

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

**FOR LIST OF STATE STANDARDS,  
SEE SHEET NO. 2**

**TRAFFIC DATA:**

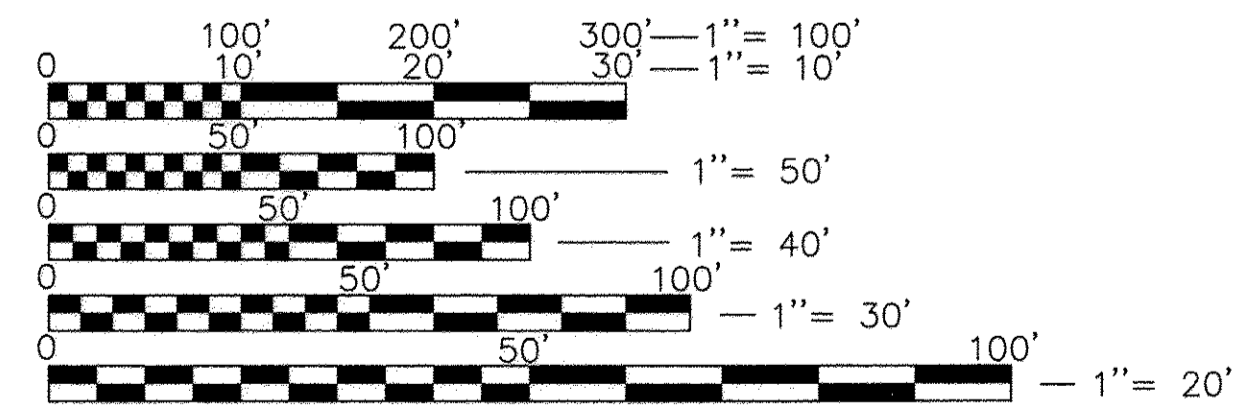
**DESIGN DESIGNATION:**  
BRIGGS STREET = COLLECTOR  
DIVISION STREET = COLLECTOR  
FARRELL ROAD = COLLECTOR

**ADT:**  
BRIGGS STREET = 6,550 (2012)  
DIVISION STREET = 9,550 (2012)  
FARRELL ROAD = 13,300 (2012)

**DESIGN SPEED:**  
BRIGGS STREET = 45 MPH  
DIVISION STREET = 45 MPH  
FARRELL ROAD = 45 MPH

**POSTED SPEED:**  
BRIGGS STREET = 45 MPH  
DIVISION STREET = 40 MPH  
FARRELL ROAD = 35 MPH

**SCALES:** PLAN ..... 1" = 20'  
PROFILE HORIZ. .... 1" = 20'  
PROFILE VERT. .... 1" = 5'  
CROSS SECTION HORIZ. .... 1" = 10'  
CROSS SECTION VERT. .... 1" = 5'



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 LOCATING INFORMATION FOR EXCAVATION  
1-800-892-0123 OR 811**

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

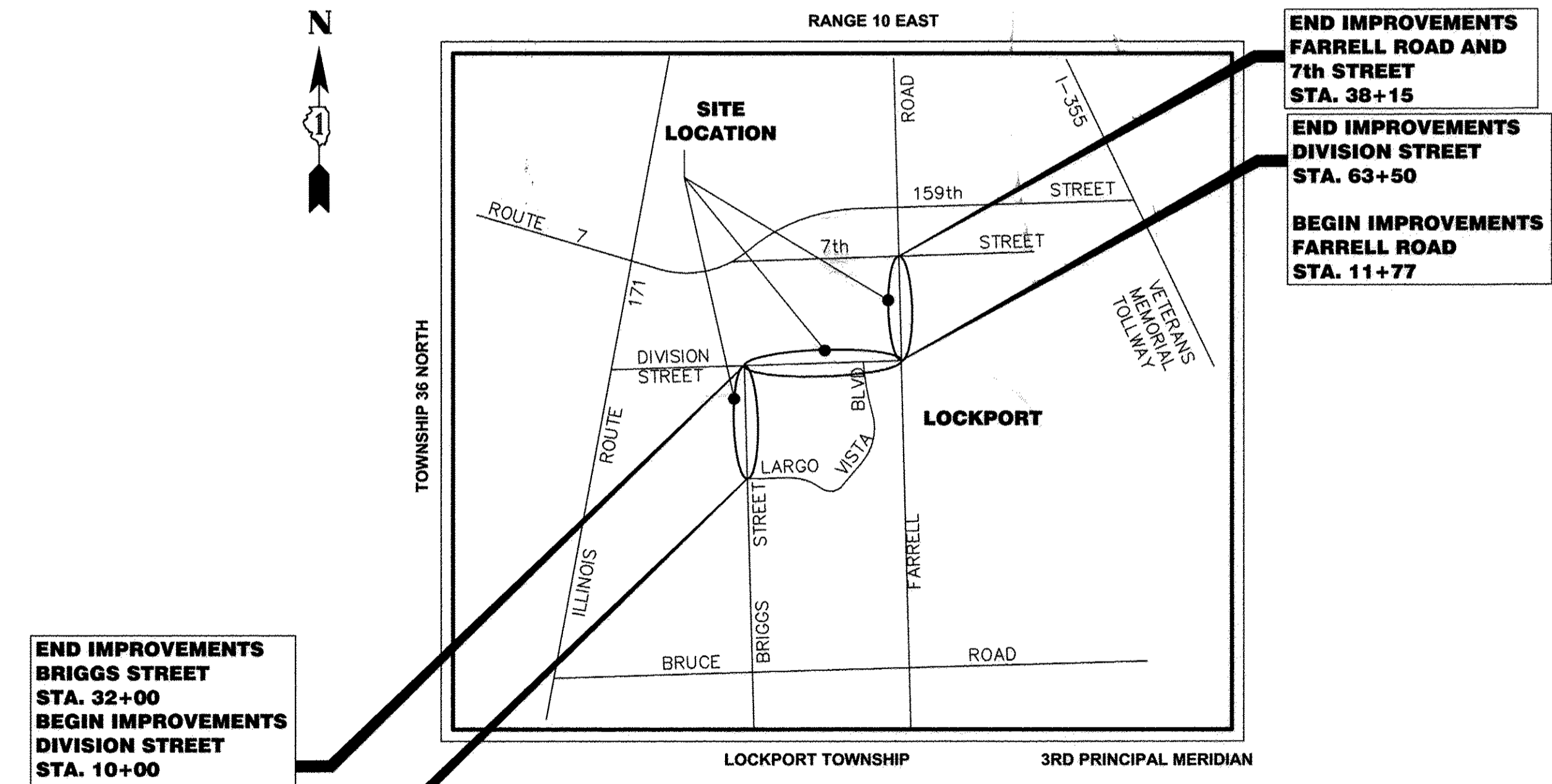
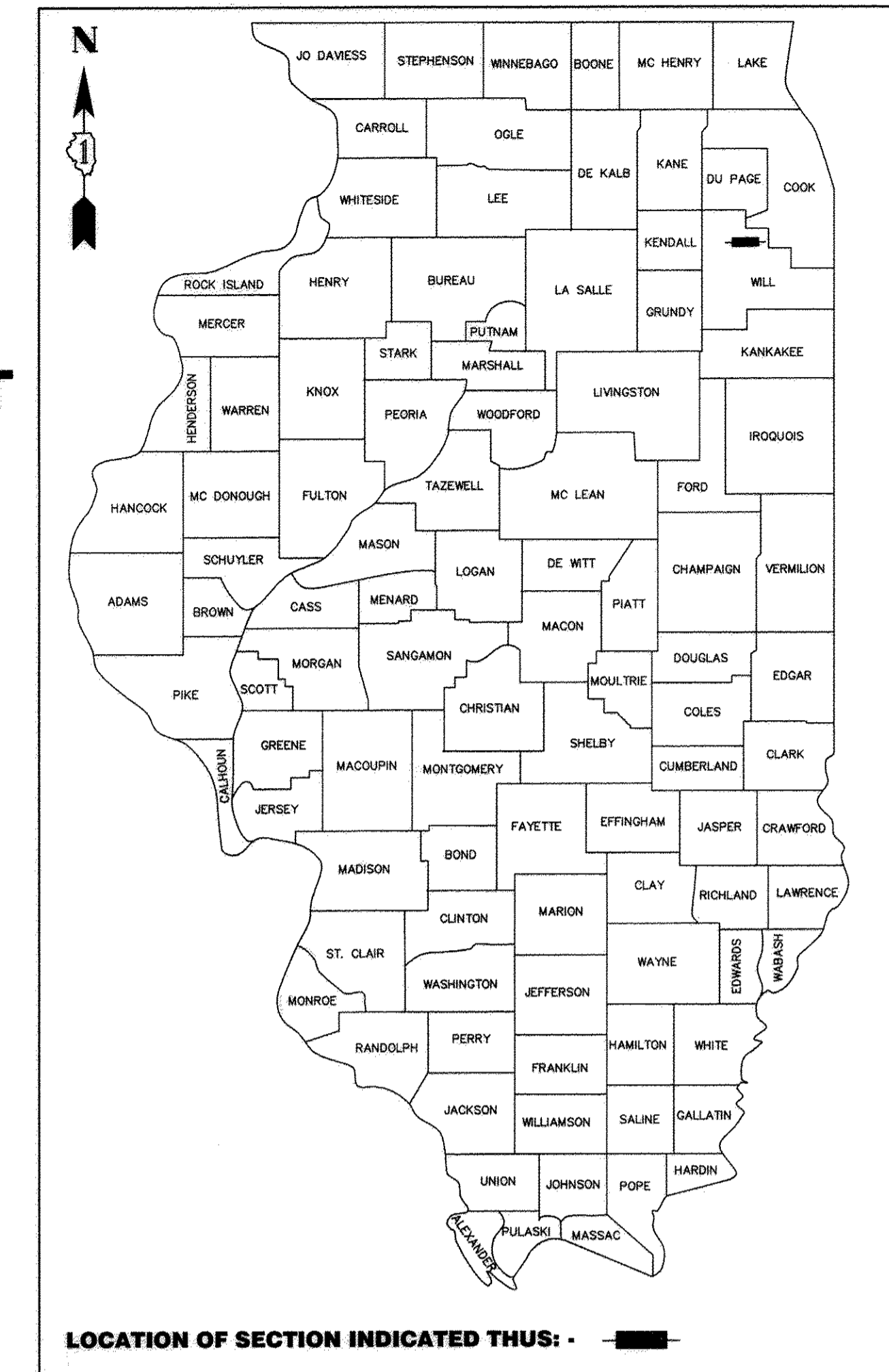
**FAU 363 (BRIGGS STREET-CH 62) - LARGO VISTA BLVD TO DIVISION ST  
FAU 291 (DIVISION STREET-CH 75) - BRIGGS ST TO FARRELL RD  
FAU 366 (FARRELL ROAD) - DIVISION ST TO 7th STREET**

**MULTI-USE PATH AND SIDEWALK CONSTRUCTION**

**SECTION NO. 10-00072-00-BT  
PROJECT NO. TE-00D1 (867)**

**CITY OF LOCKPORT  
WILL COUNTY  
JOB NO: C-91-488-11**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	1
CONTRACT NO. 61D48				



**LOCATION MAP  
NOT TO SCALE**

**PROJECT GROSS AND NET LENGTH:**

BRIGGS STREET .....	2,135 FEET (0.40 MILES)
DIVISION STREET .....	5,350 FEET (1.01 MILES)
FARRELL ROAD .....	2,638 FEET (0.50 MILES)
<b>TOTAL .....</b>	<b>10,123 FEET (1.91 MILES)</b>

**RT & A** Ruettiger, Tonelli & Associates, Inc.  
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
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 website: www.ruettiger-tonelli.com

LATEST R.T. & A. REVISION: 9-16-2016 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

APPROVED 11-03-2016  
 [Signature] DIRECTOR OF ENGINEERING  
 LOCKPORT

PASSED DECEMBER 19, 2016  
 [Signature] CAROLANNE HOLT  
 DISTRICT 1 ENGINEER OF LOCAL ROAD AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW December 20, 2016  
 [Signature] REGIONAL ENGINEER

JOSEPH P. HAMMER, P.E. No. 062-053186 (EXPIRES 11-30-2017)  
 DATED THIS 14th DAY OF December, 2016

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847)705-4406, SCHAUMBURG, IL.

11/20/16 10:07 AM Engineering/Plan/Section/2/Sheet/1 of 1/10/16 10:07 AM d:\work\...

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# LIST OF STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-03	MID-BLOCK CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602301-04	INLET TYPE A
602401-03	MANHOLE TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAMES AND LIDS TYPE 1
604021-03	BASE, FRAME AND LIDS TYPE 5
604036-03	GRATE TYPE 8
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-11	STEEL PLATE BEAM GUARDRAIL
6300116	BACK SIDE PROTECTION OF GUARDRAIL
668001-01	U.S. GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARK RESETTING METHOD
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' min. TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS $\geq$ 45
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-07	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAIL

# I.D.O.T. DISTRICT ONE DETAILS

TS-05	STANDARD TRAFFIC SIGNAL DESIGN
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN

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LATEST R.T. & A. REVISION: 9-16-2016 FIELD BOOK & PAGE:		<b>R.T. &amp; A. Dwg. No.: 310-1076-C2</b>

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS AND STATE STANDARDS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	2
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
	PLOT DATE =	DATE 7-30-2015	REVISED		ILLINOIS FEDERAL AID PROJECT					
									CONTRACT NO. 61D48	



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", LATEST EDITION; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"(MUTCD). "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL ELEVATIONS ARE ON NAVD 88 DATUM
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ARTICLES 105.07, 107.20 AND 107.31.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, SEWERS, AND WATER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES.
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD CONTROL ENGINEER AT (847) 705-4470 PRIOR TO PLACEMENT PLACING AND ANY PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE ENGINEER SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, THE ENGINEER SHALL NOT ADVISE ON, OR ISSUE DIRECTIONS CONCERNING, ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
- CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT ALL EXCAVATION AND/OR TRENCHING OPERATIONS SO THAT SPRINKLER SYSTEMS, CUBS, LOCAL SERVICES, BUFFALO BOXES, VALVES, MANHOLES, INLETS, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COMPENSATION ALLOWED.
- THE CONTRACTOR SHALL SUBMIT IN WRITING A "SCHEDULE OF OPERATIONS" SHOWING APPROXIMATE DATES FOR COMMENCING AND COMPLETING VARIOUS PHASES OF CONSTRUCTION INCLUDED IN THE CONTRACT PRIOR TO COMMENCING ANY CONSTRUCTION UNDER THIS CONTRACT. THE SCHEDULE SHALL HAVE THE APPROVAL OF THE ENGINEER AND THE DATE FOR STARTING SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS.

GENERAL NOTES

- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE. THE RIGHT-OF-WAY SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH ARTICLE 107.20.
- SAW CUTTING OF PAVEMENT, SHOULDERS, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING.
- WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF EXISTING STORM SEWERS PRIOR TO THE CONSTRUCTION OF PROPOSED STORM SEWER.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED.
- LAYOUT AND STAKING FOR ALL CONSTRUCTION OPERATIONS SHALL BE PROVIDED BY THE CONTRACTOR.
- 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, CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE.
- ALL EXISTING AND TEMPORARY SUBSURFACE DRAINS AND/OR FIELD TILES AND THEIR HEADWALLS ENCOUNTERED IN THE ROADWAY EXCAVATION SHALL BE REMOVED AND CONSIDERED TO BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAPPING THE EXISTING SUBSURFACE DRAINS OR CONNECTING TO THE PROPOSED STORM SEWER AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- QUANTITIES AND ASSOCIATED PAY ITEMS FOR EARTHWORK, LANDSCAPE RESTORATIONS, AND EROSION CONTROL WERE DEVELOPED ACCORDING TO THE NECESSARY GRADING FOR THE PROJECT PROPOSED AS SHOWN IN THE CROSS SECTIONS. AREAS DISTURBED BEYOND THE SLOPE INTERCEPTS SHALL HAVE EROSION CONTROL AND LANDSCAPING RESTORATION ACCORDING TO THE ADJACENT REQUIREMENTS SHOWN IN THE PLANS. THE GROUND SHALL BE GRADED AND RESTORED TO MATCH THE EXISTING PRE-CONSTRUCTION CONDITIONS, ALL WORK DESCRIBED ABOVE BEYOND THE RESTORATION LIMITS WILL NOT BE PAID FOR SEPARATELY.
- CONTRACTOR SHALL PRESENT A PAVING SCHEDULE TO THE ENGINEER WITHIN 7 DAYS PRIOR TO PAVING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE PAVING SCHEDULE CHANGES WITHIN 48 HOURS. IF THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER OF THE REVISED PAVING SCHEDULE, THERE WILL BE A \$500 PER DAY FINE PAID FROM THE CONTRACTOR TO THE DEPARTMENT BEGINNING AFTER THE FIRST DAY OF PROPOSED PAVING SCHEDULE UNTIL THE ENGINEER IS NOTIFIED BY THE CONTRACTOR OF A REVISED SCHEDULE.

WILL COUNTY DIVISION OF TRANSPORTATION GENERAL NOTES

- THE CITY'S, CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND ACCEPTS RESPONSIBILITY FOR THE MAINTENANCE FOR THE EROSION CONTROL STRUCTURES AND MEASURES WITHIN THE COUNTY R.O.W.
- PORTABLE / CHANGEABLE ELECTRONIC MESSAGE BOARDS SHALL BE USED IN ADVANCE OF THE PROJECT ACCORDING TO IDOT STANDARDS AND SHALL BE IN PLACE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING THE WORK AND REMAIN THROUGHOUT THE ROADWAY CONSTRUCTION WORK.
- ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY R.O.W. MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO WCDH APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.
- THE RESIDENT ENGINEER SHALL PROVIDE WCDOT A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, SHALL PROVIDE WCDOT WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, SHALL SIGN AND PROVIDE WCDOT ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORMS, SHALL SUBMIT TO WCDOT A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- RECORD DRAWINGS SHALL BE PREPARED BY CONTRACTOR IN ACCORDANCE WITH WCDOT REQUIREMENTS AND SHALL BE SUBMITTED IN ELECTRONIC FORMAT.
- ALL CONSTRUCTION TO BE ACCORDING TO IDOT DESIGN AND STANDARD SPECIFICATIONS AND THE WILL COUNTY DEPARTMENT OF HIGHWAYS PERMIT REGULATIONS AND ACCESS CONTROL REGULATIONS.
- ALL DISTURBED GROUND WITHIN THE COUNTY RIGHT OF WAY SHALL BE RE-SEEDED (CLASS 2A), FERTILIZED, AND EXCELSIOR BLANKET INSTALLED TO THE SATISFACTION OF THE ENGINEER AS COORDINATED WITH THE WILL COUNTY DIVISION OF TRANSPORTATION.
- THE WILL COUNTY DIVISION OF TRANSPORTATION MUST BE NOTIFIED A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION WITHIN THE COUNTY RIGHT OF WAY.


TEMPORARY EROSION CONTROL NOTES

- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE AND REMOVAL OF THE MEASURE.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.
- ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.
- AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION AND WHERE NO FURTHER WORK IS TO OCCUR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.
- TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.
- ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER. WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

TEMPORARY EROSION CONTROL NOTES

- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
- ANY SOIL, AND MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED FROM PRIOR TO THE END OF THE WORK DAY.
- SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACCESS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS AREA A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.
- PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES AREA NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
- THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- TEMPORARY CONCRETE WASHOUT AREA FACILITY SHALL BE AT LOCATIONS DESIGNATED BY THE ENGINEER AND WILL NOT BE PAID FOR SEPARATELY.
- MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL NOT BE PAID FOR SEPARATELY.

**COMMITMENT**  
SPECIAL ATTENTION AND SCHEDULING WILL BE REQUIRED FOR THE INSTALLATION OF THE PATH ALONG FARRELL ROAD. THE PATH ALONG FARRELL ROAD IS TO BE BUILT ADJACENT TO LOCKPORT TOWNSHIP HIGH SCHOOL. TRAFFIC IN THIS AREA DURING SCHOOL SESSION IS VERY HEAVY. THEREFORE THE IMPROVEMENTS FOR THIS SEGMENT ARE TO BE COMPLETED ONCE SPRING SEMESTER HAS ENDED INCLUDING GRADUATION AND PRIOR TO FALL SEMESTER RESUMING.

	<b>Ruettiger, Tonelli &amp; Associates, Inc.</b> <small>Surveyors* Engineers* Planners* Landscape Architects* G.I.S. Consultants</small>
	<small>129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404                  PH. (815) 744-6600 FAX (815) 744-0101                  website: www.ruettigertonnelli.com</small>
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FIELD BOOK & PAGE:	

<b>FILE NAME:</b>	<b>USER NAME =</b>	DESIGNED <b>JPH @ RTA</b>	REVISED <b>12-28-2016</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN <b>ECH @ RTA</b>	REVISED		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	WILL	93	3
		CHECKED <b>JPH @ RTA</b>	REVISED		ILLINOIS FEDERAL AID PROJECT						
		DATE <b>7-30-2016</b>	REVISED		CONTRACT NO. 61D48						



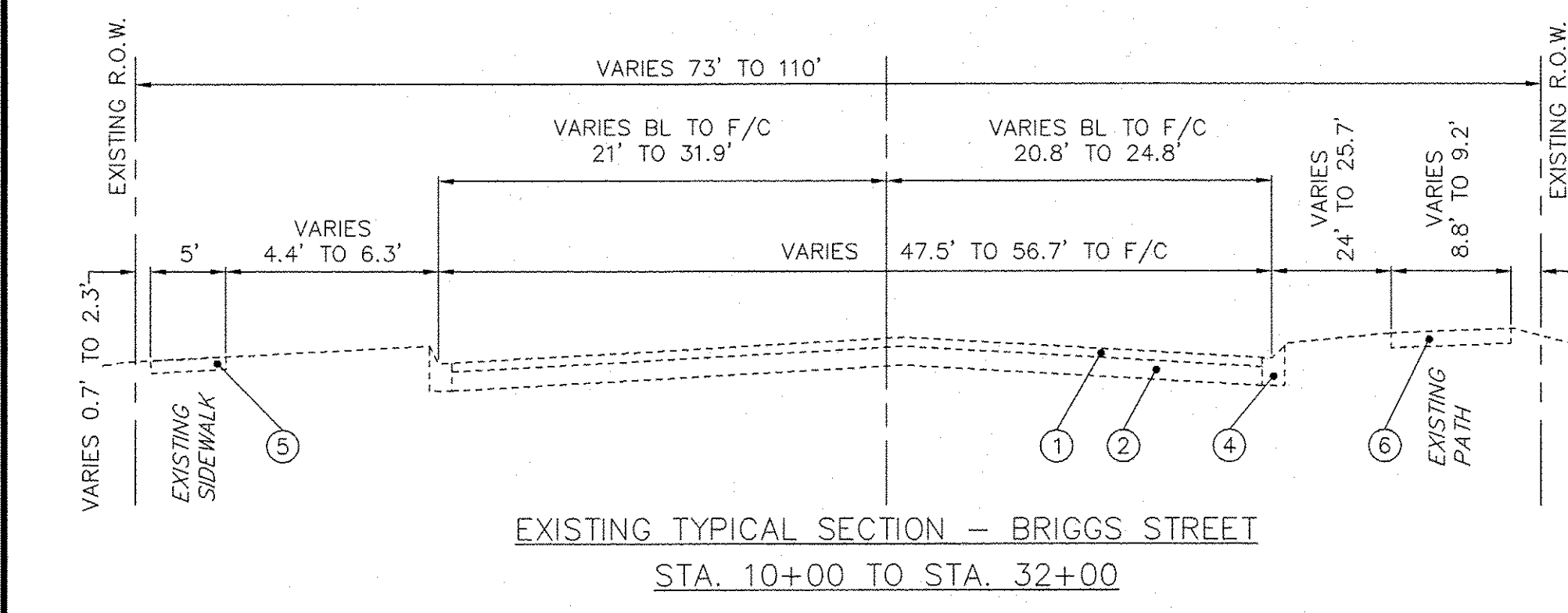
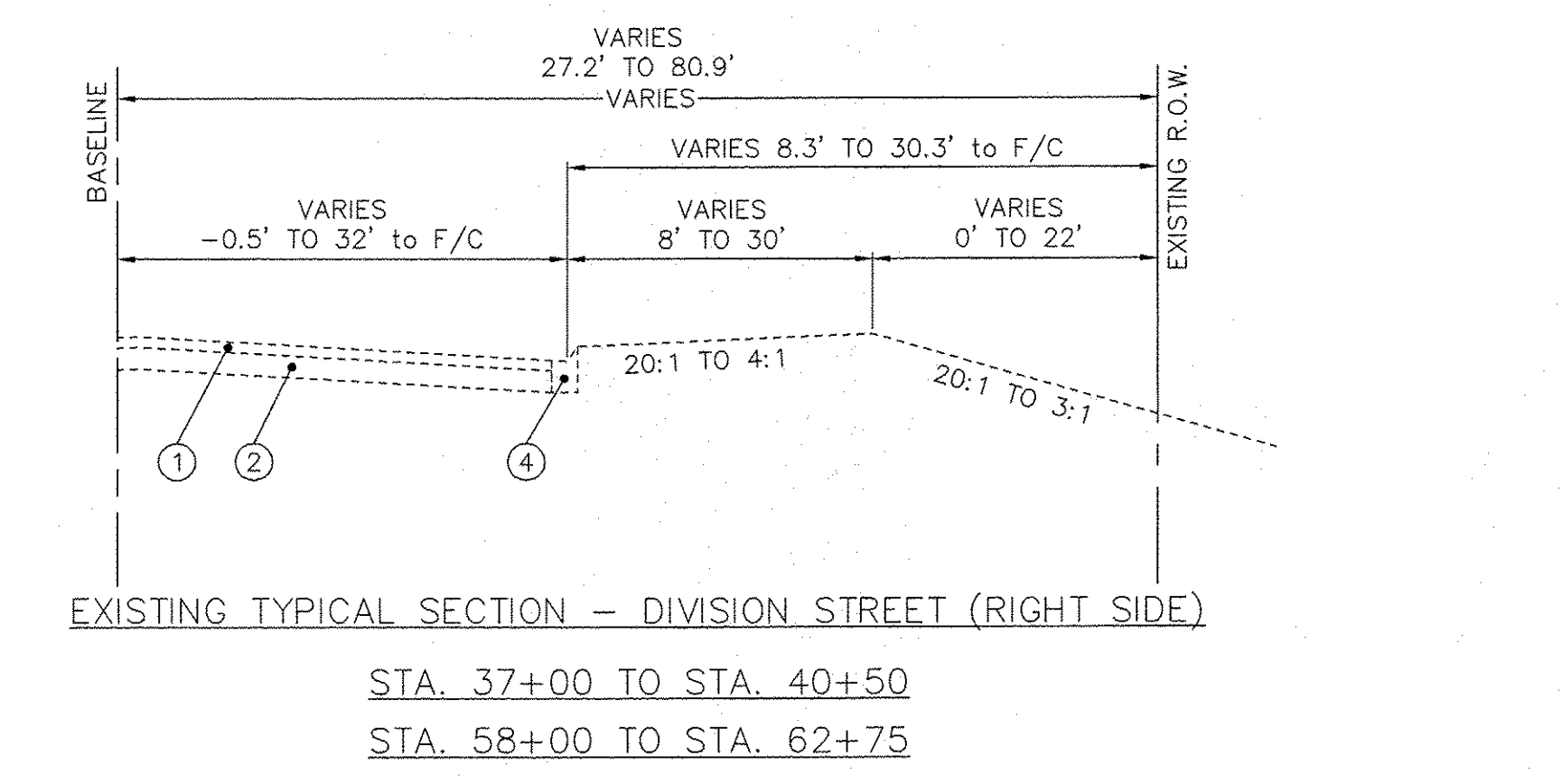
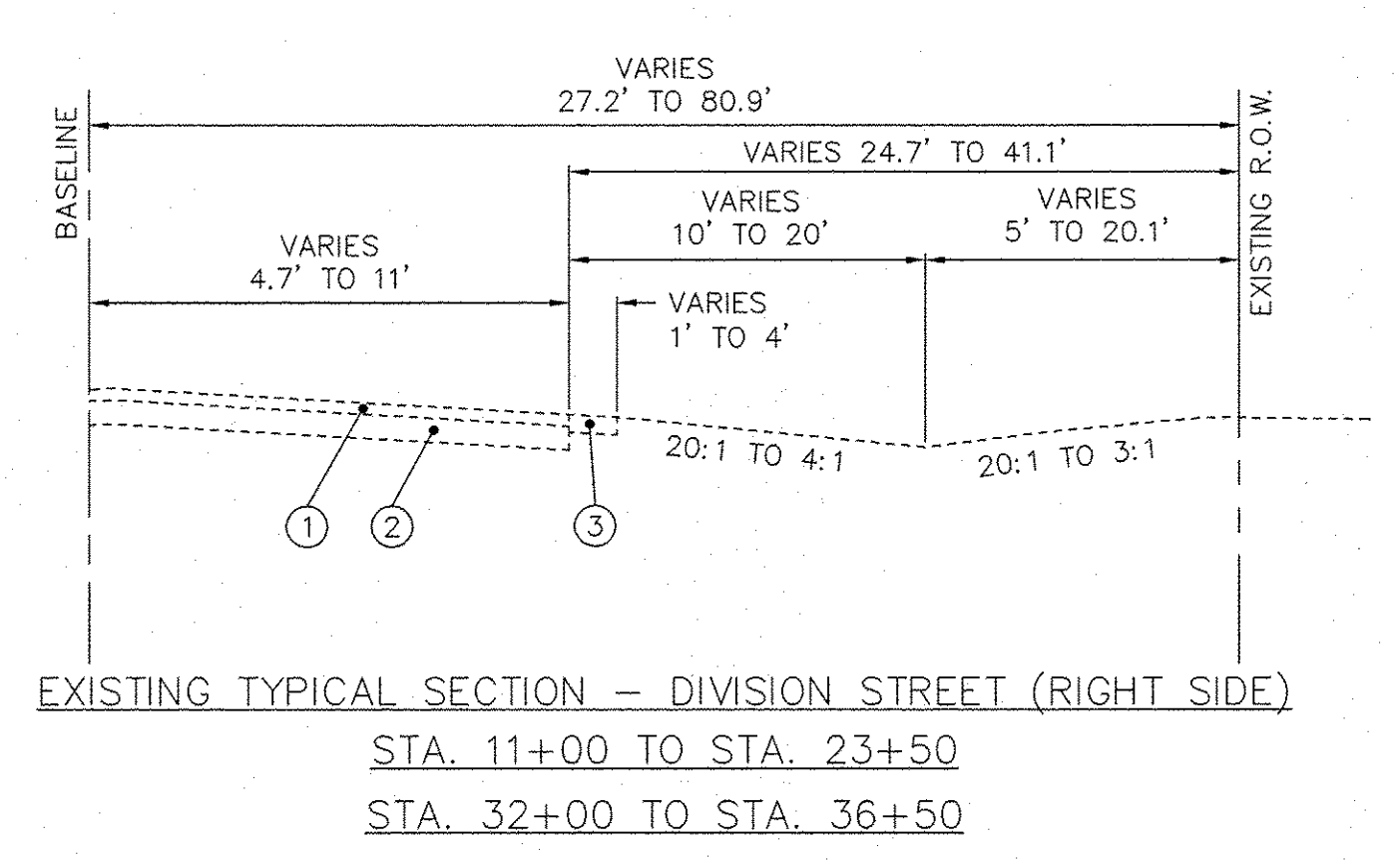
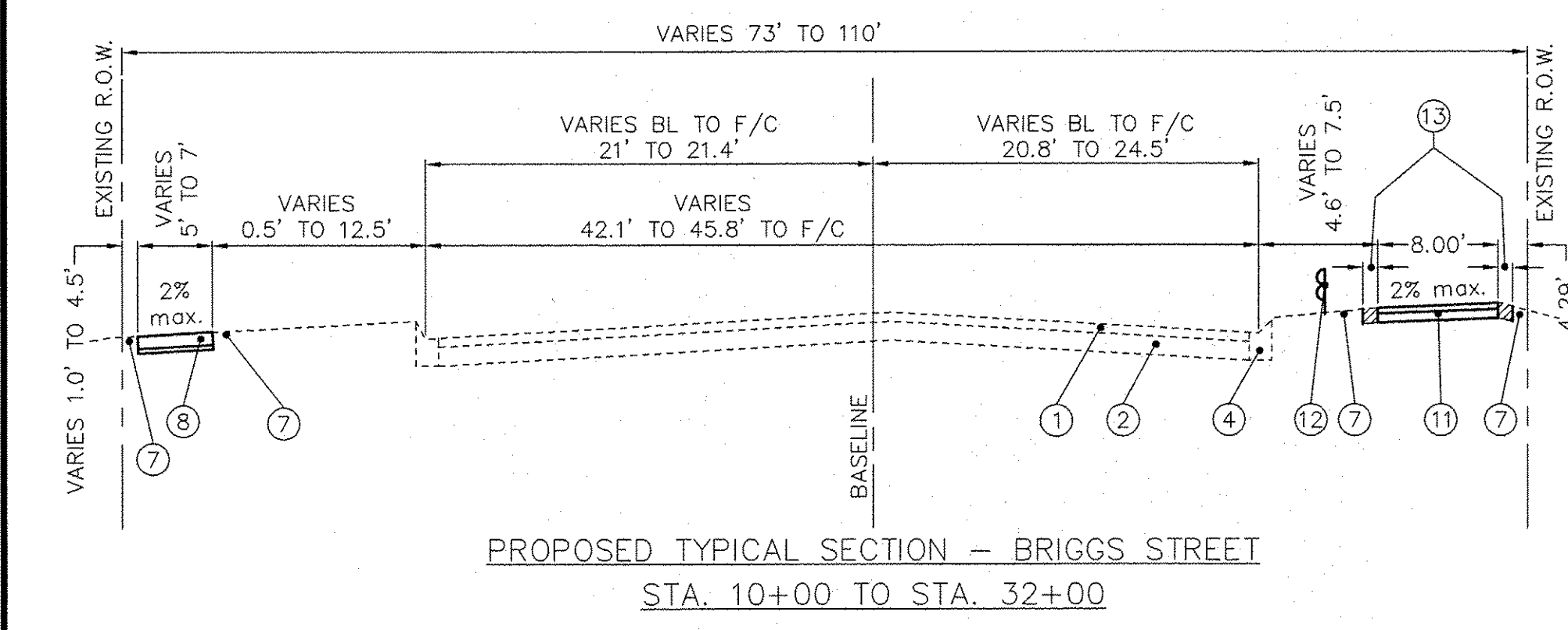
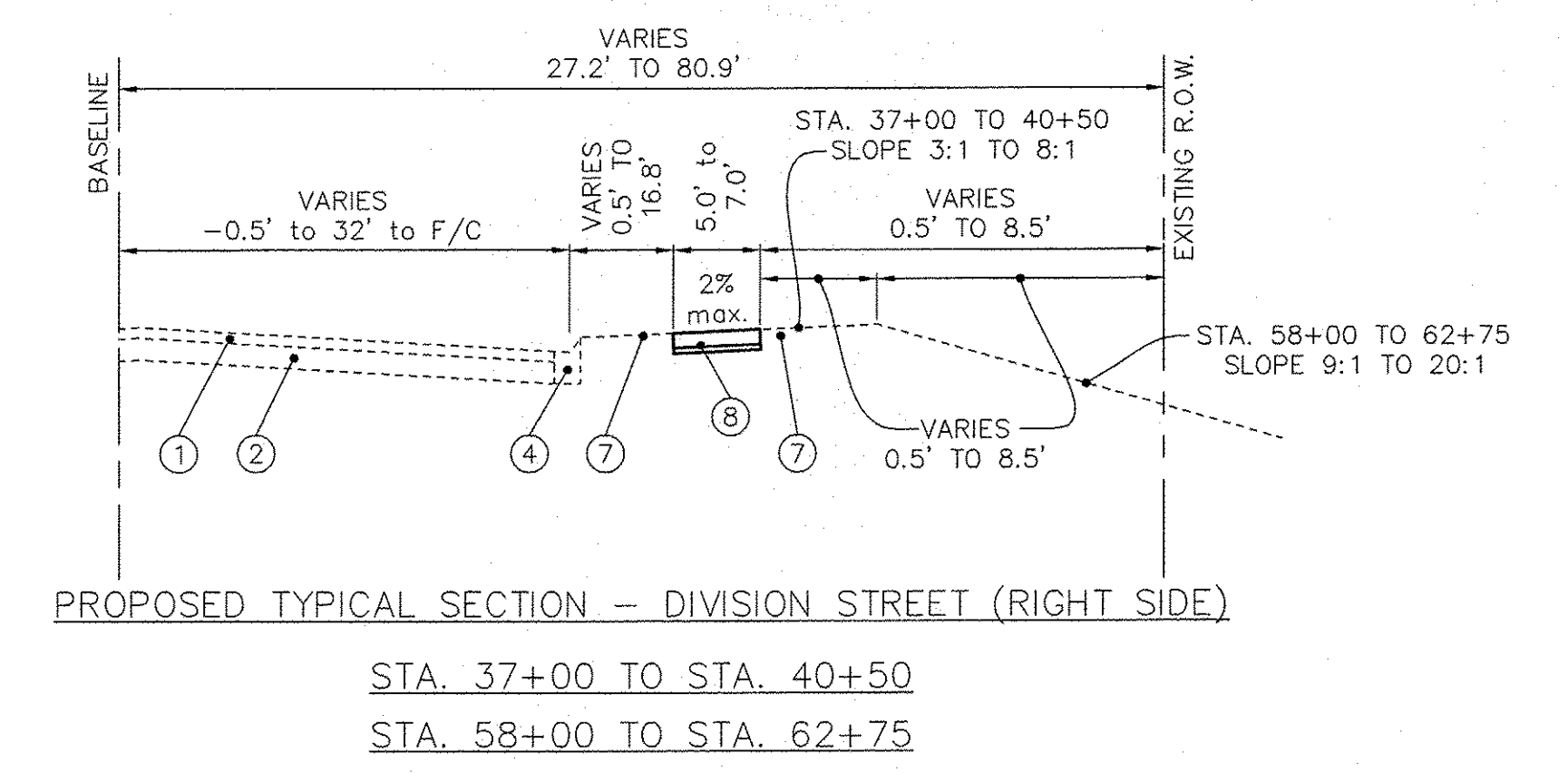
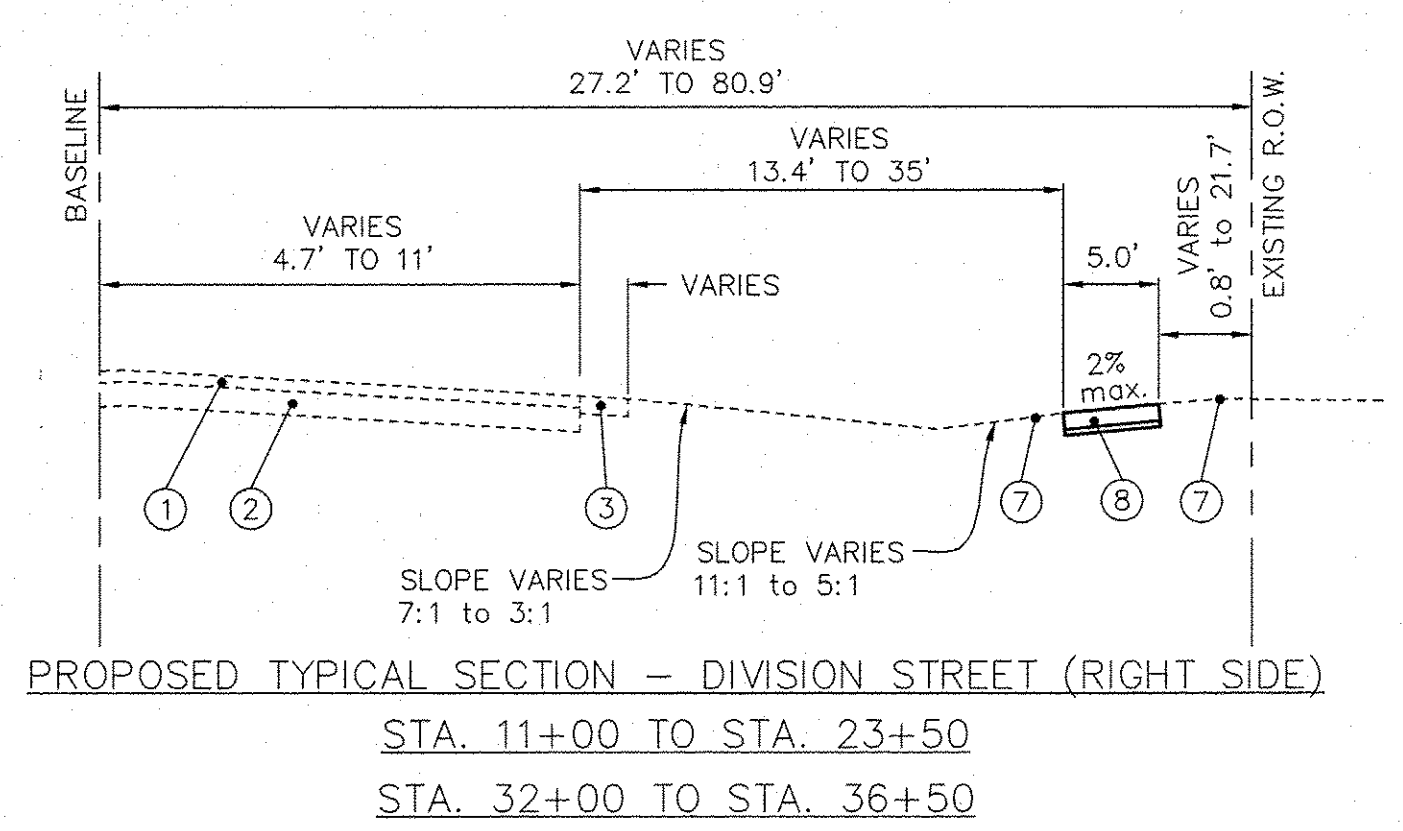
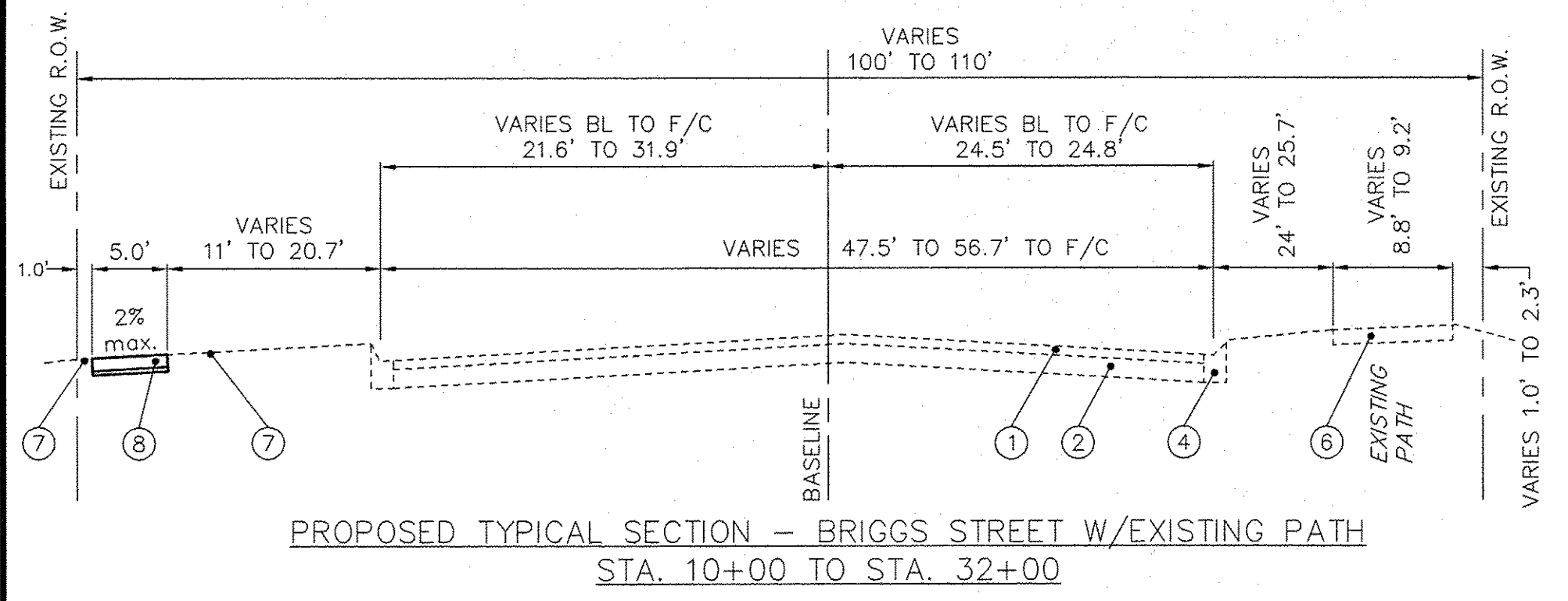
SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
					CMAQ FUND
					80% FED 20% STATE
					TRAIL
					0028
					URBAN
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	132	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	53	
	20100500	TREE REMOVAL, ACRES	ACRE	0.04	
	20101000	TEMPORARY FENCE	FOOT	58	
	20200100	EARTH EXCAVATION	CU YD	1089	
	20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	552	
	20800150	TRENCH BACKFILL	CU YD	170	
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2047	
*	25100630	EROSION CONTROL BLANKET	SQ YD	2047	
	28000305	TEMPORARY DITCH CHECKS	FOOT	147	
	28000400	PERIMETER EROSION BARRIER	FOOT	8393	
	28000500	INLET AND PIPE PROTECTION	EACH	31	
	28000510	INLET FILTERS	EACH	33	
	28100207	STONE RIPRAP, CLASS A4	TON	11.7	
	35101700	AGGREGATE BASE COURSE, TYPE B 5"	SQ YD	3534	
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12660	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	510	
	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	66.7	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	27320	
	42400800	DETECTABLE WARNINGS	SQ FT	406	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	870.8	
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	302	
	44000600	SIDEWALK REMOVAL	SQ FT	626	
	50105220	PIPE CULVERT REMOVAL	FOOT	251	
	52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1305	
	54205050	PIPE CULVERTS, SPECIAL 15"	FOOT	52	
	54205107	PIPE CULVERTS, SPECIAL 72"	FOOT	17	
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	353	
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	12	
*	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	6	
	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	4	

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
					CMAQ FUND
					80% FED 20% STATE
					TRAIL
					0028
					URBAN
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
	60255500	MANHOLES TO BE ADJUSTED	EACH	2	
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	5	
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	3	
	60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	111	
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	574	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	12	
	67100100	MOBILIZATION	LSUM	1	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1788	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	168	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	68	
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	78	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	876	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	940	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	
*	87900200	DRILL EXISTING HANDHOLE	EACH	4	
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	
*	88800100	PEDESTRIAN PUSH BUTTON	EACH	8	
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1	
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	
*	A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2 1/2" CALIPER BALLED AND BURLAPPED	EACH	5	
*	A2001028	TREE, ACER RUBRUM (BOWHALL), 3" CALIPER BALLED AND BURLAPPED	EACH	5	
*	A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEE TREE) 2 1/2" CALIPER BALLED AND BURLAPPED	EACH	6	
*	X2501000	SEEDING, CLASS 2A (SPECIAL)	ACRE	0.42	
*	X6330705	RUB RAIL	FOOT	574	
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	
*	X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	4	
*	Z0007124	STEEL RAILING (SPECIAL)	FOOT	182	
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	
	Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	120	
	Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	3	
	Z0076600	TRAINEES	HOURL	1000	0042
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	1000	0042
	XZ127902	RETAINING WALL, SPECIAL	SQ FT	589	

\* SPECIALTY ITEMS

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES BRIGGS STREET, DIVISION STREET AND FARRELL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	4
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			ILLINOIS FEDERAL AID PROJECT				
				SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.				





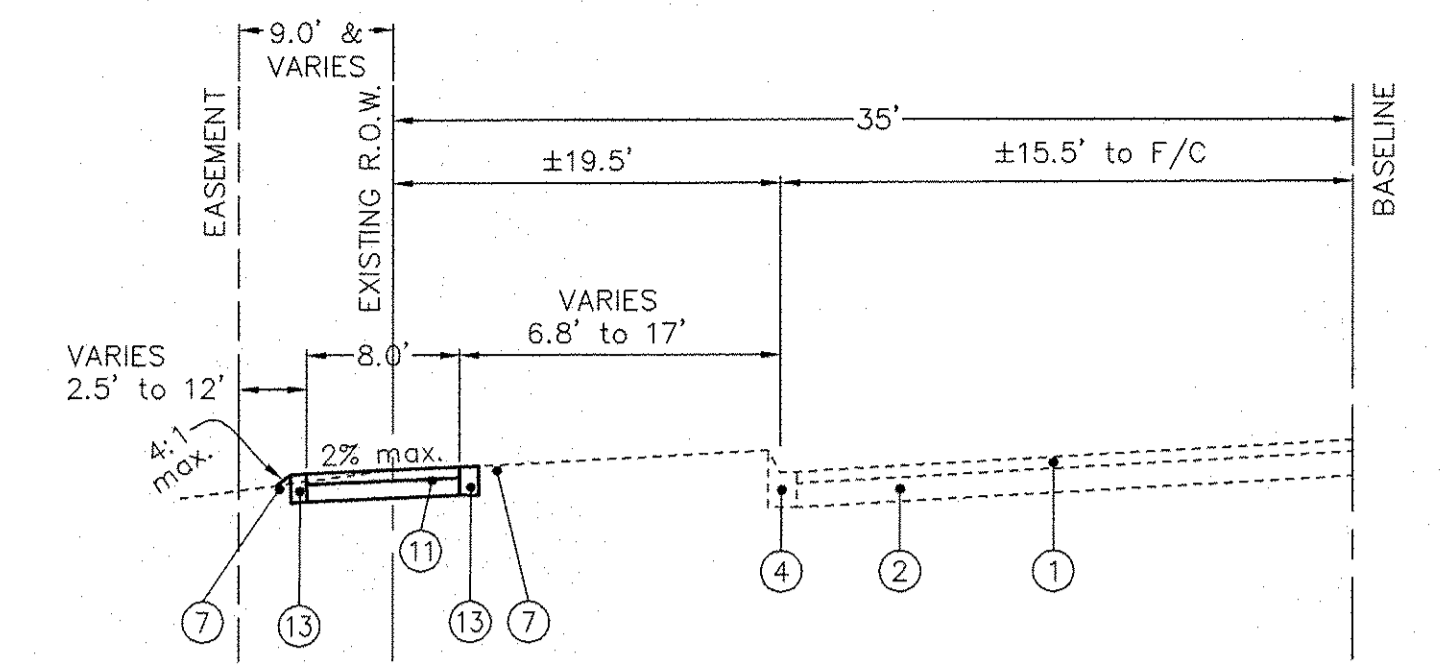
- LEGEND
- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, THICKNESS VARIES
  - ② EXISTING BITUMINOUS AGGREGATE MIX, THICKNESS VARIES
  - ③ EXISTING AGGREGATE SHOULDER, THICKNESS VARIES
  - ④ EXISTING CONCRETE CURB AND GUTTER
  - ⑤ EXISTING CONCRETE SIDEWALK
  - ⑥ EXISTING BITUMINOUS TRAIL, THICKNESS VARIES
  - ⑦ SEEDING, CLASS 2 A (SPECIAL)  
(INCLUDES 4" PULVERIZED TOPSOIL, FERTILIZER AND EROSION CONTROL BLANKET)  
(AT LOCATIONS DESIGNATED BY THE ENGINEER)
  - ⑧ PORTLAND CEMENT CONCRETE SIDEWALK 5", (SPECIAL)  
(AT ENTRANCES, THE SIDEWALK SHALL BE INCREASED TO THE THICKNESS OF OF THE DRIVEWAY PAVEMENT, COST INCLUDED IN THE P.C.C. SIDEWALK 5")
  - ⑨ SUB-BASE GRANULAR MATERIAL, TYPE B, 2"  
(COST INCLUDED IN THE P.C.C. SIDEWALK 5", SPECIAL)
  - ⑩ SEGMENTAL CONCRETE BLOCK WALL
  - ⑪ 3" HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50  
5" AGGREGATE BASE COURSE, TYPE B
  - ⑫ 3.5' STEEL BEAM GUARDRAIL, TYPE A, 9 FT POSTS (WHEN MULTI-USE PATH IS WITHIN 5' OF FACE OF CURB)
  - ⑬ 2' TURF AREA ON EITHER SIDE OF MULTI-USE PATH

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ N des
<b>DRIVEWAYS</b>	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.
<b>MULTI-USE PATH</b>	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.
<b>PATCHING</b>	
CLASS D PATCHES, (HMA SURFACE IL 19mm)	4% @ 70 Gyr.
<b>NOTES:</b>	
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.	
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC-TYPE" SHALL BE "PG 64-22".	

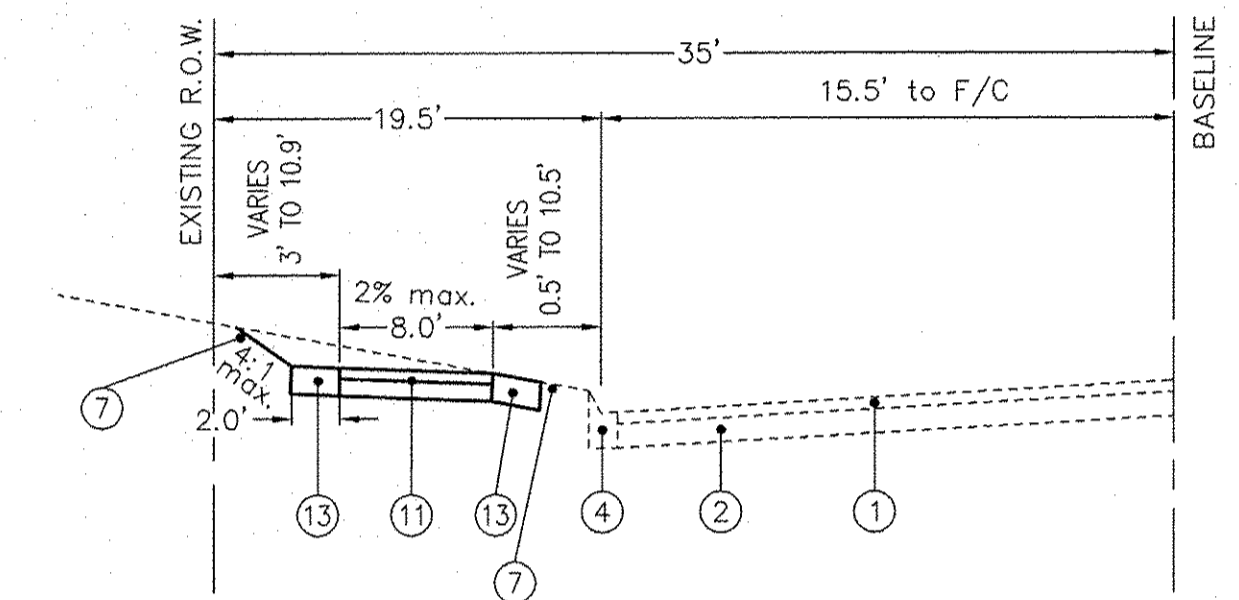
**RT & A** Ruettinger, Tonelli & Associates, Inc.  
 Surveyors\* Engineers\* Planners\* Landscape Architects\* G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettingertonelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016 **R.T. & A. Dwg. No.: 310-1076-C2**  
 FIELD BOOK & PAGE:

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN ECH @ RTA	CHECKED JPH @ RTA	REVISED		SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	363 / 291 / 366	10-00072-00-BT	WILL	93	5
	PLOT SCALE =	DATE 7-30-2015	REVISED		ILLINOIS FEDERAL AID PROJECT							
	PLOT DATE =											

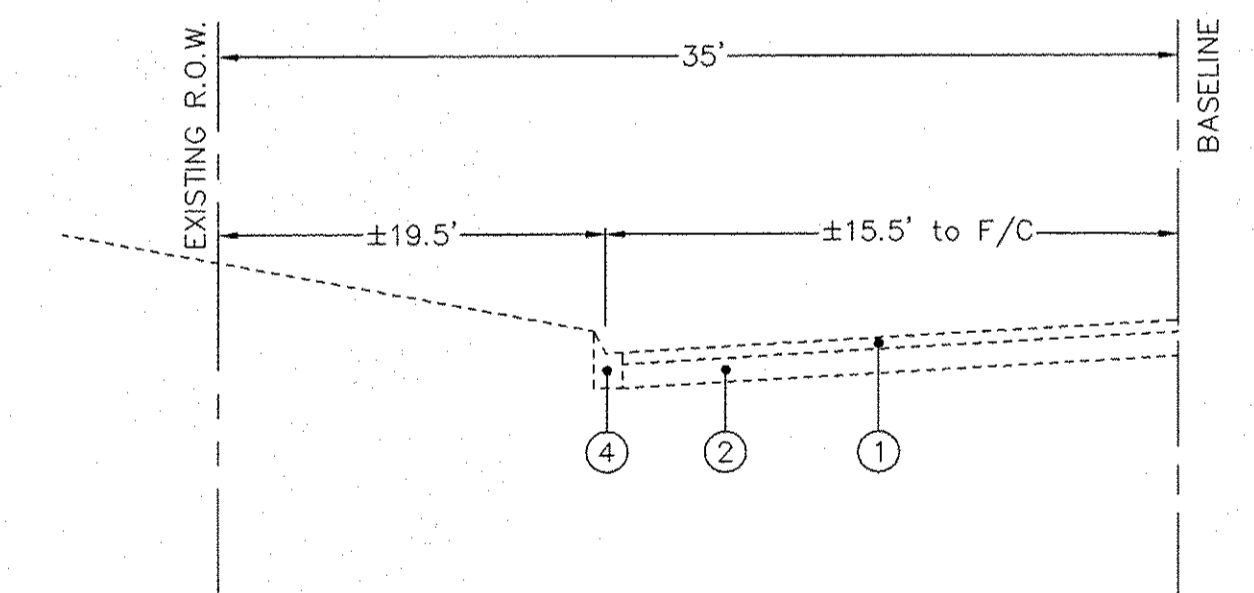




PROPOSED TYPICAL SECTION  
STA. 12+00 TO STA. 25+00, FARRELL ROAD (LEFT SIDE)



PROPOSED TYPICAL SECTION  
STA. 25+00 TO STA. 38+00, FARRELL ROAD (LEFT SIDE)



EXISTING TYPICAL SECTION  
STA. 12+00 TO STA. 38+00, FARRELL ROAD (LEFT SIDE)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ N des
<b>DRIVEWAYS</b>	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.
<b>MULTI-USE PATH</b>	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.
<b>PATCHING</b>	
CLASS D PATCHES, (HMA SURFACE IL 19mm)	4% @ 70 Gyr.
<b>NOTES:</b>	
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.	
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC-TYPE" SHALL BE "PG 64-22".	

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, THICKNESS VARIES
- ② EXISTING BITUMINOUS AGGREGATE MIX, THICKNESS VARIES
- ③ EXISTING AGGREGATE SHOULDER, THICKNESS VARIES
- ④ EXISTING CONCRETE CURB AND GUTTER
- ⑤ EXISTING CONCRETE SIDEWALK
- ⑥ EXISTING BITUMINOUS TRAIL, THICKNESS VARIES
- ⑦ SEEDING, CLASS 2 A (SPECIAL)  
(INCLUDES 4" PULVERIZED TOPSOIL, FERTILIZER AND EROSION CONTROL BLANKET)  
(AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑧ PORTLAND CEMENT CONCRETE SIDEWALK 5", (SPECIAL)  
(AT ENTRANCES, THE SIDEWALK SHALL BE INCREASED TO THE THICKNESS OF OF THE DRIVEWAY PAVEMENT, COST INCLUDED IN THE P.C.C. SIDEWALK 5")
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE B, 2"  
(COST INCLUDED IN THE P.C.C. SIDEWALK 5", SPECIAL)
- ⑩ SEGMENTAL CONCRETE BLOCK WALL
- ⑪ 3" HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50  
5" AGGREGATE BASE COURSE, TYPE B
- ⑫ 3.5" STEEL BEAM GUARDRAIL, TYPE A, 9 FT POSTS (WHEN MUTLI-USE PATH IS WITHIN 5' OF FACE OF CURB)
- ⑬ 2' TURF AREA ON EITHER SIDE OF MULTI-USE PATH

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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 6	
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FEDERAL AID PROJECT				
	PLOT DATE =	DATE 7-30-2015	REVISED									
CONTRACT NO. 61D48												



STA	DIST.	CUT	AVG CUT	VOL	FILL	AVG FILL	VOL	TOPSOIL PLACE	AVG PLACE	VOL	TOPSOIL STRIP	AVG STRIP	VOL
		SF	SF	CF	SF	SF	CF	SF	SF	CF	SF	SF	CF
1150		1.20	1.25	62.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.65	82.50
1200	50	1.30	1.15	57.50	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.65	82.50
1250	50	1.00	1.05	52.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1300	50	1.10	1.15	57.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1350	50	1.20	1.20	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1400	50	1.20	1.10	55.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1450	50	1.00	0.90	45.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1500	50	0.80	1.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
1550	50	1.20	0.60	30.00	0.00	0.00	0.00	0.00	3.00	150.00	1.70	1.4	70.00
1600	50	0.00	1.40	70.00	0.00	0.20	10.00	6.00	3.40	170.00	1.10	1.8	90.00
1650	50	2.80	3.05	152.50	0.40	0.95	47.50	0.80	1.75	87.50	2.50	3.45	172.50
1700	50	3.30	2.35	117.50	1.50	1.40	70.00	2.70	2.55	127.50	4.40	5.6	280.00
1750	50	1.40	0.70	35.00	1.30	7.75	387.50	2.40	2.25	112.50	6.80	5.85	292.50
1800	50	0.00	0.40	20.00	14.20	14.25	712.50	2.10	2.00	100.00	4.90	5.8	290.00
1850	50	0.80	1.05	52.50	14.30	7.50	375.00	1.90	0.95	47.50	6.70	4.15	207.50
1900	50	1.30	1.25	62.50	0.70	11.10	555.00	0.00	0.95	47.50	1.60	4.8	240.00
1950	50	1.20	1.20	60.00	21.50	19.60	980.00	1.90	2.00	100.00	8.00	7.65	382.50
2000	50	1.20	0.75	37.50	17.70	20.75	1037.50	2.10	2.10	105.00	7.30	7.7	385.00
2050	50	0.30	0.75	37.50	23.80	26.10	1305.00	2.10	2.10	105.00	8.10	7.9	395.00
2100	50	1.20	1.20	60.00	28.40	21.95	1097.50	2.10	2.10	105.00	7.70	7.4	370.00
2150	50	1.20	1.20	60.00	15.50	18.65	932.50	2.10	2.10	105.00	7.10	7.2	360.00
2200	50	1.20	1.20	60.00	21.80	21.10	1055.00	2.10	2.10	105.00	7.30	7.3	365.00
2250	50	1.20	1.70	85.00	20.40	10.20	510.00	2.10	1.05	52.50	7.30	4.5	225.00
2300	50	2.20	2.15	107.50	0.00	5.10	255.00	0.00	1.20	60.00	1.70	4.55	227.50
2350	50	2.10	3.00	150.00	10.20	9.80	490.00	2.40	2.70	135.00	7.40	7.65	382.50
2400	50	3.90	2.95	147.50	9.40	5.10	255.00	3.00	2.85	142.50	7.90	7.45	372.50
2450	50	2.00	1.25	62.50	0.80	0.40	20.00	2.70	1.80	90.00	7.00	4.8	240.00
2500	50	0.50	1.30	65.00	0.00	0.00	0.00	0.90	1.35	67.50	2.60	4.2	210.00
2550	50	2.10	1.65	82.50	0.00	0.10	5.00	1.80	1.65	82.50	5.80	5.1	255.00
2600	50	1.20	1.50	75.00	0.20	0.30	15.00	1.50	1.80	90.00	4.40	4.65	232.50
2650	50	1.80	1.10	55.00	0.40	0.95	47.50	2.10	2.25	112.50	4.90	3.8	190.00
2700	50	0.40	2.85	142.50	1.50	0.75	37.50	2.40	1.60	80.00	2.70	2.95	147.50
2750	50	5.30	4.40	220.00	0.00	0.00	0.00	0.80	0.50	25.00	3.20	4.1	205.00
2800	50	3.50	2.65	132.50	0.00	0.00	0.00	0.20	0.30	15.00	5.00	3.85	192.50
2850	50	1.80	3.95	197.50	0.00	0.00	0.00	0.40	0.80	40.00	2.70	4.4	220.00
2900	50	6.10	7.85	392.50	0.00	0.00	0.00	1.20	1.35	67.50	6.10	6.4	320.00
2950	50	9.60	8.70	435.00	0.00	0.00	0.00	1.50	1.45	72.50	6.70	6.65	332.50
3000	50	7.80	4.90	245.00	0.00	0.00	0.00	1.40	0.70	35.00	6.60	4.65	232.50
3050	50	2.00	2.05	102.50	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.7	135.00
3100	50	2.10	3.80	190.00	0.00	0.00	0.00	0.00	0.30	15.00	2.70	4.4	220.00
3150		5.50			0.00			0.60			6.10		
3200													

Cut	Fill/Embankment	Topsoil Placement	Topsoil Strip
CF 4182.50	CF 10200.00	CF 2650.00	CF 8915.00
CY 154.91	CY 377.78	CY 98.15	CY 330.19

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STA	DIST.	CUT			FILL			TOPSOIL PLACE			TOPSOIL STRIP		
		SF	AVG CUT SF	VOL CF	SF	AVG FILL SF	VOL CF	SF	AVG PLACE SF	VOL CF	SF	AVG STRIP SF	VOL CF
5050		0.00			0.00			0.00			0.00		
5100	50	1.20	0.60	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5150	50	1.50	1.35	67.50	0.00	0.00	0.00	0.40	0.20	10.00	2.10	1.05	52.50
5200	50	1.20	1.35	67.50	0.00	0.00	0.00	0.00	0.20	10.00	1.70	1.9	95.00
5250	50	1.10	1.15	57.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
5300	50	0.30	0.70	35.00	0.10	0.05	2.50	0.00	0.00	0.00	1.80	1.75	87.50
5350	50	1.20	0.75	37.50	0.00	0.05	2.50	0.00	0.00	0.00	0.00	0.9	45.00
5400	50	1.00	1.10	55.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5450	50	1.20	1.10	55.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.85	42.50
5500	50	1.20	1.20	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	42.50
5550	50	1.30	1.25	62.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.85	42.50
5600	50	1.00	1.15	57.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	42.50
5650	50	1.20	1.10	55.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.85	42.50
5700	50	1.50	1.35	67.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.7	85.00
5750	50	1.20	1.35	67.50	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.75	87.50
5800	50	0.00	0.60	30.00	1.50	0.75	37.50	1.30	0.65	32.50	1.70	1.75	87.50
5850	50	1.00	0.50	25.00	0.00	0.75	37.50	0.00	0.65	32.50	1.70	1.7	85.00
5900	50	0.40	0.70	35.00	0.00	0.00	0.00	0.20	0.10	5.00	1.70	1.7	85.00
5950	50	2.00	1.20	60.00	0.00	0.00	0.00	0.00	0.10	5.00	0.00	0.85	42.50
6000	50	1.90	1.95	97.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
6050	50	1.00	1.45	72.50	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.85	42.50
6100	50	1.10	1.05	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	42.50
6150	50	0.00	0.55	27.50	4.50	2.25	112.50	1.60	0.80	40.00	1.70	0.85	42.50
6200	50	0.10	0.05	2.50	0.80	2.65	132.50	0.20	0.90	45.00	1.80	1.75	87.50
6250	50	0.10	0.10	5.00	2.30	1.55	77.50	1.50	0.85	42.50	1.80	1.8	90.00
			<b>Cut</b>			<b>Fill/Embankment</b>			<b>Topsoil Placement</b>			<b>Topsoil Strip</b>	
			<b>CF 1177.50</b>			<b>CF 325.00</b>			<b>CF 180.00</b>			<b>CF 1265.00</b>	
			<b>CY 43.61</b>			<b>CY 12.04</b>			<b>CY 6.67</b>			<b>CY 46.85</b>	

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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EARTHWORK SCHEDULE OF QUANTITIES - DIVISION STREET BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN ECH @ RTA	REVISED				363 / 291 / 366	10-0072-00-BT	WILL	93	9
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED			CONTRACT NO. 61D48				
	PLOT DATE =	DATE 7-30-2015	REVISED	ILLINOIS FEDERAL AID PROJECT						







DRIVEWAY QUANTITY SCHEDULE						
STREET	STATION	OFFSET	EXISTING P.V.M.T.	DRIVEWAY PAVEMENT REMOVAL (SQ. YD)	STABILIZED DRIVEWAYS 10 INCHES (SQ. YD)	P.C.C. DRIVEWAY P.V.M.T. 8" INCHES (SQ. YD)
BRIGGS STREET	19+30	RT	HMA	95.4	46.7	
BRIGGS STREET	20+68	RT	HMA	26.1	13.3	
BRIGGS STREET	21+38	RT	HMA	26.0	12.4	
BRIGGS STREET	23+00	RT	HMA	24.0	12.2	
BRIGGS STREET	26+17	LT	HMA	25.0	15.0	
BRIGGS STREET	27+00	LT	HMA	33.8	13.0	
BRIGGS STREET	27+53	RT	HMA	59.7	35.0	
BRIGGS STREET	29+69	LT	HMA	27.9	10.4	
BRIGGS STREET	29+80	RT	HMA	39.1	23.2	
DIVISION STREET	14+13	RT	HMA	22.0	11.5	
DIVISION STREET	23+20	RT	HMA	78.8	53.1	
DIVISION STREET	51+01	RT	HMA	36.2	23.7	
DIVISION STREET	52+72	RT	HMA	18.0	11.4	
DIVISION STREET	53+53	RT	HMA	31.5	19.8	
DIVISION STREET	53+97	RT	HMA	18.7	11.2	
DIVISION STREET	54+14	RT	GRAVEL	26.5	15.8	
DIVISION STREET	55+05	RT	HMA	27.2	17.6	
DIVISION STREET	55+96	RT	HMA	31.3	17.3	
DIVISION STREET	56+87	RT	HMA	28.2	15.5	
DIVISION STREET	58+71	RT	HMA	27.3	17.2	
DIVISION STREET	59+52	RT	HMA	21.3	12.5	
DIVISION STREET	59+80	RT	HMA	19.8	11.5	
DIVISION STREET	61+08	RT	HMA	22.7	13.3	
FARRELL ROAD	15+08	LT	P.C.C. HMA	73.9 30.4		79.8

INLET AND PIPE PROTECTION			
STREET	STATION	OFFSET	QUANTITY (EACH)
BRIGGS STREET	15+32	30' LT	1
BRIGGS STREET	16+23	28' LT	1
DIVISION STREET	11+31	16' RT	1
DIVISION STREET	13+95	19' RT	1
DIVISION STREET	14+28	20' RT	1
DIVISION STREET	17+10	19' RT	1
DIVISION STREET	17+74	20' RT	1
DIVISION STREET	18+39	25' RT	1
DIVISION STREET	18+42	33' RT	1
DIVISION STREET	20+83	25' RT	1
DIVISION STREET	20+87	24' RT	1
DIVISION STREET	22+80	19' RT	1
DIVISION STREET	22+86	19' RT	1
DIVISION STREET	33+14	34' RT	1
DIVISION STREET	33+68	35' RT	1
DIVISION STREET	33+96	19' RT	1
DIVISION STREET	35+00	20' RT	1
DIVISION STREET	36+00	21' RT	1
DIVISION STREET	36+70	28' RT	1
DIVISION STREET	37+42	28' RT	1
DIVISION STREET	52+84	18' RT	1
DIVISION STREET	53+39	18' RT	1
DIVISION STREET	54+27	17' RT	1
DIVISION STREET	54+92	16' RT	1
DIVISION STREET	55+15	15' RT	1
DIVISION STREET	55+80	15' RT	1
DIVISION STREET	56+13	14' RT	1
DIVISION STREET	56+70	13' RT	1
DIVISION STREET	57+05	13' RT	1
DIVISION STREET	59+15	16' RT	1
DIVISION STREET	59+76	15' RT	1
DIVISION STREET	60+22	15' RT	1
DIVISION STREET	61+28	15' RT	1

INLET FILTERS			
STREET	STATION	OFFSET	QUANTITY (EACH)
BRIGGS STREET	11+63	29' LT	1
BRIGGS STREET	13+48	30' LT	1
BRIGGS STREET	15+26	25' LT	1
BRIGGS STREET	18+22	22' LT	1
BRIGGS STREET	18+28	24' RT	1
BRIGGS STREET	21+42	20' LT	1
BRIGGS STREET	21+56	24' RT	1
BRIGGS STREET	24+60	24' RT	1
BRIGGS STREET	28+97	21' LT	1
BRIGGS STREET	28+97	21' RT	1
BRIGGS STREET	31+52	26' RT	1
BRIGGS STREET	31+54	27' LT	1
DIVISION STREET	21+84	24' RT	1
DIVISION STREET	22+36	20' RT	1
DIVISION STREET	37+50	27' RT	1
DIVISION STREET	40+37	45' RT	1
DIVISION STREET	41+00	43' RT	1
DIVISION STREET	43+08	56' RT	1
DIVISION STREET	43+10	60' RT	1
DIVISION STREET	43+89	61' RT	1
DIVISION STREET	43+89	56' RT	1
DIVISION STREET	50+20	20' RT	1
DIVISION STREET	50+67	21' RT	1
FARRELL ROAD	12+96	15' LT	1
FARRELL ROAD	14+19	15' LT	1
FARRELL ROAD	21+15	16' LT	1
FARRELL ROAD	23+98	16' LT	1
FARRELL ROAD	26+03	15' LT	1
FARRELL ROAD	26+14	15' LT	1
FARRELL ROAD	28+48	16' LT	1
FARRELL ROAD	35+30	15' LT	1
FARRELL ROAD	35+39	15' LT	1
FARRELL ROAD	38+08	27.5' LT	1

WATER MAIN VALVES (VAULTS / BOX) ADJUSTMENTS			
STREET	STATION	OFFSET	QUANTITY (EACH)
BRIGGS STREET	18+16	30.0' RT	1 - VAULT
BRIGGS STREET	20+06	29.6' RT	1 - VAULT
BRIGGS STREET	26+87	32.0' RT	1 - BOX
DIVISION STREET	39+53	34.3' RT	1 - VAULT
FARRELL ROAD	28+96	24.2' LT	1 - BOX
FARRELL ROAD	29+17	29.0' LT	1 - VAULT
FARRELL ROAD	31+57	27.0' LT	1 - VAULT
FARRELL ROAD	33+00	24.6' LT	1 - BOX

WATER MAIN FIRE HYDRANT RELOCATION			
STREET	STATION	OFFSET	QUANTITY (EACH)
BRIGGS STREET	FROM 17+40 TO 16+72	32.8' RT 33.4' RT	1
BRIGGS STREET	FROM 21+64 TO 21+64	30.6' RT 26.7' RT	1
BRIGGS STREET	FROM 25+43 TO 25+43	31.7' RT 24.6' RT	1
DIVISION STREET	FROM 22+51 TO 22+51	34.0' RT 28.0' RT	1
DIVISION STREET	FROM 40+10 TO 41+14	37.7' RT 44.6' RT	1
FARRELL ROAD	FROM 28+96 TO 28+96	23.0' LT 19.3' LT	1

STORM SEWER MANHOLE ADJUSTMENTS			
STREET	STATION	OFFSET	QUANTITY (EACH)
BRIGGS STREET	28+97	36.0' RT	1
FARRELL ROAD	27+22	22.5' LT	1

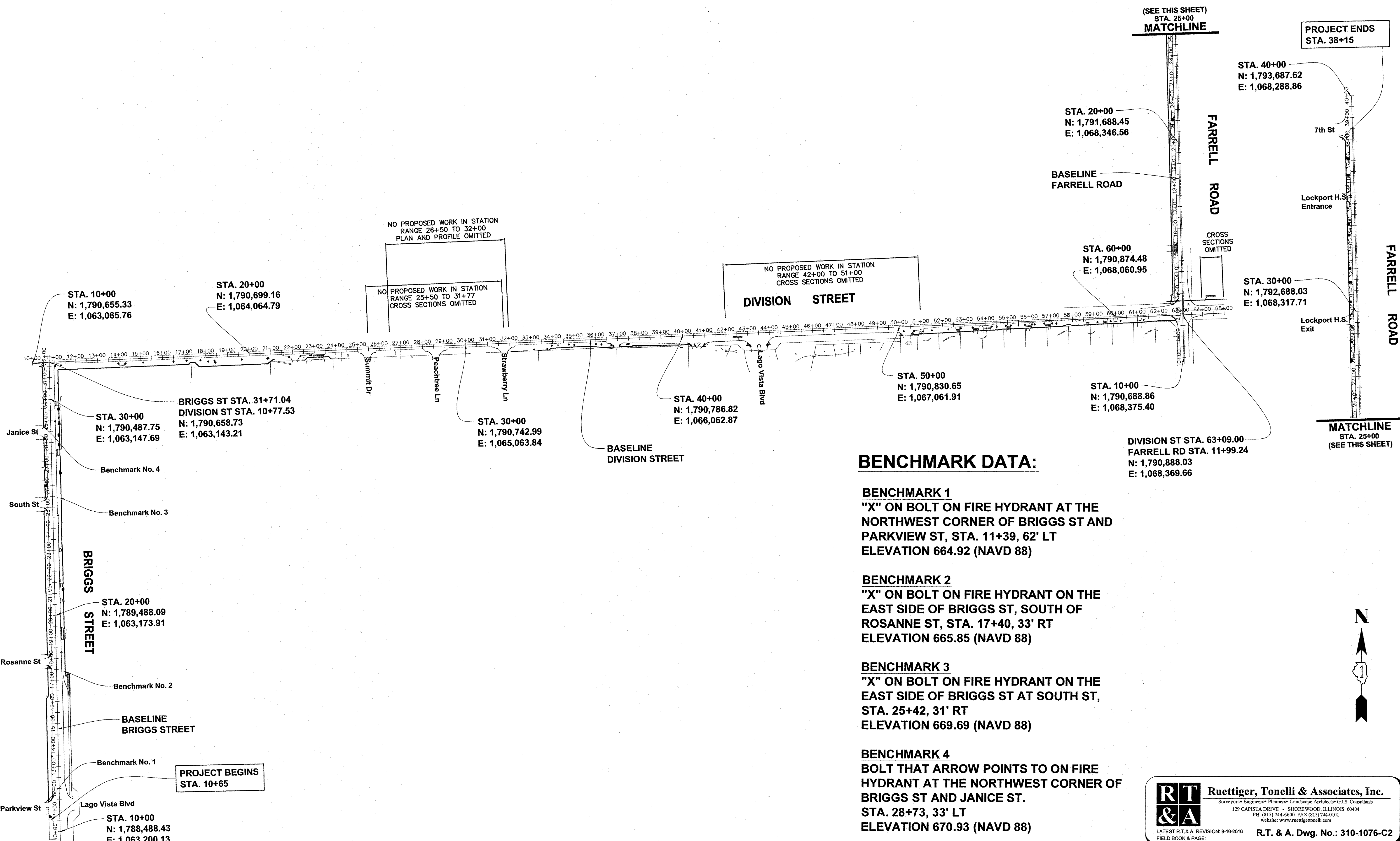
DRAINAGE STRUCTURES			
STREET	STATION	OFFSET	QUANTITY (EACH)
DIVISION STREET	17+10	19.0' RT	1 15" RCP FES W/GRATE
DIVISION STREET	17+74	19.9' RT	1 15" RCP FES W/GRATE
DIVISION STREET	33+14	34.0' RT	1 12" RCP FES W/GRATE
DIVISION STREET	33+75	34.0' RT	1 4' DIA. MANHOLE
DIVISION STREET	33+96	19.0' RT	1 4' DIA. MANHOLE
DIVISION STREET	35+00	20.3' RT	1 4' DIA. MANHOLE
DIVISION STREET	36+00	21.0' RT	1 4' DIA. MANHOLE
DIVISION STREET	36+70	28.0' RT	1 4' DIA. MANHOLE

TREE REMOVAL			
STREET	STATION	OFFSET	QUANTITY (UNIT)
BRIGGS STREET	21+18	38.0' RT	8
BRIGGS STREET	26+00	30.0' LT	18 STUMP
BRIGGS STREET	26+57	39.0' RT	9
BRIGGS STREET	27+89	36.0' RT	12
BRIGGS STREET	28+32	36.0' RT	14
BRIGGS STREET	28+85	39.0' RT	18
BRIGGS STREET	29+53	39.0' RT	17
FARRELL ROAD	21+04	23.8' LT	12
FARRELL ROAD	27+73	30.0' LT	6
FARRELL ROAD	28+60	29.0' LT	6
FARRELL ROAD	30+47	29.0' LT	8
FARRELL ROAD	31+37	26.0' LT	10
FARRELL ROAD	32+01	28.0' LT	10
FARRELL ROAD	33+55	27.0' LT	10
FARRELL ROAD	34+05	27.0' LT	10
FARRELL ROAD	36+33	24.0' LT	7
FARRELL ROAD	37+09	23.0' LT	10

TREE INSTALLMENT			
STREET	STATION	OFFSET	QUANTITY (UNIT)
BRIGGS STREET	17+19	44' RT	2 1/2"
BRIGGS STREET	26+66	38' RT	2 1/2"
BRIGGS STREET	27+83	38' RT	2 1/2"
BRIGGS STREET	28+41	38' RT	2 1/2"
BRIGGS STREET	29+12	38' RT	2 1/2"
BRIGGS STREET	29+60	38' RT	2 1/2"
FARRELL ROAD	20+75	24' LT	2 1/2"
FARRELL ROAD	27+81	33.5' LT	2 1/2"
FARRELL ROAD	28+67	33.5' LT	2 1/2"
FARRELL ROAD	30+47	33.5' LT	2 1/2"
FARRELL ROAD	31+38	33.5' LT	2 1/2"
FARRELL ROAD	32+00	33.5' LT	2 1/2"
FARRELL ROAD	33+55	33.5' LT	2 1/2"
FARRELL ROAD	34+06	33.5' LT	2 1/2"
FARRELL ROAD	36+34	33.5' LT	2 1/2"
FARRELL ROAD	37+10	33.5' LT	2 1/2"

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 LATEST R.T. & A. REVISION: 9-16-2016  
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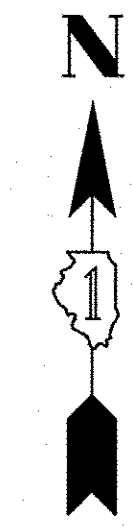
**BENCHMARK DATA:**

**BENCHMARK 1**  
 "X" ON BOLT ON FIRE HYDRANT AT THE NORTHWEST CORNER OF BRIGGS ST AND PARKVIEW ST, STA. 11+39, 62' LT ELEVATION 664.92 (NAVD 88)

**BENCHMARK 2**  
 "X" ON BOLT ON FIRE HYDRANT ON THE EAST SIDE OF BRIGGS ST, SOUTH OF ROSANNE ST, STA. 17+40, 33' RT ELEVATION 665.85 (NAVD 88)

**BENCHMARK 3**  
 "X" ON BOLT ON FIRE HYDRANT ON THE EAST SIDE OF BRIGGS ST AT SOUTH ST, STA. 25+42, 31' RT ELEVATION 669.69 (NAVD 88)

**BENCHMARK 4**  
 BOLT THAT ARROW POINTS TO ON FIRE HYDRANT AT THE NORTHWEST CORNER OF BRIGGS ST AND JANICE ST. STA. 28+73, 33' LT ELEVATION 670.93 (NAVD 88)



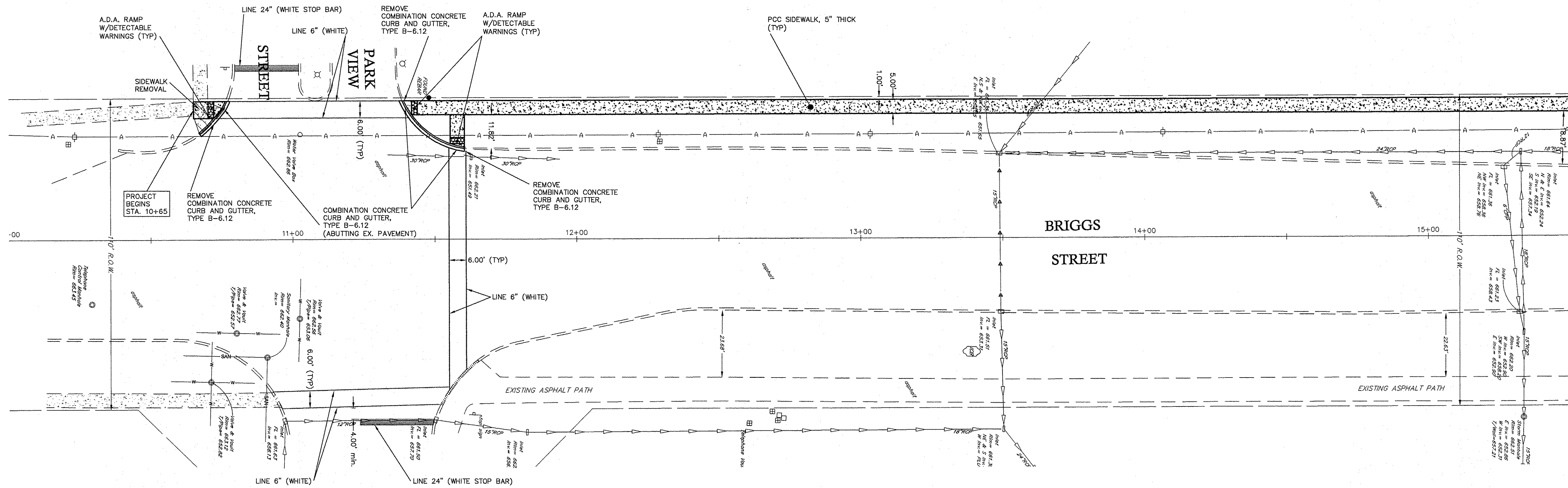
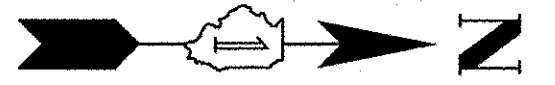
FILE NAME =	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
		CHECKED JPH @ RTA	REVISED
		DATE 7-30-2015	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT, TIES AND BENCHMARKS</b>	
<b>BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	
SCALE: 1" = 200'	SHEET NO. 1 OF 1 SHEETS
STA. _____	TO STA. _____

F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 12
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	

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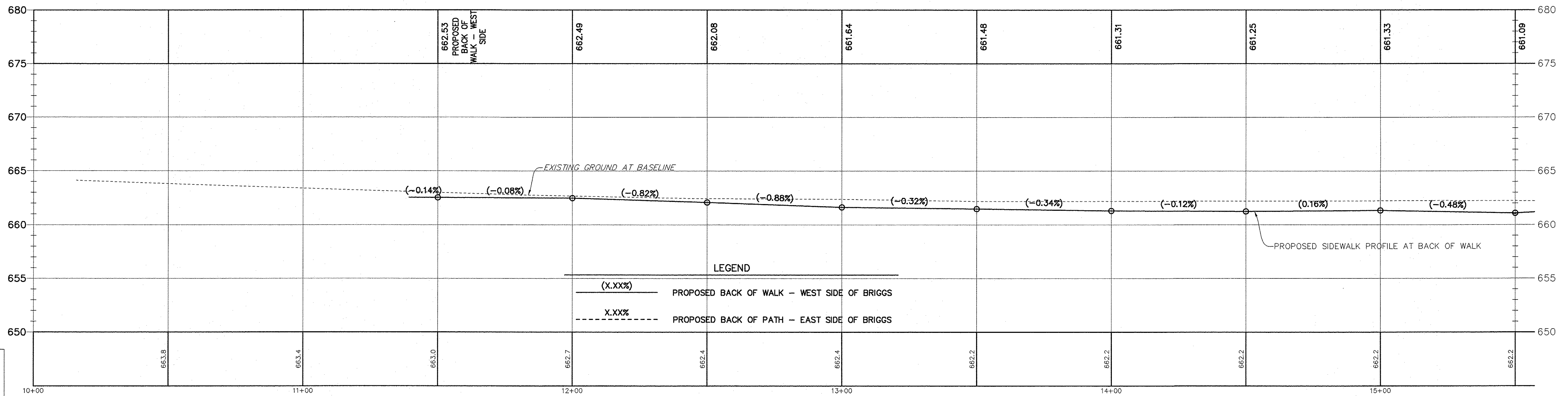
**PLAN OF BRIGGS STREET**

SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF BRIGGS STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

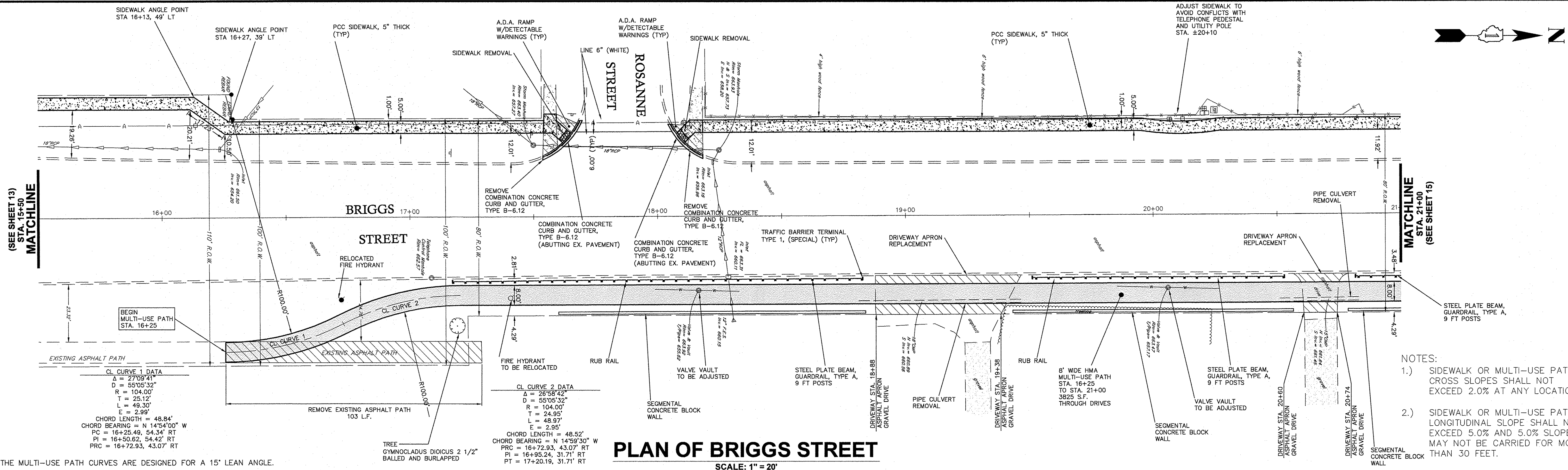


**LEGEND**  
 XXX.X AT PROPOSED ELEVATION  
 XXX.X AT BASELINE ELEVATION  
 XXXXX AT PROPOSED BACK OF PATH ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIGGS STREET - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 13	
PLOT SCALE =	CHECKED JPH @ RTA	REVISED	REVISED		1" = 20' H	SHEET NO. 1 OF 4 SHEETS	STA. 10+00 TO STA. 15+50	CONTRACT NO. 61D48				
PLOT DATE =	DATE 7-30-2015	REVISED	REVISED		SCALE: 1" = 5' V	ILLINOIS FEDERAL AID PROJECT						
<p style="text-align: center;">ILLINOIS FEDERAL AID PROJECT</p>												

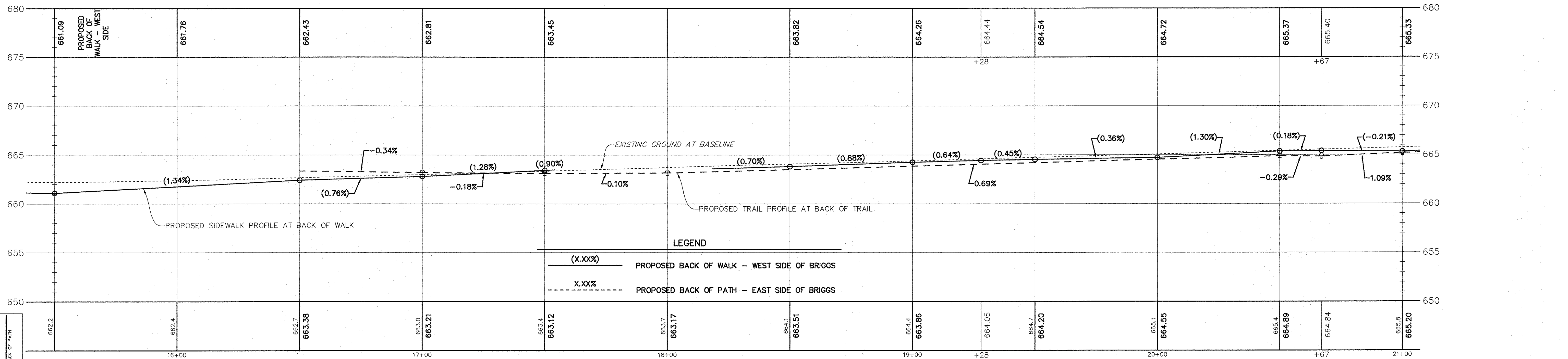




NOTE: THE MULTI-USE PATH CURVES ARE DESIGNED FOR A 15° LEAN ANGLE.

