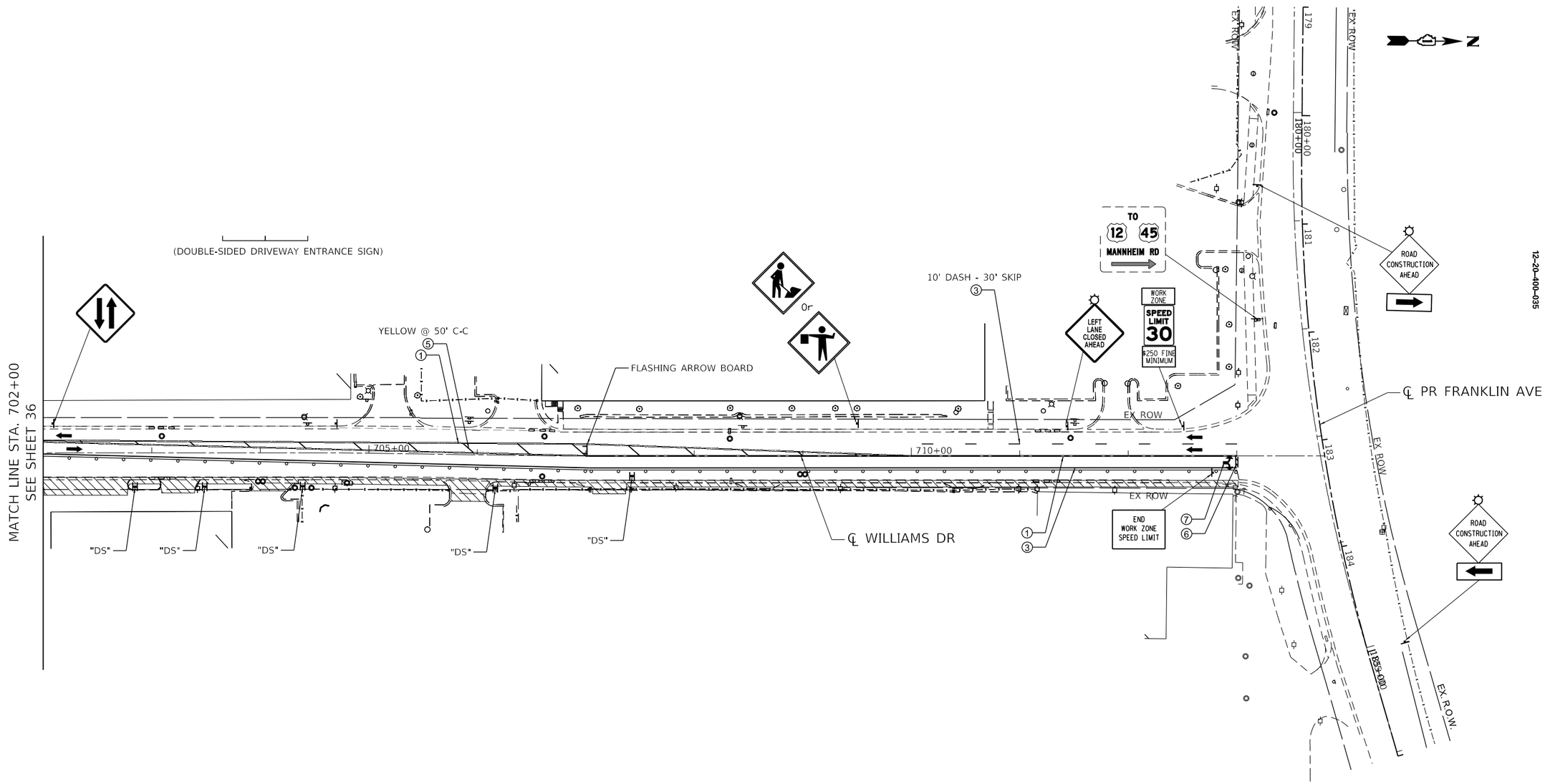
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGING AND TRAFFIC CONTROL
DETOUR ROUTE PLAN – STAGE I

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	34
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



12-20-400-035

MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAP WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAP WHITE
(7) TMP PVT MK L&S T4 TAP WHITE
(8) TMP PVT MK L8 T4 TAP WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

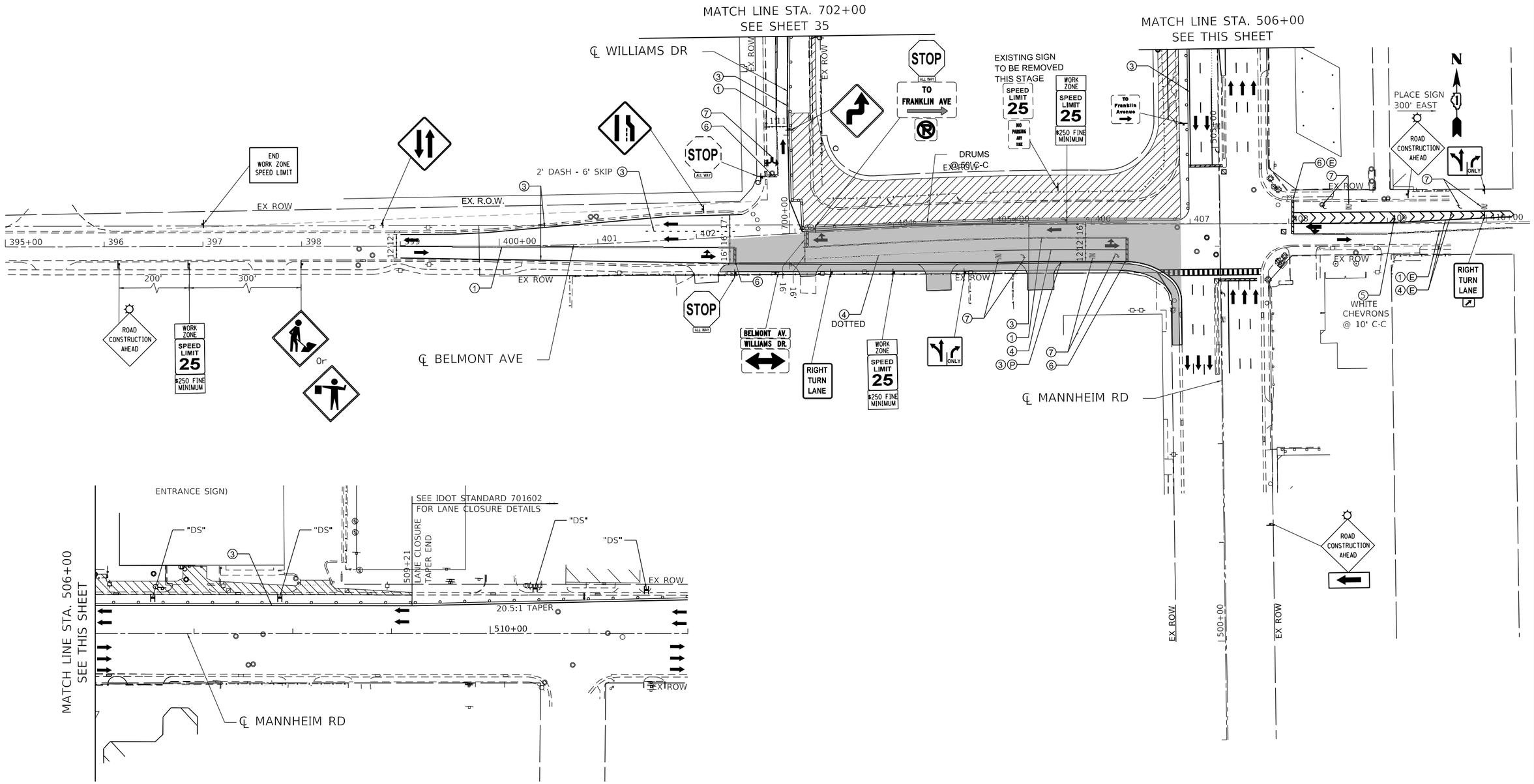
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE II

SCALE: 1"=50' | SHEET OF SHEETS | STA. 702+00 TO STA. 712+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	35

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAP WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAP WHITE
(7) TMP PVT MK L&S T4 TAP WHITE
(8) TMP PVT MK L8 T4 TAP WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

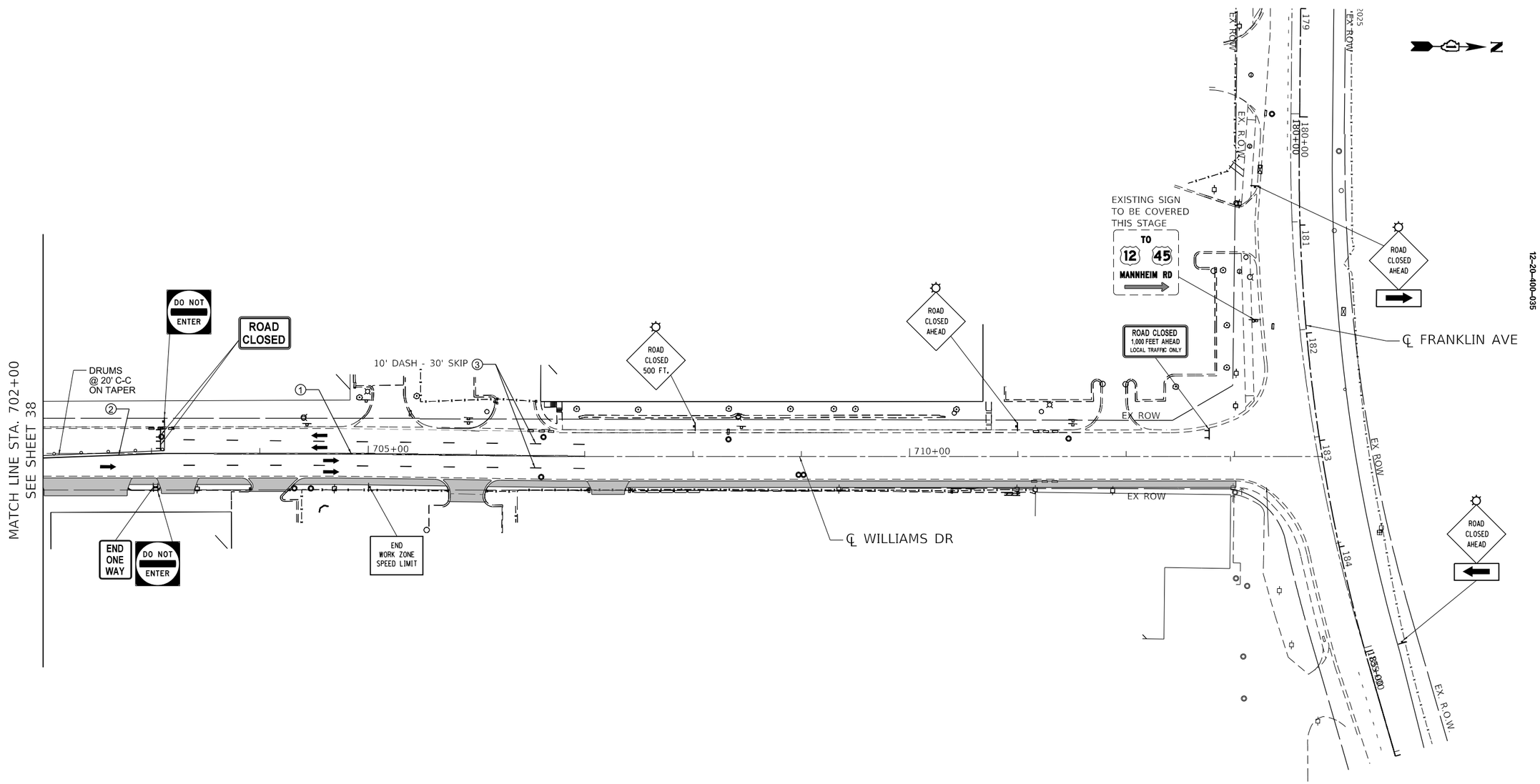
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE II

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	36

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



12-20-400-035

MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAP WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAP WHITE
(7) TMP PVT MK L&S T4 TAP WHITE
(8) TMP PVT MK L8 T4 TAP WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE III

SCALE: 1"=50' | SHEET OF SHEETS | STA. 702+00 TO STA. 712+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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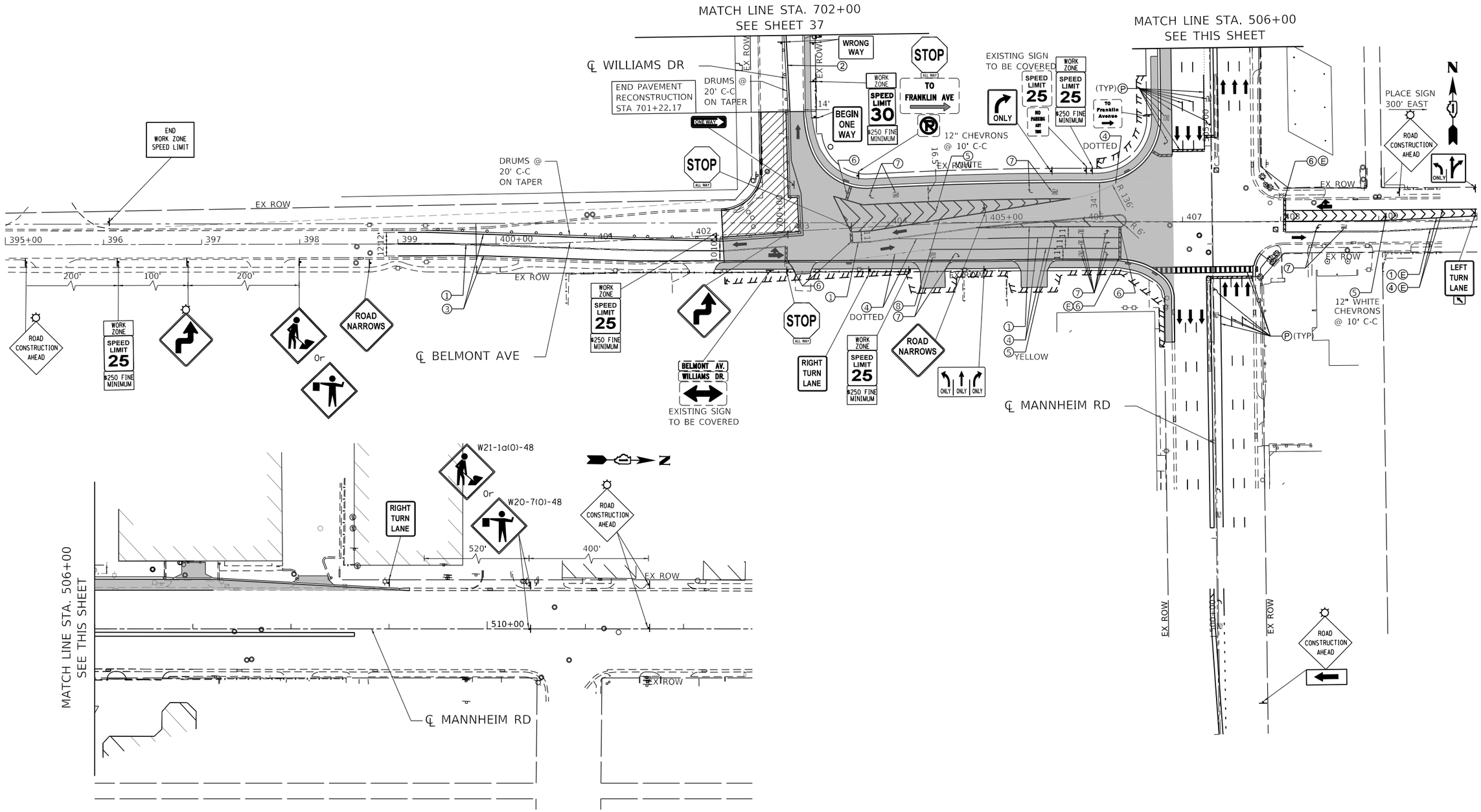
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



MOT LEGEND

- WORK AREA
- PROP. PAVEMENT CONSTRUCTED IN PREVIOUS STAGE
- DIRECTION OF TRAVEL
- DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD

(E) PREVIOUS STAGE PAVEMENT MARKING
(1) TMP PVT MK L4 T4 TAPE DBL YELLOW
(2) TMP PVT MK L4 T4 TAPE YELLOW
(3) TMP PVT MK L4 T4 TAPE WHITE
(4) TMP PVT MK L6 T4 TAPE WHITE
(5) TMP PVT MK L12 T4 TAP WHITE/YELLOW
(6) TMP PVT MK L24 T4 TAP WHITE
(7) TMP PVT MK L&S T4 TAP WHITE
(8) TMP PVT MK L8 T4 TAP WHITE
(P) PERMANENT PAVEMENT MARKING (SEE PAVEMENT MARKING PLANS)

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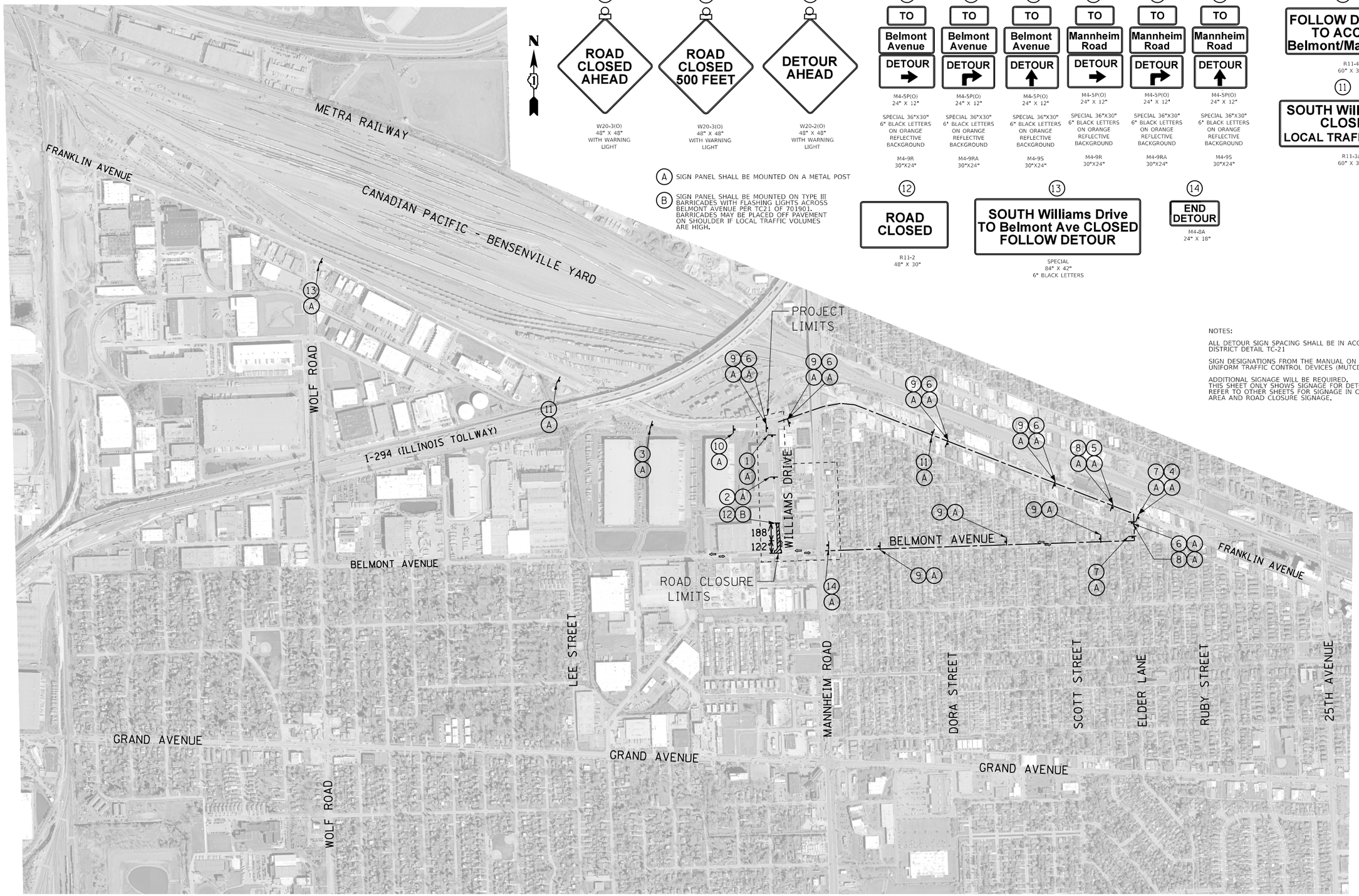
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE III

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	38
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



1

ROAD CLOSED AHEAD

W20-3(O)
48" X 48"
WITH WARNING LIGHT

2

ROAD CLOSED 500 FEET

W20-3(O)
48" X 48"
WITH WARNING LIGHT

3

DETOUR AHEAD

W20-2(O)
48" X 48"
WITH WARNING LIGHT

4

TO
Belmont Avenue
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9R
30"X24"

5

TO
Belmont Avenue
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9RA
30"X24"

6

TO
Belmont Avenue
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9S
30"X24"

7

TO
Mannheim Road
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9R
30"X24"

8

TO
Mannheim Road
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9RA
30"X24"

9

TO
Mannheim Road
DETOUR

M4-5P(O)
24" X 12"

SPECIAL 36"X30"
6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

M4-9S
30"X24"

10

FOLLOW DETOUR TO ACCESS Belmont/Mannheim

R11-4
60" X 30"

11

SOUTH Williams Dr CLOSED
LOCAL TRAFFIC ONLY

R11-3a
60" X 30"

12

ROAD CLOSED

R11-2
48" X 30"

13

SOUTH Williams Drive TO Belmont Ave CLOSED FOLLOW DETOUR

SPECIAL
84" X 42"
6" BLACK LETTERS

14

END DETOUR

M4-8A
24" X 18"

(A) SIGN PANEL SHALL BE MOUNTED ON A METAL POST

(B) SIGN PANEL SHALL BE MOUNTED ON TYPE III BARRICADES WITH FLASHING LIGHTS ACROSS BELMONT AVENUE PER TC21 OF 701901. BARRICADES MAY BE PLACED OFF PAVEMENT ON SHOULDER IF LOCAL TRAFFIC VOLUMES ARE HIGH.

NOTES:

ALL DETOUR SIGN SPACING SHALL BE IN ACCORDANCE WITH DISTRICT DETAIL TC-21

SIGN DESIGNATIONS FROM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2023).

ADDITIONAL SIGNAGE WILL BE REQUIRED. THIS SHEET ONLY SHOWS SIGNAGE FOR DETOUR ROUTES. REFER TO OTHER SHEETS FOR SIGNAGE IN CONSTRUCTION AREA AND ROAD CLOSURE SIGNAGE.

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SUGGESTED STAGING AND TRAFFIC CONTROL
DETOUR ROUTE PLAN – STAGE III

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	39
		CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1) THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.

2) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATIN OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

3) TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.

4) ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.

5) DISTRUBED AREAS ARE TO BE PRROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.

6) THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN ½INCH OR EQUIVALENT SNOWFALL.

7) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALLL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE PROCEDURES AND STANDARDS FOR URBAN EROSION AND SEDIMENTATION CONTROL IN ILLINOIS AND THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION.

8) TEMPORARY EROSION CONTROL SEEDING SHALL BE USED ON AREAS FOR SHORT-TERM STABILIZATION.

9) THE CONSTRUCTION LIMITS WILL BE STAKED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.

10) THE RESIDENT ENGINEER SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

11) ALL ADJACENT STREETS/ROADWAYS MUST BE KEPT CLEAR OF DIRT OR CONSTRUCTION DEBRIS. THE ROADWAYS SHALL BY INSPECTED DAILY AND CLEANED WHEN NECESSARY.

12) SODDING SHALL BE USED ON ALL DISTURBED AREAS WHENEVER POSSIBLE.

13) ALL TEMPORARY STOCKPILES SHALL HAVE SILT FENCE AT THE PERIMETER OF THE STOCKPILE, STOCKPILES SHALL NOT BE LOCATED CLOSER THAN 25 FEET TO A PAVED ROADWAY OR 100 FEET TO A DRAINAGE CHANNEL. STOCKPILES SHALL NOT BE LOCATED IN THE FLOODPLAIN, OVERFLOW ROUTES, RIPARIAN AREAS (VEGETATED FLOODPLAINS), WETLANDS, WATERS OF THE U.S., OR AREAS SUBJECT TO INUNDATION. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER. SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO THE BUILDING OR REMOVAL OF ANY STOCKPILE.

14) RUNOFF LEAVING THE JOB SITE MUST PASS THROUGH AN EROSION AND SEDIMENT CONTROL SYSTEM FOLLOWING IDOT STANDARDS AND AS SHOWN IN THE PLANS.

15) THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

GENERAL NOTES (CONT'D)

16) TEMPORARY STABILIZED CONSTRUCTION ENTRANCES, GRAVEL ROADS, ACCESS DRIVES, AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF THE WORKDAY OR SOONER AS DIRECTED BY THE ENGINEER.

17) SHOULD IT BE NECESSARY TO REMOVE ANY EROSION CONTROL DEVICES FOR CONSTRUCTION REASONS, THE CONTRACTOR SHALL FIRST OBTAIN PERMISSION AND SHALL REPAIR OR REPLACE THE REMOVED DEVICES THE SAME DAY. THE COST OF REMOVING AND REPLACING THE DEVICE SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

18) SILT FENCE SHALL BE USED AS A PERIMETER SEDIMENT BARRIER TO FILTER RUNOFF LEAVING THE PROJECT LIMITS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

19) EXISTING AND PROPOSED DRAINAGE STRUCTURES RECEIVING RUNOFF SHALL BE PROTECTED BEFORE CONSTRUCTION COMMENCES UPSTREAM.

20) THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER EARTH AREAS MAY BE STABILIZED WITH FINAL VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING FINAL SEEDING AND EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET.

21) EROSION AND SEDIMENT CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ENSURE THAT SOIL EROSION AND SEDIMENT CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED TO CONTROL OFF-SITE SEDIMENT DISCHARGES.

22) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED, EFFECTIVE, AND MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SHUTDOWN PERIODS.

23) THE CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. AREAS OUTSIDE THE SHOWN CONSTRUCTION LIMITS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED AND STABILIZED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

24) TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY DEVIATION FROM THE TEMPORARY EROSION CONTROL PLAN OR SCHEDULE SHALL BE AT THE DISCRETION OF THE ENGINEER.

25) IN CASE OF CONFLICT BETWEEN THE EROSION CONTROL TABLES, EROSION CONTROL PLAN AND OVERVIEW DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND RECEIVE CLARIFICATIONS BEFORE PROCEEDING WITH THE WORK.

26) THE CONTRACTOR SHALL SUBMIT AS PART OF THEIR SIGNED CONTRACTOR CERTIFICATION STATEMENT THE ITEMS SPECIFIED IN S.P. 111.2, STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

27) FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM SEWERS, DITCHES, AND WATERCOURSES FROM CONTAMINATION BY WATERBORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT.

28) THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AND OTHER PROJECT AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH AREAS AS DIRECTED BY THE ENGINEER, CALCIUM CHLORIDE SHALL NOT BE USED FOR THIS PURPOSE. DUST SHALL BE CONTROLLED THROUGH A UNIFORM APPLICATION OF SPRAYED WATER IN A MANNER MEETING ENGINEER APPROVAL. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED ON FIELD AND WEATHER CONDITIONS.

29) ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND DISTURBED AREAS ARE PERMANENTLY STABILIZED.

30) ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

GENERAL NOTES (CONT'D)

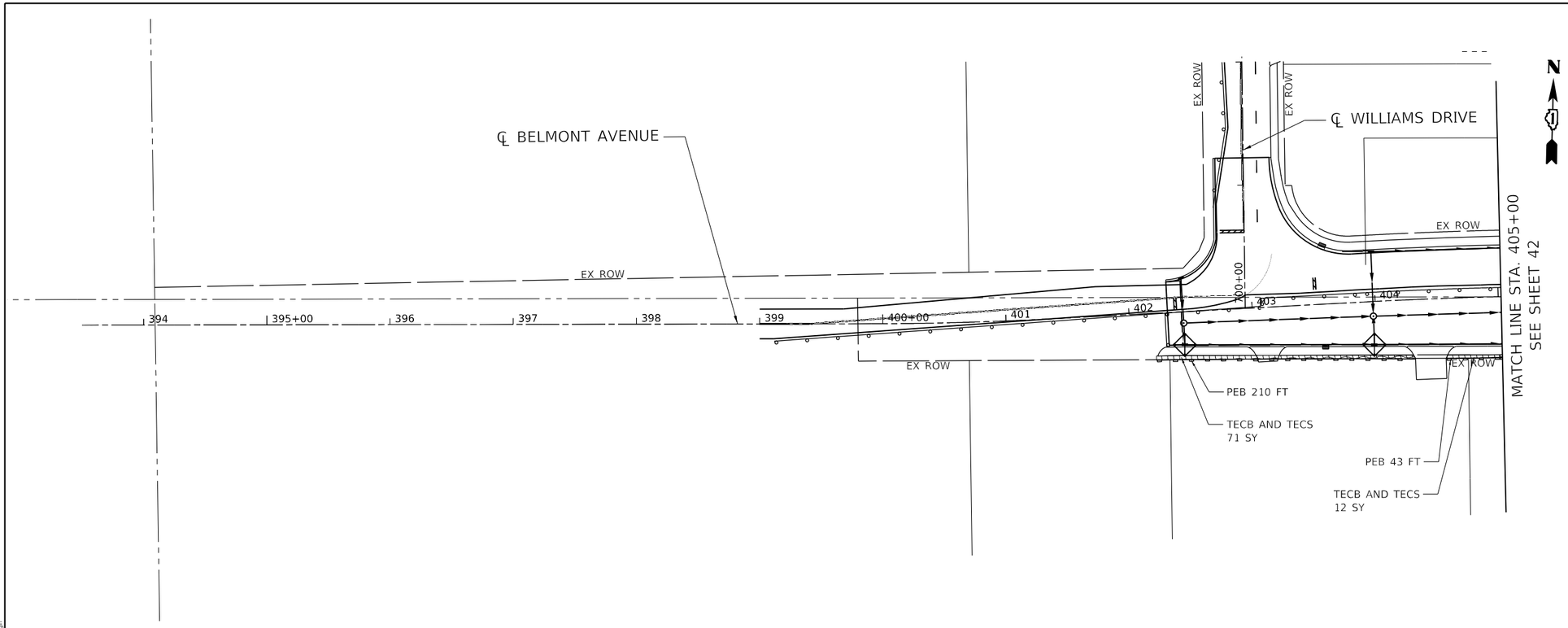
31) SOIL DISTURBANCE SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES. TO THE MAXIMUM EXTENT POSSIBLE, EROSION SHALL BE MINIMIZED AT ITS SOURCE.

32) STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ON PUBLIC RIGHT-OF-WAY OR STREETS. STABILIZED CONSTRUCTION ENTRANCES SHALL ONLY BE CONSTRUCTED AT LOCATIONS APPROVED BY THE ENGINEER.

33) REMOVING AND RE-INSTALLING INLET PROTECTION DEVICES TO ACCOMMODATE DRAINAGE STRUCTURE ADJUSTMENT IS INCLUDED IN THE COST OF THE INLET PROTECTION DEVICE.

34) THE INSTALLATION, MAINTENANCE, REMOVAL, AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF SILT FENCE IS INCLUDED IN THE CONTRACTOR UNIT PRICE FOR SILT FENCE. AFTER THE REMOVAL OF SILT FENCE, THE AREAS DISTURBED BY THE FENCE INSTALLATION SHALL BE RESTORED.

35) THE LOCATIONS OF ALL EROSION CONTROL MEASURES SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS. ALL INSTALLATION LOCATIONS ARE TO BE VERIFIED WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.



PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS (28000250) and TECB (28001100))

DRAINAGE INLET PROTECTION (28000510)

PERIMETER EROSION BARRIER (PEB (28000400))

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

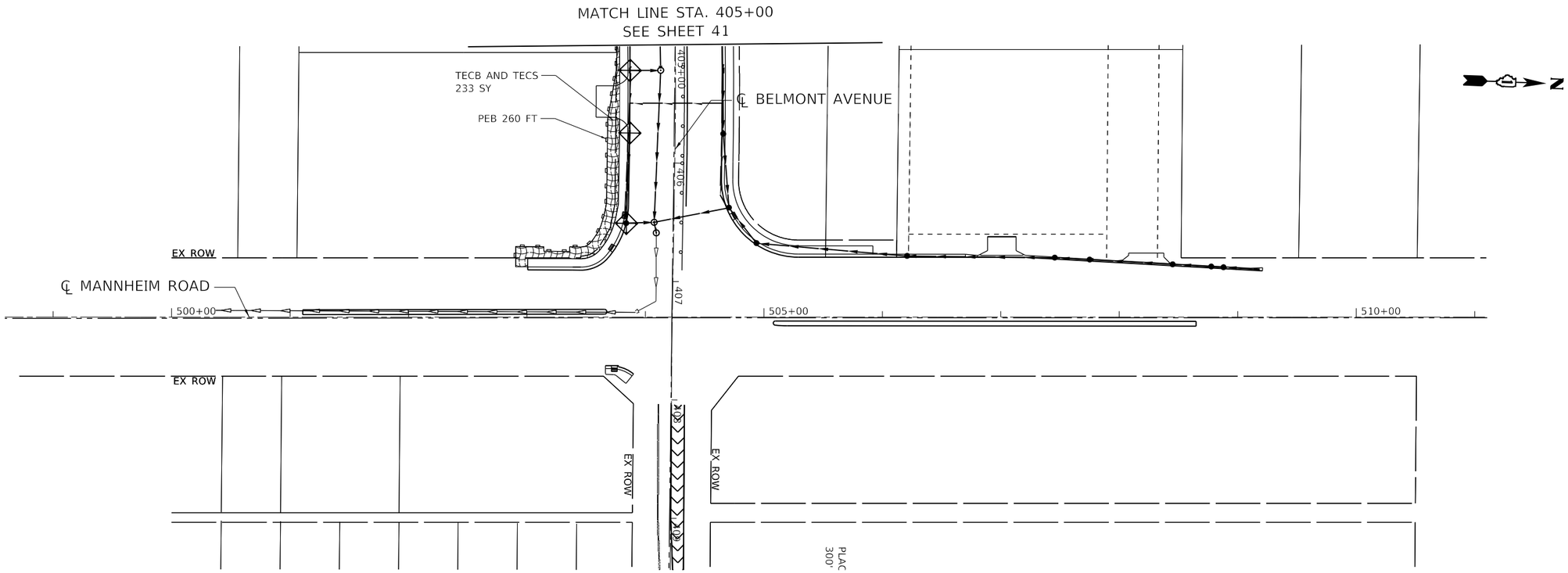
EROSION AND SEDIMENT CONTROL
STAGE I

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	41

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS (28000250) and TECB (28001100))

DRAINAGE INLET PROTECTION (28000510)

PERIMETER EROSION BARRIER (PEB (28000400))

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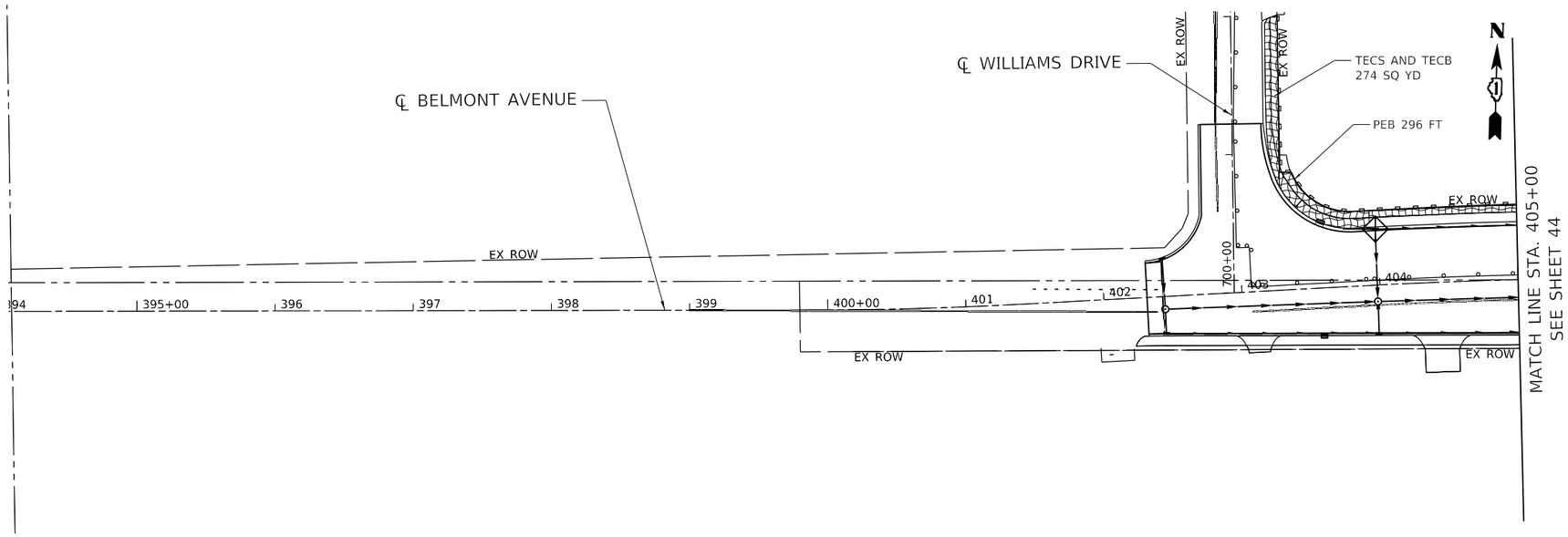

PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS (28000250) and TECB (28001100))

DRAINAGE INLET PROTECTION (28000510)

PERIMETER EROSION BARRIER (PEB (28000400))

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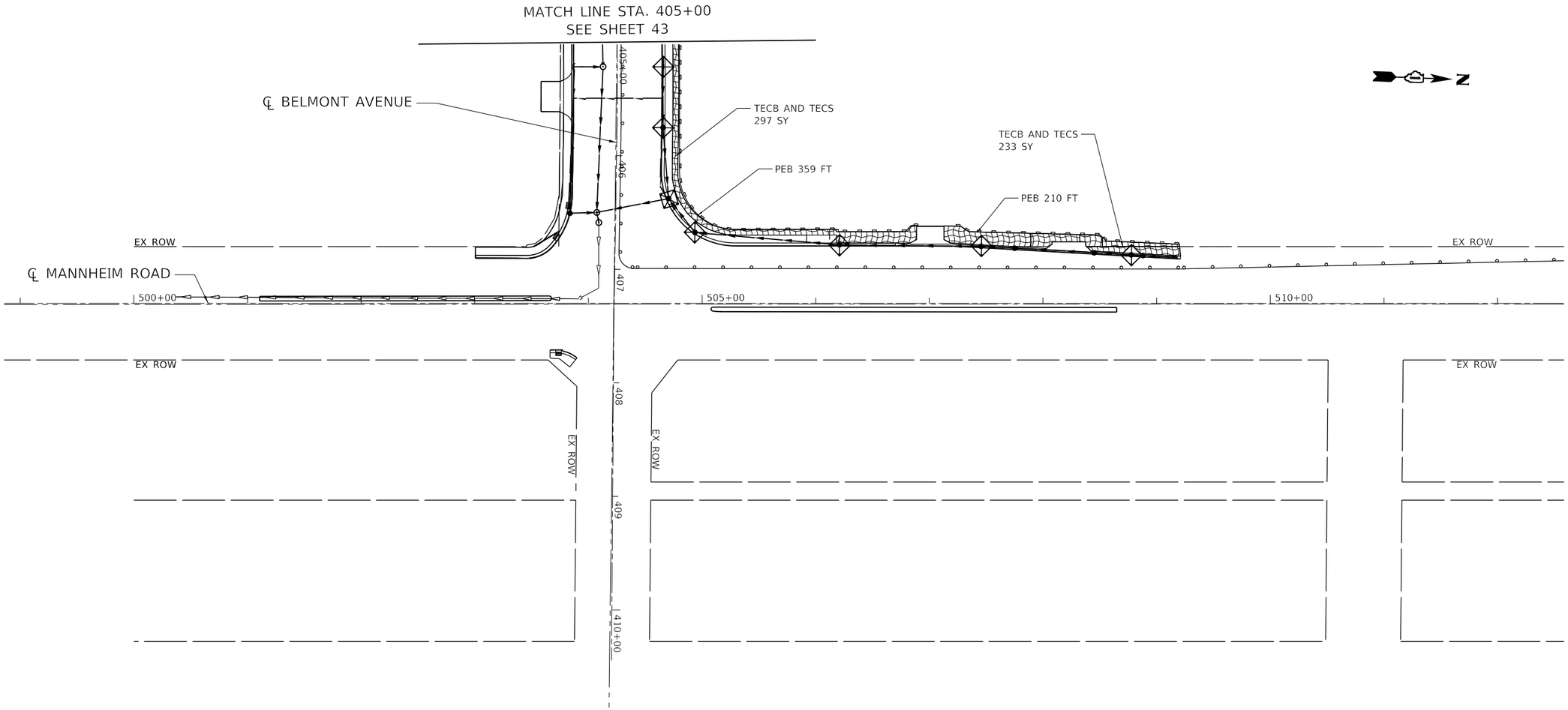

PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS (28000250) and TECB (28001100))

DRAINAGE INLET PROTECTION (28000510)

PERIMETER EROSION BARRIER (PEB (28000400))

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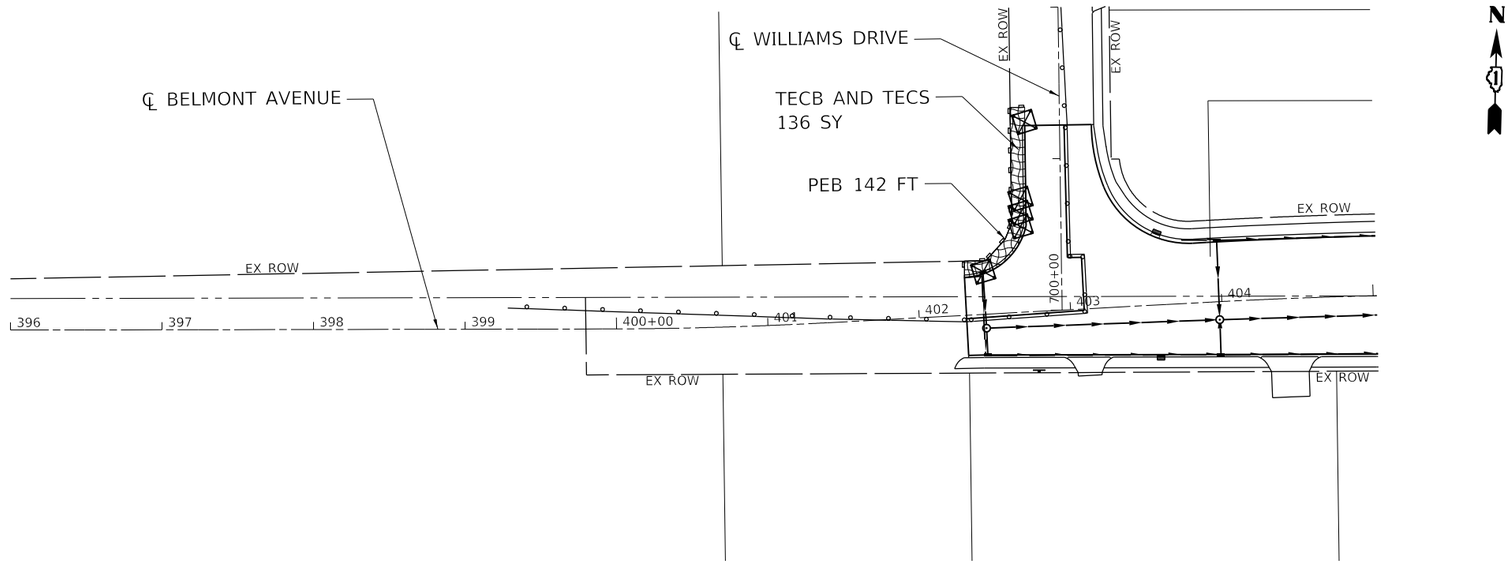
EROSION AND SEDIMENT CONTROL
STAGE II

SCALE: 1"=50' | SHEET OF SHEETS | STA. 497+90 TO STA. 510+65

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	44

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET
(TECS (28000250) and TECB (28001100))

DRAINAGE INLET PROTECTION (28000510)

PERIMETER EROSION BARRIER (PEB (28000400))

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

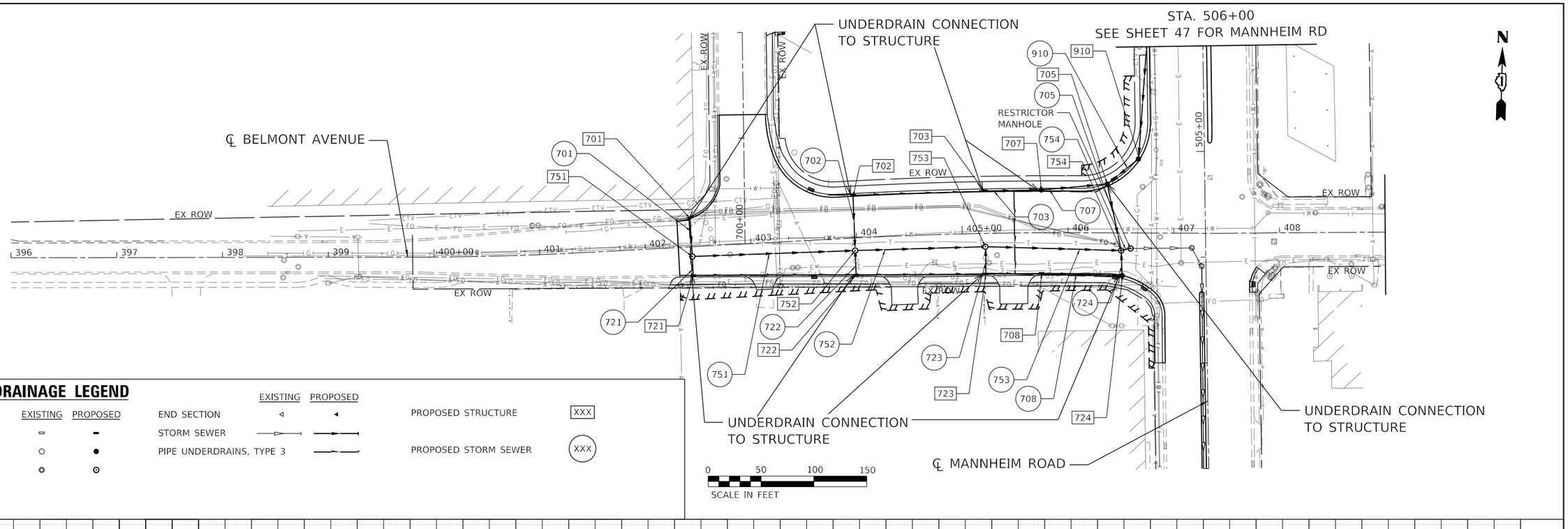
EROSION AND SEDIMENT CONTROL
STAGE III

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	45

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



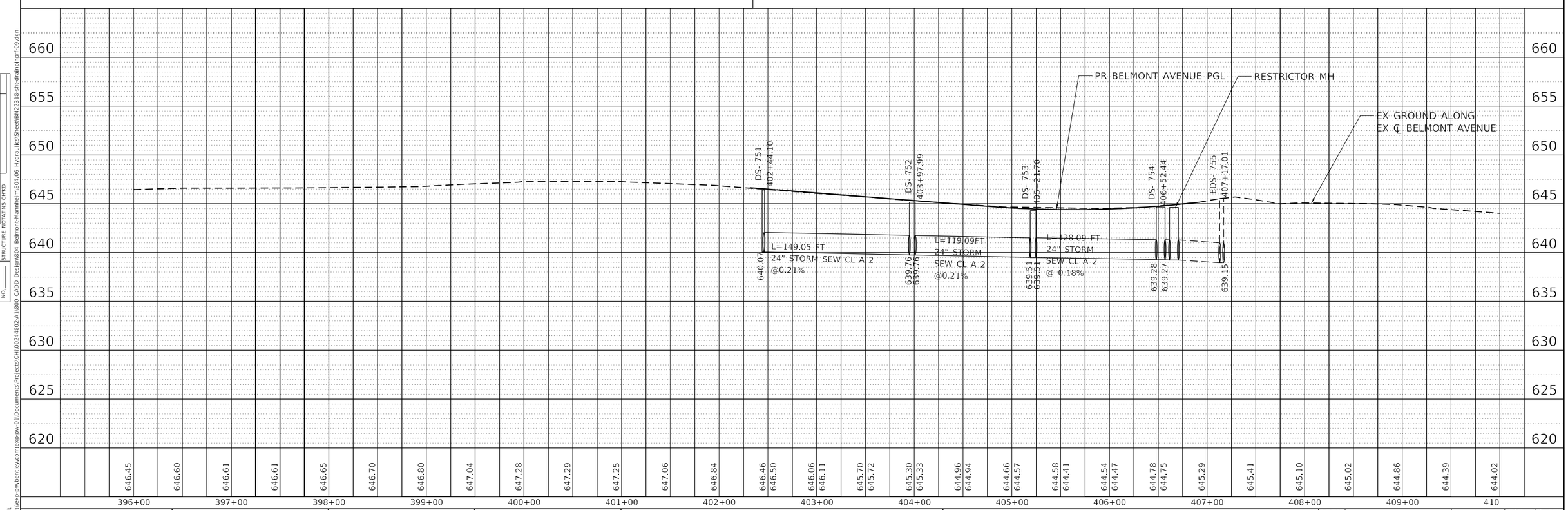
PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED
INLET	▭	▬
CATCH BASIN	○	●
MANHOLE	⊙	⊙

	EXISTING	PROPOSED
END SECTION	◁	◀
STORM SEWER		
PIPE UNDERDRAINS, TYPE 3		

PROPOSED STRUCTURE — XXX

PROPOSED STORM SEWER — XXX



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

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		DRAWN - NRM	REVISED -
exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 100.0000 ' / in.	CHECKED - SH	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

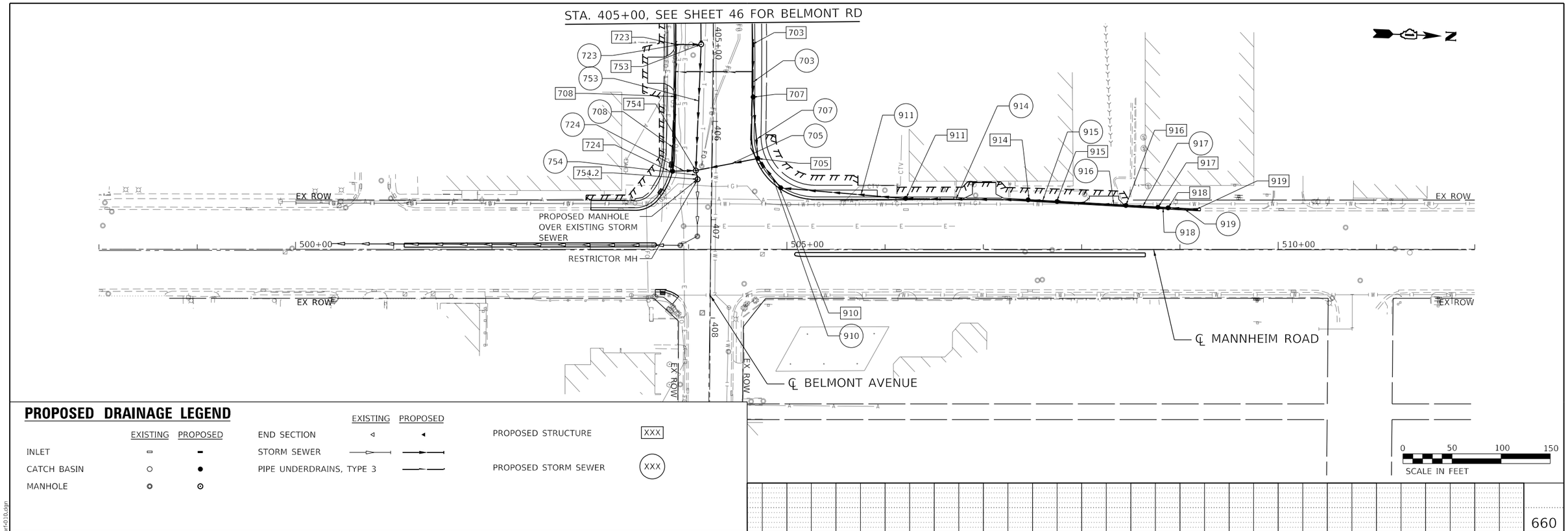
DRAINAGE PLAN & PROFILE
BELMONT AVENUE

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. 397+00 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	46

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



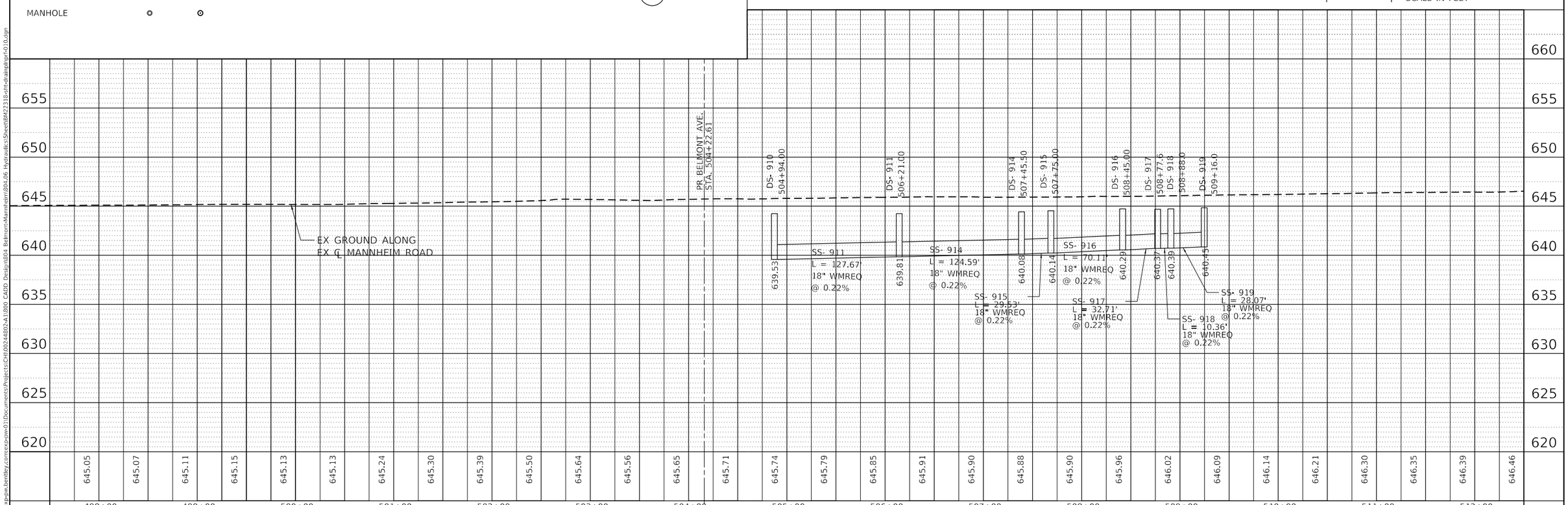
PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED
INLET	▭	▬
CATCH BASIN	○	●
MANHOLE	◎	⊙

	EXISTING	PROPOSED
END SECTION	◁	◀
STORM SEWER		
PIPE UNDERDRAINS, TYPE 3		

PROPOSED STRUCTURE XXX

PROPOSED STORM SEWER (XXX)



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NOTE BOOK NO.	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / PROFILE CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD		

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	PLOT DATE = 11/10/2025	CHECKED - SH	REVISED -
		DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

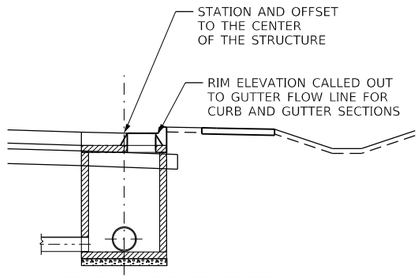
DRAINAGE PLAN & PROFILE
MANNHEIM ROAD

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. 702+00 TO STA. 712+00

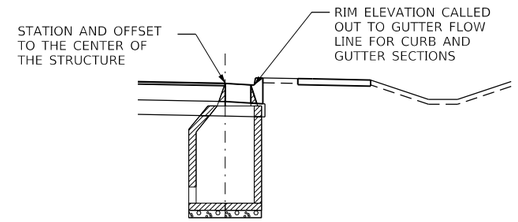
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	47

CONTRACT NO. 61K16

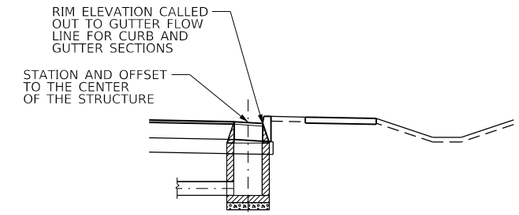
ILLINOIS FED. AID PROJECT



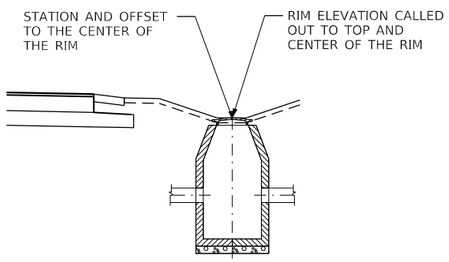
ELEVATION
CATCH BASIN & MANHOLE WITH CURB AND GUTTER
(FLAT TOP SECTIONS)



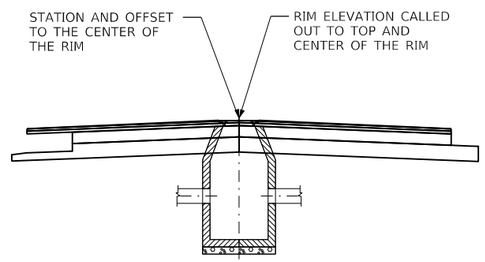
ELEVATION
CATCH BASIN & MANHOLE WITH CURB AND GUTTER
(CONE SECTIONS)



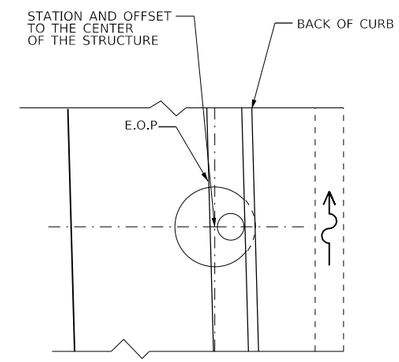
ELEVATION
INLET WITH CURB AND GUTTER



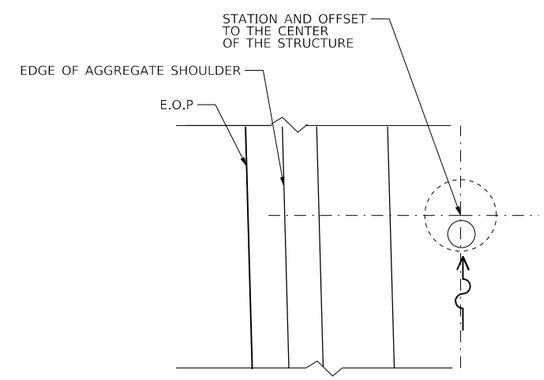
ELEVATION
INLET, CATCH BASIN AND CATCH
BASIN IN DITCH OR SWALE



ELEVATION
MANHOLE, CATCH BASIN
IN ROADWAY



PLAN VIEW
INLET, CATCH BASIN AND MANHOLE
WITH CURB AND GUTTER



PLAN VIEW
INLET AND CATCH BASIN IN DITCH

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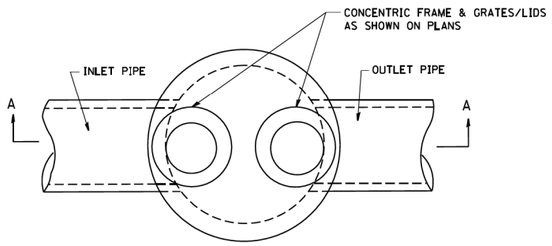
exp. exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - NRM	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - SH	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

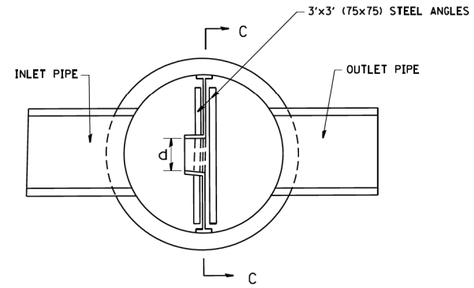
DRAINAGE DETAILS
STRUCTURE STATION AND OFFSETS

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

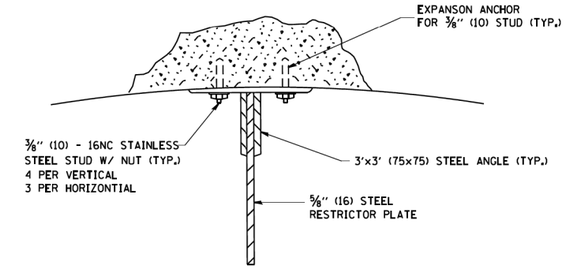
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	48
		CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		



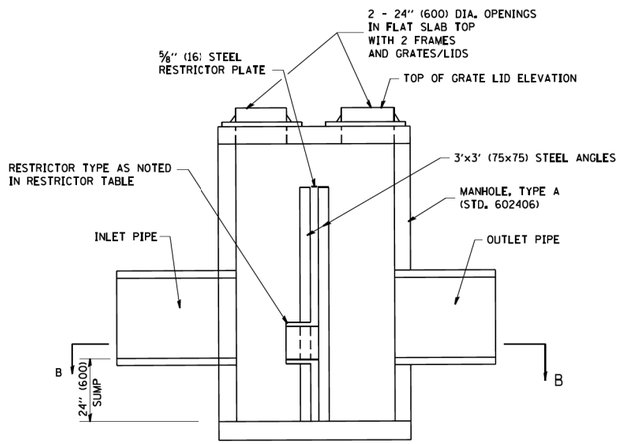
PLAN



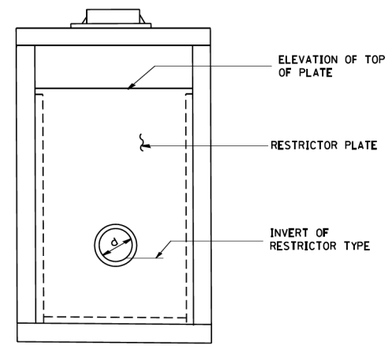
SECTION B-B



ANGLE FASTENER DETAIL



SECTION A-A

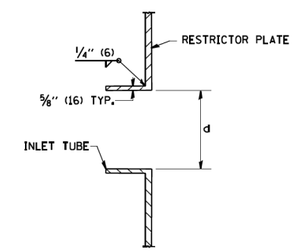


SECTION C-C

NOTE:
SECOND RESTRICTOR TO BE ADDED AT INVERT ELEVATION SPECIFIED DIRECTLY ABOVE LOWER RESTRICTOR OPENING IF SPECIFIED IN PLANS

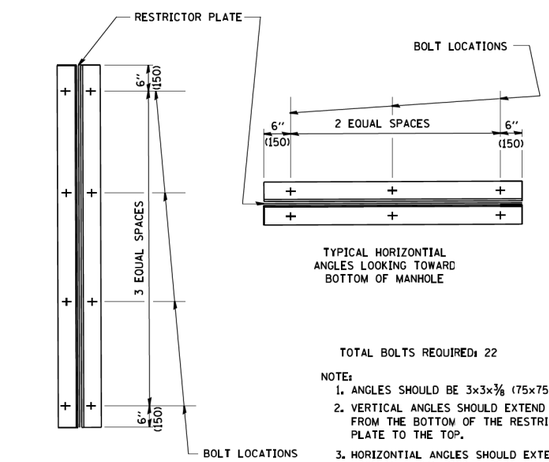
NOTES:

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



INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
DS- 754.2	6'	TYPE 1 FR CL	SHARP EDGED	1.7'Hx5'W	639.28	642.65



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL

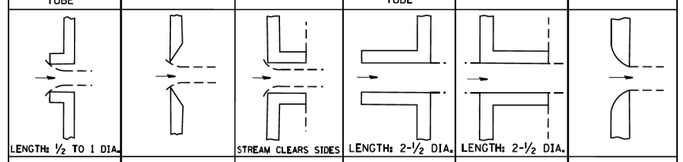
TYPICAL HORIZONTIAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

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

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

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FILE NAME = BM22318-sht-draindetail-02.dgn	USER NAME = GARCIAAZ	DESIGNED - BRO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - NRM	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - SH	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

DRAINAGE DETAILS
RESTRICTOR MANHOLE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	49
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE DESCRIPTION	CENTERLINE			PROPOSED RIM ELEVATION	INVERTS				PIPE CONNECTIONS (Pipe No. - Pipe Size)				DRAWING NO.	PAY ITEM
		STATION	OFFSET	DIR.		NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		
701	INLETS TA T20F&G	402+43.6	26.6	LT	646.09	--	642.00	–	--	–	701 - DIA 12"	–	–	46	60237420
702	INLETS TA T20F&G	403+98.7	40.5	LT	644.56	--	642.37	–	--	–	702 - DIA 12"	–	–	46	60237420
703	INLETS TA T20F&G	405+22.0	40.5	LT	643.70	--	–	641.56	--	–	–	703 - DIA 12"	–	46	60237420
705	CB TA 4 DIA T20F&G	406+37.0	46.3	LT	644.01	--	639.45	639.45	639.45	–	705 - DIA 18"	910 - DIA 18"	707 - DIA 12"	46	60201310
707	CB TA 4 DIA T20F&G	405+75.0	40.5	LT	645.20	--	–	641.32	641.32	–	–	707 - DIA 12"	703 - DIA 12"	46	60201310
708	INLETS TA T20F&G	405+75.0	38.5	RT	643.72	--	–	639.49	--	–	–	708 - DIA 21"	–	46	60237420
721	INLETS TA T20F&G	402+43.8	27.0	RT	646.09	640.17	–	–	--	721 - DIA 15"	–	–	–	46	60237420
722	INLETS TA T20F&G	403+97.7	34.9	RT	644.72	640.13	–	–	--	722 - DIA 15"	–	–	–	46	60237420
723	INLETS TA T20F&G	405+21.6	38.5	RT	643.72	639.95	–	–	--	723 - DIA 18"	–	–	–	46	60237420
724	CB TA 5 DIA T20F&G	406+51.4	40.2	RT	644.00	639.33	–	–	639.33	724 - DIA 21"	–	–	708 - DIA 21"	46	60205010
751	MAN TA 5 DIA T1 LID	402+44.1	9.2	RT	646.40	641.85	640.07	640.07	--	701 - DIA 12"	721 - DIA 15"	751 - DIA 24"	–	46	60221100
752	MAN TA 5 DIA T1 LID	403+98.0	11.9	RT	645.16	642.15	640.00	639.76	639.76	702 - DIA 12"	722 - DIA 15"	752 - DIA 24"	751 - DIA 24"	46	60221100
753	MAN TA 5 DIA T1 LID	405+21.7	12.0	RT	644.29	--	639.80	639.51	639.51	–	723 - DIA 18"	753 - DIA 24"	752 - DIA 24"	46	60221100
754	MAN TA 6 DIA T1 LID	406+52.0	16.8	RT	644.65	639.28	639.28	639.27	639.28	705 - DIA 18"	724 - DIA 21"	754 - DIA 24"	753 - DIA 24"	46	60223800
754.2	MAN TA 6 DIA T1 LID, RESTRICTOR PLATE	406+60.0	16.0	RT	644.65	--	–	639.26	639.26	–	–	EX 24" SS	754 - DIA 24"	46	X6020094
910	CB TA 4 DIA T20F&G	504+94.0	62.3	LT	644.52	639.53	–	–	639.53	911 - DIA 18"	–	–	910 - DIA 18"	47	60201310
911	CB TA 4 DIA T20F&G	506+21.0	51.6	LT	644.52	639.81	639.81	–	--	914 - DIA 18"	911 - DIA 18"	–	–	47	60201310
914	CB TA 4 DIA T11F&G	507+45.5	49.9	LT	644.70	640.08	640.08	–	--	915 - DIA 18"	914 - DIA 18"	–	–	47	60201105
915	CB TA 4 DIA T11F&G	507+75.0	48.5	LT	644.79	640.14	640.14	–	--	916 - DIA 18"	915 - DIA 18"	–	–	47	60201105
916	CB TA 4 DIA T11F&G	508+45.0	44.5	LT	644.98	640.29	640.29	--	--	917 - DIA 18"	916 - DIA 18"	--	--	47	60201105
917	CB TA 4 DIA T11F&G	508+77.6	42.5	LT	644.94	640.37	640.37	--	--	918 - DIA 18"	917 - DIA 18"	--	--	47	60201105
918	CB TA 4 DIA T11F&G	508+88.0	42.1	LT	644.98	640.39	640.39	--	--	919 - DIA 18"	918 - DIA 18"	--	--	47	60201105
919	INLETS TA T11F&G	509+16.0	40.3	LT	645.09	--	640.45	--	--	--	919 - DIA 18"	--	--	47	60236800

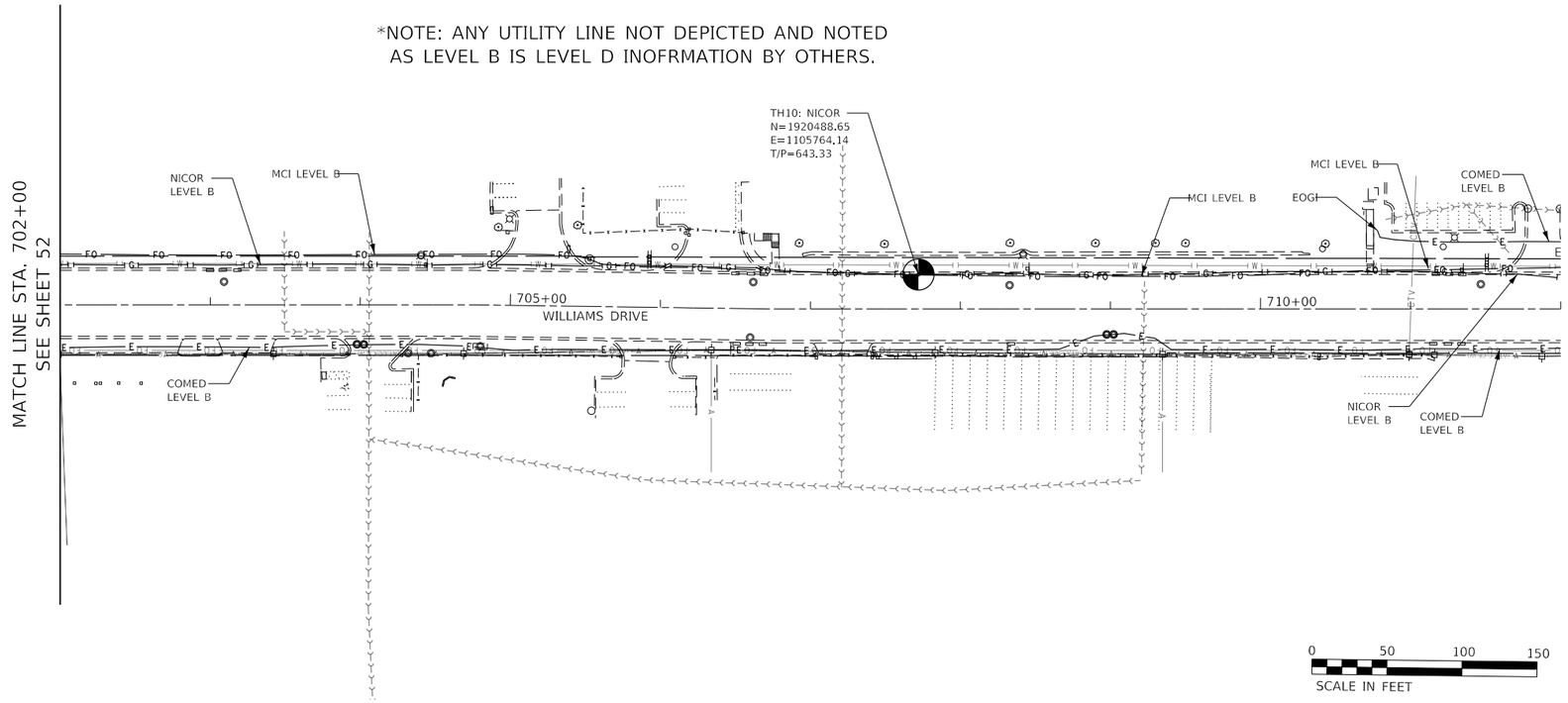
DRAINAGE PIPE SCHEDULE

PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (20800150) (CUYD)	SHEET NO.	FROM STR	TO STR	PAY ITEM
SS- 701	STORM SEW CL A 2 12	DIA - 12"	34	0.43	8.2	46	701	751	550A0340
SS- 702	STORM SEW CL A 112	DIA - 12"	50	0.44	10.5	46	702	752	550A0050
SS- 703	STORM SEW CL A 112	DIA - 12"	54	0.44	13.4	46	703	707	550A0050
SS- 705	STORM SEW CL A 2 18	DIA - 18"	65	0.26	31.6	46	705	754	550A0380
SS- 707	STORM SEW CL A 2 12	DIA - 12"	61	3.05	22.2	46	707	705	550A0340
SS- 708	STORM SEW CL A 121	DIA - 21"	73	0.22	32.7	46	708	724	550A0110
SS- 721	STORM SEW CL A 2 15	DIA - 15"	15	0.66	8.8	46	721	751	550A0360
SS- 722	STORM SEW CL A 2 15	DIA - 15"	20	0.64	9.1	46	722	752	550A0360
SS- 723	STORM SEW CL A 118	DIA - 18"	23	0.64	9.2	46	723	753	550A0090
SS- 724	STORM SEW CL A 2 21	DIA - 21"	26	0.19	13.4	46	724	754	550A0400
SS- 751	STORM SEW CL A 2 24	DIA - 24"	149	0.21	96.0	46	751	752	550A0410
SS- 752	STORM SEW CL A 2 24	DIA - 24"	119	0.21	64.7	46	752	753	550A0410
SS- 753	STORM SEW CL A 2 24	DIA - 24"	128	0.18	69.4	46	753	754	550A0410
SS- 754	STORM SEW CL A 2 24	DIA - 24"	9	0.17	5.2	47	754	754.2	550A0410
SS- 910	STORM SEW WM REQ 18	DIA - 18"	38	0.22	17.6	47	910	705	Z0056612
SS- 911	STORM SEW WM REQ 18	DIA - 18"	128	0.22	60.4	47	911	910	Z0056612
SS- 914	STORM SEW WM REQ 18	DIA - 18"	125	0.22	56.4	47	914	911	Z0056612
SS- 915	STORM SEW WM REQ 18	DIA - 18"	30	0.22	13.3	47	915	914	Z0056612
SS- 916	STORM SEW WM REQ 18	DIA - 18"	70	0.22	31.8	47	916	915	Z0056612
SS- 917	STORM SEW WM REQ 18	DIA - 18"	33	0.22	14.7	47	917	916	Z0056612
SS- 918	STORM SEW WM REQ 18	DIA - 18"	10	0.22	4.6	47	918	917	Z0056612
SS- 919	STORM SEW WM REQ 18	DIA - 18"	28	0.22	12.6	47	919	918	Z0056612

PIPE UNDERDRAINS, TYPE 3

PIPE NO	DRAWING NO.	ALIGNMENT	FROM STA.	FROM OFFSET	FROM STR.	TO STA.	TO OFFSET	TO STR.	LENGTH (FT)
PUD-1	46	BELMONT	402+30	25 LT	--	402+43	25 LT	DS- 701	12
PUD-2	46	BELMONT	402+43	25 LT	DS-701	402+43	26 RT	DS- 721	51
PUD-3	46	BELMONT	402+48	27 RT	DS- 721	403+97	35 RT	DS- 722	149
PUD-4	46	BELMONT	404+3	35 RT	DS- 722	405+20	38 RT	DS- 723	118
PUD-5	46	BELMONT	405+23	38 RT	DS- 723	406+48	42 RT	DS- 724	125
PUD-6	46	BELMONT	403+74	42 LT	--	403+95	42 LT	DS-702	21
PUD-7	46	BELMONT	404+00	40 LT	DS- 702	405+20	40 LT	DS- 703	120
PUD-8	46	BELMONT	405+25	40 LT	DS- 703	405+74	40 LT	DS- 707	49
PUD-9	46	BELMONT	405+78	40 LT	DS- 707	406+38	44 LT	DS- 705	60
PUD-10	46	BELMONT	405+50	40 LT	PUD-8	405+50	39 RT	PUD-5	78

*NOTE: ANY UTILITY LINE NOT DEPICTED AND NOTED AS LEVEL B IS LEVEL D INOFRMATION BY OTHERS.



