

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

F.A.U. RTE. 2714 2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 1
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 2714 (SHAWMUT AVENUE)
IHB RAILROAD TO END & KEMMAN AVENUE
FROM SHAWMUT AVENUE TO SOUTHVIEW AVENUE
AND
SHAWMUT AVENUE FROM KEMMAN AVENUE TO VILLAGE LIMIT
AND
FAU ROUTE 2704 (BRAINARD AVENUE)
47TH STREET TO NORTHERN VILLAGE LIMIT
ROADWAY RESURFACING AND SIDEWALK INSTALLATION

SECTION: 20-00096-00-RS
PROJECT: C16E(520)
VILLAGE OF LA GRANGE
COUNTY: COOK
C-91-141-22
LOCATION MAP



LOCATION OF SECTION INDICATED THIS: - [Symbol] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Richard Colby
Richard Colby, PE
VILLAGE OF LA GRANGE, VILLAGE ENGINEER

PASSED Jan 3, 2024
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW January 3, 2024
[Signature]
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

TRAFFIC DATA

SHAWMUT AVENUE
POSTED SPEED LIMIT = 30 MPH
DESIGN SPEED LIMIT = 30 MPH
ADT = 3,750 (2022)

BRAINARD AVENUE
POSTED SPEED LIMIT = 30 MPH
DESIGN SPEED LIMIT = 30 MPH
ADT = 5,350 (2022)

KEMMAN AVENUE
POSTED SPEED LIMIT = 30 MPH
DESIGN SPEED LIMIT = 30 MPH
ADT = 3,750 (2022)

FUNCTIONAL CLASSIFICATION

BRAINARD AVENUE = MAJOR COLLECTOR
SHAWMUT AVENUE = MAJOR COLLECTOR
KEMMAN AVENUE = MAJOR COLLECTOR

END IMPROVEMENTS
BRAINARD AVENUE
STA 63+40

END OMISSION
BRAINARD AVENUE
STA 43+40

BEGIN OMISSION
BRAINARD AVENUE
STA 42+88

BEGIN IMPROVEMENTS
BRAINARD AVENUE
STA 10+71

END IMPROVEMENTS
KEMMAN AVENUE
STA 22+93

BEGIN IMPROVEMENTS
KEMMAN AVENUE
STA 20+00

END IMPROVEMENTS
SHAWMUT AVENUE
STA 45+19

BEGIN IMPROVEMENTS
SHAWMUT AVENUE
STA 31+34



SECTION 4, T38N, R12E, OF THE THIRD PRINCIPAL MERIDIAN
LYONS TOWNSHIP

BRAINARD AVE	GROSS LENGTH	NET LENGTH
SHAWMUT AVE	5,269 FT	5,145 FT
TOTAL	1,385 FT	1,385 FT
	6,654 FT (1.26 MILES)	6,530 FT (1.24 MILES)

BAXTER & WOODMAN
Consulting Engineers



PROJECT ENGINEER
"LICENSE EXPIRES 11-30-2025"

FEDERAL AID PROGRAM ENGINEER; CARMEN E RAMOS, P.E.
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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. DESIGN STAGE REQUEST
DIG. No. X231801765/X231801778



CONTACT JULIE AT 811 OR 800-892-0123
WITH THE FOLLOWING:
COUNTY = COOK
CITY-TOWNSHIP = LA GRANGE - LYONS
SEC. & 1/4 SEC. NO. =
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61K11

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
602001-02	CATCH BASIN TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
604001-05	FRAME AND LIDS TYPE 1
604051-04	FRAME AND GRATE TYPE 11
604056-04	FRAME AND GRATE TYPE 11V
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

- 1) ADA CONSTRUCTION INSPECTION FORM (D1 PD0039) MUST BE FILLED OUT AND SUBMIT TO DOT.D1.ADA@ILLINOIS.GOV AS PART OF THE CONSTRUCTION CLOSEOUT ACTIVITIES.
- 2) COORDINATION SHALL CONTINUE WITH INDIANA HARBOR BELT (IHB) RAILROAD COMPANY AND BNSF RAILWAY IN PHASE 3.

DISTRICT 1 DETAILS

BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥15' (4.5m)
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-07	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

INDEX OF SHEETS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS AND INDEX OF SHEETS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	2
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JANUARY 1, 2024", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2009 REVISION 3", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS, 2021" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, 8TH EDITION 2020".
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE VILLAGE AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY TO VERIFY THAT GRADE CONFLICTS WILL NOT OCCUR WITH ANY PROPOSED UTILITIES PRIOR TO CONSTRUCTION AND ORDERING ANY MATERIALS. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR. THE COST OF THIS EXPLORATION SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
4. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.
5. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING TEMPORARY ACCESS.
6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
7. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 6-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES DRIVEWAYS. TRANSVERSE EXPANSION JOINTS ¾" SHALL BE PLACED EVERY 50 FEET OR AS DETERMINED BY THE ENGINEER. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED EVERY 5-FEET. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH.
8. A ½-INCH THICK EXPANSION JOINT SHALL BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY APRON AND CURB, AND AT THE JUNCTION OF THE DRIVEWAY APRON AND THE SIDEWALK. THIS WORK WILL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT.
9. ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS SI CONCRETE AND ALLOWED TO CURE FOR 72 HOURS PRIOR TO PLACEMENT OF SURFACE COURSE. CLASS PP CONCRETE SHALL BE USED IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT, WHETHER PAID FOR SEPARATELY OR INCLUDED IN OTHER CONTRACT WORK.
10. THE DAYS PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
11. IN AREAS WHERE THE EXISTING DRIVEWAY, SIDEWALK, OR CURB AND GUTTER IS TO BE REMOVED AND REPLACED, THE REMOVAL AND DISPOSAL OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED DRIVEWAY, SIDEWALK, OR CURB AND GUTTER SUBGRADE ELEVATION SHALL BE INCLUDED IN THE APPROPRIATE REMOVAL PAY ITEMS.
12. THE CONTRACTOR WILL BE REQUIRED TO USE A STEEL PLATE OR PLATES TO CLOSE ANY GAPS OCCURRING WHEN A FRAME IS OFFSET FROM THE STRUCTURE. THE STEEL PLATE SHALL BE ½-INCH THICK AND APPROXIMATELY 6-INCH WIDE BY 24-INCH LONG. SOME ADJUSTMENT IN SIZE MAY BE NECESSARY TO PREVENT THE STEEL PLATE FROM OVERHANGING THE OUTSIDE OF THE STRUCTURE WALL. THE STEEL PLATE SHALL BE BEDDED IN AND COVERED WITH MORTAR
13. ALL POSTS, RAILROAD TIES, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
14. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED.
15. ON STREETS TO BE FULL WIDTH MILLED (2" OR MORE), THE EXISTING STRUCTURES IN THE PAVEMENT SHALL BE ADJUSTED IN ACCORDANCE WITH THE IDOT DETAIL "FRAMES AND LIDS ADJUSTMENT WITH MILLING". THIS WORK SHALL BE IN ADDITION TO THE REQUIREMENTS FOR MANHOLES TO BE ADJUSTED.
16. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 ½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.
17. THE AGGREGATE GRADATION FOR THE AGGREGAE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR1
18. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF AND IHB RAILROADS WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF AND IHB RAILROADS TO MONIOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05
19. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK OR BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL.
20. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE 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 ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
21. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07. REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
22. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	3
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 3 OF 6 SHEETS		STA.	TO STA.
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SUMMARY OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2718/2704	20-00096-00-RS	COOK	52	4
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C1615201				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% LOCAL	100% LOCAL
				ROADWAY 000.5 URBAN	ROADWAY 000.5 URBAN
20101100	TREE TRUNK PROTECTION	EACH	56	56	0
20101200	TREE ROOT PRUNING	EACH	14	14	0
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	71	70	1
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	71	70	1
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	71	70	1
20101700	SUPPLEMENTAL WATERING	UNIT	23	22	1
20200100	EARTH EXCAVATION	CUYD	245	245	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CUYD	89	89	0
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	480	480	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQYD	3,775	3,725	50
25000210	SEEDING, CLASS 2A	ACRE	0.50	0.25	0.25
25200110	SODDING, SALT TOLERANT	SQYD	3,301	3,301	0
28000510	INLET FILTERS	EACH	56	56	0
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CUYD	20	20	0
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQYD	489	489	0

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 2 OF 6 SHEETS | STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 5
CONTRACT NO. 61K11			ILLINOIS FED. AID PROJECT C36(520)	

CODE NO.	ITEM	UNT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% LOCAL
				20% LOCAL	
				ROADWAY	ROADWAY
				0005	0005
				URBAN	URBAN
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	3,486	3,486	0
35800100	PREPARATION OF BASE	SQ YD	22,927	21,133	1,794
35800200	AGGREGATE BASE REPAIR	TON	1,205	0	1,205
40600290	BITUMINOUS MATERIALS (TACK COAT)	FOUND	14,310	14,265	45
40600370	LONGITUDINAL JOINT SEALANT	FOOT	6,700	6,381	319
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	72	57	15
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	463	401	62
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	252	0	252
40603200	POLYMERZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1,184	1,184	0
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1,926	1,775	151
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	7	7	0
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	464	464	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	20,086	20,086	0
42400800	DETECTABLE WARNINGS	SQ FT	510	510	0
44000100	PAVEMENT REMOVAL	SQ YD	1,794	0	1,794

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 6
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% LOCAL
				20% LOCAL	
				ROADWAY 0005 URBAN	ROADWAY 0005 URBAN
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQYD	21,133	21,133	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	629	629	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	6,705	6,522	183
44000600	SIDEWALK REMOVAL	SQFT	3,664	3,664	0
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQYD	21	21	0
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQYD	98	98	0
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQYD	4,767	4,767	0
56500700	DOMESTIC WATER SERVICE BOXES TO BE REMOVED	EACH	6	6	0
60220200	MANHOLES, TYPE A, 4'-DIAMETER	EACH	27	27	0
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	5	5	0
60260100	INLETS TO BE ADJUSTED	EACH	5	5	0
60266600	VALVE BOXES TO BE ADJUSTED	EACH	11	11	0
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	45	45	0
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	16	15	1
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5	0

* INDICATES SPECIALTY ITEM

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DRAWN - KAR	CHECKED - TMS	REVISED -
PLOT SCALE = 20,0000' / 1"	DATE = 10-02-2023	FILE = 200239_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE: NONE	SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	7
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E1320				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% LOCAL
				20% LOCAL	
				ROADWAY	ROADWAY
				0005	0005
				URBAN	URBAN
60500040	REMOVING MANHOLES	EACH	27	27	0
60500050	REMOVING CATCH BASINS	EACH	1	1	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	6,706	6,511	195
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	93	93	0
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	8	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	0
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	0
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	4	1
67100100	MOBILIZATION	L SUM	1	1	0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	0
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	980	948	32
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	327	316	11
* 72000100	SIGN PANEL - TYPE 1	SQ FT	33	33	0

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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PLOT SCALE = 20,000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 1/29/2024	CHECKED - TMS	REVISED -
	DATE - 10-02-2023	FILE - 200239_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE: NONE	SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 2710/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 8
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C166(S20)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% LOCAL
				ROADWAY	ROADWAY
				0005 URBAN	0005 URBAN
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	80	80	0
* 72900100	METAL POST - TYPE A	FOOT	54	54	0
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	98	98	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13,693	13693	0
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	999	999	0
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,590	2590	0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	436	436	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	0
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	0
	X0325225 BRICK PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	36	36	0
	X0326275 RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	2	2	0
	X2020205 ROCK EXCAVATION (SPECIAL)	CU YD	5	5	0
* X2600012	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY	EACH	1	1	0
	X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	7	7	0
	X4022000 TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	10	10	0

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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USER NAME	mvandervelden	DESIGNED	AKS	REVISED	-
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PLOT DATE	1/29/2024	DATE	10-02-2023	FILE	200239_SHT-SQQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

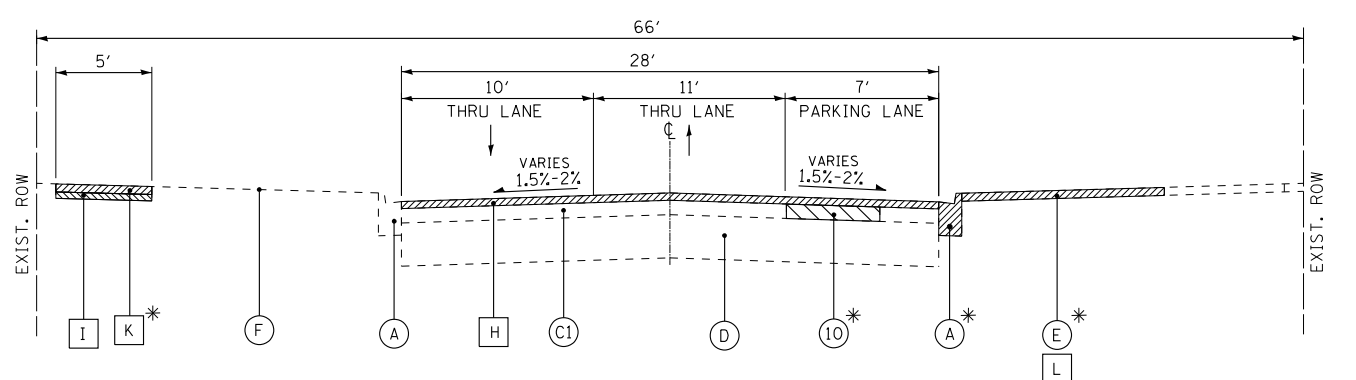
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00095-00-RS	COOK	52	9
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E1520				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% LOCAL	100% LOCAL
				ROADWAY 0005 URBAN	ROADWAY 0005 URBAN
X5430212	CURED-IN-PLACE PIPE LINER, 12"	FOOT	391	391	0
X5430215	CURED-IN-PLACE PIPE LINER, 15"	FOOT	1,678	1,678	0
X5430218	CURED-IN-PLACE PIPE LINER, 18"	FOOT	348	348	0
X5430232	CURED-IN-PLACE PIPE LINER, 32"	FOOT	1,154	924	230
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	5	5	0
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	40	38	2
X6050040	REMOVING MANHOLES (SPECIAL)	EACH	1	1	0
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	57	0	57
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	358	358	0
Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	195	195	0
Z0013798	CONSTRUCTION LAY OUT	L SUM	1	0.5	0.5
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	103	103	0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	0

* INDICATES SPECIALTY ITEM

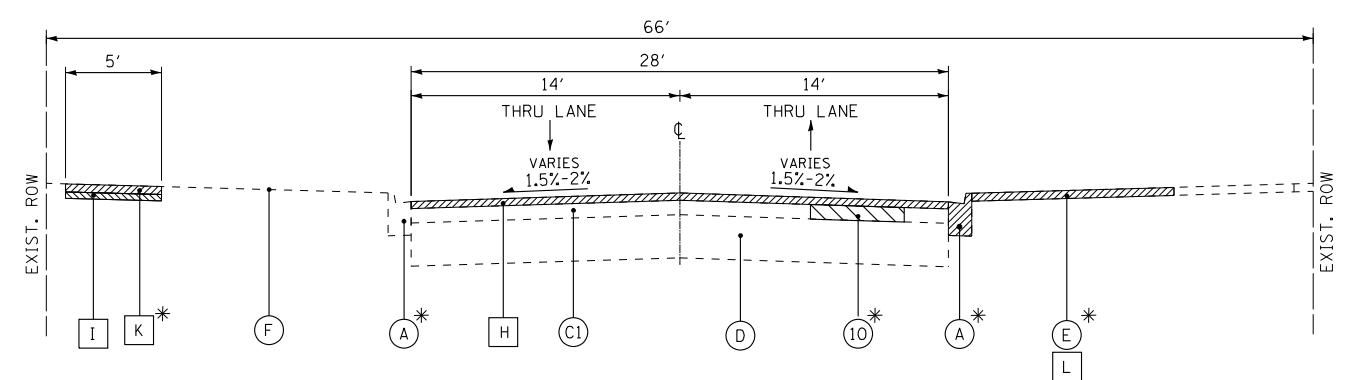
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EXISTING TYPICAL SECTION

BRAINARD AVENUE
 STA 10+71 TO 42+87
 OMIT STA 42+87 TO 43+40
 STA 43+40 TO 60+48
 OMIT STA 60+48 TO 60+94

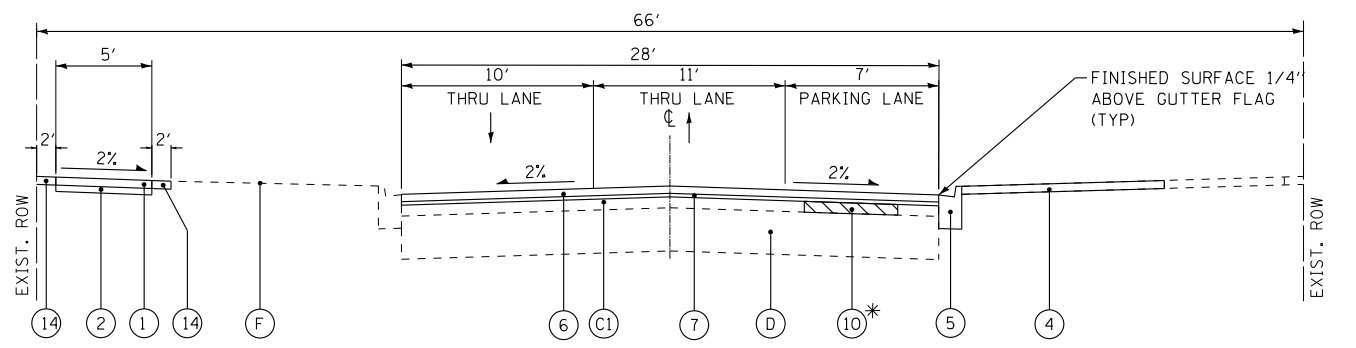
* AS DIRECTED BY THE ENGINEER



EXISTING TYPICAL SECTION

BRAINARD AVENUE
 STA 60+94 TO 63+40

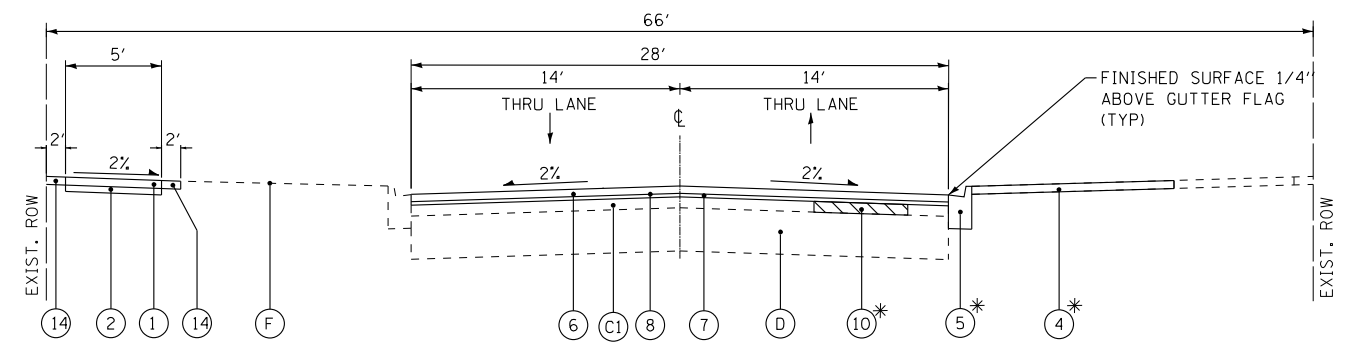
* AS DIRECTED BY THE ENGINEER



PROPOSED TYPICAL SECTION

BRAINARD AVENUE
 STA 10+71 TO 42+87
 OMIT STA 42+87 TO 43+40
 STA 43+40 TO 60+48
 OMIT STA 60+48 TO 60+94

* AS DIRECTED BY THE ENGINEER



PROPOSED TYPICAL SECTION

BRAINARD AVENUE
 STA 60+94 TO 63+40

* AS DIRECTED BY THE ENGINEER

EXISTING LEGEND

- (A) B-6.12 CURB AND GUTTER
- (B) TYPE B CURB
- (C1) HMA PAVEMENT (6-8")
- (C2) HMA PAVEMENT 4"
- (D) AGGREGATE BASE COURSE (10-12")
- (E) DRIVEWAY
- (F) GROUND
- (G) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (H) HMA SURFACE REMOVAL - 2 1/4"
- (I) PAVEMENT REMOVAL
- (J) EARTH EXCAVATION
- (K) SIDEWALK REMOVAL
- (L) DRIVEWAY PAVEMENT REMOVAL
- [Hatched Box] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (2) AGGREGATE BASE COURSE, TYPE B- 4"
- (3) TOPSOIL FURNISH AND PLACE, 4" SEEDING CLASS 2A (MODIFIED)
- (4) DRIVEWAY PAVEMENT (SEE DRIVEWAY SCHEDULE FOR MATERIAL)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) HMA SURFACE COURSE, MIX "D", IL-9.5, N50 - 1 1/2"
- (7) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50 - 1"
- (8) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (9) AGGREGATE SUBGRADE IMPROVEMENT
- (10) CLASS D PATCHES, 6" (AS DIRECTED BY THE ENGINEER)
- (11) INCIDENTAL HOT MIX ASPHALT SURFACING
- (12) HMA BINDER COURSE, IL-19.0, N50 - 2 1/2"
- (13) PREPARATION OF BASE
- (14) SODDING, SALT TOLERANT



USER NAME - mvanterveldein	DESIGNED - AKS	REVISED -
DRAWN - KAR	REVISIONS -	
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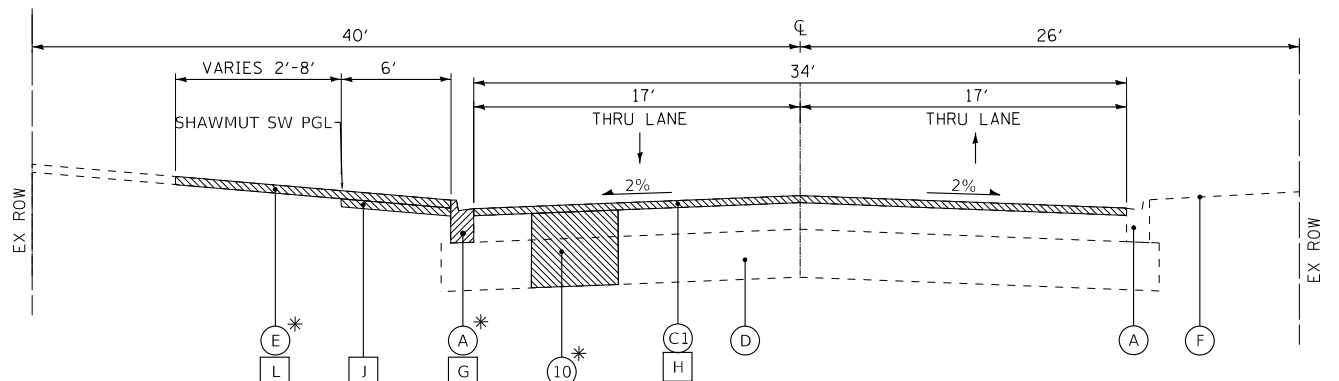
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

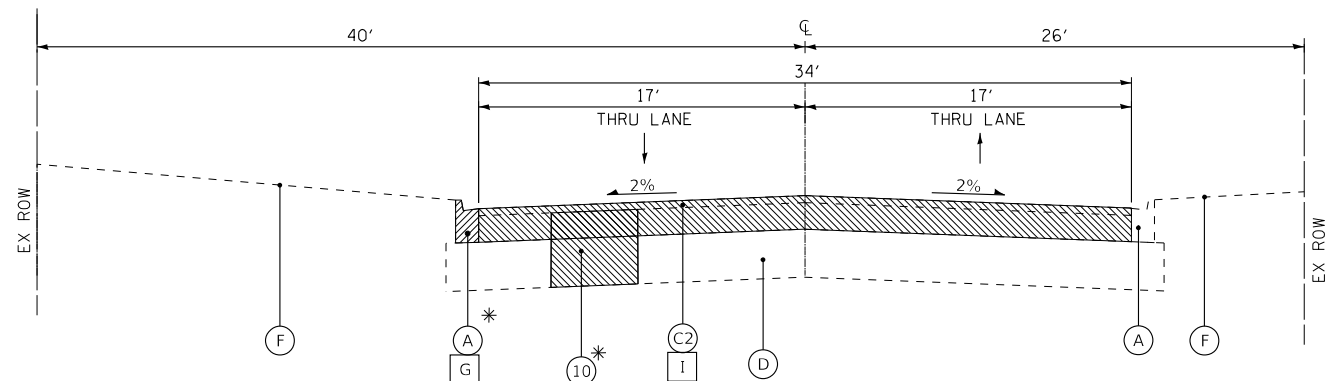
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CONTRACT NO. 61K11				ILLINOIS FED. AID PROJECT C16I(520)

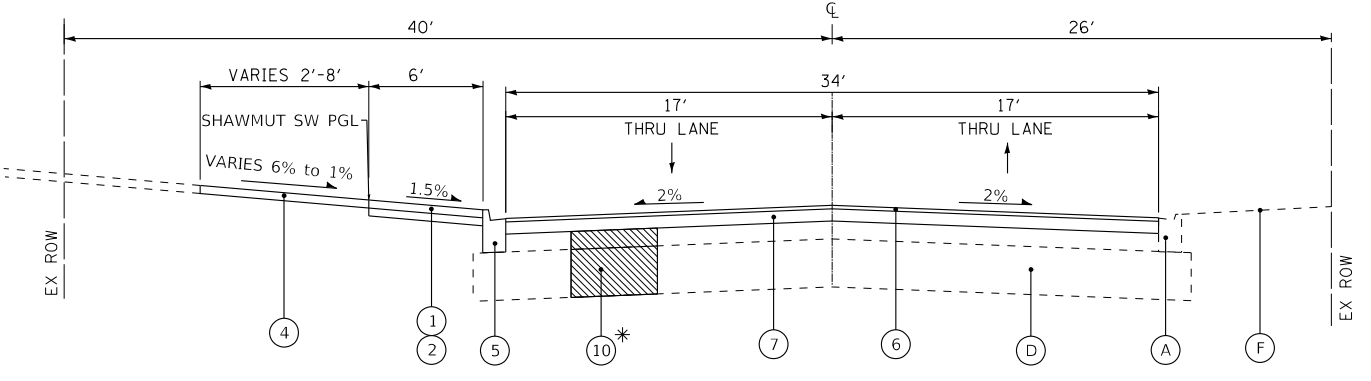
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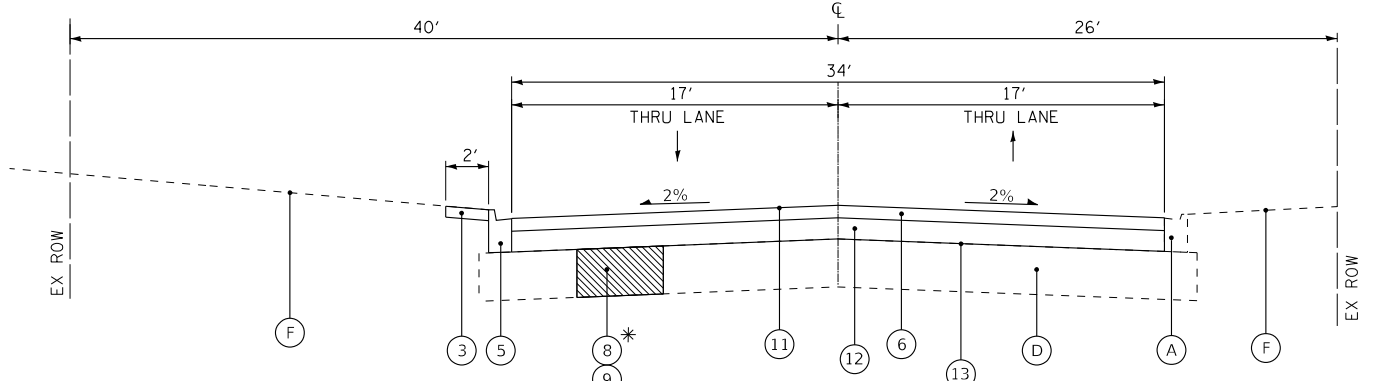
EXISTING TYPICAL SECTION
SHAWMUT AVENUE STA 31+34 TO STA 40+50
(SIDEWALK PGL STA 1031+34 TO STA 1040+50)



EXISTING TYPICAL SECTION
SHAWMUT AVENUE STA 40+50 TO STA 45+19
NON-PARTICIPATING



PROPOSED TYPICAL SECTION
SHAWMUT AVENUE STA 31+34 TO STA 40+50
(SIDEWALK PGL STA 1031+34 TO STA 1040+50)



PROPOSED TYPICAL SECTION
SHAWMUT AVENUE STA 40+50 TO STA 45+19
NON-PARTICIPATING

EXISTING LEGEND

- (A) B-6.12 CURB AND GUTTER
- (B) TYPE B CURB
- (C1) HMA PAVEMENT (6-8")
- (C2) HMA PAVEMENT 4"
- (D) AGGREGATE BASE COURSE (10-12")
- (E) DRIVEWAY
- (F) GROUND
- (G) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (H) HMA SURFACE REMOVAL - 2 1/4"
- (I) PAVEMENT REMOVAL
- (J) EARTH EXCAVATION
- (K) SIDEWALK REMOVAL
- (L) DRIVEWAY PAVEMENT REMOVAL
- (Hatched Box) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (2) AGGREGATE BASE COURSE, TYPE B- 4"
- (3) TOPSOIL FURNISH AND PLACE, 4" SEEDING CLASS 2A (MODIFIED)
- (4) DRIVEWAY PAVEMENT (SEE SCHEDULE FOR MATERIAL)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) HMA SURFACE COURSE, MIX "D", IL-9.5, N50 - 1 1/2"
- (7) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50 - 1"
- (8) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (9) AGGREGATE SUBGRADE IMPROVEMENT
- (10) CLASS D PATCHES, 6"
- (11) INCIDENTAL HOT MIX ASPHALT SURFACING
- (12) HMA BINDER COURSE, IL-19.0, N50 - 2 1/2"
- (13) PREPARATION OF BASE
- (14) SODDING, SALT TOLERANT



USER NAME - mvandervelden	DESIGNED - AKS	REVISED -
PLOT SCALE - 20.0000" = 1'	DRAWN - KAR	REVISED -
PLOT DATE - 1/29/2024	CHECKED - TMS	REVISED -
	DATE - 10-02-2023	FILE - 200239-SHT-TypSec.dgn

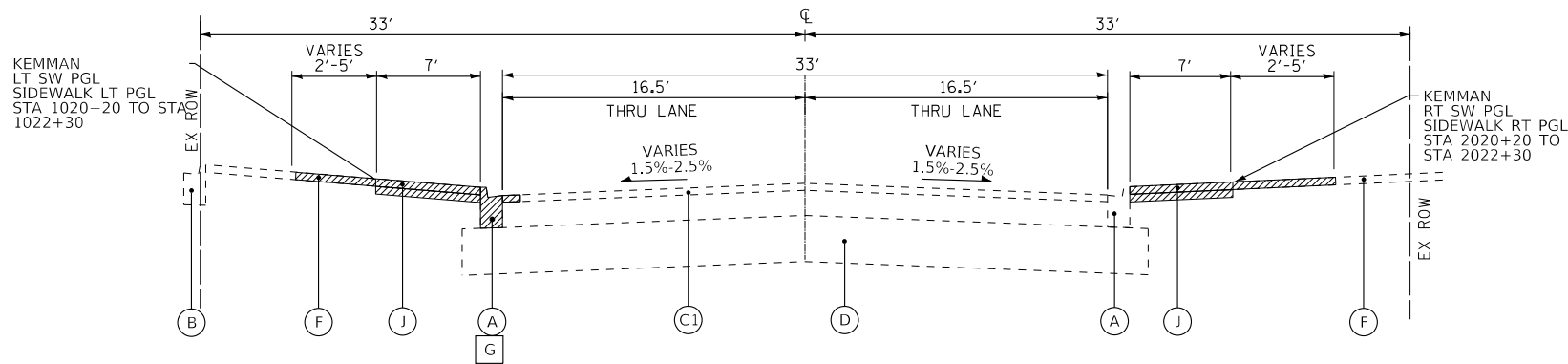
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

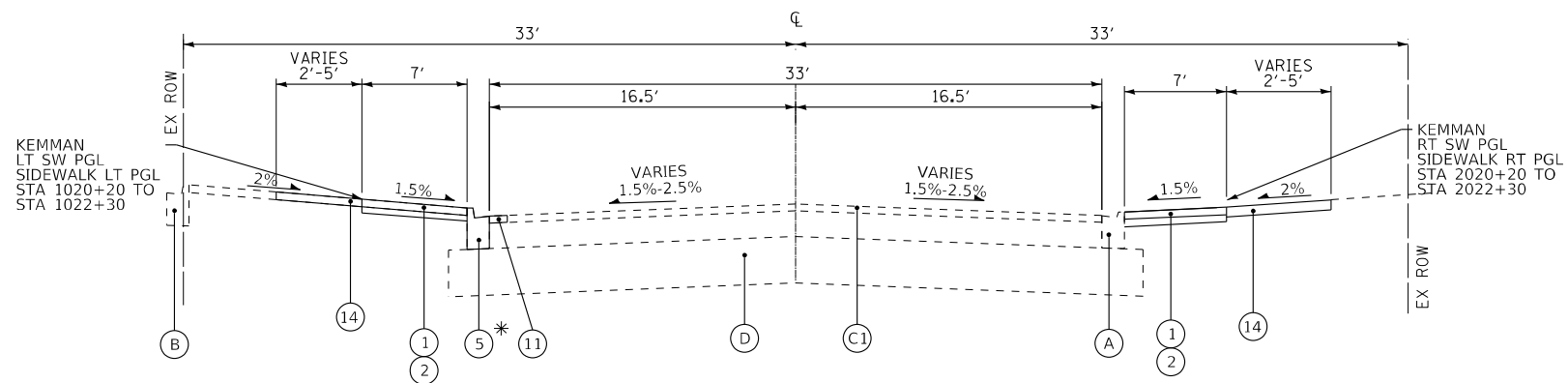
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F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 11
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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EXISTING TYPICAL SECTION
KEMMAN AVENUE (STATE ROUTE) STA 20+20 TO STA 22+30
(SIDEWALK LT PGL STA 1020+20 TO STA 1022+30)
(SIDEWALK RT PGL STA 2020+20 TO STA 2022+30)



PROPOSED TYPICAL SECTION
KEMMAN AVENUE (STATE ROUTE) STA 20+20 TO STA 22+30
(SIDEWALK LT PGL STA 1020+20 TO STA 1022+30)
(SIDEWALK RT PGL STA 2020+20 TO STA 2022+30)

* AS DETERMINED BY THE ENGINEER

EXISTING LEGEND

- (A) B-6.12 CURB AND GUTTER
- (B) TYPE B CURB
- (C1) HMA PAVEMENT (6-8")
- (C2) HMA PAVEMENT 4"
- (D) AGGREGATE BASE COURSE (10-12")
- (E) DRIVEWAY
- (F) GROUND
- (G) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (H) HMA SURFACE REMOVAL - 2 1/4"
- (I) PAVEMENT REMOVAL
- (J) EARTH EXCAVATION
- (K) SIDEWALK REMOVAL
- (L) DRIVEWAY PAVEMENT REMOVAL
- [Hatched Box] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (2) AGGREGATE BASE COURSE, TYPE B- 4"
- (3) TOPSOIL FURNISH AND PLACE, 4" SEEDING CLASS 2A (MODIFIED)
- (4) DRIVEWAY PAVEMENT (SEE SCHEDULE FOR MATERIAL)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) HMA SURFACE COURSE, MIX "D", IL-9.5, N50 - 1 1/2"
- (7) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50 - 1"
- (8) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (9) AGGREGATE SUBGRADE IMPROVEMENT
- (10) CLASS D PATCHES, 6"
- (11) INCIDENTAL HOT MIX ASPHALT SURFACING
- (12) HMA BINDER COURSE, IL-19.0, N50 - 2 1/2"
- (13) PREPARATION OF BASE
- (14) SODDING, SALT TOLERANT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 1 1/2"	4% @ 50 Gyr.	LR1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50: 1"	3.5% @ 50 Gyr.	LR1030-2
PAVEMENT RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 1 1/2"	4% @ 50 Gyr.	LR1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50: 2 1/2"	4% @ 50 Gyr.	LR1030-2
INCIDENTAL HMA SURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 Gyr.	LR1030-2
HMA DRIVEWAY PAVEMENT, 6"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 Gyr.	LR1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50: 4"	4% @ 50 Gyr.	LR1030-2
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19.0mm); 6"	4% @ 70 Gyr.	LR1030-2

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
3. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER HMA BINDER COURSE.



