

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63505	

**INDEX OF SHEETS**  
FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED HIGHWAY PLANS**

FAU ROUTE 1339 (BIESTERFIELD ROAD)  
AT I-290 ON-RAMPS  
SECTION 09-00054-00-CH  
PROJECT ARA-M-9003(569)  
ROADWAY WIDENING  
VILLAGE OF ELK GROVE VILLAGE  
COOK COUNTY  
C-91-341-10

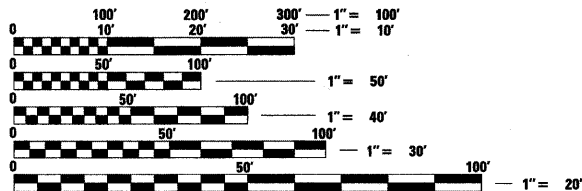


LOCATION OF SECTION INDICATED THIS: - [highlighted area]

**DESIGN SPEED:**  
BIESTERFIELD ROAD - 45 MPH  
I-290 EB ON-RAMP - 50 MPH

**POSTED SPEED:**  
BIESTERFIELD ROAD - 40 MPH  
I-290 EB ON-RAMP - N/A

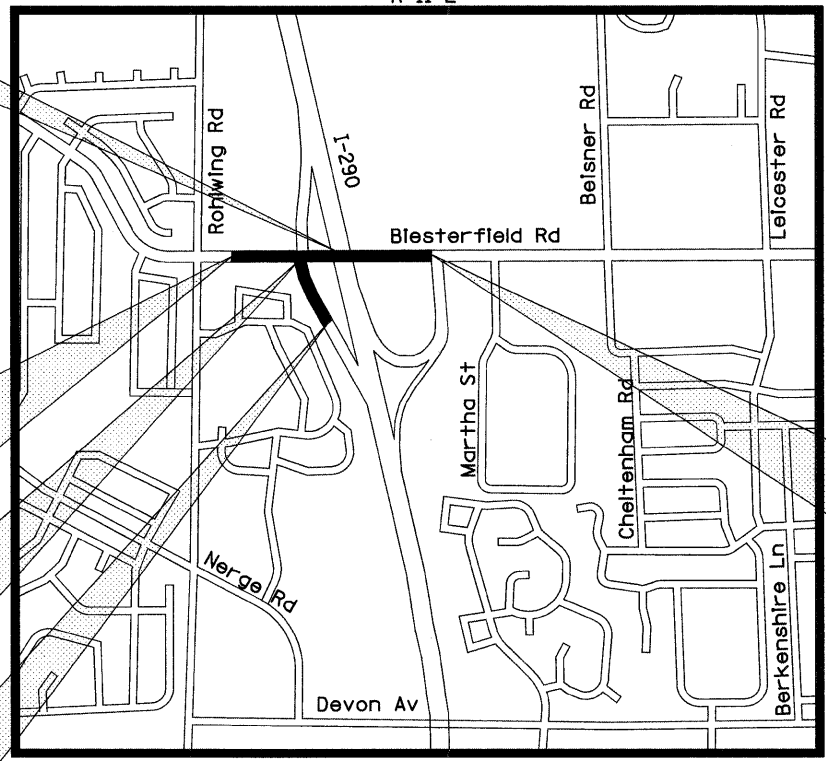
**DESIGN DESIGNATIONS:**  
BIESTERFIELD ROAD - 35,000 (2030) MINOR ARTERIAL 1.17 (COMP-20)  
I-290 EB ON-RAMP - 10,000 (2030) RAMP 0.32 (PCC-20)



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

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

CONTRACT NO. 63505



IMPROVEMENT BEGINS STA. 13+20.0 BIESTERFIELD ROAD

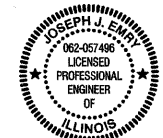
IMPROVEMENT BEGINS STA. 50+00.0 I-290 EB ON-RAMP

IMPROVEMENT ENDS STA. 58+00.0 I-290 EB ON-RAMP

LOCATION MAP NOT TO SCALE

IMPROVEMENT ENDS STA. 30+12.2 BIESTERFIELD ROAD

PROJECT LENGTH:  
BIESTERFIELD ROAD - 1692.2 FT. (0.320 MILE) (GROSS)  
1351.2 FT. (0.256 MILE) (NET)  
I-290 EB ON-RAMP - 800.0 FT. (0.152 MILE) (NET AND GROSS)



SIGNED [Signature] DATE 6/16/2010 EXPIRES 11-30-2011 FOR DRAWINGS 27-38



SIGNED [Signature] DATE 16 JUNE 2010 EXPIRES 11-30-2011 FOR DRAWINGS 39-54



SIGNED [Signature] DATE 6/16/2010 EXPIRES 11-30-2011 FOR DRAWINGS 55-59

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED [Signature] 20 10  
DIRECTOR OF TRANSPORTATION AND PUBLIC WORKS

PASSED [Signature] 20 10  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW [Signature] 20 10  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SIGNED [Signature] EXPIRES 11-30-2011  
DATE 6-16-2010 FOR DRAWINGS 1-26, 40-88

CIVILTECH  
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PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406  
CONSULTANT ENGINEER: DAVID KREEGER, P.E. CIVILTECH ENGINEERING, INC.

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**SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ("STANDARD SPECIFICATIONS"), ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2010; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 SIXTH EDITION, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROPRIATE PERMITS HAVE BEEN OBTAINED.
- ALL UTILITY COMPANIES, SCHOOL DISTRICTS, AND LOCAL POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- WHEN REMOVING CURB AND GUTTER, PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
- THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE EITHER HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND DEPOSITED AT LOCATIONS PROVIDED BY HIM, OR DISPOSED OF WITHIN THE RIGHT-OF-WAY IN A MANNER OTHER THAN BURNING, SUBJECT TO THE APPROVAL OF THE ENGINEER. NO EXTRA COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ANY EXPENSE INCURRED BY COMPLYING WITH THE REQUIREMENTS OF THIS NOTE.

**PAVING, SHOULDERS, CURB & GUTTER AND SIDEWALK**

- THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER, MEDIAN, SHOULDER, AND SIDEWALK AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.  
  
THE CONTRACTOR SHALL BE REQUIRED TO SAW VERTICAL CUTS SO AS TO FORM CLEAN VERTICAL JOINTS. SHOULD THE CONTRACTOR DEFACE ANY EDGE, A NEW SAWED JOINT SHALL BE PROVIDED AND ANY ADDITIONAL WORK, INCLUDING REMOVAL AND REPLACEMENT, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE THICKNESS OF THE EXISTING PAVEMENT AND WHETHER OR NOT IT CONTAINS REINFORCEMENT.
- HOT-MIX ASPHALT BINDER COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN PROPERLY CURED AND BACKFILLED TO THE SATISFACTION OF THE ENGINEER.
- HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACE, BINDER, OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.
- AT LOCATIONS WHERE PROPOSED AND EXISTING CURB AND GUTTER MEET, THE PROPOSED CURB AND GUTTER SHALL BE TIED TO THE EXISTING CURB AND GUTTER WITH TWO 1/4 INCH STEEL DOWEL BARS (18" LONG) DRILLED INTO THE EXISTING CURB AND GUTTER END.  
  
THE ENGINEER MUST INSPECT AND APPROVE THE BASE AND FORMWORK FOR CURB AND GUTTER BEFORE ANY CONCRETE IS POURED. A MINIMUM 24 HOUR NOTICE SHALL BE PROVIDED FOR FORMWORK INSPECTION.  
  
THIS WORK SHALL BE INCLUDED IN THE COST OF "COMBINATION CONCRETE CURB AND GUTTER" OF THE TYPE SPECIFIED.
- ALL SAW CUTS AND DOWEL BARS REQUIRED FOR THE CONSTRUCTION OF CLASS B PATCHES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "CLASS B PATCHES" OF THE TYPE AND THICKNESS REQUIRED.

**TREE REMOVAL, CLEARING AND HEDGE REMOVAL**

- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF THE UTMOST IMPORTANCE TO THE VILLAGE. ALL TREE PROTECTION, 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.
- TEMPORARY FENCE SHALL BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WHEN DIRECTED BY THE ENGINEER. AFTER TREES ARE SAFELY FENCED NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

**ROADWAY EXCAVATION**

- POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN INCLUDED IN THE CONTRACT TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."
- THE QUANTITIES OF FURNISHED EXCAVATION HAVE BEEN CALCULATED ASSUMING THAT ALL MATERIAL EXCAVATED UNDER THE PAY ITEM EARTH EXCAVATION WILL BE REMOVED FROM THE JOB SITE. IF THE CONTRACTOR EXCAVATES SUITABLE MATERIAL AND PLACES IT IN AREAS OF THE PROJECT REQUIRING EMBANKMENT UNDER THE PAY ITEM EARTH EXCAVATION, AS DESCRIBED IN SECTION 202 OF THE STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER, THE APPLICABLE DEDUCTION TO THE FURNISHED EXCAVATION QUANTITY SHALL BE MADE AS DEFINED BY ARTICLE 204.07(B), EXCEPT THAT A SHRINKAGE FACTOR OF 15% SHALL BE USED. THE CONTRACTOR SHALL NOT BE ALLOWED A CHANGE IN THE UNIT PRICES FOR EARTH EXCAVATION OR FURNISHED EXCAVATION BASED ON THESE CHANGES TO THE QUANTITIES. THE VOLUMES OF FURNISHED EXCAVATION SHOWN ON THE PLANS ARE THE COMPACTED VOLUMES. THE VOLUMES SHOWN ON THE PLANS HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR SHRINKAGE DUE TO COMPACTION.

**UTILITIES**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY.
- COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
- WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE STORM SEWERS AND DRAINAGE STRUCTURES INSTALLED AS PART OF THIS PROJECT.
- ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE VILLAGE.
- THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. THE COST TO COMPLY WITH THE ABOVE SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS AND DRAINAGE STRUCTURES INSTALLED AS PART OF THIS PROJECT.

FILE NAME = ...2349\cad\sheet\2349_notes.dgn	USER NAME = djk	DESIGNED - JAT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0000' / IN.	DRAWN - JAT	REVISED -			1339	09-00054-00-CH	COOK	88	2	
	PLOT DATE = 7/7/2010	CHECKED - DJK	REVISED -			<b>CONTRACT NO. 63505</b>					
		DATE - 07-07-10	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-900315691					
SHEET NO. 1 OF 2 SHEETS											

**STORM & SANITARY SEWER**

1. THE COST OF MAKING SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.
2. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. LOCATIONS OF EXISTING DRAINAGE STRUCTURES AND SEWERS AS SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO COMMENCING WORK THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL DETERMINE THE EXACT LOCATIONS OF EXISTING STRUCTURES WHICH ARE WITHIN THE PROPOSED CONSTRUCTION LIMITS.  
  
DURING CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS, UNDERDRAINS OR FIELD DRAINS WITHIN THE RIGHT-OF-WAY OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL SO INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF THE NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE. SHOULD THE ENGINEER HAVE DIRECTED THE REPLACEMENT OF A FACILITY, THE NECESSARY WORK AND PAYMENT SHALL BE IN ACCORDANCE WITH SECTIONS 550 AND 601, AND ARTICLE 104.02 OF THE STANDARD SPECIFICATIONS.
3. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWER ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS AND DRAINAGE STRUCTURES INSTALLED AS PART OF THIS PROJECT.
4. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES AND CATCH BASINS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE USE OF FLAT SLAB TOPS.
5. TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.
6. DRAINAGE STRUCTURE FLAT-TOPS AND CONES SHALL BE TURNED SO THAT THE FRAMES ARE CLOSEST TO THE CENTERLINE OF THE LANE. ALL FLAT-TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.
7. ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO SAID SERVICES NOT CONSIDERED TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
8. THE REMOVAL OF END SECTIONS SHALL BE PAID FOR PER FOOT AS "STORM SEWER REMOVAL" OF THE DIAMETER INDICATED.
9. ONLY METHOD 1 UNDER SECTION 550.07 OF THE STANDARD SPECIFICATIONS SHALL BE ALLOWED FOR THE PLACEMENT OF TRENCH BACKFILL.
10. THE CONTRACTOR SHALL BE AWARE THAT AT TIMES THE ENGINEER MAY REQUIRE A CHANGE IN STORM SEWER ELEVATION DUE TO A UTILITY LINE OR OTHER OBSTRUCTION. IF SUCH A GRADE CHANGE DOES NOT ALTER THE PIPE CLASSIFICATION, THE ADDITIONAL EXCAVATION OR SHEETING REQUIRED SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING INSTALLED. IF THE REVISED GRADE RESULTS IN A CHANGE IN PIPE CLASSIFICATION, PAYMENT WILL BE MADE FOR THE REVISED TYPE OF STORM SEWER.

**LANDSCAPING**

1. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**EROSION CONTROL**

1. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
3. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
4. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.
5. ALL SLOPES SHALL BE COVERED WITH SEED AND EROSION CONTROL BLANKET AS GRADING AND PLACEMENT OF TOPSOIL HAS BEEN COMPLETED. THE LIMITS OF THE SEEDING SHALL BE THE LIMITS OF GRADING.
6. INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES IN THE CURB AND GUTTER AND SHOULDERS.
7. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
8. SEE STANDARD 280001-05 FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS AND REQUIREMENTS.
9. WHEN A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES MEETING THE APPROVAL OF THE ENGINEER SHALL BE PROVIDED. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR THE INDIVIDUAL ITEMS USED.
10. THE SURFACE OF ALL STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN 14 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION WITH THE USE OF TEMPORARY EROSION CONTROL SEEDING. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.

**MISCELLANEOUS**

1. SITE OBJECTS: REMOVAL OF MISCELLANEOUS PARKWAY IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BLOCK RETAINING WALLS, CONCRETE RETAINING WALLS, LANDSCAPE TIMBERS, LANDSCAPE ROCKS, FENCES, FENCE POSTS, PLANTERS, VEGETATION, BRICK OR BRICK PAVER WALKWAYS WITHIN R.O.W. LIMITS SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION." THE CONTRACTOR SHALL CONTACT THE ADJACENT PROPERTY OWNER TO DETERMINE IF SUCH ITEMS SHALL BE RETURNED TO THE PROPERTY OWNER OR BE DISPOSED OF PROPERLY.
2. UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOT CROSS COMPLETED BINDER COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT.
4. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT 847-705-8419 AT LEAST TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
5. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.

**STAKING**

1. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE VILLAGE, ITS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
2. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR EACH STRUCTURE TO SET THE FRAME AND GRATE IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE.
4. PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE INDICATED.
5. THE CONSTRUCTION BASELINE HAS BEEN ESTABLISHED FOR STAKING PURPOSES ONLY AND IS NOT INTENDED TO BE A CENTERLINE OF RIGHT-OF-WAY.

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 PLOT DATE = 7/7/2010

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	3
<b>CONTRACT NO. 63505</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)</small>				

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	1000-1A	Y031-1F	Y030-1E	X281-2A	
				ROADWAY	TRAFFIC SIGNALS	LIGHTING	STRUCTURES	NON-PARTICIPATING
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62	62				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18				
20101000	TEMPORARY FENCE	FOOT	400	400				
20101200	TREE ROOT PRUNING	EACH	10	10				
20200100	EARTH EXCAVATION	CU YD	2791	2791				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2050	2050				
20400800	FURNISHED EXCAVATION	CU YD	4499	4499				
X0326160	POROUS GRANULAR EMBANKMENT, SUBGRADE (SPECIAL)	CU YD	50	50				
20800150	TRENCH BACKFILL	CU YD	14	14				
● 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6345	6345				
X21300 10	EXPLORATION TRENCH, SPECIAL	FOOT	100	100				
● 25000210	SEEDING, CLASS 2A	ACRE	1.4	1.4				
● 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	118	118				
● 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	118	118				
● 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	118	118				
25100630	EROSION CONTROL BLANKET	SQ YD	6345	6345				
25200200	SUPPLEMENTAL WATERING	UNIT	95	95				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	140	140				
28000305	TEMPORARY DITCH CHECKS	FOOT	96	96				
28000510	INLET FILTERS	EACH	24	24				
28100105	STONE RIPRAP, CLASS A3	SQ YD	12	12				
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	229	229				
31102000	SUB-BASE GRANULAR MATERIAL, TYPE C	CU YD	18	18				
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	1246	1246				
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	273	273				
40600300	AGGREGATE (PRIME COAT)	TON	1	1				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	2	2				
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	157	157				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	169	169				
42000506	PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)	SQ YD	628	628				
42001300	PROTECTIVE COAT	SQ YD	1779	1779				
44000100	PAVEMENT REMOVAL	SQ YD	1100	1100				
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	478	478				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2256	2256				
44002207	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 1 3/4"	SQ YD	21	21				
44003100	MEDIAN REMOVAL	SQ FT	8481	8481				
44004250	PAVED SHOULDER REMOVAL	SQ YD	320	320				

● SPECIALTY ITEM

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PLOT SCALE = 50.0000' / IN.	CHECKED - DJK	REVISIED -									
PLOT DATE = 7/7/2018	DATE - 07-07-10	REVISED -									
						SHEET NO. 1 OF 4 SHEETS	CONTRACT NO. 63505				



CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	I000-1A	Y031-1F	Y030-1E	X281-2A	
				ROADWAY	TRAFFIC SIGNALS	LIGHTING	STRUCTURES	NON-PARTICIPATING
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	14	14				
44200990	CLASS B PATCHES, TYPE I, 12 INCH	SQ YD	21	21				
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1455	1455				
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	149	149				
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	258	258				
50102400	CONCRETE REMOVAL	CU YD	26.5				26.5	
50157300	PROTECTIVE SHIELD	SQ YD	70				70	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.8				10.8	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1370				1370	
52000050	PREFORMED JOINT SEAL 4"	FOOT	79				79	
54215547	METAL END SECTIONS 12"	EACH	1	1				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	39	39				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	23	23				
55100500	STORM SEWER REMOVAL 12"	FOOT	100	100				
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	3	3				
60107600	PIPE UNDERDRAINS 4"	FOOT	717	717				
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	46	46				
60100945	PIPE DRAINS 12"	FOOT	58	58				
60109510	PIPE UNDERDRAINS, FABRIC LINED TRENCH 4"	FOOT	100	100				
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	6	6				
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60403400	GRATES, TYPE A	EACH	1	1				
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	5	5				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2				
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	483	483				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1011	1011				
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	1613	1613				
60900515	CONCRETE THRUST BLOCKS	EACH	1	1				
67100100	MOBILIZATION	L SUM	1	1				
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	822	822				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3435	3435				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1145	1145				
● 72000100	SIGN PANEL - TYPE 1	SQ FT	24	24				
● 72000200	SIGN PANEL - TYPE 2	SQ FT	16	16				
● 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1				
● 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1				

● SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SHEET NO. 2 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	5
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-90031569				

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	I000-1A	Y031-1F	Y030-1E	X281-2A	NON-PARTICIPATING
				ROADWAY	TRAFFIC SIGNALS	LIGHTING	STRUCTURES	
● 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1				
● 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1				
● 72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	60	60				
● 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	303	303				
● 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	64	64				
● 73000100	WOOD SIGN SUPPORT	FOOT	17	17				
● 73400100	CONCRETE FOUNDATIONS	CU YD	1.4	1.4				
● 73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	2	2				
● 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	130	130				
● 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1289	1289				
● 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	880	880				
● 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	52	52				
● 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	172	172				
● 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	95	95				
● 78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	916	916				
● 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	26	26				
● 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1			1		
● 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1			1		
● 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	452		452			
● 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	587			587		
● 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	183		183			
● 81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	5		5			
● 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	266		56	210		
● 81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	60			60		
● 81030100	CONDUIT SPLICE	EACH	1		1			
● 81400100	HANDHOLE	EACH	3		3			
● 81603203	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE	FOOT	1510			1510		
● 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	742			742		
● 81702230	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500MCM	FOOT	2226			2226		
● 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2592		452	2140		
● 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1			1		
● 84200804	REMOVAL OF POLE FOUNDATION	EACH	3			3		
● 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3			3		
● 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1			1		
● 84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1			1		
● 84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1			1		
● 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3		3			
● 86400100	TRANSCIVER - FIBER OPTIC	EACH	1		1			

● SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SHEET NO. 3 OF 4 SHEETS

F.A.U. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 6
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT ARA-M-9003569	
<b>CONTRACT NO. 63505</b>				

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	1000-1A	Y031-1F	Y030-1E	X281-2A	
				ROADWAY	TRAFFIC SIGNALS	LIGHTING	STRUCTURES	NON-PARTICIPATING
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	267		267			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2525		2525			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4			
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4			4		
87900200	DRILL EXISTING HANDHOLE	EACH	4		4			
88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6			
88600100	DETECTOR LOOP, TYPE I	FOOT	303		303			
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1		1			
89502205	MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	3		3			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1016		981	35		
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	66			66		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2			
89502380	REMOVE EXISTING HANDHOLE	EACH	3		3			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2		1	1		
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2865	2865				
Z0006000	BRIDGE DECK CONCRETE OVERLAY	SQ YD	31				31	
Z0018913	DRILL AND GROUT #8 TIE BARS	EACH	1107	1107				
A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	6	6				
A2005424	TREE, LIRIODENDRON TULIPIFERA (TULIP TREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	7	7				
Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	365	365				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51	51				
X0322708	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1			1		
Z0033090	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2650		2650			
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3			3		
X0323797	PAINT NEW TRAFFIC SIGNAL POST	EACH	1		1			
Z0023204	SEDIMENT CONTROL, SILT FENCE	FOOT	1675	1675				
Z0023206	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	168	168				
Z0026346	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1				
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1		1			
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	2061	2061				
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1			1		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1				
X8250110	LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA	EACH	1			1		
X8360360	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8"	EACH	3			3		
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	2696		2696			
X8950700	REMOVE TEMPORARY INTERCONNECT	L SUM	1		1			
XX006862	TEMPORARY VIDEO DETECTION	L SUM	1		1			

● SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

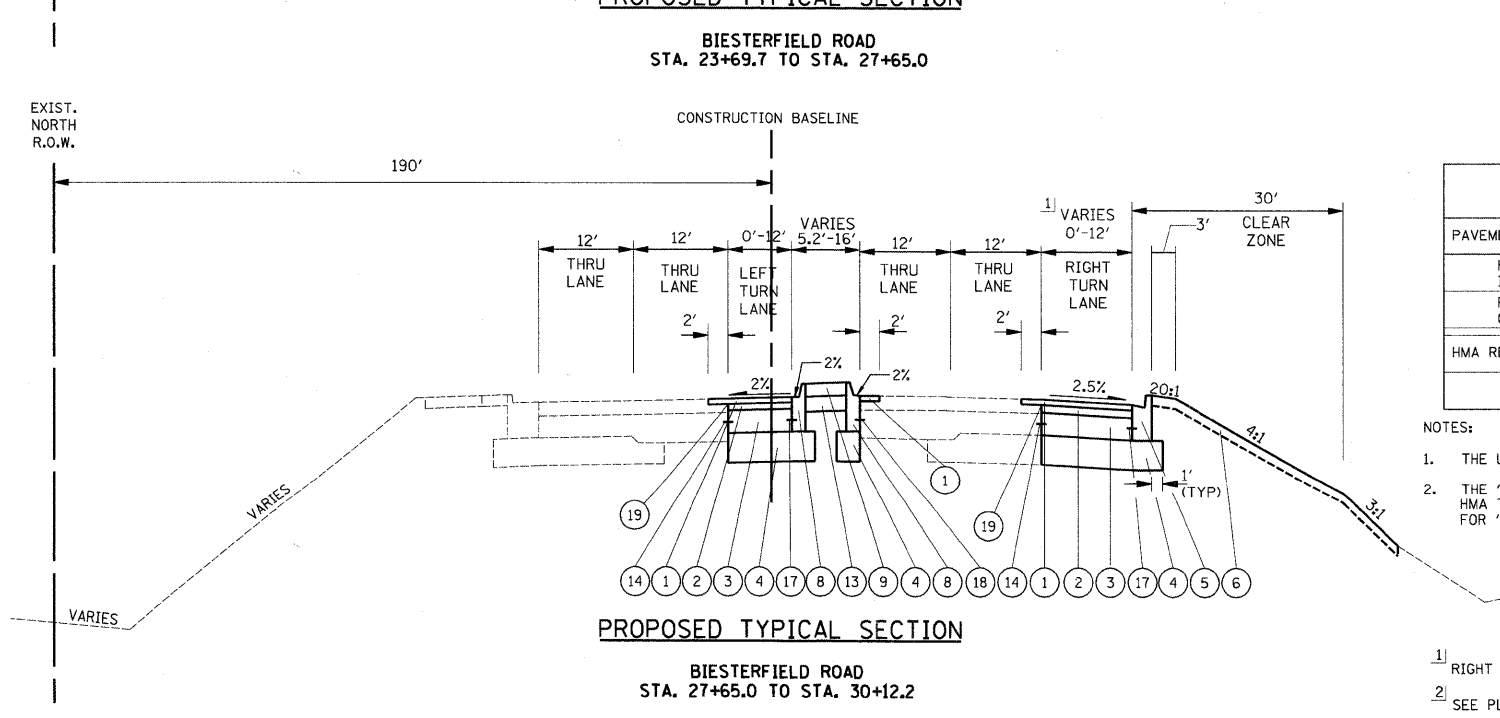
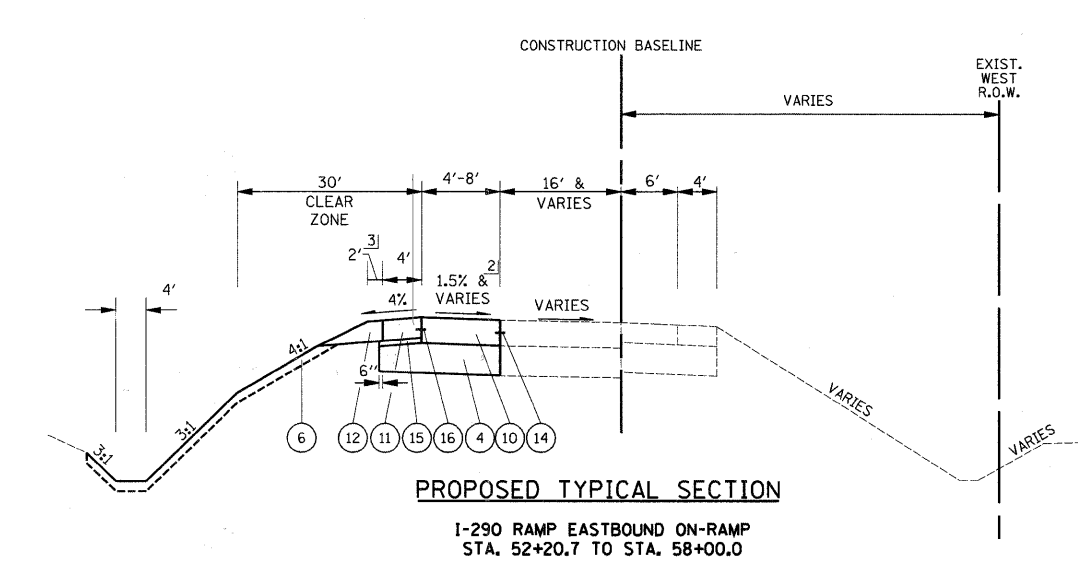
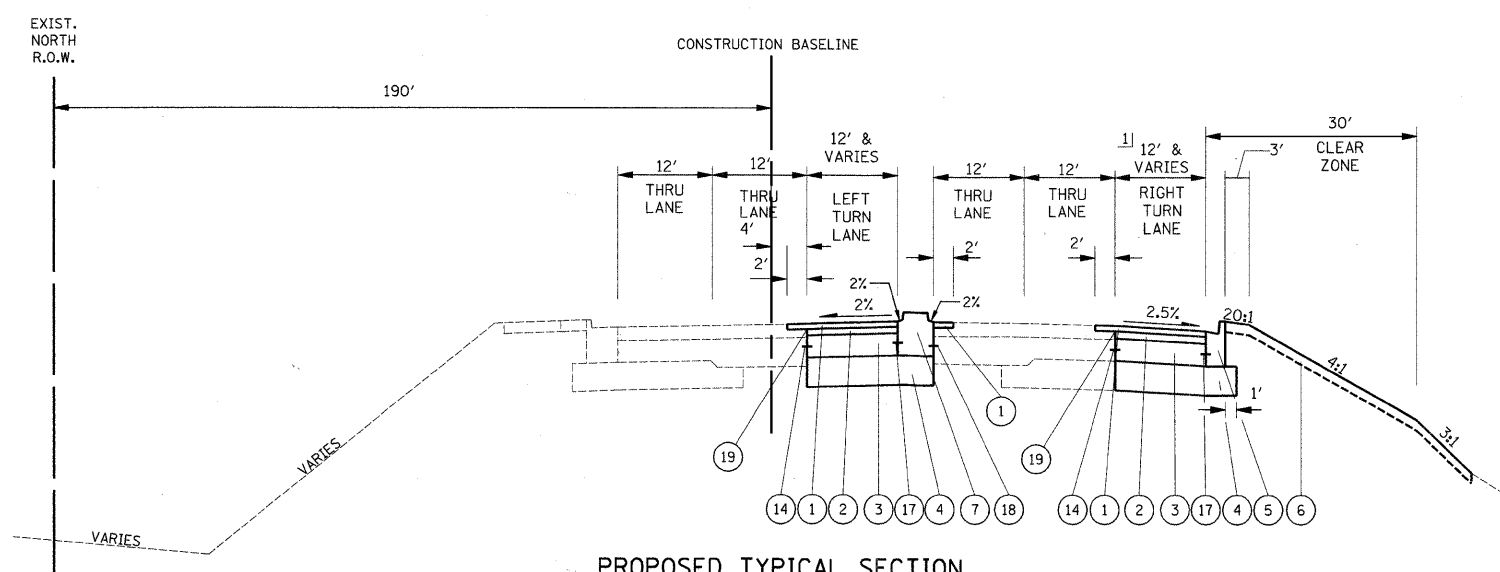
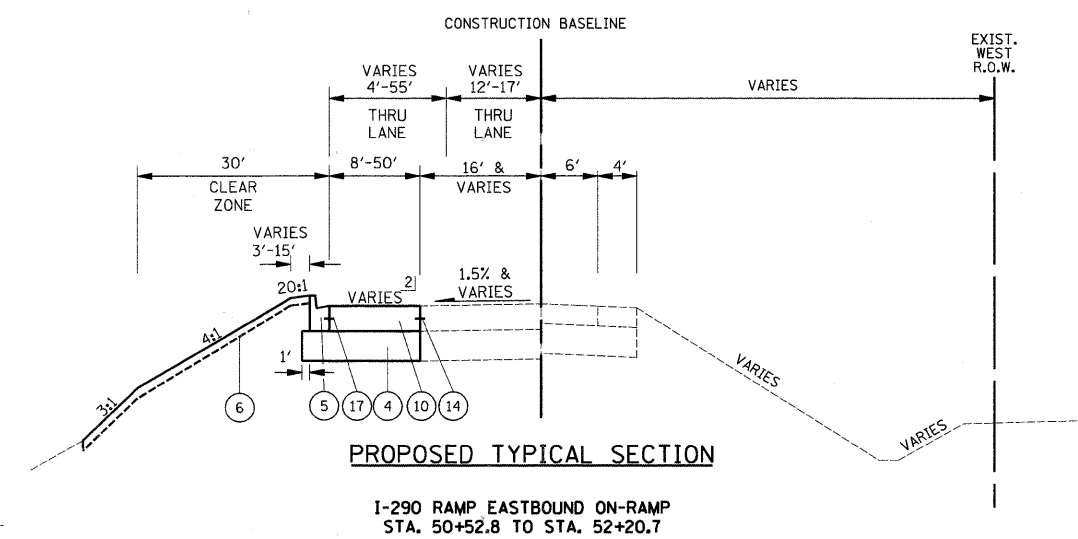
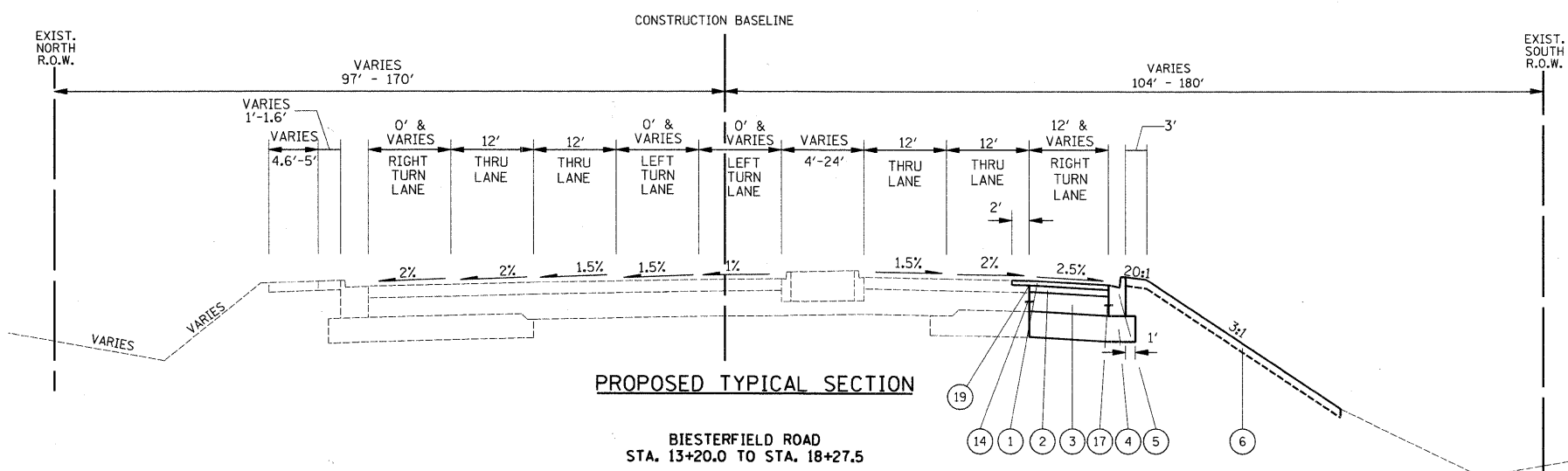
SHEET NO. 4 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	7
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003569				



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RENOVATION	
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RENOVATION	
RESTORATION	
REUSE	
RECYCLING	

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REPLACEMENT	
RENOVATION	
RESTORATION	
REUSE	
RECYCLING	



THE CONTRACTOR SHALL MILL BEFORE PATCHING.  
**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

PAY ITEM	AIR VOIDS @ Ndes
PAVEMENT WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "F", N90 - 1 3/4" (1L-9.5mm)	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"	4% @ 90 GYR.
HMA REPLACEMENT OVER PATCHING	
HMA REPLACEMENT OVER PATCHING	4% @ 70 GYR.

- NOTES:
- THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY-IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" 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.

- RIGHT TURN LANE WIDENING STA. 24+50 TO STA. 28+00
- SEE PLAN AND PROFILE AND INTERSECTION GRADING PLAN FOR CROSS SLOPE INFORMATION
- PAY LIMITS OF AGGREGATE SHOULDERS, TYPE B 8"

- LEGEND**
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 1 3/4"
  - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 1/4"
  - P.C.C. BASE COURSE 8"
  - AGGREGATE SUBGRADE 12"
  - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
  - TOPSOIL, FURNISH AND PLACE 4" & SEEDING, CLASS 2A
  - CONCRETE MEDIAN, TYPE SB-6.06
  - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
  - CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
  - P.C.C. PAVEMENT, 10 1/4" (JOINTED)
  - P.C.C. SHOULDERS, 8"
  - AGGREGATE SHOULDERS, TYPE B 8"
  - SUB-BASE GRANULAR MATERIAL, TYPE B 6"
  - \*8 EPOXY COATED TIE BAR, DEFORMED, 24" LONG @ 24" C-C (DRILLED AND GROUTED) (EMBED 8" MIN)
  - SUB-BASE GRANULAR MATERIAL, TYPE C
  - \*6 TIE BAR, PER STD 483001-04 (INCLUDED IN COST OF P.C.C. SHOULDERS, 8")
  - \*6 TIE BAR, PER STD 606001-04 (INCLUDED IN COST OF COMB. CURB AND GUTTER, TYPE B-6.24, COMB. CONC. CURB AND GUTTER, TYPE B-6.06 OR CONC. MEDIAN, TYPE SB-6.06)
  - \*6 EPOXY COATED TIE BAR, DEFORMED, 24" LONG @ 24" C-C (DRILLED AND GROUTED) (EMBED 8" MIN)
  - STRIP REFLECTIVE CRACK CONTROL TREATMENT

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
 PROPOSED TYPICAL SECTIONS**  
 NOT TO SCALE SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	9
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-90035691				



EARTHWORK SCHEDULE - BIESTERFIELD ROAD			
ITEM	UNIT	STAGE 1	STAGE 2
EARTH EXCAVATION	C.Y.	992	604
EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	C.Y.	843	513
EMBANKMENT REQUIRED	C.Y.	2117	31
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	C.Y.	-1274	+482

EARTHWORK SCHEDULE - EASTBOUND ON-RAMP			
ITEM	UNIT	STAGE 1	STAGE 2
EARTH EXCAVATION	C.Y.	1195	-
EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	C.Y.	1016	-
EMBANKMENT REQUIRED	C.Y.	2351	-
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	C.Y.	-1335	-

SHRINKAGE CALCULATED USING 15% SHRINKAGE FACTOR

A PAY ITEM FOR "FURNISHED EXCAVATION" HAS BEEN INCLUDED ON THE ASSUMPTION THAT, DUE TO LIMITED WORKING SPACE, ALL EMBANKMENT MAY HAVE TO BE BROUGHT IN FROM OUTSIDE THE PROJECT LIMITS.

SCHEDULE OF TREE REMOVAL	
STATION	6 TO 15 UNIT DIAMETER
14+48, RT	7
15+89, RT	8
16+04, RT	8
16+20, RT	8
25+83, RT	10
26+48, RT	7
26+85, RT	7
27+39, RT	7

SCHEDULE OF TREE REMOVAL	
STATION	OVER 15 UNIT DIAMETER
14+34, RT	18

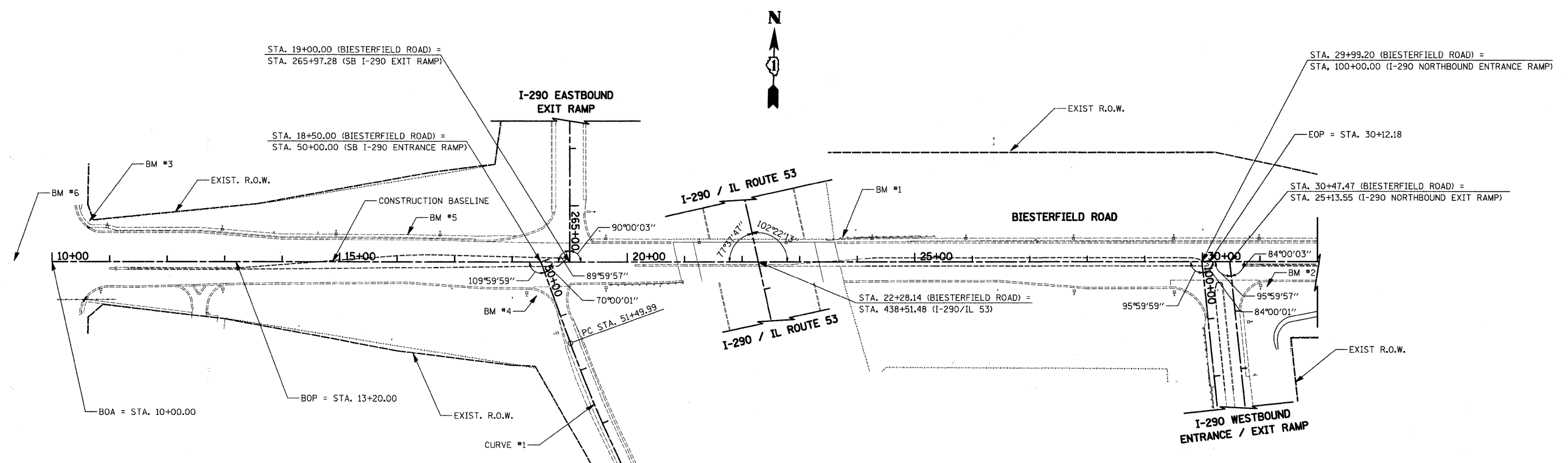
SCHEDULE OF CLASS B PATCHES, TYPE 2, 10"	
STATION	AREA (SQ YD)
50+89, LT	14

SCHEDULE OF CLASS B PATCHES, TYPE 1, 12"	
STATION	AREA (SQ YD)
14+40, RT	3.5
15+91, RT	3.5
17+41, RT	3.5
19+38, RT	3.5
25+59, RT	3.5
27+19, RT	3.5

PATCHING AT THESE LOCATIONS SHALL ONLY BE PERFORMED WHEN REQUIRED FOR THE INSTALLATION OF THE PROPOSED DRAINAGE STRUCTURES AND STORM SEWERS, AS DETERMINED BY THE ENGINEER.

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ALIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 GRADES: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NO. \_\_\_\_\_



BIESTERFIELD ROAD ALIGNMENT DATA

POINT NO.	STATION	NORTHING	EASTING
BOA	10+00.00	1943939.401	1066349.330
BOP	13+20.00	1943945.246	1066669.277
EOP	30+12.18	1943976.155	1068361.176
EOA	40+00.00	1943994.198	1069348.830

SOUTHBOUND ENTRANCE RAMP ALIGNMENT DATA

POINT NO.	STATION	NORTHING	EASTING
BOA	50+00.00	1943954.927	1067199.194
EOP	58+00.00	1943241.801	1067557.370

SOUTHBOUND ENTRANCE RAMP CURVE #1 ALIGNMENT DATA

POINT NO.	STATION	NORTHING	EASTING
P.C.	51+49.99	1943814.945	1067253.058
P.I.	53+50.50	1943627.805	1067325.067
P.T.	55+50.00	1943456.014	1067428.479

**CURVE #1**  
 P.I. STA= 53+50.50  
 $\Delta = 10^{\circ} 00' 01''$   
 $D = 2^{\circ} 30' 00''$   
 $R = 2291.83'$   
 $T = 200.52'$   
 $L = 400.01'$   
 $E = 8.76'$   
 $e = 1.50\%$  (PER RECORD PLANS)  
 P.C. STA= 51+49.99  
 P.T. STA= 55+50.00

**NOTES:**  
 BOA = BEGINNING OF ALIGNMENT  
 BOP = BEGINNING OF PROJECT  
 EOA = END OF ALIGNMENT  
 EOP = END OF PROJECT  
 P.I. = POINT OF INTERSECTION  
 P.C. = POINT OF CURVATURE  
 P.T. = POINT OF TANGENT  
 BM = BENCHMARK

SOUTHBOUND ENTRANCE RAMP CURVE #2 ALIGNMENT DATA

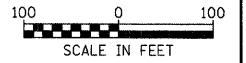
POINT NO.	STATION	NORTHING	EASTING
P.C.	57+84.86	1943254.796	1067549.606
P.I.	61+24.64	1942963.692	1067724.840
P.T.	64+59.50	1942634.267	1067808.078

**CURVE #2**  
 P.I. STA= 61+24.64  
 $\Delta = 16^{\circ} 51' 58''$   
 $D = 2^{\circ} 30' 00''$   
 $R = 2291.83'$   
 $T = 339.78'$   
 $L = 674.64'$   
 $E = 25.05'$   
 $e = 2.00\%$  (PER RECORD PLANS)  
 P.C. STA= 57+84.86  
 P.T. STA= 64+59.50

**BENCHMARKS**

- REF BM NGS PID-MF0043; THE STATION IS LOCATED ALONG ROUTE 53, 290 FEET SOUTH OF THE CENTERLINE OF HOLLYWOOD AVENUE AND 48.6 FEET EAST OF THE CENTERLINE OF ROUTE 53. THE STATION IS 141 FEET NORTHWEST OF THE SOUTHWEST CORNER OF AN INDUSTRIAL OFFICE BUILDING (ADDRESS 701 ROUTE 53). THE MONUMENT IS A 3.5 INCH DISK IN THE TOP OF A CONCRETE MONUMENT WITH A PVC SLEEVE AND A 6 INCH LID. DISK IS 2.0 FEET BELOW LID. ELEV. = 735.66
- BM #1 RIM OF TRAFFIC SIGNAL MANHOLE LOCATED APPROXIMATELY 13 FEET EAST OF THE I-290 BRIDGE (NORTH SIDE OF BIESTERFIELD ROAD). ELEV. = 726.11
- BM #2 NORTHEAST CORNER OF THE TRAFFIC SIGNAL CONTROL BOX LOCATED AT THE SOUTHEAST CORNER OF THE I-290 EXIT RAMP AND BIESTERFIELD ROAD (SOUTH SIDE OF BIESTERFIELD ROAD). ELEV. = 714.10
- BM #3 NORTHWEST BONNET BOLT OF FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF MARTHA STREET AND BIESTERFIELD ROAD (SOUTH SIDE OF BIESTERFIELD ROAD). ELEV. = 704.66
- BM #4 NORTH CORNER OF THE TRAFFIC SIGNAL CONTROL BOX LOCATED APPROXIMATELY 250 FEET WEST OF THE I-290 BRIDGE (SOUTH SIDE OF BIESTERFIELD ROAD). ELEV. = 723.65
- BM #5 RIM OF TRAFFIC SIGNAL MANHOLE LOCATED APPROXIMATELY 560 FEET EAST OF THE INTERSECTION OF BIESTERFIELD ROAD AND ROHLWING ROAD (NORTH SIDE OF BIESTERFIELD ROAD). ELEV. = 719.94
- BM #6 CROSS CUT IN NOSE OF CONCRETE MEDIAN AT THE INTERSECTION OF BIESTERFIELD ROAD AND ROHLWING ROAD. ELEV. = 710.36

ELEVATIONS ARE BASED ON USGS DATUM



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BY	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

DATE	
BY	
SURVEYED	
PLOTTED	
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NOTE BOOK NO.	
STRUCTURE NOTATION	

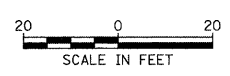
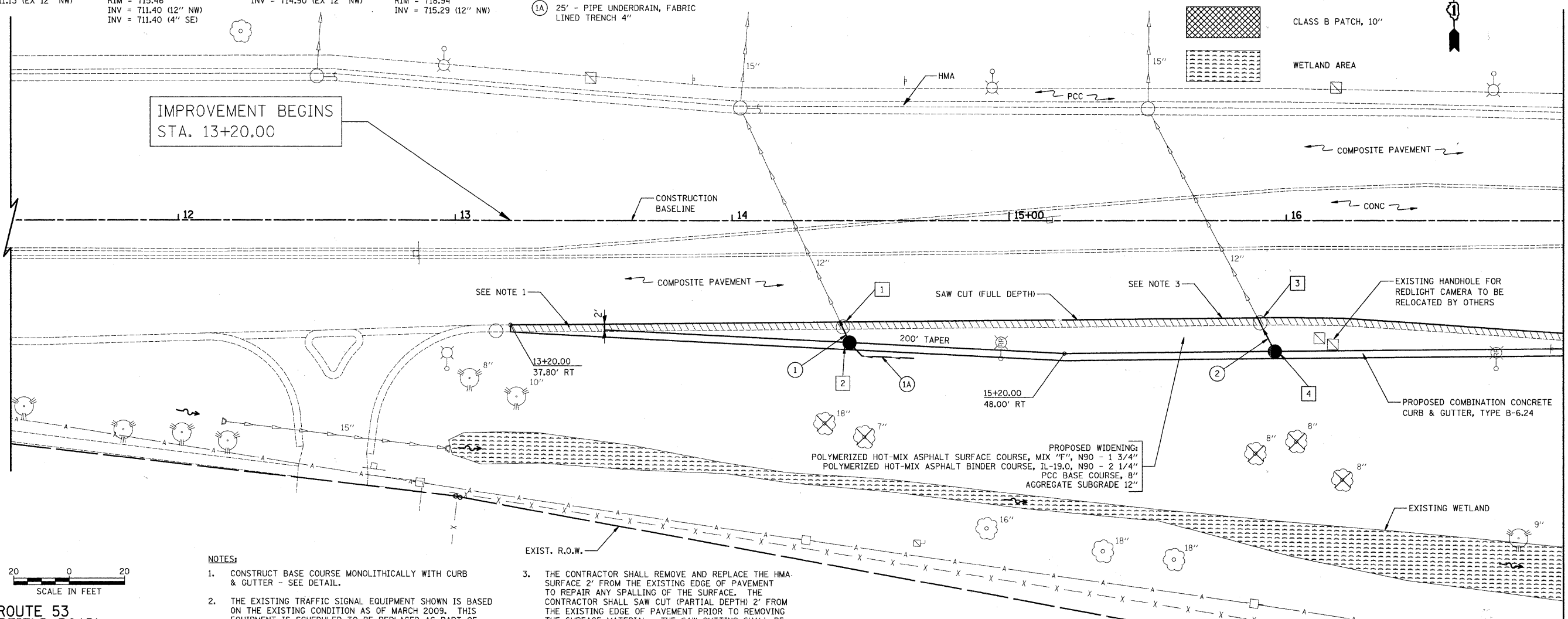
- 1 STA. 14+40.05, 38.5' RT  
REMOVING CB  
TO MAINTAIN FLOW  
INV = 711.13 (EX 12" NW)
- 2 STA. 14+42.42, 44.0' RT  
CB T-A, 4" DIA  
TYPE 24 F & G  
RIM = 715.46  
INV = 711.40 (12" NW)  
INV = 711.40 (4" SE)
- 3 STA. 15+90.63, 37.0' RT  
REMOVING CB  
TO MAINTAIN FLOW  
INV = 714.90 (EX 12" NW)
- 4 STA. 15+95.93, 47.3' RT  
CB T-A, 4" DIA  
TYPE 24 F & G  
RIM = 718.94  
INV = 715.29 (12" NW)
- 1 9' - 12" S.S., CL. A, T-2 @ 3.0%  
T.B.F. = 2.4 CU. YD.
- 2 14' - 12" S.S., CL. A, T-2 @ 2.8%  
T.B.F. = 3.2 CU. YD.
- 1A 25' - PIPE UNDERDRAIN, FABRIC  
LINED TRENCH 4"

**LEGEND**

REMOVAL HATCH

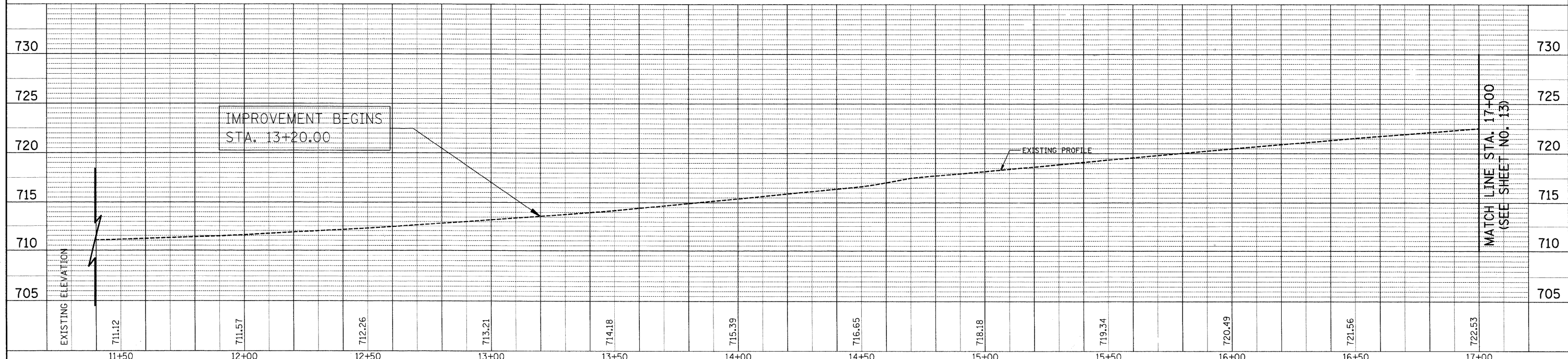
CLASS B PATCH, 10"

WETLAND AREA



**IL ROUTE 53  
(BIESTERFIELD ROAD)**

- NOTES:**
- CONSTRUCT BASE COURSE MONOLITHICALLY WITH CURB & GUTTER - SEE DETAIL.
  - THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN IS BASED ON THE EXISTING CONDITION AS OF MARCH 2009. THIS EQUIPMENT IS SCHEDULED TO BE REPLACED AS PART OF IDOT'S CONTRACT NO. 60J32.
  - THE CONTRACTOR SHALL REMOVE AND REPLACE THE HMA SURFACE 2' FROM THE EXISTING EDGE OF PAVEMENT TO REPAIR ANY SPALLING OF THE SURFACE. THE CONTRACTOR SHALL SAW CUT (PARTIAL DEPTH) 2' FROM THE EXISTING EDGE OF PAVEMENT PRIOR TO REMOVING THE SURFACE MATERIAL. THE SAW CUTTING SHALL BE INCLUDED IN THE COST OF "HMA SURFACE REMOVAL, 1 3/4".