UTILITY LINE LEGEND

T	*EXISTING UNDERGROUND TELEPHONE*
W	*EXISTING UNDERGROUND WATER*
E	*EXISTING UNDERGROUND ELECTRIC*
G	*EXISTING UNDERGROUND GAS*
CTV	*EXISTING UNDERGROUND CABLE TV*
FO	*EXISTING UNDERGROUND FIBER OPTIC*
EOGI	*END OF SURFACE GEOPHYSICAL INFORMATION*
	QUALITY LEVEL A (QLA) TEST HOLE
T/P	*TOP OF UTILITY PIPE*

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN DESIGNATED OR LOCATED IN ACCORDANCE WITH ASCE 38-02 QUALITY LEVELS A (QLA) AND B (QLB). OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 31ST OF DECEMBER, A.D., 2019 AND THE 31ST DAY OF AUGUST, A.D., 2020.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS XXTH DAY OF NOVEMBER A.D., 2020. CHICAGO, IL.

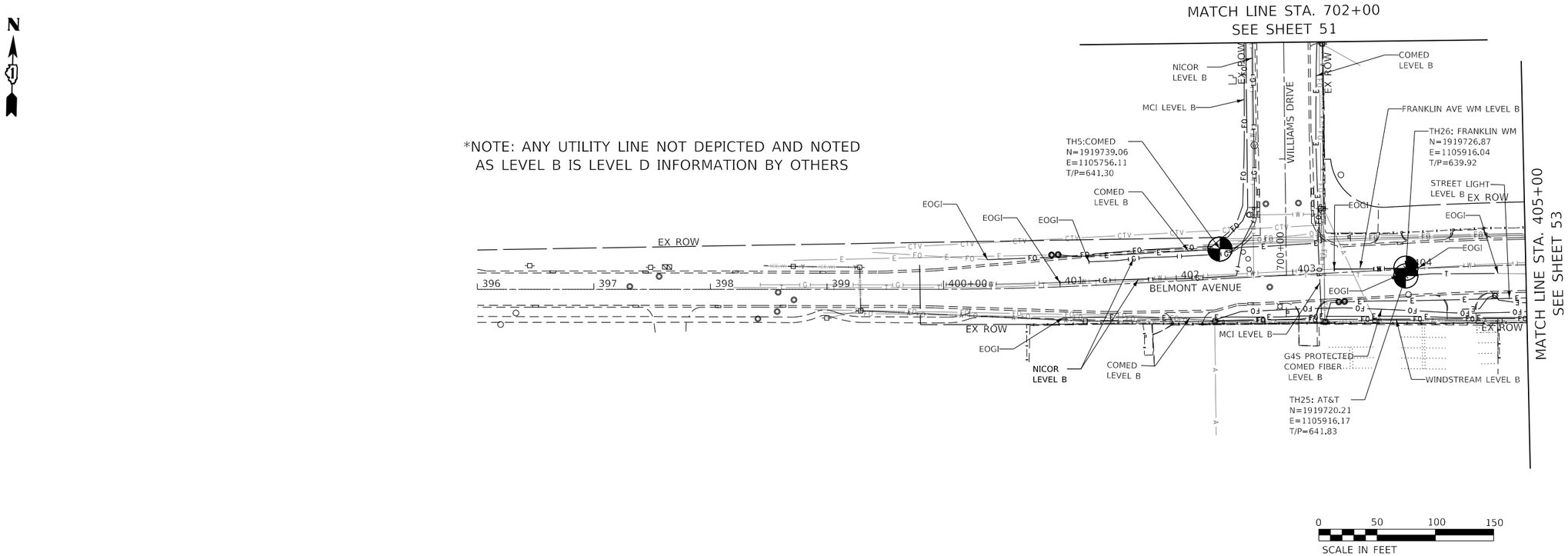
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2023

DESIGN FIRM NO._____

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

MODEL: Default
FILE NAME: pw:\\exp-pw.bentley.com:exp-pw-01\Documents\Projects\CH\00244802-A\1800 CADD Desfgn\804 Belmont-Mannheim\804.12 Utilities\Sheet\D122318-sht-SUE-05.dgn

FILE NAME = D122318-sht-SUE-05.dgn	USER NAME = GARCIAAZ	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FRANKLIN AVENUE (SECTION 17-00083-00-PV) JOB: D-91-223-18	SUBSURFACE UTILITY ENGINEERING WILLIAMS DRIVE	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
AMERICAN SURVEYING & ENGINEERING, P.C.		DRAWN - JM	REVISED -			1373	17-00083-02-PV	COOK	157 / 51
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SR	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. 702+00 TO STA. 712+00			ILLINOIS FED. AID PROJECT	



UTILITY LINE LEGEND

T	*EXISTING UNDERGROUND TELEPHONE*
W	*EXISTING UNDERGROUND WATER*
E	*EXISTING UNDERGROUND ELECTRIC*
G	*EXISTING UNDERGROUND GAS*
CTV	*EXISTING UNDERGROUND CABLE TV*
FO	*EXISTING UNDERGROUND FIBER OPTIC*
EOGI	*END OF SURFACE GEOPHYSICAL INFORMATION*
	QUALITY LEVEL A (QLA) TEST HOLE
T/P	*TOP OF UTILITY PIPE*

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN DESIGNATED OR LOCATED IN ACCORDANCE WITH ASCE 38-02 QUALITY LEVELS A (QLA) AND B (QLB). OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 31ST OF DECEMBER, A.D., 2019 AND THE 31ST DAY OF AUGUST, A.D., 2020.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS XXTH DAY OF NOVEMBER A.D., 2020. CHICAGO, IL.

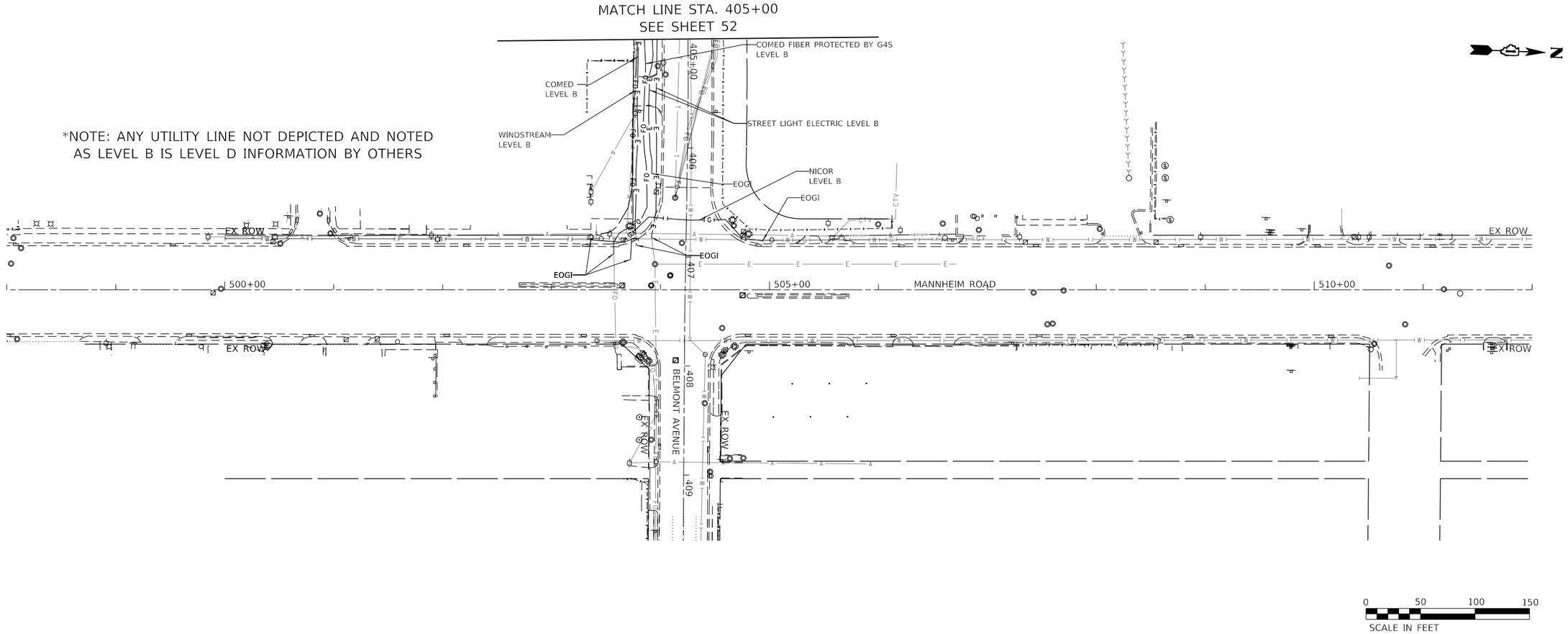
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL
ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2023

DESIGN FIRM NO._____

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

MODEL: Default
FILE NAME: pw:\\texp-pw.bentley.com:texp-pw-01\Documents\Projects\CHI0024802-A\1800 CADD Design\804 Belmont-Mannheim\804-12 Utilities\Sheet\D122318-sht-SUE-06.dgn

FILE NAME = D122318-sht-SUE-06.dgn	USER NAME = GARCIAAZ	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FRANKLIN AVENUE (SECTION 17-00083-00-PV) JOB: D-91-223-18	SUBSURFACE UTILITY ENGINEERING BELMONT AVENUE					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JM	REVISED -							1373	17-00083-02-PV	COOK	157	52
AMERICAN SURVEYING & ENGINEERING, P.C.	PLOT SCALE = 100.0000 ' / in.	CHECKED - SR	REVISED -									CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 397+42 TO STA. 405+00			ILLINOIS	FED. AID PROJECT	



UTILITY LINE LEGEND

T	*EXISTING UNDERGROUND TELEPHONE*
W	*EXISTING UNDERGROUND WATER*
E	*EXISTING UNDERGROUND ELECTRIC*
G	*EXISTING UNDERGROUND GAS*
CTV	*EXISTING UNDERGROUND CABLE TV*
FO	*EXISTING UNDERGROUND FIBER OPTIC*
EOGI	*END OF SURFACE GEOPHYSICAL INFORMATION*
	QUALITY LEVEL A (QLA) TEST HOLE
T/P	*TOP OF UTILITY PIPE*

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN DESIGNATED OR LOCATED IN ACCORDANCE WITH ASCE 38-02 QUALITY LEVELS A (QLA) AND B (QLB). OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 31ST OF DECEMBER, A.D., 2019 AND THE 31ST DAY OF AUGUST, A.D., 2020.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS XXTH DAY OF NOVEMBER A.D., 2020. CHICAGO, IL.

STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2023

DESIGN FIRM NO._____

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

MODEL: Default
FILE NAME: pw:\\texp-pw.bentley.com:texp-pw-01\Documents\Projects\CHI0024802-A\1800 CADD Design\804 Belmont-Mannheim\804-12 Utilities\Sheet\D122318-sht-SUE-07.dgn

FILE NAME = D122318-sht-SUE-07.dgn	USER NAME = GARCIAAZ	DESIGNED - MM	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** FRANKLIN AVENUE (SECTION 17-00083-00-PV) JOB: D-91-223-18	**SUBSURFACE UTILITY ENGINEERING MANNHEIM ROAD**				F.A.U RTE. 1373	SECTION 17-00083-02-PV	COUNTY COOK	TOTAL SHEETS 157	SHEET NO. 53
AMERICAN SURVEYING & ENGINEERING, P.C.		DRAWN - JM	REVISED -								CONTRACT NO. 61K16		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SR	REVISED -		SCALE: 1"=50'	SHEET OF SHEETS	STA. 497+90	TO STA. 510+65					
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -								ILLINOIS	FED. AID PROJECT	

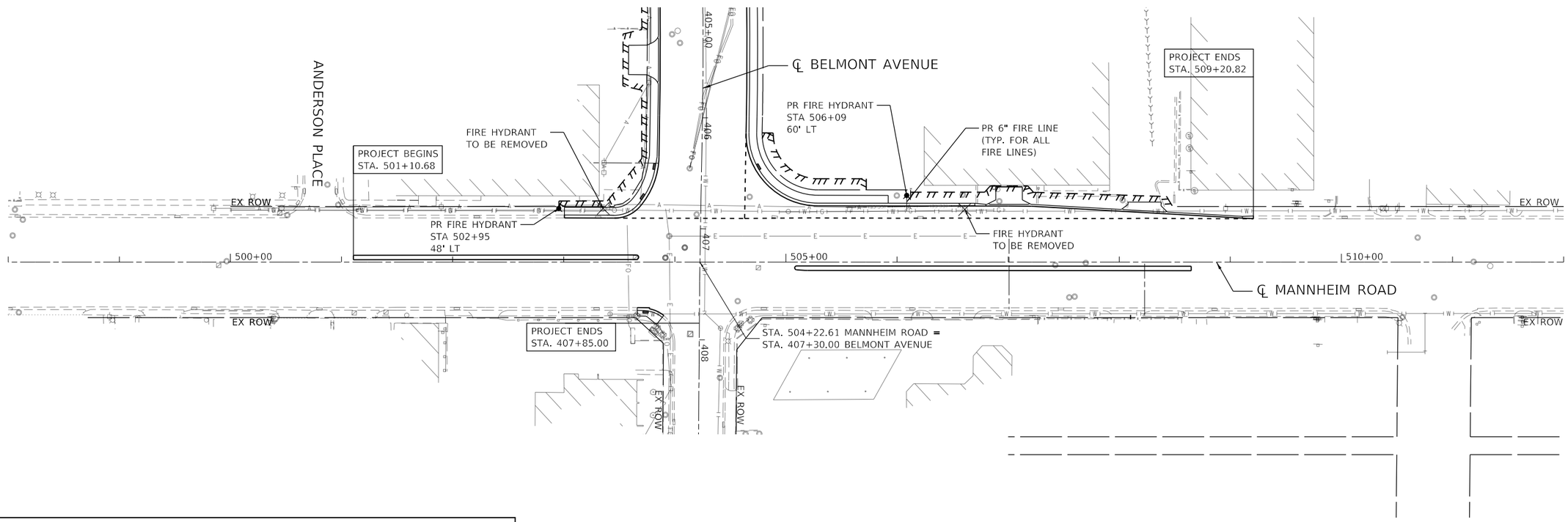
NOTES:

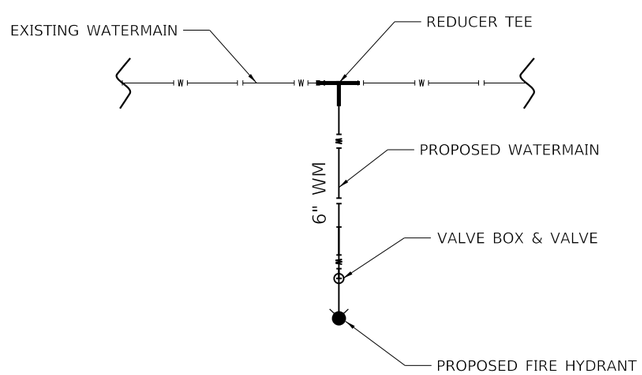
1. CONTRACTOR SHALL INFORM THE VILLAGE 72 HOURS BEFORE THE START OF ANY WORK ON THE WATERMAIN SYSTEM.
2. CONTRACTOR SHALL PROVIDE FIRE LINE OR DOMESTIC LINE UP TO THE NEW VALVE BOX NEAR ROW LINE AS SHOWN ON PLANS.
3. LOCATIONS OF THE PROPOSED FIRE HYDRANTS SHALL BE REVIEWED AND APPROVED BY THE VILLAGE OF FRANKLIN PARK.

CODE NO.	ITEM	UNIT	QUANTITY
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2
X5640177	FIRE HYDRANT WITH 6" VALVE AND VALVE BOX	EACH	2

N

0 50 100 150
SCALE IN FEET





TYPICAL FIRE HYDRANT CONNECTION TO MANNHEIM WATERMAIN

N.T.S.

MODEL: Default
FILE NAME: pw:\\exp-pw.bentley.com:exp-pw-01\Documents\Projects\CHI\00244802-A\1800 CADD Design\804 Belmont-Mannheim\804-12 Utilities\Sheet\BM22318-sht-firehydrant.dgn

FILE NAME = BM22318-sht-firehydrant.dgn	USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - AZ	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE HYDRANTS
MANNHEIM ROAD

SCALE: 1" = 50' SHEET OF SHEETS STA. 498+00 TO STA. 512+00

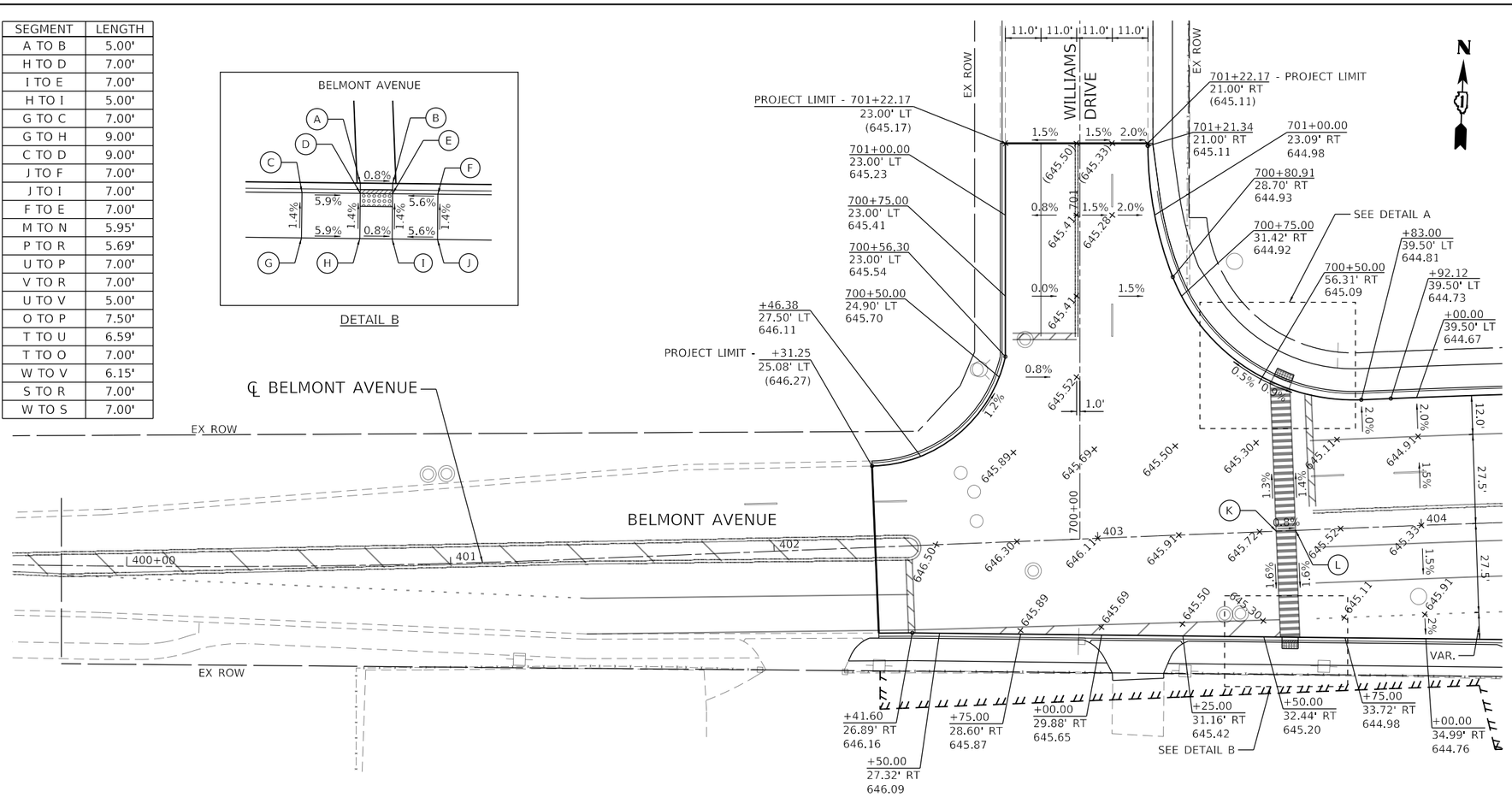
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	54

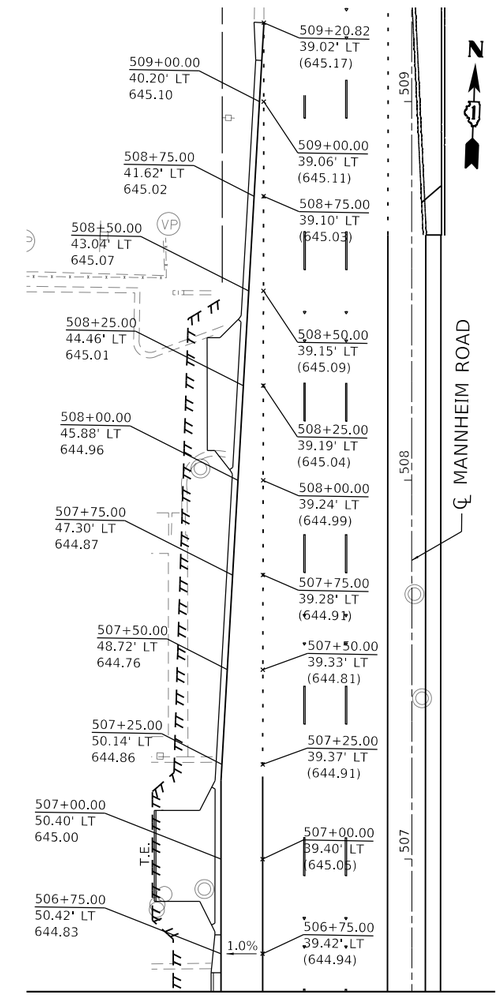
CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT

SEGMENT	LENGTH
A TO B	5.00'
H TO D	7.00'
I TO E	7.00'
H TO I	5.00'
G TO C	7.00'
G TO H	9.00'
C TO D	9.00'
J TO F	7.00'
J TO I	7.00'
F TO E	7.00'
M TO N	5.95'
P TO R	5.69'
U TO P	7.00'
V TO R	7.00'
U TO V	5.00'
O TO P	7.50'
T TO U	6.59'
T TO O	7.00'
W TO V	6.15'
S TO R	7.00'
W TO S	7.00'

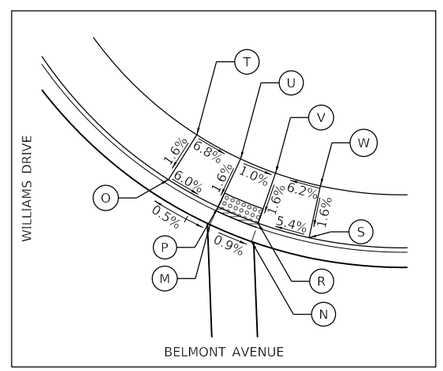
DETAIL B





MATCHLINE STA 506+64.98 -- SEE SHEET 56

POINT	STATION	OFFSET	ELEVATION
A	403+55.62	32.73' RT	645.15
B	403+60.62	32.98' RT	645.11
C	403+46.55	33.85' RT	645.67
D	403+55.54	34.31' RT	645.14
E	403+60.54	34.56' RT	645.10
F	403+67.53	34.92' RT	645.49
G	403+46.20	40.84' RT	645.77
H	403+55.18	41.30' RT	645.24
I	403+60.18	41.55' RT	645.20
J	403+67.17	41.91' RT	645.59
K	403+55.12	0.00' RT	645.68
L	403+61.12	0.00' RT	645.63
M	403+55.44	46.20' LT	645.06
N	403+60.86	43.74' LT	645.01
O	403+50.21	52.37' LT	645.45
P	403+56.63	48.50' LT	645.00
R	403+61.81	46.14' LT	644.95
S	403+68.46	43.96' LT	645.33
T	403+54.21	58.11' LT	645.56
U	403+59.84	54.71' LT	645.11
V	403+64.39	52.64' LT	645.06
W	403+70.23	50.73' LT	645.44



DETAIL A

NOTES:
1) CALL-OUTS WITH PARTIAL STATIONS ARE BASED OFF THE PROPOSED ALIGNMENT OF BELMONT AVENUE.
2) CALL-OUTS WITH FULL STATIONS ARE BASED OFF THE EXISTING ALIGNMENT OF WILLIAMS STREET.
3) ELEVATIONS ARE AT 25' INTERVALS UNLESS NOTED OTHERWISE.

LEGEND

XXX+XX.XX -	STATION
XX.XX LT/RT -	OFFSET
XXX.XX	PROPOSED PAVEMENT ELEVATION
(XXX.XX)	EXISTING PAVEMENT ELEVATION
	DETECTABLE WARNINGS
	DEPRESSED CURB

MODEL: Default
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FILE NAME = BM22318-sht-intersec-05.dgn	USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
		DRAWN - AG	REVISED -
exp. exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY	PLOT SCALE = 40.0000 ' / in.	CHECKED - --	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

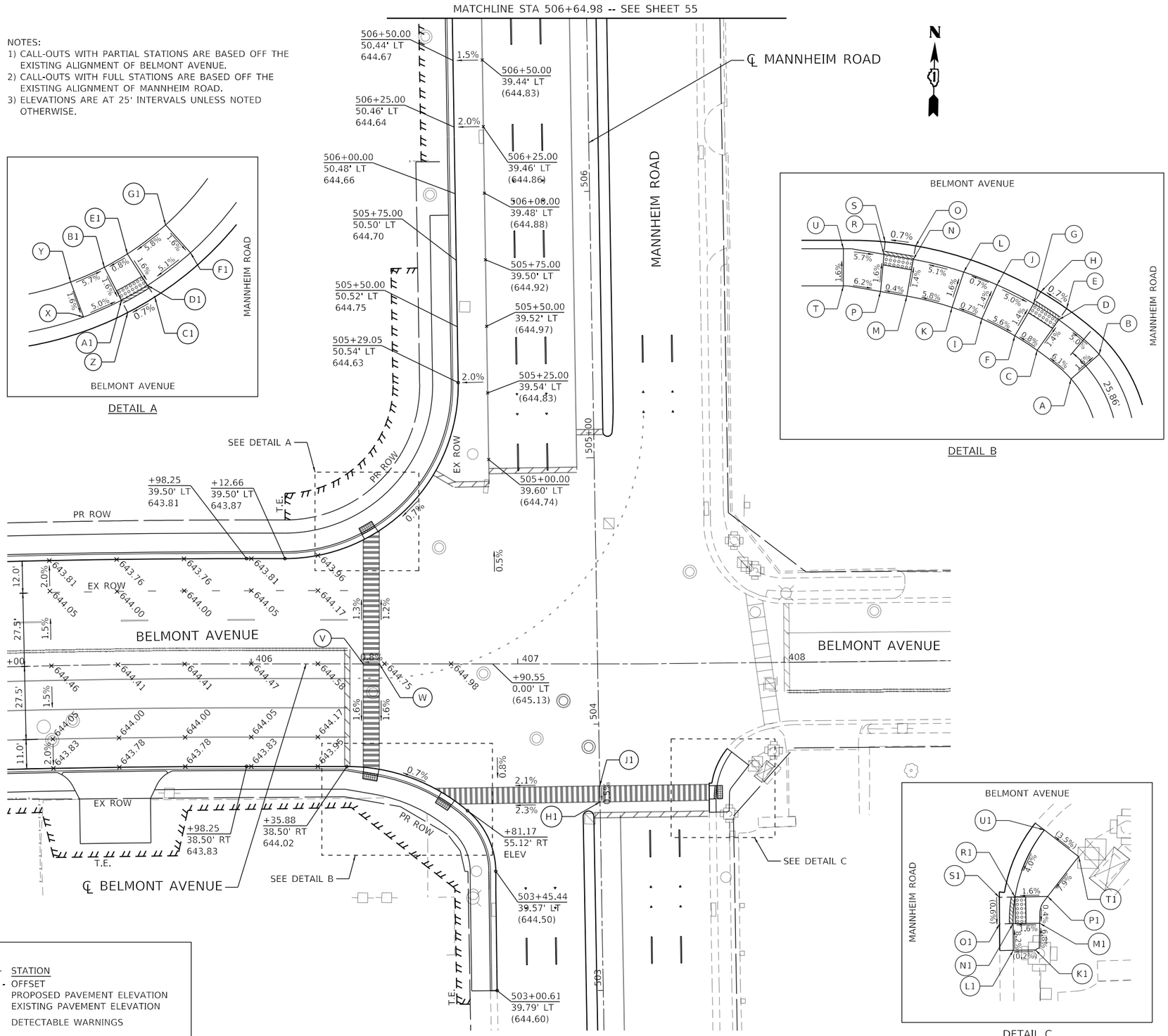
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL
WILLIAMS DRIVE AND BELMONT AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	55
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

NOTES:
1) CALL-OUTS WITH PARTIAL STATIONS ARE BASED OFF THE EXISTING ALIGNMENT OF BELMONT AVENUE.
2) CALL-OUTS WITH FULL STATIONS ARE BASED OFF THE EXISTING ALIGNMENT OF MANNHEIM ROAD.
3) ELEVATIONS ARE AT 25' INTERVALS UNLESS NOTED OTHERWISE.



DETAIL A

DETAIL B

DETAIL C

POINT	STATION	OFFSET	ELEVATION
A	406+77.10	64.53' RT	644.85
B	406+82.36	59.91' RT	644.74
C	406+70.73	59.15' RT	644.34
D	406+74.76	53.43' RT	644.24
E	406+76.26	51.32' RT	644.30
F	406+66.53	56.44' RT	644.30
G	406+70.08	50.40' RT	644.20
H	406+71.39	48.18' RT	644.26
I	406+60.35	53.26' RT	644.69
J	406+63.19	46.86' RT	644.59
K	406+54.75	51.11' RT	644.65
L	406+56.94	44.46' RT	644.54
M	406+46.28	48.99' RT	644.14
N	406+47.49	42.09' RT	644.04
O	406+47.93	39.55' RT	644.10
P	406+41.34	48.13' RT	644.12
R	406+41.98	41.14' RT	644.01
S	406+42.19	38.79' RT	644.06
T	406+34.36	40.08' RT	644.56
U	406+34.36	47.08' RT	644.45
V	406+42.07	0.00' RT	644.69
W	406+48.07	0.00' RT	644.74
X	406+34.20	45.92' LT	644.41
Y	406+31.79	52.49' LT	644.52
Z	406+42.50	46.75' LT	644.08
A1	406+41.31	49.05' LT	644.02
B1	406+38.10	55.27' LT	644.13
C1	406+47.58	49.68' LT	644.12
D1	406+46.19	51.86' LT	644.06
E1	406+42.43	57.76' LT	644.17
F1	406+54.28	57.99' LT	644.58
G1	406+49.61	63.20' LT	644.69
H1	407+30.89	51.84' RT	645.53
J1	407+30.79	45.84' RT	645.56
K1	503+66.18	47.68' RT	(644.97)
L1	503+66.18	43.53' RT	(644.96)
M1	503+71.18	48.57' RT	644.63
N1	503+71.18	43.55' RT	644.55
O1	503+71.18	41.02' RT	(644.60)
P1	503+76.18	50.14' RT	644.66
R1	503+76.18	44.01' RT	644.56
S1	503+76.18	41.06' RT	(644.63)
T1	503+83.54	56.10' RT	(645.41)
U1	503+88.66	49.72' RT	(645.12)

SEGMENT	LENGTH
A TO B	7.00'
A TO C	8.35'
B TO D	10.00'
C TO D	7.00'
C TO F	5.00'
F TO G	7.00'
E TO H	5.79'
I TO F	6.95'
J TO G	7.75'
I TO J	7.00'
I TO K	6.00'
J TO L	6.70'
K TO L	7.00'
K TO M	8.85'
L TO N	9.75'
M TO N	7.00'
M TO P	5.00'
P TO R	7.00'
O TO S	5.79'
T TO P	7.07'
T TO U	7.00'
U TO R	7.69'
Y TO X	7.00'
Y TO B1	6.90'
X TO A1	7.77'
B1 TO A1	7.00'
E1 TO B1	5.00'
E1 TO D1	7.00'
C1 TO Z	5.87'
G1 TO E1	9.02'
G1 TO F1	7.00'
F1 TO D1	10.16'
K1 TO L1	4.15'
K1 TO M1	5.00'
L1 TO N1	5.00'
M1 TO N1	5.09'
M1 TO P1	5.43'
N1 TO R1	5.03'
O1 TO S1	5.00'
P1 TO R1	6.19'
P1 TO T1	9.50'
R1 TO U1	13.88'
T1 TO U1	8.18'

LEGEND

XXX+XX.XX -	STATION
XX.XX LT/RT -	OFFSET
XXX.XX	PROPOSED PAVEMENT ELEVATION
(XXX.XX)	EXISTING PAVEMENT ELEVATION
	DETECTABLE WARNINGS
	DEPRESSED CURB

MODEL: Default
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FILE NAME = BM22318-sht-intersec-06.dgn	USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - AG	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - --	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

INTERSECTION DETAIL
MANNHEIM ROAD AND BELMONT AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	56

CONTRACT NO. 61K16

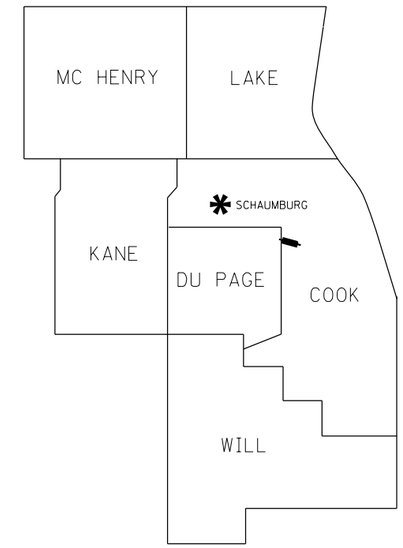
ILLINOIS | FED. AID PROJECT

PARCEL NO.	OWNER	SHEET NO.	RECORDED DOC NO.
~~0ML0024~~	~~SKY VIEW PROPERTIES LLC~~	~~5,6~~	~~2209813114~~
~~0ML0025~~	~~FRANKLIN AVE BUILDING, LLC~~	~~5~~	~~2206907100~~
~~0ML0025TEA~~	~~FRANKLIN AVE BUILDING, LLC~~	~~5~~	~~2206857003~~
~~0ML0030~~	~~EI PROP HOLDINGS LLC-MANNHEIM~~	~~7~~	~~2206907132~~
0ML0030TE	EI PROP HOLDINGS LLC-MANNHEIM	7,8	2206857005
0ML0032TE	W.W. GRAINGER, INC.	8	2136322023
0ML0034TE	3220 MANNHEIM LLC	9	2207722019
~~0ML0044~~	~~ANTHONY QUARANTA, ROCCO QUARANTA, GINA WHITE, LICIA LIERMAN, ANGELA BONANNO~~	~~9~~	~~2016739116~~
0ML0044TE	VILLAGE OF FRANKLIN PARK	9	DONATION
~~0ML0045A~~	~~VILLAGE OF FRANKLIN PARK~~	~~9~~	~~2333428001~~
~~0ML0045B~~	~~CIRCUIT CRT OF COOK COUNTY~~	~~9~~	~~2231845279~~
0ML0045TE	VILLAGE OF FRANKLIN PARK	9	2333428002
~~0ML0046~~	~~3220 MANNHEIM LLC~~	~~9~~	
~~0ML0046TE~~	~~3220 MANNHEIM LLC~~	~~9~~	
~~0ML0035~~	~~JAMES CAMPBELL COMPANY LLC, A DELAWARE LIMITED LIABILITY COMPANY~~	~~10~~	~~2205639194~~
0ML0040TE	ATW PROPERTIES LLC	10	217833154
~~0ML0041~~	~~PARKWAY BANK & TRUST COMPANY AS TRUSTEE UNDER TRUST NO. 14135~~	~~11~~	~~2323006036~~
0ML0041TE	PARKWAY BANK & TRUST COMPANY AS TRUSTEE UNDER TRUST NO. 14135	11	2323006037

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS
TEMPORARY EASEMENT RENEWALS

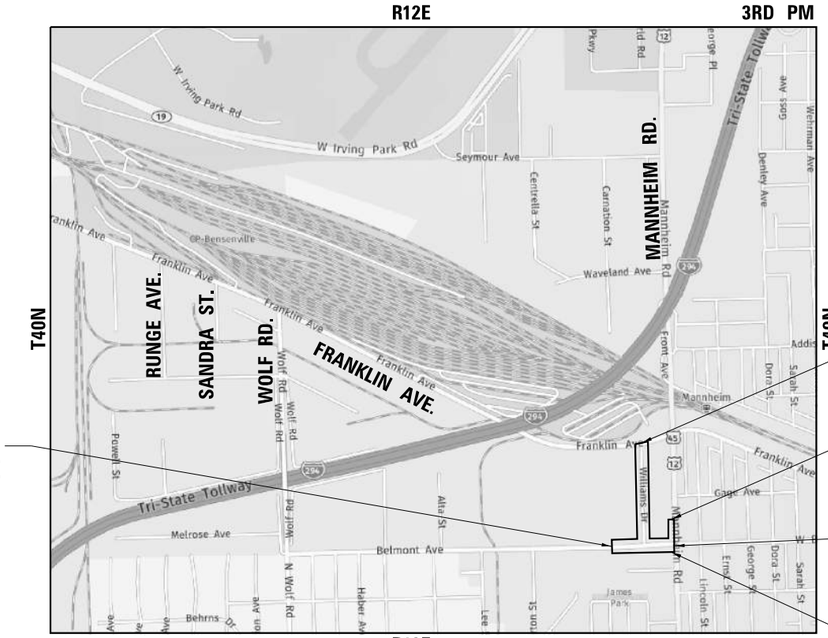
ROUTE: FAU ROUTE 3533 (FRANKLIN AVENUE)
SECTION: 17–00083–00–PV
COUNTY: COOK
LIMITS: RUNGE AVENUE TO MANNHEIM ROAD
JOB NO.: R–90–006–20



DISTRICT HEADQUARTERS: –
LOCATION OF SECTION INDICATED THUS: –

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

R12E 3RD PM



R12E

LOCATION MAP

PROJECT BEGINS BELMONT AVENUE STA. 402+31.25

PROJECT ENDS WILLIAMS DR. STA. 713+02.14

PROJECT ENDS MANNHEIM ROAD STA. 509+20.82

PROJECT ENDS BELMONT AVENUE STA. 407+85.00

PROJECT BEGINS MANNHEIM ROAD STA. 501+10.68

APPROVED
By douglas.mcclintic at 2:23 pm, May 01, 2025

IDOT USE ONLY

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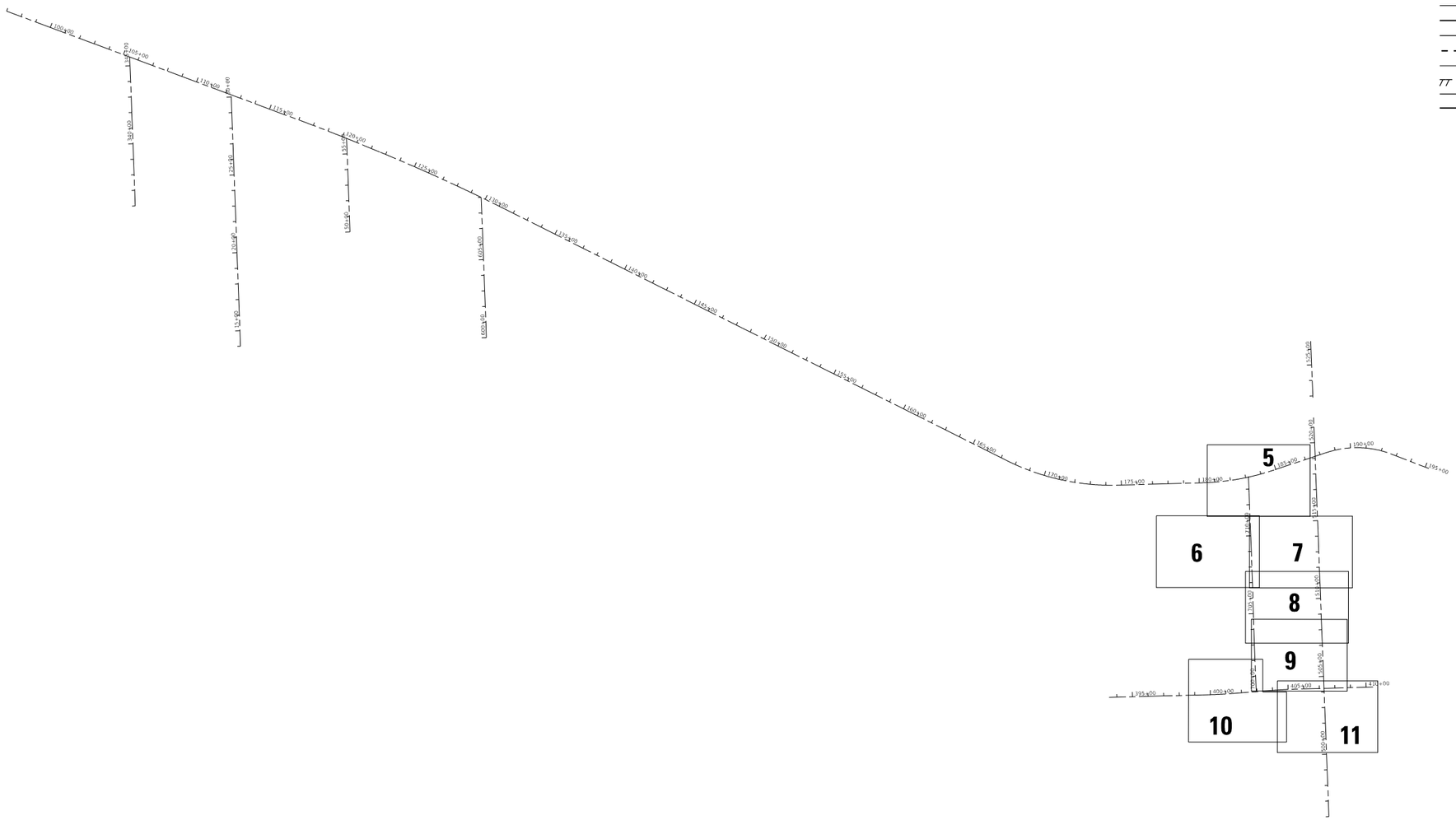
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

PARTS OF SECTIONS 19, 20, 21 AND 29, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

SECTION CORNER (9 10 16 15)

QUARTER SECTION CORNER (16 15)

N

SCALE IN FEET: 0 400 800

	SECTION / QUARTER SECTION LINE
	PLATTED LOT LINES
P	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	EXISTING CENTERLINE
	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING ACCESS CONTROL LINE
AC	PROPOSED ACCESS CONTROL LINE
129.32′	MEASURED DIMENSION
129.32′ (COMP)	COMPUTED DIMENSION
(129.32′)	RECORDED DIMENSION
	EXISTING BUILDING

ABBREVIATIONS:

P.O.C. - POINT OF COMMENCEMENT
P.O.B. - POINT OF BEGINNING

SURVEY NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES DIVIDE GRID DISTANCES SHOWN BY THE COMBINED FACTOR OF 0.99996489.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".

TREE, BOLLARD, SPLICE BOX, POWER POLE, WATER VALVE
LIGHT POLE, MANHOLE, HANDHOLE, SIGN, HYDRANT

○ IRON PIPE OR ROD FOUND — ⊕ "MAG" NAIL SET
+ CUT CROSS FOUND OR SET — ● 5 / 8" REBAR SET

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, JACK A. ZLOTEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR LICENSE NO. 035-003186, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN PART OF SECTIONS 19, 20, 21 AND 28 TOWNSHIP 40 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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

FIELD WORK COMPLETED: 06/27/2020

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Chicago, IL 60601-5924
U.S.A.
www.exp.com
PROFESSIONAL DESIGN FIRM NO. 184-006387

TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST.	COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29	JOB NO.: R-90-006-20
STATION	TO STATION
SCALE: 1"=400′	SHEET 2 OF 11

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:24 pm, May 01, 2025

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

REVISION DATE: 4/21/2025 REVISION MADE BY: A.G.

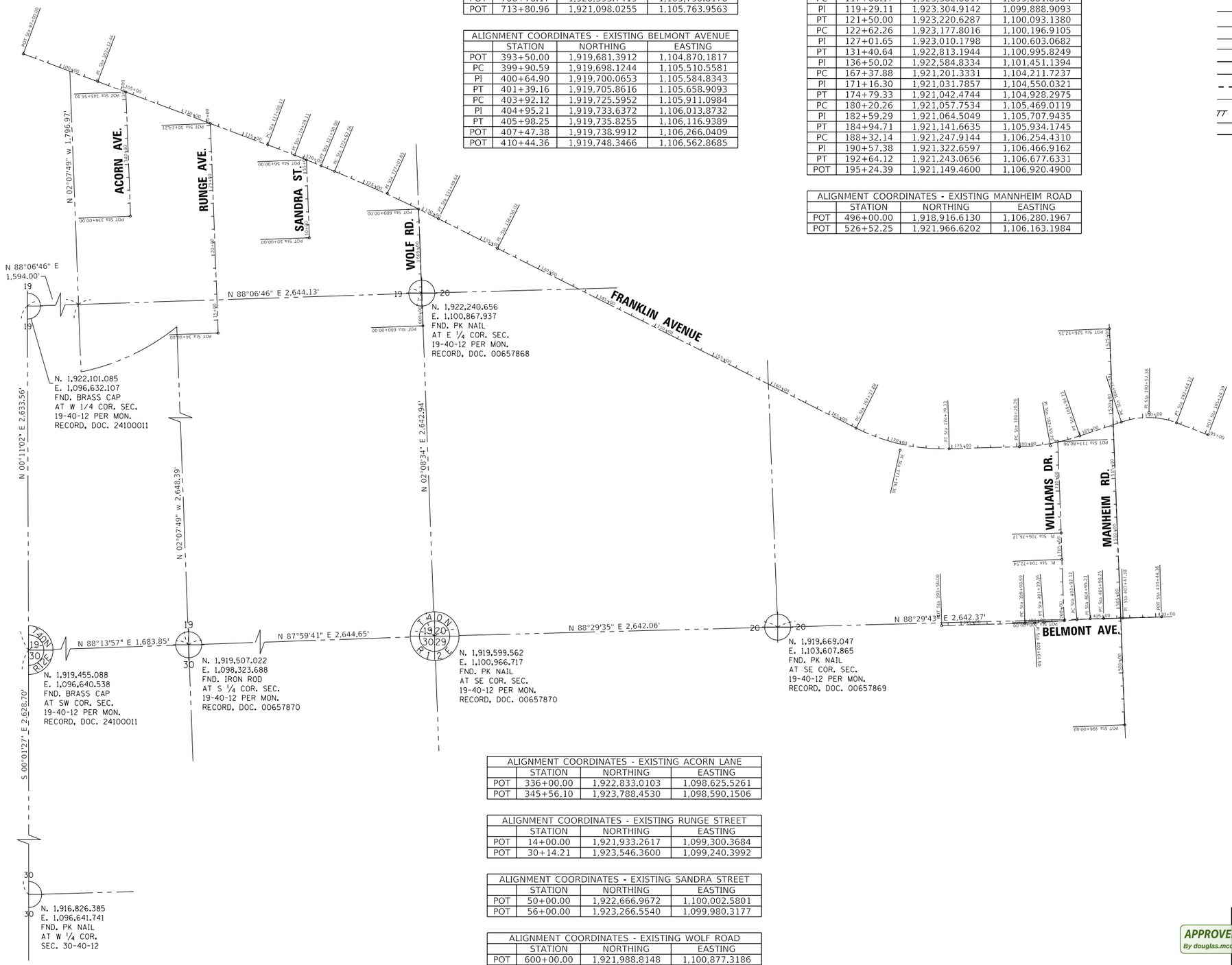
PARTS OF SECTIONS 19, 20, 21 AND 29, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

ALIGNMENT COORDINATES - EXISTING WILLIAMS DRIVE			
	STATION	NORTHING	EASTING
POT	700+00.00	1,919,717.9752	1,105,813.7178
POT	704+72.54	1,920,190.1694	1,105,795.7370
POT	706+76.17	1,920,393.7419	1,105,790.8176
POT	713+80.96	1,921,098.0255	1,105,763.9563

ALIGNMENT COORDINATES - EXISTING BELMONT AVENUE			
	STATION	NORTHING	EASTING
POT	393+50.00	1,919,681.3912	1,104,870.1817
PC	399+90.59	1,919,698.1244	1,105,510.5581
PI	400+64.90	1,919,700.0653	1,105,584.8343
PT	401+39.16	1,919,705.8616	1,105,658.9093
PC	403+92.12	1,919,725.5952	1,105,911.0984
PI	404+95.21	1,919,733.6372	1,106,013.8732
PT	405+98.25	1,919,735.8255	1,106,116.9389
POT	407+47.38	1,919,738.9912	1,106,266.0409
POT	410+44.36	1,919,748.3466	1,106,562.8685

ALIGNMENT COORDINATES - EXISTING FRANKLIN AVENUE			
	STATION	NORTHING	EASTING
POT	97+00.00	1,924,082.9596	1,097,799.9923
PI	103+12.44	1,923,868.9880	1,098,373.8380
PC	117+08.17	1,923,382.0017	1,099,681.8564
PI	119+29.11	1,923,304.9142	1,099,888.9093
PT	121+50.00	1,923,220.6287	1,100,093.1380
PC	122+62.26	1,923,177.8016	1,100,196.9105
PI	127+01.65	1,923,010.1798	1,100,603.0682
PT	131+40.64	1,922,813.1944	1,100,995.8249
PI	136+50.02	1,922,584.8334	1,101,451.1394
PC	167+37.88	1,921,201.3331	1,104,211.7237
PI	171+16.30	1,921,031.7857	1,104,550.0321
PT	174+79.33	1,921,042.4744	1,104,928.2975
PC	180+20.26	1,921,057.7534	1,105,469.0119
PI	182+59.29	1,921,064.5049	1,105,707.9435
PT	184+94.71	1,921,141.6635	1,105,934.1745
PC	188+32.14	1,921,247.9144	1,106,254.4310
PI	190+57.38	1,921,322.6597	1,106,466.9162
PT	192+64.12	1,921,243.0656	1,106,677.6331
POT	195+24.39	1,921,149.4600	1,106,920.4900

ALIGNMENT COORDINATES - EXISTING MANNHEIM ROAD			
	STATION	NORTHING	EASTING
POT	496+00.00	1,918,916.6130	1,106,280.1967
POT	526+52.25	1,921,966.6202	1,106,163.1984



ALIGNMENT COORDINATES - EXISTING ACORN LANE			
	STATION	NORTHING	EASTING
POT	336+00.00	1,922,833.0103	1,098,625.5261
POT	345+56.10	1,923,788.4530	1,098,590.1506

ALIGNMENT COORDINATES - EXISTING RUNGE STREET			
	STATION	NORTHING	EASTING
POT	14+00.00	1,921,933.2617	1,099,300.3684
POT	30+14.21	1,923,546.3600	1,099,240.3992

ALIGNMENT COORDINATES - EXISTING SANDRA STREET			
	STATION	NORTHING	EASTING
POT	50+00.00	1,922,666.9672	1,100,002.5801
POT	56+00.00	1,923,266.5540	1,099,980.3177

ALIGNMENT COORDINATES - EXISTING WOLF ROAD			
	STATION	NORTHING	EASTING
POT	600+00.00	1,921,988.8148	1,100,877.3186
POT	609+00.00	1,922,888.1838	1,100,843.6225

LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
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EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32′ MEASURED DIMENSION
129.32′ (COMP) COMPUTED DIMENSION
(129.32′) RECORDED DIMENSION
EXISTING BUILDING

N

0 400 800
SCALE IN FEET

ABBREVIATIONS:

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IRON PIPE OR ROD FOUND — "MAG" NAIL SET
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STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

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)SS
COUNTY OF COOK)

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DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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FIELD WORK COMPLETED: 06/27/2020

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U.S.A.
www.exp.com
PROFESSIONAL DESIGN FIRM NO. 184-006387

TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. — COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 — JOB NO.: R-90-006-20
STATION — TO STATION
SCALE: 1"=400′ — SHEET 3 OF 11

IDOT USE ONLY

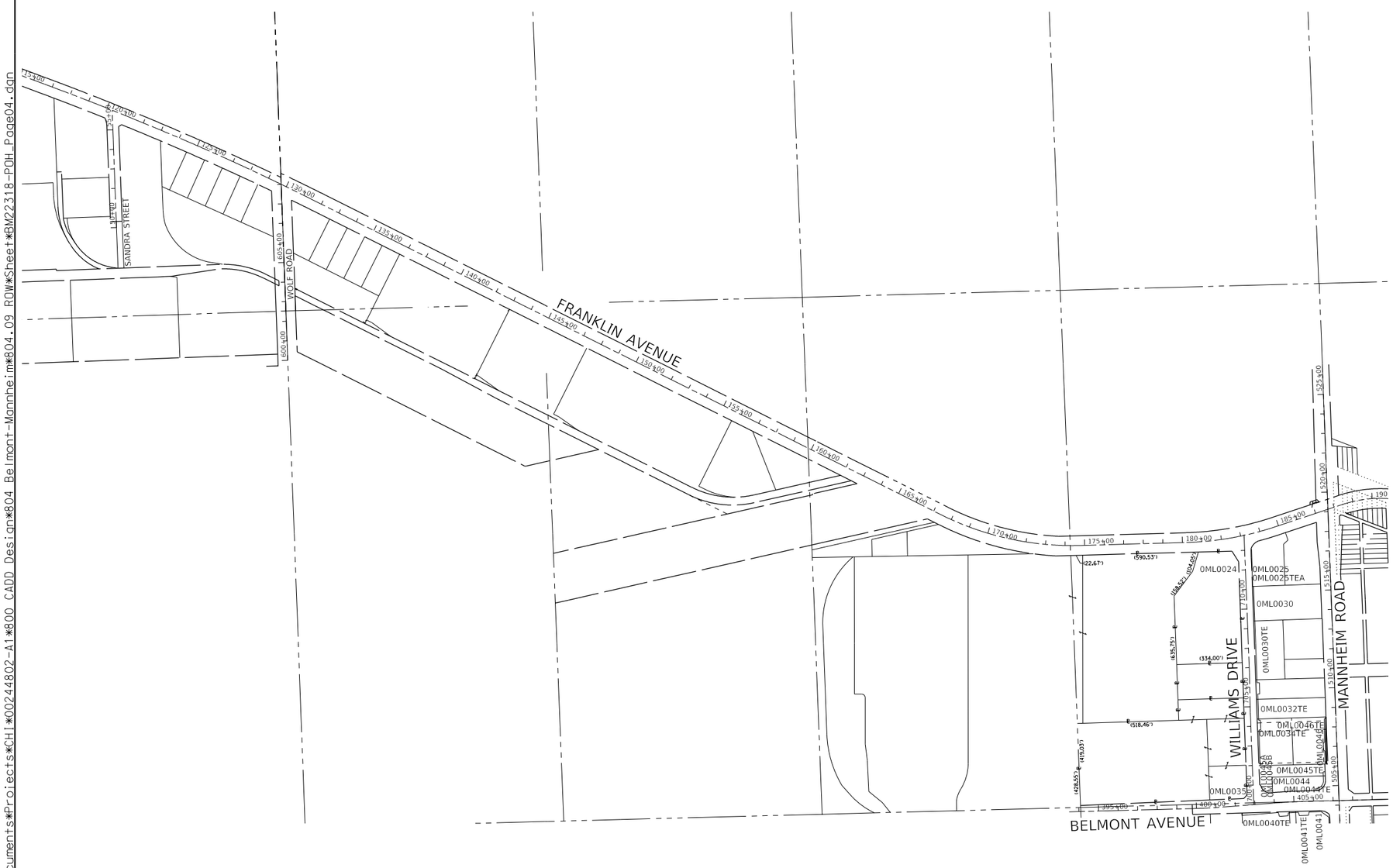
APPROVED
By douglas.mcclintic at 2:24 pm, May 01, 2025

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

REVISION DATE: REVISION MADE BY:

PARTS OF SECTIONS 19, 20, 21 AND 29, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

TOTAL HOLDINGS



LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
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EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32′ MEASURED DIMENSION
129.32′ (COMP) COMPUTED DIMENSION
(129.32′) RECORDED DIMENSION
EXISTING BUILDING

SCALE 0 300 600

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P.O.B. - POINT OF BEGINNING

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PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY

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DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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FIELD WORK COMPLETED: 06/27/2020

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U.S.A.
www.exp.com
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184-006387

TEMP. EASEMENT REN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPOR
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. — COUNTY:
SECTIONS: 19, 20, 21 AND 29 — JOB NO.:
STATION — TO STATI
SCALE: 1"=300′ — SHEET 4

IDOT USE ONLY

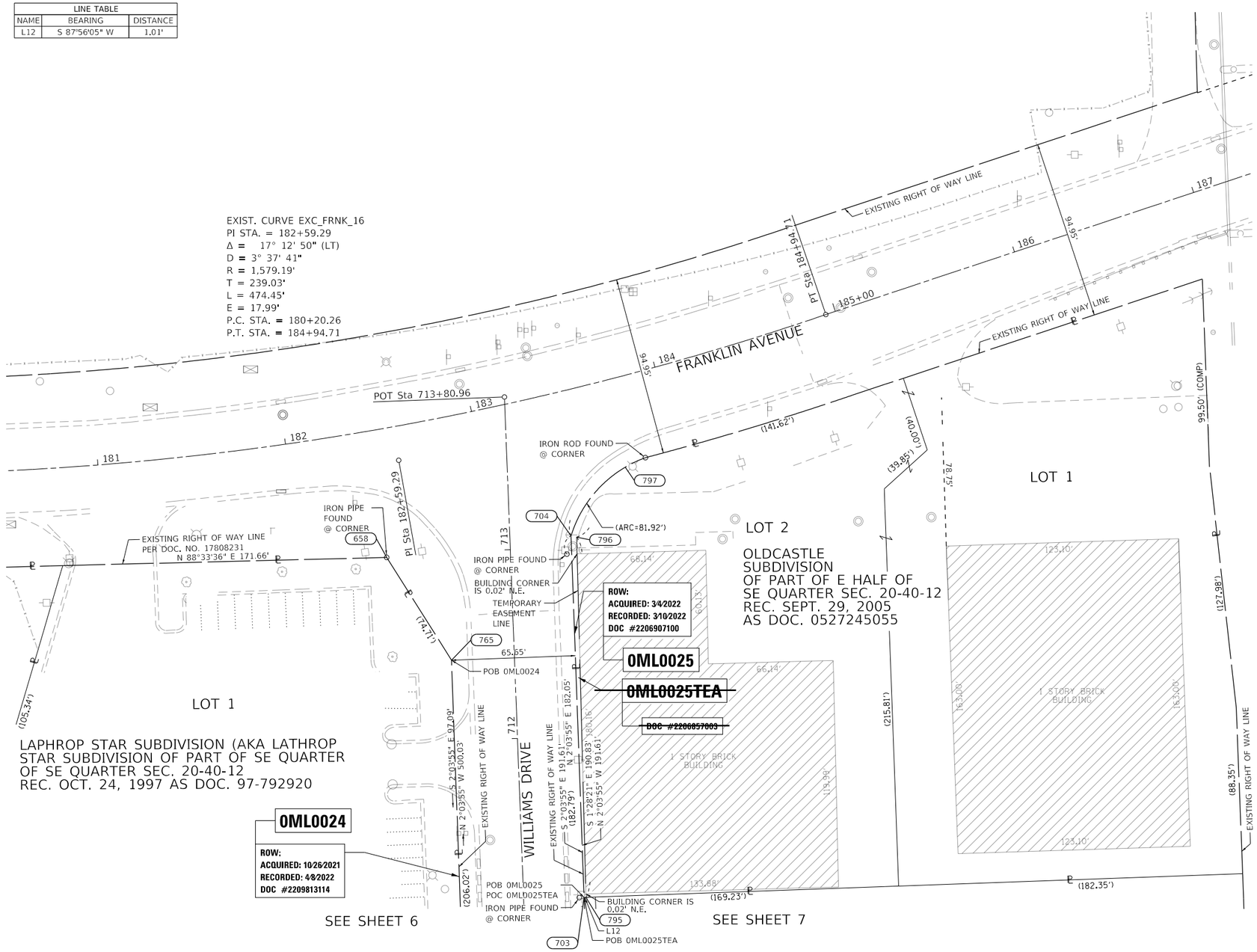
APPROVED
By douglas.mcclintic at 2:24 pm, May 01, 2025

BUREAU OF LAND ACQUISITI
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 6019

REVISION DATE: 4/29/2025 REVISION MADE BY: A.G.

PARTS OF SECTIONS 20, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

LINE TABLE		
NAME	BEARING	DISTANCE
L12	S 87°56'05" W	1.01'



LEGEND

SECTION CORNER (9 10 16 15)

QUARTER SECTION CORNER (16 15)

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
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N

0 30 60
SCALE IN FEET

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DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

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PROFESSIONAL DESIGN FIRM NO. 184-006387

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
658	182+42.72	67.59'	RT	1921013.027	1105701.584
703	711+14.51	32.04'	RT	1920832.983	1105806.124
704	713+06.11	32.43'	RT	1921024.465	1105799.219
765	712+42.74	33.34'	LT	1920958.632	1105735.905
795	711+14.50	33.04'	RT	1920833.019	1105807.132
796	713+05.32	35.41'	RT	1921023.789	1105802.227
797	183+71.60	47.15'	RT	1921060.823	1105827.916

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
~~0ML0024~~	5.367	~~0.088~~				5.367			12-20-401-022
0ML0024TEA							0.052		
0ML0024TEB							0.016		
~~0ML0025~~	2.080	~~0.011~~				2.080			12-20-402-020 12-20-402-019
~~0ML0025TEA~~							0.013		
0ML0025TEB							0.022		

NOTE:
SEE SHEET 4 FOR TOTAL HOLDING DETAILS.

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:24 pm, May 01, 2025

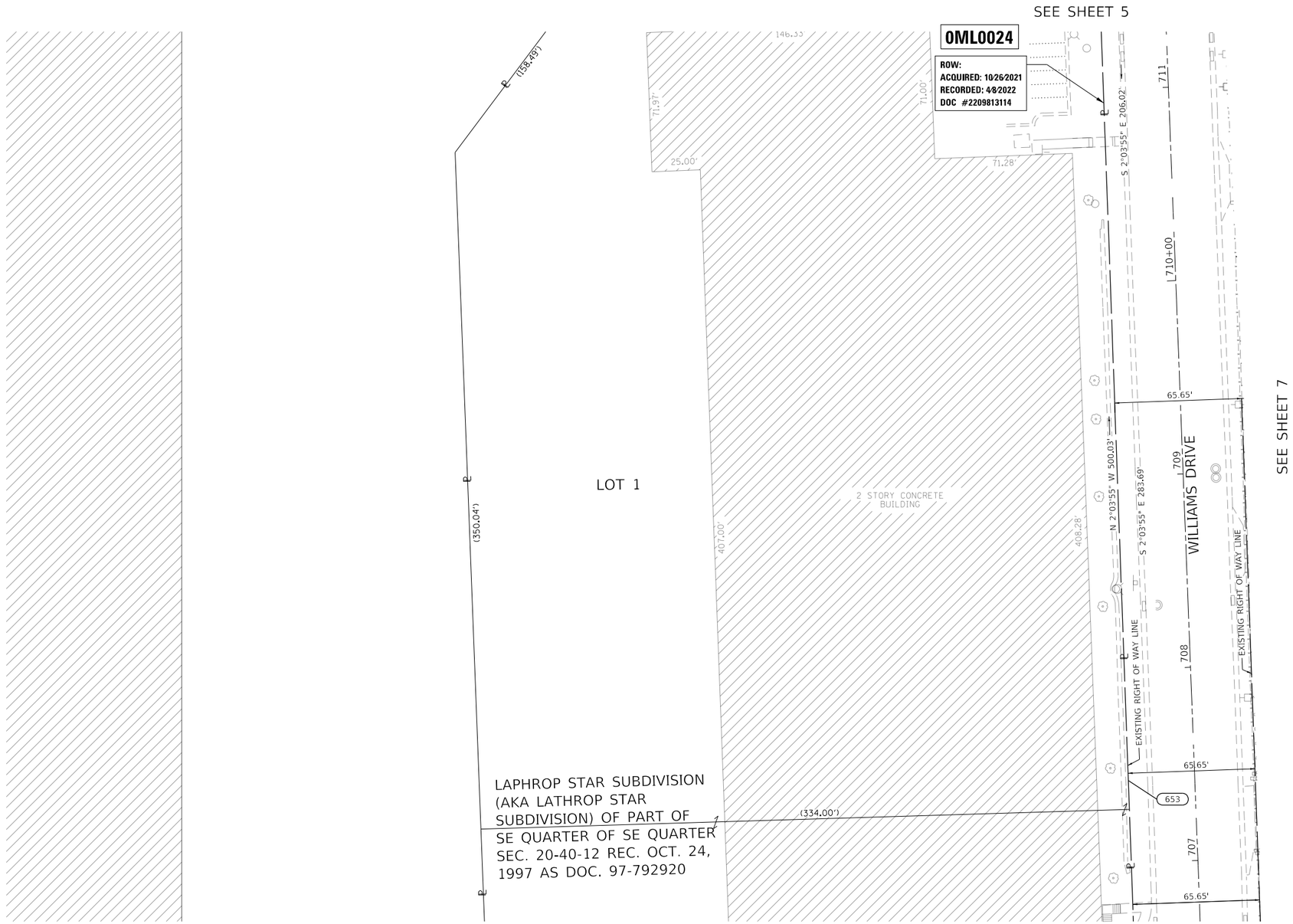
TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. — COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 — JOB NO.: R-90-006-20
STATION 180+53.00 — TO STATION 187+32.00
SCALE: 1"=30' — SHEET 5 OF 11

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

PARTS OF SECTIONS 20, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

SECTION CORNER (9 10 16 15)

QUARTER SECTION CORNER (16 15)

N

SCALE IN FEET: 0 30 60

	SECTION / QUARTER SECTION LINE
	PLATTED LOT LINES
	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	EXISTING CENTERLINE
	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING ACCESS CONTROL LINE
AC	PROPOSED ACCESS CONTROL LINE
129.32'	MEASURED DIMENSION
129.32' (COMP)	COMPUTED DIMENSION
(129.32')	RECORDED DIMENSION
	EXISTING BUILDING

ABBREVIATIONS:

P.O.C. - POINT OF COMMENCEMENT
P.O.B. - POINT OF BEGINNING

SURVEY NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES DIVIDE GRID DISTANCES SHOWN BY THE COMBINED FACTOR OF 0.99996489.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".

