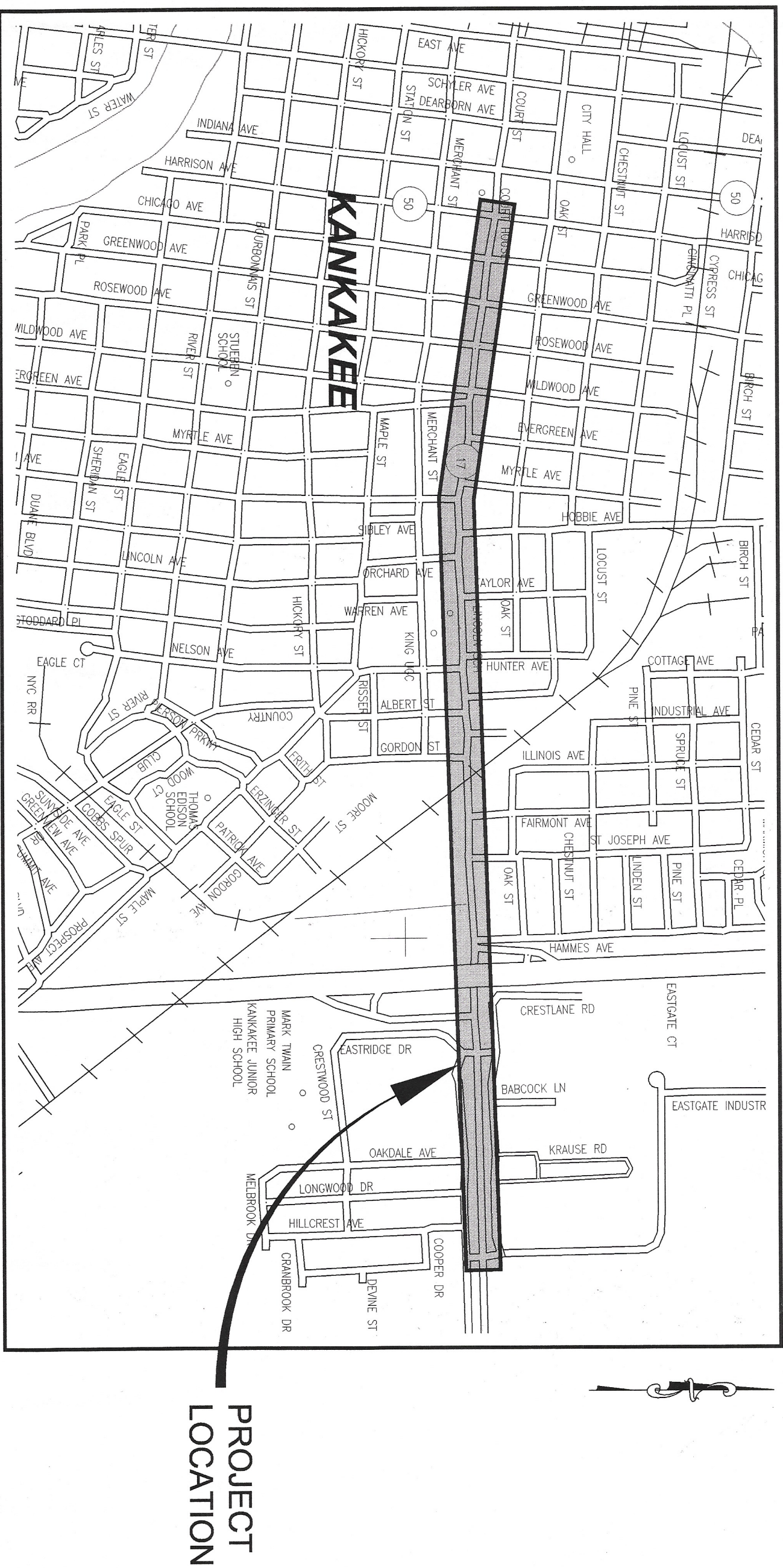


GENERAL NOTES

CITY OF KANKAKEE INFRASTRUCTURE *A5. built*

NEW ORNAMENTAL LIGHTING

COURT STREET FROM HARRISON AVENUE TO EASTGATE INDUSTRIAL PARK
KANKAKEE, ILLINOIS



LOCATION MAP

NOT TO SCALE

SUMMARY OF QUANTITIES

ITEM	UNITS	QUANTITY
EARTH EXCAVATION	CU YARDS	735.5 2000' @
INCIDENTAL BITUMINOUS CONCRETE	SQ YARDS	233' 8.3 32 366' 0.7
PCC DRIVEWAY PAVEMENT 6" INCLUDING 4" AGG BASE	SO YARDS	0 16' 366' 4
PCC SIDEWALK 5" INCLUDING 2" AGG BASE	SO FROOT	159' 9.7 1220
DRIVEWAY REMOVAL	SO YARDS	3.0 1.8 3.44
SIDWALK REMOVAL	SO FROOT	197' 2.2 2260
CONDUIT - PUSHED 3'-1/2" DIA GALVANIZED STEEL	FOOT	23.60 2881 539.1
CONDUIT PUSHED 3'-1/2" DIA GALVANIZED STEEL	FOOT	9.50 386 164.1
LIGHT POLE FOUNDATION - SPOBEX	EACH	1.0 62 42.0
LIGHT POLE FOUNDATION - ORNAMENTAL	EACH	4.0 84
ORNAMENTAL LIGHT COMPLETE SINGLE HEAD	EACH	4.0 84
SPOBEX LIGHT COMPLETE DUAL HEAD	EACH	3.0 29
SPOBEX LIGHT COMPLETE DUAL HEAD	EACH	3.0 29
SIGNAL CONTROLLER (NEW)	EACH	4.0 47
UTILITY POWER DROP	EACH	5.0 5
HANDPOLES	EACH	12.0 1
EXISTING STREET LIGHT REMOVAL	EACH	2.5 75
TOPSOIL - 6"	CU YARDS	1893.22 487
SEEDING/MATTING	SO FOOT	1093.9 6100
POLE BASE REMOVAL	EACH	2.3 73
PATTERNED RED BRICK PCC CONCRETE	SO FOOT	3351.35 3665
CORRA HEAD ONLY REMOVAL	EACH	0 3
SIGN AND SIGN POST REMOVAL AND RESET	EACH	0 26
TRAFFIC CONTROL COMPLETE	LUMP SUM	1.0 1
HANDICAP RAMP	EACH	1.2 24
CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	490.5 388
EXISTING CONTROLLER A TIE IN	EACH	1.0 1
CONDUIT 3" DIA.	FOOT	215.8 243
ADA CURB CUT	FOOT	0 200
TRENCH BACKFILL	FOOT	0 200
REMOVE EXISTING CONTROLLER	EACH	3.0 4

TAG	ITEM	UNITS	QUANTITY
1	UNIT DUCT 2.86 XLP 2.82 XLP 1.82 GROUND, 1-1/2" POLYETHYLENE	FOOT	308.1 2048
2	UNIT DUCT 2.86 XLP 3.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	316.6 3748
3	UNIT DUCT 2.86 XLP 5.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	3.0 32
4	UNIT DUCT 2.86 XLP 6.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	3.0 32
5	UNIT DUCT 2.86 XLP 2.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	43.65 689
6	UNIT DUCT 2.86 XLP 3.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	37.60 2789
7	UNIT DUCT 2.86 XLP 4.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	55.80 592
8	UNIT DUCT 2.86 XLP 5.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	114.0 1149
9	UNIT DUCT 2.86 XLP 6.82 XLP 1.82 GROUND, 2" POLYETHYLENE	FOOT	0
10	UNIT DUCT 2.44 XLP 5.82 XLP 1.82 GROUND, 2-1/2" POLYETHYLENE	FOOT	1860 1860
11	UNIT DUCT 2.44 XLP 6.82 XLP 1.82 GROUND, 2-1/2" POLYETHYLENE	FOOT	300 225
12	UNIT DUCT 2.44 XLP 8.82 XLP 1.82 GROUND, 2-1/2" POLYETHYLENE	FOOT	
13	UNIT DUCT 2.46 XLP 1.86 GROUND, 1-1/4" POLYETHYLENE	FOOT	

2 1/2" @ 57' LAMP ATTACHED TO STRUCTURE
 400GR PHOS LIGHT 400GRPHOS LIGHT COMP
 INSTANT EXTRA COMPACT 117000 HOLE
 SEAL Coat Coat Biv AT SALVADOR Army

APPROVED _____, 20 ____

PASSED _____, 20 ____

MAYOR, CITY OF KANKAKEE

DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

LEGEND

- | | |
|---|---|
|  | EXIST. POWER POLE |
|  | EXIST. GUY WIRE |
|  | EXIST. STREET LIGHT |
|  | EXIST. POWER POLE W/ STREET LIGHT |
|  | EXIST. STREET LIGHT WIRING JUNCTION BOX |
|  | EXIST. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE |
|  | EXIST. TRAFFIC SIGNAL HEAD W/ BACKPLATE |
|  | EXIST. TRAFFIC MAST ARM W/O LIGHT |
|  | EXIST. TRAFFIC SIGNAL |
|  | EXIST. TRAFFIC CONTROLLER CABINET |
|  | EXIST. TRAFFIC SIGNAL HANDHOLE |
|  | EXIST. TELEPHONE PEDESTAL |
|  | EXIST. HYDRANT |
|  | EXIST. WATER VALVE |
|  | EXIST. WATER METER |
|  | EXIST. BUFFALO BOX |
|  | EXIST. MANHOLE |
|  | EXIST. INLET |
|  | EXIST. VALVE |
|  | EXIST. SIGN |
|  | EXIST. STOP SIGN |
|  | EXIST. STREET SIGN |
|  | EXIST. BUSH |
|  | EXIST. TREE |
|  | EXIST. STREET LIGHT - ORNAMENTAL |
|  | NEW STREET LIGHT - ORNAMENTAL |
|  | NEW STREET LIGHT - COBRA HEAD |
|  | NEW STREET LIGHT NO. |
|  | CONTROLLER & CIRCUIT NO. (RECEPT) |
|  | CONTROLLER & CIRCUIT NO. (LIGHTS) |
|  | UNIT DUCT TAG NO. |

INDEX OF SHEETS

1. COVER SHEET
- 2.-10. COURT STREET (ORNAMENTAL LIGHTING PLAN)
11. BLOCK DIAGRAM
12. CONTROLLER DETAILS & UNIT DUCT SCHEDULE
13. CONTROLLER DETAILS
- 14-16. CONSTRUCTION DETAILS

REVISIONS

<big>REVISIONS</big>					
NO.	DATE	BY	GENERAL DESCRIPTION	SHEETS CHANGED	
1	4/20/07	NBO	PER NOM ENGINEERING	ALL	
2	7/16/07	NBO	PER IDOT	ALL	
3	8/15/07	NBO	PER DOT	16	
4	9/4/07	NBO	PER NOKA ENGINEERING	ALL	
5	10/14/07	NBO	PER IDOT	12,13,15,16	
6	12/3/07	NBO	PER IDOT	ALL	

COVER SHEET

COVER SHEET	
DATE:	11/29/06
SCALE:	N/A
DRAWN BY:	NRD
CHECKED BY:	RJB
JOB NO. E03186	SHEET 1
FILE NO.	OF 16

TYSON
ENGINEERING,
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136

INC.

**367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406**

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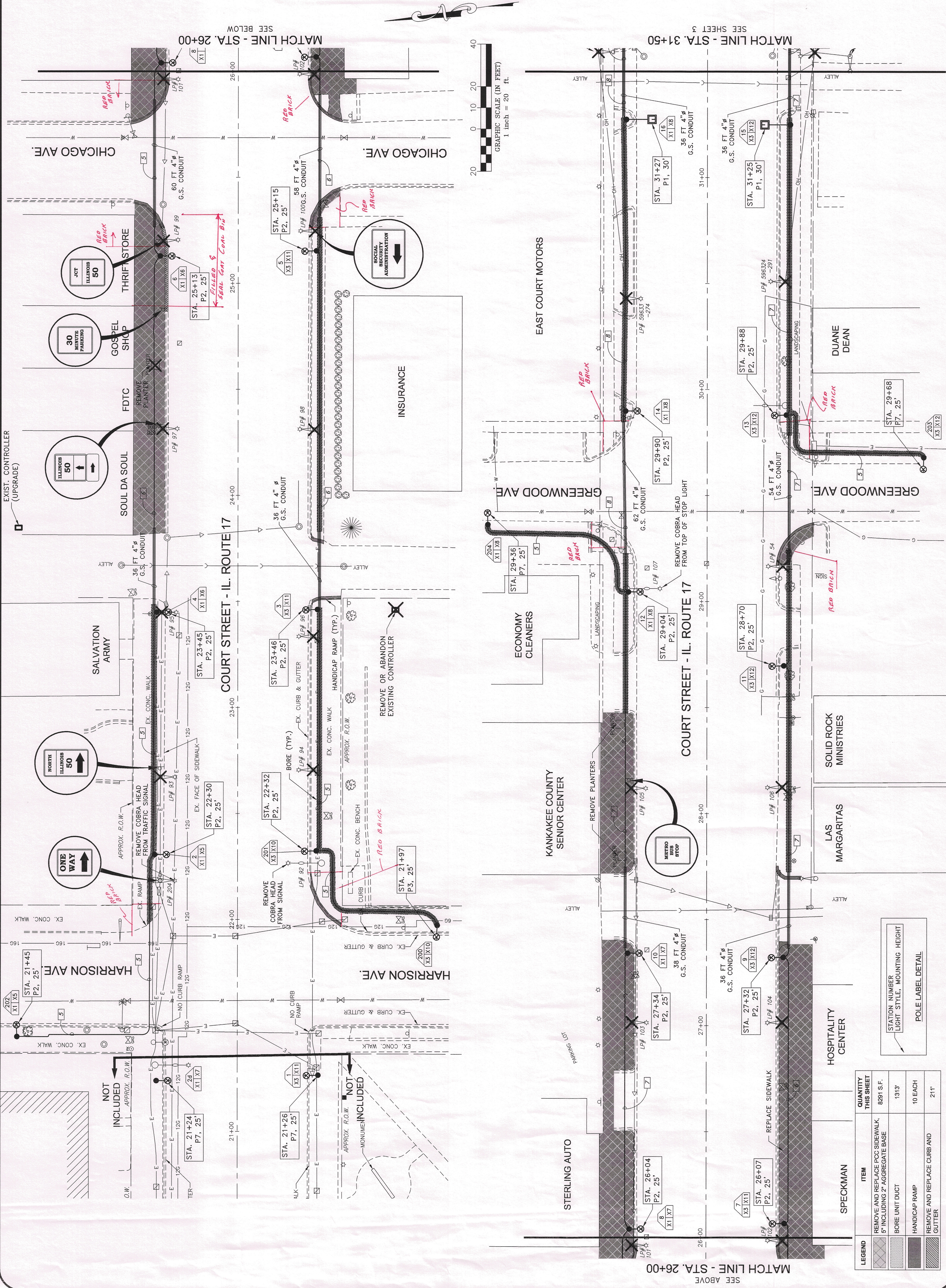
REVISIONS

