F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 83820

1-20-06 Letting, Item 101

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.P. ROUTE 870 (IL RTE 53)
SECTION: 04–00051–00–SW
FROM ROLLING DR. TO WARRENVILLE RD. (F.A.U. 1479)
SIDEWALK CONSTRUCTION AND TRAFFIC SIGNAL MODIFICATIONS
PROJECT: F–0870(005)
VILLAGE OF LISLE
DuPAGE COUNTY
C–91–194–04

TRAFFIC DATA

ADT:

IL RTE 53, ROLLING ROAD TO OGDEN AVE. = 29,800 (2002)

IL RTE 53, OGDEN AVE. TO WARRENVILLE RD. = 25,500 (2002)

SPEED LIMIT:

IL RTE 53 = 35 MPH

PROJECT LOCATED IN VILLAGE OF LISLE

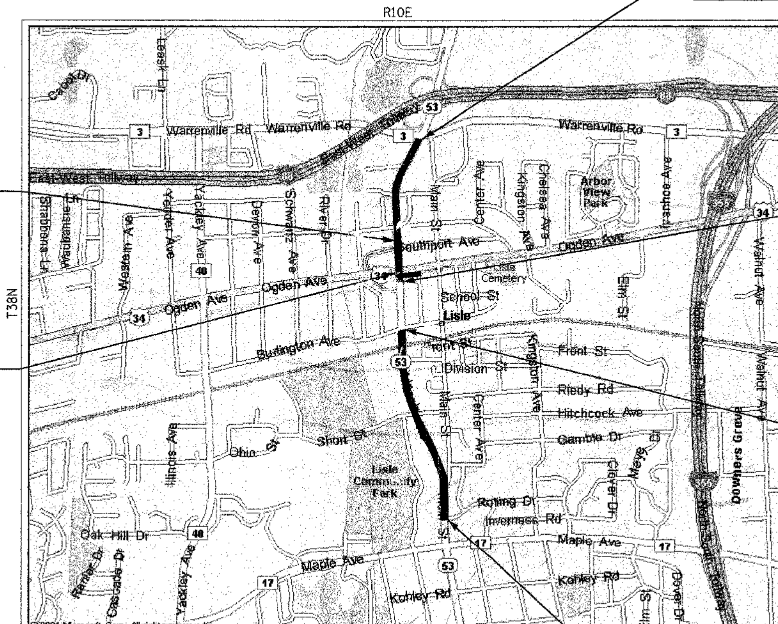
0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

FOR UTILITY INFORMATION, CONTACT J.U.L.I.E. (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1–800–892–0123

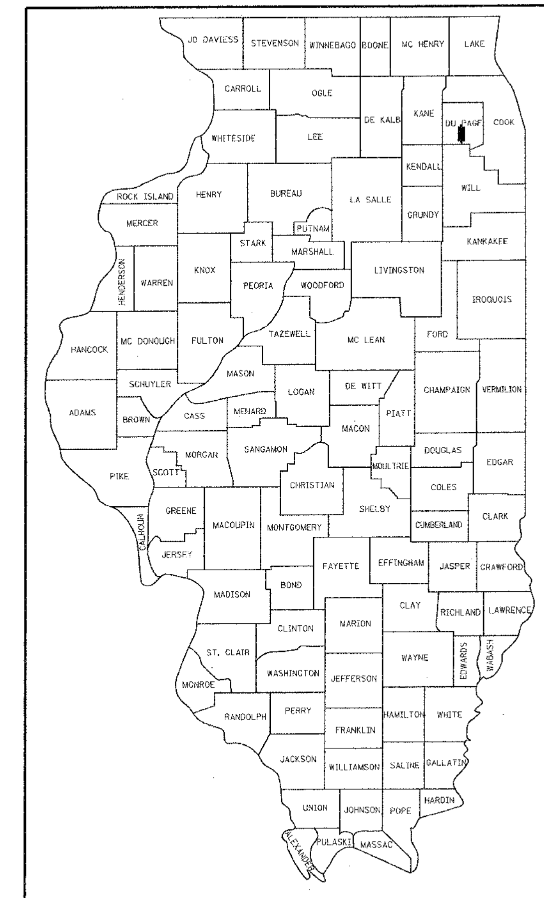
IDOT FEDERAL AID DESIGN ENGINEER: CHARLES RIDDLE, P.E. (847) 705–4406
CONSULTANT: JAMES J. BENES & ASSOCIATES, INC. (630) 719–7570

CONTRACT NO. 83820



LOCATION MAP
SCALE: NTS

GROSS LENGTH OF PROJECT: 7,630 FT. (1.45 MILES)
NET LENGTH OF PROJECT: 6,780 FT. (1.28 MILES)



LOCATION OF SECTION INDICATED THUS:–

VILLAGE OF LISLE

APPROVED Oct 21 2005

Ray L Peterson
PUBLIC WORKS DIRECTOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: November 3 2005

BUREAU CHIEF OF LOCAL ROAD AND STREETS

APPROVED: Nov. 3 2005

Diane M. O'Keefe /cnl
DEPUTY DIRECTOR OF HIGHWAYS, REGION 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

GARY L. COTTINGHAM 34438 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

SIGNATURE:
DATE: 10/24/05
IL. LICENSE NO: 062–034438
EXP. DATE: NOVEMBER 30, 2007
FIELD: JAMES J. BENES AND ASSOCIATES, INC. CIVIL ENGINEERING (SHEETS 1–46)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

INDEX OF SHEETS

LIST OF STATE STANDARDS

000001-04	STANDARDS SYMBOLS, ABBREVIATIONS & PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
424001-04	CURB RAMPS FOR SIDEWALKS
602301	INLET - TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-02	FRAME AND LIDS TYPE 1
604036-01	GRATE TYPE 8
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-02	PC CONCRETE ISLANDS AND MEDIANS
701501-03	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701602-02	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-04	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
878001-03	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS

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. (VILLAGE OF LISLE: (630) 271-4170)
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. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
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 ARE INCIDENTAL TO THE CONTRACT.
11. REMOVAL OF EXISTING HANDRAIL SHALL BE INCLUDED IN THE COST OF SIDEWALK REMOVAL.
12. BITUMINOUS SIDEWALK TO BE REMOVED SHALL BE INCLUDED IN THE COST OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

CONTROL POINTS

CONTROL POINT NO.	LOCATION STATION	LOCATION OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
IL RTE 53						
2	38+53.99	70.86' LT	1,868,999.0800	1,054,031.7800	663.45	CUT CROSS
3	28+43.58	75.53' LT	1,867,982.0200	1,054,099.2550	664.54	CUT CROSS
4	23+70.37	21.30' LT	1,867,508.5000	1,054,220.2700	666.44	CUT CROSS
5	14+78.09	67.60' RT	1,866,745.7800	1,054,699.8800	698.65	CUT CROSS
6	8+40.10	90.34' RT	1,866,117.5800	1,054,898.4600	703.65	CUT CROSS
7	4+25.94	74.71' LT	1,865,698.5100	1,054,816.0300	706.11	CUT CROSS
8	1+66.41	78.78' LT	1,865,439.7700	1,054,827.4200	703.77	CUT CROSS
9	48+16.40	14.65' RT	1,869,961.9400	1,054,056.2400	665.35	PK NAIL
10	51+87.09	59.22' LT	1,870,327.0900	1,053,959.4400	667.27	CUT CROSS
12	60+92.68	69.27' LT	1,871,232.7250	1,053,897.2000	670.23	PK NAIL
13	63+85.32	73.95' LT	1,871,534.7400	1,053,899.3100	671.52	CUT CROSS
14	73+93.06	109.11' LT	1,842,500.7500	1,054,248.6200	678.02	PK NAIL
17	49+62.90	125.44' RT	1,870,115.4600	1,054,157.6800	665.21	PK NAIL
396	33+11.49	26.02' RT	1,868,461.4900	1,054,158.7900	664.83	PK NAIL
TATE WOODS PARK						
21	-	-	1,872,107.6100	1,050,733.2500	722.74	PK NAIL
323	-	-	1,872,108.0800	1,050,838.4800	728.11	PK NAIL

BENCH MARKS

BM#1: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT THE NORTHEAST CORNER OF ROLLING DRIVE AND IL-53.
ELEVATION = 708.97

BM#2: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT STA. 8+60, 16' LT
ELEVATION = 699.56

BM#3: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT STA. 15+33, 17' LT
ELEVAITON = 690.22

BM#4: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT THE SOUTHEAST CORNER OF SHORT STREET AND IL-53.
ELEVATION = 666.16

BM#5: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT STA. 29+97, 33' RT
ELEVATION = 666.81

BM#6: N.E. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT THE NORTHWEST CORNER OF BURLINGTON AVE. AND IL-53.
ELEVATION = 663.51

BM#7: WEST FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT ON THE NORTH SIDE OF GARFIELD RD. NEAR ADDRESS #1207.
ELEVATION = 666.68

BM#8: CUT "□" IN NE CORNER OF IL-53 OVER ST. JOSEPH CREEK.
ELEVATION = 699.31

BM#9: S.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT THE NORTHEAST CORNER OF MIDDLETON AVE. AND IL-53.
ELEVATION = 670.27

BM#10: N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT STA. 68+65, 16' RT
ELEVAITON = 673.19

BM#11: S.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT THE SOUTHWEST CORNER OF WARRENVILLE RD. AND IL-53.
ELEVATION = 679.44

BM#12: S.E. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT ON THE NORTH SIDE OF PARKVIEW DR. NEAR ADDRESS #1824.
ELEVATION = 729.66

DRAWN ..... SMP .....
CHECKED ..... BDH .....

DATE ..... 9/21/05 .....
SCALE ..... N/A .....

JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 · Fax (630) 719-7589

The Arboretum Village

VILLAGE OF LISLE
IL ROUTE 53 SIDEWALK IMPROVEMENTS

REVISIONS		
NO.	DATE	DESCRIPTION

GENERAL NOTES, INDEX OF SHEETS, STATE STANDARDS, AND BENCH MARKS

DRAWING NO.
2 OF 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

SUMMARY OF QUANTITIES

	CODE NO.		UNIT	TOTAL QUANTITY	SIDEWALK IL ROUTE 53 SFTY-1B	TRAFFIC SIGNALS IL ROUTE 53 Y031-1F	SIDEWALK OGDEN AVENUE SFTY-1B	SIDEWALK OFF-SITE COMP. STORAGE SITE SFTY-1B
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	21	21			
	20101000	TEMPORARY FENCE	FOOT	902	902			
	20101200	TREE ROOT PRUNING	EACH	28	28			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,433	1,211		80	142
	20400800	FURNISHED EXCAVATION	CU YD	221	221			
	20800150	TRENCH BACKFILL	CU YD	6	6			
*	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	3.70	3.20		0.08	0.42
*	25200200	SUPPLEMENTAL WATERING	UNIT	344	326		18	
	28000400	PERIMETER EROSION BARRIER	FOOT	1,720	1,510			210
	28000510	INLET FILTERS	EACH	23	23			
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	675	675			
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	480	480			
	42001300	PROTECTIVE COAT	SQ YD	3,980	3,800		180	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	33,302	31,702		1,600	
	42400430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	705	705			
	42400800	DETECTABLE WARNINGS	SQ FT	550	550			
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	325	325			
	44000300	CURB REMOVAL	FOOT	30	30			
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	413	413			
	44000600	SIDEWALK REMOVAL	SQ FT	847	847			
	44003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ FT	320	320			
	51000105	PIPE HANDRAIL	FOOT	215	215			
	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	4	3		1	
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1			
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1			
	60251200	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	3	3			
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	4	3		1	
	60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1			
	60500060	REMOVING INLETS	EACH	1	1			
	60600605	CONCRETE CURB, TYPE B	FOOT	30	30			
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	140	140			
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	273	273			
	67100100	MOBILIZATION	L SUM	1	1			
	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1			
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,360	1,360			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	438	438			
	78300105	PAVEMENT MARKING REMOVAL	FOOT	38.67	38.67			

SUMMARY OF QUANTITIES

	CODE NO.		UNIT	TOTAL QUANTITY	SIDEWALK IL ROUTE 53 SFTY-1B	TRAFFIC SIGNALS IL ROUTE 53 Y031-1F	SIDEWALK OGDEN AVENUE SFTY-1B	SIDEWALK OFF-SITE COMP. STORAGE SITE SFTY-1B
*	81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	20		20		
*	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	45		45		
*	81400115	HANDHOLE TO BE ADJUSTED	EACH	11		11		
*	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	20		20		
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5		5		
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,933		1,933		
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,389		3,389		
*	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2		2		
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8		
*	87900200	DRILL EXISTING HANDHOLE	EACH	2		2		
*	88000160	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3		
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	10		10		
*	89502200	MODIFY EXISTING CONTROLLER	EACH	5		5		
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3		3		
	XX002010	MODULAR CONCRETE RETAINING WALL	SQ FT	2,306	2,034		272	
	XX004093	CONCRETE SLOPEWALL REMOVAL	SQ FT	515	515			
	XX004833	STABILIZED DRIVEWAYS SUPERPAVE 7"	SQ YD	265	265			
	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	23	23			
*	X8810610	PEDESTRIAN SIGNAL HEAD, L.E.D. 1-FACE, BRACKET MOUNTED	EACH	9		9		
*	X8810620	PEDESTRIAN SIGNAL HEAD, L.E.D. 2-FACE, BRACKET MOUNTED	EACH	4		4		
	XX006429	SIDEWALK, SPECIAL	SQ FT	675	675			
	XX006430	CLASS D PATCHES SUPERPAVE, TYPE 1 2 INCH	SQ YD	50	50			
	XX006431	STORM SEWERS, PVC 12"	FOOT	25	25			
	Z0017400	DRAINAGE AND UTILITY STRUCTURE TO BE ADJUSTED	EACH	19	18		1	
	X0322671	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	8	8			

* - DENOTES SPECIALTY ITEMS

DRAWN . . . . . SMP . . . . . DATE. . 9/21/05 . .

CHECKED. . . . . BDH . . . . . SCALE. . . N/A . . .

JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
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The Arboretum Village

VILLAGE OF LISLE
IL ROUTE 53 SIDEWALK IMPROVEMENTS

REVISIONS		
NO.	DATE:	DESCRIPTION

SUMMARY OF QUANTITIES

DRAWING NO. 3 . . . . . OF 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

TREE REMOVAL (6 TO 15 UNIT DIA)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
IL-53		
12+18	10' LT	9
18+15	12' LT	12
TOTAL QUANTITY =		21

MANHOLES TO BE RECONSTRUCTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
33+85	12' RT	1
49+81	18' RT	1
62+46	7' RT	1
OGDEN AVE.		
102+80	10' RT	1
TOTAL QUANTITY =		4

MANHOLE TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
1+76	28' RT	1
TOTAL QUANTITY =		1

CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
33+65	18' RT	1
60+35	14' RT	1
61+35	14' RT	1
TOTAL QUANTITY =		3

DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
8+26	6' LT	1
9+22	2' LT	1
10+70	5' LT	1
12+28	5' LT	1
14+26	3' LT	1
16+20	4' LT	1
18+27	6' LT	1
20+11	7' LT	1
21+52	1' LT	1
27+57	11' RT	1
29+08	17' RT	1
30+00	14' RT	1
33+05	12' RT	1
52+15	3' RT	1
53+97	5' RT	1
68+48	20' RT	1
69+43	13' RT	1
70+91	7' RT	1
OGDEN AVE.		
103+17	20' RT	1
TOTAL QUANTITY =		19

REMOVING INLETS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
37+30	10' RT	1
TOTAL QUANTITY =		1

FIRE HYDRANTS TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
8+60	13' LT	1
17+60	8' LT	1
68+67	15' RT	1
OGDEN AVE.		
103+16	12' RT	1
TOTAL QUANTITY =		4

HANDHOLES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
IL-53		
3+35	1' RT	1
5+81	1' RT	1
22+34	2' RT	1
51+49	1' RT	1
53+99	10' RT	1
65+80	17' RT	1
71+80	1' RT	1
73+29	1' RT	1
75+42	102' LT	1
76+00	14' RT	1
77+10	4' RT	1
TOTAL QUANTITY =		11

EARTHWORK		
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.* (CU YD)	FURNISHED EXCAVATION** (CU YD)
IL-53: ROLLING RD. (1+70) TO OMISSION (39+00)	732	143
IL-53: OMISSION(47+50) TO WARRENVILLE RD.(78+00)	479	78
OGDEN AVENUE	80	0
OFF-SITE COMP. STORAGE SITE	142	0
TOTAL QUANTITY =	1,433	221

*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 ON SITE EXCAVATED MATERIAL MUST BE HAULED OFF SITE.

DRAWN . . . . . SMP . . . . . .
CHECKED. . . . . BDH . . . . . .

DATE. . 9/21/05 . .
SCALE. . . N/A . . .

JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 · Fax (630) 719-7589

The Arboretum Village

VILLAGE OF LISLE
IL ROUTE 53 SIDEWALK IMPROVEMENTS

REVISIONS		
NO.	DATE	DESCRIPTION

SCHEDULE OF QUANTITIES

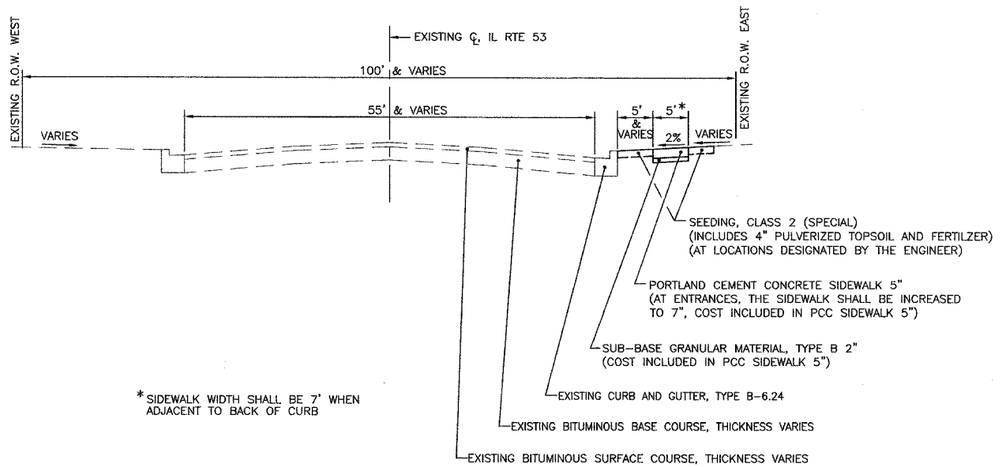
DRAWING NO.
4 . . . . . OF 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

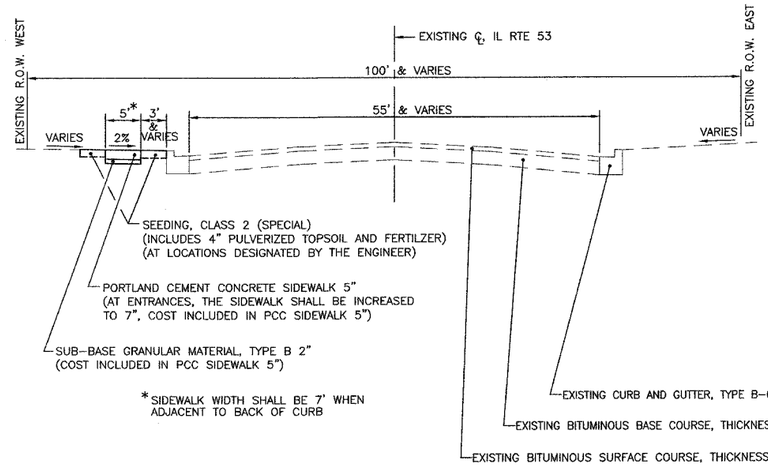
BITUMINOUS MIXTURE REQUIREMENTS			
PAY ITEM	AC TYPE	VOIDS	MAX RAP %
STABILIZED DRIVEWAYS, SUPERPAVE, 7":			
BIT CONC SURFACE COURSE, SUPERPAVE, MIX C, N50	PG 64-22	4% @ 50 Gyr.	15
BIT CONC BASE COURSE, SUPERPAVE	PG 58-22	2% @ 50 Gyr.	50
CLASS D PATCHES, 2":			
BIT CONC SURFACE COURSE SUPERPAVE, MIX D, N 70	PG 64-22	4% @ 70 Gyr.	15

* THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN



PROPOSED TYPICAL CROSS SECTION-IL RTE 53

STA. 1+50 (ROLLING DRIVE) TO STA. 8+30 (MAIN STREET)
STA. 23+00 (SHORT STREET) TO STA. 39+00 (OMISSION)
STA. 47+50 (OMISSION) TO STA. 78+00 (WARRENVILLE ROAD)



PROPOSED TYPICAL CROSS SECTION-IL RTE 53

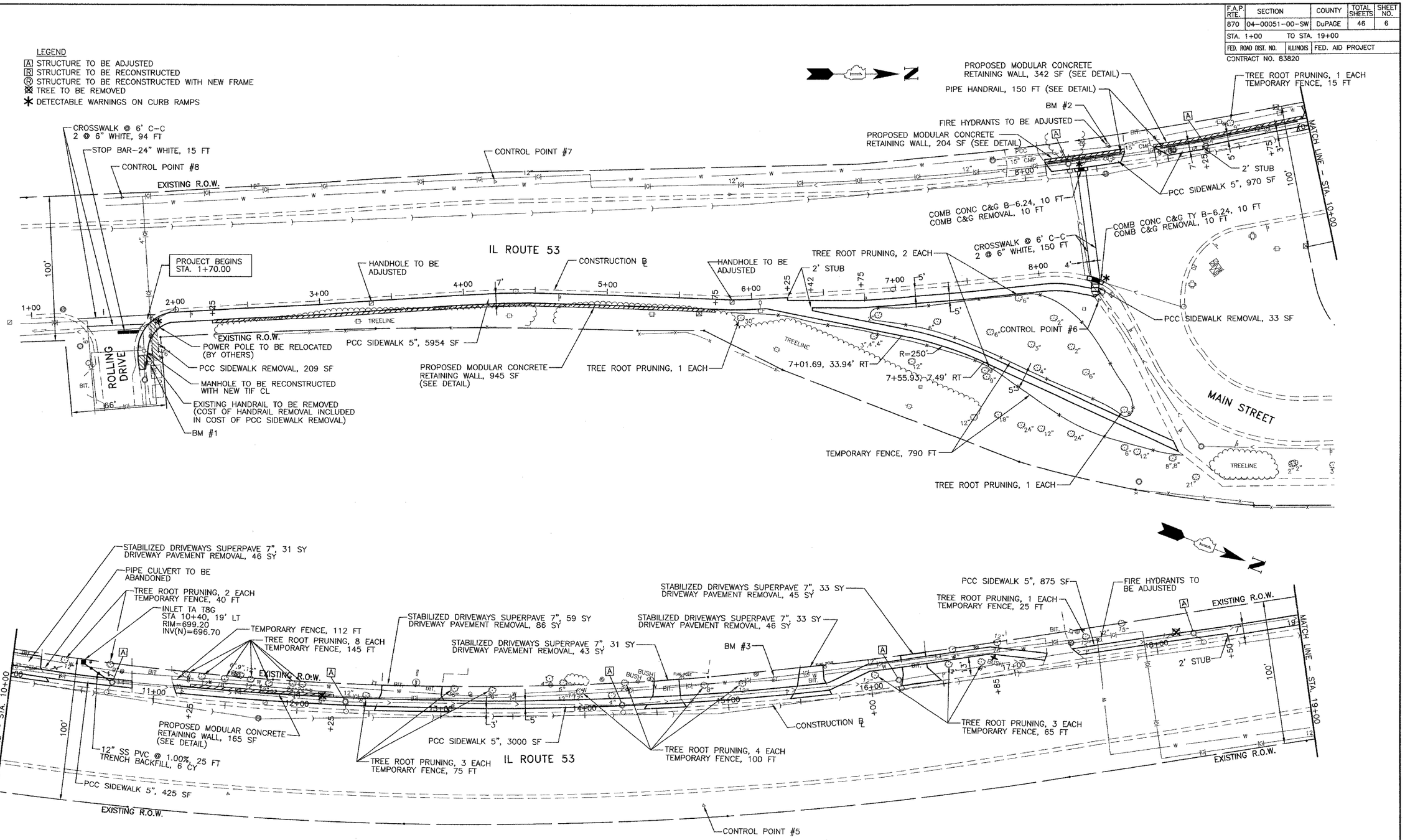
STA. 8+30 (MAIN STREET) TO STA. 23+00 (SHORT STREET)

DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. / DATE / DESCRIPTION	TYPICAL SECTIONS	DRAWING NO. 5 OF 46
CHECKED BDH	SCALE NTS		The Arboretum Village			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	6
STA. 1+00	TO STA. 19+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

LEGEND
- [A] STRUCTURE TO BE ADJUSTED
- [R] STRUCTURE TO BE RECONSTRUCTED
- [R] STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME
- [X] TREE TO BE REMOVED
- * DETECTABLE WARNINGS ON CURB RAMPS