USER NAME - mvandervelden	DESIGNED - AKS	REVISED -
PLOT SCALE - 20.0000 * / in.	DRAWN - KAR	REVISED -
PLOT DATE - 1/29/2024	CHECKED - TMS	REVISED -
	DATE - 10-02-2023	FILE - 200239-SHT-TypSec.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND HOT-MIX ASPHALT REQUIREMENTS

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

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 12
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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USER NAME	mvdandervelden	DESIGNED	AKS	REVISED	
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PLOT DATE	1/29/2024	CHECKED	TMS	REVISED	
		DATE	10-02-2023	FILE	200239_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF MATERIALS

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	13
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

BRAINARD AVENUE		TREE SCHEDULE	
STATION	Location (RT/LT)	20101100 TREE TRUNK PROTECTION EACH	20101200 TREE ROOT PRUNING EACH
10+52	RT	1	1
10+88	RT	1	
11+56	RT	1	
12+12	RT	1	
12+88	RT	1	
13+06	LT	1	1
13+61	RT	1	
13+66	LT	1	1
14+03	RT	1	
14+10	LT	1	
14+46	RT	1	
14+59	LT	1	
14+74	RT	1	
15+06	LT	1	
15+24	RT	1	
15+52	LT	1	
15+86	RT	1	1
16+19	LT	1	
16+27	RT	1	1
16+55	LT	1	
17+70	LT	1	
17+82	RT	1	
17+99	LT	1	
18+25	LT	1	
18+40	RT	1	
18+90	RT	1	1
20+65	LT	1	
21+22	LT	1	
22+20	RT	1	
22+56	LT	1	1
23+13	LT	1	1
23+65	LT	1	1
24+69	RT	1	
25+15	RT	1	
26+83	LT	1	
26+88	LT	1	
27+16	RT	1	
27+51	RT	1	1
28+02	RT	1	1
28+45	RT	1	
30+98	RT	1	1
31+33	RT	1	
31+54	RT	1	
32+36	RT	1	
32+71	RT	1	
33+04	RT	1	
33+44	RT	1	
34+06	RT	1	
34+50	RT	1	
34+99	RT	1	
35+48	RT	1	
36+08	RT	1	1
44+92	RT	1	
45+42	RT	1	
51+61	LT	1	
52+64	RT	1	1
TOTAL		56	14

			CURB SCHEDULE	
			44000500	60603800
			COMBINATION CURB AND GUTTER REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
BRAINARD AVENUE			FOOT	FOOT
STATION	STATION	Location (RT/LT)		
10+35.0	10+50.0	RT	18	18
16+18.0	16+96.0	RT	86	86
16+53.0	16+75.0	LT	22	22
17+24.0	17+45.0	RT	30	30
17+75.0	19+13.0	LT	138	138
18+35.0	19+69.0	RT	135	135
20+15.0	20+67.0	LT	51	51
20+28.0	21+36.0	RT	107	107
21+89.0	23+72.0	LT	187	187
24+35.0	24+53.0	RT	25	25
24+47.0	24+55.0	LT	8	8
24+80.0	28+14.0	RT	334	334
24+88.0	27+78.0	LT	290	290
27+88.0	29+98.0	LT	210	210
28+40.0	30+12.0	RT	172	172
30+50.0	30+60.0	RT	10	10
30+69.0	30+98.0	RT	29	29
30+83.0	36+57.0	LT	588	588
31+22.0	31+57.0	RT	35	35
31+71.0	31+77.0	RT	6	6
31+95.0	32+57.0	RT	62	62
33+55.0	33+90.0	RT	35	35
35+52.0	35+72.0	RT	20	20
36+52.0	36+57.0	RT	14	14
36+84.0	37+04.0	RT	33	33
38+19.0	38+53.0	LT	34	34
39+48.0	40+20.0	LT	73	73
39+88.0	39+98.0	RT	10	10
42+02.0	42+17.0	RT	16	16
45+07.0	45+25.0	LT	20	20
45+64.0	45+69.0	LT	10	10
46+10.0	46+27.0	RT	17	17
46+14.0	46+17.0	LT	8	8
46+39.0	46+63.0	LT	36	36
46+62.0	47+14.0	RT	52	52
46+82.0	48+52.0	LT	170	170
47+58.0	48+17.0	RT	59	59
48+56.0	48+98.0	RT	43	43
48+77.0	49+28.0	LT	50	50
49+32.0	50+61.0	RT	129	129
50+43.0	52+17.0	LT	174	174
50+77.0	51+25.0	RT	48	48
51+39.0	52+65.0	RT	126	126
52+33.0	52+79.0	LT	46	46
52+95.0	54+04.0	LT	110	110
54+55.0	54+57.0	LT	10	10
54+71.0	58+93.0	LT	422	422
54+90.0	55+03.0	RT	12	12
55+18.0	55+48.0	RT	30	30
56+16.0	57+95.0	RT	179	179
58+78.0	59+07.0	RT	29	29
59+42.0	59+55.0	RT	13	13
59+47.0	59+92.0	LT	45	45
59+99.0	60+48.0	RT	61	61
60+11.0	60+36.0	LT	25	25
61+09.0	61+42.0	RT	32	32
62+15.0	62+43.0	RT	27	27
SUBTOTAL			4,757	4,757
SHAWMUT AVENUE				
STATION	STATION	Location (RT/LT)		
31+41.0	34+03.0	LT	527	527
32+36.0	32+90.0	RT	54	54
33+01.0	33+15.0	RT	14	14
34+01.0	34+56.0	RT	55	55
35+70.0	35+96.0	RT	26	26
36+00.0	40+05.0	LT	540	540
36+68.0	36+54.0	RT	16	16
37+32.0	37+41.0	RT	12	12
42+06.0	42+95.0	RT	99	99
42+53.0	43+26.0	LT	84	84
43+63.0	44+02.0	LT	0	0
SUBTOTAL			1,426	1,426
KEMMAN AVENUE				
STATION	STATION	Location (RT/LT)		
2020+17.0	2022+50.0	RT	233	233
1020+55.0	1022+35.0	LT	245	245
1022+56.6	1022+74.4	LT	22	22
2022+62.8	2022+78.0	RT	24	24
SUBTOTAL			523	523
TOTAL			6,706	6,706

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 mvanderveiden 1/29/2024 5:00:15 PM
 FILE NAME: E:\Crystal Lake\LAGRV\200239-2020 STP Application\CAD\Braithard Ave\Sheets\200239_SHT-SOQ.dgn



USER NAME - mvanderveiden	DESIGNED - AKS	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE - 20.0000' / 1"	CHECKED - TMS	REVISED -
PLOT DATE - 1/29/2024	DATE - 10-02-2023	FILE - 200239_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF MATERIALS	
SCALE: NONE	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 14
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

STATION	OFFSET FT	RT/LT	RIM	REMOVING MANHOLES	MANHOLES, TYPE A, 4" DIAMETER	INVERTS				
12+02	11	RT	657	1	1	644.75 15" N	644.75 15" S			
12+04	1	RT	656.79	1	1	648.79 15" N	648.79 15" S	649.94 12" E		
13+65	1	RT	654.76	1	1	646.65 15" N	646.65 15" S			
17+27	1	LT	650.69	1	1	642.54 24" N	642.64 15" S	642.64 15" S	642.64	
18+82	0	LT	649.92	1	1	642.17 24" N	642.17 24" S			
21+97	1	LT	649.41	1	1	641.16 24" N	641.16 24" S			
24+33	1	LT	649.02	1	1	640.57 24" N	640.57 24" N	643.12 12" W	642.92 12" E	
28+58	1	RT	647.74	1	1	639.22 30" N	639.22 30" S	643.23 8" SW		
31+74	0	RT	647.44	1	1	638.34 30" N	638.34 30" S	640.24 10" SW	640.19 10" W	641.5 15" E
33+76	0	RT	646.74	1	1	637.74 30" N	637.74 30" S			
36+56	17.0	LT	645.8	1	1	640.39 12" NE	640.89 12" W			
36+72	6	RT	646.33	1	1	634.39 42" E	634.39 42" W	635.18 30" S	635.01 18" N	
40+18	1	RT	645.39	1	1	636.99 18" S	636.99 15" N	637.95 10" W	638.14 15" NW	
41+81	2	RT	645.19	1	1	637.67 15" S	637.84 10" NE	637.99 10" W	639.98 10" SW	
41+85	11	LT	644.78	1	1	641.78 6" W	641.58 8" S			
44+00	11	RT	645.11	1	1	633.16 30" E	633.16 30" NW	633.66 15" W		
45+30	1	RT	643.65	1	1	633.20 30" S	633.20 30" N	633.73 15" W		
47+89	1	RT	642.94	1	1	634.59 15" S	634.59 15" N			
49+60	0	RT	643.87	1	1	634.97 15" S	634.97 15" N			
51+30	1	RT	644.17	1	1	635.42 15" S	635.42 15" N			
52+93	0	RT	644.5	1	1	635.68 15" S	635.68 15" N	635.90 12" W	635.75 12" W	
54+62	0	RT	644.44	1	1	636.09 15" S	636.09 15" N			
56+58	0	LT	643.76	1	1	636.51 15" S	636.51 15" N			
58+52	0	RT	643.53	1	1	636.81 15" S	636.81 15" S			
60+37	1	RT	642.95	1	1	637.20 12" S	637.20 12" N	637.70 12" NW	637.75 12" E	
60+94	3	RT	642.97	1	1	637.72 12" N	637.72 12" S	638.17 10" NE	637.87 12" W	637.87 12" E
20+48.0	1	LT	649.43	1	1	641.74 24" N	641.74 24" S			
TOTAL				27	27					

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 mvdandervelden 1/29/2024 5:00:16 PM
 FILE NAME: E:\Crystal Lake\UGRV\200239-2020 STP Application\CAD\Brahard_Ave\Sheets\200239_SHT-SOQ.dgn
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 ...:\P\dndv\200239_Ph2-Plan_Sect.dwg
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USER NAME - mvdandervelden	DESIGNED - AKS	REVISED -
PLOT SCALE - 20.0000' / in.	CHECKED - TMS	REVISED -
PLOT DATE - 1/29/2024	DATE - 10-02-2023	FILE - 200239_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF MATERIALS

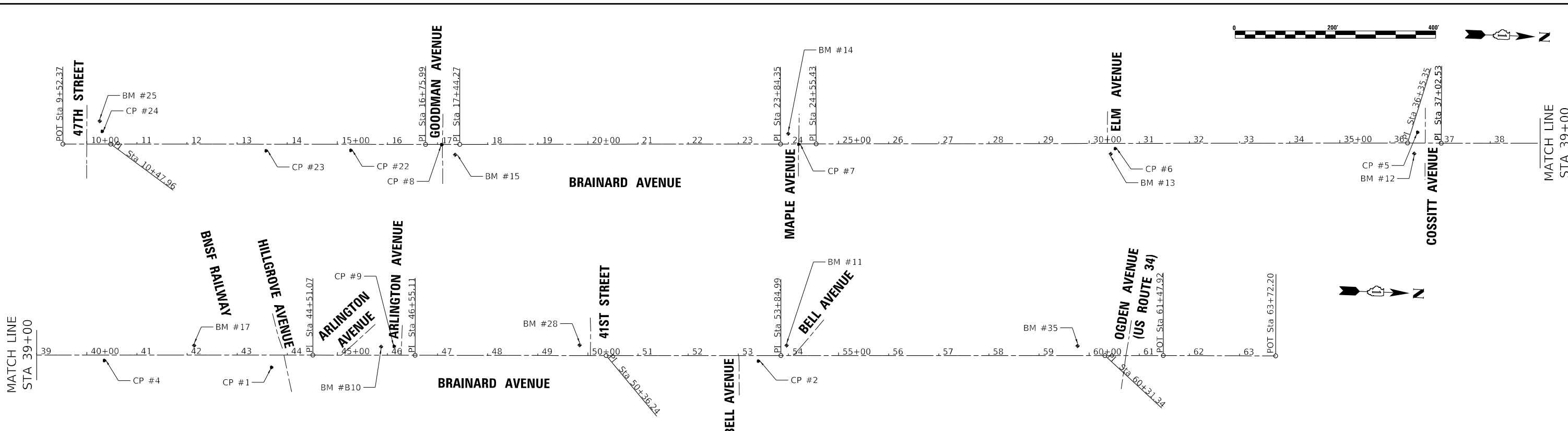
SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 15
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

BRAINARD AVENUE		DRIVEWAY SCHEDULE				
		20200100	42400200	44000200	Z004522	42300200
STATION	Location (RT/LT)	EARTH EXCAVATION CU YD	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH SQ FT	DRIVEWAY PAVEMENT REMOVAL SQ YD	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6" SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD
10+34.0	LT		216			
10+35.0	RT		207			
10+76.0	LT		240			
10+95.0	RT		112			
11+22.0	RT		60			
11+69.0	RT		66			
12+16.0	RT		25			
12+31.0	LT		41			
12+33.0	RT		79			
12+52.0	LT		150			
12+91.0	RT		34			
13+07.0	RT		65			
13+20.0	LT	3.1		18.8		18.8
13+34.0	RT		62			
13+48.0	LT		100			
13+71.0	RT		19			
13+89.0	RT		104			
14+21.0	RT		56			
14+23.0	LT		77			
14+36.0	RT		86			
15+01.0	RT		49			
15+44.0	RT		30			
15+69.0	RT		44			
15+80.0	LT	0.1		0.4		0.4
15+83.0	RT		29			
16+07.0	RT		59			
16+49.0	LT		49			
16+59.0	RT		281			
17+27.0	RT		344			
17+87.0	RT		70			
18+22.0	LT		21			
18+28.0	RT		76			
18+44.0	LT		24			
18+55.0	RT		151			
19+31.0	RT		149			
19+35.0	LT		46			
19+38.0	RT	0.1		0.4		0.4
20+02.0	LT		60			
20+11.0	RT		84			
20+34.0	LT	0.1		0.3		0.3
20+36.0	LT		50			
20+53.0	RT	2		10		10
20+84.0	LT		49			
20+88.0	LT	0.1		0.4		0.4
21+34.0	LT		49			
21+35.0	RT	0.1		0.4		0.4
21+42.0	RT		174			
21+49.0	LT		81			
21+89.0	RT		366			
21+94.0	LT		183			
22+42.0	LT		65			
22+59.0	LT		25			
22+81.0	LT		50			
22+94.0	RT		386			
23+13.0	LT		178			
23+75.0	RT		266			
24+36.0	RT		224			
24+48.0	LT		154			
24+73.0	LT		49			
25+11.0	LT		118			
25+16.0	RT		66			
25+55.0	RT		22			
25+82.0	RT	2		11		11
25+86.0	RT		66			
26+03.0	LT		82			
26+23.0	LT		26			
26+37.0	LT		123			
26+57.0	RT	2		12		12
26+98.0	RT		26			
27+23.0	RT	2		10		10
27+26.0	RT		37			
27+81.0	LT		33			
28+32.0	LT		58			
28+40.0	RT		27			
28+83.0	RT		108			
28+98.0	LT		52			
29+40.0	LT		30			
29+82.0	LT		44			
30+00.0	RT		115			
30+63.0	RT		185			
30+81.0	LT		74			
30+99.0	LT		34			
31+58.0	RT		104			
31+97.0	RT		82			
33+33.0	LT		39			
34+21.0	RT		50			
34+60.0	LT		25			
34+78.0	RT		24			
34+89.0	RT		98			
34+99.0	RT		31			
35+57.0	RT		78			
36+03.0	LT		29			
36+26.0	LT		32			
36+39.0	LT		41			
36+44.0	RT		49			
36+44.0	LT		68			
36+87.0	RT		212			
37+46.0	LT		25			
38+06.0	LT		253			
39+67.0	LT		140			
39+79.0	RT		32			
40+02.0	LT		89			
40+14.0	RT		87			
40+25.0	LT		28			
40+46.0	LT		28			
42+77.0	LT		20			
45+06.0	LT		73			
45+67.0	LT		238			
TOTAL		11	8,979	64	0	64

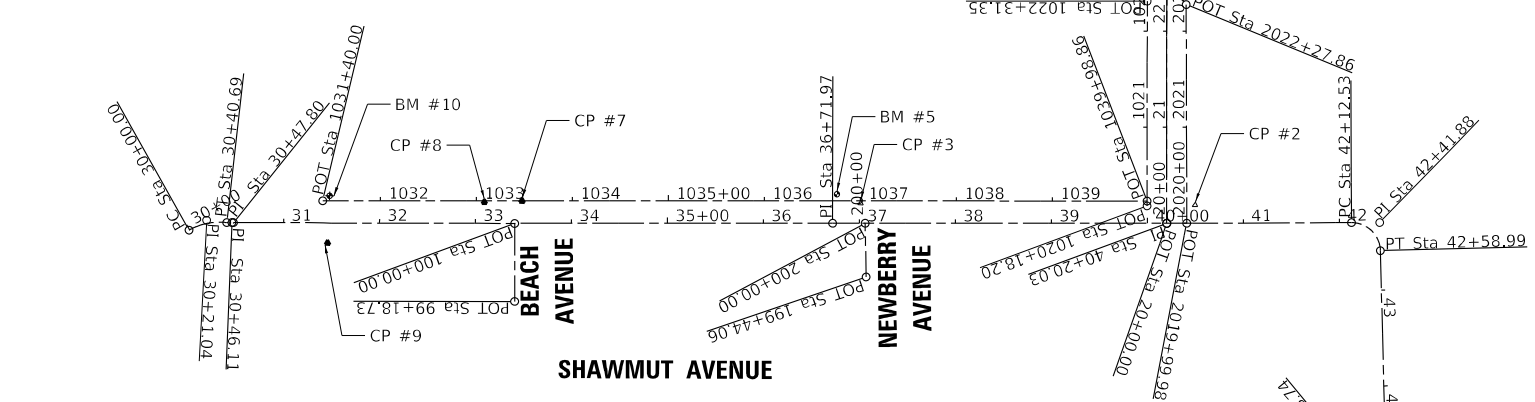
BRAINARD AVENUE		DRIVEWAY SCHEDULE				
		20200100	42400200	44000200	Z004522	42300200
STATION	Location (RT/LT)	EARTH EXCAVATION CU YD	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH SQ FT	DRIVEWAY PAVEMENT REMOVAL SQ YD	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6" SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD
45+79.0	LT		9			
46+41.0	LT		280			
46+71.0	RT		23			
46+99.0	LT		124			
47+45.0	LT		132			
47+78.0	LT		24			
47+80.0	RT		30			
48+37.0	LT		28			
48+68.0	LT		58			
49+10.0	LT		55			
49+43.0	LT		31			
49+64.0	LT		24			
50+10.0	RT		53			
50+17.0	LT		74			
50+32.0	LT		98			
50+71.0	LT		223			
50+84.0	RT		103			
51+26.0	LT		69			
51+74.0	LT		74			
52+23.0	LT		27			
52+54.0	LT		29			
52+59.0	RT		279			
52+78.0	LT		28			
53+17.0	RT		25			
53+30.0	LT		22			
53+60.0	LT		48			
54+36.0	RT	3		17		17
54+37.0	RT		55			
54+99.0	RT		49			
55+24.0	RT		19			
55+41.0	LT		23			
55+55.0	LT		62			
55+74.0	RT		85			
55+97.0	LT		130			
56+21.0	RT		93			
56+48.0	RT		50			
56+89.0	RT		64			
57+02.0	LT		67			
57+37.0	RT		112			
57+57.0	LT		45			
57+80.0	RT		22			
57+99.0	RT		27			
58+25.0	RT	3		16		16
58+59.0	RT		93			
59+57.0	LT		57			
60+17.0	RT		286			
60+37.0	LT		226			
60+90.0	RT		360			
60+99.0	LT		417			
61+52.0	RT		26			
61+70.0	RT		32			
62+10.0	LT	2		12		12
62+15.0	LT		65			
62+46.0	RT		93			
62+52.0	LT		29			
62+55.0	RT		28			
62+78.0	RT		128			
SUBTOTAL		7	4,935	45	0	45
TOTAL		18	13,915	109	0	109
SHAWMUT AVENUE						
STATION	Location (RT/LT)	EARTH EXCAVATION CU YD	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH SQ FT	DRIVEWAY PAVEMENT REMOVAL SQ YD	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6" SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD
31+40.0	RT		145			
31+50.0	LT			113	50	
31+61.0	LT				15	
31+83.0	RT		167			
32+11.0	LT				14	
32+33.0	RT		86			
32+53.0	LT	2		15		15
32+65.0	RT	10	570			
33+66.0	LT		57			57
34+18.0	RT		379			
34+86.0	LT	5		28.3		28
35+11.0	RT		518			
36+10.0	LT	5		29		29
36+29.0	RT		309			
36+86.0	LT	1		7		7
36+99.0	RT		437			
37+41.0	LT	25		150		150
37+42.0	LT				36	
38+06.0	LT				28	
38+06.0	RT		409			
38+82.0	LT	12		69		69
39+24.0	RT		202			
39+61.0	LT			34	34	
39+81.0	RT		98			
20+06.0	LT				17	
22+06.0	LT/RT			17		
SUBTOTAL		59	3,319	520	195	355
KEMMAN AVENUE						
STATION	Location (RT/LT)	EARTH EXCAVATION CU YD	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH SQ FT	DRIVEWAY PAVEMENT REMOVAL SQ YD	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6" SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD
1020+31.0			29			
1020+35.0			32			
1020+39.0			35			
1020+44.0			1,019			
1021+91.0			35			
1021+96.0			35			
1022+01.0			21			
1022+67.5			42			
1022+80.1			77			
2020+28.0			25			
2020+33.0			35			
2020+38.0			35			
2020+43.0			1,122			
2022+03.0			35			
2022+08.0			34			
2022+13.0			18			
2022+71.8			29			
2022+71.8			100			
2022+84.4			94			
SUBTOTAL		0	2,852	0	0	0
CURB TOTAL		91				
SIDEWALK REMOVAL TOTAL		77				
TOTAL		245	20,086	629	195	464

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 mvdandervelden 1/29/2024 5:00:20 PM
 FILE NAME: E:\Crystal Lake\UGRV\200239-SHT-Align.dgn
 PROJECT: E:\Crystal Lake\UGRV\200239-SHT-Align.dgn
 MATCH LINE STA 27+00
 MATCH LINE STA 39+00



PROP. CURVE SHAWMUT1_1
 PI STA. = 30+21.04
 Δ = 35° 49' 41" (RT)
 D = 88° 02' 40"
 R = 65.08'
 T = 21.04'
 L = 40.69'
 E = 3.32'
 e = —
 T.R. = —
 S.E. RUN = —
 P.C. STA. = 30+00.00
 P.T. STA. = 30+40.69

PROP. CURVE SHAWMUT1_12
 PI STA. = 42+41.88
 Δ = 88° 44' 51" (RT)
 D = 190° 59' 09"
 R = 30.00'
 T = 29.35'
 L = 46.47'
 E = 11.97'
 e = —
 T.R. = —
 S.E. RUN = —
 P.C. STA. = 42+12.53
 P.T. STA. = 42+58.99



BENCHMARKS

- BM #10 MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE AT SOUTHWEST CORNER OF BRAINARD AVENUE AND ARLINGTON AVENUE
ELEV = 643.529 (NAVD88)
- BM #11 MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE AT SOUTHWEST CORNER OF BRAINARD AVENUE AND BELL AVENUE
ELEV = 647.109 (NAVD88)
- BM #13 NORTHEAST BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF BRAINARD AVENUE AND ELM AVENUE
ELEV = 649.319 (NAVD88)
- BM #14 MINI RAILROAD SPIKE IN NORTHEAST FACE OF POWER POLE AT SOUTHWEST CORNER OF BRAINARD AVENUE AND MAPLE AVENUE
ELEV = 650.669 (NAVD88)
- BM #15 NORTHEAST BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF BRAINARD AVENUE AND GOODMAN AVENUE
ELEV = 652.199 (NAVD88)
- BM #17 MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE AT NORTHWEST CORNER OF BRAINARD AVENUE AND BURLINGTON AVENUE
ELEV = 646.376 (NAVD88)
- BM #25 RAILROAD SPIKE IN SOUTH FACE OF POWER POLE AT NORTHWEST CORNER OF BRAINARD AVENUE AND 47TH STREET
ELEV = 660.391 (NAVD88)
- BM #28 RAILROAD SPIKE IN EAST FACE OF POWER POLE AT SOUTHWEST CORNER OF BRAINARD AVENUE AND 41ST STREET
ELEV = 644.487 (NAVD88)
- BM#35 MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE AT SOUTHWEST CORNER OF BRAINARD AVENUE AND OGDEN AVENUE AT ADDRESS 154 BRAINARD AVENUE
ELEV = 644.273 (NAVD88)
- BM #4 MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE ON WEST SIDE OF KEMMAN AVENUE AT 302 KEMMAN AVENUE
ELEV = 625.147 (NAVD88)
- BM #5 MINI RAILROAD SPIKE IN SOUTH FACE OF POWER POLE ON NORTH SIDE OF SHAWMUT AVENUE AT NEWBERRY AVENUE
ELEV = 625.61 (NAVD88)
- BM #10 MINI RAILROAD SPIKE IN SOUTH FACE OF POWER POLE WITH LIGHT AT NORTHEAST CORNER OF RR TRACKS AND SHAWMUT AVENUE ADDRESS 405
ELEV = 627.511 (NAVD88)



USER NAME - mvdandervelden	DESIGNED - AKS	REVISED -
DRAWN - KAR	REVISIONS -	
CHECKED - TMS	REVISIONS -	
DATE - 10-02-2023	FILE - 200239_SHT-Align.dgn	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	16
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(S20)				

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 ...\\pltdrv\p04f-BW_Default\pltdrv
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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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Beginning chain BRAINARD description
 Feature: Geom_Pr_Centerline
 =====
 Point BRAINARD1 N 1,871,763.95 E 1,108,083.59 Sta 9+52
 Course from BRAINARD1 to BRAINARD3 N 2° 13' 09" W Dist 95.59
 Point BRAINARD3 N 1,871,859.47 E 1,108,079.89 Sta 10+48
 Course from BRAINARD3 to BRAINARD5 N 2° 08' 42" W Dist 628.02
 Point BRAINARD5 N 1,872,487.06 E 1,108,056.38 Sta 16+76
 Course from BRAINARD5 to BRAINARD7 N 2° 14' 57" W Dist 68.28
 Point BRAINARD7 N 1,872,555.29 E 1,108,053.70 Sta 17+44
 Course from BRAINARD7 to BRAINARD9 N 2° 15' 46" W Dist 640.07
 Point BRAINARD9 N 1,873,194.86 E 1,108,028.43 Sta 23+84
 Course from BRAINARD9 to BRAINARD11 N 2° 26' 49" W Dist 71.08
 Point BRAINARD11 N 1,873,265.88 E 1,108,025.40 Sta 24+55
 Course from BRAINARD11 to BRAINARD13 N 2° 17' 37" W Dist 1,179.93
 Point BRAINARD13 N 1,874,444.86 E 1,107,978.17 Sta 36+35
 Course from BRAINARD13 to BRAINARD15 N 1° 54' 28" W Dist 67.18
 Point BRAINARD15 N 1,874,512.00 E 1,107,975.94 Sta 37+03
 Course from BRAINARD15 to BRAINARD17 N 2° 11' 41" W Dist 748.54
 Point BRAINARD17 N 1,875,259.99 E 1,107,947.27 Sta 44+51
 Course from BRAINARD17 to BRAINARD19 N 2° 05' 27" W Dist 204.04
 Point BRAINARD19 N 1,875,463.90 E 1,107,939.83 Sta 46+55
 Course from BRAINARD19 to BRAINARD21 N 2° 08' 12" W Dist 381.13
 Point BRAINARD21 N 1,875,844.76 E 1,107,925.62 Sta 50+36
 Course from BRAINARD21 to BRAINARD23 N 2° 11' 47" W Dist 348.75
 Point BRAINARD23 N 1,876,193.26 E 1,107,912.25 Sta 53+85
 Course from BRAINARD23 to BRAINARD25 N 2° 12' 06" W Dist 646.35
 Point BRAINARD25 N 1,876,839.13 E 1,107,887.42 Sta 60+31
 Course from BRAINARD25 to BRAINARD27 N 2° 16' 07" W Dist 116.58
 Point BRAINARD27 N 1,876,955.62 E 1,107,882.81 Sta 61+48
 Course from BRAINARD27 to BRAINARD28 N 1° 59' 59" W Dist 224.28
 Point BRAINARD28 N 1,877,179.76 E 1,107,874.98 Sta 63+72
 =====
 Ending chain BRAINARD description

Beginning chain SHAWMUT1 description
 Feature: Geom_Pr_Centerline
 =====
 Curve Data