TREE, BOLLARD, SPLICE BOX, POWER POLE, WATER VALVE
LIGHT POLE, MANHOLE, HANDHOLE, SIGN, HYDRANT

IRON PIPE OR ROD FOUND — "MAG" NAIL SET
CUT CROSS FOUND OR SET — 5 / 8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, JACK A. ZLOTEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR LICENSE NO. 035-003186, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN PART OF SECTIONS 19, 20, 21 AND 28 TOWNSHIP 40 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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

FIELD WORK COMPLETED: 06/27/2020

exp U.S. Services Inc.
t: +1.312.616.0000 | f: +1.312.616.6069
205 N. Michigan Avenue, Suite 3600
Chicago, IL 60601-5924
U.S.A.
www.exp.com
PROFESSIONAL DESIGN FIRM NO. 184-006387

NOTE:
SEE SHEET 4 FOR TOTAL HOLDING DETAILS.

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
653	707+42.72	34.38'	LT	1920458.931	1105753.926

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
~~0ML0024~~	~~5.455~~	~~0.088~~				~~5.367~~			~~12-20-401-022~~

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:25 pm, May 01, 2025

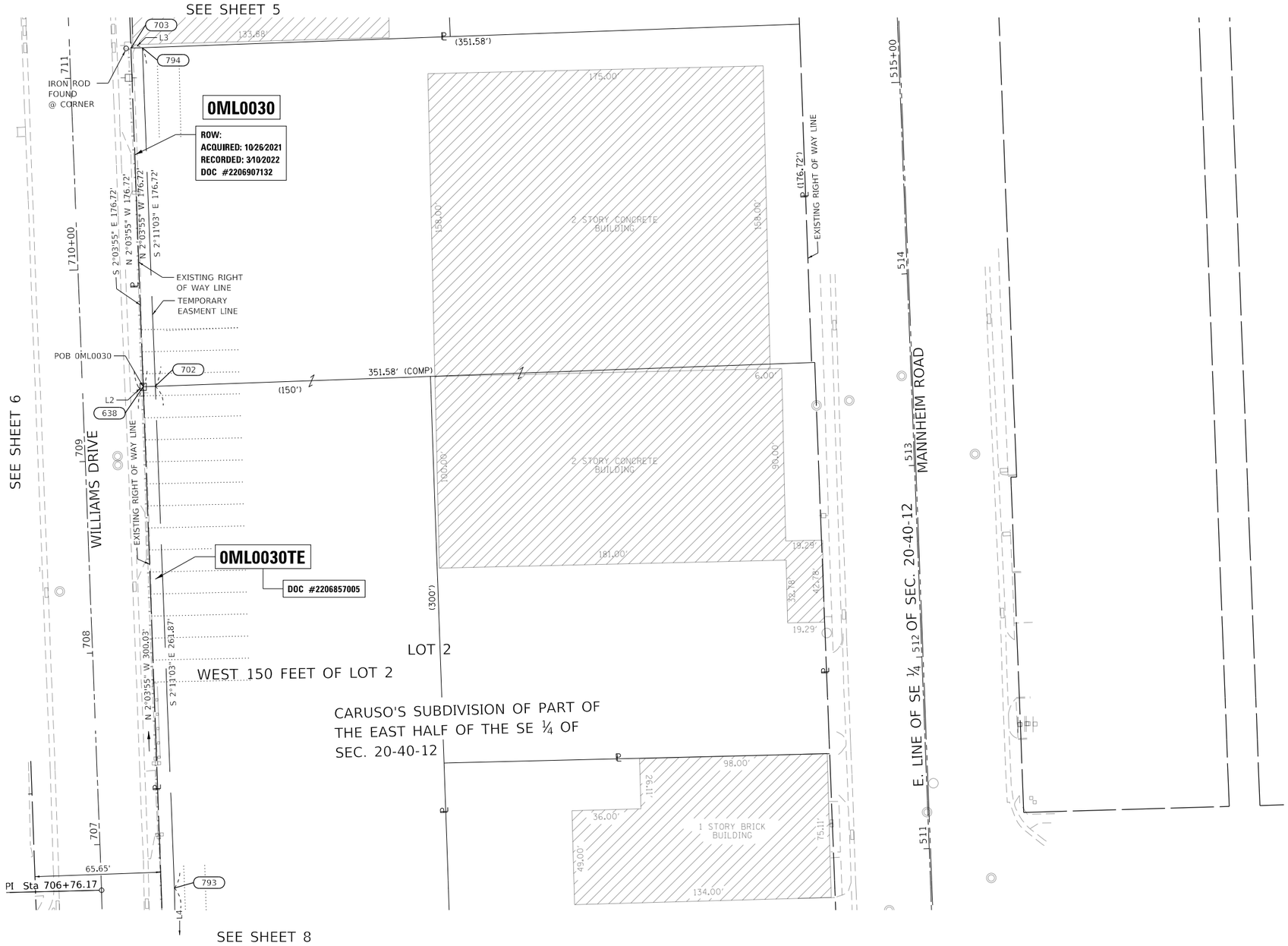
TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. — COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 — JOB NO.: R-90-006-20
STATION 706+70.00 — TO STATION 711+30.00
SCALE: 1"=30' — SHEET 6 OF 11

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

PARTS OF SECTIONS 20, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

SECTION CORNER (9 10 16 15)

QUARTER SECTION CORNER (16 15)

N

0 30 60
SCALE IN FEET

— — —	SECTION / QUARTER SECTION LINE
	PLATTED LOT LINES
P	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	EXISTING CENTERLINE
	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
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ABBREVIATIONS:

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DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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FIELD WORK COMPLETED: 06/27/2020

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Chicago, IL 60601-5924
U.S.A.
www.exp.com
PROFESSIONAL DESIGN FIRM NO. 184-006387

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
638	709+37.79	31.67'	RT	1920656.378	1105812.493
702	709+37.77	38.00'	RT	1920656.610	1105818.820
703	711+14.51	32.04'	RT	1920832.983	1105806.124
793	706+76.17	38.00'	RT	1920394.925	1105828.800
794	711+14.49	38.00'	RT	1920833.198	1105812.084

LINE TABLE		
NAME	BEARING	DISTANCE
L2	S 87°56'05" W	2.53'
L3	N 87°56'05" E	5.96'
L4	S 1°23'03" E	38.23'

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
~~0ML0030~~	2.451	~~0.010~~				2.451			12-20-402-007 12-20-402-011 12-20-402-015
0ML0030TE							0.071		

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:25 pm, May 01, 2025

TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 JOB NO.: R-90-006-20
STATION 706+65.00 TO STATION 711+32.00
SCALE: 1"=30' SHEET 7 OF 11

BUREAU OF LAND ACQUISITION
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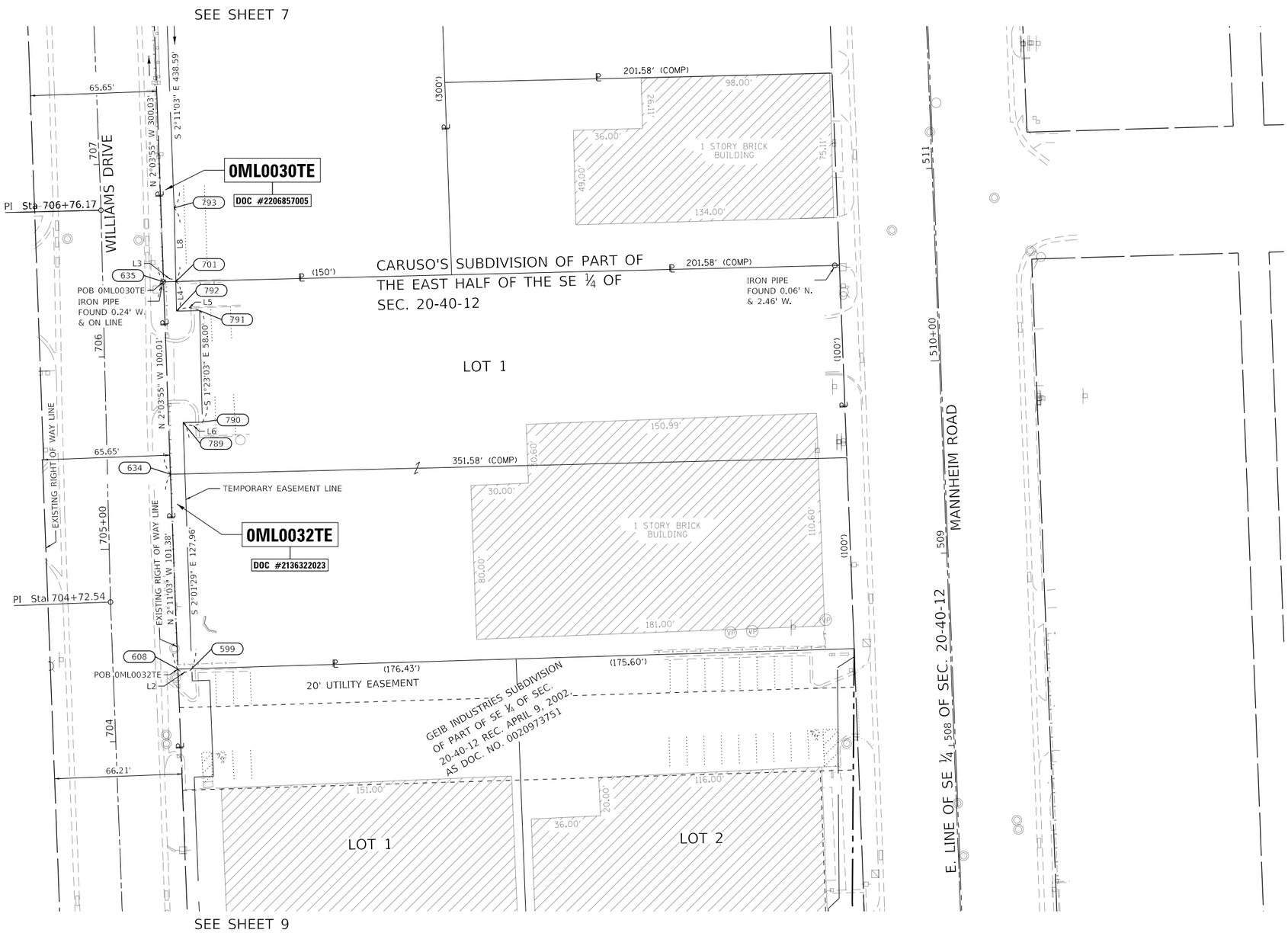

LEGEND

SECTION CORNER — QUARTER SECTION CORNER

SCALE IN FEET: 0 30 60

	SECTION / QUARTER SECTION LINE
	PLATTED LOT LINES
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PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
599	704+36.30	40.92'	RT	1920155.521	1105838.002
608	704+36.36	33.69'	RT	1920155.301	1105830.774
634	705+38.20	32.77'	RT	1920256.604	1105826.911
635	706+38.20	31.58'	RT	1920356.546	1105823.306
701	706+38.20	38.00'	RT	1920356.701	1105829.724
789	705+64.83	39.99'	RT	1920283.397	1105833.482
790	705+64.83	49.98'	RT	1920283.639	1105843.475
791	706+22.83	49.98'	RT	1920341.624	1105842.074
792	706+22.83	38.00'	RT	1920341.335	1105830.095
793	706+76.17	38.00'	RT	1920394.925	1105828.800

LINE TABLE		
NAME	BEARING	DISTANCE
L2	S 88°15'34" W	7.23'
L3	N 88°36'43" E	6.42'
L4	S 1°23'03" E	15.37'
L5	N 88°36'57" E	11.98'
L6	S 88°36'57" W	10.00'
L8	S 1°23'03" E	38.23'

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA ACRES	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
0ML0032TE	1.617					1.617	0.048		12-20-401-003 12-20-402-010

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:25 pm, May 01, 2025

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STATION 703+12.00 TO STATION 707+72.00
SCALE: 1"=30' SHEET 8 OF 11

BUREAU OF LAND ACQUISITION
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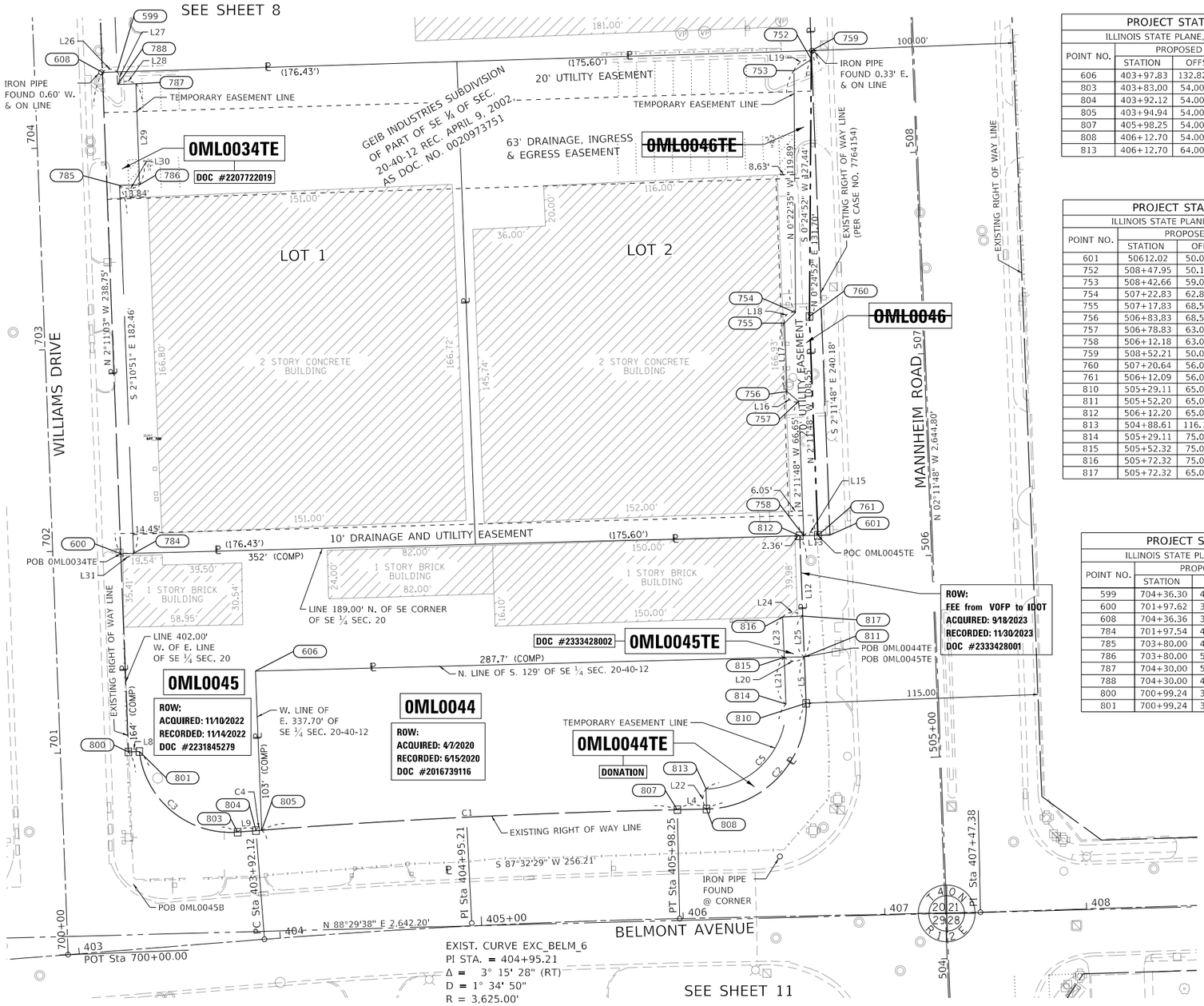

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED BELMONT AVENUE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
606	403+97.83	132.82'	LT	1919858.464	1105906.629
803	403+83.00	54.00'	LT	1919778.719	1105897.788
804	403+92.12	54.00'	LT	1919779.431	1105906.886
805	403+94.94	54.00'	LT	1919779.652	1105909.735
807	405+98.25	54.00'	LT	1919789.813	1106115.793
808	406+12.70	54.00'	LT	1919790.120	1106130.239
813	406+12.70	64.00'	LT	1919800.118	1106130.027

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED MANNHEIM ROAD BASELINE				
	STATION	OFFSET		NORTHING	EASTING
601	50612.02	50.00'	LT	1919925.974	1106191.441
752	508+47.95	50.19'	LT	1920161.721	1106182.203
753	508+42.66	59.00'	LT	1920156.094	1106173.607
754	507+22.83	62.81'	LT	1920036.211	1106174.395
755	507+17.83	68.50'	LT	1920030.996	1106168.899
756	506+83.83	68.50'	LT	1919997.021	1106170.202
757	506+78.83	63.00'	LT	1919992.236	1106175.890
758	506+12.18	63.00'	LT	1919925.632	1106178.444
759	508+52.21	50.00'	LT	1920165.982	1106182.234
760	507+20.64	56.00'	LT	1920034.285	1106181.282
761	506+12.09	56.00'	LT	1919925.817	1106185.443
810	505+29.11	65.00'	LT	1919842.544	1106179.630
811	505+52.20	65.00'	LT	1919865.620	1106178.745
812	506+12.20	65.00'	LT	1919925.580	1106176.445
813	504+88.61	116.19'	LT	1919800.118	1106130.027
814	505+29.11	75.00'	LT	1919842.161	1106169.638
815	505+52.32	75.00'	LT	1919865.357	1106168.748
816	505+72.32	75.00'	LT	1919885.342	1106167.981
817	505+72.32	65.00'	LT	1919885.725	1106177.974

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
599	704+36.30	40.92'	RT	1920155.521	1105838.002
600	701+97.62	33.70'	RT	1919916.730	1105839.873
608	704+36.36	33.69'	RT	1920155.301	1105830.774
784	701+97.54	40.00'	RT	1919916.896	1105846.172
785	703+80.00	40.00'	RT	1920099.222	1105839.229
786	703+80.00	50.00'	RT	1920099.603	1105849.222
787	704+30.00	50.00'	RT	1920149.566	1105847.319
788	704+30.00	40.90'	RT	1920149.220	1105838.225
800	700+99.24	33.71'	RT	1919818.430	1105843.622
801	700+99.24	39.15'	RT	1919818.637	1106849.065

LINE TABLE		
NAME	BEARING	DISTANCE
L4	N 88°47'01" E	14.45'
L5	N 02°11'48" W	23.09'
L8	N 87°48'57" E	5.45'
L9	N 85°31'33" E	9.13'
L12	N 02°11'48" W	60.00'
L13	N 88°29'38" E	15.00'
L14	S 88°29'38" W	6.00'
L15	S 88°29'38" W	7.00'
L16	N 49°55'23" W	7.43'
L17	N 2°11'48" W	34.00'
L18	N 46°30'19" E	7.58'
L19	N 56°47'39" E	10.27'
L20	N 88°29'38" E	10.00'
L21	S 2°11'48" E	23.21'
L22	S 1°12'60" E	10.00'
L23	N 2°11'48" W	20.00'
L24	N 87°48'12" E	10.00'
L25	S 2°11'48" E	20.12'
L26	N 88°15'34" E	7.23'
L27	S 2°01'29" E	6.30'
L28	N 87°49'09" E	9.10'
L29	S 2°10'51" E	50.00'
L30	S 87°49'09" W	10.00'
L31	S 88°29'38" W	6.30'

CURVE TABLE				
CURVE	ARC DISTANCE	RADIUS	CHORD BEARING	CHORD
C1	206.34'	3,679.00'	N 87°10'37" E	206.31'
C2	80.19'	50.50'	N 43°17'36" E	72.03'
C3	69.57	45.50'	S 50°40'20" E	62.99'
C4	2.86'	3,679.00'	N 85°32'53" E	2.86'
C5	64.31'	40.50'	S 43°17'36" W	57.76'

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
0ML0034TE	0.967					0.967	0.046		12-20-401-024
~~0ML0044~~	0.457	~~0.191~~		~~0.000~~	~~0.000~~	0.266			12-20-401-005
0ML0044TE							0.022		
~~0ML0045A~~	0.567	~~0.021~~		~~0.000~~	~~0.000~~	0.567			12-20-401-014
~~0ML0045B~~		~~0.050~~		~~0.000~~	~~0.000~~				
0ML0045TE							0.005	201	
~~0ML0046~~	~~0.967~~	~~0.024~~		~~0.000~~	~~0.000~~	~~0.943~~			~~12-20-401-025~~
~~0ML0046TE~~							~~0.044~~		

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
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AC — PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
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EXISTING BUILDING

N

0 30 60
SCALE IN FEET

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SURVEY NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES DIVIDE GRID DISTANCES SHOWN BY THE COMBINED FACTOR OF 0.99996489.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".

TREE, BOLLARD, SPLICE BOX, POWER POLE, WATER VALVE, LIGHT POLE, MANHOLE, HANDHOLE, SIGN, HYDRANT

IRON PIPE OR ROD FOUND — "MAG" NAIL SET
CUT CROSS FOUND OR SET — 5 / 8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, JACK A. ZLOTEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR LICENSE NO. 035-003186, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN PART OF SECTIONS 19, 20, 21 AND 28 TOWNSHIP 40 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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

FIELD WORK COMPLETED: 06/27/2020

exp U.S. Services Inc.
t: +1.312.616.0000 | f: +1.312.616.6069
205 N. Michigan Avenue, Suite 3600
Chicago, IL 60601-5924
U.S.A.
www.exp.com
PROFESSIONAL DESIGN FIRM NO. 184-006387

TEMP. EASEMENT RENEWALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

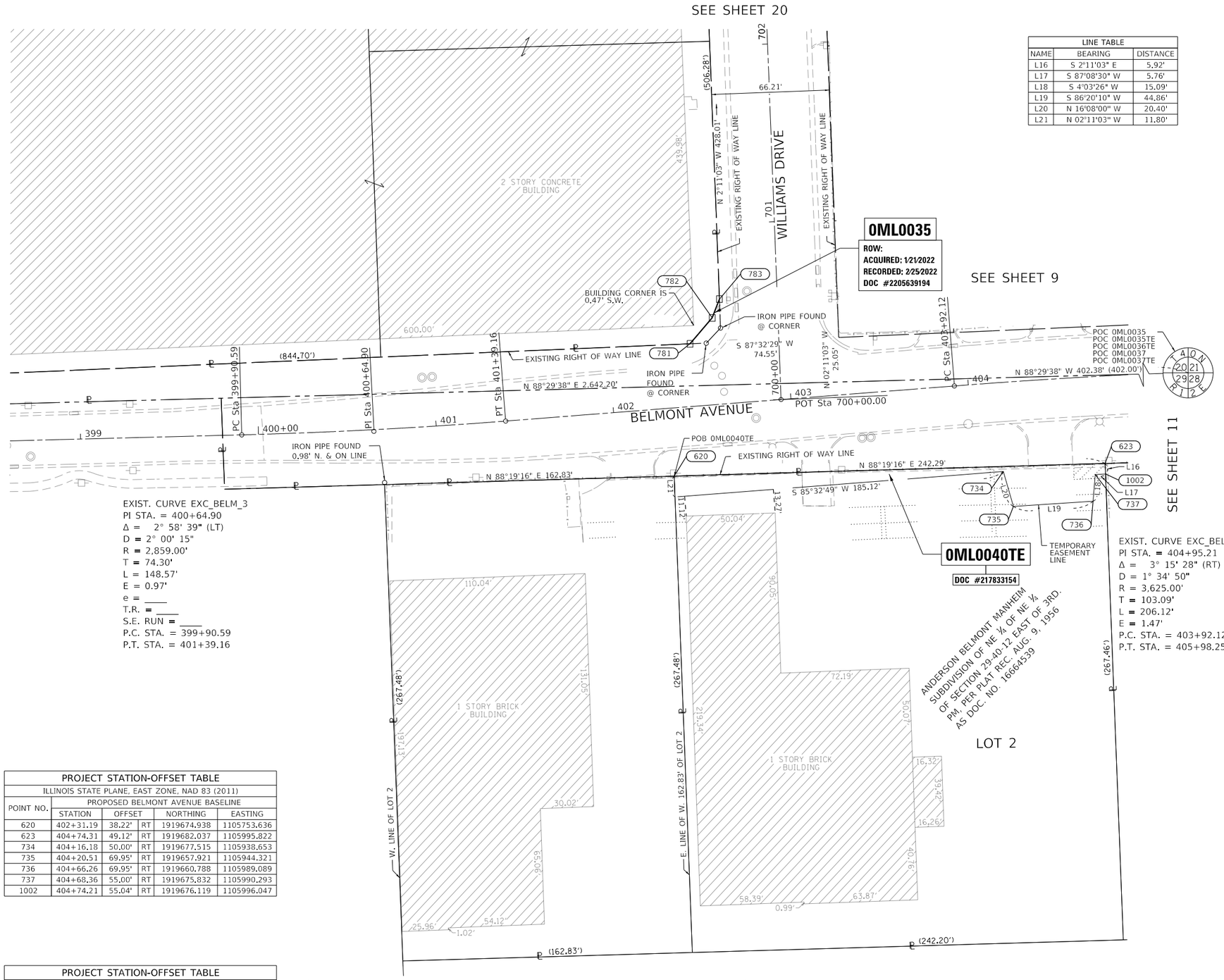
LIMITS: RUNGE AVE. TO ERNST ST. COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 JOB NO.: R-90-006-20
STATION 402+94.35 TO STATION 407+30.66
SCALE: 1"=30' SHEET 9 OF 11

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:26 pm, May 01, 2025

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

PARTS OF SECTIONS 20 AND 29, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LINE TABLE		
NAME	BEARING	DISTANCE
L16	S 2°11'03" E	5.92'
L17	S 87°08'30" W	5.76'
L18	S 4°03'26" W	15.09'
L19	S 86°20'10" W	44.86'
L20	N 16°08'00" W	20.40'
L21	N 02°11'03" W	11.80'

EXIST. CURVE EXC_BELM_3
PI STA. = 400+64.90
Δ = 2° 58' 39" (LT)
D = 2° 00' 15"
R = 2,859.00'
T = 74.30'
L = 148.57'
E = 0.97'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 399+90.59
P.T. STA. = 401+39.16

EXIST. CURVE EXC_BELM_6
PI STA. = 404+95.21
Δ = 3° 15' 28" (RT)
D = 1° 34' 50"
R = 3,625.00'
T = 103.09'
L = 206.12'
E = 1.47'
P.C. STA. = 403+92.12
P.T. STA. = 405+98.25

LEGEND

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

N

0 30 60
SCALE IN FEET

ABBREVIATIONS:

P.O.C. - POINT OF COMMENCEMENT
P.O.B. - POINT OF BEGINNING

SURVEY NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983 (2011 ADJUSTMENT) "GRID".
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TREE, BOLLARD, SPLICE BOX, POWER POLE, WATER VALVE, LIGHT POLE, MANHOLE, HANDHOLE, SIGN, HYDRANT

IRON PIPE OR ROD FOUND — "MAG" NAIL SET
CUT CROSS FOUND OR SET — 5 / 8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, JACK A. ZLOTEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR LICENSE NO. 035-003186, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN PART OF SECTIONS 19, 20, 21 AND 28 TOWNSHIP 40 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

JACK A. ZLOTEK, PLS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003186
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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

FIELD WORK COMPLETED: 06/27/2020

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PROFESSIONAL DESIGN FIRM NO. 184-006387

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED BELMONT AVENUE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
620	402+31.19	38.22'	RT	1919674.938	1105753.636
623	404+74.31	49.12'	RT	1919682.037	1105995.822
734	404+16.18	50.00'	RT	1919677.515	1105938.653
735	404+20.51	69.95'	RT	1919657.921	1105944.321
736	404+66.26	69.95'	RT	1919660.788	1105989.089
737	404+68.36	55.00'	RT	1919675.832	1105990.293
1002	404+74.21	55.04'	RT	1919676.119	1105996.047

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED WILLIAMS DRIVE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
781	700+33.24	49.97'	LT	1919749.293	1105762.522
782	700+47.35	36.96'	LT	1919763.882	1105774.987
783	700+57.75	32.50'	LT	1919774.450	1105779.046

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
~~0ML0035~~	2.609	~~0.003~~	~~143~~			2.609			12-20-401-002 12-20-401-016
0ML0035TE							0.013		12-20-401-021
0ML0040TE	1.491					1.491	0.056		12-29-201-016

NOTE:
SEE SHEET 4 FOR TOTAL HOLDING DETAILS.

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:26 pm, May 01, 2025

TEMP. EASEMENT RENEWALS

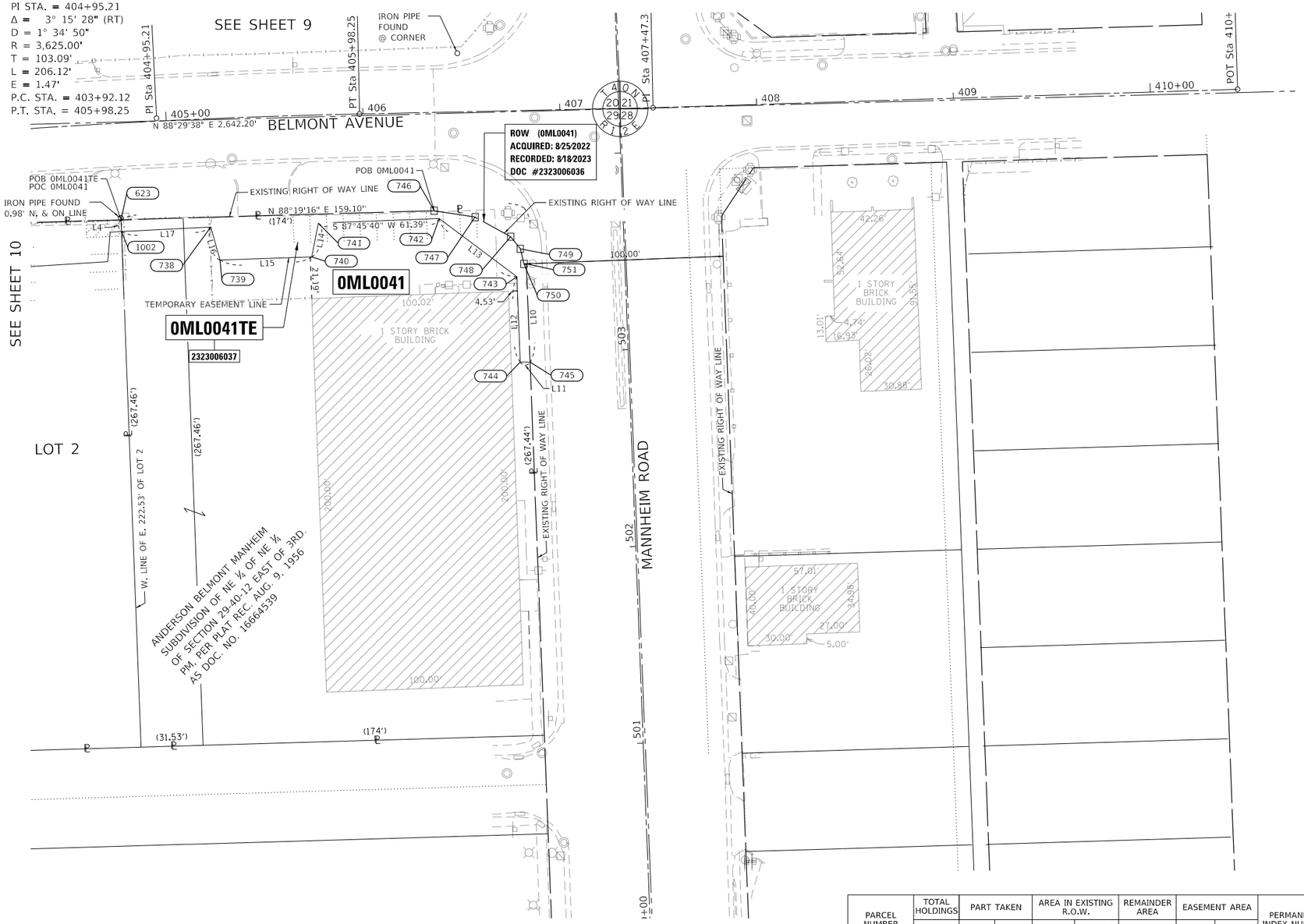
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 JOB NO.: R-90-006-20
STATION 398+60.00 TO STATION 404+90.00
SCALE: 1"=30' SHEET 10 OF 11

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

PARTS OF SECTIONS 29, TWP. 40 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

EXIST. CURVE EXC_BELM_6
PI STA. = 404+95.21
Δ = 3° 15' 28" (RT)
D = 1° 34' 50"
R = 3,625.00'
T = 103.09'
L = 206.12'
E = 1.47'
P.C. STA. = 403+92.12
P.T. STA. = 405+98.25



LINE TABLE		
NAME	BEARING	DISTANCE
L4	N 2°11'03" W	5.92'
L10	S 2°11'48" E	49.90'
L11	S 89°06'55" W	5.00'
L12	N 2°11'48" W	43.44'
L13	N 53°12'22" W	49.36'
L14	S 11°01'01" W	17.41'
L15	S 87°59'32" W	46.62'
L16	N 15°33'58" W	17.40'
L17	S 87°08'30" W	45.45'

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED BELMONT AVENUE BASELINE				
	STATION	OFFSET		NORTHING	EASTING
623	404+74.31	49.12'	RT	1919682.037	1105995.822
738	405+20.36	55.00'	RT	1919678.386	1106041.439
739	405+24.39	71.95'	RT	1919661.620	1106046.110
740	405+71.96	71.95'	RT	1919663.253	1106092.705
741	405+75.83	54.96'	RT	1919680.339	1106096.032
742	406+37.54	53.93'	RT	1919682.737	1106157.371
746	406+35.11	49.92'	RT	1919686.699	1106154.858
747	406+55.86	53.61'	RT	1919683.453	1106175.677
1002	404+74.21	55.04'	RT	1919676.119	1105996.047

PROJECT STATION-OFFSET TABLE					
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT NO.	PROPOSED MANNHEIM ROAD BASELINE				
	STATION	OFFSET		NORTHING	EASTING
743	503+39.21	55.00'	LT	1919653.171	1106196.902
744	502+95.77	55.00'	LT	1919609.766	1106198.567
745	502+95.66	50.00'	LT	1919609.843	1106203.568
748	503+59.63	57.42'	LT	1919673.484	1106193.704
749	503+53.29	52.75'	LT	1919667.324	1106198.613
750	503+45.57	51.16'	LT	1919659.678	1106200.500
751	503+45.56	50.00'	LT	1919659.708	1106201.655

PARCEL NUMBER	TOTAL HOLDINGS	PART TAKEN		AREA IN EXISTING R.O.W.		REMAINDER AREA	EASEMENT AREA		PERMANENT INDEX NUMBER
	ACRES	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	ACRES	SQUARE FEET	
~~0ML0041~~	1.058	~~0.008~~	~~354~~			1.058			12-29-201-011 12-29-201-017
0ML0041TE							0.056		

REVISION DATE: 4/29/2025 REVISION MADE BY: A.J.Z.

LEGEND

SECTION CORNER (T N R E 9 10 16 15)
QUARTER SECTION CORNER (16 15)

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

N

0 30 60
SCALE IN FEET

ABBREVIATIONS:

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DATED AT CHICAGO, ILLINOIS THIS_____DAY OF _____ 2020 A.D.

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TEMP. EASEMENT RENEWALS

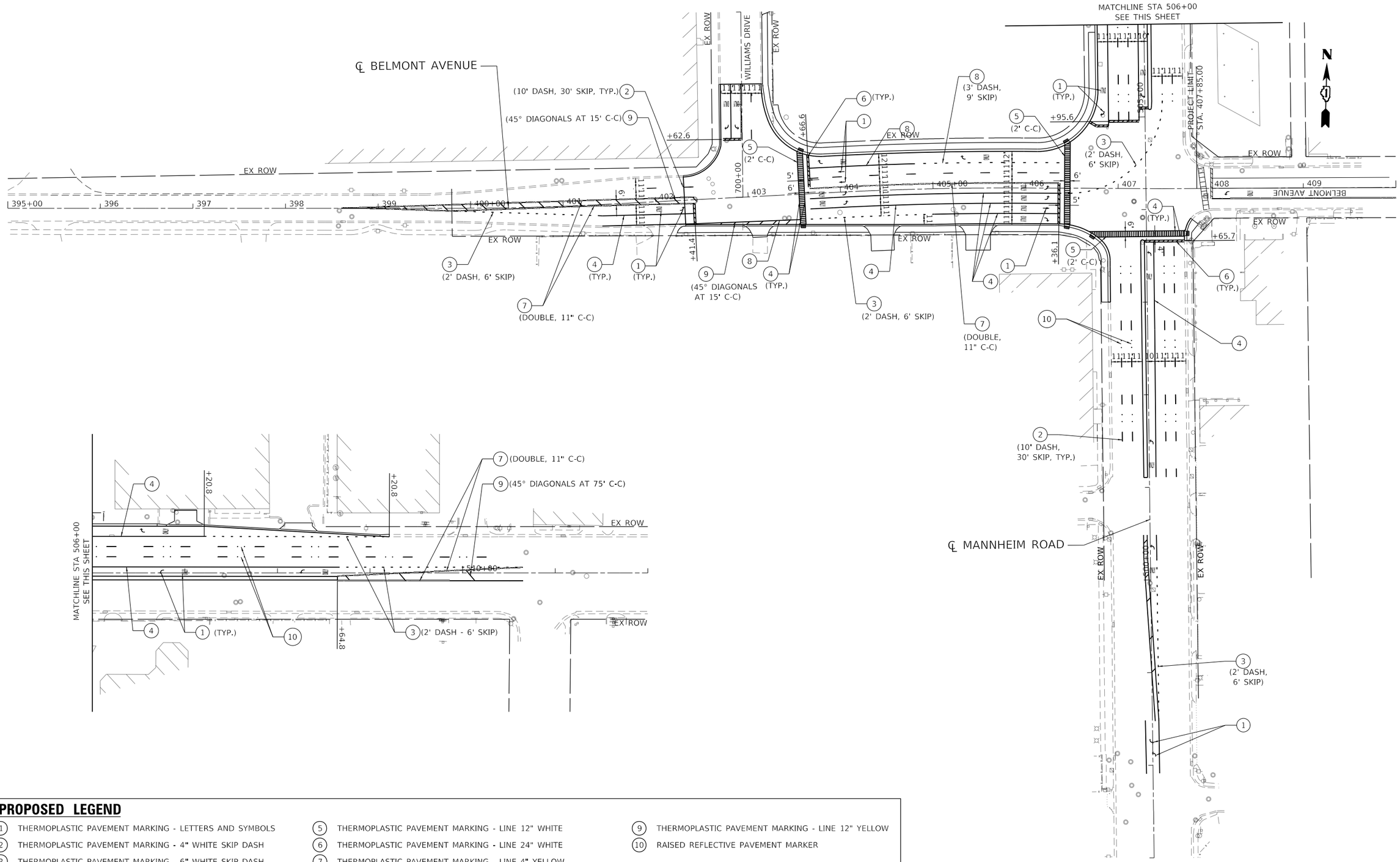
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLIN AVE.

LIMITS: RUNGE AVE. TO ERNST ST. — COUNTY: COOK
SECTIONS: 19, 20, 21 AND 29 — JOB NO.: R-90-006-20
STATION 404+30.00 — TO STATION 410+44.36
SCALE: 1"=30' — SHEET 11 OF 11

IDOT USE ONLY

APPROVED
By douglas.mcclintic at 2:26 pm, May 01, 2025

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



PROPOSED LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
2. THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH
3. THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SKIP DASH
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE
5. THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
7. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW
8. THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE
9. THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW
10. RAISED REFLECTIVE PAVEMENT MARKER

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

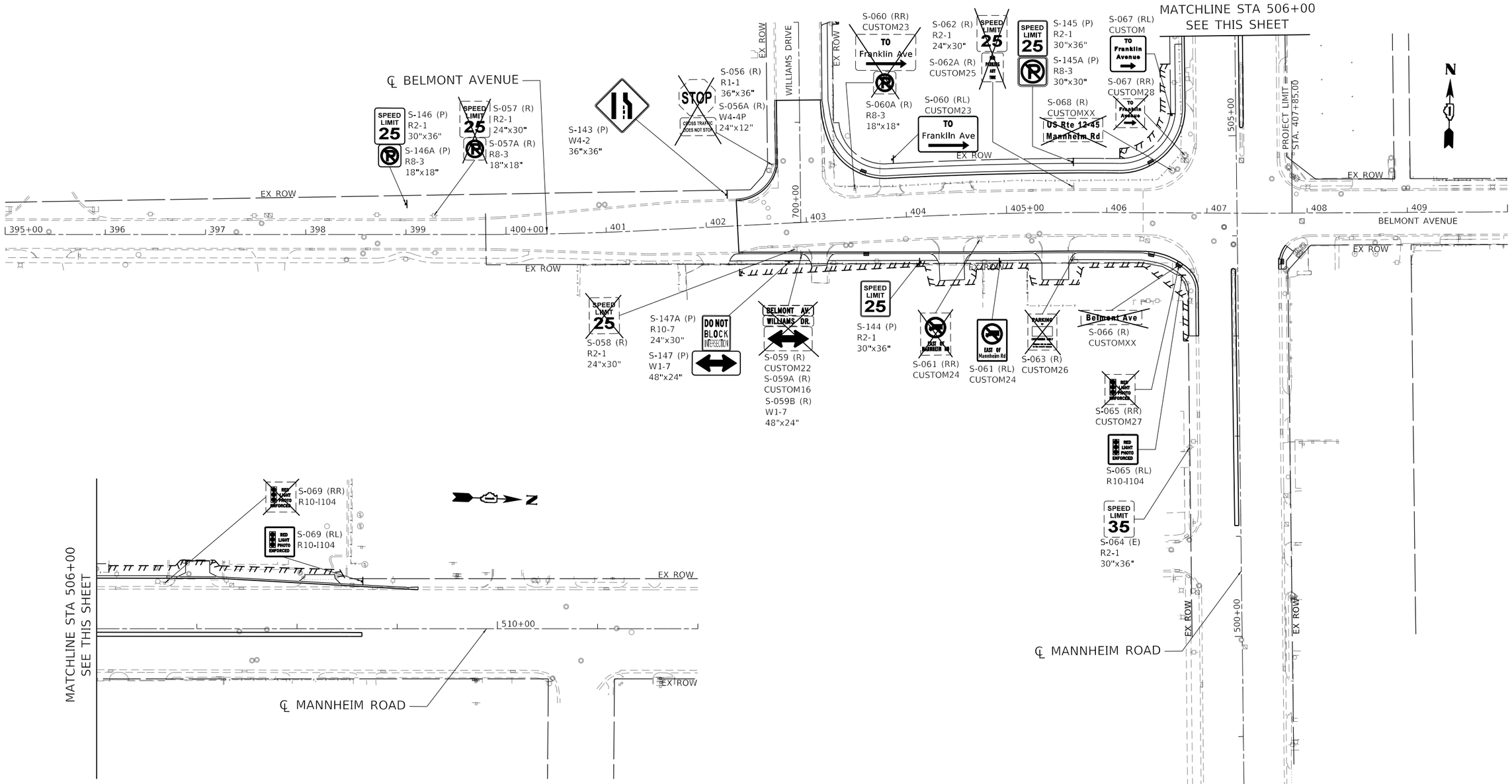
PAVEMENT MARKING PLAN
BELMONT AVENUE

SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	68

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



SIGN LEGEND

- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL TO BE REMOVED OR RELOCATED
- PROPOSED SIGN PANEL
- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGN IDENTIFICATION

SIGN NUMBER — S-100 (E)

- P- PROPOSED SIGN
- R- REMOVE SIGN
- E- EXISTING TO REMAIN
- RR- RELOCATE SIGN (ORIGINAL LOCATION)
- RL- RELOCATED SIGN (PROPOSED LOCATION)

R1-1 — MUTCD SIGN DESIGN NUMBER

36"x36" — SIGN DIMENSIONS

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FILE NAME = BM22318-sht-sign-06.dgn	USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY		DRAWN - AZ	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

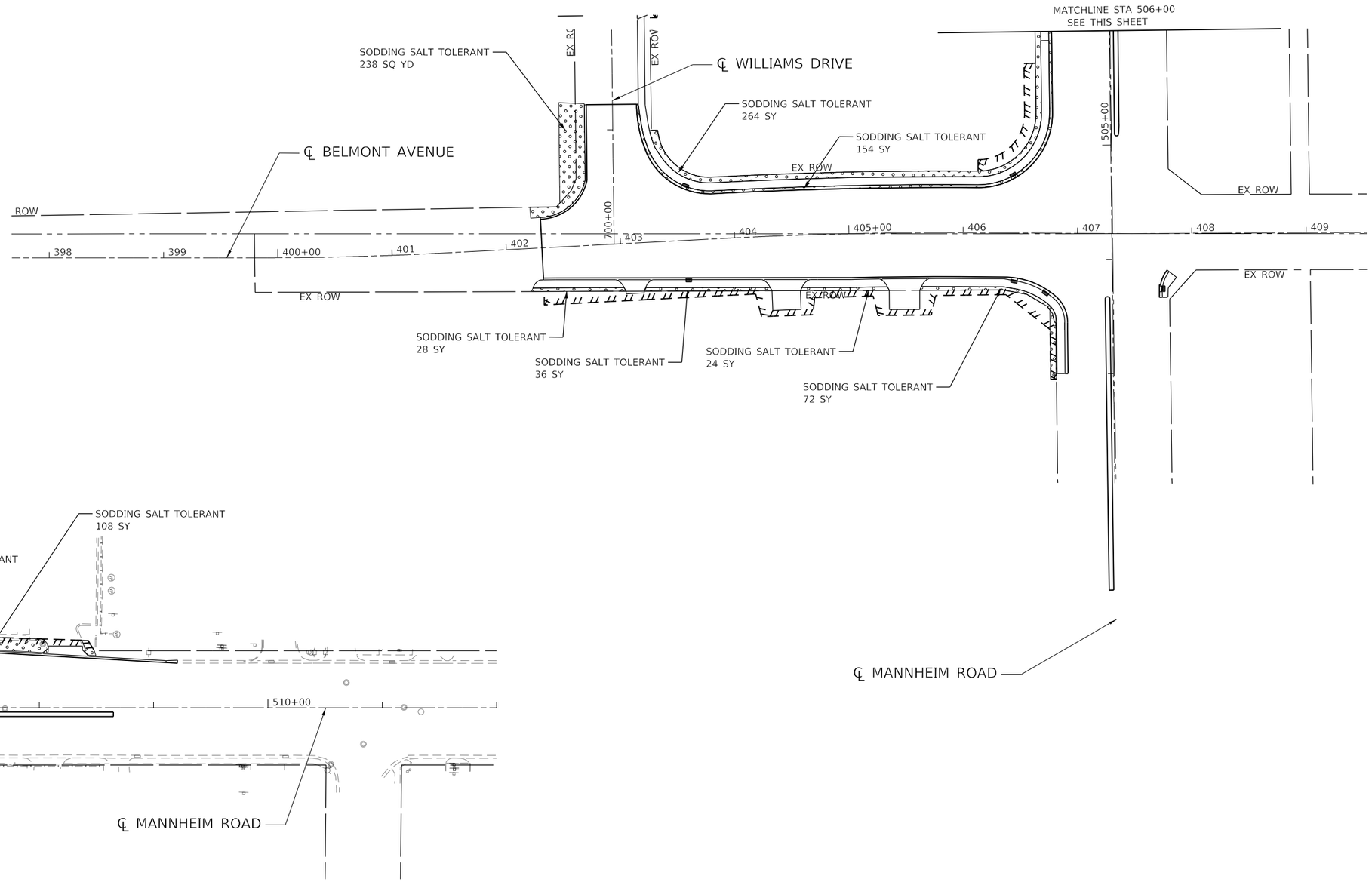
SIGNING PLANS
BELMONT AVENUE

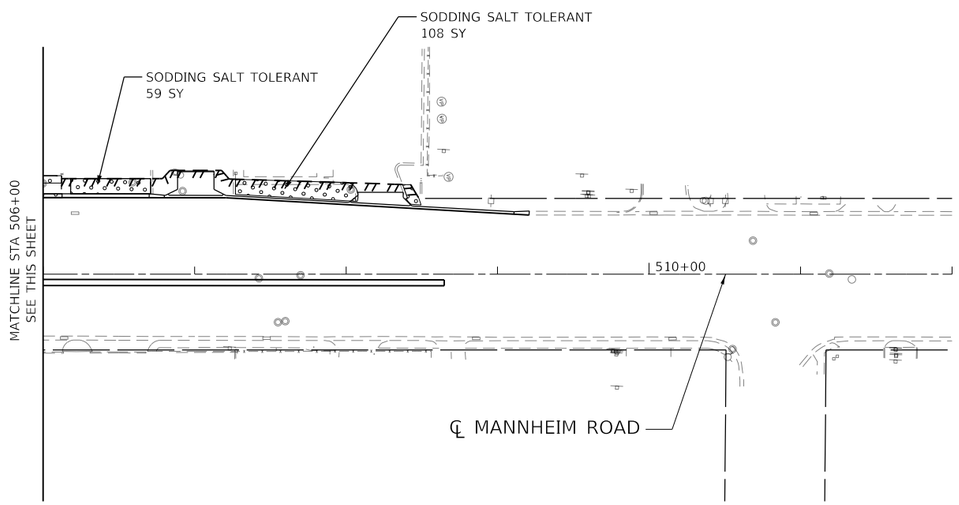
SCALE: 1"=50' | SHEET OF SHEETS | STA. 397+42 TO STA. 405+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	69

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT





PROPOSED LANDSCAPING LEGEND

SODDING SALT TOLERANT (25200110)

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		DRAWN - CW	REVISED -			1373	17-00083-02-PV	COOK	157	70
exp U.S. Services Inc. Chicago IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	PLOT SCALE = 100.0000 ' / in.	CHECKED - SH	REVISED -				CONTRACT NO. 61K16			
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. 397+42 TO STA. 405+00		ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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

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

TS SHT NO. 1

FILE NAME =	USER NAME = plescencia1	DESIGNED - IP	REVISED -
DELTA ENGINEERING GROUP	E:\DGNFiles\Legend_06-08-16.dgn	DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/10/2016	DATE - 6/8/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(11OR-1)N	COOK	157	71
	TS-05	CONTRACT NO. 61K16		
	ILLINOIS FED. AID PROJECT			

LOOP DETECTOR NOTES

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

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

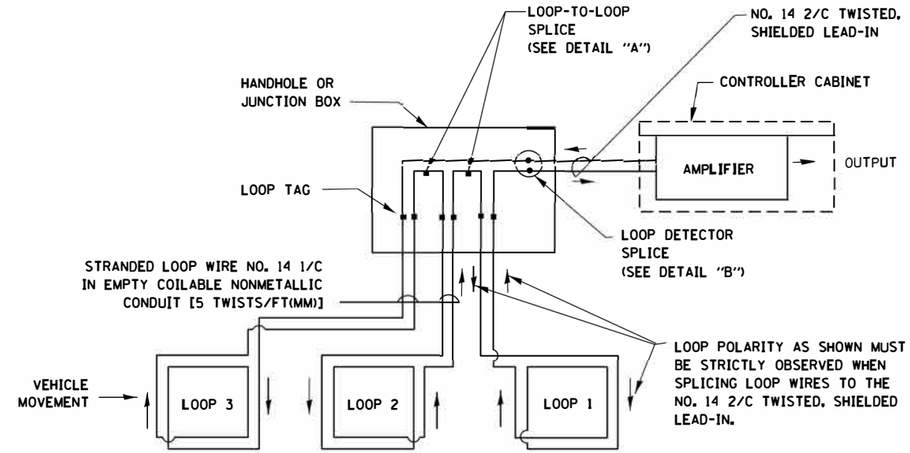
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR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

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

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

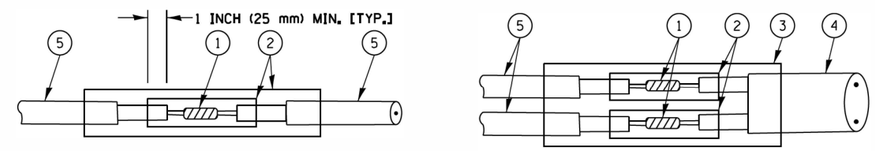
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

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



DETECTOR LOOP WIRING SCHEMATIC

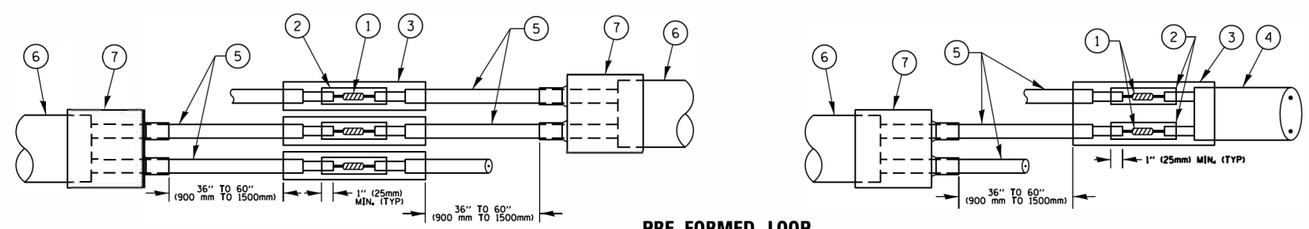
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

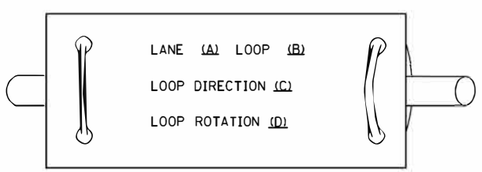


DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP LEAD-IN CABLE TAG



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

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

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

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

LOOP DETECTOR SPLICE

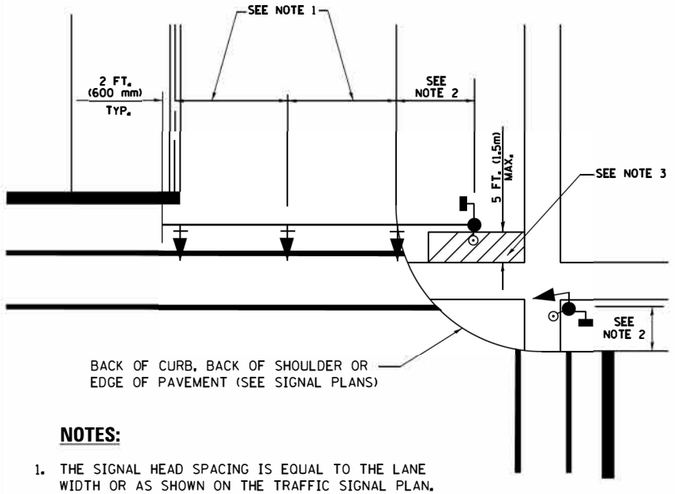
1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER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

TS SHT NO. 2

FILE NAME =	USER NAME = plascencia1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN -	REVISED -			338	(11OR-1)N	COOK	157	72
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -				TS-05	CONTRACT NO. 61K16		
	PLOT DATE = 5/17/2016	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

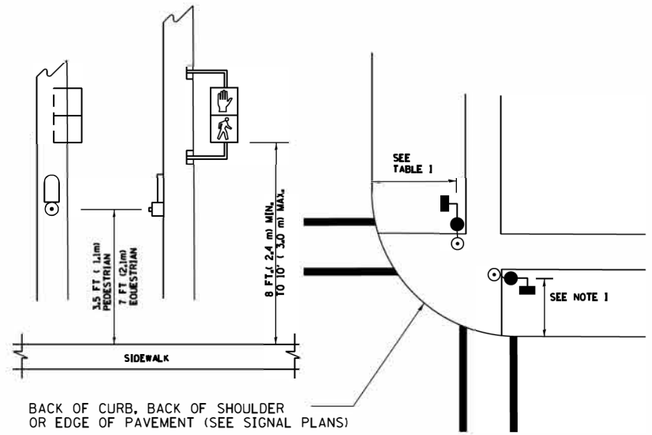
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

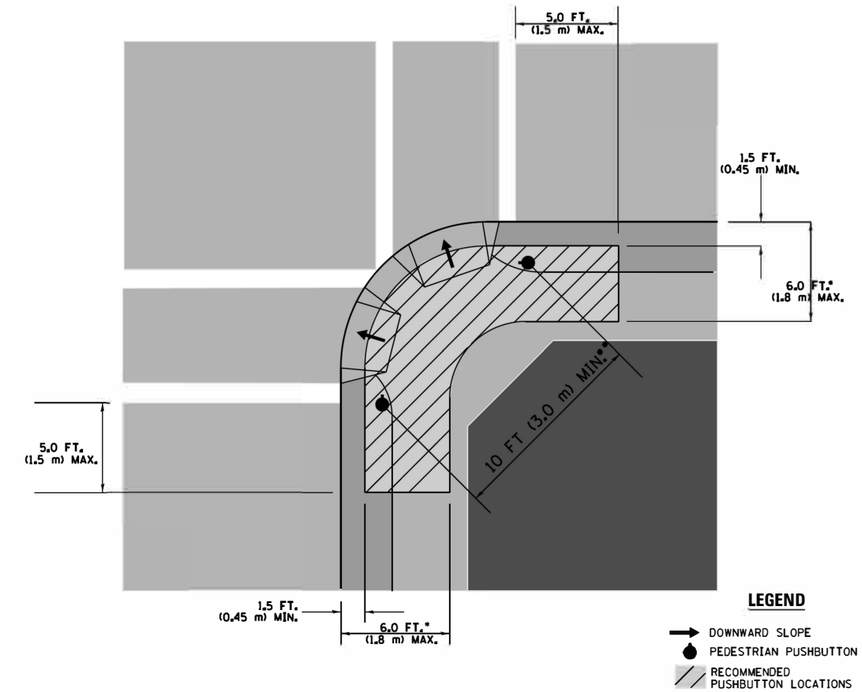
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 3

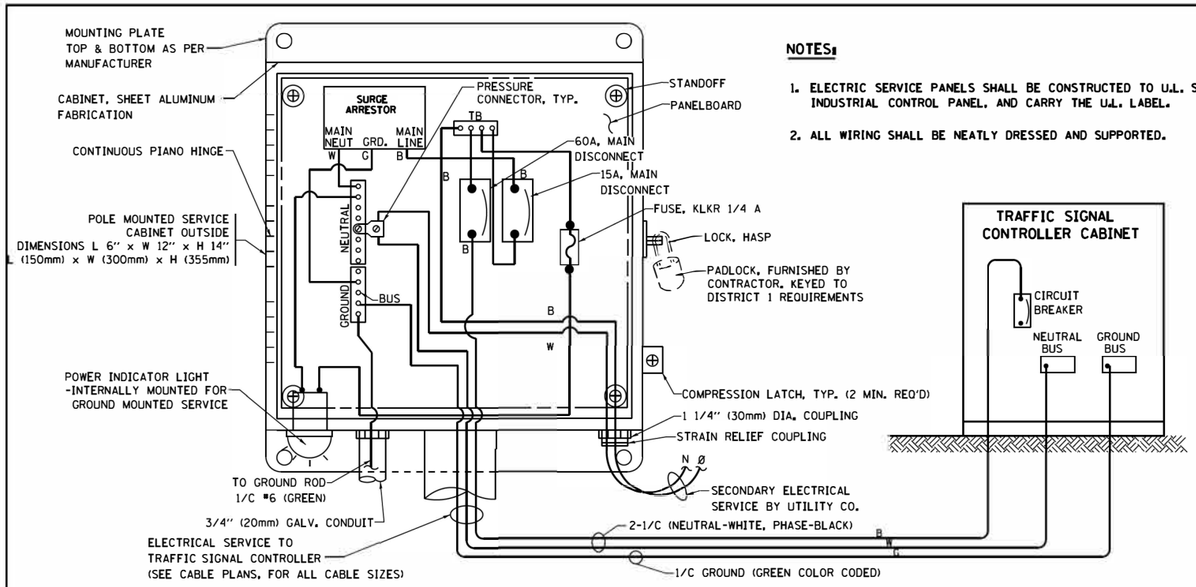
FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(110R-1)N	COOK	157	73
	TS-05	CONTRACT NO. 61K16		
	ILLINOIS FED. AID PROJECT			

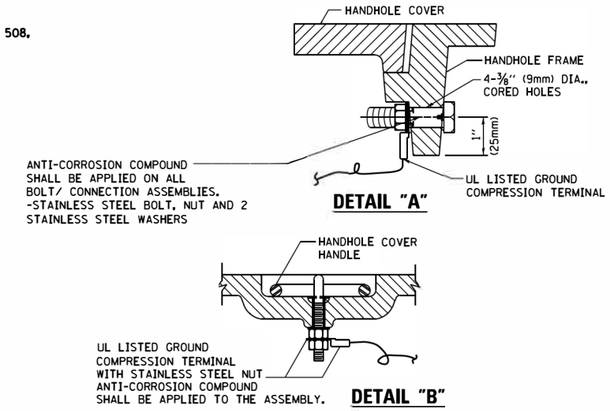


NOTES:

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

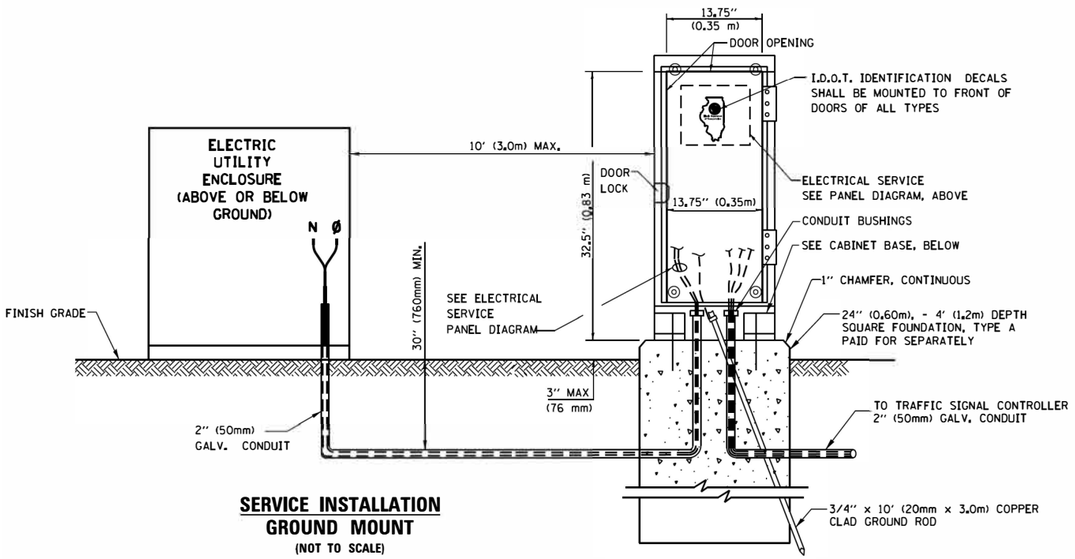
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



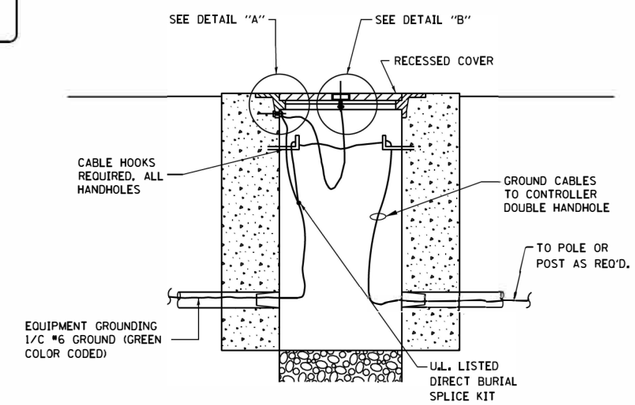
NOTES:
GROUNDING SYSTEM

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



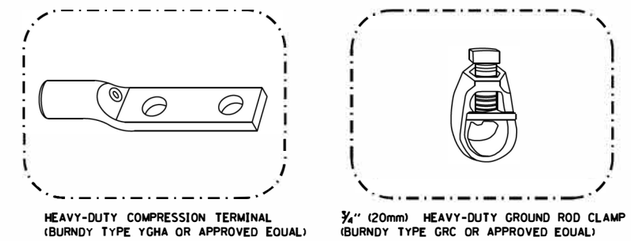
SERVICE INSTALLATION
GROUND MOUNT

(NOT TO SCALE)



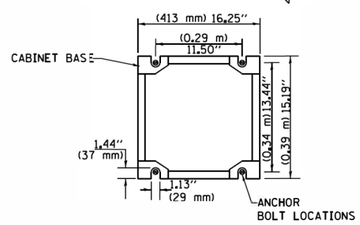
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



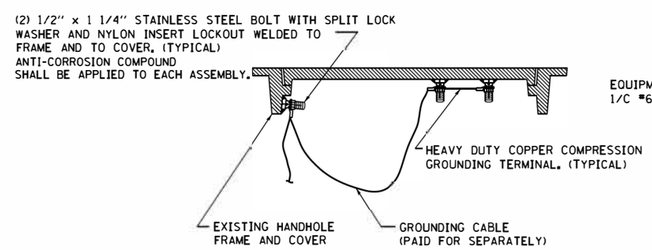
NOTES:

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



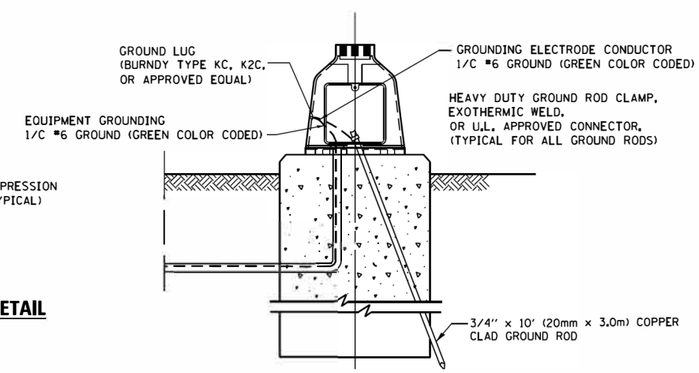
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

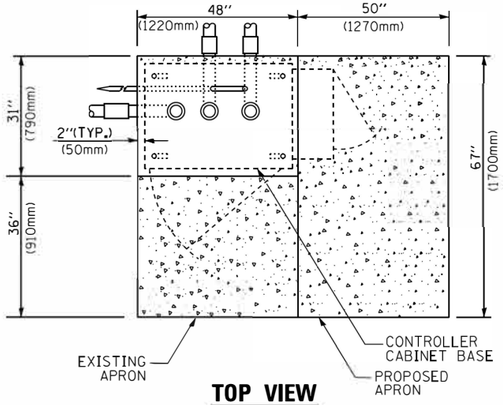


MAST ARM POLE / POST–GROUNDING DETAIL

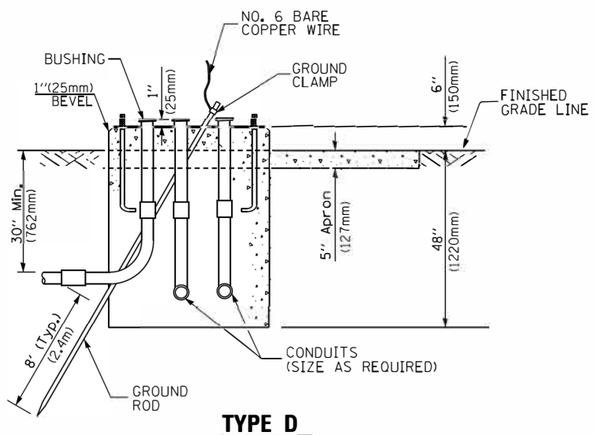
(NOT TO SCALE)

TS SHT NO. 4

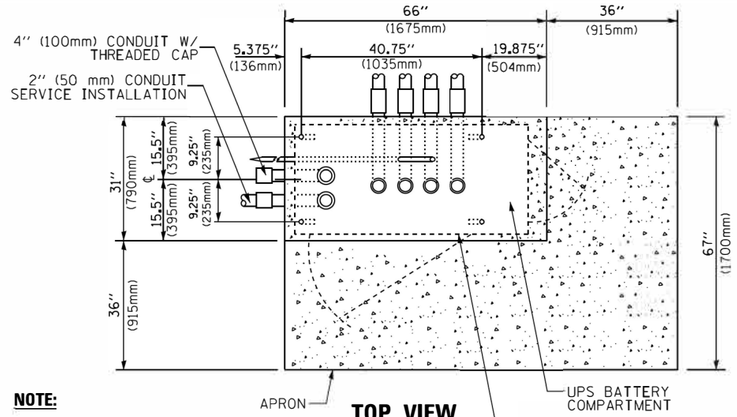
FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN -	REVISED -			338	(110R-1)N	COOK	157 / 74
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -				TS-05	CONTRACT NO. 61K16	
	PLOT DATE = 5/17/2016	DATE -	REVISED -		SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT	



TOP VIEW



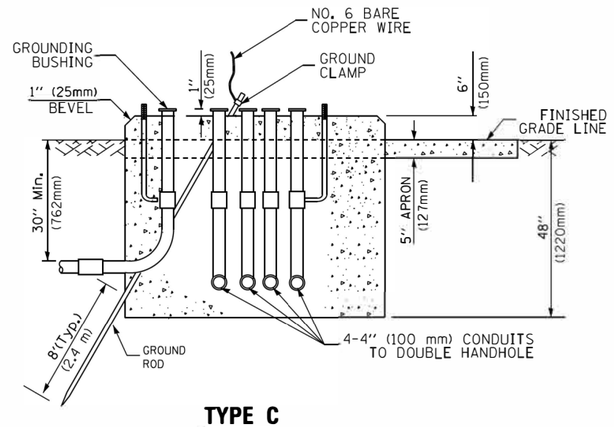
TYPE D
FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



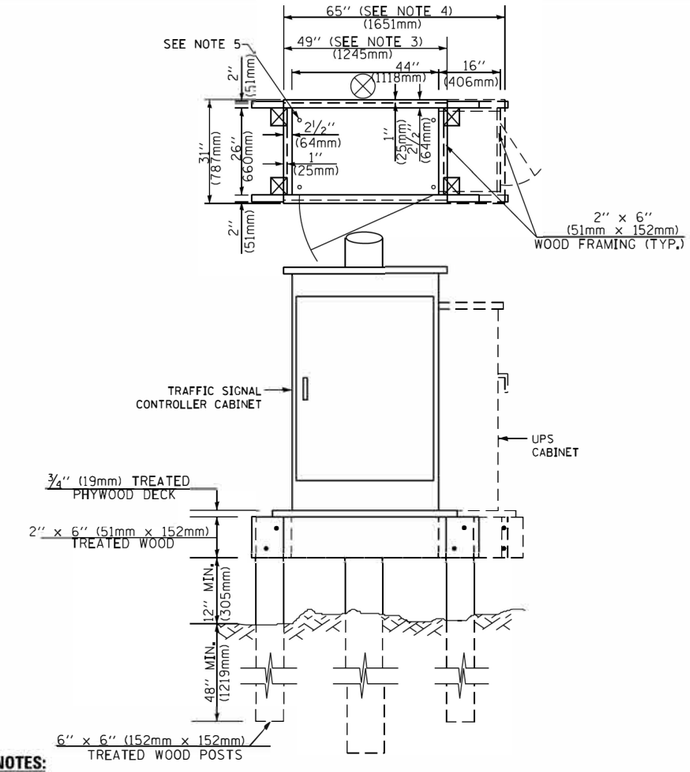
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

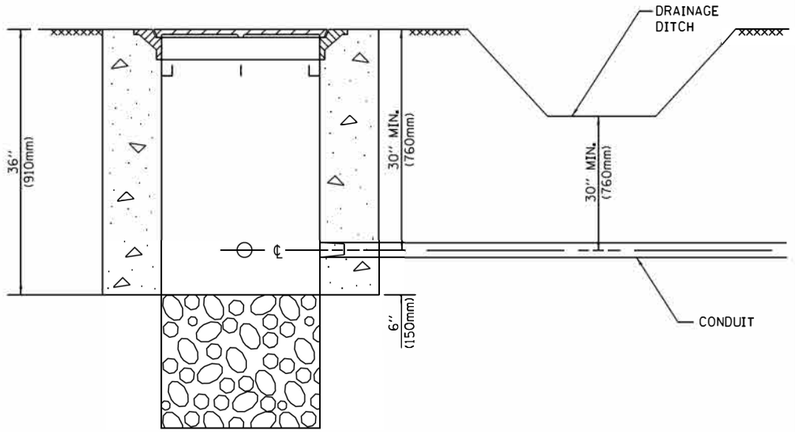
FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(110R-1)N	COOK	157	75
	TS-05	CONTRACT NO. 61K16		
	ILLINOIS FED. AID PROJECT			

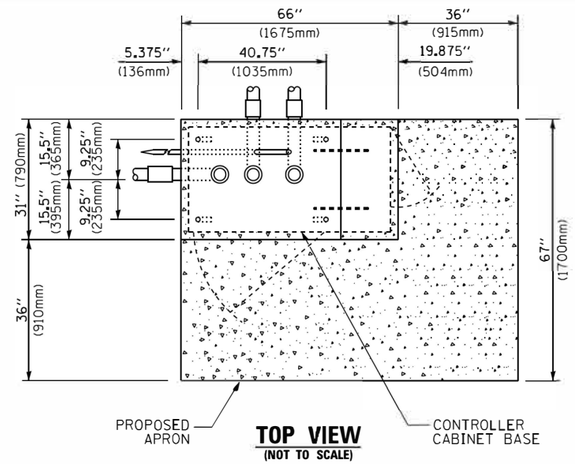


NOTES:

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

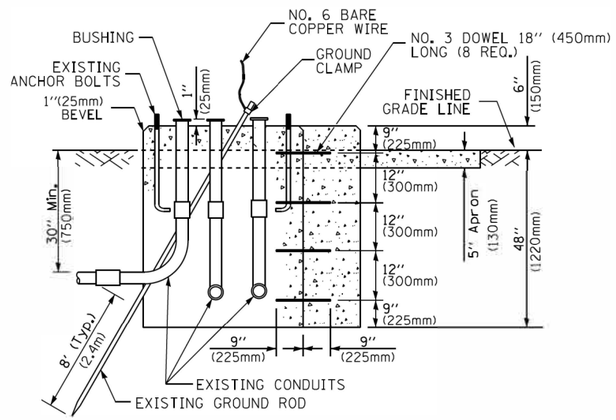
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



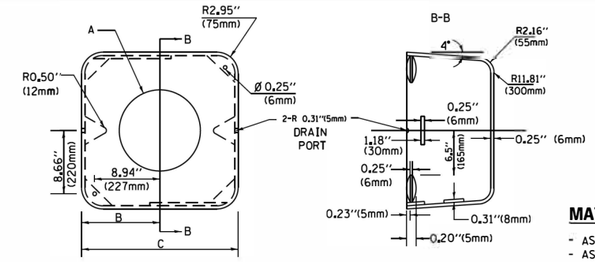
TOP VIEW

(NOT TO SCALE)



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

(NOT TO SCALE)



MATERIAL:

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

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

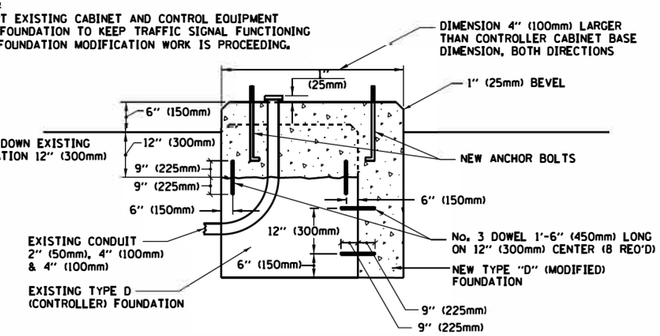
SHROUD

NOTES:

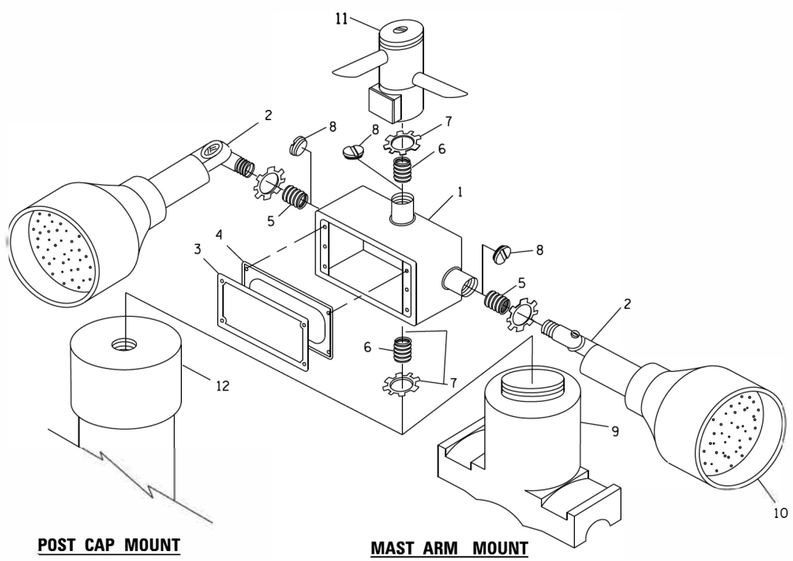
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

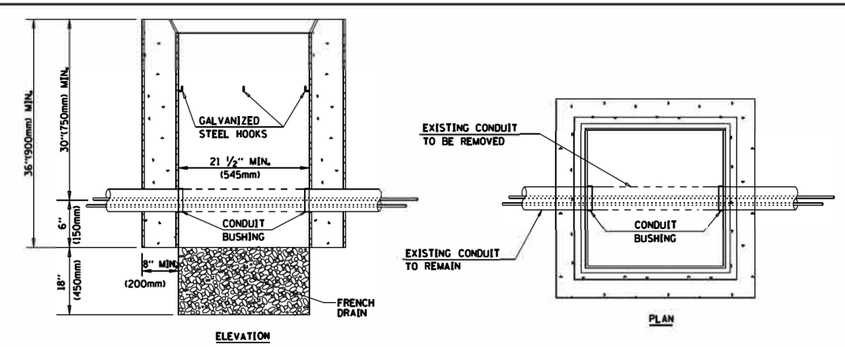
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

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



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

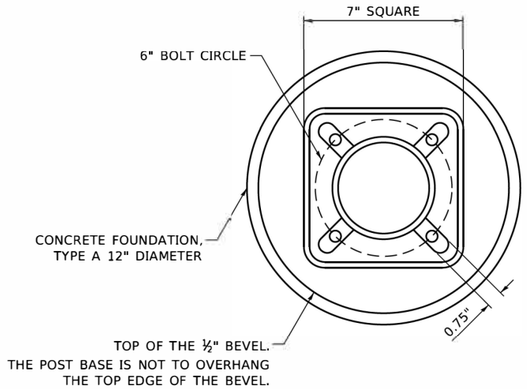
FILE NAME =	USER NAME = plascencia1	DESIGNED -	REVISED -
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. TO STA.