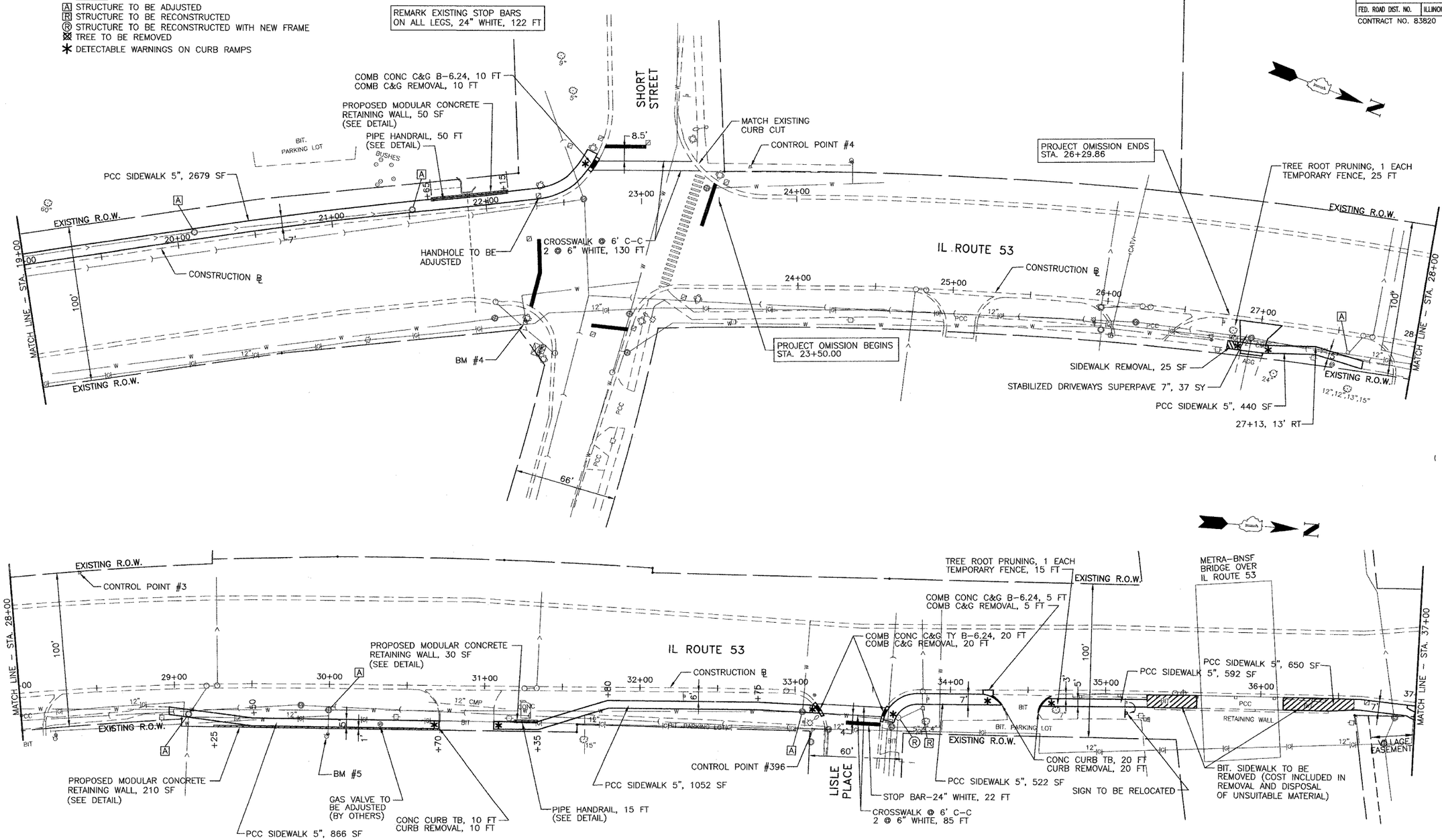


DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC.	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS (NO. / DATE / DESCRIPTION)	GEOMETRIC PLAN
CHECKED BDH	SCALE 1"=30'	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	The Arboretum Village		DRAWING NO. 6 OF 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	7
STA. 19+00	TO STA. 37+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

LEGEND
- [A] STRUCTURE TO BE ADJUSTED
- [R] STRUCTURE TO BE RECONSTRUCTED
- Ⓡ STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME
- ⊠ TREE TO BE REMOVED
- ✱ DETECTABLE WARNINGS ON CURB RAMPS

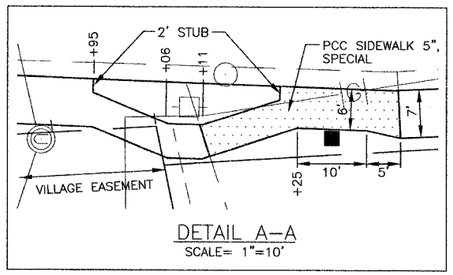


DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS: NO. / DATE / DESCRIPTION	GEOMETRIC PLAN
CHECKED BDH	SCALE 1"=30'	The Arboretum Village			DRAWING NO. 7 OF 46

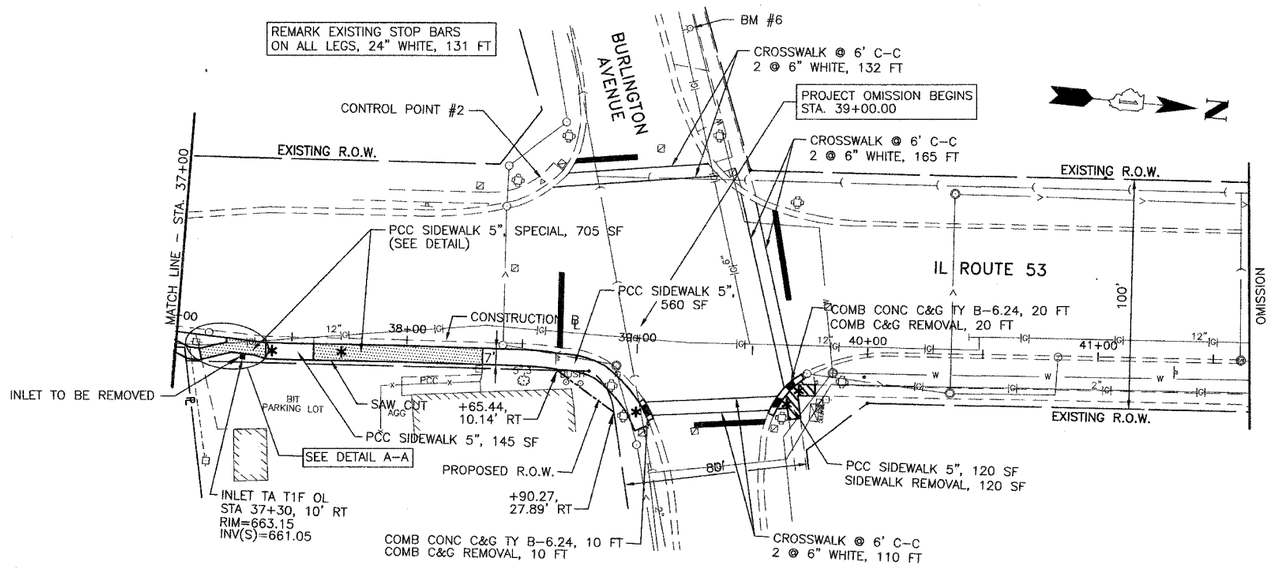
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	8
STA. 37+00	TO STA. 50+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

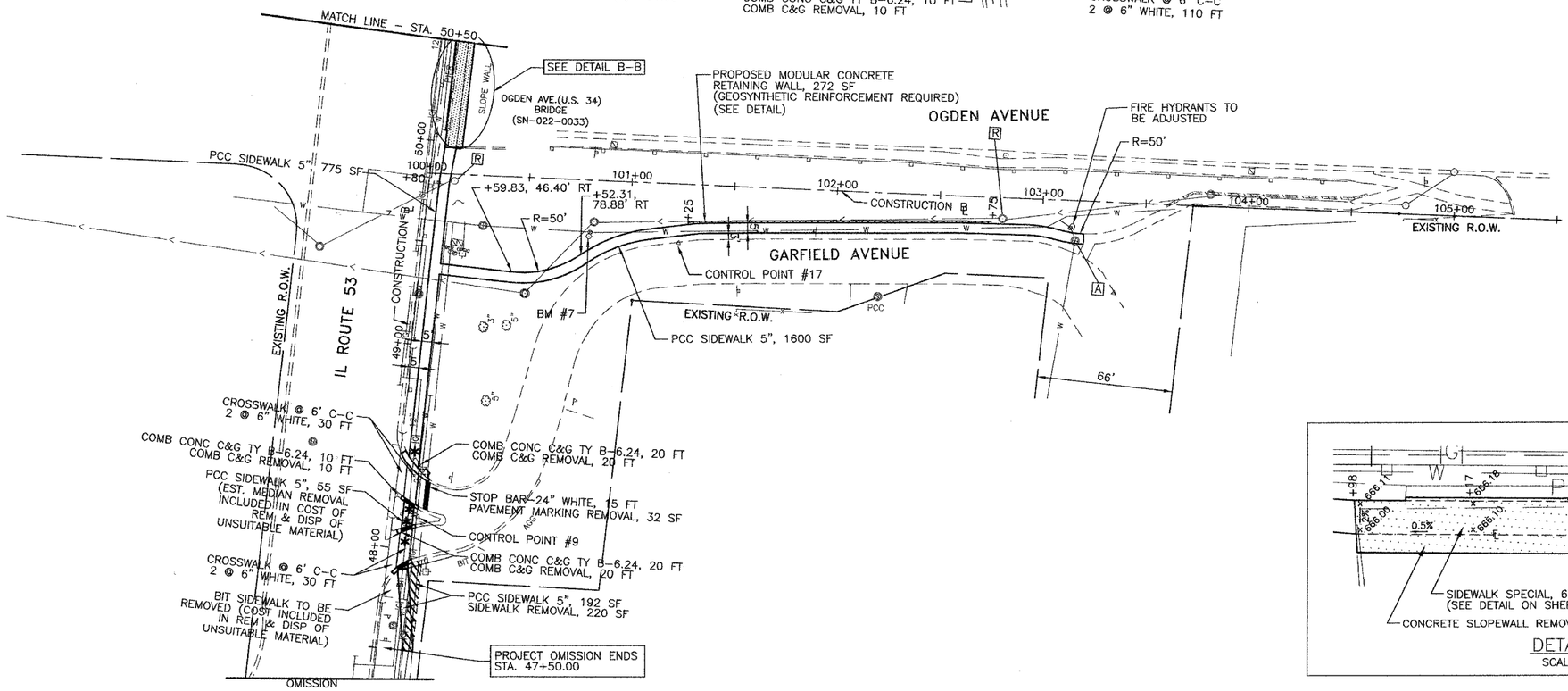
CONTRACT NO. 83820

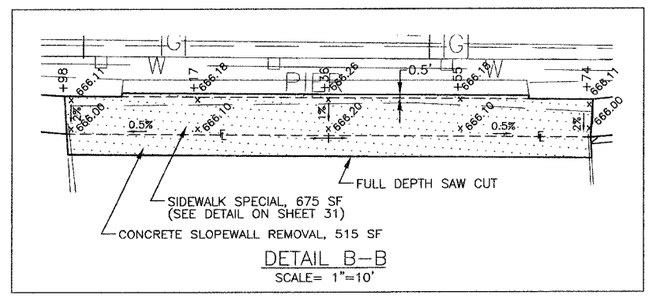
LEGEND
- [A] STRUCTURE TO BE ADJUSTED
- [R] STRUCTURE TO BE RECONSTRUCTED
- [Ⓡ] STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME
- [⊠] TREE TO BE REMOVED
- ✱ DETECTABLE WARNINGS ON CURB RAMPS



DETAIL A–A
SCALE= 1"=10'







DETAIL B–B
SCALE= 1"=10'

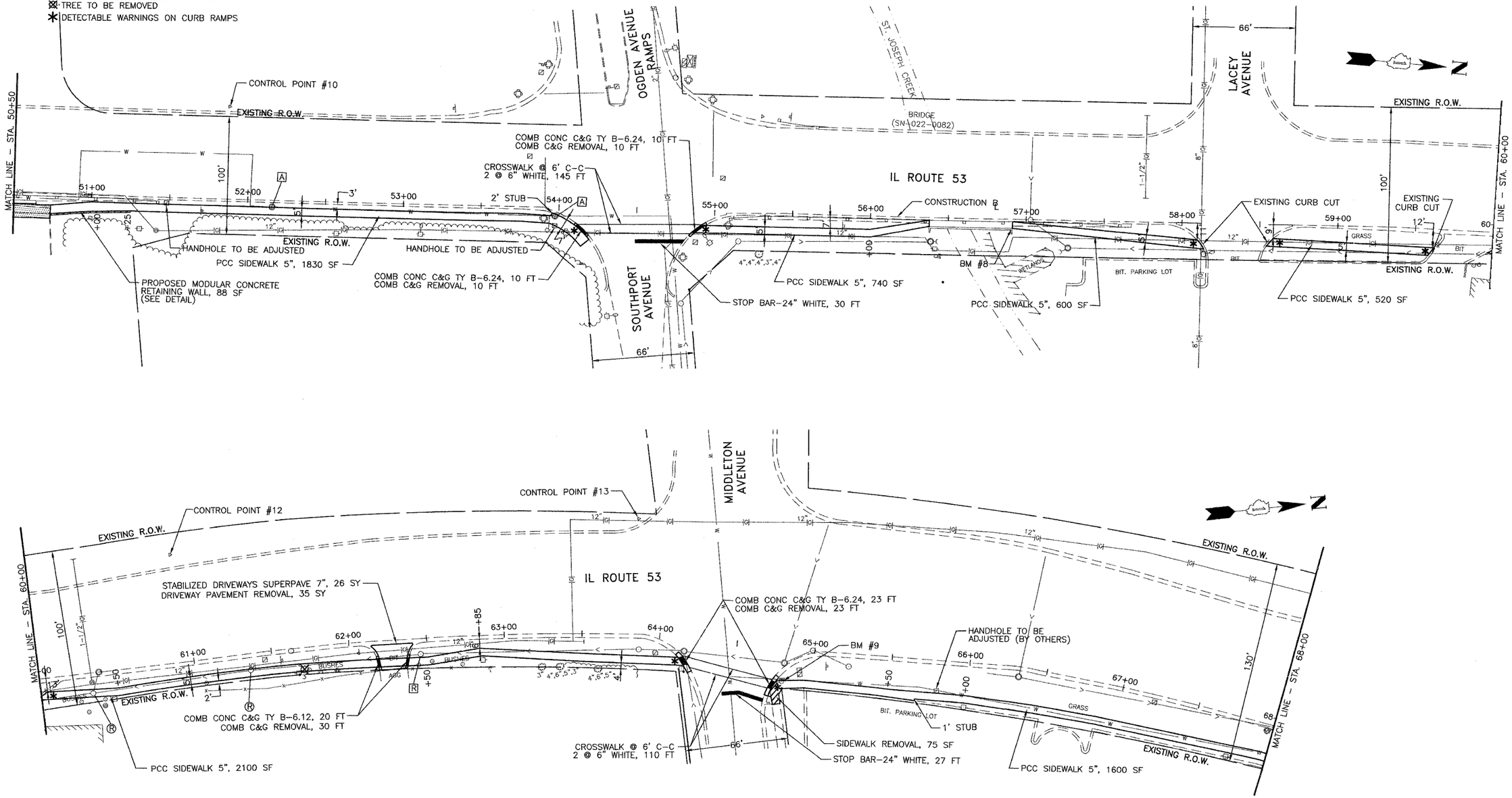
N

DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. / DATE / DESCRIPTION	GEOMETRIC PLAN	DRAWING NO. 8 OF 46
CHECKED BDH	SCALE 1"=30'					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	9
STA. 50+50	TO STA. 68+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

LEGEND
- [A] STRUCTURE TO BE ADJUSTED
- [R] STRUCTURE TO BE RECONSTRUCTED
- Ⓡ STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME
- ⊗ TREE TO BE REMOVED
- ✱ DETECTABLE WARNINGS ON CURB RAMPS

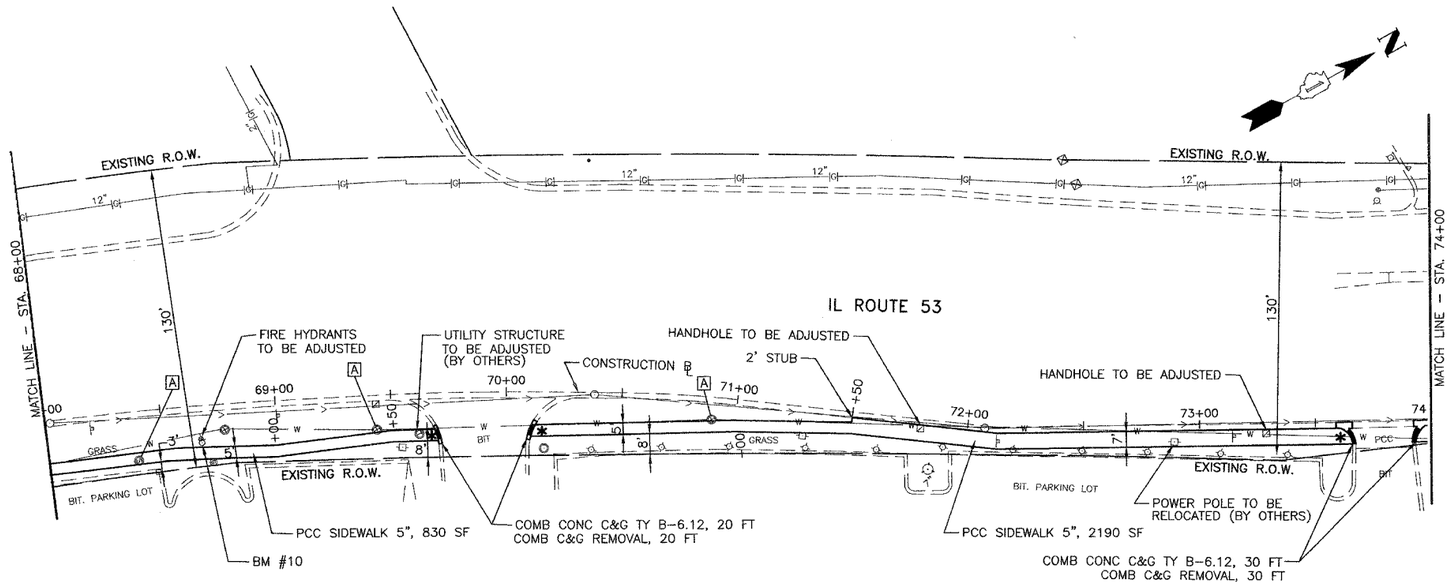


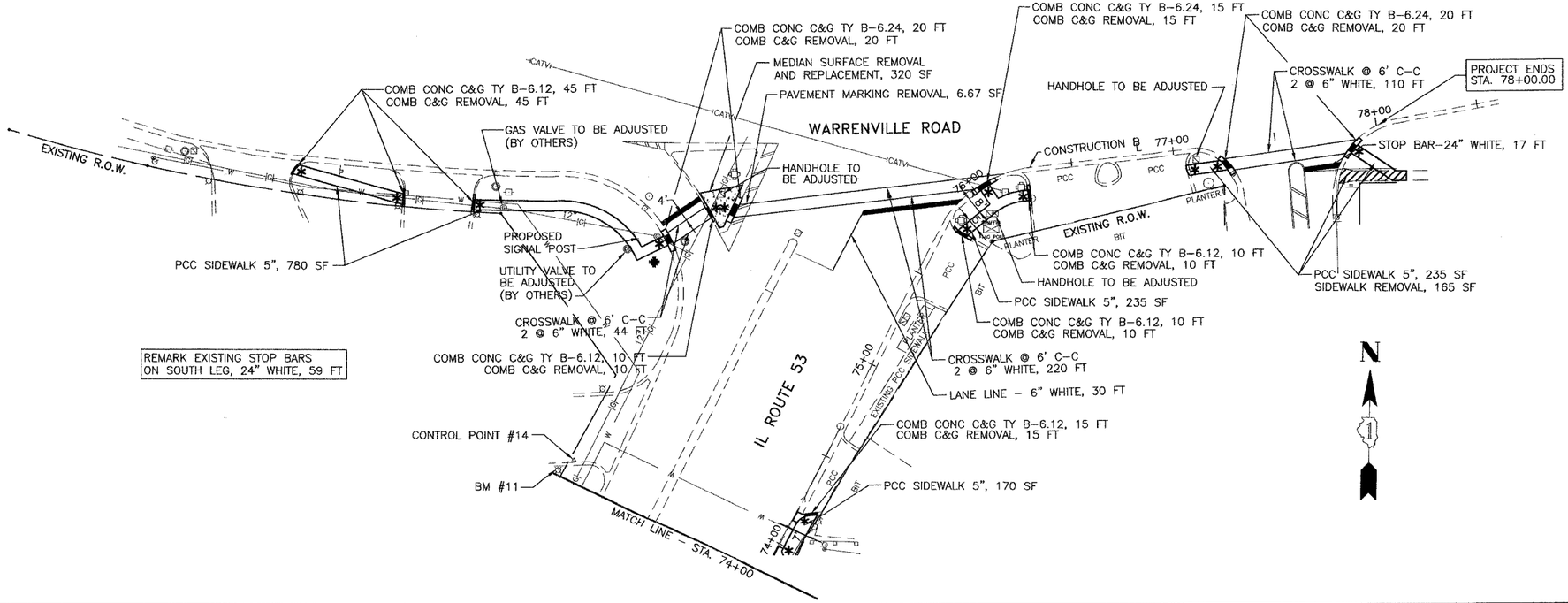
DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS: NO. / DATE / DESCRIPTION	GEOMETRIC PLAN	DRAWING NO. 9 OF 46
CHECKED BDH	SCALE 1"=30'					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	10
STA. 68+00	TO STA. 76+25			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

LEGEND
- [A] STRUCTURE TO BE ADJUSTED
- [R] STRUCTURE TO BE RECONSTRUCTED
- [R] STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME
- ⊠ TREE TO BE REMOVED
- ✱ DETECTABLE WARNINGS ON CURB RAMPS





DRAWN	SMP	DATE	9/21/05
CHECKED	BDH	SCALE	1"=30'

JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 · Fax (630) 719-7589

The Arboretum Village

VILLAGE OF LISLE
IL ROUTE 53 SIDEWALK IMPROVEMENTS

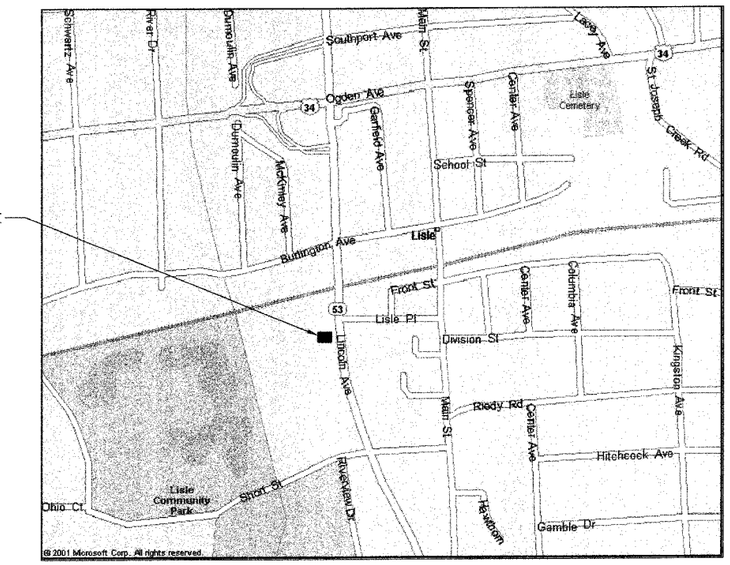
REVISIONS		
NO.	DATE	DESCRIPTION

GEOMETRIC PLAN

DRAWING NO. 10 OF 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820



COMPENSATORY STORAGE SITE
LOCATION MAP

NOTE:

1) CONSTRUCTION ACTIVITIES SHALL BE LIMITED BETWEEN 8:00AM TO 4:00PM FOR ALL WORK ASSOCIATED THE COMPENSATORY STORAGE SITE.

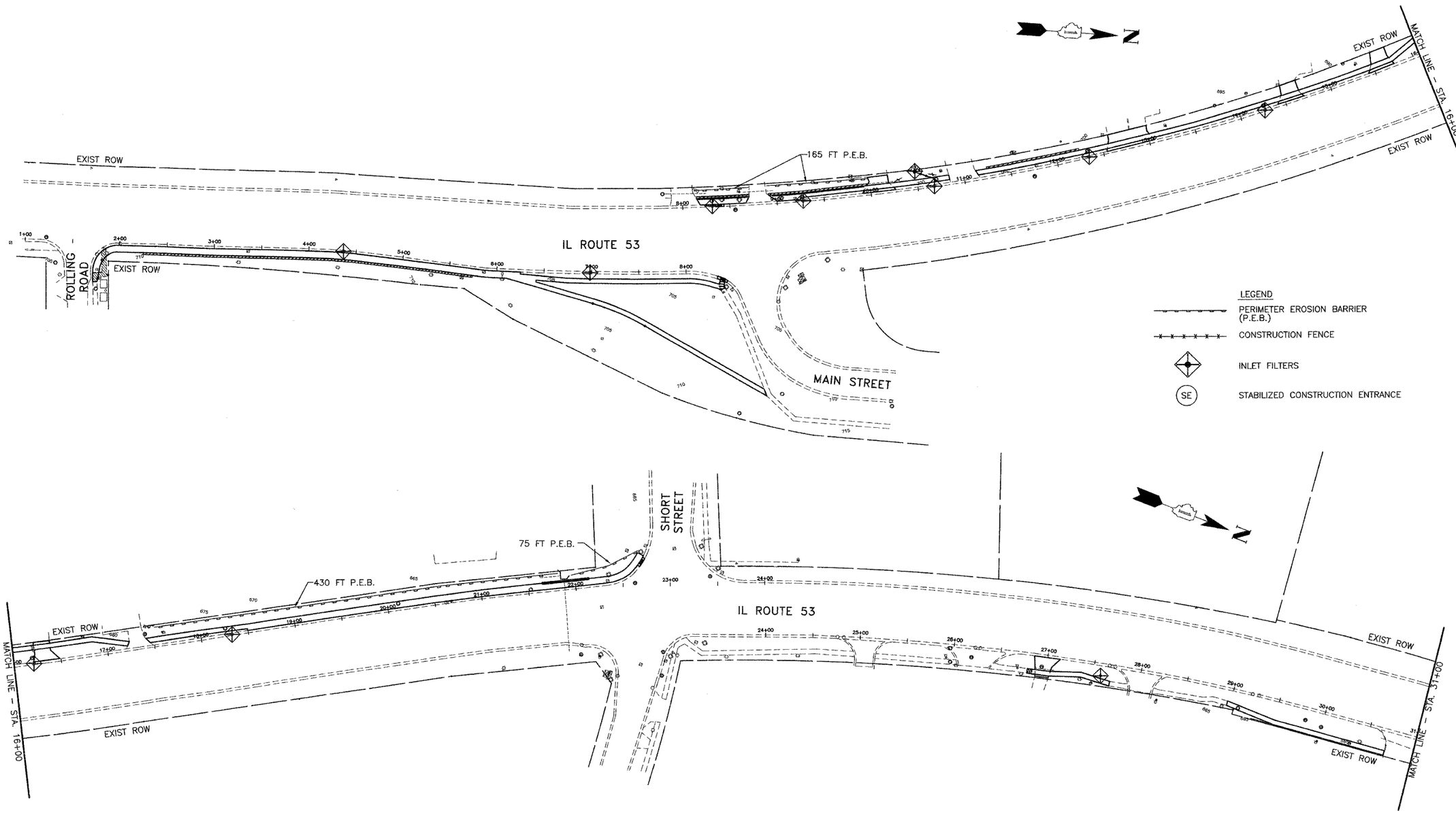
2) ACCESS TO THE COMPENSATORY STORAGE SITE SHALL BE OFF THE VILLAGE OF LISLE'S PUBLIC WORKS STORAGE YARD, WHICH IS ADJACENT TO THE PROJECT SITE.

DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	GRADING PLAN COMPENSATORY STORAGE SITE
CHECKED BDH	SCALE 1"=20'		The Arboretum Village	DRAWING NO. 11 OF 46

REVISIONS		
NO.	DATE	DESCRIPTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	12
STA. 1+00	TO STA. 31+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

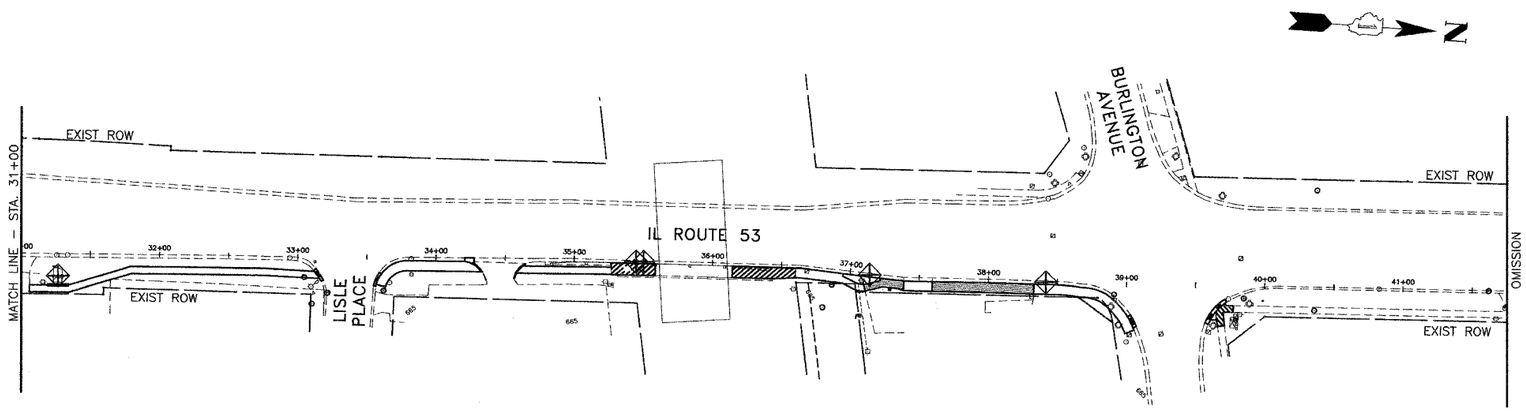
CONTRACT NO. 83820

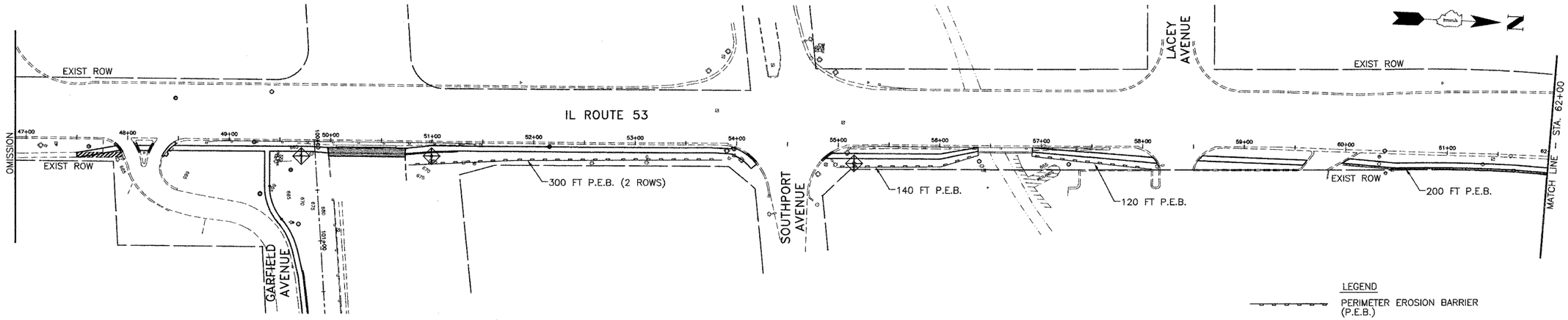


DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. / DATE / DESCRIPTION	STORMWATER POLLUTION PREVENTION PLAN	DRAWING NO. 12 OF 46
CHECKED BDH	SCALE 1"=50'					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	13
STA. 31+00	TO STA. 62+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820





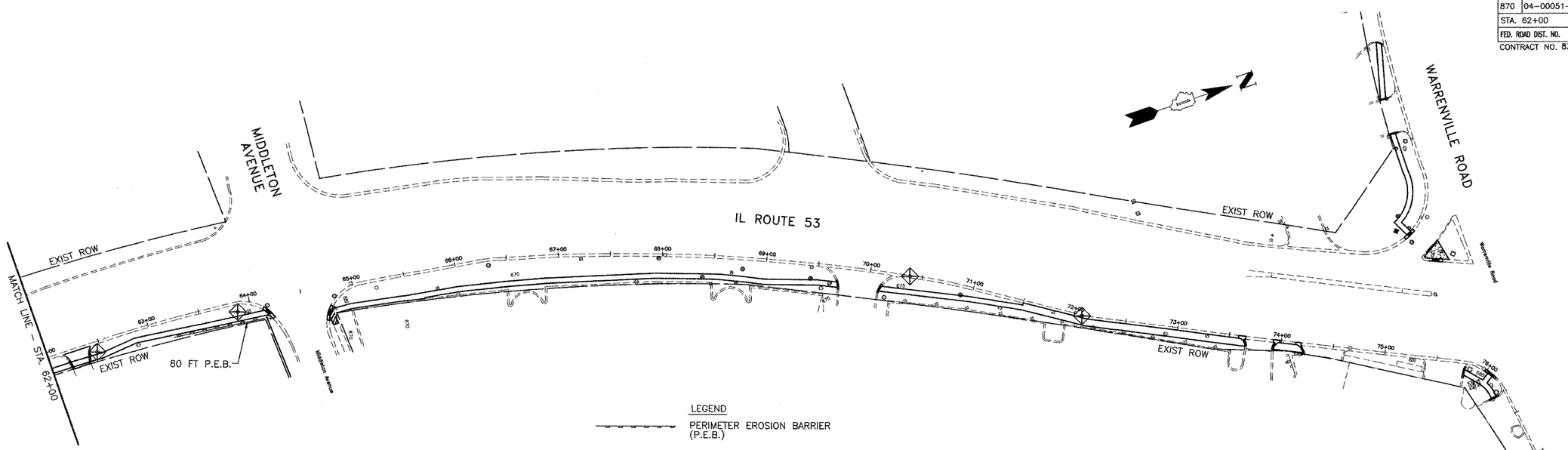
LEGEND

- PERIMETER EROSION BARRIER (P.E.B.)
- CONSTRUCTION FENCE
- INLET FILTERS
- (SE) STABILIZED CONSTRUCTION ENTRANCE

DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. / DATE / DESCRIPTION	STORMWATER POLLUTION PREVENTION PLAN	DRAWING NO. 13 OF 46
CHECKED BDH	SCALE 1"=30'		The Arboretum Village			

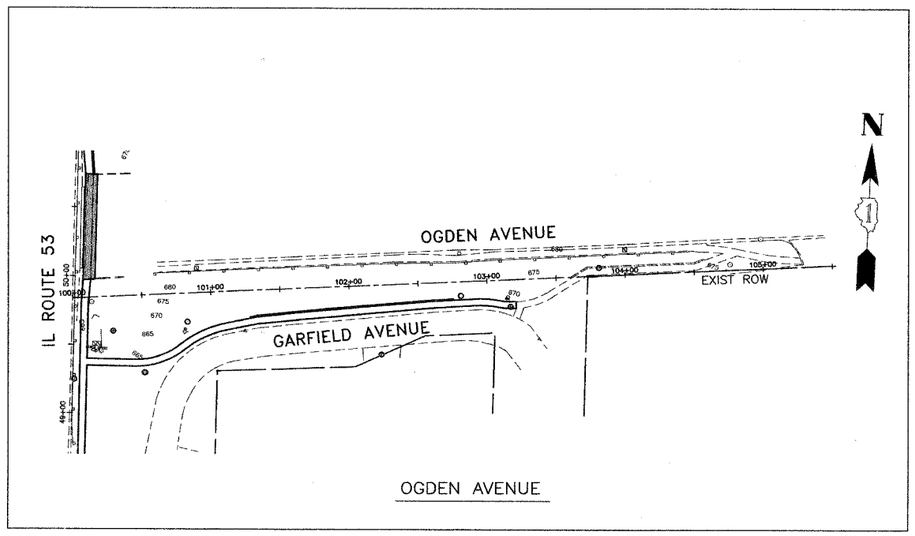
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	14
STA. 62+00	TO STA. 76+25			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

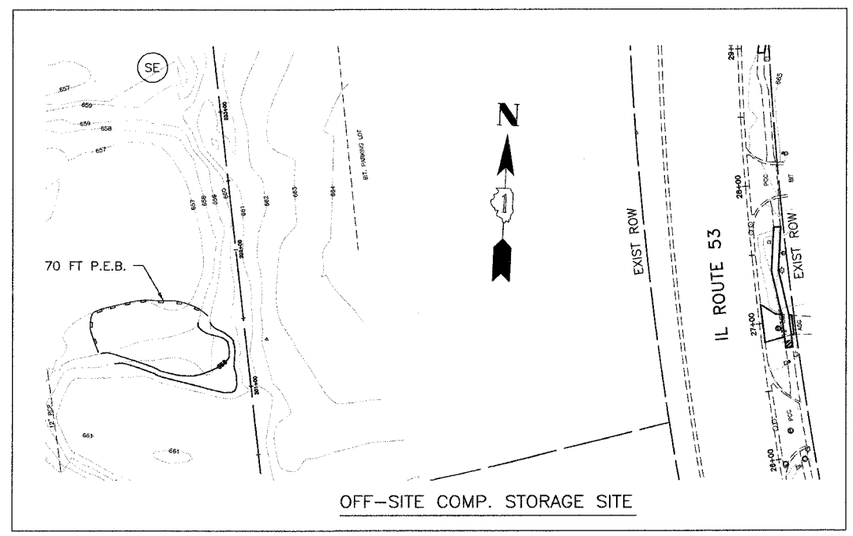
CONTRACT NO. 83820



LEGEND

- PERIMETER EROSION BARRIER (P.E.B.)
- CONSTRUCTION FENCE
- INLET FILTERS
- (SE) STABILIZED CONSTRUCTION ENTRANCE





DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. / DATE / DESCRIPTION	STORMWATER POLLUTION PREVENTION PLAN	DRAWING NO. 14 OF 46
CHECKED BDH	SCALE 1"=30'		The Arboretum Village			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				

LOOP DETECTOR NOTES

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

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

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

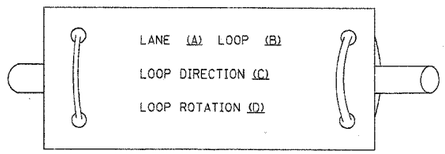
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

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

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

LOOP LEAD-IN CABLE TAG

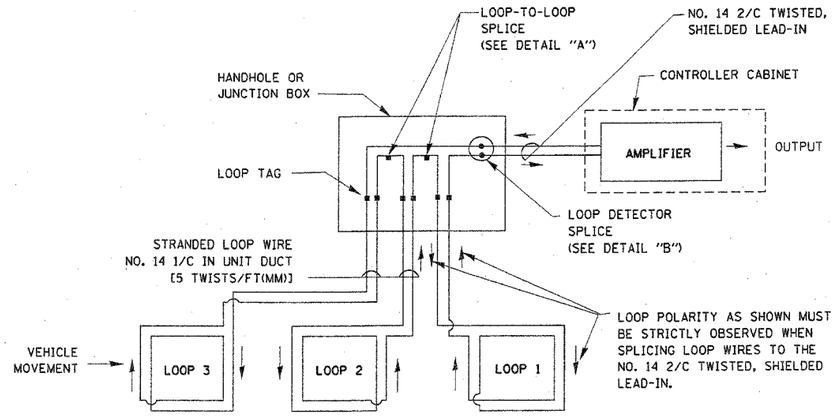


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

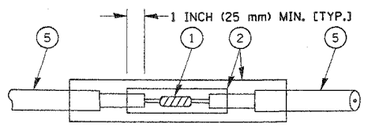
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

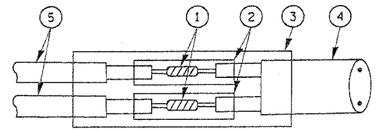


DETECTOR LOOP WIRING SCHEMATIC

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



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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

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

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

$FILE$
Tue Mar 12 13:21:29 2002
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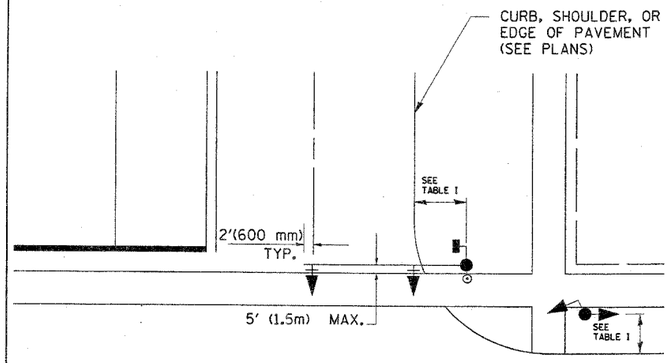
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
670	04-00051-00-SW	DuPAGE	46	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

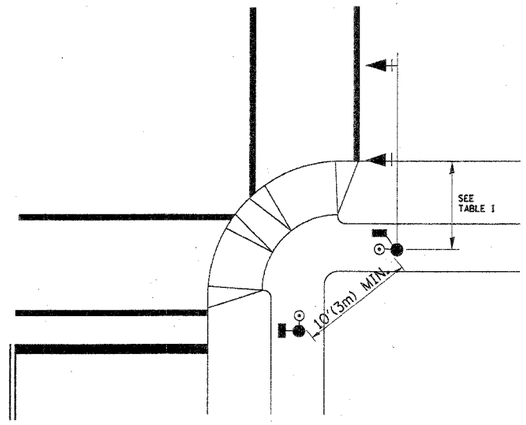
CONTRACT NO. 83820

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

   AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

   PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

   A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.

   B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.

   C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

   D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).

   E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK

2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

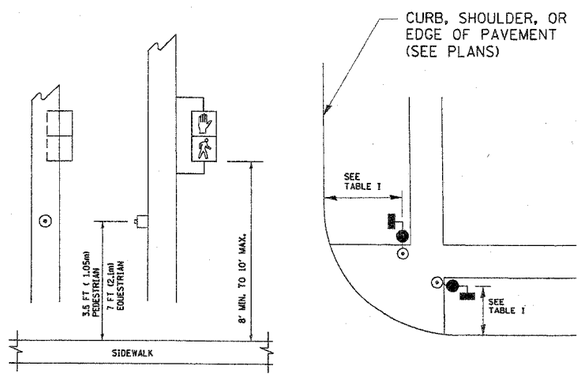


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. HORIZ. NONE

DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

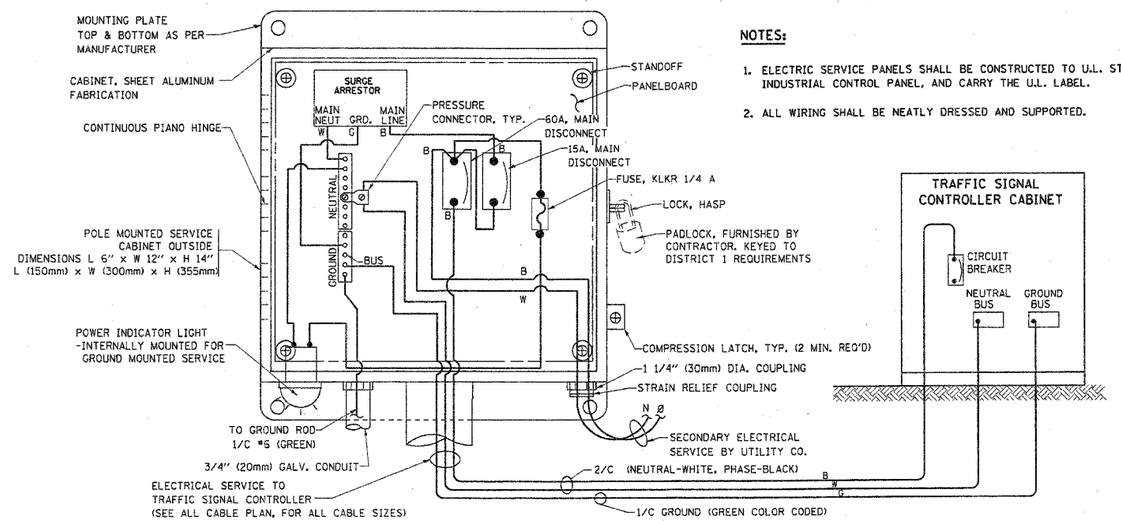
TS05

$FILE$

Tue Mar 12 13:21:29 2002
c:\projects\traffic\t007700\ts05.dgn LV=1-63

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820



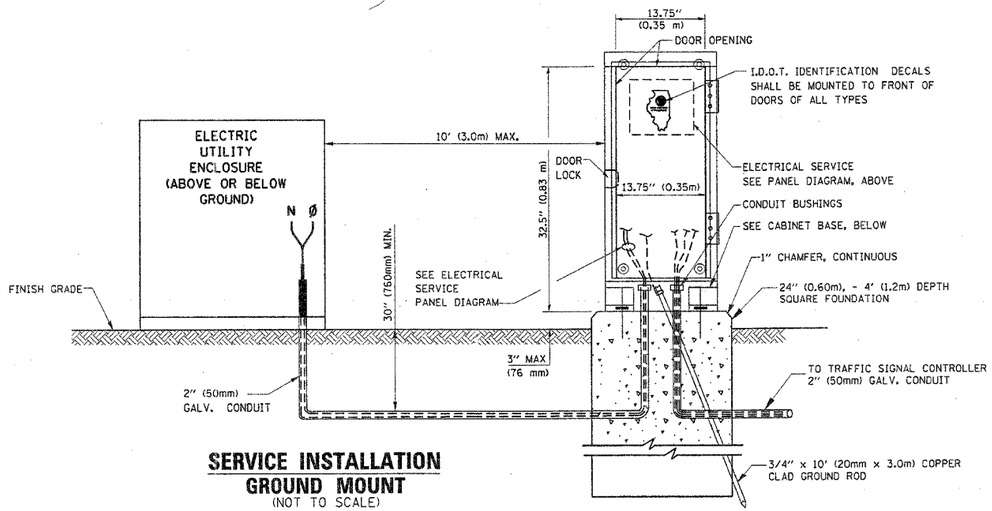
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

NOTES:

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

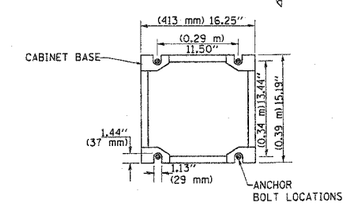
SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



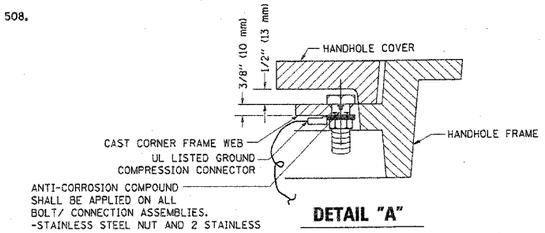
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

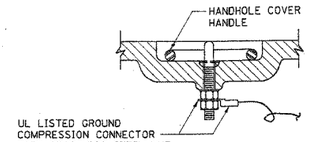


CABINET – BASE BOLT PATTERN

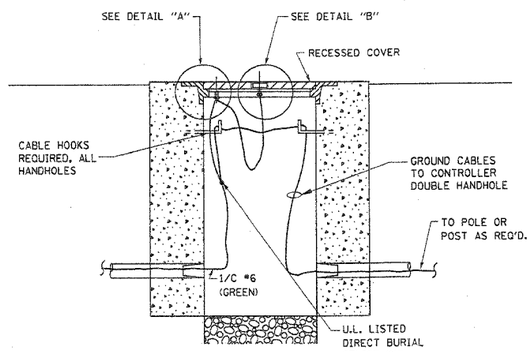
(NOT TO SCALE)



DETAIL "A"

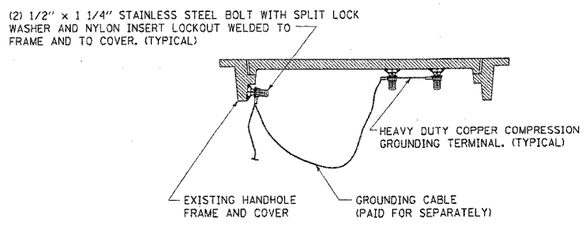


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



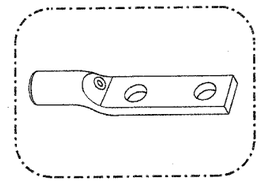
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

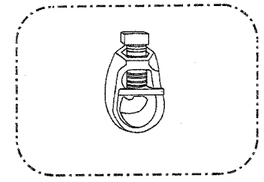
NOTES:

GROUNDING SYSTEM

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



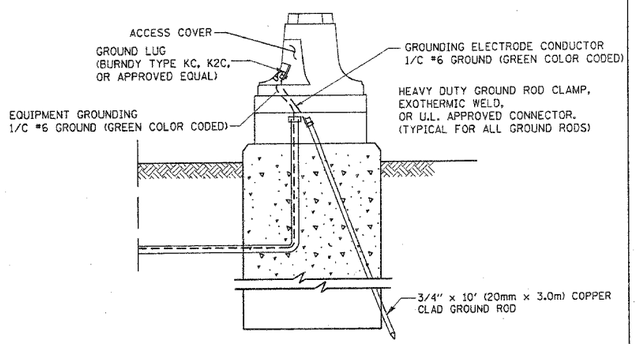
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

NOTES:

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



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 3 OF 4

TS05

$FILE$

Tue Mar 12 13:21:29 2002
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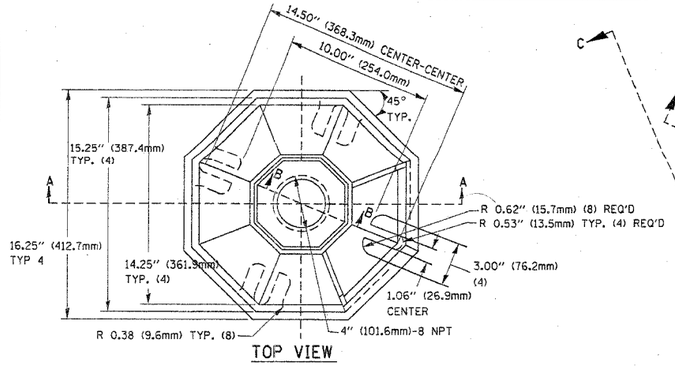
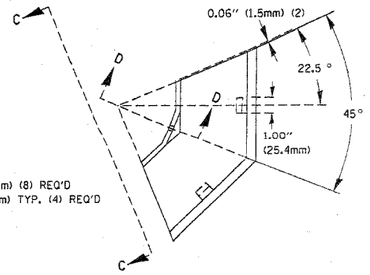
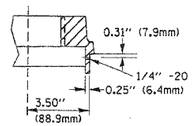
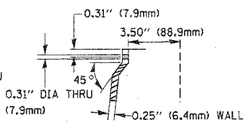


TOP VIEW

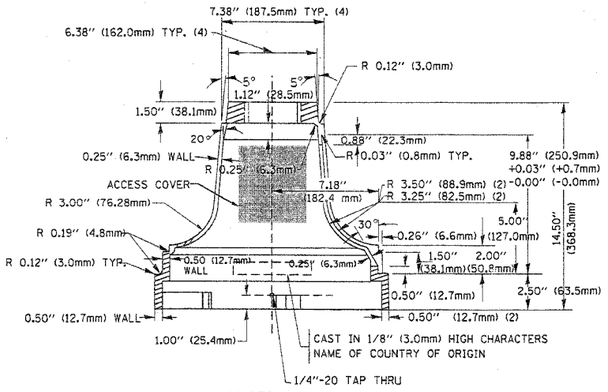




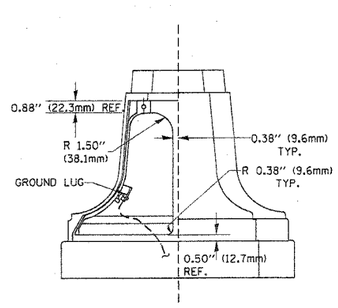
SECTION B-B



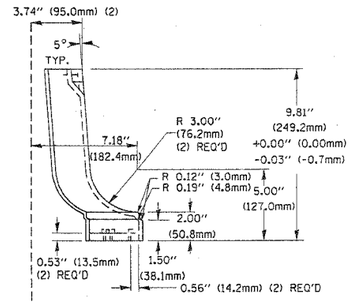
SECTION D-D



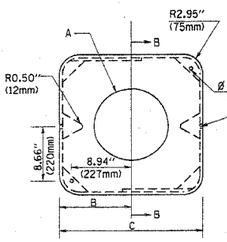
SECTION A-A

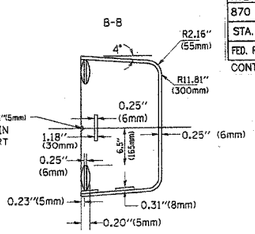


VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

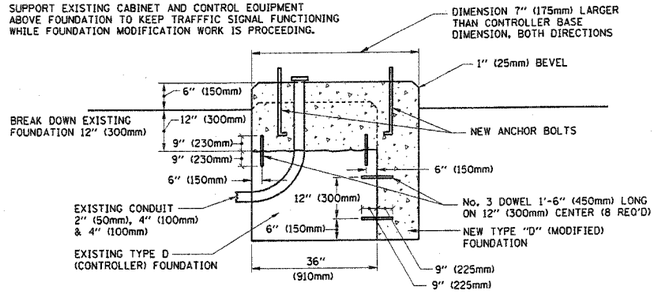
CONTRACT NO. 83820

MATERIAL:
- ASTM A48 CLASS 30 GREY IRON
- ASTM A123 HOT DIPPED GALVANIZED

TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125"(257mm)	9.5"(241mm)	19"(483mm)	12" (300mm)	24kg
II	Ø 11.125"(283mm)	10.75"(273mm)	21.5"(546mm)	12" (300mm)	26kg

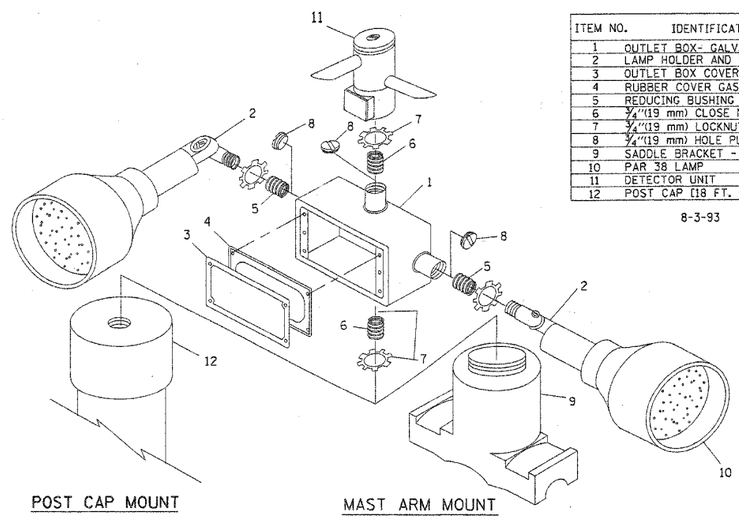
SHROUD DETAIL

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



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



POST CAP MOUNT

MAST ARM MOUNT

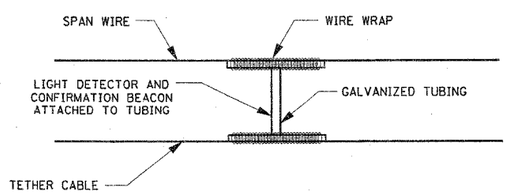
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

8-3-93

NOTES:

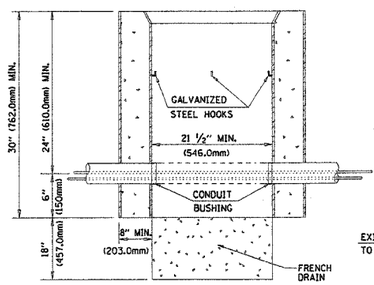
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(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.