 Curve SHAWMUT1 1
 P.I. Station 30+21 N 1,877,085.60 E 1,112,015.22
 Delta = 35° 49' 41" (RT)
 Degree = 88° 02' 40"
 Tangent = 21.04
 Length = 40.69
 Radius = 65.08
 External = 3.32
 Long Chord = 40.03
 Mid. Ord. = 3.15
 P.C. Station 30+00 N 1,877,074.65 E 1,111,997.26
 P.T. Station 30+41 N 1,877,083.97 E 1,112,036.19
 C.C. N 1,877,019.09 E 1,112,031.14
 Back = N 58° 37' 15" E
 Ahead = S 85° 33' 04" E
 Chord Bear = N 76° 32' 05" E
 Course from PT SHAWMUT1 1 to SHAWMUT14 N 87° 38' 59" E Dist 5.41
 Point SHAWMUT14 N 1,877,084.19 E 1,112,041.60 Sta 30+46
 Course from SHAWMUT14 to SHAWMUT16 S 87° 50' 20" E Dist 1.70
 Point SHAWMUT16 N 1,877,084.13 E 1,112,043.30 Sta 30+48
 Course from SHAWMUT16 to SHAWMUT18 N 87° 57' 44" E Dist 624.16
 Point SHAWMUT18 N 1,877,106.32 E 1,112,667.06 Sta 36+72
 Course from SHAWMUT18 to SHAWMUT110 N 87° 54' 20" E Dist 348.06
 Point SHAWMUT110 N 1,877,119.04 E 1,113,014.89 Sta 40+20
 Course from SHAWMUT110 to PC SHAWMUT1 12 N 87° 41' 05" E Dist 192.50
 Curve Data

 Curve SHAWMUT1 12
 P.I. Station 42+42 N 1,877,128.01 E 1,113,236.56
 Delta = 88° 44' 51" (RT)
 Degree = 190° 59' 09"
 Tangent = 29.35
 Length = 46.47
 Radius = 30.00
 External = 11.97
 Long Chord = 41.96
 Mid. Ord. = 8.56
 P.C. Station 42+13 N 1,877,126.82 E 1,113,207.23
 P.T. Station 42+59 N 1,877,098.71 E 1,113,238.39
 C.C. N 1,877,096.84 E 1,113,208.45
 Back = N 87° 41' 05" E
 Ahead = S 3° 34' 04" E
 Chord Bear = S 47° 56' 30" E
 Course from PT SHAWMUT1 12 to SHAWMUT114 S 3° 34' 04" E Dist 259.75
 Point SHAWMUT114 N 1,876,839.46 E 1,113,254.55 Sta 45+19
 =====
 Ending chain SHAWMUT1 description

Beginning chain KEMMAN description
 Feature: Geom_Pr_Centerline
 =====
 Point KEMMAN1 N 1,877,119.04 E 1,113,014.89 Sta 20+00
 Course from KEMMAN1 to KEMMAN2 N 2° 04' 29" W Dist 348.30
 Point KEMMAN2 N 1,877,467.11 E 1,113,002.28 Sta 23+48
 =====
 Ending chain KEMMAN description

Beginning chain PRSW3 description
 Feature: Geom_Pr_Centerline
 =====
 Point PRSW31 N 1,877,111.30 E 1,112,134.61 Sta 1031+40
 Course from PRSW31 to PRSW32 N 87° 55' 16" E Dist 859.96
 Point PRSW32 N 1,877,142.50 E 1,112,994.00 Sta 1040+00
 =====
 Ending chain PRSW3 description
 Beginning chain PRSW4 description
 Feature: Geom_Pr_Centerline
 =====
 Point PRSW41 N 1,877,118.24 E 1,112,991.52 Sta 1020+00
 Course from PRSW41 to PRSW42 N 2° 10' 24" W Dist 226.36
 Point PRSW42 N 1,877,344.43 E 1,112,982.94 Sta 1022+26
 =====
 Ending chain PRSW4 description
 Beginning chain PRSW5 description
 Feature: Geom_Pr_Centerline
 =====
 Point PRSW51 N 1,877,051.71 E 1,112,704.01 Sta 199+44
 Course from PRSW51 to PRSW52 N 3° 08' 39" W Dist 55.94
 Point PRSW52 N 1,877,107.56 E 1,112,700.94 Sta 200+00
 =====
 Ending chain PRSW5 description
 Beginning chain PRSW6 description
 Feature: Geom_Pr_Centerline
 =====
 Point PRSW61 N 1,877,360.01 E 1,113,006.16 Sta 300+00
 Course from PRSW61 to PRSW62 N 87° 50' 33" E Dist 113.90
 Point PRSW62 N 1,877,364.30 E 1,113,119.98 Sta 301+14
 =====
 Ending chain PRSW6 description
 Beginning chain PRSWEK description
 Feature: Geom_Pr_Centerline
 =====
 Point PRSWEK1 N 1,877,120.05 E 1,113,039.72 Sta 2020+00
 Course from PRSWEK1 to PRSWEK2 N 2° 13' 54" W Dist 228.77
 Point PRSWEK2 N 1,877,348.64 E 1,113,030.81 Sta 2022+29
 =====
 Ending chain PRSWEK description

USER NAME - mvdandervelden	DESIGNED - AKS	REVISED -
DRAWN - KAR	REVISOR -	
PLOT SCALE - 100.0000' / in.	CHECKED - TMS	REVISED -
PLOT DATE - 1/29/2024	DATE - 10-02-2023	FILE - 200239_SHT-Align.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

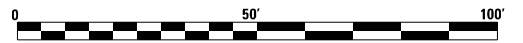
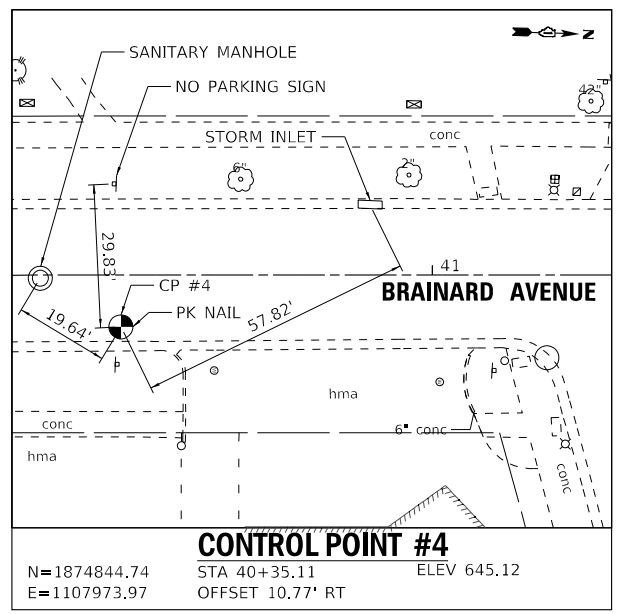
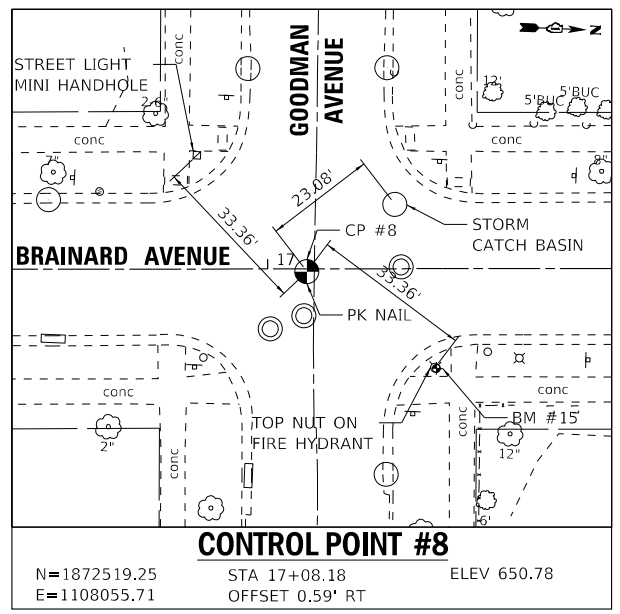
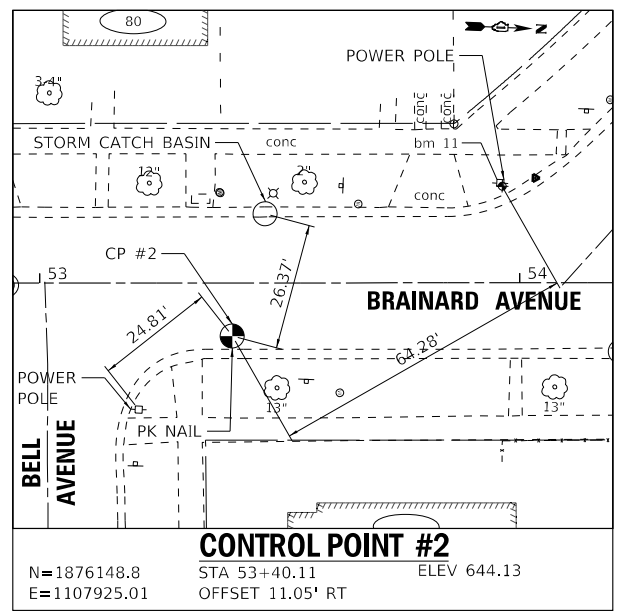
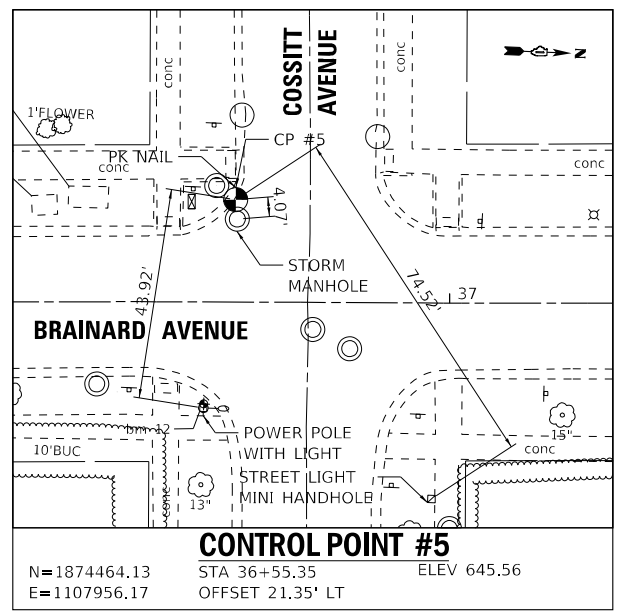
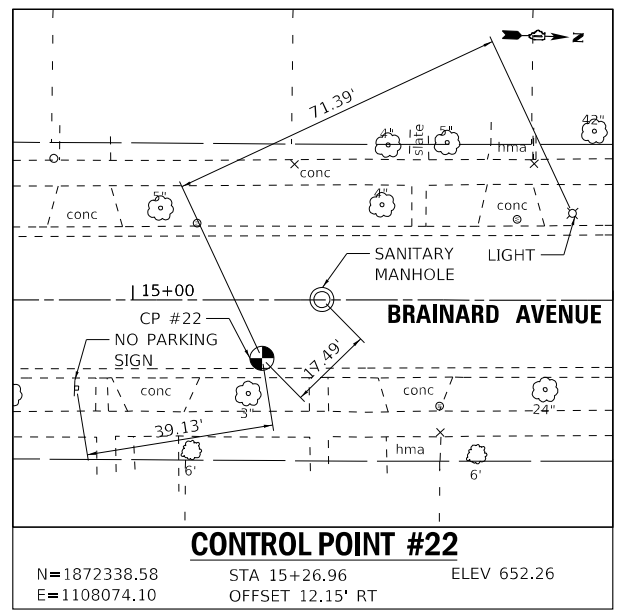
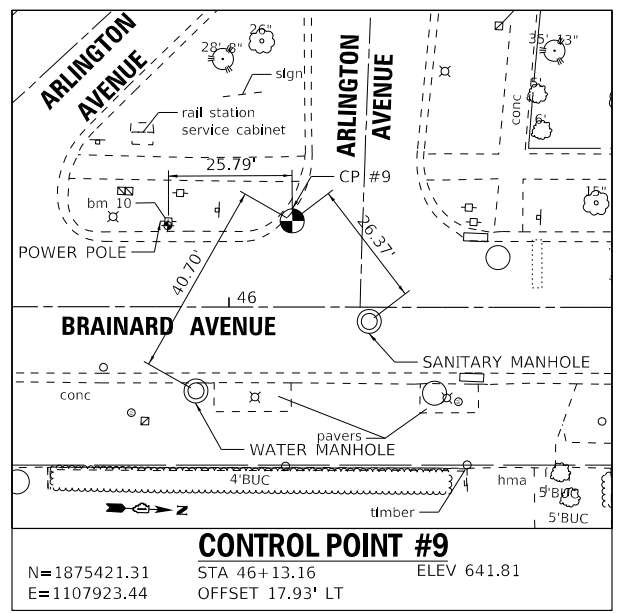
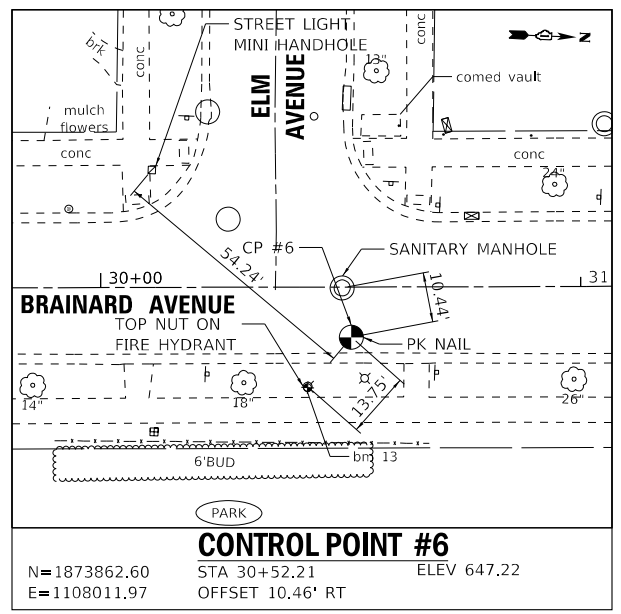
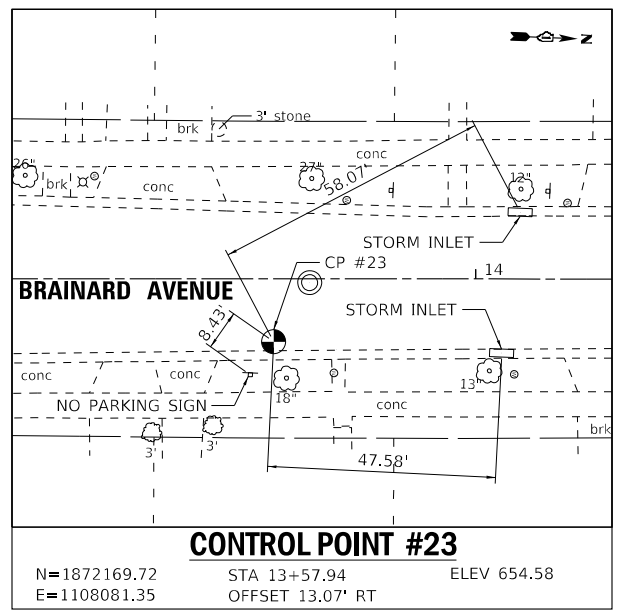
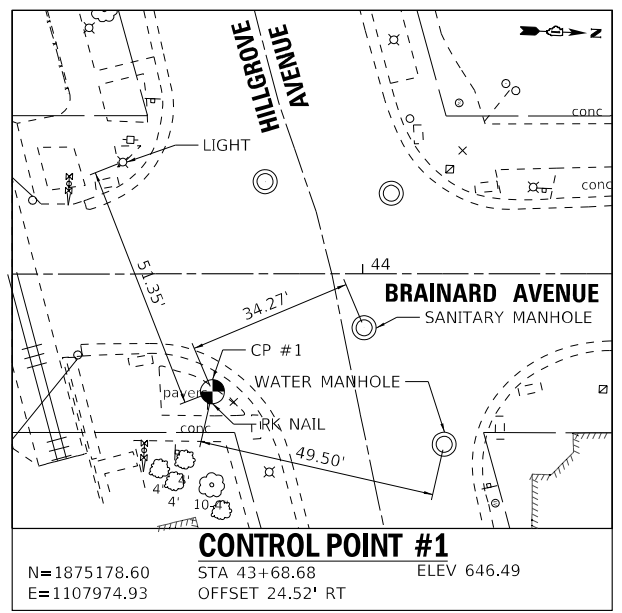
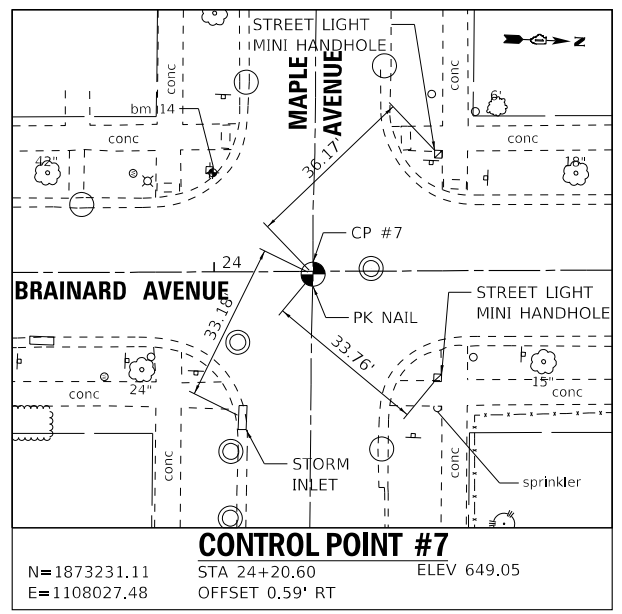
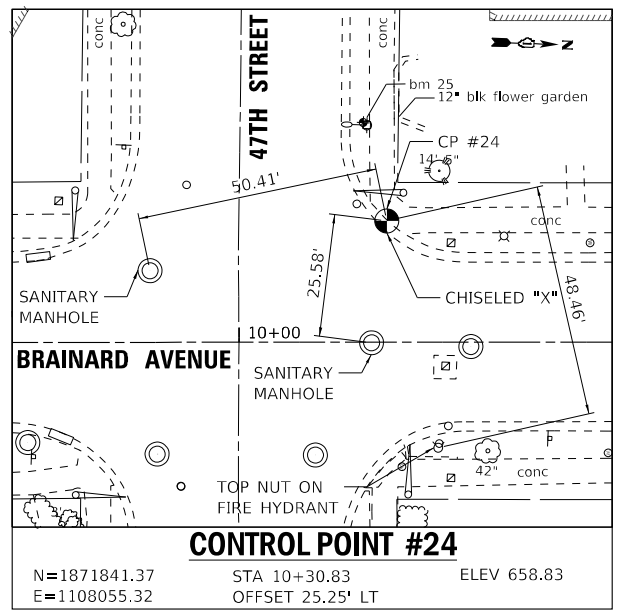
ALIGNMENT, TIES AND BENCHMARKS

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 17
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

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DRAWN	KAR	REVISOR	
PLOT SCALE	= 20.0000" / in.	CHECKED	TMS
PLOT DATE	1/29/2024	DATE	10-02-2023

REVISION		FILE	200239_SHT-Align2.dgn
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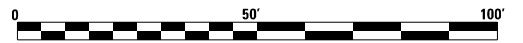
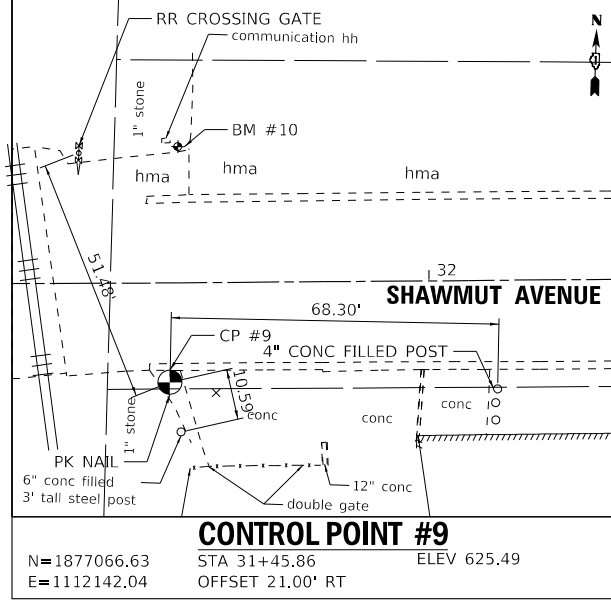
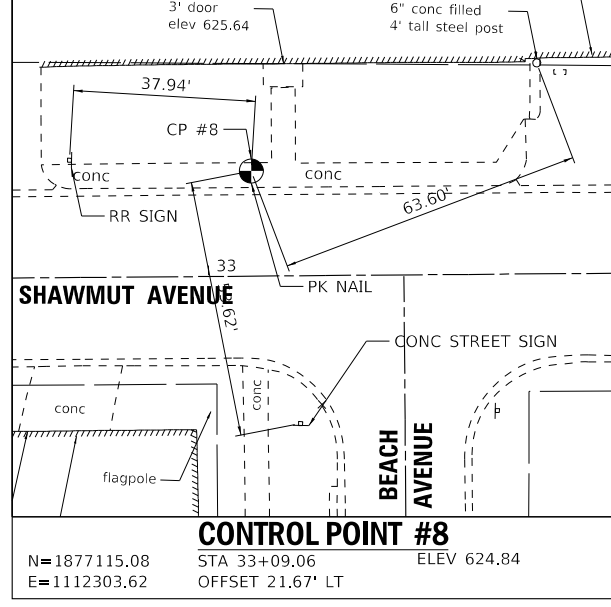
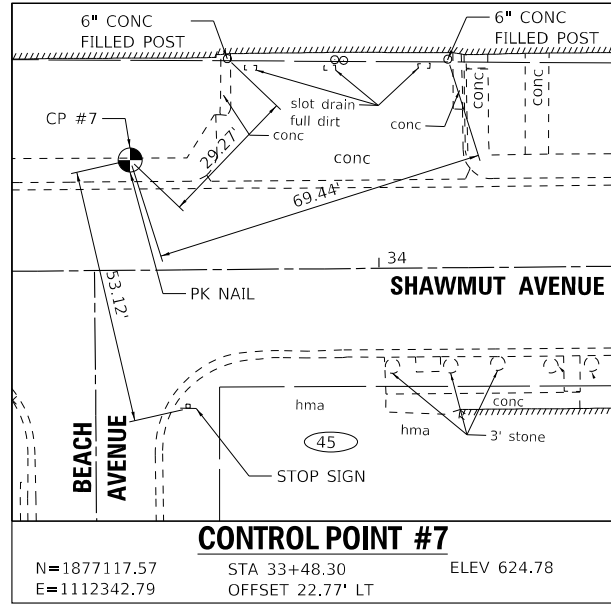
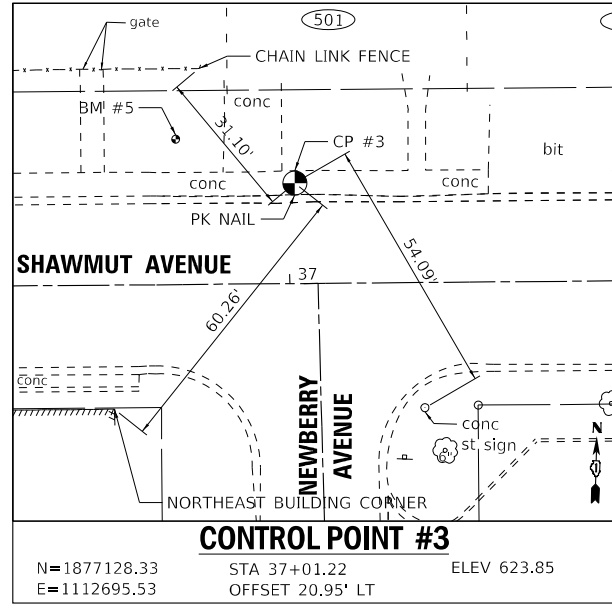
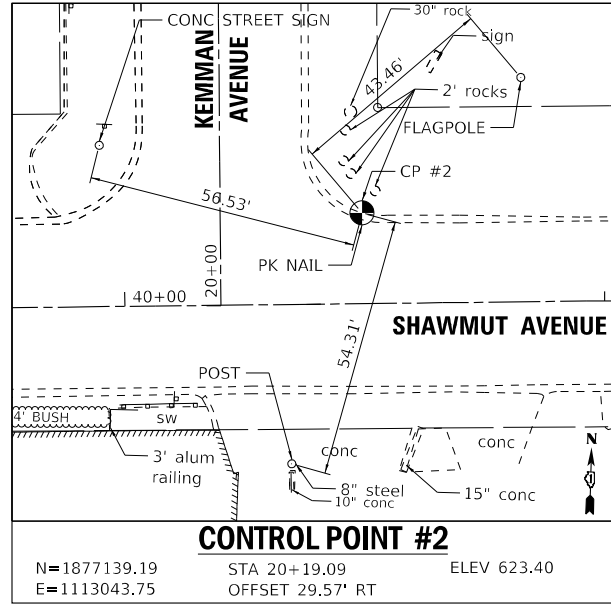
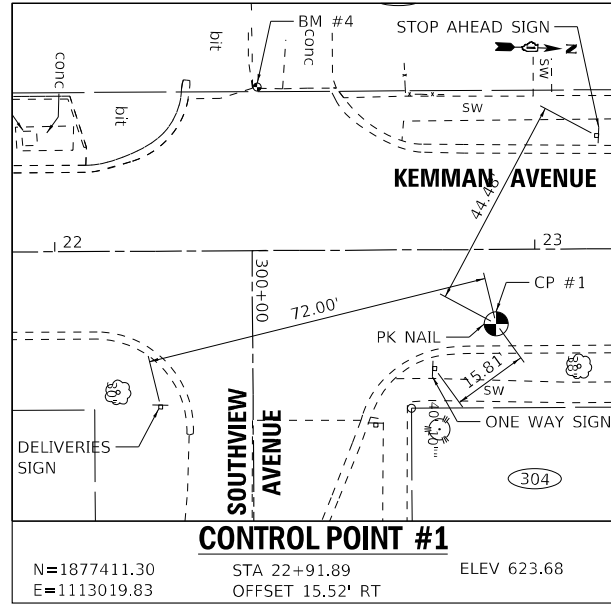
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	1" = 20'	SHEET	1	OF	2	SHEETS	STA.	TO	STA.
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TIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	18
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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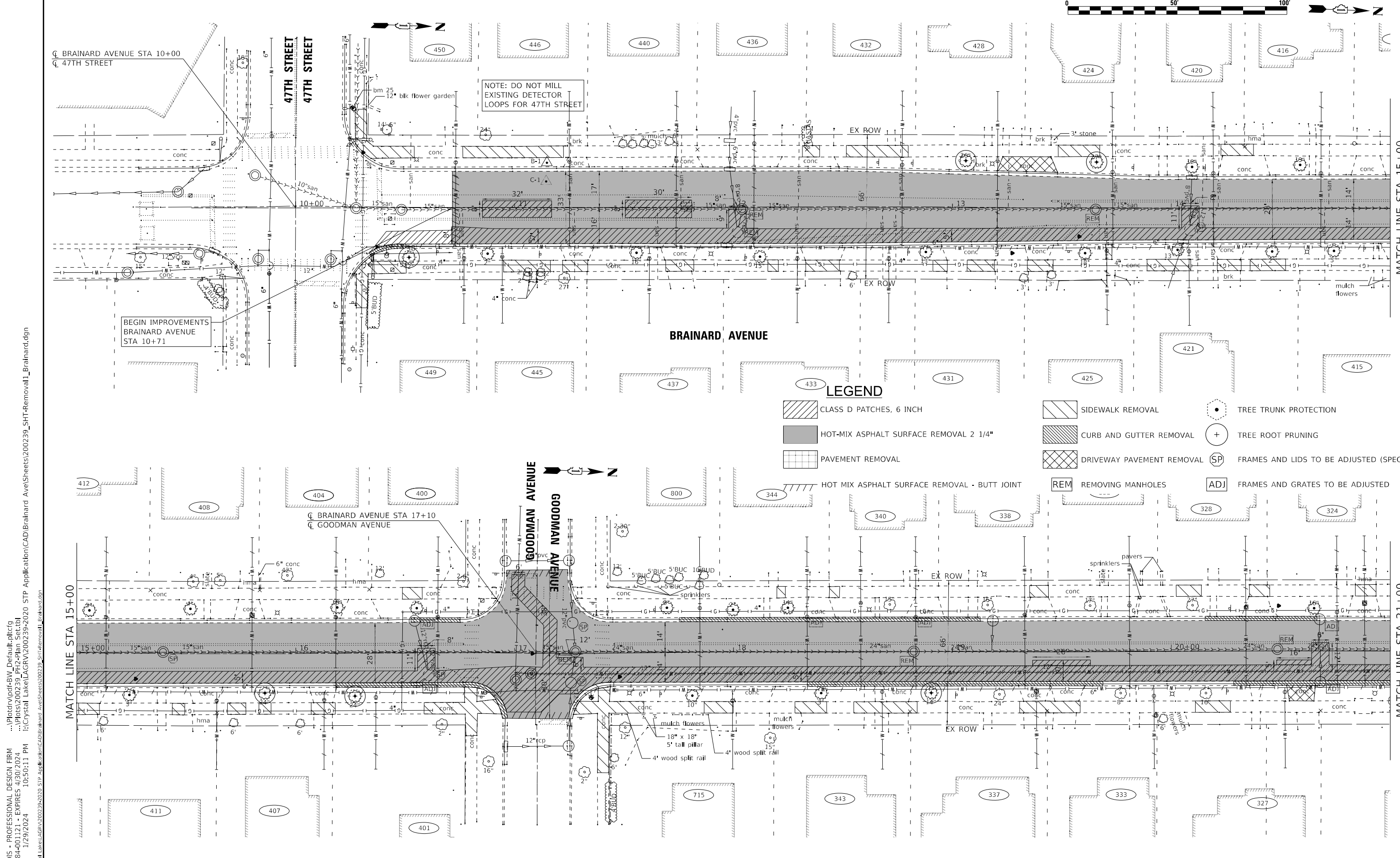
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PLOT DATE - 1/29/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'	SHEET 2 OF 2 SHEETS	STA.	TO STA.
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TIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	19
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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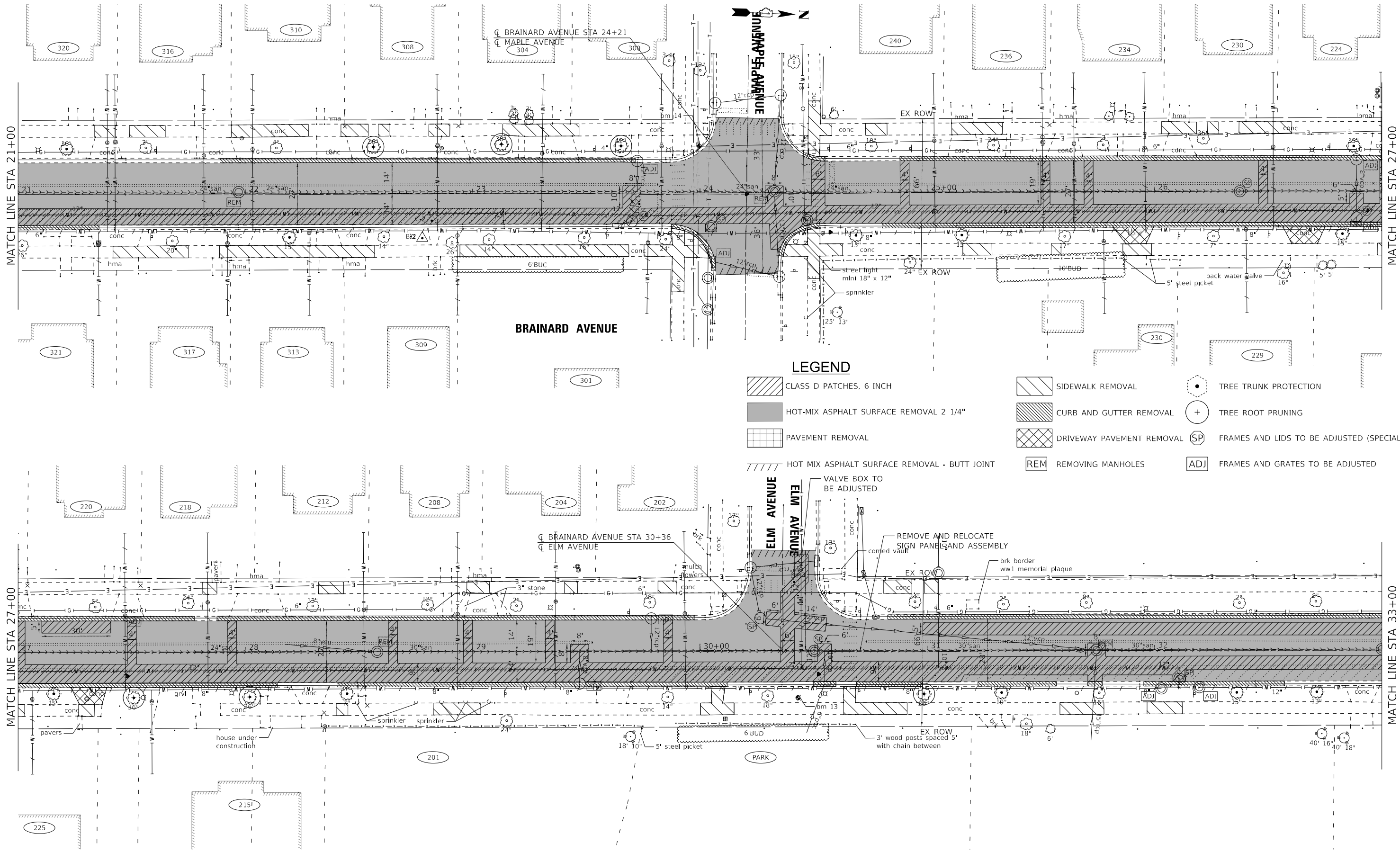