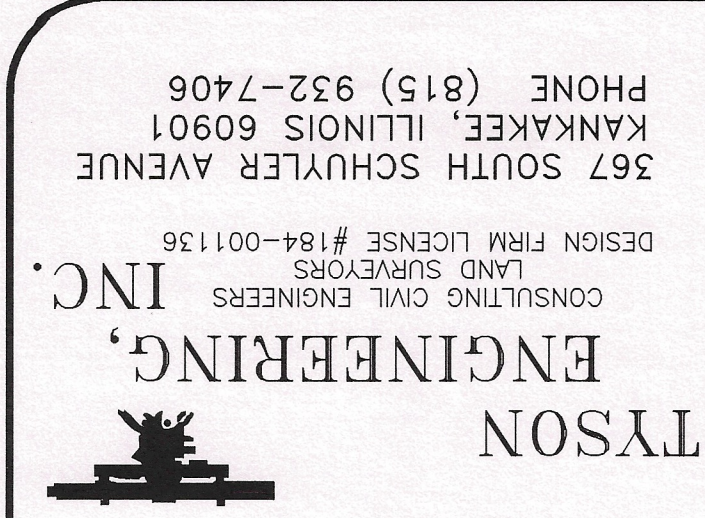
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2	7/16/07	NRD	PER IDOT
4	9/4/07	NRD	PER NOVA ENG
6	12/3/07	NRD	PER IDOT

CITY
OF
KANKAKEE

NEW ORNAMENTAL LIGHTING

COURT STREET FROM HARRISON AVE TO EASTGATE INDUSTRIAL PARK





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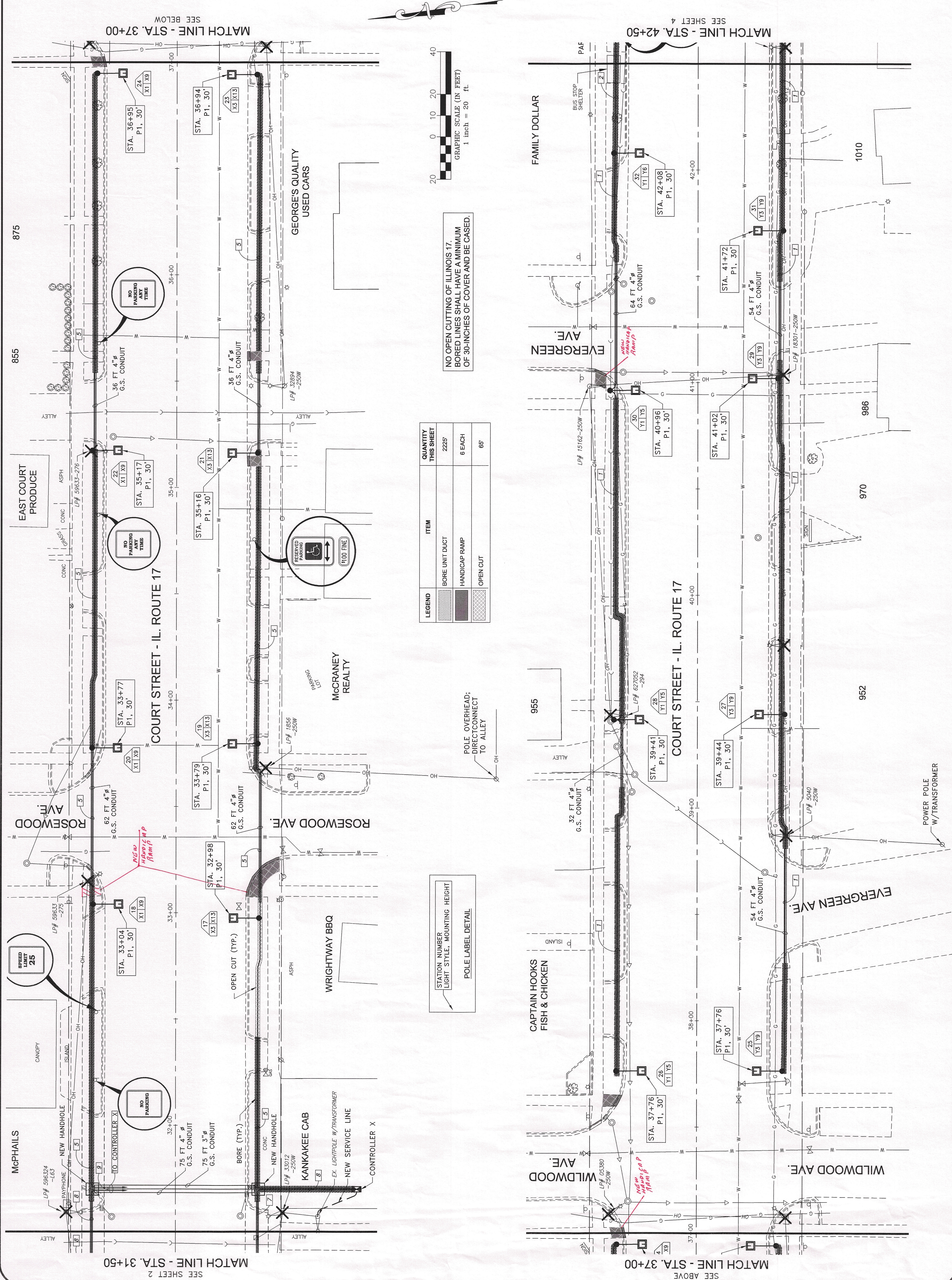
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2	7/16/07	NRD	PER IDOT	
4	9/4/07	NRD	PER NOVA ENG	
6	12/3/07	NRD	PER IDOT	

CITY OF KANKAKEE

**PROPOSED
ORNAMENTAL LIGHTING**

COURT STREET
STA. 31+50 TO STA. 42+50

DATE:	11/29/06	JOB NO. E05168
SCALE:	HORIZ.: 1"=20' VERT.: N/A	FILE NO.
DRAWN BY:	NRD	SHEET 3
CHECKED BY:	RJB	OF 16



LEGEND	ITEM	QUANTITY THIS SHEET
	BORE UNIT DUCT	2225'
	HANDICAP RAMP	6 EACH
	OPEN CUT	65'

NO OPEN CUTTING OF ILLINOIS 17.
BORED LINES SHALL HAVE A MINIMUM
OF 30-INCHES OF COVER AND BE CASED.

POLE OVERHEAD:

ATION NUMBER
IGHT STYLE, MOUNTING HEIGHT
POLYURETHANE DETAIL

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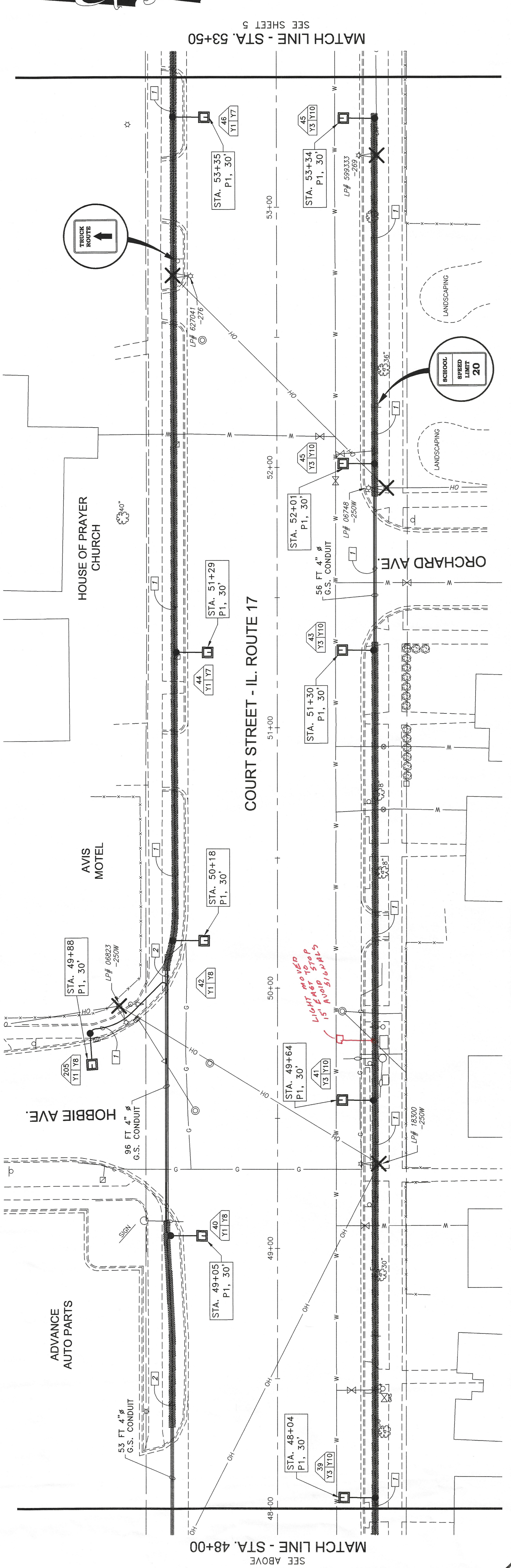
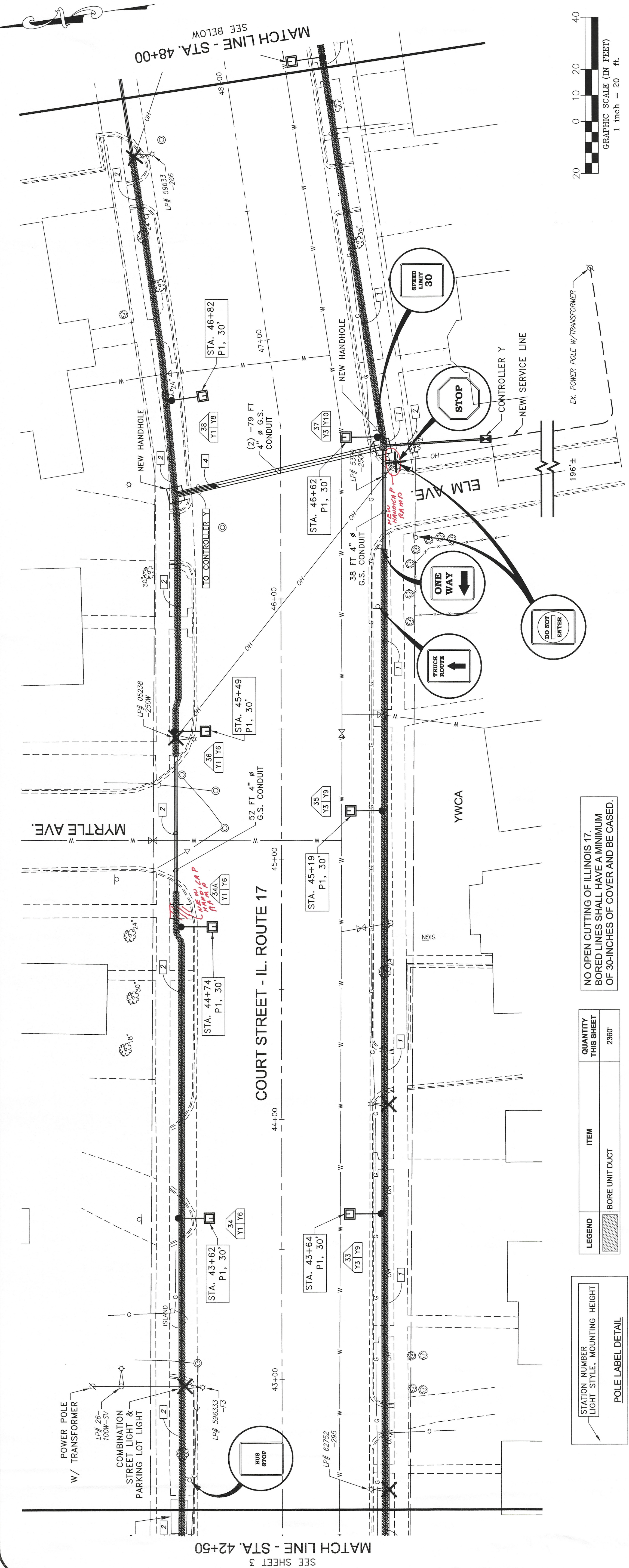
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NO.	DATE	BY	DESCRIPTION
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2	7/16/07	NRD	PER IDOT
4	9/4/07	NRD	PER NOVA ENG
6	12/3/07	NRD	PER IDOT