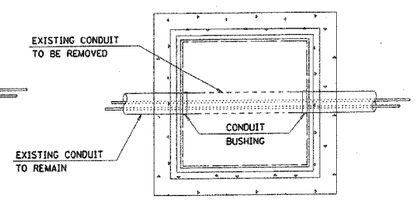
LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:
1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



ELEVATION



PLAN

DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT

N.T.S.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4

TS05

$FILE$

Tue Mar 12 13:21:30 2002
c:\projects\traffic\t007700\ts05.dgn LV:1-63

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

GENERAL NOTES

1. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURERS RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION I 816.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION I 821.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN XLP JACKET.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL J.U.L.I.E. TOLL FREE NUMBER 800-892-0123 AND STATE MAINTAINED TRAFFIC SIGNAL 312-974-2800.
6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF THE SHOULDER.
7. THE RESIDENT ENGINEER SHALL MARK LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 836-4130 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS.

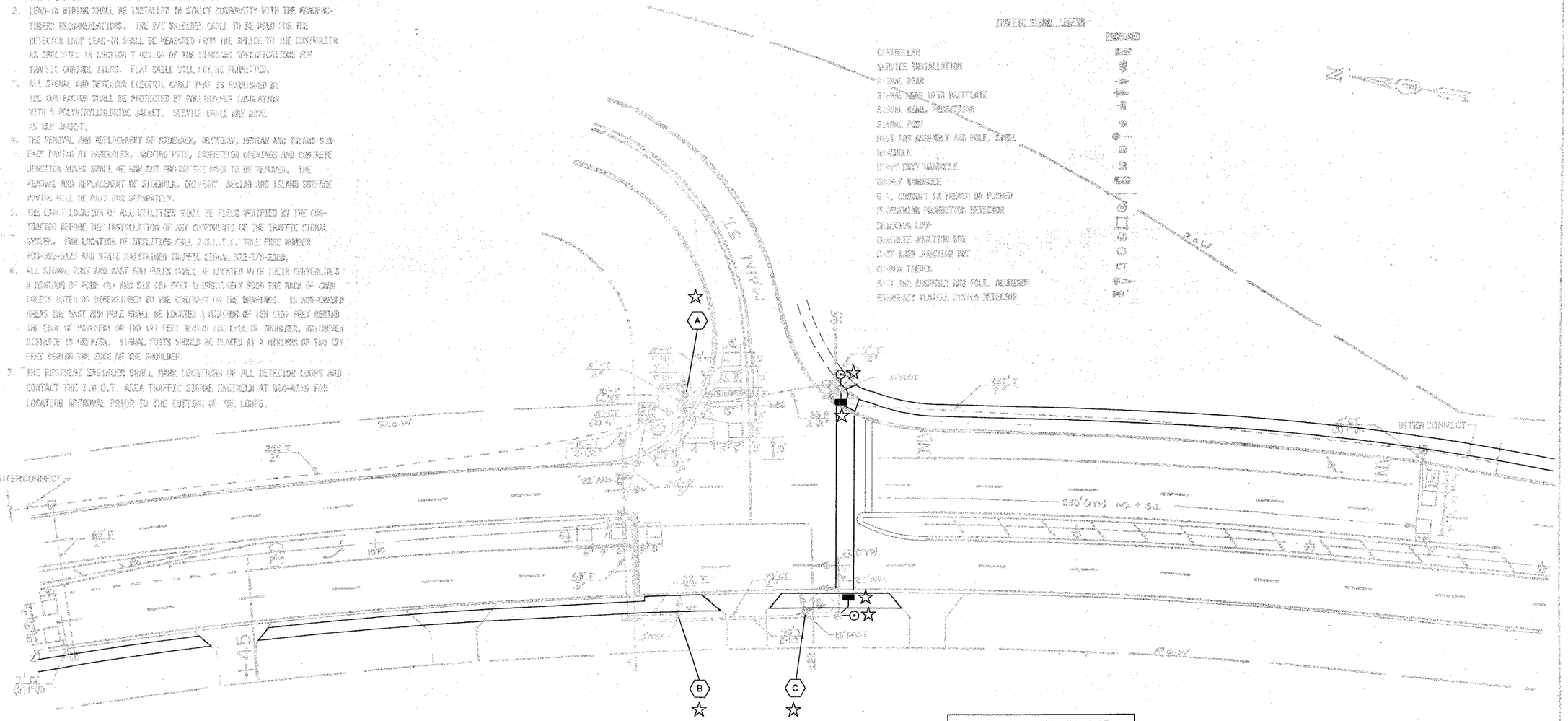
TRAFFIC SIGNAL LEGEND

EXISTING

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, SIGNAL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- MANHOLE HANDHOLE
- U.G. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- DIAGNOSTIC JUNCTION BOX
- POST TOP JUNCTION BOX
- CAMERA THERON
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM DETECTOR

PROPOSED

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, SIGNAL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- MANHOLE HANDHOLE
- U.G. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- DIAGNOSTIC JUNCTION BOX
- POST TOP JUNCTION BOX
- CAMERA THERON
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM DETECTOR



NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

(A) REPLACE TRAFFIC SIGNAL HEAD; FROM 1-FACE, 4-SECTION TO 1-FACE, 3-SECTION BRACKET MOUNTED

(B) REPLACE TRAFFIC SIGNAL HEAD; FROM 2-FACE, 1-4 SECTION, 1-3 SECTION TO 2-FACE, 2-3 SECTION, BRACKET MOUNTED

(C) REPLACE TRAFFIC SIGNAL HEAD; FROM 1-FACE, 3-SECTION TO 1-FACE, 3-SECTION BRACKET MOUNTED

☆ Plans revised by JAMES J. BENES & ASSOCIATES

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION

IL. RTE. 59 & MAIN ST.

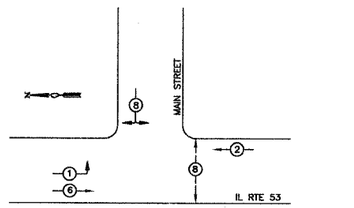
SCALE: HOR. 1"=20'
VERT. N.A.S.

DRAWN BY: MRH
DESIGNED BY: DJP
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

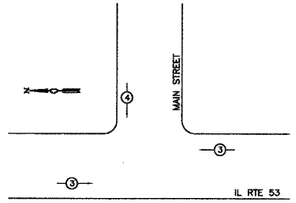
CONTRACT NO. 83820

CONTROLLER SEQUENCE ☆



PHASE DESIGNATION DIAGRAM

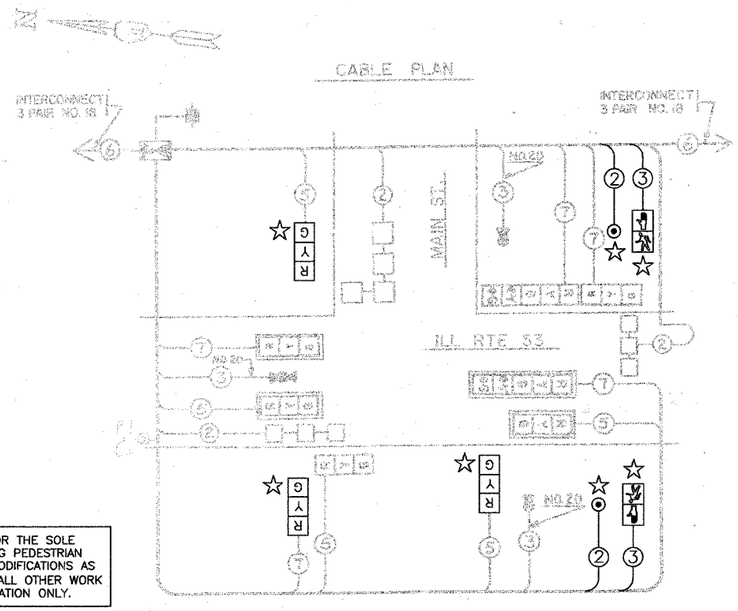
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE ☆



PROPOSED EMERGENCY VEHICLE PREEMPTIONS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	↓

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A "☆". ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

CABLE PLAN



CABLE INSTALLATION

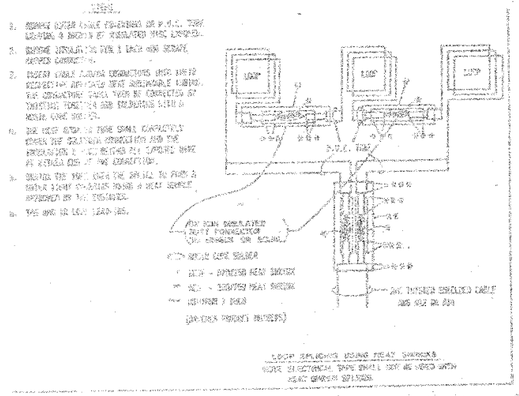
- C — 8" TRAFFIC SIGNAL SECTION
- D — 12" TRAFFIC SIGNAL SECTION
- E — 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN DETECTOR
- DENOTES NUMBER OF CONDUCTORS (NEMA). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- INDICATES POLYCOM CABLE
- SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
- EXISTING SIGNAL SECTION
- MAGNETIC DETECTION
- OPTICAL DETECTOR
- PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
8	SQ. FT.	ITEM PANEL TYPE I
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	TRAFFIC SIGNAL POST, 18 FT.
1	EACH	TRAFFIC SIGNAL POST, 35 FT.
2	EACH	TRAFFIC SIGNAL POST, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 24 FT.
1	EACH	FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE, 8 PHASES, IN TYPE IV CABINET
2	EACH	FIRE PREEMPTOR
1	EACH	COORDINATION MODULE
1	EACH	TELEMETRY MODULE
4	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
380	LIN. FT.	DETECTOR LOOP
10	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/2"
624	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
104	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2-1/2"
15	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
20	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
35	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
63	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2-1/2"
73	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
56	LIN. FT.	UNIT DUCT, WITHOUT CABLE IN TRENCH, 1"
11	LIN. FT.	ELECTRIC CABLE IN CONDUIT, NO. 6 2/C
654	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 12 5/C
628	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
829	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
1	EACH	SERVICE INSTALLATION, TYPE E
12	LIN. FT.	CONCRETE FOUNDATION, TYPE A
3.5	LIN. FT.	CONCRETE FOUNDATION, TYPE B
20	LIN. FT.	CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER
6	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE HEAVY-DUTY HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
5	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM, EMITTER UNIT
361	LIN. FT.	EMERGENCY VEHICLE PRIORITY SYSTEM, LEAD-IN CABLE IN CONDUIT

☆ SCHEDULE OF QUANTITIES
IL ROUTE 53 (Lincoln Avenue) and MAIN STREET

1	EACH	MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION
342	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
360	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D. 1-FACE BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT



SCHEDULE OF SIGNAL HEADS

2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION, 1-5 SECTION WITH 12" LENSES, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 5-SECTION WITH 12" LENSES, BRACKET MOUNTED

☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

REVISIONS	
NAME	DATE

Illinois Department of Transportation

IL RTE 53 & MAIN ST.

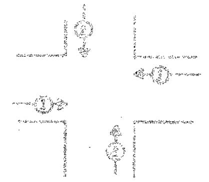
CABLE PLAN
SEQUENCE OF OPERATION
SCHEDULE OF SIGNAL HEADS
SCHEDULE OF QUANTITIES

SCALE: 1" = 20'
DRAWN BY: MJH
DESIGNED BY: DCP
CHECKED BY:
DATE: 7-26-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

PRIORITY SEQUENCE FOR
CONTROLLER SEQUENCE IV



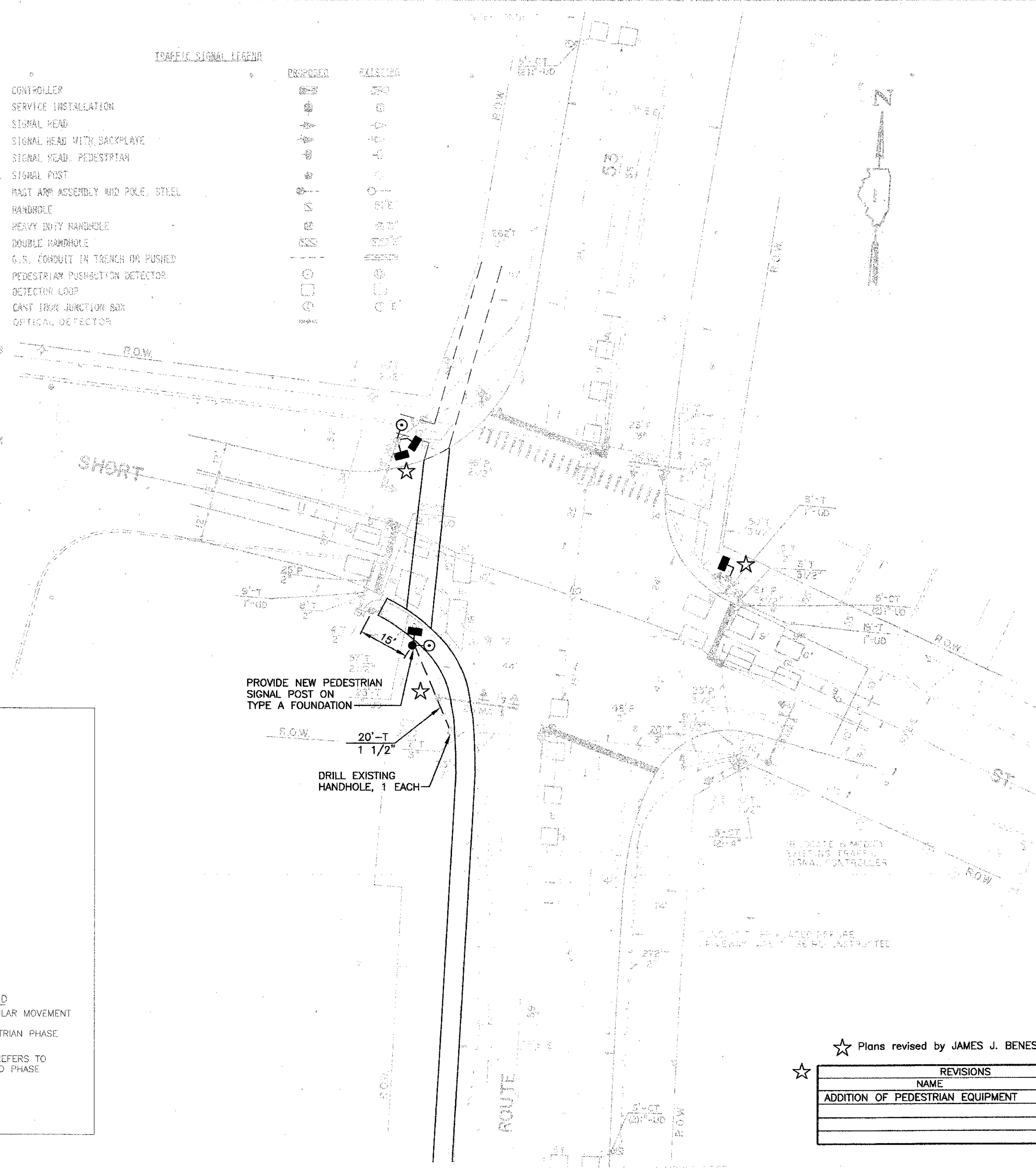
PROPOSED PRIORITY LANES		
PRIORITY LANE INTERVAL	1	2
MOVEMENT	⇄	⇅

NOTES:

1. TERMINATION OF PHASES 1+5 OR 3+7 SHALL BE WITH A YELLOW ARROW DISPLAYED TOGETHER WITH A CIRCULAR RED.
2. TERMINATION OF PHASES 1, 3, 5, OR 7 ALONE IN PHASES 1+6, 3+8, 2+5, OR 4+7 SHALL BE WITH A YELLOW ARROW DISPLAYED TOGETHER WITH A CIRCULAR GREEN WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS THE CIRCULAR GREEN.
3. TERMINATION OF PHASES 1+6, 3+8, 2+5 OR 4+7 SHALL BE WITH A CIRCULAR YELLOW DISPLAY WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS A CIRCULAR RED.
4. TERMINATION OF PHASES 2+6 OR 4+8 SHALL BE WITH A CIRCULAR YELLOW WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS A CIRCULAR RED. WHEN PHASES 2+6, OR 4+8 CIRCULAR GREEN IS TO BE DISPLAYED IN THE PRIORITY LANE INTERVAL, IT SHALL REMAIN GREEN.
5. TERMINATION OF ALL PEDESTRIAN INTERVALS SHALL INCLUDE A FULL FLASHING "DON'T WALK" CLEARANCE INTERVAL.
6. TERMINATION OF ALL PRIORITY INTERVALS SHALL BE WITH A CIRCULAR YELLOW EXCEPT WHEN THE GREEN DISPLAYED DURING THE PRIORITY INTERVAL IS TO REMAIN GREEN WHEN THE NORMAL SEQUENCE OF OPERATIONS RESUMES CONTROL OF THE INTERSECTION.
7. IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATIONS, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN LEAVING THE PRIORITY SEQUENCE.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
OPTICAL DETECTOR		

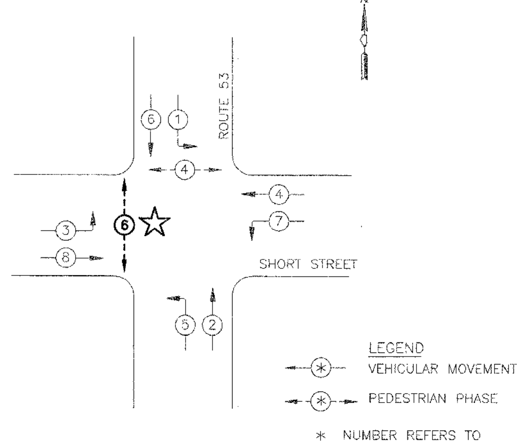


GENERAL NOTES

1. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURERS RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION T 818.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION T 821.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN XLP JACKET.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL J.U.L.I.E. TOLL FREE NUMBER 800-892-0123 AND STATE MAINTAINED TRAFFIC SIGNAL 312-378-2850.
6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF THE SHOULDER.
7. THE RESIDENT ENGINEER SHALL MARK THE LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 884-4530 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS.

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A "☆". ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DIVISION OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION

ROUTE 53 AND SHORT ST.

ILL. ROUTE 53

BRIGHTON ENGINEERING COMPANY CONSULTING ENGINEERS

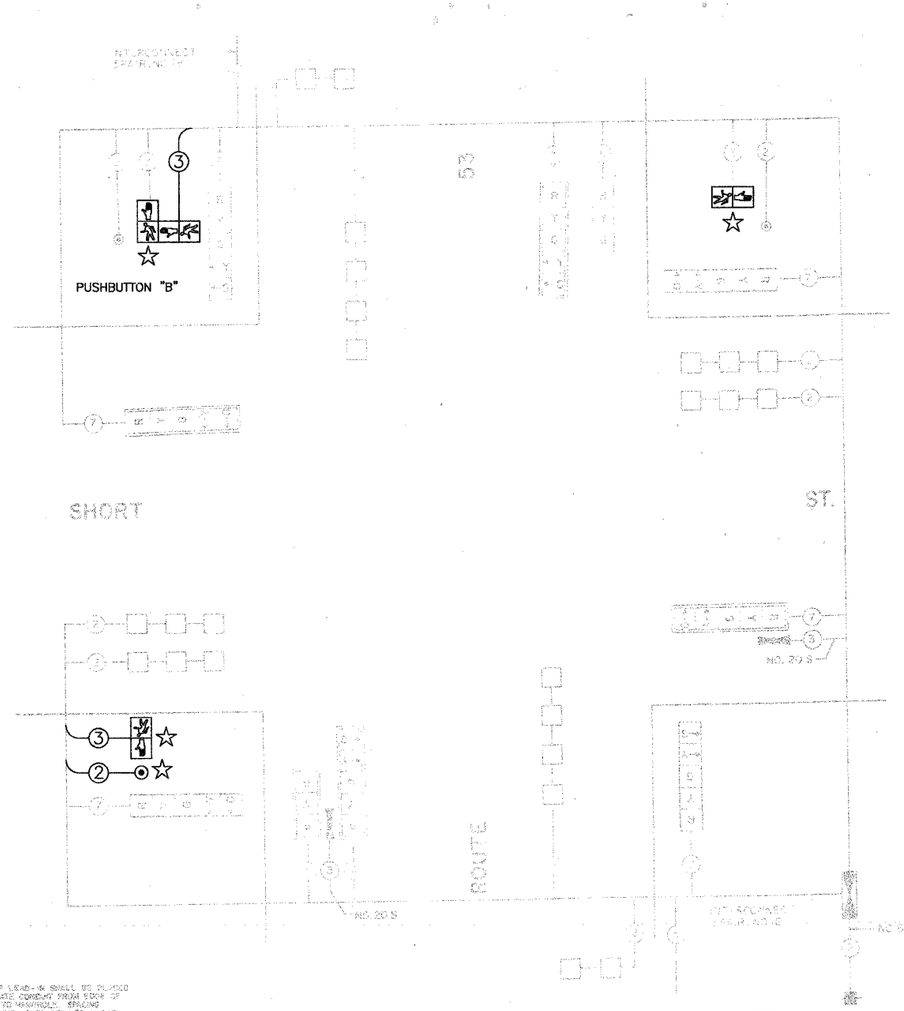
REV. 7-9-86 ACS —OXL 25-C-8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	DESCRIPTION
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTIONAL MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
-	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, MAST ARM MOUNTED
-	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSHBUTTON
8	EACH	TRAFFIC SIGNAL BACKPLATE
12	SQ.FT.	SIGN PANEL TYPE I
4	EACH	TRAFFIC SIGNAL POST, STEEL, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
907	LIN.FT.	DETECTOR LOOP
10	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1 1/2"
150	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
1107	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2 1/2"
349	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
62	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3 1/2"
1	EACH	SERVICE INSTALLATION, TYPE C
10	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
1170	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
1166	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
4860	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
1728	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C , TWISTED, SHIELDED
10	LIN.FT.	CONCRETE FOUNDATION, TYPE A
-	LIN.FT.	CONCRETE FOUNDATION, TYPE D
40	LIN.FT.	CONCRETE FOUNDATION, TYPE E, 24" DIA.
7	EACH	CONC. HANDHOLE
-	EACH	CONC. HEAVY-DUTY HANDHOLE
1	EACH	CONC. DOUBLE HANDHOLE
974	LIN.FT.	TRENCH AND BACKFILL
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER & CABINET
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	EVPE PREEMPTOR
2	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT
200	LIN.FT.	EMERGENCY VEHICLE PRIORITY SYSTEM LEAD-IN CABLE IN CONDUIT
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	COORDINATION MODULE
1	EACH	TELEMETRY MODULE
8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
125	LIN.FT.	LINE DUCT, WITHOUT CABLE, IN TRENCH, 1"
1	EACH	MAINTENANCE OF EXISTING CABLE, IN TRENCH, 1"
28	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
44	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2 1/2"
340	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
28	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 3 1/2"
10	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION



CABLE PLAN LEGEND

- 12" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- (2) — NUMERALS NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
- S — SHIELDED
- PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION

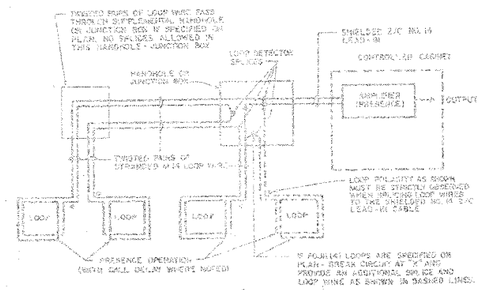
SCHEDULE OF SIGNAL HEADS

4 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
2 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED
4 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, BRACKET MOUNTED

2 EACH PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
2 EACH PEDESTRIAN PUSH BUTTON

NOTE: PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A "☆". ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.



LOOP DETECTOR SCHEMATIC

1. EACH LOOP LEAD-IN SHALL BE PLACED IN A SEPARATE CONDUIT FROM EDGE OF PAVEMENT TO HANDHOLE. SPACING BETWEEN ONE HOLE INSTALLED IN THE PAVEMENT SHALL NOT BE LESS THAN 4'.
2. EACH LOOP DETECTOR SPLICE SHALL BE AN IRIDIUM TYPE II OR TYPE III SPLICE.
3. LOOP TURNS AS RECOMMENDED BY THE MANUFACTURER.