FILE NAME =	USER NAME = djk	DESIGNED - BLG	REVISED -	<b>IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290</b>				F.A.I. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 12
... \2349\road\sheet\2349.D&U 01.dgn		DRAWN - BLG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>PLAN AND PROFILE</b>		<b>CONTRACT NO. 63505</b>		
	PLOT SCALE = 20,0000' / IN.	CHECKED - DJK	REVISED -	SCALE: 1" = 20'				SHEET NO. 1 OF 6 SHEETS		STA. 13+20.0 TO STA. 17+00.0		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)
	PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -									

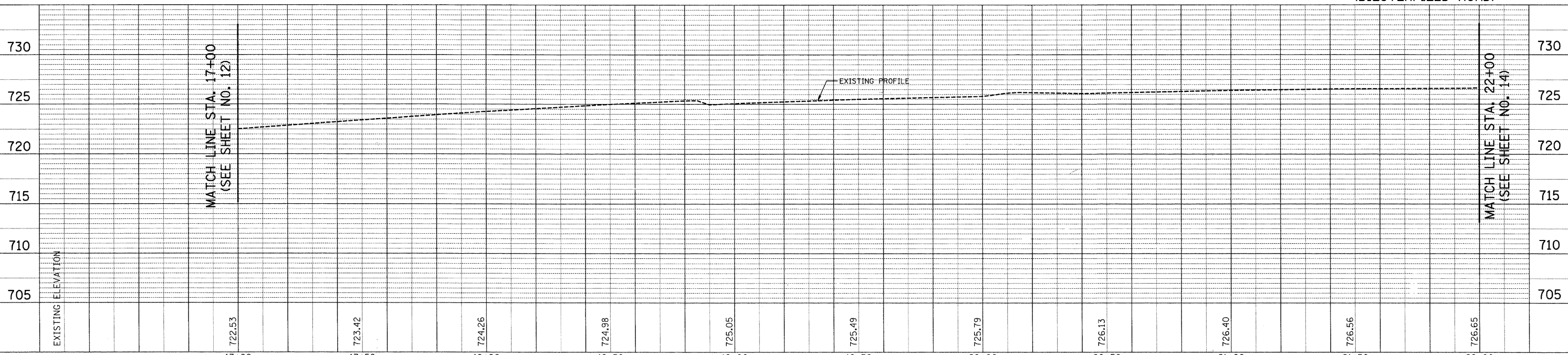
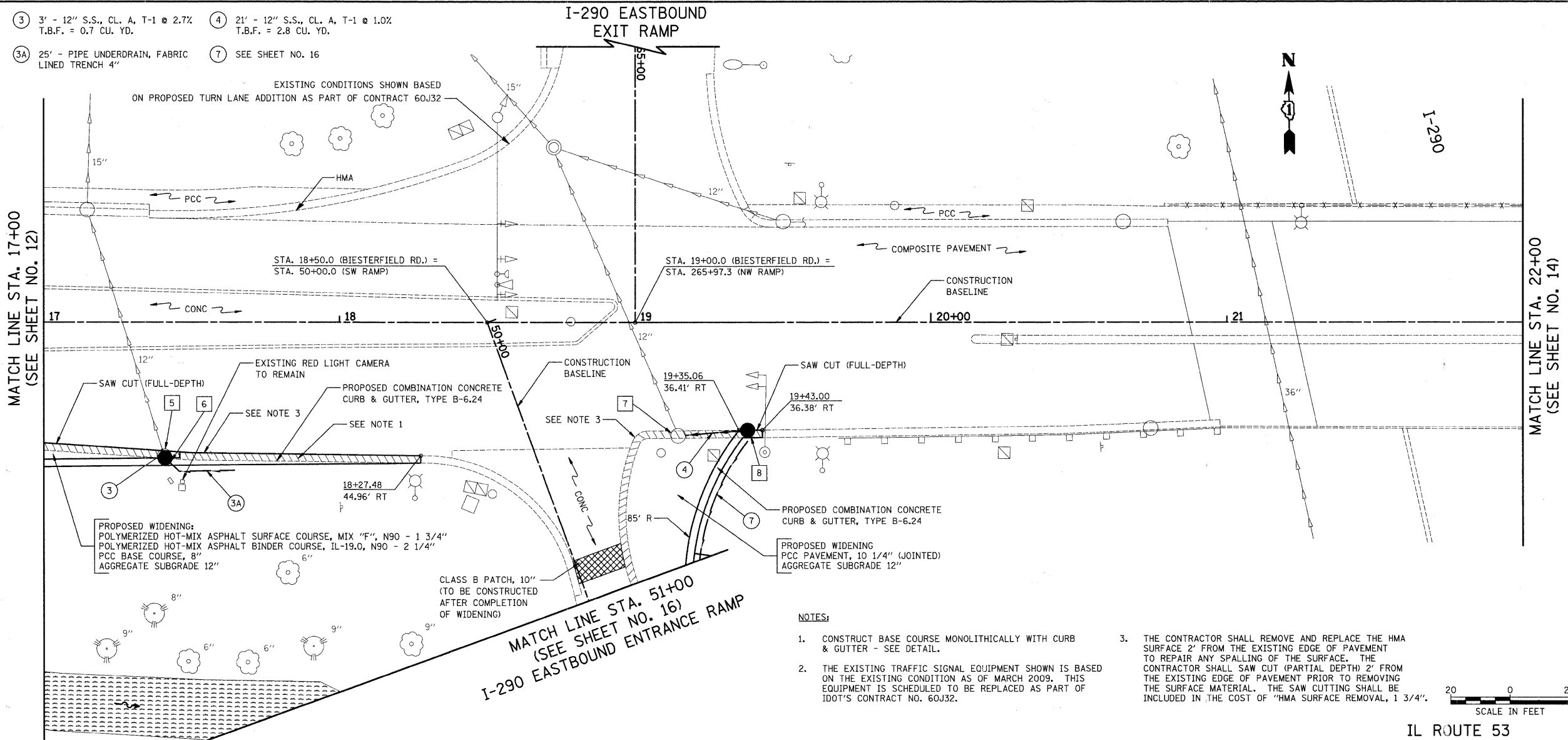
MATCH LINE STA. 17+00  
(SEE SHEET NO. 13)

MATCH LINE STA. 17+00  
(SEE SHEET NO. 13)

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	STRUCTURE NOTATIONS CHECKED		

- 5 STA. 17+40.77, 45.3' RT  
REMOVING CB  
TO MAINTAIN FLOW  
INV = 717.99 (EX 12" NW)
- 6 STA. 17+41.01, 45.8' RT  
CB T-A, 4' DIA  
TYPE 24 F & G  
RIM = 721.88  
INV = 718.07 (12" NW)  
INV = 718.07 (4" SE)
- 7 STA. 19+14.50, 38.3' RT  
CB TO BE ADJUSTED  
W/ NEW T-1 FR., C.L.  
EX RIM = 724.37  
PR RIM = 724.50  
INV = 722.17 (EX 12" NW)  
INV = 722.17 (12" E)
- 8 STA. 19+38.00, 36.4' RT  
CB T-A, 4' DIA  
TYPE 24 F & G  
RIM = 724.69  
INV = 722.38 (12" W)



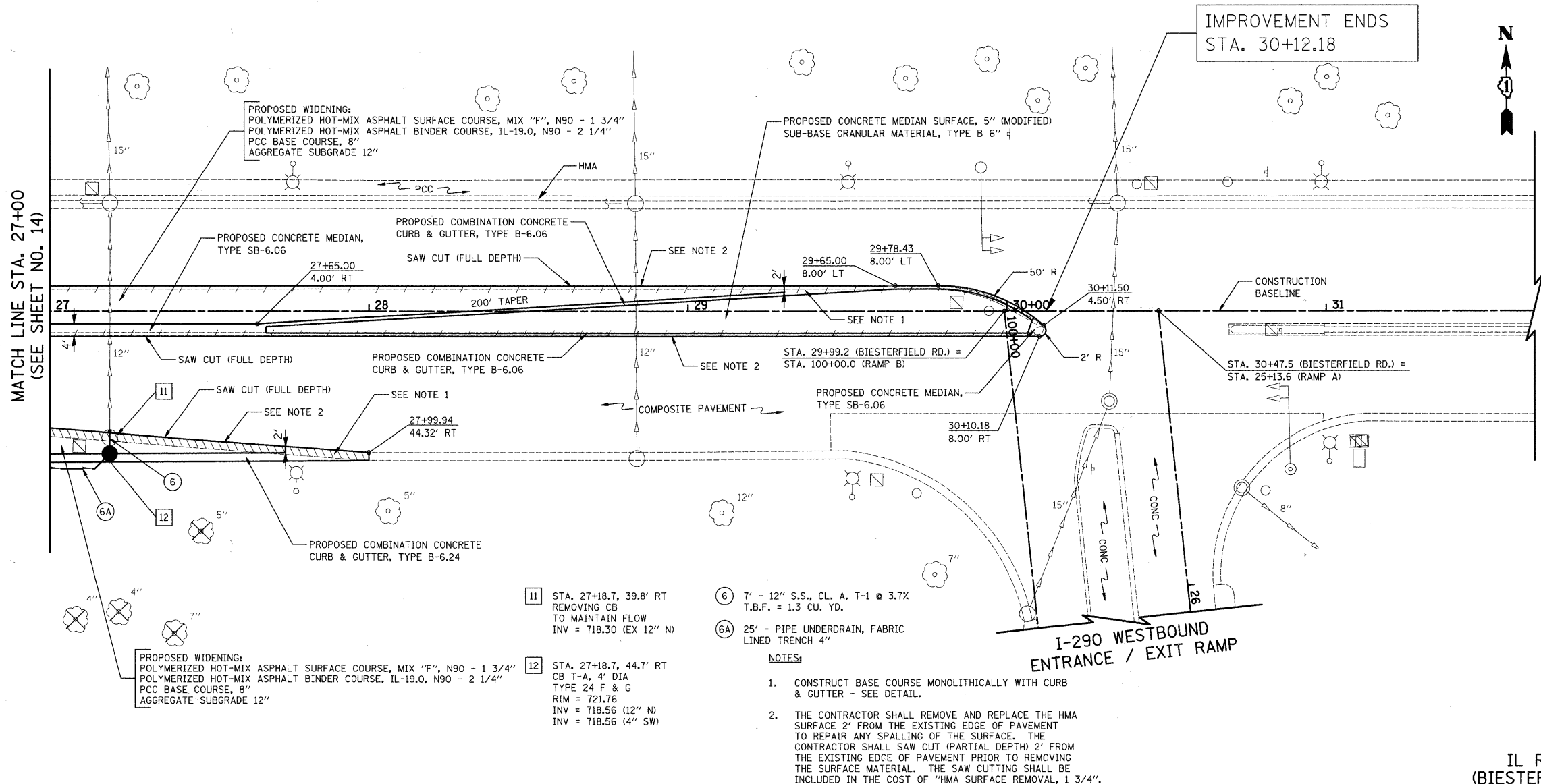
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	PLOT SCALE = 20,000' / IN.	CHECKED - DJK	REVISED -		SCALE: 1" = 20'	SHEET NO. 2 OF 6 SHEETS	STA. 17+00.0 TO STA. 22+00.0	CONTRACT NO. 63505				
	PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT ARA-M-90031569							





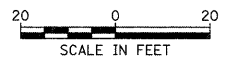
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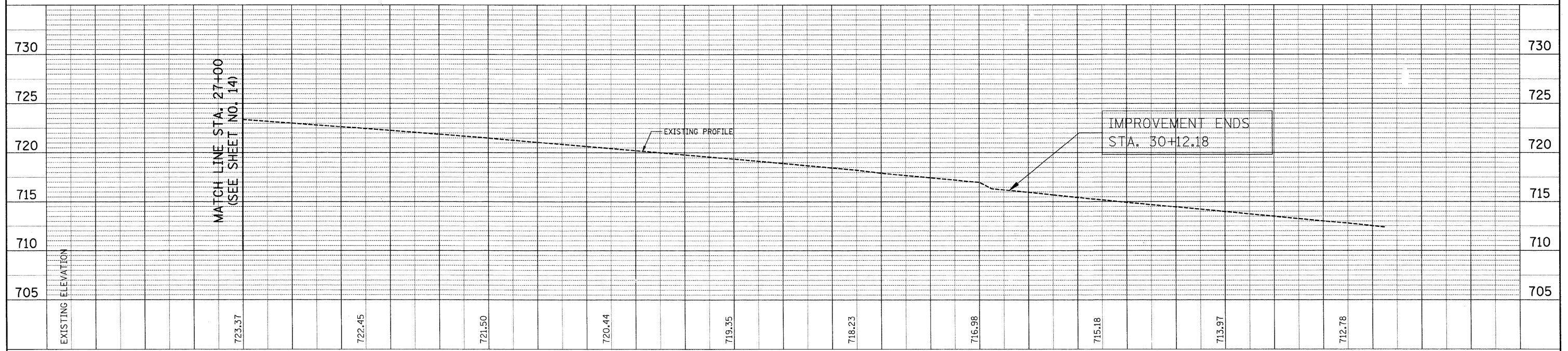


- 11 STA. 27+18.7, 39.8' RT  
REMOVING CB  
TO MAINTAIN FLOW  
INV = 718.30 (EX 12" N)
- 12 STA. 27+18.7, 44.7' RT  
CB T-A, 4' DIA  
TYPE 24 F & G  
RIM = 721.76  
INV = 718.56 (12" N)  
INV = 718.56 (4" SW)
- 6 7' - 12" S.S., CL. A, T-1 @ 3.7%  
T.B.F. = 1.3 CU. YD.
- 6A 25' - PIPE UNDERDRAIN, FABRIC  
LINED TRENCH 4"

- NOTES:
- CONSTRUCT BASE COURSE MONOLITHICALLY WITH CURB & GUTTER - SEE DETAIL.
  - THE CONTRACTOR SHALL REMOVE AND REPLACE THE HMA SURFACE 2" FROM THE EXISTING EDGE OF PAVEMENT TO REPAIR ANY SPALLING OF THE SURFACE. THE CONTRACTOR SHALL SAW CUT (PARTIAL DEPTH) 2" FROM THE EXISTING EDGE OF PAVEMENT PRIOR TO REMOVING THE SURFACE MATERIAL. THE SAW CUTTING SHALL BE INCLUDED IN THE COST OF "HMA SURFACE REMOVAL, 1 3/4".



IL ROUTE 53  
(BIESTERFIELD ROAD)



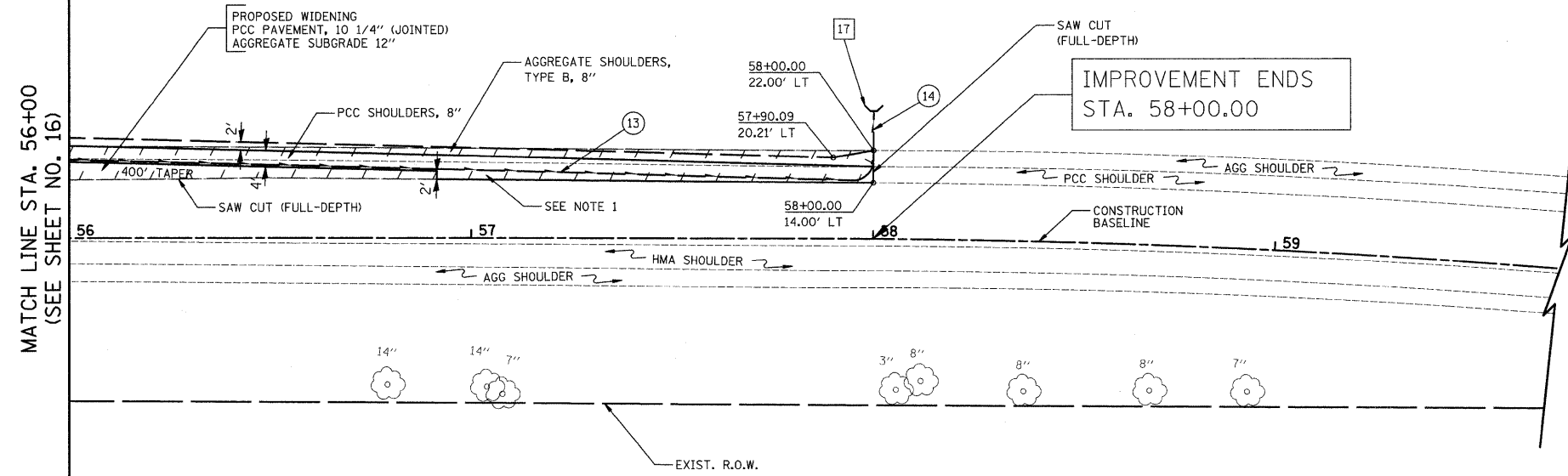
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PLOT SCALE = 20,0000' / IN.	CHECKED - DJK	DATE - 07-07-10	REVISED -			SCALE: 1" = 20'	SHEET NO. 4 OF 6 SHEETS	STA. 27+00.0 TO STA. 30+12.18	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	ARA-M-9003(569)
PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -	REVISED -			CONTRACT NO. 63505					



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 ALIGNED \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
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 BY: \_\_\_\_\_  
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 DRAWN \_\_\_\_\_  
 STRUCTURE NOTATIONS CHKD \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_

- 17 STA. 58+00.00, 31.7' LT CONCRETE HEADWALL FOR PIPE DRAINS INV = 703.63 (4" W)
- 13 SEE SHEET NO. 16
- 14 17'- PIPE UNDERDRAINS 4" (SPECIAL)

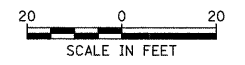


EDGE OF PAVEMENT OFFSETS

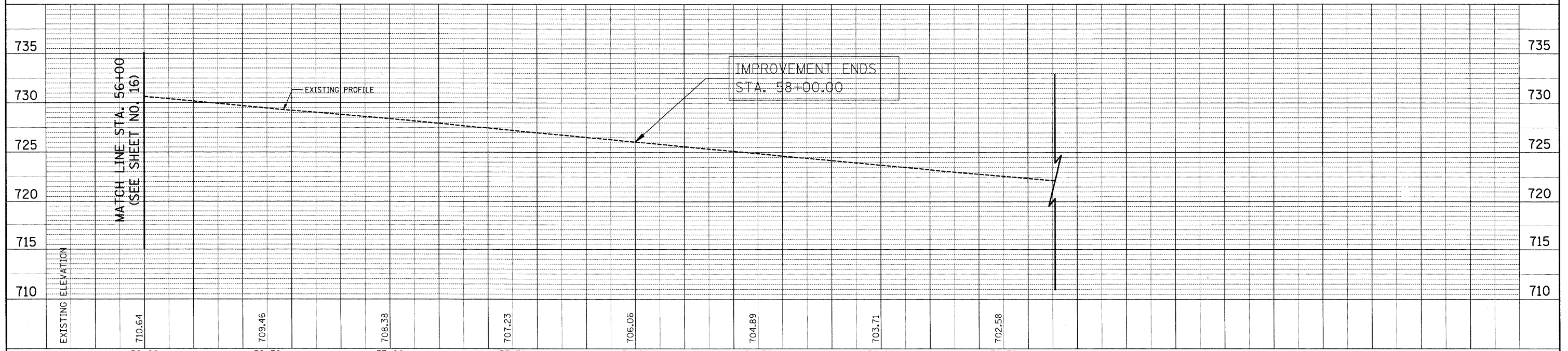
STATION	LT EOP	ELEVATION	SLOPE*
56+00	19.00' LT	710.82	0.97%
56+25	18.37' LT	710.28	1.24%
56+50	17.75' LT	709.74	1.51%
56+75	17.12' LT	709.22	1.69%
57+00	16.50' LT	708.69	1.86%
57+25	15.87' LT	708.14	2.33%
57+50	15.25' LT	707.59	2.80%
57+75	14.58' LT	707.03	3.04%
58+00	14.00' LT	706.47	3.27%

\* (MATCHING ADJACENT PAVEMENT SLOPE)

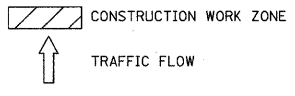
- NOTES:
- POUR CONCRETE SHOULDER MONOLITHICALLY WITH PAVEMENT WIDENING



I-290 EASTBOUND ENTRANCE RAMP

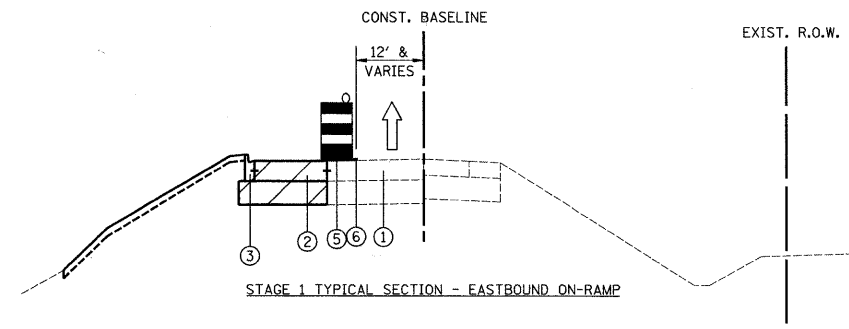
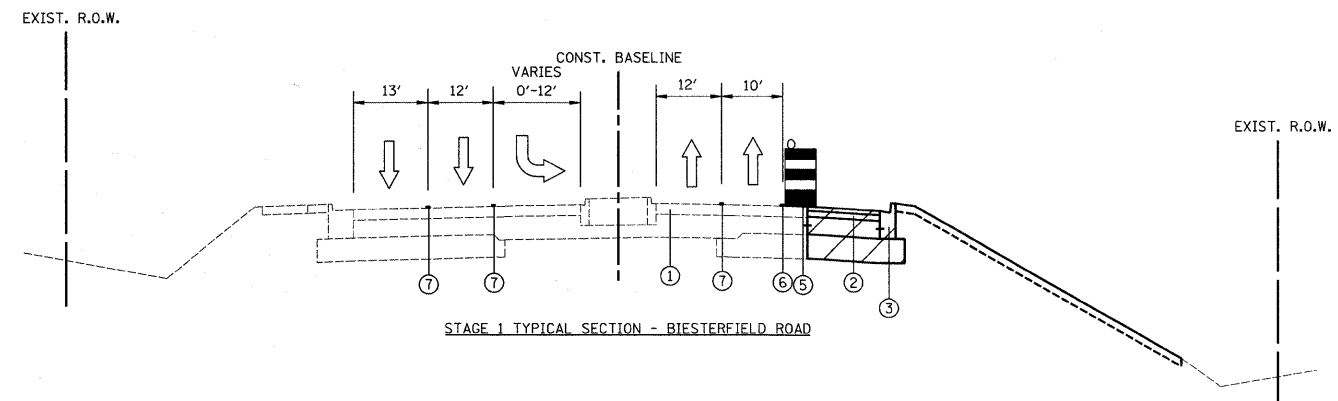


- LEGEND**
- ① EXISTING PAVEMENT
  - ② PROPOSED PAVEMENT
  - ③ PROPOSED COMB. CONCRETE CURB & GUTTER
  - ④ PROPOSED STAMPED MEDIAN
  - ⑤ DRUMS WITH MONO DIRECTIONAL STEADY BURN LIGHT
  - ⑥ PAVEMENT MARKING TAPE, TYPE III - LINE 4" (WHITE EDGE LINE)
  - ⑦ EXISTING WHITE LANE LINE (SOLID, DOTTED, OR SKIP-DASH)

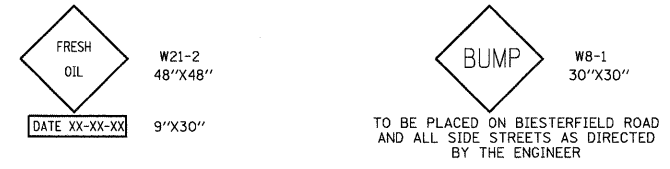
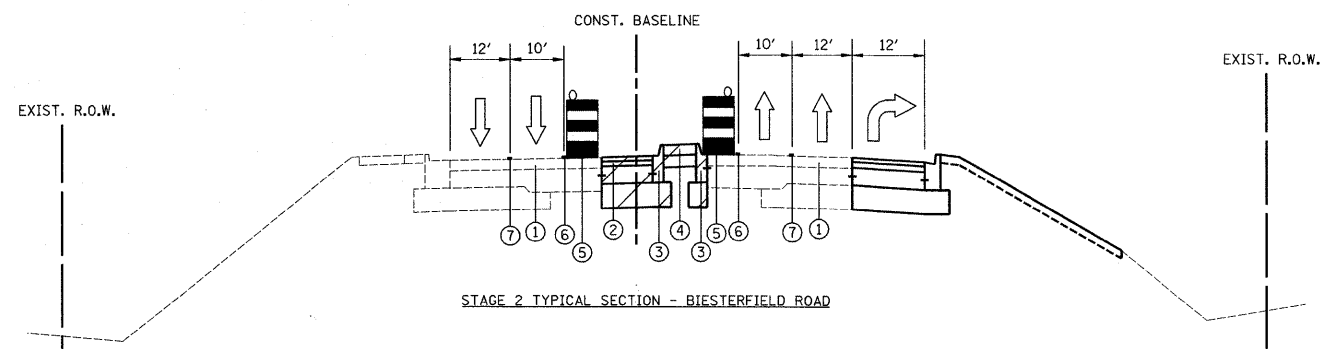


- STAGE 1**
1. PLACE ALL CONSTRUCTION SIGNS, TEMPORARY PAVEMENT MARKINGS AND BARRICADES.
  2. REMOVE EXISTING CURB AND GUTTER ON THE SOUTH SIDE OF BIESTERFIELD ROAD AND ON THE EASTBOUND ON-RAMP TO I-290 AND CONSTRUCT EMBANKMENT WIDENING.
  3. CONSTRUCT STORM SEWER AND REMOVE / ADJUST ALL DRAINAGE STRUCTURES AS MARKED ON THE DRAINAGE AND UTILITY PLANS.
  4. RELOCATE STREET LIGHTING AND CONTROLLER.
  5. CONSTRUCT ALL CURB AND GUTTER AND PAVEMENT ON THE SOUTH SIDE OF BIESTERFIELD ROAD AND ON THE EASTBOUND ON-RAMP TO I-290.
  6. PLACE TOPSOIL AND SEED AS MARKED ON THE LANDSCAPING PLANS.
  7. PLACE HMA SURFACE COURSE AND PERMANENT STRIPING
  8. CONSTRUCT CLASS B PATCH ON RAMP. TRAFFIC SHALL BE SHIFTED TO THE NEWLY CONSTRUCTED WIDENING WITH THE USE OF DRUMS.

- MAINTENANCE OF TRAFFIC GENERAL NOTES**
1. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE IDOT DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.
  2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
  3. ALL CONSTRUCTION SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.
  4. ALL SIGNS SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.
  5. DRUMS WITH MONO-DIRECTIONAL STEADY-BURN LIGHTS WILL BE REQUIRED ADJACENT TO PAVEMENT EDGES WHERE WIDENING, CURB AND GUTTER OR OVERLAYING WORK IS BEING DONE, AS SPECIFIED IN SECTION 701 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE BARRICADES SHALL BE DRUMS, NON-METALLIC WITH MONO-DIRECTIONAL STEADY-BURN LIGHTS. SPACING SHALL BE AS SHOWN ON THE CONSTRUCTION STAGING PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOPS OF THE BARRICADES ARE IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.
  6. ALL DRUMS AT LANE DIVERSIONS WITHIN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
  7. DRUMS EQUIPPED WITH ONE-WAY FLASHING LIGHTS WILL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, AND AT ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER OR LAW ENFORCEMENT AGENCIES. BARRICADES SHALL BE PLACED AT 50' CENTERS ALONG TANGENTS, 25' ALONG TAPERS AND 10' AROUND RADII.
  8. DRUMS SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.
  9. DRUMS SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SUPPLEMENTAL SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES".
  10. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
  11. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST TWO WEEKS IN ADVANCE OF THE CHANGE.
  12. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
  13. THE FIRST WARNING SIGNS IN EACH DIRECTION OF TRAVEL SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS DURING HOURS OF DARKNESS. FLAGS ARE OPTIONAL.
  14. "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGN MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.
  15. "FRESH OIL" SIGNS (W21-2-4848) WITH DATE SIGNS SHALL BE ERECTED 48 HOURS PRIOR TO PRIMING ALONG BIESTERFIELD ROAD. THE COST OF THESE SIGNS SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
  16. TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED ON ALL SURFACES. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING TAPE, TYPE III" OF THE SIZE SPECIFIED.
  17. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES, AND SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
  18. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, DRUMS, WARNING LIGHTS, AND SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)". QUANTITIES FOR SHORT-TERM PAVEMENT MARKINGS, TEMPORARY PAVEMENT MARKINGS, AND WORK ZONE PAVEMENT MARKING REMOVAL ARE NOT INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
  19. A QUANTITY FOR "CHANGEABLE MESSAGE SIGN" HAS BEEN INCLUDED FOR USE WHEN DIRECTED BY THE ENGINEER.
  20. EXCEPT FOR APPROVED CLOSURES AS DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS, ALL ROADS SHALL BE KEPT OPEN TO TRAFFIC DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR MAY CLOSE ONE LANE OF TRAFFIC (BECAUSE OF CONSTRUCTION) ONLY BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.  
  
WHEN NECESSARY TO CLOSE ONE LANE OF THE ROADWAY ON TWO-LANE ROADS, THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC DURING THE RESTRICTED HOURS WITH THE USE OF SIGNS AND FLAGGERS AS SHOWN ON THE TRAFFIC CONTROL STANDARDS. WHEN NECESSARY TO CLOSE ONE LANE OF THE ROADWAY ON FOUR-LANE ROADS, THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC DURING THE RESTRICTED HOURS WITH THE USE OF SIGNS AND BARRICADES AS SHOWN ON THE TRAFFIC CONTROL STANDARDS. ALL EXISTING LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED BETWEEN 3:00 PM AND 3:00 AM WHEN NO CONSTRUCTION ACTIVITIES ARE BEING CARRIED ON. THE ENGINEER MAY WAIVE THE LANE CLOSURE TIME RESTRICTION AT HIS DISCRETION.
  21. DROP-OFFS ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. DROP-OFFS GREATER THAN 18" WILL NOT BE ALLOWED WHEN TRAFFIC IS PRESENT IN THE ADJACENT LANE. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE WIDENING DURING THE HOURS THAT THE ADJACENT LANE IS CLOSED, AS NOTED ABOVE. PRIOR TO RE-OPENING THE LANE TO TRAFFIC THE CONTRACTOR SHALL PLACE SUFFICIENT MATERIAL TO REDUCE THE DROP-OFF TO LESS THAN 18". THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN THE TIME LIMIT OF THE DAILY LANE CLOSURE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.



- STAGE 2**
1. PLACE ALL CONSTRUCTION SIGNS, TEMPORARY PAVEMENT MARKINGS, AND BARRICADES.
  2. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, AND MEDIAN WITHIN STAGE 2 LIMITS.
  3. CONSTRUCT ALL CURB AND GUTTER, PAVEMENT, AND MEDIANS WITHIN STAGE 2 LIMITS.
  4. PLACE PERMANENT PAVEMENT MARKINGS ALONG ENTIRE LENGTH OF PROJECT.



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NOTE BOOK	
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STRUCTURE NOTATIONS CHKD	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

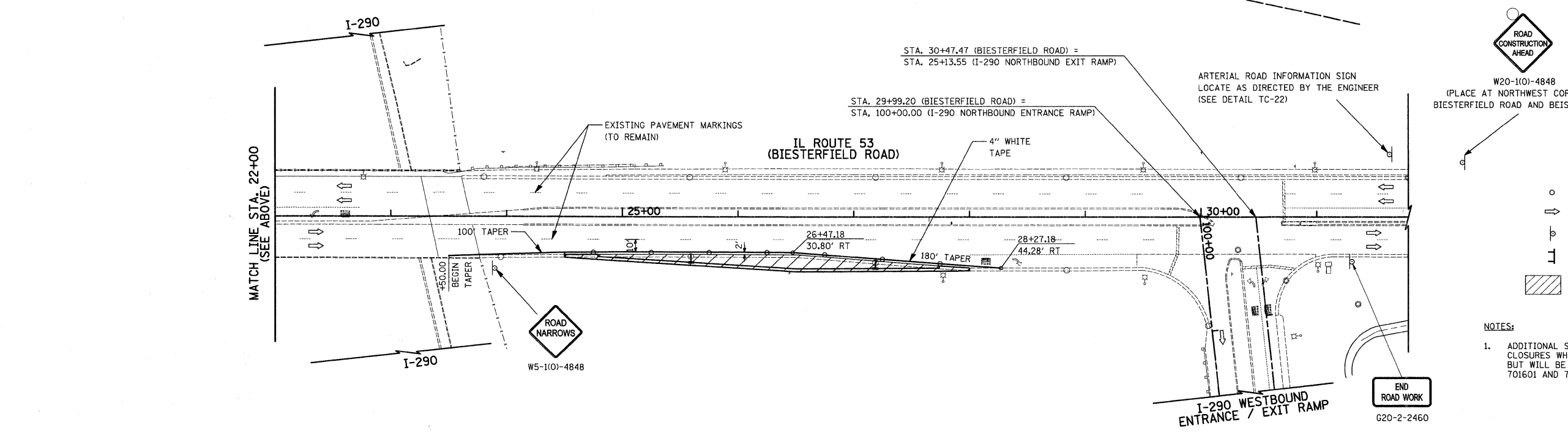
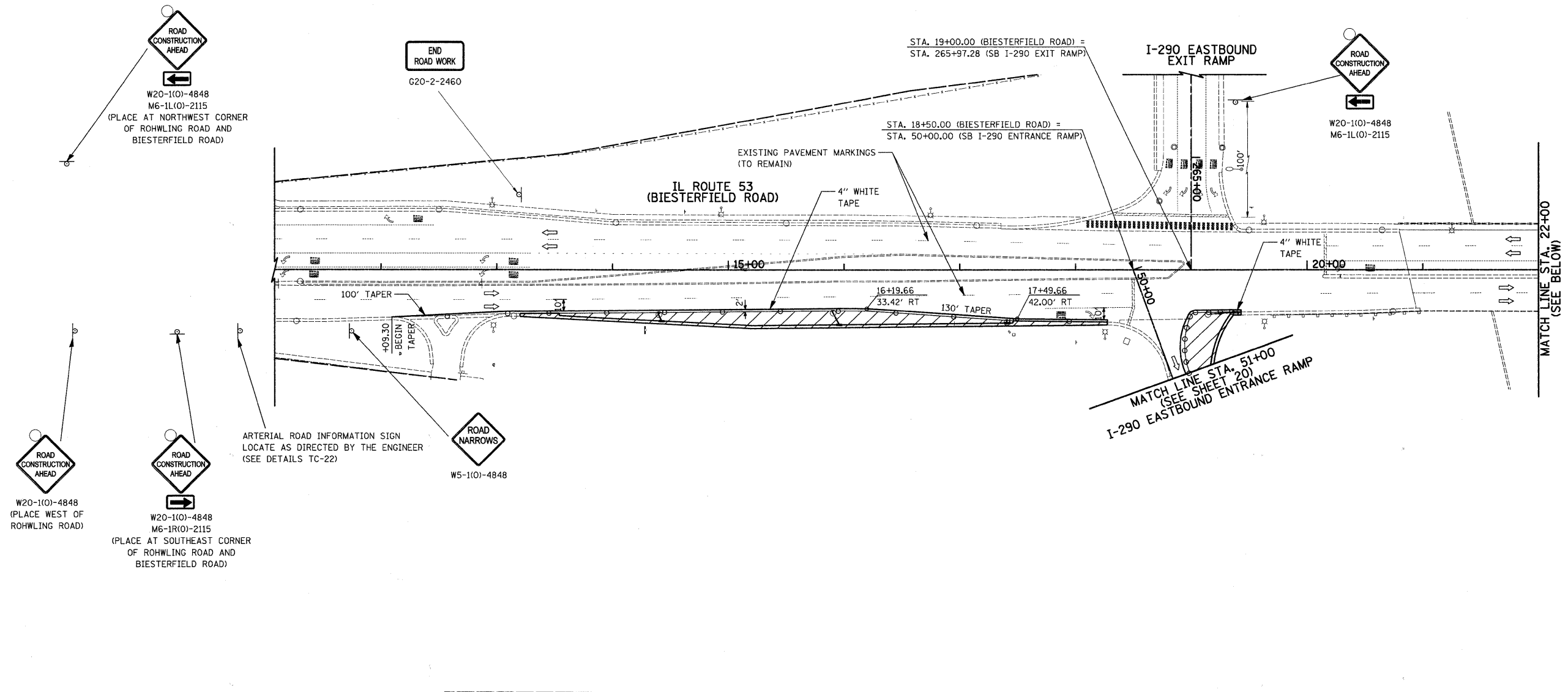
**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
MAINTENANCE OF TRAFFIC GENERAL NOTES AND TYPICAL SECTIONS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	18
CONTRACT NO. 63505			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT ARA-M-9003569	

SHEET NO. 1 OF 4 SHEETS

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	GRADE CHECKED	
	STRUCTURE NOTATIONS CHKD	
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NOTE BOOK	PLOTTED	
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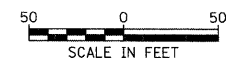
W20-1(O)-4848  
(PLACE AT NORTHWEST CORNER OF BIESTERFIELD ROAD AND BEISNER ROAD)

**LEGEND**

- DRUM
- ⇨ DIRECTION OF TRAFFIC
- ⊕ TEMPORARY TRAFFIC SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ▨ WORK ZONE

**NOTES:**

1. ADDITIONAL SIGNS SHALL BE REQUIRED FOR LANE CLOSURES WHICH ARE NOT SHOWN ON THE PLANS BUT WILL BE REQUIRED AS PER IDOT STANDARD 701601 AND 701701.



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PLOT DATE = 7/7/2010	CHECKED - DJK	REVISED -
	DATE - 07-07-10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
MAINTENANCE OF TRAFFIC - STAGE 1**

SHEET NO. 2 OF 4 SHEETS

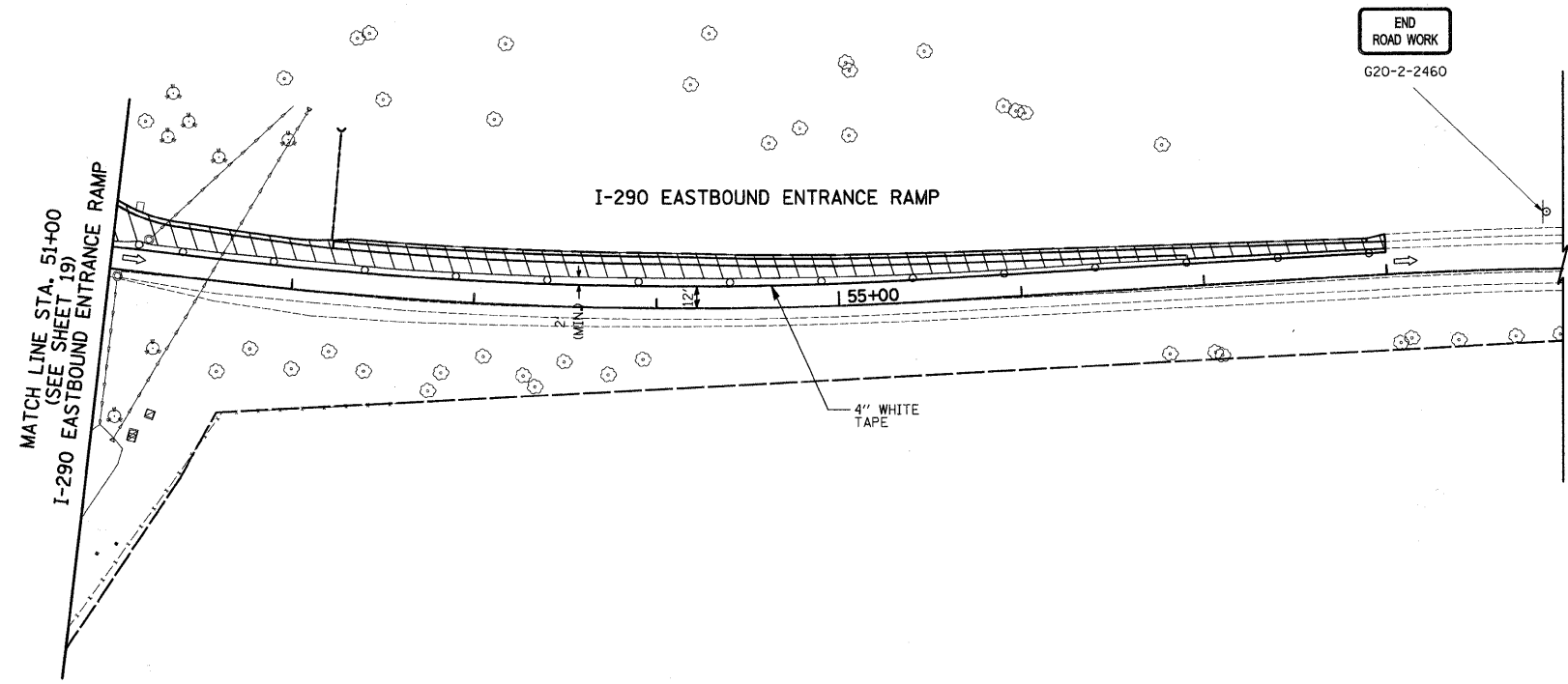
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CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-90035691				





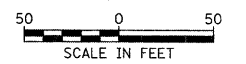
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NOTE BOOK NO.	GRADES CHECKED	
	PLOTTED	
	STRUCTURE NOTATIONS CHK'D	
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**LEGEND**

- DRUM
- ⇨ DIRECTION OF TRAFFIC
- ⊕ TEMPORARY TRAFFIC SIGN ON PERMANENT SUPPORT
- ⌌ TYPE III BARRICADE
- ▨ WORK ZONE

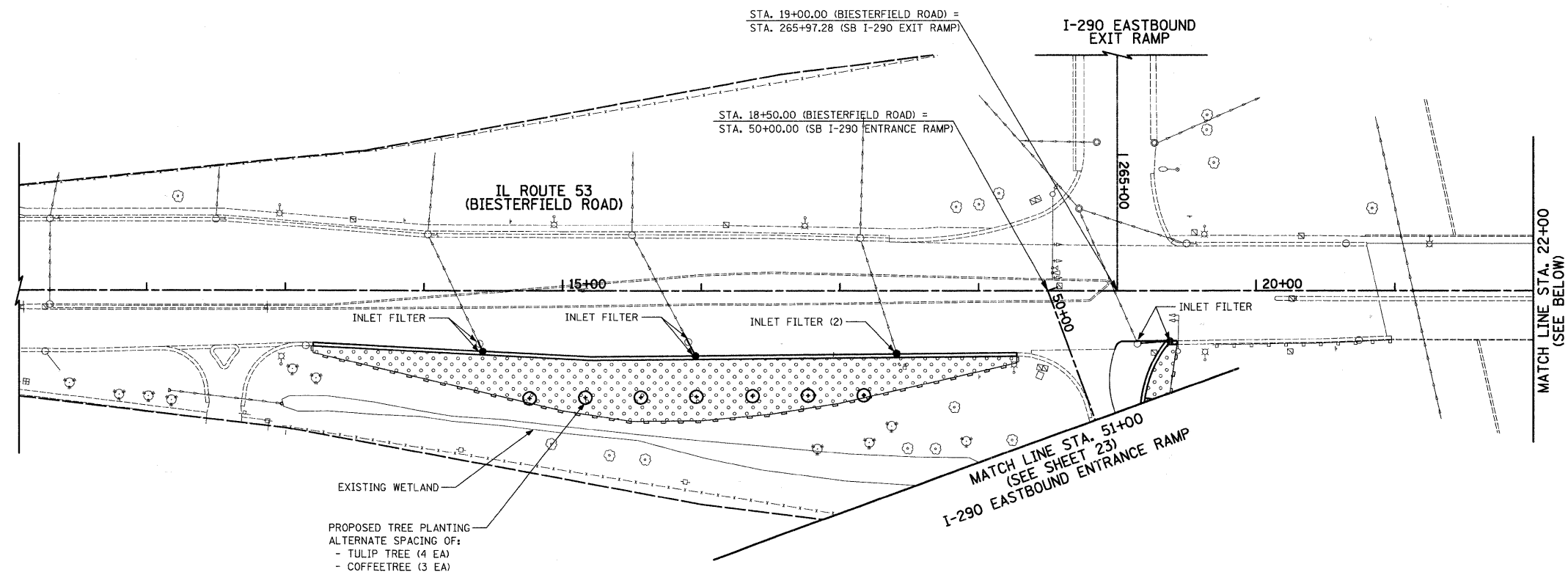


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						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				



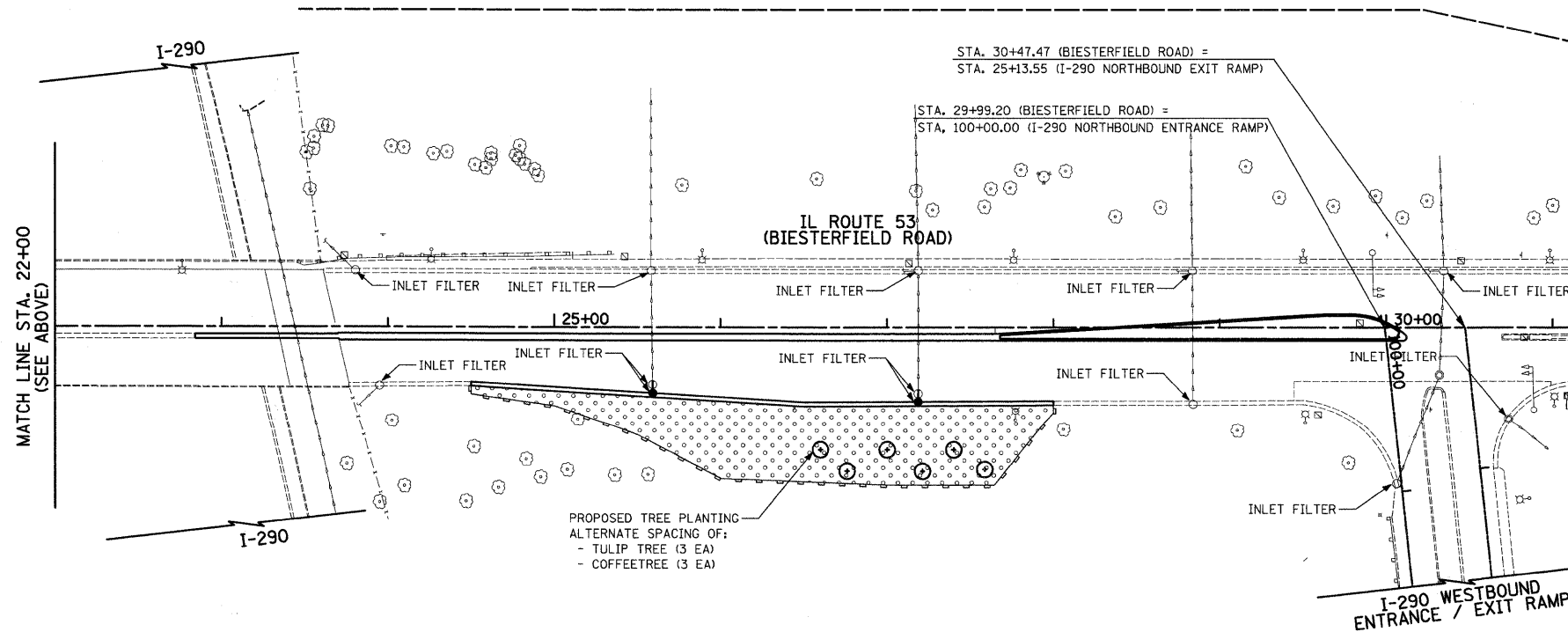
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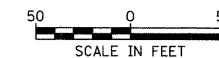
**NOTES:**

1. PLACE TREES A MINIMUM OF 30' FROM EDGE OF PAVEMENT. FINAL LOCATION OF TREES TO BE DETERMINED BY THE ENGINEER.



**LEGEND**

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- EXISTING TREE TO REMAIN
- SEDIMENT CONTROL, SILT FENCE
- PROPOSED TREE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

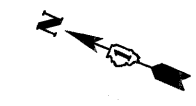
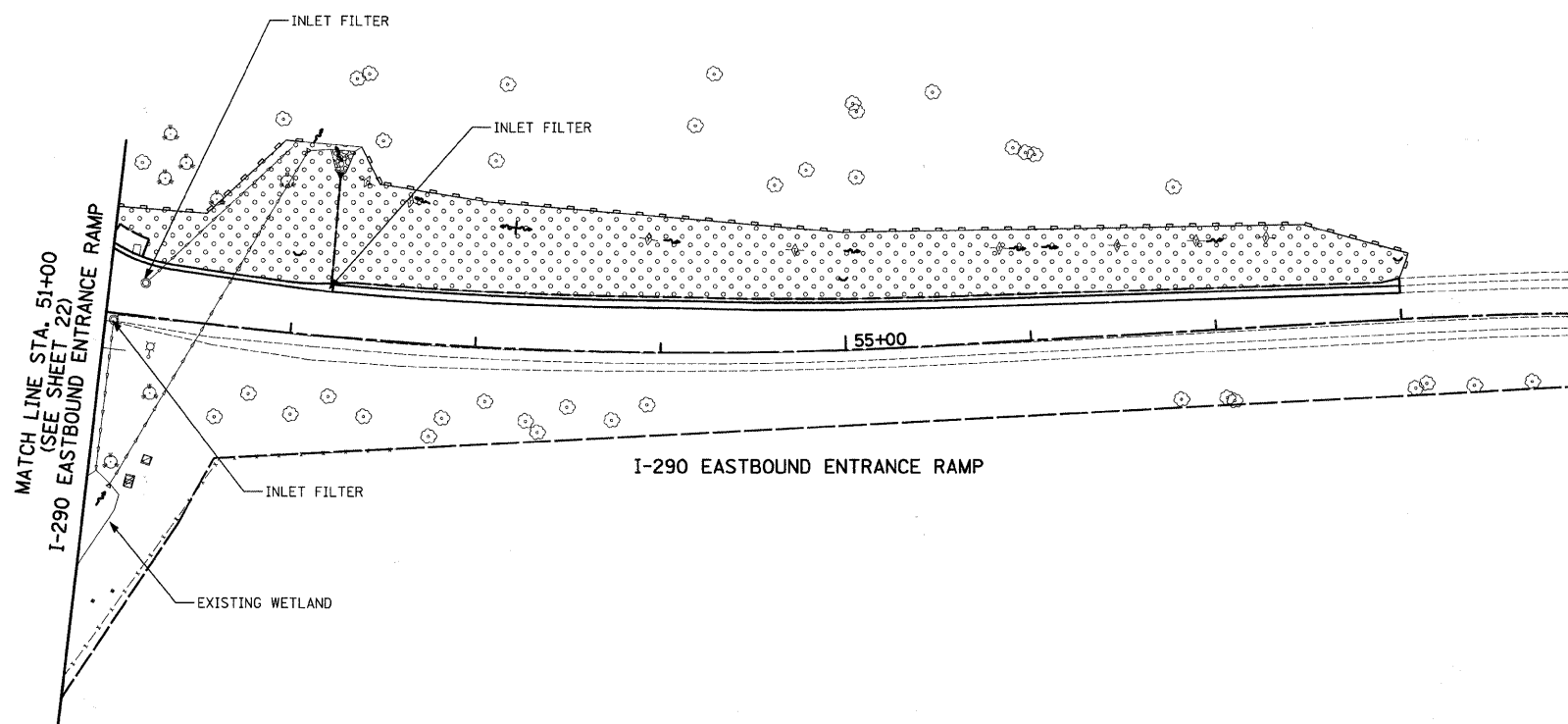
**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
EROSION CONTROL AND LANDSCAPING PLAN**

SHEET NO. 1 OF 2 SHEETS






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CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT ARA-M-9003(569)				

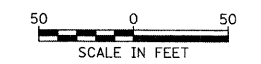
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	STRUCTURE NOTATIONS CHECKED		



**LEGEND**

-  TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
-  EXISTING TREE TO REMAIN
-  SEDIMENT CONTROL, SILT FENCE
-  TEMPORARY DITCH CHECKS
-  PROPOSED TREE



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		PLOT DATE = 7/7/2010	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

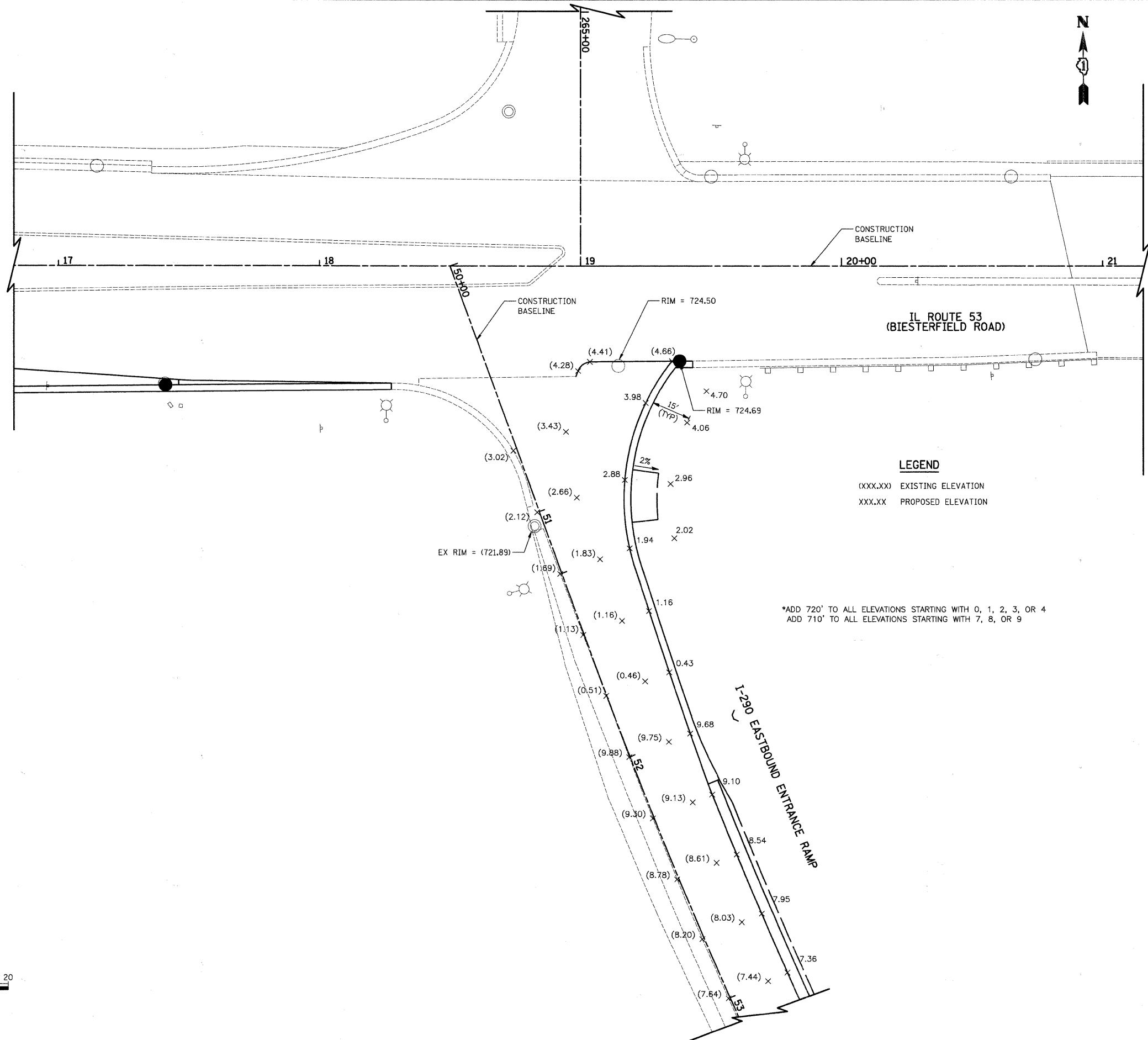
**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
EROSION CONTROL AND LANDSCAPING PLAN**

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1339	09-00054-00-CH	COOK	88	23
<b>CONTRACT NO. 63505</b>				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT ARA-M-9003(569)				

SHEET NO. 2 OF 2 SHEETS

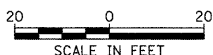
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**LEGEND**  
 (XXX.XX) EXISTING ELEVATION  
 XXX.XX PROPOSED ELEVATION

\*ADD 720' TO ALL ELEVATIONS STARTING WITH 0, 1, 2, 3, OR 4  
 ADD 710' TO ALL ELEVATIONS STARTING WITH 7, 8, OR 9



IL ROUTE 53  
(BIESTERFIELD ROAD)

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
 INTERSECTION GRADING PLAN

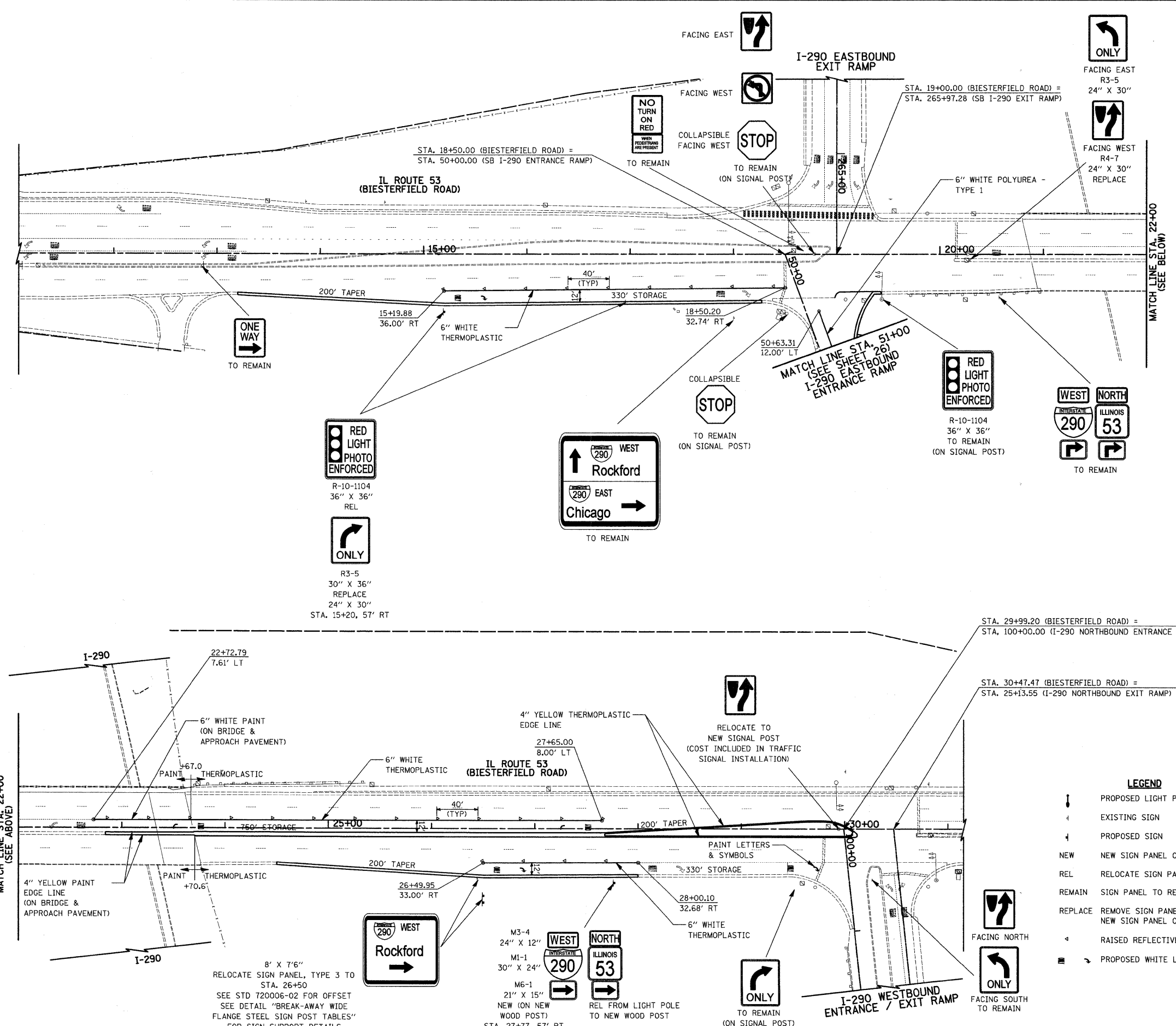
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CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(669)				



