

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	1
FED. ROAD DIST. NO	C-91-028-13	FED AID PROJECT #E-M-4003(086)		

CONTRACT NO. 63878

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY FAU 1284 (WEST LAKE AVENUE) AT FAU 2743 (GREENWOOD ROAD)

TRAFFIC SIGNAL AND INTERSECTION IMPROVEMENTS
SECTION 07-00164-02-RS
PROJ. #E-M-4003(086)
VILLAGE OF GLENVIEW
COOK COUNTY



TRAFFIC DATA

WEST LAKE AVENUE
POSTED SPEED = 35 MPH
DESIGN SPEED = 40 MPH
EXISTING ADT = 10,000 (2007)
PROPOSED ADT = 12,000 (2030)
URBAN COLLECTOR

GREENWOOD ROAD
POSTED SPEED = 35 MPH
DESIGN SPEED = 40 MPH
EXISTING ADT = 8,500 (2007)
PROPOSED ADT = 10,000 (2030)
URBAN COLLECTOR

WEST LAKE AVENUE
BEGIN OMISSION
STA 257 + 78

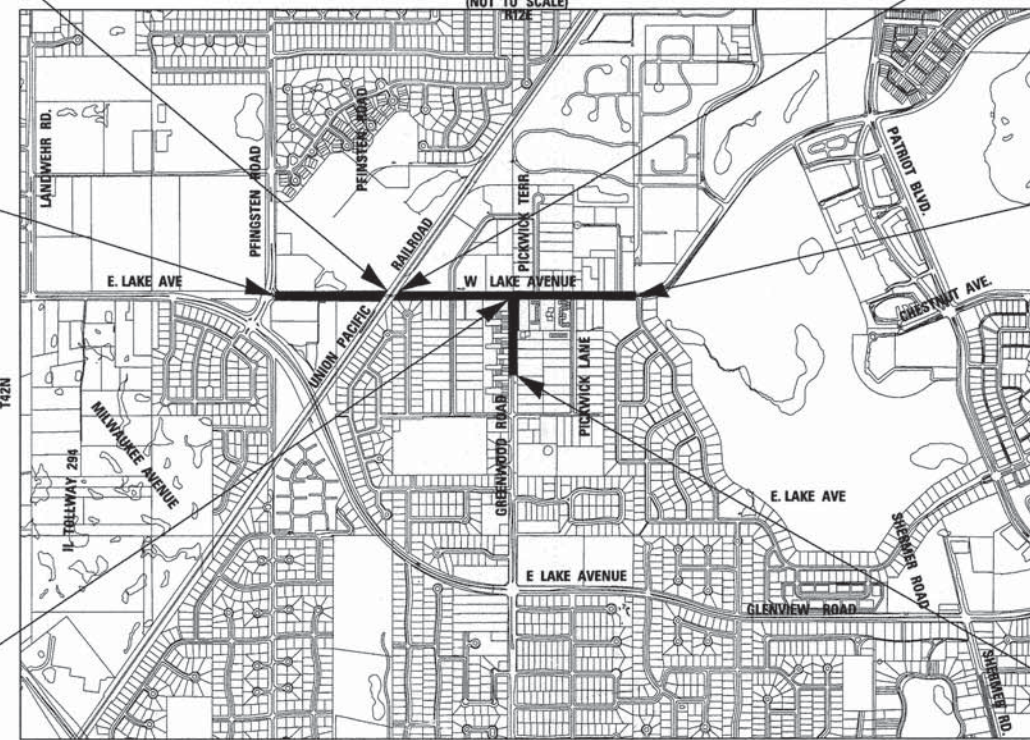
WEST LAKE AVENUE
END OMISSION
STA 258 + 22

WEST LAKE AVENUE
IMPROVEMENT BEGINS
STA. 245 + 08

WEST LAKE AVENUE
IMPROVEMENT ENDS
STA 282 + 20

GREENWOOD ROAD
IMPROVEMENT ENDS
STA. 25 + 32

GREENWOOD ROAD
IMPROVEMENT BEGINS
STA. 17 + 21



SECTION 28, T42N, R12E, OF THE THIRD PRINCIPAL MERIDIAN

NORTHFIELD TOWNSHIP
GROSS LENGTH OF IMPROVEMENT = 4,522 LF OR 0.856 MILES
NET LENGTH OF IMPROVEMENT = 4,478 LF OR 0.848 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED December 11, 2013
[Signature]
VILLAGE OF GLENVIEW

PASSED Dec 26, 2013
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW December 26, 2013
[Signature]
DEPUTY DIRECTOR OF
HIGHWAYS, REGION 1 ENGINEER

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VILLAGE OF GLENVIEW PROJECT #E05-41
B&W PROJECT NO.: 120011-34 DATE: 12-9-13

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

J.U.L.I.E. DESIGN STAGE REQUEST
DIG. No. A2350940



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:

COUNTY = COOK
CITY-TWNSHP. = GLENVIEW-NORTHFIELD
SEC. & 1/4 SEC. NO. = SEC 28
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 63878

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 EXPIRES 11/30/2015. PROJECT NO. 120011-34. DATE: 12-9-13.
 PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (647)705-4405 SCHAUMBURG, IL

BENCHMARKS

DATUM: NAVD88

- BM #1 SW FLANGE BOLT ON FIRE HYDRANT WEST OF DRIVEWAY FOR 3633 WEST LAKE AVE EL 674.45
- BM #2 NW BONNET BOLT ON FIRE HYDRANT AT DRIVE TO ADDRESS 1746 GREENWOOD RD EL 664.65

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-02	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET TYPE A
602401-03	MANHOLE TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604056-03	FRAME AND GRATE TYPE 11V
604091-02	FRAME AND GRATE TYPE 24
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

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LIGHT POLE RELOCATION NOTES

- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING CONDUITS, DETECTORS AND EQUIPMENT. IF ANY OF THE CONDUIT AND/OR EQUIPMENT IS DAMAGED THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE COUNTY OR THE VILLAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK MUST BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES ARE PERMITTED. ELECTRIC HANDHOLES ARE FOR THE PURPOSE OF PULLING CABLES ONLY.
- LIGHTING UNIT SHALL BE SETBACK 3 FEET FROM FACE OF CURB TO CENTER OF POLE FOUNDATION.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED.

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 DRAWN BY: CAC, CHECKED BY: TLH, DATE: 12/9/13
 1284/2743



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-GenNotes.shp

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX TO SHEETS, HIGHWAY STANDARDS,
LIGHT POLE RELOCATION NOTES,
BENCHMARKS AND COMMITMENTS

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	2
	C-91-028-13			CONTRACT NO. 63878

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT# 40030861

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", THE "OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION" (OSHA) REQUIREMENTS, THE IDOT AND VILLAGE OF GLENVIEW STANDARD DETAILS IN THE PLANS, THE IDOT AND VILLAGE OF GLENVIEW SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND VILLAGE OF GLENVIEW ENGINEERING STANDARDS, LATEST EDITION.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
- THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED; THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY. A DEPOSIT IS REQUIRED FOR A WATER METER.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY BUSINESSES AND THE ENGINEER WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES. THE CONTRACTOR SHALL PROVIDE AT LEAST 72 HOURS NOTICE TO BUSINESSES BEFORE CLOSING DRIVEWAYS.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ACCESS TO DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL AS TEMPORARY ACCESS.
- EXISTING PAVEMENT, DRIVEWAY PAVEMENT, CURB AND GUTTER AND SIDEWALK TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF THE APPROPRIATE REMOVAL PAY ITEM.
- CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS AND SIDEWALK RAMPS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS. SIDEWALK RAMPS FOR ACCESS FOR THE DISABLED SHALL BE PROVIDED AT THE PROPOSED CROSSWALKS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
- PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 8-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES COMMERCIAL DRIVEWAYS.
- A 1/2-INCH THICK EXPANSION JOINT SHALL BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY APRON AND CURB, AND AT THE JUNCTION OF THE DRIVEWAY APRON AND THE SIDEWALK. THIS WORK WILL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT.
- CONNECTION OF PROPOSED STORM SEWER INTO EXISTING STORM SEWER OR EXISTING STORM SEWER STRUCTURES SHALL BE INCLUDED IN THE COST OF STORM SEWERS UNLESS OTHERWISE NOTED ON THE PLANS.
- CONNECTION OF EXISTING STORM SEWER INTO PROPOSED STORM SEWER STRUCTURES SHALL BE INCLUDED IN THE COST OF THE STORM SEWER STRUCTURE. ANY ADDITIONAL STORM SEWER PIPE REQUIRED TO MAKE THE CONNECTION SHALL BE OF THE SAME SIZE AND MATERIAL TYPE AS THE EXISTING STORM SEWER AND SHALL BE INCLUDED IN THE COST OF THE STORM SEWER STRUCTURE.
- IF ANY STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.
- STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
- ALL CRACKS AND JOINTS SHALL BE CLEANED PRIOR TO FILLING THEM. THIS WORK SHALL BE INCLUDED IN THE ITEM "MIXTURE FOR CRACKS, JOINTS AND FLANGWAYS."
- DETECTABLE WARNINGS SHALL BE CONSTRUCTED WITH THE INSTALLATION OF A REPLACEABLE CAST-IN-PLACE POLYMER COMPOSITE PANEL, 24"x48" NOMINAL PANEL WIDTH. THE PANEL SHALL COMPLY WITH ADA REQUIREMENTS. THE DOMES LOCATED ON THE PANEL SHALL PARALLEL THE PAVEMENT CROSS WALK WITH THE CLOSEST EDGE LOCATED AT THE BACK OF CURB. THE PANEL COLOR SHALL BE BRICK RED UNLESS OTHERWISE APPROVED BY THE ENGINEER. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- PIPE UNDERDRAIN CONSTRUCTION AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL INCLUDE EXCAVATION; CONNECTIONS TO EXISTING OR PROPOSED STORM PIPES, DRAINAGE STRUCTURES, OR PIPE DRAINS; GEOTECHNICAL FABRIC SOCK; AND CA-7 AND FA 6 TRENCH BACKFILL TO THE BOTTOM OF THE HOT-MIX ASPHALT OR PCC BASE COURSE.
- INLINE CONNECTIONS OF PROPOSED STORM SEWER TO EXISTING STORM SEWER TO REMAIN SHALL BE MADE WITH A NON-SHEAR "BAND-SEAL" FLEXIBLE TYPE COUPLING. THIS WORK SHALL BE INCLUDED IN THE PROPOSED STORM SEWER.

- PER VILLAGE OF GLENVIEW ORDINANCE, THE CONTRACTOR SHALL BE REQUIRED TO CONFINE THE WORK ACTIVITY BETWEEN 7:00 AM-7:00 PM MONDAY THROUGH FRIDAY, 9:00 AM-5:00 PM SATURDAYS. WORK ON SATURDAYS SHALL BE COORDINATED AND APPROVED IN WRITING BY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE. NO WORK WILL BE PERMITTED ON HOLIDAYS WITHOUT THE ENGINEER'S WRITTEN APPROVAL. WORK ACTIVITY, AS INTENDED HEREIN, INCLUDES WARMING/STARTING UP/IDLING OF ANY MACHINERY OR ENGINES. SEE TRAFFIC CONTROL NOTES FOR ALLOWED LANE CLOSURE REQUIREMENTS.
- ALL SAW CUTTING REQUIRED TO COMPLETE THE PROPOSED UTILITY WORK SHALL BE INCLUDED IN THE COST OF PROPOSED UTILITY WORK.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATION OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE AND SANITARY STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS.
- THE MWRD LOCAL SEWER SYSTEM SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK ON MWRD FACILITIES, INCLUDING MANHOLES AND PIPES (CALL 708-588-4055). SEE THE MWRD NOTES FOR OTHER INFORMATION.
- VILLAGE OF GLENVIEW PUBLIC WORKS DEPARTMENT (847) 657-3030
VILLAGE OF GLENVIEW CAPITAL PROJECTS DEPARTMENT (847) 904-4400
- ONLY VILLAGE OF GLENVIEW PUBLIC WORKS DEPARTMENT STAFF SHALL OPERATE WATER VALVES. COORDINATE SHUTDOWNS WITH THE ENGINEER. SEE WATER MAIN GENERAL NOTES FOR OTHER INFORMATION.
- CLASS B STORM SEWER SHALL BE PVC SDR 26 OR APPROVED EQUAL MEETING ARTICLE 1040.03(a) OF THE STANDARD SPECIFICATIONS.
- AGGREGATE BASE COURSE, TYPE B - 4" SHALL BE INSTALLED UNDER ALL DRIVEWAY PAVEMENTS CONSTRUCTED ACCORDING TO IDOT DISTRICT ONE DETAIL BD-01. THE AGGREGATE BASE COURSE, TYPE B - 4" WILL BE PAID FOR SEPARATELY.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA FIELD TRAFFIC ENGINEER AT 847-715-8419 AT LEAST 2 WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL NOTIFY THE IDOT TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- TRENCH BACKFILL FOR THIS PROJECT SHALL CONSIST OF CRUSHED CA-7 AND FA 6, CAPPED WITH 12" OF CRUSHED CA-6 AS SHOWN IN DETAILS SHALL BE COMPACTED BY METHOD 1 ONLY, UNLESS OTHERWISE ALLOWED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE LOCATION OF ALL SERVICE CONNECTIONS FOR SANITARY SEWER, STORM SEWER AND WATER SHALL BE SHOWN FROM THE CLOSEST MANHOLE OR VALVE VAULT. ALL FITTINGS, BENDS, VALVES, B-BOXES AND CLEANOUTS MUST BE SHOWN WITH TIED DIMENSIONS. THE ELEVATION OF ALL RIMS, INVERTS AND PIPE SLOPES SHALL BE VERIFIED BY THE CONTRACTOR AND SHOWN ON THE "RECORD DRAWINGS". THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT, PRIOR TO FINAL INSPECTION. THIS WORK SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.
- ANY COST ASSOCIATED WITH TRENCH DEWATERING IS INCLUDED IN STORM SEWER PIPE AND/OR STRUCTURE CONSTRUCTION COST
- THE CONTRACTOR SHALL OBTAIN AND PROVIDE THE VILLAGE WITH A COPY OF RAILROAD PROTECTIVE LIABILITY INSURANCE. ALL WORK TO BE DONE BY THE CONTRACTOR ON THE RAILROADS RIGHT-OF-WAY SHALL BE PERFORMED IN A MANNER SATISFACTORY TO THE RAILROAD ENGINEER.
- CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A WAY AS TO MINIMIZE DUST SPREADING ONTO ADJACENT PROPERTIES. WHEN REQUESTED BY THE ENGINEER WATER TRUCKS OR OTHER APPROVED DUST CONTROL METHODS SHALL BE USED FOR WATERING DUST-GENERATING AREAS. THE COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCLUDED IN THE COST PAVEMENT REMOVAL.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE UNION PACIFIC RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMAN EMPLOYED AND DESIGNATED BY THE UNION PACIFIC RAILROAD TO MONITOR ON-GOING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM SHALL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
- NO OPEN TRENCH OR PIT SHALL REMAIN UNPROTECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BACKFILL THE TRENCH AND/OR PIT OR ERECT A STABLE AND SECURE SIX (6) FOOT HIGH CHAIN LINK FENCE AROUND THE PERIMETER OF EXCAVATION, ALONG WITH A STEEL PLATE OVER THE EXCAVATION TO PREVENT ANY ACCESS TO THE EXCAVATION WITHOUT THE CONTRACTOR'S PERMISSION. ALL EXCESS EXCAVATED MATERIAL AND DELIVERED MATERIAL FROM THE INSTALLATION OF UTILITIES AND/OR ROAD SHALL BE REMOVED AND DISPOSED OF OFF-SITE THE SAME DAY. CONTRACTOR IS NOT ALLOWED TO STOCKPILE MORE THAN 5 CUBIC YARDS OF MATERIAL OVERNIGHT. IF ANY MATERIAL STOCKPILES WILL REMAIN OVERNIGHT HIGHER THAN TWO (2) FEET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ERECT A STABLE AND SECURE SIX (6) FOOT HIGH CHAIN LINK FENCE AROUND THE PERIMETER OF THE STOCKPILED MATERIAL. THESE FENCES SHALL BE INSTALLED AND GATE/S LOCKED AT ALL TIMES EXCEPT WHEN ACCESS BY THE CONTRACTOR IS REQUIRED. THE COST ASSOCIATED WITH THE JOB-SITE SAFETY, TRENCH/PIT AND STOCKPILE PROTECTION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- THE CONTRACTOR SHALL MAINTAIN AND KEEP IN OPERATION ALL EXISTING UTILITIES, SEWERS, AND APPURTENANCES. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

- ANY SIGNS OR MAILBOXES THAT ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH VILLAGE STANDARDS AND INCLUDED IN THE PAY ITEM FOR PAVEMENT REMOVAL. MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- EXISTING WOOD PEDESTRIAN FOOT BRIDGE AT STA 277+40, RT SHALL BE REMOVED AT THE TIME OF CONSTRUCTION AND SHALL BE RETURNED TO THE PROPERTY OWNER. THIS WORK SHALL BE PAID FOR AS WOOD BRIDGE TO BE REMOVED AND REINSTALLED.
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
- THE CONTRACTOR CAN VIEW THE GEOTECHNICAL REPORT IN THE BACK OF THE SPECIAL PROVISIONS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, FIBER OPTICS, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD AT THE JOB SITE PRIOR TO ORDERING MATERIALS AND COMMENCEMENT OF CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK; OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIALS PROVISIONS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE MEANING OF THE CONSTRUCTION PLANS AND/OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE UTILITY OWNER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH IMPACTED UTILITY OWNERS OF HIS CONSTRUCTION SCHEDULE.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATION OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- ALL REQUIRED CONSTRUCTION STAKING (BENCHMARK ESTABLISHMENT, ROW, BIKE TRAIL AND STORM SEWER LOCATION AND ELEVATIONS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DIMENSIONS AND ELEVATIONS MEASURED FROM CONTRACTOR'S STAKES. THE CONTRACTOR SHALL EXERCISE PROPER CARE IN THEIR PRESERVATION OF STAKES SET UNTIL THE ENGINEER'S APPROVAL FOR STAKE REMOVAL IS OBTAINED.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS BUILT" RECORD DRAWINGS INDICATING THE EXACT LOCATION OF STRUCTURES (RIM, INVERT ELEVATION), PIPES (DIAMETER, SLOPE, ETC), SERVICE CONNECTION, EVERY FITTING, VALVE, BEND, ETC. RECORD DRAWING MUST INCLUDE INFORMATION ABOUT THE EXISTING UTILITIES DISCOVERED DURING THE CONSTRUCTION. THIS SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.
- INITIAL HORIZONTAL LAYOUT MAY BE REQUESTED BY THE ENGINEER TO VERIFY FIELD LOCATIONS. HORIZONTAL LAYOUT MAY BE ADJUSTED BY THE ENGINEER DURING CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.
- ALL TREE PROTECTION (TEMPORARY FENCE INSTALLATION), TREE REMOVAL, TREE PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA, AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- TREE REMOVAL NOTICES WILL BE POSTED BY THE VILLAGE ON THE TREES TO BE REMOVED. TREE REMOVAL WORK WILL BE ALLOWED TEN (10) DAYS AFTER POSTING OF THE TREE REMOVAL NOTICE.
- ALL CLEARING, TRIMMING AND REMOVAL OF TREES UNDER SIX (6) INCH IN DIAMETER SHALL BE INCLUDED IN THE COST OF "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL".
- ALL TREES, STUMPS, LIMBS, BRANCHES, SHRUBS AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY (ROW).
- ANY COST ASSOCIATED WITH TRENCH DEWATERING IS INCLUDED IN STORM SEWER PIPE AND/OR STRUCTURE CONSTRUCTION COST.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE

GENERAL NOTES

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-R5	COOK	87	3
	C-91-028-13			CONTRACT NO. 63878
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT # 40030861				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY	STP SAFETY	ITEP PEDESTRIAN
				0004	0021	0028
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	296			296
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	609	242		367
20101000	TEMPORARY FENCE	FOOT	1,760	1,226		534
20101100	TREE TRUNK PROTECTION	EACH	45	5		40
20101200	TREE ROOT PRUNING	EACH	38	4		34
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	19	2		17
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	19	2		17
20200100	EARTH EXCAVATION	CU YD	5,107	4,302		805
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,945	2,433		1,512
20800150	TRENCH BACKFILL	CU YD	1,495	740		755
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,063	3,063		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10,735	6,473		4,262
25000312	SEEDING, CLASS 4A	ACRE	1			1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	290	241		49
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	290	241		49
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	290	241		49
25100630	EROSION CONTROL BLANKET	SQ YD	2,950			2,950
25200100	SODDING	SQ YD	7,785	6,473		1,312
25200200	SUPPLEMENTAL WATERING	UNIT	55	15		40
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	223	134		89
28000305	TEMPORARY DITCH CHECKS	FOOT	95	30		65
28000400	PERIMETER EROSION BARRIER	FOOT	1,232			1,232
28000510	INLET FILTERS	EACH	84	63		21
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,021	1,021		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	10,164	10,164		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	4,621			4,621
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	31	31		
35501305	HOT-MIX ASPHALT BASE COURSE, 5 1/4"	SQ YD	674	674		
35501306	HOT-MIX ASPHALT BASE COURSE, 5 1/2"	SQ YD	5,646	5,646		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	326			326
35501314	HOT-MIX ASPHALT BASE COURSE, 7 1/2"	SQ YD	709	709		
35501315	HOT-MIX ASPHALT BASE COURSE, 7 3/4"	SQ YD	159	159		

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	4
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(086)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY	STP SAFETY	ITEP PEDESTRIAN
				0004	0021	0028
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	1,736	1,409		327
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SQ YD	181	181		
35600707	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4"	SQ YD	262	262		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,371	5,371		
40600300	AGGREGATE (PRIME COAT)	TON	57	57		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2		
40600895	CONSTRUCTING TEST STRIP	EACH	2	2		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	48	48		
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	798	798		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	231	193		38
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1,270	1,270		
42001300	PROTECTIVE COAT	SQ YD	4,000	1,000		3,000
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	270	270		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	275	210		65
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	33,986			33,986
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	630			630
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	2,618			2,618
42400800	DETECTABLE WARNINGS	SQ FT	304	90		214
44000100	PAVEMENT REMOVAL	SQ YD	4,300	4,300		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	3,962	3,962		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,607	1,889		718
44000300	CURB REMOVAL	FOOT	442	442		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,204	1,009		195
44000600	SIDEWALK REMOVAL	SQ FT	12,415	4,415		8,000
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	39	39		
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	634	408		226
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	488	488		
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	2		2
50105220	PIPE CULVERT REMOVAL	FOOT	583	464		119
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	220	220		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1		

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-R5	COOK	87	5
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(086)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY	STP SAFETY	ITEP PEDESTRIAN
				0004	0021	0028
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	12	12		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2			2
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	40			40
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	845	377		468
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	766	766		
55100500	STORM SEWER REMOVAL 12"	FOOT	56	56		
55100700	STORM SEWER REMOVAL 15"	FOOT	173	150		23
* 56106500	ADJUSTING WATER MAIN, 10"	FOOT	20	20		
* 56106600	ADJUSTING WATER MAIN, 12"	FOOT	100	40		60
* 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	2	1		1
* 56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	4	1		3
* 56500300	DOMESTIC METER VAULTS TO BE ADJUSTED	EACH	2			2
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1			1
60107600	PIPE UNDERDRAINS 4"	FOOT	300	300		
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3			3
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	1		2
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	22	22		
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	4	3		1
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	15	13		2
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1		
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	4	1		3
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	4	4		
* 60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2		
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1		
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	2	2		
60255500	MANHOLES TO BE ADJUSTED	EACH	9	9		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	6
	C-91-028-13		CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT N-40030861				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY 0004	STP SAFETY 0021	ITEP PEDESTRIAN 0028
				60255700	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2			2
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1			1
60260100	INLETS TO BE ADJUSTED	EACH	2	2		
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2		
* 60265700	VALVE VAULTS TO BE ADJUSTED	EACH	12	4		8
* 60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3		
* 60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	2	2		
60500040	REMOVING MANHOLES	EACH	2	2		
60500050	REMOVING CATCH BASINS	EACH	2	2		
60500060	REMOVING INLETS	EACH	9	9		
60600605	CONCRETE CURB, TYPE B	FOOT	205	205		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	50	50		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3,336	3,336		
* 64100115	SIGHT SCREEN (WOODEN FENCE), TYPE P, 6 FOOT	FOOT	300			300
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,750	2,065		685
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.5		0.5
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	2		1
67100100	MOBILIZATION	L SUM	1	0.5		0.5
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18	9		9
70300100	SHORT TERM PAVEMENT MARKING	FOOT	705	705		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	655	655		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8,987	8,987		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,845	1,845		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	150	150		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	210	210		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,110	1,110		
72000100	SIGN PANEL - TYPE 1	SQ FT	225		200	25
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	11		11	
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	9		9	
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	23		23	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.U. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 7
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY	STP SAFETY	ITEP PEDESTRIAN
				0004	0021	0028
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	7		7	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	500		400	100
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	50		40	10
* 78000100	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	488	488		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,827	6,827		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,873	1,873		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	682	682		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	130	130		
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	30			30
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	40			40
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,144		1,144	
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	51		51	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	141		141	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	402		402	
* 81400100	HANDHOLE	EACH	4		4	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	3		3	
* 81400300	DOUBLE HANDHOLE	EACH	2		2	
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	72		56	16
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	9		7	2
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,218		1,218	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,589		1,589	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	920		920	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,436		1,436	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,828		1,828	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	322		322	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT, GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,682		1,682	
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4	
* 87600100	PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	2		2	
* 87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1	
* 87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2		2	
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1	

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
128/214	07-00164-02-RS	COOK	87	8
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				STP ROADWAY	STP SAFETY	ITEP PEDESTRIAN
				0004	0021	0028
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24		24	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	25		25	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15		15	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4	
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4	
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2	
* 88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8		8	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	751		751	
* 88700200	LIGHT DETECTOR	EACH	2		2	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8	
* A2002924	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* A2006524	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* A2006726	TREE, QUERCUS MACROCARPA (BUR OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* A2007924	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* B0002740	TREE, BAUMAN COMMON HORSECHESTNUT, 4" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* B2006322	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	2		6
* C2C01536	SHRUB, CORNUS RACEMOSA (GREY DOGWOOD), 3' HEIGHT, CONTAINER	EACH	10			10
* C2C043G5	SHRUB, LINDERA BENZOIN (SPICEBUSH), CONTAINER GROWN, 5-GALLON	EACH	10			10
* D2C03796	EVERGREEN, THUJA OCCIDENTALIS DARK GREEN (DARK GREEN ARBORVITAE), 8' HEIGHT, CONTAINER	EACH	30			30
* K0026620	TRANSPLANTED SALVAGED SHRUBS	EACH	30			30
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5
Z0022800	FENCE REMOVAL	FOOT	300			300
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	156	156		
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8	8		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1			1
Z0056608	STORM SEWERS (WATER MAIN REQUIREMENTS), 12 INCH	FOOT	705	637		68

* DENOTES SPECIALTY ITEM

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 12/9/13
 120011-34-SH-S00.sht



DESIGNED - CAC	REVISED - 1/7/14 PER IDOT
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-S00.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE

STA. TO STA.

F.A.U. RTE. (284/213)	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 9
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	STP	STP	ITEP
				CONSTRUCTION TYPE CODE		
				ROADWAY 0004	SAFETY 0021	PEDESTRIAN 0028
Z0056610	STORM SEWERS (WATER MAIN REQUIREMENTS), 15 INCH	FOOT	281	26		255
Z0056612	STORM SEWERS (WATER MAIN REQUIREMENTS), 18 INCH	FOOT	448	448		
Z0062456	TEMPORARY PAVEMENT	SQ YD	902	902		
# Z0076600	TRAINEES	HOUR	1,000	1,000		
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	3			3
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	315		315	
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	3	1		2
* X0324585	SANITARY SEWER SERVICE REMOVAL AND REPLACEMENT	EACH	4	4		
* X0324915	RELOCATE LIGHTING UNITS AND POLES	EACH	9		7	2
* X0325207	TELEVISION INSPECTION OF SEWER	FOOT	691	691		
X0327177	WOOD BRIDGE TO BE REMOVED AND REINSTALLED	L SUM	1	1		
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	30	30		
X4023000	TEMPORARY ACCESS (ROAD)	EACH	3	3		
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	902	902		
X6011805	PIPE DRAINS 8" (SPECIAL)	FOOT	30	30		
* X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	2		1
* X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	7	5		2
* X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	3	2		1
* X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	4		1
X6026622	VALVE VAULTS TO BE REMOVED	EACH	1			1
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5		0.5
* X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1	
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
XX006044	WOOD FENCE TO BE REMOVED AND REPLACED	FOOT	300			300
* XX007759	ADJUST SANITARY SEWER CLEANOUT	EACH	1	1		
* XX008188	SANITARY SEWER REPAIR, REMOVE AND REPLACE	FOOT	100	100		
* XX008530	WATER SERVICE LINE, DIRECTIONAL BORING 1-1/2"	EACH	1	1		
* XX007821	WATER SERVICE LINE, 2"	EACH	2	2		

* DENOTES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042

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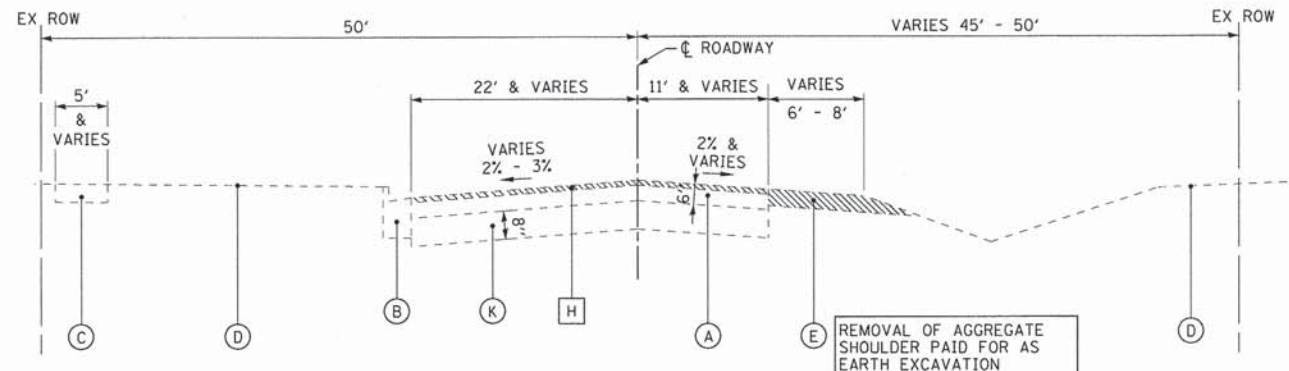
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

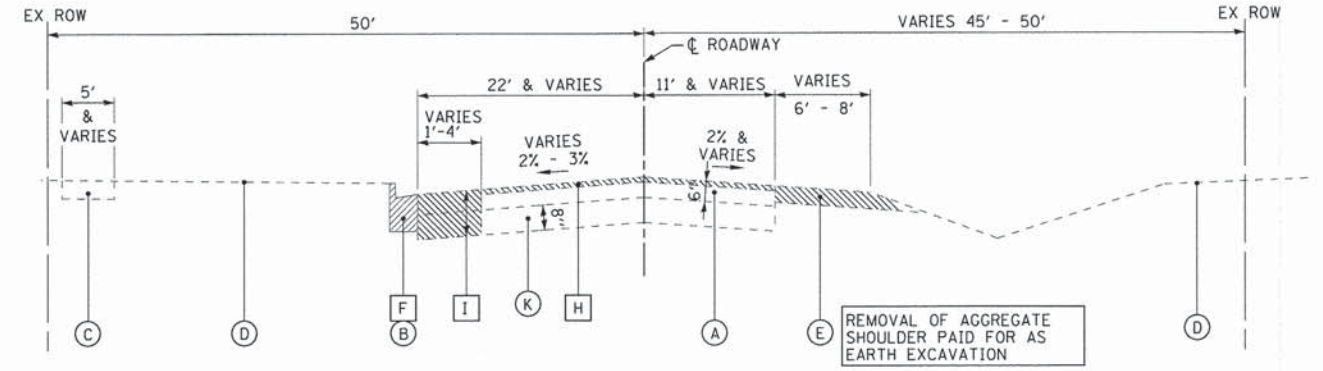
SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

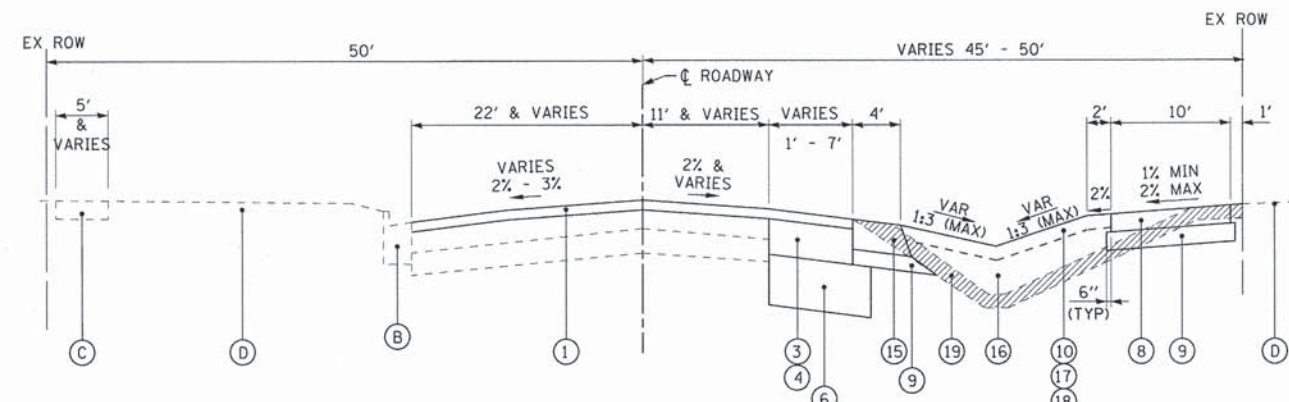
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	10
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



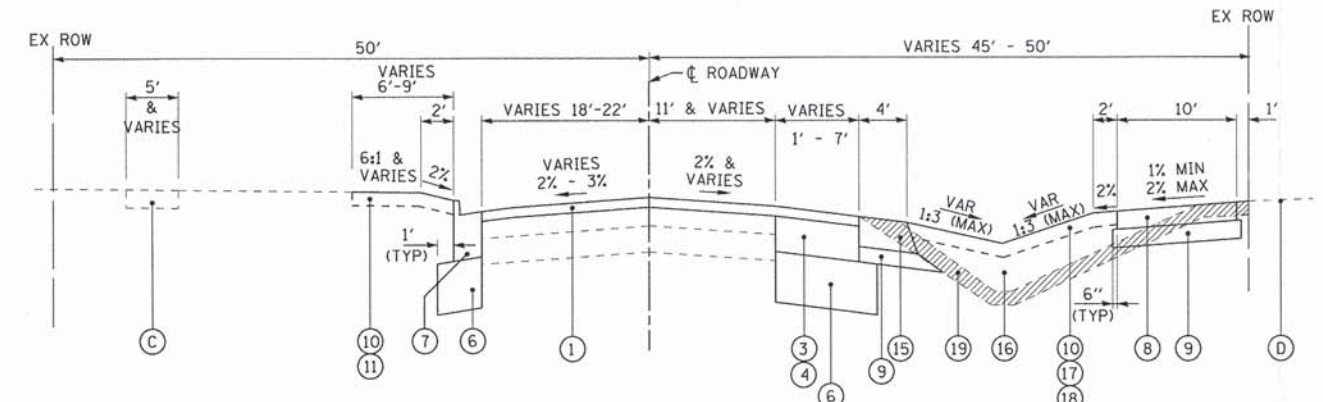
**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 265+39 TO STA 266+92**



**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 266+92 TO STA 267+69**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 265+39 TO STA 266+92 (SEE NOTE 1)**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 266+92 TO STA 267+69 (SEE NOTE 1)**

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT BINDER & SURFACE COURSES
- (B) EXISTING CURB AND GUTTER
- (C) EXISTING CONCRETE SIDEWALK
- (D) GROUND SURFACE (6" AVG. TOPSOIL DEPTH)
- (E) EXISTING AGGREGATE SHOULDER
- (F) COMBINATION CURB AND GUTTER REMOVAL
- (G) SIDEWALK REMOVAL (WHERE SHOWN ON PLANS OR AS DETERMINED BY THE ENGINEER)
- (H) HOT-MIX ASPHALT SURFACE REMOVAL - 2"
- (I) PAVEMENT REMOVAL
- (J) EXISTING AGGREGATE BASE COURSE
- (K) EXISTING PCC BASE COURSE
- (Hatched) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4" (FOR WIDENING OF SIX FEET OR LESS)
- (4) HOT-MIX ASPHALT BASE COURSE, 7 3/4" (FOR WIDENING OF GREATER THAN SIX FEET)
- (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MIN FLAG DEPTH 9")
- (8) PCC SIDEWALK, 5" (THICKEN TO 6" THROUGH RESIDENTIAL DRIVEWAYS) (THICKEN TO 8" THROUGH COMMERCIAL DRIVEWAYS)
- (9) AGGREGATE BASE COURSE, TYPE B - 4"
- (10) TOPSOIL FURNISH AND PLACE - 4"
- (11) SODDING
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)
- (14) AGGREGATE SHOULDERS, TYPE B - 8"
- (15) HOT-MIX ASPHALT SHOULDER - 8"
- (16) FURNISHED EXCAVATION
- (17) SEEDING, CLASS 4A
- (18) EROSION CONTROL BLANKET
- (19) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 7 1/2"
- (21) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (FOR WIDENING OF SIX FEET OR LESS)
- (22) HOT-MIX ASPHALT BASE COURSE, 7 1/2" (FOR WIDENING AREAS MORE THAN SIX FEET)
- (23) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/4"

NOTES:

1. PIPE UNDERDRAINS, 4" SHALL BE PLACED TO DRAIN THE AGGREGATE SUBGRADE IMPROVEMENT 12" AND THE UNDERCUTS REPLACED BY AGGREGATE SUBGRADE IMPROVEMENT. TRANSVERSE UNDERDRAINS SHALL BE PLACED EVERY 300-FOOT AND IN THE LOW POINTS OF ALL AREAS OF COMPLETE PAVEMENT RECONSTRUCTION AND CONNECTED TO NEAREST DRAINAGE STRUCTURE. 20-FOOT LONGITUDINAL PIECES SHALL BE PLACED IN THE WIDENING AREAS AT 300-FOOT INTERVALS AND AT ALL LOW POINTS. PIPE UNDERDRAIN, 4" SHALL BE INSTALLED ACCORDING TO THE LATEST SUPPLEMENTAL SPECIFICATIONS.

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC 2022			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D BIT THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
WEST LAKE AVENUE	9,986	803	689	II	3.57	POOR	73.8°	84	PG 64-22	730	9.75 IN	2" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 2 1/4" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 5 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 12" AGGREGATE SUBGRADE IMPROVEMENT
GREENWOOD ROAD	8,360	673	577	II	3.17	POOR	73.8°	86	PG 64-22	730	9.50 IN	2" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 2 1/4" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 5 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 12" AGGREGATE SUBGRADE IMPROVEMENT

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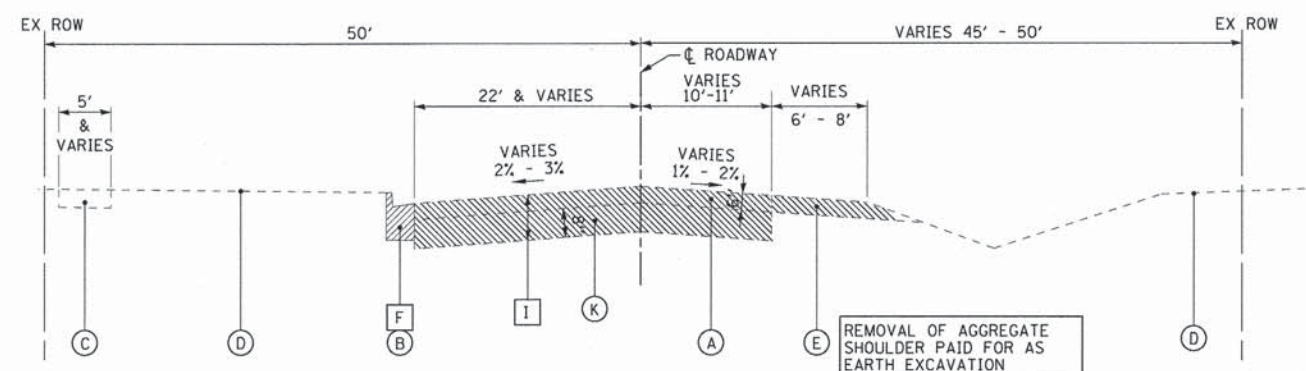
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

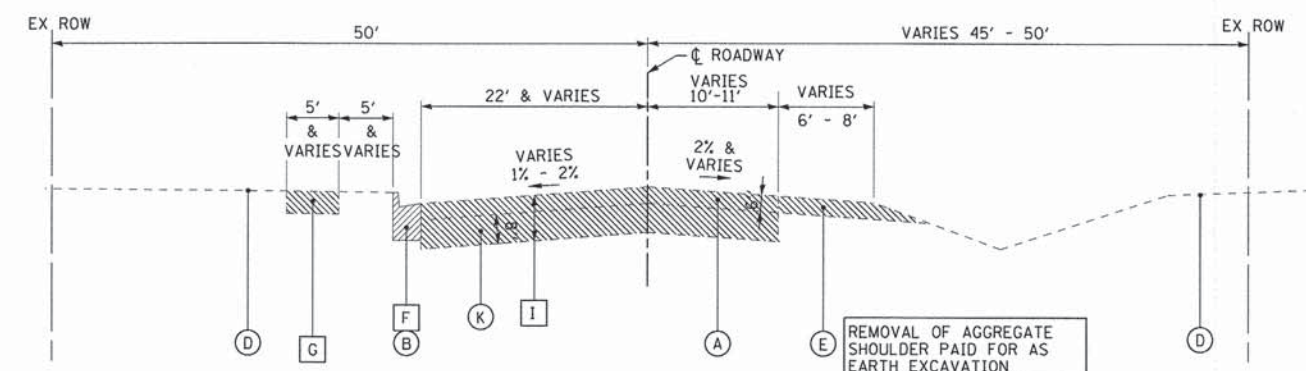
TYPICAL SECTIONS AND STRUCTURAL DESIGN DATA

SCALE: NONE	STA. TO STA.
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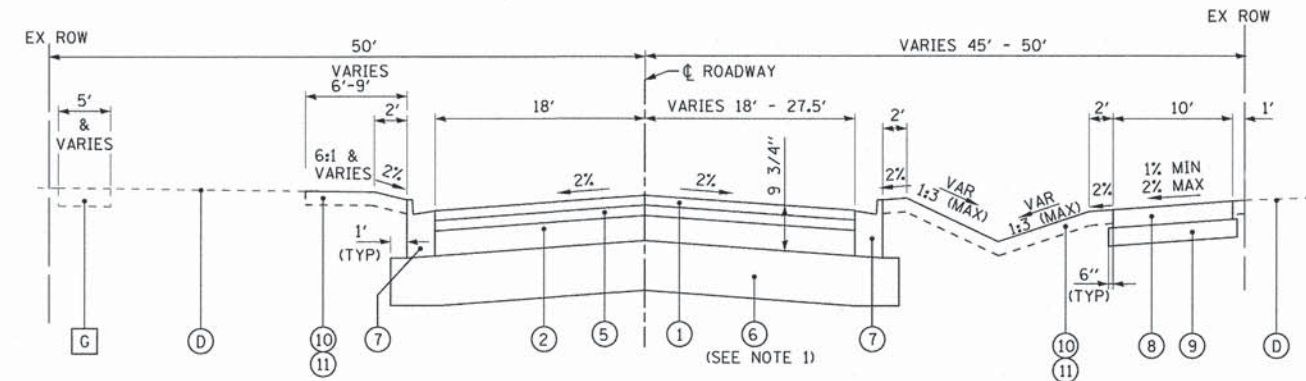
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	11
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



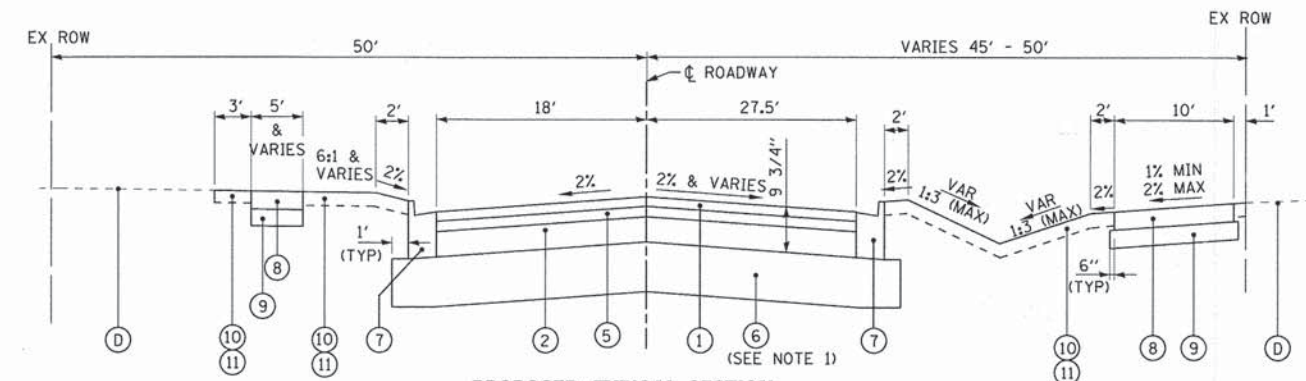
**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 267+69 TO STA 269+44**



**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 269+44 TO STA 271+72**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 267+69 TO STA 268+89**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 268+89 TO STA 271+72**

NOTES:

- PIPE UNDERDRAINS, 4" SHALL BE PLACED TO DRAIN THE AGGREGATE SUBGRADE IMPROVEMENT 12" AND THE UNDERCUTS REPLACED BY AGGREGATE SUBGRADE IMPROVEMENT. TRANSVERSE UNDERDRAINS SHALL BE PLACED EVERY 300-FOOT AND IN THE LOW POINTS OF ALL AREAS OF COMPLETE PAVEMENT RECONSTRUCTION AND CONNECTED TO NEAREST DRAINAGE STRUCTURE. 20-FOOT LONGITUDINAL PIECES SHALL BE PLACED IN THE WIDENING AREAS AT 300-FOOT INTERVALS AND AT ALL LOW POINTS. PIPE UNDERDRAIN, 4" SHALL BE INSTALLED ACCORDING TO THE LATEST SUPPLEMENTAL SPECIFICATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT, 9 3/4" (WEST LAKE AVENUE)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90; 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90; 5 1/2" (IN 2 LIFTS)	4% @ 90 GYR.
FULL DEPTH PAVEMENT, 9 1/2" (GREENWOOD AVENUE)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90; 5 1/4" (IN 2 LIFTS)	4% @ 90 GYR.
STABILIZED DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm) N50; PE - 6", CE - 8" (IN 2 LIFTS)	4% @ 50 GYR.
SHOULDER RECONSTRUCTION	
HOT-MIX ASPHALT SHOULDERS (HMA BINDER IL-19mm), 8" (IN 2 LIFTS)	4% @ 50 GYR.
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2"	4% @ 90 GYR.
PAVEMENT WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2"	4% @ 90 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm, N90); (2 LIFTS) - 7 3/4" OR 7 1/2"	4% @ 90 GYR.
HMA BASE COURSE WIDENING (HMA BINDER IL-19mm, N90); (2 LIFTS) - 7 3/4" OR 7 1/2"	4% @ 90 GYR.

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22 AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS." FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT BINDER & SURFACE COURSES
- (B) EXISTING CURB AND GUTTER
- (C) EXISTING CONCRETE SIDEWALK
- (D) GROUND SURFACE (6" AVG. TOPSOIL DEPTH)
- (E) EXISTING AGGREGATE SHOULDER
- (F) COMBINATION CURB AND GUTTER REMOVAL
- (G) SIDEWALK REMOVAL (WHERE SHOWN ON PLANS OR AS DETERMINED BY THE ENGINEER)
- (H) HOT-MIX ASPHALT SURFACE REMOVAL - 2"
- (I) PAVEMENT REMOVAL
- (J) EXISTING AGGREGATE BASE COURSE
- (K) EXISTING PCC BASE COURSE
- [Hatched Box] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4" (FOR WIDENING OF SIX FEET OR LESS)
- (4) HOT-MIX ASPHALT BASE COURSE, 7 3/4" (FOR WIDENING OF GREATER THAN SIX FEET)
- (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MIN FLAG DEPTH 9")
- (8) PCC SIDEWALK, 5" (THICKEN TO 6" THROUGH RESIDENTIAL DRIVEWAYS) (THICKEN TO 8" THROUGH COMMERCIAL DRIVEWAYS)
- (9) AGGREGATE BASE COURSE, TYPE B - 4"
- (10) TOPSOIL FURNISH AND PLACE - 4"
- (11) SODDING
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)
- (14) AGGREGATE SHOULDERS, TYPE B - 8"
- (15) HOT-MIX ASPHALT SHOULDER - 8"
- (16) FURNISHED EXCAVATION
- (17) SEEDING, CLASS 4A
- (18) EROSION CONTROL BLANKET
- (19) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 7 1/2"
- (21) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (FOR WIDENING OF SIX FEET OR LESS)
- (22) HOT-MIX ASPHALT BASE COURSE, 7 1/2" (FOR WIDENING AREAS MORE THAN SIX FEET)
- (23) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/4"

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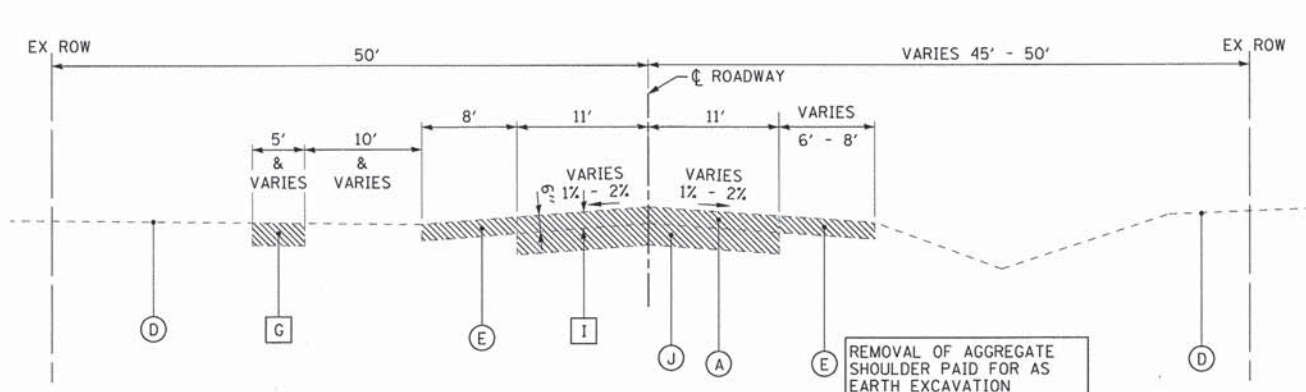
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

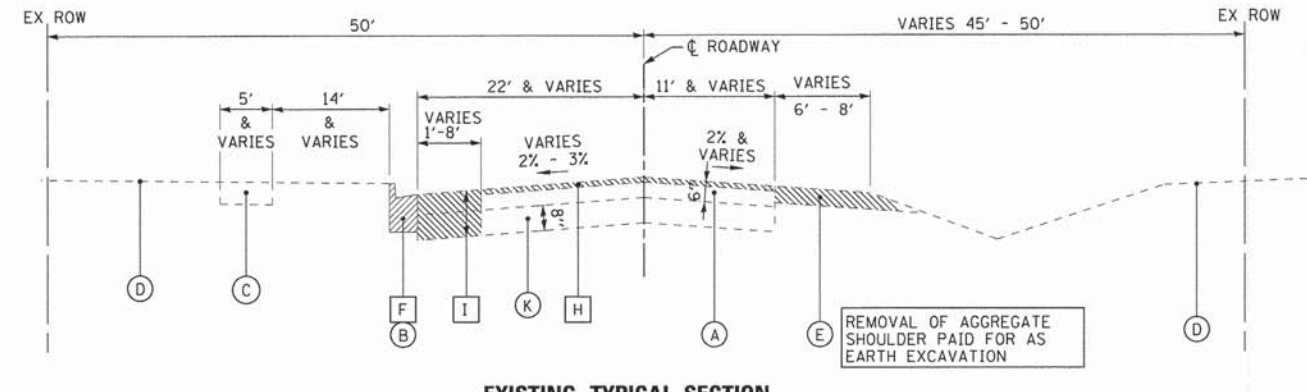
**TYPICAL SECTIONS AND
HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

SCALE: NONE STA. TO STA.