☆ SCHEDULE OF QUANTITIES
IL ROUTE 53 (Lincoln Avenue) and SHORT STREET

20	FOOT	CONDUIT IN TRENCH, 1-1/2" DIA., GALVANIZED STEEL
1	EACH	MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION
173	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
792	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
1	EACH	DRILL EXISTING HANDHOLE
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE BRACKET MOUNTED
1	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
20	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK

☆ Plans revised by JAMES J. BENES & ASSOCIATES

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DIVISION OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION
ROUTE 53 AND SHORT ST.
CABLE PLAN

25-C-8

REV. 7-9-86 IDS

BRIGHTON ENGINEERING COMPANY — CONSULTING ENGINEERS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

PROJECT SERVICE FOR
TRAFFIC SIGNAL INSTALLATION

PROPOSED PEDESTRIAN EQUIPMENT

PEDESTRIAN EQUIPMENT	1	2
SIGNAL HEAD		
PUSHBUTTON		

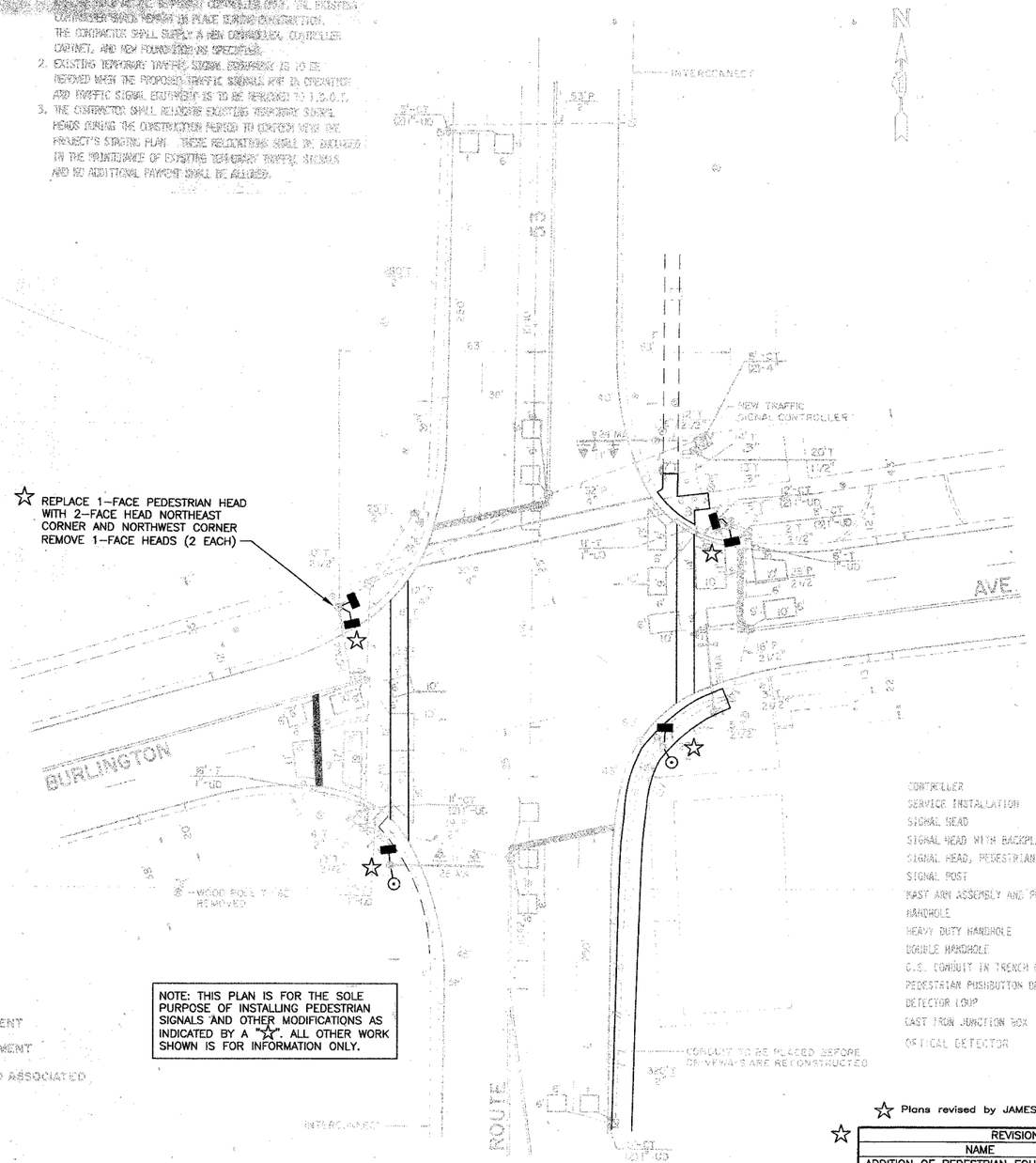
NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL CONSIST OF A SYMBOLIZED HAND DISPLAY AND A SYMBOLIZED WALKING PERSON DISPLAY.
2. PEDESTRIAN MOVEMENTS 2, 4, 6, & 8 SHALL ALSO BE PROVIDED DURING PHASES 3+8, 3+8, 2+5, OR 4+7 WHEN THE VEHICULAR SIGNAL INDICATIONS ARE DISPLAYED WITH A CIRCULAR GREEN WHICH INDICATES THE PERMISSIVE MODE. DURING THESE PHASES THE PEDESTRIAN SIGNAL DISPLAYS THE SYMBOLIZED WALKING PERSON.
3. PEDESTRIAN MOVEMENTS 1, 3, 5, & 7 SHALL BE WITH A CIRCULAR YELLOW INDICATION AND REMAINED FOR A MINIMUM CLEARANCE INTERVAL WHICH DISPLAYS A CIRCULAR RED.
4. PEDESTRIAN MOVEMENTS 2, 4, 6, & 8 SHALL BE WITH A CIRCULAR YELLOW INDICATION FOR A MINIMUM CLEARANCE INTERVAL WHICH DISPLAYS A CIRCULAR RED. WHEN PEDESTRIAN MOVEMENTS 2, 4, 6, & 8 ARE TERMINATED PRIOR TO THE VEHICULAR PHASE TERMINATION, THE CIRCULAR YELLOW SHALL BE ILLUMINATED DURING THE CLEARANCE INTERVAL.
5. PEDESTRIANS SHALL BE ALLOWED TO CROSS ONLY DURING THEIR OWN PHASE.
6. PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED WITHIN 5 FEET OF THE EDGE OF THE CROSSWALK TO BE SERVED.
7. IN ALL CASES WHERE THE PEDESTRIAN PUSHBUTTONS ARE NOT WITHIN CLOSE PROXIMITY OF THE CROSSWALK TO BE SERVED, SIGNS SHALL BE INSTALLED ADJACENT TO THE PUSHBUTTONS INDICATING WHICH CROSSWALK THE PUSHBUTTON SERVES.
8. IF ALL THE CROSSWALKS ARE NOT TO BE SERVED DURING ALL PHASES OF OPERATION, THE SIGNS SHALL BE INSTALLED ADJACENT TO THE PUSHBUTTONS INDICATING WHICH CROSSWALK THE PUSHBUTTON SERVES DURING WHICH PHASE OR PHASES.

SPECIAL NOTES

THE CONTRACTOR IS A FULLY ACCREDITED CONTRACTOR, SUPPLIER OR INSTALLER IN TYPE IN CONNECTION WITH THE CONTROLLER EQUIPMENT AND A TYPE BASE CONFLICT UNIT, AND SHALL NOTIFY THE RESPONSIBLE CONTROLLER UNIT, THE EXISTING CONTROLLER SHALL REMAIN IN PLACE DURING CONSTRUCTION. THE CONTRACTOR SHALL SUPPLY A NEW CONTROLLER, CONTROLLER CABINET, AND NEW FOUNDATION AS SPECIFIED.

2. EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT IS TO BE REMOVED WHEN THE PROPOSED TRAFFIC SIGNALS ARE IN OPERATION AND TRAFFIC SIGNAL EQUIPMENT IS TO BE REMOVED TO I.D.O.T.
3. THE CONTRACTOR SHALL RELOCATE EXISTING TEMPORARY SIGNAL HEADS DURING THE CONSTRUCTION PERIOD TO CONFORM WITH THE PROJECT'S STAGING PLAN. THESE RELOCATIONS SHALL BE INCLUDED IN THE MAINTENANCE OF EXISTING TEMPORARY TRAFFIC SIGNALS AND NO ADDITIONAL PAYMENT SHALL BE ALLOWED.



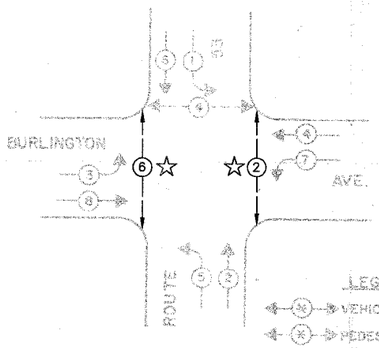
NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

GENERAL NOTES

1. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR MANUFACTURERS RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION 7 PARAGRAPH OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION 7 PARAGRAPH OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN ALP JACKET.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL J.U.L.I.E. TOLL FREE NUMBER 800-892-0123 AND STATE MAINTAINED TRAFFIC SIGNAL 312-378-2600.
6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF THE SHOULDER.
7. STRIPING ON BURLINGTON AVE. TO BE DONE BY OTHERS
8. STREET NAME SIGNS FOR MAST ARMS ARE SHOWN ON SIGNING PLANS.
9. THE RESIDENT ENGINEER SHALL MARK THE LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 594-4139 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS.

CONTROLLER SEQUENCE III

REFERRING TO STANDARD 2356, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE	HH	HH
HEAVY DUTY HANDHOLE	HD	HD
DOUBLE HANDHOLE	DHH	DHH
C.I.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
OPTICAL DETECTOR		

☆ Plans revised by JAMES J. BENES & ASSOCIATES

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DIVISION OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION
ROUTE 53 AND BURLINGTON AVE.
ILL. RT. 53

BRIGHTON ENGINEERING COMPANY CONSULTING ENGINEERS

REV. 7-2-86 R.C.S.

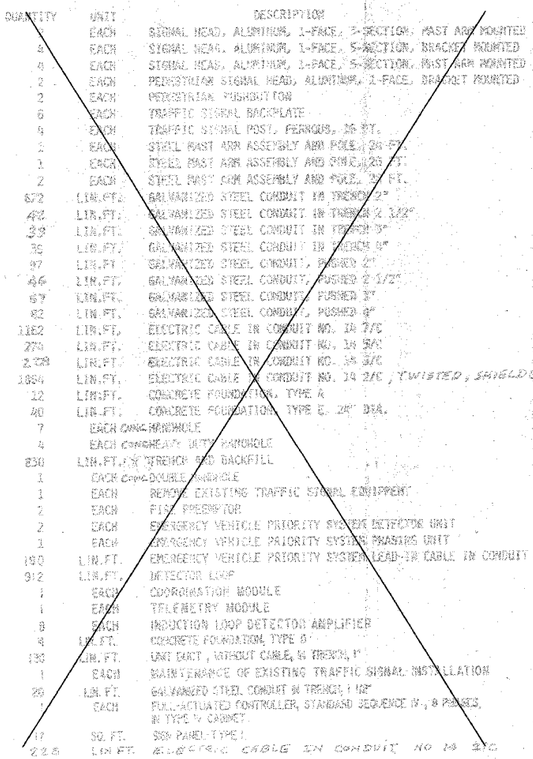
-K.Z.
26-5-17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	DESCRIPTION
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSHBUTTON
6	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	TRAFFIC SIGNAL POST, FERROUS, 14 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 25 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 21 FT.
672	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
492	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2 1/2"
33	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
36	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
97	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
46	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2 1/2"
67	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
82	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 4"
1162	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
270	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
2 238	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
1854	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C, TWISTED, SHIELDED
12	LIN.FT.	CONCRETE FOUNDATION, TYPE A
40	LIN.FT.	CONCRETE FOUNDATION, TYPE E, 24" DIA.
7	EACH	CONCRETE HANDHOLE
4	EACH	CONCRETE UTILITY HANDHOLE
850	LIN.FT.	TRENCH AND BACKFILL
1	EACH	CONCRETE DOUBLE HANDHOLE
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	FIRE PREEMPTOR
2	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT
150	LIN.FT.	EMERGENCY VEHICLE PRIORITY SYSTEM LEAD-IN CABLE IN CONDUIT
912	LIN.FT.	DETECTOR LOOP
1	EACH	COORDINATION MODULE
1	EACH	TELEMETRY MODULE
8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
4	LIN.FT.	CONCRETE FOUNDATION, TYPE B
135	LIN. FT.	UNIT DUCT, WITHOUT CABLE, 4" (100mm), 1"
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
20	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH, 1 1/2"
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE NO. 8 PHASES, IN TYPE IV CABINET
17	SQ. FT.	SIGN PANEL TYPE I
225	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C



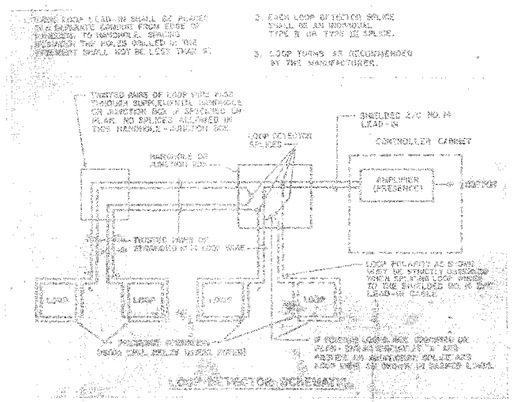
CABLE PLAN
NOT TO SCALE

CABLE PLAN LEGEND

- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN DETECTOR
- (2) GIVEN NUMBER OF CONDUCTORS (AWG) ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- SIGNAL FACE WITH BACKPLATE "R" INDICATES ENERGIZED
- OPTICAL DETECTOR
- S SHIELDED
- 12" (300mm) PEDESTRIAN SIGNAL SECTION

SCHEDULE OF SIGNAL HEADS

4 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
2 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
4 EACH SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, BRACKET MOUNTED
2 EACH PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
2 EACH PEDESTRIAN PUSH BUTTON



☆ SCHEDULE OF QUANTITIES IL ROUTE 53 (Lincoln Avenue) and Burlington Avenue		
1	EACH	MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION
406	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
934	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

NOTE: PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A "☆". ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆ REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DIVISION OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION

ROUTE 53 AND BURLINGTON AVE.

CABLE PLAN

BRIGHTON ENGINEERING COMPANY CONSULTING ENGINEERS

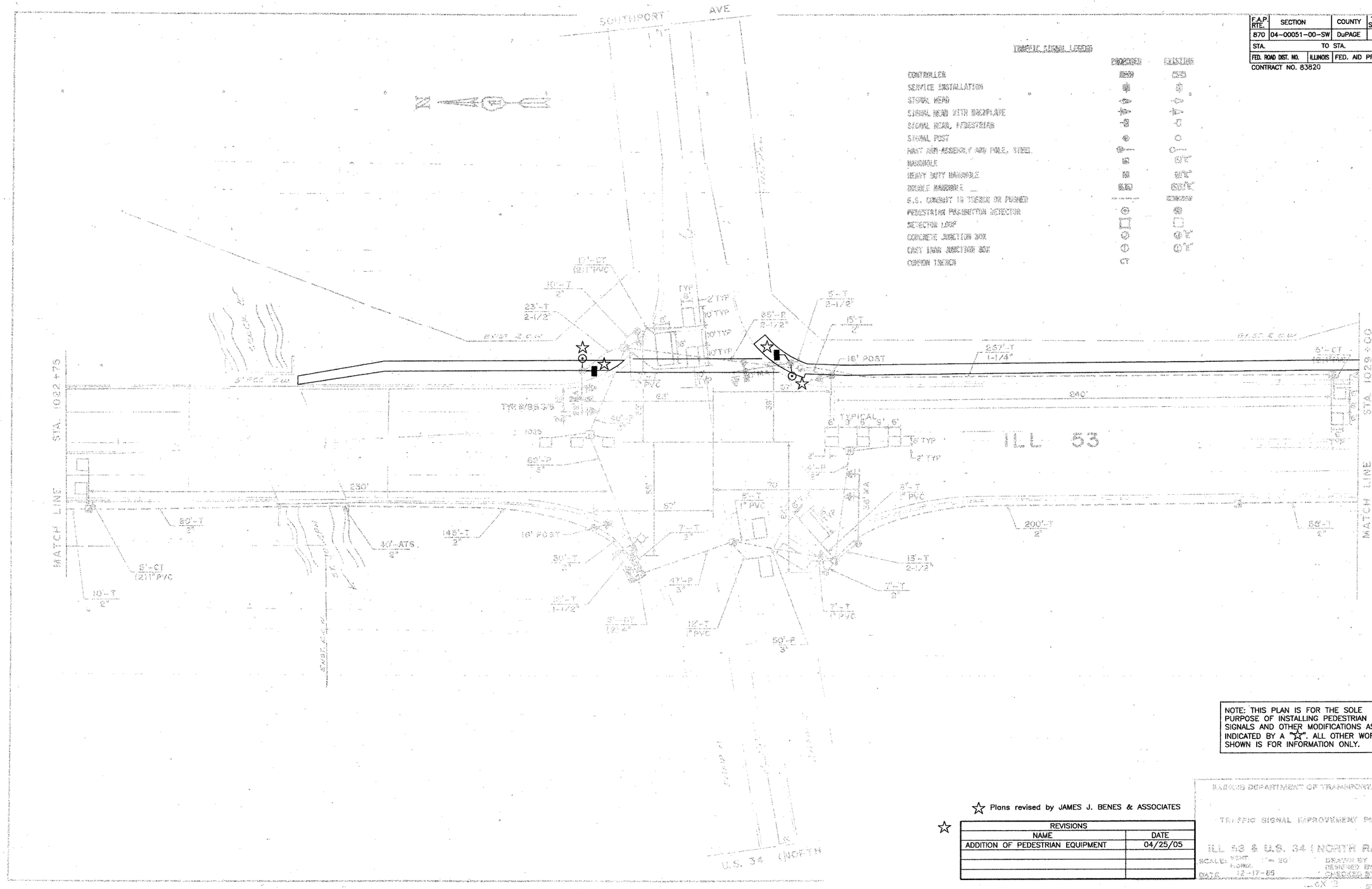
REV. 7-8-04 RCS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	▭	▭
SERVICE INSTALLATION	⊕	⊕
SIGNAL HEAD	⊲	⊲
SIGNAL HEAD WITH BACKPLATE	⊲	⊲
SIGNAL HEAD, PEDESTRIAN	⊡	⊡
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	⊕—	○—
HANDHOLE	▣	▣
HEAVY DUTY HANDHOLE	▣	▣
DOUBLE HANDHOLE	▣▣	▣▣
S.S. CABLE IN TRENCH OR PLOWED	———	———
PEDESTRIAN PUSHBUTTON DETECTOR	⊙	⊙
DETECTOR LOOP	□	□
CONCRETE JUNCTION BOX	⊙	⊙
CAST IRON JUNCTION BOX	⊙	⊙
COMBO TRENCH	CT	



NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL IMPROVEMENT PLAN

ILL 53 & U.S. 34 (NORTH RAMP)

SCALE: HORIZ. 1" = 20' DRAWN BY DMH
VERT. DESIGNED BY ESJ
DATE 12-17-85 CHECKED BY ESJ

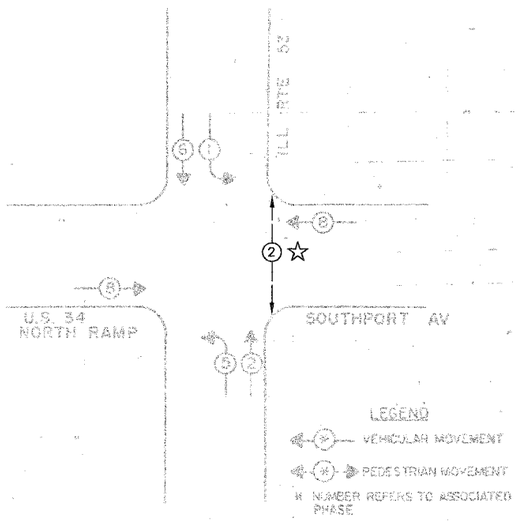
SHEET 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

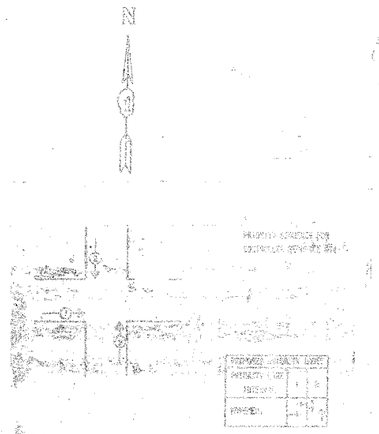
CONTRACT NO. 83820

CONTROLLER SEQUENCE III

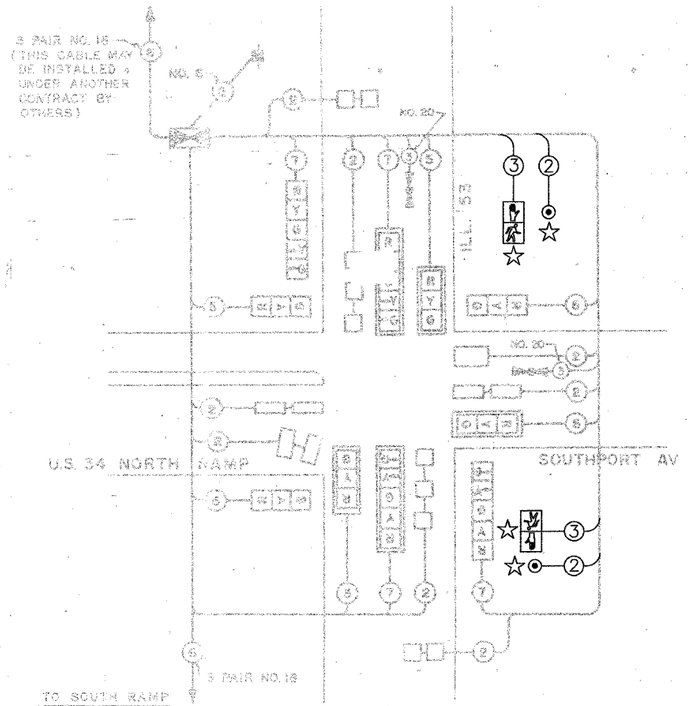
REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM



NOTES:
1. TERMINATION OF PHASES 2 AND 6 SHALL BE WITH A YELLOW ARROW DISPLAYED FOLLOWED BY A CIRCULAR RED.
2. TERMINATION OF PHASE 4 OR 8 SHALL BE WITH A CIRCULAR YELLOW DISPLAY FOLLOWED BY A PROTECTED LANE CONTROL WITH A CIRCULAR RED.
3. TERMINATION OF PHASES 1 OR 5 SHALL BE WITH A CIRCULAR YELLOW DISPLAY FOLLOWED BY A PROTECTED LANE CONTROL WITH A CIRCULAR RED.
4. THE DESIGNATION OF PHASES 4 OR 8 SHALL BE WITH A CIRCULAR YELLOW DISPLAY FOLLOWED BY A PROTECTED LANE CONTROL WITH A DISPLAY OF A CIRCULAR RED. WHEN PHASES 4 OR 8 IS A CONTROL POINT TO BE ENCOUNTERED AT THE PERIMETER LANE INTERVAL TO SMALL DENSITY VEHICLE.
5. TERMINATION OF ALL PEDESTRIAN INTERVALS SHALL INCLUDE A FULL FLASHING DON'T WALK CLEARANCE INTERVAL.
6. TERMINATION OF ALL PERIMETER INTERVALS SHALL BE WITH A CIRCULAR YELLOW EXCEPT WHEN THE GREEN DISPLAYED DURING THE PERIMETER INTERVAL IS TO REMOVE VEHICLES FROM THE NORMAL PATHWAY OF OPPOSITELY MOVING VEHICLES, IN WHICH INTER-



CABLE PLAN

CABLE PLAN LEGEND

- "8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTOR LOOP
- (3#C)(#) INDICATES NUMBER OF CONDUCTORS (#NO.), AND LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- (#) INDICATES EXISTING CABLE
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- SIGNAL FACE WITH BACKPLATE 'P' INDICATES PROGRAMMED
- PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	PAY ITEM
16.5	SQ.FT.	SIGN PANEL TYPE 1
3	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
5	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	TRAFFIC SIGNAL POST, FERROUS 14'
2	EACH	TRAFFIC SIGNAL POST, FERROUS 16'
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE 36 FT.
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE III, 5 PHASES, IN TYPE IV CABINET
8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
558	LIN.FT.	DETECTOR LOOP
252	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/4"
32	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/2"
798	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
40	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2-1/2"
10	LIN.FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
128	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
85	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 2-1/2"
232	LIN.FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
40	LIN.FT.	GALVANIZED STEEL CONDUIT EXTENDED TO STRUCTURE 2"
98	LIN.FT.	PVC CONDUIT IN TRENCH 2"
15	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
932	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 10 5/C
672	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
1562	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
1012	LIN.FT.	ELECTRIC CABLE IN CONDUIT NO. 16 3 PAIR TWISTED SHIELDED
1	EACH	SERVICE INSTALLATION, TYPE E
15	LIN.FT.	CONCRETE FOUNDATION, TYPE 1
3.5	LIN.FT.	CONCRETE FOUNDATION, TYPE 2
10	LIN.FT.	CONCRETE FOUNDATION, TYPE 4 28-INCH DIAMETER
30	LIN.FT.	CONCRETE FOUNDATION, TYPE 4 30-INCH DIAMETER
6	EACH	CONCRETE HANDHOLE
2	EACH	CONCRETE HEAVY DUTY HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
1171	LIN.FT.	TRENCH AND BACKFILL
1	SUM	COMBINATION FERRULE
1	EACH	TELEMETRY MODULE
2	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNIT
1	EACH	EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT
1959	LIN.FT.	EMERGENCY VEHICLE PRIORITY SYSTEM 16AWG CABLE IN CONDUIT
2	EACH	FIRE PREEMPTOR

☆ SCHEDULE OF QUANTITIES
IL ROUTE 53 (Lincoln Avenue) and U.S. 34 (North Ramp)

1	EACH	MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION
452	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
470	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER

SCHEDULE OF SIGNAL HEADS

3 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 3-SECTION WITH 12" LENSES, BRACKET MOUNTED

3 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED

2 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 5-SECTION WITH 12" LENSES, BRACKET MOUNTED

2 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆

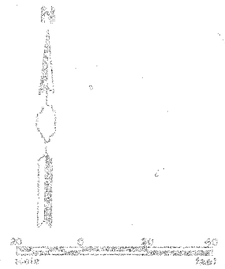
REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
PHASE DESIGNATION DIAGRAM
SCHEDULE OF SIGNAL HEADS
SCHEDULE OF QUANTITIES
IL 53 & U.S. 34 (NORTH RAMP)

SCALE: NONE
DATE: 12-17-85
DRAWN BY: DMH
DESIGNED BY: EGT
CHECKED BY: EGT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

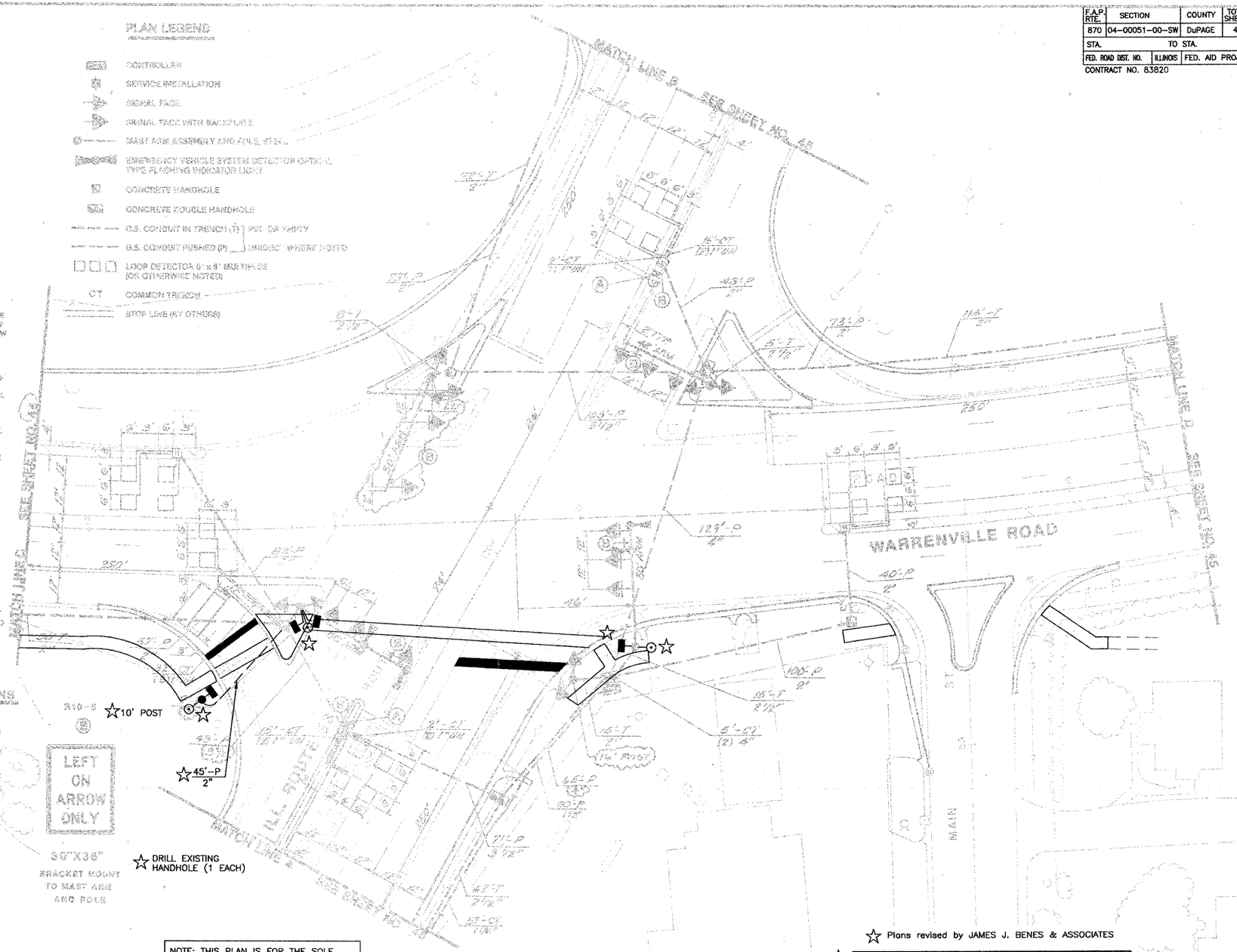


PLAN LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL FACE
- SIGNAL FACE WITH BACKPLATE
- MAST ARM ASSEMBLY AND POLE, STEEL
- EMERGENCY VEHICLE SYSTEM DETECTOR OPTICAL TYPE FLASHING INDICATOR LIGHT
- CONCRETE HANDHOLE
- CONCRETE DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) PVC OR EQUIV.
- G.S. CONDUIT PUSHED (P) ___ UNLESS OTHERWISE NOTED
- LOOP DETECTOR 6' x 6' MULTIPASS (OR OTHERWISE NOTED)
- CT COMMON TRENCH
- STOP LINE (BY OTHERS)

TRAFFIC SIGNAL GENERAL NOTES

1. ALL DETECTION LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURERS' RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE, AS SPECIFIED IN SECTION 7.10(A) OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS' RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE BRIDGE TO THE CONTROLLER, AS SPECIFIED IN SECTION 7.10(A) OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN XLP JACKET.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN, AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS, AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN, AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E., TOLL-FREE NUMBER 1-800-892-0123.
6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET, RESPECTIVELY, FROM THE BACK OF CURB, UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS, IN NON-CURBED AREAS, THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF THE SHOULDER.
7. THE RESIDENT ENGINEER SHALL MARK LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 584-4138 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF LOOPS.



NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

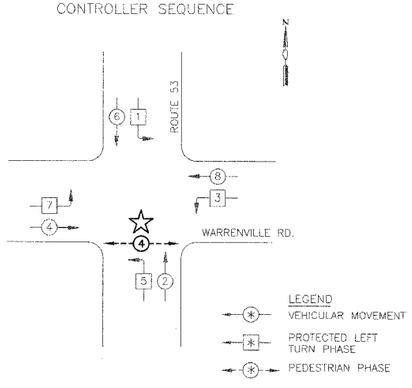
☆ Plans revised by JAMES J. BENES & ASSOCIATES

REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	28
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820

CONTROLLER SEQUENCE

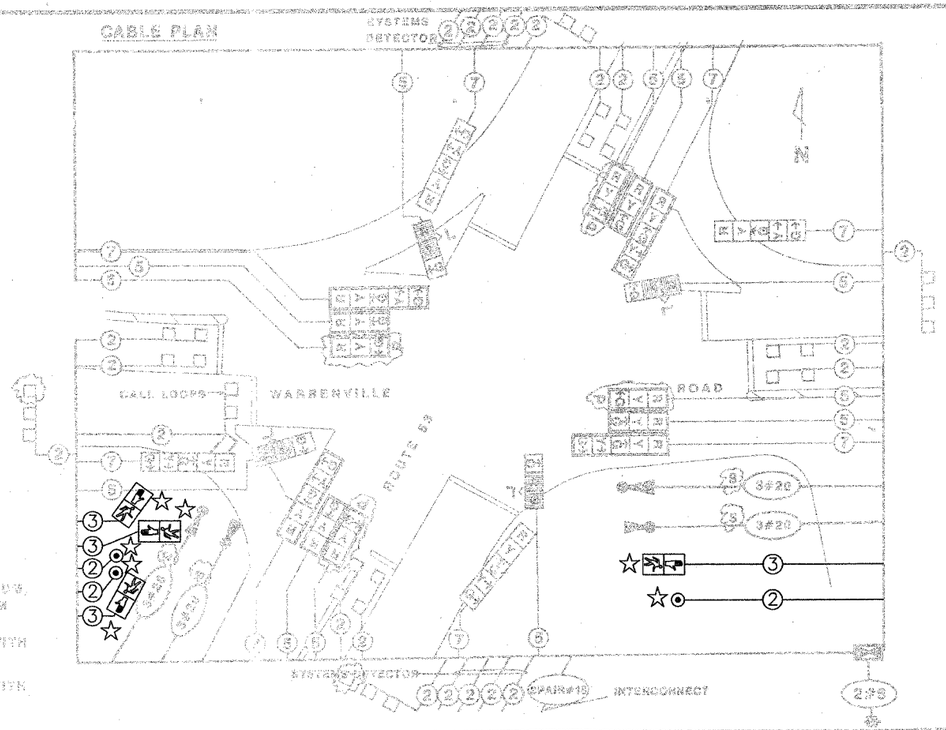


PHASE DESIGNATION DIAGRAM

CABLE LEGEND

- 12" TRAFFIC SIGNAL SECTION
- CONTROLLER CABINET
- VEHICLE DETECTOR, INDUCTION LOOP MULTIPLES 6' x 9' (OR OTHERWISE NOTED)
- (2) DENOTES NUMBER OF CONDUCTORS (#14), ALL LOOP DETECTOR CABLE TO BE SHIELDED ALL CABLE NO. 14 EXCEPT AS INDICATED
- SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
- PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION

CABLE PLAN

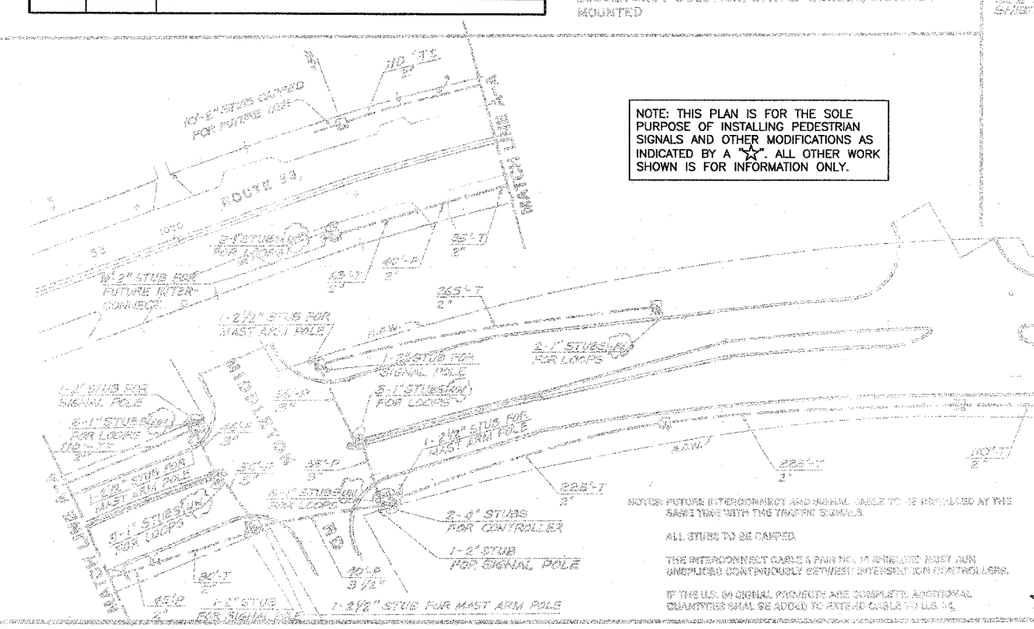


SCHEDULE OF QUANTITIES IL ROUTE 53 (Lincoln Avenue) and Warrenville Road (CH 3)		
320	SQ FT	MEDIAN SURFACE REMOVE AND REPLACE
45	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
1	EACH	MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION
560	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
833	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1	EACH	TRAFFIC SIGNAL POST,GALVANIZED STEEL, 10 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
1	EACH	DRILL EXISTING HANDHOLE
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE BRACKET MOUNTED
3	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER

SCHEDULE OF PROPOSED SIGNAL HEADS

- 4 OPTICALLY PROGRAMMED SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, WITH 12" LENSES MAST ARM MOUNTED
- 4 SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, MAST ARM MOUNTED
- 4 SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, WITH 12" LENSES, MAST ARM MOUNTED
- 4 SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION, LOUVER AND 1-3 SECTION, WITH 12" LENSES, BRACKET MOUNTED

NOTE: THIS PLAN IS FOR THE SOLE PURPOSE OF INSTALLING PEDESTRIAN SIGNALS AND OTHER MODIFICATIONS AS INDICATED BY A ☆. ALL OTHER WORK SHOWN IS FOR INFORMATION ONLY.

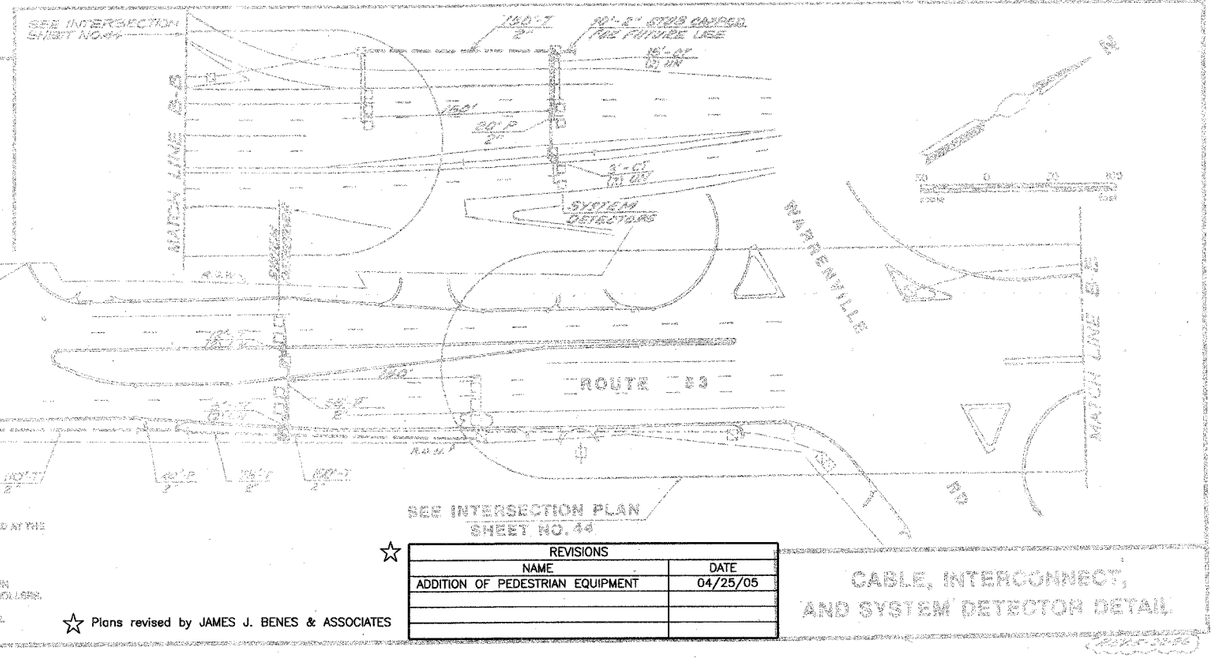


NOTES: FUTURE INTERCONNECT AND SIGNAL CABLE TO BE INSTALLED AT THE SAME TIME WITH THE TRAFFIC SIGNALS.

ALL STUBS TO BE CAPPED.

THE INTERCONNECT CABLE 2 PAIR NO. 19 SHIELDED MUST RUN UNSPLICED CONTINUOUSLY BETWEEN INTERSECTION CONTROLLERS.

IF THE U.S. 20 SIGNAL PROJECTS ARE COMPLETE, ADDITIONAL QUANTITIES SHALL BE ADDED TO EXTEND CABLE TO U.S. 20.



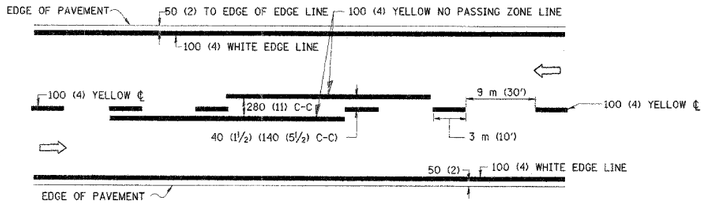
☆ Plans revised by JAMES J. BENES & ASSOCIATES

☆ REVISIONS	
NAME	DATE
ADDITION OF PEDESTRIAN EQUIPMENT	04/25/05

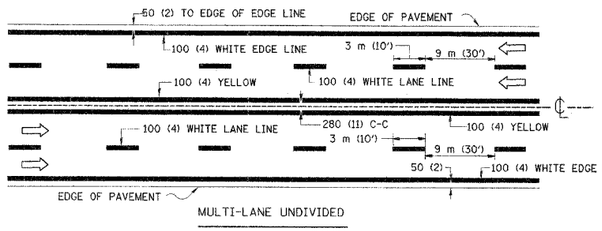
CABLE, INTERCONNECT, AND SYSTEM DETECTOR DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

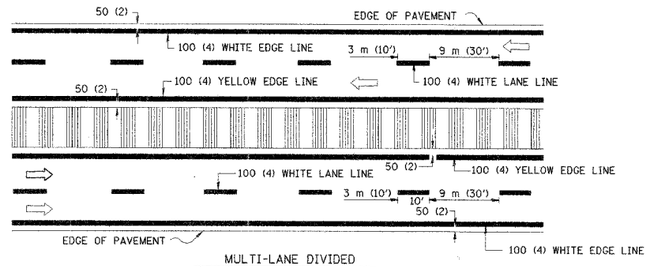
CONTRACT NO. 83820



2-LANE ROADWAY



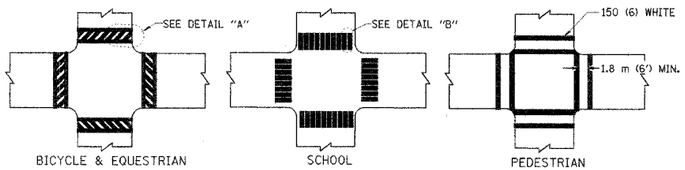
MULTI-LANE UNDIVIDED



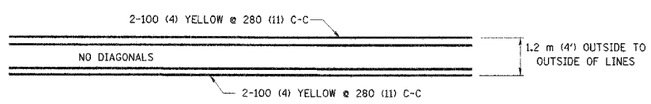
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

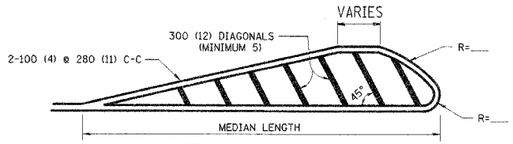
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



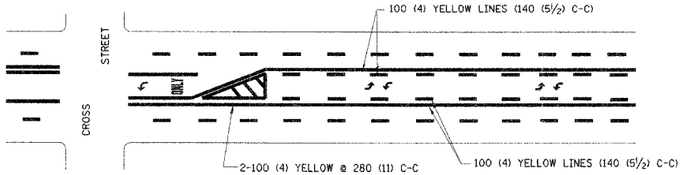
1.2 m (4') WIDE MEDIANS ONLY



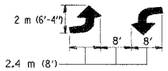
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 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 (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

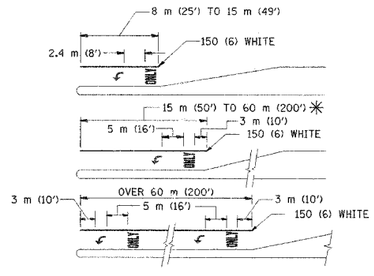


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

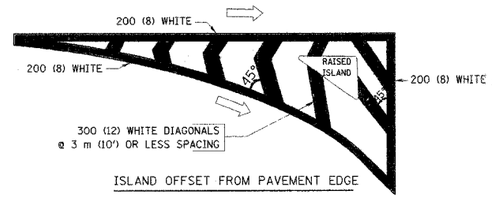


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
↰ AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

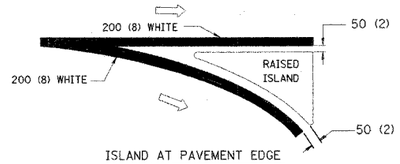
✳ TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED 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 (5½) 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 (5½) 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 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.
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"=0.40 m² (4.3 SQ. FT.) EACH "X"=5.0 m² (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 ADOPTED JANUARY 1, 1997 AND STATE STANDARD 780001.

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

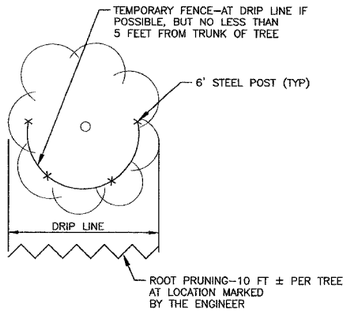
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DRAWN BY CADD
DATE $$DATE$$
CHECKED BY

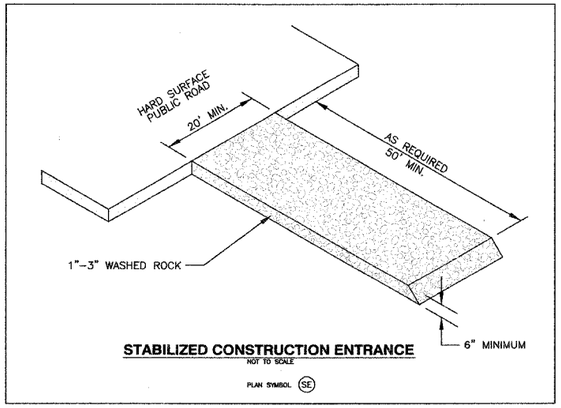
DATE-TIME
DGN-SPEC
V1=TC13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820



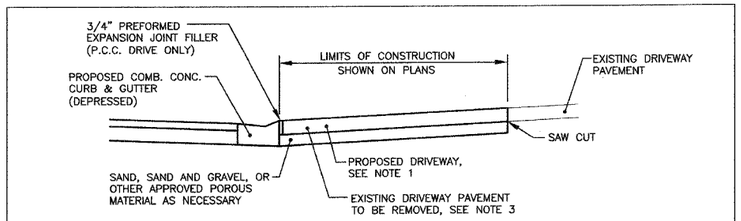
TREE ROOT PRUNING AND TEMPORARY FENCE DETAIL



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

PLAN SYMBOL (SE)



NOTE 1: THE PROPOSED DRIEWAY PAVEMENT SHALL CONSIST OF:

a) 8" CLASS PV PORTLAND CEMENT CONCRETE
2" SUB-BASE GRANULAR MATERIAL, TYPE B (INCLUDED) IF THE EXISTING DRIVEWAY IS P.C. CONCRETE

b) 2" BIT. CONC. SURFACE CSE. SUPER, MIX C N50
5" BIT. CONC. BASE CSE. SUPERPAVE. IF THE EXISTING DRIVEWAY IS BITUMINOUS (PAID FOR AS STABILIZED DRIVEWAYS, SUPERPAVE, 7").

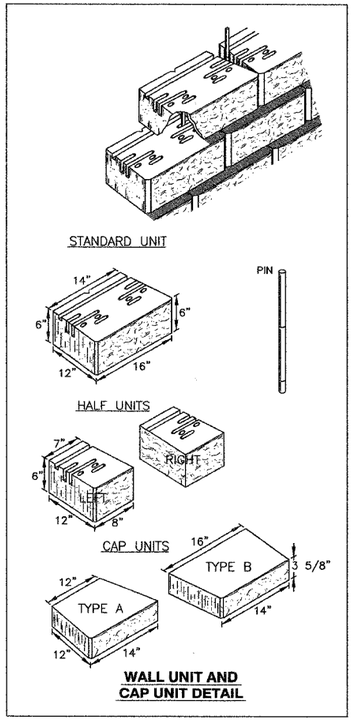
NOTE 2: THE SAND OR GRAVEL FOR THE SUBGRADE AND PREFORMED EXPANSION JOINT FILLER SHALL ALL BE CONSIDERED INCLUDED IN THE DRIVEWAY REPLACEMENT

NOTE 3:

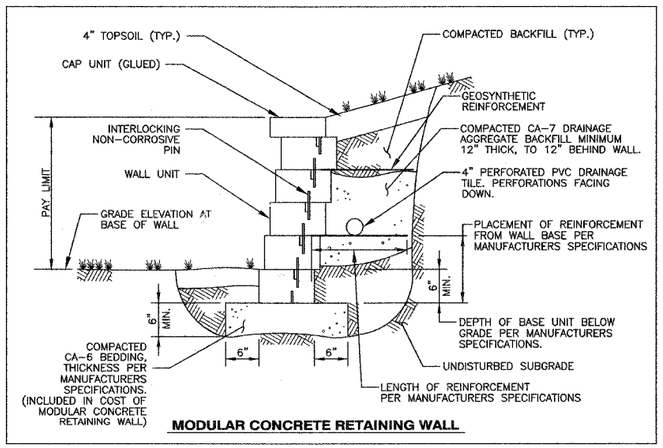
a) EXISTING P.C.C. DRIVEWAY PAVEMENT REMOVAL TO BE PAID FOR AS DRIVEWAY PAVEMENT REMOVAL.

b) EXISTING BITUMINOUS DRIVEWAY PAVEMENT REMOVAL TO BE PAID FOR AS DRIVEWAY PAVEMENT REMOVAL.