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN
BRAINARD AVENUE
 SCALE: 1"=20' SHEET 1 OF 8 SHEETS STA. 9+00 TO STA. 21+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 20
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

- CLASS D PATCHES, 6 INCH
- HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"
- PAVEMENT REMOVAL
- HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- TREE TRUNK PROTECTION
- TREE ROOT PRUNING
- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- FRAMES AND GRATES TO BE ADJUSTED
- REMOVING MANHOLES
- FRAMES AND GRATES TO BE ADJUSTED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-011211 - EXPIRES 4/30/2024
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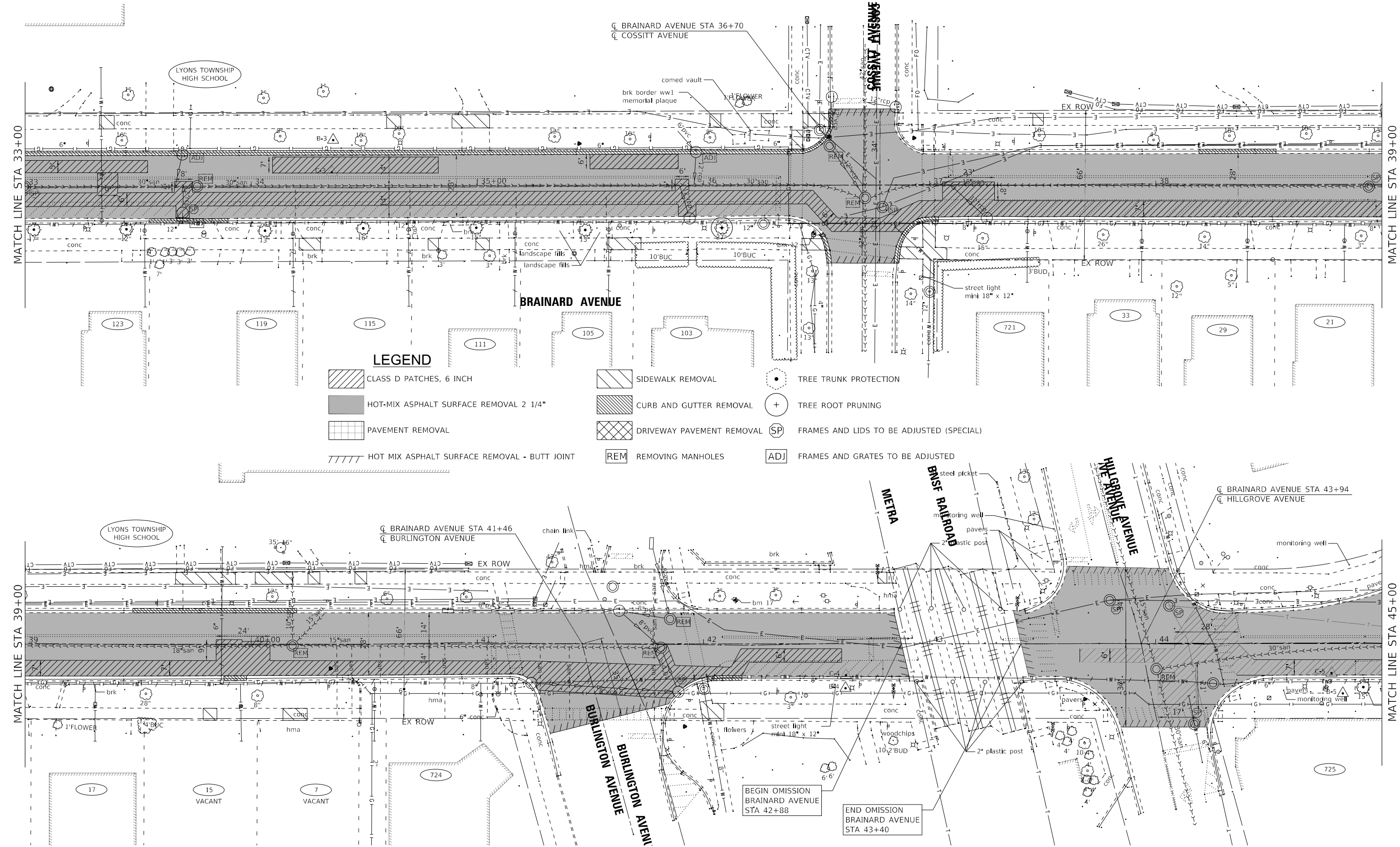


USER NAME - mimgginsom	DESIGNED - AKS	REVISED -
DRAWN - KAR	REVISED -	
CHECKED - TMS	REVISED -	
DATE - 10-02-2023	FILE - 200239_SHT-Removal2_Brainard.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN		
BRAINARD AVENUE		
SCALE: 1"=20'	SHEET 2 OF 8 SHEETS	STA. 21+00 TO STA. 33+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 21
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

	CLASS D PATCHES, 6 INCH		SIDEWALK REMOVAL		TREE TRUNK PROTECTION
	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"		CURB AND GUTTER REMOVAL		TREE ROOT PRUNING
	PAVEMENT REMOVAL		DRIVEWAY PAVEMENT REMOVAL		FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
	HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		REMOVING MANHOLES		FRAMES AND GRATES TO BE ADJUSTED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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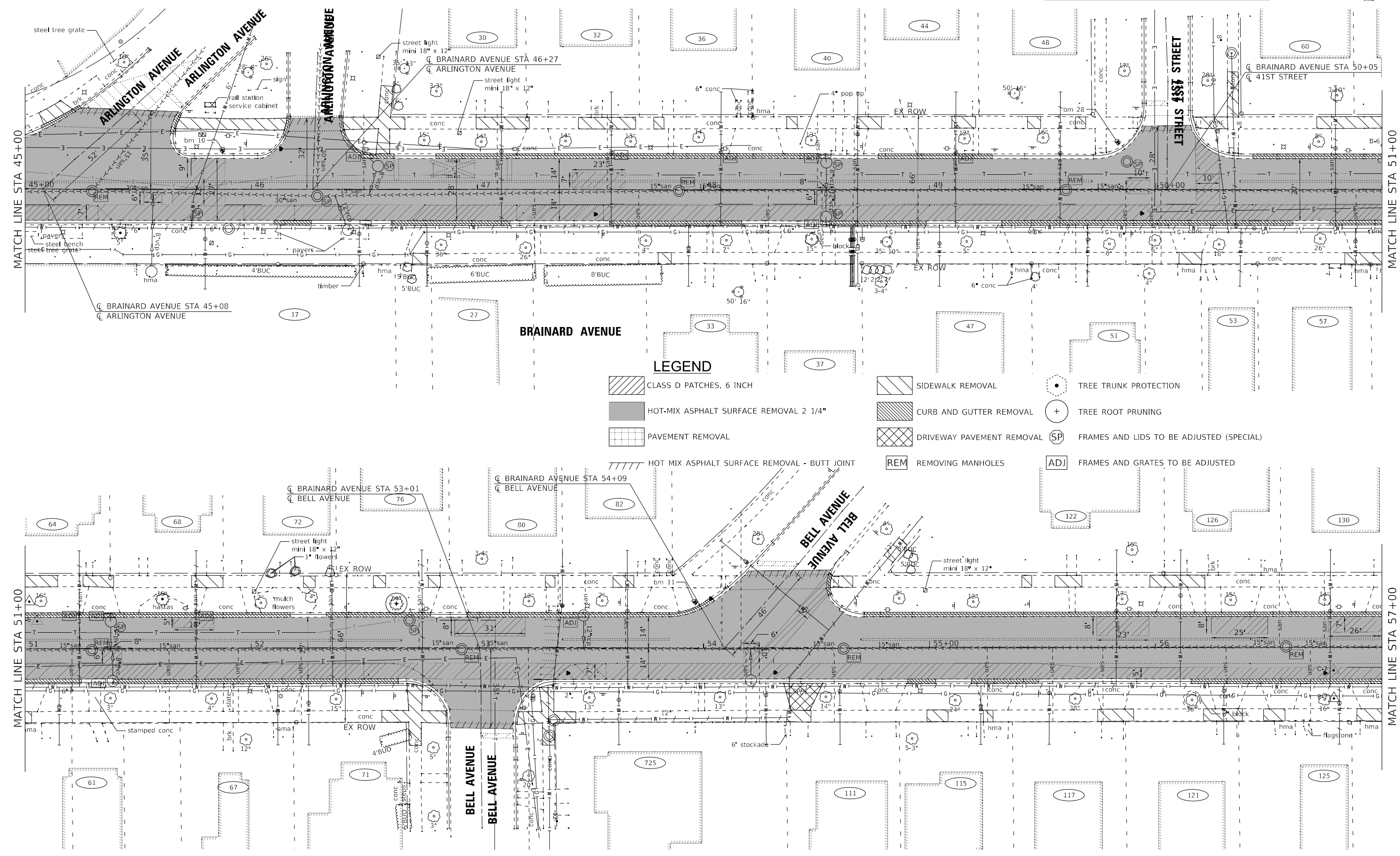


USER NAME - mimgginsom	DESIGNED - AKS	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN
BRAINARD AVENUE
 SCALE: 1"=20' SHEET 3 OF 8 SHEETS STA. 33+00 TO STA. 45+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 22
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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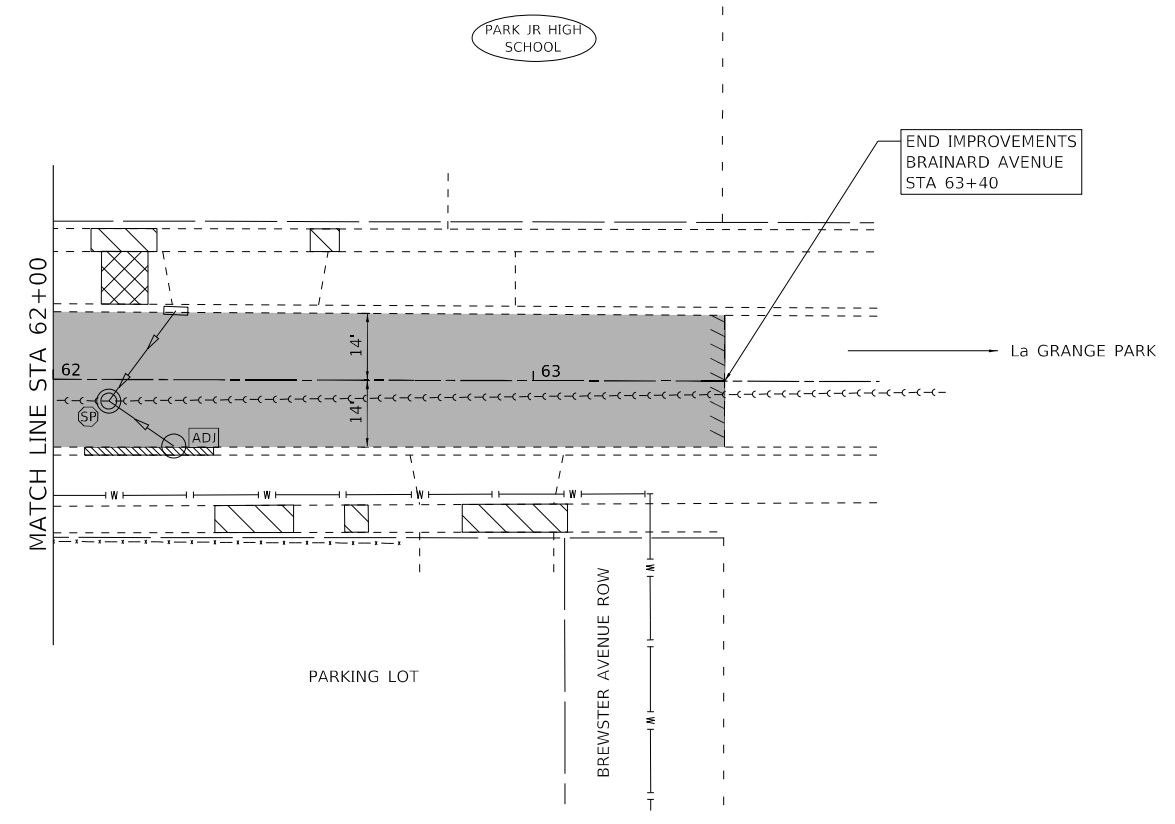
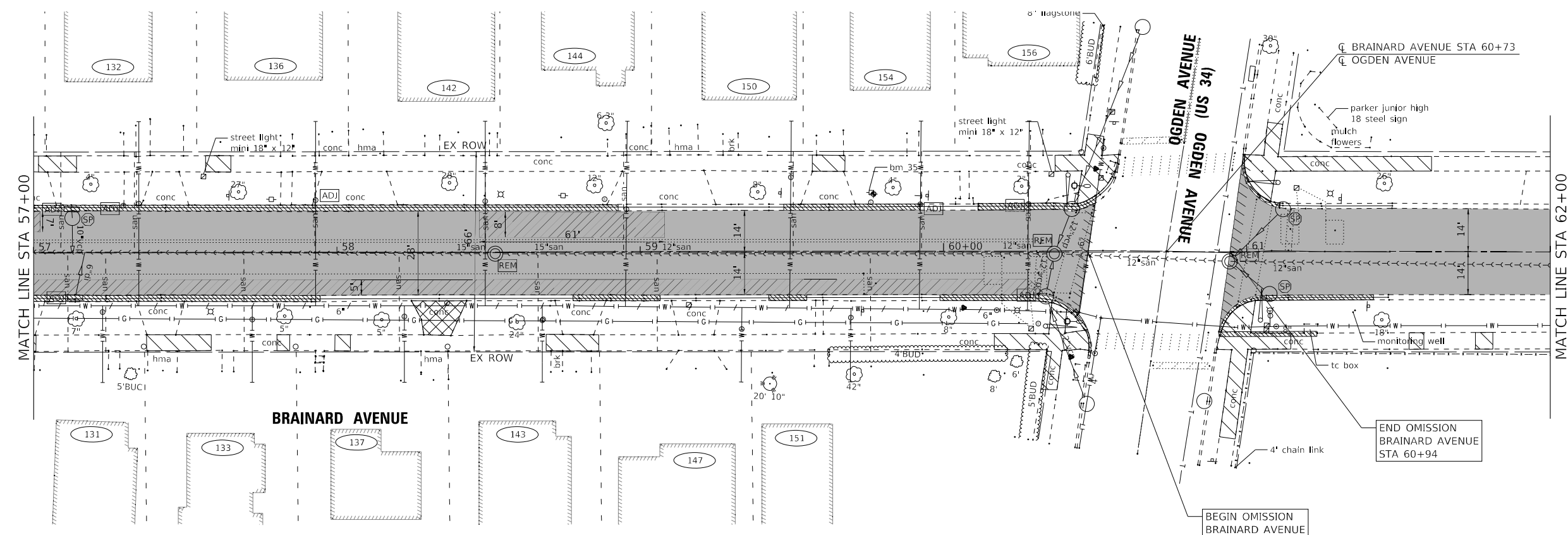


USER NAME - mimgginsan	DESIGNED - AKS	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN		
BRAINARD AVENUE		
SCALE: 1"=20'	SHEET 4 OF 8 SHEETS	STA. 45+00 TO STA. 57+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 23
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

CLASS D PATCHES, 6 INCH	SIDEWALK REMOVAL	TREE TRUNK PROTECTION
HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"	CURB AND GUTTER REMOVAL	TREE ROOT PRUNING
PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	REMOVING MANHOLES	FRAMES AND GRATES TO BE ADJUSTED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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 mimgginsom
 1/29/2024
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USER NAME - mimgginsom	DESIGNED - AKS	REVISED -
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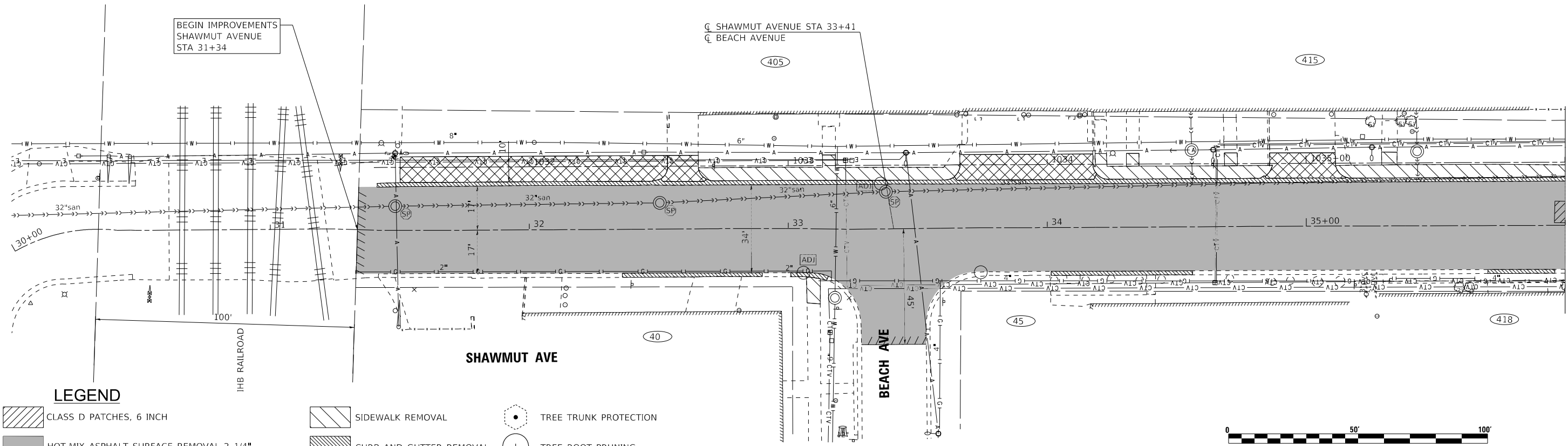
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN
BRAINARD AVENUE

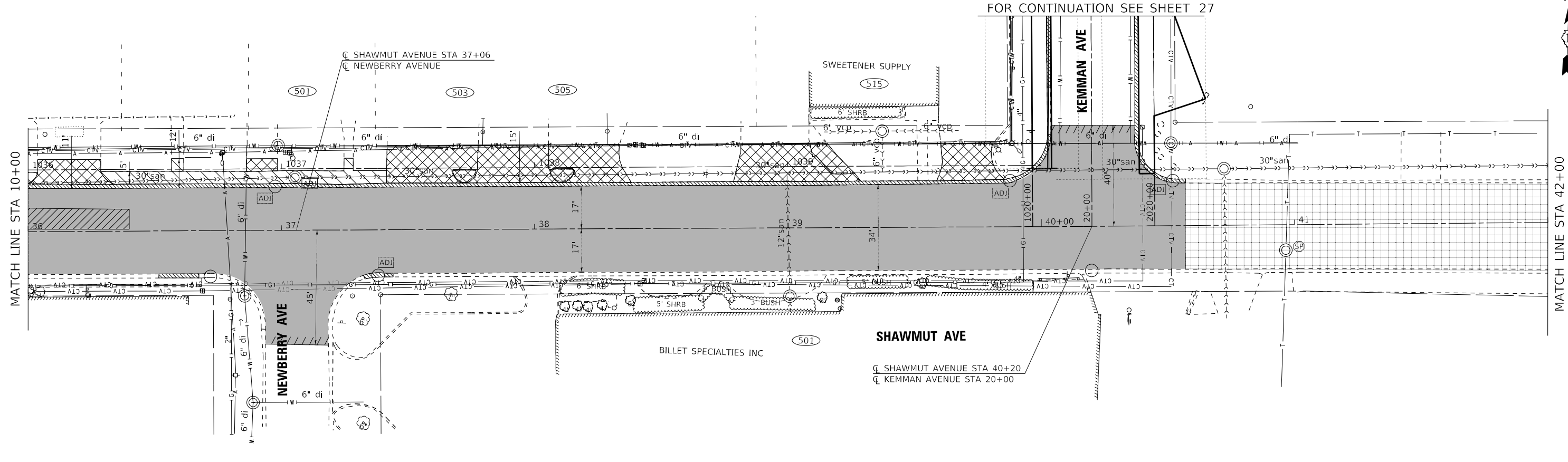
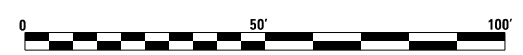
SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. 57+00 TO STA. 61+47

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 24
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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- LEGEND**
- CLASS D PATCHES, 6 INCH
 - HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"
 - PAVEMENT REMOVAL
 - HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
 - SIDEWALK REMOVAL
 - CURB AND GUTTER REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - REM REMOVING MANHOLES
 - TREE TRUNK PROTECTION
 - TREE ROOT PRUNING
 - FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - FRAMES AND GRATES TO BE ADJUSTED



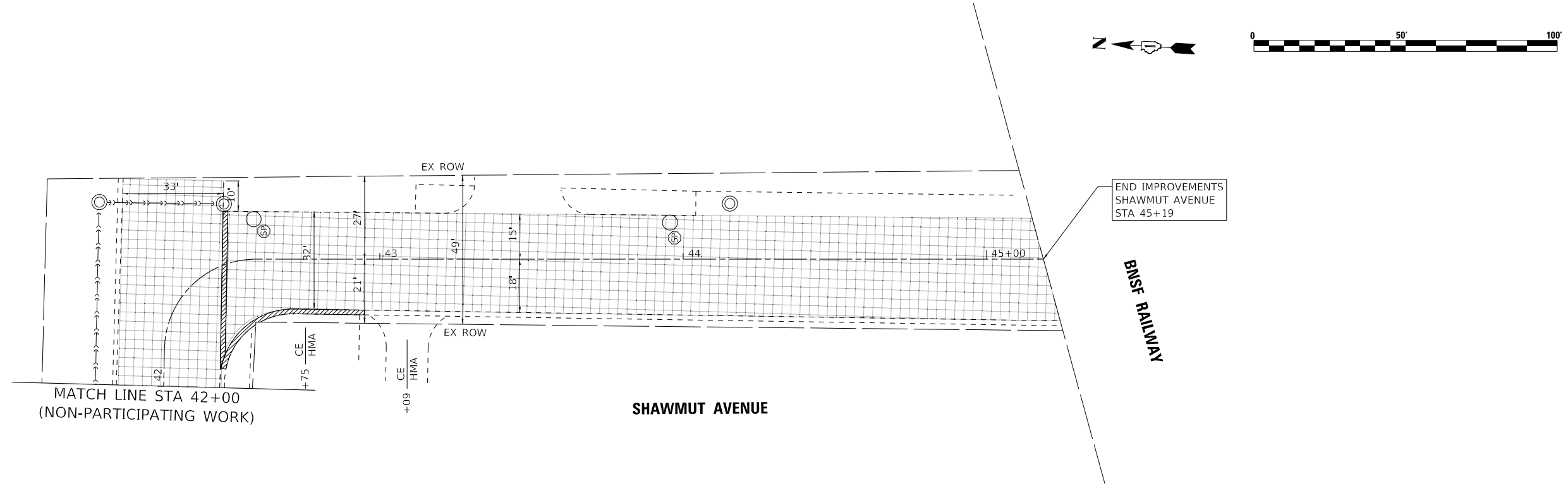
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION













EXISTING CONDITIONS AND REMOVAL PLAN
SHAWMUT AVENUE
 SCALE: 1" = 20'
 SHEET 6 OF 8 SHEETS STA. 30+00 TO STA. 42+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 25
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

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LEGEND

 CLASS D PATCHES, 6 INCH	 SIDEWALK REMOVAL	 TREE TRUNK PROTECTION
 HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"	 CURB AND GUTTER REMOVAL	 TREE ROOT PRUNING
 PAVEMENT REMOVAL	 DRIVEWAY PAVEMENT REMOVAL	 FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	 REMOVING MANHOLES	 FRAMES AND GRATES TO BE ADJUSTED



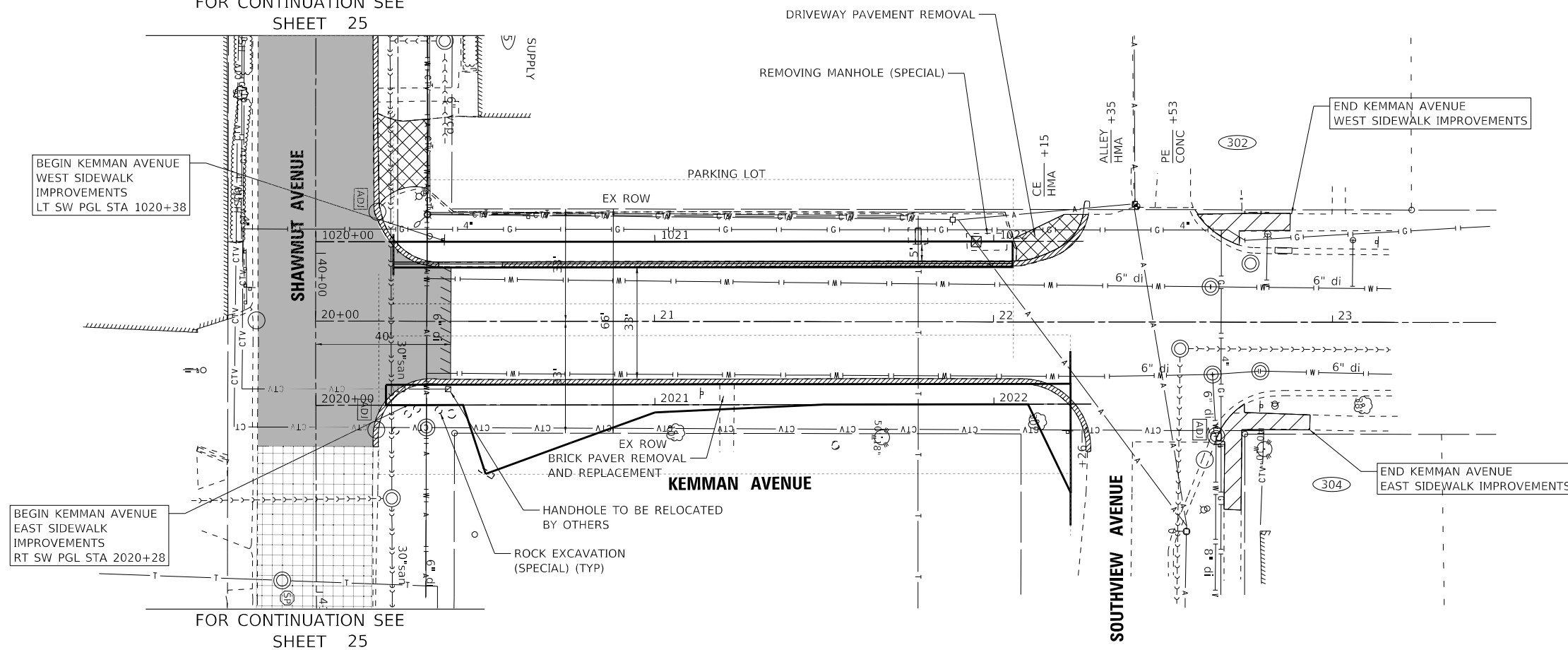
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN			
SHAWMUT AVENUE			
SCALE: 1"=20'	SHEET 7 OF 8 SHEETS	STA. 42+00 TO STA. 45+19	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	26
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

FOR CONTINUATION SEE SHEET 25



FOR CONTINUATION SEE SHEET 25

LEGEND

- CLASS D PATCHES, 6 INCH
- HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"
- PAVEMENT REMOVAL
- HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- REMOVING MANHOLES
- TREE TRUNK PROTECTION
- TREE ROOT PRUNING
- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- FRAMES AND GRATES TO BE ADJUSTED

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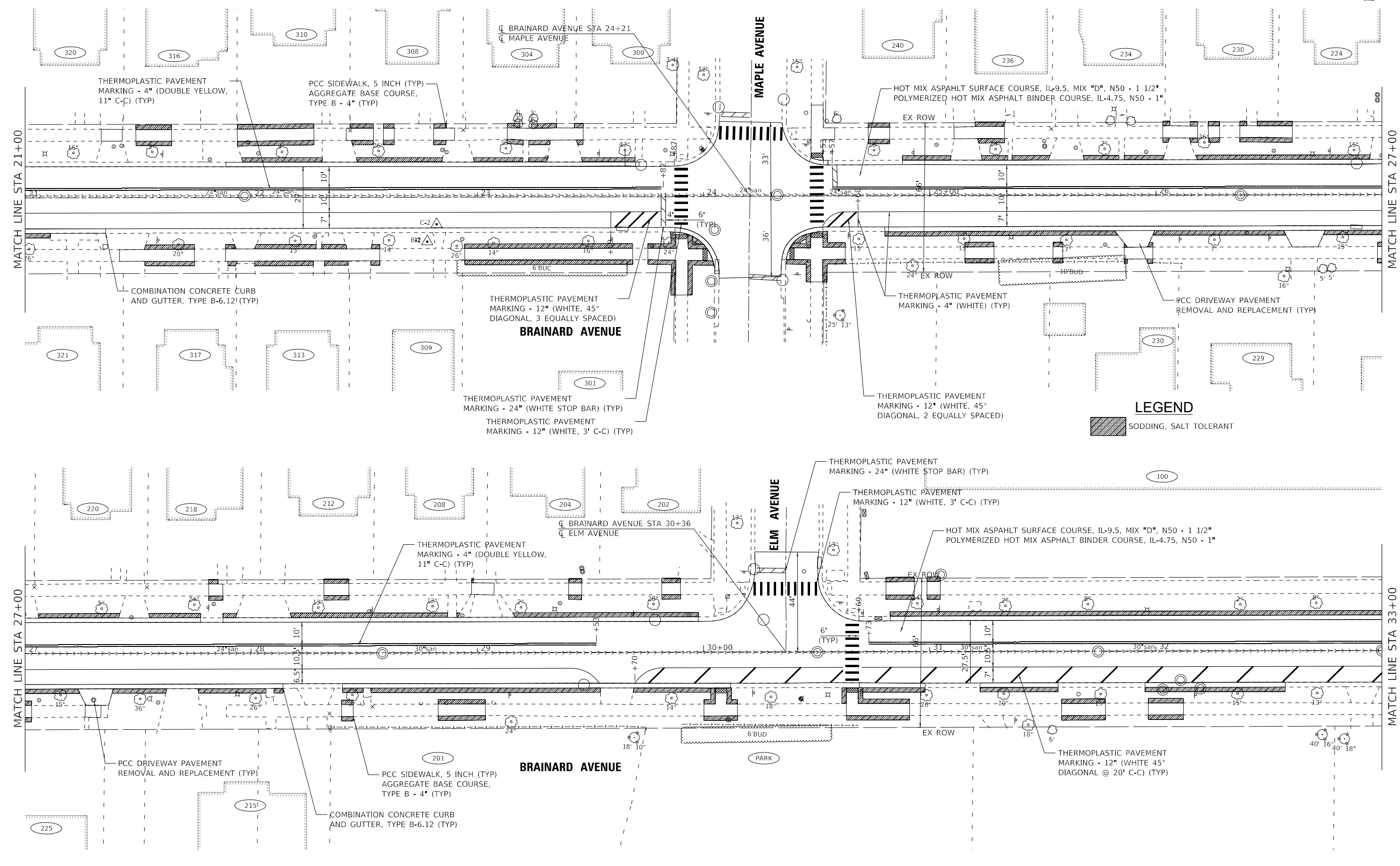
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN
KEMMAN AVENUE

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 27
CONTRACT NO. 61K11				ILLINOIS FED. AID PROJECT C16E(520)



