01-17-2025 LETTING ITEM 097

F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	1
	ILLINOIS	CONTRACT NO. 61L07		

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU 1346 (DEVON AVENUE) AND
FAU 2652 (TONNE ROAD – WOOD DALE ROAD)
INTERSECTION RESURFACING
SECTION 23-00080-00-RS
PROJECT NUMBER: K7DI(517)
JOB NO. C-91-157-24
VILLAGE OF ELK GROVE VILLAGE
COOK COUNTY

FOR INDEX OF SHEETS, HIGHWAY STANDARDS AND LEGEND SEE SHEET NO. 02

FUNCTIONAL CLASSIFICATION

DEVON AVENUE - MINOR ARTERIAL
TONNE ROAD - MAJOR COLLECTOR
WOOD DALE ROAD - MINOR ARTERIAL

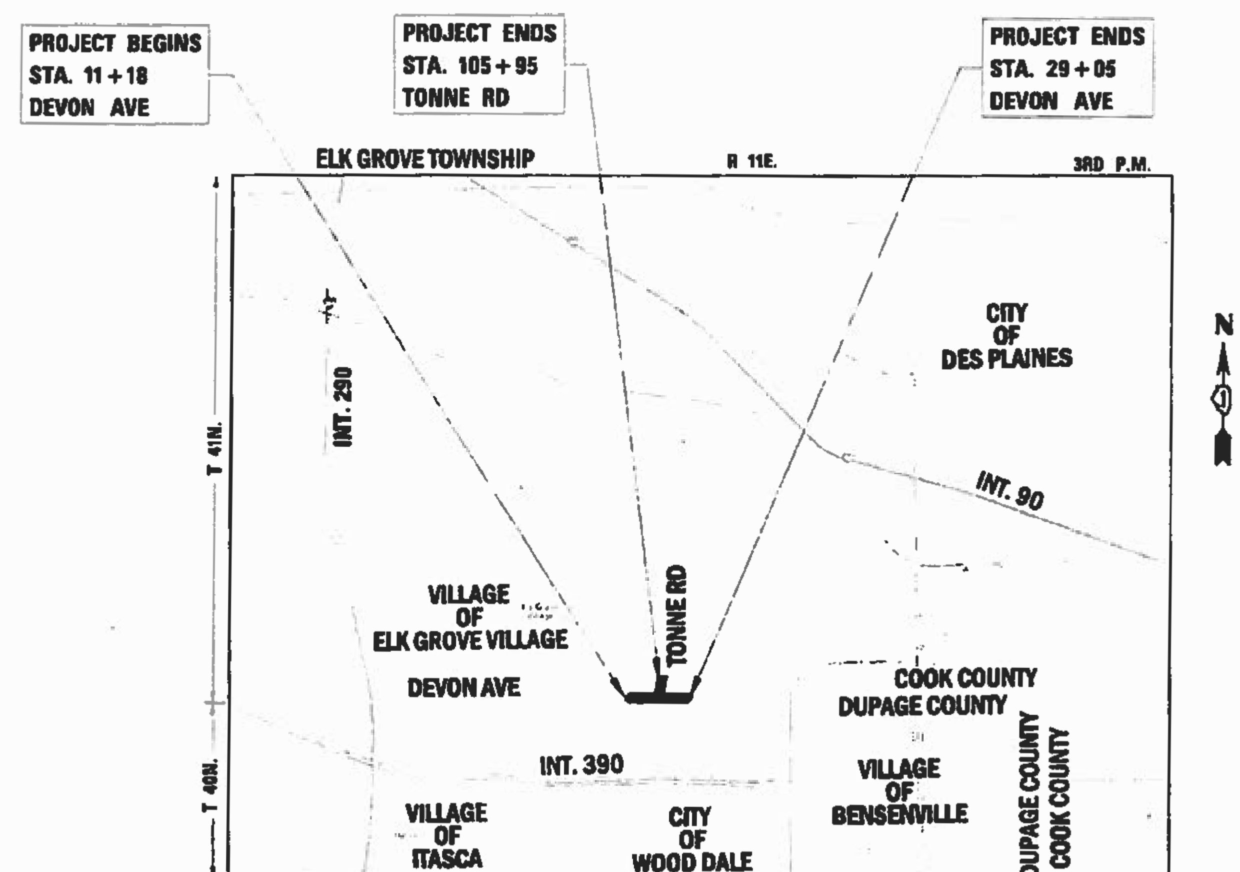
TRAFFIC DATA

DEVON AVENUE
ADT: 17,000 (2022)
TONNE ROAD
ADT: 9,200 (2022)
WOOD DALE ROAD
ADT: 9,850 (2016)

POSTED SPEED LIMIT
DEVON AVENUE = 40 MPH
TONNE ROAD = 30 MPH
WOOD DALE ROAD = 40 MPH

DESIGN SPEED LIMIT
DEVON AVENUE = 45 MPH
TONNE ROAD = 35 MPH
WOOD DALE ROAD = 45 MPH

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



LOCATION MAP (SCALE 1" = 3000')
GROSS LENGTH = 2,382 FEET (0.451 MILE)
NET LENGTH = 2,382 FEET (0.451 MILE)

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.

Call Before You Dig
JULIE
Simply Call 811

CONTRACT NO. 61L07

LOCATION OF SECTION INDICATED THUS:–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED September 25, 2024
VILLAGE OF ELK GROVE VILLAGE DIRECTOR OF PUBLIC WORKS

PASSED Nov 15 2024
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 18 2024
REGIONAL ENGINEER

DATE: 9-25-24
LICENSE EXPIRES: 11-30-25

SEAL: JOSEPH W. CWYNAR 062-054899 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE HIGHWAY STANDARDS, GENERAL & MOT NOTES
3-6	SUMMARY OF QUANTITIES
7-10	TYPICAL SECTIONS
11-14	PLAN SHEETS
15-16	TRAFFIC CONTROL AND PROTECTION AT DUAL LEFT TURN LANE
17-20	EROSION CONTROL PLAN
21-24	PAVEMENT MARKING PLAN
25-28	LANDSCAPING PLAN
29-33	ADA DETAIL SHEETS
34-40	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
41-42	TRAFFIC SIGNAL PLAN
43	CABLE PLAN, PHASE DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
44-47	ACCESSIBLE PEDESTRIAN SIGNAL (APS) DETAILS
48	VILLAGE OF ELK GROVE VILLAGE DETAILS
49	EROSION CONTROL SYSTEM DETAILS
50-51	CCDOTH STANDARDS
52-62	DISTRICT ONE STANDARDS

STATE OF ILLINOIS HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-06	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
604001-05	FRAMES AND LIDS TYPE 1
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTILANE 15' TO 24" FROM PAVEMENT EDGE
701427-05	INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTON LOOPS

IDOT DISTRICT ONE STANDARD DETAILS

STANDARD NO.	DESCRIPTION
BD-08	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-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	DISTRICT ONE ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DISTRICT ONE- DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ("STANDARD SPECIFICATIONS"), ADOPTED JANUARY 1, 2022; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2025; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". (IMUTCD); "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" SEVENTH EDITION, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS.
2. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROPRIATE PERMITS HAVE BEEN OBTAINED.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
4. WHEN REMOVING CURB AND GUTTER, PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
5. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE EITHER HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND DEPOSITED AT LOCATIONS PROVIDED BY HIM, OR DISPOSED OF WITHIN THE RIGHT-OF-WAY IN A MANNER OTHER THAN BURNING, SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. THE ENGINEER AND ALL UTILITY COMPANIES, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL INFORM THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.

PAVING, SHOULDERS, CURB & GUTTER AND SIDEWALK

1. HOT-MIX ASPHALT BINDER SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN PROPERLY CURED AND BACKFILLED TO THE SATISFACTION OF THE ENGINEER.
2. HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION AND TOPSOIL PLACEMENT HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER, AND THE HOT-MIX ASPHALT BINDER COURSE HAS BEEN COMPLETED PER SPECIFICATION.
3. THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACE, BINDER, OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.
4. ALL SIDEWALK CONSTRUCTED OVER A UTILITY TRENCH SHALL BE REINFORCED WITH THREE #4 REBARS WHICH EXTEND 5 FEET BEYOND THE TRENCH WALLS. AT LOCATIONS WHERE THE SIDEWALK IS ADJACENT TO THE BACK OF CURB, A 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED BETWEEN THE CURB AND SIDEWALK.
5. THE MAXIMUM CROSS SLOPE AT ANY POINT IN THE TRAVERSABLE AREA OF THE SIDEWALK, INCLUDING THE AREAS THROUGH DRIVEWAYS, SHALL BE 2.00%. ALL AREAS OF NEW SIDEWALK THAT EXCEED THIS MAXIMUM SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR.
6. CONTRACTOR SHALL SELECT CONCRETE MIX FOR CLASS B PATCHES THAT MEETS LANE CLOSURE REQUIREMENTS.
7. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH THE 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.
8. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTORS EXPENSE.
9. ALL JOINTS IN THE PROPOSED PCC SHARED USE PATH SHALL BE SAWCUT.

MISCELLANEOUS

1. THE CONTRACTOR SHALL NOT CROSS COMPLETED BINDER COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT.
2. 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 THEREIN.
3. ALL ELECTRICAL CABLE SHALL HAVE POLYVINYL CHLORIDE JACKET.

STAKING

1. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE VILLAGE, ITS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
2. THE CONSTRUCTION BASELINE HAS BEEN ESTABLISHED FOR STAKING PURPOSES ONLY AND IS NOT INTENDED TO BE A CENTERLINE OF RIGHT-OF-WAY.
3. RIGHT OF WAY LINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ANY POTENTIAL CONFLICTS WHEN APPLICABLE.

SIDEWALK MAINTENANCE NOTES

1. THE SIDEWALK ON ONE SIDE OF THE STREET MUST REMAIN OPEN AND ACCESSIBLE AT ALL TIMES. SIGNING DIRECTING PEDESTRIANS TO THE OPEN SIDEWALK SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701801.

COORDINATION

1. ALL CONTRACTOR'S EQUIPMENT STAGED INSIDE OR OUTSIDE OF THE WORKZONE SHALL NOT IMPEDE ACCESS TO ANY BUSINESS/RESIDENT DRIVEWAY. IF EQUIPMENT IS TO BE STAGED ON PRIVATE PROPERTY, WRITTEN CONSENT FROM THE PROPERTY OWNER SHALL BE ACQUIRED BY THE CONTRACTOR PRIOR TO USAGE WITH A COPY OF THE AGREEMENT PROVIDED TO THE VILLAGE.
2. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE CONTRACTR CUTTING LOOPS, THE CONTRACTOR SHALL HAVE THE PROPOSED LOOP LOCATIONS MARKED AND CONTACT THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 TO INSPECT AND APPROVE THE LAYOUT.

UTILITIES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY.
2. COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.
3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
4. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS.
5. ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE VILLAGE.
6. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION OF ANY COMPOENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL "JULIE" AT 1-800-892-0123.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER AND/OR THE NCCSWCD.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS.
5. WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS OF COMPLETION. WHERE WORK HAS TEMPORARILY CEASED FOR FOURTEEN (14) DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE SEVENTH DAY AFTER WORK HAS CEASED.
6. ALL ADJACENT STREETS AND PARKING LOTS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL GENERAL AND SPECIAL REQUIREMENTS, CONDITIONS AND PROVISIONS FOR ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS ISSUED FOR THIS PROJECT.
8. NO STOCKPILING WILL BE ALLOWED ON THE PROJECT SITE.
9. INLET FILTERS SHALL BE PLACED ON ALL OPEN LID STRUCTURES.

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONTROL DEPICTED IN THE APPLICABLE IDOT AND DISTRICT ONE DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.
4. ALL SIGNS, OTHER THAN THOSE WHICH WILL FREQUENTLY BE TURNED, RELOCATED OR COVERED, SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.
5. DRUMS EQUIPPED WITH ONE-WAY FLASHING LIGHTS WILL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, AND AT ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER OR LAW ENFORCEMENT AGENCIES. BARRICADES SHALL BE PLACED AT 50' CENTERS ALONG TANGENTS, 20' CENTERS ALONG TAPERS, AND 10' CENTERS IN CURVES AND RADII.
6. DRUMS AND BARRICADES SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES".
7. THE FIRST WARNING SIGNS IN EACH DIRECTION OF TRAVEL SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS DURING HOURS OF DARKNESS. FLAGS ARE OPTIONAL.
8. EXISTING TRAFFIC CONTROL DEVICES ARE TO BE PROTECTED FROM DAMAGE BY THE CONTACTOR. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
9. W21-1 "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. WORKERS SIGNS MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.
10. "FRESH OIL" SIGNS (W21-2-48) WITH DATE SIGNS SHALL BE ERECTED 48 HOURS PRIOR TO PRIMING.
11. DURING CONSTRUCTION OF PROPOSED IMPROVEMENTS ALONG COOK COUNTY HIGHWAYS, TWO-WAY TRAFFIC SHALL REMAIN OPEN FOR ALL TRAFFIC AT ALL TIMES. IF ANY ACTIVITY REQUIRES ENCROACHMENT INTO A LANE OPEN FOR TRAFFIC, THAT ACTIVITY SHALL BE RESTRICTED TO WITHIN THE HOURS OF 9:00 AM TO 3:00 PM FOLLOWING THE APPLICABLE IDOT AND DISTRICT ONE TRAFFIC CONTROL STANDARDS INCLUDED IN THE PLANS FOR OFF-ROAD AND ON-ROAD APPLICATIONS.
12. IF ANY EXISTING PAVEMENT MARKING AND/OR SIGNING ALONG COOK COUNTY ROADWAYS IS DAMAGED DUE TO CONSTRUCTION OF PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL REPLACE THE DAMAGED TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF COOK COUNTY PER IDOT AND DISTRICT ONE STANDARDS FOR TRAFFIC CONTROL DEVICES, PAVEMENT MARKING, AND SIGNAGE INCLUDED IN THE PLANS.

COMMITMENTS

NONE

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	2
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

USER NAME = JMarvig PLOT SCALE = 1:40
PLOT DATE = 12/9/2024 10:23:16 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2203 - SHT - GEN NOTE 01.dgn
Path:H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2203 - SHT - GEN NOTE 01.dgn

SUMMARY OF QUANTITIES

SPTY.	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY ROADWAY 75% STP-L 25% LA 0005
	20200100	EARTH EXCAVATION	CU YD	7
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	600
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	371
	25200110	SODDING, SALT TOLERANT	SQ YD	371
	25200200	SUPPLEMENTAL WATERING	UNIT	20
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	8
	28000510	INLET FILTERS	EACH	48
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	380
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1506
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	9508
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160
	40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	2551
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	308
	40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	2045
	44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	1339
	44000600	SIDEWALK REMOVAL	SQ FT	2920
	44003100	MEDIAN REMOVAL	SQ FT	60
	44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	200
	44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	200
	44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	400

S - SPECIALTY ITEM

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	3
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

SPTY.	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY ROADWAY 75% STP-L 25% LA 0005
	44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	24
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	62
	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	50
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	100
	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	100
	60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1
	60254340	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	60
S	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	65
S	66900530	SOIL DISPOSAL ANALYSIS	EACH	4
S	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
S	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
S	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	40
	67100100	MOBILIZATION	L SUM	1
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	653
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	653

S - SPECIALTY ITEM

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 2 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	4
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

SPTY.	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY ROADWAY 75% STP-L 25% LA 0005
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	9562
	70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	1710
	70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	618
	70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	151
S	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	437
S	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8932
S	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1788
S	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	539
S	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	162
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	125
S	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	52
S	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
S	87300305	ELECTRIC CABLE IN TRENCH, LEAD-IN, NO. 14 1 PAIR	FOOT	4441
S	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	767
S	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	73
S	87900200	DRILL EXISTING HANDHOLE	EACH	3
S	88102719	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
S	88600100	DETECTOR LOOP, TYPE I	FOOT	794
S	89502200	MODIFY EXISTING CONTROLLER	EACH	1
S	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4500
S	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
S	89502376	REBUILD EXISTING HANDHOLE	EACH	1

S - SPECIALTY ITEM

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 3 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	5
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = JMarvig PLOT SCALE = 1:4
PLOT DATE = 12/9/2024 10:23:25 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - SOO 03.dgn

H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - SOO 03.dgn

SUMMARY OF QUANTITIES

SPTY.	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY ROADWAY 75% STP-L 25% LA 0005
S	X1400378	PEDESTRIAN SIGNAL POST, 5 FT	EACH	2
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50
	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	1417
	X4240460	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH (SPECIAL)	SQ FT	1563
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	104
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	91
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1419
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	17783
	X6025300	CATCH BASINS TO BE ADJUSTED (SPECIAL)	EACH	18
	X6025600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	5
	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3
	X6026200	INLETS TO BE ADJUSTED (SPECIAL)	EACH	4
	X6026624	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	3
S	X7810301	RECESSED REFLECTIVE PAVEMENT MARKER (HMA)	EACH	129
S	X8130130	JUNCTION BOX TO BE ADJUSTED	EACH	2
S	X8140238	REBUILD EXISTING DOUBLE HANDHOLE	EACH	1
S	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
S	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
	Z0018905	DRILL AND GROUT BARS	EACH	504
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103
S	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

S - SPECIALTY ITEM

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

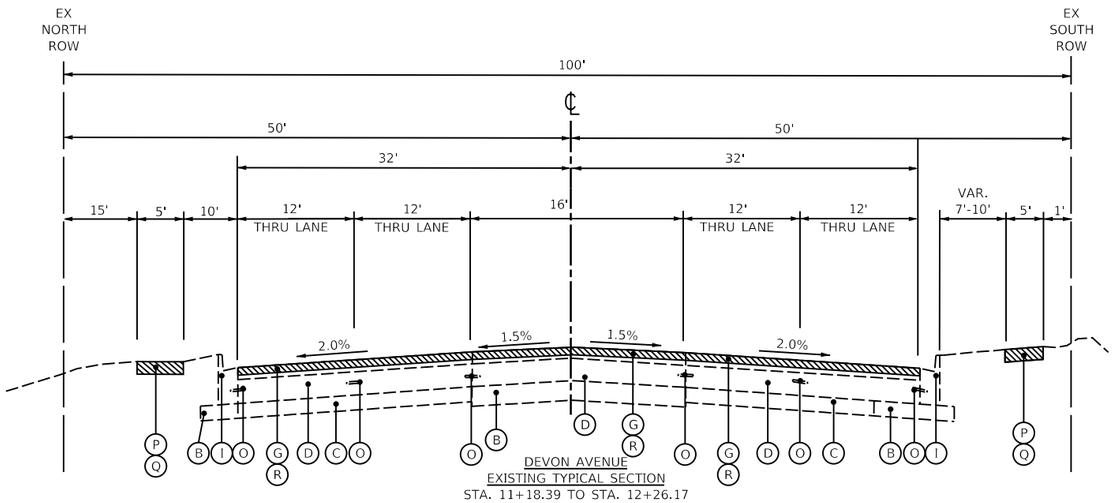
USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

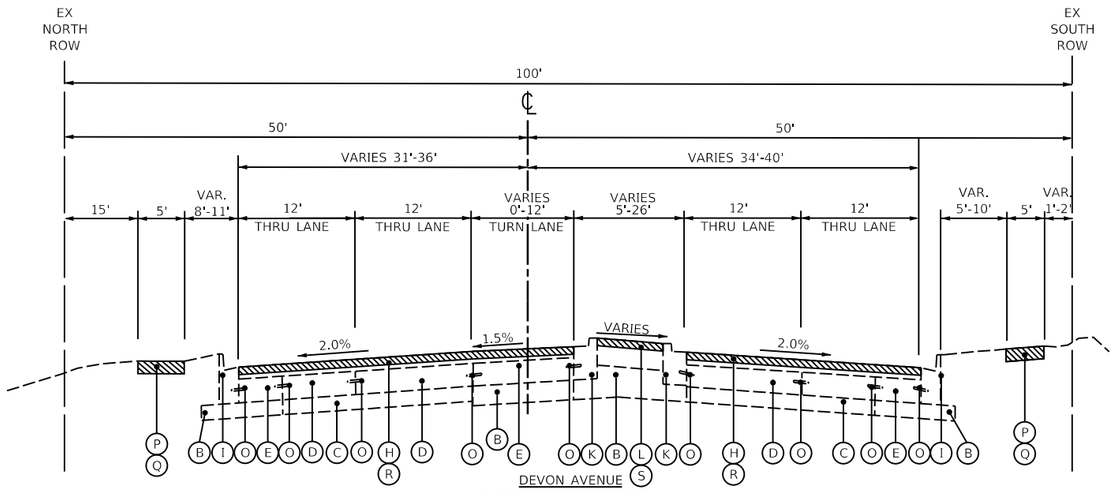
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 4 OF 4 SHEETS | STA. N/A | TO STA. N/A

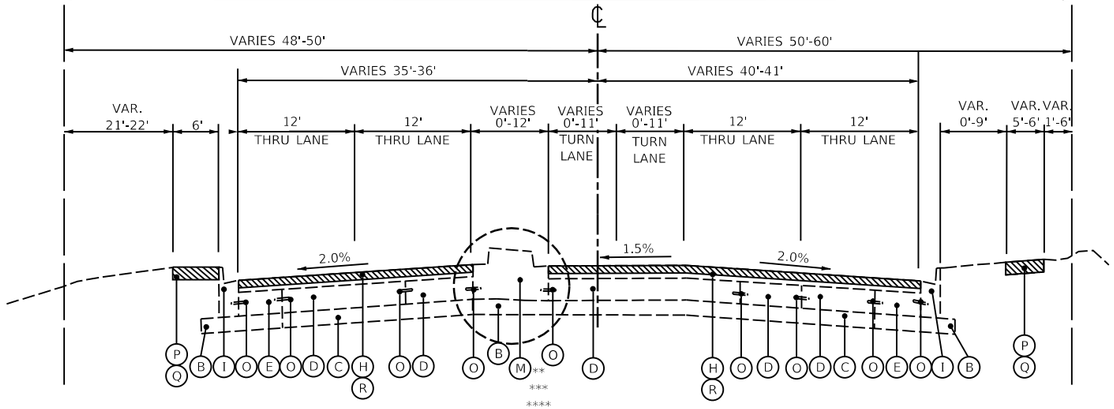
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	6
		CONTRACT NO. 61L07		
		ILLINOIS FED. AID PROJECT		



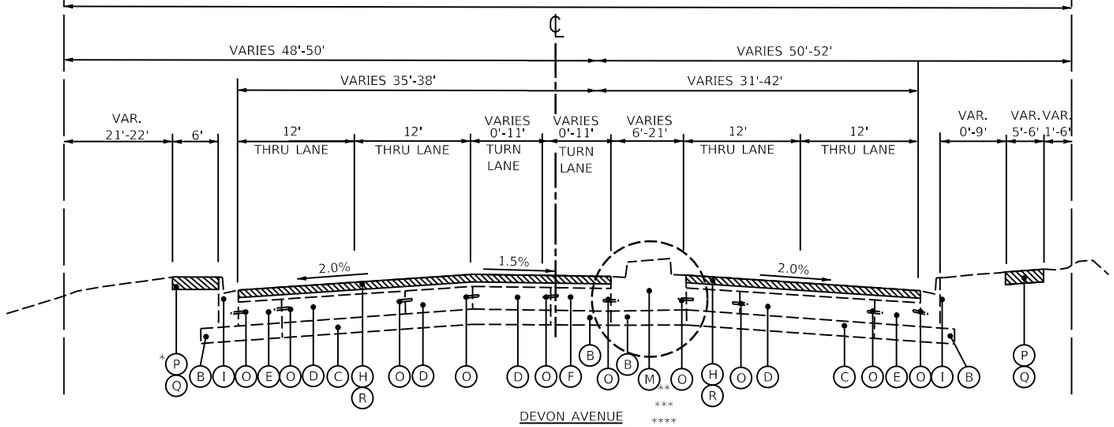
DEVON AVENUE
EXISTING TYPICAL SECTION
STA. 11+18.39 TO STA. 12+26.17



DEVON AVENUE
EXISTING TYPICAL SECTION
STA. 12+26.17 TO STA. 15+02.80



DEVON AVENUE
EXISTING TYPICAL SECTION
STA. 15+02.80 TO STA. 19+80.31
(INTERSECTION STA. 19+80.31 TO STA. 21+52.07)

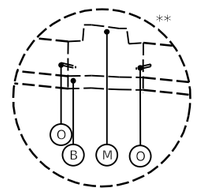


DEVON AVENUE
EXISTING TYPICAL SECTION
STA. 21+52.07 TO STA. 26+81.28
(INTERSECTION STA. 19+80.31 TO STA. 21+52.07)

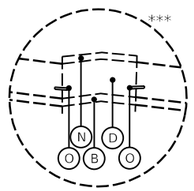
*STA. 21+40.21 TO STA. 22+14.12

EXISTING LEGEND

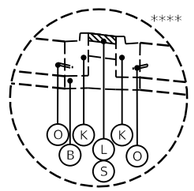
- (A) EXISTING AGGREGATE SUBBASE, 12"
- (B) EXISTING AGGREGATE SUBBASE, 6" & VARIES
- (C) EXISTING AGGREGATE SUBBASE, 4" & VARIES
- (D) EXISTING CONCRETE BASE, 10" & VARIES
- (E) EXISTING CONCRETE BASE, 10"
- (F) EXISTING HMA BASE, 7"
- (G) EXISTING HMA PAVEMENT, 4" & VARIES
- (H) EXISTING HMA PAVEMENT, 7" & VARIES
- (I) EXISTING CONCRETE CURB & GUTTER, TYPE B-6.24
- (J) EXISTING CONCRETE CURB & GUTTER, TYPE B-6.18
- (K) EXISTING CONCRETE CURB & GUTTER, TYPE M-2.12
- (L) EXISTING HMA MEDIAN SURFACE, 12"
- (M) EXISTING MEDIAN, TYPE SB-6.12
- (N) EXISTING MEDIAN, TYPE C-4
- (O) EXISTING #6 TIE BARS, 24" LONG @ 24" C.C. (TO BE SAW CUT WHERE NEEDED)
- (P) EXISTING SIDEWALK
- (Q) SIDEWALK REMOVAL (SEE PLANS FOR LOCATIONS)
- (R) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (4" TYP)
- (S) HOT-MIX ASPHALT SURFACE REMOVAL, 4"



** STA. 17+79.33 TO 19+63.25
STA. 21+69.33 TO 23+93.68



*** STA. 19+63.25 TO 19+80.31
STA. 21+52.07 TO 21+69.33



**** STA. 15+02.80 TO 17+79.33
STA. 23+93.68 TO 29+05.20

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

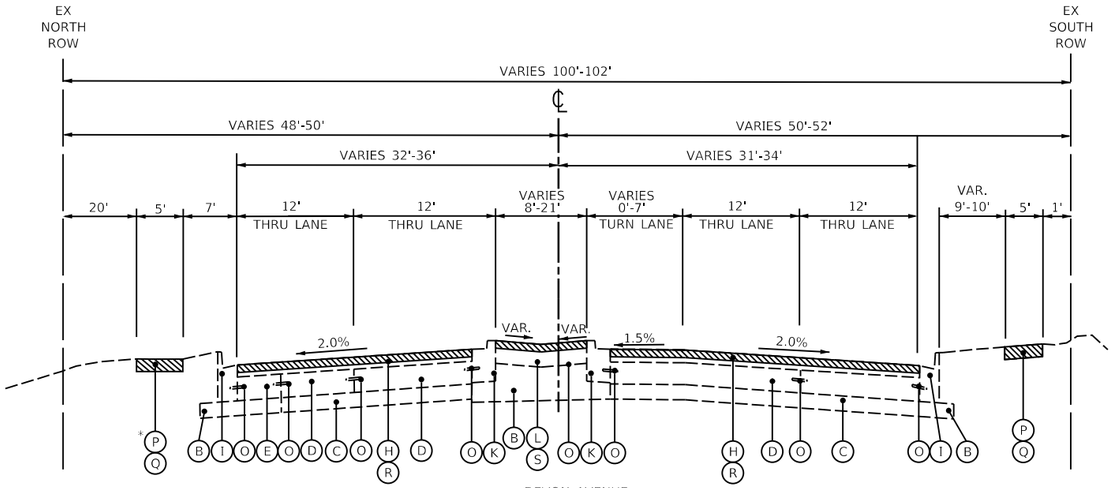
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EXISTING TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	7
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

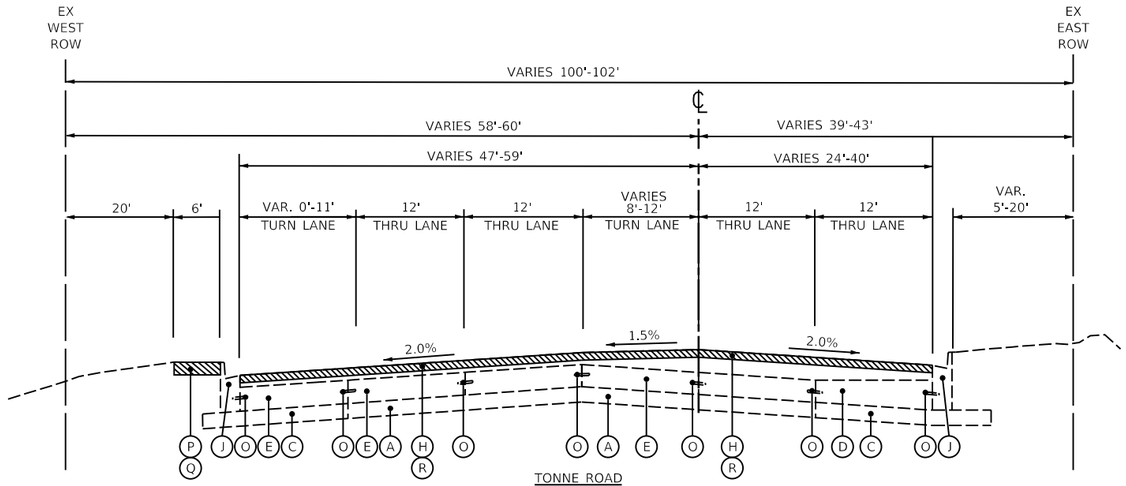
USER NAME = JMarvig PLOT SCALE = 1:10
PLOT DATE = 11/8/2024 2:32:49 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TYP SEC.dgn

Path: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TYP SEC.dgn

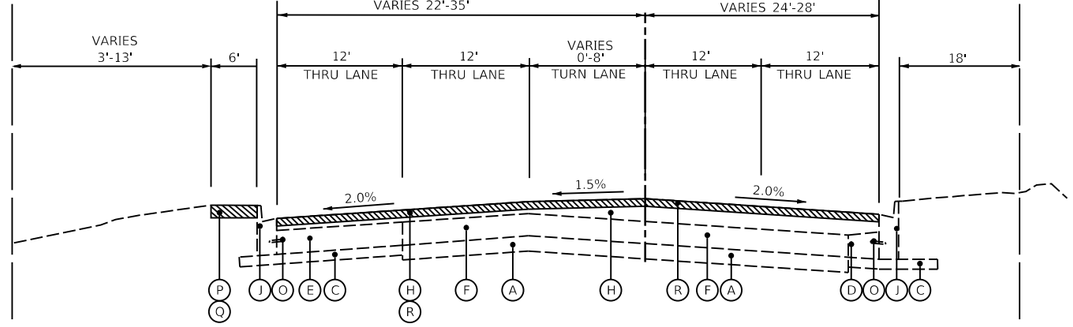


DEVON AVENUE
EXISTING TYPICAL SECTION
STA. 26+81.28 TO STA. 29+05.20

*STA. 28+58.85 TO STA. 29+05.20



TONNE ROAD
EXISTING TYPICAL SECTION
STA. 101+12.63 TO STA. 103+42.63
(INTERSECTION STA. 100+00 TO STA. 101+12.63)



TONNE ROAD
EXISTING TYPICAL SECTION
STA. 103+42.63 TO STA. 105+95.00

EXISTING LEGEND

- (A) EXISTING AGGREGATE SUBBASE, 12"
- (B) EXISTING AGGREGATE SUBBASE, 6" & VARIES
- (C) EXISTING AGGREGATE SUBBASE, 4" & VARIES
- (D) EXISTING CONCRETE BASE, 10" & VARIES
- (E) EXISTING CONCRETE BASE, 10"
- (F) EXISTING HMA BASE, 7"
- (G) EXISTING HMA PAVEMENT, 4" & VARIES
- (H) EXISTING HMA PAVEMENT, 7" & VARIES
- (I) EXISTING CONCRETE CURB & GUTTER, TYPE B-6.24
- (J) EXISTING CONCRETE CURB & GUTTER, TYPE B-6.18
- (K) EXISTING CONCRETE CURB & GUTTER, TYPE M-2.12
- (L) EXISTING HMA MEDIAN SURFACE, 12"
- (M) EXISTING MEDIAN, TYPE SB-6.12
- (N) EXISTING MEDIAN, TYPE C-4
- (O) EXISTING #6 TIE BARS, 24" LONG @ 24" C.C. (TO BE SAW CUT WHERE NEEDED)
- (P) EXISTING SIDEWALK
- (Q) SIDEWALK REMOVAL (SEE PLANS FOR LOCATIONS)
- (R) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (4" TYP)
- (S) HOT-MIX ASPHALT SURFACE REMOVAL, 4"

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

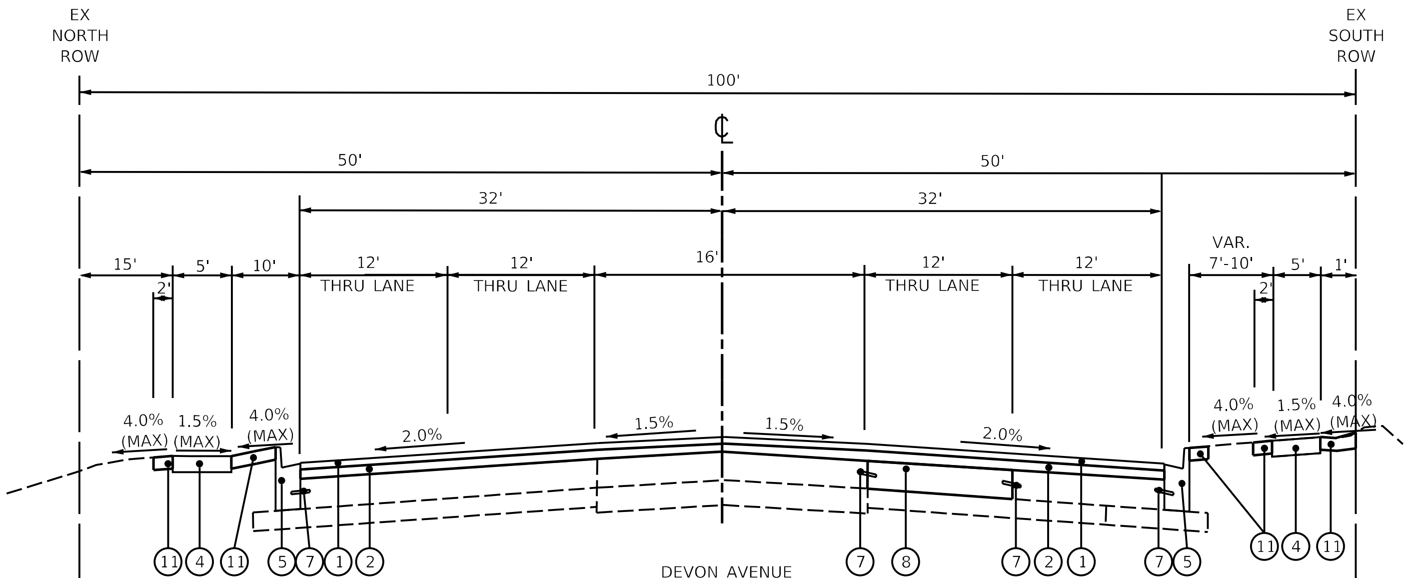
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EXISTING TYPICAL SECTIONS

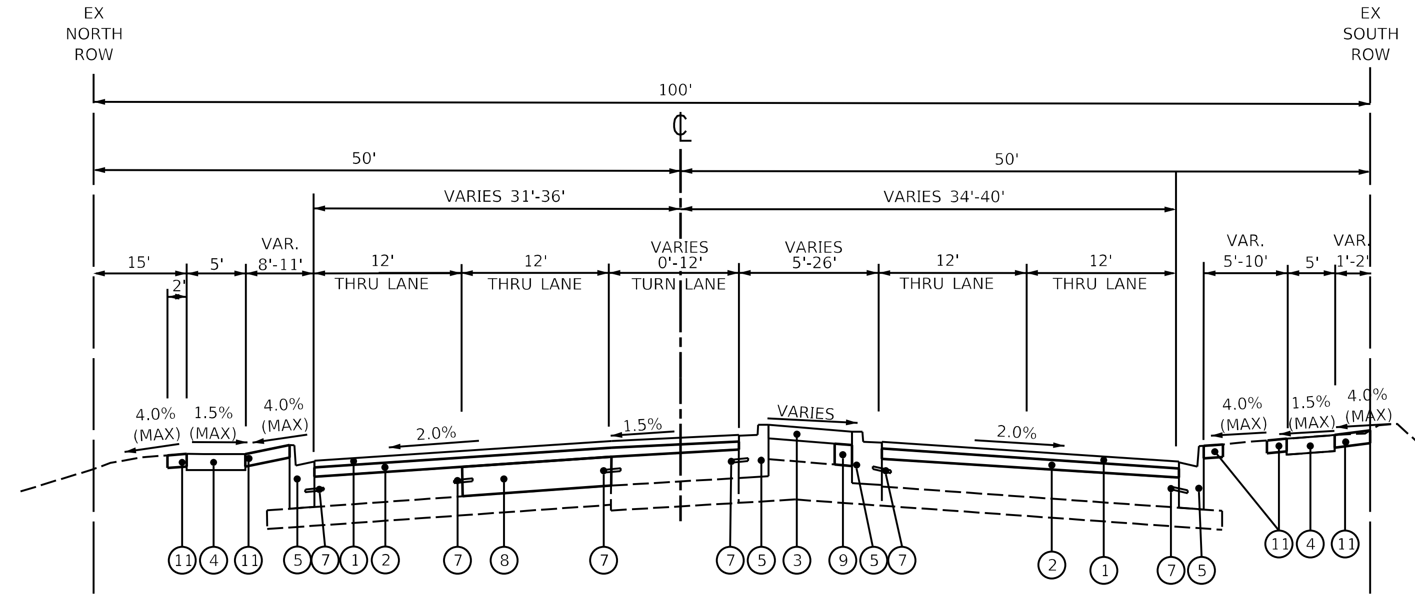
SCALE: N.T.S. | SHEET 2 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	8
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

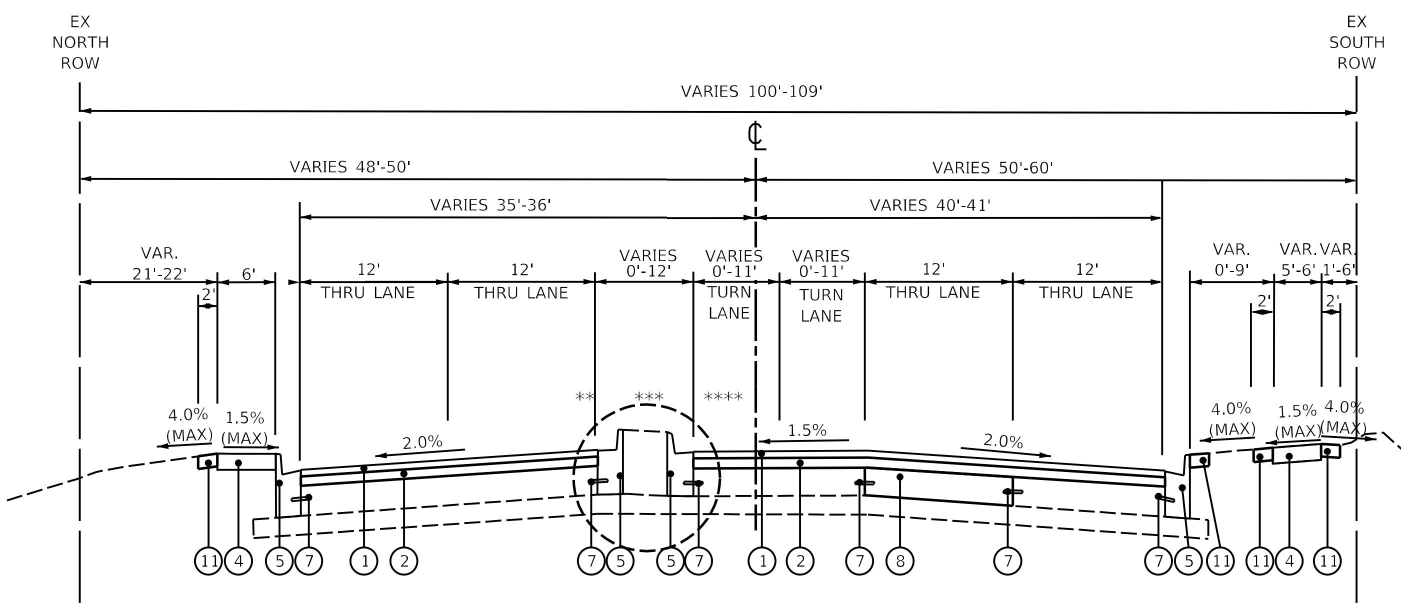
USER NAME = jMurvig PLOT SCALE = 1:10
PLOT DATE = 11/8/2024 2:32:50 PM
MODEL: TS_02
FILE NAME: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TYP SEC.dgn
Path: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TYP SEC.dgn



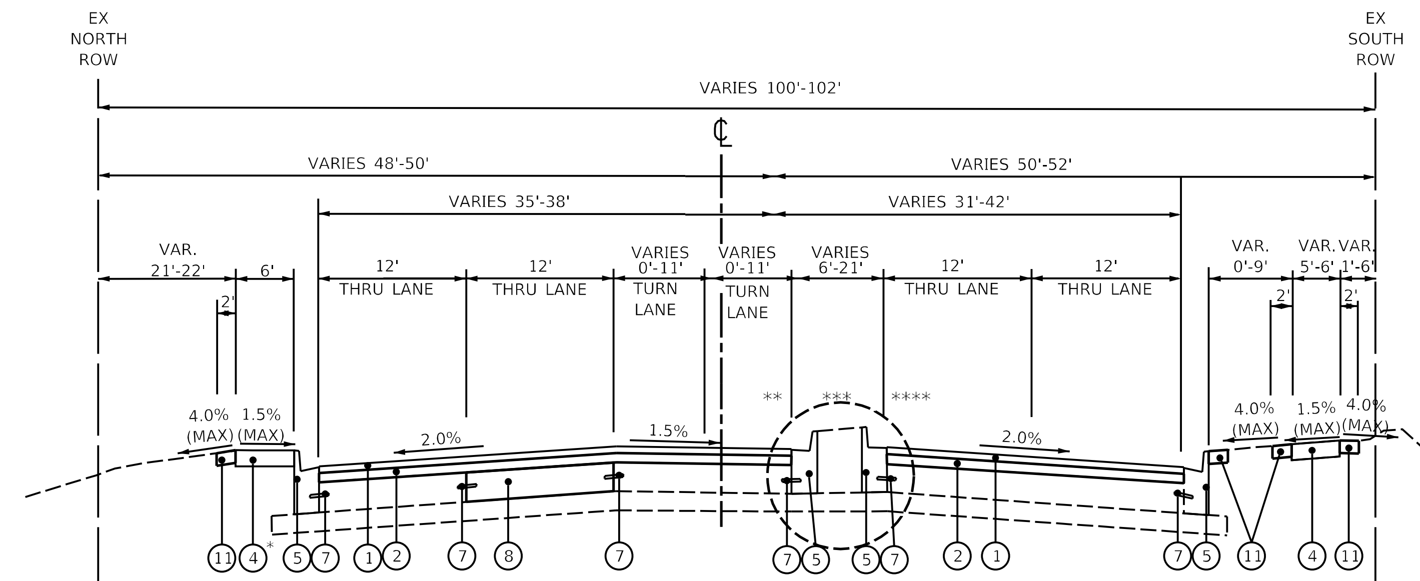
DEVON AVENUE
PROPOSED TYPICAL SECTION
STA. 11+18.39 TO STA. 12+26.17



DEVON AVENUE
PROPOSED TYPICAL SECTION
STA. 12+26.17 TO STA. 15+02.80



DEVON AVENUE
PROPOSED TYPICAL SECTION
STA. 15+02.80 TO STA. 19+80.31
(INTERSECTION STA. 19+80.31 TO STA. 21+52.07)



DEVON AVENUE
PROPOSED TYPICAL SECTION
STA. 21+52.07 TO STA. 26+81.28
(INTERSECTION STA. 19+80.31 TO STA. 21+52.07)

*STA. 21+40.21 TO STA. 22+14.12

NOTES:

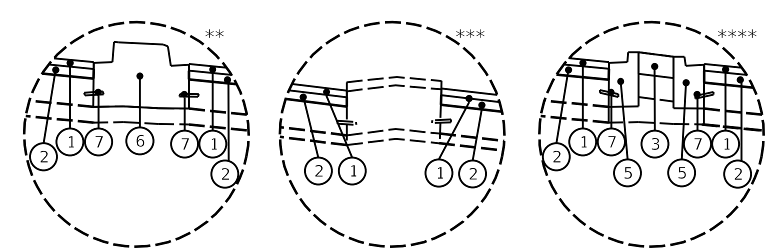
THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE BINDER COURSE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ N_{des}	QMP
DEVON AVENUE AND TONNE ROAD RESURFACING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"	3.5% @ 80 Gyr.	LR 1030-2
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2.25"	4% @ 90 Gyr.	LR 1030-2
DEVON AVENUE MEDIAN RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 4" (IN TWO LIFTS)	4% @ 50 Gyr.	LR 1030-2
CLASS D PATCHING	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	4% @ 90 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTOL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2.			