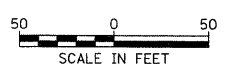
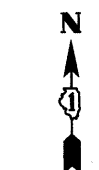
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	DATE		



**LEGEND**

⋮	PROPOSED LIGHT POLE
⋮	EXISTING SIGN
⋮	PROPOSED SIGN
NEW	NEW SIGN PANEL OF THE TYPE REQUIRED
REL	RELOCATE SIGN PANEL ASSEMBLY, TYPE A OR B
REMAIN	SIGN PANEL TO REMAIN IN SAME LOCATION
REPLACE	REMOVE SIGN PANEL ASSEMBLY, TYPE A OR B NEW SIGN PANEL OF THE TYPE REQUIRED
◁	RAISED REFLECTIVE PAVEMENT MARKER, ONE WAY CRYSTAL
■	PROPOSED WHITE LETTERS AND SYMBOLS



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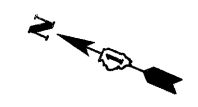
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
SIGNING AND STRIPING PLAN**

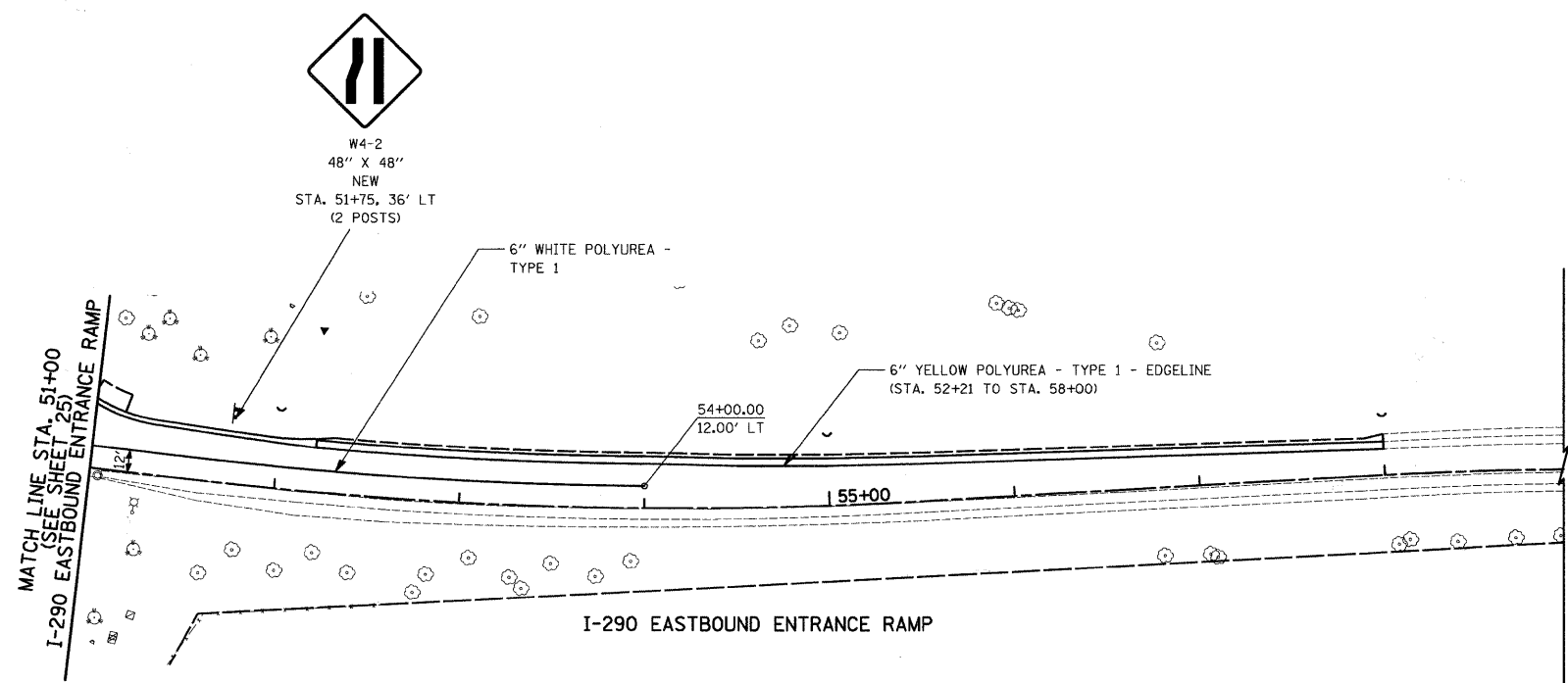
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 63505
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT ARA-M-90031691				



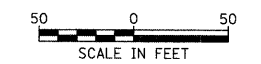
**LEGEND**

- ⋮ PROPOSED LIGHT POLE
- ⋮ EXISTING SIGN
- ⋮ PROPOSED SIGN
- PROPOSED SIGNAL POST
- NEW NEW SIGN PANEL OF THE TYPE REQUIRED
- REL RELOCATE SIGN PANEL ASSEMBLY, TYPE A OR B
- REMAIN SIGN PANEL TO REMAIN IN SAME LOCATION



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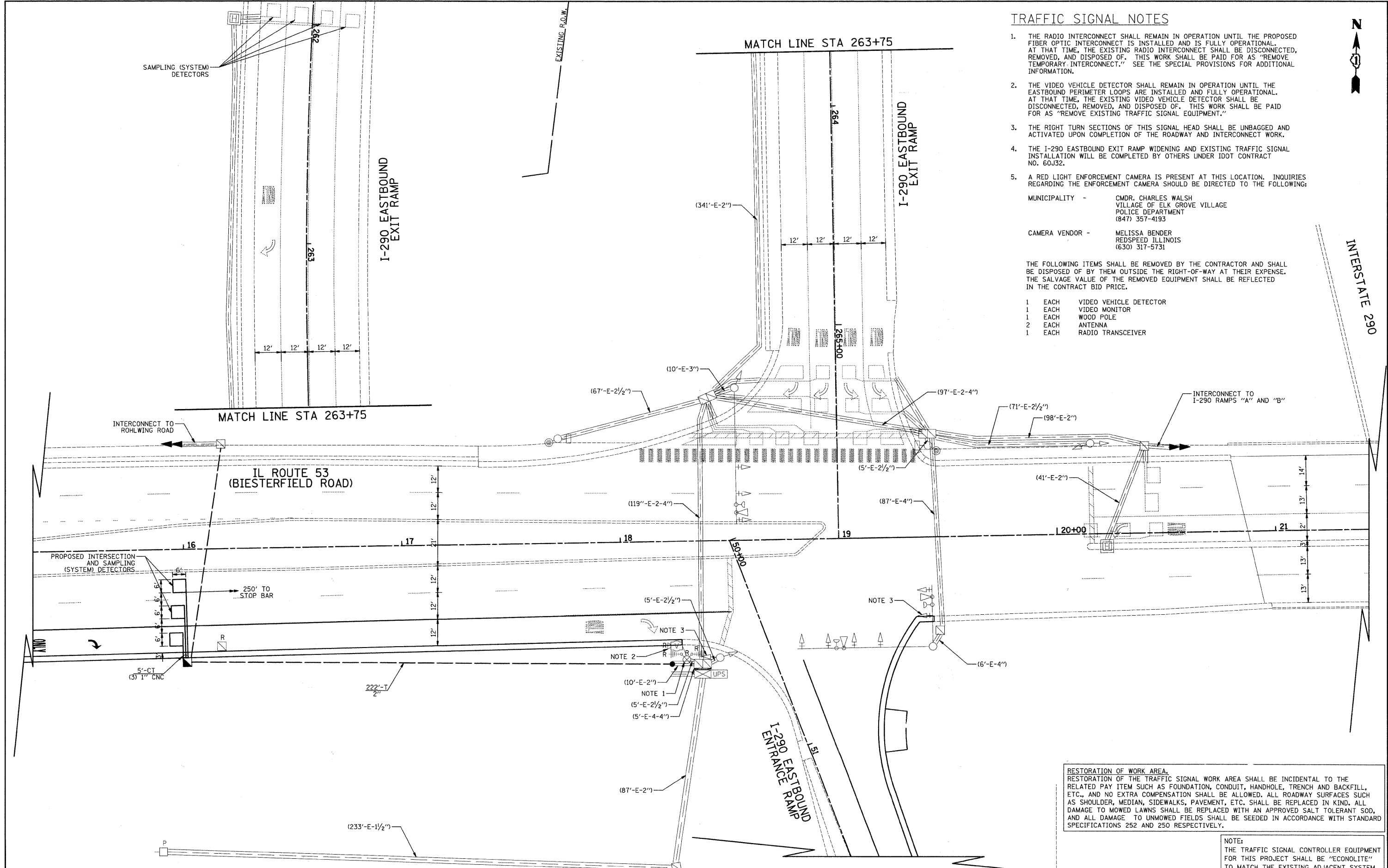
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	PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-90031569					

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	STRUCTURE NOTATIONS	
	NO.	



**TRAFFIC SIGNAL NOTES**

1. THE RADIO INTERCONNECT SHALL REMAIN IN OPERATION UNTIL THE PROPOSED FIBER OPTIC INTERCONNECT IS INSTALLED AND IS FULLY OPERATIONAL. AT THAT TIME, THE EXISTING RADIO INTERCONNECT SHALL BE DISCONNECTED, REMOVED, AND DISPOSED OF. THIS WORK SHALL BE PAID FOR AS "REMOVE TEMPORARY INTERCONNECT." SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. THE VIDEO VEHICLE DETECTOR SHALL REMAIN IN OPERATION UNTIL THE EASTBOUND PERIMETER LOOPS ARE INSTALLED AND FULLY OPERATIONAL. AT THAT TIME, THE EXISTING VIDEO VEHICLE DETECTOR SHALL BE DISCONNECTED, REMOVED, AND DISPOSED OF. THIS WORK SHALL BE PAID FOR AS "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT."
3. THE RIGHT TURN SECTIONS OF THIS SIGNAL HEAD SHALL BE UNBAGGED AND ACTIVATED UPON COMPLETION OF THE ROADWAY AND INTERCONNECT WORK.
4. THE I-290 EASTBOUND EXIT RAMP WIDENING AND EXISTING TRAFFIC SIGNAL INSTALLATION WILL BE COMPLETED BY OTHERS UNDER IDOT CONTRACT NO. 60J32.
5. A RED LIGHT ENFORCEMENT CAMERA IS PRESENT AT THIS LOCATION. INQUIRIES REGARDING THE ENFORCEMENT CAMERA SHOULD BE DIRECTED TO THE FOLLOWING:

MUNICIPALITY - CMDR. CHARLES WALSH  
VILLAGE OF ELK GROVE VILLAGE  
POLICE DEPARTMENT  
(847) 357-4193

CAMERA VENDOR - MELISSA BENDER  
REDSPEED ILLINOIS  
(630) 317-5731

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH VIDEO VEHICLE DETECTOR
- 1 EACH VIDEO MONITOR
- 1 EACH WOOD POLE
- 2 EACH ANTENNA
- 1 EACH RADIO TRANSCIVER

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 SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED 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.

FILE NAME =	USER NAME = djk	DESIGNED - BRD	REVISED -
...Signal Modification Plan_SB Ramps.dgn		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 07-07-10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
IL ROUTE 53 (BIESTERFIELD ROAD) AT I-290 EASTBOUND RAMPS**

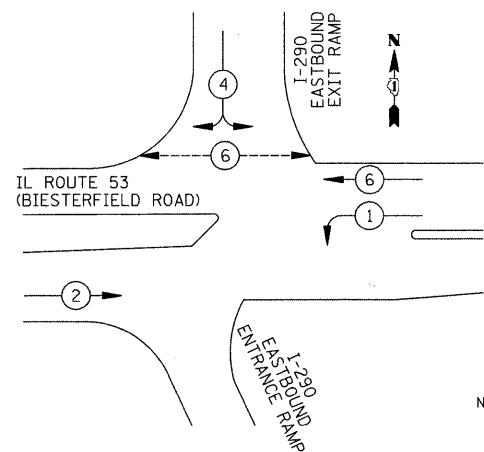
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				

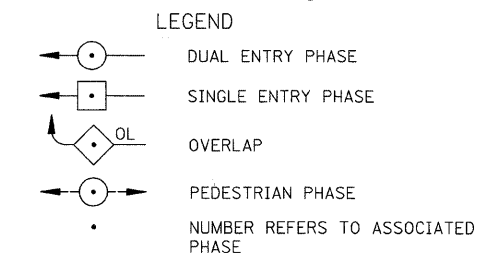
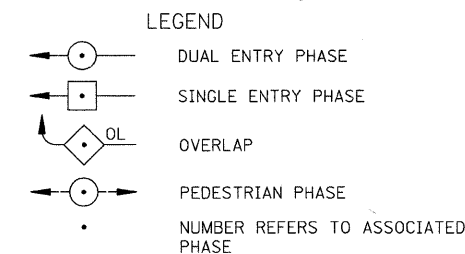
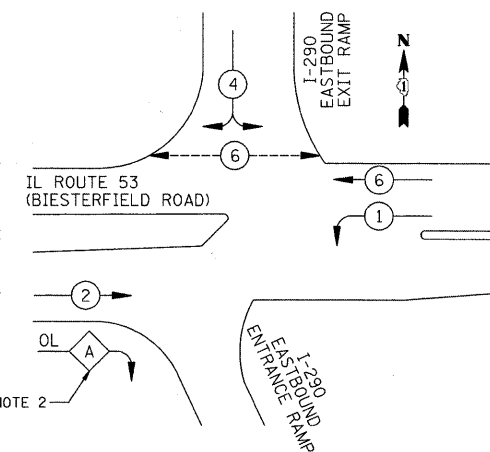
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 PROFILE NO.: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**EXISTING CONTROLLER SEQUENCE**



**PROPOSED CONTROLLER SEQUENCE**



**EXISTING PHASE DESIGNATION DIAGRAM**

**PROPOSED PHASE DESIGNATION DIAGRAM**

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 4

- NOTES:**
1. THE RIGHT TURN SECTION OF THIS SIGNAL HEAD SHALL BE UNBAGGED AND ACTIVATED UPON COMPLETION OF THE ROADWAY AND INTERCONNECT WORK.
  2. RIGHT TURN OVERLAP "A" SHALL NOT BE ACTIVATED UNTIL THE RIGHT TURN SECTIONS OF THE EASTBOUND SIGNAL HEADS ARE ACTIVATED.

**SCHEDULE OF QUANTITIES**

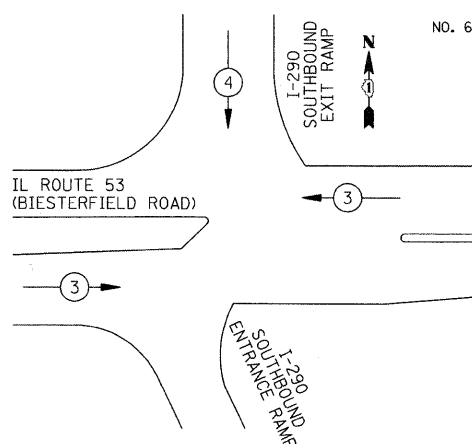
PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	222
CONDUIT SPLICE	EACH	1
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	222
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	783
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE 1	FOOT	117
MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	73
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1

**I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	8		12	0.10	10
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					420

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 CONTACT: ELLIE SARALLO  
 PHONE: (630) 424-5124  
 COMPANY: COM ED

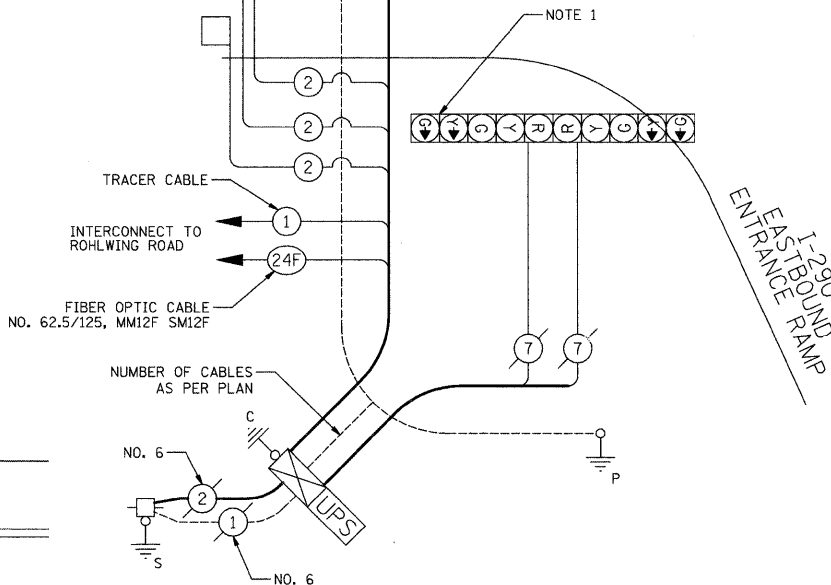
**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



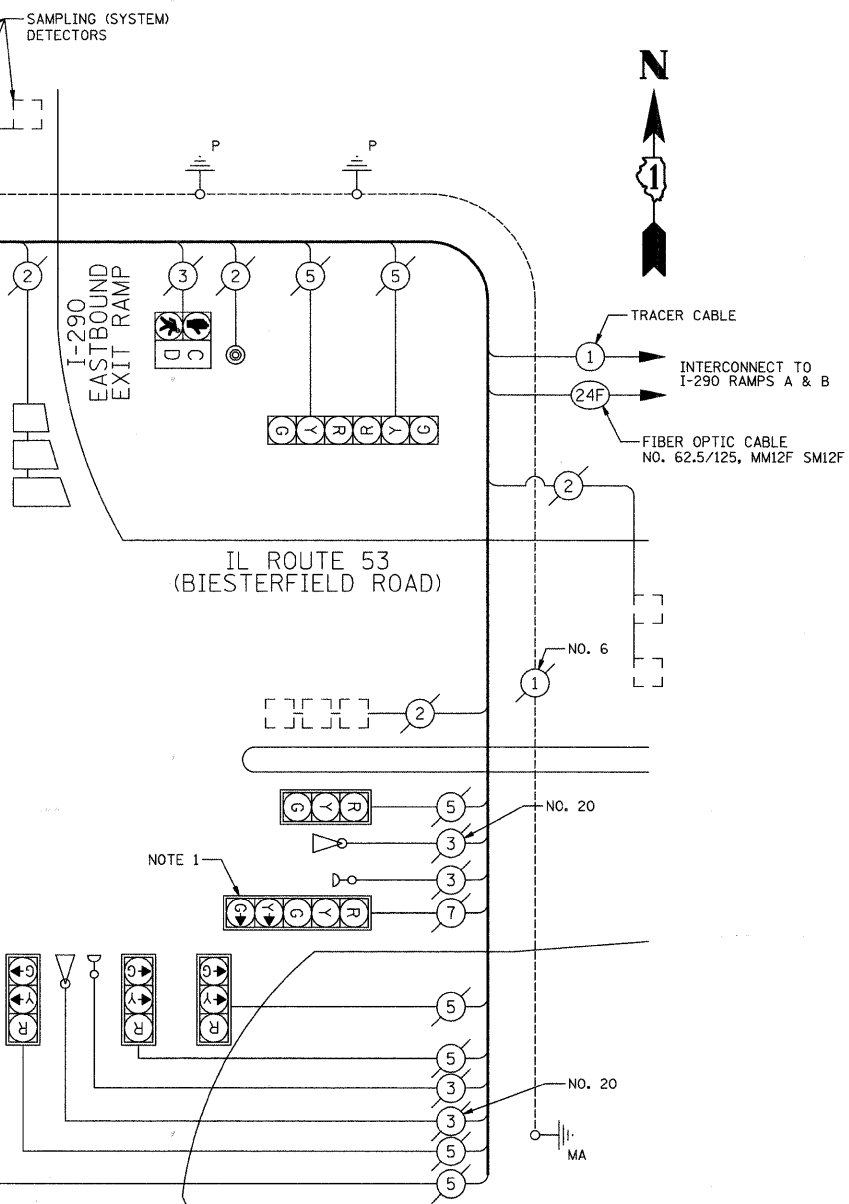
**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS**

EMERGENCY VEHICLE PREEMPTOR	EXISTING	PROPOSED
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



**CABLE PLAN**  
NOT TO SCALE



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

FILE NAME =	USER NAME = djk	DESIGNED - BRD	REVISED -
...sheet\SIGNALS\Cable Plan.dgn		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 07-07-10	REVISED -

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

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES**  
**IL ROUTE 53 (BIESTERFIELD ROAD) AT I-290 EASTBOUND RAMPS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	28

CONTRACT NO. 63505

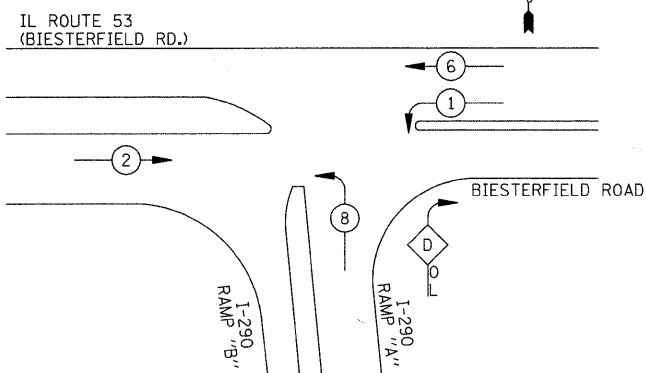
NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)



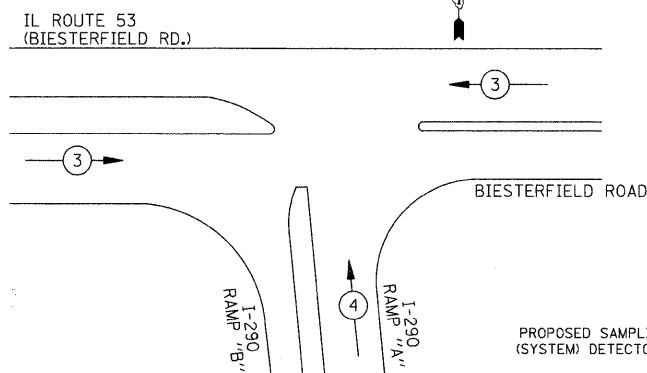
DATE	
BY	
REVISIONS	
PLAN	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
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DATE	
BY	
REVISIONS	
PROFILE	
NOTE BOOK	
NO.	
NO.	
NO.	
NO.	
NO.	

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

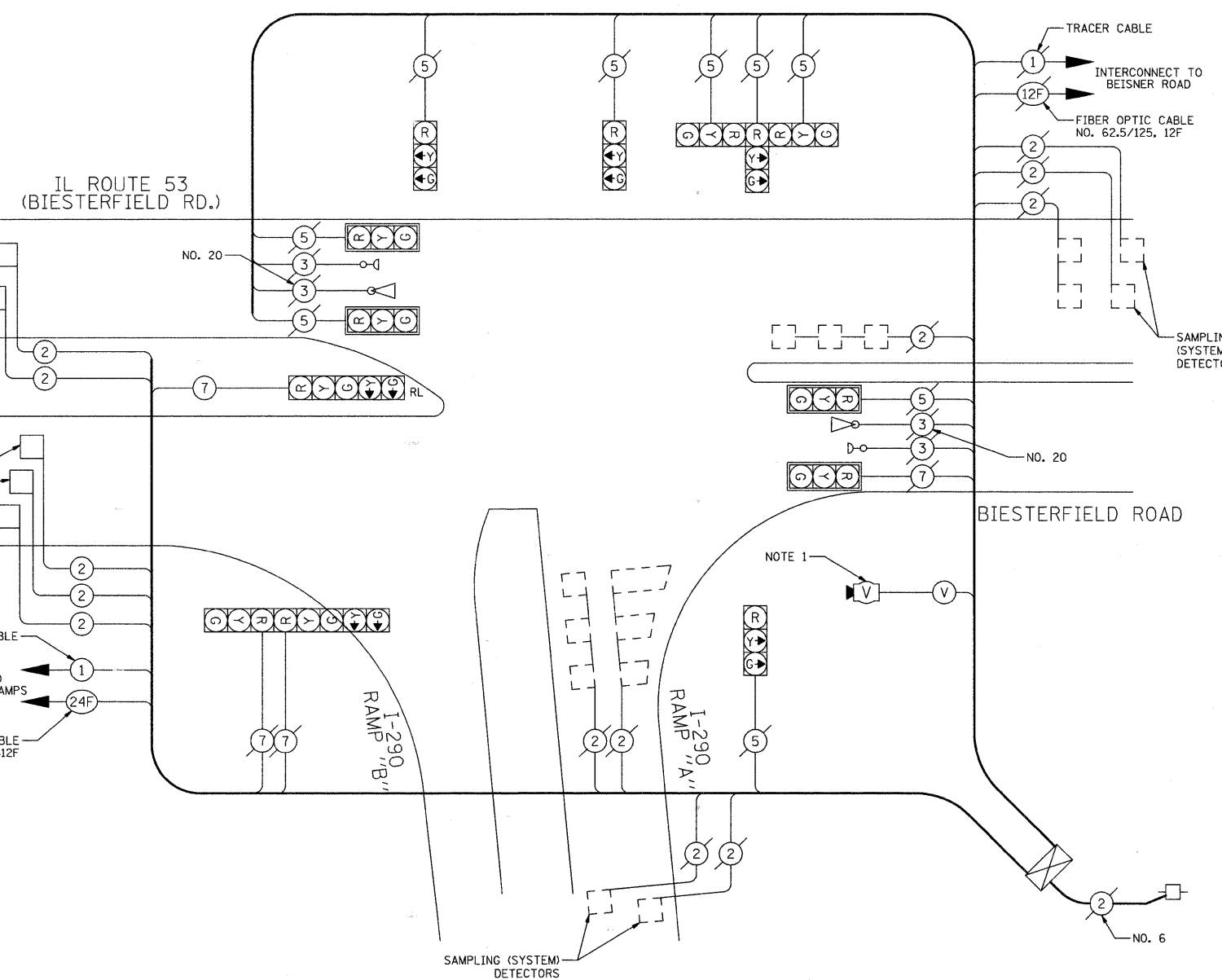
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	8	1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

PROPOSED SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TRACER CABLE  
INTERCONNECT TO I-290 SOUTHBOUND RAMPS  
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F



CABLE PLAN  
NOT TO SCALE

NOTES:

- A TEMPORARY VIDEO VEHICLE DETECTOR SHALL BE USED TO PROVIDE TEMPORARY EASTBOUND VEHICLE DETECTION UPON THE REMOVAL OF THE EXISTING EASTBOUND DETECTOR LOOPS. FOLLOWING THE INSTALLATION AND ACTIVATION OF THE PROPOSED EASTBOUND DETECTOR LOOPS, THE TEMPORARY VIDEO VEHICLE DETECTOR SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS "TEMPORARY VIDEO DETECTION."

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
SIGNAL (RED)	13	135	0.50		878
	(YELLOW)	13	135	0.25	439
	(GREEN)	13	135	0.25	439
ARROW	4	135	0.10		54
PED. SIGNAL		90	1.00		
CONTROLLER	1	100	1.00		100
FLASHER				0.50	
TOTAL =					1910

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096  
CONTACT: ELLIE SARALLO  
PHONE: (630) 424-5124  
COMPANY: COM ED

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	230
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	5
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	56
HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	230
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	267
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1742
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE 1	FOOT	186
RELOCATE EXISTING SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	908
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	1
TEMPORARY VIDEO DETECTION	L SUM	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 53 (BIESTERFIELD ROAD) AT I-290 "A" AND "B" RAMPS

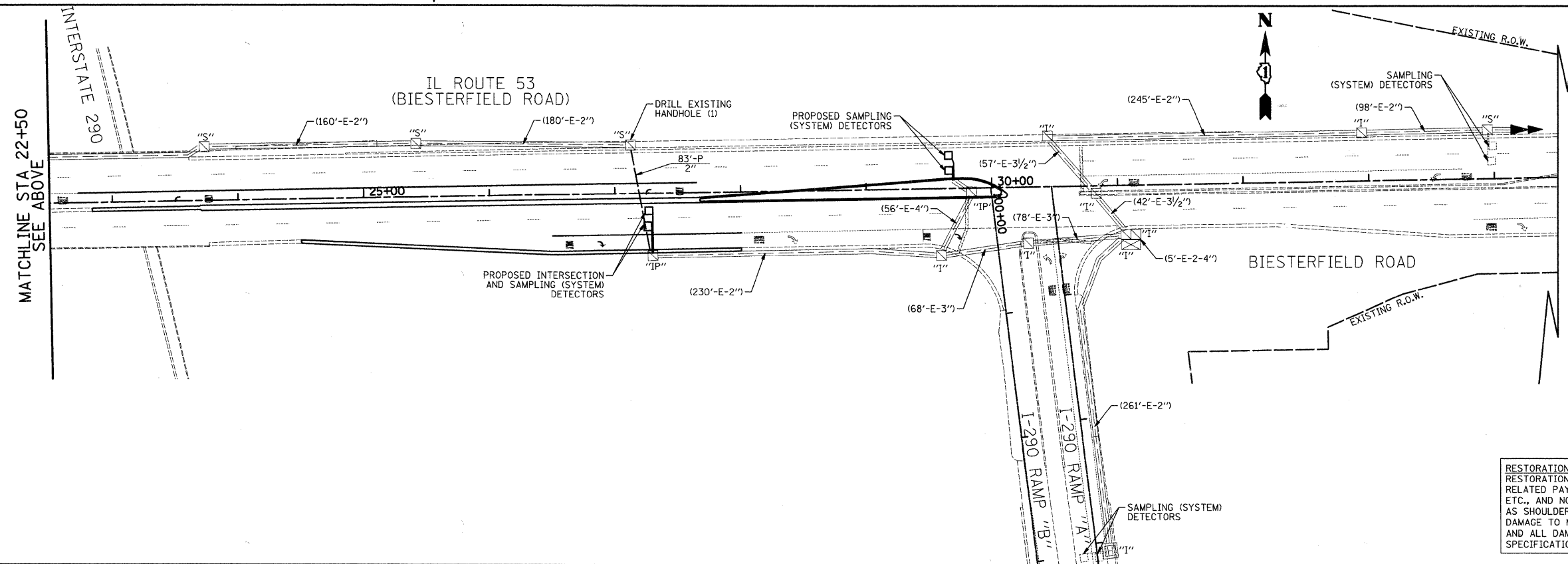
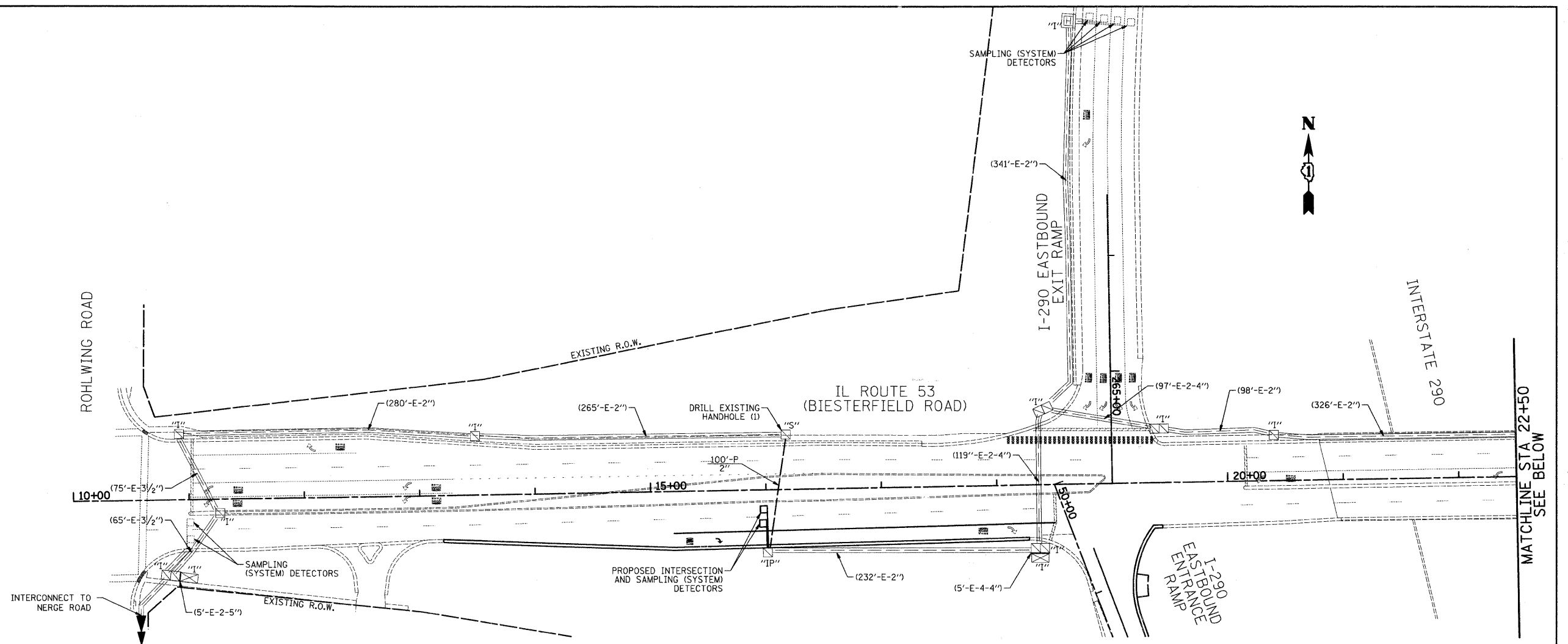
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	30
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-900315691				

FILE NAME =	USER NAME = djk	DESIGNED - BRD	REVISED -
...Cable Plan_Ramps A+B.dgn		DRAWN - OJT	REVISED -
PLOT SCALE = 20,0000 "/ IN.		CHECKED - JJE	REVISED -
PLOT DATE = 7/7/2010		DATE - 07-07-10	REVISED -



PLAN	DESIGNED	DATE
NOTE BOOK NO.	CHECKED	
	PLOTTED	
	FILE NAME	

PROFILE	DESIGNED	DATE
NOTE BOOK NO.	CHECKED	
	PLOTTED	
	NOTATION CHKD	



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

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 SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME =  
...\\Signels\Interconnect\_1.dgn

USER NAME = cjk	DESIGNED - BRD	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - JJE	REVISED -
PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 53 (BIESTERFIELD ROAD)  
ROHLWING ROAD TO I-290 RAMPS "A" AND "B"**

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

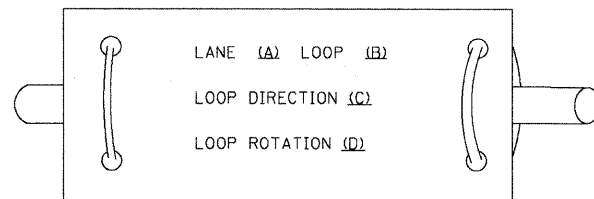
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	31
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				



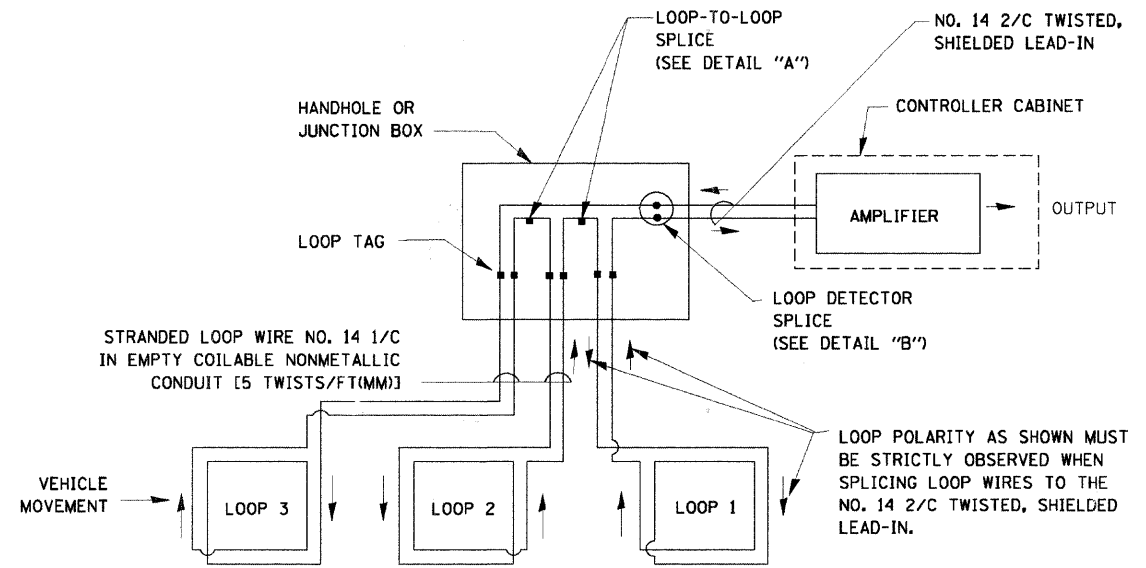
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

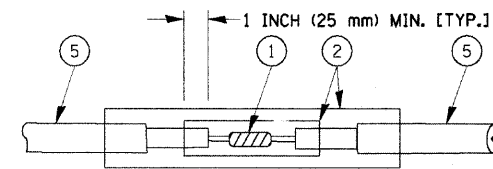


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

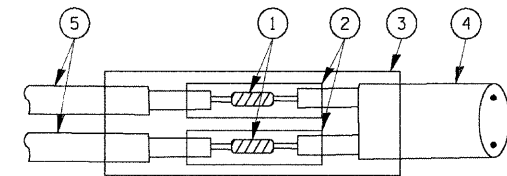


**DETECTOR LOOP WIRING SCHEMATIC**

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

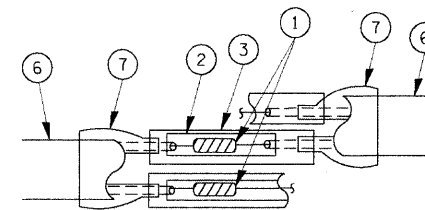


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

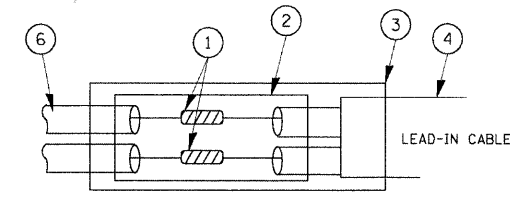


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



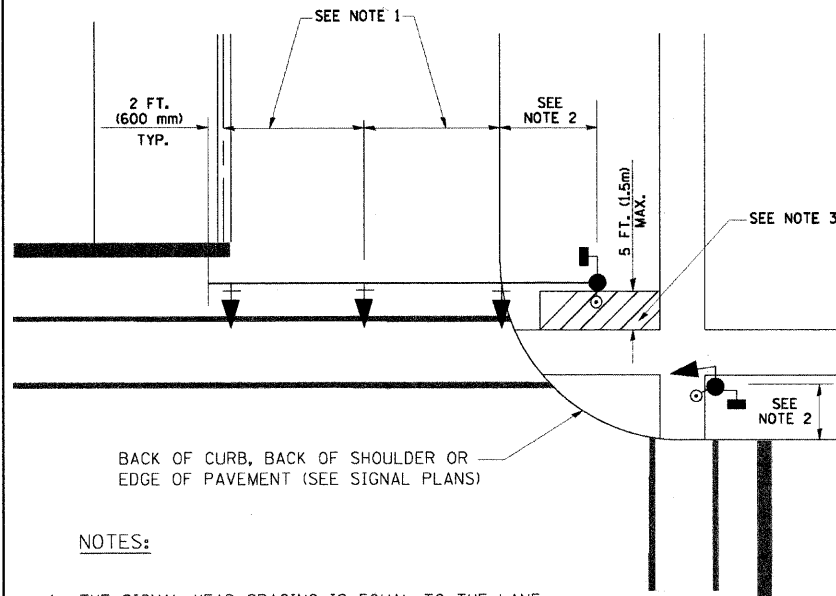
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

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

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

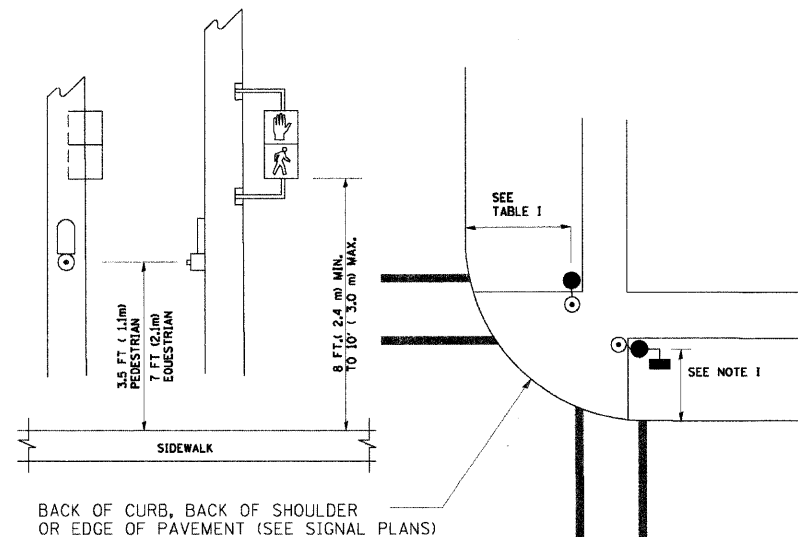
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**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."

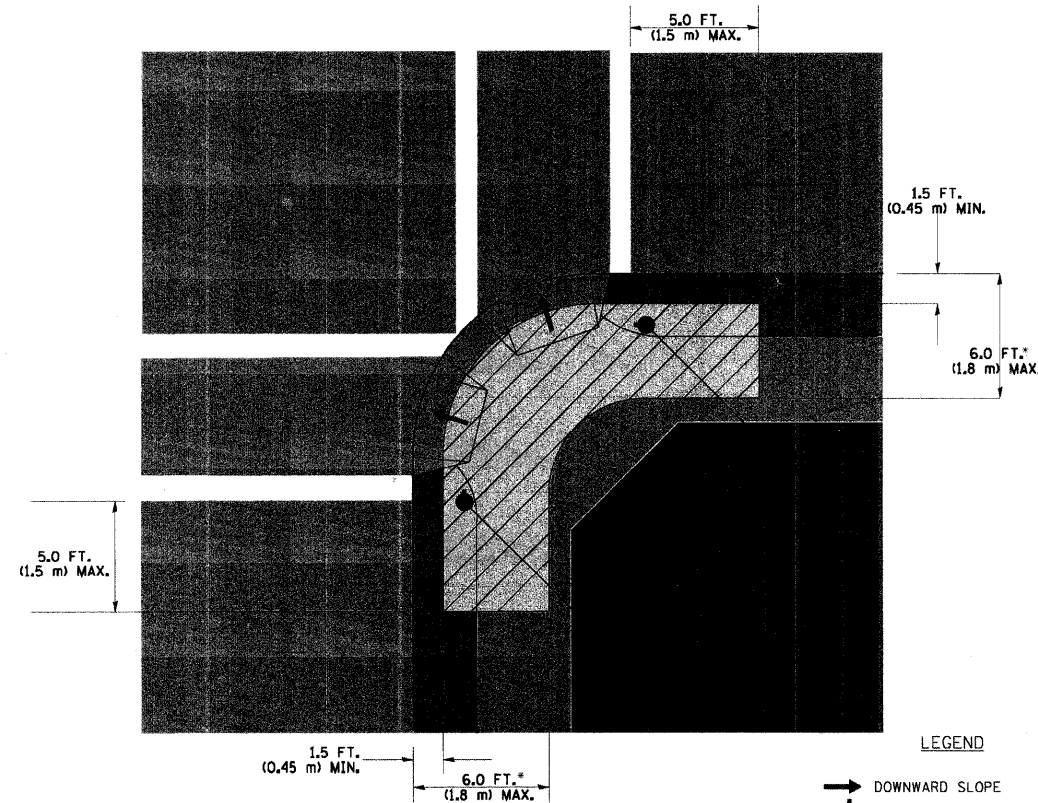
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**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**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 5 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.

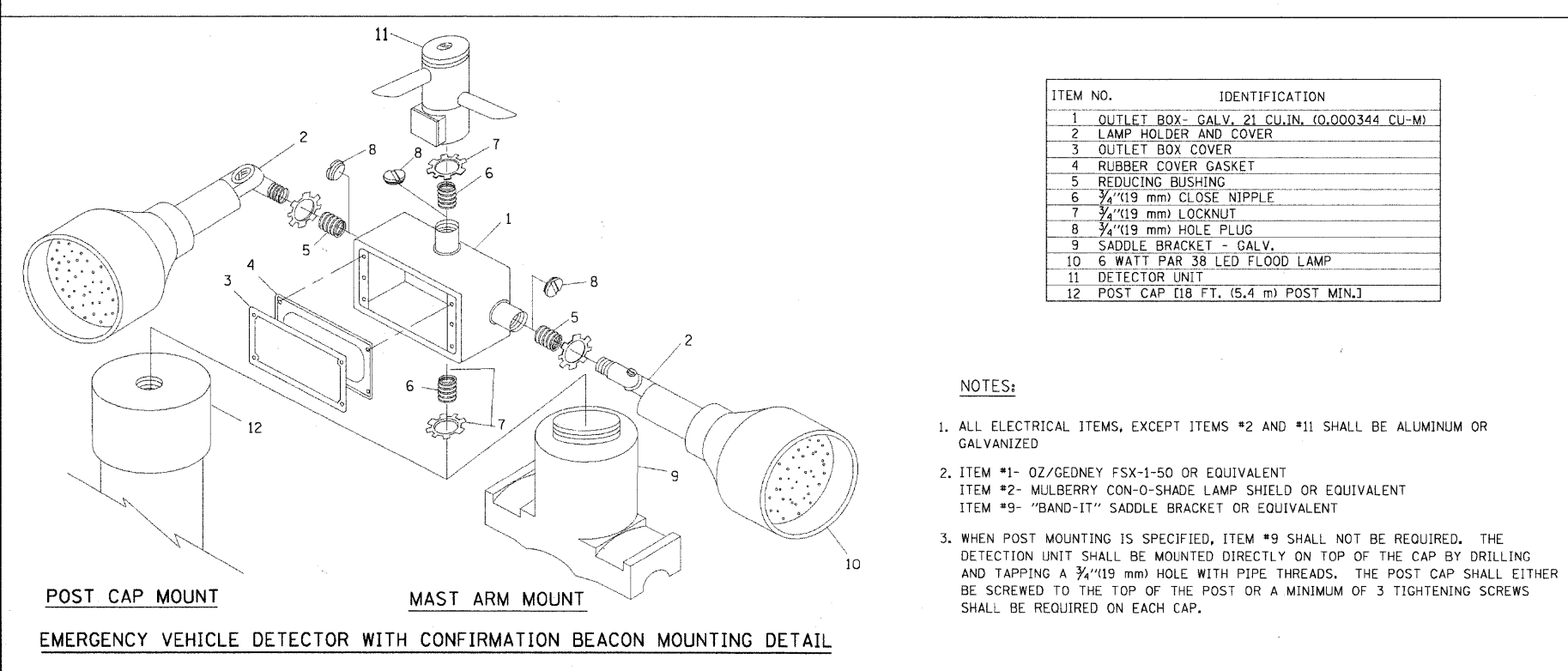
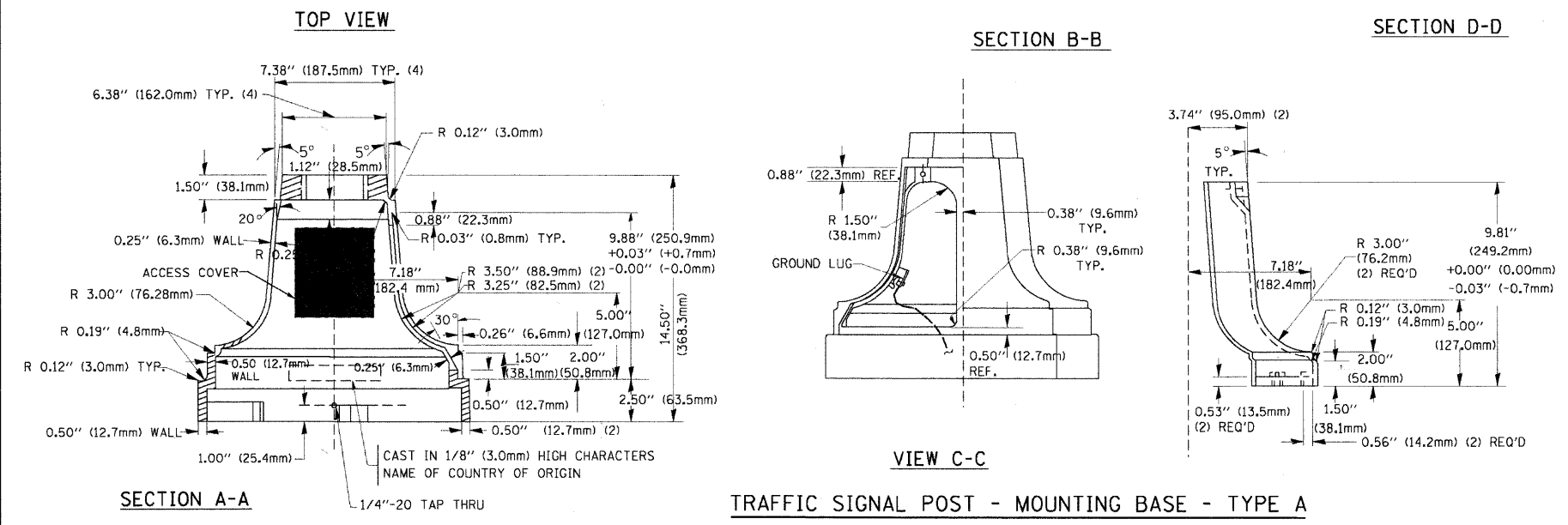
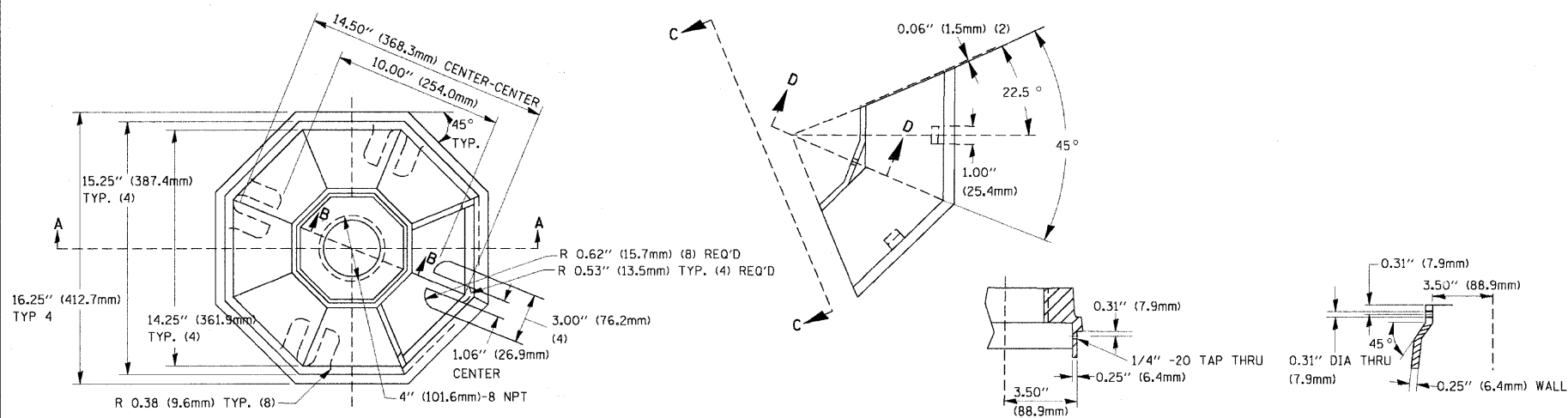
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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.

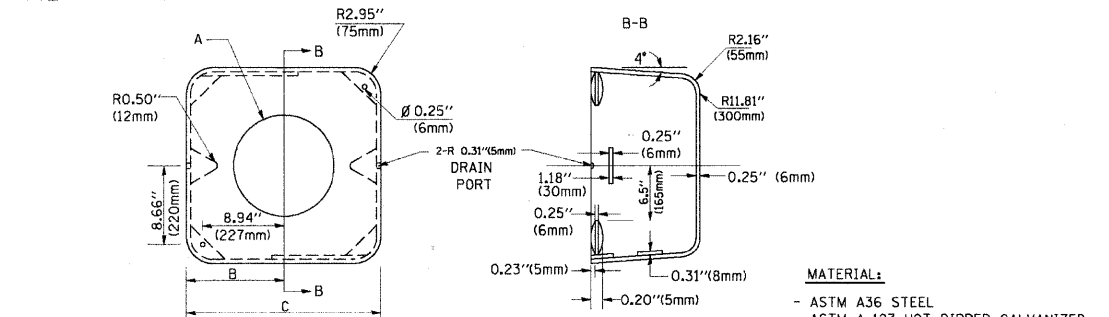
**NOTES:**

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.