CITY OF KANKAKEE

PROPOSED
ORNAMENTAL LIGHTING
COURT STREET FROM HARRISON AVE
TO EASTGATE INDUSTRIAL PARK

COURT STREET
STA. 42+50 TO STA. 53+50

DATE:	11/29/06	JOB NO.:	E05168
SCALE:	HORIZ.: 1"=20'	FILE NO.:	
DRAWN BY:	NRD	SHEET	4
CHECKED BY:	RJB	OF 16	



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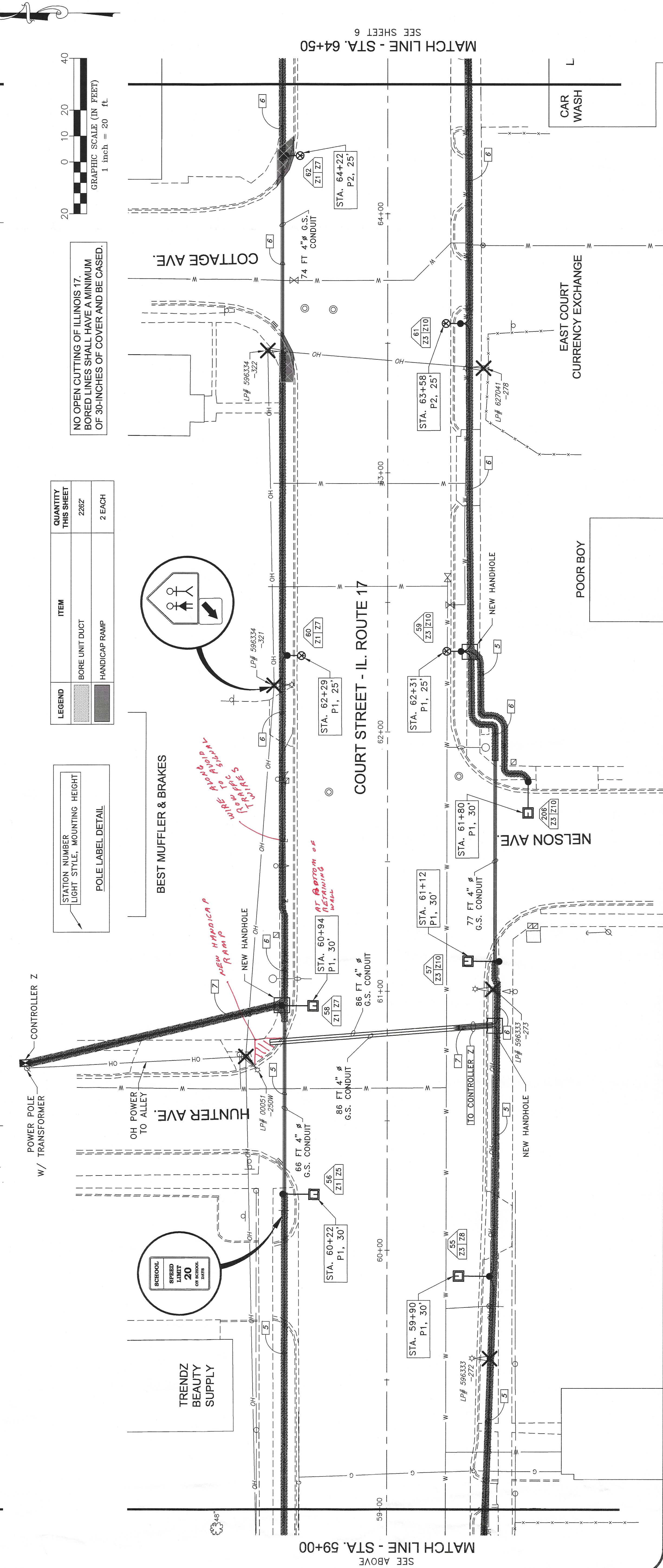
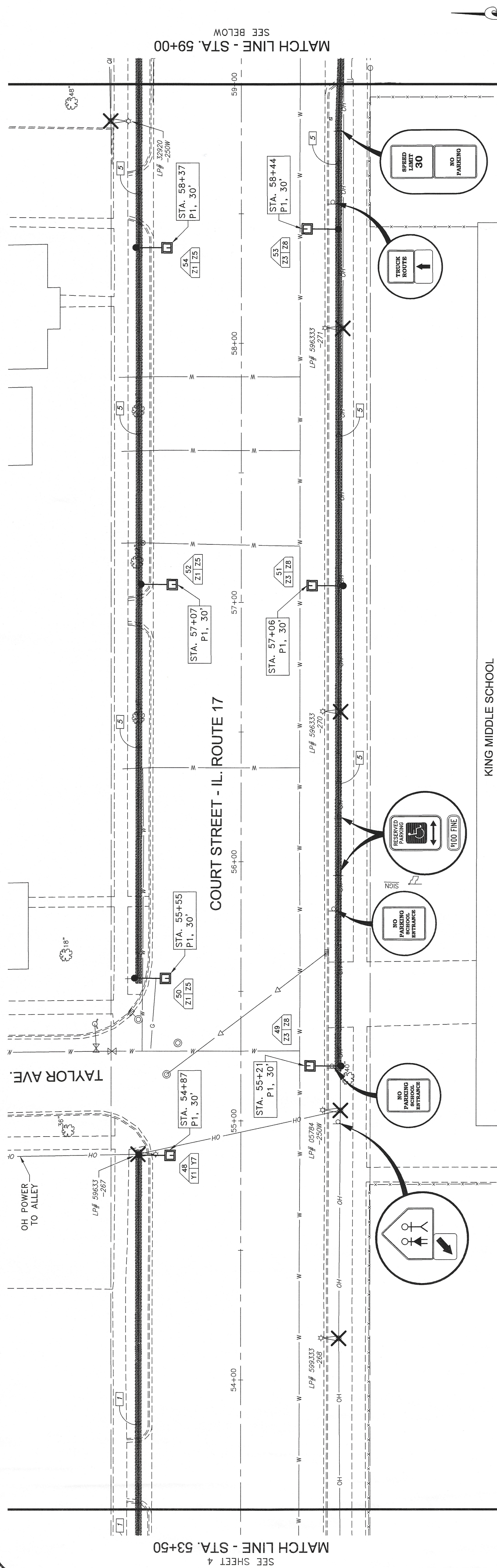
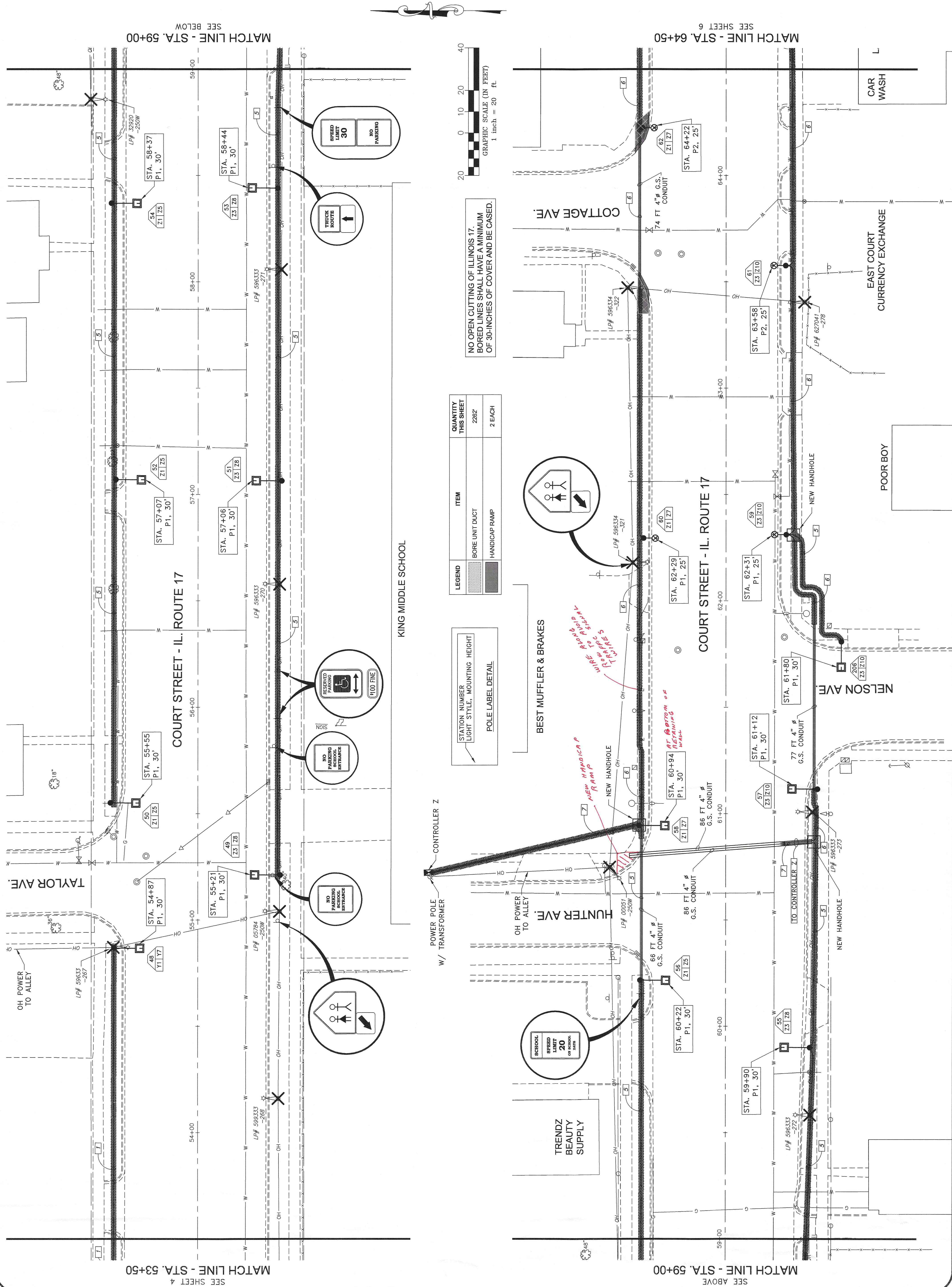
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2	7/16/07	NRD PER IDOT
4	9/4/07	NRD PER NOVA ENG
6	12/3/07	NRD PER IDOT

CITY OF KANKAKEE

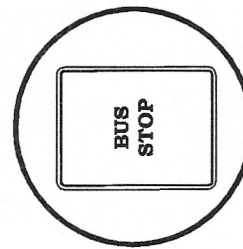
PROPOSED
ORNAMENTAL LIGHTING
COURT STREET FROM HARRISON AVE
TO EASTGATE INDUSTRIAL PARK

COURT STREET
STA. 53+50 TO STA. 64+50

DATE: 11/29/06	JOB NO. E05168
SCALE: HORZ.: 1"=20' VERT.: N/A	FILE NO.
DRAWN BY: NRD	SHEET 5
CHECKED BY: RJB	OF 16



PLAZA LIQUORS



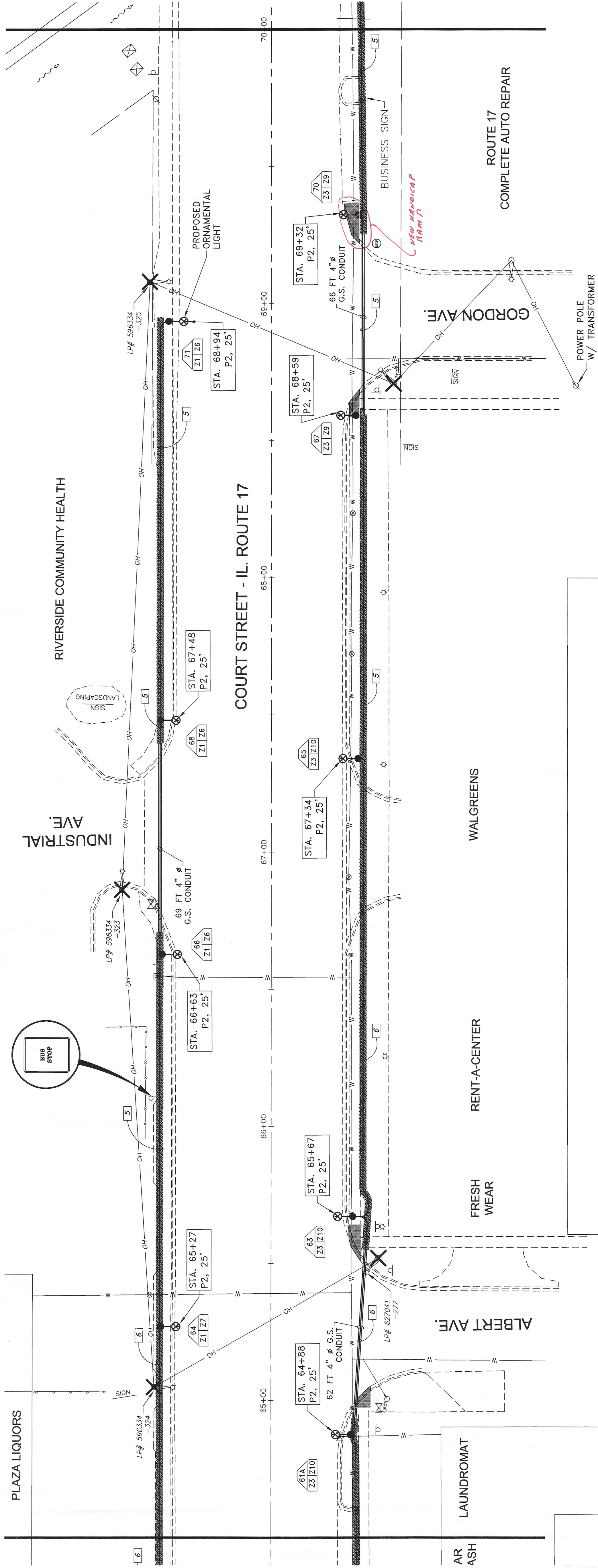
INDUSTRIAL AVE.

RIVERSIDE COMMUNITY HEALTH

MATCH LINE - STA. 64+50
SEE SHEET 5

COURT STREET - IL. ROUTE 17

MATCH LINE - STA. 70+00
SEE BELOW



AR LAUNDROMAT

ALBERT AVE.

FRESH WEAR

RENT-A-CENTER

WALGREENS

ROUTE 17
COMPLETE AUTO REPAIR

GORDON AVE.

NEW MARQUICAP
Name P.