**PROFILE OF BRIGGS STREET**

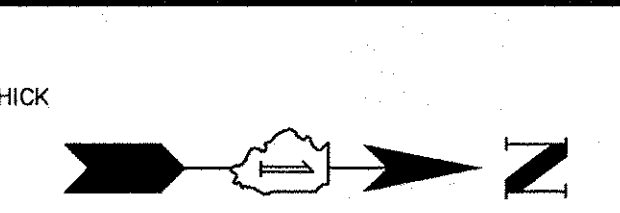
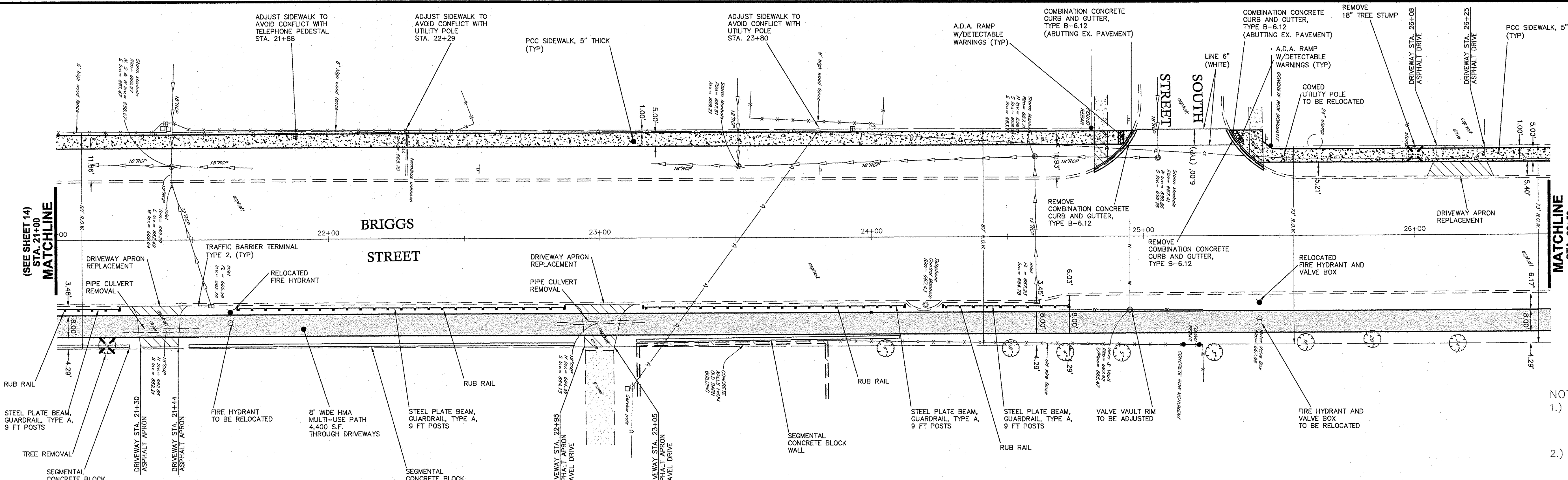
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



LEGEND  
 XXX.XX PROPOSED ELEVATION  
 XXX.X AT BASELINE  
 XXX.XX PROPOSED BACK OF PATH  
 XXX.XX ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIGGS STREET - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 14	
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED		1" = 20' H		SHEET NO. 2 OF 4 SHEETS		STA. 15+50 TO STA. 21+00		ILLINOIS FEDERAL AID PROJECT	
	PLOT DATE =	DATE 7-30-2016	REVISED		SCALE: 1" = 5' V		CONTRACT NO. 61D48					



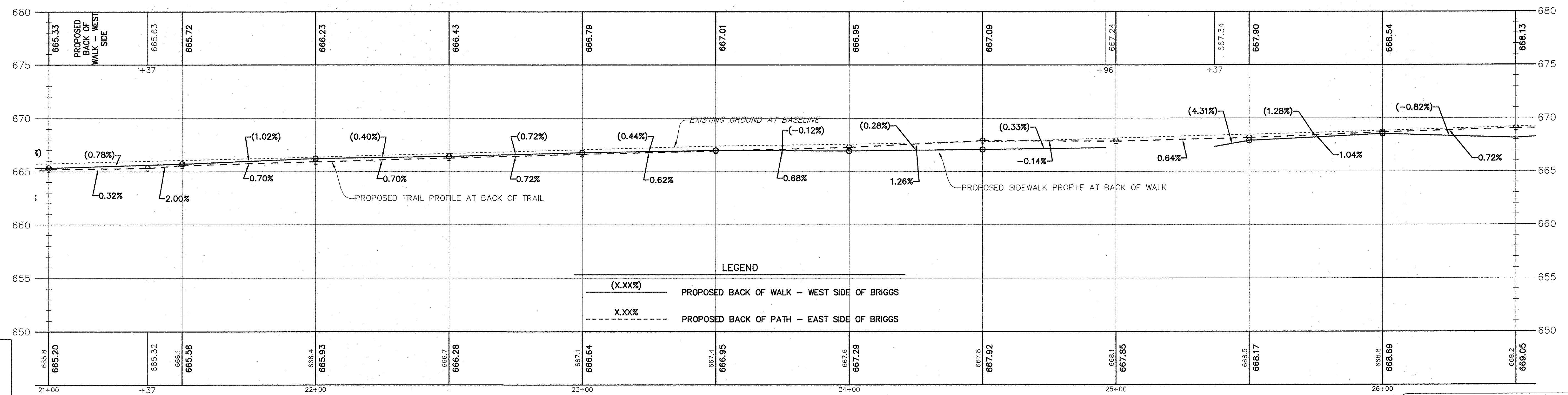
**PLAN OF BRIGGS STREET**

SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF BRIGGS STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



LEGEND

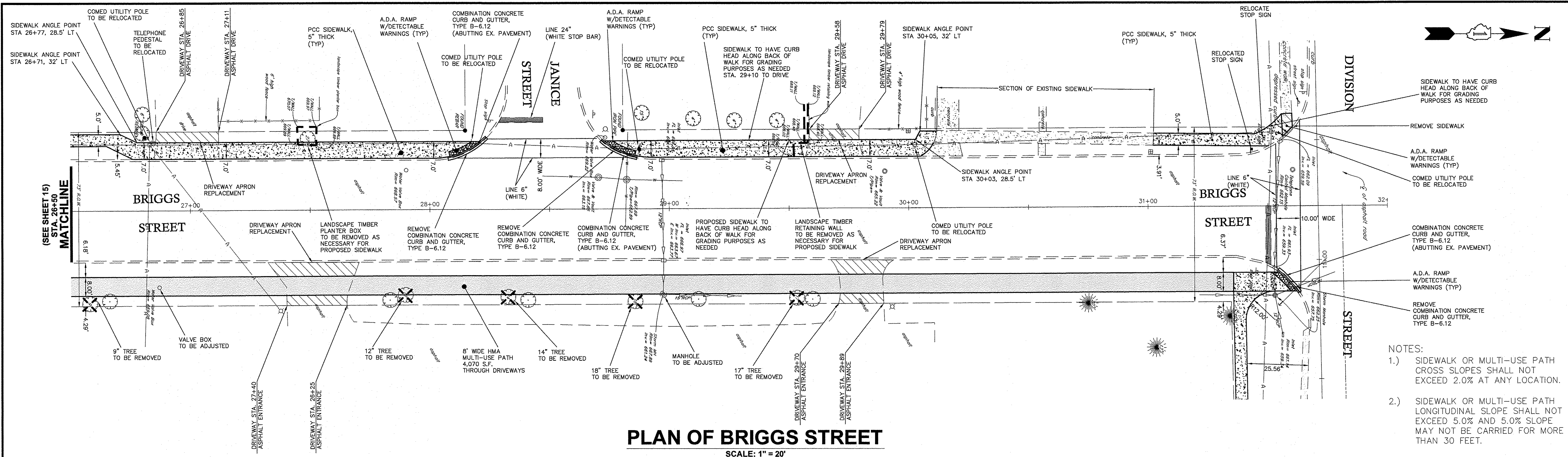
(X.XX%)	PROPOSED BACK OF WALK - WEST SIDE OF BRIGGS
- - - X.XX%	PROPOSED BACK OF PATH - EAST SIDE OF BRIGGS

LEGEND  
XXX.X AT BASELINE ELEVATION  
XXX.XX PROPOSED BACK OF PATH ELEVATION  
ROAD CENTERLINE STATION

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 website: www.ruettiger-tonelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIGGS STREET - PLAN AND PROFILE</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		1" = 20' H		363 / 291 / 366	10-00072-00-BT	WILL	93	15
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V		SHEET NO. 3 OF 4 SHEETS		STA. 21+00 TO STA. 26+50		CONTRACT NO. 61D48

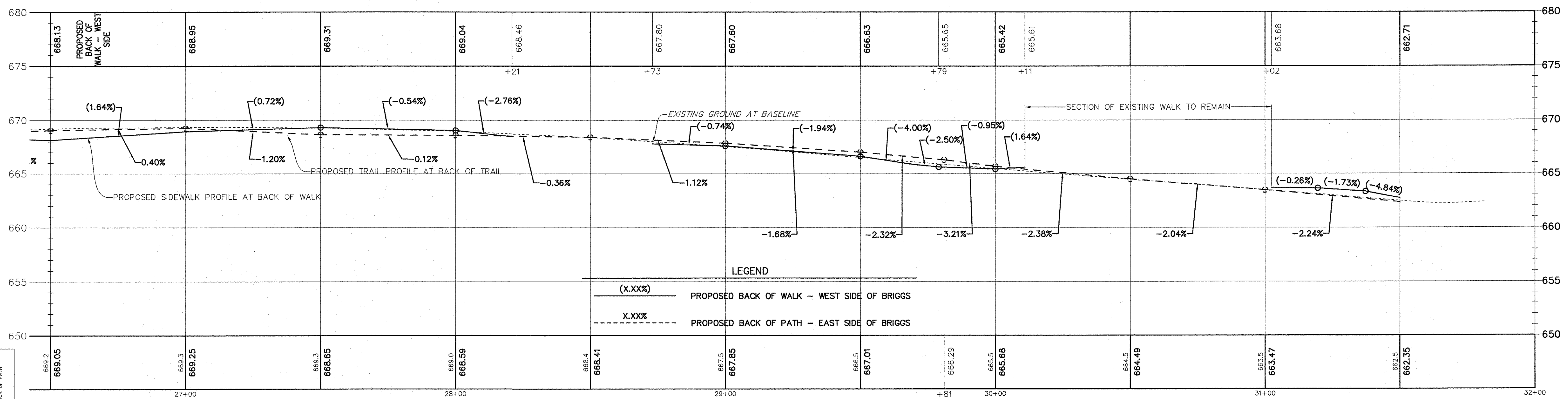




- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF BRIGGS STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



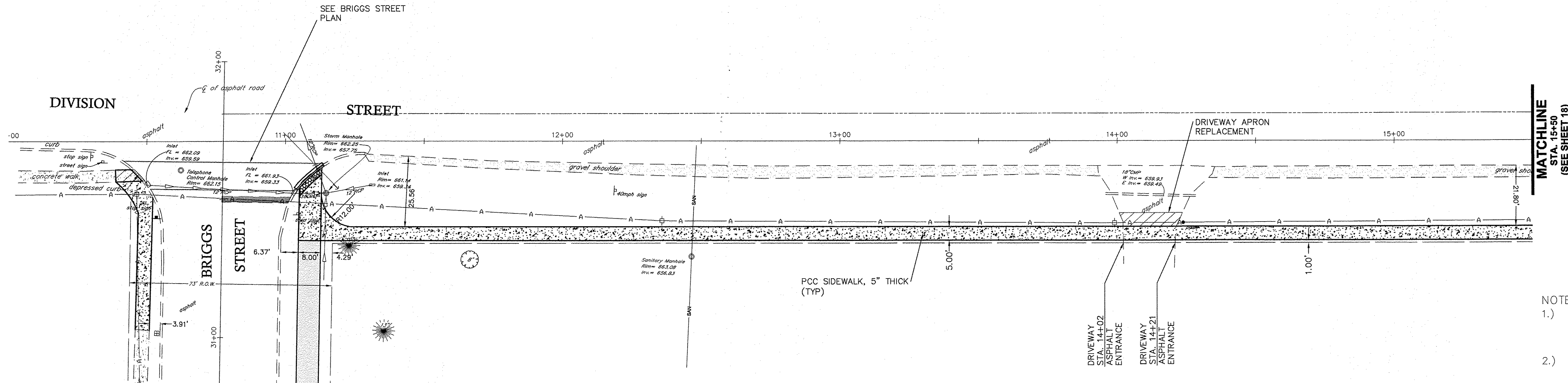
LEGEND

(X.XX%)	PROPOSED BACK OF WALK - WEST SIDE OF BRIGGS
X.XX%	PROPOSED BACK OF PATH - EAST SIDE OF BRIGGS

LEGEND  
 XXX.XX% EXISTING GROUND ELEVATION  
 XXX.XX% PROPOSED BACK OF PATH ELEVATION  
 ROAD CENTERLINE STATION

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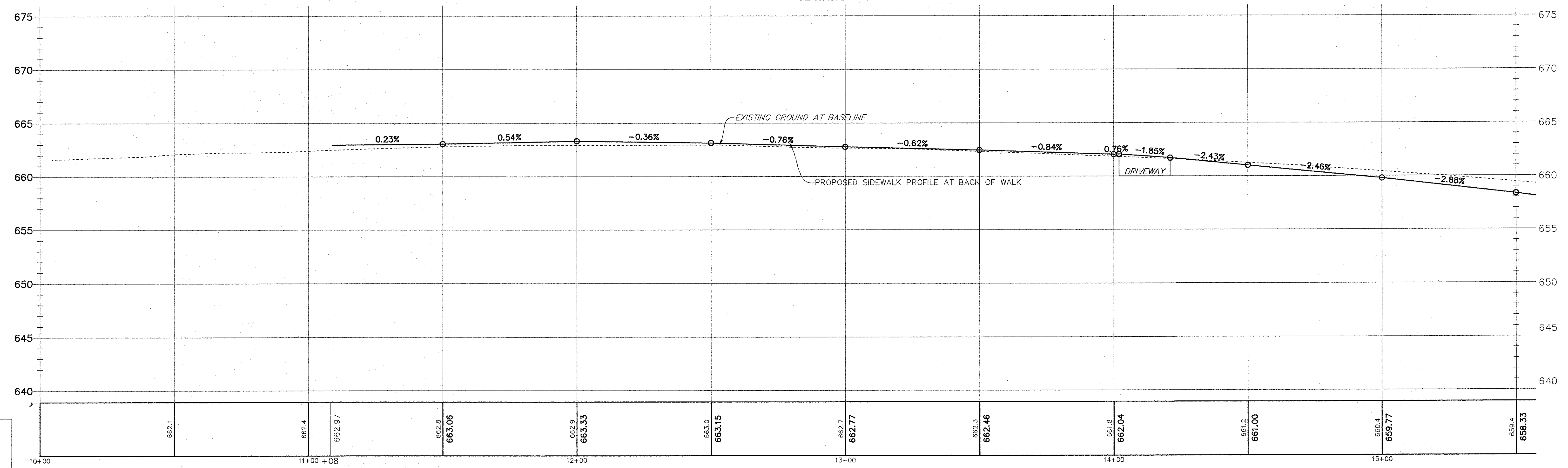
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIGGS STREET - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	16	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 5' V	SHEET NO. 4 OF 4 SHEETS	CONTRACT NO. 61D48	ILLINOIS FEDERAL AID PROJECT		
		DATE 7-30-2015	REVISED			STA. 26+50 TO STA. 32+00					



**PLAN OF DIVISION STREET**  
SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

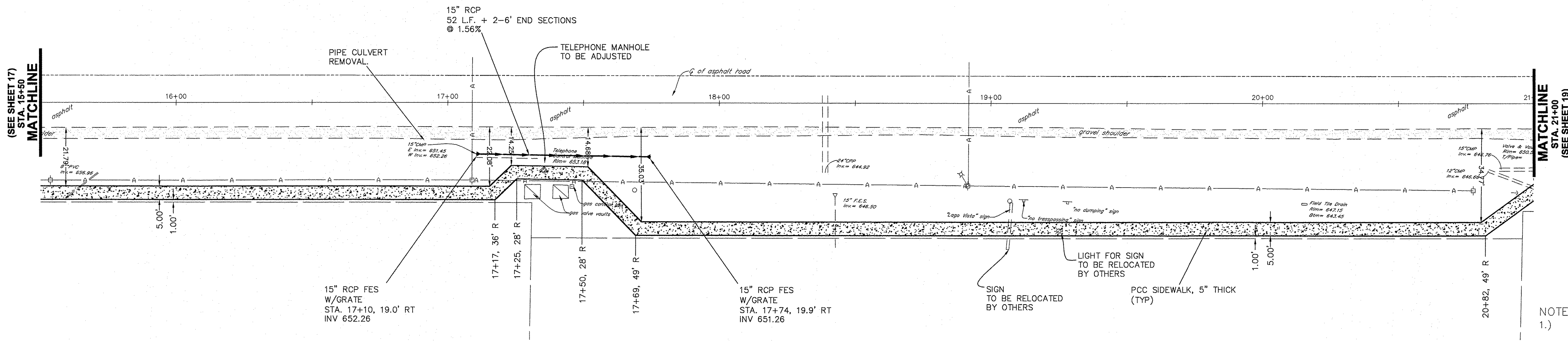


**LEGEND**  
 XXXX ROAD ELEVATION  
 XXXX AT BASELINE  
 XXXX PROPOSED BACK OF PATH  
 XXXX ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-0072-00-BT	WILL	93	17	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 5' V SHEET NO. 1 OF 9 SHEETS STA. 10+00 TO STA. 15+50		CONTRACT NO. 61D48		ILLINOIS FEDERAL AID PROJECT	
		DATE 7-30-2015	REVISED								



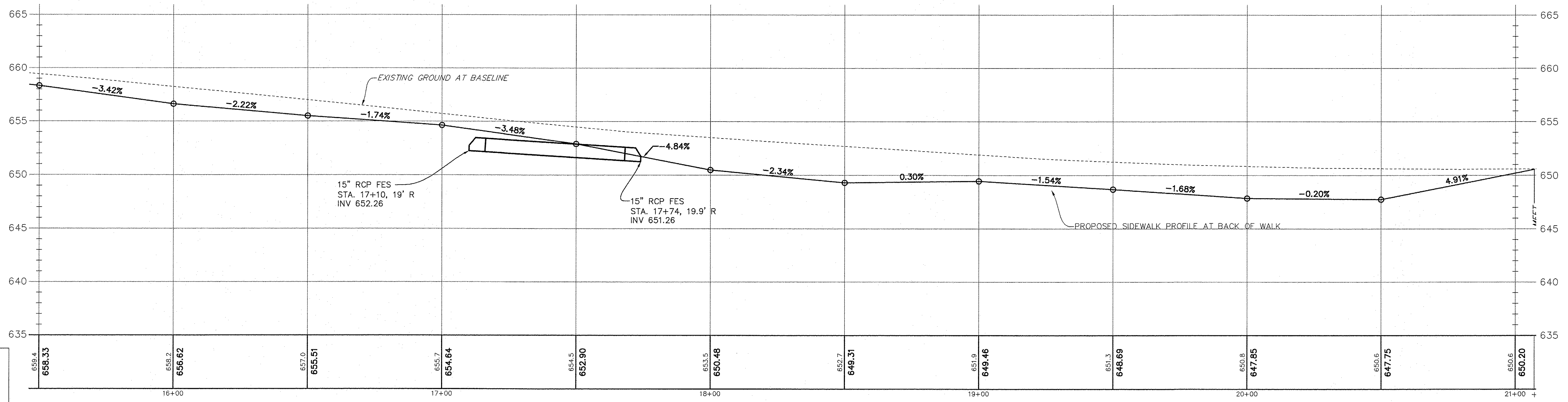


**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

**PROFILE OF DIVISION STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

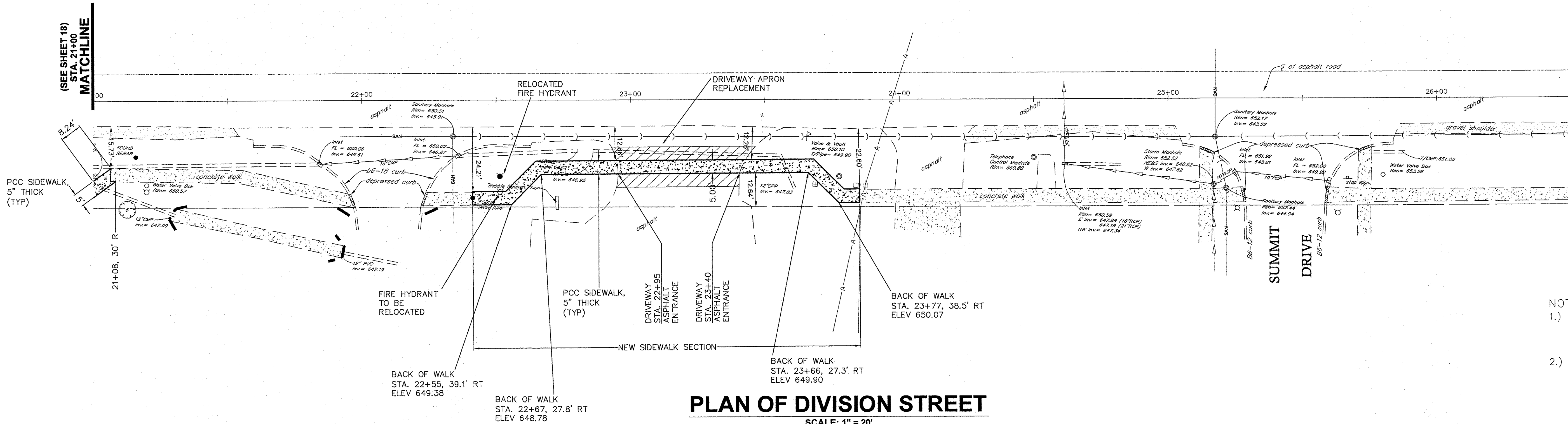


- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**LEGEND**  
 XXX.X AT BASELINE  
 XXXXX AT BACK OF PATH  
 ROAD CENTERLINE STATION

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: 1" = 20' H	1" = 5' V	SHEET NO. 2 OF 9 SHEETS	STA. 15+50 TO STA. 21+00	CONTRACT NO. 61D48	ILLINOIS FEDERAL AID PROJECT		
	PLOT DATE =	CHECKED JPH @ RTA	REVISED									
		DATE 7-30-2015	REVISED									



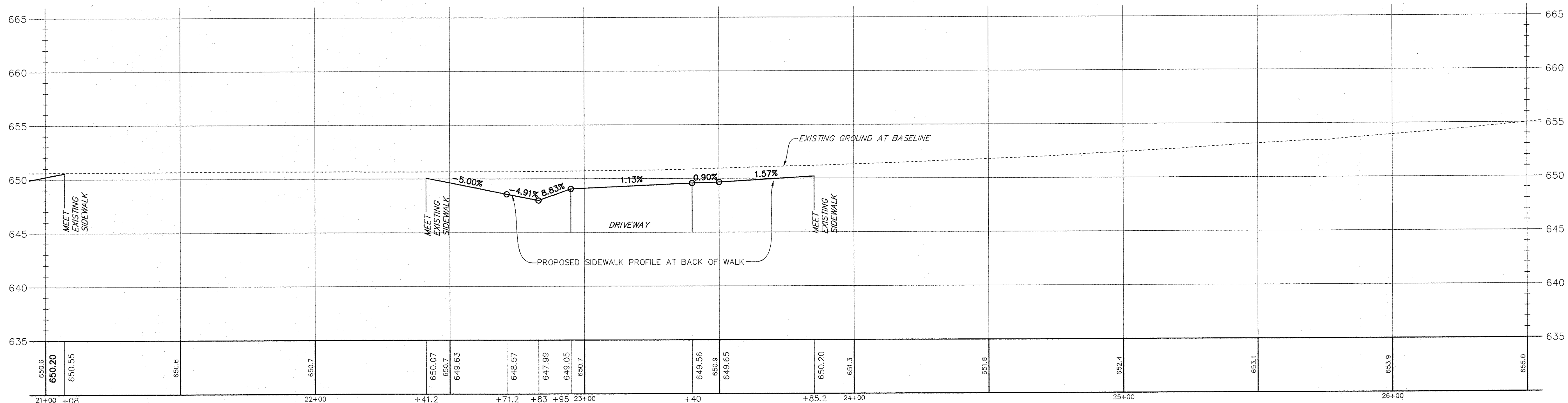
**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
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**PROFILE OF DIVISION STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

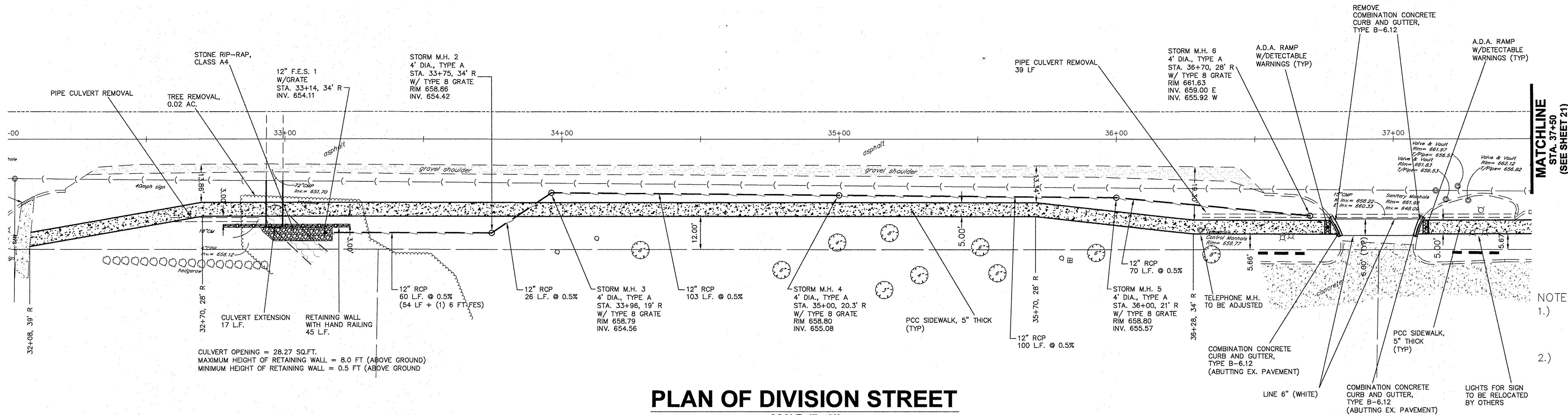


**LEGEND**  
 XXXX ROUND ELEVATION  
 XXXX AT BASELINE  
 XXXX PROPOSED BACK OF PATH  
 XXXX ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME =	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIVISION STREET - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISION			363 / 291 / 366	10-00072-00-BT	WILL	93	19
PLOT DATE =	CHECKED JPH @ RTA	REVISION	REVISION	SCALE: 1" = 20' H 1" = 5' V	SHEET NO. 3 OF 9 SHEETS	STA. 21+00 TO STA. 26+50	ILLINOIS FEDERAL AID PROJECT			
	DATE 7-30-2015	REVISION	REVISION				CONTRACT NO. 61D48			

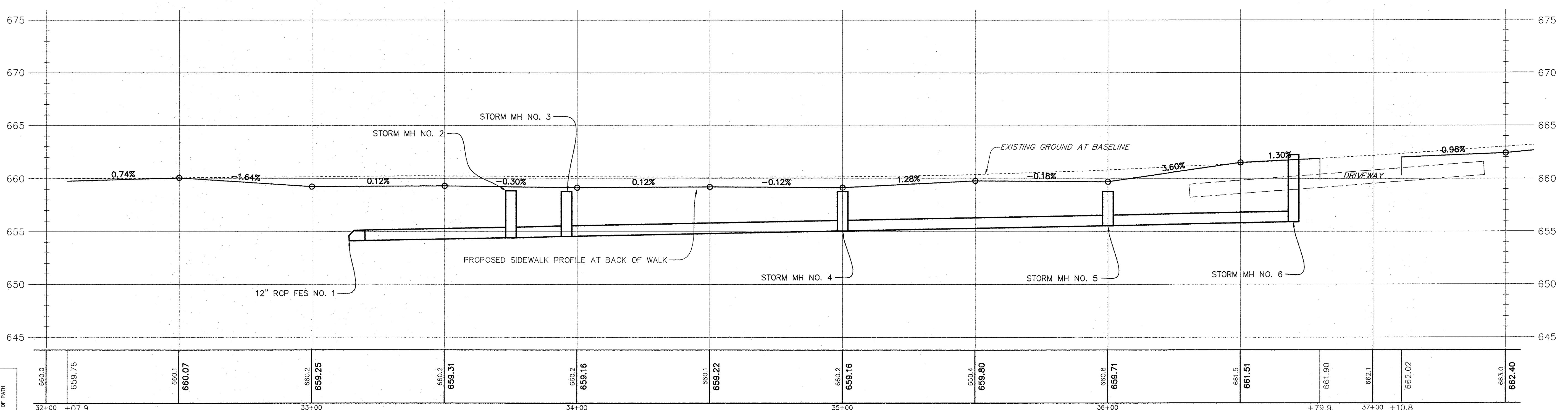




**PLAN OF DIVISION STREET**  
SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
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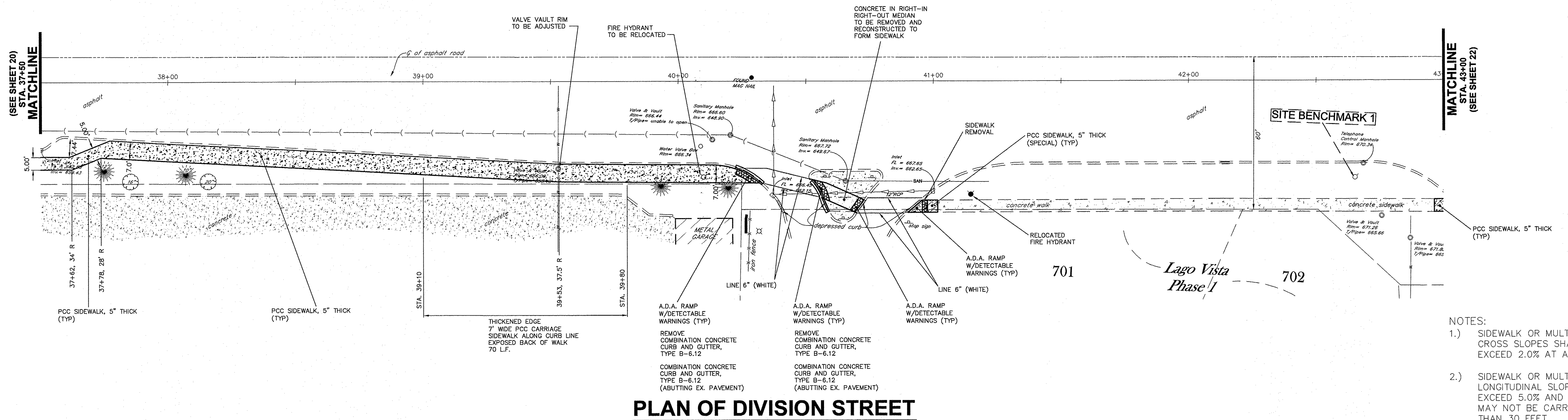
**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**LEGEND**  
 XXXX EXISTING GROUND ELEVATION  
 XXXX AT BASELINE  
 XXXX ELEVATION  
 ROAD CENTERLINE STATION

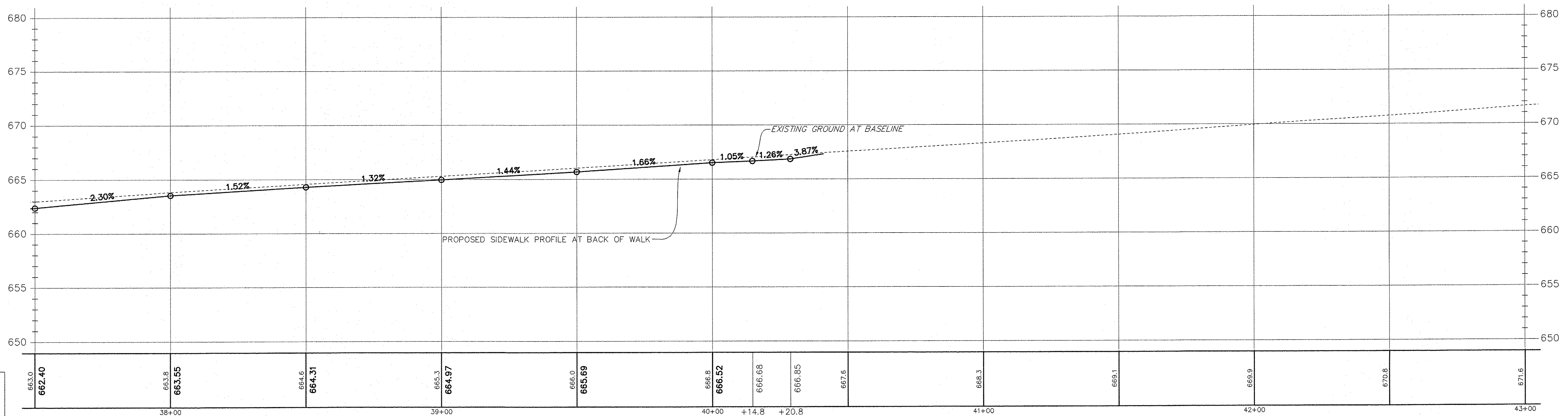
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V	1" = 20' H	STA. 32+00 TO STA. 37+50	ILLINOIS FEDERAL AID PROJECT		CONTRACT NO. 61D48		
	PLOT DATE =	DATE 7-30-2015	REVISED		SHEET NO. 4 OF 9 SHEETS							



- NOTES:
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**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

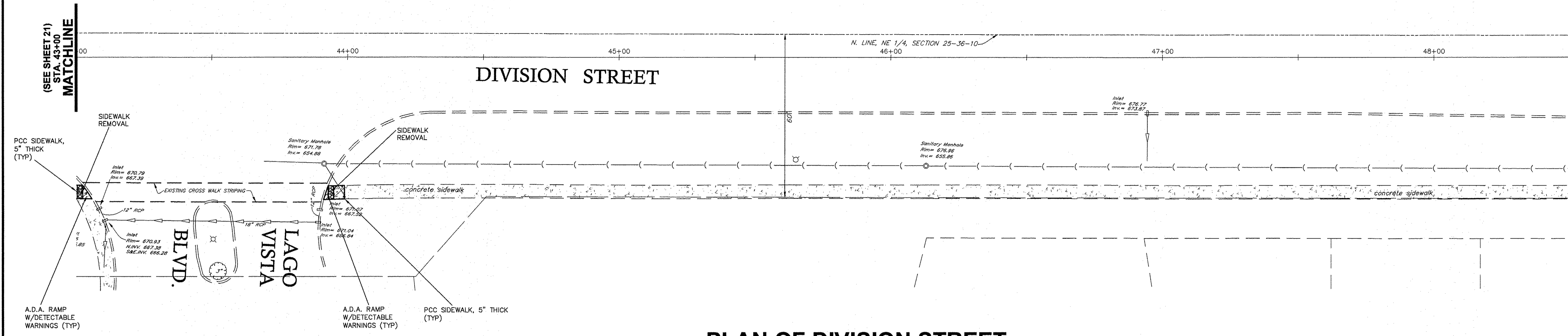


**LEGEND**  
 XXXX AT BASELINE ELEVATION  
 XXXX AT PROPOSED BACK OF PAIR  
 XXXX ELEVATION  
 ROAD CENTERLINE STATION

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	21	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			CONTRACT NO. 61D48					
		DATE 7-30-2016	REVISED			ILLINOIS FEDERAL AID PROJECT					

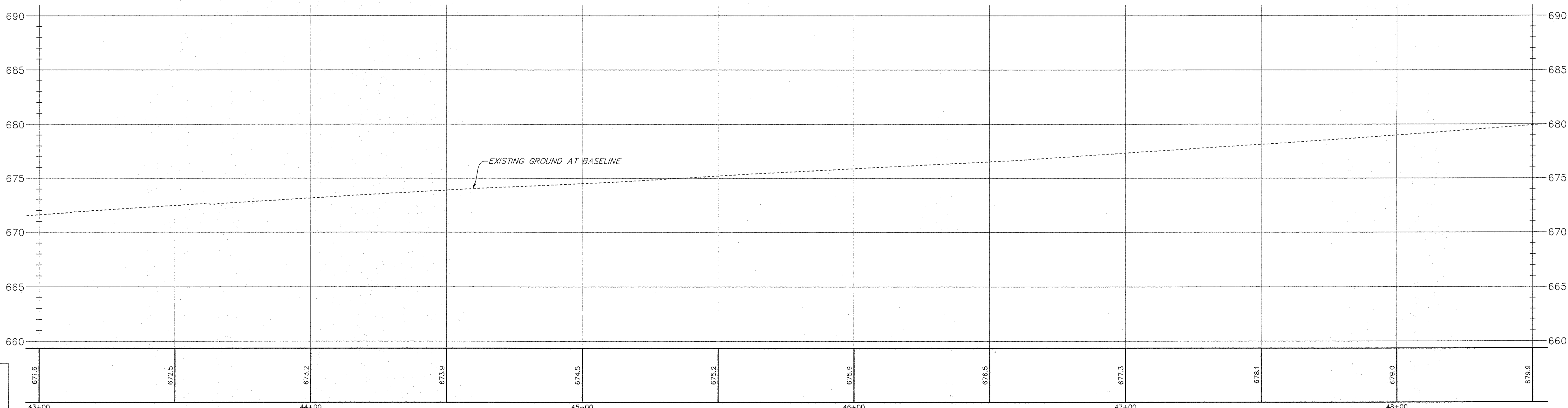




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**PLAN OF DIVISION STREET**  
SCALE: 1" = 20'

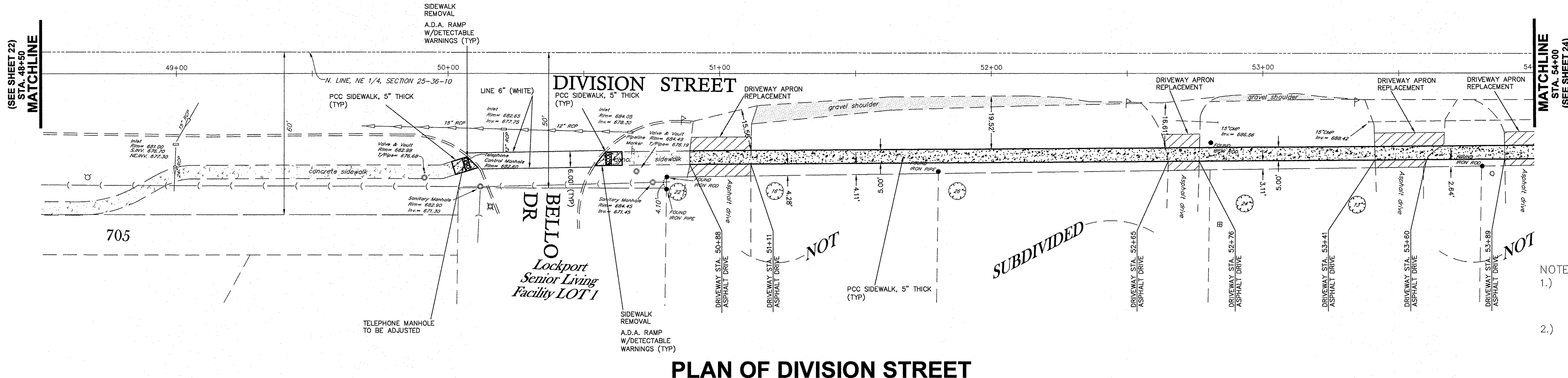
**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**LEGEND**  
 XXX.XX AT BASELINE  
 XXXXX AT BACK OF PATH  
 XXXXX ELEVATION  
 ROAD CENTERLINE STATION

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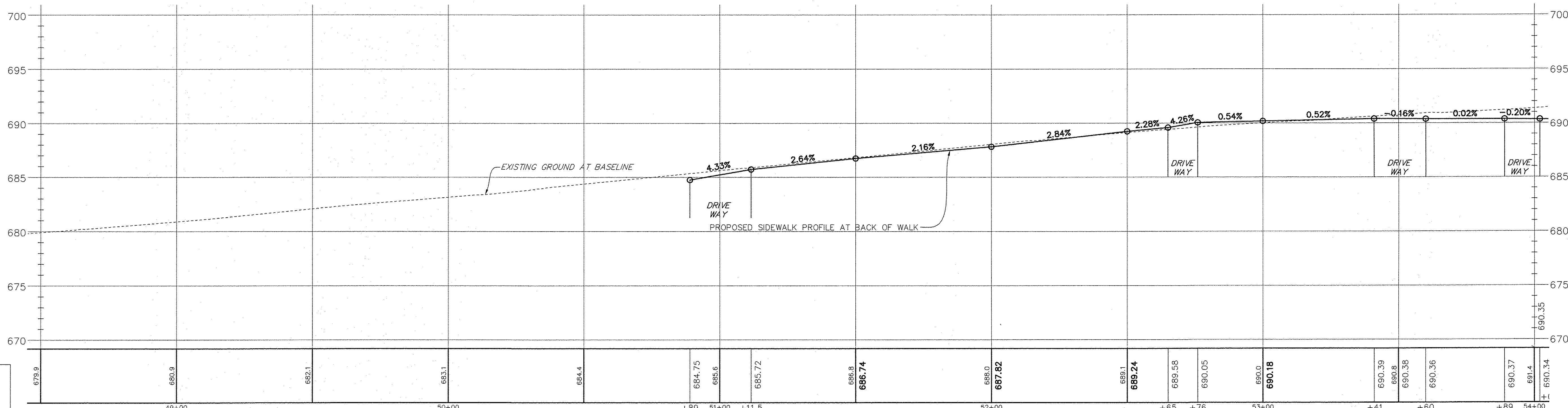
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		1" = 20' H	363 / 291 / 366	10-00072-00-BT	WILL	93	22		
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V	SHEET NO. 6 OF 9 SHEETS STA. 43+00 TO STA. 48+50			CONTRACT NO. 61D48			
		DATE 7-30-2015	REVISED		ILLINOIS FEDERAL AID PROJECT							



**PLAN OF DIVISION STREET**  
SCALE: 1" = 20'

- NOTES:
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**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

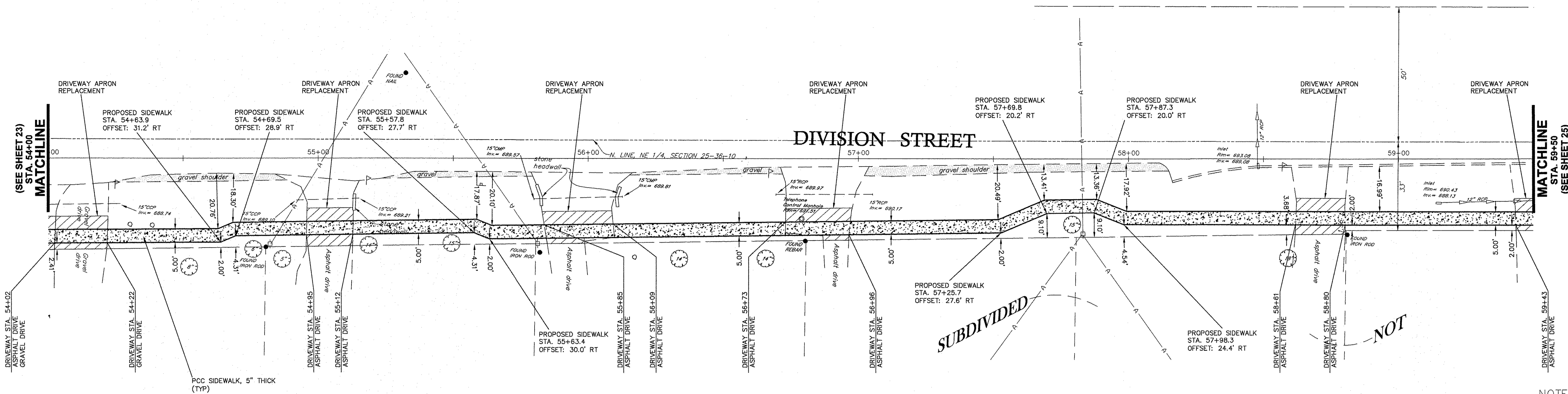


**LEGEND**  
 ○ PROPOSED ELEVATION  
 XXX.X AT BASELINE  
 XXXXX PROPOSED BACK OF PATH ELEVATION  
 ROAD CENTERLINE STATION

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: 1" = 5' V	1" = 20' H	SHEET NO. 7 OF 9 SHEETS	STA. 48+50 TO STA. 54+00	ILLINOIS FEDERAL AID PROJECT			
	PLOT DATE =	CHECKED JPH @ RTA	REVISED									
		DATE 7-30-2015	REVISED									



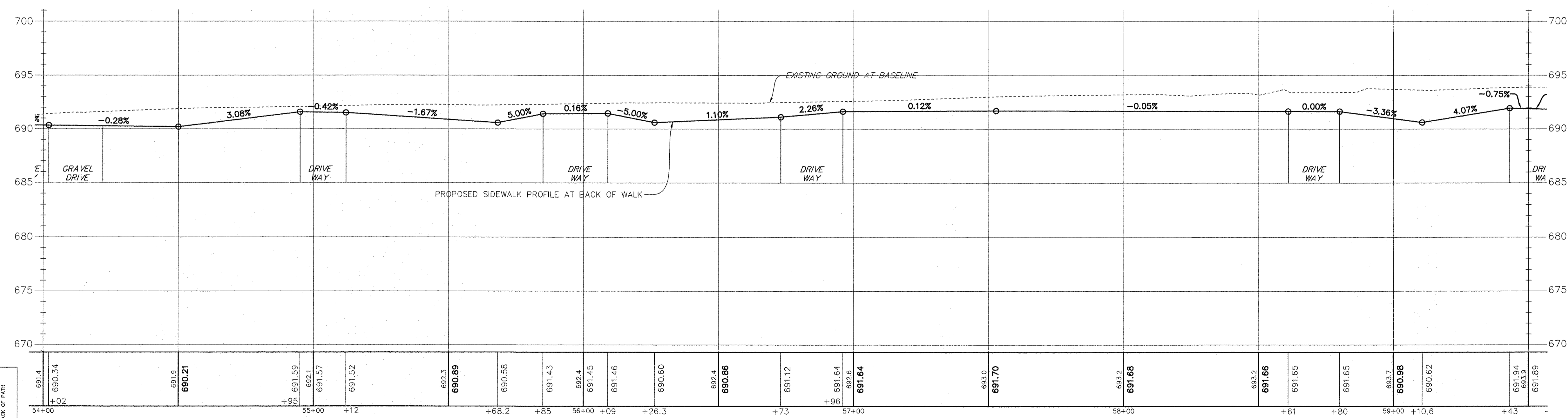


**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

**PROFILE OF DIVISION STREET**

SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

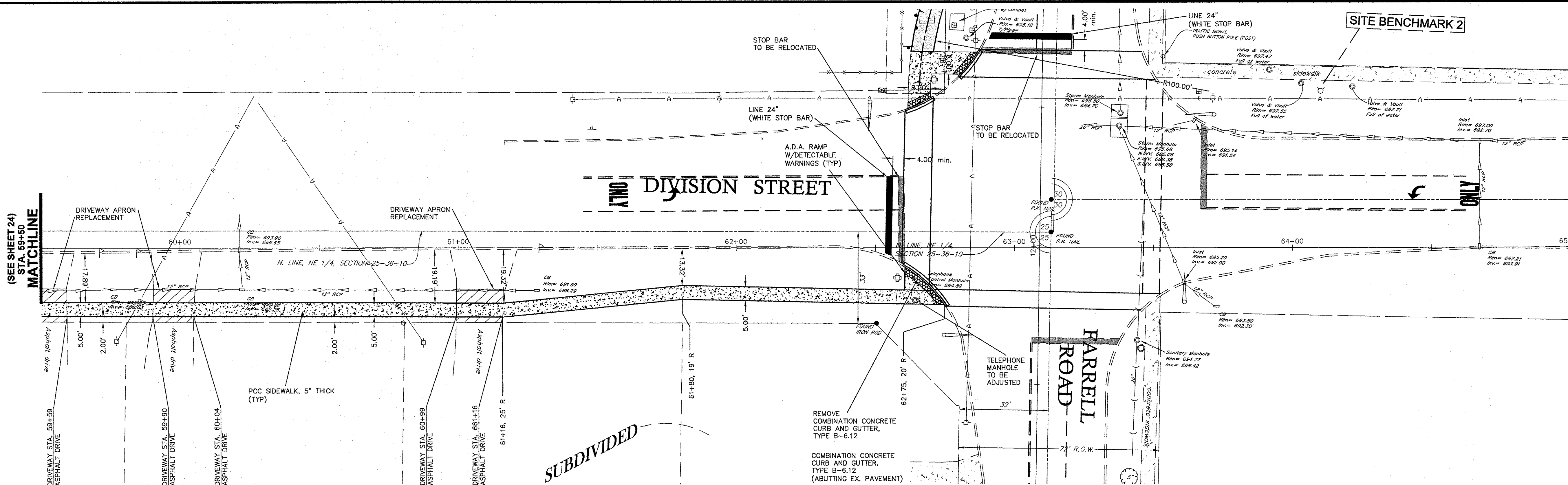


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  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**LEGEND**  
 XXXXX AT BASELINE  
 XXXXX AT BACK OF PAIR  
 XXXXX ELEVATION  
 ROAD CENTERLINE STATION

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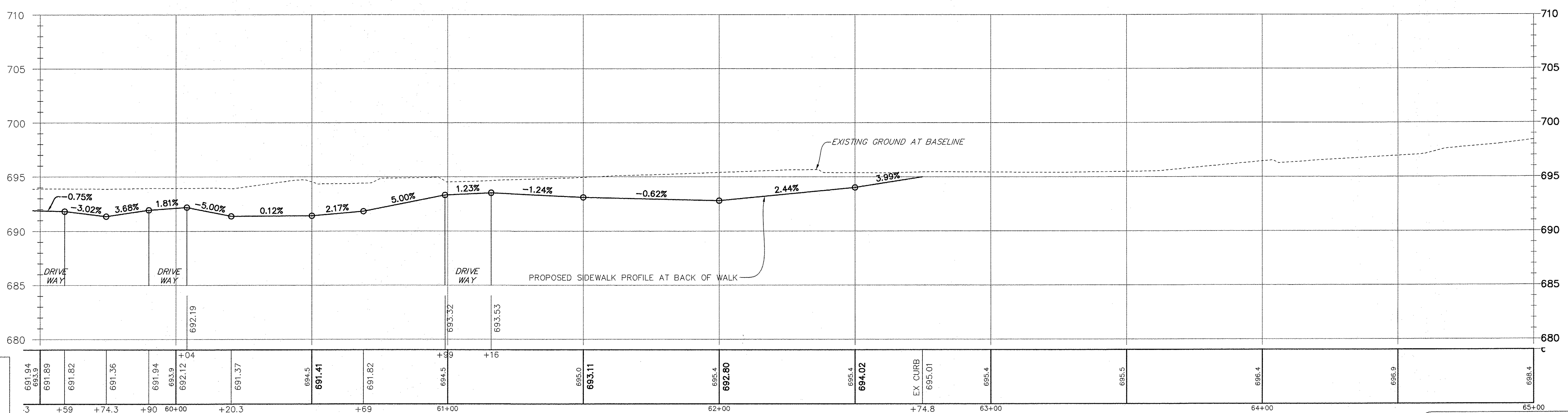
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		<b>BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		363 / 291 / 366	10-00072-00-BT	WILL	93	24
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V		SHEET NO. 8 OF 9 SHEETS		STA. 54+00 TO STA. 59+50		CONTRACT NO. 61D48
		DATE 7-30-2015	REVISED	ILLINOIS FEDERAL AID PROJECT							



**PLAN OF DIVISION STREET**  
SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF DIVISION STREET**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**LEGEND**  
 XXX.X AT BASELINE ELEVATION  
 XXXXX ELEVATION  
 ROAD CENTERLINE STATION

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 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**

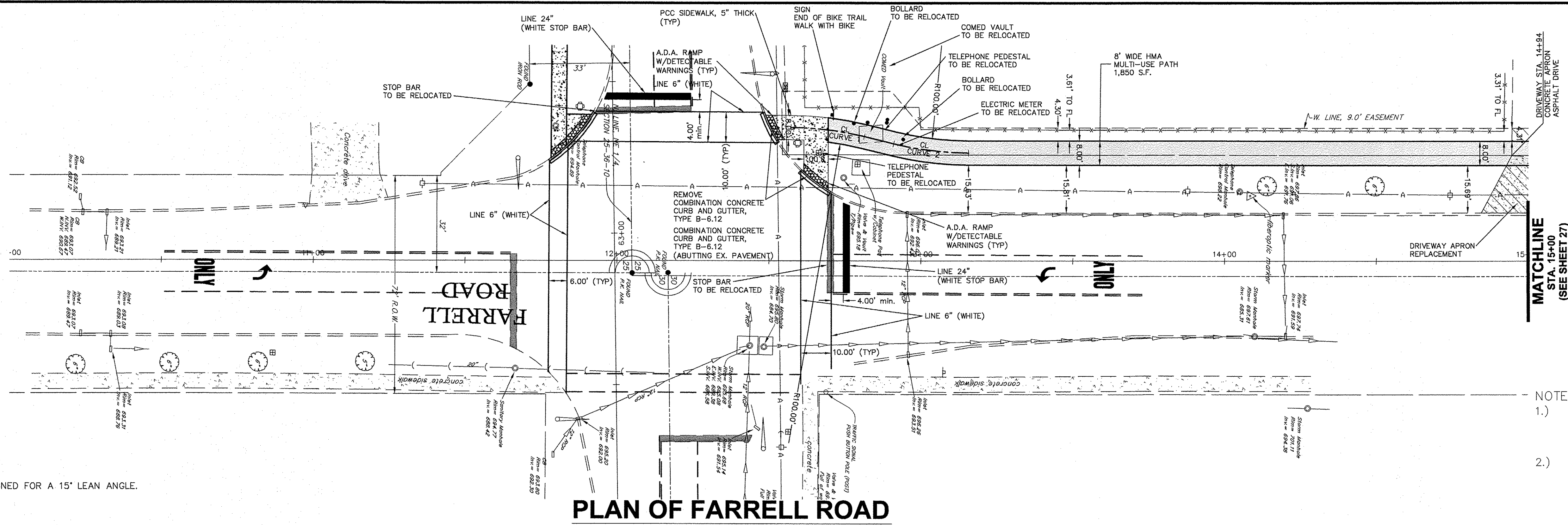
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - PLAN AND PROFILE</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		363 / 291 / 366	10-00072-00-BT	WILL	93	25
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		1" = 20' H		SCALE: 1" = 5' V		CONTRACT NO. 61D48		
		DATE 7-30-2015	REVISED		SHEET NO. 9 OF 9 SHEETS		STA. 59+50 TO STA. 65+00		ILLINOIS FEDERAL AID PROJECT		



CL CURVE 1 DATA  
 $\Delta = 13^{\circ}24'37''$   
 $D = 55^{\circ}05'32''$   
 $R = 104.00'$   
 $T = 12.23'$   
 $L = 24.34'$   
 $E = 0.18'$   
 CHORD LENGTH = 24.29'  
 CHORD BEARING = N 52°1'00" E  
 PC = 12+57.19, 43.99' RT  
 PT = 12+81.30, 41.03' RT

CL CURVE 2 DATA  
 $\Delta = 13^{\circ}42'26''$   
 $D = 55^{\circ}05'32''$   
 $R = 104.00'$   
 $T = 12.50'$   
 $L = 24.88'$   
 $E = 0.75'$   
 CHORD LENGTH = 24.82'  
 CHORD BEARING = N 05°12'06" E  
 PC = 12+90.97, 38.67' LT  
 PT = 13+15.62, 35.70' LT

NOTE:  
 THE MULTI-USE PATH'S CURVES ARE DESIGNED FOR A 15' LEAN ANGLE.



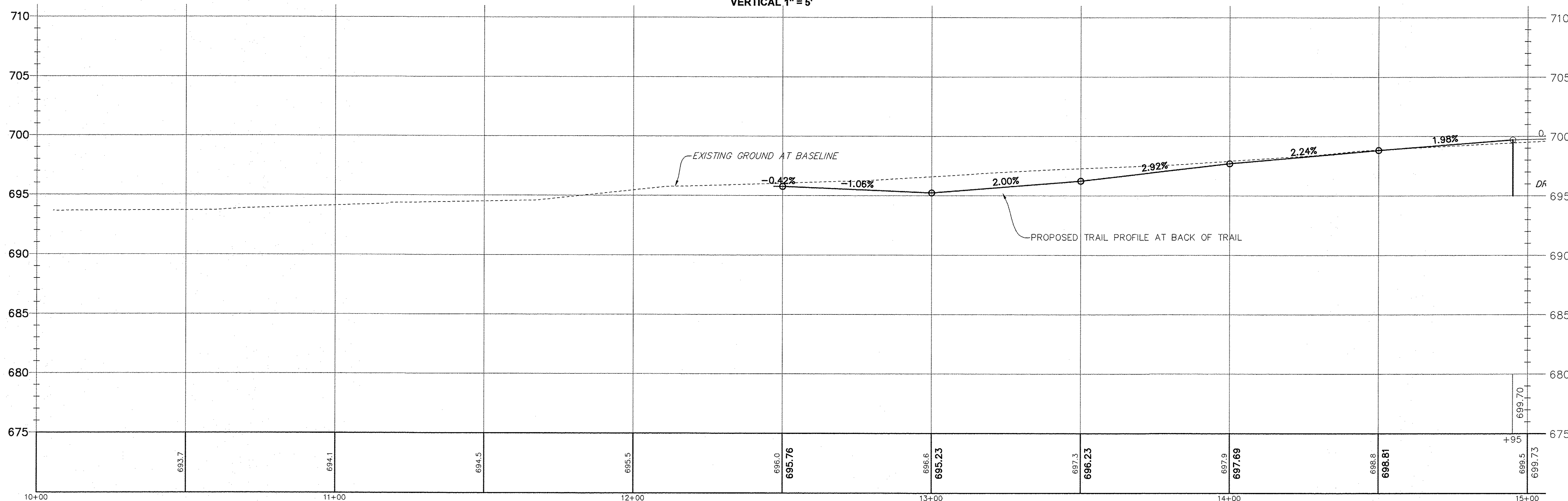
**PLAN OF FARRELL ROAD**

SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF FARRELL ROAD**

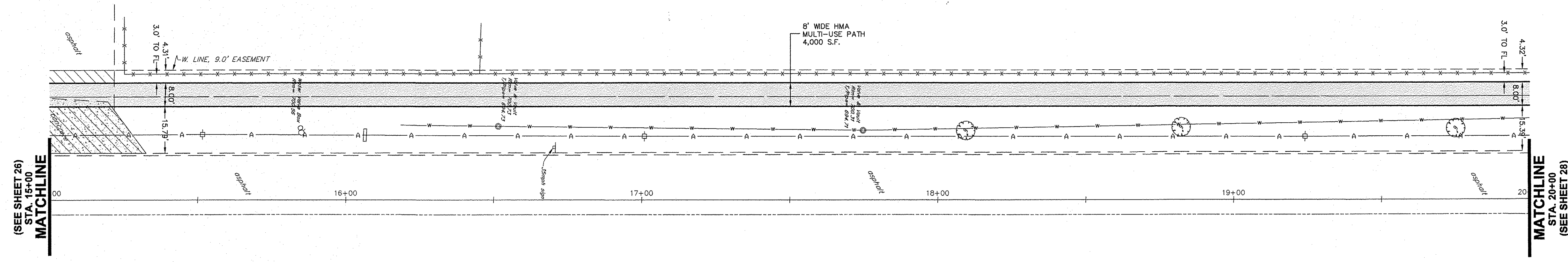
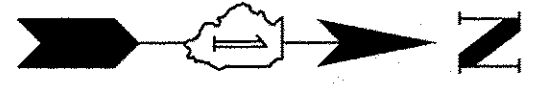
SCALE: HORIZONTAL 1" = 20'  
 VERTICAL 1" = 5'



**LEGEND**  
 XXXXX AT BASELINE  
 XXXXX AT BACK OF PATH  
 XXXXX ELEVATION  
 ROAD CENTERLINE STATION

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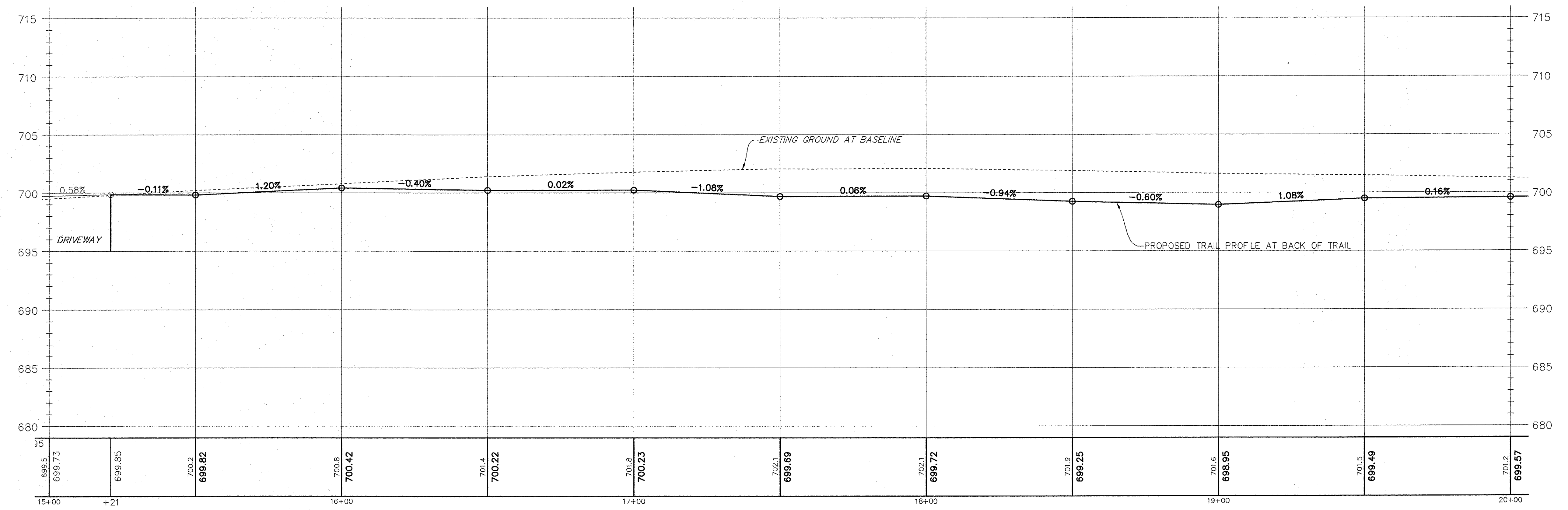
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		363 / 291 / 366	10-0072-00-BT	WILL	93	26
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V SHEET NO. 1 OF 6 SHEETS STA. 10+00 TO STA. 15+00		ILLINOIS FEDERAL AID PROJECT				
		DATE 7-30-2015	REVISED			CONTRACT NO. 61D48					



**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF FARRELL ROAD**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

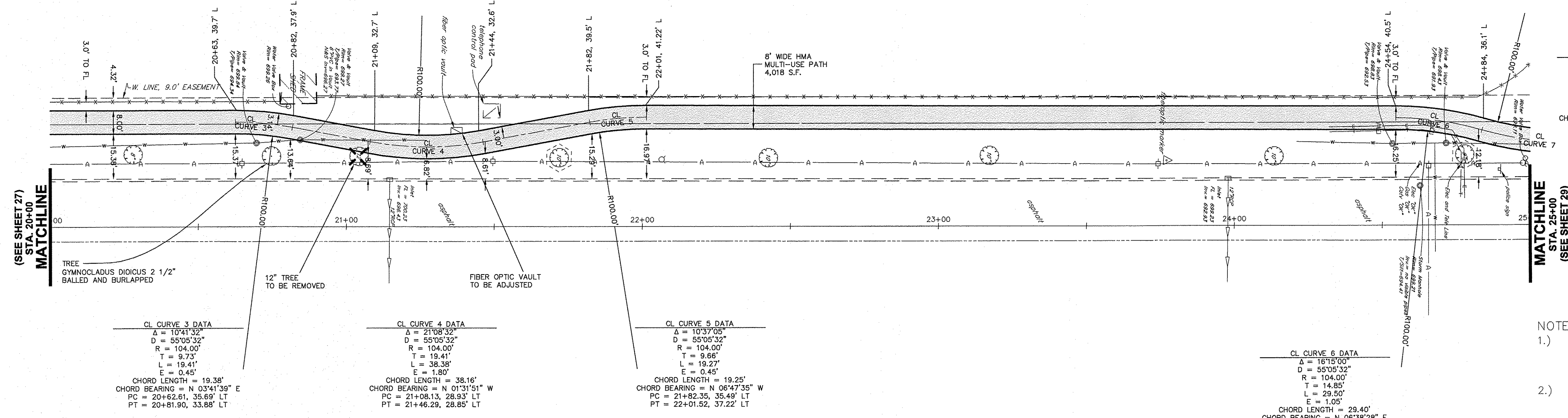
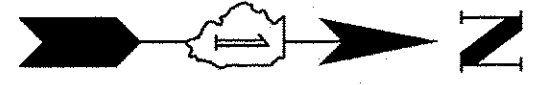


**LEGEND**  
XXX.X AT BASELINE ELEVATION  
XXXXX AT PROPOSED BACK OF PATH ELEVATION  
ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 27
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED						
	PLOT DATE =	DATE 7-30-2015	REVISED						





**CL CURVE 7 DATA**  
 $\Delta = 1625'11"$   
 $D = 55'05'32"$   
 $R = 104.00'$   
 $T = 15.00'$   
 $L = 29.80'$   
 $E = 1.08'$   
 CHORD LENGTH = 29.70'  
 CHORD BEARING = N 06°33'22" E  
 PRC = 24+83.68, 32.23' LT  
 PT = 25+13.08, 27.99' LT

**CL CURVE 3 DATA**  
 $\Delta = 10'41'32"$   
 $D = 55'05'32"$   
 $R = 104.00'$   
 $T = 9.73'$   
 $L = 19.41'$   
 $E = 0.45'$   
 CHORD LENGTH = 19.38'  
 CHORD BEARING = N 03°41'39" E  
 PC = 20+62.61, 35.69' LT  
 PT = 20+81.90, 33.88' LT

**CL CURVE 4 DATA**  
 $\Delta = 21'08'32"$   
 $D = 55'05'32"$   
 $R = 104.00'$   
 $T = 19.41'$   
 $L = 38.38'$   
 $E = 1.80'$   
 CHORD LENGTH = 38.16'  
 CHORD BEARING = N 01°31'51" W  
 PC = 21+08.13, 28.93' LT  
 PT = 21+46.29, 28.85' LT

**CL CURVE 5 DATA**  
 $\Delta = 10'37'05"$   
 $D = 55'05'32"$   
 $R = 104.00'$   
 $T = 9.66'$   
 $L = 19.27'$   
 $E = 0.45'$   
 CHORD LENGTH = 19.25'  
 CHORD BEARING = N 06°47'35" W  
 PC = 21+82.35, 35.49' LT  
 PT = 22+01.52, 37.22' LT

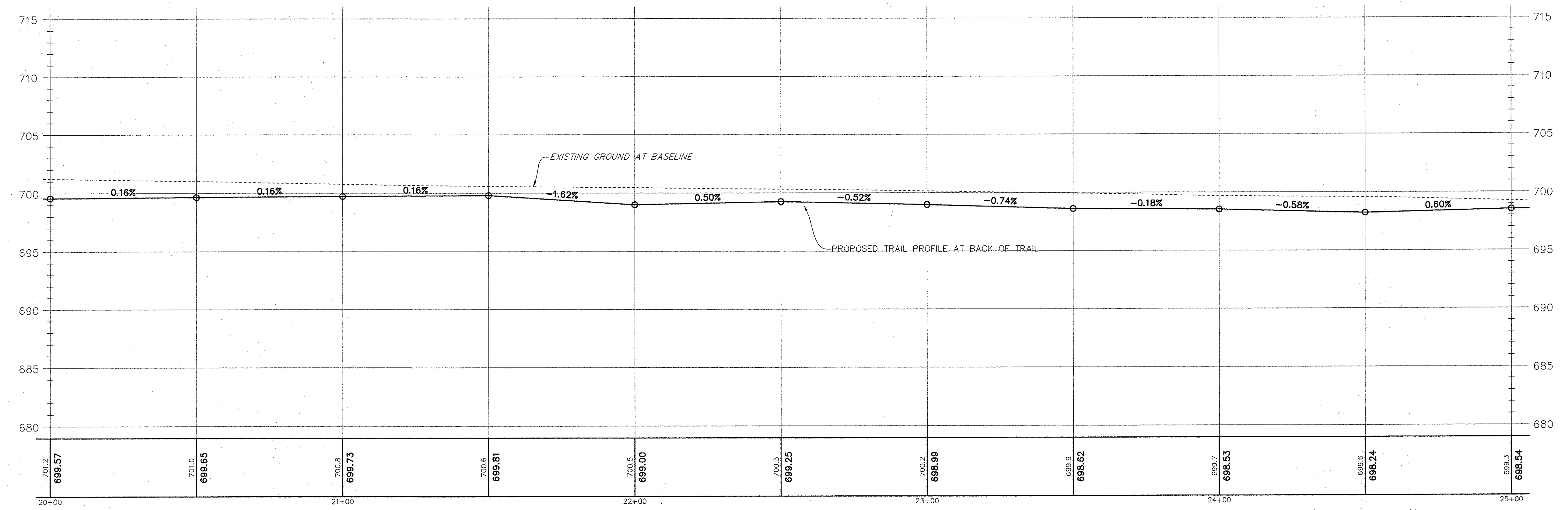
**CL CURVE 6 DATA**  
 $\Delta = 16'15'00"$   
 $D = 55'05'32"$   
 $R = 104.00'$   
 $T = 14.85'$   
 $L = 29.50'$   
 $E = 1.05'$   
 CHORD LENGTH = 29.40'  
 CHORD BEARING = N 06°38'28" E  
 PC = 24+54.60, 36.47' LT  
 PRC = 24+83.68, 32.23' LT

- NOTES:**
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**NOTE:**  
 THE MULTI-USE PATH'S CURVES ARE DESIGNED FOR A 15° LEAN ANGLE.

**PLAN OF FARRELL ROAD**  
 SCALE: 1" = 20'

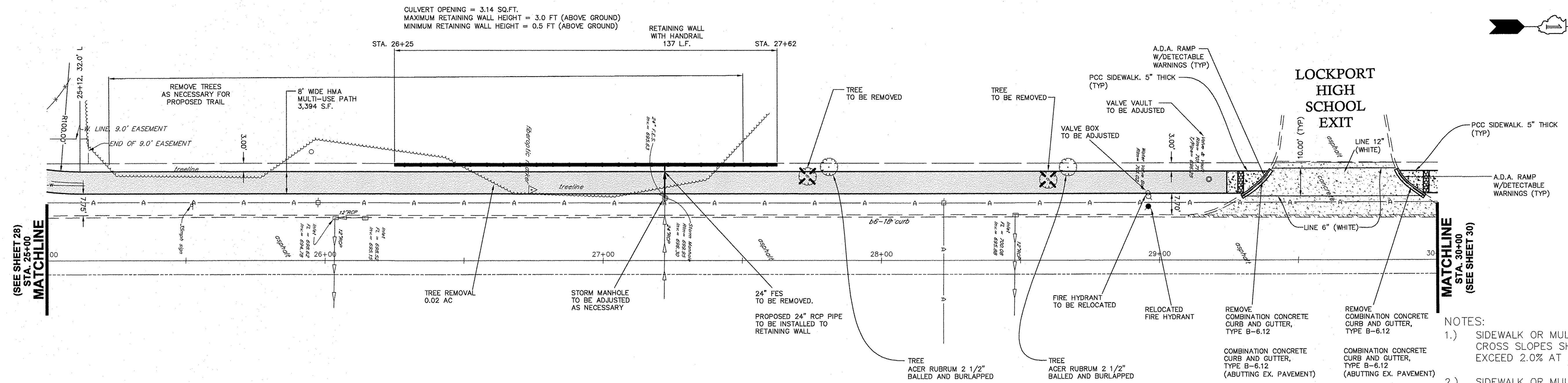
**PROFILE OF FARRELL ROAD**  
 SCALE: HORIZONTAL 1" = 20'  
 VERTICAL 1" = 5'



**LEGEND**  
 XXX.X' BOUND ELEVATION  
 XXX.X' AT BASELINE  
 XXX.X' PROPOSED BACK OF PATH  
 XXX.X' ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FARRELL ROAD - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: 1" = 20' H	363 / 291 / 366	10-00072-00-BT	WILL	93	28	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V	SHEET NO. 3 OF 6 SHEETS		CONTRACT NO. 61D48		ILLINOIS FEDERAL AID PROJECT	
		DATE 7-30-2015	REVISED		STA. 20+00 TO STA. 25+00						

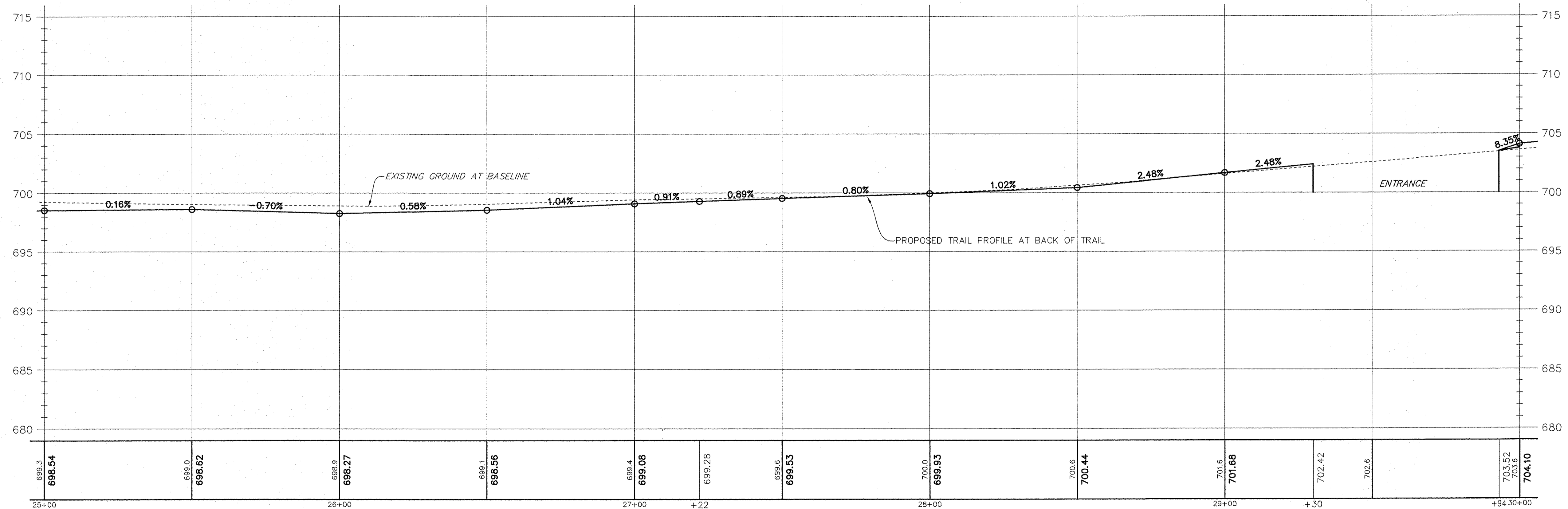


### PLAN OF FARRELL ROAD

SCALE: 1" = 20'

### PROFILE OF FARRELL ROAD

SCALE: HORIZONTAL 1" = 20'  
 VERTICAL 1" = 5'

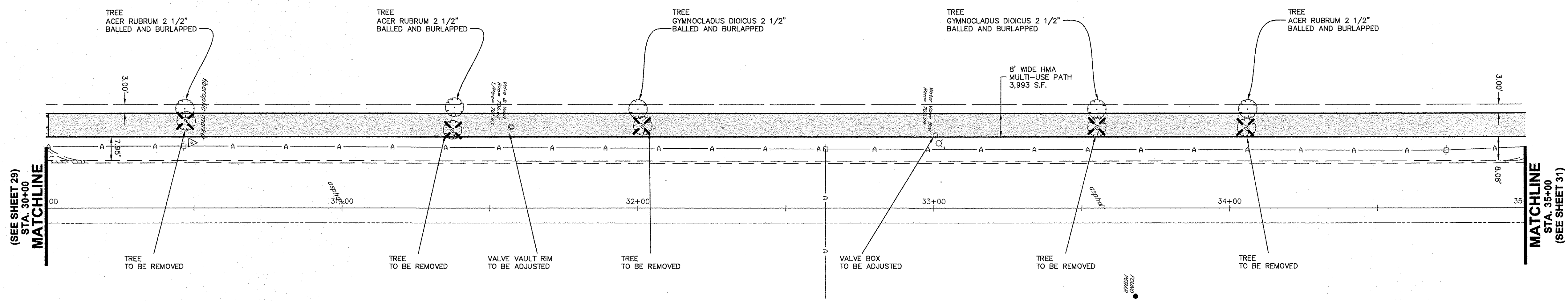


**LEGEND**  
 XXXX AT BASELINE ELEVATION  
 XXXXX AT PROPOSED BACK OF PATH ELEVATION  
 ROAD CENTERLINE STATION

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FARRELL ROAD - PLAN AND PROFILE BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		1" = 20' H	363 / 291 / 366	10-00072-00-BT	WILL	93	29	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V	SHEET NO. 4 OF 6 SHEETS	STA. 25+00 TO STA. 30+00	CONTRACT NO. 61D48			
		DATE 7-30-2015	REVISED		ILLINOIS FEDERAL AID PROJECT						





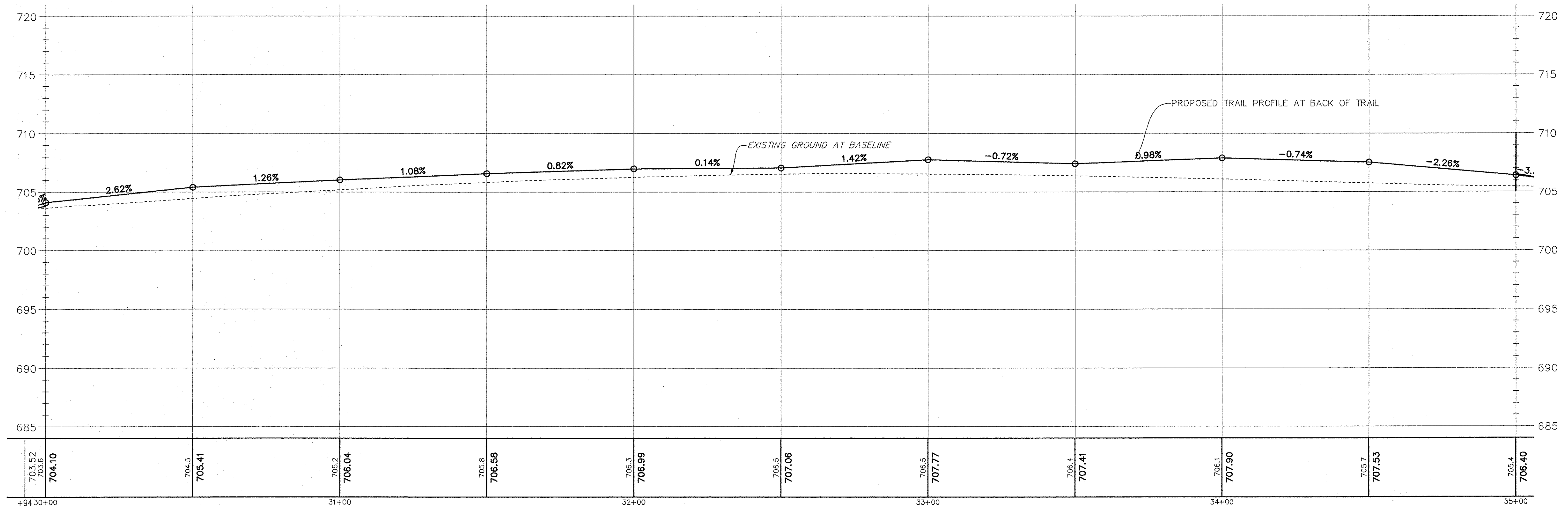
### PLAN OF FARRELL ROAD

SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

### PROFILE OF FARRELL ROAD

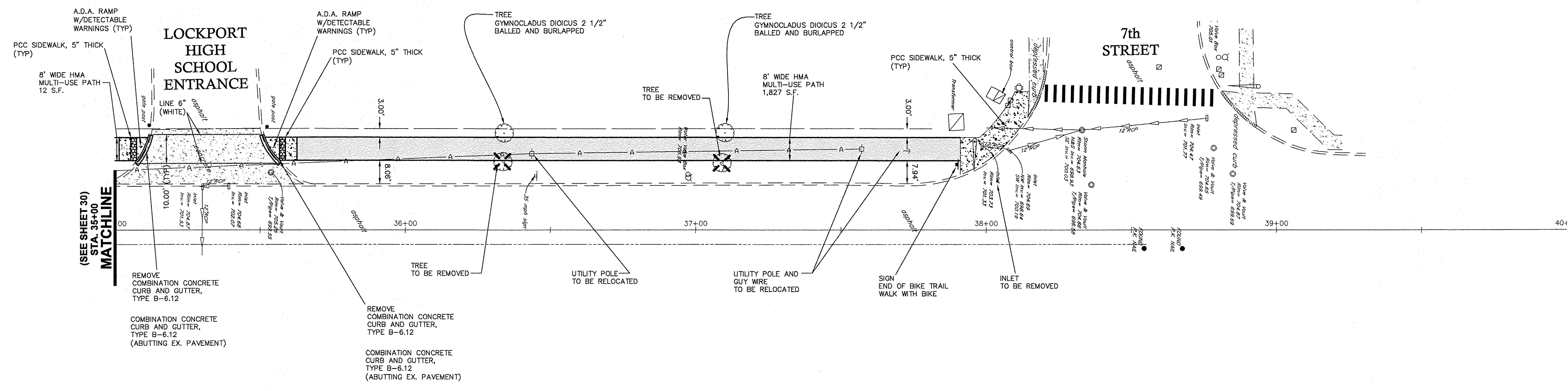
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**LEGEND**  
 XXXX EXISTING GROUND ELEVATION  
 XXXX PROPOSED BACK OF PATH ELEVATION  
 --- ROAD CENTERLINE STATION

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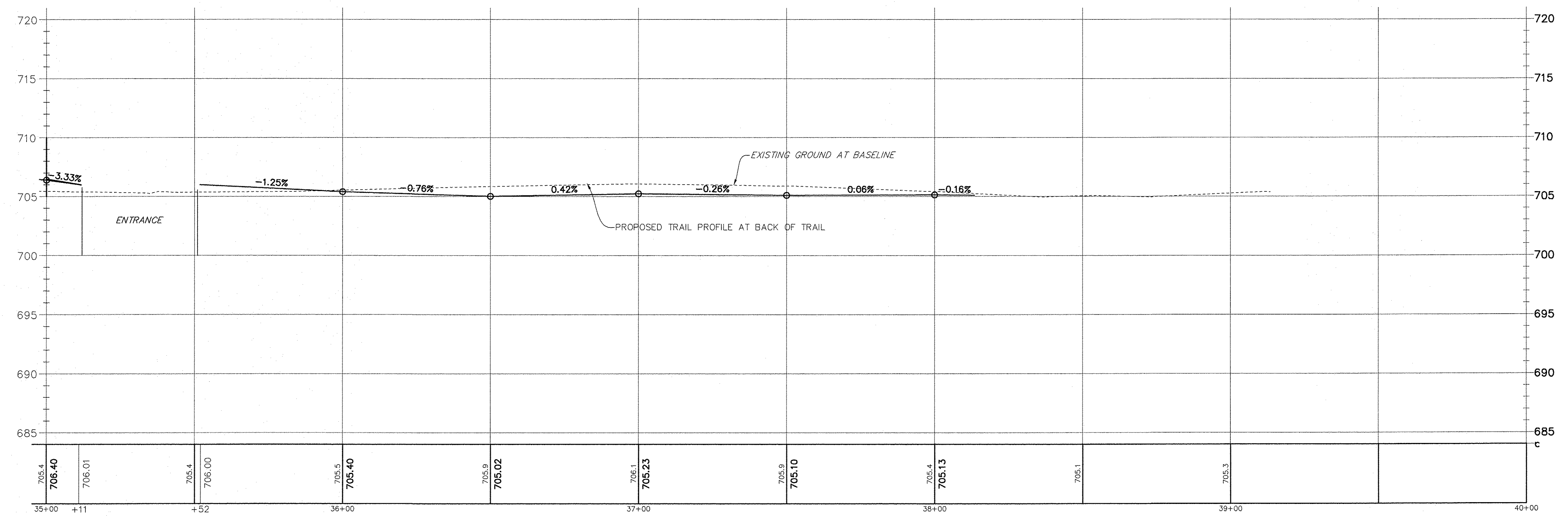
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED						
	PLOT DATE =	DATE 7-30-2015	REVISED						



**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

- NOTES:
- 1.) SIDEWALK OR MULTI-USE PATH CROSS SLOPES SHALL NOT EXCEED 2.0% AT ANY LOCATION.
  - 2.) SIDEWALK OR MULTI-USE PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0% AND 5.0% SLOPE MAY NOT BE CARRIED FOR MORE THAN 30 FEET.

**PROFILE OF FARRELL ROAD**  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

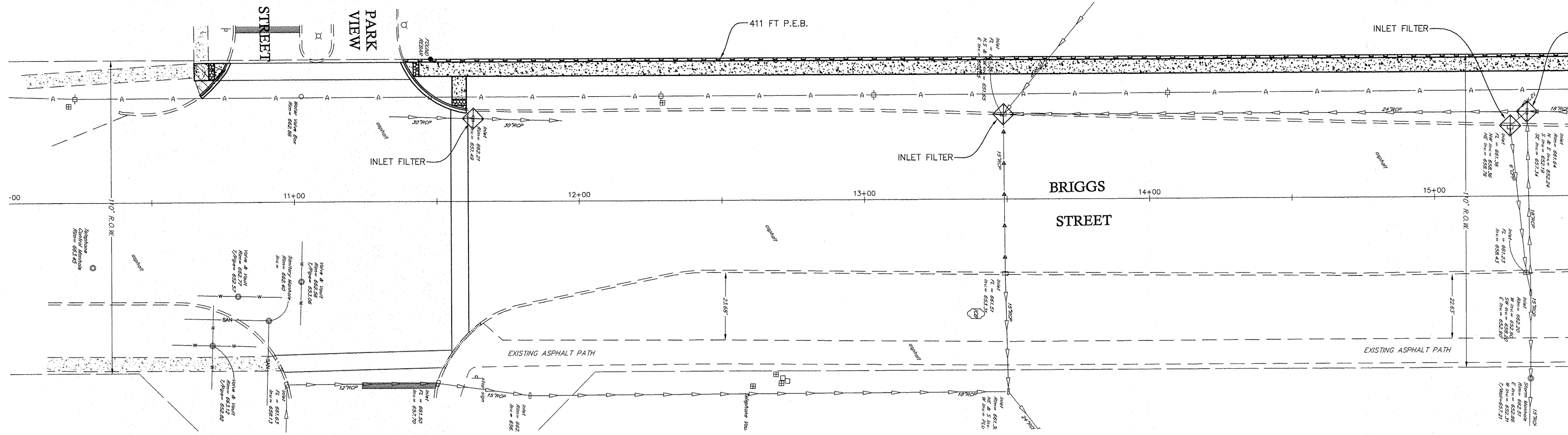


**LEGEND**  
 --- EXISTING GROUND ELEVATION  
 --- PROPOSED TRAIL PROFILE AT BACK OF TRAIL  
 --- ROAD CENTERLINE STATION

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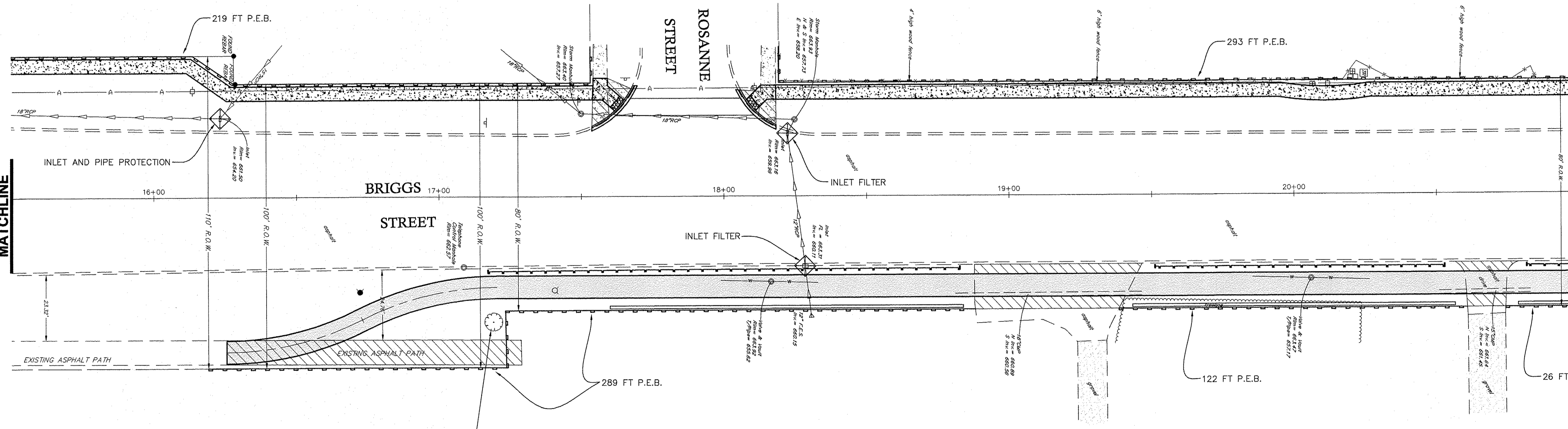
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		1" = 20' H	363 / 291 / 366	10-00072-00-BT	WILL	93	31	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: 1" = 5' V	SHEET NO. 6 OF 6 SHEETS		CONTRACT NO. 61D48		ILLINOIS FEDERAL AID PROJECT	
		DATE 7-30-2015	REVISED		STA. 35+00 TO STA. 40+00						





**PLAN OF BRIGGS STREET**  
SCALE: 1" = 20'

**MATCHLINE**  
STA. 15+50  
(SEE THIS SHEET)



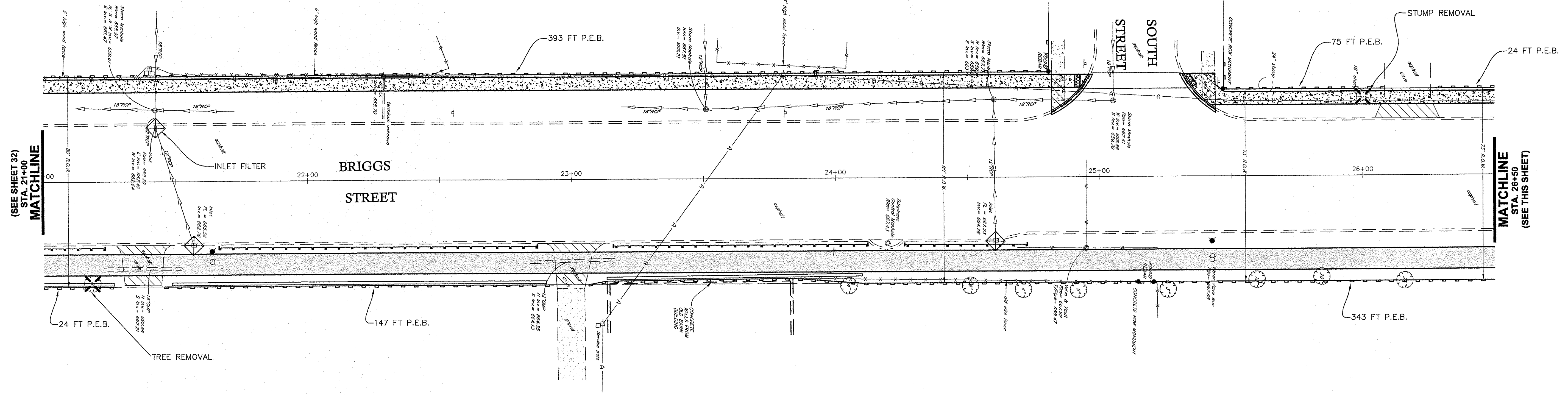
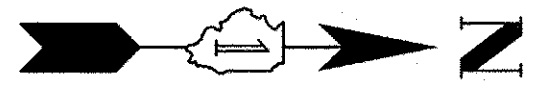
**PLAN OF BRIGGS STREET**  
SCALE: 1" = 20'

**MATCHLINE**  
STA. 21+00  
(SEE SHEET 33)

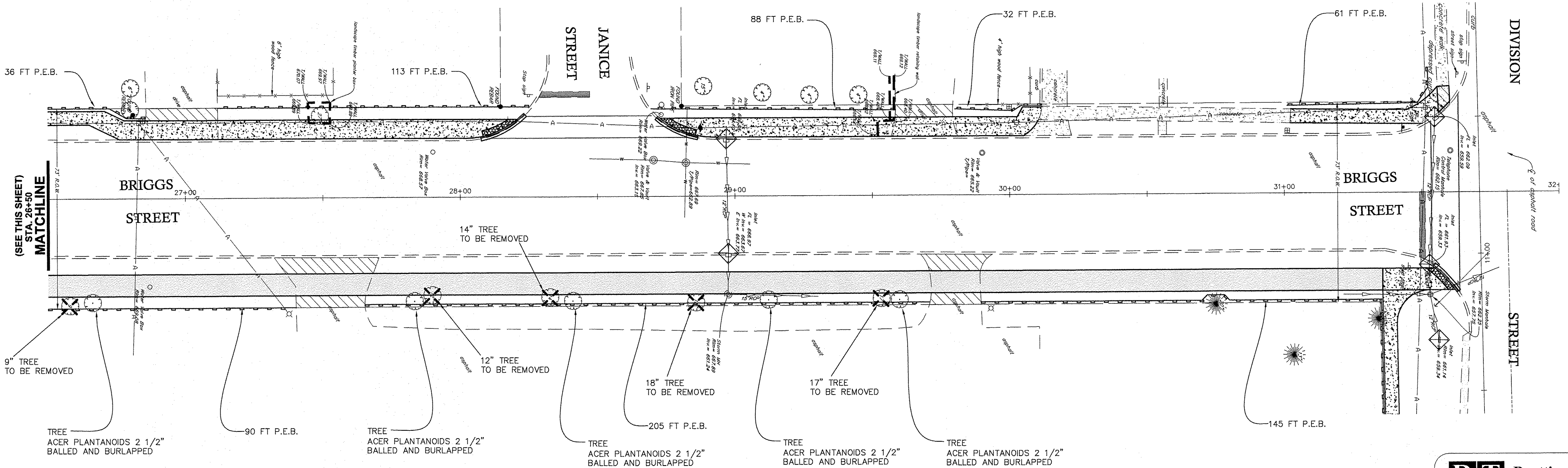
TREE  
GYMNOCLADUS DIOICUS 2 1/2"  
BALLED AND BURLAPPED

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIGGS STREET - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	32	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 20' H	SHEET NO. 1 OF 2 SHEETS	STA. 10+00 TO STA. 21+00	CONTRACT NO. 61D48		
		DATE 7-30-2015	REVISED			ILLINOIS FEDERAL AID PROJECT					



**PLAN OF BRIGGS STREET**  
SCALE: 1" = 20'

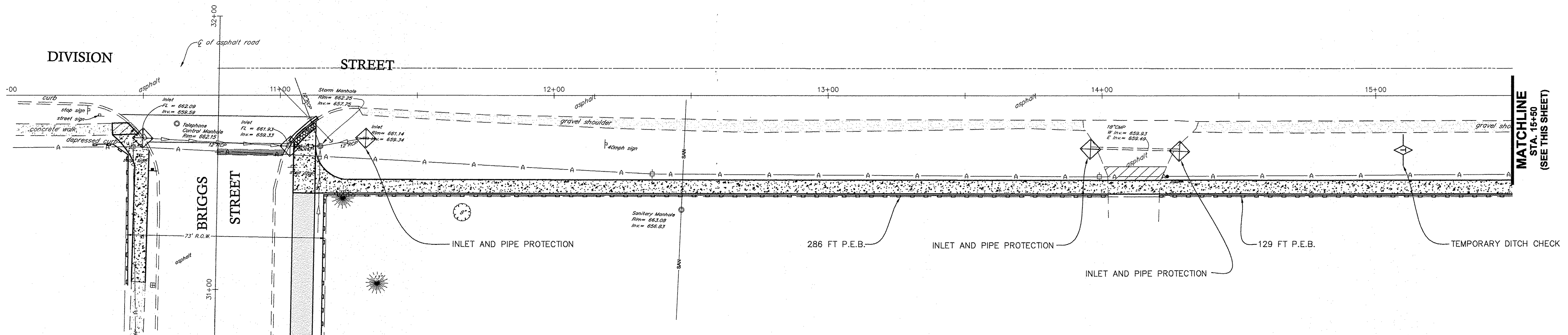


**PLAN OF BRIGGS STREET**  
SCALE: 1" = 20'

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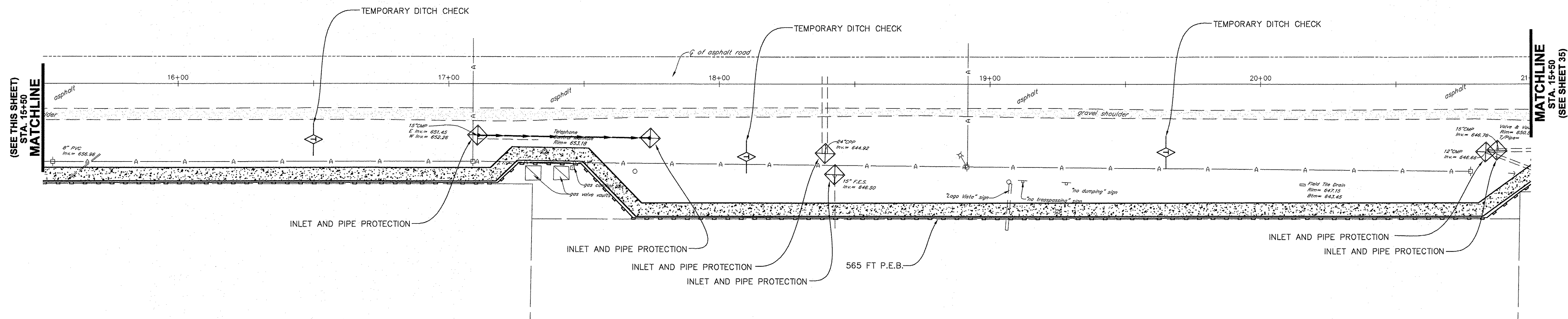
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIGGS STREET - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	33
PLOT DATE =	CHECKED JPH @ RTA	REVISED	REVISED	SCALE: 1" = 20' H	SHEET NO. 2 OF 2 SHEETS	STA. 21+00 TO STA. 32+00	ILLINOIS FEDERAL AID PROJECT			
	DATE 7-30-2015	REVISED	REVISED				CONTRACT NO. 61D48			





**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

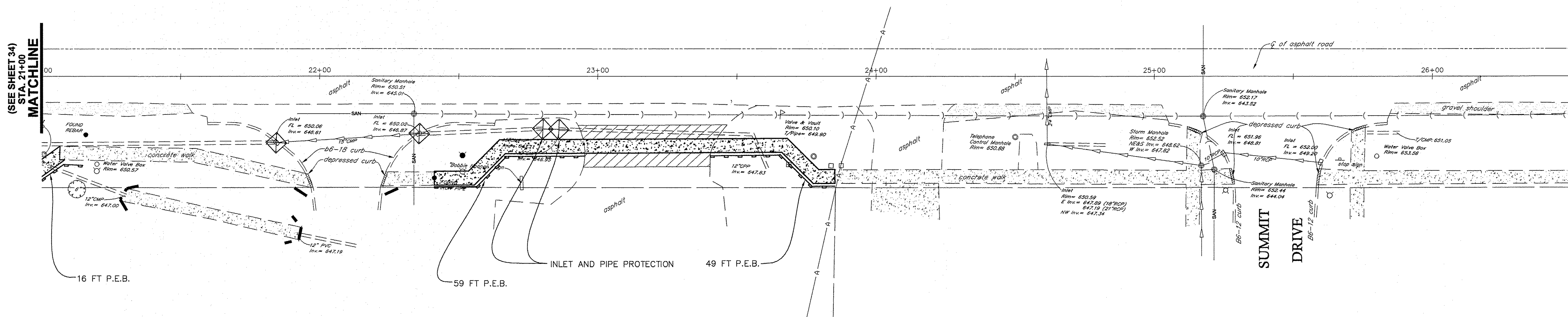


**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	34
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 20' H	SHEET NO. 1 OF 5 SHEETS	STA. 10+00 TO STA. 21+00	ILLINOIS FEDERAL AID PROJECT	
	DATE 7-30-2015	DATE	REVISED						CONTRACT NO. 61D48	



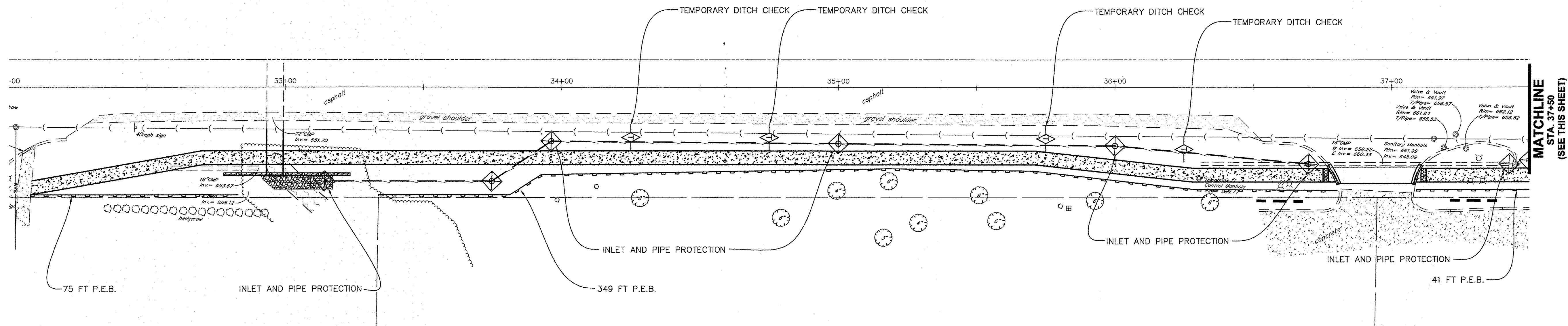
**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**

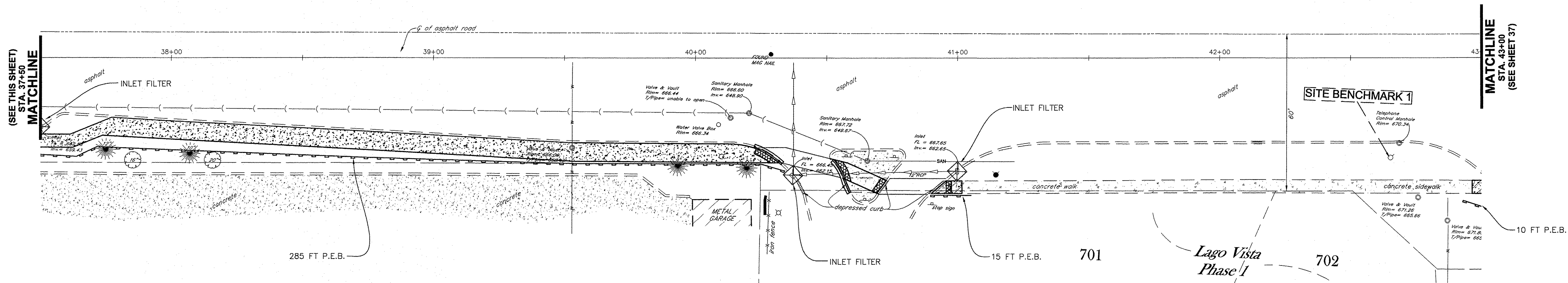
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	35
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 20' H SHEET NO. 2 OF 5 SHEETS STA. 21+00 TO STA. 26+50		CONTRACT NO. 61D48 ILLINOIS FEDERAL AID PROJECT		
		DATE 7-30-2015	REVISED							





**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

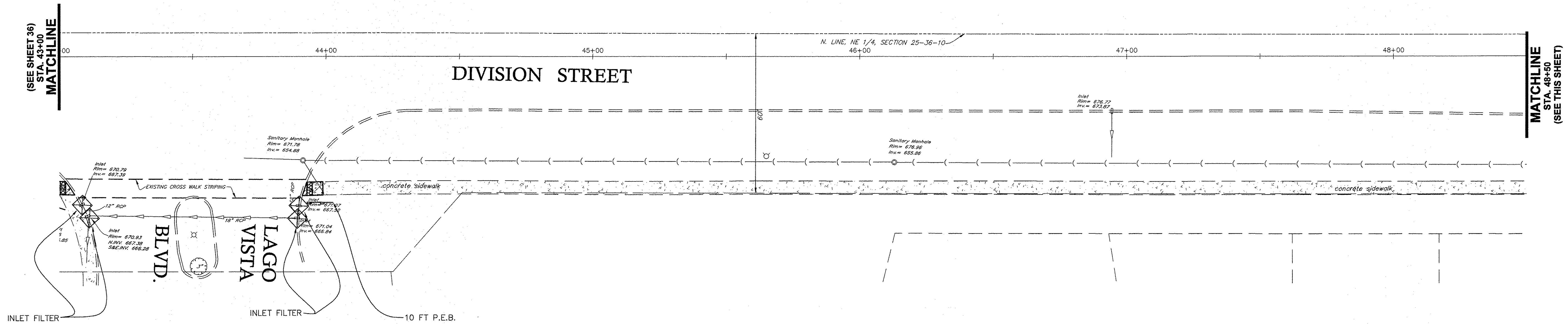


**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

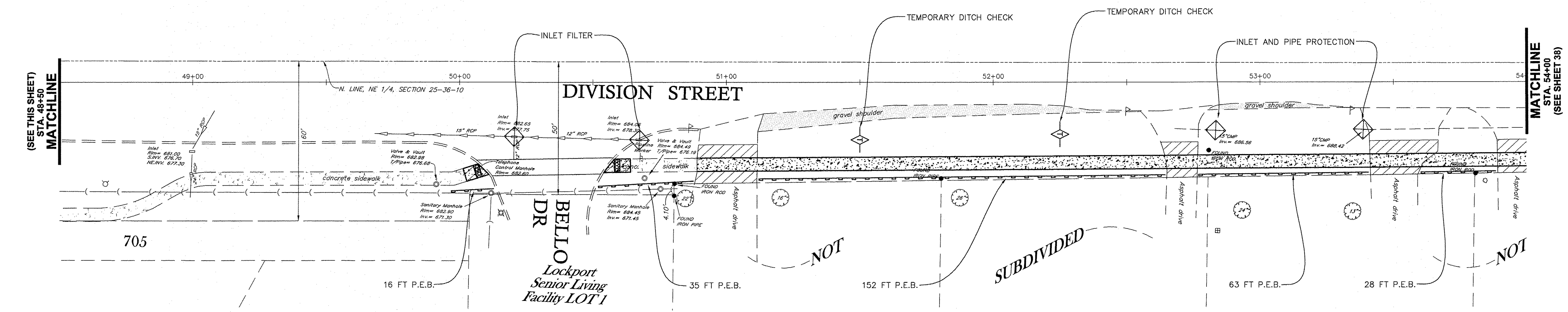
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 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
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 website: www.ruettigertonnelli.com  
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	36	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 20' H SHEET NO. 3 OF 5 SHEETS STA. 32+00 TO STA. 43+00		CONTRACT NO. 61D48			
		DATE 7-30-2015	REVISED			ILLINOIS FEDERAL AID PROJECT					



**PLAN OF DIVISION STREET**

SCALE: 1" = 20'



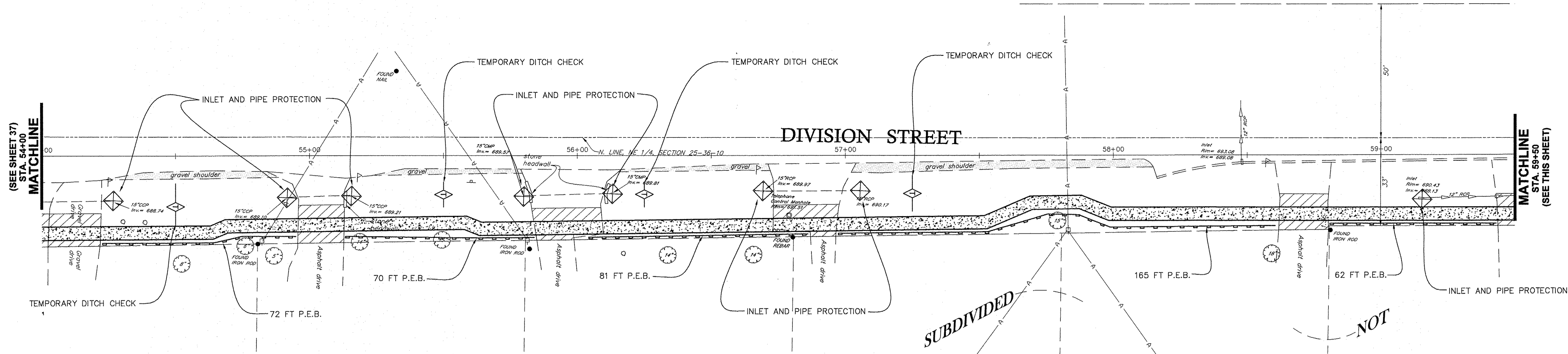
**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

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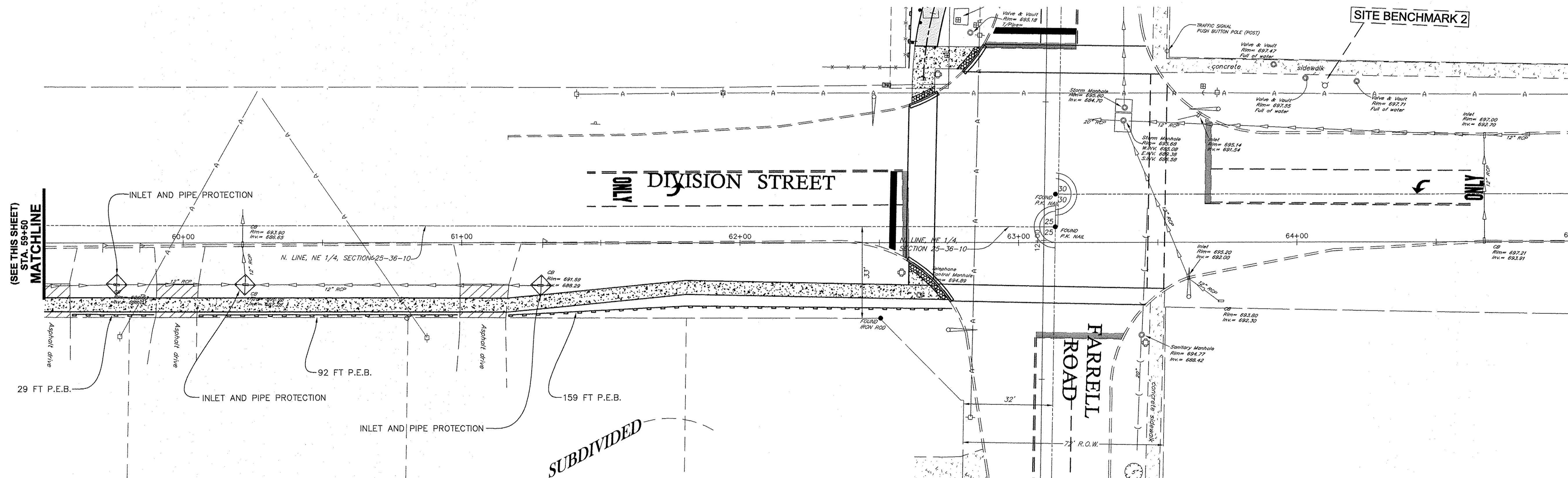
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIVISION STREET - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	37	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			CONTRACT NO. 61D48					
		DATE 7-30-2015	REVISED			ILLINOIS FEDERAL AID PROJECT					
				SCALE: 1" = 20' H		SHEET NO. 4 OF 5 SHEETS		STA. 43+00 TO STA. 54+00			





**PLAN OF DIVISION STREET**

SCALE: 1" = 20'