FILE NAME	USER NAME	DESIGNED	REVISED
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		BCK	-
		DAD	-
		10/28/09	-

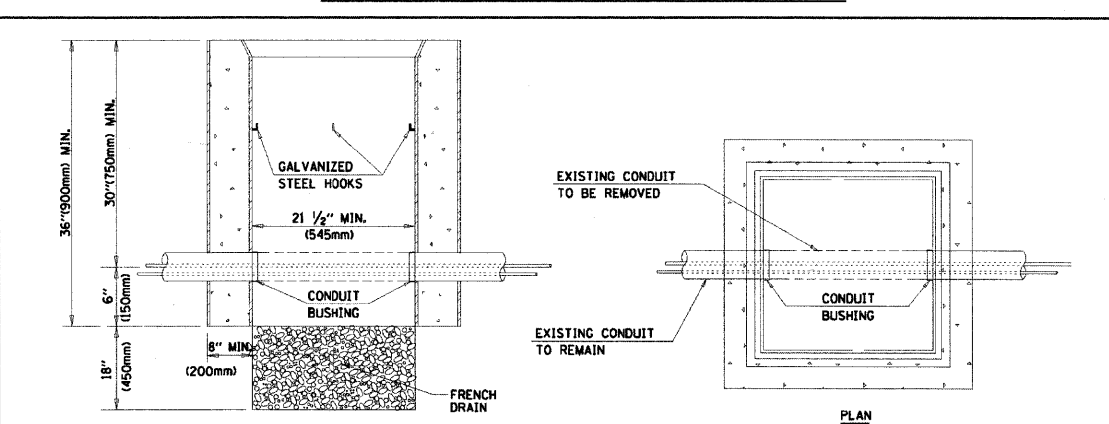
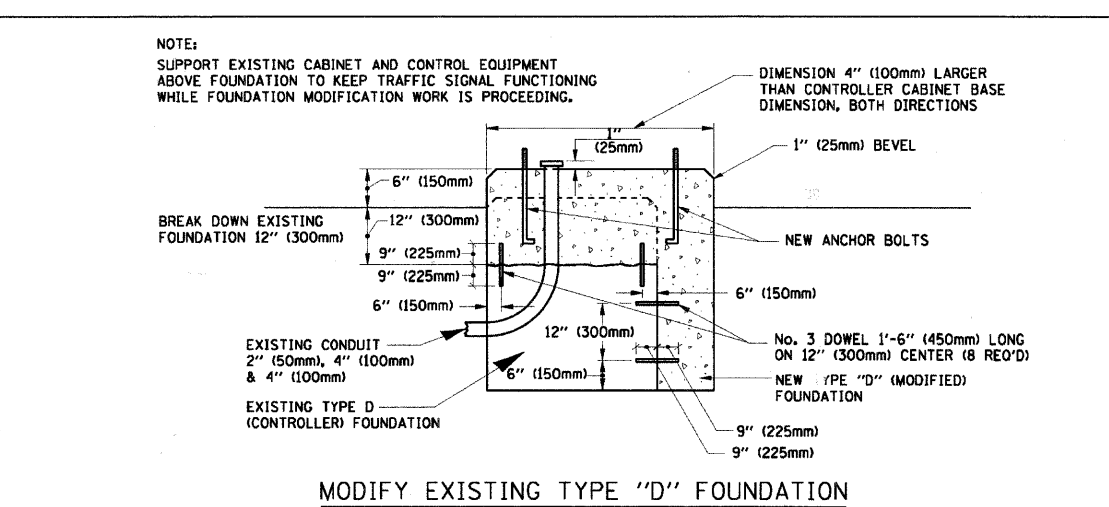


A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\"/>			

**SHROUD**

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.

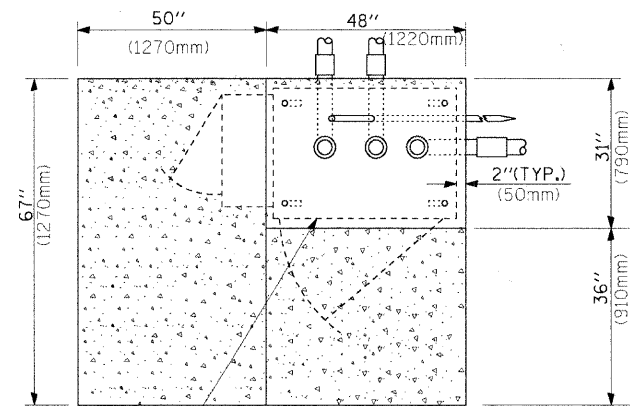


**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

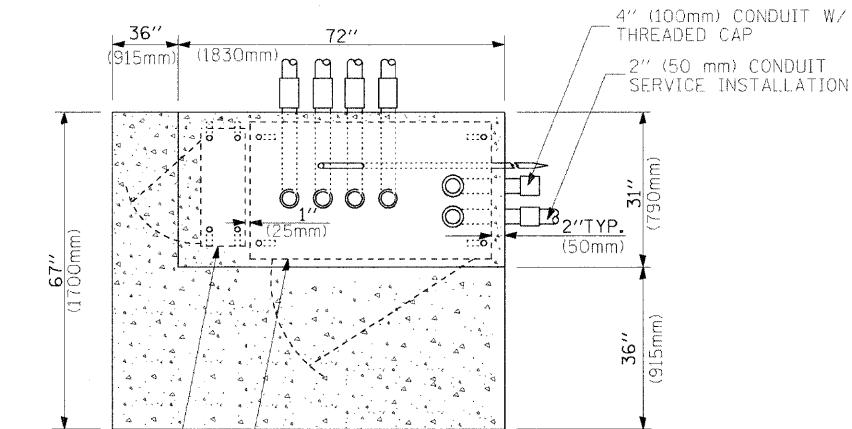
NOTES:

- 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.

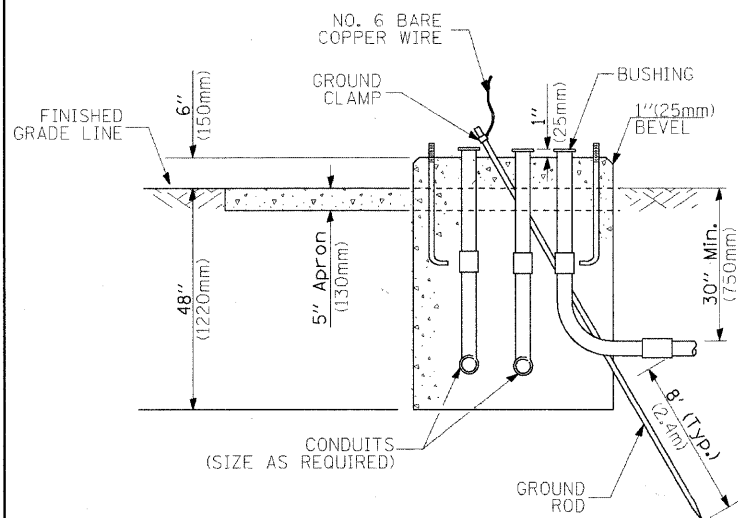




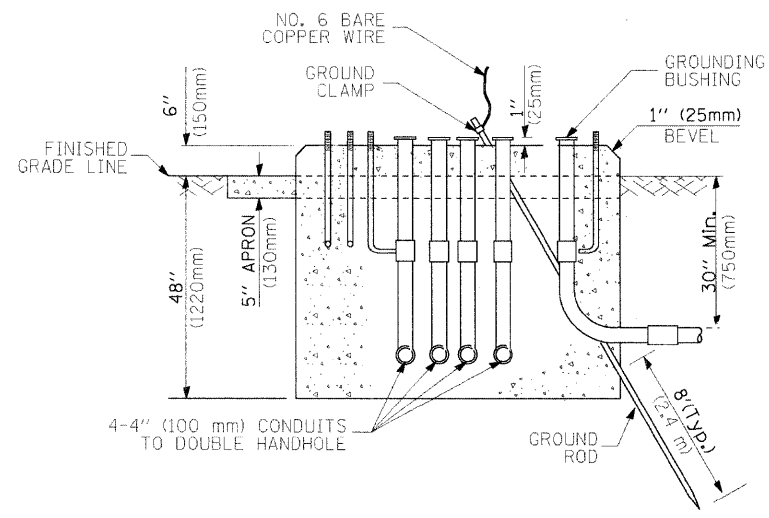
CONTROLLER CABINET BASE  
EXISTING APRON  
PROPOSED APRON  
**TOP VIEW**



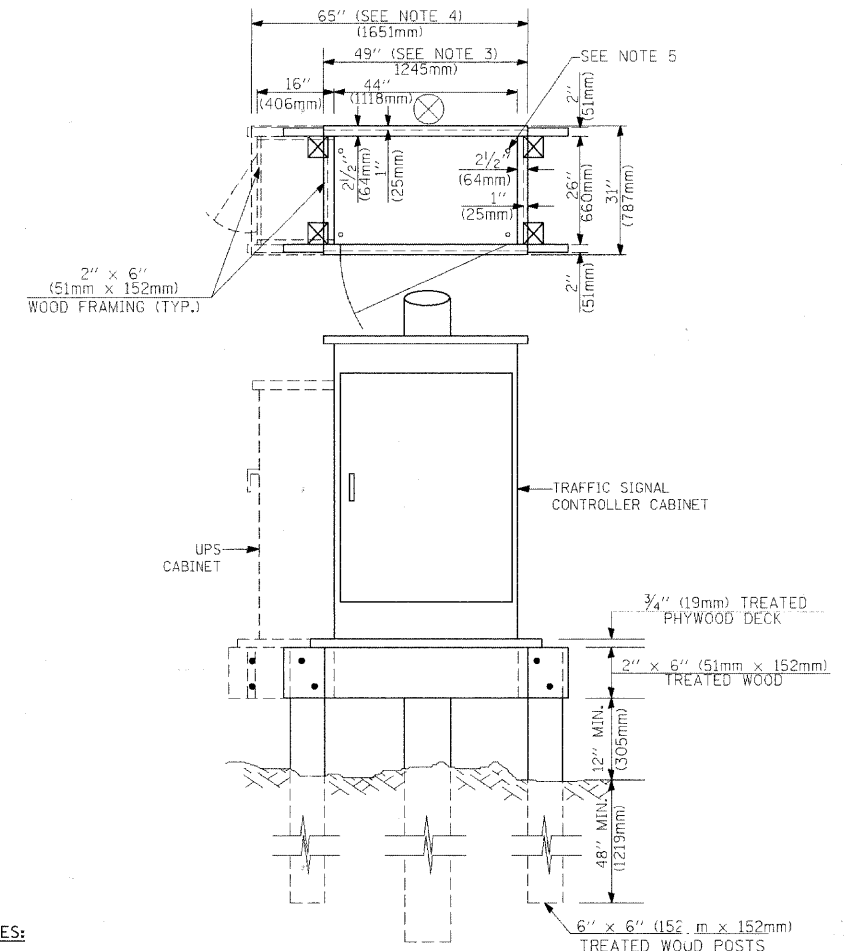
UPS CABINET BASE  
CONTROLLER CABINET BASE  
**TOP VIEW**  
APRON



**TYPE D**  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET



**TYPE C**  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET



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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

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

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

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

# 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				DOUBLF 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 5M12F			
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				GROLD 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		S		STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			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	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			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				<b>RAILROAD SYMBOLS</b>			
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											

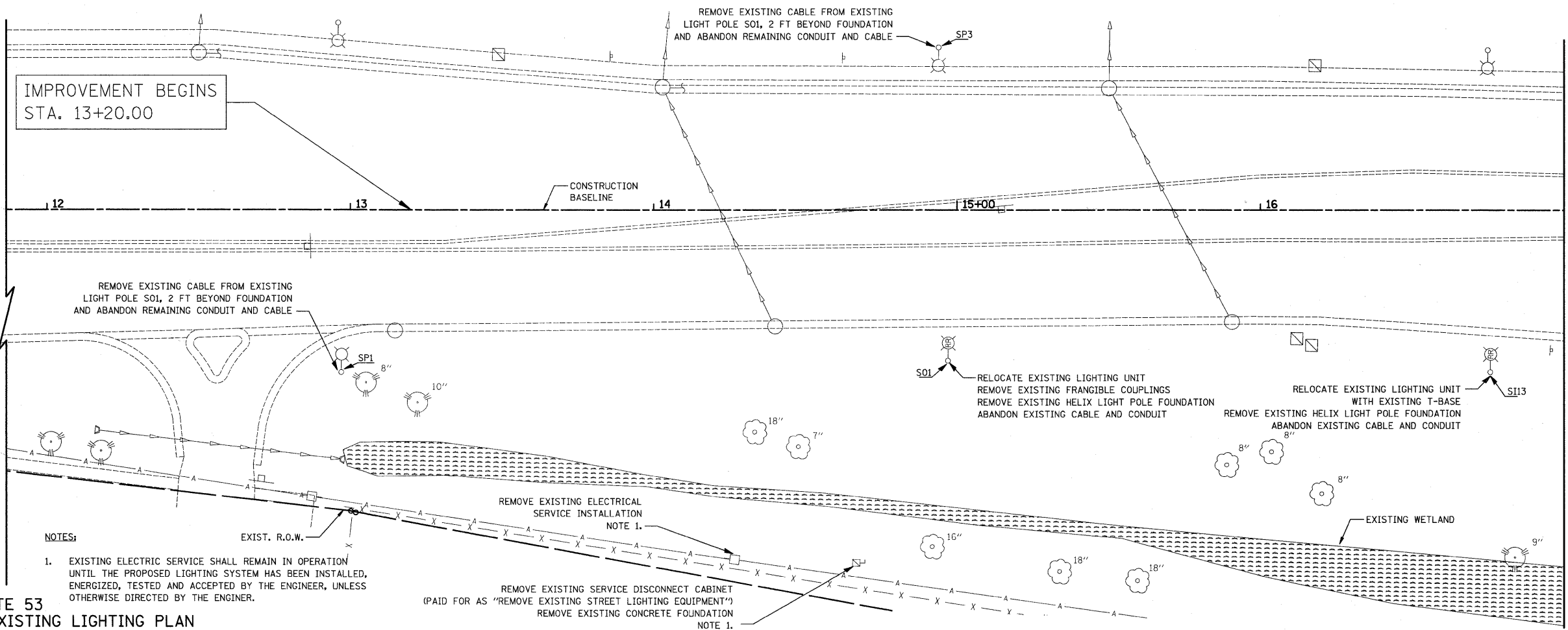
LIGHTING SCHEDULE OF QUANTITIES

ITEM NUMBER	LIGHTING ITEMS	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	587
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	210
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	60
81603203	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA. POLYETHYLENE	FOOT	1510
81701115	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 1/C NO. 2	FOOT	742
81701395	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C 500MCM	FOOT	742
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2140
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1
84200807	REMOVAL OF POLE FOUNDATION, METAL	EACH	3
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	35
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	66
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X0322708	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL. MO.	3
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1
X8250110	LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA	EACH	1
X8360360	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	3

- LEGEND:**
- EXISTING LIGHTING UNIT
  - RELOCATE EXISTING LIGHTING UNIT
  - PROPOSED RELOCATED LIGHTING UNIT
  - EXISTING LIGHTING CONTROLLER
  - PROPOSED LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA
  - EXISTING SERVICE DISCONNECT CABINET
  - PROPOSED SERVICE DISCONNECT CABINET

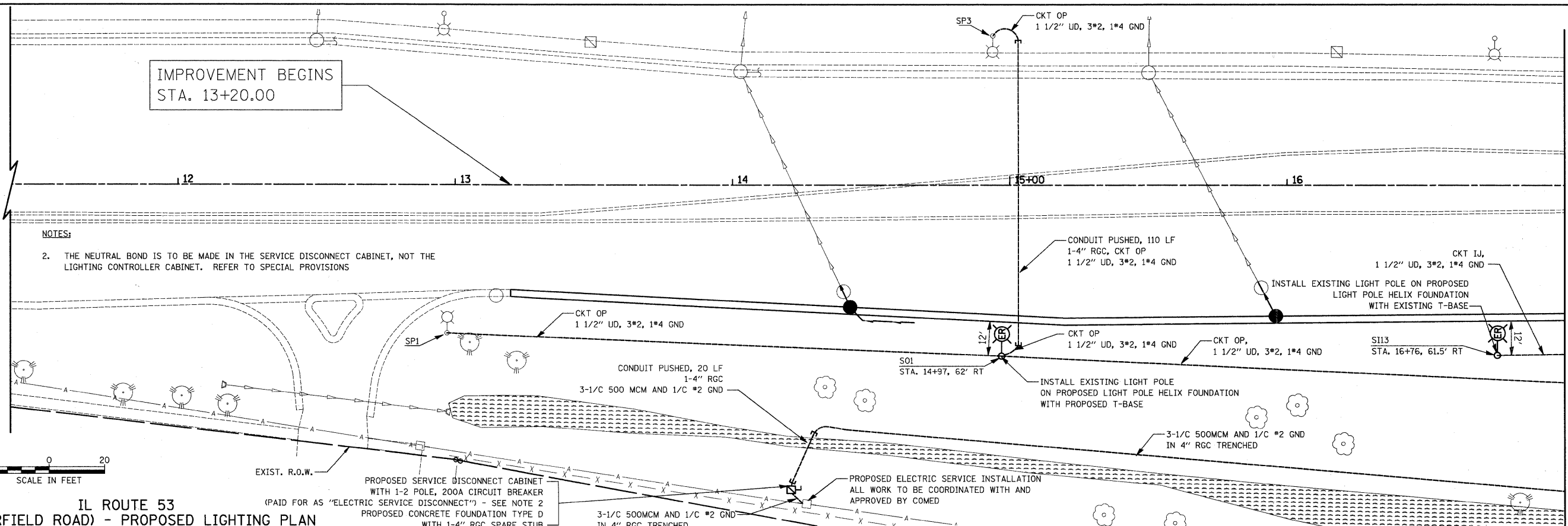
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PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	



**IL ROUTE 53 (BIESTERFIELD ROAD) - EXISTING LIGHTING PLAN**

MATCH LINE STA. 17+00 (SEE SHEET NO. 41)



**IL ROUTE 53 (BIESTERFIELD ROAD) - PROPOSED LIGHTING PLAN**

MATCH LINE STA. 17+00 (SEE SHEET NO. 41)

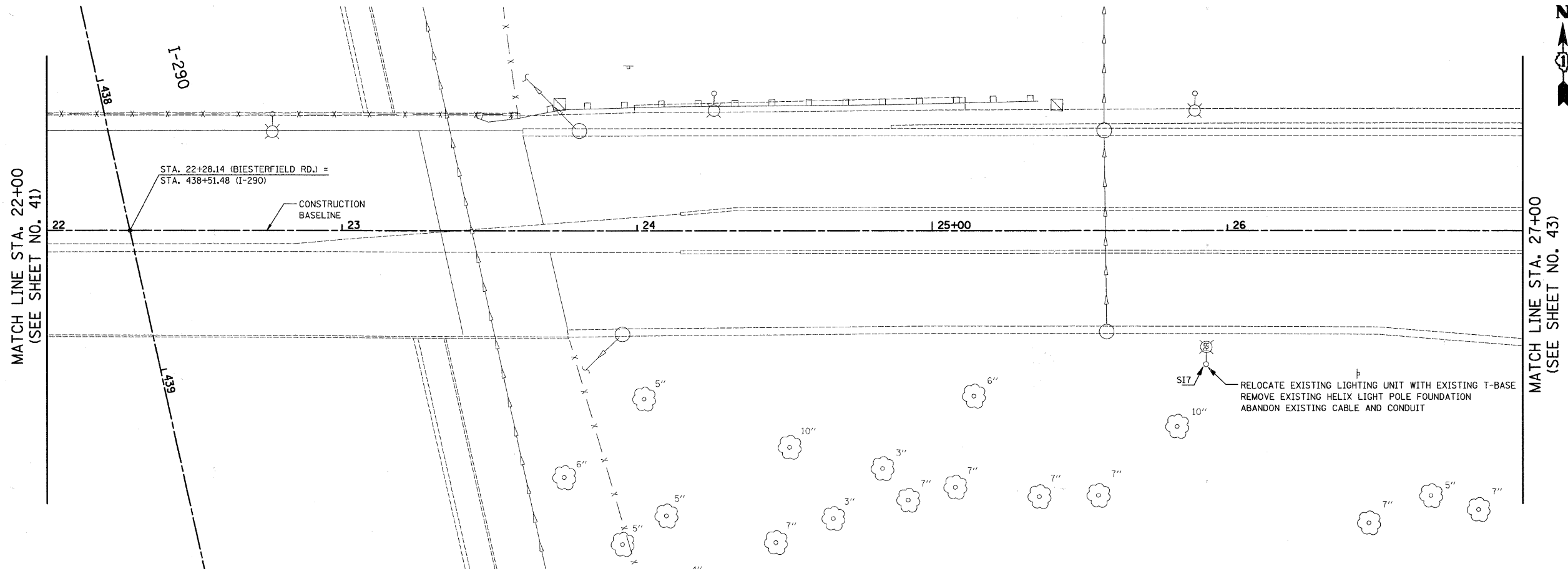
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PLOT SCALE = 20.0000' / IN.	CHECKED - DEM	DATE - 07-07-10	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 5 SHEETS	STA. 13+20.0 TO STA. 17+00.0	CONTRACT NO. 63505		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-N-9003(569)	



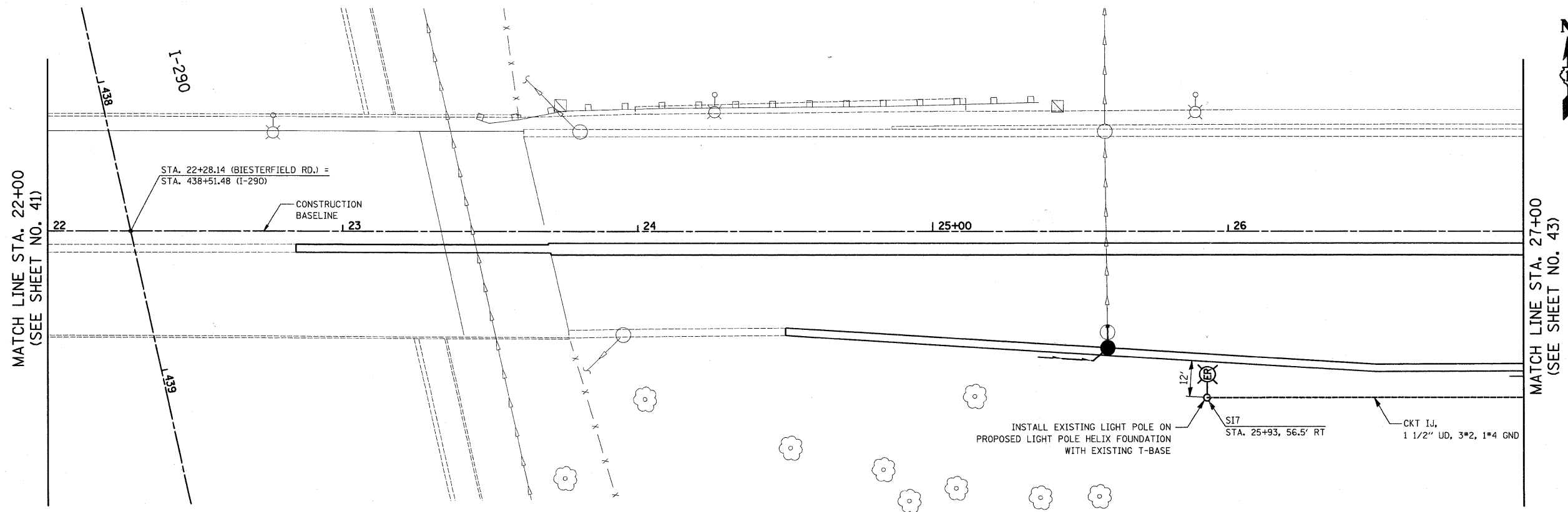
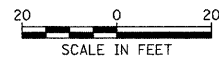
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

IL ROUTE 53  
(BIESTERFIELD ROAD)  
EXISTING LIGHTING PLAN



IL ROUTE 53  
(BIESTERFIELD ROAD)  
PROPOSED LIGHTING PLAN



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PLOT DATE = 7/7/2010

DESIGNED - EE  
DRAWN - DJK  
CHECKED - DEM  
DATE - 07-07-10

REVISED -  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
LIGHTING PLAN

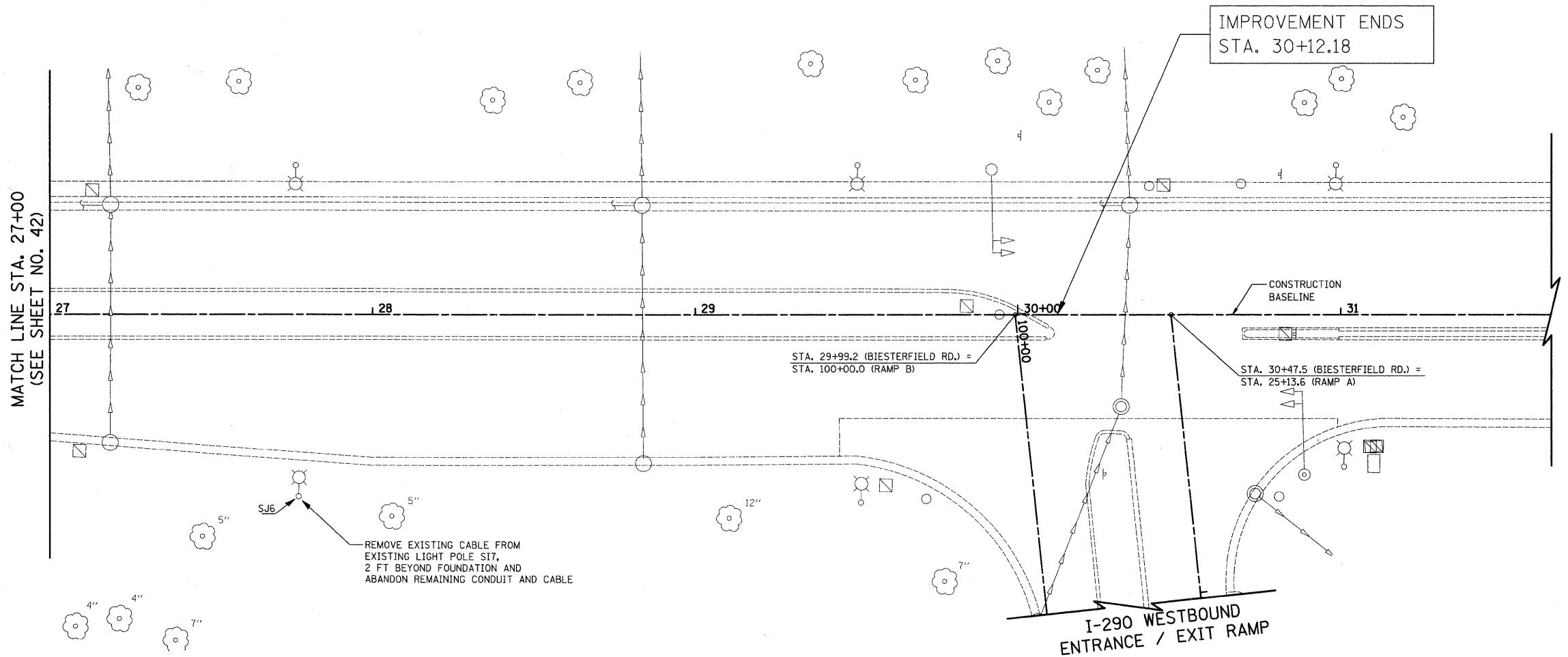
SCALE: 1" = 20' SHEET NO. 3 OF 5 SHEETS STA. 22+00.0 TO STA. 27+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	42
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				



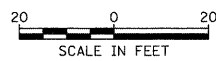
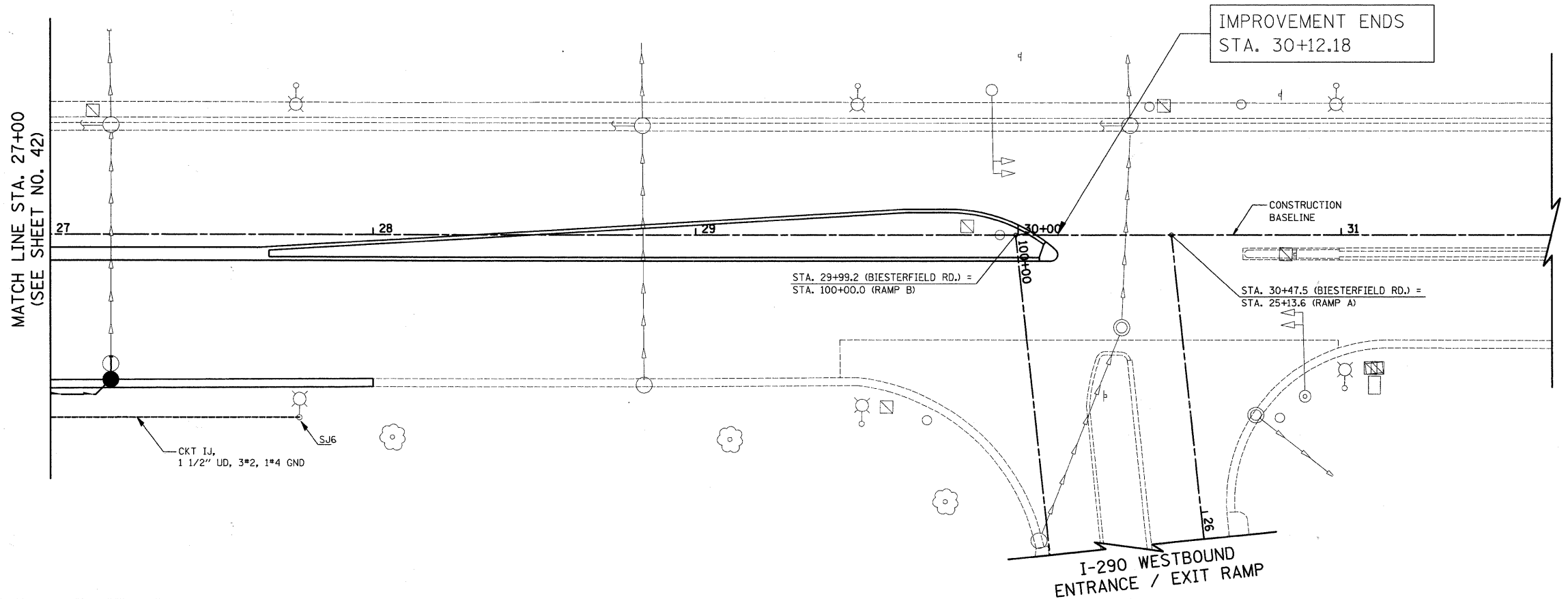
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IL ROUTE 53  
(BIESTERFIELD ROAD)  
EXISTING LIGHTING PLAN



PROFILE	DATE
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IL ROUTE 53  
(BIESTERFIELD ROAD)  
PROPOSED LIGHTING PLAN



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DESIGNED - EE
DRAWN - DJK
CHECKED - DEM
DATE - 07-07-10
REVISIONS
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

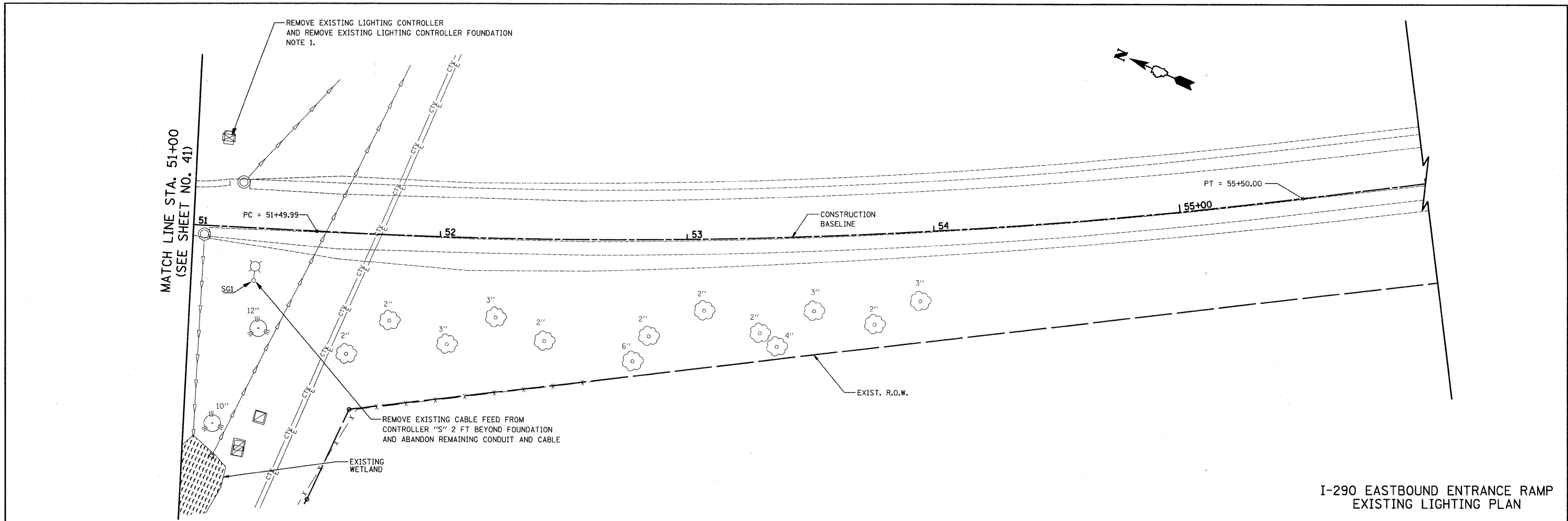
IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
LIGHTING PLAN

SCALE: 1" = 20' SHEET NO. 4 OF 5 SHEETS STA. 27+00.0 TO STA. 30+12.18

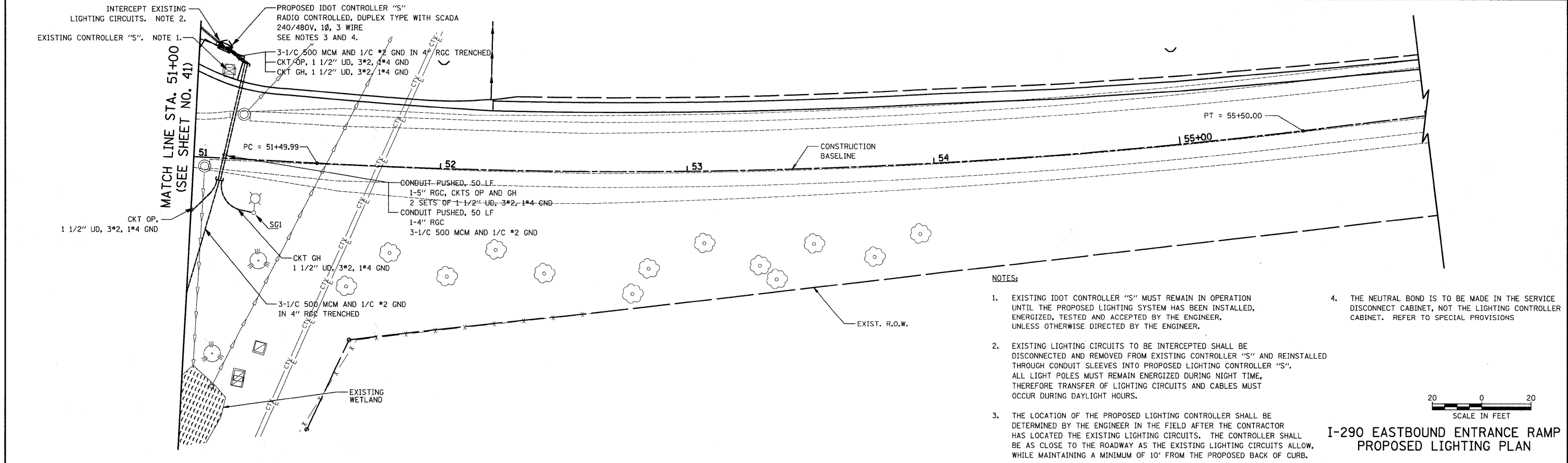
F.A.U. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 43
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-N-9003569				

PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	BY
NO.	RT. OF WAY CHECKED	
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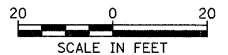


I-290 EASTBOUND ENTRANCE RAMP  
EXISTING LIGHTING PLAN



**NOTES:**

- EXISTING IDOT CONTROLLER "S" MUST REMAIN IN OPERATION UNTIL THE PROPOSED LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- EXISTING LIGHTING CIRCUITS TO BE INTERCEPTED SHALL BE DISCONNECTED AND REMOVED FROM EXISTING CONTROLLER "S" AND REINSTALLED THROUGH CONDUIT SLEEVES INTO PROPOSED LIGHTING CONTROLLER "S". ALL LIGHT POLES MUST REMAIN ENERGIZED DURING NIGHT TIME, THEREFORE TRANSFER OF LIGHTING CIRCUITS AND CABLES MUST OCCUR DURING DAYLIGHT HOURS.
- THE LOCATION OF THE PROPOSED LIGHTING CONTROLLER SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD AFTER THE CONTRACTOR HAS LOCATED THE EXISTING LIGHTING CIRCUITS. THE CONTROLLER SHALL BE AS CLOSE TO THE ROADWAY AS THE EXISTING LIGHTING CIRCUITS ALLOW, WHILE MAINTAINING A MINIMUM OF 10' FROM THE PROPOSED BACK OF CURB.
- THE NEUTRAL BOND IS TO BE MADE IN THE SERVICE DISCONNECT CABINET, NOT THE LIGHTING CONTROLLER CABINET. REFER TO SPECIAL PROVISIONS

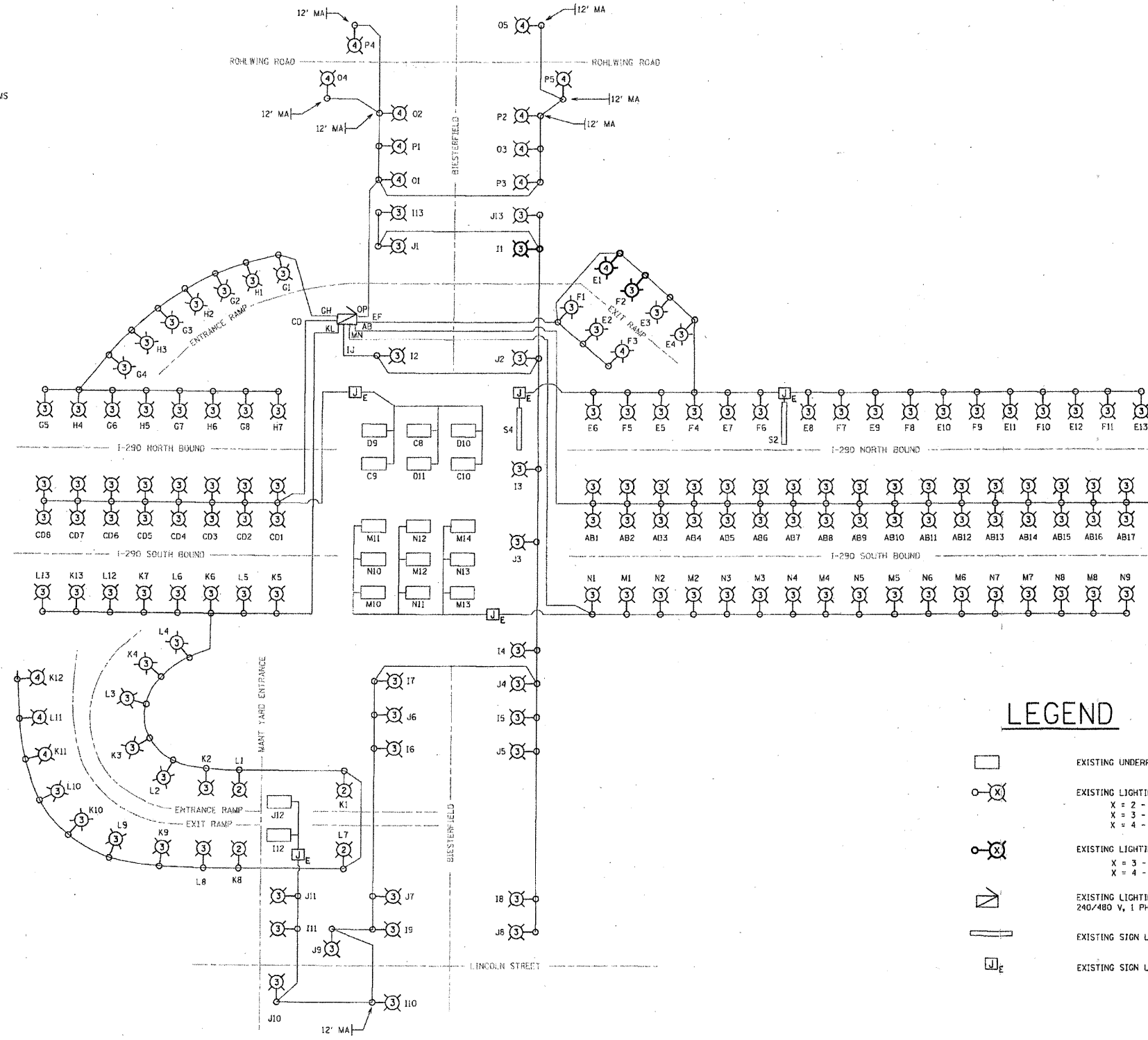


I-290 EASTBOUND ENTRANCE RAMP  
PROPOSED LIGHTING PLAN

FILE NAME = ...oad\sheet\2349.Light 05.dgn	USER NAME = djk	DESIGNED - EE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290 LIGHTING PLAN</b>	F.A.U. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 44	
PLOT SCALE = 20.0000' / IN.	CHECKED - DEM	REVISOR -	REVISOR -			SCALE: 1" = 20'		SHEET NO. 5 OF 5 SHEETS		STA. 51+00.0 TO STA. 56+00.0	
PLOT DATE = 7/26/2010	DATE - 07-07-10	REVISOR -	REVISOR -			CONTRACT NO. 63505					
						FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT ARA-M-9003(569)					

NOTES:

ALL LIGHTING UNITS ON I-290 HAVE 8' MAST ARMS  
 ALL LIGHTING UNITS ON RAMP AND SIDE ROADS  
 HAVE 15' MAST ARMS UNLESS OTHERWISE NOTED



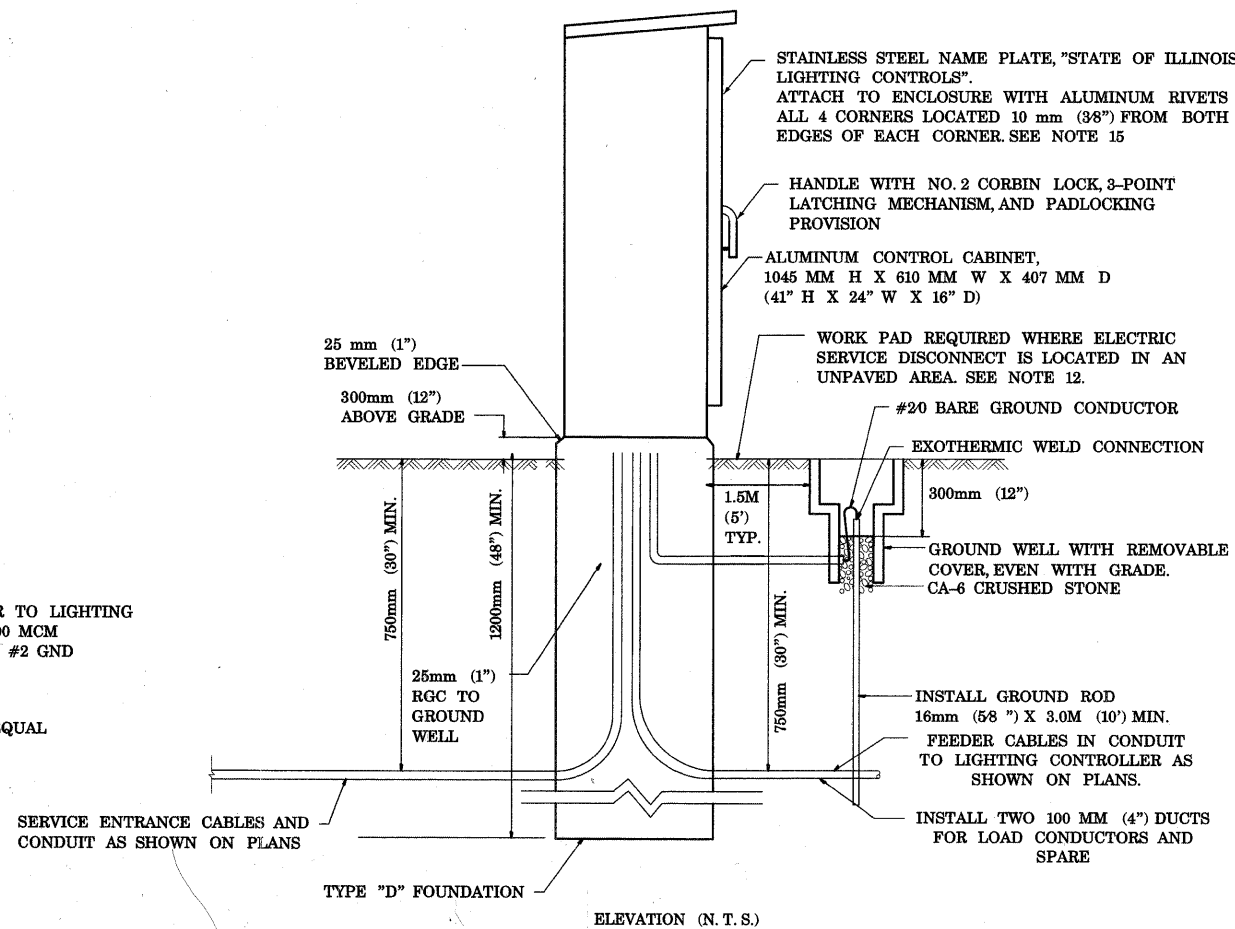
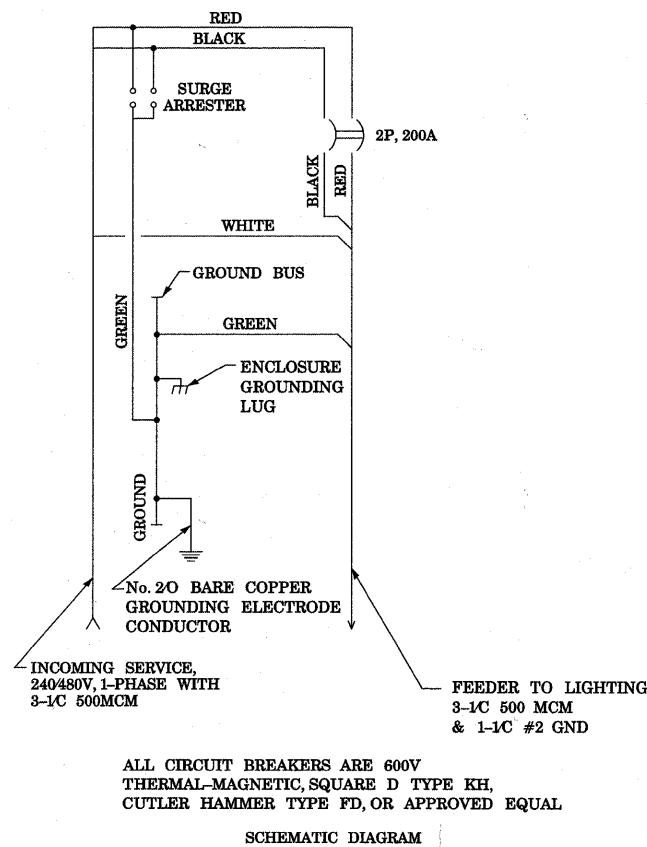
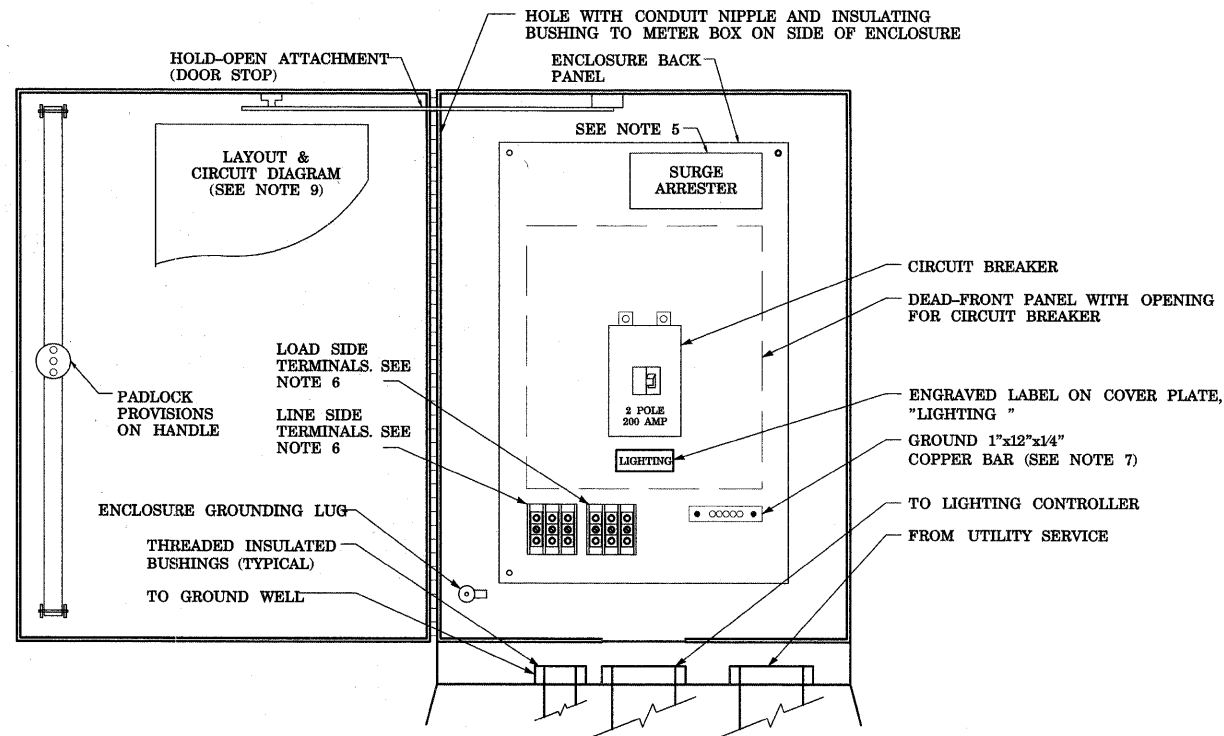
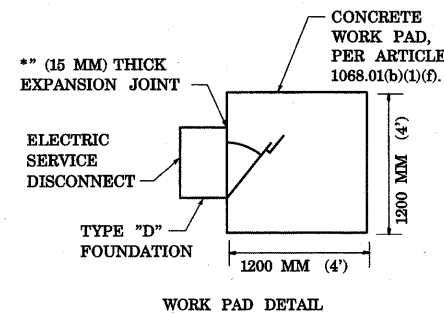
LEGEND

- EXISTING UNDERPASS LIGHTING UNIT 55 WATT
- EXISTING LIGHTING UNIT  
 X = 2 - 250 WATT LUMINAIRE  
 X = 3 - 310 WATT LUMINAIRE  
 X = 4 - 400 WATT LUMINAIRE
- EXISTING LIGHTING UNIT TO BE REMOVED AND RELOCATED  
 X = 3 - 310 WATT LUMINAIRE  
 X = 4 - 400 WATT LUMINAIRE
- EXISTING LIGHTING CONTROLLER "S"  
 240/480 V, 1 PHASE, 3 WIRE
- EXISTING SIGN LIGHTING
- EXISTING SIGN LIGHTING

E2

FILE NAME = c:\p\work\PM1007\POULTERMA\0818143V1	USER NAME = poulterma	DESIGNED - -	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-290 AND BIESTERFIELD ROAD ONE-LINE DIAGRAM CONTROLLER "S"</b>	F.A.J. RTE. 290	SECTION 0101-311 HBK-1	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 45
PLOT SCALE = 100.0000' / IN.	CHECKED - -	REVISED - -	SCALE: NTS			SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 60J32	
PLOT DATE = 3/22/2010	DATE - -	REVISED - -						ILLINOIS FED. AID PROJECT		
FOR REFERENCE ONLY										

FILE NAME = ...2349_Lighting_Details.dgn	USER NAME = djk	DESIGNED - EE	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290 LIGHTING ONE-LINE DIAGRAM</b>	F.A.J. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 45
PLOT SCALE = 50.0000' / IN.	CHECKED - DEM	REVISED - -	SCALE: NTS			SHEET NO. 1 OF 1 SHEETS			CONTRACT NO. 63505	
PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED - -						ILLINOIS FED. AID PROJECT ARA-M-900315691		
FOR REFERENCE ONLY										

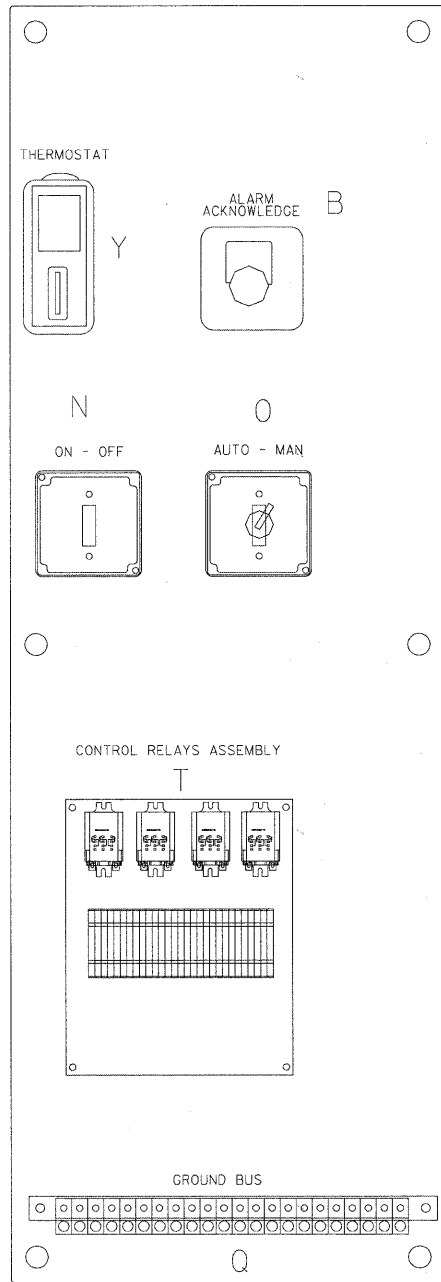
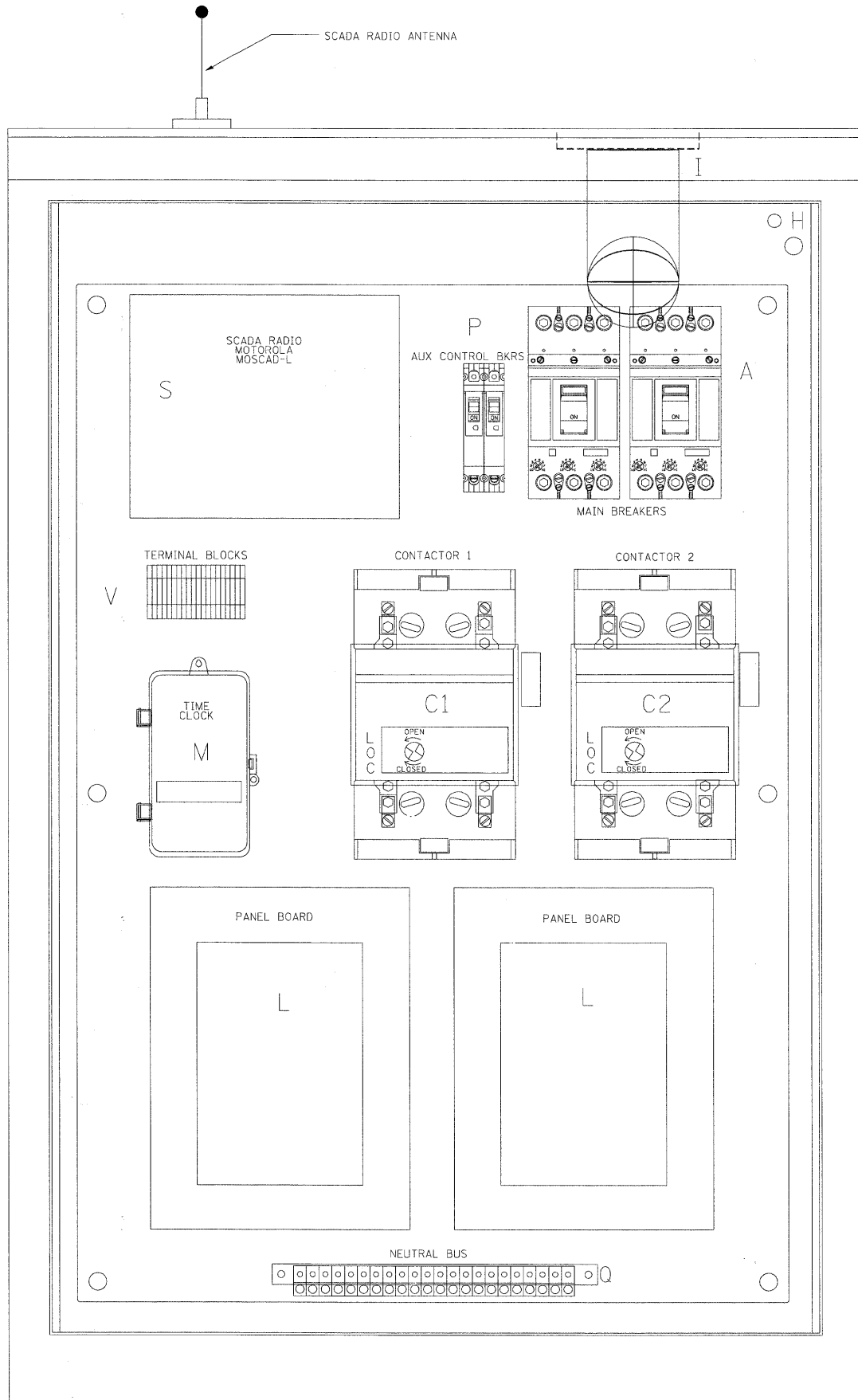


**NOTES:**

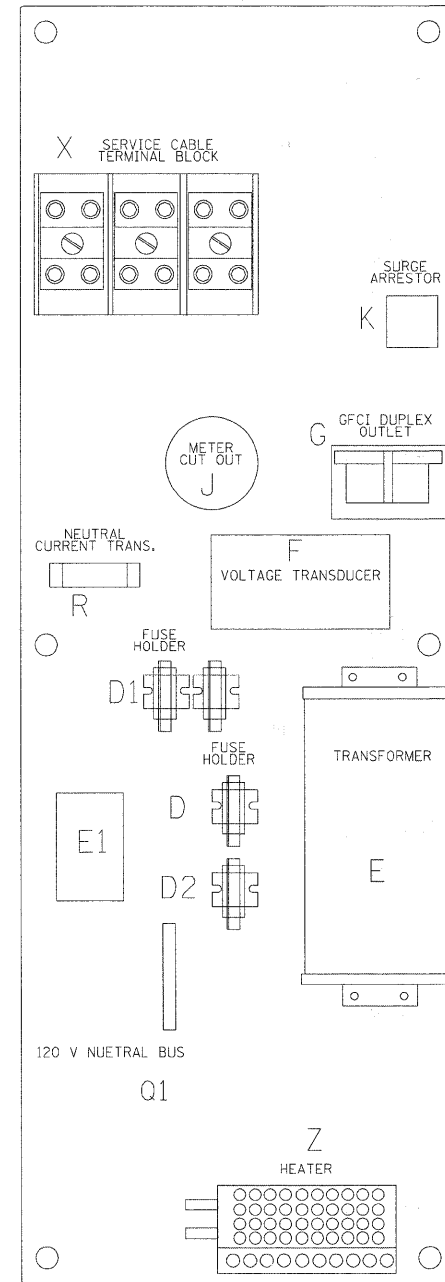
- ELECTRIC SERVICE SHALL BE SINGLE PHASE THREE WIRE 240/480 VOLT. SERVICE CABLE AND CONDUIT SHALL BE COMPATIBLE WITH THE SERVICE.
- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SERVICE ENTRANCE EQUIPMENT AND ACCEPTABLE TO COM ED.
- THE ELECTRIC SERVICE DISCONNECT ENCLOSURE SHALL BE AN ALUMINUM CONTROL CABINET, APPROXIMATELY 41" H X 24" W X 16" D, WITH A PLANO-HINGED DOOR, INSULATING BACK PANEL, LEVER HANDLE WITH 3-POINT LATCHING MECHANISM, PADLOCK PROVISION, AND DOOR STOP.
- CIRCUIT BREAKER SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 600 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR OSHA LOCK-OUT/TAG-OUT. HANDLES SHALL BE TRIP FREE.
- THE SURGE PROTECTOR SHALL BE SUITABLE FOR SINGLE PHASE 60 HZ ELECTRICAL SERVICE OF THE INDICATED VOLTAGE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 820 MICRO-SECOND PULSE, RATED -40 TO 60 DEGREES C., AND SHALL BE UL LISTED PER UL 1449, GENERAL ELECTRIC "TRANQUELL" MODEL 9L15ECB001 (240/480 V).
- CONNECTORS AND TERMINALS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL CONNECTORS AND TERMINALS SHALL BE LOCATED BEHIND A REMOVABLE DEAD-FRONT PANEL.
- THE GROUND BUS BAR SHALL HAVE SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN.
- THE WIRING TERMINAL ARRANGEMENT, INCLUDING THE GROUND BAR, SHALL PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- A WATERPROOF HOT-RUN LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED WITH STAINLESS STEEL NUTS TO WELD STUDS ON THE INSIDE OF THE ENCLOSURE DOOR.
- THE CIRCUIT BREAKERS SHALL HAVE A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS AND ENGRAVED AS SHOWN.
- TERMINALS AND CONNECTORS SHALL BE RATED FOR 75° C CONDUCTORS.
- A WORK PAD SHALL BE CONSTRUCTED WHERE THE DOOR SIDE OF THE ELECTRICAL SERVICE DISCONNECT DOES NOT FACE AND ABUT PAVEMENT. THE SLAB SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 1068.01(b)(1)(f) OF THE STANDARD SPECIFICATIONS.
- THE ELECTRIC SERVICE DISCONNECT SHALL BE LOCATED WITHIN THE IDOT RIGHT-OF-WAY, AND OUTSIDE THE CLEAR ZONE. THE DOOR OF THE ELECTRICAL SERVICE DISCONNECT SHALL BE ORIENTED SO THAT A PERSON FACING THE ELECTRICAL SERVICE DISCONNECT IS LOOKING TOWARD ONCOMING TRAFFIC (PREFERRED) OR ACROSS THE MAJOR STREET.
- THE ELECTRIC SERVICE DISCONNECT FOUNDATION SHALL BE CONSTRUCTED IN COMPLIANCE WITH SECTION 878 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD DRAWING 878001-03, AS MODIFIED ON THIS SHEET. CONFIRM ANCHOR BOLT SIZE AND LOCATIONS WITH CABINET SHOP DRAWINGS PRIOR TO CONSTRUCTING FOUNDATION. THE GROUND ROD SHALL BE INSTALLED IN AN ACCESS WELL, AND SHALL NOT BE EMBEDDED IN THE FOUNDATION OR THE CONCRETE WORK PAD.
- THE CABINET NAME PLATES SHALL BE STAINLESS STEEL, 1.588 mm (1/16") THICK, 75 mm (3") HIGH, AND OF A LENGTH SUFFICIENT TO CONTAIN THE LEGEND, IN TWO ROWS OF ENGRAVED, BLACK-ENAMEL-FILLED TEXT 19 mm (3/4") TALL, WITH A 25 mm (1") MARGIN AT EACH END OF THE NAME PLATE.
- THE NEUTRAL BOND IS TO BE MADE IN THE SERVICE DISCONNECT CABINET, NOT THE LIGHTING CONTROLLER CABINET. REFER TO SPECIAL PROVISIONS.