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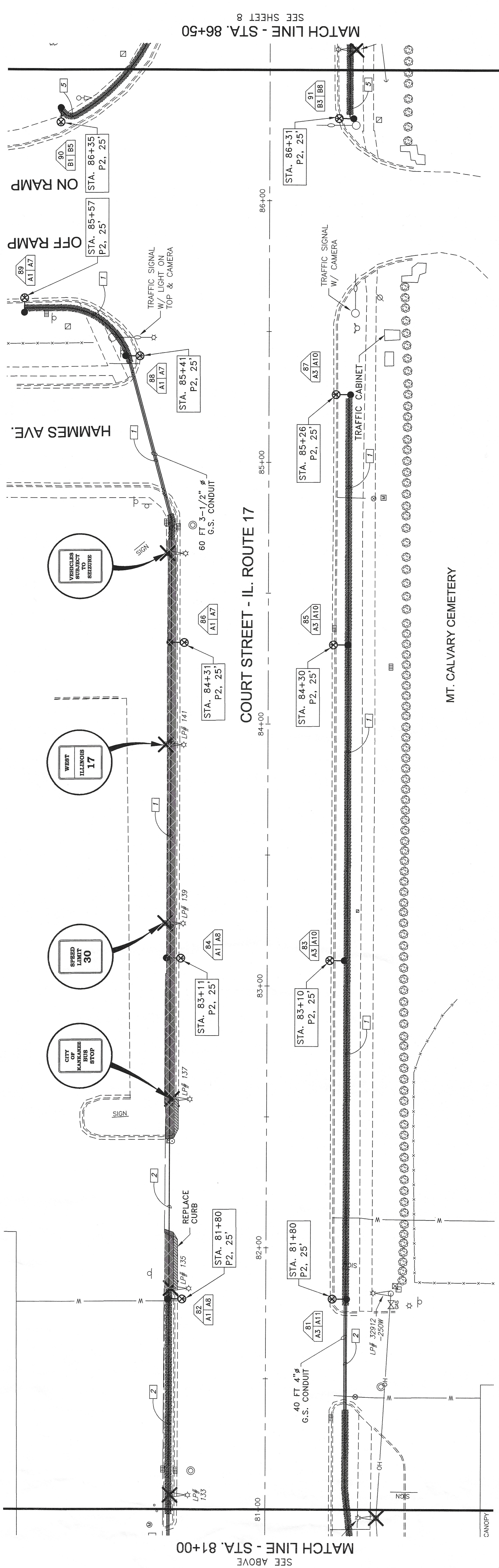
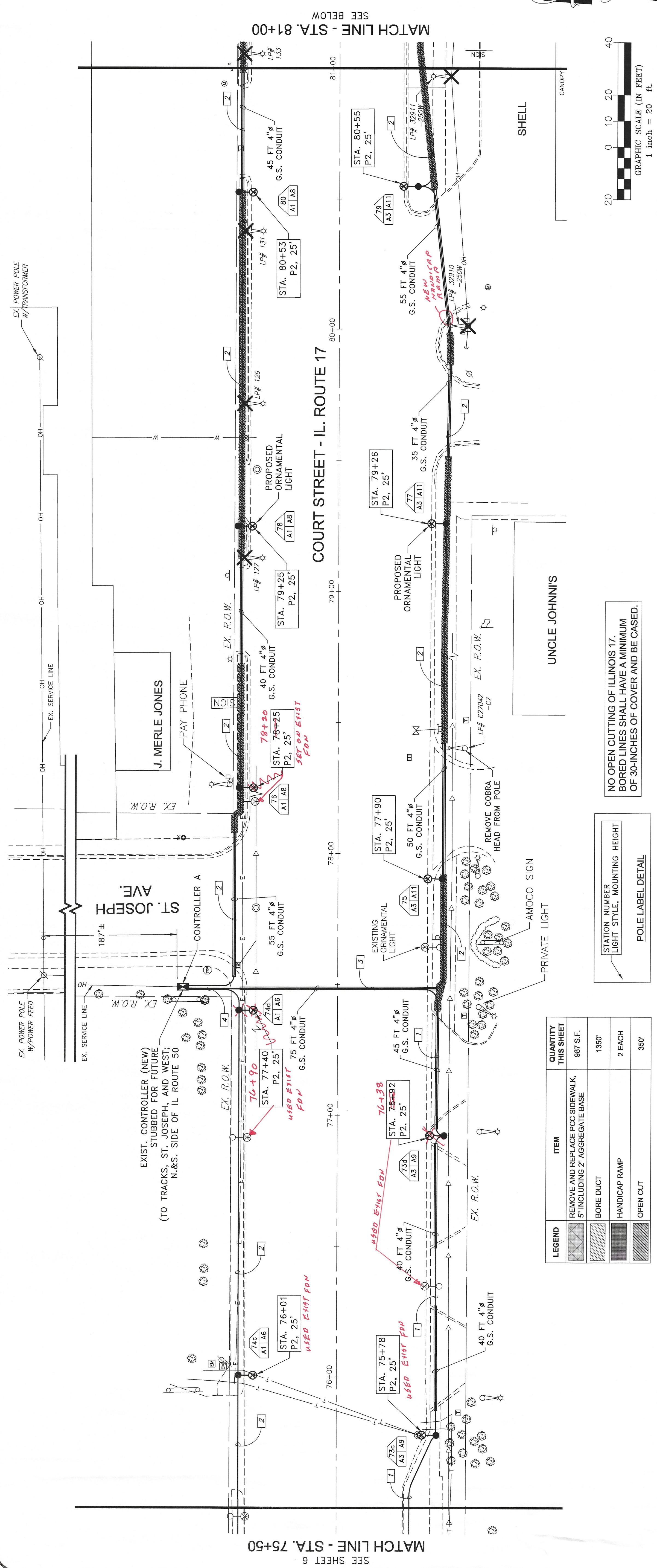
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1	4/20/07	NRD PER NOVA ENG
2	7/16/07	NRD PER IDOT
4	9/4/07	NRD PER NOVA ENG
6	12/3/07	NRD PER IDOT

CITY OF KANKAKEE

PROPOSED ORNAMENTAL LIGHTING
COURT STREET FROM HARRISON AVE TO EASTGATE INDUSTRIAL PARK

COURT STREET
STA. 75+50 TO STA. 86+50

DATE:	11/29/06	JOB NO.	E05168
SCALE:	HORZ.: 1"=20' VERT.: N/A	FILE NO.	
DRAWN BY:	NRD	SHEET	7
CHECKED BY:	RJB	OF 16	



MT. CALVARY CEMETERY

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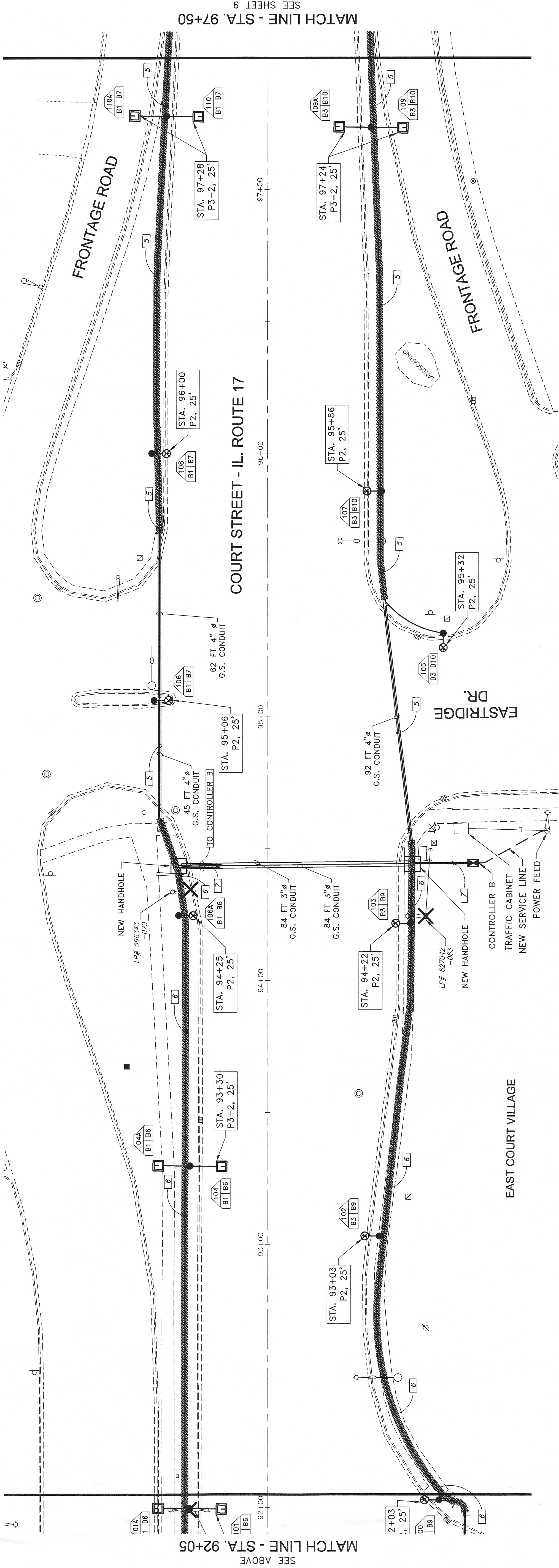
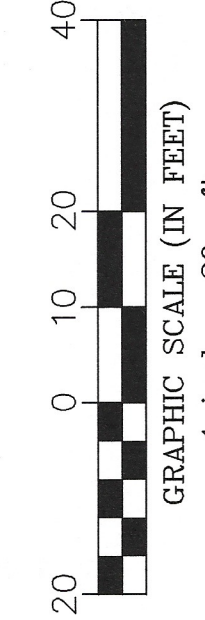
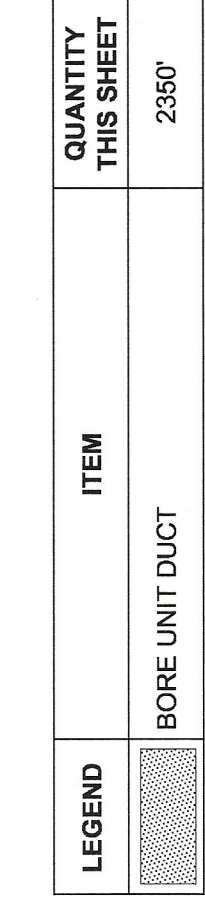
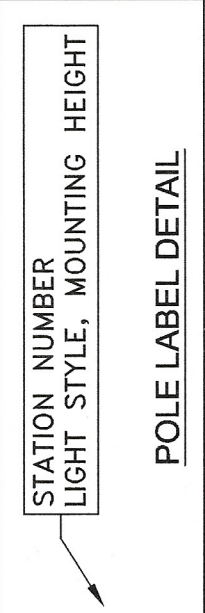
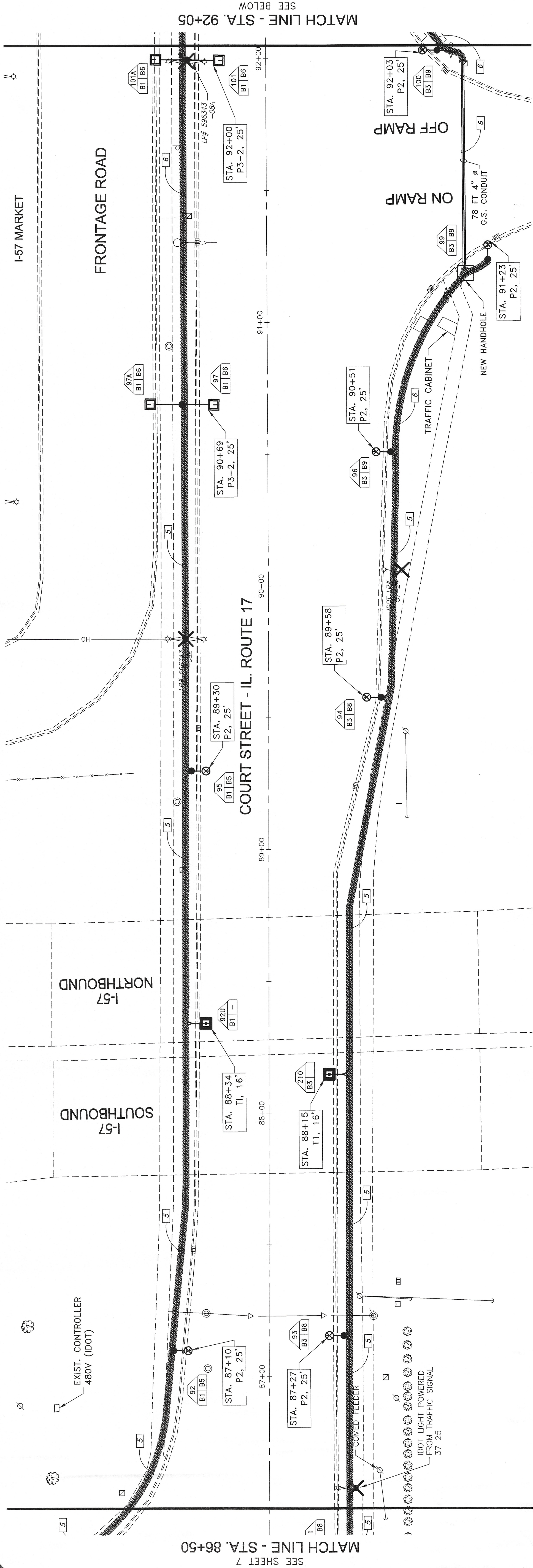
NO.	DATE	BY	DESCRIPTION
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2	7/16/07	NRD	PER IDOT
4	9/4/07	NRD	PER NOVA ENG
6	12/3/07	NRD	PER IDOT

CITY OF KANKAKEE

PROPOSED ORNAMENTAL LIGHTING
COURT STREET FROM HARRISON AVE
TO EASTGATE INDUSTRIAL PARK

COURT STREET
STA. 86+50 TO STA. 97+50

DATE:	11/29/06	JOB NO.	E05168
SCALE:	HORZ.: 1"=20' VERT.: N/A	FILE NO.	
DRAWN BY:	NRD	SHEET	8
CHECKED BY:	RJB	OF 16	



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NO.	DATE	BY	DESCRIPTION
1	4/20/07	NRD	PER NOVA ENG
2	7/16/07	NRD	PER DOT
4	9/4/07	NRD	PER NOVA ENG
6	12/3/07	NRD	PER DOT