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22". UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



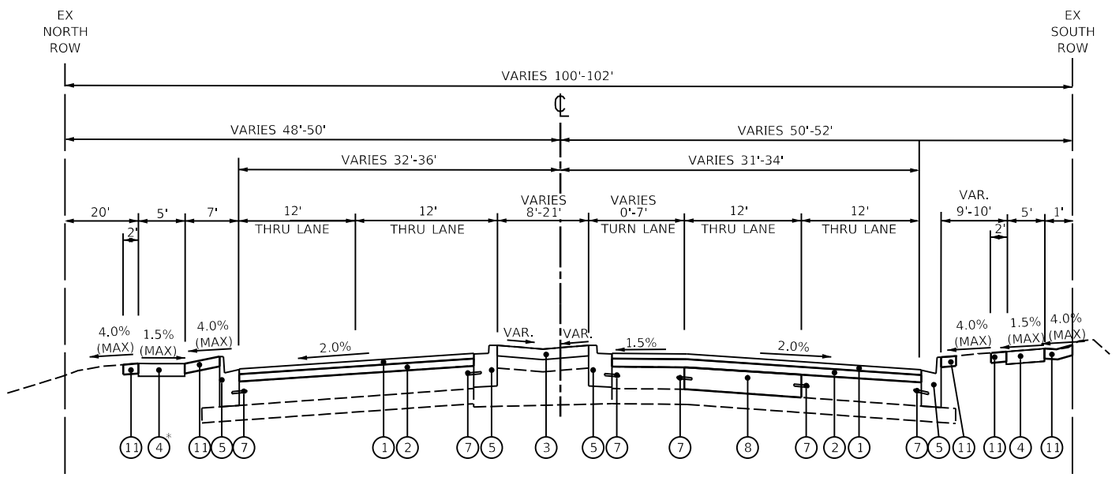
** STA. 17+79.33 TO 19+63.25
STA. 21+69.33 TO 23+93.68

***STA. 19+63.25 TO 19+80.31
STA. 21+52.07 TO 21+69.33

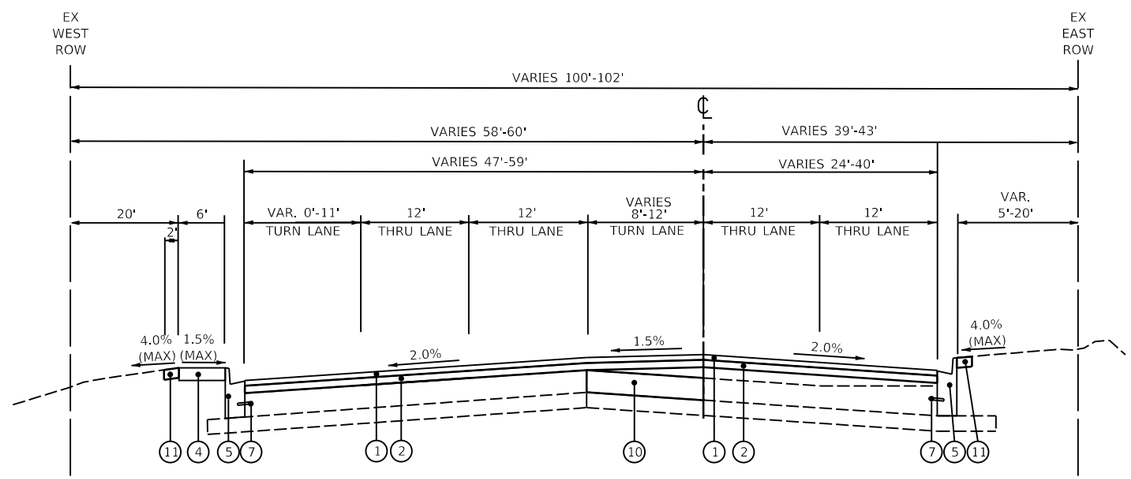
**** STA. 15+02.80 TO 17+79.33
STA. 23+93.68 TO 29+05.20

PROPOSED LEGEND

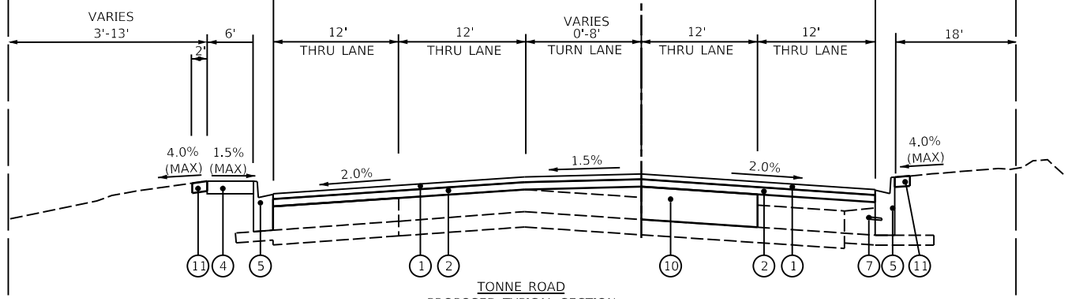
1. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, IL-9.5, MIX "F", N80, 2"
2. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2.25"
3. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 4" (IN TWO LIFTS OF 2")
4. PCC SIDEWALK REMOVAL AND REPLACEMENT, 5" (SEE PLAN AND PROFILE SHEETS FOR LOCATIONS)
5. COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SEE PLANS FOR LOCATIONS)
6. MEDIAN, TYPE SB-6.12
7. DRILLING & GROUTING, #6 TIE BARS, 24" LONG @ 24" CC, 12" OFFSET FROM EXISTING BARS
8. CLASS B PATCHING, 10" OF THE TYPE SPECIFIED (AS NEEDED)
9. CLASS D PATCHING, 8" OF THE TYPE SPECIFIED (AS NEEDED)
10. CLASS D PATCHING, 10" OF THE TYPE SPECIFIED (AS NEEDED)
11. TOPSOIL, 4", SODDING (SALT TOLERANT)



DEVON AVENUE
PROPOSED TYPICAL SECTION
STA. 26+81.28 TO STA. 29+05.20
*STA. 28+58.85 TO STA. 29+05.20



TONNE ROAD
PROPOSED TYPICAL SECTION
STA. 101+12.63 TO STA. 103+42.63
(INTERSECTION STA. 100+00 TO STA. 101+12.63)



TONNE ROAD
PROPOSED TYPICAL SECTION
STA. 103+42.63 TO STA. 105+95.00

PROPOSED LEGEND

1. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, IL-9.5, MIX "F", N80, 2"
2. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2.25"
3. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 4" (IN TWO LIFTS OF 2")
4. PCC SIDEWALK REMOVAL AND REPLACEMENT, 5" (SEE PLAN AND PROFILE SHEETS FOR LOCATIONS)
5. COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SEE PLANS FOR LOCATIONS)
6. MEDIAN, TYPE SB-6.12
7. DRILLING & GROUTING, #6 TIE BARS, 24" LONG @ 24" CC, 12" OFFSET FROM EXISTING BARS
8. CLASS B PATCHING, 10" OF THE TYPE SPECIFIED (AS NEEDED)
9. CLASS D PATCHING, 8" OF THE TYPE SPECIFIED (AS NEEDED)
10. CLASS D PATCHING, 10" OF THE TYPE SPECIFIED (AS NEEDED)
11. TOPSOIL, 4", SODDING (SALT TOLERANT)

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

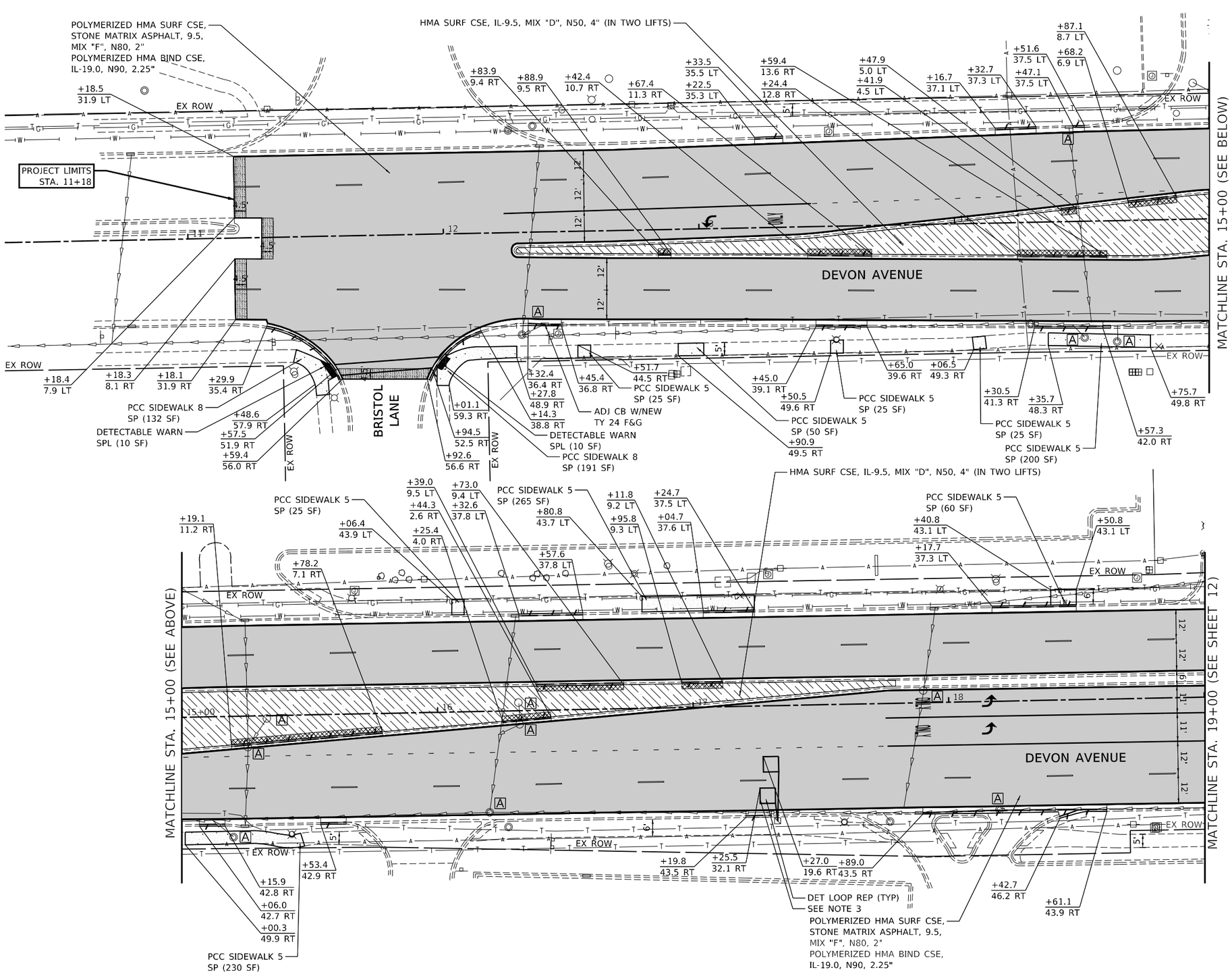
USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 4 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	10
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			



N

0 20 40 60

SCALE IN FEET

LEGEND:

- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
- DETECTABLE WARNING
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT BUTT JOINT
- TRAVERSABLE MEDIAN RESURFACING
- CLASS D PATCHING, 8"
- CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
- ROADWAY RESURFACING LIMITS
- [A] DRAINAGE OR UTILITY STRUCTURE ADJUSTMENT
- [REC] DRAINAGE OR UTILITY STRUCTURE RECONSTRUCTION

1. PERPENDICULAR CURB RAMPS SHALL BE CONSTRUCTED TO IDOT STANDARD 4240010, ALL ELEVATIONS SHALL BE CONFIRMED OR ADJUSTED BY THE CONTRACTOR
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
3. SEE SHEETS 41 AND 42 FOR DETECTOR LOOP LAYOUT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

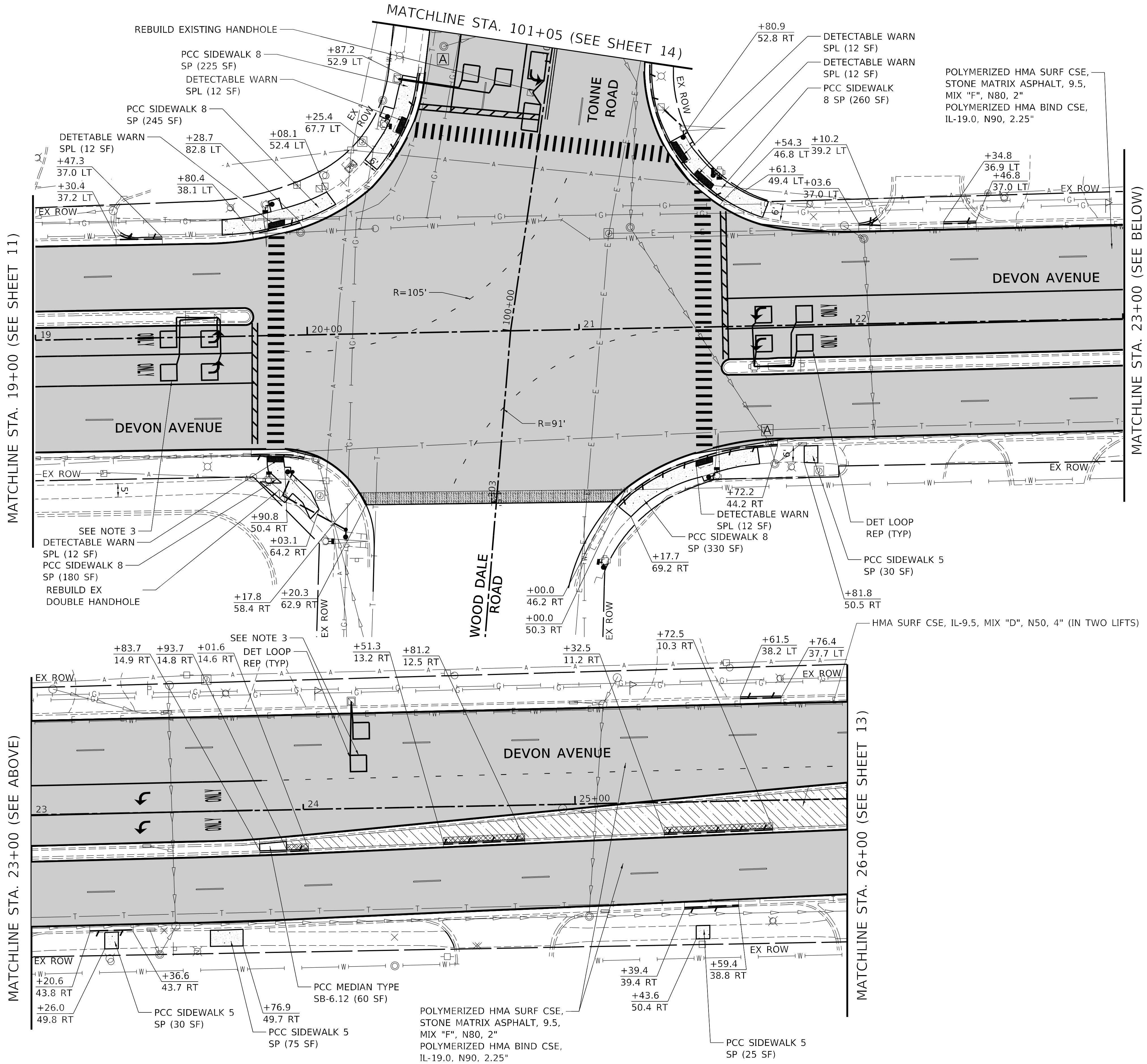
USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
DEVON AVENUE PLAN

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 11+18 | TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	11
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			



LEGEND:

- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
- DETECTABLE WARNING
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT BUTT JOINT
- TRAVERSABLE MEDIAN RESURFACING
- CLASS D PATCHING, 8"
- CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
- ROADWAY RESURFACING LIMITS
- A DRAINAGE OR UTILITY STRUCTURE ADJUSTMENT
- REC DRAINAGE OR UTILITY STRUCTURE RECONSTRUCTION

NOTES:

1. PERPENDICULAR CURB RAMPS SHALL BE CONSTRUCTED TO IDOT STANDARD 4240010. ALL ELEVATIONS SHALL BE CONFIRMED OR ADJUSTED BY THE CONTRACTOR
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
3. SEE SHEETS 41 AND 42 FOR DETECTOR LOOP LAYOUT

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

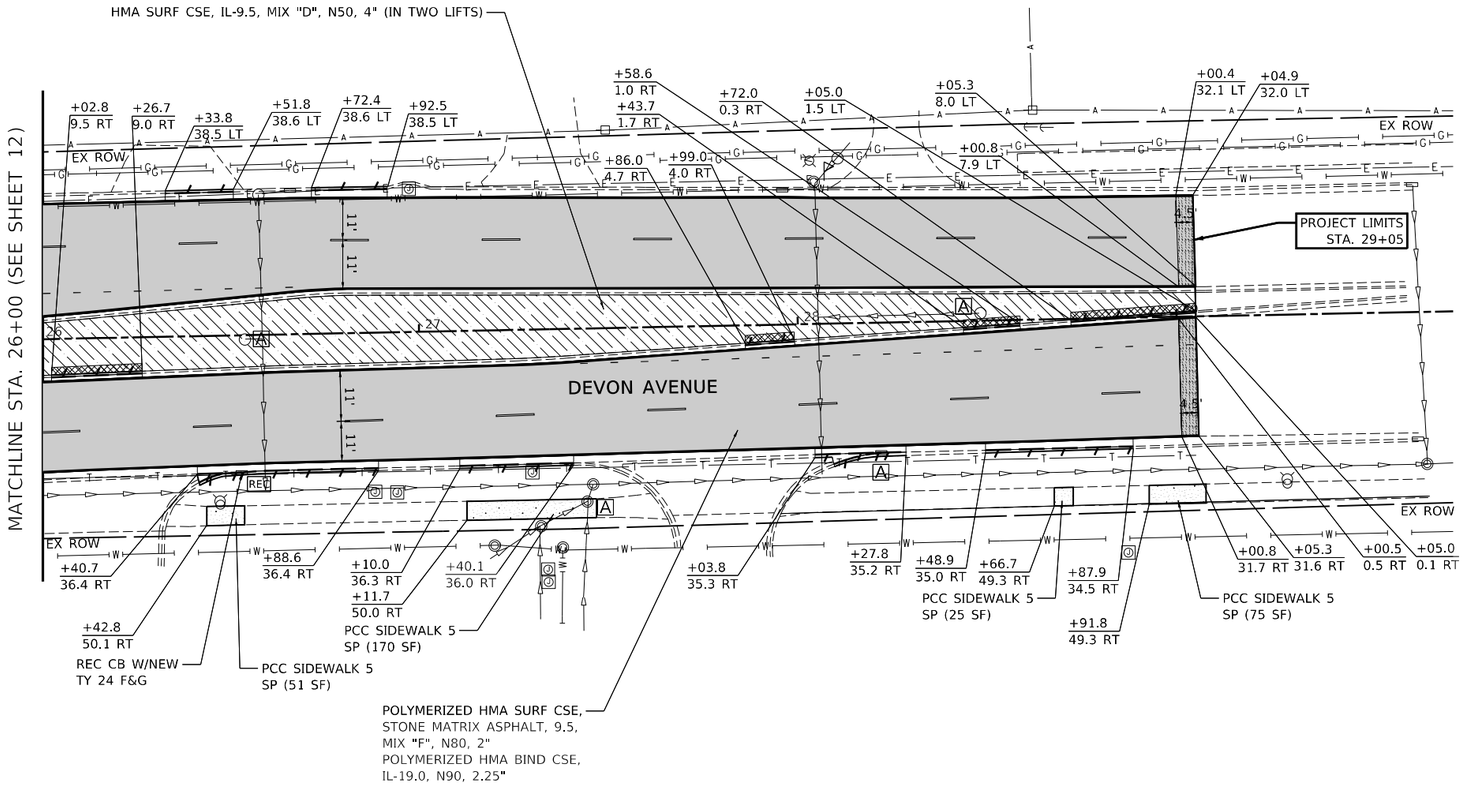
USER NAME -	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE -	CHECKED -	REVISED -	
PLOT DATE -	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
DEVON AVENUE PLAN

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 19+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	12
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		



N

0 20 40 60

SCALE IN FEET

LEGEND:

- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
- DETECTABLE WARNING
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT BUTT JOINT
- TRAVERSABLE MEDIAN RESURFACING
- CLASS D PATCHING, 8"
- CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
- ROADWAY RESURFACING LIMITS
- [A] DRAINAGE OR UTILITY STRUCTURE ADJUSTMENT
- [REC] DRAINAGE OR UTILITY STRUCTURE RECONSTRUCTION

NOTES:

1. PERPENDICULAR CURB RAMPS SHALL BE CONSTRUCTED TO IDOT STANDARD 4240010. ALL ELEVATIONS SHALL BE CONFIRMED OR ADJUSTED BY THE CONTRACTOR
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
3. SEE SHEETS 41 AND 42 FOR DETECTOR LOOP LAYOUT

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

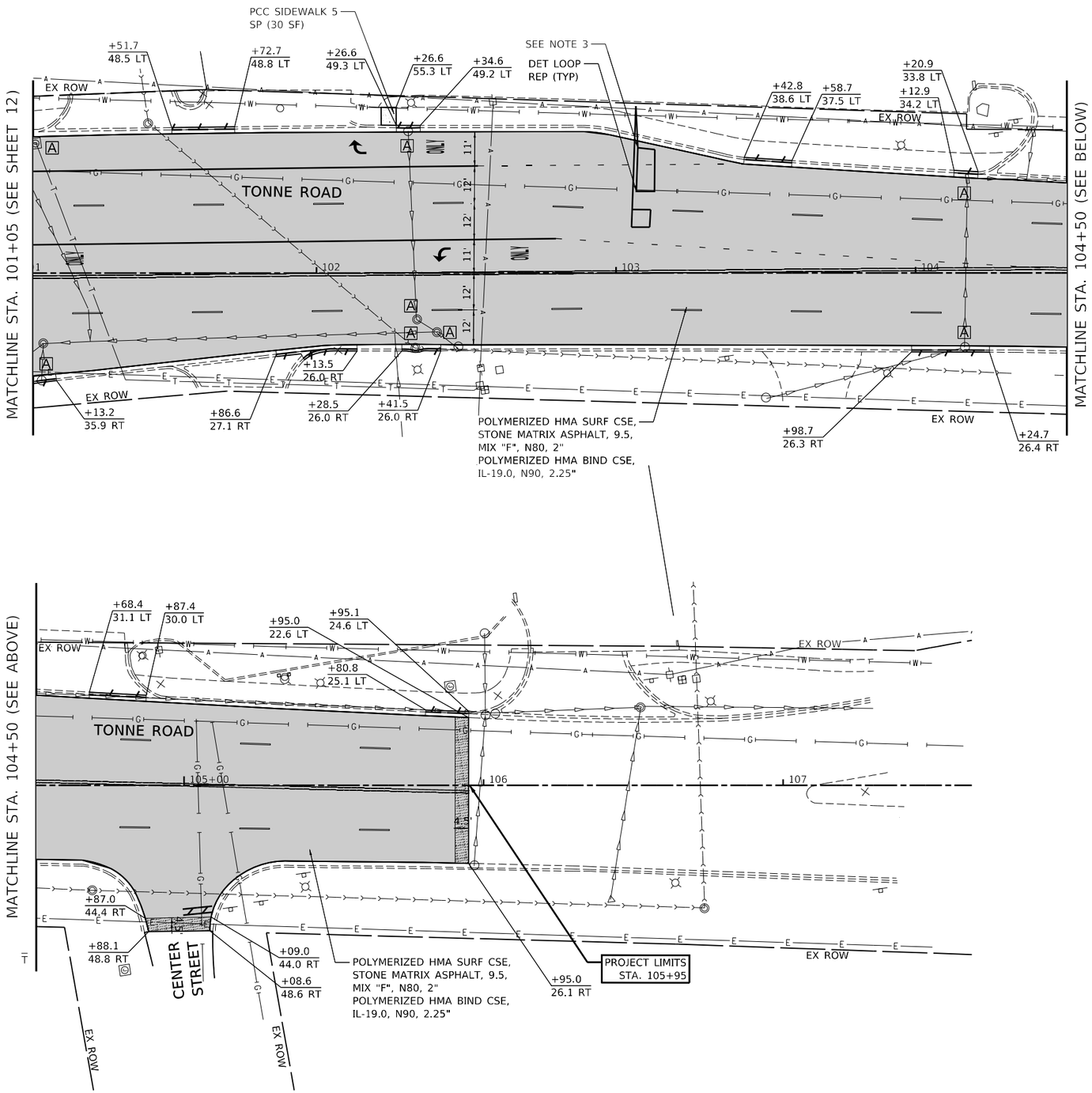
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
DEVON AVENUE PLAN

SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 26+00 | TO STA. 29+05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	13
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = jHarvin PLOT SCALE = 1:40
PLOT DATE = 1/30/2024 2:32:57 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PP 03.dgn
Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PP 03.dgn



0 20 40 60
SCALE IN FEET

LEGEND:

- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
- DETECTABLE WARNING
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT BUTT JOINT
- TRAVERSABLE MEDIAN RESURFACING
- CLASS D PATCHING, 8"
- CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
- ROADWAY RESURFACING LIMITS
- [A] DRAINAGE OR UTILITY STRUCTURE ADJUSTMENT
- [REC] DRAINAGE OR UTILITY STRUCTURE RECONSTRUCTION

NOTES:

1. PERPENDICULAR CURB RAMPS SHALL BE CONSTRUCTED TO IDOT STANDARD 4240010, ALL ELEVATIONS SHALL BE CONFIRMED OR ADJUSTED BY THE CONTRACTOR
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO THE TONNE ROAD CENTERLINE ALIGNMENT
3. SEE SHEETS 41 AND 42 FOR DETECTOR LOOP LAYOUT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

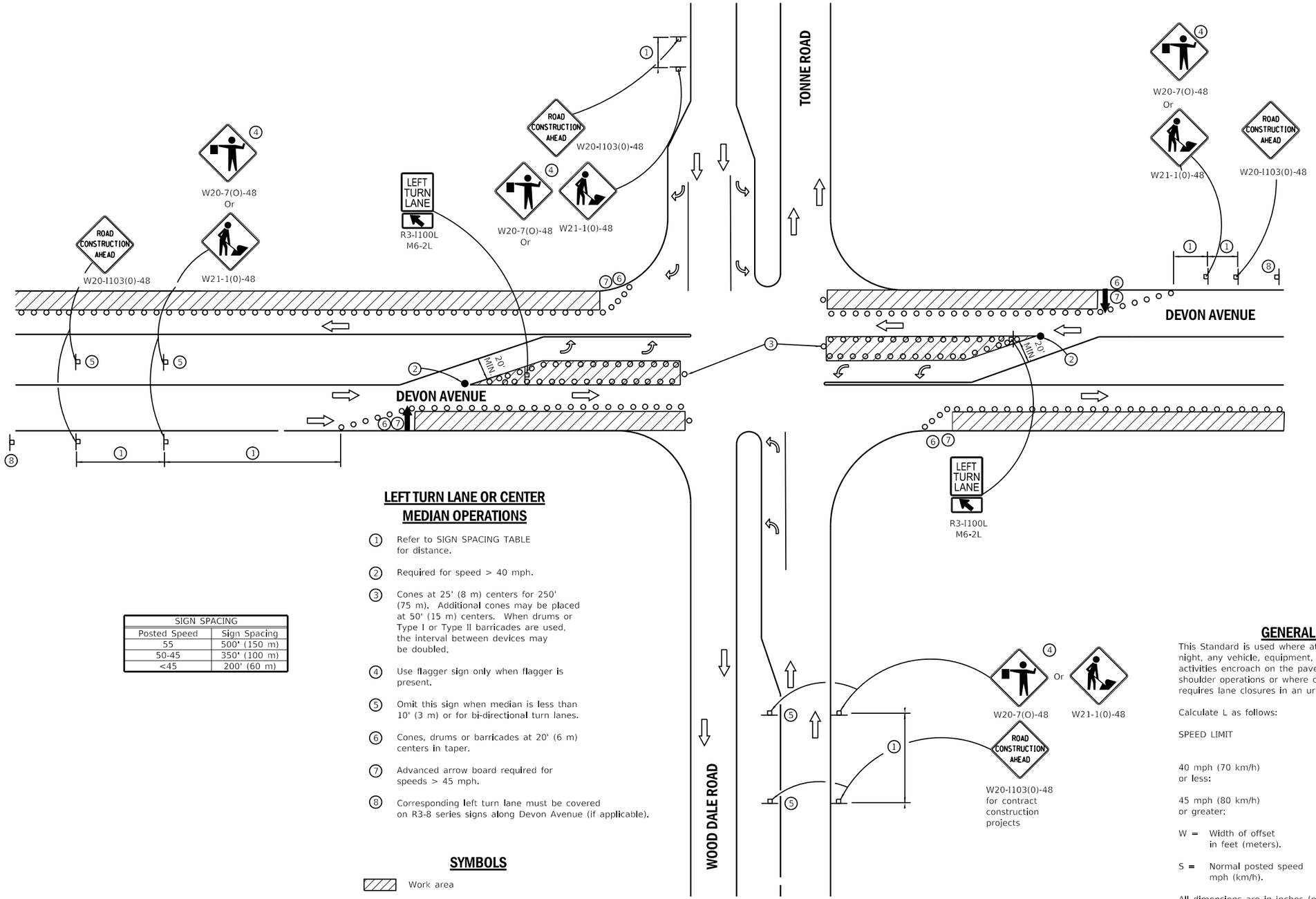
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
TONNE ROAD PLAN

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 101+05 | TO STA. 105+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	14
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = IMarvdp PLOT SCALE = 1:40
PLOT DATE = 7/16/2024 2:32:58 PM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PP 04.dgn

Path: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PP 04.dgn



LEFT TURN LANE OR CENTER MEDIAN OPERATIONS

1. Refer to SIGN SPACING TABLE for distance.
2. Required for speed > 40 mph.
3. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
4. Use flagger sign only when flagger is present.
5. Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
6. Cones, drums or barricades at 20' (6 m) centers in taper.
7. Advanced arrow board required for speeds > 45 mph.
8. Corresponding left turn lane must be covered on R3-8 series signs along Devon Avenue (if applicable).

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

THIS STANDARD SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION STANDARD 701701-10 - URBAN LANE CLOSURE, MULTILANE INTERSECTION

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

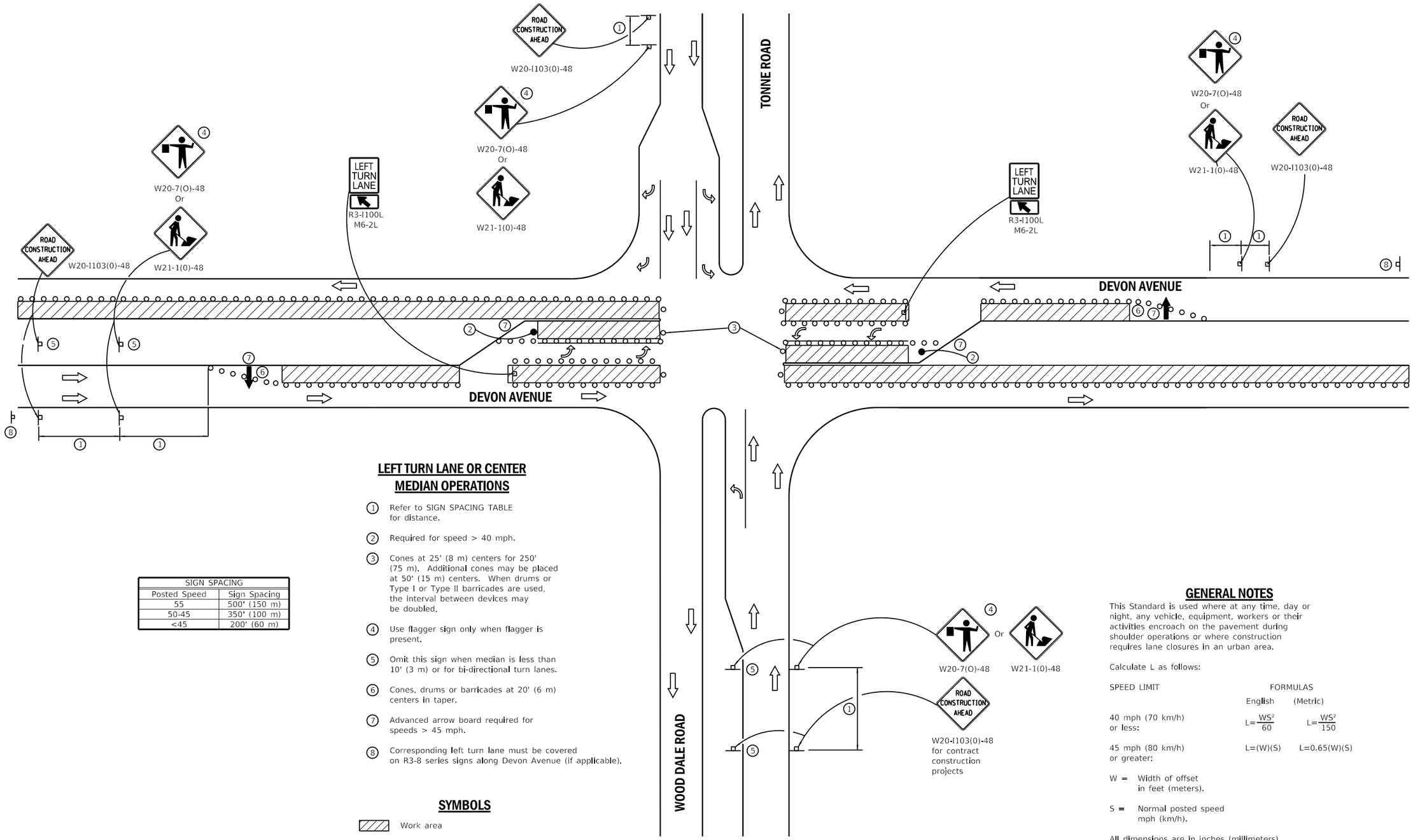
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
URBAN LANE CLOSURE, MULTILANE INTERSECTION, WITH DUAL LEFT TURN LANES
SUGGESTED STAGE 1

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	15
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = JMarvig PLOT SCALE = 1:2.00018
PLOT DATE = 1/8/2024 2:33:00 PM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01A Lane Closure.dgn

Path: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01A Lane Closure.dgn



LEFT TURN LANE OR CENTER MEDIAN OPERATIONS

1. Refer to SIGN SPACING TABLE for distance.
2. Required for speed > 40 mph.
3. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
4. Use flagger sign only when flagger is present.
5. Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
6. Cones, drums or barricades at 20' (6 m) centers in taper.
7. Advanced arrow board required for speeds > 45 mph.
8. Corresponding left turn lane must be covered on R3-8 series signs along Devon Avenue (if applicable).

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

W20-7(O)-48 Or W21-1(0)-48

W20-I103(0)-48 for contract construction projects

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

THIS STANDARD SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION STANDARD 701701-10 - URBAN LANE CLOSURE, MULTILANE INTERSECTION

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

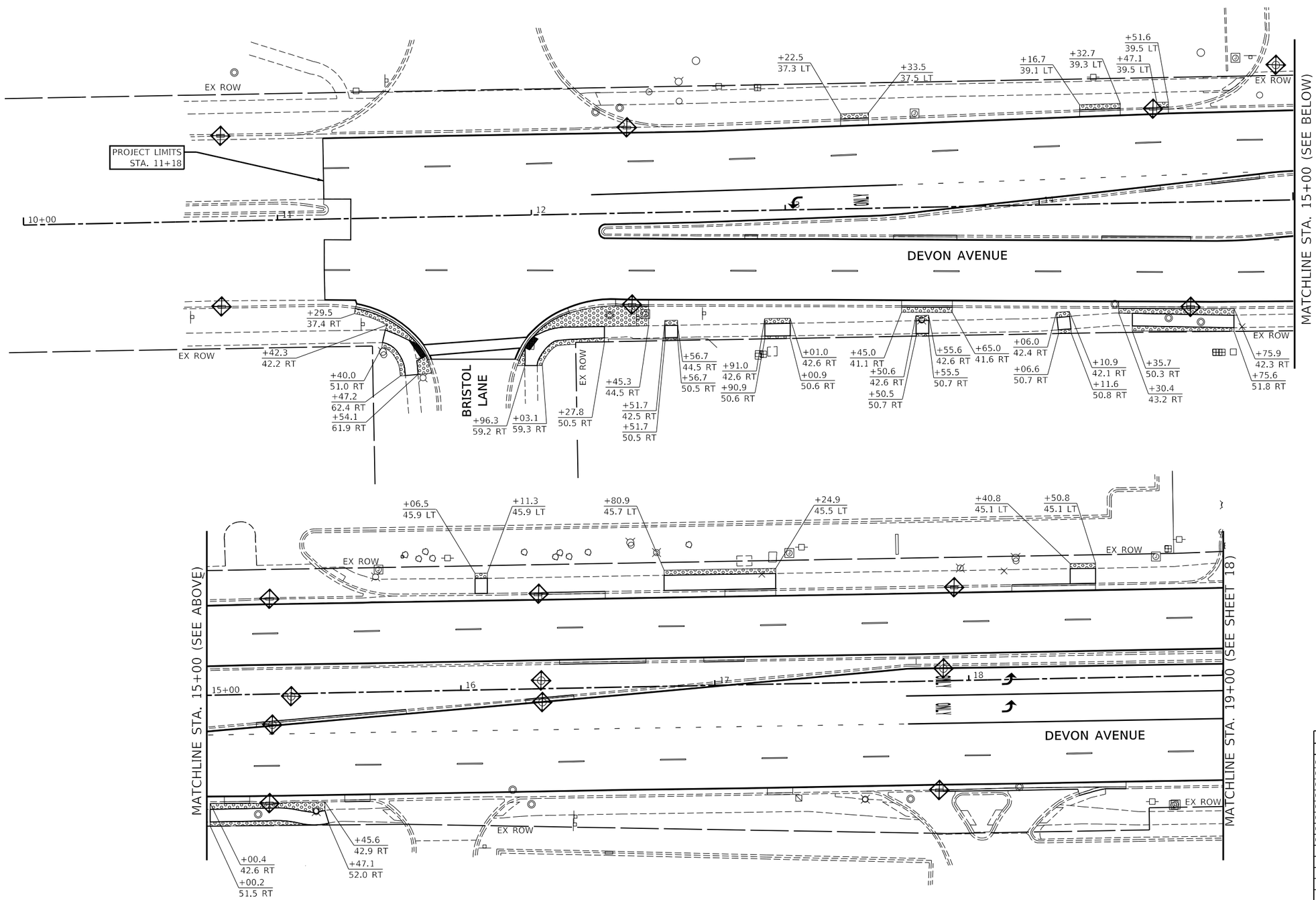
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD RESURFACING
URBAN LANE CLOSURE, MULTILANE INTERSECTION, WITH DUAL LEFT TURN LANES
SUGGESTED STAGE 2

SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	16
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

USER NAME = JMarvig PLOT SCALE = 1:2.00018
PLOT DATE = 1/18/2024 2:53:01 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01B Lane Closure.dgn
Path: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01B Lane Closure.dgn



N

0 20 40 60

SCALE IN FEET

LEGEND

- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

STORM STRUCTURE PROTECTION SCHEDULE			
STRUCTURE	NO.	STATION	OFFSET
CATCH BASIN	1	10+77.2	33.5' RT
CATCH BASIN	2	10+78.2	33.5' LT
CATCH BASIN	3	12+38.3	33.8' LT
CATCH BASIN	4	12+39.0	36.1' LT
CATCH BASIN	5	15+25.5	12.1' RT
CATCH BASIN	6	15+33.1	0.9' RT
CATCH BASIN	7	16+31.7	3.3' LT
CATCH BASIN	8	17+90.0	4.8' LT
INLET	1	14+45.6	36.9' LT
INLET	2	14+58.7	41.2' RT
INLET	3	14+94.1	53.4' LT
INLET	4	15+23.8	43.0' RT
INLET	5	15+25.2	37.6' LT
INLET	6	16+31.1	36.9' LT
INLET	7	16+32.0	5.3' RT
INLET	8	17+87.4	43.0' RT
INLET	9	17+95.0	36.7' LT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

