

F.A.U. RTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO: 83988				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

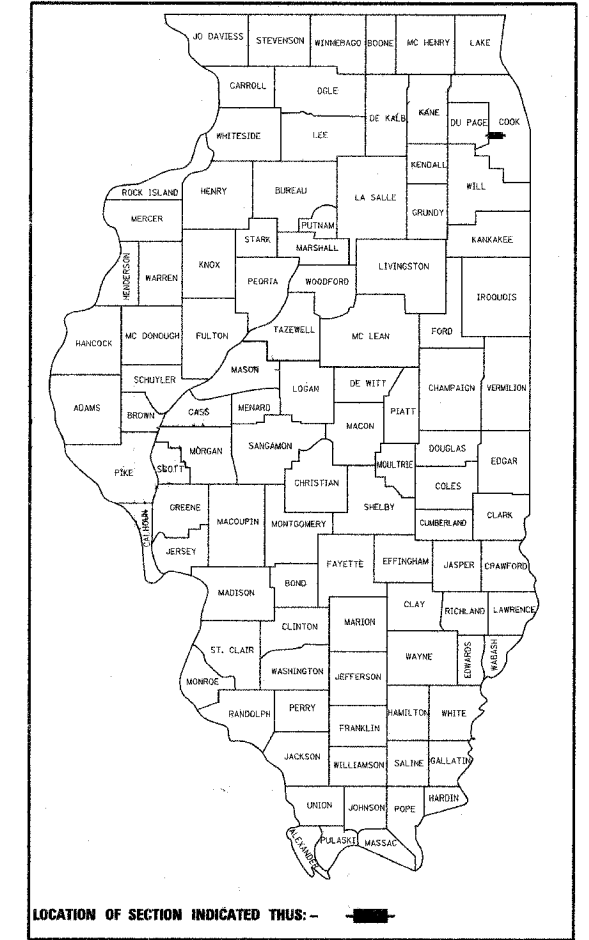
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.U. ROUTE 3783 (BURLINGTON AVE.)
WOLF RD. (F.A.U. 2689) TO GILBERT AVE. (F.A.U. 2697)

SECTION: 00-00080-00-FP
ROADWAY RECONSTRUCTION

PROJECT: M-8003(333)
VILLAGE OF WESTERN SPRINGS
COOK COUNTY
C-91-053-04



LOCATION OF SECTION INDICATED THUS: -

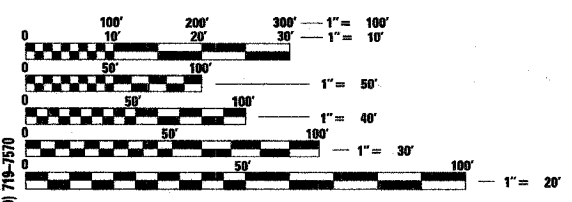
TRAFFIC DATA
ADT:

BURLINGTON AVE. = 3250 (2025)

SPEED LIMIT:

BURLINGTON AVE. = 20 MPH (POSTED)
30 MPH (DESIGN)

PROJECT LOCATED IN
VILLAGE OF WESTERN SPRINGS

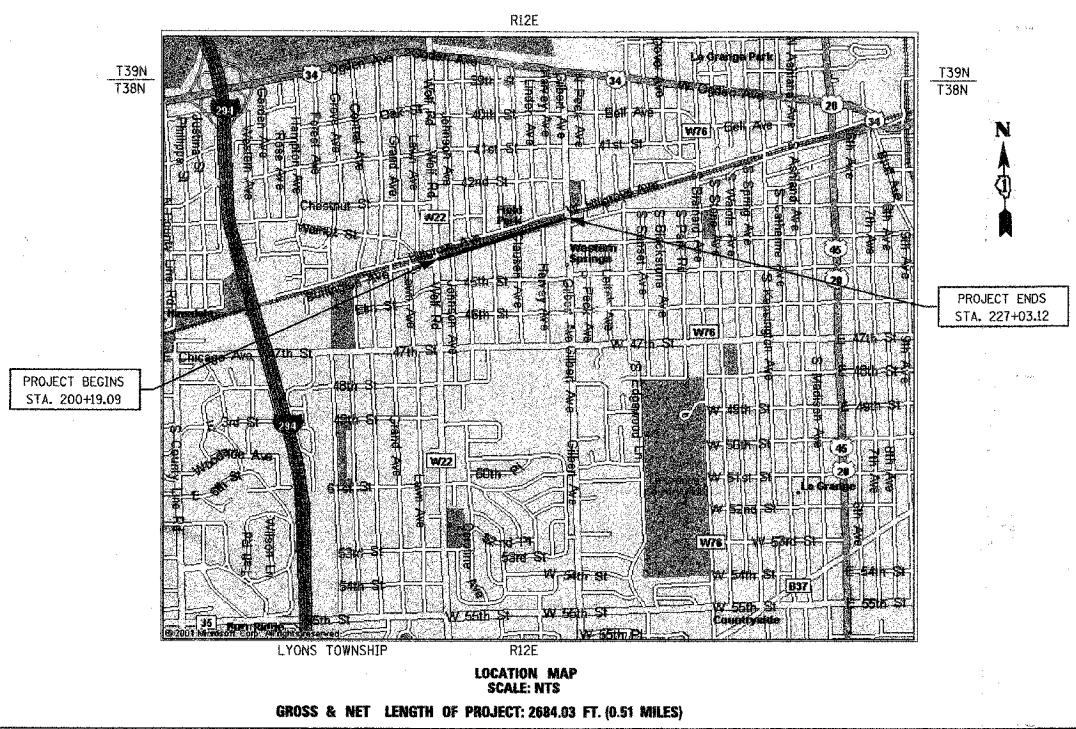


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 83988
DESIGN DESIGNATION: COLLECTOR

ASSOCIATE FIELD ENGINEER: JESSICA FELICIANO (847) 705-4487
CONSULTANT: JAMES J. BENES & ASSOCIATES, INC. (630) 719-7570



LOCATION MAP
SCALE: NTS
GROSS & NET LENGTH OF PROJECT: 2684.03 FT. (0.51 MILES)

AGENCY RESPONSIBLE FOR LETTING

Approved: *William M. White*
9.27.07
Village of Western Springs, Director of Municipal Services

Passed: *Christopher J. ...*
NOVEMBER 6, 2007
District #1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *Biane O. Kapelewa*
Nov. 7, 2007
Deputy Director Of Highways, Region #1 Engineer

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

JJB JAMES J. BENES & ASSOCIATES
CONSULTING ENGINEERS
950 WARRENVILLE ROAD, SUITE 101
LISLE, IL 60532
(630) 719-7570
SIGNATURE: *James J. Benes*
DATE: 9/27/07
IL LICENSE NO: 062-034438
EXP. DATE: NOVEMBER 30, 2009
FIELD: JAMES J. BENES AND ASSOCIATES, INC.
CIVIL ENGINEERING
(SHEETS 1-49)

F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783 00-0080-00-FP	COOK	49	2
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
CONTRACT NO. 83988			

INDEX OF DRAWINGS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7-8 SCHEDULE OF QUANTITIES
- 9 ALIGNMENT AND BENCH MARKS
- 10 TRAFFIC CONTROL PLAN
- 11 STAGING PLAN
- 12-16 PLAN AND PROFILE
- 17-21 DRAINAGE AND UTILITY PLANS - BURLINGTON AVENUE
- 22 DRAINAGE AND UTILITY PLANS - JOHNSON AVENUE
- 23 WATER MAIN CONNECTIONS DETAILS
- 24 WATER MAIN DETAILS
- 25 PAVEMENT MARKING AND SIGNAGE PLAN
- 26 STORMWATER POLLUTION PREVENTION PLAN
- 27 STREET LIGHTING MODIFICATIONS AND PROPOSED CONDUIT PLAN
- 28-29 CONSTRUCTION DETAILS
- 30-33 DISTRICT DETAILS
- 34-49 CROSS SECTIONS

LIST OF STATE STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420101-04 7.2 m (24') JOINTED PCC PAVEMENT
- 420111-02 PCC PAVEMENT ROUNDOUTS
- 420701-02 PAVEMENT FABRIC
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 442101-07 CLASS B PATCHES
- 442201-03 CLASS C AND D PATCHES
- 602001 CATCH BASIN TYPE A
- 602301-01 INLET TYPE A
- 602401-01 MANHOLE TYPE A
- 602501 VALVE VAULT TYPE A
- 602601-01 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-01 CAST IRON STEPS
- 604001-02 FRAME AND LIDS TYPE 1
- 604006-03 FRAME AND GRATE TYPE 3
- 604086-01 FRAME AND GRATE TYPE 23
- 606001-03 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-0 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
- 701801-03 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901 TRAFFIC CONTROL DEVICES
- 814001-01 CONCRETE HANDHOLES

COMMITMENTS: NONE

C.C.H.D. CONSTRUCTION NOTES

(FOR PLACEMENT OF P.C.C. PAVEMENT, MEDIAN, AND CURB AND GUTTER)

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. SAW CUT THE FULL DEPTH OF EXISTING PAVEMENT, MEDIAN, AND CURB AND GUTTER, AT THE LIMITS OF REMOVAL.
3. PAVEMENT AND TYPE C-4 MEDIAN SHALL BE 10 INCH DEPTH P.C. CONCRETE, WITH PAVEMENT FABRIC, ON 6 INCH SUBBASE GRANULAR MATERIAL, TYPE B.
4. CONSTRUCT PAVEMENT FABRIC IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420701, AND PROVIDE 3 1/2 INCHES OF CLEARANCE BETWEEN THE PAVEMENT SURFACE AND THE TOP OF THE FABRIC.
5. DISREGARD ALL DETAILS AND NOTES REGARDING PAVEMENT BLOCKOUT ON I.D.O.T. STANDARD NO. 420701, AND COMPLY WITH I.D.O.T. STANDARD NO. 420111 AT ALL DRAINAGE/UTILITY STRUCTURE LOCATIONS.
6. WHERE THE PROPOSED PAVEMENT OR TYPE C-4 MEDIAN ABUTS THE EXISTING PAVEMENT LONGITUDINALLY, PROVIDE A TIED LONGITUDINAL CONSTRUCTION JOINT IN ACCORDANCE WITH I.D.O.T. STANDARD 420001, USING 3/4 INCH DIAMETER TIE BARS AT 24 INCH CENTERS.
7. WHERE THE PROPOSED PAVEMENT OR TYPE C-4 MEDIAN ABUTS THE EXISTING PAVEMENT OR TYPE C-4 MEDIAN TRANSVERSELY, PROVIDE A TRANSVERSE JOINT IN ACCORDANCE WITH I.D.O.T. STANDARD 442101, USING 1 1/2 INCH DIAMETER DOWEL BARS AT 12 INCH CENTERS.
8. PROVIDE TRANSVERSE SAWED CONTRACTION JOINTS EVERY 40 FEET IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420001, USING 1 1/2 INCH DIAMETER DOWEL BARS AT 12 INCH CENTERS, AND ALIGN PROPOSED JOINTS WITH EXISTING JOINTS. SAWED GROOVE AND JOINT SEAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.C.H.D. DETAIL (DISREGARD SAWED CONTRACTION JOINT DETAIL SHOWN ON I.D.O.T. STANDARD).
9. IF A PROPOSED TRANSVERSE SAW CUT IS LOCATED LESS THAN 10 FEET FROM AN EXISTING TRANSVERSE JOINT, THEN THE EXISTING PAVEMENT OR TYPE C-4 MEDIAN SHALL BE REMOVED AND REPLACED UP TO THE EXISTING TRANSVERSE JOINT.
10. PAVEMENT PATCHES SHALL BE CLASS B, CONSTRUCTED IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 442101, AND SHALL EXTEND THE FULL WIDTH OF THE EXISTING LANE(S). WHERE PATCHING MORE THAN ONE LANE WIDTH, PROVIDE A TIED LONGITUDINAL JOINT (CONSTRUCTION OR SAWED) BETWEEN LANES, IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420001. C.C.H.D. CONSTRUCTION NOTES NO. 1 THROUGH 8 SHALL APPLY TO THE CONSTRUCTION OF CLASS B PATCHES.
11. CURB AND GUTTER SHALL BE CONSTRUCTED AND TIED INTO ABUTTING EXISTING OR PROPOSED P.C.C. PAVEMENT IN ACCORDANCE WITH I.D.O.T. STANDARD NOS. 606001 AND 420001, USING 3/4 INCH DIAMETER TIE BARS AT 24 INCH CENTERS.
12. ~~CONSTRUCT TYPE C-4 AND TYPE M-7 MEDIANS IN ACCORDANCE WITH THE C.C.H.D. MEDIAN STANDARD.~~
13. ~~PLACEMENT OF CATCH BASINS WITHIN TYPE M-7 MEDIAN SHALL BE IN ACCORDANCE WITH THE C.C.H.D. POLICY FOR DRAINING TYPE M-7 MEDIAN STANDARD.~~
14. ~~WHERE A MEDIAN OPENING IS PROVIDED, THE PAVEMENT SHALL BE GROWNED AT THE CENTERLINE USING A ONE PERCENT CROSS SLOPE.~~
15. INCLUDE APPLICABLE I.D.O.T. AND C.C.H.D. STANDARDS IN THE PLANS.
16. ALL TRENCHES WITHIN THE COUNTY RIGHT OF WAY SHALL BE BACKFILLED WITH FA-6 SAND IN ACCORDANCE WITH ARTICLE 550.07 OF THE I.D.O.T. STANDARD SPECIFICATIONS. THE BACKFILLING MUST EXTEND UP TO THE PROPOSED SUBBASE IN PAVEMENT SECTIONS.

C.C.H.D. CONSTRUCTION NOTES APPLY TO AREA WITHIN COOK COUNTY RIGHT-OF-WAY AT INTERSECTION OF BURLINGTON AVENUE AND WOLF ROAD.

GENERAL NOTES

1. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL GIVE THE MUNICIPALITY THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. (JAMES J. BENES AND ASSOCIATES, INC. (630) 719-7570)
3. ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
5. NEITHER THE ENGINEER, NOR THE OWNER, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE OWNER, SHALL 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.
6. 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.
7. 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.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.
9. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF EXISTING STORM SEWERS PRIOR TO THE CONSTRUCTION OF PROPOSED STORM SEWER.
10. THE RELOCATION OF SIGNS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
11. 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.)
12. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
13. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS FOR EACH TYPE I OR TYPE II BARRICADE USED, ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
14. 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. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
15. STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE. OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERLY ALIGNED WITH THE PROPOSED CURB AND GUTTER.
16. TRANSVERSE PAVEMENT JOINTS SHALL BE SPACED AT A MAXIMUM OF 12 FEET.
17. ALL STRUCTURE (MANHOLE, CATCH BASIN AND INLET) CONNECTIONS SHALL MEET THE REQUIREMENTS FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923.
18. THE USE OF STEEL PLATES WILL NOT BE PERMITTED WITHIN THE COOK COUNTY RIGHT-OF-WAY. ALL TRENCHES WITHIN THE COOK COUNTY RIGHT-OF-WAY MUST HAVE A MINIMUM OF 3 INCHES TEMPORARY BITUMINOUS BITUMINOUS SURFACE PROVIDED WHICH SHALL BE PAID FOR AS BITUMINOUS MIXTURE FOR PATCHING POTHoles (HOT MIX).

LIST OF DISTRICT ONE DETAILS

- BD-38 FIRE HYDRANT TO BE MOVED
- BD-48 PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

INDEX OF DRAWINGS,
GENERAL NOTES AND
IDOT STANDARD DRAWINGS

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

MWRD NOTES

1. THE MWRD LOCAL SEWER PERMIT SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK (CALL 708-588-4055.)
2. ELEVATION DATUM IS U.S.G.S.
3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

Pipe Material Spec.	Joint Spec.	Pipe Material Spec.	Joint Spec.
<u>Vitrified Clay Pipe</u>		<u>PVC Gravity Sewer Pipe</u>	
VCP C-700	C-425	6"-15" dia. SDR 26	
VCP (No-Bell) C-700		D-3034	D-3212 or D-2855
Joint Collar	C-425 D-1784		
<u>Concrete Pipe C-14</u>	C-443	18"-27" dia. F/dy=46	D-3212 or D-2855
RCP C-76	C-443	F-679	
ACP C-428	D-1869		
<u>ABS Sewer Pipe</u>		CISP A-74	C-564
Solid Wall 6" dia. SDR 23.5		DIP A-21.51	A-21.11
ABS D-2751	D-2751		
<u>ABS Composite/Truss Pipe</u>			
8"-15" dia.			
ABS D-2680	D-2680		
6. ALL SANITARY SEWER CONSTRUCTION, (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES.

7. "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
 2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING A "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
9. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
10. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 83988				

SUMMARY OF QUANTITIES								
CODE NO.		UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	VILLAGE	VILLAGE	SANITARY SEWER
				70% FED 30% VILLAGE J000-2A	ADJUSTMENTS 70% FED 30% VILLAGE Y030-1E	LIGHTING 100% VILLAGE Y030-1E	WATER MAIN 100% VILLAGE Y060	REPAIR 100% VILLAGE Y060
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	78	78				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,851	2,851				
20400800	FURNISHED EXCAVATION	CU YD	276	276				
20800200	GRANULAR EMBANKMENT, SPECIAL	CU YD	157	157				
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	3,150	3,150				
20800150	TRENCH BACKFILL	CU YD	1,124	1,124				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,150	3,150				
21101615	TOP SOIL FURNISH AND PLACE, 4"	SQ YD	5,500	5,500				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70				
25200100	SODDING	SQ YD	5,500	5,500				
25200200	SUPPLEMENTAL WATERING	UNIT	165	165				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	5	5				
28000400	PERIMETER EROSION BARRIER	FOOT	465	465				
28000510	INLET FILTERS	EACH	23	23				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	13,708	13,708				
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	163	163				
40200800	AGGREGATE SURFACE COURSE TYPE B	TONS	2400	2400				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TONS	1	1				
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TONS	26	26				
42000200	PORTLAND CEMENT CONCRETE PAVEMENT 7"	SQ YD	3,514	3,514				
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	8,003	8,003				
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	154	154				
42001200	PAVEMENT FABRIC	SQ YD	138	138				
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	759	759				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	12,347	12,347				
42400800	DETECTABLE WARNINGS	SQ FT	300	300				
44000100	PAVEMENT REMOVAL	SQ YD	10,844	10,844				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	725	725				
44000300	CURB REMOVAL	FOOT	102	102				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	6,952	6,952				
44000600	SIDEWALK REMOVAL	SQ FT	10,213	10,213				
44200911	CLASS B PATCHES, TYPE IV, 6 INCH	SQ YD	225	225				
44201349	CLASS C PATCHES, TYPE I, 10 INCH	SQ YD	4	4				
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	16	16				
50300300	PROTECTIVE COAT	SQ YD	16,672	16,672				
550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	291	291				
550A2740	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 3 18"	FOOT	224	224				
* 56103100	DUCTILE IRON WATER MAIN, 8"	FOOT	410				410	
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	5	5				
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	30	30				

* - DENOTES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

SUMMARY OF QUANTITIES

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				

CODE NO.		UNIT	TOTAL QUANTITY	SUMMARY OF QUANTITIES				
				ROADWAY 70% FED 30% VILLAGE J000-2A	LIGHTING ADJUSTMENTS 70% FED 30% VILLAGE Y030-1E	VILLAGE LIGHTING 100% VILLAGE Y030-1E	VILLAGE WATER MAIN 100% VILLAGE Y060	SANITARY SEWER REPAIR 100% VILLAGE Y060
60200205	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME CLOSED LID	EACH	2	2				
60200305	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3 FRAME AND GRATE	EACH	8	8				
60201330	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 23 FRAME AND GRATE	EACH	11	11				
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5				
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5				
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4				
60228110	MANHOLES, SANITARY, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8	8				
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	5	5				
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	3	3				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1				
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1				
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1				
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2				
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	7	7				
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1				
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	2	2				
60266300	VALVE VAULTS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6	6				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1				
60500040	REMOVING MANHOLES	EACH	11	11				
60500050	REMOVING CATCH BASINS	EACH	1	1				
60500060	REMOVING INLETS	EACH	2	2				
60500105	FILLING MANHOLES	EACH	2	2				
60500205	FILLING CATCH BASINS	EACH	10	10				
60500305	FILLING INLETS	EACH	6	6				
60500405	FILLING VALVE VAULTS	EACH	4	4				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	2,275	2,275				
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	8,949	8,949				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	600	600				
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
66900500	BETX SOIL ANALYSIS	EACH	1	1				
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7				
67100100	MOBILIZATION	L SUM	1	1				
70102620	TRAFFIC CONTROL AND PROTECTION STANDARD 701501	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	L SUM	1	1				
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS & SYMBOLS	SQ FT	36.4	36.4				
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	7,124	7,124				
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	126	126				
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	792	792				
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	101	101				

* - DENOTES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

SUMMARY OF QUANTITIES

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

SUMMARY OF QUANTITIES									
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	VILLAGE	VILLAGE	SANITARY SEWER	
				70% FED 30% VILLAGE J000-2A	ADJUSTMENTS 70% FED 30% VILLAGE Y030-1E	LIGHTING 100% VILLAGE Y030-1E	WATER MAIN 100% VILLAGE Y060	REPAIR 100% VILLAGE Y060	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	175			175			
81400100	HANDHOLE	EACH	3			3			
81400115	HANDHOLE TO BE ADJUSTED	EACH	1		1				
* 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	950		950				
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2,850		2,850				
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	255		80	175			
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO.14 1/C	FOOT	1,185			1,185			
X8440116	RELOCATE EXISTING LIGHTING UNIT, SPECIAL	EACH	8		8				
XX000868	SELECT GRANULAR BACKFILL	CU YD	450				450		
XX003338	TEST HOLES	EACH	5	5					
XX003360	STORM SEWERS PVC (SDR 26), 12"	FOOT	407	407					
XX003570	STORM SEWERS POLYVINYL CHLORIDE, STANDARD DIMENSION RATION 26, 15"	FOOT	144	144					
* XX004687	UNIT DUCT, WITHOUT CABLE, DIRECTIONAL BORED, 1-1/2"	FOOT	1,185			1,185			
XX004688	BRICK PAVER SIDEWALK	SQ FT	1,982	1,982					
* XX004697	WATER SERVICE, NEAR SIDE, 1-1/2"	EACH	2				2		
* XX004699	SANITARY SEWER REMOVAL AND REPLACEMENT, 12"	FOOT	204					204	
* XX004700	SANITARY SEWER REMOVAL AND REPLACEMENT, 15"	FOOT	45					45	
XX005277	STORM SEWERS, PVC SDR 26, 8"	FOOT	16	16					
* XX005281	STEEL CASING PIPE 16" (BORED AND JACKED)	FOOT	30				30		
* XX011700	WATER MAIN FITTINGS	POUND	528				528		
Z0004900	BITUMINOUS MIXTURE FOR PATCHING POTHOLES (HOT MIX)	TON	90	90					
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Z0019600	DUST CONTROL WATERING	UNIT	20	20					
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
△ Z0076600	TRAINEES	HOUR	1000	1000					
XX007167	STORM SEWERS, PVC SDR 26 (C900), 18"	FOOT	140	140					
XX007168	DROP SANITARY MANHOLES, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2					
* XX004689	SANITARY SERVICE TO BE ADJUSTED	EACH	1	1					
* XX003213	ADJUSTING WATER SERVICES LINES	EACH	1	1					
* XX007169	NON-PRESSURE CONNECTION	EACH	3				3		
* XX007170	GATE VALVE 8" IN 4 FT DIA VALVE VAULT, TYPE 1 FRAME, CLOSED LID	EACH	3				3		

* - DENOTES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

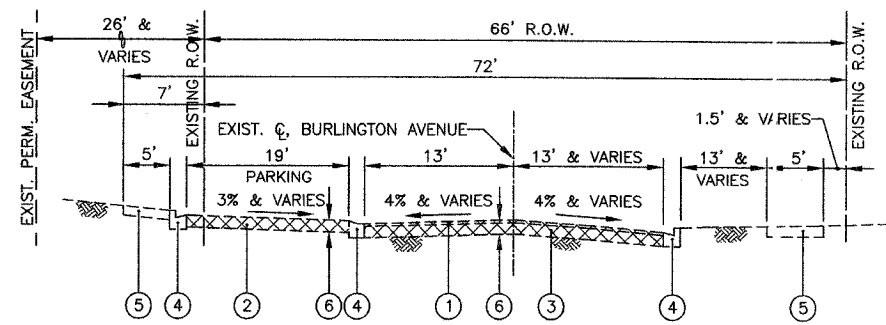
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

SUMMARY OF QUANTITIES

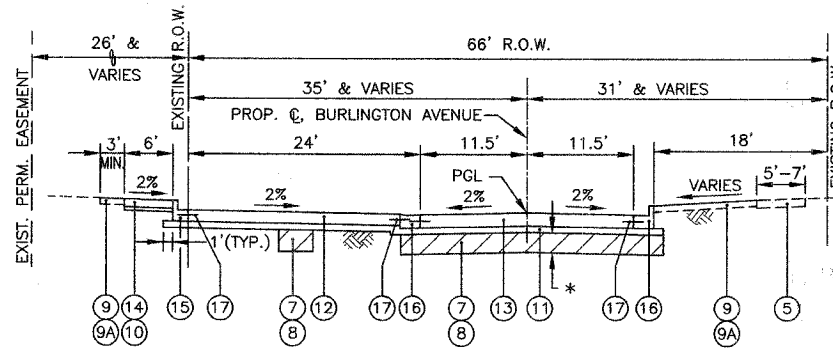
SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

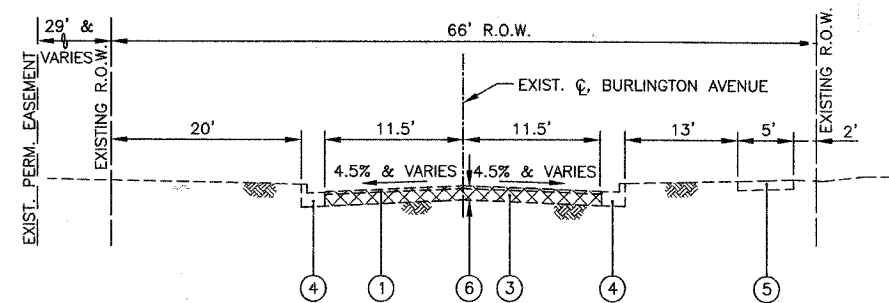
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 83988				



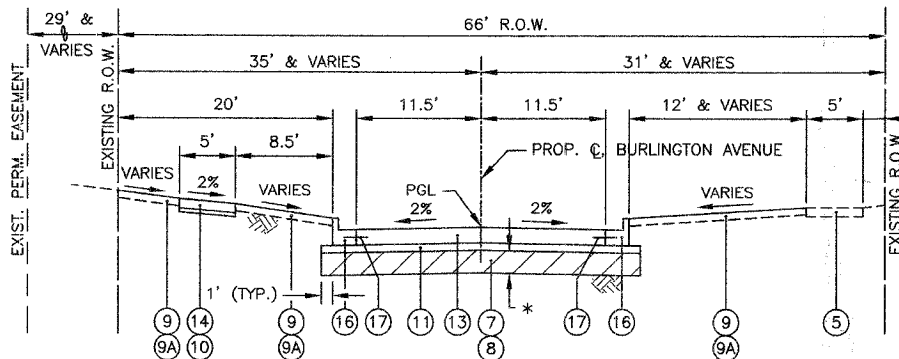
EXISTING TYPICAL SECTION - BURLINGTON AVE.
STA. 200+19.09 TO STA. 213+80



PROPOSED TYPICAL SECTION - BURLINGTON AVE.
STA. 200+19.09 TO STA. 213+80

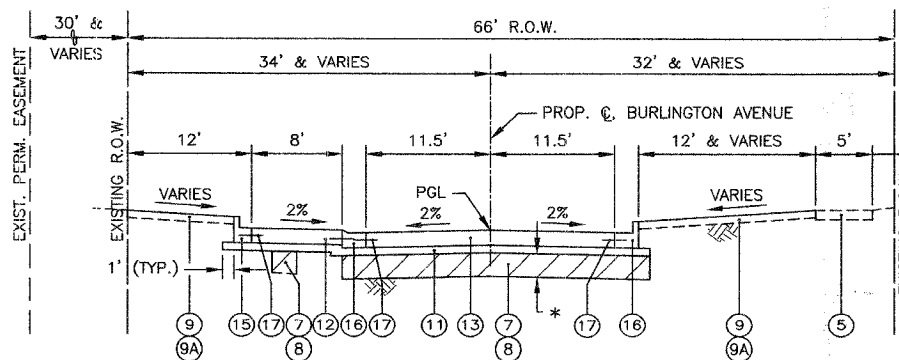


EXISTING TYPICAL SECTION - BURLINGTON AVE.
STA. 213+80 TO STA. 227+03.12



PROPOSED TYPICAL SECTION - BURLINGTON AVE.
STA. 213+80 TO STA. 218+00

PAVEMENT DESIGN CALCULATIONS	
DATE:	AUGUST 5, 2004
IMPROVEMENT TYPE:	RIGID PAVEMENT CROSS SECTION
LOCATION:	BURLINGTON AVENUE - WOLF ROAD TO GILBERT AVENUE
CLASSIFICATION OF ROADWAY:	CLASS II ROADWAY
TRAFFIC FACTOR = $DP((0.073^{PV}) + (53.29^{SU}) + (237.070^{MU})) / 1000000$	2438 (NOT PROJECTED AT ONE HALF OF THE DESIGN PERIOD)
STRUCTURAL DESIGN TRAFFIC	75 %
DESIGN LANE VOLUME % OF ADT	20 YEARS
DESIGN PERIOD, YEARS (DP)	98 %
% OF PASSENGER VEHICLES (PV)	0.80 %
% OF SINGLE UNIT TRUCKS (SU)	0.80 %
% OF MULTI UNIT TRUCKS (MU)	0.80 %
PROJ. AVERAGE DAILY TRAFFIC	3250
DESIGN LANE VOLUME	2438
NO. OF PASSENGER VEHICLES	2413
NO. OF SINGLE UNIT TRUCKS	12
NO. OF MULTI UNIT TRUCKS	12
TRAFFIC FACTOR	0.074288
I.B.R.	2.5



PROPOSED TYPICAL SECTION - BURLINGTON AVE.
STA. 218+00 TO STA. 227+03.12

LEGEND

- ① EXISTING BITUMINOUS SURFACE COURSE, 3"
- ② EXISTING BITUMINOUS PAVEMENT, 12", VARIABLE DEPTH
- ③ EXISTING P.C.C. PAVEMENT, 7"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B-6.12
- ⑤ EXISTING P.C.C. SIDEWALK
- ⑥ PAVEMENT REMOVAL
- ⑦ POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑧ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑨ SODDING
- ⑨A TOPSOIL FURNISH AND PLACE 4"
- ⑩ SUB-BASE GRANULAR MATERIAL, TYPE B 2" (INCIDENTAL TO P.C.C. SIDEWALK 5")
- ⑪ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑫ P.C.C. PAVEMENT 7"
- ⑬ P.C.C. PAVEMENT 8"
- ⑭ PORTLAND CEMENT CONCRETE SIDEWALK 5" (AT LOCATIONS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER)
- ⑮ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (THICKNESS OF CURB FLAG SHALL BE EQUAL TO THE THICKNESS OF THE PROPOSED PAVEMENT.)
- ⑯ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (THICKNESS OF CURB FLAG SHALL BE EQUAL TO THE THICKNESS OF THE PROPOSED PAVEMENT.)
- ⑰ 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS, 24" CTRS, 24" LONG (COST INCLUDED IN CONCRETE CURB AND GUTTER)

*ESTIMATED UNDERCUTS VARY 0" TO 18" DEEP

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	ITEM	AC TYPE	VOIDS
PATCHING	BITUMINOUS MIXTURE FOR PATCHING POTHOLES (HOT MIX)	PG 64-22	4% @ 50 GYR
PATCHING	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm)	PG 64-22	4% @ 50 GYR

* THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/ IN.