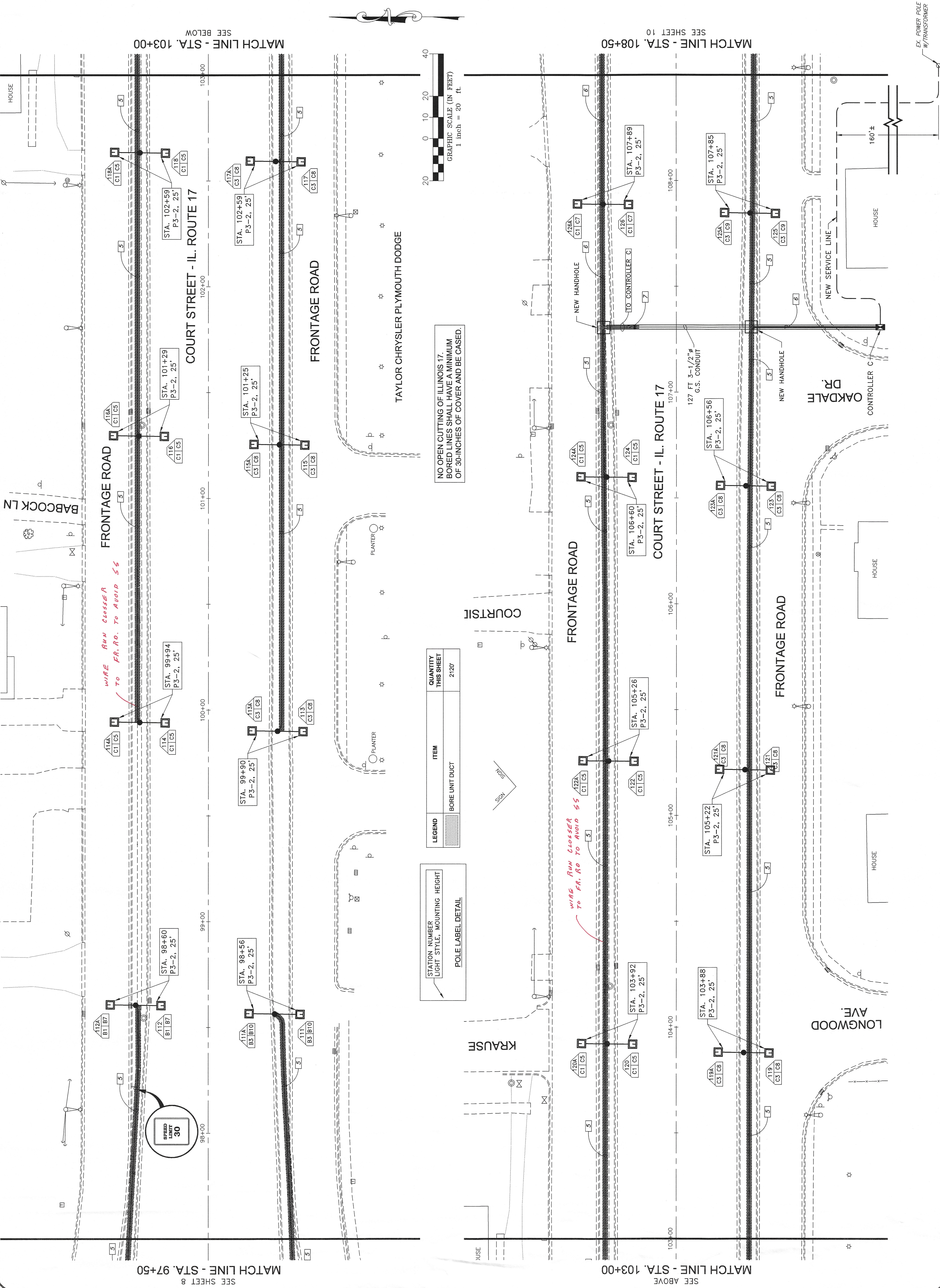
CITY OF KANKAKEE

PROPOSED
ORNAMENTAL LIGHTING

PROJECT:

COURT STREET
STA. 97+50 TO STA. 108+50

DATE:	11/28/06	JOB NO.	E05168
SCALE:	HORZ.: 1"=20' VERT.: N/A	FILE NO.	
DRAWN BY:	NRD	SHEET	9
CHECKED BY:	RJB	OF 16	





TYSON

ENGINEERING,

INC.

367 SOUTH SCHUYLER AVENUE

KANKAKEE, ILLINOIS 60901

PHONE (815) 932-7406

DESIGN FIRM LICENSE #184-001156

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REVISIONS		
NO.	DATE	BY DESCRIPTION
1	4/20/07	NRD PER NOVA ENG
2	7/16/07	NRD PER PER IDOT
4	9/4/07	NRD PER NOVA ENG
6	12/3/07	NRD PER IDOT

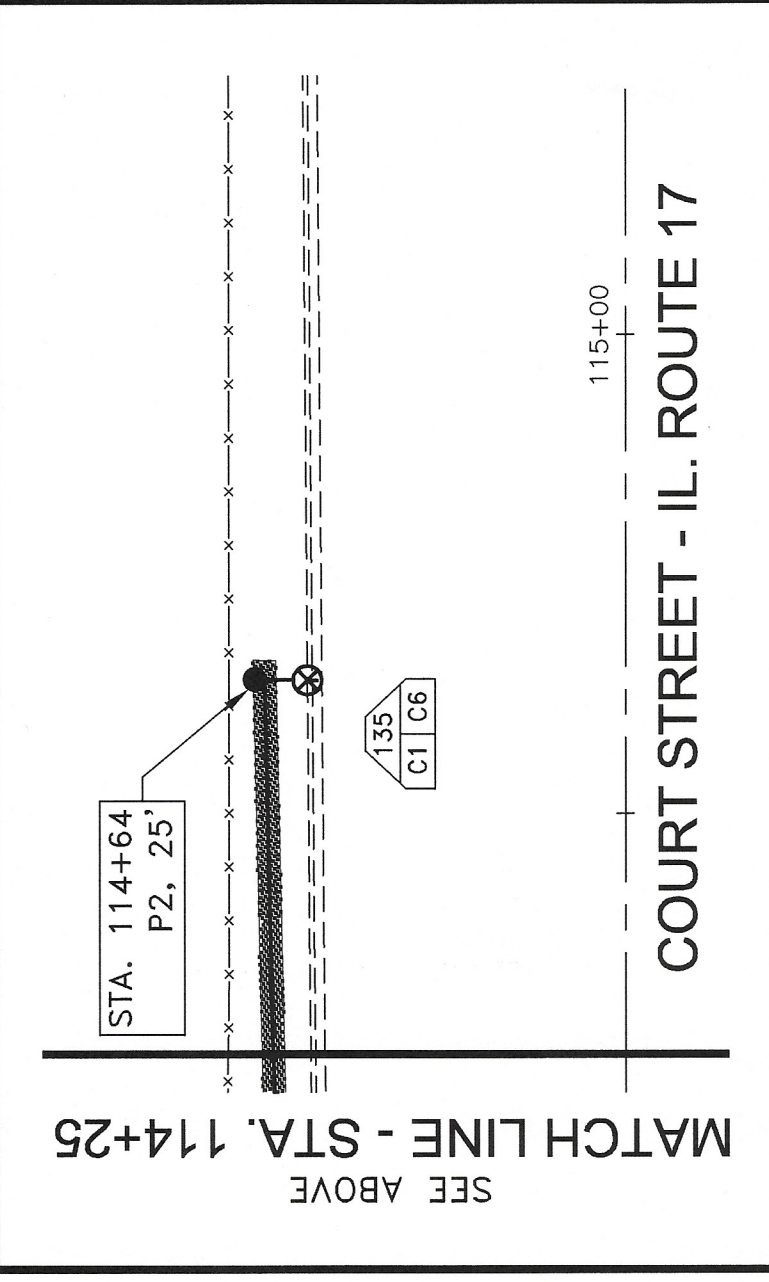
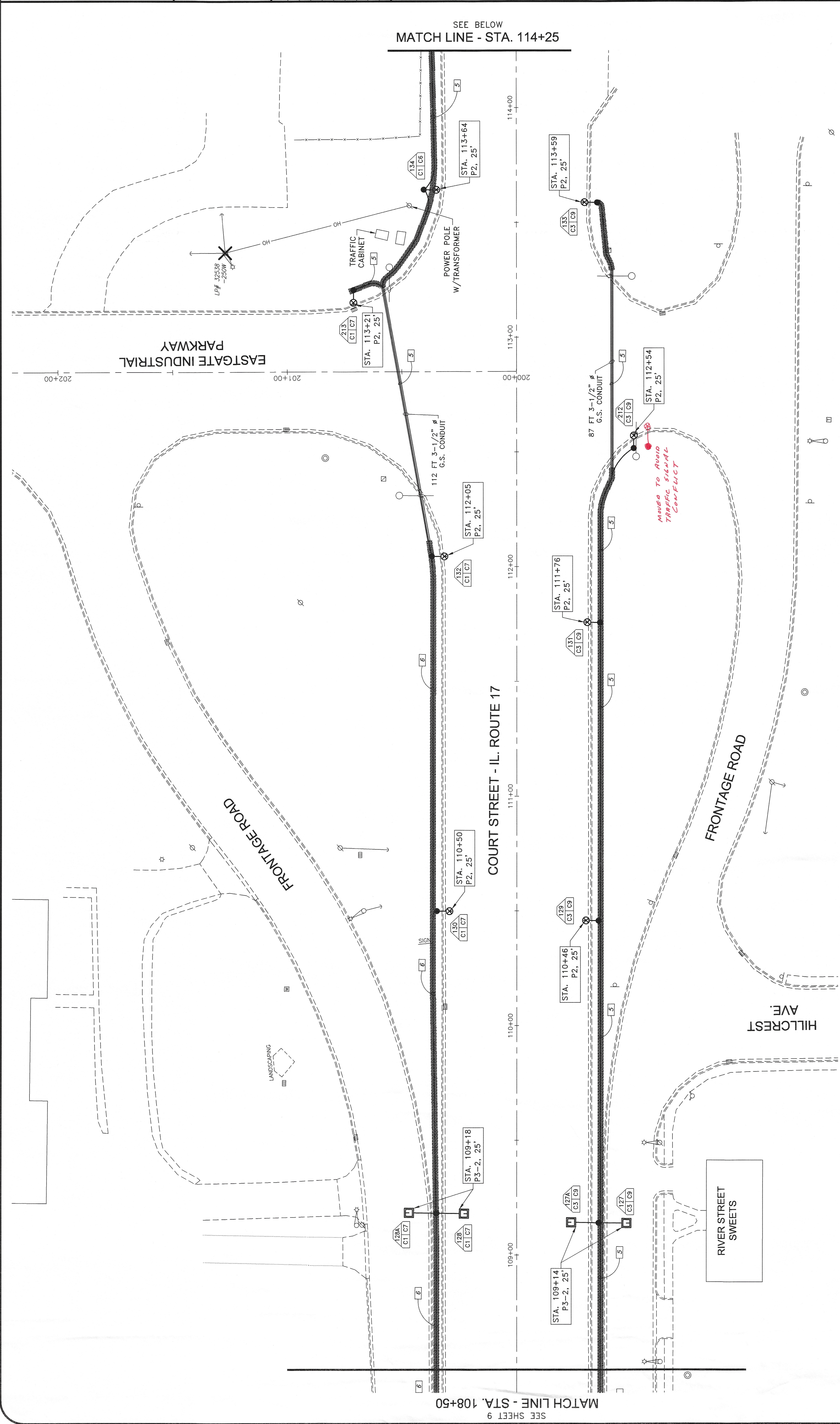
CITY OF KANKAKEE

PROPOSED
ORNAMENTAL LIGHTING
COURT STREET FROM HARRISON AVE
TO EASTGATE INDUSTRIAL PARK

COURT STREET
STA. 108+50 TO STA. 114+25

PROJECT:

DATE:	11/29/06	JOB NO.	E05168
SCALE:	HORIZ.: 1"=20'	FILE NO.	
DRAWN BY:	NRD	SHEET	10
CHECKED BY:	RJB	OF	16



NO OPEN CUTTING OF ILLINOIS 17.
BORED LINES SHALL HAVE A MINIMUM
OF 30-INCHES OF COVER AND BE CAISED.

LEGEND	ITEM	QUANTITY THIS SHEET
	BORE UNIT DUCT	1225'

STATION NUMBER
LIGHT STYLE, MOUNTING HEIGHT

POLE LABEL DETAIL



TYSON

ENGINEERING, INC.

CONSULTING CIVIL ENGINEERS

DESIGN FIRM LICENSE #184-001136

367 SOUTH SCHUYLER AVENUE

KANKAKEE, ILLINOIS 60901

PHONE (815) 932-7406

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Do not scale drawings. Use dimensions only. Contractor shall be responsible for verifying all dimensions.

Information herein and herein is confidential.