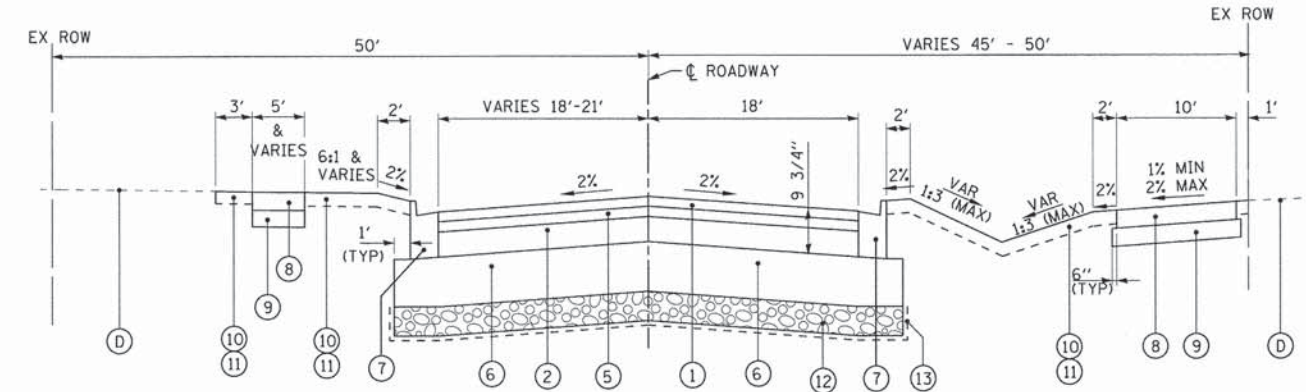
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
128/2143	07-00164-02-R5	COOK	87	12
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-400310861				



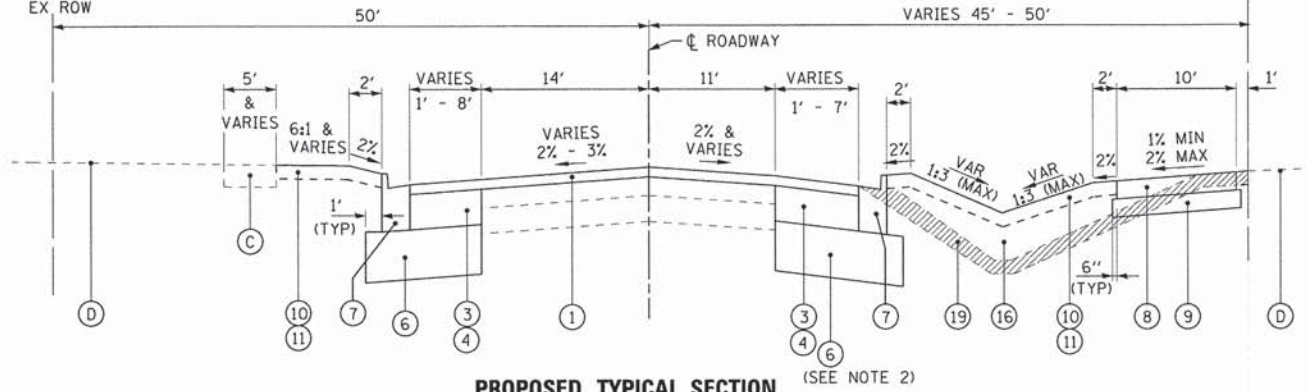
**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 271+72 TO STA 278+98**



**EXISTING TYPICAL SECTION
WEST LAKE AVENUE
STA 278+98 TO STA 282+19**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 271+72 TO STA 278+98
(SEE NOTE 1 & 2)**



**PROPOSED TYPICAL SECTION
WEST LAKE AVENUE
STA 278+98 TO STA 282+19
(SEE NOTE 2)**

- EXISTING LEGEND**
- (A) EXISTING HOT-MIX ASPHALT BINDER & SURFACE COURSES
 - (B) EXISTING CURB AND GUTTER
 - (C) EXISTING CONCRETE SIDEWALK
 - (D) GROUND SURFACE (6" AVG. TOPSOIL DEPTH)
 - (E) EXISTING AGGREGATE SHOULDER
 - (F) COMBINATION CURB AND GUTTER REMOVAL
 - (G) SIDEWALK REMOVAL (WHERE SHOWN ON PLANS OR AS DETERMINED BY THE ENGINEER)
 - (H) HOT-MIX ASPHALT SURFACE REMOVAL - 2"
 - (I) PAVEMENT REMOVAL
 - (J) EXISTING AGGREGATE BASE COURSE
 - (K) EXISTING PCC BASE COURSE
 - [Hatched Box] ITEM TO BE REMOVED

- PROPOSED LEGEND**
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 2"
 - (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/2"
 - (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4" (FOR WIDENING OF SIX FEET OR LESS)
 - (4) HOT-MIX ASPHALT BASE COURSE, 7 3/4" (FOR WIDENING OF GREATER THAN SIX FEET)
 - (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
 - (6) AGGREGATE SUBGRADE IMPROVEMENT - 12"
 - (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MIN FLAG DEPTH 9")
 - (8) PCC SIDEWALK, 5" (THICKEN TO 6" THROUGH RESIDENTIAL DRIVEWAYS) (THICKEN TO 8" THROUGH COMMERCIAL DRIVEWAYS)
 - (9) AGGREGATE BASE COURSE, TYPE B - 4"
 - (10) TOPSOIL FURNISH AND PLACE - 4"
 - (11) SODDING
 - (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
 - (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)
 - (14) AGGREGATE SHOULDERS, TYPE B - 8"
 - (15) HOT-MIX ASPHALT SHOULDER - 8"
 - (16) FURNISHED EXCAVATION
 - (17) SEEDING, CLASS 4A
 - (18) EROSION CONTROL BLANKET
 - (19) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
 - (20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 7 1/2"
 - (21) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (FOR WIDENING OF SIX FEET OR LESS)
 - (22) HOT-MIX ASPHALT BASE COURSE, 7 1/2" (FOR WIDENING AREAS MORE THAN SIX FEET)
 - (23) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/4"

NOTES:

1. AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR.
2. PIPE UNDERDRAINS, 4" SHALL BE PLACED TO DRAIN THE AGGREGATE SUBGRADE IMPROVEMENT 12" AND THE UNDERCUTS REPLACED BY AGGREGATE SUBGRADE IMPROVEMENT. TRANSVERSE UNDERDRAINS SHALL BE PLACED EVERY 300-FOOT AND IN THE LOW POINTS OF ALL AREAS OF COMPLETE PAVEMENT RECONSTRUCTION AND CONNECTED TO NEAREST DRAINAGE STRUCTURE. 20-FOOT LONGITUDINAL PIECES SHALL BE PLACED IN THE WIDENING AREAS AT 300-FOOT INTERVALS AND AT ALL LOW POINTS. PIPE UNDERDRAIN, 4" SHALL BE INSTALLED ACCORDING TO THE LATEST SUPPLEMENTAL SPECIFICATIONS.

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 PROJECT: I-55/US-41/US-124/US-155/US-156/US-157/US-158/US-159/US-160/US-161/US-162/US-163/US-164/US-165/US-166/US-167/US-168/US-169/US-170/US-171/US-172/US-173/US-174/US-175/US-176/US-177/US-178/US-179/US-180/US-181/US-182/US-183/US-184/US-185/US-186/US-187/US-188/US-189/US-190/US-191/US-192/US-193/US-194/US-195/US-196/US-197/US-198/US-199/US-200/US-201/US-202/US-203/US-204/US-205/US-206/US-207/US-208/US-209/US-210/US-211/US-212/US-213/US-214/US-215/US-216/US-217/US-218/US-219/US-220/US-221/US-222/US-223/US-224/US-225/US-226/US-227/US-228/US-229/US-230/US-231/US-232/US-233/US-234/US-235/US-236/US-237/US-238/US-239/US-240/US-241/US-242/US-243/US-244/US-245/US-246/US-247/US-248/US-249/US-250/US-251/US-252/US-253/US-254/US-255/US-256/US-257/US-258/US-259/US-260/US-261/US-262/US-263/US-264/US-265/US-266/US-267/US-268/US-269/US-270/US-271/US-272/US-273/US-274/US-275/US-276/US-277/US-278/US-279/US-280/US-281/US-282/US-283/US-284/US-285/US-286/US-287/US-288/US-289/US-290/US-291/US-292/US-293/US-294/US-295/US-296/US-297/US-298/US-299/US-300/US-301/US-302/US-303/US-304/US-305/US-306/US-307/US-308/US-309/US-310/US-311/US-312/US-313/US-314/US-315/US-316/US-317/US-318/US-319/US-320/US-321/US-322/US-323/US-324/US-325/US-326/US-327/US-328/US-329/US-330/US-331/US-332/US-333/US-334/US-335/US-336/US-337/US-338/US-339/US-340/US-341/US-342/US-343/US-344/US-345/US-346/US-347/US-348/US-349/US-350/US-351/US-352/US-353/US-354/US-355/US-356/US-357/US-358/US-359/US-360/US-361/US-362/US-363/US-364/US-365/US-366/US-367/US-368/US-369/US-370/US-371/US-372/US-373/US-374/US-375/US-376/US-377/US-378/US-379/US-380/US-381/US-382/US-383/US-384/US-385/US-386/US-387/US-388/US-389/US-390/US-391/US-392/US-393/US-394/US-395/US-396/US-397/US-398/US-399/US-400/US-401/US-402/US-403/US-404/US-405/US-406/US-407/US-408/US-409/US-410/US-411/US-412/US-413/US-414/US-415/US-416/US-417/US-418/US-419/US-420/US-421/US-422/US-423/US-424/US-425/US-426/US-427/US-428/US-429/US-430/US-431/US-432/US-433/US-434/US-435/US-436/US-437/US-438/US-439/US-440/US-441/US-442/US-443/US-444/US-445/US-446/US-447/US-448/US-449/US-450/US-451/US-452/US-453/US-454/US-455/US-456/US-457/US-458/US-459/US-460/US-461/US-462/US-463/US-464/US-465/US-466/US-467/US-468/US-469/US-470/US-471/US-472/US-473/US-474/US-475/US-476/US-477/US-478/US-479/US-480/US-481/US-482/US-483/US-484/US-485/US-486/US-487/US-488/US-489/US-490/US-491/US-492/US-493/US-494/US-495/US-496/US-497/US-498/US-499/US-500/US-501/US-502/US-503/US-504/US-505/US-506/US-507/US-508/US-509/US-510/US-511/US-512/US-513/US-514/US-515/US-516/US-517/US-518/US-519/US-520/US-521/US-522/US-523/US-524/US-525/US-526/US-527/US-528/US-529/US-530/US-531/US-532/US-533/US-534/US-535/US-536/US-537/US-538/US-539/US-540/US-541/US-542/US-543/US-544/US-545/US-546/US-547/US-548/US-549/US-550/US-551/US-552/US-553/US-554/US-555/US-556/US-557/US-558/US-559/US-560/US-561/US-562/US-563/US-564/US-565/US-566/US-567/US-568/US-569/US-570/US-571/US-572/US-573/US-574/US-575/US-576/US-577/US-578/US-579/US-580/US-581/US-582/US-583/US-584/US-585/US-586/US-587/US-588/US-589/US-590/US-591/US-592/US-593/US-594/US-595/US-596/US-597/US-598/US-599/US-600/US-601/US-602/US-603/US-604/US-605/US-606/US-607/US-608/US-609/US-610/US-611/US-612/US-613/US-614/US-615/US-616/US-617/US-618/US-619/US-620/US-621/US-622/US-623/US-624/US-625/US-626/US-627/US-628/US-629/US-630/US-631/US-632/US-633/US-634/US-635/US-636/US-637/US-638/US-639/US-640/US-641/US-642/US-643/US-644/US-645/US-646/US-647/US-648/US-649/US-650/US-651/US-652/US-653/US-654/US-655/US-656/US-657/US-658/US-659/US-660/US-661/US-662/US-663/US-664/US-665/US-666/US-667/US-668/US-669/US-670/US-671/US-672/US-673/US-674/US-675/US-676/US-677/US-678/US-679/US-680/US-681/US-682/US-683/US-684/US-685/US-686/US-687/US-688/US-689/US-690/US-691/US-692/US-693/US-694/US-695/US-696/US-697/US-698/US-699/US-700/US-701/US-702/US-703/US-704/US-705/US-706/US-707/US-708/US-709/US-710/US-711/US-712/US-713/US-714/US-715/US-716/US-717/US-718/US-719/US-720/US-721/US-722/US-723/US-724/US-725/US-726/US-727/US-728/US-729/US-730/US-731/US-732/US-733/US-734/US-735/US-736/US-737/US-738/US-739/US-740/US-741/US-742/US-743/US-744/US-745/US-746/US-747/US-748/US-749/US-750/US-751/US-752/US-753/US-754/US-755/US-756/US-757/US-758/US-759/US-760/US-761/US-762/US-763/US-764/US-765/US-766/US-767/US-768/US-769/US-770/US-771/US-772/US-773/US-774/US-775/US-776/US-777/US-778/US-779/US-780/US-781/US-782/US-783/US-784/US-785/US-786/US-787/US-788/US-789/US-790/US-791/US-792/US-793/US-794/US-795/US-796/US-797/US-798/US-799/US-800/US-801/US-802/US-803/US-804/US-805/US-806/US-807/US-808/US-809/US-810/US-811/US-812/US-813/US-814/US-815/US-816/US-817/US-818/US-819/US-820/US-821/US-822/US-823/US-824/US-825/US-826/US-827/US-828/US-829/US-830/US-831/US-832/US-833/US-834/US-835/US-836/US-837/US-838/US-839/US-840/US-841/US-842/US-843/US-844/US-845/US-846/US-847/US-848/US-849/US-850/US-851/US-852/US-853/US-854/US-855/US-856/US-857/US-858/US-859/US-860/US-861/US-862/US-863/US-864/US-865/US-86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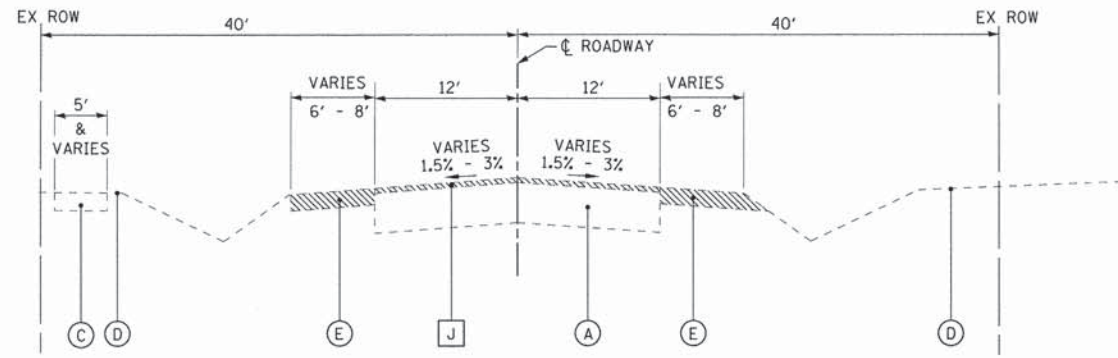
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

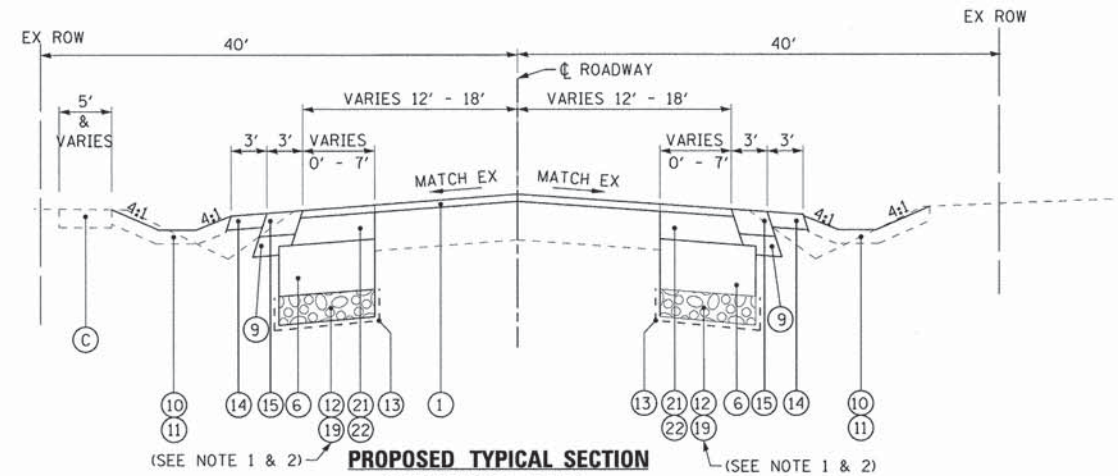
TYPICAL SECTIONS

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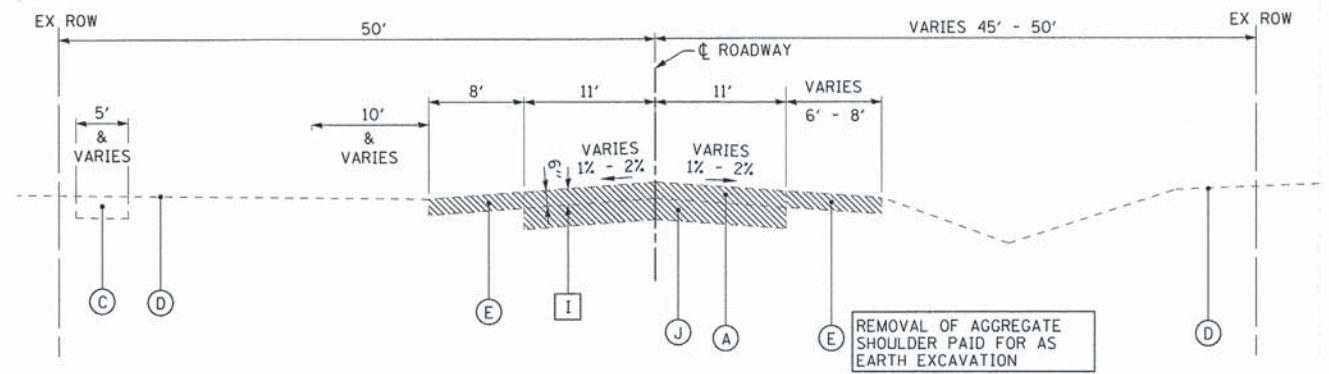
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1284/2743	07-00164-02-RS	COOK	87	13
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-400310861				



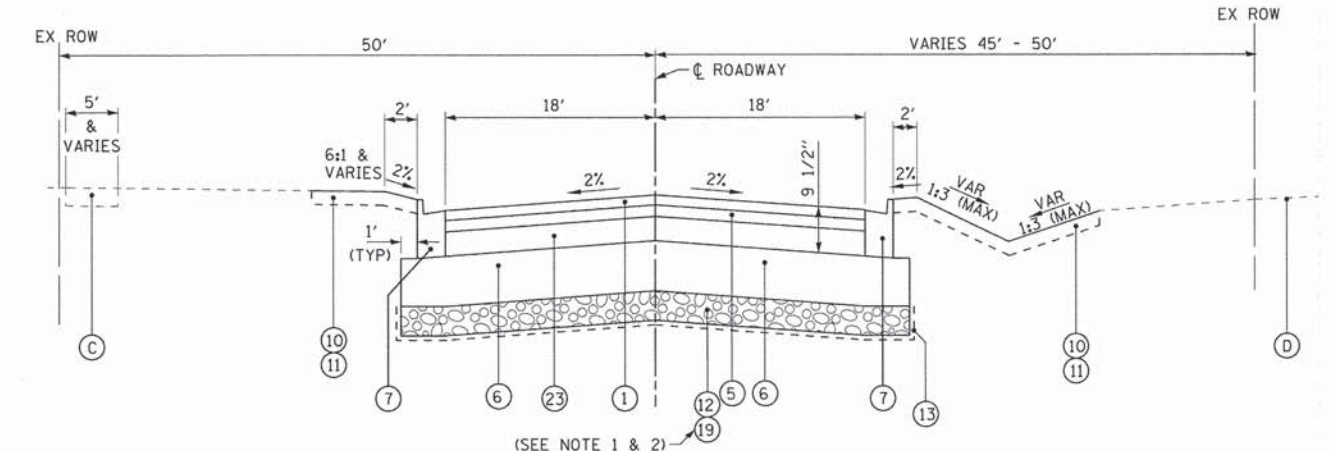
**EXISTING TYPICAL SECTION
GREENWOOD ROAD
STA 17+21 TO STA 24+10**



**PROPOSED TYPICAL SECTION
GREENWOOD ROAD
STA 17+21 TO STA 24+10**



**EXISTING TYPICAL SECTION
GREENWOOD ROAD
STA 24+10 TO STA 25+32**



**PROPOSED TYPICAL SECTION
GREENWOOD ROAD
STA 24+10 TO STA 25+32**

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT BINDER & SURFACE COURSES
- (B) EXISTING CURB AND GUTTER
- (C) EXISTING CONCRETE SIDEWALK
- (D) GROUND SURFACE (6" AVG. TOPSOIL DEPTH)
- (E) EXISTING AGGREGATE SHOULDER
- (F) COMBINATION CURB AND GUTTER REMOVAL
- (G) SIDEWALK REMOVAL (WHERE SHOWN ON PLANS OR AS DETERMINED BY THE ENGINEER)
- (H) HOT-MIX ASPHALT SURFACE REMOVAL - 2"
- (I) PAVEMENT REMOVAL
- (J) EXISTING AGGREGATE BASE COURSE
- (K) EXISTING PCC BASE COURSE
- [Hatched Box] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4" (FOR WIDENING OF SIX FEET OR LESS)
- (4) HOT-MIX ASPHALT BASE COURSE, 7 3/4" (FOR WIDENING OF GREATER THAN SIX FEET)
- (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MIN FLAG DEPTH 9")
- (8) PCC SIDEWALK, 5" (THICKEN TO 6" THROUGH RESIDENTIAL DRIVEWAYS) (THICKEN TO 8" THROUGH COMMERCIAL DRIVEWAYS)
- (9) AGGREGATE BASE COURSE, TYPE B - 4"
- (10) TOPSOIL FURNISH AND PLACE - 4"
- (11) SODDING
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)
- (14) AGGREGATE SHOULDERS, TYPE B - 8"
- (15) HOT-MIX ASPHALT SHOULDER - 8"
- (16) FURNISHED EXCAVATION
- (17) SEEDING, CLASS 4A
- (18) EROSION CONTROL BLANKET
- (19) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 7 1/2"
- (21) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (FOR WIDENING OF SIX FEET OR LESS)
- (22) HOT-MIX ASPHALT BASE COURSE, 7 1/2" (FOR WIDENING AREAS MORE THAN SIX FEET)
- (23) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/4"

NOTES:

1. AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR.
2. PIPE UNDERDRAINS, 4" SHALL BE PLACED TO DRAIN THE AGGREGATE SUBGRADE IMPROVEMENT 12" AND THE UNDERCUTS REPLACED BY AGGREGATE SUBGRADE IMPROVEMENT. TRANSVERSE UNDERDRAINS SHALL BE PLACED EVERY 300-FOOT AND IN THE LOW POINTS OF ALL AREAS OF COMPLETE PAVEMENT RECONSTRUCTION AND CONNECTED TO NEAREST DRAINAGE STRUCTURE. 20-FOOT LONGITUDINAL PIECES SHALL BE PLACED IN THE WIDENING AREAS AT 300-FOOT INTERVALS AND AT ALL LOW POINTS. PIPE UNDERDRAIN, 4" SHALL BE INSTALLED ACCORDING TO THE LATEST SUPPLEMENTAL SPECIFICATIONS.

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 041-00000000-0000-0000-0000-00000000
 PROJECT NO. 07-00164-02-RS
 DATE: 12/9/13



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH_TypSec.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

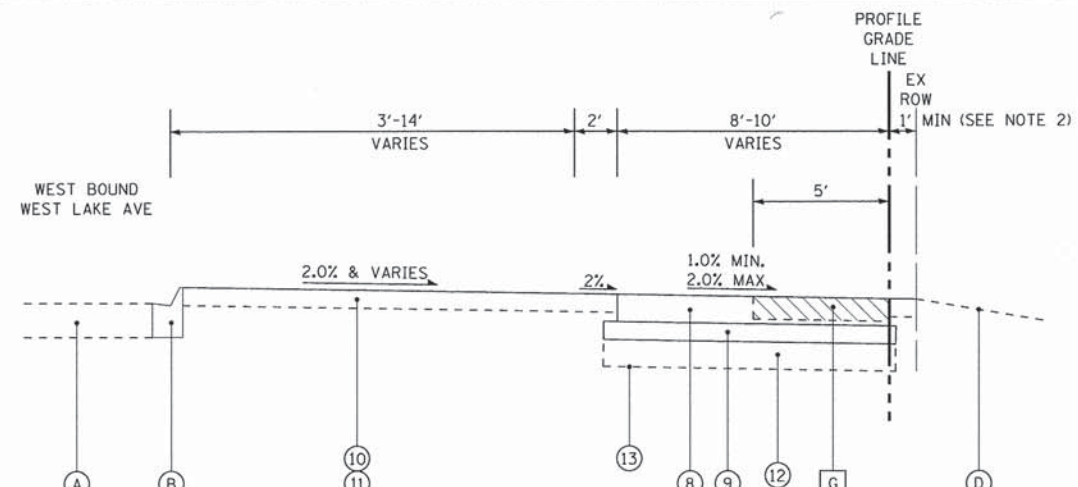
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TYPICAL SECTIONS

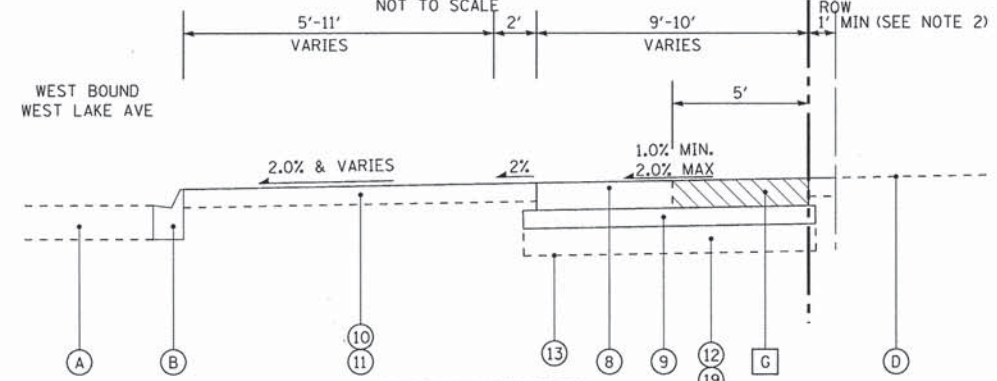
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	14
	C-91-028-13			
				CONTRACT NO. 63878

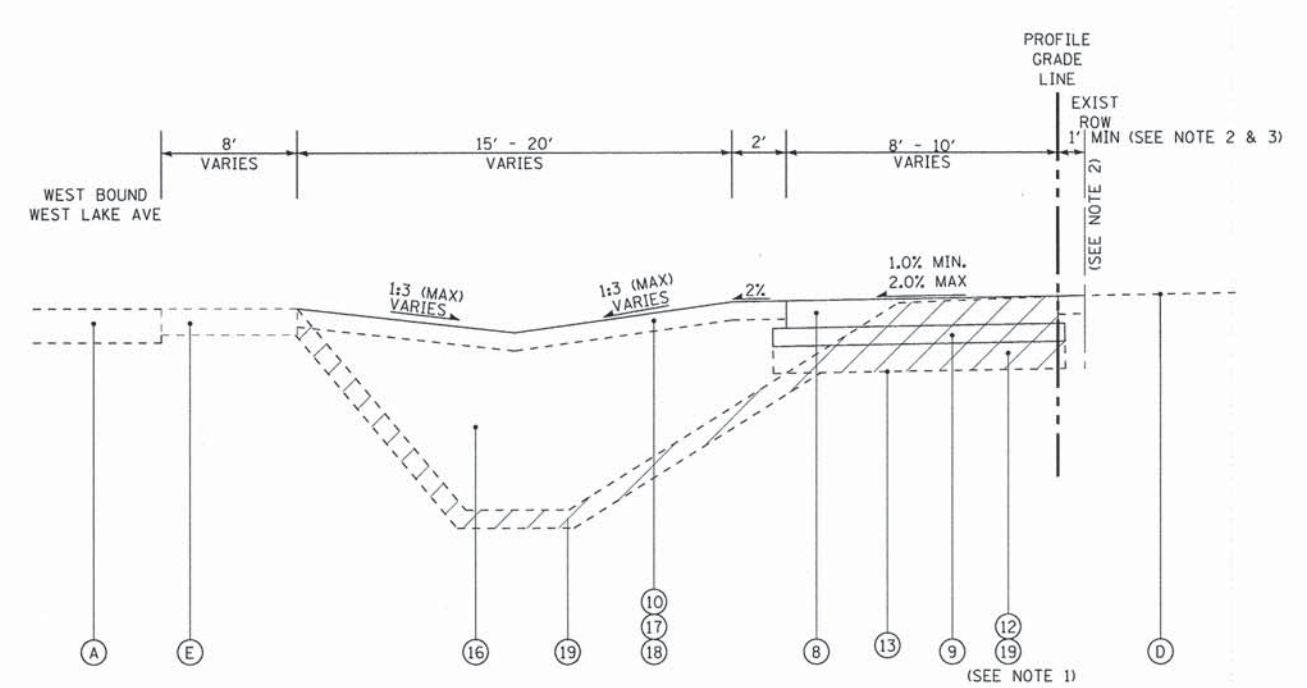
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-4003(086)



**PROPOSED BIKE PATH
TYPICAL SECTION**
STA 245+08 TO STA 252+29
NOT TO SCALE



**PROPOSED BIKE PATH
TYPICAL SECTION**
STA 268+85 TO STA 270+95
STA 278+54 TO STA 279+00
NOT TO SCALE



**PROPOSED BIKE PATH
TYPICAL SECTION**
STA 252+29 TO STA 257+78
STA 258+22 TO STA 268+40
NOT TO SCALE

- EXISTING LEGEND**
- (A) EXISTING HOT-MIX ASPHALT BINDER & SURFACE COURSES
 - (B) EXISTING CURB AND GUTTER
 - (C) EXISTING CONCRETE SIDEWALK
 - (D) GROUND SURFACE (6" AVG. TOPSOIL DEPTH)
 - (E) EXISTING AGGREGATE SHOULDER
 - (F) COMBINATION CURB AND GUTTER REMOVAL
 - (G) SIDEWALK REMOVAL (WHERE SHOWN ON PLANS OR AS DETERMINED BY THE ENGINEER)
 - (H) HOT-MIX ASPHALT SURFACE REMOVAL - 2"
 - (I) PAVEMENT REMOVAL
 - (J) EXISTING AGGREGATE BASE COURSE
 - (K) EXISTING PCC BASE COURSE
 - (Hatched box) ITEM TO BE REMOVED

- PROPOSED LEGEND**
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 2"
 - (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/2"
 - (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4" (FOR WIDENING OF SIX FEET OR LESS)
 - (4) HOT-MIX ASPHALT BASE COURSE, 7 3/4" (FOR WIDENING OF GREATER THAN SIX FEET)
 - (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
 - (6) AGGREGATE SUBGRADE IMPROVEMENT - 12"
 - (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MIN FLAG DEPTH 9")
 - (8) PCC SIDEWALK, 5" (THICKEN TO 6" THROUGH RESIDENTIAL DRIVEWAYS) (THICKEN TO 8" THROUGH COMMERCIAL DRIVEWAYS)
 - (9) AGGREGATE BASE COURSE, TYPE B - 4"
 - (10) TOPSOIL FURNISH AND PLACE - 4"
 - (11) SODDING
 - (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
 - (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (IN UNDERCUT AREAS)
 - (14) AGGREGATE SHOULDERS, TYPE B - 8"
 - (15) HOT-MIX ASPHALT SHOULDER - 8"
 - (16) FURNISHED EXCAVATION
 - (17) SEEDING, CLASS 4A
 - (18) EROSION CONTROL BLANKET
 - (19) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
 - (20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 7 1/2"
 - (21) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (FOR WIDENING OF SIX FEET OR LESS)
 - (22) HOT-MIX ASPHALT BASE COURSE, 7 1/2" (FOR WIDENING AREAS MORE THAN SIX FEET)
 - (23) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 5 1/4"

- NOTES:**
1. AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR.
 2. CONSTRUCTION ACTIVITIES FOR THE PROPOSED PCC BIKE TRAIL SHALL NOT EXTEND BEYOND THE EXISTING RIGHT OF WAY LINE.
 3. VARIES 1'-8" (STA 263+10 TO STA 268+75)

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DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-TypSec.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS - BIKE TRAIL

SCALE: NONE	STA. TO STA.	F.A.U. RTE. 1284/2743	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 15
		C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-400310861						

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CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH.Schedule.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE STA. TO STA.

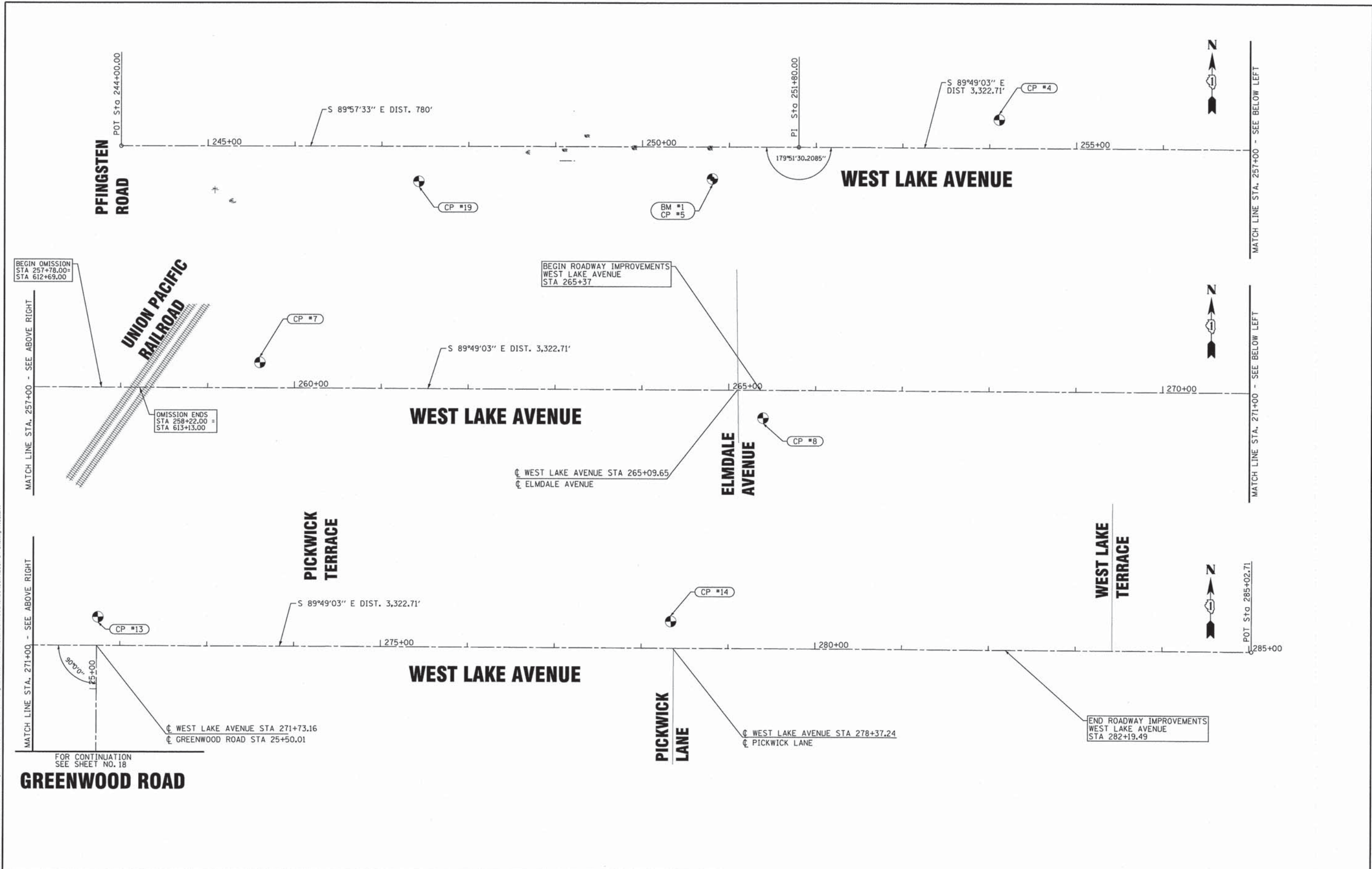
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	16
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

STA BEGIN	STA END	UNDERCUT AND PGES REPL (CU YD)	TOPSOIL EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	NON SPECIAL WASTE DISPOSAL (CU YD)	EARTH EXCAVATION (CU YD)	TRENCH EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
WEST LAKE AVENUE:											
245+08	246+00	0.0	23.9	23.9		21.7	0.0	21.7	18.5	0.0	18.5
246+00	247+00	0.0	25.9	25.9	25.9	23.6	0.0	23.6	20.1	0.0	20.1
247+00	248+00	0.0	27.2	27.2	27.2	23.6	0.0	23.6	20.1	0.0	20.1
248+00	249+00	0.0	32.8	32.8	32.8	24.9	0.0	24.9	21.2	0.0	21.2
249+00	250+00	0.0	39.8	39.8		26.1	0.0	26.1	22.3	0.0	22.3
250+00	251+00	0.0	46.9	46.9	46.9	26.1	0.0	26.1	22.3	0.0	22.3
251+00	252+00	0.0	54.8	54.8	54.8	28.1	62.5	90.6	77.1	15.1	62.0
252+00	253+00	0.0	62.2	62.2	62.2	17.6	62.5	80.1	68.1	89.0	-20.9
253+00	254+00	0.0	68.5	68.5		2.7	62.5	65.2	55.5	161.5	-106.0
254+00	255+00	0.0	71.3	71.3	71.3	0.2	62.5	62.7	53.3	205.6	-152.3
255+00	256+00	0.0	72.0	72.0	72.0	7.8	62.5	70.3	59.8	185.9	-126.1
256+00	257+00	21.0	72.6	93.6		21.1	62.5	83.6	71.1	69.8	1.3
257+00	257+78	20.0	56.9	76.9	76.9	20.6	62.5	83.1	70.7	3.0	67.7
258+21	259+00	26.0	57.9	83.9		21.0	62.5	83.5	71.1	9.2	61.9
259+00	260+00	26.0	73.3	99.3		55.2	62.5	117.7	100.1	11.7	88.4
260+00	261+00	26.0	73.1	99.1	92.1	80.0	62.5	142.5	121.2	7.8	113.4
261+00	262+00	26.0	73.5	99.5	99.5	52.9	75.0	127.9	108.8	11.1	97.7
262+00	263+00	26.0	73.3	99.3		27.3	75.0	102.3	87.0	32.3	54.7
263+00	264+00	26.0	73.5	99.5		26.4	75.0	101.4	86.2	50.7	35.5
264+00	265+00	26.0	73.7	99.7		31.3	75.0	106.3	90.4	42.0	48.4
265+00	265+37	26.0	4.4	30.4		1.5	75.0	76.5	65.1	4.2	60.9
265+37	266+00	26.0	45.0	71.0		9.8	75.0	84.8	72.1	26.8	45.3
266+00	267+00	26.0	42.9	68.9		58.3	75.0	133.3	113.3	34.1	79.2
267+00	267+69	26.0	6.8	32.8	27.8	67.0	75.0	142.0	120.7	6.3	114.4
267+69	268+00	26.0	23.9	49.9	29.9	35.9	75.0	110.9	94.3	23.5	70.8
268+00	269+00	26.0	69.2	95.2	60.2	137.3	75.0	212.3	180.5	63.1	117.4
269+00	270+00	26.0	80.3	106.3	25.0	170.6	75.0	245.6	208.8	41.2	167.6
270+00	271+00	46.0	102.3	148.3	38.0	252.8	75.0	327.8	278.7	19.6	259.1
271+00	272+00	46.0	76.6	122.6	25.0	451.3	75.0	526.3	447.4	3.7	443.7
272+00	273+00	46.0	97.5	143.5		442.6	75.0	517.6	440.0	51.6	388.4
273+00	274+00	46.0	108.6	154.6		299.1	75.0	374.1	318.0	56.9	261.1
274+00	275+00	46.0	49.2	95.2	25.0	270.0	75.0	345.0	293.3	13.5	279.8
275+00	276+00	46.0	42.6	88.6		283.3	75.0	358.3	304.6	31.0	273.6
276+00	277+00	46.0	55.4	101.4	35.0	314.4	150.0	464.4	394.8	76.5	318.3
277+00	278+00	46.0	54.2	100.2		264.1	150.0	414.1	352.1	93.4	258.7
278+00	279+00	46.0	75.7	121.7	37.0	253.0	0.0	253.0	215.1	45.1	170.0
279+00	280+00	0.0	75.5	75.5		127.9	0.0	127.9	108.8	10.6	98.2
280+00	281+00	0.0	58.6	58.6	35.0	115.3	0.0	115.3	98.0	7.2	90.8
281+00	282+00	0.0	49.0	49.0		91.3	0.0	91.3	77.6	5.9	71.7
282+00	282+20	0.0	11.6	11.6		16.6	0.0	16.6	14.2	3.2	11.0
GREENWOOD ROAD:											
17+21	18+00	18.0	52.8	70.6		24.5	0.0	24.5	20.9	33.5	-12.8
18+00	19+00	36.0	94.8	130.8	25.0	102.5	0.0	102.5	87.2	75.3	11.9
19+00	20+00	48.0	91.6	139.6		121.2	0.0	121.2	103.0	73.7	29.3
20+00	21+00	6.0	90.5	96.5		94.1	0.0	94.1	80.0	64.8	15.2
21+00	22+00	14.0	73.7	87.7		112.6	0.0	112.6	95.7	49.1	46.6
22+00	23+00	30.0	49.9	79.9		107.0	0.0	107.0	91.0	50.1	40.9
23+00	24+00	14.0	73.3	87.3	25.0	86.9	0.0	86.9	74.0	90.0	-16.0
24+00	24+32	18.0	31.1	49.1	25.0	29.1	0.0	29.1	24.8	38.1	-13.3
24+32	25+00	18.0	83.9	101.9	25.0	228.1	0.0	228.1	193.9	42.3	151.6
TOTALS		1,021	2,924	3,945	1,100	5,107	2,200	7,307	6,213	2,029	4,184

EARTHWORK SUMMARY

EARTH EXCAVATION	5,107 CU YD
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	3,945 CU YD
AGGREGATE SUBGRADE IMPROVEMENT	1,021 CU YD
FURNISHED EXCAVATION	0 CU YD

EARTHWORK NOTES:
 ASSUME 6 INCHES EXISTING TOPSOIL REMOVAL
 ASSUME 15% SHRINKAGE OF EARTH EXCAVATION TO BE REUSED AS EMBANKMENT



FOR CONTINUATION
SEE SHEET NO. 18

GREENWOOD ROAD

DESIGNED - CAC	REVISED - 12/23/13 PER IDOT
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH.AlignTies.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND TIES
WEST LAKE AVENUE**

SCALE: 1" = 50'
STA. 244+00 TO STA. 285+00

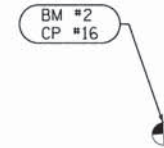
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
28A/214	07-00164-02-RS	COOK	87	17
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-40030861				

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WEST LAKE AVENUE

FOR CONTINUATION
SEE SHEET NO. 17

CL GREENWOOD ROAD STA 25+50.01
CL WEST LAKE AVENUE STA 271+73.16



BEGIN ROADWAY IMPROVEMENTS
GREENWOOD ROAD
STA 17+20.91



GREENWOOD ROAD



FOR CONTINUATION
SEE SHEET NO. 17

WEST LAKE AVENUE

BENCHMARKS

DATUM: NAVD88

- BM #1 SW FLANGE BOLT ON FIRE HYDRANT WEST OF DRIVEWAY FOR 3633 WEST LAKE AVE
EL 674.45
- BM #2 NW BONNET BOLT ON FIRE HYDRANT AT DRIVE TO ADDRESS 1746 GREENWOOD RD
EL 664.65

CONTROL POINTS

- CP #4 N 10088.487748 E 8285.322611 EL 671.579929
RR SPIKE IN 1ST POWER POLE EAST OF DRIVEWAY FOR 3600 WEST LAKE AVE BUSINESS ITW
- CP #5 N 10019.783931 E 7954.909024 EL 674.450395
SW FLANGE BOLT ON FIRE HYDRANT WEST OF DRIVEWAY FOR 3633 WEST LAKE AVE
- CP #19 N 10016.453743 E 7616.984716 EL 677.517001
GLENVIEW ALUM CAP MONUMENT 19 IN FRONT OF 3701 WEST LAKE AVE 3633 WEST LAKE AVE
- CP #7 N 10083.259797 E 8834.522722 EL 672.345283,
RR SPIKE IN 1ST POWER POLE EAST OF RR N PARKWAY WEST LAKE AVE
- CP #8 N 10020.137811 E 9413.925993 EL 666.420282
RR SPIKE IN POWER POLE AT SE CORNER OF WEST LAKE AVE AND ELMDALE AVE
- CP #13 N 10082.897103 E 10048.972169 EL 662.832933
RR SPIKE IN POWER POLE ON N SIDE OF WEST LAKE AVE AT GREENWOOD RD
- CP #14 N 10078.861919 E 10708.359023 EL 657.055512
RR SPIKE IN POWER POLE ON N SIDE OF WEST LAKE AVE AT PICKWICK LN SOUTH
- CP #16 N 9739.215500 E 10012.710708 EL 664.656712
NW BONNET BOLT ON FIRE HYDRANT AT DRIVE TO 1746 GREENWOOD RD

1 Describe Chain PRWLAK

Chain PRWLAK contains:
WL1 WL2 WL3

Beginning chain PRWLAK description

Point WL1	N	10,057.01	E	7,274.38	Sta	244+00
Course from WL1 to WL2 S 89° 57' 33" E Dist 780.00						
Point WL2	N	10,056.45	E	8,054.38	Sta	251+00
Course from WL2 to WL3 S 89° 49' 03" E Dist 3,322.71						
Point WL3	N	10,045.87	E	11,377.08	Sta	285+03

Ending chain PRWLAK description

2 Describe Chain PRGREENWOOD

Chain PRGREENWOOD contains:
G1 G2

Beginning chain PRGREENWOOD description

Point G1	N	8,500.10	E	10,042.60	Sta	10+00
Course from G1 to G2 N 0° 10' 57" E Dist 1,550.01						
Point G2	N	10,050.10	E	10,047.53	Sta	25+50

Ending chain PRGREENWOOD description

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 PROJECT: 120011-34-SH-AlignTies.shp
 DATE: 12/9/13
 TIME: 2:50:33 PM



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-AlignTies.shp

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

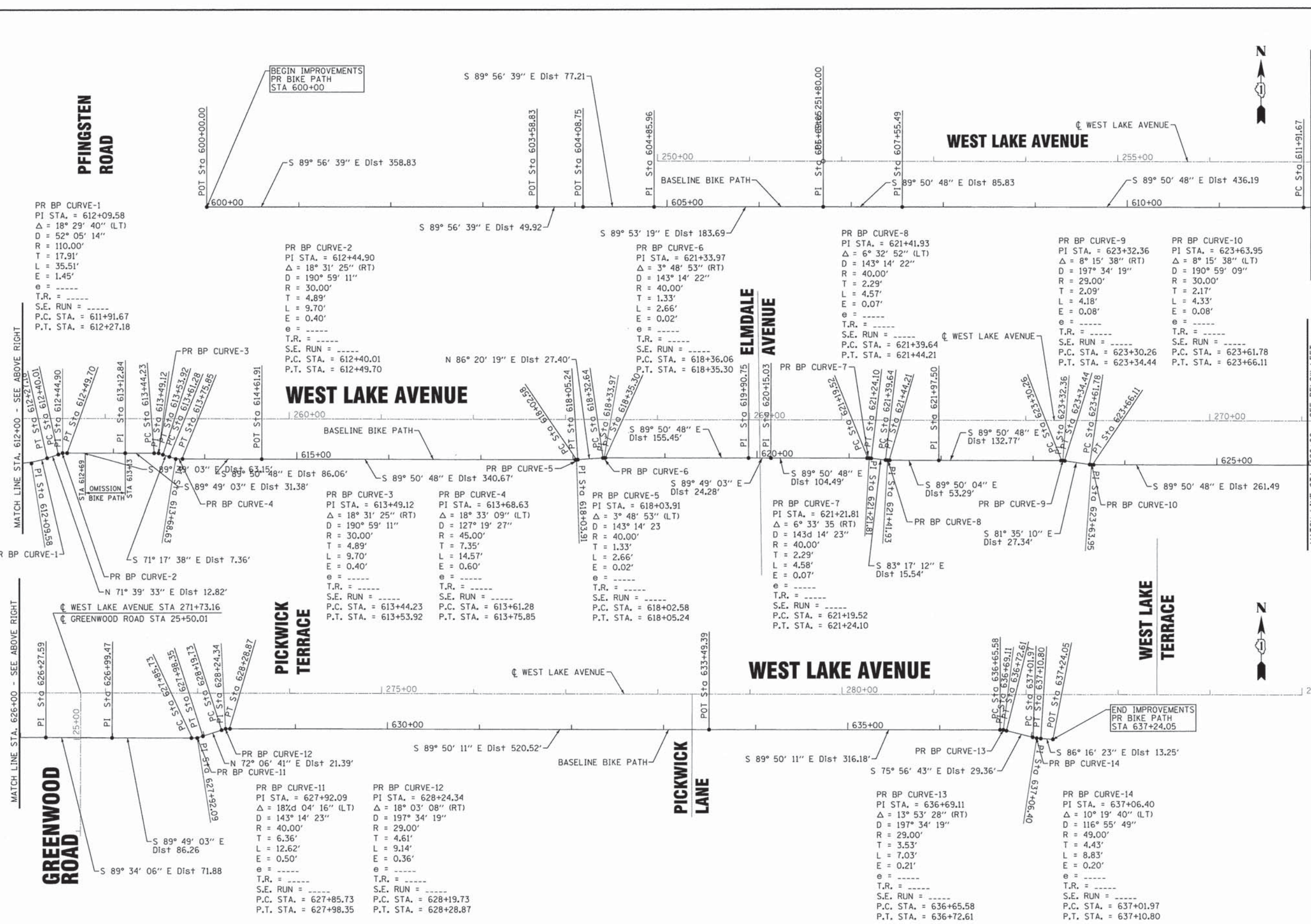
ALIGNMENT AND TIES GREENWOOD ROAD

SCALE: 1" = 50'

STA. 13+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2743	07-00164-02-R5	COOK	87	18
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

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DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-AlignTies.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