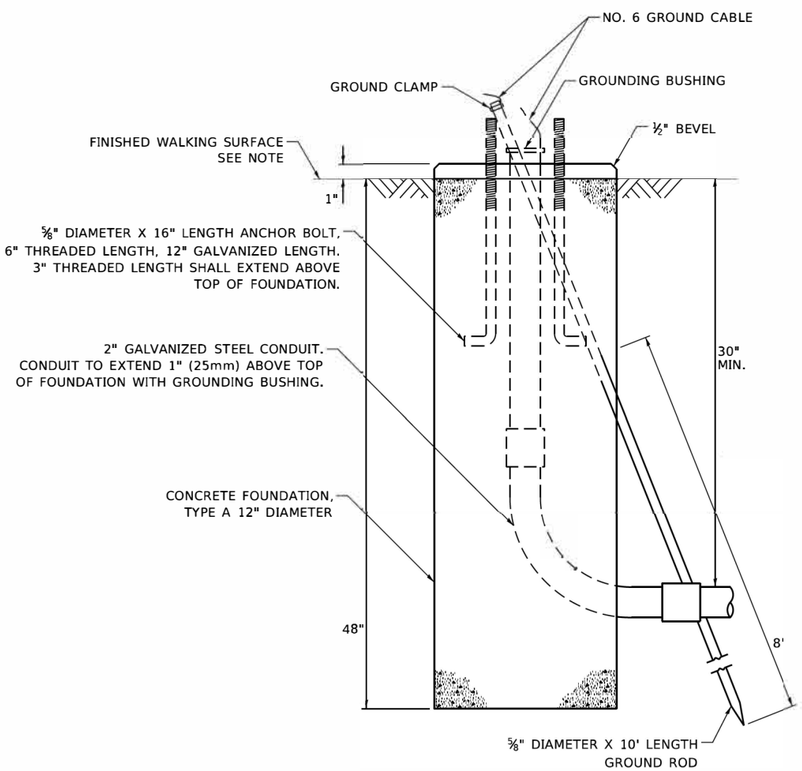
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(11)0R-1)N	COOK	157	76
	TS-05	CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		



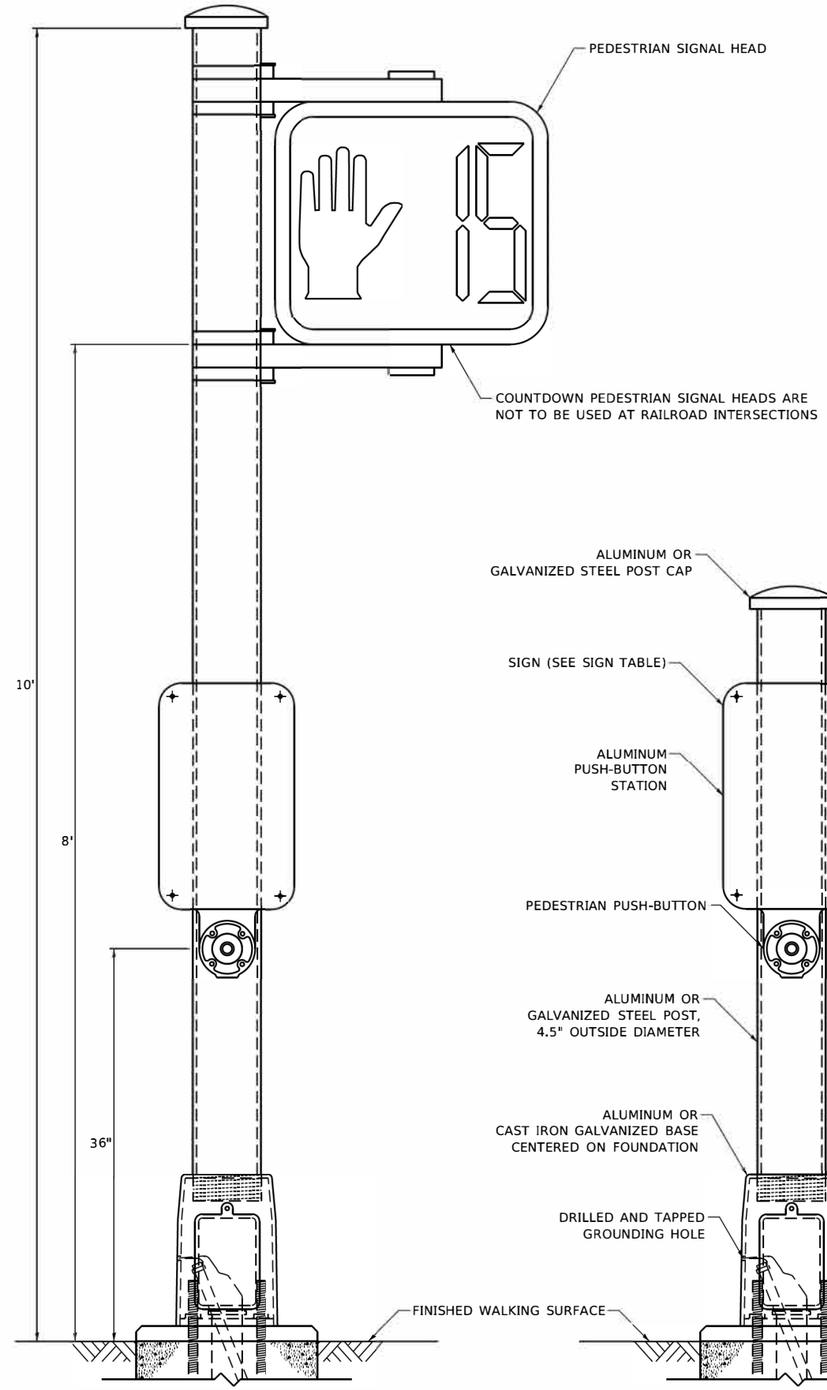
BOLT PATTERN

NOTE:

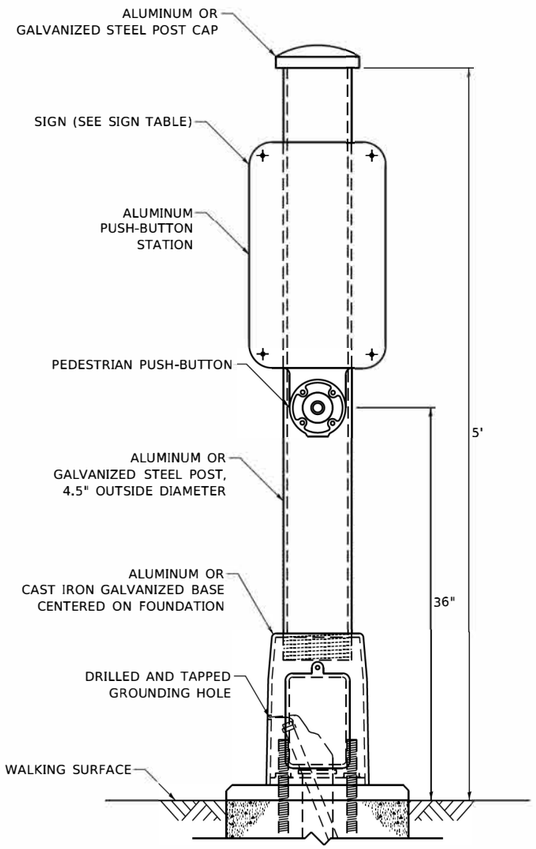
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



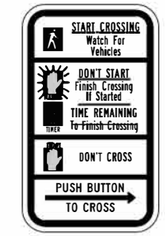
PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

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.

MODEL: Default
FILE NAME: S:\WP\Design\ovsm\11-Other\Pedestrian\Post\PedestrianSignalPost_Working\IL-DO-MOT-UISE.dgn

DELTA ENGINEERING GROUP

USER NAME = plascencia	DESIGNED - IP	REVISED - 10/15/2020	
	DRAWN - IP	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 11/17/2020	DATE - 10/15/2018	REVISED -	

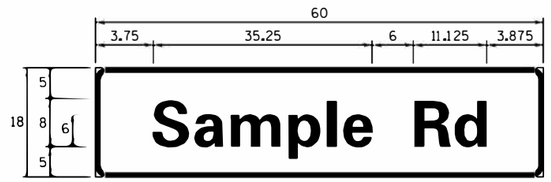
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

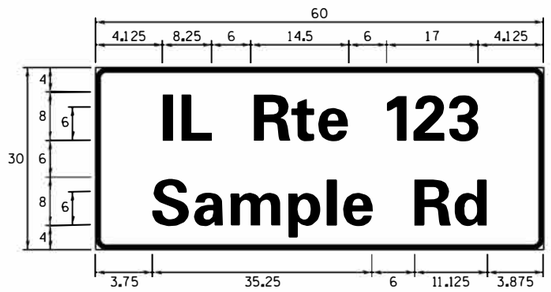
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

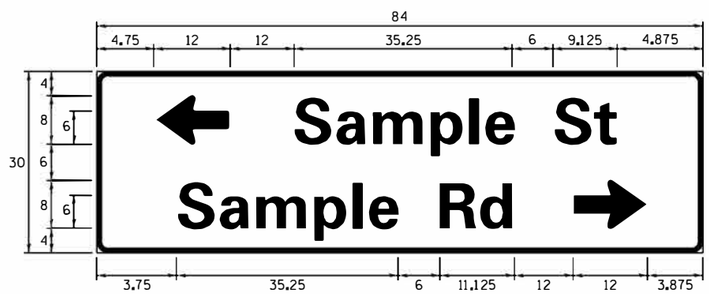
SCALE: NTS | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			157	77
	TS-05	CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2







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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

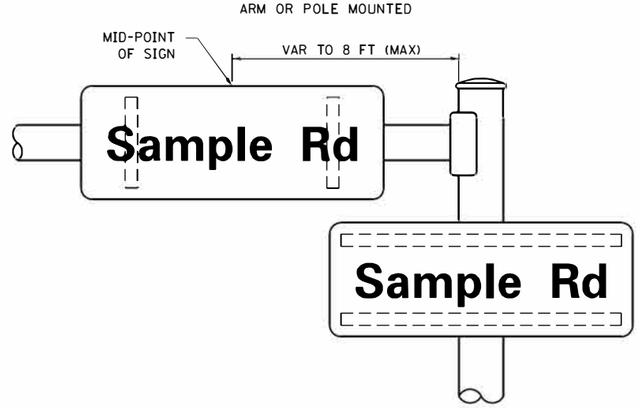
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

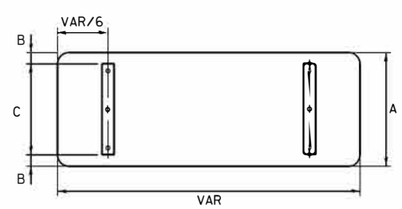
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

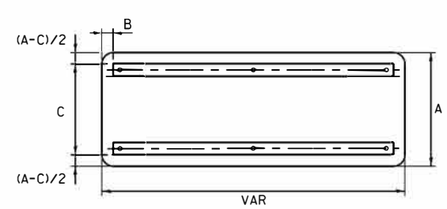
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



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



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

STANDARD ALPHABETS SPACING CHART

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

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

TS SHT NO. 8

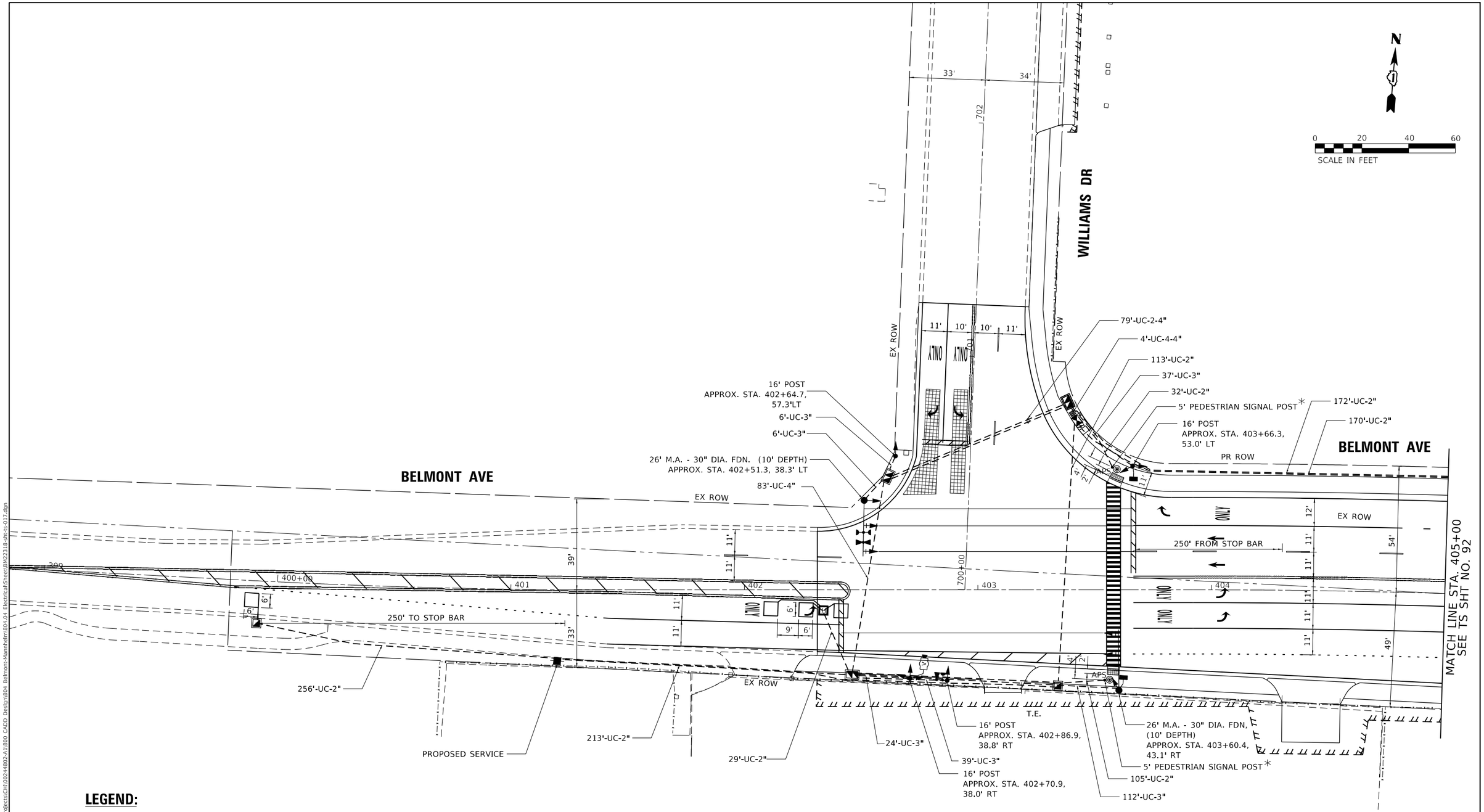
FILE NAME =	USER NAME = plescencia	DESIGNED - LP/IP	REVISED - LP 07/01/2015
DELTA ENGINEERING GROUP	TSExample01-sht-ts.dgn	DRAWN - LP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - IP	REVISED -
	PLOT DATE = 5/17/2016	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(110R-1)N	COOK	157	78
	TS-02	CONTRACT NO. 61K16		
	ILLINOIS FED. AID PROJECT			



LEGEND:

VIDEO DETECTION ZONE

* THE PEDESTRIAN PUSH BUTTON SHOULD NOT BE MORE THAN 6' FROM EDGE OF PAVEMENT.

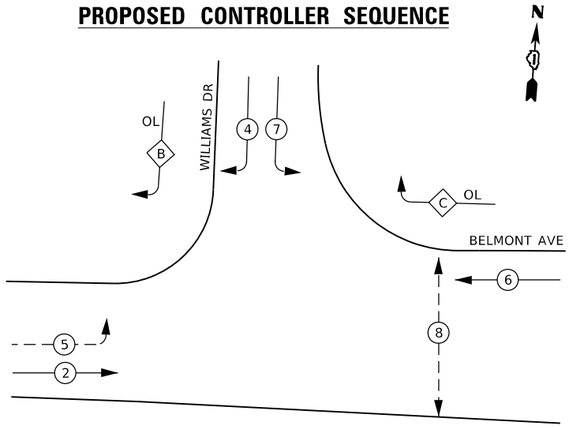
NOTE:

1. CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON ALL LEGS OF THIS INTERSECTION PRIOR TO TURNING ON THIS SIGNAL.

MODEL: Default
FILE NAME: pw:\\exp-pw.bentley.com:exp-pw-01\Documents\Projects\CH\00244802-A\1800 CADD Des\jn\804 Belmont-Mannheim\804-04 Electrical\Sheets\BM22318-ph-ts-017.dgn

FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN BELMONT AVE & WILLIAMS DR	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157 / 79
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



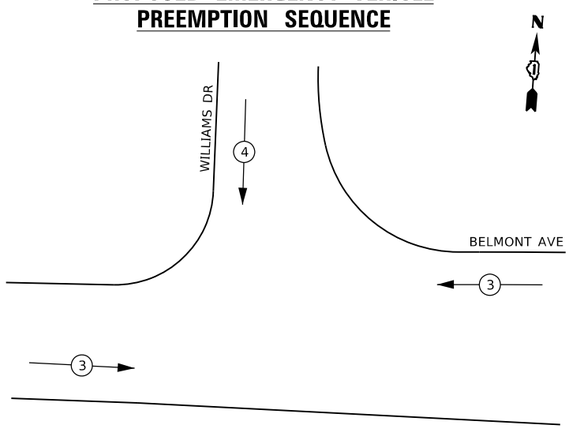
LEGEND

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

RIGHT TURN OVERLAP PHASE DESIGNATION

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

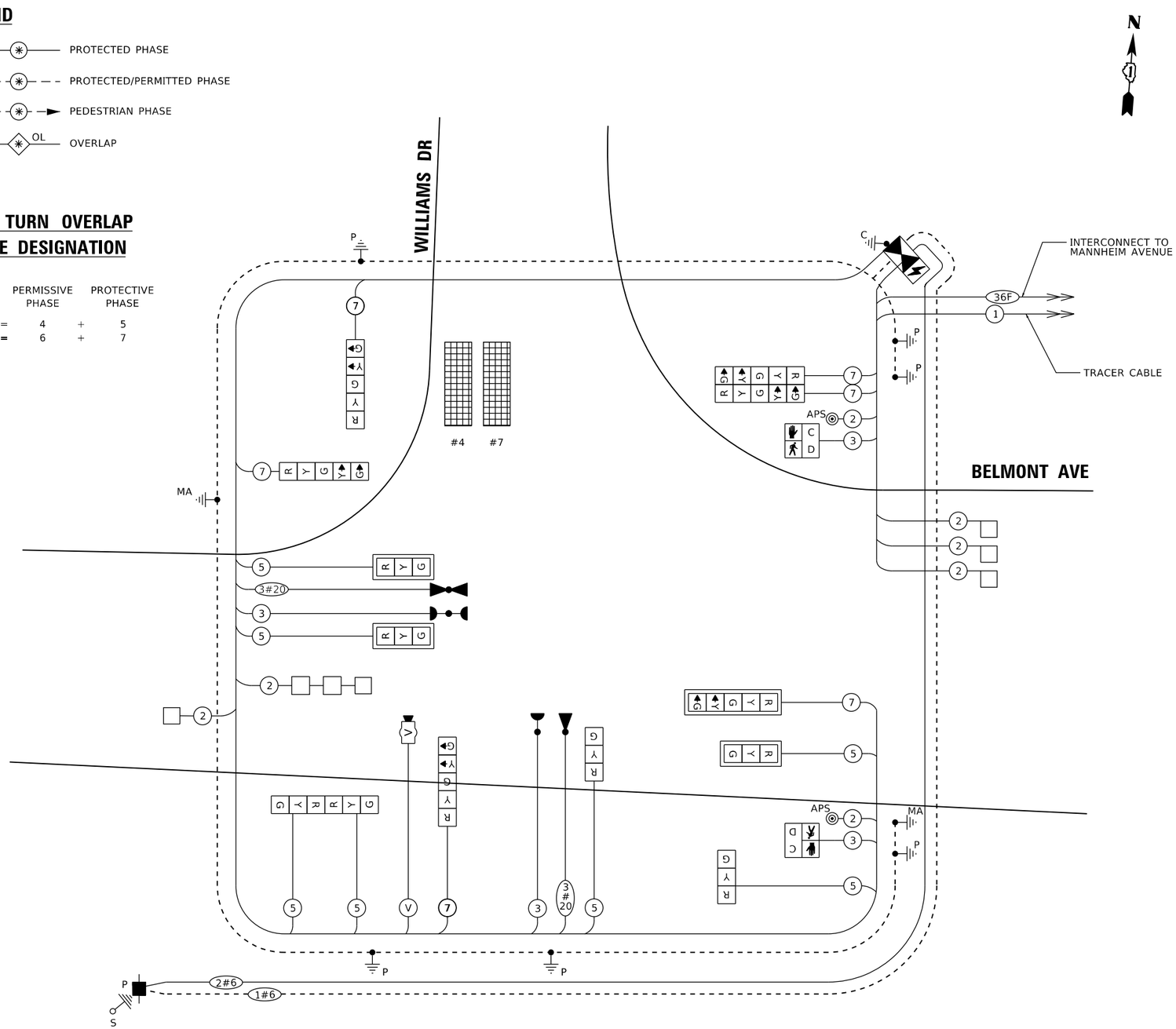


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINARE	-	-	-	-
			TOTAL =	399.8

ENERGY COSTS TO:
VILLAGE OF FRANKLIN PARK
9500 BELMONT AVENUE
FRANKLIN PARK, IL 60131

ENERGY SUPPLY CONTACT: VILLAGE OF FRANKLIN PARK
PHONE: (847) 671-4800
COMPANY: ComEd



CABLE PLAN
(NOT TO SCALE)

MODEL: Default
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FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -
		DRAWN - NS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
DELTA ENGINEERING GROUP	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

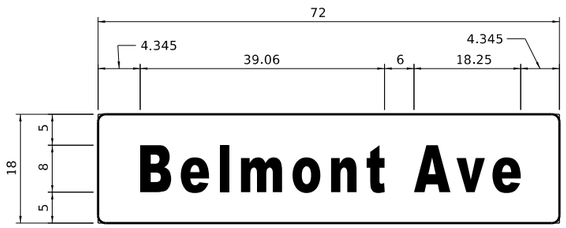
CABLE PLAN, PHASE DESIGNATION DIAGRAM & EMERGENCY VEHICLE PREEMPTION SEQUENCE – BELMONT AVE & WILLIAMS DR

SCALE: SHEET OF SHEETS STA. TO STA.

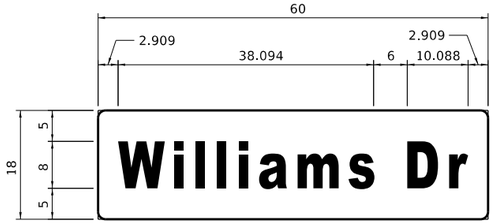
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	80
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	9	1	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	7.5	1	ZZ	2

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

SCHEDULE OF QUANTITIES

ITEM DECRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	24
SERVICE INSTALLATION-POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1005
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	272
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	253
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	409
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	906
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1984
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1126
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1110
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	326
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	806
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET 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	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	245
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	476
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	1

REMOVAL, RELOCATION AND ITEMS TO REMAIN NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE EXCEPT THE CONTROLLER AND CABINET WHICH SHOULD BE RETURNED TO THE STATE SPARE PART DEPARTMENT. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

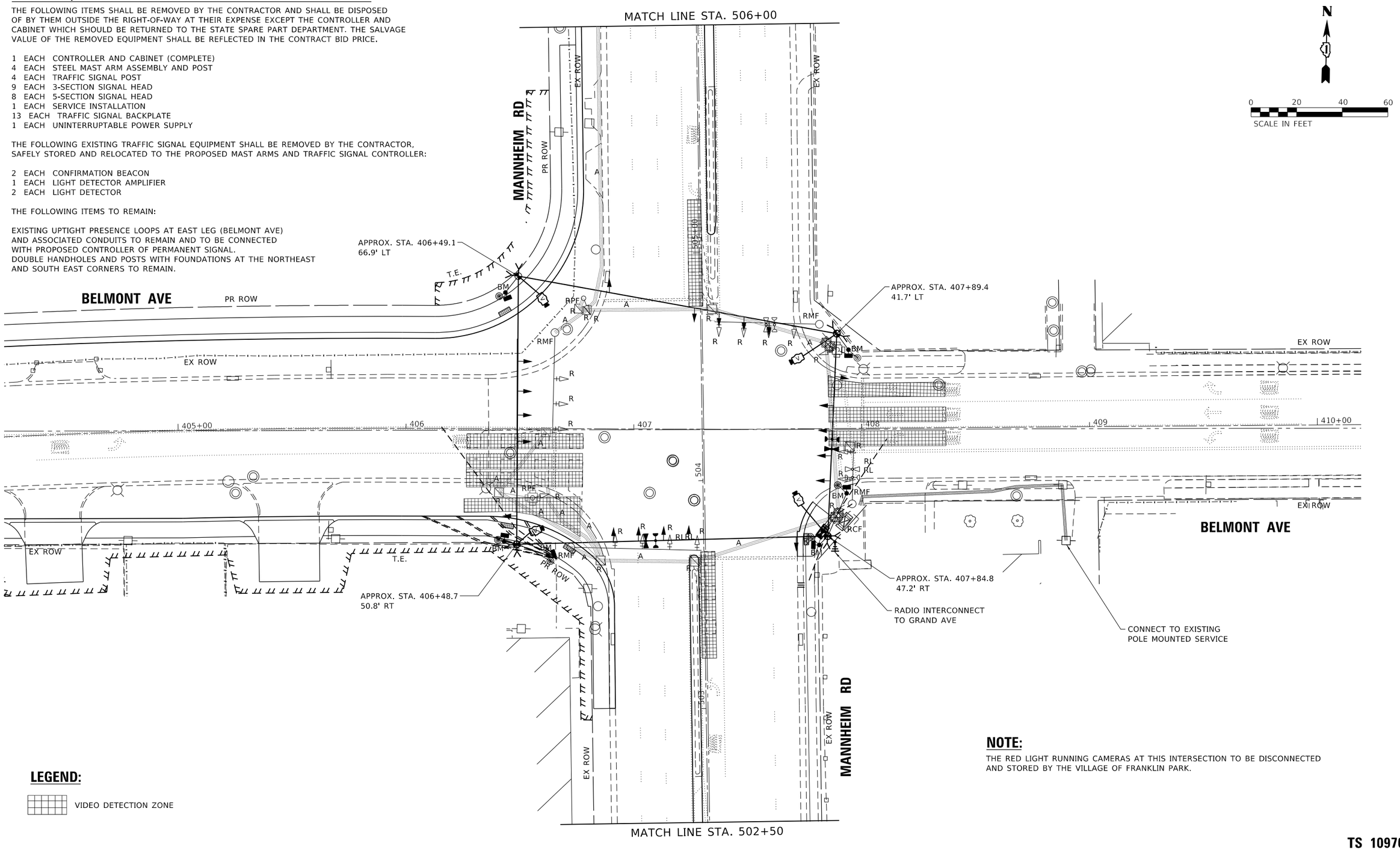
1 EACH CONTROLLER AND CABINET (COMPLETE)
4 EACH STEEL MAST ARM ASSEMBLY AND POST
4 EACH TRAFFIC SIGNAL POST
9 EACH 3-SECTION SIGNAL HEAD
8 EACH 5-SECTION SIGNAL HEAD
1 EACH SERVICE INSTALLATION
13 EACH TRAFFIC SIGNAL BACKPLATE
1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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

THE FOLLOWING ITEMS TO REMAIN:

EXISTING UPTIGHT PRESENCE LOOPS AT EAST LEG (BELMONT AVE) AND ASSOCIATED CONDUITS TO REMAIN AND TO BE CONNECTED WITH PROPOSED CONTROLLER OF PERMANENT SIGNAL.
DOUBLE HANDHOLES AND POSTS WITH FOUNDATIONS AT THE NORTHEAST AND SOUTH EAST CORNERS TO REMAIN.



LEGEND:

VIDEO DETECTION ZONE

NOTE:

THE RED LIGHT RUNNING CAMERAS AT THIS INTERSECTION TO BE DISCONNECTED AND STORED BY THE VILLAGE OF FRANKLIN PARK.

TS 10970
ECON 38

MODEL: Default
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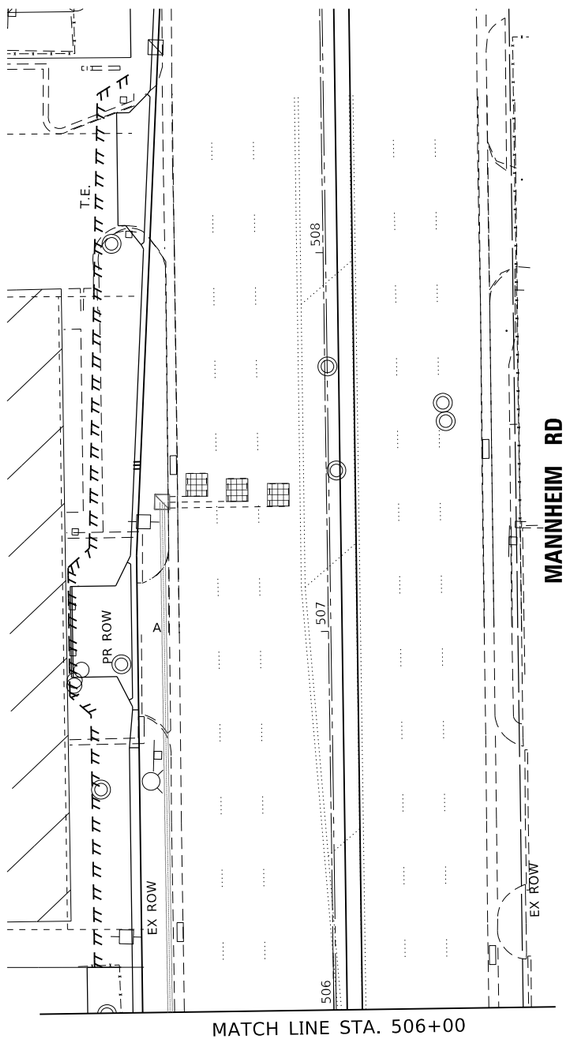
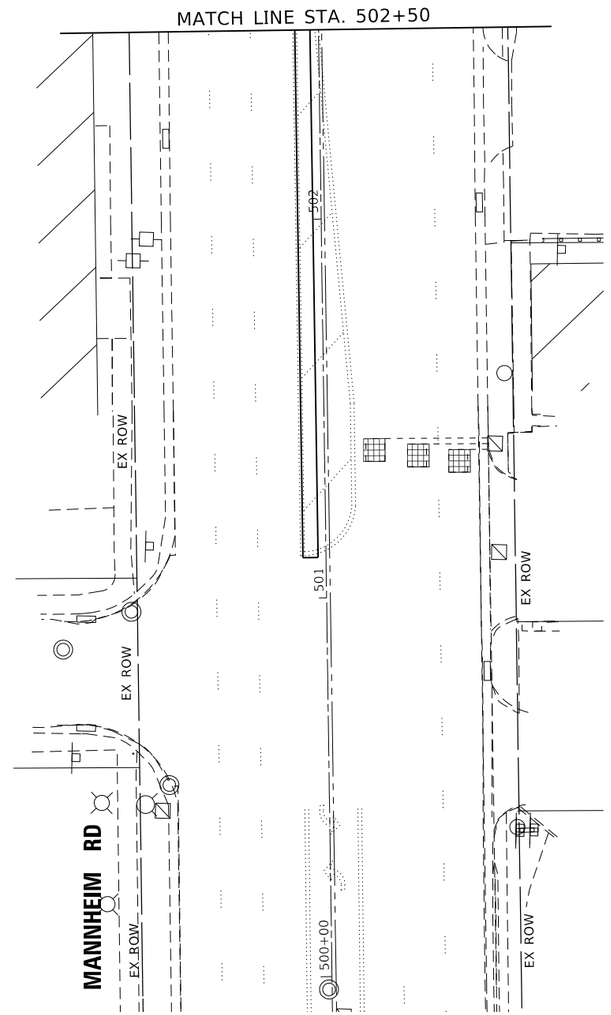
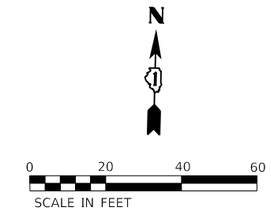
FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMP TRAFFIC SIGNAL INSTALLATION PLAN & REMOVE EXIST TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 2) US 12–45 (MANNHEIM RD) & BELMONT AVE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157	82
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -					CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	







LEGEND:

VIDEO DETECTION ZONE

TS 10970
ECON 38

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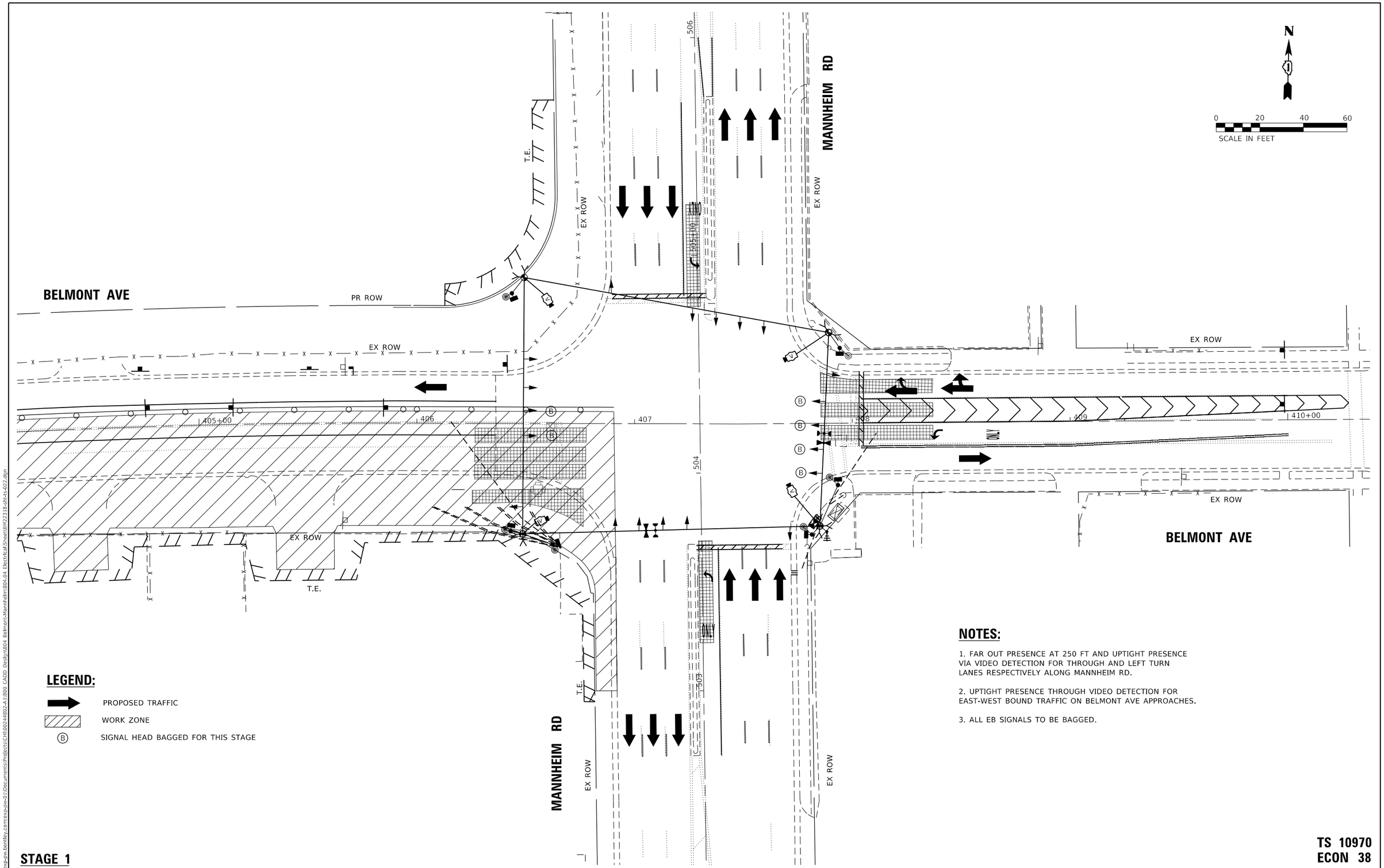
FILE NAME = sFILELS5	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMP TRAFFIC SIGNAL INSTALLATION PLAN & REMOVE EXIST TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 2) US 12–45 (MANNHEIM RD) & BELMONT AVE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157	83
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -			CONTRACT NO. 61K16				
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT			



LEGEND:

- PROPOSED TRAFFIC
- WORK ZONE
- (B) SIGNAL HEAD BAGGED FOR THIS STAGE

NOTES:

1. FAR OUT PRESENCE AT 250 FT AND UPTIGHT PRESENCE VIA VIDEO DETECTION FOR THROUGH AND LEFT TURN LANES RESPECTIVELY ALONG MANNHEIM RD.

2. UPTIGHT PRESENCE THROUGH VIDEO DETECTION FOR EAST-WEST BOUND TRAFFIC ON BELMONT AVE APPROACHES.

3. ALL EB SIGNALS TO BE BAGGED.

STAGE 1

TS 10970
ECON 38

MODEL: Default
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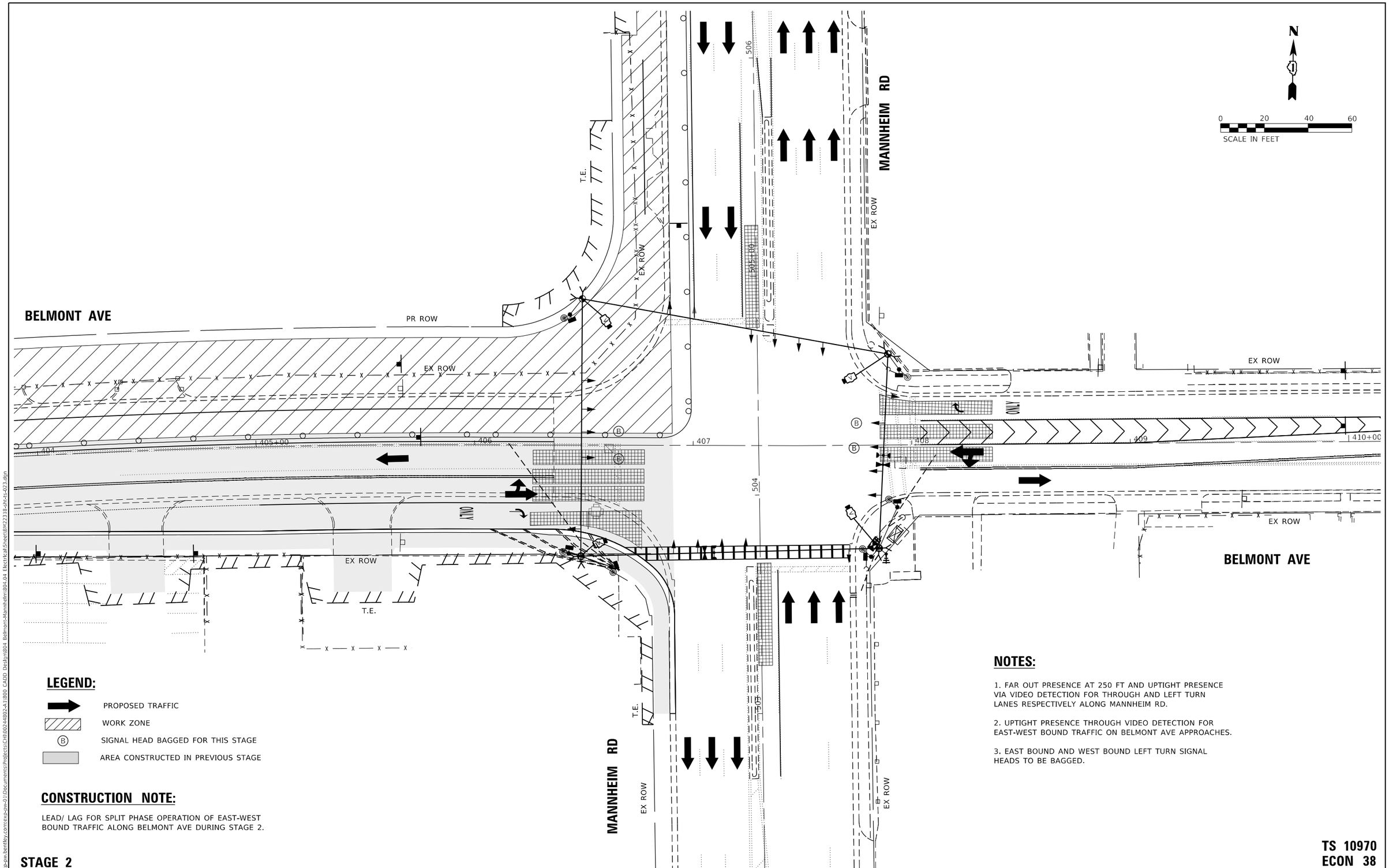
FILE NAME = $FILEL$$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1 (SHEET 1 OF 4) US 12–45 (MANNHEIM RD) & BELMONT AVE
DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	84
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



LEGEND:

- PROPOSED TRAFFIC
- WORK ZONE
- (B) SIGNAL HEAD BAGGED FOR THIS STAGE
- AREA CONSTRUCTED IN PREVIOUS STAGE

CONSTRUCTION NOTE:

LEAD/ LAG FOR SPLIT PHASE OPERATION OF EAST-WEST BOUND TRAFFIC ALONG BELMONT AVE DURING STAGE 2.

NOTES:

1. FAR OUT PRESENCE AT 250 FT AND UPTIGHT PRESENCE VIA VIDEO DETECTION FOR THROUGH AND LEFT TURN LANES RESPECTIVELY ALONG MANNHEIM RD.

2. UPTIGHT PRESENCE THROUGH VIDEO DETECTION FOR EAST-WEST BOUND TRAFFIC ON BELMONT AVE APPROACHES.

3. EAST BOUND AND WEST BOUND LEFT TURN SIGNAL HEADS TO BE BAGGED.

STAGE 2

TS 10970
ECON 38

FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -
		DRAWN - NS	REVISED -
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2
(SHEET 2 OF 4) US 12–45 (MANNHEIM RD) & BELMONT AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	85
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

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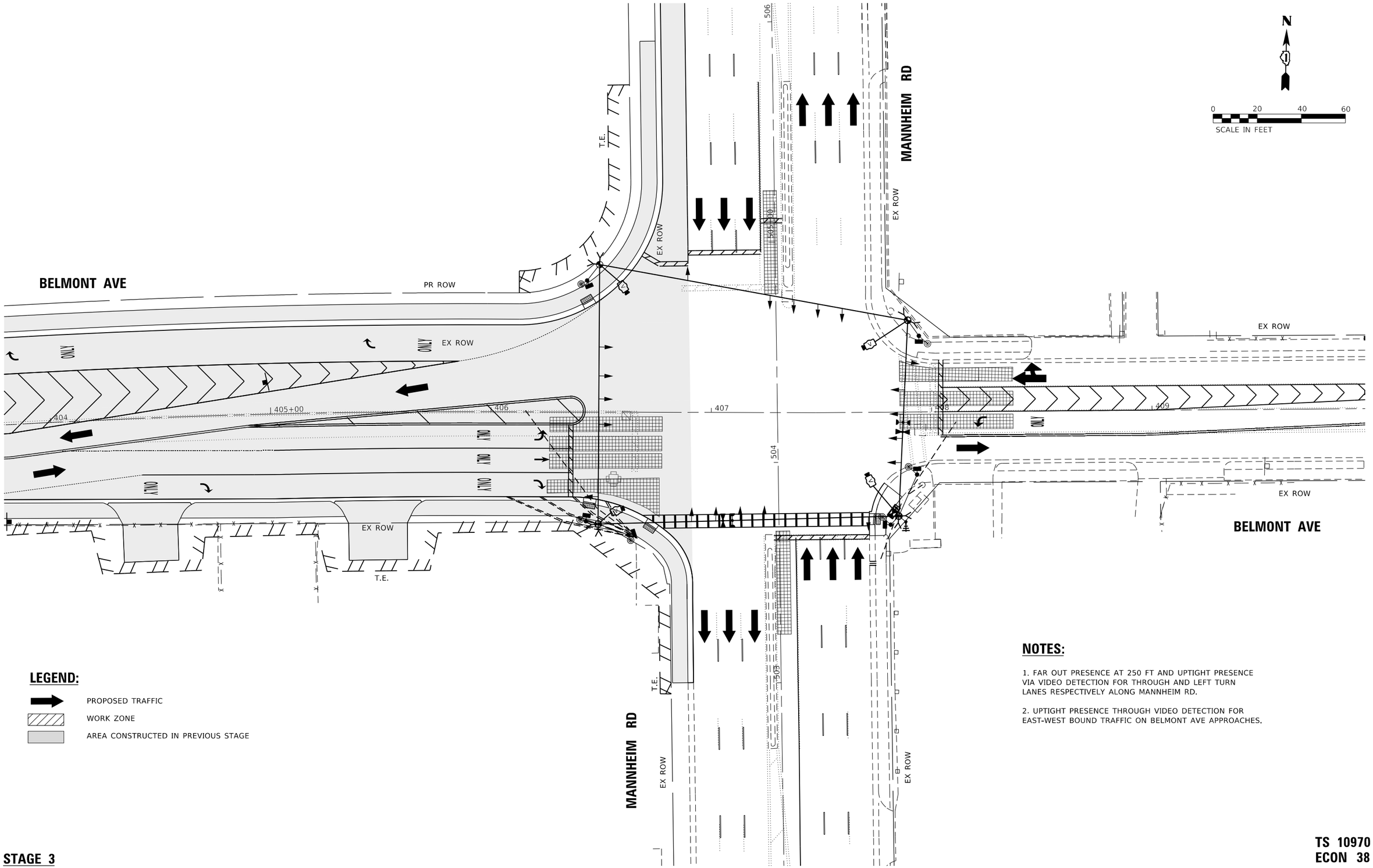

LEGEND:

- PROPOSED TRAFFIC
- WORK ZONE
- AREA CONSTRUCTED IN PREVIOUS STAGE

NOTES:

1. FAR OUT PRESENCE AT 250 FT AND UPTIGHT PRESENCE VIA VIDEO DETECTION FOR THROUGH AND LEFT TURN LANES RESPECTIVELY ALONG MANNHEIM RD.

2. UPTIGHT PRESENCE THROUGH VIDEO DETECTION FOR EAST-WEST BOUND TRAFFIC ON BELMONT AVE APPROACHES.

STAGE 3

TS 10970
ECON 38

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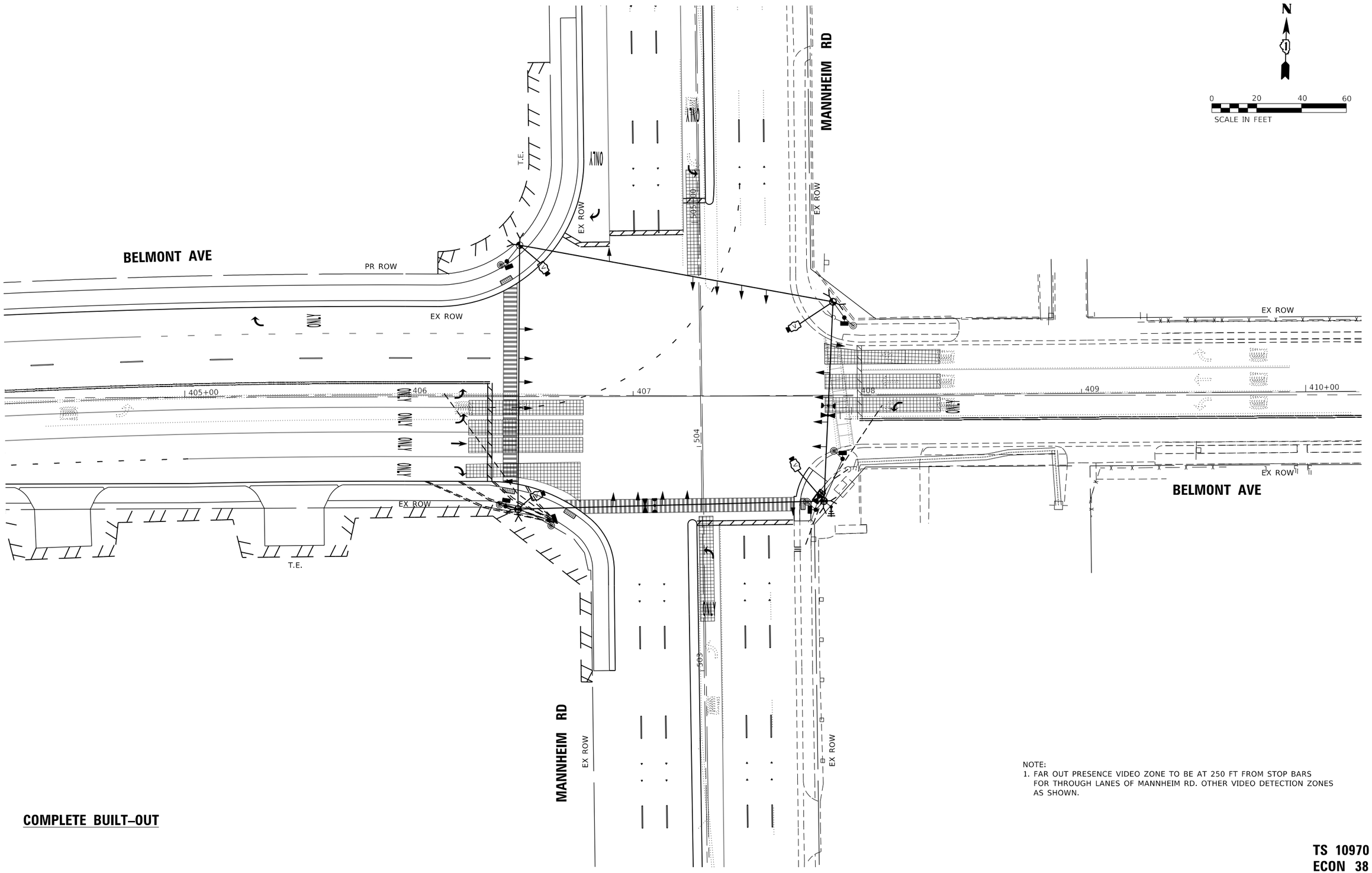
FILE NAME = $FILEL$$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 3 (SHEET 3 OF 4) US 12–45 (MANNHEIM RD) & BELMONT AVE
DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	86
		CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		



NOTE:
1. FAR OUT PRESENCE VIDEO ZONE TO BE AT 250 FT FROM STOP BARS FOR THROUGH LANES OF MANNHEIM RD. OTHER VIDEO DETECTION ZONES AS SHOWN.

COMPLETE BUILT–OUT

TS 10970
ECON 38

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DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -	
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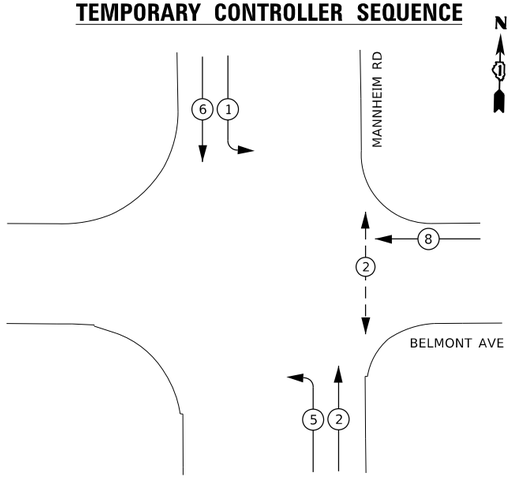
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – COMPLETE BUILT OUT
(SHEET 4 OF 4) US 12–45 (MANNHEIM RD) & BELMONT AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	87
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY CONTROLLER SEQUENCE

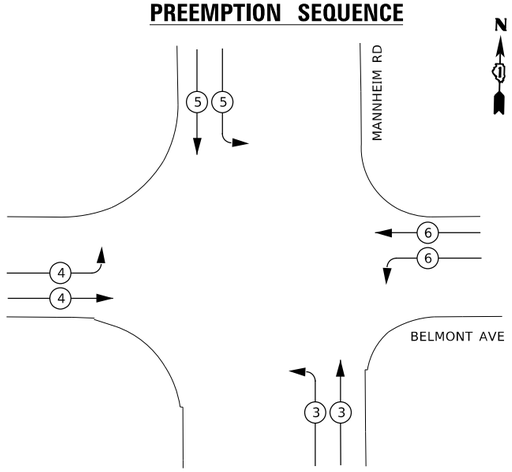


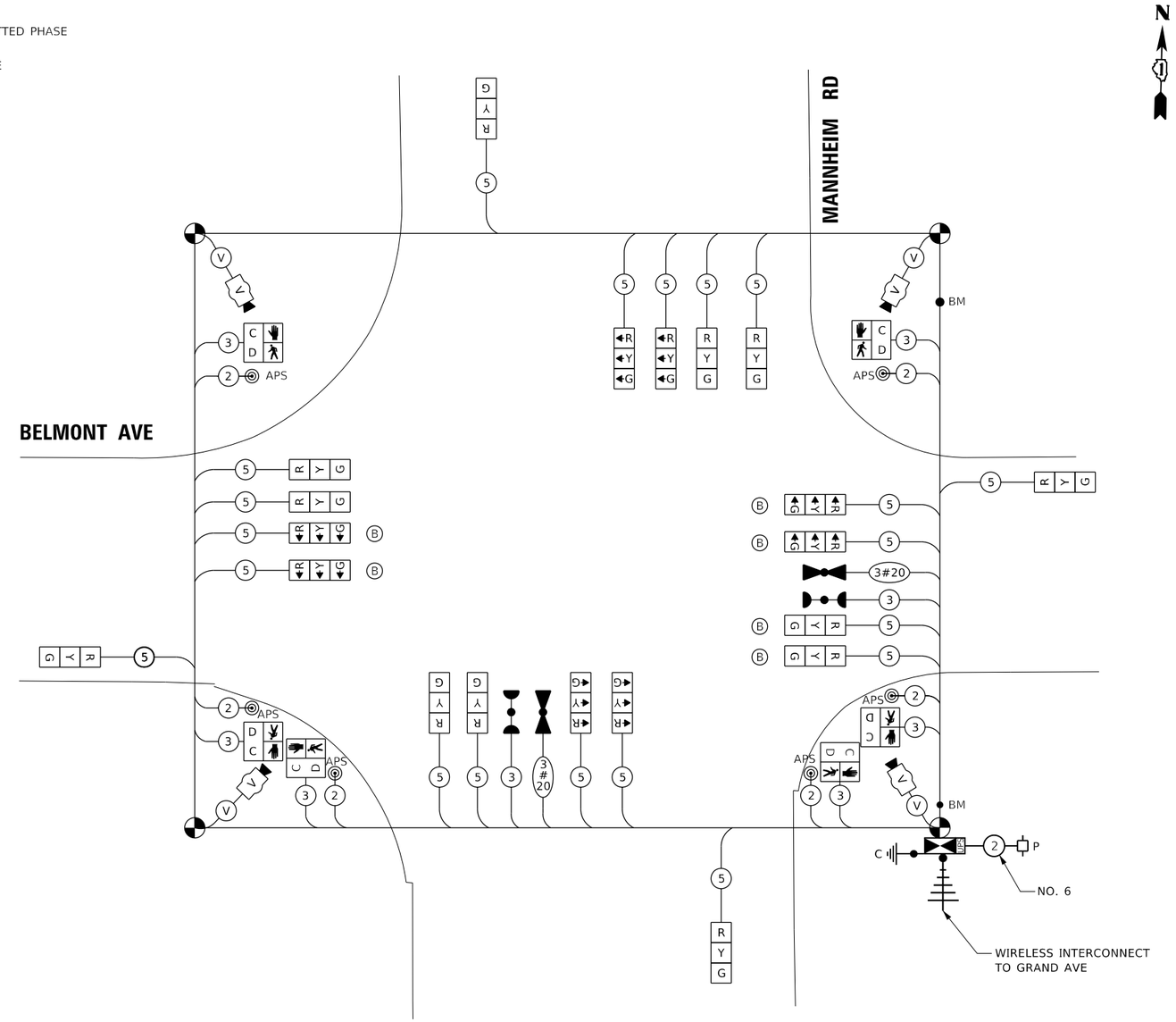
LEGEND

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

STAGE 1

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE





TEMPORARY CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	20	11	220
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			560
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1170

TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

MINIMUM UPS SIZE	1100 WATTS

ENERGY SUPPLY:
PHONE: (866) 639-3532
COMPANY: ---
ACCOUNT NUMBER: 7517571222
METER NUMBER: ---

LEGEND:

Ⓑ SIGNAL HEAD BAGGED FOR THIS STAGE

NOTES:

1. FAR OUT PRESENCE AT 250 FT AND UPTIGHT PRESENCE VIA VIDEO DETECTION FOR THROUGH AND LEFT TURN LANES RESPECTIVELY ALONG MANNHEIM RD.

2. UPTIGHT PRESENCE THROUGH VIDEO DETECTION FOR EAST-WEST BOUND TRAFFIC ON BELMONT AVE APPROACHES.

3. ALL EB SIGNALS TO BE BAGGED.

TS 10970
ECON 38

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

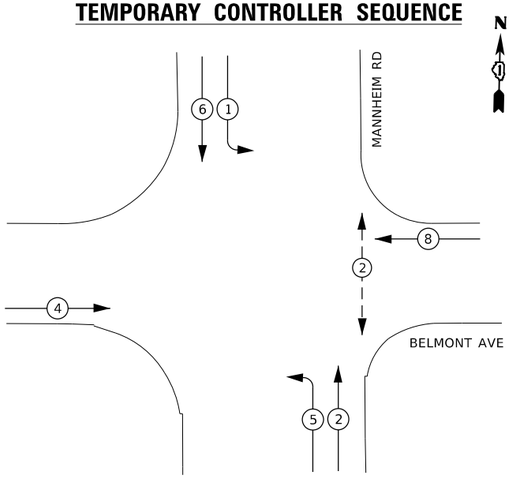
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMP CABLE PL, PH DES DIA & EMERGENCY VEHICLE PREEMP SEQ. – US 12–45 (MANNHEIM RD) & BELMONT AVE – STAGE 1

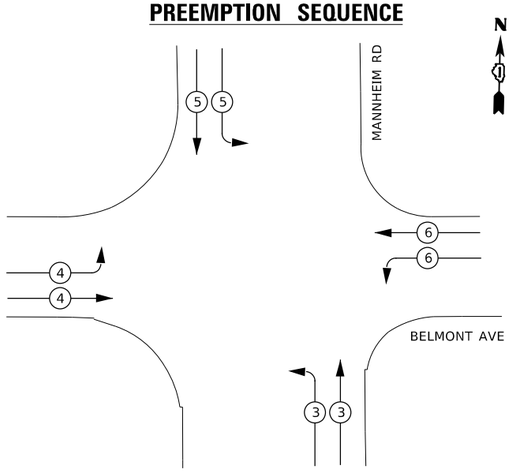
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	88
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY CONTROLLER SEQUENCE



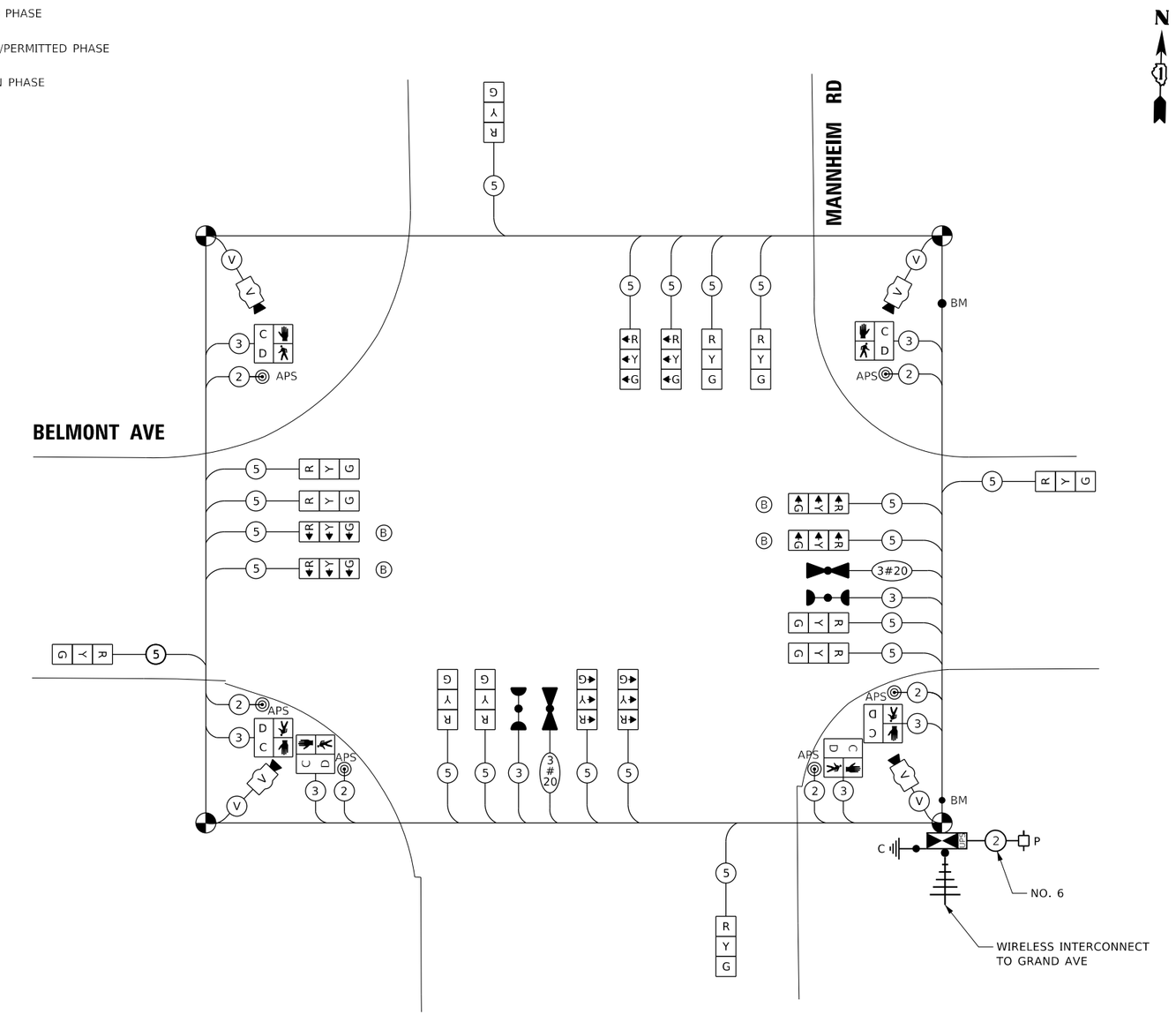
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

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

STAGE 2



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	20	11	220
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			560
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1170

TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

MINIMUM UPS SIZE	1100 WATTS

ENERGY SUPPLY: PHONE: (866) 639-3532
COMPANY: ---
ACCOUNT NUMBER: 7517571222
METER NUMBER: ---

LEGEND:

(B) SIGNAL HEAD BAGGED FOR THIS STAGE

TEMPORARY CABLE PLAN

(NOT TO SCALE)

NOTES:

1. FAR OUT PRESENCE AT 250 FT AND UPTIGHT PRESENCE VIA VIDEO DETECTION FOR THROUGH AND LEFT TURN LANES RESPECTIVELY ALONG MANNHEIM RD.