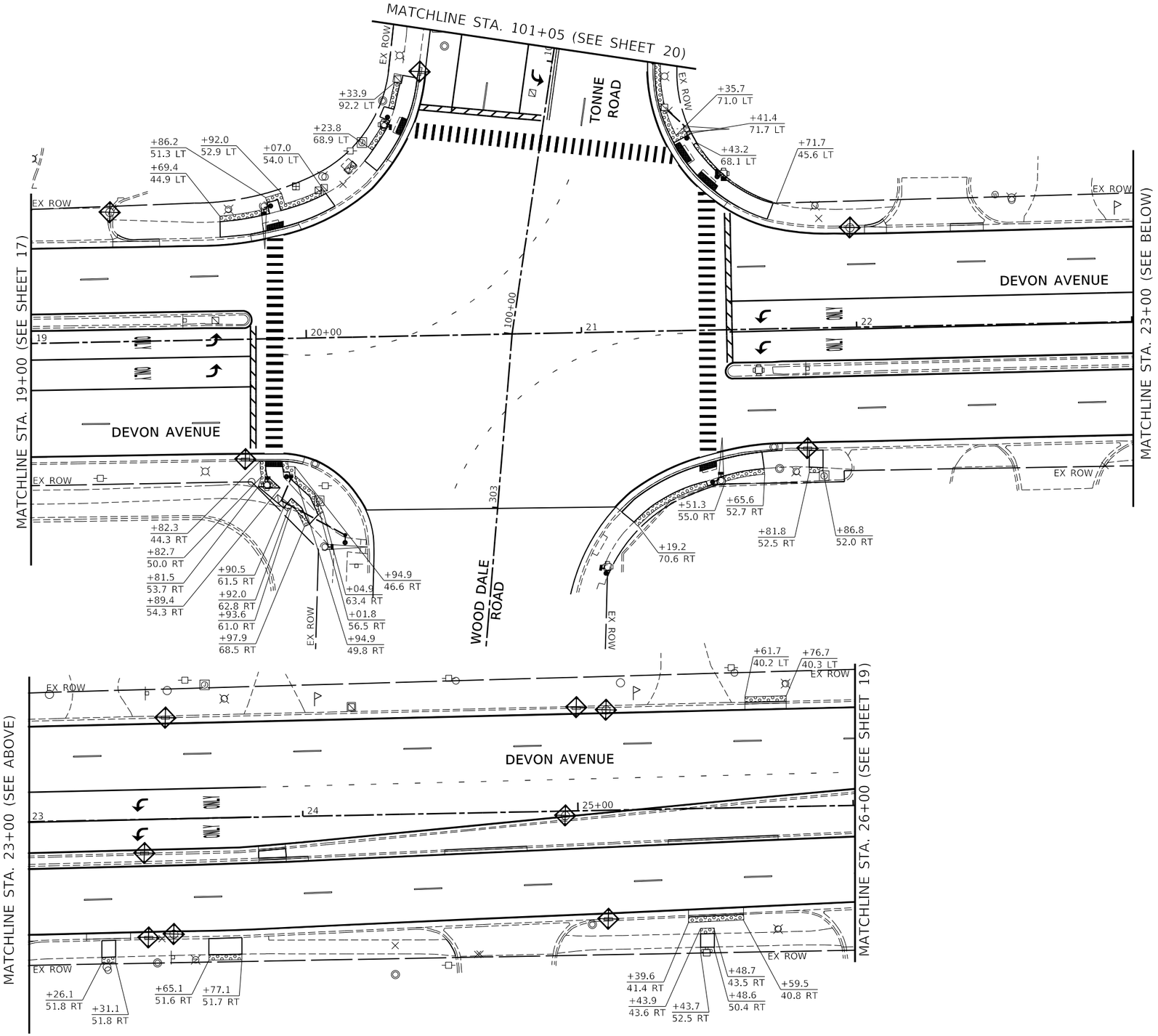
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 11+18 | TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	17
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = MarkVn PLOT SCALE = 1:40
PLOT DATE = 1/30/2024 2:33:02 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 01.dgn
Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 01.dgn



0 20 40 60
SCALE IN FEET

LEGEND

- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

STORM STRUCTURE PROTECTION SCHEDULE			
STRUCTURE	NO.	STATION	OFFSET
CATCH BASIN	9	23+42.1	12.3' RT
CATCH BASIN	10	23+50.7	36.9' LT
CATCH BASIN	11	23+52.3	41.9' RT
CATCH BASIN	12	24+95.3	1.5' RT
CATCH BASIN	13	25+10.3	39.5' RT
CATCH BASIN	14	25+10.9	36.4' LT
INLET	10	19+29.5	47.0' LT
INLET	11	19+77.0	43.6' RT
INLET	12	20+43.1	95.9' LT
INLET	13	21+81.3	43.7' RT
INLET	14	21+98.3	36.2' LT
INLET	15	23+43.1	42.9' RT
INLET	16	25+00.2	37.6' LT

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

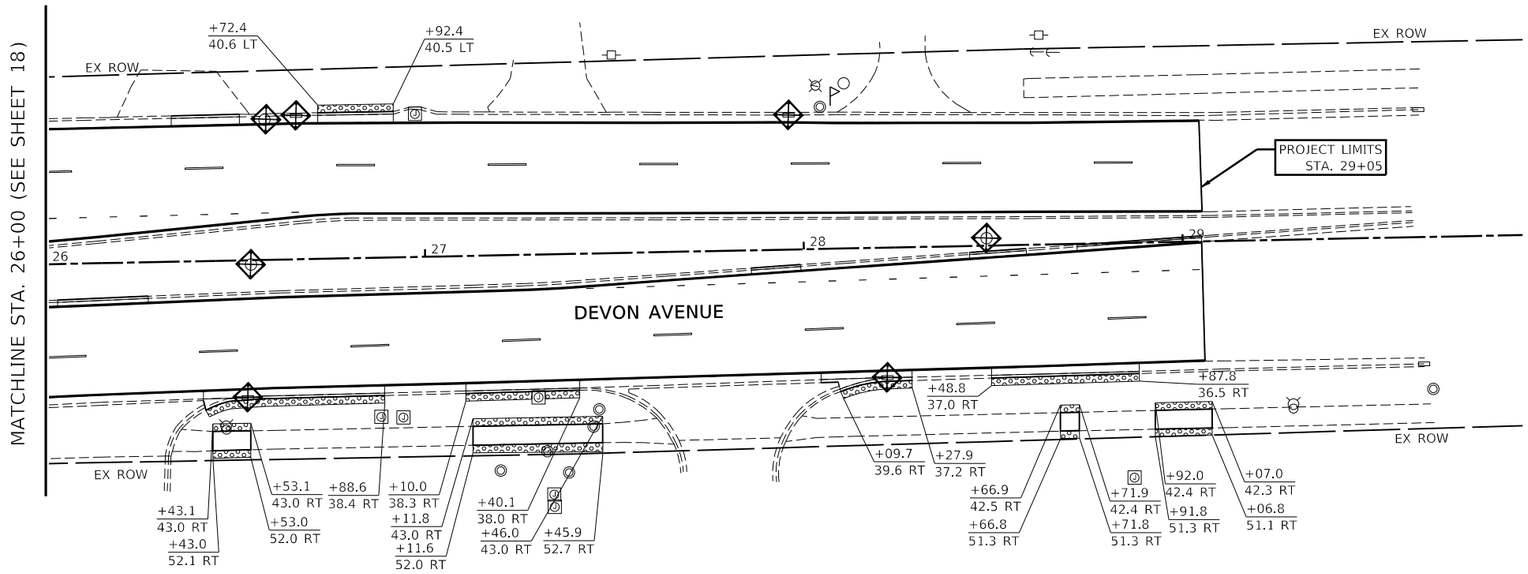
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

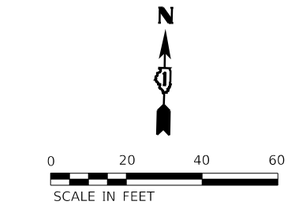
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 19+00 | TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	18
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = tMarvin PLOT SCALE = 1:40
PLOT DATE = 2/9/2024 10:23:49 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 02.dgn
Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 02.dgn





LEGEND

- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

STORM STRUCTURE PROTECTION SCHEDULE			
STRUCTURE	NO.	STATION	OFFSET
CATCH BASIN	15	26+52.4	36.2' RT
CATCH BASIN	16	26+53.9	1.0' RT
CATCH BASIN	17	26+58.8	37.1' LT
CATCH BASIN	18	28+21.4	34.2' RT
CATCH BASIN	19	28+48.3	2.0' LT
INLET	17	26+66.6	37.9' LT
INLET	18	27+96.5	35.6' LT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

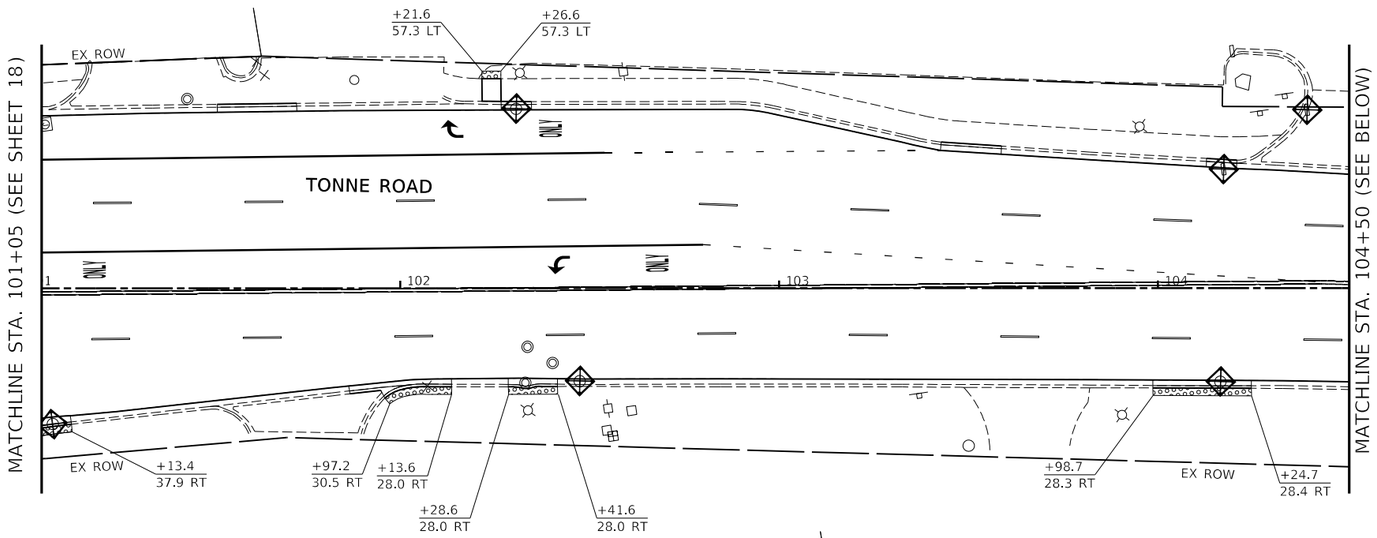
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

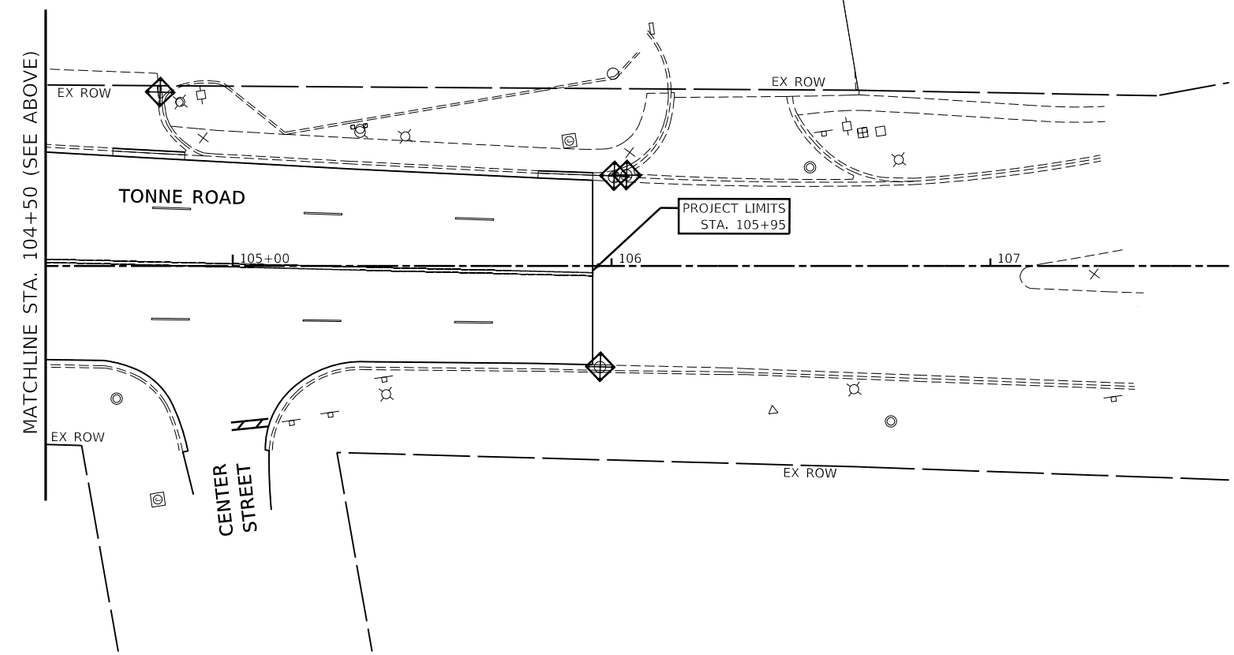
DEVON AVENUE AND TONNE ROAD INTERSECTING RESURFACING
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 26+00 | TO STA. 29+05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	19
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

USER NAME = JMarvip PLOT SCALE = 1:40
PLOT DATE = 10/2/2024 2:33:04 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 03.dgn
Path:H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 03.dgn





0 20 40 60
SCALE IN FEET

LEGEND

- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE TONNE ROAD CENTERLINE ALIGNMENT

STORM STRUCTURE PROTECTION SCHEDULE			
STRUCTURE	NO.	STATION	OFFSET
CATCH BASIN	20	102+30.6	47.5' LT
CATCH BASIN	21	102+47.4	24.5' RT
CATCH BASIN	22	104+16.5	24.7' RT
CATCH BASIN	23	104+17.4	31.5' LT
CATCH BASIN	24	106+04.0	24.1' LT
INLET	19	101+08.1	35.8' RT
INLET	20	104+19.6	62.5' LT
INLET	21	104+80.9	45.9' LT
INLET	22	105+97.1	26.6' RT
INLET	23	106+00.6	23.7' LT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

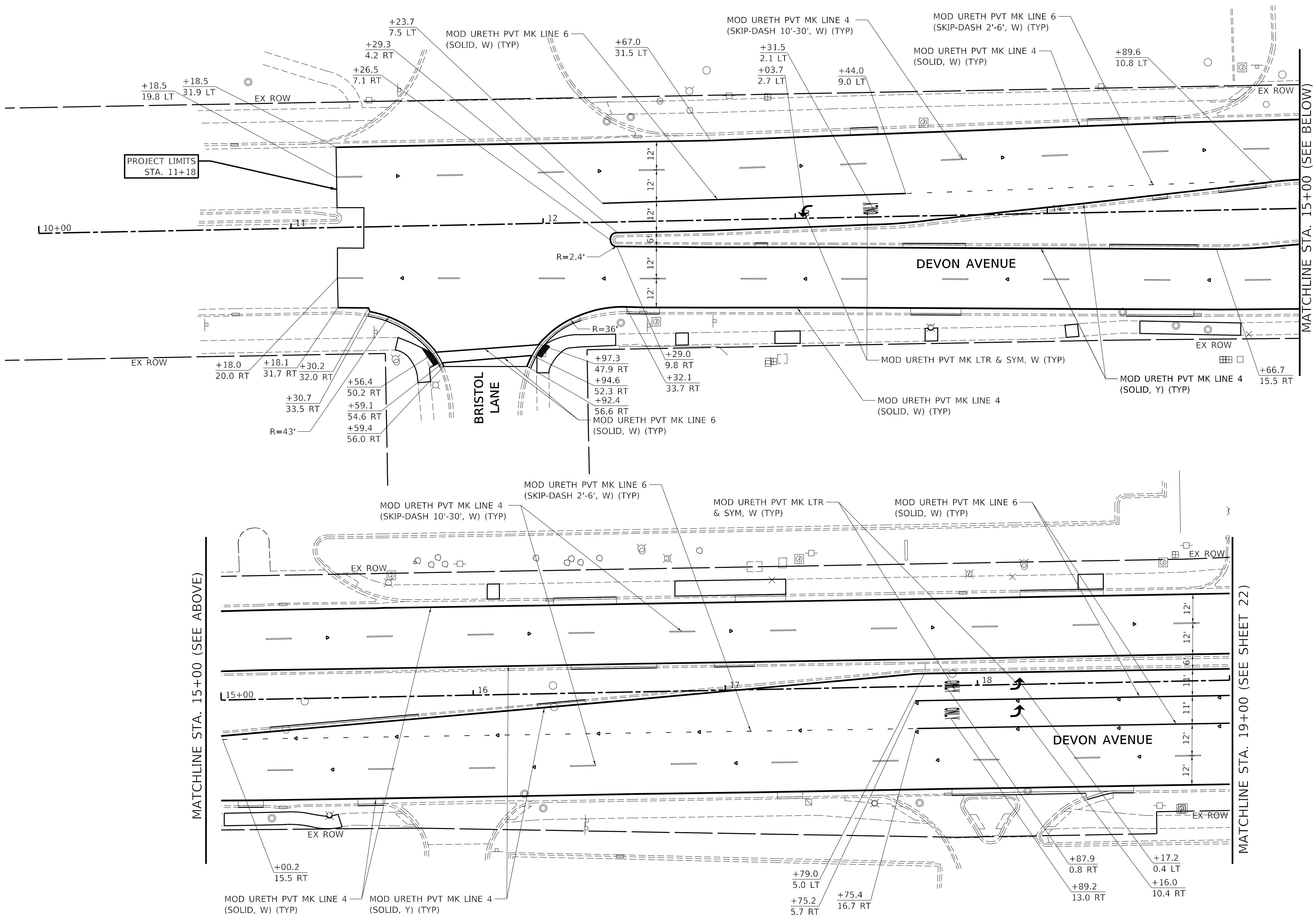
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 101+05 | TO STA. 105+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	20
		CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

USER NAME = lMarvig PLOT SCALE = 1:40
PLOT DATE = 1/10/2024 2:33:06 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 04.dgn

Path: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - EROS 04.dgn



LEGEND:

- ONE-WAY CRYSTAL RECESSED REFLECTIVE PAVEMENT MARKER
- TWO-WAY AMBER RECESSED REFLECTIVE PAVEMENT MARKER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
2. ALL PAVEMENT MARKINGS ALONG COOK COUNTY MAINTAINED ROADS SHALL BE MODIFIED URETHANE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

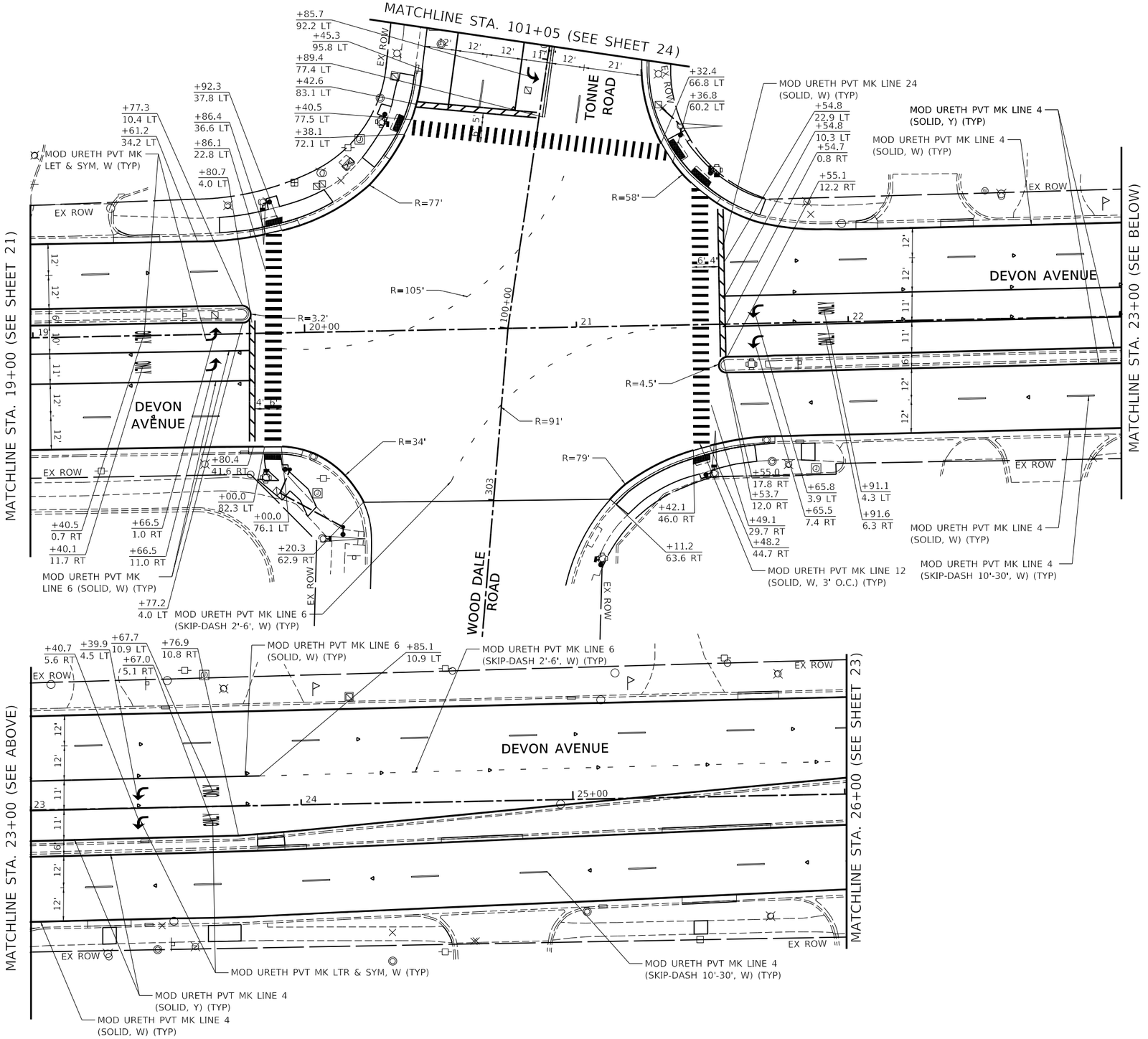
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING PAVEMENT MARKING PLAN

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 11+18 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	21

CONTRACT NO. 61L07

ILLINOIS FED. AID PROJECT



LEGEND:

- ONE-WAY CRYSTAL RECESSED REFLECTIVE PAVEMENT MARKER
- TWO-WAY AMBER RECESSED REFLECTIVE PAVEMENT MARKER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

2. ALL PAVEMENT MARKINGS ALONG COOK COUNTY MAINTAINED ROADS SHALL BE MODIFIED URETHANE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

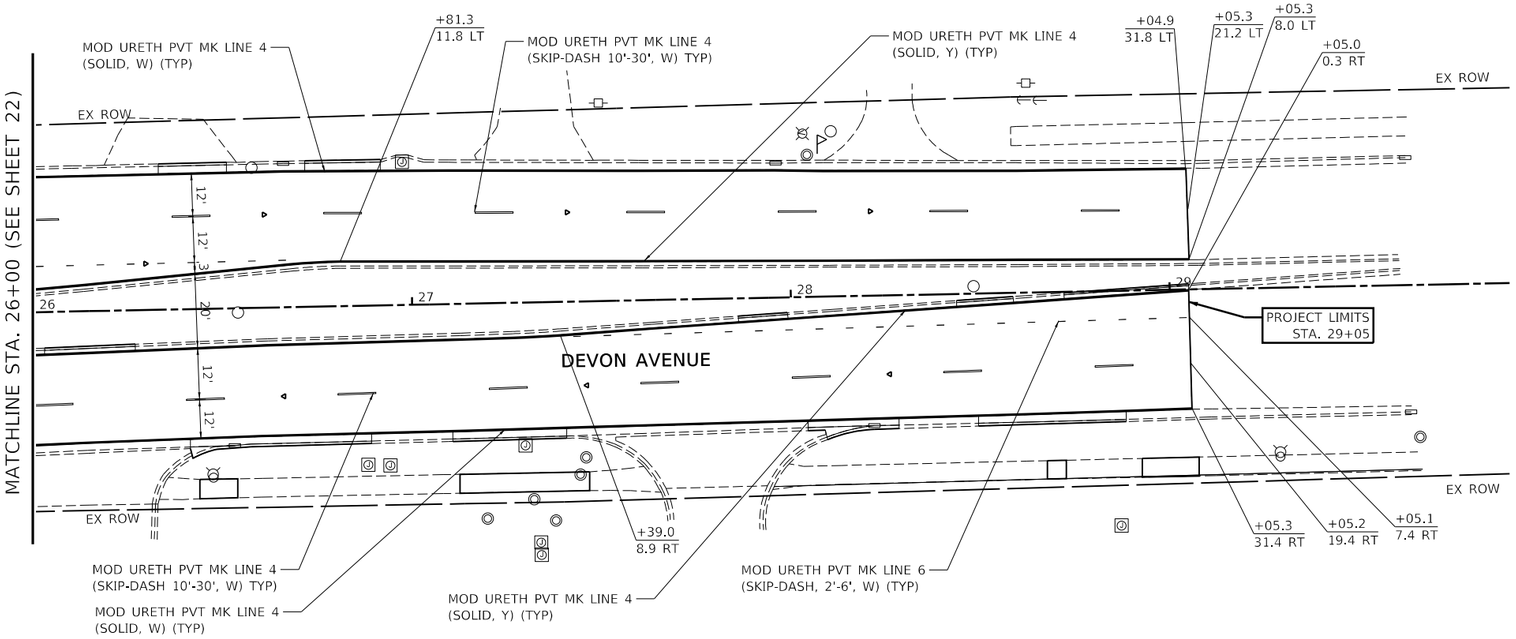
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
PAVEMENT MARKING PLAN

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 19+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	22
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = IMarvdp PLOT SCALE = 1:40
PLOT DATE = 2/9/2024 10:23:57 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 02.dgn
Path: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 02.dgn



N

0 20 40 60

SCALE IN FEET

LEGEND:

- ONE-WAY CRYSTAL RECESSED REFLECTIVE PAVEMENT MARKER
- TWO-WAY AMBER RECESSED REFLECTIVE PAVEMENT MARKER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

2. ALL PAVEMENT MARKINGS ALONG COOK COUNTY MAINTAINED ROADS SHALL BE MODIFIED URETHANE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

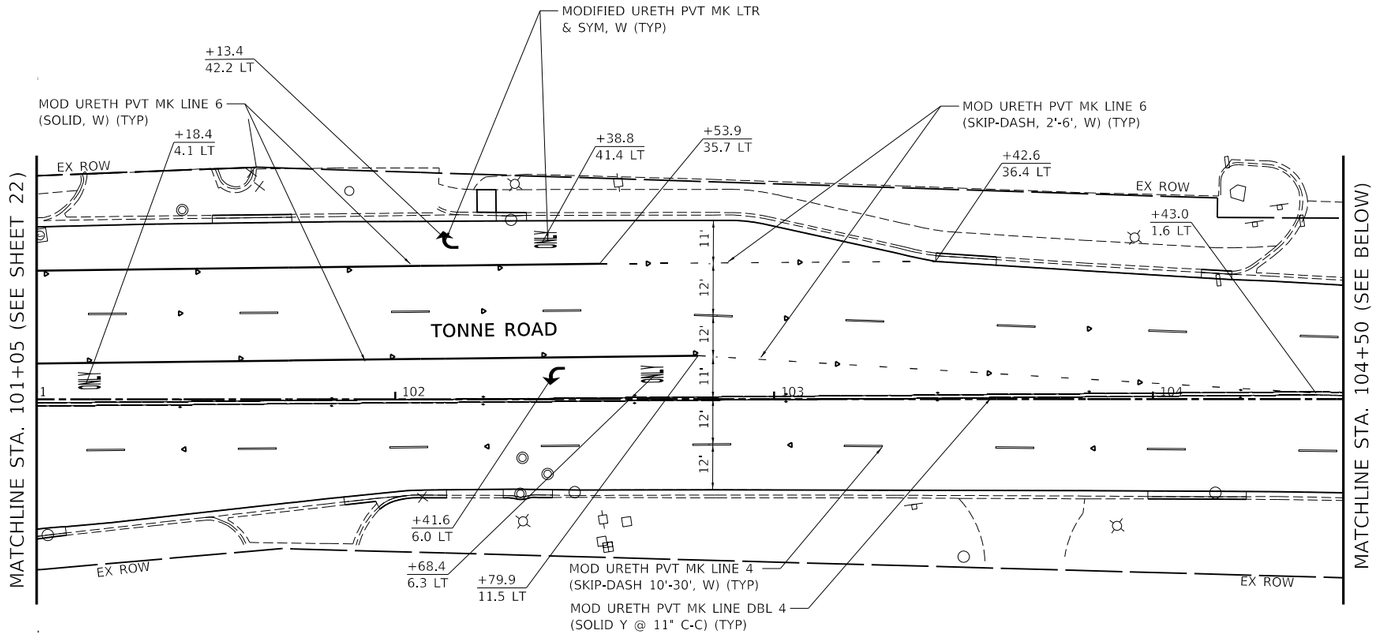
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

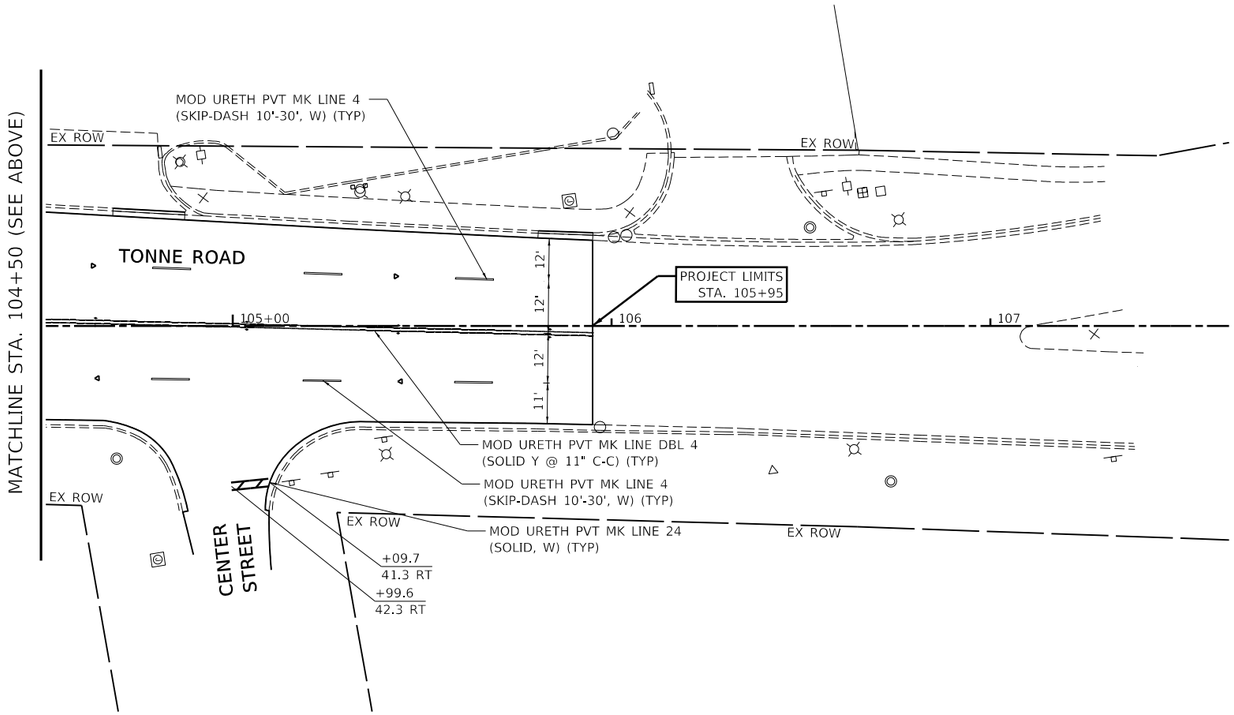
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
PAVEMENT MARKING PLAN

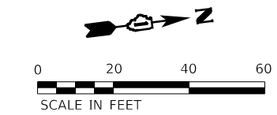
SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 26+00 | TO STA. 29+05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	23
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = JMarvip PLOT SCALE = 1:40
PLOT DATE = 10/2/2024 2:33:09 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 03.dgn
Path:H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 03.dgn







LEGEND:

- ONE-WAY CRYSTAL RECESSED REFLECTIVE PAVEMENT MARKER
- TWO-WAY AMBER RECESSED REFLECTIVE PAVEMENT MARKER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE TONNE ROAD CENTERLINE ALIGNMENT

2. ALL PAVEMENT MARKINGS ALONG COOK COUNTY MAINTAINED ROADS SHALL BE MODIFIED URETHANE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

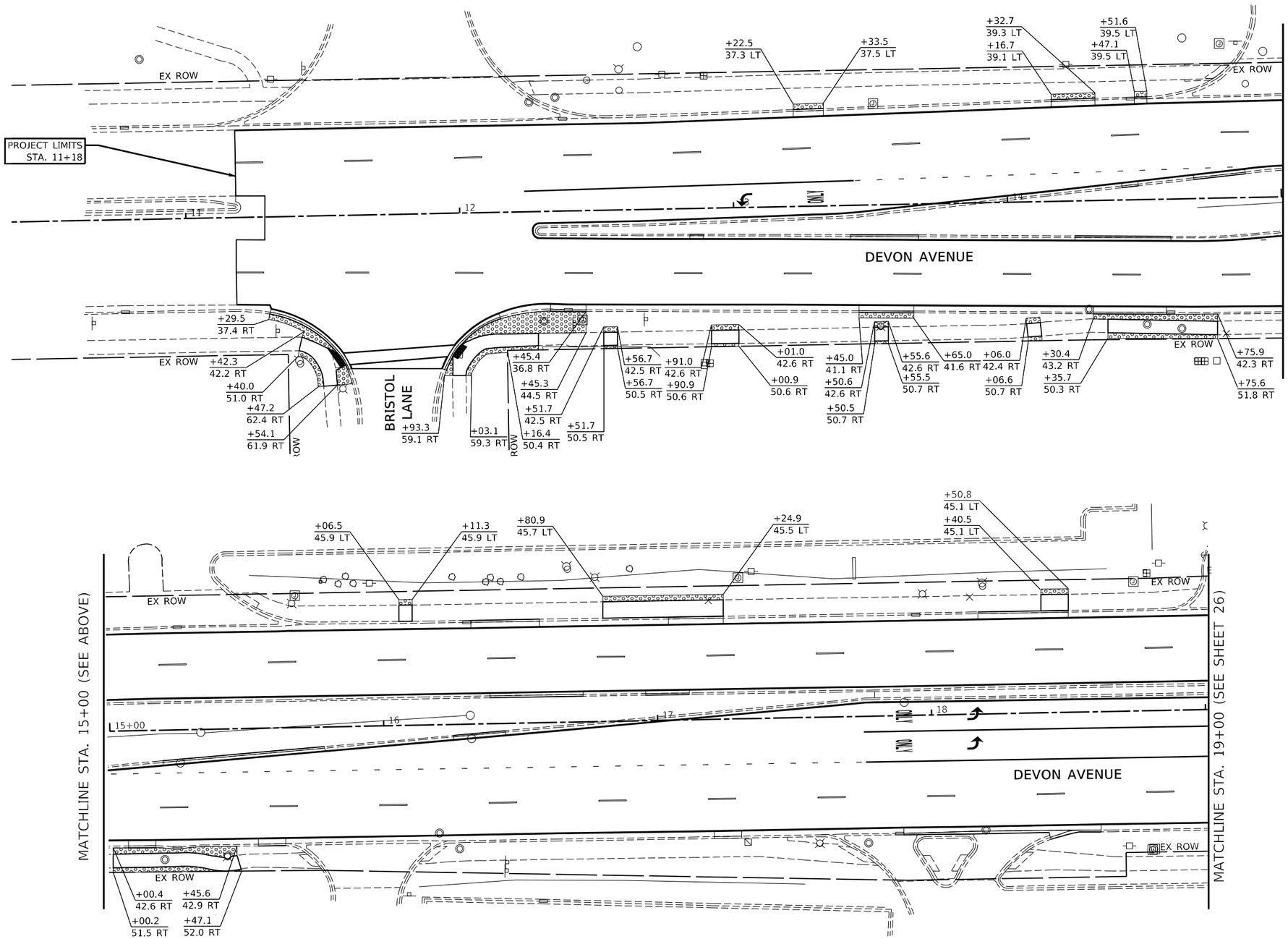
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
PAVEMENT MARKING PLAN

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 101+05 | TO STA. 105+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	24
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = IHarvig PLOT SCALE = 1:40
PLOT DATE = 11/6/2024 2:33:10 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 04.dgn
Path:H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - PMK 04.dgn



N

0 20 40 60

SCALE IN FEET

LEGEND

TOPSOIL, FURNISH & PLACE, 4" & SALT TOLERANT SOD

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

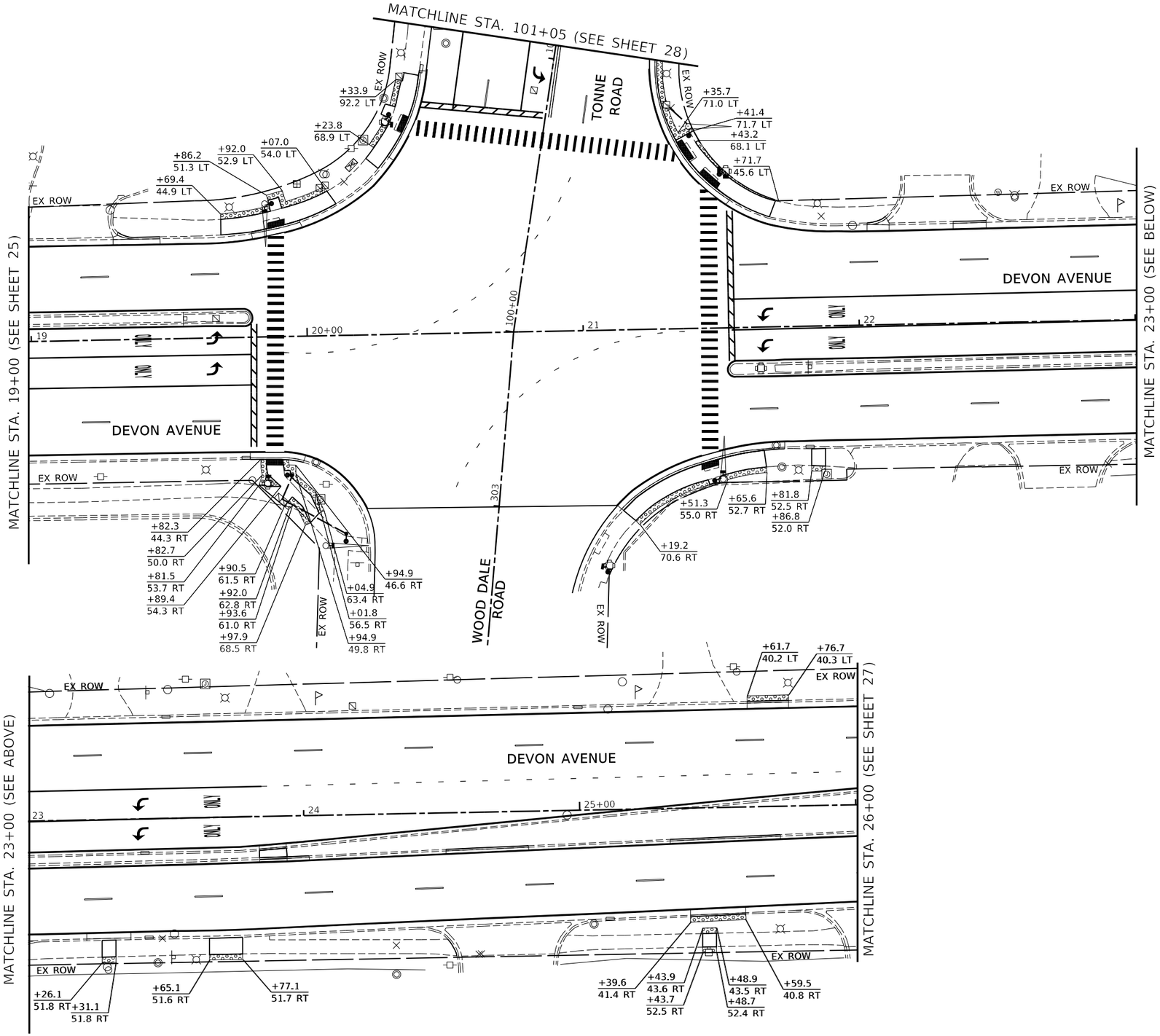
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
LANDSCAPING PLAN

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 11+18 | TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	25
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = IHarvig PLOT SCALE = 1:40
PLOT DATE = 7/8/2024 2:33:12 PM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 01.dgn

Path:H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 01.dgn



LEGEND

TOPSOIL, FURNISH & PLACE, 4" & SALT TOLERANT SOD

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

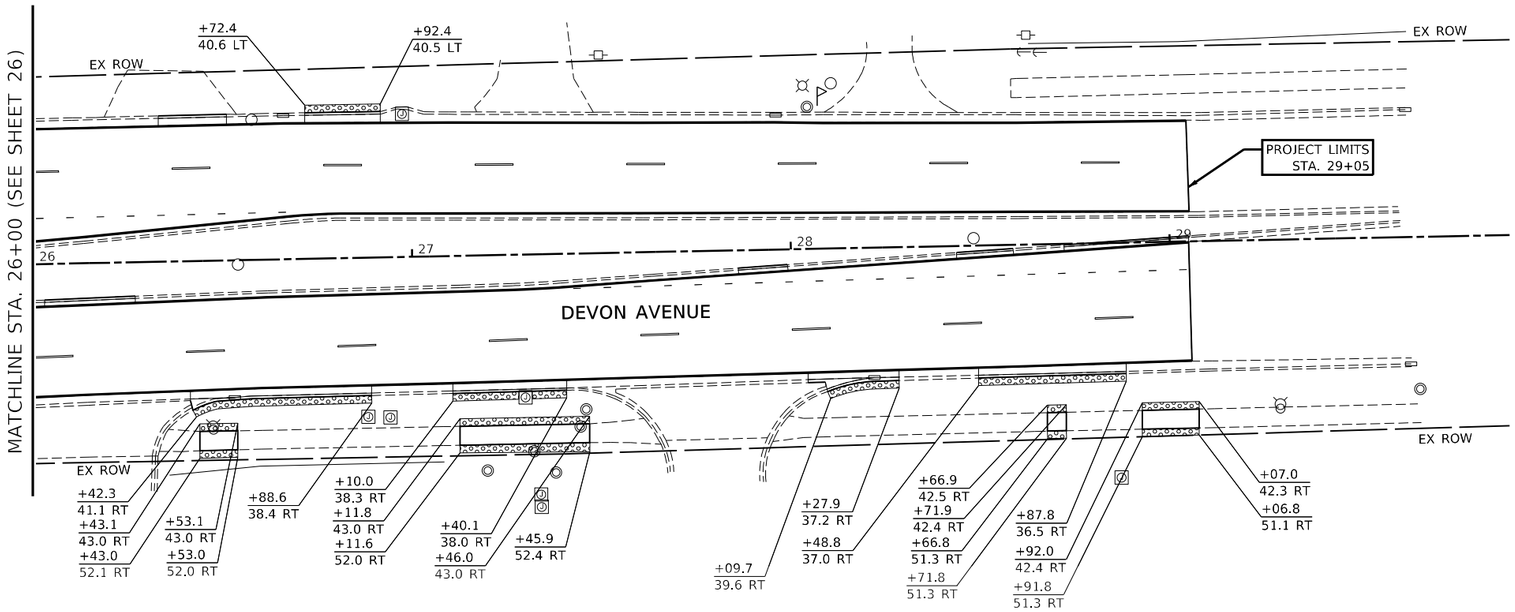
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
LANDSCAPING PLAN

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 19+00 | TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	26
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = tMarvin PLOT SCALE = 1:40
PLOT DATE = 2/9/2024 10:24:02 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 02.dgn
PathH:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 02.dgn



LEGEND

TOPSOIL, FURNISH & PLACE, 4" & SALT TOLERANT SOD

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

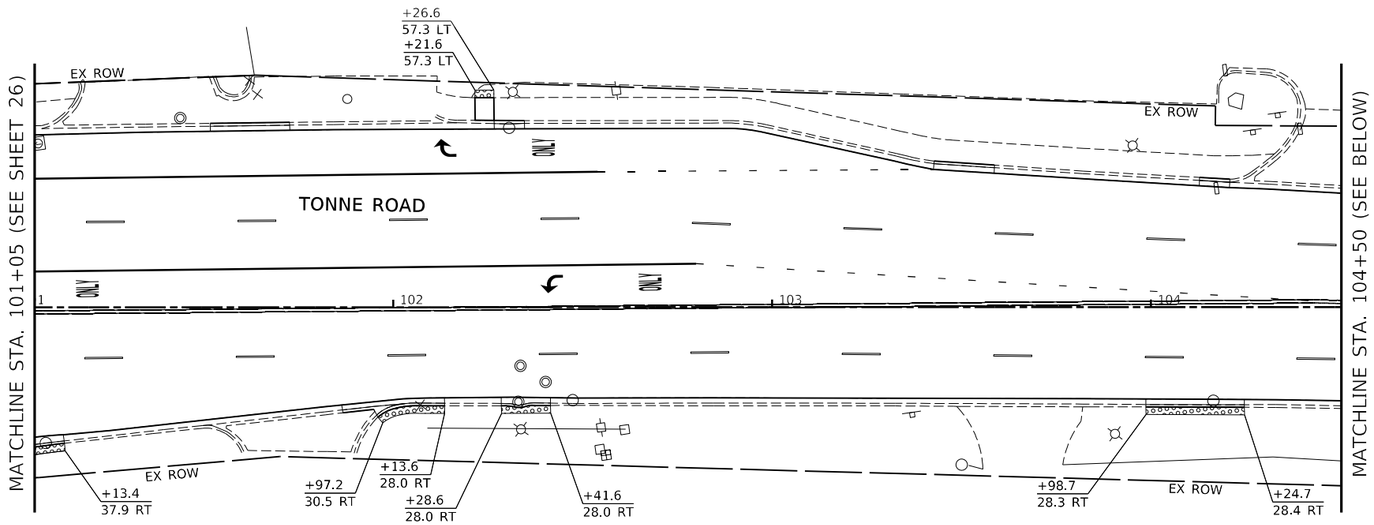
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