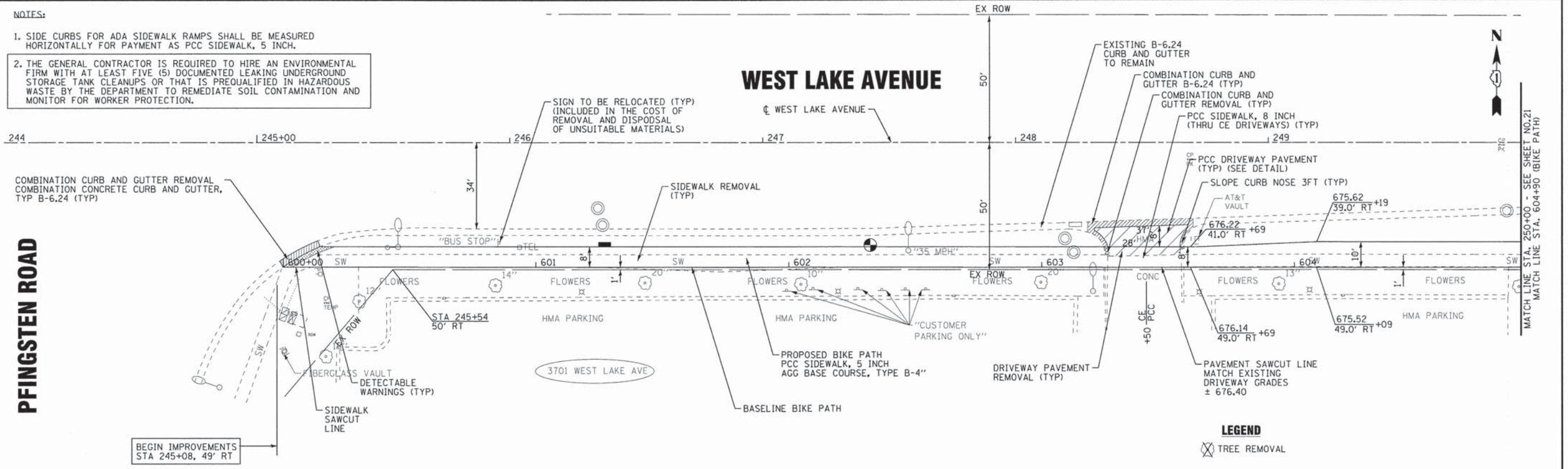
ALIGNMENT AND TIES
PROPOSED BIKE PATH

SCALE: 1" = 50'
 STA. 600+00 TO STA. 637+24.05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	19
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(086)				

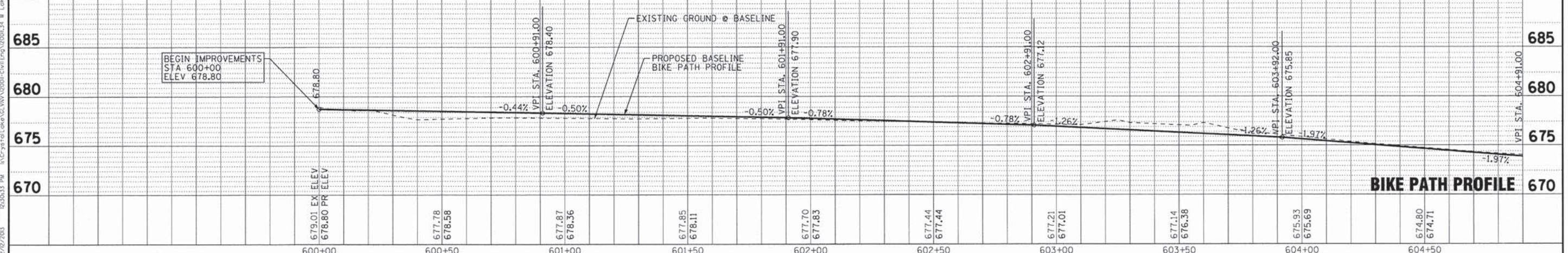
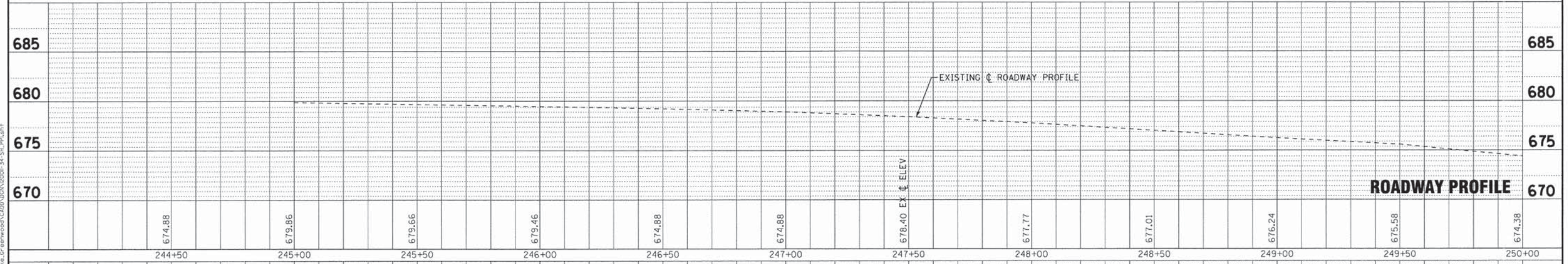
NOTES:

- SIDE CURBS FOR ADA SIDEWALK RAMPS SHALL BE MEASURED HORIZONTALLY FOR PAYMENT AS PCC SIDEWALK, 5 INCH.
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



PFINGSTEN ROAD

LEGEND
 TREE REMOVAL



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-PP1.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN AND PROFILE
WEST LAKE AVENUE**

SCALE: H: 1"=20' V: 1"=5'
 STA. 245+00 TO STA. 250+00

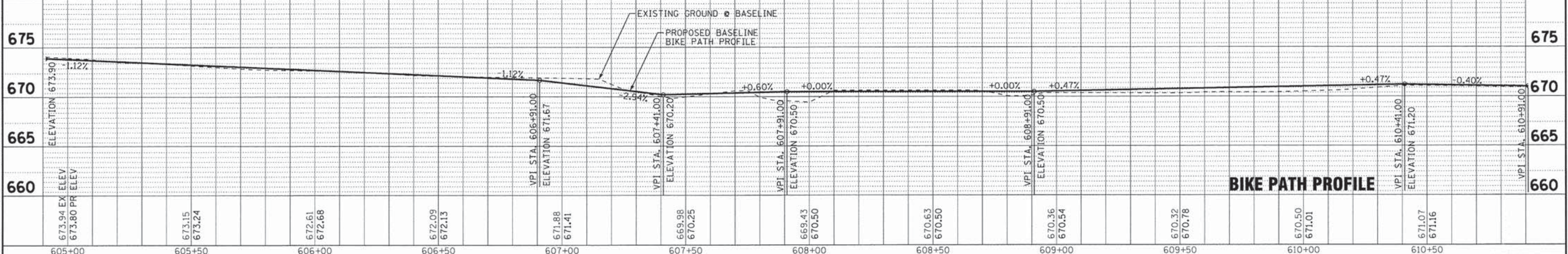
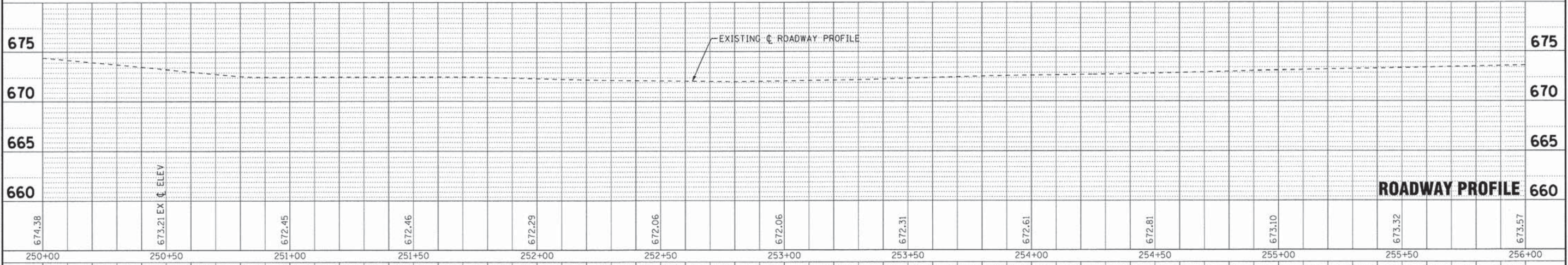
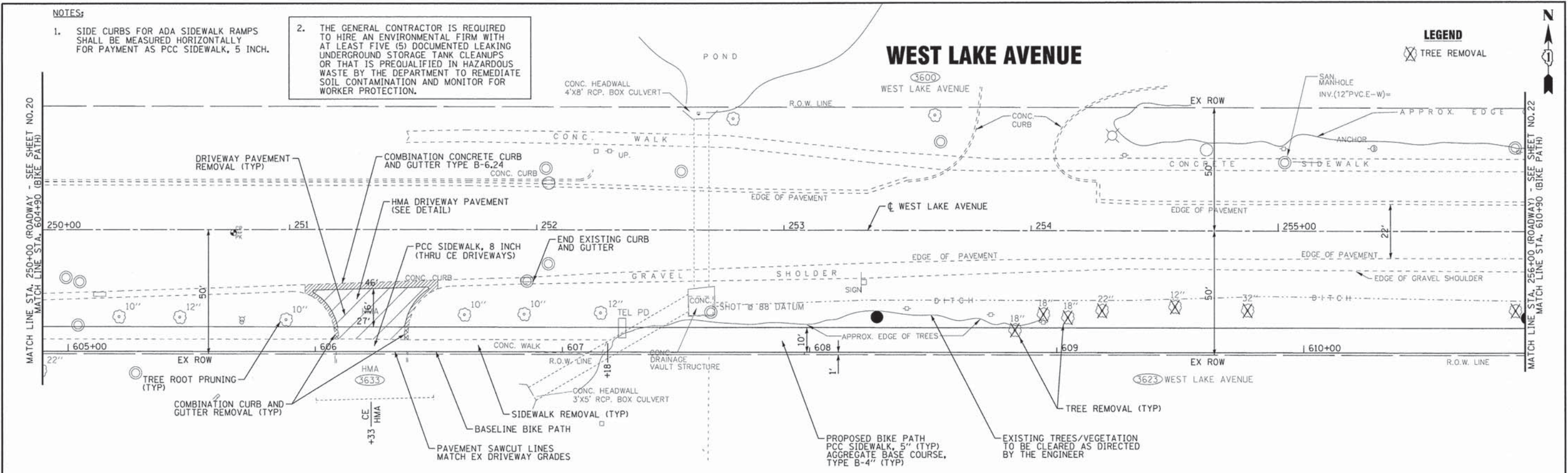
F.A.U. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 20
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

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 PROJECT NO. 120011-34-SH-PP1.shx
 DATE: 12/9/13

NOTES:

- SIDE CURBS FOR ADA SIDEWALK RAMP SHALL BE MEASURED HORIZONTALLY FOR PAYMENT AS PCC SIDEWALK, 5 INCH.
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

LEGEND
 TREE REMOVAL



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH.PP2.sht

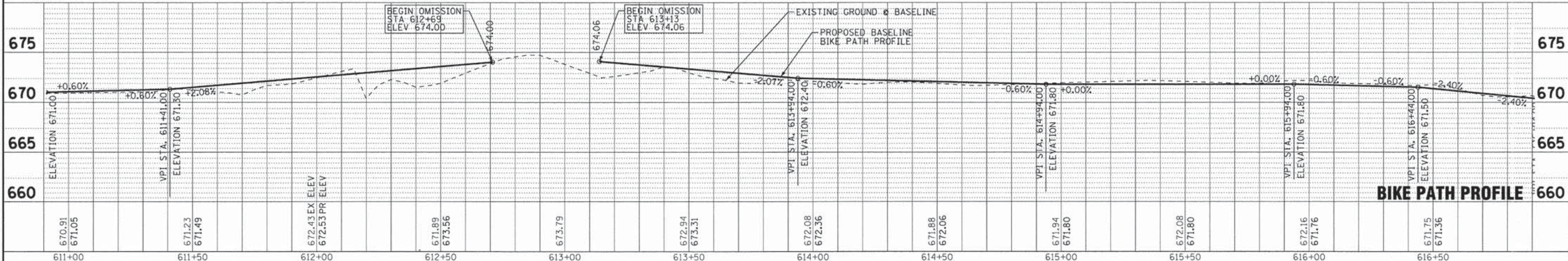
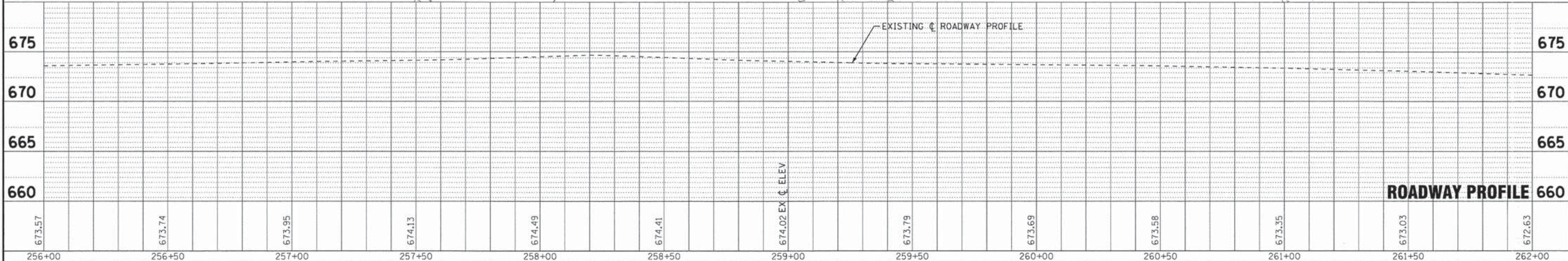
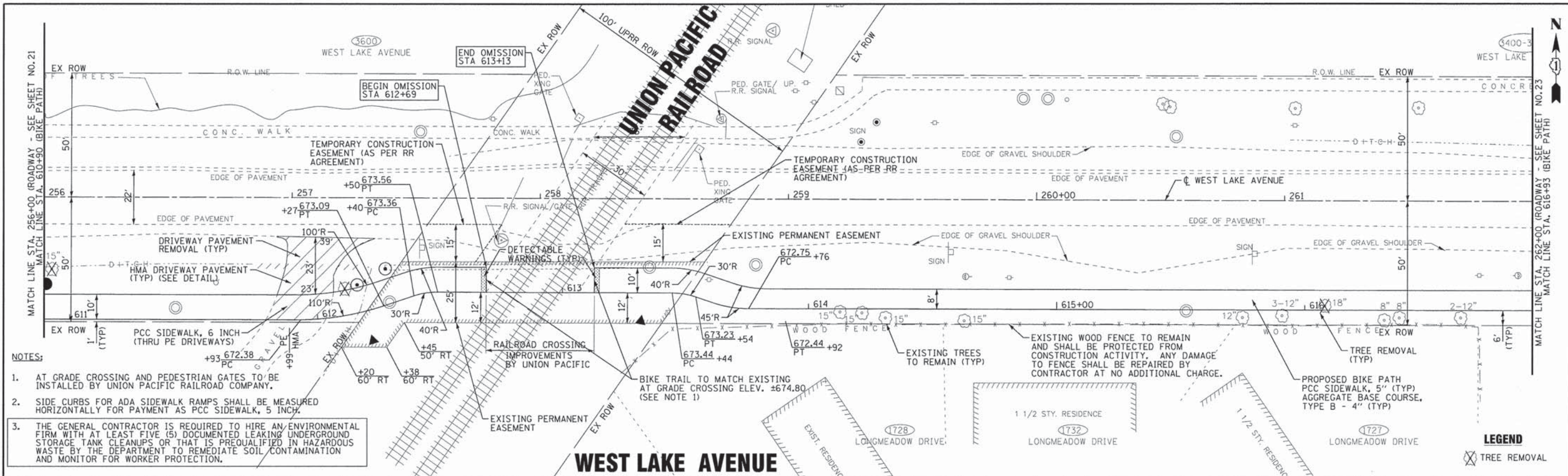
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**GEOMETRIC PLAN AND PROFILE
 WEST LAKE AVENUE**

SCALE: Ht 1"=20' Vs 1"=5'
 STA. 250+00 TO STA. 256+00

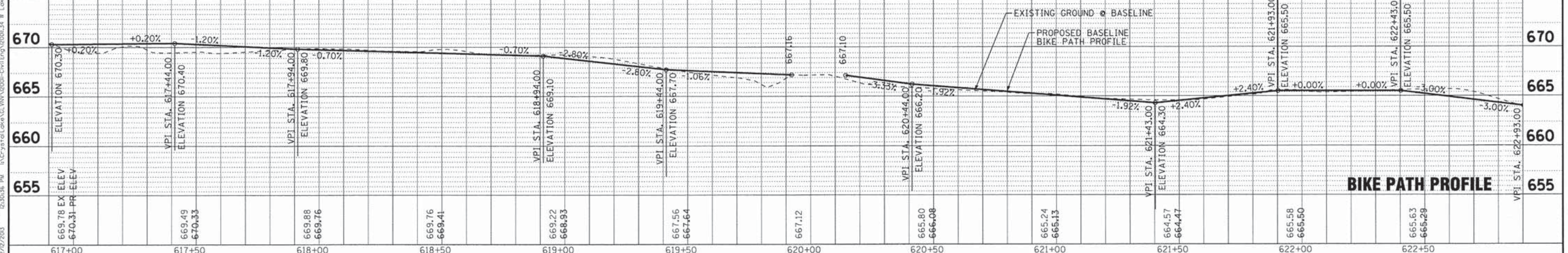
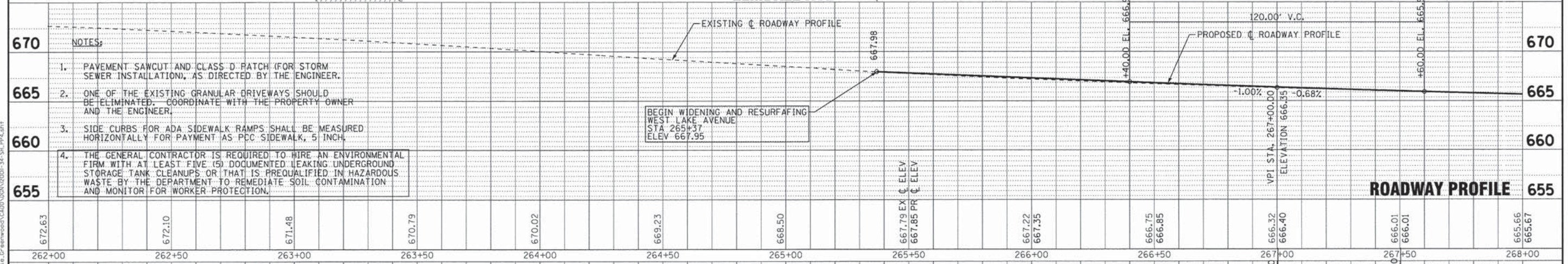
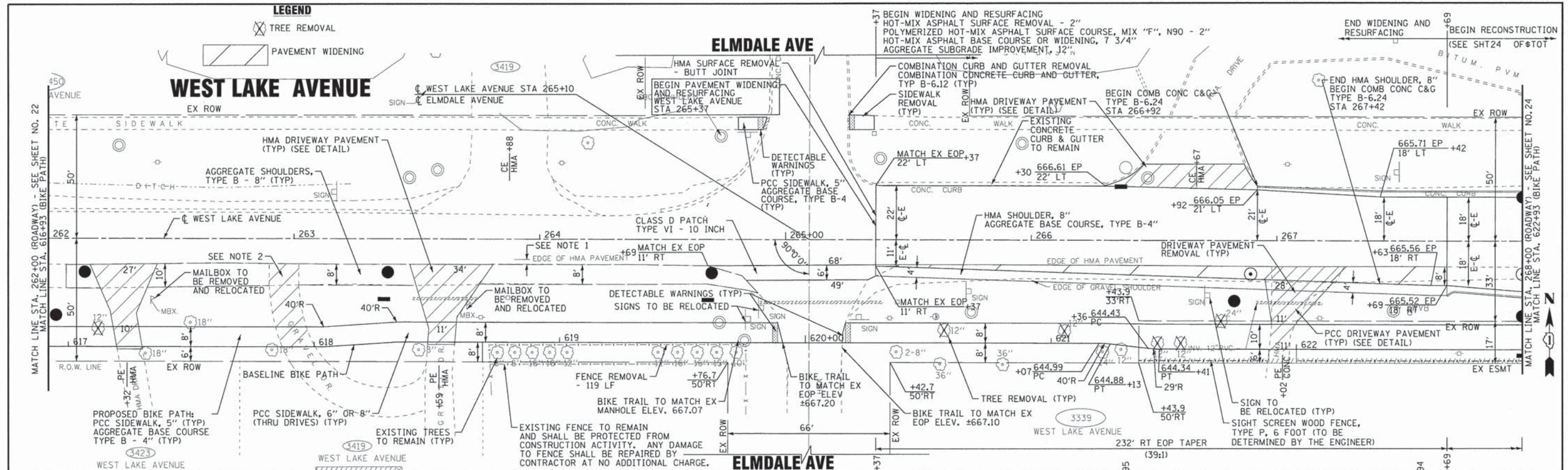
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C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030867				

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	DESIGNED - CAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOMETRIC PLAN AND PROFILE WEST LAKE AVENUE		F.A.U. RTE. 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 22
	DRAWN - CJC	REVISED -		SCALE: H _z 1"=20' V _v 1"=5'		SECTION C-91-028-13	CONTRACT NO. 63878		
	CHECKED - TLH	REVISED -		STA. 256+00 TO STA. 262+00		FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT M-400310861	
	DATE - 12/9/13	FILE - 120011-34-SH-PP3.shx							

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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-PP4.shx

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

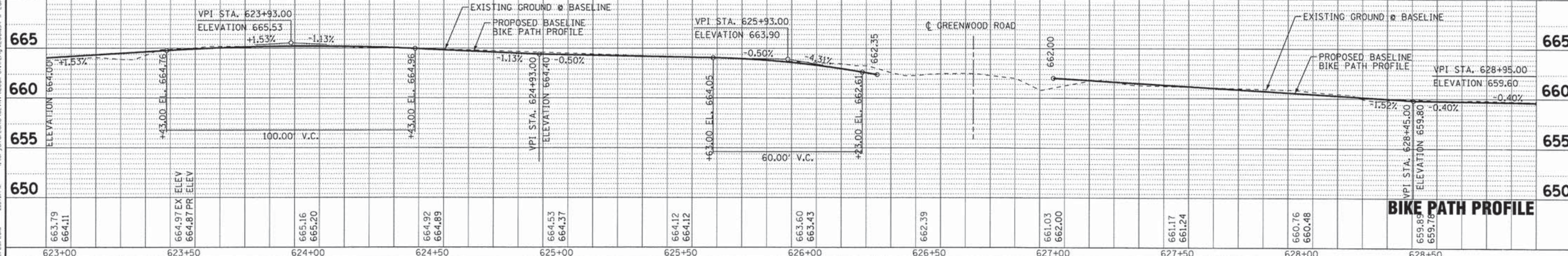
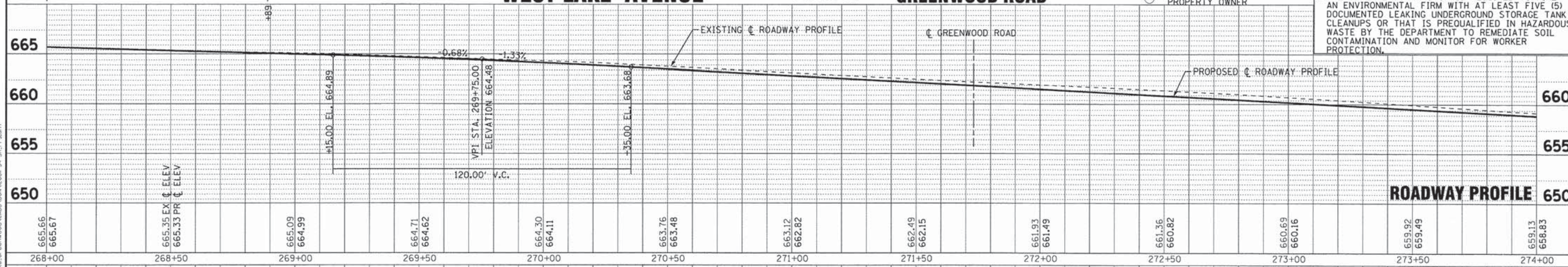
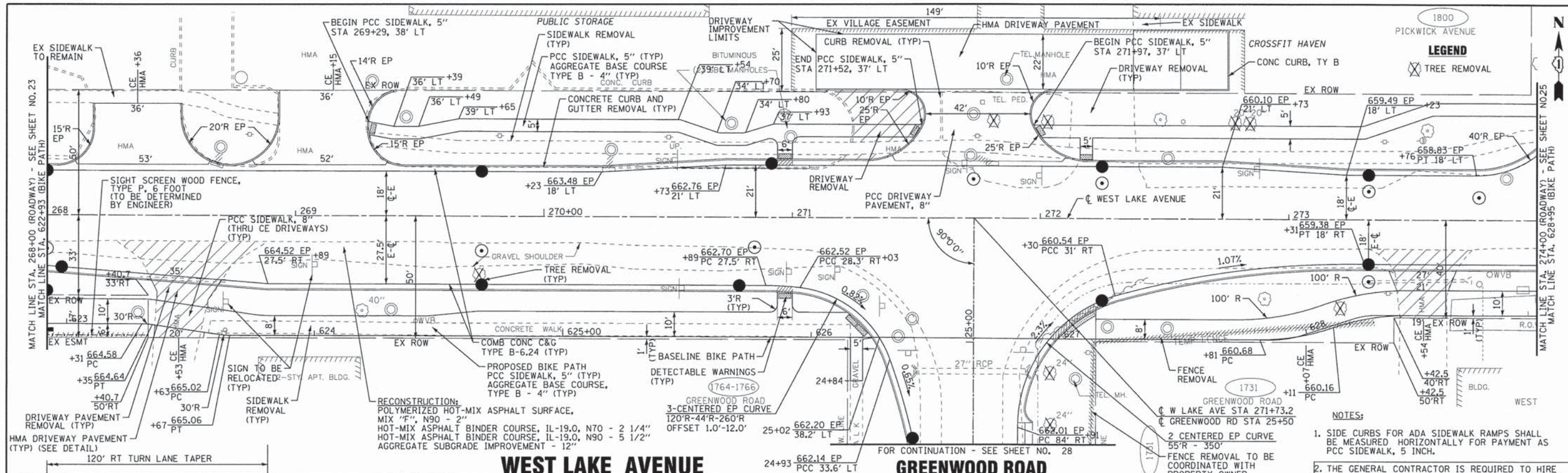
GEOMETRIC PLAN AND PROFILE
WEST LAKE AVENUE

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

STA. 262+00 TO STA. 268+00

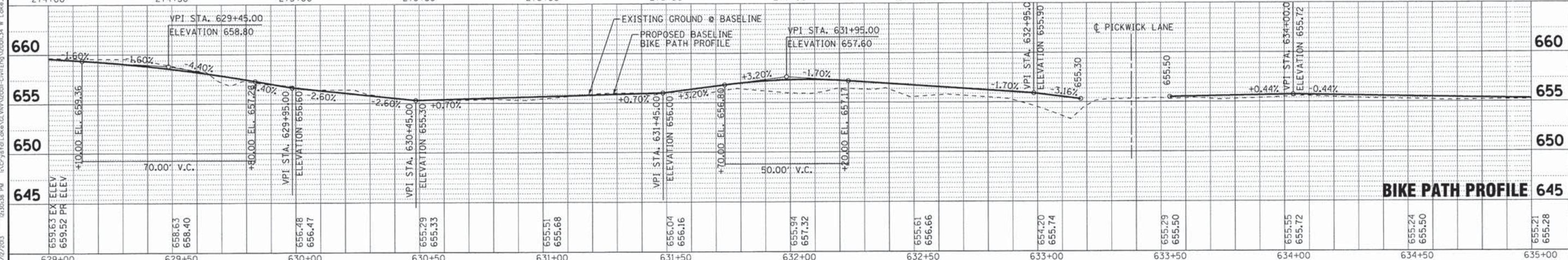
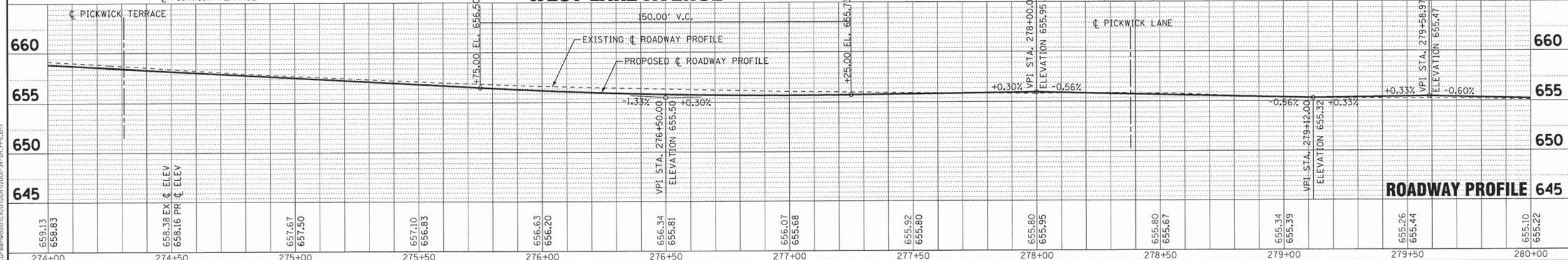
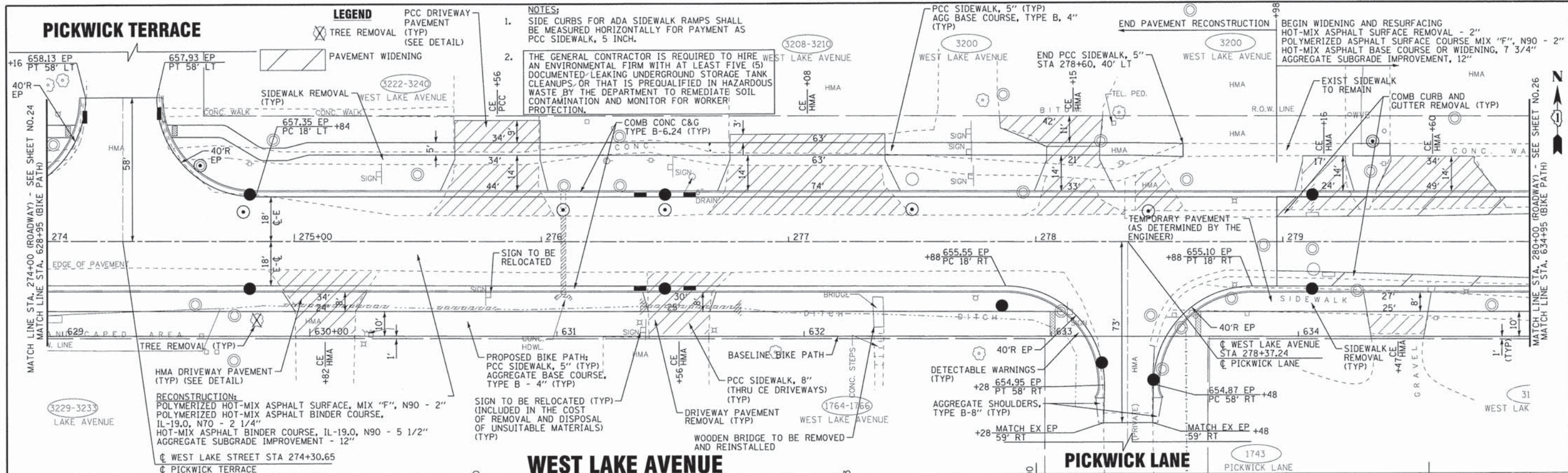
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C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

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	DESIGNED - CAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOMETRIC PLAN AND PROFILE WEST LAKE AVENUE		F.A.U. R.T.E. 1284/2743	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 24
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	CHECKED - TLH	REVISED -				FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT M-40031086		
	DATE - 12/9/13	FILE - 120011-34-SH.PP5.sht				SCALE: H: 1"=20' V: 1"=5'		STA. 268+00 TO STA. 274+00		

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DATE - 12/9/13	FILE - 120011-34-SH_PP6.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

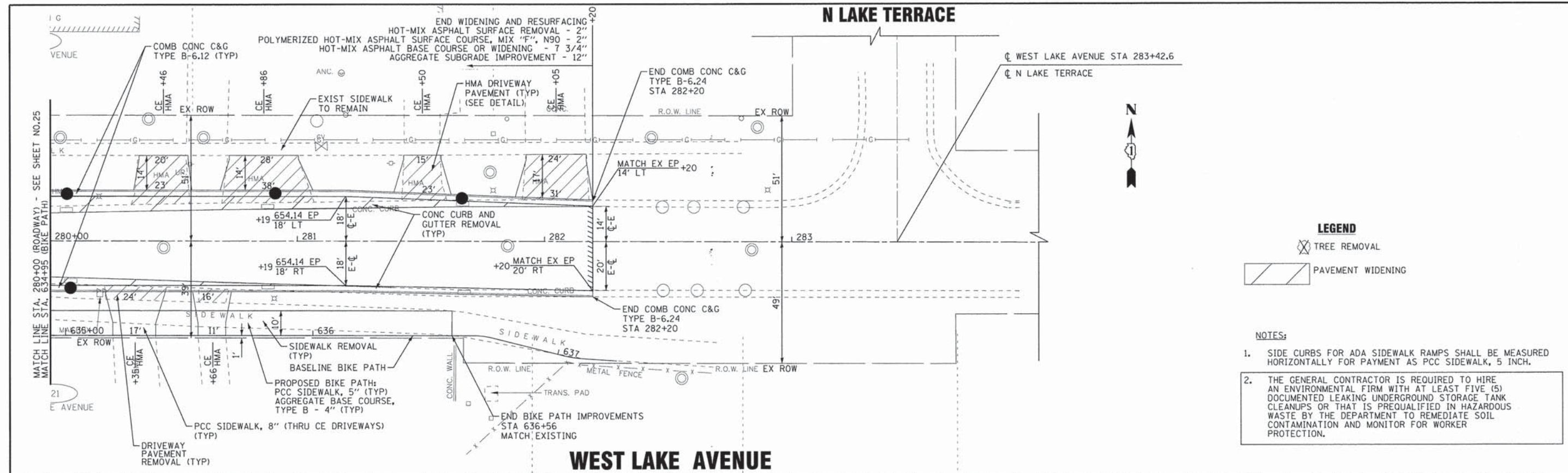
**GEOMETRIC PLAN AND PROFILE
WEST LAKE AVENUE**

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

STA. 274+00 TO STA. 280+00

F.A.U. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 25
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

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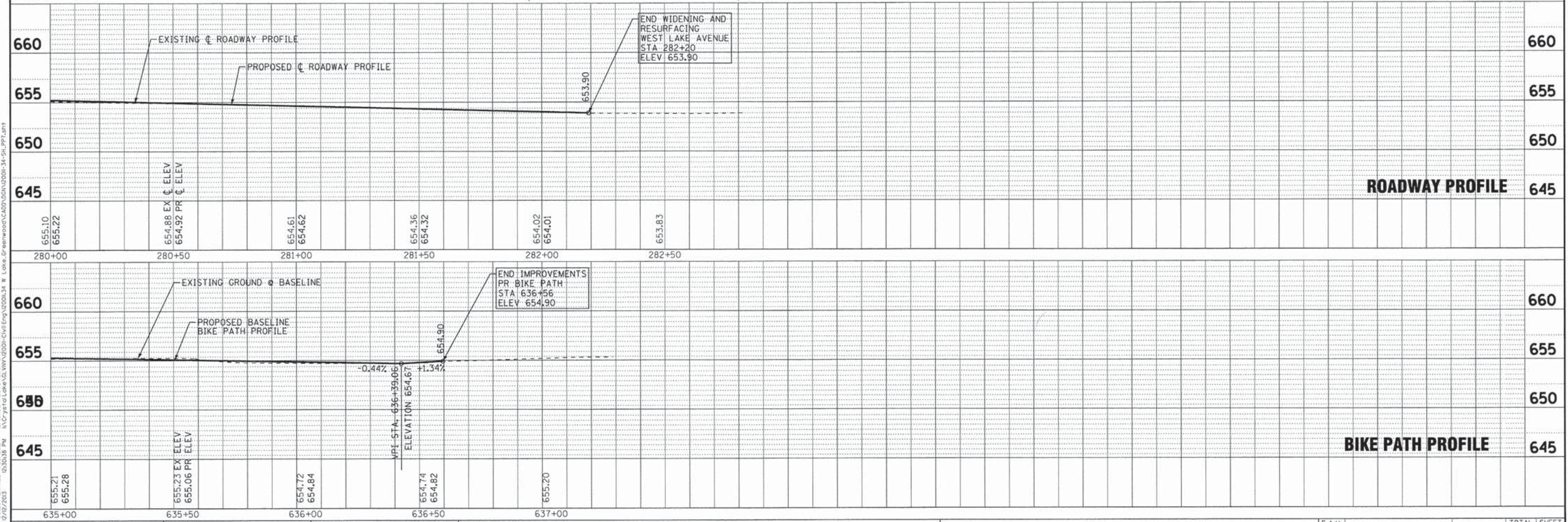


LEGEND

- TREE REMOVAL
- PAVEMENT WIDENING

NOTES:

1. SIDE CURBS FOR ADA SIDEWALK RAMPS SHALL BE MEASURED HORIZONTALLY FOR PAYMENT AS PCC SIDEWALK, 5 INCH.
2. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



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DATE - 12/9/13	FILE - 120011-34-SH-PP7.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOMETRIC PLAN AND PROFILE
WEST LAKE AVENUE

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

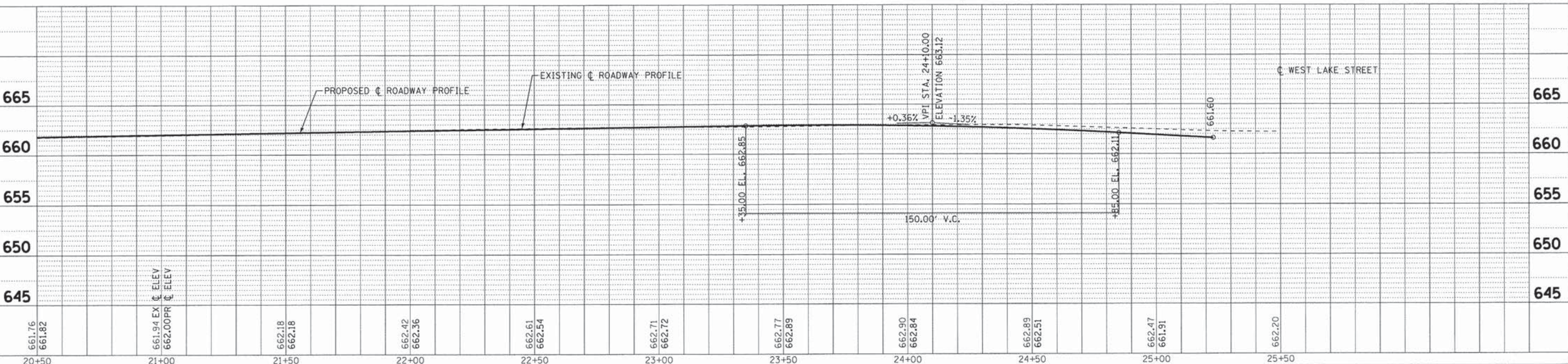
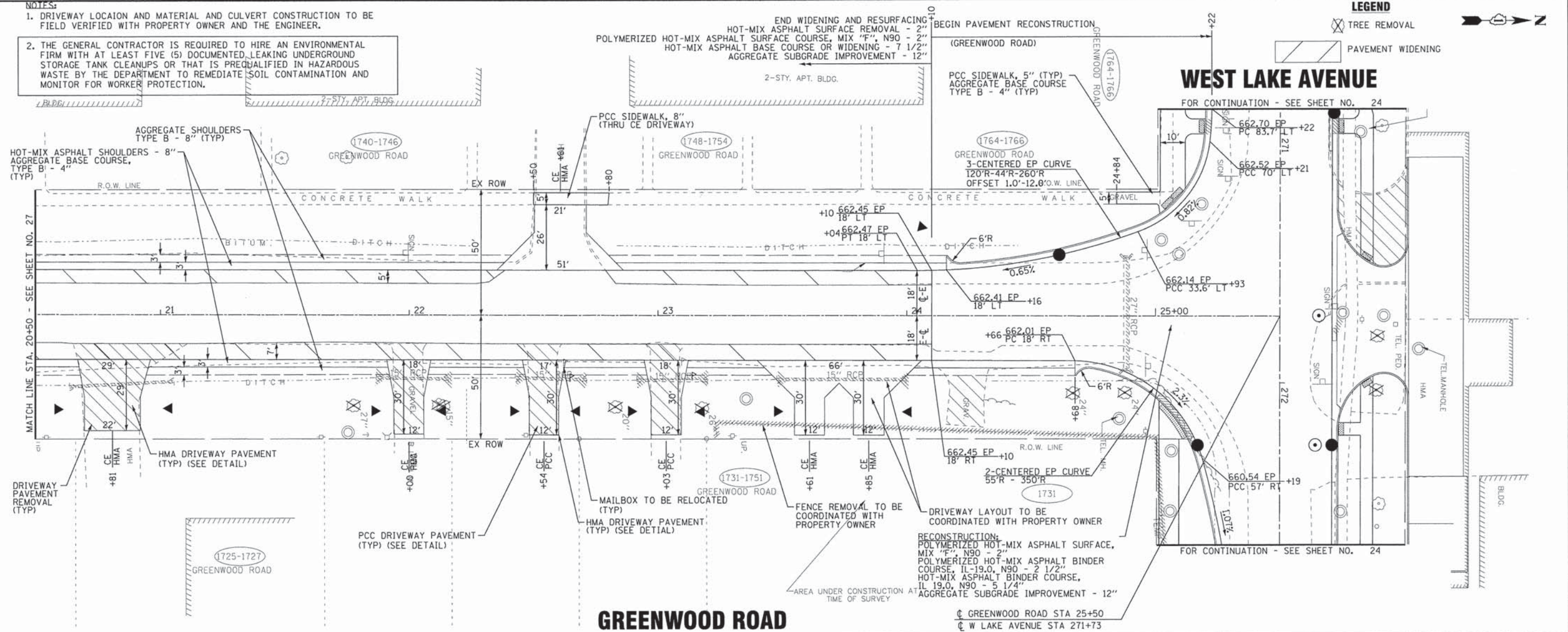
STA. 280+00 TO STA. 284+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	26
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030661				

- NOTES:**
- DRIVEWAY LOCATION AND MATERIAL AND CULVERT CONSTRUCTION TO BE FIELD VERIFIED WITH PROPERTY OWNER AND THE ENGINEER.
 - THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

LEGEND

- TREE REMOVAL
- PAVEMENT WIDENING



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DRAWN - CJC	REVISIONS		1284/2143	07-00164-02-RS	COOK	87	28
CHECKED - TLH	REVISIONS		C-91-028-13	CONTRACT NO. 63878			
DATE - 12/9/13	FILE - 120011-34-SH_PP9.shp		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

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MAINTENANCE OF TRAFFIC NOTES

- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT EMERGENCY SERVICES.
- DAYTIME LANE CLOSURES ON WEST LAKE AVENUE SHALL ONLY BE ALLOWED BETWEEN THE HOURS OF 9AM AND 3PM AND MUST LEAVE AT LEAST ONE 10' MIN. WIDTH LANE OPEN IN EACH DIRECTION AT ALL TIMES. AT LEAST TWO 10' MIN. WIDTH LANES SHALL REMAIN OPEN TO TRAFFIC IN EACH DIRECTION ALL OTHER TIMES.
- ALL LANES SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY, MAINTAINING A MINIMUM 10' WIDTH PER LANE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS AND SIDE ROADS DURING CONSTRUCTION, UTILIZING PAY ITEMS TEMPORARY ACCESS (ROAD) AND TEMPORARY ACCESS (COMMERCIAL ENTRANCE).
- ALL COMMERCIAL PROPERTIES SHALL BE PROVIDED AT LEAST ONE INGRESS AND ONE EGRESS EITHER ON THE MAINLINE OR A SIDE STREET AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES/MODIFICATIONS WITH THE LOCAL BUSINESSES AND THE ENGINEER. COMMERCIAL DRIVEWAYS WHICH CANNOT BE CLOSED, AS DETERMINED BY THE ENGINEER, SHALL BE CONSTRUCTED IN STAGES OR WILL BE CONSTRUCTED WHEN BUSINESSES ARE NOT OPEN USING HIGH EARLY STRENGTH CONCRETE.
- ALL DRUMS AND VERTICAL PANELS SHALL BE EQUIPPED WITH STEADY BURN MONO-DIRECTIONAL LIGHTS. SPACING SHALL BE AT 50 FOOT INTERVALS ALONG WORK AREAS AND 25 FEET WHERE DIRECTION CHANGES AND TAPERS OCCUR, OR AS DIRECTED BY THE ENGINEER.
- DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS.
- CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN IDOT OR VILLAGE RIGHT-OF-WAY ADJACENT TO OR IN FRONT OF COMMERCIAL BUSINESS PROPERTIES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING LOCATIONS AT THE START OF CONSTRUCTION.

SUGGESTED SEQUENCE OF CONSTRUCTION - WEST LAKE AVENUE

PRIOR TO STAGE 1

- ESTABLISH TRAFFIC CONTROL AND EROSION CONTROL MEASURES
- ESTABLISH TRAFFIC CONTROL DETOUR ROUTE
- COMPLETE TREE REMOVALS/PRUNING

STAGE 1A

- DURING ALLOWABLE DAYTIME HOURS, CLOSE ONE THRU LANE IN ACCORDANCE WITH HIGHWAY STANDARDS, MAINTAINING TWO WAY TRAFFIC WITH FLAGGERS.
- REMOVE STREET LIGHTS TO BE RELOCATED AND CURB AND GUTTER AS DETERMINED BY THE ENGINEER. INSTALL TEMPORARY PAVEMENT AS DETERMINED BY THE ENGINEER TO MAINTAIN TRAFFIC AROUND THE CONSTRUCTION WORK ZONE.
- INSTALL REQUIRED UNDERGROUND UTILITIES, INCLUDING STORM SEWER AND WATER MAIN WORK AND PAVEMENT PATCHING.

STAGE 1B

- MAINTAIN ONE THRU LANE OF TRAFFIC IN EACH DIRECTION.
- AS APPROVED BY THE ENGINEER, CLOSE ONE THRU LANE IN ACCORDANCE WITH HIGHWAY STANDARDS, MAINTAINING TWO WAY TRAFFIC WITH FLAGGERS
- INSTALL REQUIRED UNDERGROUND UTILITIES, INCLUDING STORM SEWER AND WATER MAIN WORK AND PAVEMENT PATCHING.

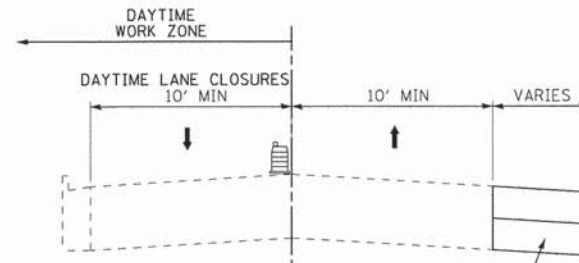
STAGE 2

- DURING ALLOWABLE DAYTIME HOURS, CLOSE ONE THRU LANE IN ACCORDANCE WITH HIGHWAY STANDARDS, MAINTAINING TWO WAY TRAFFIC WITH FLAGGERS.
- SAWCUT PAVEMENT REMOVAL LIMITS
- COMPLETE PAVEMENT REMOVAL AND EXCAVATION OPERATIONS FOR WIDENING AND RECONSTRUCTION AND INSTALL AGGREGATE SUBBASE, PROVIDING TEMPORARY ACCESS TO DRIVEWAYS BY THE END OF EACH DAY.

PAVEMENT REMOVAL SHALL BE LIMITED EACH DAY SO THAT AGGREGATE BASE COURSE SHALL BE INSTALLED ON THE SAME WORKING DAY AS THE LIMITS OF PAVEMENT REMOVED. TWO THRU LANES FOR TWO WAY TRAFFIC AND ACCESS TO DRIVEWAYS SHALL BE PROVIDED AT THE END OF EACH WORKING DAY.
- INSTALL PROPOSED CURB AND GUTTER AND BEGIN CONSTRUCTING PROPOSED DRIVEWAYS.
- INSTALL PROPOSED HMA AND CONCRETE BASE COURSE (GAPPING DRIVEWAYS AS REQUIRED).
- INSTALL PCC BIKE TRAIL.
- BEGIN COMPLETING SIDEWALK, DRIVEWAYS, AND PARKWAY GRADING.
- SWITCH OPERATIONS TO THE OTHER SIDE AND REPEAT STEPS 1-5 AND 7.

STAGE 3

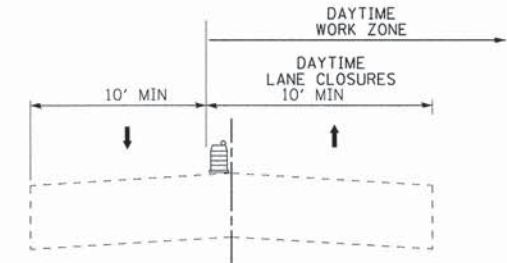
- COMPLETE PAVEMENT MILLING AND LEVELING BINDER. UTILIZE TEMPORARY PAVEMENT MARKING FOR LANE CONTROL.
- COMPLETE TOPSOIL INSTALLATION
- COMPLETE STREET LIGHT RELOCATIONS AND PERMANENT TRAFFIC SIGNAL INSTALLATION.
- COMPLETE HMA SURFACE COURSE, FINAL LANDSCAPING, PAVEMENT MARKINGS AND PUNCHLIST ITEMS.