* HOT-MIX ASPHALT SURFACE COURSE USED ONLY FOR CLASS B PATCHES (SEE SHEET 22 FOR LOCATION AND SHEET 28 FOR DETAIL)

SOILS NOTE:

POROUS GRANULAR EMBANKMENT SUBGRADE (PGE) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGE. IF UNSTABLE SOIL IS NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

THE LIMITS OF UNSTABLE SOILS ARE AT THE APPROXIMATE LOCATIONS AS FOLLOWS:

STA. TO STA. 200+19.09 TO 213+80 ESTIMATED UNDERCUT 3,150 CU YD WITH GEOTECHNICAL FABRIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

TYPICAL SECTIONS

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

FILLING CATCH BASINS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
BURLINGTON AVE.		
203+19	18' RT	1
203+46	18' RT	1
203+50	16' LT	1
211+97	17' RT	1
216+89	13' LT	1
217+68	13' LT	1
223+90	12' RT	1
223+90	13' LT	1
JOHNSON AVE.		
7+01	12' LT	1
7+01	12' RT	1
TOTAL QUANTITY =		10

MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
203+38	2' LT	1
209+51	10' LT	1
TOTAL QUANTITY =		2

REMOVING CATCH BASINS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
221+84	17' RT	1
TOTAL QUANTITY =		1

CATCH BASINS TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
200+08	42' RT	1
TOTAL QUANTITY =		1

FILLING INLETS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
203+11	22' RT	1
203+64	16' LT	1
205+12	16' LT	1
211+11	11' RT	1
211+13	18' LT	1
217+68	11' RT	1
TOTAL QUANTITY =		6

MANHOLES TO BE RECONSTRUCTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
222+06	29' LT	1
223+92	28' LT	1
TOTAL QUANTITY =		2

REMOVING INLETS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
201+36	17' RT	1
222+13	22' RT	1
TOTAL QUANTITY =		2

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
200+34	31' LT	1
TOTAL QUANTITY =		1

FILLING MANHOLES		
STATION	OFFSET (FEET)	QUANTITY (EACH)
BURLINGTON AVE.		
211+11	15' RT	1
JOHNSON AVE.		
7+43	12' LT	1
TOTAL QUANTITY =		2

MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
206+85	12' LT	1
211+12	C.L.	1
211+97	10' LT	1
213+67	7' LT	1
213+78	37' LT	1
216+74	C.L.	1
216+97	C.L.	1
TOTAL QUANTITY =		7

REMOVING MANHOLES		
STATION	OFFSET (FEET)	QUANTITY (EACH)
201+34	C.L.	1
201+36	11.5' RT	1
205+06	2' LT	1
206+77	2' LT	1
209+26	C.L.	1
211+87	C.L.	1
214+39	C.L.	1
219+52	C.L.	1
222+08	C.L.	1
224+78	C.L.	1
226+99	C.L.	1
TOTAL QUANTITY =		11

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
224+71	17' RT	1
TOTAL QUANTITY =		1

FILLING VALVE VAULTS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
200+33	2' RT	1
200+53	13' RT	1
202+91	12' RT	1
203+70	10' RT	1
TOTAL QUANTITY =		4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

SCHEDULE OF QUANTITIES

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
221+97	11' RT	1
226+83	9' RT	1
TOTAL QUANTITY =		2

VALVE VAULTS TO BE RECONSTRUCTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
222+43	25' LT	1
222+92	25' LT	1
TOTAL QUANTITY =		2

VALVE VAULTS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
203+21	29' RT	1
206+59	32' RT	1
211+68	32' RT	1
216+62	9' RT	1
216+78	33' RT	1
221+91	33' RT	1
TOTAL QUANTITY =		6

WATER MAIN FITTINGS			
TYPE OF FITTING	QUANTITY (EACH)	WEIGHT PER EACH (POUNDS)	TOTAL WEIGHT (POUNDS)
8" - 11 1/4" BEND	1	45	45
8" - 45" BEND	4	55	220
8" x 6" TEE	1	83	83
8" RETAINER GLAD	10	18	180
TOTAL WEIGHT =			528

TREE REMOVAL (6 TO 15 UNIT DIA)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
221+26	41' LT	6
212+24	29' LT	12
212+24	29' LT	9
212+40	27' LT	9
212+40	27' LT	6
212+40	27' LT	6
212+60	40' LT	12
213+39	33' LT	12
213+90	38' LT	6
TOTAL QUANTITY =		78

STREET LIGHT UNIT TO BE RELOCATED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
204+22	17' RT	1
205+86	17' RT	1
207+26	17' RT	1
208+20	17' RT	1
209+53	17' RT	1
210+81	17' RT	1
212+11	17' RT	1
213+12	17' RT	1
TOTAL QUANTITY =		8

DRIVEWAY QUANTITY SCHEDULE				
STATION	OFFSET	EXISTING PAVEMENT	DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	P.C.C. DRIVEWAY PVMT 7 INCHES (SQ. YD.)
BURLINGTON AVENUE				
201+68	RT	P.C.C.	44.7	48.7
202+38	RT	P.C.C.	58.3	49.2
204+47	RT	BIT.	32.2	30.9
205+39	RT	BIT.	58.9	58.0
207+93	RT	AGG.	-	27.9
208+70	RT	AGG./BIT.	17.3	39.2
209+38	RT	P.C.C.	20.1	21.3
210+50	RT	P.C.C.	22.8	25.2
213+39	RT	BIT.	28.8	27.2
214+23	RT	BIT.	30.9	24.9
214+41	RT	P.C.C.	16.0	24.9
215+00	RT	P.C.C.	28.0	29.9
215+32	RT	P.C.C.	18.9	26.1
216+10	RT	P.C.C.	21.4	25.2
218+42	RT	BIT.	30.2	30.8
219+00	RT	P.C.C.	14.1	21.6
219+58	RT	BIT.	29.3	28.6
220+82	RT	BIT.	23.7	26.6
223+45	RT	BIT.	37.2	33.0
223+97	RT	BIT.	31.9	32.3
224+47	RT	P.C.C.	36.4	35.7
225+24	RT	P.C.C.	47.7	40.0
225+81	RT	P.C.C.	15.8	12.6
JOHNSON AVENUE				
7+09	RT	BIT.	13.3	15.4
9+30	LT	P.C.C.	46.2	23.8
TOTAL QUANTITY =			724.1	758.8

EARTHWORK		
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.* (CU YD)	FURNISHED EXCAVATION** (CU YD)
BURLINGTON AVENUE	2,851	276
TOTAL QUANTITY =	2,851	276

*ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ONSITE STORAGE LOCATIONS.
 **ALL FILL MATERIAL (EMBANKMENT) SHALL BE BROUGHT IN FROM OFFSITE LOCATION, SINCE THE ONSITE EXCAVATED MATERIAL MUST BE HAULED OFF SITE.

REVISIONS	
NAME	DATE

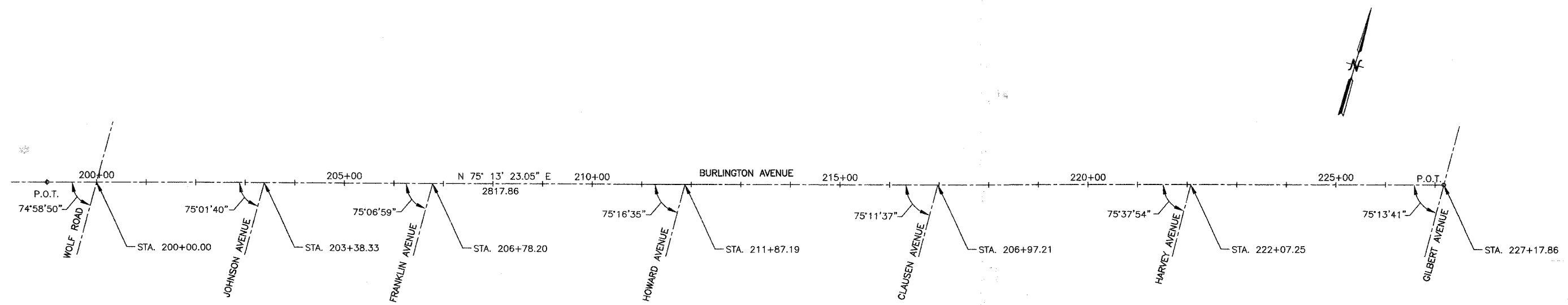
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 3783
 BURLINGTON AVENUE

SCHEDULE OF QUANTITIES

SCALE: NTS
 DATE: 8/15/07

DRAWN BY SMP
 CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 83988				



CONTROL POINTS						
CONTROL POINT NO.	LOCATION		NORTHING	EASTING	ELEVATION	DESCRIPTION
	STATION	OFFSET				
44	202+09.38	26.95 R	9118.8697	17551.7251	669.54	CUT CROSS
50	207+03.47	28.73 R	9243.1768	18029.9296	668.65	CUT CROSS
43	208+86.90	26.67 R	9291.9486	18206.7653	668.11	CUT CROSS
46	209+34.26	20.98 L	9350.0986	18240.4083	666.57	PK NAIL
47	212+14.44	28.03 R	9374.1770	18523.8210	665.15	CUT CROSS
42	212+97.21	16.59 L	9438.4304	18592.4712	664.61	PK NAIL
41	216+58.93	32.24 R	9483.4687	18954.6784	655.13	CUT CROSS
80	218+88.20	27.39 R	9546.6391	19175.1323	656.28	CUT CROSS
81	221+68.74	31.78 R	9613.9540	19447.5130	659.02	CUT CROSS
82	224+23.76	27.73 R	9682.9068	19693.0624	657.92	CUT CROSS
83	225+69.87	28.33 R	9719.5951	19834.4949	658.75	CUT CROSS
84	226+79.27	29.58 R	9746.2886	19940.6010	658.97	CUT CROSS

CURVE NO.	Δ	D _a	T	R	L	E	POT/PI STATION	POT/PI COORDINATES		PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
								NORTHING	EASTING		NORTHING	EASTING		NORTHING	EASTING
BURLINGTON AVENUE							199+00.00 227+17.86	9066.0215 9784.7342	17245.7029 19970.3630						

- BURLINGTON AVENUE BENCH MARKS**
- BM#1: TOP BOLT (NOT OPERATING NUT) ON FIRE HYDRANT, FIRE HYDRANT AT THE NORTHEAST CORNER OF WOLF ROAD AND BURLINGTON AVENUE. ELEVATION=673.60
 - *BM#2: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT AT THE SOUTHWEST CORNER OF JOHNSON AVENUE AND BURLINGTON AVENUE. ELEVATION=670.22
 - *BM#3: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT AT THE SOUTHWEST CORNER OF FRANKLIN AVENUE AND BURLINGTON AVENUE. ELEVATION=667.72
 - BM#4: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT AT THE SOUTHWEST CORNER OF HOWARD AVENUE AND BURLINGTON AVENUE. ELEVATION=667.08
 - *BM#5: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT AT THE SOUTHWEST CORNER OF CLAUSEN AVENUE AND BURLINGTON AVENUE. ELEVATION=660.41
 - *BM#6: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT AT THE SOUTHWEST CORNER OF HARVEY AVENUE AND BURLINGTON AVENUE. ELEVATION=656.14
 - BM#6: NORTHWEST FLANGE BOLT ON FIRE HYDRANT, FIRE HYDRANT ON THE EAST SIDE OF GILBERT AVENUE AT THE INTERSECTION WITH BURLINGTON AVENUE. ELEVATION=662.15
- *NOTES: BENCH MARK IS LOCATED ON A FIRE HYDRANT THAT WILL BE MOVED. BENCH MARK WILL NEED TO BE RELOCATED PRIOR TO CONSTRUCTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

ALIGNMENT AND BENCH MARKS

SCALE: 1"=100'
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BDH

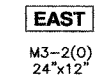
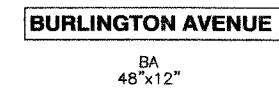
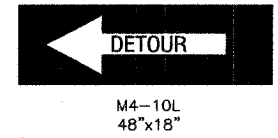
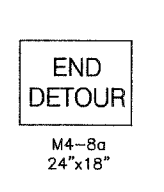
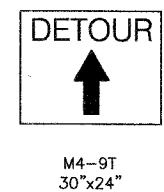
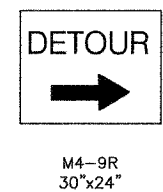
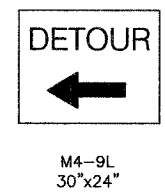
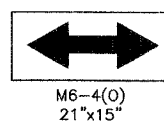
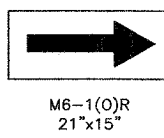
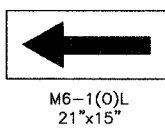
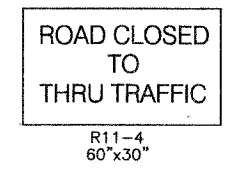
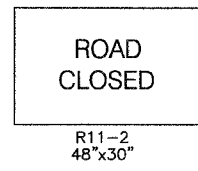
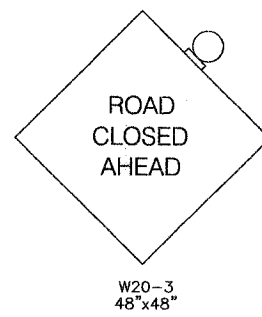
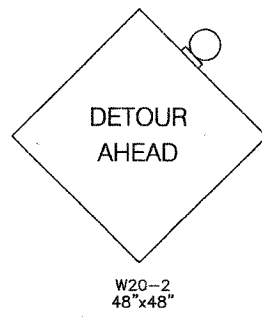
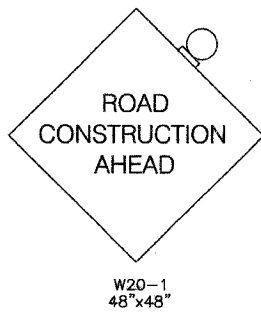
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 83988				

TRAFFIC CONTROL GENERAL NOTES

- BURLINGTON AVENUE SHALL REMAIN OPEN TO EMERGENCY VEHICLES AND RESIDENT ACCESS AT ALL TIMES. ONE 11' WIDE LANE OF PAVED OR GRAVEL SURFACE MUST BE PROVIDED IN THE WORK ZONE.
- DETOUR SIGNS SHALL BE COVERED IF WORK IS SUSPENDED. AT THE END OF ANY WORK SUSPENSION, THE SIGNS SHALL BE UNCOVERED 48 HOURS PRIOR TO RESUMING WORK.
- ALL BARRICADES SHALL BE EQUIPPED WITH STEADY BURN AMBER LIGHTS. THE USE OF BARRICADES WITH FLASHING LIGHTS WILL NOT BE ALLOWED.
- ADVANCE ROAD CLOSURE NOTICE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. ALL ADVANCE WARNING SIGNS SHALL BE INSTALLED TWO DAYS PRIOR TO THE START OF CONSTRUCTION. ALL TRAFFIC CONTROL ITEMS SHALL CONFORM TO THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS AND IDOT STANDARD 701701, AS WELL AS THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED. WARNING SIGNS SHALL BE 48" x 48" IN SIZE AND SHALL BE IN LIKE NEW CONDITION. DAMAGED AND/OR DIRTY WARNING SIGNS WILL NOT BE ALLOWED.
- WORK WHICH MAY INTERFERE WITH TRAFFIC FLOW AT INTERSECTIONS SHALL BE PERFORMED BETWEEN 9:00 A.M. AND 3:00 P.M. ONLY. FLAGGERS SHALL BE USED FOR ALL SUCH OPERATIONS.



ADVANCE NOTICE PANELS SHALL BE POSTED ON W20-3 SIGNS 14 DAYS PRIOR TO ROAD CLOSURE.



LEGEND
= TYPE III BARRICADE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

TRAFFIC CONTROL PLAN

SCALE: NTS
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BOH

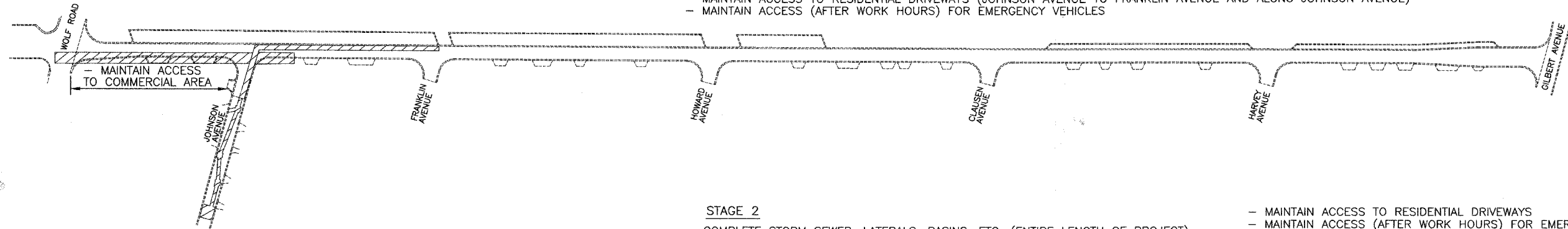
SUGGESTED STAGING PLAN

NOTE: TRUCK ACCESS WILL BE WOLF ROAD AND GILBERT AVENUE ONLY (ALL STAGES)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0080-00-FP	COOK	49	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83958				

STAGE 1

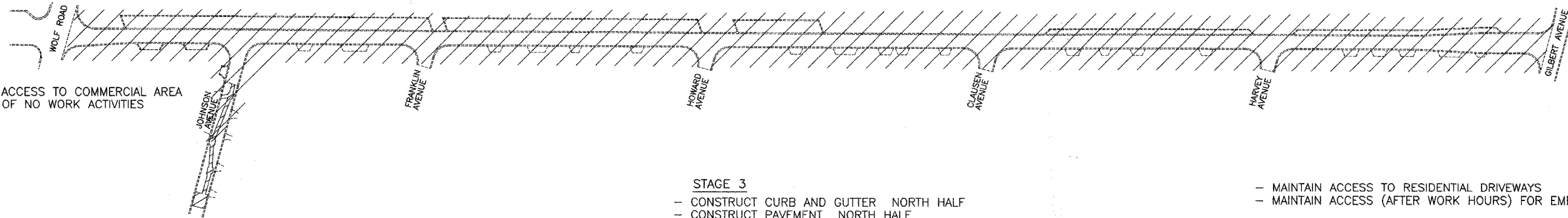
- STORM SEWER CONSTRUCTION; JOHNSON AVENUE TO FRANKLIN AVENUE AND ALONG JOHNSON AVENUE
- WATER MAIN CONSTRUCTION; WOLF ROAD TO JOHNSON AVENUE
- MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS (JOHNSON AVENUE TO FRANKLIN AVENUE AND ALONG JOHNSON AVENUE)
- MAINTAIN ACCESS (AFTER WORK HOURS) FOR EMERGENCY VEHICLES



STAGE 2

- COMPLETE STORM SEWER, LATERALS, BASINS, ETC. (ENTIRE LENGTH OF PROJECT)
- COMPLETE WATER MAIN TESTING, CONNECTIONS AND SERVICES
- PAVEMENT REMOVAL, EARTH EXCAVATION AND AGGREGATE PLACEMENT
- INSTALL ELECTRICAL CONDUITS, ETC.
- CONSTRUCT PAVEMENT PATCH ALONG JOHNSON AVENUE

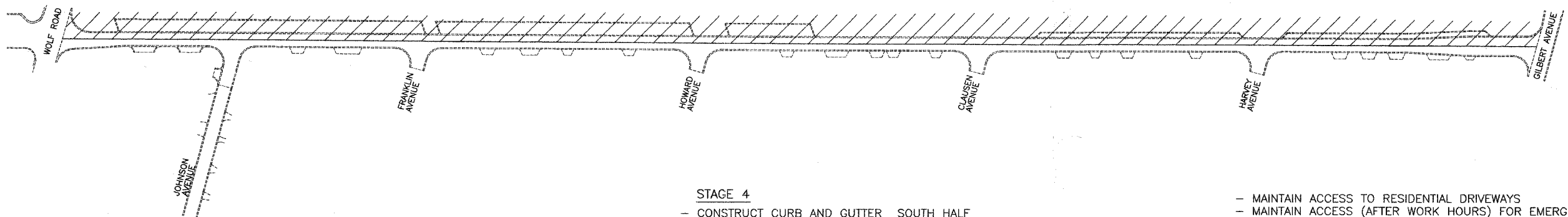
- MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS
- MAINTAIN ACCESS (AFTER WORK HOURS) FOR EMERGENCY VEHICLES



STAGE 3

- CONSTRUCT CURB AND GUTTER NORTH HALF
- CONSTRUCT PAVEMENT NORTH HALF

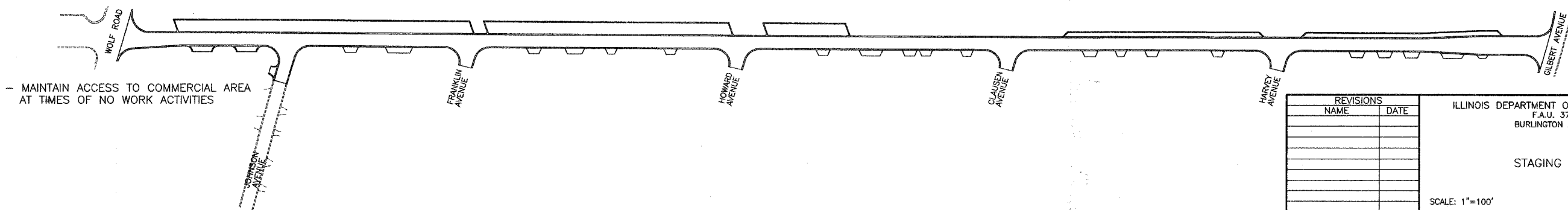
- MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS
- MAINTAIN ACCESS (AFTER WORK HOURS) FOR EMERGENCY VEHICLES



STAGE 4

- CONSTRUCT CURB AND GUTTER SOUTH HALF
- CONSTRUCT PAVEMENT SOUTH HALF
- LANDSCAPE RESTORATION
- PAVEMENT MARKINGS

- MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS
- MAINTAIN ACCESS (AFTER WORK HOURS) FOR EMERGENCY VEHICLES



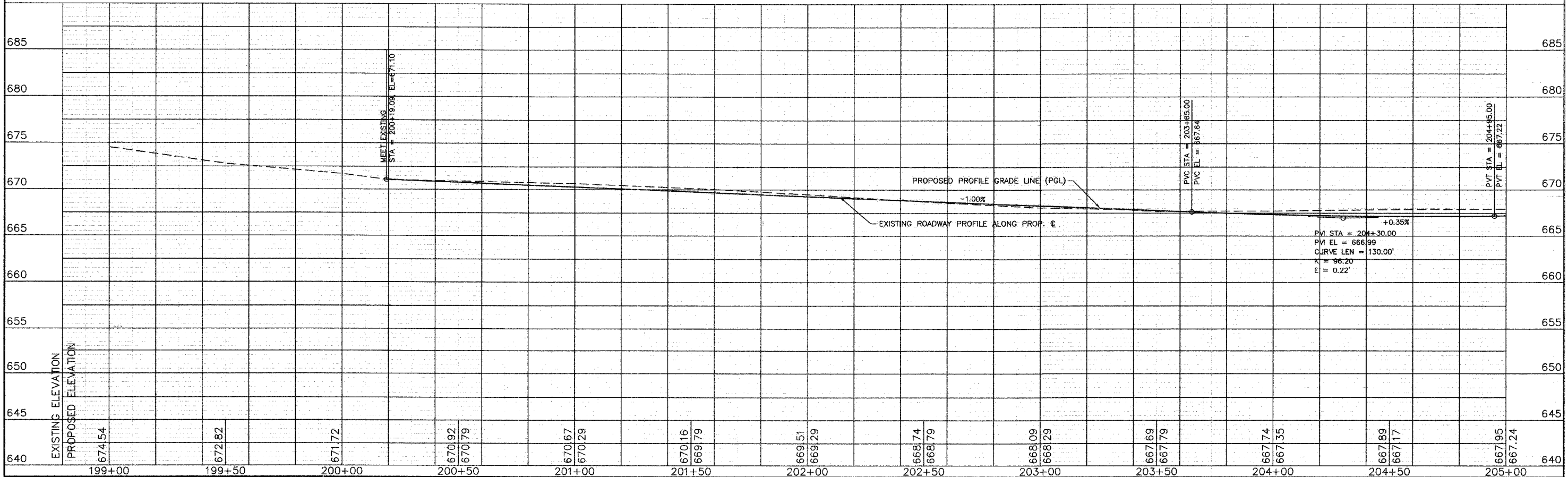
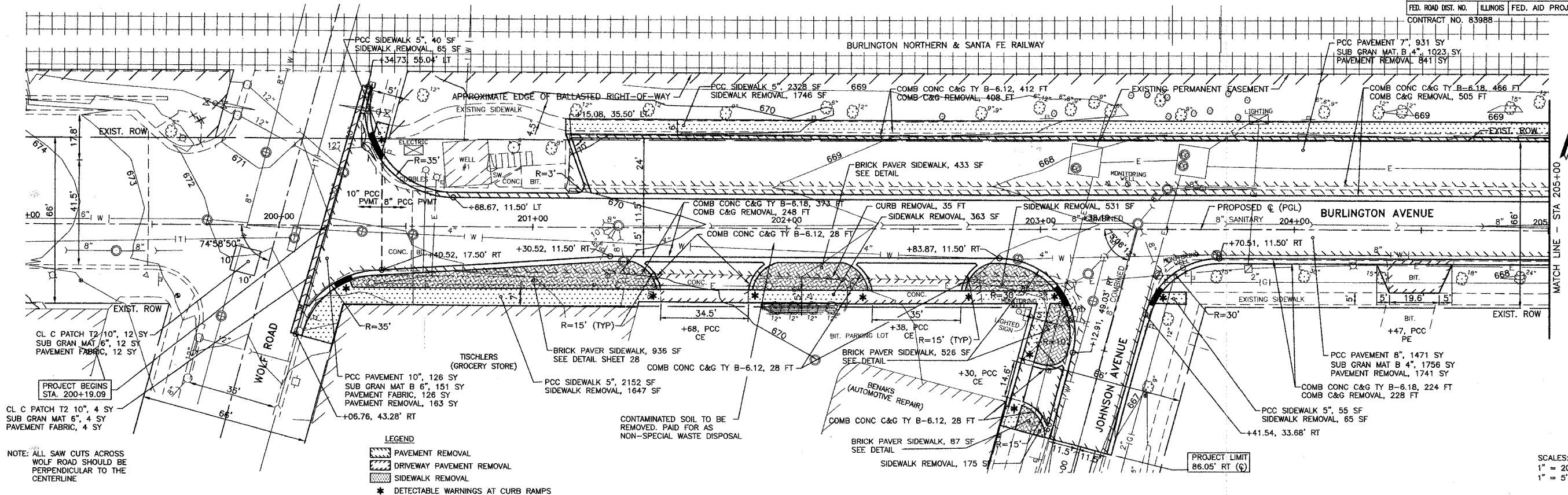
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 3783
 BURLINGTON AVENUE

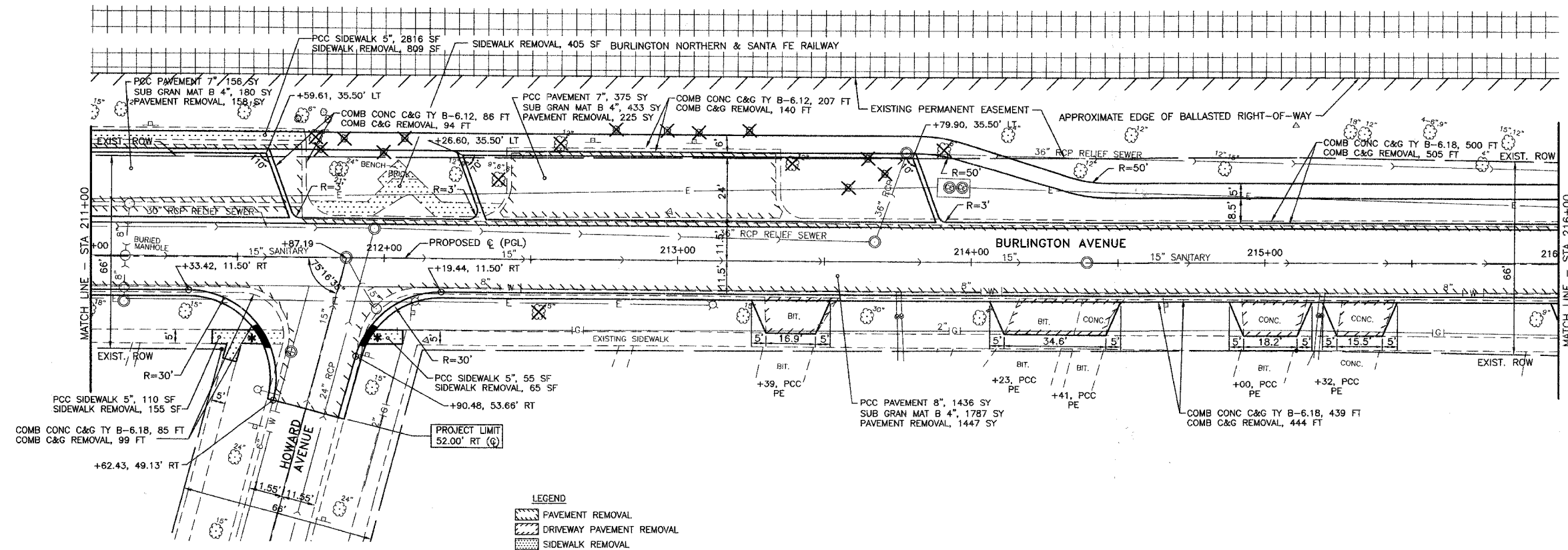
 STAGING PLAN

 SCALE: 1"=100'
 DATE: 8/15/07
 DRAWN BY SMP
 CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0080-00FP	COOK	49	12
STA. 199+00		TO STA. 205+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 83988				