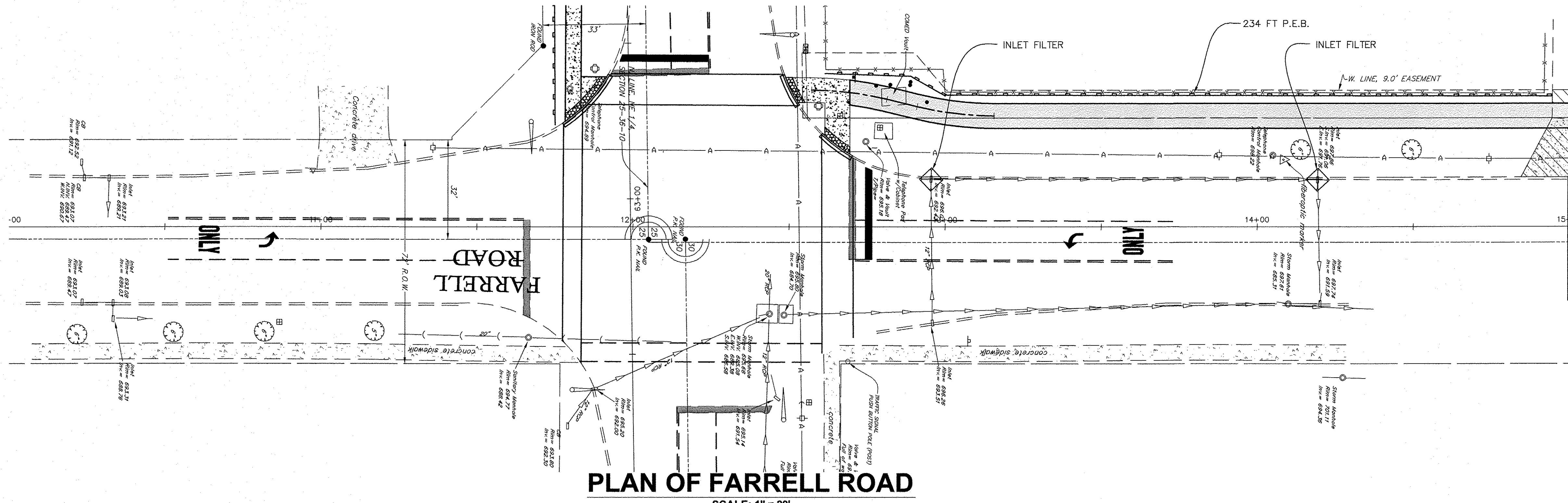
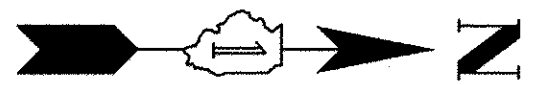


**PLAN OF DIVISION STREET**

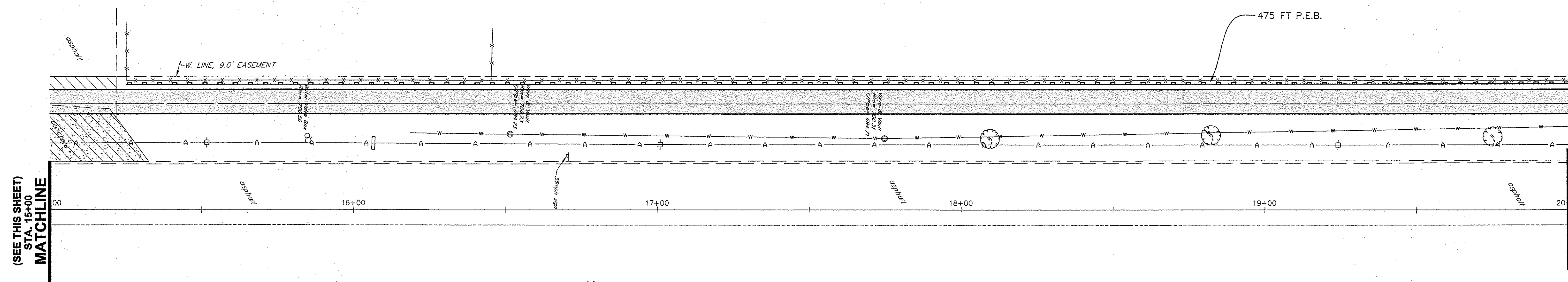
SCALE: 1" = 20'

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISIONS			363 / 291 / 366	10-00072-00-BT	WILL	93	38
PLOT DATE =	CHECKED JPH @ RTA	DATE 7-30-2015	REVISIONS	SCALE: 1" = 20' H	SHEET NO. 5 OF 5 SHEETS	STA. 54+00 TO STA. 65+00	CONTRACT NO. 61D48		ILLINOIS FEDERAL AID PROJECT	



**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

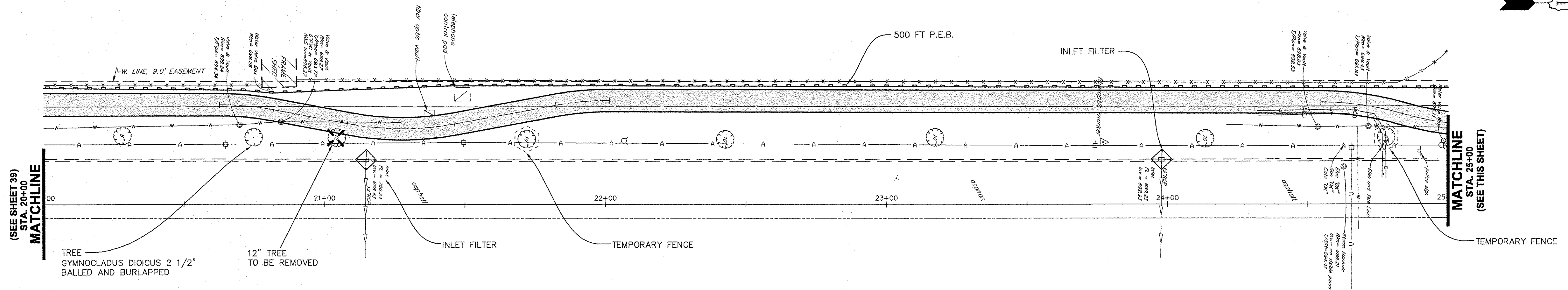


**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

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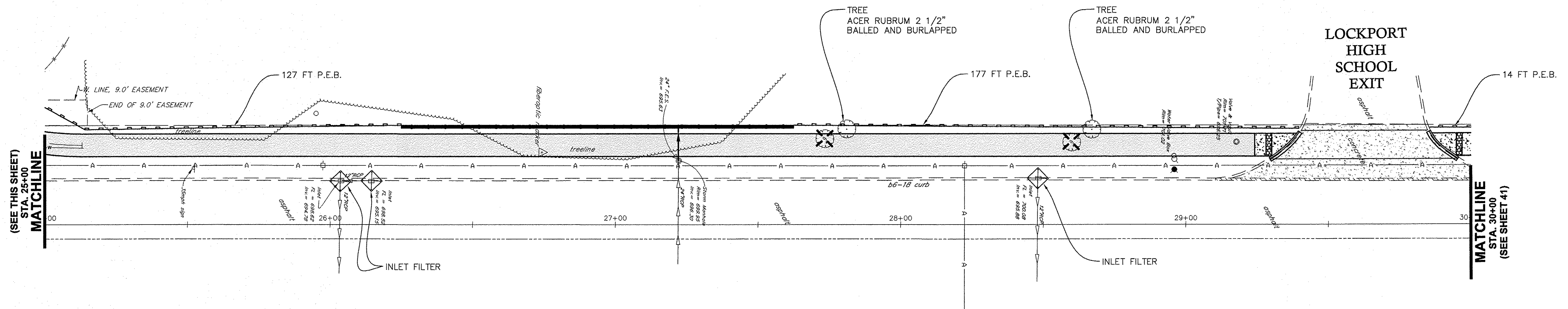
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FARRELL ROAD - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	39	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			SCALE: 1" = 20' H SHEET NO. 1 OF 3 SHEETS STA. 10+00 TO STA. 20+00		CONTRACT NO. 61D48			
		DATE 7-30-2015	REVISED			ILLINOIS FEDERAL AID PROJECT					





**PLAN OF FARRELL ROAD**

SCALE: 1" = 20'

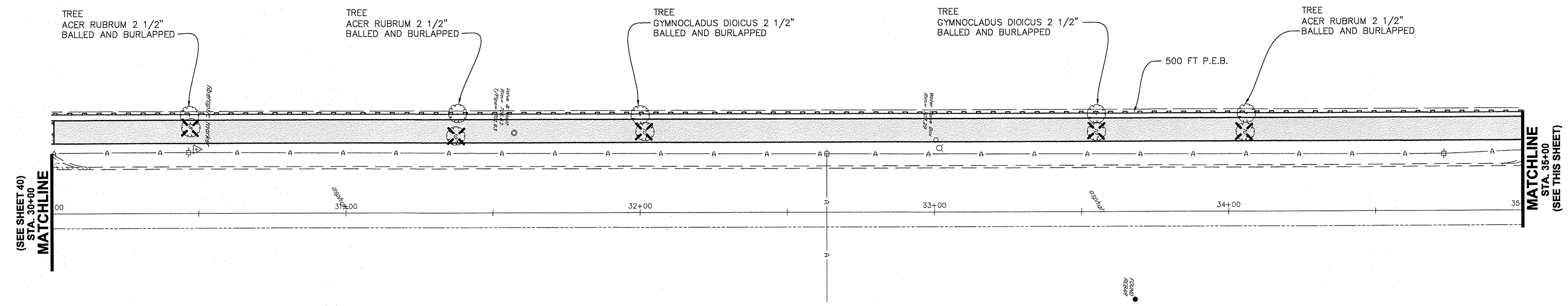
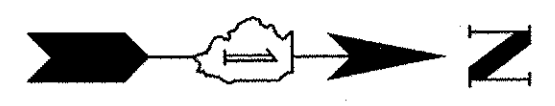


**PLAN OF FARRELL ROAD**

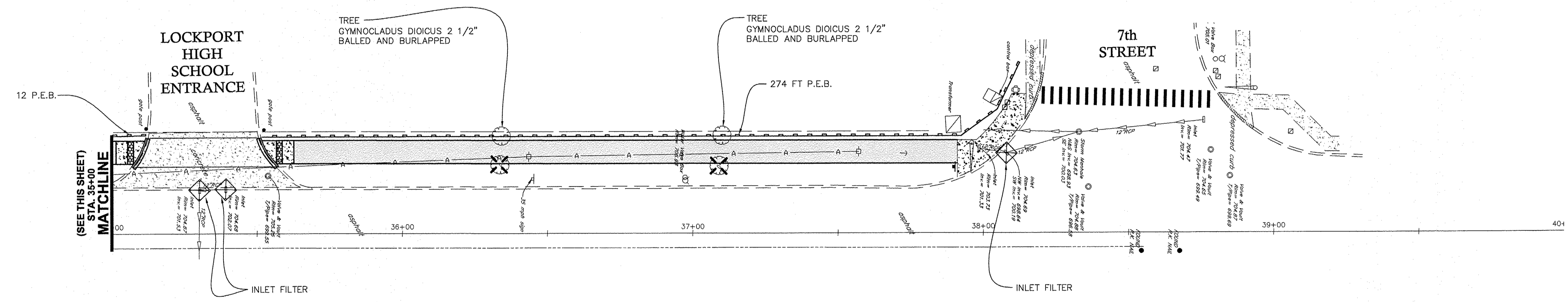
SCALE: 1" = 20'

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FARRELL ROAD - EROSION CONTROL AND LANDSCAPE PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	40	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED							CONTRACT NO. 61D48	
		DATE 7-30-2016	REVISED			SCALE: 1" = 20' H	SHEET NO. 2 OF 3 SHEETS	STA. 20+00 TO STA. 30+00	ILLINOIS FEDERAL AID PROJECT		



**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

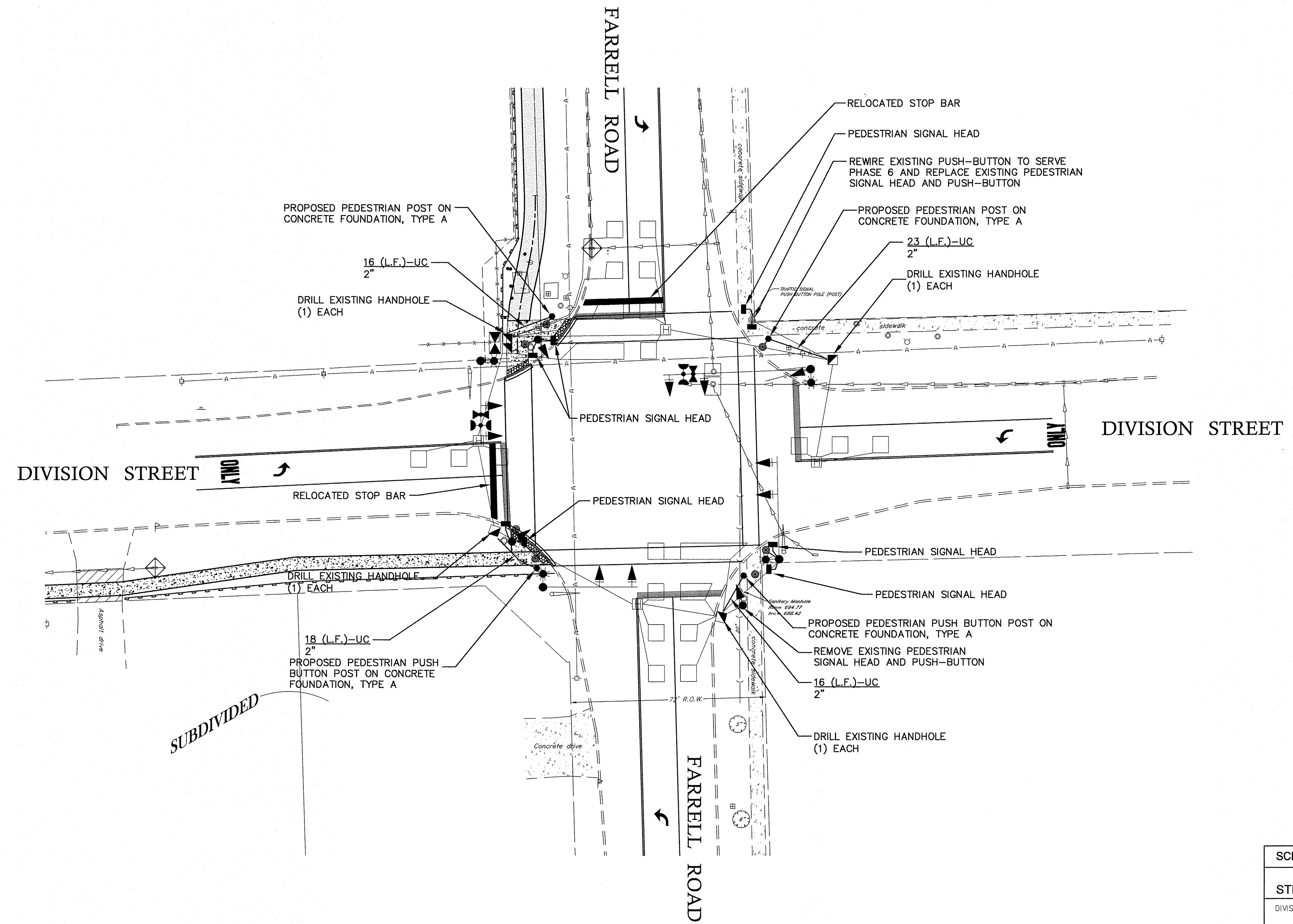
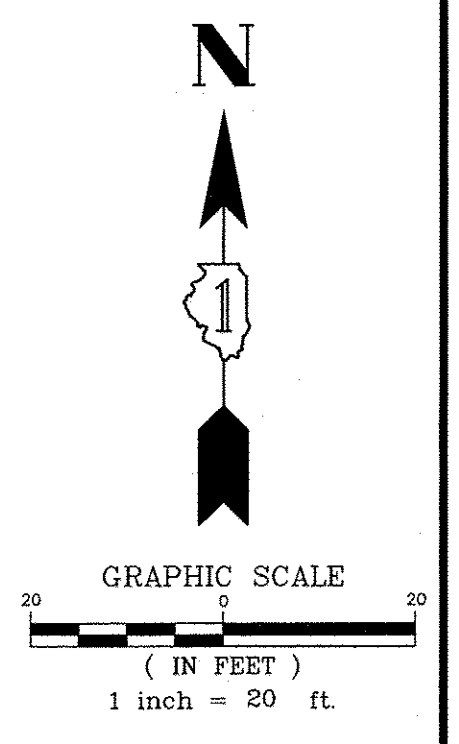


**PLAN OF FARRELL ROAD**  
SCALE: 1" = 20'

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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	41	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED					CONTRACT NO. 61D48			
		DATE 7-30-2015	REVISED			SCALE: 1" = 20' H SHEET NO. 3 OF 3 SHEETS STA. 30+00 TO STA. 40+00		ILLINOIS FEDERAL AID PROJECT			





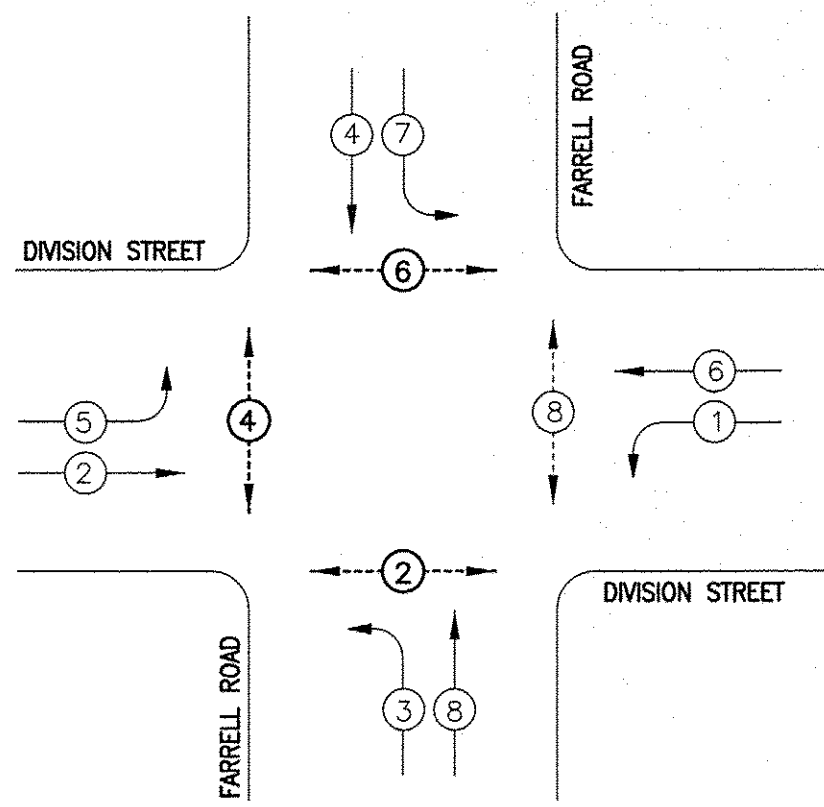
SCHEDULE OF PEDESTRIAN EQUIPMENT TO BE REMOVED			
STREET	STATION	OFFSET	QUANTITY (EACH)
DIVISION STREET	63+45	38.7' RT	1 - PUSH BUTTON 1 - PEDESTRIAN HEAD
DIVISION STREET	63+53	67.0' LT	1 - PUSH BUTTON 1 - PEDESTRIAN HEAD

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET AND FARRELL ROAD TRAFFIC SIGNAL PLAN BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED			363 / 291 / 366	10-00072-00-BT	WILL	93	42	
	PLOT DATE =	CHECKED JPH @ RTA	REVISED			CONTRACT NO. 61D48					
		DATE 7-30-2015	REVISED			ILLINOIS FEDERAL AID PROJECT					

**PHASE DESIGNATION DIAGRAM**

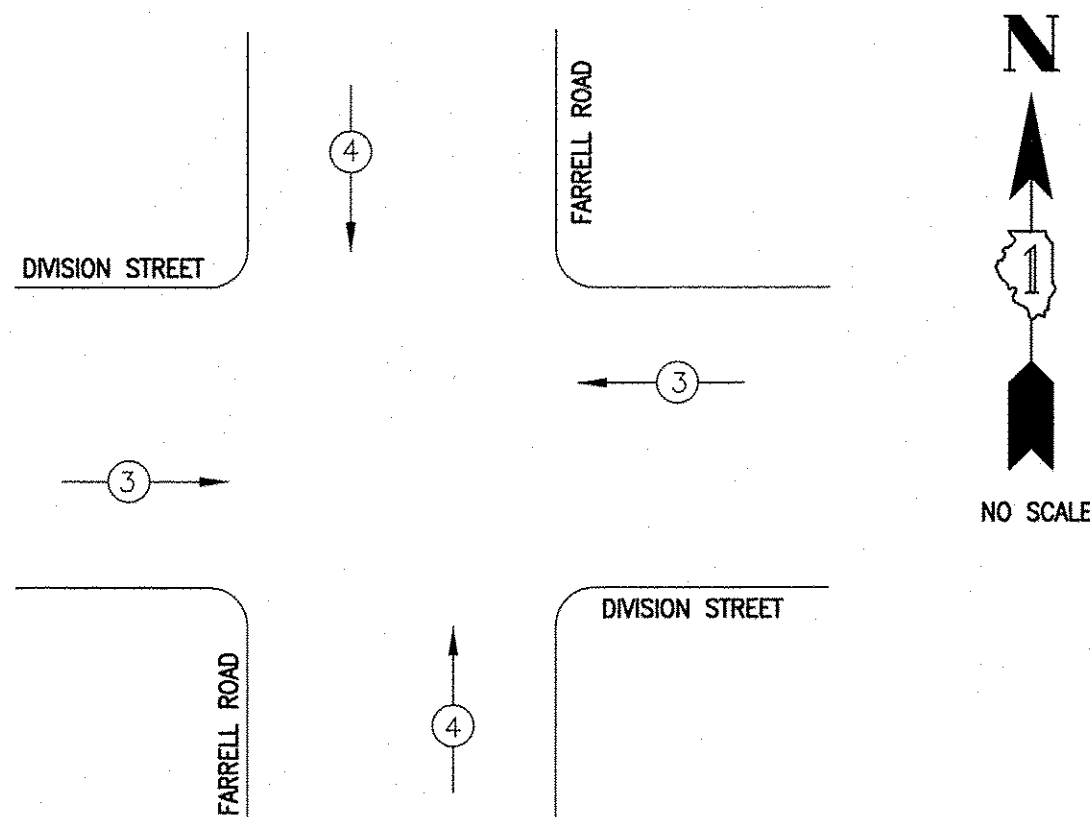
THE VEHICULAR AND PEDESTRIAN PHASES TO BE USED ARE DESIGNATED BELOW:



NO SCALE  
**LEGEND**

- ⊕ DUAL ENTRY PHASE
- ⊖ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE
- ⊕ PROPOSED PEDESTRIAN PHASE

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



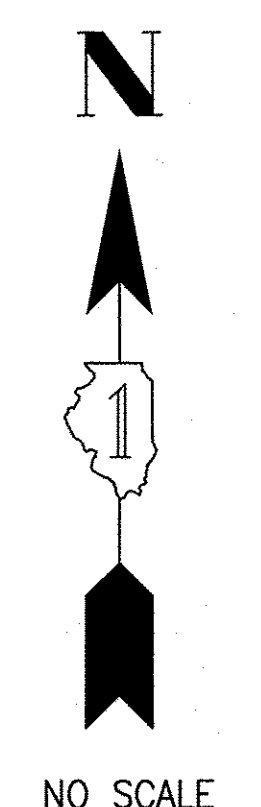
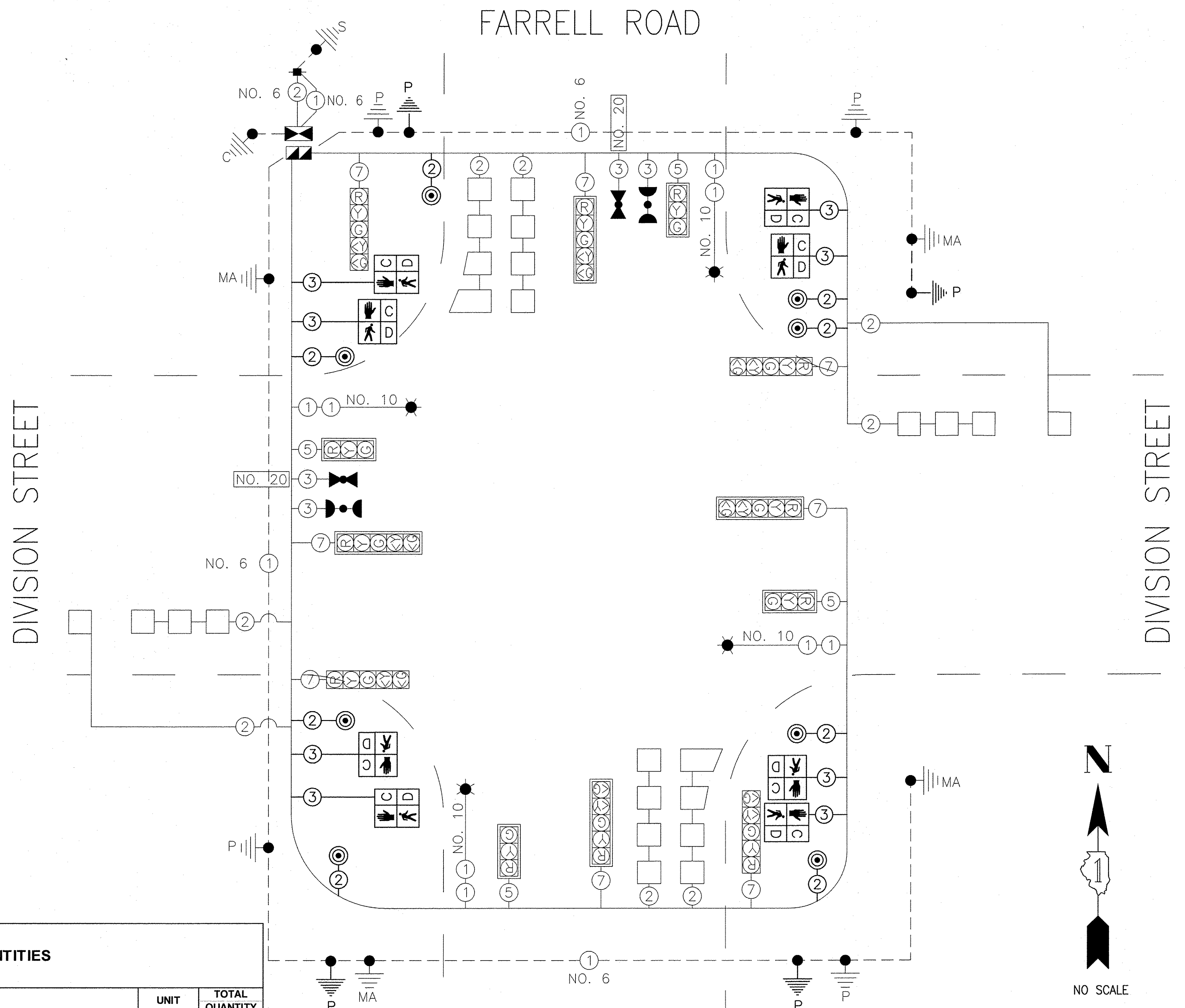
PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	400	50	800
ENERGY COSTS TO:			TOTAL =	1218.8
BILL TO: CITY OF LOCKPORT				
ADDRESS: 222 E. 9th STREET				
ADDRESS: LOCKPORT, ILLINOIS 60441				
ENERGY SUPPLY: CONTACT: TONY COX				
PHONE: 815-724-5010				
COMPANY: COMED				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	78
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	876
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	940
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16
87900200	DRILL EXISTING HANDHOLE	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88800100	PEDESTRIAN PUSH BUTTON	EACH	8
89502200	MODIFY EXISTING CONTROLLER	EACH	1
X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	4

**CABLE PLAN**



NO SCALE

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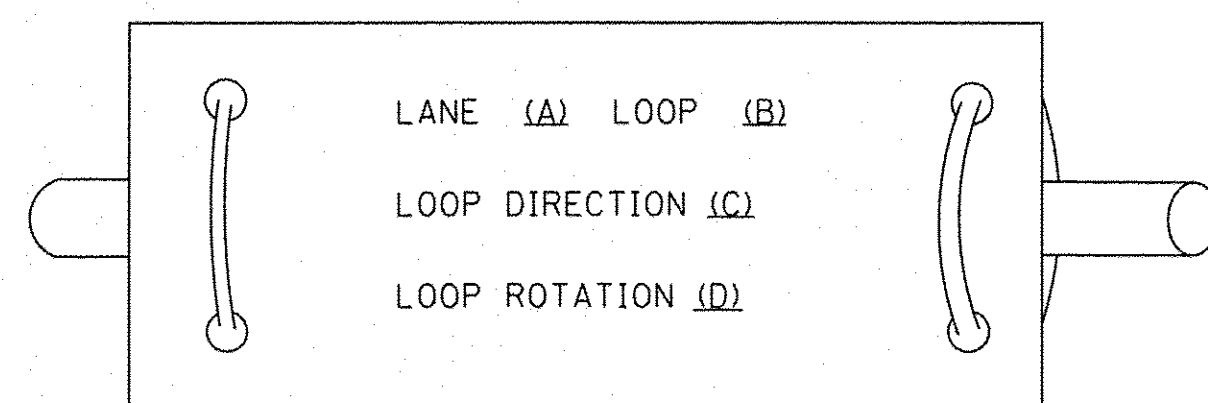
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED QUEUE DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				<b>RAILROAD SYMBOLS</b>			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				EXISTING		PROPOSED	
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
DETECTOR LOOP, TYPE I				RADIO REPEATER				FLASHING SIGNAL			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

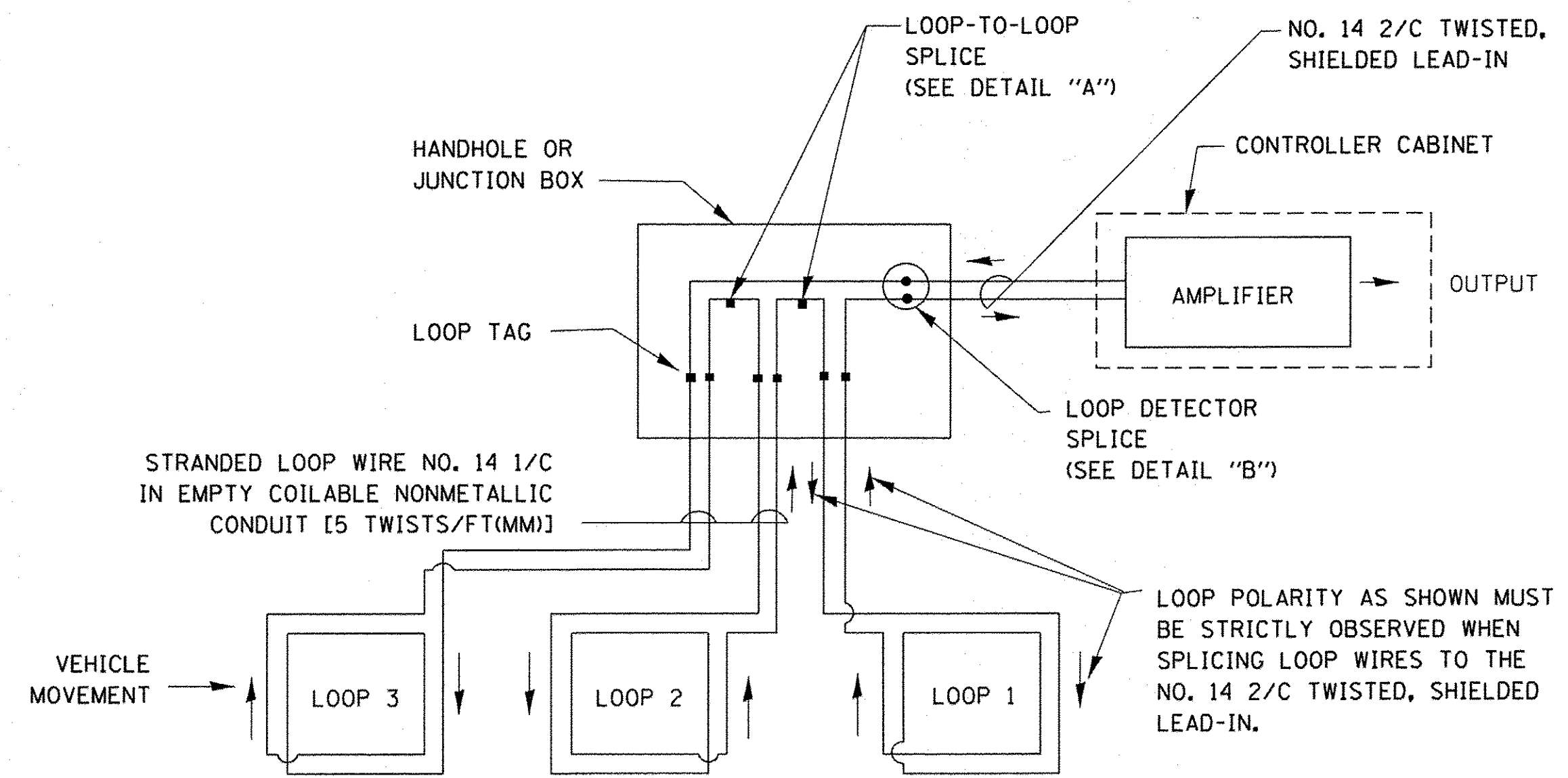
**LOOP DETECTOR NOTES**

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND 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.
- 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.
- 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**

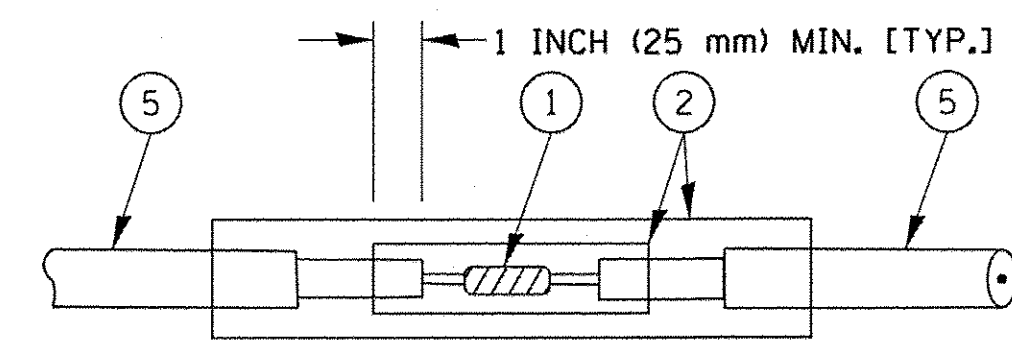


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

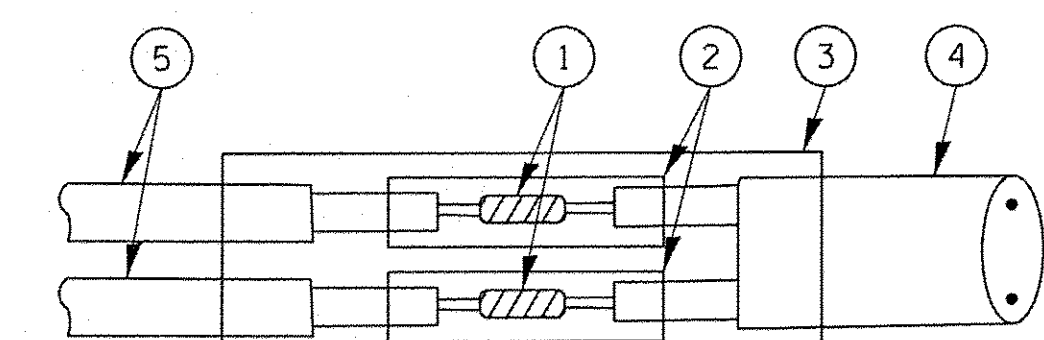


**DETECTOR LOOP WIRING SCHEMATIC**

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

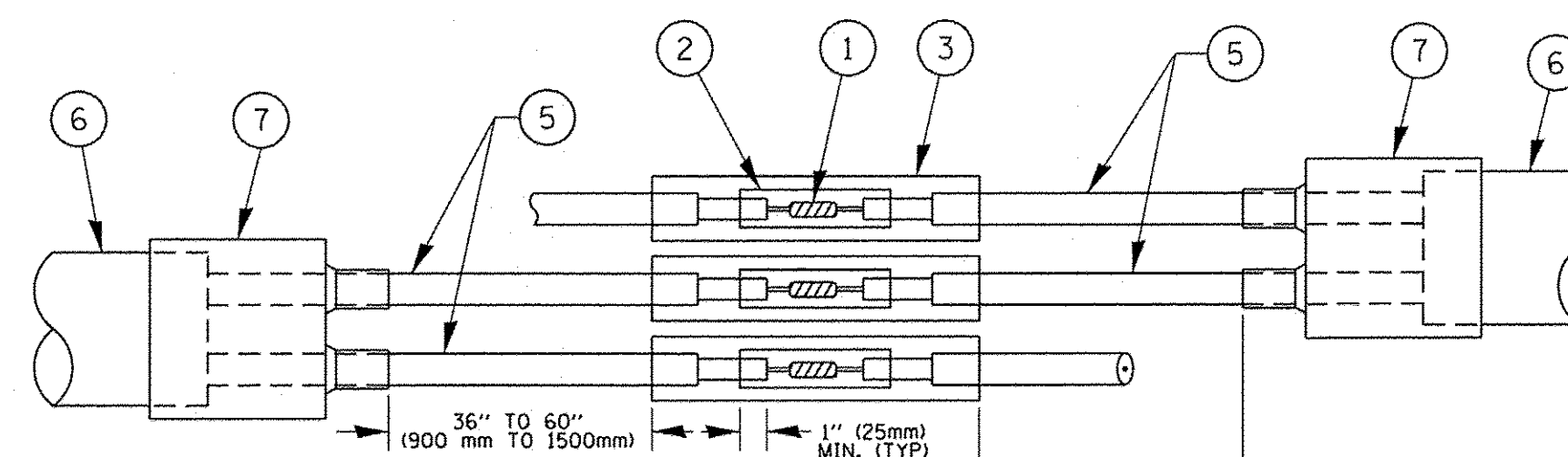


DETAIL "A"  
LOOP-TO-LOOP SPLICE

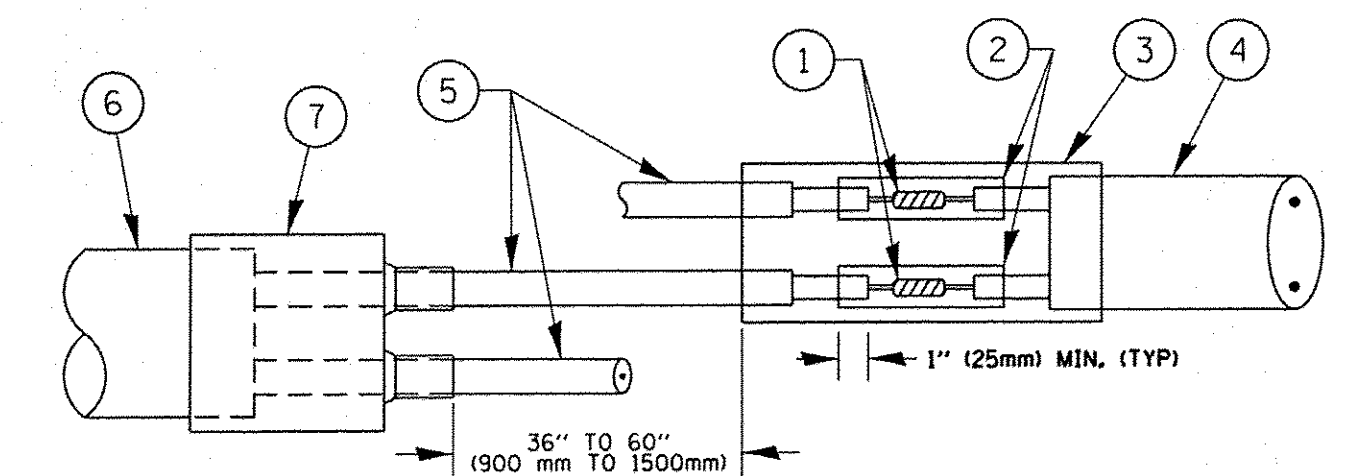


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

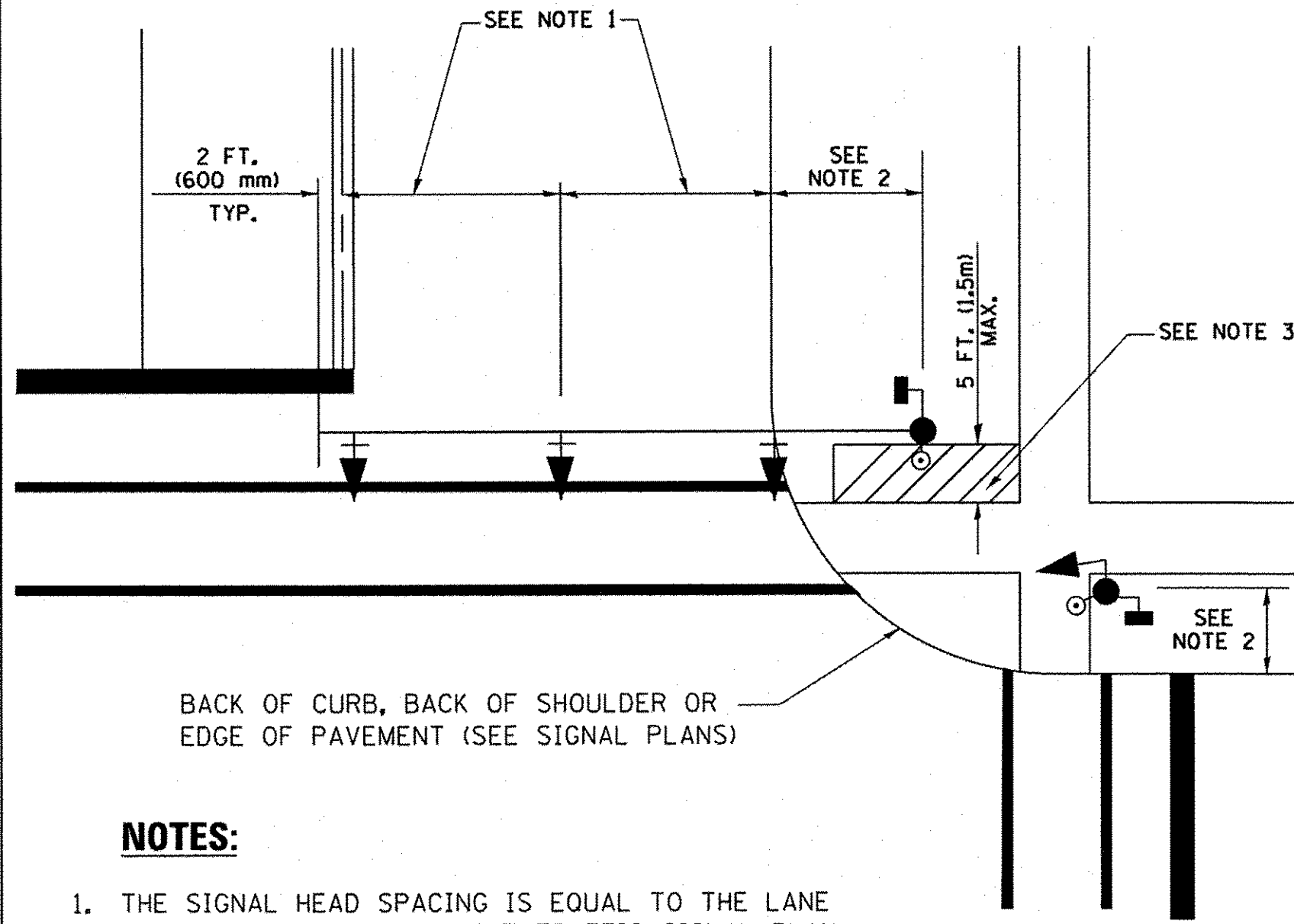
**LOOP DETECTOR SPLICE**

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

FILE NAME =	USER NAME = ffootemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.U. RTE. 363/291/366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 45
c:\pwork\pwork\footemj\0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 61D48		
		CHECKED - DAD	REVISED -									
		DATE - 10-28-09	REVISED -									
		PLOT SCALE = 50.0000' / in.										
		PLOT DATE = 1/13/2014										
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT												



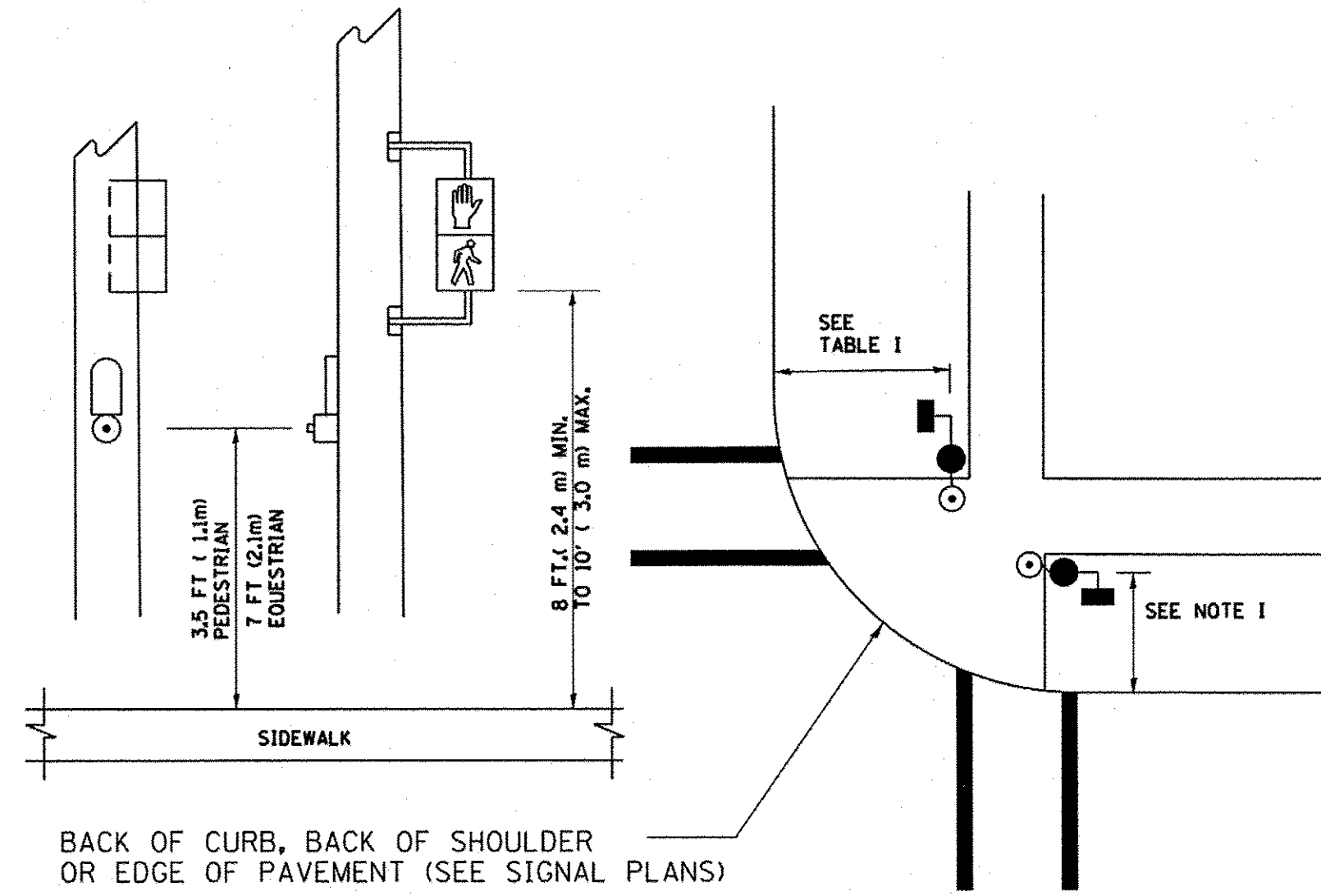
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

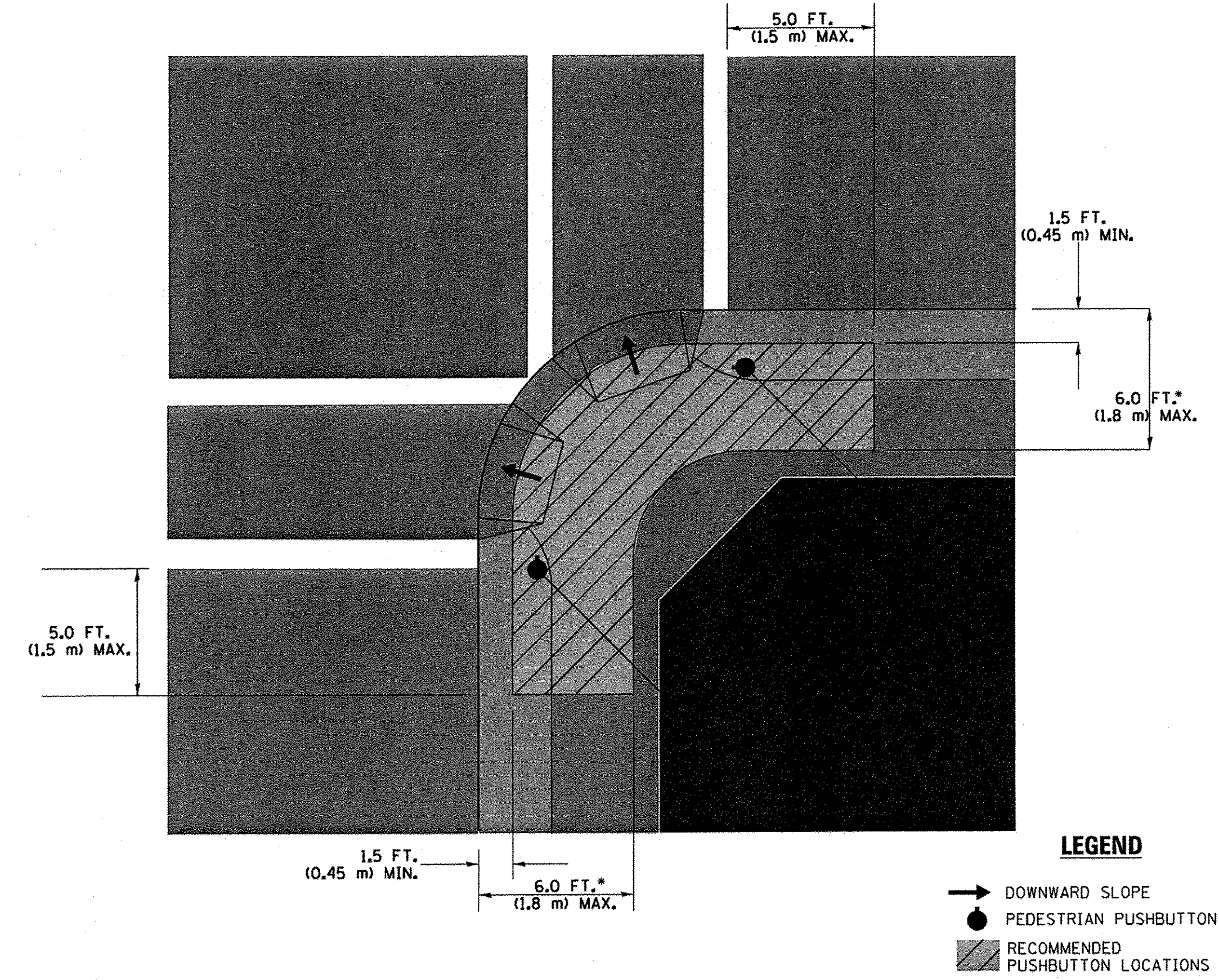
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



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

**NOTES:**

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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

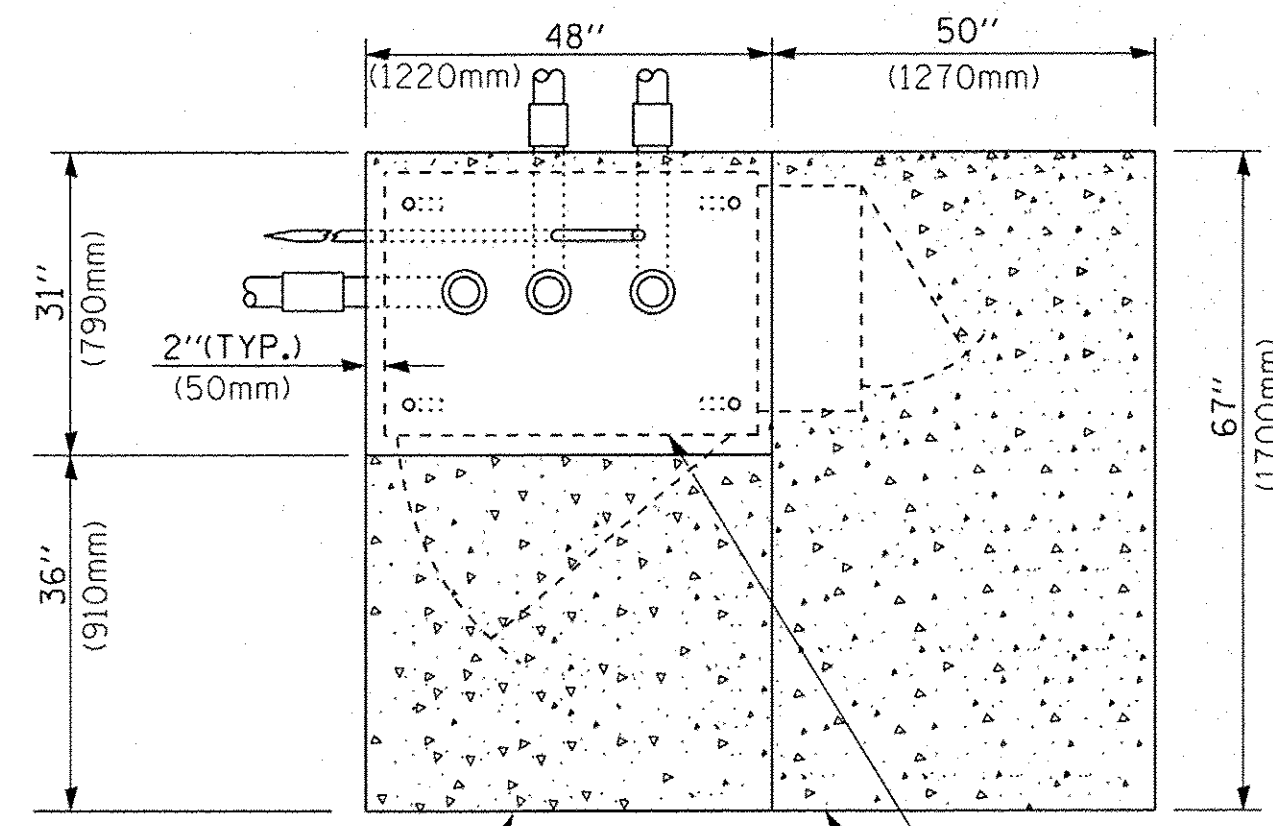
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT 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.

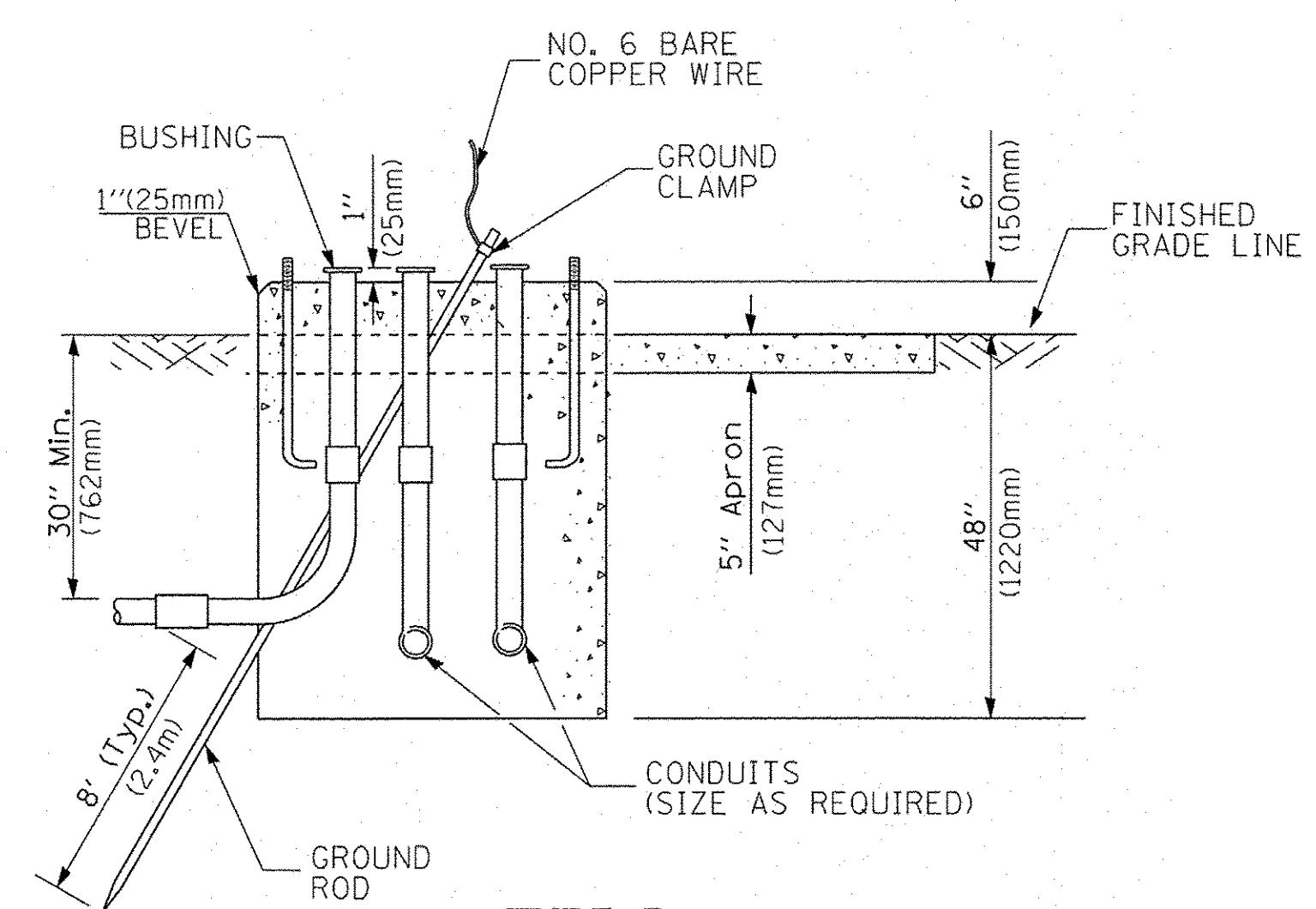








**TOP VIEW**



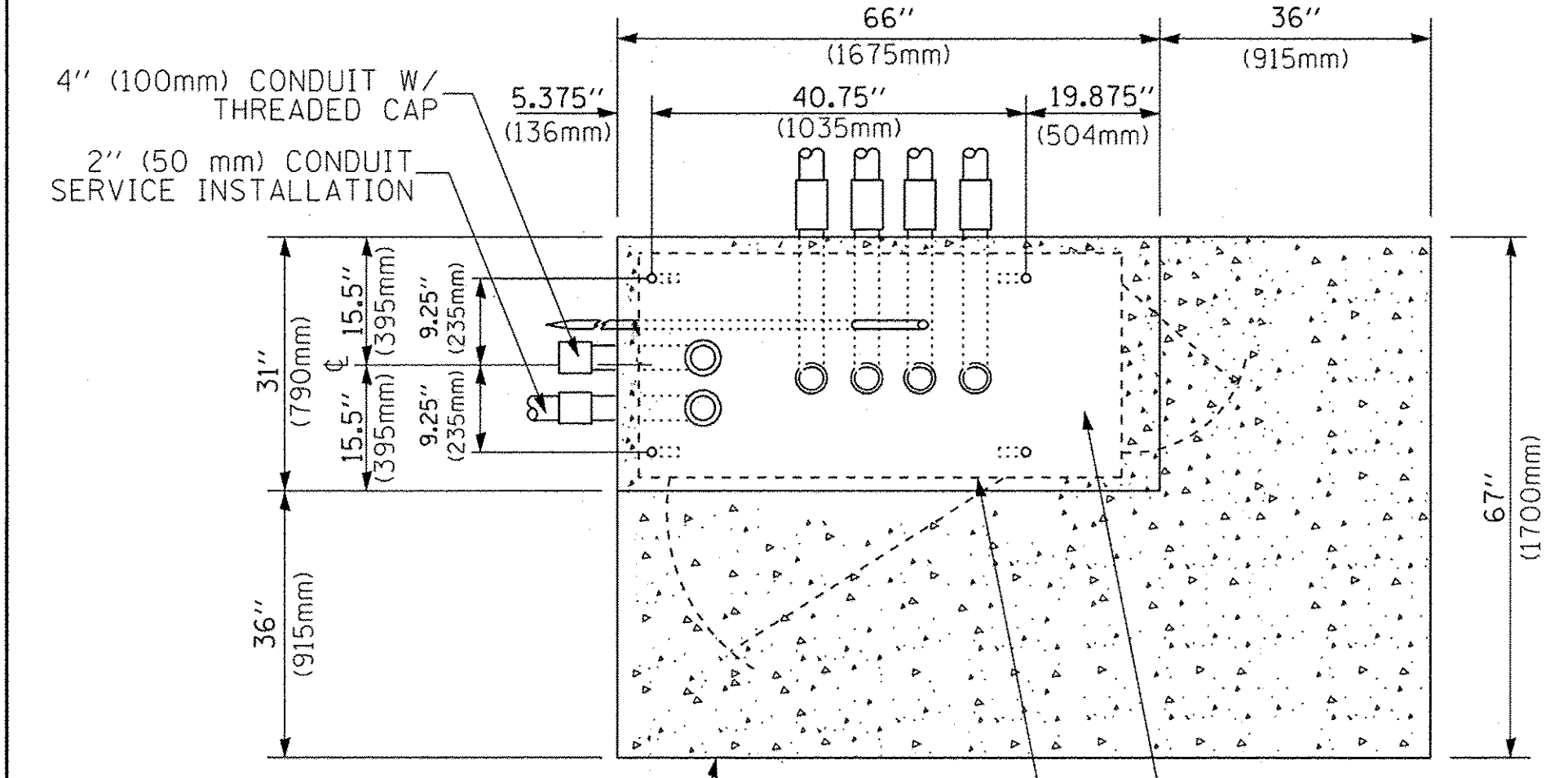
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

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

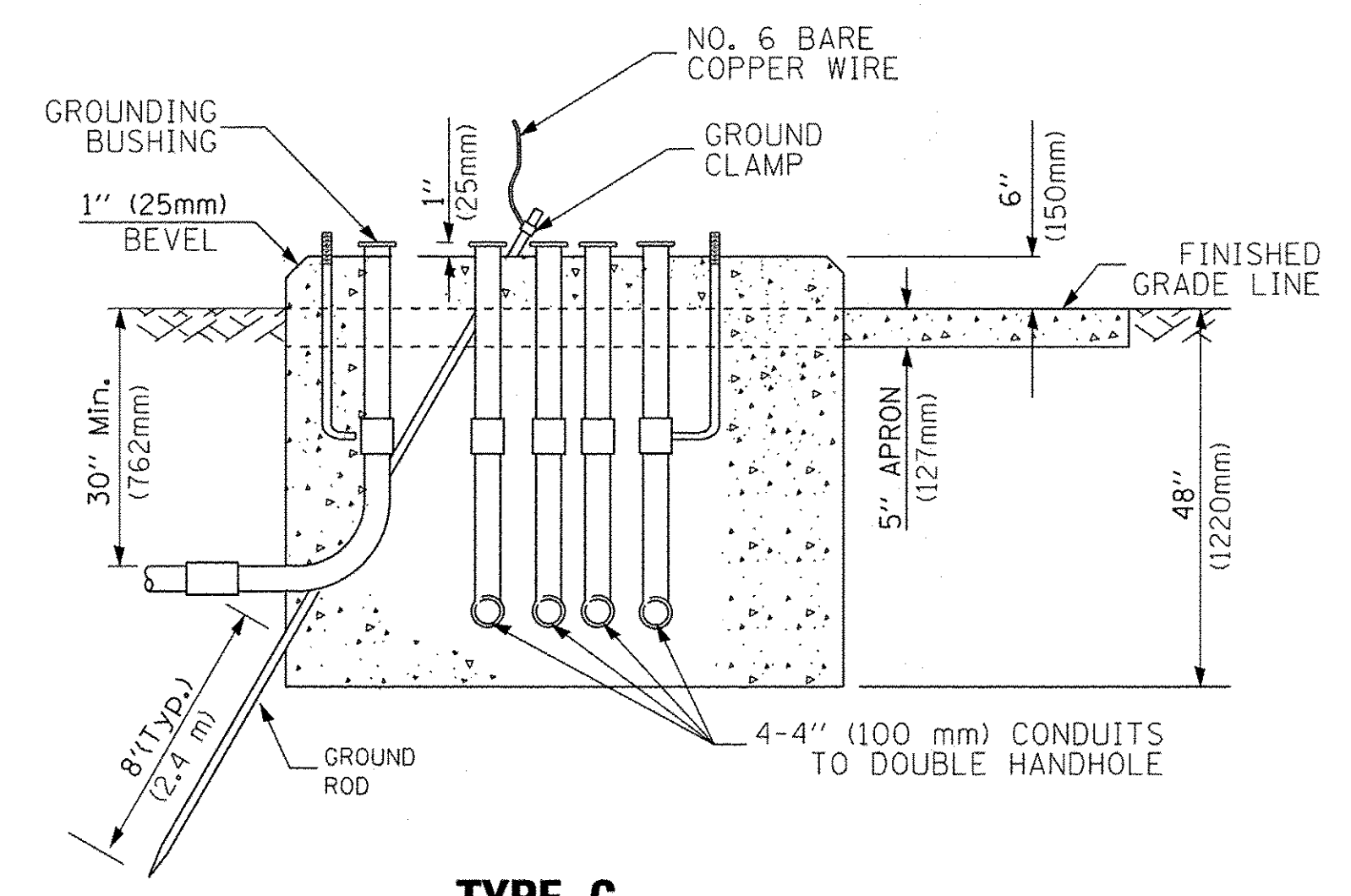
**CABLE SLACK**

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**



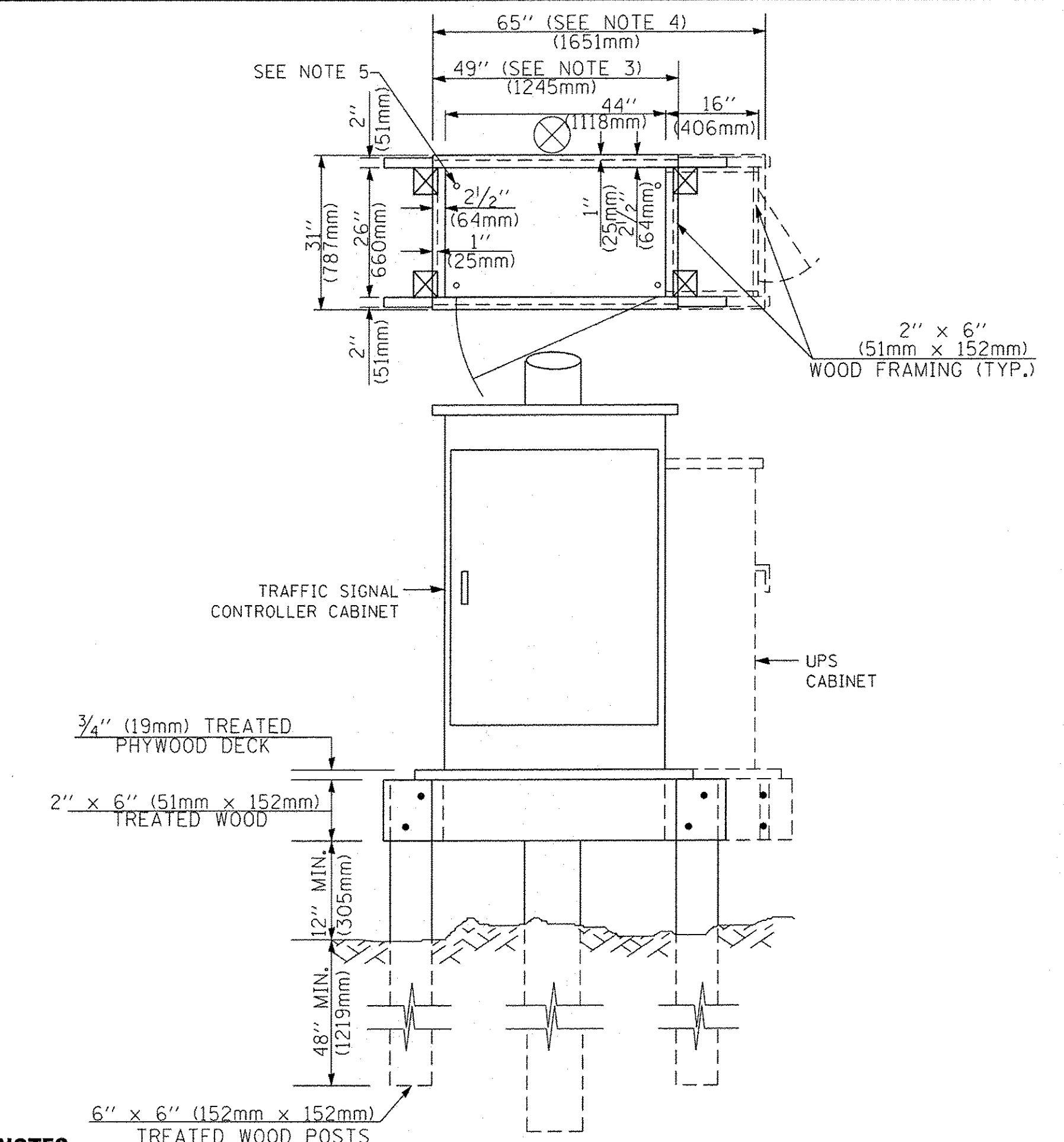
**TOP VIEW**



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

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**



**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**

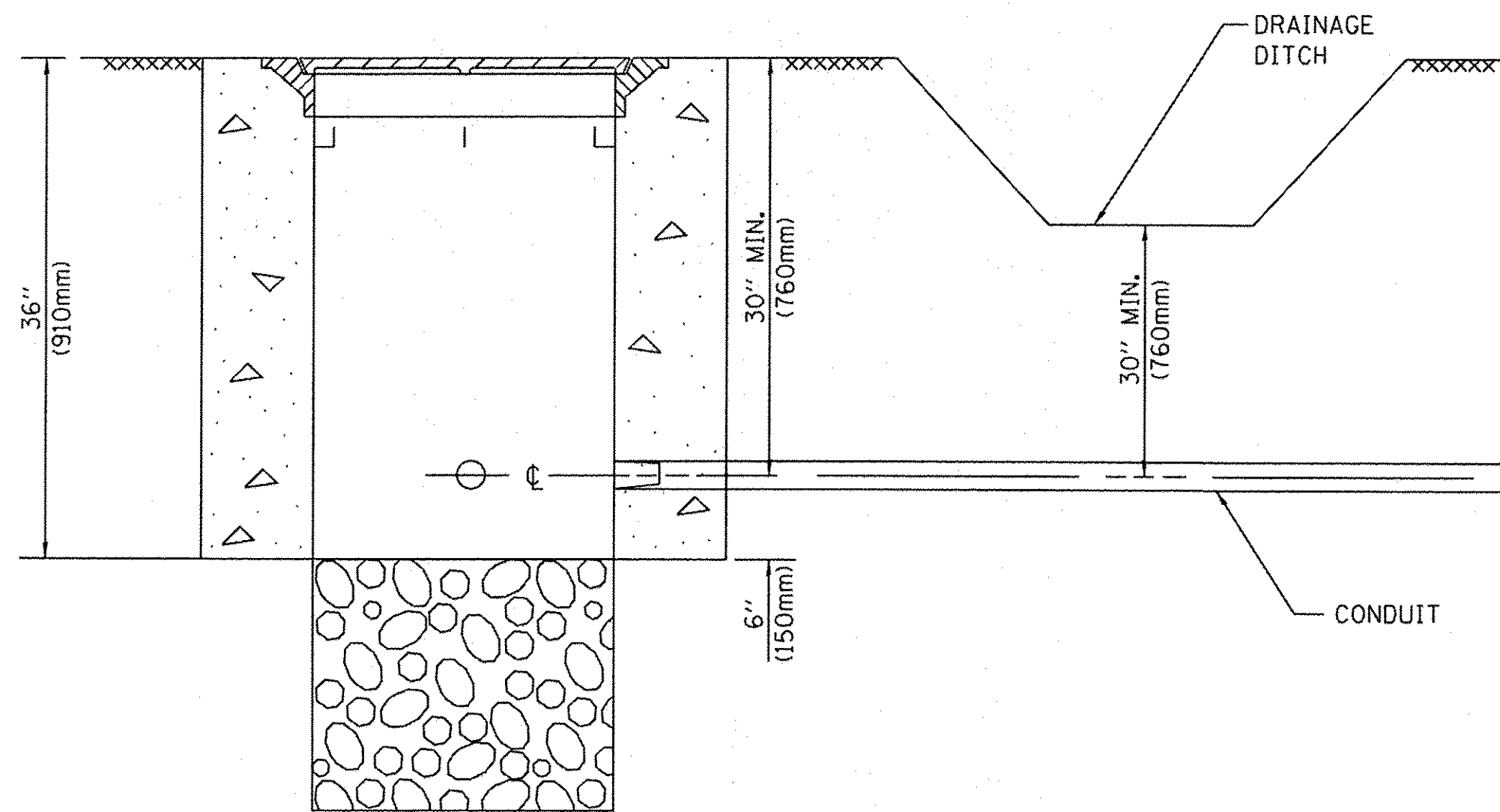
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or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

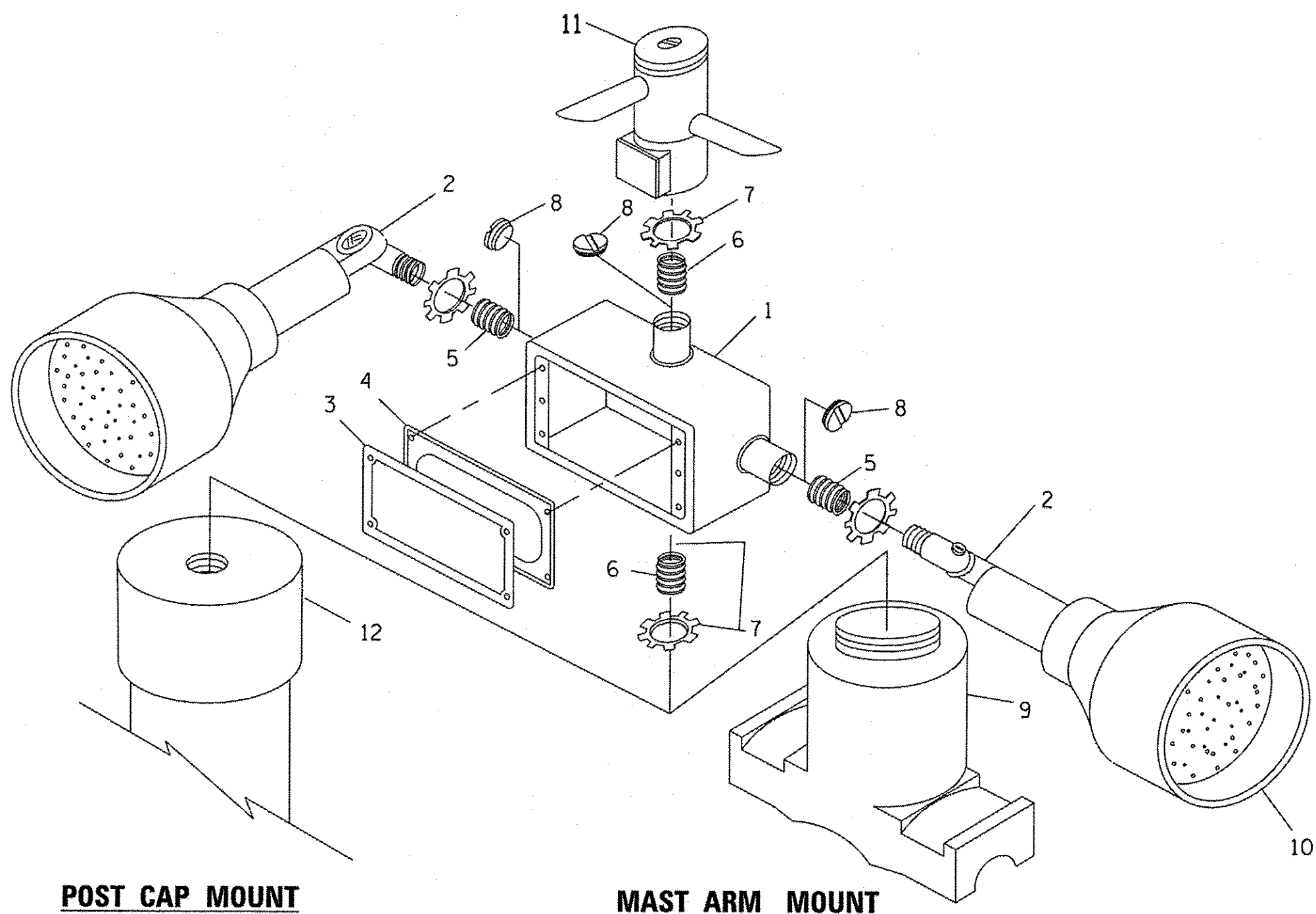




**NOTES:**

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

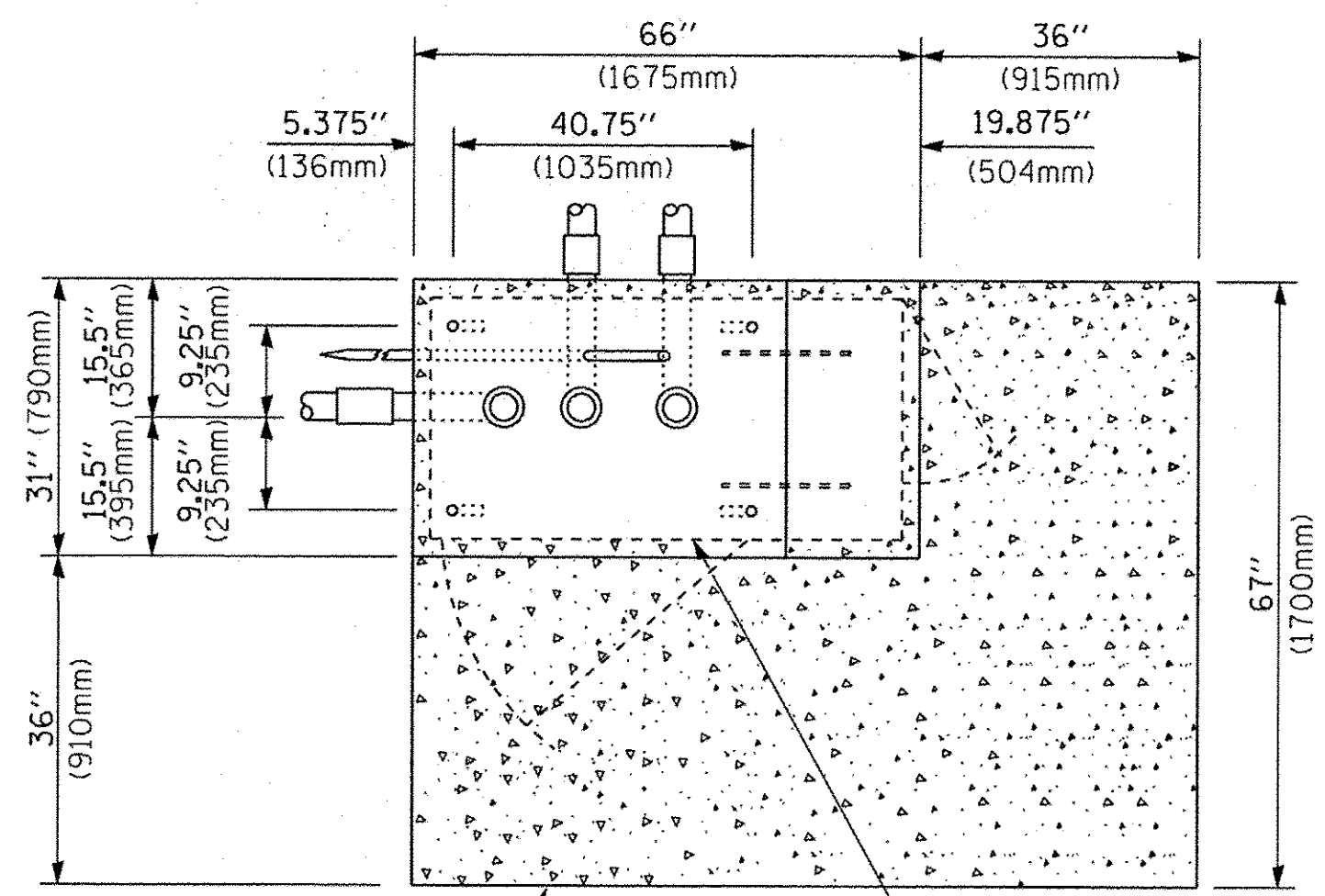
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



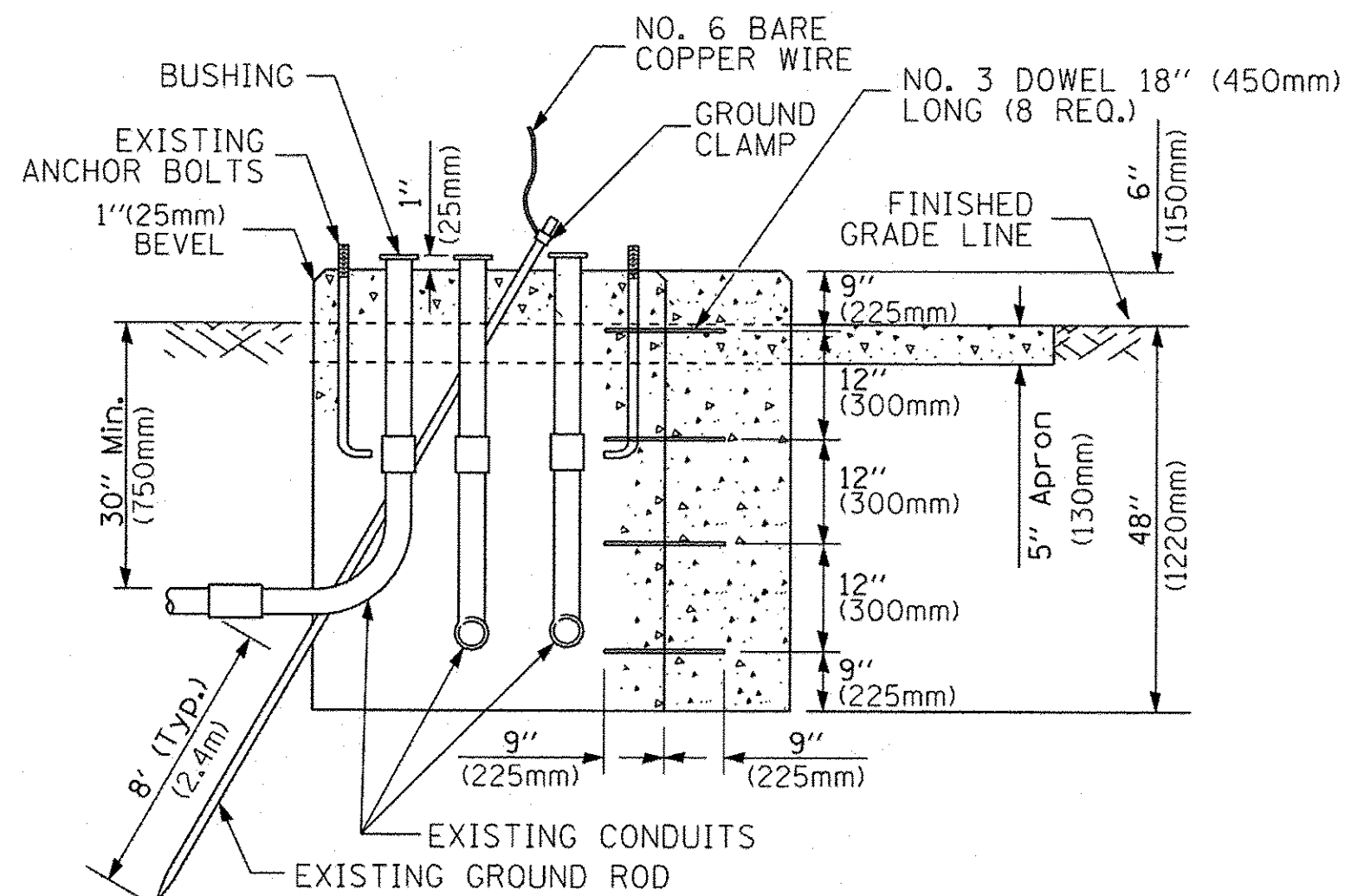
**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

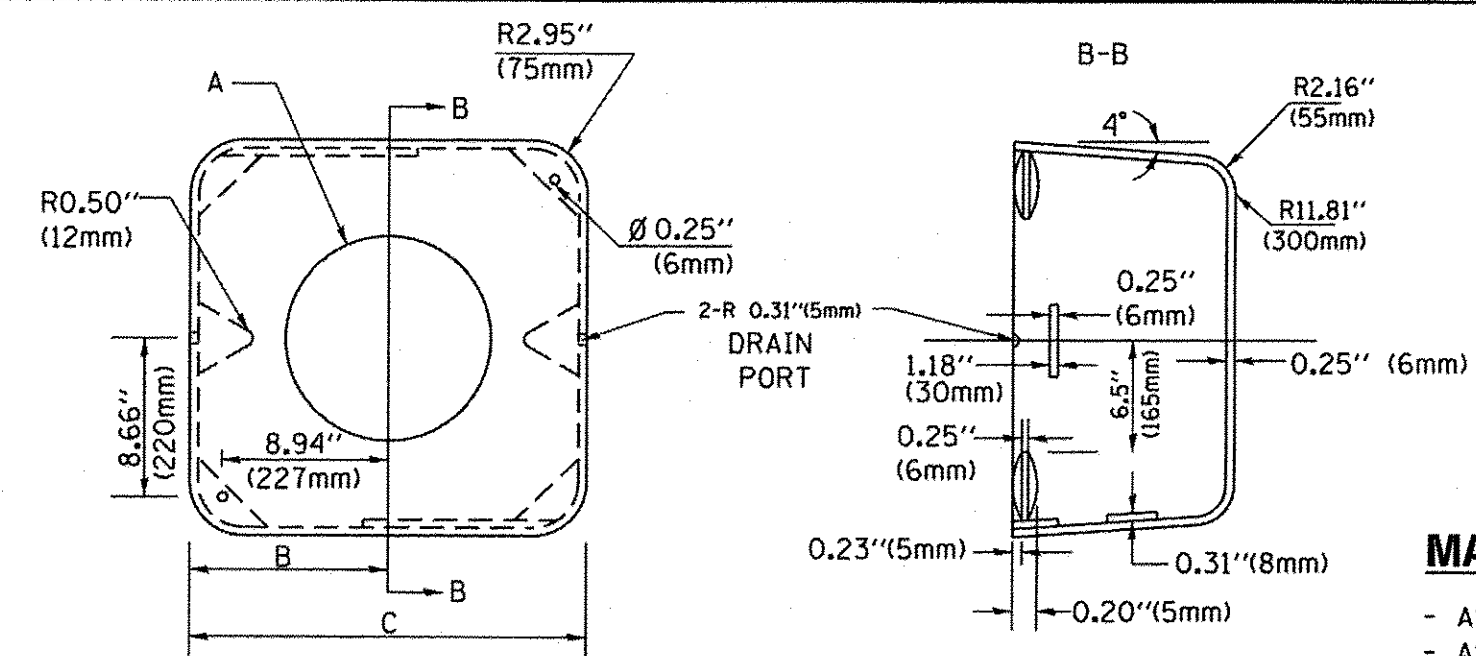


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.00344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

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



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

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

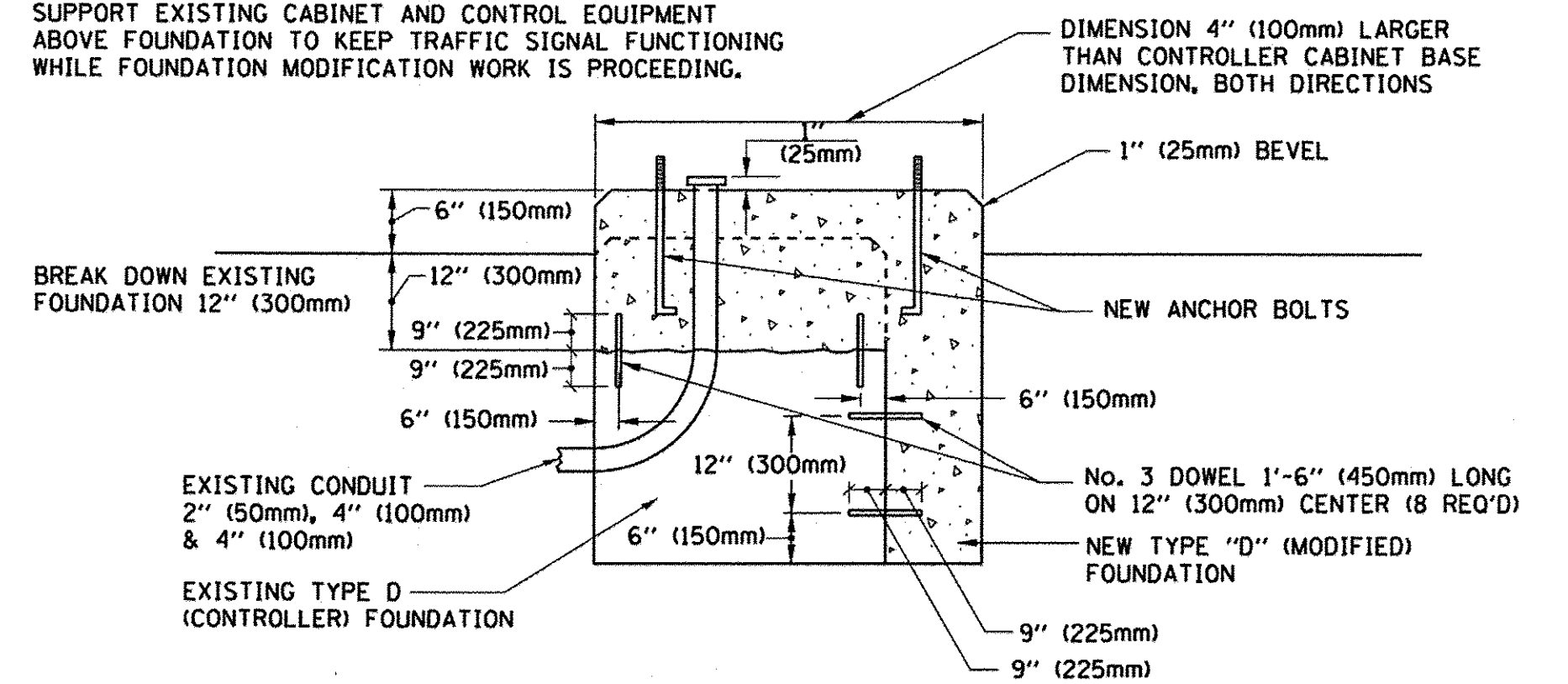
**SHROUD**

**NOTES:**

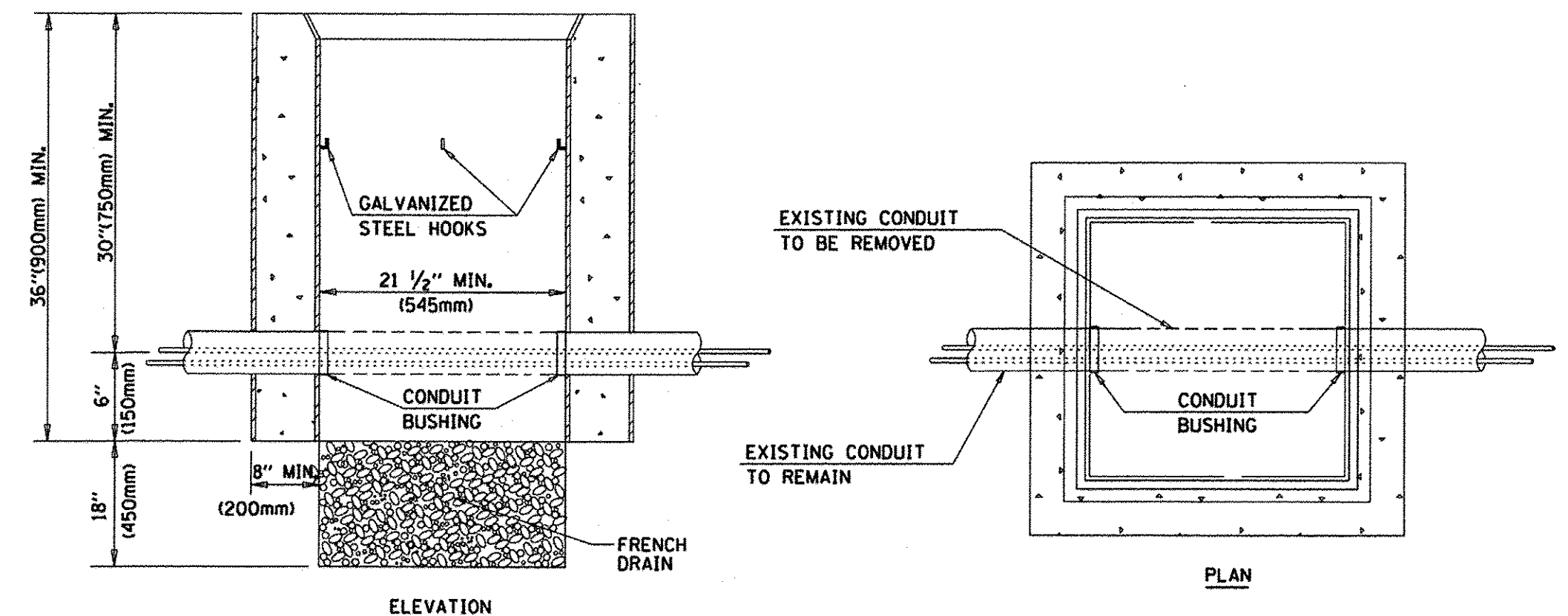
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

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

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

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		DATE - 10-28-09	REVISED -

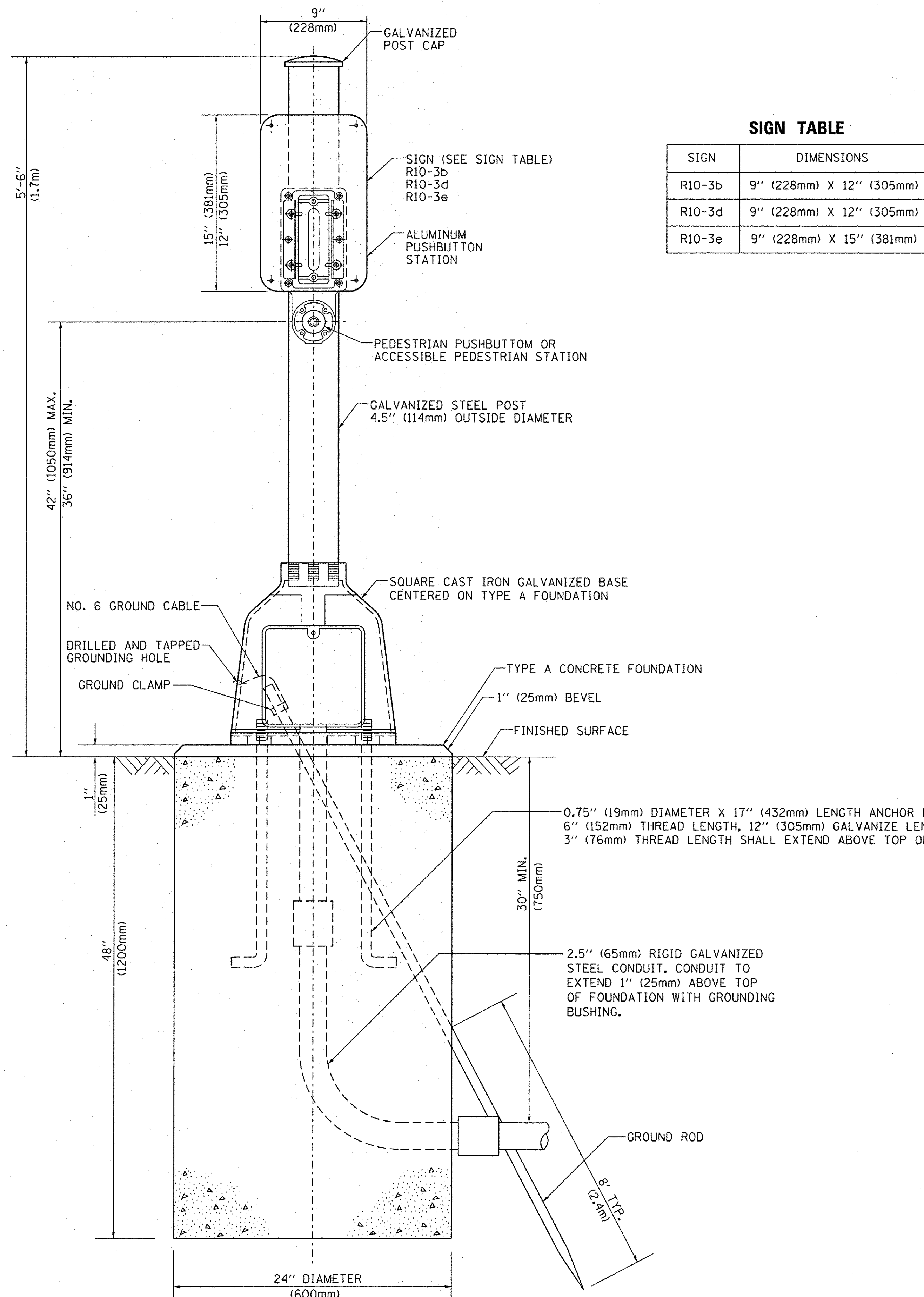
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

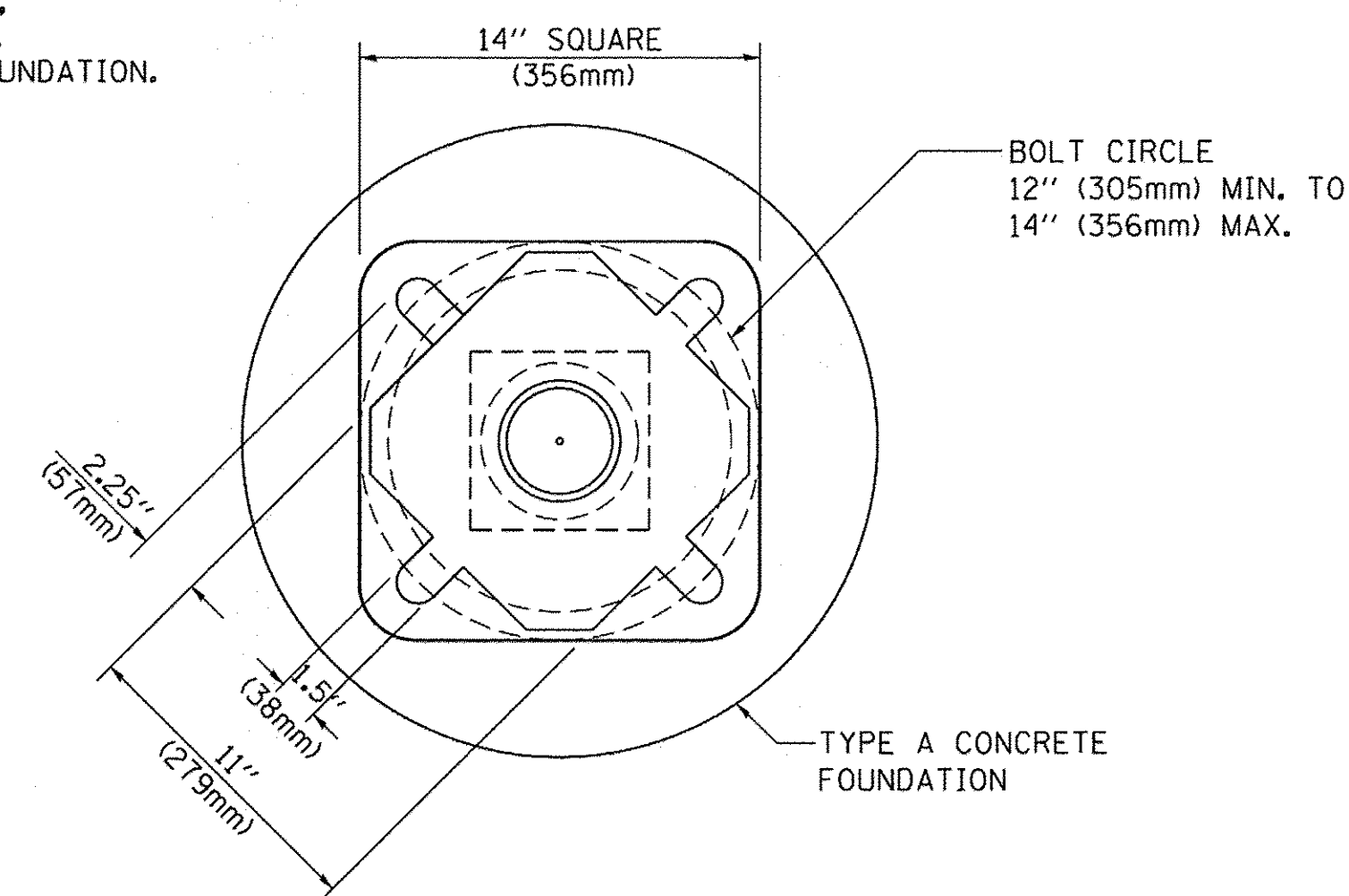
F.A.U. RTE. 383/291/386	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 49
TS-05		CONTRACT NO.	61D48	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				