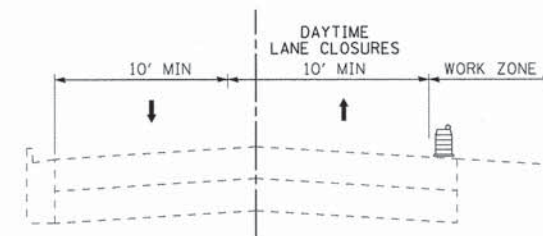
INSTALL TEMPORARY PAVEMENT AS DETERMINED BY THE ENGINEER

**WEST LAKE AVENUE
STAGE 1A**

STA 271+73 TO STA 282+19

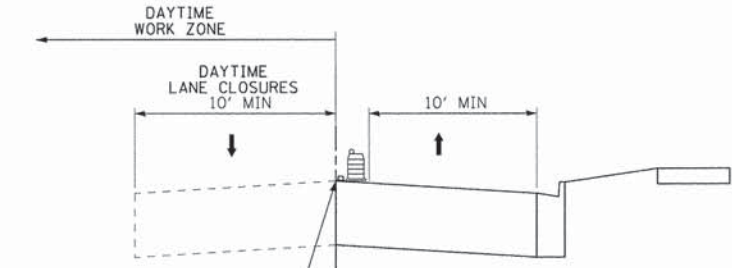


**WEST LAKE AVENUE
GREENWOOD ROAD
STAGE 2A**



**WEST LAKE AVENUE
STAGE 1B**

STA 245+08 TO STA 271+73



TEMPORARY PAVEMENT MARKING LINE, 4" DOUBLE YELLOW

**WEST LAKE AVENUE
STAGE 2B**

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DATE - 12/9/13	FILE - 120011-34-SH.MOT.shp

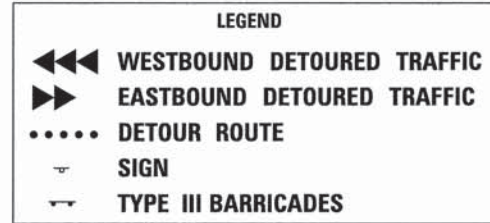
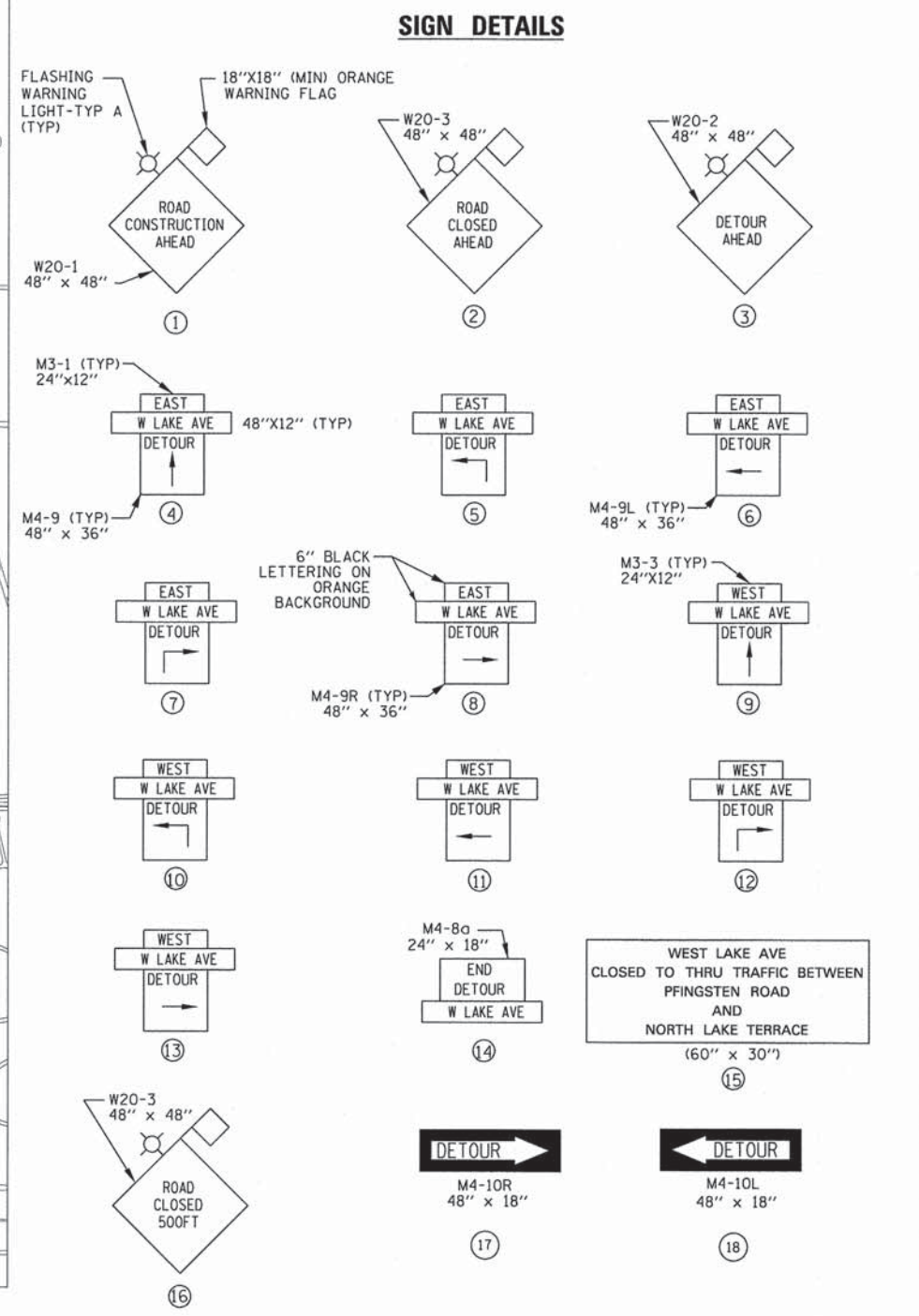
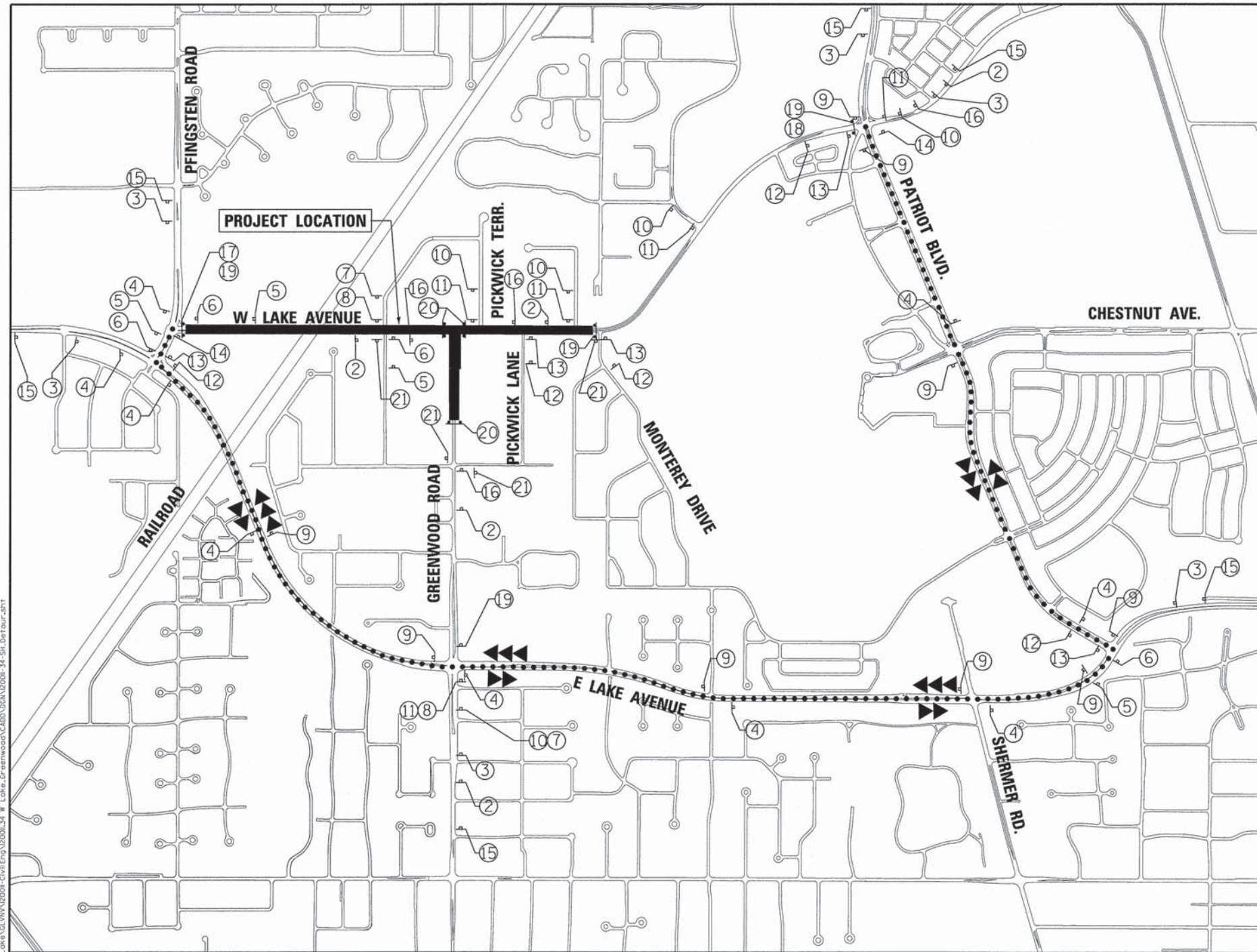
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED MAINTENANCE OF TRAFFIC

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	29
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



DETOUR ROUTE NOTES:

1. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL APPLICABLE TRAFFIC CONTROL DEVICES ALONG THE DETOUR ROUTE AS DETERMINED BY THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL AND PROTECTION (SPECIAL).
2. THE CONTRACTOR SHALL SUBMIT A DETOUR ROUTE SIGNAGE PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF THE DETOUR ROUTE.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED FOR DETOUR ROUTE INSTALLATION. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. EMERGENCY VEHICLE ACCESS AND LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT SCHOOL BUS OR EMERGENCY SERVICES.
5. ALL LANES ON WEST LAKE AVENUE AND GREENWOOD ROAD SHALL BE OPEN TO 2 WAY TRAFFIC AT THE END OF EACH DAY, MAINTAINING A MINIMUM 10' WIDTH PER LANE.
6. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

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DATE - 12/9/13	FILE - 120011-34-SH-Detour.sht

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

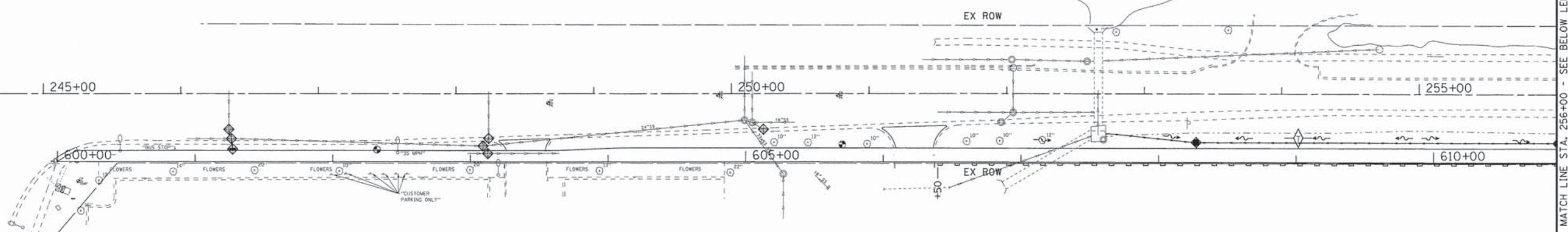
SCALE: NONE STA. TO STA.

F.A.U. RTE. 128A/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 30
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT W-400310661		



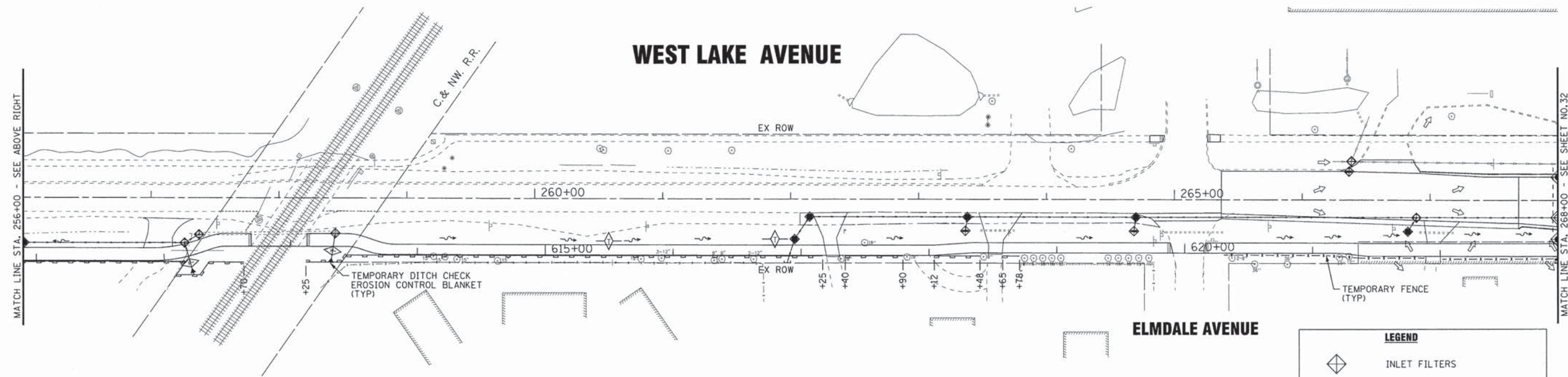
PFGINGSTEN ROAD

WEST LAKE AVENUE



MATCH LINE STA. 256+00 - SEE BELOW LEFT

WEST LAKE AVENUE



MATCH LINE STA. 256+00 - SEE ABOVE RIGHT

MATCH LINE STA. 268+00 - SEE SHEET NO.32

ELMDALE AVENUE

LEGEND			
	INLET FILTERS		
	PERIMETER EROSION BARRIER		
	TEMPORARY FENCE		
	TEMPORARY DITCH CHECKS		

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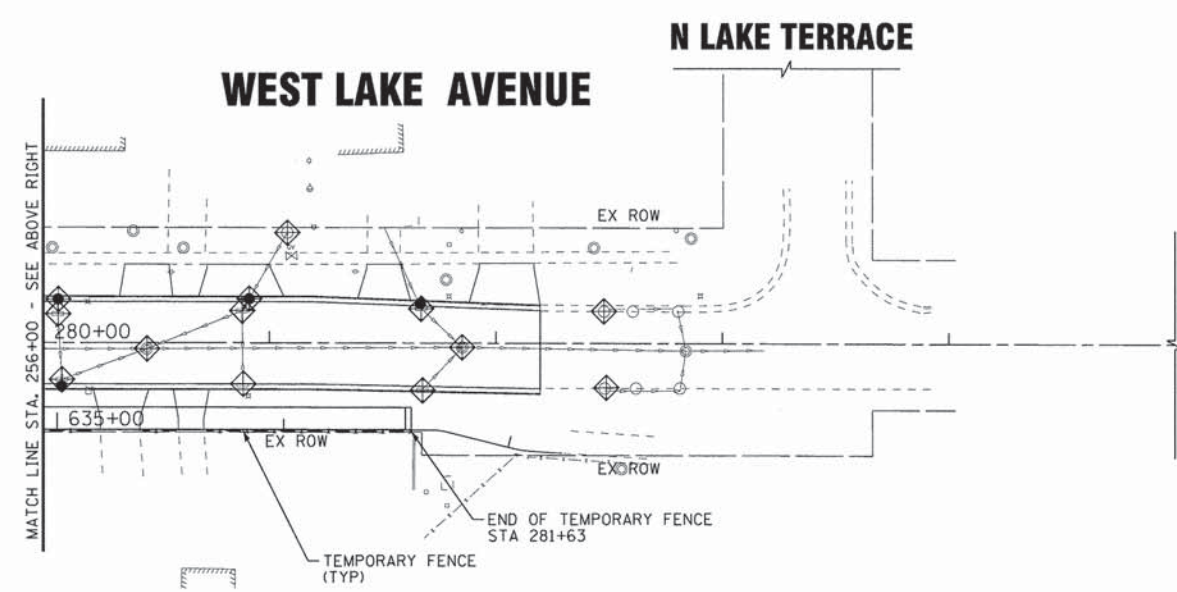
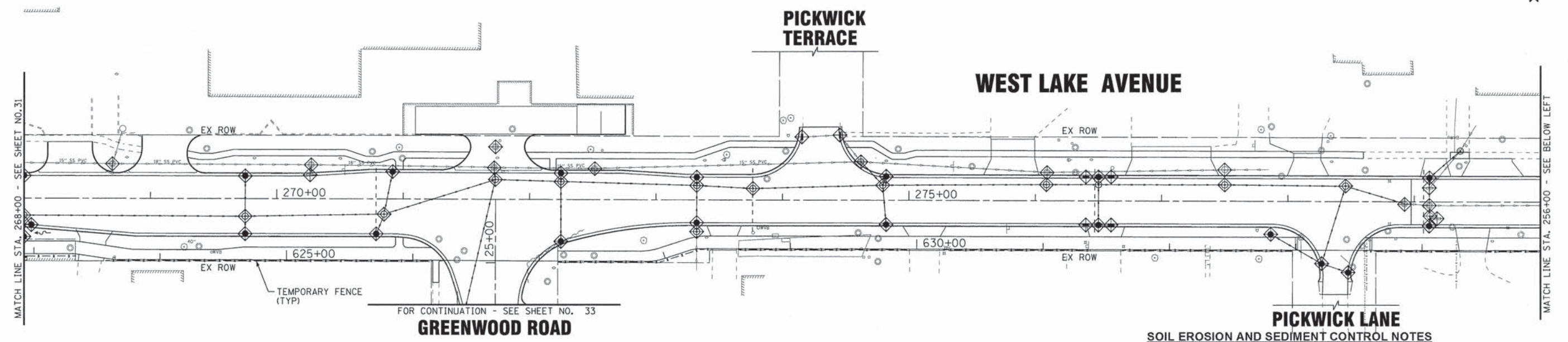
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DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND SEDIMENT PLAN -
WEST LAKE AVENUE**

SCALE: 1" = 40'

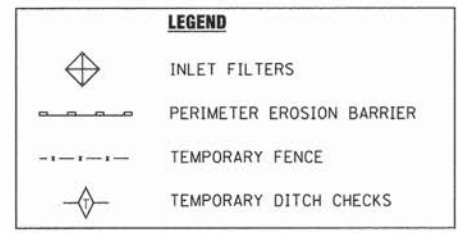
STA. 244+00 TO STA. 268+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-RS	COOK	87	31
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT N-40030863				



SOIL EROSION AND SEDIMENT CONTROL NOTES

- A. ALL AREAS LOCATED DOWNSTREAM FROM DISTURBED AREAS OF CONSTRUCTION SHALL BE PROTECTED FROM POTENTIAL INCREASE OF EROSION AND SEDIMENTATION RESULTING FROM UPSTREAM ACTIVITIES.
- B. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF CONSTRUCTION SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SODDING IS PERFORMED.
- C. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO THE START OF DISTURBANCE.
- D. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED; BUT IN NO CASE SHALL THESE MEASURES BE INSTALLED MORE THAN 7 DAYS AFTER THE CONSTRUCTION IN THIS AREA TEMPORARILY OR PERMANENTLY CEASES.
- E. ALL STORM SEWER STRUCTURES THAT RECEIVE RUNOFF DURING CONSTRUCTION SHALL INCLUDE INLET PROTECTION FILTERS TO PREVENT DEBRIS AND EXCESSIVE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM. THESE PROTECTIVE MEASURES SHALL BE PROPERLY INSTALLED, MAINTAINED, AND REMOVED IN THEIR ENTIRETY AFTER THE AREA TRIBUTARY TO THE STORM STRUCTURE IS STABILIZED.
- F. DISCHARGES FROM DEWATERING OPERATIONS SHALL ENTER OR BE ROUTED TO A SEDIMENT AND EROSION CONTROL SYSTEM OR DEVICE.
- G. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED.
- H. REPAIR, REPLACE OR MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES AFTER A RAINFALL EVENT OF 1/2 INCH OR MORE OVER A 24-HOUR PERIOD AND ON A BI-WEEKLY BASIS AS A MINIMUM.
- I. MAKE ADJUSTMENTS TO THE SEDIMENTATION AND EROSION CONTROL PLAN AND METHODS, AS NEEDED, TO ACCOMPLISH THE INTENDED PURPOSE.
- J. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY OR AS DETERMINED BY THE ENGINEER.
- K. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL AND/OR DEBRIS UPON OR INTO ANY CHANNEL, DITCH, SWALE OR ANY OTHER TEMPORARY OR PERMENT LOCATIONS MEANT TO CONVEY SITE DRAINAGE.
- L. IF THE CONTRACTOR IS NOTIFIED BY THE ENGINEER OF AN EROSION AND SEDIMENT CONTROL DEFICIENCY, THE DEFECIENCY MUST BE CORRECTED WITHIN 24-HOURS OF BEING NOTIFIED.



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 PROJECT: 120011-34-SH-ER2.sht
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 CHECKED: TLH
 DATE: 12/9/13
 LICENSE NO.: 184-000201 - EXPIRES 4/30/2015
 48616



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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
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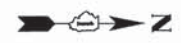
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN -
WEST LAKE AVENUE**

SCALE: 1" = 40'

STA. 268+00 TO STA. 285+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-RS	COOK	87	32
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40030861				



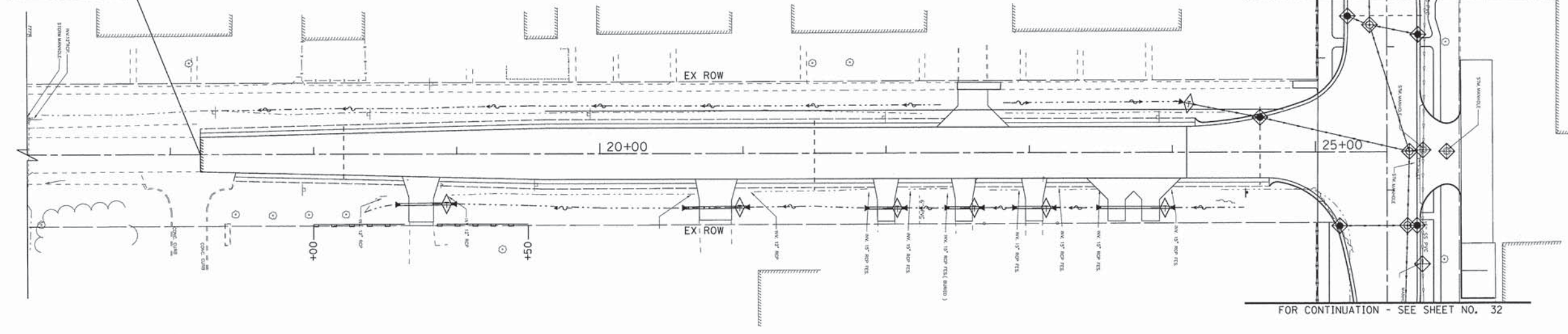
GREENWOOD ROAD

WEST LAKE AVENUE





BEGIN IMPROVEMENTS
GREENWOOD ROAD
STA 17+21

FOR CONTINUATION - SEE SHEET NO. 32

FOR CONTINUATION - SEE SHEET NO. 32



LEGEND

-  INLET FILTERS
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE
-  TEMPORARY DITCH CHECKS

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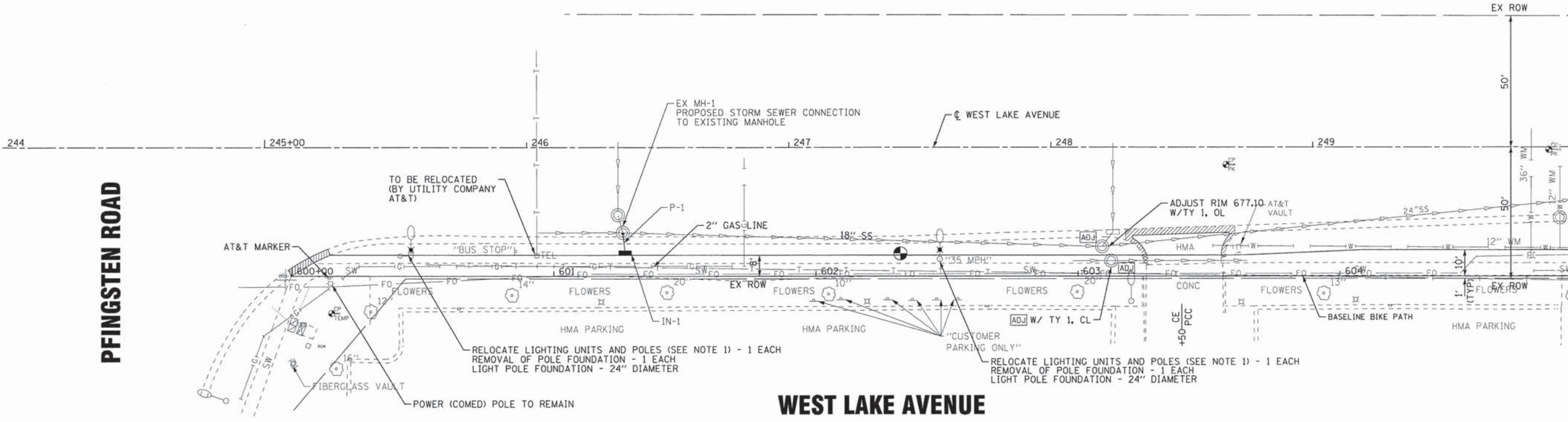
DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-ER3.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**EROSION AND SEDIMENT CONTROL PLAN -
GREENWOOD ROAD**

SCALE: 1" = 40'
STA. 16+00 TO STA. 25+50

F.A.U. RTE. 1284/2743	SECTION 07-00164-02-R5	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 33
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				



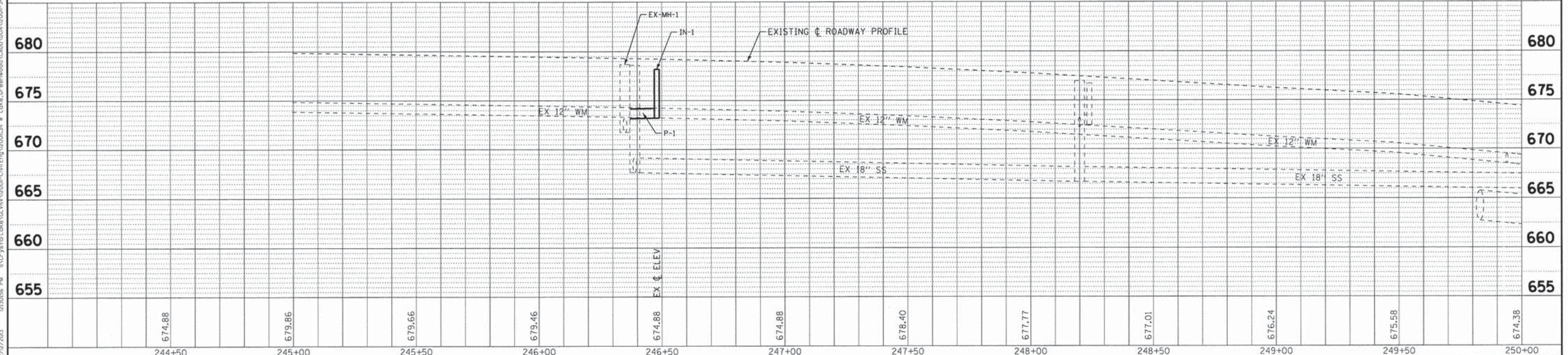
PFINGSTEN ROAD

WEST LAKE AVENUE

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
IN-1	246+38	40' RT	INLET, TYPE A	TY 8 GR	678.20	673.20 12" N
EX MH-1	246+37	32.5' RT	EX MANHOLE	EXISTING	-	673.15 12" S, 672.25 18" N (EX), 667.69 18" W (EX), 667.66 18" E (EX)

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-1	SS (WATER MAIN REQUIREMENTS)	5	12	1.00%	3.0

- NOTES:**
1. THE PROPOSED LIGHTING UNIT LOCATION SHALL BE COORDINATED WITH EXISTING UTILITIES AND THE ENGINEER. LIGHT POLE SHALL BE MINIMUM 4 FEET SETBACK FROM FACE OF EXISTING CURB. LIGHTING UNITS TO BE DELIVERED TO GLENVIEW PUBLIC WORKS FOR STORAGE UNTIL RELOCATED.
 2. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH.DUI.shx

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES
WEST LAKE AVENUE**

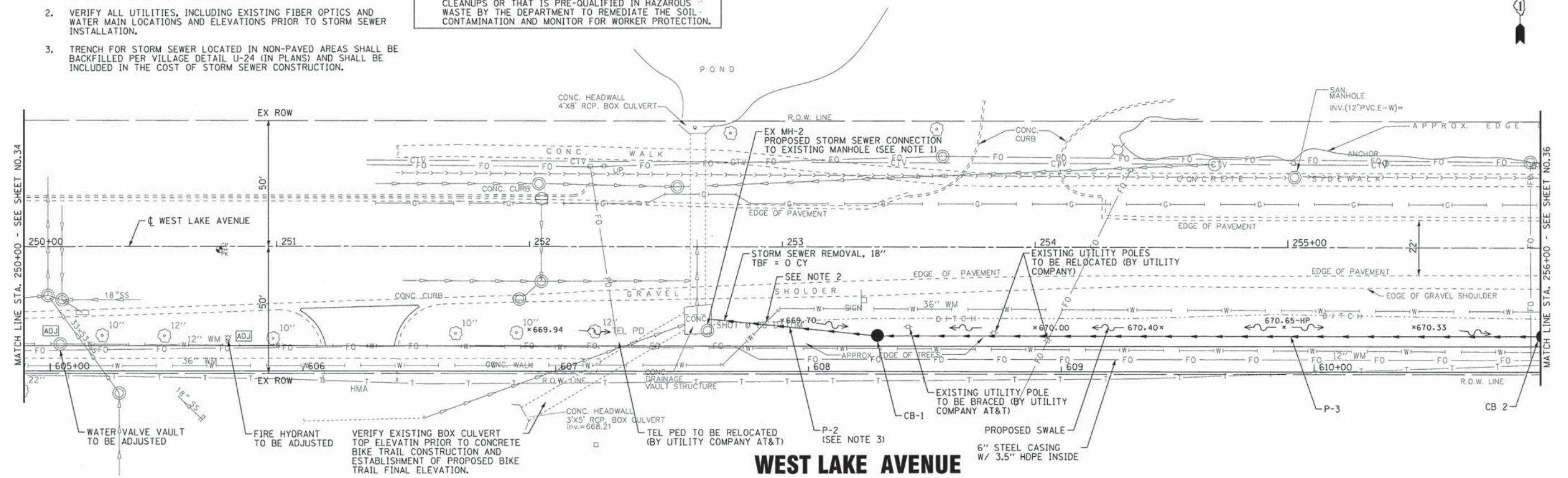
SCALE: H: 1"=20' V: 1"=5'	STA. 244+50 TO STA. 250+00	F.A. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 34
		C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)						

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 PROJECT: 120011-34-SH.DUI.shx
 DATE: 12/9/13
 DRAWN BY: CJC
 CHECKED BY: TLH
 FILE: 120011-34-SH.DUI.shx

NOTES:

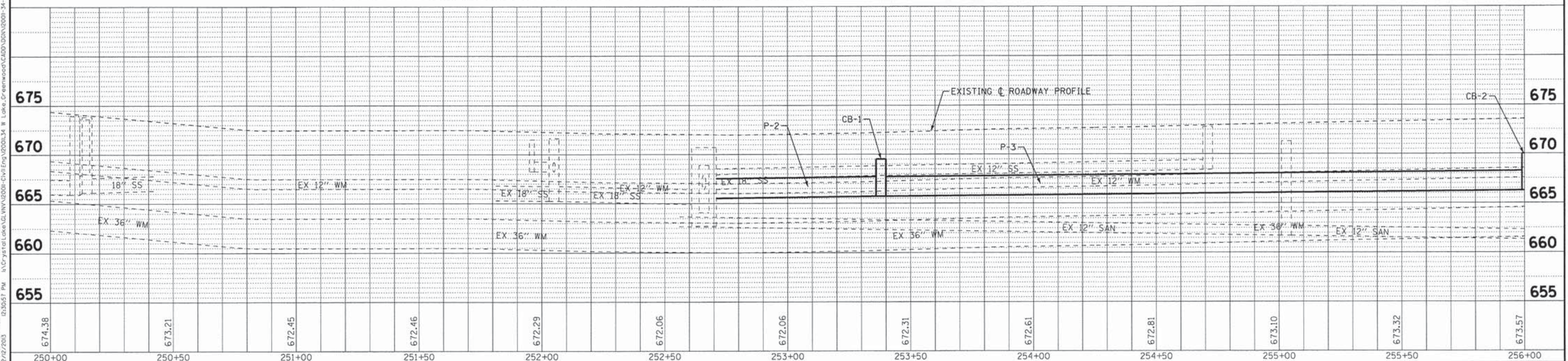
1. PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE; REMOVE EXISTING 18" RCP, RCP; CORE AND BOOT 24" RCP STORM SEWER PIPE AT INVERT ELEV. 665.50.
2. VERIFY ALL UTILITIES, INCLUDING EXISTING FIBER OPTICS AND WATER MAIN LOCATIONS AND ELEVATIONS PRIOR TO STORM SEWER INSTALLATION.
3. TRENCH FOR STORM SEWER LOCATED IN NON-PAVED AREAS SHALL BE BACKFILLED PER VILLAGE DETAIL U-24 (IN PLANS) AND SHALL BE INCLUDED IN THE COST OF STORM SEWER CONSTRUCTION.

4. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
EX MH-2	252+66	26.5' RT	EX MANHOLE 10'X8' BOX	EXISTING	-	665.50 24" E, 665.41 18" E (EX), 666.21 33"X53" SW (EX), 664.89 51"X51" N (EX)
CB-1	253+38	35' RT	CATCH BASIN, TYPE A, 4' DIA	TY 8 GR	669.50	665.70 24" E & W
CB-2	256+01	35' RT	CATCH BASIN, TYPE A, 4' DIA	TY 8 GR	670.00	666.25 24" E & W

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-2	SS, CLA, TYPE 2	66	24	0.30%	12.6
P-3	SS, CLA, TYPE 2	264	24	0.21%	35.4



DESIGNED - CAC	REVISIONS
DRAWN - CJC	REVISIONS
CHECKED - TLH	REVISIONS
DATE - 12/9/13	FILE - 120011-34-SH-DU2.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
WEST LAKE AVENUE

F.A. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 35
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

SCALE: H: 1"=20' V: 1"=5'
STA. 250+00 TO STA. 256+00

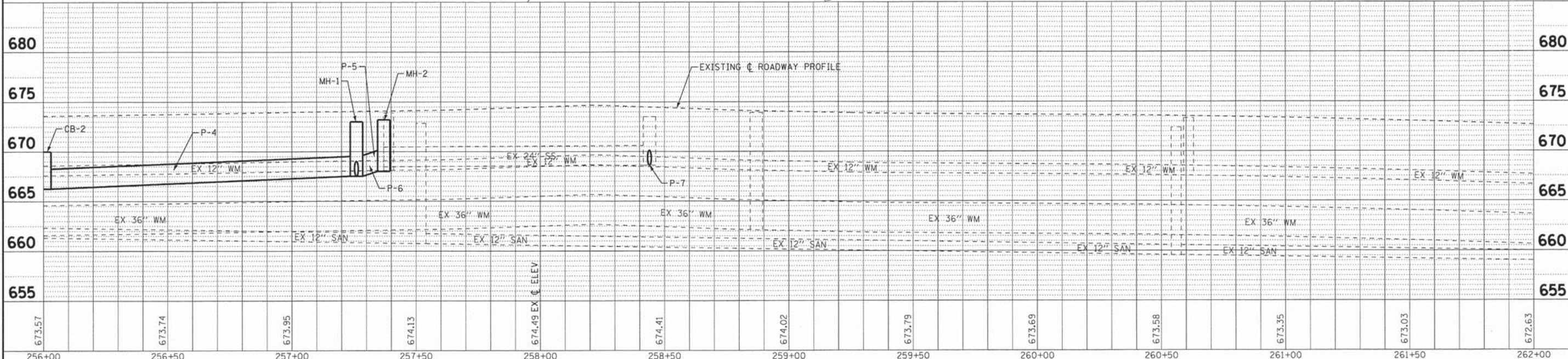
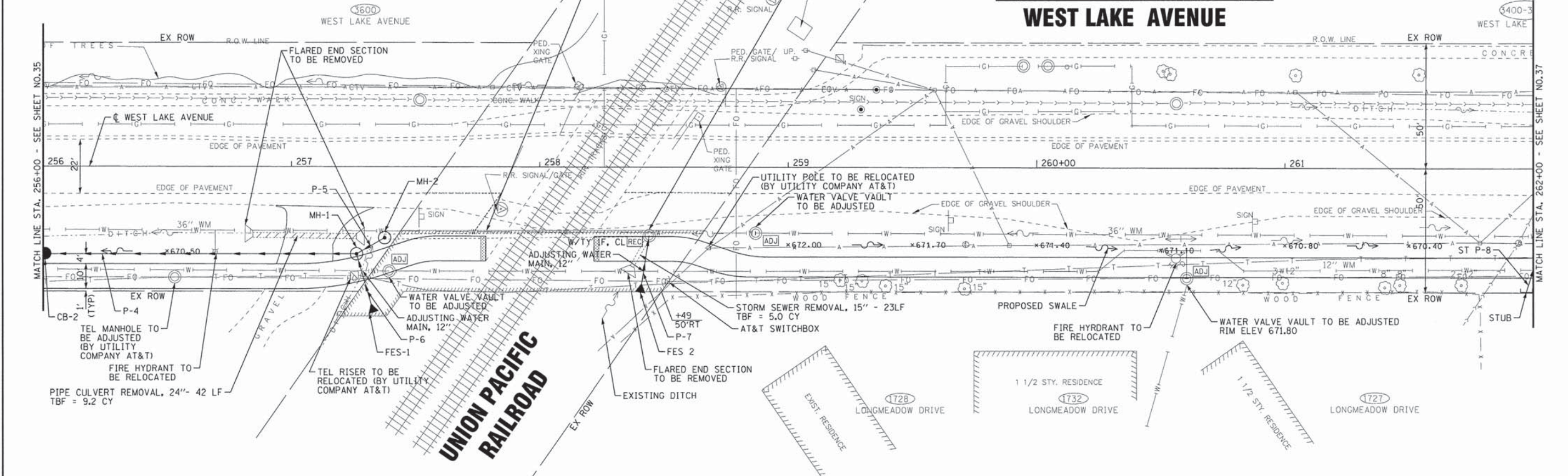
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 WWW.BAXTERANDWOODMAN.COM

NOTES:

1. VERIFY ALL UTILITIES, INCLUDING EXISTING FIBER OPTICS AND WATER MAIN LOCATIONS AND ELEVATIONS PRIOR TO STORM SEWER INSTALLATION.
2. TRENCH FOR STORM SEWER LOCATED IN NON-PAVED AREAS SHALL BE BACKFILLED PER VILLAGE DETAIL U-24 (IN PLANS) AND SHALL BE INCLUDED IN THE COST OF STORM SEWER CONSTRUCTION.
3. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
MH-1	257+26	35' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	673.00	667.50 24" E & W, 667.50 18" S
MH-2	257+37	28' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	673.20	668.46 24" E (EX), 668.00 24" W
FES-1	257+33	56.5' RT	PRECAST RCP FLARED END SECTION	WITH GR	-	668.40 18" N
FES-2	258+41	48.1' RT	PRECAST RCP FLARED END SECTION	WITH GR	-	668.70 18" N
EX MH-3	258+44	27.4' RT	EX MANHOLE (RECONSTRUCT)	TY 1 FR, CLUD	673.50	668.60 18" S, 668.60 24" W (EX)

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-4	SS, CL A, TYPE 2	125	24	1.00%	15.6
P-5	SS, CL A, TYPE 2	13	24	3.80%	5.5
P-6	SS, CL A, TYPE 2	20	18	4.50%	10.1
P-7	SS, CL A, TYPE 2	20	18	0.40%	12.8



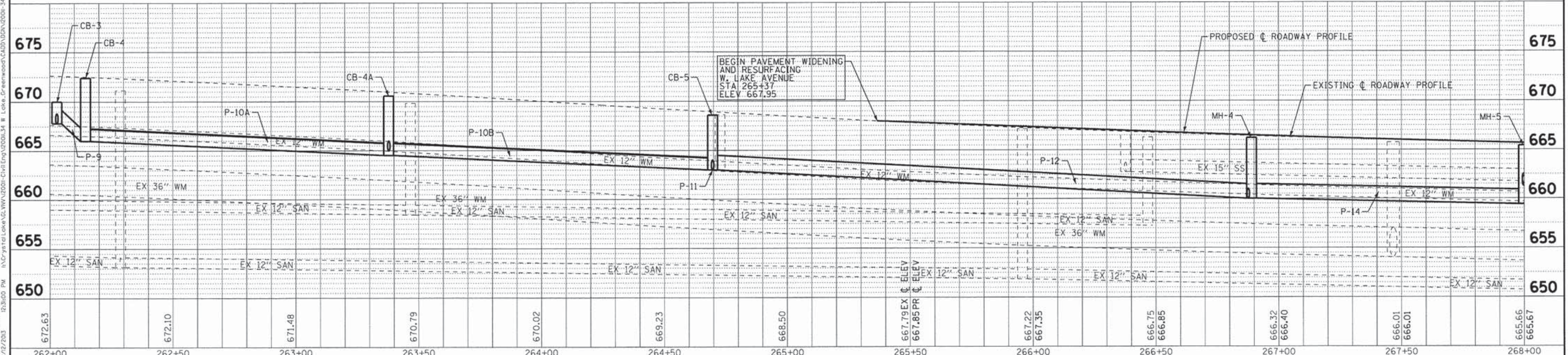
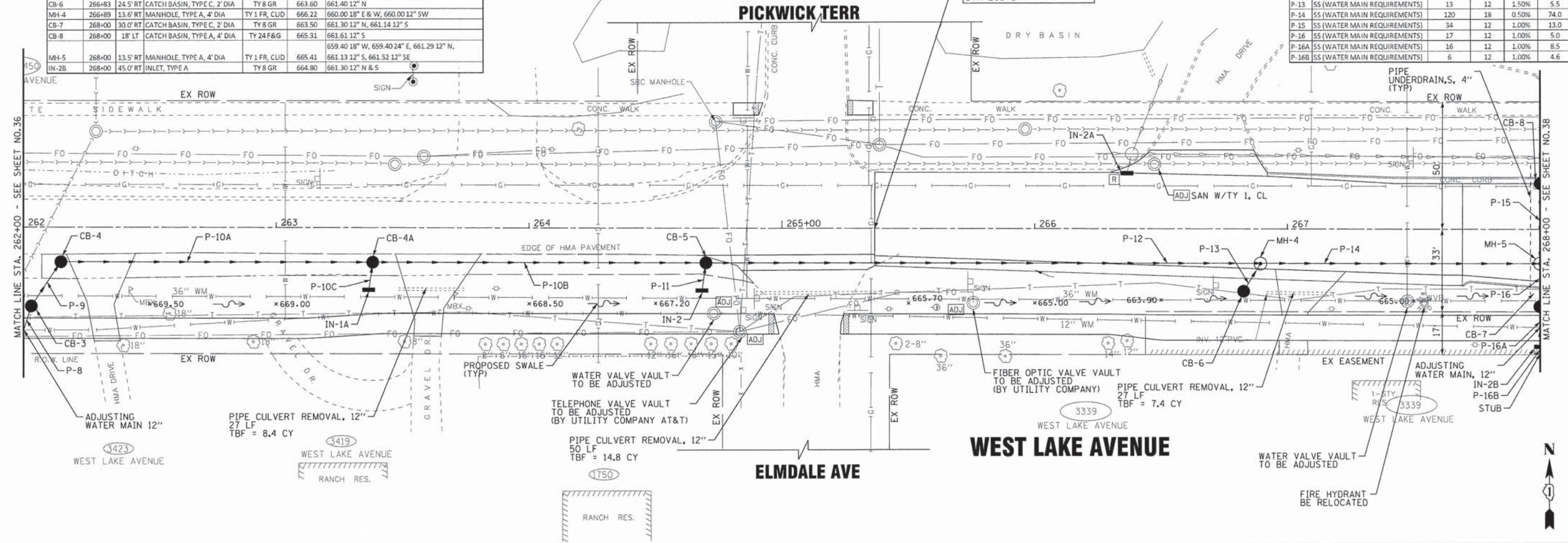
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	DRAWN - CJC	REvised -			1284/2743	07-00164-02-R5	COOK	87	36	
	CHECKED - TLH	REvised -			C-91-028-13		CONTRACT NO. 63878			
	DATE - 12/9/13	FILE - 120011-34-SH_DU3.shp			SCALE: H: 1"=20' V: 1"=5'		STA. 250+00 TO STA. 256+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861	

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 02/02/2013

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
CB-3	262+03	35' RT	CATCH BASIN, TYPE C, 2' DIA	TY 8 GR	670.00	667.80 12" N & S
CB-4	262+15	14' RT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	672.40	666.00 15" E, 12" S
CB-4A	263+38	14' RT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	670.56	664.52 15" E & W, 644.99 12" S
CB-5	264+70	14' RT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	668.60	662.94 18" E, 15" W, 12" S
IN-1A	263+37	24.5' RT	INLET, TYPE A	TY 8 GR	668.60	665.10 12" N
IN-2	264+68	24.5' RT	INLET, TYPE A	TY 8 GR	666.80	663.30 12" N
IN-2A	266+36	22' LT	INLET, TYPE A	TY 1 FR, CLID	666.06	662.88 12" N
CB-6	266+83	24.5' RT	CATCH BASIN, TYPE C, 2' DIA	TY 8 GR	663.60	661.40 12" N
MH-4	266+89	13.6' RT	MANHOLE, TYPE A, 4' DIA	TY 1 FR, CLID	666.22	660.00 18" E & W, 660.00 12" SW
CB-7	268+00	30.0' RT	CATCH BASIN, TYPE C, 2' DIA	TY 8 GR	663.50	661.30 12" N, 661.14 12" S
CB-8	268+00	18' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	665.31	661.61 12" S
MH-5	268+00	13.5' RT	MANHOLE, TYPE A, 4' DIA	TY 1 FR, CLID	665.41	661.13 12" S, 661.52 12" SE
IN-2B	268+00	45.0' RT	INLET, TYPE A	TY 8 GR	664.80	661.30 12" N & S

NOTES:
 1. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-8	SS (WATER MAIN REQUIREMENTS)	15	12	1.00%	9.0
P-9	SS (WATER MAIN REQUIREMENTS)	25	12	7.20%	11.6
P-10A	SS (WATER MAIN REQUIREMENTS)	123	15	1.20%	73.4
P-10B	SS (WATER MAIN REQUIREMENTS)	132	15	1.20%	82.8
P-10C	SS (WATER MAIN REQUIREMENTS)	11	12	1.00%	4.9
P-11	SS (WATER MAIN REQUIREMENTS)	12	12	2.50%	5.0
P-12	SS (WATER MAIN REQUIREMENTS)	220	18	1.40%	127.8
P-13	SS (WATER MAIN REQUIREMENTS)	13	12	1.50%	5.5
P-14	SS (WATER MAIN REQUIREMENTS)	120	18	0.50%	74.0
P-15	SS (WATER MAIN REQUIREMENTS)	34	12	1.00%	13.0
P-16	SS (WATER MAIN REQUIREMENTS)	17	12	1.00%	5.0
P-16A	SS (WATER MAIN REQUIREMENTS)	16	12	1.00%	8.5
P-16B	SS (WATER MAIN REQUIREMENTS)	6	12	1.00%	4.6



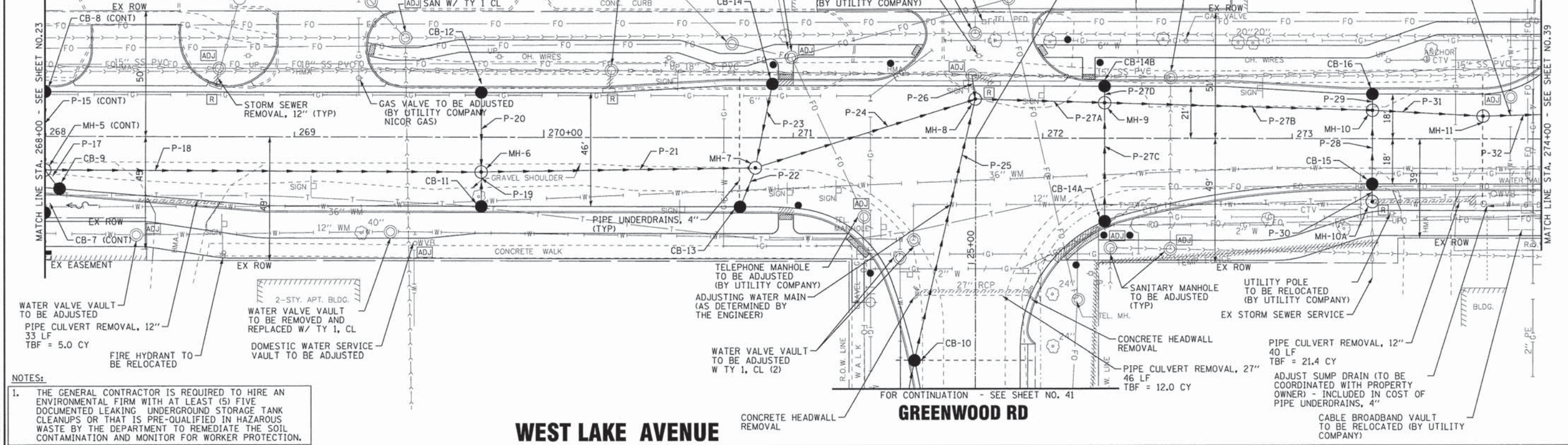
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DRAWN - CJC	REVISIONS	SCALE: H: 1"=20' V: 1"=5'		STA. 262+00 TO STA. 268+00		C-91-028-13		CONTRACT NO. 63878		FED. ROAD DIST. NO. 1 ILLINOIS
CHECKED - TLH	REVISIONS	DATE - 12/9/13		FILE - 120011-34-SH_DU4.sht		FED. AID PROJECT M-40030861				

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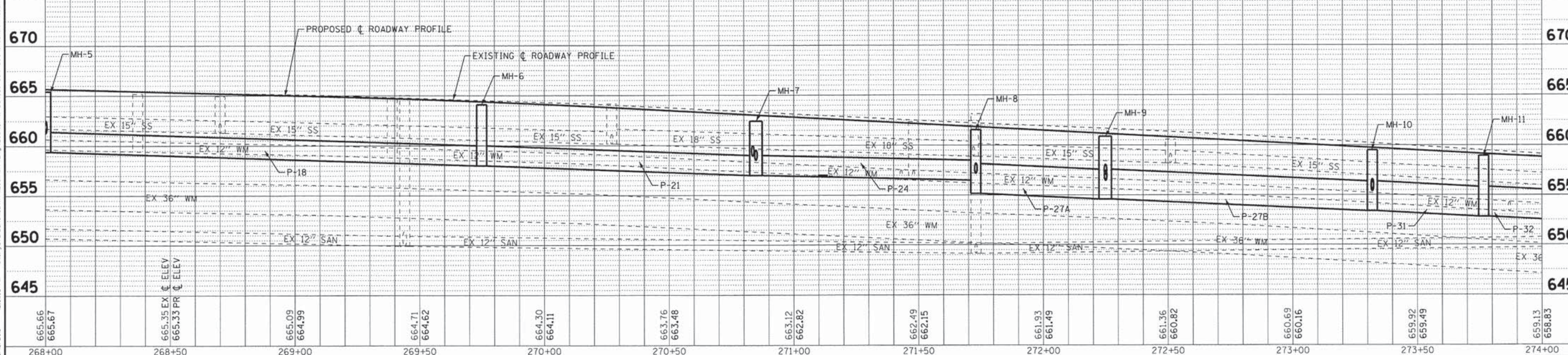
STORM STRUCTURES							
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS	
CB-9	268+06	21.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	665.21	661.51 12" NW	
CB-11	269+75	27.5' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	663.83	660.13 12" W	
MH-6	269+75	14.0' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	664.10	658.00 24" W & E, 680.00 12" N, 664.35 12" S	
CB-12	269+75	18.0' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	664.02	660.32 12" S	
CB-14	270+92	18.3' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	662.56	658.86 12" SE	
CB-13	270+79	27.5' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	662.83	659.13 12" NE	
MH-7	270+85	11.6' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	662.43	657.00 24" NE&W, 658.96 12" SW, 658.53 12" N	
MH-8	271+73	15.7' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	661.54	655.15 36" E, 657.20 18" S, 656.50 24" W	
CB-14A	272+25	33.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	660.65	656.95 12" S	
CB-14B	272+25	21.0' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	660.84	657.14 12" S	
MH-9	272+25	14.3' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	660.86	654.58 36" E&W, 656.47 12" S, 657.06 12" N	
CB-30	24+61	24.4' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	661.93	657.90 18" SW & NE	
MH-10	273+32	14.0' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	659.50	653.40 36" W & E, 655.39 12" S, 655.59 12" N	
MH-10A	273+32	25.0' RT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	660.30	654.96 12" S, 655.74 12" N	
CB-15	273+32	18' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	659.37	655.67 12" N	
CB-16	273+32	18' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	659.37	655.67 12" S	
MH-11	273+77	9.2' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLID	660.95	652.82 36" W & E, 652.20 12" S	

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-17	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	4.6
P-18	SS, CL A, TYPE 2	175	24	0.80%	84.0
P-19	SS (WATER MAIN REQUIREMENTS)	14	12	1.00%	4.0
P-20	SS (WATER MAIN REQUIREMENTS)	32	12	1.00%	13.1
P-21	SS, CL A, TYPE 2	110	24	0.91%	66.0
P-22	SS (WATER MAIN REQUIREMENTS)	17	12	1.00%	5.4
P-23	SS (WATER MAIN REQUIREMENTS)	35	12	0.95%	13.6
P-24	SS, CL A, TYPE 2	92	24	0.73%	27.0
P-25	SS (WATER MAIN REQUIREMENTS)	108	18	0.65%	52.0
P-26	SS (WATER MAIN REQUIREMENTS)	30	12	1.00%	6.2

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-27A	SS, CL A, TYPE 2	52	36	1.10%	37.6
P-27B	SS, CL A, TYPE 3	107	36	1.10%	42.0
P-27C	SS (WATER MAIN REQUIREMENTS)	48	12	1.00%	15.6
P-27D	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	5.4
P-28	SS (WATER MAIN REQUIREMENTS)	30	12	1.00%	12.8
P-29	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	5.2
P-30	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	5.6
P-31	SS, CL A, TYPE 2	45	36	1.00%	14.9
P-32	SS, CL A, TYPE 2	103	36	1.05%	48.0



NOTES:
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	DESIGNED - CAC	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAINAGE AND UTILITIES WEST LAKE AVENUE	F.A. RTE. 1284/2743	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 38
	DRAWN - CJC	FILE - 120011-34-SH-DU5.shpt		C-91-028-13	CONTRACT NO. 63878	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003086		
	CHECKED - TLH	DATE - 12/9/13		SCALE: H _z 1"=20' V _z 1"=5'	STA. 268+00 TO STA. 274+00			
	DATE - 12/9/13							