**SERVICE DISCONNECT CABINET**

FILE NAME = ... \2349_Lighting_Details.2.dgn	USER NAME = djjk	DESIGNED - EE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290 LIGHTING DETAILS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - DJK	REVISED -			1339	09-00054-00-CH	COOK	88	46	
		CHECKED - DEM	REVISED -			<b>CONTRACT NO. 63505</b>					
		DATE - 07-07-10	REVISED -			SHEET NO. 1 OF 1 SHEETS					
						FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT ARA-M-90031569					



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-20 FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK-2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA 240/120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVERED TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 900IK11BH13, 2 POSITION SWITCH IN 900IKY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 x 16 x 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4) . QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SLPIICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

\* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

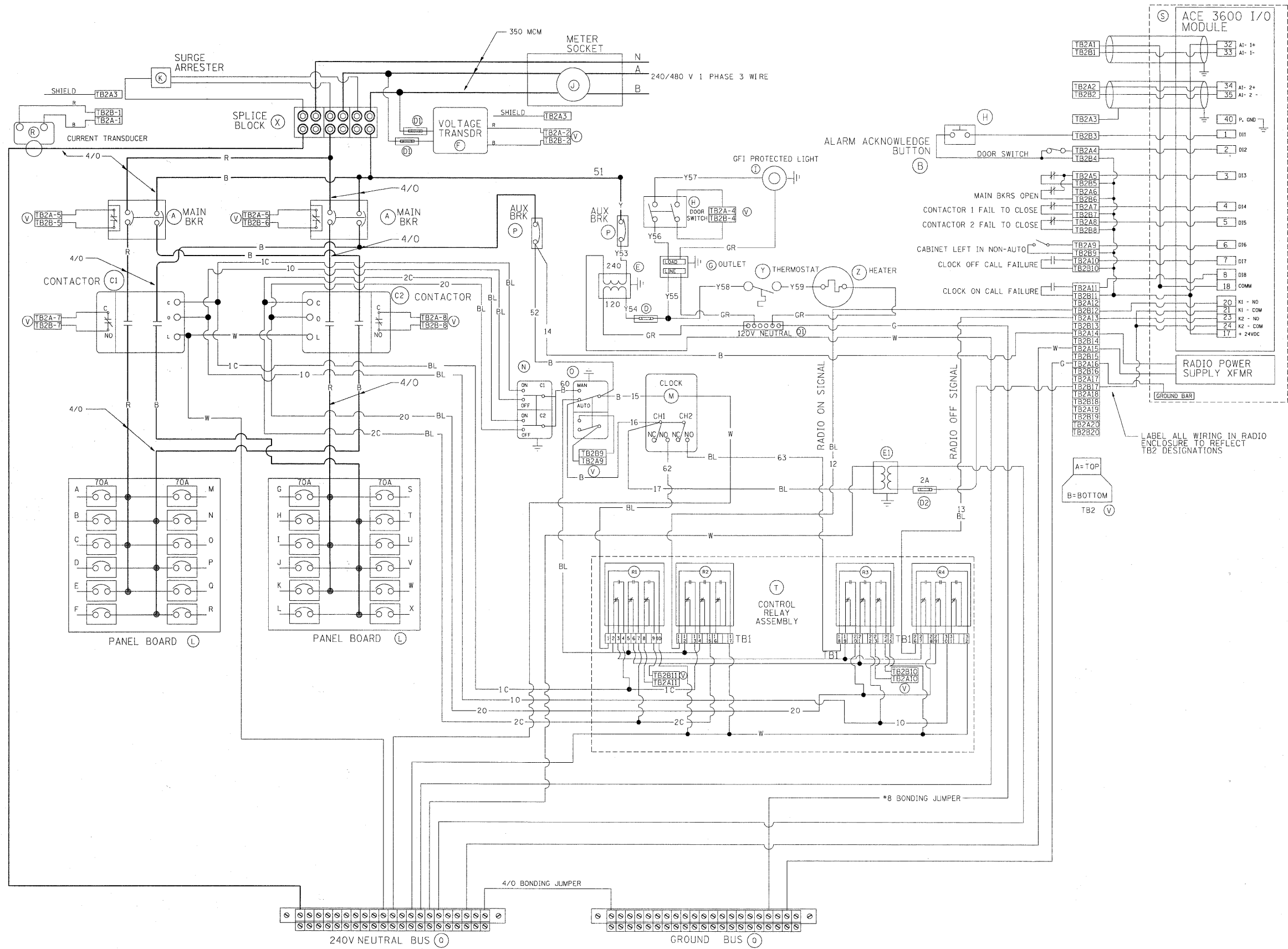
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, RADIO CONTROL  
DUPLEX TYPE WITH SCADA

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

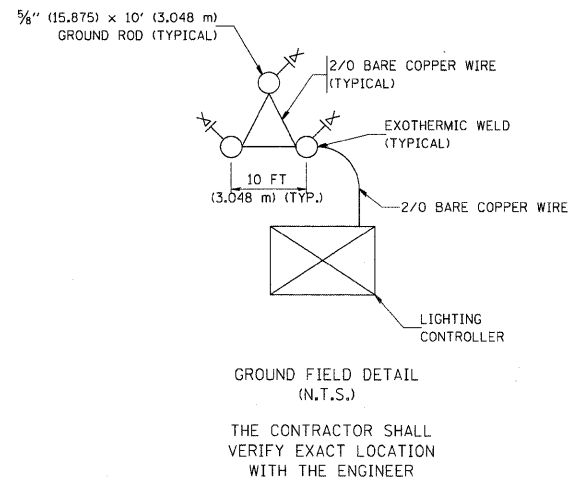
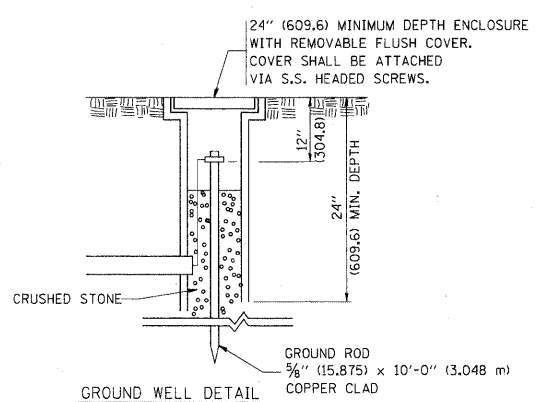
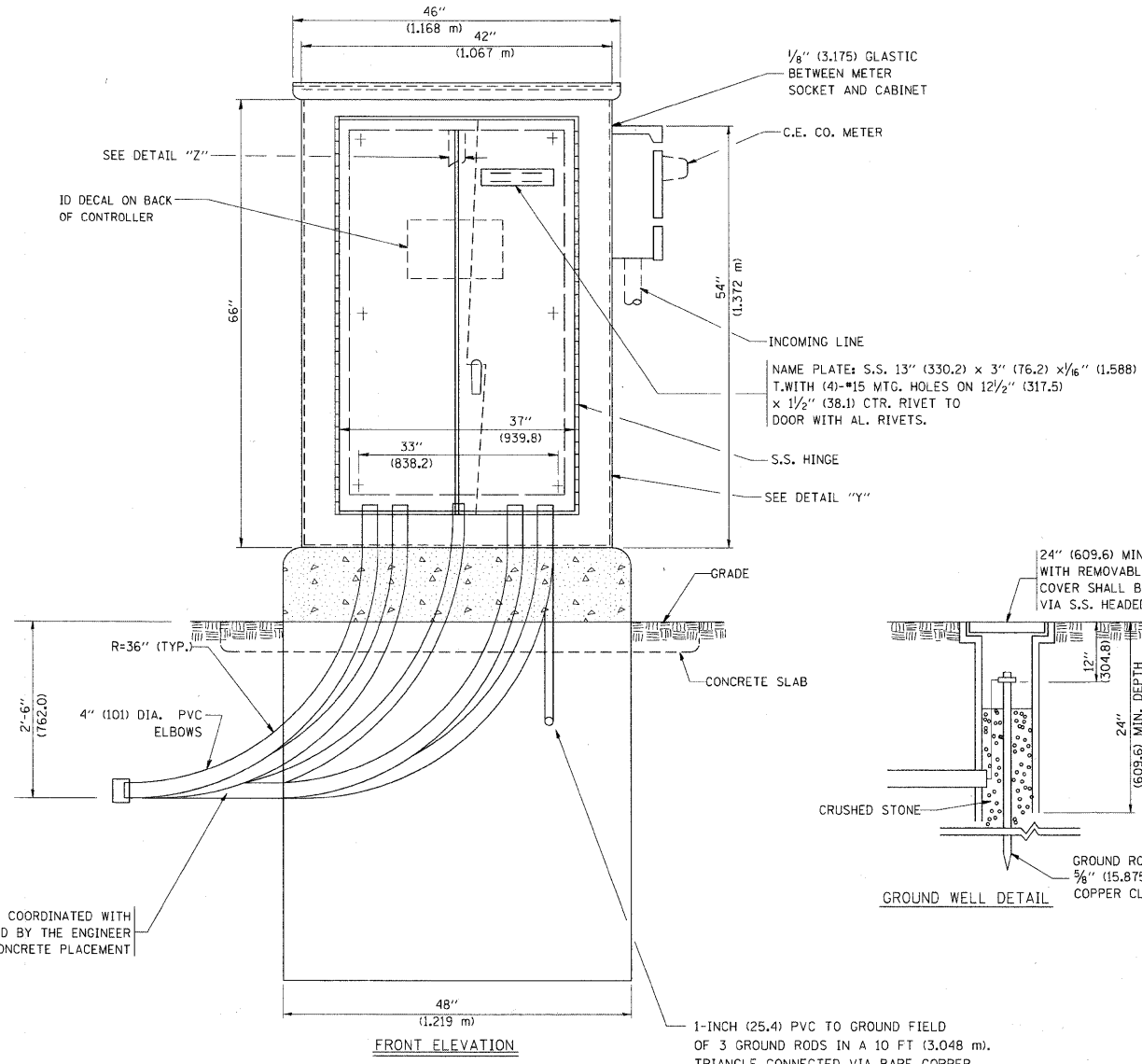
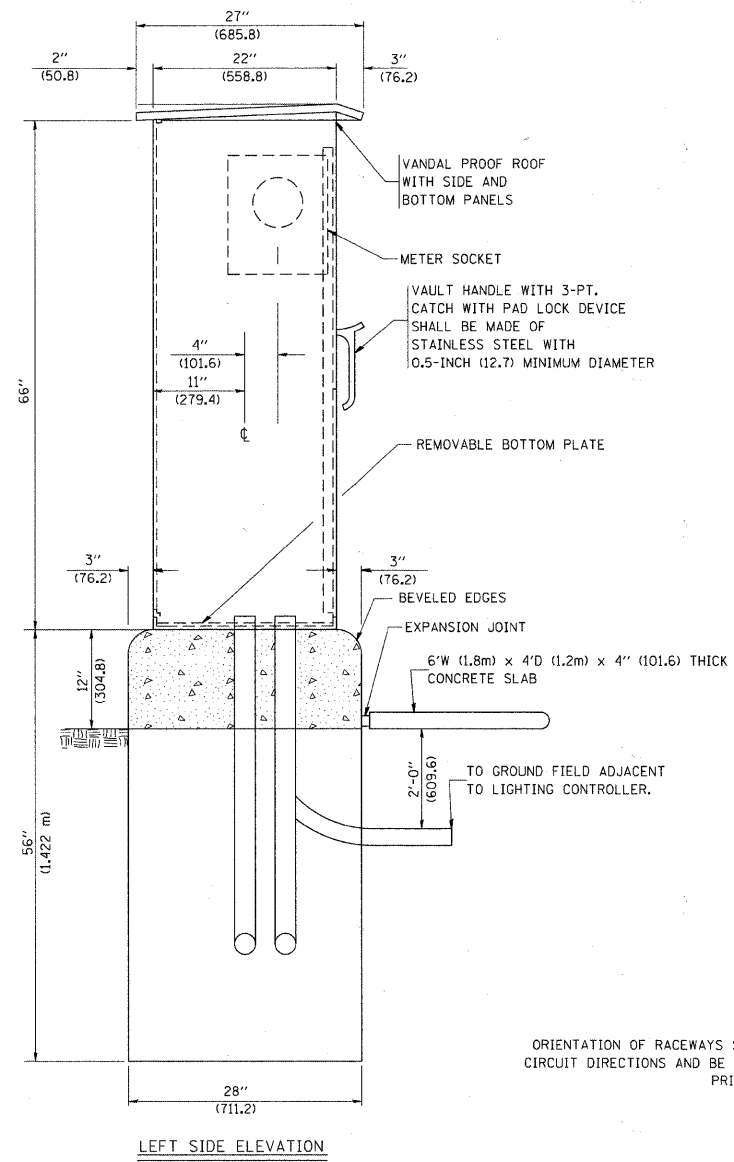
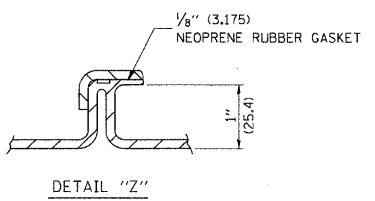
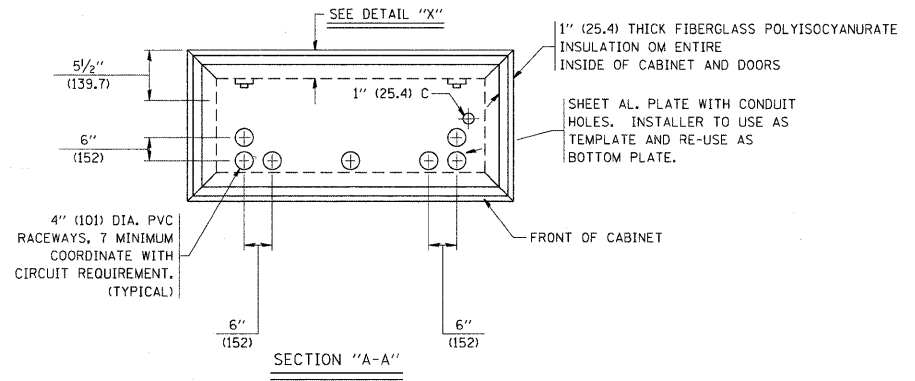
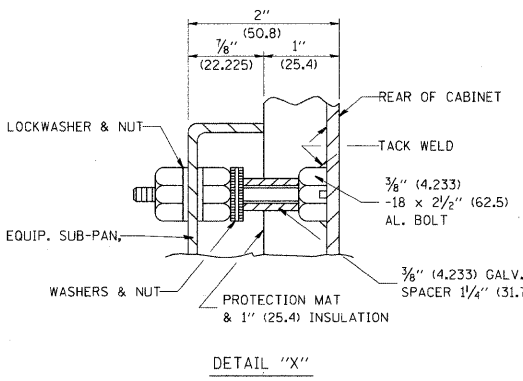
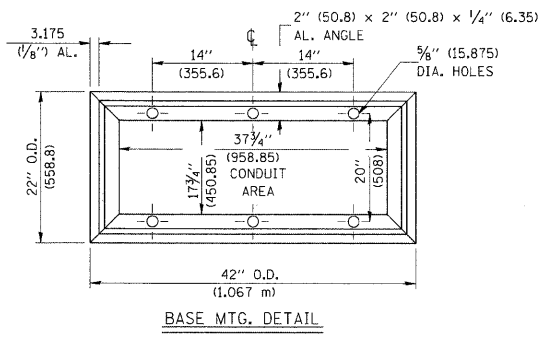
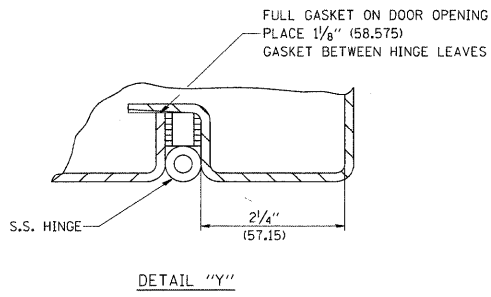
F.A.U. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	47
BE-205			CONTRACT NO. 63505	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT ARA-M-9003(569)				



BILL OF MATERIALS		
ITEM #	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK- 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA 240/120-24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER
G	1	15 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH A-20GQ-B7-K
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 900KSI1B13, 2 POSITION SWITCH IN 900IKY1 ENCLOSURE
P	2	BREAKER IP 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 x 16 x 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 I/O AND #6 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA ACE 3600
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4) . QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

NOTE: THE NEUTRAL BOND IS TO BE MADE IN THE SERVICE DISCONNECT CABINET, NOT THE LIGHTING CONTROLLER CABINET. REFER TO SPECIAL PROVISIONS





ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

1-INCH (25.4) PVC TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - R. TOMSONS 08-19-04
c:\pwwork\pwwid\DRIVAKOSGN\c0108315\c0205.dgn		DRAWN -	REVISED - R. TOMSONS 05-11-09
	PLOT SCALE = 50.000 "/ IN.	CHECKED -	REVISED -
	PLOT DATE = 5/11/2009	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, RADIO CONTROL  
DUPLIX TYPE WITH SCADA

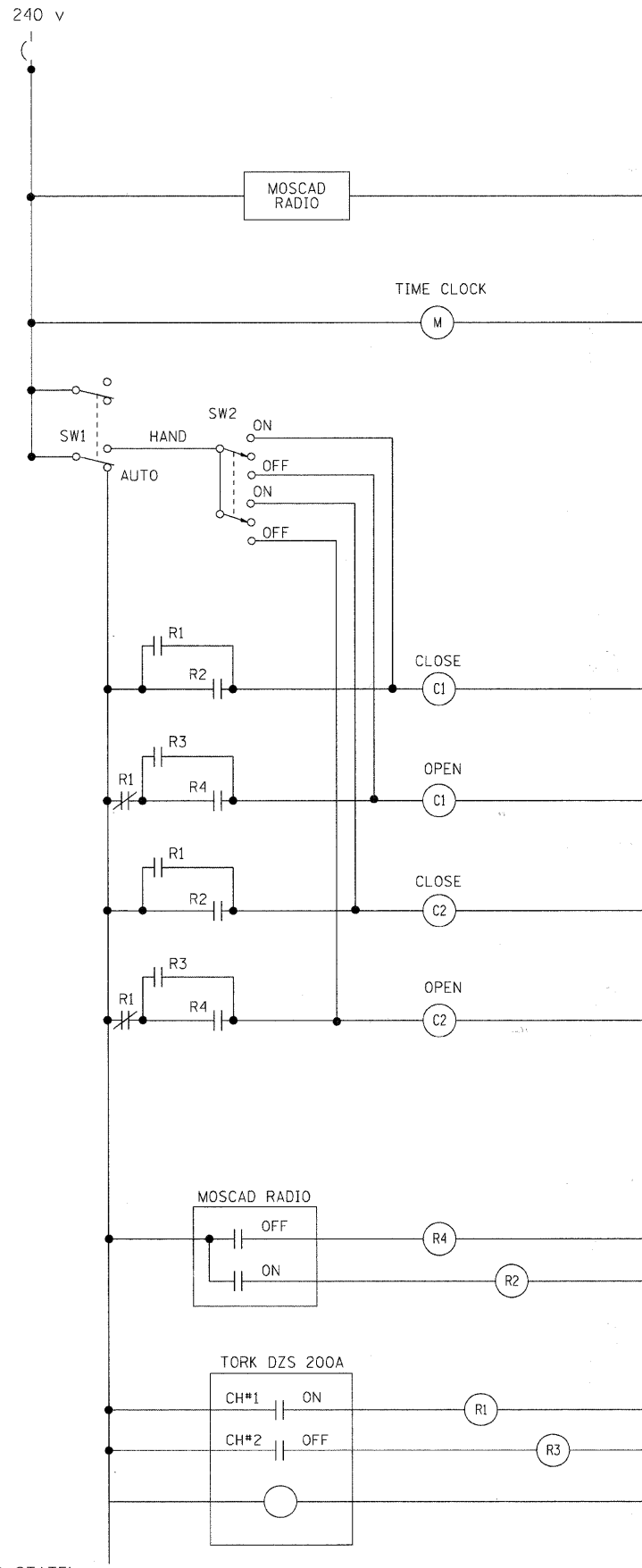
SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	49
BE-205		CONTRACT NO. 63505		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				

NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 

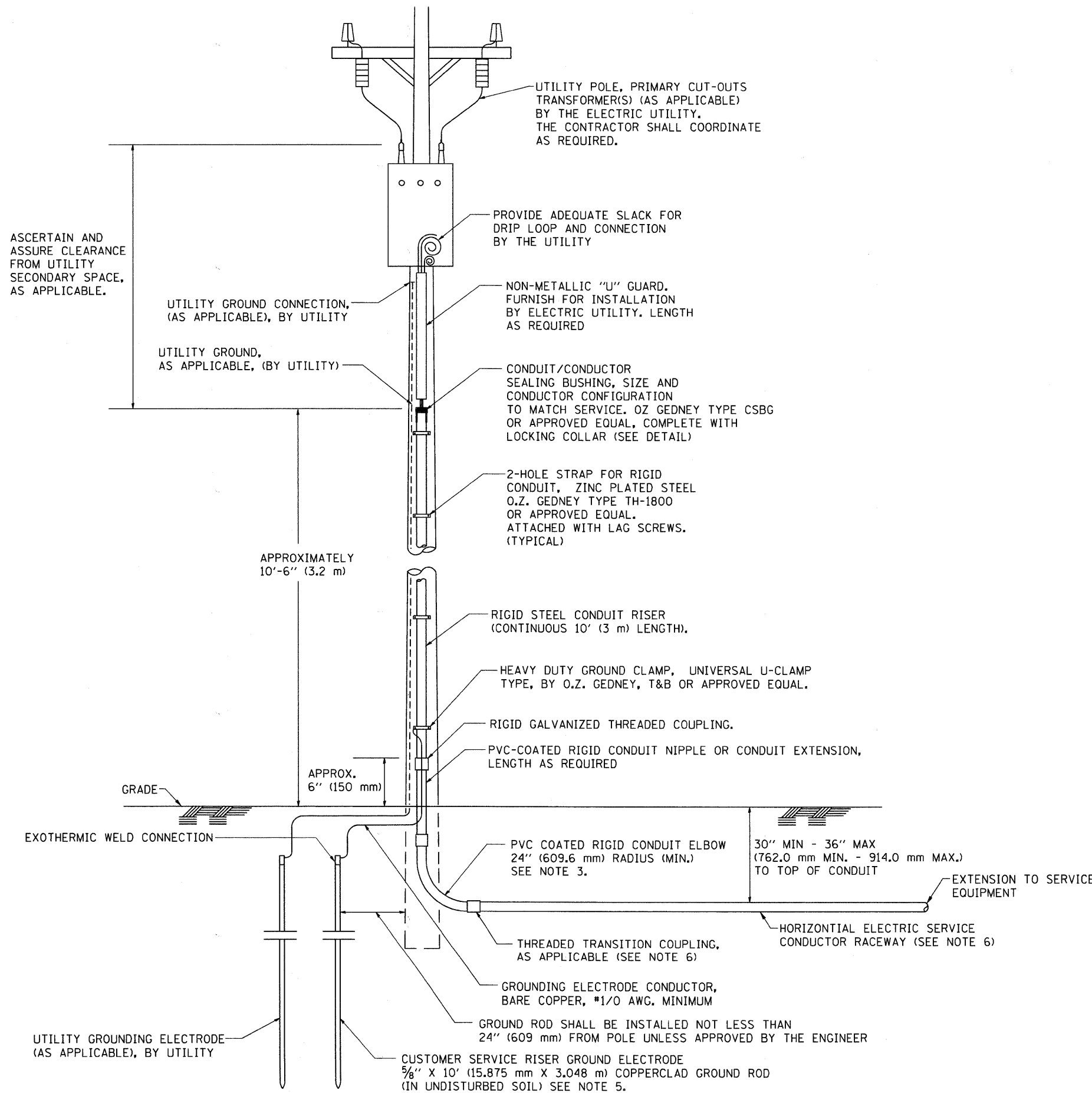
R - RED	Y - YELLOW
B - BLACK	W - WHITE
BL - BLUE	G - GREEN
	GR - GREY
- MOSCAD I/O WIRING SHALL BE:
  - DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
  - ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
  - AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD  
MIXED I/O MODULE MODEL NUMBER V436



ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

UTILITY GROUND CONNECTION, (AS APPLICABLE), BY UTILITY

UTILITY GROUND, AS APPLICABLE, (BY UTILITY)

APPROXIMATELY 10'-6" (3.2 m)

APPROX. 6" (150 mm)

30" MIN - 36" MAX (762.0 mm MIN. - 914.0 mm MAX.) TO TOP OF CONDUIT

EXOTHERMIC WELD CONNECTION

GRADE

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

CUSTOMER SERVICE RISER GROUND ELECTRODE 5/8" X 10' (15.875 mm X 3.048 m) COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL) SEE NOTE 5.

UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S) (AS APPLICABLE) BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

CONDUIT/CONDUCTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. O.Z. GEDNEY TYPE CSBG OR APPROVED EQUAL, COMPLETE WITH LOCKING COLLAR (SEE DETAIL)

2-HOLE STRAP FOR RIGID CONDUIT, ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' (3 m) LENGTH).

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE, BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING.

PVC-COATED RIGID CONDUIT NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

PVC COATED RIGID CONDUIT ELBOW 24" (609.6 mm) RADIUS (MIN.) SEE NOTE 3.

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 6)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/0 AWG. MINIMUM

GROUND ROD SHALL BE INSTALLED NOT LESS THAN 24" (609 mm) FROM POLE UNLESS APPROVED BY THE ENGINEER

EXTENSION TO SERVICE EQUIPMENT

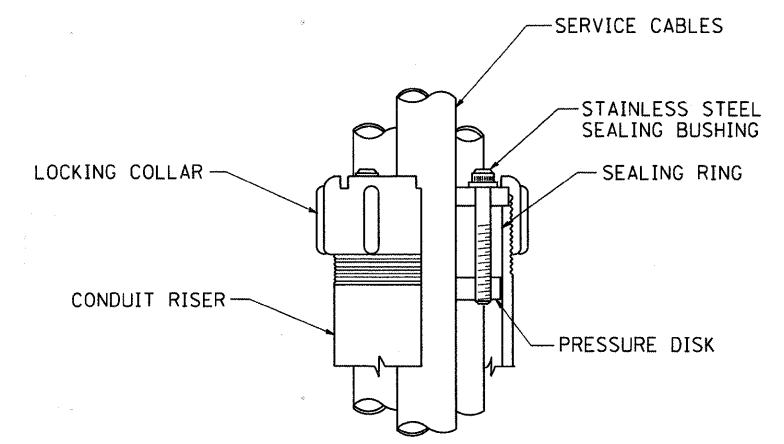
HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY (SEE NOTE 6)

**APPLICATION**

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

**NOTES**

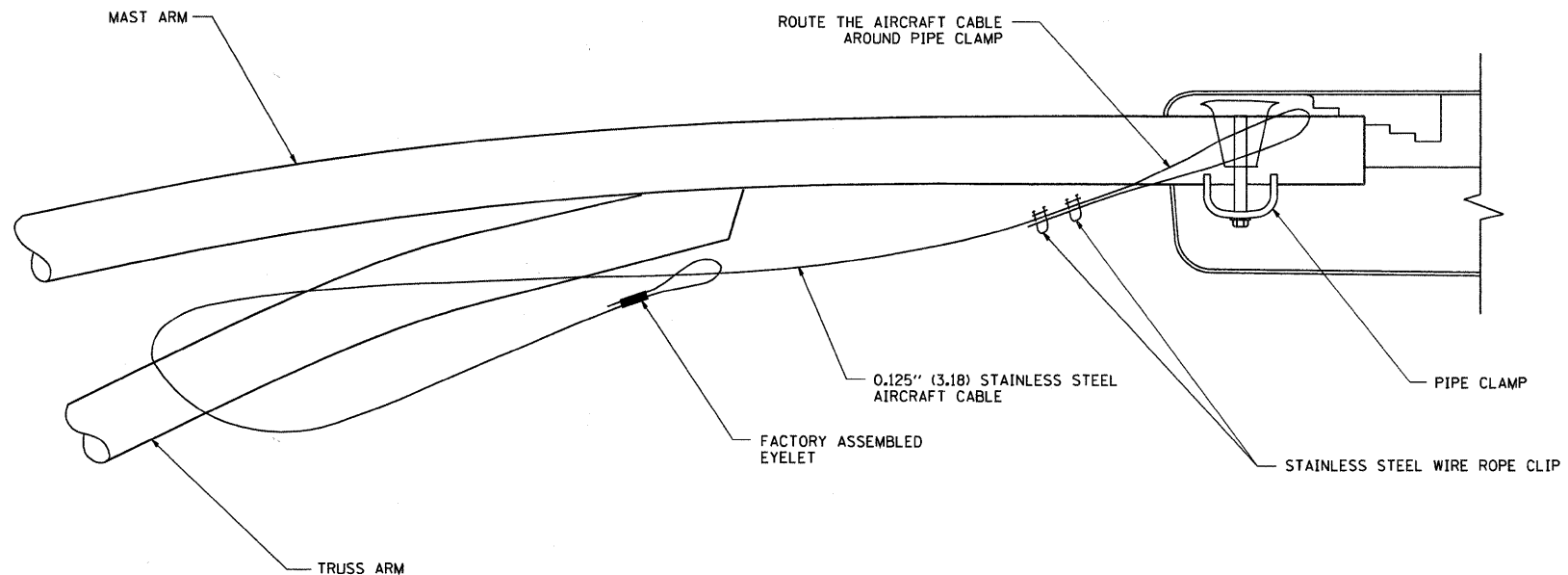
- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



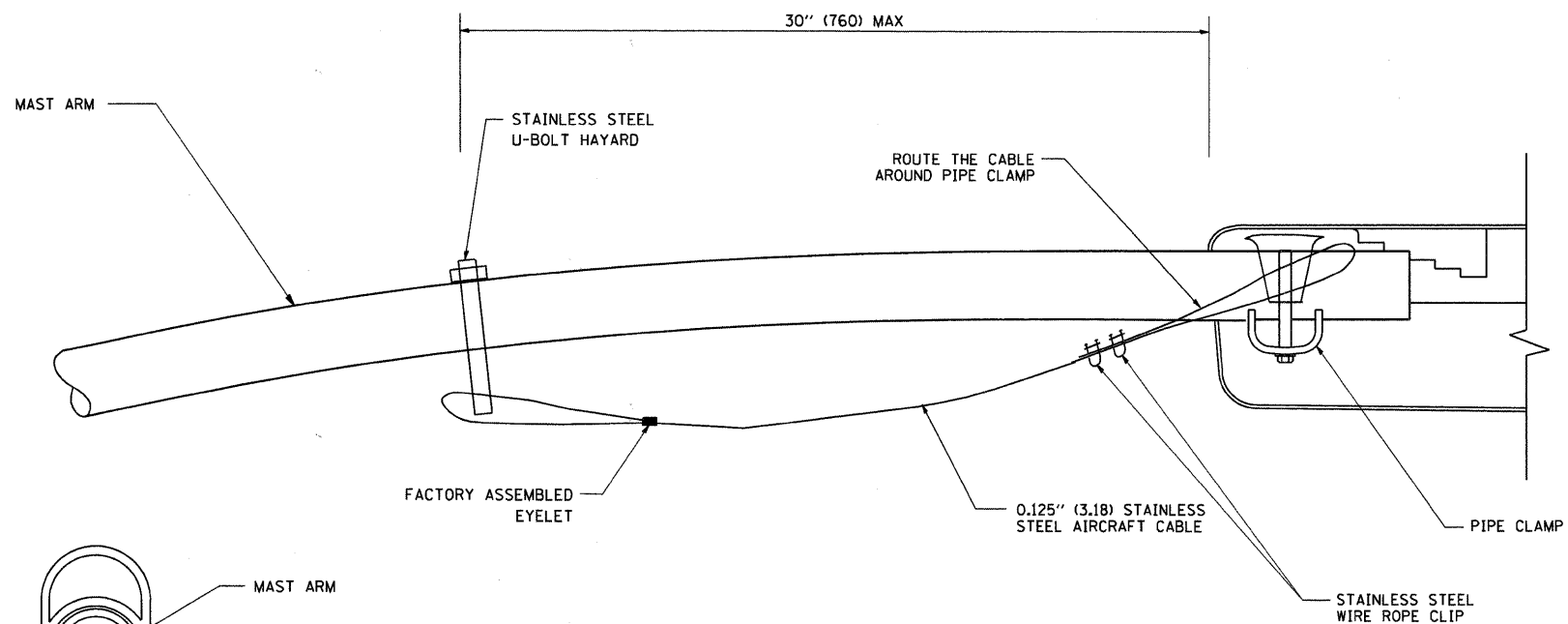
**SEALING BUSHING DETAIL**

FILE NAME = W:\diststd\22x34\be220.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 03-03-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT</b>			F.A.U. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 51
PLOT SCALE = 50.0000' / IN.	CHECKED - MEA	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BE-220</b>			
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT ARA-M-9003(569)							
											CONTRACT NO. 63505	

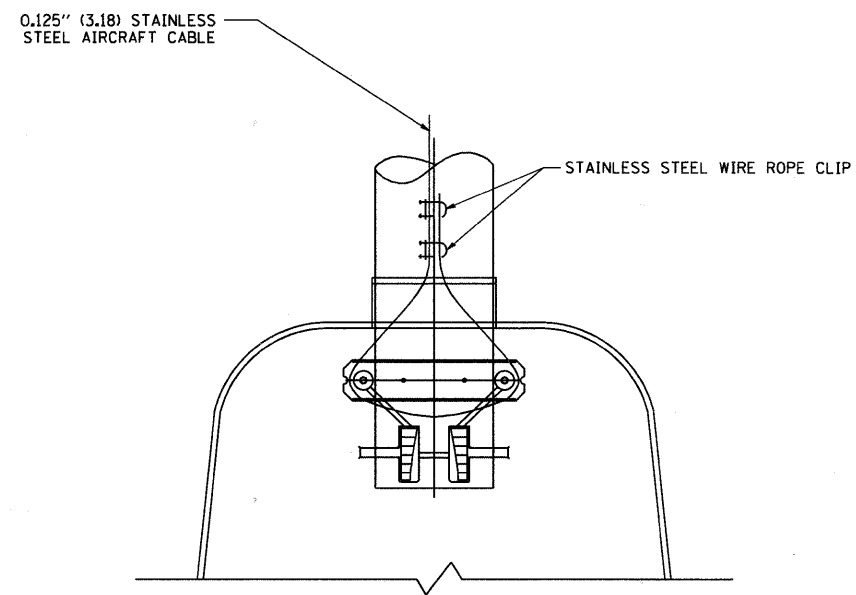
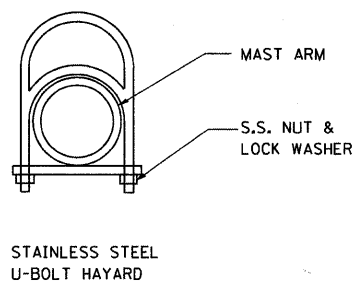




**SIDE VIEW (TRUSS ARM)**  
N.T.S.



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

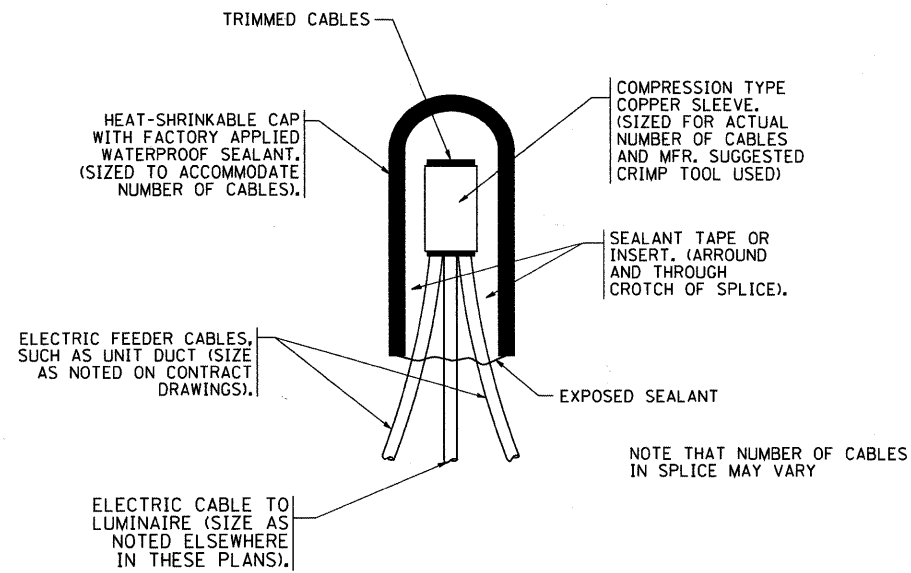


**BOTTOM VIEW**  
N.T.S.

**NOTES:**

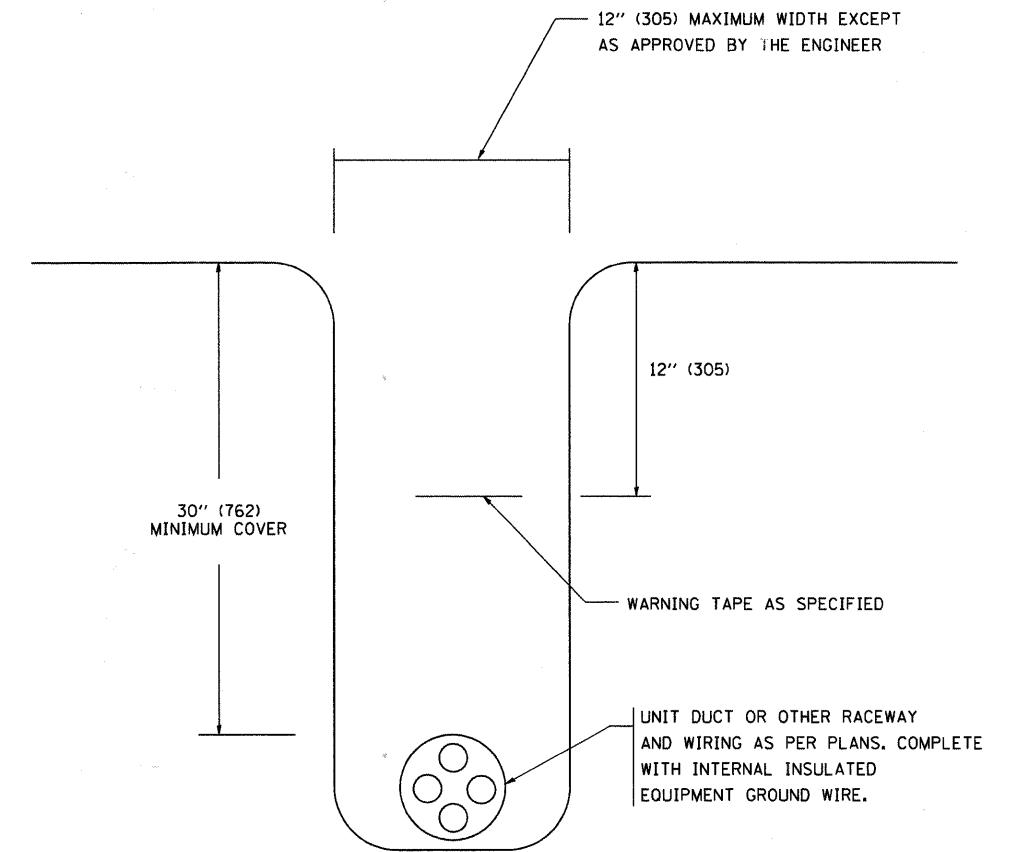
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LUMINAIRE SAFETY CABLE ASSEMBLY</b>				F.A.U. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 53
	PLOT SCALE = 50.000 / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BE-701</b>				
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -		CONTRACT NO. 63505								
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)								

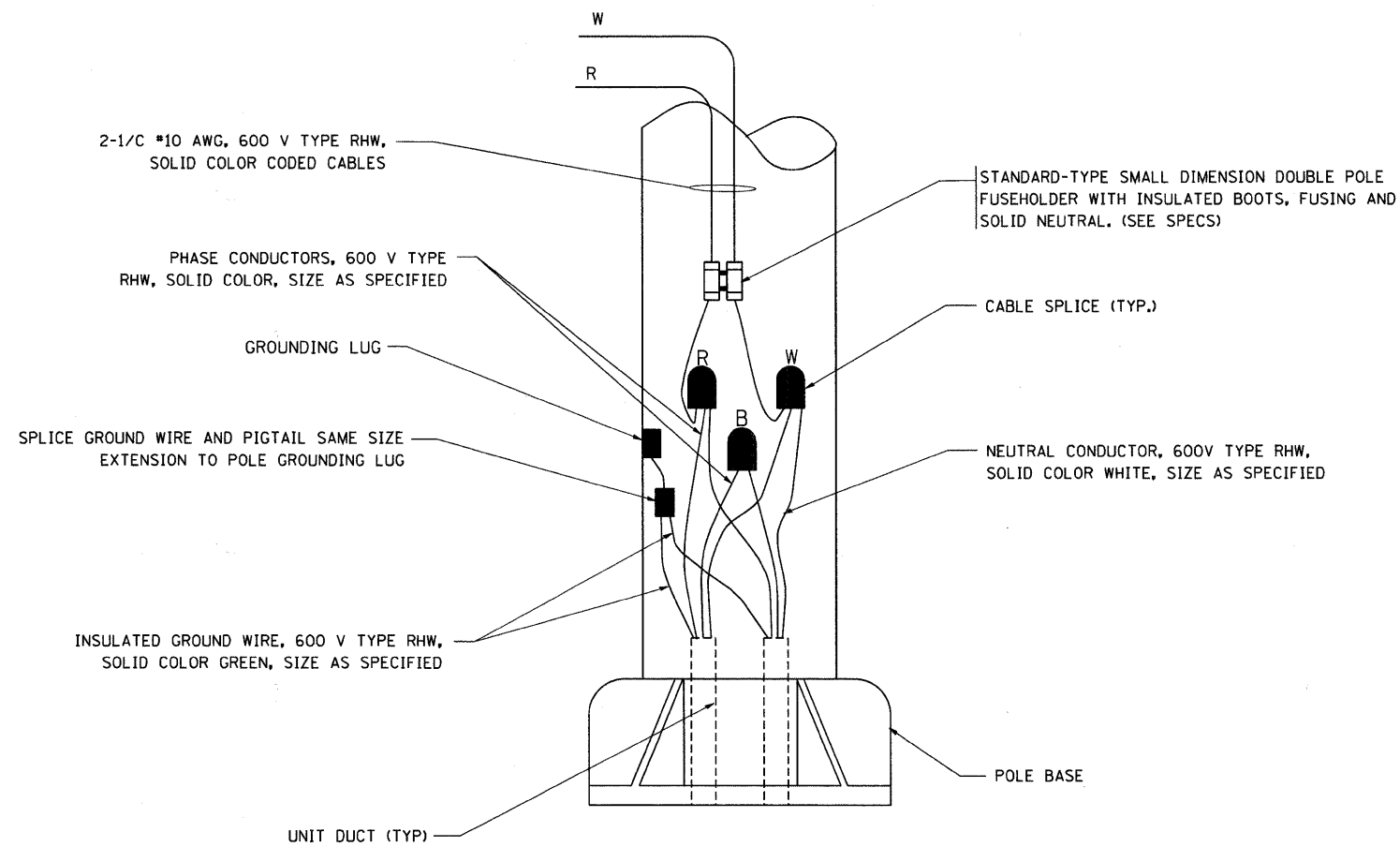


**TYPICAL SPLICE DETAIL**  
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



**TYPICAL WIRING IN TRENCH DETAIL**  
N.T.S.



**POLE WIRING DETAIL**  
N.T.S.

FILE NAME = M:\diststd\22x34\ba702.dgn	USER NAME = goglianobt	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISC. ELECTRICAL DETAILS SHEET A</b>				F.A.J. RTE. 1339	SECTION 09-00054-00-CH <b>BE-702</b>	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 54
	PLOT SCALE = 5/8" = 1" IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT ARA-M-9003(569)				
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -										
		DATE -	REVISED -										

**Benchmark:**

Rim of Traffic Signal Manhole located approximately 13 feet East of I-290 Bridge (North side of Biesterfeld Road). Elev. = 726.11

**Existing Structure:**

Existing Structure No. 016-0960 was constructed in 1968. The bridge contains two continuous built-up I girder spans over the roadway with vaulted approaches at each end. The vaulted approach spans are constructed with PPC I-beams. The existing structure was widened in 1989. The length of bridge is 283 feet Bk. to Bk. Abutments with an 77'-0" out to out. The foundations are spread footing on concrete piles.

Traffic will be maintained (staged) during construction.

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
5. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

**INDEX OF SHEETS**

- S1 General Plan
- S2 Stage Construction Details
- S3 Concrete Removal Details
- S4 Deck & Approach Raised Median Details
- S5 Expansion Joint Details

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 1339	09-00054-00-CH	COOK	88	55

Contract # 63505

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	26.5
Protective Shield	Sq. Yd.	70
Concrete Superstructure	Cu. Yd.	10.8
Reinforcement Bars, Epoxy Coated	Pound	1,370
Preformed Joint Seal, 4"	Foot	79
Bridge Deck Concrete Overlay	Sq. Yd.	31

\* See Special Provision.

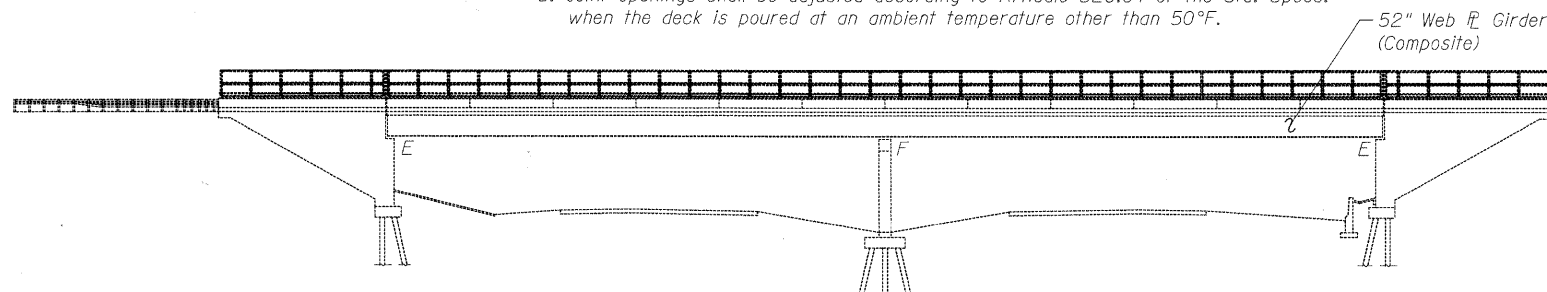
CIVILTECH ENGINEERING, INC.  
GREGORY J. HATLESTAD, S.E.