**SIGN TABLE**

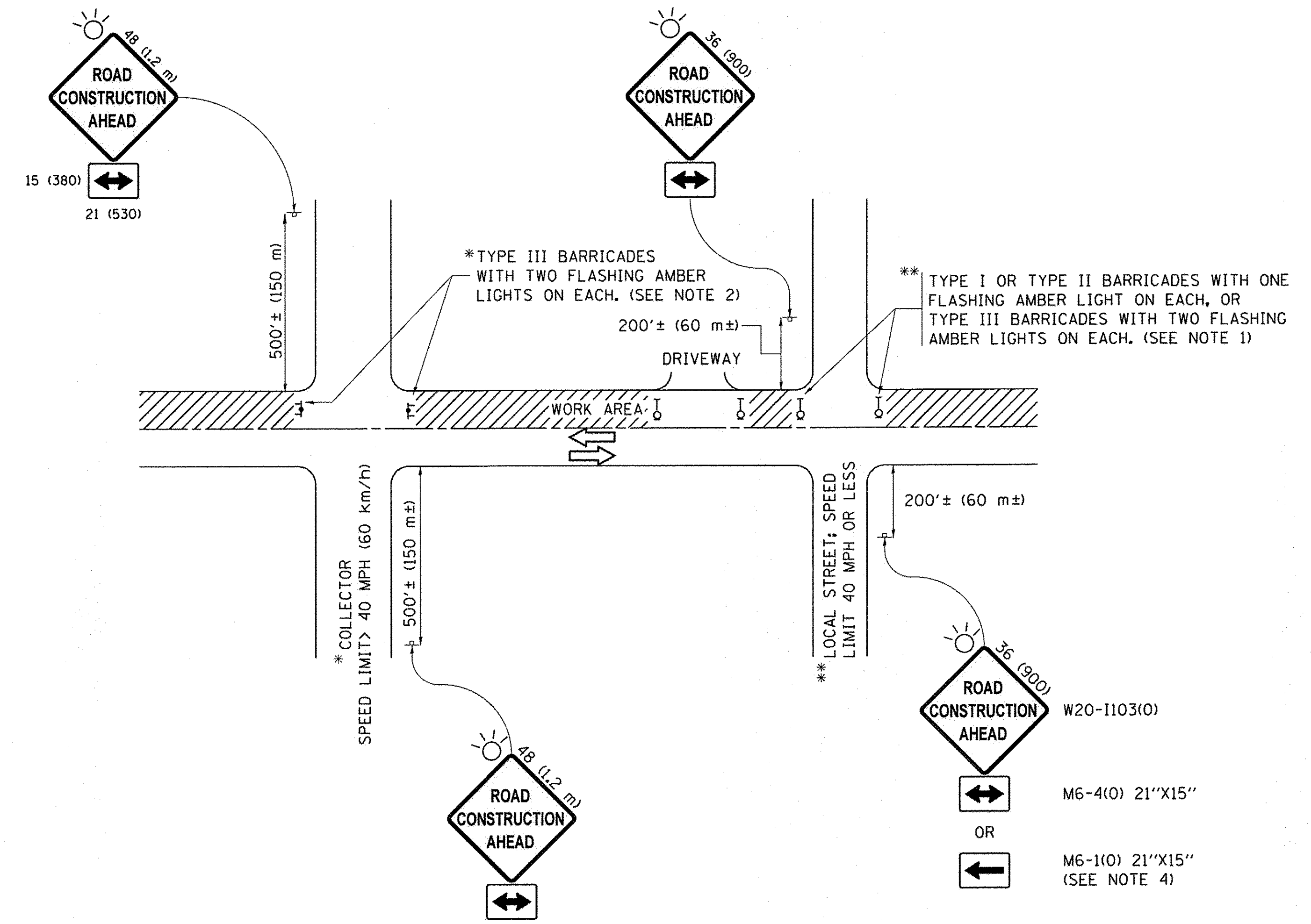
SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\footemj\0108315\ts05.dgn		DRAWN - GND	REVISED -		363/291/366	10-0072-00-BT	WILL	93	50			
PLOT SCALE = 50.0000' / 1"		CHECKED - DAD	REVISED -		<b>TS-05</b>			<b>CONTRACT NO.</b>		61D48		
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			



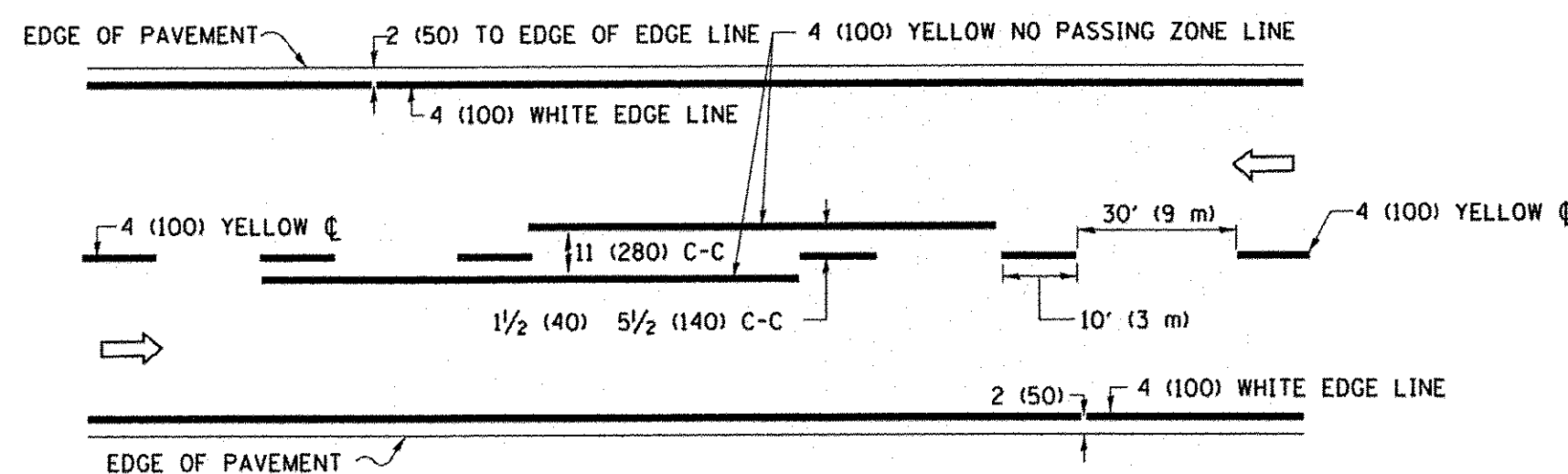
**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

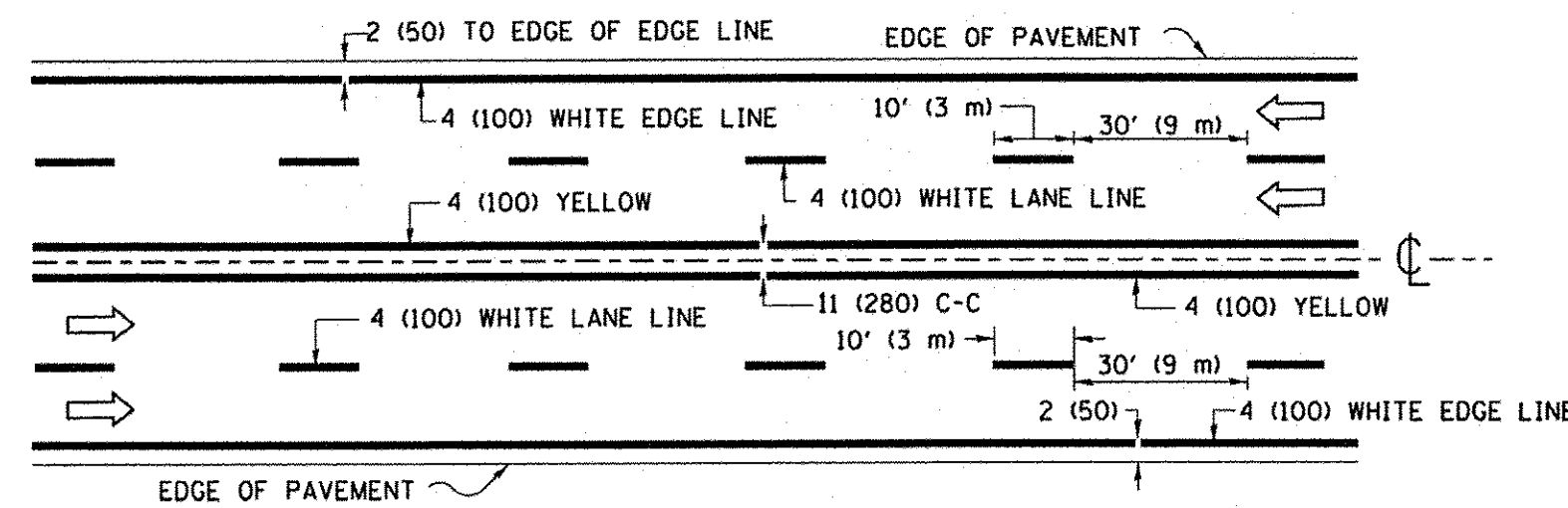
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>			F.A.U. RTE. 363/291/366	SECTION 10-0072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 51
Path: \\JL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\Drawn\CADD\etc\CAD\sheet\tc10.dgn	DRAWN	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA. TO STA.	<b>TC-10</b>		CONTRACT NO. 61D48
Default	PLOT SCALE = 50.000 / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16									

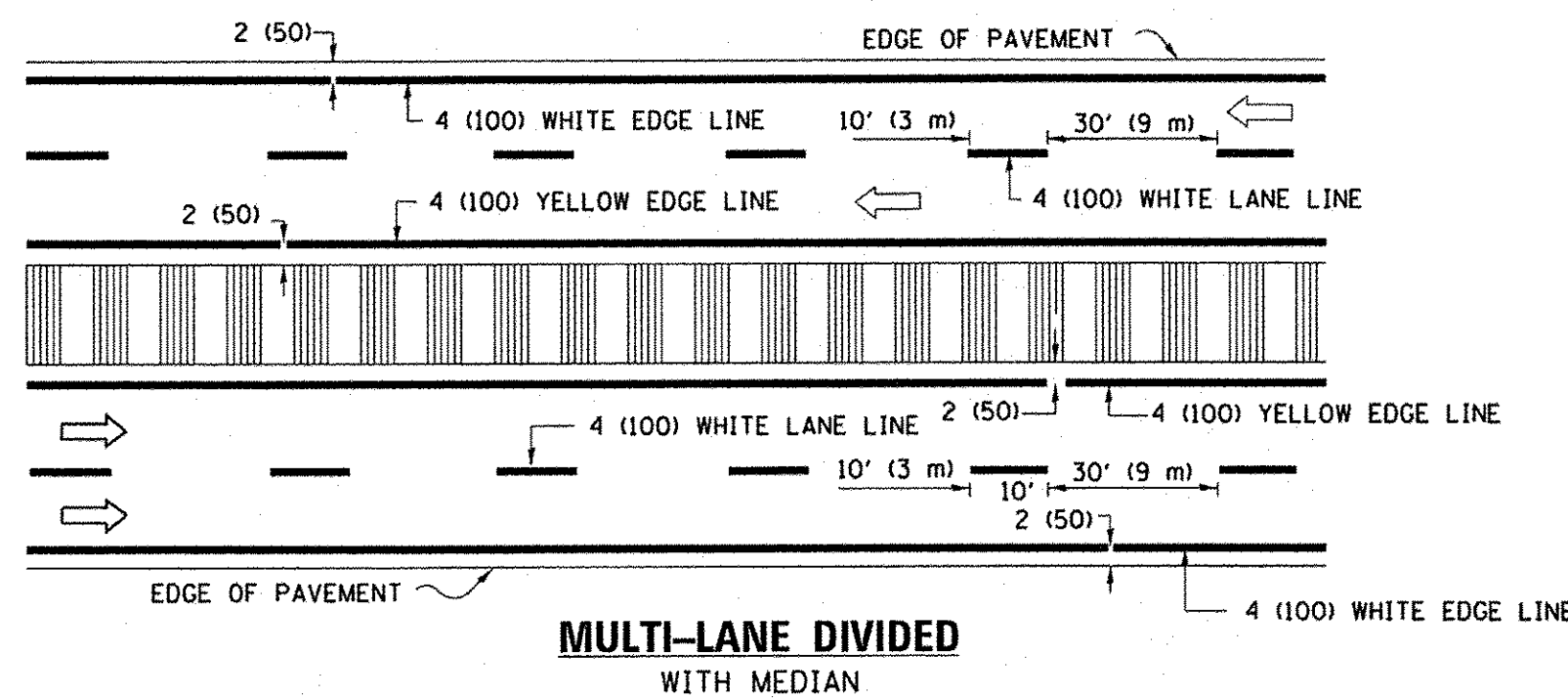




**2-LANE ROADWAY**

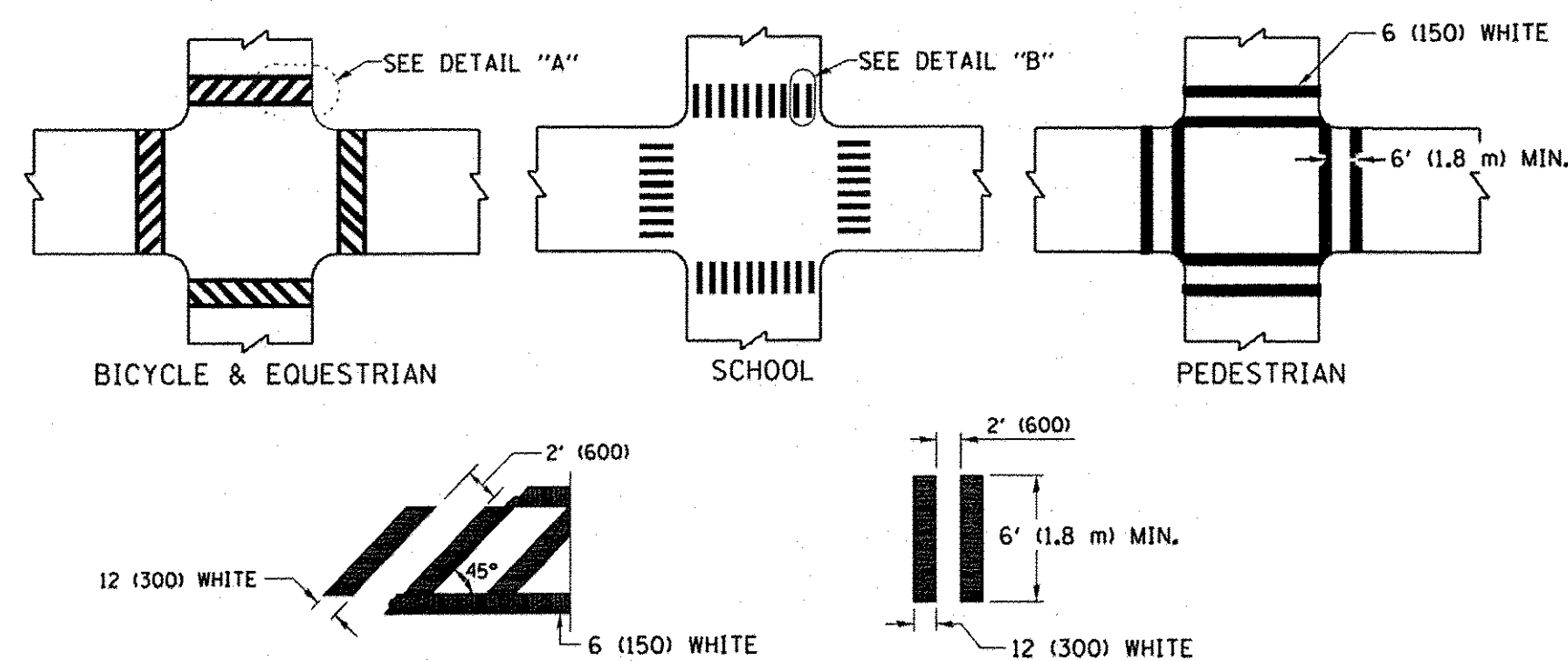


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

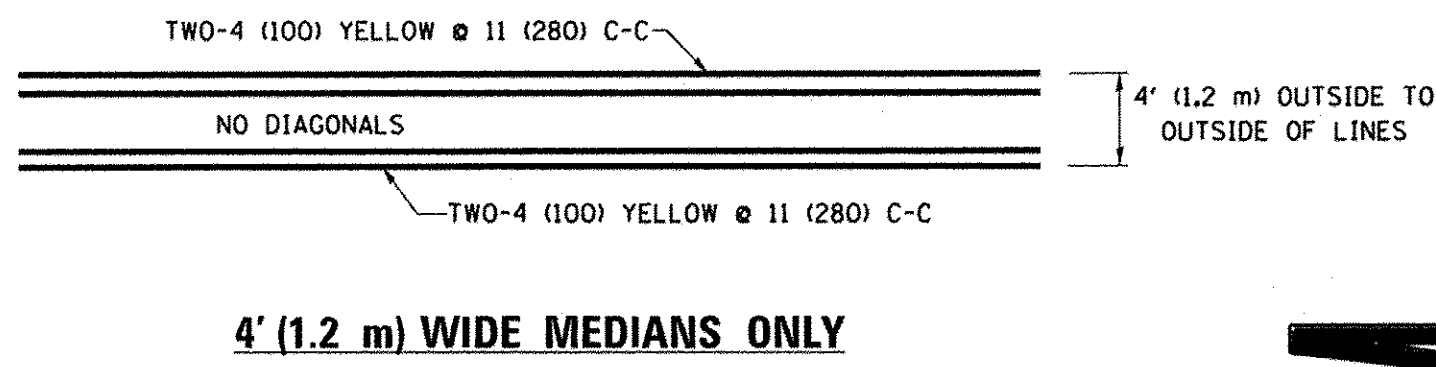


**DETAIL "A"**

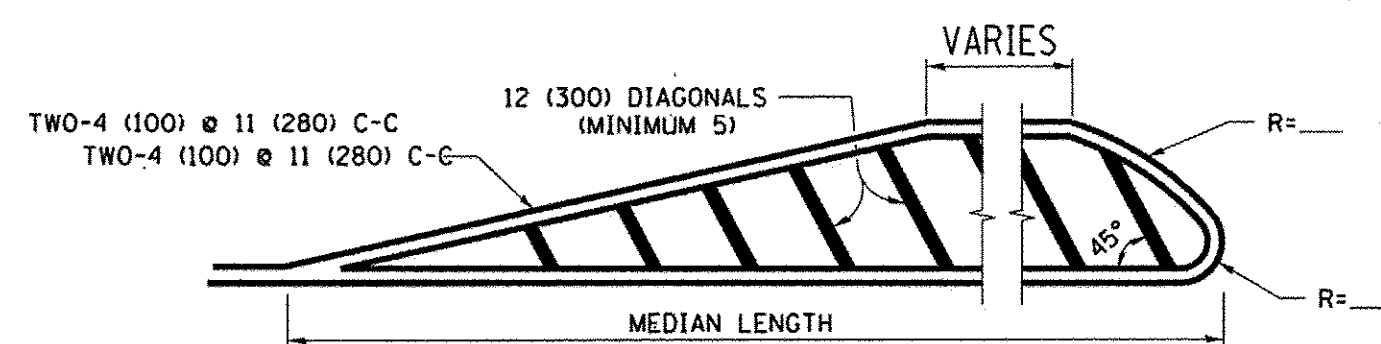
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

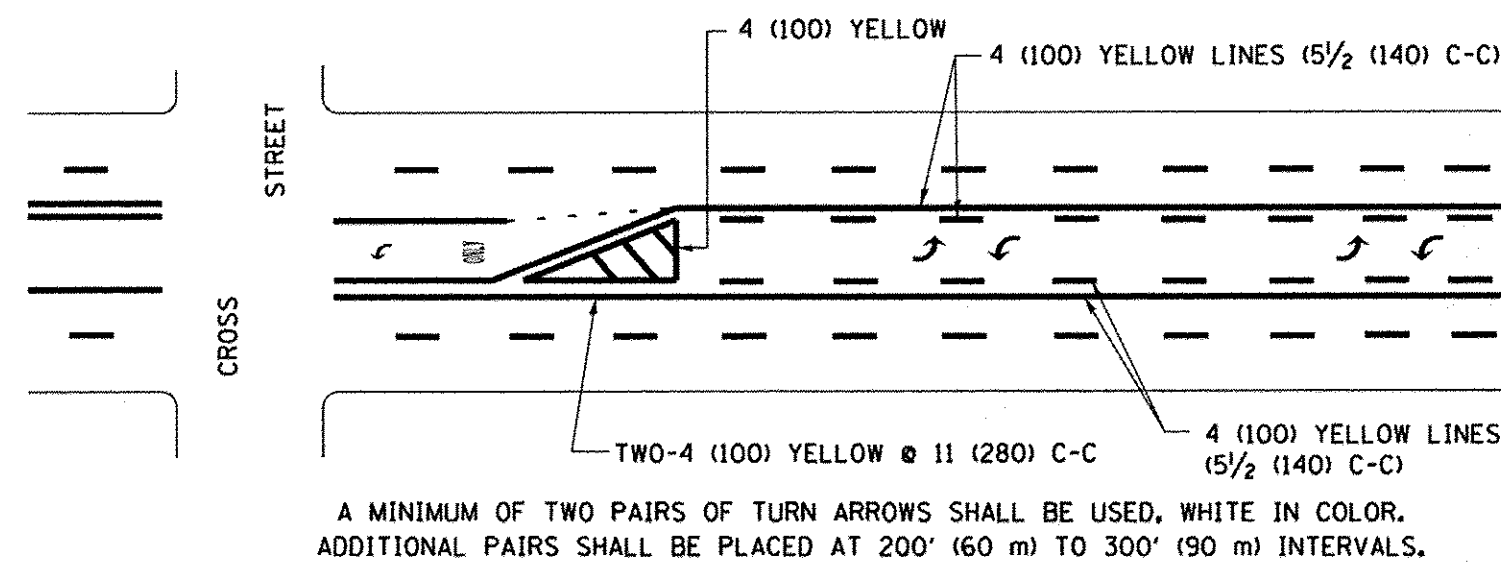


**4' (1.2 m) WIDE MEDIANS ONLY**



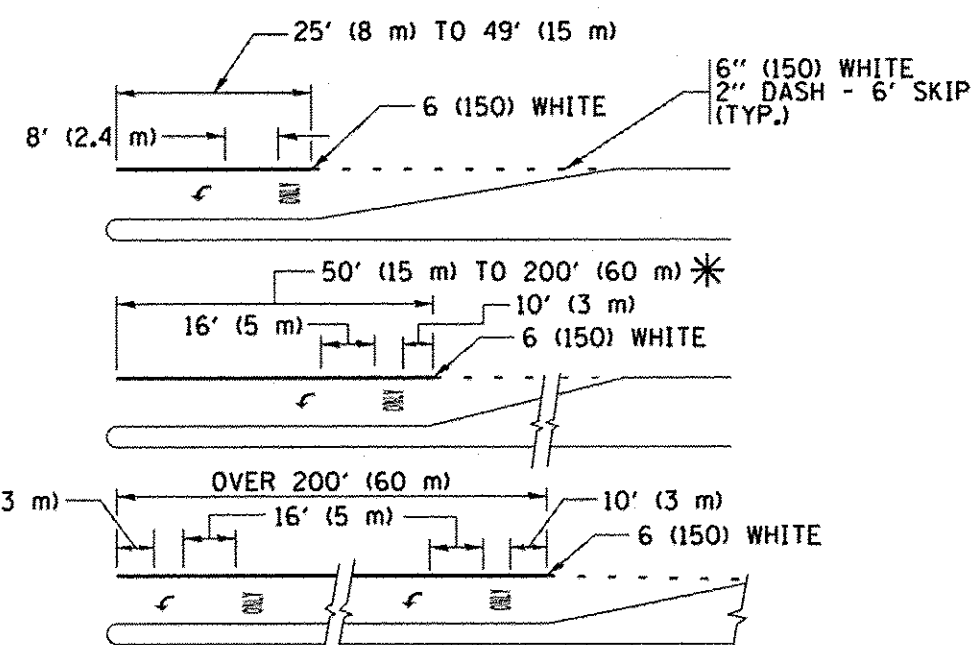
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

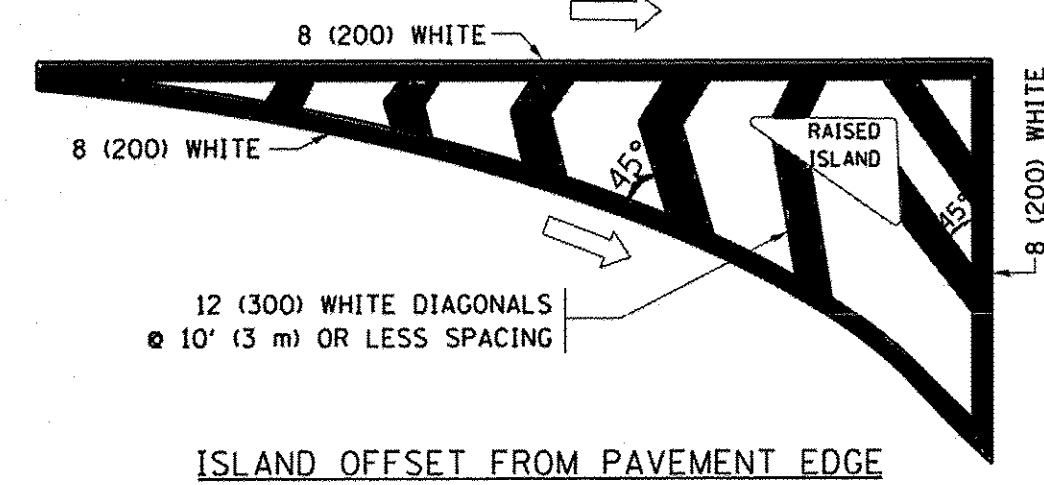
**TYPICAL PAINTED MEDIAN MARKING**



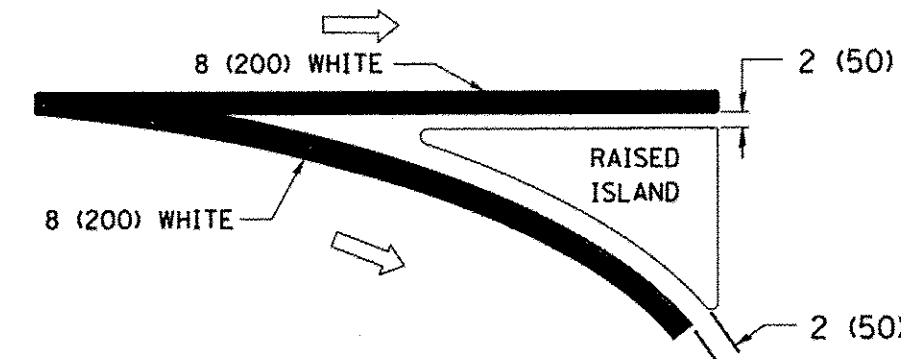
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 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".

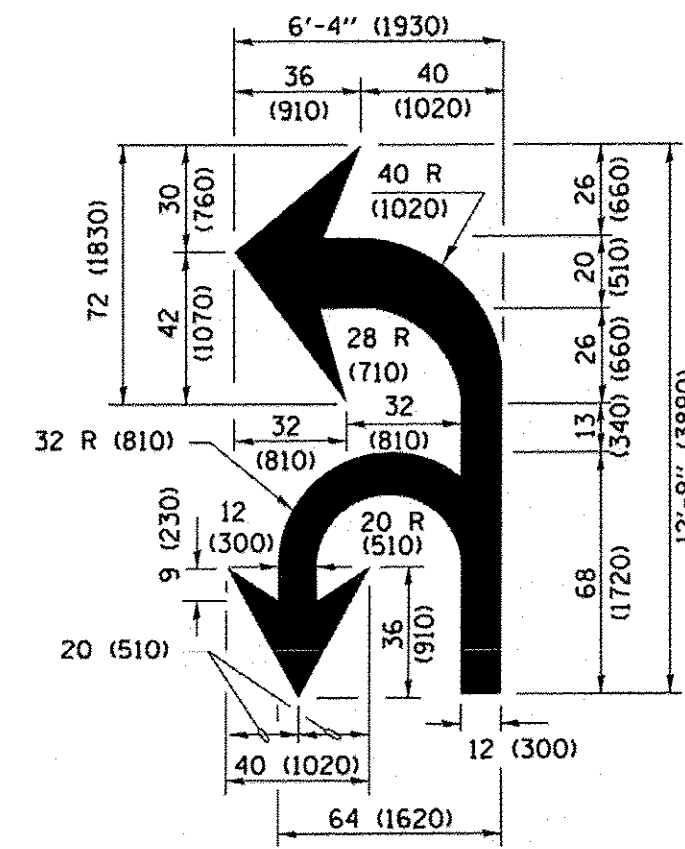


**ISLAND OFFSET FROM PAVEMENT EDGE**

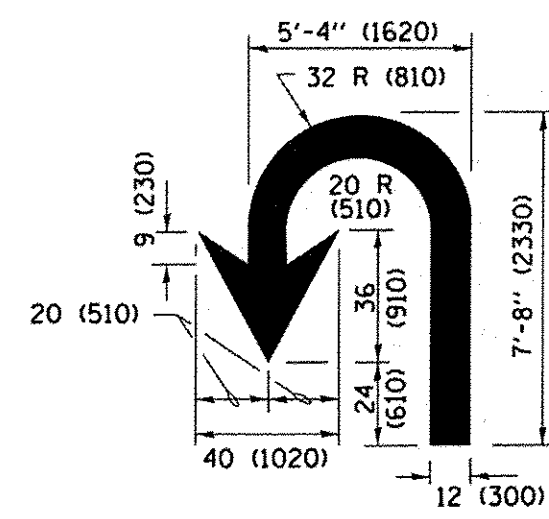


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

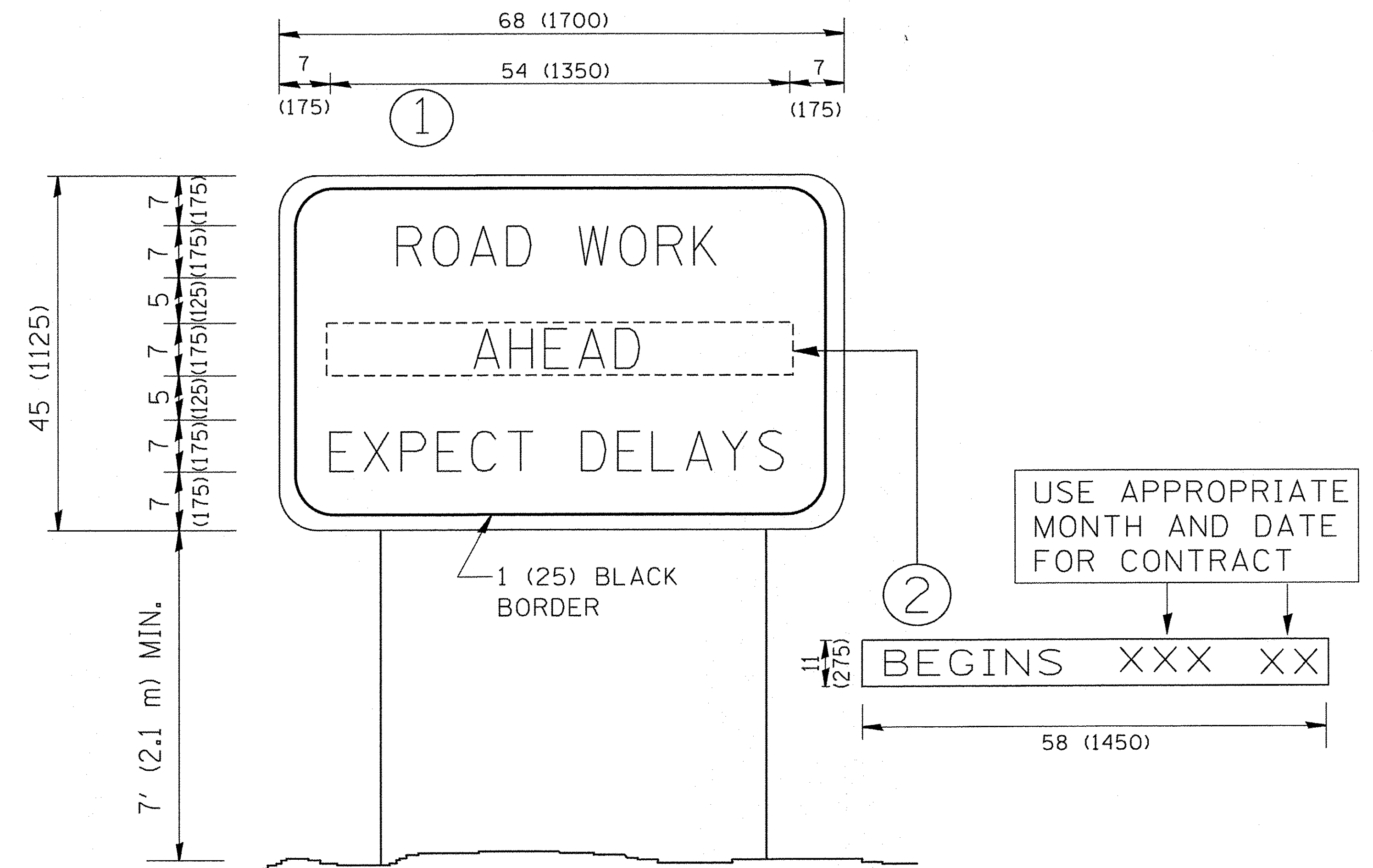
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS 8' (2.4m)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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



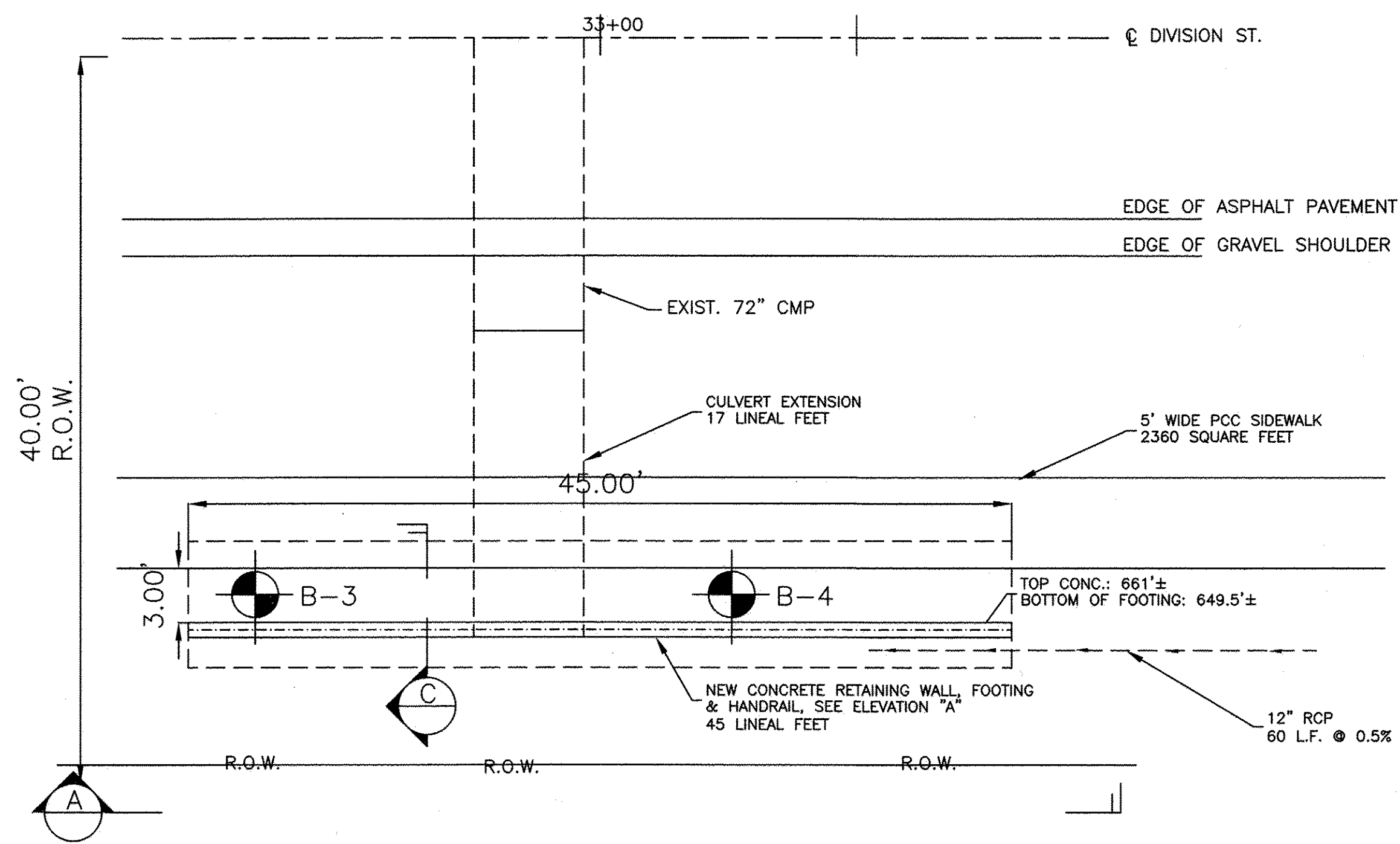
NOTES:

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

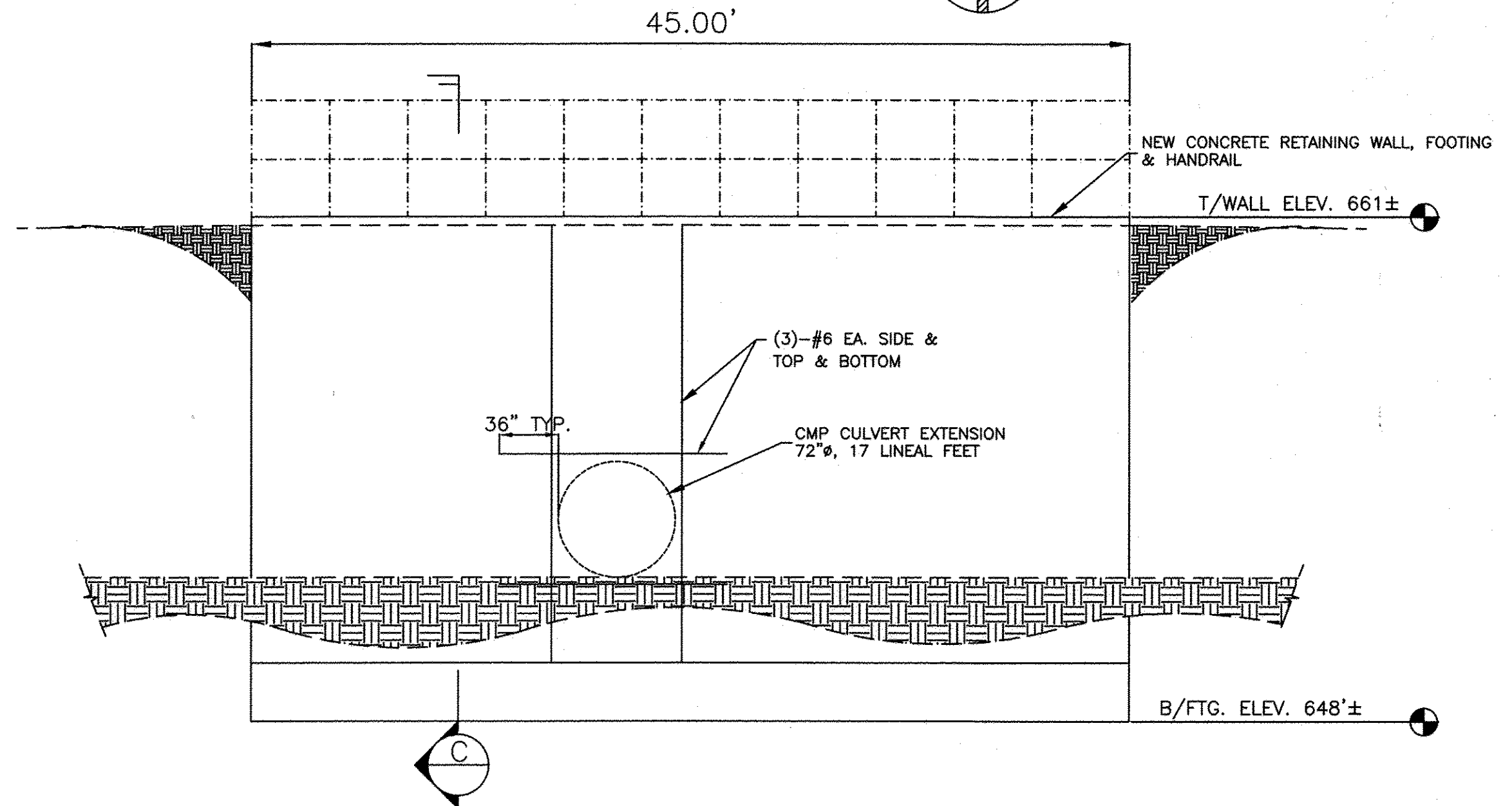
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglennob	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.U. RTE. 363/291/366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 53
PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-22		CONTRACT NO. 61D48
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

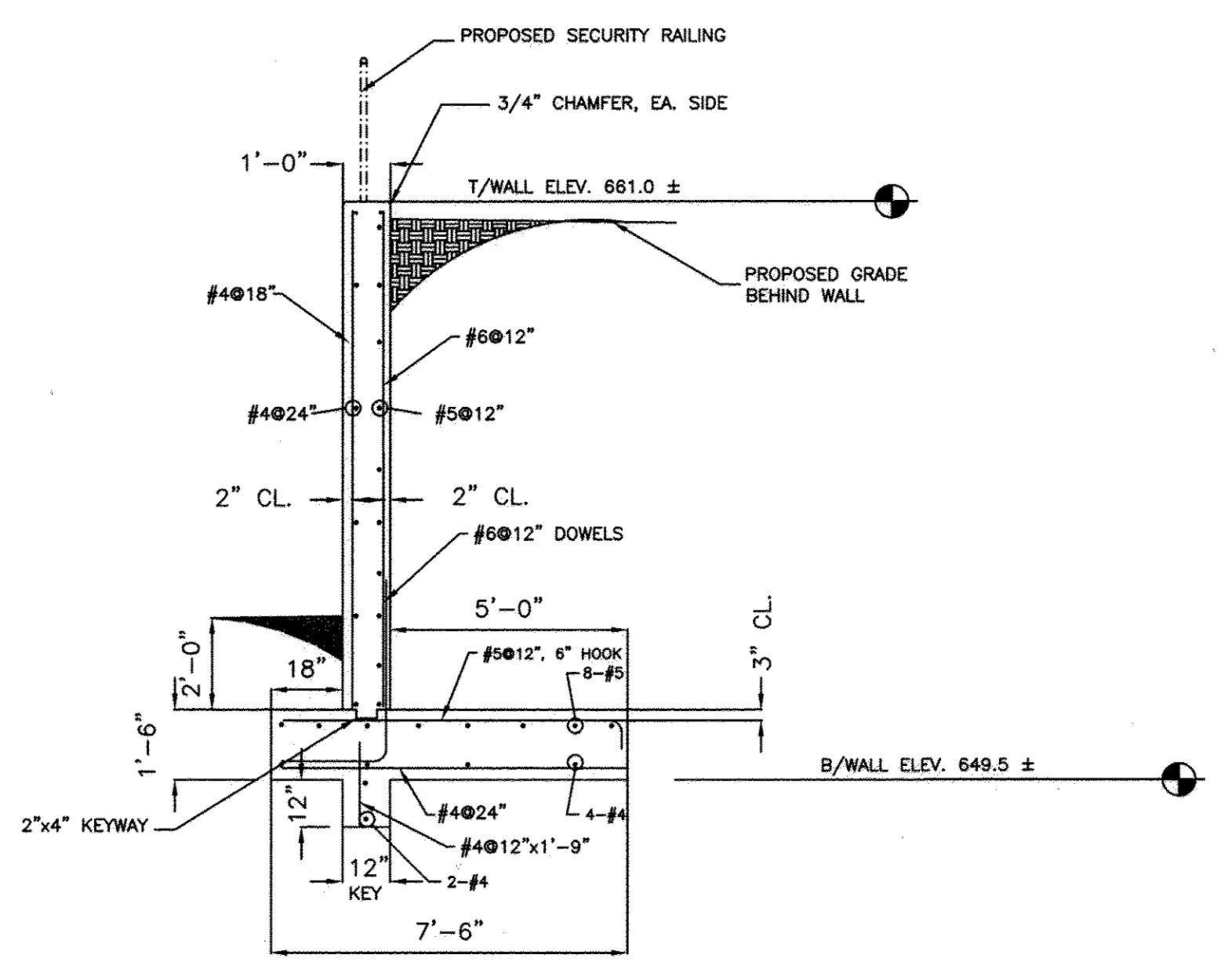




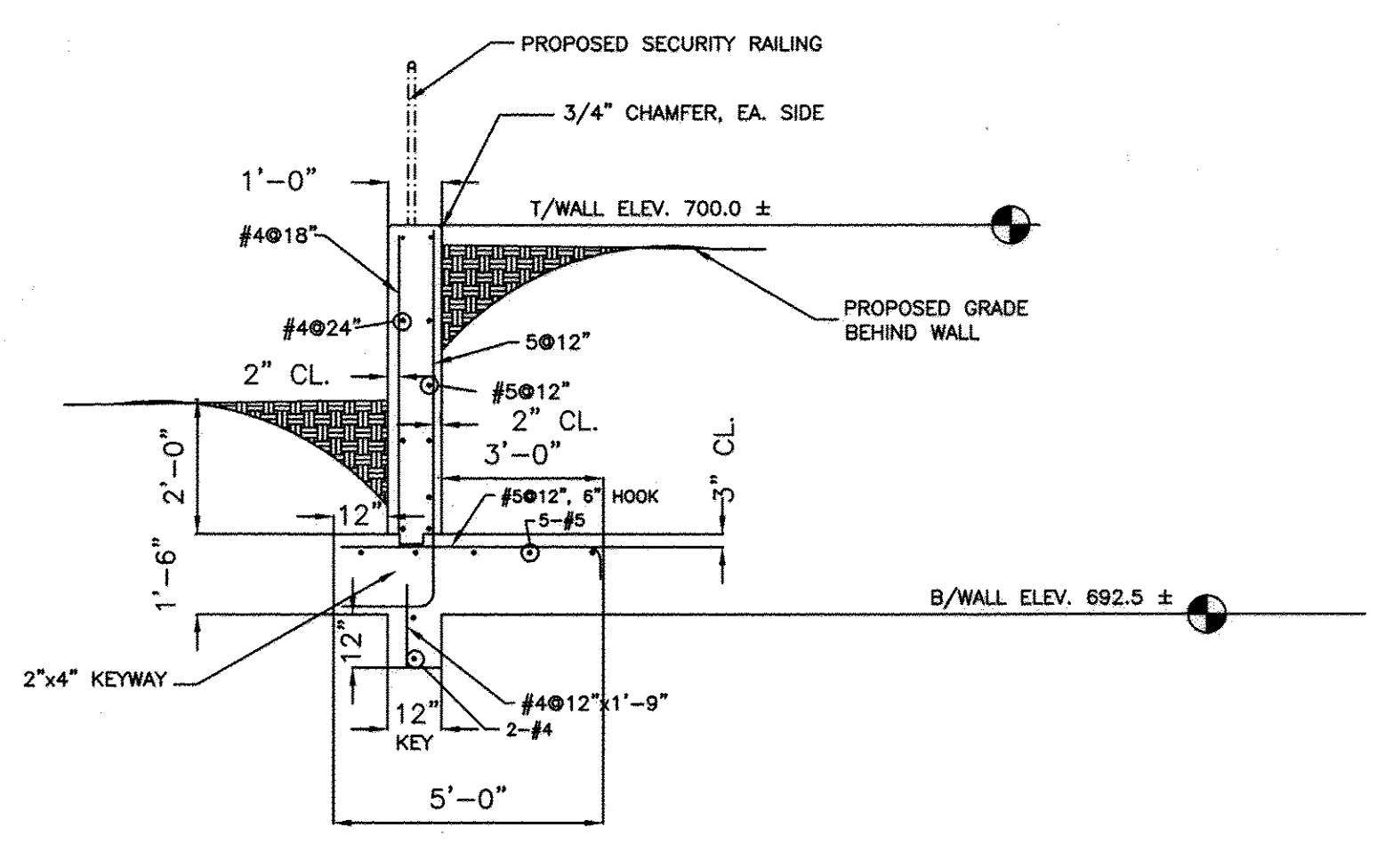
PLAN OF DIVISION STREET NORTH



ELEVATION A DIVISION ST.



SECTION C DIVISION STREET WALL SCALE: 1/2"=1'-0"



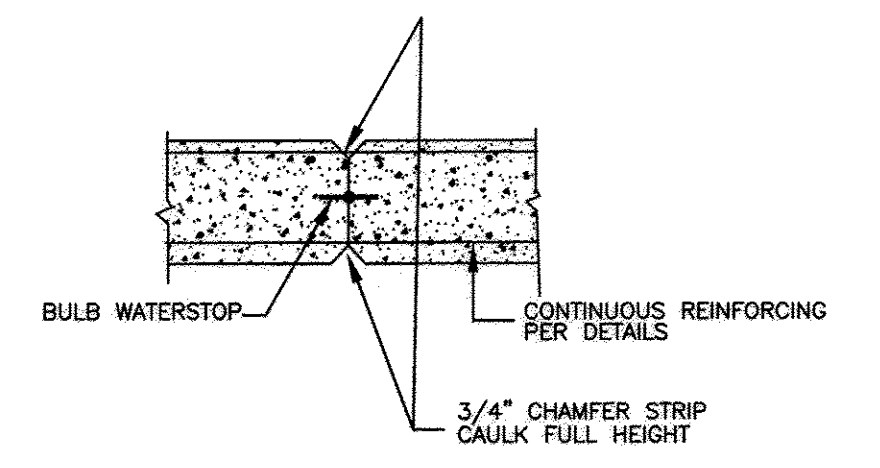
SECTION D FARRELL ROAD WALL SCALE: 1/2"=1'-0"

CONCRETE NOTES

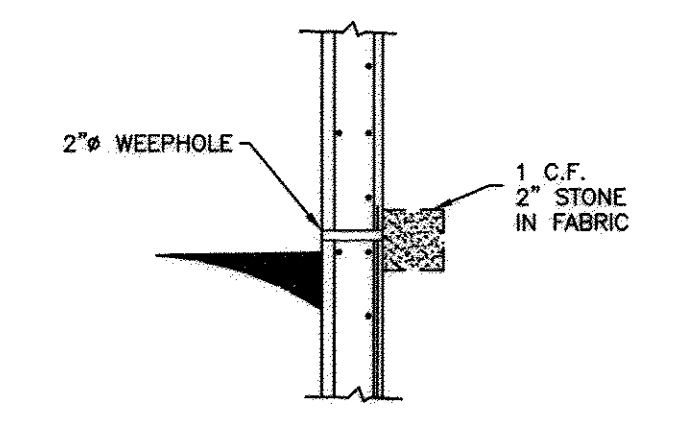
1. ALL CONCRETE WORK, REINFORCING BAR FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318-08 AND WITH THE LATEST EDITION OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
2. ALL CONCRETE SHALL BE NORMAL WEIGHT (150 pcf) AND HAVE 28 DAY COMPRESSIVE STRENGTH  $f'_c = 4,000$  PSI, AIR-ENTRAINED.
3. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING CONCRETE PROTECTION FOR REINFORCING BARS:  
3" CLR. for concrete cast against exposed ground.  
2" CLR. for formed concrete exposed to weather, soil or products.
4. LAP SPLICES NOT SPECIFICALLY CALLED FOR SHALL BE CLASS "A" SPLICES DEFINED IN ACI 318-08.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD TESTING OF ALL CONCRETE.
6. ALL FIELD BENDING OF BARS SHALL BE DONE COLD. HEATING OF BARS WILL NOT BE PERMITTED.
7. ALL EMBEDMENTS INTO CONCRETE FOOTINGS OR SLABS SHALL BE EITHER GALVANIZED OR STAINLESS STEEL.
8. ALL FORMWORK AND CONCRETE PLACEMENT TO BE IN CONFORMANCE WITH ACI 347.
9. REINFORCING STEEL: ASTM A615, GRADE 60.
10. WELDED WIRE FABRIC: ASTM A185

GEOTECHNICAL NOTES

1. GEOTECHNICAL REPORT PREPARED BY SEECO CONSULTANTS, INC. (JOB NO. 11297G) ALLOWABLE SOIL BEARING PRESSURE: 3,000 (PSF), DIVISION ST. ALLOWABLE SOIL BEARING PRESSURE: 2,500 (PSF), FARRELL ROAD

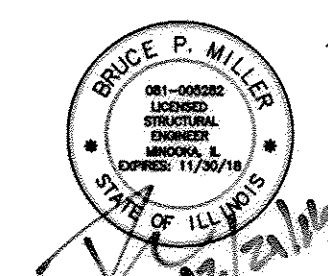


TYPICAL CONSTRUCTION JOINT SPACE AT 20'-0" ON CENTER (MAX.)



TYPICAL WEEP HOLE CONSTRUCTION SPACE AT 6'-0" ON CENTER (MAX.) AT EACH WALL

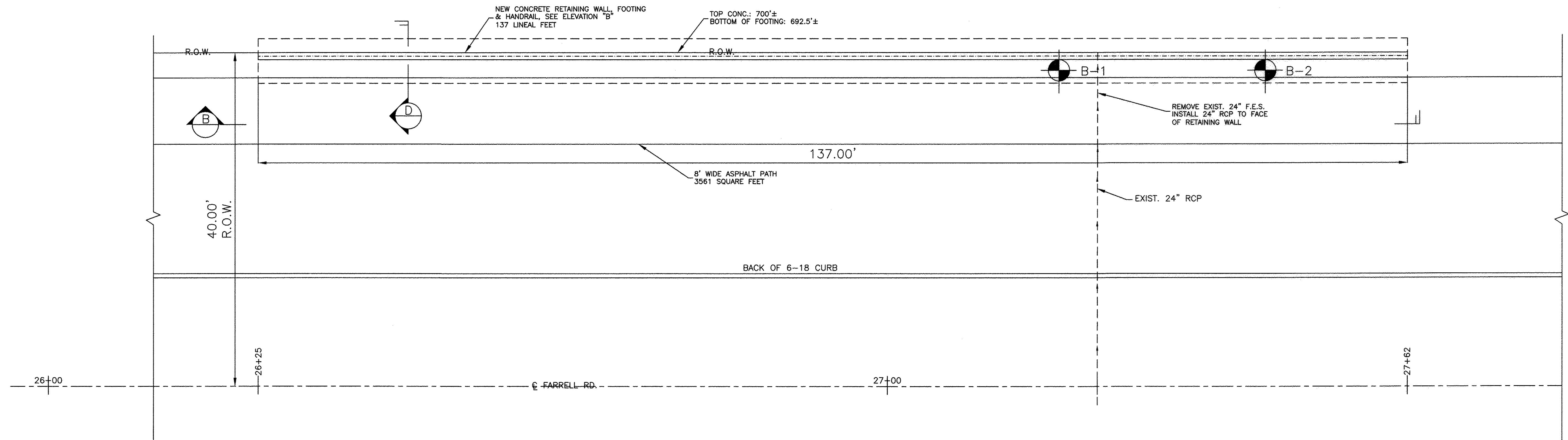
**LEGEND**  
 B-3= APPROXIMATE BORING LOCATION  
 SEECO CONSULTANTS, INC  
 REPORT NO. 1179RG, OCT. 29, 2015




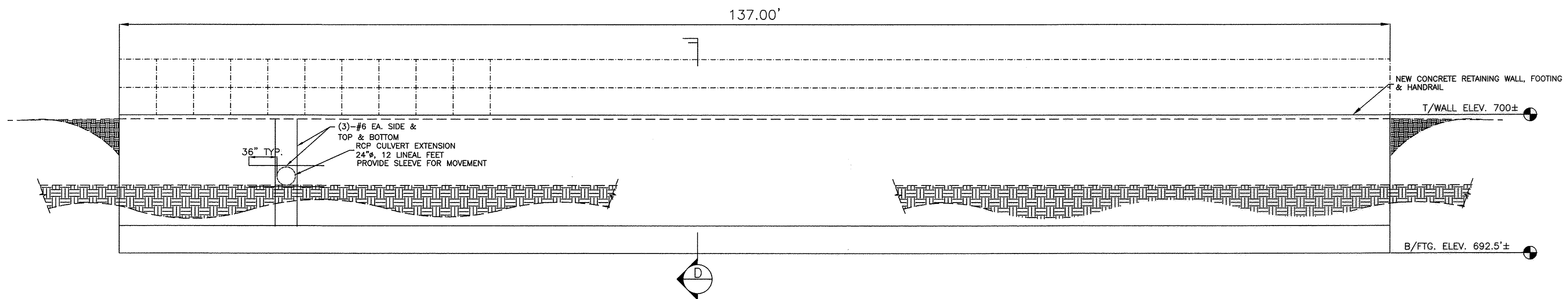
**B.P. MILLER CONSULTANTS, LTD**  
 STRUCTURAL & CIVIL ENGINEERING  
 P.O. BOX 757  
 105 W. MONDAMIN ST.  
 MINOOKA, IL. 60447  
 815/457-9744  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LIC. NO. 184.002264 EXP. 4/30/2017

**RT & A** Ruettiger, Tonelli & Associates, Inc.  
 Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettiger-tonelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**


FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONCRETE RETAINING WALLS DIVISION STREET CROSS SECTIONS / NOTES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	DRAWN ECH @ RTA	REVISED			SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	363 / 291 / 386	10-00072-00-BT	WILL	93	54
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED										
	PLOT DATE =	DATE 7-30-2015	REVISED										
ILLINOIS FEDERAL AID PROJECT													



PLAN OF FARRELL ROAD  NORTH



ELEVATION  FARRELL RD.

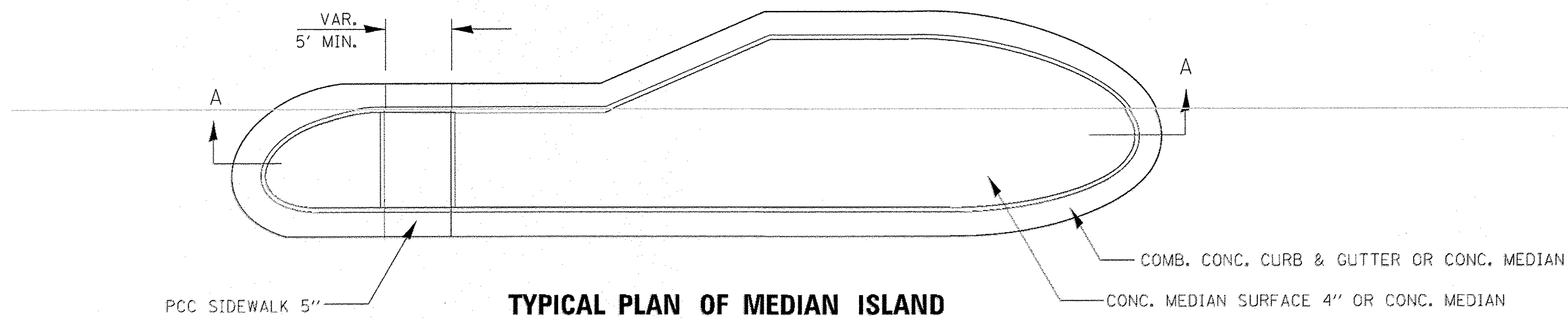
**LEGEND**  
 B-1 = APPROXIMATE BORING LOCATION  
 SEECO CONSULTANTS, INC  
 REPORT NO. 1179RG, OCT. 29, 2015

**B.P. MILLER CONSULTANTS, LTD**  
 STRUCTURAL & CIVIL ENGINEERING  
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 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettigertonnelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: **R.T. & A. Dwg. No.: 310-1076-C2**

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONCRETE RETAINING WALL FARRELL ROAD PLAN AND ELEVATION</b>		F.A.U. RTE. 383 / 291 / 386	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 55	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FEDERAL AID PROJECT				
	PLOT DATE =	CHECKED JPH @ RTA	REVISED									
		DATE 7-30-2015	REVISED									





**TYPICAL PLAN OF MEDIAN ISLAND**

SEE STANDARDS 606001, 606301, 424031, AND PLAN SHEETS FOR STATION, OFFSETS, RADII, DIMENSIONS, AND DETAILS NOT SHOWN.

THE SIDEWALK SHOULD DRAIN TO THE LOW SIDE OF THE ISLAND. IF NECESSARY THE SIDEWALK SHALL BE SLOPED TO DRAIN AT A MAXIMUM 2% GRADE.

SEE THE PLAN SHEETS FOR THE TYPE OF CURB & GUTTER TO BE USED ON ISLANDS.

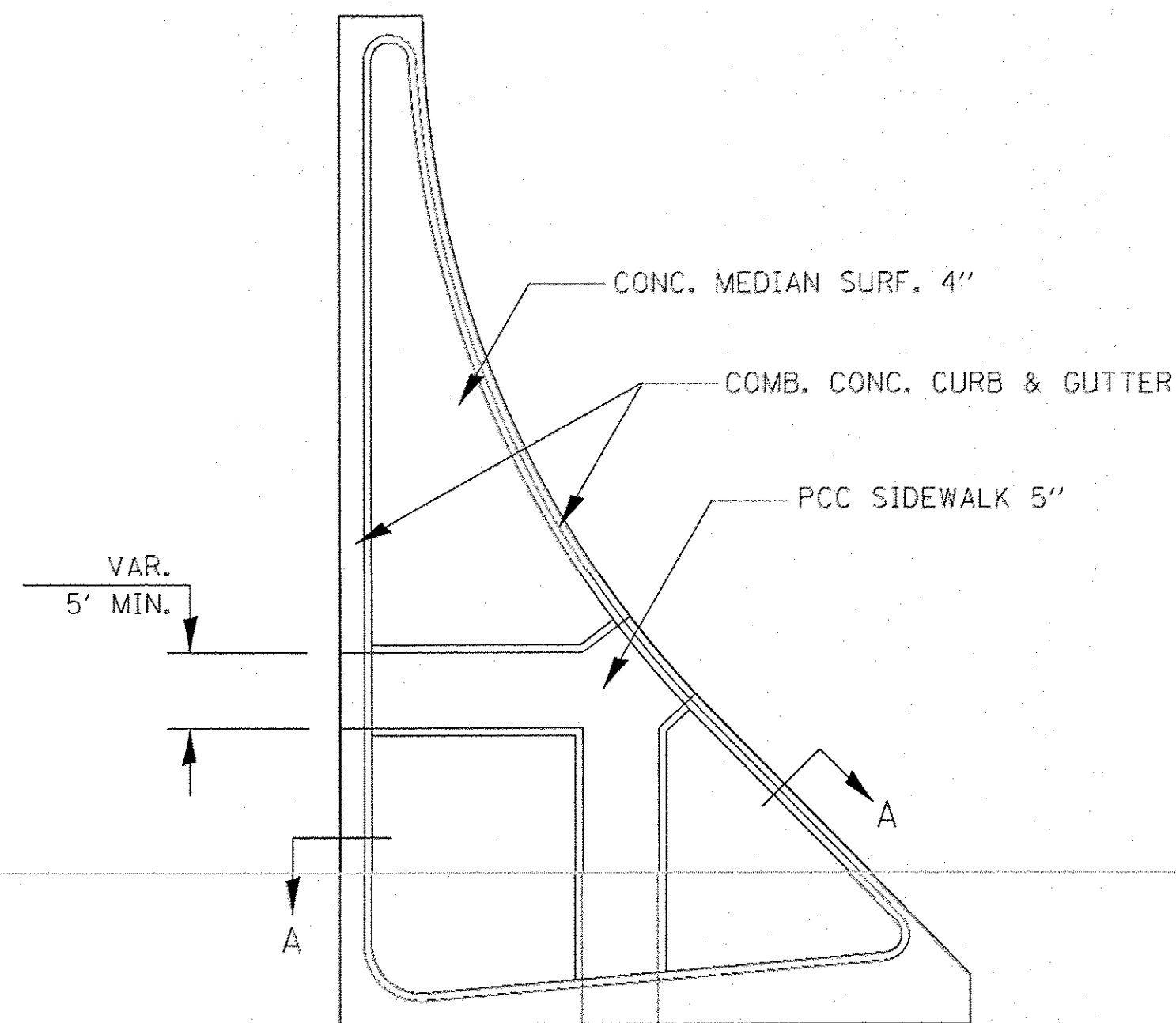
THE SIDEWALK SHOULD NOT BE CLOSER THAN 3' FROM THE CORNER OF THE ISLAND.

KEYED LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS.

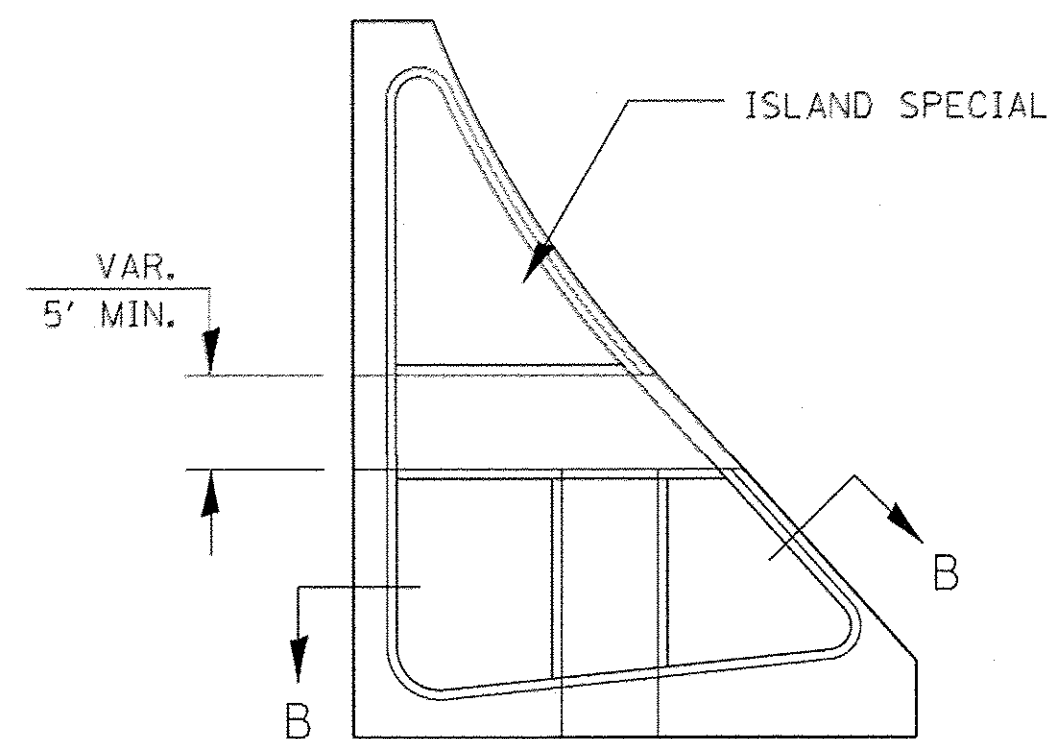
MEDIANS AND LARGE ISLANDS SHALL CONSIST OF PCC SIDEWALK 5", CONCRETE MEDIANS SURFACE 4", CONCRETE CURB, AND COMBINATION CONCRETE CURB & GUTTER, TYPE M OR B OR THE SIZE SPECIFIED. MEDIAN ISLAND CAN ALSO BE SOLID CONCRETE MEDIANS.

LOCATIONS, LAYOUTS, AND WIDTHS OF THE FLUSH SIDEWALK AREA, SHALL BE DETERMINED BY THE DESIGNER AND SHOWN ON THE PLANS.

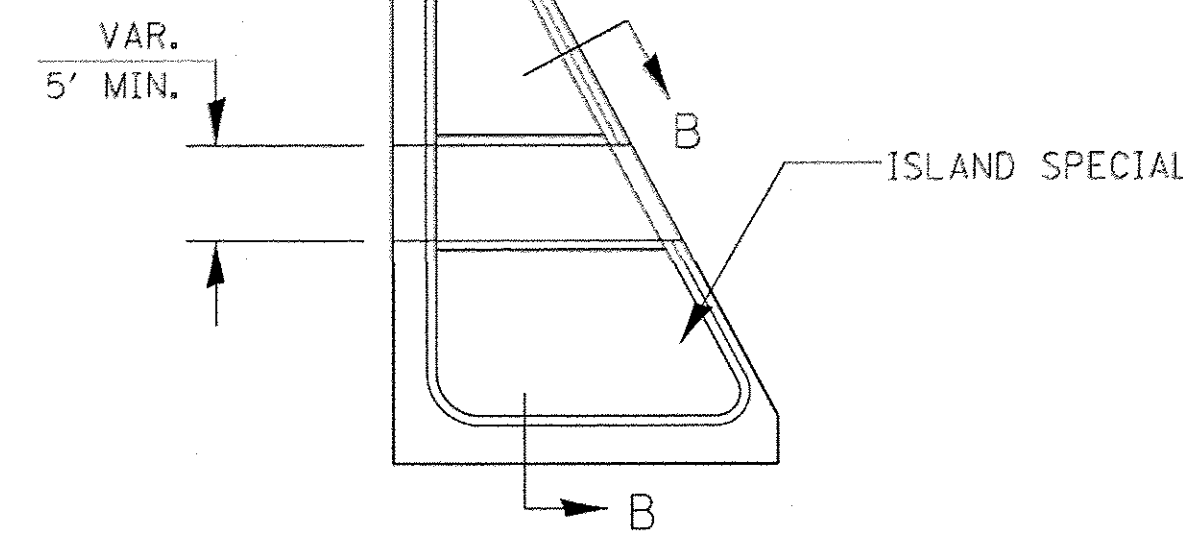
THE INTERMEDIATE AND SMALL ISLANDS WILL BE MEASURED FOR PAYMENT FROM E.O.P. TO E.O.P. USING EITHER OPTION 1 OR OPTION 2, AS DIRECTED BY THE ENGINEER, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. FT. FOR CONCRETE MEDIAN (SPECIAL), WHICH SHALL INCLUDE THE CURB, COMBINATION CURB & GUTTER, SIDEWALK, AGGREGATE FILL, CONCRETE MEDIAN SURFACE, AND SOLID CONCRETE MEDIAN.



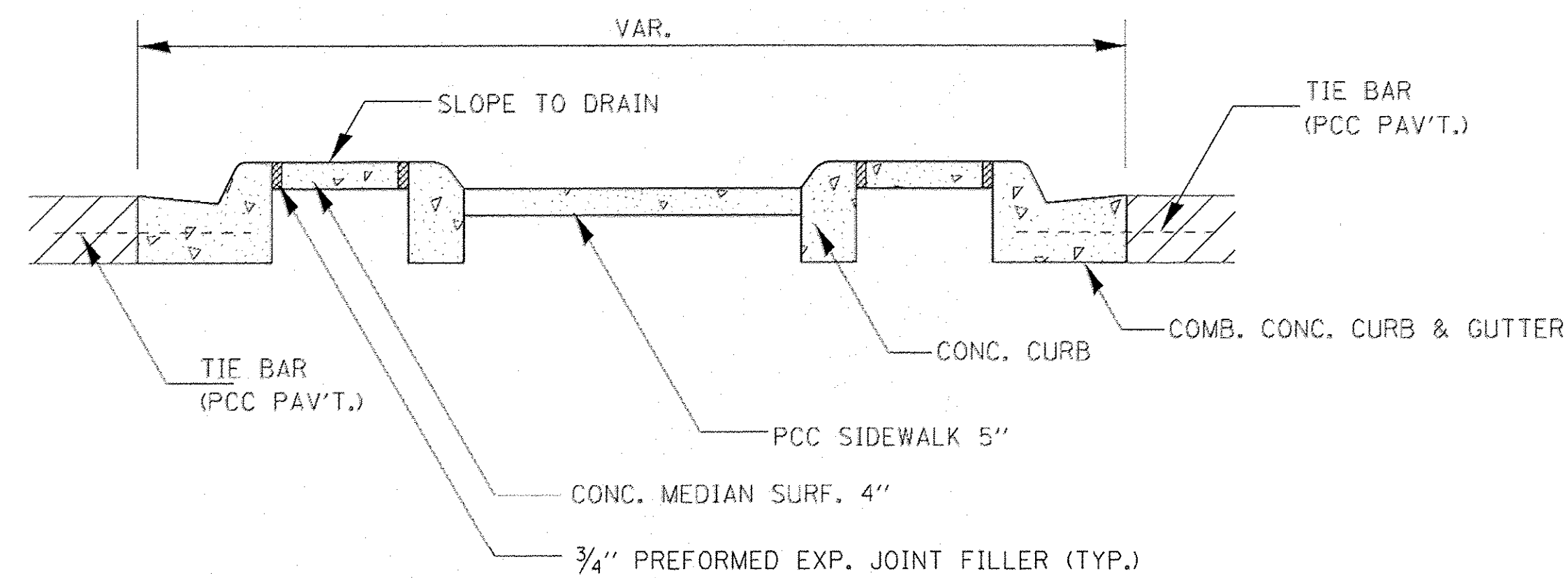
**LARGE ISLAND**  
(FREE FLOW DESIGN)



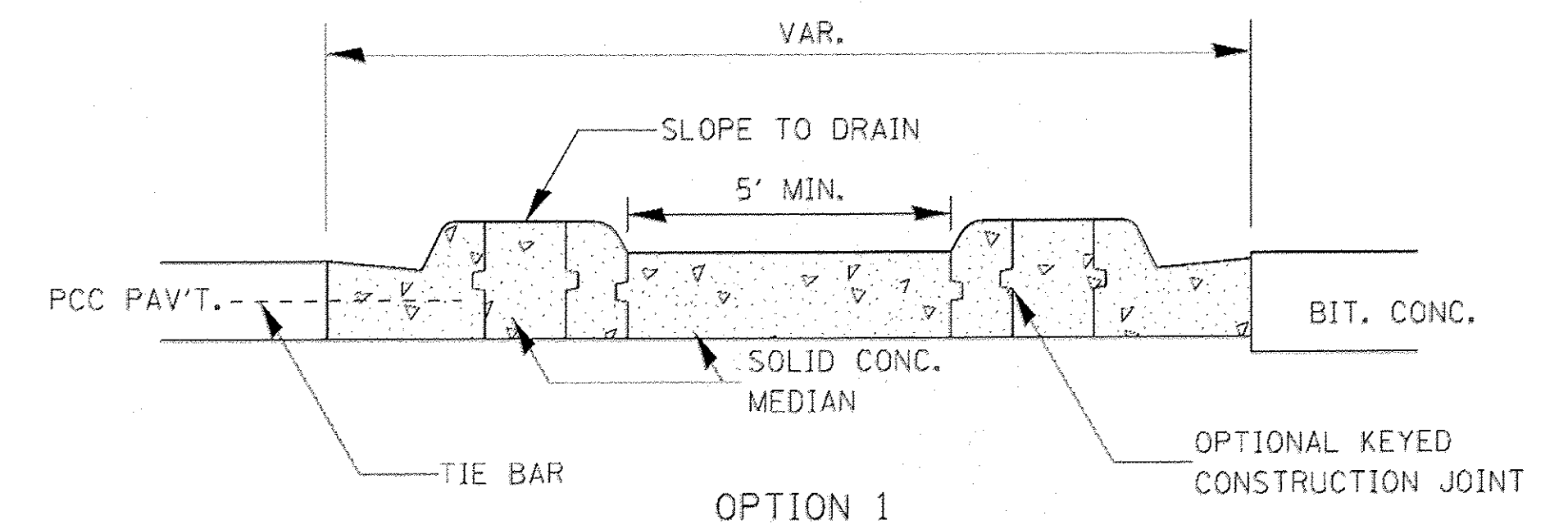
**INTERMEDIATE ISLAND**  
(FOR RIGHT TURN LANE DESIGN)



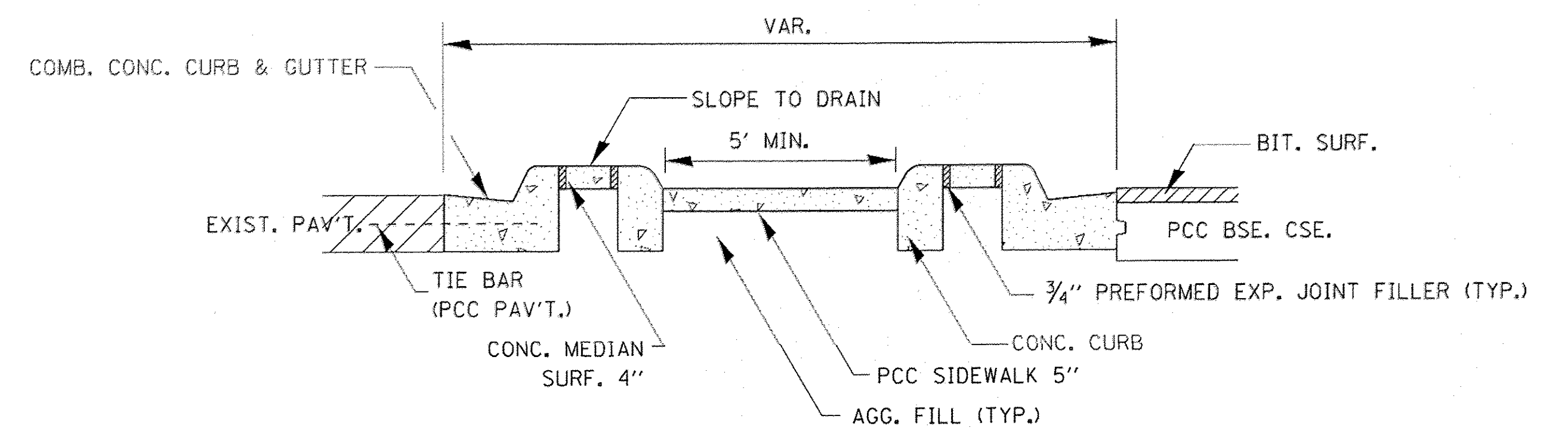
**SMALL ISLAND**  
(FOR TYPICAL DESIGN)



**SECTION A-A**



OPTION 1



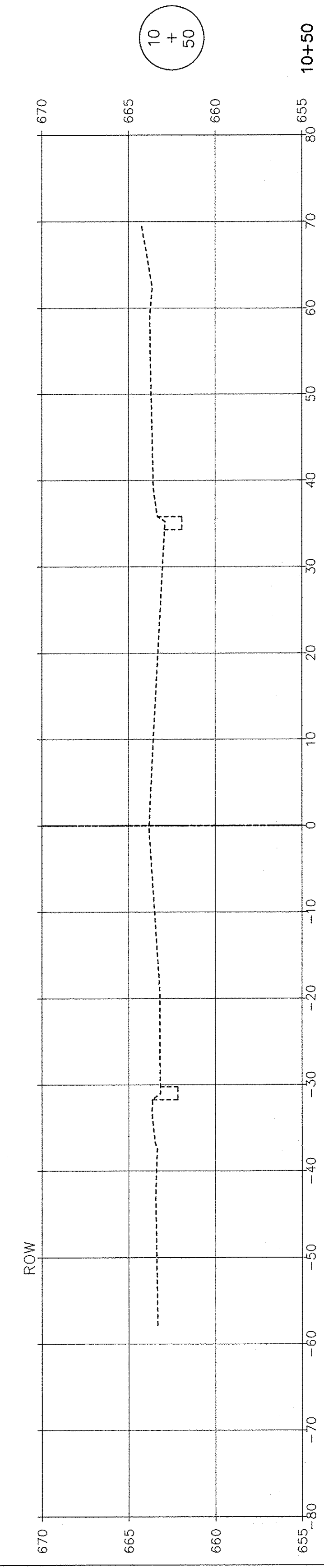
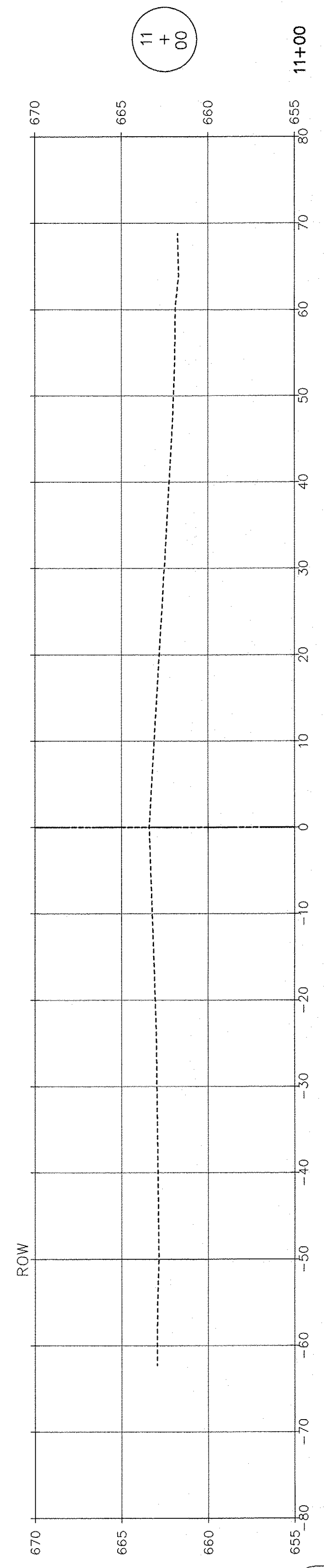
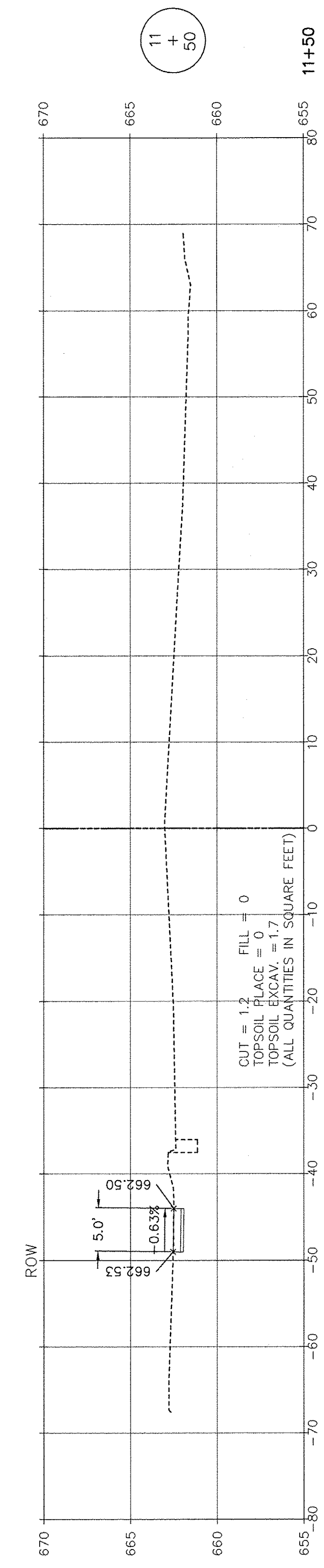
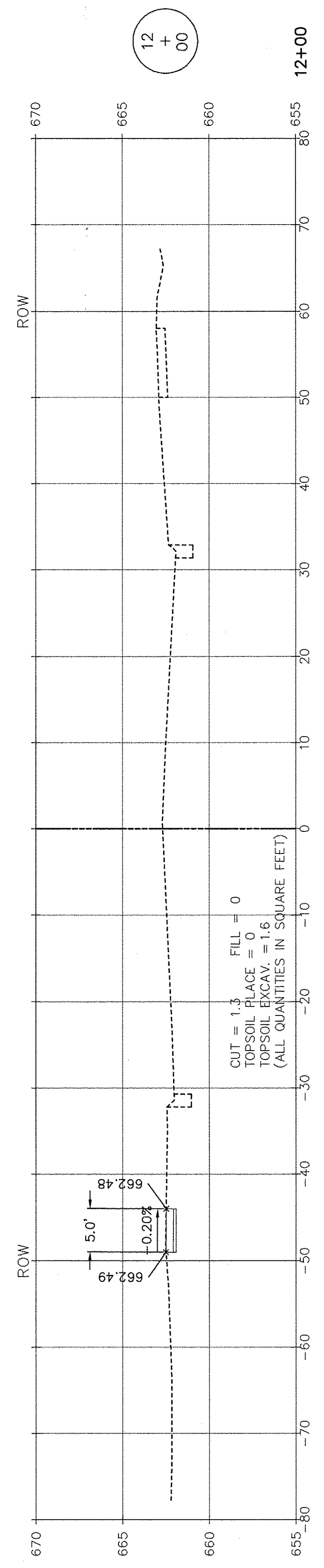
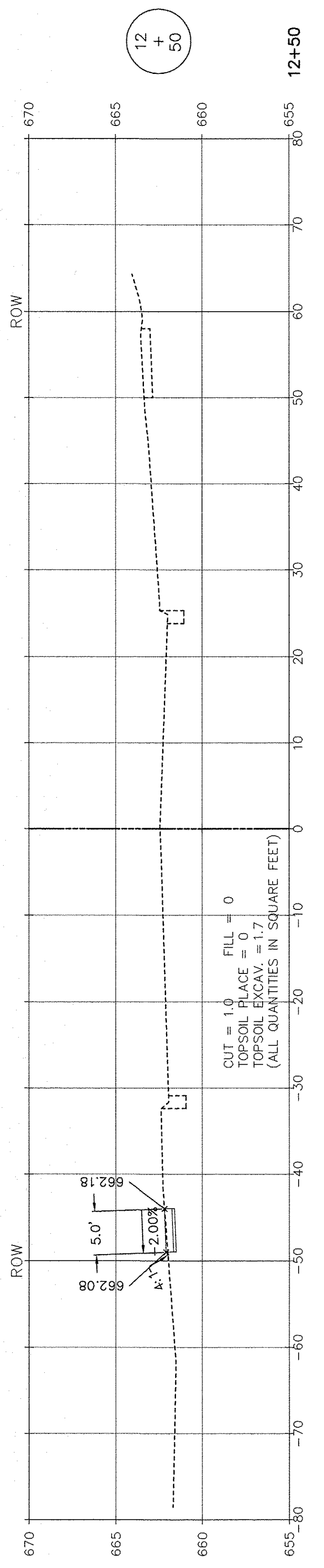
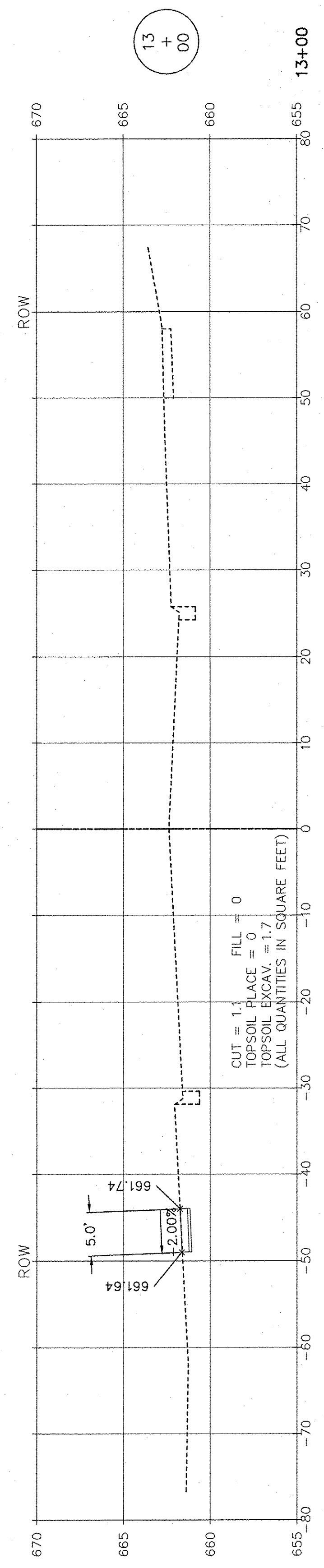
OPTION 2

**SECTION B-B**

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		363 / 291 / 366	10-0072-00-BT	WILL	93	56			
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: N.T.S.		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FEDERAL AID PROJECT			
		DATE 7-30-2015	REVISED		CONTRACT NO. 61D48							







SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

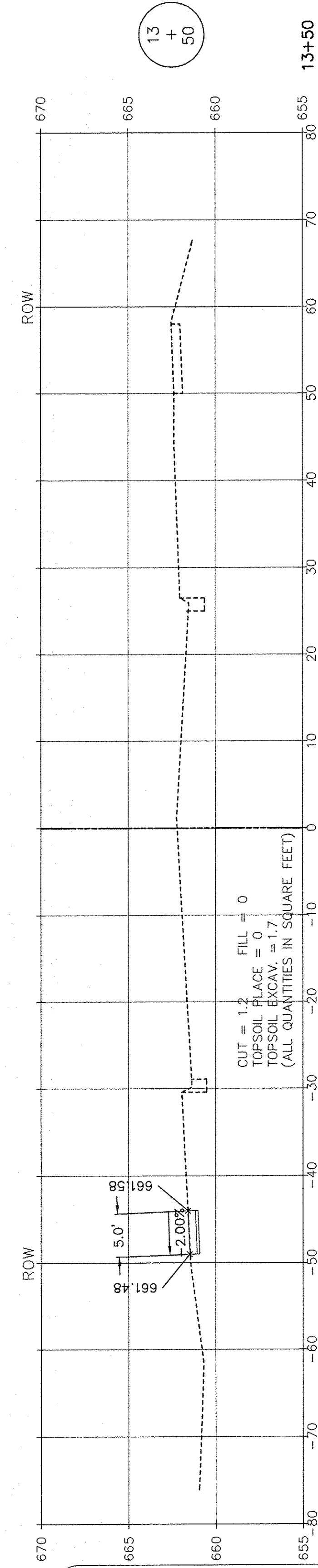
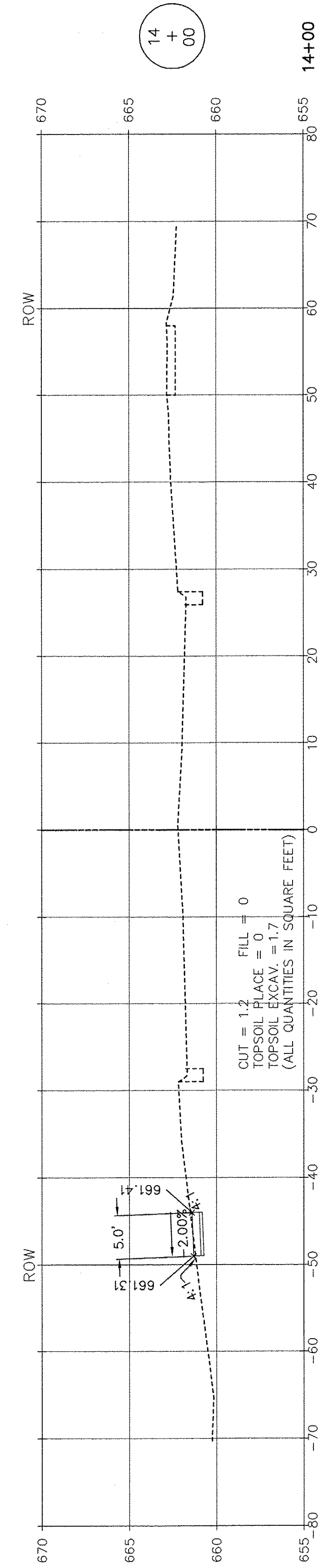
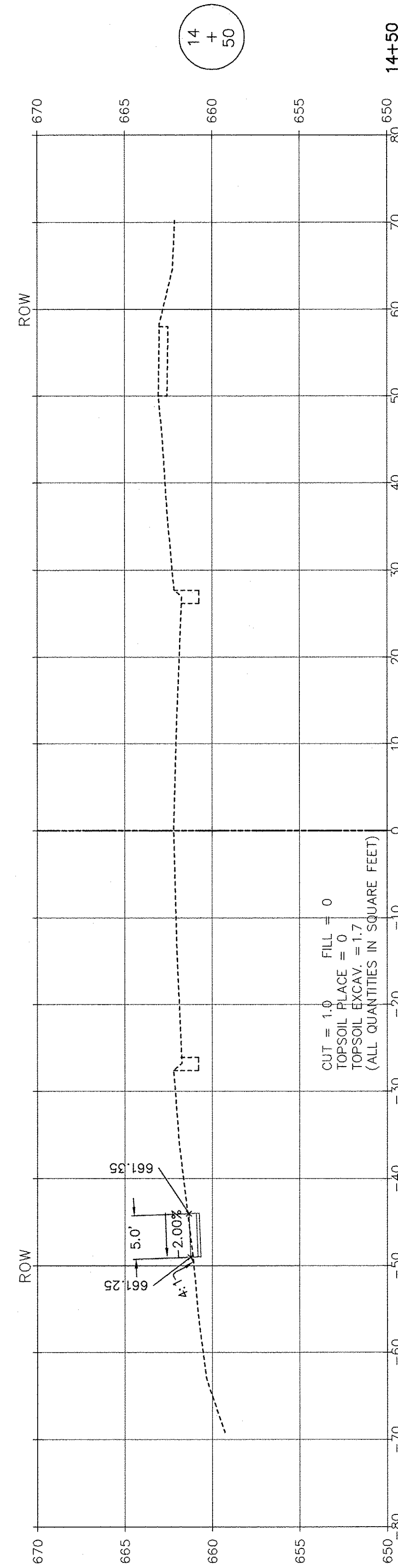
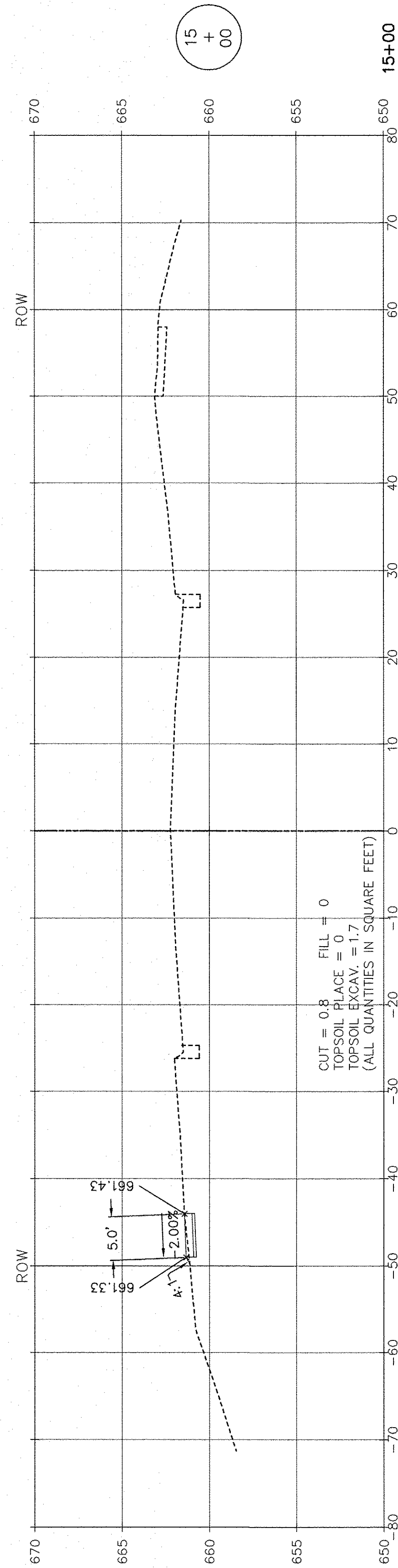
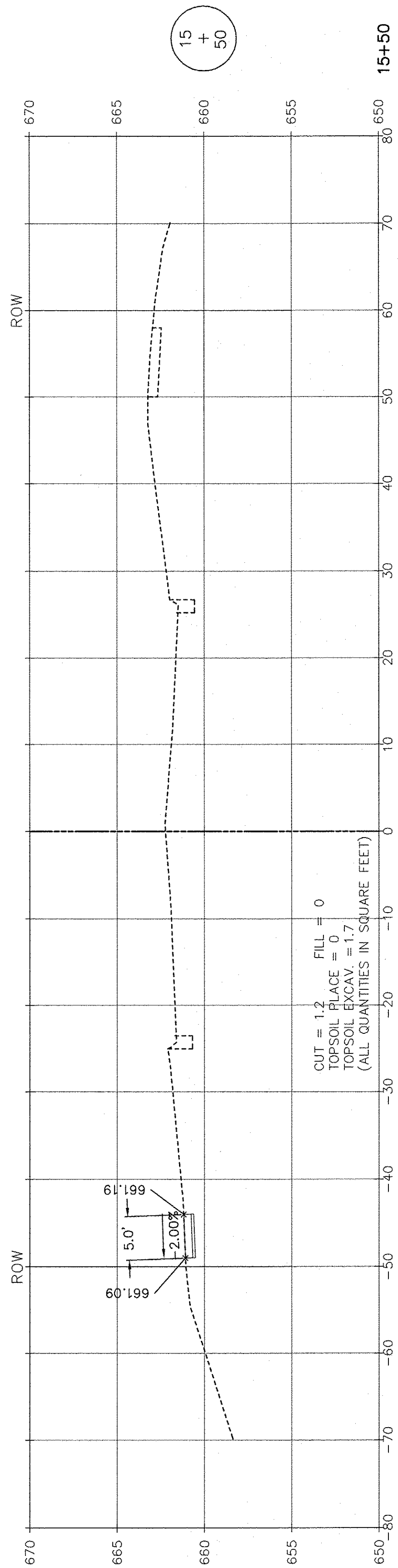
**RT & A** Ruettiger, Tonelli & Associates, Inc.  
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 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
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 website: www.ruettigertonnelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016 R.T. & A. Dwg. No.: 310-1076-C2  
 FIELD BOOK & PAGE:

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
SCALE: AS NOTED SHEET NO. 1 OF 9 SHEETS STA. 10+50 TO STA. 13+00

F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 58
ILLINOIS FEDERAL AID PROJECT				



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

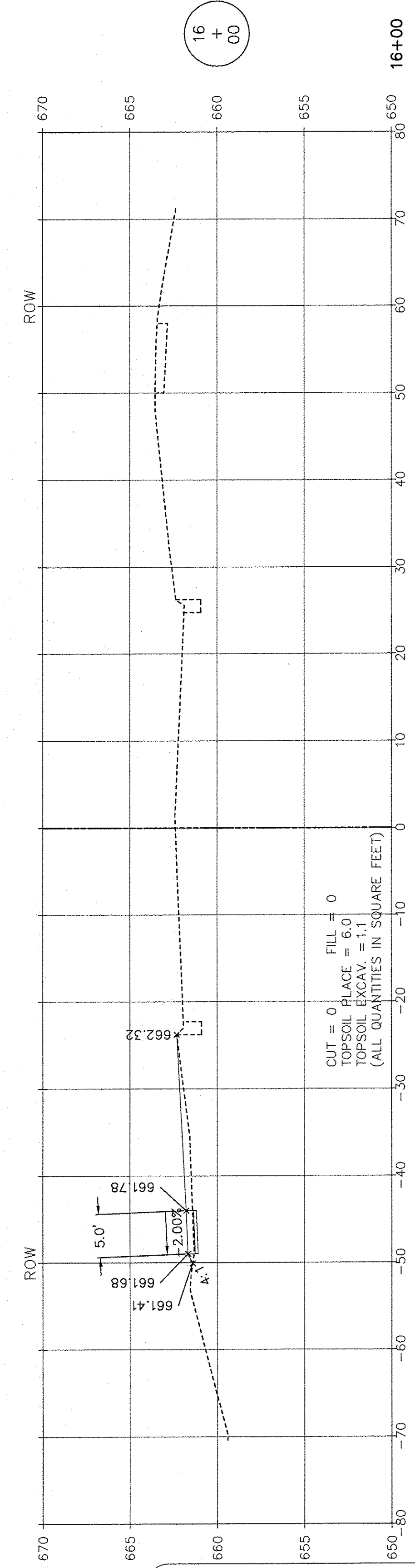
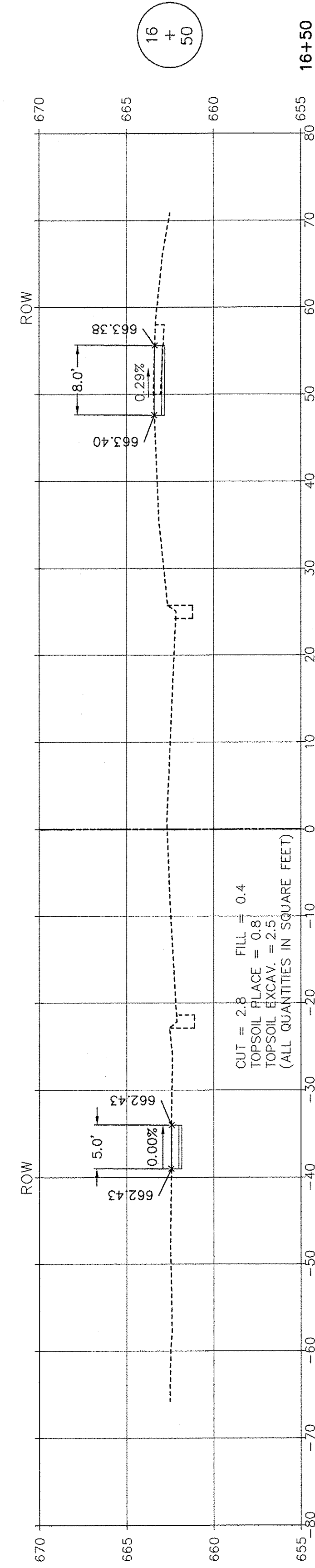
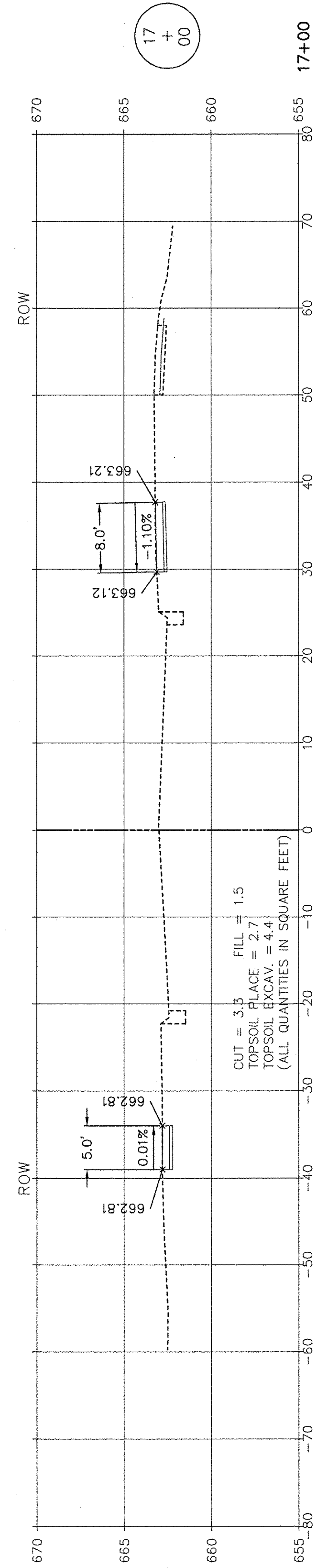
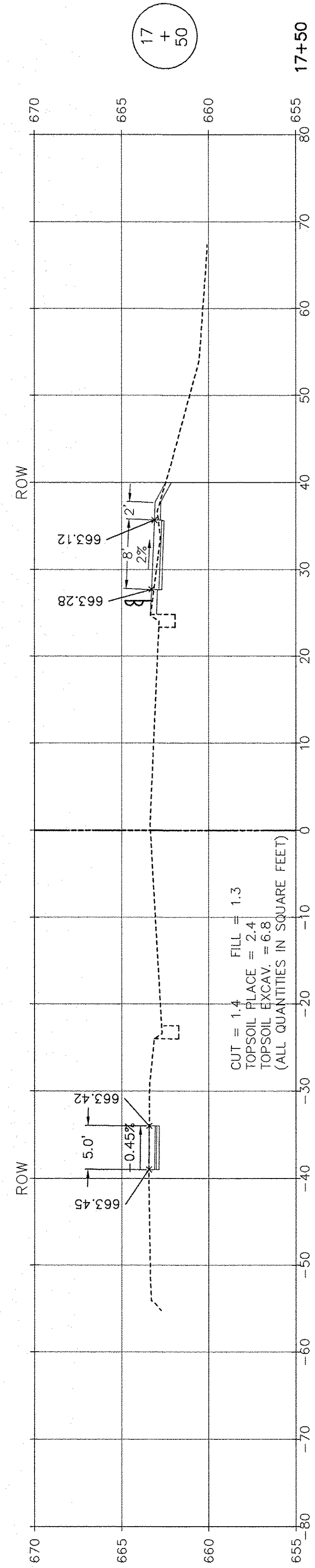
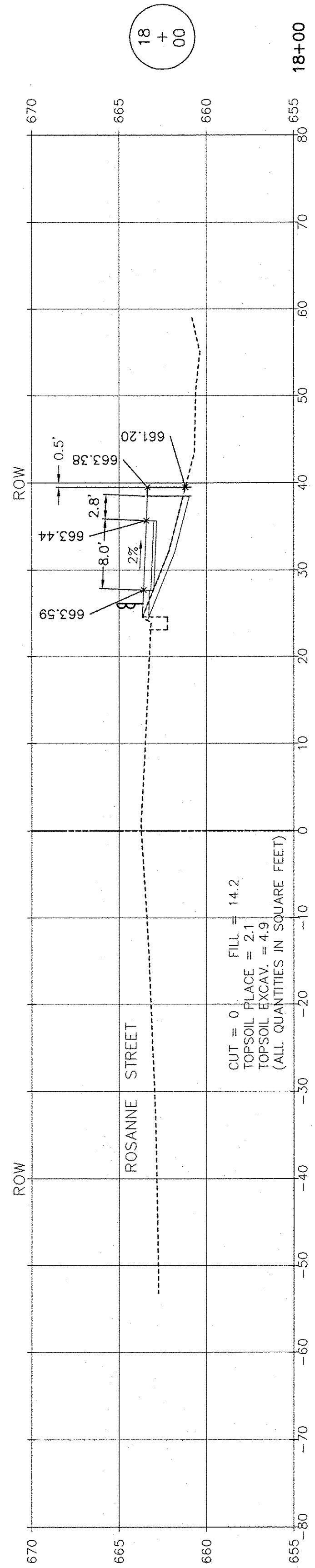
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		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		
SCALE: AS NOTED	SHEET NO. 2 OF 9 SHEETS	STA. 13+50 TO STA. 15+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	59
			CONTRACT NO. 61D48	
ILLINOIS FEDERAL AID PROJECT				