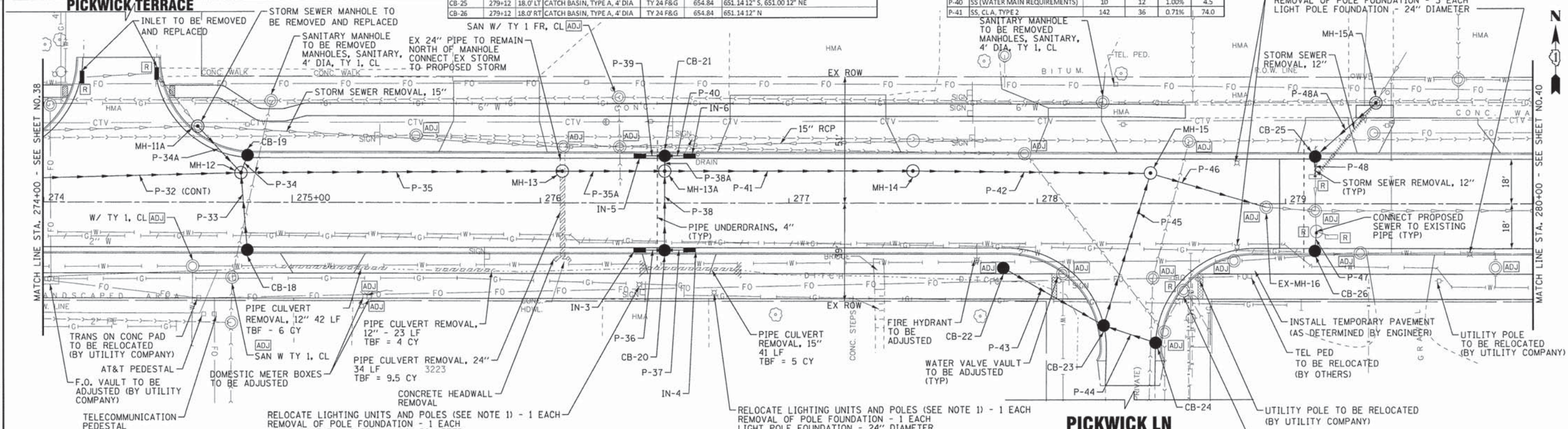
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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 041-10038-000001-000001
 PROJECT NO. 120011-34-SH-DU5.shpt

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
CB-18	274+82	18.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	657.38	653.68 12" NW
MH-11A	274+62	30.5' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	657.80	655.06 15" W & E, 655.17 12" NW, 654.00 15" SE
MH-12	274+79	12.0' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	657.53	653.74 15" NW
CB-19	274+82	18.0' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	657.38	653.68 12" SW
MH-13	276+09	12.8' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	655.85	649.53 36" W, 646.50 36" E, 651.80 24" EX EL PIPE
MH-13A	276+50	12.8' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	655.55	646.20 36" W & E, 651.39 12" S, 651.67 12" N
IN-3	276+40	18.0' RT	INLET, TYPE A	TY 24 F&G	655.50	652.80 12" E
CB-20	276+50	18.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	655.45	651.75 12" N, 652.75 12" W, 652.70 12" E
IN-4	276+60	18.0' RT	INLET, TYPE A	TY 24 F&G	655.40	652.75 12" W

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
CB-21	276+50	18.0' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	655.45	651.75 12" S, 652.75 12" W, 652.70 12" E
IN-5	276+60	18.0' LT	INLET, TYPE A	TY 24 F&G	655.50	652.80 12" E
IN-6	276+60	18.0' LT	INLET, TYPE A	TY 24 F&G	655.45	652.75 12" W
MH-14	277+50	13.0' LT	MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	655.54	645.50 36" E/W, 651.40 12" S
CB-22	277+86	18.0' LT	CATCH BASIN, TYPE C, 2' DIA	TY 8 GR	655.10	651.40 12" SE
CB-23	278+27	49.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	655.05	650.93 12" NW, 651.22 12" NE, 650.95 12" SE
CB-24	278+48	26.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 8 GR	654.87	651.17 12" NW
MH-15	278+46	13.0' LT	MANHOLE, TYPE A, 6' DIA	TY 1 FR, CLUD	655.43	645.16 36" E/W, 650.58 12" SW
MH-15A	279+36	40.5' LT	MANHOLE, TYPE A, 4' DIA	TY 1 FR, CLUD	656.27	654.21 10" NE, 653.75 10" S, 651.34 12" SW
EX MH-16	278+92	0.5' RT	R&R MANHOLE, TYPE A, 5' DIA	TY 1 FR, CLUD	655.32	645.00 36" W, 642.19 24" EX E
CB-25	279+12	18.0' LT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	654.84	651.14 12" S, 651.00 12" NE
CB-26	279+12	18.0' RT	CATCH BASIN, TYPE A, 4' DIA	TY 24 F&G	654.84	651.14 12" N

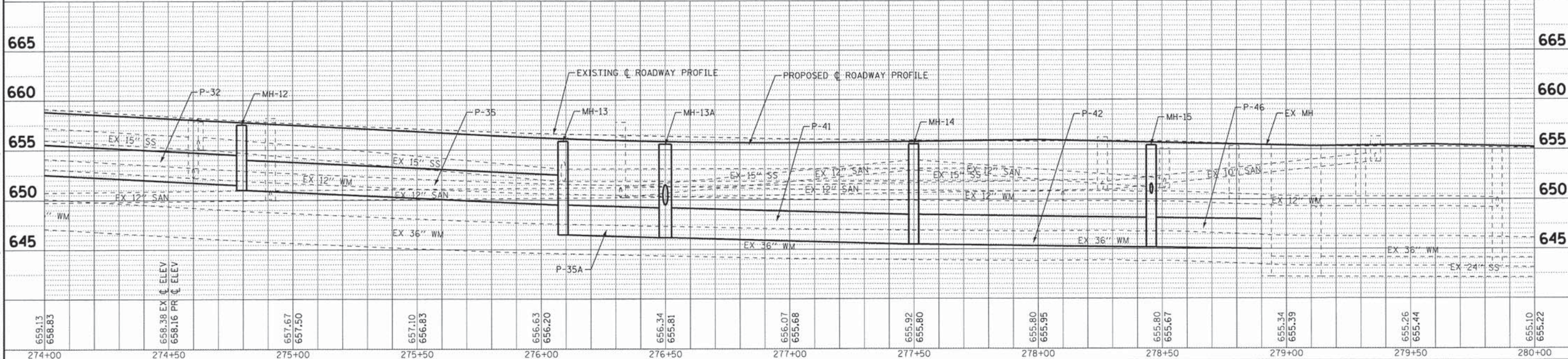
STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-33	SS (WATER MAIN REQUIREMENTS)	32	12	1.00%	12.1
P-34	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	5.0
P-34A	SS (WATER MAIN REQUIREMENTS)	26	15	1.00%	6.0
P-35	SS, CL, TYPE 2	130	36	1.73%	68.0
P-35A	SS, CL, TYPE 2	41	36	0.71%	16.8
P-36	SS (WATER MAIN REQUIREMENTS)	10	12	1.00%	4.5
P-37	SS (WATER MAIN REQUIREMENTS)	10	12	1.00%	4.5
P-38	SS (WATER MAIN REQUIREMENTS)	36	12	1.00%	12.7
P-38A	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	13.7
P-39	SS (WATER MAIN REQUIREMENTS)	10	12	1.00%	4.5
P-40	SS (WATER MAIN REQUIREMENTS)	10	12	1.00%	4.5
P-41	SS, CL, TYPE 2	142	36	0.71%	74.0

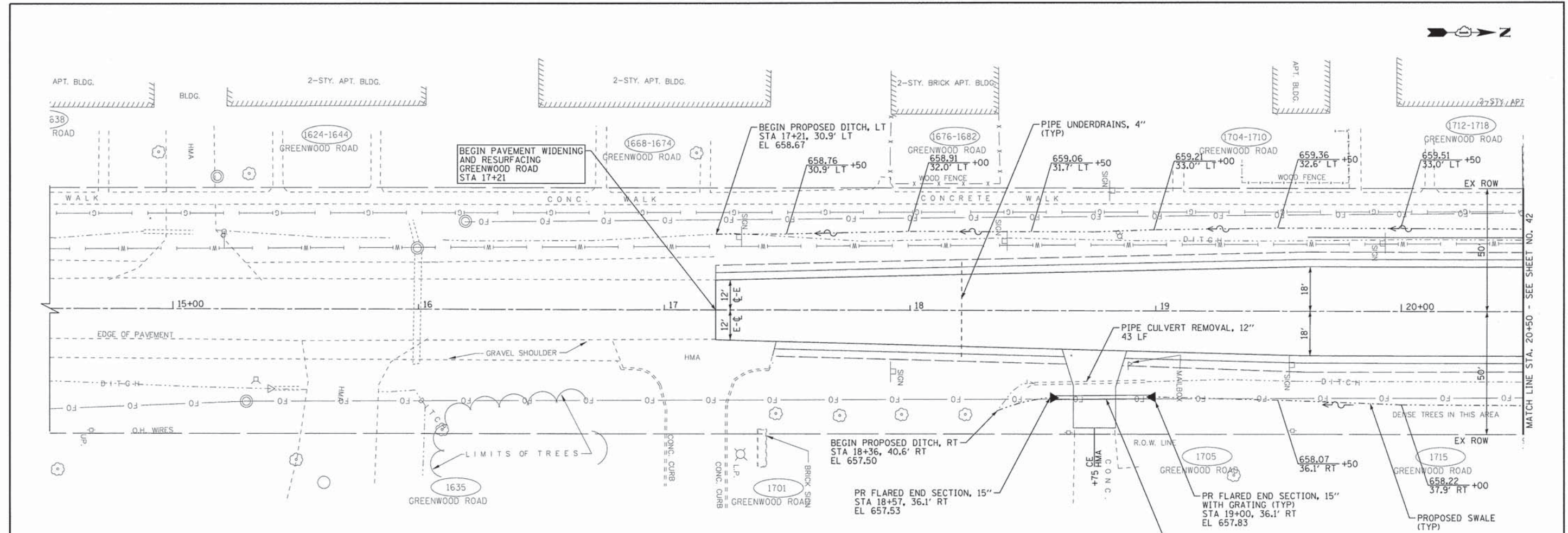
STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE	TBF (CY)
P-42	SS, CL, TYPE 2	96	36	0.35%	47.0
P-43	SS (WATER MAIN REQUIREMENTS)	47	12	1.00%	14.2
P-44	SS (WATER MAIN REQUIREMENTS)	22	12	1.00%	8.0
P-45	SS (WATER MAIN REQUIREMENTS)	64	12	1.00%	29.0
P-46	SS, CL, TYPE 2	50	36	0.35%	18.6
P-47	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	4.0
P-48	SS (WATER MAIN REQUIREMENTS)	8	12	1.00%	4.0
P-48A	SS (WATER MAIN REQUIREMENTS)	34	12	1.00%	12.5



- NOTES:**
1. THE PROPOSED LIGHTING UNIT LOCATION SHALL BE COORDINATED WITH EXISTING UTILITIES AND THE ENGINEER. LIGHT POLE SHALL BE MINIMUM 4 FEET SETBACK FROM FACE OF EXISTING CURB. LIGHTING UNITS TO BE DELIVERED TO GLENVIEW PUBLIC WORKS FOR STORAGE UNTIL RELOCATED.
 2. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

WEST LAKE AVENUE

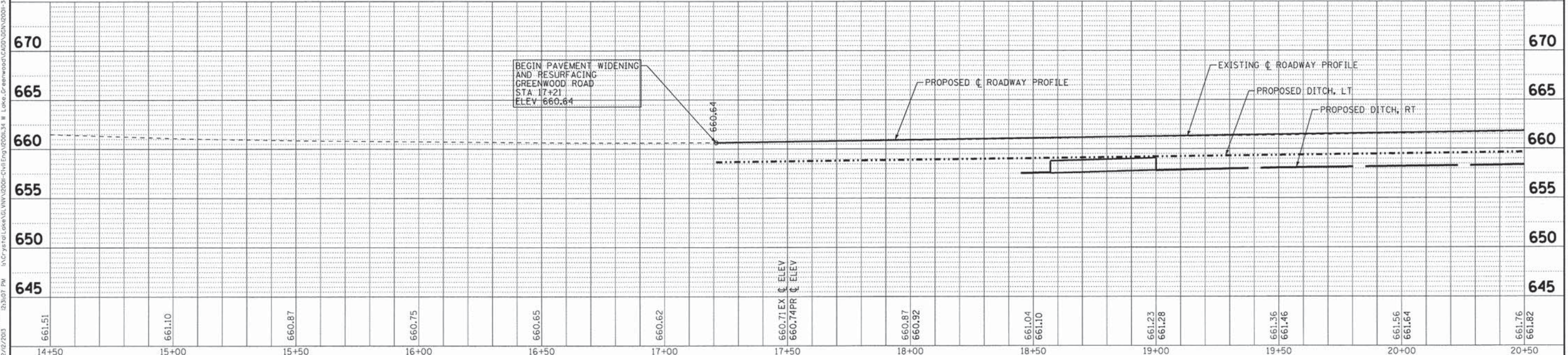




NOTES:

1. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

GREENWOOD ROAD



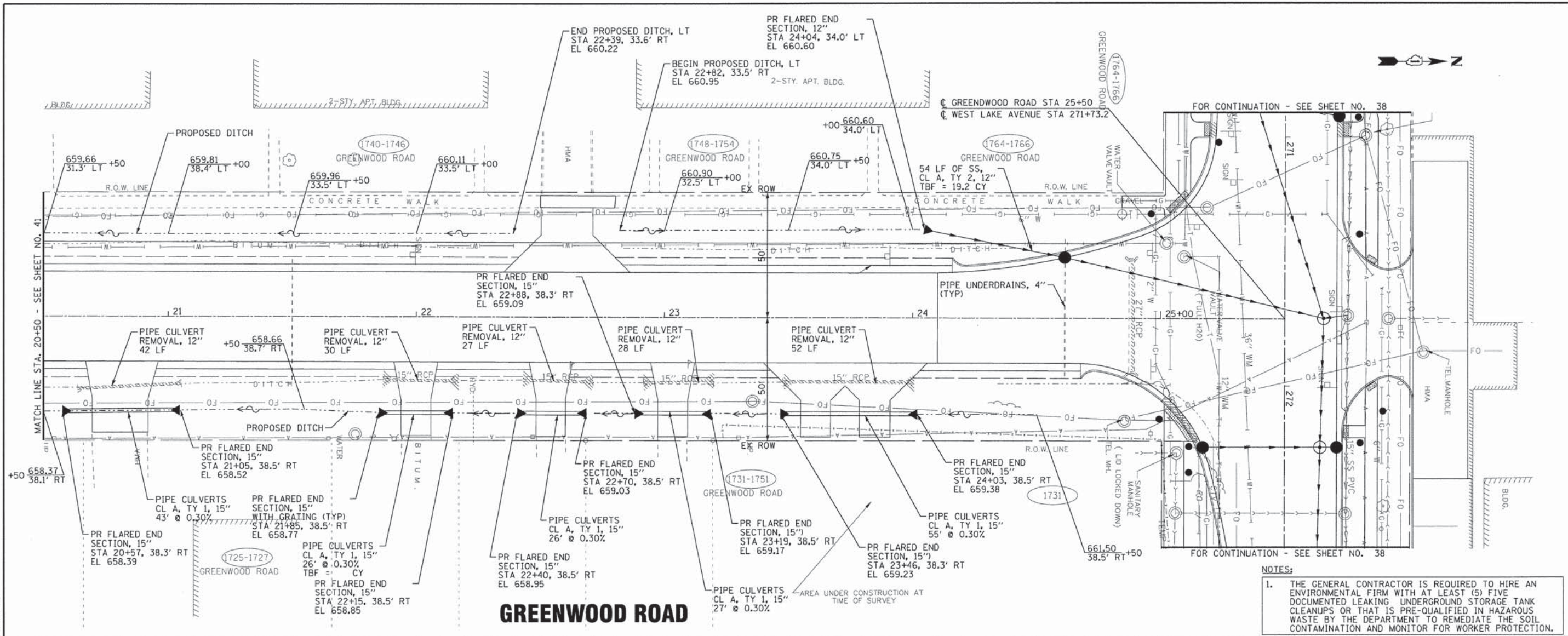
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CHECKED - TLH	REVISIONS
DATE - 12/9/13	FILE - 120011-34-SH_DU8.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITIES - GREENWOOD ROAD

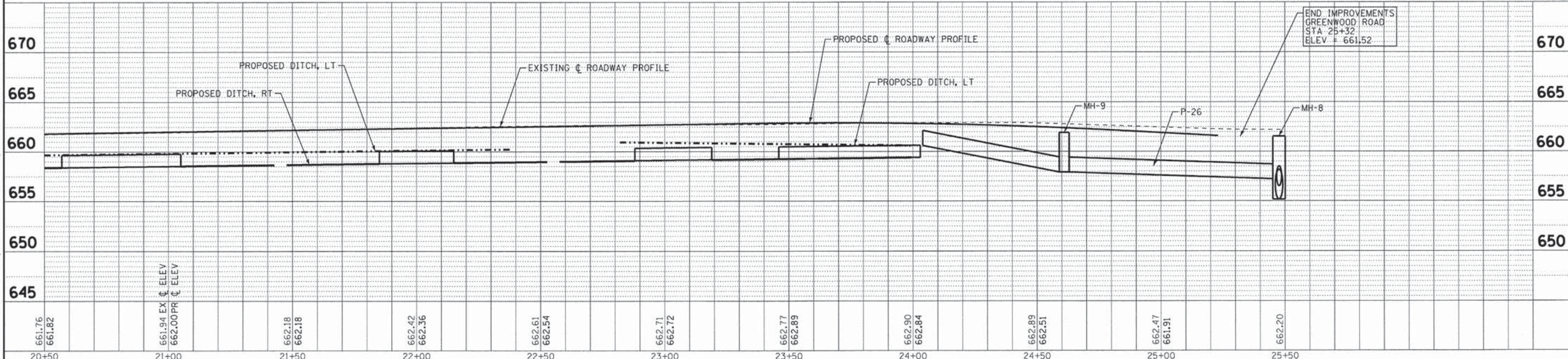
SCALE: H: 1"=20' V: 1"=5'	STA. 14+50 TO STA. 20+50	F.A. RTE. 1284(243)	SECTION 07-00164-02-R5	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 41
			C-91-028-13	CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40030861						

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 PROJECT: 120011-34-SH_DRAINAGE UTILITIES
 DATE: 12/9/13
 FILE: 120011-34-SH_DU8.sht



NOTES:

1. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) FIVE DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZAROUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



661.76 661.82	661.94 EX 662.00 PR	662.18 662.18	662.42 662.36	662.61 662.54	662.71 662.72	662.77 662.89	662.90 662.84	662.89 662.51	662.47 661.91	662.299
20+50	21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50

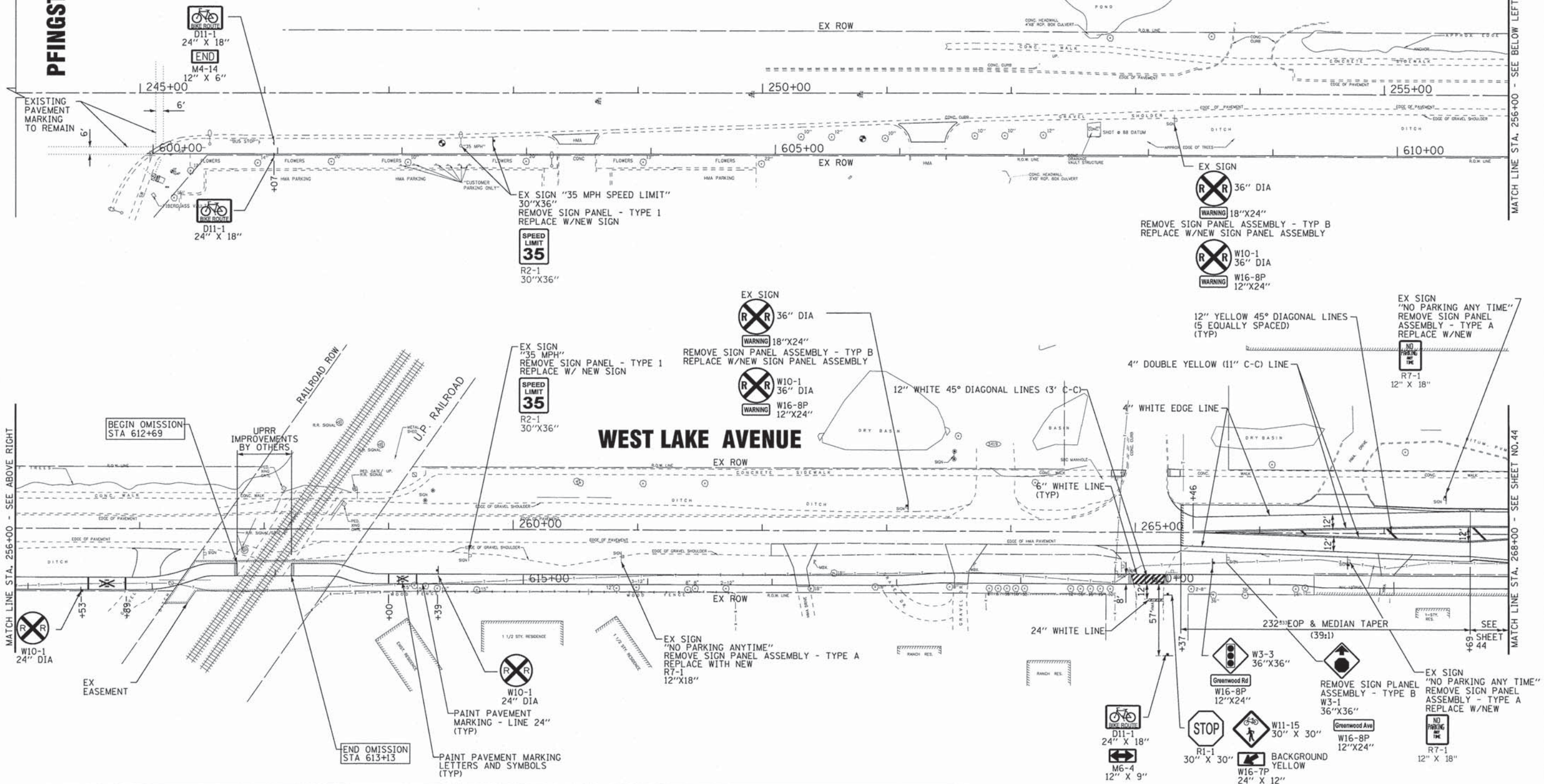
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NOTES:

1. PAVEMENT MARKING ON HMA ROADWAY IS THERMOPLASTIC PAVEMENT MARKING, PAVEMENT MARKING ON PCC SIDEWALK IS PAINT PAVEMENT MARKING.
2. ALL PAVEMENT MARKING SHALL BE INSTALLED ACCORDING TO THE IDOT DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKINGS (TC-13) AND HIGHWAY STANDARDS 780001.
3. ALL PROPOSED SIGNS SHALL MEET CURRENT MUTCD REQUIREMENTS.
4. RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG WEST LAKE AVENUE AND GREENWOOD ROAD IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE MARKERS (SNOW-PLOW RESISTANT) (TC-11) AND HIGHWAY STANDARD 781001.

PFFINGSTEN ROAD

WEST LAKE AVENUE



MATCH LINE STA. 256+00 - SEE ABOVE RIGHT

MATCH LINE STA. 256+00 - SEE BELOW LEFT

MATCH LINE STA. 268+00 - SEE SHEET NO. 44

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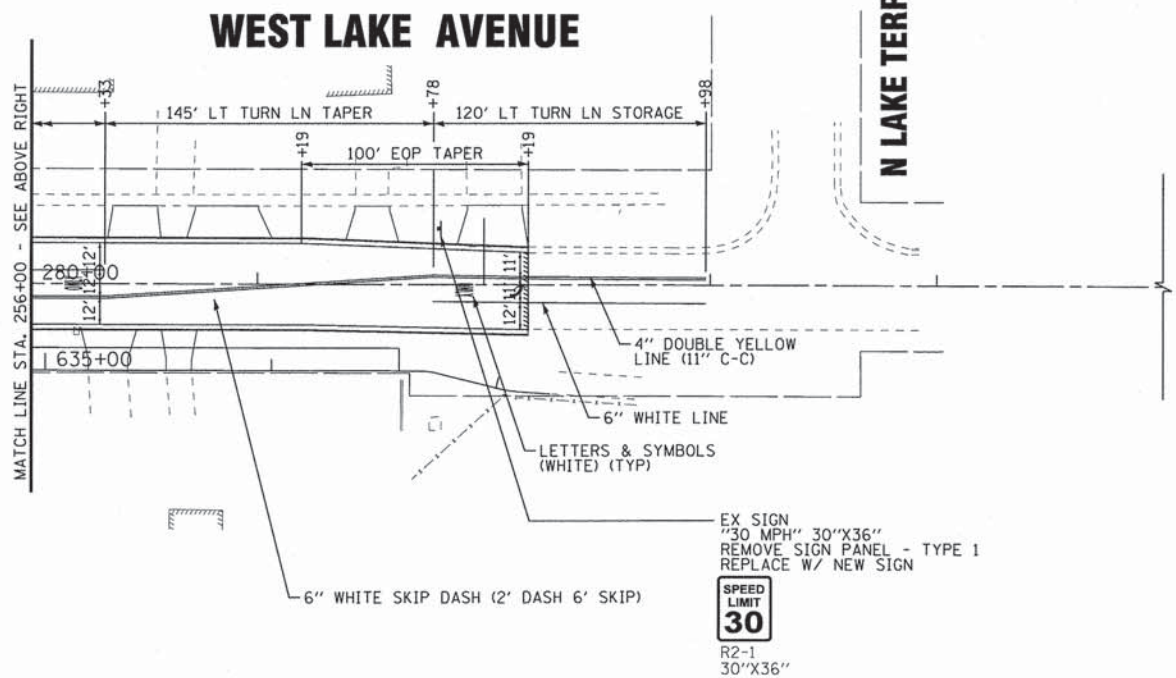
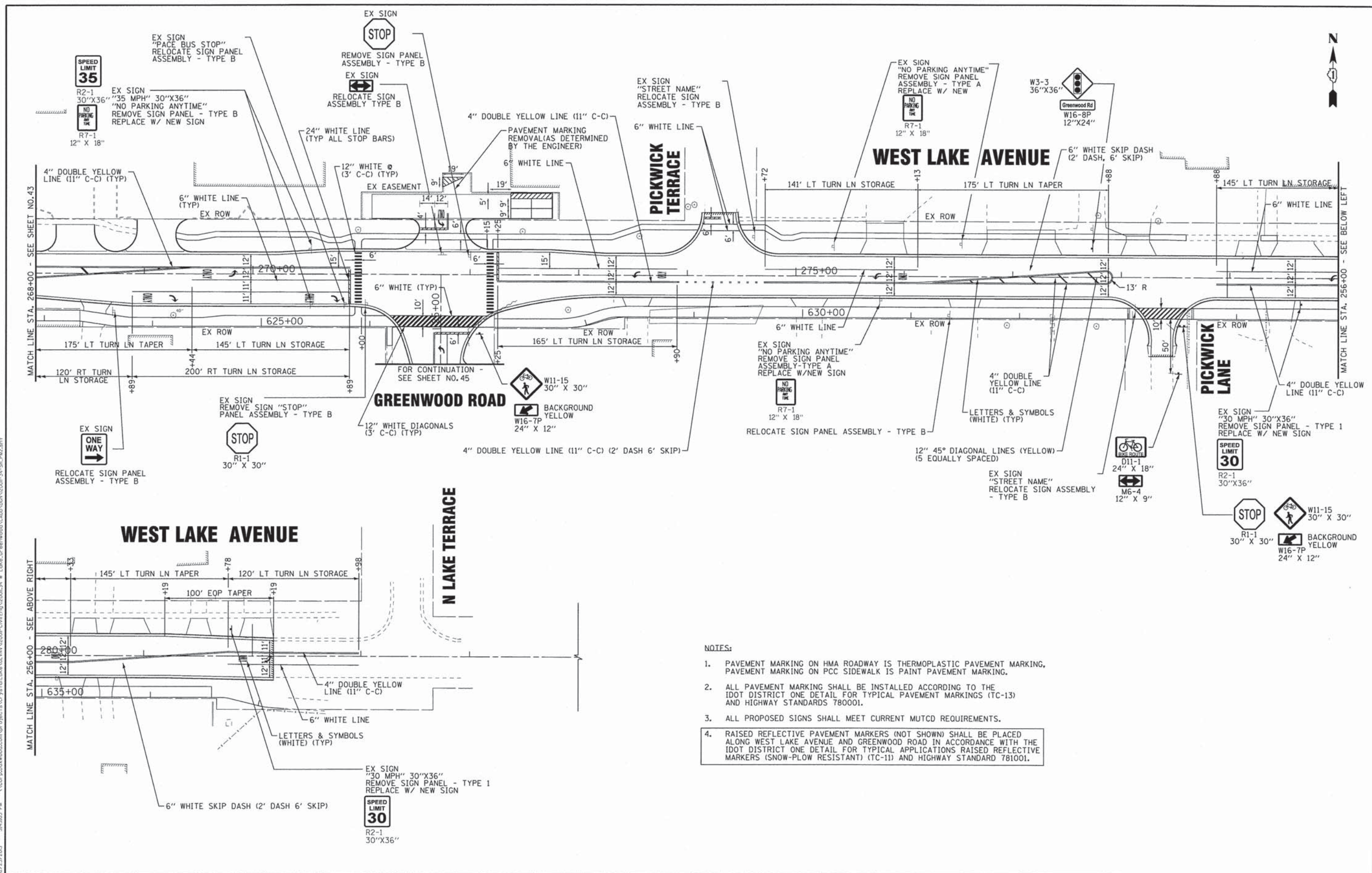
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
WEST LAKE AVENUE**

SCALE: 1" = 40'

STA. 244+00 TO STA. 268+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/243	07-00164-02-RS	COOK	87	43
	C-91-028-13		CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-400310661				



- NOTES:**
- PAVEMENT MARKING ON HMA ROADWAY IS THERMOPLASTIC PAVEMENT MARKING, PAVEMENT MARKING ON PCC SIDEWALK IS PAINT PAVEMENT MARKING.
 - ALL PAVEMENT MARKING SHALL BE INSTALLED ACCORDING TO THE IDOT DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKINGS (TC-13) AND HIGHWAY STANDARDS 780001.
 - ALL PROPOSED SIGNS SHALL MEET CURRENT MUTCD REQUIREMENTS.
 - RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG WEST LAKE AVENUE AND GREENWOOD ROAD IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE MARKERS (SNOW-PLOW RESISTANT) (TC-11) AND HIGHWAY STANDARD 781001.

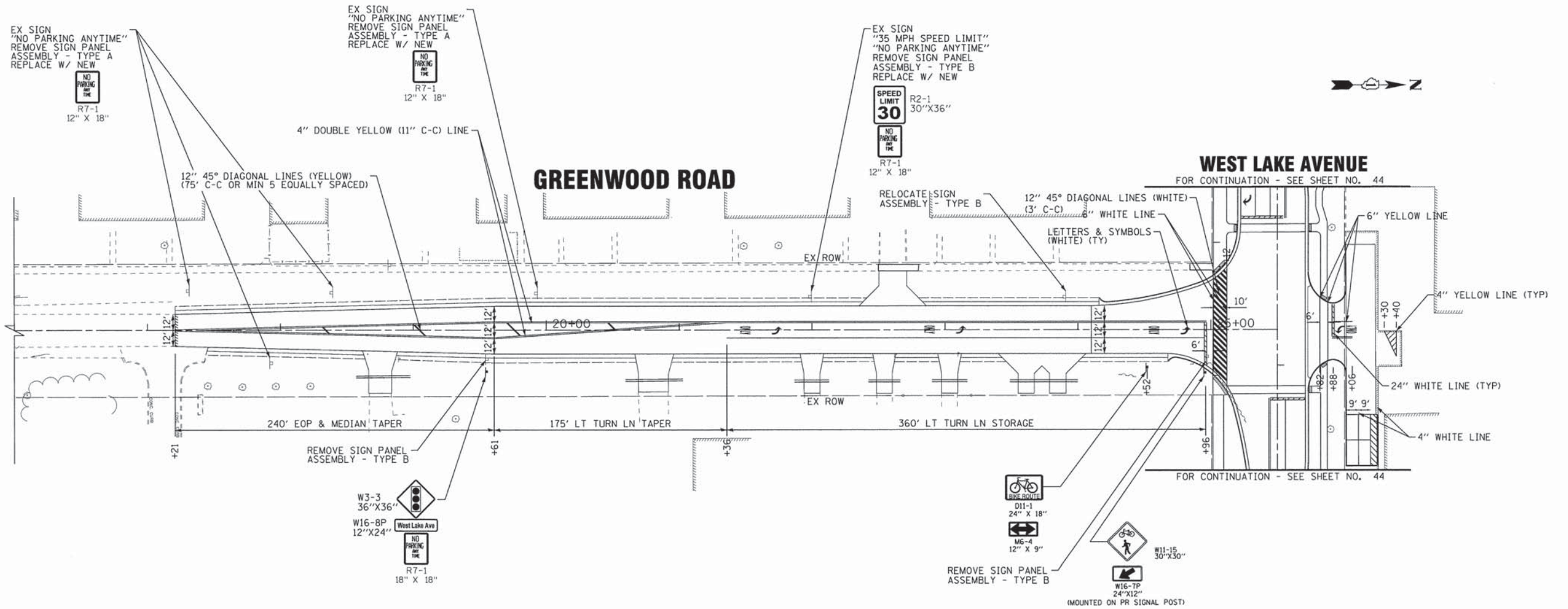
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DATE - 12/9/13	FILE - 120011-34-SH-PM2.sh

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN WEST LAKE AVENUE	
SCALE: 1" = 40'	STA. 268+00 TO STA. 285+00

F.A.U. SHEET NO. 0284/2183	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 44
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				



NOTES:

1. PAVEMENT MARKING ON HMA ROADWAY IS THERMOPLASTIC PAVEMENT MARKING, PAVEMENT MARKING ON PCC SIDEWALK IS PAINT PAVEMENT MARKING.
2. ALL PAVEMENT MARKING SHALL BE INSTALLED ACCORDING TO THE IDOT DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKINGS (TC-13) AND HIGHWAY STANDARDS 780001.
3. ALL PROPOSED SIGNS SHALL MEET CURRENT MUTCD REQUIREMENTS.
4. RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG WEST LAKE AVENUE AND GREENWOOD ROAD IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE MARKERS (SNOW-PLOW RESISTANT) (TC-11) AND HIGHWAY STANDARD 781001.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
GREENWOOD ROAD**

SCALE: 1" = 40'

STA. 16+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	45
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

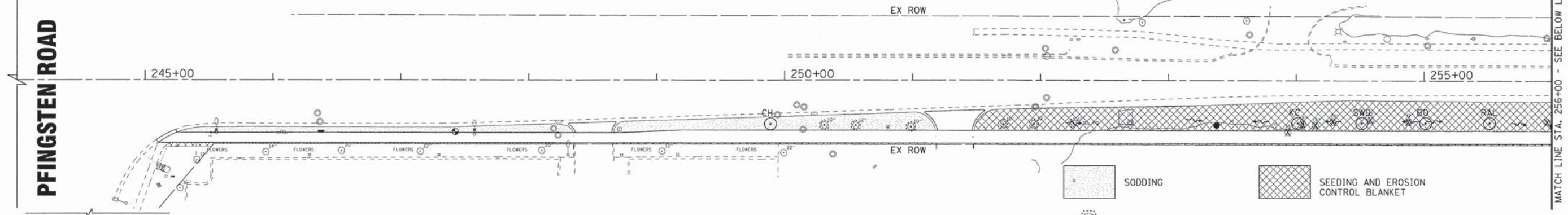
TREE SCHEDULE

NOTE: THE LOCATION OF THE PROPOSED TREES SHOWN ARE APPROXIMATE. FINAL TREE LOCATIONS SHALL BE DETERMINED AND APPROVED IN THE FIELD BY THE VILLAGE FORESTER (847-657-3030) AND THE ENGINEER.

B0002740	TREE, BALMAIN COMMON HORSECHESTNUT, 4" CALIPER, BALLED AND BURLAPPED	CHC	EACH	8
A2002924	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	CH	EACH	8
A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	KC	EACH	8
A2006524	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK) 3" CALIPER, BALLED AND BURLAPPED	SWD	EACH	8
A2006726	TREE, QUERCUS MACROCARPA (BUR OAK), 3" CALIPER, BALLED AND BURLAPPED	BO	EACH	8
A2007924	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 3" CALIPER, BALLED AND BURLAPPED	RAL	EACH	8
B2006322	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 3" CALIPER, BALLED AND BURLAPPED	ISJ	EACH	8

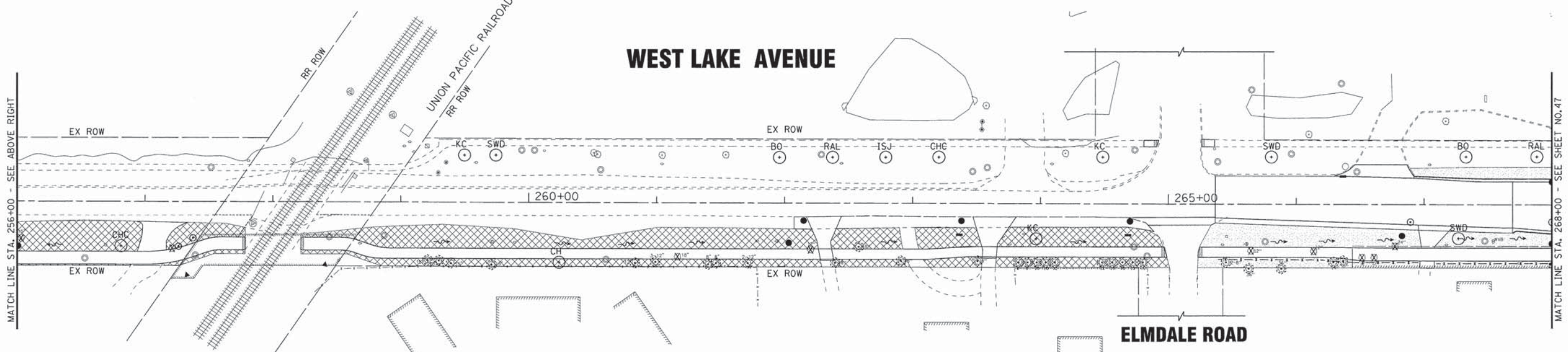
WEST LAKE AVENUE

PFINGSTEN ROAD



- NOTES:
1. TREE LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS OF TREES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 2. FINAL LIMITS OF SEED AND SOD SHALL BE DETERMINED BY THE ENGINEER.

WEST LAKE AVENUE



ELMDALE ROAD

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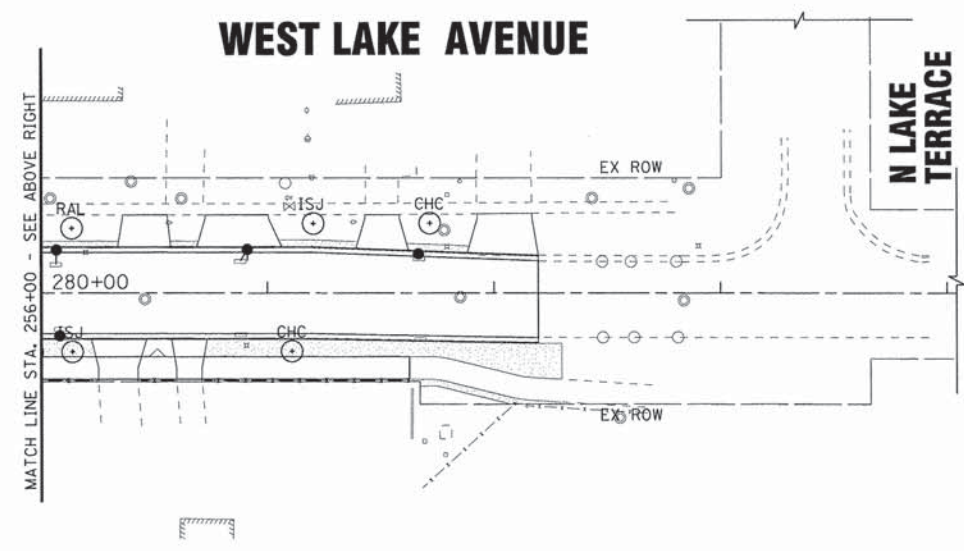
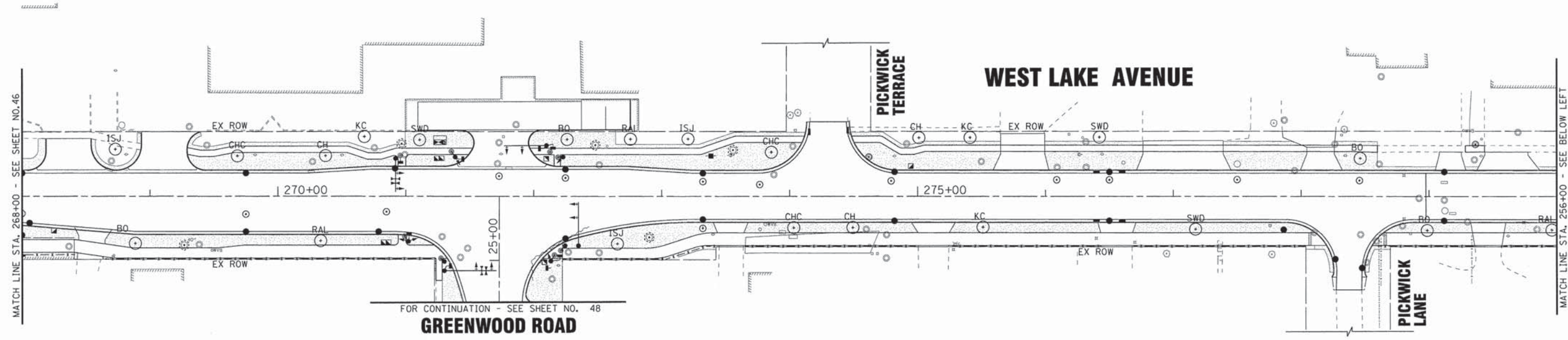
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN - WEST LAKE AVENUE

SCALE: 1" = 40'
STA. 244+00 TO STA. 268+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	46
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030867				



-  SODDING
-  SEEDING AND EROSION CONTROL BLANKET
-  TREE TRUNK PROTECTION

- NOTES:
1. TREE LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS OF TREES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 2. FINAL LIMITS OF SEED AND SOD SHALL BE DETERMINED BY THE ENGINEER.

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 1284/2143
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN - WEST LAKE AVENUE

SCALE: 1" = 40' STA. 268+00 TO STA. 285+00

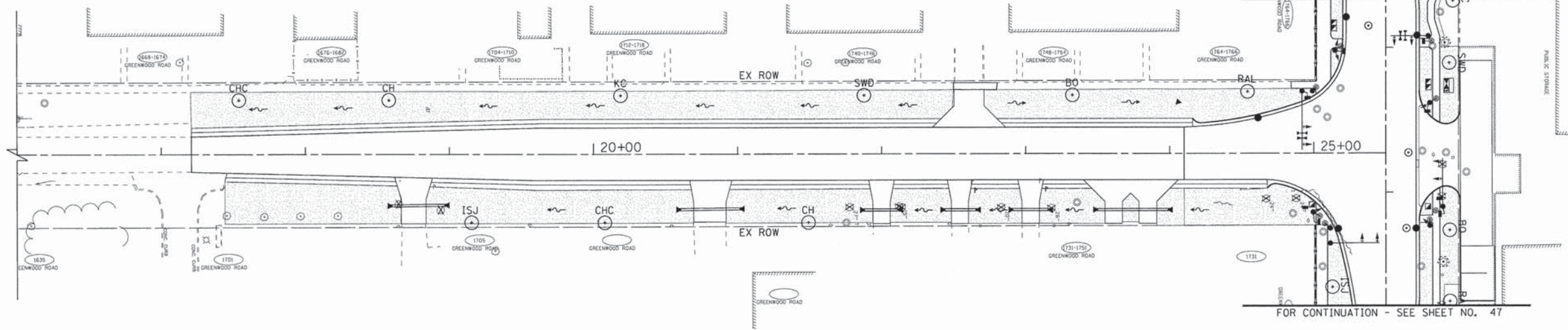
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-RS	COOK	87	47
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



GREENWOOD ROAD

WEST LAKE AVENUE

FOR CONTINUATION - SEE SHEET NO. 47



- SODDING
- SEEDING AND EROSION CONTROL BLANKET
- TREE TRUNK PROTECTION

NOTES:

1. TREE LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS OF TREES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. FINAL LIMITS OF SEED AND SOD SHALL BE DETERMINED BY THE ENGINEER.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN - GREENWOOD ROAD

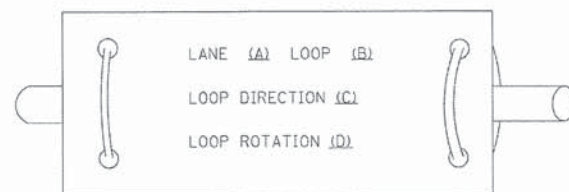
SCALE: 1" = 40'
STA. 16+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	48
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

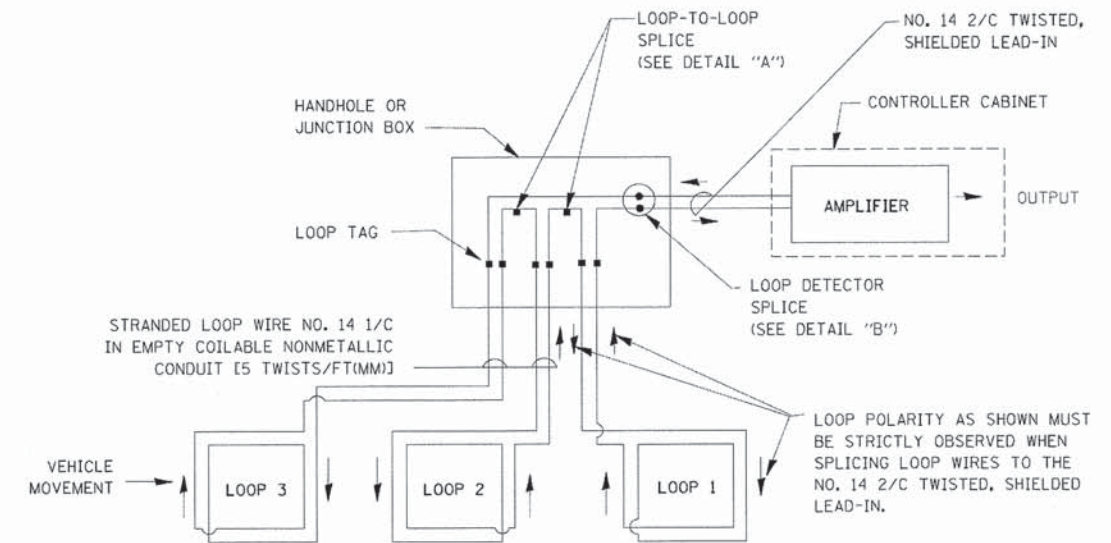
LOOP DETECTOR NOTES

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES 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.
- 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.
- PERFORMED 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

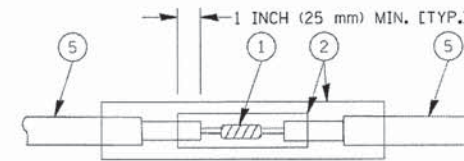


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

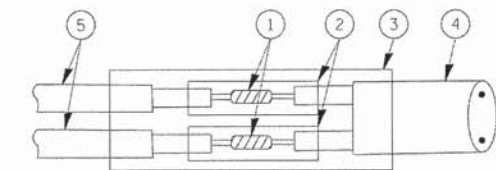


DETECTOR LOOP WIRING SCHEMATIC

- 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.

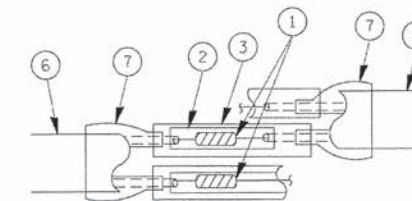


DETAIL "A"
LOOP-TO-LOOP SPLICE

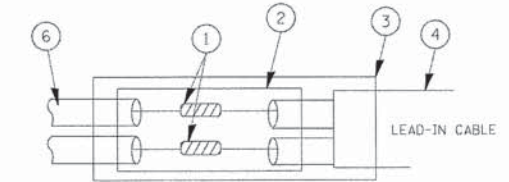


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
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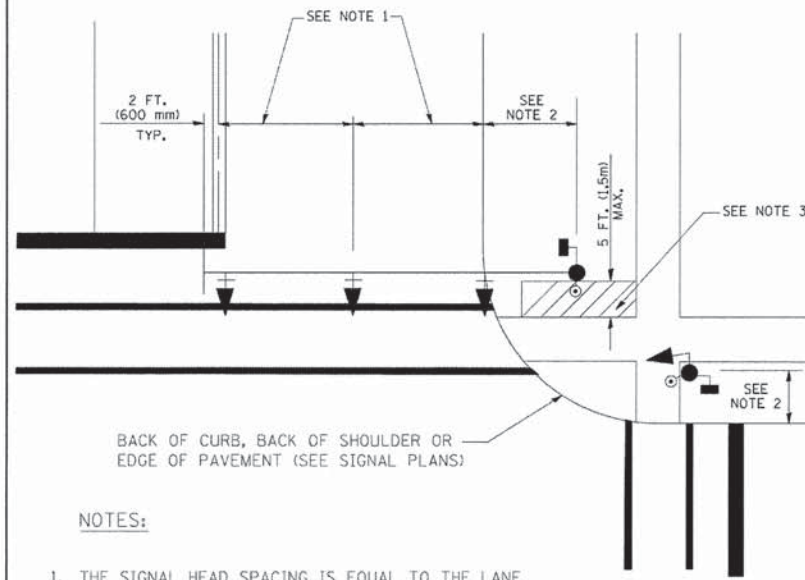
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2743	07-00164-02-RS	COOK	87	49
TS-05		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40030961				

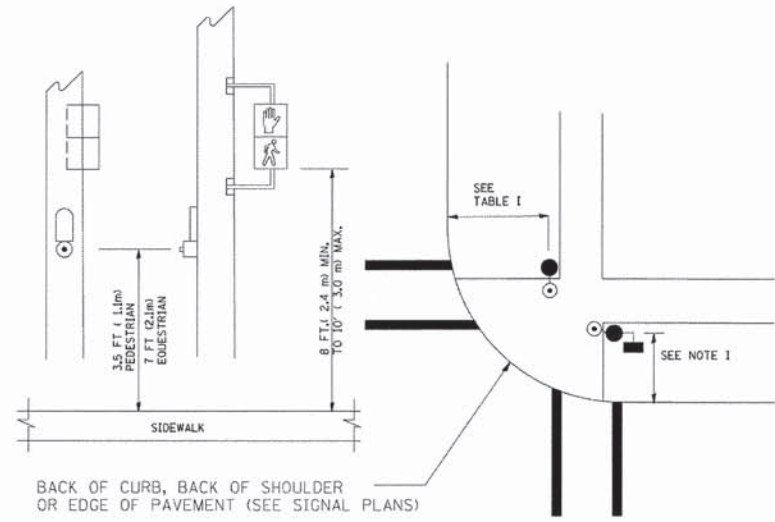
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
 MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

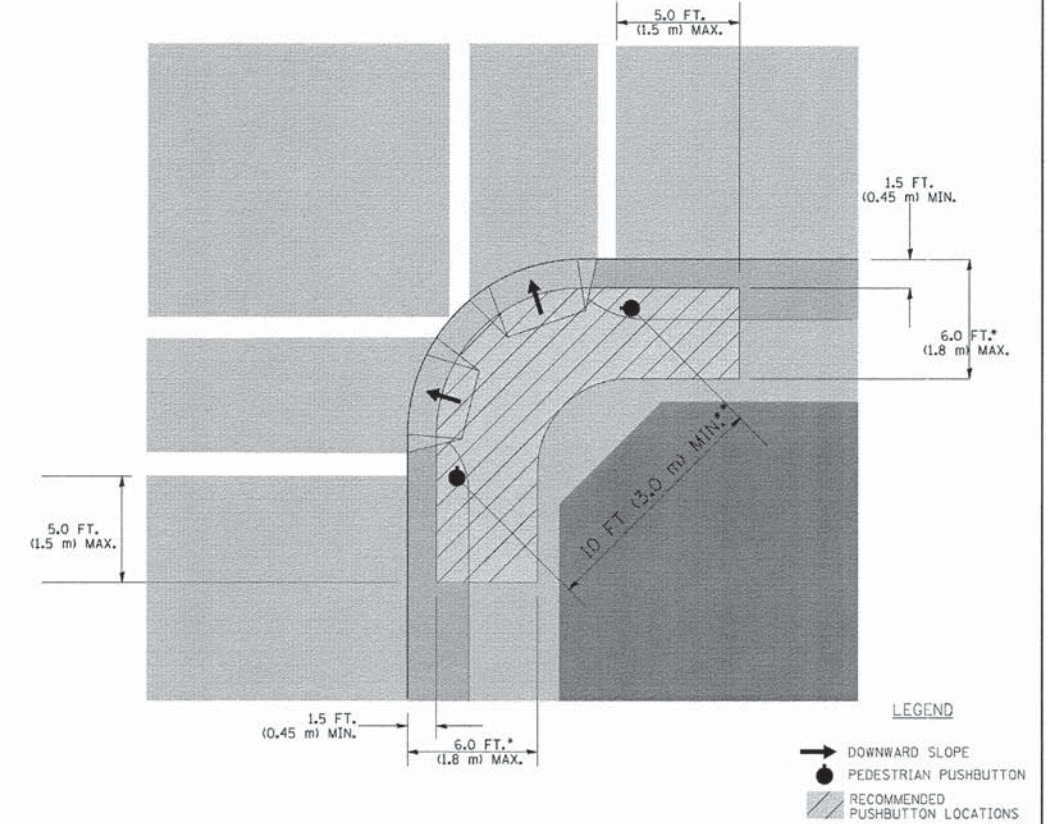
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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.