2. UPTIGHT PRESENCE THROUGH VIDEO DETECTION FOR EAST-WEST BOUND TRAFFIC ON BELMONT AVE APPROACHES.

3. EAST BOUND AND WEST BOUND LEFT TURN SIGNAL HEADS TO BE BAGGED.

TS 10970
ECON 38

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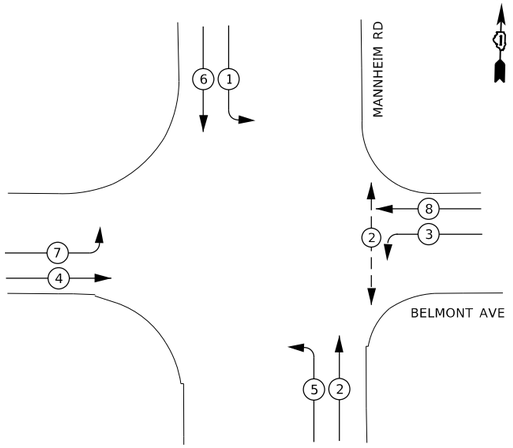
	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

TEMP CABLE PL, PH DES DIA & EMERGENCY VEHICLE PREEMP
SEQ – US 12–45 (MANNHEIM RD) & BELMONT AVE – STAGE 2

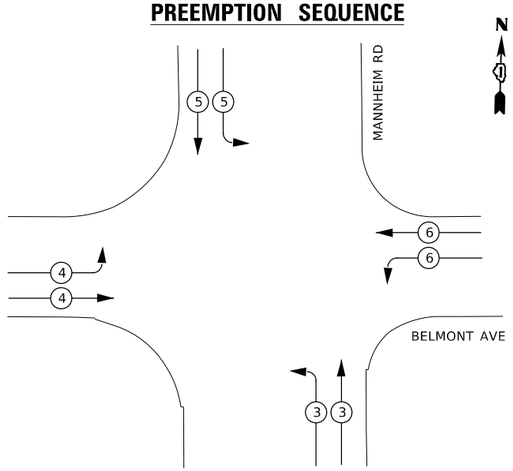
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	89
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY CONTROLLER SEQUENCE



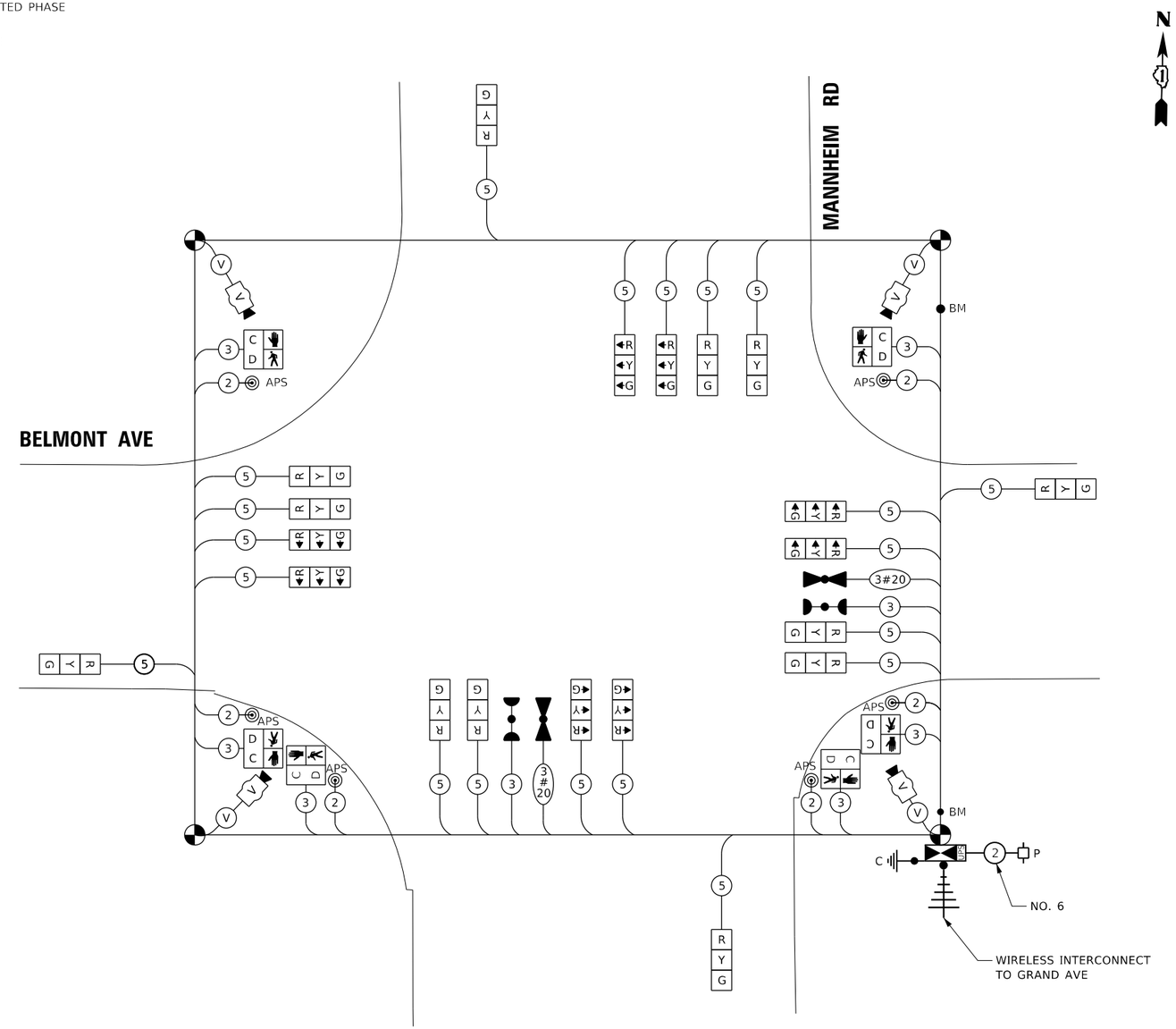
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

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

STAGE 3



TEMPORARY CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	20	11	220
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			560
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1170

TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

MINIMUM UPS SIZE	1100 WATTS

ENERGY SUPPLY:
PHONE: (866) 639-3532
COMPANY: ---
ACCOUNT NUMBER: 7517571222
METER NUMBER: ---

TS 10970
ECON 38

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	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

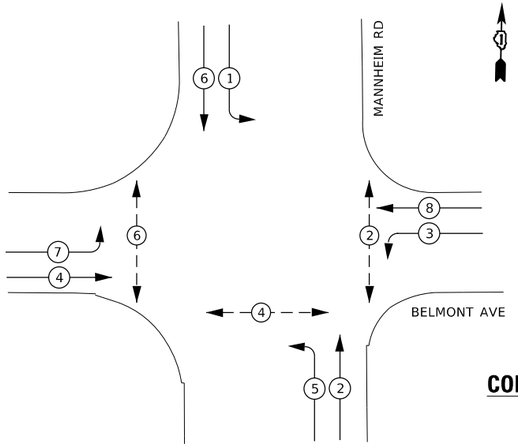
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMP CABLE PL, PH DES DIA & EMERGENCY VEHICLE PREEMP
SEQ – US 12–45 (MANNHEIM RD) & BELMONT AVE – STAGE 3

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	90
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY CONTROLLER SEQUENCE



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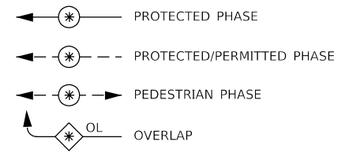
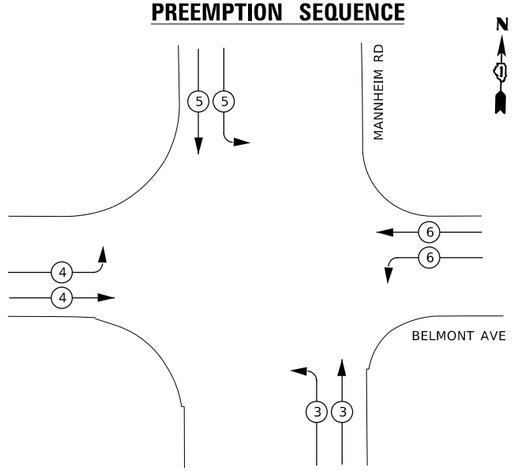
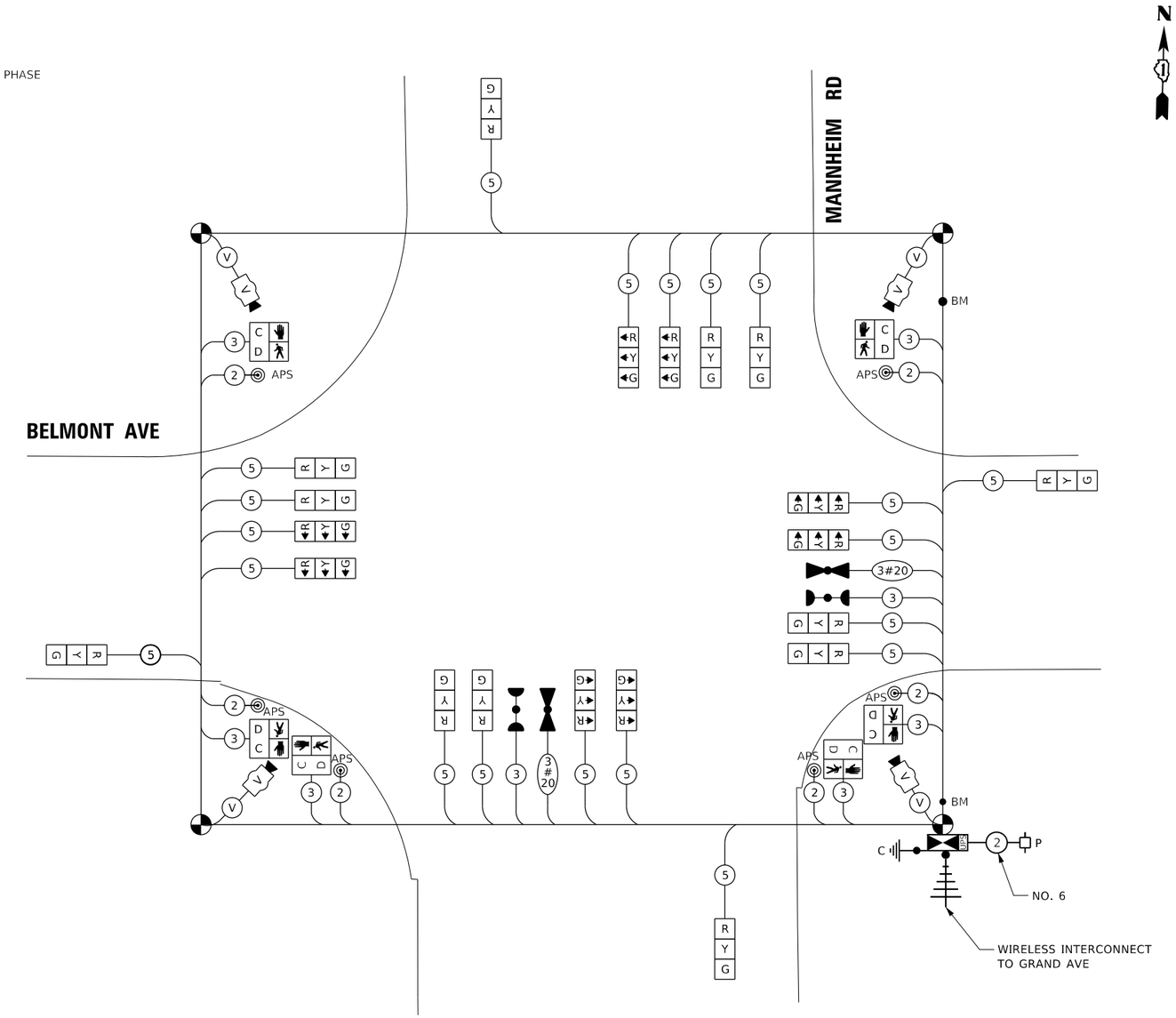


COMPLETE BUILT–OUT

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE





TEMPORARY CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	20	11	220
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			560
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1170

TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

MINIMUM UPS SIZE	1100 WATTS

ENERGY SUPPLY:
PHONE: (866) 639-3532
COMPANY: ---
ACCOUNT NUMBER: 7517571222
METER NUMBER: ---

TS 10970
ECON 38

FILE NAME = $FILEL$$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -
		DRAWN - NS	REVISED -
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMP CABLE PL, PH DES DIA & EMERGENCY VEH PREEMP
SEQ – US 12–45 (MANNHEIM RD) & BELMONT AVE – COMP BL OUT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	91

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT

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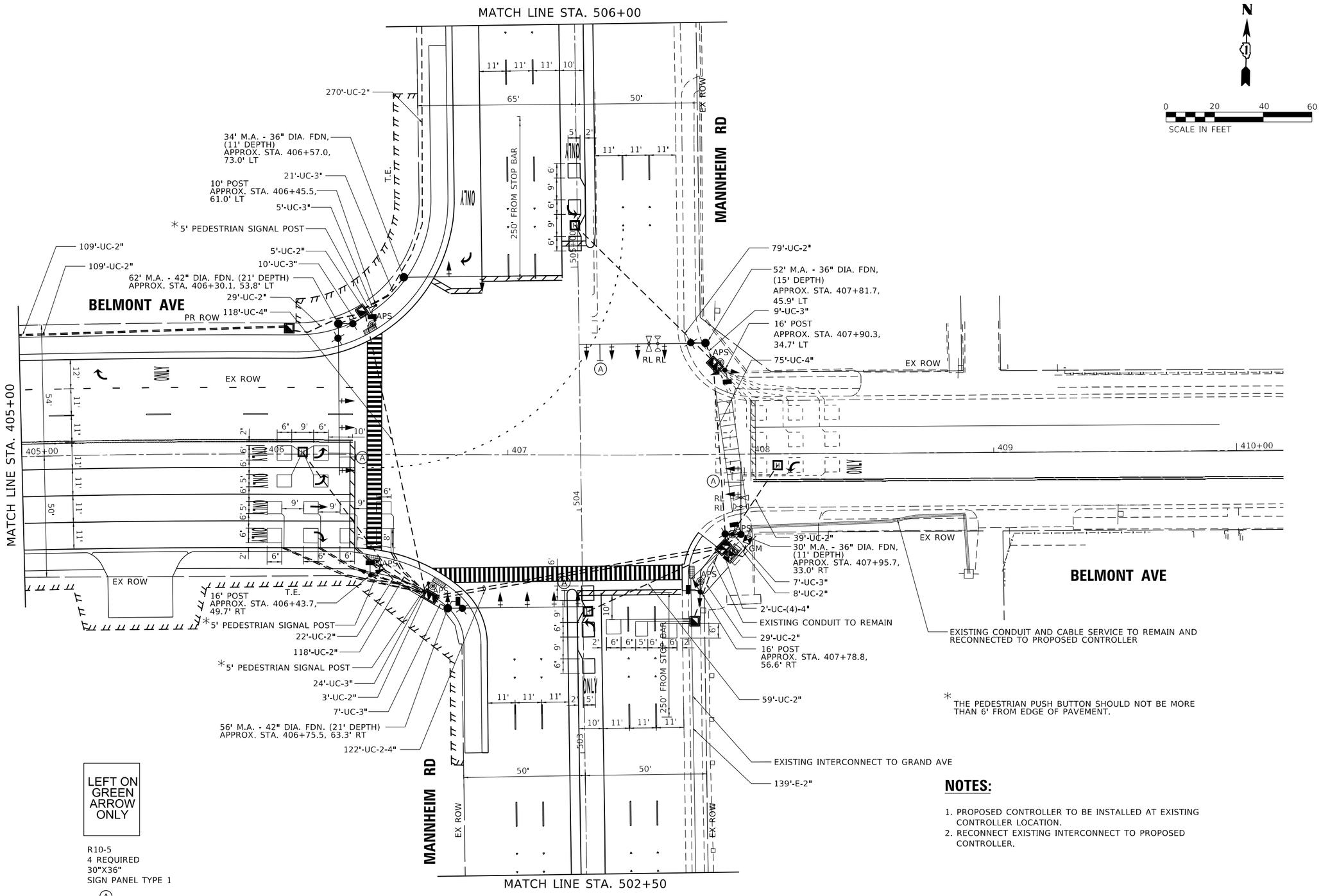

* THE PEDESTRIAN PUSH BUTTON SHOULD NOT BE MORE THAN 6' FROM EDGE OF PAVEMENT.

NOTES:

1. PROPOSED CONTROLLER TO BE INSTALLED AT EXISTING CONTROLLER LOCATION.
2. RECONNECT EXISTING INTERCONNECT TO PROPOSED CONTROLLER.

TS 10970
ECON 38

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DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157 / 92
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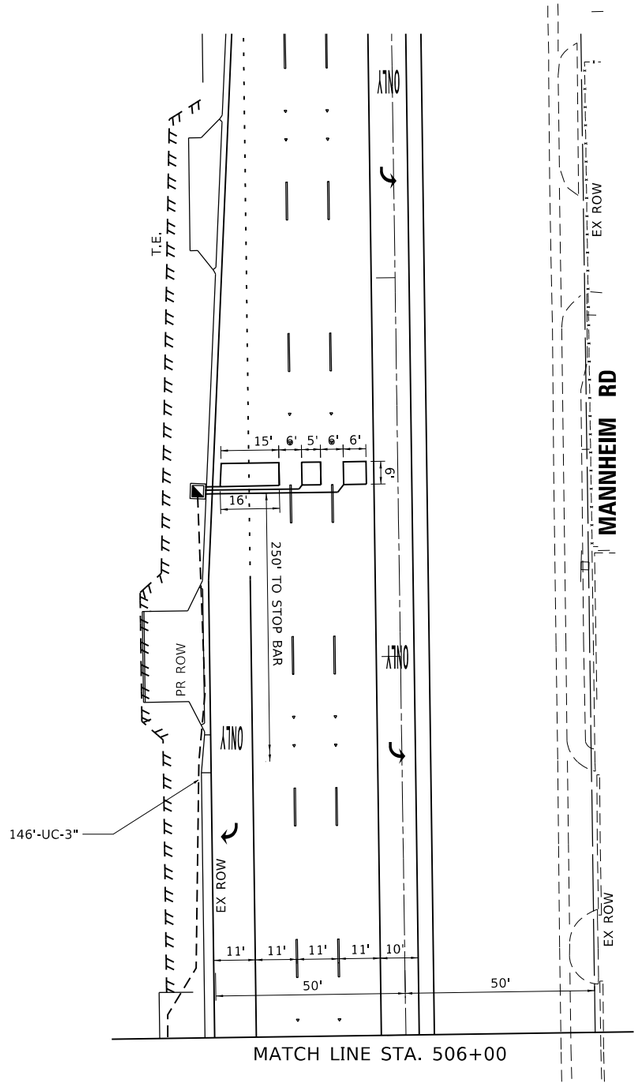

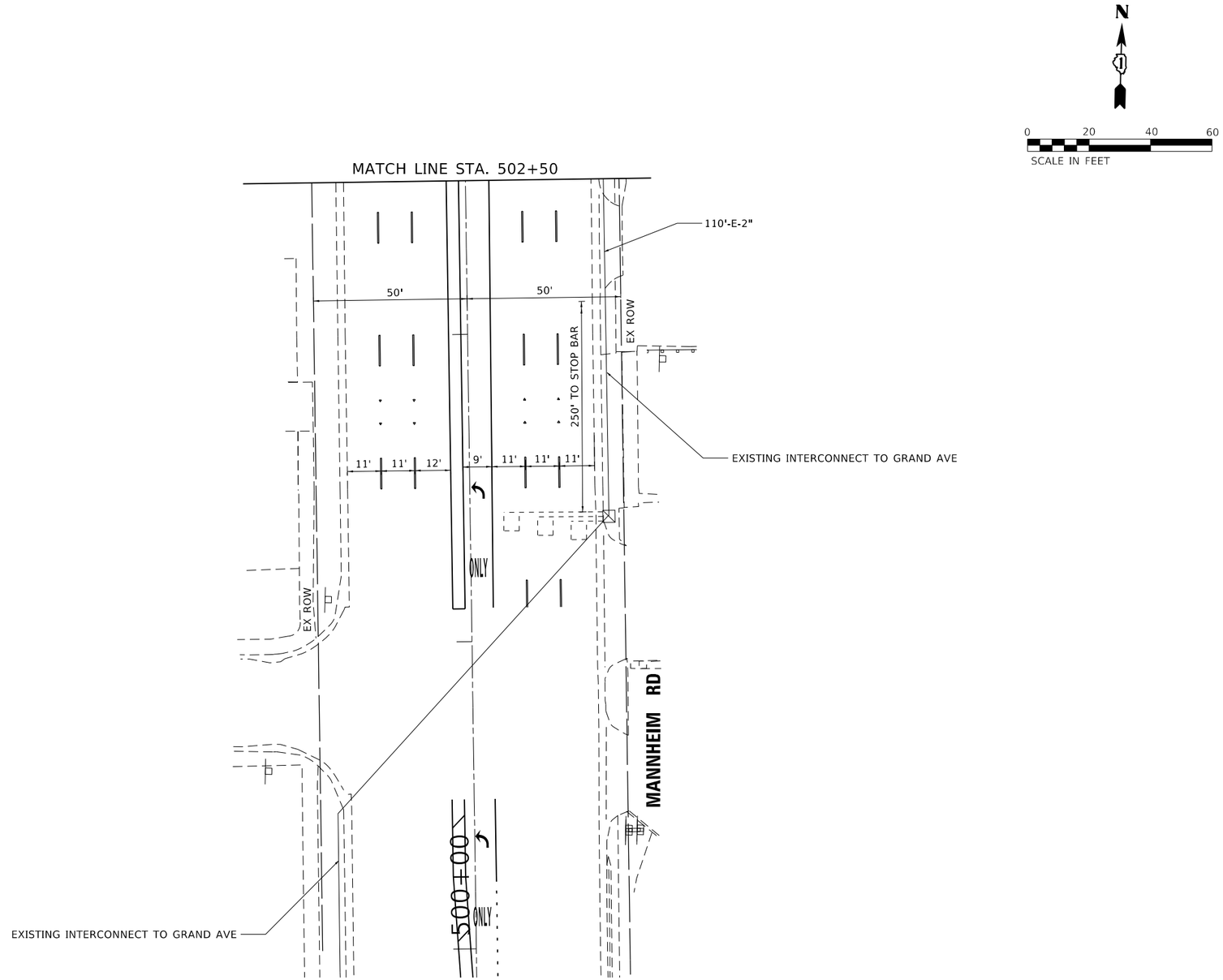

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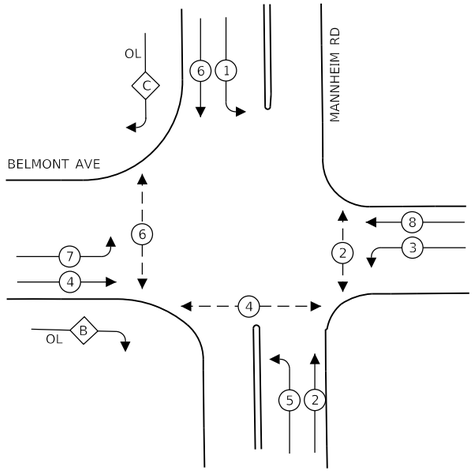
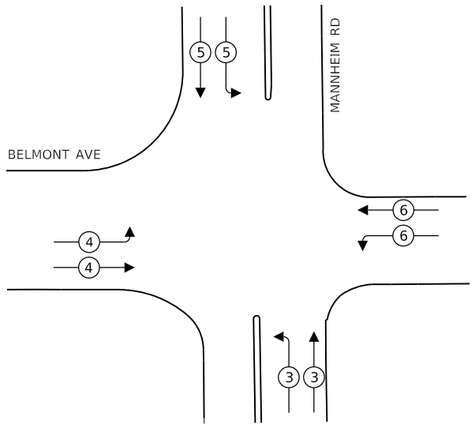
		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157 / 93
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

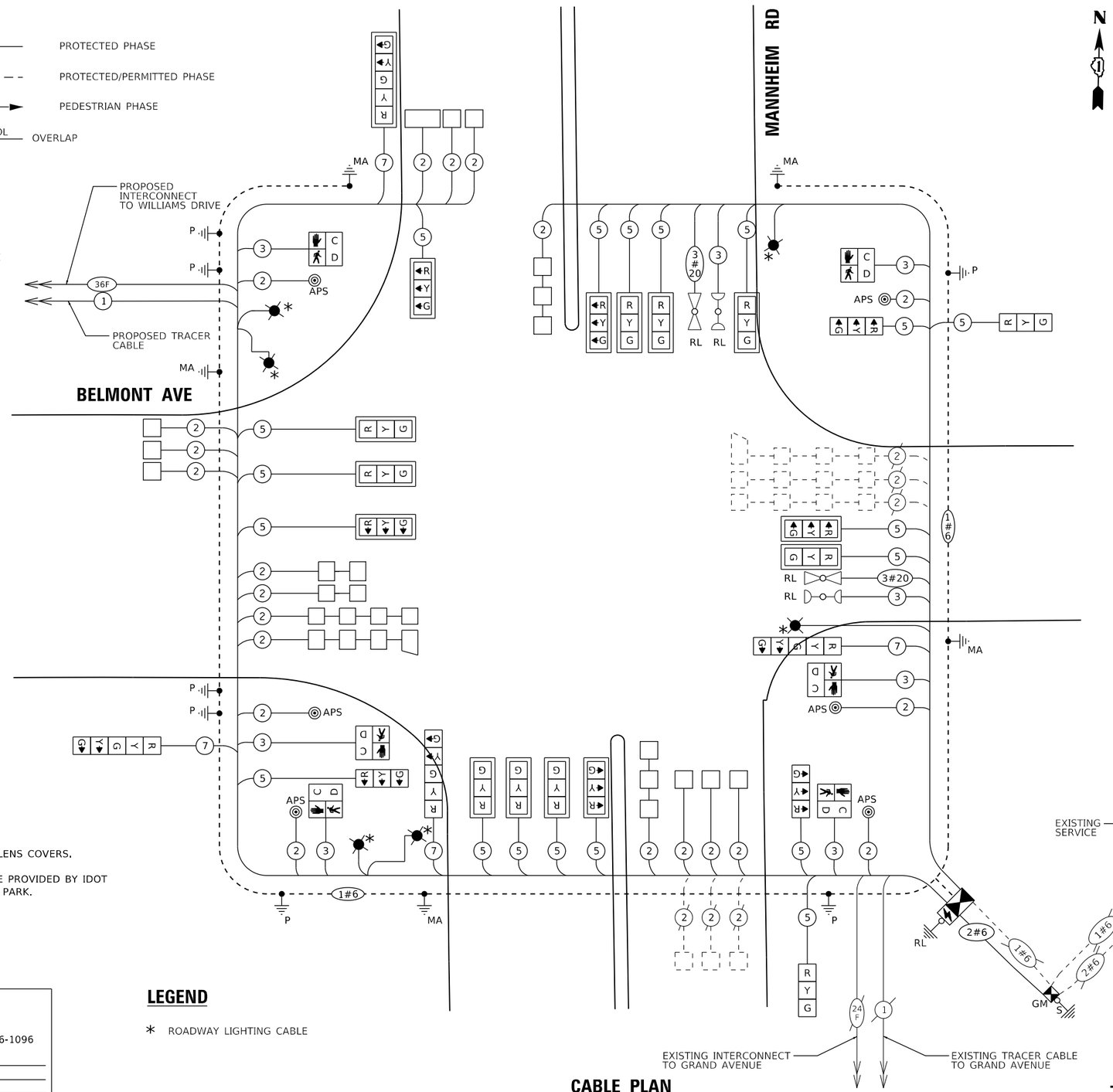


LEGEND

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

PHASE DESIGNATION DIAGRAM

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



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	19	11	209
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			526
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1131

NOTES:

1. ALL RED SIGNAL HEADS TO INCLUDE LENS COVERS.

2. ENERGY FOR THESE LUMINARES TO BE PROVIDED BY IDOT AND PAID BY THE VILLAGE OF FRANKLIN PARK.

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: PHONE: (866)-639-3532
COMPANY: ---
ACCOUNT NUMBER: 7517571222
METER NUMBER: ---

LEGEND

* ROADWAY LIGHTING CABLE

CABLE PLAN
(NOT TO SCALE)

TS 10970
ECON 38

FILE NAME =	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -
$FILEL$$		DRAWN - NS	REVISED -
DELTA ENGINEERING GROUP	PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM & EMERGENCY VEHICLE PREEMPTION SEQUENCE – US 12–45 (MANNHEIM RD) & BELMONT AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	94
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

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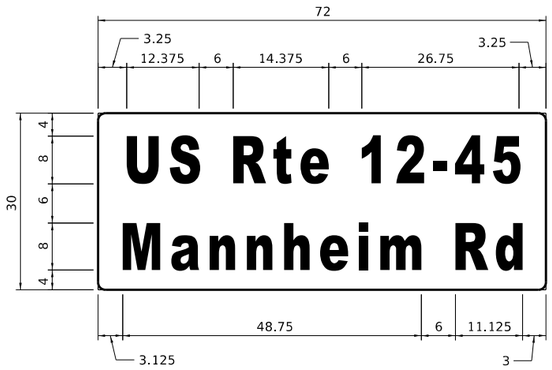
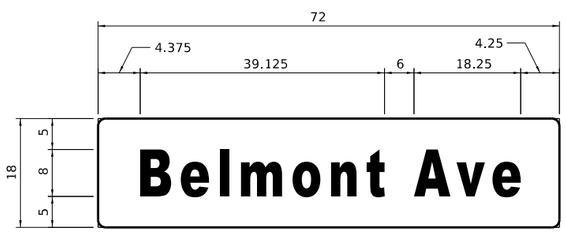
SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	15.0	2	ZZ	2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	9	1	ZZ	2

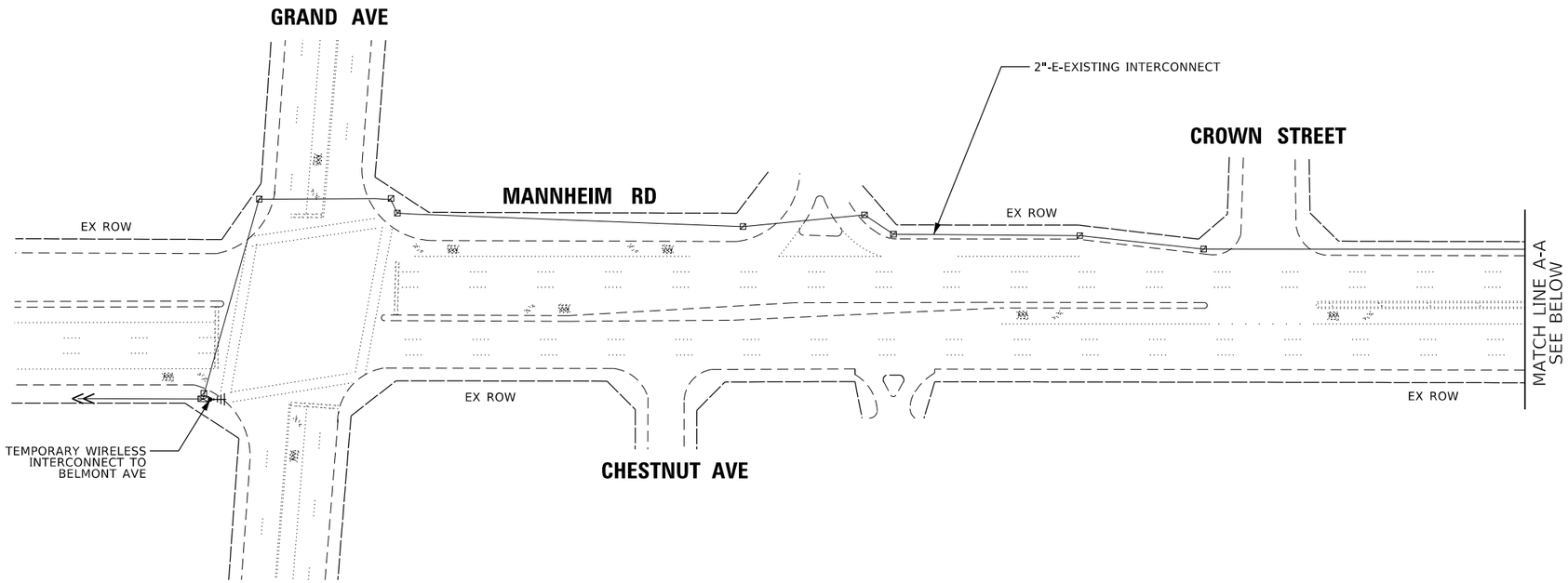
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL

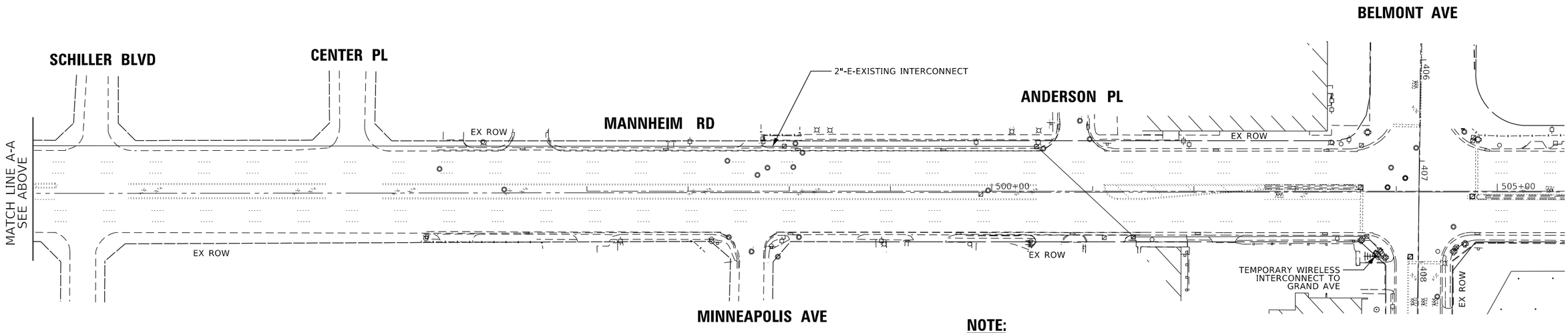
SCHEDULE OF QUANTITIES

	ITEM DECRIPTION	UNITS	TOTAL QTY.
	SIGN PANEL - TYPE 1	SQ FT	18
	SIGN PANEL - TYPE 2	SQ FT	28
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	900
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	151
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	456
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	3
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	828
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1559
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3930
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	870
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3009
	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	15
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1255
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
	INDUCTIVE LOOP DETECTOR	EACH	21
	DETECTOR LOOP, TYPE I	FOOT	790
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	680
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
	LED SIGNAL FACE, LENS COVER	EACH	23
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF FRANKLIN PARK

TS 10970
ECON 38





NOTE:

WIRELESS INTERCONNECT TO BE INSTALLED AT TEMPORARY SIGNAL CONTROLLER OF BELMONT AVE AND MANNHEIM RD INTERSECTION AND AT EXISTING CONTROLLER OF GRAND AVE AND MANNHEIM RD INTERSECTION. SEE TEMPORARY SIGNAL PLANS AND TEMPORARY SCHEMATIC PLAN.

ECON 38

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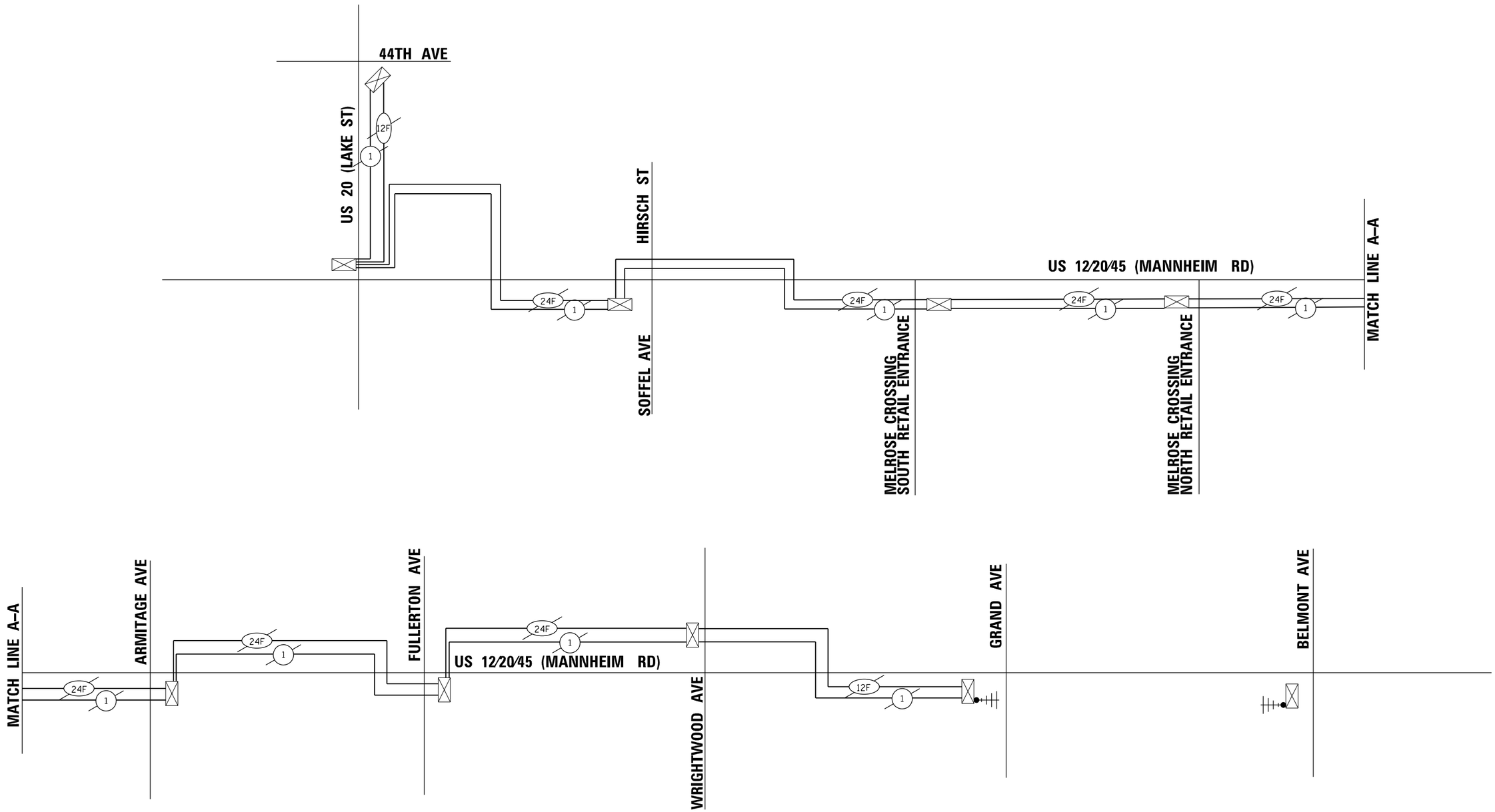
DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -					CONTRACT NO. 61K16
	PLOT SCALE = 100.0000 ' / in.	CHECKED - MA	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -					

NOTE:

1. TEMPORARY RADIO INTERCONNECT ANTENNA AT THE INTERSECTION OF GRAND AVENUE AND MANNHEIM ROAD SHALL BE INSTALLED ON THE MAST ARM ASSEMBLY AND POLE AS SHOWN. THE CABLE FROM ANTENNA SHALL BE INSTALLED IN THE EXISTING CONDUITS BETWEEN THE ANTENNA AND THE EXISTING CONTROLLER. THE ANTENNA AND ALL THE CABLES SHALL BE REMOVED UPON COMPLETION OF THE PROPOSED FIBER OPTIC INTERCONNECT SYSTEM. ANY HOLES IN THE MAST ARM SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE TEMPORARY SIGNAL INSTALLATION WORK AT BELMONT AVENUE AND MANNHEIM ROAD.



TEMPORARY INTERCONNECT SCHEMATIC

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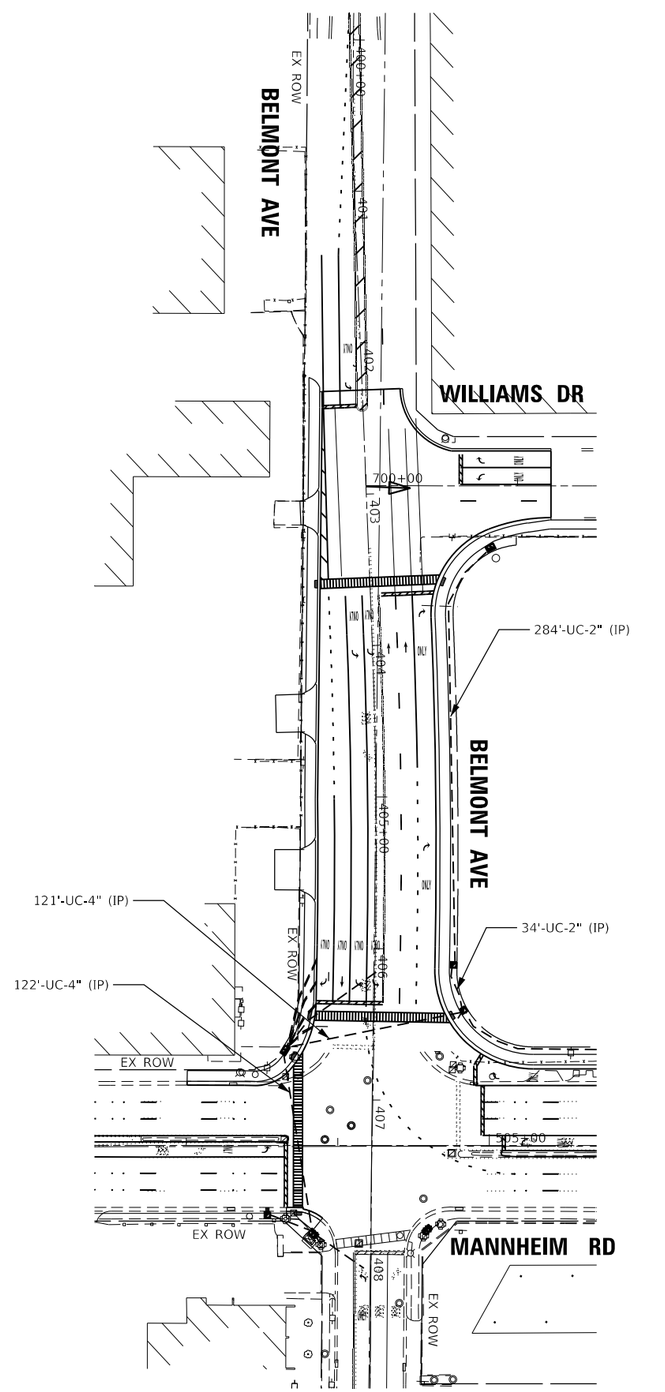
		DRAWN - NS	REVISED -			1373	17-00083-02-PV	COOK	157	97
DELTA ENGINEERING GROUP	PLOT SCALE = 20.0000 ' / in.	CHECKED - MA	REVISED -					CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



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DELTA ENGINEERING GROUP	PLOT SCALE = 100.0000 ' / in.	CHECKED - MA	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT
US 12–45 (MANNHEIM RD) – BELMONT AVE TO GRAND AVE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	98
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

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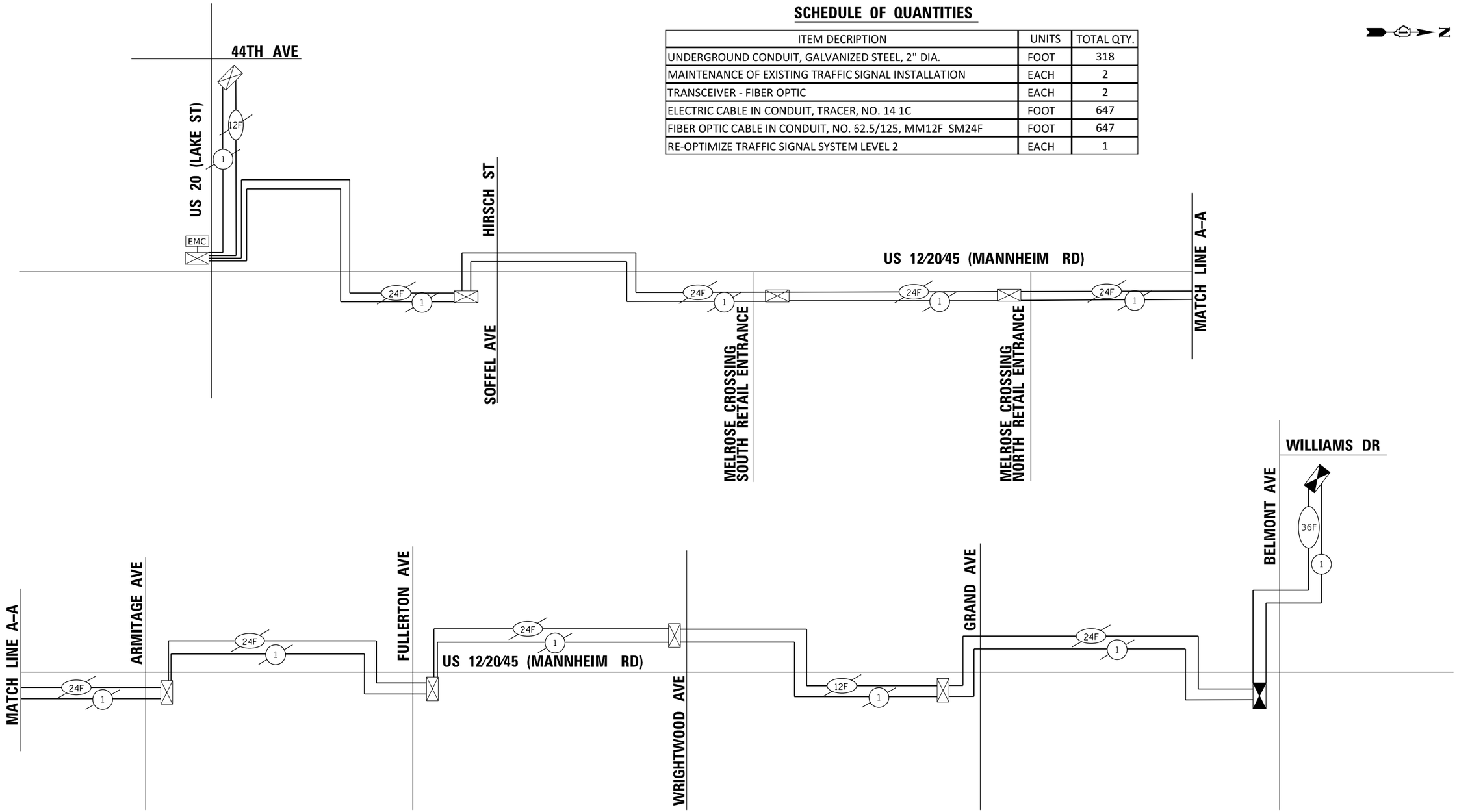
SCHEDULE OF QUANTITIES

ITEM DECRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	318
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	647
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	647
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1



PROPOSED INTERCONNECT SCHEMATIC

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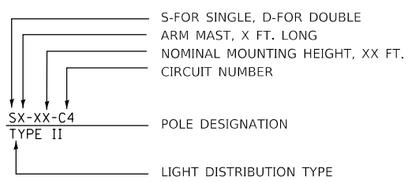
FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT SCHEMATIC US–20 (LAKE ST) TO BELMONT AVE – US 12–45 (MANNHEIM RD)
DELTA ENGINEERING GROUP		DRAWN - NS	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - MA	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	99
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	

SYMBOLS LEGEND

- EXISTING LIGHTING UNIT TO REMAIN.
- EXISTING LIGHTING UNIT TO BE REMOVED, INCLUDING LUMINAIRE, POLE, MAST ARM, FOUNDATION ETC. (84200500), (84200804), (X1400341)
- NEW LIGHTING UNIT, 37 FT POLE, 40 FT. MOUNTING HEIGHT, 15 INCH BOLT CIRCLE, MAST ARM LENGTH AS NOTED ON THE PLANS, DESIGNATION H LED LUMINAIRE (83008500), (83008600), (82110008), (Z0033020)
- COMBINATION LIGHTING, MOUNTED ON SIGNALIZED INTERSECTION, MAST ARM LENGTH 12 FT, LUMINAIRE MOUNTING HEIGHT 40 FT, WITH LED LUMINAIRE (82110008), (X8301042), (Z0033020)
- A — UNIT DUCT, 600V, 2-1/C, NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1-1/4" DIA. POLYETHYLENE (81603070)
- B — UNIT DUCT, 600V, 3-1/C, NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1-1/2" DIA. POLYETHYLENE (81603081)
- UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 ½" DIA. (81028210).



ABBREVIATIONS

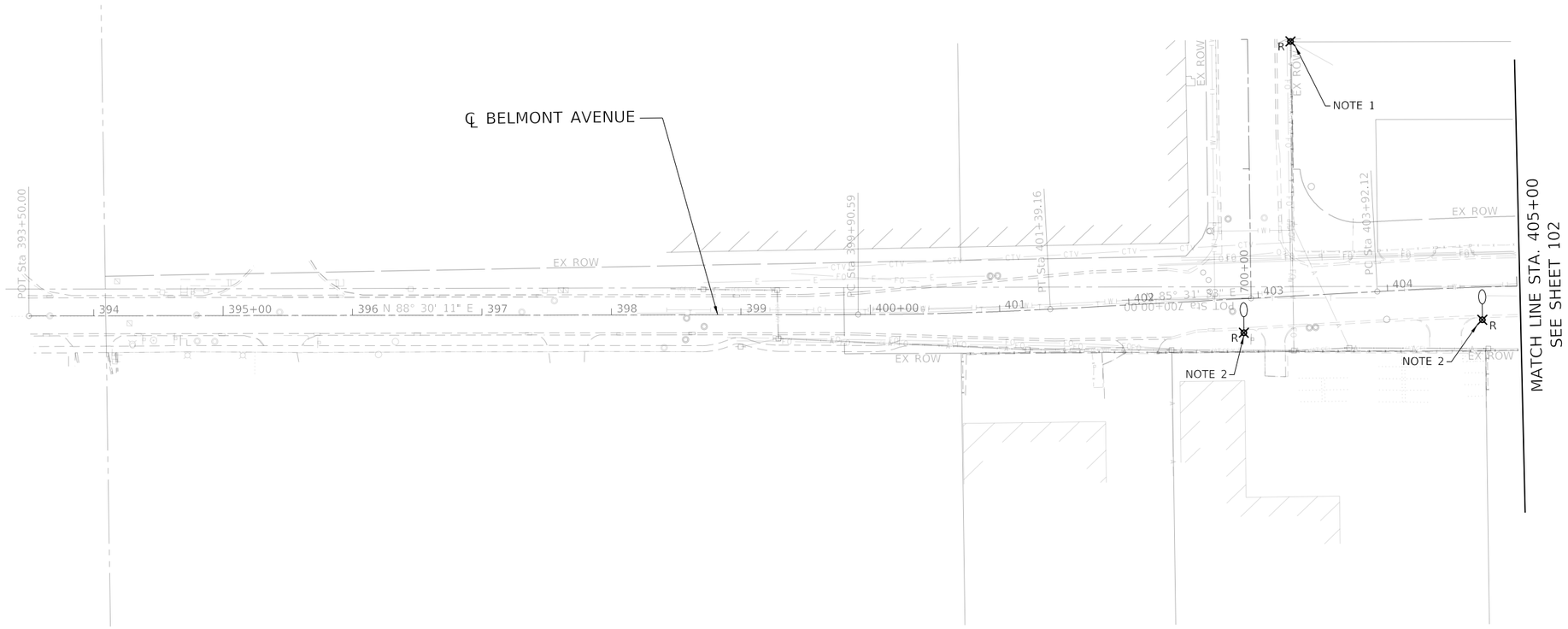
B.O.C	BACK OF CURB
E	EXISTING TO REMAIN
E.O.P.	EDGE OF PAVEMENT
FT	FEET OR FOOT
GND	GROUND
MA	MAST ARM
NO.	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANISED STEEL
R	REMOVE
STA.	STATION
U.N.O.	UNLESS NOTED OTHERWISE

GENERAL NOTES:

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED ON APRIL 1, 2022 AND SUPPLEMENT SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED ON JAN 1, 2026.
2. TRENCHED CONDUITS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE ROOTS, ROADWAY SEWER DRAINS, SHEET PILING, AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE THE DEPTH OF TRENCH AND CONDUITS TO AVOID CONFLICTS AT NO ADDITIONAL COST TO THE TOLLWAY.
3. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER.
4. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH STREET LIGHTING CONTROLLER TO EACH LIGHT POLE, AND TO ALL OTHER ITEMS OF EQUIPMENT. ALL ENCLOSURES SHALL BE EQUIPPED WITH GROUND LUGS FOR GROUND WIRE TERMINATION WITHOUT DEGRADATION OF THE ENCLOSURE RATING.
5. COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR COORDINATION.
6. REFER TO THE CIVIL DRAWINGS AND ALSO VERIFY IN FIELD LOCATIONS OF EXISTING EQUIPMENT AND UTILITIES.
7. AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, ELECTRICAL OR OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE OF ALL EXISTING LIGHTING SYSTEMS.
8. WORK FOR ELECTRICAL SYSTEMS SHALL BE COMPLETE, APPROVED AND FULLY OPERATIONAL BEFORE A FINAL ACCEPTANCE INSPECTION FOR THE WHOLE PROJECT CAN BE SCHEDULED. LIGHTING MAINTENANCE RESPONSIBILITY WILL NOT BE TRANSFERRED TO THE VILLAGE PRIOR TO CONTRACT COMPLETION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. THE CONTRACTOR SHALL NOT DE-ENGERGIZE ANY EXISTING ELECTRICAL EQUIPMENT WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
10. THE ELECTRICAL CABLE CONDUCTORS SHALL BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF ELECTRIC CABLE CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE PROPOSED LIGHT POLES, UNLESS NOTED OTHERWISE. THIS WORK SHALL BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM. NO SEPARATE PAYMENT WILL NOT BE MADE FOR THIS WORK.
11. FURNISH AND INSTALL ALL LED LUMINAIRE IN ACCORDANCE WITH THE LUMINAIRE SUPPLIER RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE THE VOLTAGE, AND WATTAGE WITH THE LUMINAIRE SUPPLIER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
12. ALL NEW ELECTRICAL WORK SHALL BE COORDINATED WITH THE NEW CIVIL WORK THAT WILL BE DONE IN THE SAME AREA.
13. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY FOR APPROVAL OF LOCATION.
14. NO MATERIAL SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN APPROVED BY THE ENGINEER.
15. LUMINAIRE AXES SHALL BE SET PARALLEL TO THE PAVEMENT ILLUMINATED BY THE LUMINAIRE. MAST ARMS SHALL BE AT RIGHT ANGLES TO THE CENTERLINE OF THE PAVEMENT TO BE ILLUMINATED.
16. CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING IN THE WORK ZONE AREAS, AFTER PROPOSED LIGHTING INSTALLED AND OPERATIONAL. ALL LIGHTING OUTSIDE WORK ZONE AREAS SHALL REMAIN OPERATIONAL.
17. DE-ENERGIZING OF EXISTING LIGHTING UNITS SHALL BE INCLUDED IN THE COST OF THE REMOVAL OF EXISTING LIGHTING SYSTEM PAY ITEM WORK, NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
18. TRENCH AND BACKFILL FOR ELECTRICAL WORK SHALL BE INCLUDED IN THE COST OF UNIT DUCT. THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING UNDERGROUND RACEWAYS AND UNIT DUCTS BY TRENCHING, PLOWING, BORING AND PULLING OR PUSHED THROUGH EXISTING PAVEMENT.
19. FURNISHING, INSTALLING AND TESTING OF GROUNDING SYSTEM WILL NOT BE PAID SEPARATELY, BUT THE COST SHALL BE INCLUDED IN THE COST OF THE ITEM FOR WHICH IT IS INSTALLED.

ROADWAY LIGHTING SUMMARY OF QUANTITY

PAYITEM	DESCRIPTION	UNIT	QTY
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	295
81603070	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	375
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1175
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	15
83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	2
83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH	8
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	10
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	10
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	3
84200804	REMOVAL OF POLE FOUNDATION	EACH	3
X0327234	LIGHTING UNIT IDENTIFICATION DECAL	EACH	10
X1400341	REMOVAL OF LUMINARIE, SALVAGE	EACH	4
X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6
X8301042	MAST ARM, AUMINIUM, 12 FT.	EACH	5
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	15



NOTE:

1. REMOVE EXISTING STREET LIGHT, CONSIST OF MAST ARM, AND LUMINAIRE FROM THE EXISTING UTILITY POLE. THIS WORK SHALL BE PAID BY PAY ITEM X1400341
2. REMOVE EXISTING LIGHTING UNIT, INCLUDING LUMINAIRE, POLE, MAST ARM, FOUNDATION ETC.
3. SEE NOTES ON SHEET E-1

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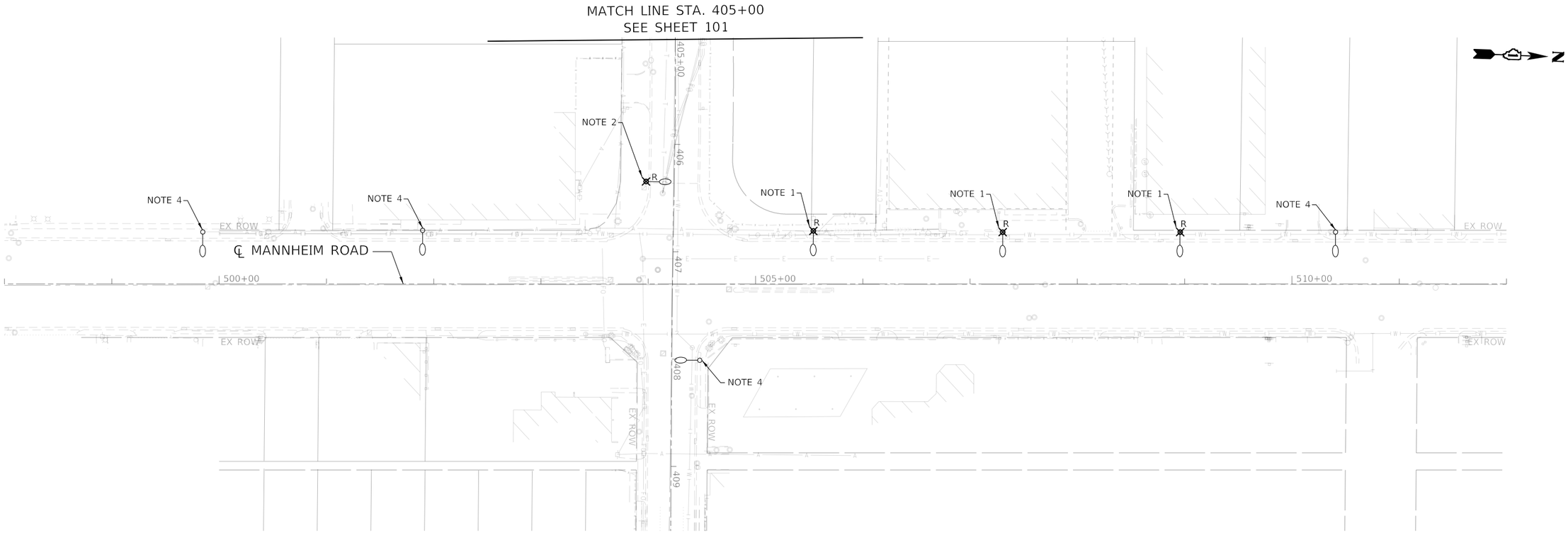
		DRAWN - AM	REVISED -					1373	17-00083-02-PV	COOK	157	101
DELTA ENGINEERING GROUP	PLOT SCALE = 100.0000 ' / in.	CHECKED - KK	REVISED -							CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: 1"=50'	SHEET E-2 OF E-10 SHEETS	STA. 397+42 TO STA. 405+00		ILLINOIS	FED. AID PROJECT		



NOTE:

1. REMOVE EXISTING STREET LIGHT, CONSIST OF MAST ARM, AND LUMINAIRE FROM THE EXISTING UTILITY POLE.
2. REMOVE EXISTING LIGHTING UNIT, INCLUDING LUMINAIRE, POLE, MAST ARM, FOUNDATION ETC.
3. SEE NOTES ON SHEET E-1
4. EXISTING TO REMAIN IN PLACE.

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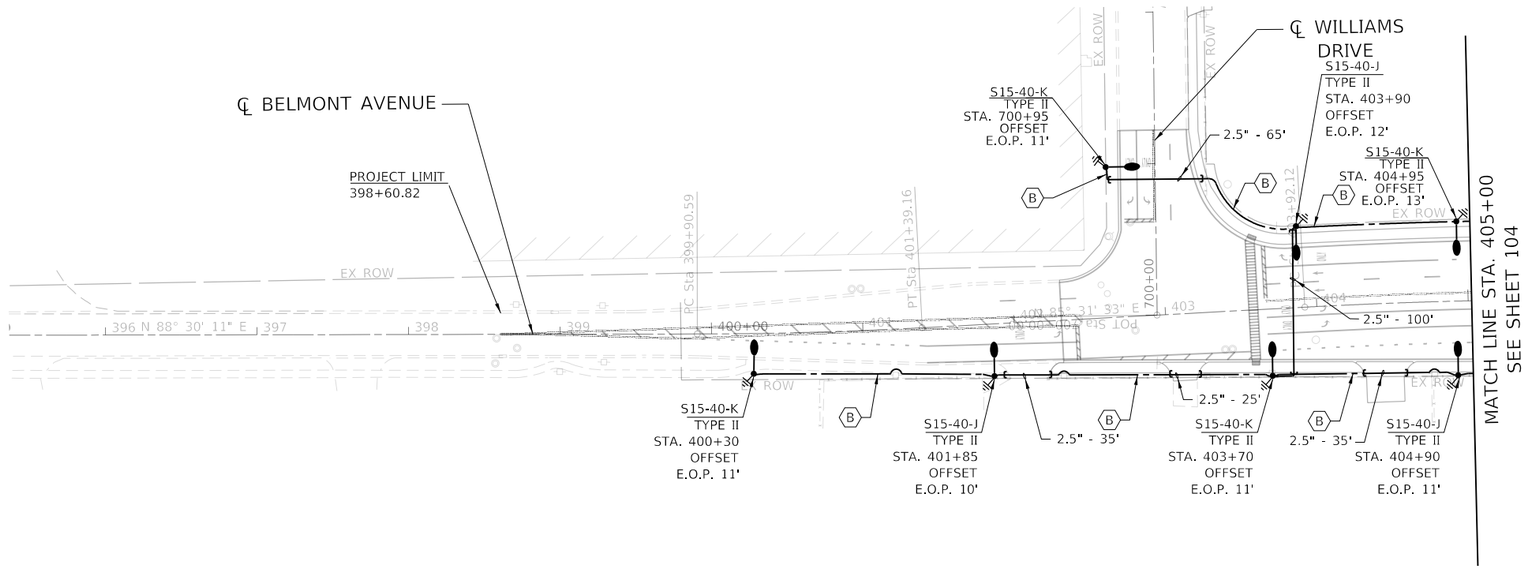
FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - AM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING REMOVAL PLAN BELMONT AVENUE AND MANNHEIM ROAD			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - AM	REVISED -					1373	17-00083-02-PV	COOK	157	102
DELTA ENGINEERING GROUP	PLOT SCALE = 100.0000 ' / in.	CHECKED - KK	REVISED -							CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: 1"=50'	SHEET E-3 OF E-10 SHEETS	STA. 497+90 TO STA. 510+65		ILLINOIS	FED. AID PROJECT		



NOTE:

1. SEE SHEET E-1 FOR NOTES AND LEGENDS.
2. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF PAVEMENT TO CENTER OF POLE.

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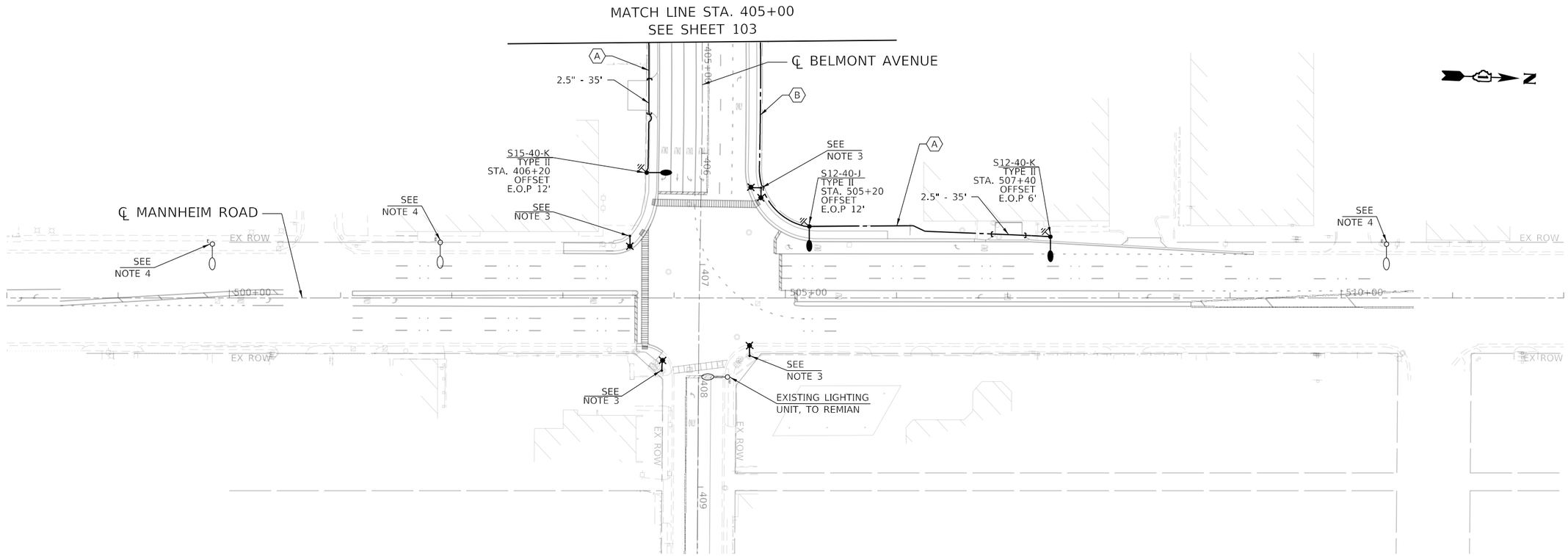
		DRAWN - AM	REVISED -					1373	17-00083-02-PV	COOK	157	103
DELTA ENGINEERING GROUP	PLOT SCALE = 100.0000 ' / in.	CHECKED - KK	REVISED -							CONTRACT NO. 61K16		
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE:	SHEET E-4 OF E-10 SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT		



NOTE:

1. SEE SHEET E-1 FOR NOTES AND LEGENDS.
2. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF PAVEMENT TO CENTER OF POLE.
3. COMBINATION LIGHTING MOUNTED ON TRAFFIC SIGNAL POLE, CONNECT TO TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL PLANS AND BE-240 FOR MORE DETAILS. LUMINAIRE HAS BEEN INSTALLED ON 12' MAST ARM.
4. EXISTING LUMINAIRE, INSTALLED ON EXISTING COMED POLE, AND DIRECTLY FED BY COMED POLE.
5. SEE SHEET 103 FOR DECAL, AND MAST ARM INFORMATION.