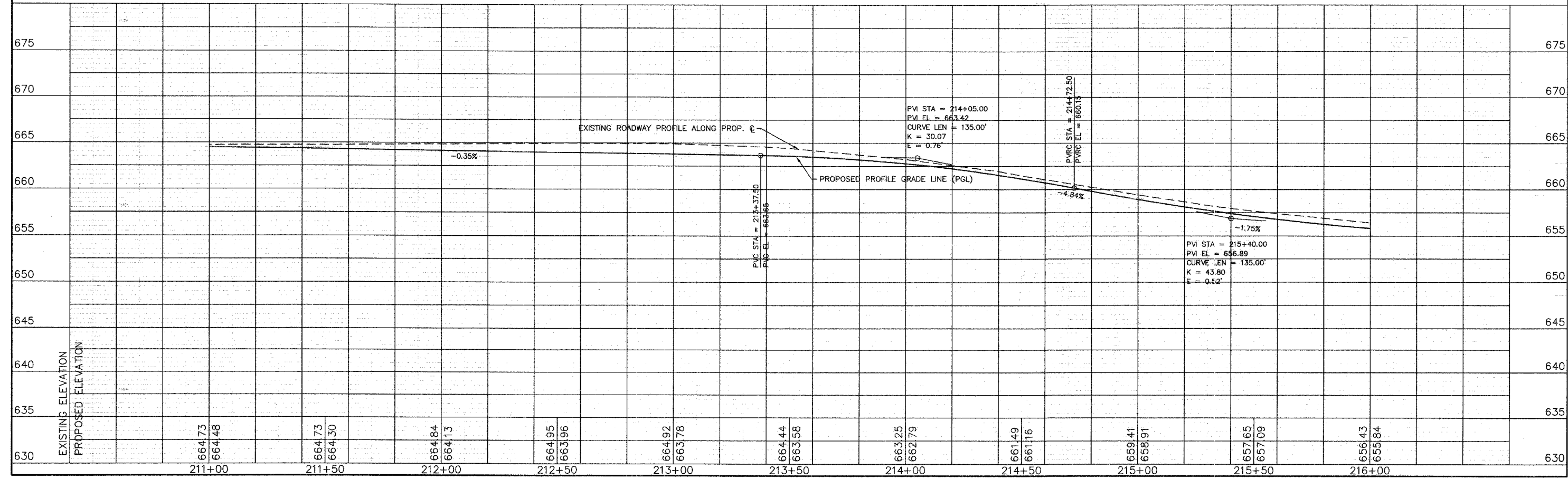


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0080-00FP	COOK	49	14
STA. 211+00		TO STA. 216+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83788				

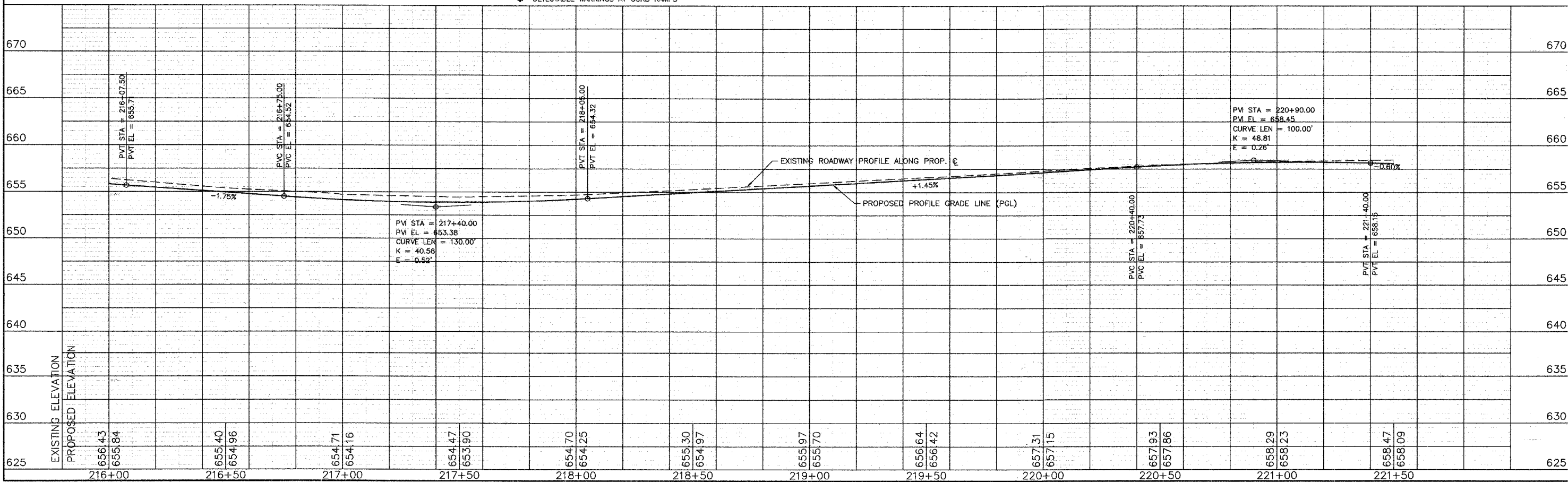
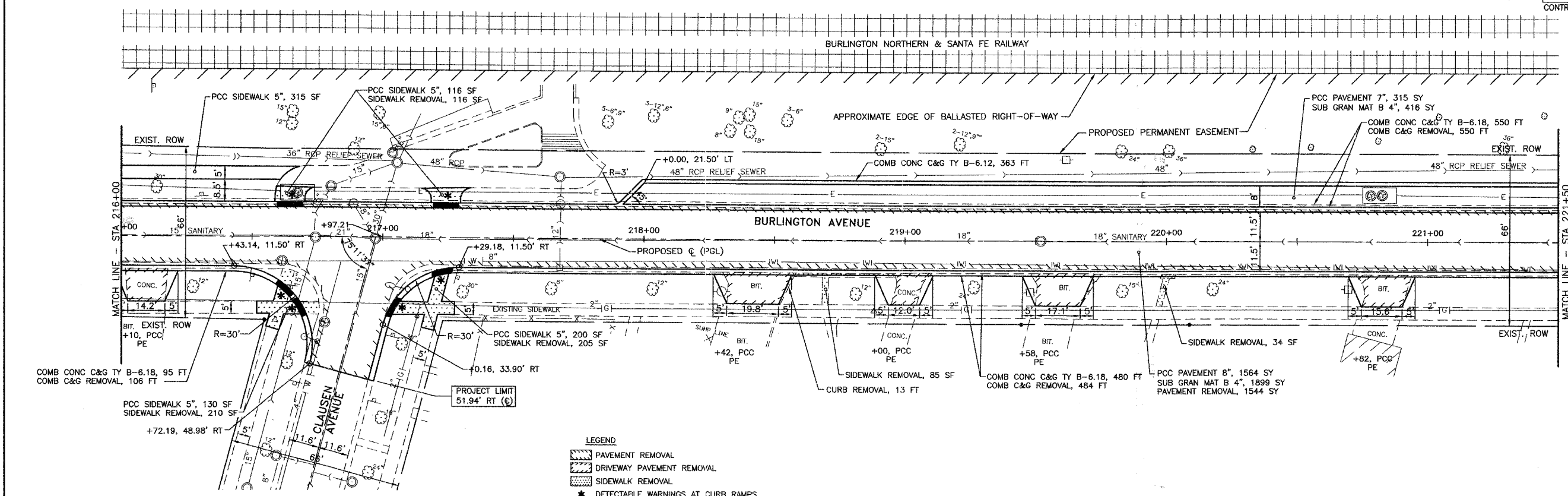


- LEGEND**
- PAVEMENT REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - SIDEWALK REMOVAL
 - * DETECTABLE WARNINGS AT CURB RAMPS

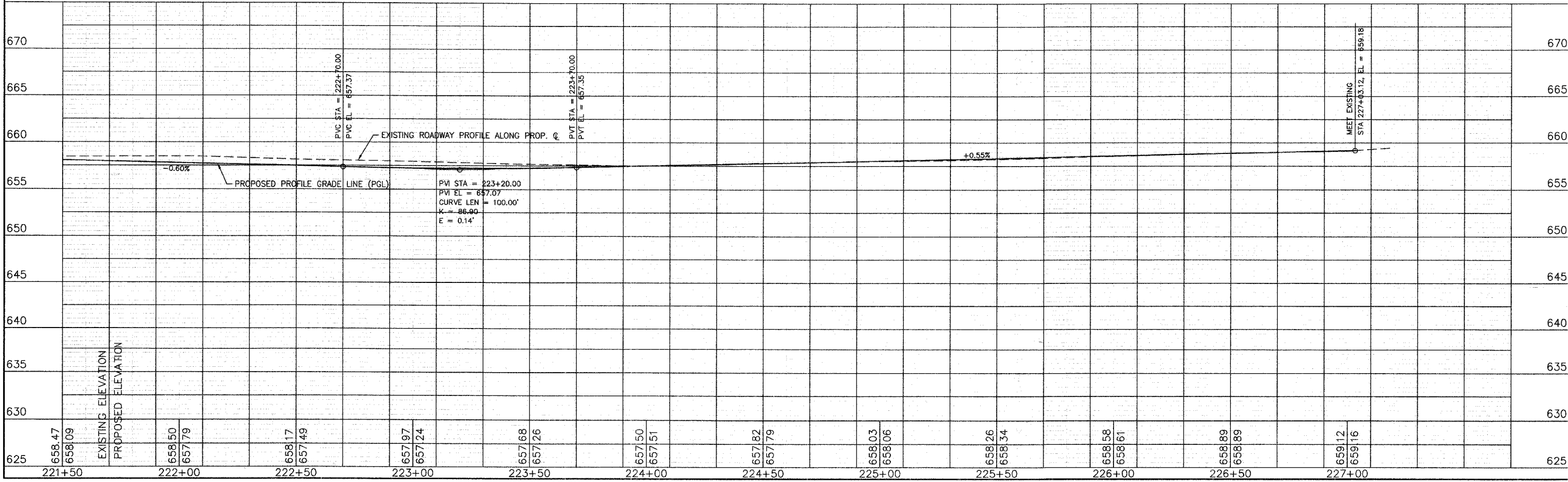
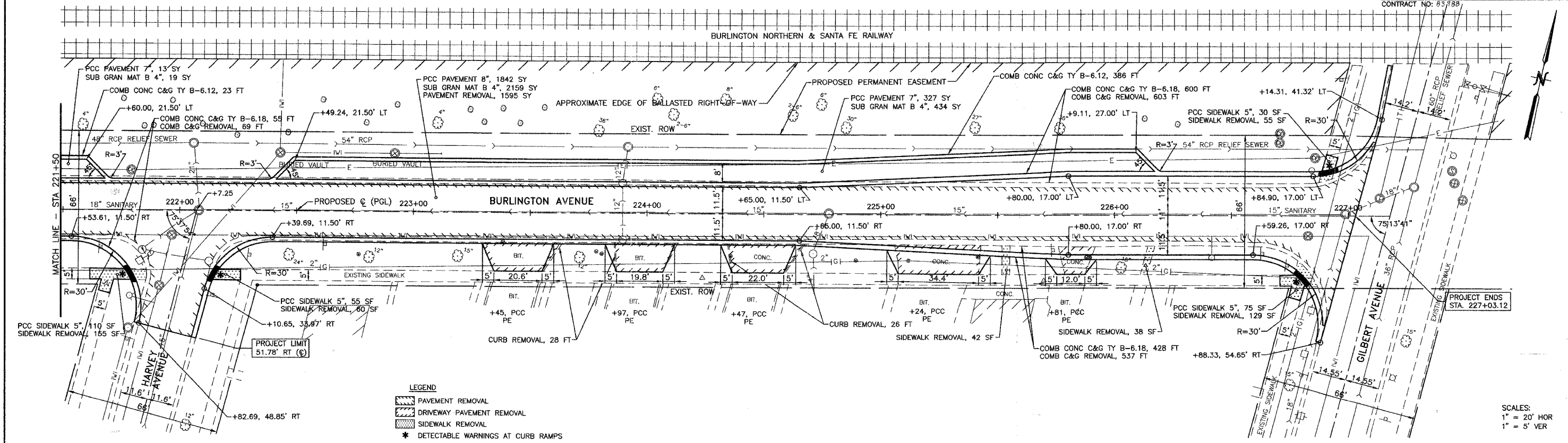
SCALES:
 1" = 20' HOR
 1" = 5' VER

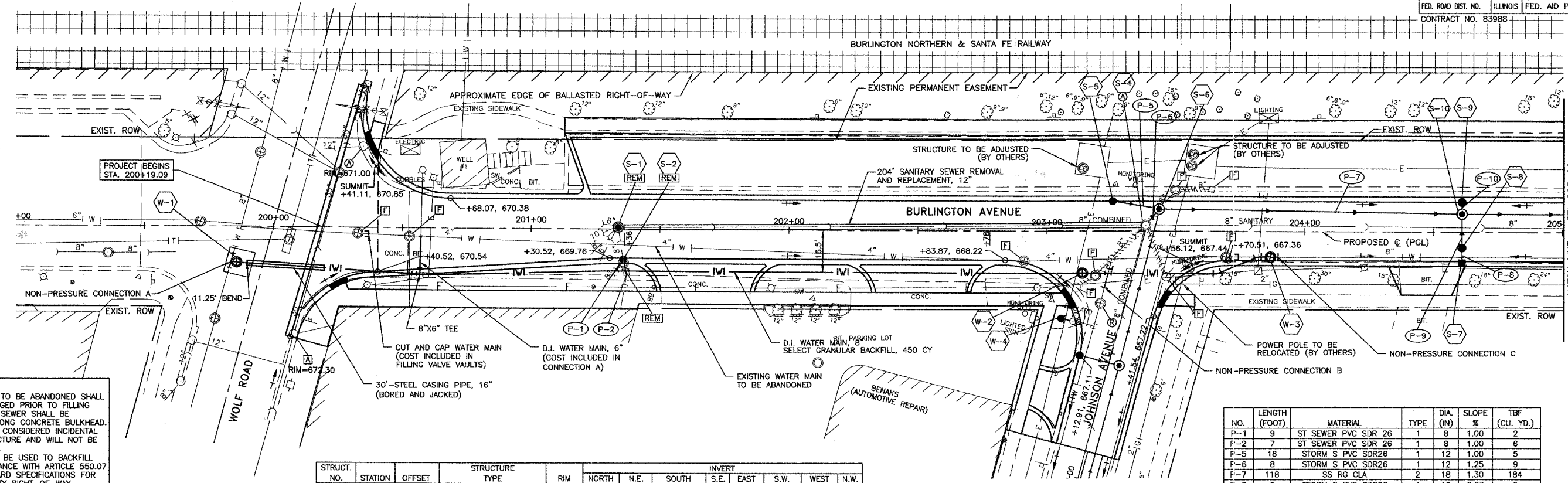


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	15
STA. 216+00		TO STA. 221+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 83988				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	16
STA. 221+50		TO STA. 227+17.99		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83 988				





NOTES:

- SEWERS THAT ARE TO BE ABANDONED SHALL HAVE EACH END PLUGGED PRIOR TO FILLING THE STRUCTURE. THE SEWER SHALL BE PLUGGED WITH A 2' LONG CONCRETE BULKHEAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO FILLING THE STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.
- FA-6 SAND SHALL BE USED TO BACKFILL TRENCHES IN ACCORDANCE WITH ARTICLE 550.07 OF THE STATE STANDARD SPECIFICATIONS FOR WORK IN COOK COUNTY RIGHT-OF-WAY. (WOLF ROAD)

LEGEND

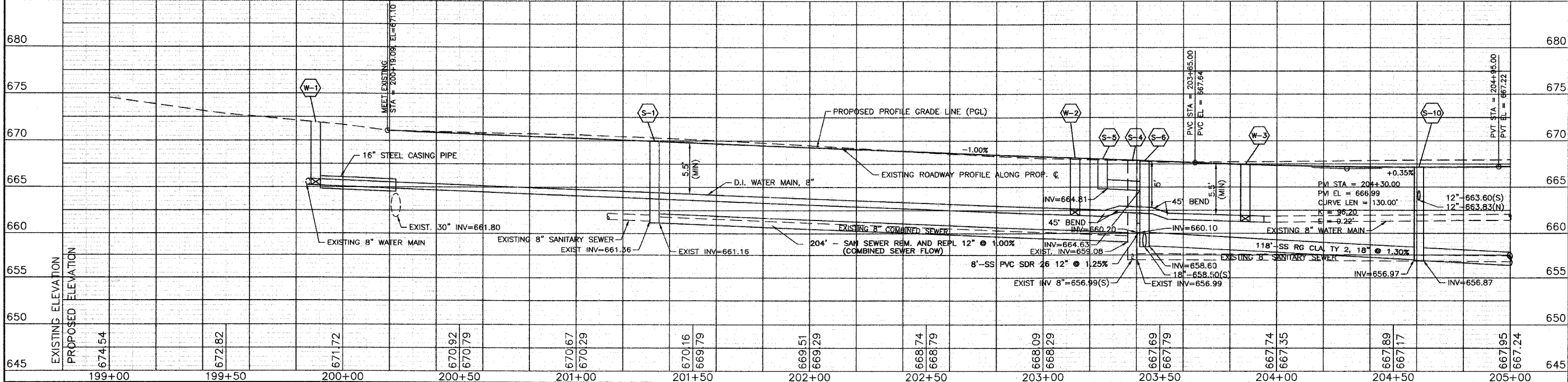
EXISTING	PROPOSED
(A) STRUCTURE TO BE ADJUSTED	(AS) STRUCTURE TO BE ADJUSTED SPECIAL
(C) STRUCTURE TO BE CLEANED	(CS) STRUCTURE TO BE CLEANED SPECIAL
(F) FILLING EXISTING STRUCTURE	(FS) FILLING EXISTING STRUCTURE SPECIAL
(R) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(RS) RECONSTRUCTED SPECIAL
(M) STRUCTURE TO BE MOVED	(MS) MOVING EXISTING STRUCTURE SPECIAL
(RE) STRUCTURE TO BE REMOVED	(RE) STRUCTURE TO BE REMOVED WITH NEW FRAME & LID
(A) FRAME & LID TO BE ADJUSTED SPECIAL	(AS) FILLING EXISTING STRUCTURE AND MAINTAIN FLOW
(---) SEWER TO BE ABANDONED	(X) VALVE VAULT
	(O) MANHOLE
	(C) CATCH BASIN
	(I) INLET
	(F) FIRE HYDRANT

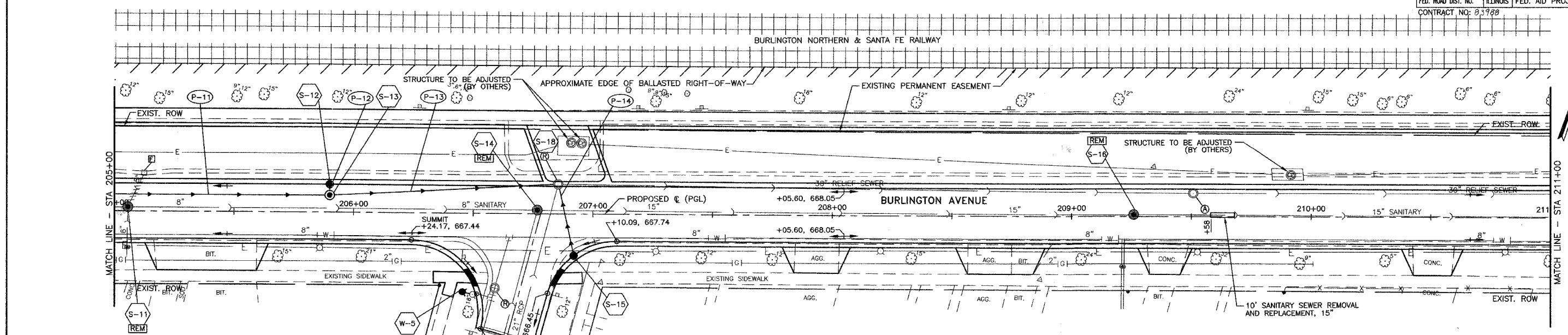
STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT								
					NORTH	N.E.	SOUTH	S.E.	EAST	S.W.	WEST	N.W.	
S-1	201+34	C.L.	MAN SAN 4 DIA T1F CL REMOV MANHOLES	669.95	-	-	663.71	-	661.16	662.66	661.36	-	-
S-2	201+36	11.5' RT	CB TA 4 DIA T23F&G REMOV MANHOLES	669.70	663.79	-	663.87	-	-	667.29	-	-	-
S-4	203+38	2' LT	MAN ADJ NEW T1F CL	667.87	-	660.20	656.99	-	656.99	-	659.08	-	-
S-5	203+25	11.5' LT	CB TA 4 DIA T23F&G	667.81	-	-	-	-	664.81	-	-	-	-
S-6	203+43	9' LT	MAN TA 5 DIA T1F CL	667.68	-	-	658.60	-	-	660.10	664.63	-	-
S-7	204+61	11.5' RT	INLETS TA T3F&G	666.93	663.93	-	-	-	-	-	-	-	-
S-8	204+61	6' RT	CB TA 4 DIA T1F CL	667.04	663.73	-	663.83	-	-	-	-	-	-
S-9	204+61	11.5' LT	CB TA 4 DIA T3F&G	666.93	-	-	663.93	-	-	-	-	-	-
S-10	204+61	7' LT	MAN TA 5 DIA T1F CL	667.02	663.83	-	663.60	-	656.87	-	656.97	-	-

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-1	9	ST SEWER PVC SDR 26	1	8	1.00	2
P-2	7	ST SEWER PVC SDR 26	1	8	1.00	6
P-5	18	STORM S PVC SDR26	1	12	1.00	5
P-6	8	STORM S PVC SDR26	1	12	1.25	9
P-7	118	SS RG CLA	2	18	1.30	184
P-8	5	STORM S PVC SDR26	1	12	2.00	2
P-9	13	STORM S PVC SDR26	1	12	1.00	4
P-10	4	STORM S PVC SDR26	1	12	2.50	1

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	NOTES
W-1	199+89	11' RT	GATE VALVE 8", 4 FT DIA. VALVE VAULT, TIF CL	672.00	SEE CONNECTION DETAIL "A"
W-2	203+14	17' RT	GATE VALVE 8", 4 FT DIA. VALVE VAULT, TIF CL	667.80	SEE CONNECTION DETAIL "B"
W-3	203+87	10' RT	GATE VALVE 8", 4 FT DIA. VALVE VAULT, TIF CL	667.25	SEE CONNECTION DETAIL "C"
W-4	203+06	35' RT	FIRE HYDRANTS TO BE MVD	-	-

SCALES:
1" = 20' HOR
1" = 5' VER





NOTES:
 1) SEWERS THAT ARE TO BE ABANDONED SHALL HAVE EACH END PLUGGED PRIOR TO FILLING THE STRUCTURE. THE SEWER SHALL BE PLUGGED WITH A 2' LONG CONCRETE BULKHEAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO FILLING THE STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.

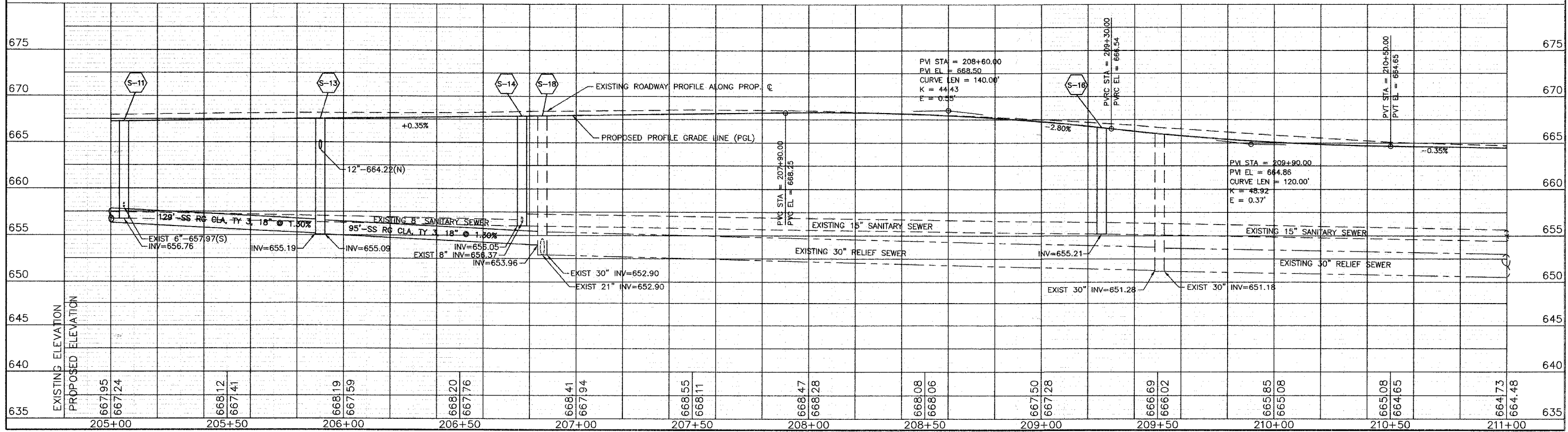
LEGEND		EXISTING	PROPOSED
(A)	STRUCTURE TO BE ADJUSTED	(X)	VALVE VAULT
(B)	STRUCTURE TO BE CLEANED	(O)	MANHOLE
(C)	FILLING EXISTING STRUCTURE	(□)	CATCH BASIN
(D)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID	(○)	INLET
(E)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(●)	FIRE HYDRANT
(F)	STRUCTURE TO BE REMOVED	(○)	INLET
(G)	FRAME & LID TO BE ADJUSTED SPECIAL	(○)	INLET
(H)	SEWER TO BE ABANDONED	(○)	INLET
(I)	STRUCTURE TO BE ADJUSTED SPECIAL	(○)	INLET
(J)	STRUCTURE TO BE RECONSTRUCTED SPECIAL	(○)	INLET
(K)	STRUCTURE TO BE ABANDONED	(○)	INLET
(L)	FILLING EXISTING STRUCTURE SPECIAL	(○)	INLET
(M)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(○)	INLET
(N)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID	(○)	INLET
(O)	STRUCTURE TO BE REMOVED	(○)	INLET
(P)	FRAME & LID TO BE ADJUSTED SPECIAL	(○)	INLET
(Q)	SEWER TO BE ABANDONED	(○)	INLET

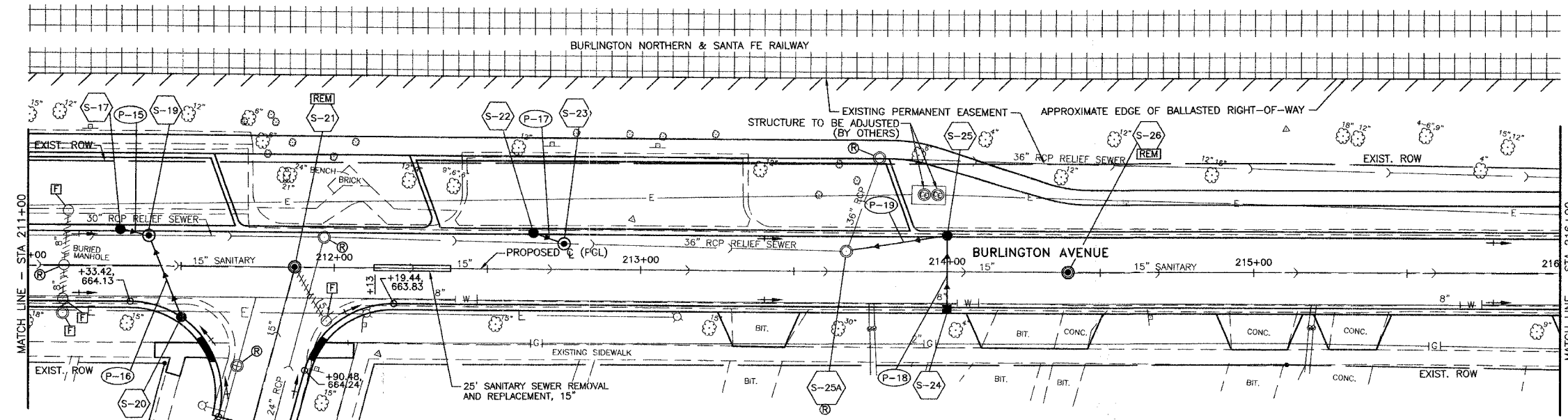
STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT								
					NORTH	N.E.	SOUTH	S.E.	EAST	S.W.	WEST	N.W.	
S-11	205+06	2' LT	MAN SAN 4 DIA T1F CL REMOV MANHOLES	667.22	-	-	657.97	-	656.74	-	656.74	-	-
S-12	205+90	11.5' LT	CB TA 4 DIA T23F&G	667.32	-	-	-	664.32	-	-	-	-	-
S-13	205+90	7' LT	MAN TA 5 DIA T1F CL	667.41	-	-	-	-	655.09	-	655.19	664.22	-
S-14	206+77	2' LT	MAN SAN 4 DIA T1F CL REMOV MANHOLES	667.82	-	-	656.37	-	656.05	-	656.05	-	-
S-15	206+92	17.5' RT	CB TA 4 DIA T23F&G	667.08	664.08	-	-	-	-	-	-	-	-
S-16	209+26	C.L.	MAN SAN 4 DIA T1F CL REMOV MANHOLES	666.63	-	-	-	-	655.21	-	655.21	-	-
S-18	206+85	12' LT	MAN RECON NEW T1F CL	667.66	-	-	652.90	663.78	652.90	-	653.96	-	-

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-11	129	SS RG CLA	3	18	1.30	239
P-12	4	STORM S PVC SDR26	1	12	2.50	1
P-13	95	SS RG CLA	3	18	1.30	207
P-14	30	STORM S PVC SDR26	1	12	1.00	9

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	NOTES
W-5	206+50	33' RT	FIRE HYDRANTS TO BE MVD	-	-

SCALES:
 1" = 20' HOR
 1" = 5' VER





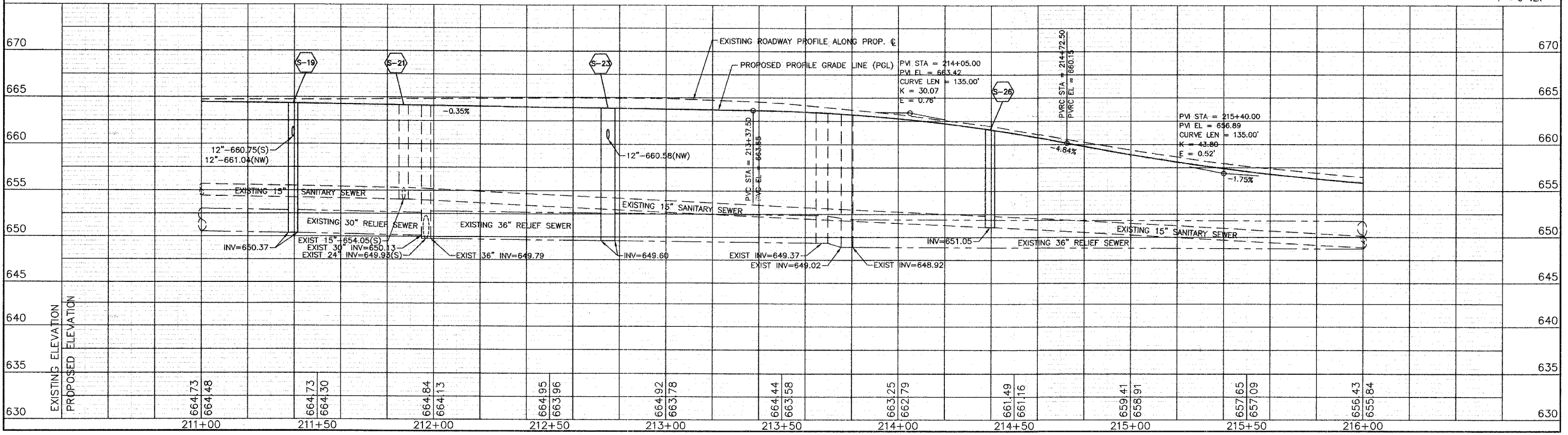
NOTES:
 1) SEWERS THAT ARE TO BE ABANDONED SHALL HAVE EACH END PLUGGED PRIOR TO FILLING THE STRUCTURE. THE SEWER SHALL BE PLUGGED WITH A 2' LONG CONCRETE BULKHEAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO FILLING THE STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.