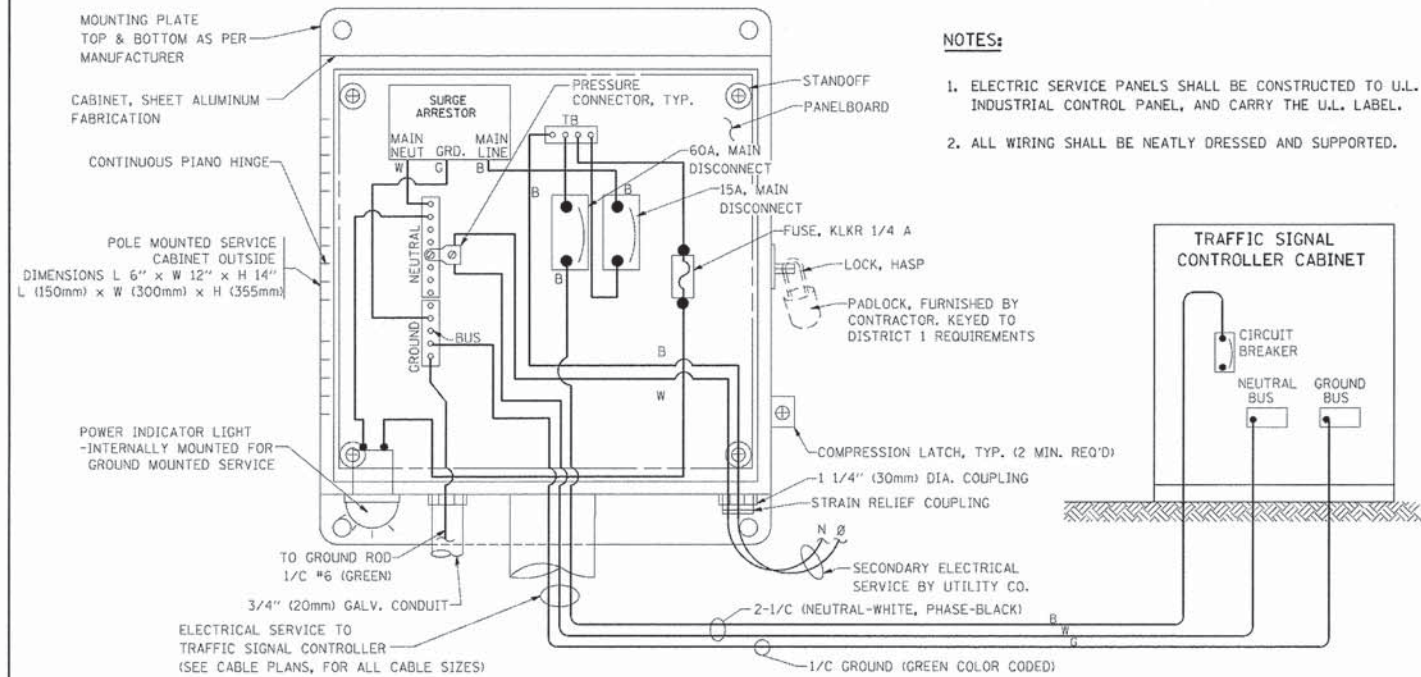
TRAFFIC SIGNAL EQUIPMENT OFFSET

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.

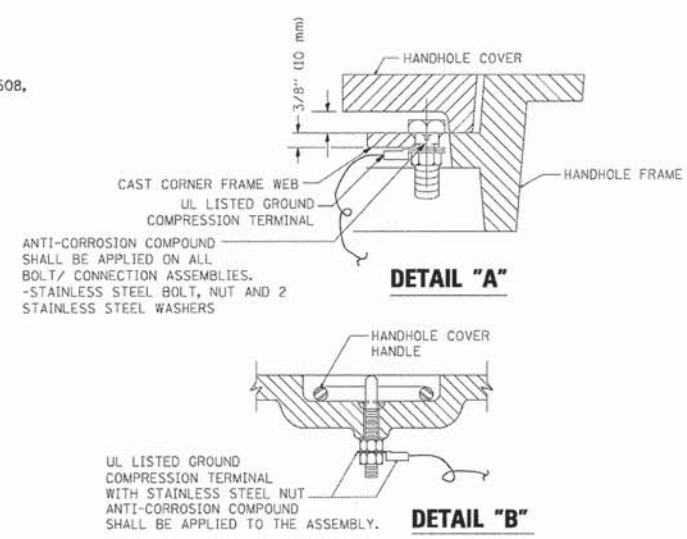
NOTES:

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 TO THE 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.

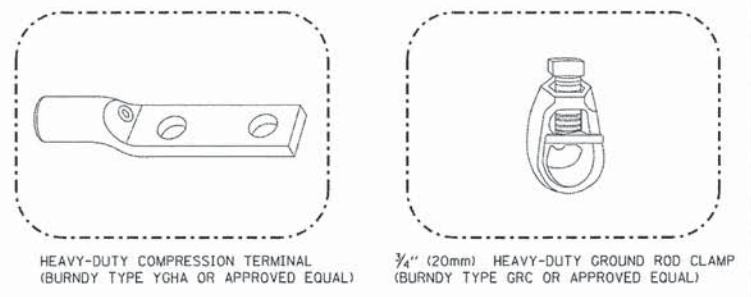
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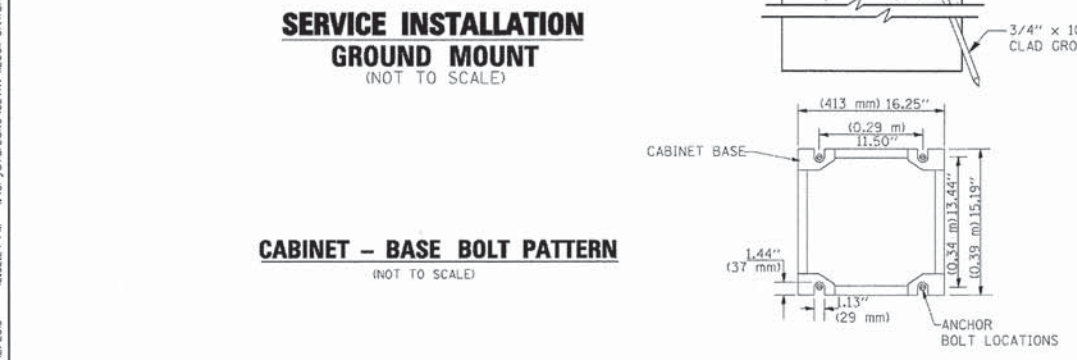
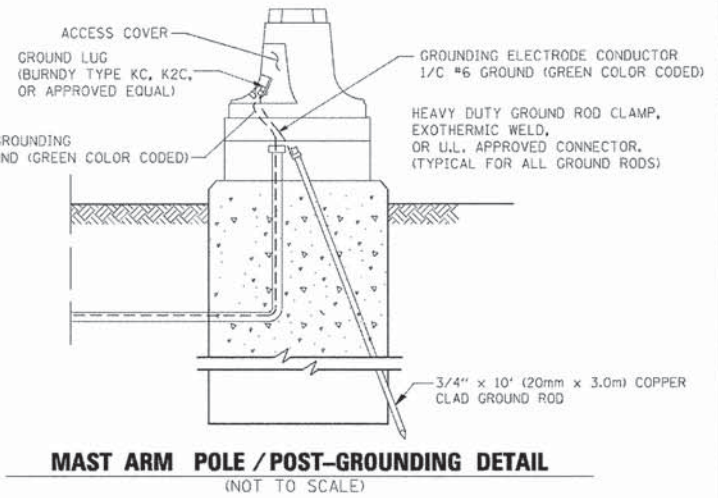
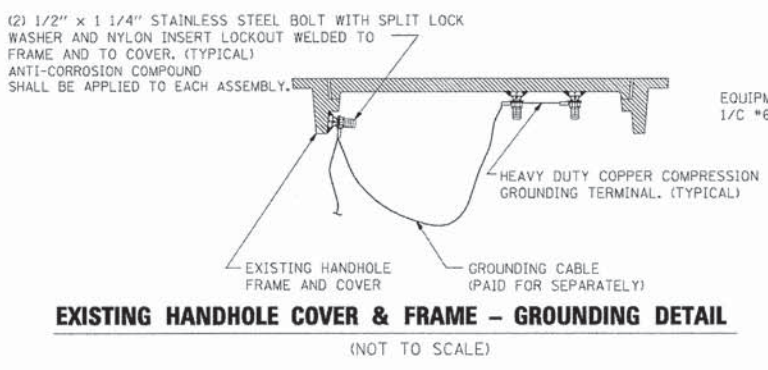
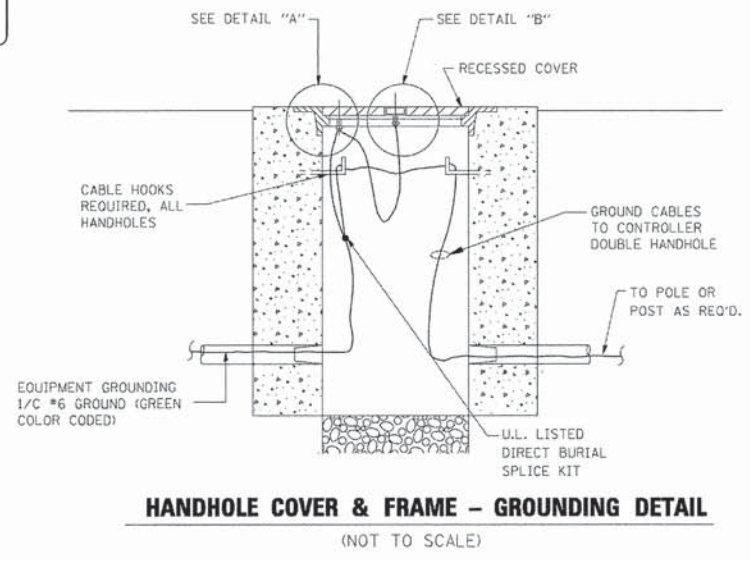
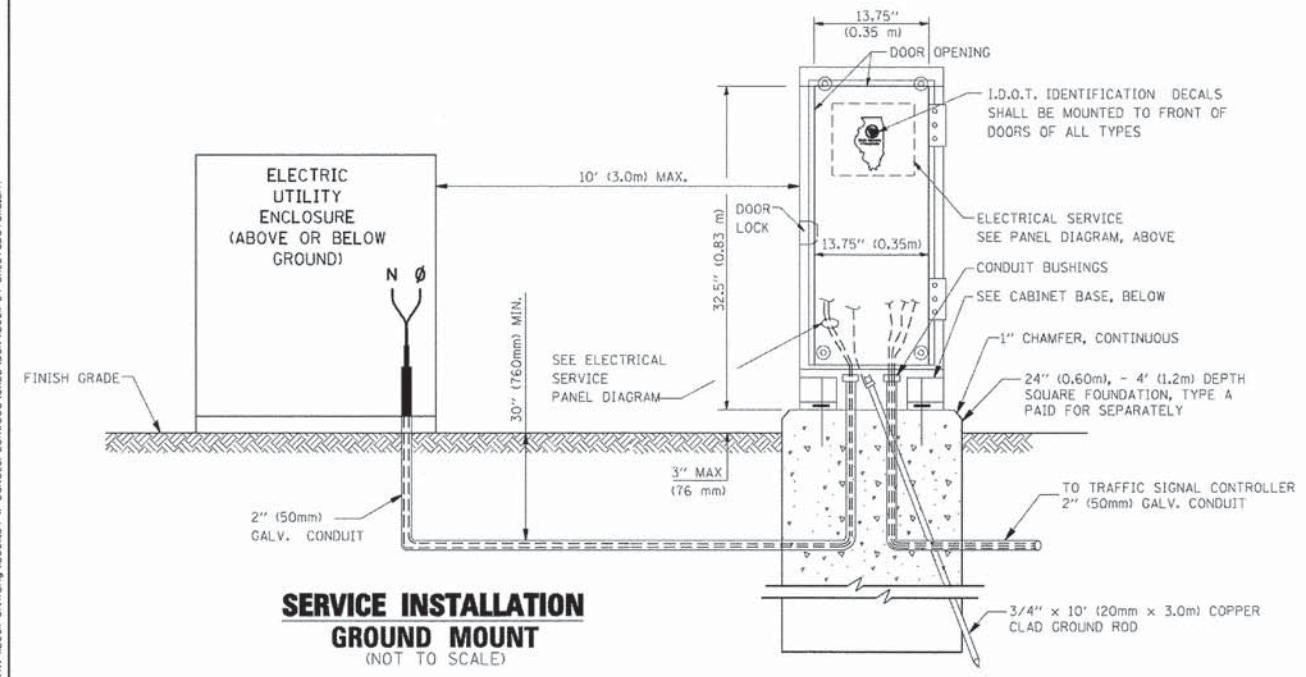
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- 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.
 - 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.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. 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.



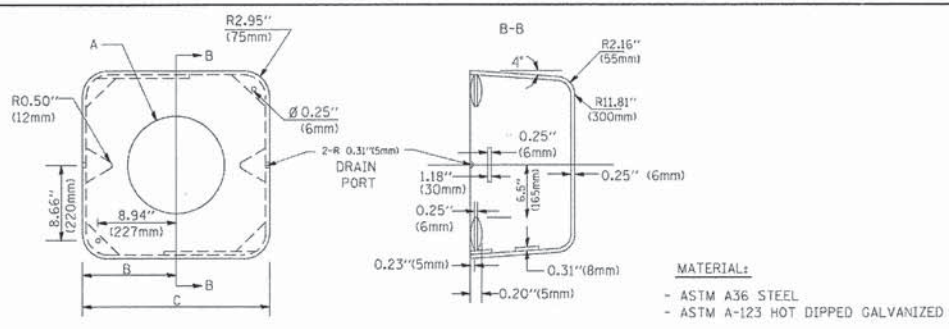
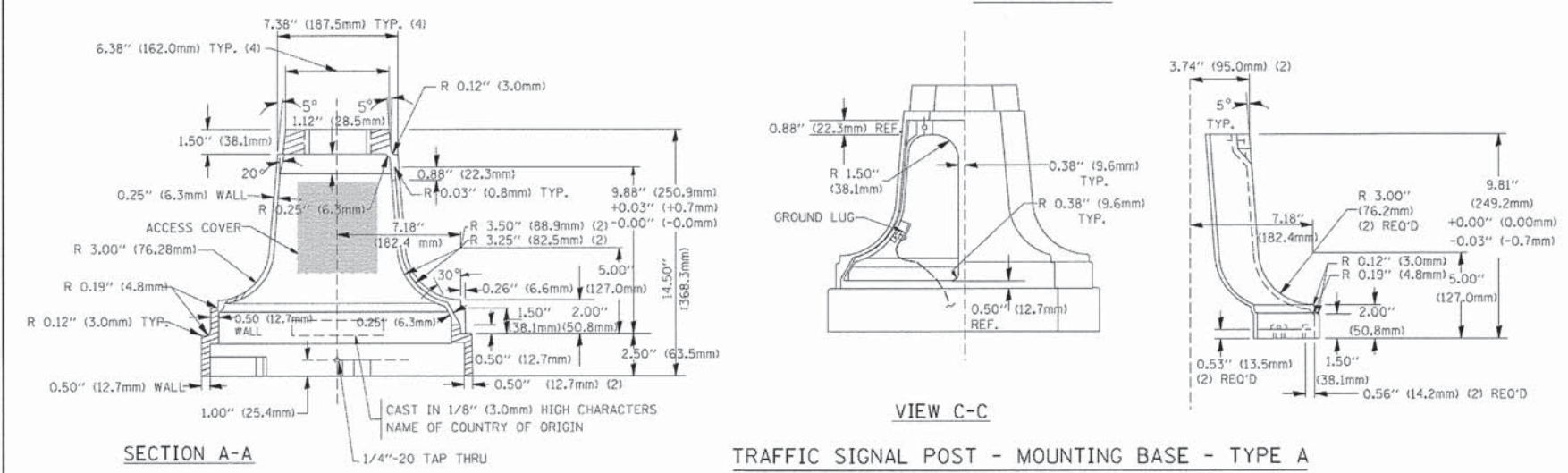
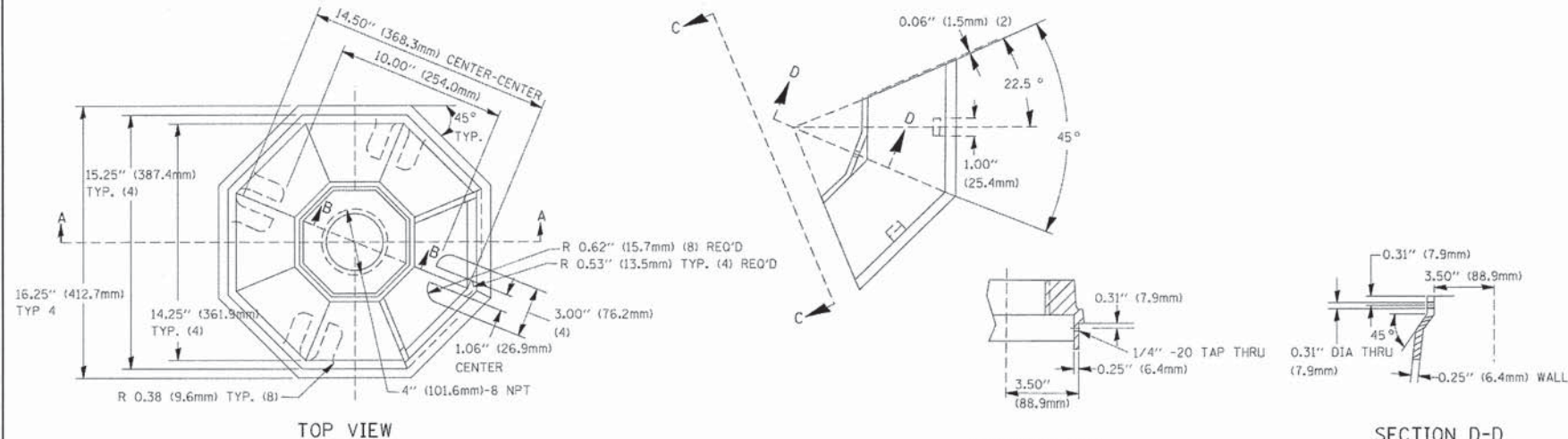
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 281/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 51
TS-05		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003086				

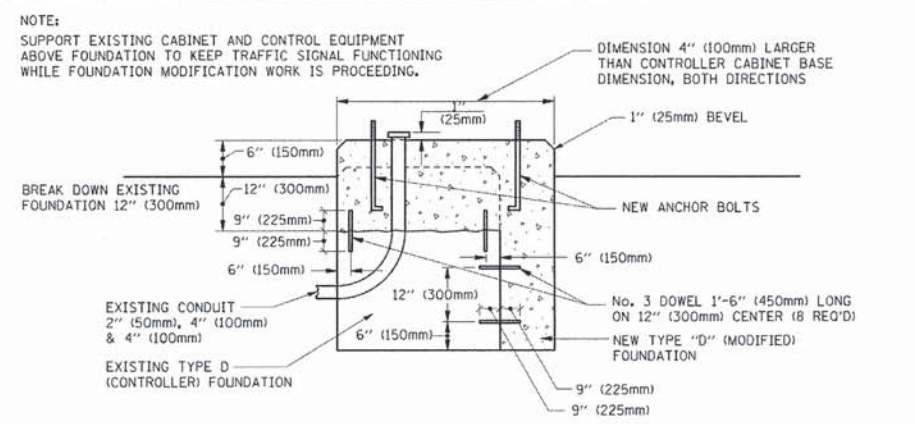
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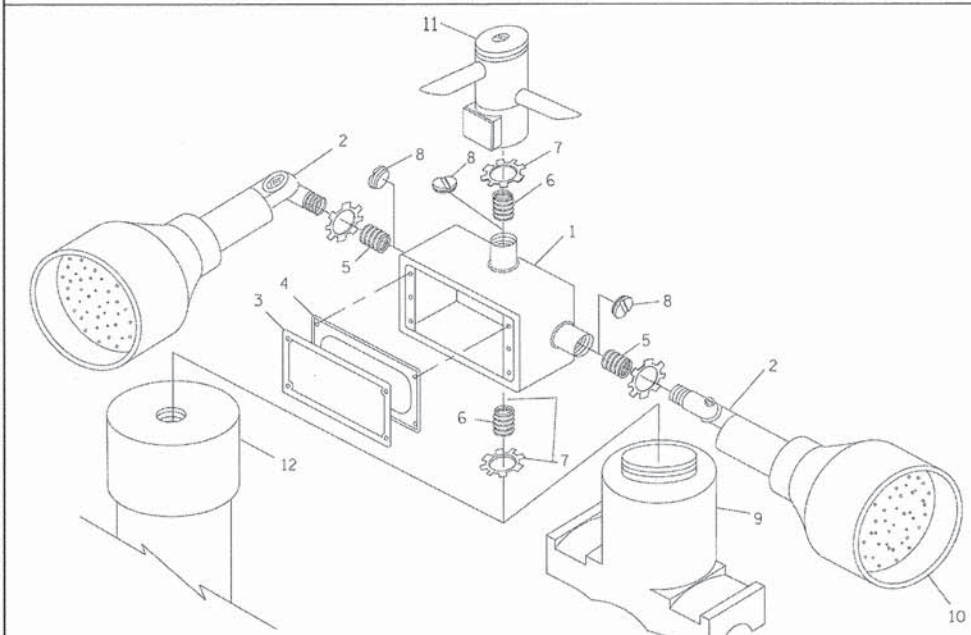
A	B	C	HEIGHT	WEIGHT
VARIES	9.5\"(241mm)	19\"(483mm)	7\"(178mm) - 12\"(300mm)	53 lbs (24kg)
VARIES	10.75\"(273mm)	21.5\"(546mm)	7\"(178mm) - 12\"(300mm)	68 lbs (31 kg)
VARIES	13.0\"(330mm)	26\"(660mm)	7\"(178mm) - 12\"(300mm)	81 lbs (37 kg)
VARIES	18.5\"(470mm)	37\"(940mm)	7\"(178mm) - 12\"(300mm)	126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

NOTES:

- 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.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



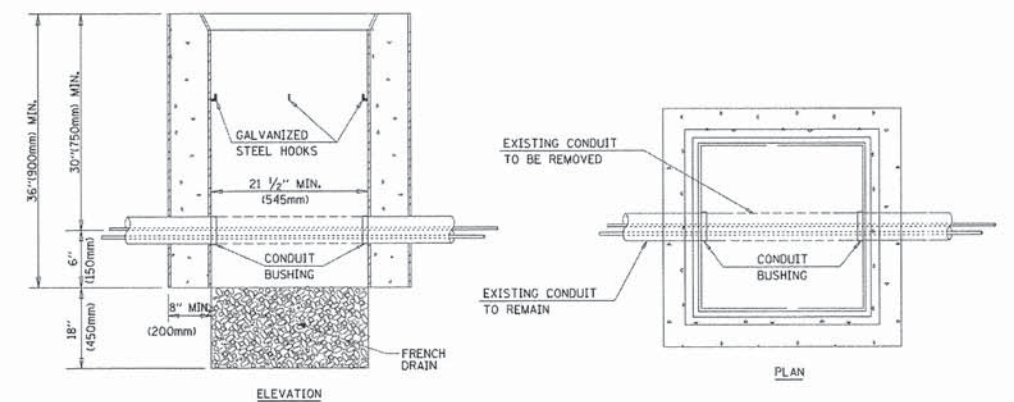
MODIFY EXISTING TYPE "D" FOUNDATION



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	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(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:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 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
- 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:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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 PROJECT: ILLINOIS STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 SHEET NO. 4 OF 6 SHEETS
 DATE: 10/28/09

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PLOT SCALE = 50.0000' / IN.		CHECKED - DAD	REVISED -
PLOT DATE = 11/4/2009		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2143	07-00164-02-RS	COOK	87	52
TS-05			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				EXISTING		PROPOSED	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

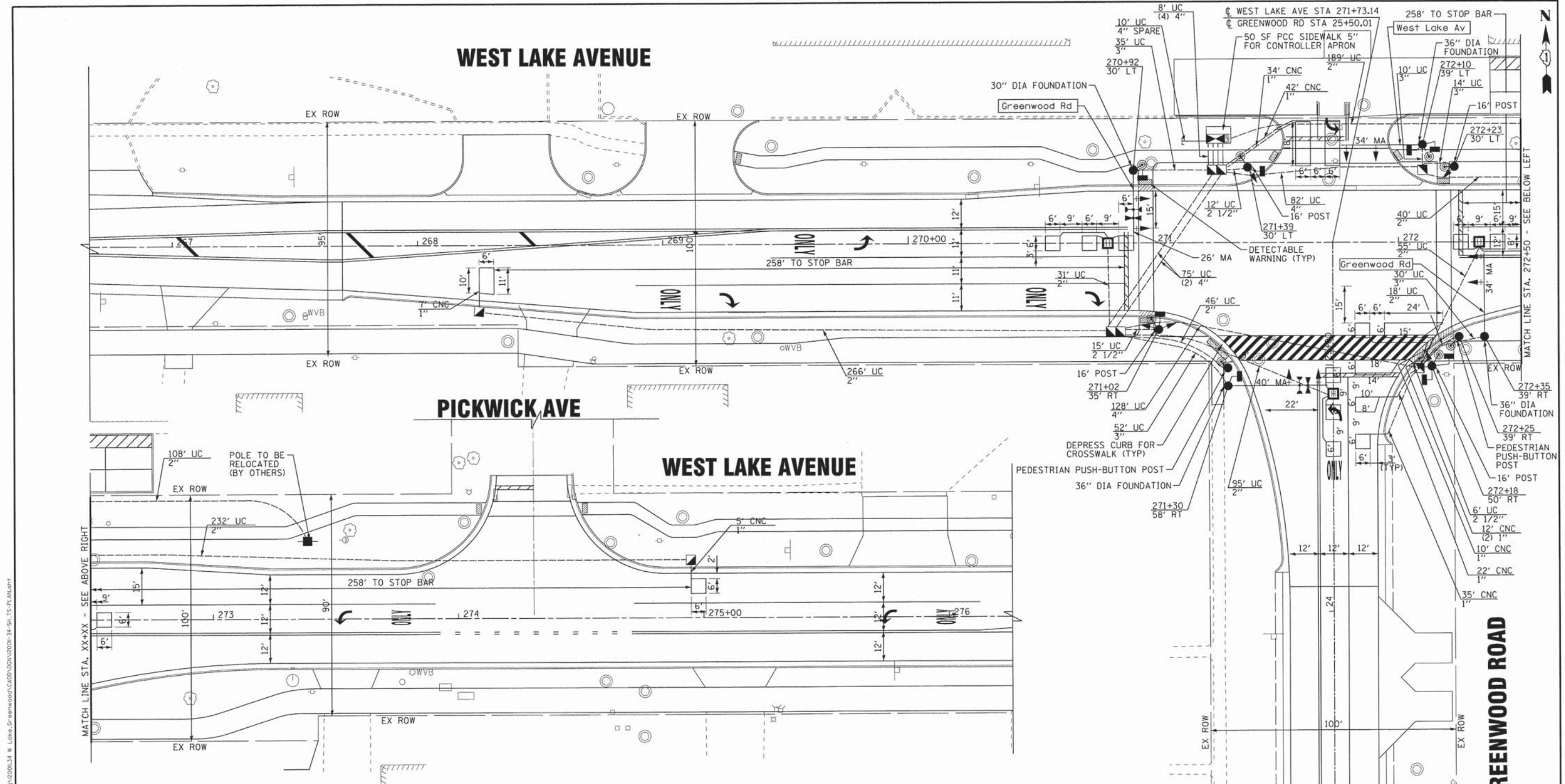
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PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 6 OF 6 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2143	07-00164-02-RS	COOK	87	54
TS-05		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-400310861				



GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800)892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- PROPOSED HANDHOLES, IF POSSIBLE, SHOULD BE PLACED A MINIMUM OF 1' FROM THE BACK OF CURBS.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALK, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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 PROJECT: 07-00164-02-RS
 SHEET: 87 OF 88
 DATE: 12/9/13
 FILE: 120011-34-SH-TS-PLAN.sht



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	FILE - 120011-34-SH-TS-PLAN.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
WEST LAKE AVENUE AND GREENWOOD ROAD**

SCALE: 1"=20'

STA. TO STA.

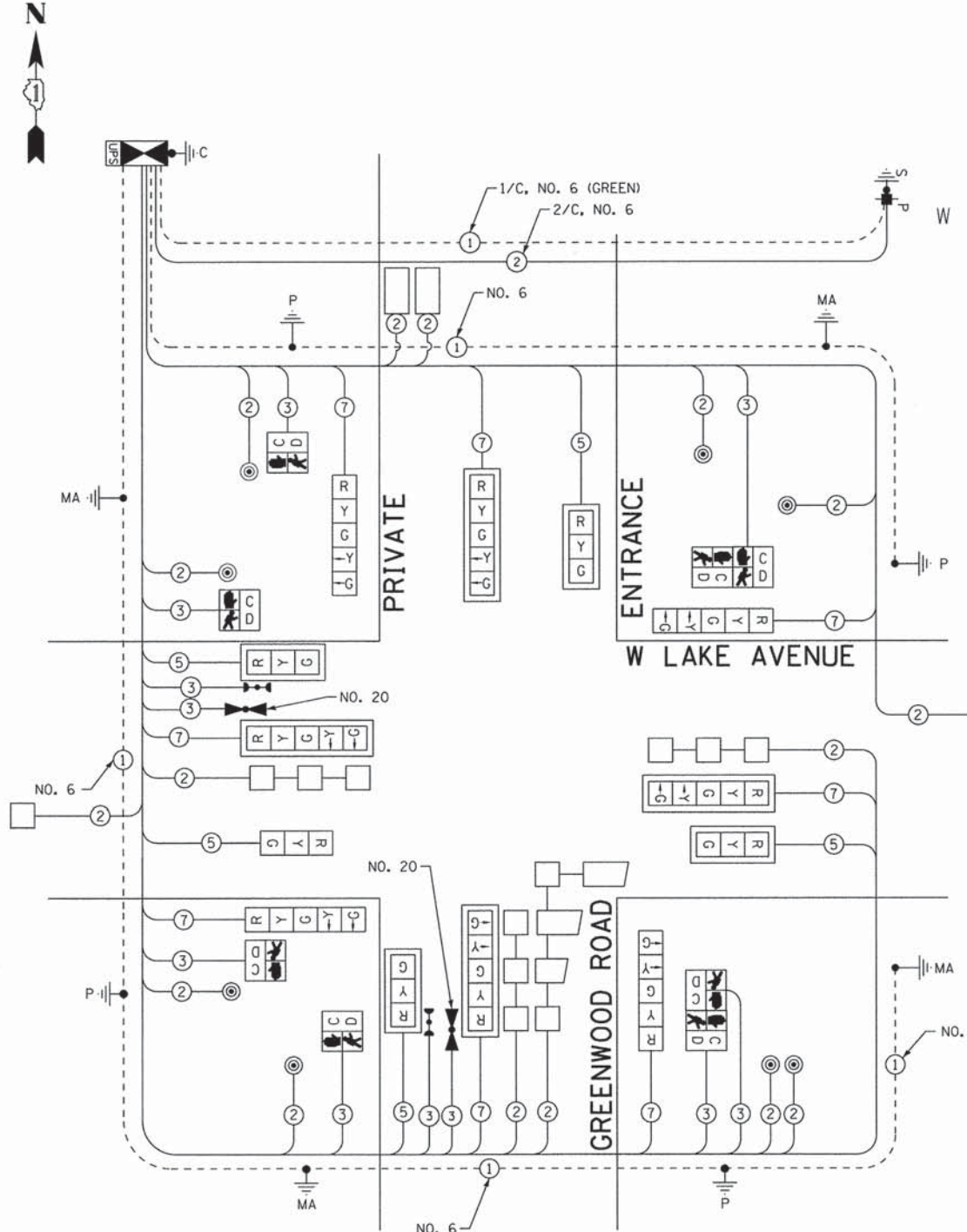
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C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-40030861				

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	50
SIGN PANEL - TYPE 1	SQ FT	27
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1144
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	51
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	141
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	402
HANDHOLE	EACH	4
HEAVY DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1218
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1589
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	920
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1436
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1828
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	322
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1682
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
PEDESTRIAN PUSH-BUTTON POST, TYPE 1	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	25
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	751
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	315
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1

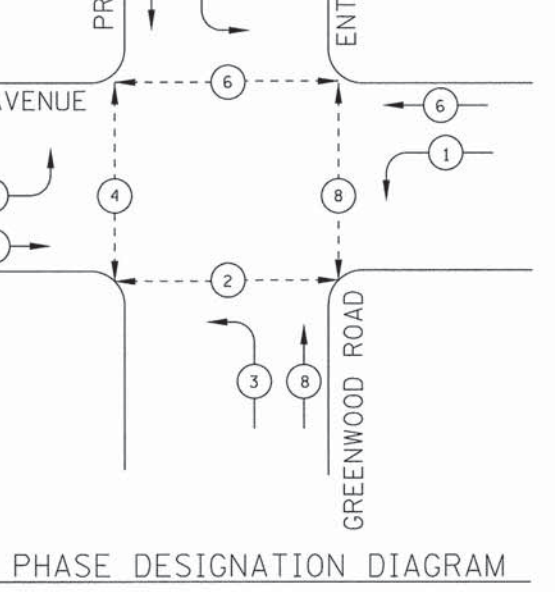
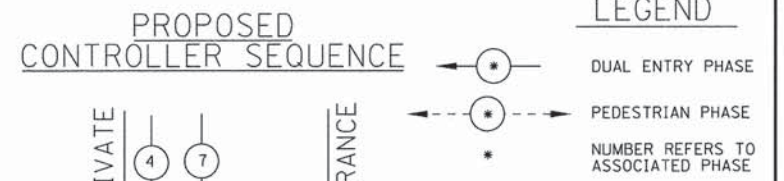
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN			90	0.50	
VIDEO DET.			150	1.00	
LUMINAIRE				0.50	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	541.20

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHALMBURG, ILLINOIS 60196-1096

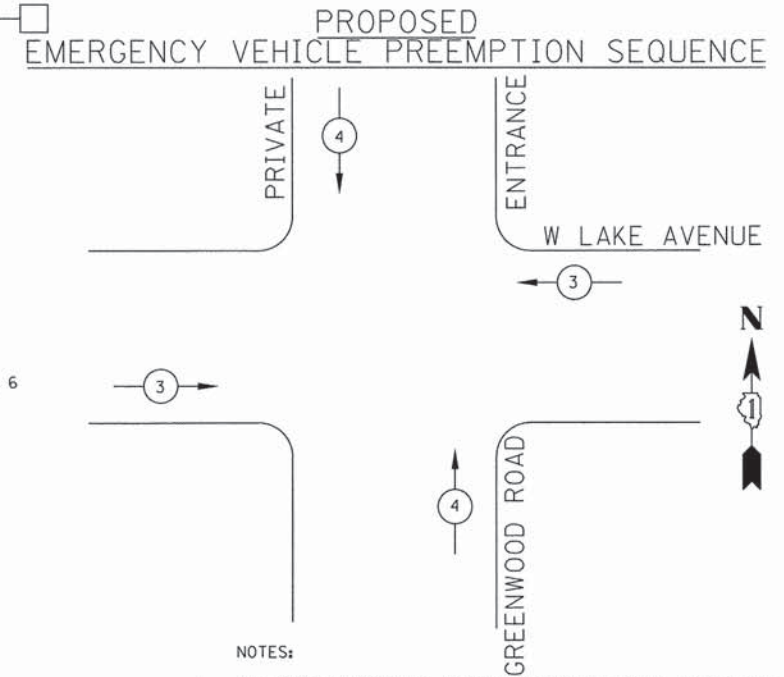
ENERGY SUPPLY CONTACT: MAUREEN RAY
PHONE: 847-816-5492
COMPANY: COM. ED.



CABLE PLAN



PHASE DESIGNATION DIAGRAM



- NOTES:
- THE PRIORITY CONTROL SYSTEM EQUIPMENT SHALL MATCH THE EXISTING EQUIPMENT TYPE ON ADJACENT SIGNAL SYSTEMS.

PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	← →	↑ ↓

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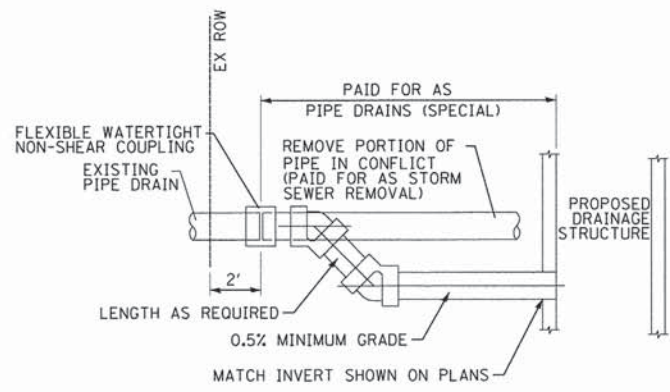
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN AND
PHASE DESIGNATION DIAGRAM
W LAKE AVENUE AND GREENWOOD ROAD

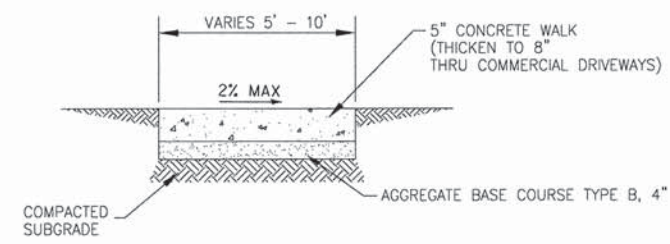
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-R5	COOK	87	56
	C-91-028-13			CONTRACT NO. 63878
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40030661				



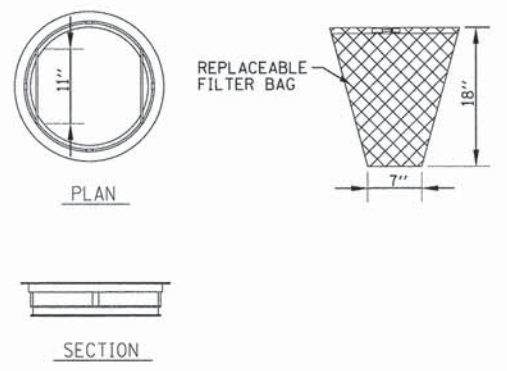
NOTES:
PROPOSED PIPE SIZE SHALL MATCH EXISTING SIZE OR 6" MINIMUM.

PIPE DRAINS (SPECIAL) DETAIL
(NOT TO SCALE)



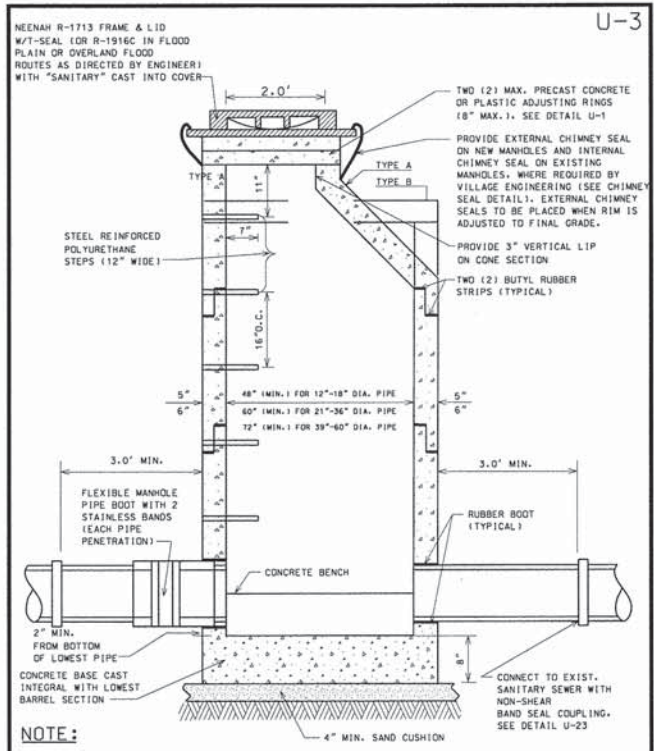
NOTE:
PROVIDE FIBER 3/4" EXPANSION JOINTS WHERE NEW SIDEWALK MEETS EXISTING AND @ 50' O.C. MAX. AND PROVIDE CONTROL JOINTS AS DETERMINED BY THE ENGINEER.

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
NO SCALE



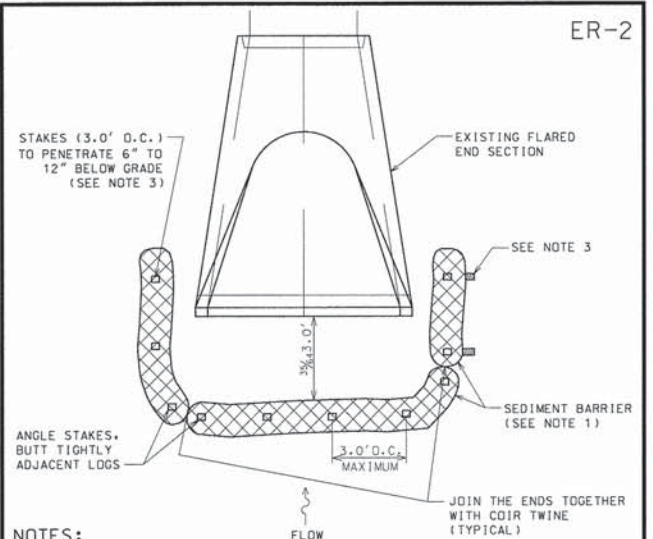
GENERAL NOTES:
FRAME: TOP RING CONSTRUCTED FROM 1 1/4" X 1 1/4" X 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" X 1/2" X 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" X 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.
REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

INLET FILTER
NO SCALE



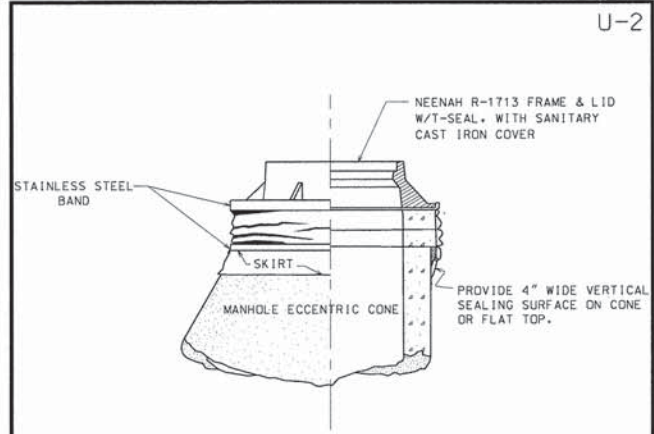
NOTE:
1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL SANITARY SEWER MANHOLES.
4. USE EXTERNAL LIFTING "HOLES" ONLY, BUT NOT FULL PENETRATION.
5. ALL PIPE PENETRATIONS AND ALL NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.
6. USE ECCENTRIC CONE ONLY.
* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5.

NOT TO SCALE
SANITARY MANHOLE DETAIL
REVISED:01-01-13



NOTES:
1. COIR LOGS, GRAVEL BAGS (OR APPROVED BY THE ENGINEER EQUAL) EROSION CONTROL AND SEDIMENT BARRIER MATERIAL SHALL BE USED.
2. SEDIMENT BARRIERS SHALL BE PLACED WITH ENDS TIGHTLY ABUTTING THE ADJACENT SEDIMENT BARRIERS TO CREATE A CONTINUOUS BARRIER.
3. WOODEN WEDGES AND/OR STAPLES AS PER MANUFACTURER'S PRODUCT SPECIFICATIONS MAY BE USED FOR SEDIMENT BARRIER STABILIZATION.
4. INSPECTION OF SEDIMENT BARRIERS SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (1/2") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SEDIMENT BARRIER SHALL BE MADE PROMPTLY AS NEEDED.
5. REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH AT THE BARRIER IS APPROXIMATELY EQUAL TO ONE-HALF OF BARRIERS HEIGHT.
6. SEDIMENT BARRIERS SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

NOT TO SCALE
FLARED END SECTION EROSION CONTROL DETAIL
REVISED:01-01-13

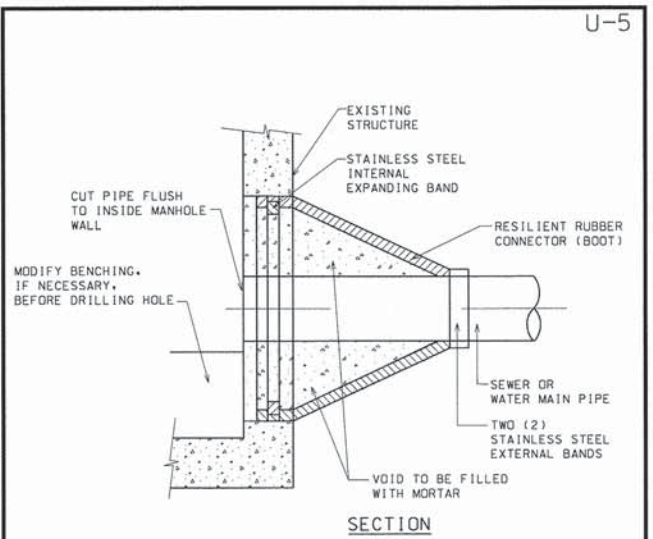


INTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:
0 - 4 1/2" CHIMNEY SEAL ONLY
4 1/2" TO 9" SEAL + 7" EXTENSION
9" TO 12" SEAL + 10" EXTENSION
OVER 12" SEAL + MULTI. EXTENSIONS

EXTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:
0 - 3" NARROW (6") SEAL ONLY
3 TO 6 1/2" STANDARD (9") SEAL ONLY
6 1/2" TO 12" STD. SEAL + EXTENSION
OVER 12" SEAL + MULTI. EXTENSIONS

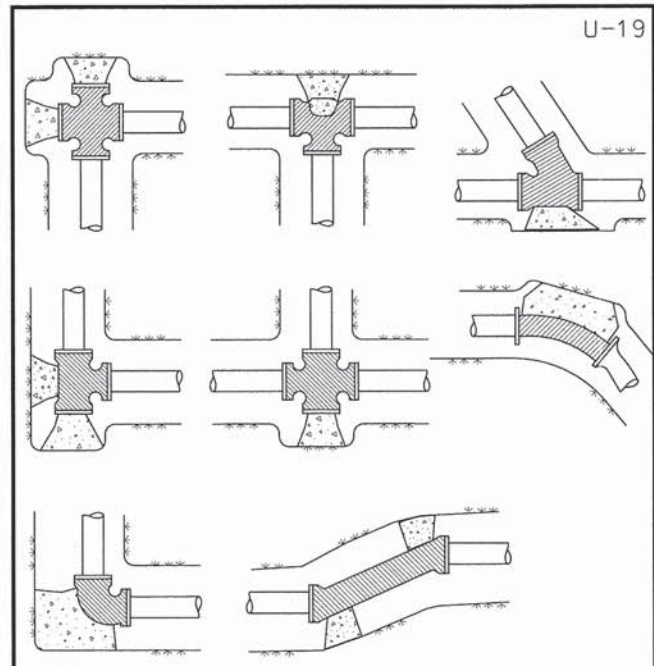
NOTE:
1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER
2. IF INTERNAL SEALS ARE USED, THE STRUCTURE, INCLUDING ADJUSTMENT RINGS, MUST BE INSPECTED BY VILLAGE
3. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOT TO SCALE
CHIMNEY SEAL DETAIL
REVISED:01-01-13



NOTES:
1. RESILIENT RUBBER CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
2. CORE-DRILL CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER NECESSARY TO FIT THE REQUIRED BOOT SIZE.
3. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW CONNECTION.
4. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

NOT TO SCALE
PIPE CONNECTION TO EXISTING STRUCTURE DETAIL
REVISED:01-01-13



NOTE:
1. ALL BENDS OF 10" AND LARGER SHALL BE BLOCKED WITH AT LEAST 10" THICK POURED IN PLACE CONCRETE BLOCKS AGAINST UNDISTURBED VERTICAL EARTH FACE.
2. ALL CONCRETE TO BE MIN. 3,000 PSI.
3. IN ADDITION TO THE ABOVE THRUST BLOCKING: ALL MECHANICAL JOINTS, (BENDS OVER 10, TEES, CROSSES, VALVES AND FIRE HYDRANTS) SHALL HAVE A "MEGALUG" RESTRAINT, OR AS APPROVED BY VILLAGE ENGINEERING. BOLTS SHALL BE "COR-TEN".