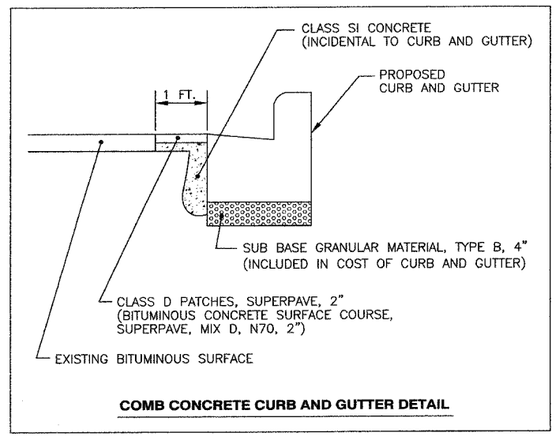
TYPICAL DRIVEWAY DETAIL



WALL UNIT AND CAP UNIT DETAIL



MODULAR CONCRETE RETAINING WALL

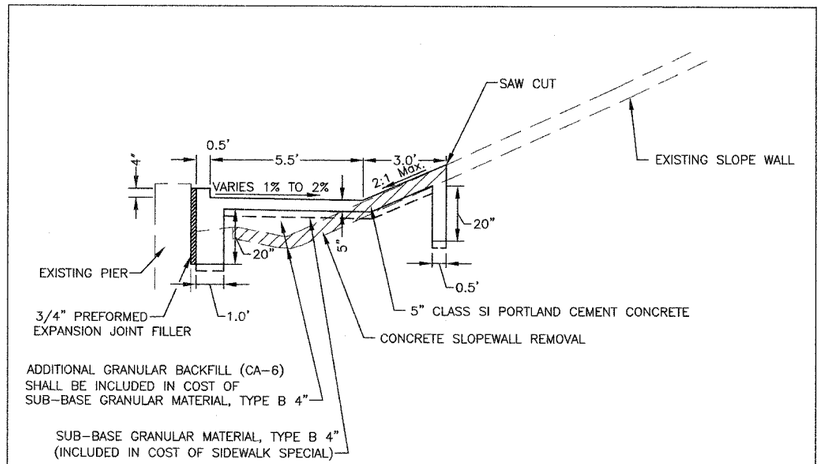


COMB CONCRETE CURB AND GUTTER DETAIL

DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF LISLE IL ROUTE 53 SIDEWALK IMPROVEMENTS	REVISIONS NO. DATE DESCRIPTION	CONSTRUCTION DETAILS	DRAWING NO. 30 OF 46
CHECKED BDH	SCALE NTS		The Arboretum Village			

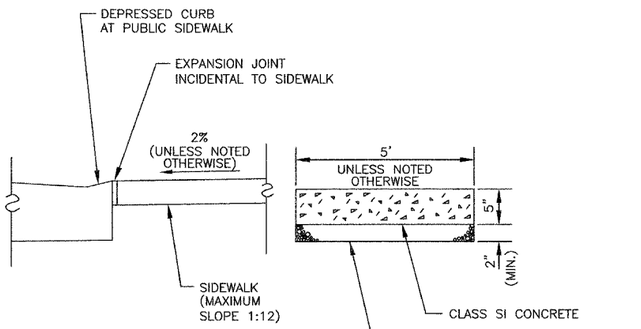
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	31
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83820



SIDEWALK SPECIAL DETAIL

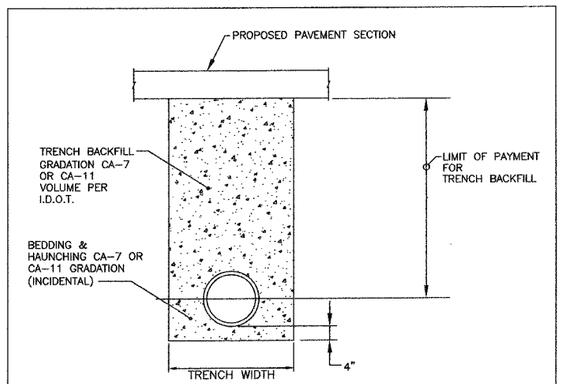
STA. 49+98 TO STA. 50+74
(OGDEN AVENUE BRIDGE)



NOTE:

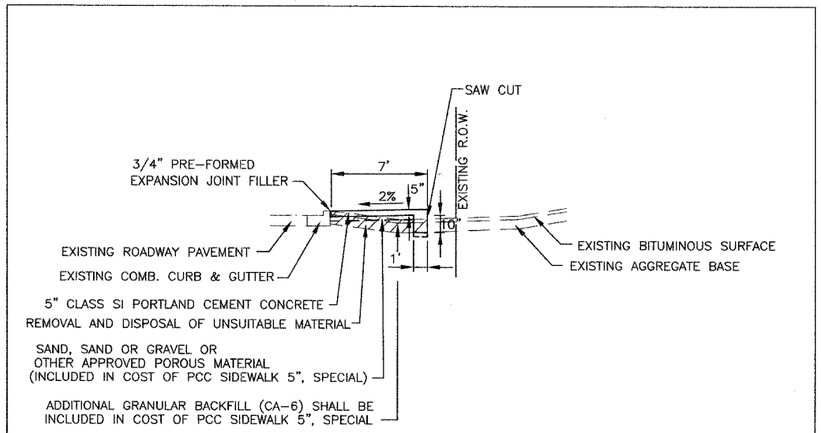
1. ALL REQUIRED EARTHWORK TO CONSTRUCT P.C.C. SIDEWALK SHALL BE PAID FOR SEPARATELY PER SECTIONS 202 & 204 OF THE STANDARD SPECIFICATIONS
2. AT ENTRANCES, THE SIDEWALK THICKNESS SHALL INCREASE TO 7", INCIDENTAL TO P.C.C. SIDEWALK 5"

P.C.C. SIDEWALK 5" DETAIL



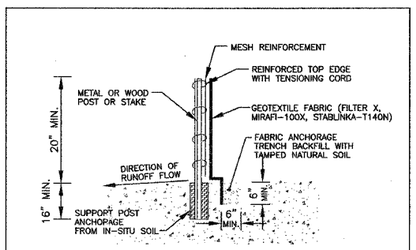
TRENCH WIDTH: MAX.=18"+O.D. WHEN TRENCH < 5'
MAX.=36"+O.D. WHEN TRENCH < 5'

STORM SEWER TRENCH DETAIL



PCC SIDEWALK 5", SPECIAL DETAIL

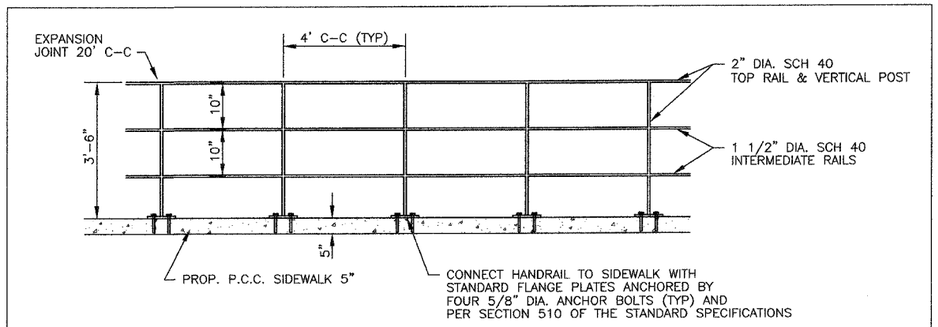
STA. 37+08 TO STA. 37+39
AND STA. 37+60 TO STA. 38+33



NOTES:

1. DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH WITH HOG RINGS, STEEL POSTS WITH TIE WIRES, WOOD POSTS WITH NAILS.
2. SILT FENCE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
3. PREFABRICATED SILT FENCE MAY BE USED. UNITS BY GEOFAB OR ENVIROFENCE.
4. MAXIMUM POST/STAKE SEPARATION = 10' C-C.

PERIMETER EROSION BARRIER



NOTE:
TOP AND INTERMEDIATE RAILS, VERTICAL POST, FLANGE PLATES AND ANCHOR BOLTS SHALL BE MADE OF GALVANIZED STEEL

PIPE HANDRAIL DETAIL

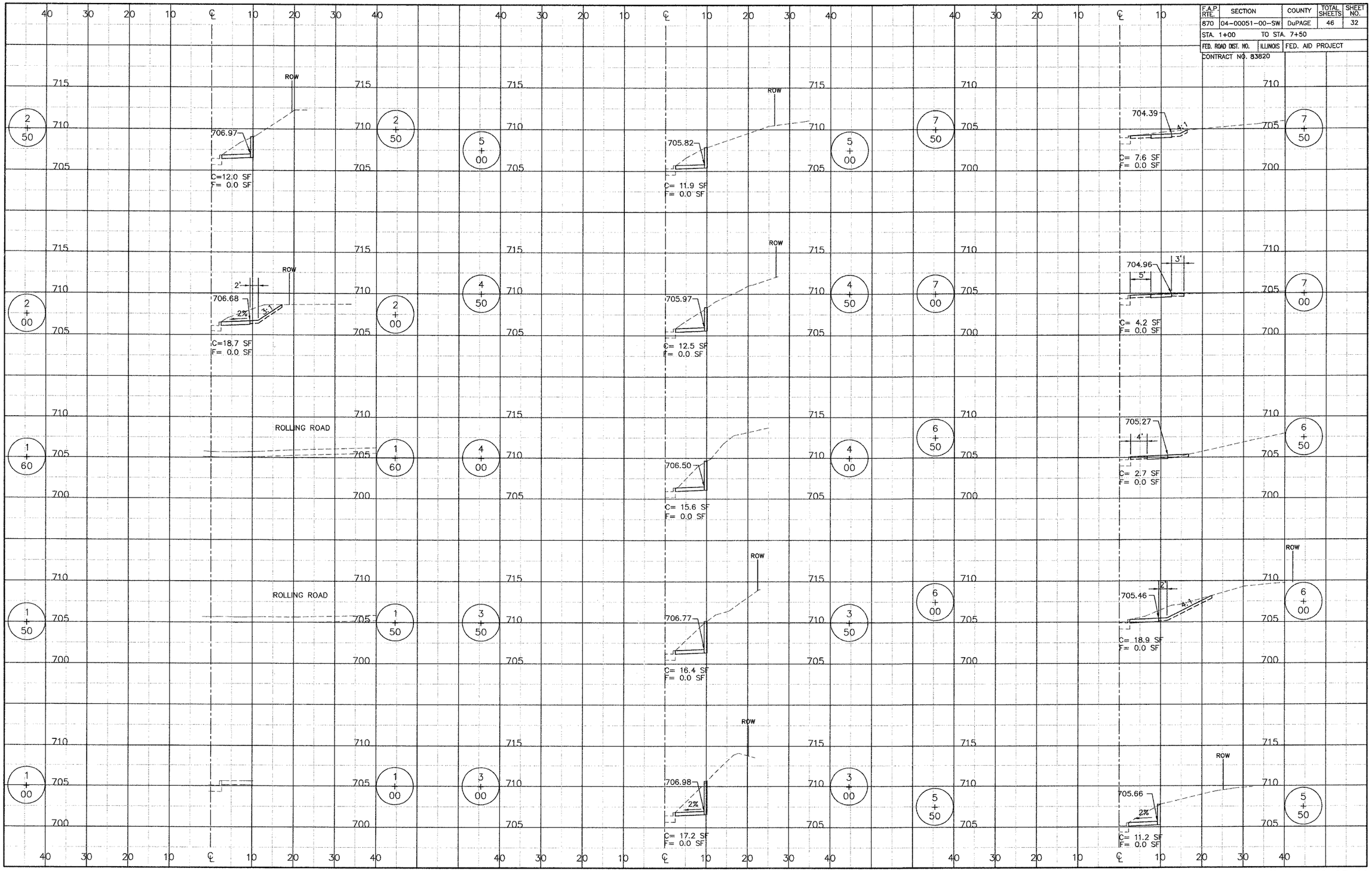
DRAWN SMP	DATE 9/21/05	JAMES J. BENES & ASSOCIATES, INC.	VILLAGE OF LISLE	CONSTRUCTION DETAILS	DRAWING NO.
CHECKED BDH	SCALE NTS	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	IL ROUTE 53 SIDEWALK IMPROVEMENTS		31 OF 46

The Arboretum Village

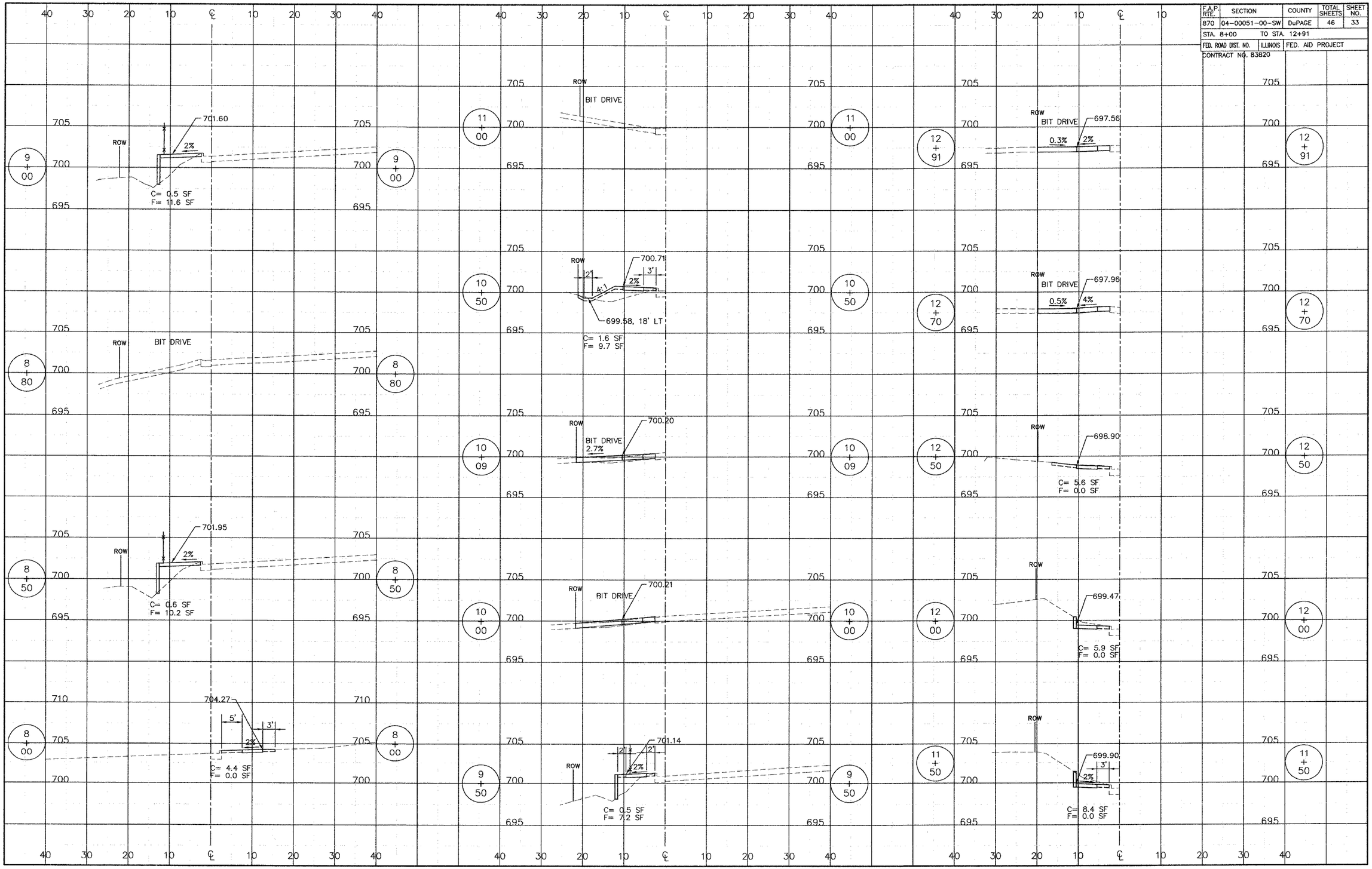
REVISIONS

NO.	DATE	DESCRIPTION

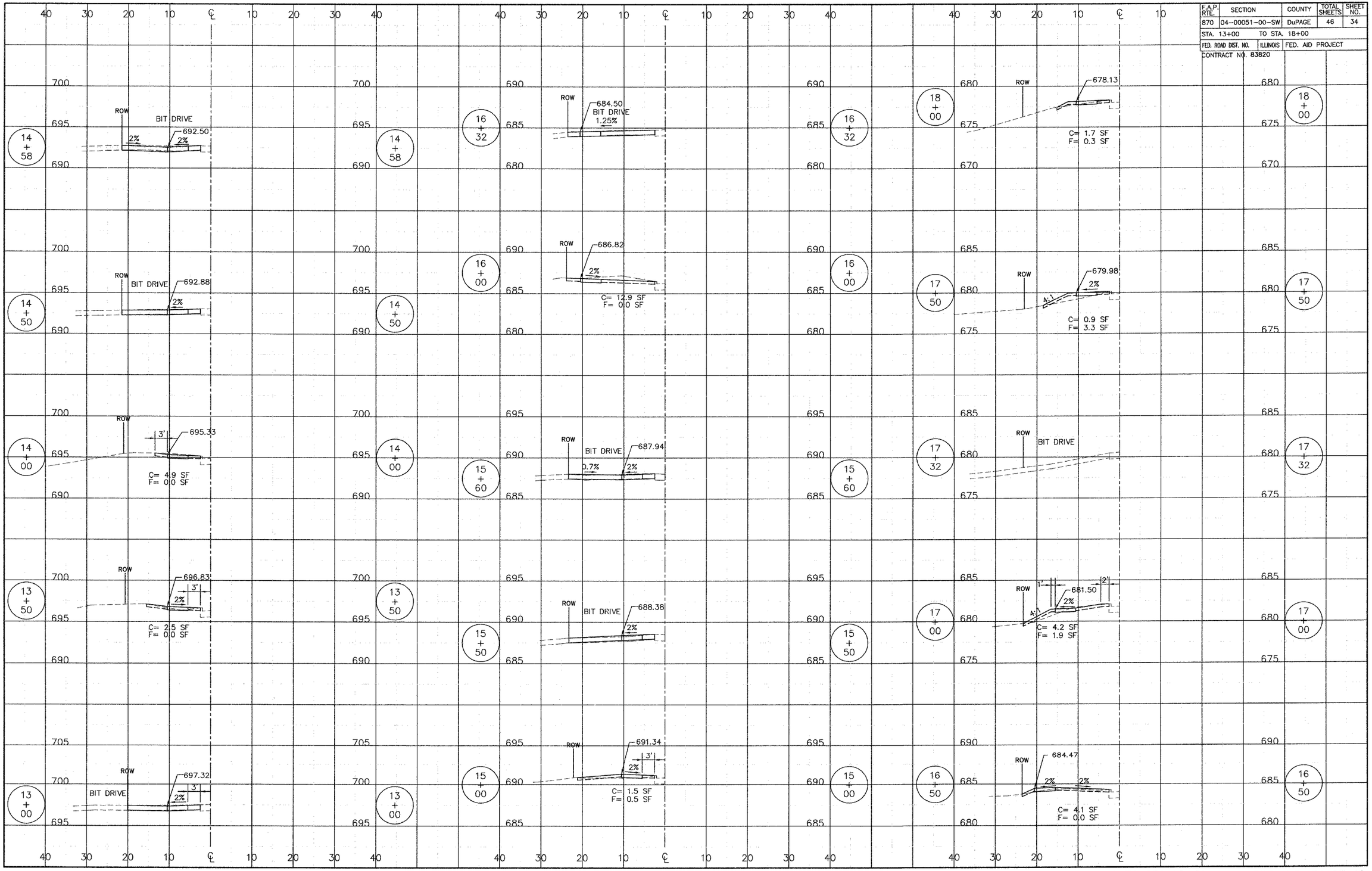
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	32
STA. 1+00	TO STA. 7+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



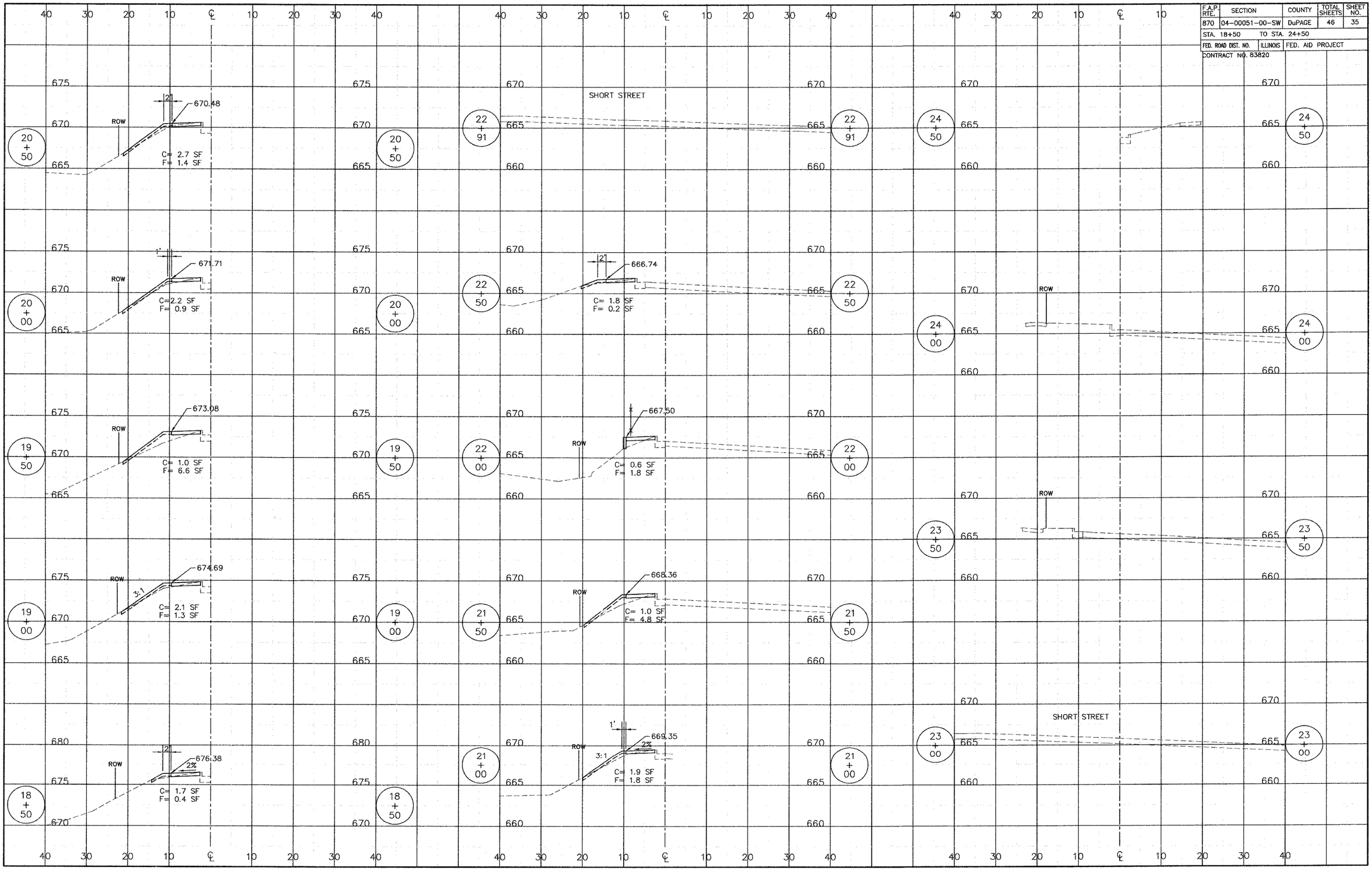
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	33
STA. 8+00	TO STA. 12+91			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



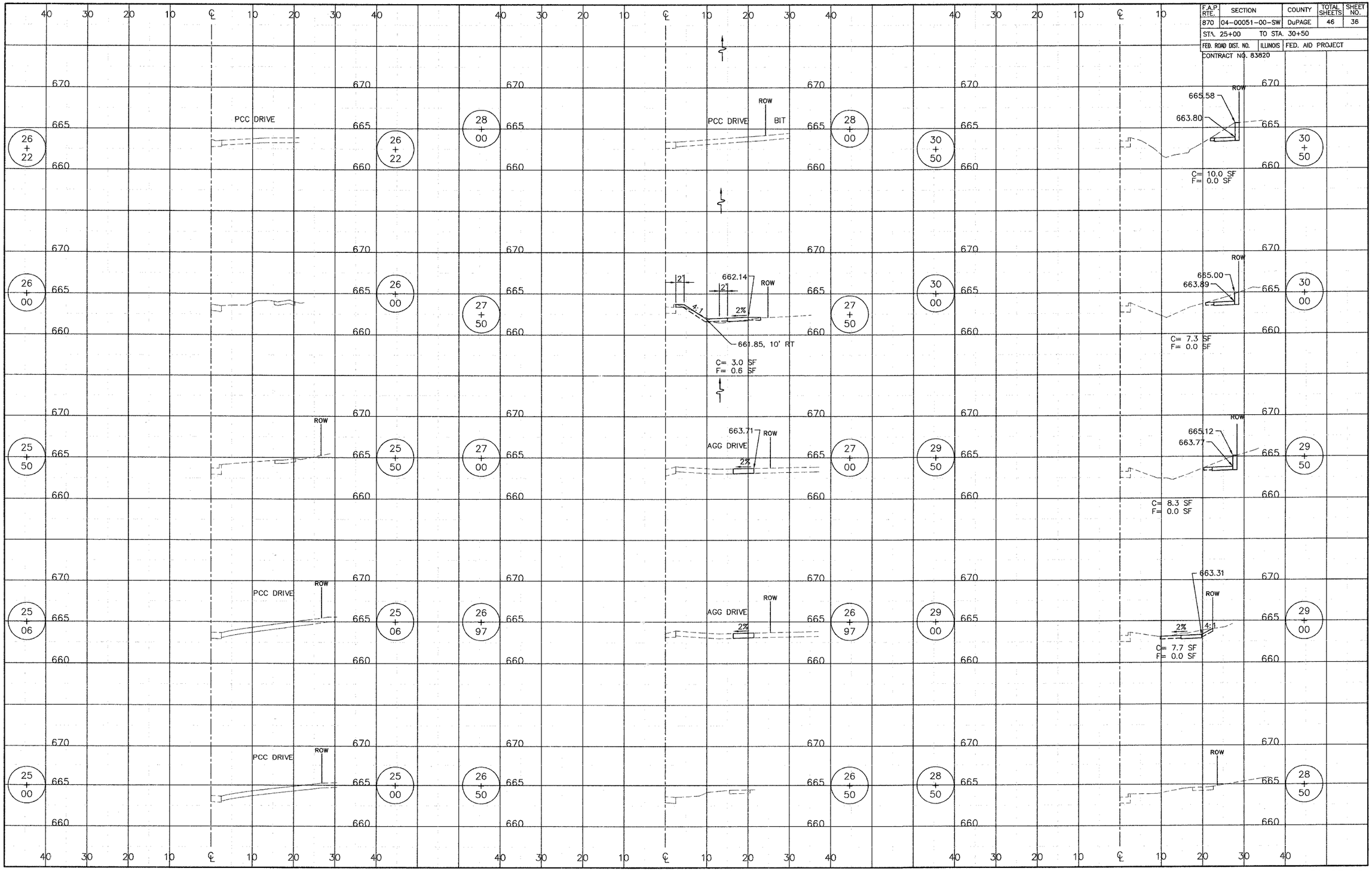
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	34
STA. 13+00	TO STA. 18+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



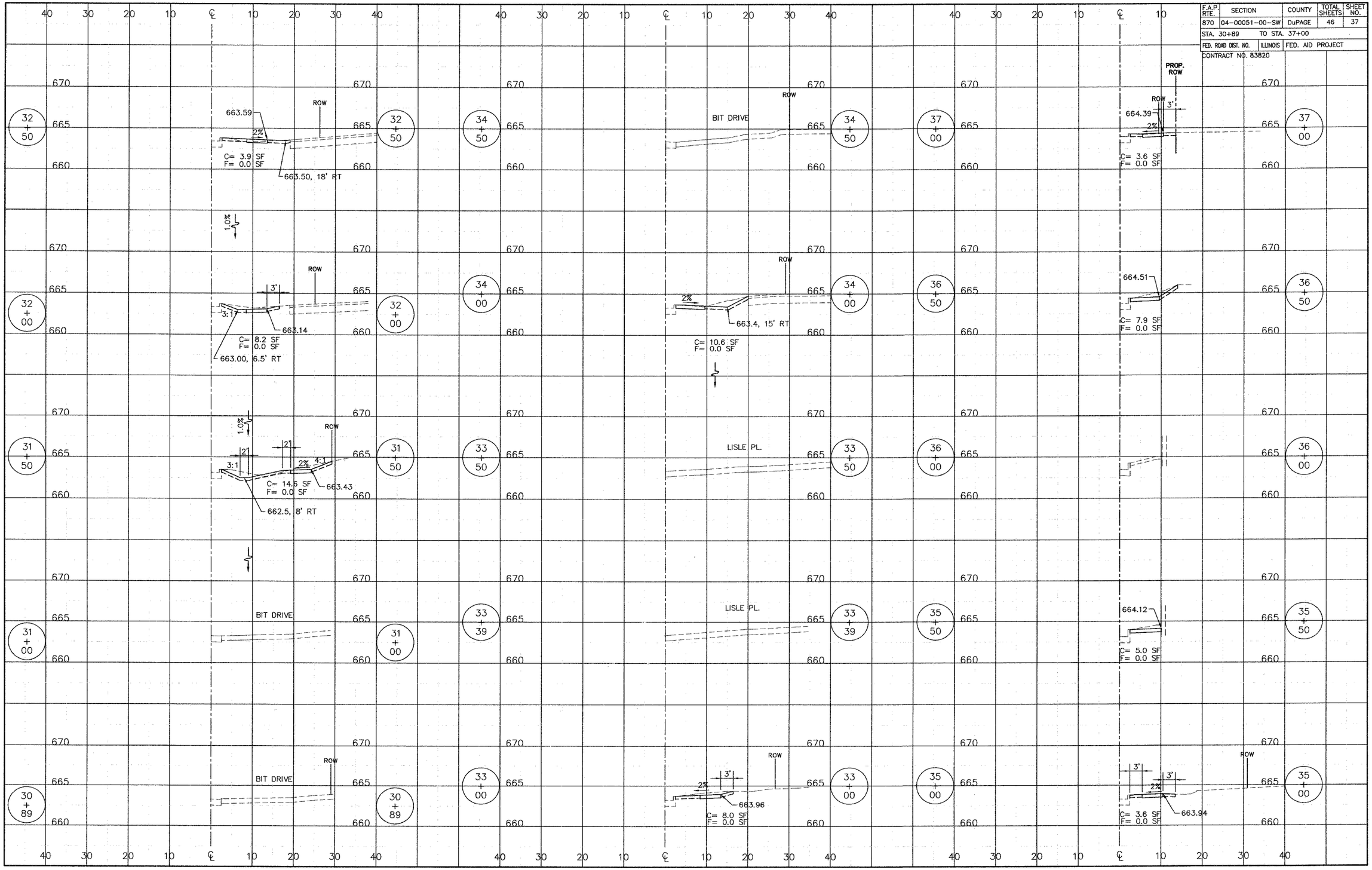
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	35
STA. 18+50	TO STA. 24+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