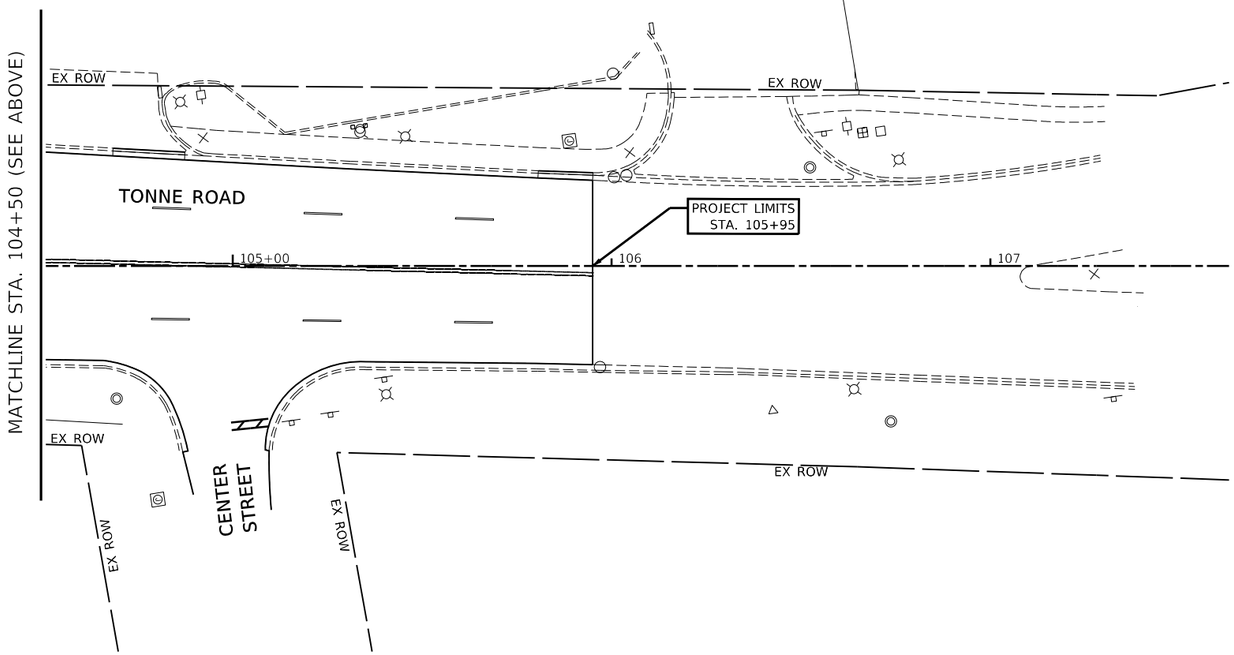
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
LANDSCAPING PLAN

SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 26+00 | TO STA. 29+05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	27
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = MarkVn PLOT SCALE = 1:40
PLOT DATE = 1/30/2024 2:33:14 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 03.dgn
Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 03.dgn





0 20 40 60
SCALE IN FEET

LEGEND

TOPSOIL, FURNISH & PLACE, 4" & SALT TOLERANT SOD

NOTES:

ALL STATION AND OFFSETS ARE REFERENCED TO THE TONNE ROAD CENTERLINE ALIGNMENT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

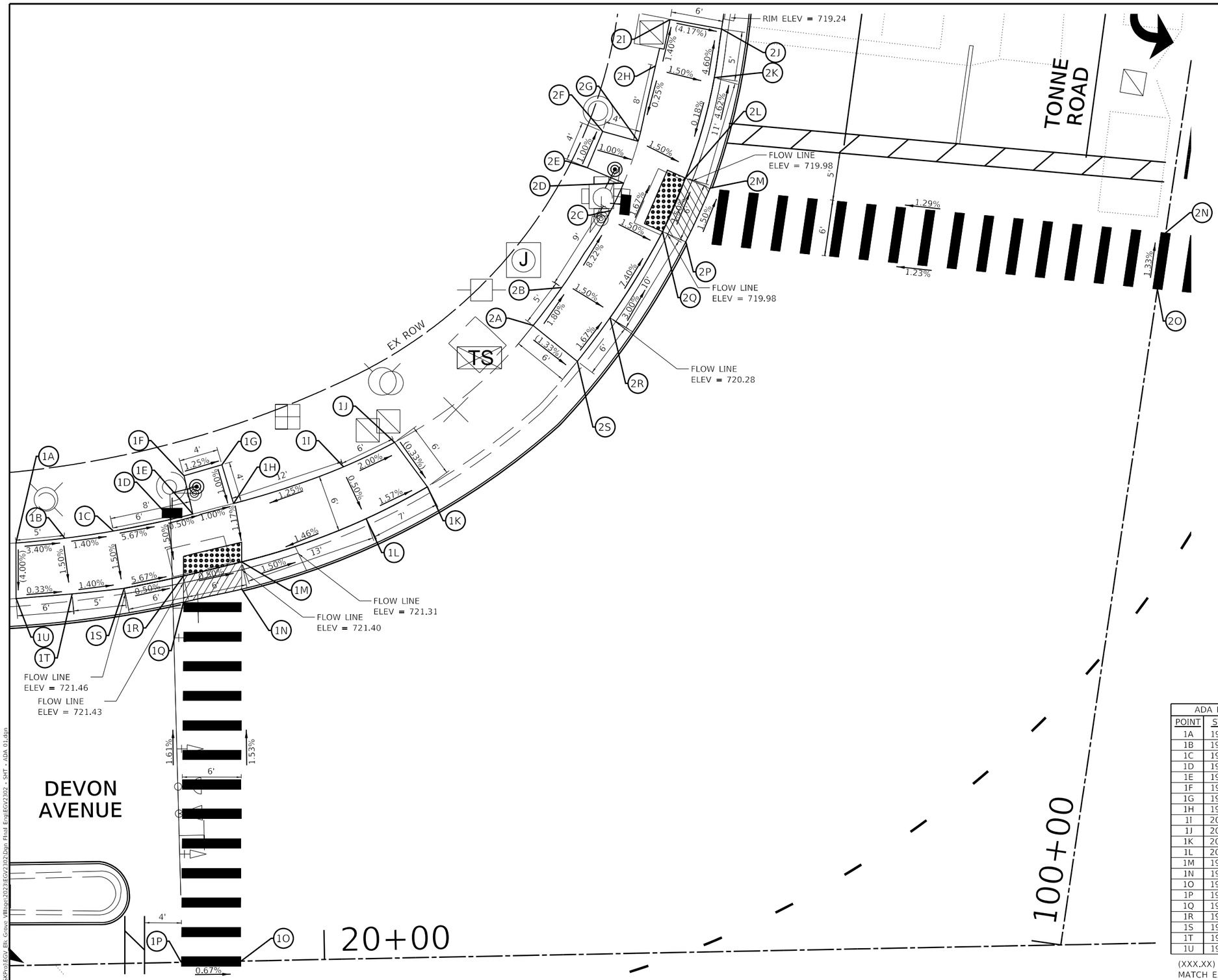
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
LANDSCAPING PLAN

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 101+05 | TO STA. 105+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	28
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = lMarvin PLOT SCALE = 1:40
PLOT DATE = 1/18/2024 2:33:15 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 04.dgn

Path: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - LNDSCP 04.dgn



N

0 5 10 15

SCALE IN FEET

LEGEND

- 1A — POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER
- PROPOSED DEPRESSED CURB AND GUTTER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT.
2. ALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
3. THE LOCATION OF THE ACCESSIBLE PEDESTRIAN PUSH-BUTTON MUST BE PARALLEL TO THE CROSSWALK.
4. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CCDOTH AT 312-603-1734.
5. ACCESSIBLE PEDESTRIAN PUSH-BUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF THE PEDESTRIAN PUSH-BUTTON. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "ACCESSIBLE PEDESTRIAN SIGNALS".
6. ADDITIONAL SIDEWALK BEHIND THE TRAFFIC SIGNAL POST/POLE MAY BE NEEDED.
7. ACCESSIBLE PEDESTRIAN SIGNAL SHALL BE COMPATIBLE WITH THE EXISTING TRAFFIC SIGNAL EQUIPMENT.

ADA RAMP ELEVATION TABLE

POINT	STATION	OFFSET	ELEV.
1A	19+69.51	42.90' LT	(722.14)
1B	19+74.48	43.29' LT	721.97
1C	19+79.43	43.92' LT	721.90
1D	19+85.33	44.98' LT	721.56
1E	19+87.53	45.48' LT	721.55
1F	19+86.71	49.40' LT	721.60
1G	19+90.57	50.43' LT	721.55
1H	19+91.68	46.47' LT	721.51
1I	20+02.92	49.97' LT	721.66
1J	20+08.15	52.36' LT	(721.54)
1K	20+11.40	47.78' LT	(721.52)
1L	20+05.10	44.66' LT	721.63
1M	19+92.38	40.53' LT	721.44
1N	19+92.32	37.75' LT	(721.44)
1O	19+91.50	0.00' LT	(722.02)
1P	19+85.44	0.00' RT	(722.06)
1Q	19+86.40	36.55' LT	(721.47)
1R	19+86.45	39.22' LT	721.47
1S	19+80.41	38.08' LT	721.81
1T	19+75.11	37.61' LT	721.88
1U	19+69.41	37.26' LT	(721.90)

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

ADA RAMP ELEVATION TABLE

POINT	STATION	OFFSET	ELEV.
2A	20+22.45	63.94' LT	(720.94)
2B	20+25.44	67.74' LT	720.85
2C	20+30.55	75.45' LT	720.11
2D	20+31.93	78.23' LT	720.06
2E	20+28.28	79.84' LT	720.10
2F	20+29.89	83.50' LT	720.06
2G	20+33.48	82.44' LT	720.02
2H	20+35.40	90.07' LT	720.04
2I	20+36.96	94.72' LT	(719.97)
2J	20+42.17	93.65' LT	(719.72)
2K	20+41.34	88.73' LT	719.95
2L	20+38.21	78.60' LT	719.93
2M	20+40.67	77.48' LT	719.95
2N	20+86.82	72.10' LT	(720.55)
2O	20+85.87	66.37' LT	(720.63)
2P	20+38.11	72.13' LT	720.04
2Q	20+35.78	73.21' LT	720.02
2R	20+30.27	64.57' LT	720.76
2S	20+26.86	60.21' LT	(720.86)

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

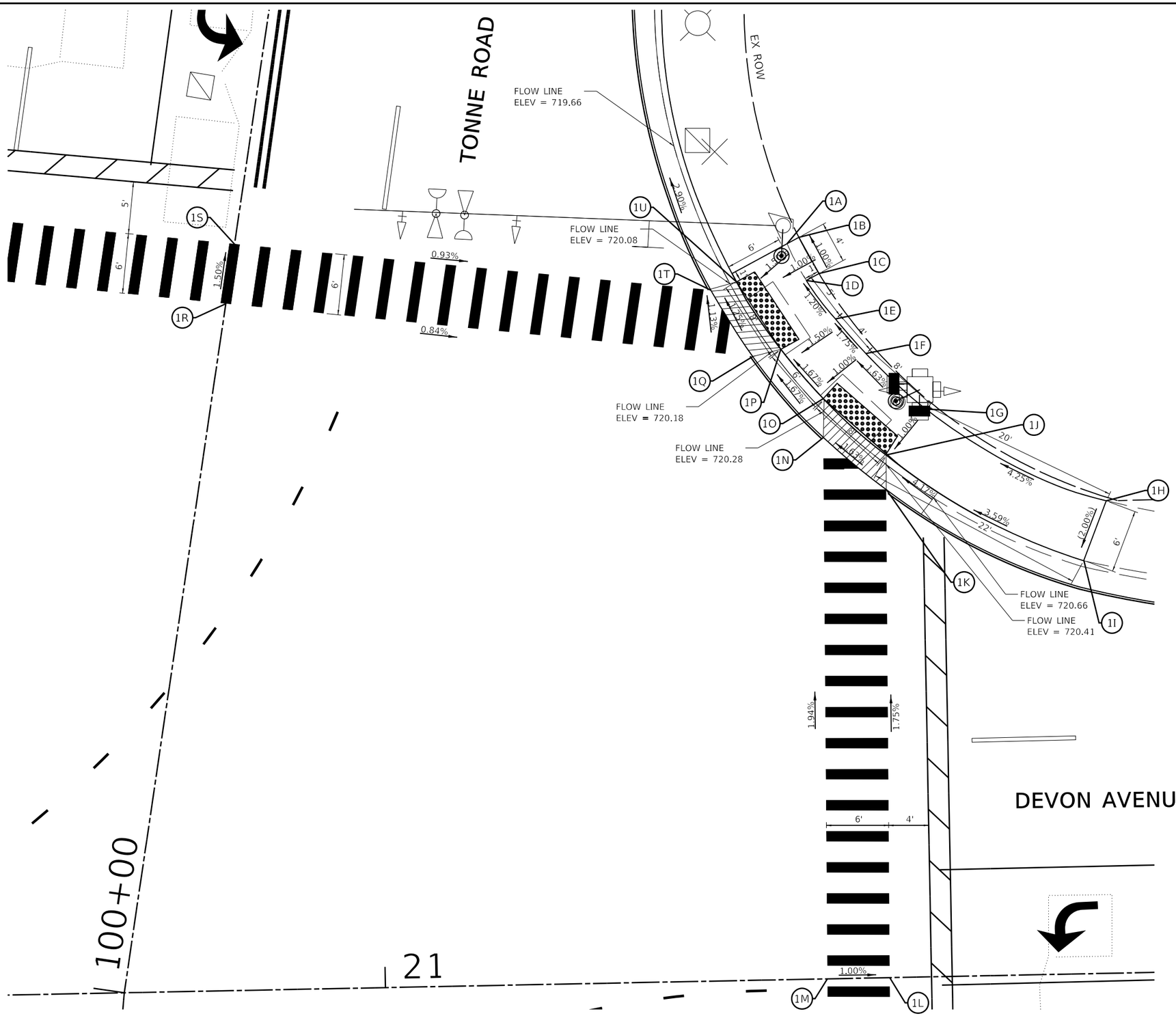
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
ADA DETAIL SHEETS

SCALE: 1" = 5' | SHEET 1 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	29
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = tHarvin PLOT SCALE = 1:10
PLOT DATE = 1/30/2024 2:33:16 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 01.dgn

Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 01.dgn



N

0 5 10 15

SCALE IN FEET

LEGEND

- A — POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER
- PROPOSED DEPRESSED CURB AND GUTTER

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT.
2. ALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
3. THE LOCATION OF THE ACCESSIBLE PEDESTRIAN PUSH-BUTTON MUST BE PARALLEL TO THE CROSSWALK.
4. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CCDOTH AT 312-603-1734.
5. ACCESSIBLE PEDESTRIAN PUSH-BUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF THE PEDESTRIAN PUSH-BUTTON. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "ACCESSIBLE PEDESTRIAN SIGNALS".
6. ADDITIONAL SIDEWALK BEHIND THE TRAFFIC SIGNAL POST/POLE MAY BE NEEDED.
7. ACCESSIBLE PEDESTRIAN SIGNAL SHALL BE COMPATIBLE WITH THE EXISTING TRAFFIC SIGNAL EQUIPMENT.

ADA RAMP ELEVATION TABLE

POINT	STATION	OFFSET	ELEV.
1A	21+41.13	69.03' LT	720.21
1B	21+41.99	71.98' LT	720.23
1C	21+43.82	68.43' LT	720.27
1D	21+41.99	67.48' LT	720.25
1E	21+44.75	63.71' LT	720.31
1F	21+47.60	60.31' LT	720.38
1G	21+55.08	53.43' LT	720.51
1H	21+70.53	45.63' LT	(721.36)
1I	21+68.23	39.88' LT	(721.24)
1J	21+49.34	50.45' LT	720.45
1K	21+49.29	47.15' LT	720.51
1L	21+49.21	0.00' LT	(721.35)
1M	21+42.04	0.00' LT	(721.41)
1N	21+43.33	52.28' LT	720.38
1O	21+43.48	55.96' LT	720.32
1P	21+39.45	60.85' LT	720.22
1Q	21+36.67	60.24' LT	720.21
1R	20+85.89	66.36' LT	(720.64)
1S	20+86.94	72.01' LT	(720.55)
1T	21+32.75	66.75' LT	720.12
1U	21+35.25	67.47' LT	720.12

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

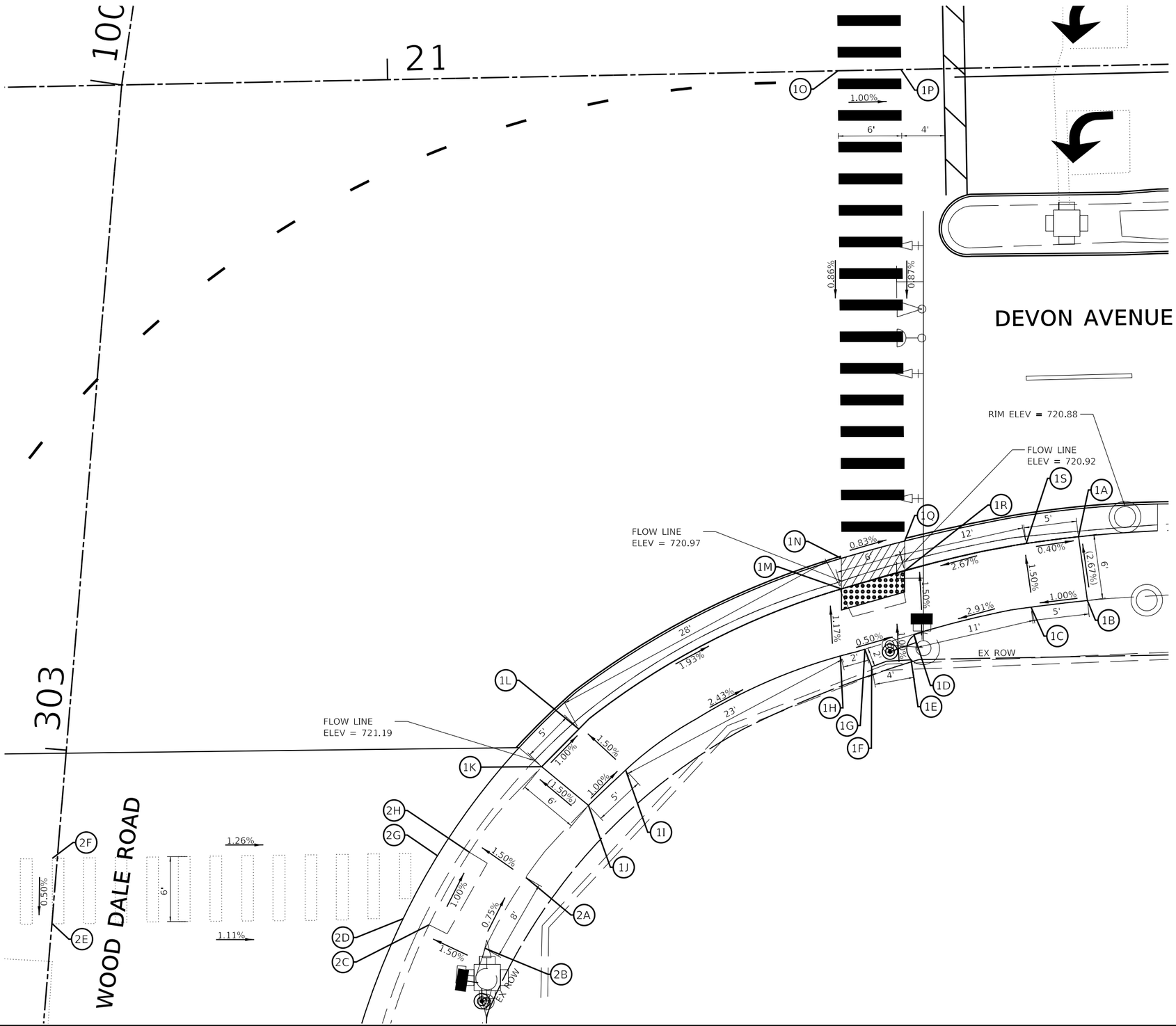
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
ADA DETAIL SHEETS

SCALE: 1" = 5' | SHEET 2 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	30
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = jmarvig PLOT SCALE = 1:10
PLOT DATE = 2/9/2024 10:24:07 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 02.dgn

Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 02.dgn



LEGEND

- (A) POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER
- PROPOSED DEPRESSED CURB AND GUTTER

N

0 5 10 15

SCALE IN FEET

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT.
2. ALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
3. THE LOCATION OF THE ACCESSIBLE PEDESTRIAN PUSH-BUTTON MUST BE PARALLEL TO THE CROSSWALK.
4. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CCDOTH AT 312-603-1734.
5. ACCESSIBLE PEDESTRIAN PUSH-BUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF THE PEDESTRIAN PUSH-BUTTON. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "ACCESSIBLE PEDESTRIAN SIGNALS".
6. ADDITIONAL SIDEWALK BEHIND THE TRAFFIC SIGNAL POST/POLE MAY BE NEEDED.
7. ACCESSIBLE PEDESTRIAN SIGNAL SHALL BE COMPATIBLE WITH THE EXISTING TRAFFIC SIGNAL EQUIPMENT.

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
1A	21+64.67	44.64' RT	(721.26)
1B	21+65.38	50.71' RT	(721.42)
1C	21+60.03	51.25' RT	721.37
1D	21+48.85	53.59' RT	721.05
1E	21+48.54	56.00' RT	721.07
1F	21+44.80	56.60' RT	721.09
1G	21+44.19	54.90' RT	721.07
1H	21+41.84	55.50' RT	721.08
1I	21+21.28	65.92' RT	721.64
1J	21+17.68	69.21' RT	(721.69)
1K	21+13.33	65.44' RT	(721.60)
1L	21+16.91	61.95' RT	721.55
1M	21+42.08	49.15' RT	721.01
1N	21+42.13	46.25' RT	(721.01)
1O	21+41.96	0.00' RT	721.41
1P	21+49.24	0.00' RT	721.35
1Q	21+48.15	44.72' RT	(720.96)
1R	21+48.01	47.57' RT	720.96
1S	21+59.68	45.18' RT	721.28
2A	21+11.62	75.93' RT	(721.37)
2B	21+07.62	82.57' RT	(721.43)
2C	21+02.35	80.22' RT	(721.34)
2D	21+99.90	79.61' RT	(721.44)
2E	20+66.62	79.43' RT	(721.81)
2F	20+66.74	73.21' RT	(721.84)
2G	21+03.25	73.67' RT	(721.38)
2H	21+06.31	73.43' RT	(721.28)

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

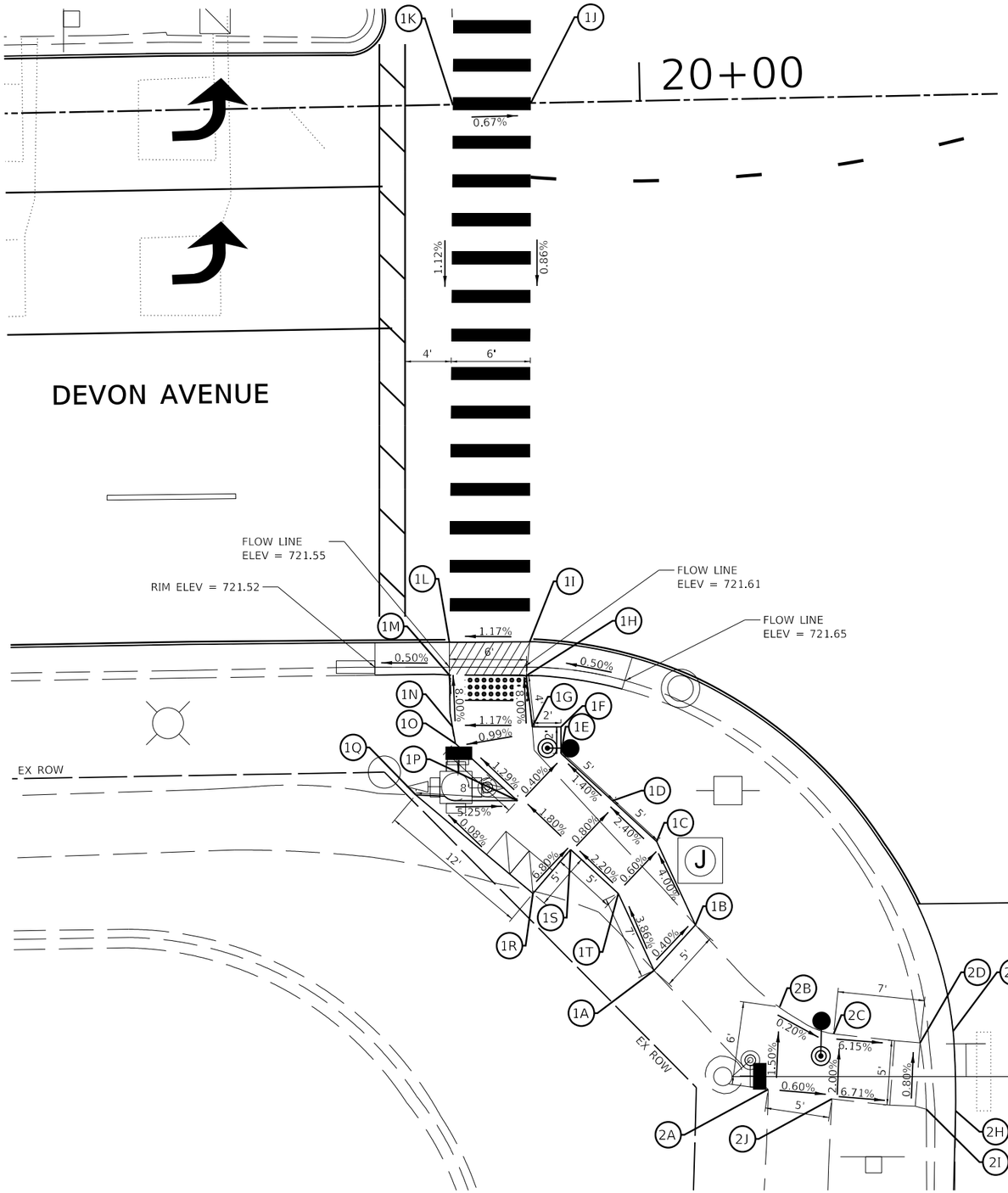
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
ADA DETAIL SHEETS

SCALE: 1" = 5' | SHEET 3 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	31
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = JMarvig PLOT SCALE = 1:10
PLOT DATE = 12/9/2024 10:40:09 AM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 03.dgn
Path:H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 03.dgn



LEGEND

- (A) POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER
- PROPOSED DEPRESSED CURB AND GUTTER

N

0 5 10 15

SCALE IN FEET

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
1A	19+99.76	67.68' RT	(722.47)
1B	20+03.05	64.20' RT	(722.45)
1C	20+00.17	57.65' RT	722.17
1D	19+96.79	54.42' RT	722.05
1E	19+92.86	50.65' RT	721.98
1F	19+92.91	48.59' RT	722.00
1G	19+90.67	48.54' RT	721.97
1H	19+90.28	44.54' RT	721.65
1I	19+90.61	41.91' RT	721.65
1J	19+91.51	0.00'	722.01
1K	19+85.51	0.00'	722.05
1L	19+84.35	41.82' RT	721.58
1M	19+84.30	44.37' RT	721.58
1N	19+84.46	48.42' RT	721.90
1O	19+84.66	49.71' RT	721.91
1P	19+89.40	54.26' RT	722.00
1Q	19+81.49	53.66' RT	(722.42)
1R	19+90.46	61.51' RT	(722.43)
1S	19+93.47	58.15' RT	722.09
1T	19+97.10	61.64' RT	722.20
2A	20+08.46	77.10' RT	(722.37)
2B	20+09.48	70.71' RT	(722.28)
2C	20+13.64	72.88' RT	(722.27)
2D	20+20.35	73.71' RT	(721.84)
2E	20+23.02	72.99' RT	(721.85)
2F	20+66.74	73.21' RT	(721.84)
2G	20+66.62	79.43' RT	(721.81)
2H	20+23.01	79.06' RT	(721.89)
2I	20+20.73	78.89' RT	(721.87)
2J	20+13.40	77.95' RT	(722.34)

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT.
2. ALL ACESSBLE PEDESTRIAN SIGNAL PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
3. THE LOCATION OF THE ACCESSIBLE PEDESTRIAN PUSH-BUTTON MUST BE PARALLEL TO THE CROSSWALK.
4. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CCDOTH AT 312-603-1734.
5. ACCESSIBLE PEDESTRIAN PUSH-BUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF THE PEDESTRIAN PUSH-BUTTON. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "ACCESSIBLE PEDESTRIAN SIGNALS".
6. ADDITIONAL SIDEWALK BEHIND THE TRAFFIC SIGNAL POST/POLE MAY BE NEEDED.
7. ACCESSIBLE PEDESTRIAN SIGNAL SHALL BE COMPATABLE WITH THE EXISTING TRAFFIC SIGNAL EQUIPMENT.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

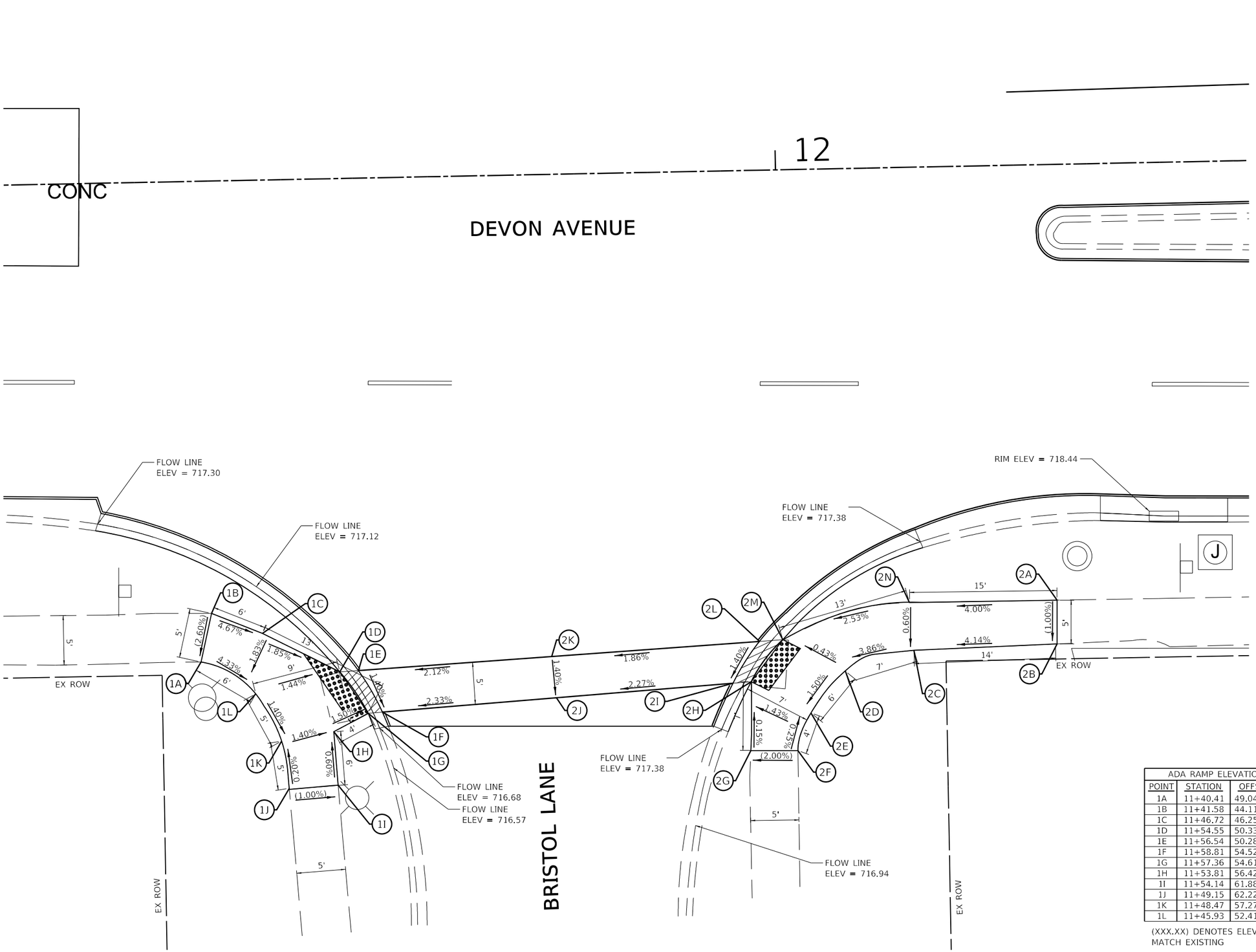
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
ADA DETAIL SHEETS

SCALE: 1" = 5' | SHEET 4 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	32
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = JMarvig PLOT SCALE = 1:10
PLOT DATE = 12/9/2024 16:24:10 AM
FILE NAME: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 04.dgn
Path: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 04.dgn



NOTES:

1. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT.
2. ALL ACESSBLE PEDESTRIAN SIGNAL PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
3. THE LOCATION OF THE ACCESSIBLE PEDESTRIAN PUSH-BUTTON MUST BE PARALLEL TO THE CROSSWALK.
4. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. tHE CONTRACTOR SHALL CONTACT CCDOTH AT 312-603-1734.
5. ACCESSIBLE PEDESTRIAN PUSH-BUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF THE PEDESTRIAN PUSH-BUTTON. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "ACCESSIBLE PEDESTRIAN SIGNALS".
6. ADDITIONAL SIDEWALK BEHIND THE TRAFFIC SIGNAL POST/POLE MAY BE NEEDED.
7. ACCESSIBLE PEDESTRIAN SIGNAL SHALL BE COMPATABLE WITH THE EXISTING TRAFFIC SIGNAL EQUIPMENT.

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
1A	11+40.41	49.04' RT	(717.22)
1B	11+41.58	44.11' RT	(717.35)
1C	11+46.72	46.25' RT	717.07
1D	11+54.55	50.33' RT	716.83
1E	11+56.54	50.28' RT	716.83
1F	11+58.81	54.52' RT	(716.76)
1G	11+57.36	54.61' RT	716.76
1H	11+53.81	56.42' RT	716.82
1I	11+54.14	61.88' RT	(716.85)
1J	11+49.15	62.22' RT	(716.90)
1K	11+48.47	57.27' RT	716.89
1L	11+45.93	52.41' RT	716.96

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
2A	12+27.86	44.46' RT	(718.68)
2B	12+27.77	48.93' RT	(718.63)
2C	12+13.15	49.29' RT	718.05
2D	12+06.11	51.26' RT	717.78
2E	12+02.52	55.46' RT	717.69
2F	12+01.12	59.29' RT	(717.70)
2G	11+96.32	59.19' RT	(717.60)
2H	11+96.50	52.16' RT	717.59
2I	11+94.59	52.28' RT	(717.59)
2J	11+75.87	53.44' RT	717.18
2K	11+75.79	49.23' RT	717.25
2L	11+97.42	48.08' RT	717.66
2M	11+99.80	47.94' RT	717.75
2N	12+12.75	44.45' RT	718.08

(XXX.XX) DENOTES ELEVATION SHALL MATCH EXISTING

50 YEARS EEI
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
ADA DETAIL SHEETS

SCALE: 1" = 5' | SHEET 5 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	33
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = IMarvig PLOT SCALE = 1:10
PLOT DATE = 2/9/2024 11:42:29 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 05.dgn

Path:H:\SDSKProj\EGV_Elk Grove Village_2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - ADA 05.dgn

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\61L07\CADData\CADSheets\ts05.dgn

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	34
	TS-05	CONTRACT NO. 61L07		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

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

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

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

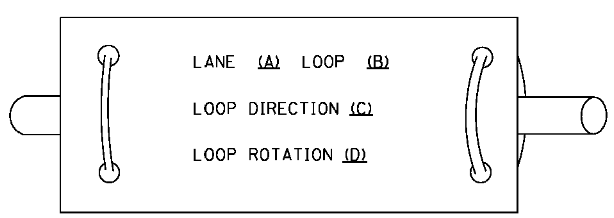
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

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

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

LOOP LEAD–IN CABLE TAG

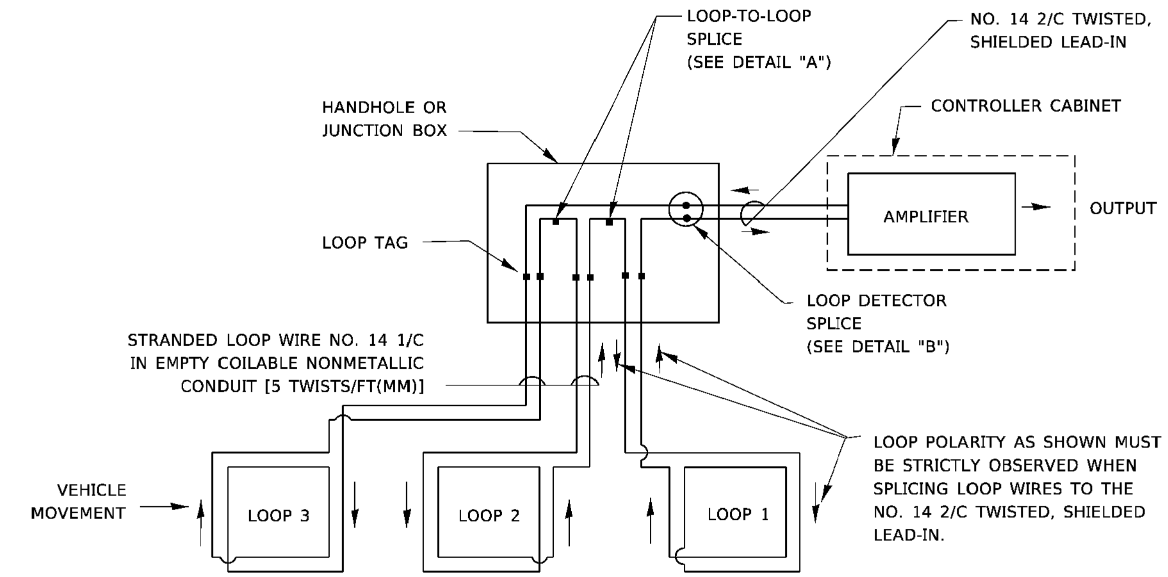


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

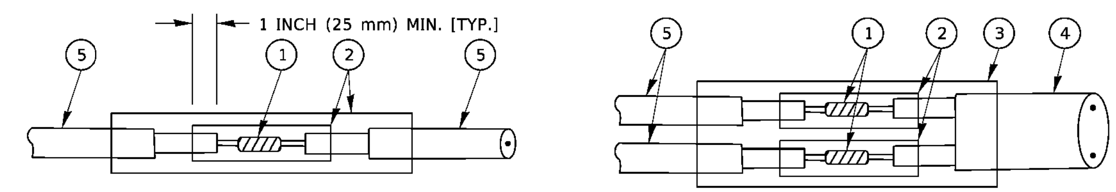
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

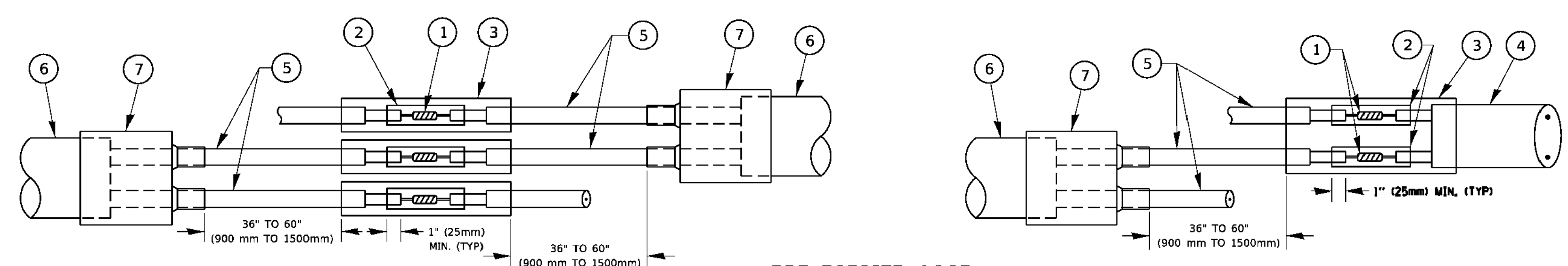
- LOOPS SHALL BE SPLICED IN SERIES.
  SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE–FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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

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

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

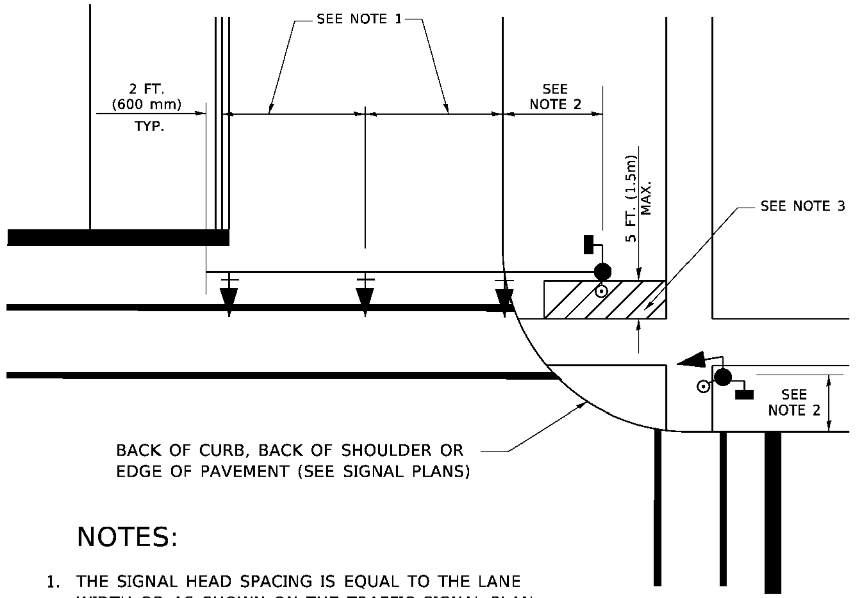
(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

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

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

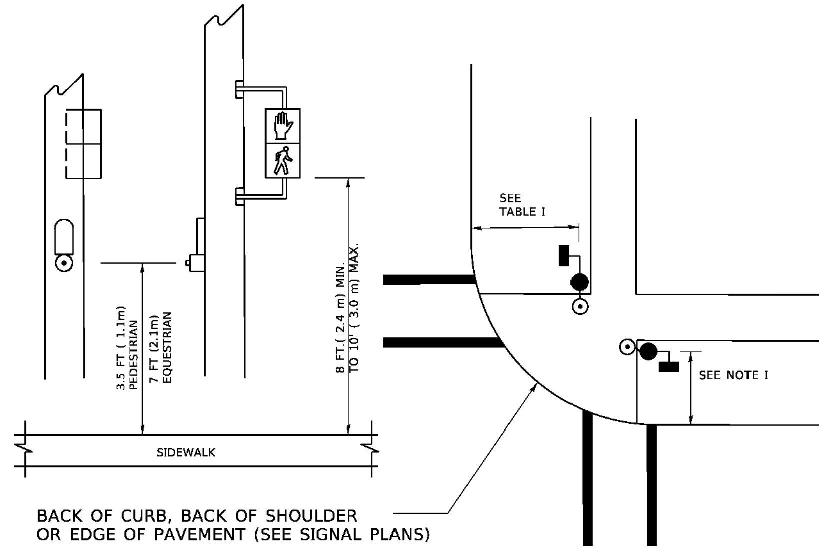
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