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

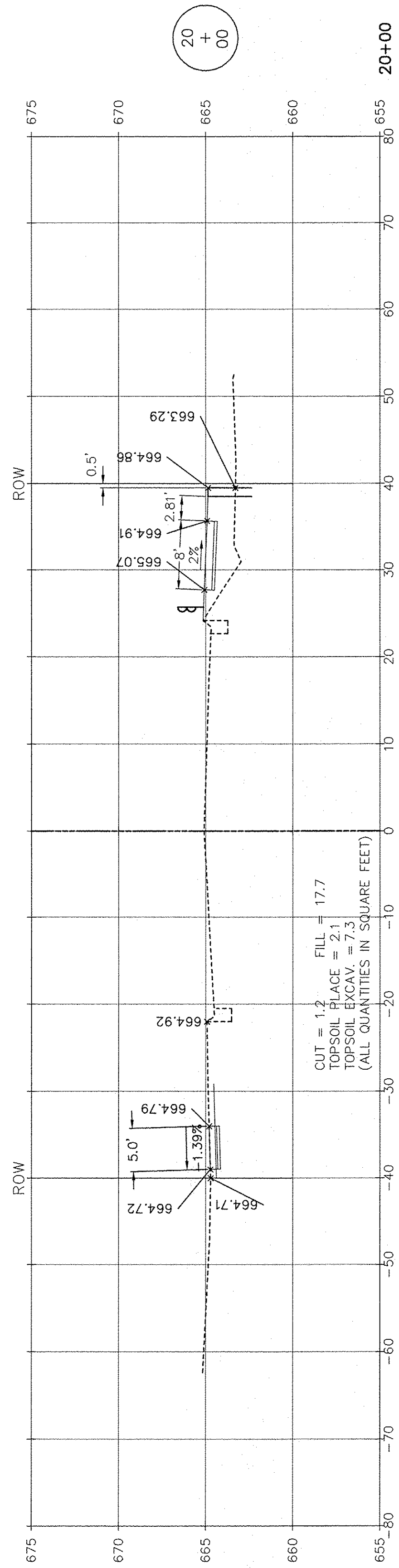
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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED
	PLOT DATE =	CHECKED JPH @ RTA	REVISED
		DATE 7-30-2015	REVISED

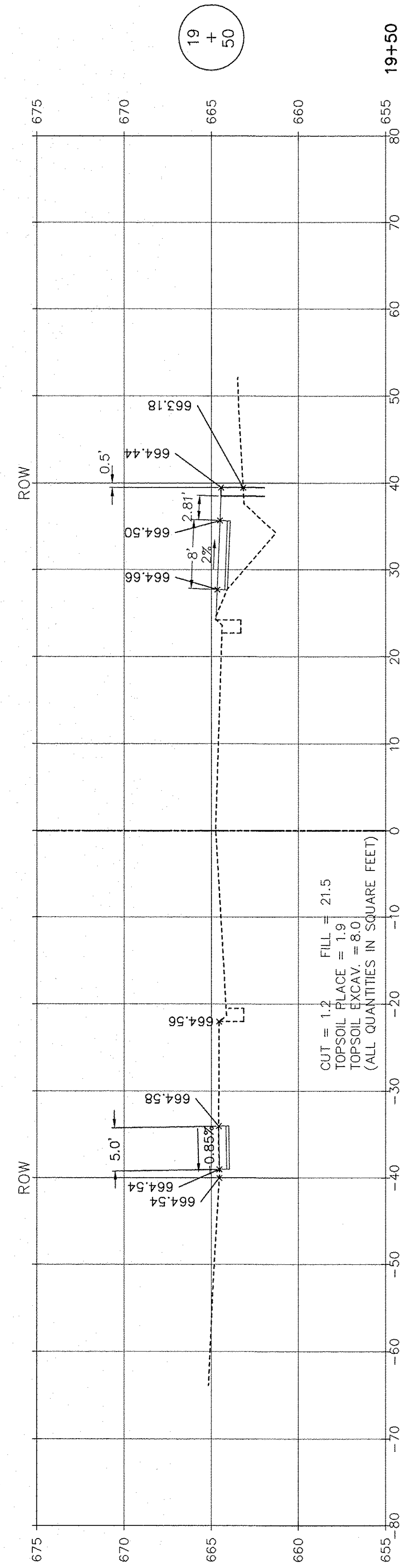
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
SCALE: AS NOTED SHEET NO. 3 OF 9 SHEETS STA. 16+00 TO STA. 18+00

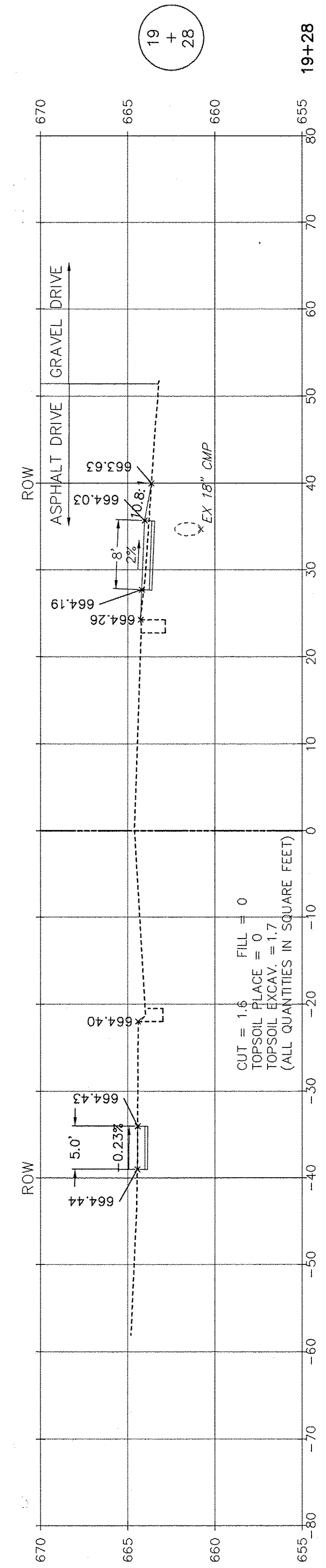
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	60
CONTRACT NO. 61D48			ILLINOIS FEDERAL AID PROJECT	



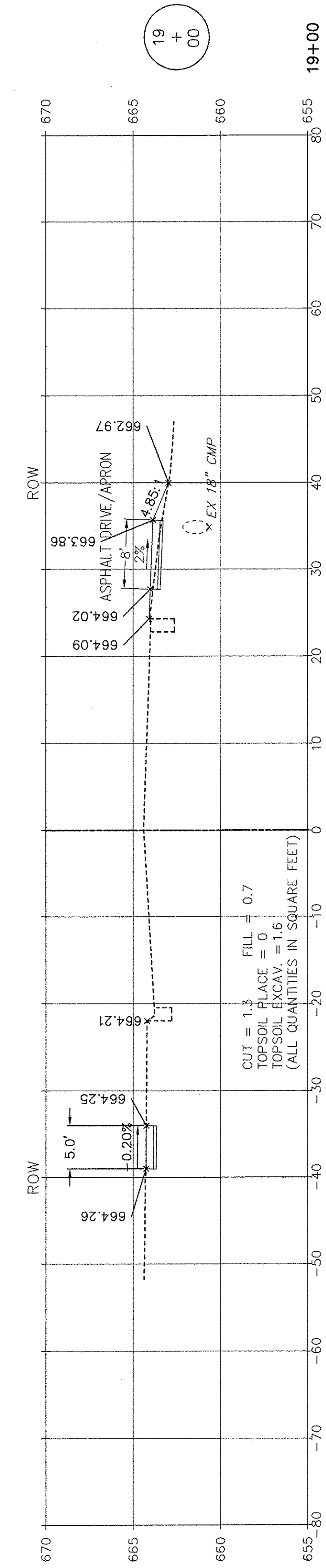
20 + 00



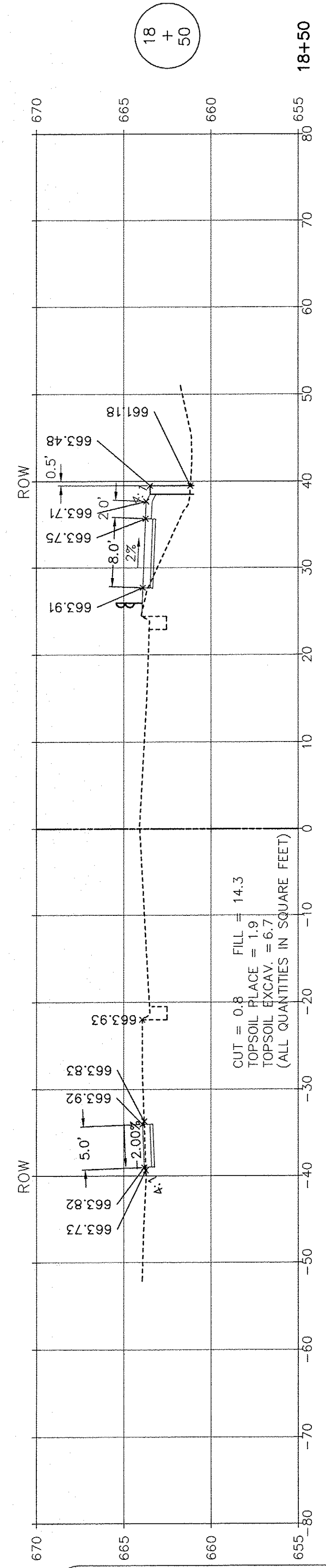
19 + 50



19 + 28



19 + 00



18 + 50

SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

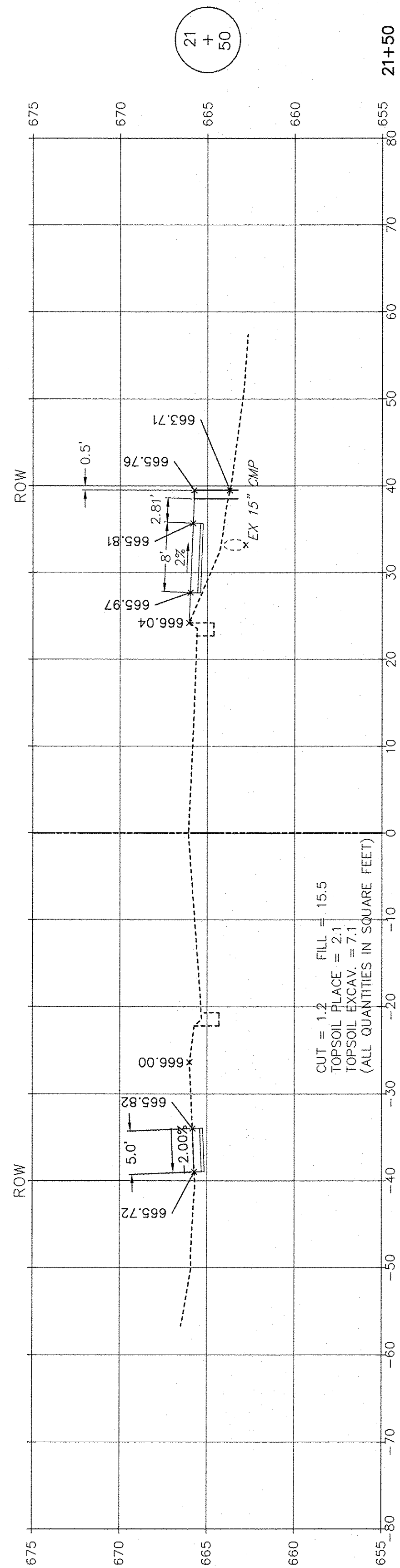
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

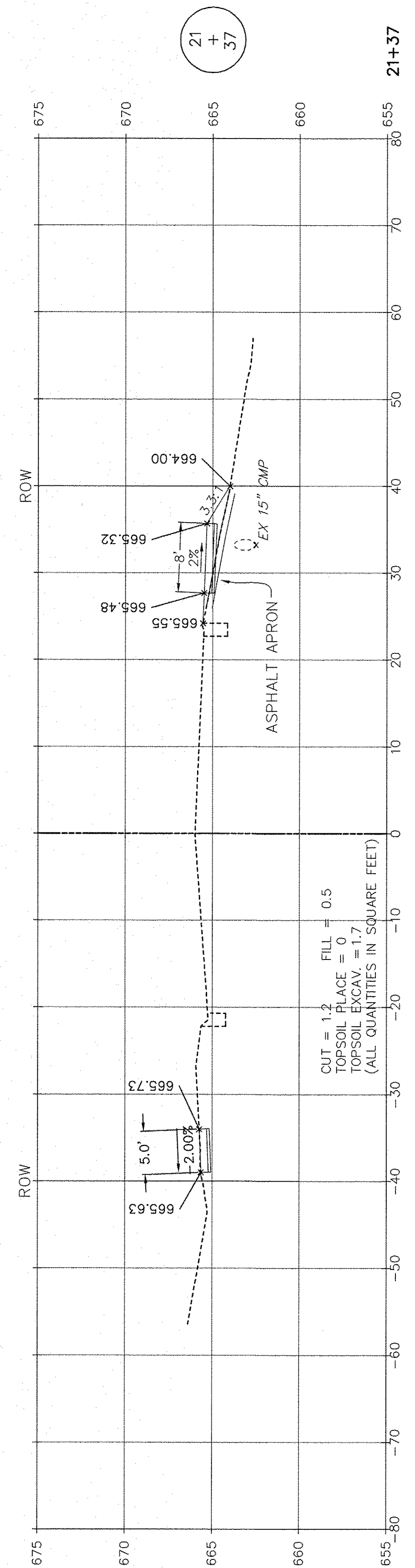
SCALE: AS NOTED SHEET NO. 4 OF 9 SHEETS STA. 18+50 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	61
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	

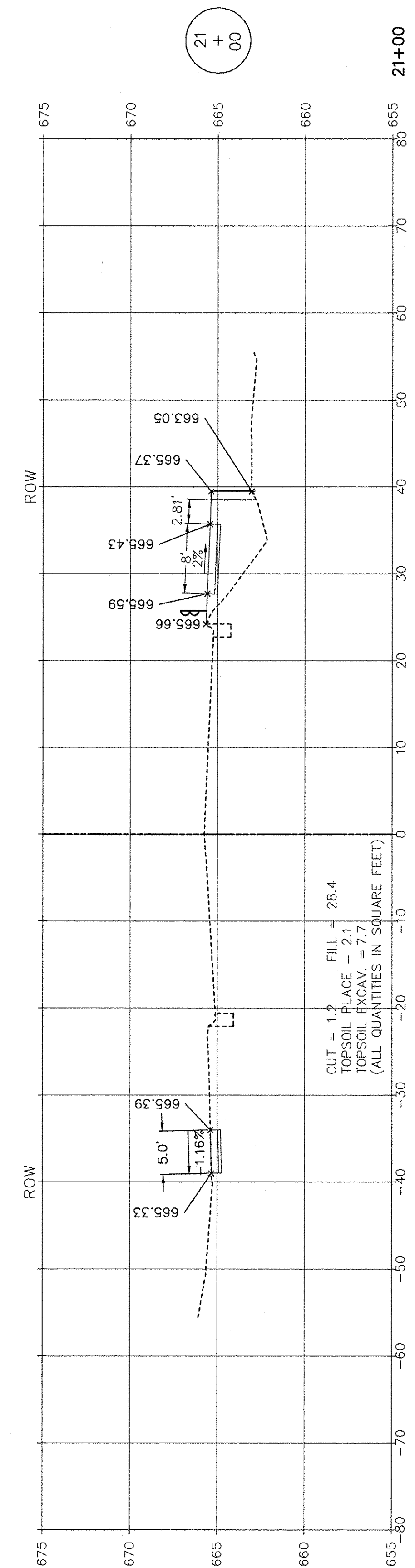




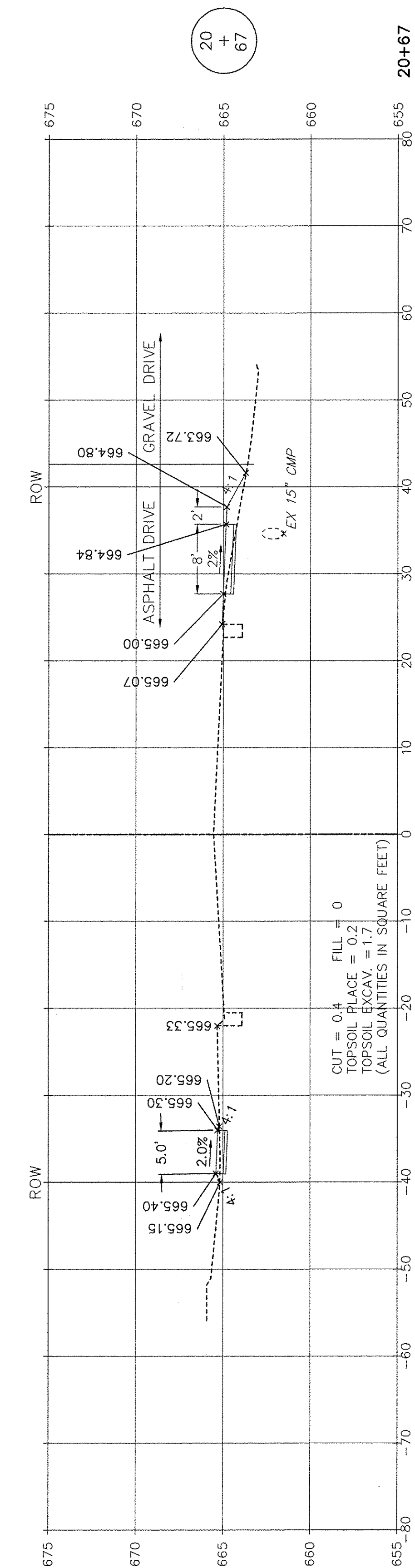
CUT = 1.2  
TOPSOIL PLACE = 2.1  
TOPSOIL EXCAV. = 7.1  
FILL = 15.5  
(ALL QUANTITIES IN SQUARE FEET)



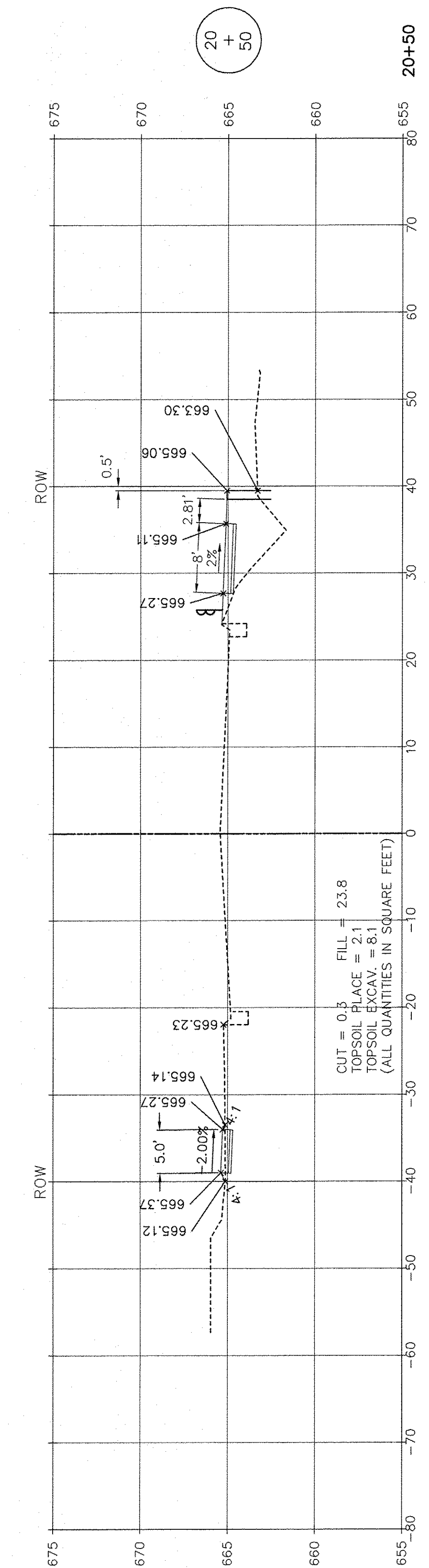
CUT = 1.2  
TOPSOIL PLACE = 0  
TOPSOIL EXCAV. = 1.7  
FILL = 0.5  
(ALL QUANTITIES IN SQUARE FEET)



CUT = 1.2  
TOPSOIL PLACE = 2.1  
TOPSOIL EXCAV. = 7.7  
FILL = 28.4  
(ALL QUANTITIES IN SQUARE FEET)



CUT = 0.4  
TOPSOIL PLACE = 0.2  
TOPSOIL EXCAV. = 1.7  
FILL = 0  
(ALL QUANTITIES IN SQUARE FEET)



CUT = 0.3  
TOPSOIL PLACE = 2.1  
TOPSOIL EXCAV. = 8.1  
FILL = 23.8  
(ALL QUANTITIES IN SQUARE FEET)

SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

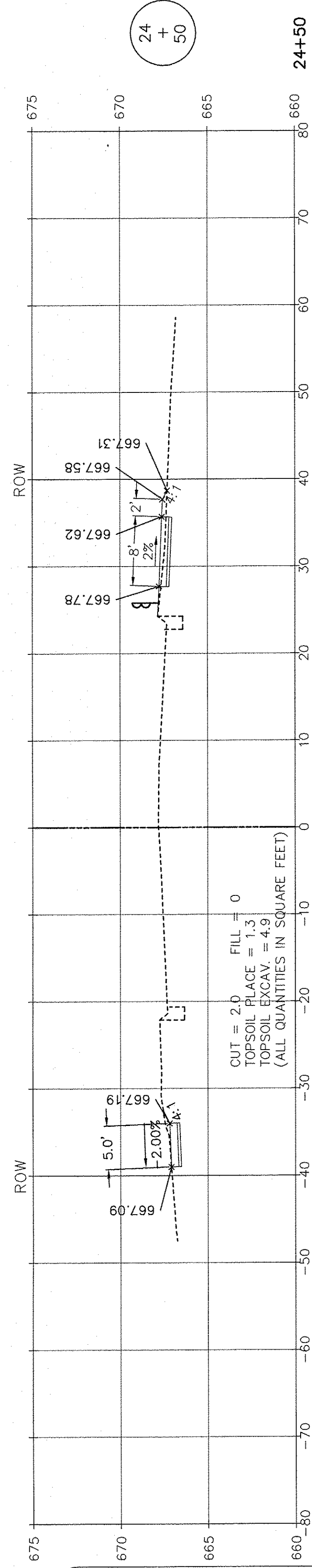
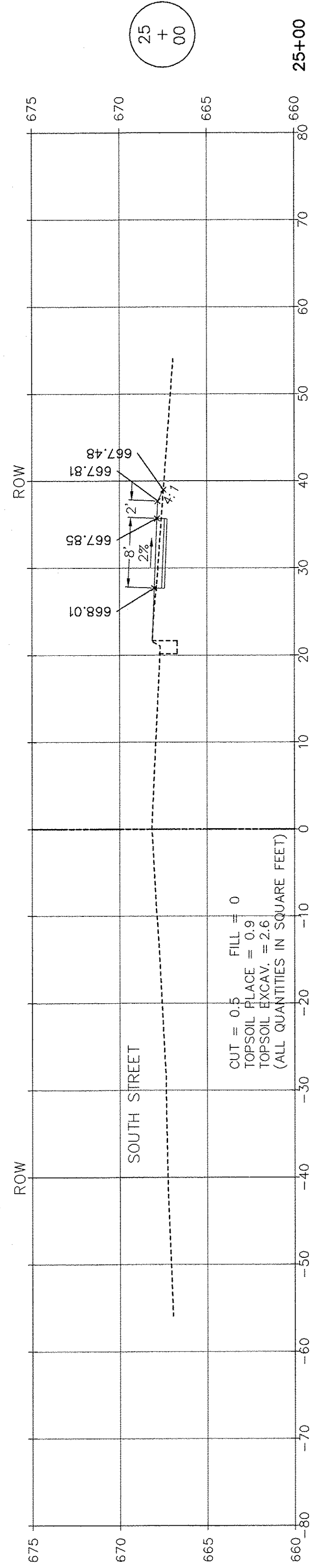
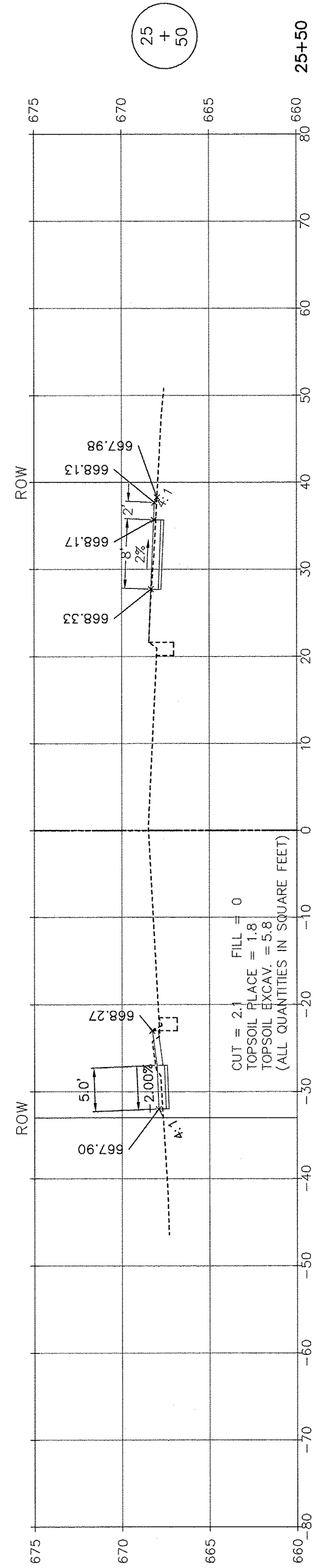
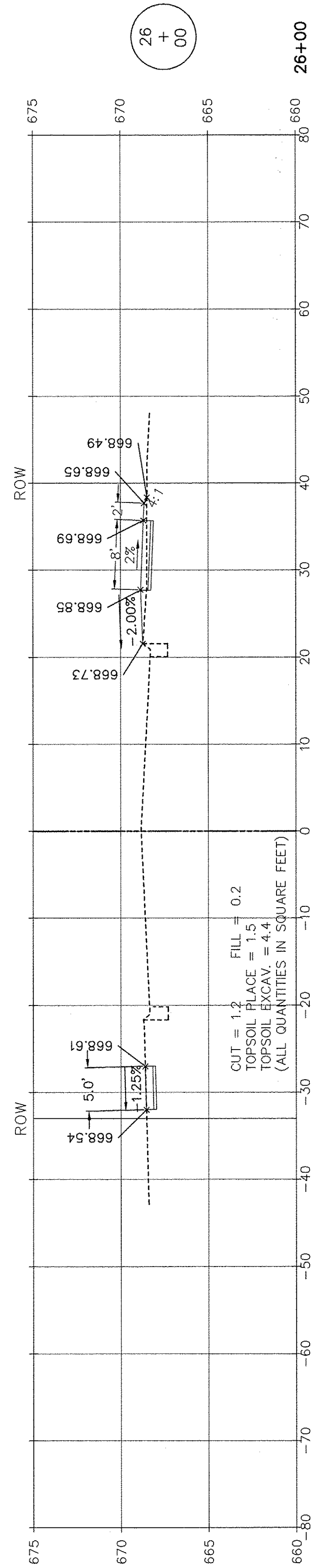
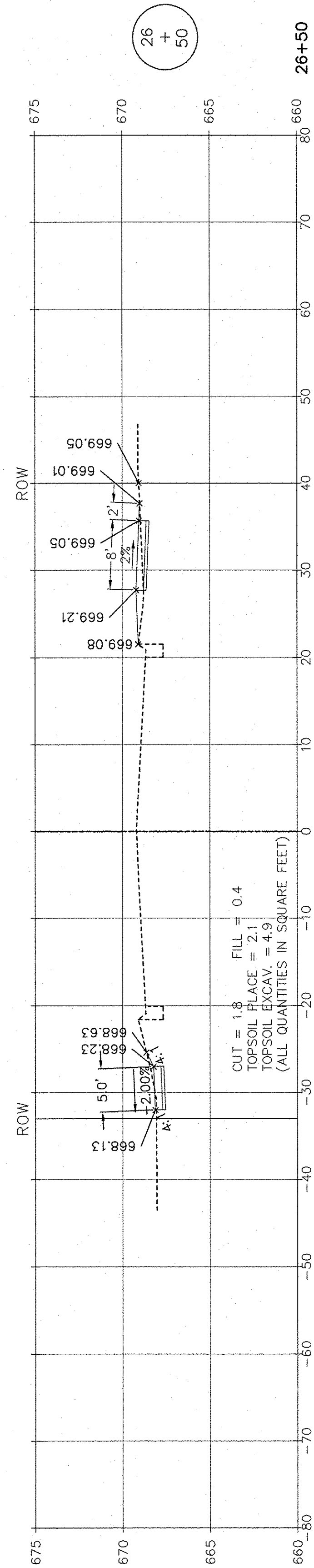
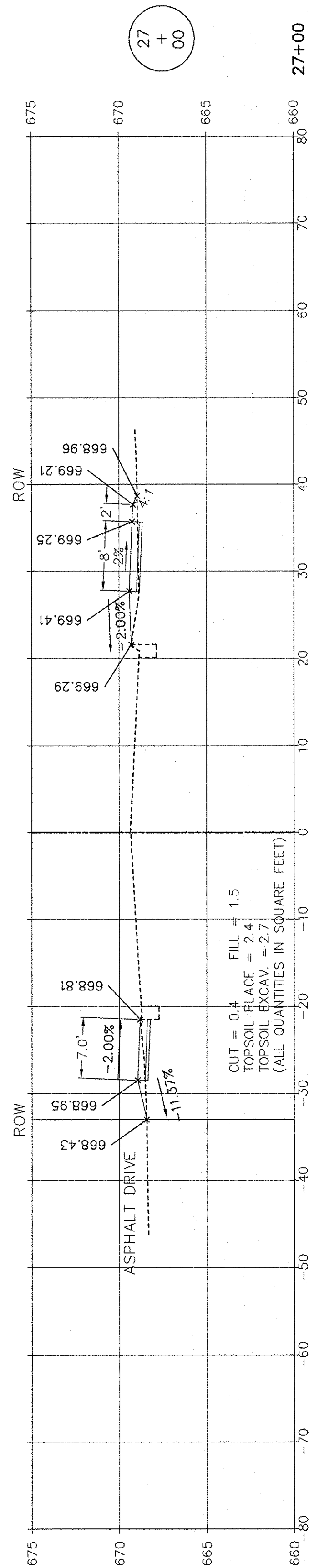
BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

SCALE: AS NOTED SHEET NO. 5 OF 9 SHEETS STA. 20+50 TO STA. 21+50

F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 62
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	







SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

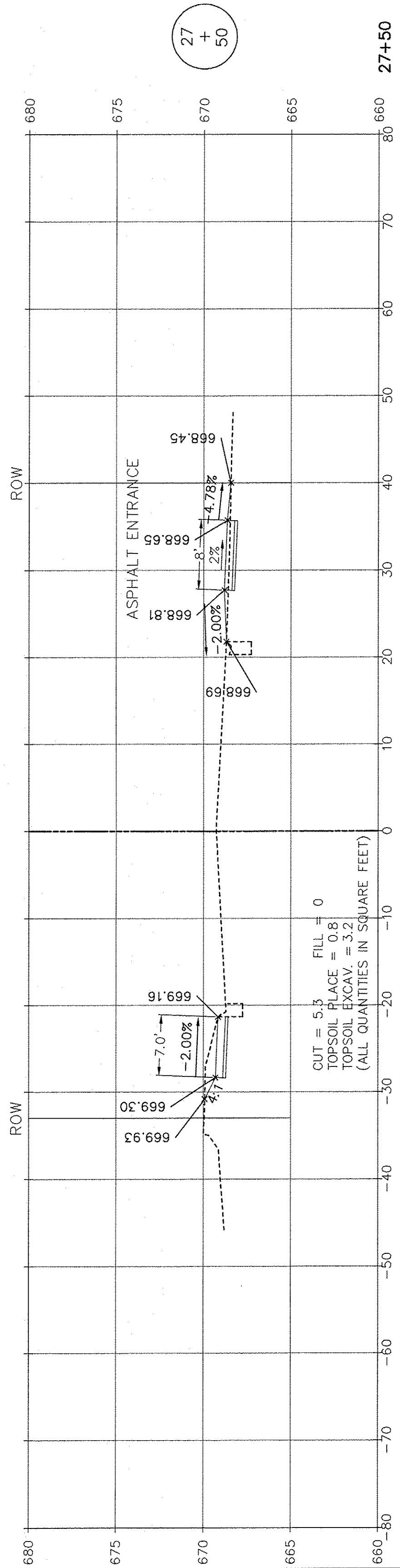
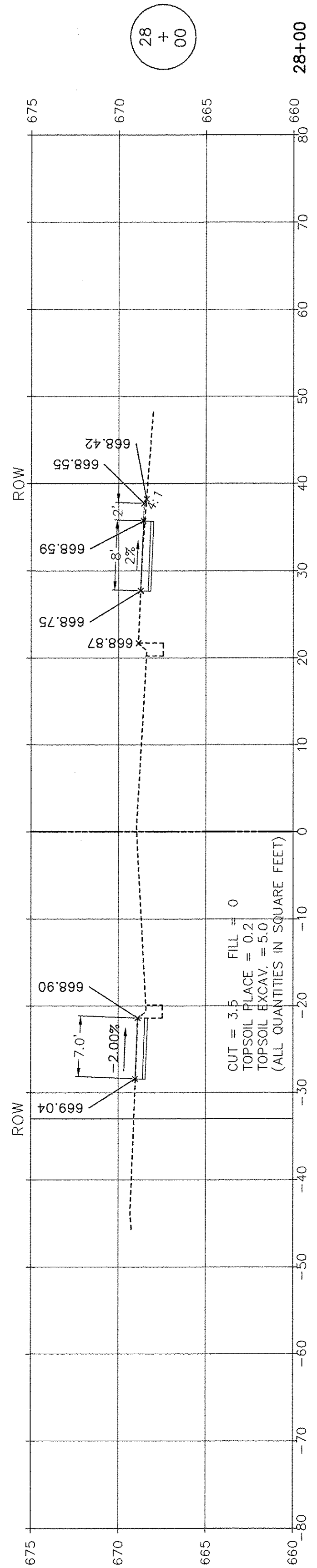
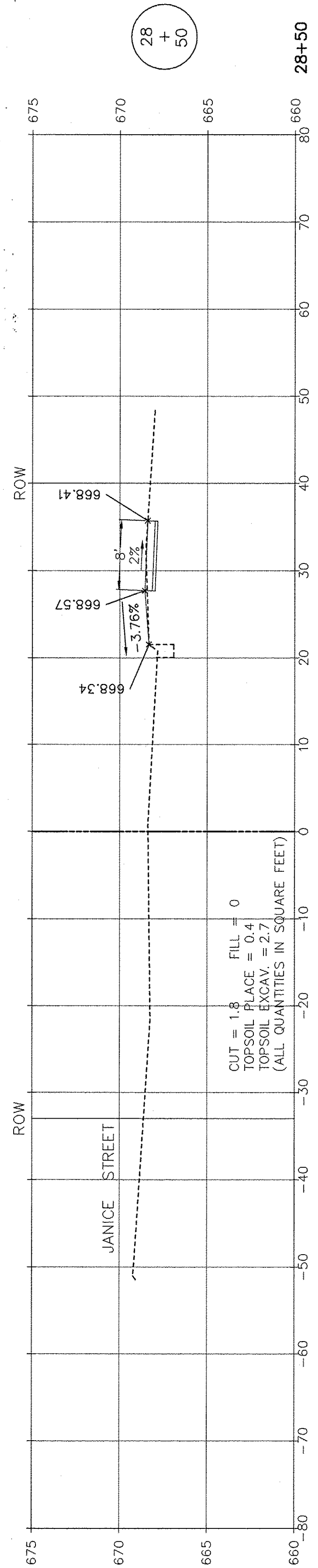
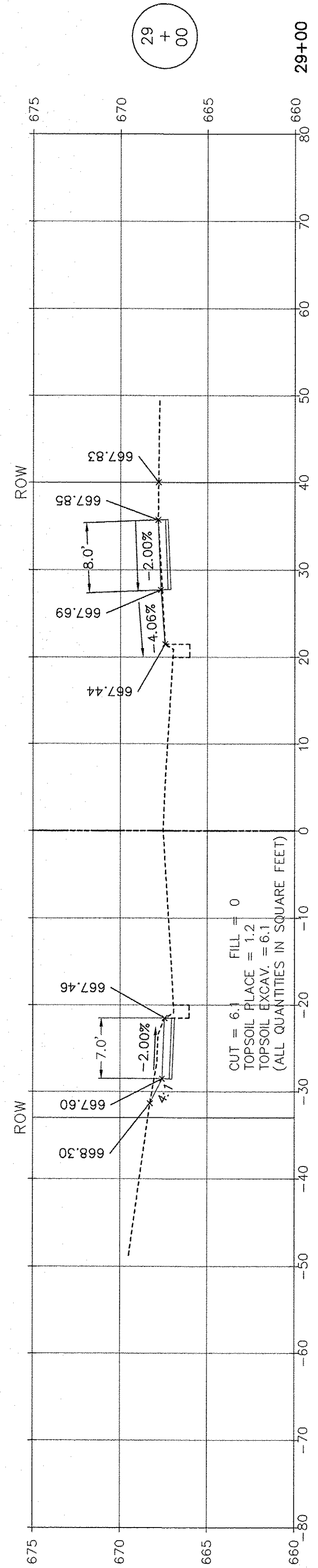
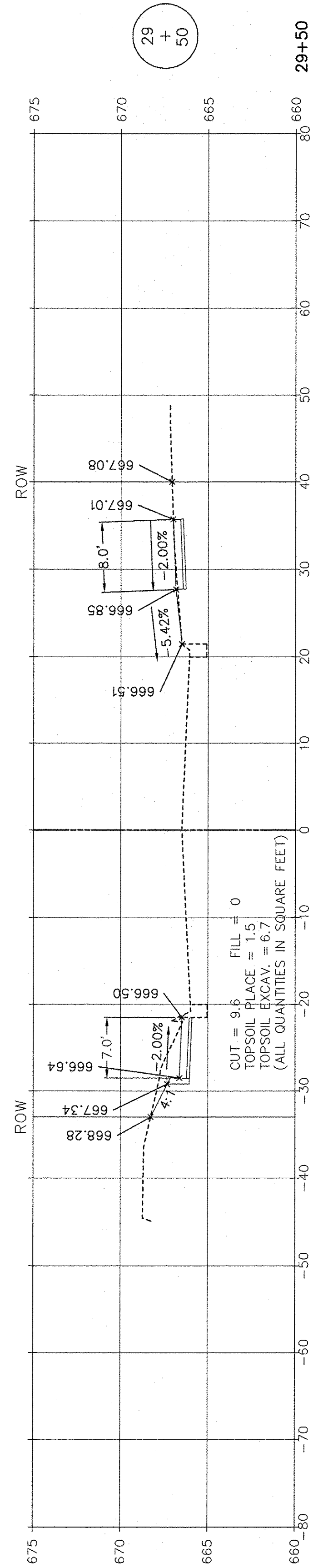
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**R.T. & A. Dwg. No.: 310-1076-C2**

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
SCALE: AS NOTED SHEET NO. 7 OF 9 SHEETS STA. 24+50 TO STA. 27+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	64
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	



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 FIELD BOOK & PAGE:

SCALE: 1" = 10' HORIZ.  
 1" = 5' VERT.

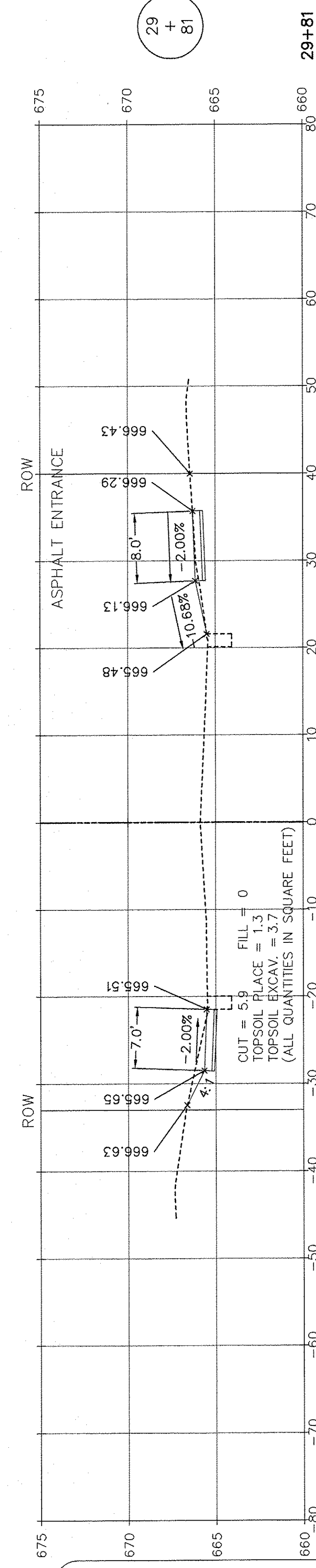
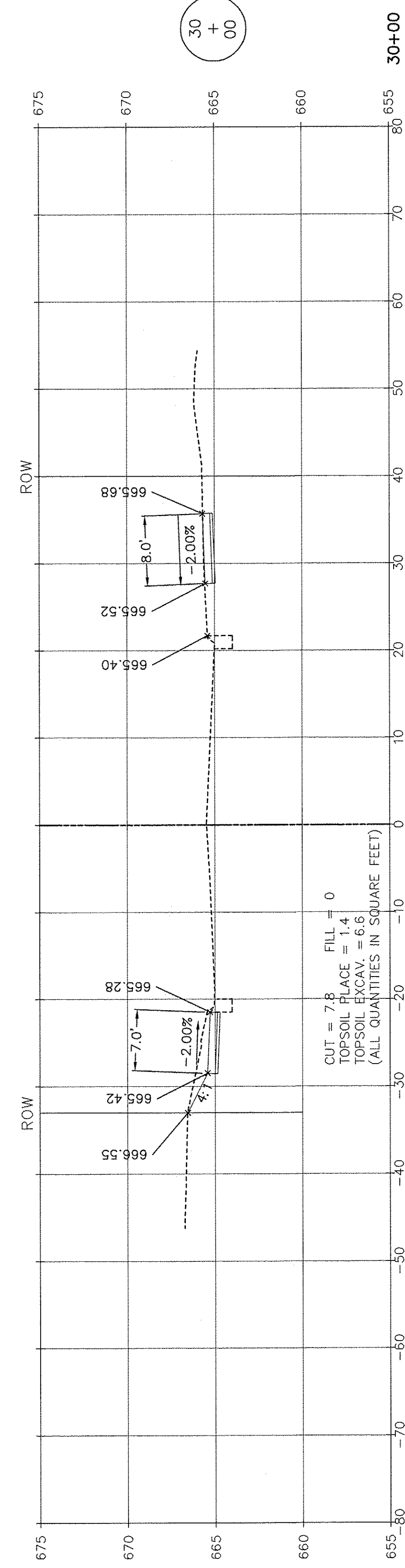
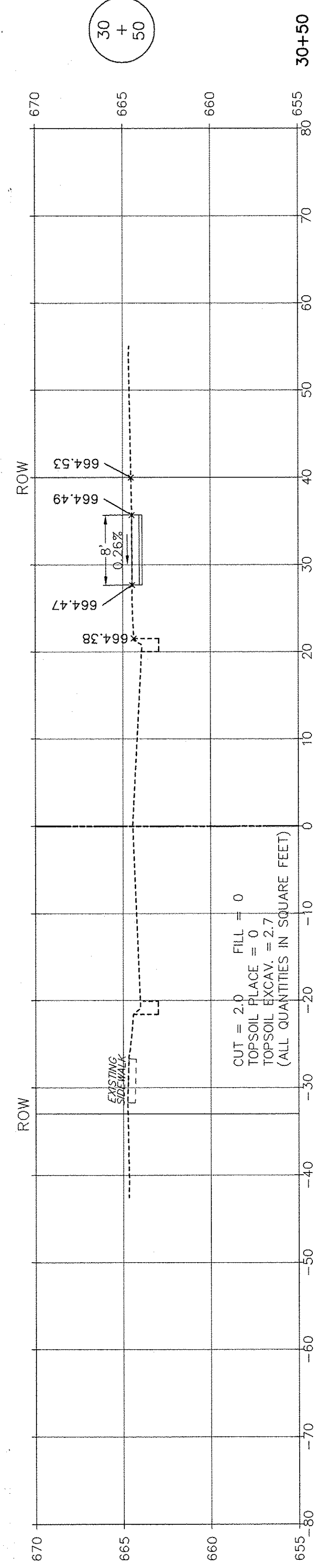
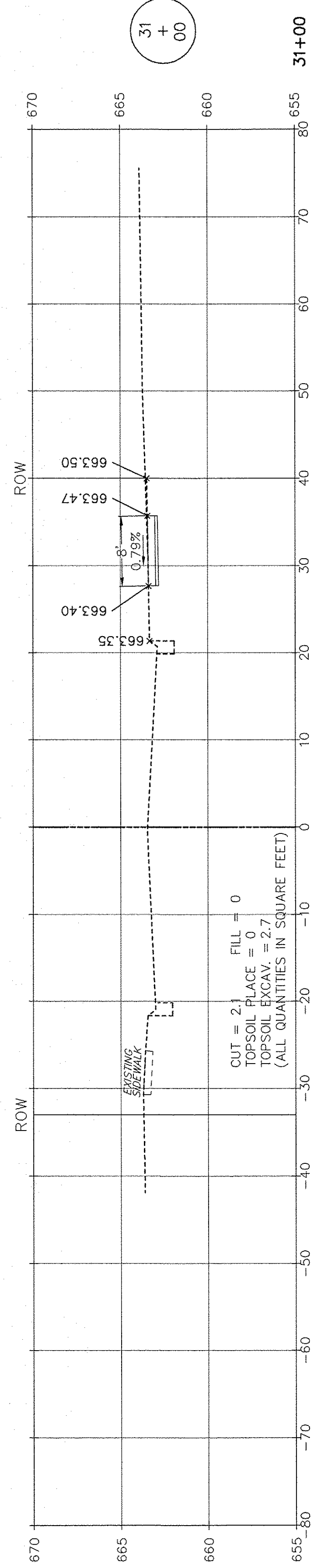
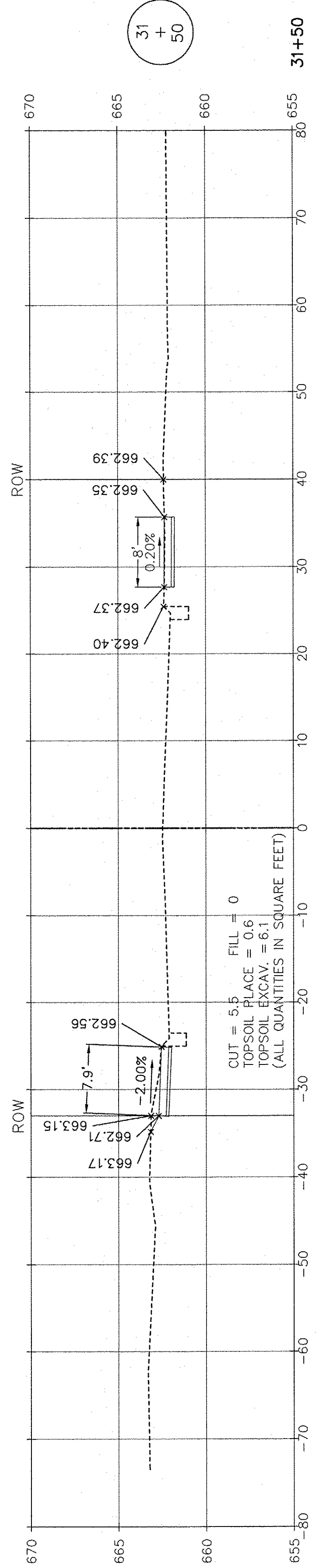
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
	DRAWN ECH @ RTA	CHECKED JPH @ RTA	REVISED
	PLOT SCALE =	DATE 7-30-2015	REVISED
	PLOT DATE =		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIGGS STREET - CROSS SECTIONS  
 BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
 SCALE: AS NOTED SHEET NO. 8 OF 9 SHEETS STA. 27+50 TO STA. 29+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	65
		CONTRACT NO.	61D48	
ILLINOIS FEDERAL AID PROJECT				





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 LATEST R.T. & A. REVISION: 9-16-2016 FIELD BOOK & PAGE:  
**R.T. & A. Dwg. No.: 310-1076-C2**

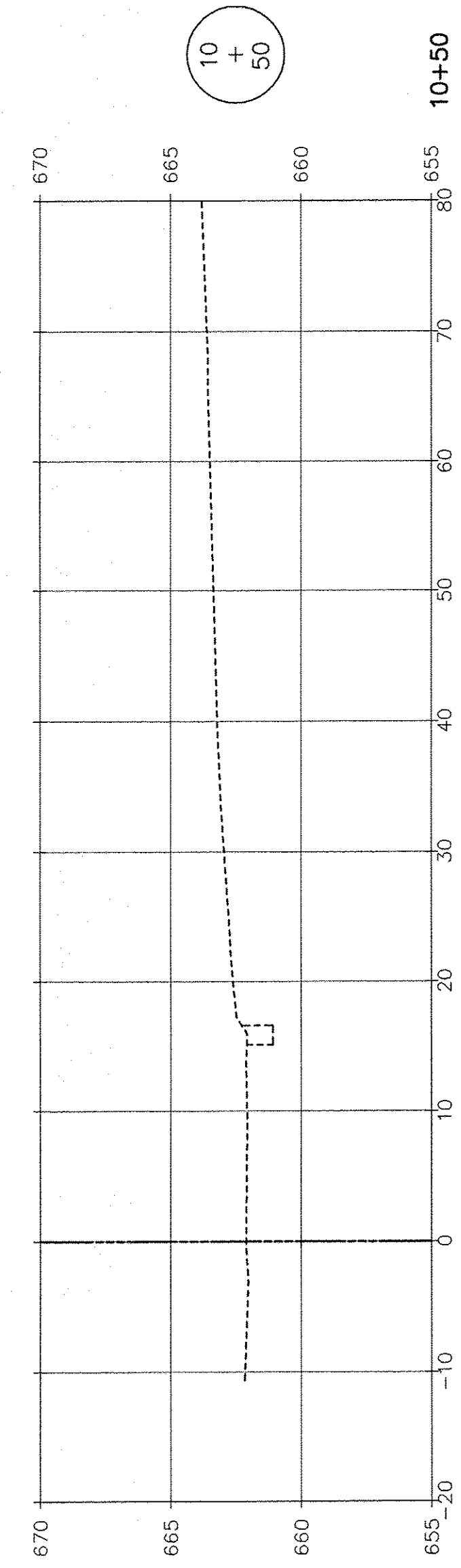
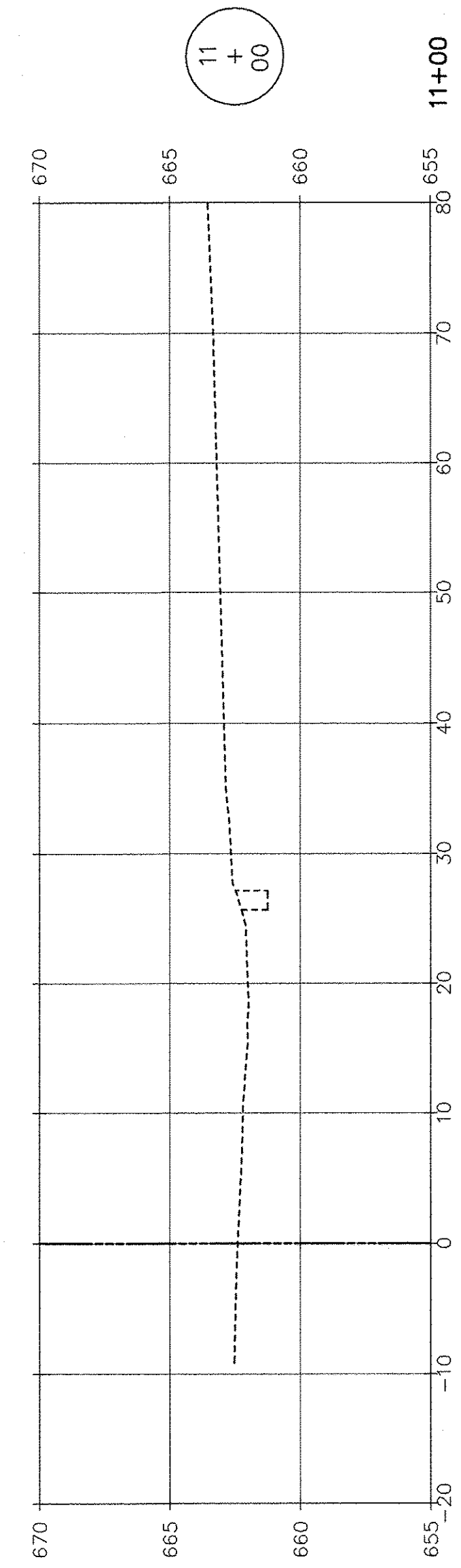
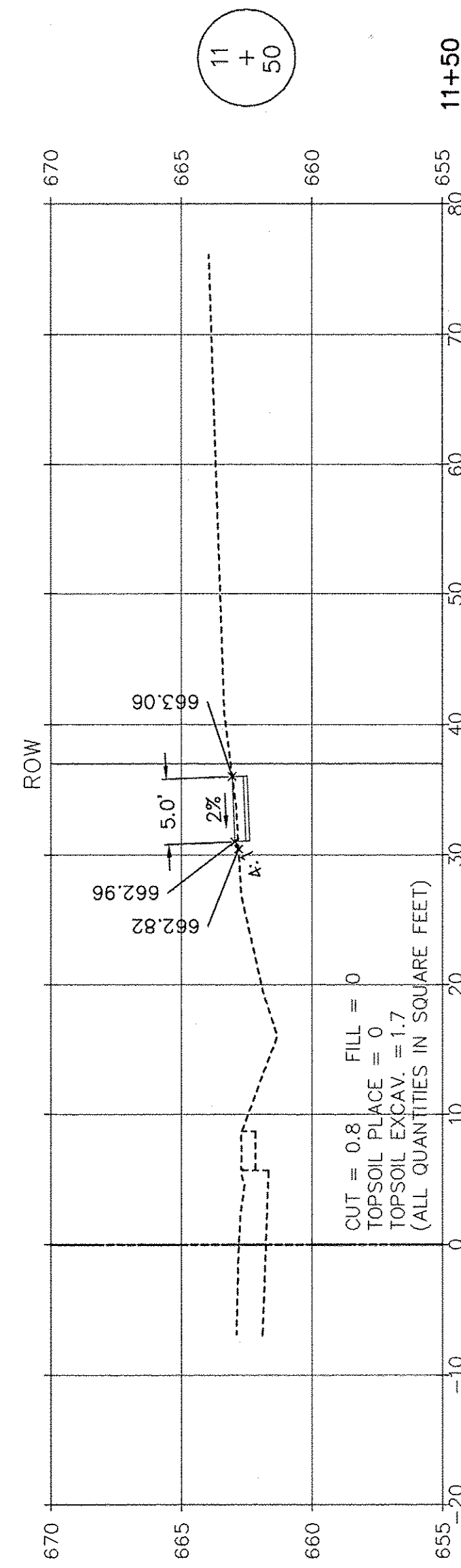
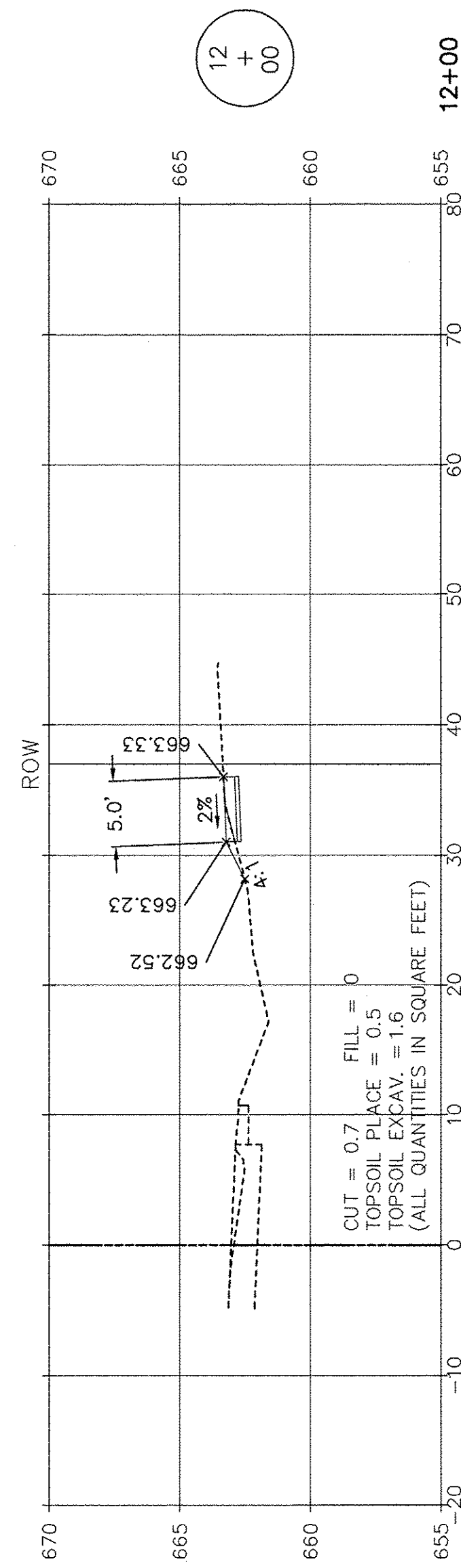
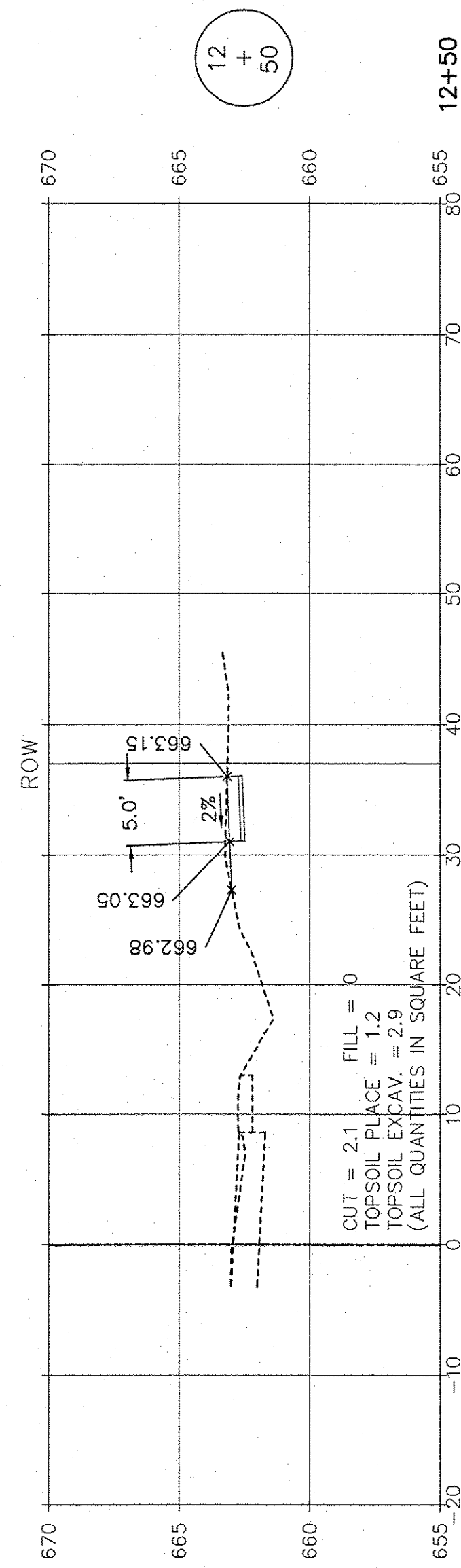
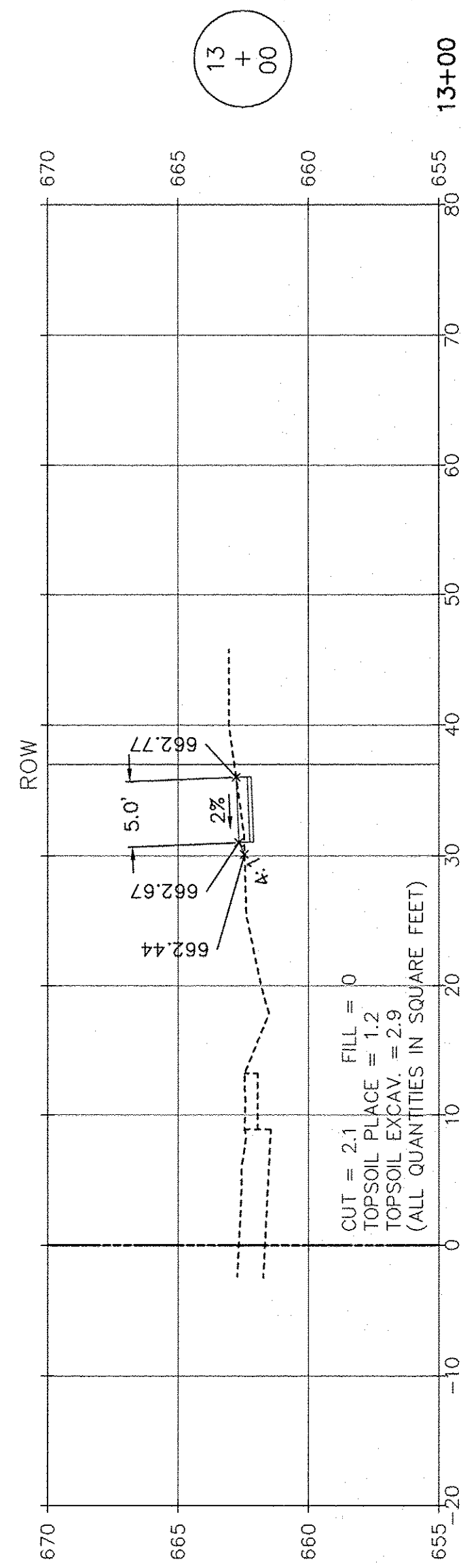
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED
	PLOT DATE =	CHECKED JPH @ RTA	REVISED
		DATE 7-30-2015	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIGGS STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD**

SCALE: AS NOTED SHEET NO. 9 OF 9 SHEETS STA. 30+00 TO STA. 31+50

F.A.U. RTE. 383 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 66
CONTRACT NO. 61D48			ILLINOIS FEDERAL AID PROJECT	

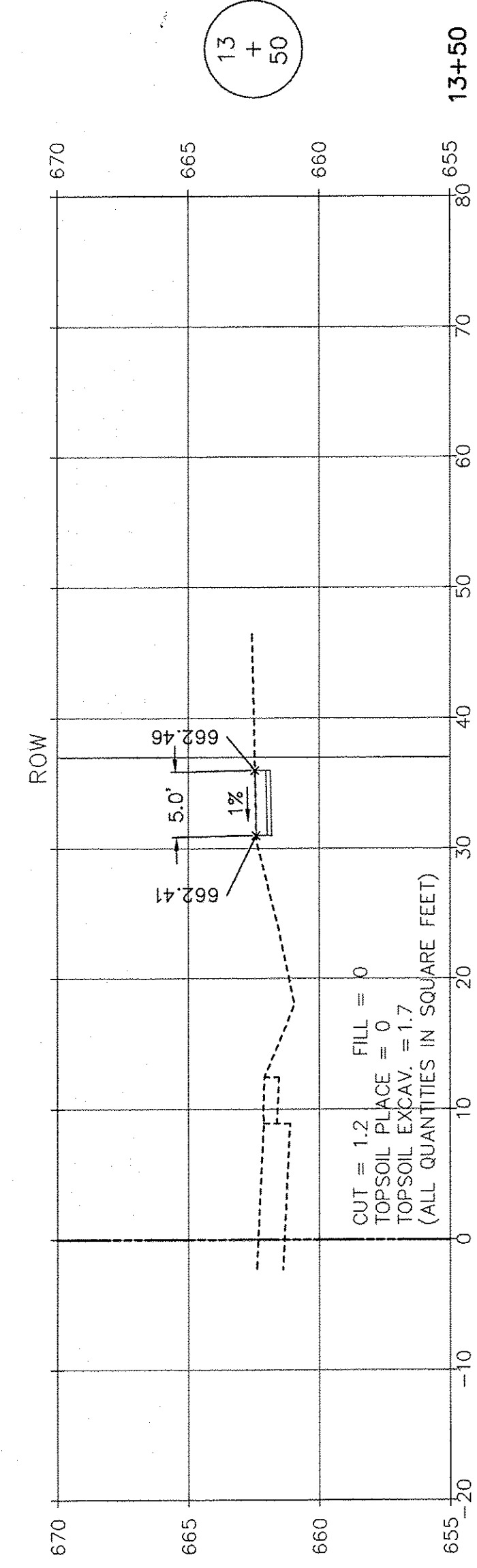
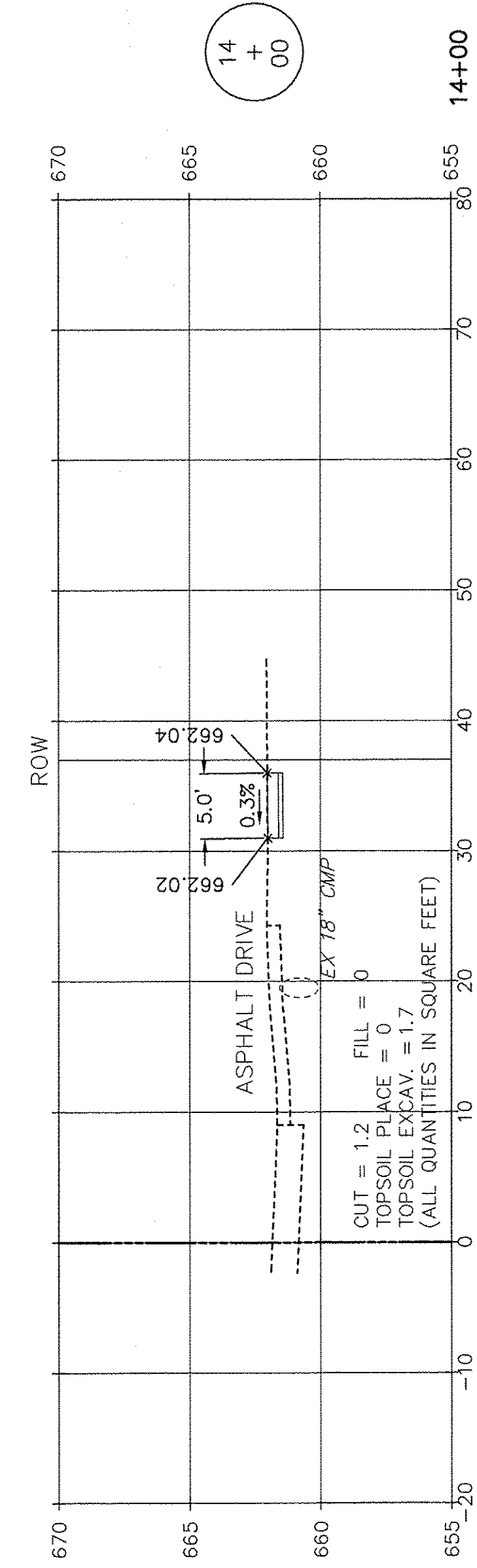
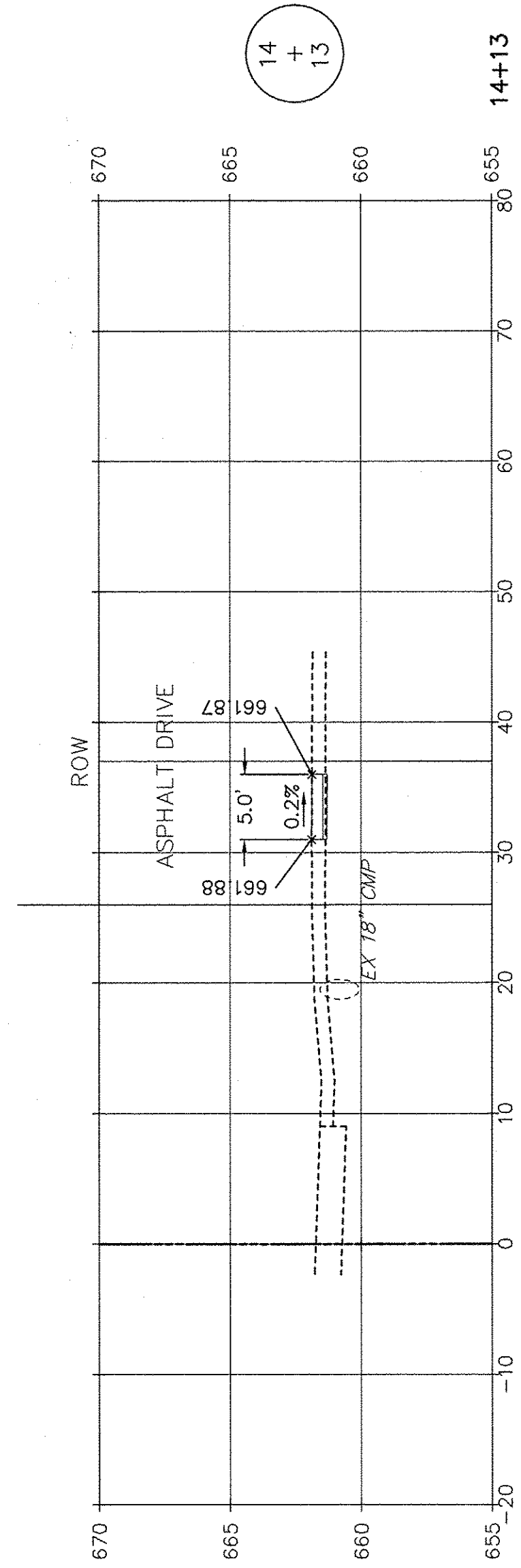
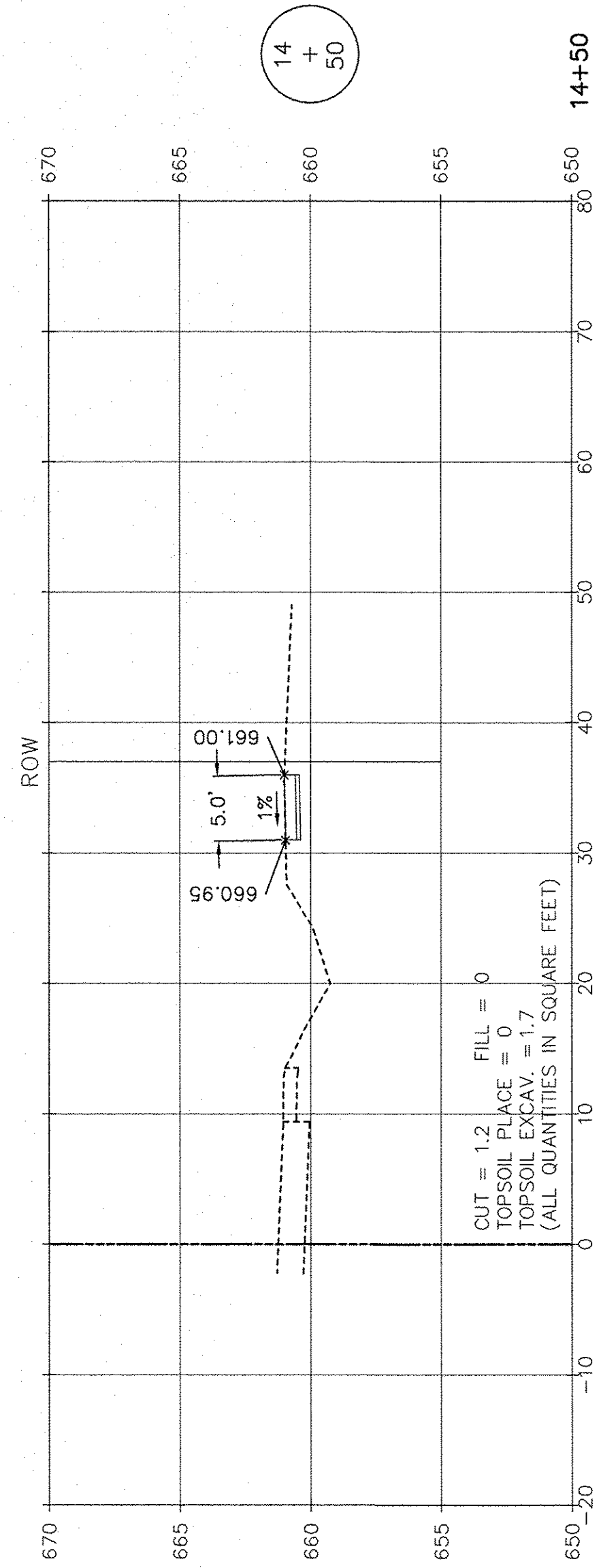
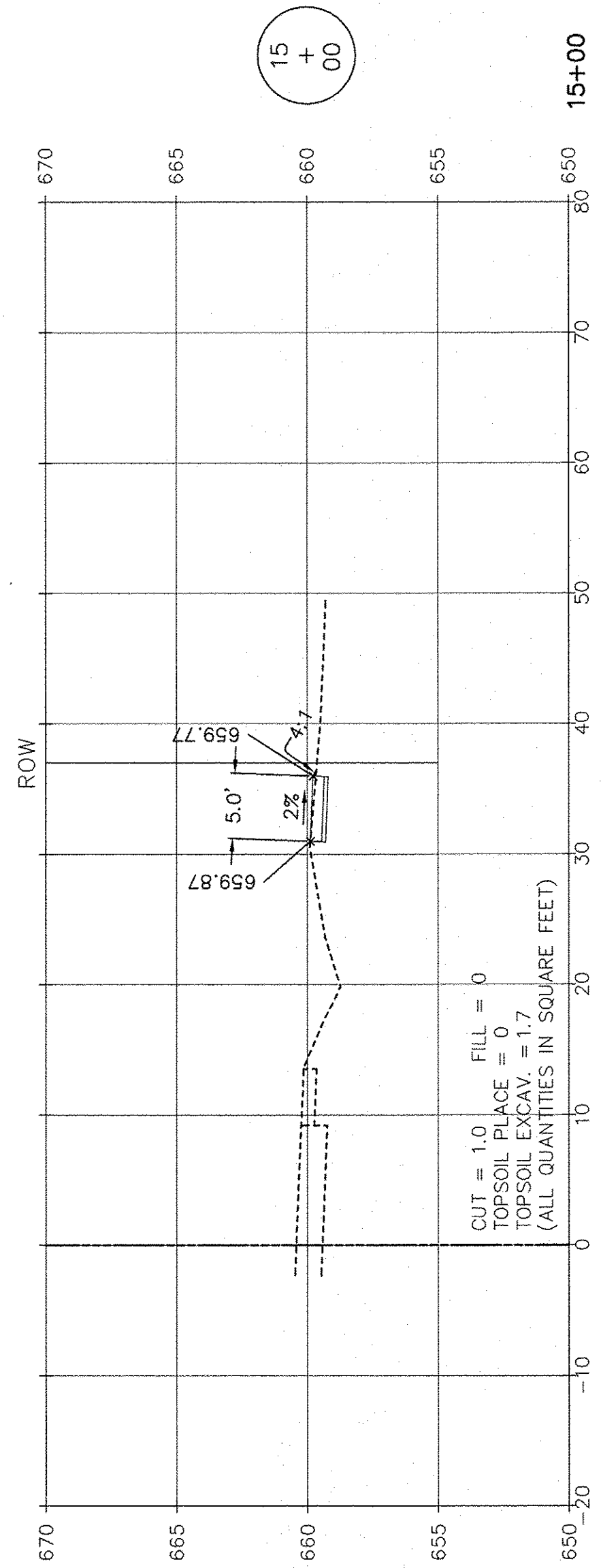


SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIVISION STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD			F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 67
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: AS NOTED	SHEET NO. 1 OF 15 SHEETS	STA. 10+50 TO STA. 13+00	ILLINOIS FEDERAL AID PROJECT				
PLOT DATE =	CHECKED JPH @ RTA	REVISED	REVISED	CONTRACT NO. 61D48								
	DATE 7-30-2015	REVISED										





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED
	PLOT DATE =	CHECKED JPH @ RTA	REVISED
		DATE 7-30-2015	REVISED

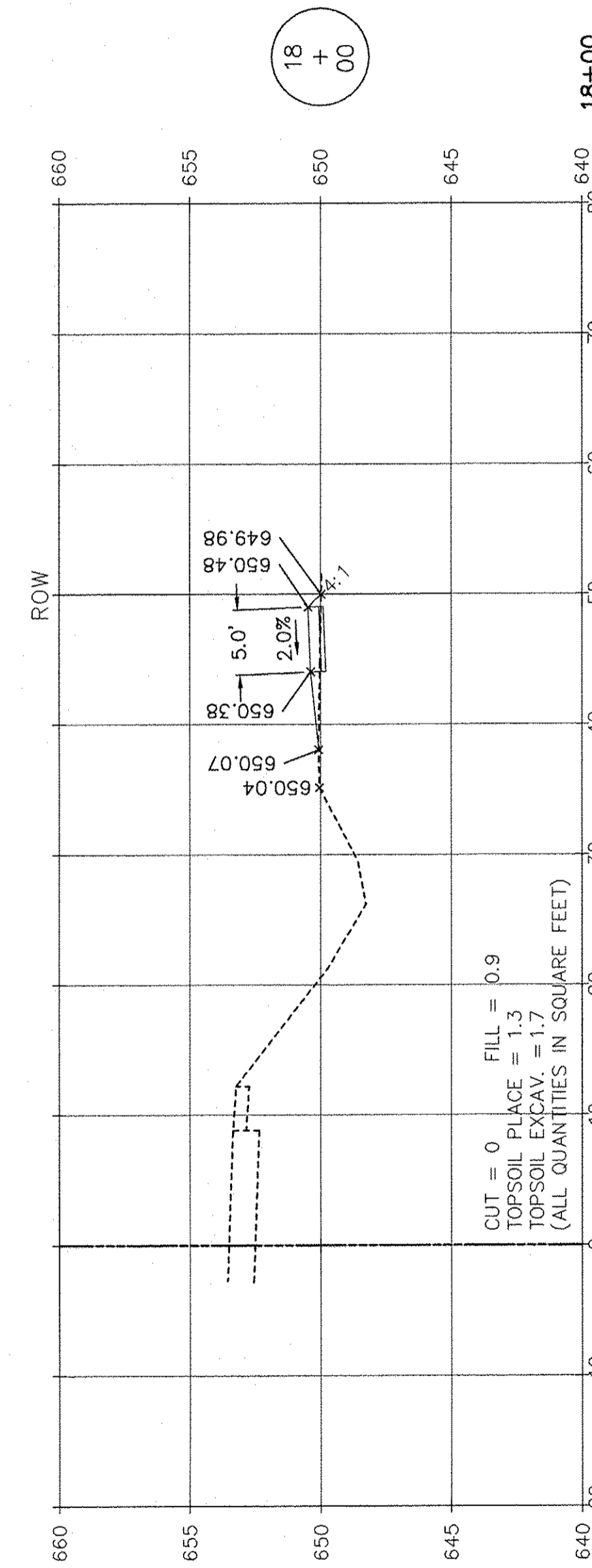
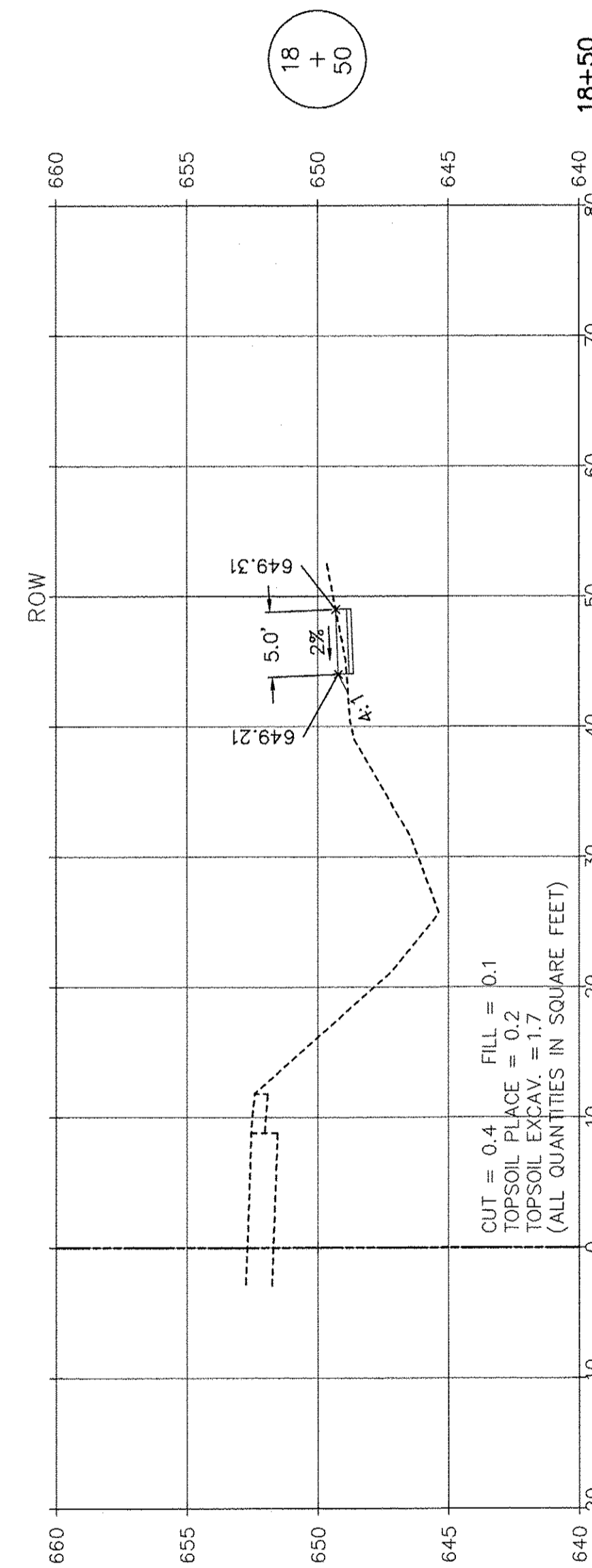
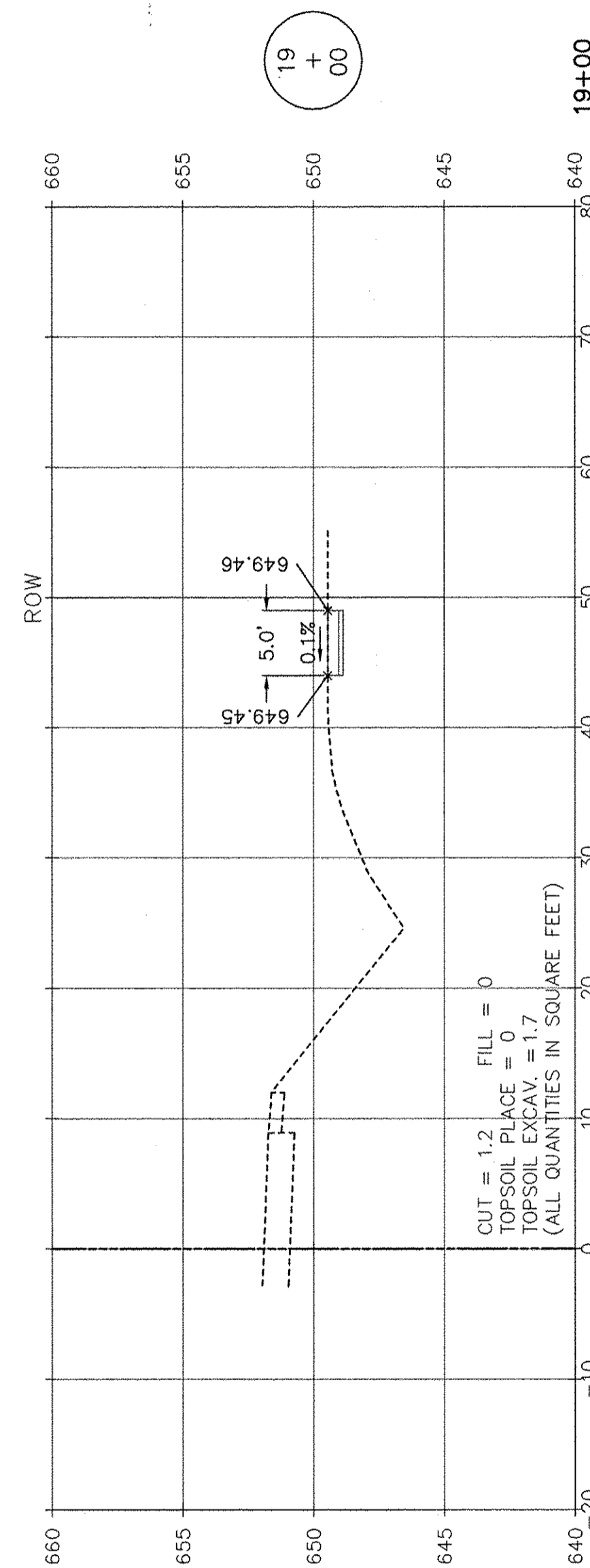
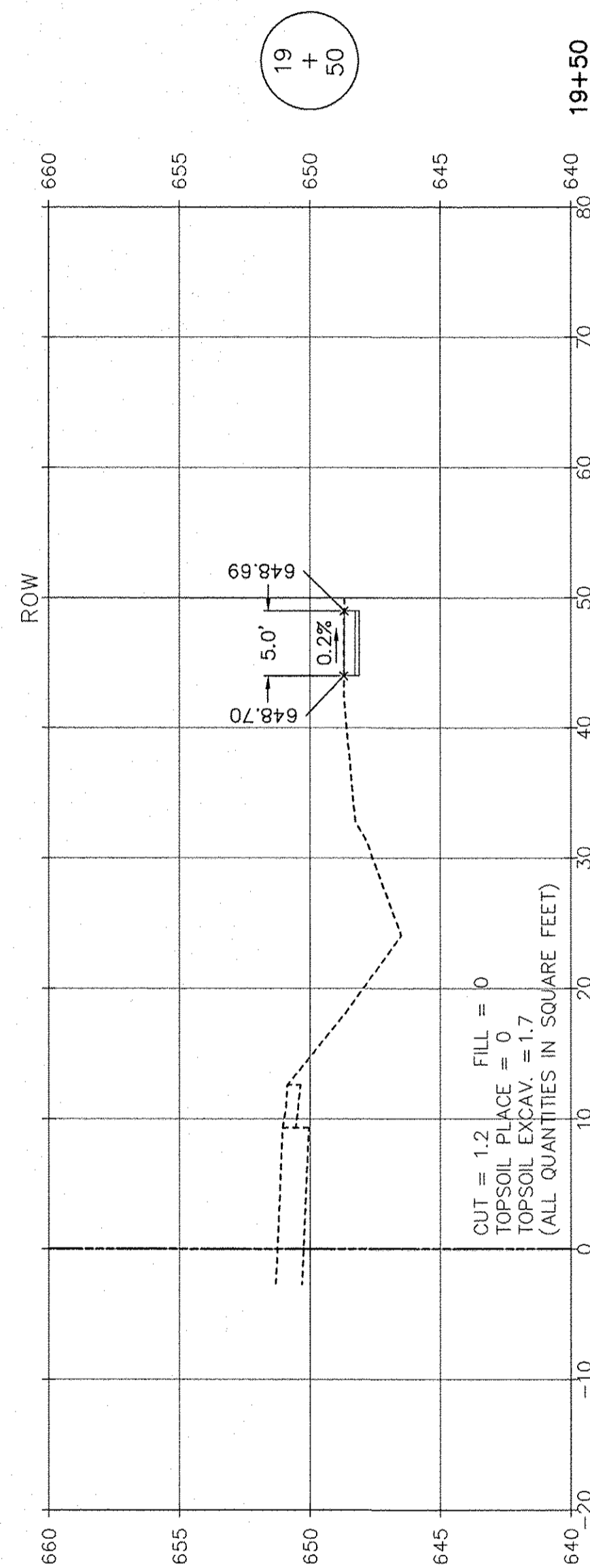
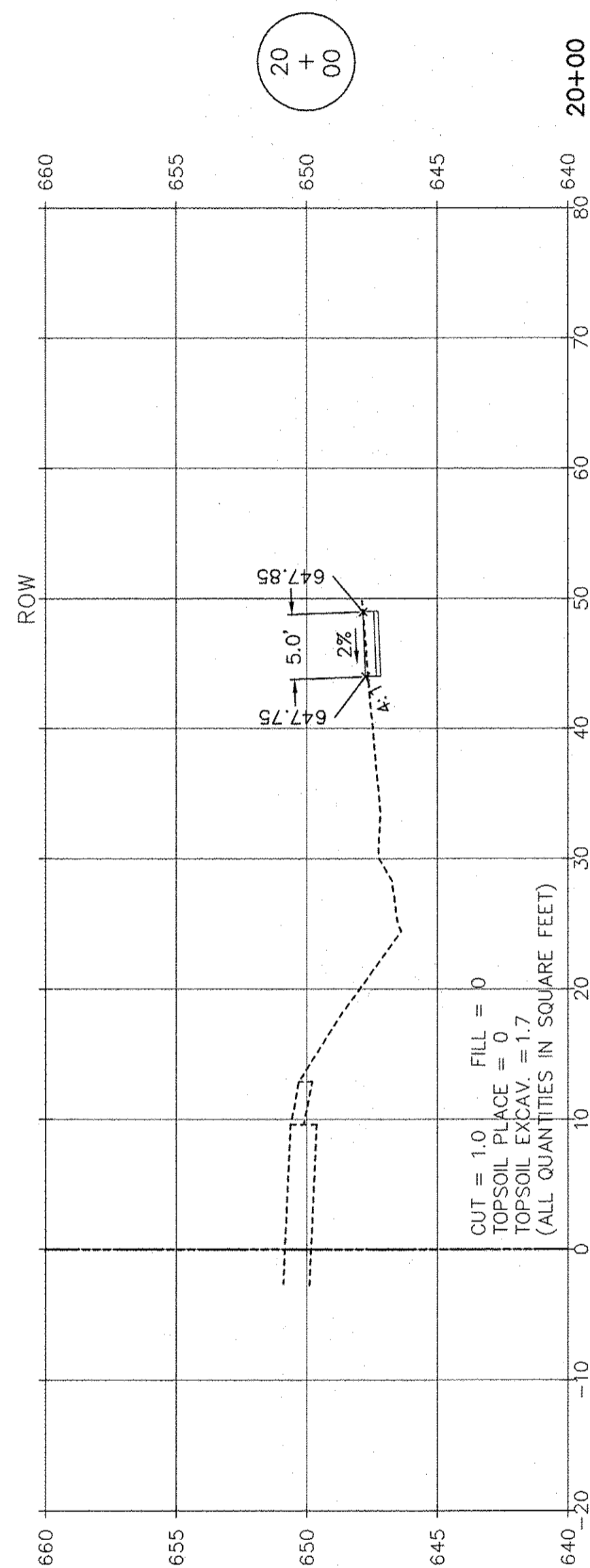
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS		
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		
SCALE: AS NOTED	SHEET NO. 2 OF 15 SHEETS	STA. 13+50 TO STA. 15+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	68
			CONTRACT NO. 61D48	
ILLINOIS FEDERAL AID PROJECT				







SCALE: 1" = 10' HORIZ.  
 1" = 5' VERT.