LEGEND

 SODDING, SALT TOLERANT

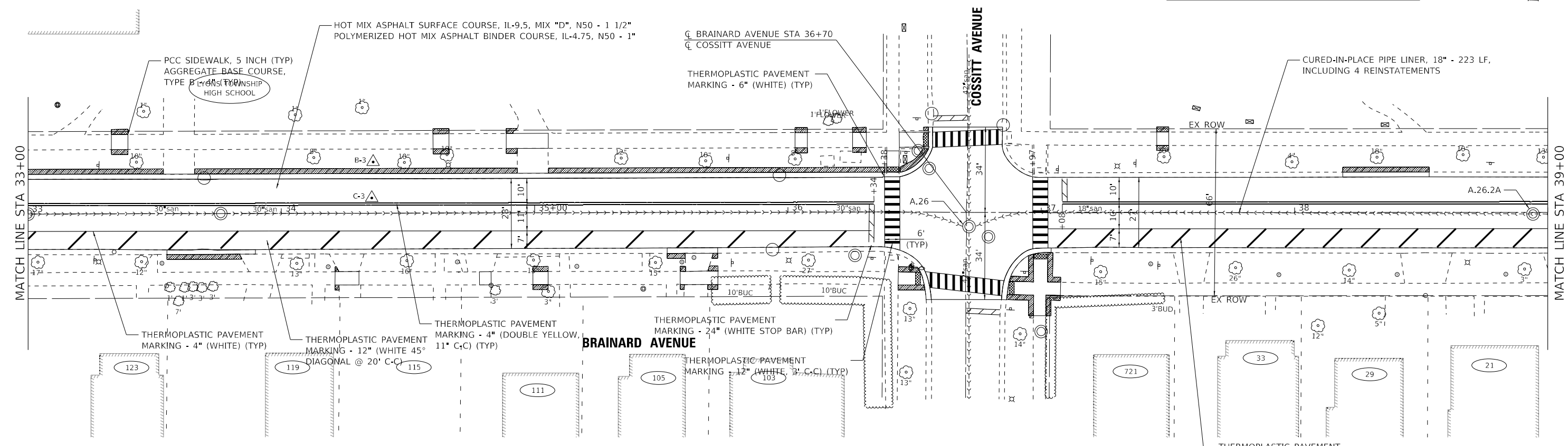
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BAXTER & WOODMAN Consulting Engineers	USER NAME - mimgginsom	DESIGNED - AKS	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

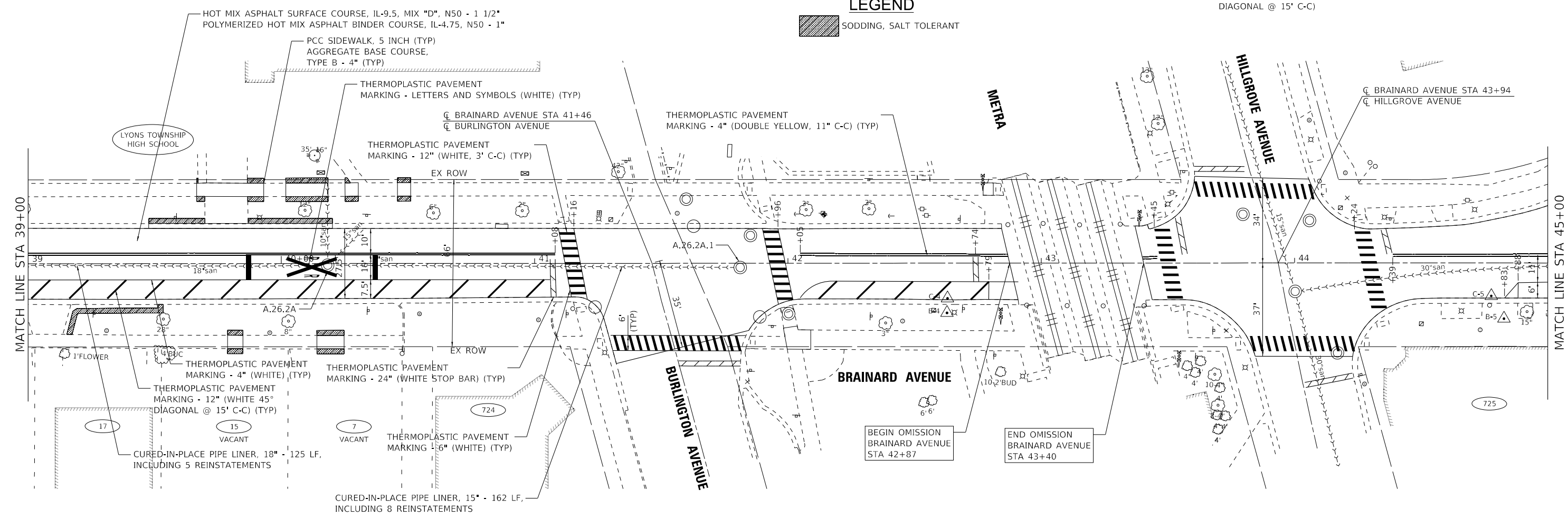
ROADWAY AND UTILITY PLAN
BRAINARD AVENUE
 SCALE: 1"=20' SHEET 2 OF 5 SHEETS STA. 21+00 TO STA. 33+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 29
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

SODDING, SALT TOLERANT



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

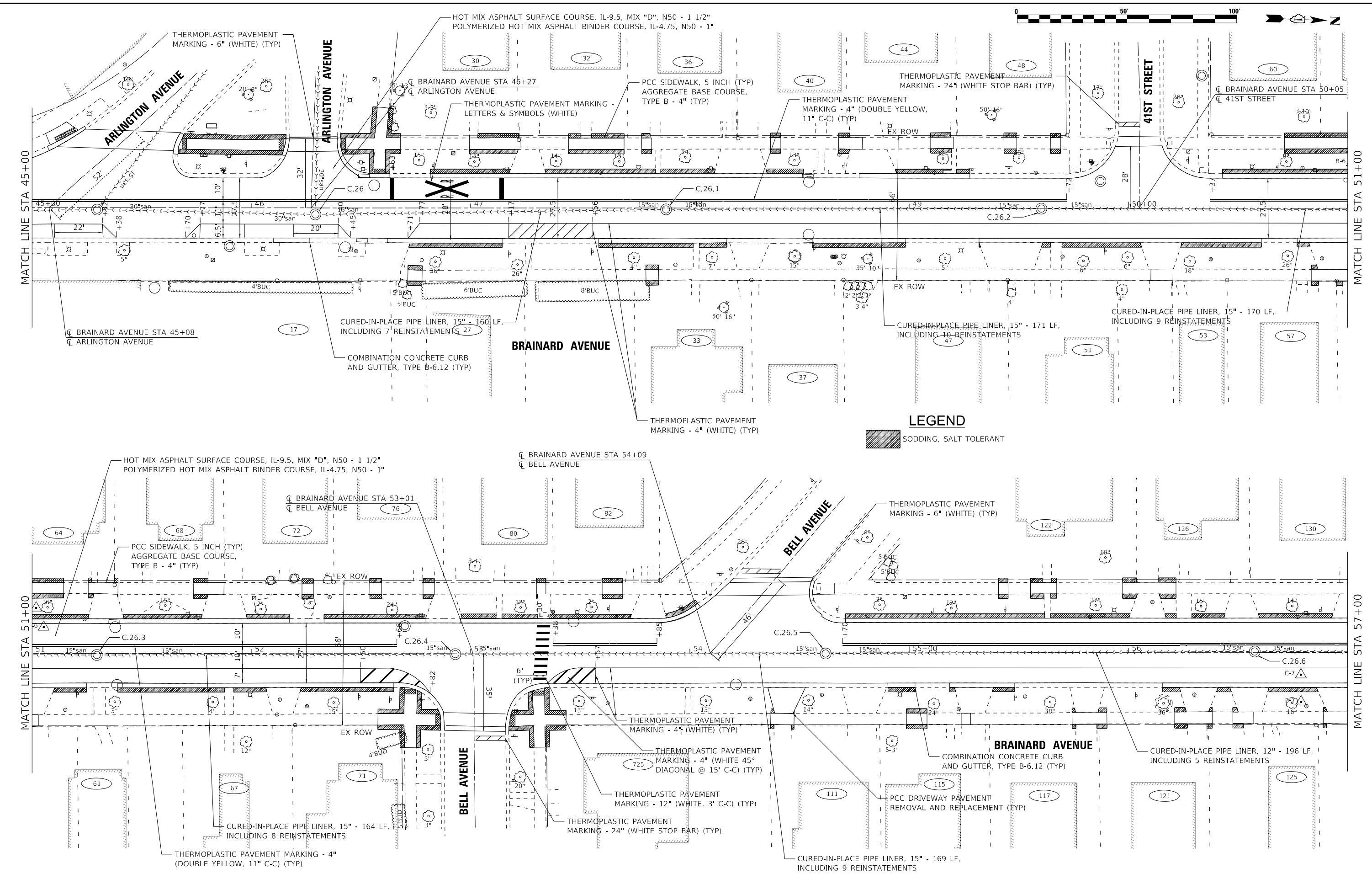
ROADWAY AND UTILITY PLAN

BRAINARD AVENUE

SCALE: 1"=20'

SHEET 3 OF 5 SHEETS STA. 33+00 TO STA. 45+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 30
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

SODDING, SALT TOLERANT

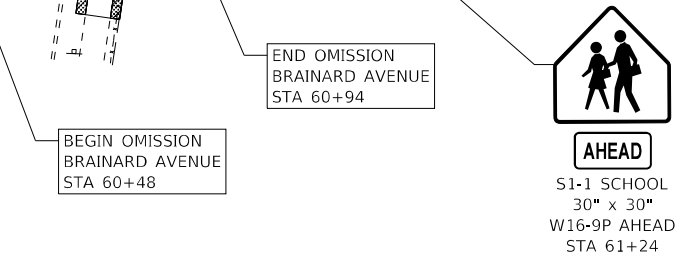
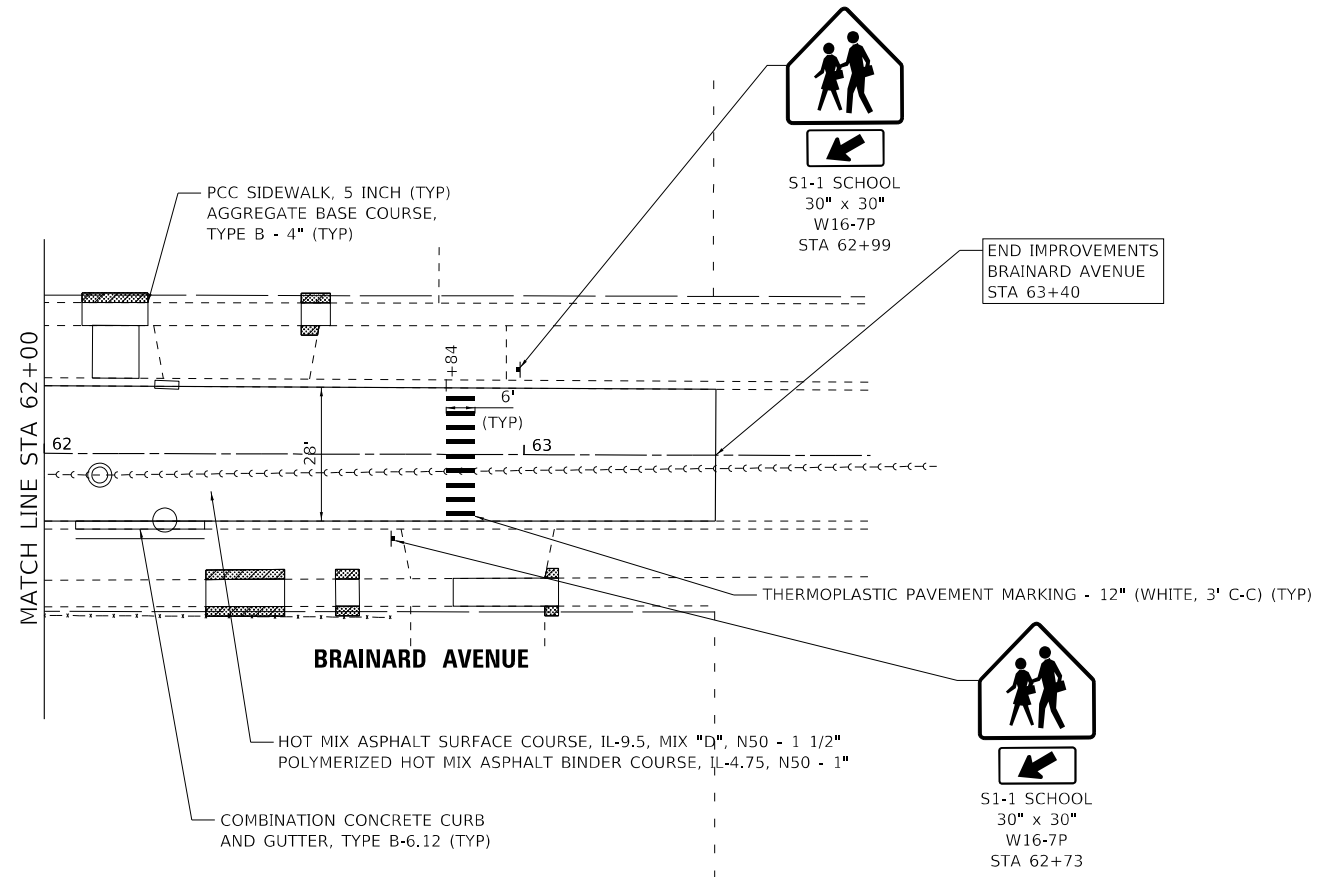
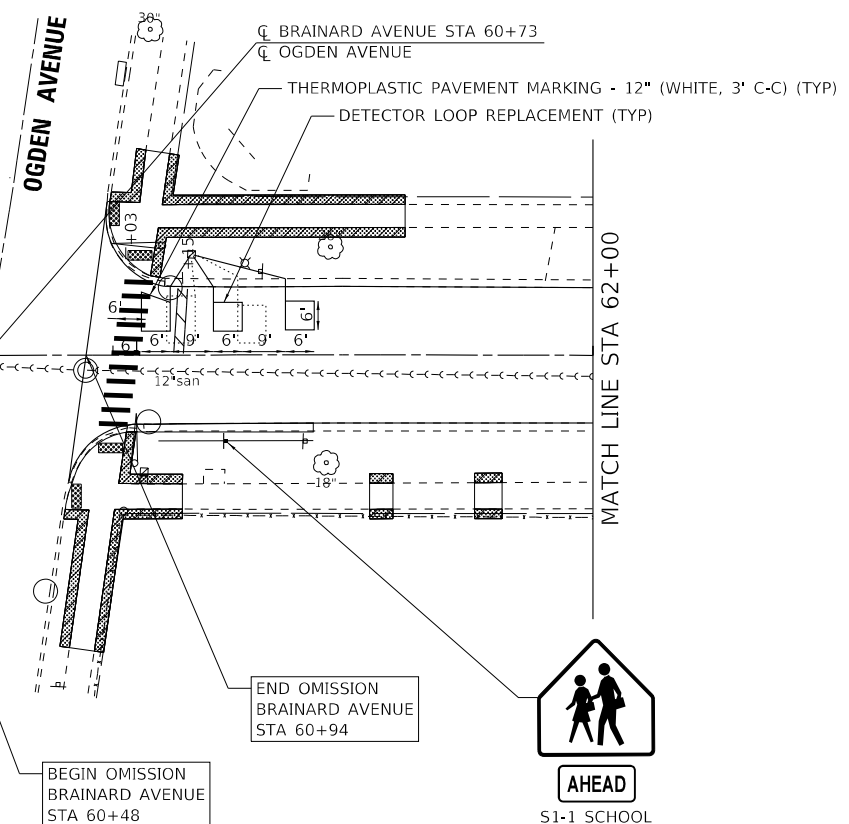
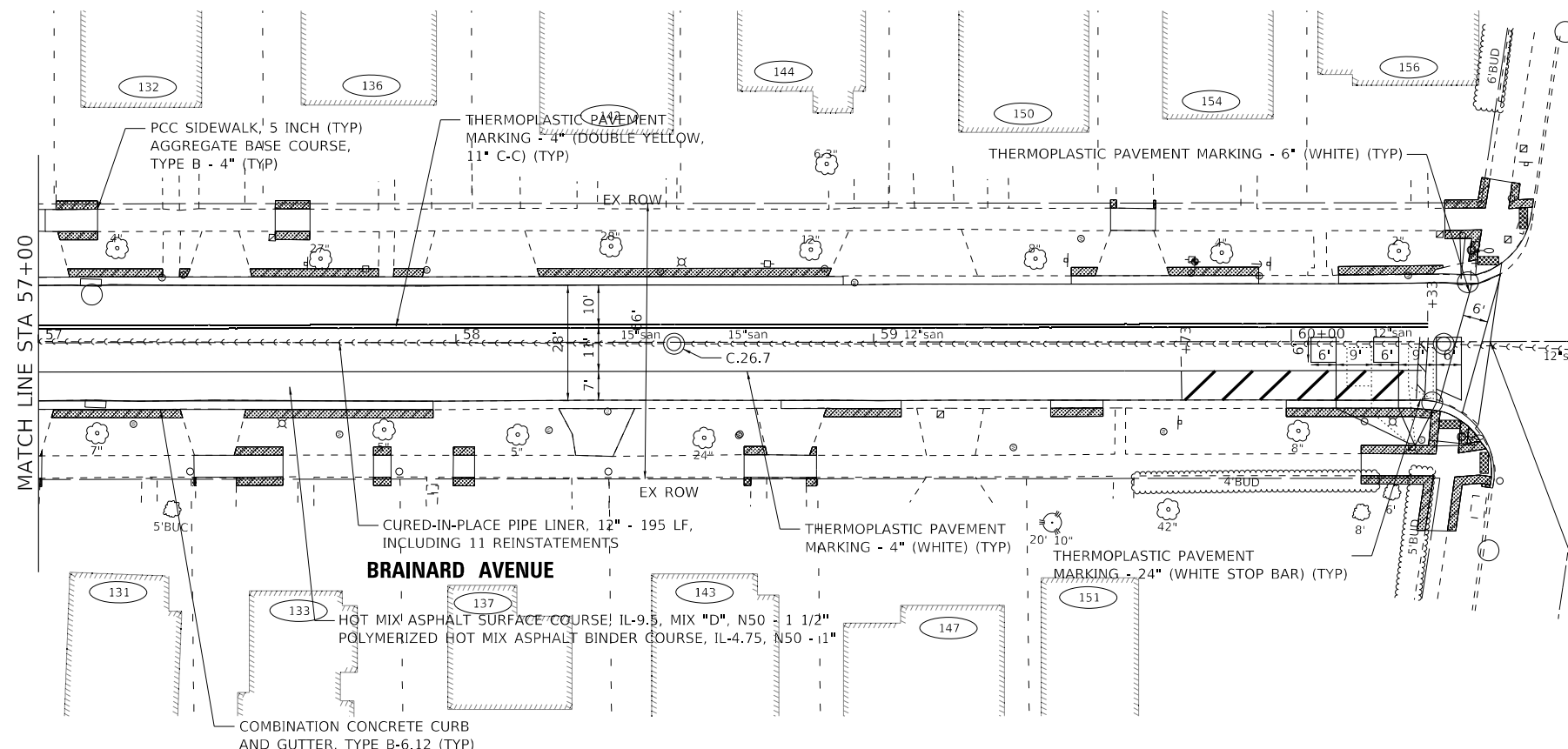
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN	
BRAINARD AVENUE	
SCALE: 1"=20'	SHEET 4 OF 5 SHEETS
STA. 45+00	TO STA. 57+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 31
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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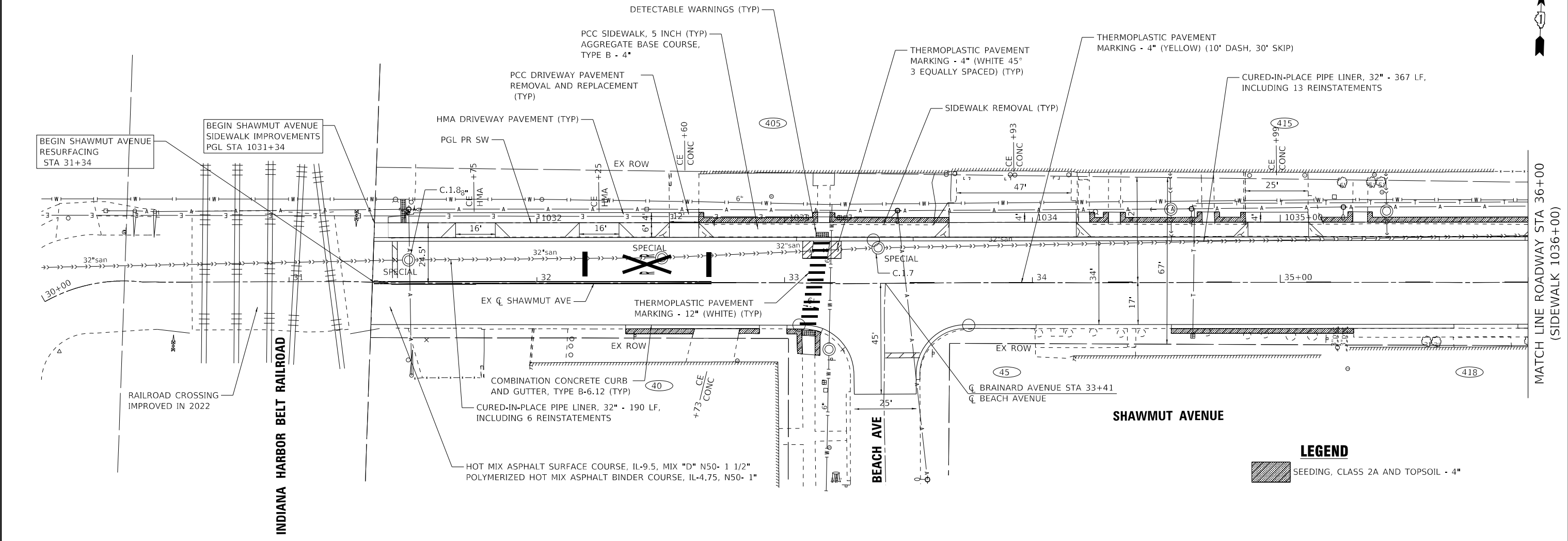
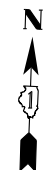
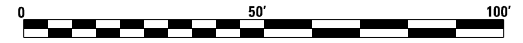
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN BRAINARD AVENUE	
SCALE: 1"=20'	SHEET 5 OF 5 SHEETS
STA. 57+00	TO STA. 61+47

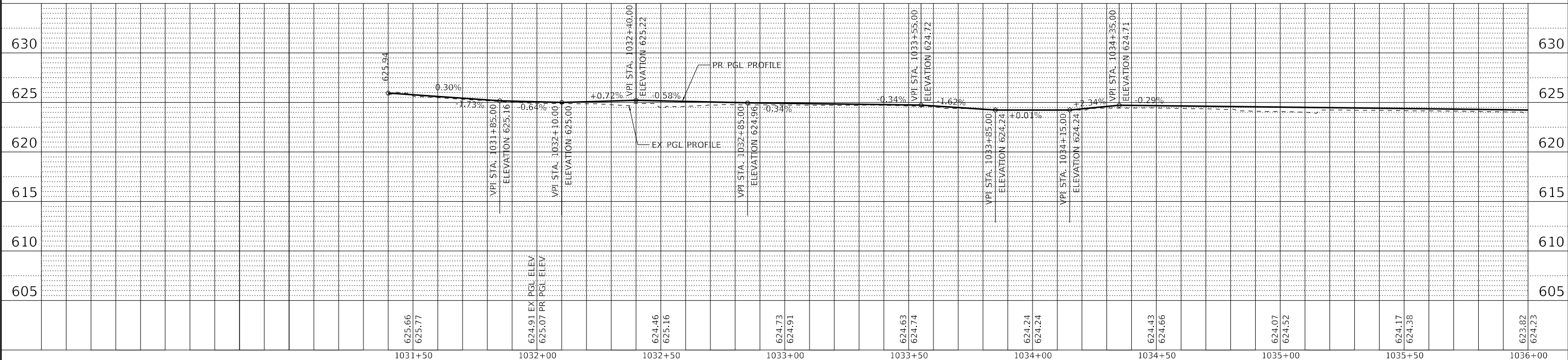
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CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

NOTE: STATIONING FOR ROADWAY CENTERLINE AND SIDEWALK PGL.



LEGEND

SEEDING, CLASS 2A AND TOPSOIL - 4"



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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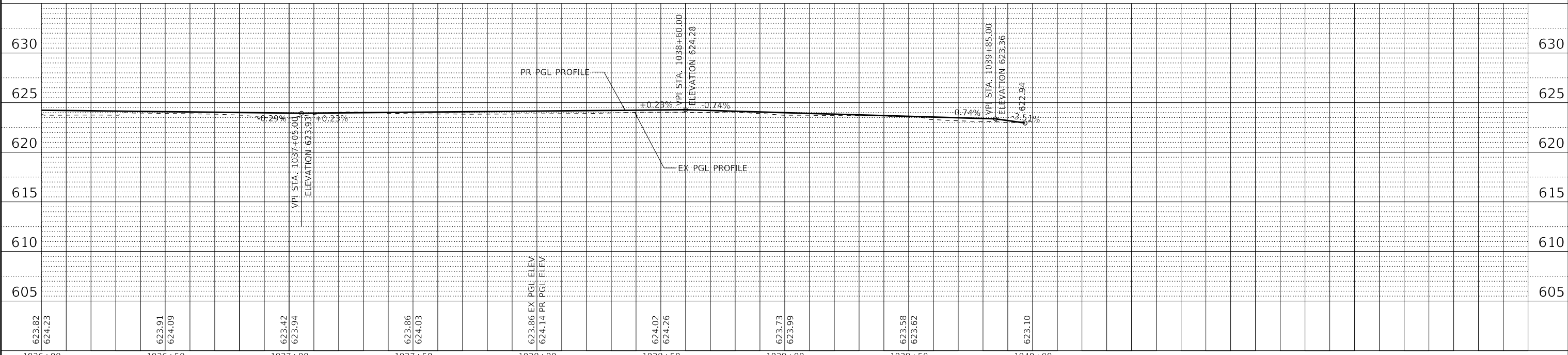
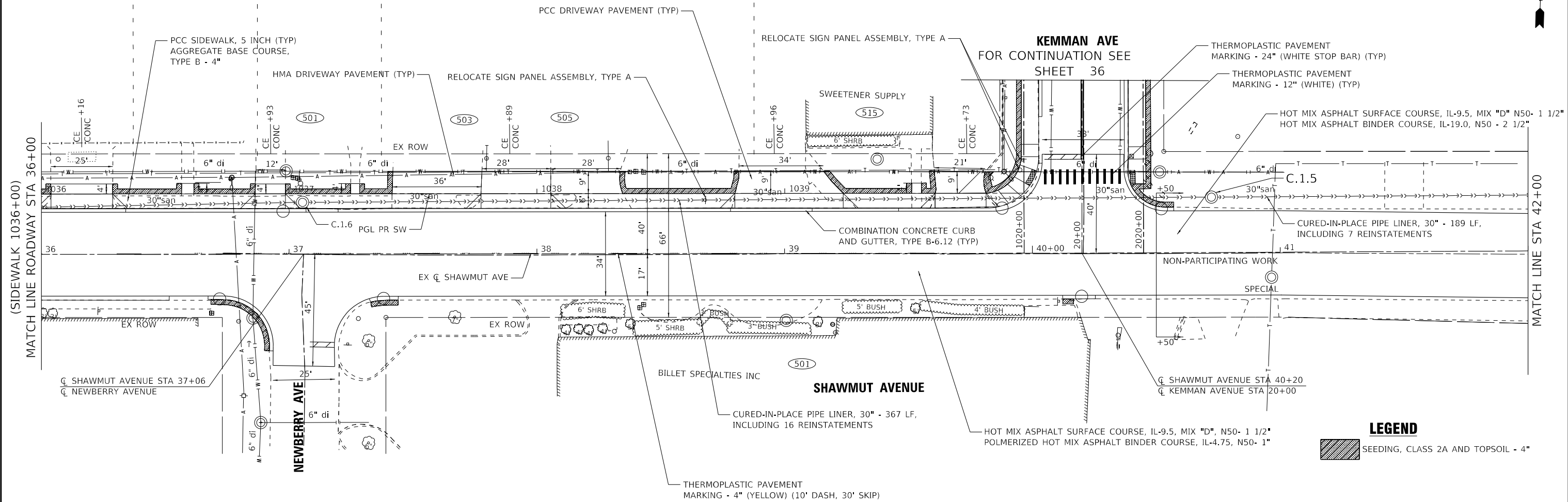
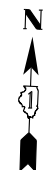
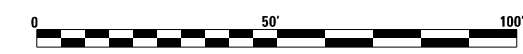


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE	
SHAWMUT AVENUE SIDEWALK	
SCALE: H: 1"=20' V: 1"=5'	SHEET 1 OF 2 SHEETS
STA. 1031+34 TO STA. 1036+00	

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 33
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



LEGEND

	SEEDING, CLASS 2A AND TOPSOIL - 4"
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

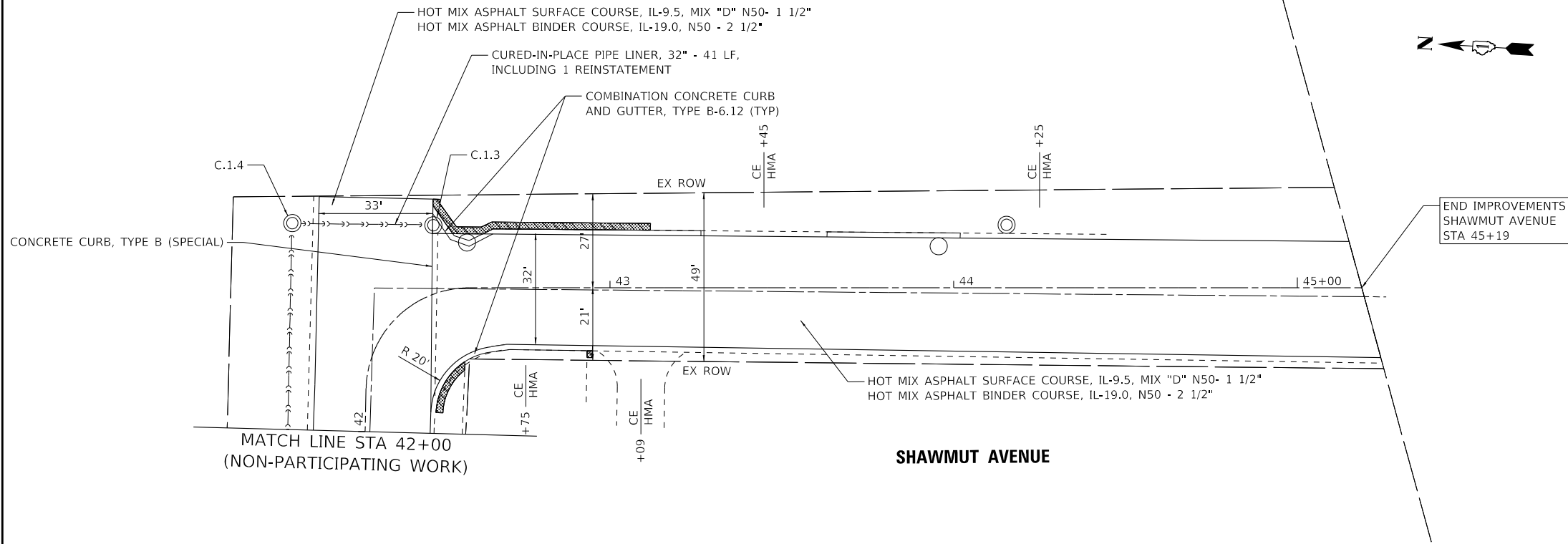
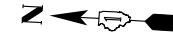
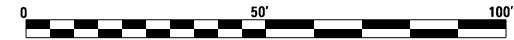
PLAN AND PROFILE

SHAWMUT AVENUE SIDEWALK

SCALE: H: 1" = 20' V: 1" = 5'

SHEET 2 OF 2 SHEETS STA. 1036+00 TO STA. 42+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 34
CONTRACT NO. 61K11			ILLINOIS FED. AID PROJECT C16E(520)	



LEGEND

SEEDING, CLASS 2A AND TOPSOIL - 4"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN	
SHAWMUT AVENUE	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS
STA. 42+00	TO STA. 45+19

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	35
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(S20)				