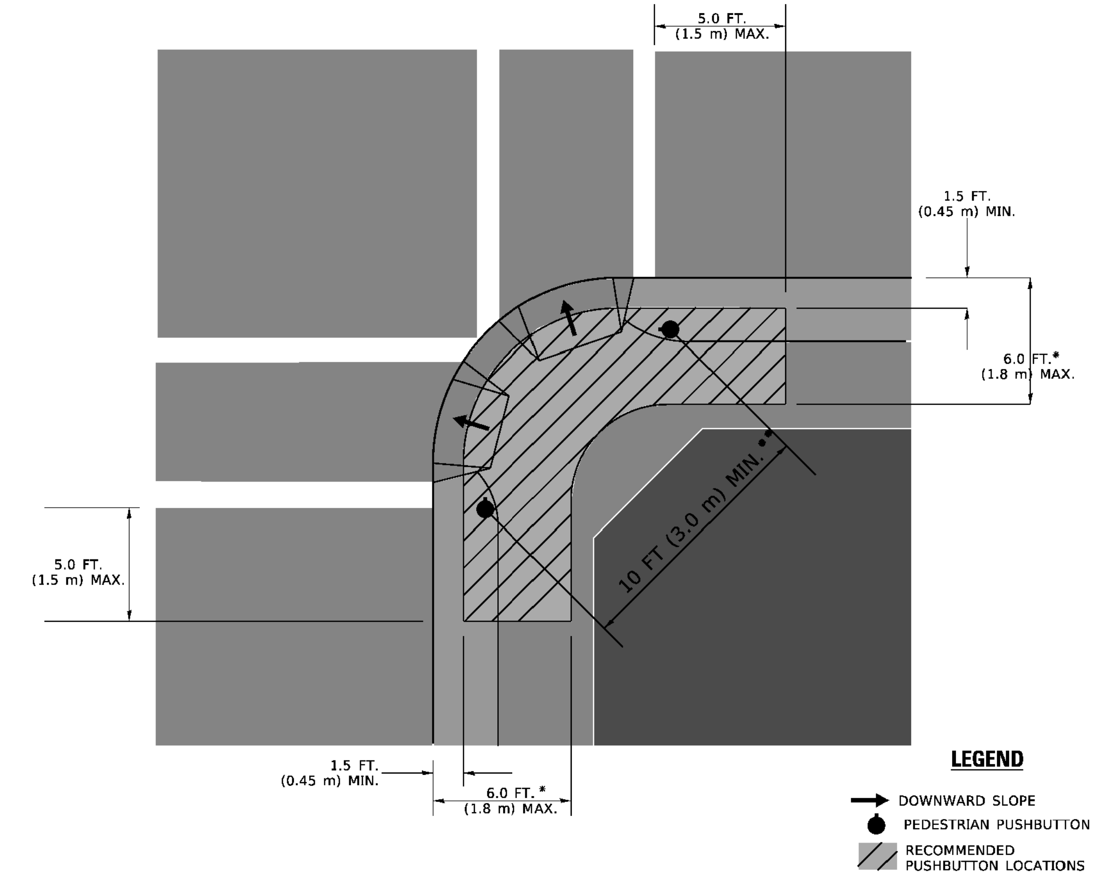
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT[illegible]\CADData\CADsheets\ts05.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = footemj	DESIGNED -	REVISED -	REVISED -
	DRAWN -	REVISED -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -	REVISED -

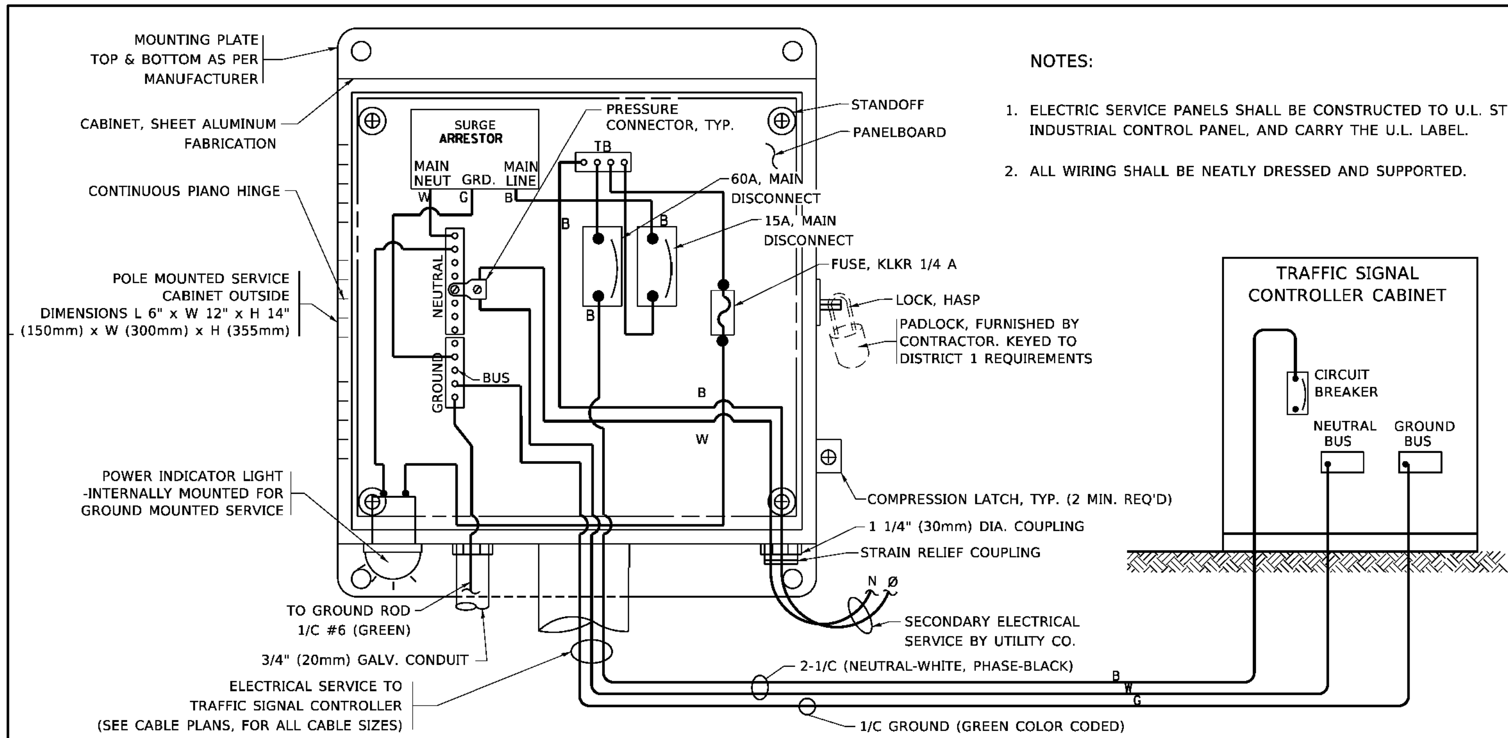
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	36

TS–05 | CONTRACT NO. 61L07
ILLINOIS | FED. AID PROJECT



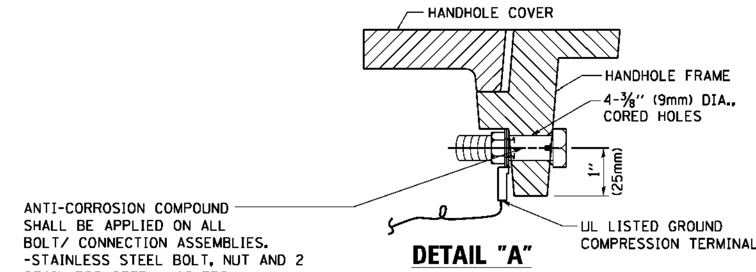
NOTES:

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

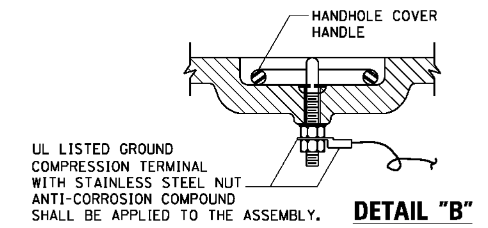
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

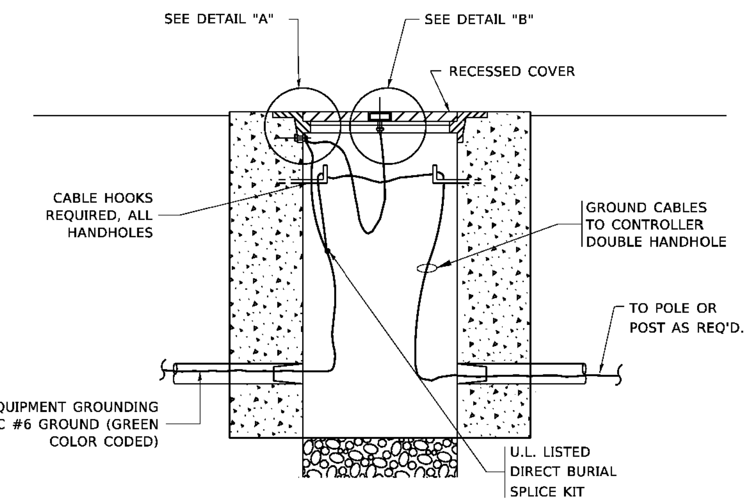


DETAIL "B"

NOTES:

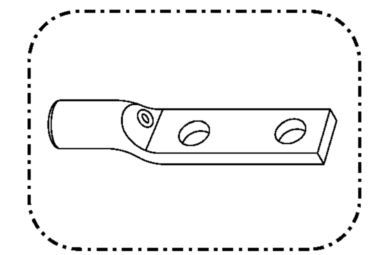
GROUNDING SYSTEM

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

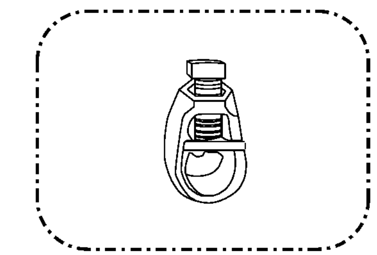


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



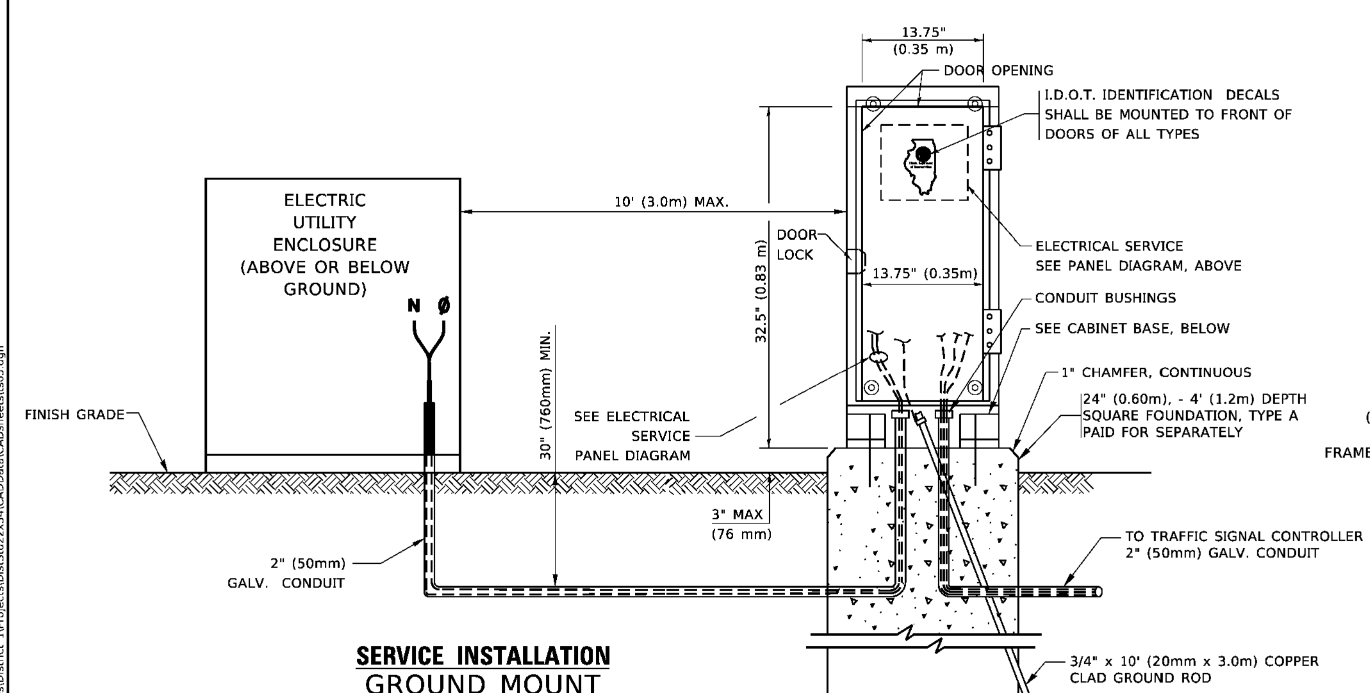
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

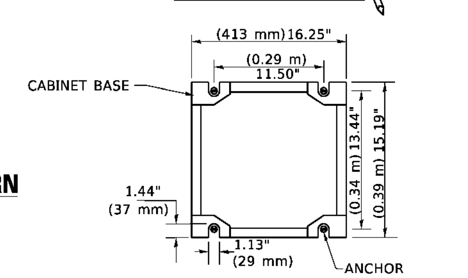
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION

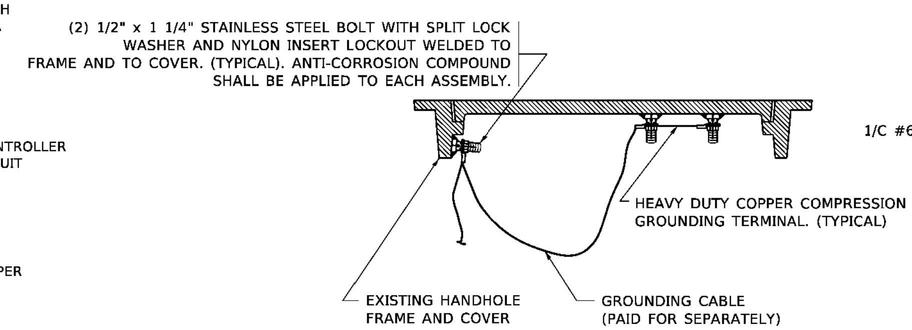
GROUND MOUNT

(NOT TO SCALE)



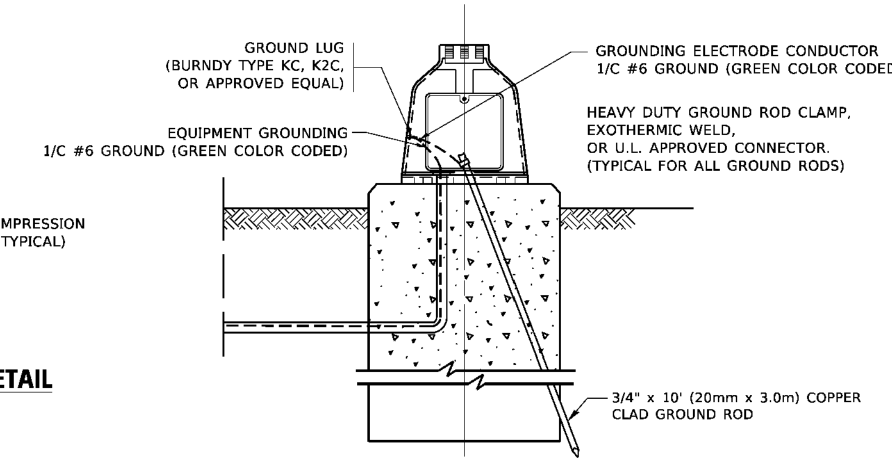
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

MODEL: Default
FILE NAME: pw:\\IL084EBIDINT1G.illinois.gov:PW\IDOT\Documents\IDOT Offices\District 1\Projects\Data\EGV2382\Ds...DIET-12 01 TS05D.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

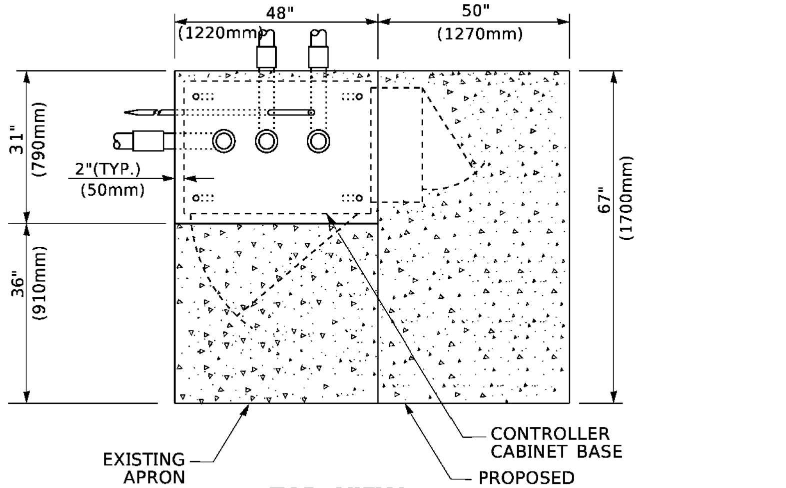
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

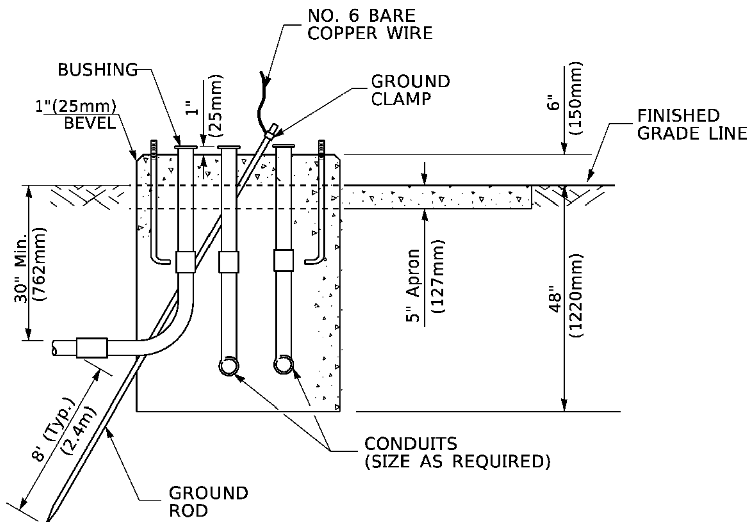
SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	37
	TS-05	CONTRACT NO. 61L07		

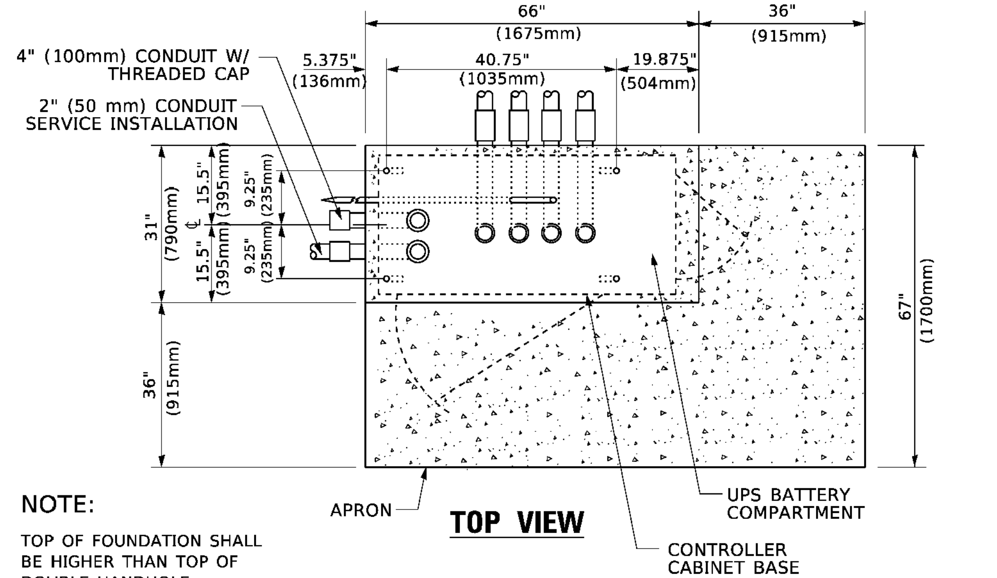
ILLINOIS FED. AID PROJECT



TOP VIEW



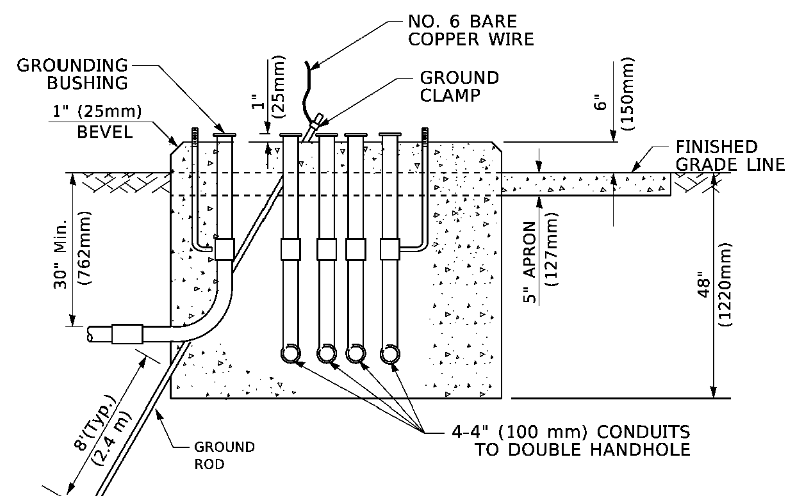
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



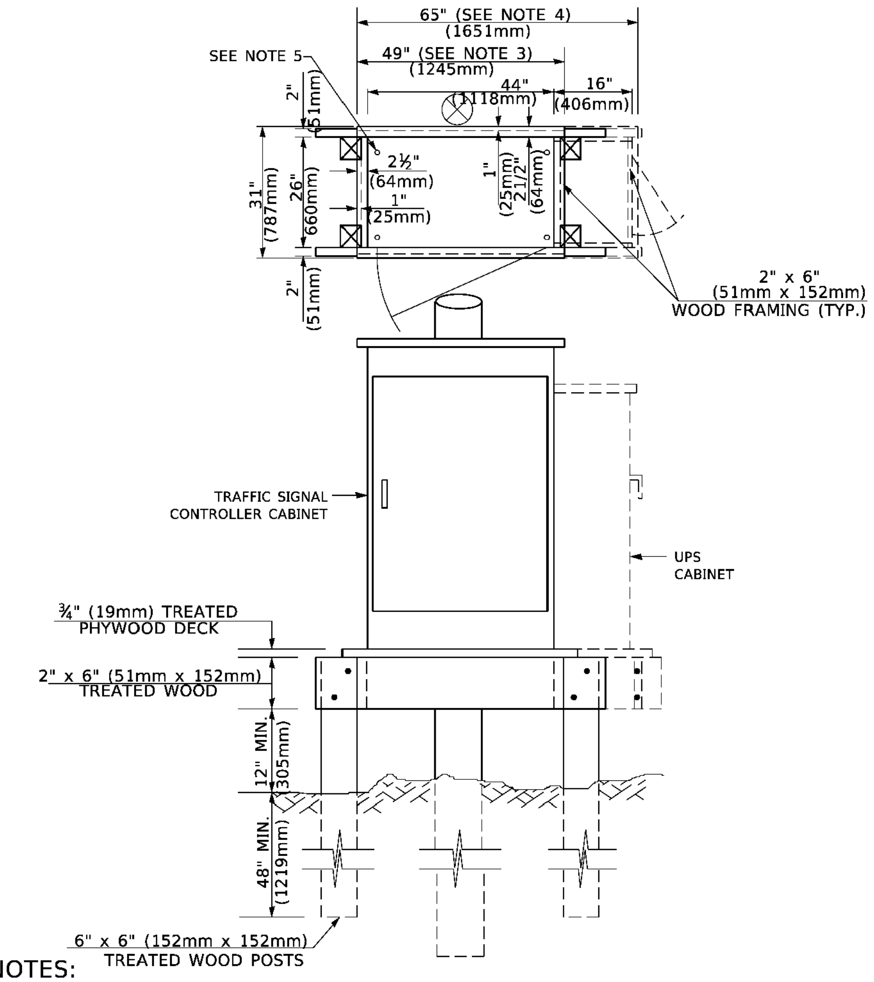
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

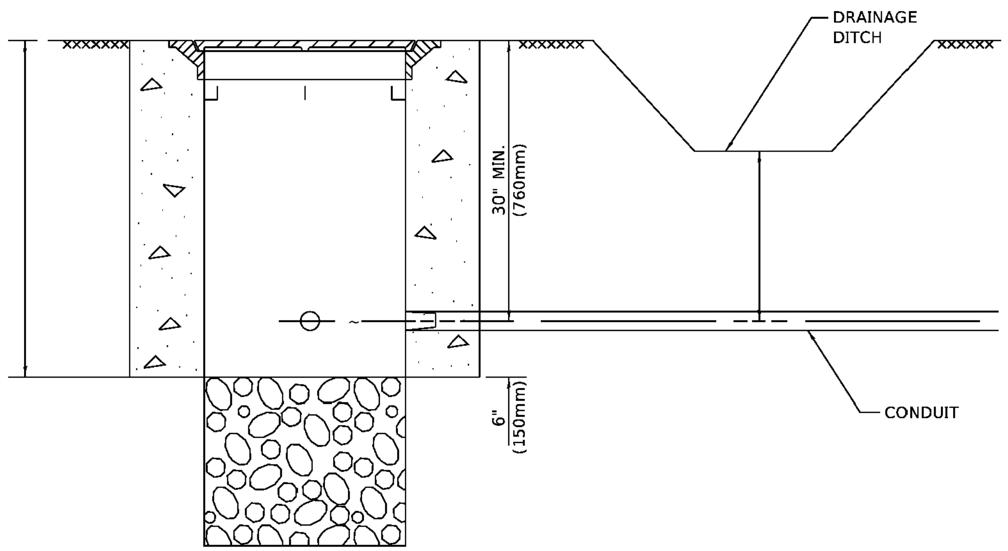
DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

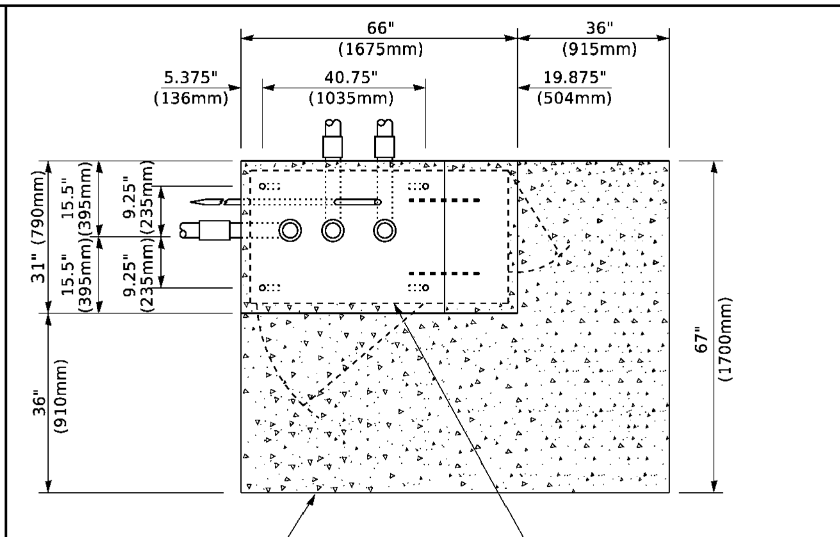


NOTES:

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

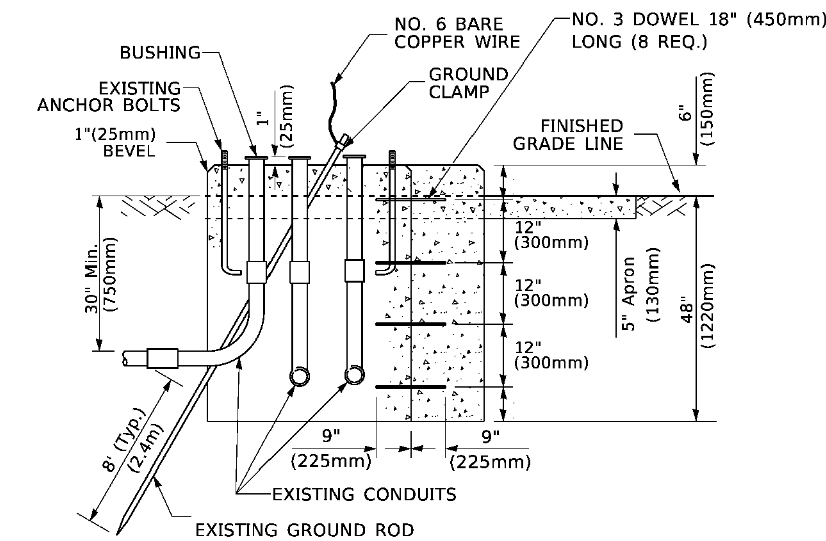
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



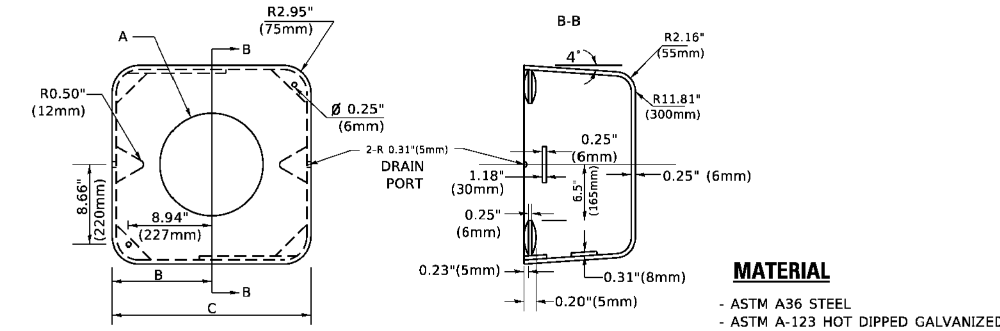
TOP VIEW

(NOT TO SCALE)



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

(NOT TO SCALE)



MATERIAL

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

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

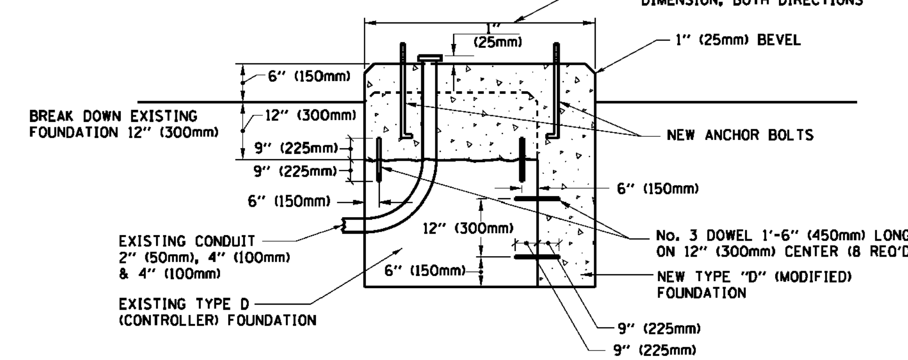
SHROUD

NOTES:

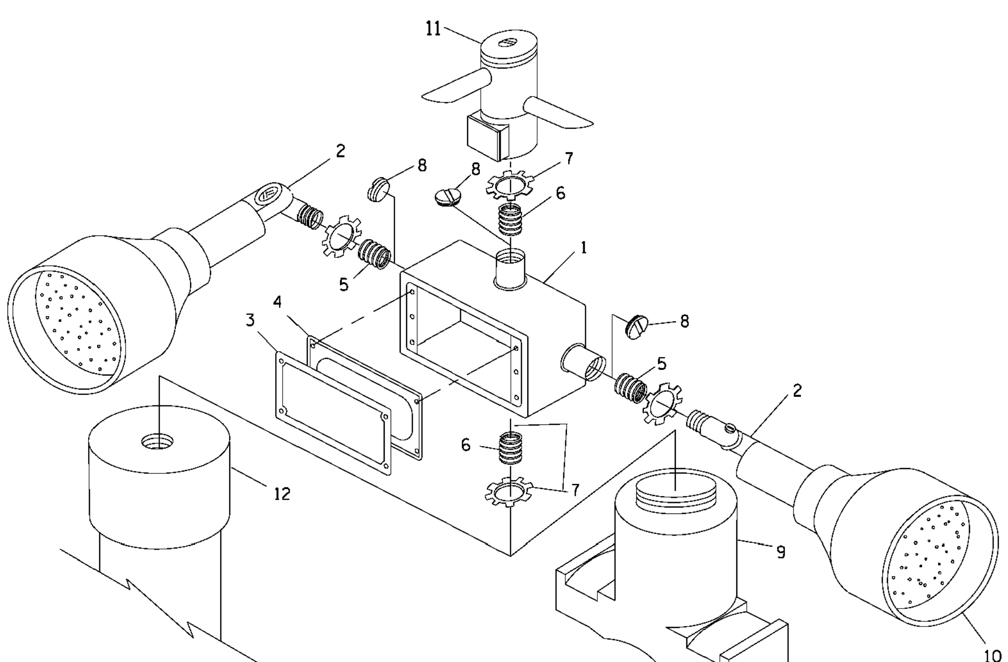
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

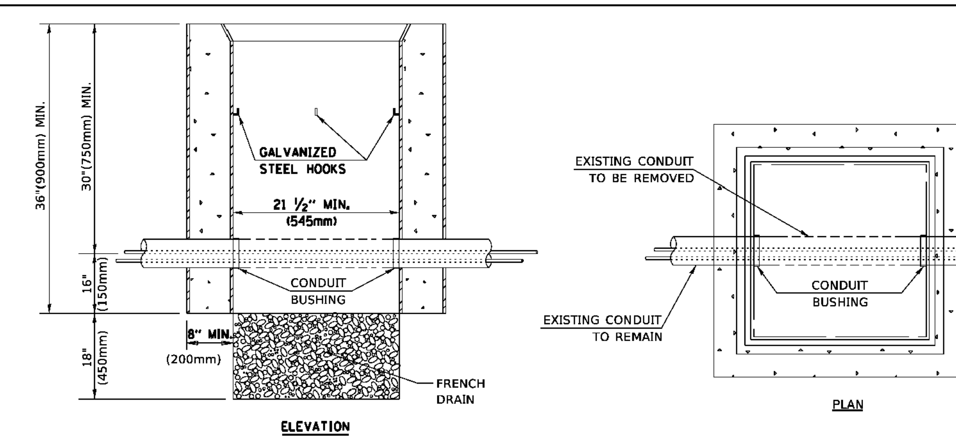
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

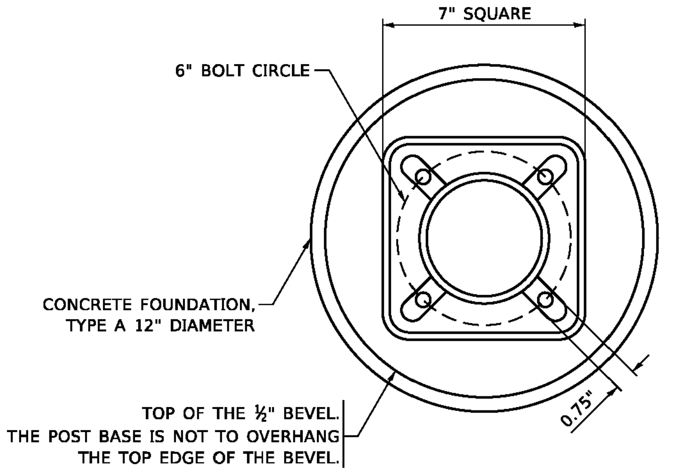
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



NOTES:

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

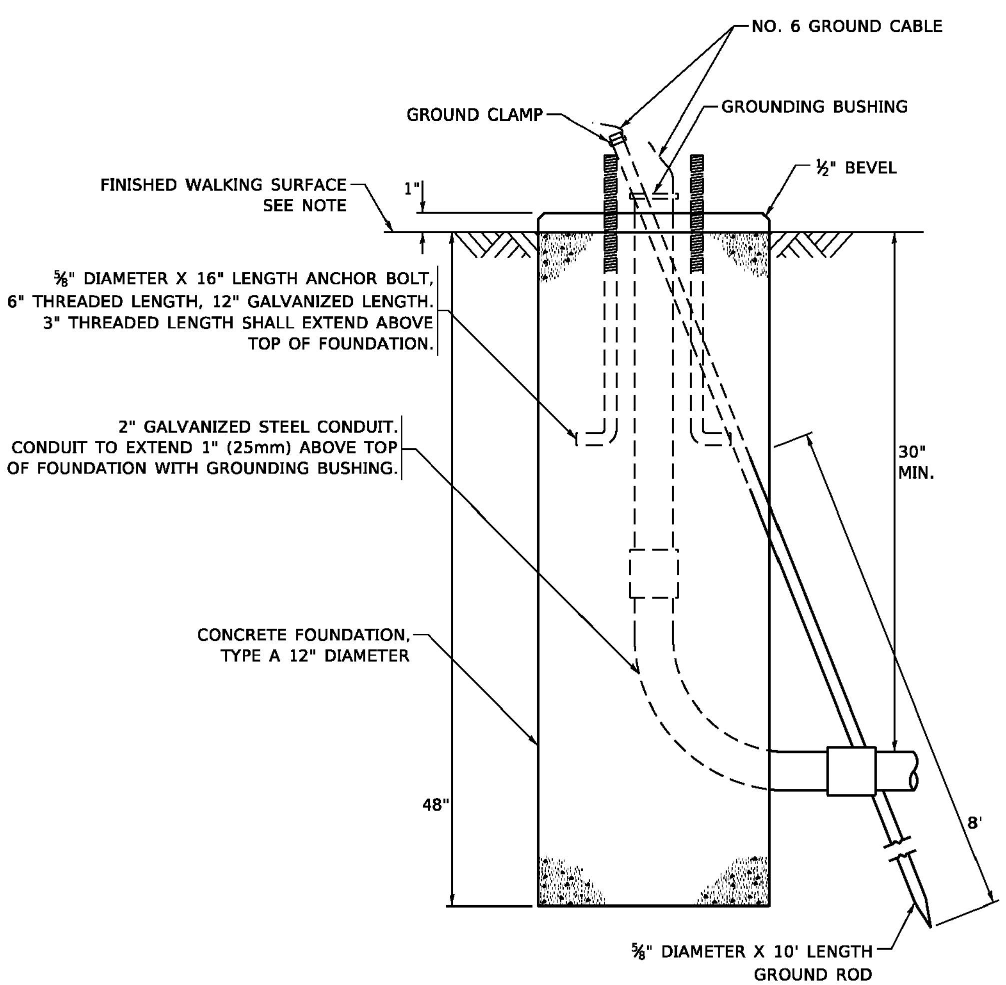
HANDHOLE TO INTERCEPT EXISTING CONDUIT



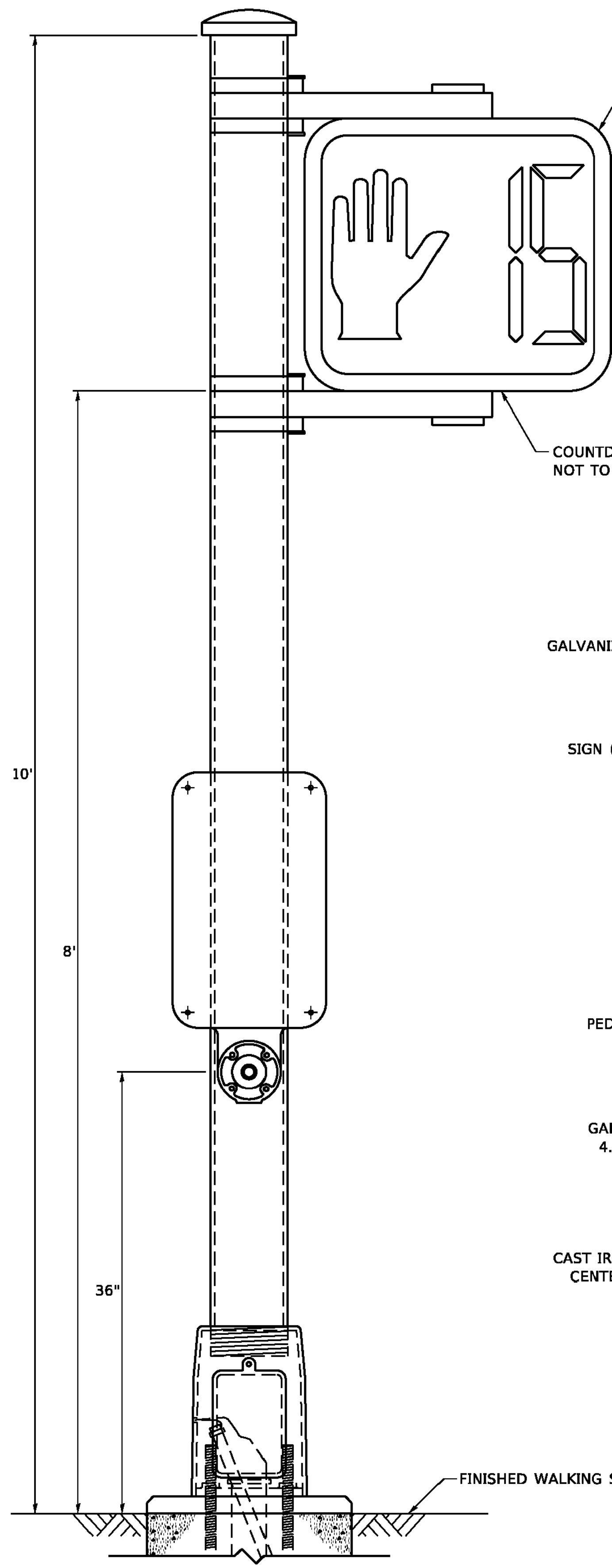
BOLT PATTERN

NOTE:

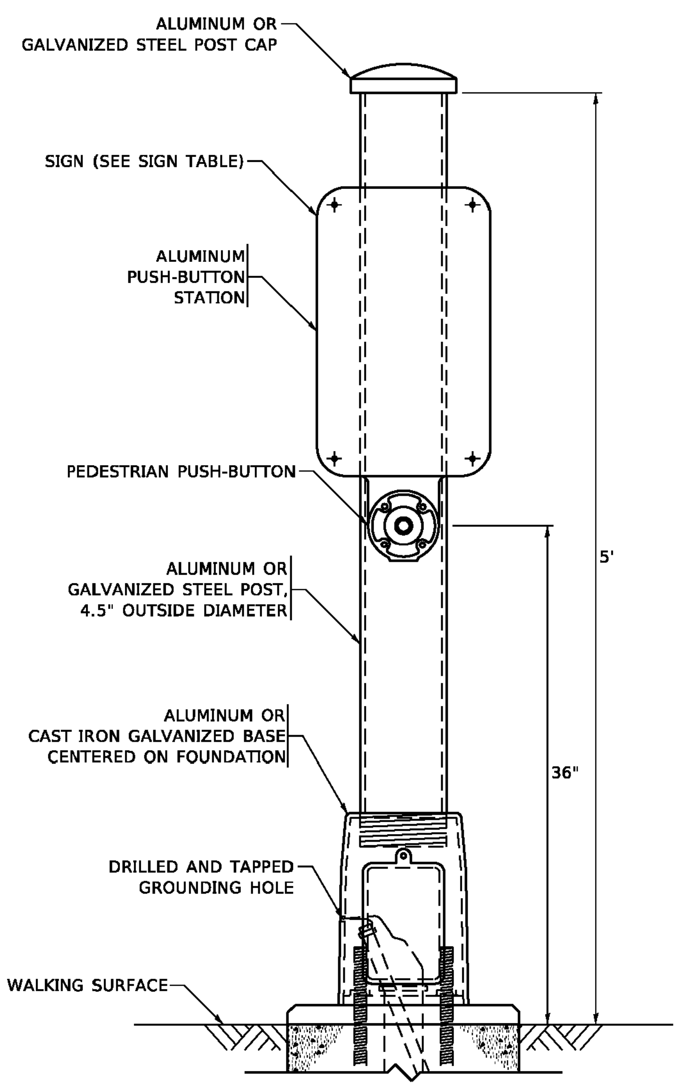
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

SIGN TABLE

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

NOTES:

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1\d1s05.dgn

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = gaglianobt	DESIGNED - IP	REVISED - 10-15-2020
		DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 11/23/2020	DATE - 10-15-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	40
	TS-05	CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		

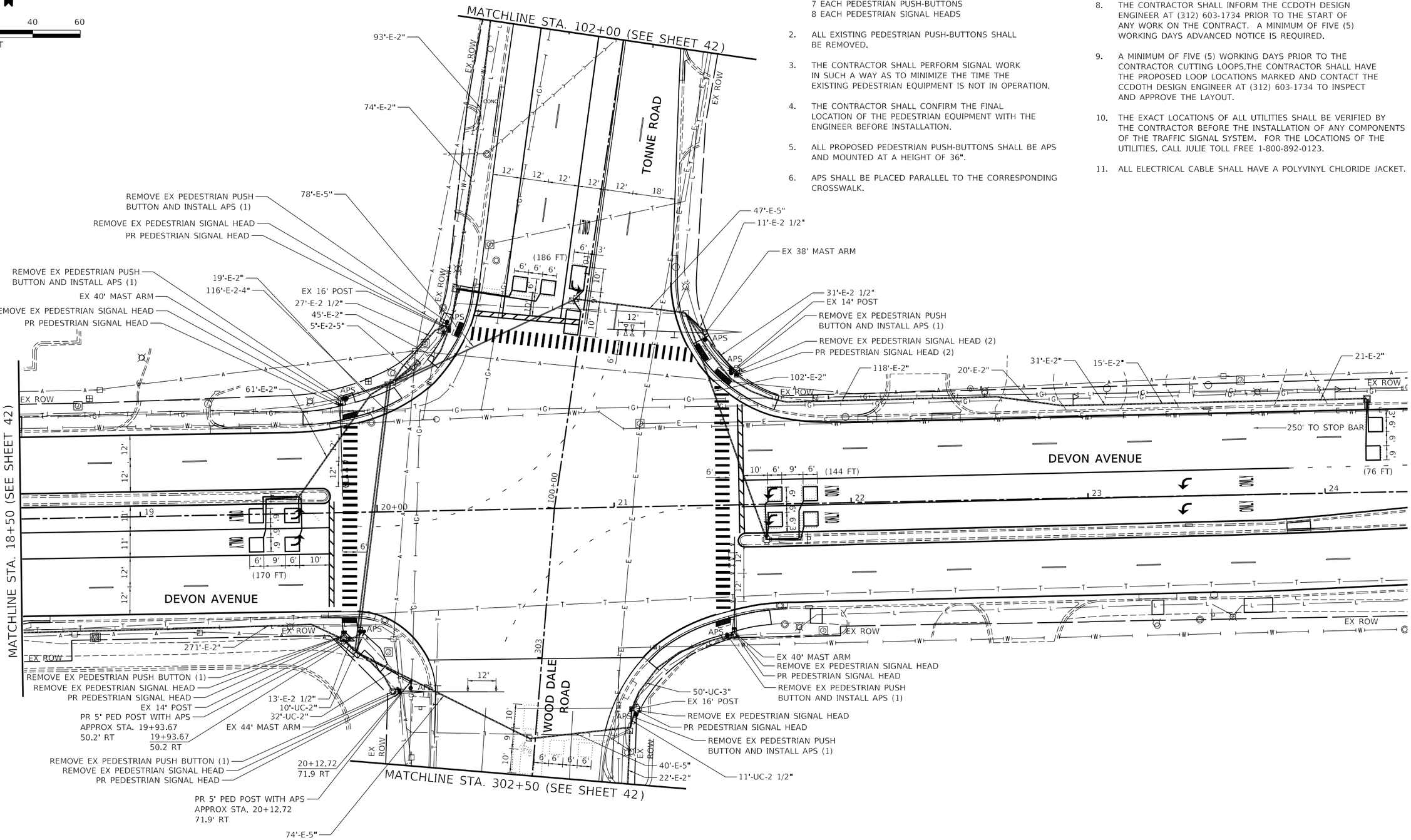
N

0 20 40 60

SCALE IN FEET

NOTES:

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF WAY AT THEIR EXPENSE AND THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:
   7 EACH PEDESTRIAN PUSH-BUTTONS
   8 EACH PEDESTRIAN SIGNAL HEADS
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. THE CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS NOT IN OPERATION.
4. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE ENGINEER BEFORE INSTALLATION.
5. ALL PROPOSED PEDESTRIAN PUSH-BUTTONS SHALL BE APS AND MOUNTED AT A HEIGHT OF 36".
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
7. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
8. THE CONTRACTOR SHALL INFORM THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.
9. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE CONTRACTOR CUTTING LOOPS,THE CONTRACTOR SHALL HAVE THE PROPOSED LOOP LOCATIONS MARKED AND CONTACT THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 TO INSPECT AND APPROVE THE LAYOUT.
10. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE 1-800-892-0123.
11. ALL ELECTRICAL CABLE SHALL HAVE A POLYVINYL CHLORIDE JACKET.



Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME -	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE -	CHECKED -	REVISED -
	PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

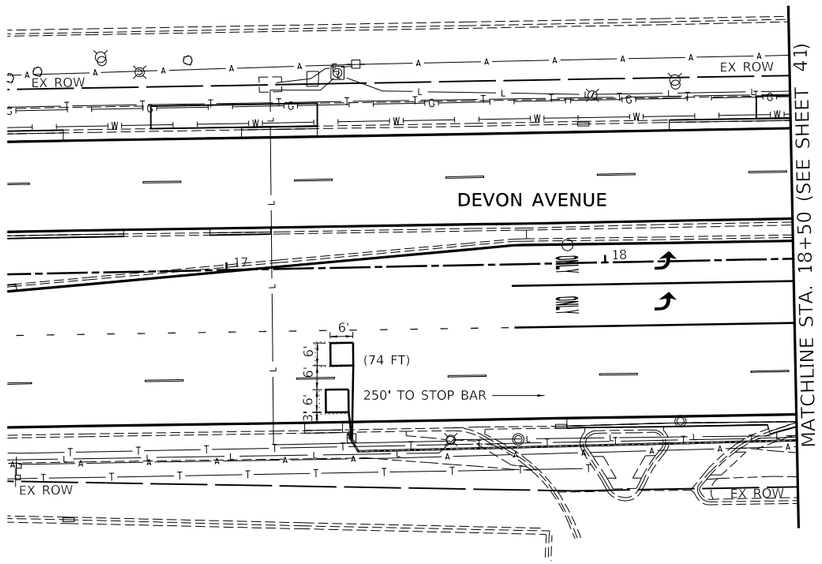
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
TRAFFIC SIGNAL PLAN

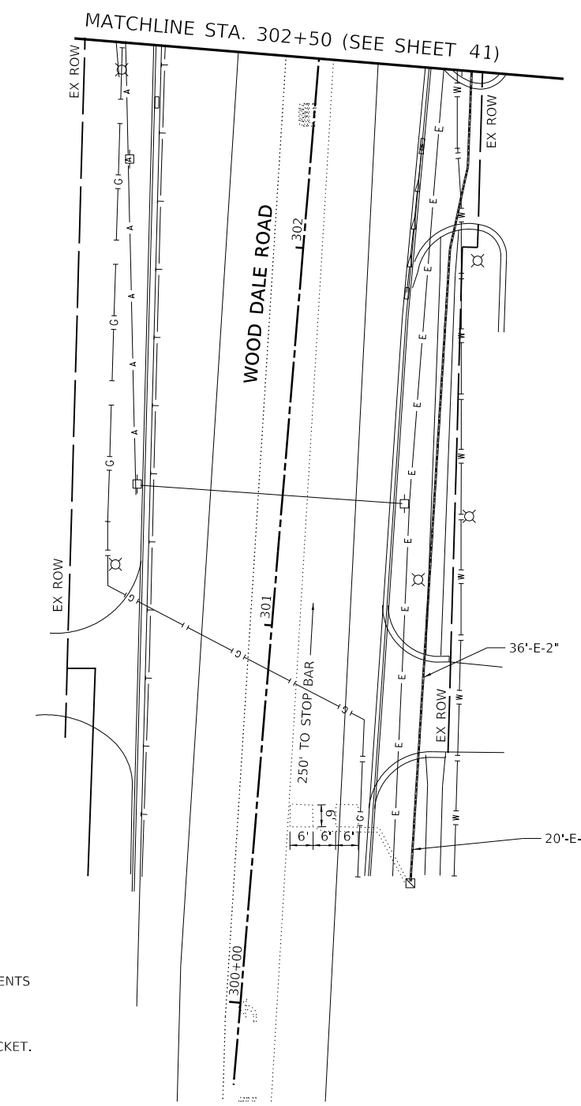
SCALE: N/A | SHEET 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

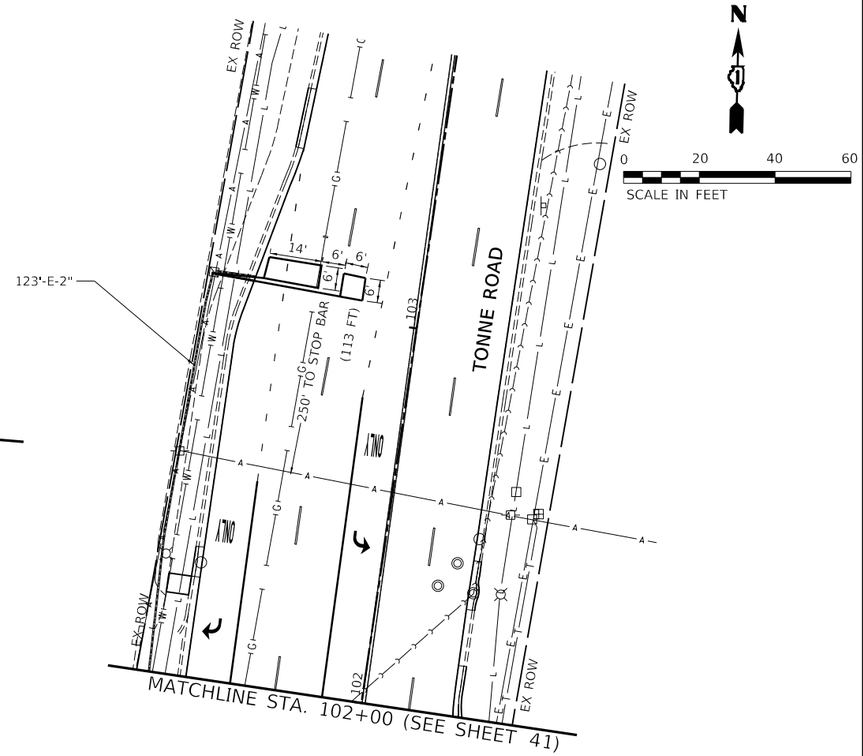
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	41
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = IMarvig PLOT SCALE = 1:40
PLOT DATE = 2/9/2024 10:24:41 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Engl\EGV2302 - SHT - TS 01.dgn

Path: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TS 01.dgn







NOTES:

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF WAY AT THEIR EXPENSE AND THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:
   7 EACH PEDESTRIAN PUSH-BUTTONS
   8 EACH PEDESTRIAN SIGNAL HEADS
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. THE CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS NOT IN OPERATION.
4. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE ENGINEER BEFORE INSTALLATION.
5. ALL PROPOSED PEDESTRIAN PUSH-BUTTONS SHALL BE APS AND MOUNTED AT A HEIGHT OF 36".
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
7. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
8. THE CONTRACTOR SHALL INFORM THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.
9. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE CONTRACTOR CUTTING LOOPS,THE CONTRACTOR SHALL HAVE THE PROPOSED LOOP LOCATIONS MARKED AND CONTACT THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 TO INSPECT AND APPROVE THE LAYOUT.
10. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE 1-800-892-0123.
11. ALL ELECTRICAL CABLE SHALL HAVE A POLYVINYL CHLORIDE JACKET.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

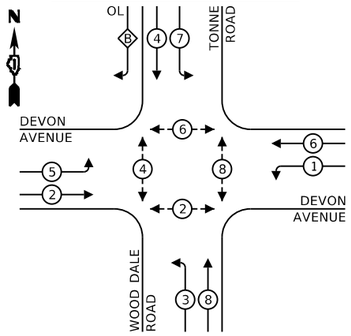
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
TRAFFIC SIGNAL PLAN

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

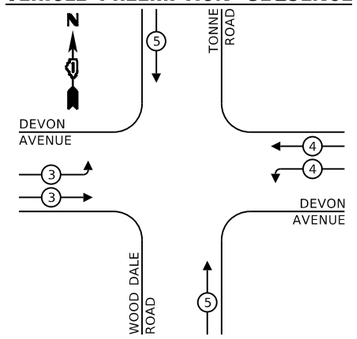
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	42
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = iMarvig PLOT SCALE = 1:40
PLOT DATE = 2/29/2024 10:24:42 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TS 02.dgn
Path=H:\SDSKProj\EGV Elk Grove Village~2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TS 02.dgn

EXISTING CONTROLLER SEQUENCE

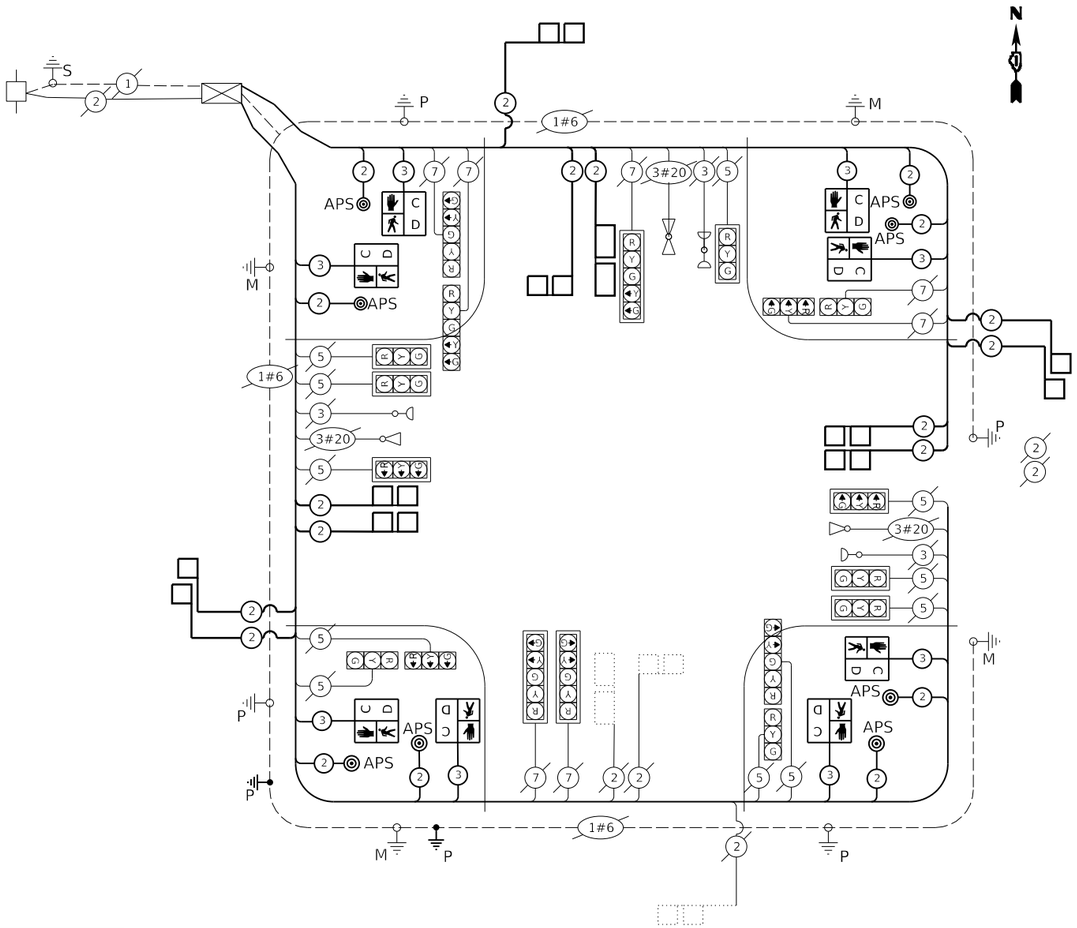


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- FF — FREE FLOW



RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

LOCATION: Devon Avenue at Tonne Road COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	**NO. LAMPS**	**WATTAGE**	**% OPERATION**	**TOTAL WATTAGE**
CONTROLLER	1	100	1	100.00
VEHICLE DET.	14	5	1	70.00
PED. SIGNAL	8	25	1	200.00
12" SIGNAL (RED)	18	17	0.5	153.00
(YELLOW)	14	25	0.05	17.50
(GREEN)	14	15	0.45	94.50
(ARROW)	4	12	0.1	4.80
ILLUMINATED LED STREET NAME 6'		108	0.4	0.00
ILLUMINATED LED STREET NAME 8'		144	0.4	0.00
HEATER	1	200	0.3	60.00
UPS		25	1	0.00
VIDEO DET.		25	1	0.00
			TOTAL =	699.80

ENERGY COST TO:
Cook County Bureau of Asset Management 69 W. Washington, Ste. 3100
Chicago, IL 60602
TOWER ACCOUNT NO. 8525916000
Village of Elk Grove Village
901 Wellington Avenue Elk Grove Village, IL 60007

ENERGY COST SHARE:
COOK COUNTY: 50%
Elk Grove Village: 50%

ENERGY SUPPLY CONTACT ComEd
PHONE: (866)639-3532
COMPANY: ComEd

EFFECTIVE DATE: TO BE DETERMINED

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	TOTAL QTY.
*	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	52
*	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
*	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,441
*	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	767
*	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	73
*	DRILL EXISTING HANDHOLE	EACH	3
*	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
*	DETECTOR LOOP, TYPE I	FOOT	794
*	MODIFY EXISTING CONTROLLER	EACH	1
*	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,500
*	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	REBUILD EXISTING HANDHOLE	EACH	1
*	PEDESTRIAN SIGNAL POST, 5 FT	EACH	2
*	REBUILD EXISTING DOUBLE HANDHOLE	EACH	1
*	ACCESSIBLE PEDESTRIAN SIGNALS	FOOT	8
*	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	EACH	8
*	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* INDICATES SPECIALTY ITEM

NOTES:

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF WAY AT THEIR EXPENSE AND THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:
   7 EACH PEDESTRIAN PUSH-BUTTONS
   8 EACH PEDESTRIAN SIGNAL HEADS
2. ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.
3. THE CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS NOT IN OPERATION.
4. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE ENGINEER BEFORE INSTALLATION.
5. ALL PROPOSED PEDESTRIAN PUSH-BUTTONS SHALL BE APS AND MOUNTED AT A HEIGHT OF 36".
6. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
7. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
8. THE CONTRACTOR SHALL INFORM THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.
9. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE CONTRACTOR CUTTING LOOPS,THE CONTRACTOR SHALL HAVE THE PROPOSED LOOP LOCATIONS MARKED AND CONTACT THE CCDOTH DESIGN ENGINEER AT (312) 603-1734 TO INSPECT AND APPROVE THE LAYOUT.
10. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE 1-800-892-0123.
11. ALL ELECTRICAL CABLE SHALL HAVE A POLYVINYL CHLORIDE JACKET.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

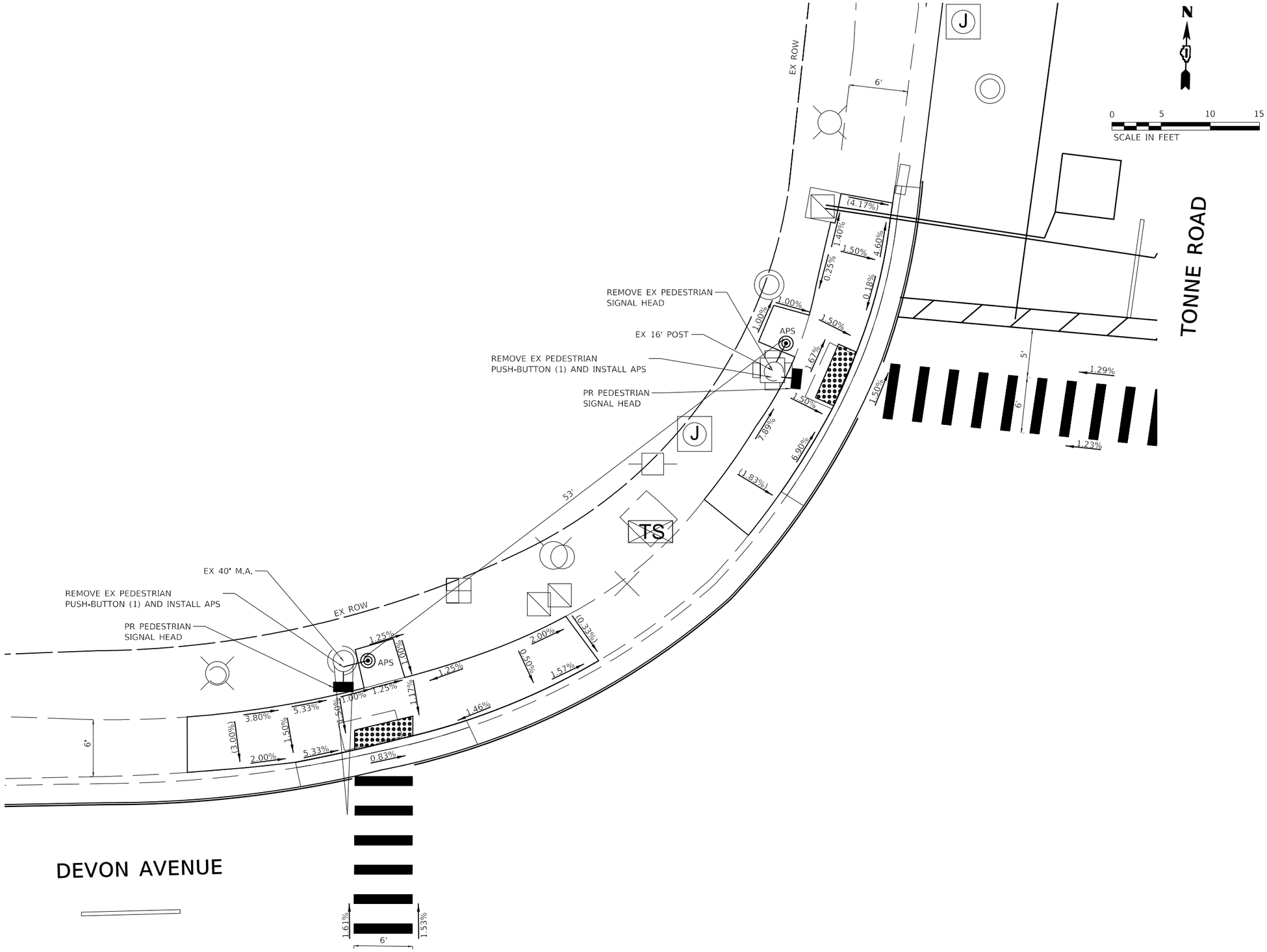
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	43
		CONTRACT NO. 61L07		
		ILLINOIS	FED. AID PROJECT	

USER NAME = JMarvig PLOT SCALE = 1:2
PLOT DATE = 12/9/2024 10:24:44 AM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TS 03.dgn
Path: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - TS 03.dgn



LEGEND

- PR PEDESTRIAN PUSH BUTTON
- PR UNDERGROUND CONDUIT
- PR ADA DETECTABLE WARNING
- EX HANDHOLE
- EX JUNCTION BOX
- EX TRAFFIC SIGNAL HEAD
- EX TRAFFIC SIGNAL POST
- EX TRAFFIC STREET LIGHT
- EX TRAFFIC STREET SIGN
- EX TRAFFIC SIGNAL

GENERAL NOTES

1. THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS SHALL INCLUDE THE INTERACTIVE VIBROTACTINE PEDESTRIAN PUSH-BUTTON WITH SPEAKER, AN INFORMATIONAL SIGN, A LIGHT-EMITTING DIODE (LED) INDICATOR LIGHT, A SOLID-STATE ELECTRONIC CONTROL BOARD, A POWER SUPPLY, INTERNAL WIRING AND MOUNTING HARDWARE.
2. THE INFORMATIONAL SIGN SHALL CONFORM TO ONE OF THE FOLLOWING MUTCD STANDARD SIGNS: R10-3B, R10-3D OR R10-3E THE SELECTION OF THE SIGN SHALL BE APPROVED BY THE ENGINEER.
3. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
4. ALL PEDESTRIAN PUSH-BUTTON POSTS SHALL BE LOCATED AS SHOWN IN THE PLANS.
5. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE WITHIN 10 FT. FROM THE BACK OF THE CURB OR THE EDGE OF PAVEMENT FOR EACH CROSSING. THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH-BUTTON EXTENSIONS TO MEET THIS REQUIREMENT. IF EXTENSIONS ARE REQUIRED, THE PUSH-BUTTONS SHALL MEET PROWAG PROTRUDING OBJECT REQUIREMENTS.
6. MOUNTING HEIGHT OF PEDESTRIAN PUSH-BUTTONS SHALL BE 36 INCHES (PREFERRED) FROM THE SIDEWALK SURFACE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

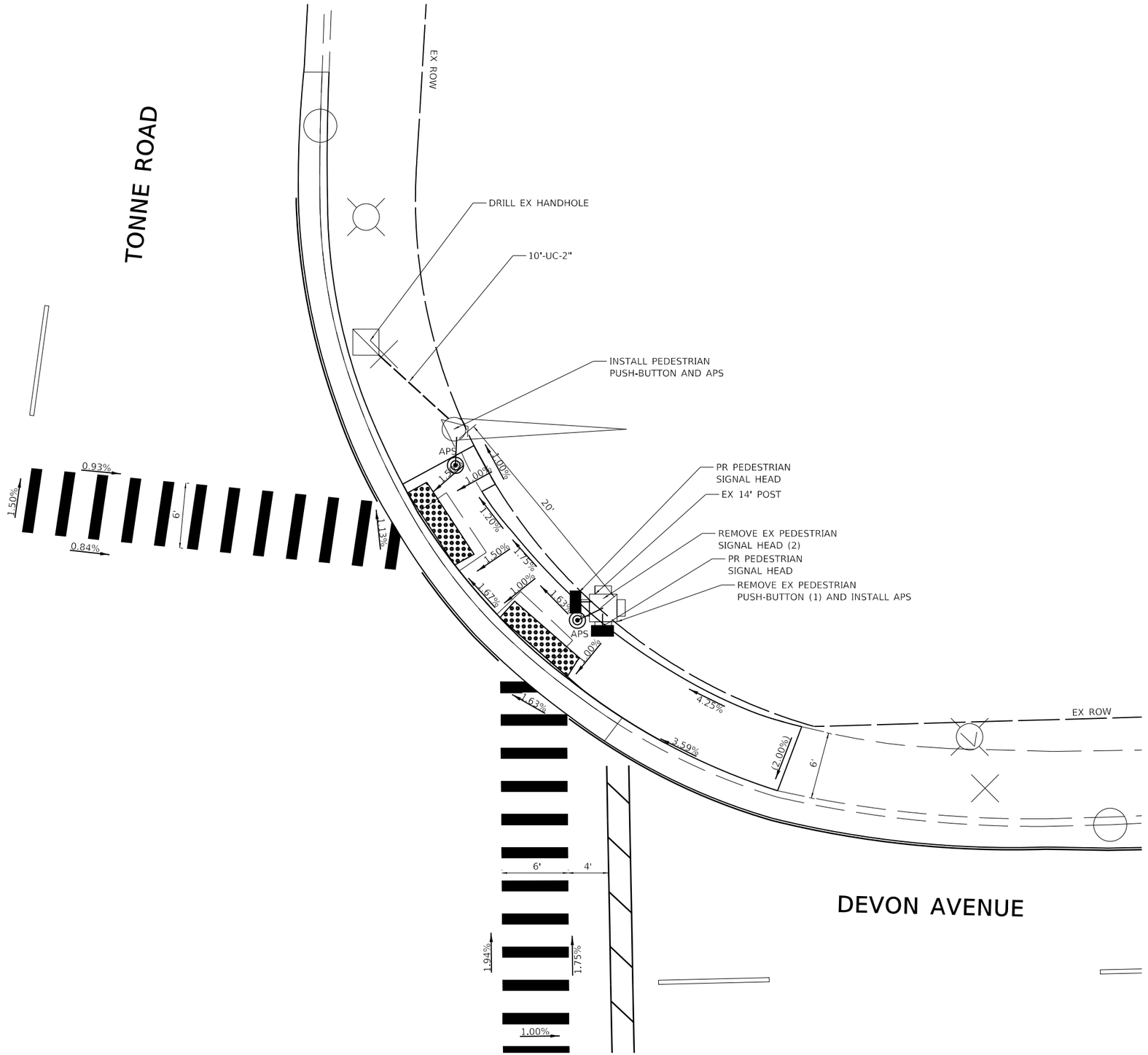
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
NORTHWEST CORNER ACCESSIBLE PEDESTRIAN SIGNAL DETAIL

SCALE: 1" = 5' | SHEET 1 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	44
		CONTRACT NO. 61L07		
		ILLINOIS FED. AID PROJECT		

USER NAME = jmarvig PLOT SCALE = 1:10
PLOT DATE = 7/8/2024 2:34:36 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 01.dgn

Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 01.dgn



N

0 5 10 15

SCALE IN FEET

LEGEND

- PR PEDESTRIAN PUSH BUTTON
- PR UNDERGROUND CONDUIT
- PR ADA DETECTABLE WARNING
- EX HANDHOLE
- EX JUNCTION BOX
- EX TRAFFIC SIGNAL HEAD
- EX TRAFFIC SIGNAL POST
- EX TRAFFIC STREET LIGHT
- EX TRAFFIC STREET SIGN
- EX TRAFFIC SIGNAL

GENERAL NOTES

1. THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS SHALL INCLUDE THE INTERACTIVE VIBROTACTINE PEDESTRIAN PUSH-BUTTON WITH SPEAKER, AN INFORMATIONAL SIGN, A LIGHT-EMITTING DIODE (LED) INDICATOR LIGHT, A SOLID-STATE ELECTRONIC CONTROL BOARD, A POWER SUPPLY, INTERNAL WIRING AND MOUNTING HARDWARE.
2. THE INFORMATIONAL SIGN SHALL CONFORM TO ONE OF THE FOLLOWING MUTCD STANDARD SIGNS: R10-3B, R10-3D OR R10-3E THE SELECTION OF THE SIGN SHALL BE APPROVED BY THE ENGINEER.
3. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
4. ALL PEDESTRIAN PUSH-BUTTON POSTS SHALL BE LOCATED AS SHOWN IN THE PLANS.
5. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE WITHIN 10 FT. FROM THE BACK OF THE CURB OR THE EDGE OF PAVEMENT FOR EACH CROSSING. THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH-BUTTON EXTENSIONS TO MEET THIS REQUIREMENT. IF EXTENSIONS ARE REQUIRED, THE PUSH-BUTTONS SHALL MEET PROWAG PROTRUDING OBJECT REQUIREMENTS.
6. MOUNTING HEIGHT OF PEDESTRIAN PUSH-BUTTONS SHALL BE 36 INCHES (PREFERRED) FROM THE SIDEWALK SURFACE.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

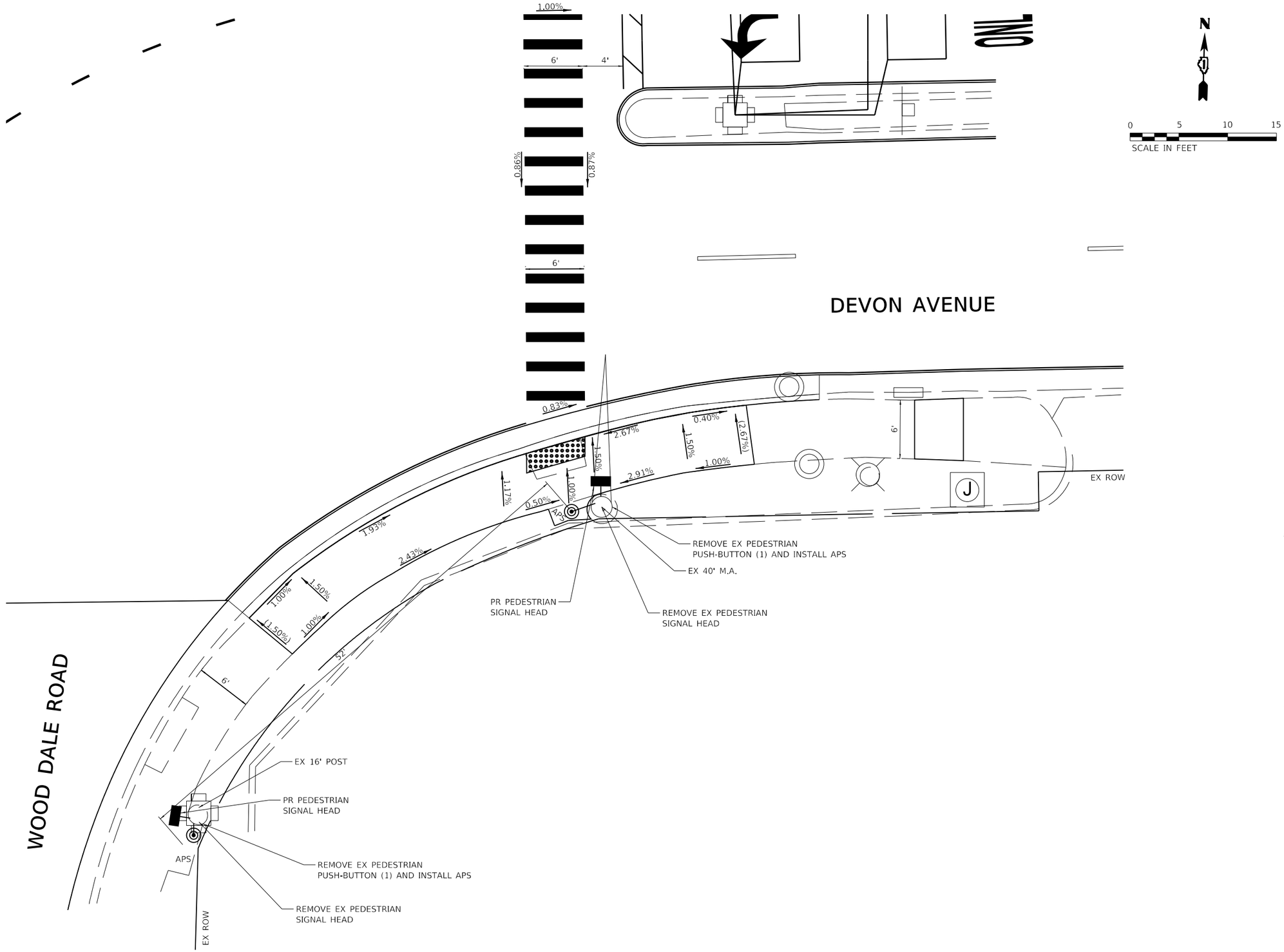
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
NORTHEAST CORNER ACCESSIBLE PEDESTRIAN SIGNAL DETAIL

SCALE: 1" = 5' | SHEET 2 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	45
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = IMarvin PLOT SCALE = 1:10
PLOT DATE = 2/9/2024 10:24:47 AM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 02.dgn

Path=H:\SDSKPro\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 02.dgn



LEGEND

- PR PEDESTRIAN PUSH BUTTON
- PR UNDERGROUND CONDUIT
- PR ADA DETECTABLE WARNING
- EX HANDHOLE
- EX JUNCTION BOX
- EX TRAFFIC SIGNAL HEAD
- EX TRAFFIC SIGNAL POST
- EX TRAFFIC STREET LIGHT
- EX TRAFFIC STREET SIGN
- EX TRAFFIC SIGNAL

GENERAL NOTES

1. THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS SHALL INCLUDE THE INTERACTIVE VIBROTACTINE PEDESTRIAN PUSH-BUTTON WITH SPEAKER, AN INFORMATIONAL SIGN, A LIGHT-EMITTING DIODE (LED) INDICATOR LIGHT, A SOLID-STATE ELECTRONIC CONTROL BOARD, A POWER SUPPLY, INTERNAL WIRING AND MOUNTING HARDWARE.
2. THE INFORMATIONAL SIGN SHALL CONFORM TO ONE OF THE FOLLOWING MUTCD STANDARD SIGNS: R10-3B, R10-3D OR R10-3E THE SELECTION OF THE SIGN SHALL BE APPROVED BY THE ENGINEER.
3. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
4. ALL PEDESTRIAN PUSH-BUTTON POSTS SHALL BE LOCATED AS SHOWN IN THE PLANS.
5. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE WITHIN 10 FT. FROM THE BACK OF THE CURB OR THE EDGE OF PAVEMENT FOR EACH CROSSING. THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH-BUTTON EXTENSIONS TO MEET THIS REQUIREMENT. IF EXTENSIONS ARE REQUIRED, THE PUSH-BUTTONS SHALL MEET PROWAG PROTRUDING OBJECT REQUIREMENTS.
6. MOUNTING HEIGHT OF PEDESTRIAN PUSH-BUTTONS SHALL BE 36 INCHES (PREFERRED) FROM THE SIDEWALK SURFACE.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

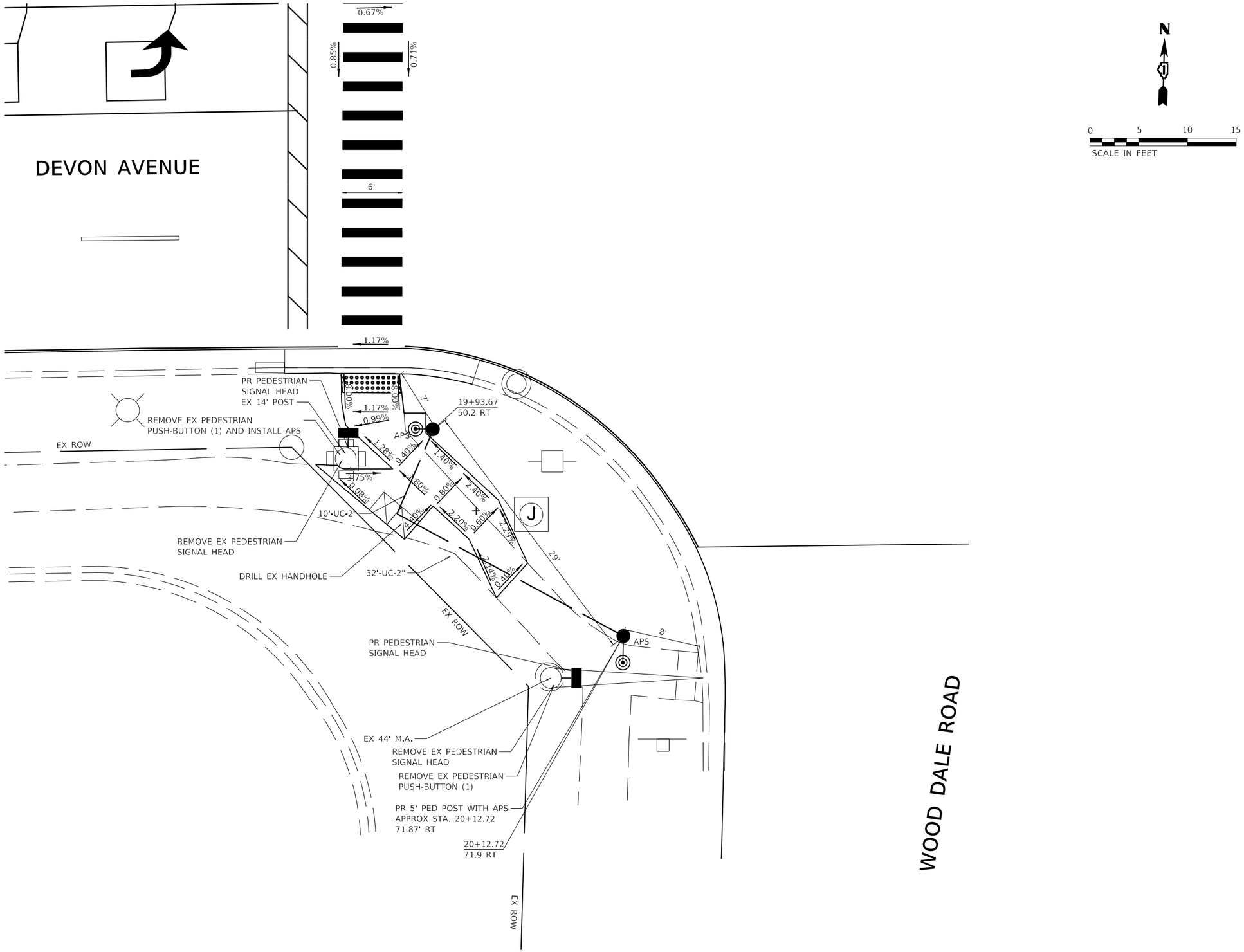
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SOUTHEAST CORNER ACCESSIBLE PEDESTRIAN SIGNAL DETAIL

SCALE: 1" = 5' | SHEET 3 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	46
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = tHarvin PLOT SCALE = 1:10
PLOT DATE = 2/29/2024 10:24:48 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 03.dgn

PathH:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 03.dgn



N

0 5 10 15

SCALE IN FEET

LEGEND

- PR PEDESTRIAN PUSH BUTTON
- PR UNDERGROUND CONDUIT
- PR ADA DETECTABLE WARNING
- EX HANDHOLE
- EX JUNCTION BOX
- EX TRAFFIC SIGNAL HEAD
- EX TRAFFIC SIGNAL POST
- EX TRAFFIC STREET LIGHT
- EX TRAFFIC STREET SIGN
- EX TRAFFIC SIGNAL

GENERAL NOTES

1. THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS SHALL INCLUDE THE INTERACTIVE VIBROTACTINE PEDESTRIAN PUSH-BUTTON WITH SPEAKER, AN INFORMATIONAL SIGN, A LIGHT-EMITTING DIODE (LED) INDICATOR LIGHT, A SOLID-STATE ELECTRONIC CONTROL BOARD, A POWER SUPPLY, INTERNAL WIRING AND MOUNTING HARDWARE.
2. THE INFORMATIONAL SIGN SHALL CONFORM TO ONE OF THE FOLLOWING MUTCD STANDARD SIGNS: R10-3B, R10-3D OR R10-3E THE SELECTION OF THE SIGN SHALL BE APPROVED BY THE ENGINEER.
3. ALL STATION AND OFFSETS ARE REFERENCED TO THE DEVON AVENUE CENTERLINE ALIGNMENT
4. ALL PEDESTRIAN PUSH-BUTTON POSTS SHALL BE LOCATED AS SHOWN IN THE PLANS.
5. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE WITHIN 10 FT. FROM THE BACK OF THE CURB OR THE EDGE OF PAVEMENT FOR EACH CROSSING. THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH-BUTTON EXTENSIONS TO MEET THIS REQUIREMENT. IF EXTENSIONS ARE REQUIRED, THE PUSH-BUTTONS SHALL MEET PROWAG PROTRUDING OBJECT REQUIREMENTS.
6. MOUNTING HEIGHT OF PEDESTRIAN PUSH-BUTTONS SHALL BE 36 INCHES (PREFERRED) FROM THE SIDEWALK SURFACE.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

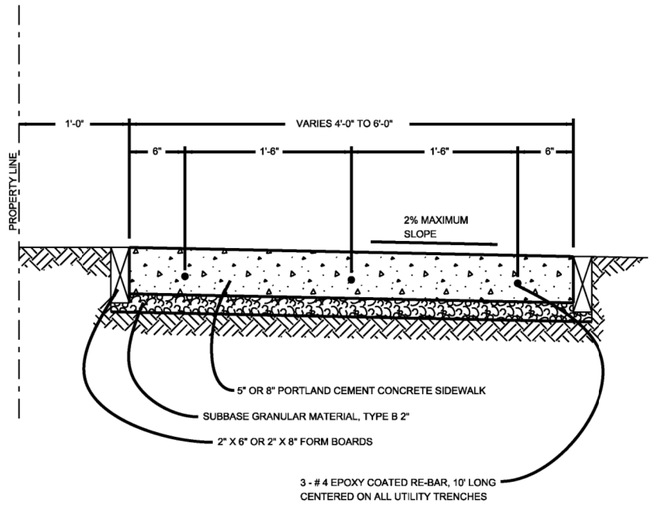
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
SOUTHWEST CORNER ACCESSIBLE PEDESTRIAN SIGNAL DETAIL

SCALE: 1" = 5' | SHEET 4 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	47
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = MarkVh PLOT SCALE = 1:10
PLOT DATE = 2/9/2024 10:24:49 AM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 04.dgn

Path=H:\SDSKProj\EGV_Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302 - SHT - APS 04.dgn



NOTE:

1. PROVIDE 1/2" PREFORMED EXPANSION JOINT (FULL DEPTH) AT 50' INTERVALS AND ALONG ALL ABUTTING CONCRETE WORK.

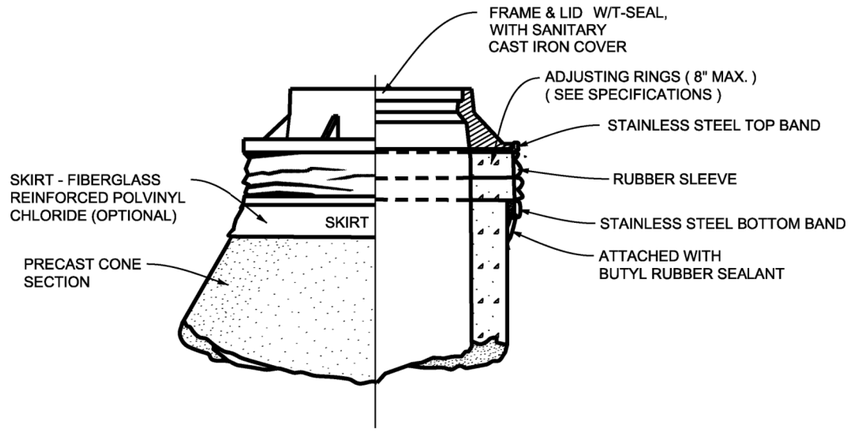
2. ALL CURB SIDEWALK RAMPS SHALL MEET THE APPLICABLE IDOT STANDARDS 424001, 424006, 424011, 424016, OR 424021.