NOT TO SCALE
THRUST BLOCK DETAIL
REVISED:01-01-13

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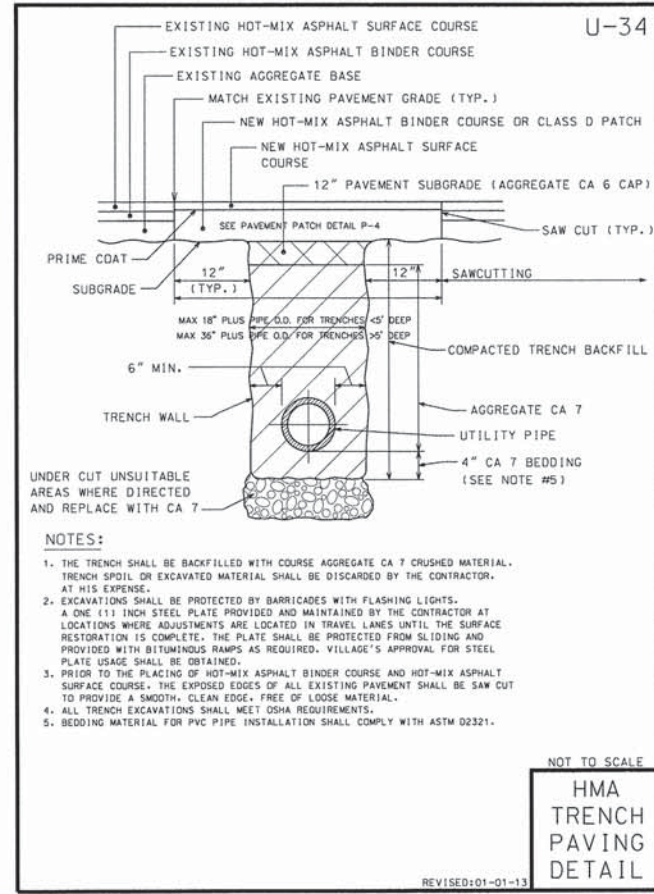
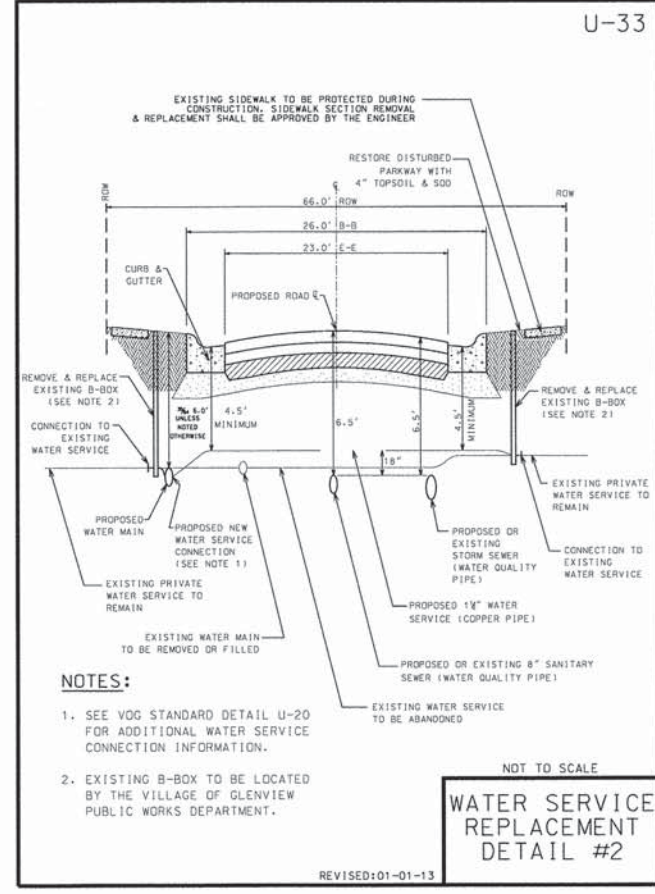
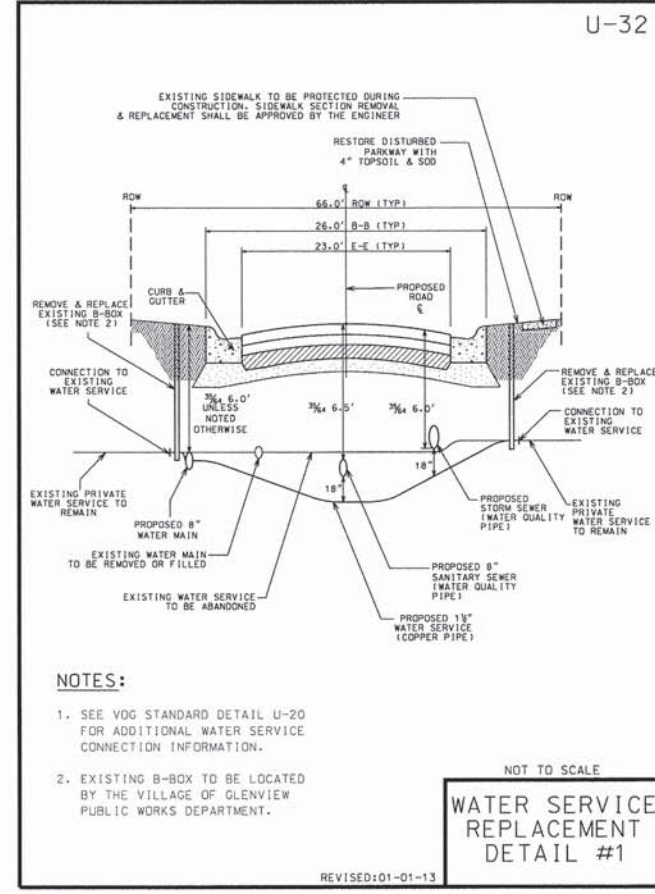
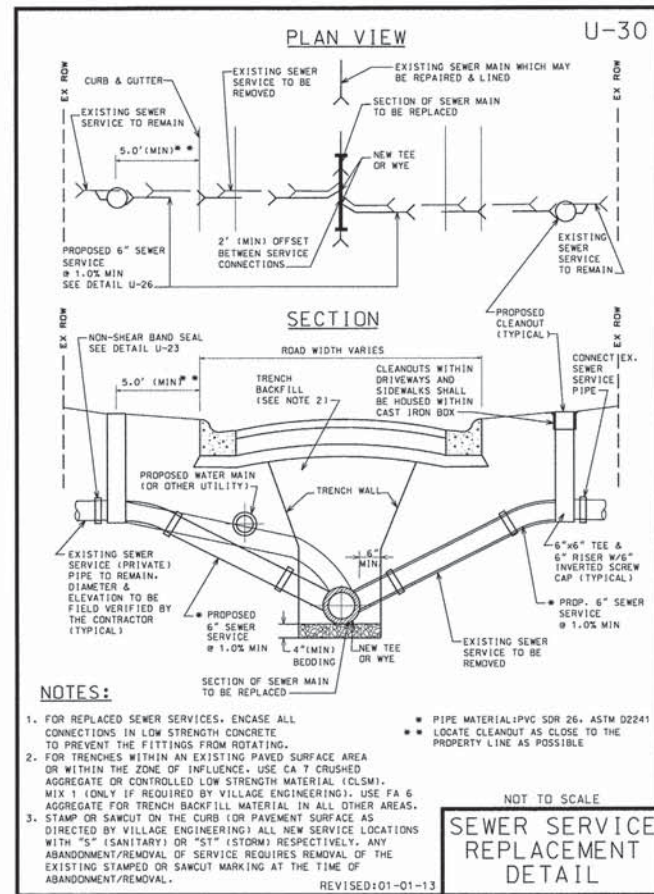
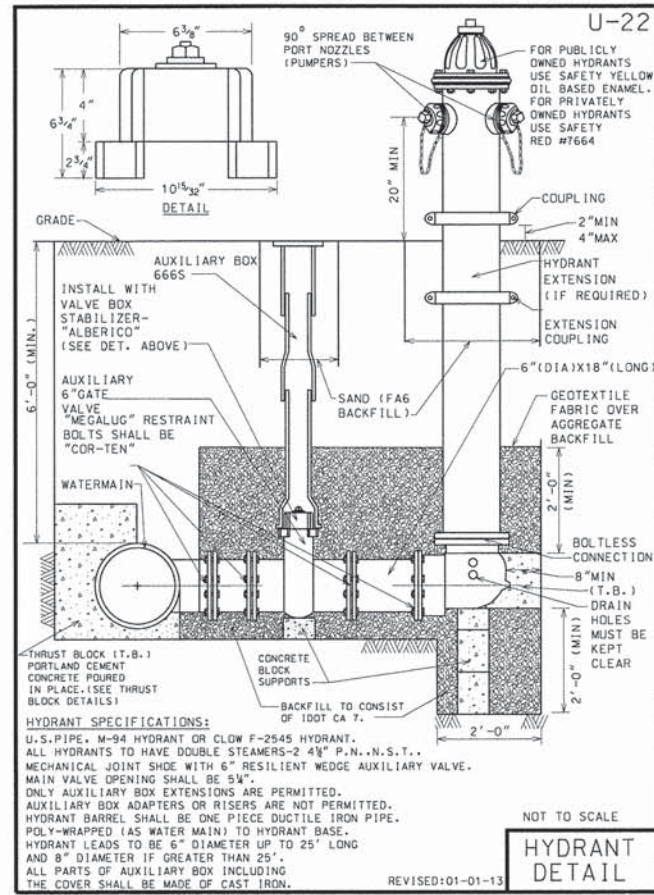
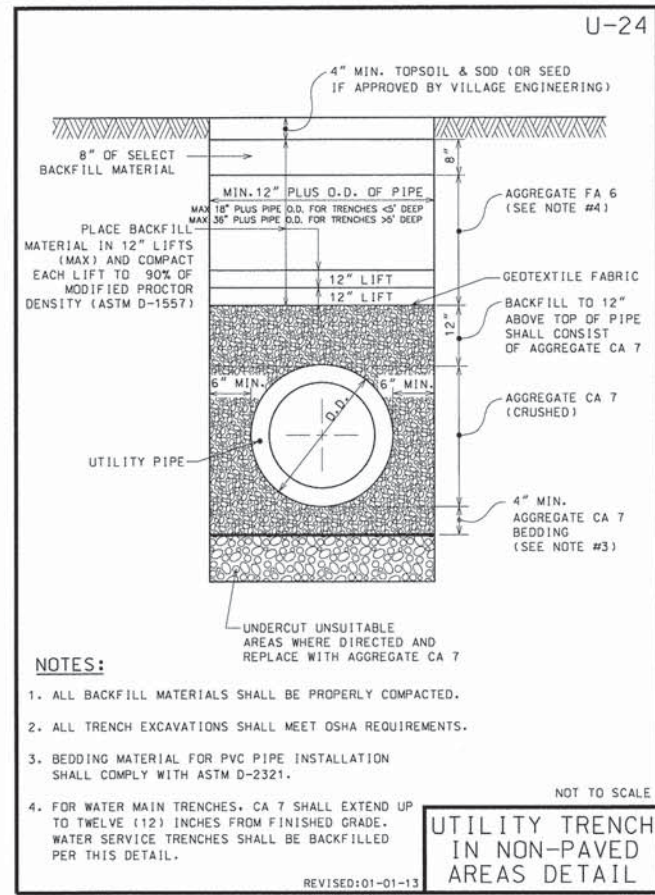
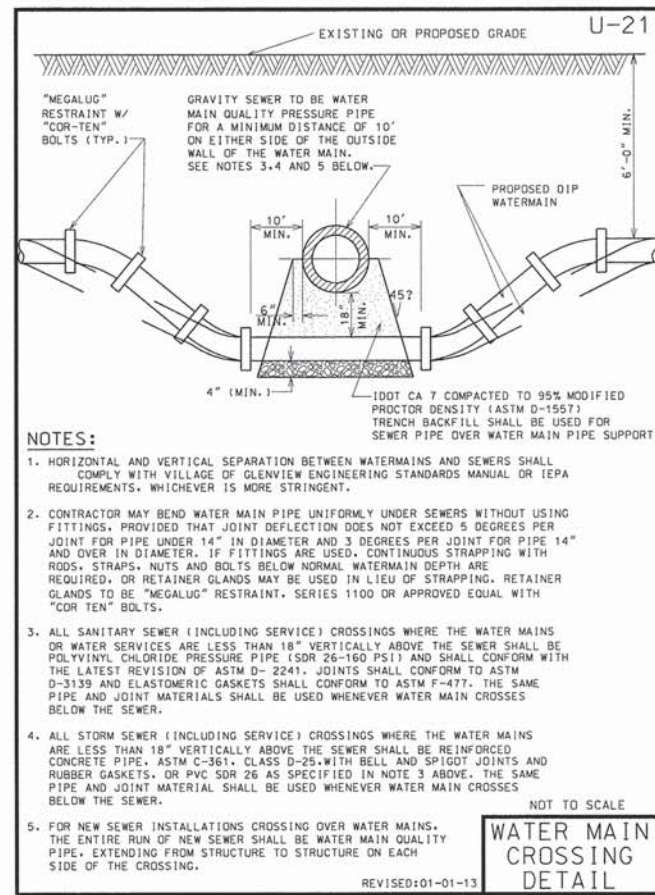
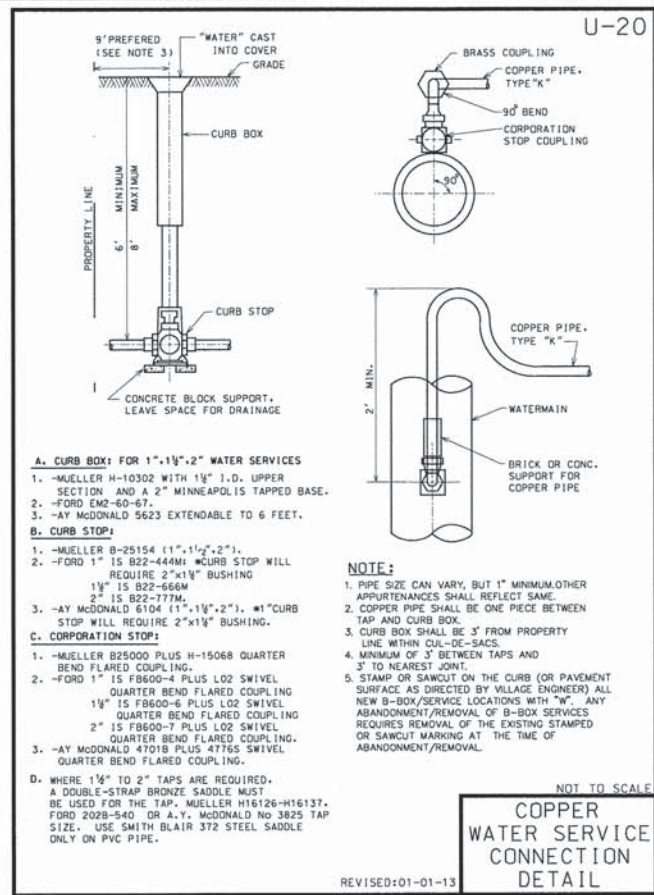
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	58
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



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 12/27/2013



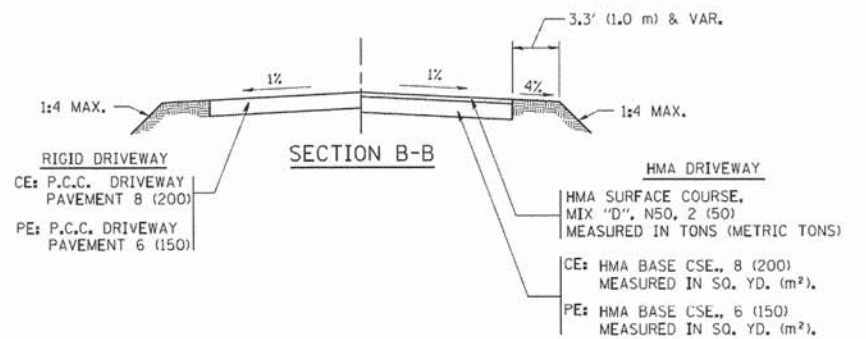
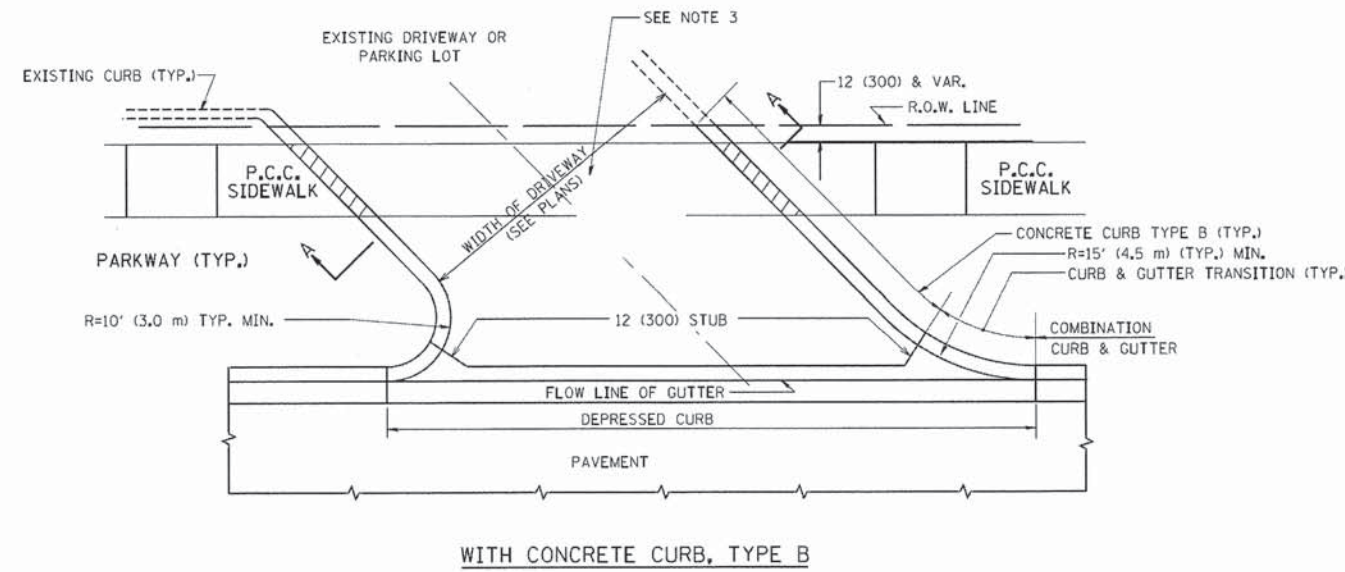
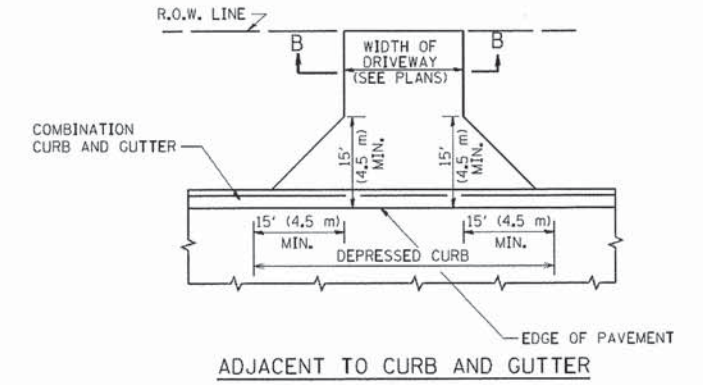
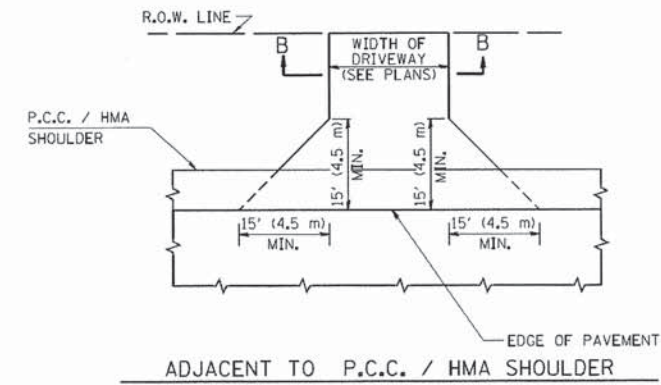
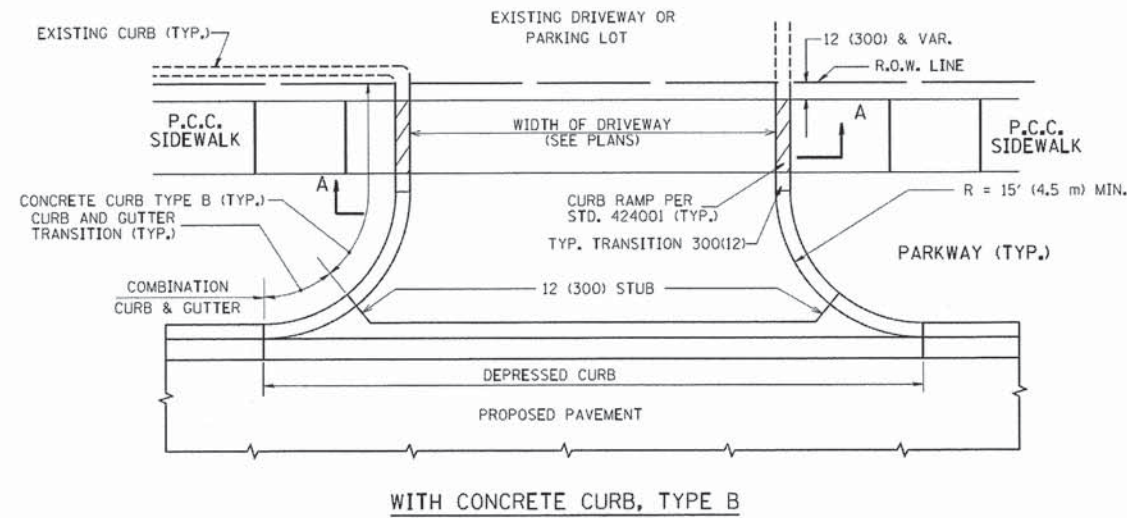
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS

SCALE: NONE STA. TO STA.

F.A.U. RTE. 1284/2743	SECTION 07-00164-02-R5	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 59
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				



GENERAL NOTES:

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

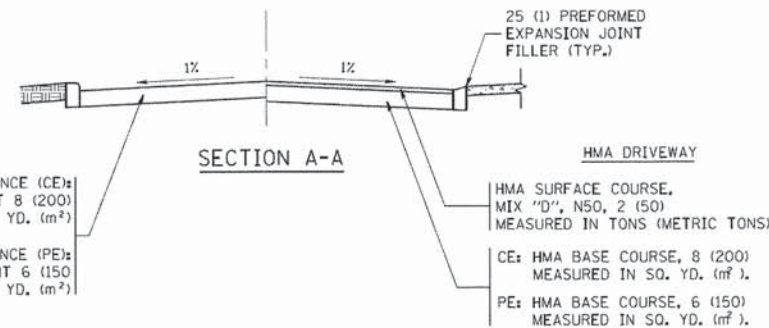
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



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FILE NAME =	USER NAME = jeyso	DESIGNED - R. SHAH	REVISED - P. LOFLUER 04-15-03
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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

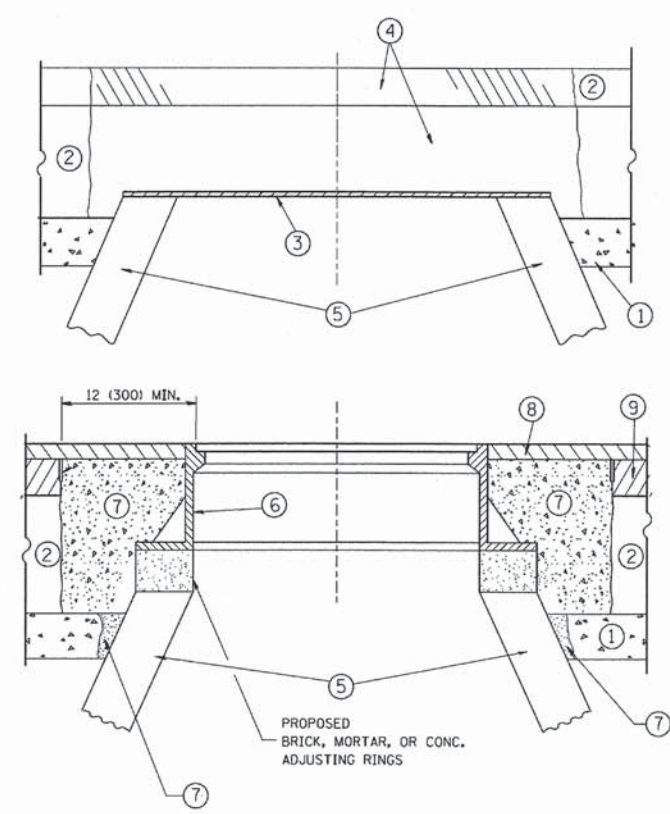
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2743	07-00164-02-RS	COOK	87	60
BD0156-07 (BD-01)			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-4003(086)				

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CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.
- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

NOTES:

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

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

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

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

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

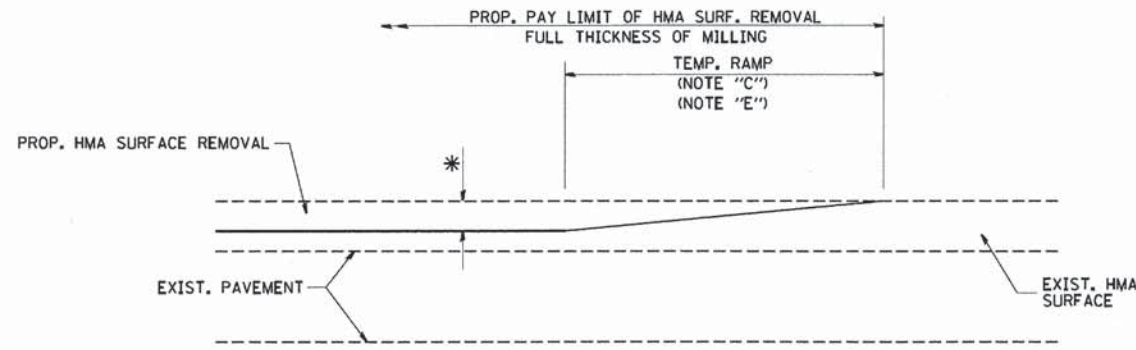
THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

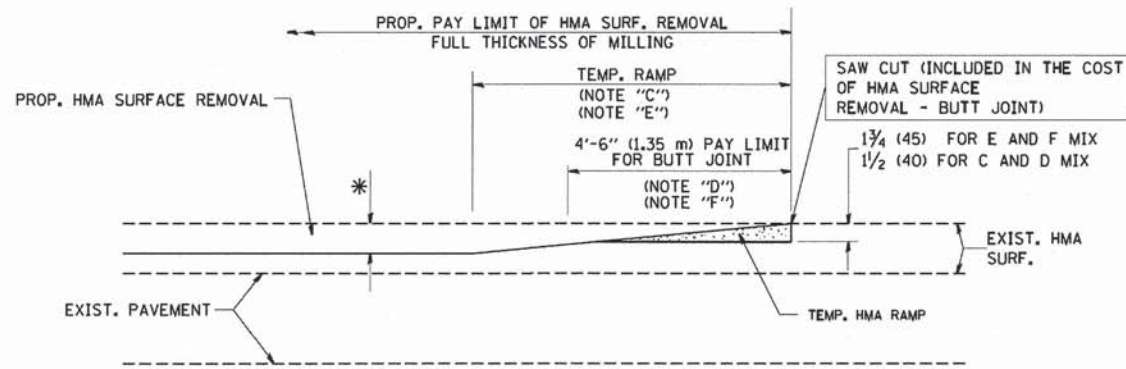
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bauead	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING				F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwwork\psdot\bauead\1\0108315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07		284/2743	07-00164-02-RS	COOK	87	62				
PLOT SCALE = 1/64" = 1' / 16"		CHECKED -	REVISED - R. BORO 03-09-11		BD600-03 (BD-8)				CONTRACT NO. 63878				
PLOT DATE = 12/6/2011		DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-40030861				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

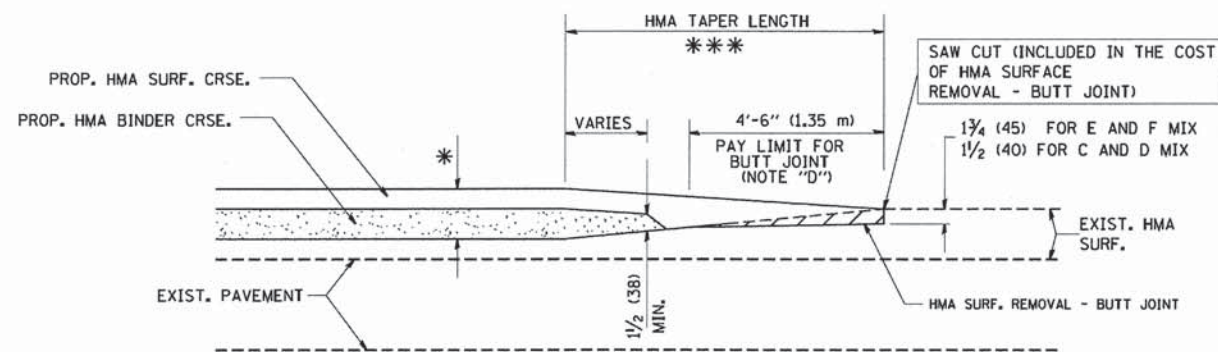
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

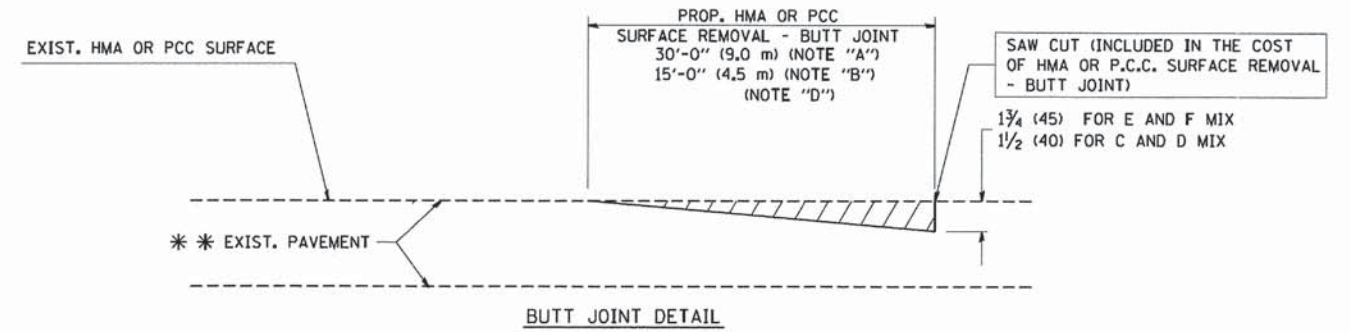
OPTION 2

TYPICAL TEMPORARY RAMP

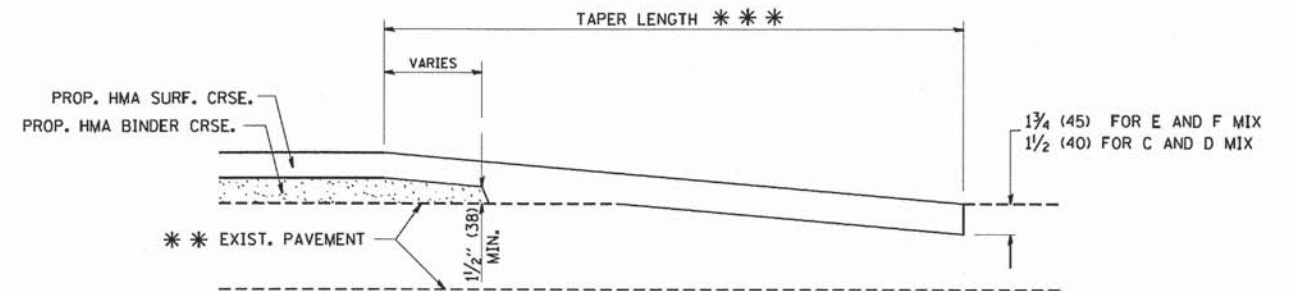


BUTT JOINT AND
HMA TAPER

**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

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

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

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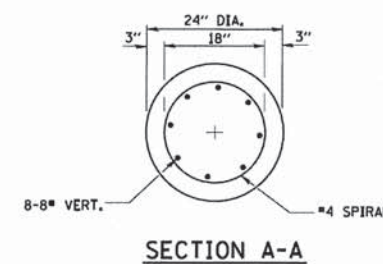
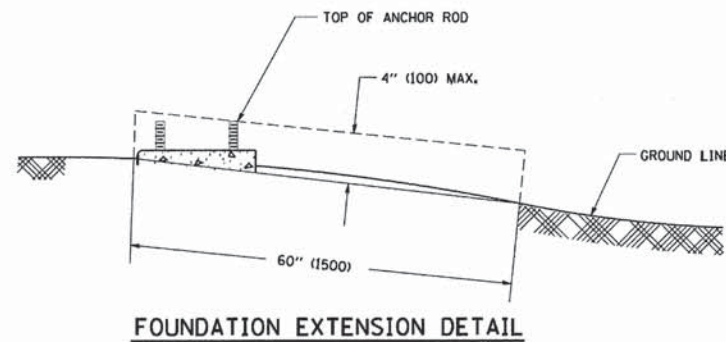
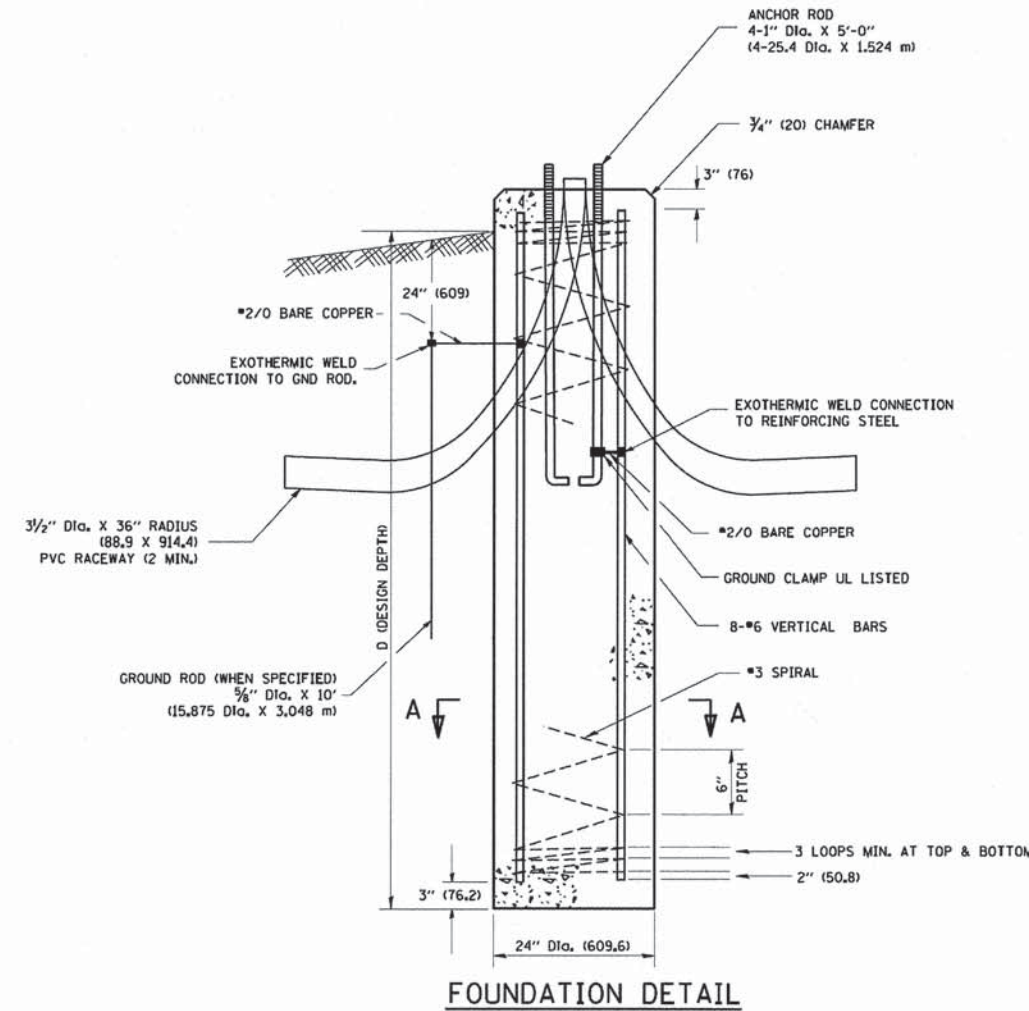
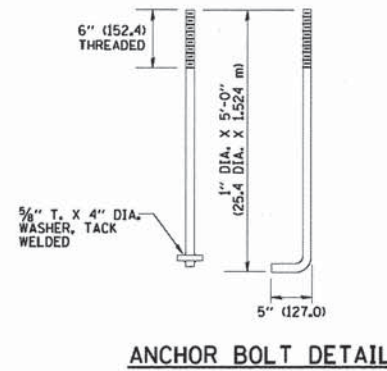
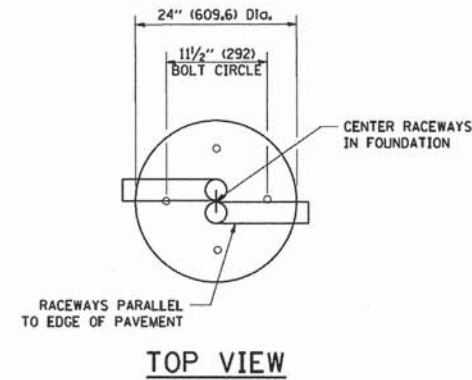
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2143	07-00164-02-RS	COOK	87	64
BD400-05 BD32			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400(1086)				

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



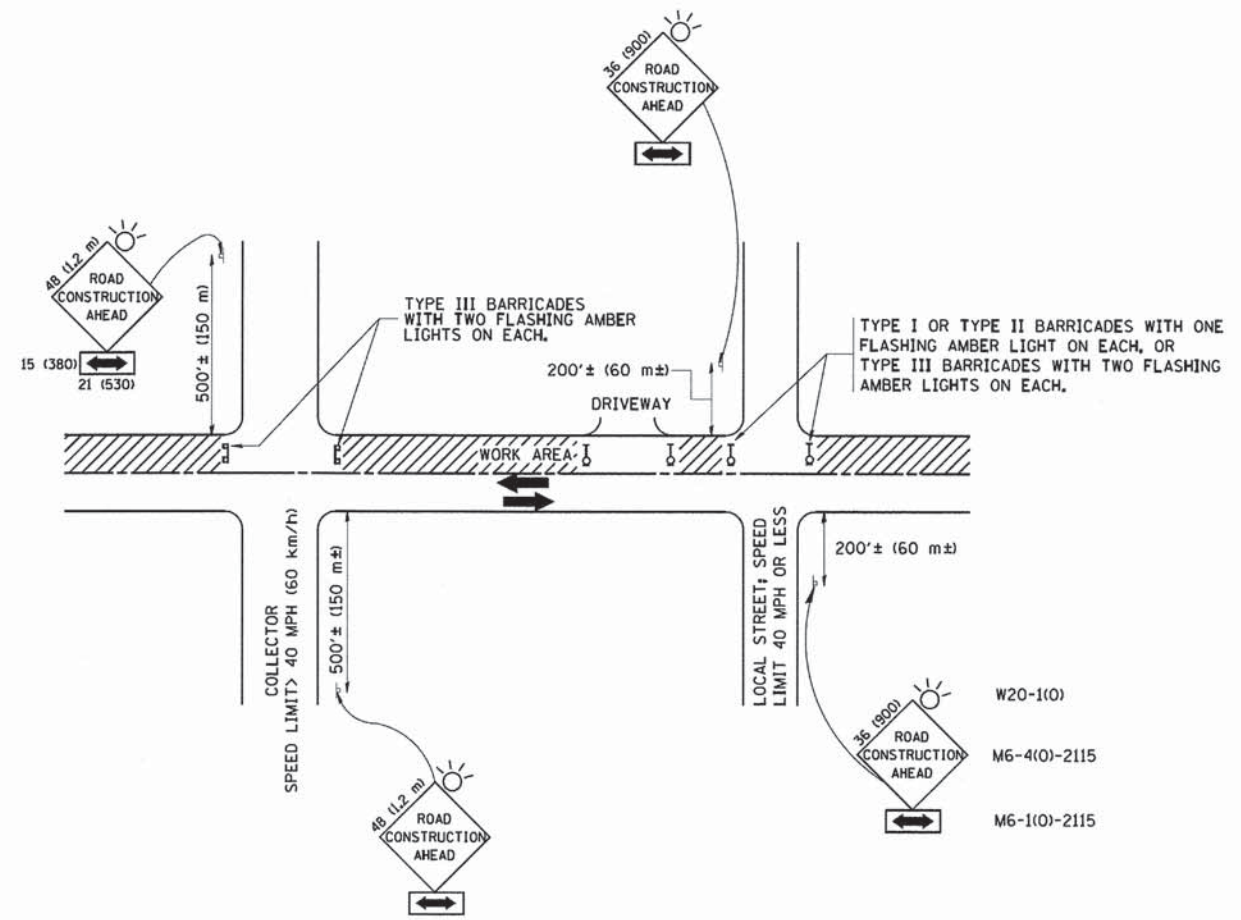
NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 0H, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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PLOT SCALE = 50.0000 ' / IN.	CHECKED -	DATE -	REVISED -		30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE			1284/2743	07-00164-02-RS	COOK	87	65
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BE-300		CONTRACT NO. 63878		
								FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-4003(086)				

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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 - 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 AND FLAG 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. 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

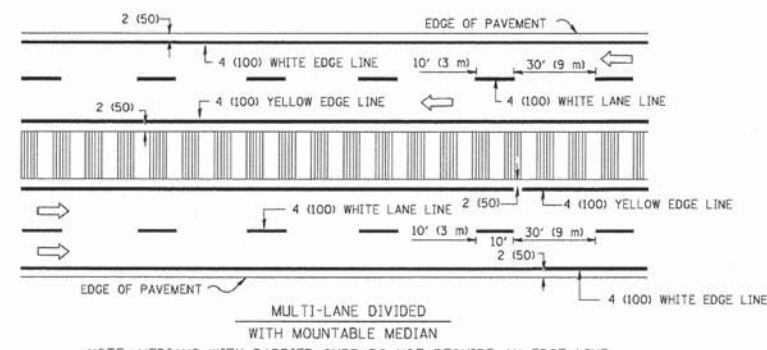
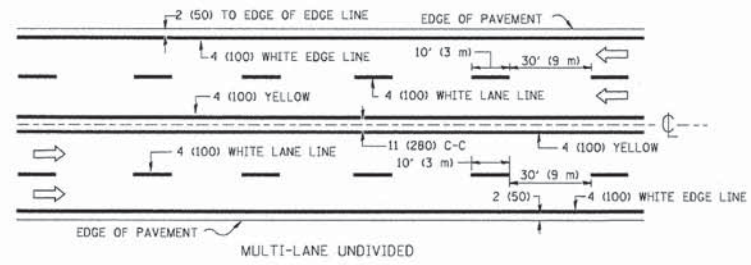
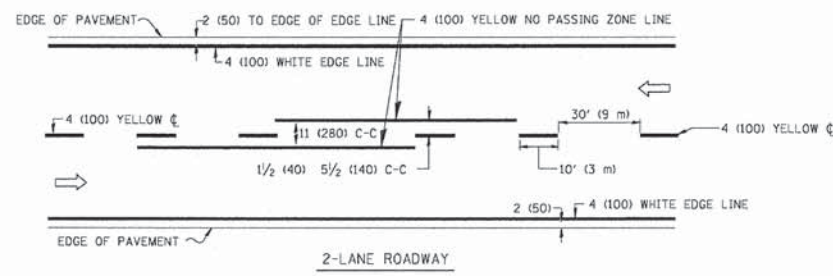
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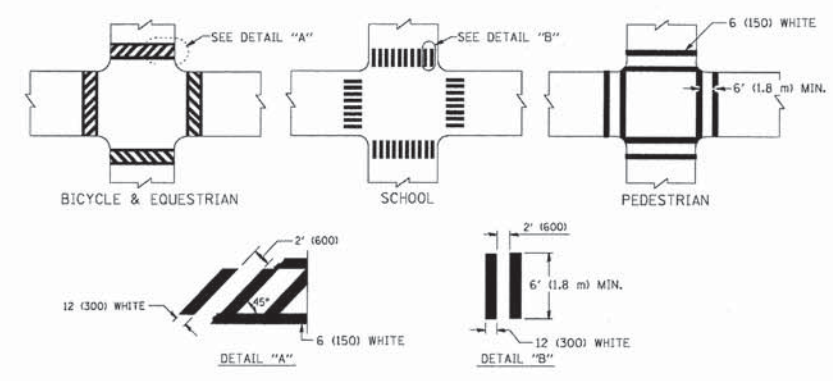
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

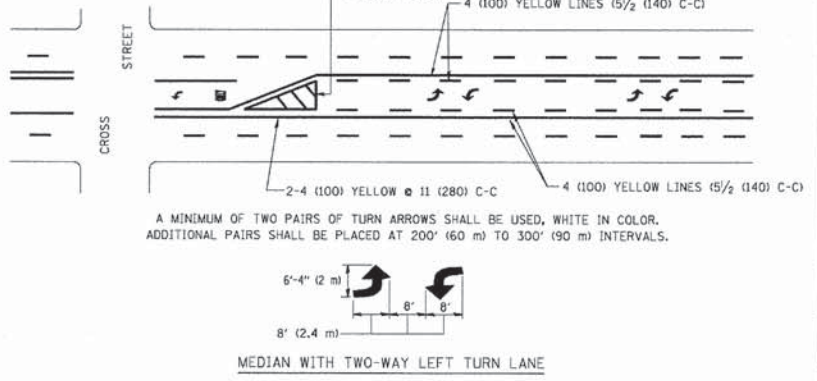
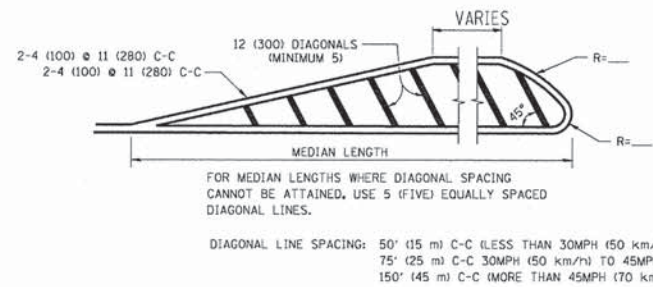
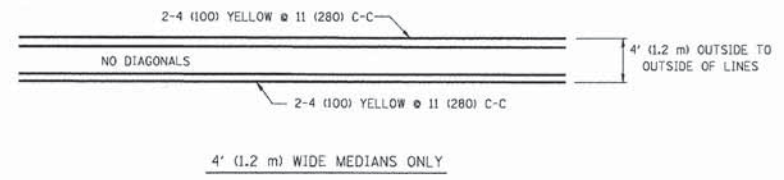
F.A.I. RTE. 28A/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 66
TC-10			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				



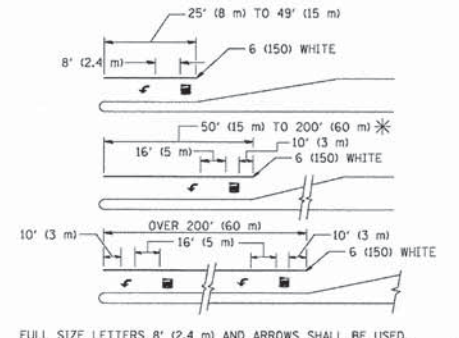
TYPICAL LANE AND EDGE LINE MARKING



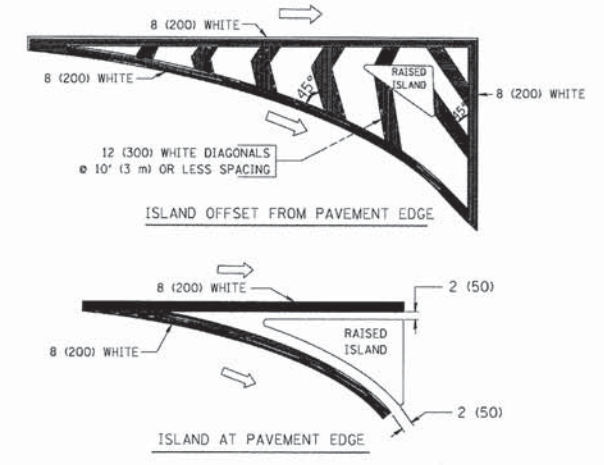
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 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	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (23 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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	PLOT SCALE = 58.800' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		284/2143	07-00164-02-RS	COOK	87	68
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003066						

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

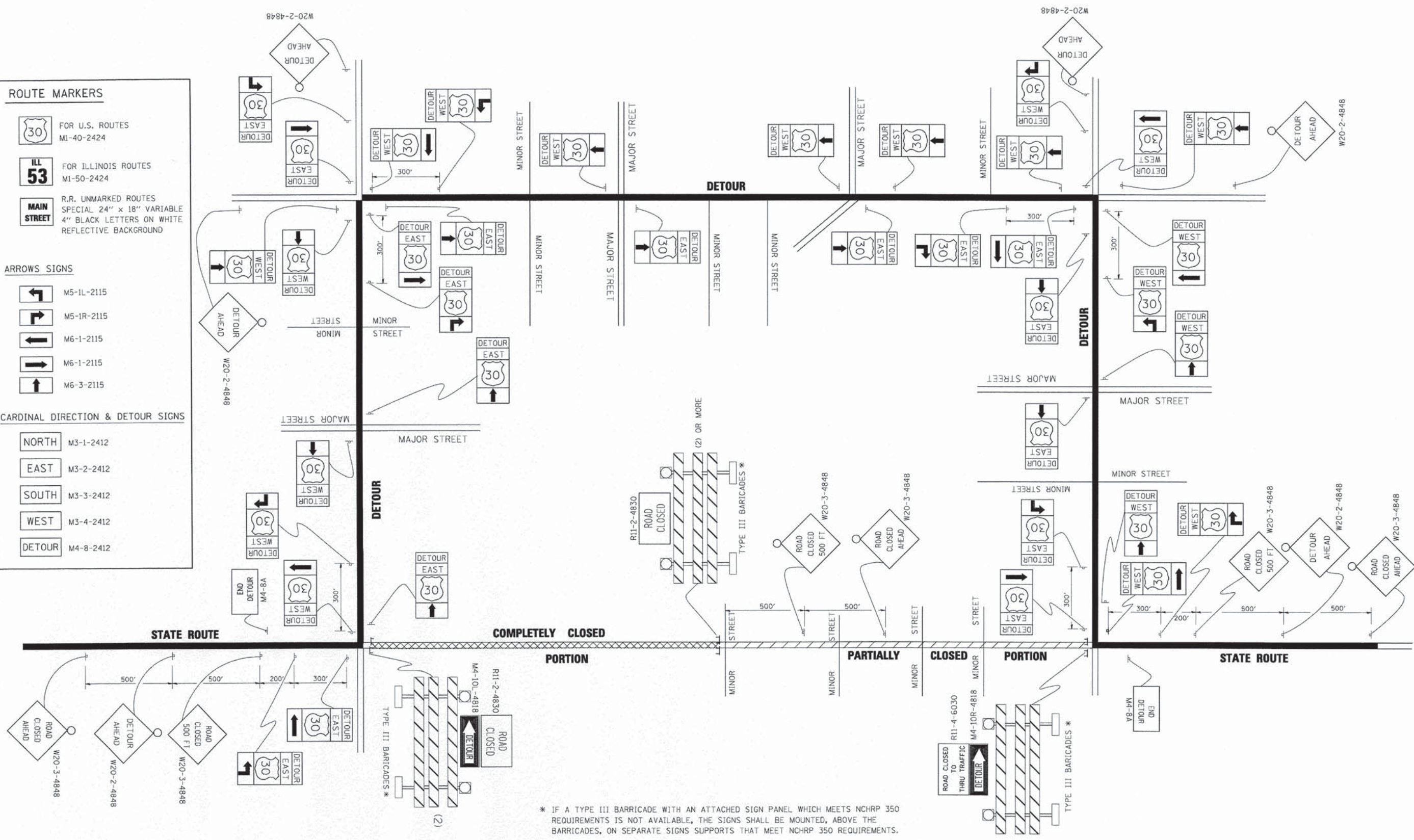
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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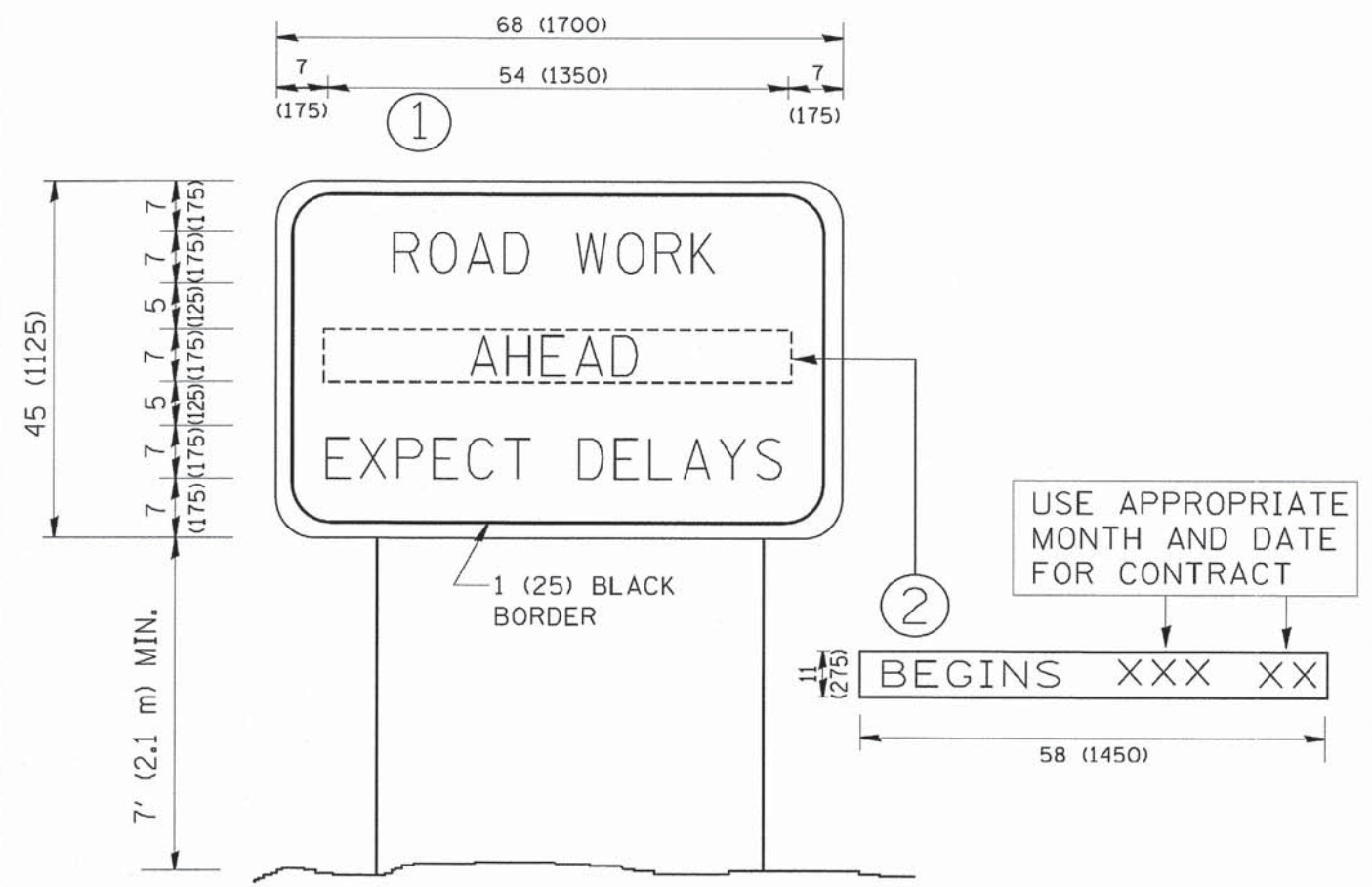
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2143	07-00164-02-RS	COOK	87	69A
TC-21		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)				

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 23/abab 12/23/2003 IN:CT:ystol:lakea:GL:WV:V2001-CHI:Eng:V2001-34-SH:LD:DETS-TC:ent
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NOTES:

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

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

FILE NAME = W:\distata\22x34\to22.dgn	USER NAME = geglionbt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.U. RTE. 284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 70
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	TC-22		CONTRACT NO. 63878	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(086)			
		DATE -	REVISED - C. JUCIUS 01-31-07							



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".