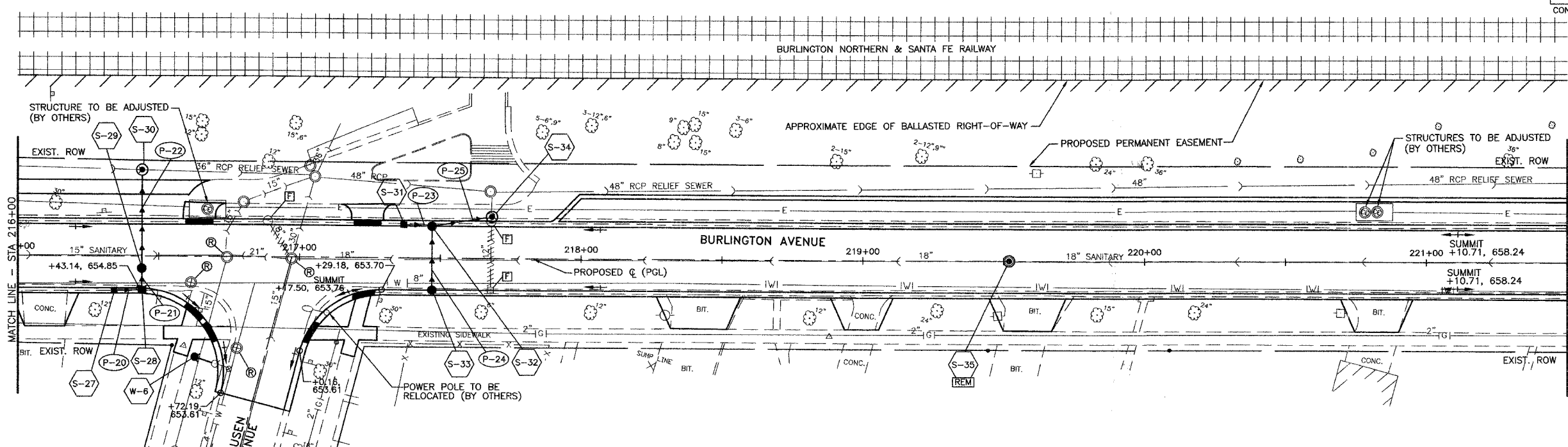
LEGEND		EXISTING	PROPOSED
[Symbol]	STRUCTURE TO BE ADJUSTED	[Symbol]	VALVE VAULT
[Symbol]	STRUCTURE TO BE CLEANED	[Symbol]	MANHOLE
[Symbol]	FILLING EXISTING STRUCTURE	[Symbol]	CATCH BASIN
[Symbol]	STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID	[Symbol]	INLET
[Symbol]	STRUCTURE TO BE RECONSTRUCTED	[Symbol]	FIRE HYDRANT
[Symbol]	STRUCTURE TO BE MOVED	[Symbol]	
[Symbol]	STRUCTURE TO BE REMOVED	[Symbol]	
[Symbol]	FRAME & LID TO BE ADJUSTED SPECIAL	[Symbol]	
[Symbol]	SEWER TO BE ABANDONED	[Symbol]	
[Symbol]	STRUCTURE TO BE ADJUSTED SPECIAL	[Symbol]	
[Symbol]	STRUCTURE TO BE RECONSTRUCTED SPECIAL	[Symbol]	
[Symbol]	STRUCTURE TO BE ABANDONED	[Symbol]	
[Symbol]	FILLING EXISTING STRUCTURE SPECIAL	[Symbol]	
[Symbol]	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	[Symbol]	
[Symbol]	FILLING EXISTING STRUCTURE AND MAINTAIN FLOW	[Symbol]	

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT								
					NORTH	N.E.	SOUTH	S.E.	EAST	S.W.	WEST	N.W.	
S-17	211+30	11.5' LT	CB TA 4 DIA T23F&G	664.14	-	-	-	661.14	-	-	-	-	-
S-19	211+40	10' LT	MAN TA 5 DIA T1F CL	664.14	-	-	660.75	-	-	650.37	-	661.04	-
S-20	211+50.2	16.6' RT	CB TA 4 DIA T3F&G	664.05	661.05	-	-	-	-	-	-	-	-
S-21	211+87	C.L.	MAN SAN 4 DIA T1F CL REMCV MANHOLES	664.18	-	-	654.05	-	-	654.05	-	-	-
S-22	212+65	11.5' LT	CB TA 4 DIA T23F&G	663.68	-	-	-	660.68	-	-	-	-	-
S-23	212+75	8' LT	MAN TA 6 DIA T1F CL	663.71	-	-	-	-	649.60	-	649.60	660.58	-
S-24	214+00	11.5' RT	INLETS TA T23F&G	662.56	659.56	-	-	-	-	-	-	-	-
S-25	214+00	11.5' LT	CB TA 4 DIA T23F&G	662.56	-	-	659.33	-	-	-	659.08	-	-
S-25A	213+67	7' LT	MAN RECON NEW T1F CL	663.27	649.37	-	-	-	658.75	-	649.37	-	-
S-26	214+39	C.L.	MAN SAN 4 DIA T1F CL REMCV MANHOLES	661.59	-	-	-	-	651.05	-	651.05	-	-

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-15	10	STORM S PVC SDR26	1	12	1.00	3
P-16	29	STORM S PVC SDR26	1	12	1.00	8
P-17	10	STORM S PVC SDR26	1	12	1.00	3
P-18	23	STORM S PVC SDR26	1	12	1.00	6
P-19	33	SS (PVC) SDR 26	1	15	1.00	12

SCALES:
 1" = 20' HOR
 1" = 5' VER





NOTES:
 1) SEWERS THAT ARE TO BE ABANDONED SHALL HAVE EACH END PLUGGED PRIOR TO FILLING THE STRUCTURE. THE SEWER SHALL BE PLUGGED WITH A 2' LONG CONCRETE BULKHEAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO FILLING THE STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.

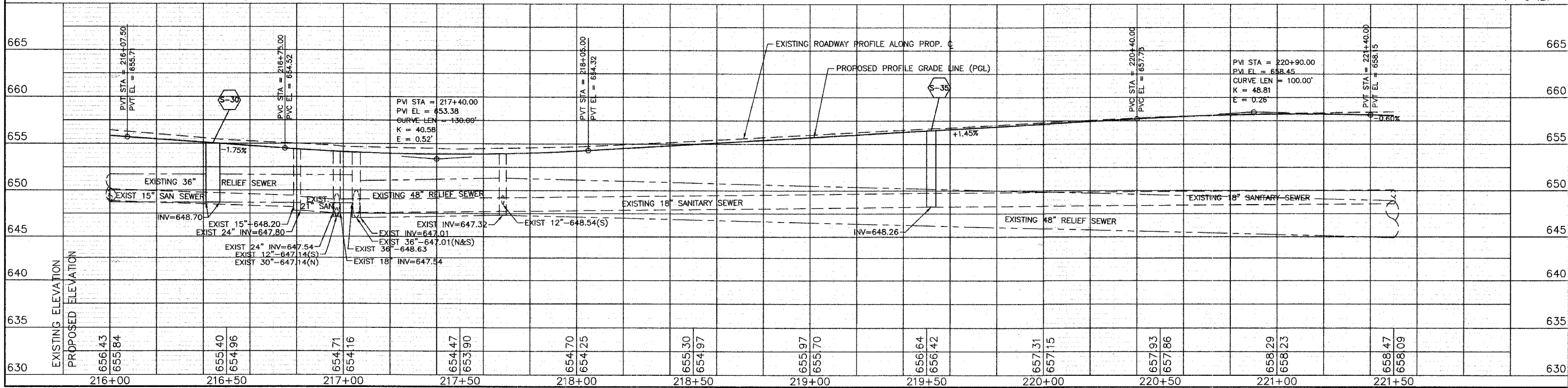
LEGEND		EXISTING	PROPOSED
(A)	STRUCTURE TO BE ADJUSTED	(X)	VALVE VAULT
(B)	STRUCTURE TO BE CLEANED	(O)	MANHOLE
(C)	FILLING EXISTING STRUCTURE	(□)	CATCH BASIN
(D)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID	(○)	INLET
(E)	STRUCTURE TO BE RECONSTRUCTED	(●)	FIRE HYDRANT
(F)	STRUCTURE TO BE REMOVED	(○)	
(G)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(○)	
(H)	STRUCTURE TO BE ADJUSTED SPECIAL	(○)	
(I)	FILLING EXISTING STRUCTURE AND MAINTAIN FLOW	(○)	
(J)	SEWER TO BE ABANDONED	(---)	

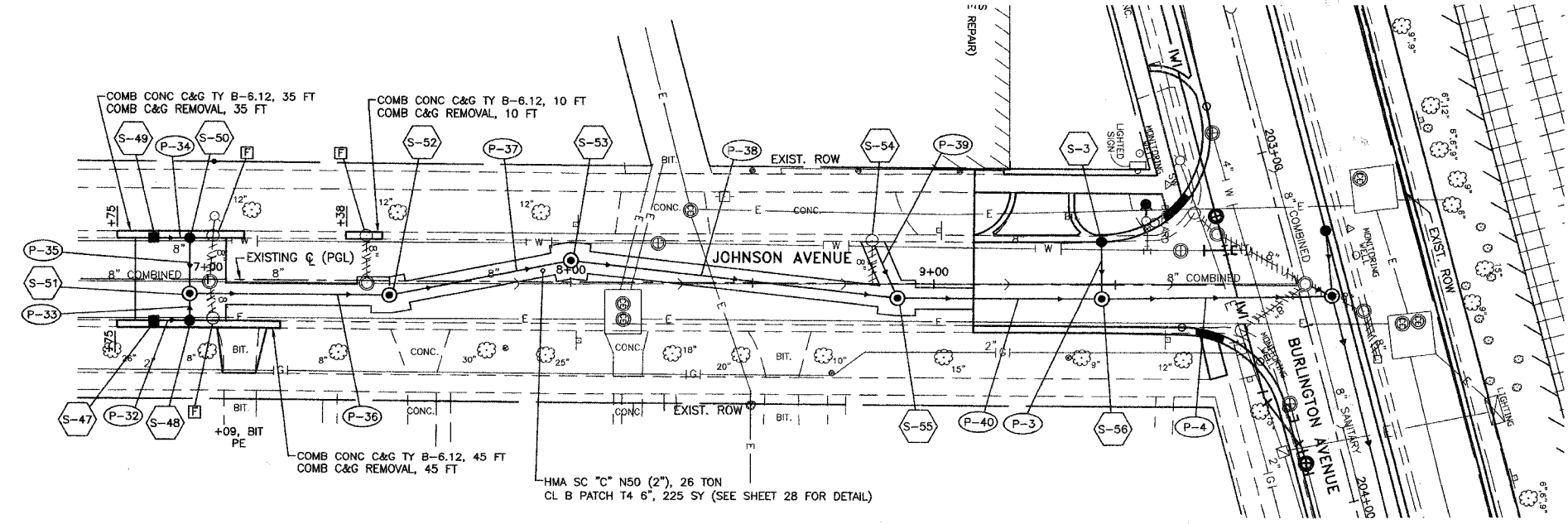
STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT								
					NORTH	N.E.	SOUTH	S.E.	EAST	S.W.	WEST	N.W.	
S-27	216+33	11.5' RT	INLETS TA T23F&G	655.03	-	-	-	-	651.95	-	-	-	-
S-28	216+43	11.5' RT	INLETS TA T23F&G	654.85	651.85	-	-	-	-	-	-	651.85	-
S-29	216+43	5' RT	CB TA 4 DIA T1F CL	654.98	651.65	-	-	651.75	-	-	-	-	-
S-30	216+43	31' RT	MAN TA 6 DIA T1F CL	657.60	-	-	-	651.29	-	648.70	-	648.70	-
S-31	217+36	11.5' LT	INLETS TA T3F&G	653.68	-	-	-	-	-	650.68	-	-	-
S-32	217+46	11.5' LT	CB TA 4 DIA T3F&G	653.67	-	-	-	650.44	-	650.19	-	650.58	-
S-33	217+46	11.5' RT	CB TA 4 DIA T3F&G	653.67	650.67	-	-	-	-	-	-	-	-
S-34	217+68	15' LT	MAN TA 4 DIA T1F CL	654.70	649.15	-	-	649.15	-	-	-	649.97	-
S-35	219+52	C.L.	MAN SAN 4 DIA T1F CL REMOV MANHOLES	656.45	-	-	-	-	-	648.26	-	648.26	-

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-20	10	STORM S PVC SDR26	1	12	1.00	3
P-21	6	STORM S PVC SDR26	1	12	1.67	2
P-22	36	STORM S PVC SDR26	1	12	1.00	16
P-23	10	STORM S PVC SDR26	1	12	1.00	3
P-24	23	STORM S PVC SDR26	1	12	1.00	6
P-25	22	SS (PVC) SDR 26	1	15	1.00	8

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	NOTES
W-6	216+63	36' RT	FIRE HYDRANTS TO BE MVD	-	-

SCALES:
 1" = 20' HOR
 1" = 5' VER





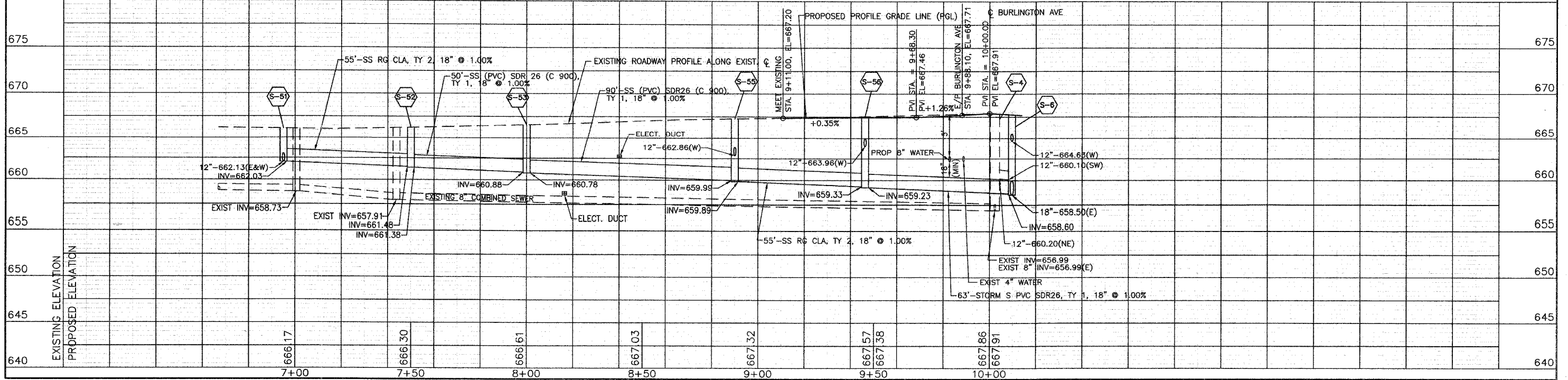
NOTES:
 1) SEWERS THAT ARE TO BE ABANDONED SHALL HAVE EACH END PLUGGED PRIOR TO FILLING THE STRUCTURE. THE SEWER SHALL BE PLUGGED WITH A 2' LONG CONCRETE BULKHEAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO FILLING THE STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.

LEGEND		EXISTING	PROPOSED
(A) STRUCTURE TO BE ADJUSTED	(ASB) STRUCTURE TO BE ADJUSTED SPECIAL	(X) VALVE VAULT	(X) VALVE VAULT
(C) STRUCTURE TO BE CLEANED	(RSP) STRUCTURE TO BE RECONSTRUCTED SPECIAL	(O) MANHOLE	(O) MANHOLE
(F) FILLING EXISTING STRUCTURE	(AB) STRUCTURE TO BE ABANDONED	(C) CATCH BASIN	(C) CATCH BASIN
(A) STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID	(FSS) FILLING EXISTING STRUCTURE SPECIAL	(I) INLET	(I) INLET
(M) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(R) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID	(FH) FIRE HYDRANT	(FH) FIRE HYDRANT
(REM) STRUCTURE TO BE REMOVED	(FM) FILLING EXISTING STRUCTURE AND MAINTAIN FLOW		
(A) FRAME & LID TO BE ADJUSTED SPECIAL			
(//) SEWER TO BE ABANDONED			

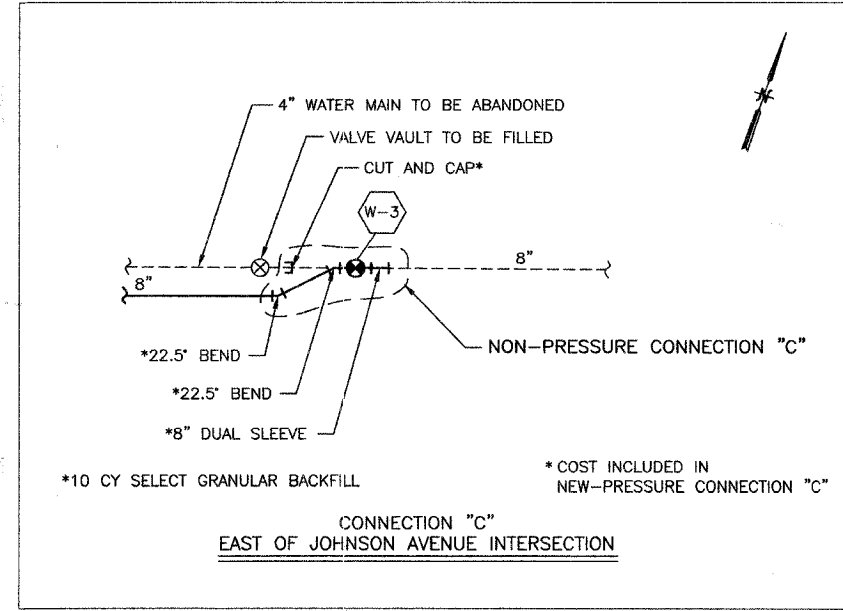
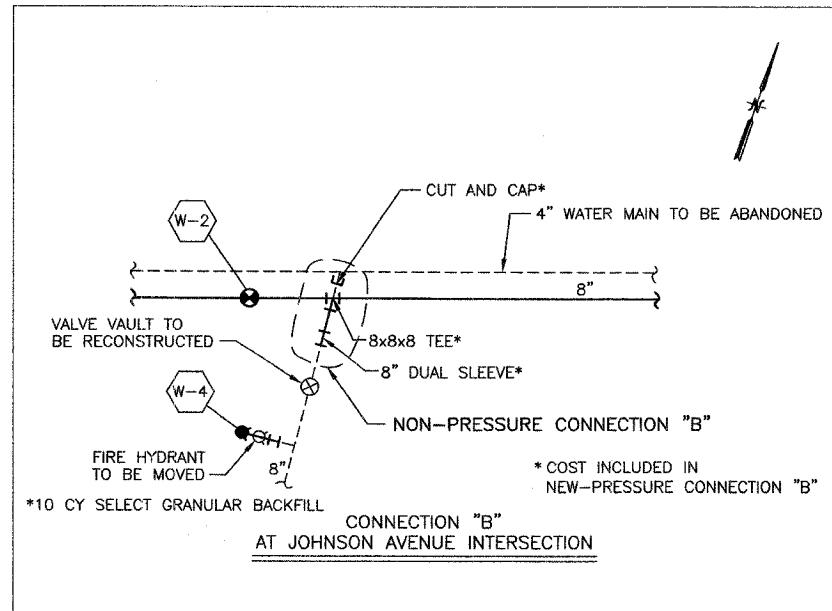
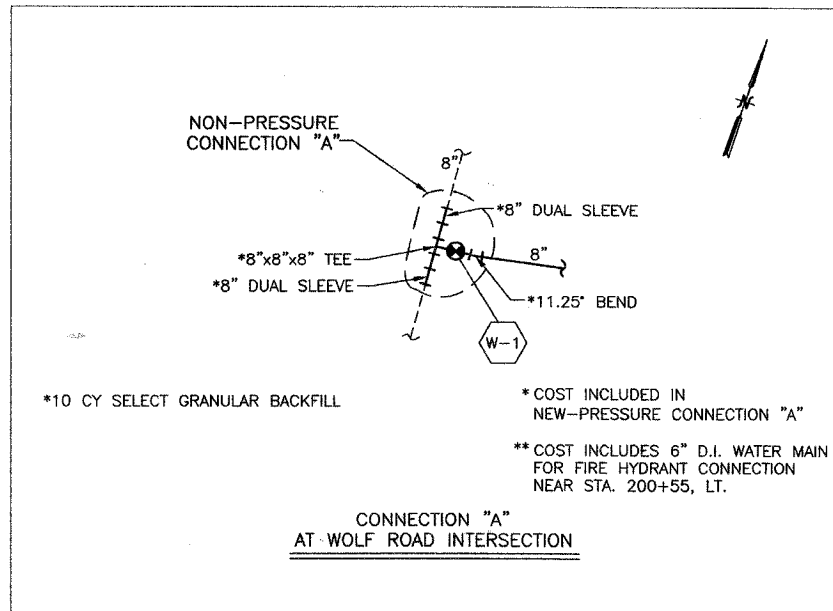
STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	COORDINATES							
					NORTH	N.E.	SOUTH	S.E.	EAST	S.W.	WEST	N.W.
S-3	9+47	11.8' LT	CB TA 4 DIA T23F&G	667.11	-	-	-	-	664.11	-	-	-
S-47	6+85	12' RT	INLETS TA T3F&G	665.60	662.43	-	-	-	-	-	-	-
S-48	6+95	12' RT	CB TA 4 DIA T3F&G	665.50	-	-	662.33	-	-	-	662.23	-
S-49	6+85	12' LT	INLETS TA T3F&G	665.60	662.48	-	-	-	-	-	-	-
S-50	6+95	12' LT	CB TA 4 DIA T3F&G	665.40	-	-	662.38	-	662.28	-	-	-
S-51	6+95	4' RT	MAN TA 5 DIA T1F CL	665.92	662.03	-	-	-	662.13	-	662.13	-
S-52	7+50	4' RT	MAN TA 4 DIA T1F CL	666.16	661.38	-	661.48	-	-	-	-	-
S-53	8+00	6' LT	MAN TA 4 DIA T1F CL	666.41	660.78	-	660.88	-	-	-	-	-
S-54	8+83	12' LT	EXIST CB	666.56	-	-	-	-	663.01	-	-	-
S-55	8+90	4' RT	MAN TA 4 DIA T1F CL	667.15	659.88	-	659.98	-	-	-	662.86	-
S-56	9+47	4' RT	MAN TA 4 DIA T1F CL	667.28	659.23	-	659.33	-	-	-	663.96	-

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-3	15	STORM S PVC SDR26	1	12	1.00	4
P-4	63	SS RG CLA	2	18	1.00	87
P-32	10	STORM S PVC SDR26	1	12	1.00	3
P-33	8	STORM S PVC SDR26	1	12	1.25	3
P-34	10	STORM S PVC SDR26	1	12	1.00	3
P-35	15	STORM S PVC SDR26	1	12	1.00	5
P-36	55	SS RG CLA	2	18	1.00	22
P-37	50	SS (PVC) SDR 26 (C900)	1	18	1.00	38
P-38	90	SS (PVC) SDR 26 (C900)	1	18	1.00	88
P-39	15	STORM S PVC SDR26	1	12	1.00	5
P-40	55	SS RG CLA	2	18	1.00	66

SCALES:
 1" = 20' HOR
 1" = 5' VER



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				



REVISIONS	
NAME	DATE

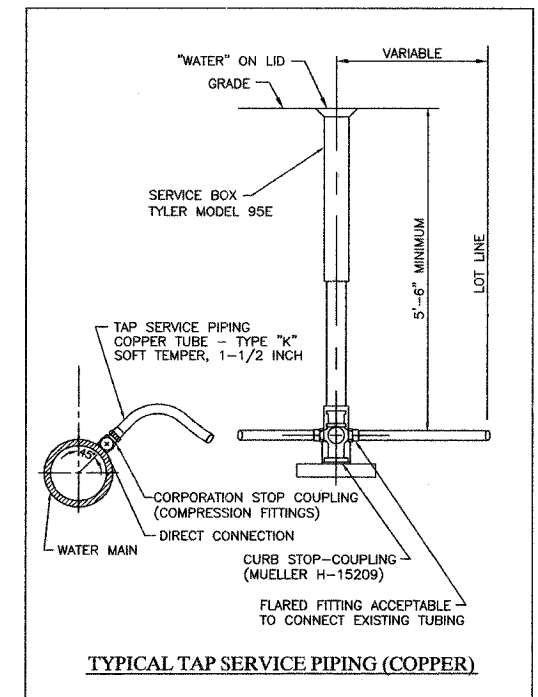
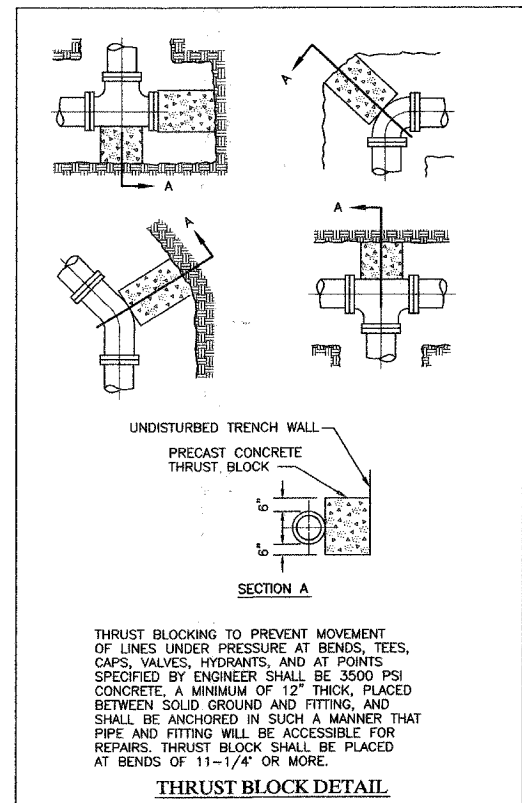
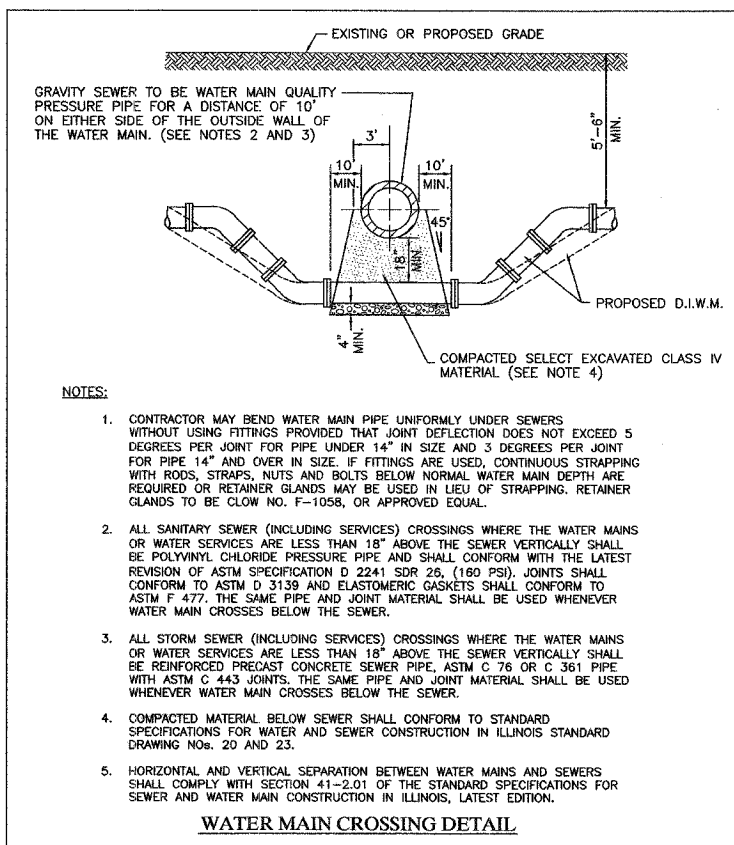
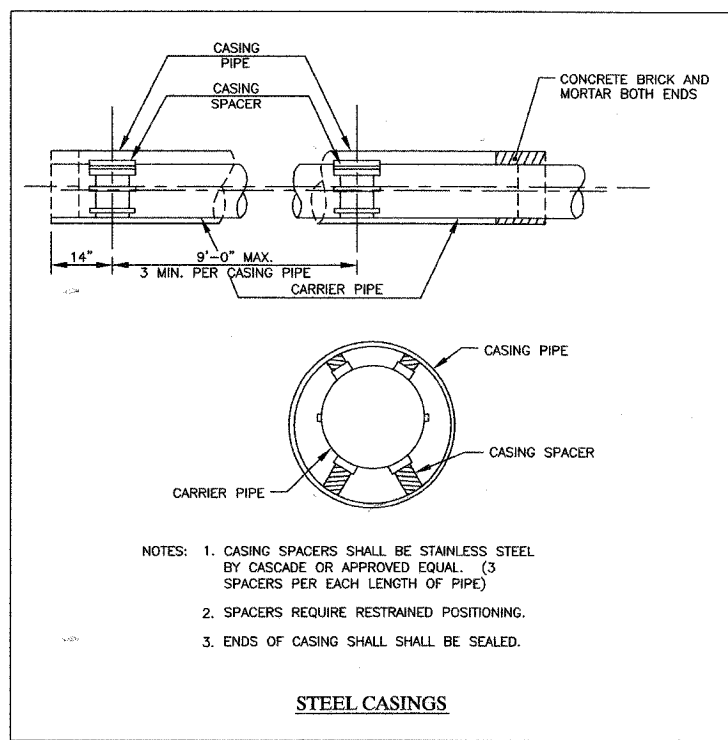
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