3. DETECTABLE WARNING PANELS SHALL BE ONE OF THE PRODUCTS SPECIFIED IN THE SPECIAL PROVISIONS AND SHALL BE INSTALLED PER THE APPLICABLE IDOT STANDARDS 424001, 424006, 424011, 424016, OR 424021.

4. SEE THE SPECIFICATIONS FOR LANDSCAPE AND PAVEMENT RESTORATION.

5. SIDEWALK THROUGH DRIVE ENTRANCES SHALL HAVE CONTRACTION JOINTS ON 4-FOOT CENTERS UNLESS OTHERWISE DIRECTED BY ENGINEER.

PCC SIDEWALK



CHIMNEY SEAL

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

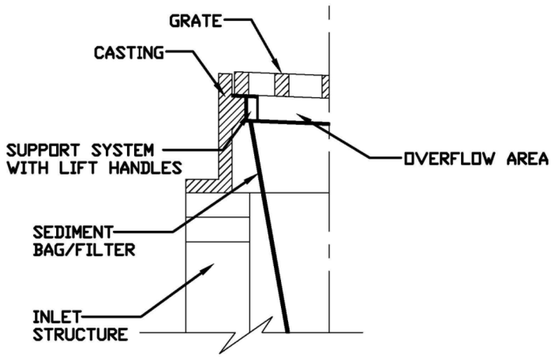
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

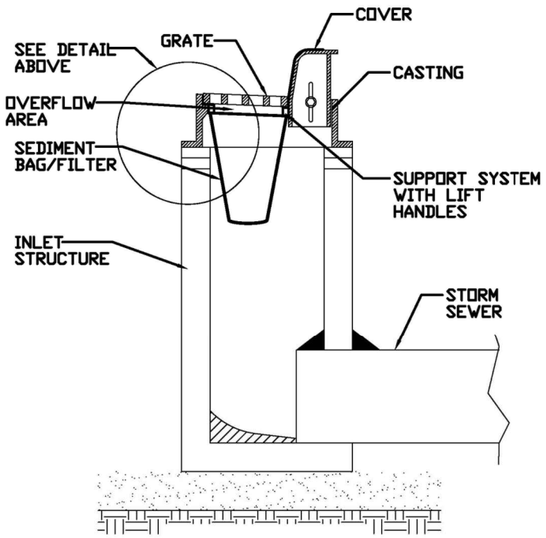
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
VILLAGE OF ELK GROVE VILLAGE DETAILS

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	48
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

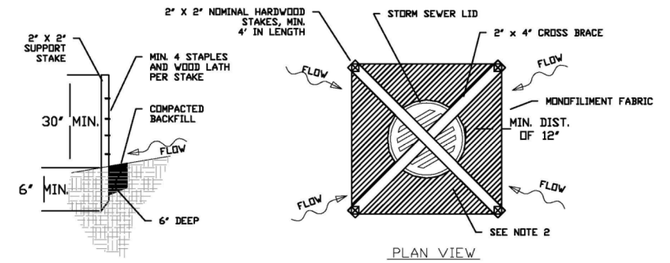
INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION

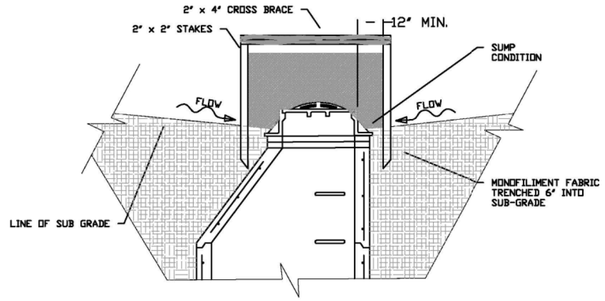




REFERENCE		STANDARD DWG. NO.
Project		IUM-561D
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 01-11-11
Approved ____ Date ____		

INLET PROTECTION -MONOFILAMENT FABRIC BARRIER FENCE





NOTES:

1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.

2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone

3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.

4. Stakes must be a maximum of 4 feet apart.

5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilment fabric.

6. Monofilment fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.

7. Monofiliment fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.

REFERENCE		STANDARD DWG. NO.
Project		IUM-531
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 04-6-15
Approved ____ Date ____		

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

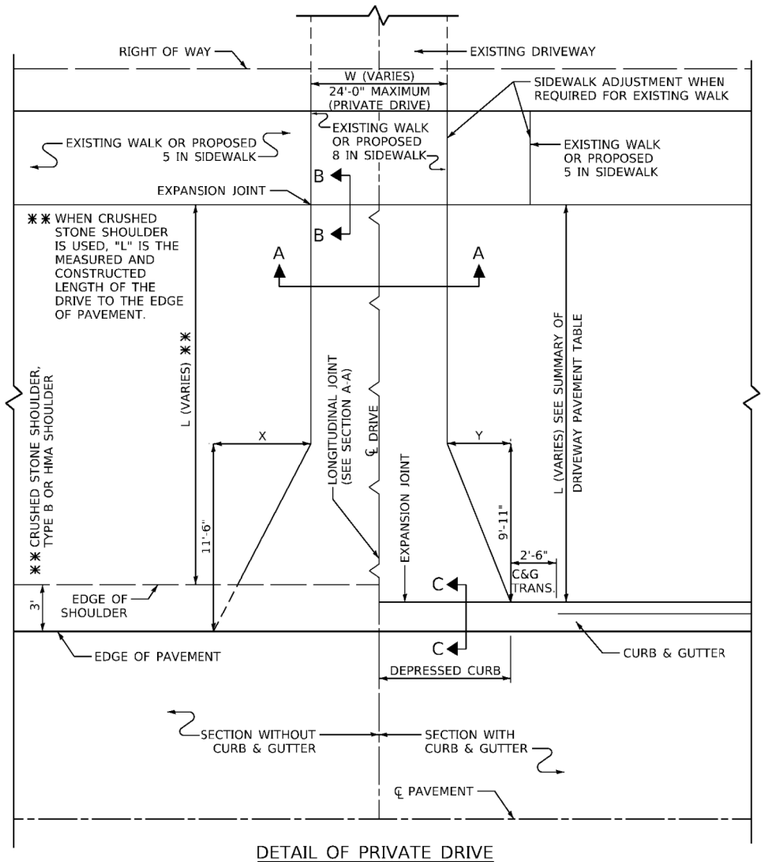
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
EROSION CONTROL SYSTEM DETAILS

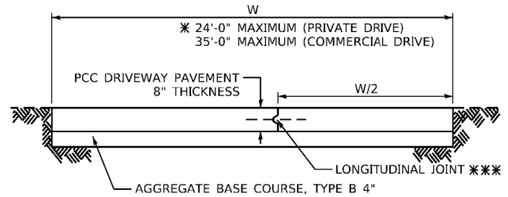
SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	49
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = jMarvig PLOT SCALE = 1:2
PLOT DATE = 11/8/2024 2:34:50 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01C IUM.dgn
Path: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-01C IUM.dgn

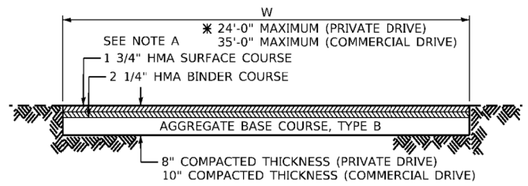


DETAIL OF PRIVATE DRIVE

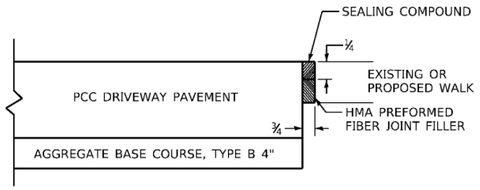


✱✱✱ WHEN 'W' IS GREATER THAN 16'-0", A LONGITUDINAL CONSTRUCTION JOINT AS DETAILED ON IDOT HIGHWAY STANDARD 420001 SHALL BE USED AS SHOWN.

SECTION A-A PCC DRIVEWAY

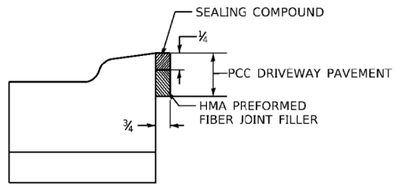


SECTION A-A HMA DRIVEWAY



SECTION B-B

THE EXPANSION JOINT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PORTLAND CEMENT CONCRETE SIDEWALK OR PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE DRIVEWAY.



SECTION C-C

CHART

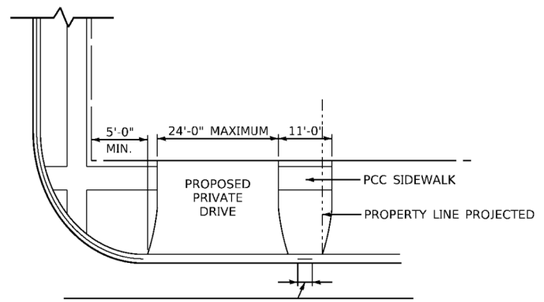
FOR DRIVEWAY WIDTH - W ✱ (FT)	X (FT)	Y (FT)
12	6.0	4.2
14 - 16	4.9	3.4
17 - 18	4.0	2.9
OVER 18	3.2	2.3

✱ PRIVATE DRIVES: 12'-0" MINIMUM, 24'-0" MAXIMUM

COMMERCIAL DRIVES: 12'-0" MINIMUM, 24'-0" MAXIMUM FOR 1-WAY OPERATION
24'-0" MINIMUM, 35'-0" MAXIMUM FOR 2-WAY OPERATION

MAXIMUM DRIVEWAY SLOPE

PROPERTY	URBAN	RURAL	RURAL (PERMIT WORK ONLY)
COMMERCIAL	6%	6%	10%
NON-COMMERCIAL	8%	8%	12%



DESIRABLE DISTANCE OF FULL CURB HEIGHT BETWEEN ADJACENT DRIVES SHALL BE 6'-0".
IT IS DESIRABLE THAT THE DRIVE RETURNS TERMINATE WITHIN THE PROPERTY LINE AS PROJECTED.

LIMITATIONS UPON PRIVATE DRIVES

AT STREET INTERSECTIONS
MAXIMUM WIDTH & MINIMUM DISTANCE
BETWEEN DRIVES

NOTE A

FOR HMA DRIVEWAYS: AS AN ALTERNATE TO THE 1 3/4" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-12.5 OR 9.5, N70, AND THE 2 1/4" HOT-MIX ASPHALT CONCRETE BINDER COURSE, IL-19, N70 4" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-12.5 OR 9.5 N70 MAY BE USED. IN THE EVENT THE CONTRACTOR ELECTS TO USE THIS ALTERNATE, THE ADDITIONAL 2 1/4" OF HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-12.5 OR 9.5 N70 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR HOT-MIX ASPHALT BINDER COURSE, IL-19, N70.

GENERAL NOTE:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

SUMMARY OF DRIVEWAY PAVEMENT

STATION	"L"	"W"	SQ YD PCC DRIVEWAY PAVEMENT	SQ YD HMA DRIVEWAY PAVEMENT	STATION	"L"	"W"	SQ YD PCC DRIVEWAY PAVEMENT	SQ YD HMA DRIVEWAY PAVEMENT

GUIDE FOR DRIVEWAY LENGTH

1. MEET EXISTING WALK (USE JOINT FOR PCC PAVEMENT SECTION B-B)
2. IF THERE IS NO EXISTING OR PROPOSED WALK, EXTEND TO RIGHT OF WAY LINE
3. IF THERE IS NO EXISTING WALK BUT A PROPOSED WALK IS REQUIRED, CONSTRUCT 8 INCH WALK FOR FULL DRIVEWAY WIDTH (SECTION B-B)
4. IF THERE IS A WALK ADJUSTMENT, CONSTRUCT 8" WALK FOR FULL DRIVEWAY WIDTH AND 5" WALK BEYOND.

QUANTITIES SHALL BE COMPUTED ON THE BASIS OF THE DRIVES EXTENDING TO SIDEWALK OR RIGHT OF WAY LINE AS SHOWN ON THE PLANS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE FIELD ENGINEER TO DETERMINE THE ACTUAL LIMITS OF EACH INSTANCE.

MUNICIPALITY, IL
MUNICIPALITY, IL
NAME TOWNSHIP

COUNTY HIGHWAY: XXX
FISCAL YEAR: XXXX
SECTION: XX-XXXXX-XX-XX

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

COMPUTED: XXX
DRAWN: XXX
CHECKED: XXX

REVISIONS	DATE
GENERAL	1/1/20

PRIVATE AND COMMERCIAL DRIVE DETAIL
COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
STANDARD C-002

C-XXX
NOT TO SCALE SHEET X

50 YEARS EEI
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

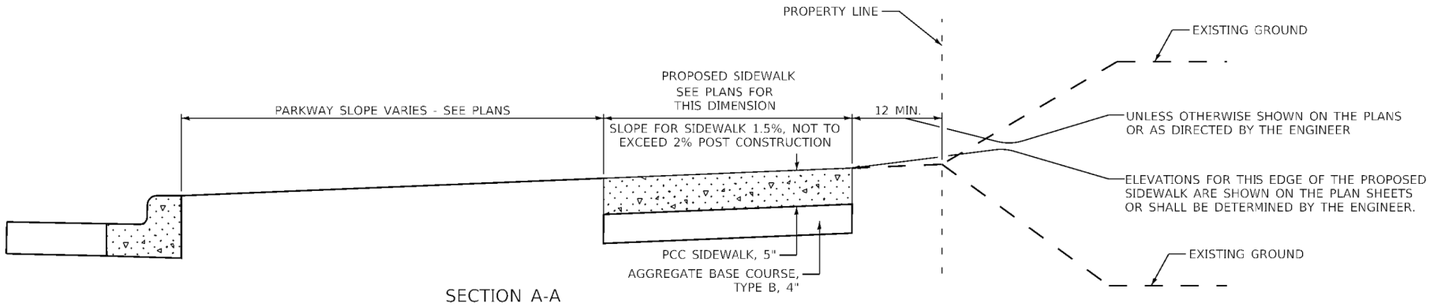
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
CCDOTH STANDARDS

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

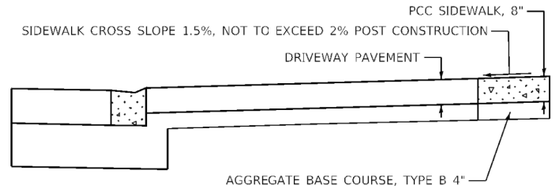
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	50
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = jmarvig PLOT SCALE = 1:2
PLOT DATE = 1/10/2024 2:35:00 PM
MODEL: Default
FILE NAME: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-02 COOK.dgn

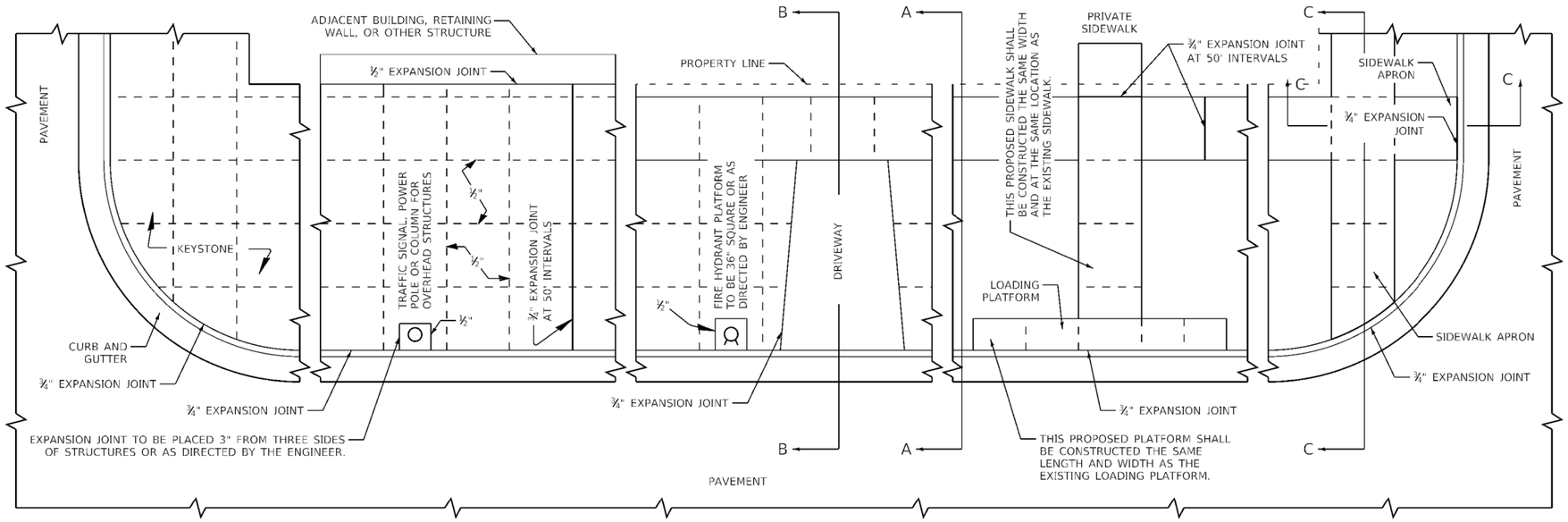
Path: H:\SDSKPro\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-02 COOK.dgn

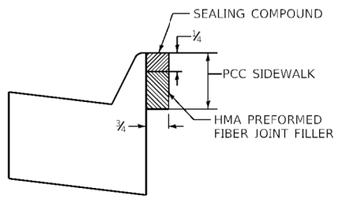


SECTION A-A

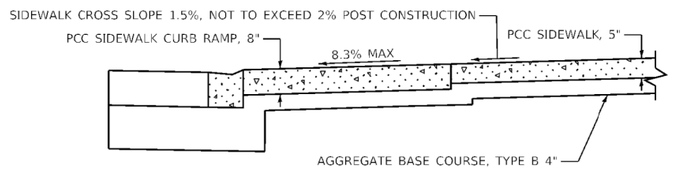


SECTION B-B





EXPANSION JOINT DETAIL



SECTION C-C

GENERAL NOTES:

ALL EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 424.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PORTLAND CEMENT CONCRETE SIDEWALK OF THE THICKNESS SPECIFIED.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

MUNICIPALITY, IL
MUNICIPALITY, IL
NAME TOWNSHIP

COUNTY HIGHWAY:	XXX
FISCAL YEAR:	XXXX
SECTION:	XX-XXXXX-XX-XX

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

COMPUTED:	XXX	
DRAWN:	XXX	
CHECKED:	XXX	

REVISIONS	DATE
GENERAL	1/1/20
NEW DRAWING SECTION C-C	11/10/22

PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION DETAIL
COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
STANDARD C-003

C-XXX

NOT TO SCALE SHEET X

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

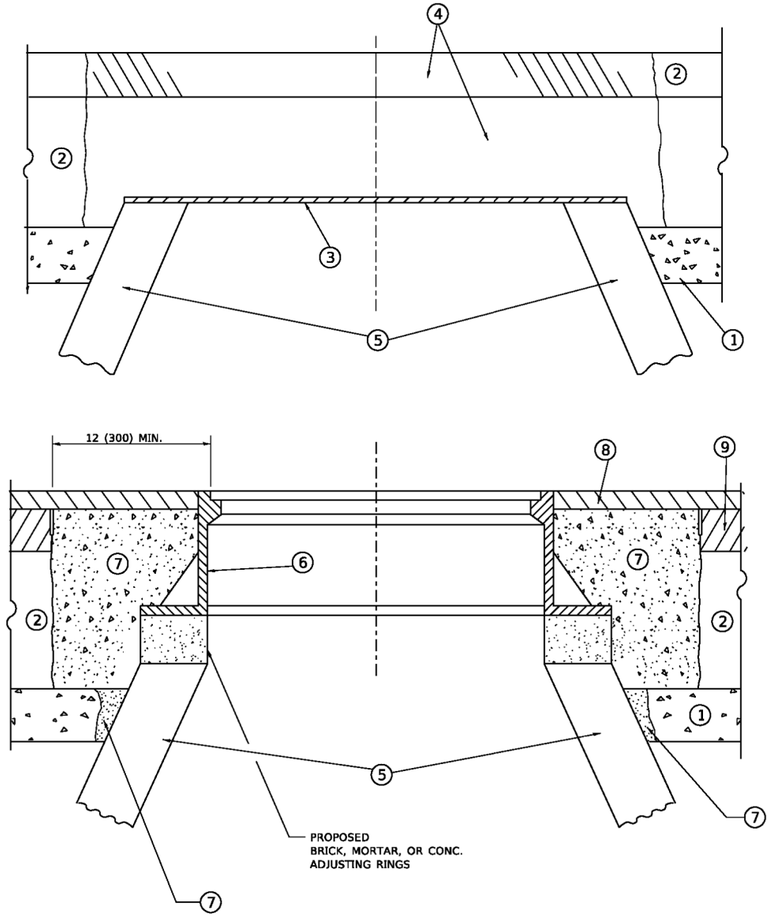
DEVON AVENUE AND TONNE ROAD INTERSECTION RESURFACING
CCDOTH STANDARDS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	51
		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

USER NAME = JHarvig PLOT SCALE = 1:2
PLOT DATE = 1/8/2024 2:35:17 PM
MODEL: Default
FILE NAME: H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-03 COOK.dgn

Paths:H:\SDSKProj\EGV Elk Grove Village\2023\EGV2302\Dgn Final Eng\EGV2302-sht-DET-03 COOK.dgn



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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.

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

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

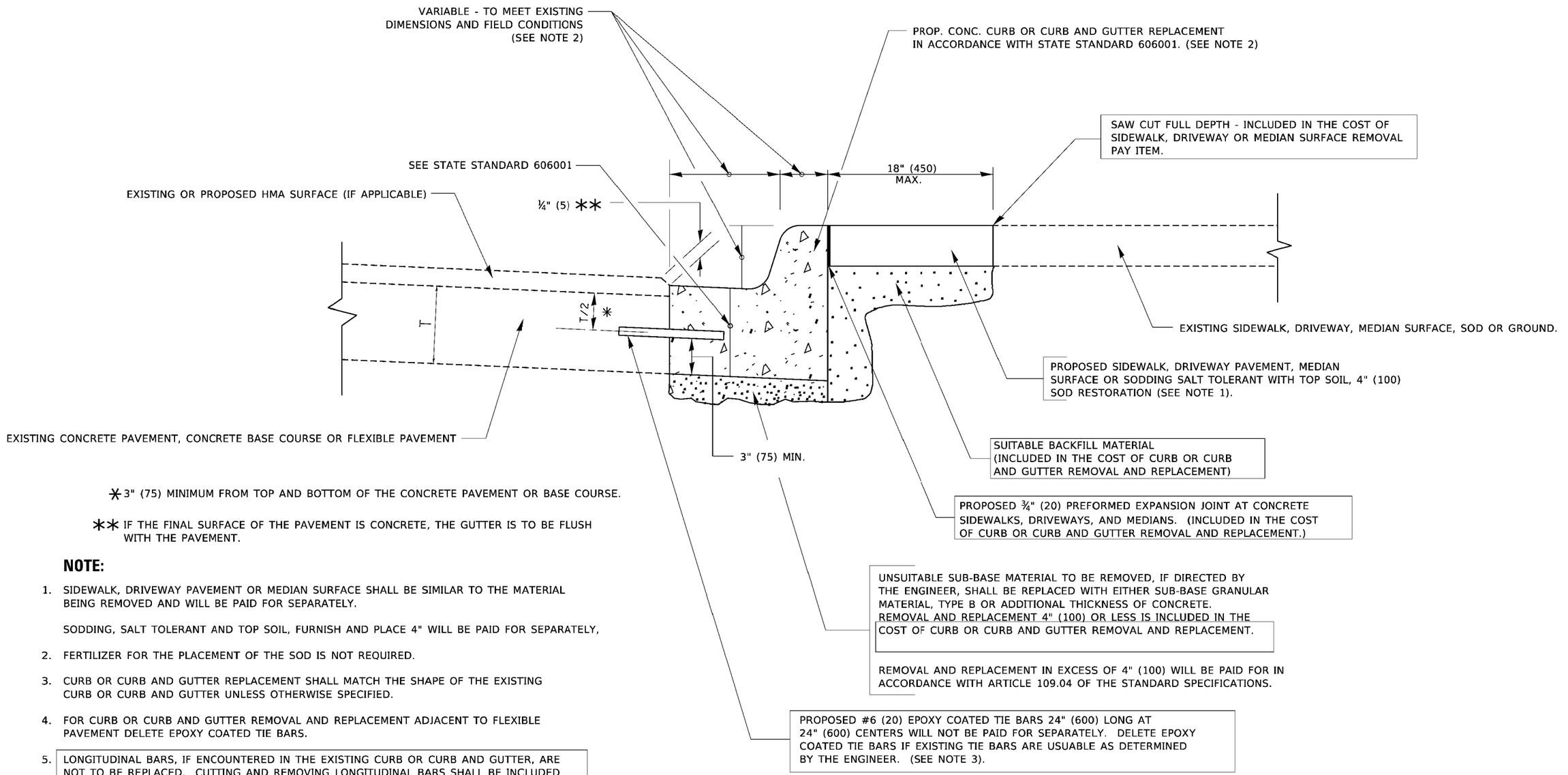
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

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.
1346	23-00080-00-RS	COOK	62	52
	BD600-03 (BD-08)	CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE:

1. SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

   SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

2. FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.

3. CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

4. FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

5. LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

6. THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

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

8. THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

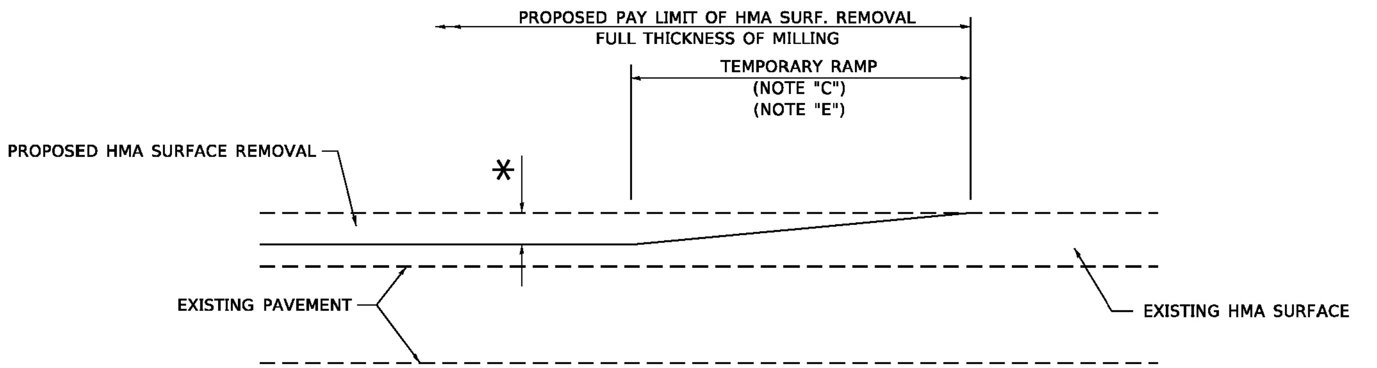
USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	
	DRAWN -	REVISED - A. ABBAS 03-21-97	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	
PLOT DATE = 3/27/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

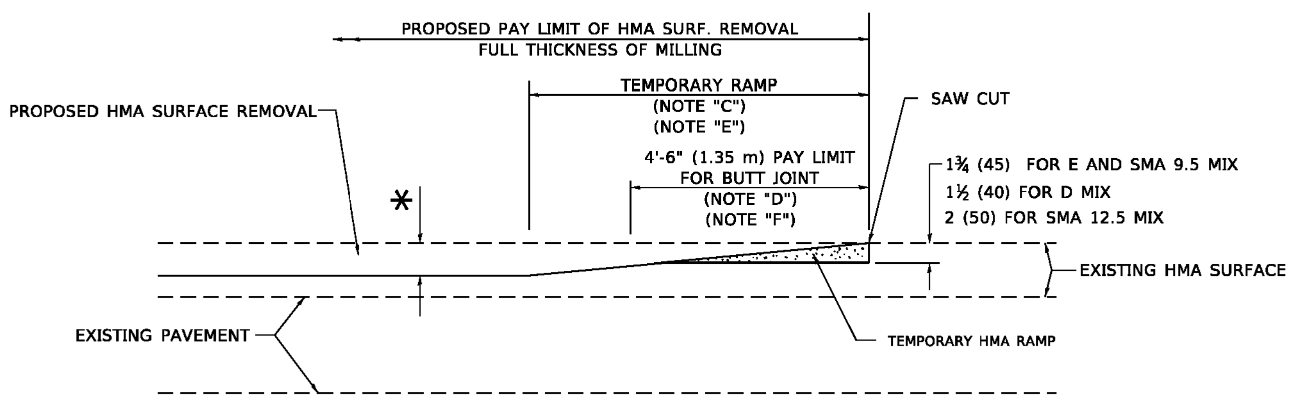
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	53
	BD600-06 (BD-24)	CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

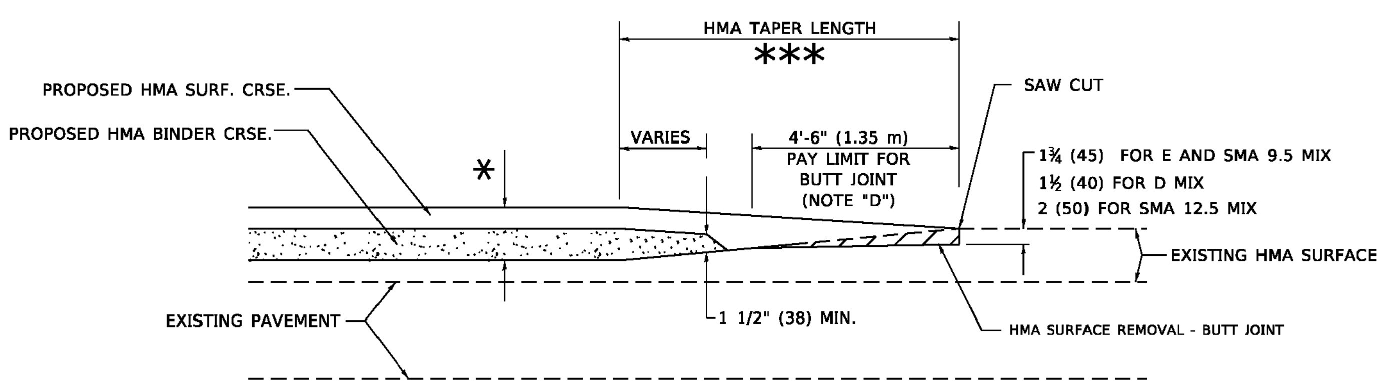


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

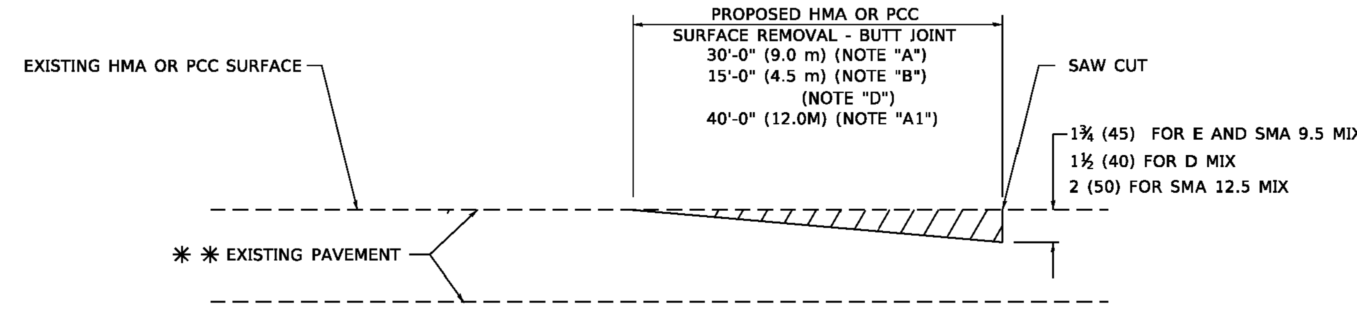
OPTION 2

TYPICAL TEMPORARY RAMP

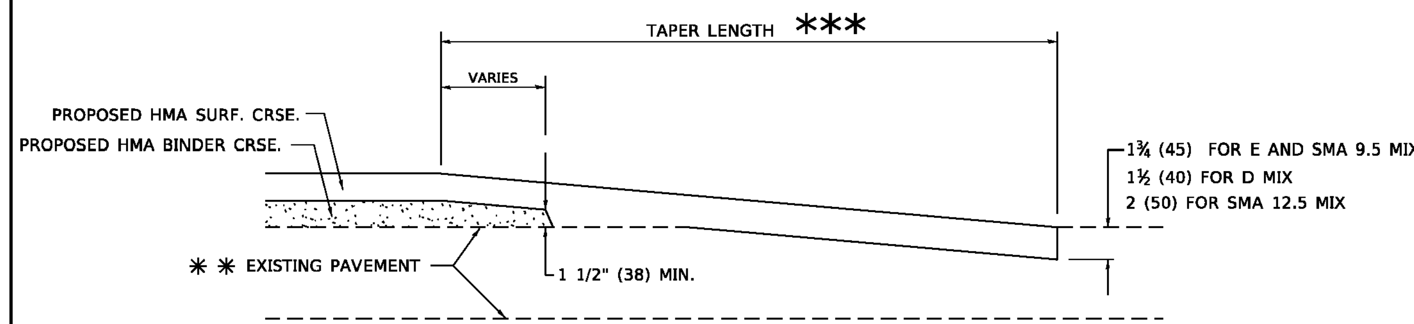


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	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	

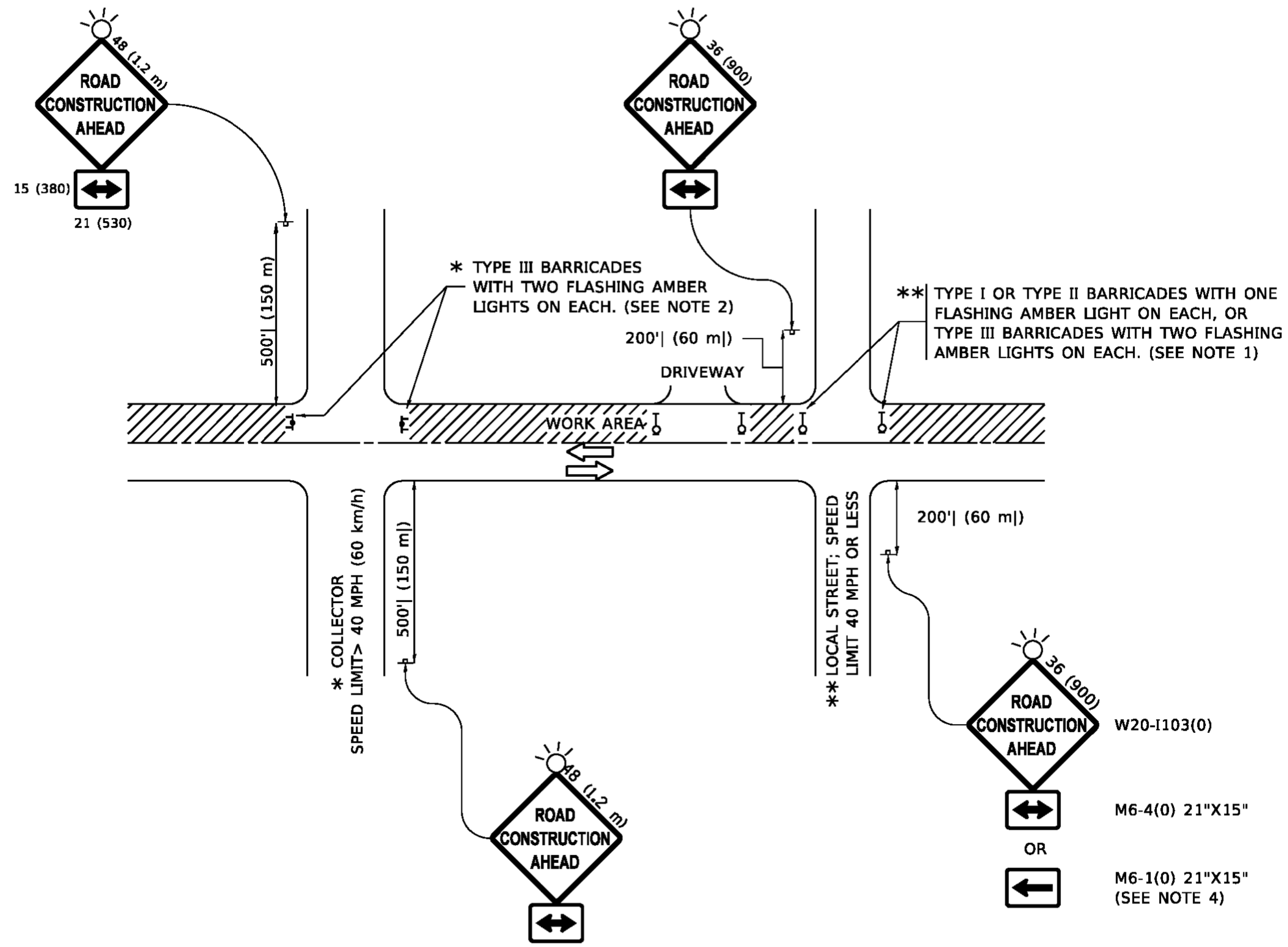
BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	54

BD400-05 BD-32 | CONTRACT NO. 61L07

ILLINOIS | FED. AID PROJECT



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: Default
FILE NAME: pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADSheets\tc10.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

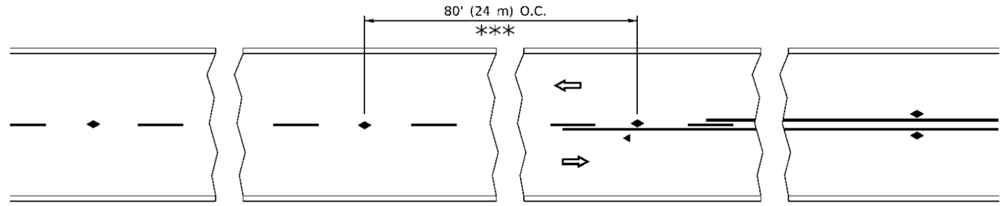
USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

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.