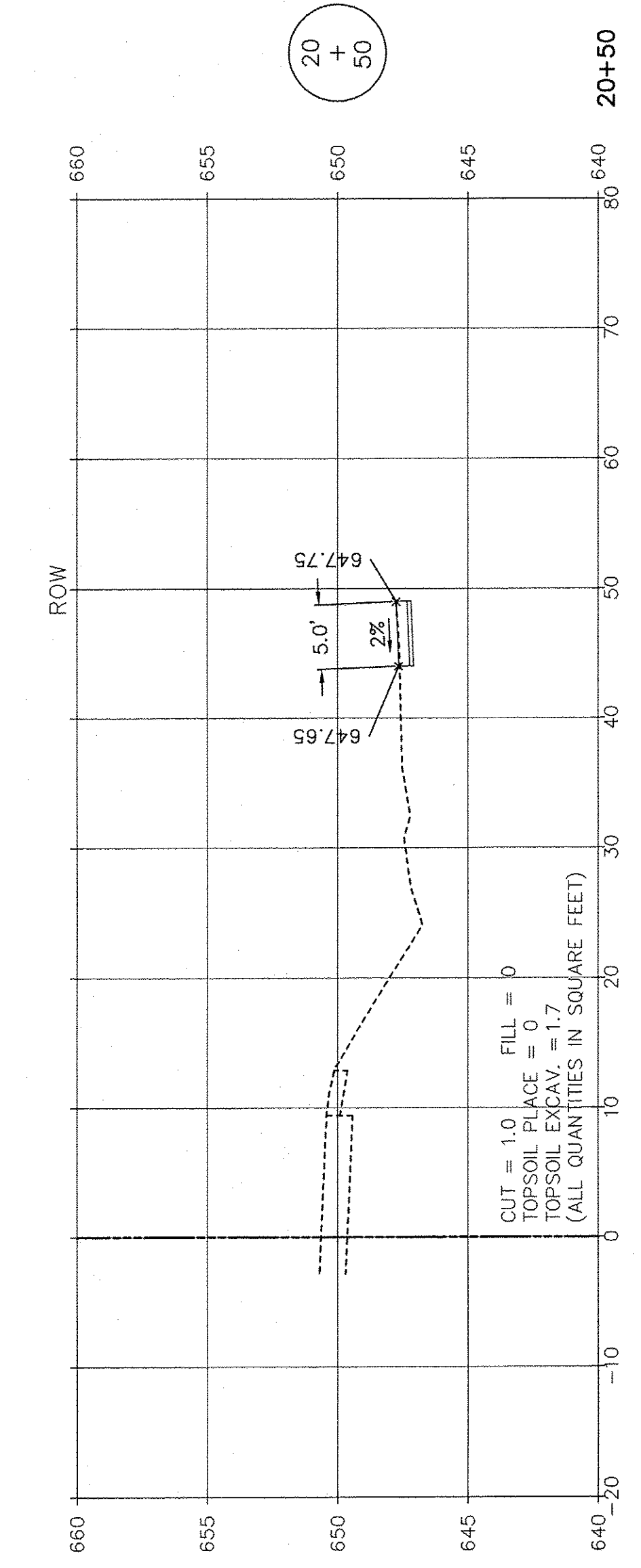
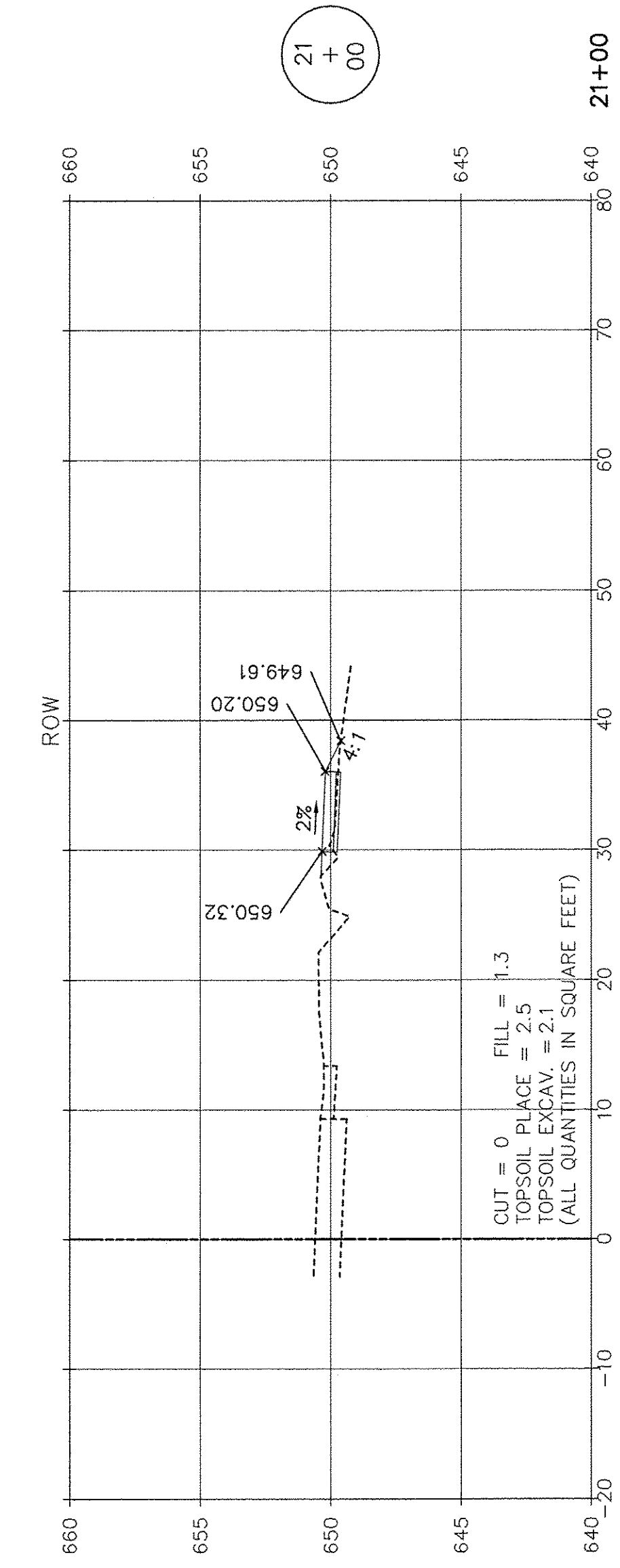
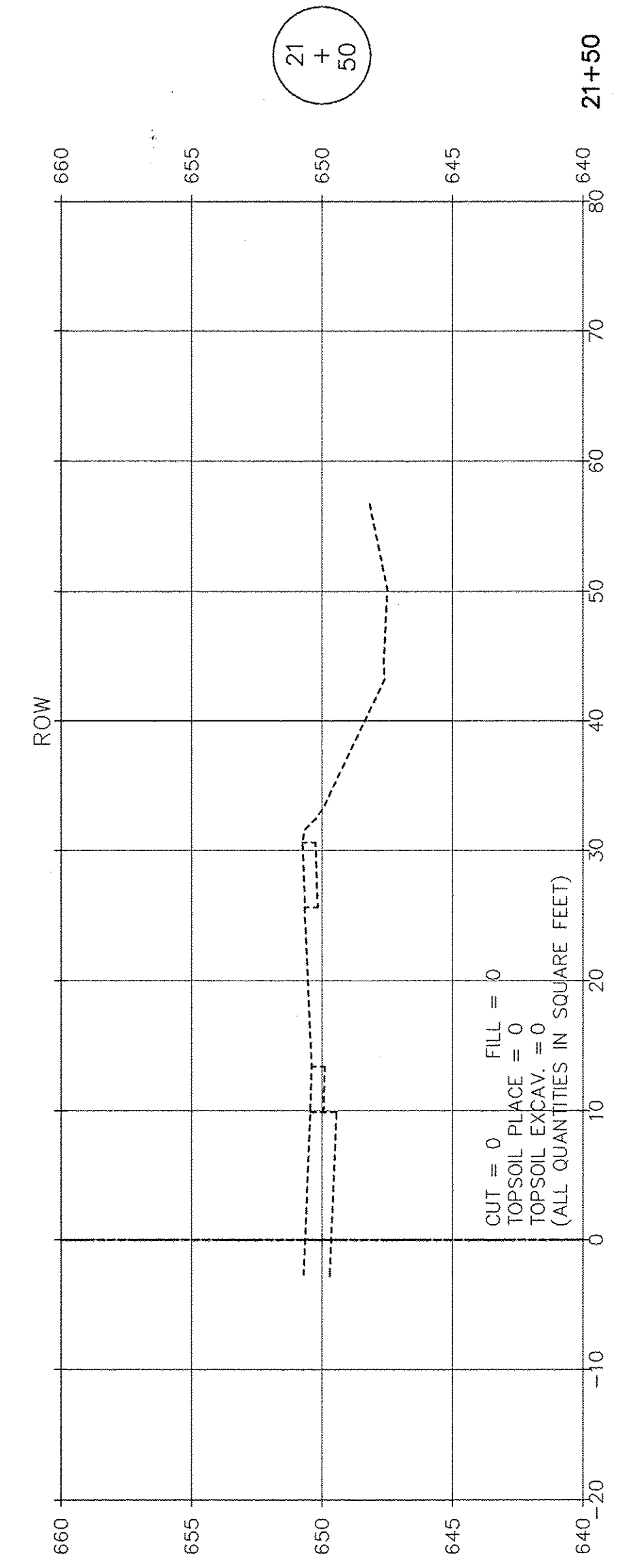
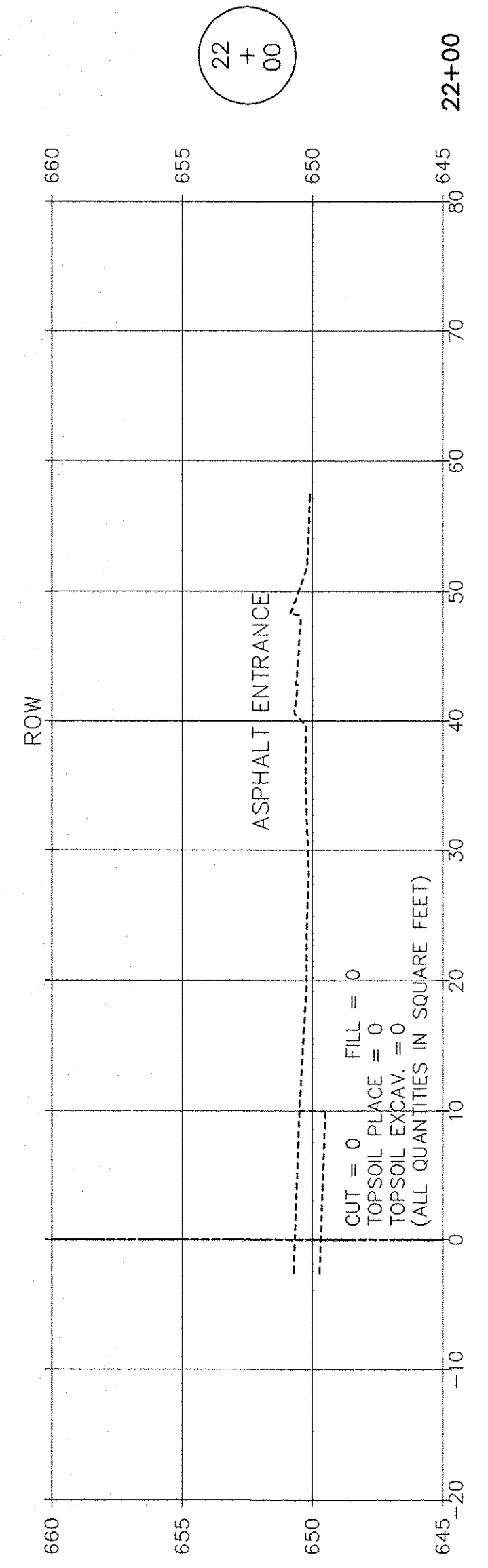
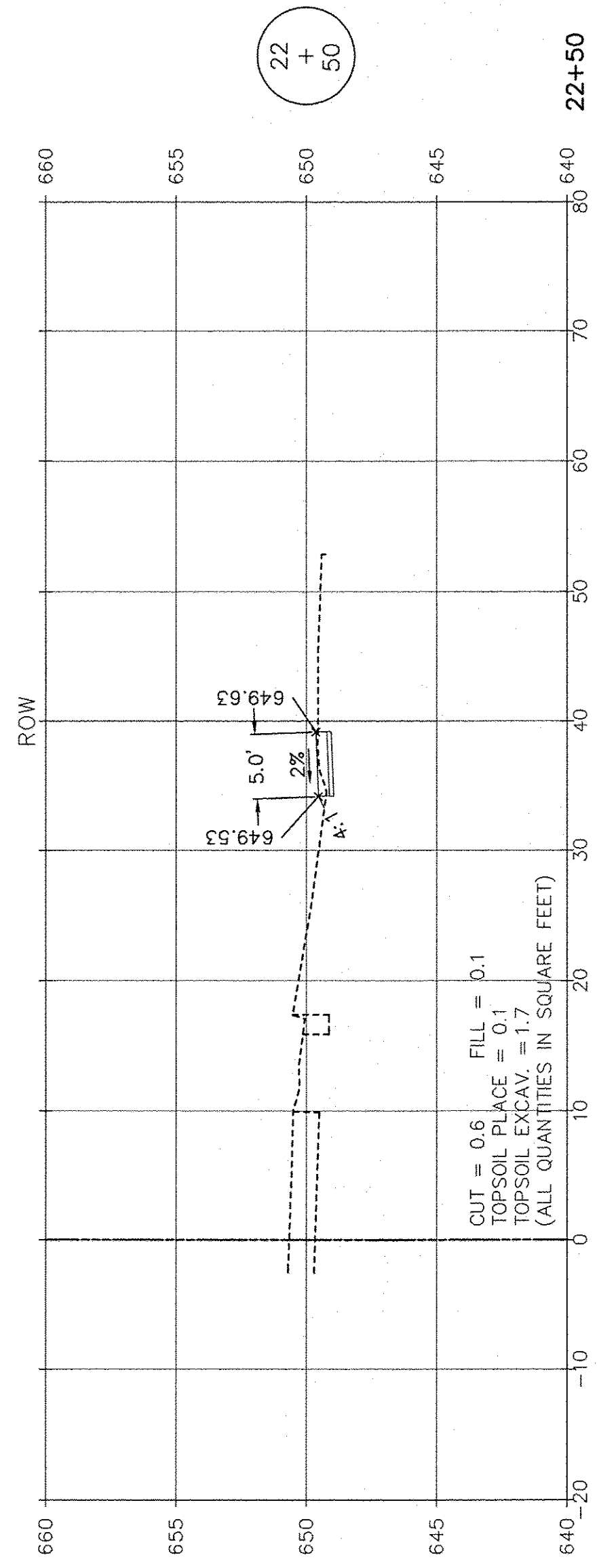
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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
 BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 70
SCALE: AS NOTED		SHEET NO. 4 OF 15 SHEETS		STA. 18+00 TO STA. 20+00
ILLINOIS FEDERAL AID PROJECT				

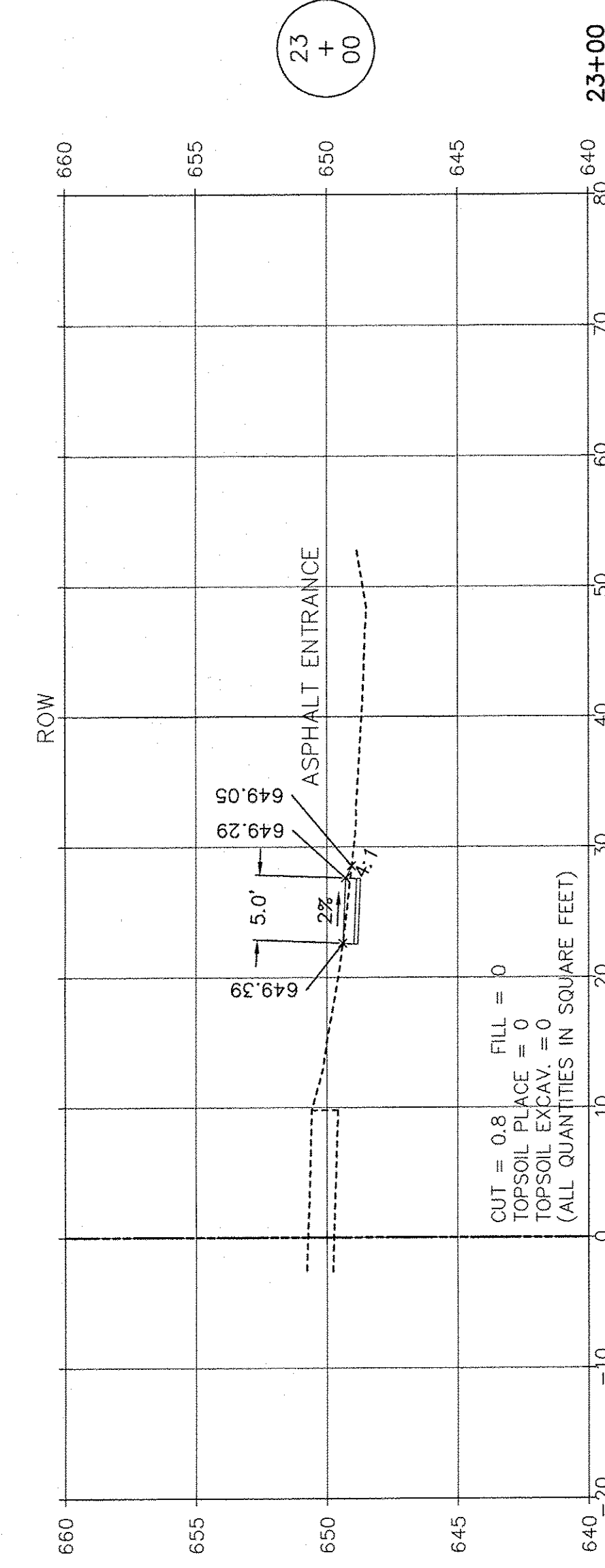
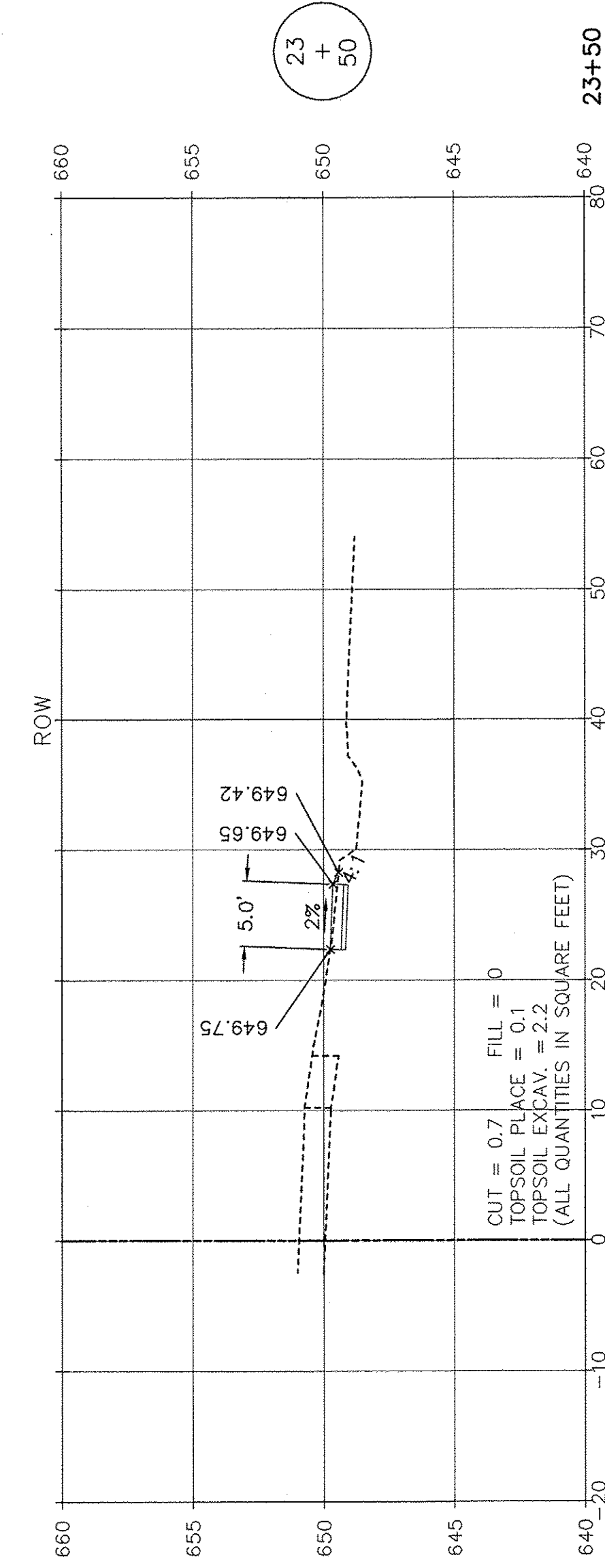
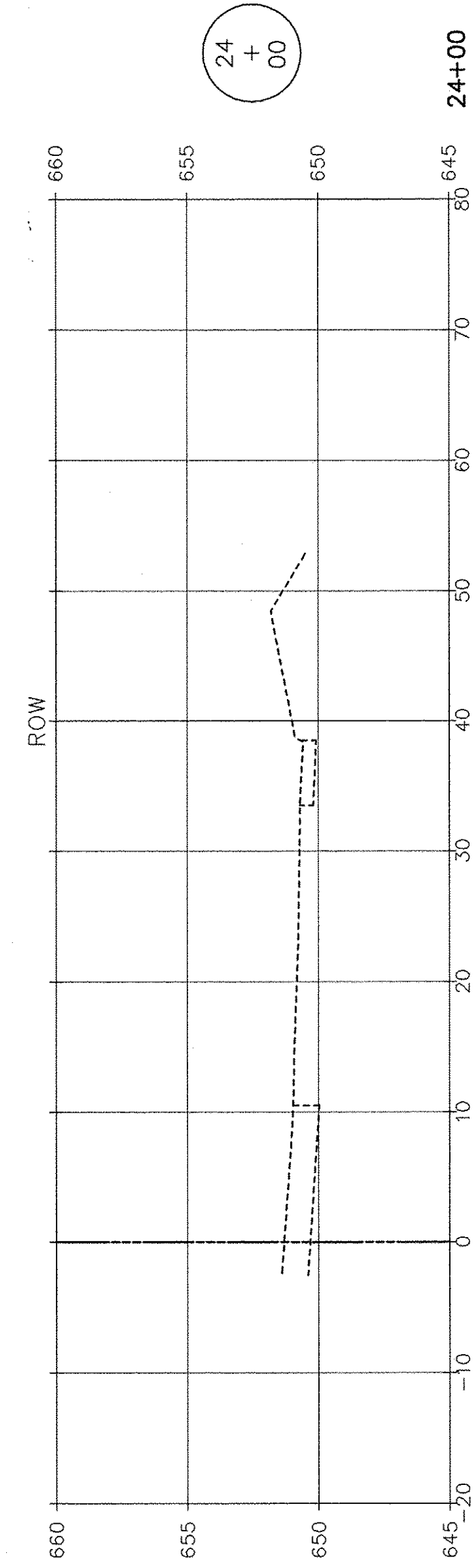
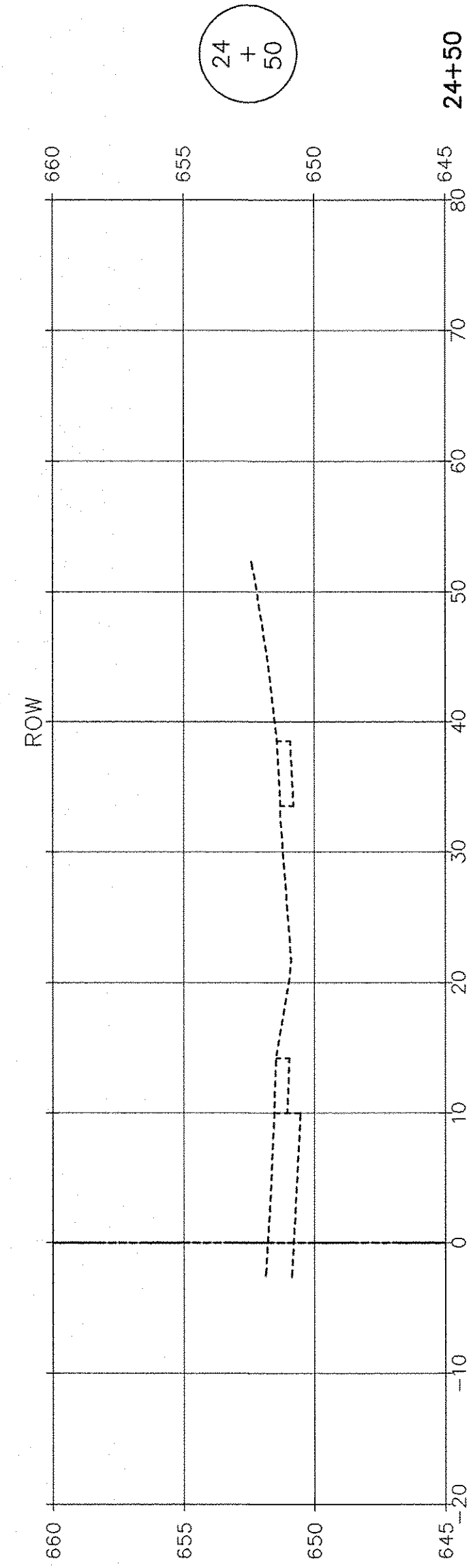
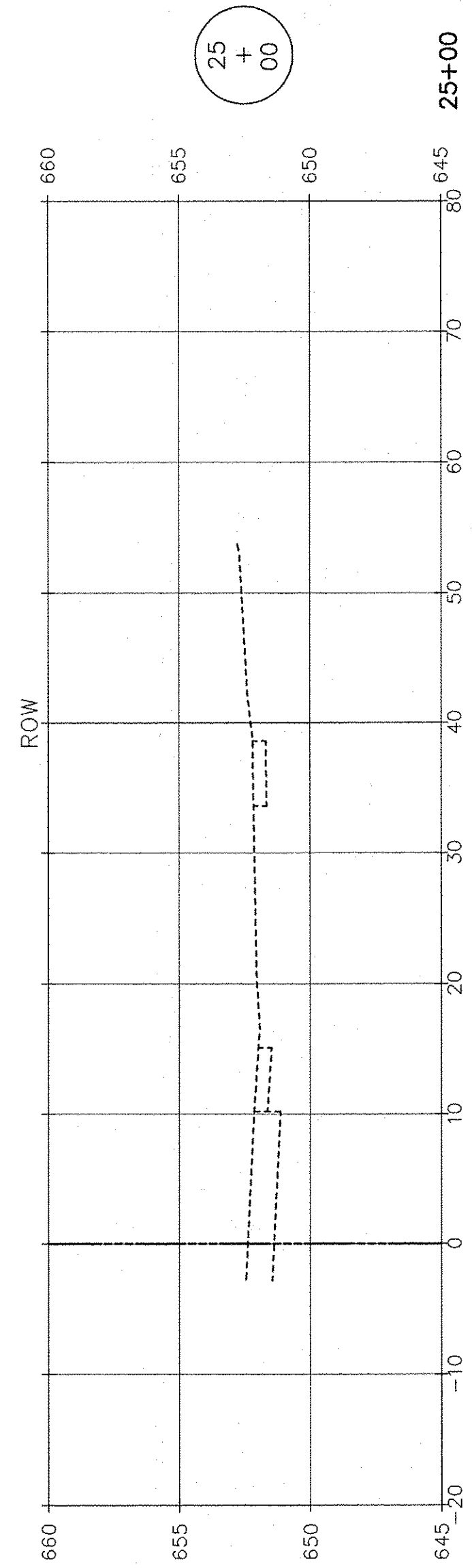


SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: AS NOTED	SHEET NO. 5 OF 15 SHEETS	STA. 20+50 TO STA. 22+50	363 / 291 / 366	10-00072-00-BT	WILL	93	71
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		ILLINOIS FEDERAL AID PROJECT							
		DATE 7-30-2015	REVISED		CONTRACT NO. 61D48							





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

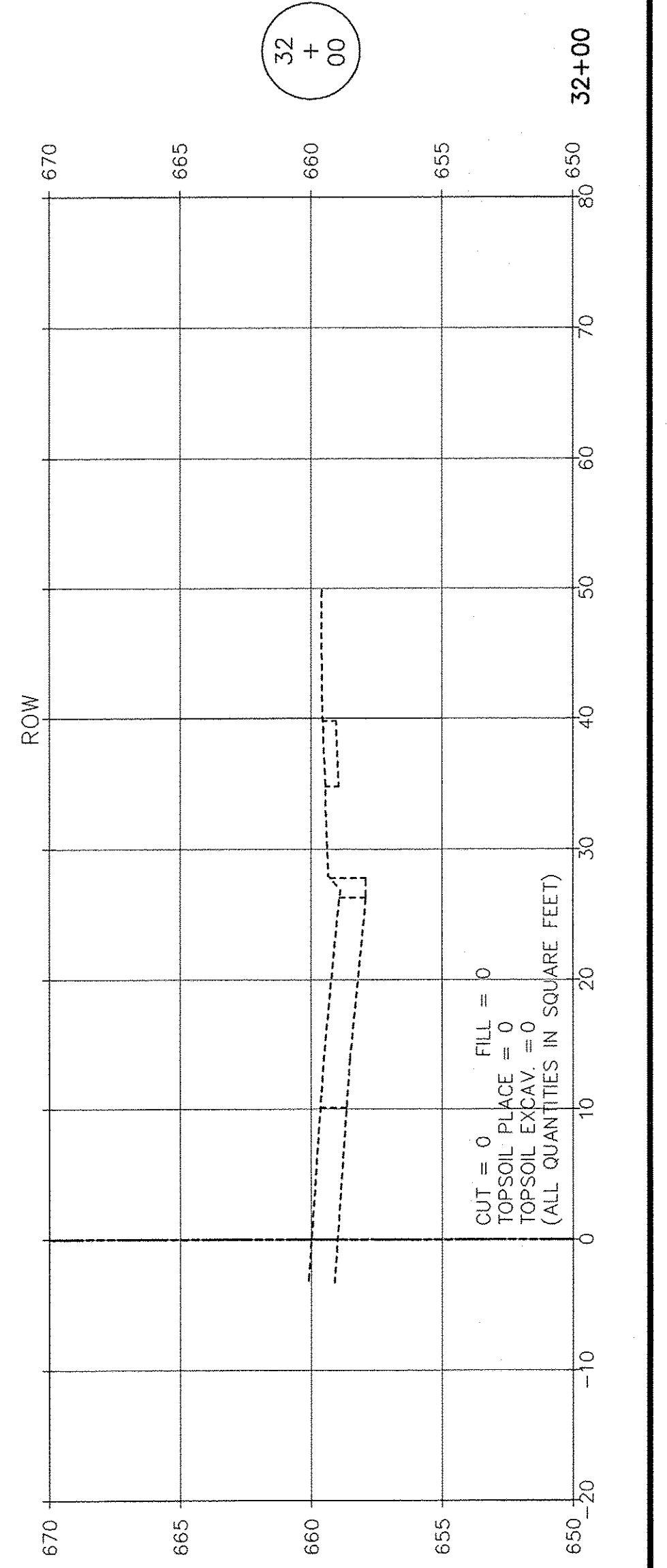
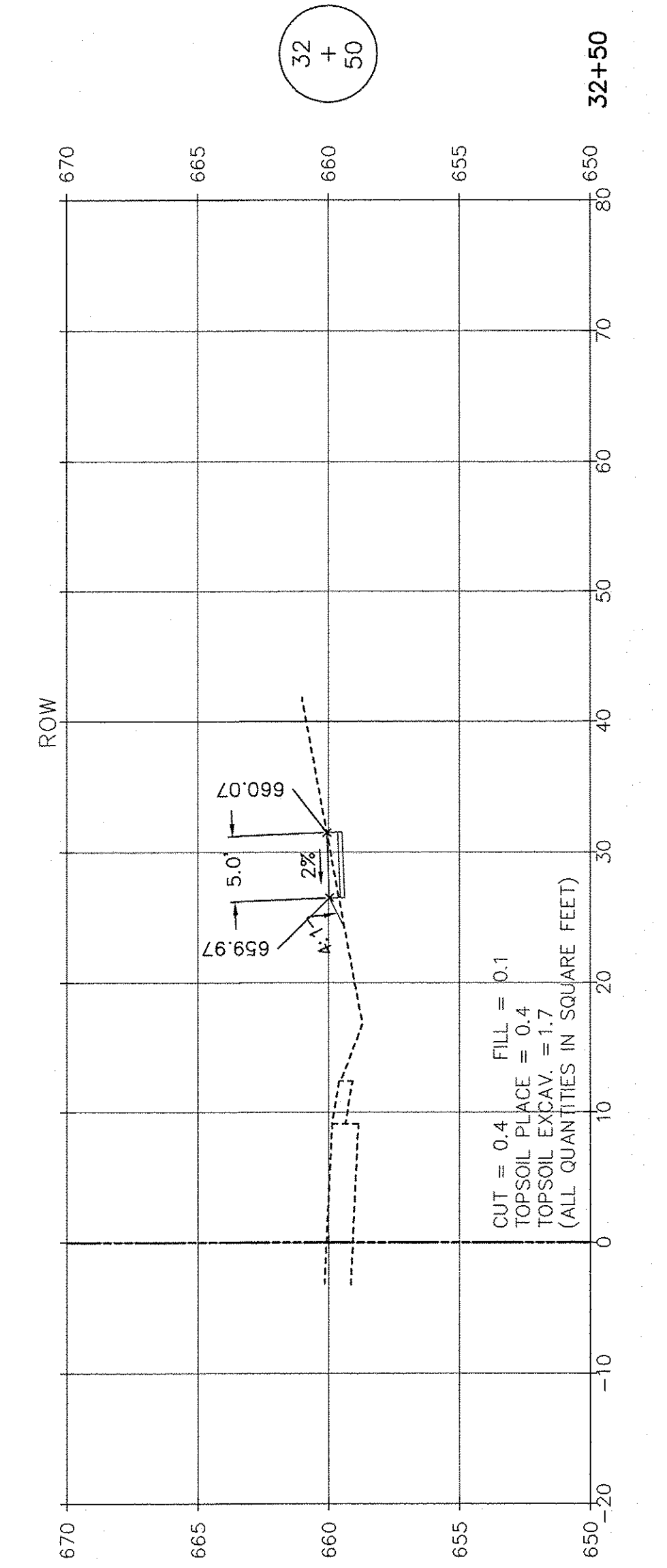
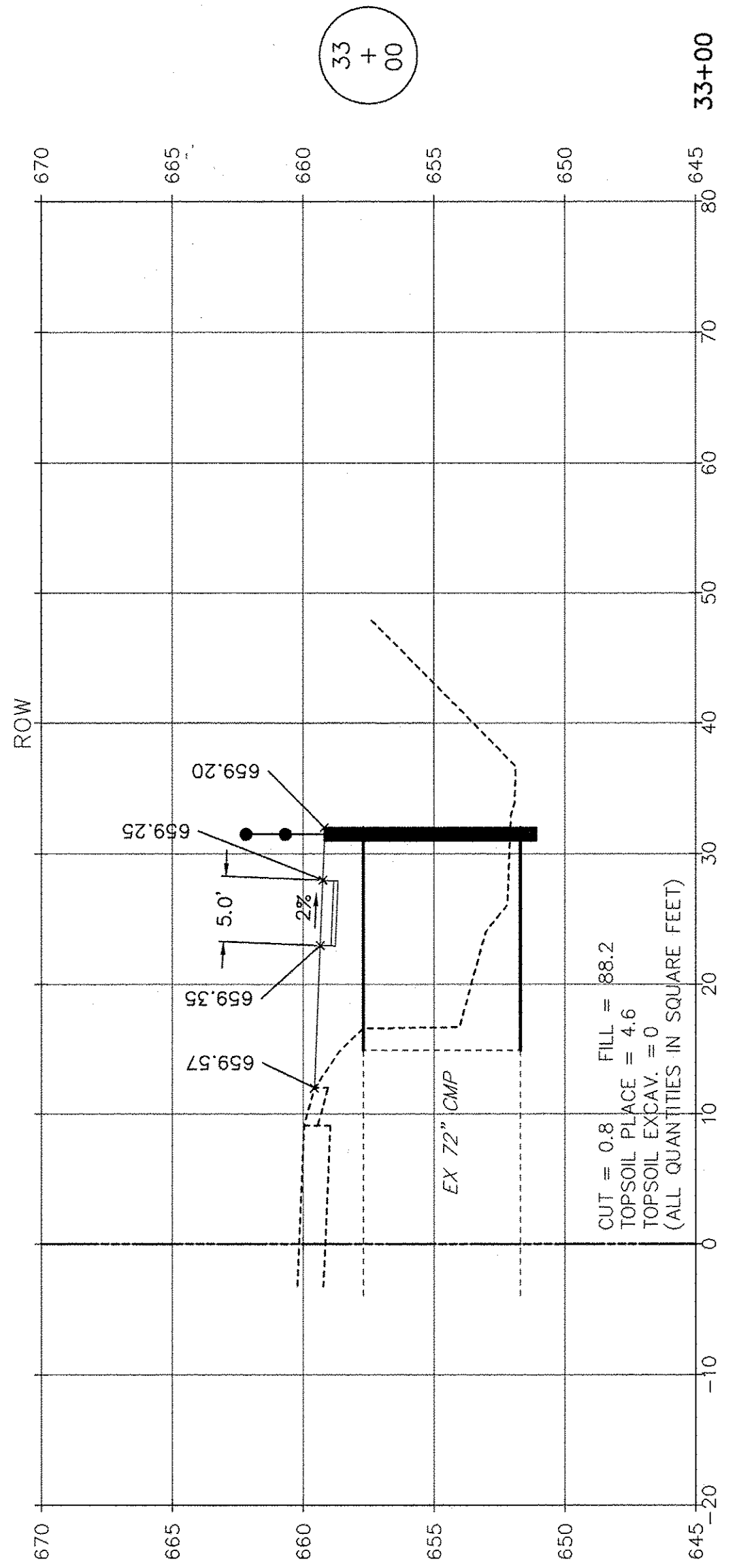
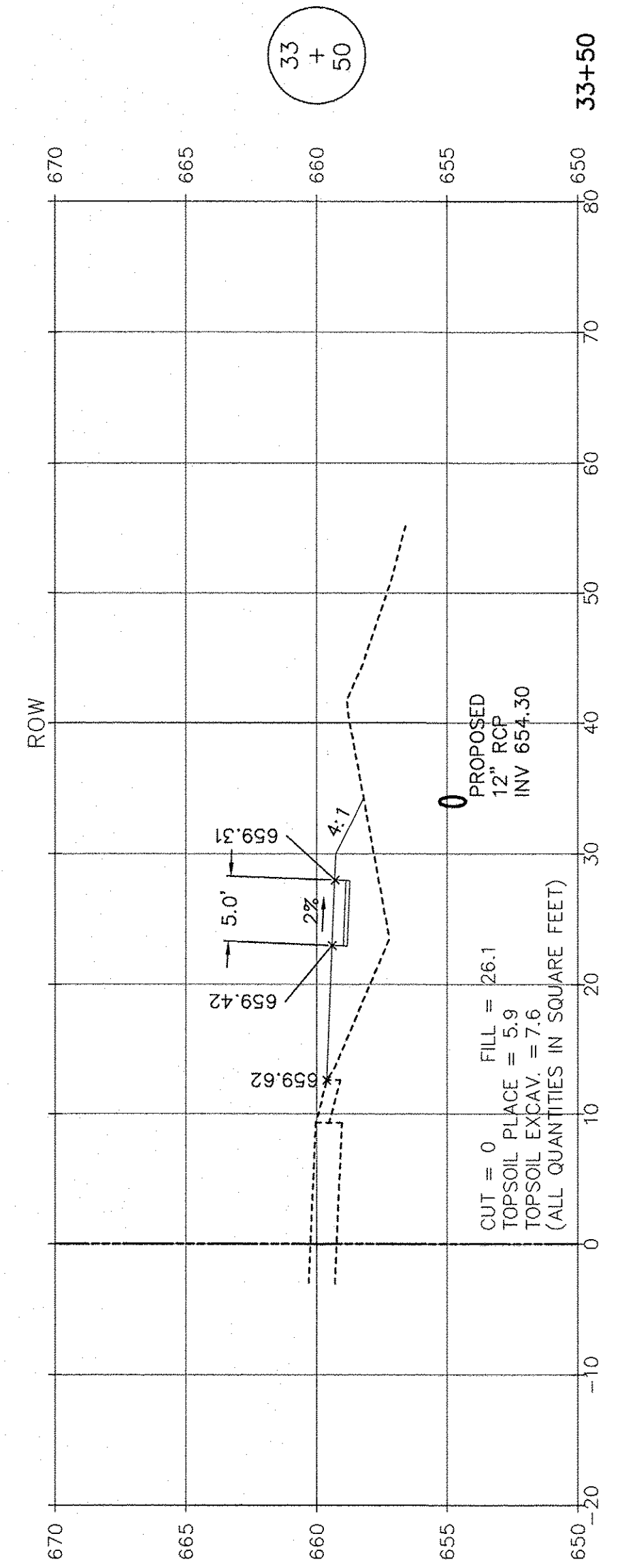
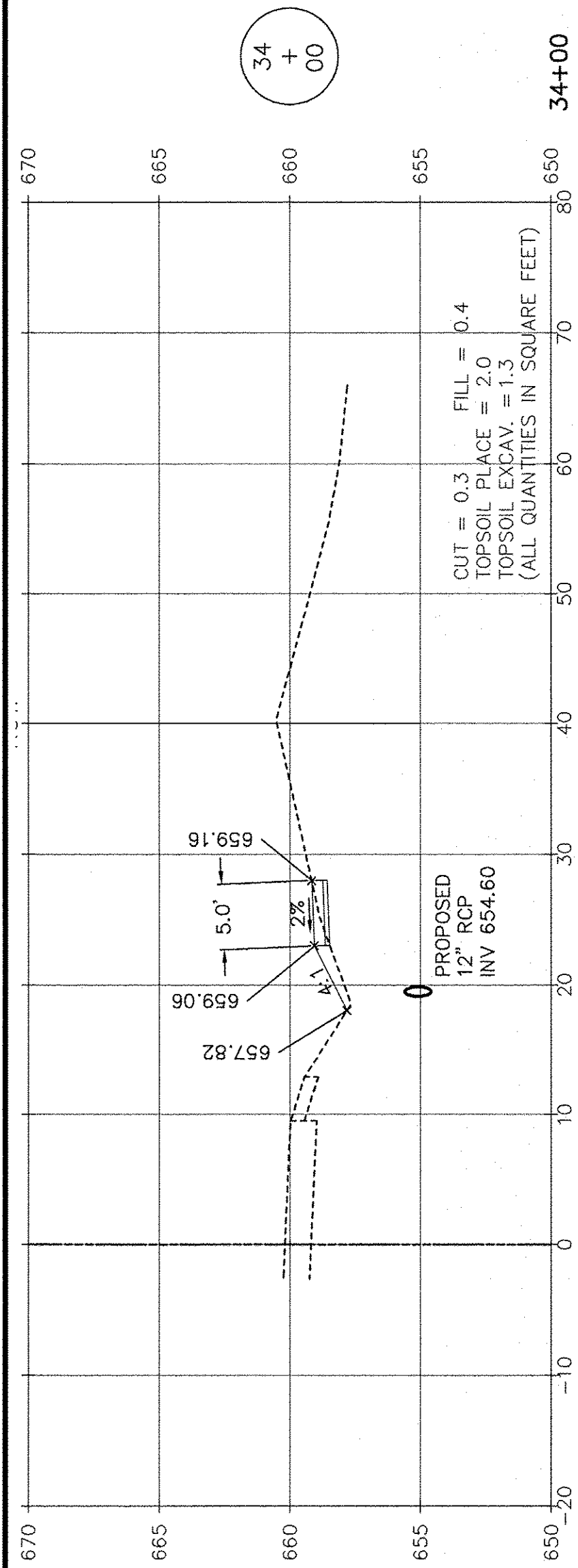
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		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

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

**DIVISION STREET - CROSS SECTIONS**  
**BRIGGS STREET, DIVISION STREET AND FARRELL ROAD**

SCALE: AS NOTED    SHEET NO. 6 OF 15 SHEETS    STA. 23+00 TO STA. 25+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	72
		CONTRACT NO. 61D48		
ILLINOIS FEDERAL AID PROJECT				



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

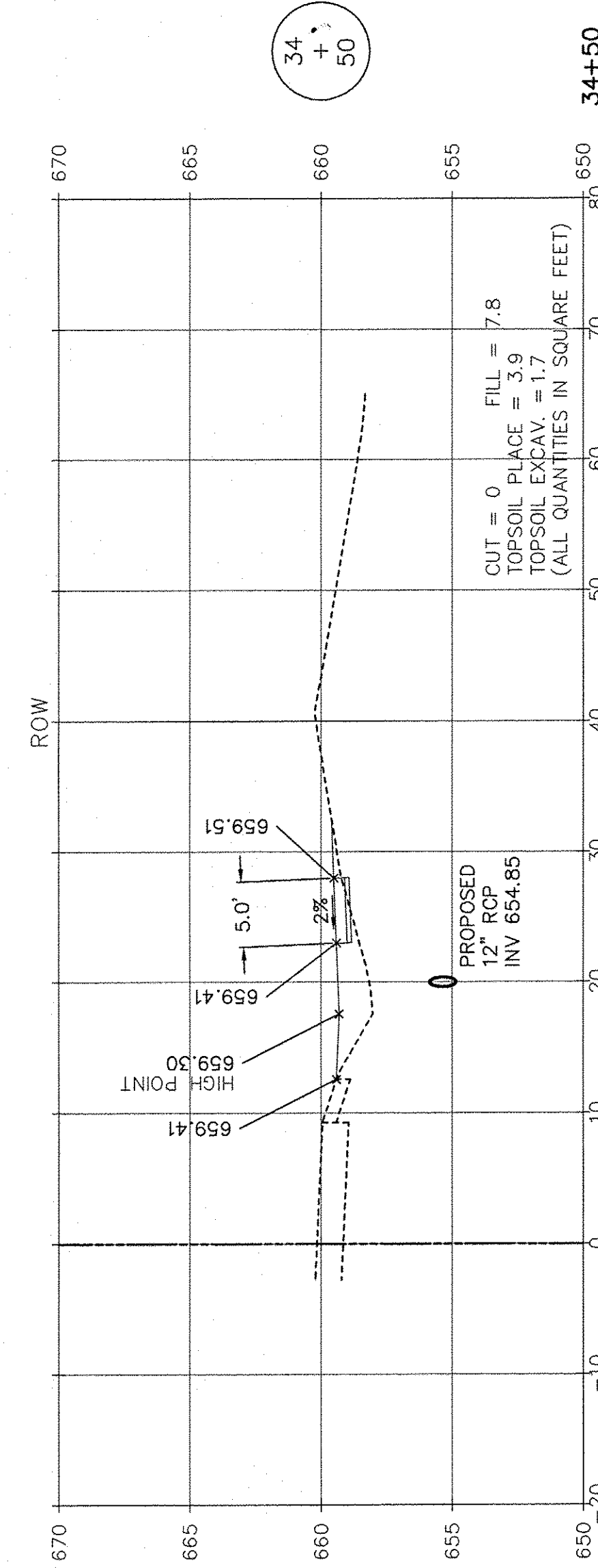
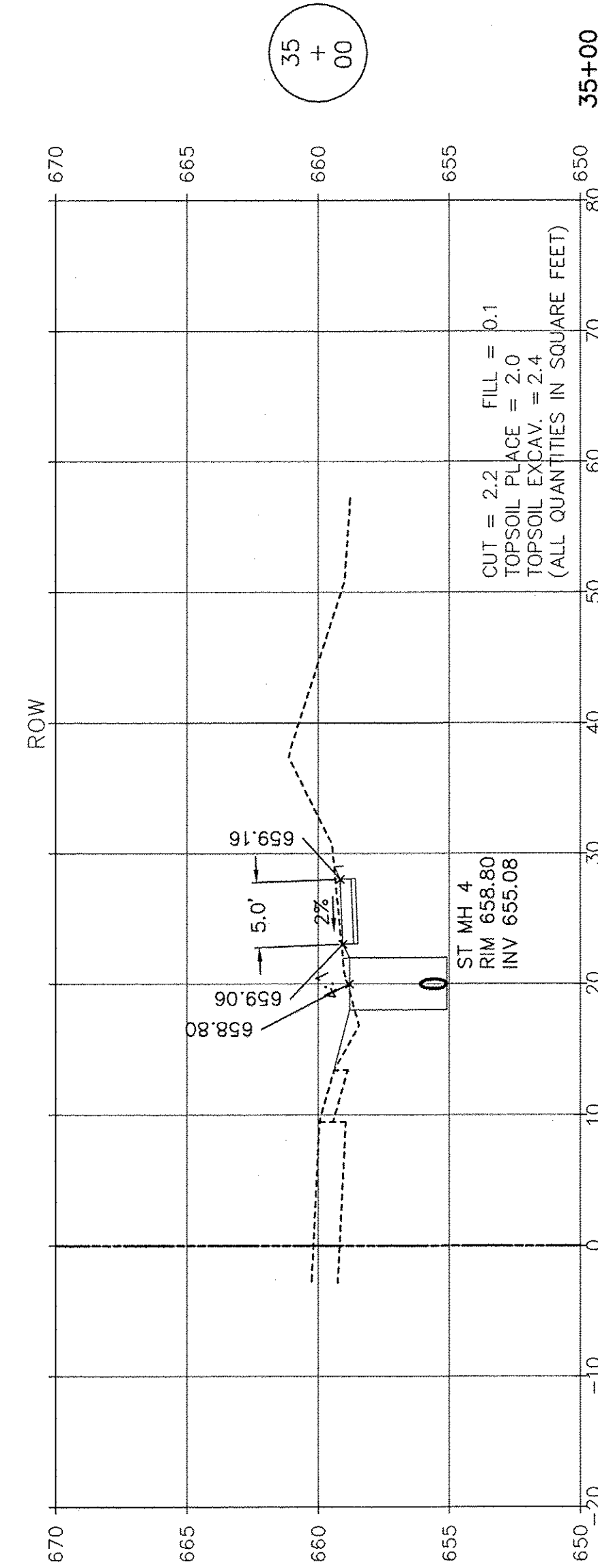
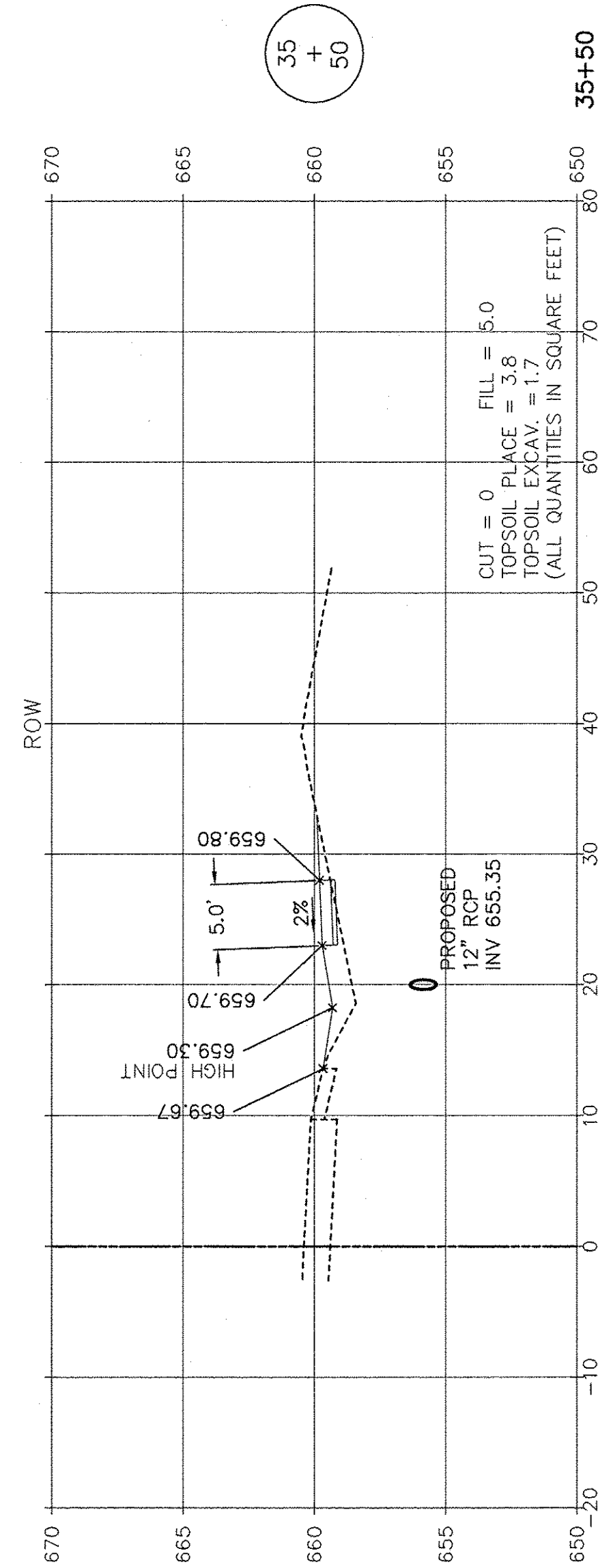
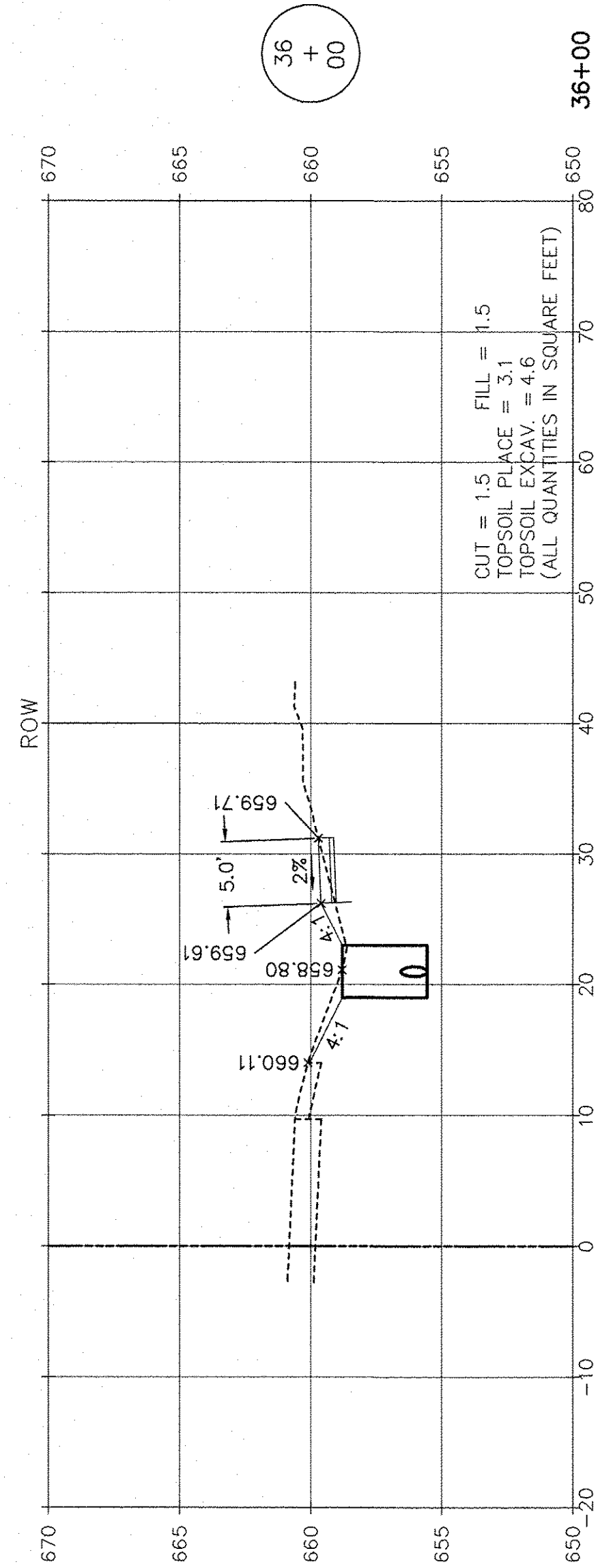
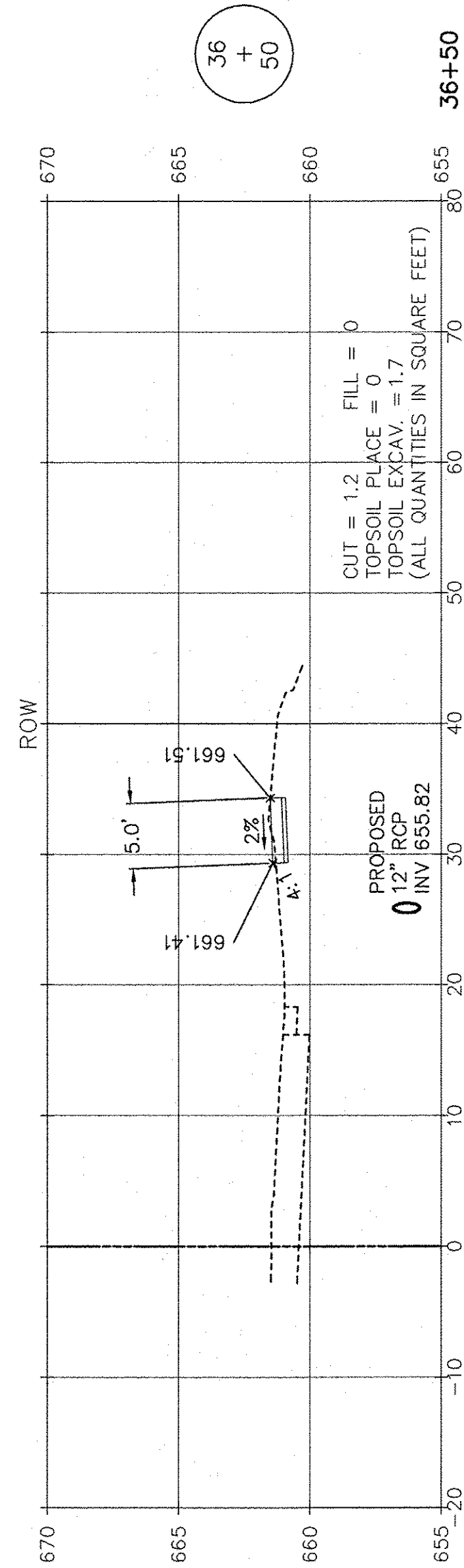
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	73
		CONTRACT NO. 61D48		
ILLINOIS FEDERAL AID PROJECT				

SCALE: AS NOTED SHEET NO. 7 OF 15 SHEETS STA. 32+00 TO STA. 34+00

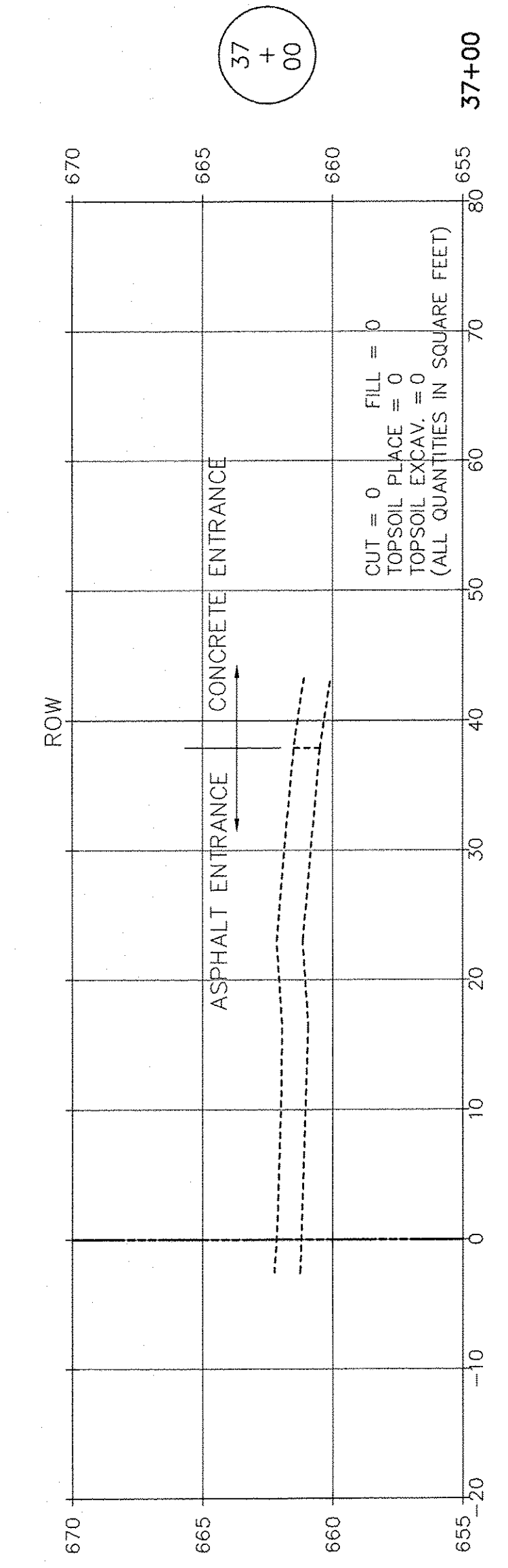
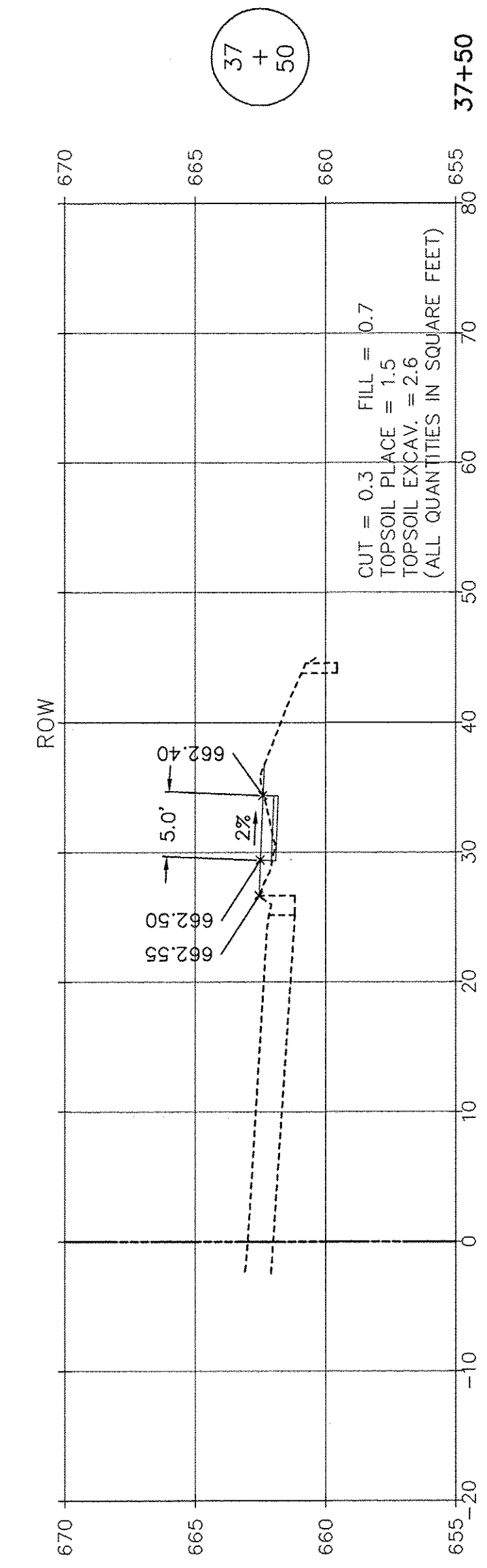
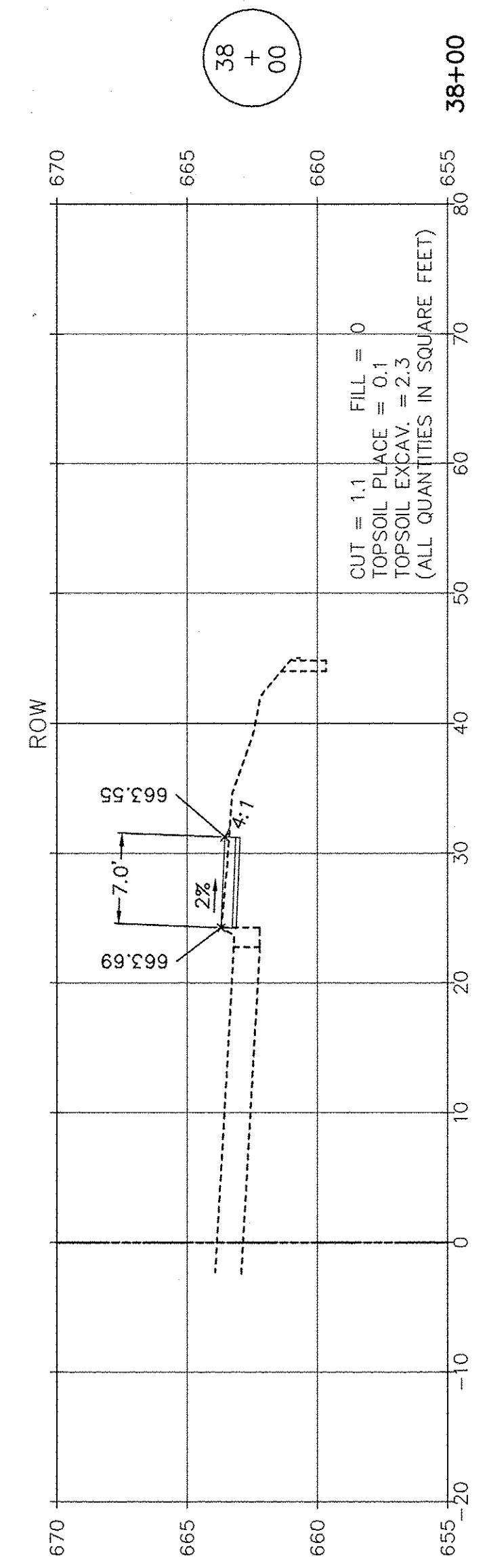
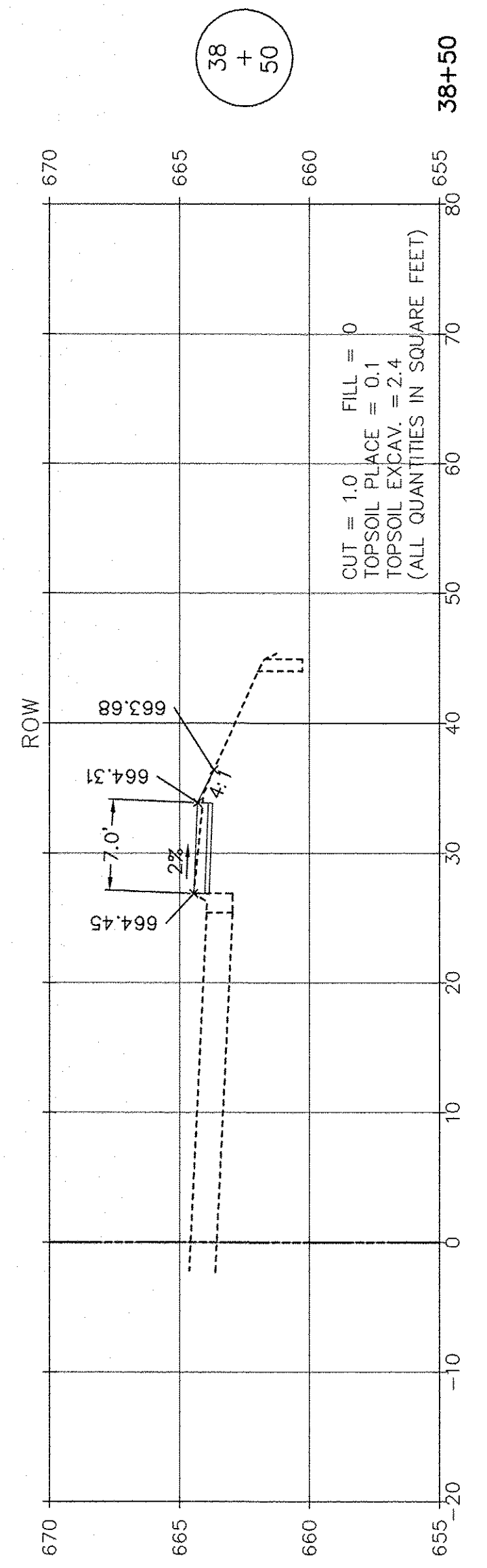
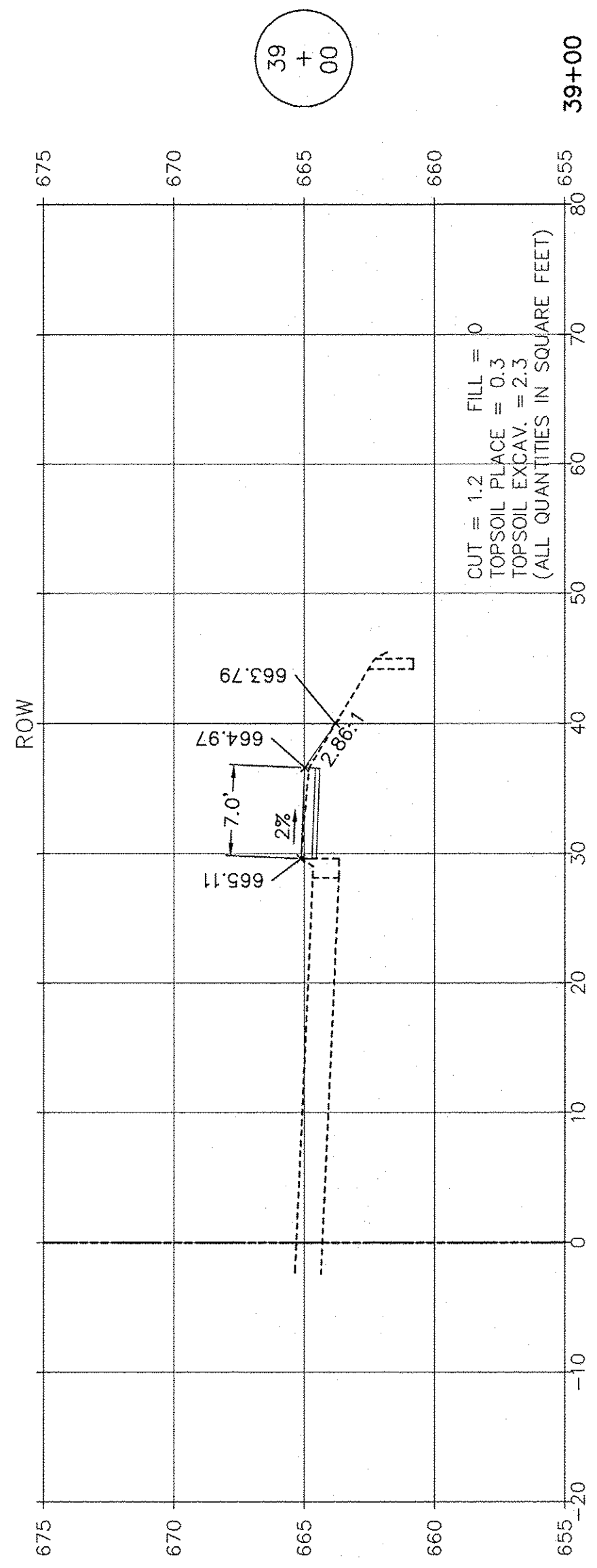




SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 74	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: AS NOTED	SHEET NO. 8 OF 15 SHEETS	STA. 34+50 TO STA. 36+50	ILLINOIS FEDERAL AID PROJECT				
	PLOT DATE =	CHECKED JPH @ RTA	REVISED									
		DATE 7-30-2015	REVISED									



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

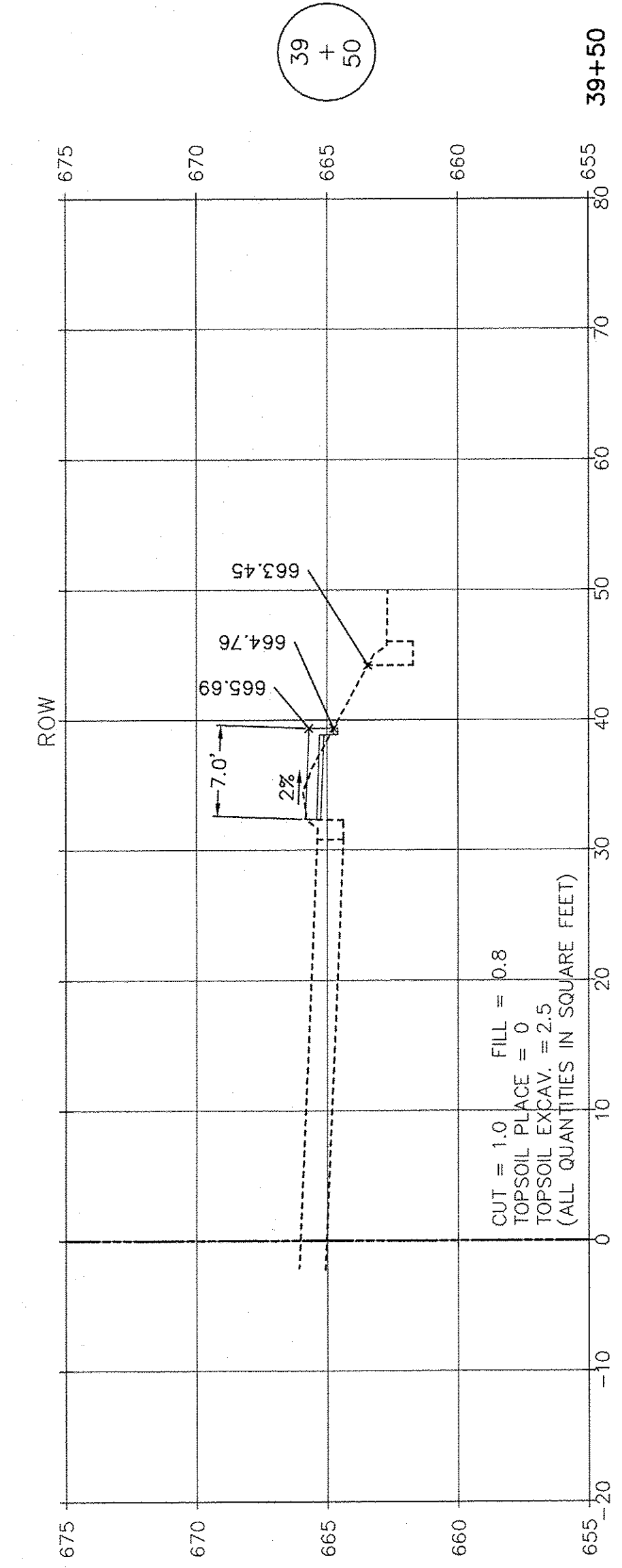
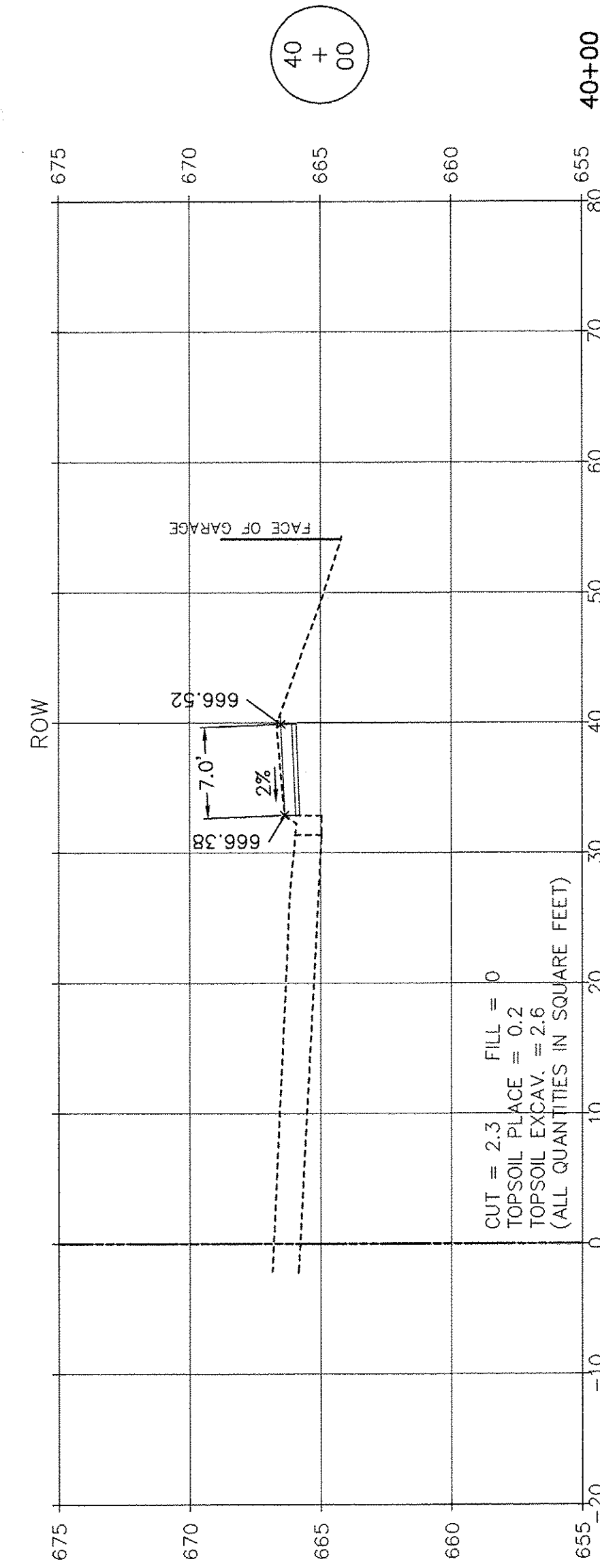
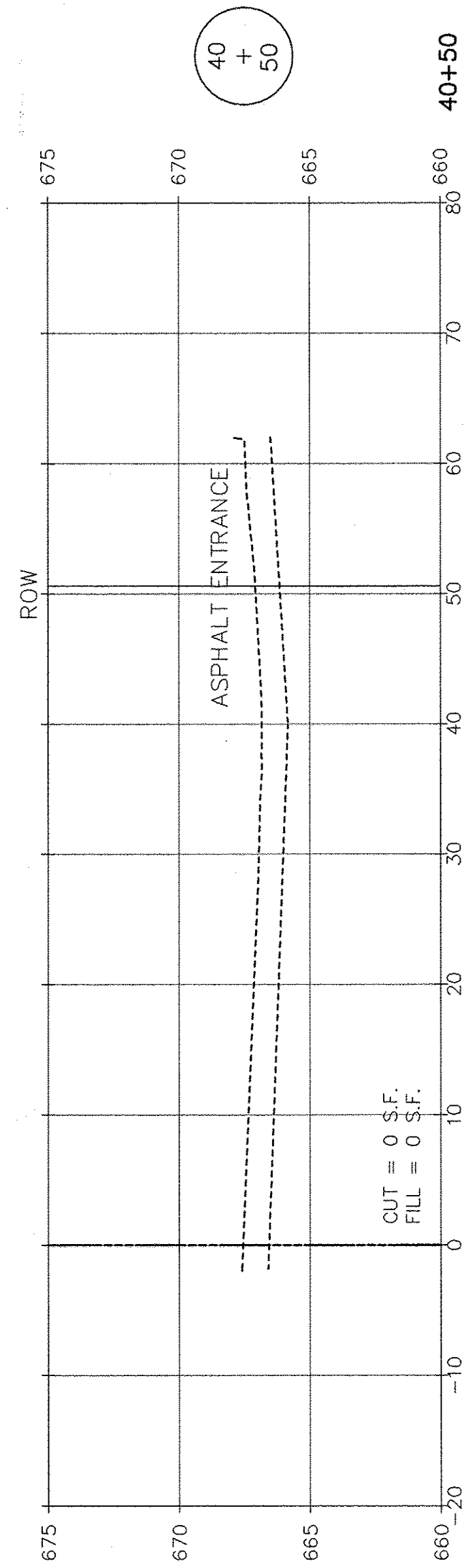
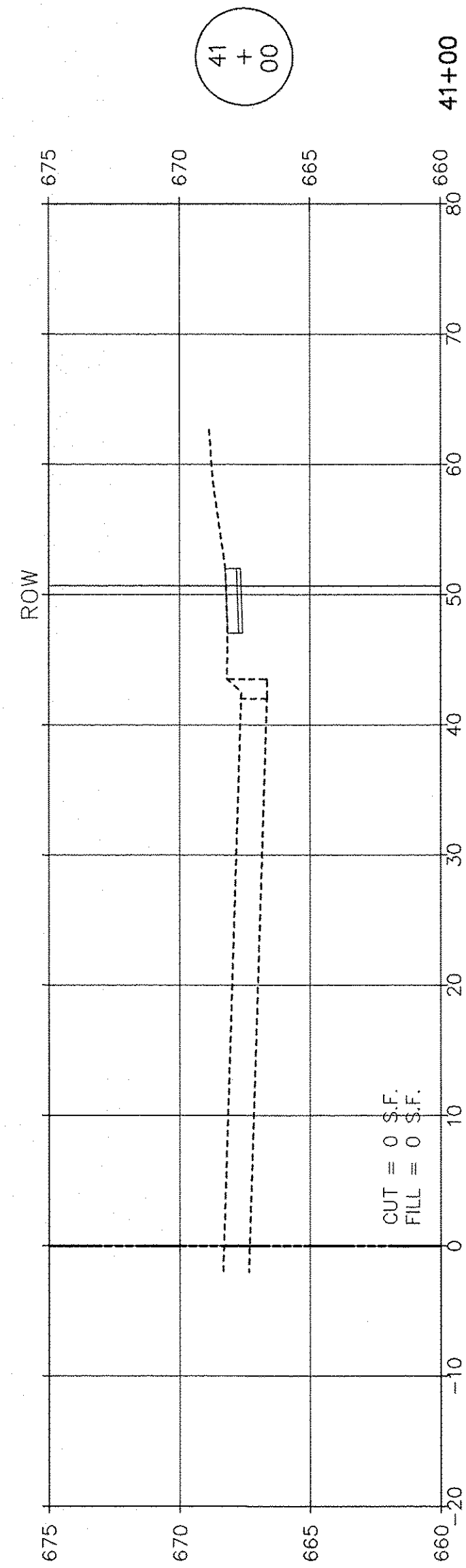
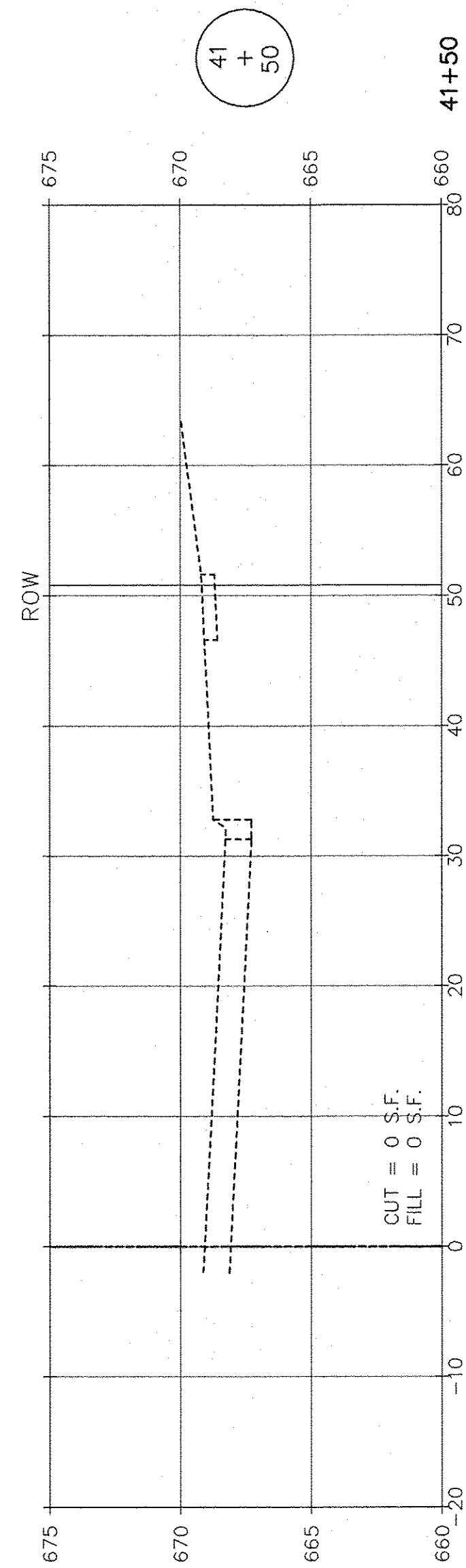
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

SCALE: AS NOTED SHEET NO. 9 OF 15 SHEETS STA. 37+00 TO STA. 39+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	75
		CONTRACT NO. 61D48		
ILLINOIS FEDERAL AID PROJECT				





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

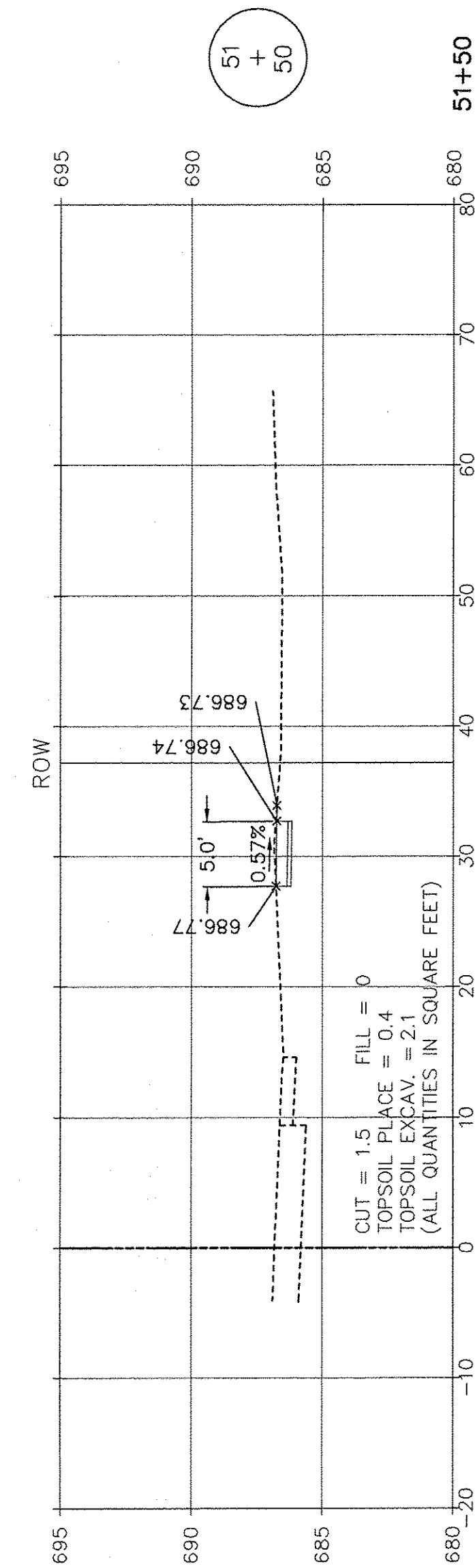
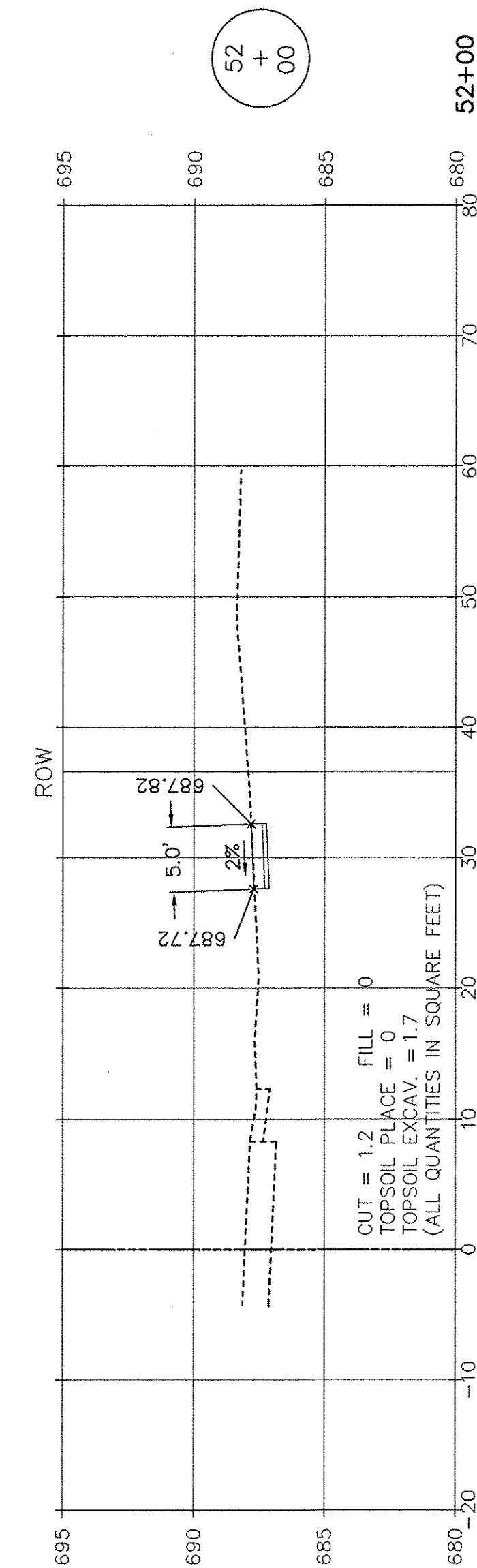
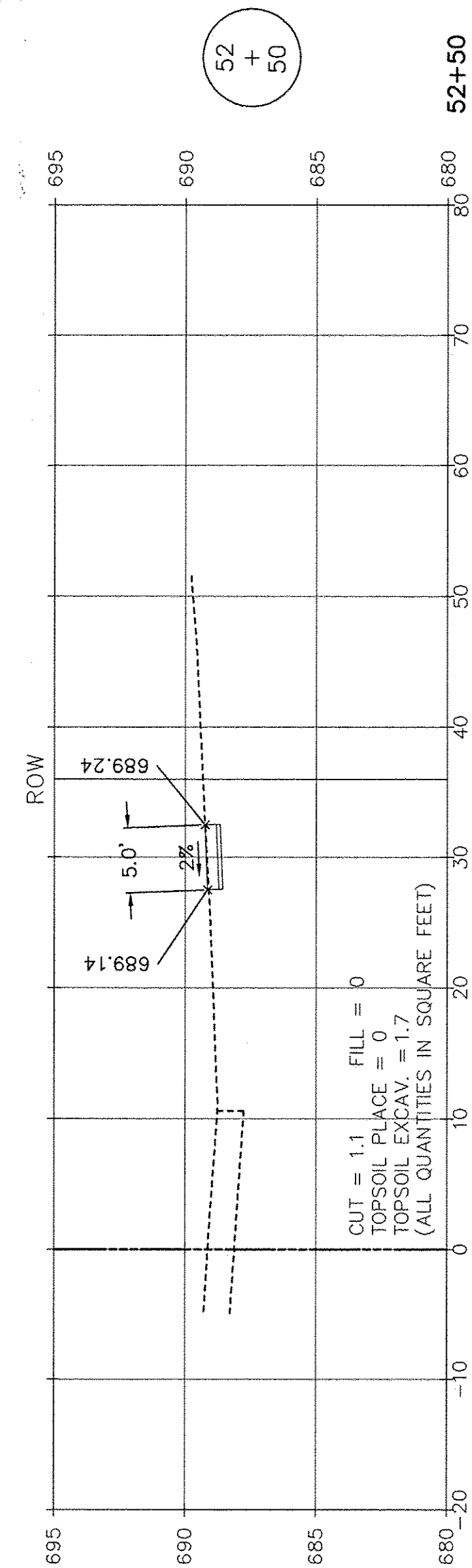
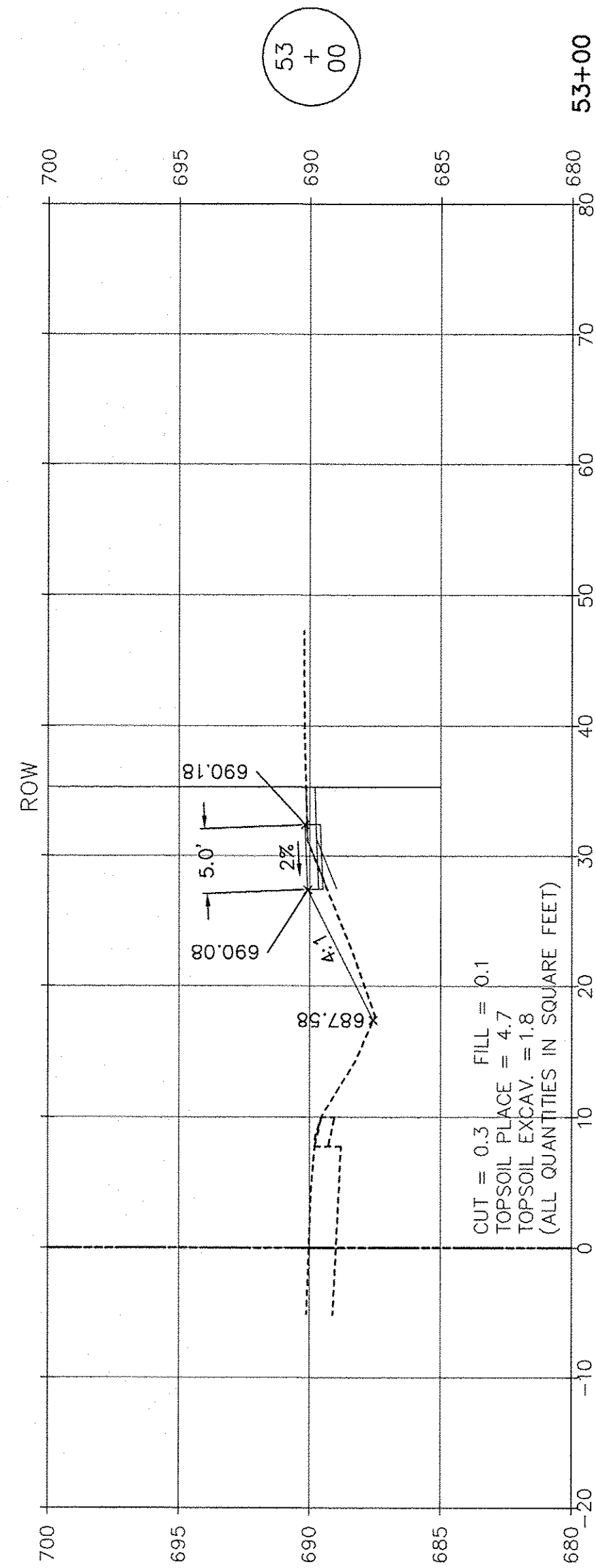
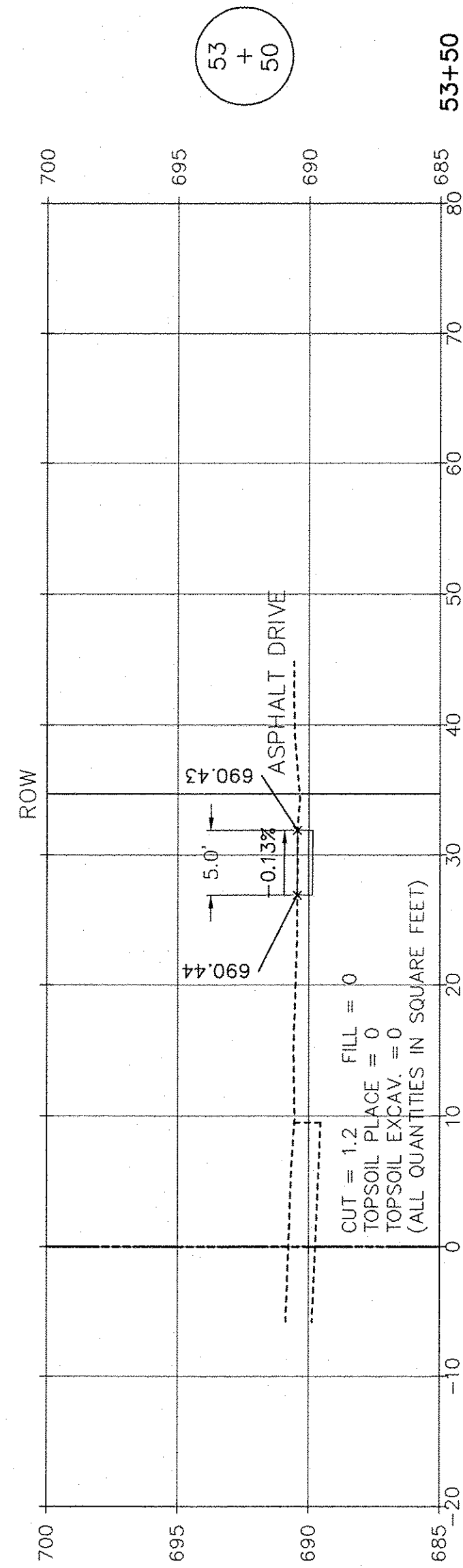
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		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

SCALE: AS NOTED	SHEET NO. 10 OF 15 SHEETS	STA. 39+50 TO STA. 41+50
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	76
			CONTRACT NO. 61D48	
ILLINOIS FEDERAL AID PROJECT				



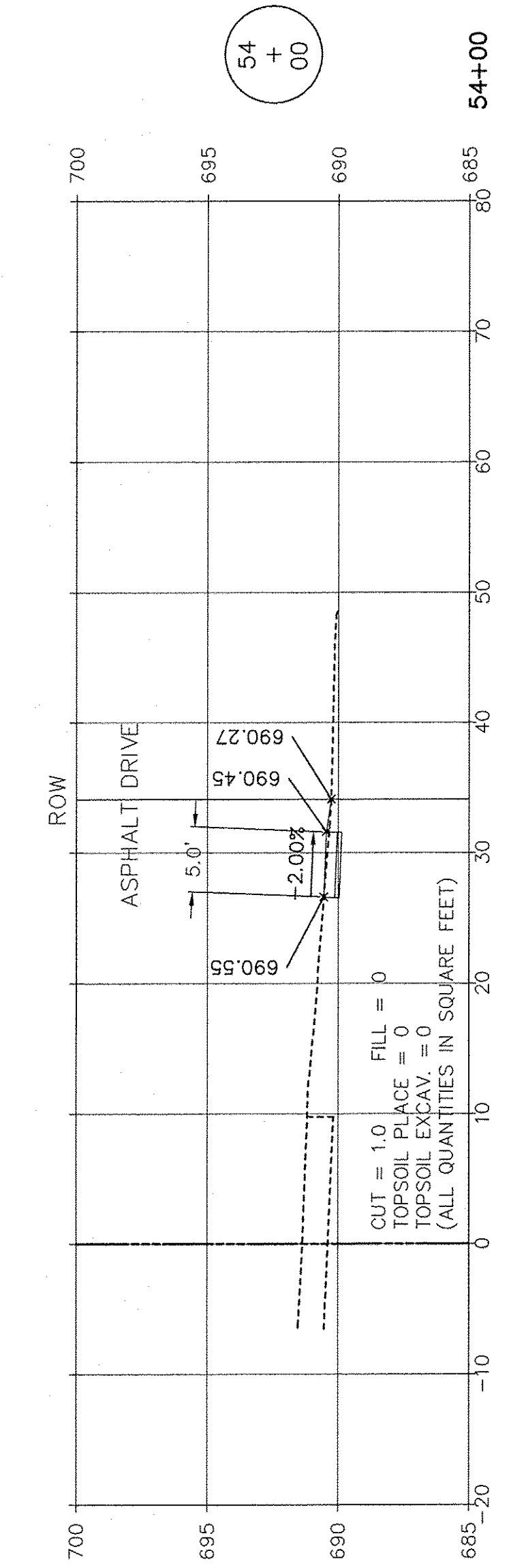
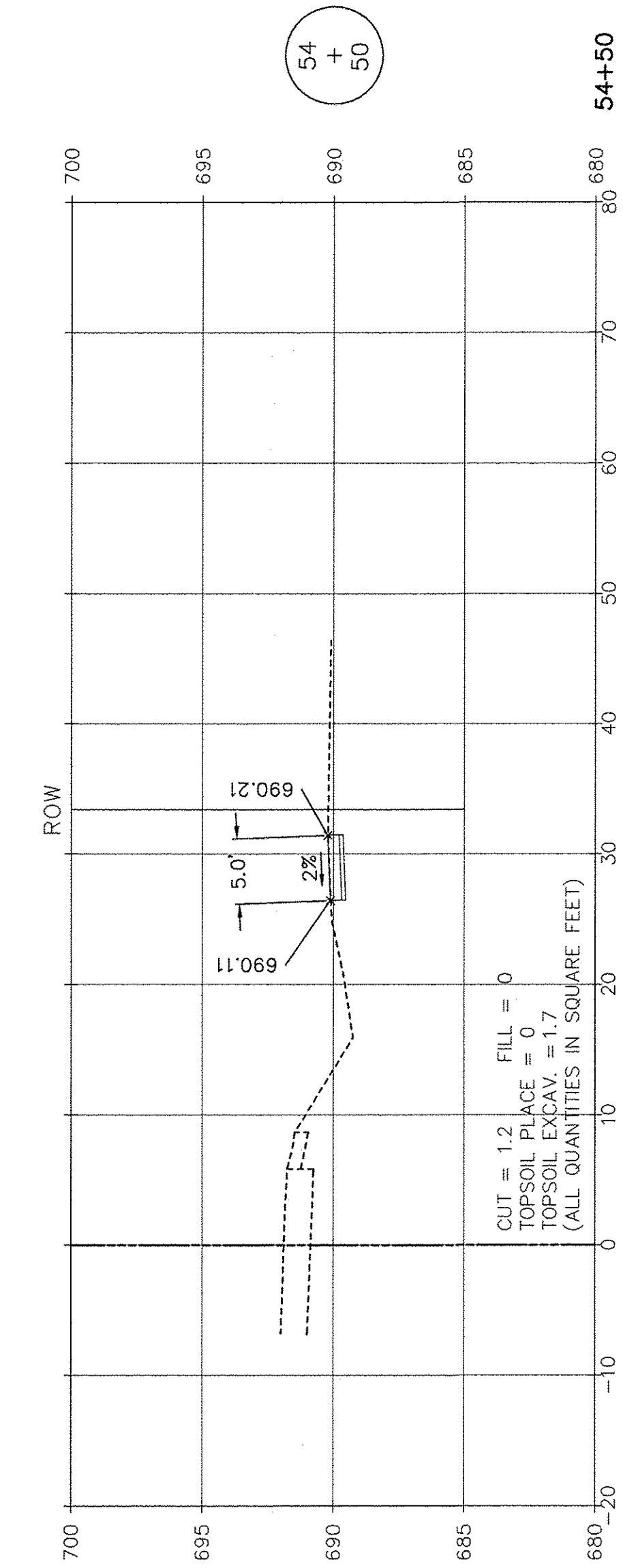
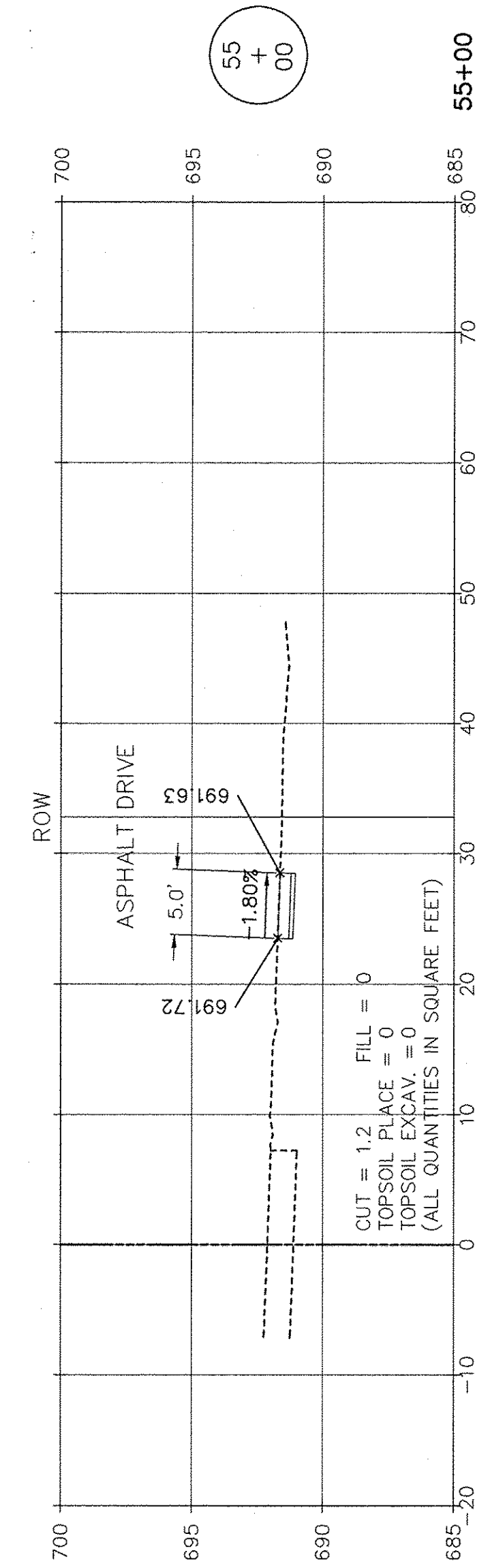
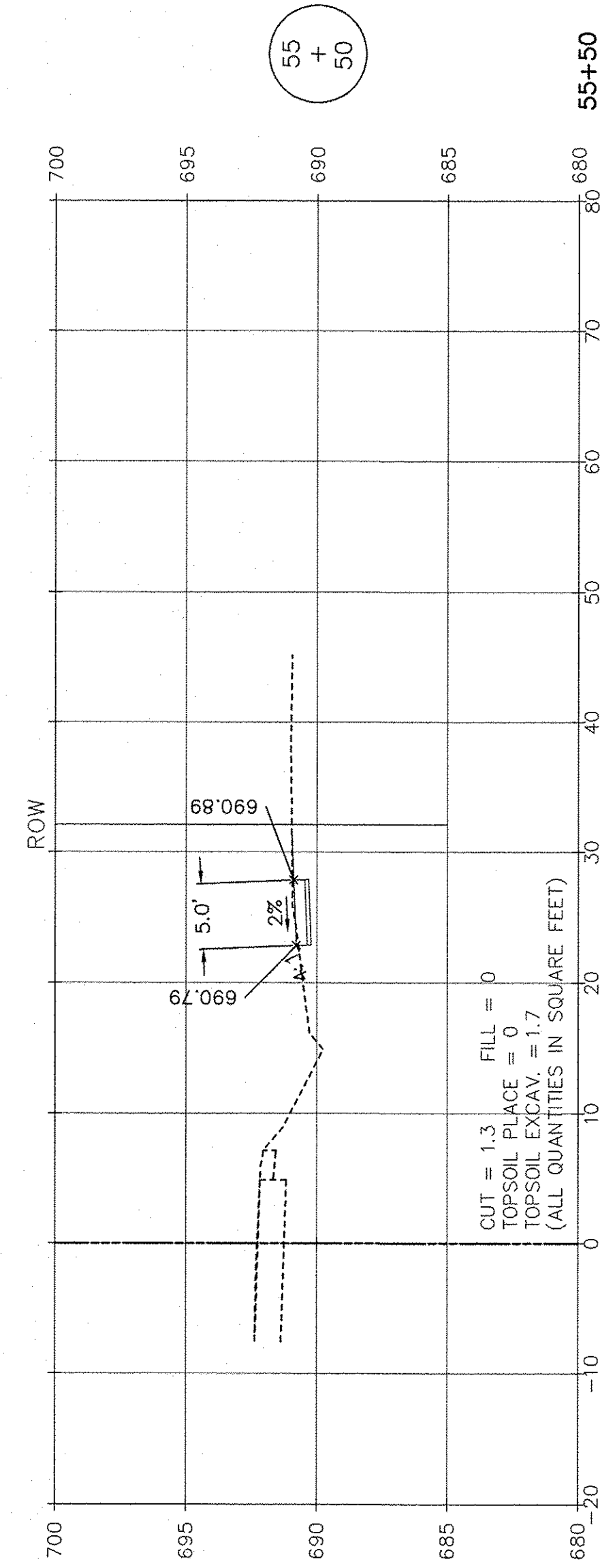
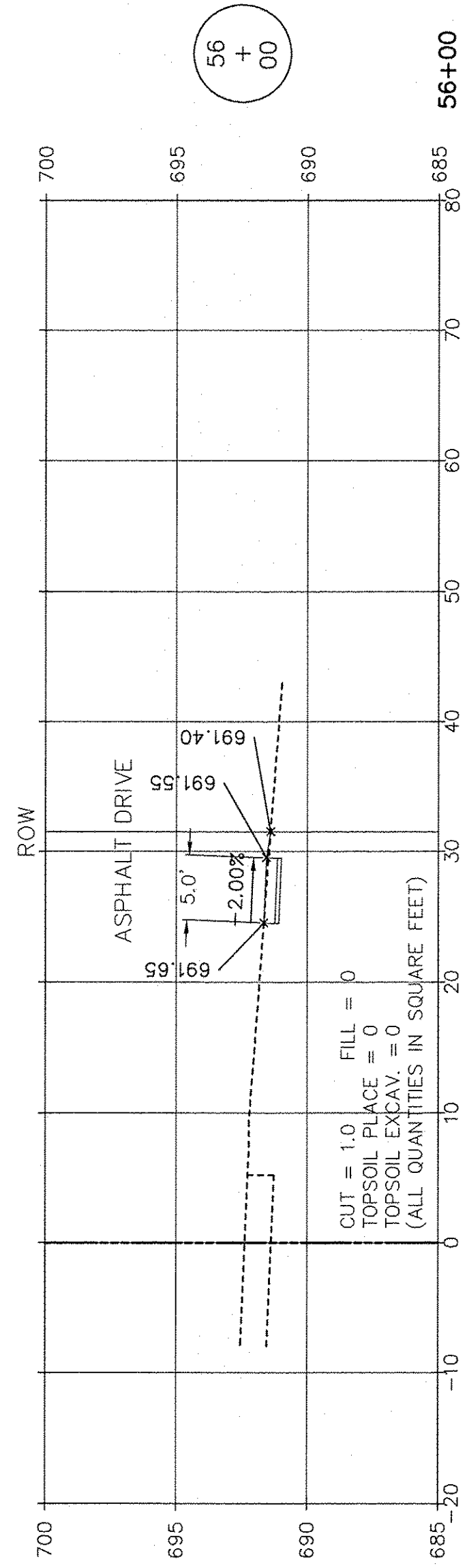
SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME =	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		363 / 291 / 366	10-00072-00-BT	WILL	93	77		
	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: AS NOTED SHEET NO. 11 OF 15 SHEETS STA. 51+50 TO STA. 53+50		ILLINOIS FEDERAL AID PROJECT		CONTRACT NO. 61D48		
		DATE 7-30-2015	REVISED								





SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 LATEST R.T. & A. REVISION: 8-16-2016 **R.T. & A. Dwg. No.: 310-1076-C2**  
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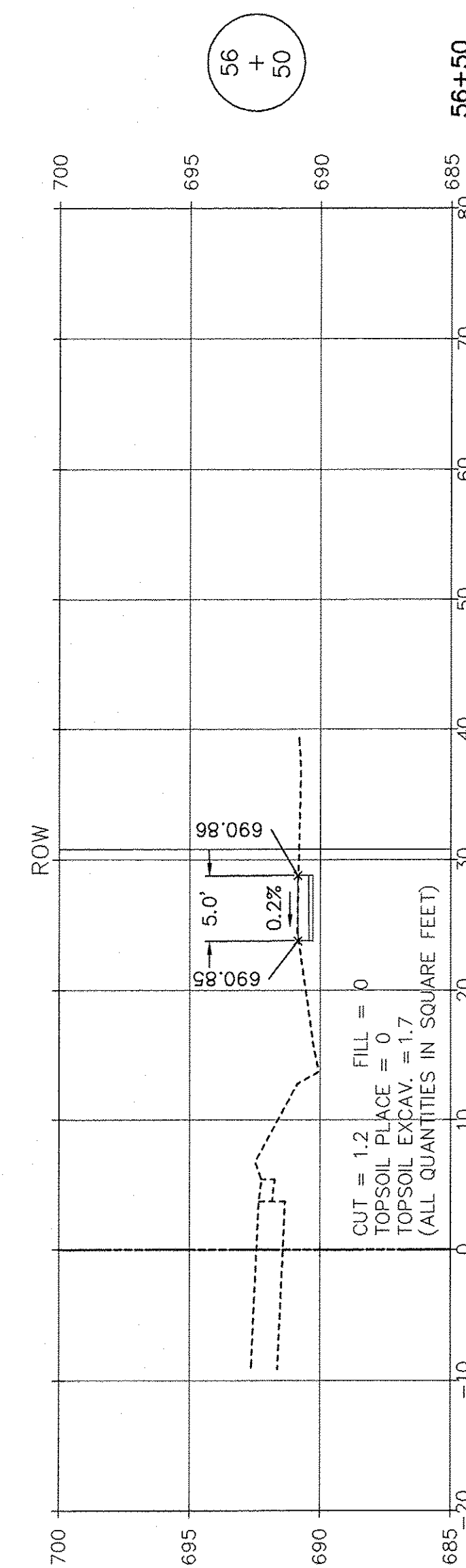
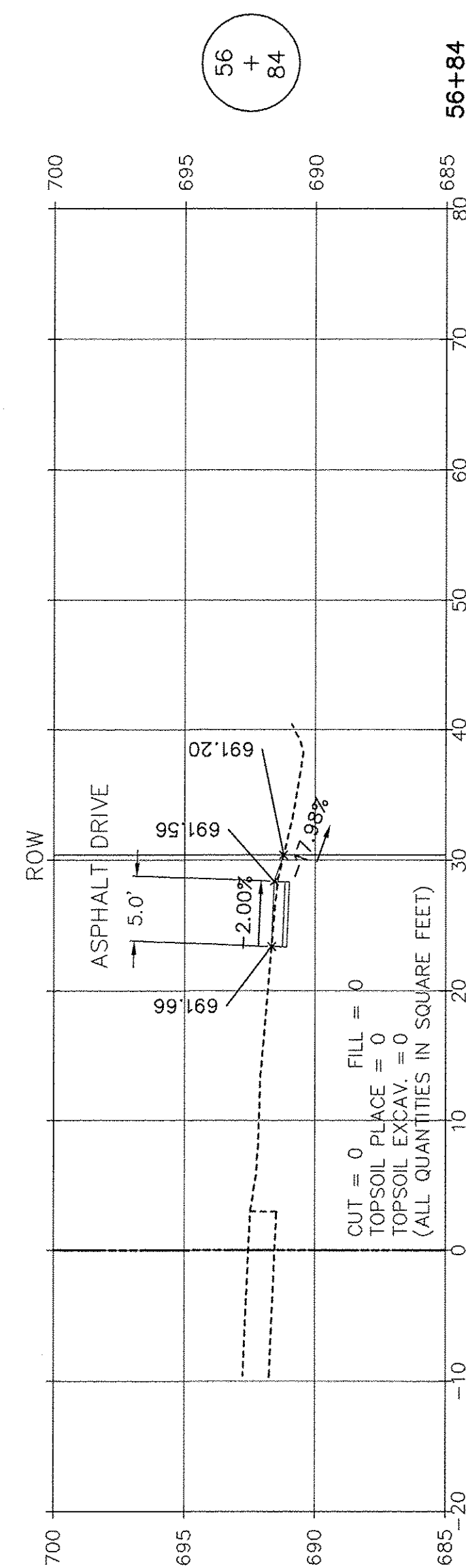
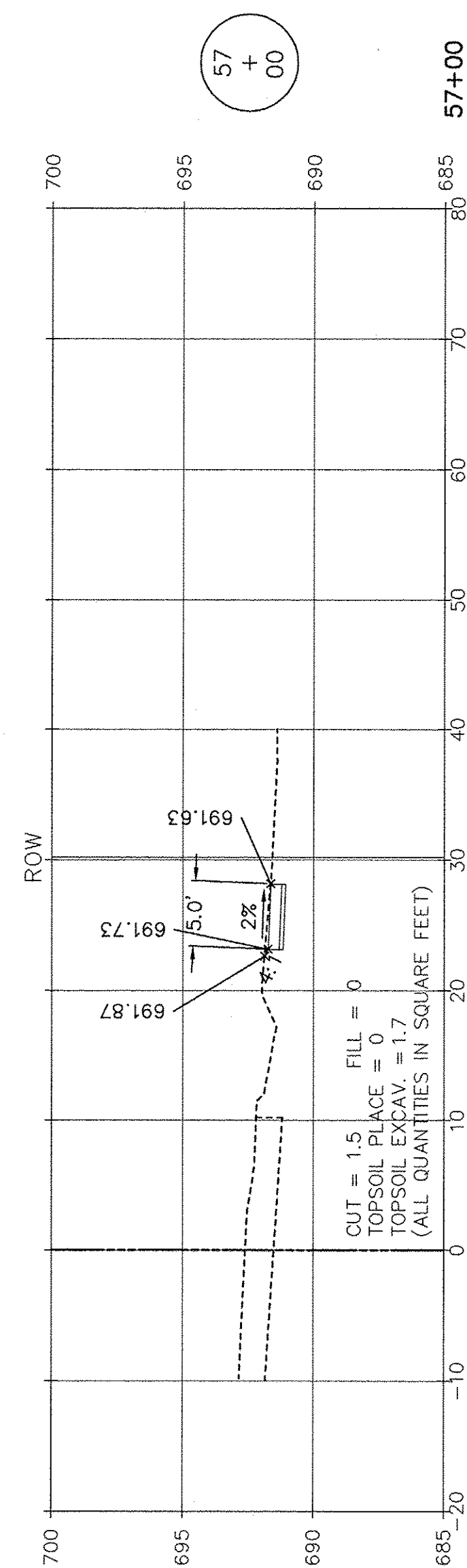
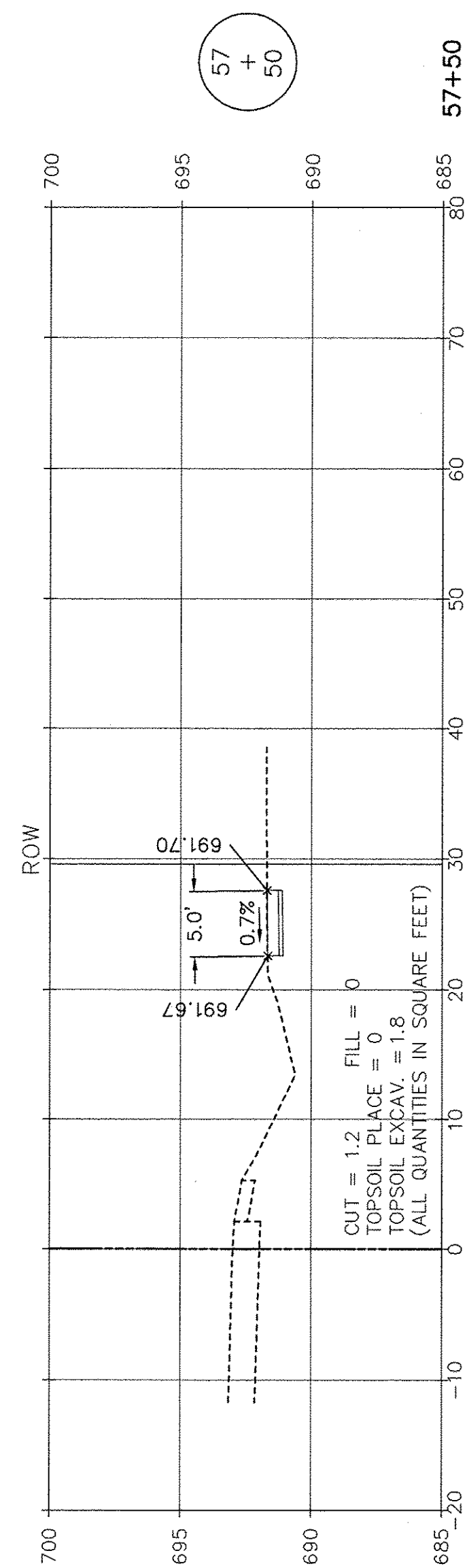
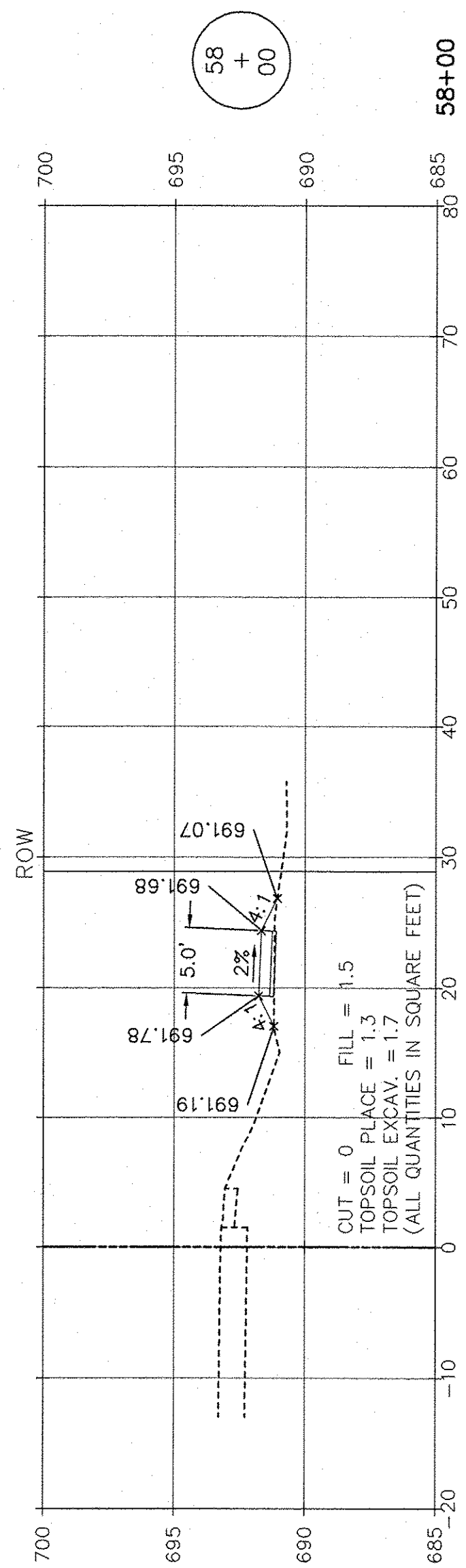
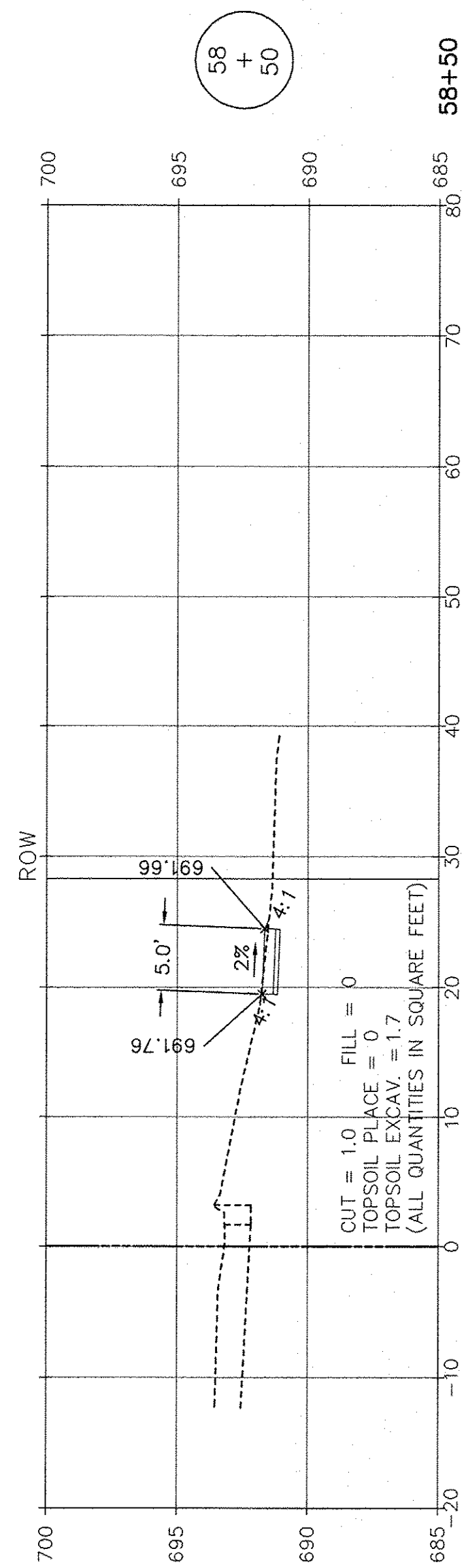
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	78
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	

SCALE: AS NOTED SHEET NO. 12 OF 15 SHEETS STA. 54+00 TO STA. 56+00



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
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	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

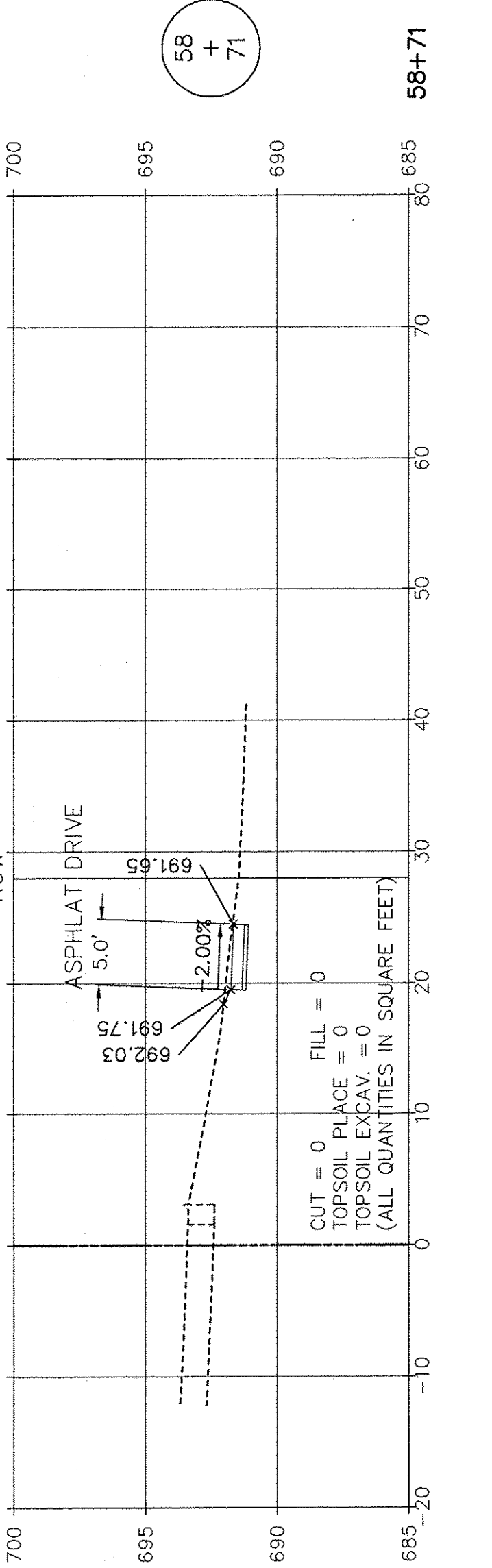
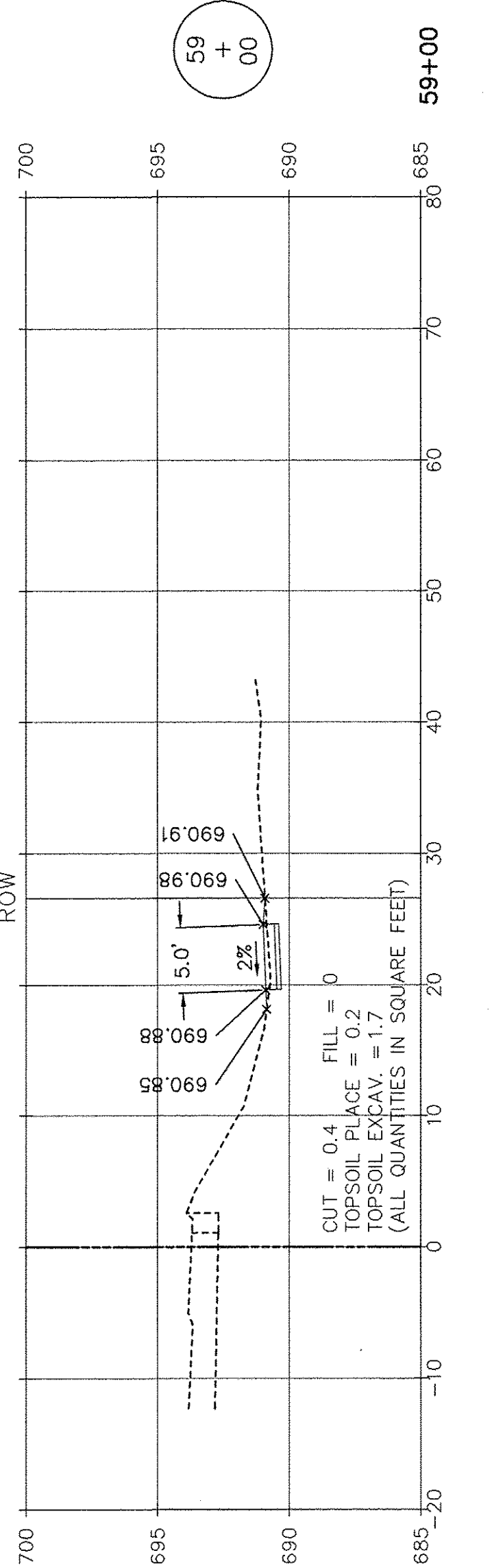
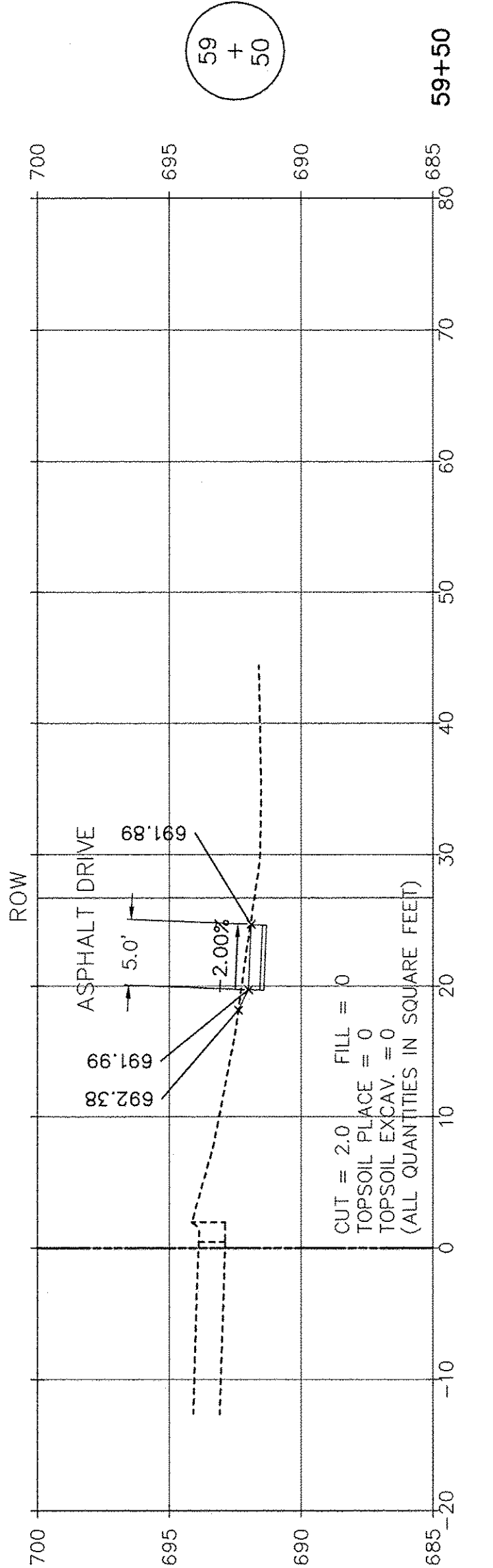
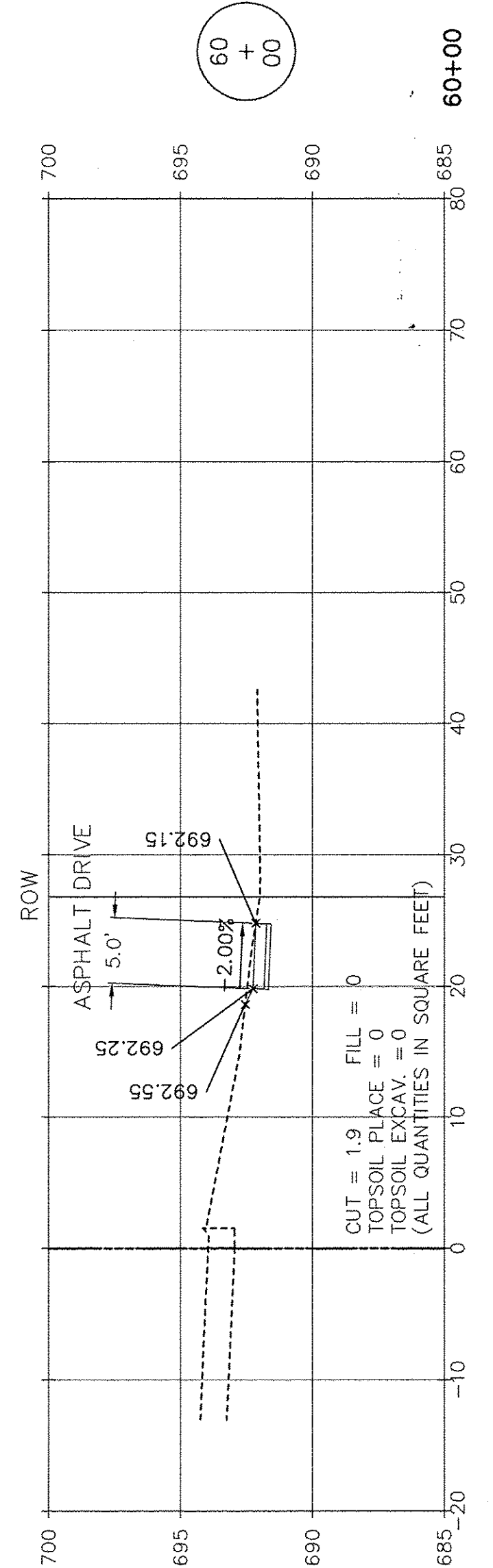
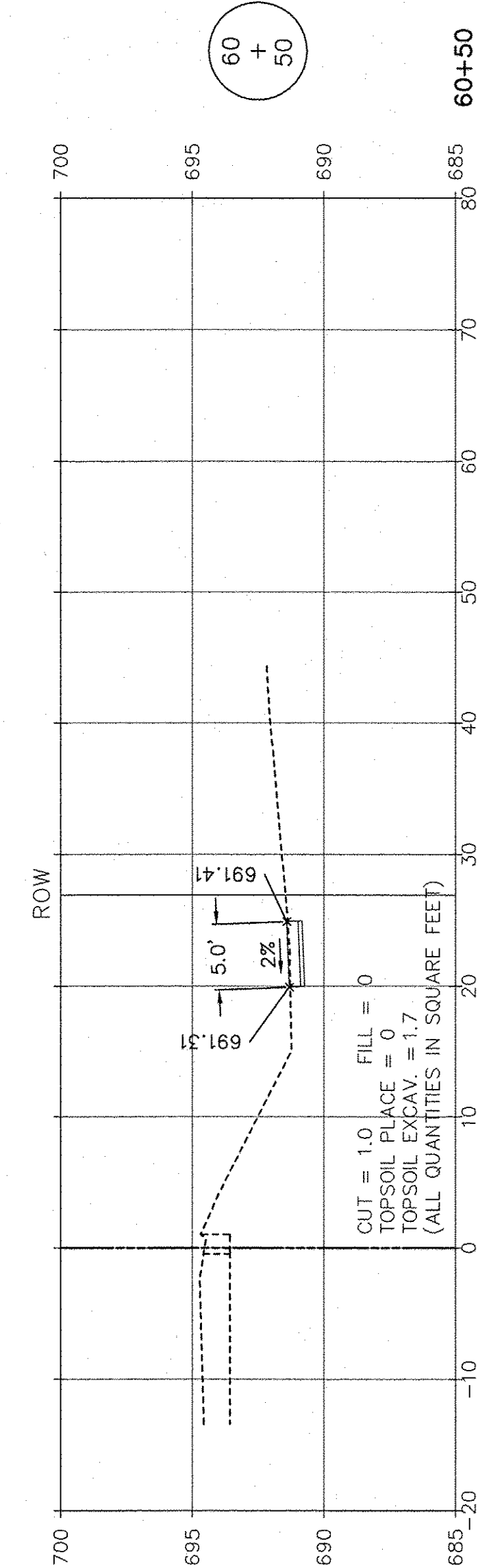
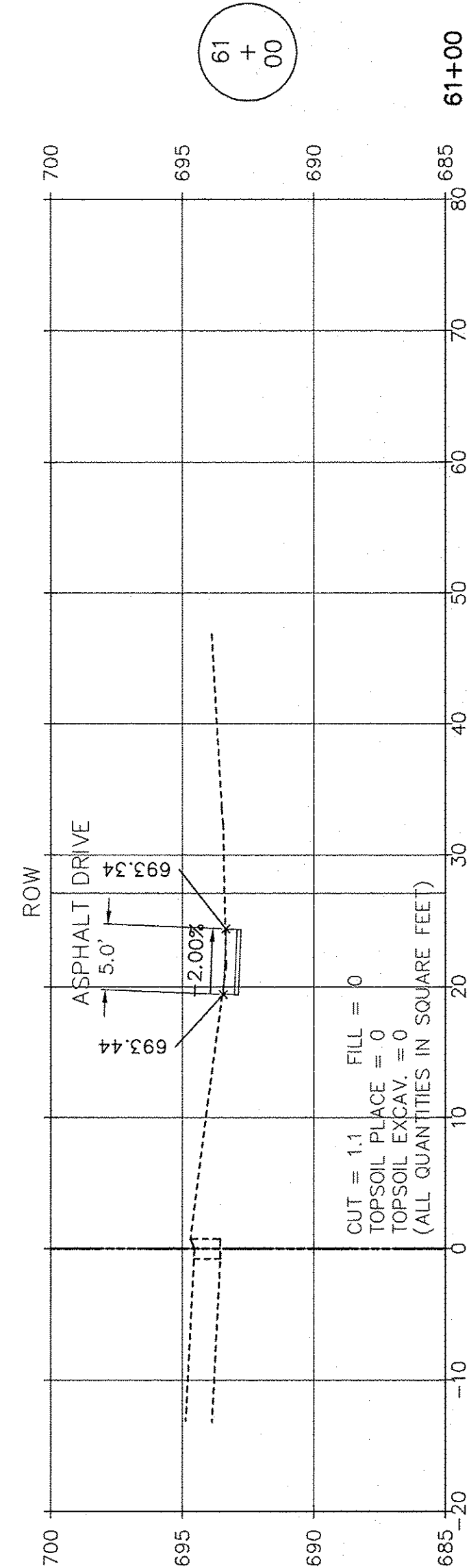
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION STREET - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

SCALE: AS NOTED SHEET NO. 13 OF 15 SHEETS STA. 56+50 TO STA. 58+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	79
CONTRACT NO. 61D48			ILLINOIS FEDERAL AID PROJECT	

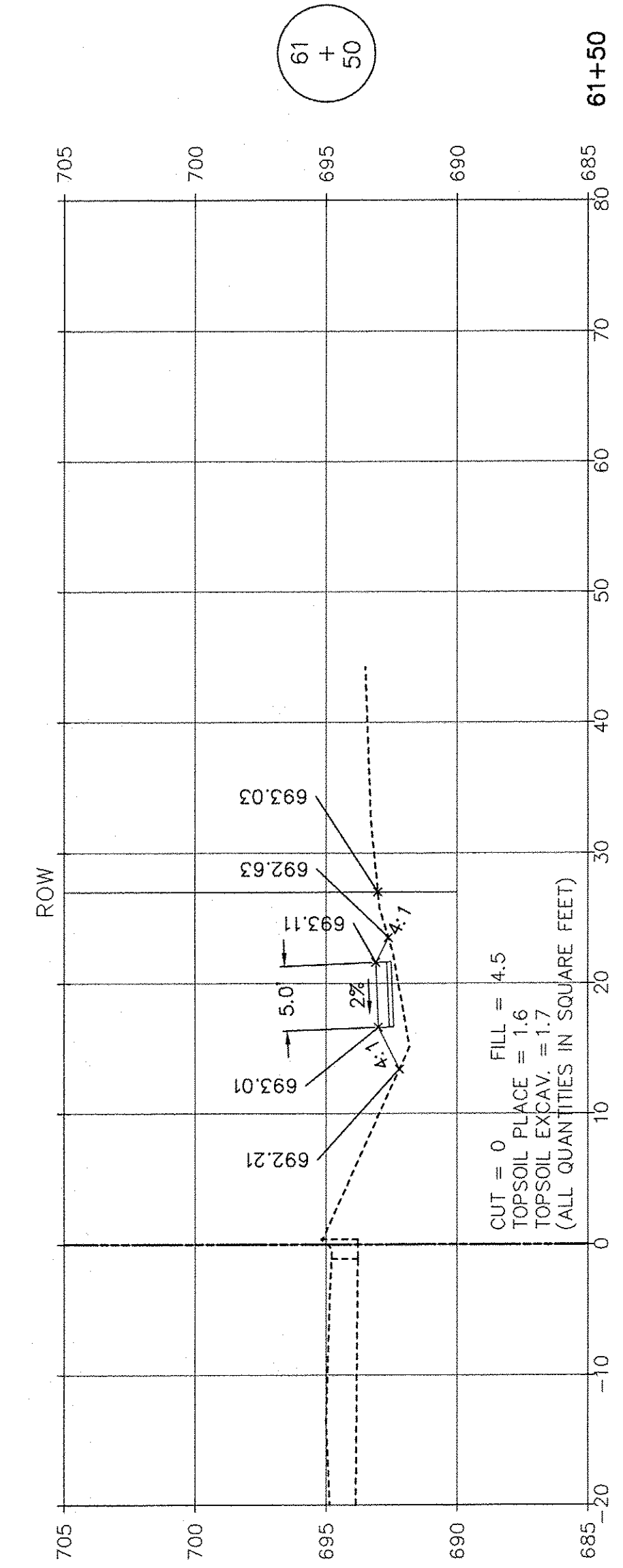
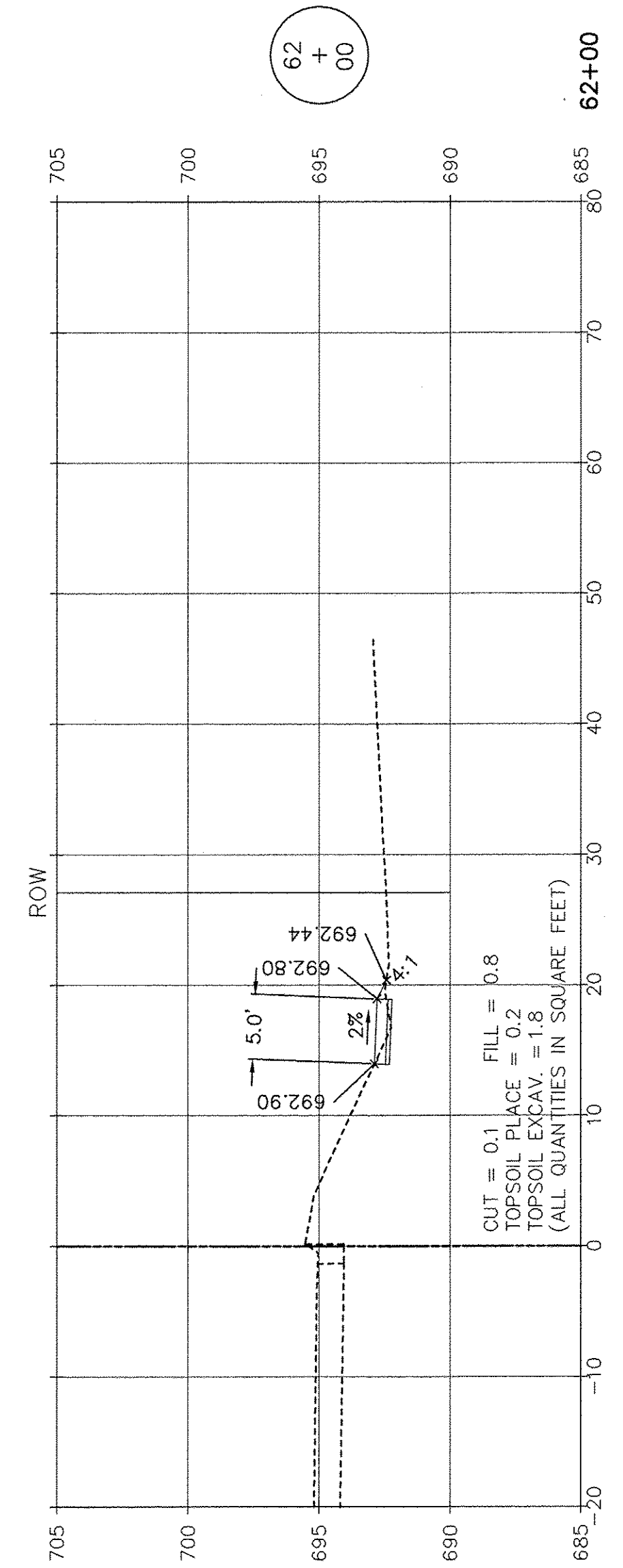
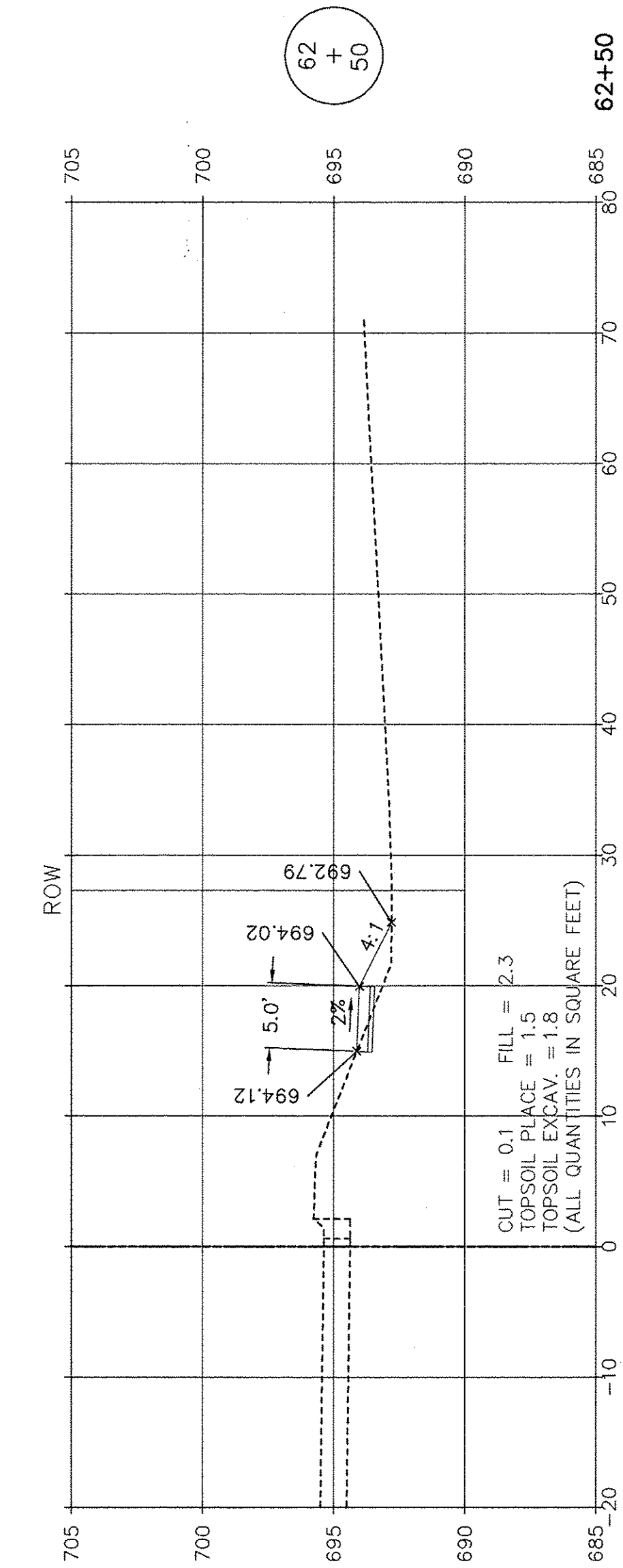
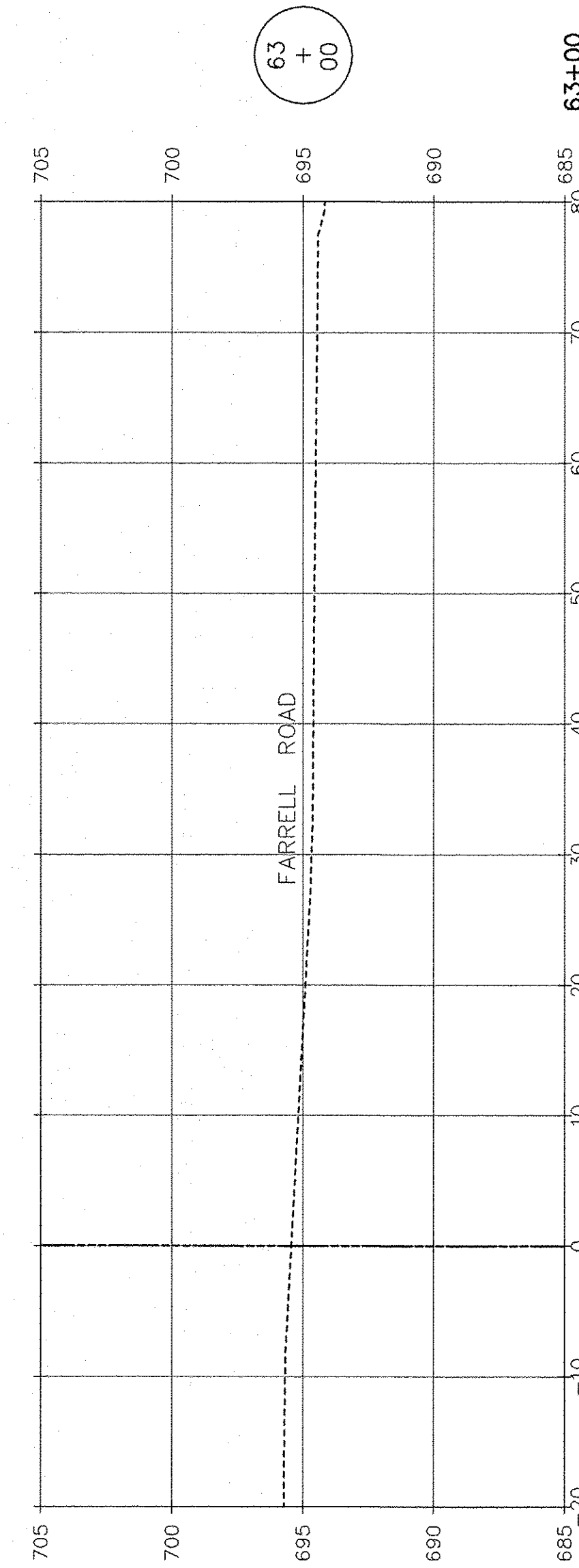
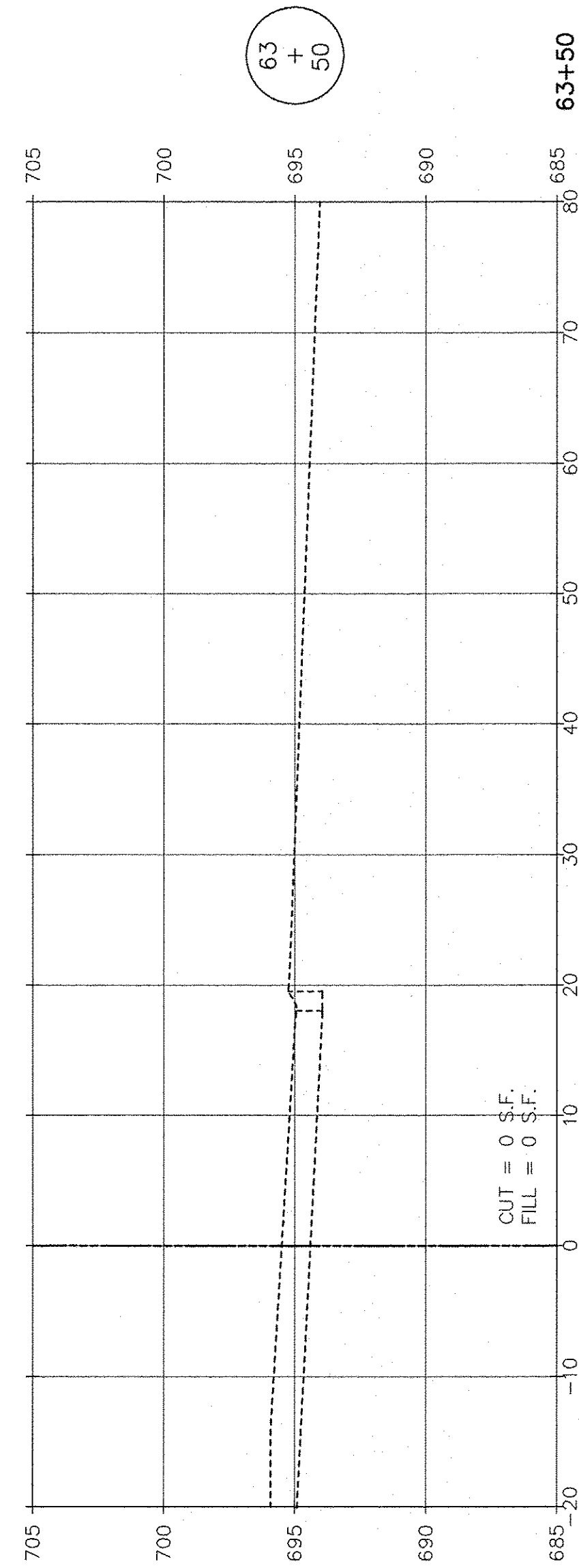




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**SCALE: 1" = 10' HORIZ.**  
**1" = 5' VERT.**

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION STREET - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED JPH @ RTA	REVISED		SCALE: AS NOTED SHEET NO. 14 OF 15 SHEETS STA. 58+71 TO STA. 61+00			ILLINOIS FEDERAL AID PROJECT				
	DATE 7-30-2015	REVISED						CONTRACT NO. 61D48				



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

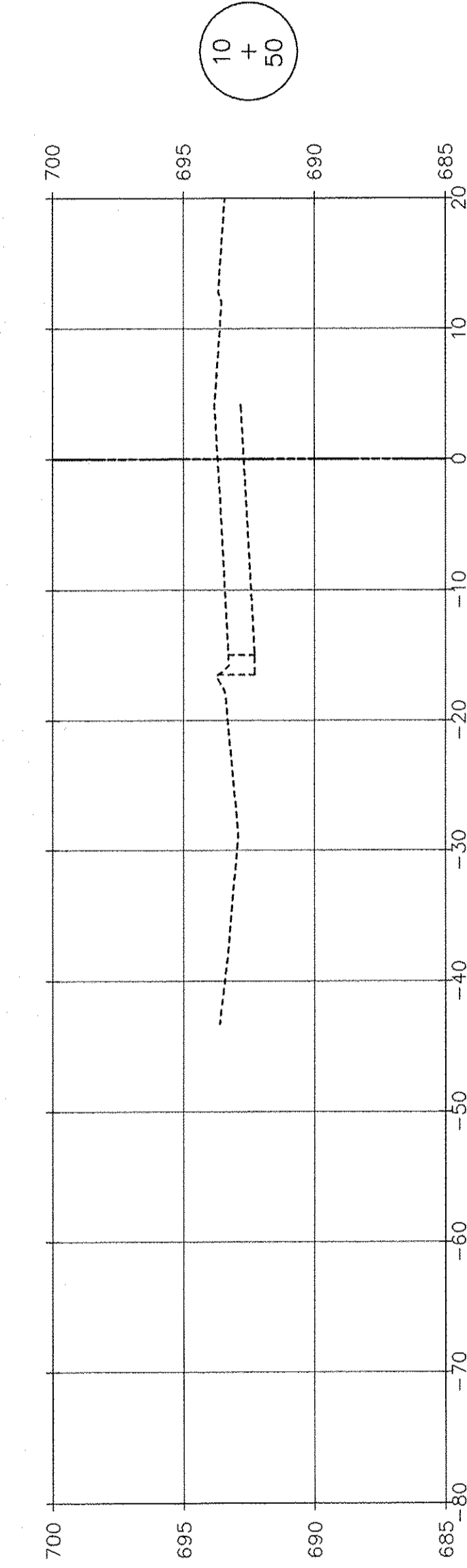
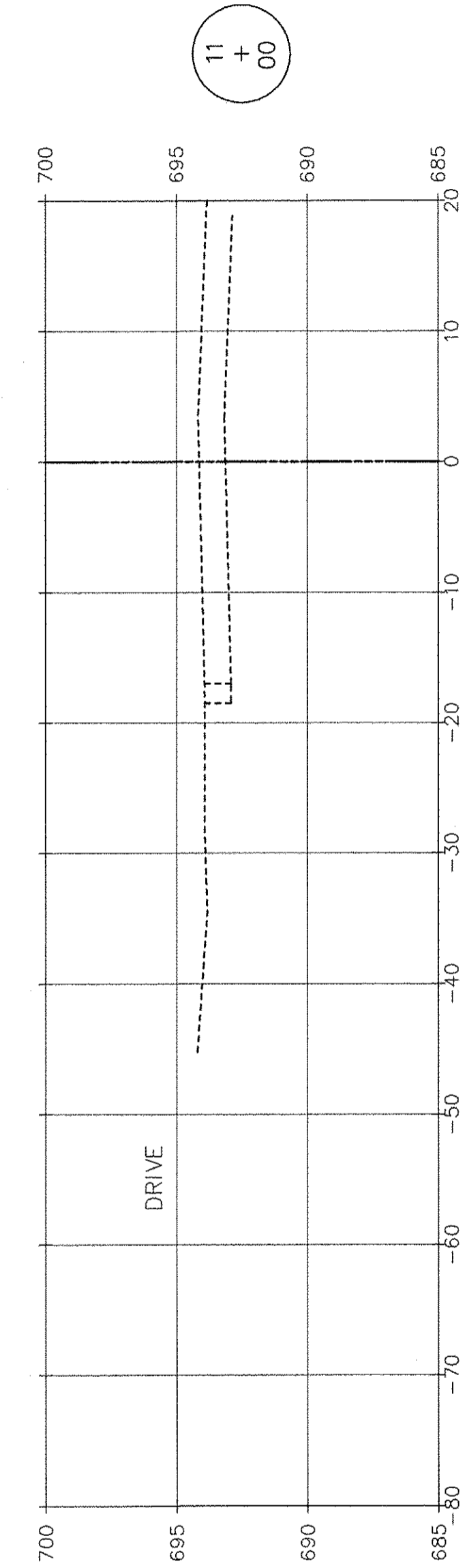
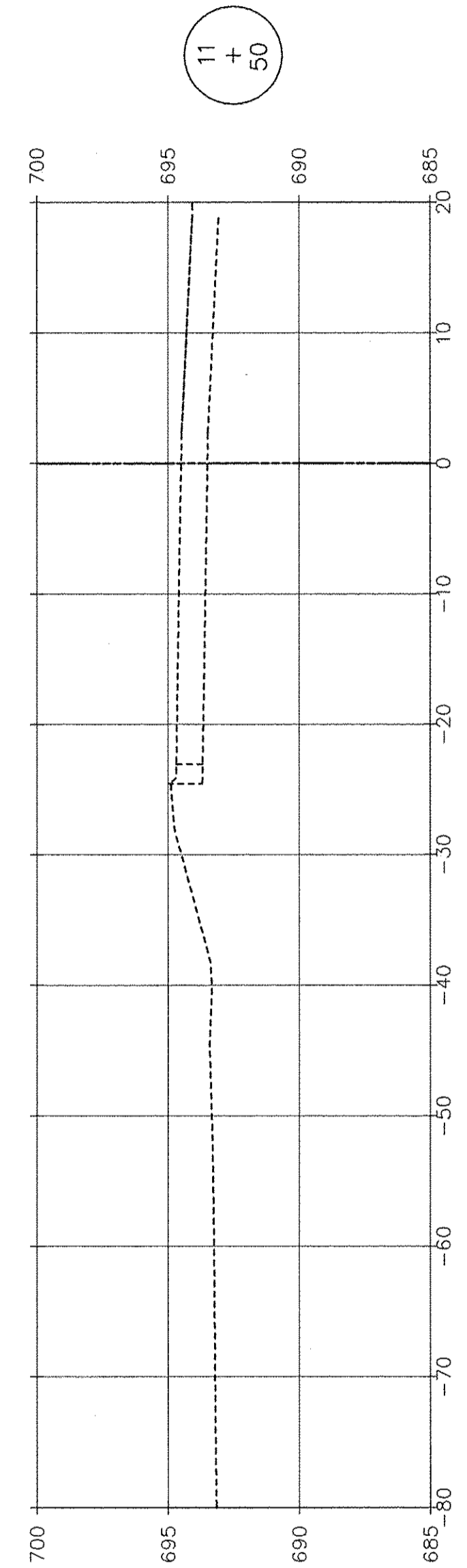
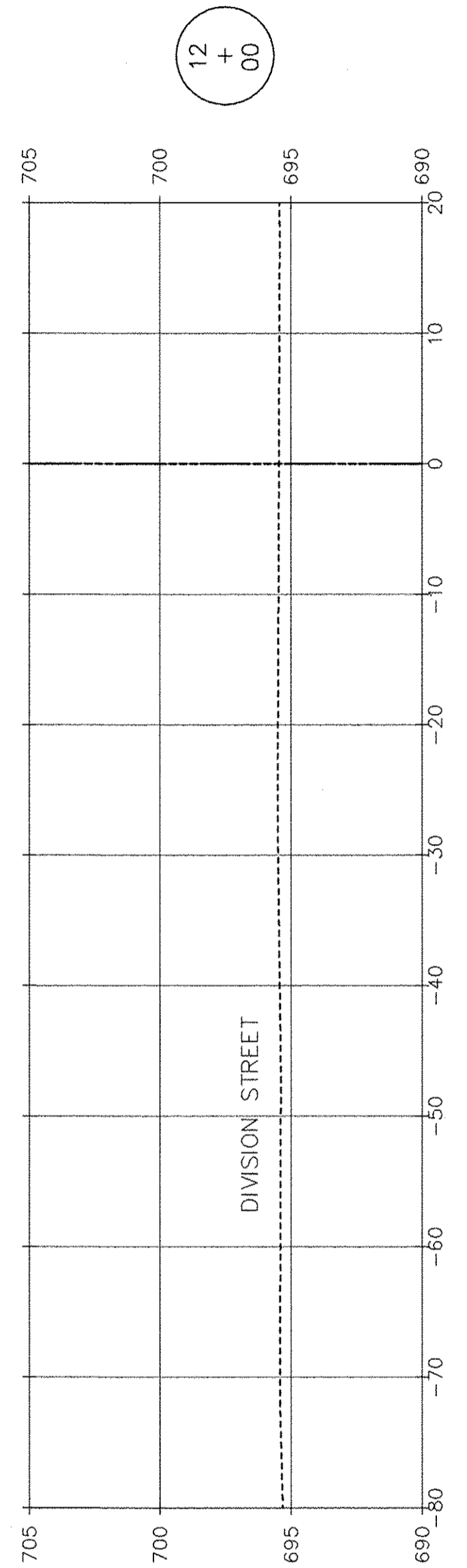
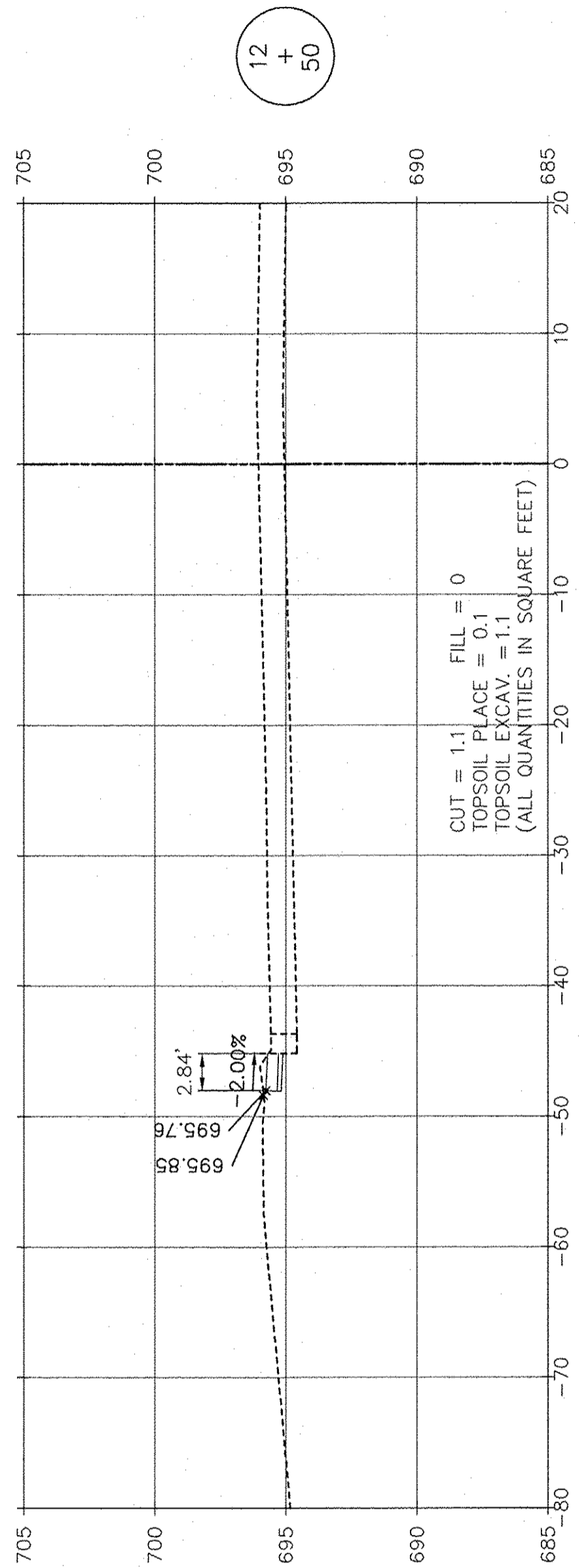
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIVISION STREET - CROSS SECTIONS**  
**BRIGGS STREET, DIVISION STREET AND FARRELL ROAD**

SCALE: AS NOTED SHEET NO. 15 OF 15 SHEETS STA. 61+50 TO STA. 63+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	81
		CONTRACT NO.	61D48	
ILLINOIS FEDERAL AID PROJECT				

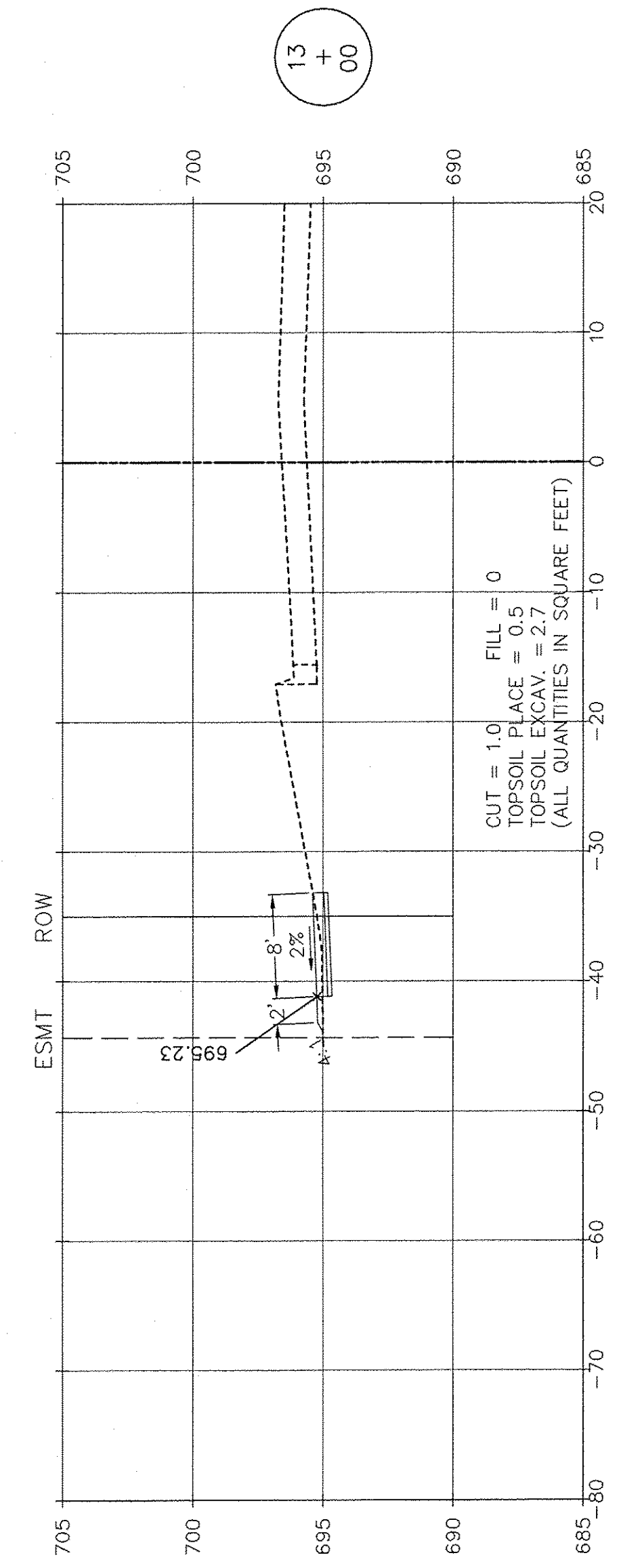
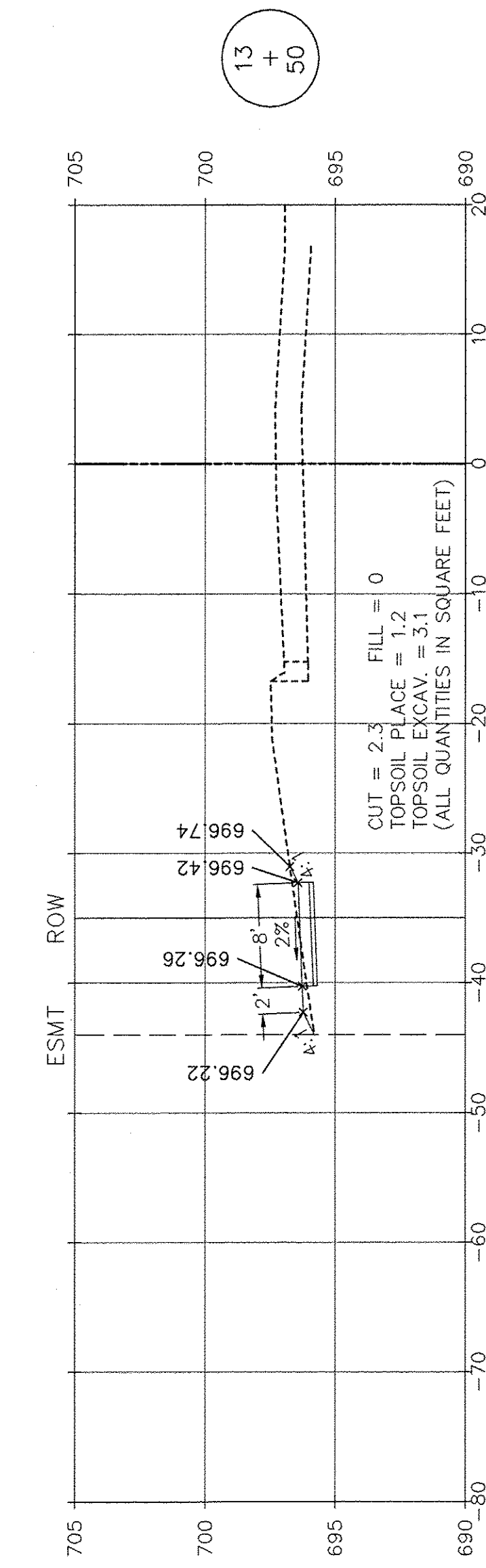
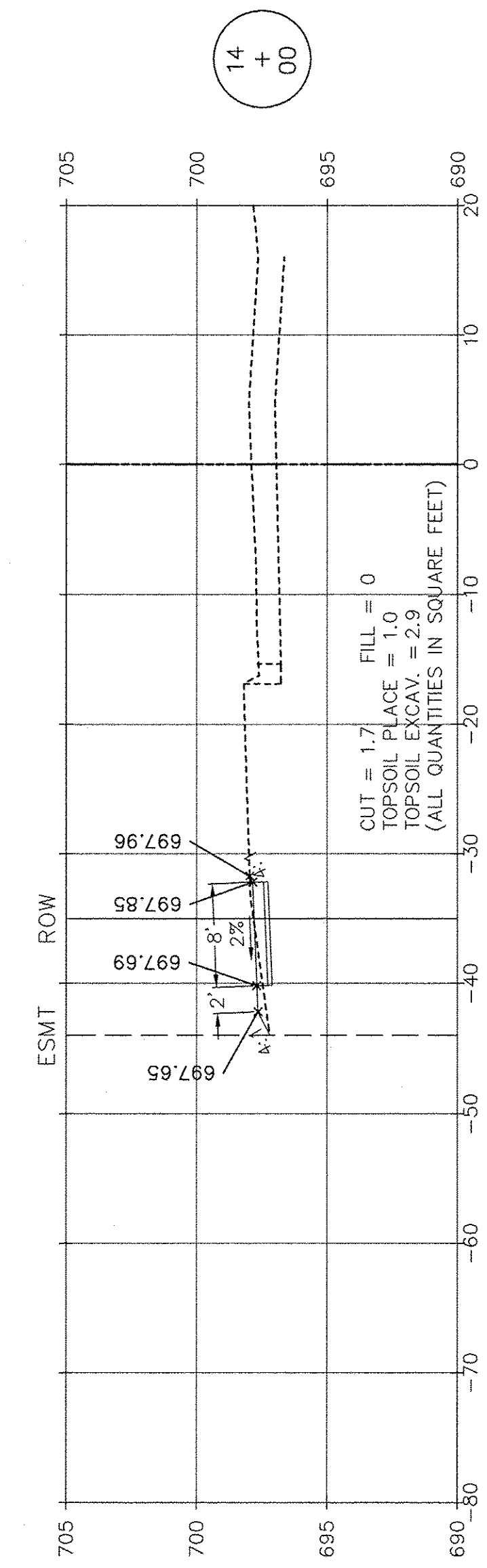
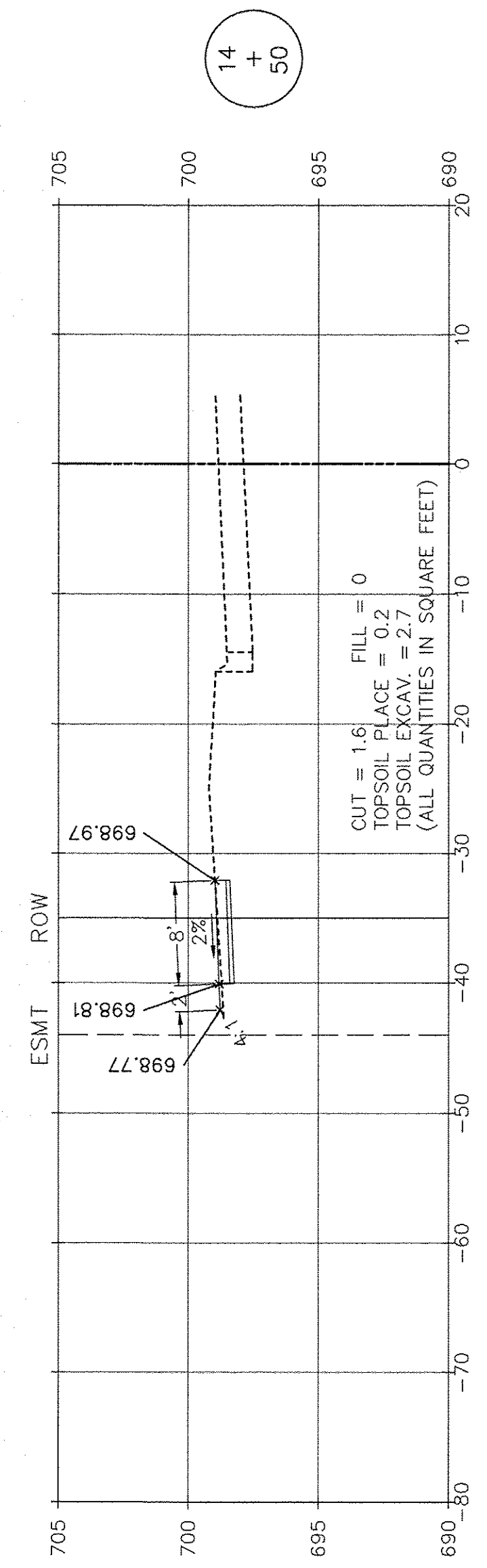
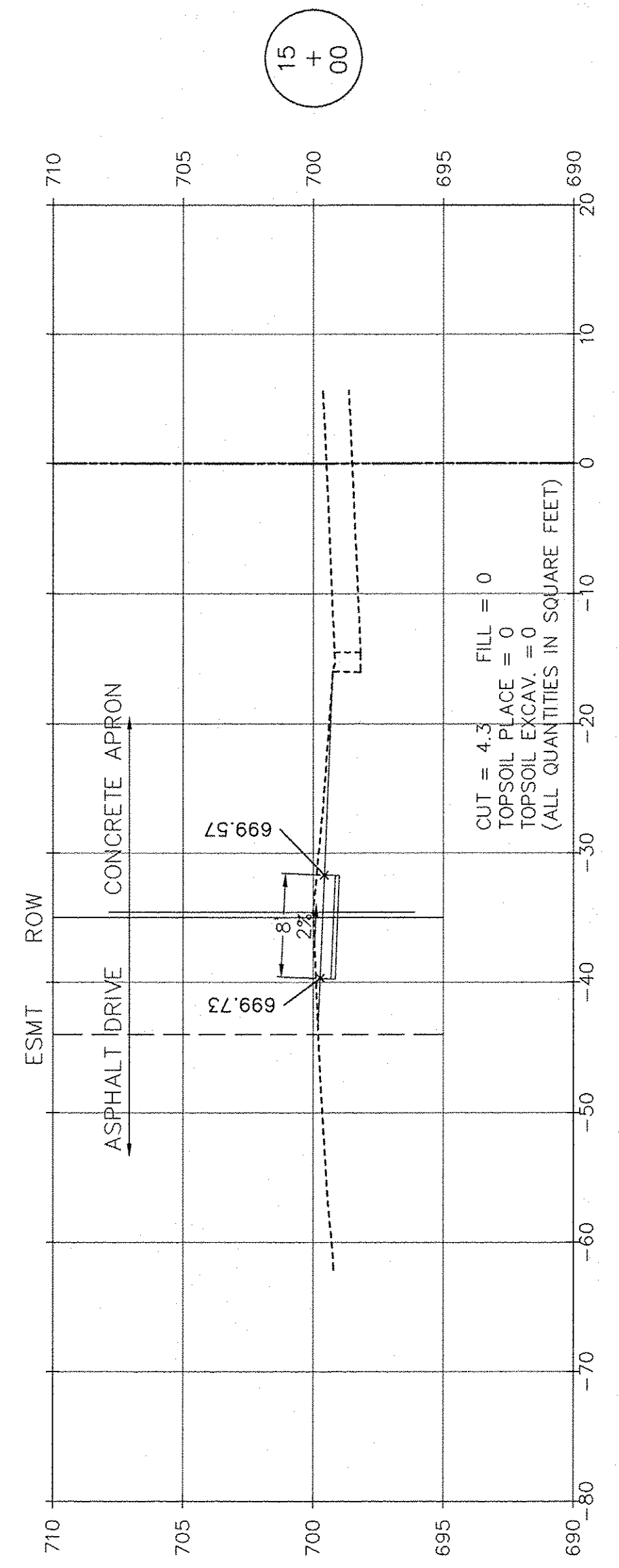




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 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FARRELL ROAD - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE 7-30-2015	REVISED		CONTRACT NO. 61D48							



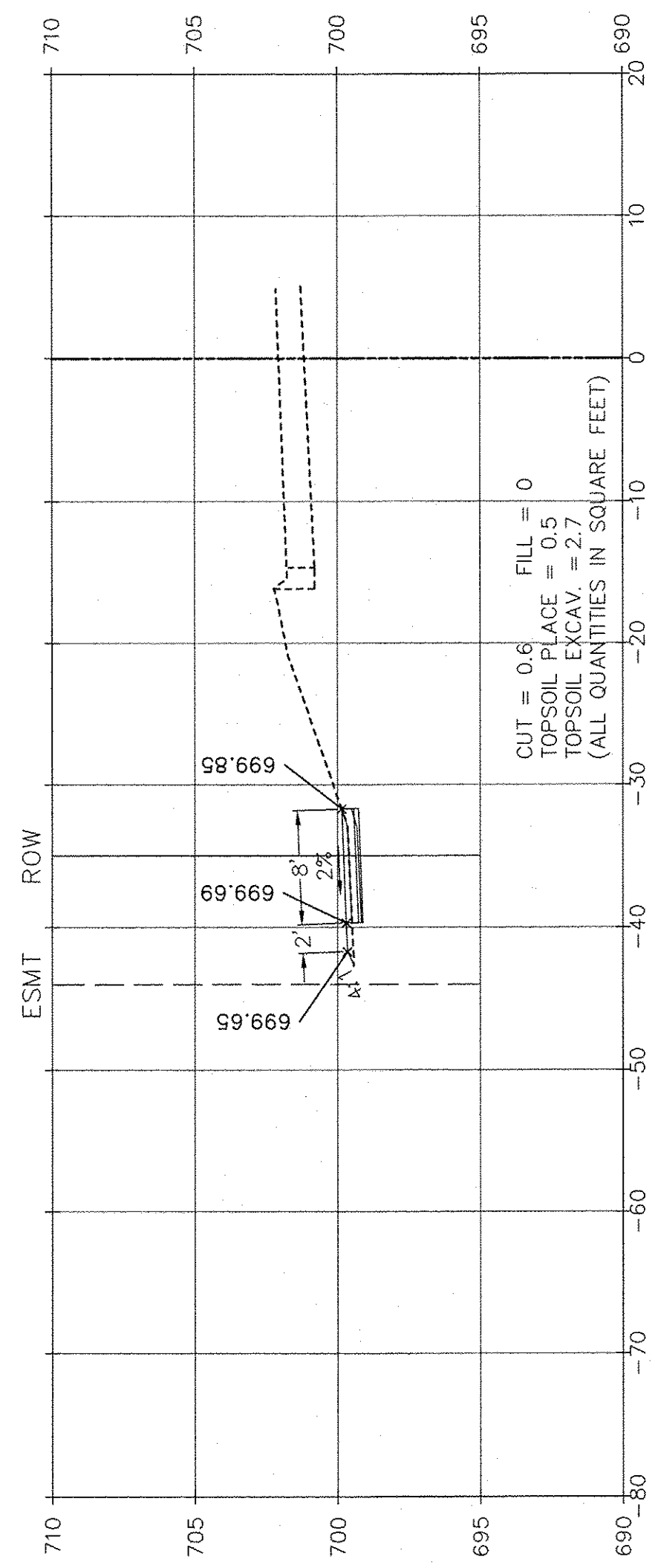
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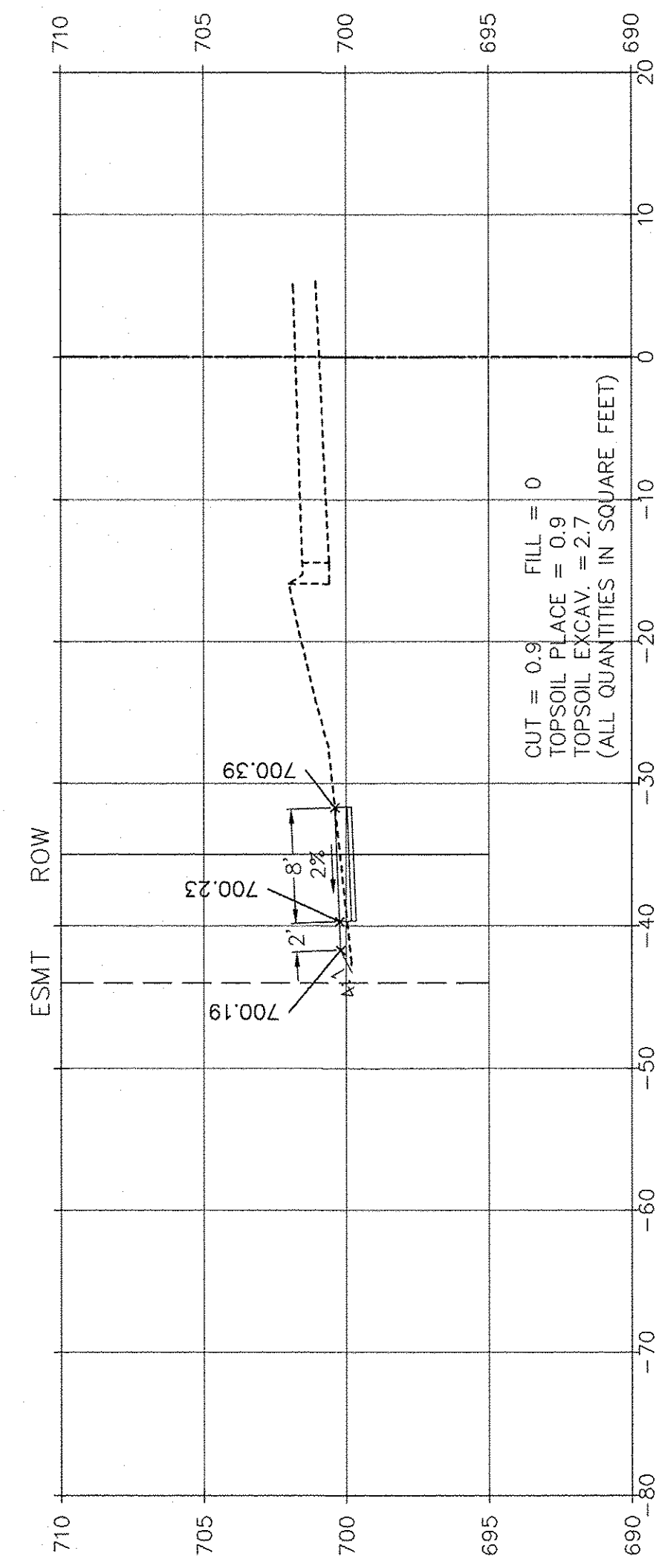
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PLOT DATE =	CHECKED JPH @ RTA	REVISED	REVISED				CONTRACT NO. 61D48				
	DATE 7-30-2015	REVISED	REVISED								



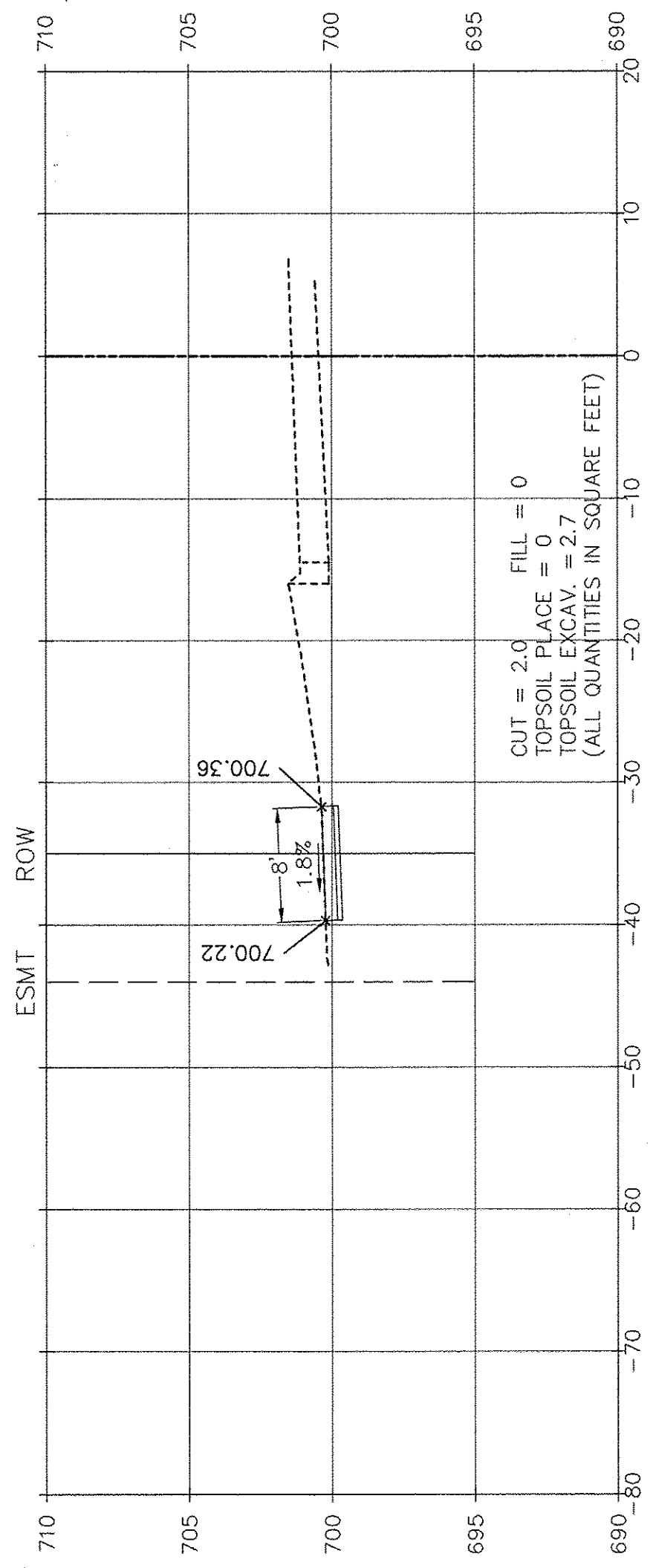
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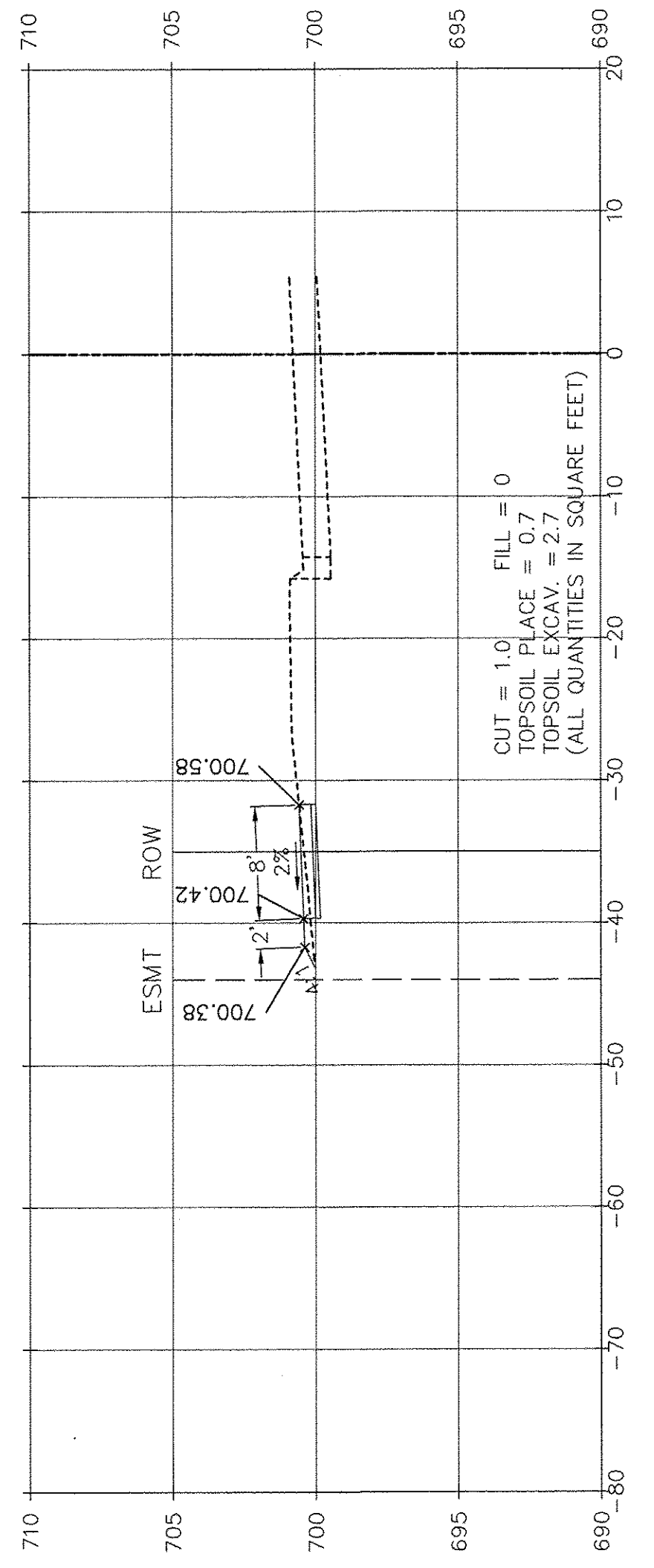
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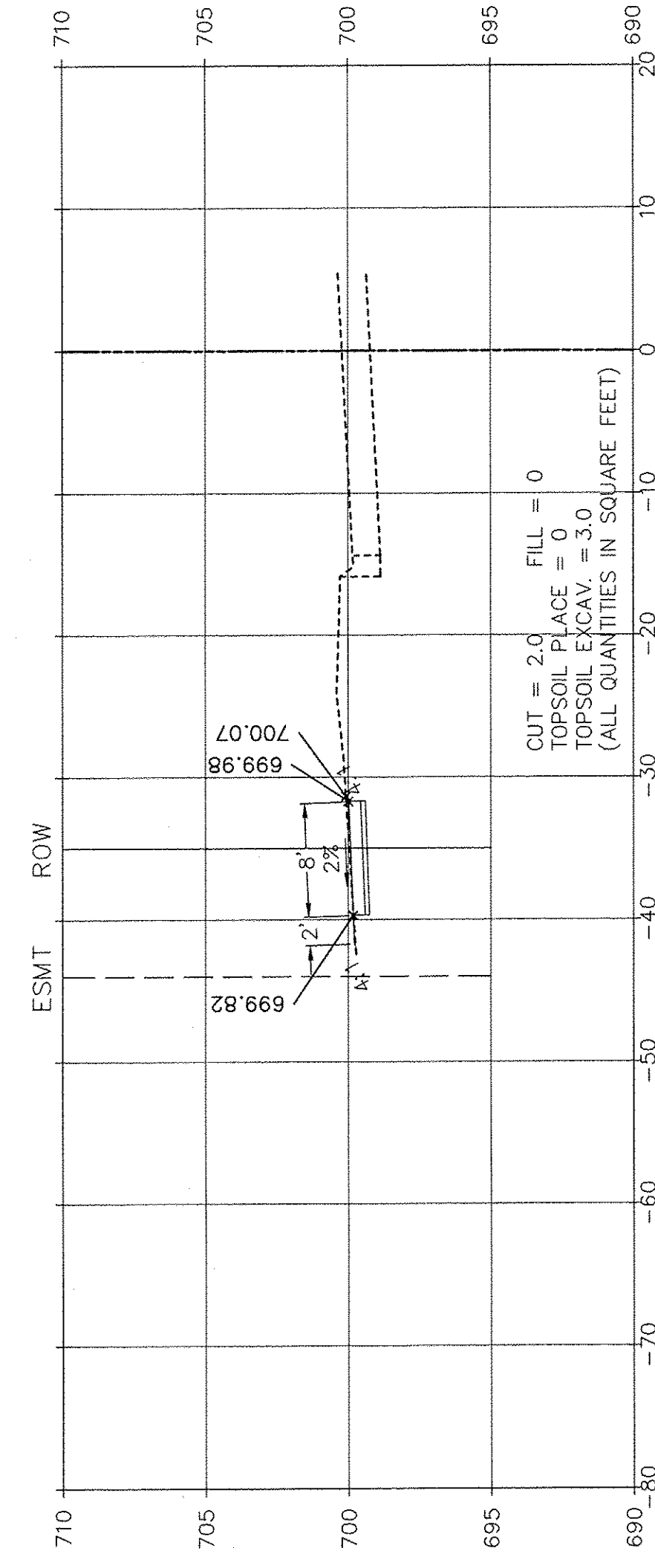
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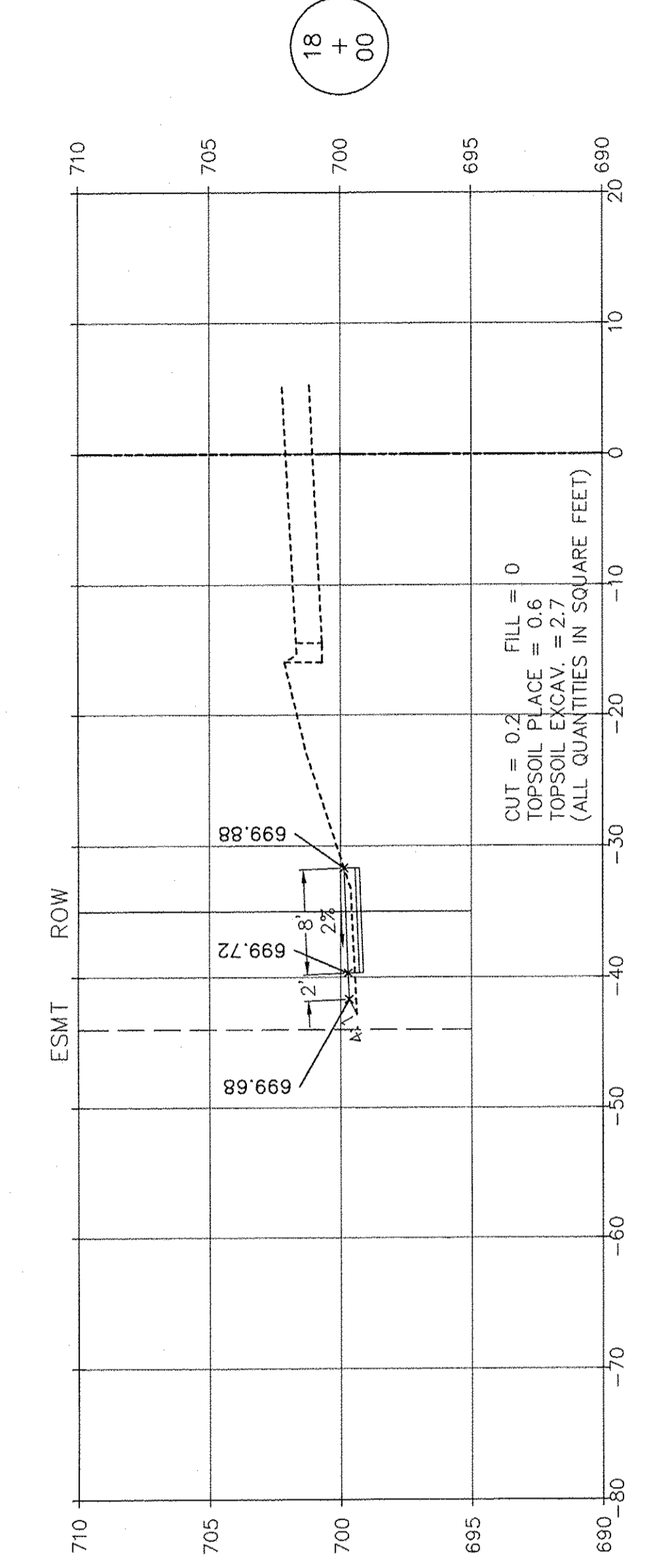
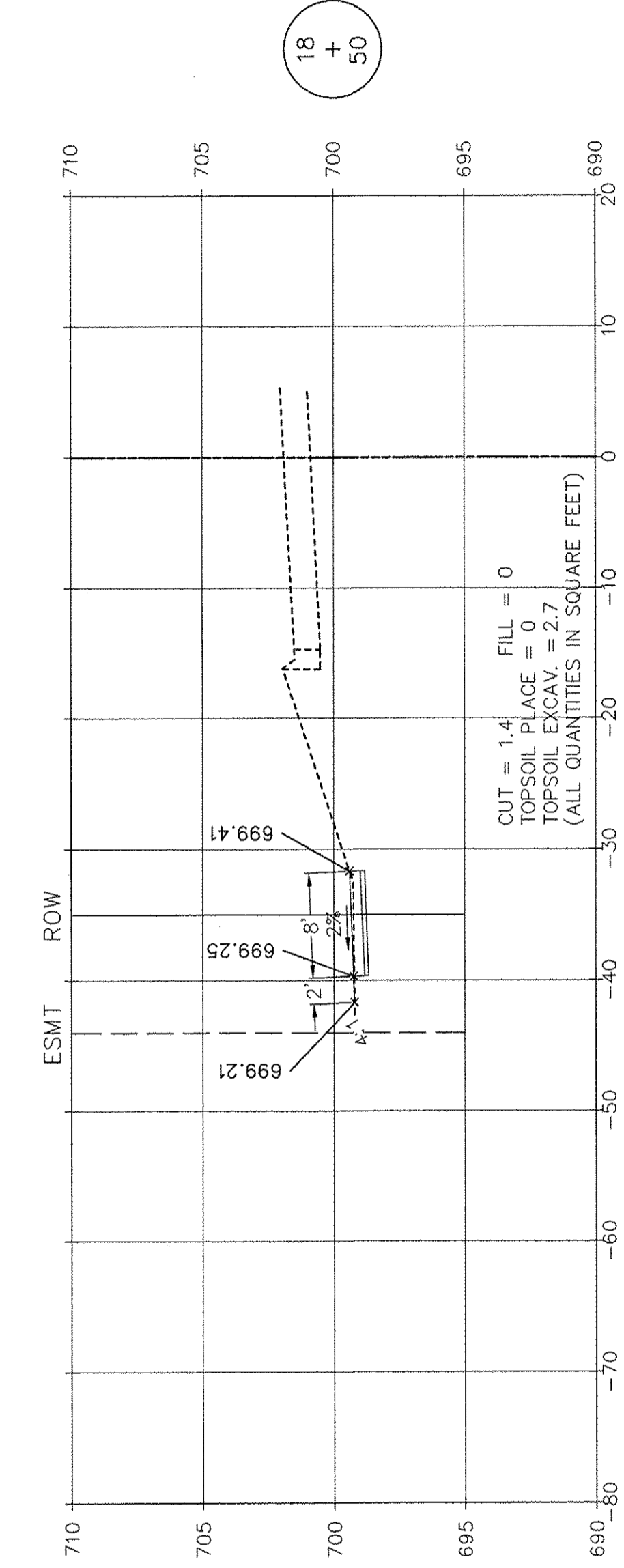
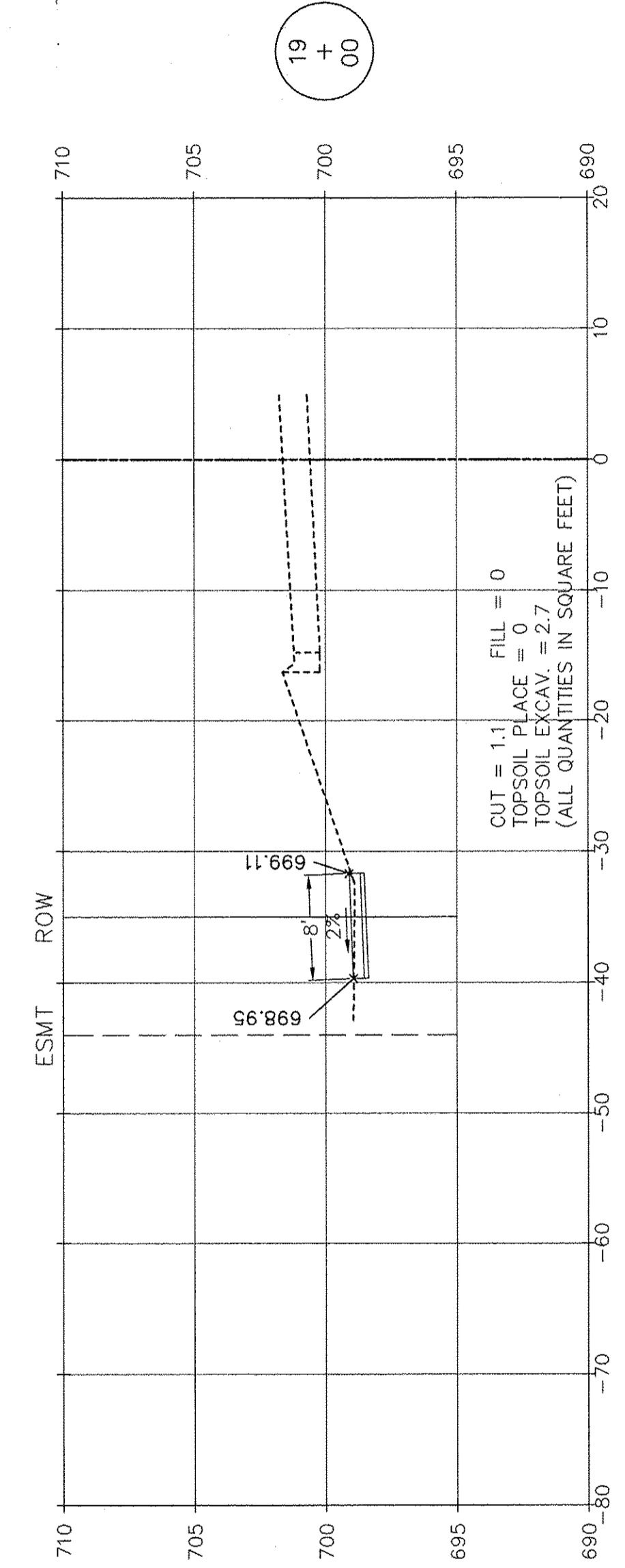
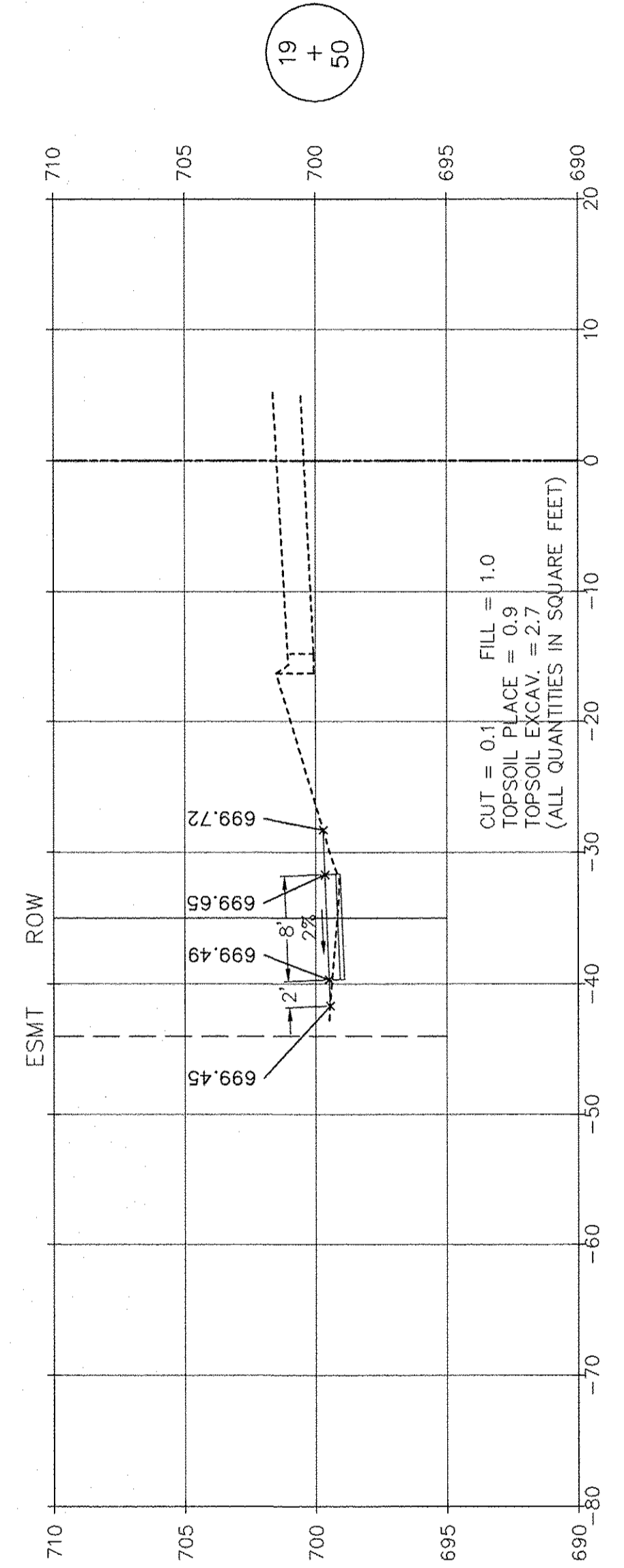
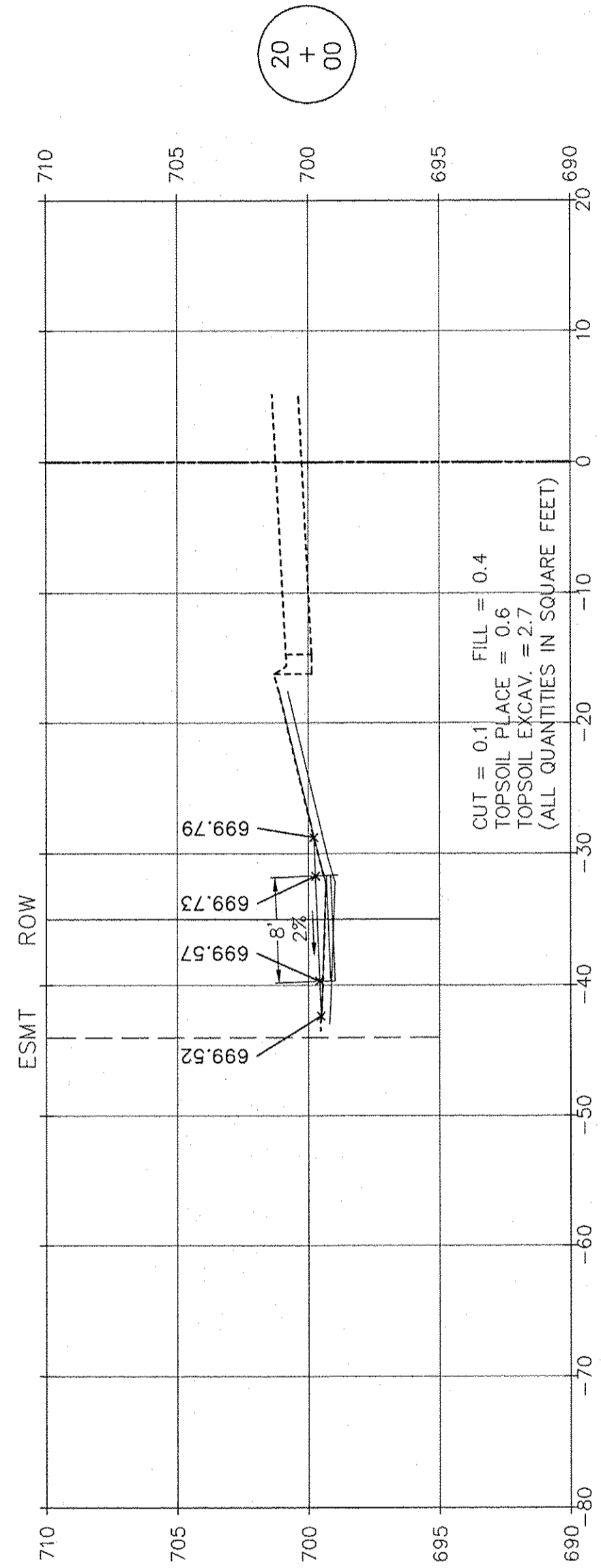
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SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 LATEST R.T. & A. REVISION: 9-19-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FARRELL ROAD - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 84	
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	PLOT DATE =	CHECKED JPH @ RTA	REVISED									
		DATE 7-30-2015	REVISED									



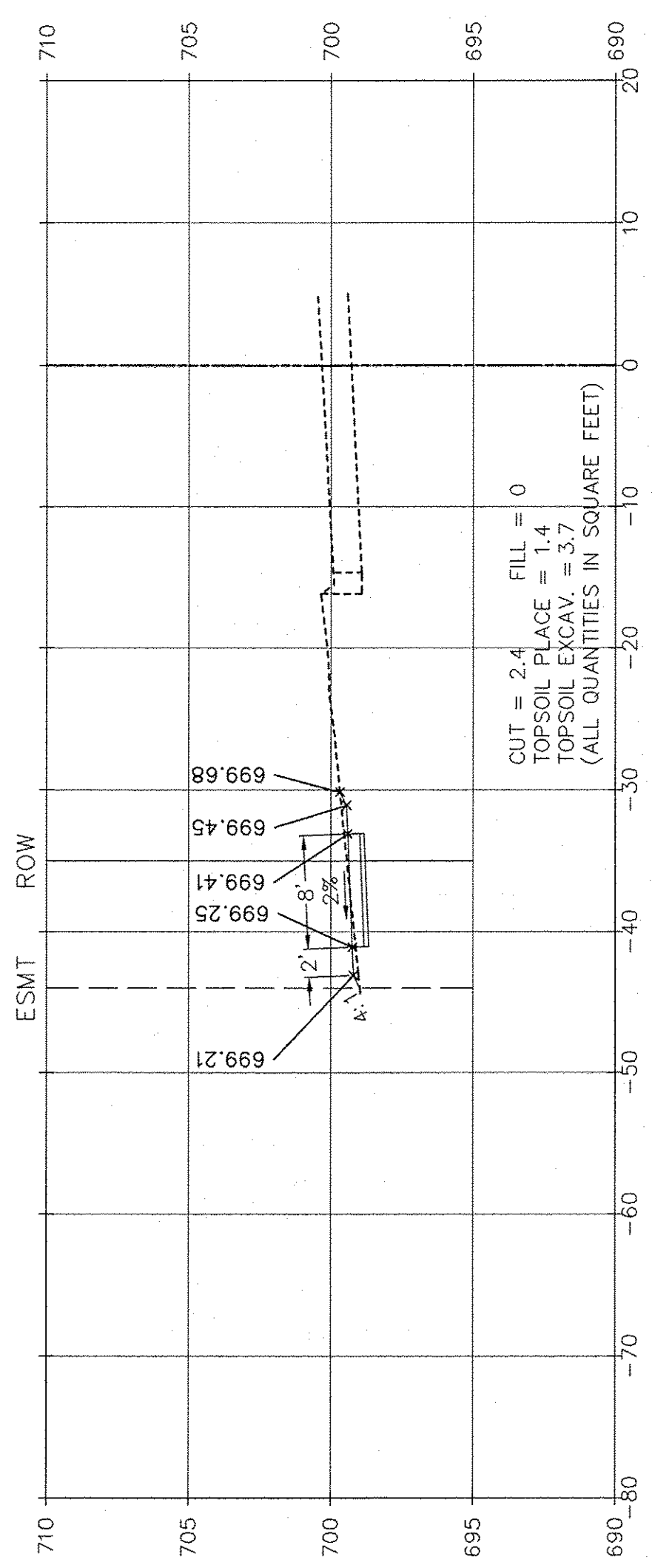
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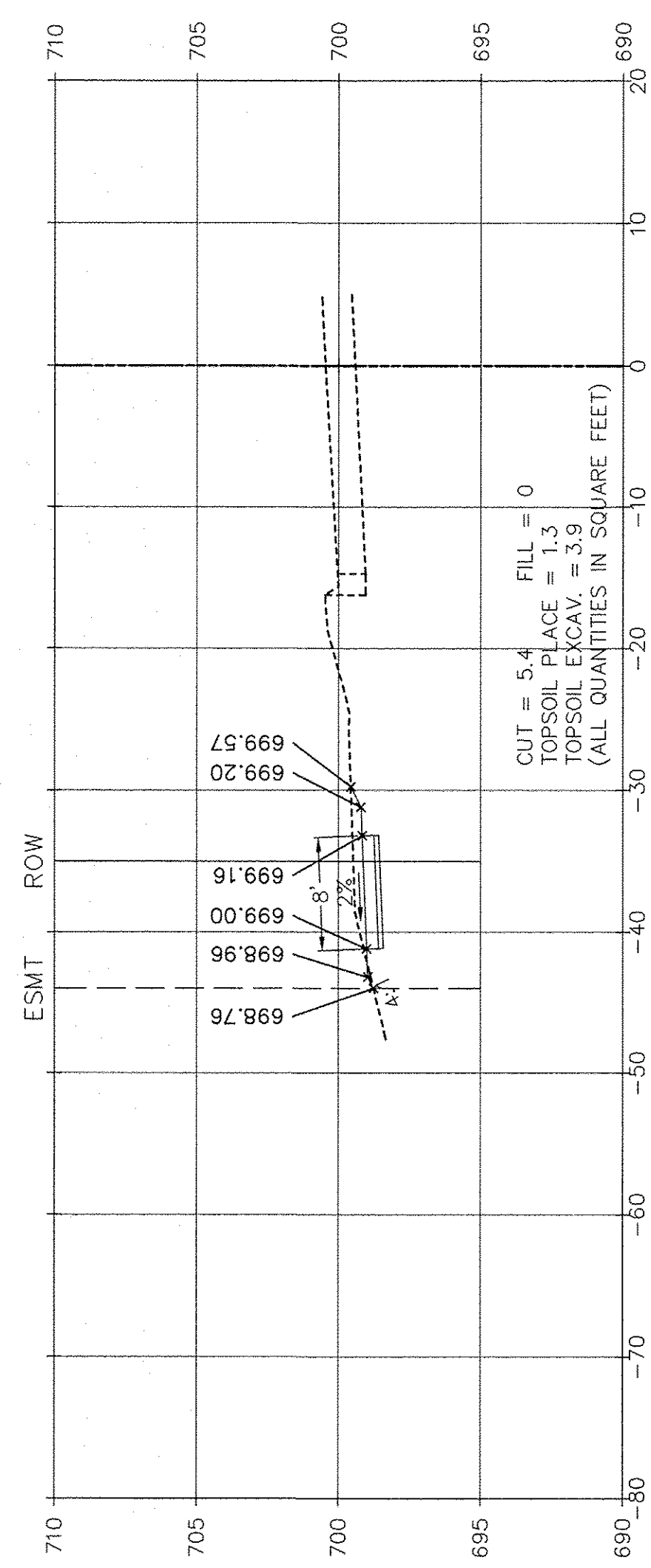
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	PLOT DATE =	CHECKED JPH @ RTA	REVISED	SCALE: AS NOTED SHEET NO. 4 OF 12 SHEETS STA. 18+00 TO STA. 20+00	CONTRACT NO. 61D48		ILLINOIS FEDERAL AID PROJECT		
		DATE 7-30-2015	REVISED						