WATER MAIN
CONNECTION DETAILS

SCALE: NTS
DATE: 8/15/07

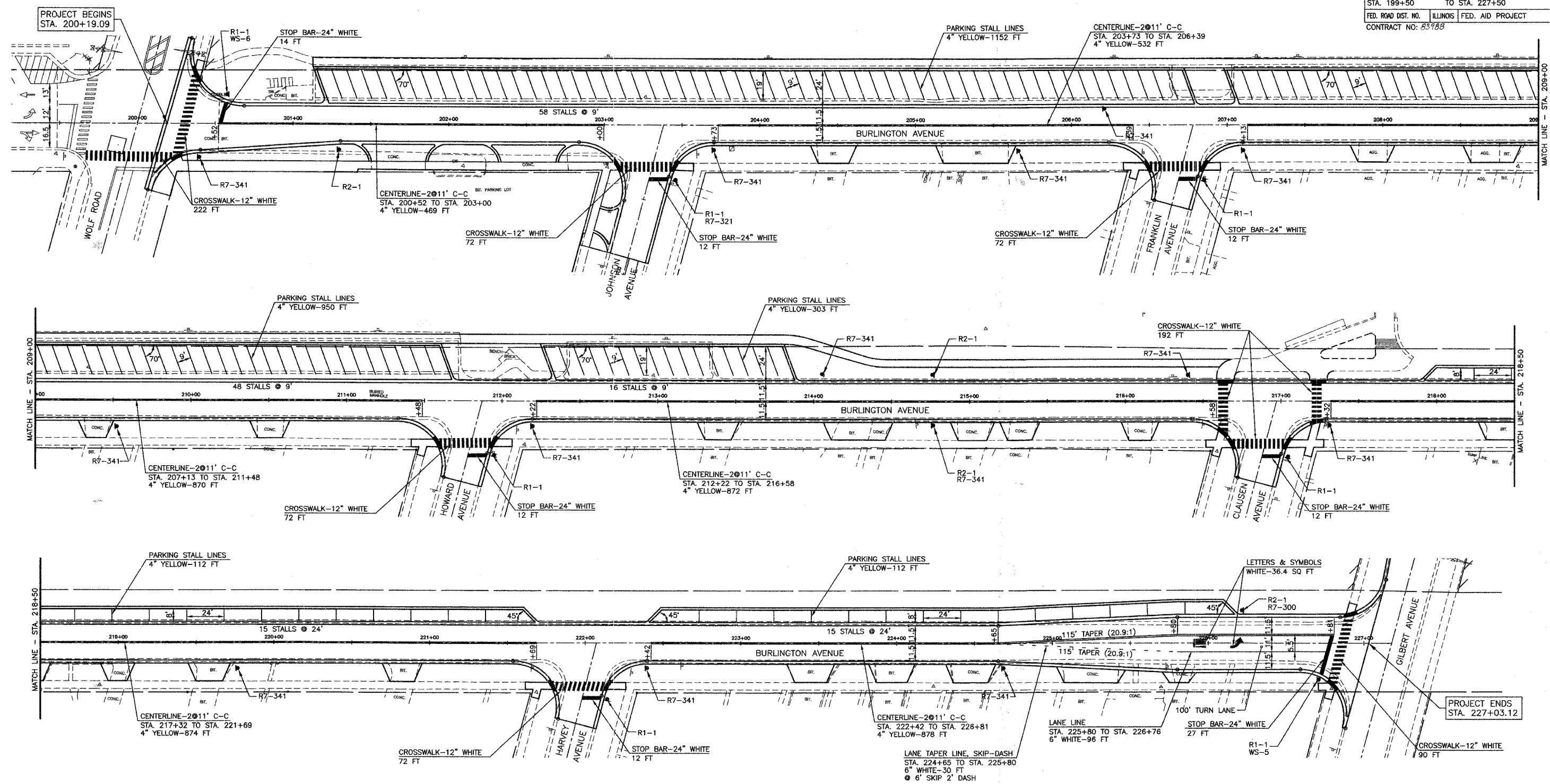
DRAWN BY SMP
CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				

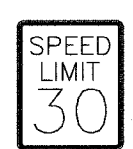


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. 3783 BURLINGTON AVENUE
NAME	DATE	
		WATER MAIN DETAILS
SCALE: NTS		DRAWN BY SMP CHECKED BY BDH
DATE: 8/15/07		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0080-00-FP	COOK	49	25
STA. 199+50		TO STA. 227+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 83988				



R1-1
30"x30"



R2-1
24"x30"



R7-300
12"x18"



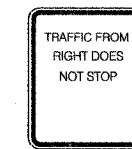
R7-321
12"x18"



R7-341
12"x18"



WS-5



WS-6

NOTES:
1. ALL MARKINGS SHALL BE POLYUREA PAVEMENT MARKINGS.
2. CONTRACTOR SHALL SALVAGE AND REINSTALL EXISTING SIGNS. THIS WORK WILL NOT BE PAID FOR SEPARATELY.
3. ALL NEW SIGNS AS INDICATED ON THE PLANS SHALL BE FURNISHED AND INSTALLED BY OTHERS.

REVISIONS	
NAME	DATE

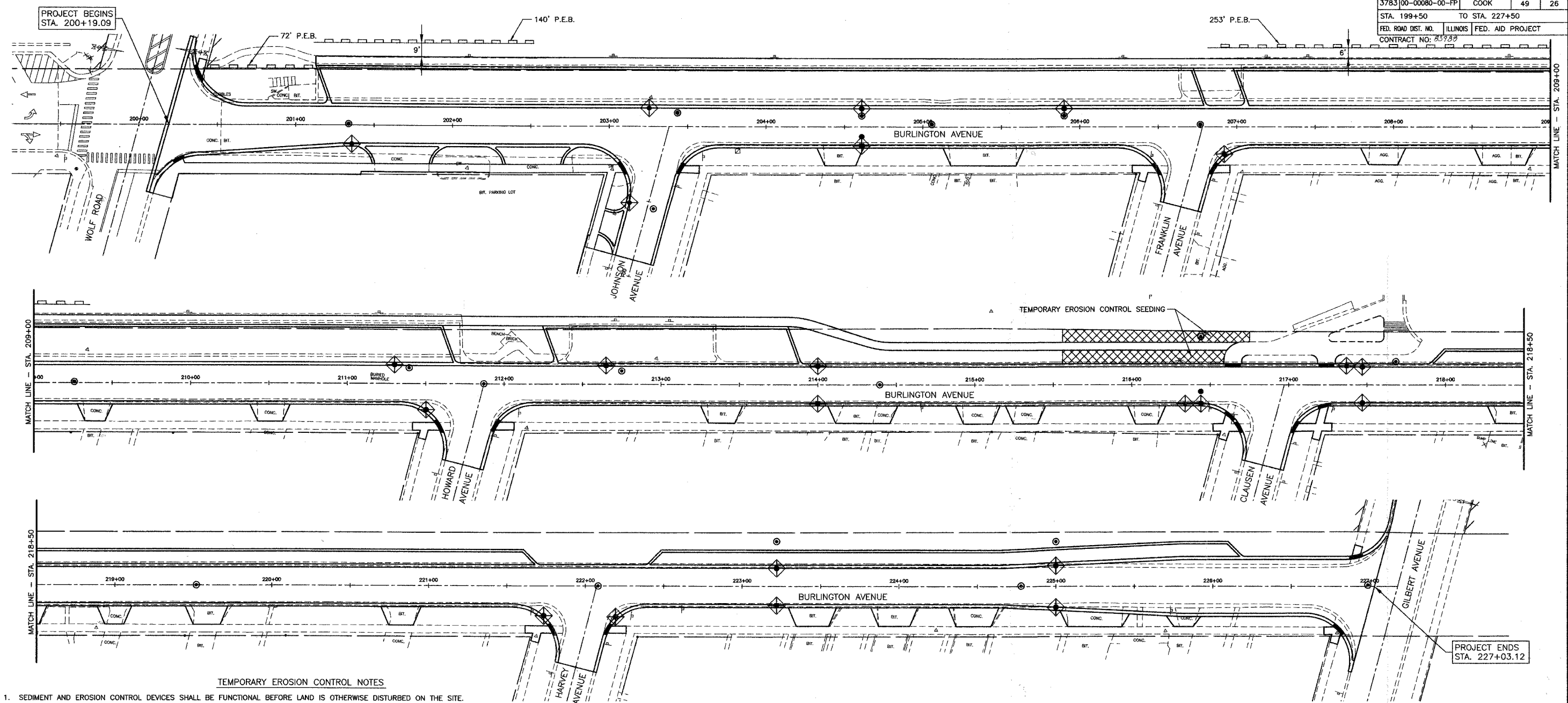
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

PAVEMENT MARKING
AND SIGNAGE PLAN

SCALE: 1"=30'
DATE: 8/15/07

DRAWN BY SMP
CHECKED BY BOH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	26
STA. 199+50		TO STA. 227+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 33933				



TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
2. 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.
3. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.
4. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
5. THE QUANTITIES SHOWN FOR INLET & PIPE PROTECTION AND TEMPORARY DITCH CHECKS ARE SUFFICIENT FOR ONE (1) SETUP AND THREE (3) REPLACEMENTS.
6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED WITHIN 24-HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION.
7. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.
8. AS WORK PROGRESSES, ALL SLOPES STEEPER THAN 3:1 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 FOR ONE MONTH OR MORE, SHALL BE TEMPORARILY SEEDING 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.
9. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.
10. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL HAVE INLET PROTECTION 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".
11. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
12. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.

LEGEND

	PERIMETER EROSION BARRIER (P.E.B.)
	TEMPORARY EROSION CONTROL SEEDING
	INLET FILTERS
	DRAINAGE STRUCTURES

REVISIONS	
NAME	DATE

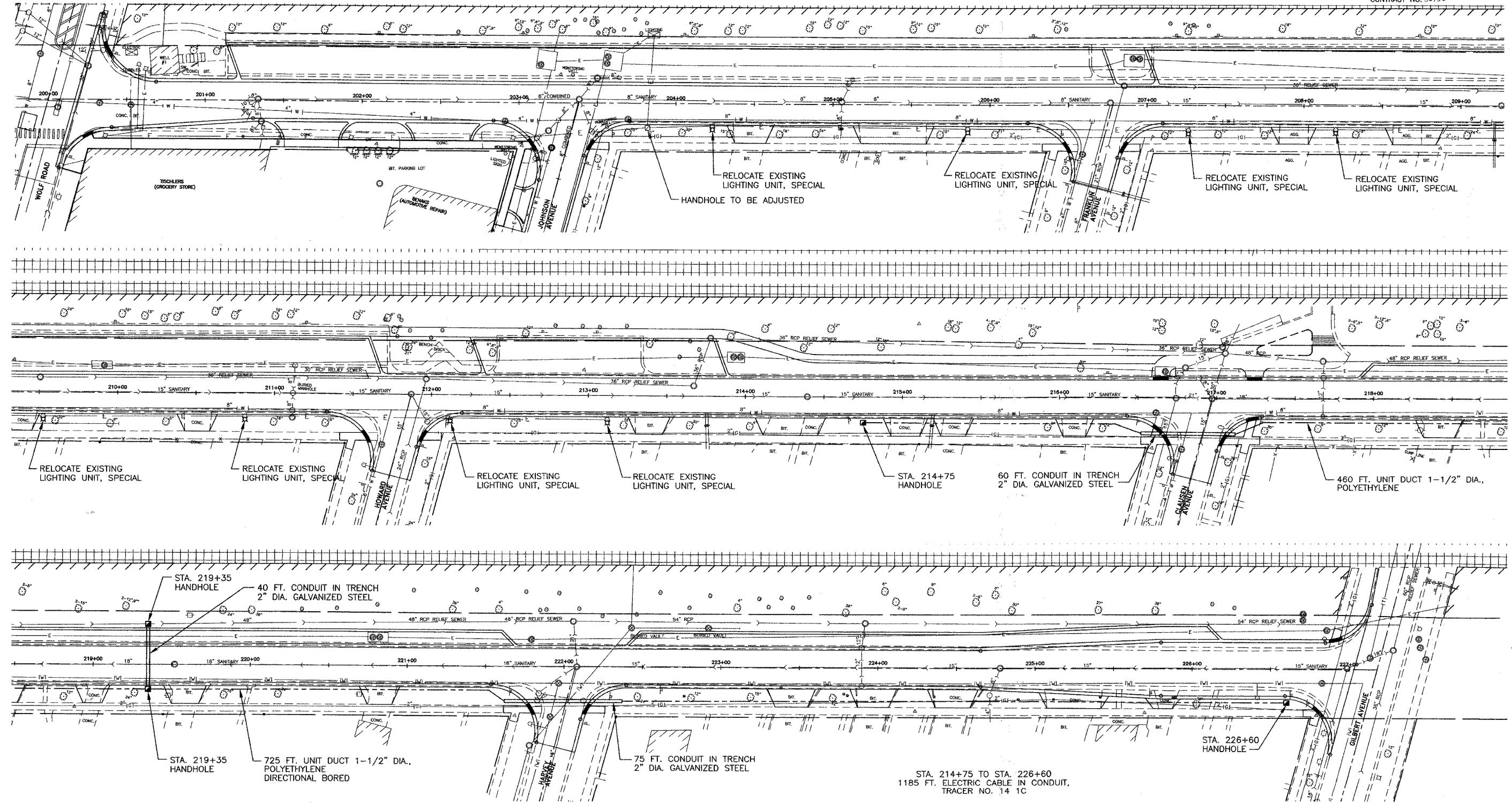
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 3783
 BURLINGTON AVENUE

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=30'
 DATE: 8/15/07

DRAWN BY SMP
 CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83188				



NOTE: STA. 203+80 TO 213+15: THE CONTRACTOR SHALL MATCH THE EXISTING ELECTRICAL CABLE SIZE AND CABLE CONFIGURATION WHICH ARE TO BE REMOVED AND REPLACED DUE TO STREET LIGHT UNITS.

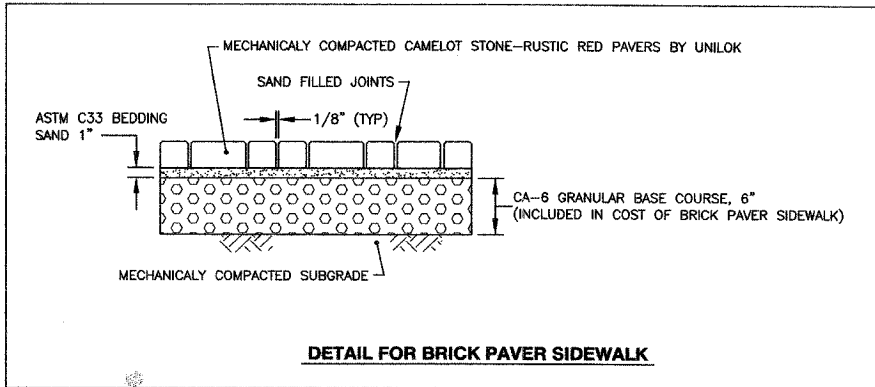
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 3783
 BURLINGTON AVENUE

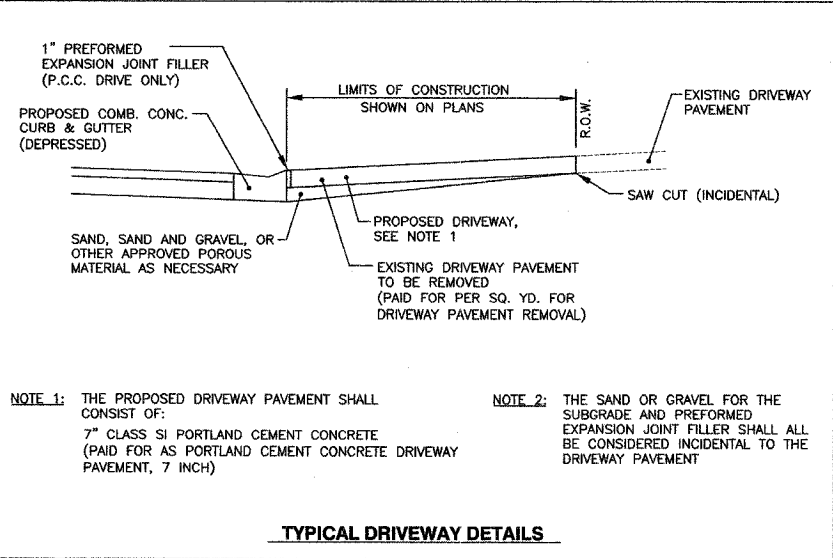
STREET LIGHTING
 MODIFICATIONS AND
 PROPOSED CONDUIT PLAN

SCALE: 1"=30'
 DATE: 8/15/07

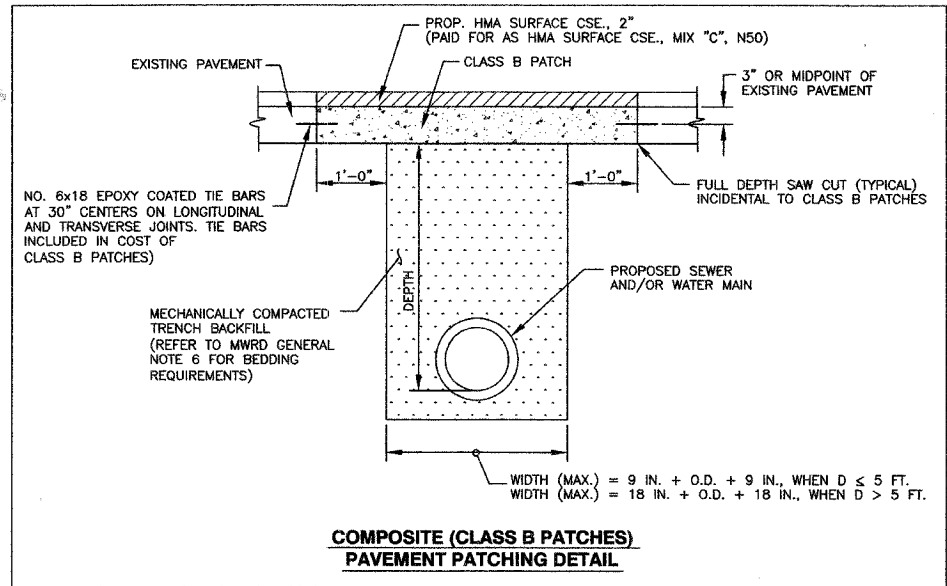
DRAWN BY SMP
 CHECKED BY BOH



DETAIL FOR BRICK PAVER SIDEWALK



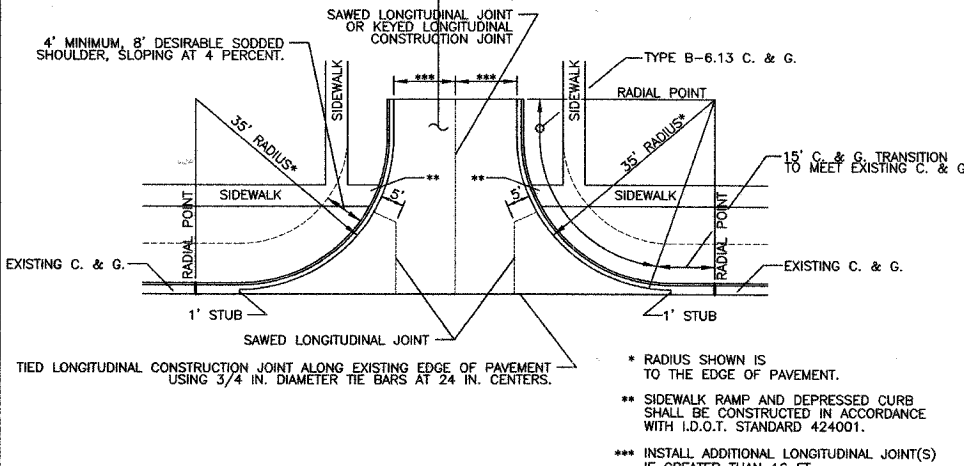
TYPICAL DRIVEWAY DETAILS



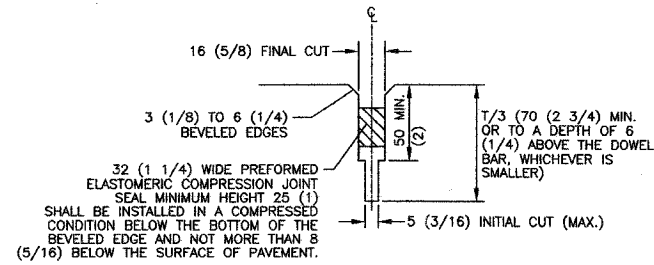
COMPOSITE (CLASS B PATCHES) PAVEMENT PATCHING DETAIL

- CONSTRUCTION NOTES**
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - SAW CUT FULL DEPTH AT LIMITS OF PAVEMENT AND CURB AND GUTTER REMOVAL.
 - CONSTRUCT PAVEMENT FABRIC IN ACCORDANCE WITH I.D.O.T. STANDARD 420701 AND PROVIDE 3 1/2 INCHES CLEARANCE BETWEEN PAVEMENT SURFACE AND TOP OF FABRIC.
 - CONSTRUCT CURB AND GUTTER AND TIE INTO EXISTING AND PROPOSED PAVEMENT IN ACCORDANCE WITH I.D.O.T. STANDARD 606001.
 - CONSTRUCT ALL JOINTS IN ACCORDANCE WITH I.D.O.T. STANDARD 420001 AND ARTICLE 420.10 OF THE STANDARD SPECIFICATIONS.

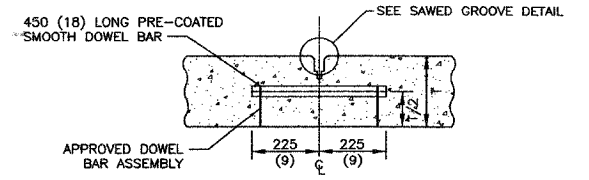
PAVEMENT COMPOSITION
 10 IN. P.C. CONCRETE PAVEMENT WITH PAVEMENT FABRIC
 6 IN. SUBBASE GRANULAR MATERIAL, TYPE B
 (EXTENDED 1 FT. BEYOND BACK OF CURB)



P.C. CONCRETE STREET ENTRANCE



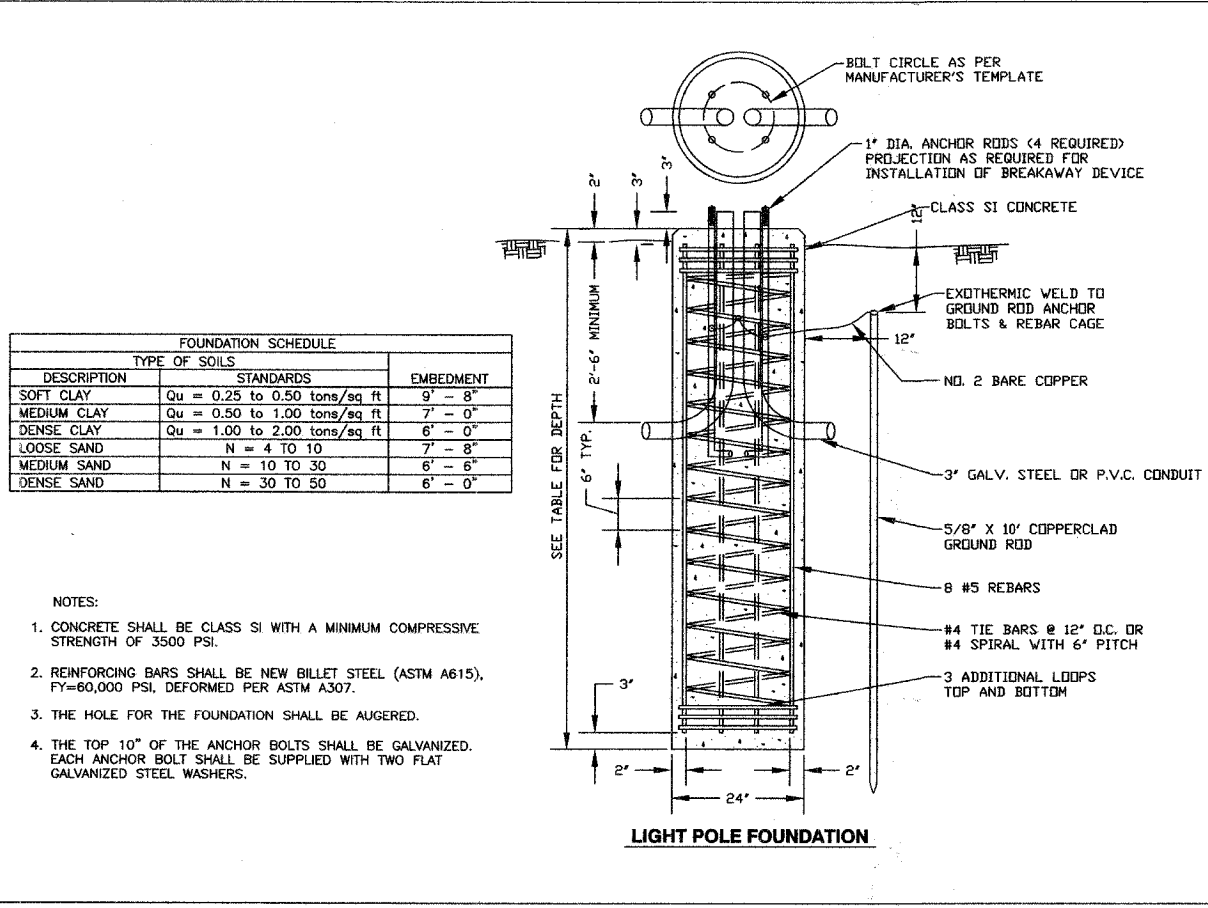
C.C.H.D. SAWED GROOVE DETAIL



C.C.H.D. SAWED CONTRACTION JOINT

C.C.H.D. CONSTRUCTION DETAILS APPLY TO AREA WITHIN COOK COUNTY RIGHT-OF-WAY AT INTERSECTION OF BURLINGTON AVENUE AND WOLF ROAD.

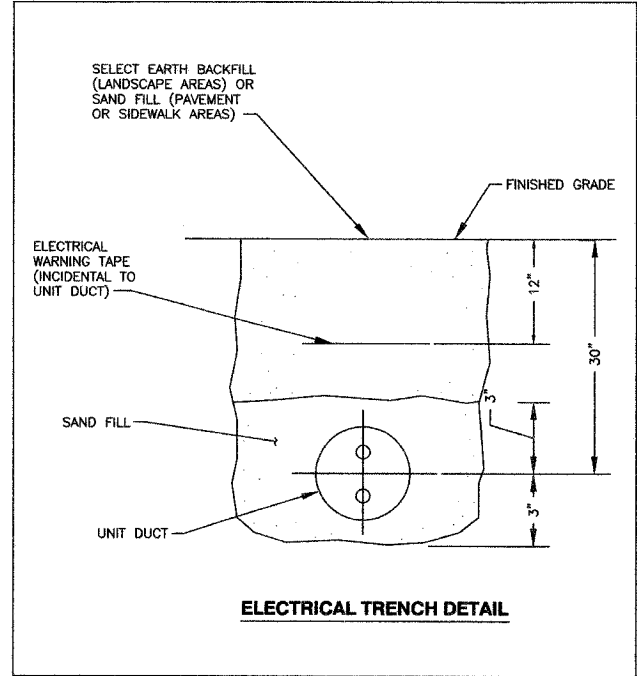
- NOTE 1:** THE PROPOSED DRIVEWAY PAVEMENT SHALL CONSIST OF:
 7" CLASS SI PORTLAND CEMENT CONCRETE (PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH)
- NOTE 2:** THE SAND OR GRAVEL FOR THE SUBGRADE AND PREFORMED EXPANSION JOINT FILLER SHALL ALL BE CONSIDERED INCIDENTAL TO THE DRIVEWAY PAVEMENT



LIGHT POLE FOUNDATION

FOUNDATION SCHEDULE		
DESCRIPTION	STANDARDS	EMBEDMENT
SOFT CLAY	Qu = 0.25 to 0.50 tons/sq ft	9' - 8"
MEDIUM CLAY	Qu = 0.50 to 1.00 tons/sq ft	7' - 0"
DENSE CLAY	Qu = 1.00 to 2.00 tons/sq ft	6' - 0"
LOOSE SAND	N = 4 TO 10	7' - 8"
MEDIUM SAND	N = 10 TO 30	6' - 6"
DENSE SAND	N = 30 TO 50	6' - 0"

- NOTES:**
- CONCRETE SHALL BE CLASS SI WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.
 - REINFORCING BARS SHALL BE NEW BILLET STEEL (ASTM A615), Fy=60,000 PSI, DEFORMED PER ASTM A307.
 - THE HOLE FOR THE FOUNDATION SHALL BE AUGERED.
 - THE TOP 10" OF THE ANCHOR BOLTS SHALL BE GALVANIZED. EACH ANCHOR BOLT SHALL BE SUPPLIED WITH TWO FLAT GALVANIZED STEEL WASHERS.