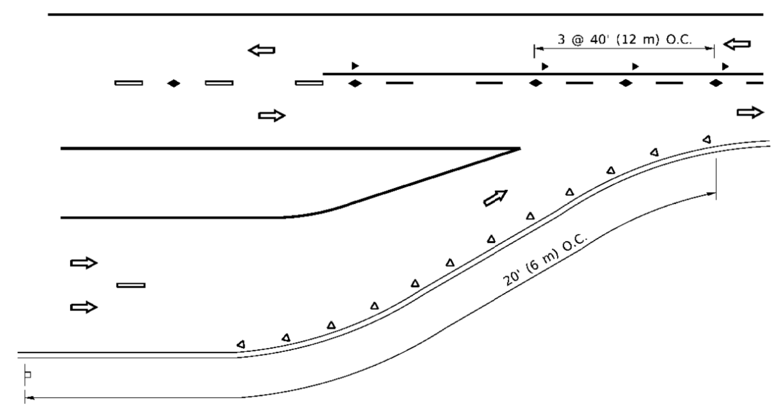
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	55
	TC-10	CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		



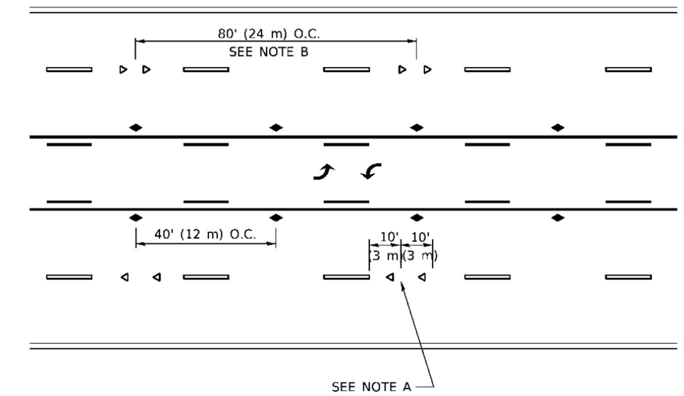
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

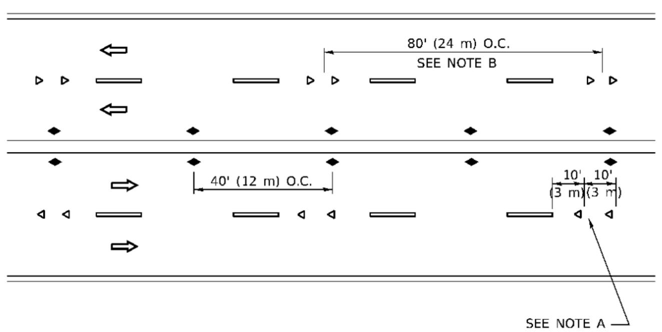
SEE FIGURE 3B-14 MUTCD



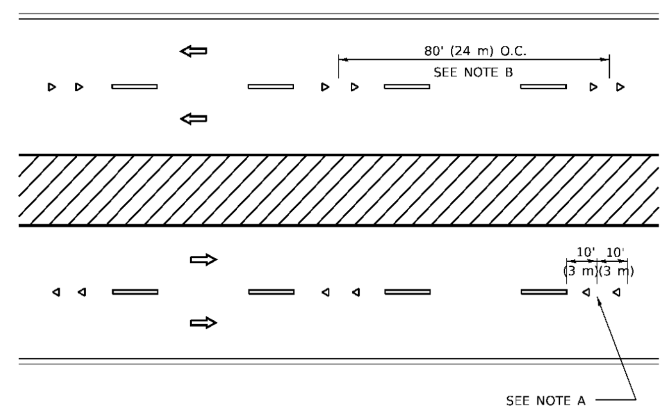
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

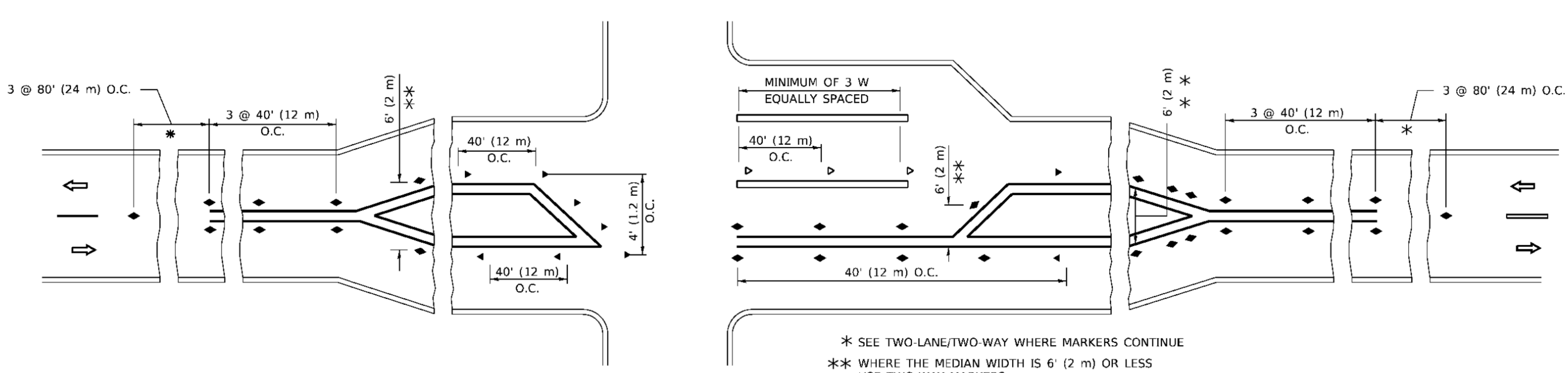
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\5tc22x34\CADData\CADsheets\tc11.dgn

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
		DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

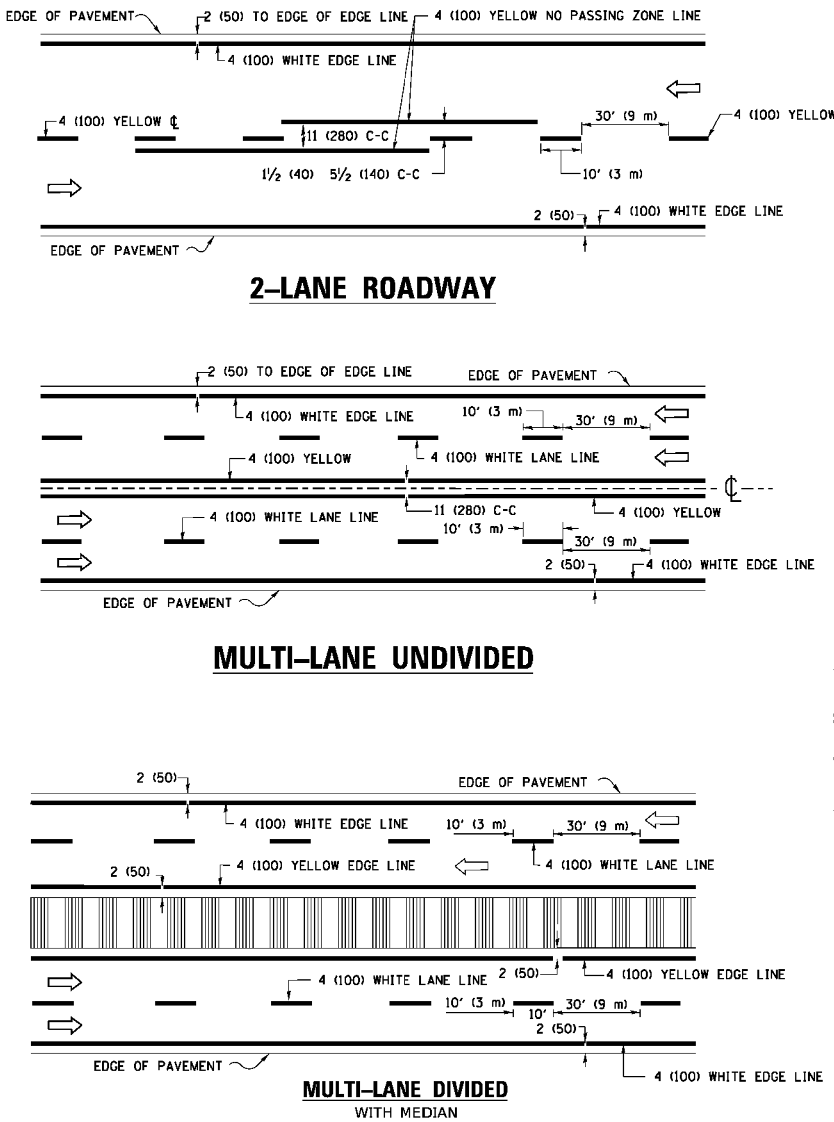
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

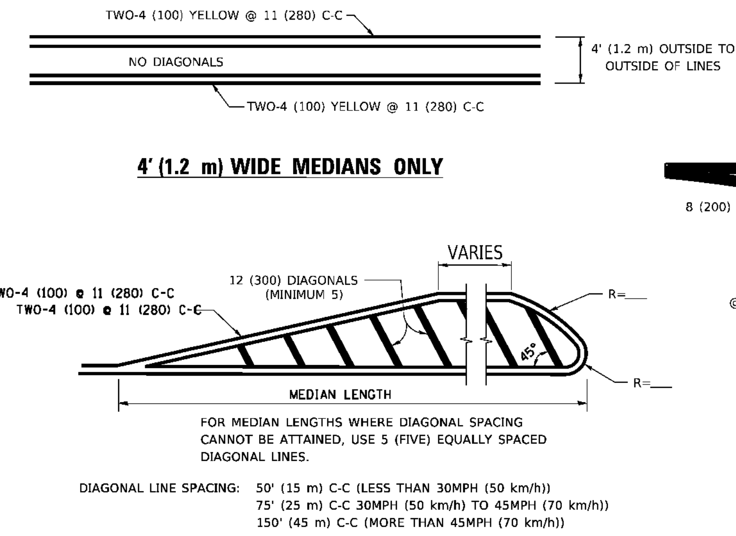
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

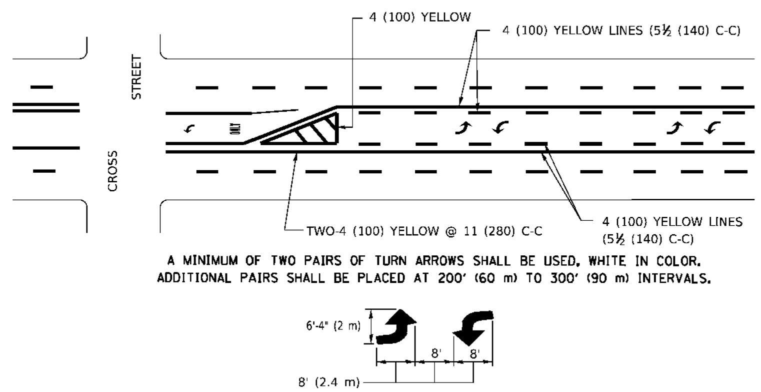
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	56
TC-11		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

TYPICAL LANE AND EDGE LINE MARKING

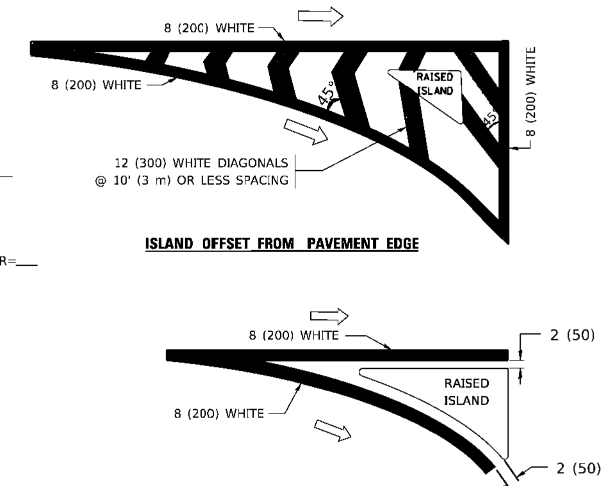


TYPICAL PAINTED MEDIAN MARKING

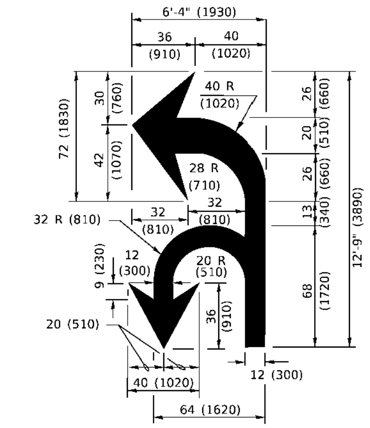




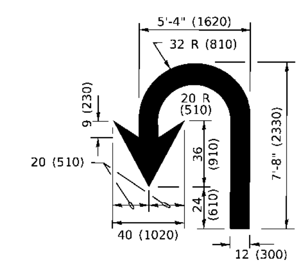
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN

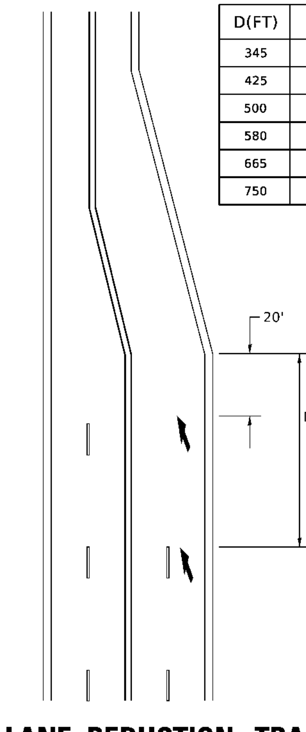


U-TURN



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

LANE REDUCTION TRANSITION



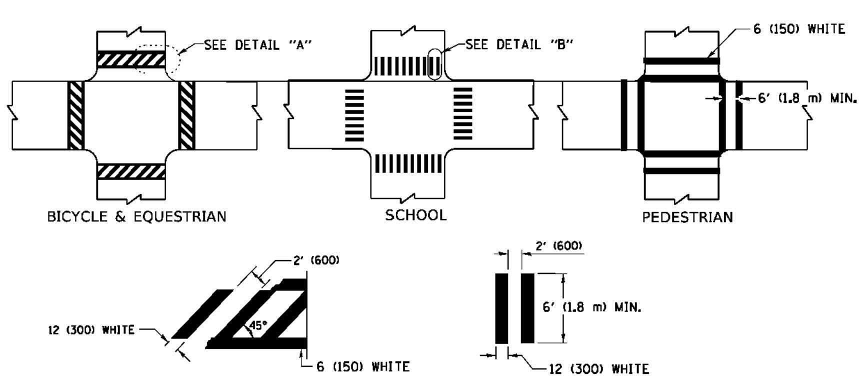
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

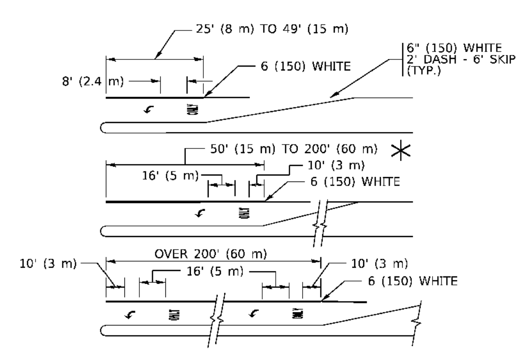
All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL CROSSWALK MARKING



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

TYPICAL TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

MODEL: Default
FILE NAME: pw:\\IL084EBIDINT.IL.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\d22\x34\CADData\CADSheets\tc13.dgn

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	57
TC-13		CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

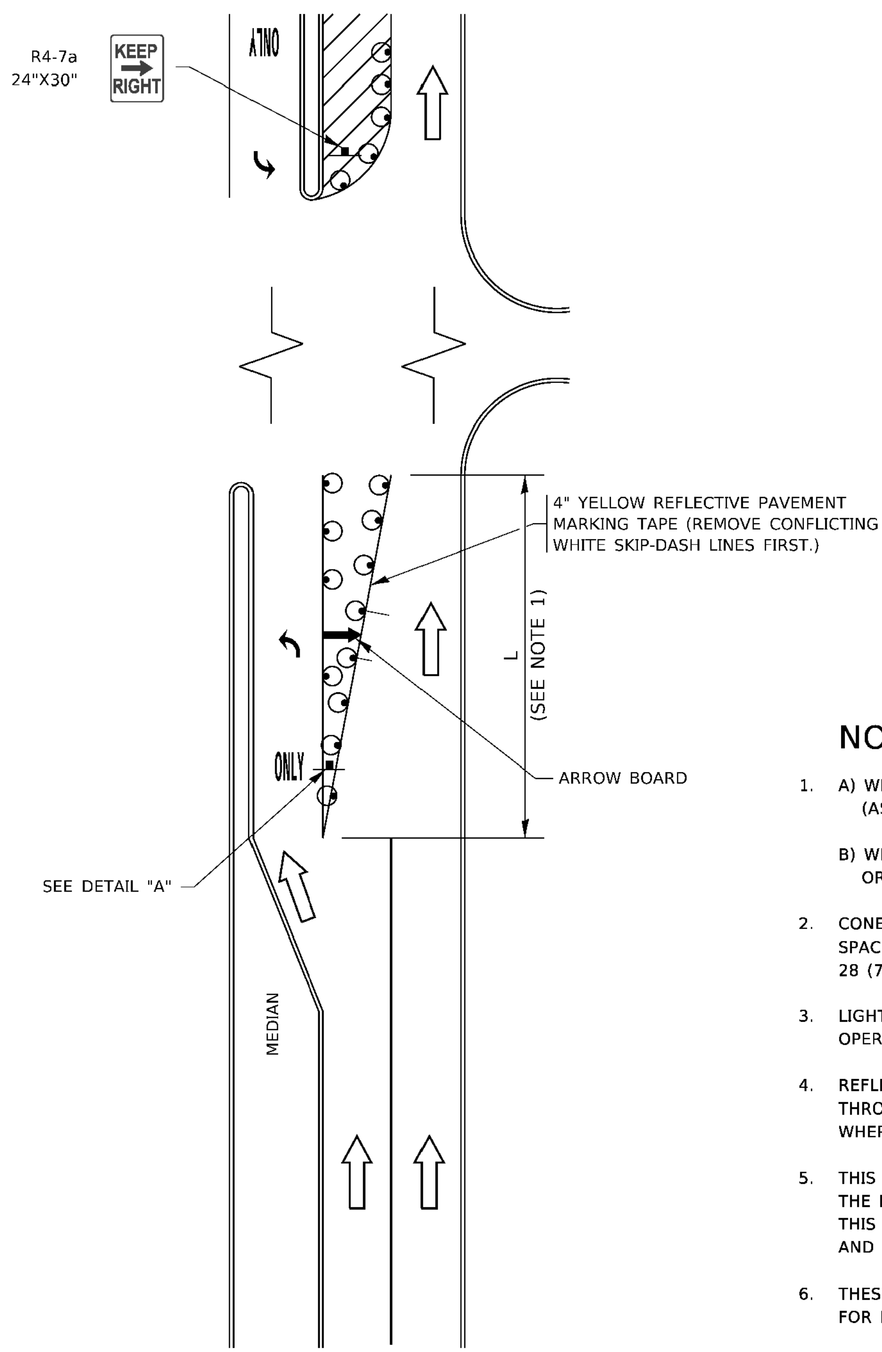


FIGURE 1

LEGEND

(hatched)	WORK AREA
(open arrow)	LANE OPEN TO TRAFFIC
(solid arrow)	ARROW BOARD
(barricade)	TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
(drum)	DRUM WITH STEADY BURN LIGHT
(sign)	SIGN ASSEMBLY
(check barricade)	TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

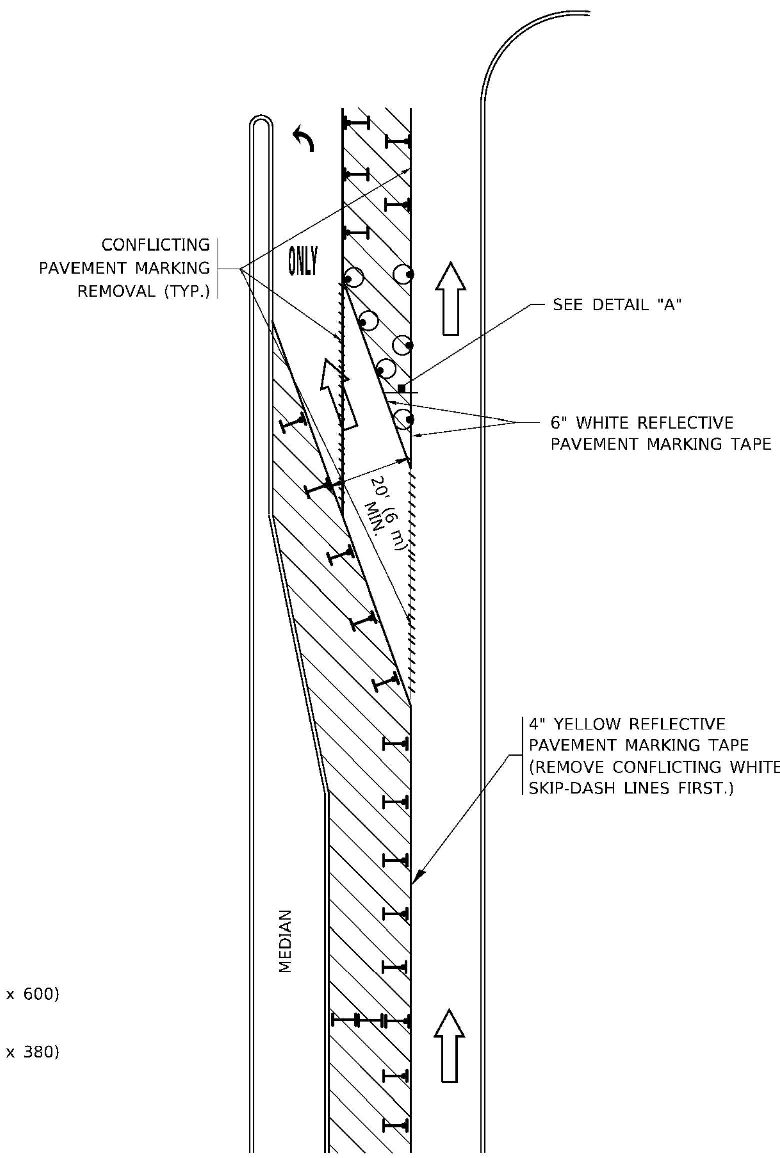
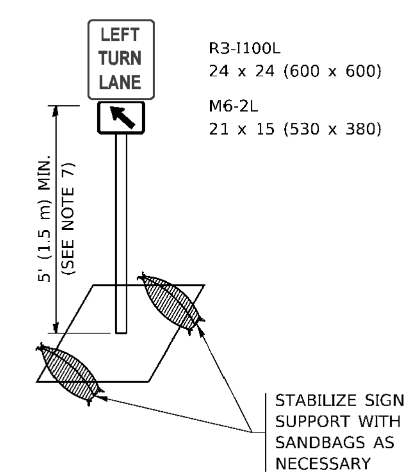


FIGURE 2



DETAIL A

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D-91-...\CADData\CADSheets\tc14.dgn

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
		DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
	PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
	PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

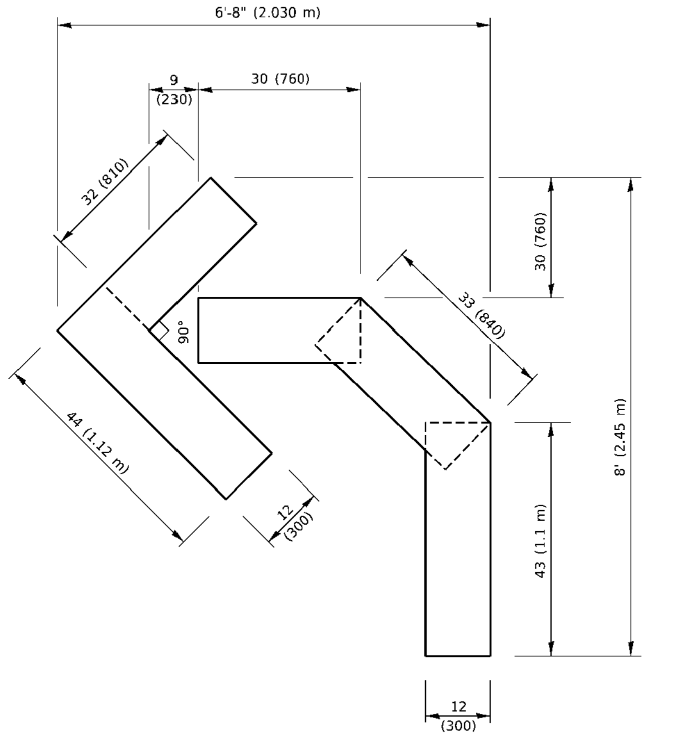
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	58

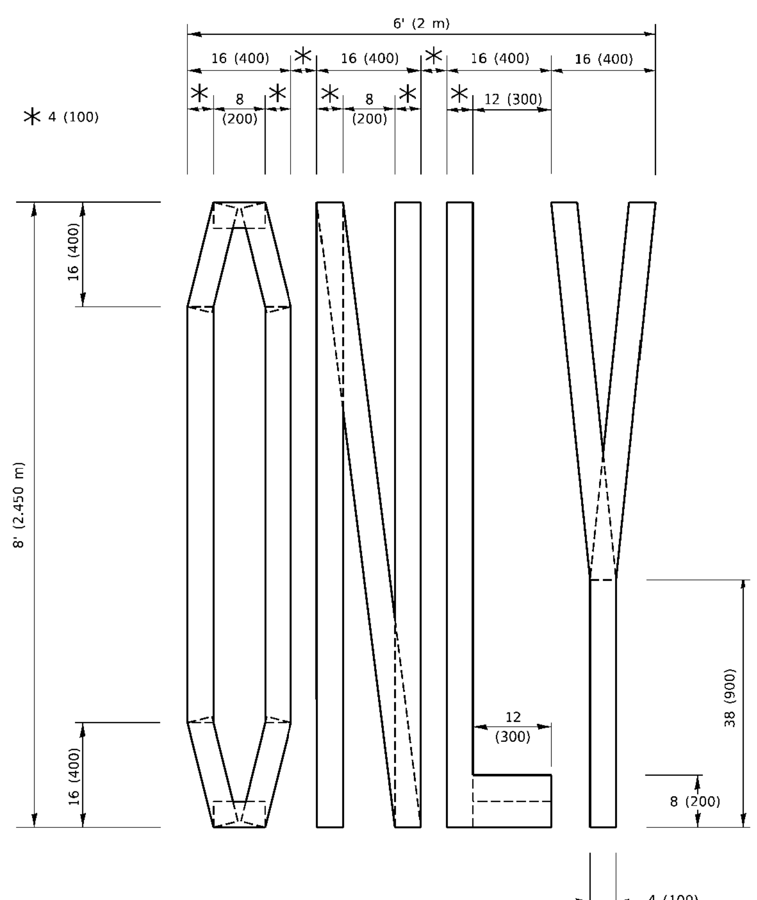
TC-14 | CONTRACT NO. 61L07

ILLINOIS | FED. AID PROJECT



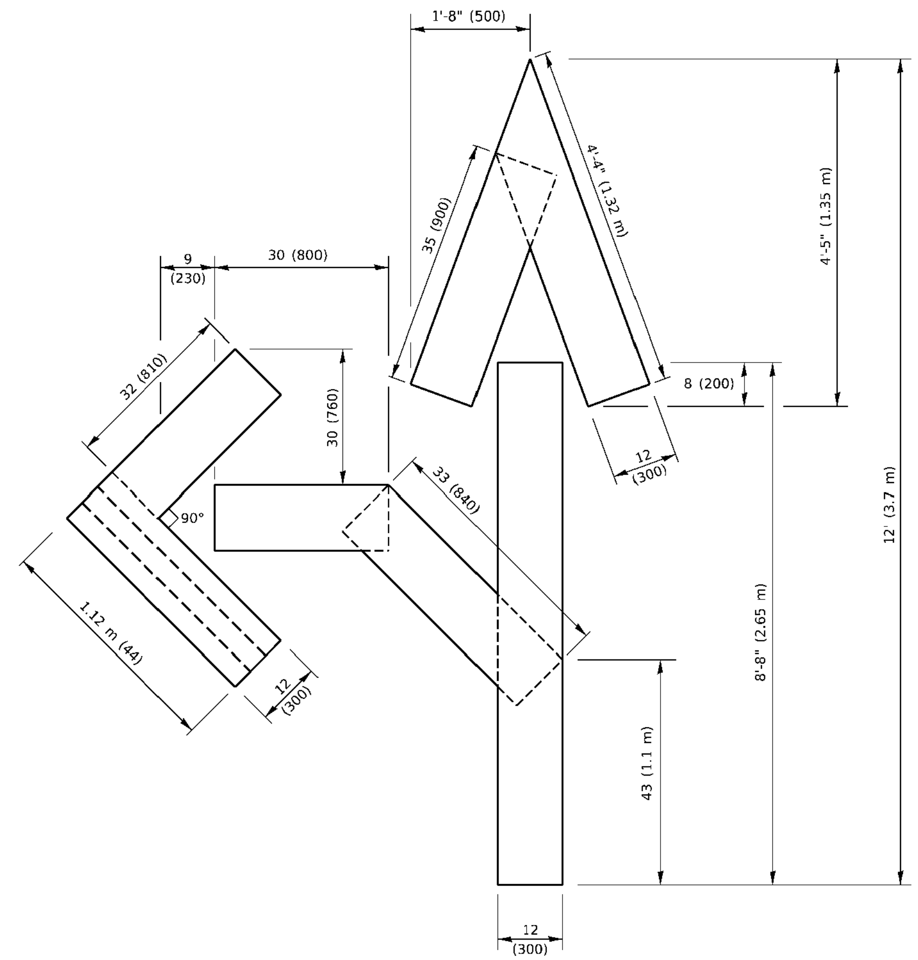
QUANTITY

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



QUANTITY

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

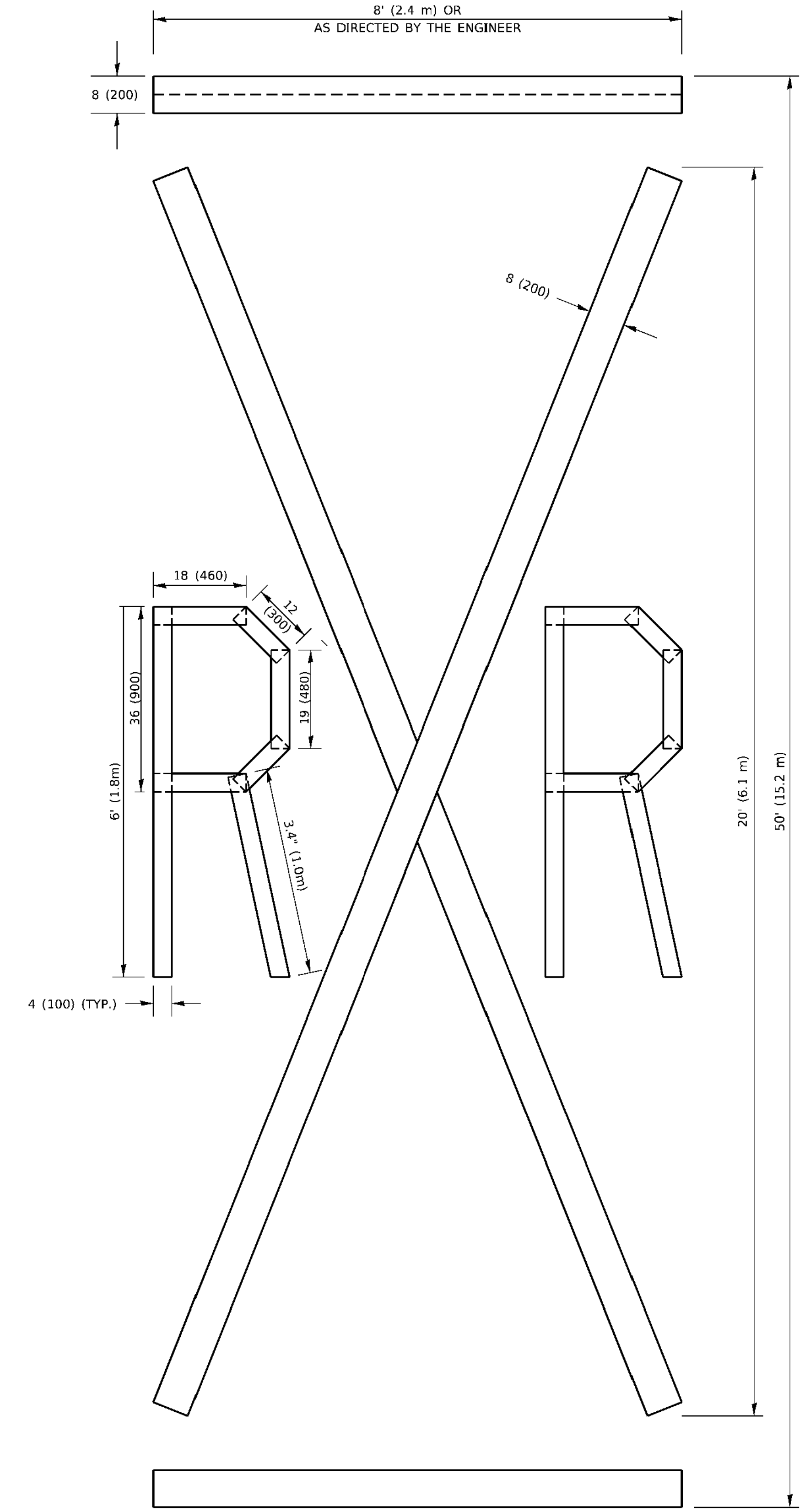


QUANTITY

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

NOTE:

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



QUANTITY

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

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\District 1\...\CADData\CADSheets\tc16.dgn

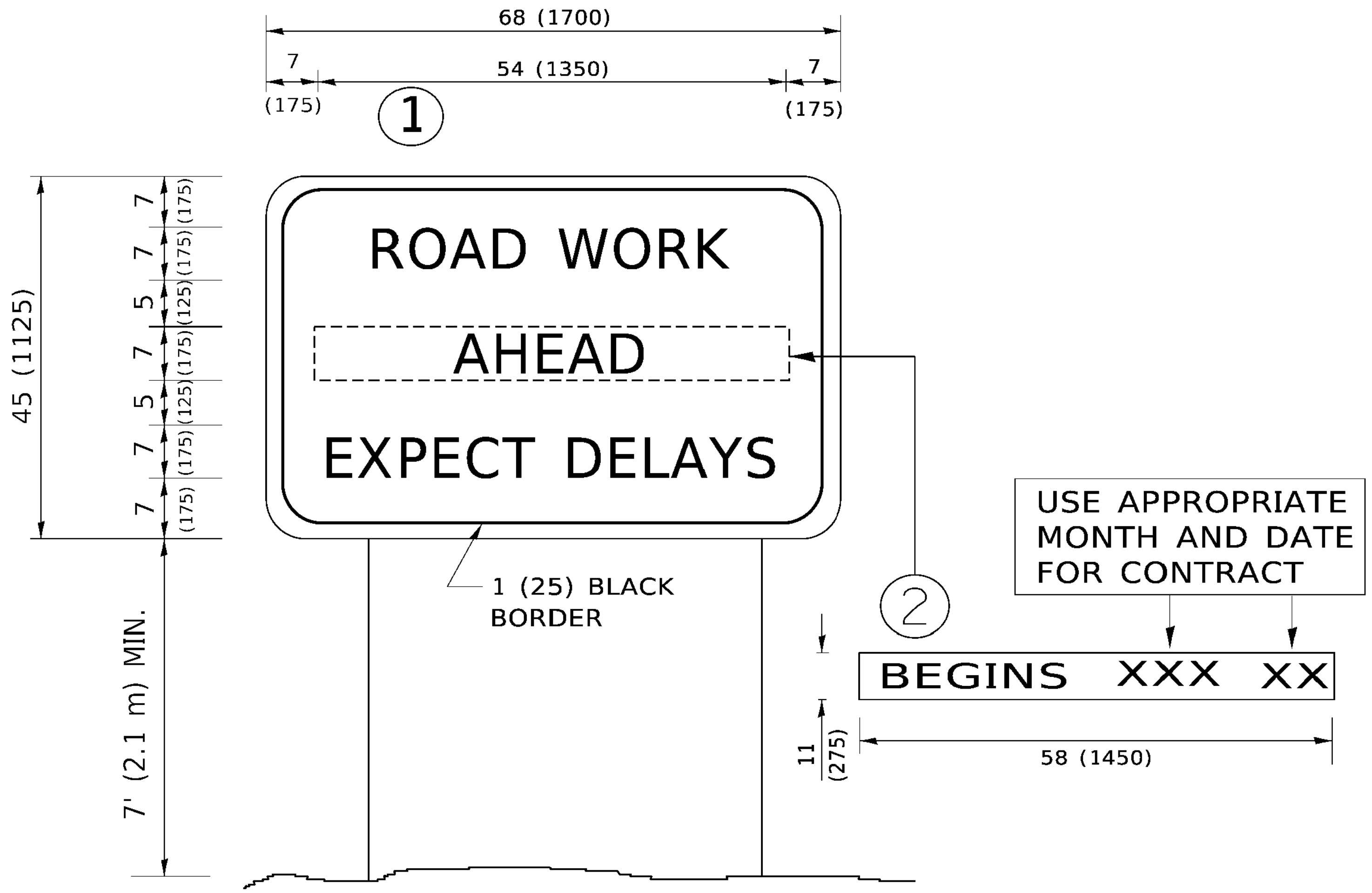
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
		DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	59
	TC-16	CONTRACT NO. 61L07		
	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D-91-172-16\CADData\CADSheets\tc22.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

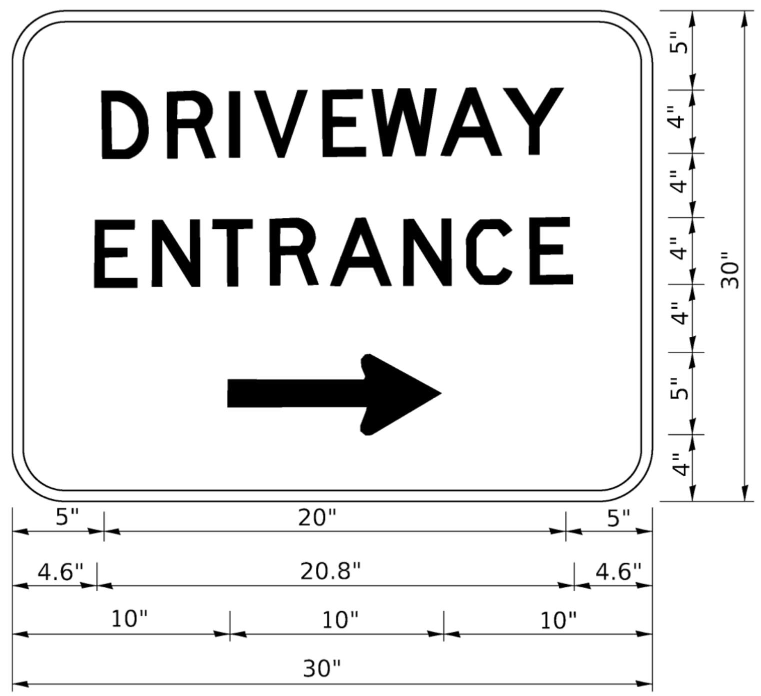
USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	60
	TC-22	CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			



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

NOTES:

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

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov … tc26.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

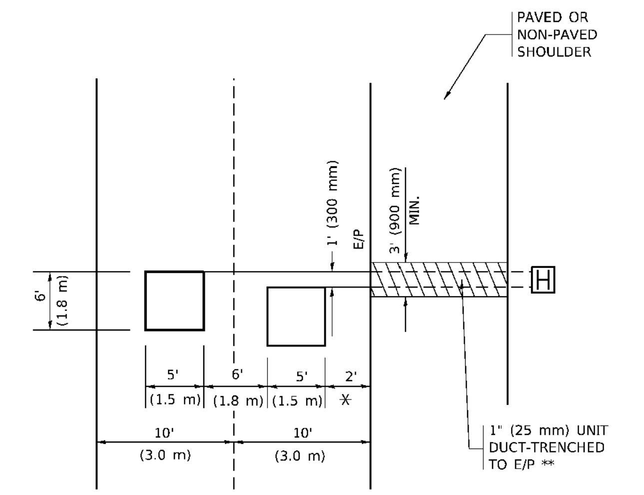
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	61

TC–26 | CONTRACT NO. 61L07

ILLINOIS | FED. AID PROJECT

LOOPS NEXT TO SHOULDERS

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



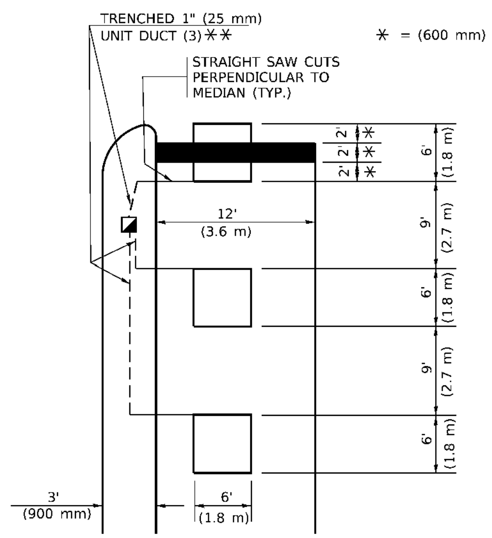
* = (600 mm)

** 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.

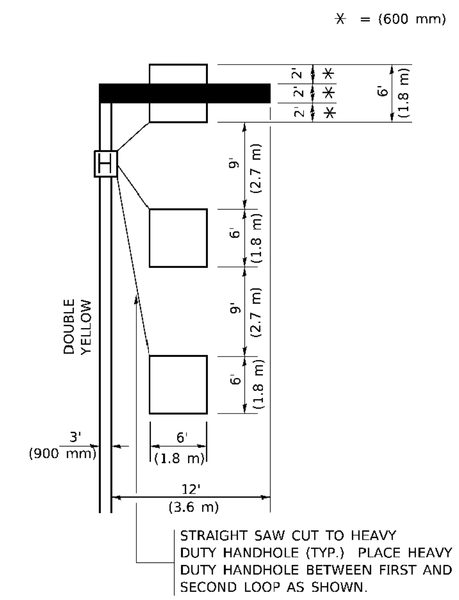


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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)



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 SEPARATLY. 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.

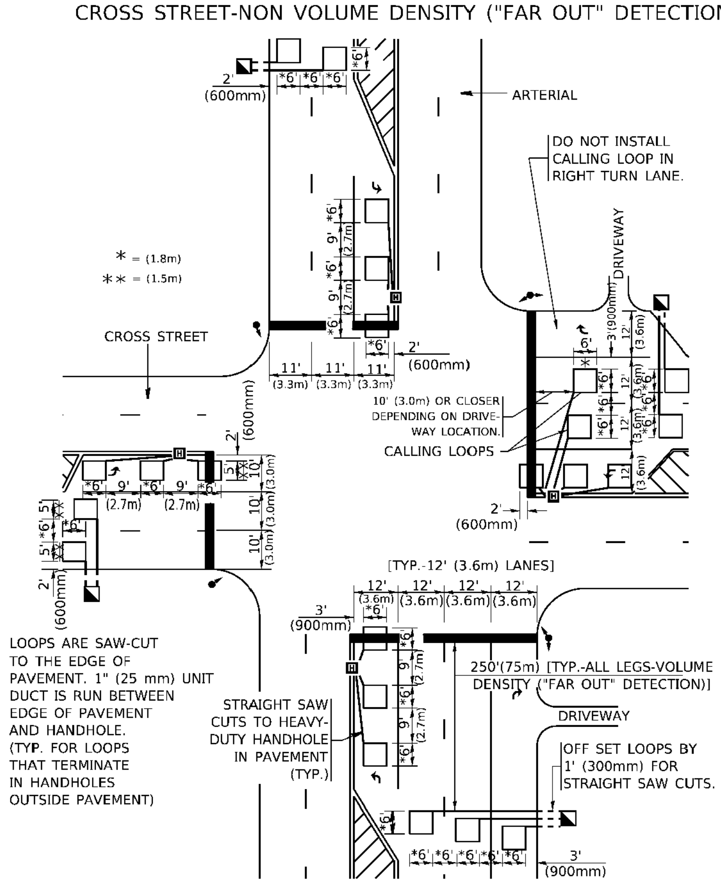
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

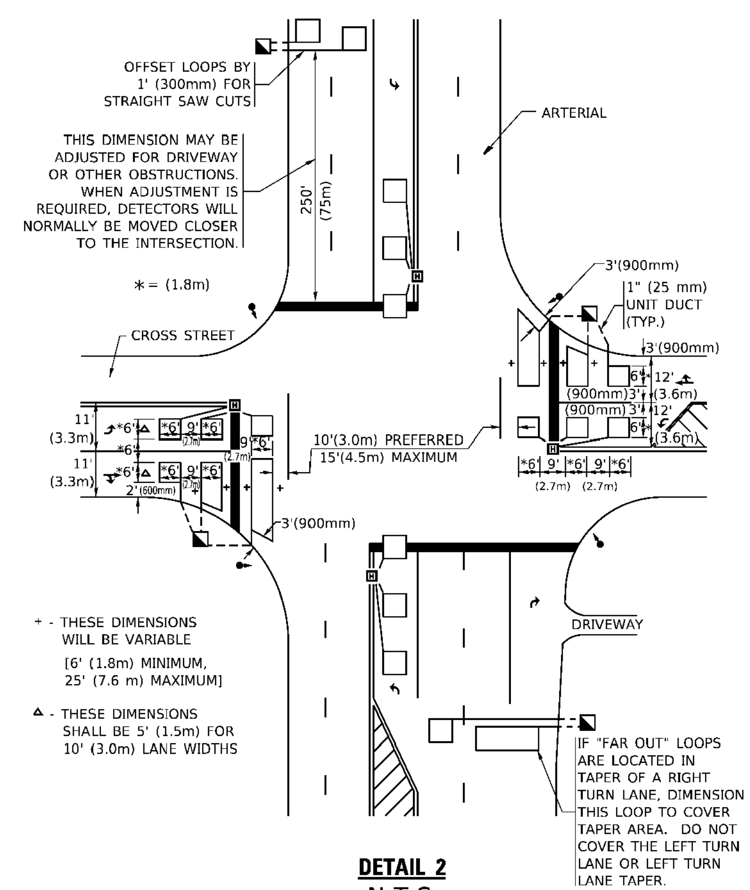
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1

N.T.S.

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



DETAIL 2

N.T.S.

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com

USER NAME = footemj | PLOT SCALE = 50.0000 ' / in. | PLOT DATE = 3/4/2019

DESIGNED - | DRAWN - | CHECKED - R.K.F. | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346	23-00080-00-RS	COOK	62	62
	TS-07	CONTRACT NO. 61L07		
	ILLINOIS FED. AID PROJECT			