REVISIONS		
NO.	DATE	DESCRIPTION
1	4/20/07	NRD PER NOVA ENG
2	7/16/07	NRD PER DOT
4	9/4/07	NRD PER NOVA ENG
6	12/3/07	NRD PER DOT

CITY OF KANKAKEE

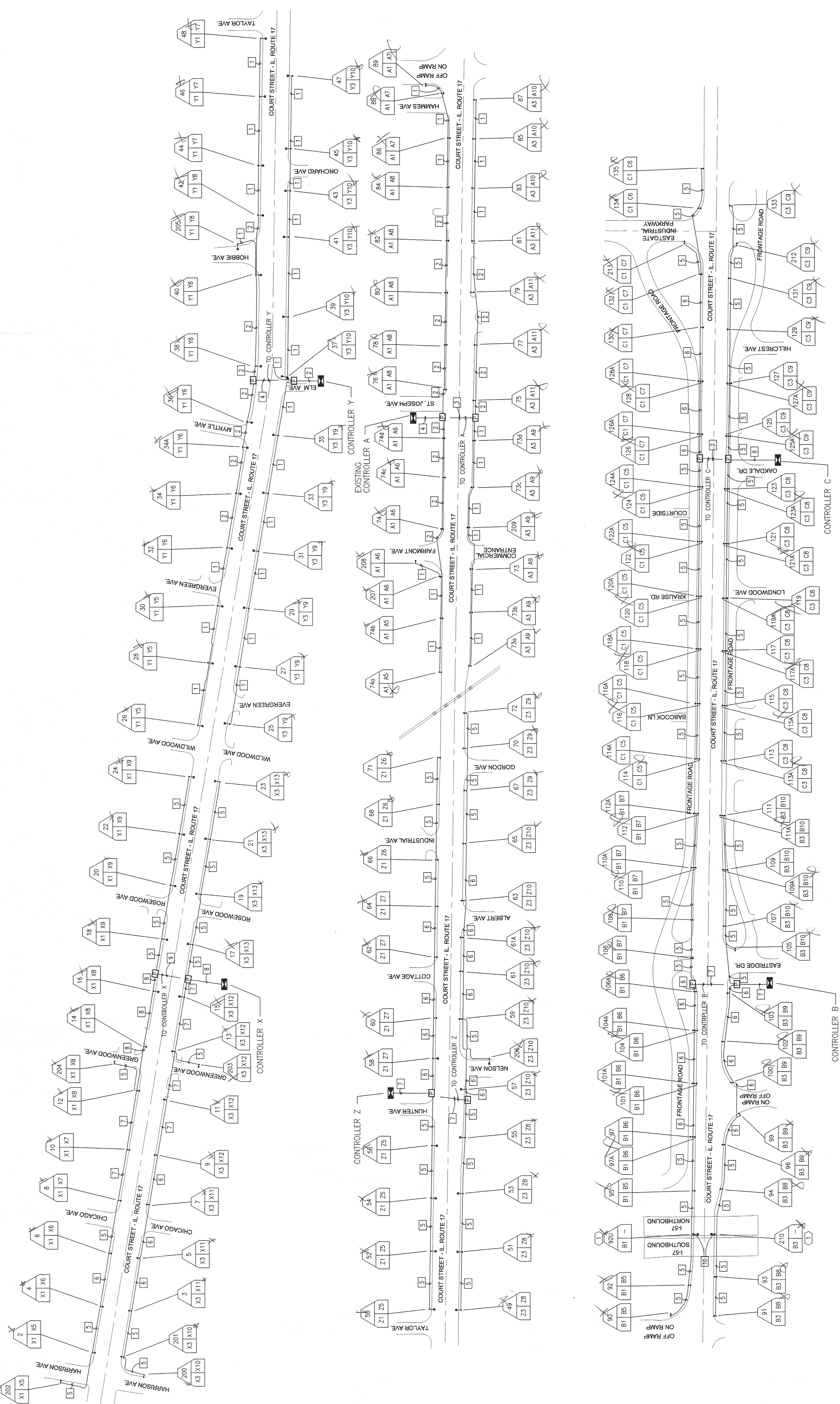
NEW ORNAMENTAL LIGHTING TO EASTGATE FROM HARRISON AVE

BLOCK DIAGRAM

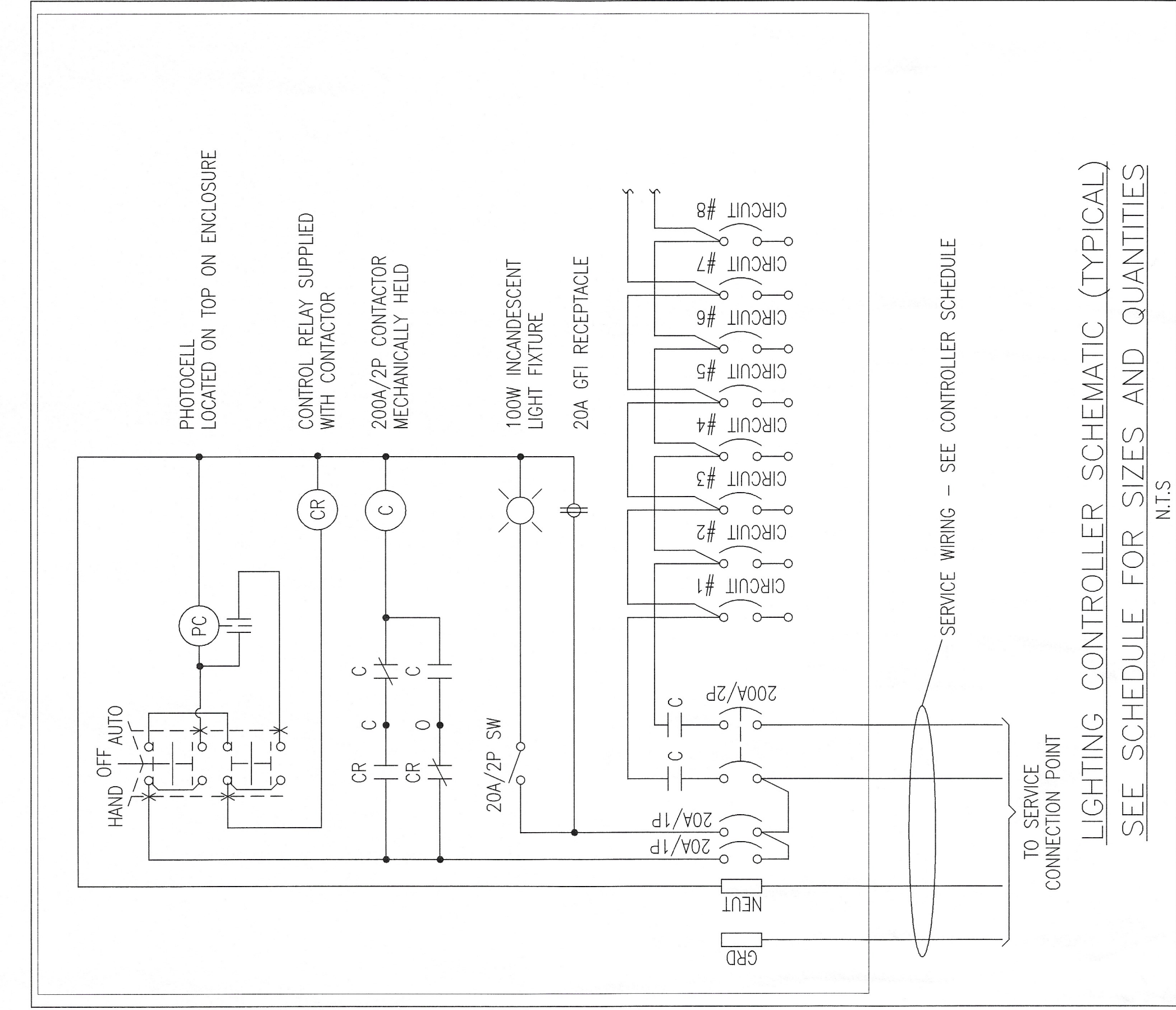
DATE:	10/27/06	JOB NO:	E05168
SCALE:	N/A	FILE NO.	
DRAWN BY:	NRD	SHEET	11
CHECKED BY:	RJB	OF 16	

SHEET NOTES (1)

1. NO RECEIPTABLE NEEDED FOR SURFACE MOUNTED UNDERPASS LIGHTING.



LIGHTING LAYOUT BY: **ARCHIBALD & MEEK**
537 WRIGHTWOOD AVE, ELMHURST, IL 60126
PHONE: (630) 833-7377 FAX: (630) 833-6297
E-MAIL: COR@AMIREP.COM



LIGHTING CONTROLLER SCHEMATIC (TYPICAL)
SEE SCHEDULE FOR SIZES AND QUANTITIES

N.T.S

CONTROLLER: X				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 200A MAIN BREAKER				
CONTRACTOR: 200A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 59"H X 44"W X 27"D (NOM)				
FEEDER: 1-1/2"C-3#3/0				
CKT	LOAD DESCRIPTION	C/B	LOAD VA	
			L1 L2	
1	LTS: 202.2,4,6,8,10,12,204,	30A/2P	2520	2520
2	14,16,18,20,22,24	30A/2P	2520	2520
3	LTS: 200,201,3,5,7,9,11,203,	30A/2P	2520	2160
4	13,15,17,19,21,23	20A/1P	2520	2160
5	REC: POLES 202, 2	20A/1P	1200	1800
6	REC: POLES 4, 6	20A/1P	1200	2400
7	REC: POLES 8, 10	20A/1P	1200	1800
8	REC: POLES 12, 204, 14, 16	30A/1P	2400	2400
9	REC: POLES 18, 20, 22, 24	30A/1P	2400	3600
10	REC: POLES 200, 201	20A/1P	1200	1800
11	REC: POLES 3, 5, 7	20A/1P	1800	3000
12	REC: POLES 9,11,13,203,15	40A/1P	2400	2400
13	REC: POLES 17, 19, 21, 23	20A/1P	2400	2400
14	SPARE	20A/1P	-	-
15	20A/1P	20A/1P	-	-
16	20A/1P	20A/1P	-	-
17	20A/1P	20A/1P	-	-
18	20A/1P	20A/1P	-	-
19	20A/1P	20A/1P	-	-
20	20A/1P	20A/1P	-	-
21	20A/1P	20A/1P	-	-
22	20A/1P	20A/1P	-	-
23	20A/1P	20A/1P	-	-
24	20A/1P	20A/1P	-	-
25	20A/1P	20A/1P	-	-
26	20A/1P	20A/1P	-	-
27	20A/1P	20A/1P	-	-
28	20A/1P	20A/1P	-	-
29	20A/1P	20A/1P	-	-
30	20A/1P	20A/1P	-	-
31	20A/1P	20A/1P	-	-
32	20A/1P	20A/1P	-	-
33	20A/1P	20A/1P	-	-
34	20A/1P	20A/1P	-	-
35	20A/1P	20A/1P	-	-
36	20A/1P	20A/1P	-	-
37	20A/1P	20A/1P	-	-
38	20A/1P	20A/1P	-	-
39	20A/1P	20A/1P	-	-
40	20A/1P	20A/1P	-	-
41	20A/1P	20A/1P	-	-
42	20A/1P	20A/1P	-	-
TOTAL KVA PER PHASE			14.0	12.8
TOTAL (KVA)			27	25
MAX AMPS			117	109