ELECTRICAL TRENCH DETAIL

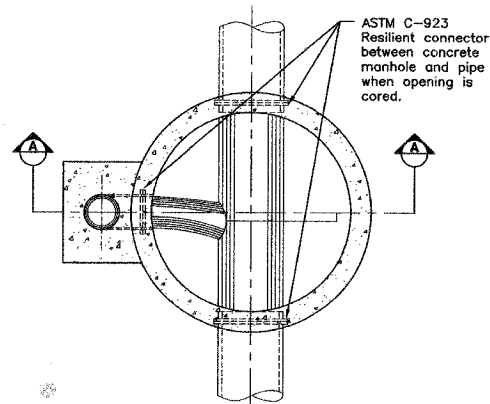
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 3783
 BURLINGTON AVENUE

CONSTRUCTION DETAILS

SCALE: NTS
 DATE: 8/15/07

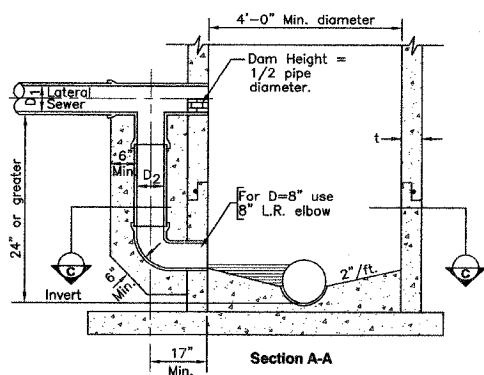
DRAWN BY SMP
 CHECKED BY BDH



ASTM C-923 Resilient connector between concrete manhole and pipe when opening is cored.

D ₁ (Inches)	D ₂ (Inches)
6	8
8	8
10	8
12	8
15	10
18	12
21	15
24	18

Section C-C



Section A-A

Notes:

D₂ shall be no smaller than two (2) nominal diameters less than D₁, but not less than 8".

Details and material for drop manhole shall be same as for standard manhole except for lateral sewer connection as shown.

Manhole to be cast-in-place concrete or Type "A" w/ precast concrete sections and bottom (as shown).

Invert of elbow to be placed even with the level of the bench.

Minimum wall thickness "t" for drop manhole:

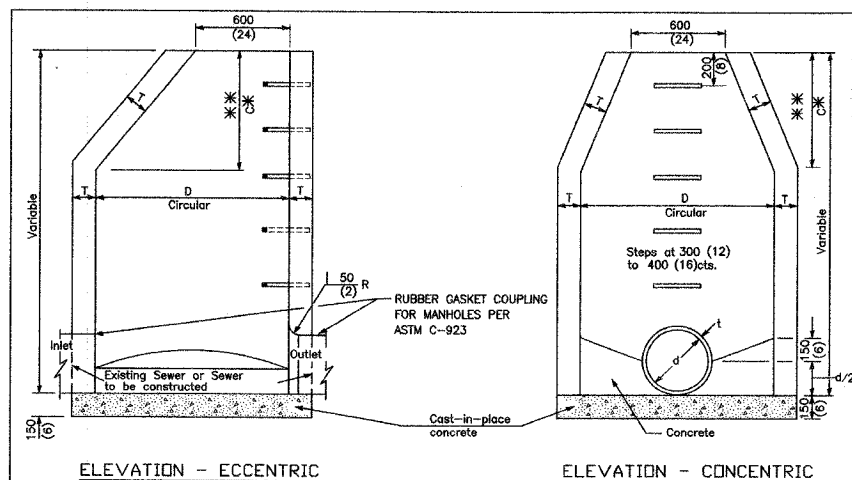
- a. 6" for cast-in-place concrete
- b. 1/12 manhole diameter for precast concrete.

Concrete for encasement shall be 3000 psi @ 28 days, minimum.

Manhole steps are omitted for clarity.

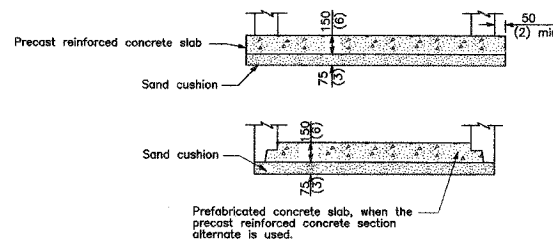
Standard Drop Manhole

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO ENGINEERING DEPARTMENT 1042 Local Sewer Systems TRR-SDO



ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
Concrete-Masonry Unit	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	125 (5) 125 (5)
Brick-Masonry	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	200 (8) 200 (8)
Precast Reinforced Concrete Section	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	100 (4) 125 (5)
Cast-in-place Concrete	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	150 (6) 150 (6)

GENERAL NOTES

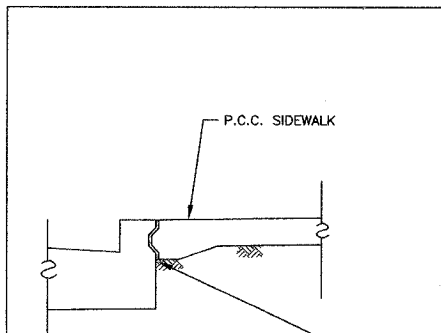
See Standard 602701 for details of steps.

* Dimension "c" for Precast Reinforced Concrete Sections may vary from the dimension given to plus 150 mm (6").

** See Standard 602601 for Optional Precast Reinforced Concrete Flat Slab Top.

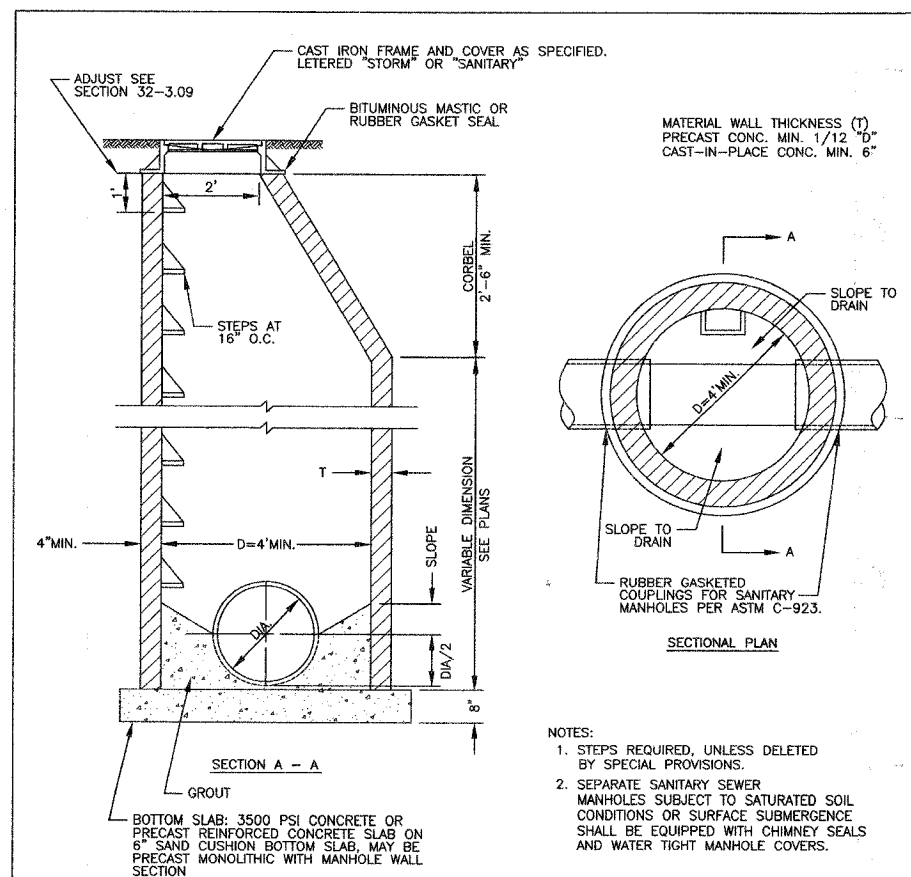
All dimensions are in millimeters (inches) unless otherwise shown.

MANHOLE TYPE A



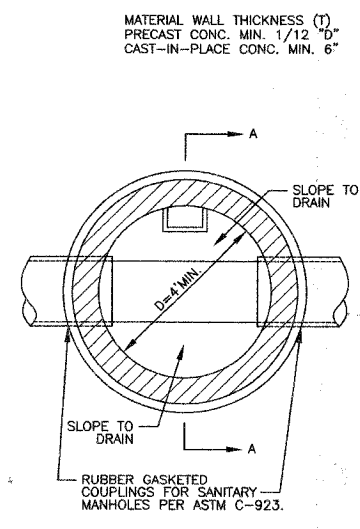
PROPOSED CURB AND GUTTER SHALL BE CONSTRUCTED WITH KEYWAY TO SUPPORT ADJACENT SIDEWALK. (COST SHALL BE INCIDENTAL TO CURB AND GUTTER AND SIDEWALK ITEMS)

SIDEWALK ADJACENT TO NEW CURB AND GUTTER



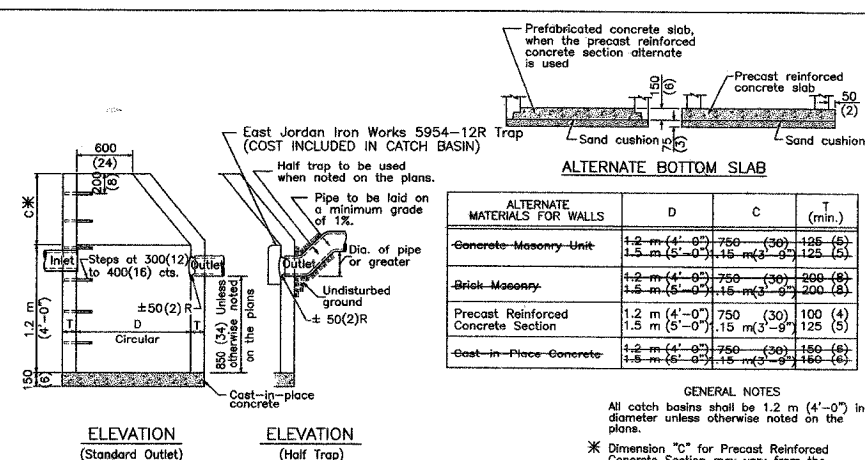
SECTION A - A

SANITARY SEWER MANHOLE



SECTIONAL PLAN

- NOTES:**
1. STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.
 2. SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.



ELEVATION (Standard Outlet)

ELEVATION (Half Trap)

ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
Concrete-Masonry Unit	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	125 (5) 125 (5)
Brick-Masonry	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	200 (8) 200 (8)
Precast Reinforced Concrete Section	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	100 (4) 125 (5)
Cast-in-Place Concrete	1.2 m (4'-0") 1.5 m (5'-0")	750 (30) 115 m (3'-9")	150 (6) 150 (6)

GENERAL NOTES

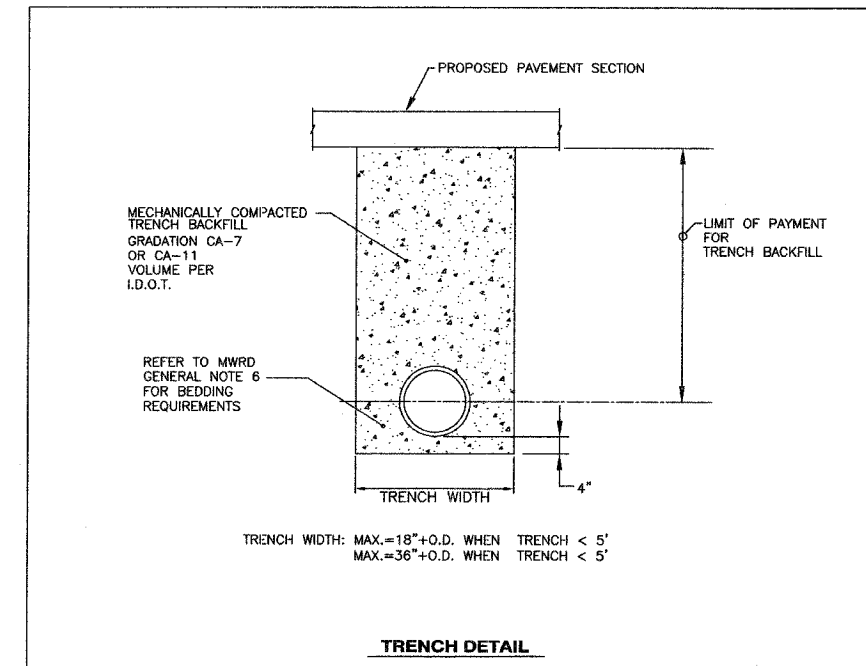
All catch basins shall be 1.2 m (4'-0") in diameter unless otherwise noted on the plans.

* Dimension "c" for Precast Reinforced Concrete Section may vary from the dimension given to plus 150 mm (6").

See Standard 602601 for optional precast reinforced concrete flat top slab.

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

CATCH BASIN TYPE A



TRENCH DETAIL

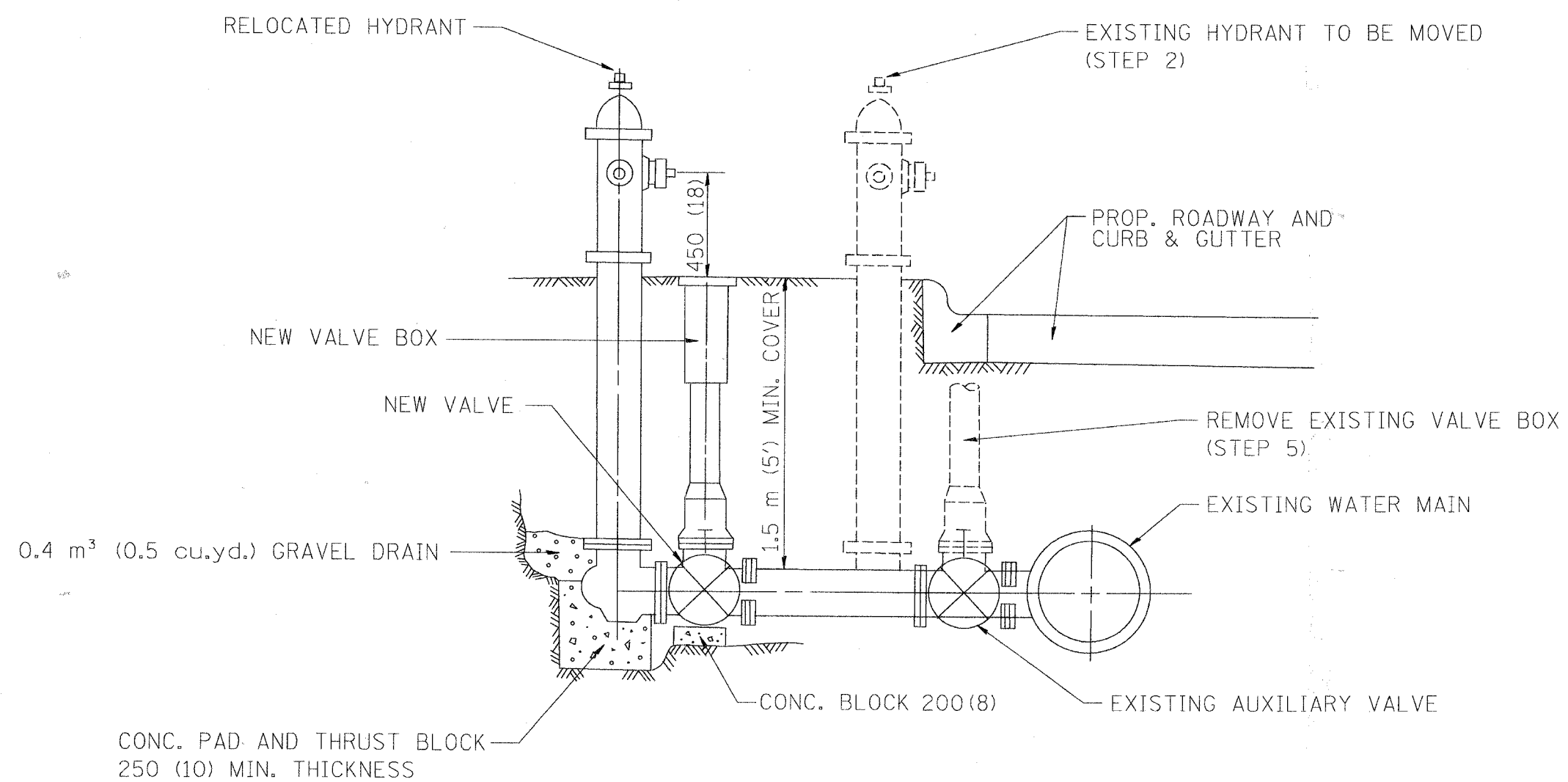
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 3783
BURLINGTON AVENUE

CONSTRUCTION DETAILS

SCALE: NTS
DATE: 8/15/07
DRAWN BY SMP
CHECKED BY BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0000-00-FP	COOK	49	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83968				



- SEQUENCE OF CONSTRUCTION:
1. CLOSE EXISTING VALVE.
 2. REMOVE EXISTING HYDRANT.
 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
 4. RELOCATE EXISTING HYDRANT.
 5. OPEN EXISTING VALVE, REMOVE BOX.
 6. BACKFILL.
 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94

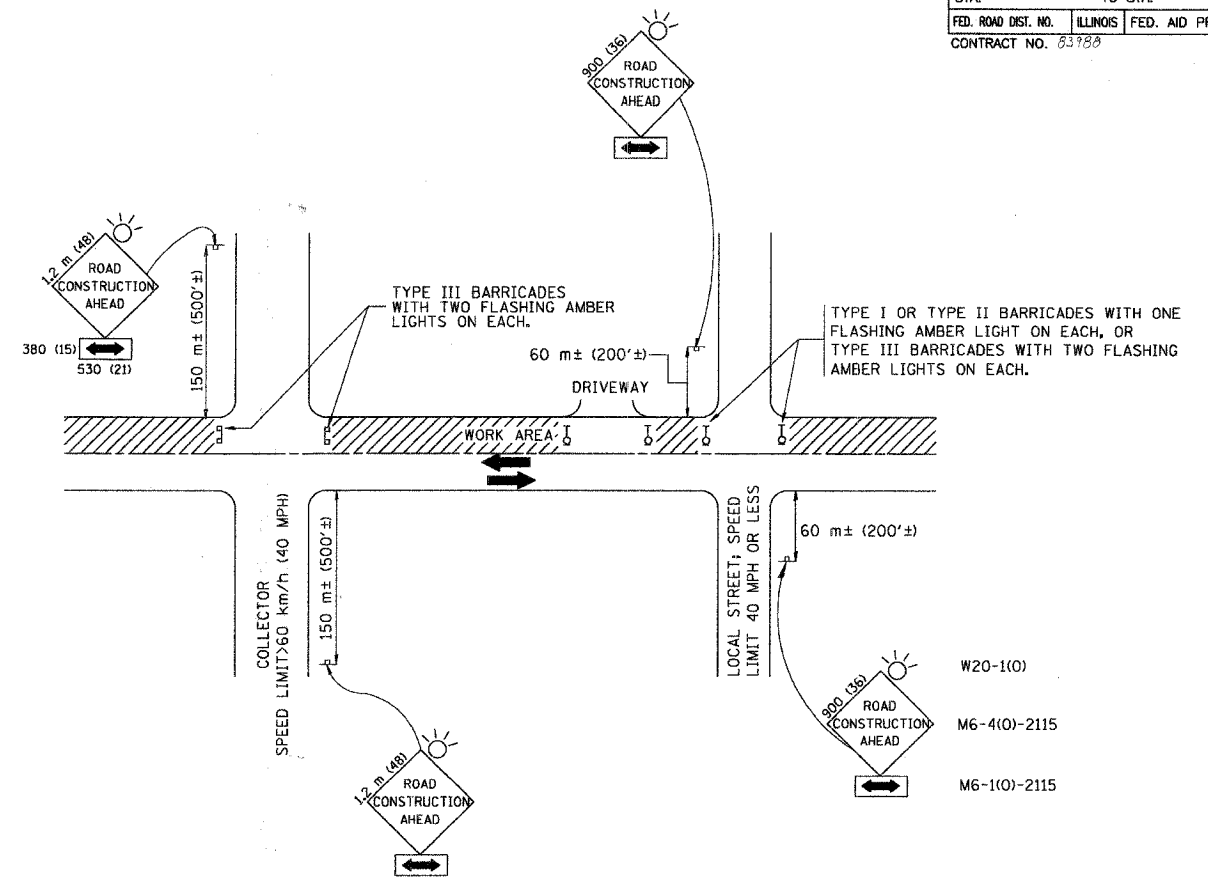
SCALE: NONE
DATE 10/18/2002

DRAWN BY
CHECKED BY
BD500-03 (BD-36)

DATE-TIME
DGN-SPEC
V1-BD36

REVISION DATE: 10/25/94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-PP	COOK	49	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83788				



W20-1(0)
M6-4(0)-2115
M6-1(0)-2115

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

NOTES:

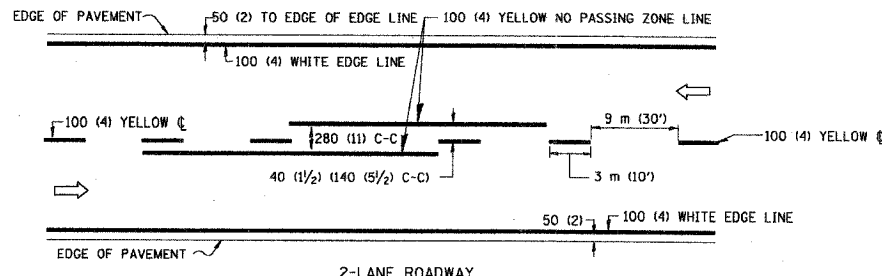
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

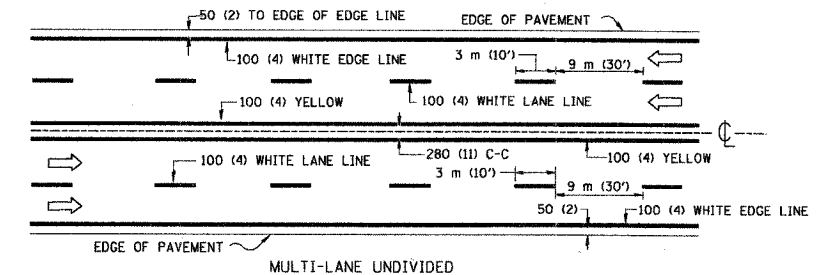
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND
DRIVEWAYS

SCALE: VERT.
DATE 10/18/2002
DRAWN BY
CHECKED BY
TC-10

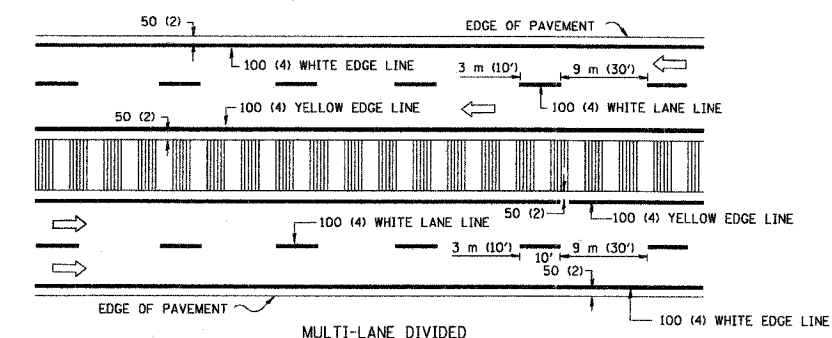
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00-FP	COOK	49	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				



2-LANE ROADWAY



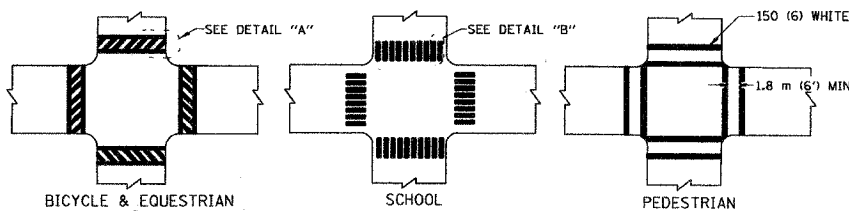
MULTI-LANE UNDIVIDED



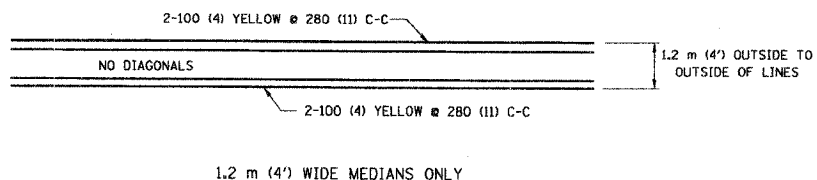
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

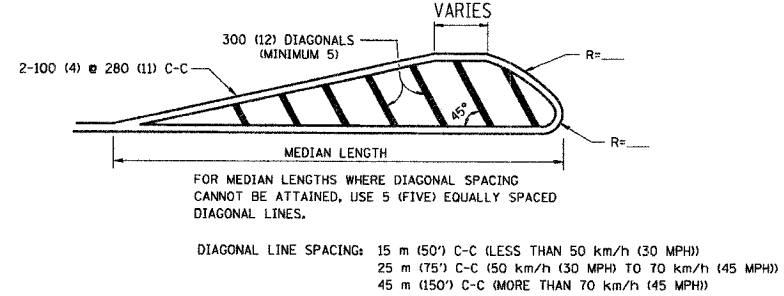
TYPICAL LANE AND EDGE LINE MARKING



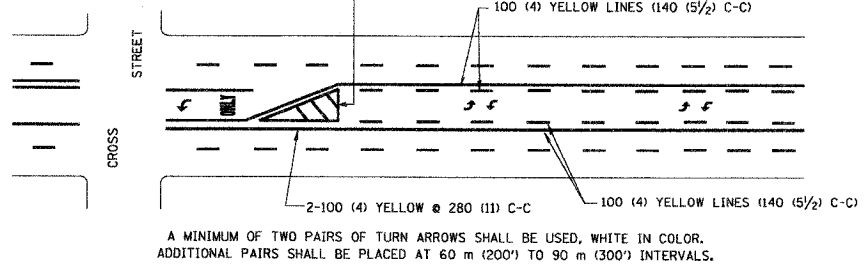
TYPICAL CROSSWALK MARKING



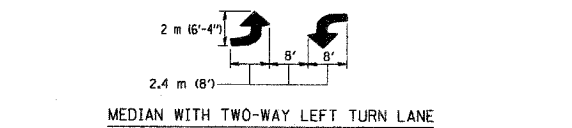
1.2 m (4') WIDE MEDIANS ONLY



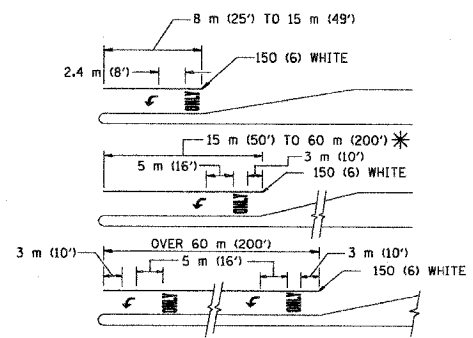
MEDIANS OVER 1.2 m (4') WIDE



TYPICAL PAINTED MEDIAN MARKING



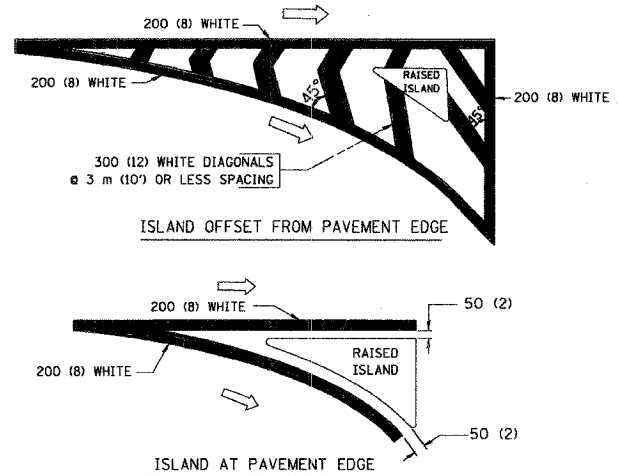
MEDIAN WITH TWO-WAY LEFT TURN LANE



TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
 AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)
 * TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