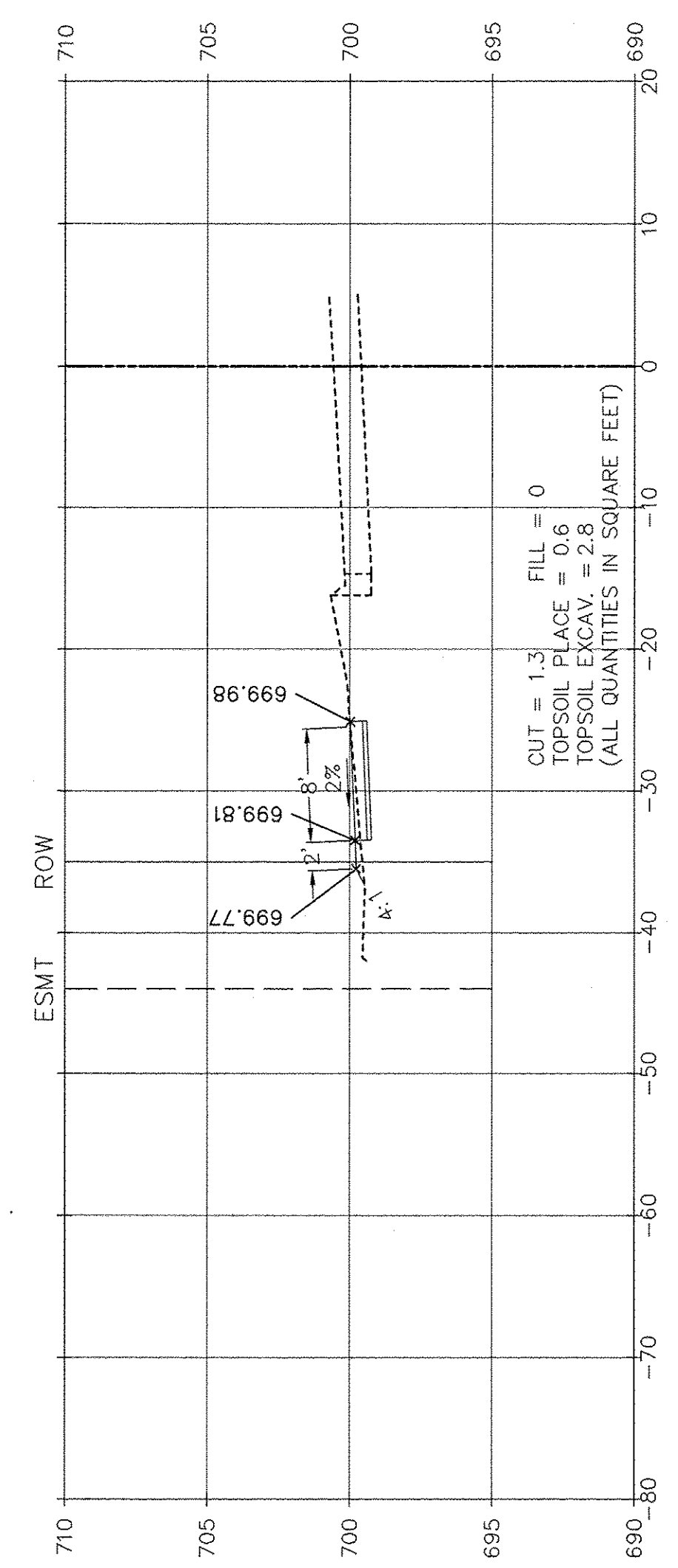
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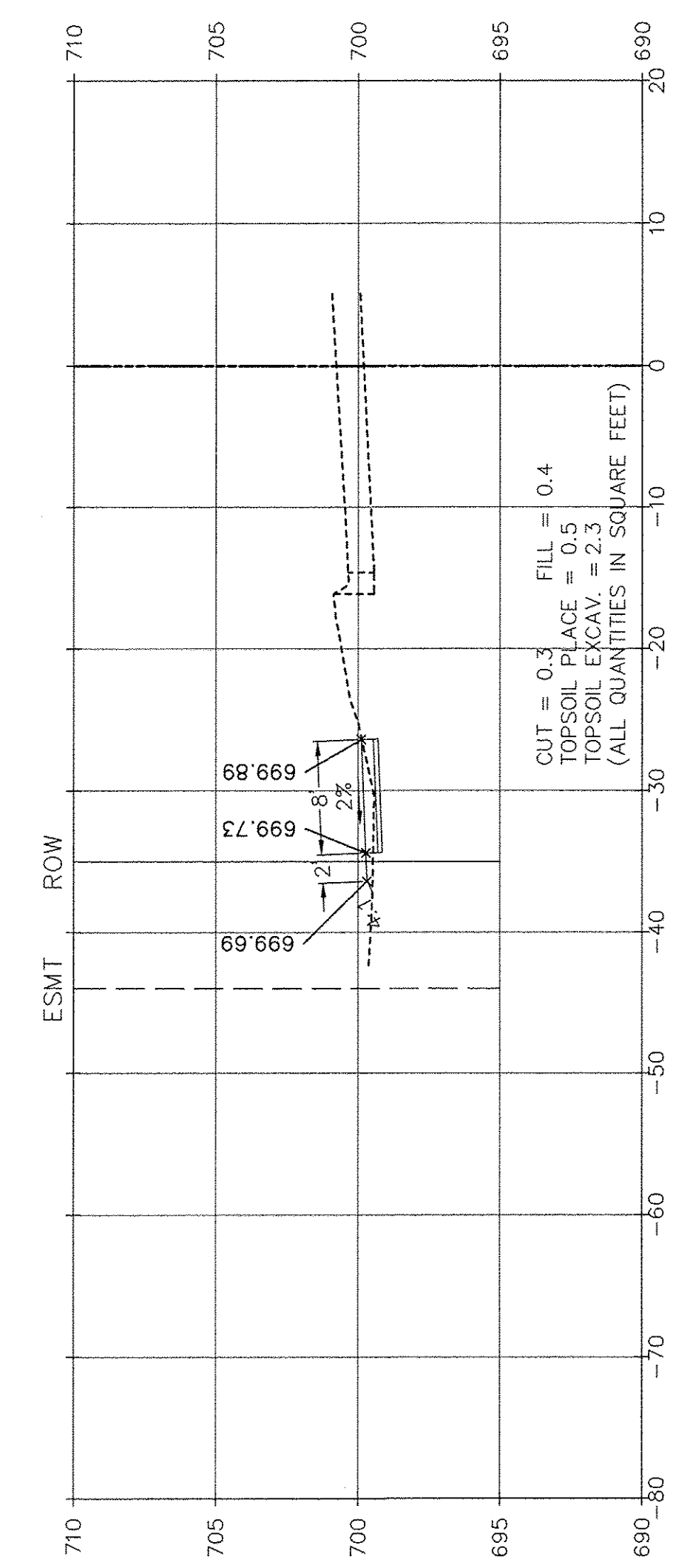
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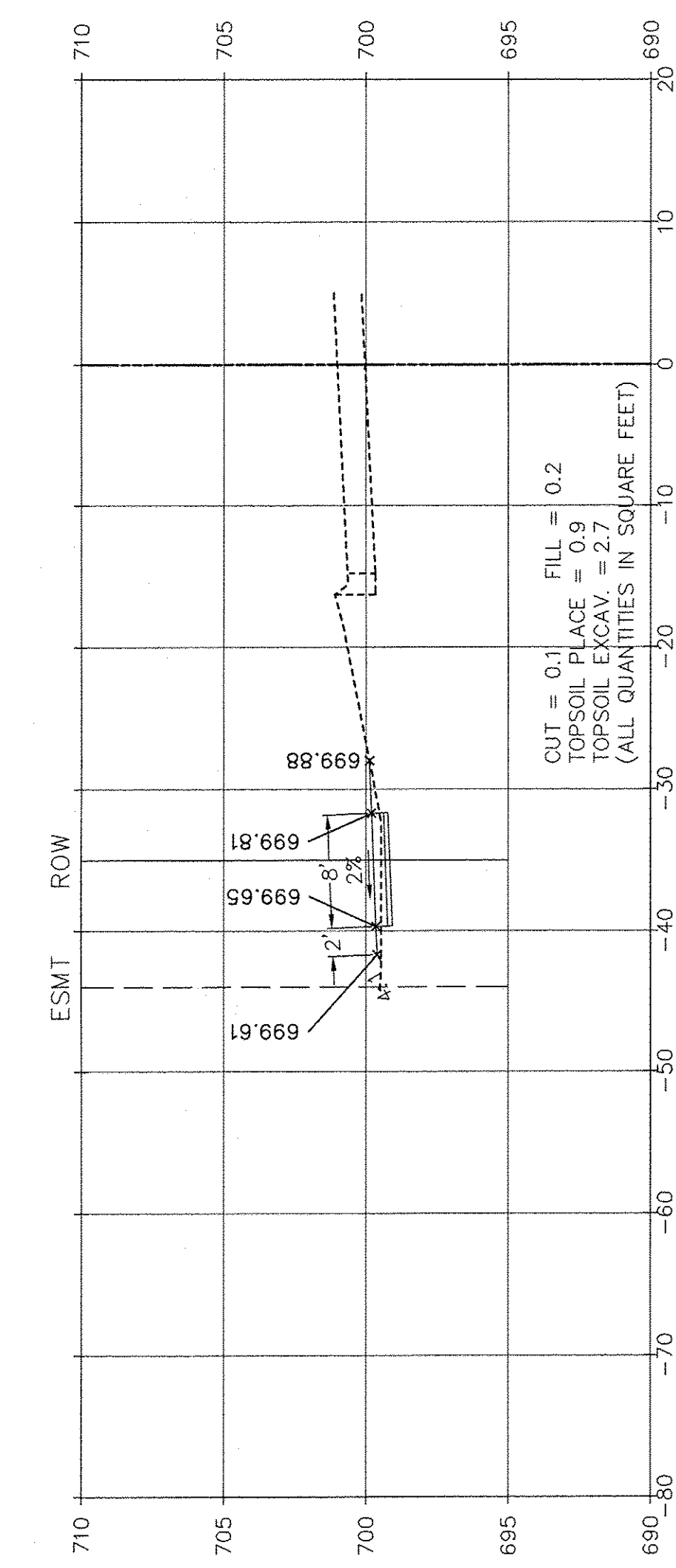
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21  
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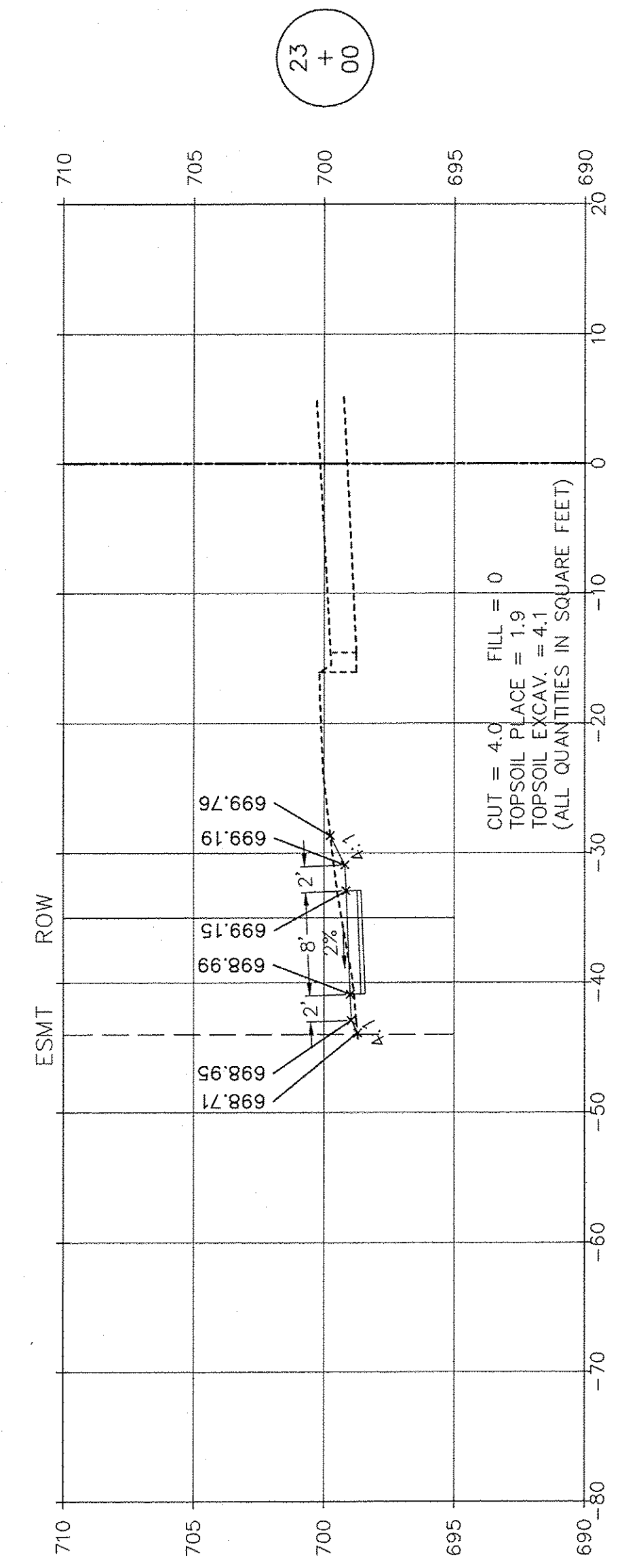
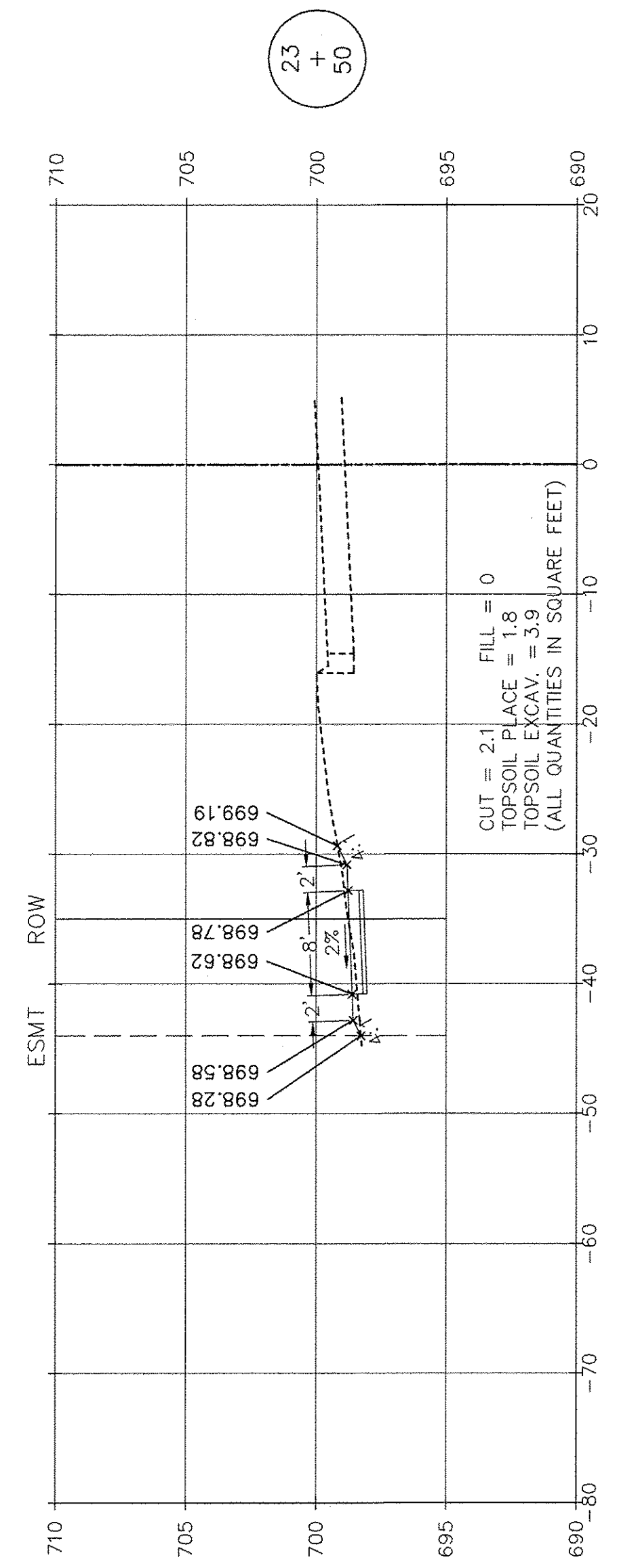
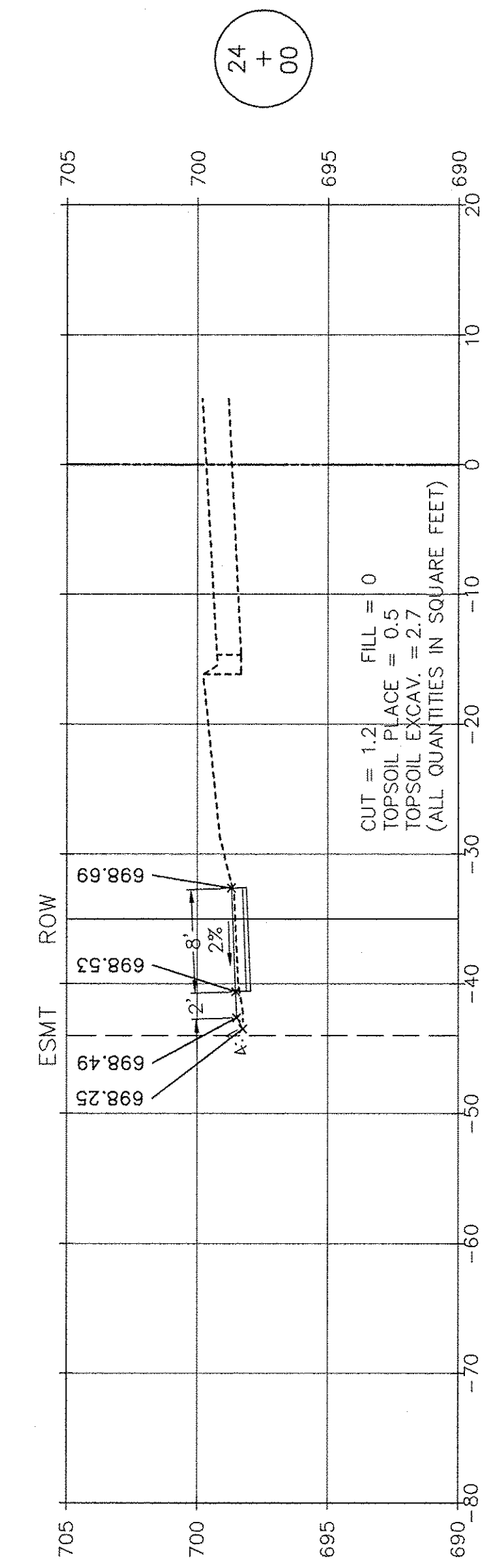
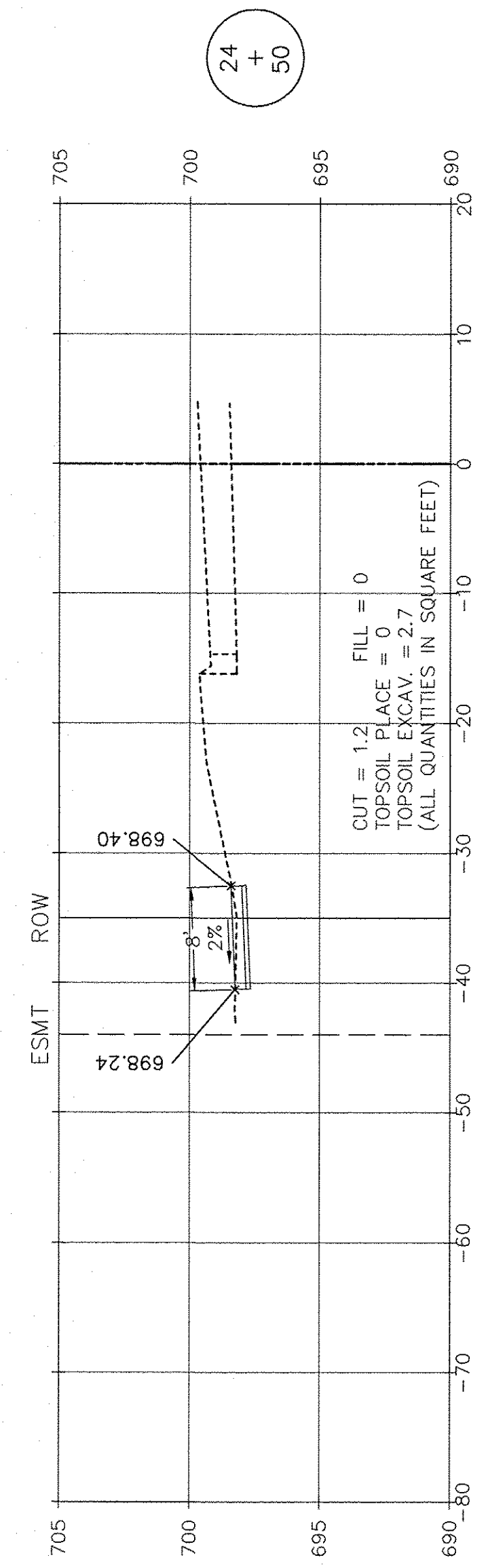
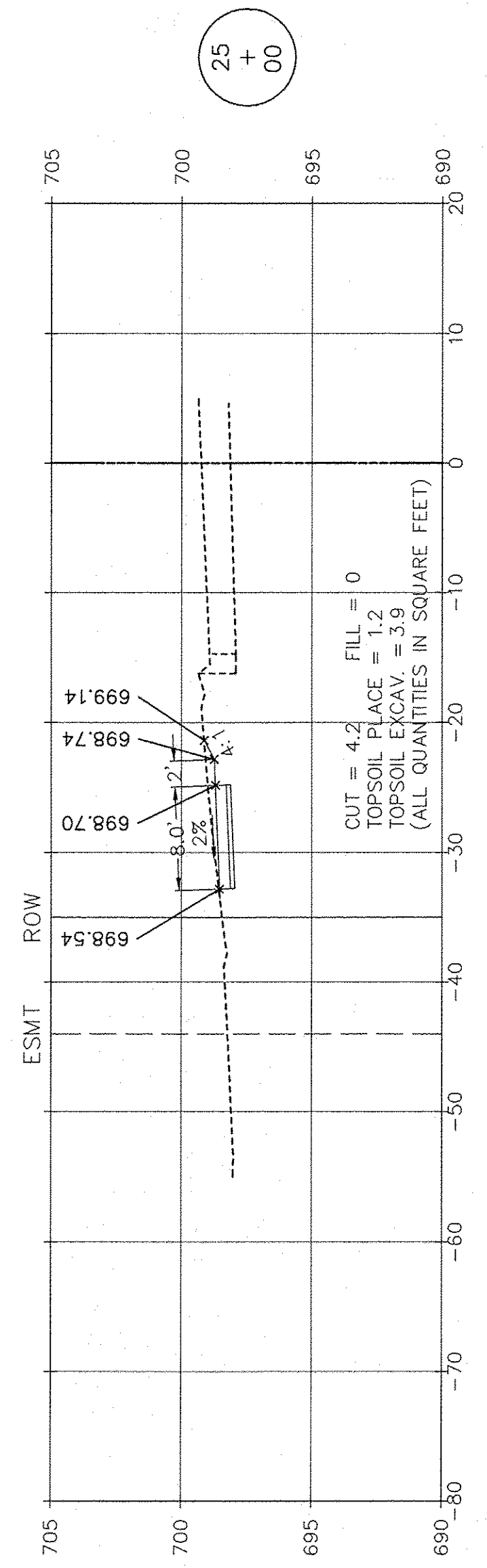
20  
+  
50



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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 website: www.ruettigertonnelli.com  
 LATEST R.T. & A. REVISION: 9-16-2016  
 FIELD BOOK & PAGE: R.T. & A. Dwg. No.: 310-1076-C2

FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 86
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED						
	PLOT DATE =	CHECKED JPH @ RTA	REVISED						
		DATE 7-30-2015	REVISED						
FARRELL ROAD - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD					SCALE: AS NOTED	SHEET NO. 5 OF 12 SHEETS	STA. 20+50 TO STA. 22+50	ILLINOIS FEDERAL AID PROJECT	



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

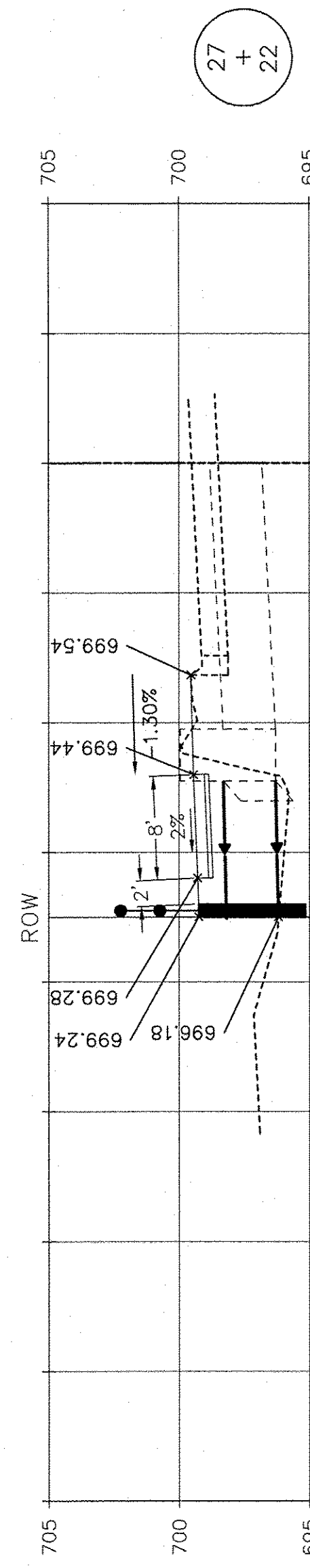
**RT & A** **Ruettiger, Tonelli & Associates, Inc.**  
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	DRAWN ECH @ RTA	CHECKED JPH @ RTA	REVISED
	PLOT SCALE =	DATE 7-30-2015	REVISED

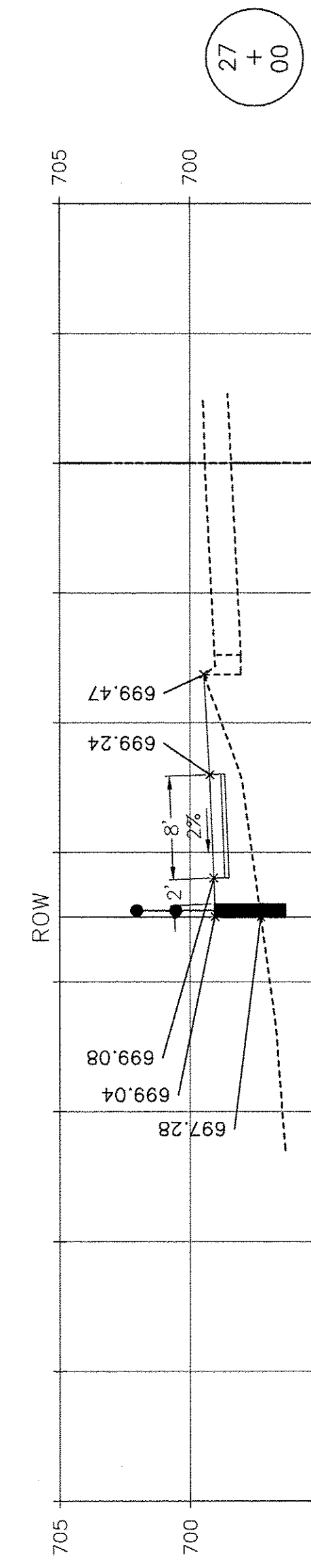
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FARRELL ROAD - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
SCALE: AS NOTED SHEET NO. 6 OF 12 SHEETS STA. 23+00 TO STA. 25+00

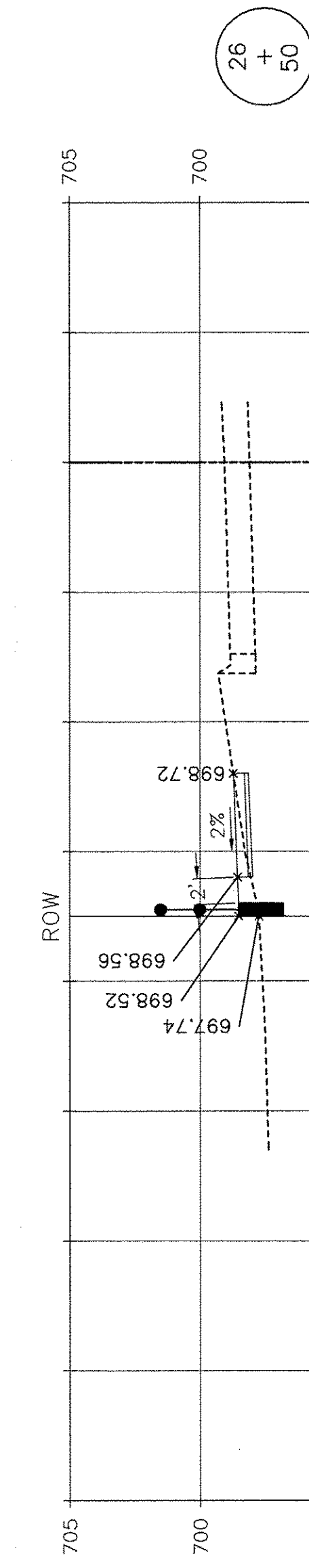
F.A.U. RTE. 363 / 291 / 366	SECTION 10-00072-00-BT	COUNTY WILL	TOTAL SHEETS 93	SHEET NO. 87
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	



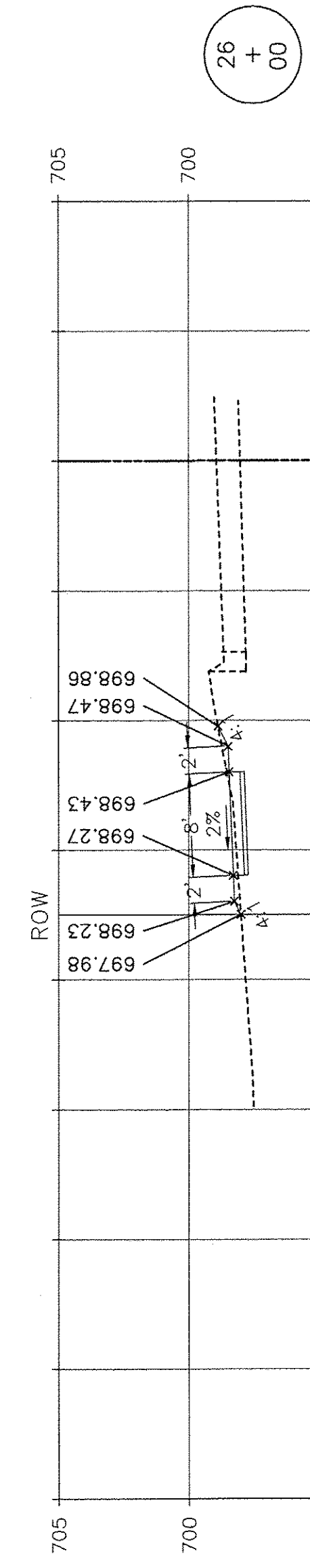
27  
+  
22



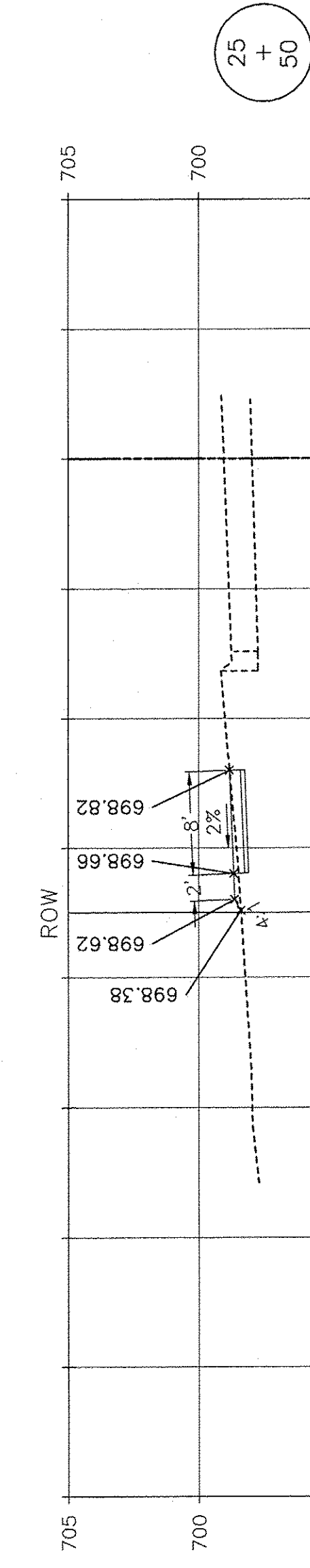
27  
+  
00



26  
+  
50



26  
+  
00



25  
+  
50

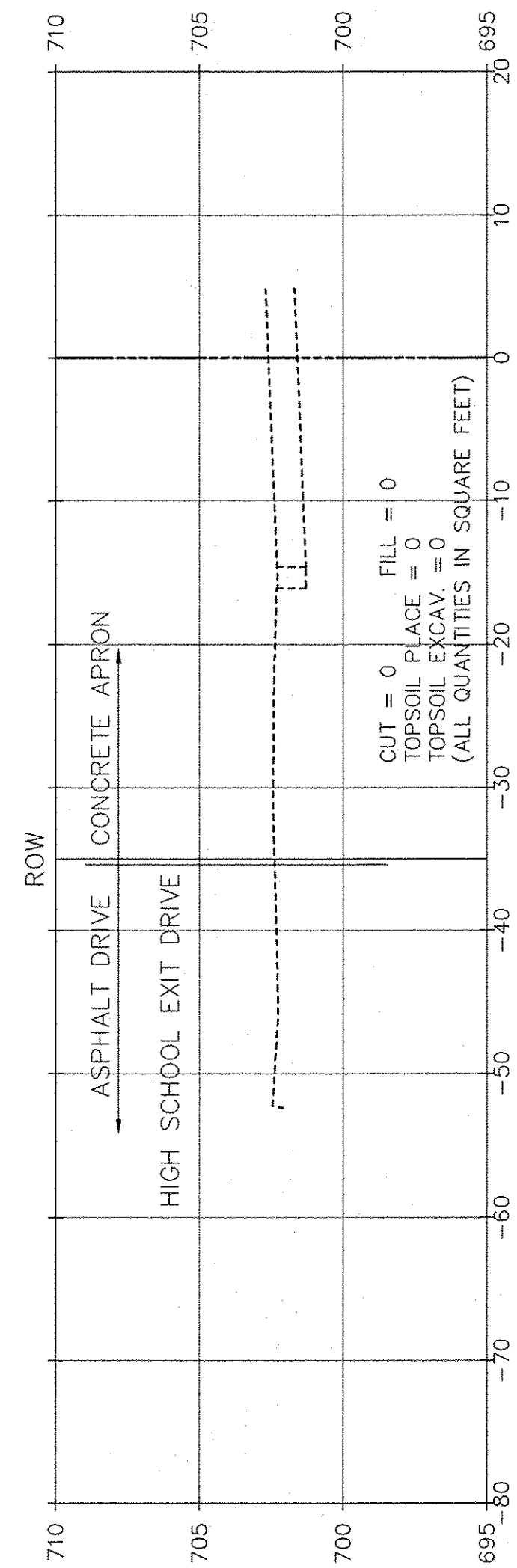
SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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**R.T. & A. Dwg. No.: 310-1076-C2**

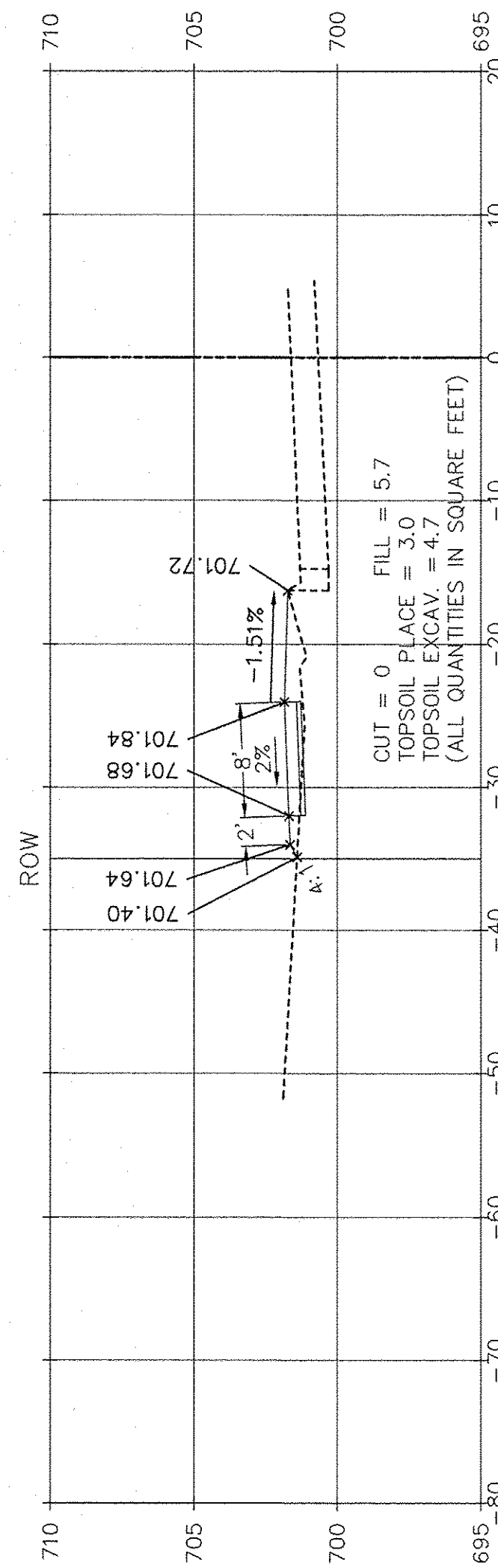
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	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: AS NOTED	SHEET NO. 7 OF 12 SHEETS	STA. 25+50 TO STA. 27+22	363 / 291 / 366	10-0072-00-BT	WILL	93
PLOT DATE =	CHECKED JPH @ RTA	REVISED	REVISED							CONTRACT NO. 61D48	
	DATE 7-30-2015	REVISED	REVISED							ILLINOIS FEDERAL AID PROJECT	



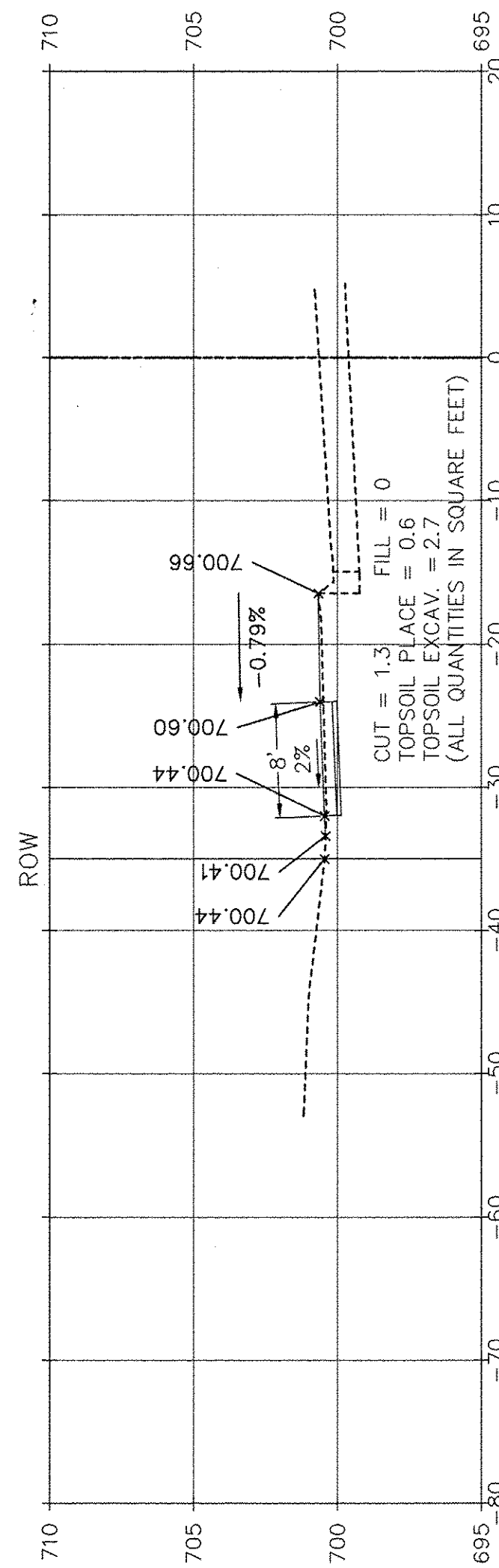
29  
+  
50



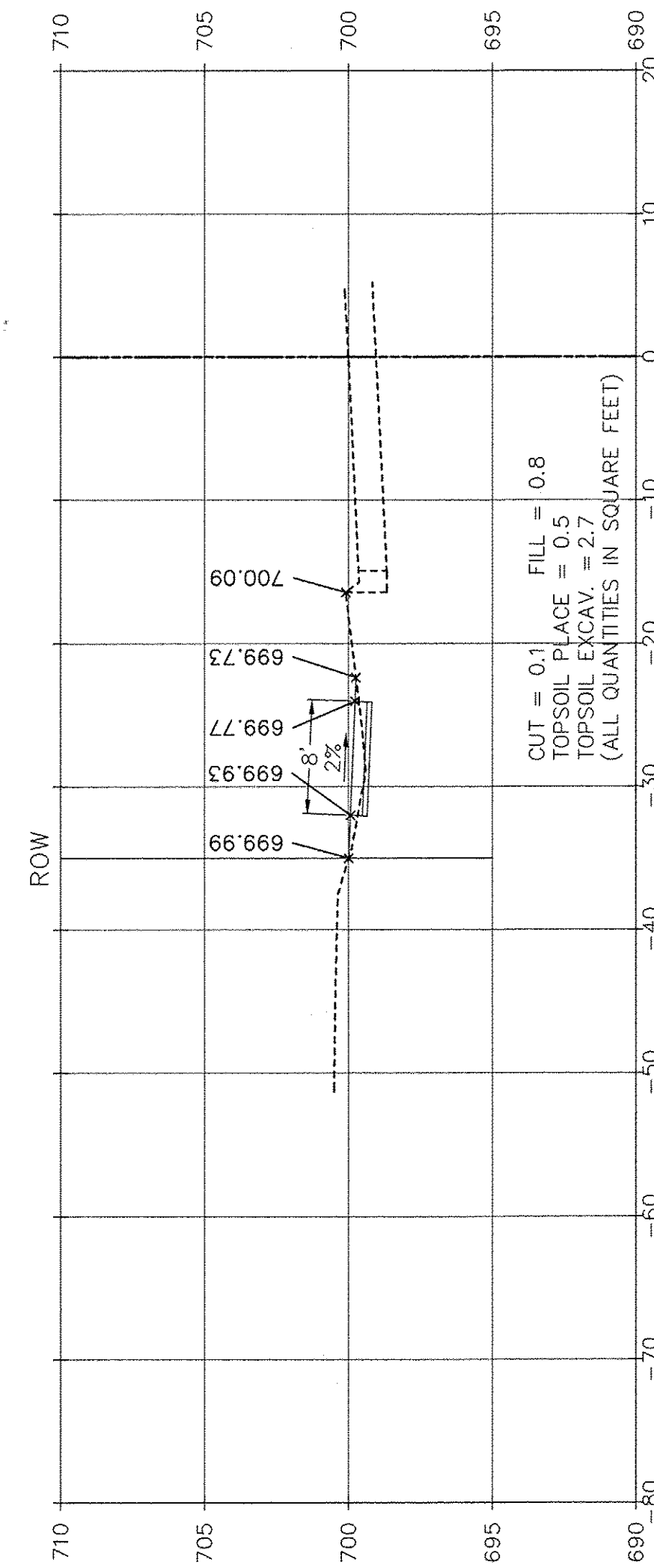
29  
+  
00



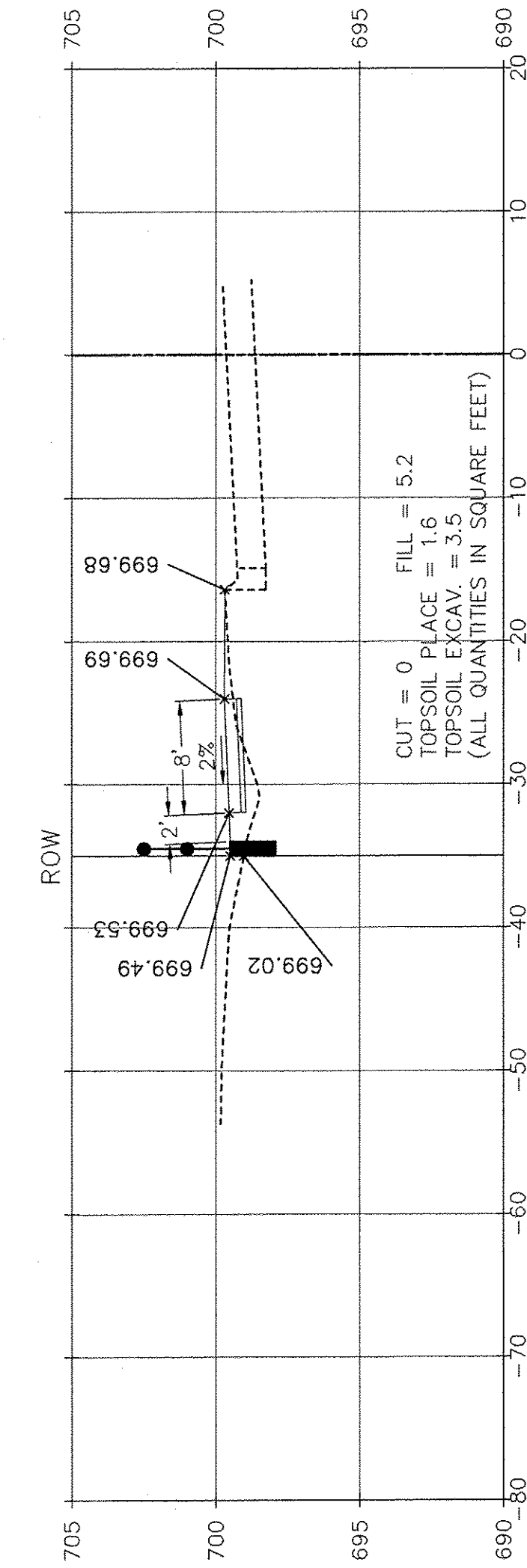
28  
+  
50



28  
+  
00



27  
+  
50



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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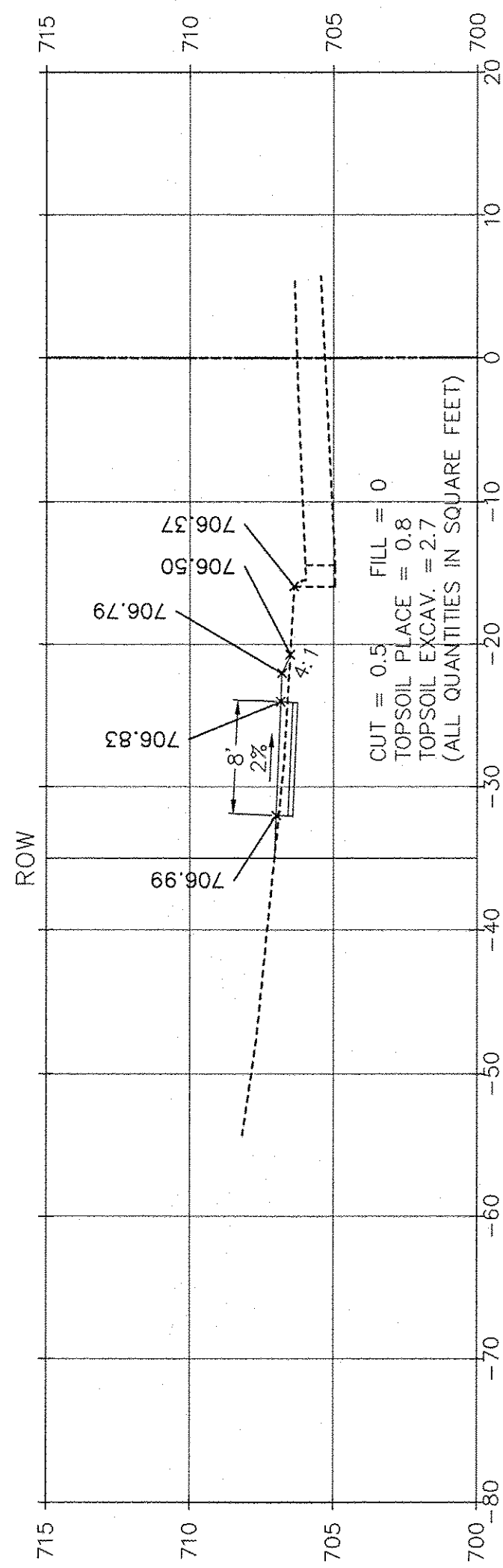
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
	PLOT SCALE =	CHECKED JPH @ RTA	REVISED
	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

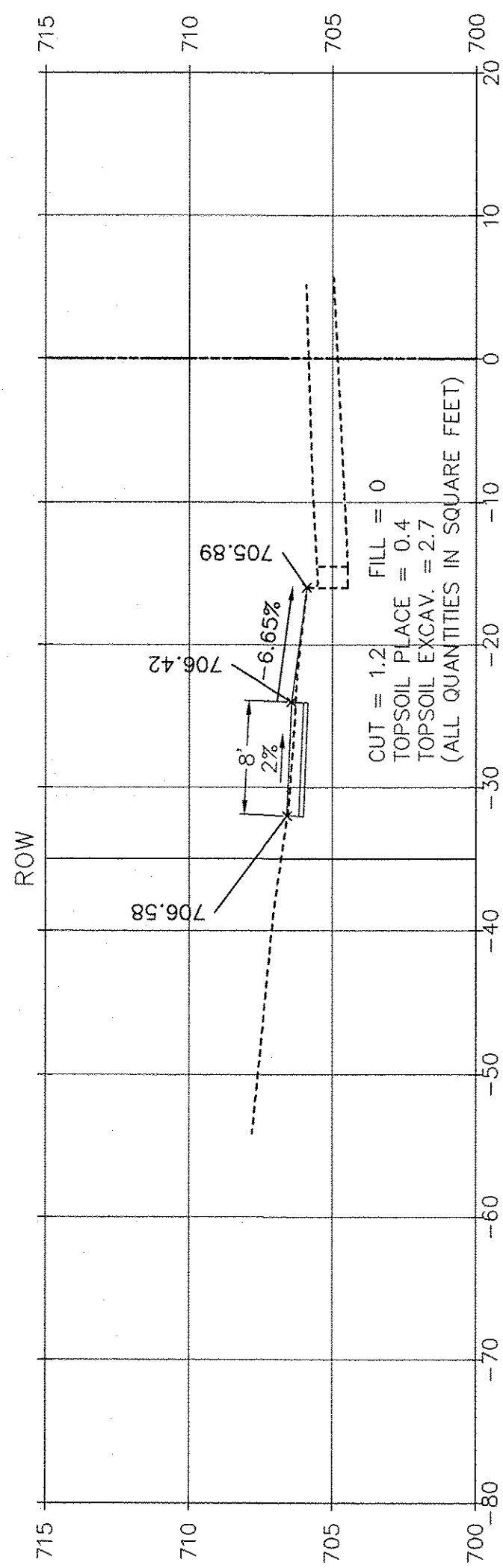
FARRELL ROAD - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
SCALE: AS NOTED SHEET NO. 8 OF 12 SHEETS STA. 27+50 TO STA. 29+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	89
ILLINOIS FEDERAL AID PROJECT				

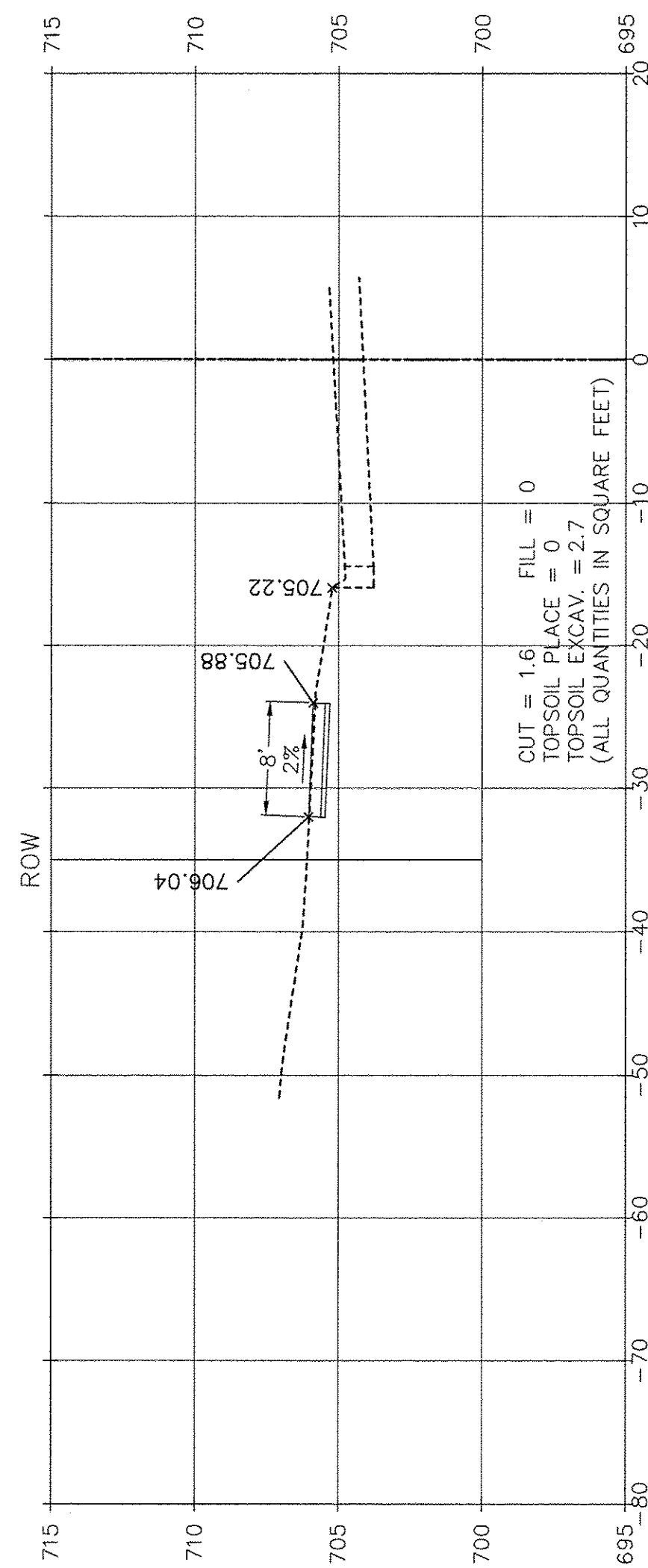
32  
+  
00



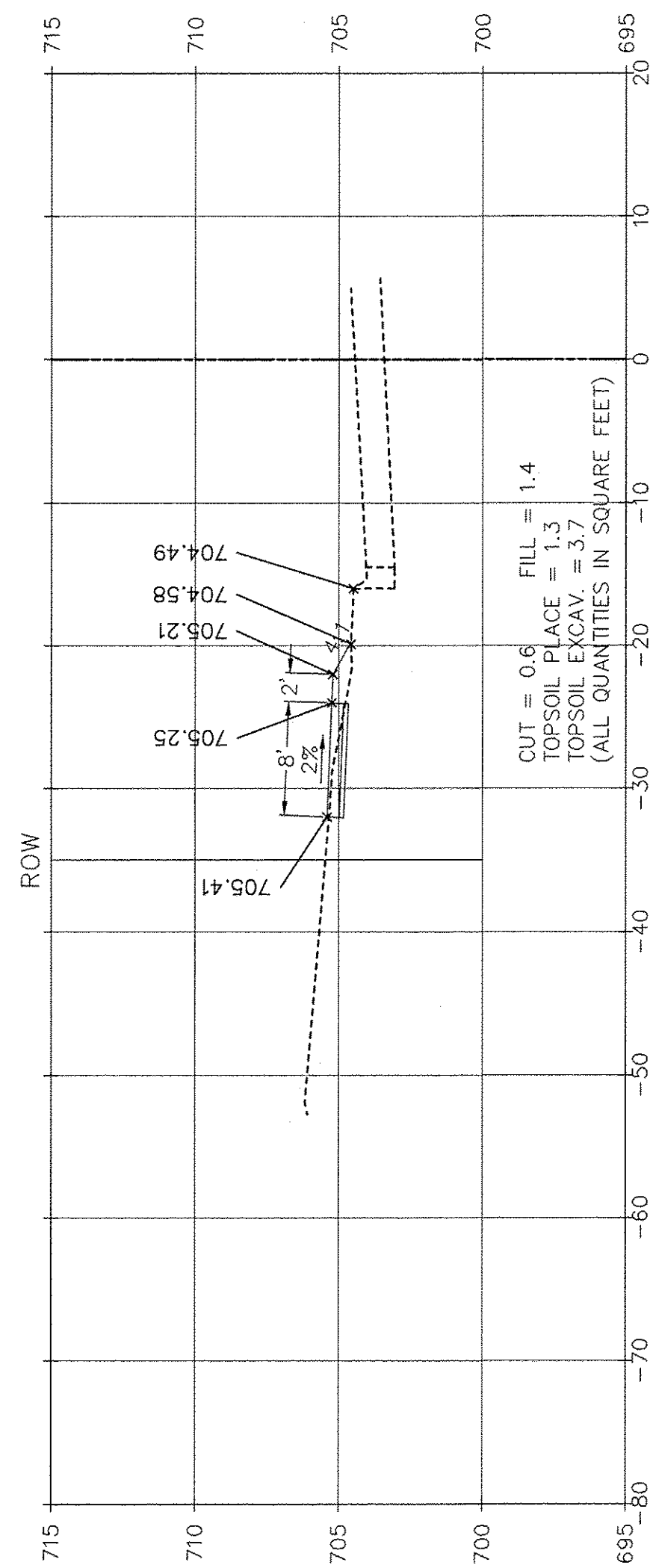
31  
+  
50



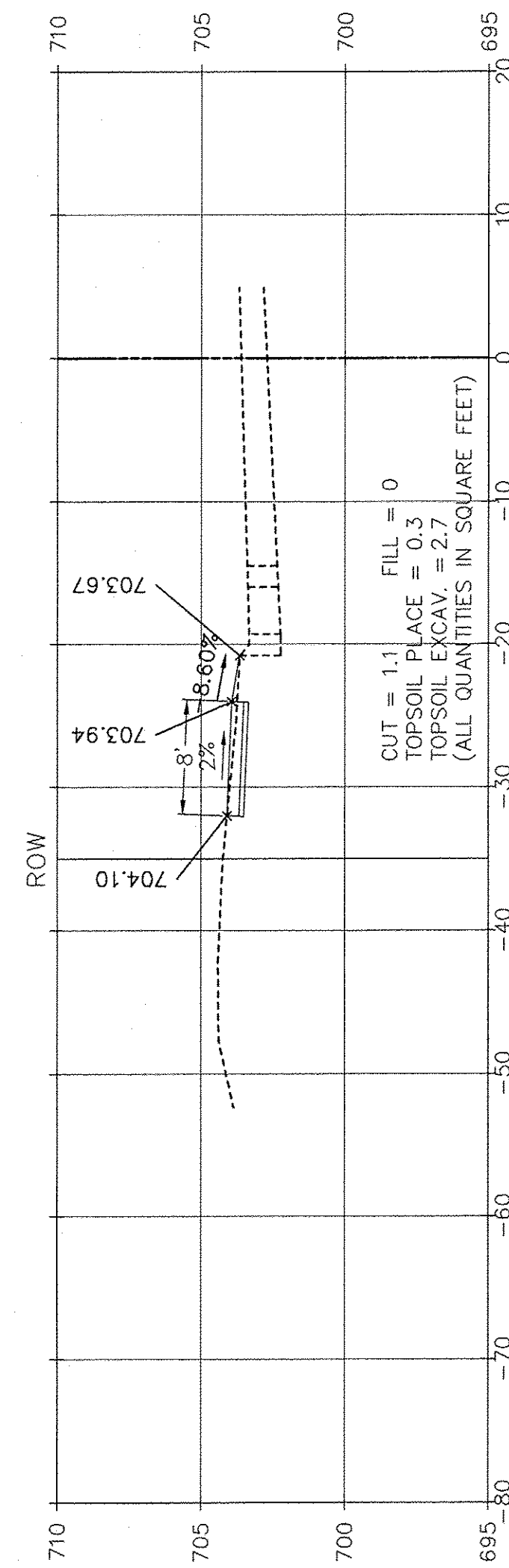
31  
+  
00



30  
+  
50



30  
+  
00



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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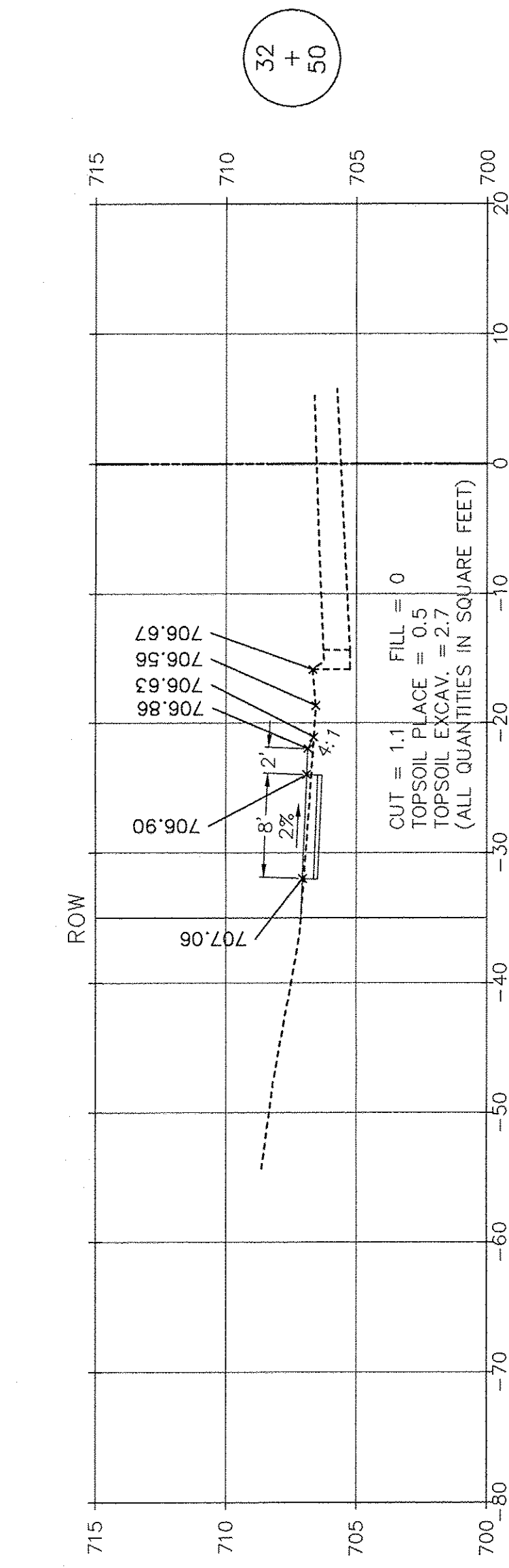
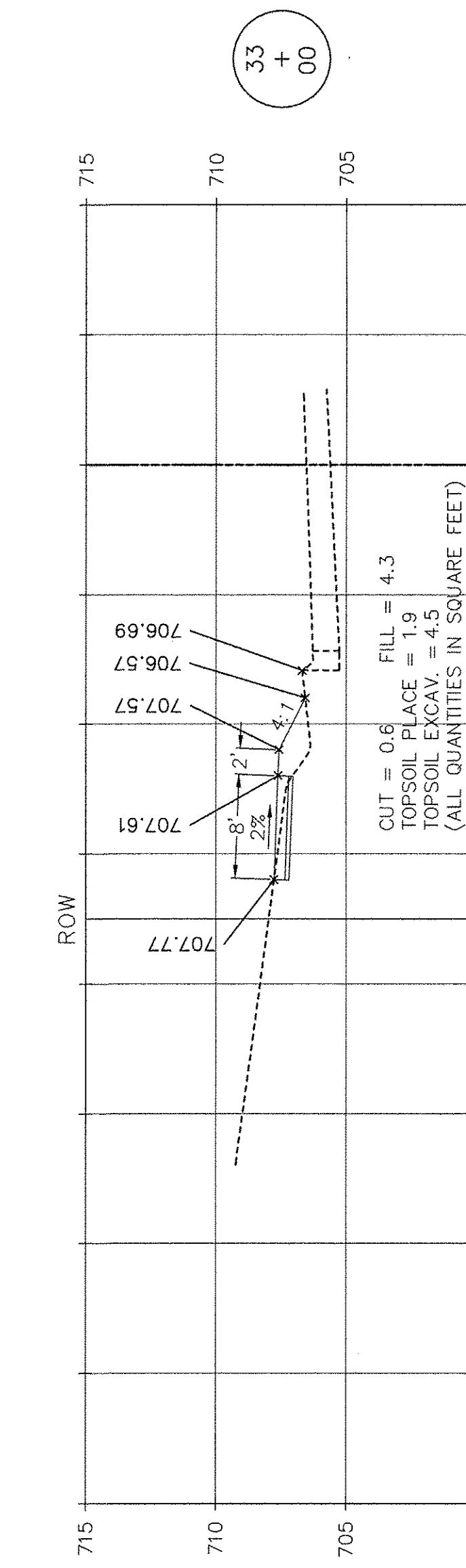
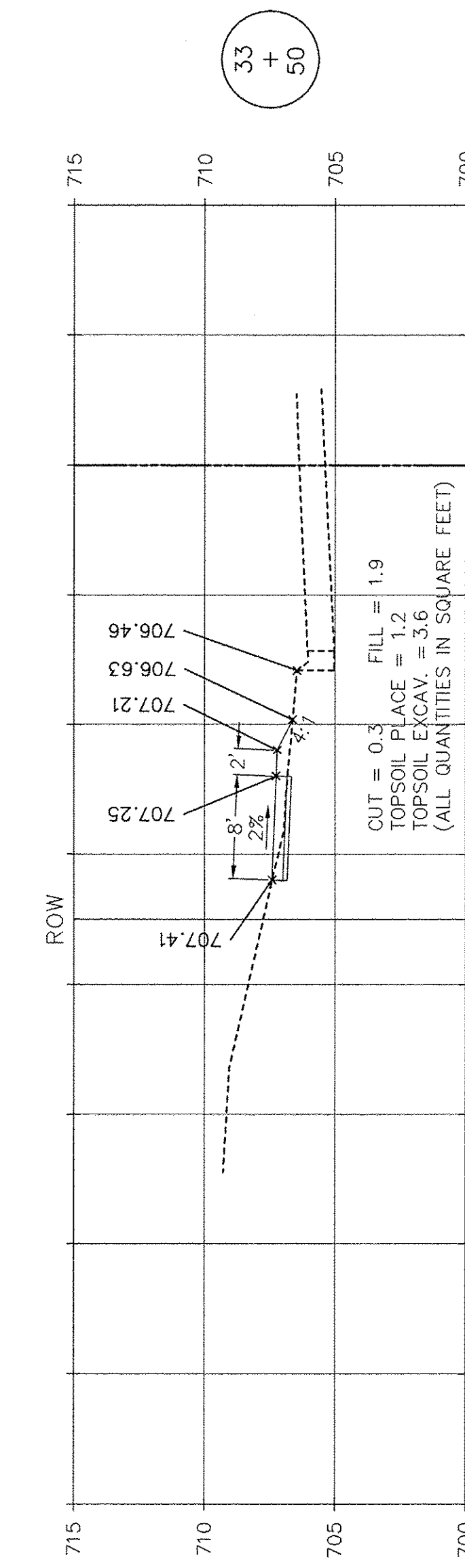
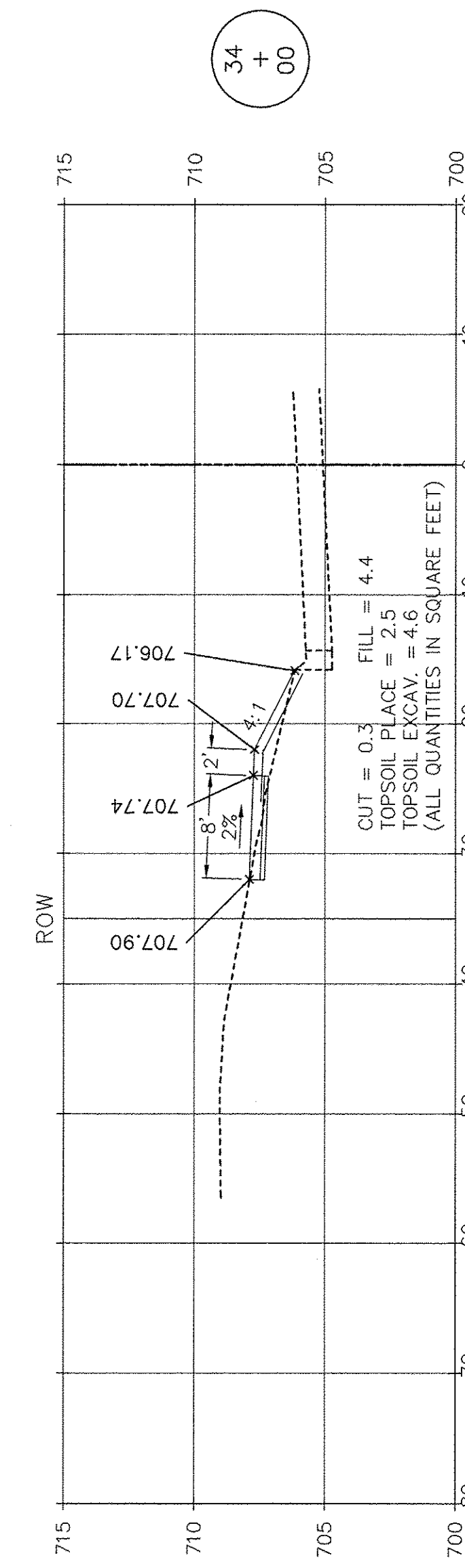
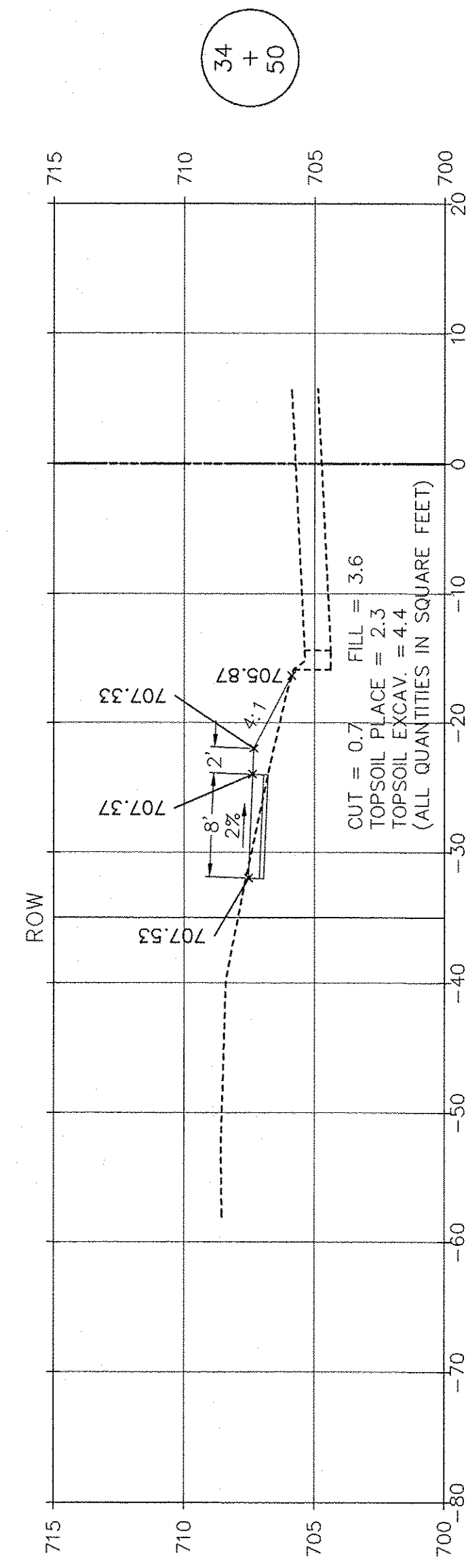
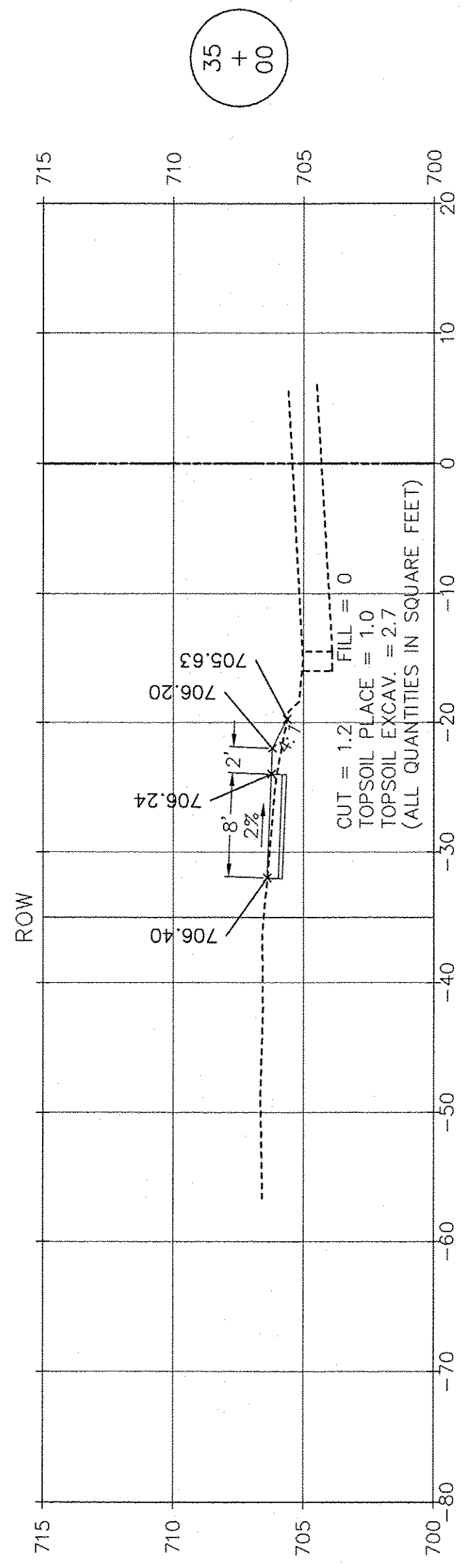
FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016
		DRAWN ECH @ RTA	REVISED
		CHECKED JPH @ RTA	REVISED
		DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FARRELL ROAD - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	90
ILLINOIS FEDERAL AID PROJECT			CONTRACT NO. 61D48	

SCALE: AS NOTED SHEET NO. 9 OF 12 SHEETS STA. 30+00 TO STA. 32+00

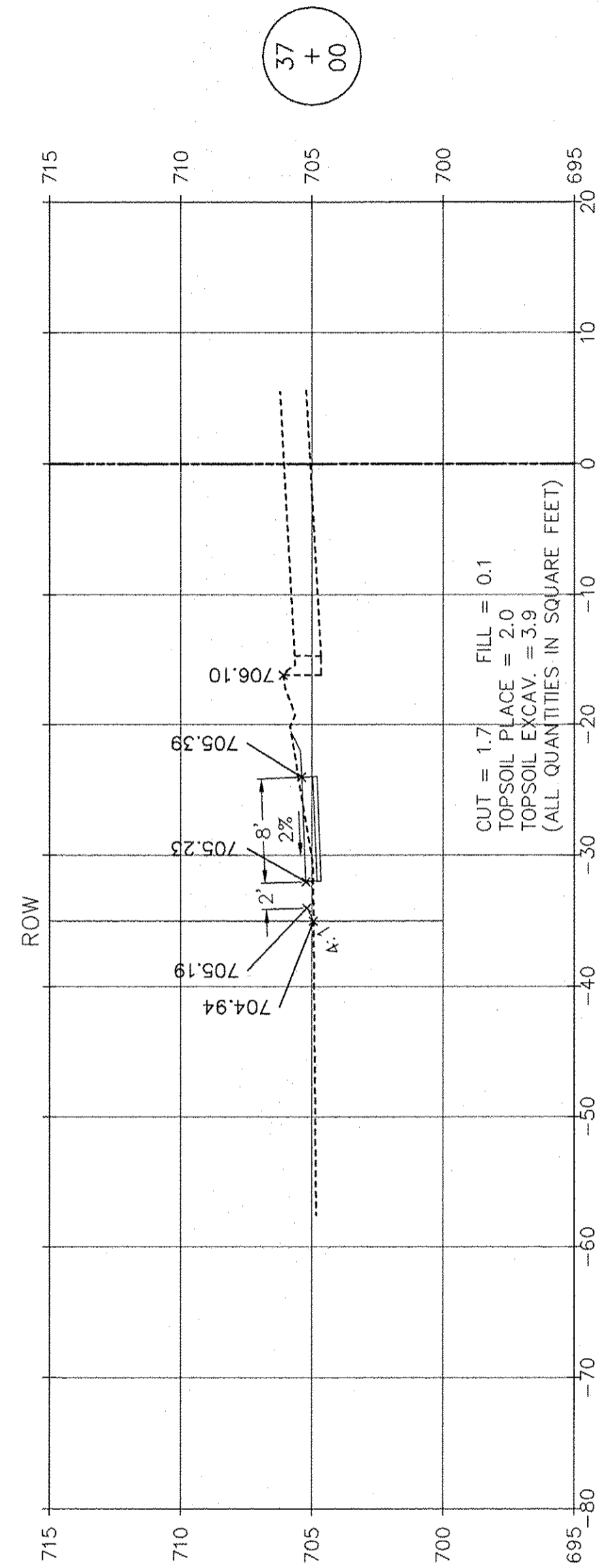


SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

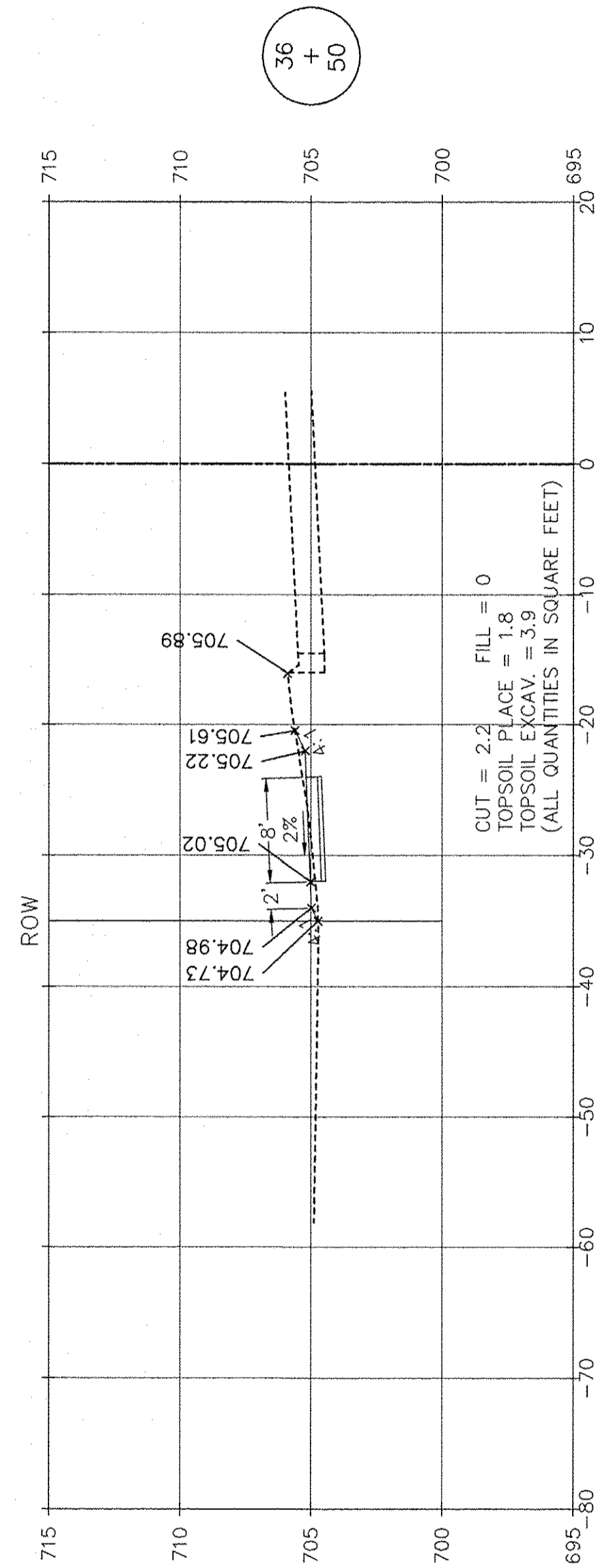
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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FARRELL ROAD - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN ECH @ RTA	REVISED		SCALE: AS NOTED	SHEET NO. 10 OF 12 SHEETS	STA. 32+50 TO STA. 35+00	363 / 291 / 366	10-00072-00-BT	WILL	93	91
	PLOT DATE =	CHECKED JPH @ RTA	REVISED							CONTRACT NO. 61D48		
		DATE 7-30-2015	REVISED				ILLINOIS FEDERAL AID PROJECT					

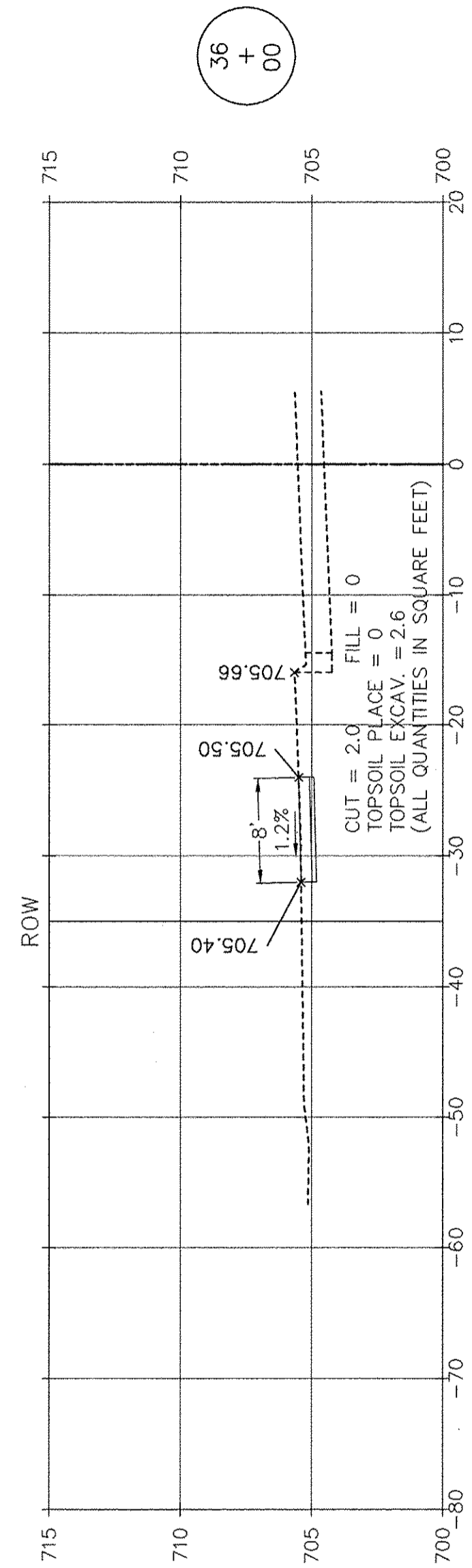




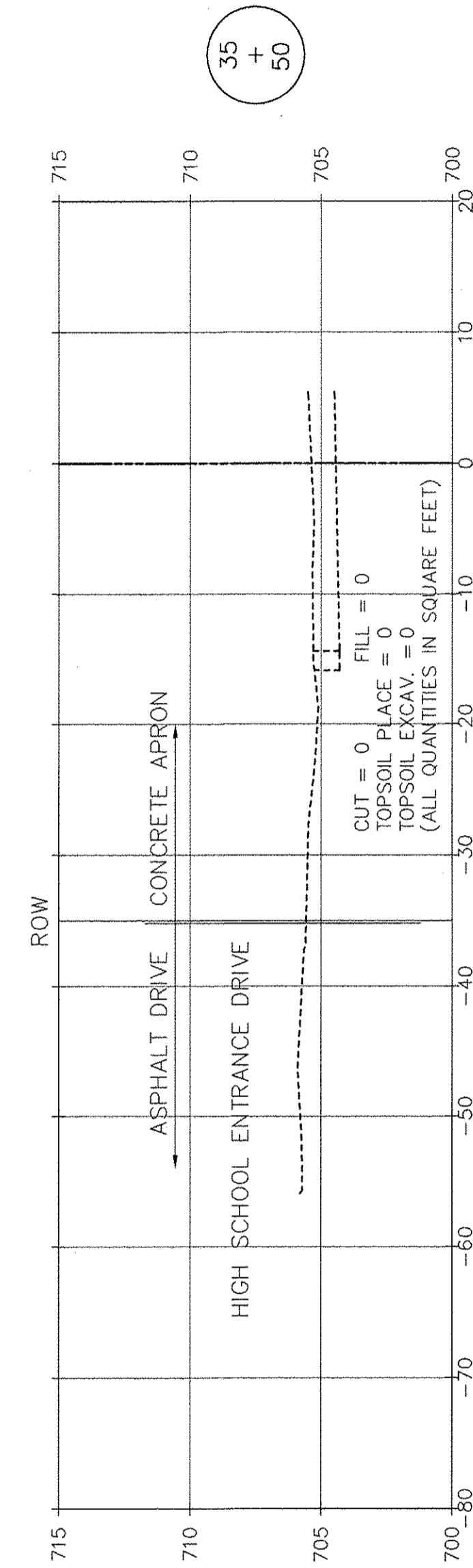
37  
+  
00



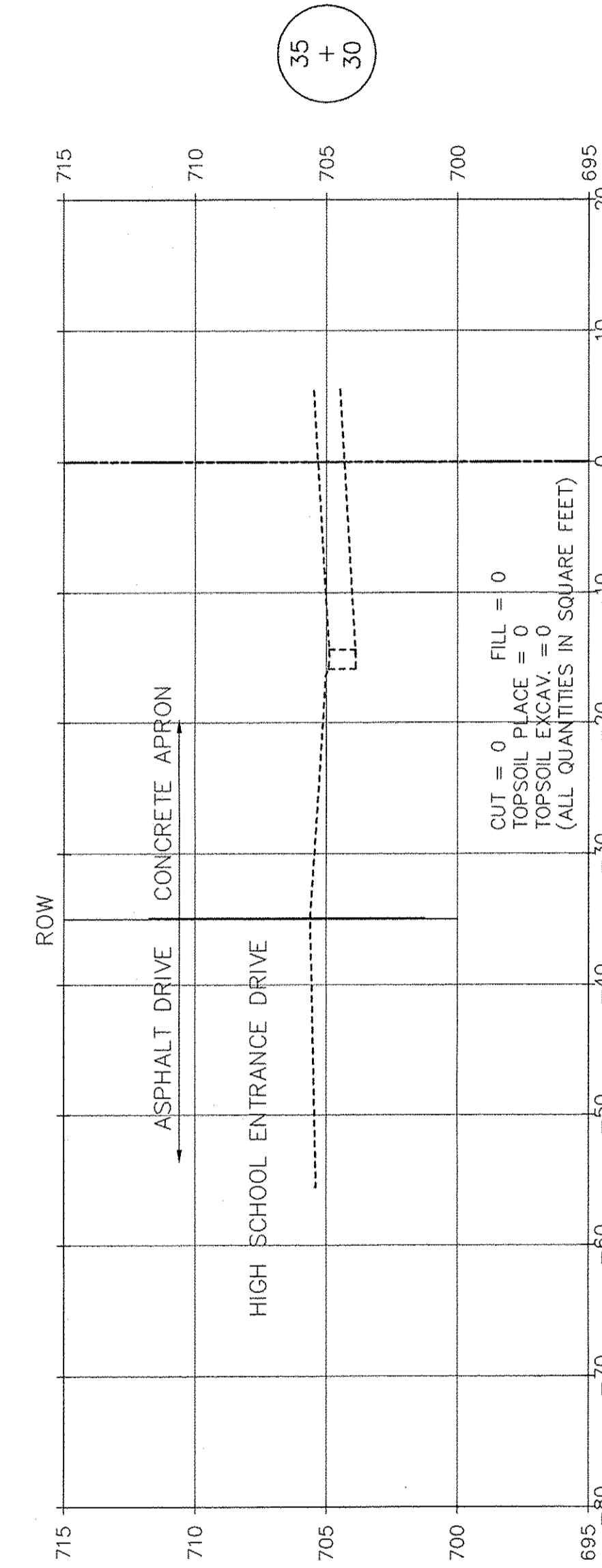
36  
+  
50



35  
+  
00



35  
+  
30

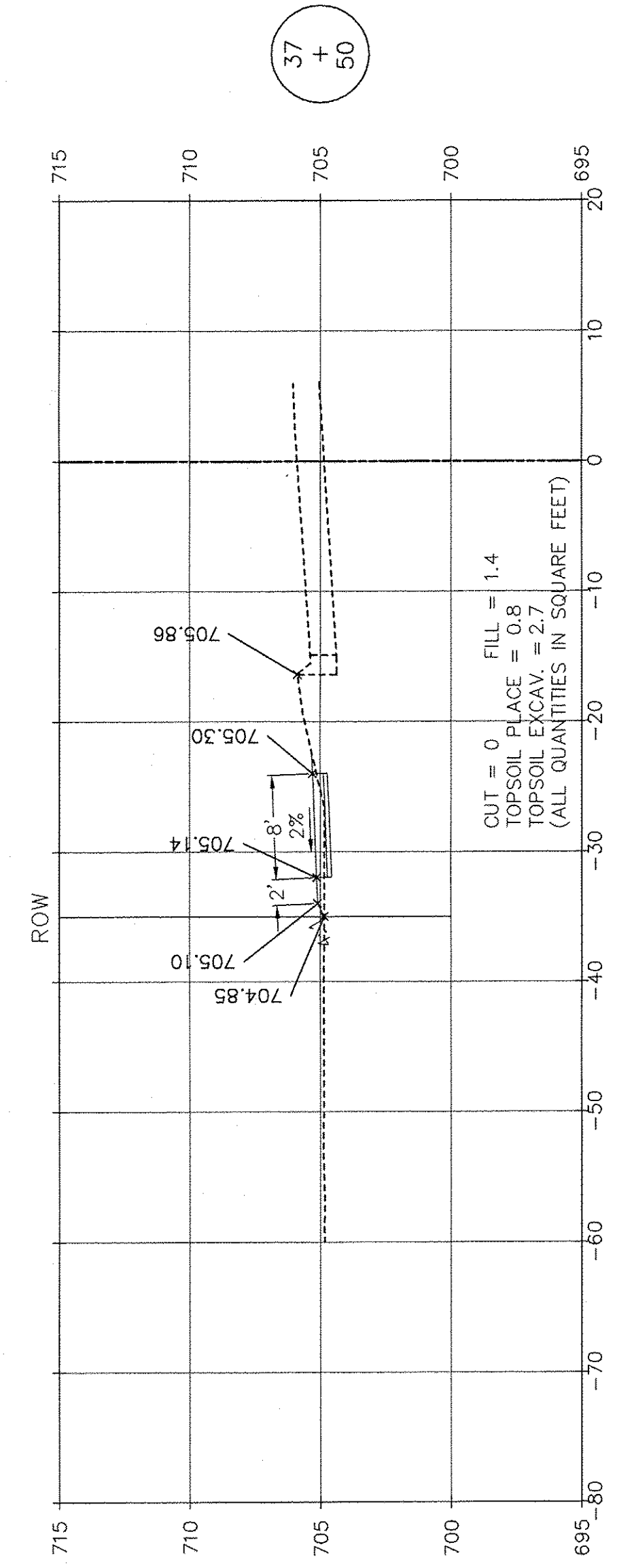
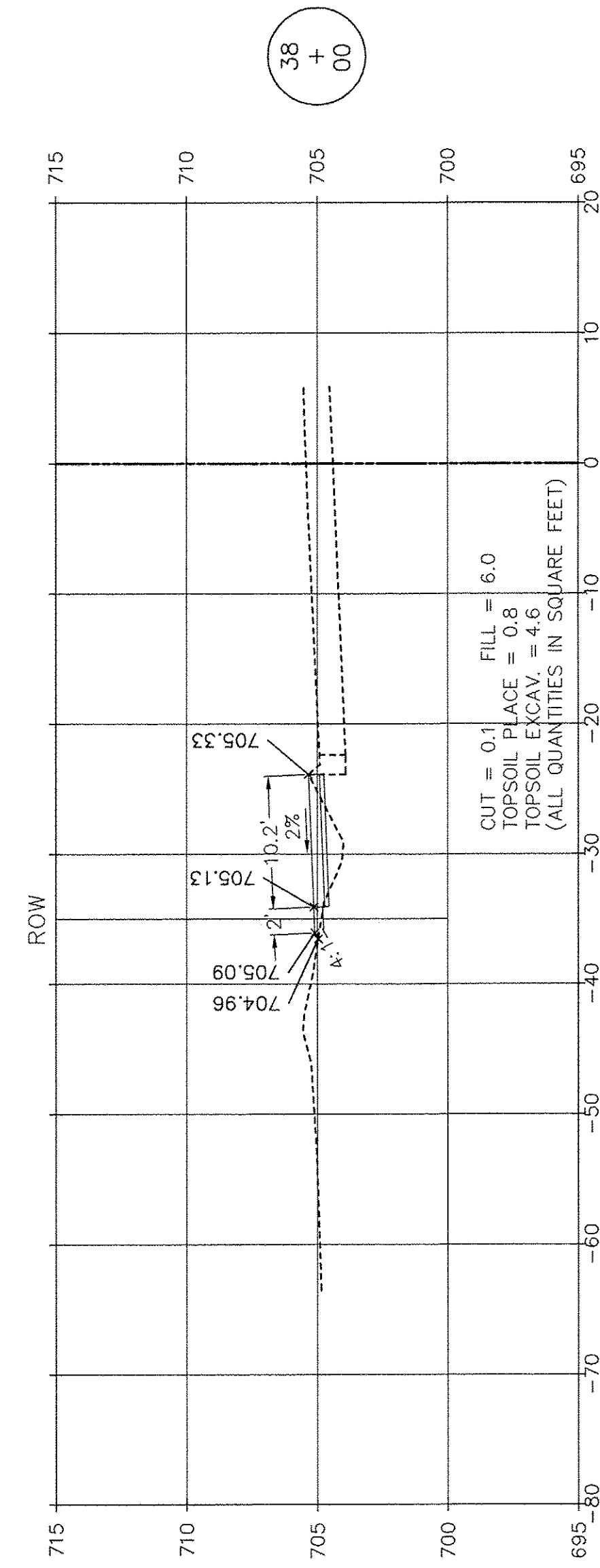
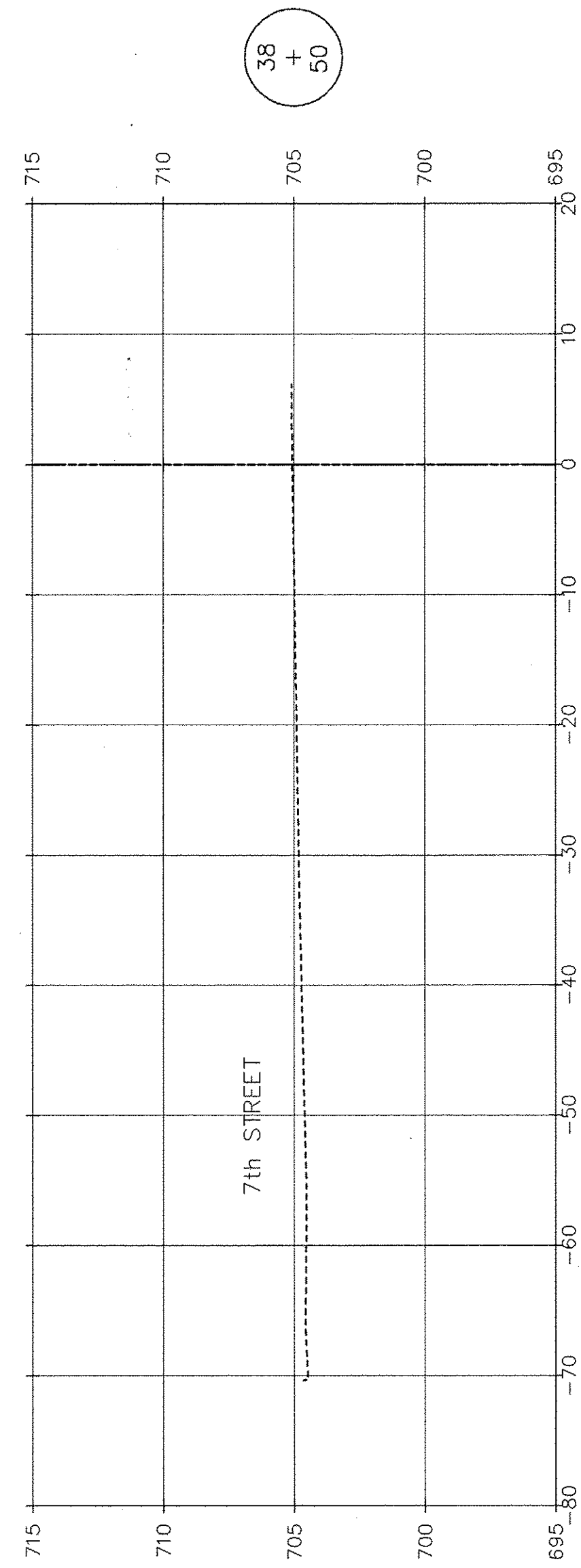
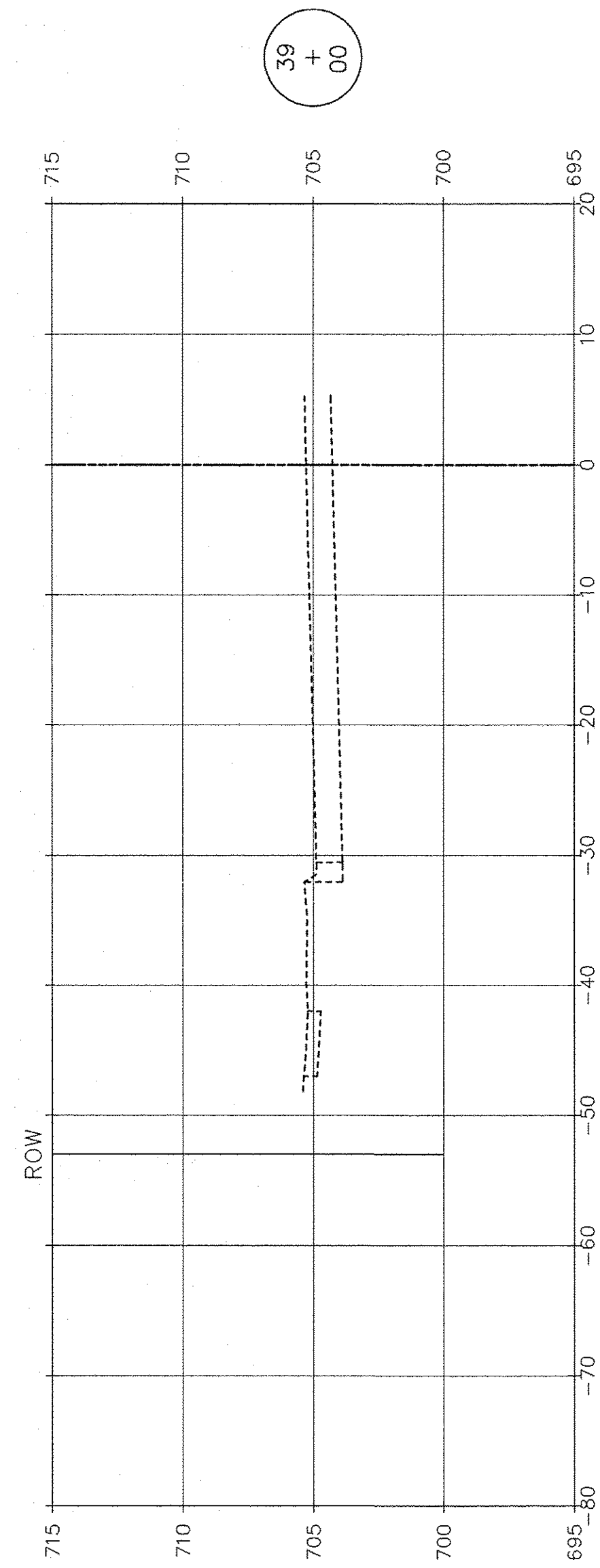


35  
+  
30

SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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FILE NAME:	USER NAME =	DESIGNED JPH @ RTA	REVISED 12-28-2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FARRELL ROAD - CROSS SECTIONS BRIGGS STREET, DIVISION STREET AND FARRELL ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED JPH @ RTA	REVISED							CONTRACT NO. 61D48		
		DATE 7-30-2015	REVISED							ILLINOIS FEDERAL AID PROJECT		



SCALE: 1" = 10' HORIZ.  
1" = 5' VERT.

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		DRAWN ECH @ RTA	REVISED
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	PLOT DATE =	DATE 7-30-2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FARRELL ROAD - CROSS SECTIONS  
BRIGGS STREET, DIVISION STREET AND FARRELL ROAD  
 SCALE: AS NOTED SHEET NO. 12 OF 12 SHEETS STA. 37+50 TO STA. 39+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 / 291 / 366	10-00072-00-BT	WILL	93	93
		CONTRACT NO. 61D48		
ILLINOIS FEDERAL AID PROJECT				