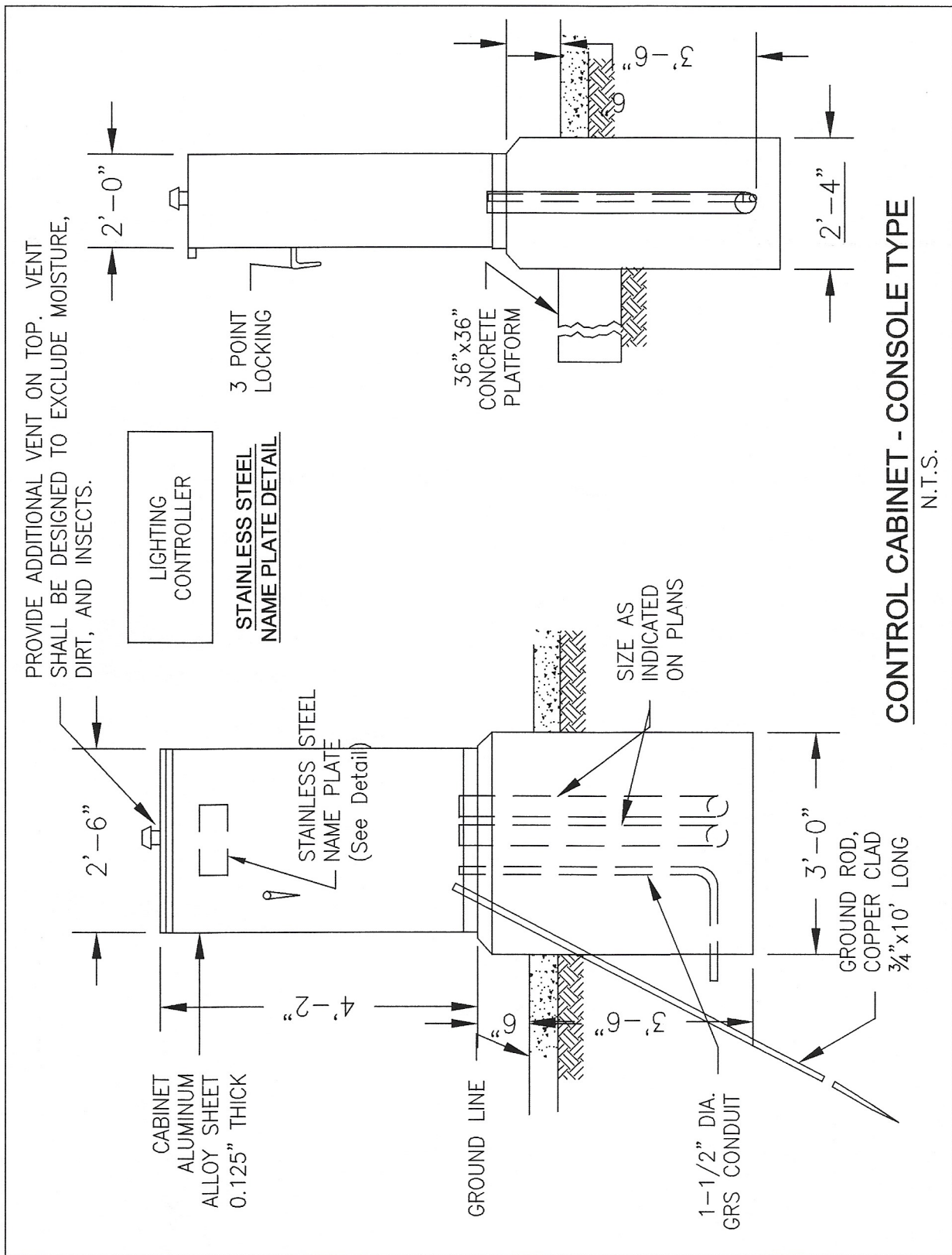
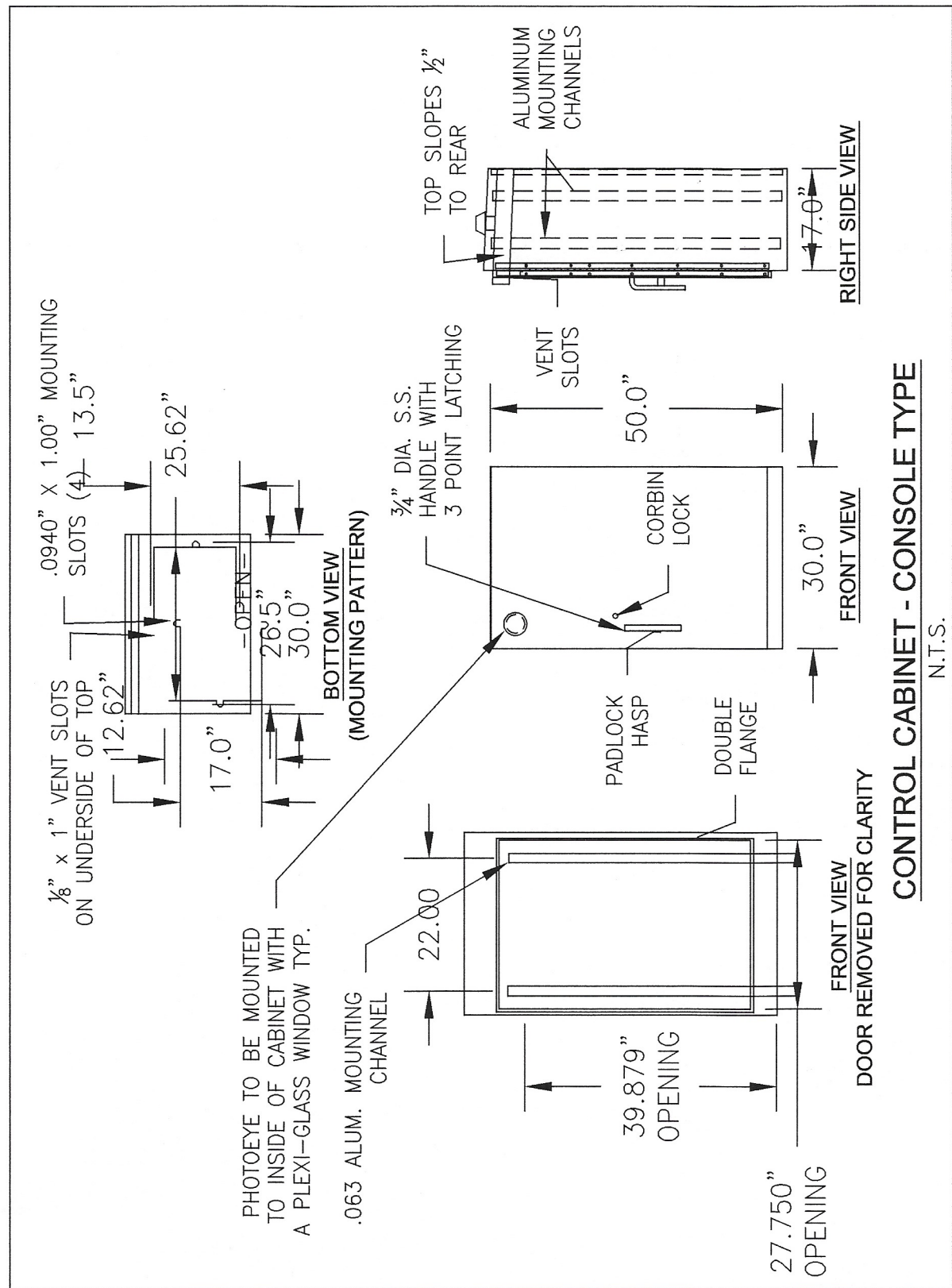
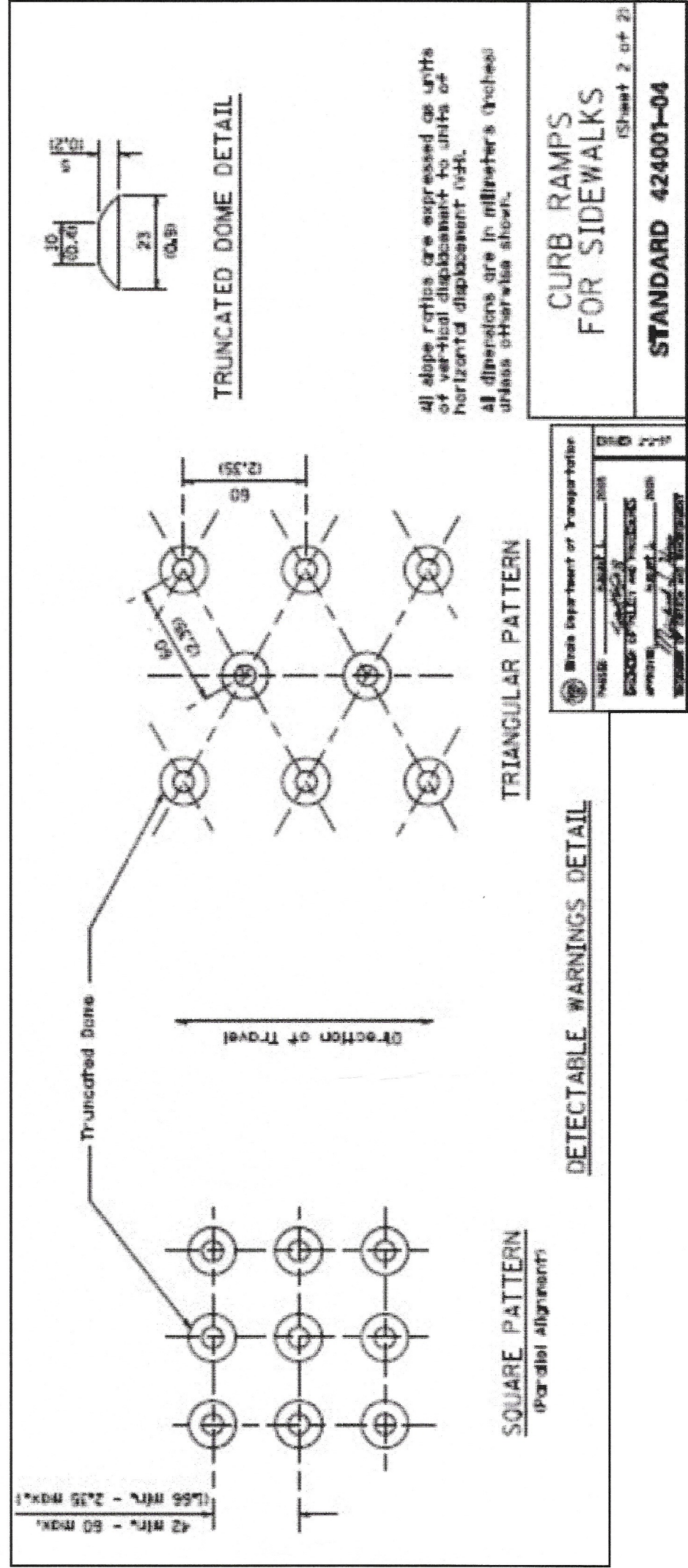
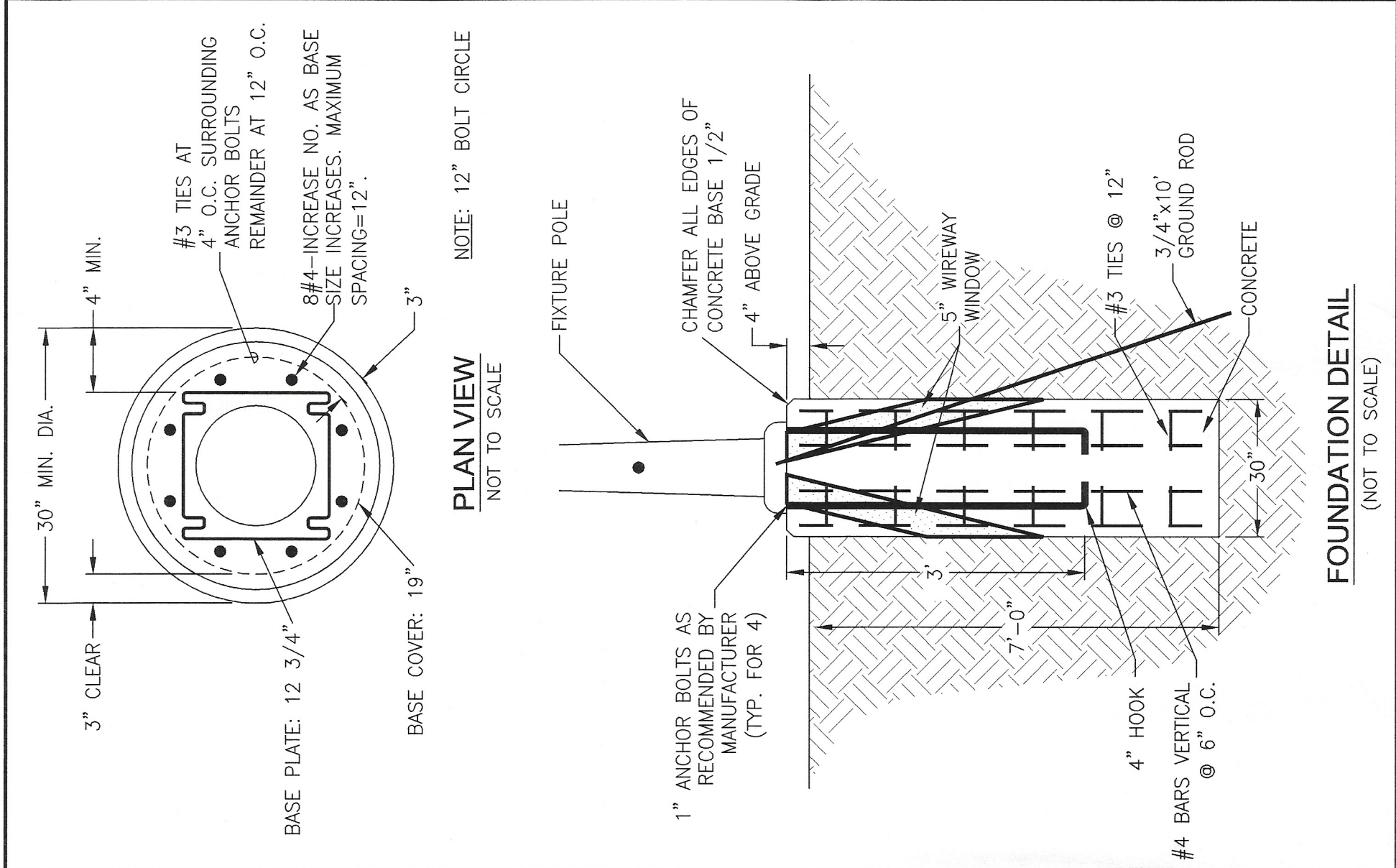
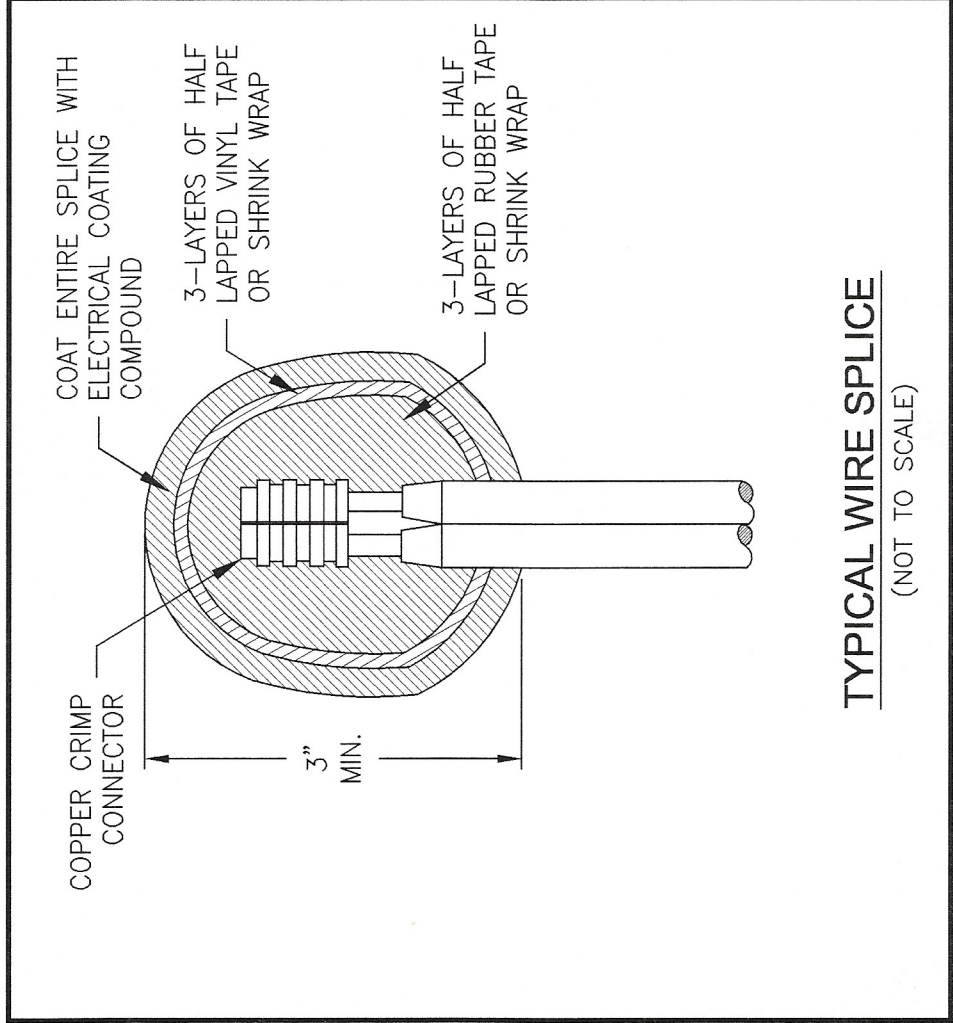
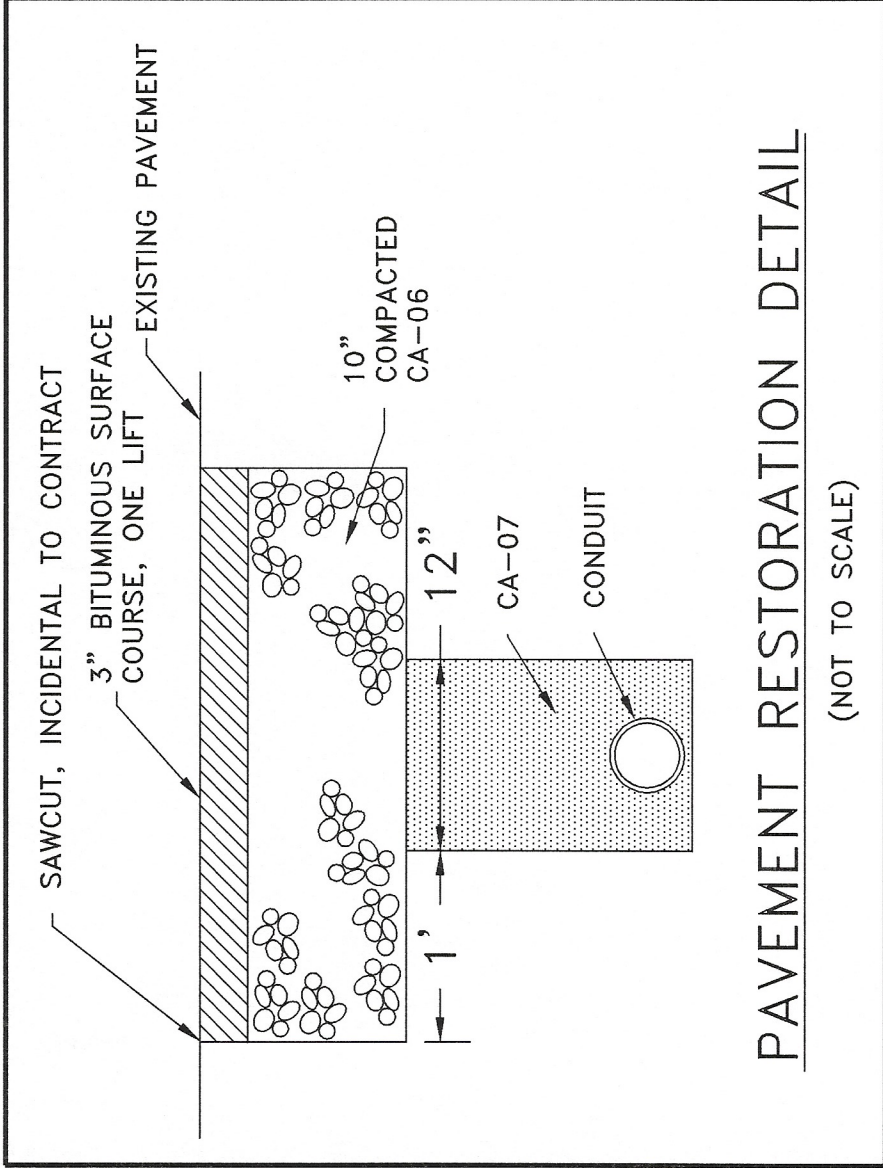
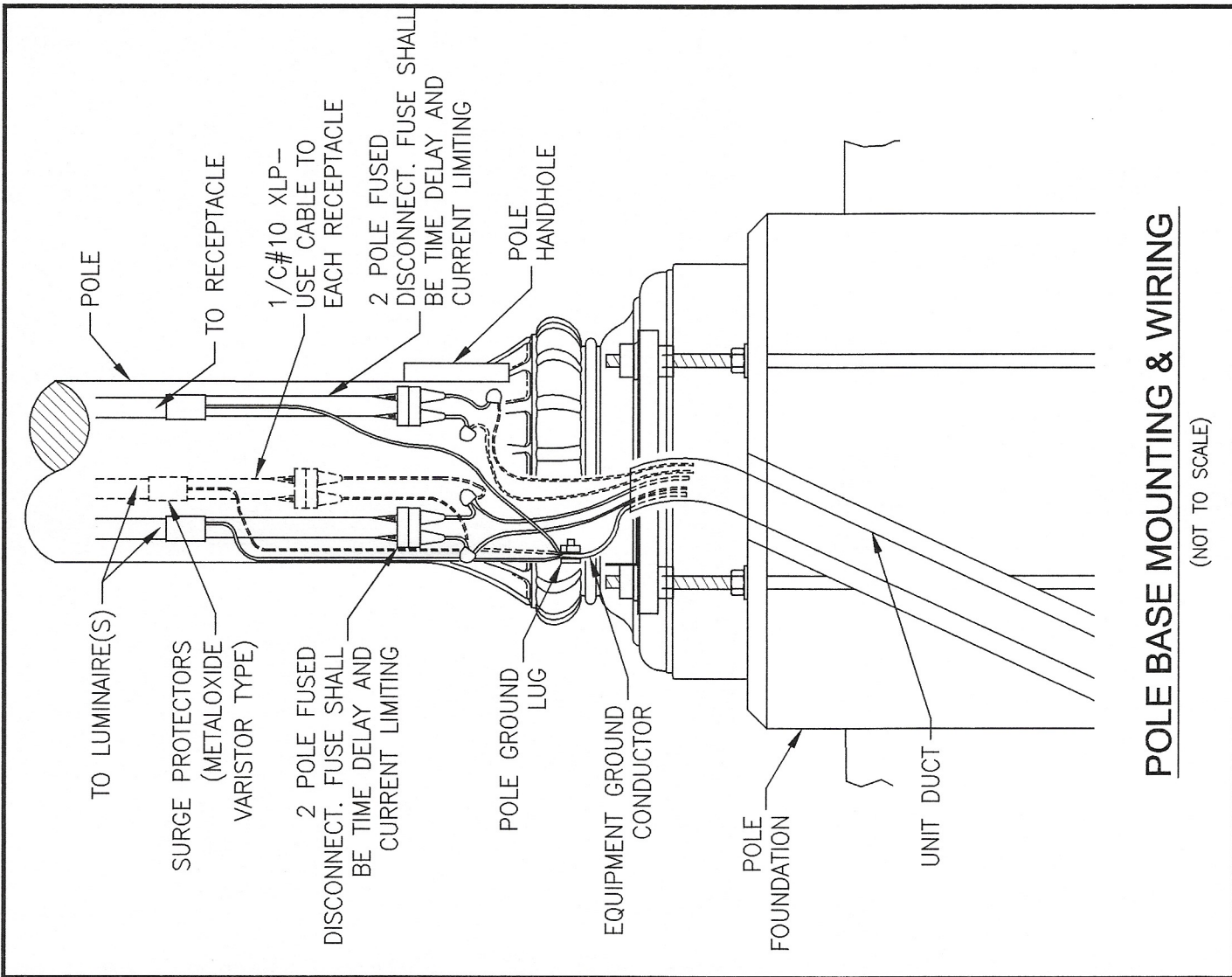
CONTROLLER: Y				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 200A MAIN BREAKER				
CONTRACTOR: 200A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 59"H X 44"W X 27"D (NOM)				
FEEDER: 1-1/2"C-3#3/0				
CKT	LOAD DESCRIPTION	C/B	LOAD VA	
			L1 L2	
1	LTS: POLES 26,28,30,32,34,36,	30A/2P	2520	2520
2	3A,38,40,205,42,44,46,48	30A/2P	2160	2160
3	LTS: POLES 35,27,29,31,33,35,	30A/2P	2160	2160
4	37,39,41,43,45,47	20A/1P	1800	1800
5	REC: POLES 26, 28, 30	20A/1P	1800	2400
6	REC: POLES 32, 34, 34A, 36	30A/1P	2400	2400
7	REC: POLES 44, 46, 48	30A/1P	2400	2400
8	REC: POLES 38,40,205,42	30A/1P	3600	3600
9	REC: POLES 27,29,31,33,35	40A/1P	2400	2400
10	REC: POLES 37,39,41,43,45,47	20A/1P	1800	1800
11	SPARE	20A/1P	-	-
12	20A/1P	20A/1P	-	-
13	20A/1P	20A/1P	-	-
14	20A/1P	20A/1P	-	-
15	20A/1P	20A/1P	-	-
16	20A/1P	20A/1P	-	-
17	20A/1P	20A/1P	-	-
18	20A/1P	20A/1P	-	-
19	20A/1P	20A/1P	-	-
20	20A/1P	20A/1P	-	-
21	20A/1P	20A/1P	-	-
22	20A/1P	20A/1P	-	-
23	20A/1P	20A/1P	-	-
24	20A/1P	20A/1P	-	-
25	20A/1P	20A/1P	-	-
26	20A/1P	20A/1P	-	-
27	20A/1P	20A/1P	-	-
28	20A/1P	20A/1P	-	-
29	20A/1P	20A/1P	-	-
30	20A/1P	20A/1P	-	-
31	20A/1P	20A/1P	-	-
32	20A/1P	20A/1P	-	-
33	20A/1P	20A/1P	-	-
34	20A/1P	20A/1P	-	-
35	20A/1P	20A/1P	-	-
36	20A/1P	20A/1P	-	-
37	20A/1P	20A/1P	-	-
38	20A/1P	20A/1P	-	-
39	20A/1P	20A/1P	-	-
40	20A/1P	20A/1P	-	-
41	20A/1P	20A/1P	-	-
42	20A/1P	20A/1P	-	-
TOTAL KVA PER PHASE			11.9	13.0
TOTAL (KVA)			25	25
MAX AMPS			109	109