TYPICAL ISLAND MARKING

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

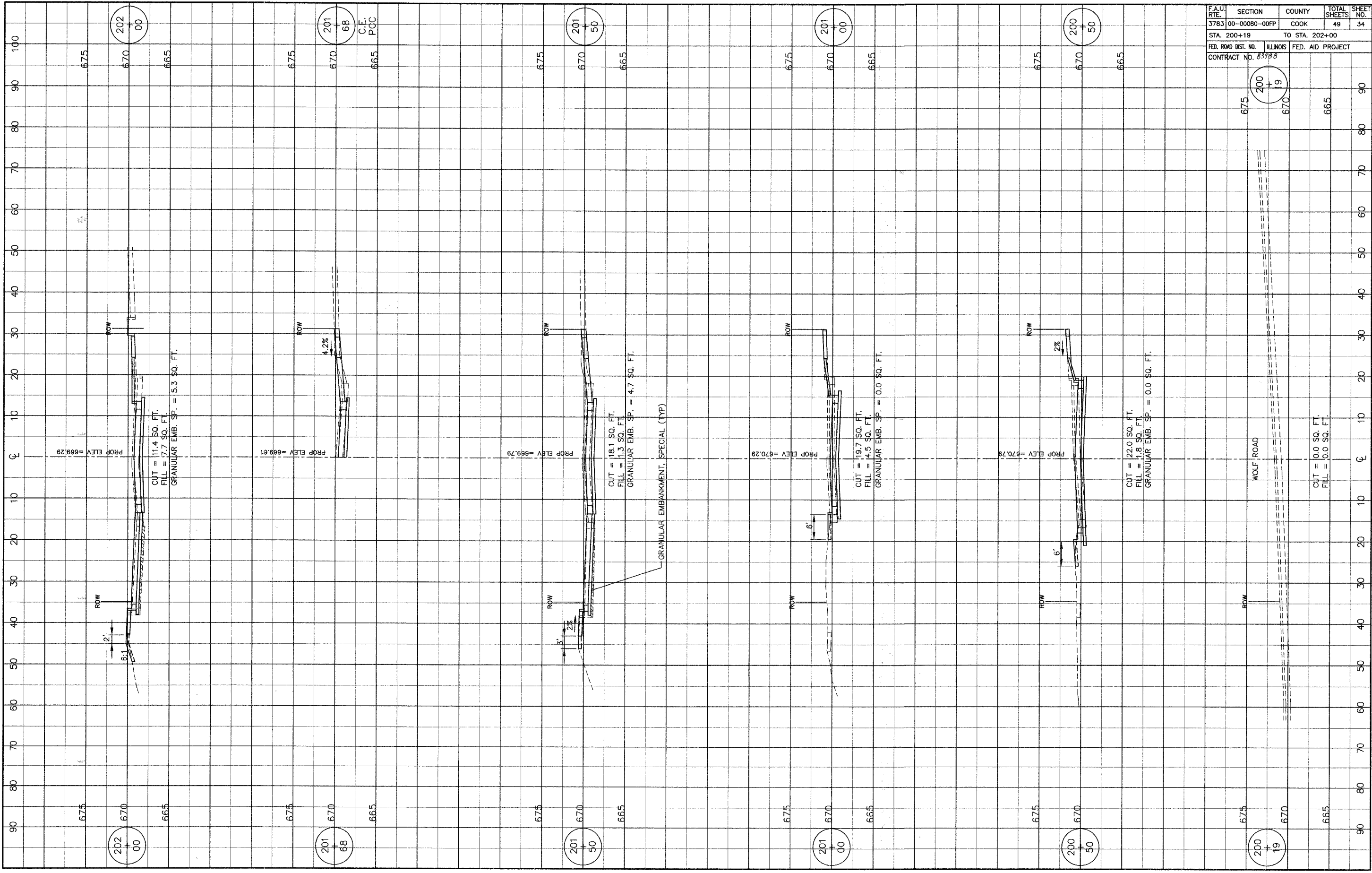
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

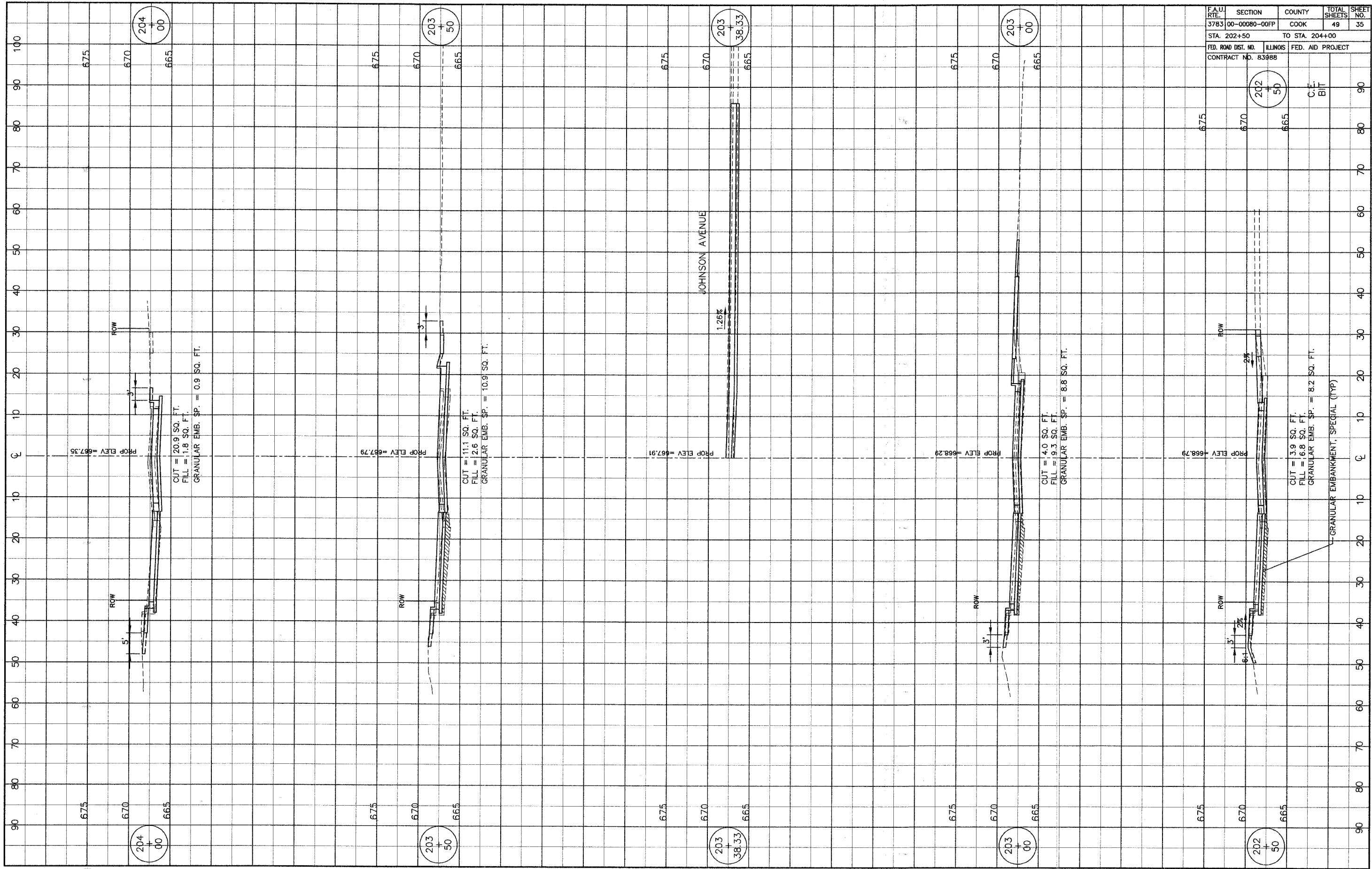
SCALE: NONE
DATE 10/18/2002

DRAWN BY CADD
CHECKED BY

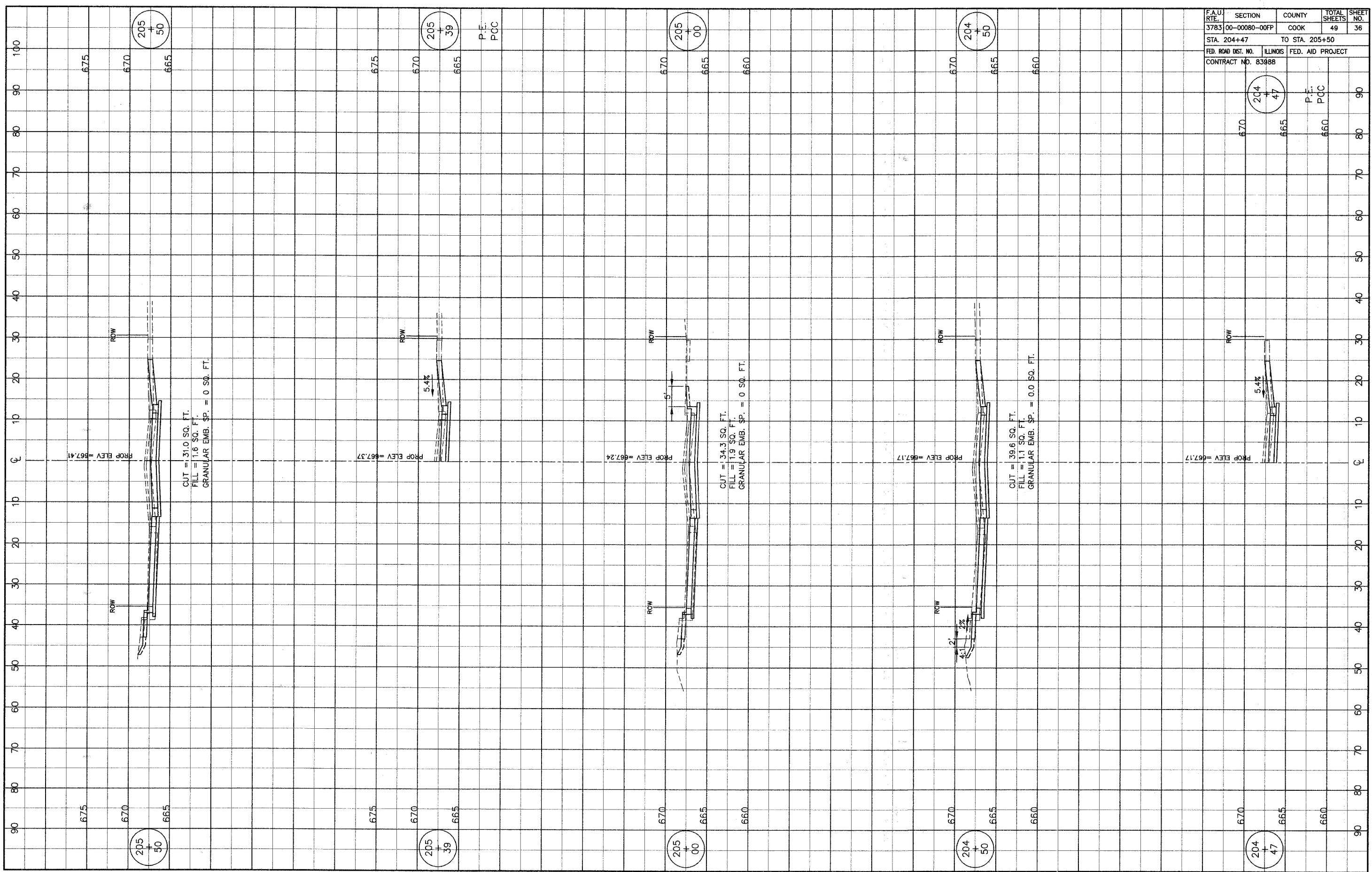
REVISION DATE: 01/06/00



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	34
STA. 200+19		TO STA. 202+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				



F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	35
STA. 202+50		TO STA. 204+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				



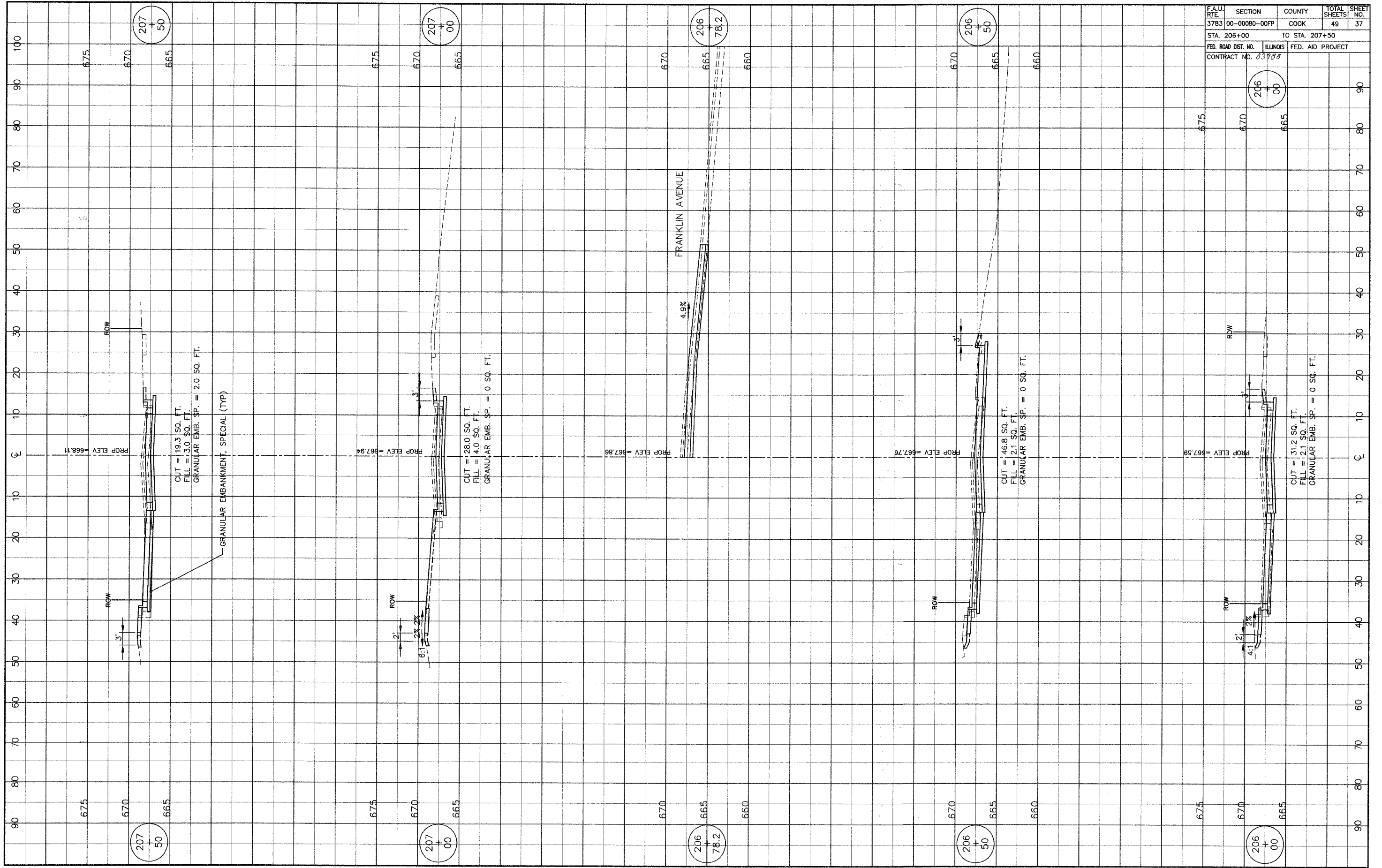
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	36
STA. 204+47		TO STA. 205+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				

204
+
47

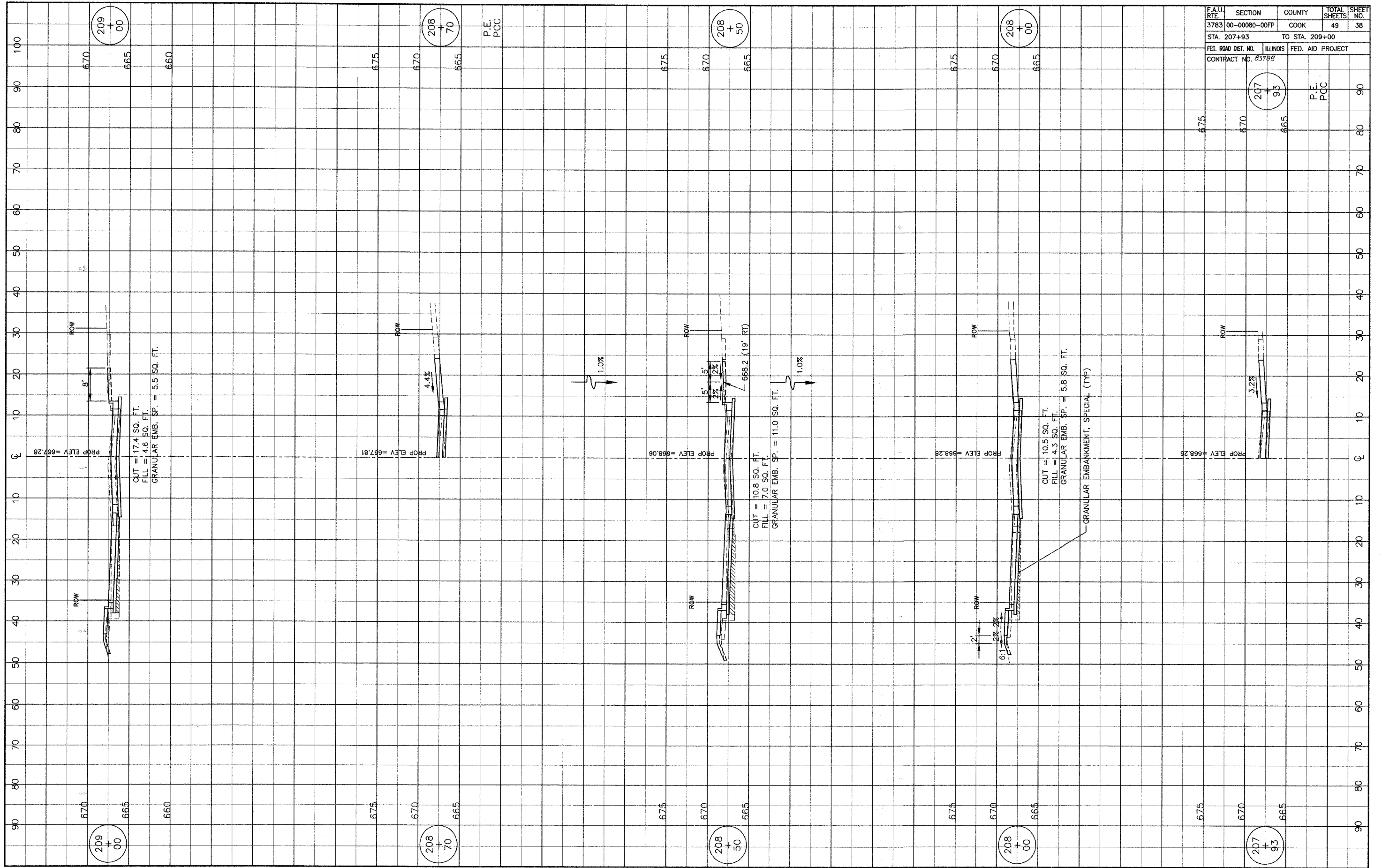
P.E.
P.C.C.

204
+
47

P.E.
P.C.C.

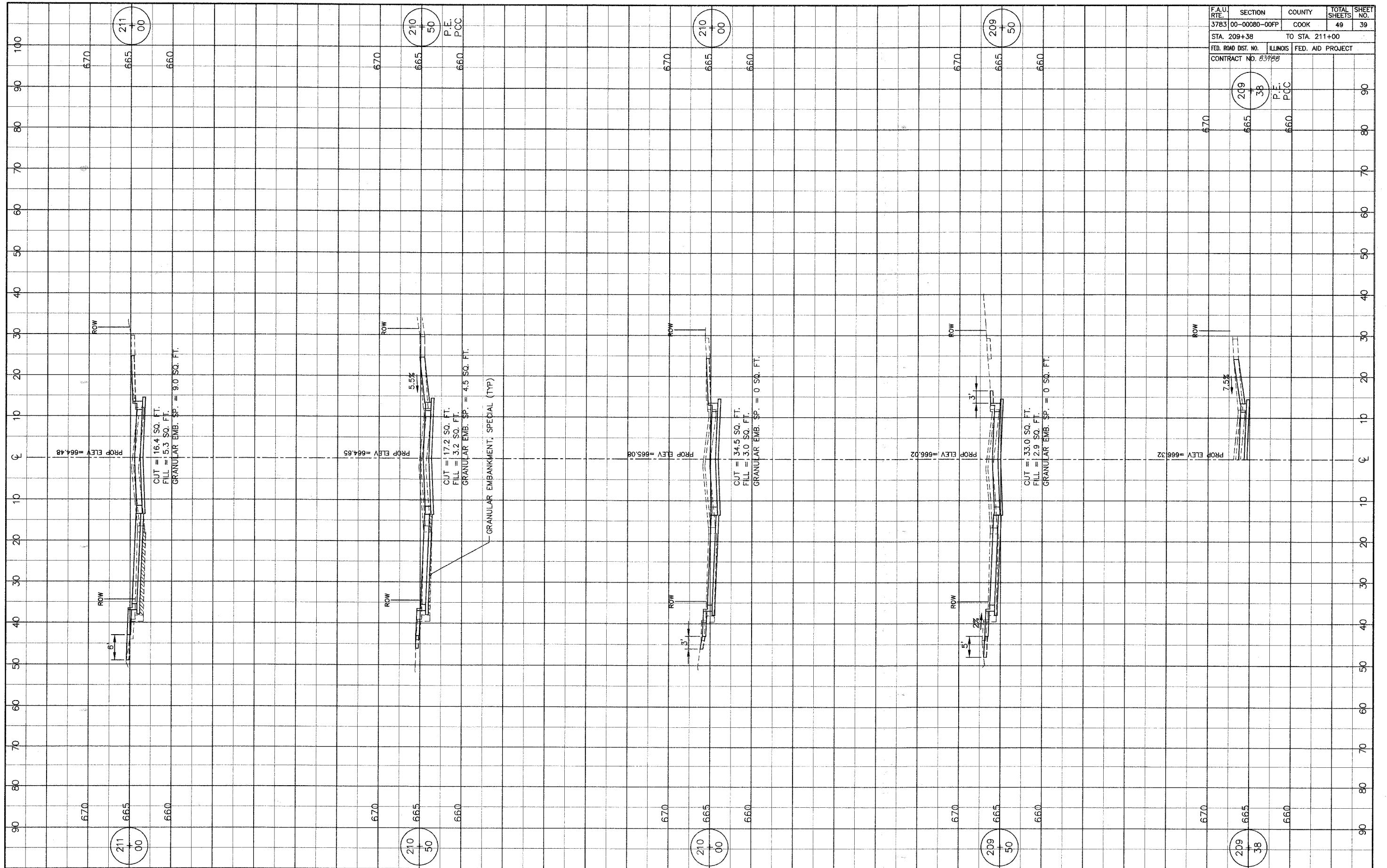


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	37
STA. 206+00		TO STA. 207+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				



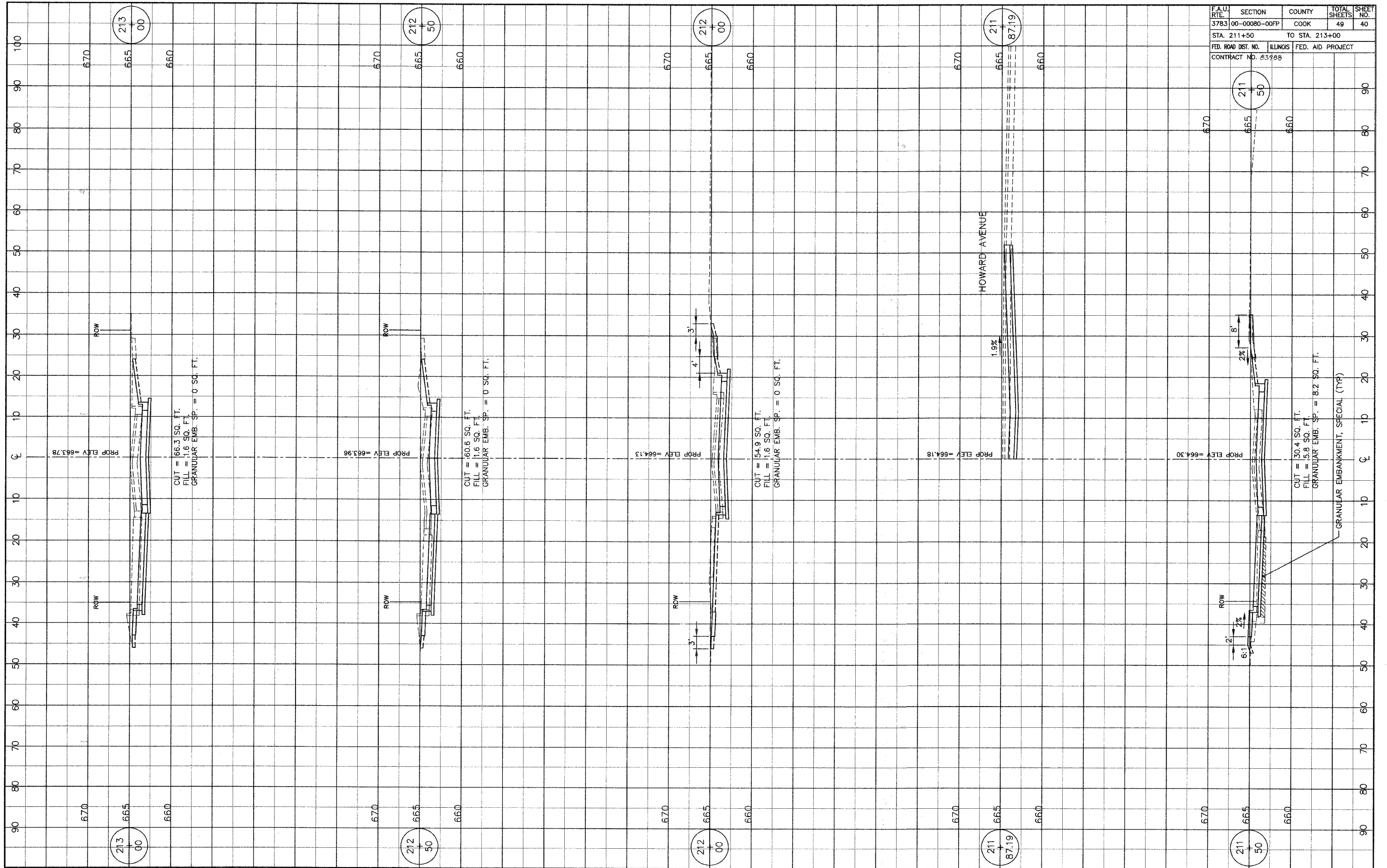
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00PP	COOK	49	38
STA. 207+93		TO STA. 209+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83786				

207+93	P.E.	
675	P.C.C.	
670		
665		

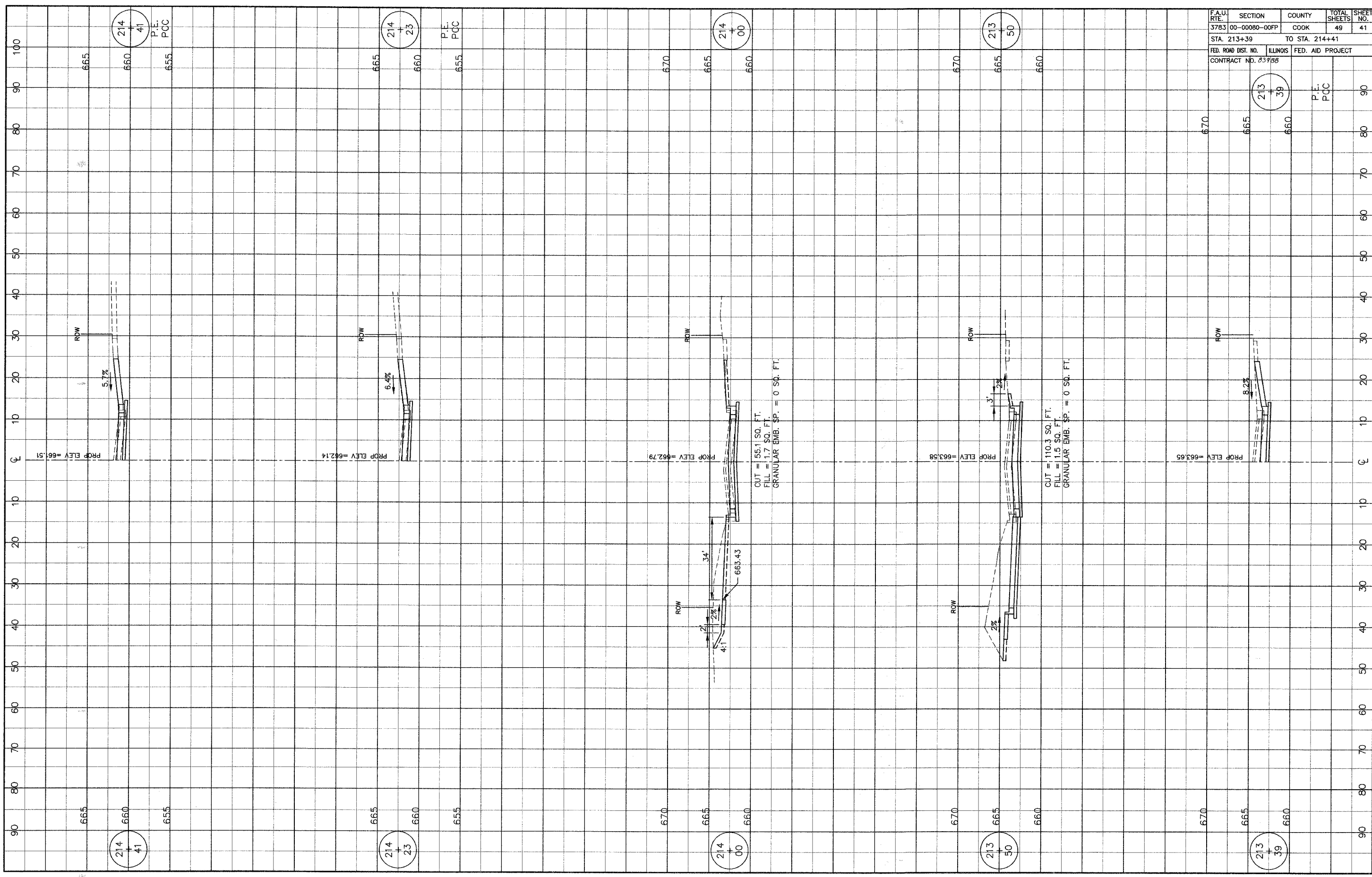


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-0080-00FP	COOK	49	39
STA. 209+38		TO STA. 211+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83988				

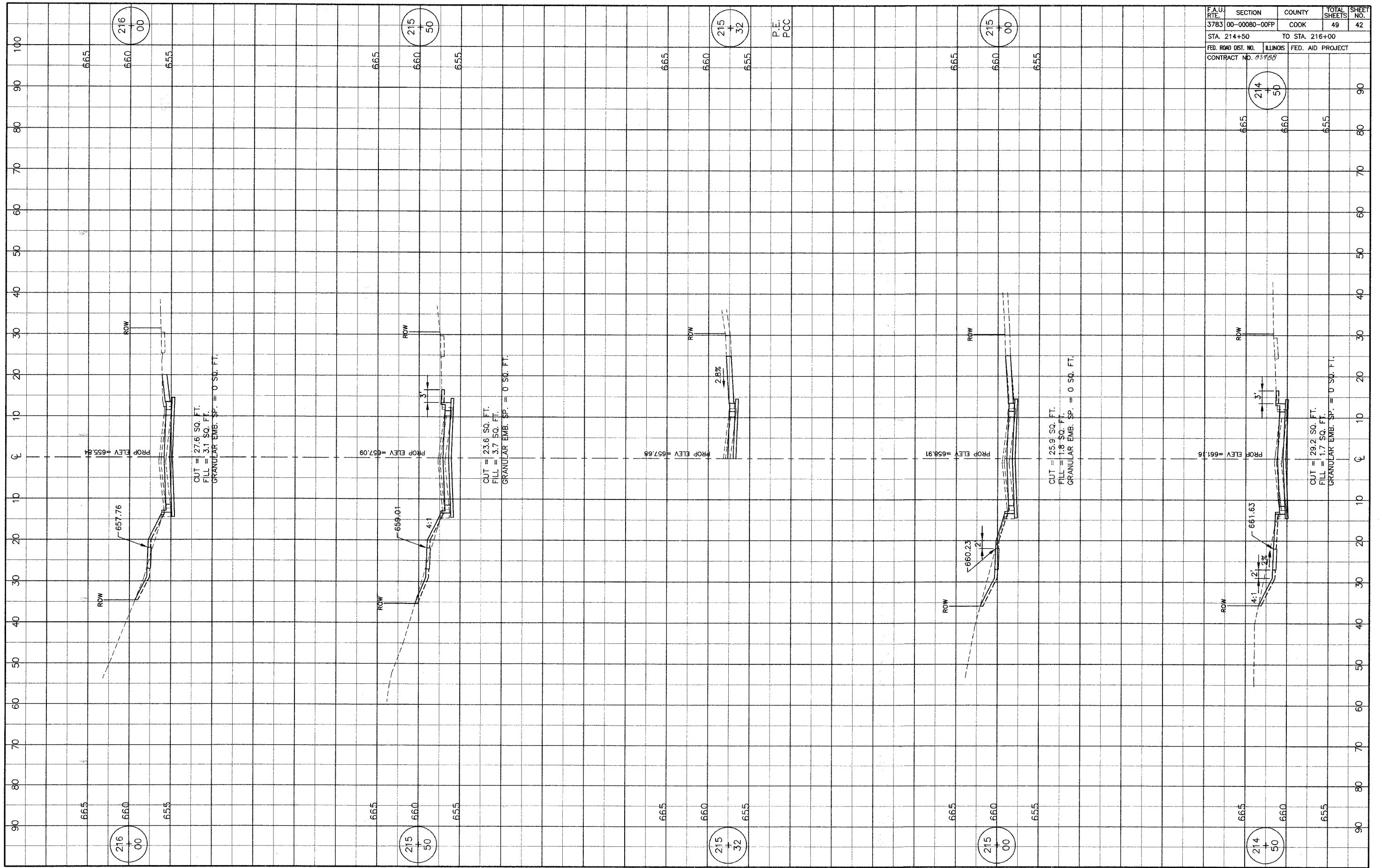
211	00	210	50	210	00	209	50	209	38
P.E.					P.C.C.				