FOR CONTINUATION SEE SHEET 33



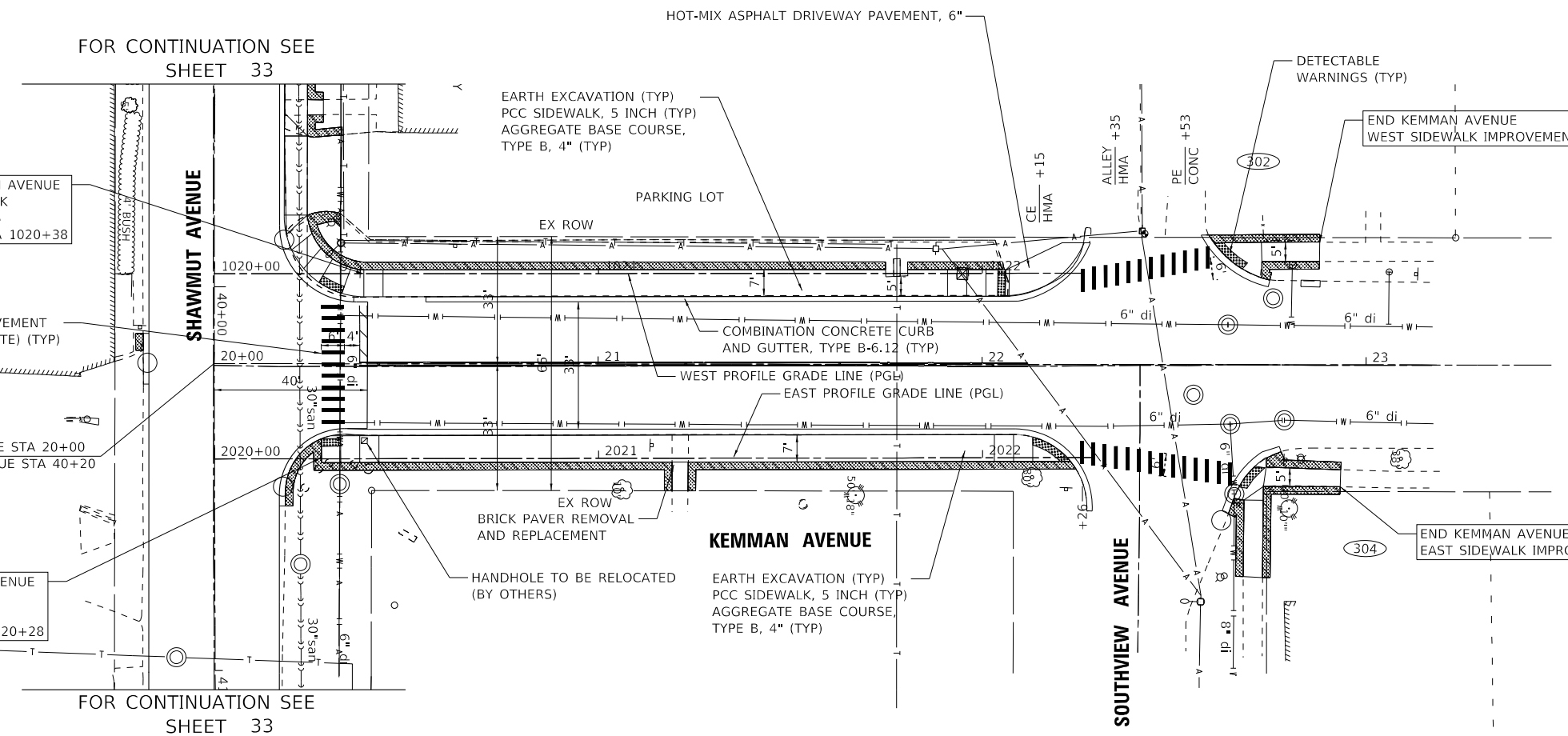
BEGIN KEMMAN AVENUE WEST SIDEWALK IMPROVEMENTS LT SW PGL STA 1020+38

THERMOPLASTIC PAVEMENT MARKING - 12" (WHITE) (TYP)

☐ KEMMAN AVENUE STA 20+00
☐ SHAWMUT AVENUE STA 40+20

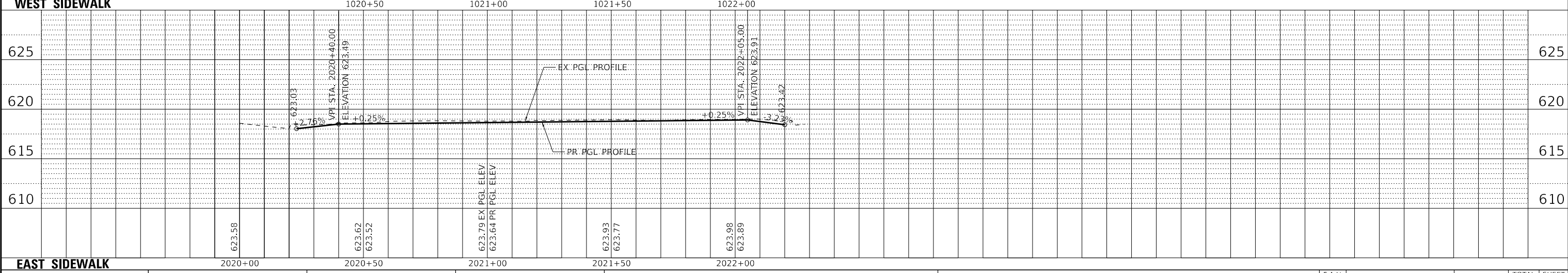
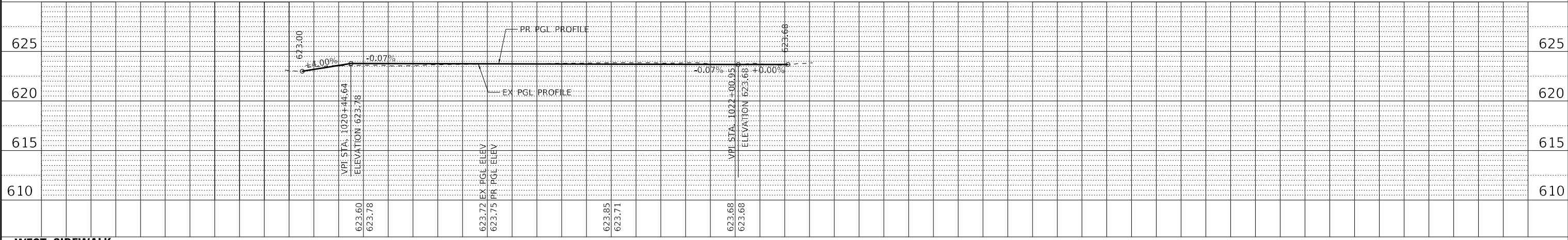
BEGIN KEMMAN AVENUE EAST SIDEWALK IMPROVEMENTS RT SW PGL STA 2020+28

FOR CONTINUATION SEE SHEET 33



LEGEND

SODDING, SALT TOLERANT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
KEMMAN AVENUE
 SCALE: H: 1"=20' V: 1"=5' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 36
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C16E(520)		
CONTRACT NO. 61K11				

MAINTENANCE OF TRAFFIC NOTES

1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED OR ON-STREET PARKING WILL BE RESTRICTED DUE TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURES AND RESTRICTIONS. EVERY EFFORT SHALL BE MADE TO NOTIFY RESIDENTS INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12' CLEAR WIDTH ROADWAY FOR EACH DIRECTION. INGRESS AND EGRESS TO DRIVEWAYS AND SIDE STREETS SHALL BE MAINTAINED.
3. RESTRICTIONS TO ON-STREET PARKING WILL BE ALLOWED ONLY ON ONE SIDE OF THE STREET AT A TIME UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
5. CURB AND GUTTER MUST BE REMOVED AND REPLACED PRIOR TO MILLING OF EXISTING ASPHALT PAVEMENT.
6. BARRICADES AND DRUMS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS EXCEPT WHEN FLASHING LIGHTS ARE SPECIFIED BY THE HIGHWAY STANDARDS OR DETAIL DRAWINGS. BARRICADES AND DRUMS SHALL BE PLACED AT NO GREATER THAN 50' INTERVALS ALONG THE PROPOSED WORK ZONE AND 25' WITHIN TAPERED SECTIONS OR AS DIRECTED BY THE ENGINEER.
7. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT EMERGENCY SERVICES.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS AND SIDE ROADS DURING CONSTRUCTION.
9. ALL COMMERCIAL PROPERTIES AND SCHOOLS SHALL BE PROVIDED AT LEAST ONE INGRESS AND ONE EGRESS EITHER ON THE MAINLINE OR A SIDE STREET AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES/MODIFICATIONS WITH THE LOCAL BUSINESSES AND SCHOOLS AND THE ENGINEER. COMMERCIAL DRIVEWAYS WHICH CANNOT BE CLOSED, AS DETERMINED BY THE ENGINEER, SHALL BE CONSTRUCTED IN STAGES OR WILL BE CONSTRUCTED WHEN BUSINESSES AND SCHOOLS ARE NOT OPEN USING HIGH EARLY STRENGTH CONCRETE.
10. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK AT THE PRECONSTRUCTION CONFERENCE FOR REVIEW AND APPROVAL. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO RESIDENTS AND BUSINESSES AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.
11. ACCESS FOR LOCAL TRAFFIC, MAIL SERVICE, AND GARBAGE SERVICE SHALL BE MAINTAINED AT ALL TIMES.
12. RESIDENTS SHALL HAVE ACCESS TO THEIR DRIVEWAYS AT THE END OF EACH DAY (EXCEPT DURING CONCRETE CURING TIME).
13. ALL STREETS SHALL BE OPEN TO TWO-WAY TRAFFIC AT THE END OF EACH DAY.
14. NO TRENCHES, HOLES, AND PITS SHALL REMAIN EXCAVATED EXCEPT DURING ACTUAL CONSTRUCTION THERE IN.
15. THE HMA BINDER COURSE SHALL BE INSTALLED WITHIN 10 DAYS OF HMA REMOVAL.
16. EXECUTION OF THE BRAINARD AVENUE PORTION OF THIS PROJECT MUST BE COMPLETED IN THE SUMMER OF 2024 WHILE NEIGHBORHOOD SCHOOLS ARE NOT IN SESSION. THE WORK ON BRAINARD AVENUE CANNOT START EARLIER THAN JUNE 3, 2024. THE SEGMENT FROM W. 41ST STREET TO MAPLE AVENUE ALONG BRAINARD AVENUE MUST TO BE ACCESSIBLE TO LOCAL TRAFFIC BY AUGUST 16, 2024 TO ACCOMMODATE SCHOOL TRAFFIC.

SUGGESTED SEQUENCE OF CONSTRUCTION

PRIOR TO CONSTRUCTION

1. ESTABLISH TRAFFIC CONTROL ITEMS.
2. ESTABLISH TREE PROTECTION.

CONSTRUCTION

1. REMOVE AND REPLACE CURB & GUTTER AND SIDEWALK.
2. COMPLETE LANDSCAPING AND RESTORATION ITEMS
3. ADJUST STRUCTURES IN PAVEMENT RESURFACING AREA.
4. MILL PAVEMENT.
5. COMPLETE CLASS D PATCHES FOR ROADWAY AND OVER UTILITY TRENCHES.
6. COMPLETE CONSTRUCTION OF DRAINAGE STRUCTURES, SEWER LINING, CURB & GUTTER AND PAVEMENT PATCHING.
7. COMPLETE HMA PAVING.
8. INSTALL REQUIRED PAVEMENT MARKINGS.
9. COMPLETE PUNCH LIST ITEMS.

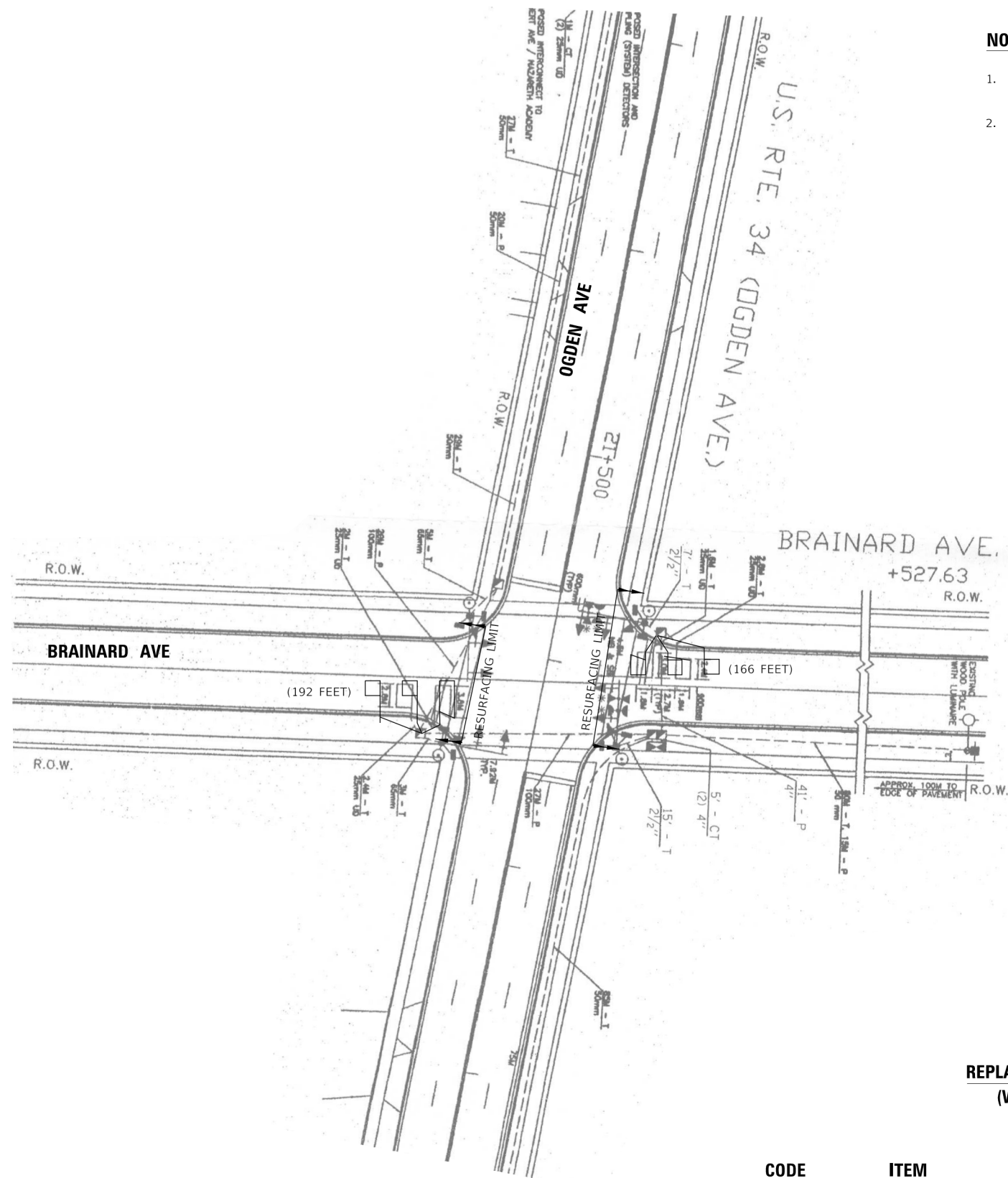
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC NOTES	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 37
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, & PATCHING OPERATIONS)".
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT	
X8860105	DETECTOR LOOP REPLACEMENT	358	FOOT	TS 13855

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

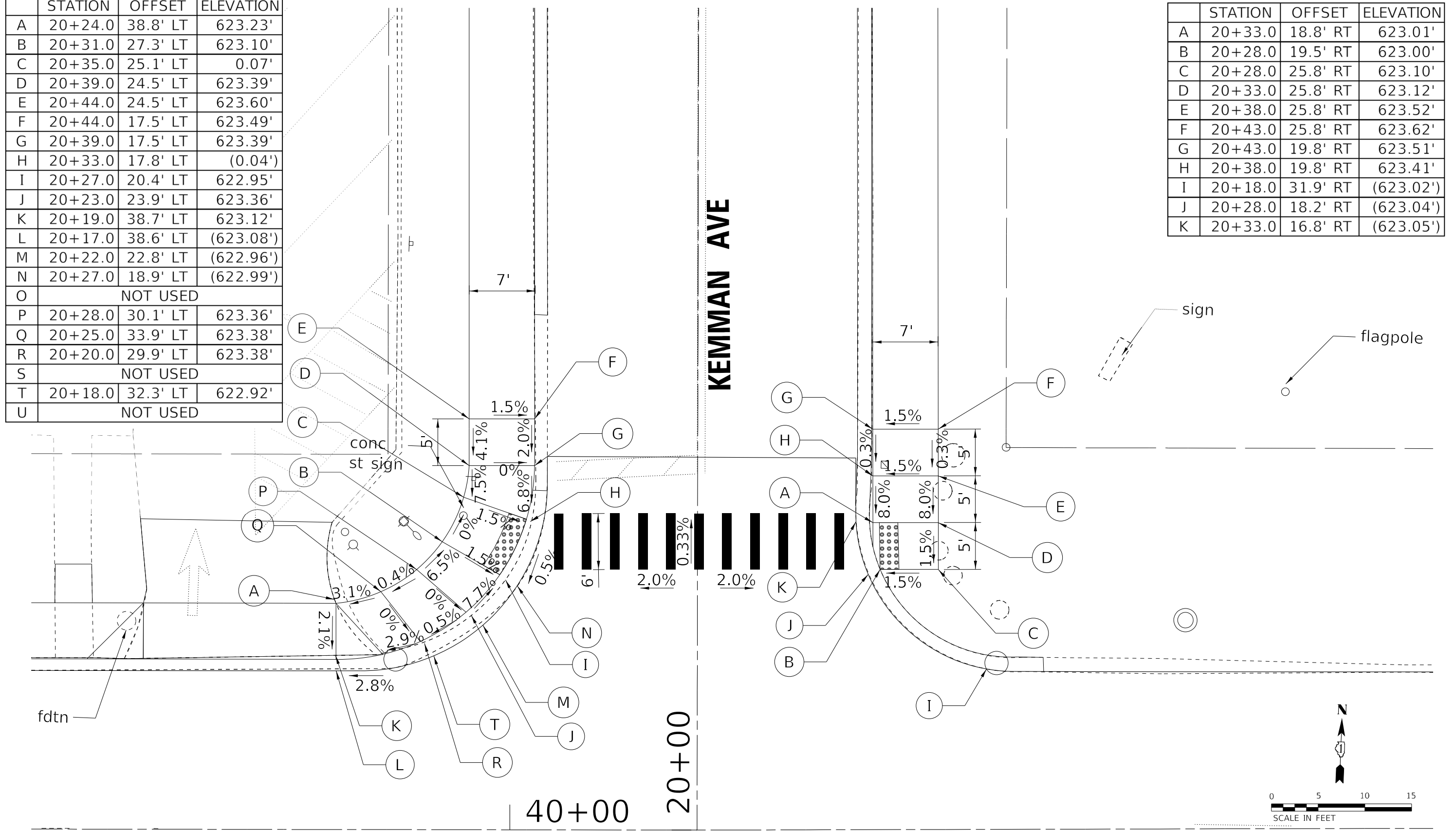
DETECTOR LOOP DETAIL
BRAINARD AVENUE AND U.S. ROUTE 34 (OGDEN AVENUE)
 SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. 59+24 TO STA. 62+47

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 38
ILLINOIS FED. AID PROJECT C16E(520)			CONTRACT NO. 61K11	

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	STATION	OFFSET	ELEVATION
A	20+24.0	38.8' LT	623.23'
B	20+31.0	27.3' LT	623.10'
C	20+35.0	25.1' LT	0.07'
D	20+39.0	24.5' LT	623.39'
E	20+44.0	24.5' LT	623.60'
F	20+44.0	17.5' LT	623.49'
G	20+39.0	17.5' LT	623.39'
H	20+33.0	17.8' LT	(0.04')
I	20+27.0	20.4' LT	622.95'
J	20+23.0	23.9' LT	623.36'
K	20+19.0	38.7' LT	623.12'
L	20+17.0	38.6' LT	(623.08')
M	20+22.0	22.8' LT	(622.96')
N	20+27.0	18.9' LT	(622.99')
O	NOT USED		
P	20+28.0	30.1' LT	623.36'
Q	20+25.0	33.9' LT	623.38'
R	20+20.0	29.9' LT	623.38'
S	NOT USED		
T	20+18.0	32.3' LT	622.92'
U	NOT USED		

	STATION	OFFSET	ELEVATION
A	20+33.0	18.8' RT	623.01'
B	20+28.0	19.5' RT	623.00'
C	20+28.0	25.8' RT	623.10'
D	20+33.0	25.8' RT	623.12'
E	20+38.0	25.8' RT	623.52'
F	20+43.0	25.8' RT	623.62'
G	20+43.0	19.8' RT	623.51'
H	20+38.0	19.8' RT	623.41'
I	20+18.0	31.9' RT	(623.02')
J	20+28.0	18.2' RT	(623.04')
K	20+33.0	16.8' RT	(623.05')

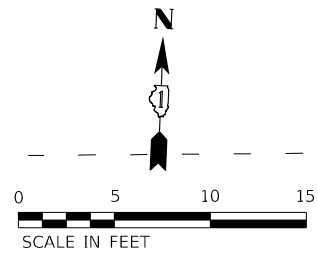


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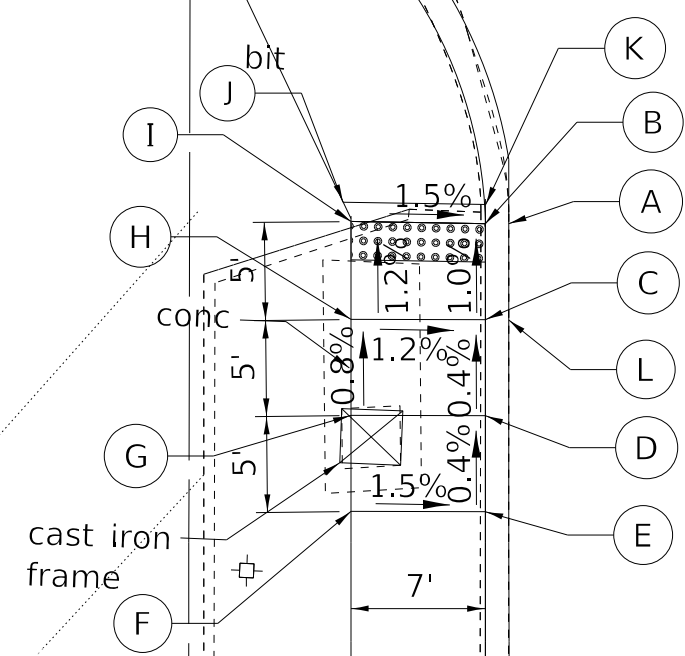
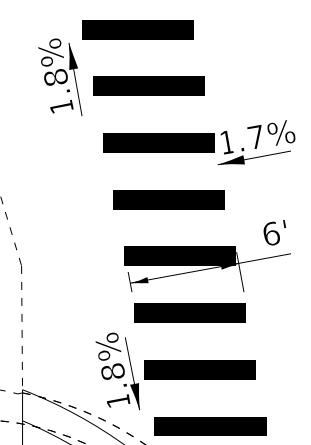
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA DETAILS SHAWMUT AVENUE	
SCALE: 1" = 5'	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 39
CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				



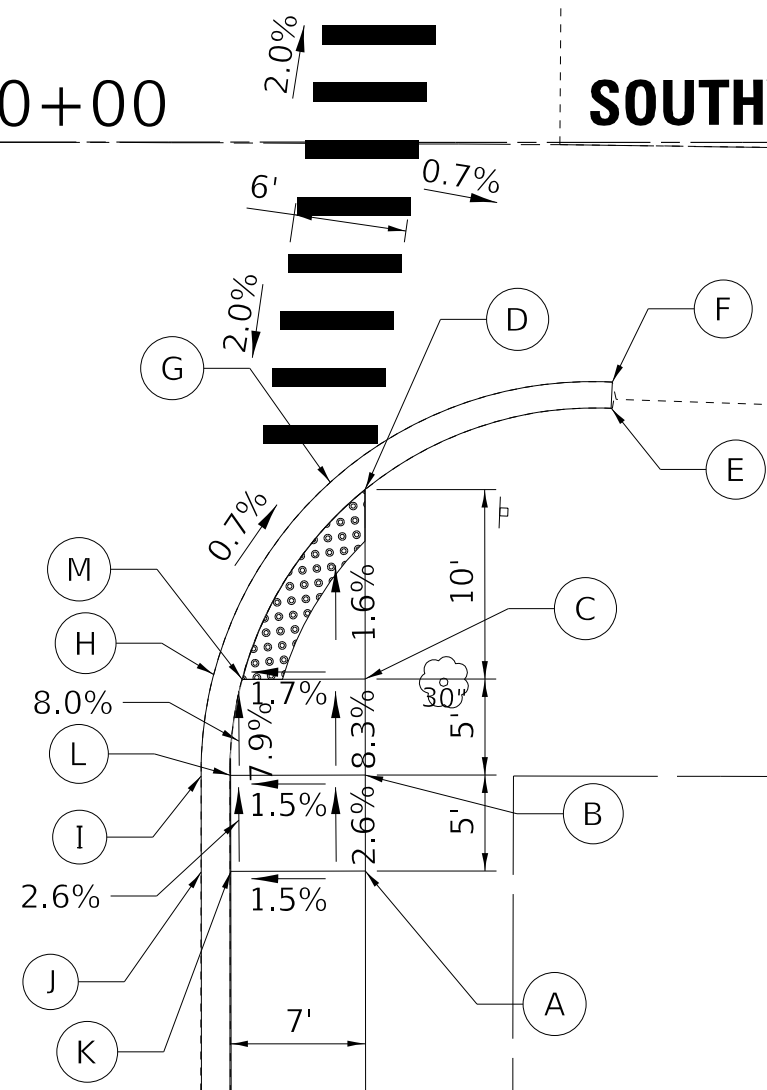
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	STATION	OFFSET	ELEVATION
A	22+07.0	16.3' LT	(623.48')
B	22+06.0	17.7' LT	623.81'
C	22+01.0	17.7' LT	623.86'
D	21+96.0	17.7' LT	623.84'
E	21+91.0	17.7' LT	623.82'
F	21+91.0	24.7' LT	623.93'
G	21+96.0	24.7' LT	623.95'
H	22+01.0	24.7' LT	623.95'
I	22+06.0	24.7' LT	623.92'
J	22+07.0	25.2' LT	623.92'
K	22+07.0	17.7' LT	623.81'
L	22+01.0	16.5' LT	(623.46')

300+00

SOUTHVIEW AVE



KEMMAN AVE 22

	STATION	OFFSET	ELEVATION
A	22+03.0	25.3' RT	624.04'
B	22+08.0	25.3' RT	623.91'
C	22+13.0	25.3' RT	623.49'
D	22+23.0	25.2' RT	623.33'
E	22+27.0	38.1' RT	(623.78')
F	22+29.0	38.1' RT	(623.52')
G	22+24.0	23.5' RT	(623.37')
H	22+14.0	17.4' RT	623.44'
I	22+08.0	16.8' RT	(623.47')
J	22+03.0	16.8' RT	(623.49')
K	22+03.0	18.3' RT	623.93'
L	22+08.0	18.3' RT	623.80'
M	22+13.0	19.0' RT	623.40'

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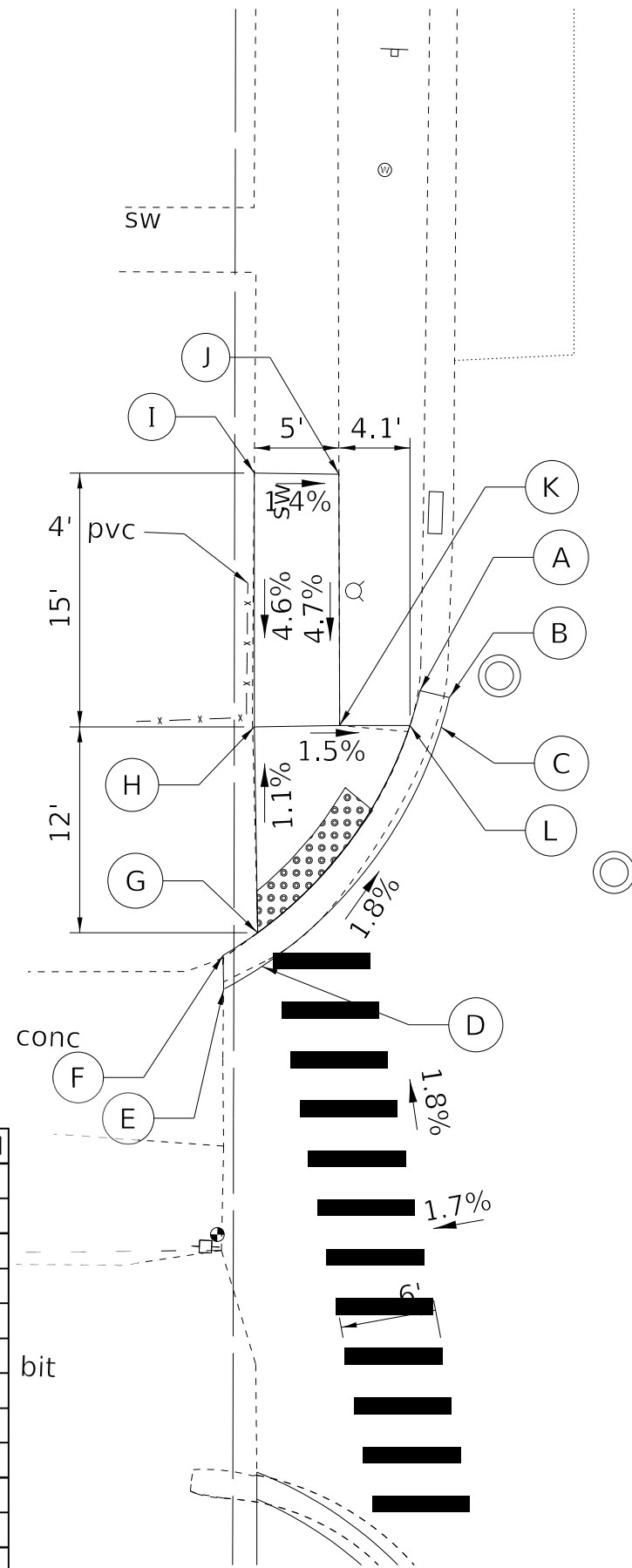
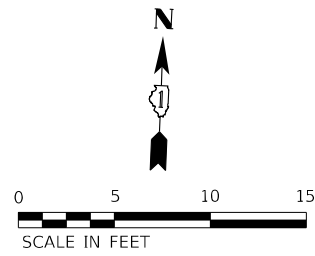


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAILS		F.A.U. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
KEMMAN AVENUE		2714/2704	20-00096-00-R5	COOK	52	40
SCALE: 1" = 5'		SHEET 2 OF 3 SHEETS		TO STA.		CONTRACT NO. 61K11

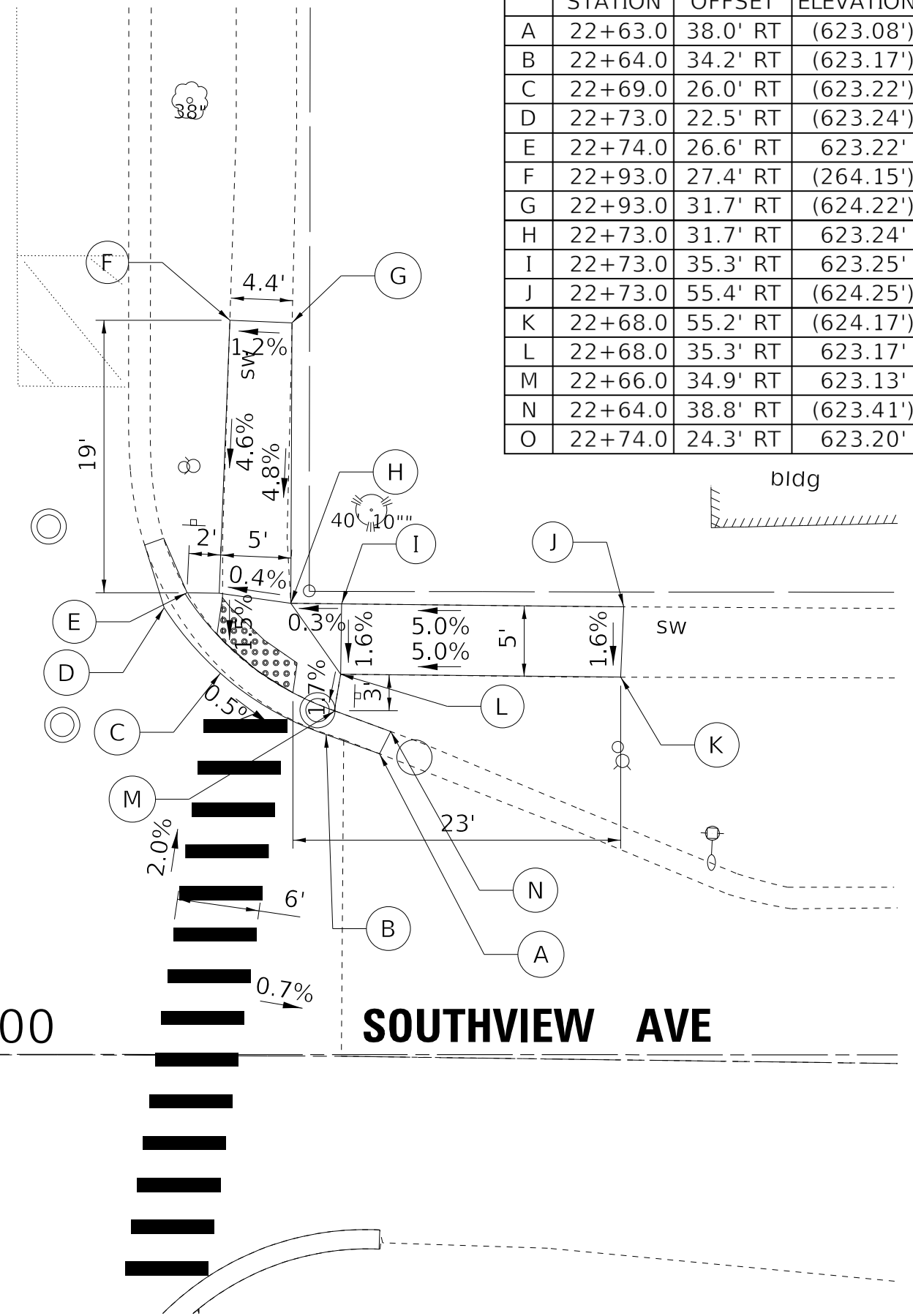
ILLINOIS		FED. AID PROJECT C16E(520)	
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	STATION	OFFSET	ELEVATION
A	22+75.0	22.1' LT	(623.83')
B	22+74.0	20.3' LT	(623.34')
C	22+72.0	21.0' LT	(623.49')
D	22+59.0	31.3' LT	(623.76')
E	22+57.0	33.8' LT	(623.88')
F	22+59.0	33.8' LT	(623.95')
G	22+60.0	31.7' LT	623.72'
H	22+73.0	31.8' LT	623.59'
I	22+88.0	32.0' LT	(624.26')
J	22+88.0	26.9' LT	(624.19')
K	22+73.0	26.9' LT	623.49'
L	22+72.0	22.8' LT	623.45'