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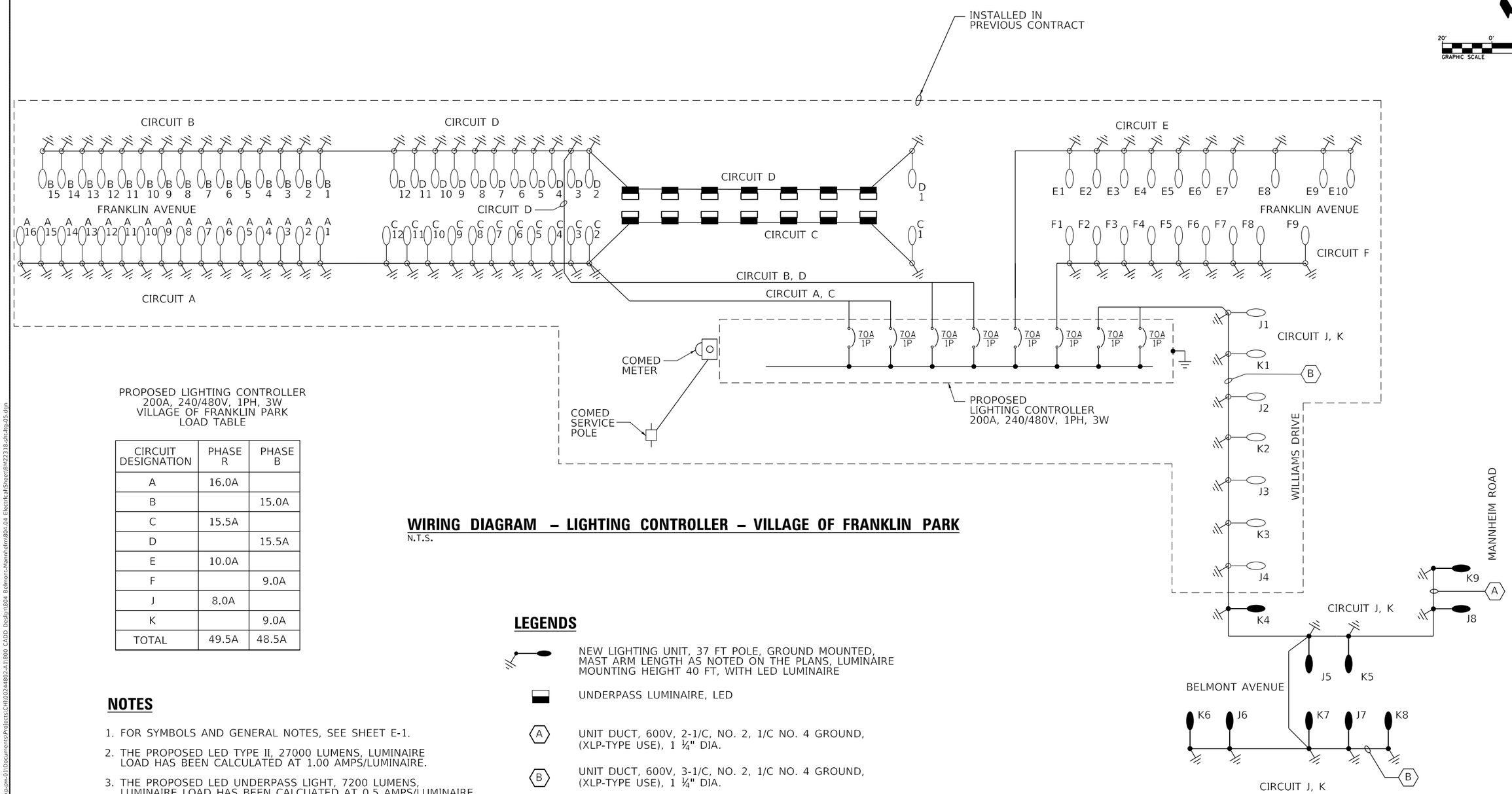
		DRAWN - AM	REVISED -			1373	17-00083-02-PV	COOK	157 / 104
DELTA ENGINEERING GROUP	PLOT SCALE = 100.0000 ' / in.	CHECKED - KK	REVISED -					CONTRACT NO. 61K16	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -		SCALE: SHEET E-5 OF E-10 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	



PROPOSED LIGHTING CONTROLLER
200A, 240/480V, 1PH, 3W
VILLAGE OF FRANKLIN PARK
LOAD TABLE

CIRCUIT DESIGNATION	PHASE R	PHASE B
A	16.0A	
B		15.0A
C	15.5A	
D		15.5A
E	10.0A	
F		9.0A
J	8.0A	
K		9.0A
TOTAL	49.5A	48.5A

WIRING DIAGRAM – LIGHTING CONTROLLER – VILLAGE OF FRANKLIN PARK

N.T.S.

NOTES

1. FOR SYMBOLS AND GENERAL NOTES, SEE SHEET E-1.
2. THE PROPOSED LED TYPE II, 27000 LUMENS, LUMINAIRE LOAD HAS BEEN CALCULATED AT 1.00 AMPS/LUMINAIRE.
3. THE PROPOSED LED UNDERPASS LIGHT, 7200 LUMENS, LUMINAIRE LOAD HAS BEEN CALCUATED AT 0.5 AMPS/LUMINAIRE.

LEGENDS

- NEW LIGHTING UNIT, 37 FT POLE, GROUND MOUNTED, MAST ARM LENGTH AS NOTED ON THE PLANS, LUMINAIRE MOUNTING HEIGHT 40 FT, WITH LED LUMINAIRE
- UNDERPASS LUMINAIRE, LED
- (A) UNIT DUCT, 600V, 2-1/C, NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 ¼" DIA.
- (B) UNIT DUCT, 600V, 3-1/C, NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 ¼" DIA.
- EXISTING LIGHTING UNIT

MODEL: Default
FILE NAME: pw:\\exp-pw.bentley.com:exa-pw-01\Documents\Projects\CHI\00244802-A\1800 CADD Design\804 Belmont-Mannheim\804-04 Electrical\Sheet\BM22318-sht-fig-05.dgn

FILE NAME = $FILELS$	USER NAME = GARCIAAZ	DESIGNED - AM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED SINGLE LINE DIAGRAM BELMONT AVENUE AND MANNHEIM ROAD
DELTA ENGINEERING GROUP		DRAWN - AM	REVISED -		
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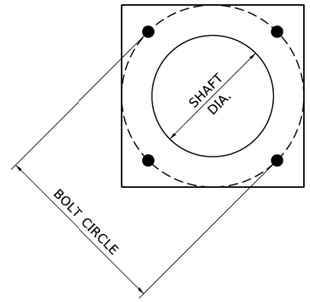
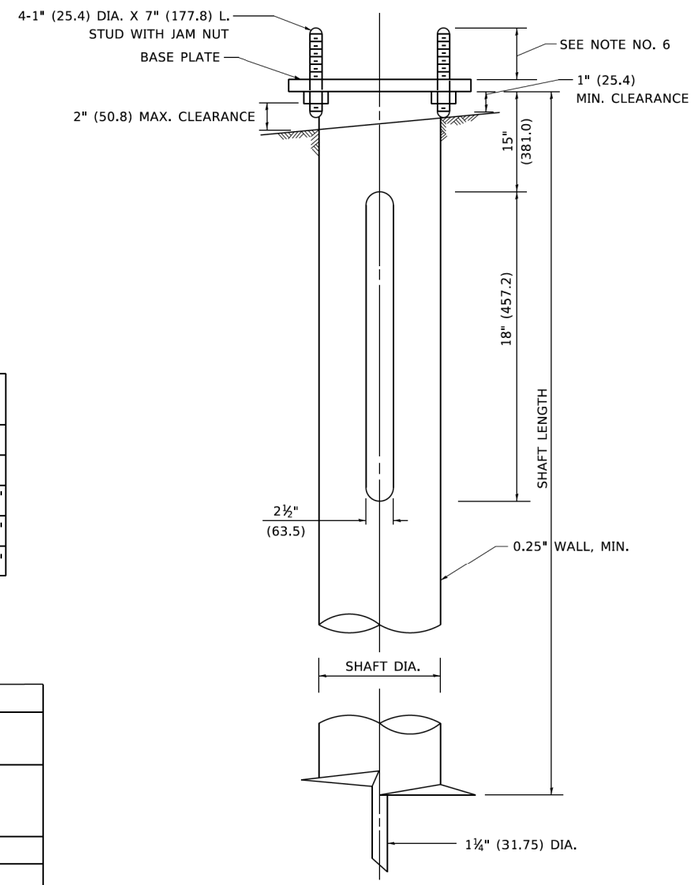
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	105
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	





NOTES

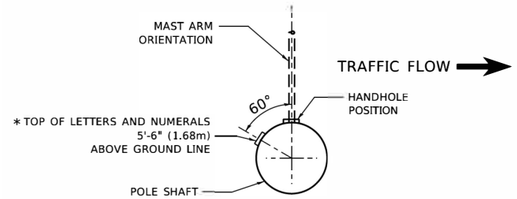
1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
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 POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
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.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE 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 THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND 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) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

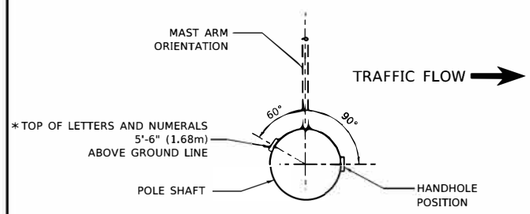
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

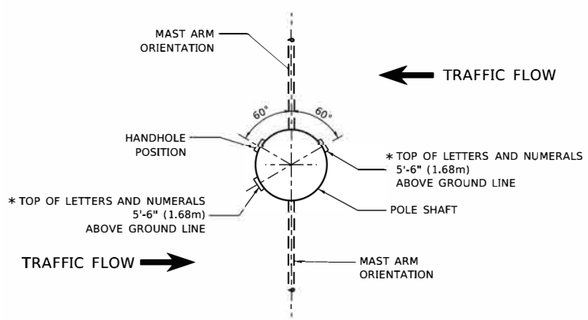
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M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



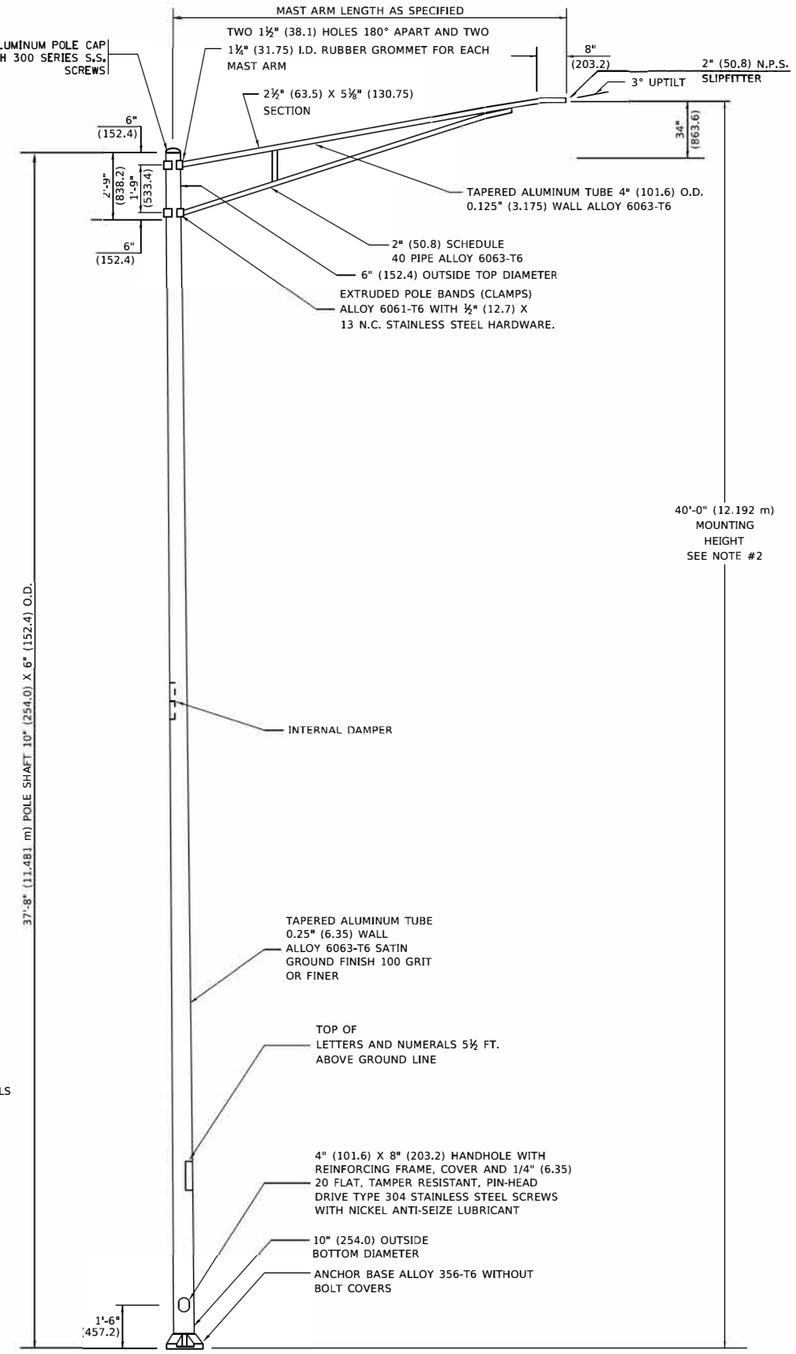
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

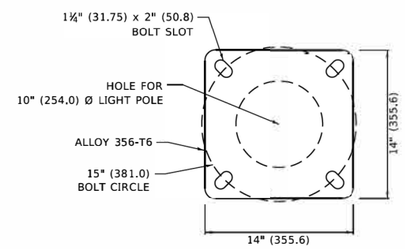


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



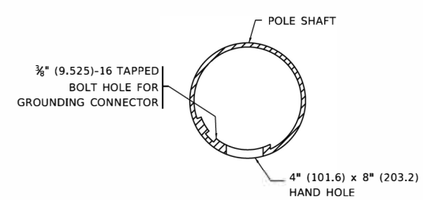
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE

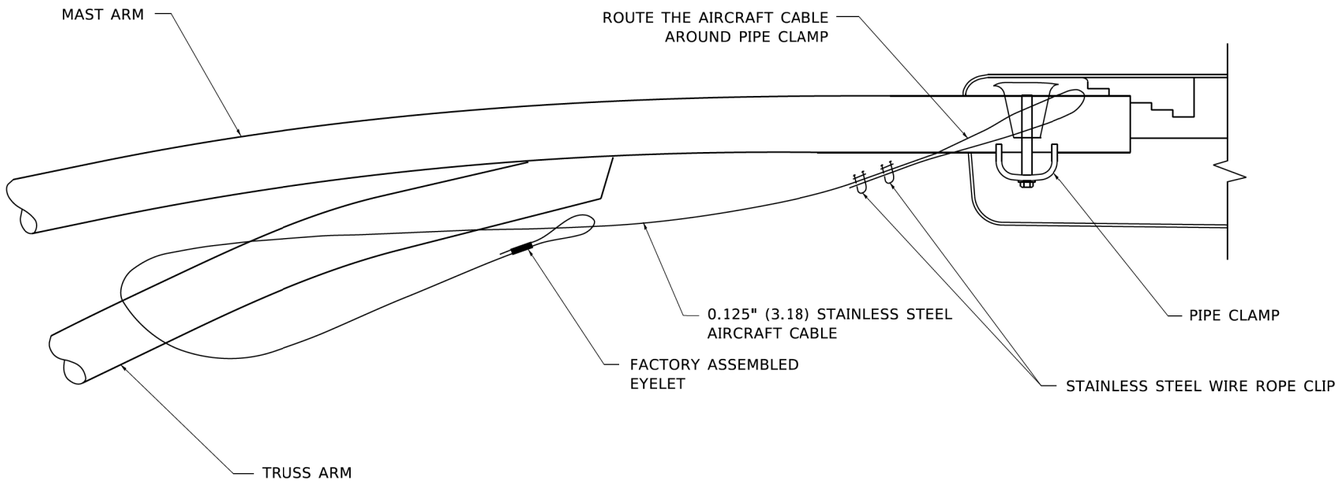


HANDHOLE DETAIL

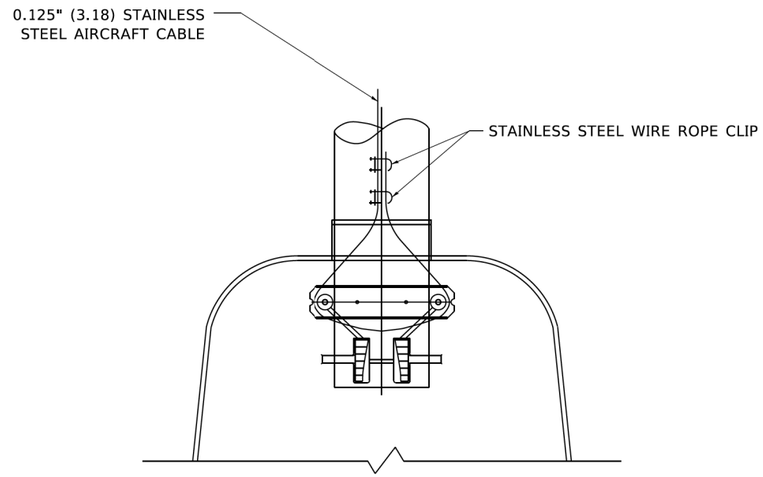
(N.T.S.)

NOTES

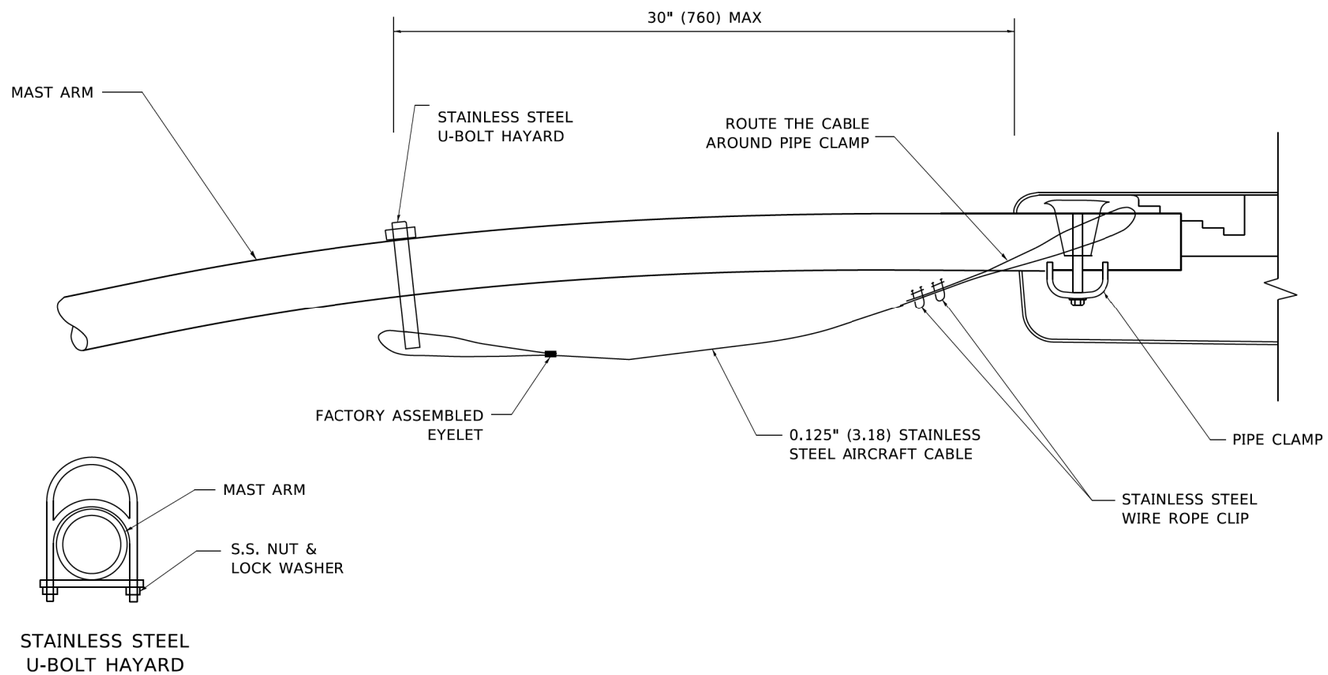
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED 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.



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



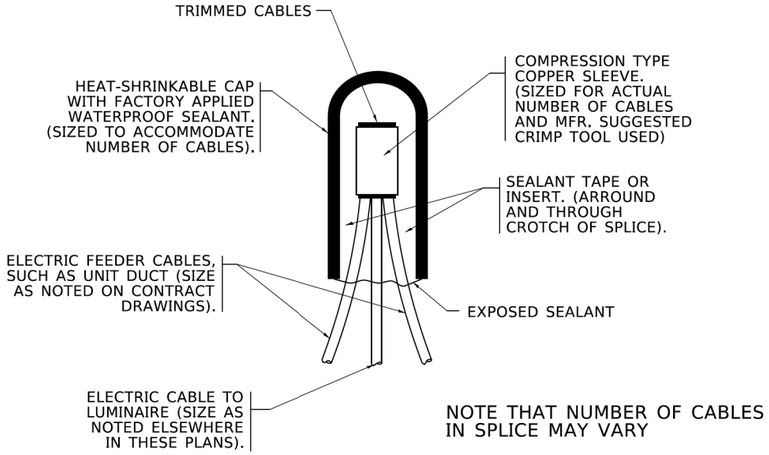
BOTTOM VIEW
N.T.S.



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

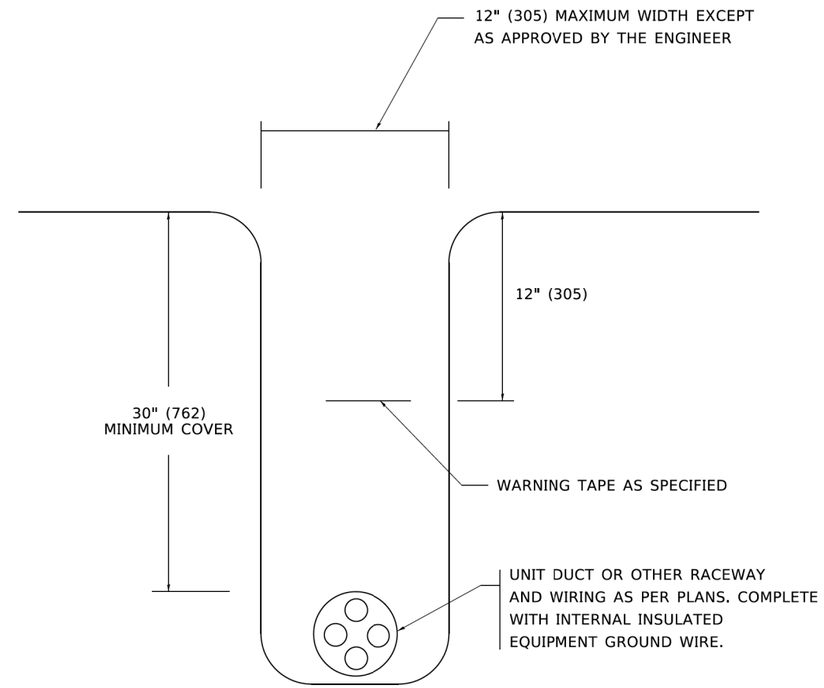
NOTES:

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



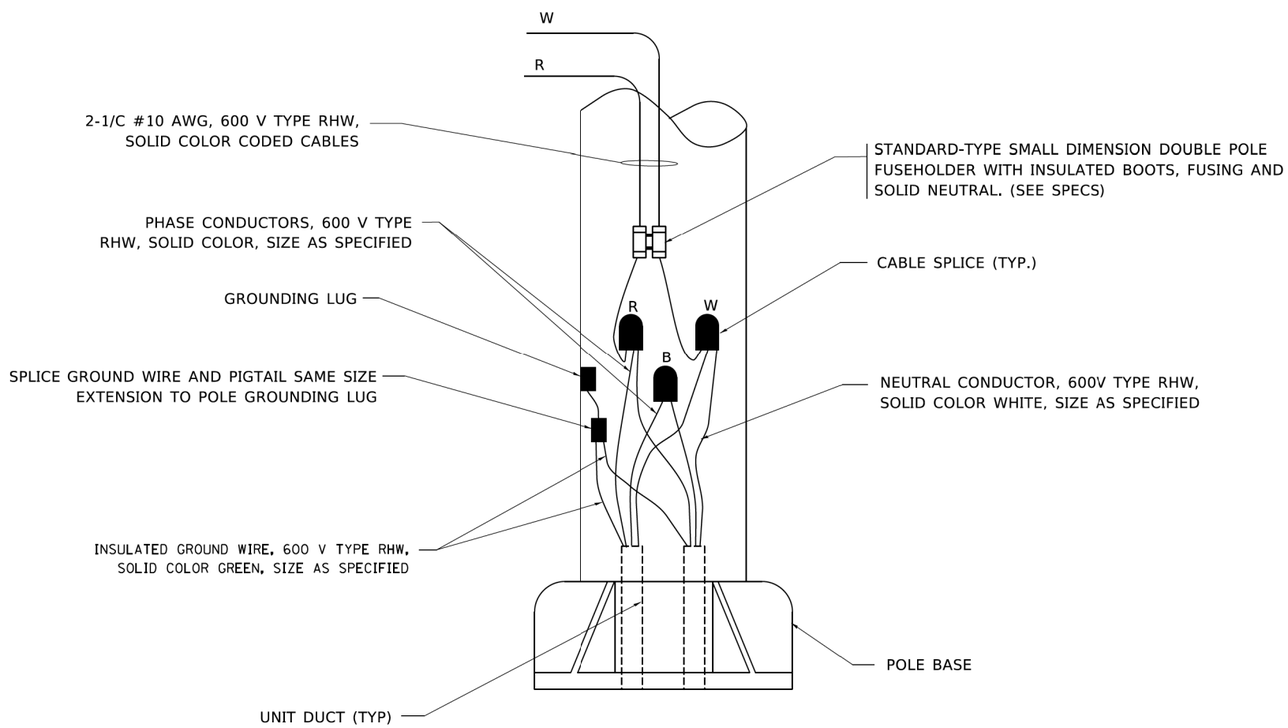
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

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		DRAWN -	REVISED -								157 / 109
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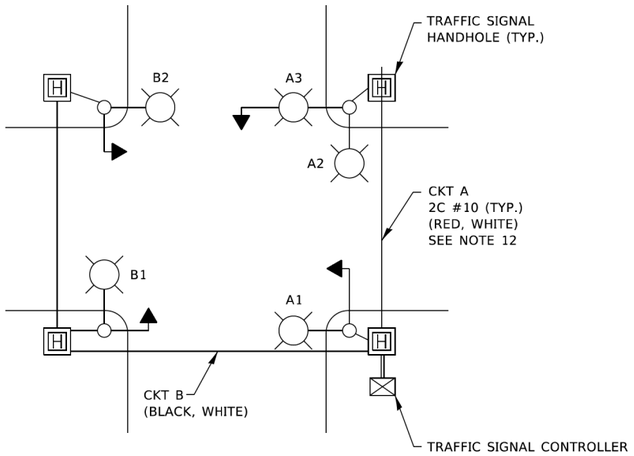
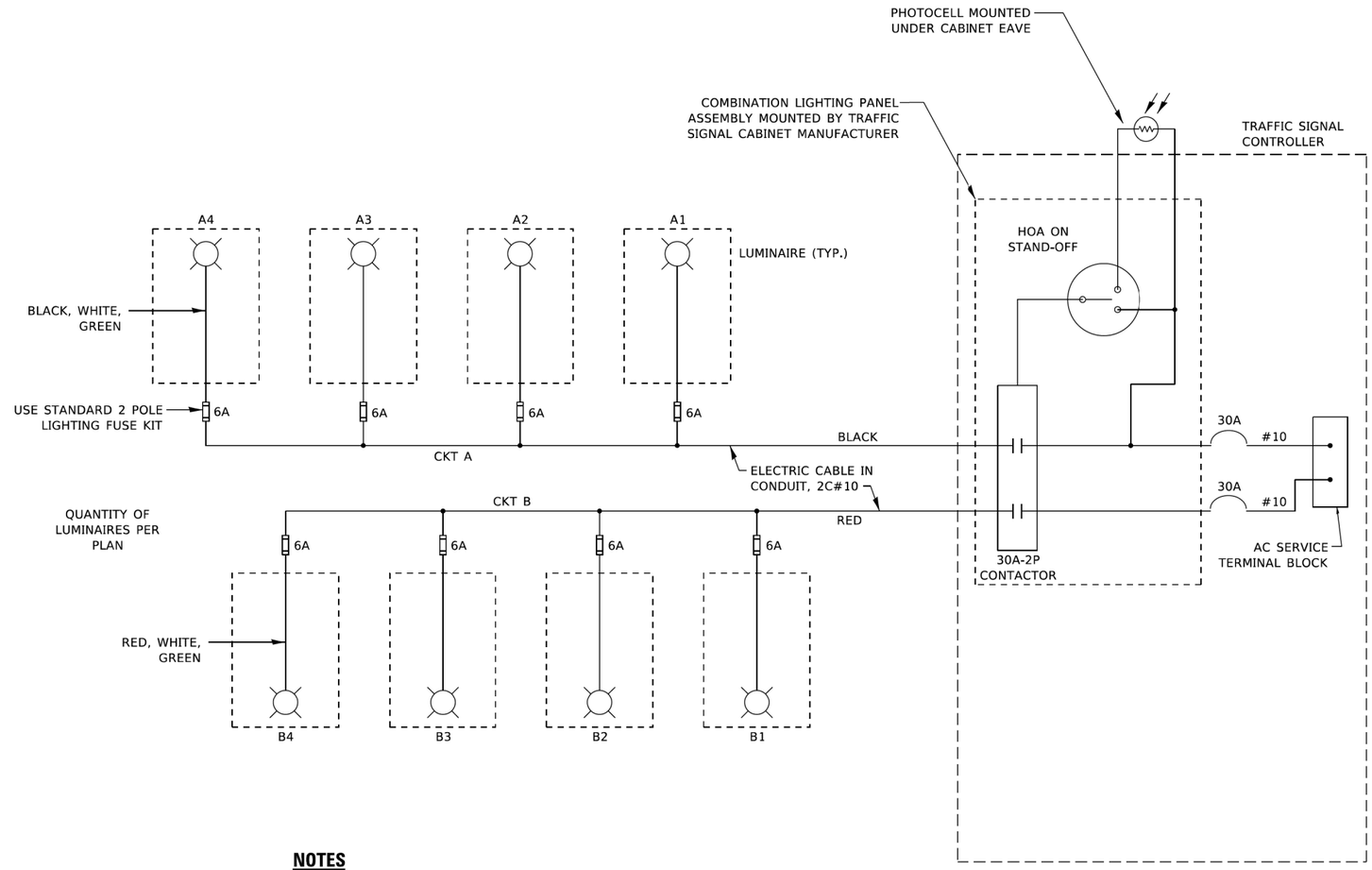
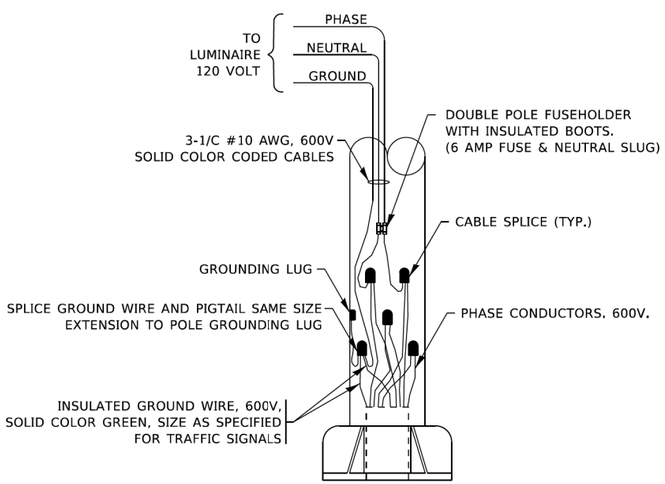
	PLOT DATE = 4/19/2019	DATE -	REVISED -		SCALE: NONE	SHEET E-10 OF E-11 SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	



TYPICAL LIGHTING CIRCUIT

(NOT TO SCALE)



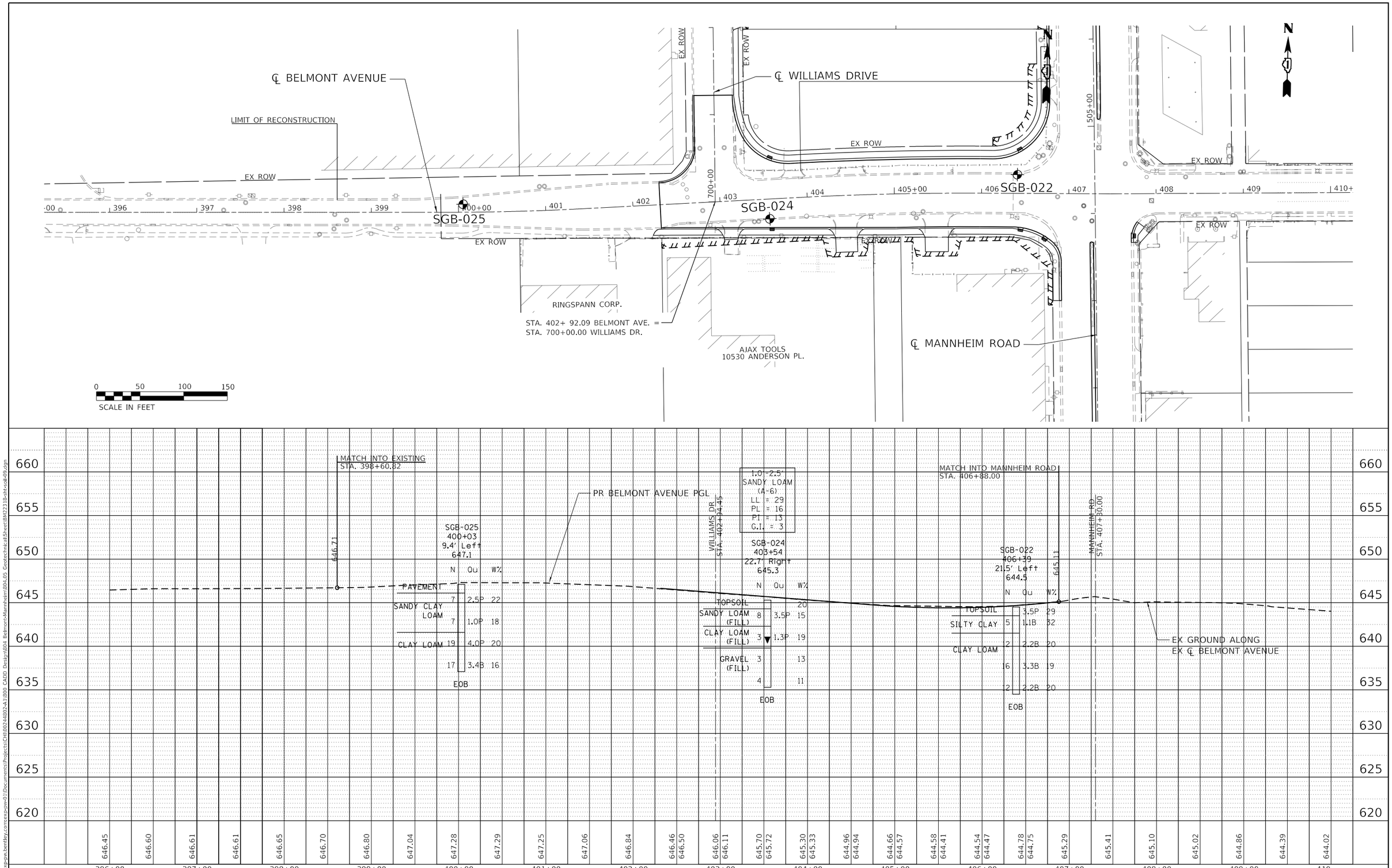


COMBINATION POLE WIRING DETAIL

(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.



PLAN		BY	DATE
NOTE BOOK NO.____	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO.____	SURVEYED		
	PLOTTED		
	PROFILE CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHKD		

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FILE NAME = BM22318-sht-soil-09.dgn	USER NAME = GARCIAAZ	DESIGNED - AJP	REVISED -
		DRAWN - RWC	REVISED -
Geo Services, Inc. Geotechnical, Environmental, Civil Engineering and Electrical Services An MBE - DBE Firm	PLOT SCALE = 100.0000 ' / in.	CHECKED - DGT	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

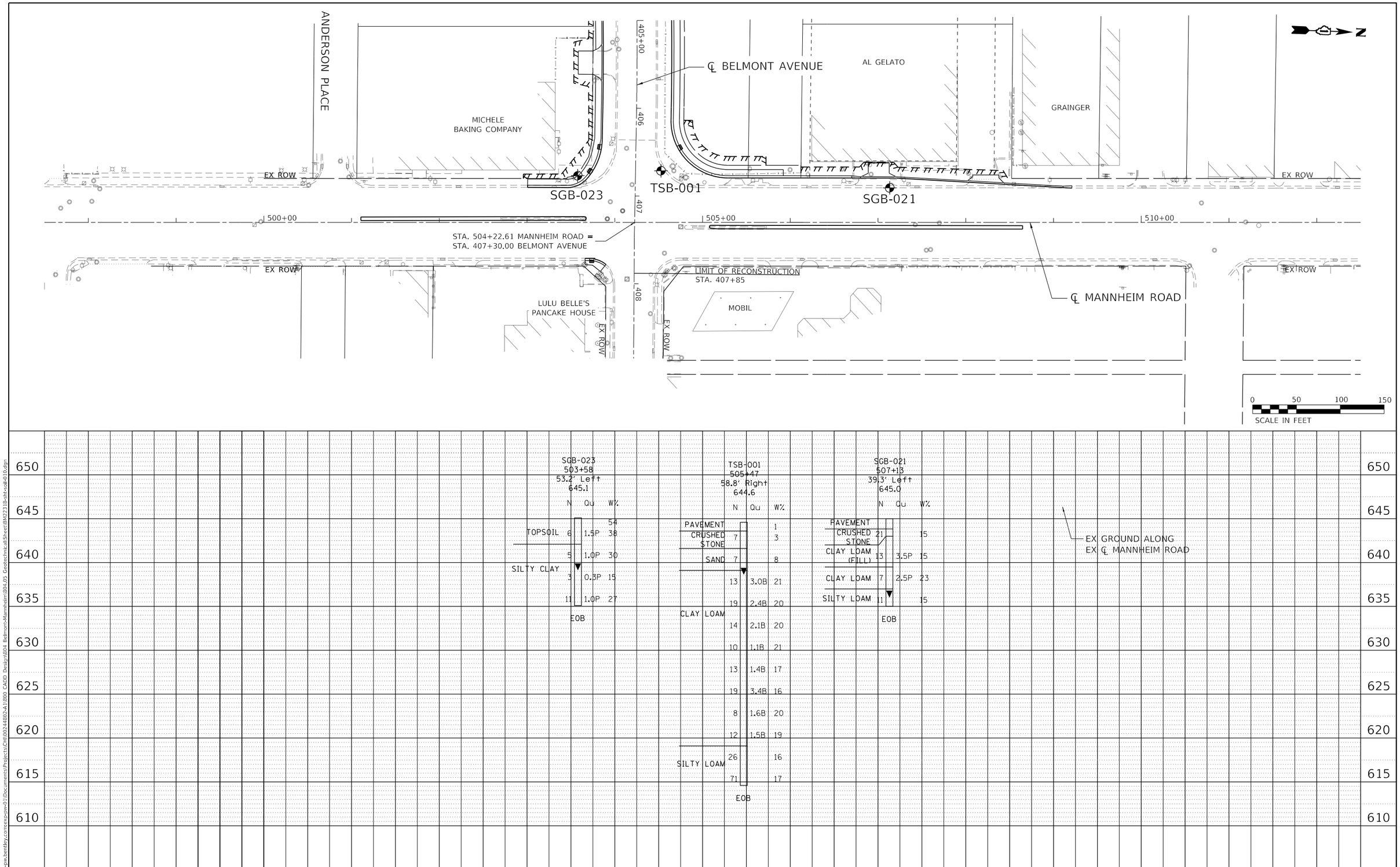
ROADWAY SOIL BORING PLAN & PROFILE
BELMONT AVENUE

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	111

Contract No. 61K16

ILLINOIS | FED. AID PROJECT



PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
PROFILE CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

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FILE NAME = BM22318-sht-soil-010.dgn	USER NAME = GARCIAAZ	DESIGNED - AJP	REVISED -
Geo Services, Inc. Geotechnical, Environmental, Civil Engineering and Electrical Services An MBE - DBE Firm		DRAWN - RWC	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DGT	REVISED -
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY SOIL BORING PLAN & PROFILE
MANNHEIM ROAD

SCALE: HORIZ. 1"=50' VERT. 1"=5' STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	112

Contract No. 61K16

ILLINOIS FED. AID PROJECT

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

PAVEMENT CORE SUMMARY

Project: Franklin Avenue Reconstruction — GSI Job No.: 19083
Location: Franklin Avenue from Acorn Lane to Mannheim Road, Franklin Park, Illinois — Date: 11/20/2019
County: Cook — Cored By: TZ
Client: EXP — Checked By: AJP

CORE NO.	THICKNESS (in.)	MATERIAL DESCRIPTION
COR-001		Northing: 1923462.4 Easting: 1099491.9
	1.75	ASPHALT-slightly porous, fine to medium coarse aggregate.
	3.5	ASPHALT-fractuered @ base, fine to medium coarse aggregate.
	4.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.5	ASPHALT-slightly porous, fine to medium coarse aggregate.
	3.75	ASPHALT-slightly porous, fine to medium coarse aggregate.
	8.5+	SILTY CLAY-dark brown & black
COR-002		Northing: 1923096.5 Easting: 1100421.1
	2.25	ASPHALT-slightly porous, fine to medium coarse aggregate.
	2.5	ASPHALT-well consolidated, fine to medium coarse aggregate.
	4.25	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	4.5	ASPHALT-well consolidated, fine to medium coarse aggregate.
	8.5+	TOPSOIL-black
COR-003		Northing: 1922653.1 Easting: 1101317.4
	2.5	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	10.0	PCC-well consolidated
	4.0	CRUSHED STONE
	5.5+	SILTY CLAY-brown
COR-004		Northing: 1922208.7 Easting: 1102214.8
	1.75	ASPHALT-slightly porous, fine to medium coarse aggregate.
	2.0	ASPHALT-slightly porous, fine to medium coarse aggregate.
	9.5	PCC-well consolidated
	4.0	CRUSHED STONE
	6.75+	SILTY CLAY-dark brown to black
COR-005		Northing: 1921751.7 Easting: 1103109.1
	1.25	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.75	ASPHALT-well consolidated, fine to medium coarse aggregate.
	4.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	16.0+	CLAYEY SAND & GRAVEL-dark gray to black
COR-006		Northing: 1921318.2 Easting: 1104036.9
	2.25	ASPHALT-slightly porous, fine to medium coarse aggregate.
	2.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	1.75	ASPHALT-slightly porous, fine to medium coarse aggregate.
	3.0	CRUSHED STONE
	13.0+	SILTY CLAY-dark gray to black
COR-007		Northing: 1921054.0 Easting: 1104957.8
	2.25	ASPHALT-well consolidated, fine to medium coarse aggregate.
	2.0	ASPHALT-well consolidated, fine to medium coarse aggregate.
	10.25	PCC-well consolidated, 1/4" wire mesh @ -4.25" & -6.25".
	8.0	CRUSHED STONE
	1.5+	SILTY CLAY-dark brown & black
COR-008		Northing: 1921157.4 Easting: 1105948.0
	10.75	PCC-well consolidated, 1/4" wire mesh @ -4.0".
	3.0	CRUSHED STONE
	10.25+	SILTY CLAY-dark brown & black

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

PAVEMENT CORE SUMMARY

Project: Franklin Avenue Reconstruction — GSI Job No.: 19083
Location: Franklin Avenue from Acorn Lane to Mannheim Road, Franklin Park, Illinois — Date: 11/20/2019
County: Cook — Cored By: TZ
Client: EXP — Checked By: AJP

CORE NO.	THICKNESS (in.)	MATERIAL DESCRIPTION
COR-009		Northing: 1920008.2 Easting: 1105802.1
	9.5	PCC-well consolidated, 1/4" wire mesh @ -3.25".
	14.5+	CRUSHED STONE
COR-010		Northing: 1919735.5 Easting: 1106025.3
	10.0	PCC-well consolidated, 1/4" wire mesh @ -5.0".
	3.0	CRUSHED STONE
	11.0+	SILTY CLAY-black

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FILE NAME = BM22318-sht-soil-012_PavementCores.dgn	USER NAME = GARCIAAZ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - RWC	REVISED -	
Geo Services, Inc. Geotechnical, Environmental, Civil Engineering and Electrical Services An MBE - DBE Firm	PLOT SCALE = 100.0000 ' / in.	CHECKED - DGT	REVISED -	
	PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

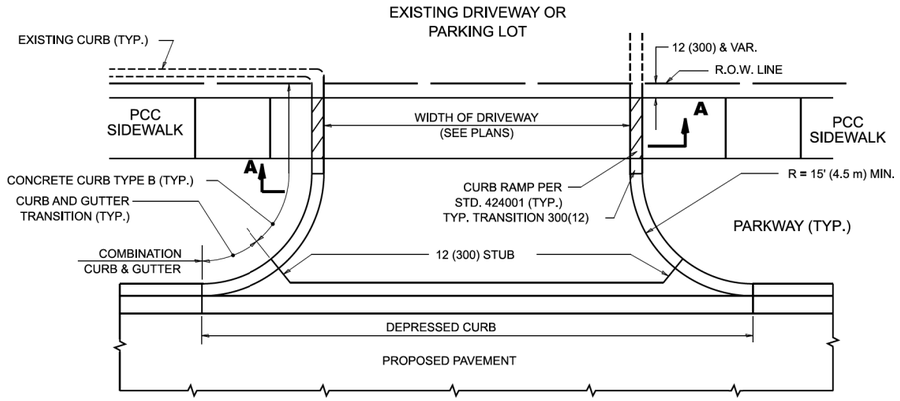
PAVEMENT CORES

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

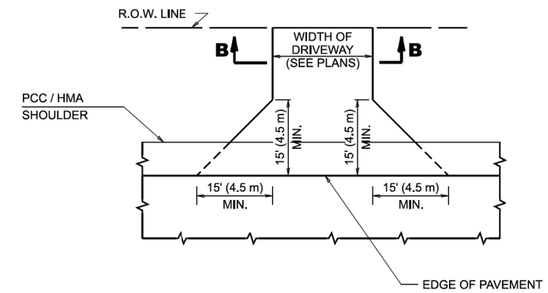
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	113

CONTRACT NO. 61K16

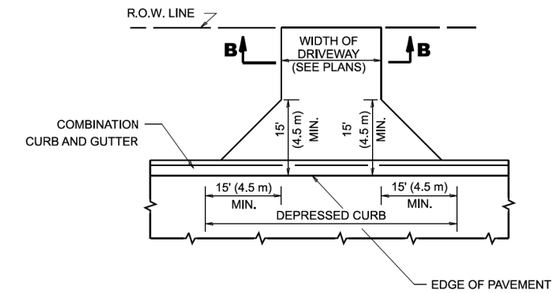
ILLINOIS | FED. AID PROJECT



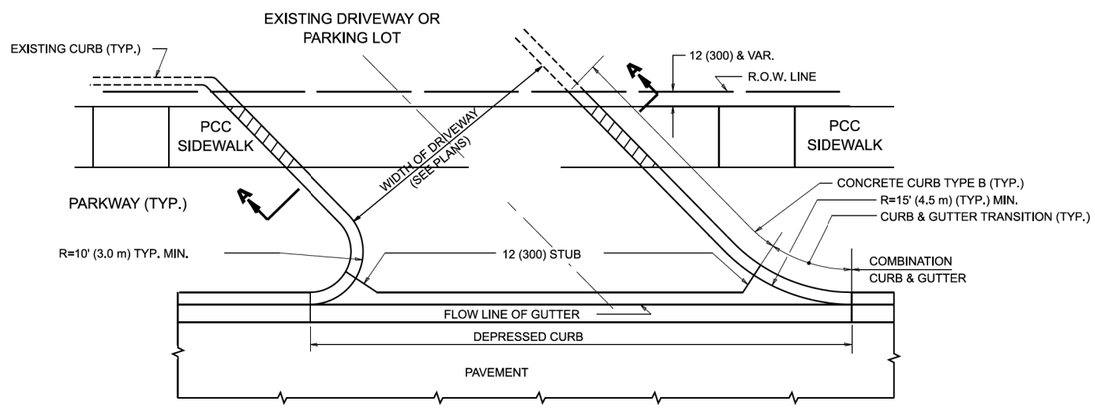
WITH CONCRETE CURB, TYPE B



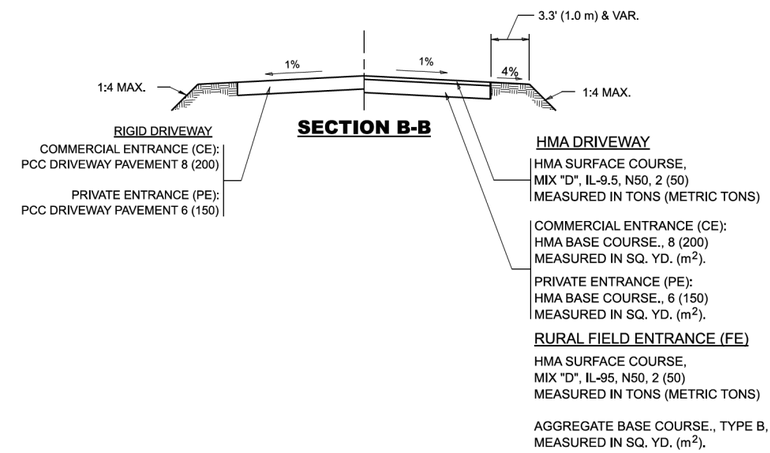
ADJACENT TO PCC / HMA SHOULDER

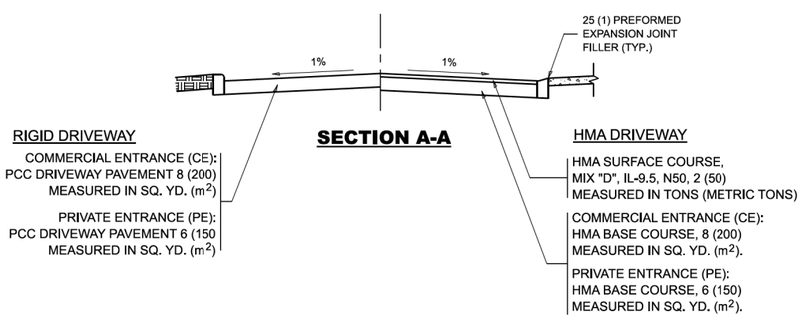


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





GENERAL NOTES

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

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

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

MODEL: Plan Single [Sheet]
FILE NAME: Z:_IDOTCAD_ORD Folder Master_Master Files\IDOTCAD_CONNECT\Configuration\Organization-Civil\IDOT_Standards\Dgnlib\Sheet Seeds\Civil_Named_Boundary_SheetSeeds.dgnlib

USER NAME = erlc.l.thomas	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 0.08333317 ' / in.	CHECKED -	REVISED - K. SMITH 08-28-19	
PLOT DATE = 8/30/2023	DATE - 11-04-95	REVISED - K. SMITH 11-18-22	

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >15'(4.5m)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	114

BD400-01 (BD-01) CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT

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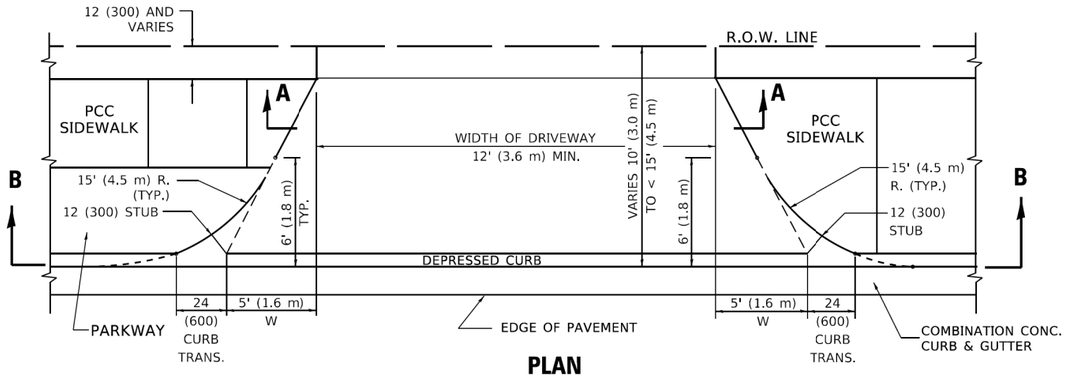
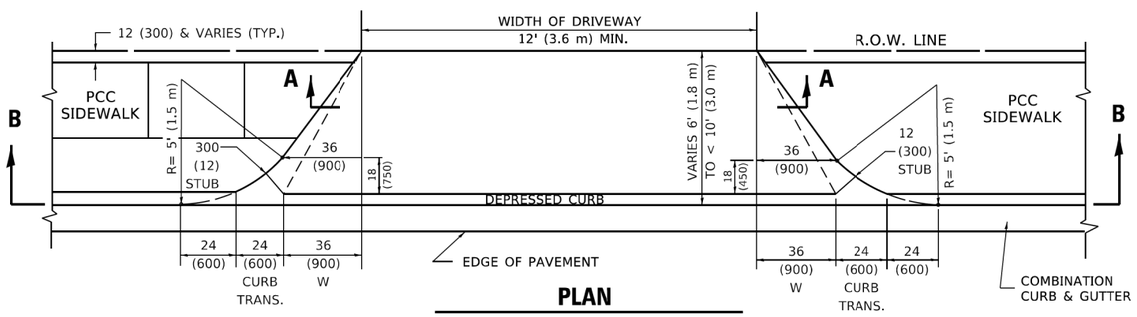


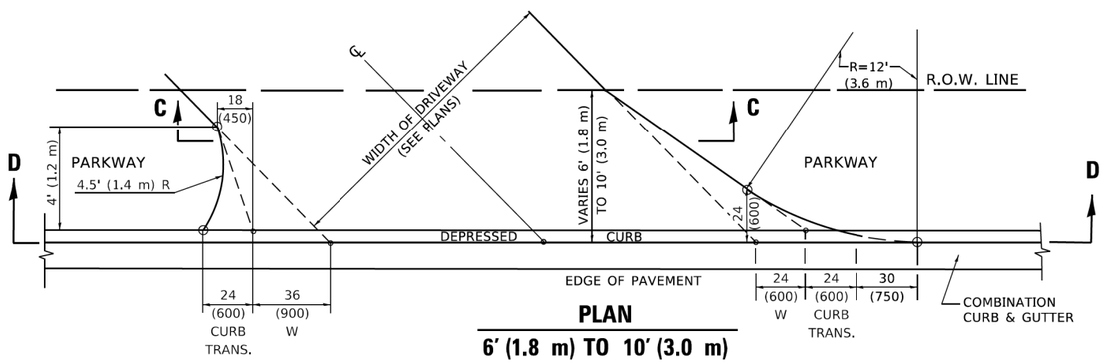
PLAN

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



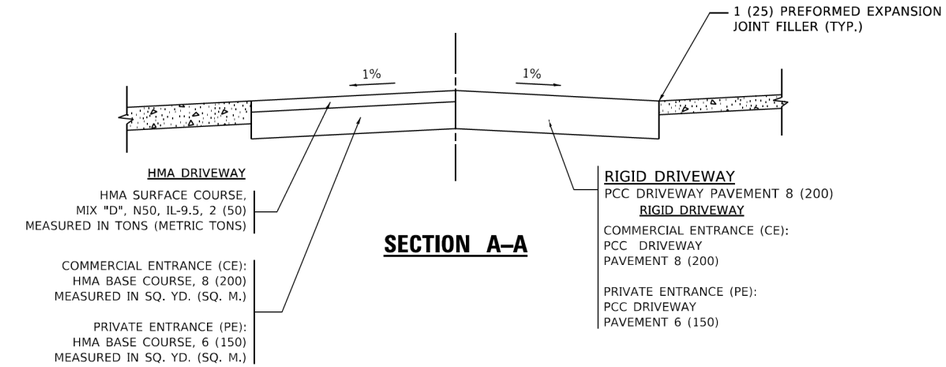
PLAN

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

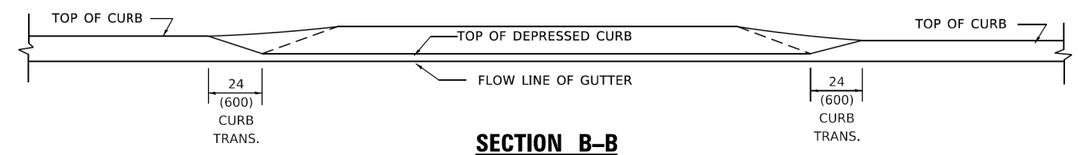


PLAN

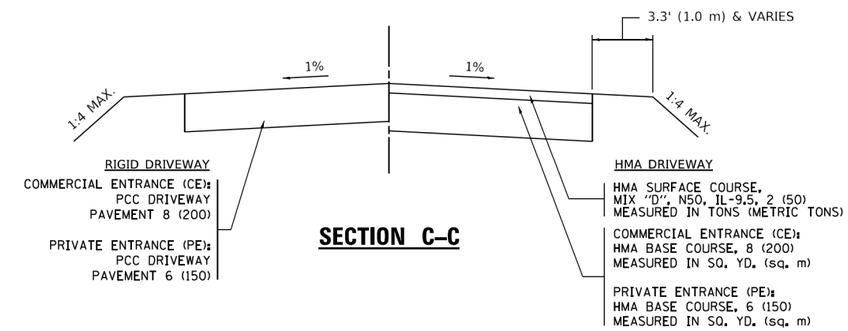
6' (1.8 m) TO 10' (3.0 m)



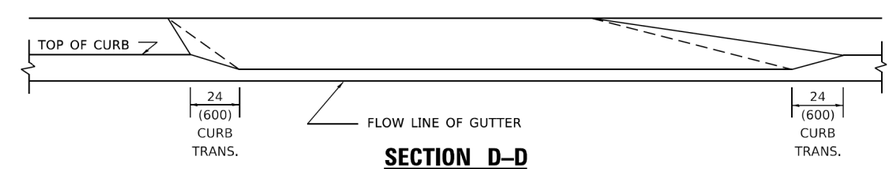
SECTION A–A



SECTION B–B



SECTION C–C



SECTION D–D

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
2. WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
3. "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

MODEL: Default
FILE NAME: pw://ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\District22x34\CADData\CADsheets\bd02.dgn

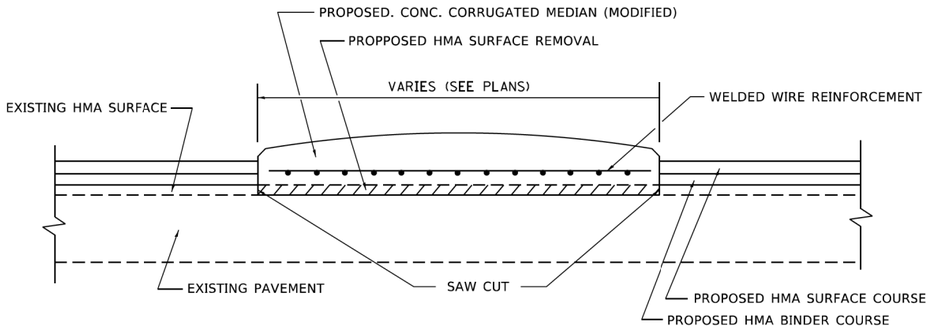
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	
	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19	
PLOT DATE = 11/18/2022	DATE - 11-06-95	REVISED - K. SMITH 11-18-22	

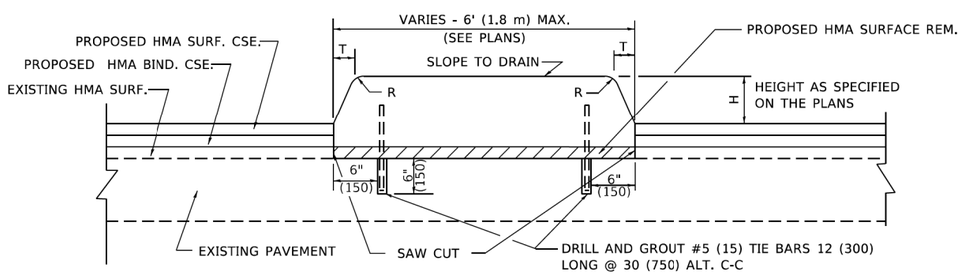
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	115
	BD400–02 (BD–02)	CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	





H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

GENERAL NOTES:

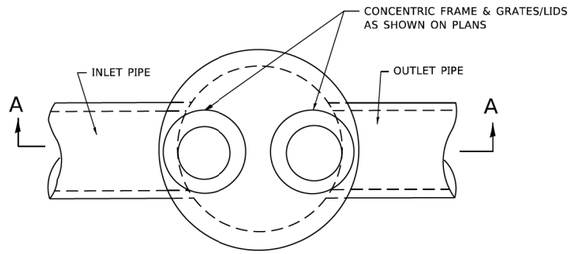
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
2. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
3. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
4. FOR TYPE SB (DOWELLED) MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE.

METHOD OF MEASURMENT:

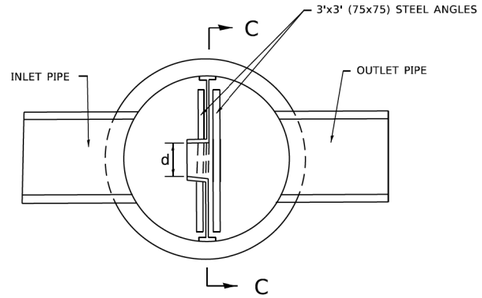
THIS WORK SHALL BE MEASURED FOR PAYMENT PER SQUARE FOOT (SQUARE METER) MEASURED IN PLACE

BASIS OF PAYMENT

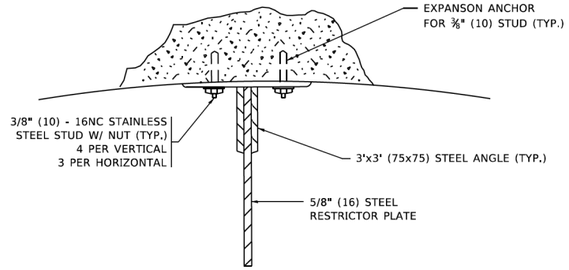
1. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)" OR CONCRETE MEDIAN TYPE SB (DOWELLED)
2. SAW CUT SHALL BE INCLUDED IN THIS COST OF CORRUGATED MEDIAN (MODIFIED) OR CONCRETE MEDIAN TYPE SB (DOWELLED).
3. WELDED WIRE REINFORCEMENT SHALL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
4. TIE BARS SHALL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
5. HMA SURFACE REMOVAL WILL BE PAID FOR SEPARATELY.



PLAN



SECTION B–B



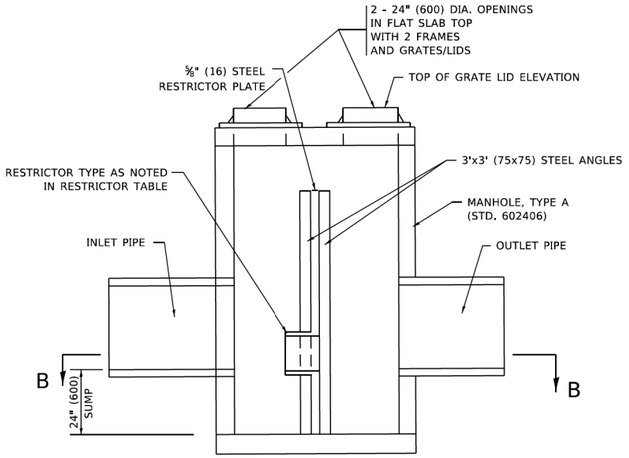
ANGLE FASTENER DETAIL

NOTES:

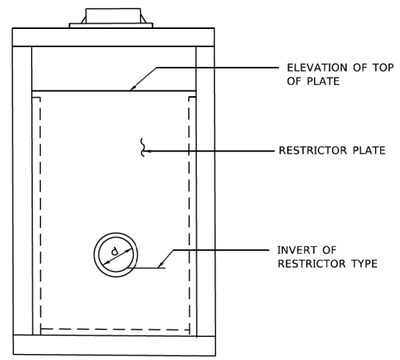
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.

BASIS OF PAYMENT:

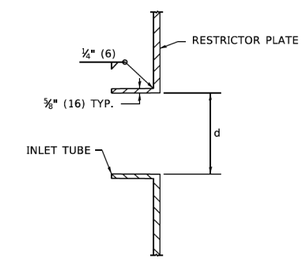
1. TO BE PAID FOR AS "MANHOLES ,TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



SECTION A–A

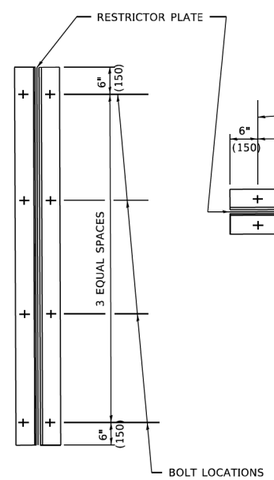


SECTION C–C

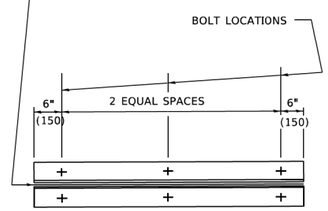


INLET TUBE DETAIL

STATION AND OFFSET	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW



TYPICAL VERTICAL ANGLES
LOOKING TOWARD MANHOLE WALL

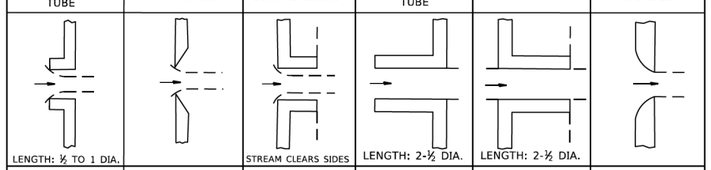


TYPICAL HORIZONTAL
ANGLES LOOKING TOWARD
BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x 3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
					
LENGTH: ½ TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-½ DIA.	LENGTH: 2-½ DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR
AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

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

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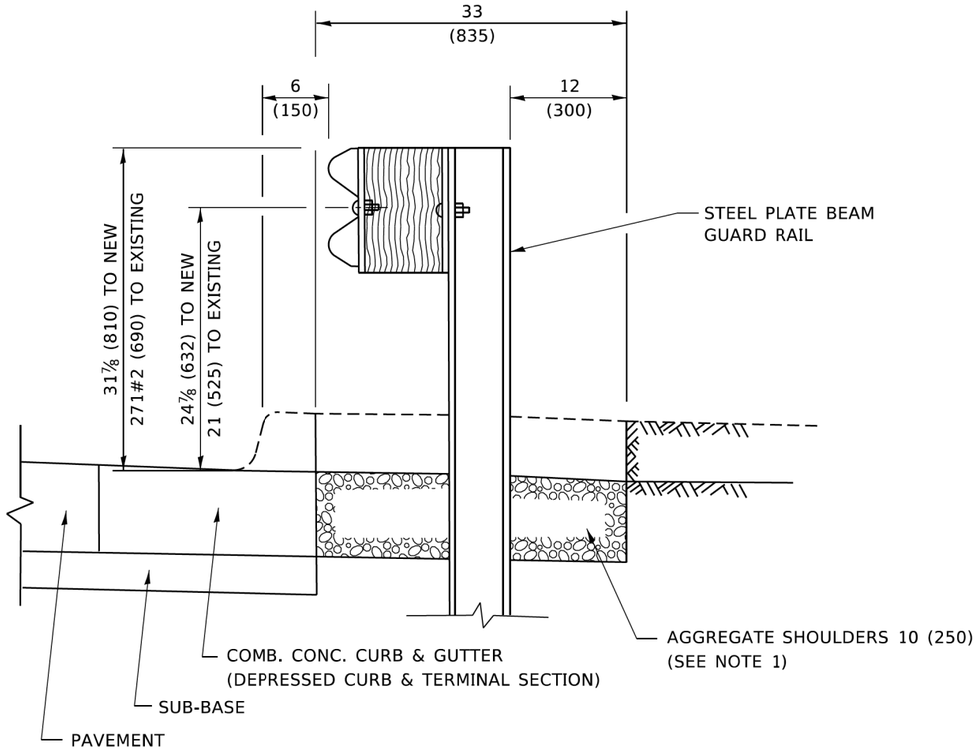
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MANHOLE WITH RESTRICTOR PLATE	
	DRAWN -	REVISED - E. GOMEZ 08-28-00			
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-08-01			
PLOT DATE = 11/18/2022	DATE - 09-09-94	REVISED - K. SMITH 11-18-22		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	117
BD600–04	(BD–12)	CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		

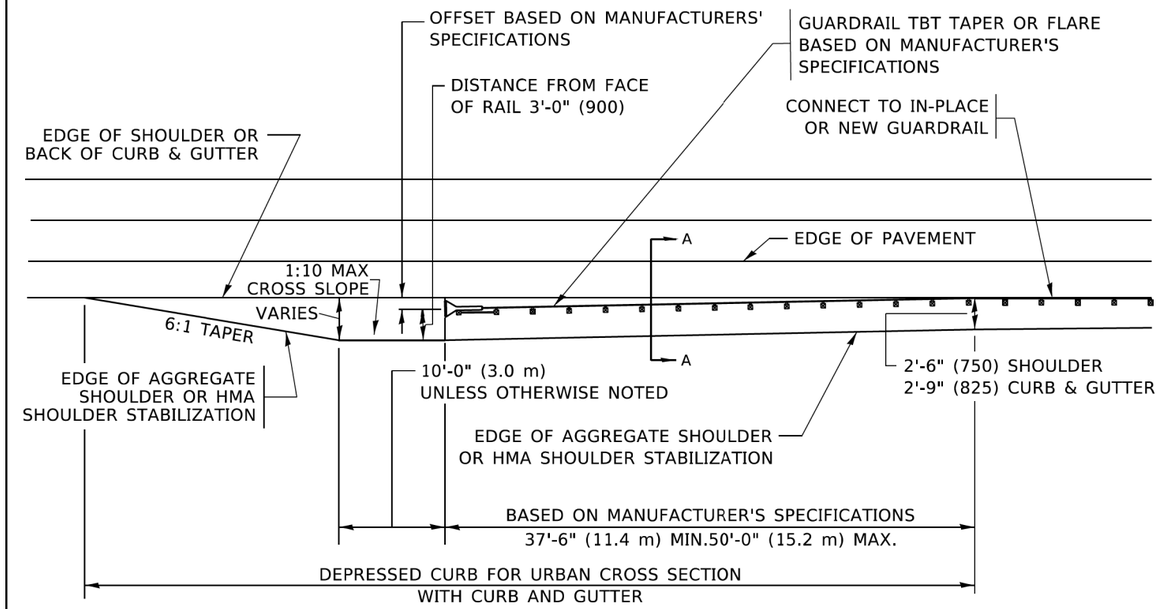


SECTION A–A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSISTION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUADRAIL.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADsheets\bd34.dgn

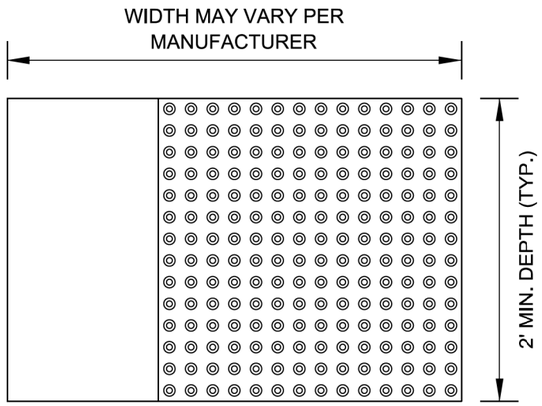
USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - R. BORO 09-14-2009	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 08-06-2012	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 05-08-2015	
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22	

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

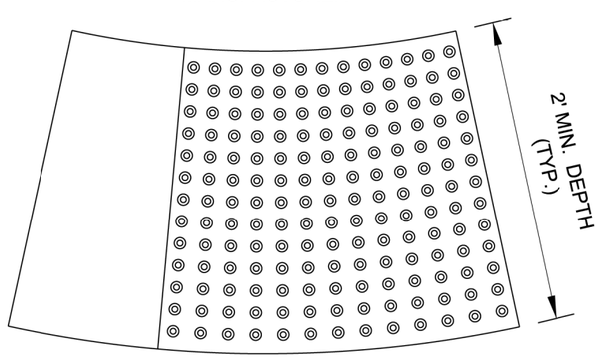
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	118
	BD600–10 (BD–34)	CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		

STRAIGHT DETECTABLE WARNING UNITS



RADIAL DETECTABLE WARNING UNITS

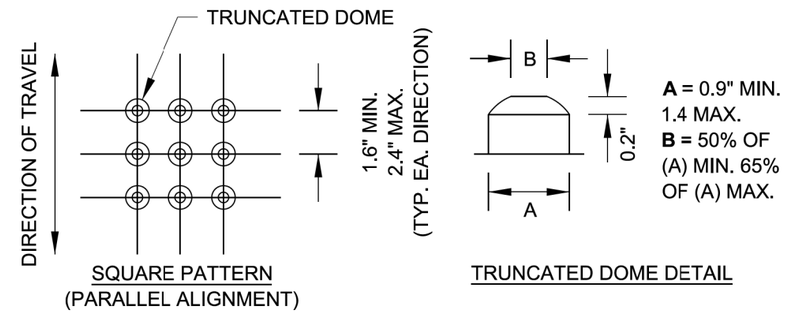


DETECTABLE WARNING UNIT SIZES

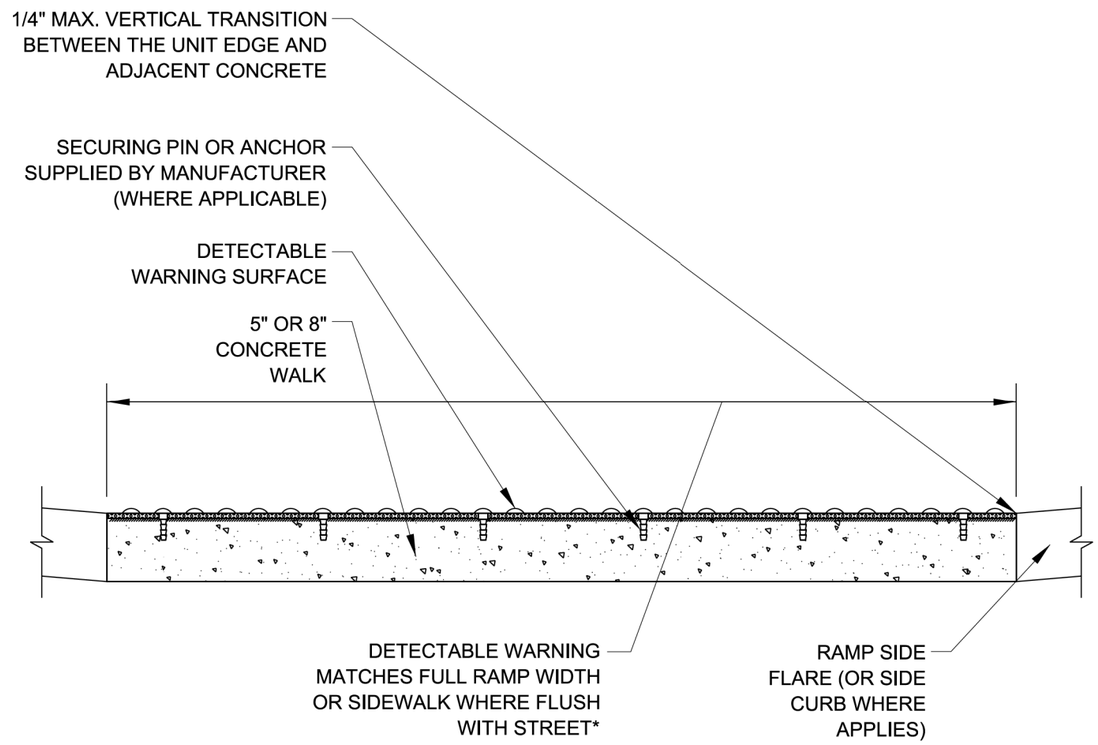
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.

- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

GENERAL NOTE:
THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



UNIT PATTERN & DOME DETAIL



*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

DETECTABLE WARNING UNIT SECTION

MODEL: Default
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USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/8/2019	DATE - 06-20-2017	REVISED -	

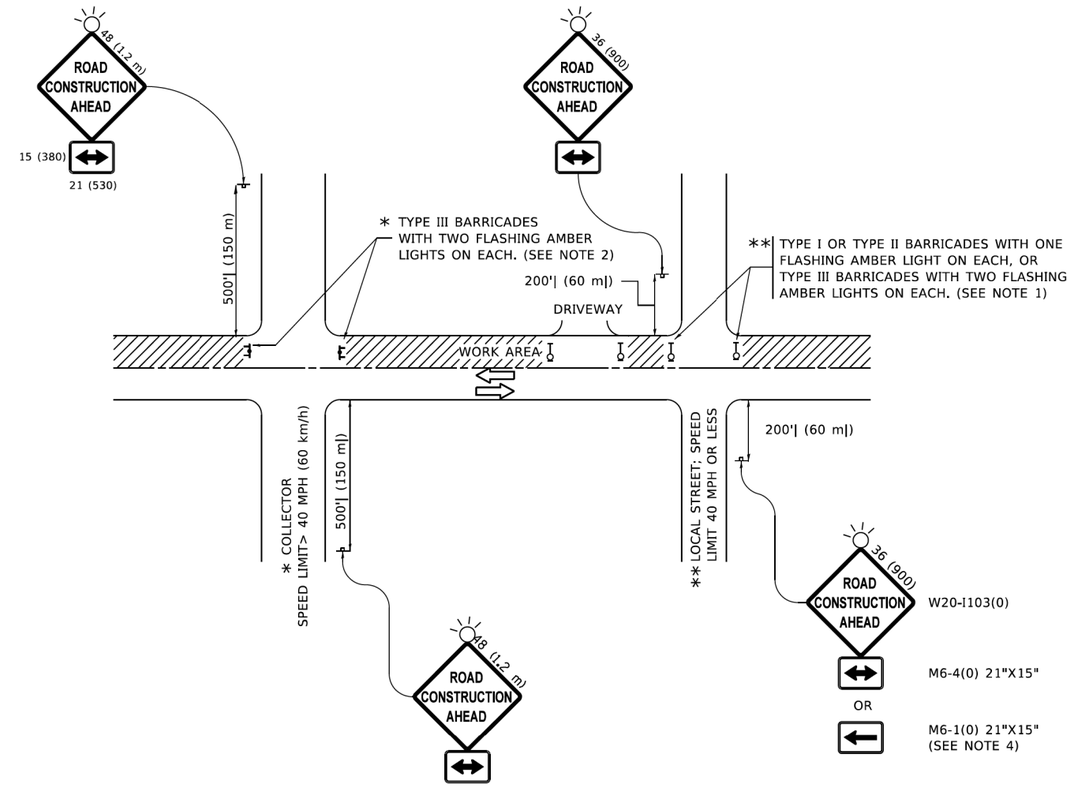
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
DETECTABLE WARNINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	119
	BD 58	CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		

bd58.dgn 10/8/2019 11:11:26 AM User:footemj



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24	

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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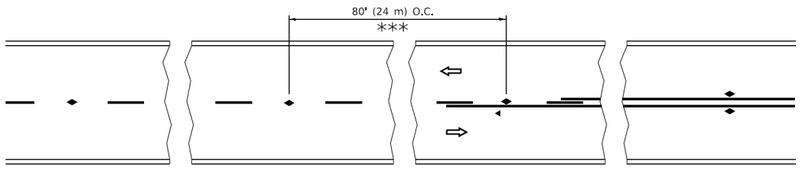
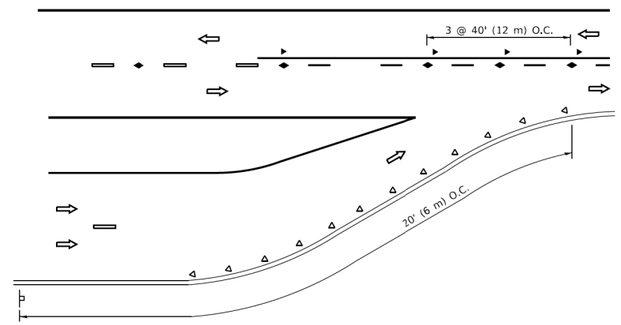
	TC-10	CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		



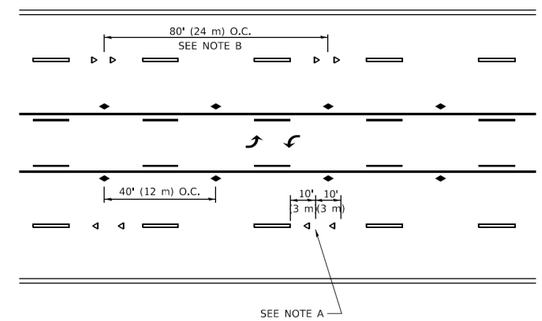
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

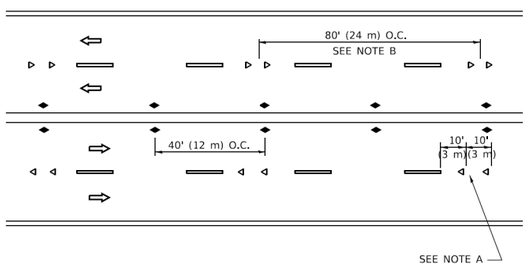
SEE FIGURE 3B-14 MUTCD



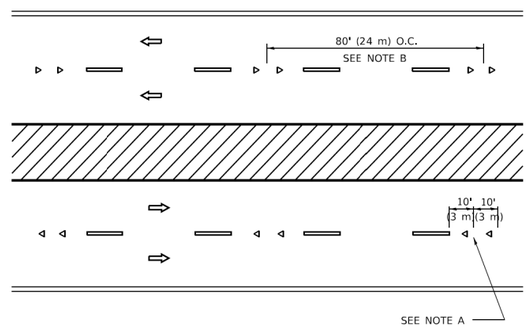
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

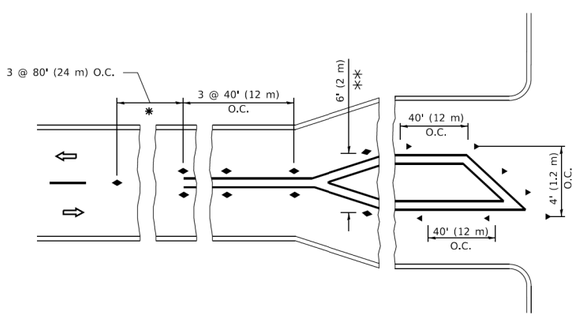
LANE MARKER NOTES

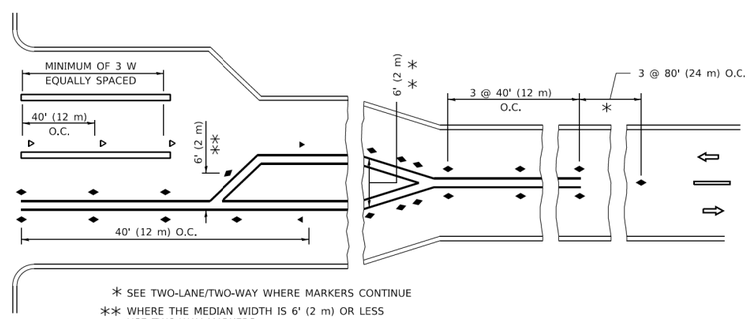
A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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





* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

TURN LANES

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

MODEL: Default
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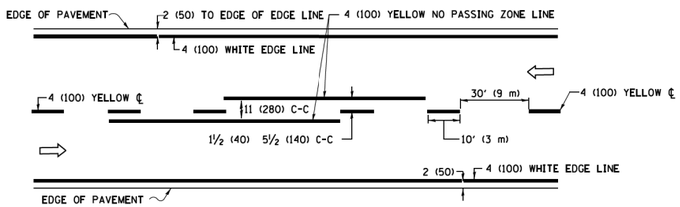
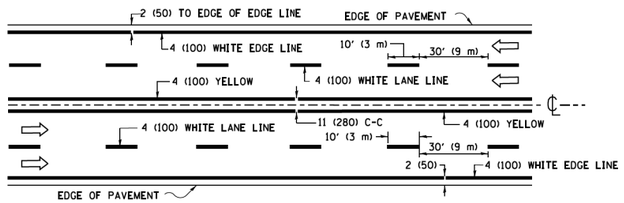
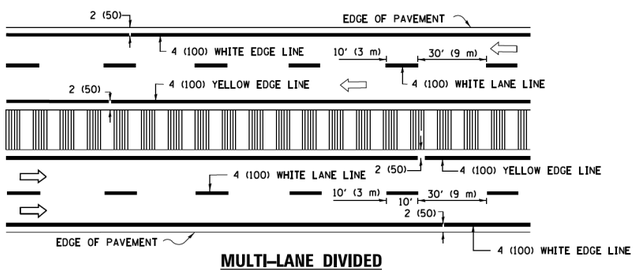
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - T. RAMMACHER 01-06-00			1373	17-00083-02-PV	COOK	157	121
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09				TC-11	CONTRACT NO. 61K16		
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	



2–LANE ROADWAY



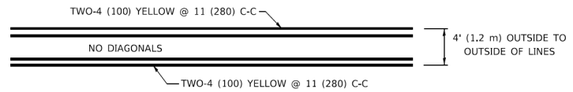
MULTI–LANE UNDIVIDED



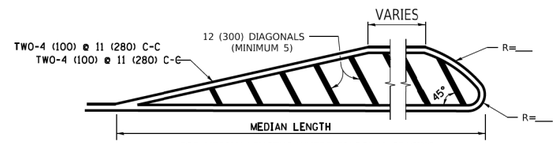
MULTI–LANE DIVIDED

WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



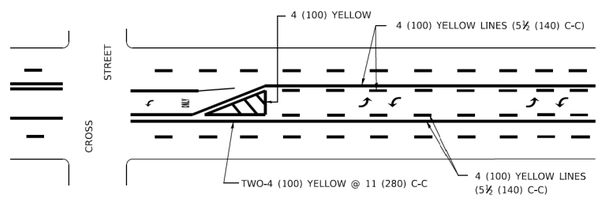
4' (1.2 m) WIDE MEDIANS ONLY



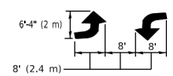
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

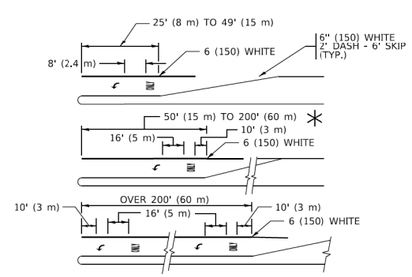


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

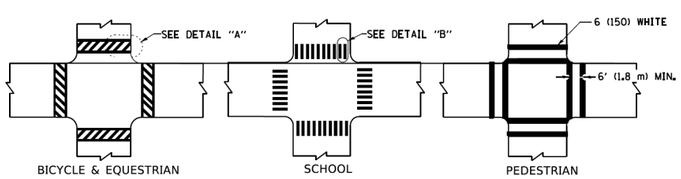


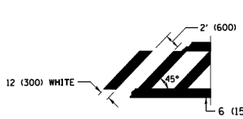
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

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

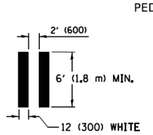
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





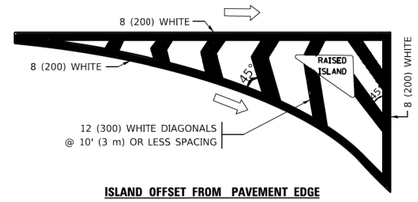
DETAIL "A"



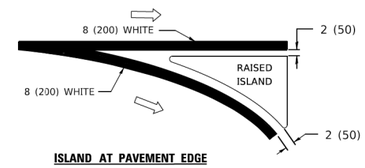
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

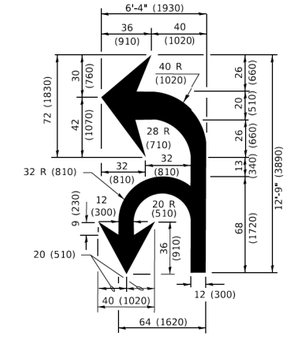


ISLAND OFFSET FROM PAVEMENT EDGE

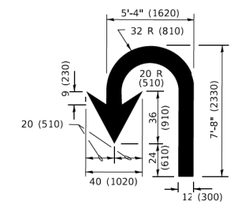


ISLAND AT PAVEMENT EDGE

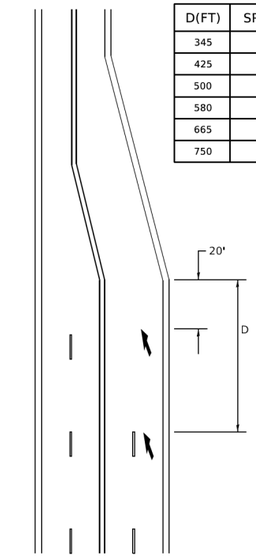
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	122
	TC–13	CONTRACT NO. 61K16		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

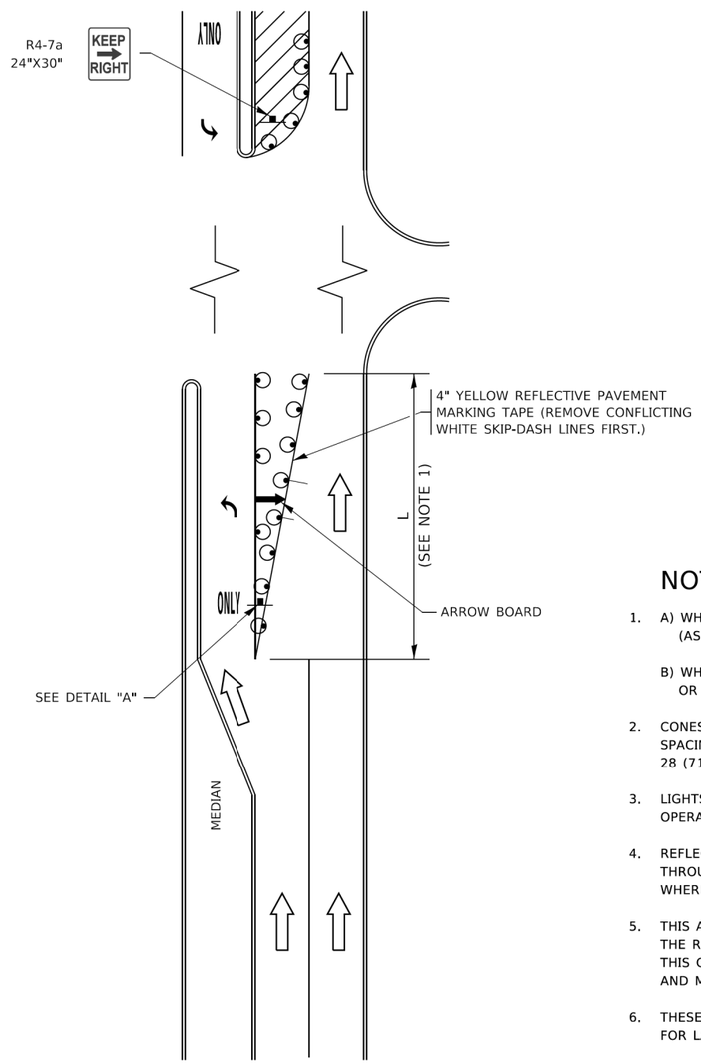


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

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

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

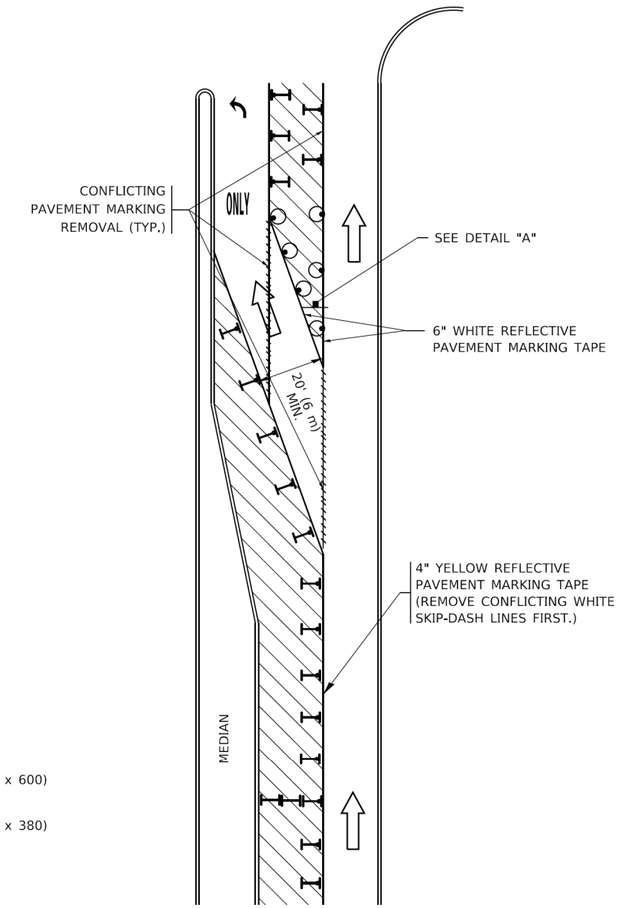
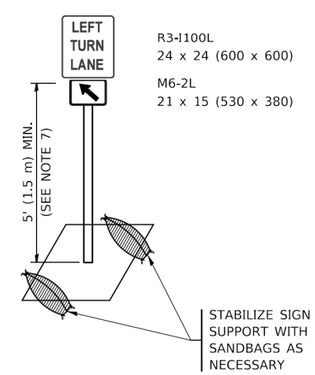


FIGURE 2



DETAIL A

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

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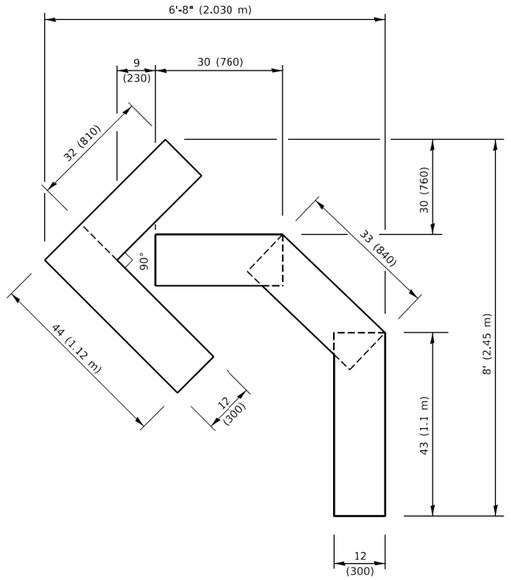
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -	

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

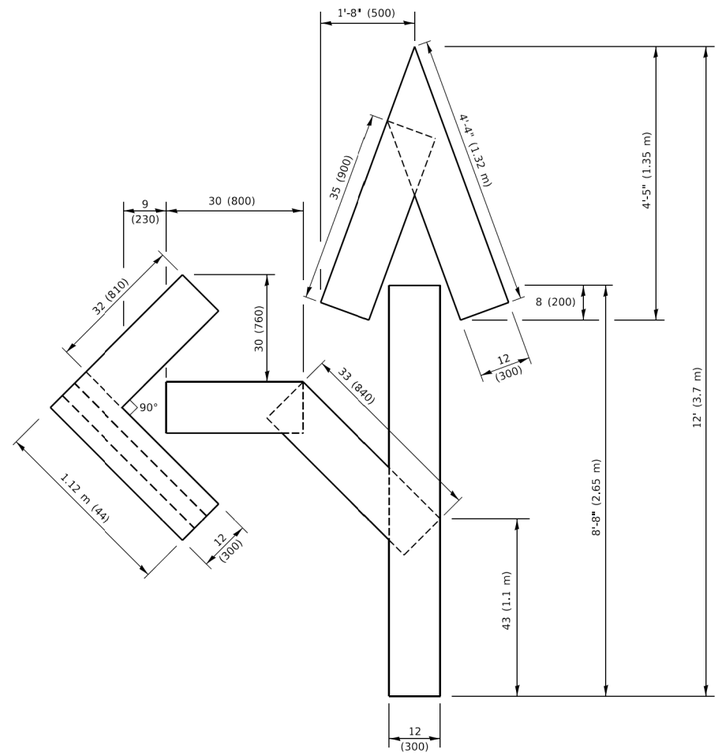
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	123
	TC-14	CONTRACT NO. 61K16		
	ILLINOIS FED. AID PROJECT			



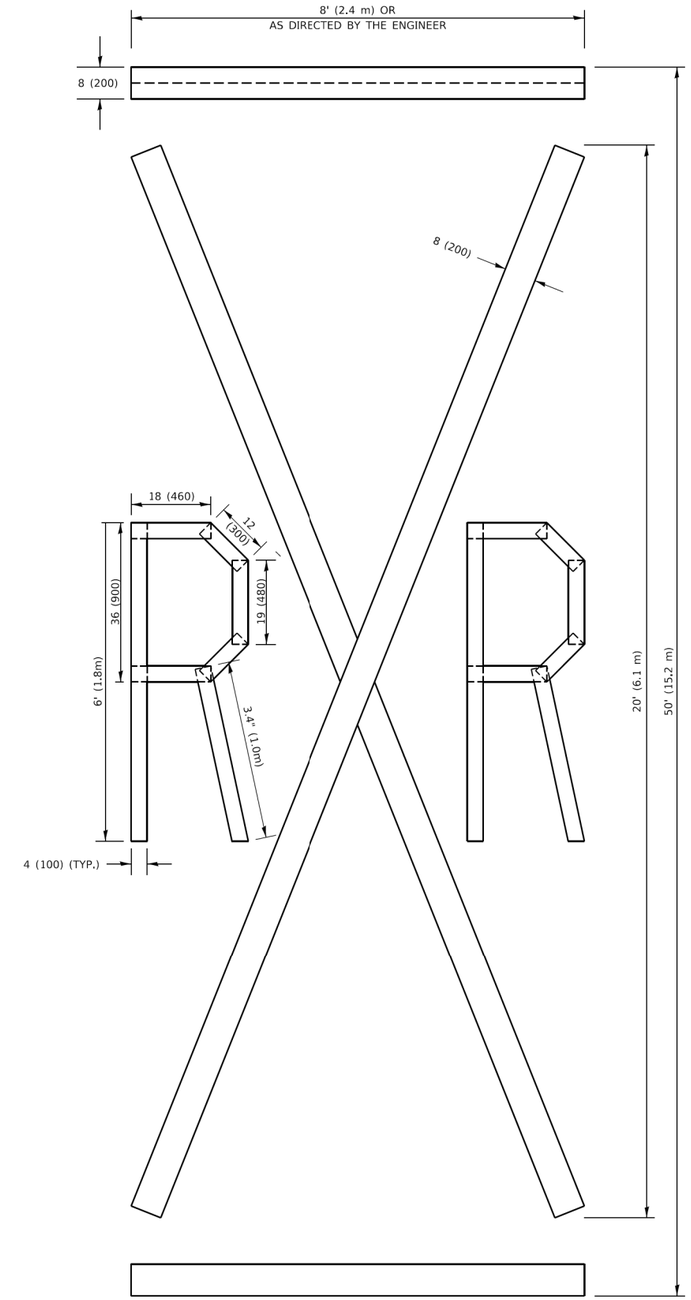
QUANTITY

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



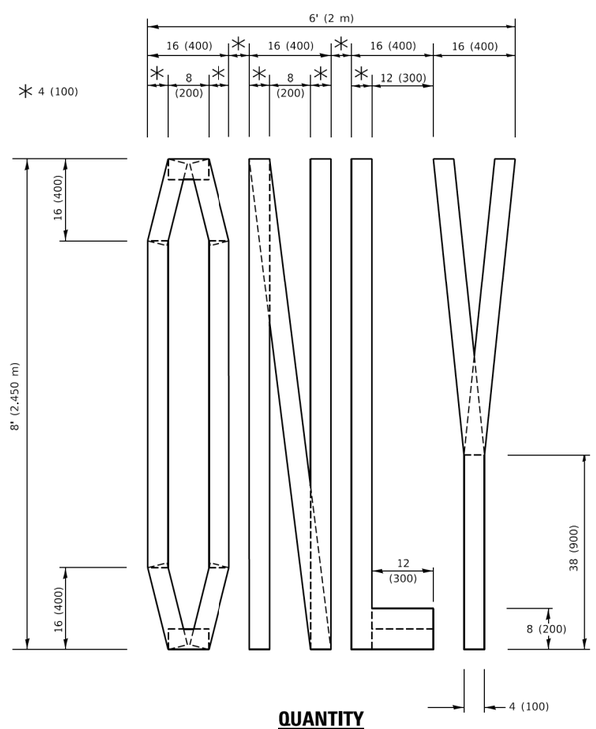
QUANTITY

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



QUANTITY

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



QUANTITY

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

NOTE:

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

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

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PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	124
	TC-16	CONTRACT NO. 61K16		
	ILLINOIS	FED. AID PROJECT		

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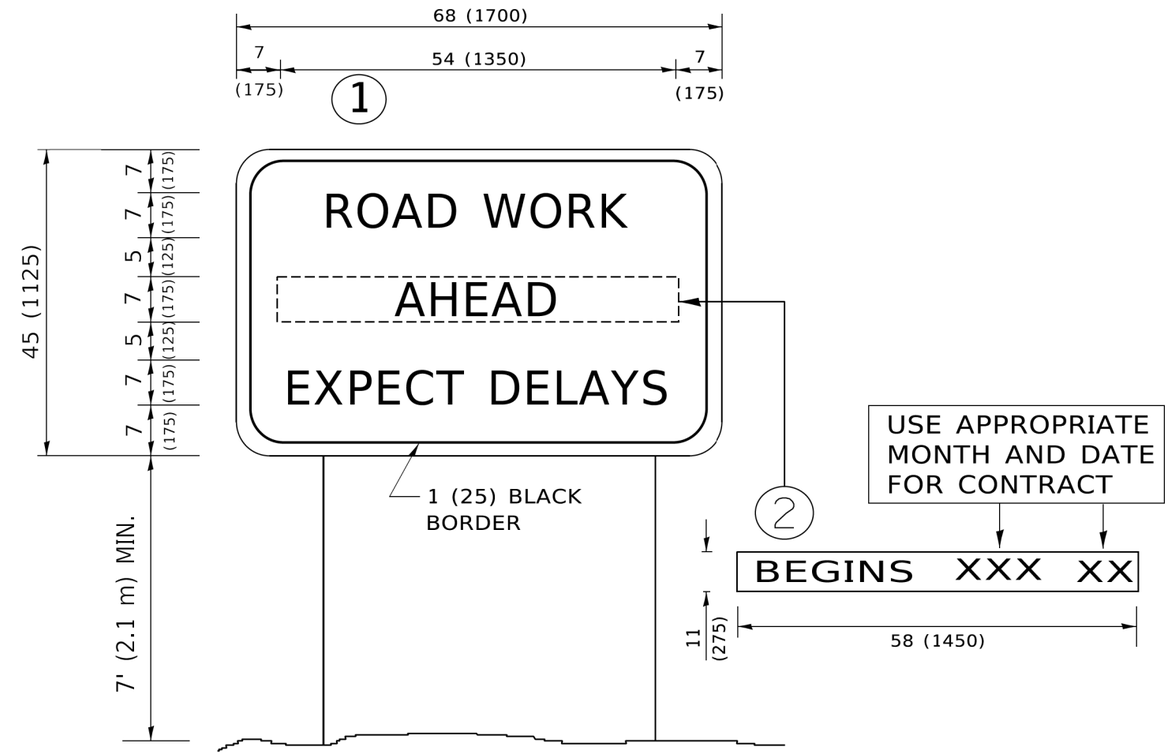

NOTES:

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

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

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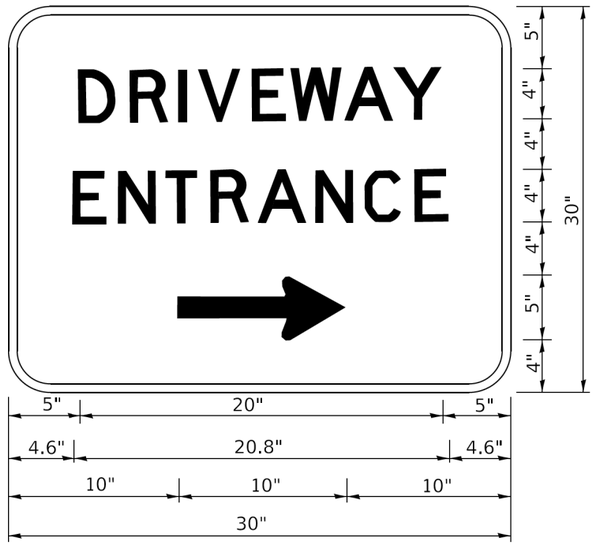
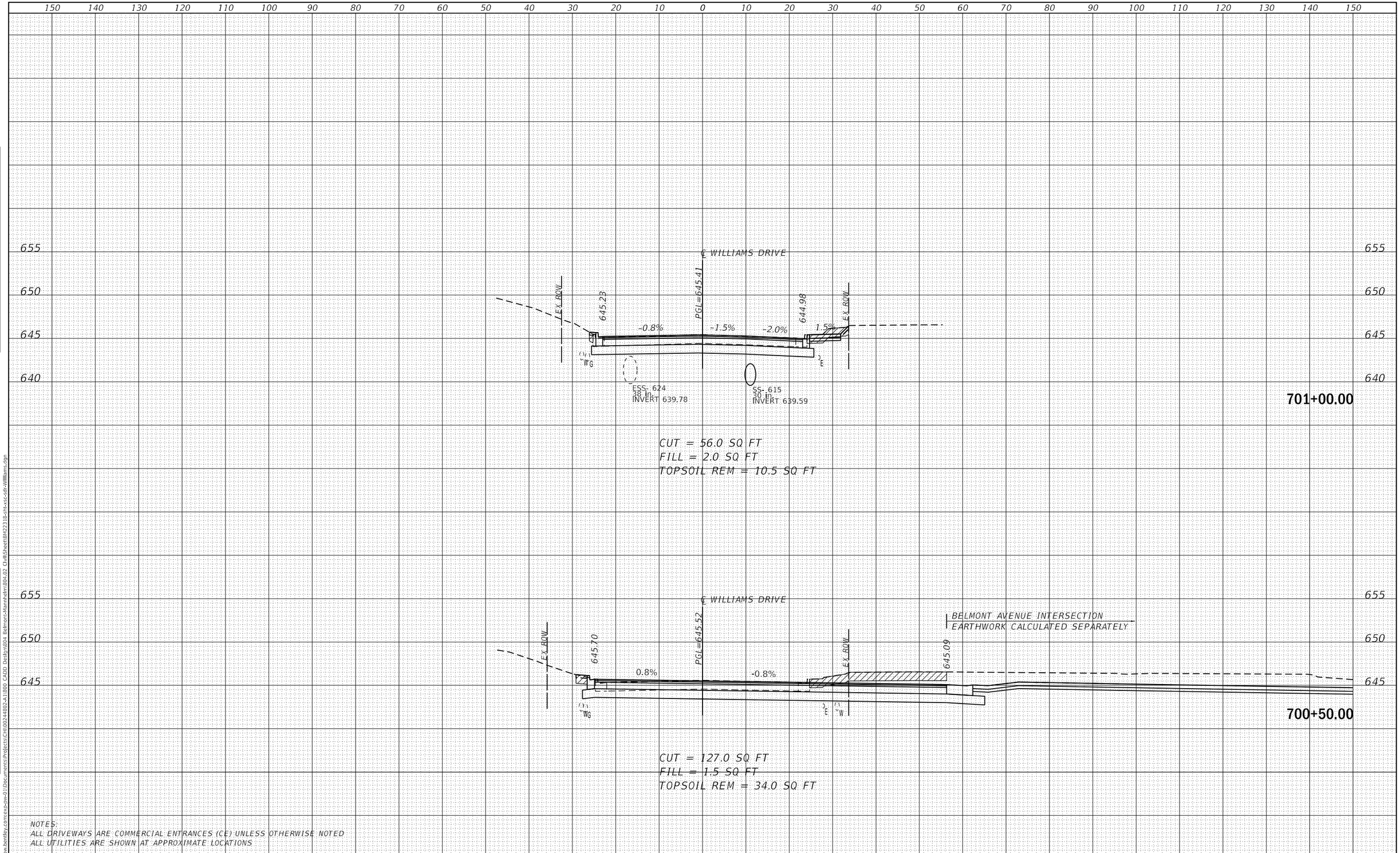
	DRAWN -	REVISED - R. MIRS 12-11-97					1373	17-00083-02-PV	COOK	157 / 125
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 61K16	
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT		



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

NOTES:

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



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

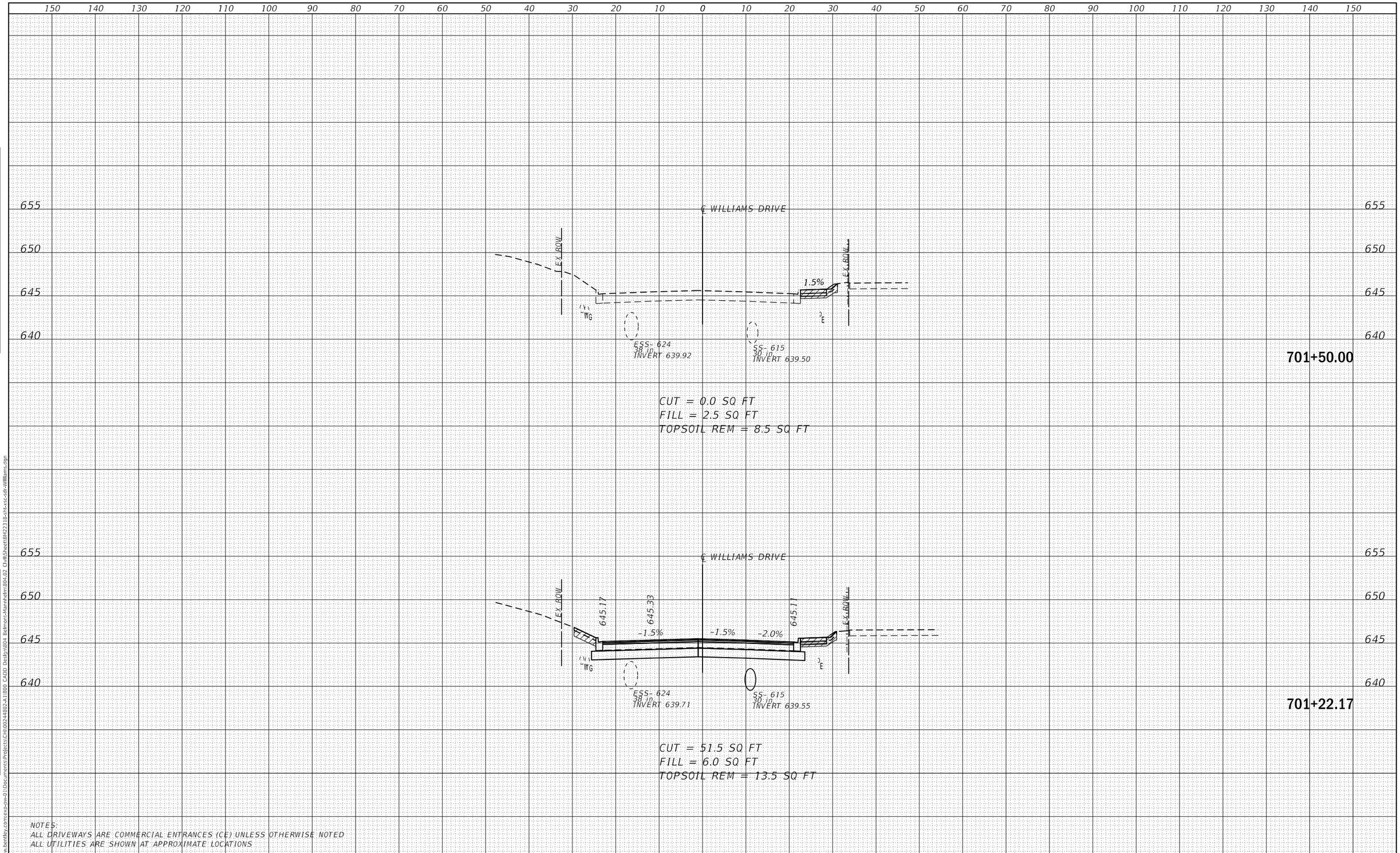
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: | SHEET OF SHEETS | STA. 700+50.00 TO STA. 701+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	127

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



NOTES:
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ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 701+22.17 TO STA. 701+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	128

CONTRACT NO. 61K16

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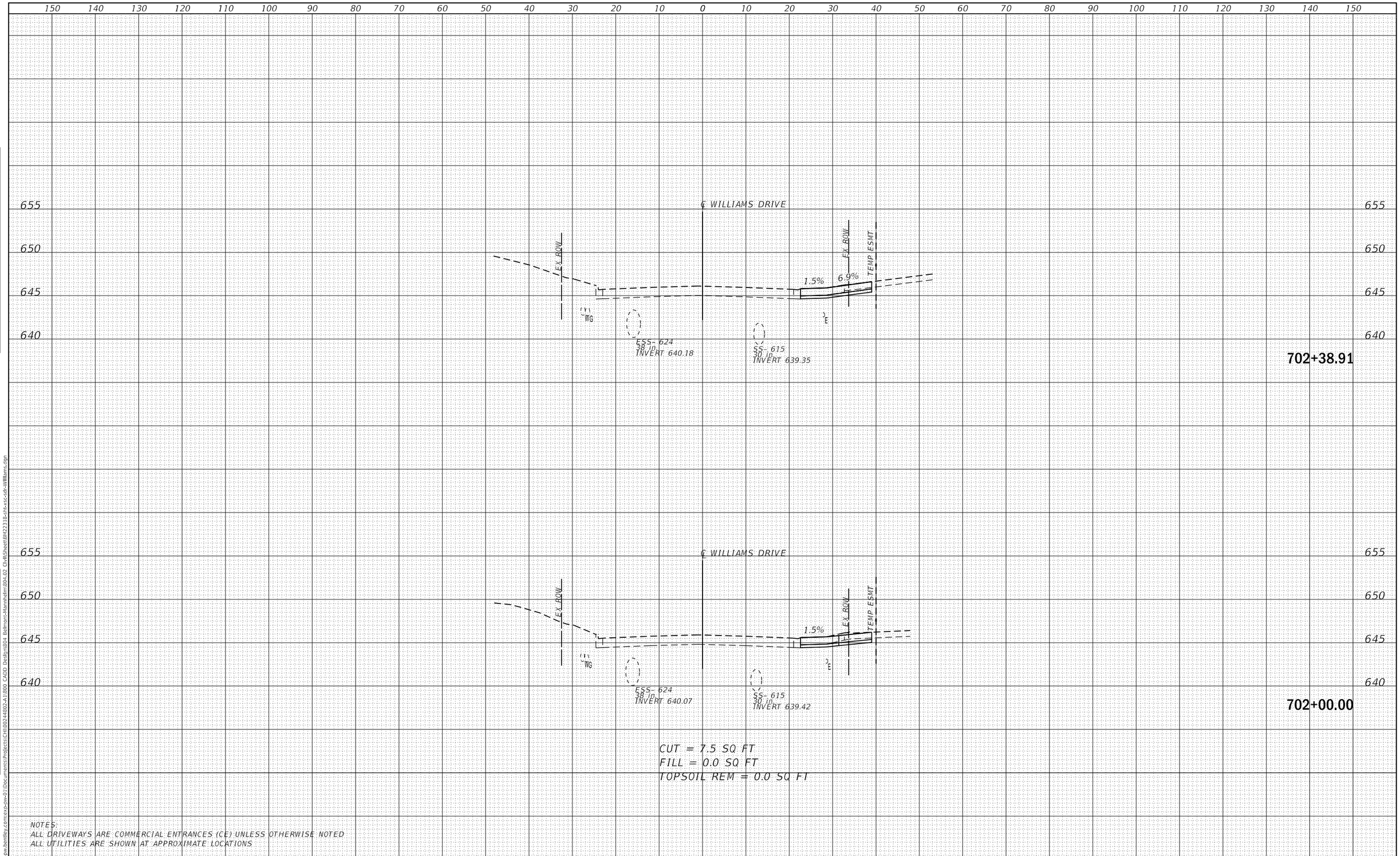

NOTES:
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DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 702+00.00 TO STA. 702+38.91

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K16

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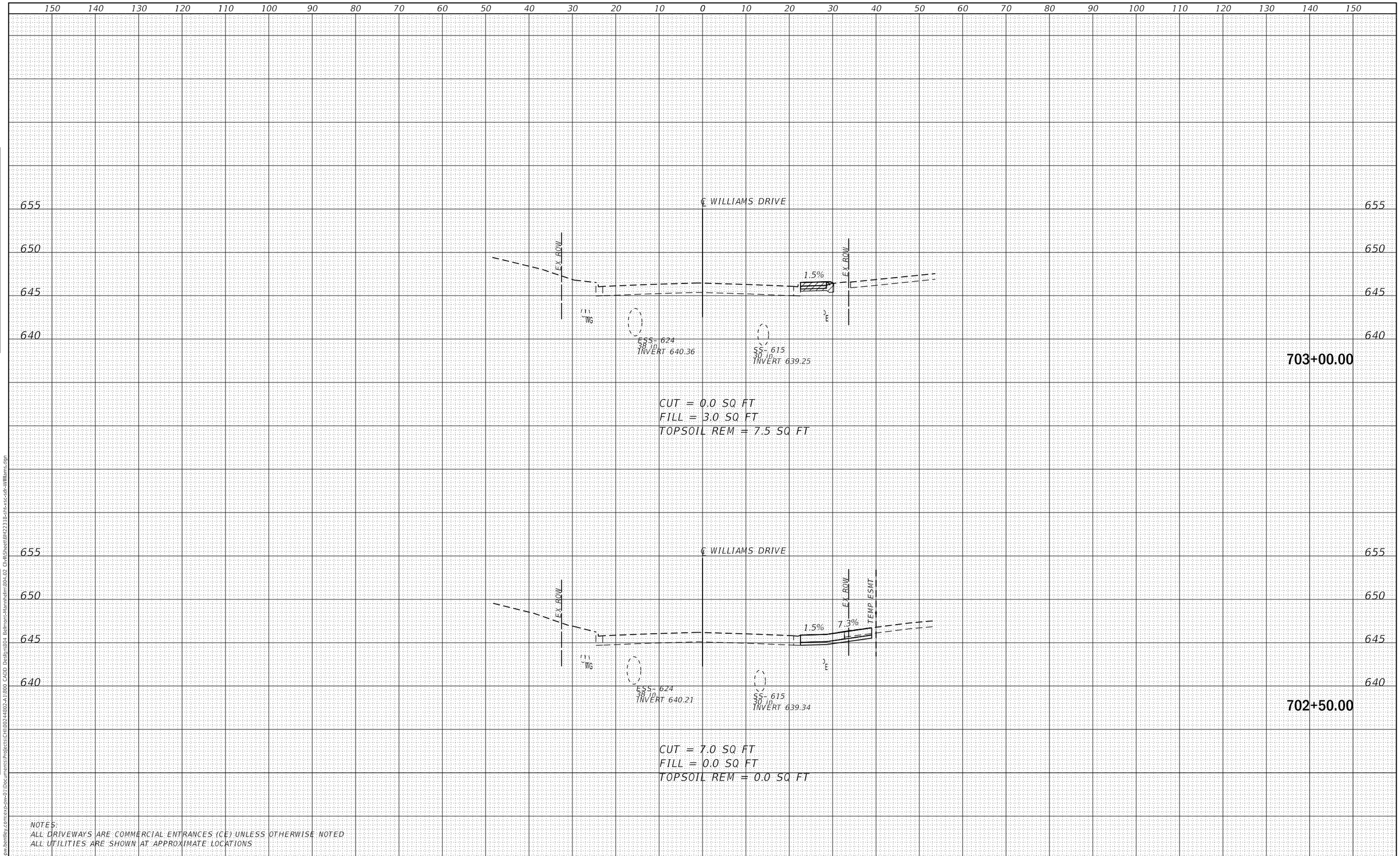

NOTES:
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ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

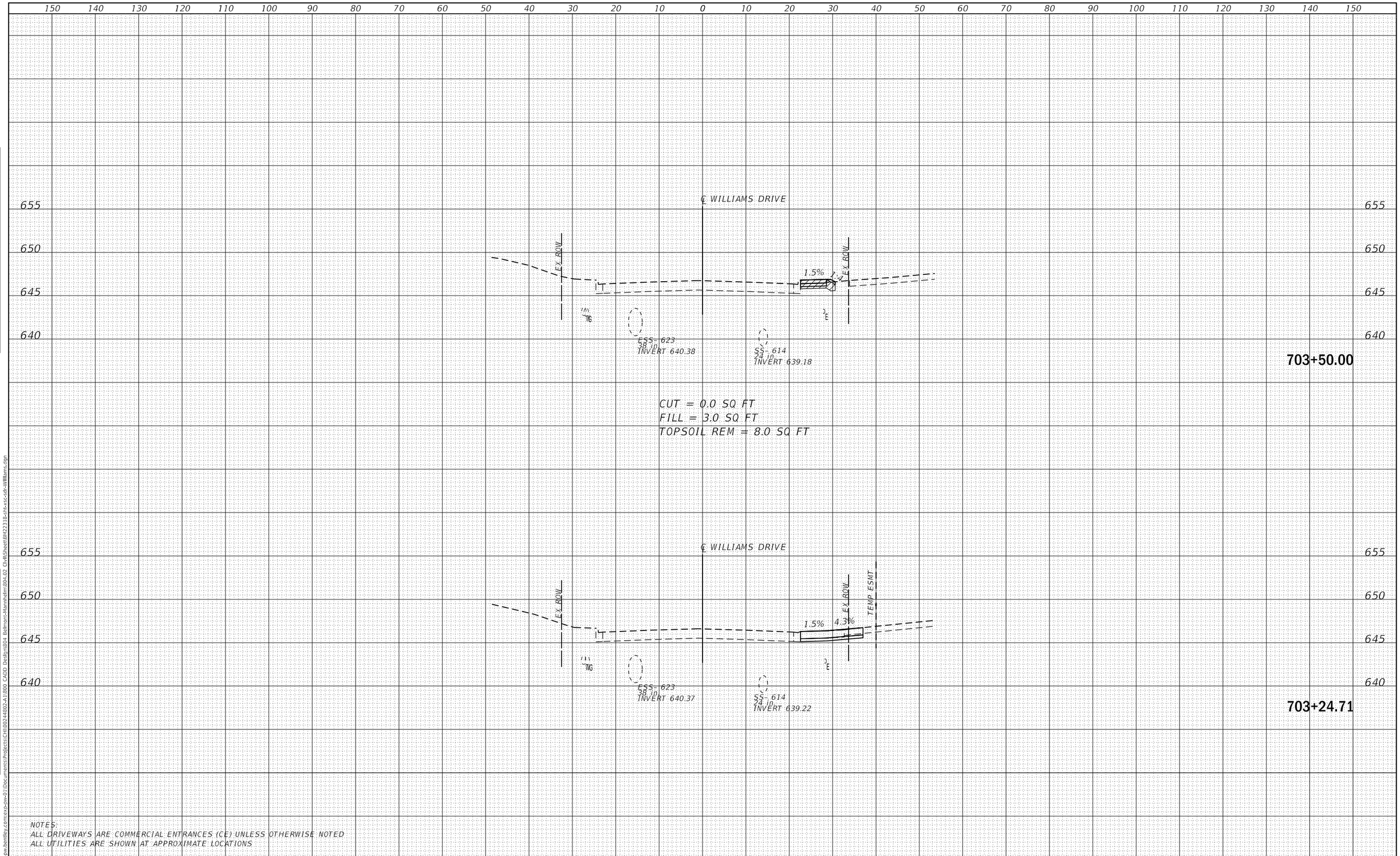
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 702+50.00 TO STA. 703+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	130

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

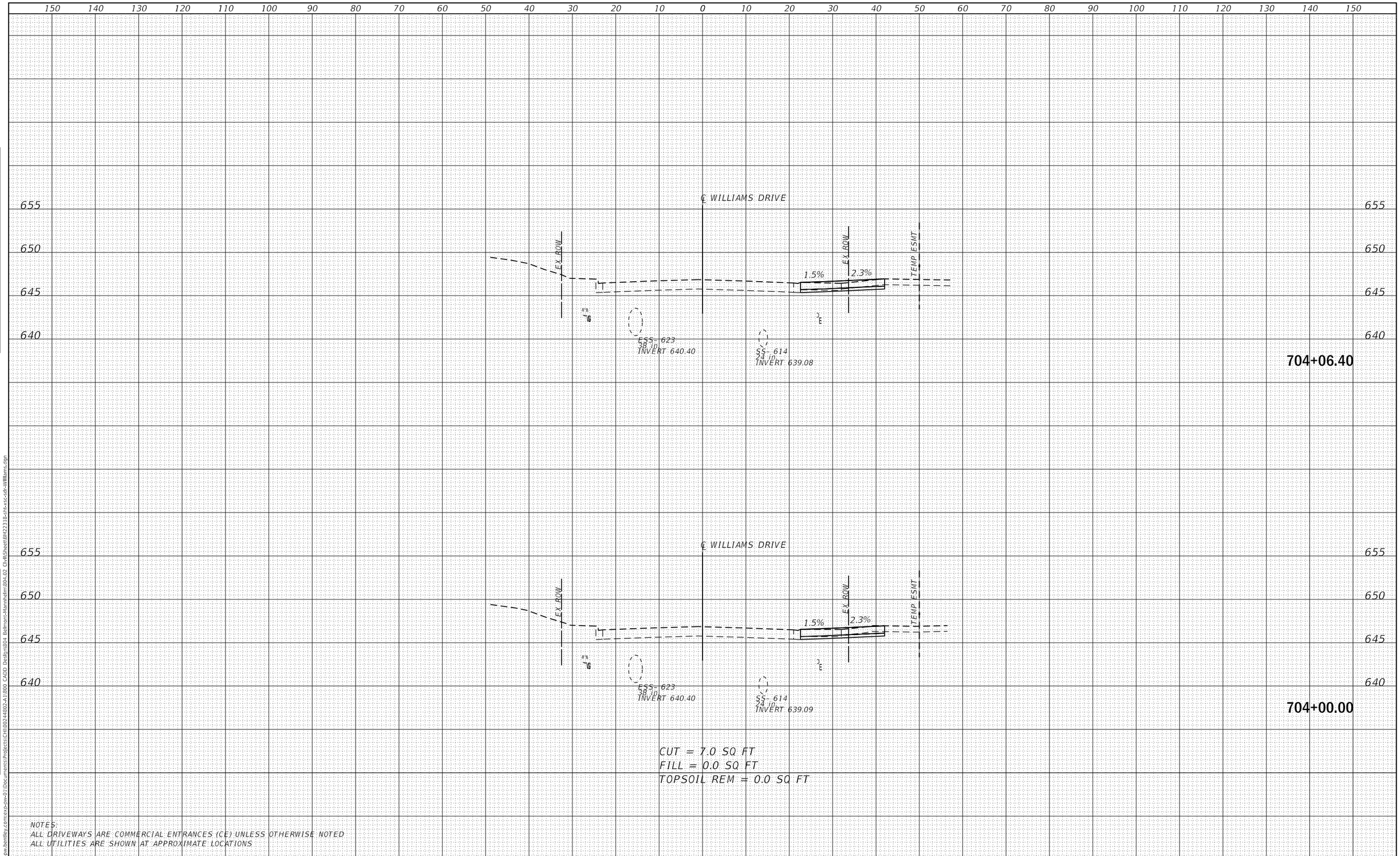
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 703+24.71 TO STA. 703+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	131

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

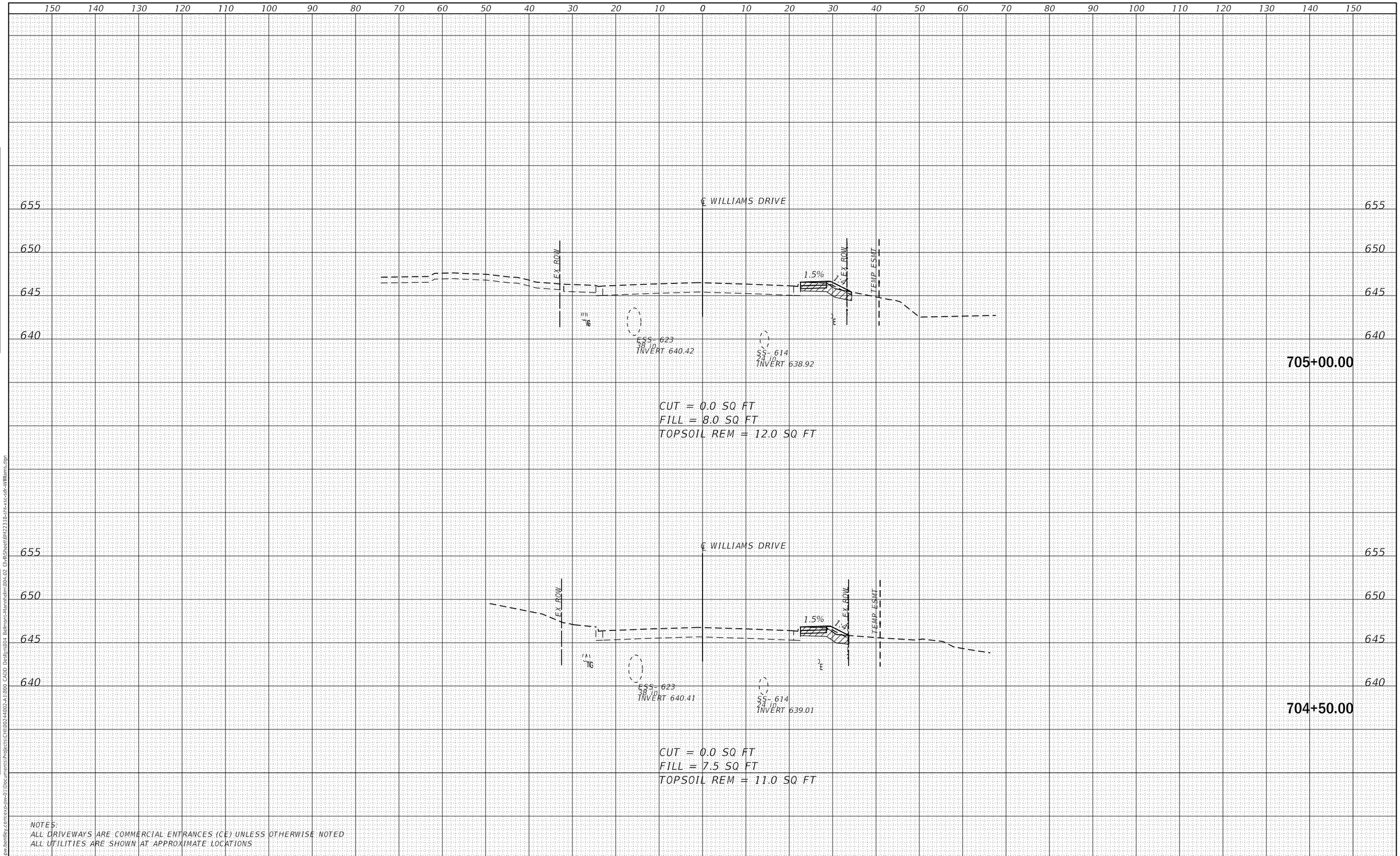
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 704+00.00 TO STA. 704+06.40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	132

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
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ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
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AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

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	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

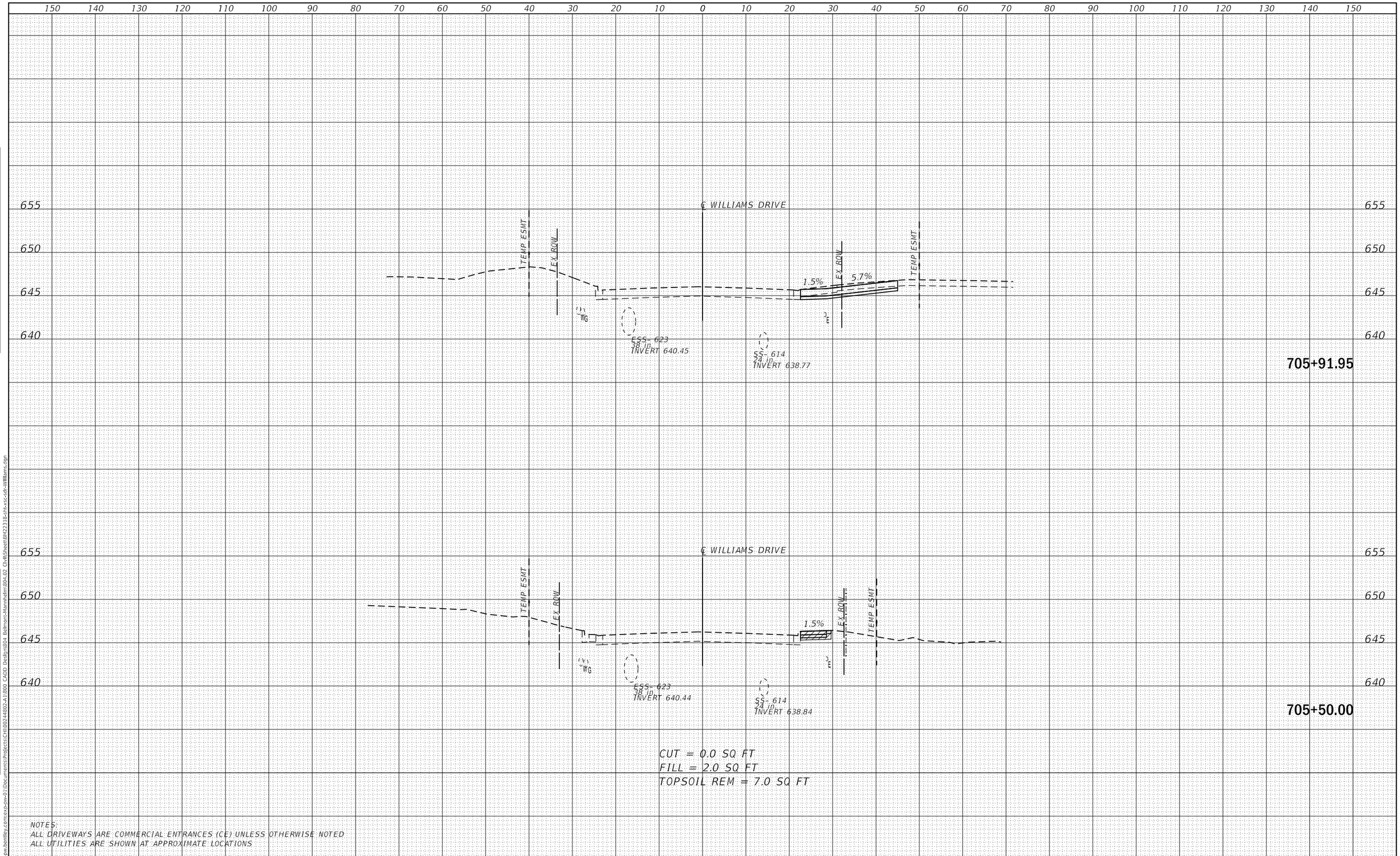
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 704+50.00 TO STA. 705+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	133

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS·EARTH & ENVIRONMENT·ENERGY
INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

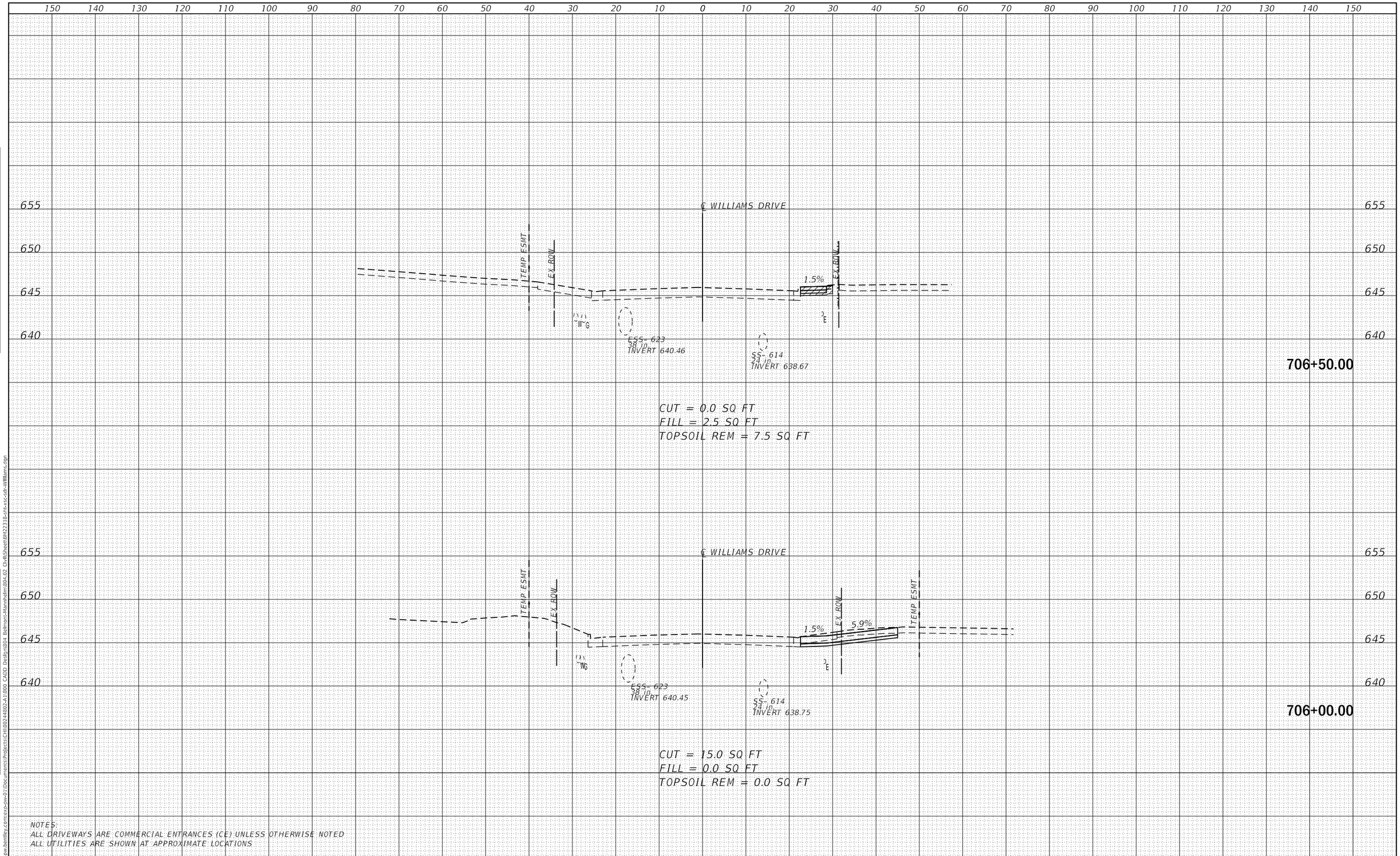
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 705+50.00 TO STA. 705+91.95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	134

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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exp U.S. Services Inc.
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 706+00.00 TO STA. 706+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	135

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK NO.		