*G. Hatlestad*  
GREGORY J. HATLESTAD, S.E.  
# 081-005562

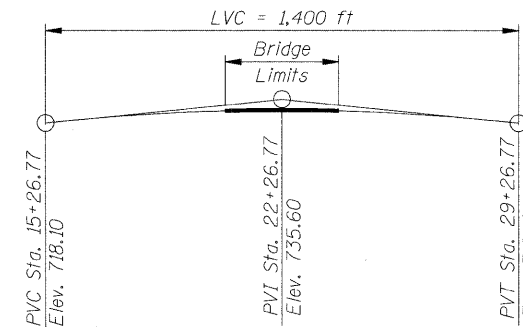
EXP 11-30-2010

DATE 7-7-2010



**ELEVATION**

(Looking North)

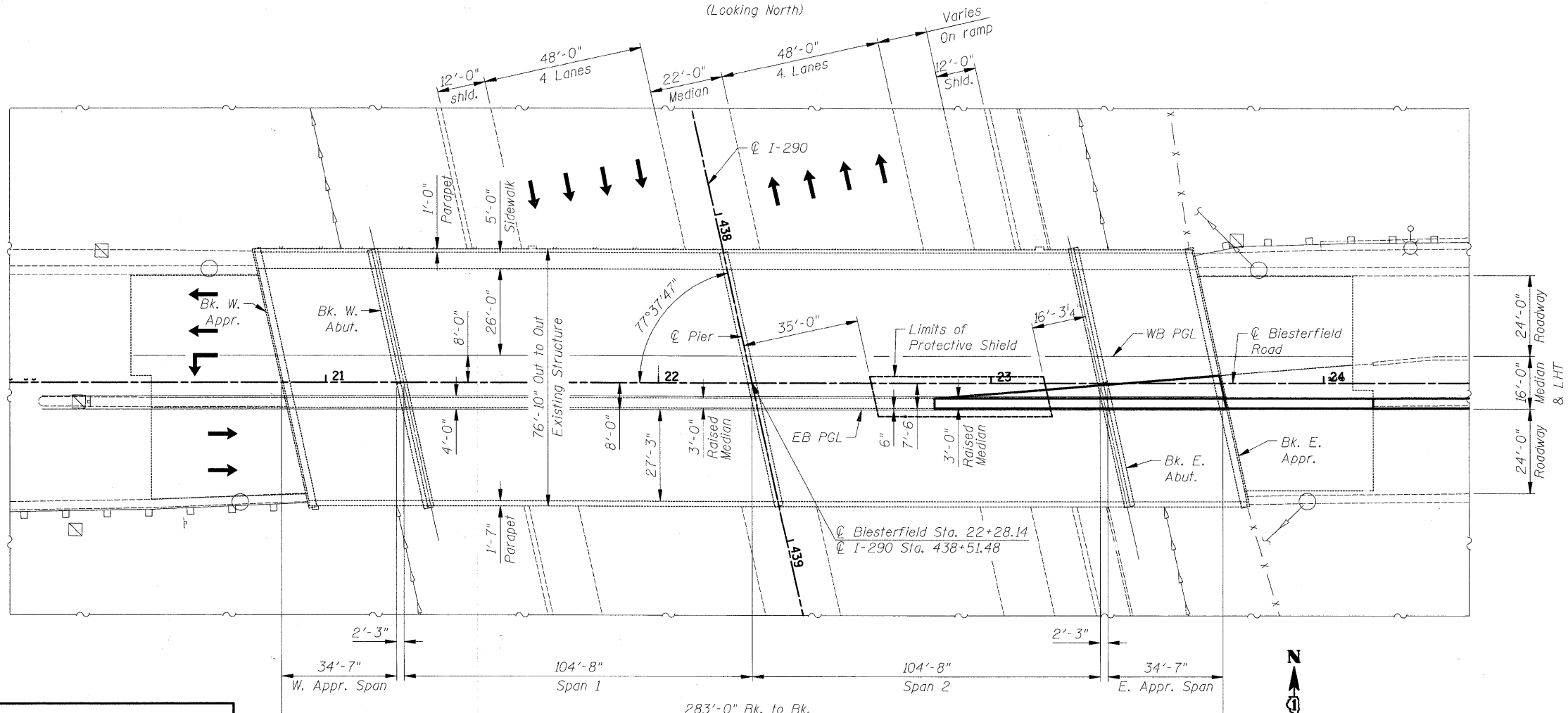


**PROFILE GRADE LINE  
BIESTERFELD ROAD**

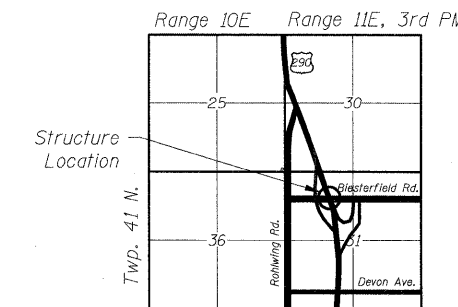
**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications

**DESIGN STRESSES**  
FIELD UNITS

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



**PLAN**



**LOCATION SKETCH**

S1 OF S5

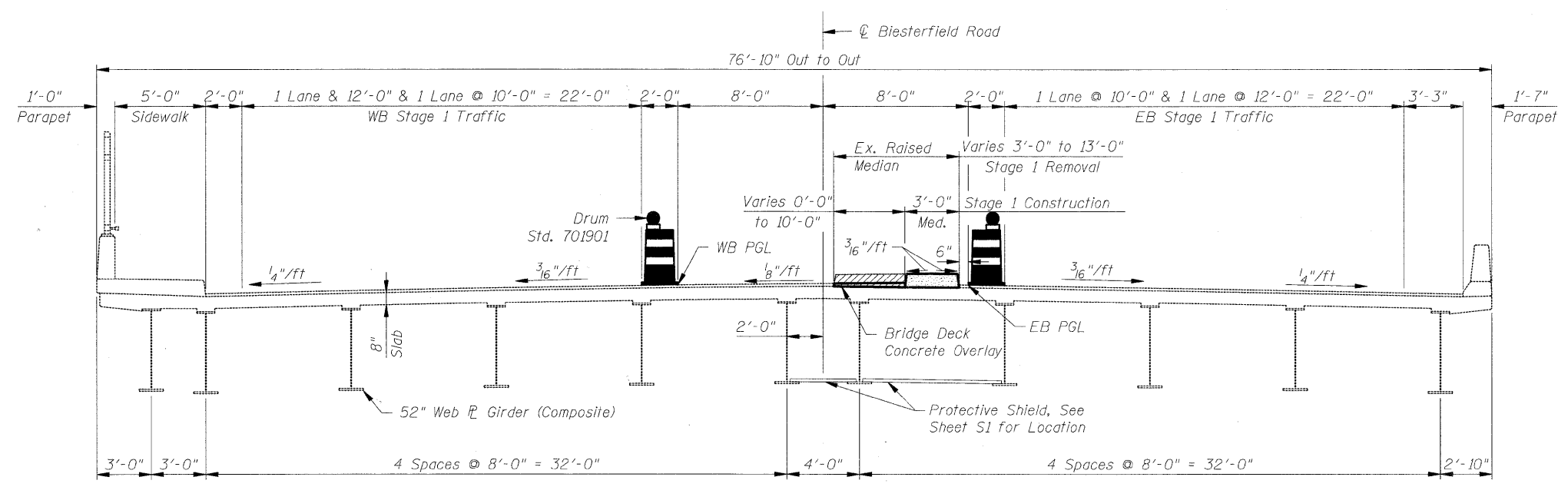
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
F.A.U. 1339 BIESTERFELD ROAD OVER I-290  
SECTION 09-00054-00-CH  
COOK COUNTY  
STATION 22+28.14, STRUCTURE NO. 016-0960  
Scale: None  
Date: July 7, 2010  
By: M. Lange  
Checked By: G. Hatlestad

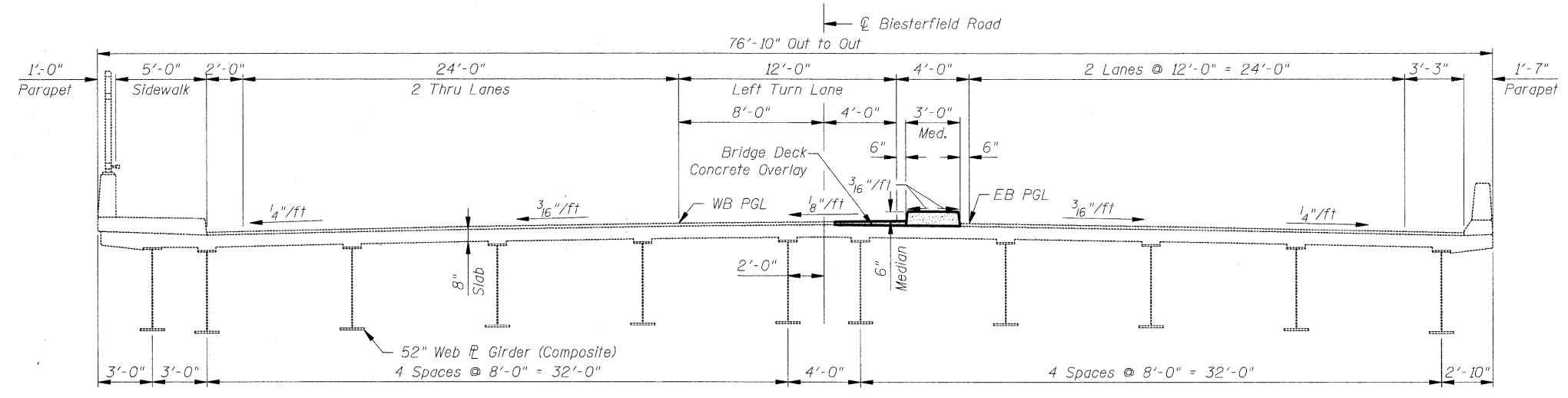


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 1339	09-00054-00-CH	COOK	BB	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - ARA-M-REBISGEM		

Contract # 63505



**STAGE 1 CONSTRUCTION**  
(Looking East)



**FINAL CROSS SECTION**  
(Looking East)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS  
F.A.U. 1339 BIESTERFIELD ROAD OVER I-290  
SECTION 09-00054-00-CH  
COOK COUNTY

STATION 22+28.14, STRUCTURE NO. 016-0960  
Scale: None  
Date: July 7, 2010

By: M. Lange  
Checked By: G. Hatlestad

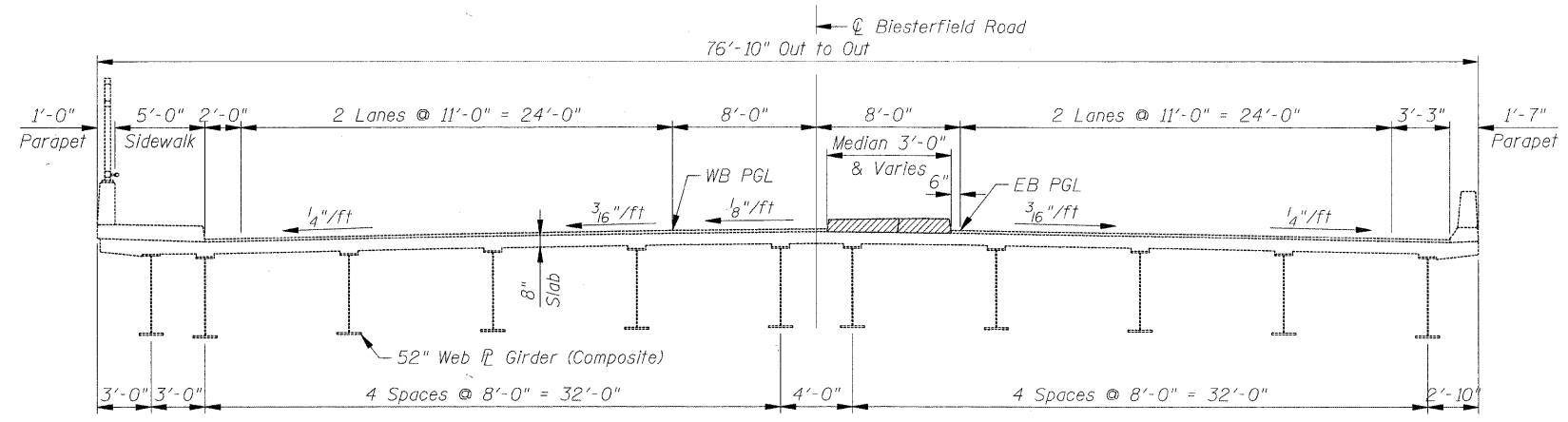
**CIVILTECH**

450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

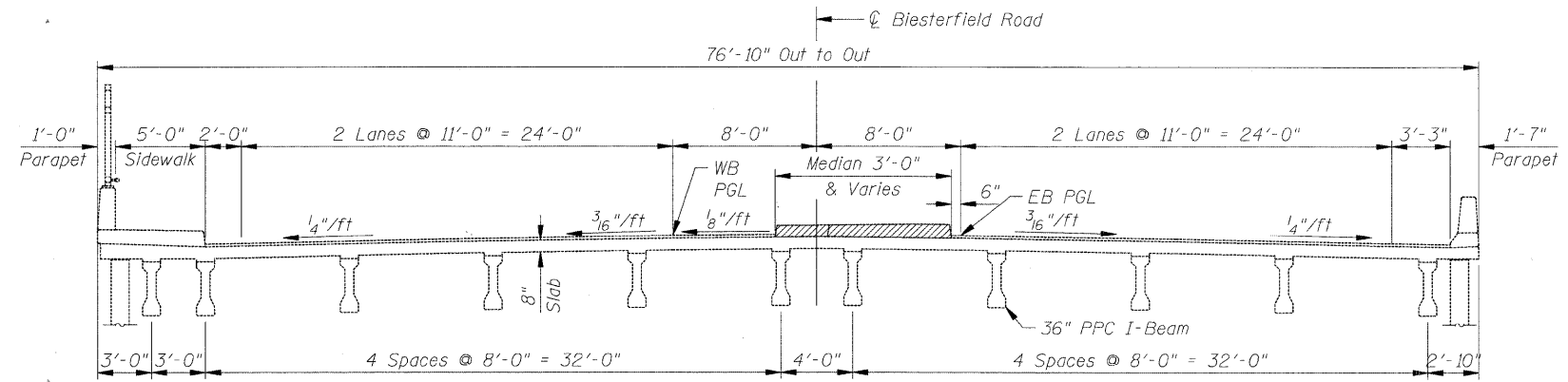
7/7/2010 12:40:06 AM J:\2349\road\Struct\02\_Stage1\_Constr.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 1339	09-00054-00-CH	COOK	88	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - ARA-M-REBISB		

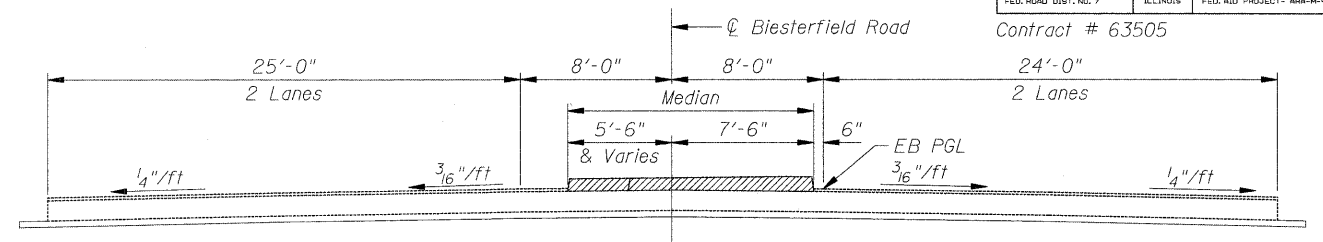
Contract # 63505



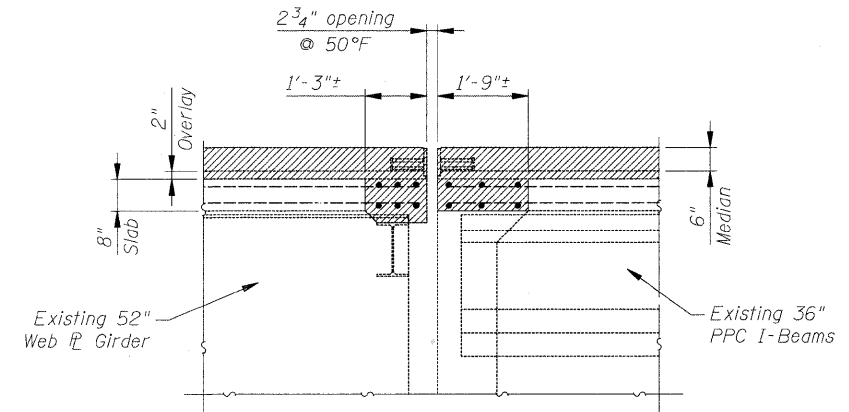
**CROSS SECTION**  
(Looking East)



**CROSS SECTION - APPROACH SPAN**  
(Looking East)

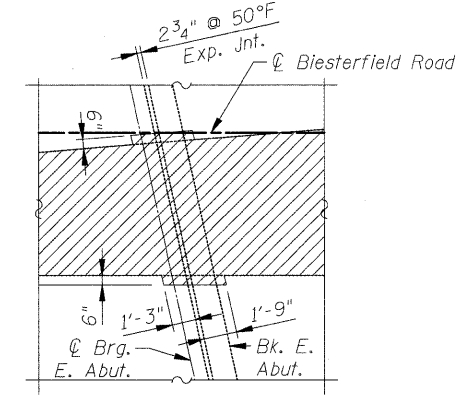


**CROSS SECTION - APPROACH PAVEMENT**  
(Looking East)



**SECTION A-A**

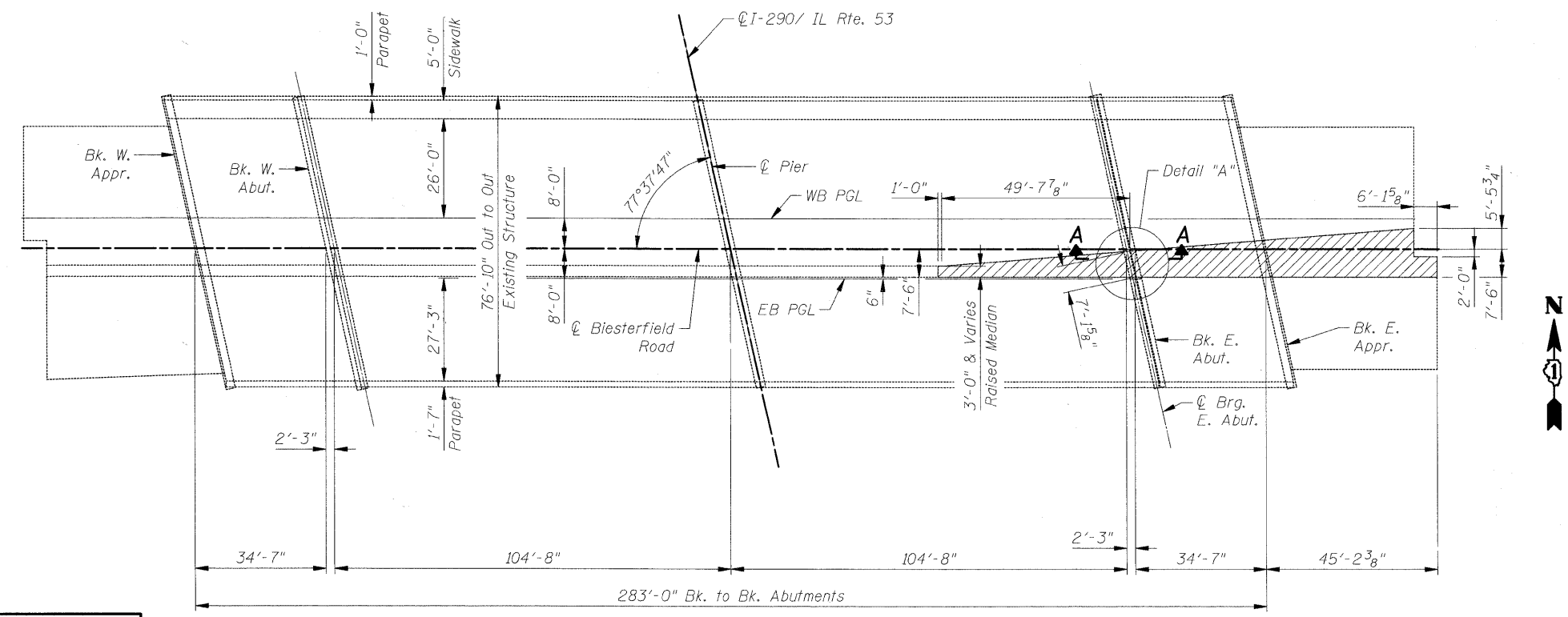
- Notes:
- Hatched area shall be removed & replaced to provide a 2 3/4" Right Angle Jt. @ 50°F.
  - Existing Reinforcement bars extending into the removal area shall be cleaned and incorporated into the New Concrete. Cost included with Concrete Removal.



**DETAIL "A"**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	26.5



**PLAN**

Indicates Limits of Concrete Removal

S3 OF S5

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL DETAILS  
F.A.U. 1339 BIESTERFIELD ROAD OVER I-290  
SECTION 09-00054-00-CH  
COOK COUNTY

STATION 22+28.14, STRUCTURE NO. 016-0960  
Scale: None  
Date: July 7, 2010

By: M. Lange  
Checked By: G. Hatlestad

**CIVILTECH**  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 1339	09-00054-00-CH	COOK	88	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - ARA-N-0003569		

Contract # 63505

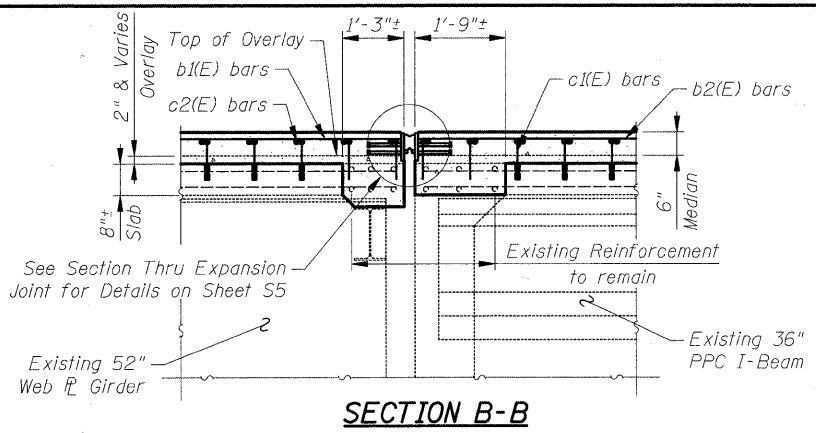
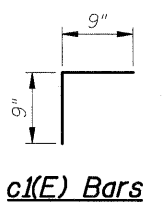
**BILL OF MATERIAL**  
(For Median)

Bar	No.	Size	Length	Shape
b <sub>1</sub> (E)	8	#5	26'-11"	—
b <sub>2</sub> (E)	8	#5	18'-6"	—
b <sub>3</sub> (E)	8	#5	23'-4"	—
c <sub>1</sub> (E)	264	#5	1'-6"	┐
c <sub>2</sub> (E)	132	#5	2'-8"	—

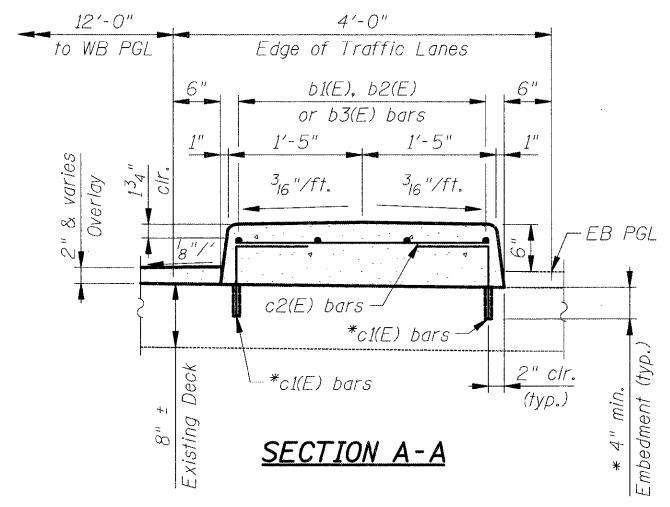
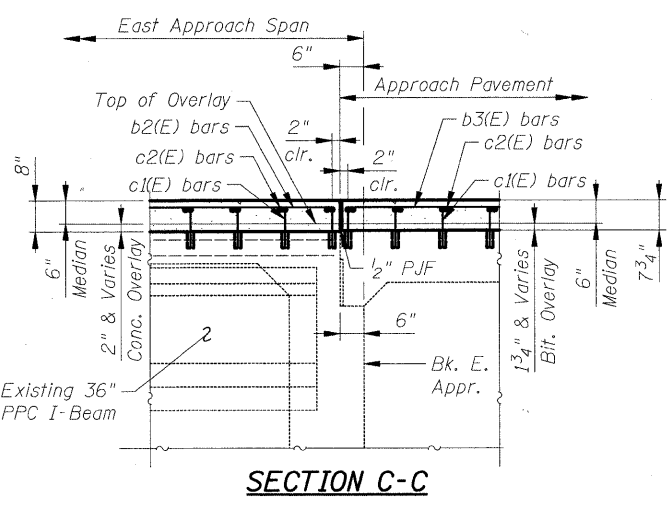
Item	Unit	Quantity
Concrete Superstructures	Cu. Yd.	10.8
Reinforcement Bars, Epoxy Coated	Pound	1,370
Bridge Deck Concrete Overlay	Sq. Yd.	31

Note:  
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

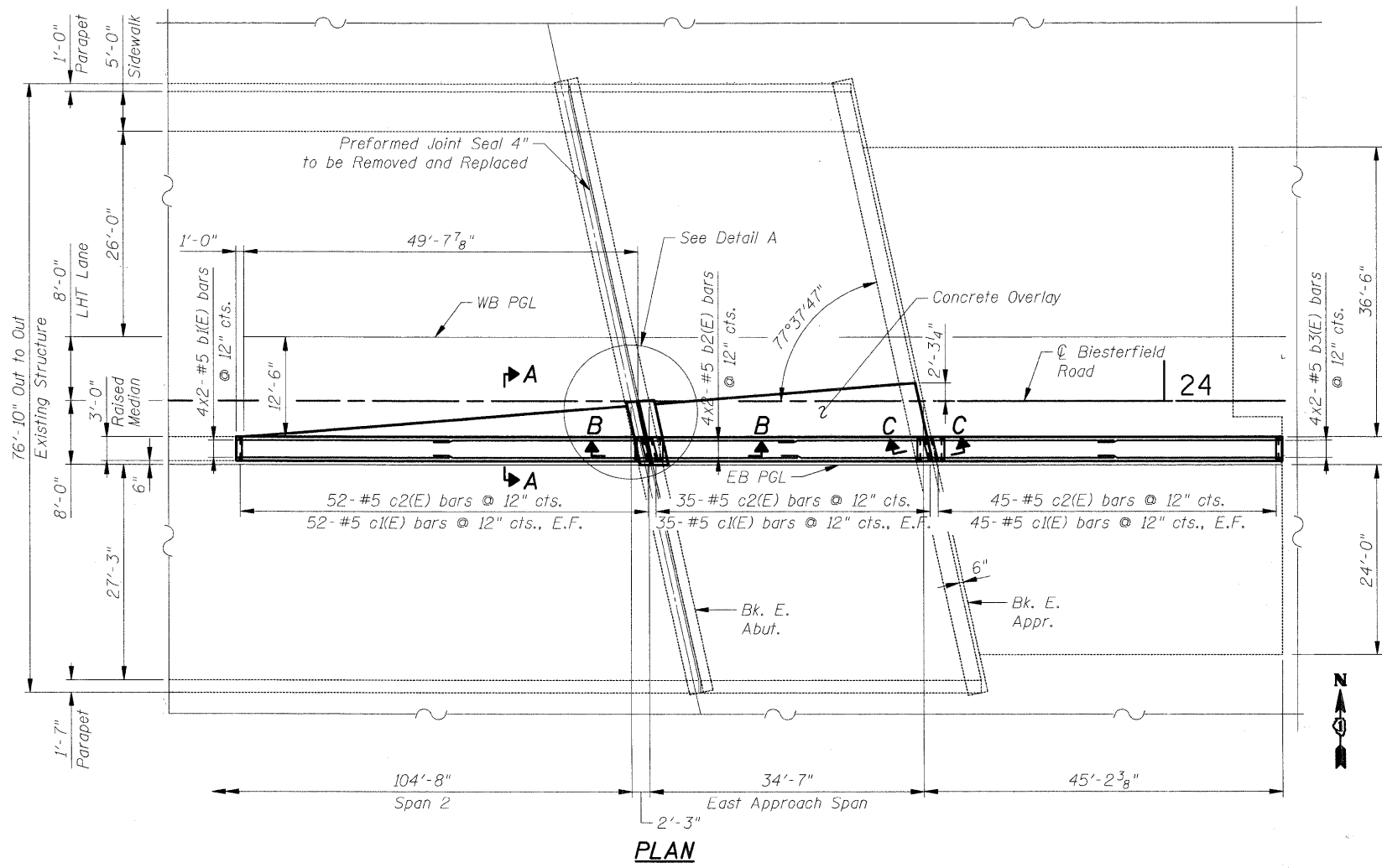
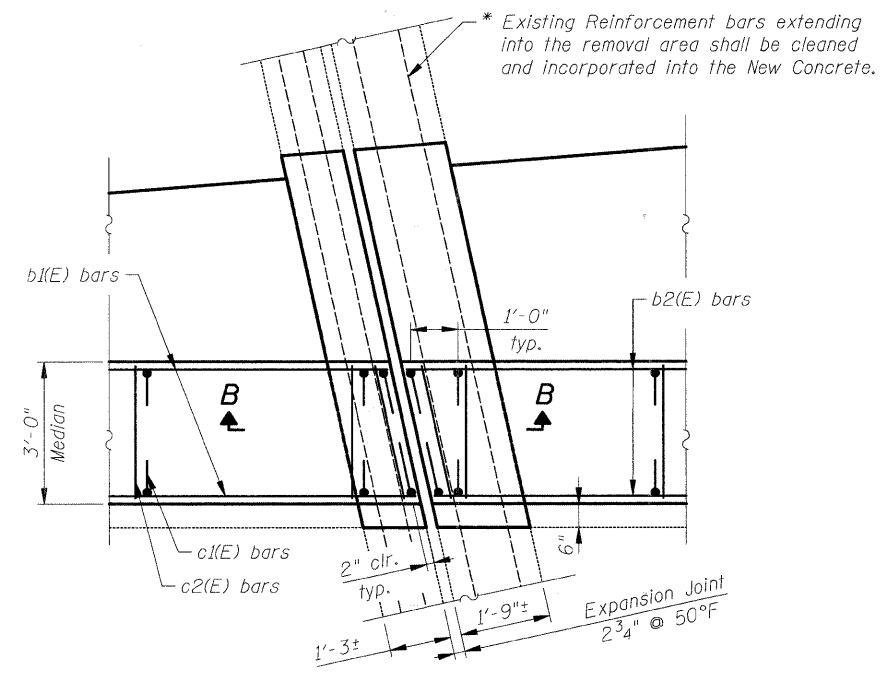
Minimum Bar Lap	
Bar Size	Class A
#5	1'-11"
#6	2'-7"



- Notes:
- Concrete shall be replaced to provide a 2 3/4" Right Angle Jt. @ 50°F.
  - Existing Reinforcement bars extending into the removal area shall be cleaned and incorporated into the New Concrete.



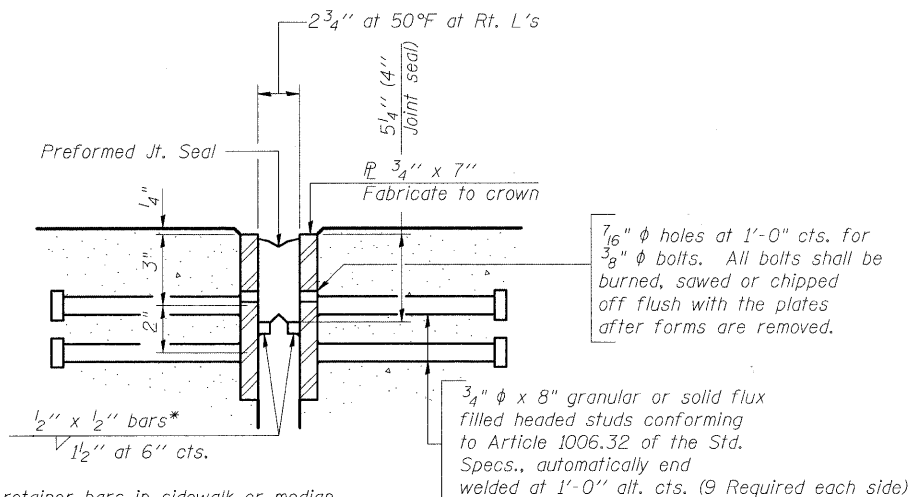
\* Drill and Epoxy grout #5 c1(E) bars according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.



S4 OF S5

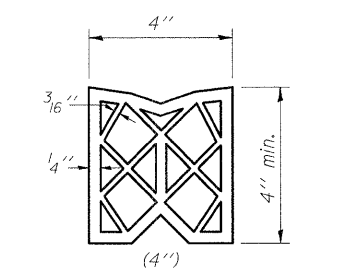
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DECK & APPROACH RAISED MEDIAN DETAILS  
F.A.U. 1339 BIESTERFIELD ROAD OVER I-290  
SECTION 09-00054-00-CH  
COOK COUNTY  
STATION 22+28.14, STRUCTURE NO. 016-0960  
Scale: None  
Date: July 7, 2010  
By: M. Lange  
Checked By: G. Hatlestad

**CIVILTECH**  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com



\*Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

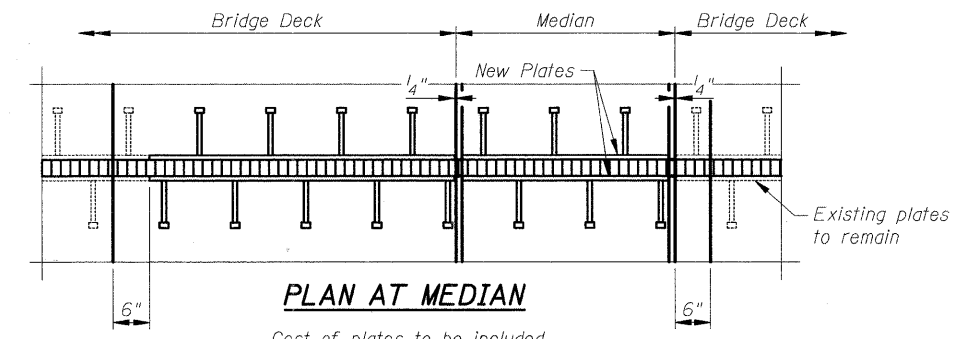
**SECTION THRU EXPANSION JOINT**  
(4" joint seals)



**PREFORMED JOINT SEAL**

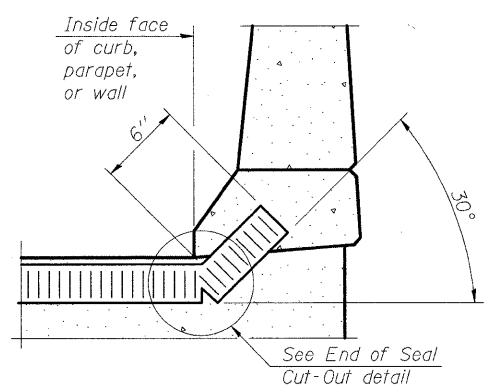
**NOTES**

- All structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Performed Joint Seal, 4".
- Maximum space between installed segments of steel plates and existing steel plates shall be 3/16". Seal space with silicone suitable for structural steel.

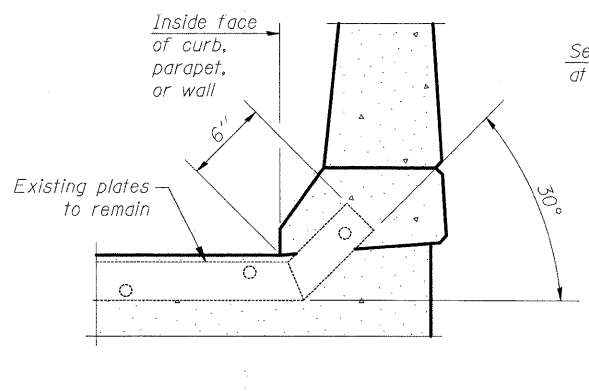


**PLAN AT MEDIAN**

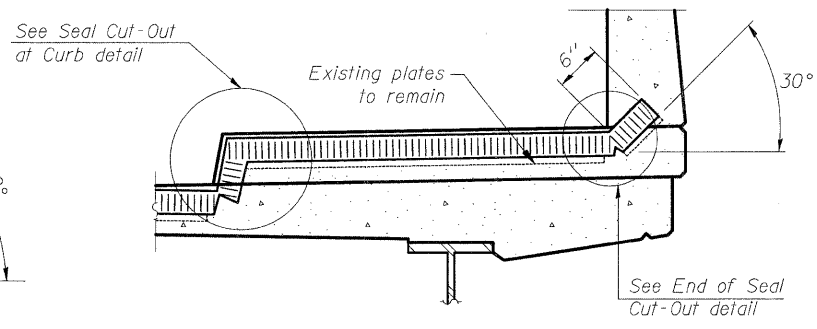
Cost of plates to be included with the Preformed Joint Seal, 4"



**AT CURB, PARAPET, OR WALL\*\***  
(Showing seal)

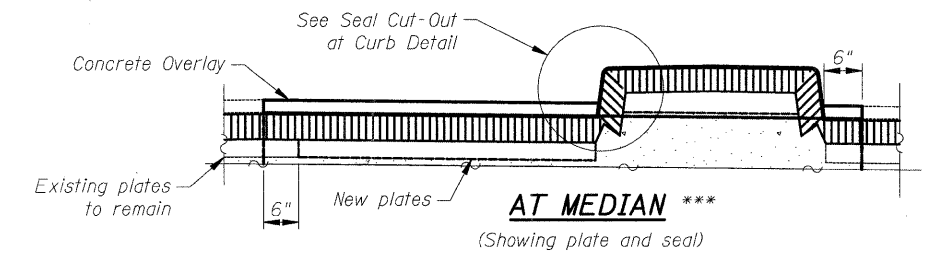


**AT CURB, PARAPET, OR WALL\*\***  
(Showing plate)



**AT SIDEWALK\*\***  
(Showing plate and seal)

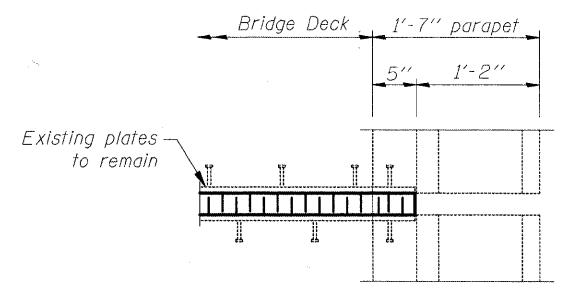
\*\* Verify in field and match existing



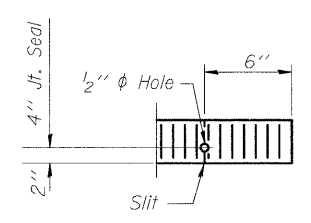
**AT MEDIAN\*\*\***  
(Showing plate and seal)

\*\*\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

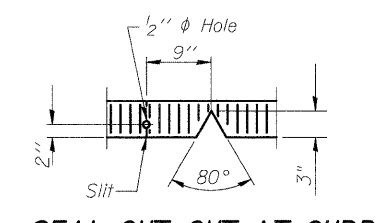
**TYPICAL END TREATMENTS**



**PLAN AT PARAPET**



**END OF SEAL CUT-OUT**

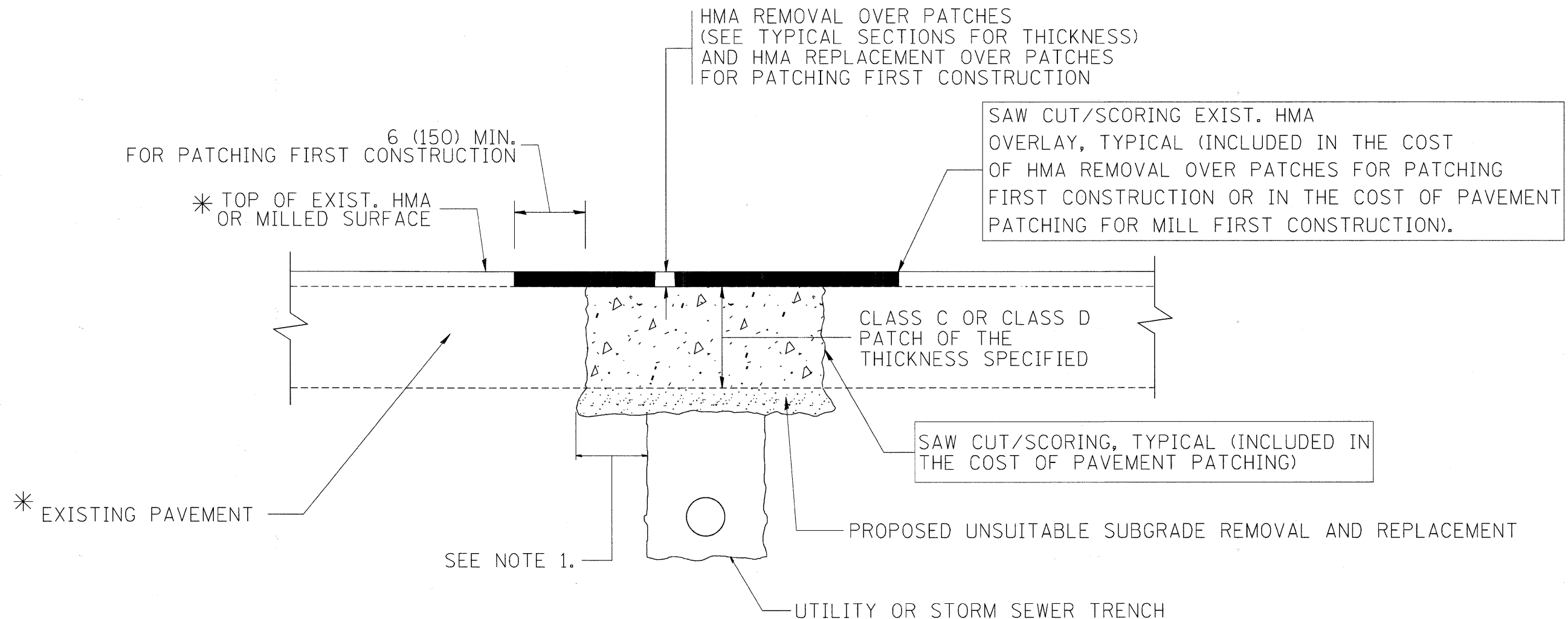


**SEAL CUT-OUT AT CURB**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Seal, 4"	Foot	79

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
EXPANSION JOINT DETAILS  
F.A.U. 1339 BIESTERFIELD ROAD OVER I-290  
SECTION 09-00054-00-CH  
COOK COUNTY  
STATION 22+28.14, STRUCTURE NO. 016-0960  
Scale: None  
Date: July 7, 2010  
By: M. Lange  
Checked By: G. Haltestad



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

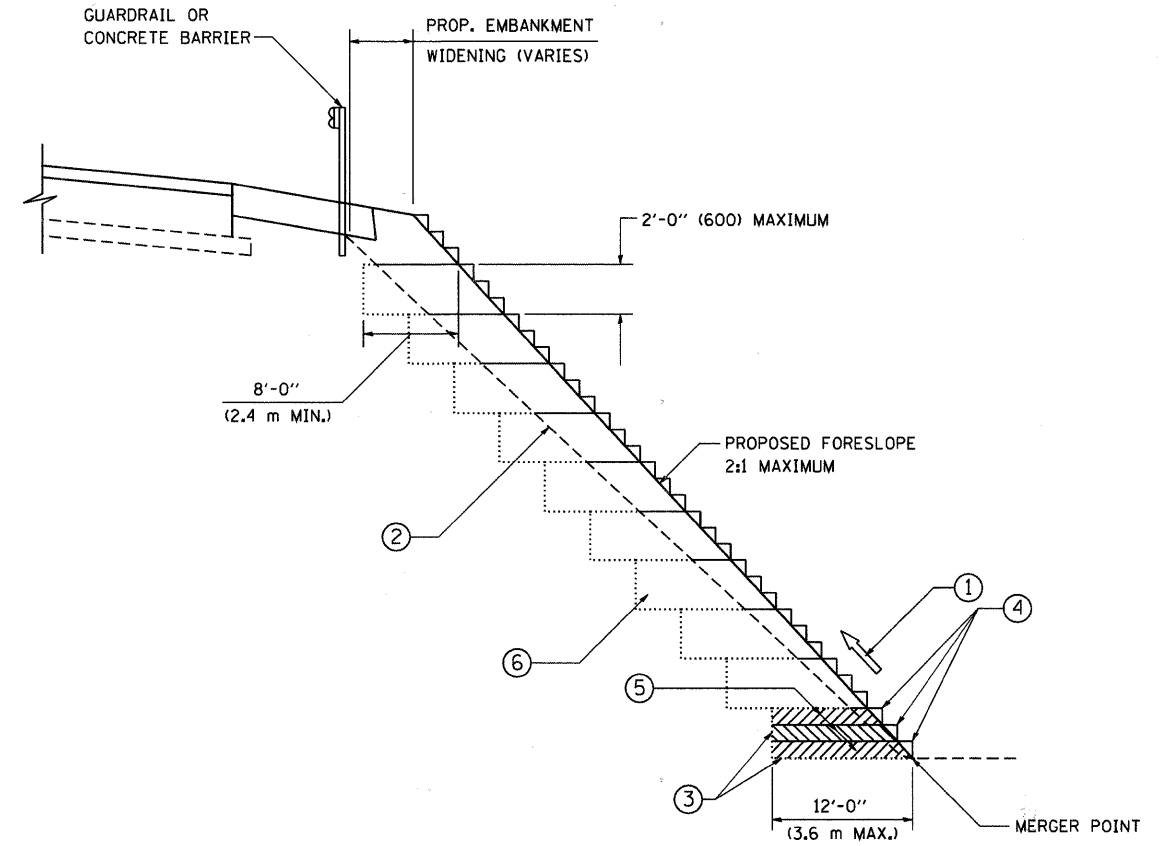
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\ba22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 60
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD400-04 (BD-22)</b>		CONTRACT NO. 63505	
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT							
			REVISED - K. ENG 10-27-08									



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

FILE NAME = W:\dststd\22-34\bd51.dgn	USER NAME = geglienobt	DESIGNED -	REVISED -
		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

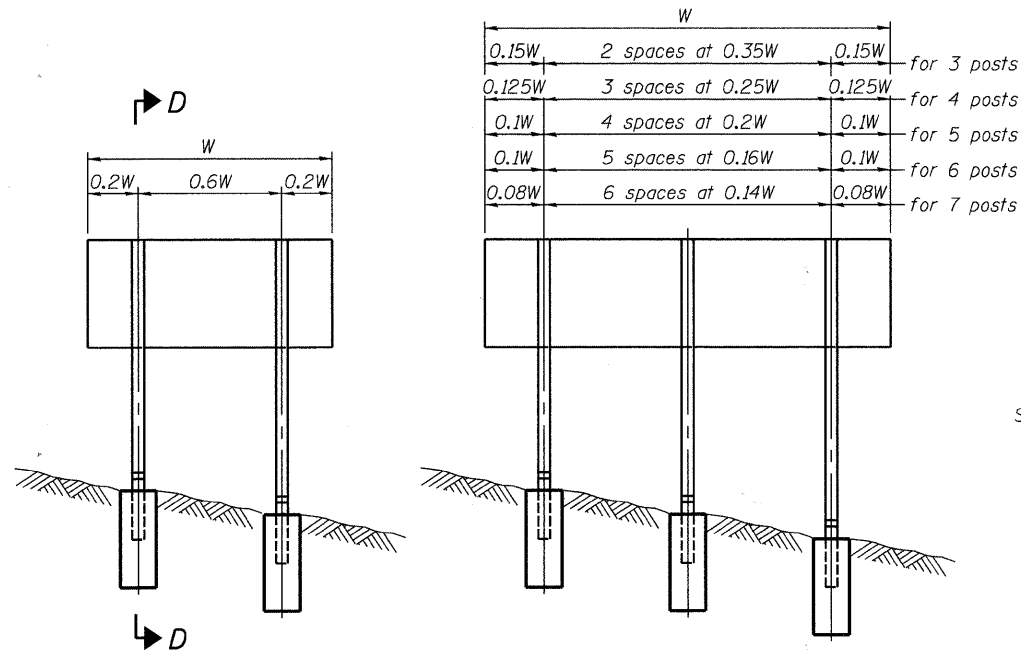
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL  
FOR EMBANKMENT WIDENING**

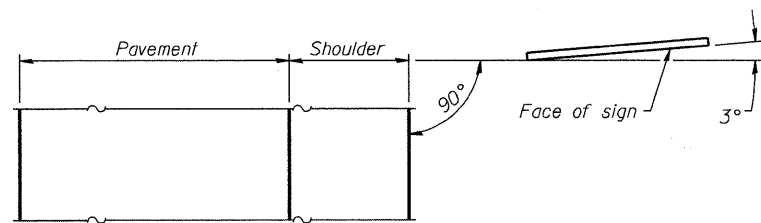
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE. 1339	SECTION 09-00054-00-CH	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 61
BD-51			CONTRACT NO. 63505	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

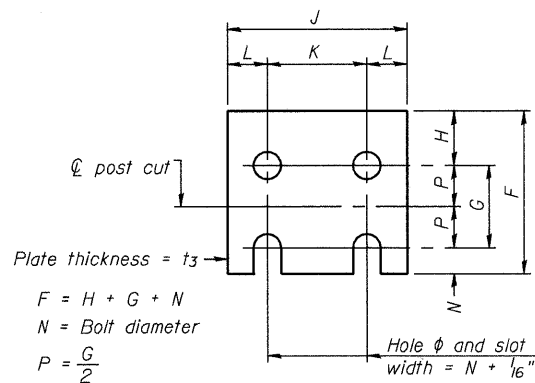
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ELEVATION

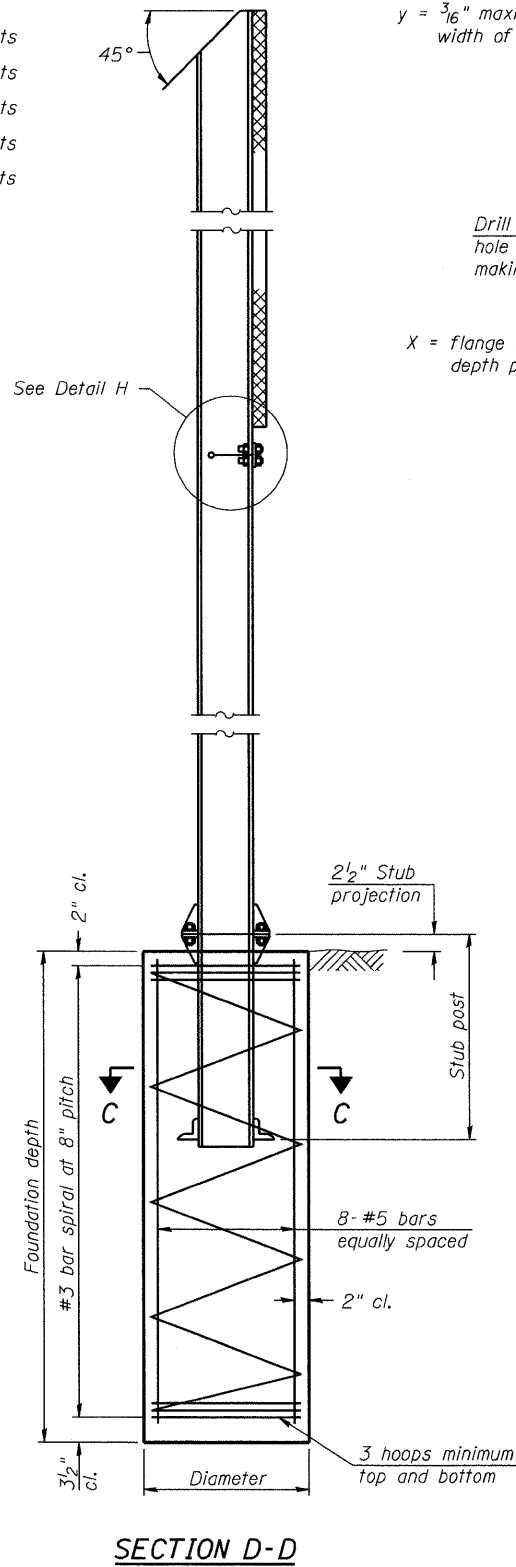


LOCATION SKETCH

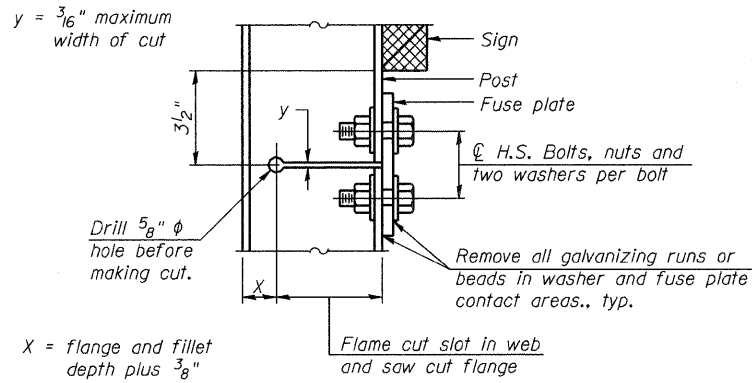


FUSE PLATE DETAIL  
(Install with notches down.)