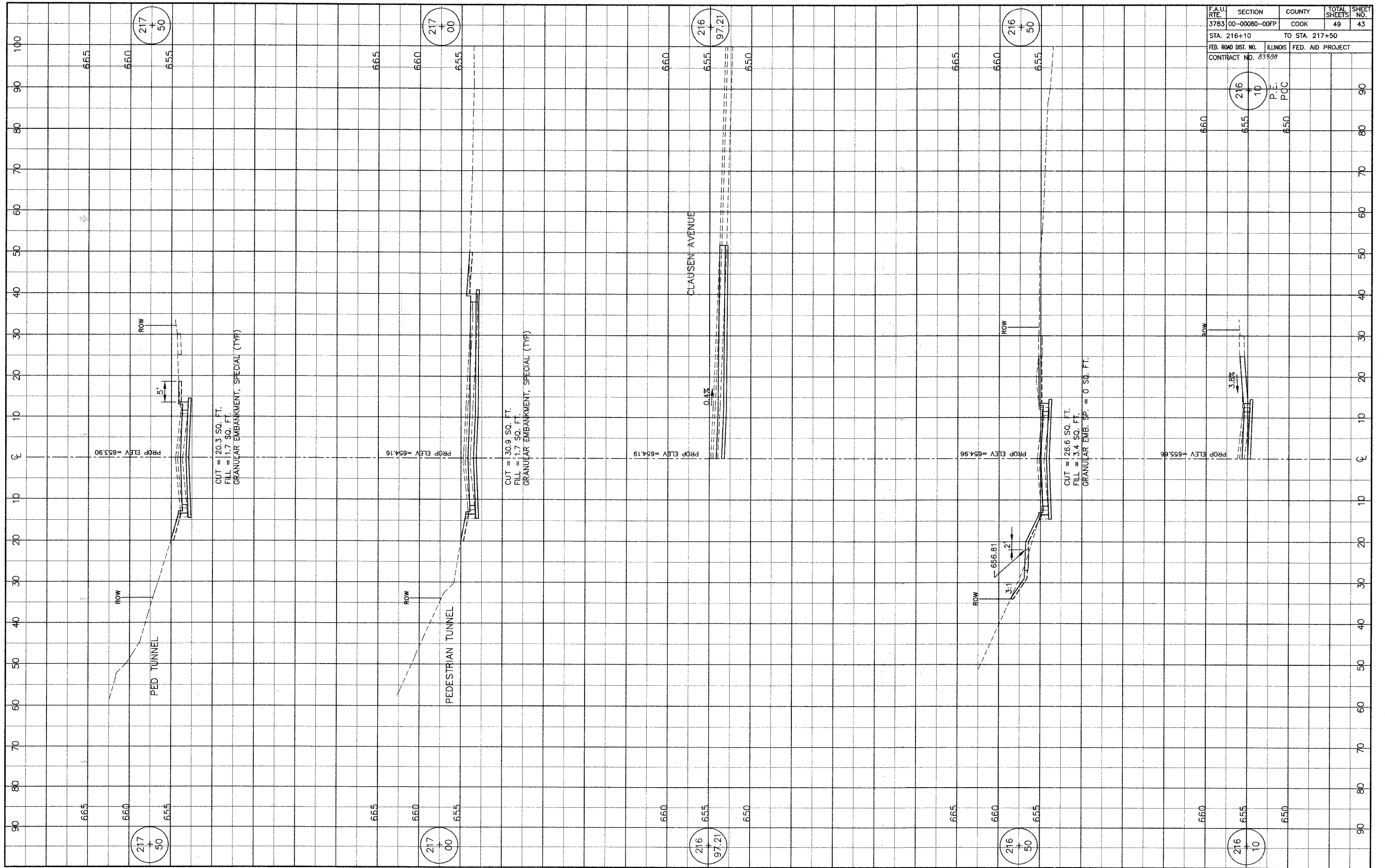
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	40
STA. 211+50		TO STA. 213+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63768				



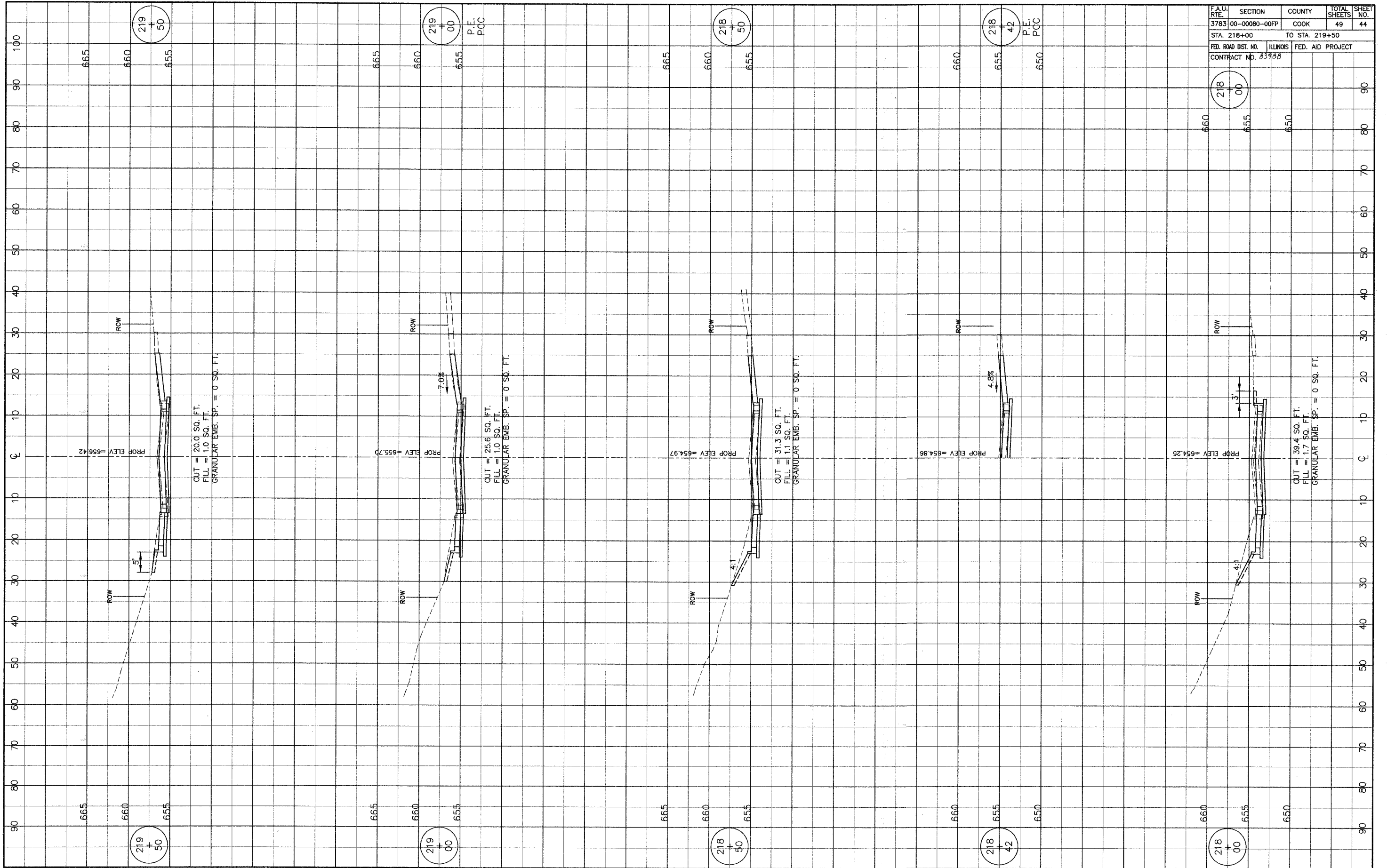
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	41
STA. 213+39		TO STA. 214+41		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 83956				

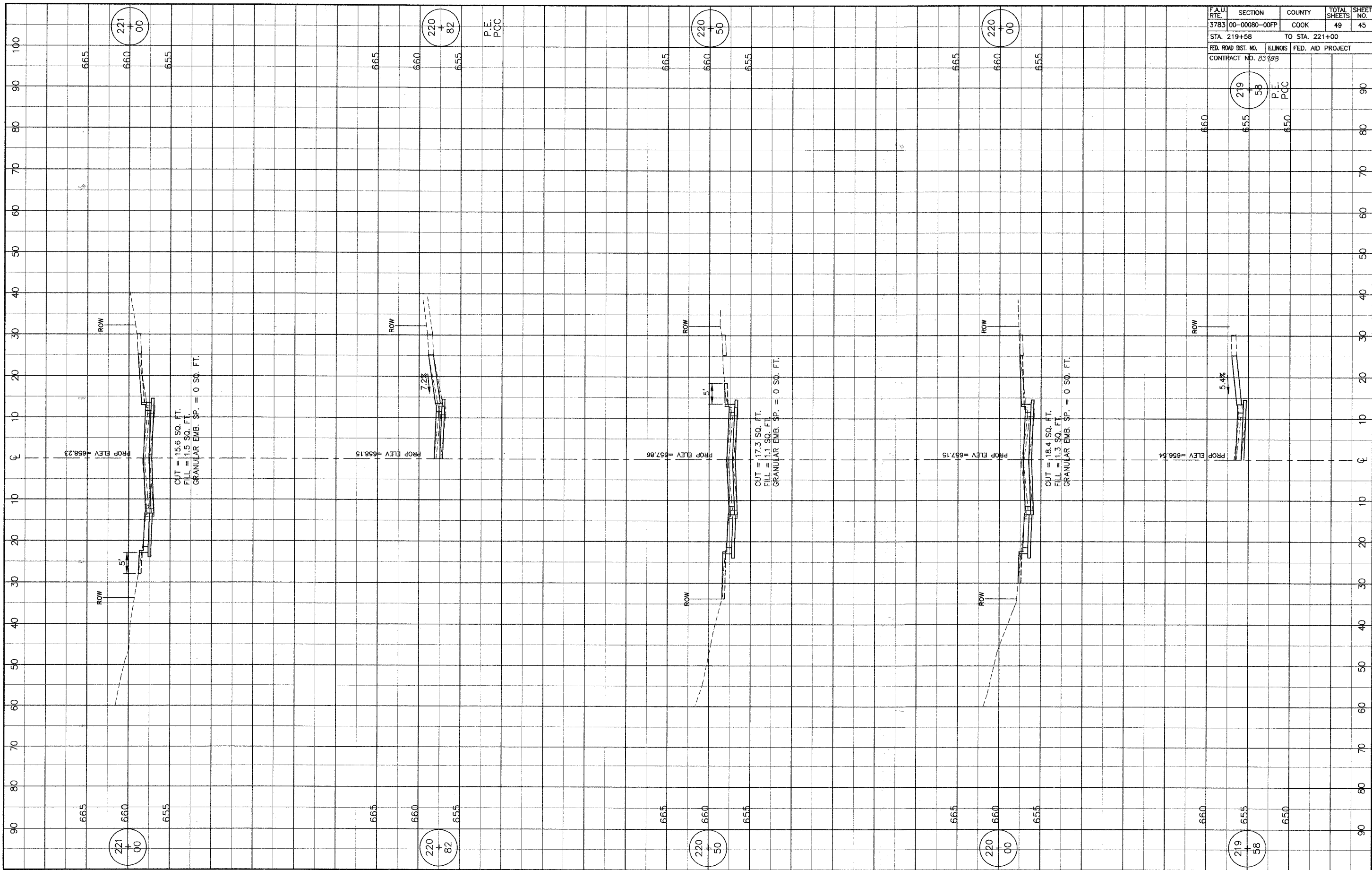


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	42
STA. 214+50		TO STA. 216+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 037958				



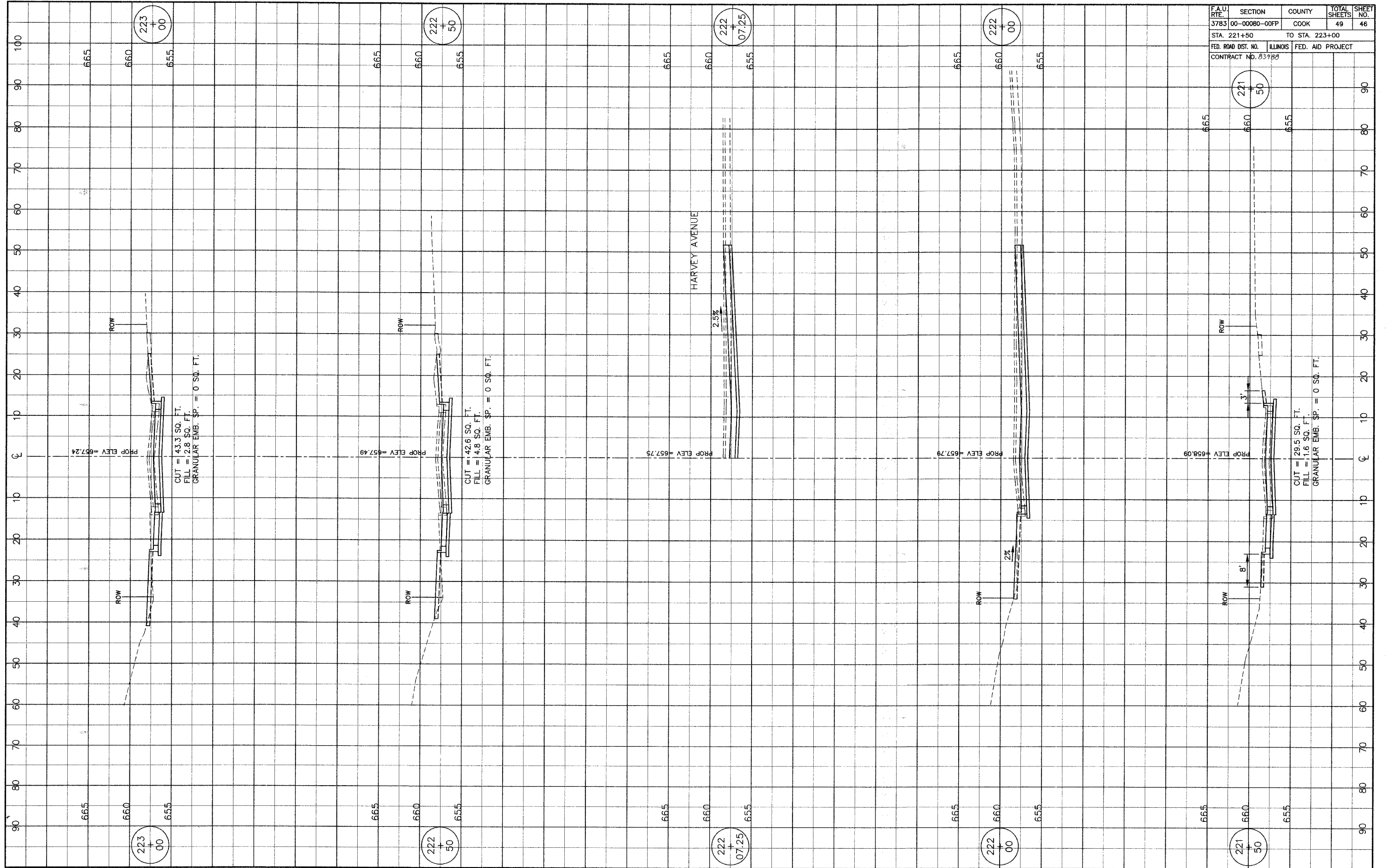
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	43
STA. 216+10		TO STA. 217+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83998				



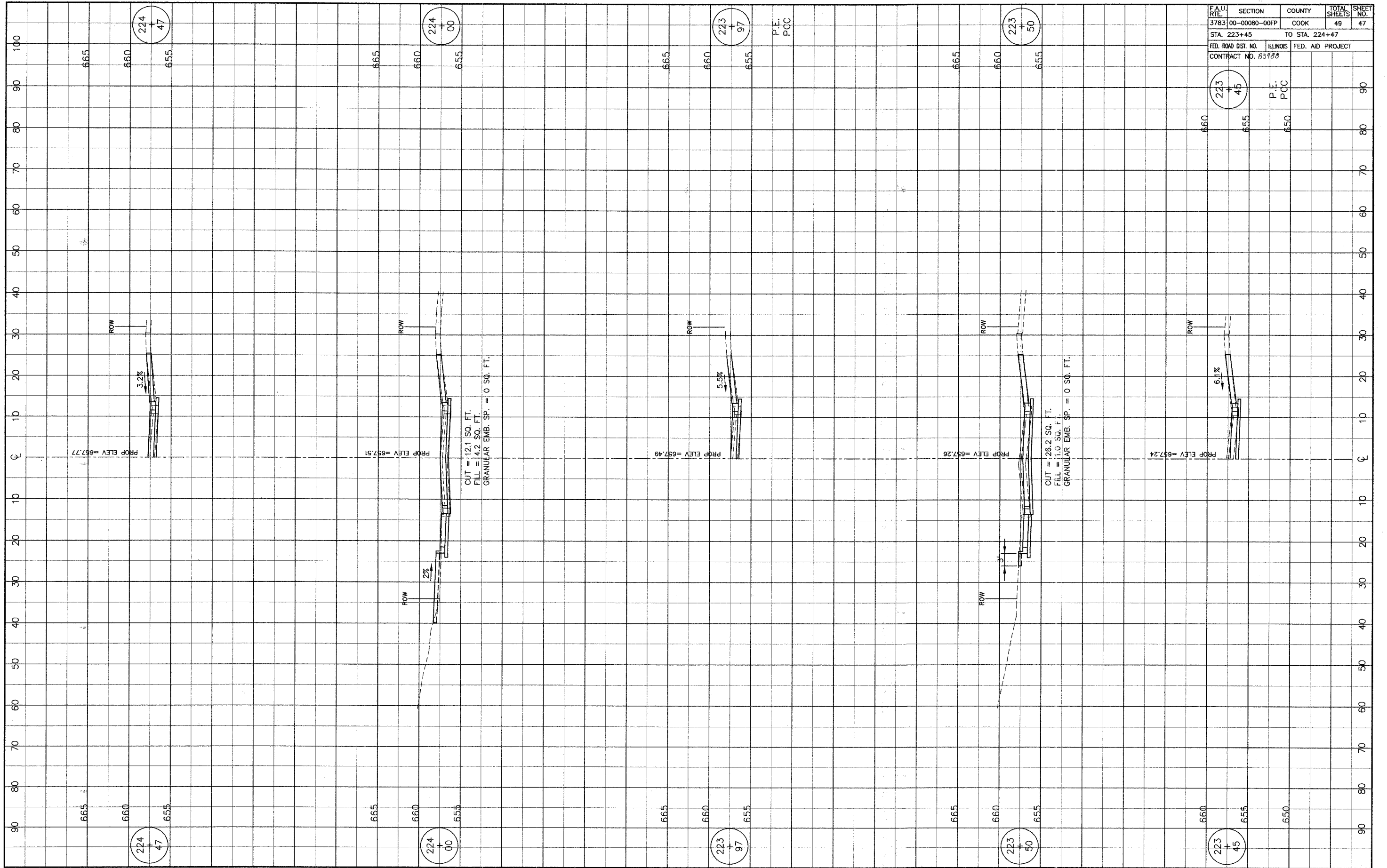


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	45
STA. 219+58		TO STA. 221+00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 83988				

219+58
 P.E.
 PCC



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	46
STA. 221+50		TO STA. 223+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 83782				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	47
STA. 223+45		TO STA. 224+47		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83998				

223+45
P.E.
P.O.C.

224+00

223+97

223+50

224+47

223+00

223+45

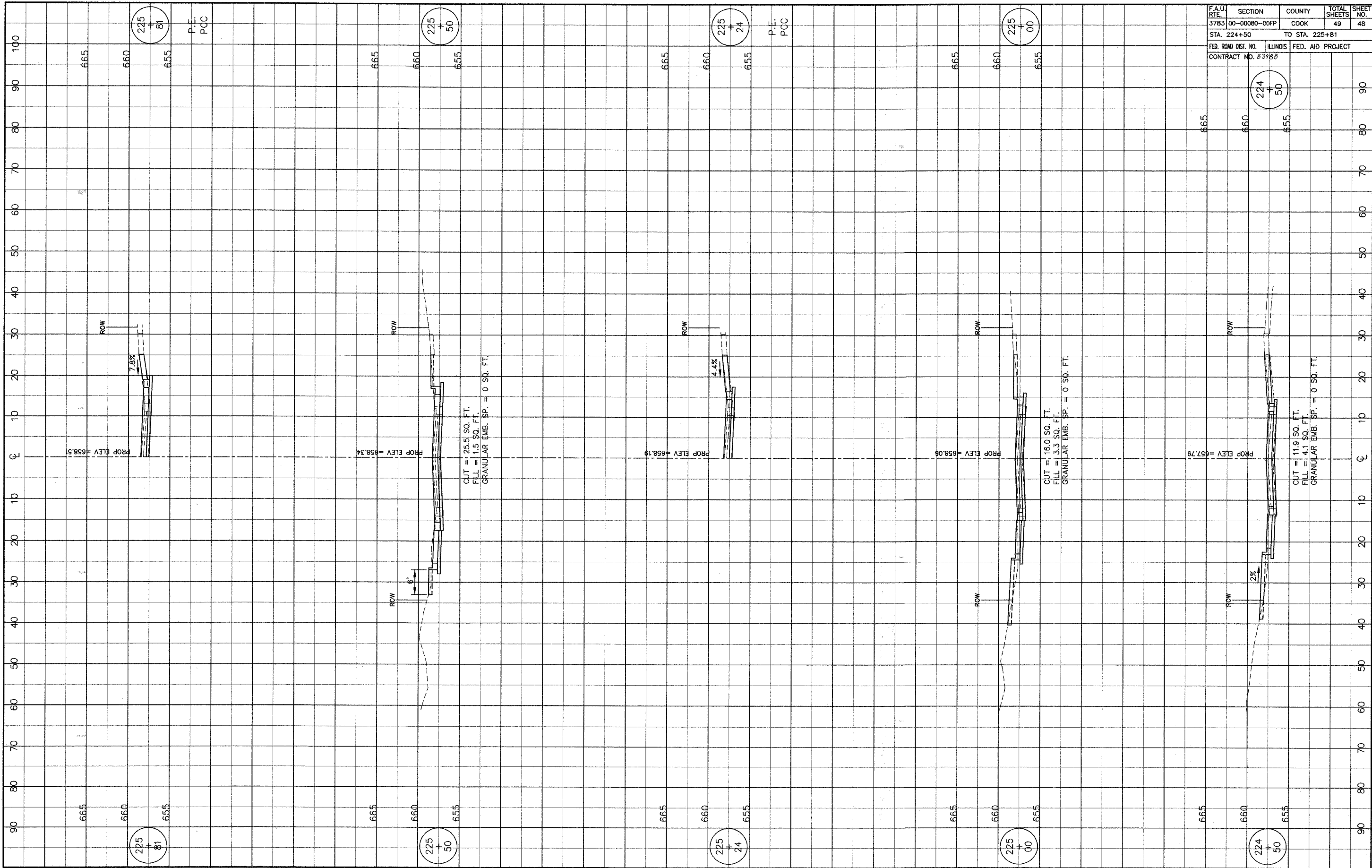
224+00

223+97

223+50

224+47

223+00

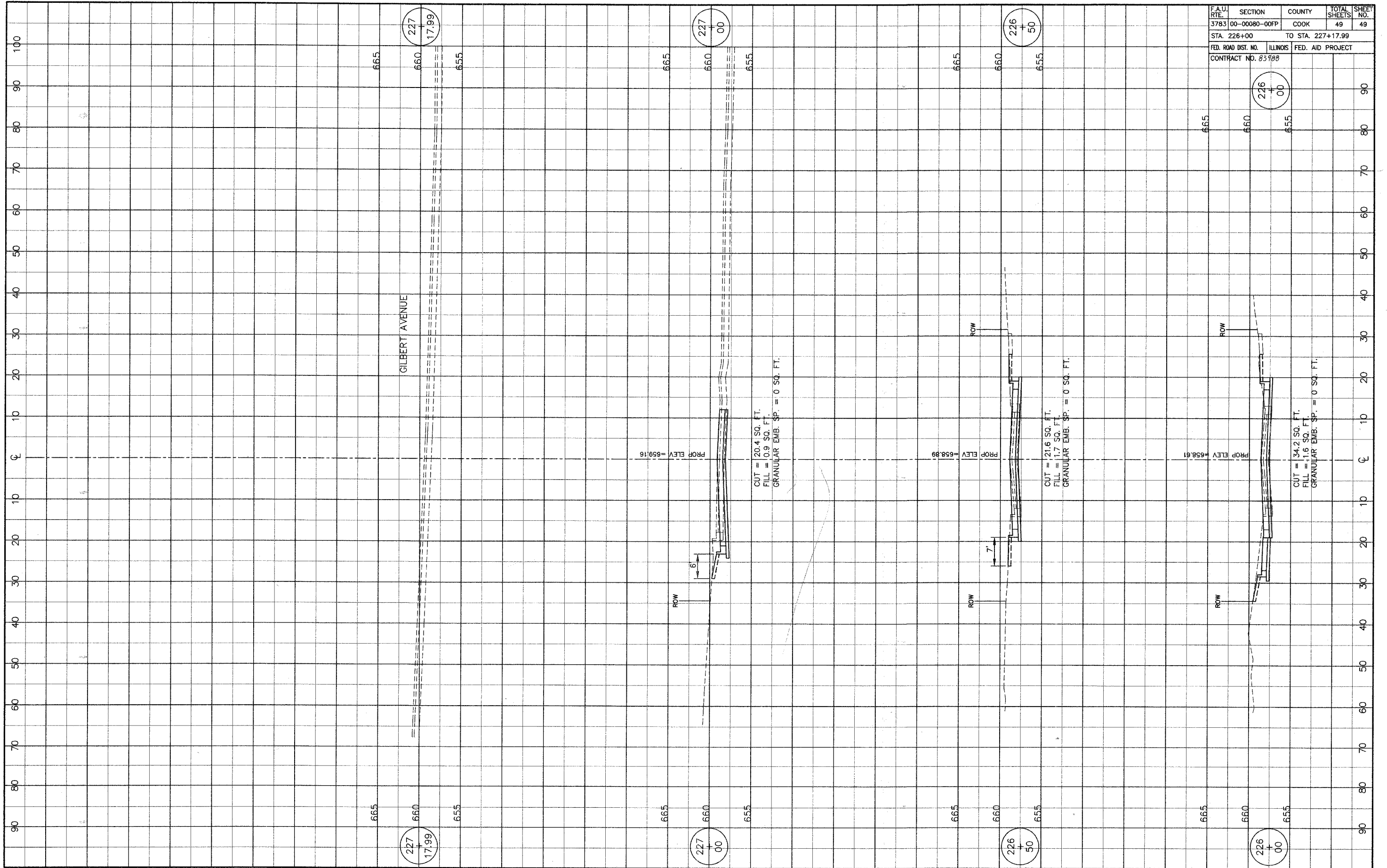


CUT = 25.5 SQ. FT.
 FILL = 1.5 SQ. FT.
 GRANULAR EMB. SP. = 0 SQ. FT.

CUT = 16.0 SQ. FT.
 FILL = 3.3 SQ. FT.
 GRANULAR EMB. SP. = 0 SQ. FT.

CUT = 11.9 SQ. FT.
 FILL = 4.1 SQ. FT.
 GRANULAR EMB. SP. = 0 SQ. FT.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	48
STA. 224+50		TO STA. 225+81		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 839766				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	00-00080-00FP	COOK	49	49
STA. 226+00		TO STA. 227+17.99		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 83998				