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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 707+00.00 TO STA. 707+21.13

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	136

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
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Chicago, IL
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

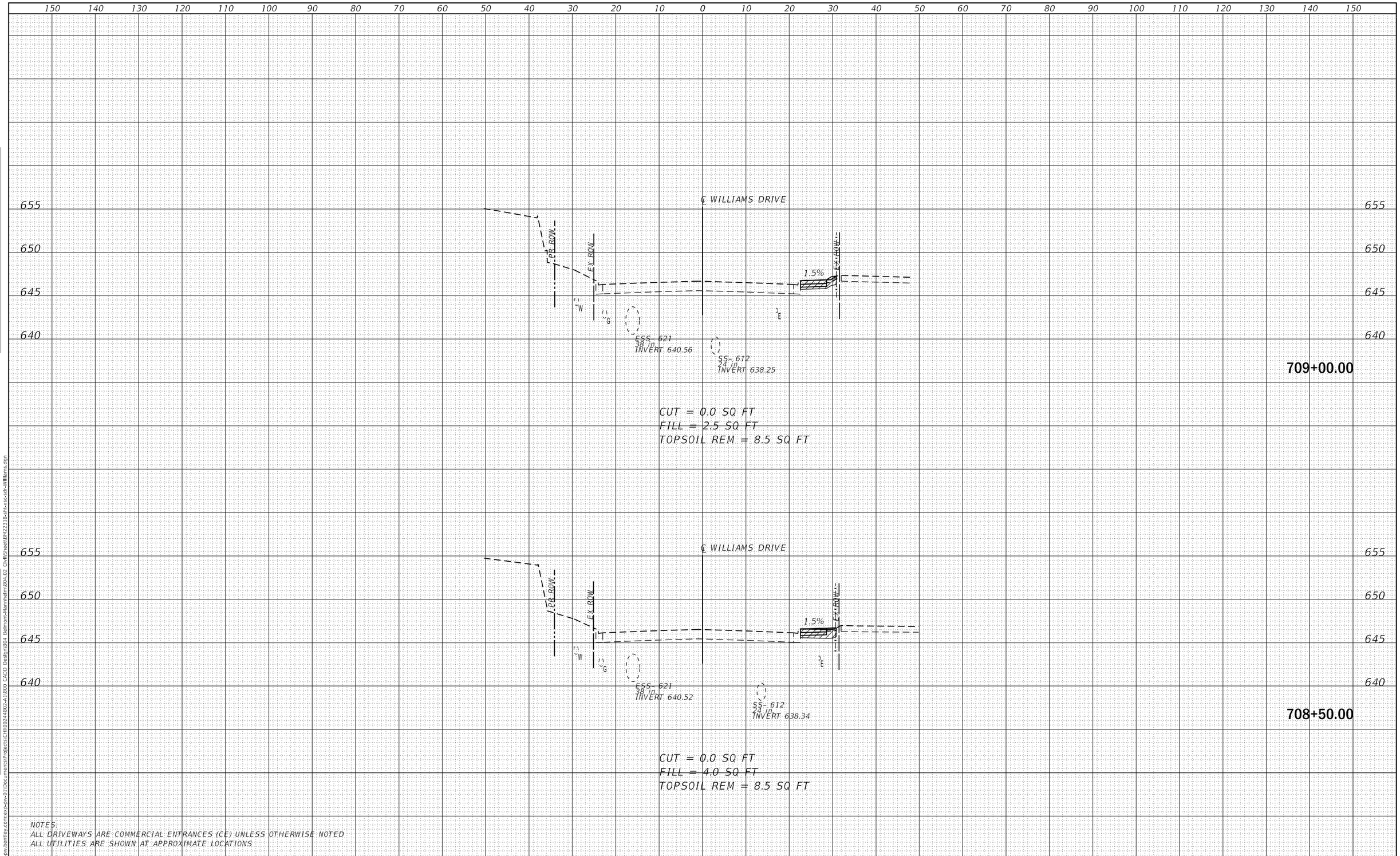
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 707+50.00 TO STA. 708+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	137

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
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NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: | SHEET OF SHEETS | STA. 708+50.00 TO STA. 709+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	138

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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exp U.S. Services Inc.
Chicago, IL
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

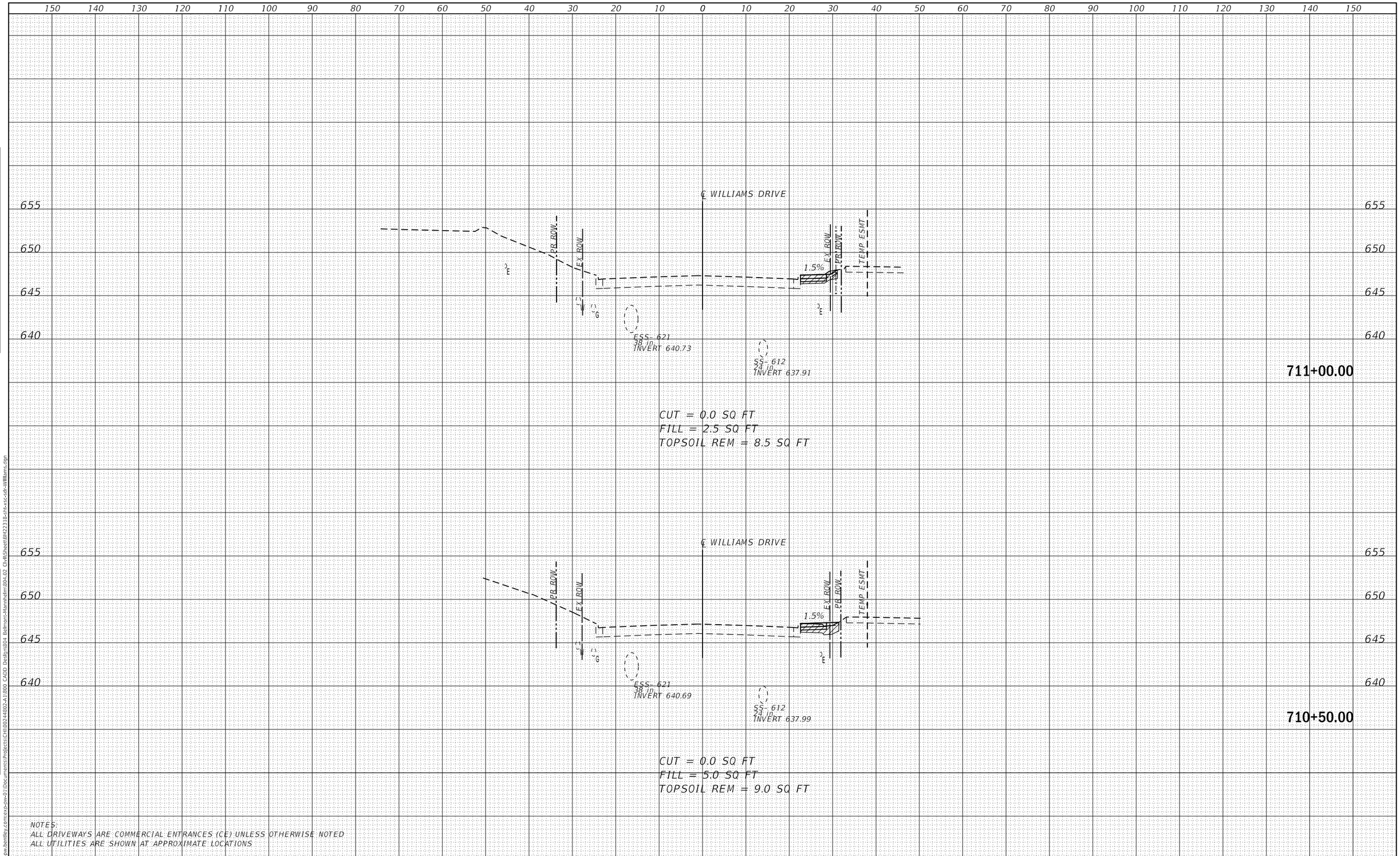
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: | SHEET OF SHEETS | STA. 709+50.00 TO STA. 710+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	139

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

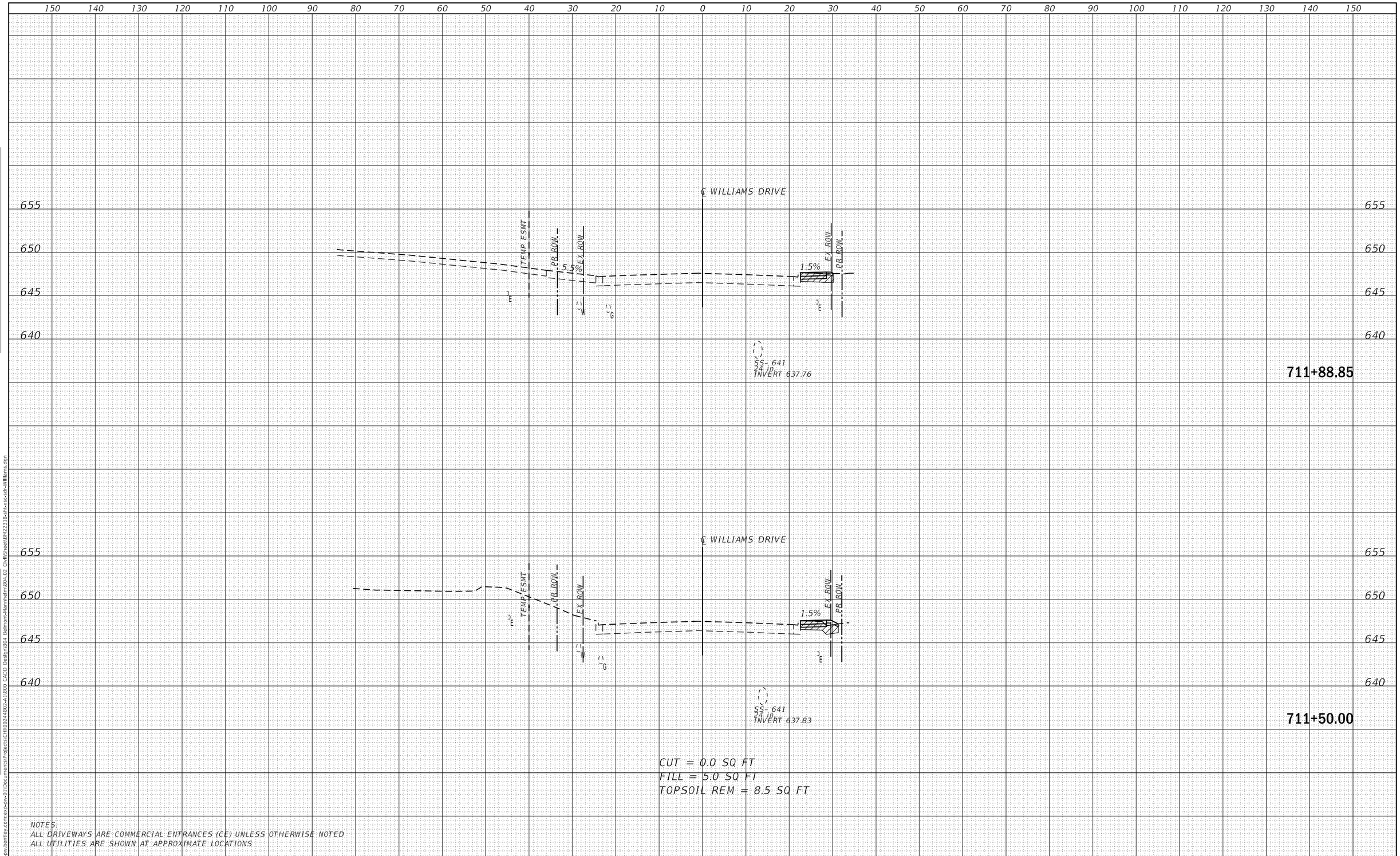
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 710+50.00 TO STA. 711+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	140

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

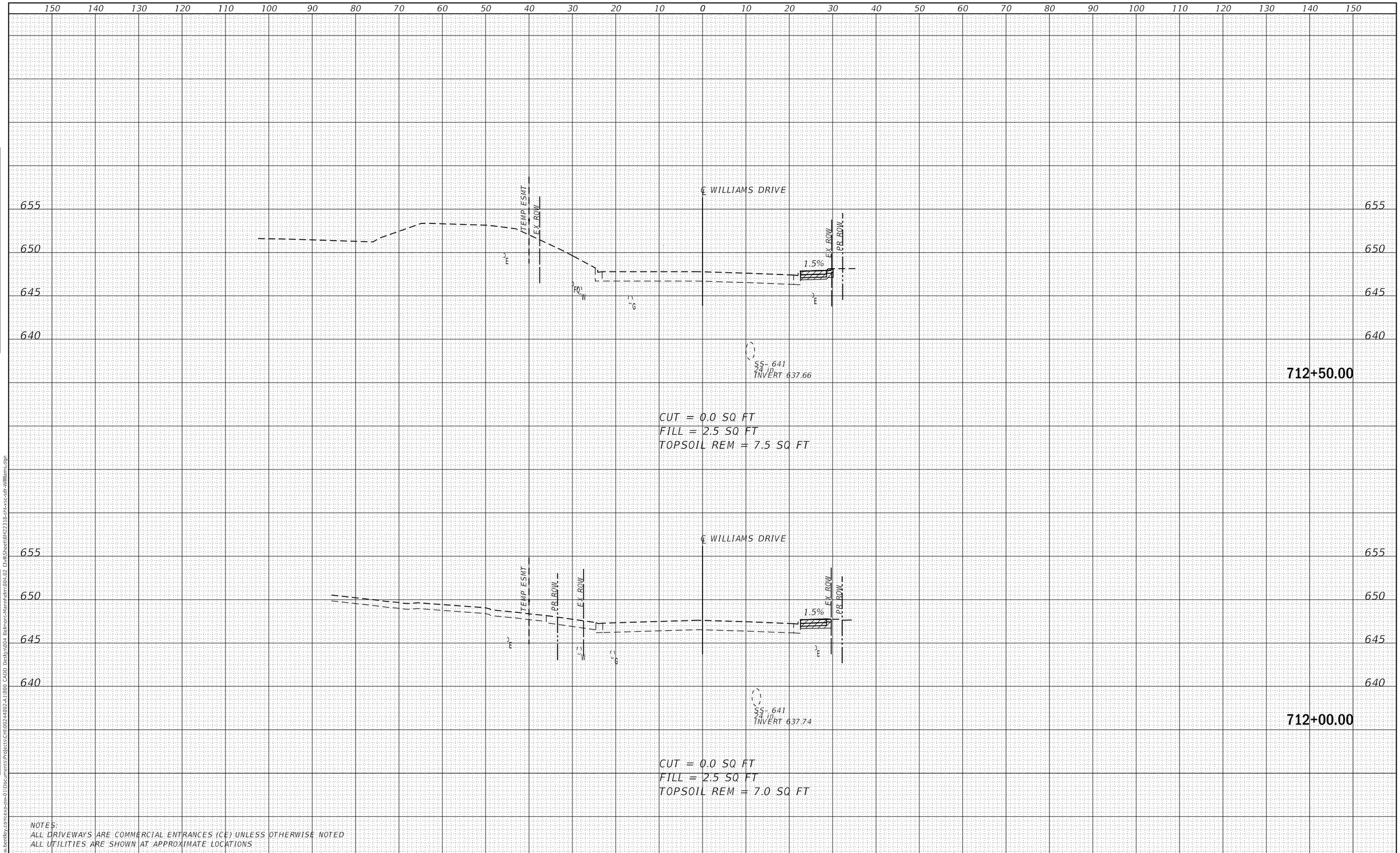
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 711+50.00 TO STA. 711+88.85

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	141

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

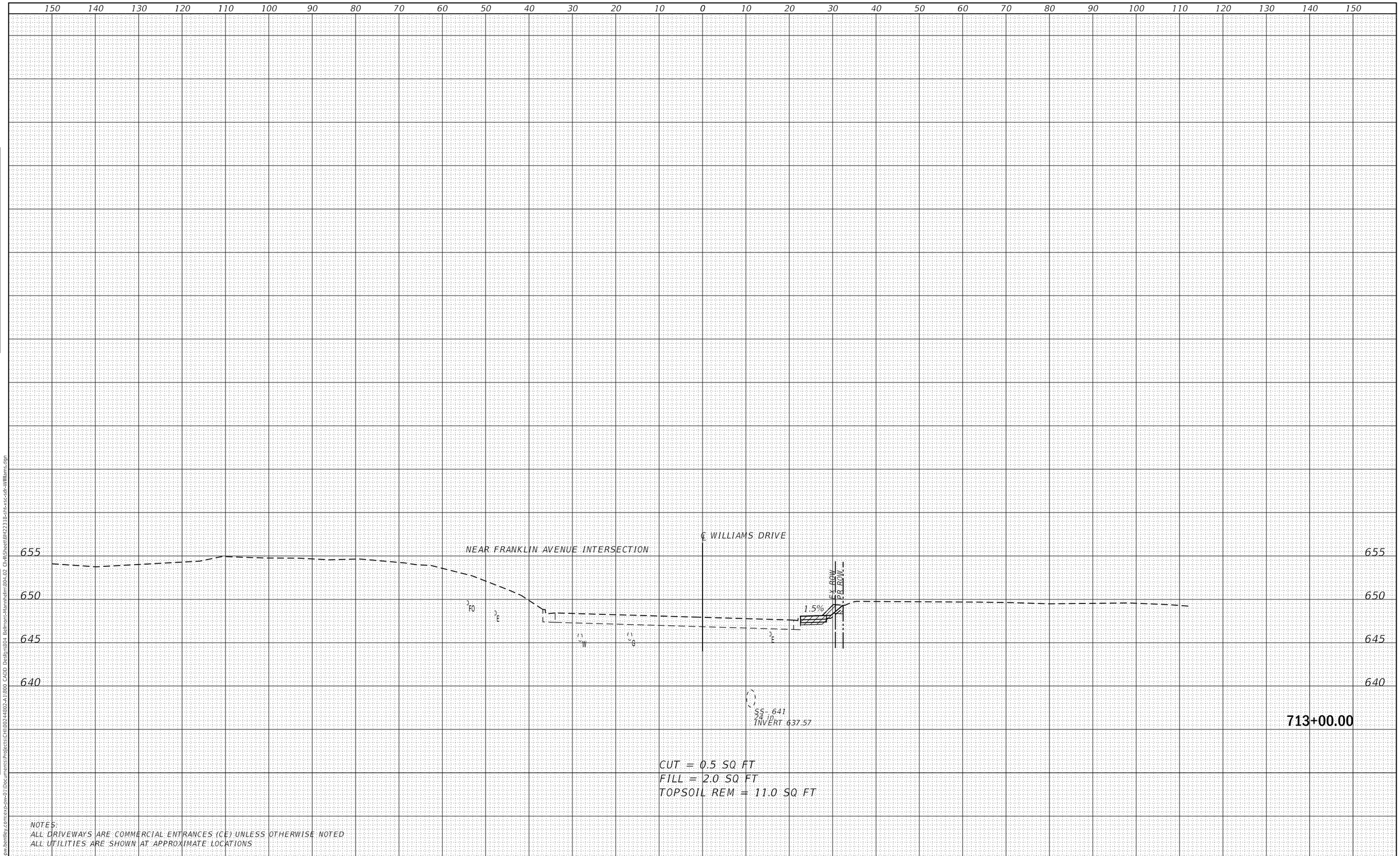
WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 712+00.00 TO STA. 712+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	142

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
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FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

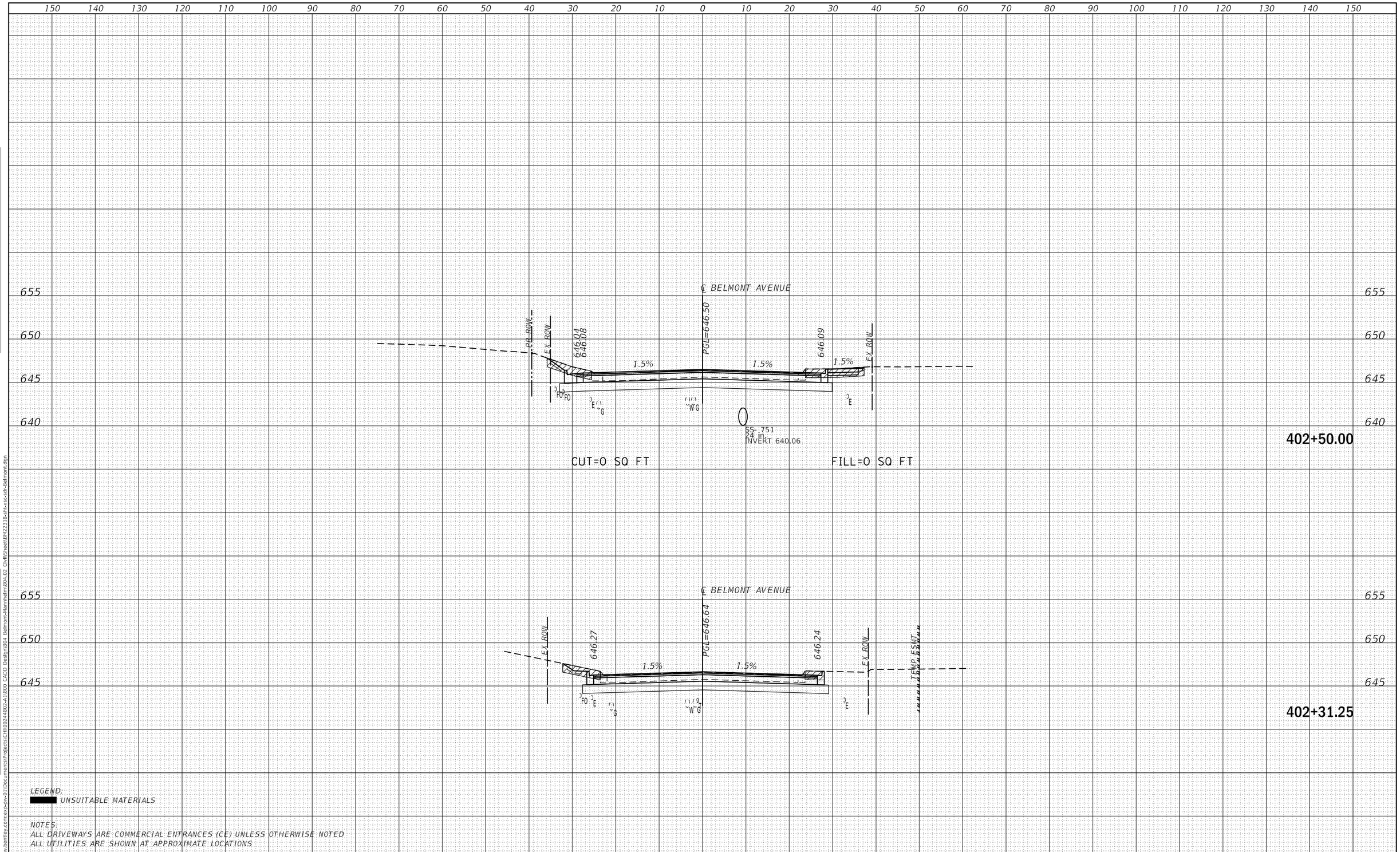
USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS DRIVE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 713+00.00 TO STA. 713+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	143
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



LEGEND:
UNSUITABLE MATERIALS

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

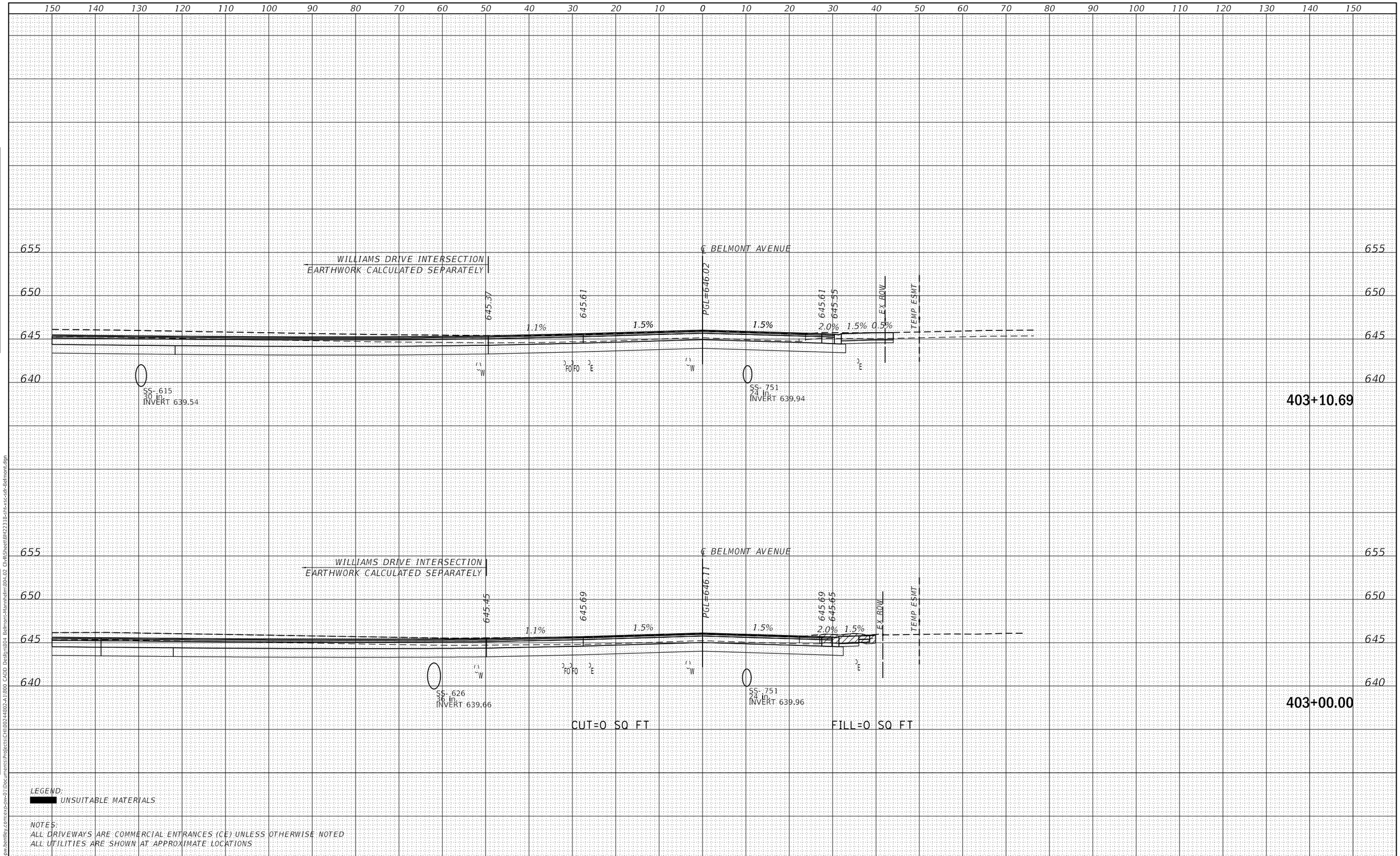
BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 402+31.25 TO STA. 402+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	144

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



LEGEND:
UNSUITABLE MATERIALS

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS CHECKED		
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

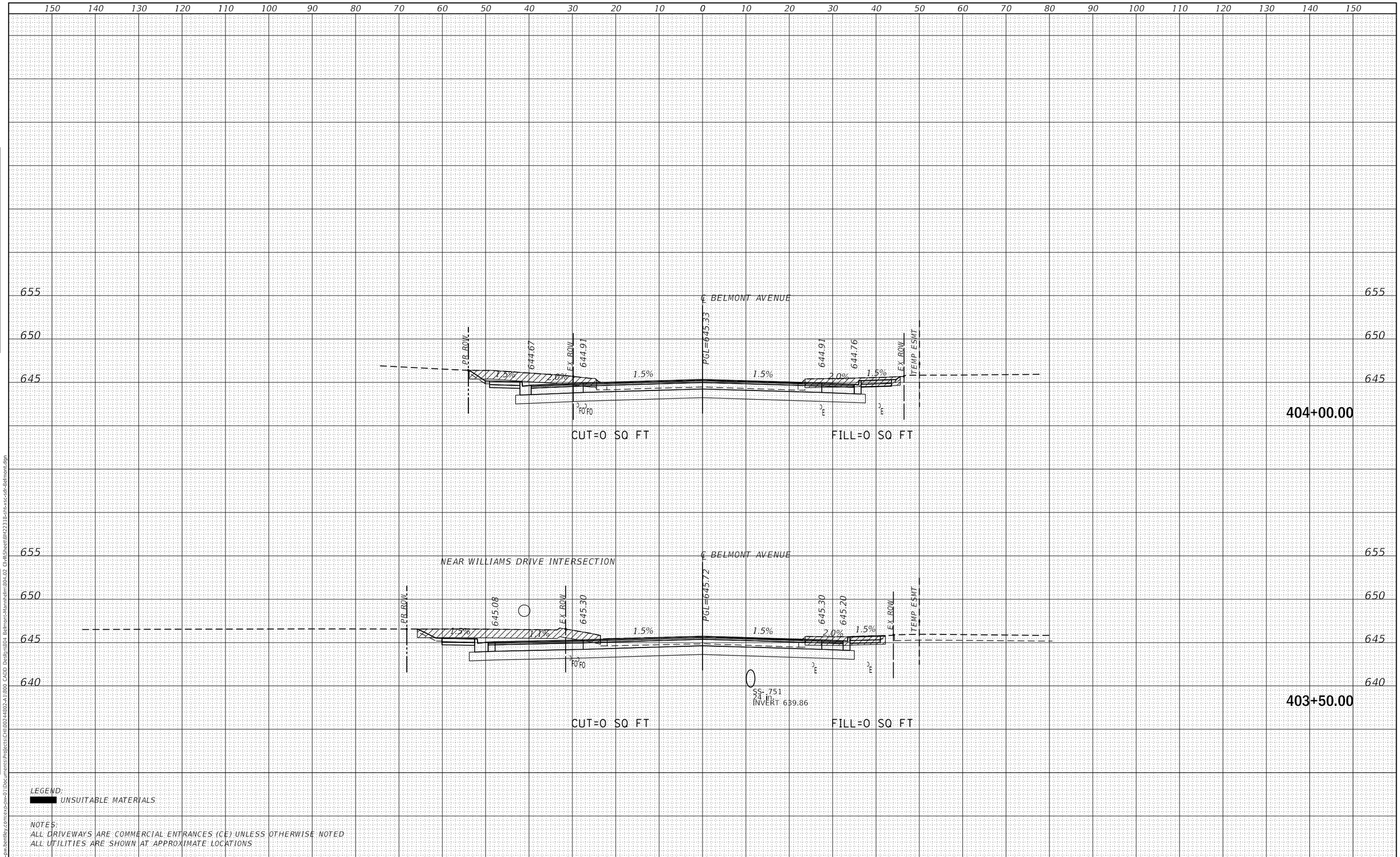
BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 403+00.00 TO STA. 403+10.69

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	145

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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NO.	AREAS CHECKED		

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exp U.S. Services Inc.
Chicago, IL
BUILDINGS•EARTH & ENVIRONMENT•ENERGY
INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

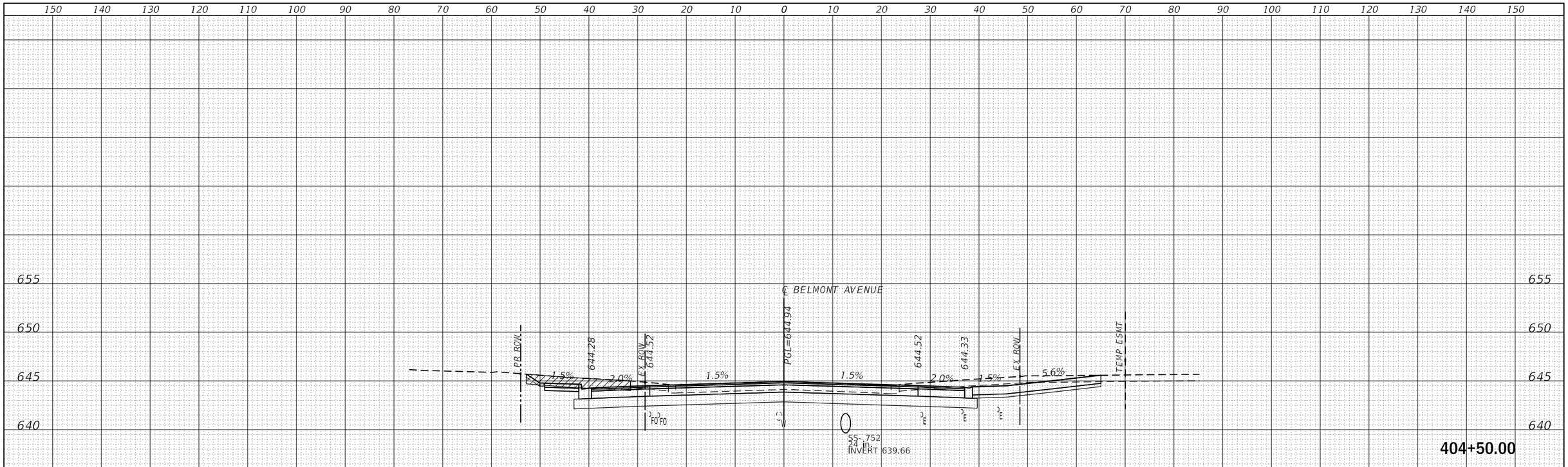
USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

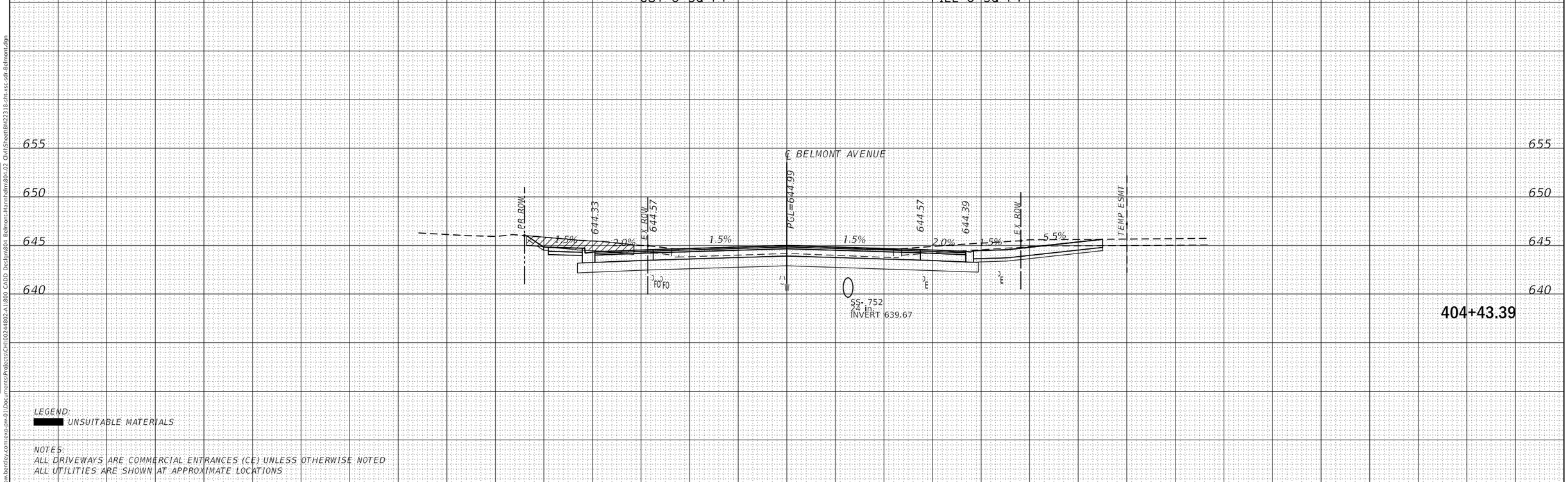
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 403+50.00 TO STA. 404+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	146
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	





LEGEND:
UNSUITABLE MATERIALS

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

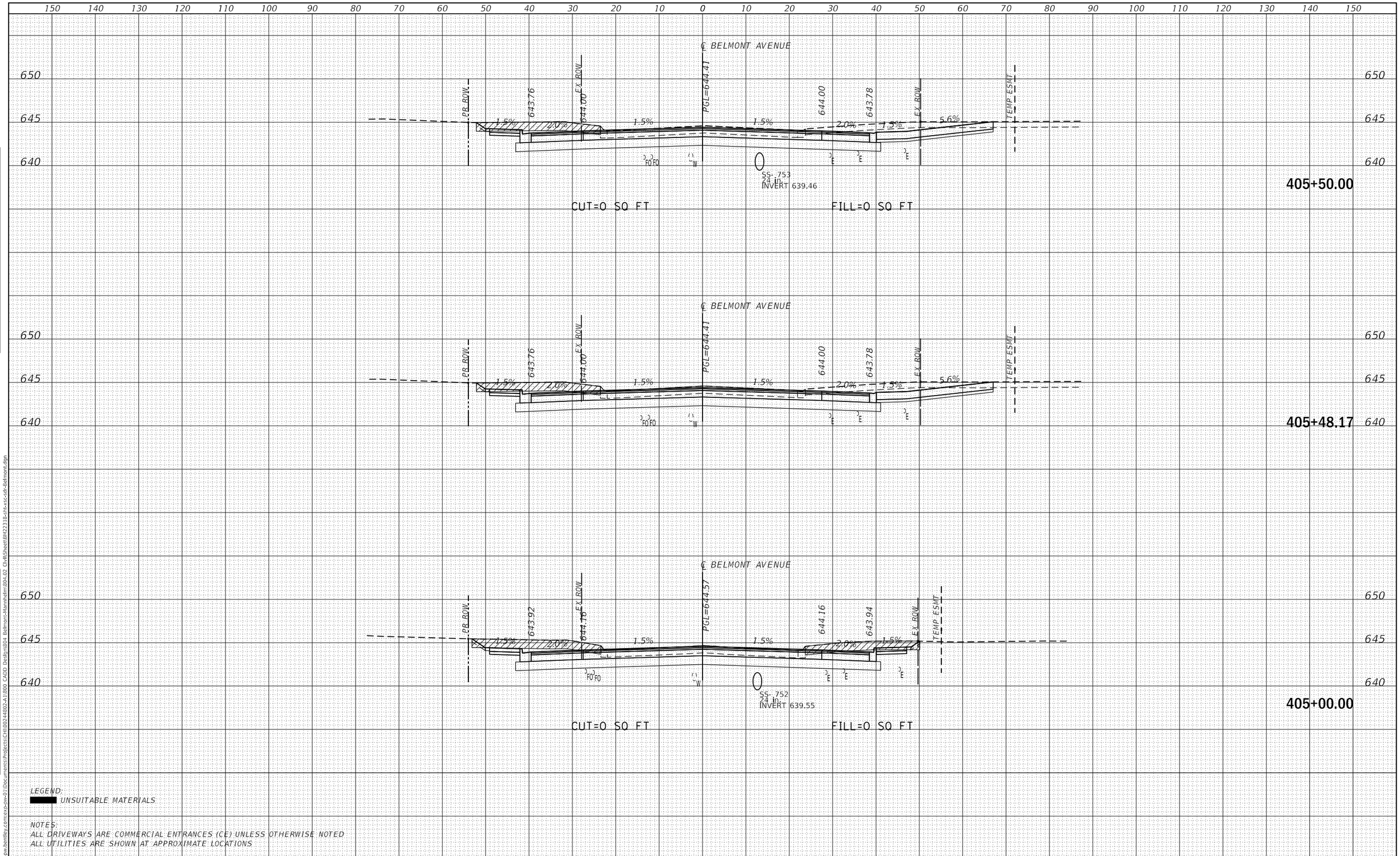
USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 404+43.39 TO STA. 404+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	147
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
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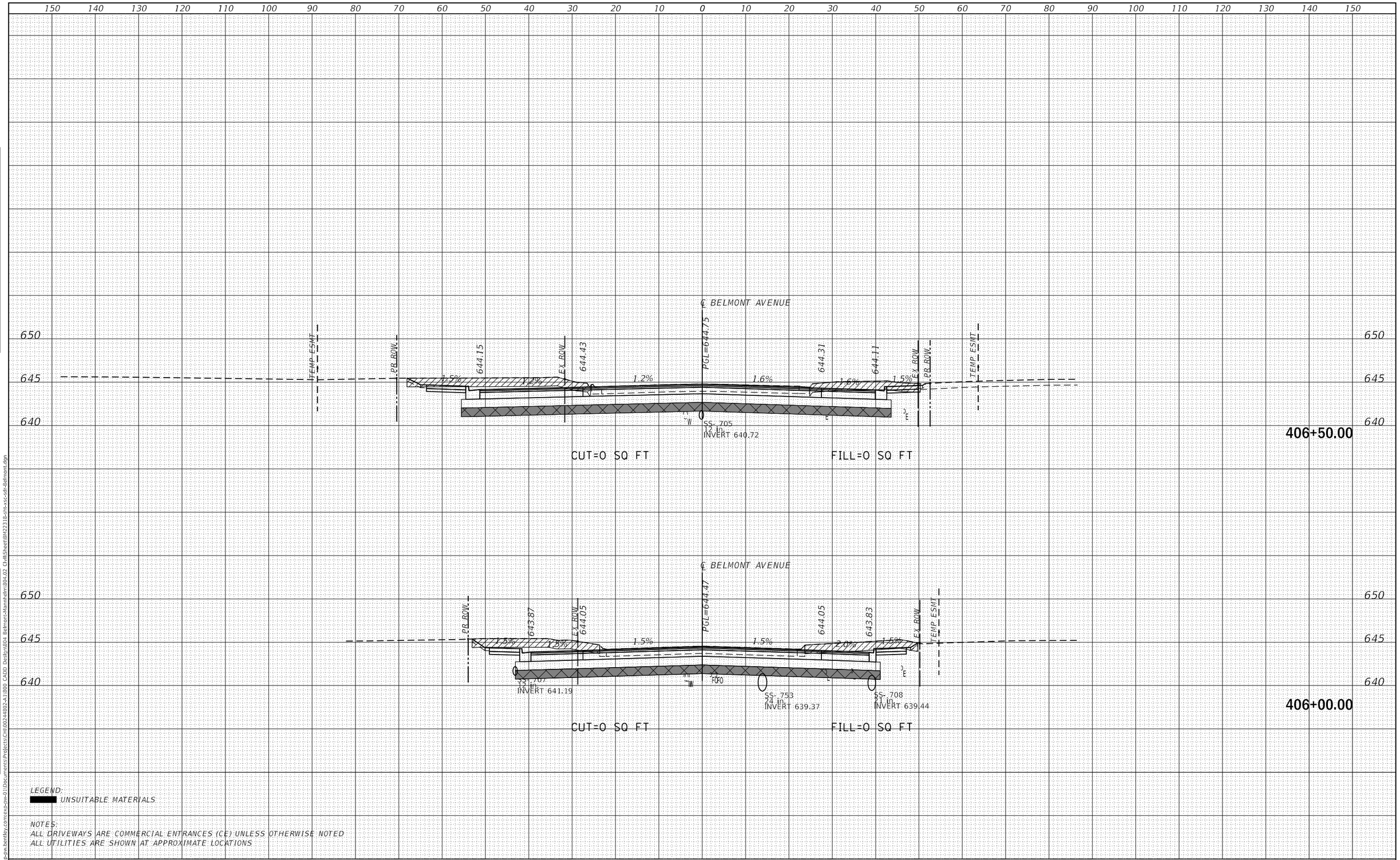
USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 405+00.00 TO STA. 405+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	148
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



LEGEND:
UNSUITABLE MATERIALS

NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
	DRAWN - AG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

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BELMONT AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 406+00.00 TO STA. 406+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3040	17-00083-02-PV	COOK	157	149

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT

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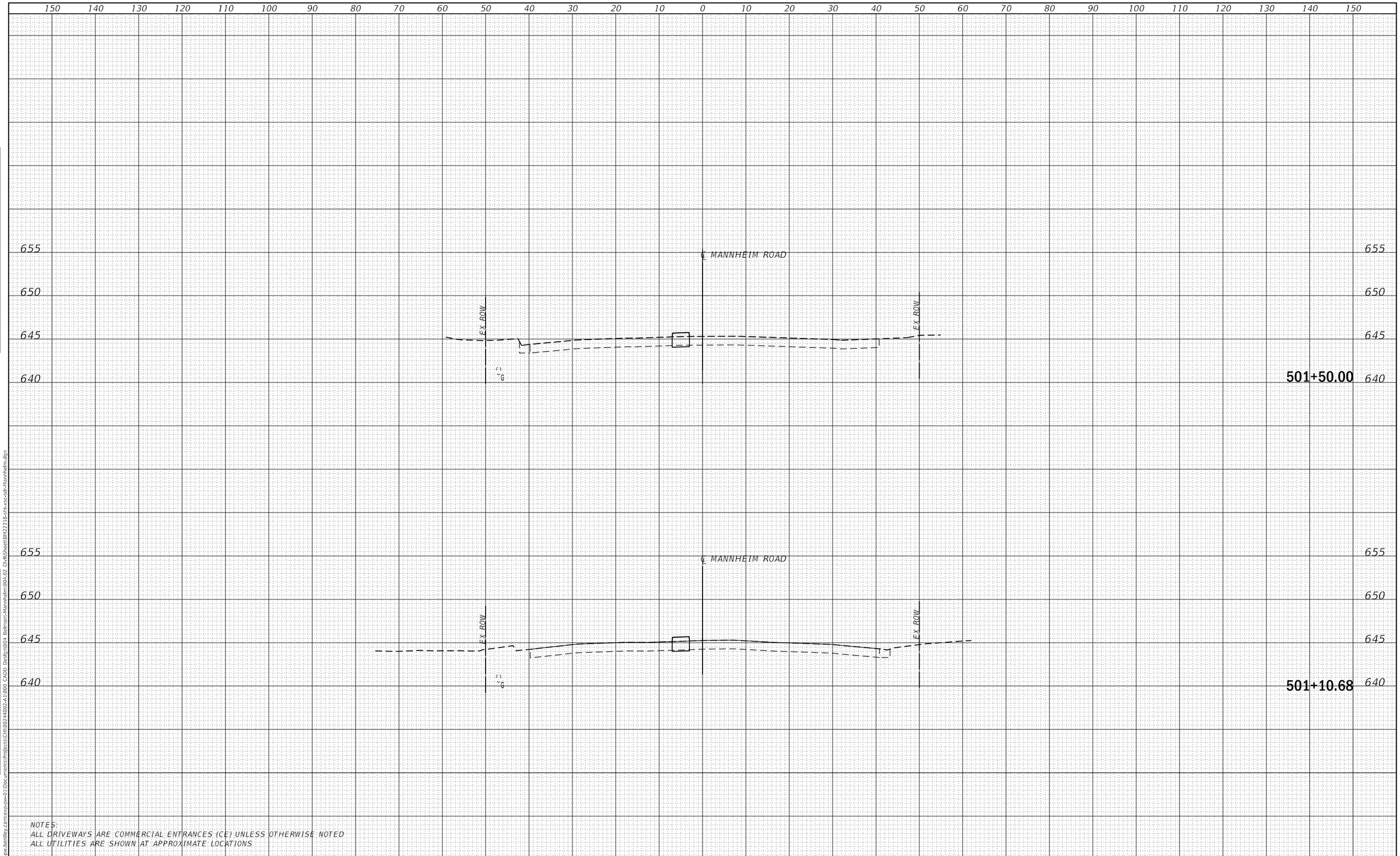

NOTES
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ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

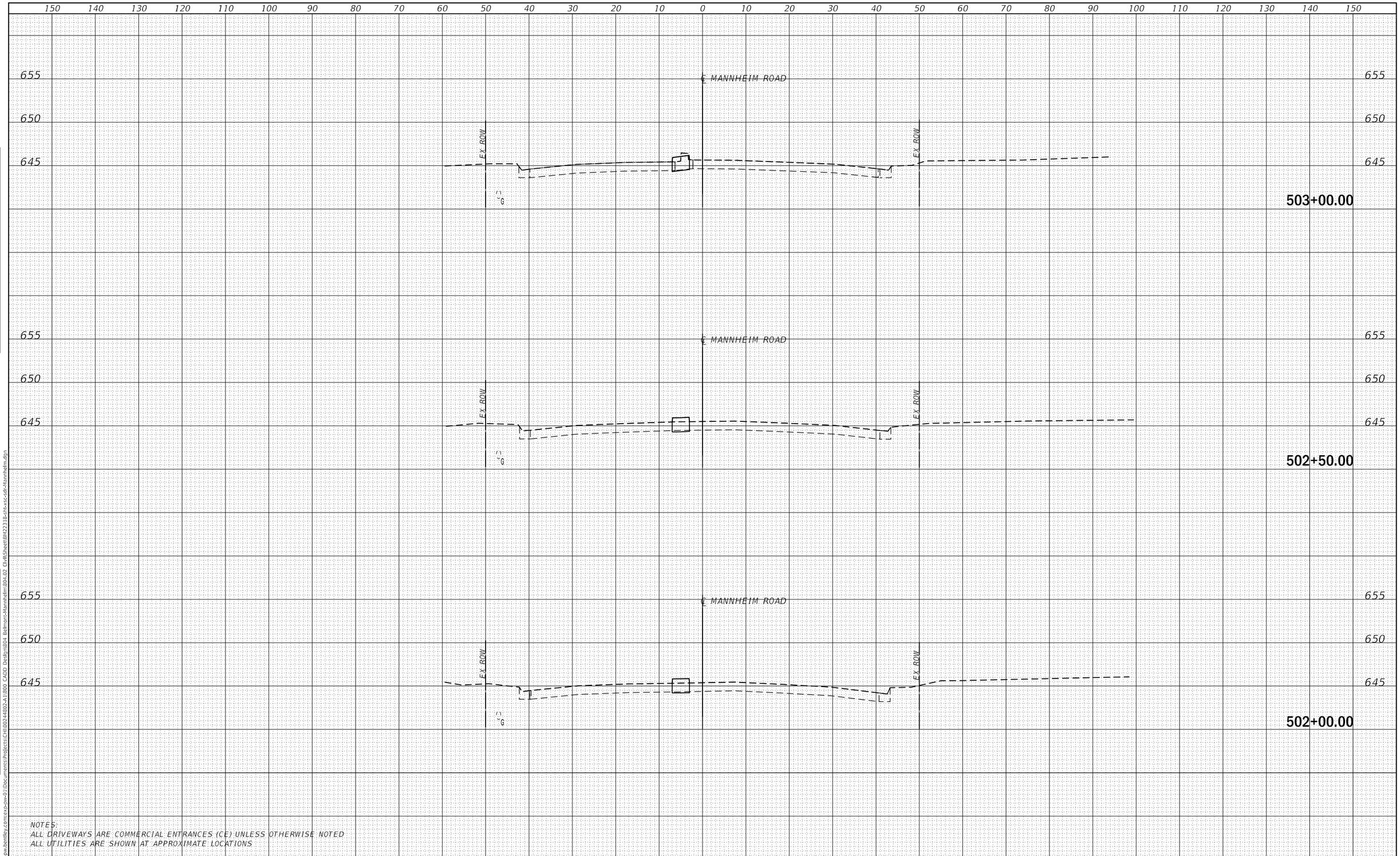
MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 501+10.68 TO STA. 501+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	150

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
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	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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	TEMPLATE		
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NO.	AREAS CHECKED		

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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
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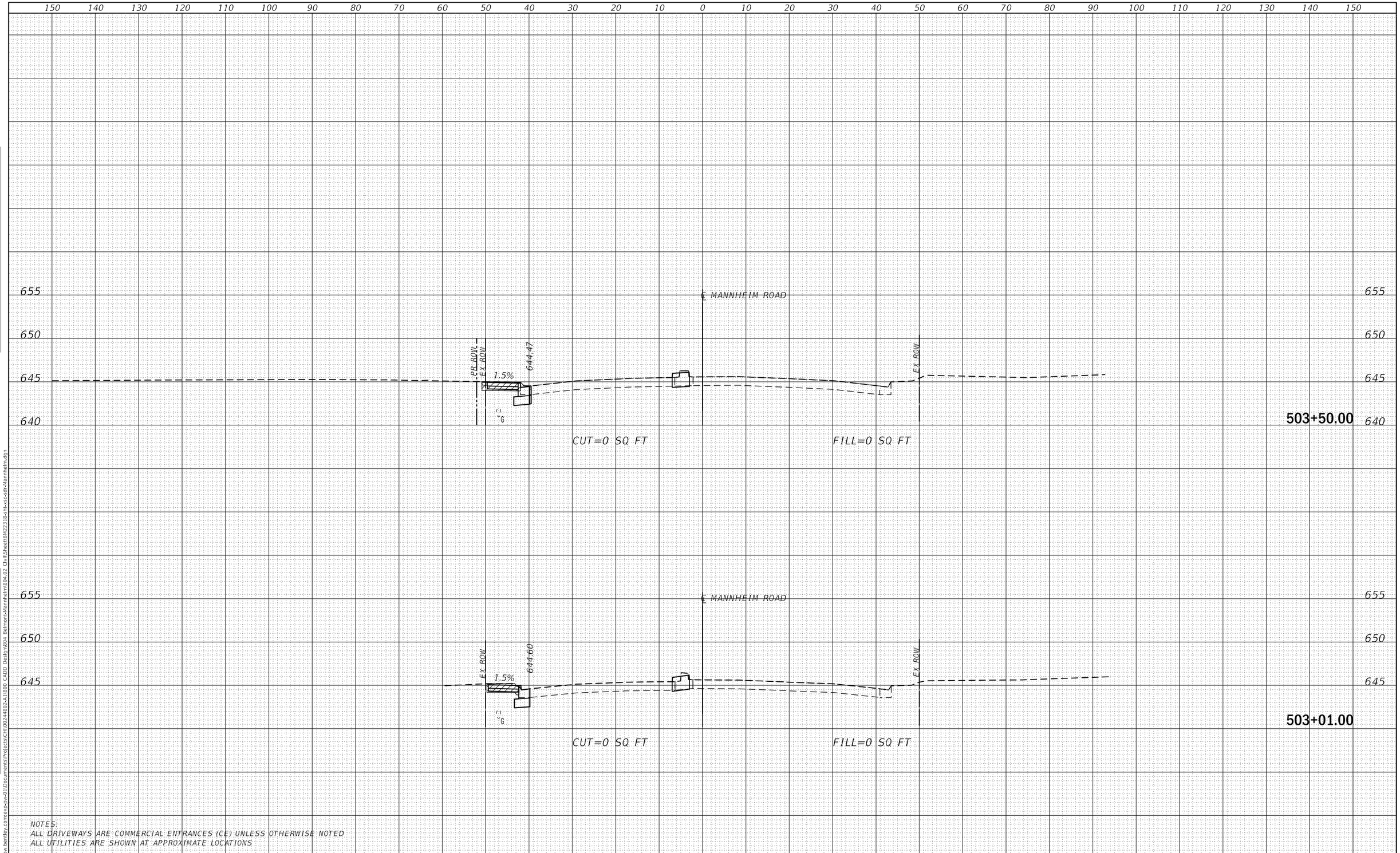
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 502+00.00 TO STA. 503+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	151
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



NOTES:
ALL DRIVEWAYS ARE COMMERCIAL ENTRANCES (CE) UNLESS OTHERWISE NOTED
ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
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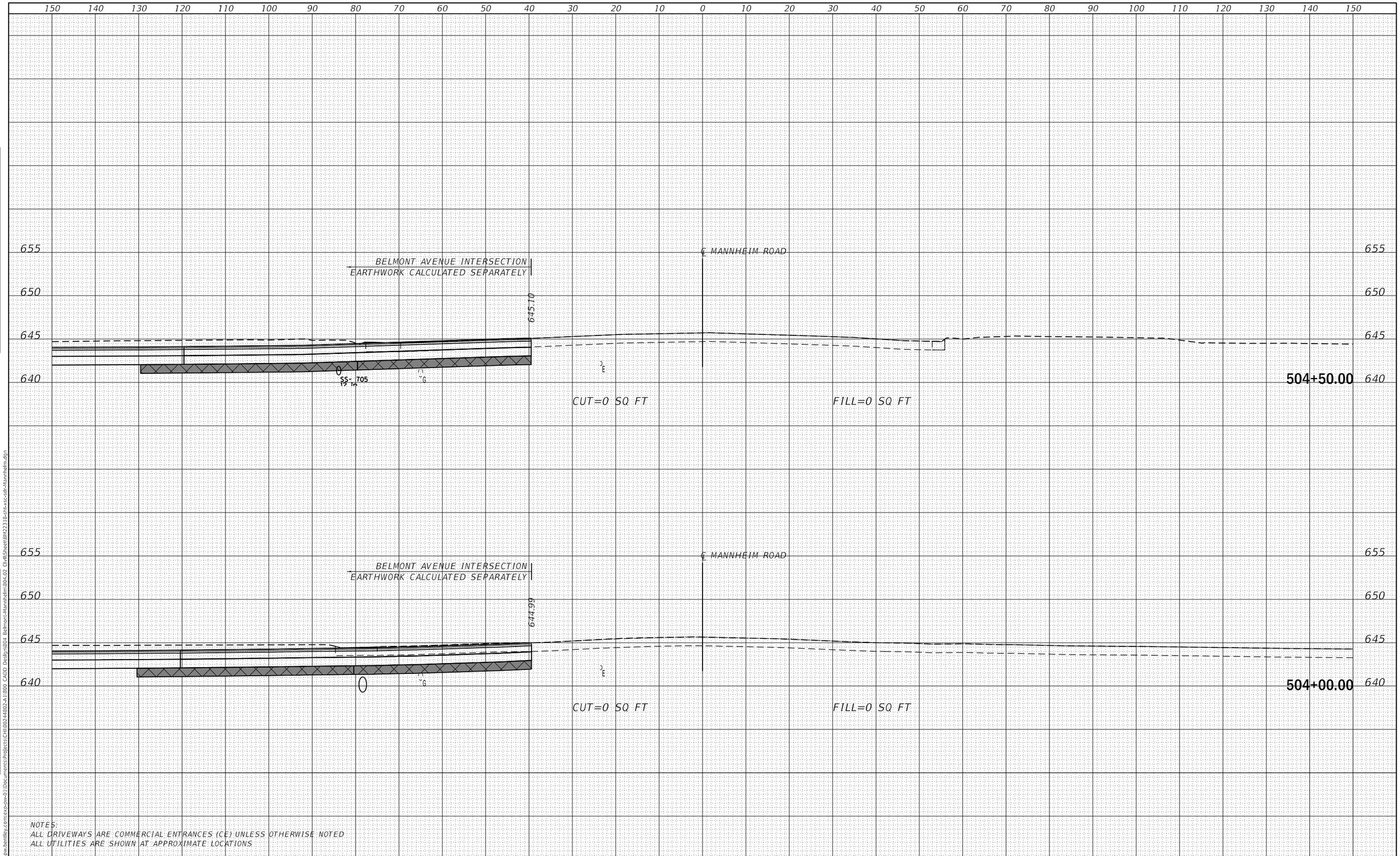
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 503+01.00 TO STA. 503+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	152
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



NOTES:
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FINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
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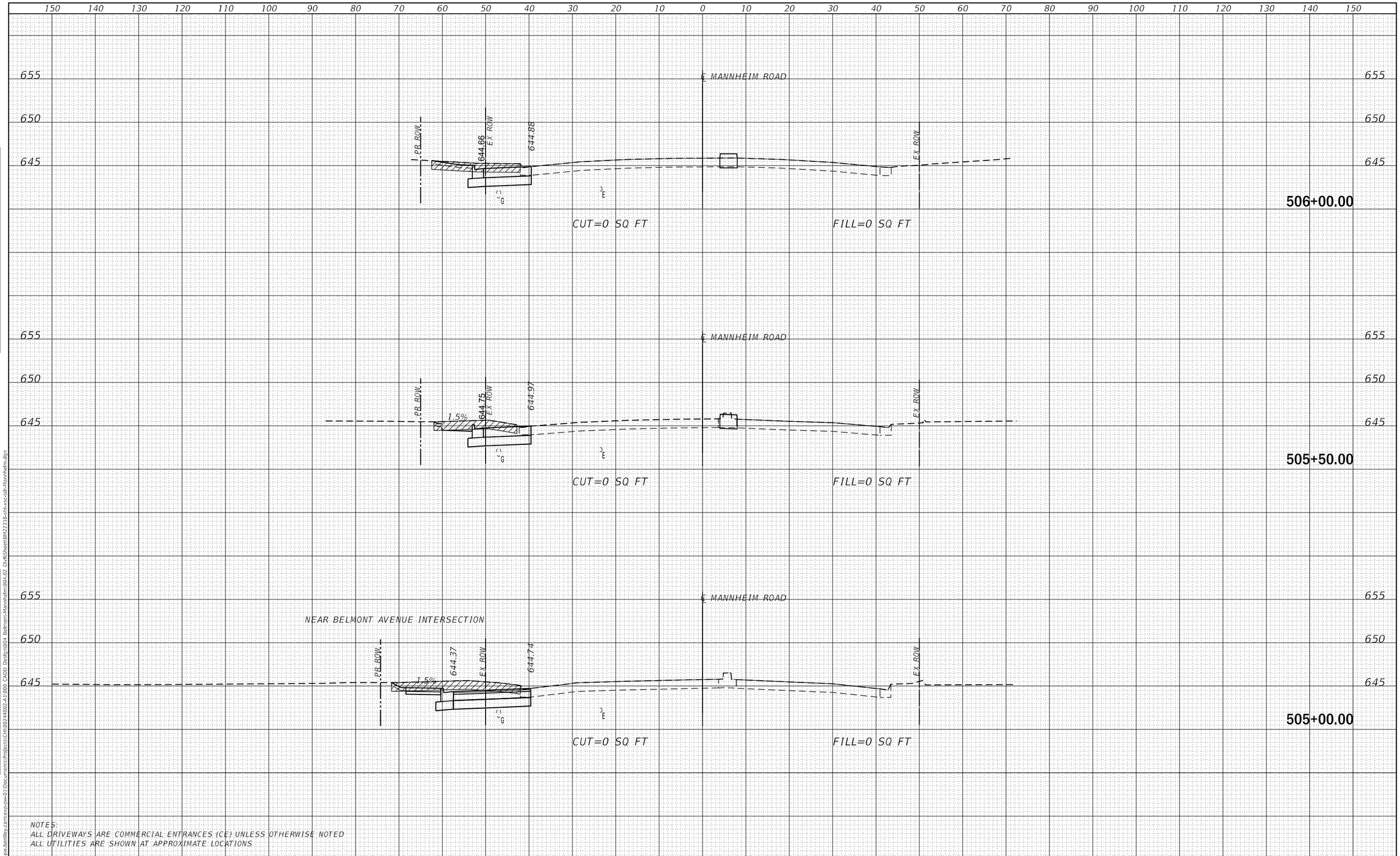
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 504+00.00 TO STA. 504+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	153
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	



NOTES:
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FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS		
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

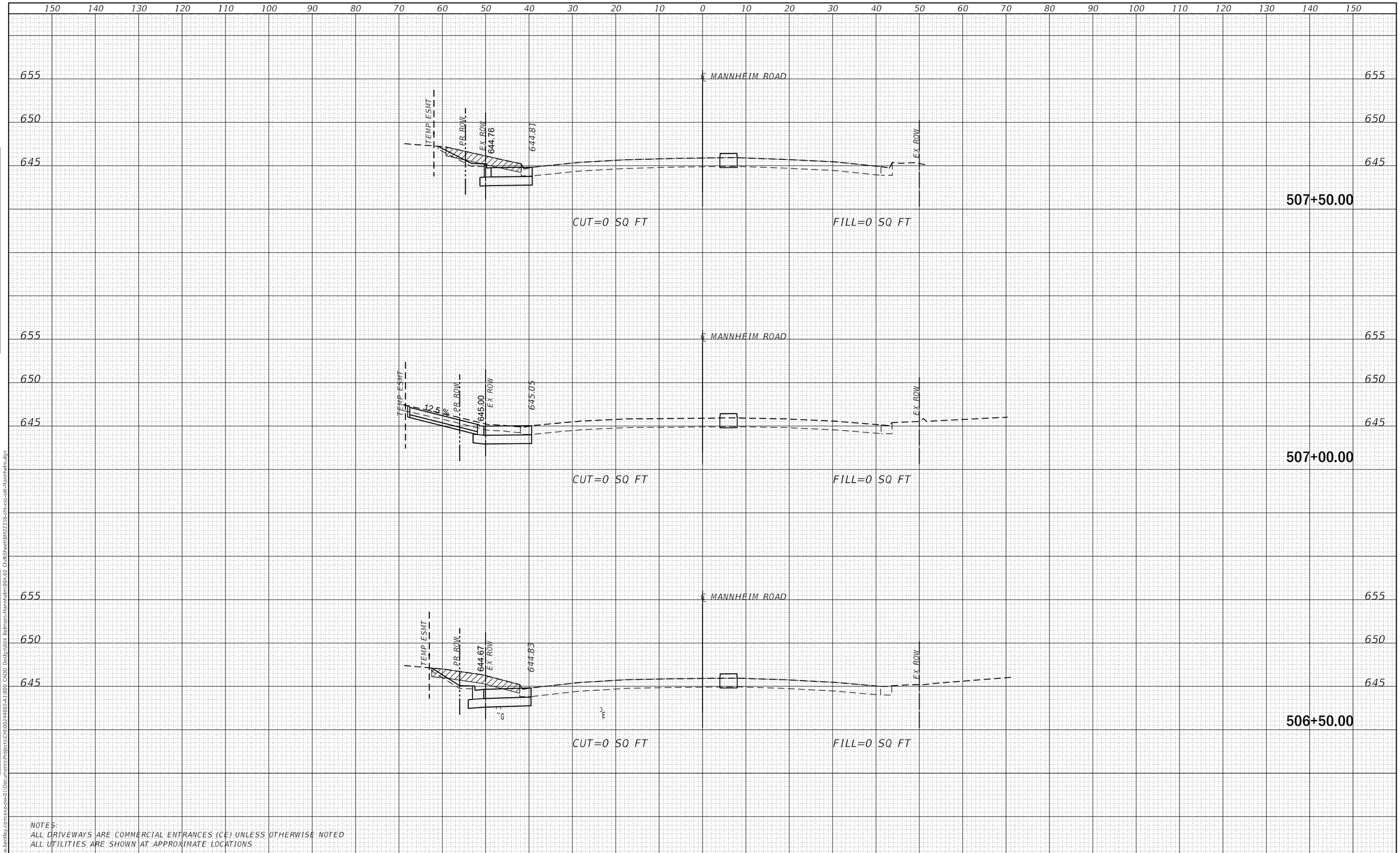
MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 505+00.00 TO STA. 506+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	154

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
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FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
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Chicago, IL
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INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY

USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

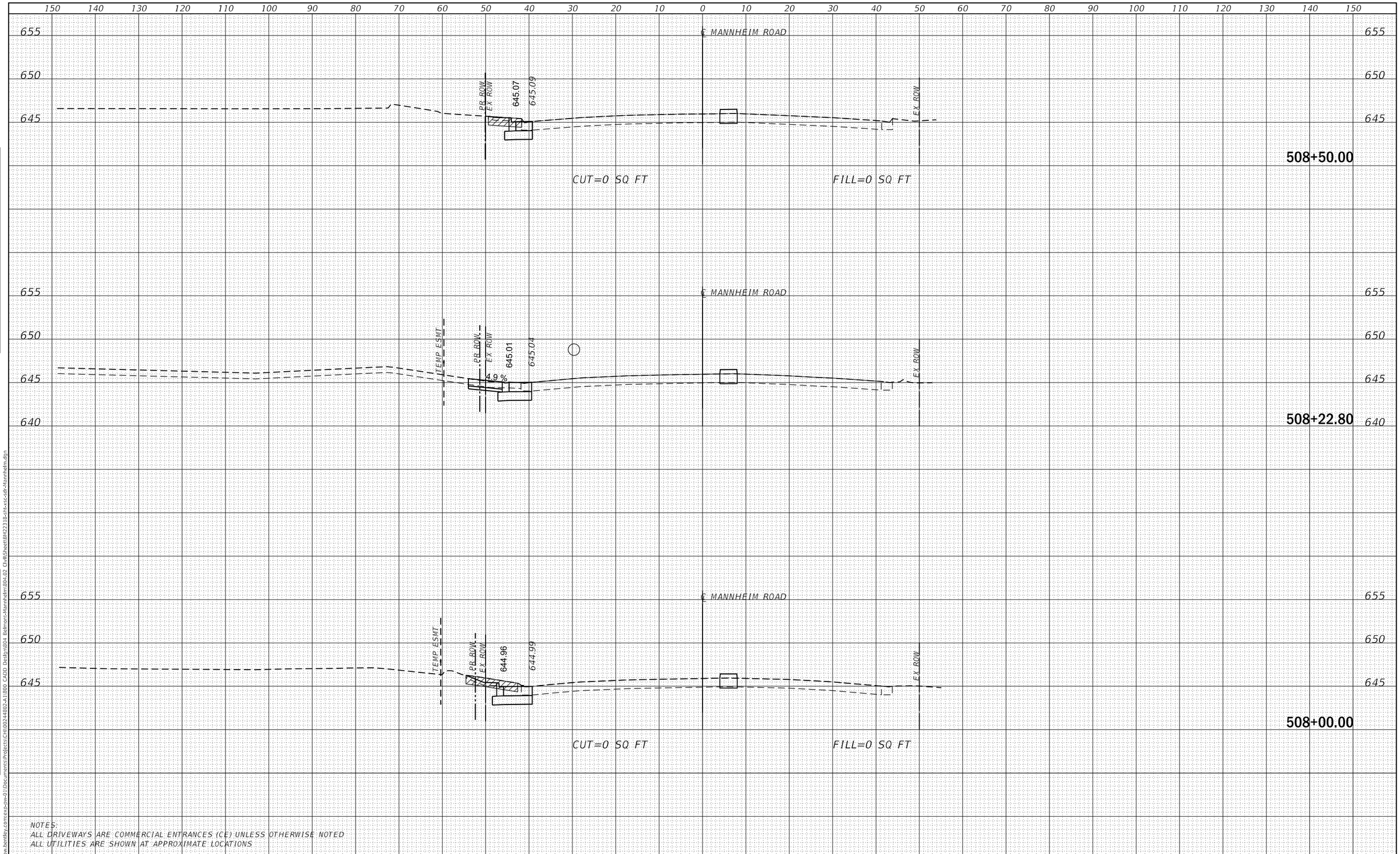
MANNHEIM ROAD CROSS-SECTIONS

SCALE: | SHEET OF SHEETS | STA. 506+50.00 TO STA. 507+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	155

CONTRACT NO. 61K16

ILLINOIS | FED. AID PROJECT



NOTES
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FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK NO.		

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exp U.S. Services Inc.
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

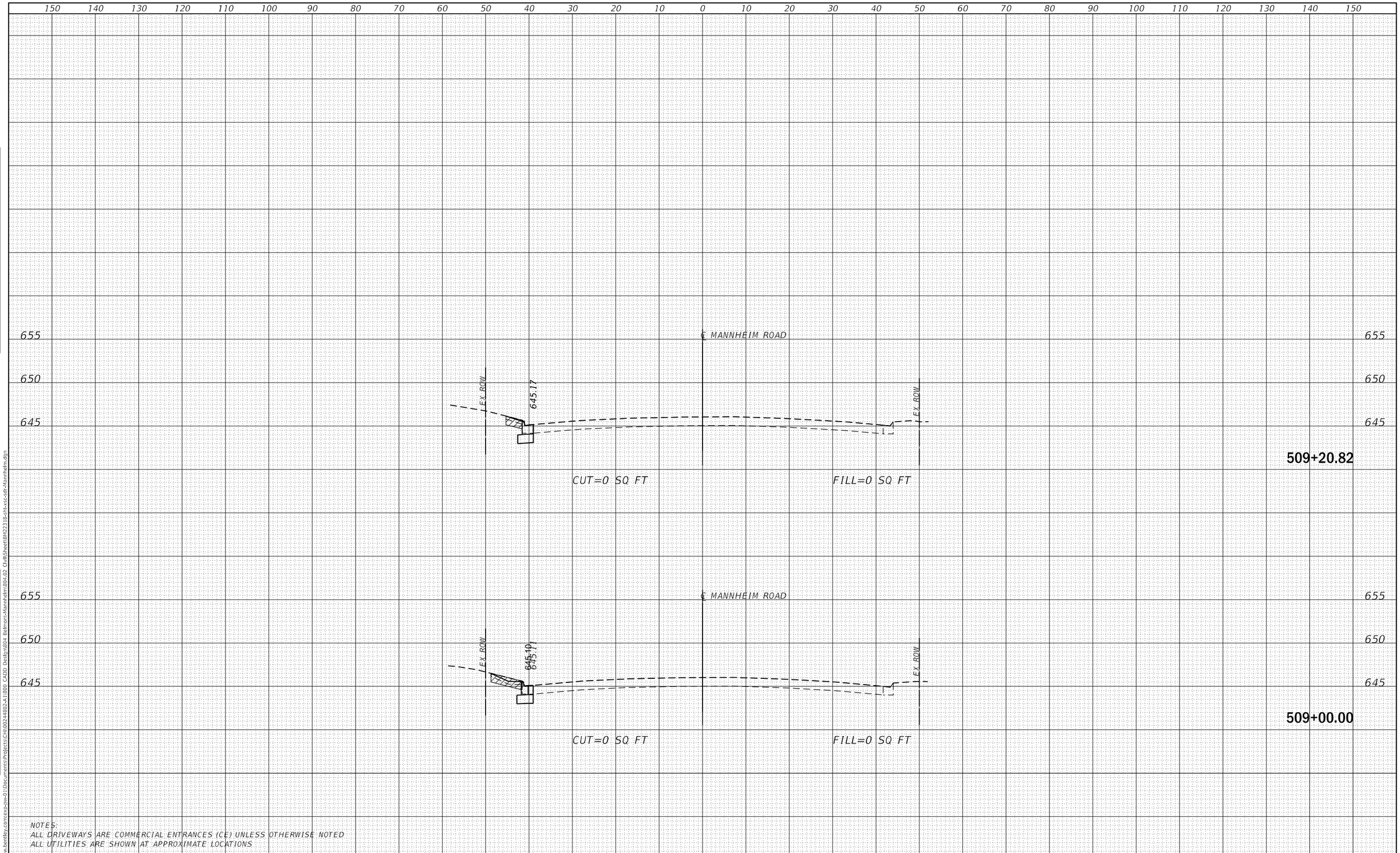
MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 508+00.00 TO STA. 508+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	156

CONTRACT NO. 61K16

ILLINOIS FED. AID PROJECT



NOTES:
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FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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USER NAME = GARCIAAZ	DESIGNED - AG	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/10/2025	DATE - 11/10/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANNHEIM ROAD CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 509+00.00 TO STA. 509+20.82

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1373	17-00083-02-PV	COOK	157	157
		CONTRACT NO. 61K16		
		ILLINOIS	FED. AID PROJECT	