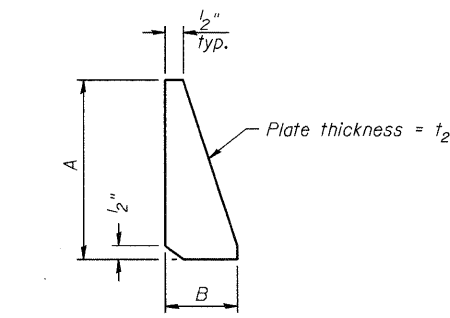
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



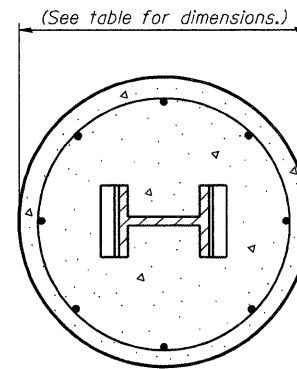
SECTION D-D



DETAIL H



STIFFENER PLATE DETAIL  
Diameter



SECTION C-C

GENERAL NOTES

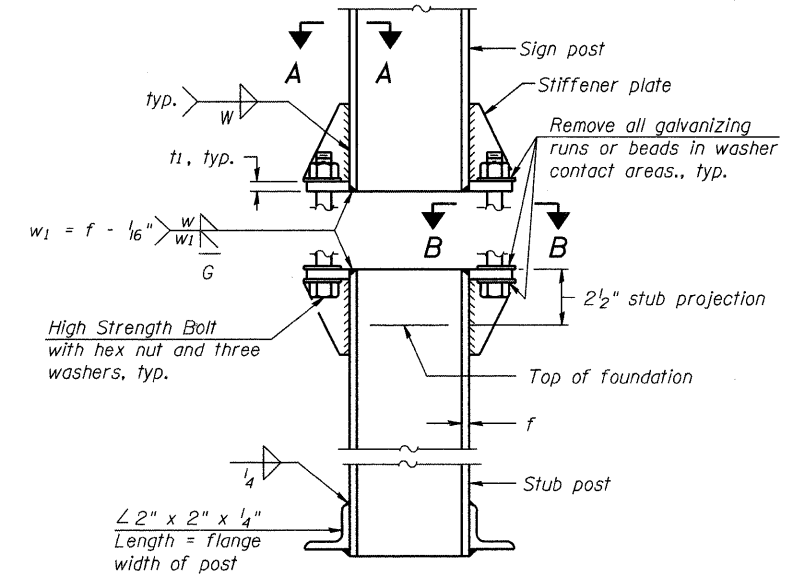
Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

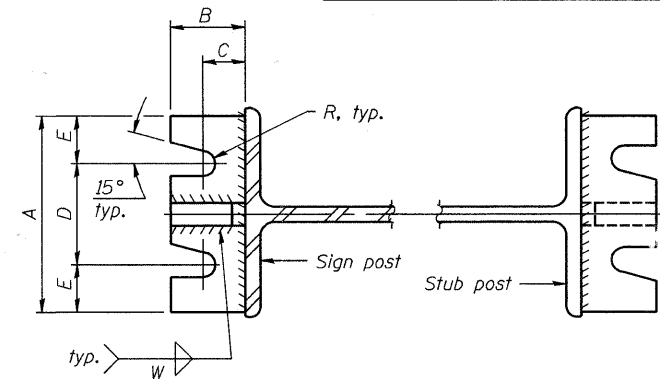
DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

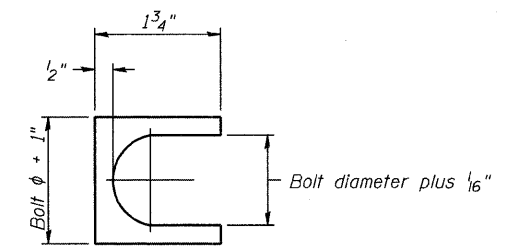


ELEVATION  
SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

BAW-A-1

12-1-08

SHEET NO.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1339	09-00054-00-CH	CQOK	88	62
SHEETS	CONTRACT NO. 63505				
	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(569)				

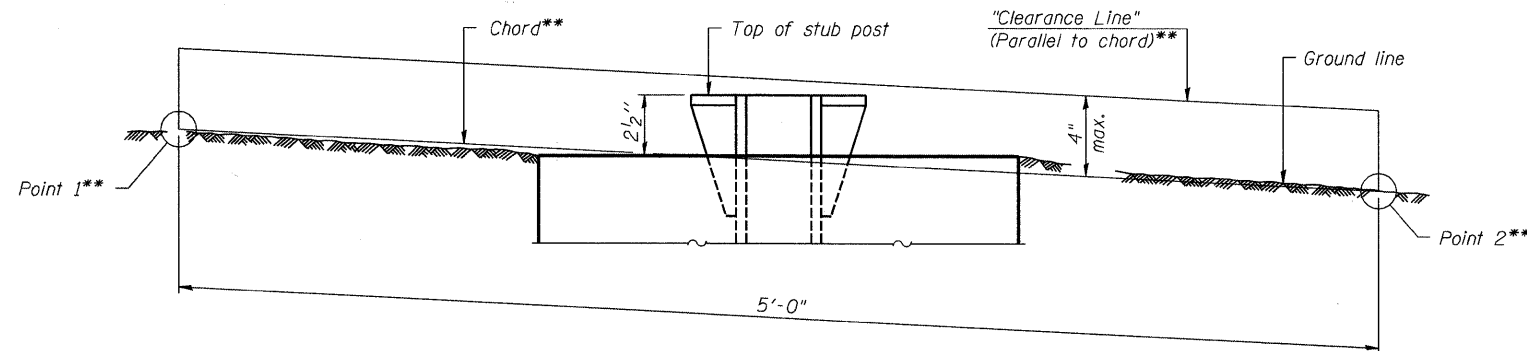


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	*Minimum Depth	Concrete (1) (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	1 1/4"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	1 1/4"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	1 1/4"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	1 1/4"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	1 1/4"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	1 1/4"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION  
GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

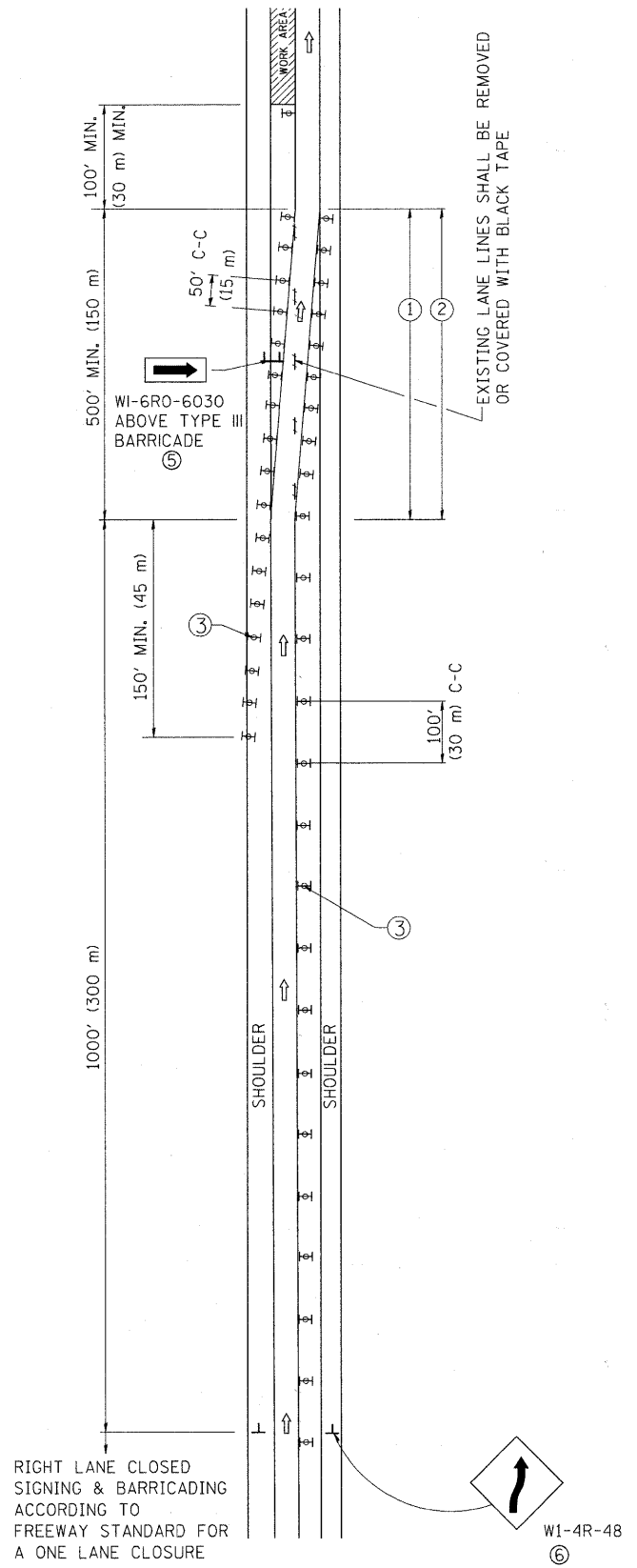
- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

<b>BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES</b>					
SHEET NO.	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1339	09-00054-00-CH	COOK	88	63
CONTRACT NO. 63505					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(569)					

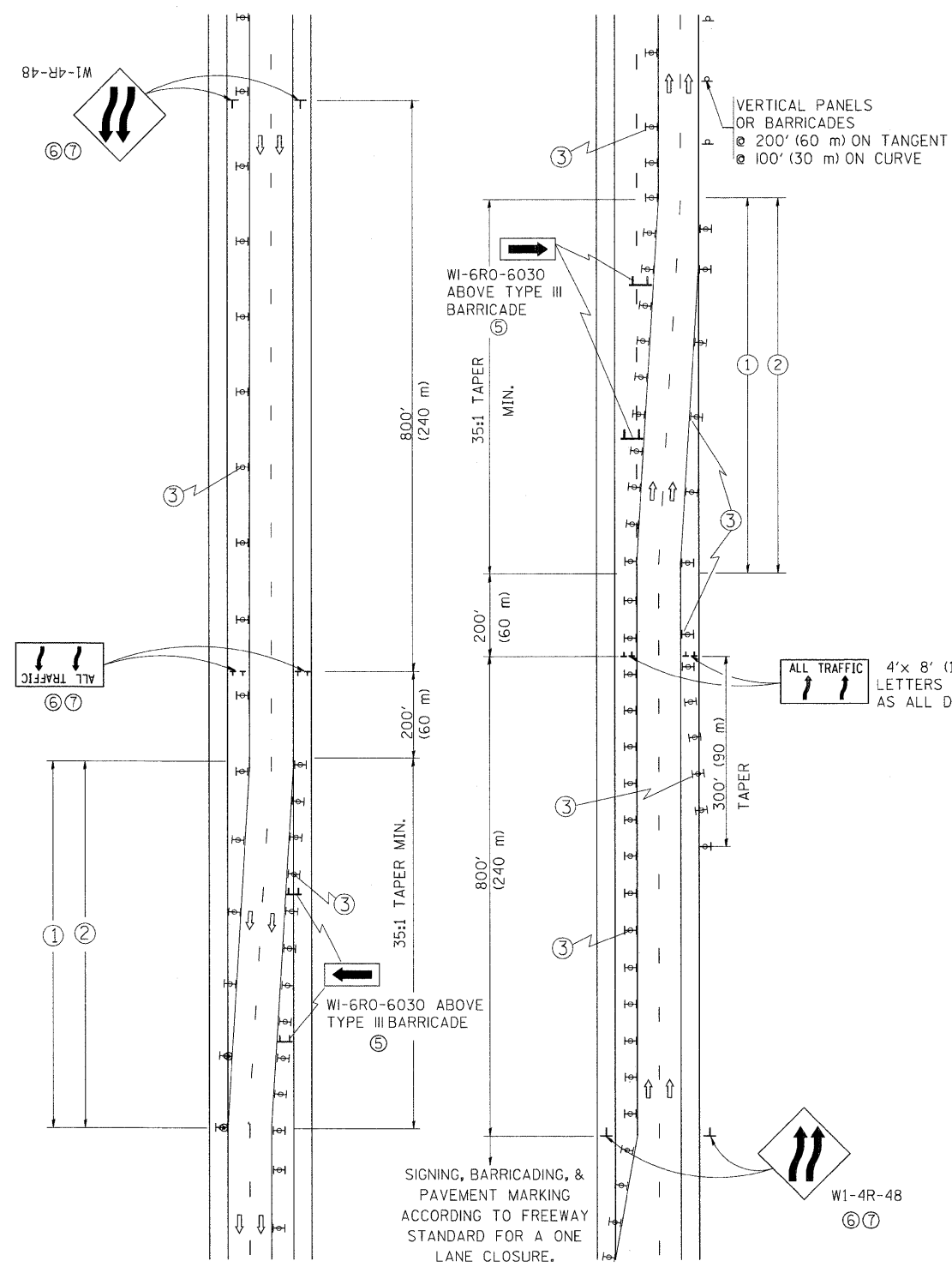
DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

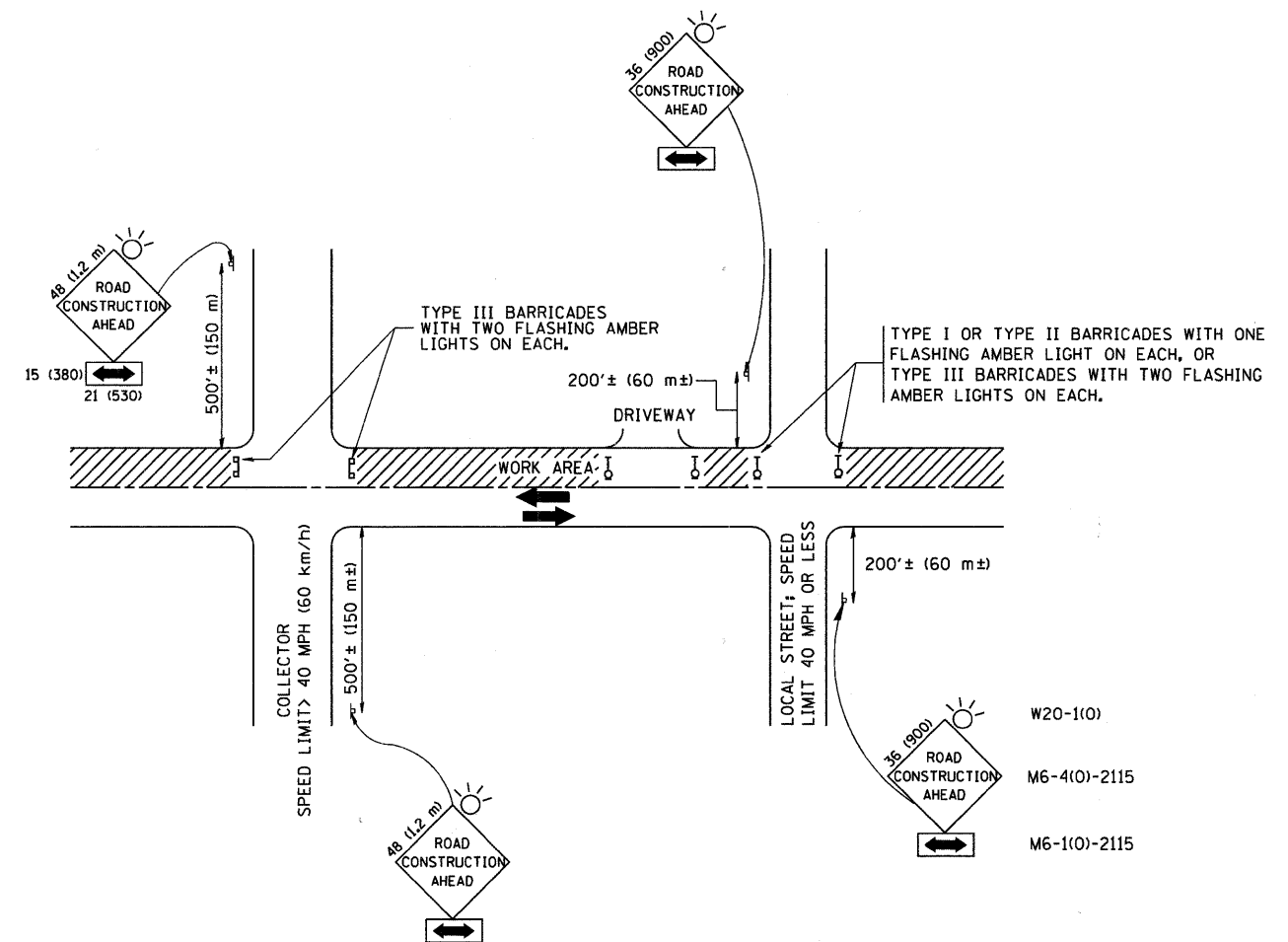
- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
  - WORK AREA
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\distatd\22x34\to09.dgn	USER NAME = lajse	DESIGNED - DWS	REVISED - JAF 01-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>		F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - JAF 02-06		1339	09-00054-00-CH	COOK	88	64		
	PLOT DATE = 1/26/2010	CHECKED -	REVISED - SPB 01-07		<b>TC-09</b>		CONTRACT NO. 63505		FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT M-9003(569)	
		DATE - 02-87	REVISED - SPB 12-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			



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.

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

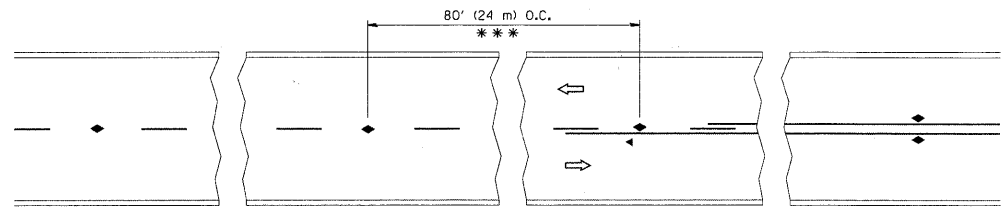
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	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

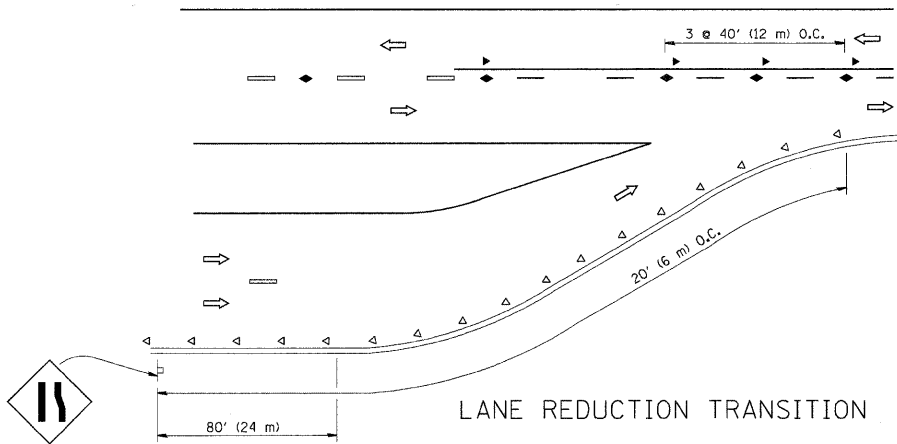
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	65
TC-10			CONTRACT NO. 63505	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT M-9003(569)				

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

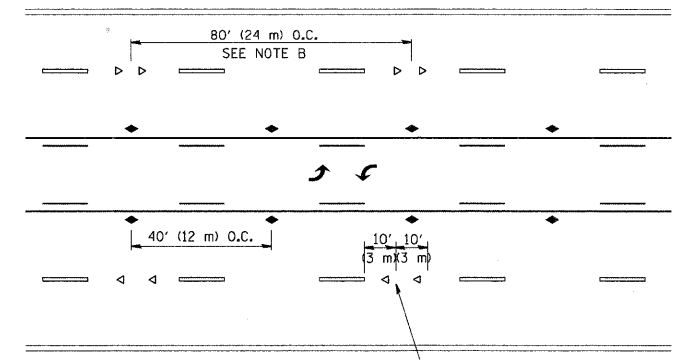


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

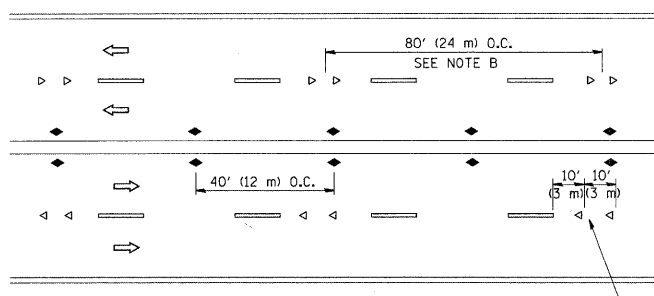
TWO-LANE/TWO-WAY



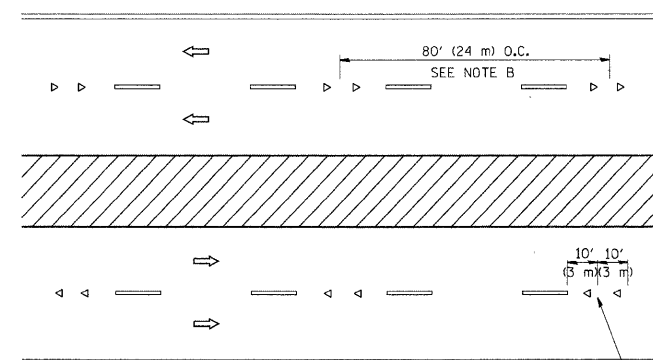
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

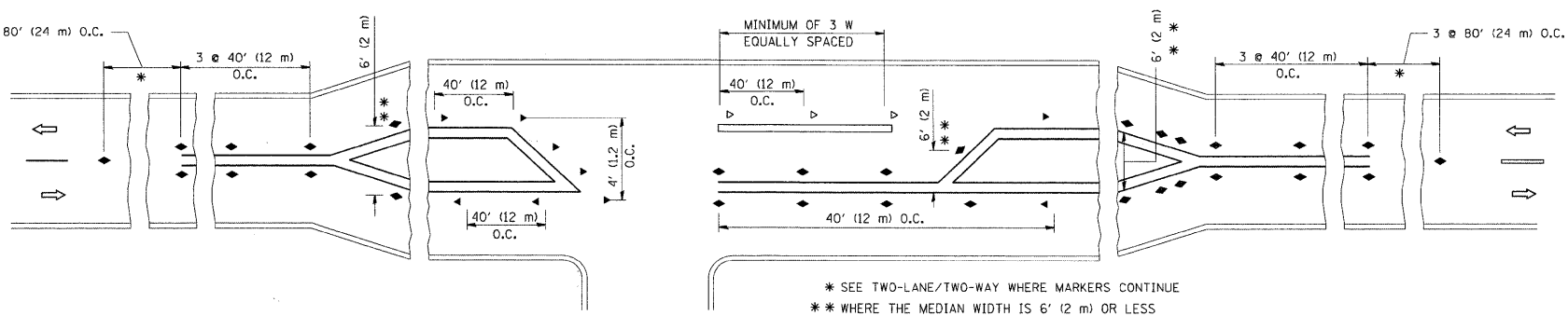
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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

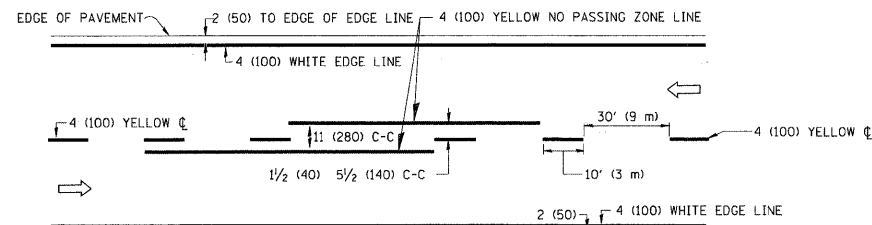


LEFT TURN

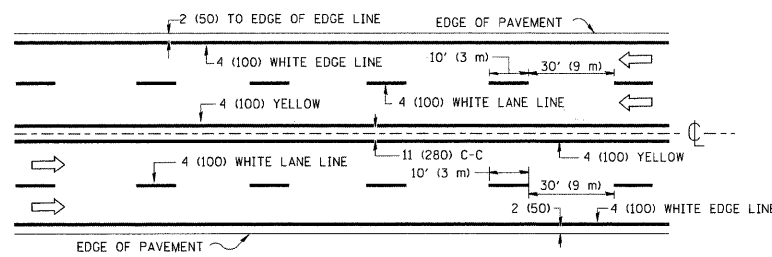
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

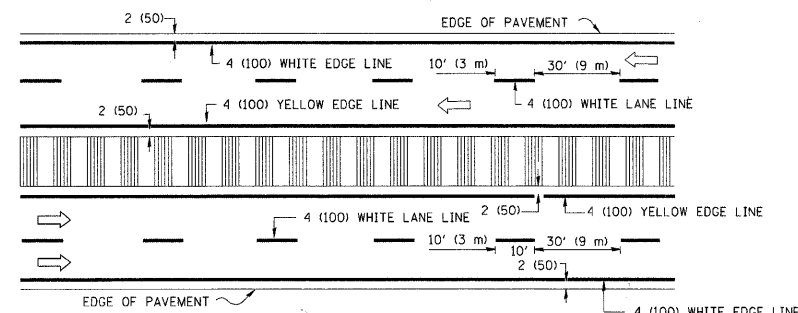
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	PLLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-11		CONTRACT NO. 63505	
PLLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09					FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-9003(569)				



2-LANE ROADWAY



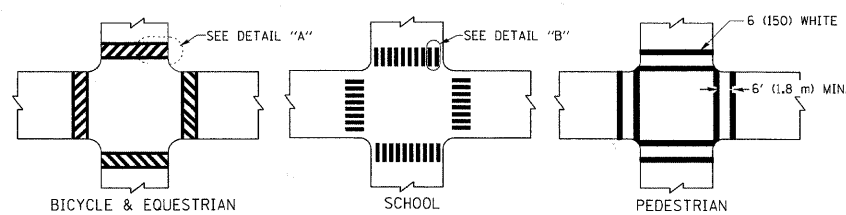
MULTI-LANE UNDIVIDED



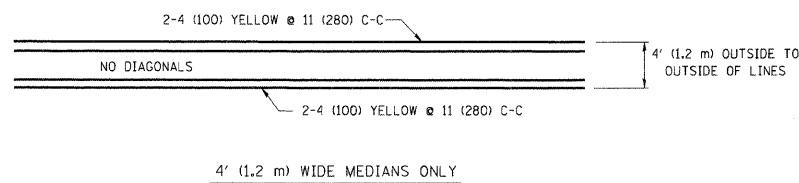
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

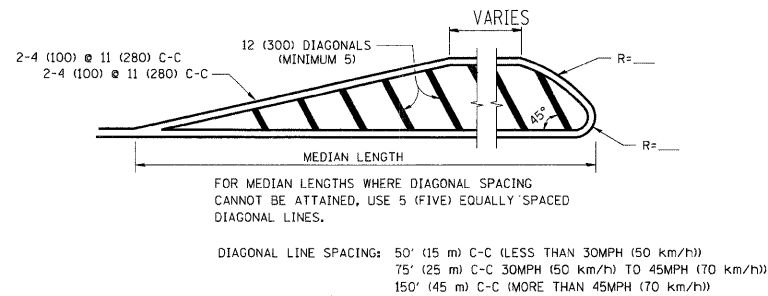
TYPICAL LANE AND EDGE LINE MARKING



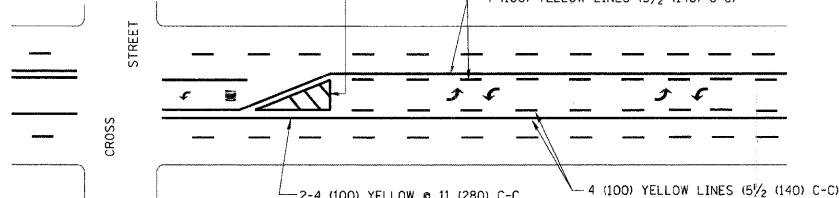
TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

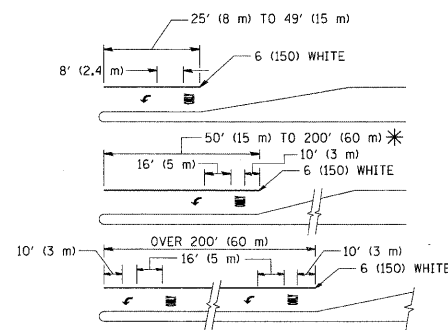


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

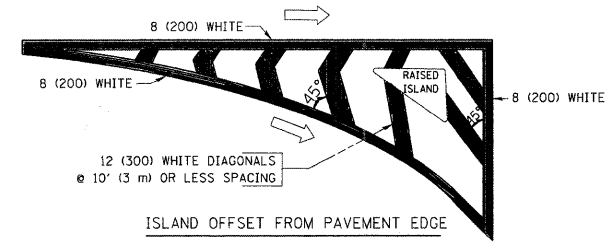


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

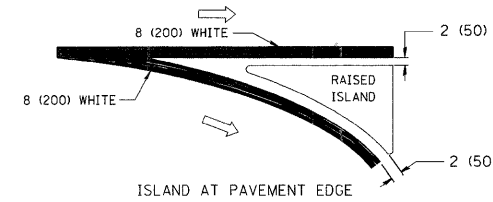
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78000! AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

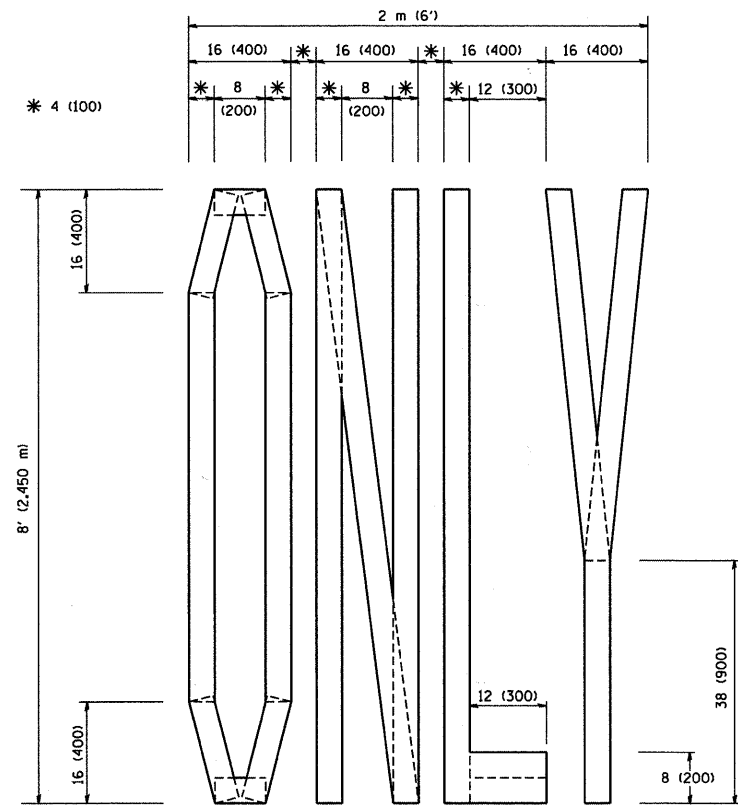
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

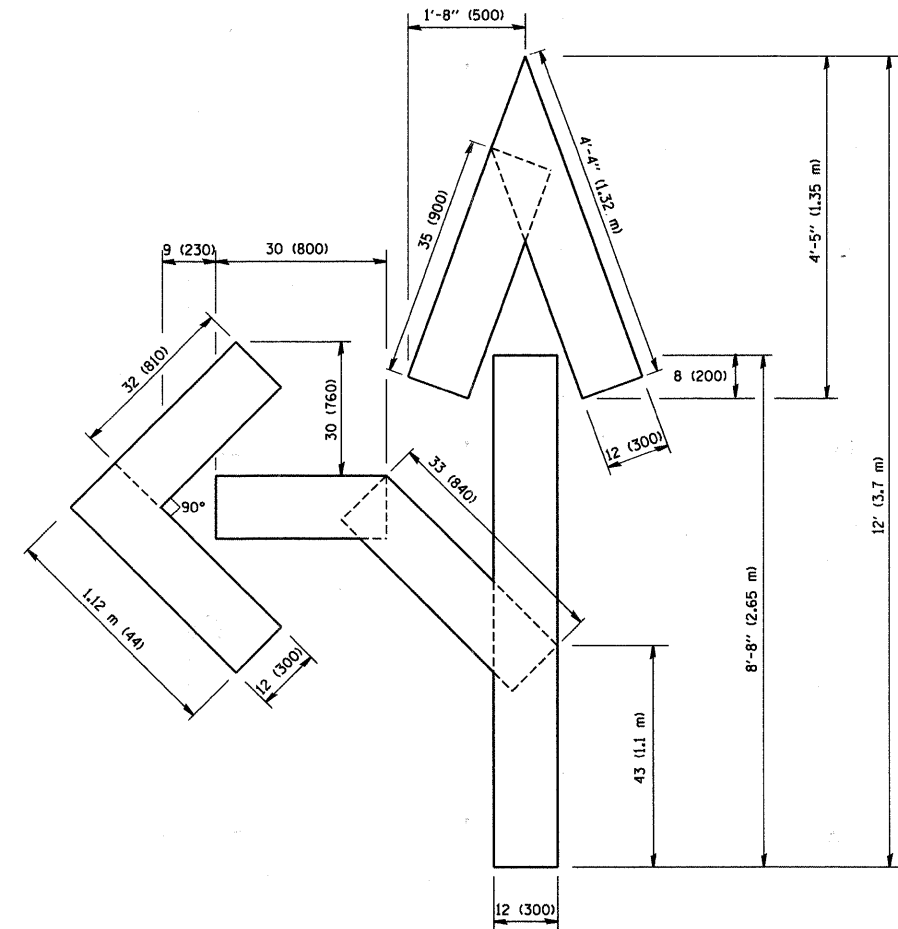
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

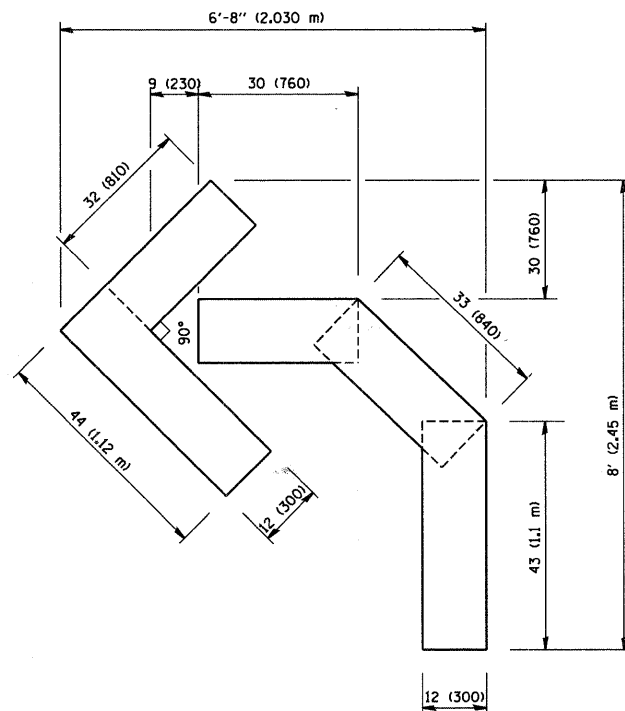
DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		1339	09-00054-00-CH	COOK	88	67
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	CONTRACT NO. 63505	
		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-9003(569)		



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

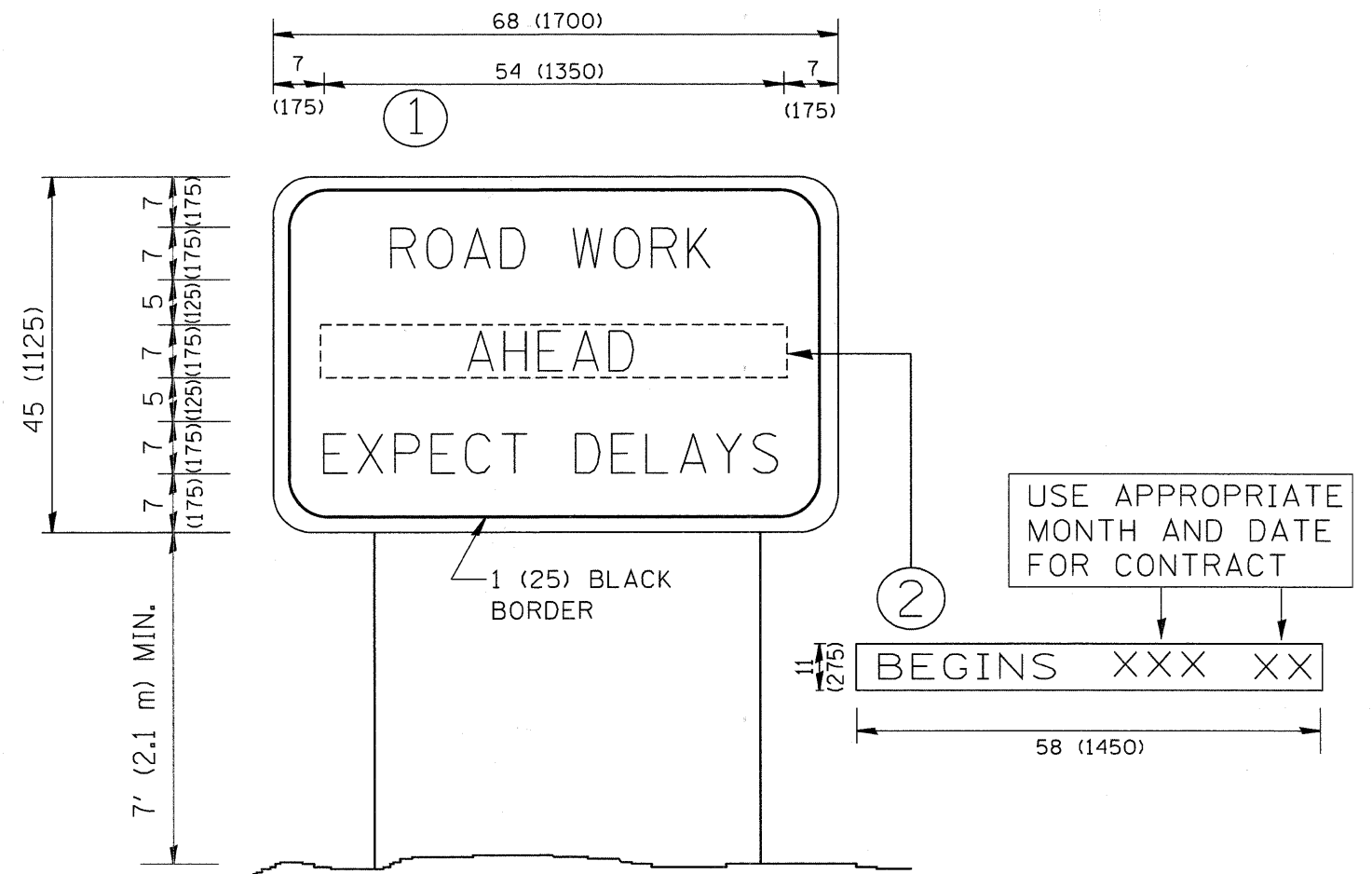
PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	68
TC-16			CONTRACT NO. 63505	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(569)				







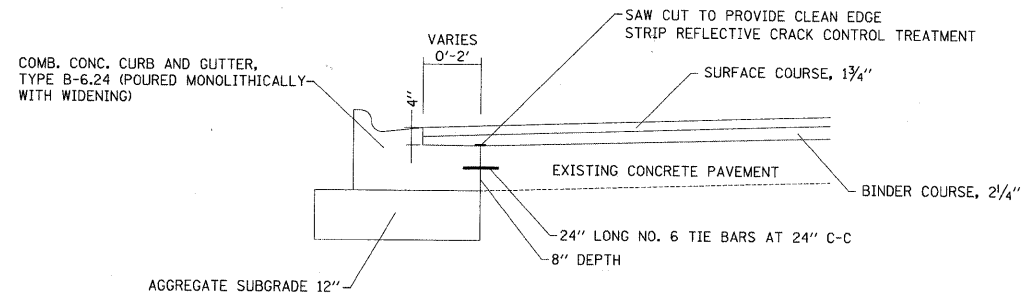
**NOTES:**

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

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

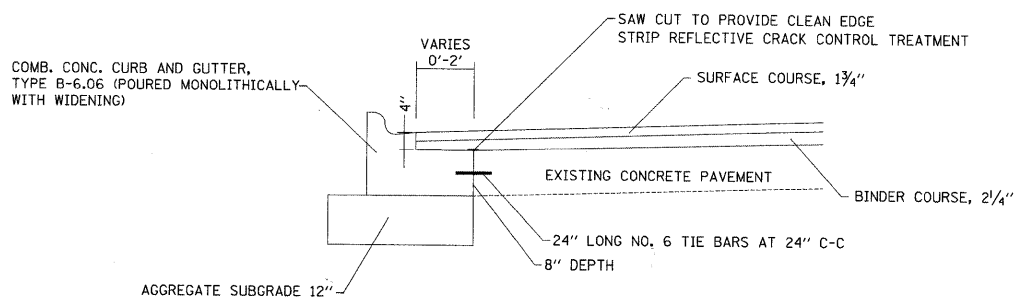
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		DATE -	REVISED - C. JUCIUS 01-31-07									

DATE	
BY	
PLAN	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
PLOTTED	
CHECKED	
BY	
DATE	
FILE NAME	

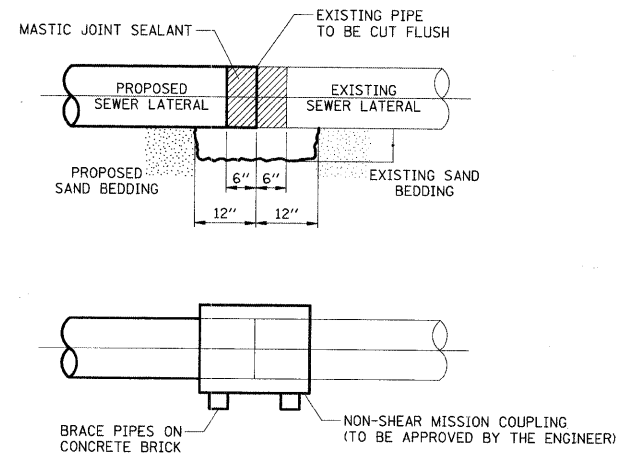


**COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24**  
AT LOCATIONS WHERE WIDENING IS 2' OR LESS

DATE	
BY	
PROFILE	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
PLOTTED	
CHECKED	
BY	
DATE	
FILE NAME	



**COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06**  
AT LOCATIONS WHERE WIDENING IS 2' OR LESS



**DETAIL A**  
NON-SHEAR MISSION COUPLING  
NOT TO SCALE

**CONSTRUCTION SEQUENCE**

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- INSTALL MISSION COUPLING.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- SUPPORT EACH PIPE END WITH CONCRETE BRICK.

**NOTES**

**CONSTRUCTION METHODS**

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTIONS TO EXISTING SEWER OF 27" OR SMALLER SEE DETAIL "A".

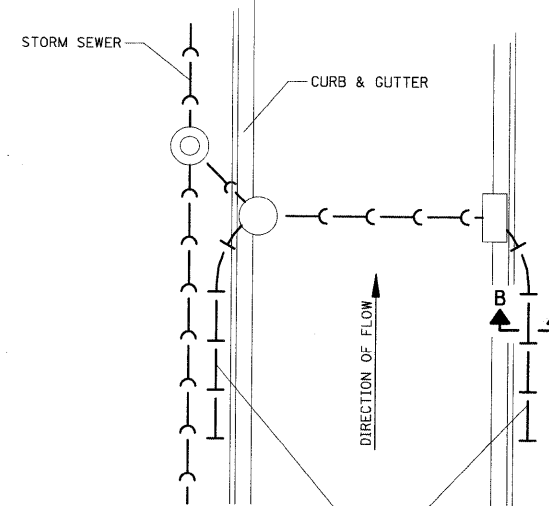
IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

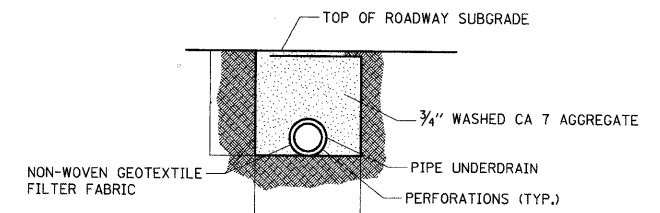
CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS BEING CONSTRUCTED.



25' OF 4" PIPE UNDERDRAIN TO BE INSTALLED AT CURB STRUCTURES WHERE SHOWN ON THE DRAINAGE AND UTILITY SHEETS  
**TYPICAL PLAN**



**SECTION B-B**

**GENERAL NOTES:**

- BOTH THE TRENCH AND DRAIN TILE SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FILTER FABRIC.
- WASHED AGGREGATE SHALL BE PLACED AROUND THE DRAIN TILE.
- HOLE SHALL BE DRILLED INTO STRUCTURE.
- HYDRAULIC CEMENT SHALL BE PLACED AROUND THE PIPE TO SEAL THE OPENING, BOTH INSIDE AND OUTSIDE THE STRUCTURE.

**PIPE UNDERDRAIN, FABRIC LINED TRENCH, 4"**

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DESIGNED -	BLG
DRAWN -	BLG
CHECKED -	DJK
DATE -	07-07-10
PLOT SCALE =	20,0000 ' / IN.
PLOT DATE =	7/7/2010

DESIGNED -	BLG
DRAWN -	BLG
CHECKED -	DJK
DATE -	07-07-10
REVISED -	
REVISED -	
REVISED -	
REVISED -	

DESIGNED -	BLG
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DATE -	07-07-10
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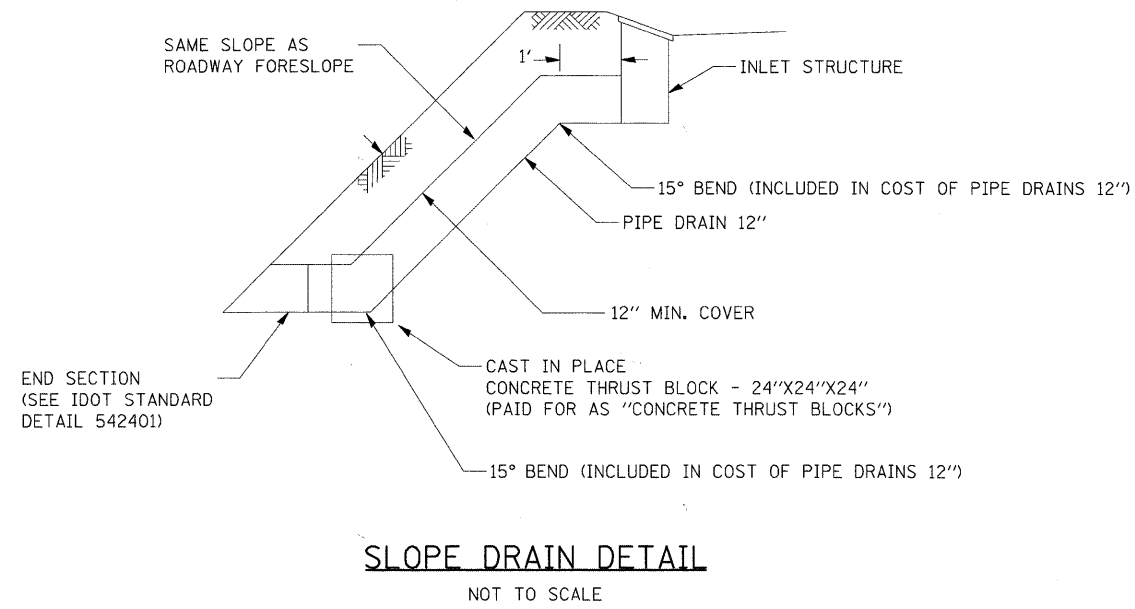
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
DETAILS**

SHEET NO. 1 OF 1 SHEETS

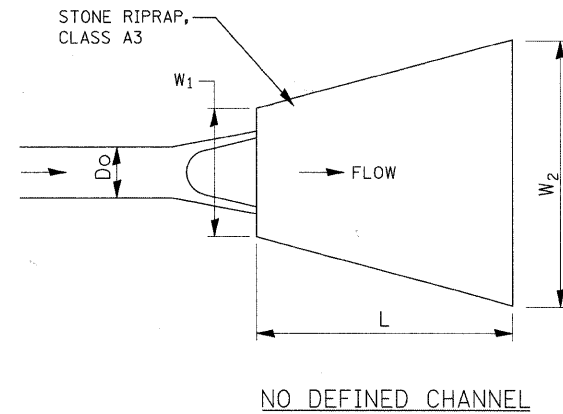
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	71
				CONTRACT NO. 63505
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT ARA-M-9003(569)				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	DATE	
	NOTE BOOK NO.	
	FILE NAME	



**SLOPE DRAIN DETAIL**  
NOT TO SCALE

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	DATE	
	NOTE BOOK NO.	
	FILE NAME	



STONE RIPRAP, CLASS A3 DETAILS									
STRUCTURE NUMBER	STA.	LOCATION OFFSET	PIPE SIZE (IN)	DEFINED CHANNEL	W <sub>1</sub> (FEET)	W <sub>2</sub> (FEET)	L (FEET)	THICKNESS (INCHES)	QUANTITY (SQ. YD.)
14	52+20	88.7' LT	12	NO	5	13	12	15	12

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USER NAME = djc

DESIGNED - BLG

REVISED -

PLOT SCALE = 20.0000' / IN.

DRAWN - BLG

REVISED -

PLOT DATE = 7/7/2010

CHECKED - DJK

REVISED -

DATE - 07-07-10

REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

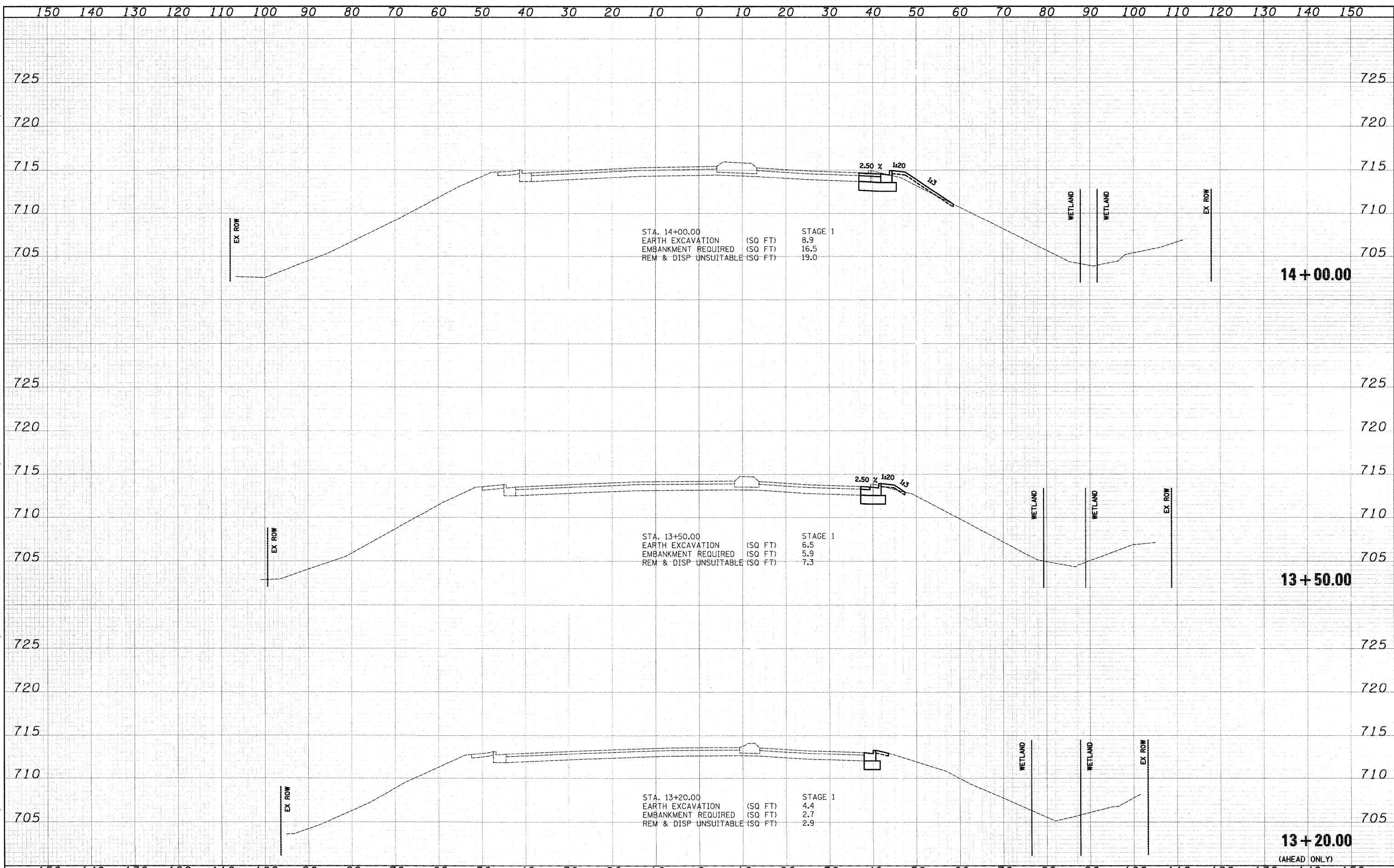
**IL ROUTE 53 (BIESTERFIELD ROAD) @ I-290  
DETAILS**

SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	72
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				

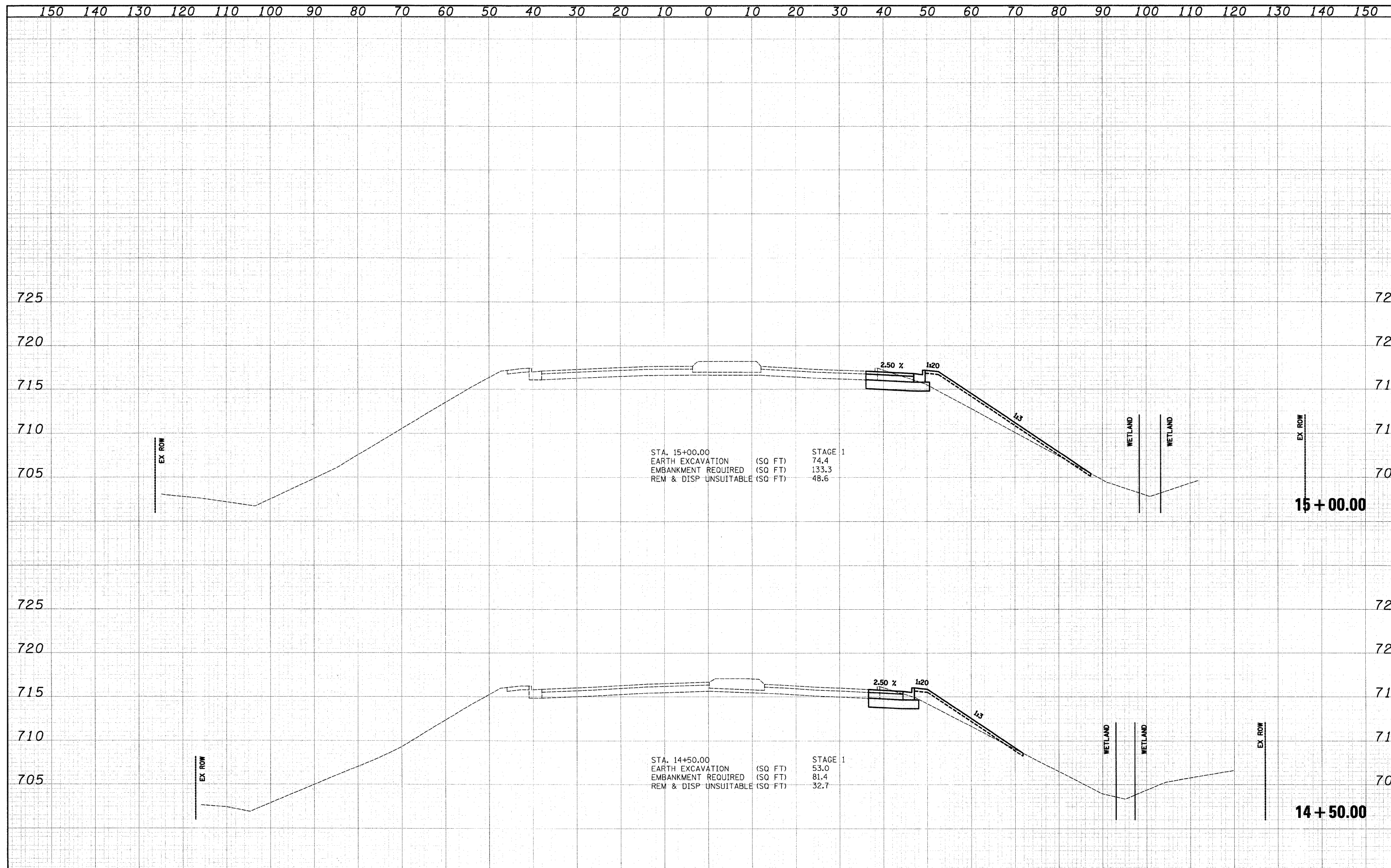
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FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
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STA. 15+00.00  
 EARTH EXCAVATION (SQ FT) 74.4  
 EMBANKMENT REQUIRED (SQ FT) 133.3  
 REM & DISP UNSUITABLE (SQ FT) 48.6  
 STAGE 1

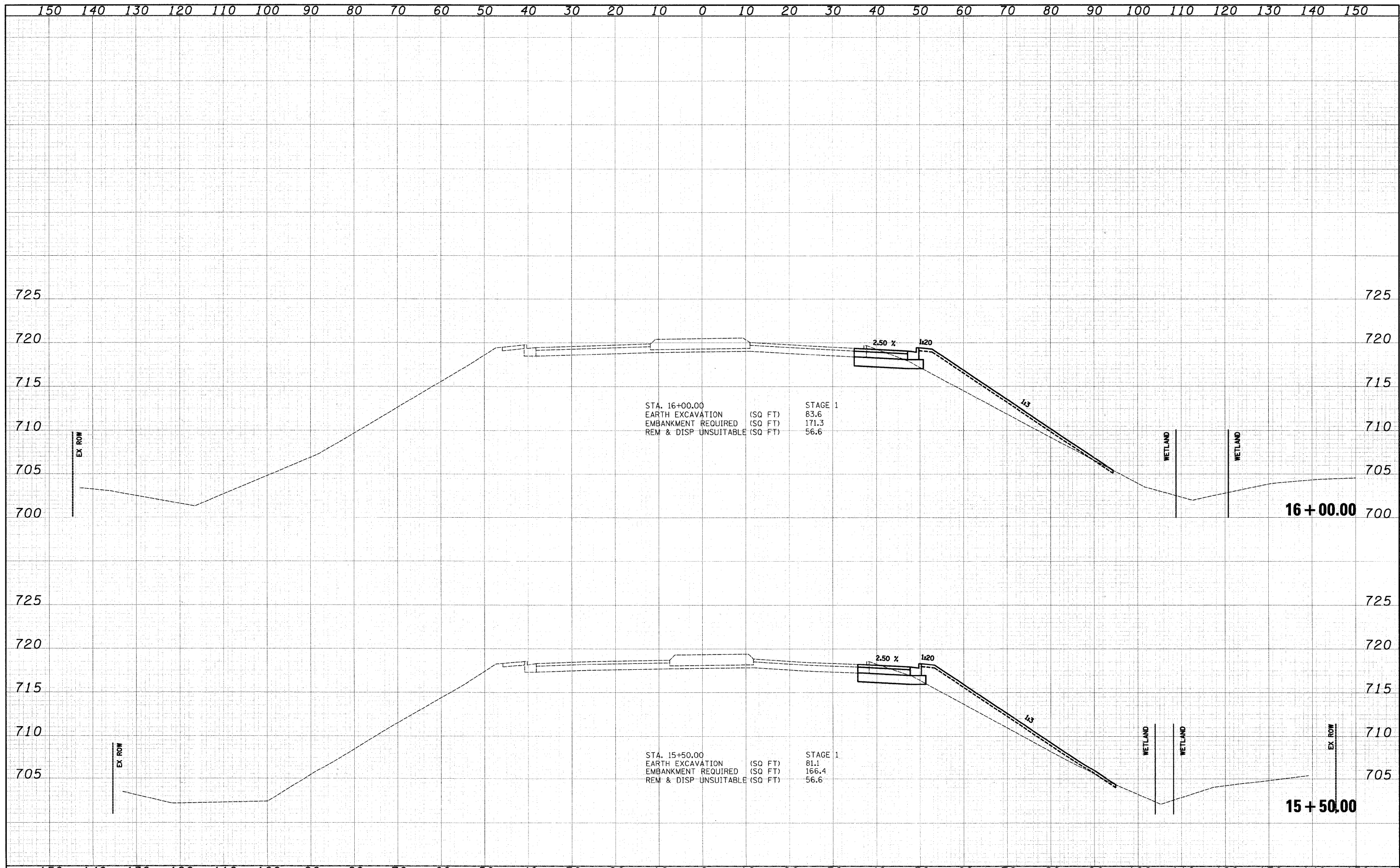
STA. 14+50.00  
 EARTH EXCAVATION (SQ FT) 53.0  
 EMBANKMENT REQUIRED (SQ FT) 81.4  
 REM & DISP UNSUITABLE (SQ FT) 32.7  
 STAGE 1