KEMMAN AVE 23

300+00



	STATION	OFFSET	ELEVATION
A	22+63.0	38.0' RT	(623.08')
B	22+64.0	34.2' RT	(623.17')
C	22+69.0	26.0' RT	(623.22')
D	22+73.0	22.5' RT	(623.24')
E	22+74.0	26.6' RT	623.22'
F	22+93.0	27.4' RT	(264.15')
G	22+93.0	31.7' RT	(624.22')
H	22+73.0	31.7' RT	623.24'
I	22+73.0	35.3' RT	623.25'
J	22+73.0	55.4' RT	(624.25')
K	22+68.0	55.2' RT	(624.17')
L	22+68.0	35.3' RT	623.17'
M	22+66.0	34.9' RT	623.13'
N	22+64.0	38.8' RT	(623.41')
O	22+74.0	24.3' RT	623.20'

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	DATE - 10-02-2023	FILE - 200239-SHT-ADA-Kemman2.dgn


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 5'		SHEET 3 OF 3 SHEETS	STA. TO STA.
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ADA DETAILS
KEMMAN AVENUE

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 41
CONTRACT NO. 61K11				ILLINOIS FED. AID PROJECT C16E(520)

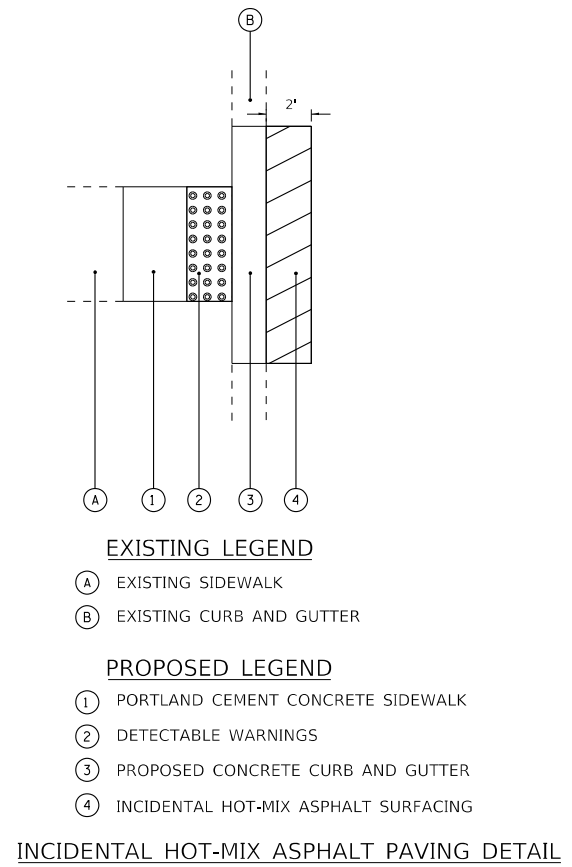
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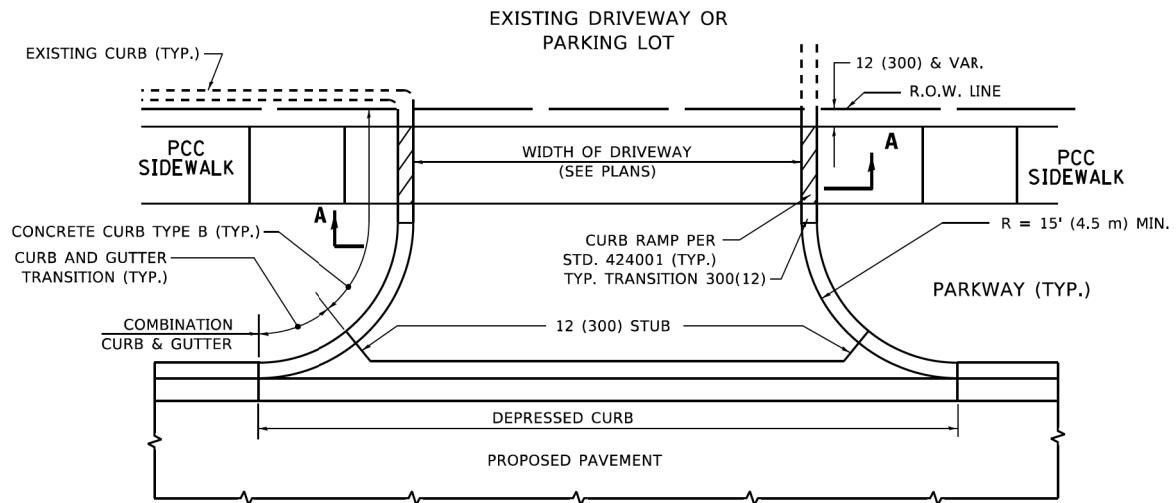
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

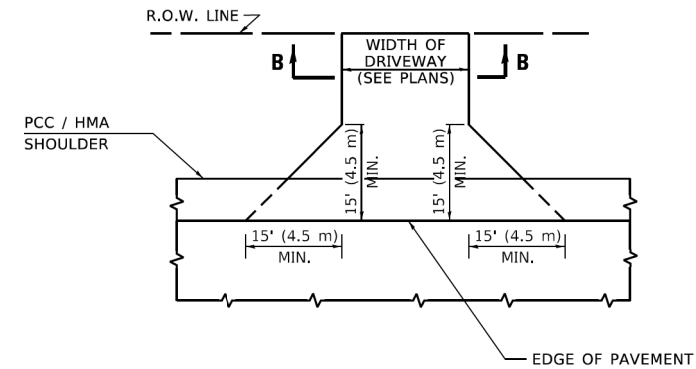
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SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

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CONTRACT NO. 61K11				
ILLINOIS FED. AID PROJECT C16E(520)				

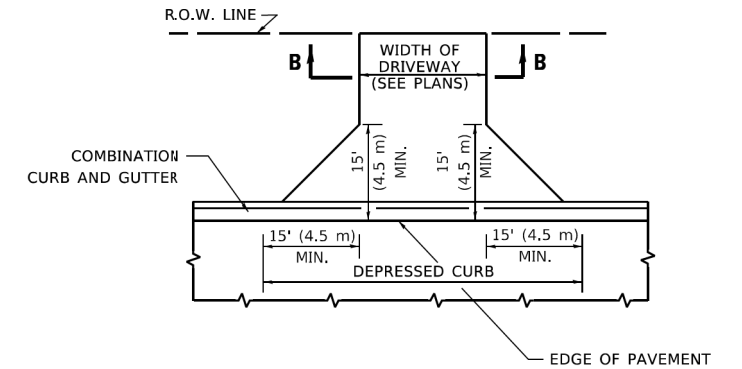




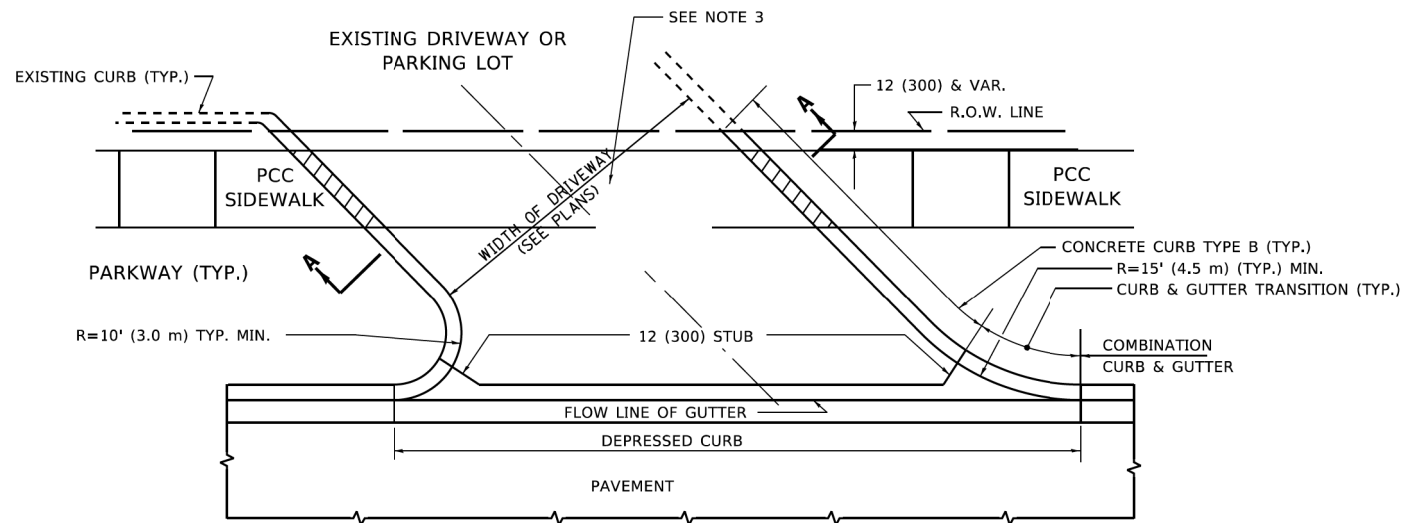
WITH CONCRETE CURB, TYPE B



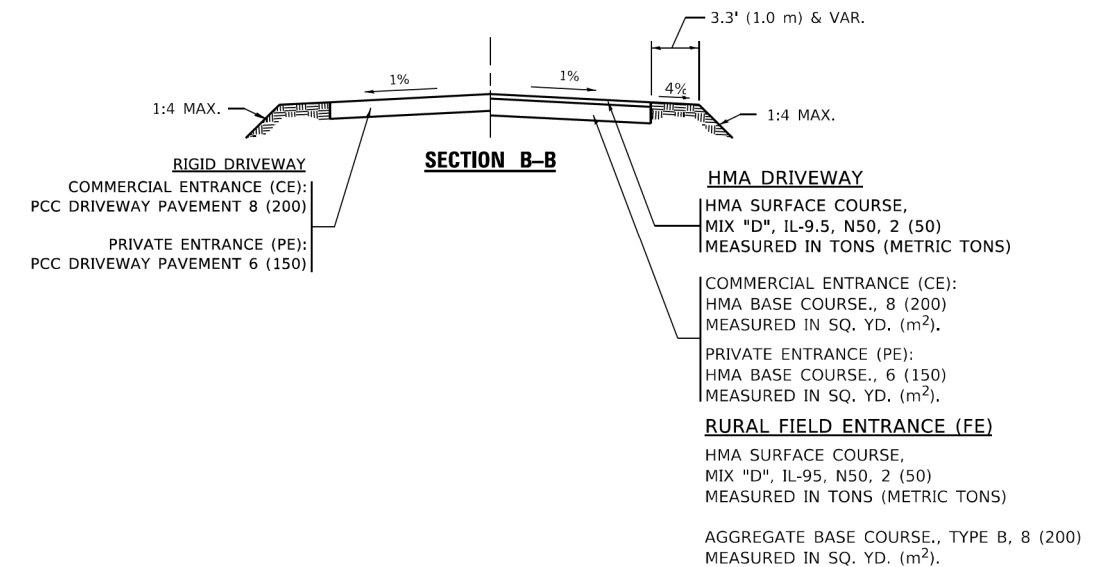
ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER



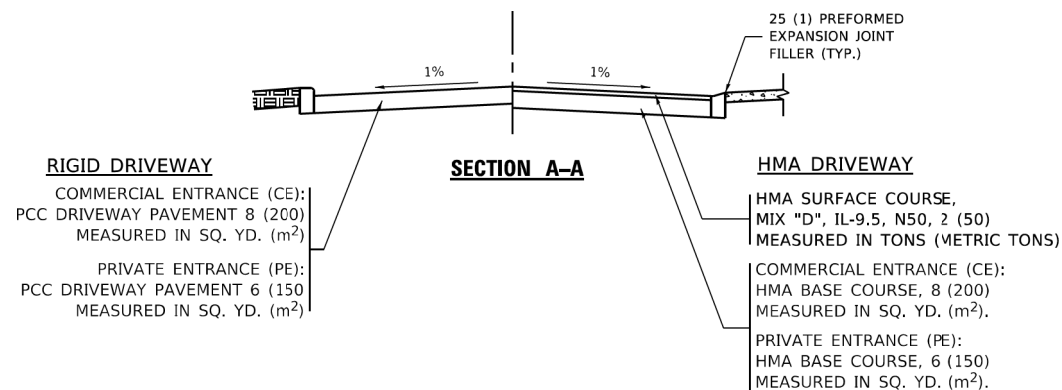
WITH CONCRETE CURB, TYPE B



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.

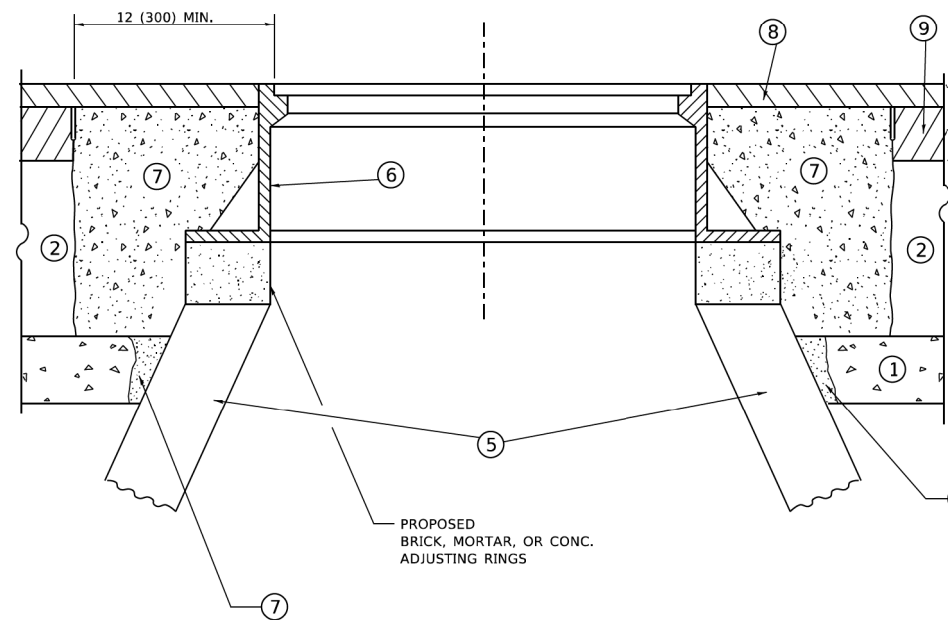
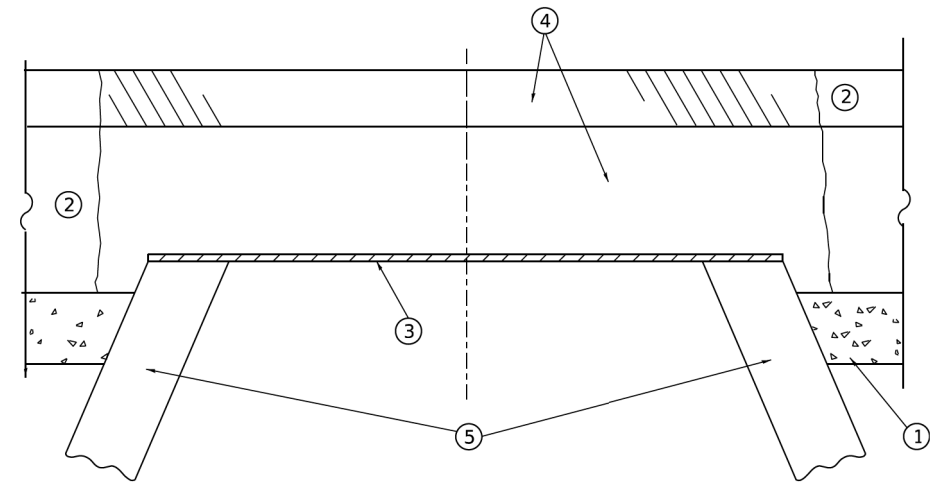


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DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	43
BD400-01 (BD-01)			CONTRACT NO. 61K11	
ILLINOIS FED. AID PROJECT C36E(520)				

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 11/18/2022	DATE - 11-04-95	REVISED - K. SMITH 11-18-22



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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

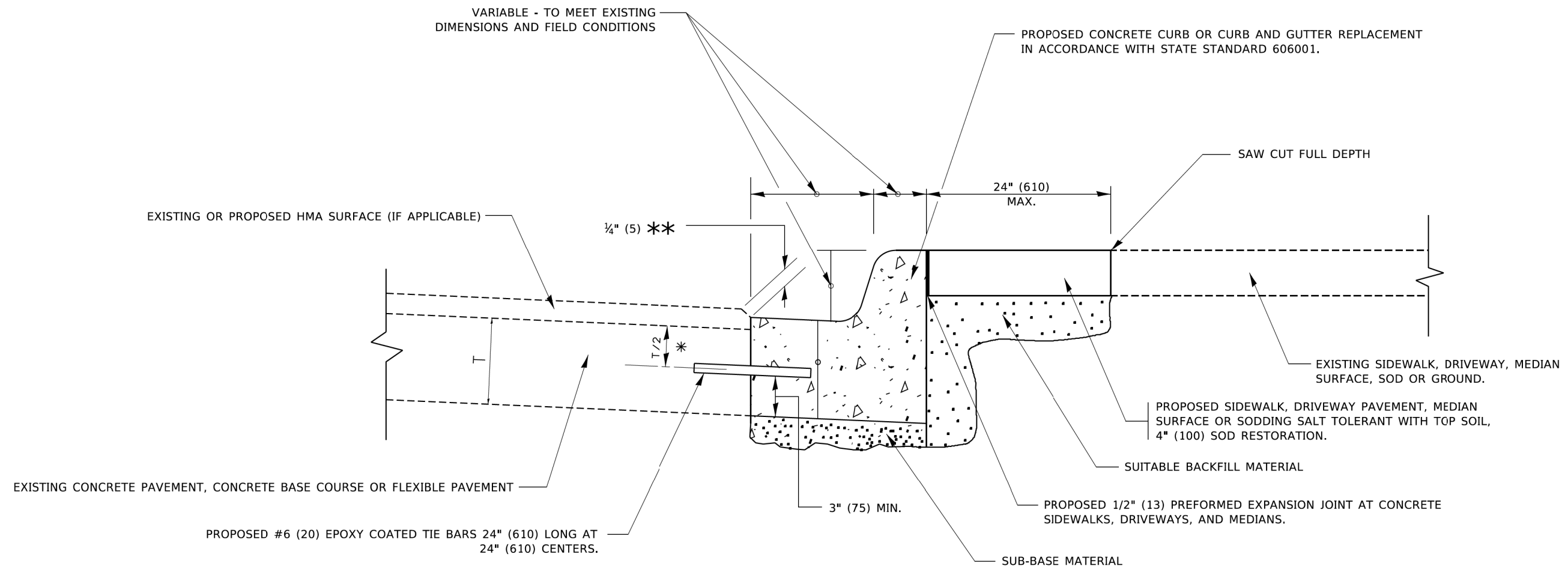
**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714/2704	20-00096-00-R5	COOK	52	44
BD600-03 (BD-08)			CONTRACT NO. 61K11	
ILLINOIS FED. AID PROJECT C36E(520)				

MODEL: Default
FILE NAME: W:\B1515022\23400808.dgn

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: Default; FILE: \\millec-prod\planning\com\edc_illinois\gov\PIV\DOT\Documents\DOT_Offices\District_1\Projects\Dist5\273-21\CAD\Drawn\Curb\sheet1\273.dgn

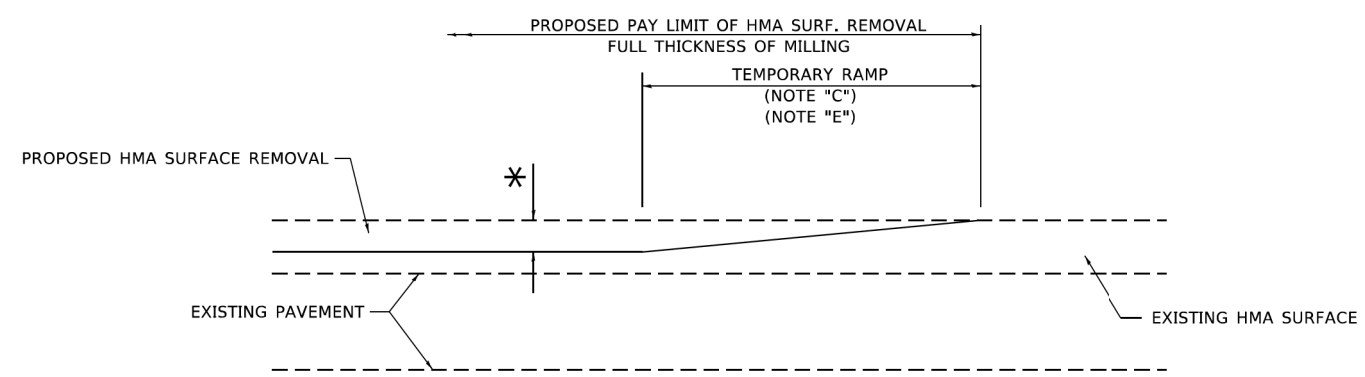
USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

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

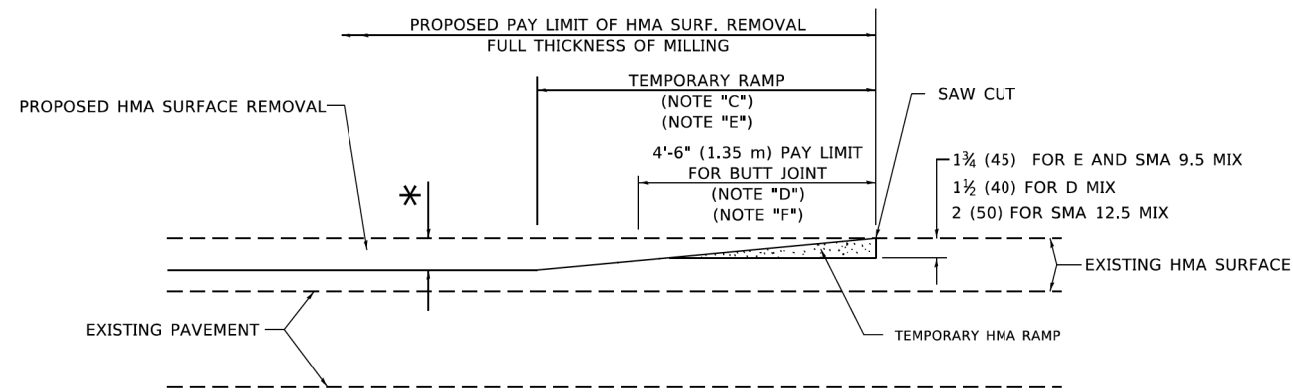
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BD600-06 (BD-24)		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

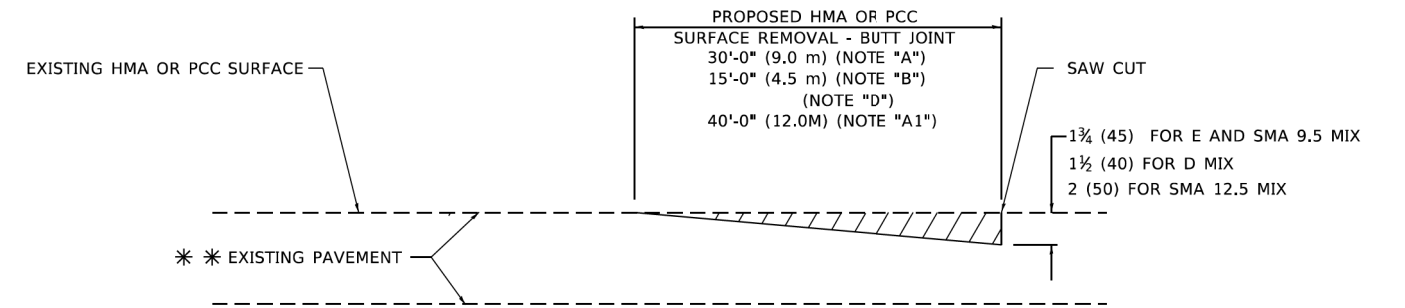


HMA CONSTRUCTED TEMPORARY RAMP

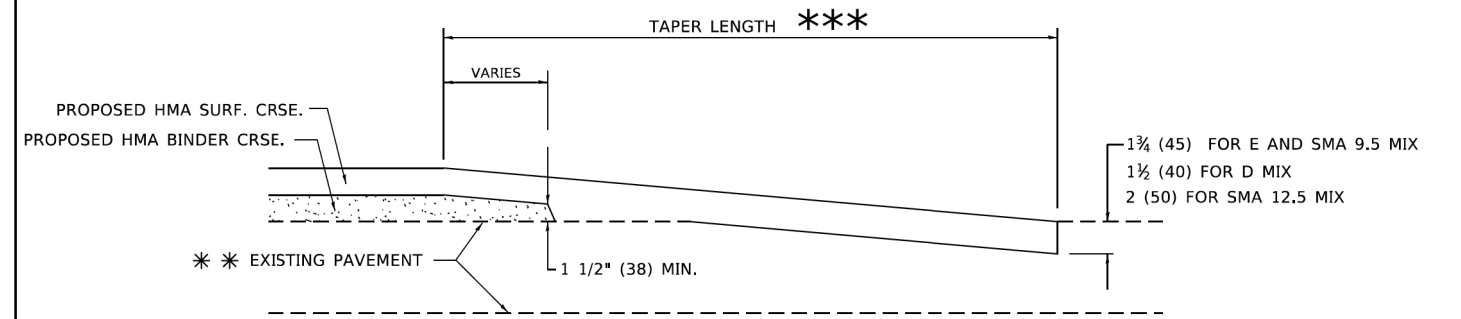
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

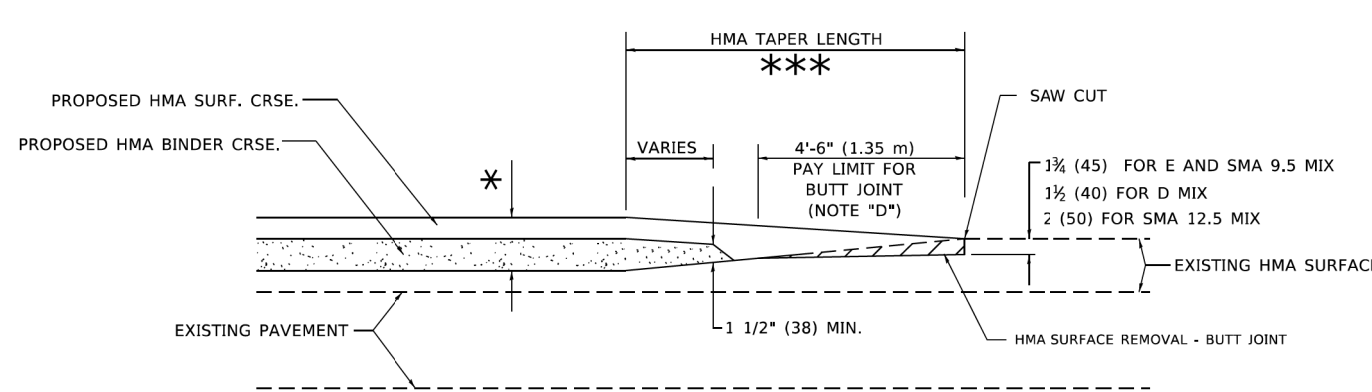
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: Default
FILE: \\nwr11e-pw-bentley.com\pwwid01\Documents\DOT_Offices\Bridges_1\Projects\BIS102133\CAD\Drawn\CADsheets\0432.dgn

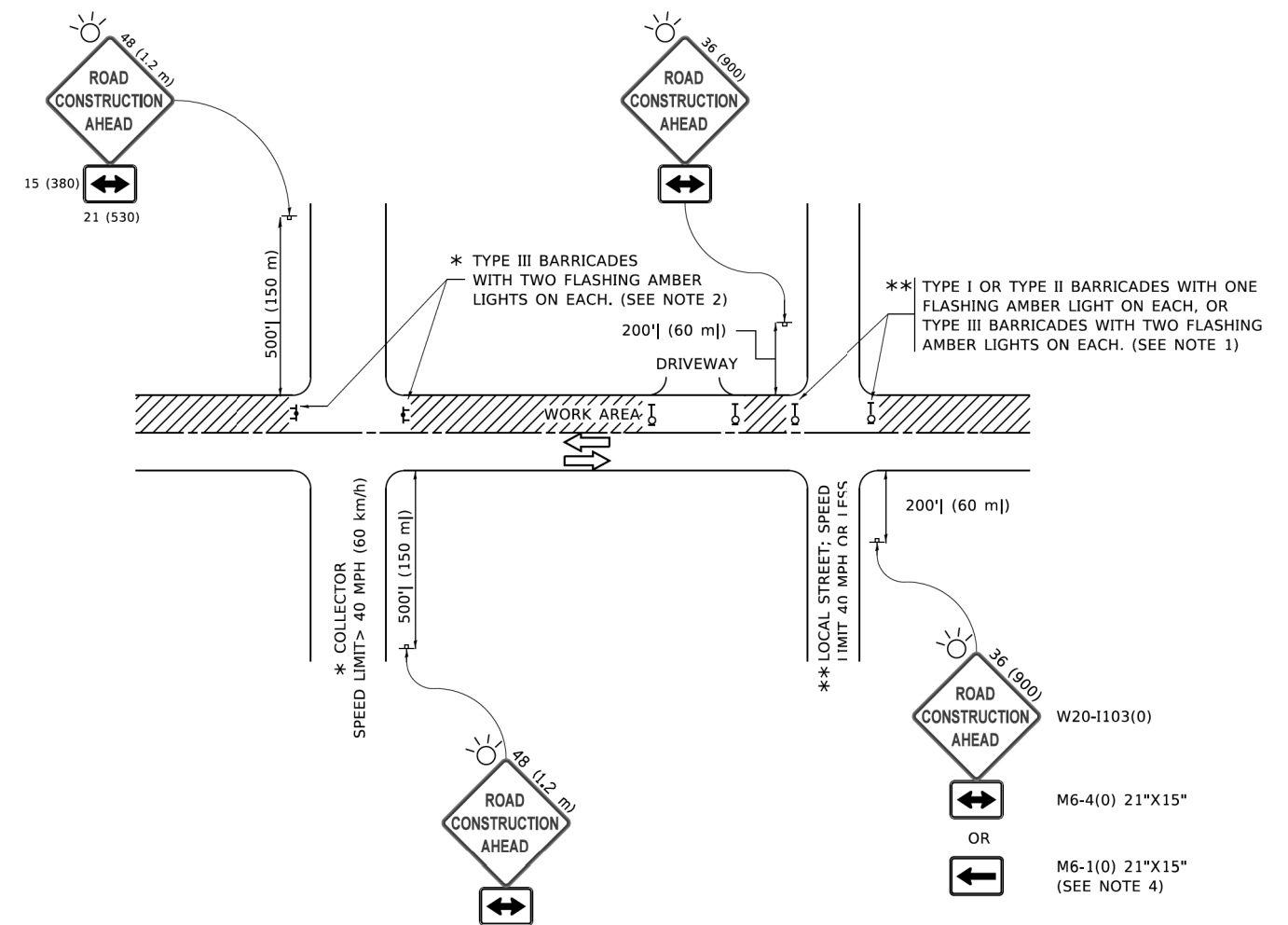
USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE. 2714/ 2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 46
BD400-05 BD-32		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 PROJECT NO. 20-00096-RS
 DRAWING NO. TC-10

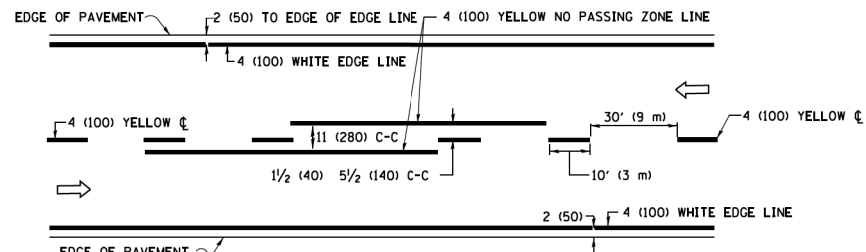
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