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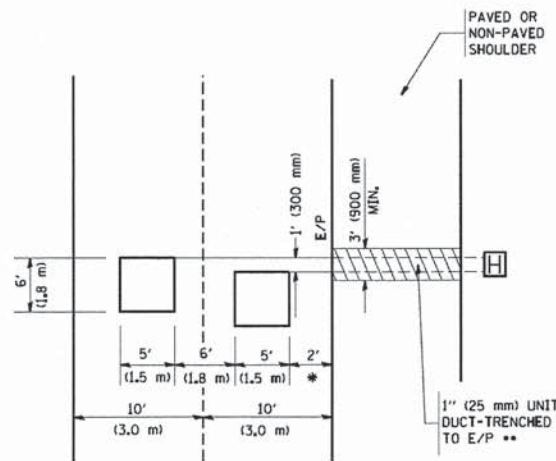
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2743	07-00164-02-RS	COOK	87	71
TC-26		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				

LOOPS NEXT TO SHOULDERS

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

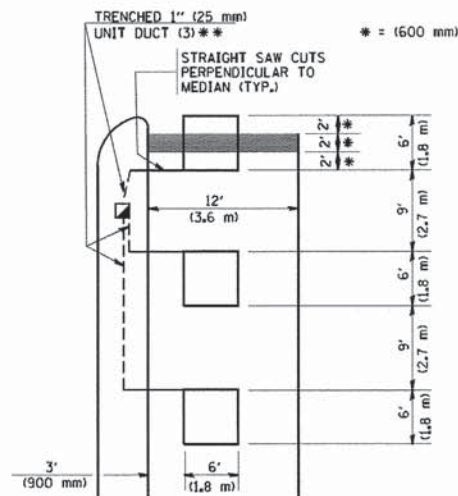


* = (600 mm)

** 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)**

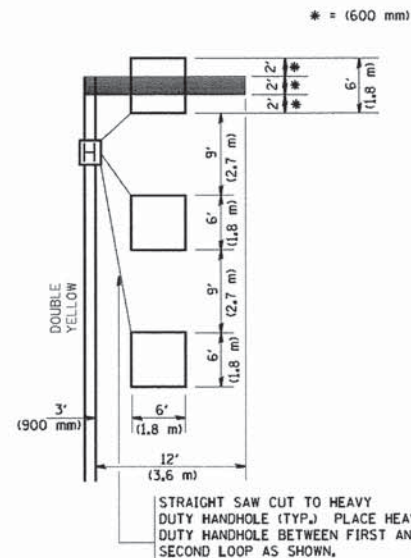
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814(00) TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** 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)**



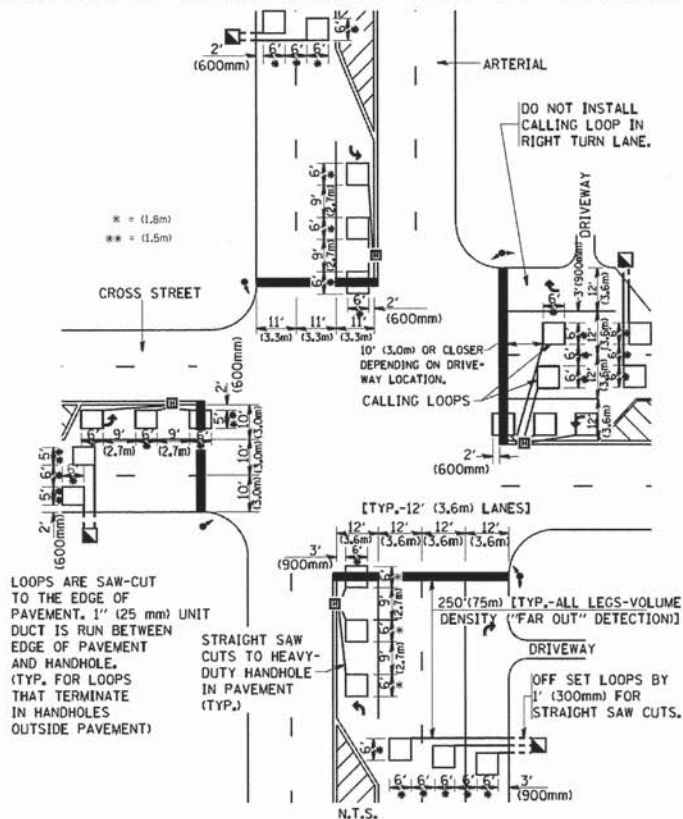
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

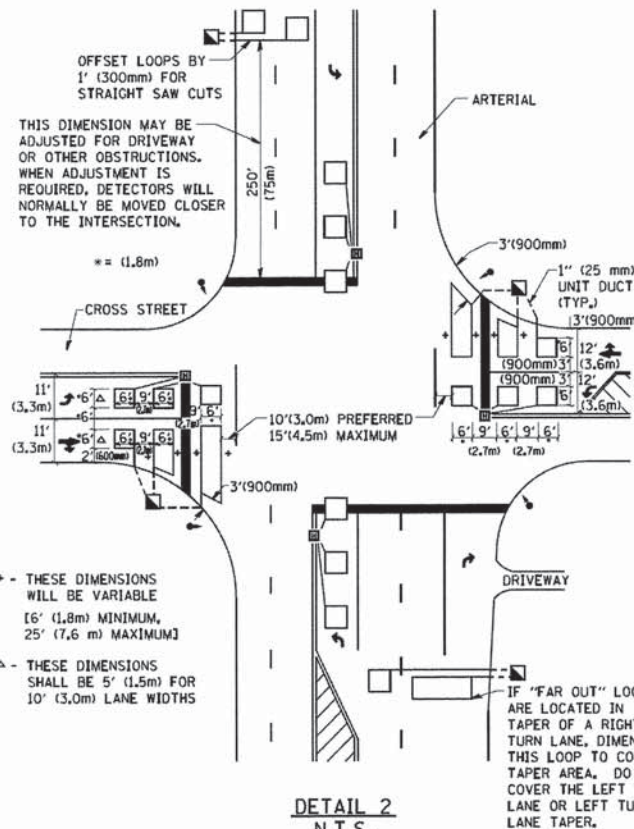
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST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

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

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.

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 PROJECT NO. 07-00164-02-RS
 DATE: 12/27/2013
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		DATE -	REVISED -

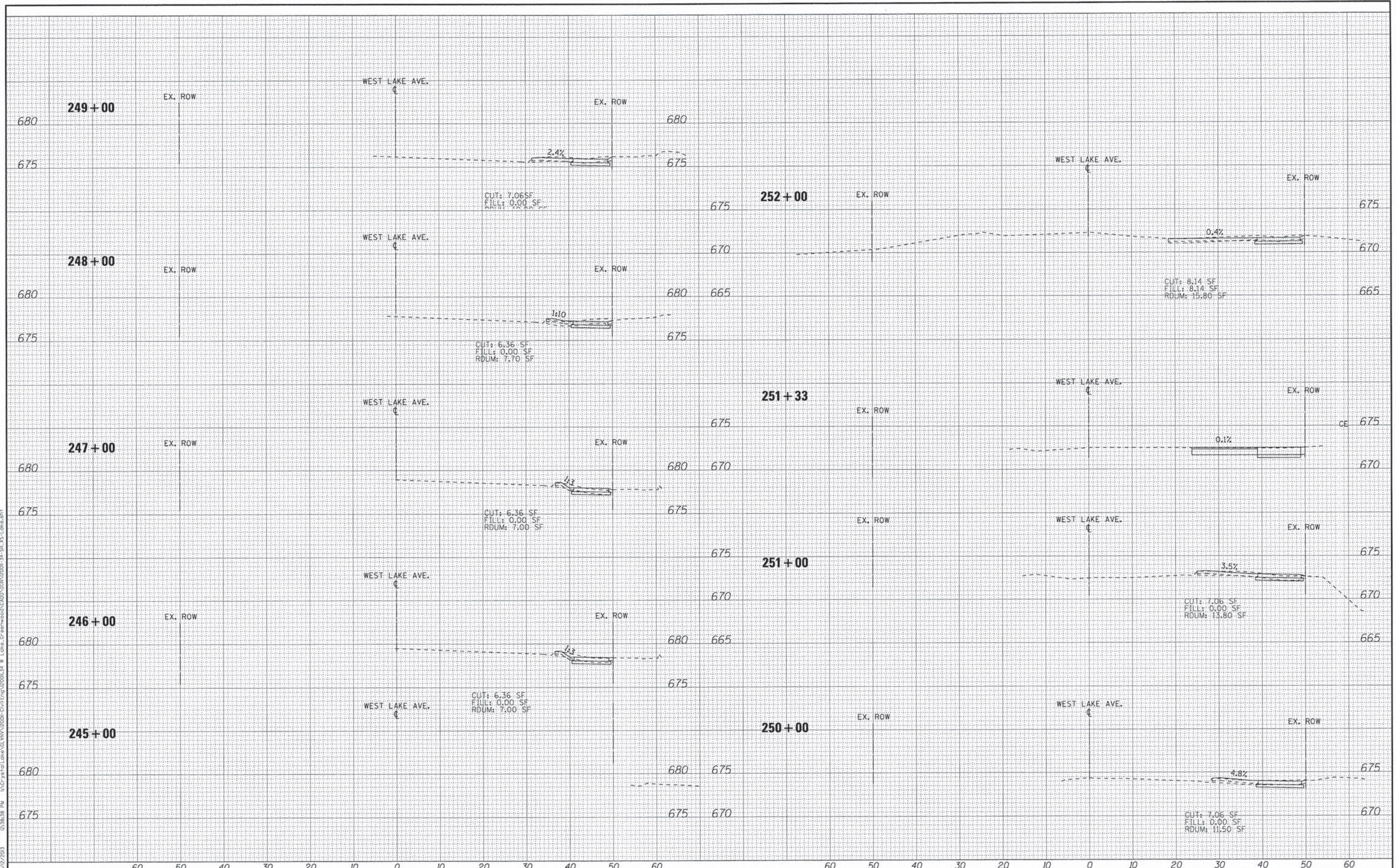
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
284/2743	07-00164-02-RS	COOK	87	72
TS-07				CONTRACT NO. 63878
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				

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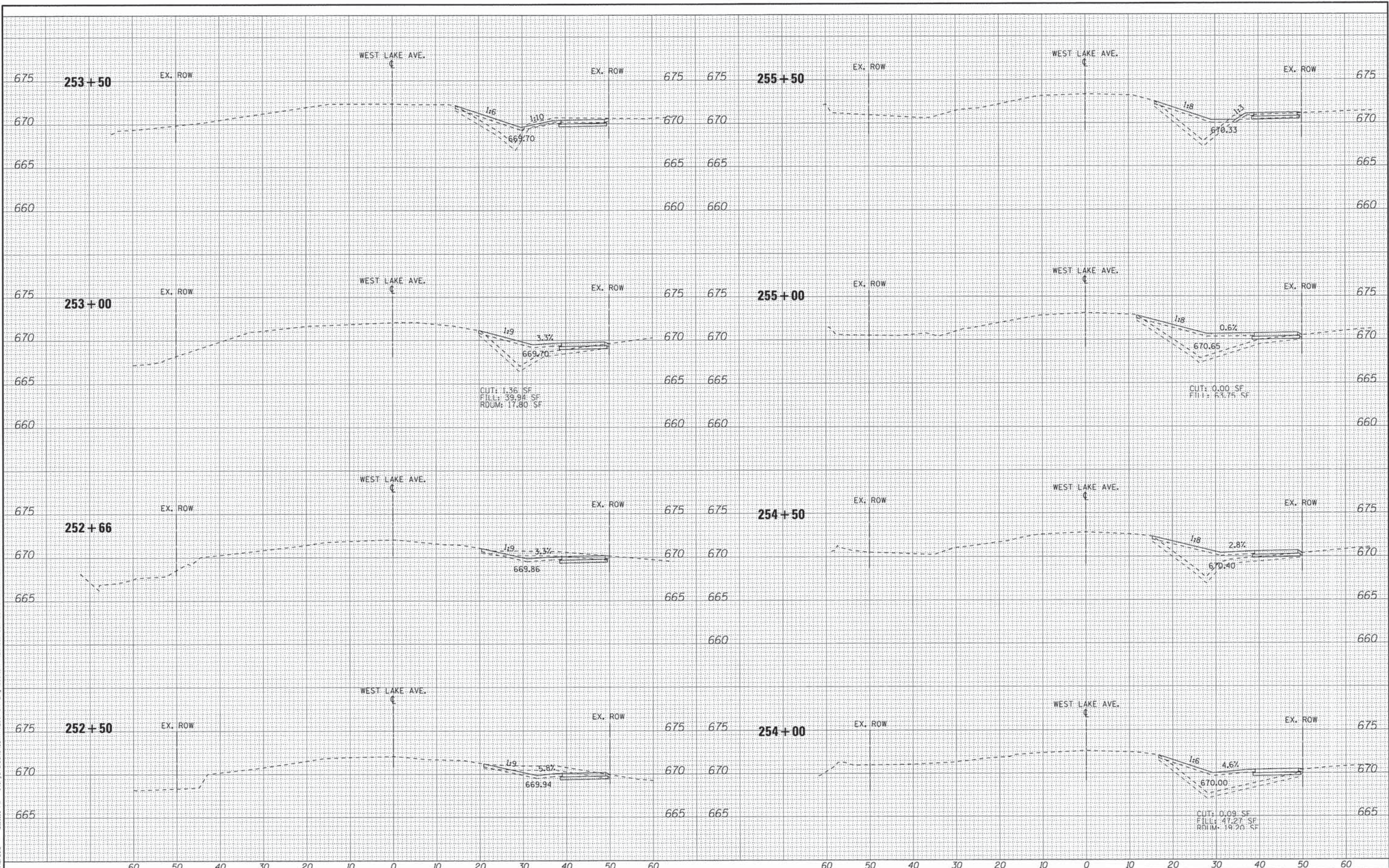


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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

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DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS		WEST LAKE AVENUE		TOTAL SHEETS		SHEET NO.	
SCALE: H: 1"=10' V: 1"=5'	STA. 245+00	TO STA. 252+00	87	73			
		F.A.U. RTE. 07-00164-02-R5		COUNTY COOK		CONTRACT NO. 63878	
		C-91-028-13		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT M-400310861	

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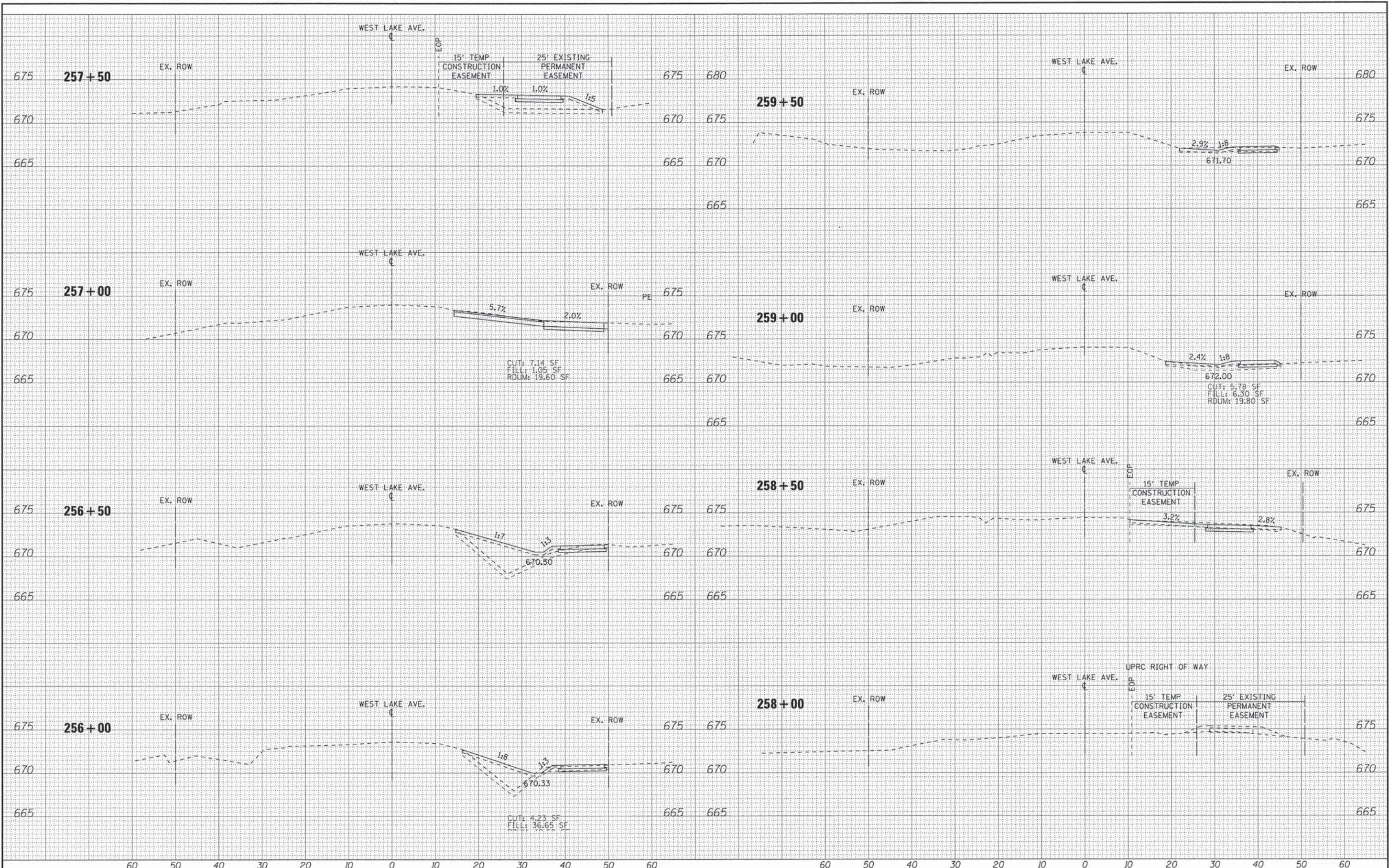
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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS		WEST LAKE AVENUE	
SCALE: H: 1"=10' V: 1"=5'	STA. 252+50	TO STA. 255+50	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
128/2143	07-00164-02-RS	COOK	87	74
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				

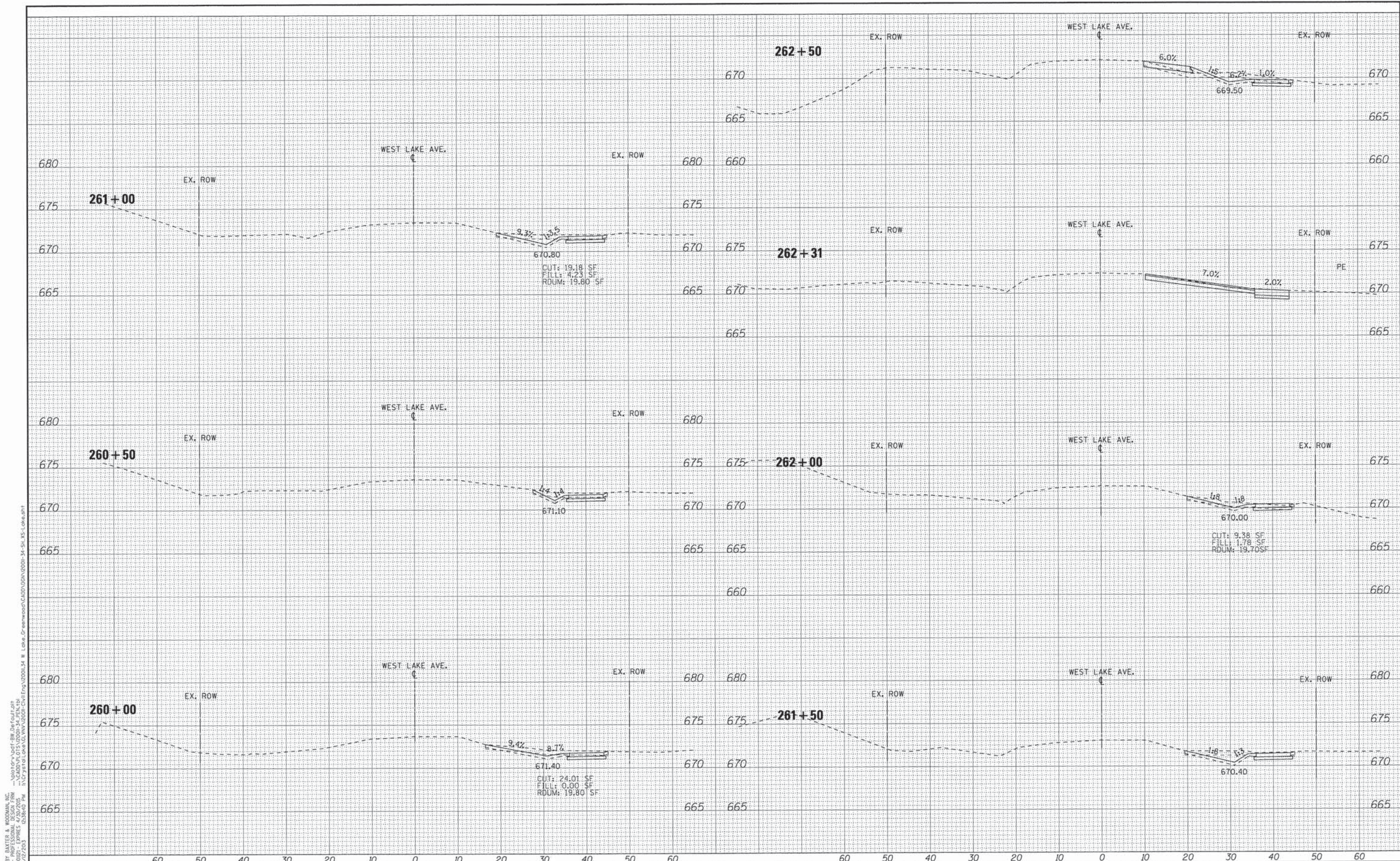
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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS WEST LAKE AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1284/2743	07-00164-02-R5	COOK	87	75
SCALE: H: 1"=10' V: 1"=5'		STA. 256+00 TO STA. 259+50		CONTRACT NO. 63878		M-40030861



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CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

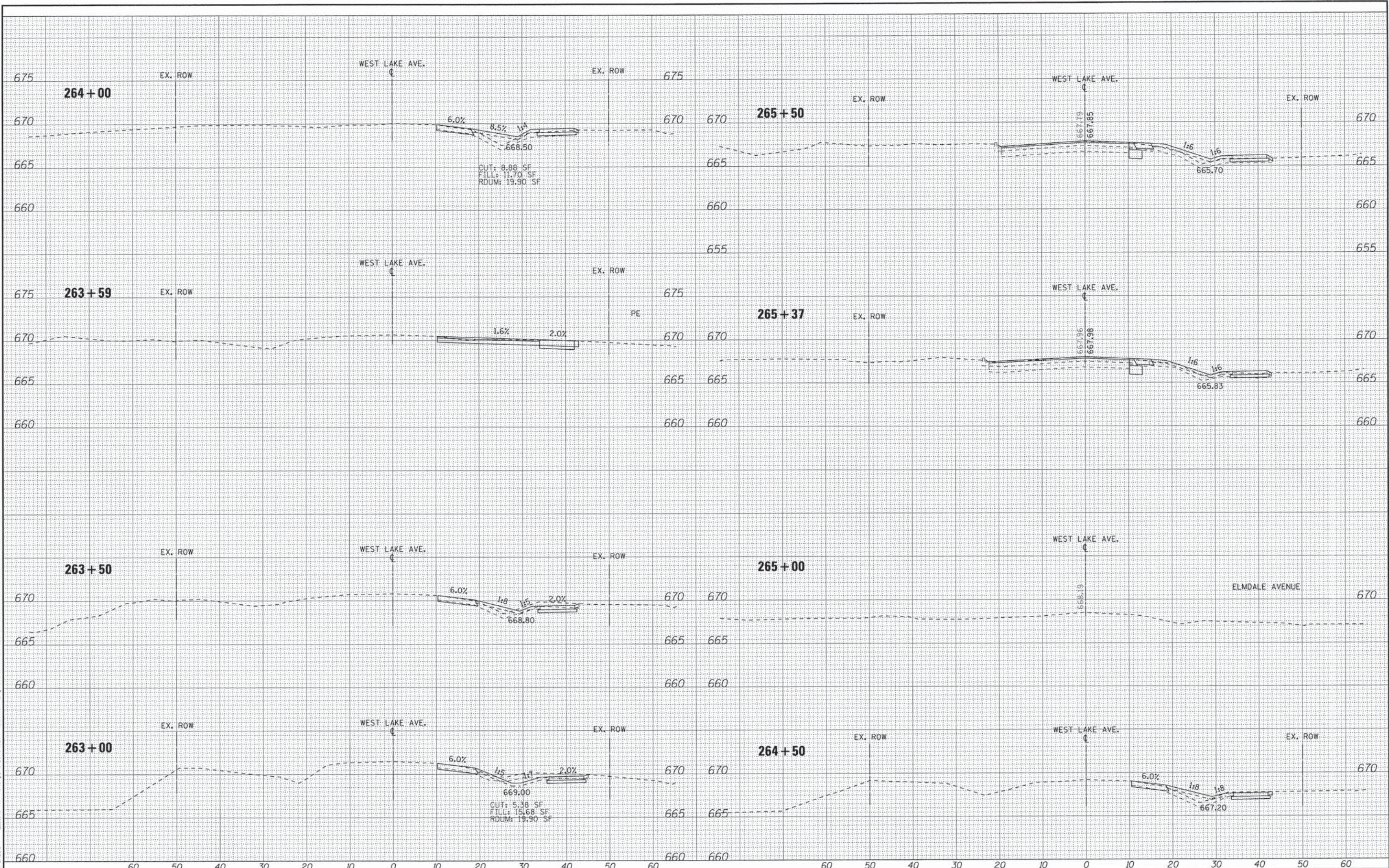
**CROSS SECTIONS
WEST LAKE AVENUE**

SCALE: H: 1"=10' V: 1"=5'

STA. 260+00 TO STA. 262+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-RS	COOK	87	76
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			M-40030861	

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DRAWN - C.J.C.	REVISED -
CHECKED - T.L.H.	REVISED -
DATE - 12/9/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

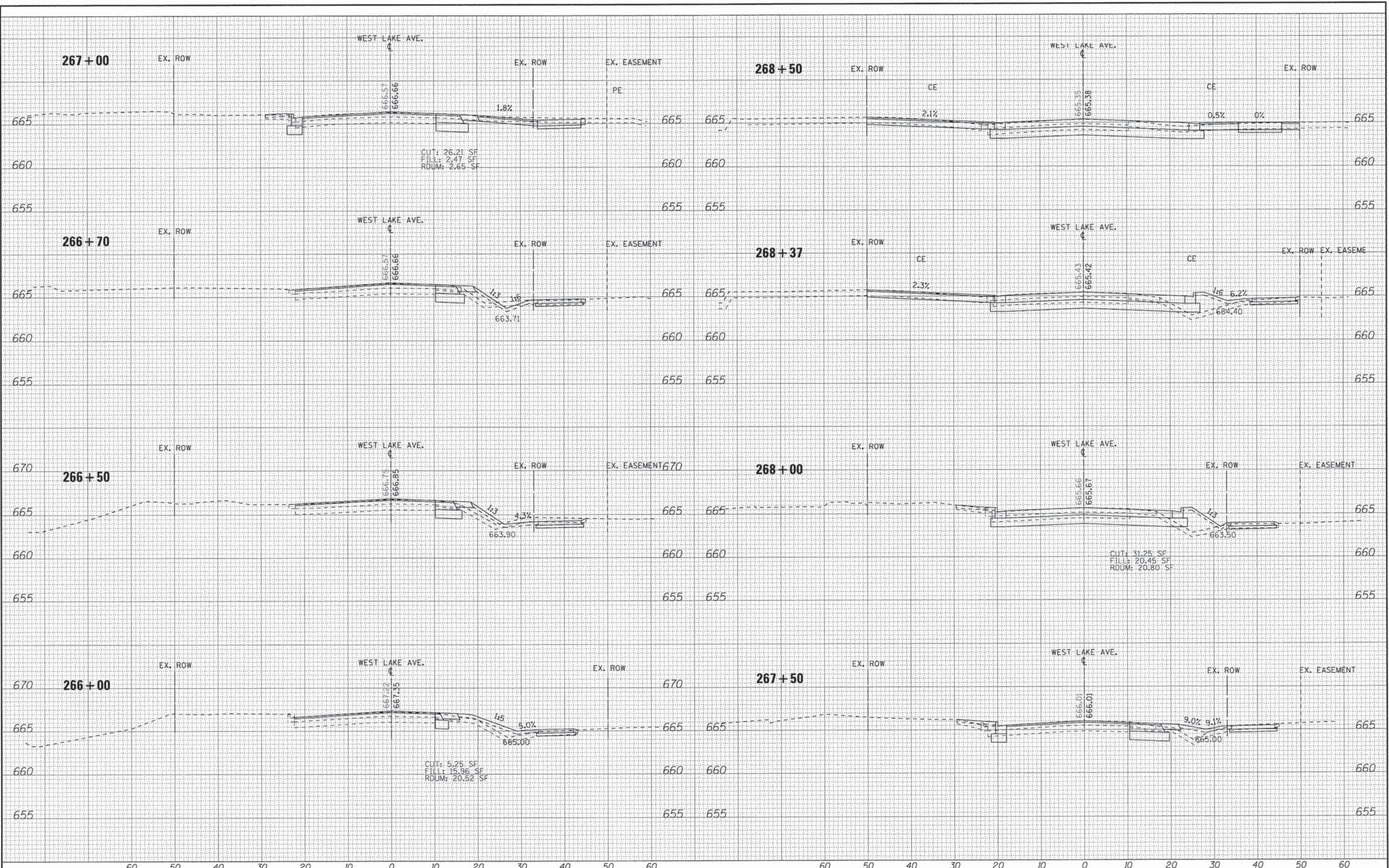
**CROSS SECTIONS
WEST LAKE AVENUE**

SCALE: H_z 1"=10' V_z 1"=5'

STA. 263+00 TO STA. 265+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	77
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40030861				

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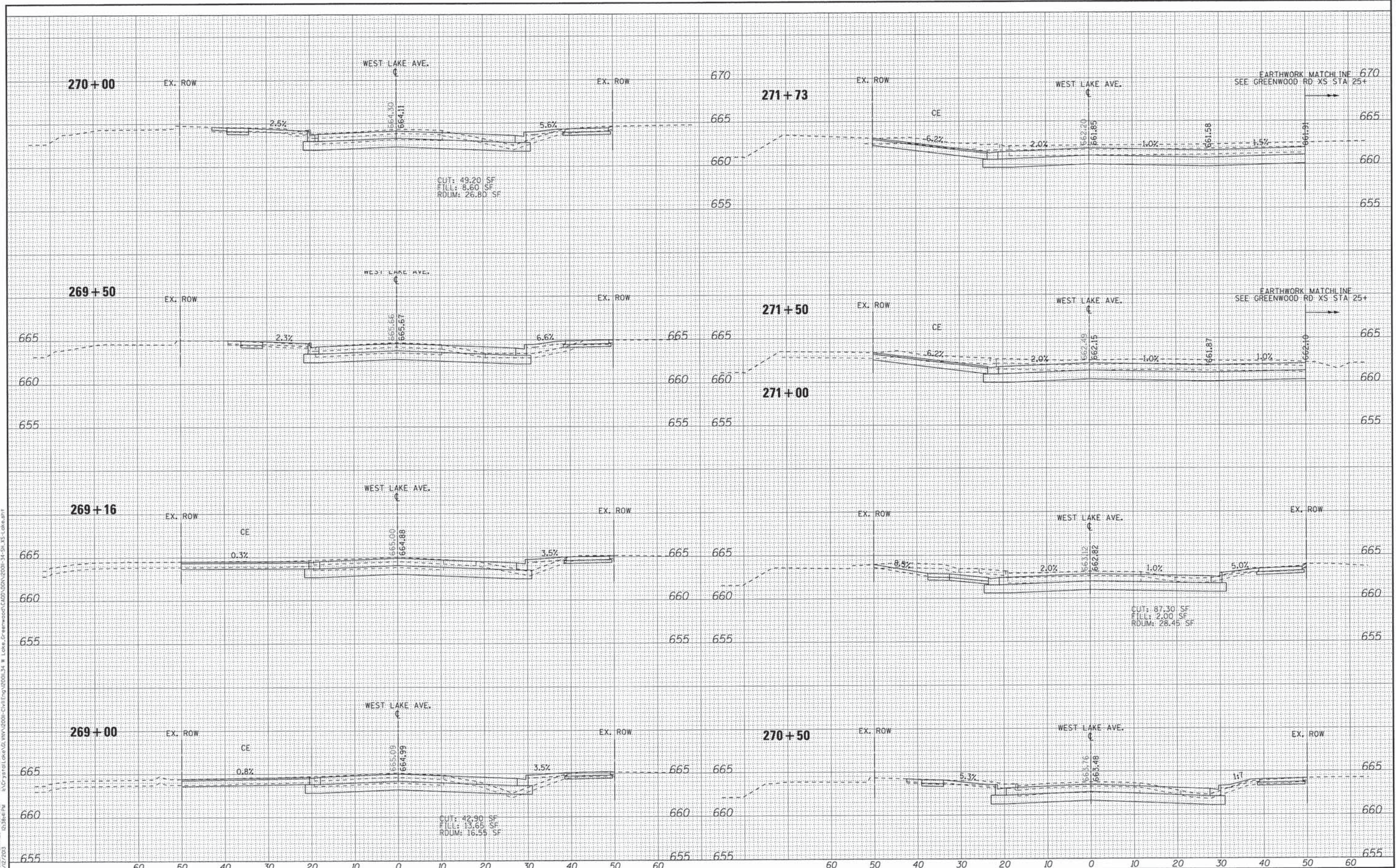
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CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WEST LAKE AVENUE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 266+00 TO STA. 268+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-R5	COOK	87	78
C-91-028-13		CONTRACT NO. 63878		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030861				

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 LICENSE NO. - 0010188 - EXPIRES 12/31/2015
 PROJECT NO. - 07-00164-02-RS
 SHEET NO. - 79



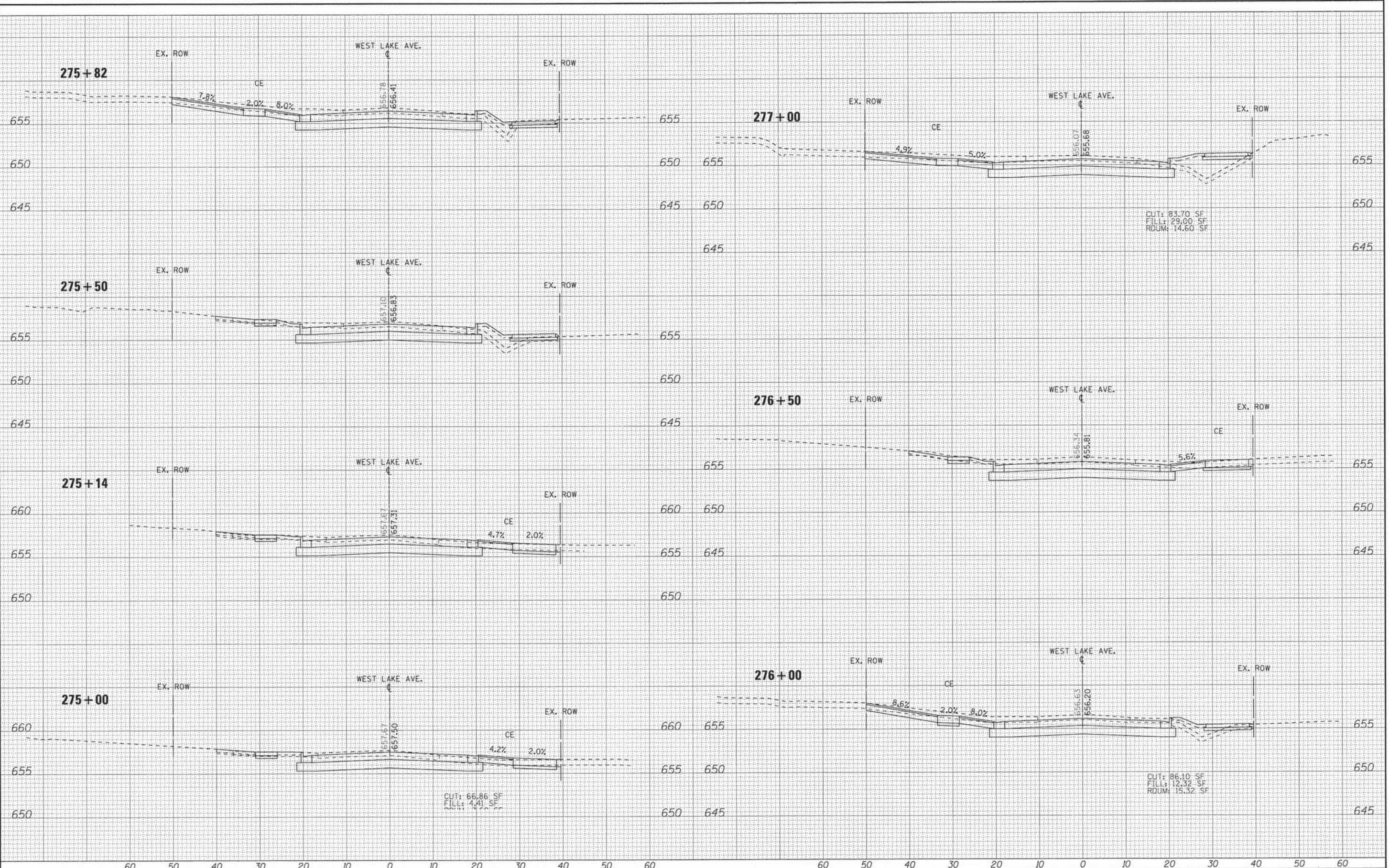
DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WEST LAKE AVENUE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 269+00 TO STA. 271+73

F.A.U. RTE. 1284/2143	SECTION 07-00164-02-RS	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 79
C-91-028-13		CONTRACT NO. 63878		FED. ROAD DIST. NO. 1
ILLINOIS FED. AID PROJECT		M-40030861		

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DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS WEST LAKE AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: H: 1"=10' V: 1"=5'		07-00164-02-RS	COOK	87	81	
STA. 275+00 TO STA. 277+00		C-91-028-13	CONTRACT NO. 63878			
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		M-4003(086)		

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 LICENSE NO. - BF-0727203
 PROJECT NO. - 07-00164-02-RS
 LOCATION - WEST LAKE AVENUE, WEST LAKE, ILLINOIS
 DRAWN BY - CAC
 CHECKED BY - TLH
 DATE - 12/9/13



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

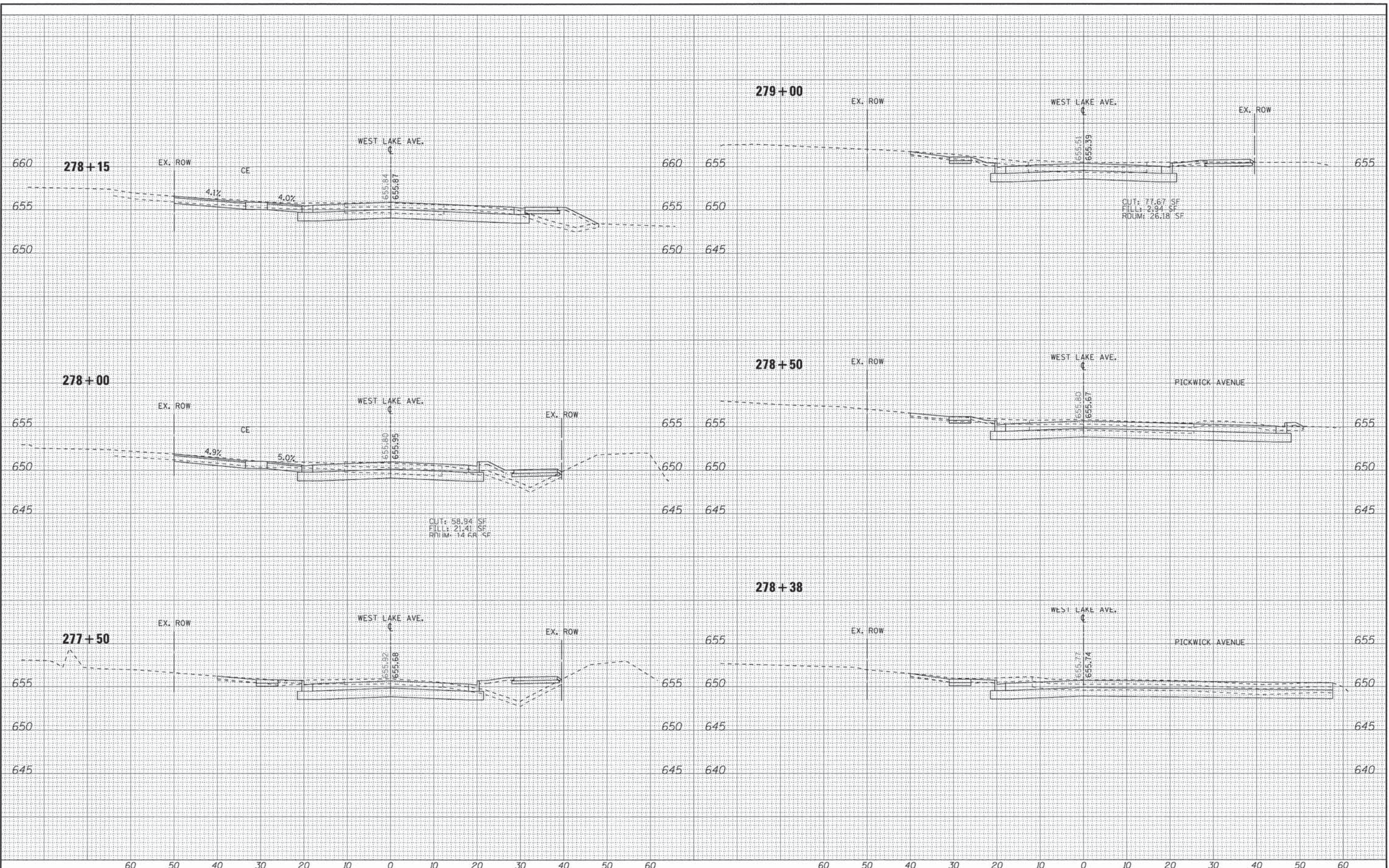
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: H: 1"=10' V: 1"=5'

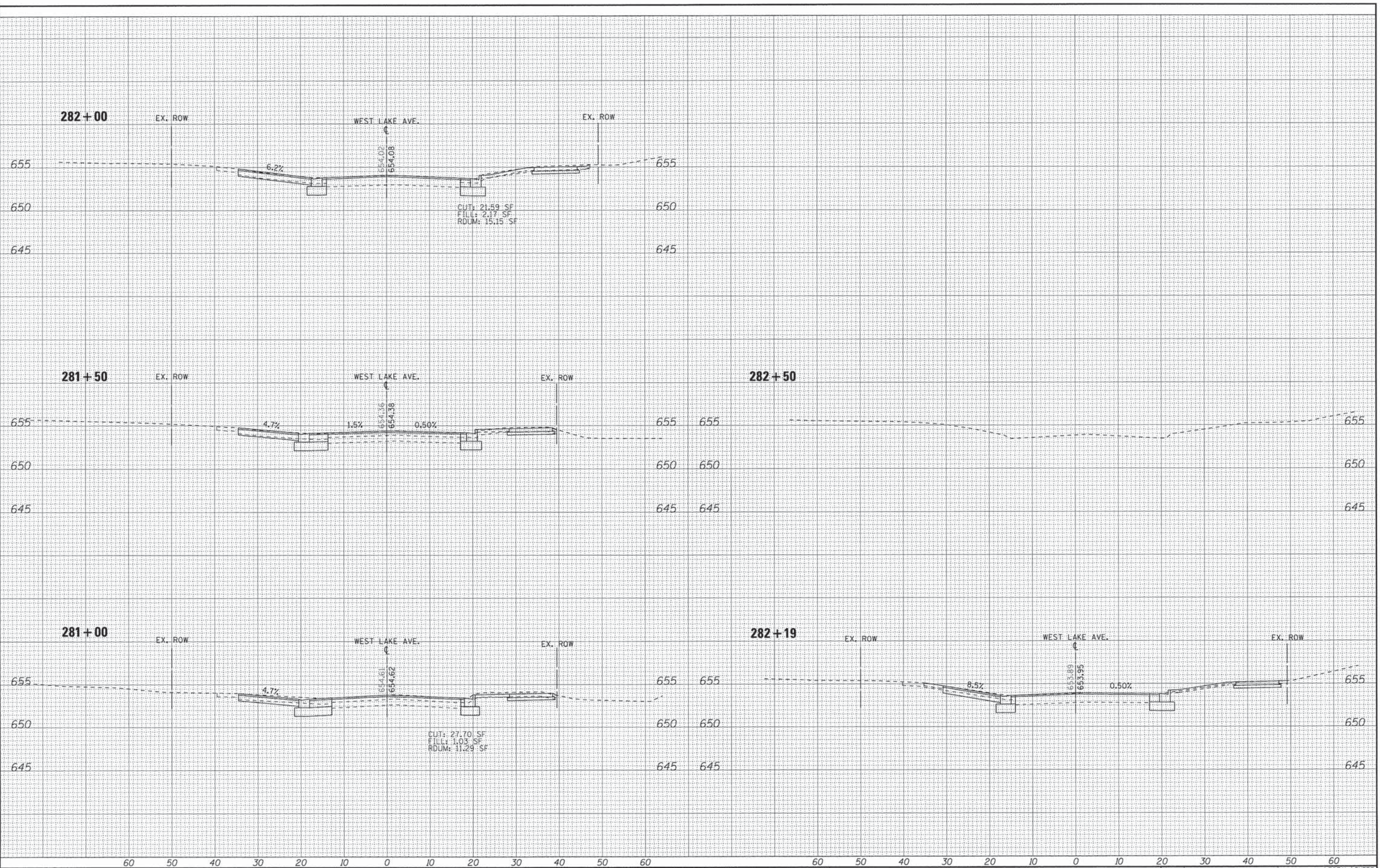
CROSS SECTIONS
WEST LAKE AVENUE

STA. 277+50 TO STA. 279+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2743	07-00164-02-RS	COOK	87	82
C-91-028-13			CONTRACT NO. 63878	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-400310861	



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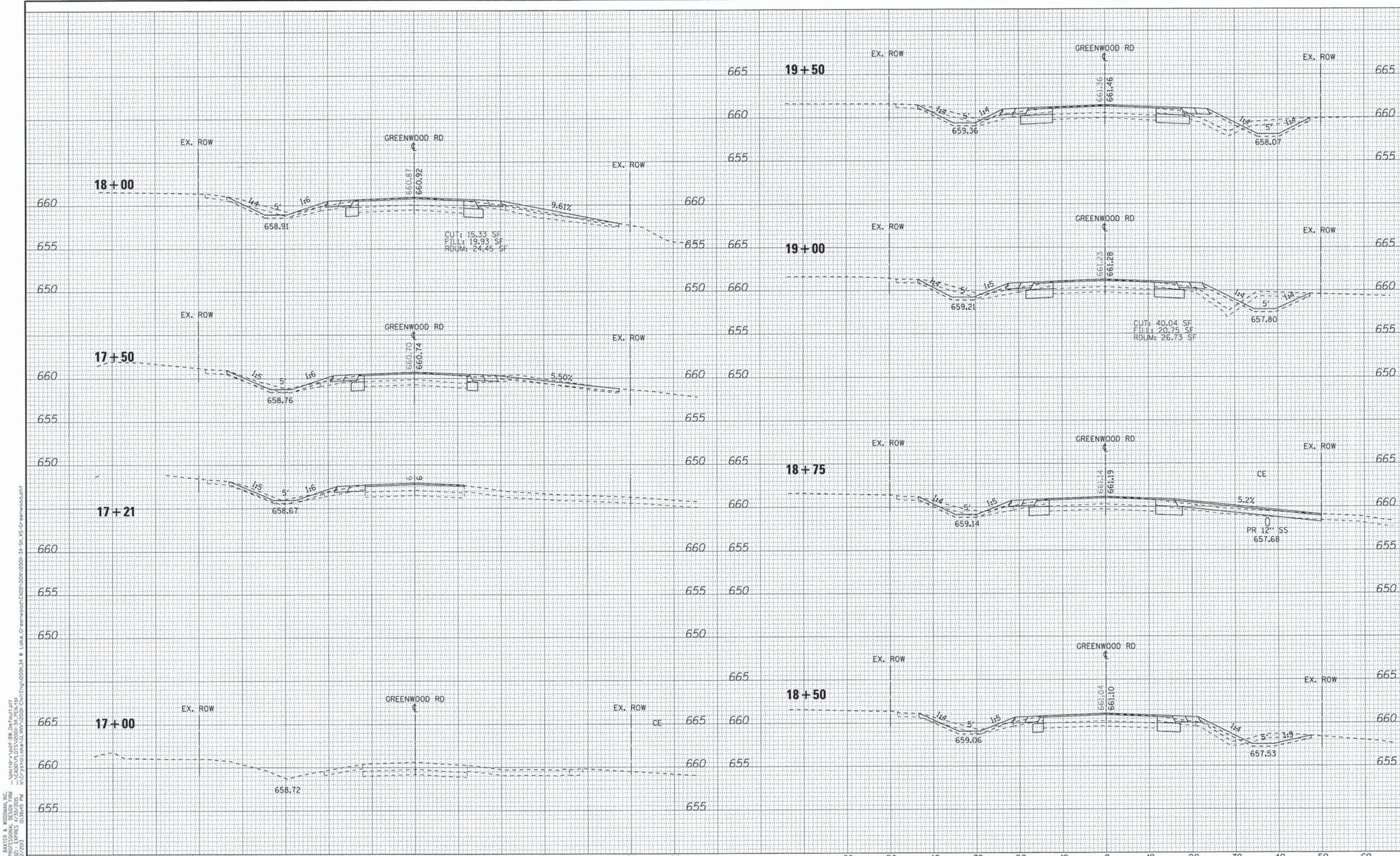


DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WEST LAKE AVENUE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 281+00 TO STA. 282+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-R5	COOK	87	84
	C-91-028-13			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63878	
			M-40030861	



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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GREENWOOD ROAD
 SCALE: H: 1"=10' V: 1"=5'
 STA. 17+00 TO STA. 19+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-RS	COOK	87	85
	C-91-028-13			CONTRACT NO. 63878
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400310861				

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 PROJECT NO. 07-00164-02-R5
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DRAWN - CJC	REVISED -
CHECKED - TLH	REVISED -
DATE - 12/9/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: H: 1"=10' V: 1"=5'

**CROSS SECTIONS
GREENWOOD ROAD**

STA. 23+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1284/2143	07-00164-02-R5	COOK	87	87
	C-91-028-13			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63878	
			M-400310861	