FILE NAME =	USER NAME = djk	DESIGNED - BLG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 53 (BIESTERFIELD ROAD) CROSS SECTIONS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...2349\cad\sheet\2349.X_Sec.dgn	PLLOT SCALE = 10.4798' / IN.	DRAWN - BLG	REVISED -			1339	09-00054-00-CH	COOK	88	74	
PLLOT DATE = 7/7/2010	DATE - 07-07-10	CHECKED - DJK	REVISED -			<b>CONTRACT NO. 63505</b>					
		DATE - 07-07-10	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)					

SCALE: H: 1"=10'  
 V: 1"=5'  
 SHEET NO. 2 OF 16 SHEETS  
 STA. 14+50.00 TO STA. 15+00.00

FINAL SURVEY	DATE
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NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____

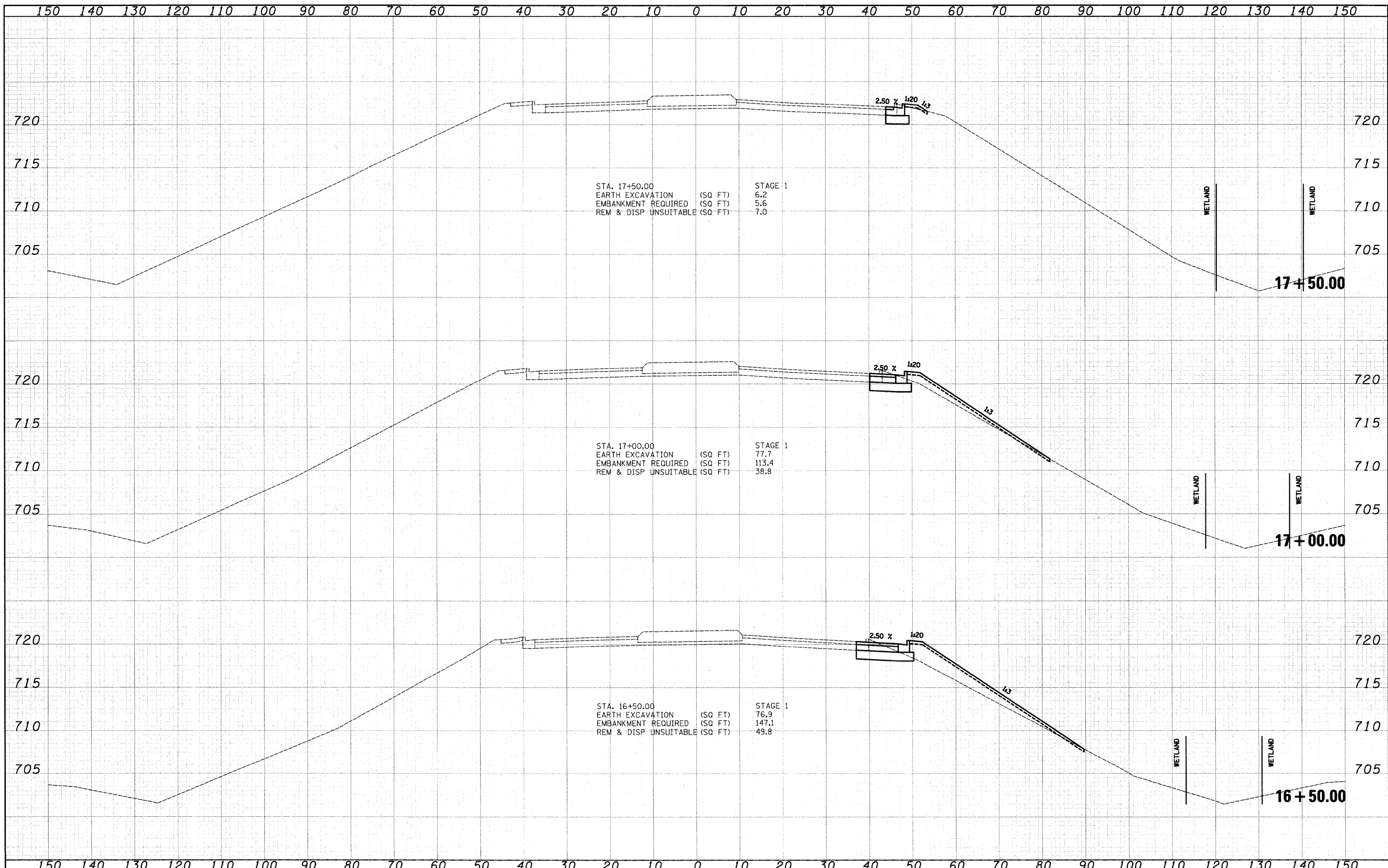
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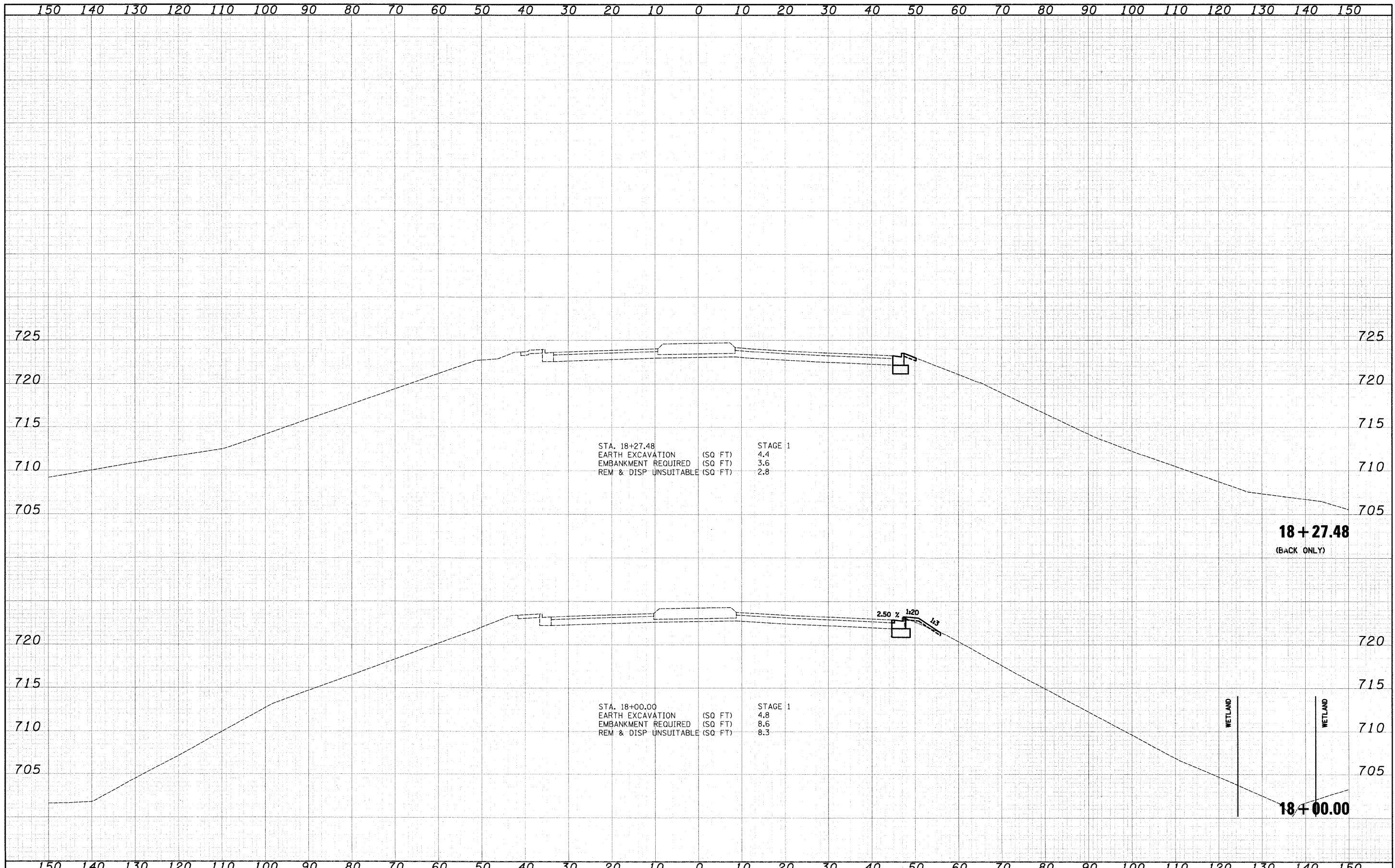


FILE NAME =	USER NAME = djc	DESIGNED - BLG	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 53 (BIESTERFIELD ROAD)</b> <b>CROSS SECTIONS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...2349\cad\sheet\2349.X_Sec.dgn	PLT SCALE = 1/4"=10' IN.	DRAWN - BLG	REVISED -			1339	09-00054-00-CH	COOK	88	76	
PLT DATE = 7/7/2012	DATE - 07-07-10	CHECKED - DJK	REVISED -			CONTRACT NO. 63505		FED. ROAD DIST. NO. 1 (ILLINOIS) FEI AID PROJECT ARA-M-9003(569)			
		DATE - 07-07-10	REVISED -			SCALE: H: 1"=10'	SHEET NO. 4 OF 16 SHEETS	STA. 16+50.00	TO STA. 17+50.00		



FINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		

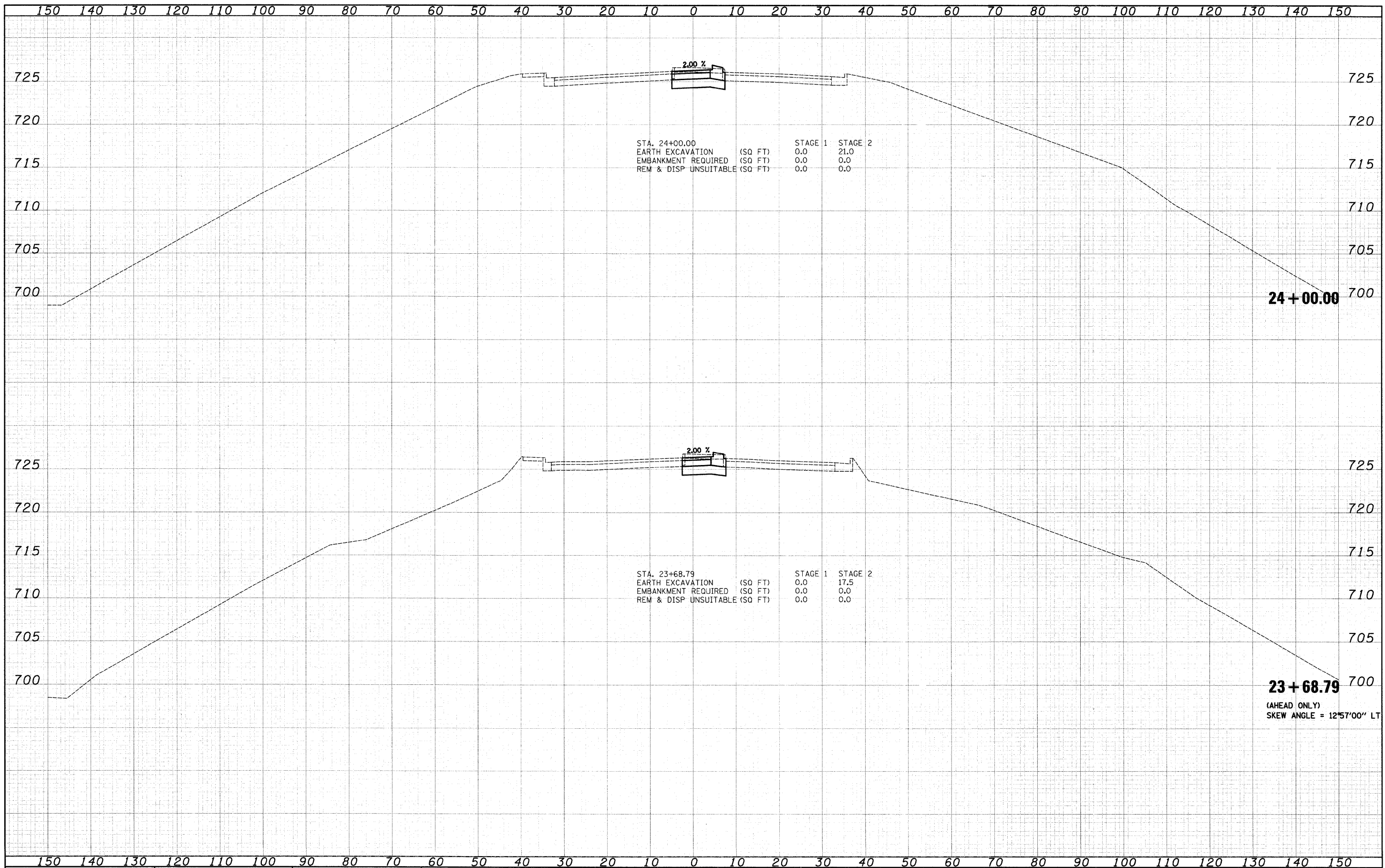
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NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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PLOT SCALE = 10.4798' / IN.	CHECKED - DJK	REVISIONS	REVISIONS		SCALE: H: 1"=10'	SHEET NO. 5 OF 16 SHEETS	STA. 18+00.00 TO STA. 18+27.48	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003569				
PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISIONS	REVISIONS									

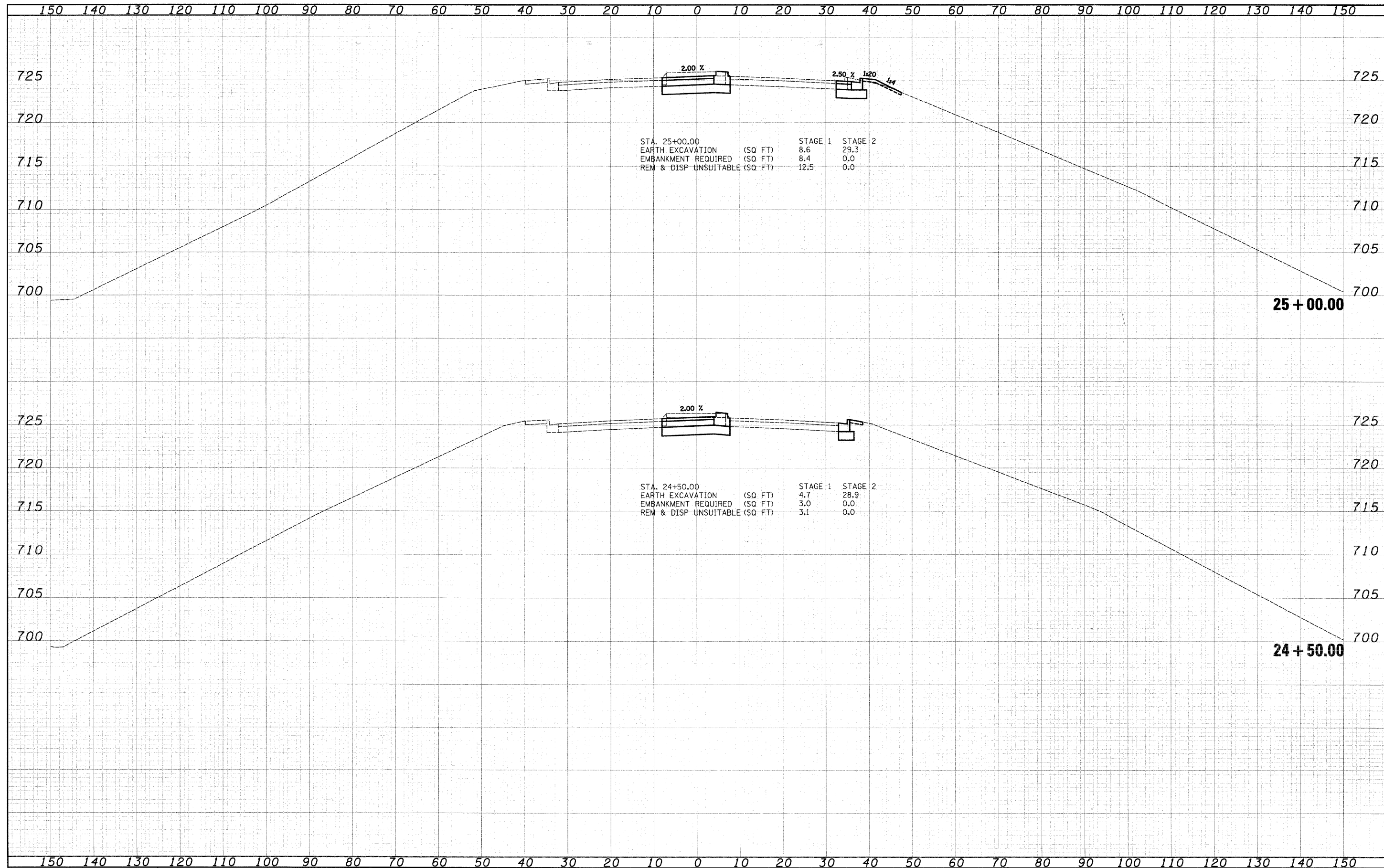
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (BIESTERFIELD ROAD)  
 CROSS SECTIONS**

SCALE: H: 1"=10'  
 SHEET NO. 7 OF 16 SHEETS  
 STA. 24+50.00 TO STA. 25+00.00

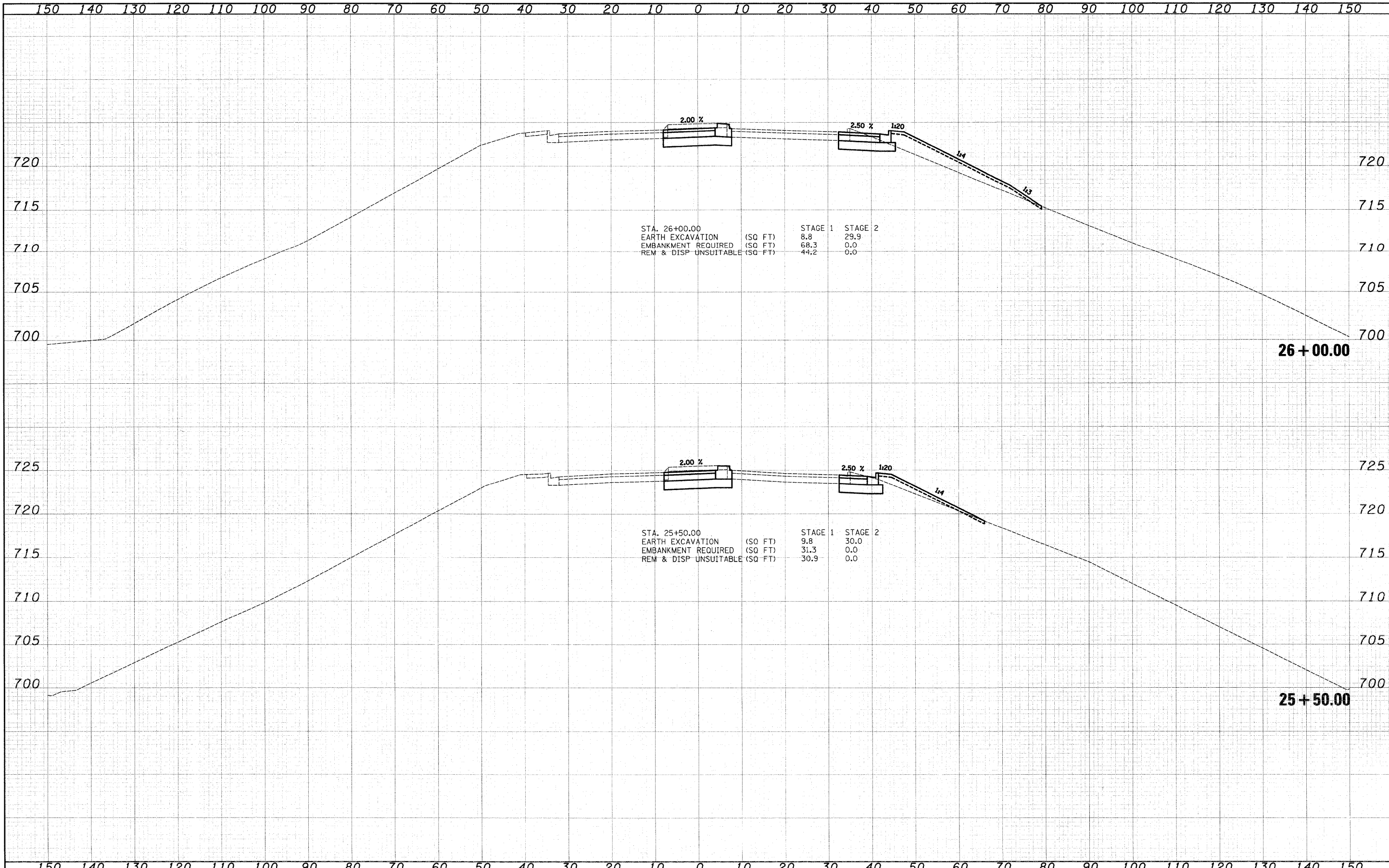
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	79
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT ARA-M-9003569				

V: 1"=5'



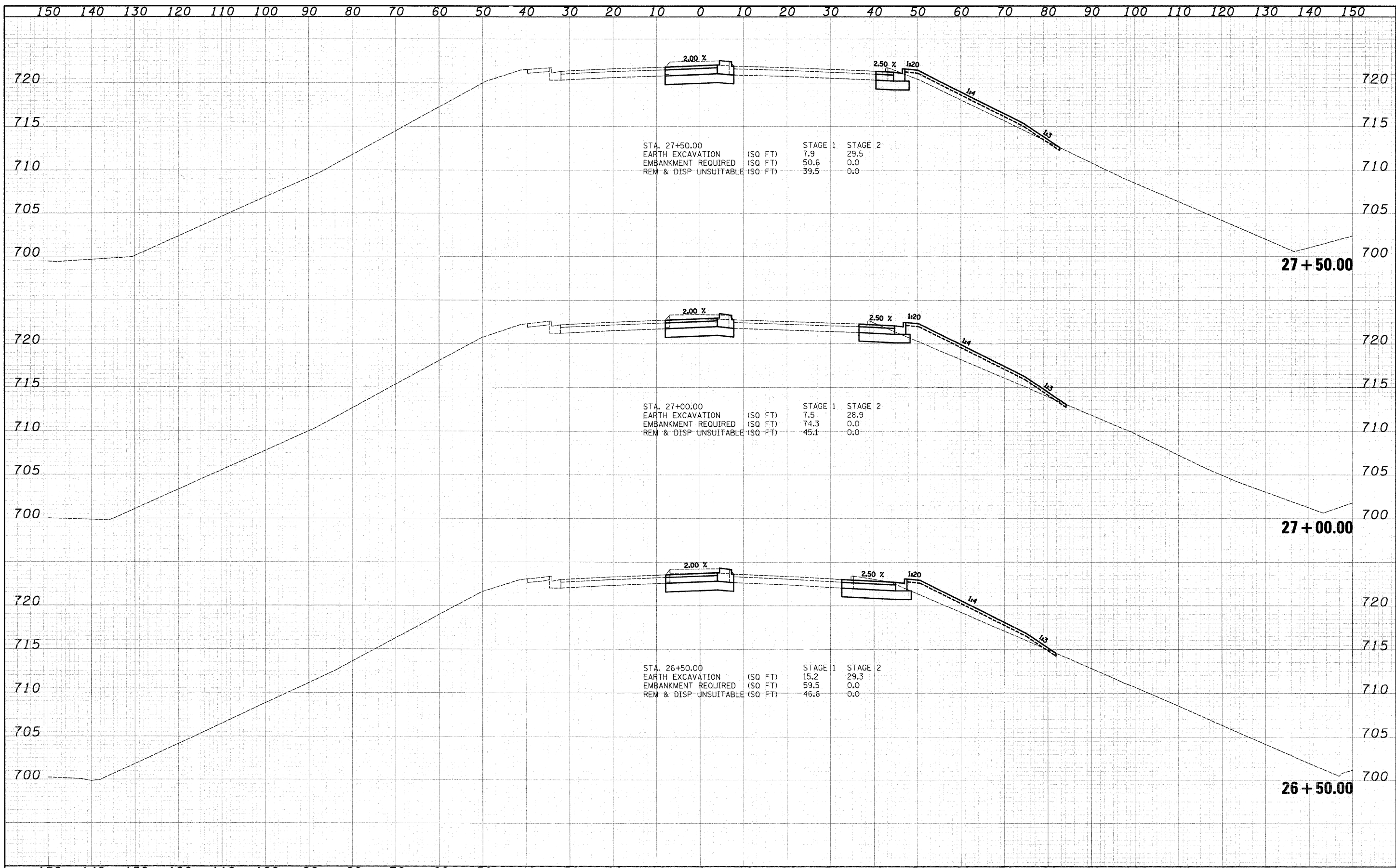
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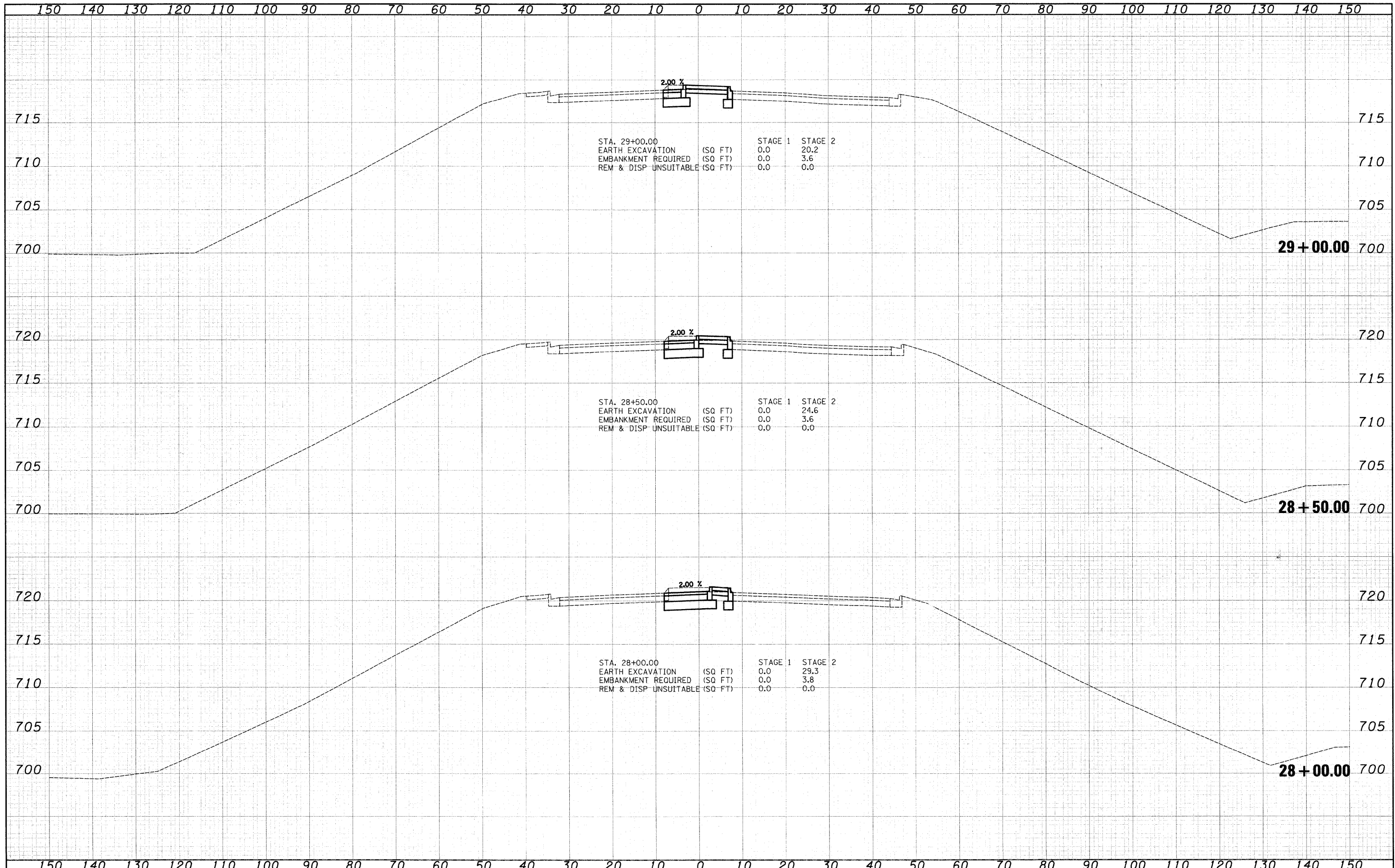


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PLOT SCALE = 10.4798'' / IN.	CHECKED - DJK	REVISIED -	SCALE: H: 1"=10'			SHEET NO. 9 OF 16 SHEETS	STA. 26+50.00 TO STA. 27+50.00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	ARA-M-9003(569)	
PLOT DATE = 7/7/2010	DATE - 07-07-10	REVISED -	CONTRACT NO. 63505							



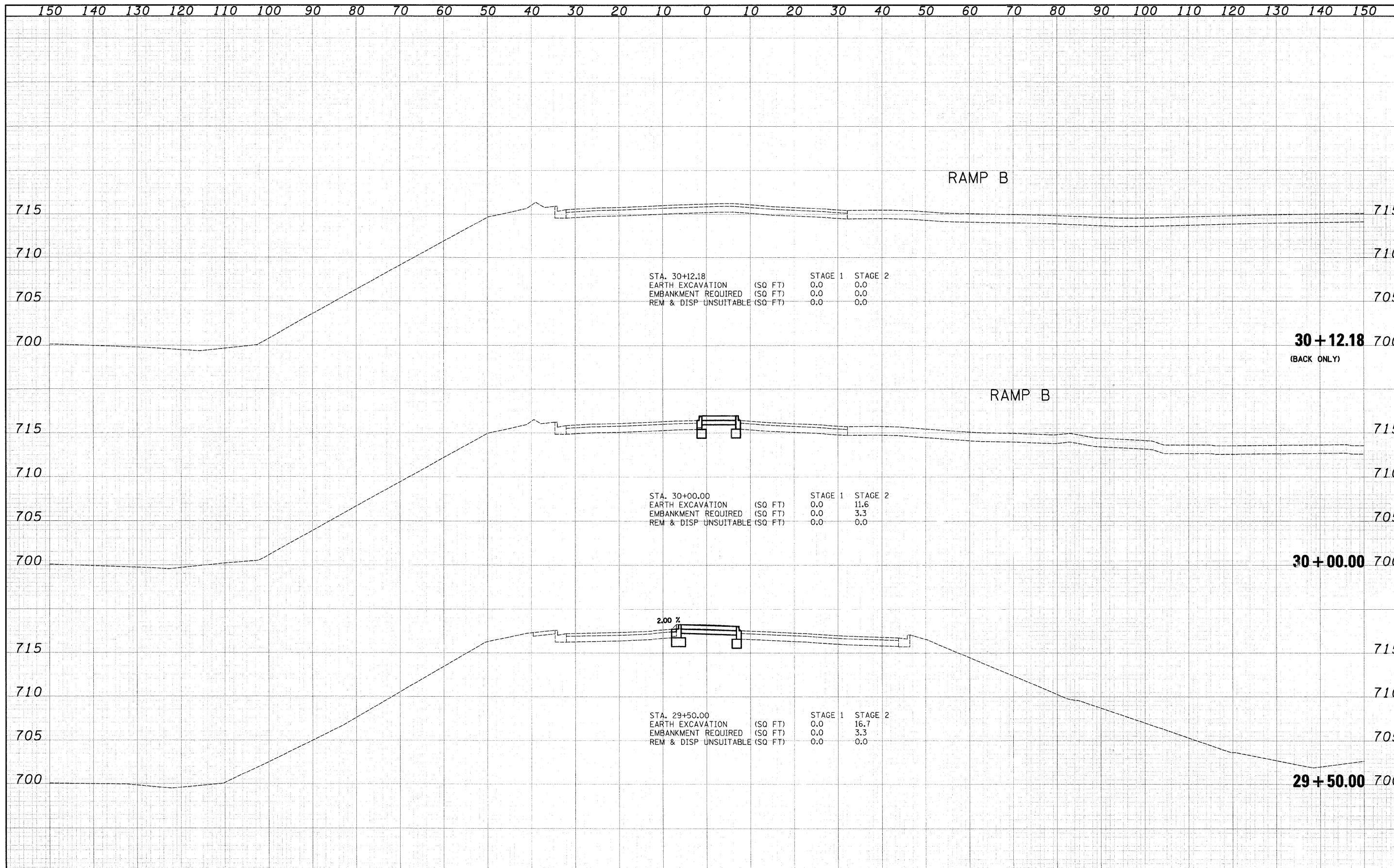
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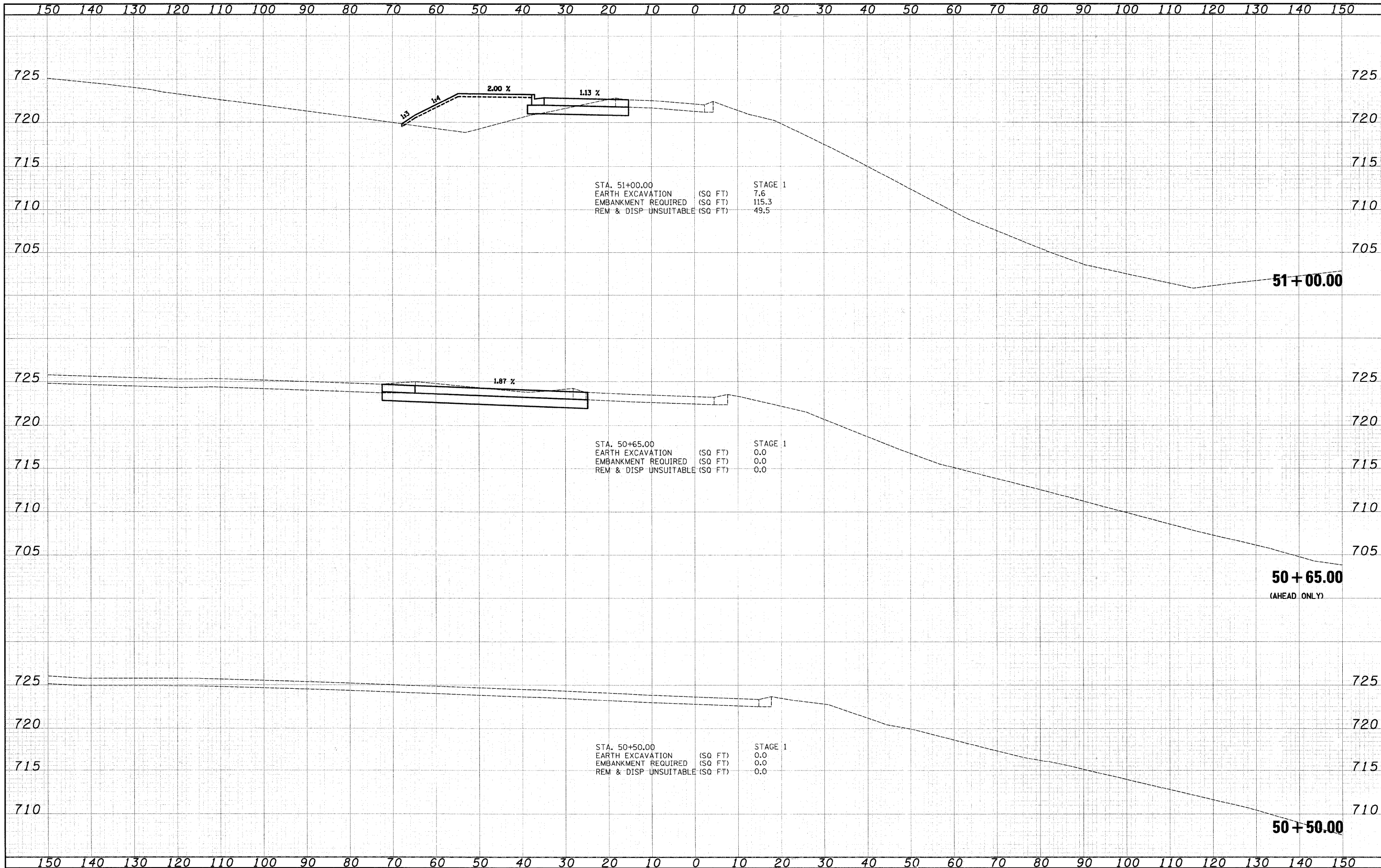


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	PLOT SCALE = 18.4798' / IN.	DRAWN - BLG	REVISED -		SCALE: H: 1"=10'	SHEET NO. 11 OF 16 SHEETS	STA. 29+50.00 TO STA. 30+12.20	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT ARA-M-9003(569)				
	PLOT DATE = 7/7/2010	CHECKED - DJK	REVISED -									
		DATE - 07-07-10	REVISED -									



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STA. 51+00.00  
 EARTH EXCAVATION (SQ FT) 7.6  
 EMBANKMENT REQUIRED (SQ FT) 115.3  
 REM & DISP UNSUITABLE (SQ FT) 49.5

STAGE 1

STA. 50+65.00  
 EARTH EXCAVATION (SQ FT) 0.0  
 EMBANKMENT REQUIRED (SQ FT) 0.0  
 REM & DISP UNSUITABLE (SQ FT) 0.0

STAGE 1

STA. 50+50.00  
 EARTH EXCAVATION (SQ FT) 0.0  
 EMBANKMENT REQUIRED (SQ FT) 0.0  
 REM & DISP UNSUITABLE (SQ FT) 0.0

STAGE 1

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 PLOT DATE = 7/7/2010

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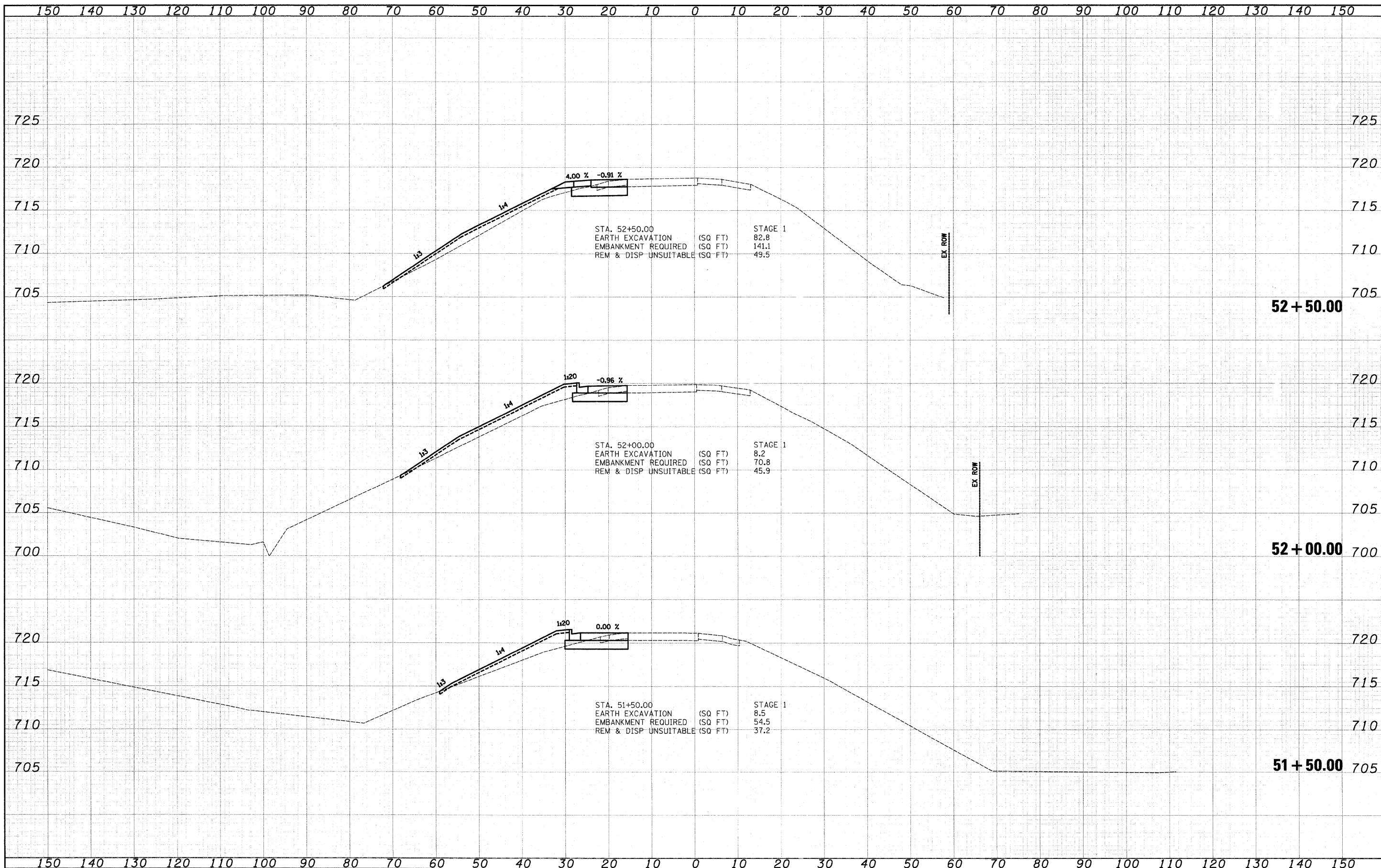
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EASTBOUND ENTRANCE RAMP  
 CROSS SECTIONS**  
 SCALE: H: 1"=10'  
 V: 1"=5'  
 SHEET NO. 12 OF 16 SHEETS  
 STA. 50+50.00 TO STA. 51+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	84
CONTRACT NO. 63505				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT ARA-N-9003569				

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STA. 52+50.00  
 EARTH EXCAVATION (SQ FT) 82.8  
 EMBANKMENT REQUIRED (SQ FT) 141.1  
 REM & DISP UNSUITABLE (SQ FT) 49.5

STA. 52+00.00  
 EARTH EXCAVATION (SQ FT) 8.2  
 EMBANKMENT REQUIRED (SQ FT) 70.8  
 REM & DISP UNSUITABLE (SQ FT) 45.9

STA. 51+50.00  
 EARTH EXCAVATION (SQ FT) 8.5  
 EMBANKMENT REQUIRED (SQ FT) 54.5  
 REM & DISP UNSUITABLE (SQ FT) 37.2

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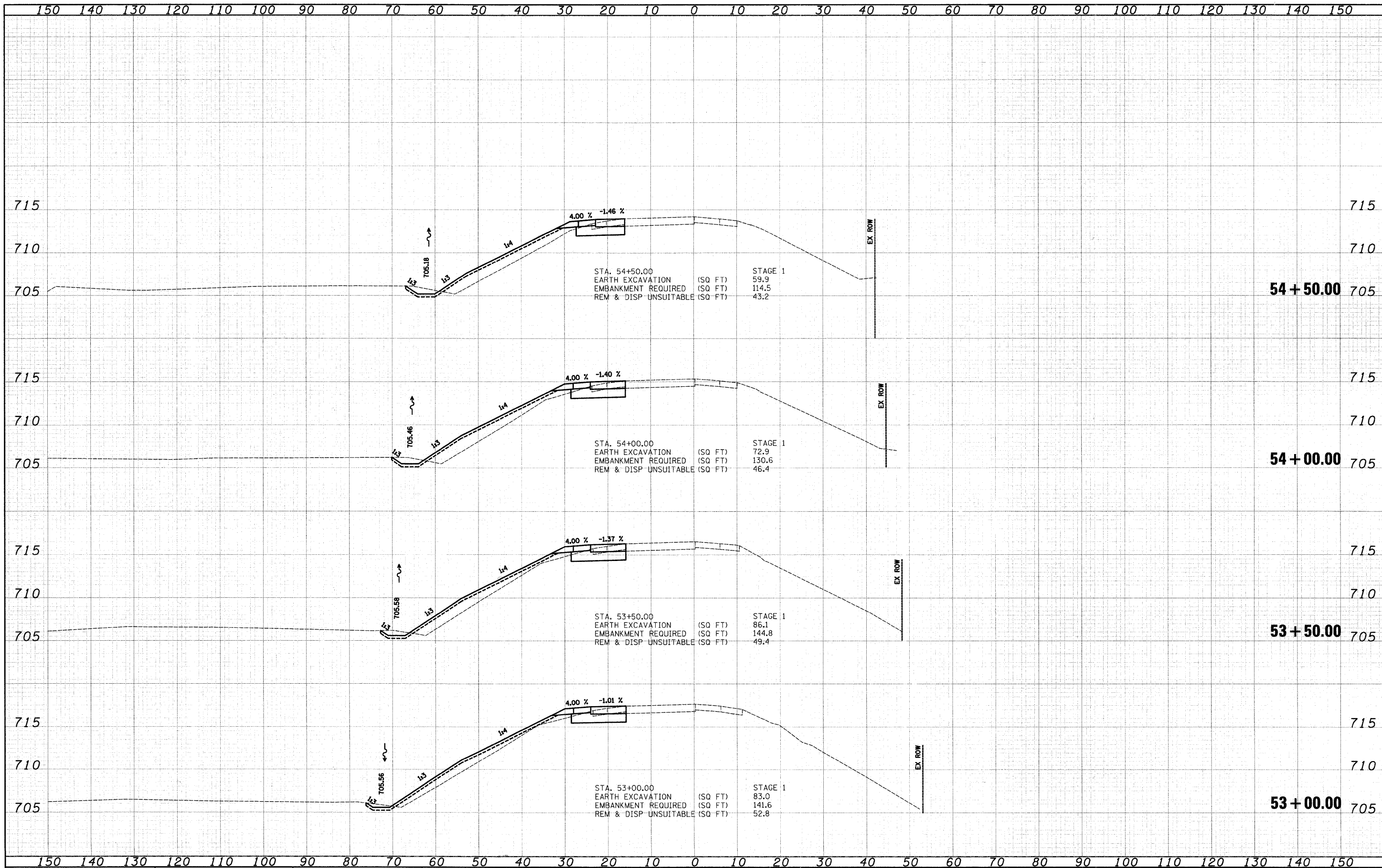
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EASTBOUND ENTRANCE RAMP  
 CROSS SECTIONS**  
 SCALE: H: 1"=10'  
 V: 1"=5'  
 SHEET NO. 13 OF 16 SHEETS  
 STA. 51+50.00 TO STA. 52+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1339	09-00054-00-CH	COOK	88	85
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63505	
ARA-M-9003659				

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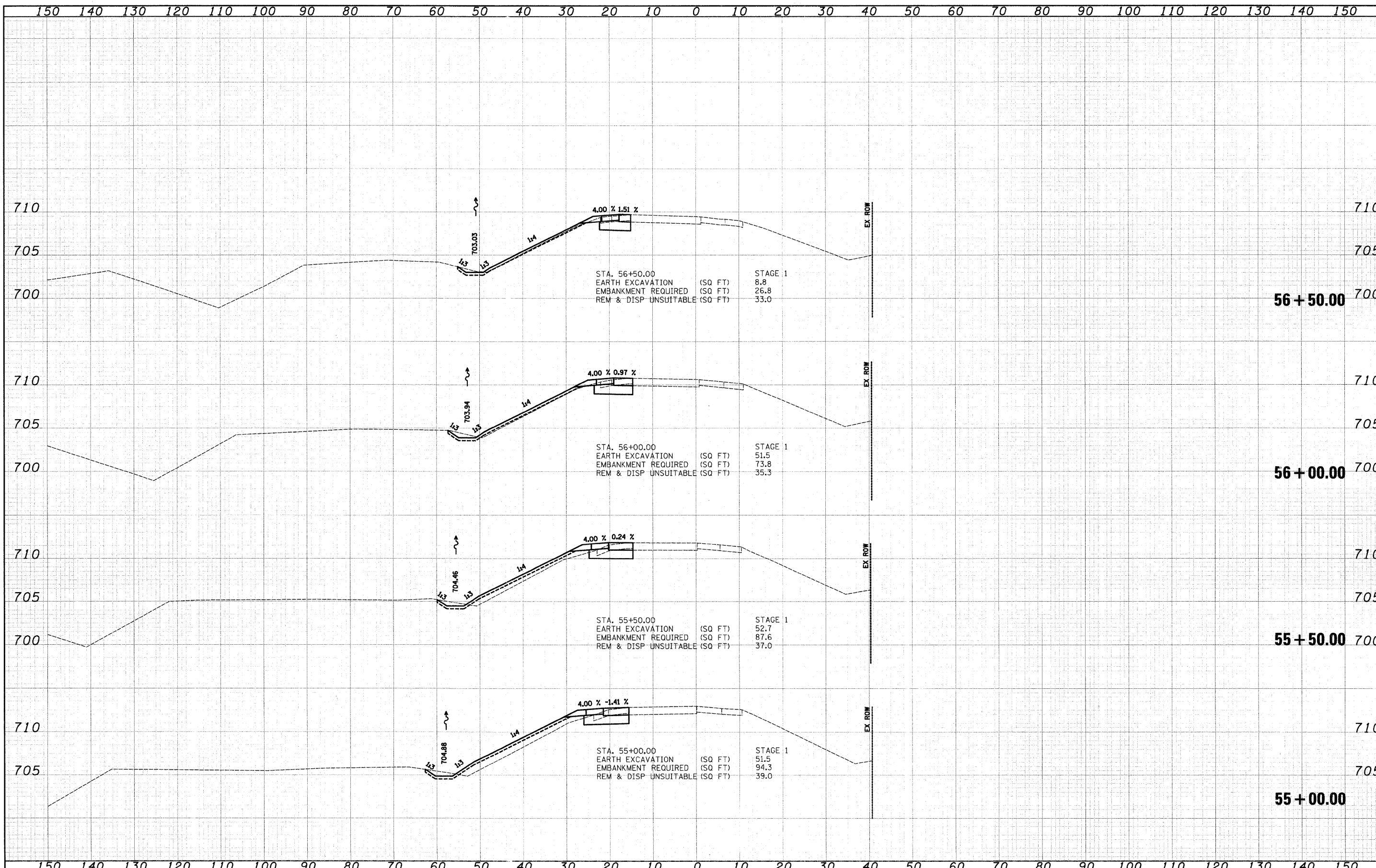


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	PLLOT SCALE = 10.4/98' / IN.	DRAWN - BLG	REVISED -		SCALE: H: 1"=10'	SHEET NO. 14 OF 16 SHEETS	STA. 53+00.00	TO STA. 54+50.00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT ARA-M-90031569			
	PLLOT DATE = 7/7/2010	CHECKED - DJK	REVISED -						CONTRACT NO. 63505			
		DATE - 07-07-10	REVISED -									



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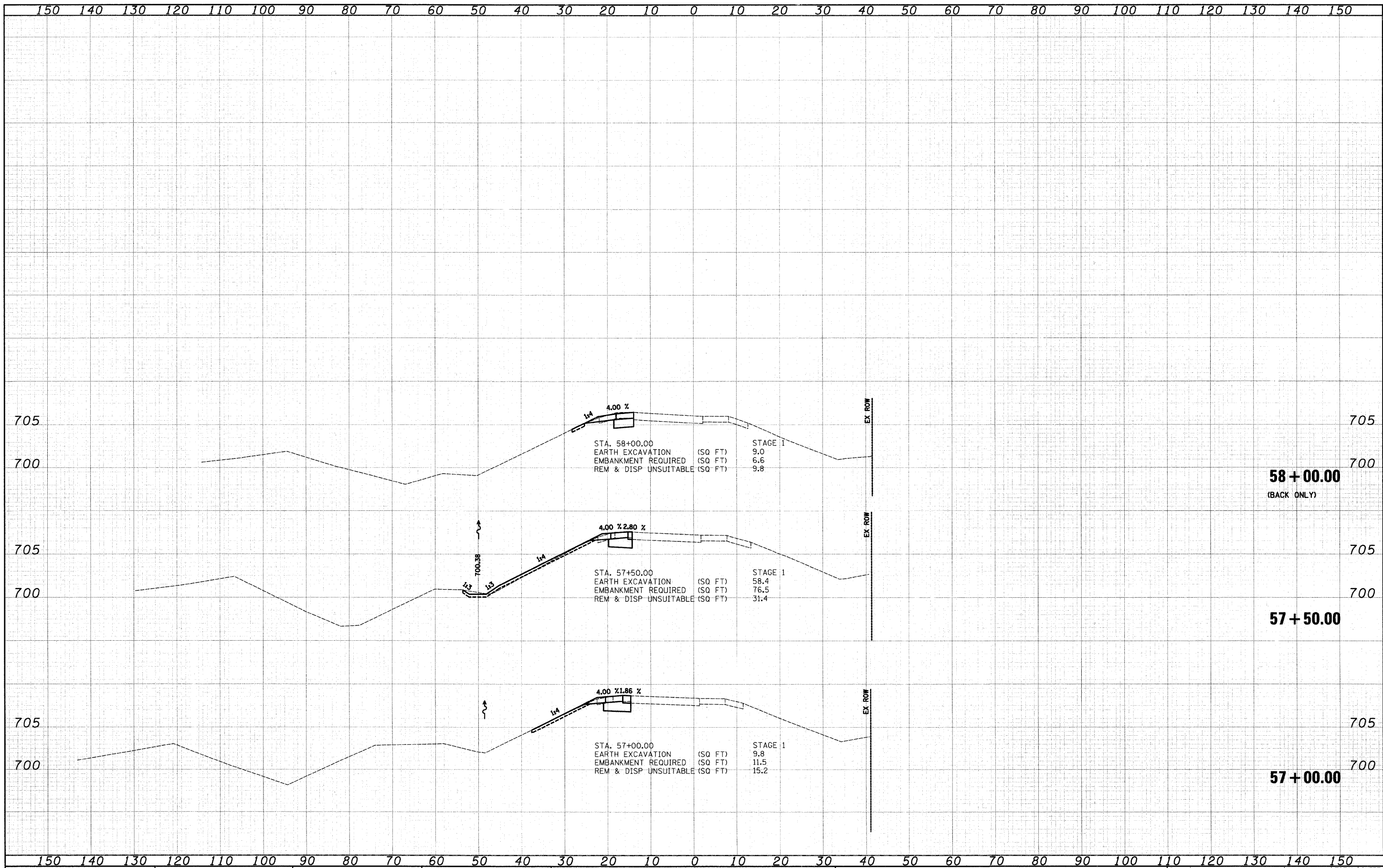
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FILE NAME =	USER NAME = djk	DESIGNED - BLG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EASTBOUND ENTRANCE RAMP CROSS SECTIONS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...2349\oad\sheet\2349_X_Sec.dgn	PLOT SCALE = 18.4798' / IN.	DRAWN - BLG	REVISED -			1339	09-00054-00-CH	COOK	88	87	
PLOT DATE = 7/7/2010	DATE - 07-07-10	CHECKED - DJK	REVISED -			SCALE: H: 1"=10' V: 1"=5'		SHEET NO. 15 OF 16 SHEETS		STA. 55+00.00 TO STA. 56+50.00	
		DATE - 07-07-10	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003569					

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FILE NAME =	USER NAME = djc	DESIGNED - BLG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EASTBOUND ENTRANCE RAMP CROSS SECTIONS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\2349\oad\sheet\2349_X_Sec.dgn		DRAWN - BLG	REVISED -		1339	09-00054-00-CH	COOK	88	88			
PLOT SCALE = 10.4798' / IN.		CHECKED - DJK	REVISED -		CONTRACT NO. 63505			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-M-9003(569)				
PLOT DATE = 7/7/2012		DATE - 07-07-10	REVISED -		SCALE: H: 1"=10'	SHEET NO. 16 OF 16 SHEETS	STA. 57+00.00 TO STA. 58+00.00					