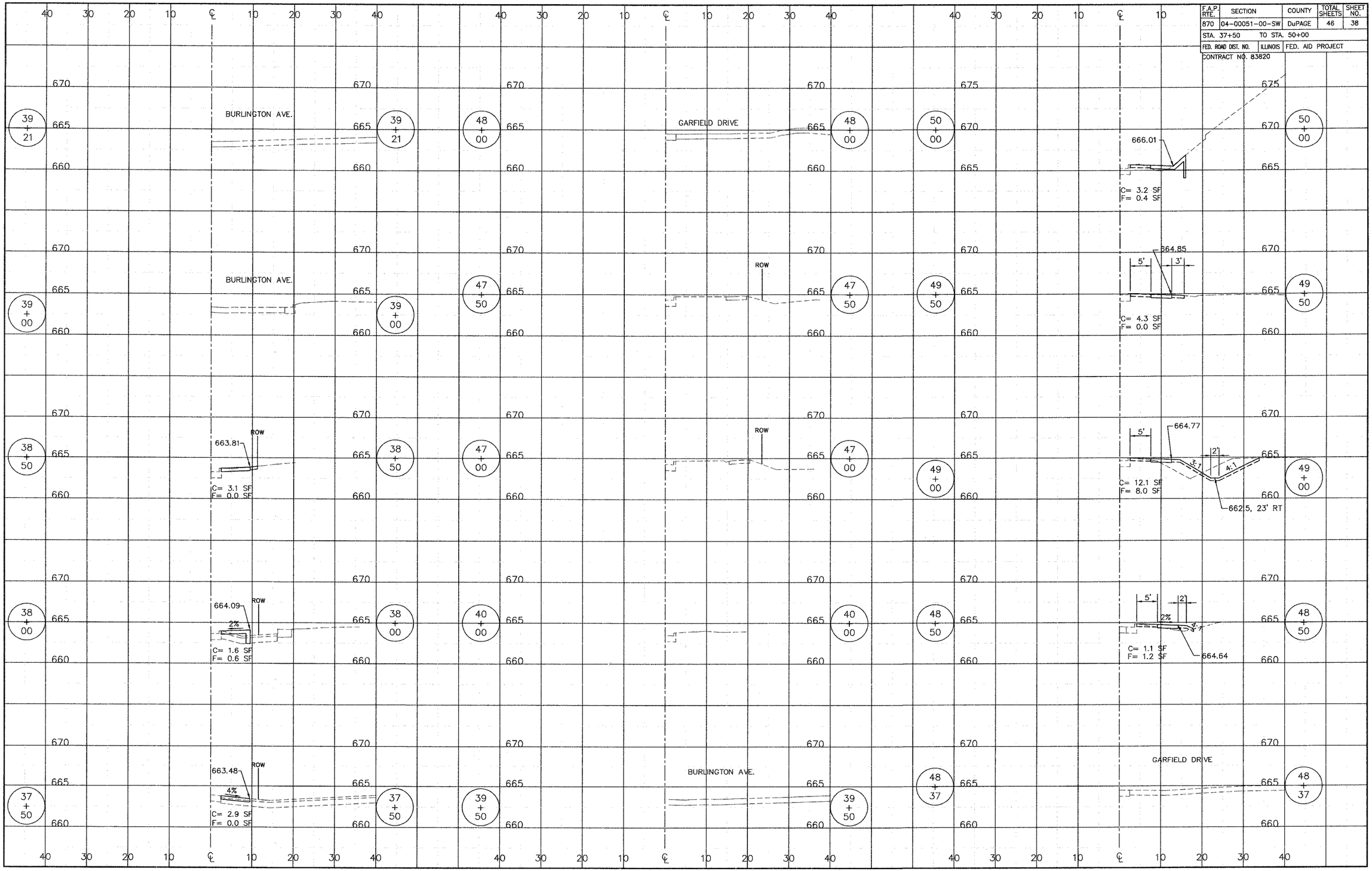
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	36
STA. 25+00	TO STA. 30+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	37
STA. 30+89	TO STA. 37+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	38
STA. 37+50	TO STA. 50+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	39
STA. 50+50	TO STA. 57+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				

52 + 50
666.81
C= 6.4 SF
F= 0.0 SF

52 + 00
666.64
3'
C= 5.2 SF
F= 0.0 SF

51 + 50
ROW
3'
666.23
C= 9.8 SF
F= 0.0 SF

51 + 00
666.18
2%
C= 0.9 SF
F= 3.8 SF

50 + 50
666.13
1.37%
C= 2.3 SF
F= 5.0 SF

55 + 00
2'
5'
4:1
667.41
ROW
C= 9.9 SF
F= 0.0 SF

54 + 50
SOUTHPORT AVENUE

54 + 00
668.20
3'
ROW
C= 3.9 SF
F= 0.0 SF

53 + 50
668.03
ROW
C= 1.2 SF
F= 1.2 SF

53 + 00
3'
3'
2%
667.15
C= 6.7 SF
F= 0.0 SF

C= 0.9 SF
F= 3.8 SF

57 + 50
668.80
5'
3'
ROW
C= 6.6 SF
F= 0.0 SF

57 + 00
668.89
ROW
3:1
C= 2.6 SF
F= 3.3 SF

56 + 50
BRIDGE

56 + 00
667.61
2'
ROW
4:1
3:1
667.0
C= 4.1 SF
F= 3.7 SF

55 + 50
1.0%
2'
5'
667.60
ROW
4:1
2%
667.0
C= 2.7 SF
F= 3.8 SF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	40
STA. 58+00	TO STA. 63+09			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				

59+50: 669.68, ROW; C= 4.7 SF, F= 0.0 SF

61+50: 667.64, ROW; C= 9.2 SF, F= 0.0 SF

63+09: 668.15, BIT DRIVE, 2%, ROW

59+00: 669.82, 7', 2%, ROW; C= 3.9 SF, F= 0.0 SF

61+00: 667.86, ROW; C= 6.2 SF, F= 0.0 SF

63+00: 668.06, BIT DRIVE, 2%, ROW

58+50: BIT DRIVE, ROW

60+50: 668.16, 2', 2', ROW, 4:1, 2%; C= 8.7 SF, F= 0.0 SF

62+50: 667.59, ROW, 2%, 667.44, 10' RT; C= 5.8 SF, F= 0.0 SF

58+35: BIT DRIVE, ROW

60+00: BIT DRIVE, ROW

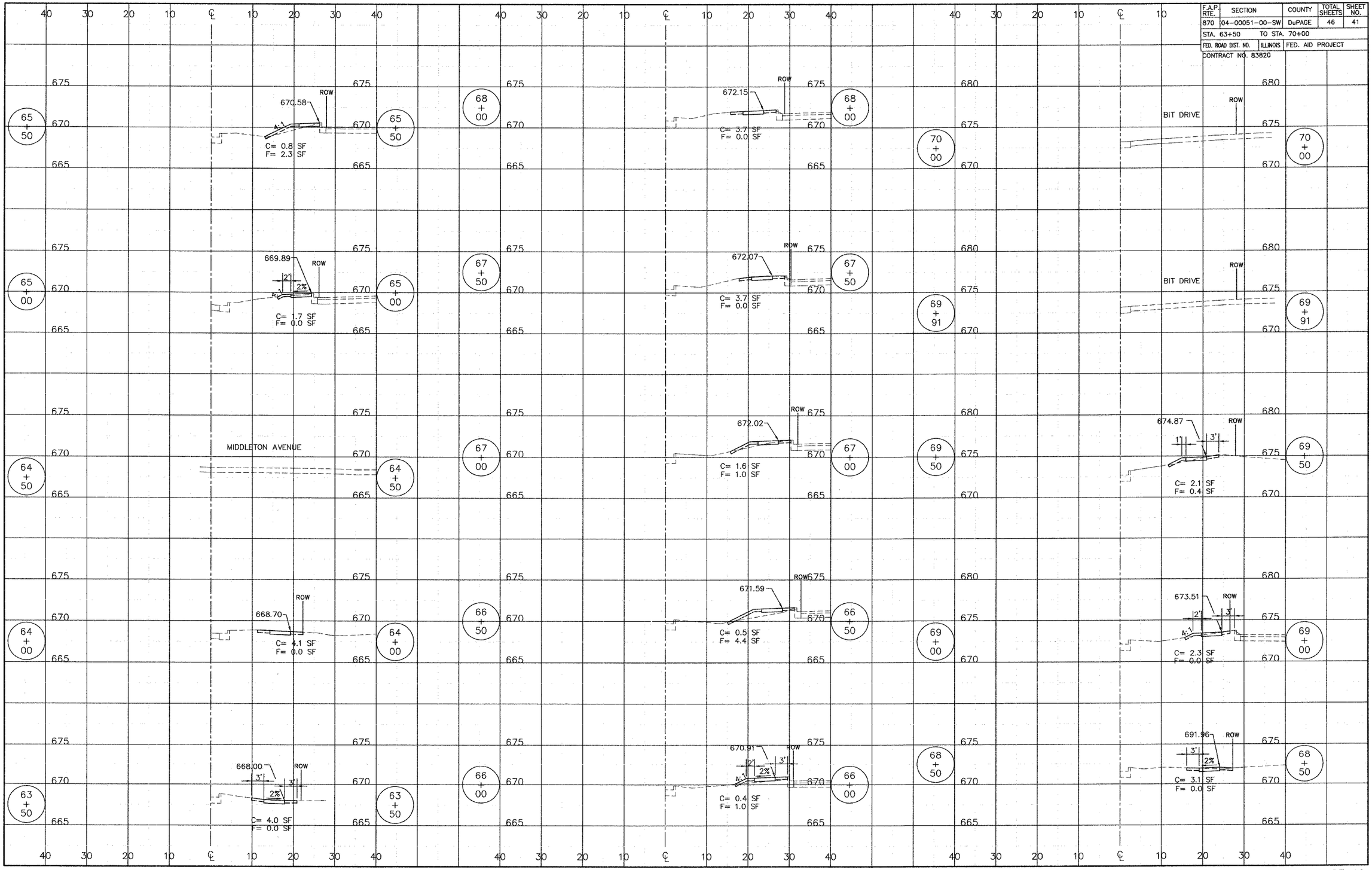
62+29: BIT DRIVE, ROW, 2%

58+00: 6', 3', ROW, 2%; C= 4.8 SF, F= 0.0 SF, 668.86

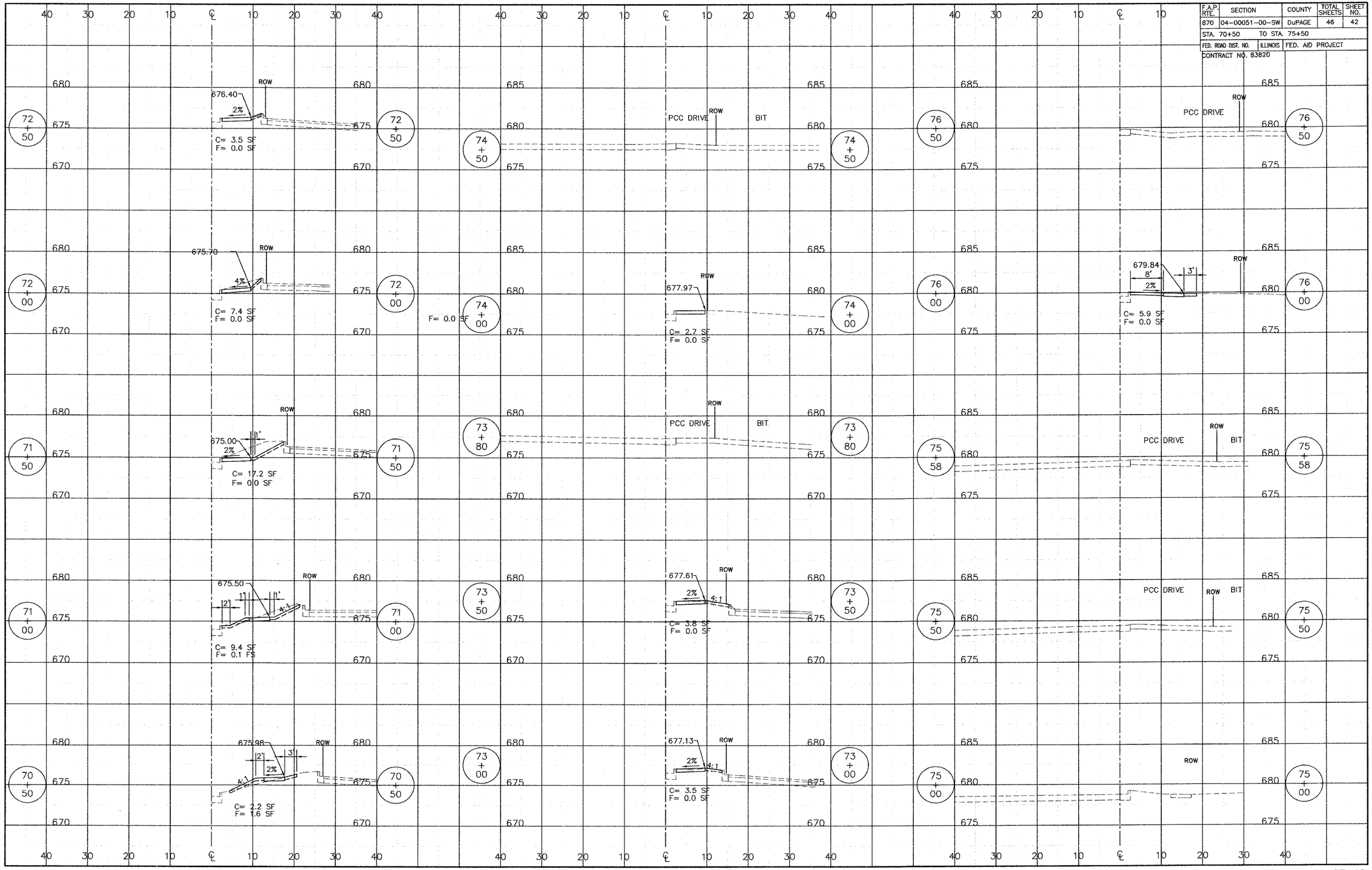
59+88: BIT DRIVE

62+00: 667.71, 2', ROW, 2', 4:1, 2%; C= 10.0 SF, F= 0.0 SF

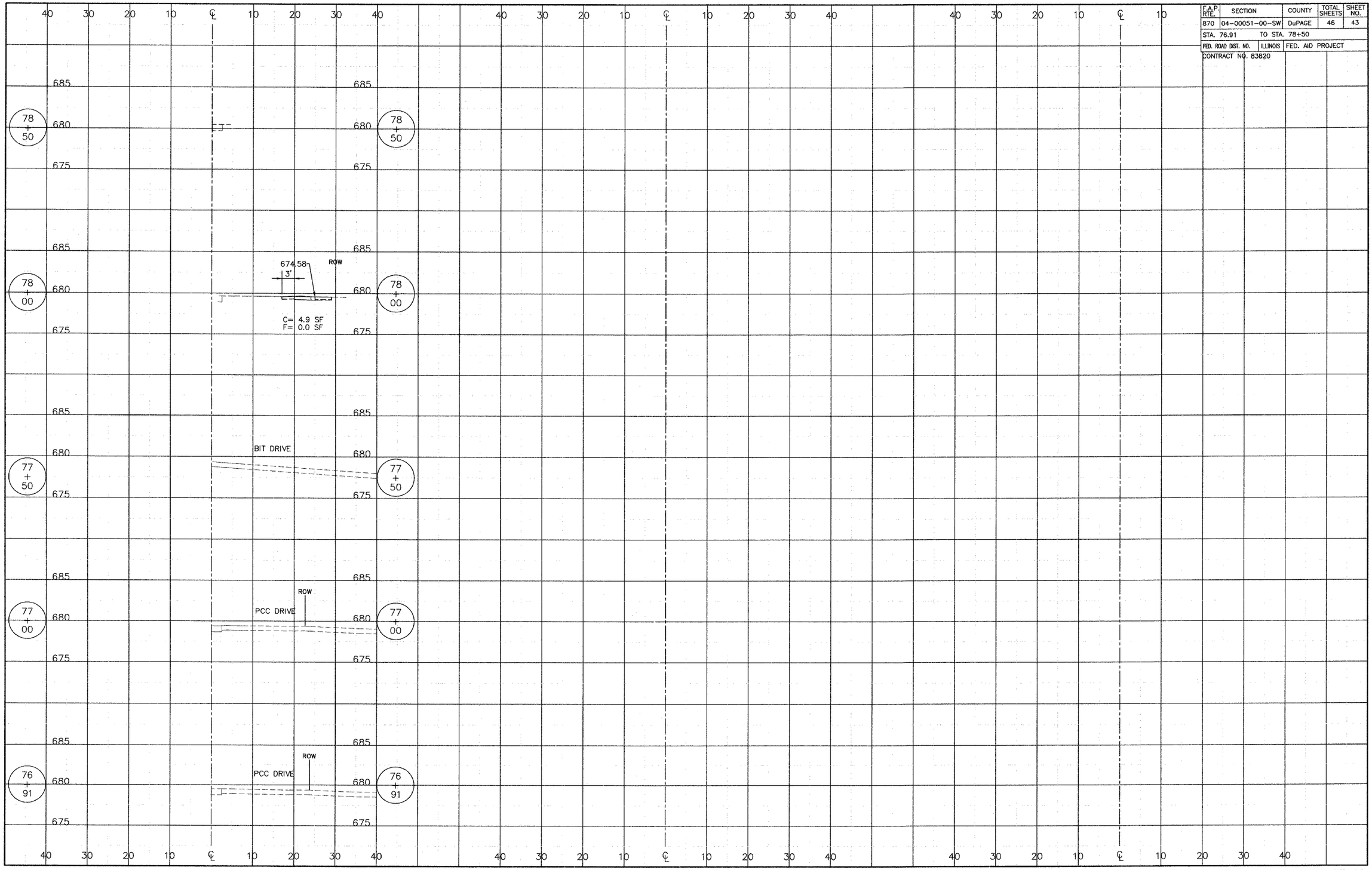
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	41
STA. 63+50	TO STA. 70+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



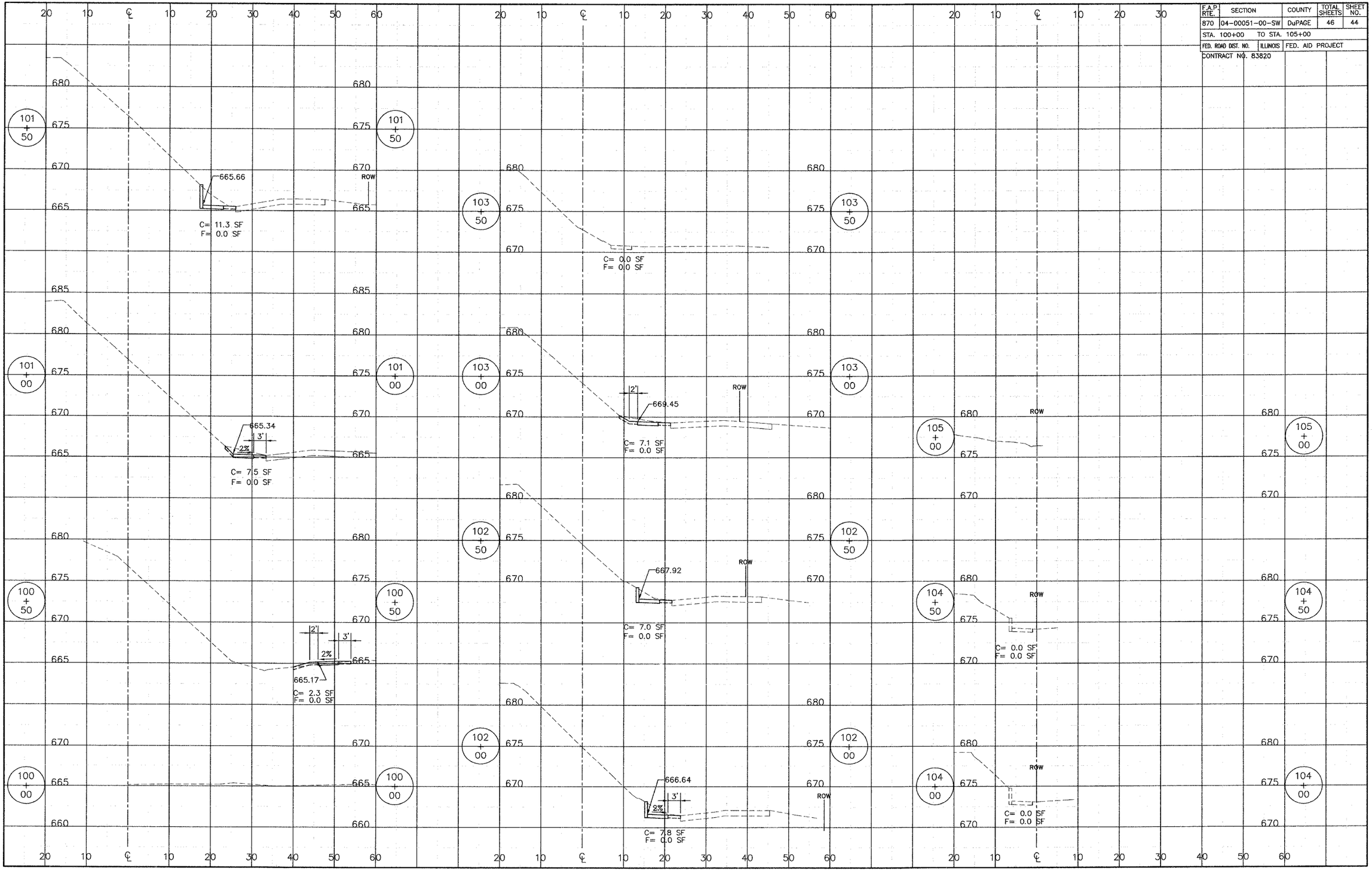
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	42
STA. 70+50	TO STA. 75+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



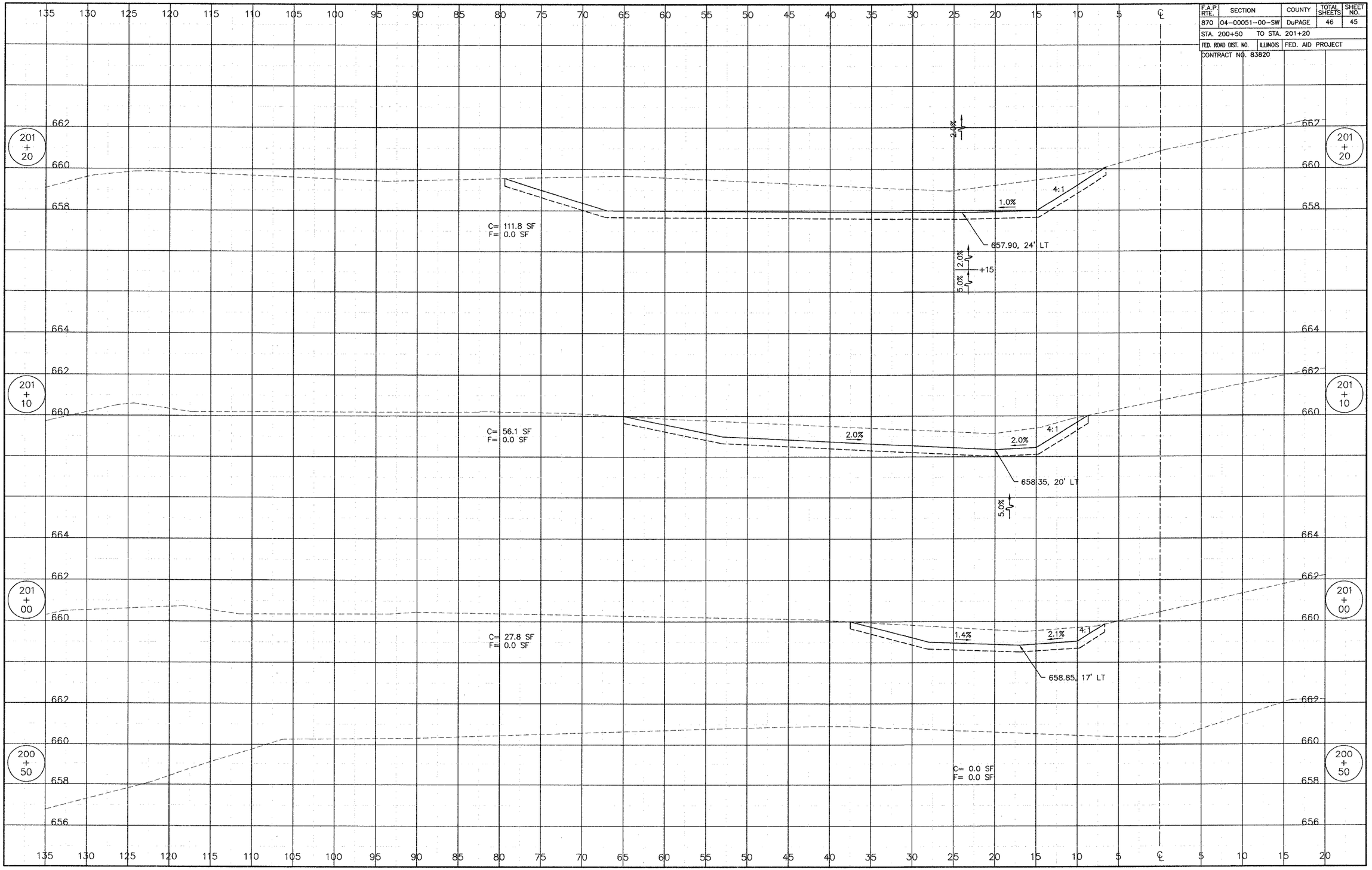
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	43
STA. 76.91	TO STA. 78+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	44
STA. 100+00	TO STA. 105+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	45
STA. 200+50	TO STA. 201+20			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	04-00051-00-SW	DuPAGE	46	46
STA. 201+35	TO STA. 201+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83820