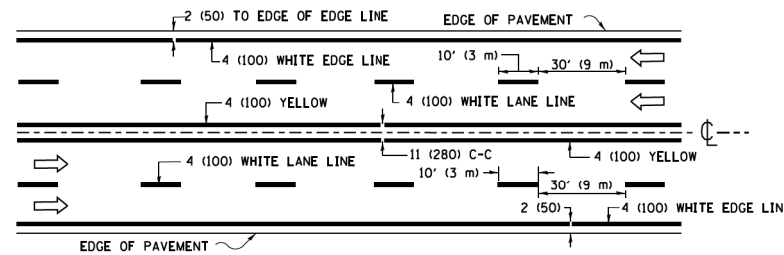
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

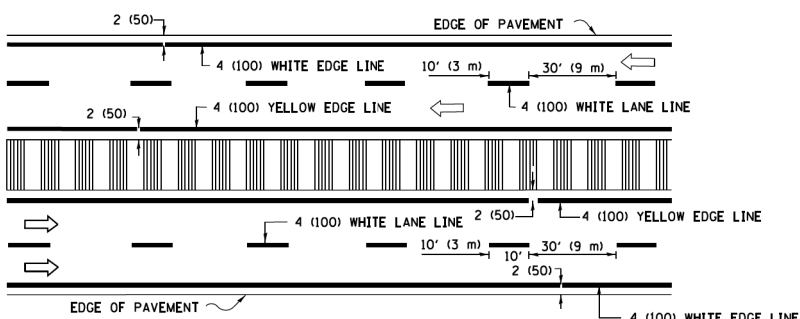
F.A. RTE. 2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 47
TC-10		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				



2-LANE ROADWAY

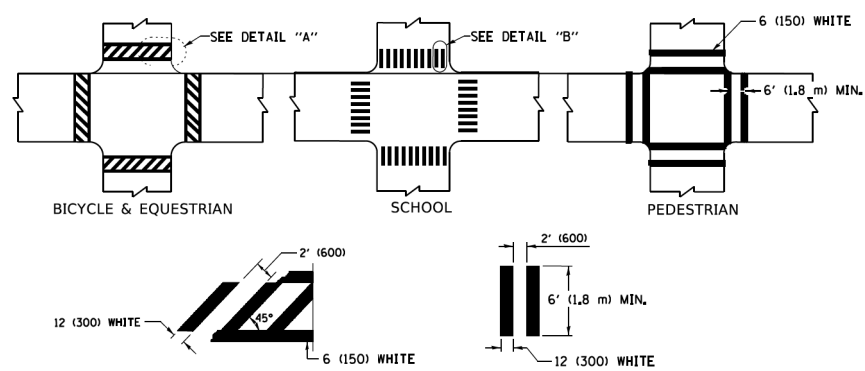


MULTI-LANE UNDIVIDED



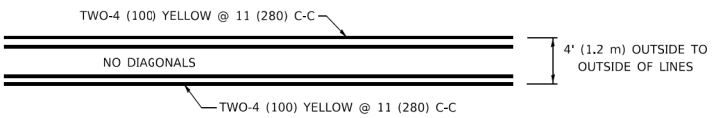
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

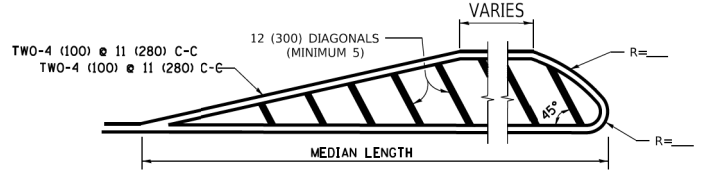


TYPICAL CROSSWALK MARKING

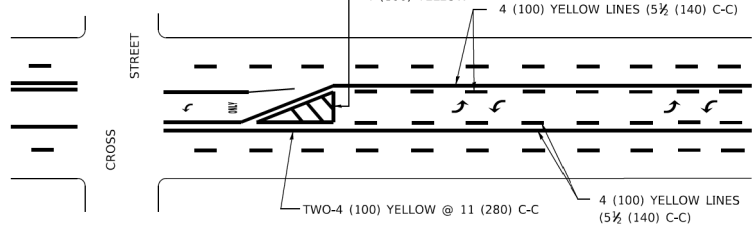
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



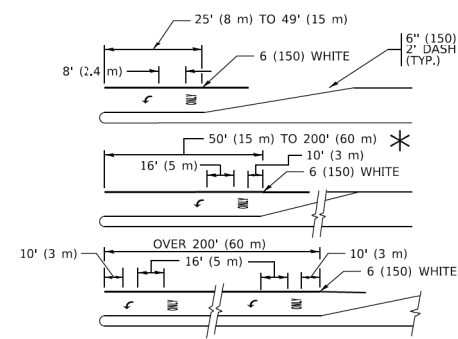
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



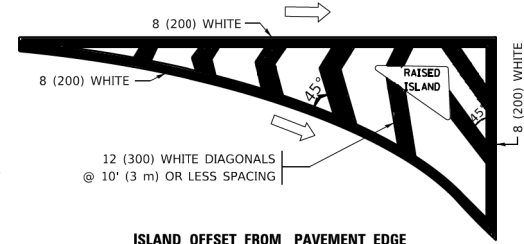
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



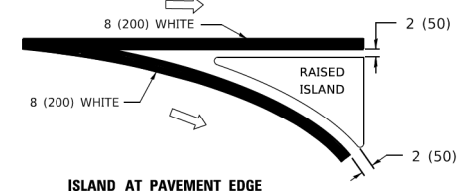
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

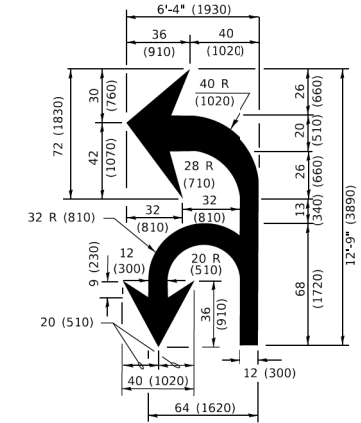
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



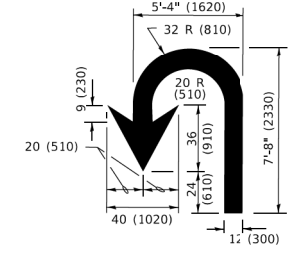
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

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

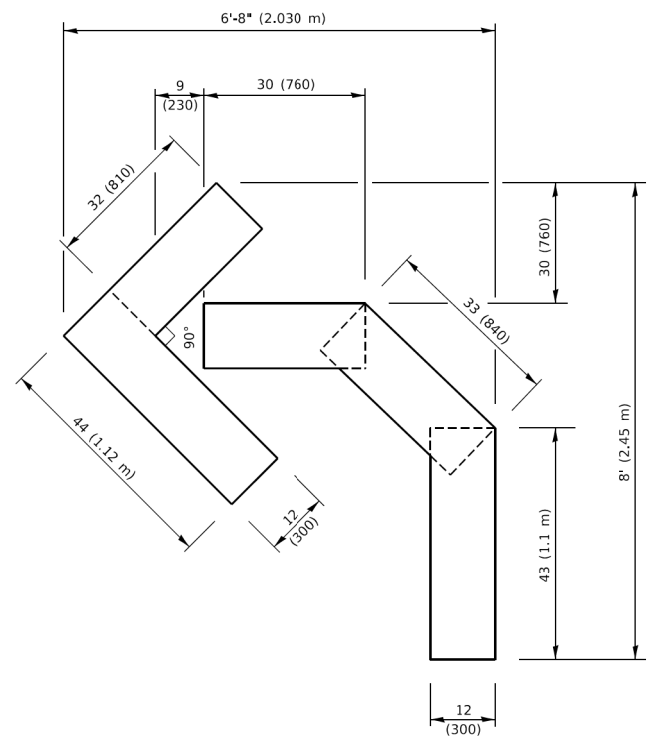
All dimensions are in inches (millimeters) unless otherwise shown.

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM. PLOT DATE = 3/4/2019
 PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 20-00096-00-RS
 SHEET NO. 52 OF 48

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-C9-09
PLOT SCALE = 50,0000 1/1	DRAWN -	REVISED - C. JUCIUS 07-C1-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

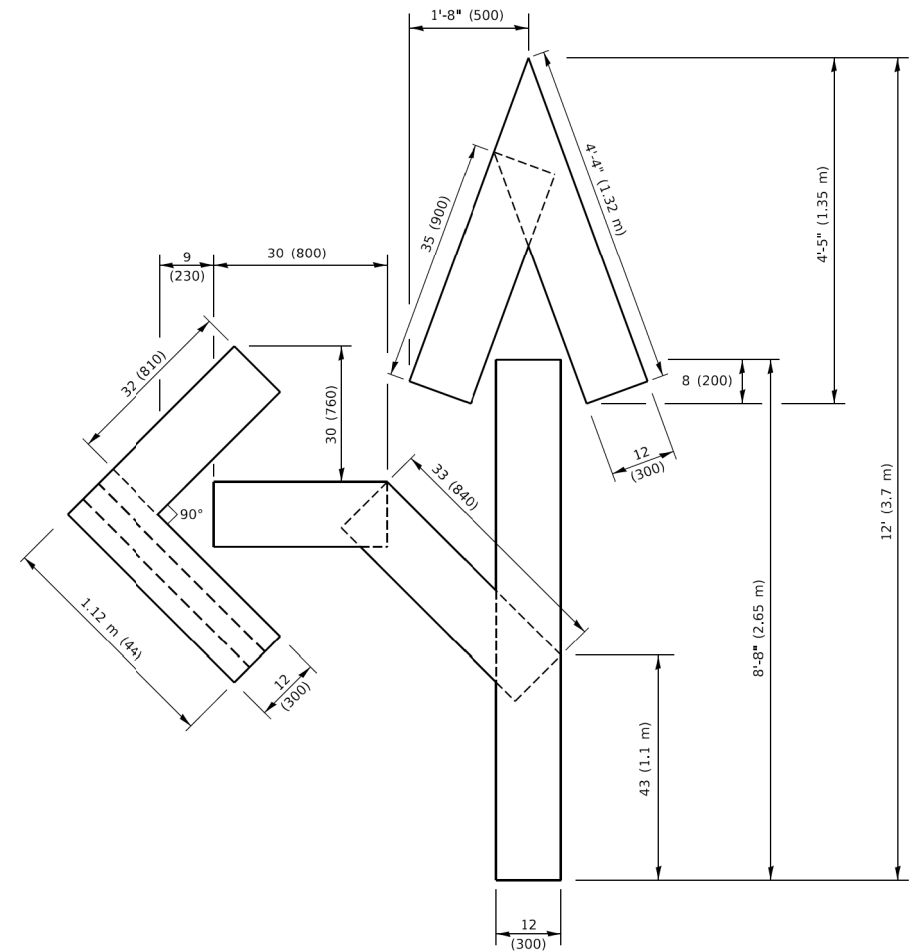
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A. RTE. 2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 48
TYPICAL PAVEMENT MARKINGS		TC-13		CONTRACT NO. 61K11		
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT C16(520)			



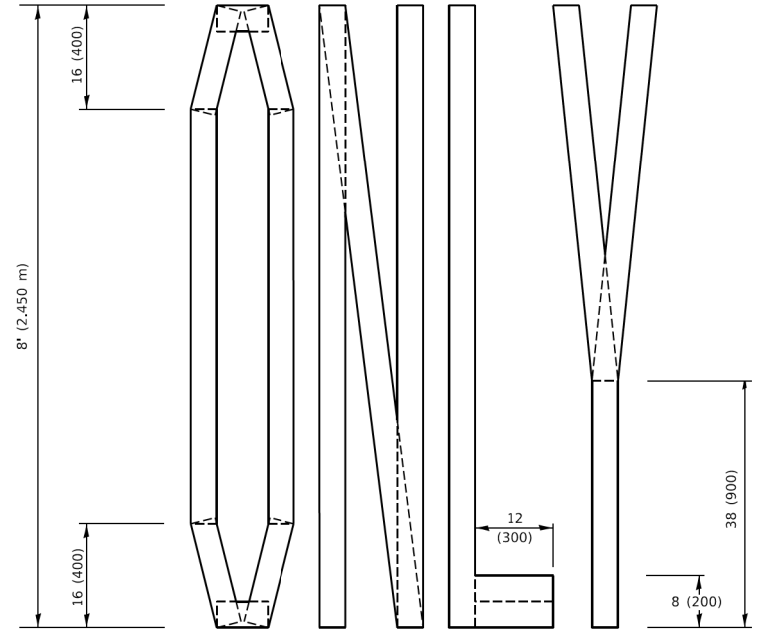
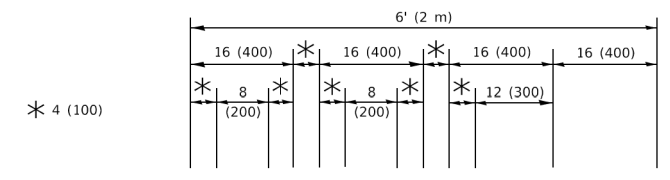
QUANTITY

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)

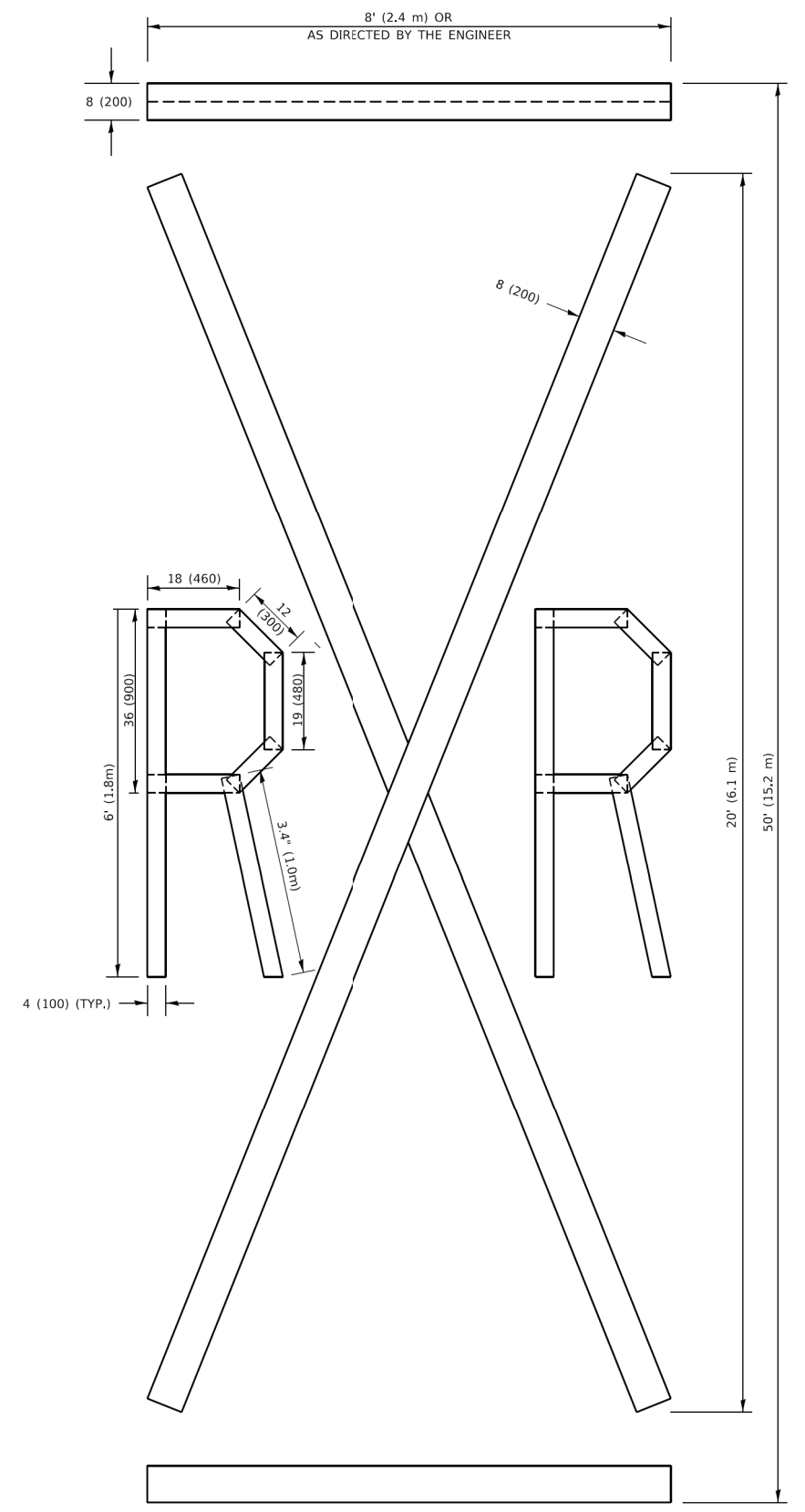


QUANTITY

4 (100) LINE = 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.



QUANTITY

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

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

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM, PLOT DATE = 3/4/2019
 PROJECT: ILLINOIS STATE HIGHWAY 20, PROJECT NO. 20-00096-00-RS, SHEET NO. 52 OF 49
 DRAWN BY: J. GOMEZ, CHECKED BY: E. GOMEZ, DESIGNED BY: T. RAMMACHER, REVISIONS: 09-15-16, 08-28-0, 08-28-0, 03-02-98

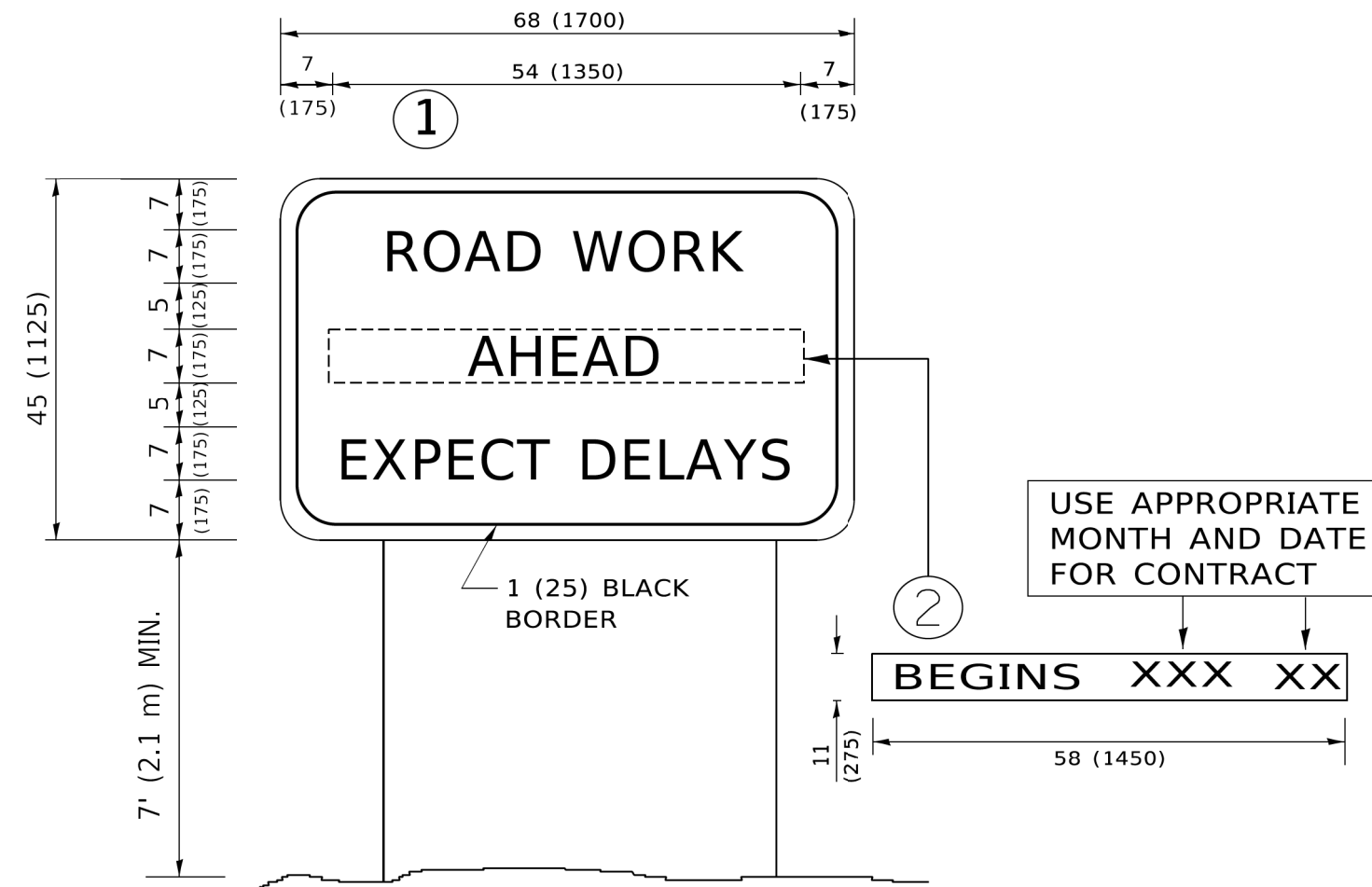
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-0
PLOT SCALE = 50.0068" / in.	CHECKED -	REVISED - E. GOMEZ 08-28-0
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**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. RTE. 2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 49
TC-16		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				



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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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 PROJECT NO. 20-00096-00-RS
 DRAWING NO. TC-22
 DATE: 3/4/2019

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

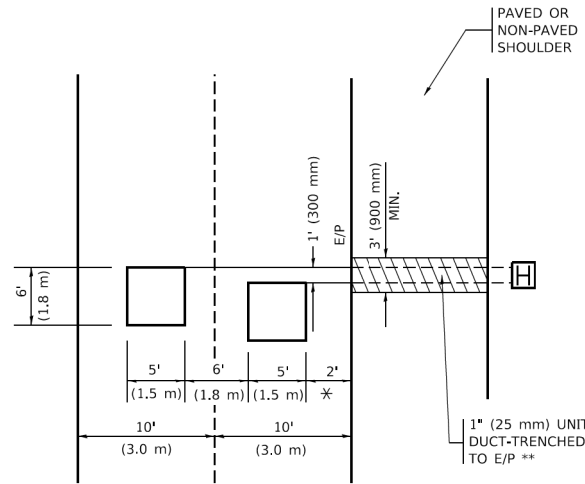
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE. 2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 50
TC-22		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

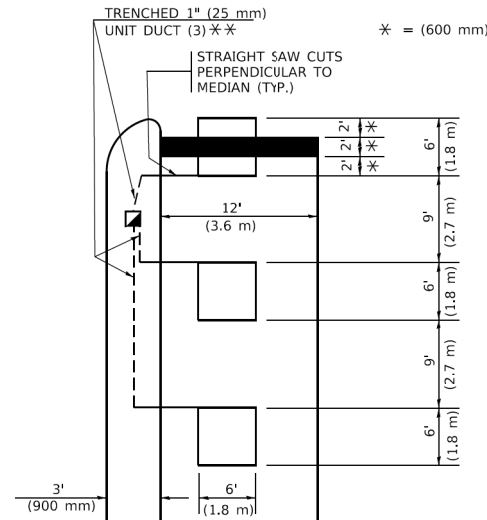


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

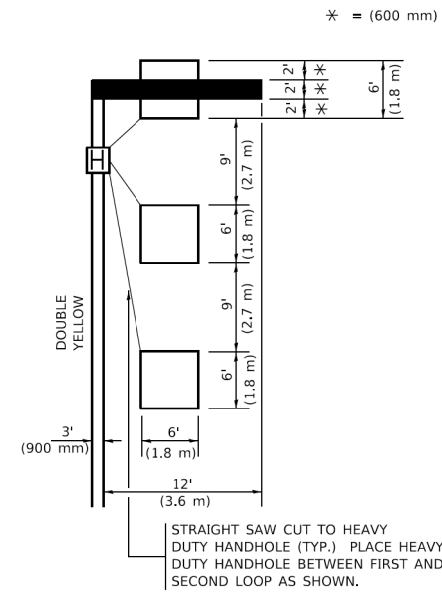


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

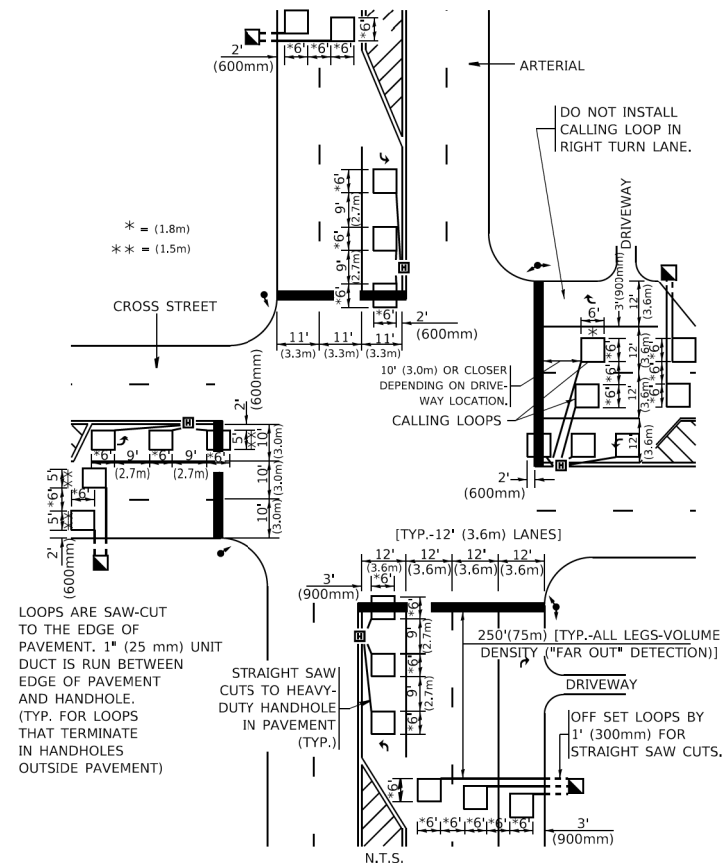
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



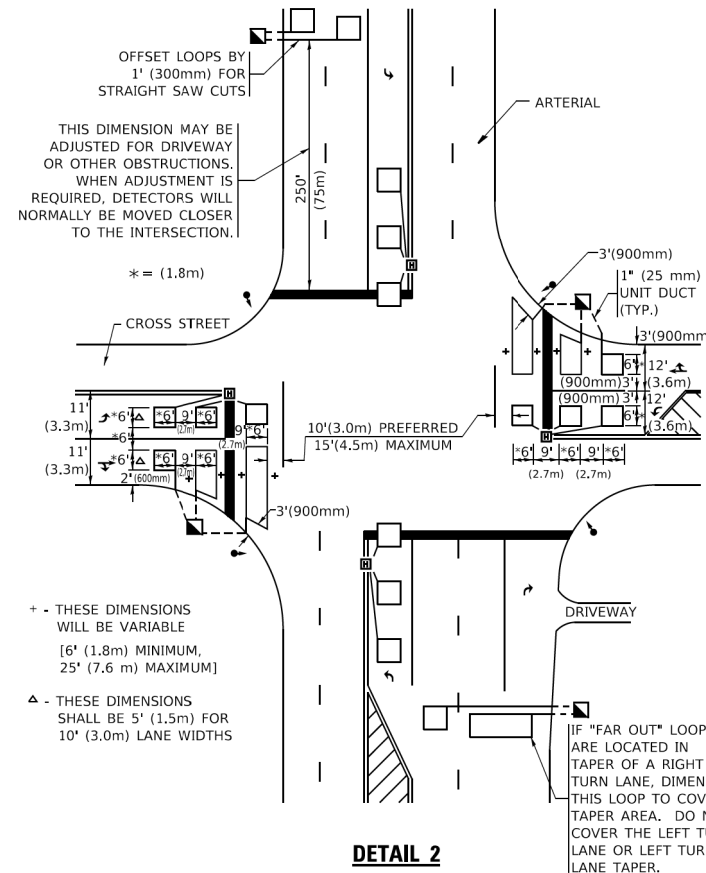
* = (1.8m)
 ** = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
 N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
 N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

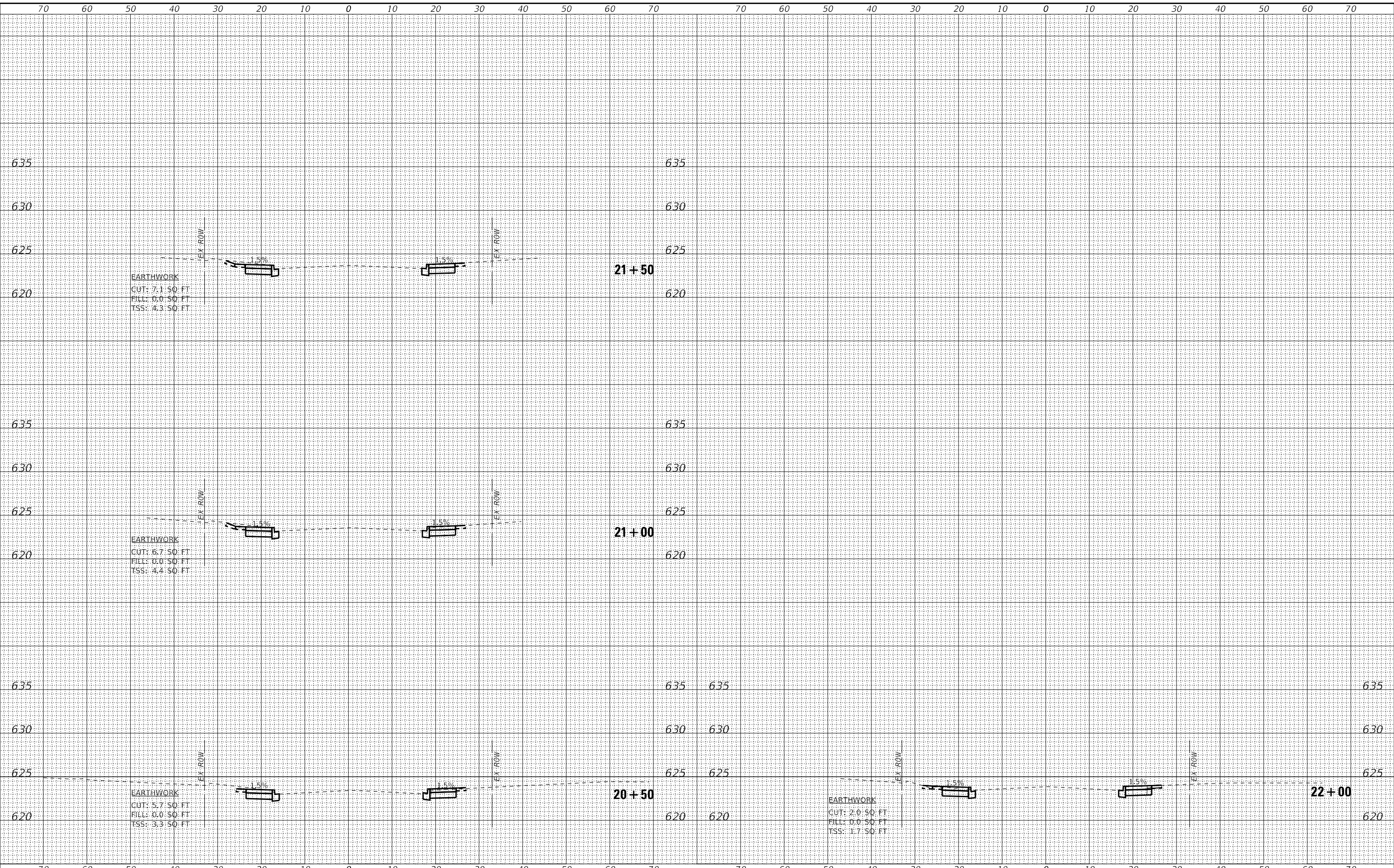
DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

USER NAME = footemj	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISOR -
PLOT SCALE = 50,0000 1 / in.	CHECKED - R.K.F.	REVISOR -
PLOT DATE = 3/4/2019	DATE -	REVISOR -

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

F.A. RTE. 2714/2704	SECTION 20-00096-00-RS	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 51
TS-07		CONTRACT NO. 61K11		
ILLINOIS FED. AID PROJECT C16E(520)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 mvanderveiden 1/29/2024 5:02:51 PM
 MODEL: Detail
 FILE NAME: B:\CIVIL\Lake\UGR\200239-2020 STP Application\CAD\Shawmut_Ave\Sheets\200239-5HT-XSEC_Kemman.dgn



USER NAME - mvanderveiden	DESIGNED - AKS	REVISED -
PLOT SCALE - 10.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE - 1/29/2024	CHECKED - TMS	REVISED -
	DATE - 10-02-2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 KEMMAN AVENUE (STATE ROUTE)

SCALE: H:1"=10'; V:1"=5' SHEET 1 OF 1 SHEETS STA. 20+50 TO STA. 22+00

F.A.U. RTE. 2714/2704	SECTION 20-00096-00-R5	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 52
				CONTRACT NO. 61K11

ILLINOIS FED. AID PROJECT C16E(520)