CONTROLLER: Z				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 200A MAIN BREAKER				
CONTRACTOR: 200A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 59"H X 44"W X 27"D (NOM)				
FEEDER: 1-1/2"C-3#3/0				
CKT	LOAD DESCRIPTION	C/B	LOAD VA	
			L1 L2	
1	LTS: POLES 50,52,54,56,58,60,	30A/2P	1980	1980
2	62,64,66,68,71	30A/2P	2520	2520
3	LTS: POLES 49,51,53,55,57,59,	30A/2P	2520	2520
4	206,61,61A,63,65,67,70,72	30A/1P	2400	2400
5	REC: POLES 50, 52, 54, 56	30A/1P	2400	1800
6	REC: POLES 66, 68, 71	20A/1P	2400	2400
7	REC: POLES 58, 60, 62, 64	30A/1P	2400	2400
8	REC: POLES 49, 51, 53, 55	30A/1P	1800	1800
9	REC: POLES 67, 70, 72	20A/1P	1800	3840
10	REC: 57,59,206,61,61A,63,65	40A/1P	-	-
11	SPARE	20A/1P	-	-
12	20A/1P	20A/1P	-	-
13	20A/1P	20A/1P	-	-
14	20A/1P	20A/1P	-	-
15	20A/1P	20A/1P	-	-
16	20A/1P	20A/1P	-	-
17	20A/1P	20A/1P	-	-
18	20A/1P	20A/1P	-	-
19	20A/1P	20A/1P	-	-
20	20A/1P	20A/1P	-	-
21	20A/1P	20A/1P	-	-
22	20A/1P	20A/1P	-	-
23	20A/1P	20A/1P	-	-
24	20A/1P	20A/1P	-	-
25	20A/1P	20A/1P	-	-
26	20A/1P	20A/1P	-	-
27	20A/1P	20A/1P	-	-
28	20A/1P	20A/1P	-	-
29	20A/1P	20A/1P	-	-
30	20A/1P	20A/1P	-	-
31	20A/1P	20A/1P	-	-
32	20A/1P	20A/1P	-	-
33	20A/1P	20A/1P	-	-
34	20A/1P	20A/1P	-	-
35	20A/1P	20A/1P	-	-
36	20A/1P	20A/1P	-	-
37	20A/1P	20A/1P	-	-
38	20A/1P	20A/1P	-	-
39	20A/1P	20A/1P	-	-
40	20A/1P	20A/1P	-	-
41	20A/1P	20A/1P	-	-
42	20A/1P	20A/1P	-	-
TOTAL KVA PER PHASE			11.1	12.6
TOTAL (KVA)			23.7	105
MAX AMPS			105	105

CONTROLLER: A (EXISTING) (T)				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 150A MAIN BREAKER				
CONTRACTOR: 150A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 50"H X 30"W X 17"D (NOM)				
FEEDER: 1-1/2"C-3#1/0				
CKT	LOAD DESCRIPTION	C/B	LOAD VA	
			L1 L2	
1	LTS: POLES 74c,74b,207,208,74	30A/2P	2700	2700
2	74c,74b,76,78,80,82,84,86,88,89	30A/2P	2340	2340
3	LTS: POLES 73c,73b,73,209,73c,	30A/2P	2340	2340
4	73c,75,77,79,81,83,85,87	20A/1P	1200	3000
5	REC: POLES 74c, 74b	20A/1P	1800	2400
6	REC: 207, 208, 74, 74c, 74d	40A/1P	1800	3000
7	REC: POLES 86, 88, 89	20A/1P	1800	3000
8	REC: POLES 76,78,80,82,84	40A/1P	3600	3600
9	REC: 73a,73b,73,209,73c,73d	40A/1P	1800	1800
10	REC: POLES 83, 85, 87	20A/1P	2400	2400
11	REC: POLES 75, 77, 79, 81	30A/1P	2400	-
12	SPARE	30A/1P	-	-
13	30A/1P	30A/1P	-	-
14	30A/1P	30A/1P	-	-
15	30A/1P	30A/1P	-	-
16	30A/1P	30A/1P	-	-
17	SPACE	30A/1P	-	-
18	20A/1P	20A/1P	-	-
19	20A/1P	20A/1P	-	-
20	20A/1P	20A/1P	-	-
21	20A/1P	20A/1P	-	-
22	20A/1P	20A/1P	-	-
23	20A/1P	20A/1P	-	-
24	20A/1P	20A/1P	-	-
25	20A/1P	20A/1P	-	-
26	20A/1P	20A/1P	-	-
27	20A/1P	20A/1P	-	-
28	20A/1P	20A/1P	-	-
29	20A/1P	20A/1P	-	-
30	20A/1P	20A/1P	-	-
31	20A/1P	20A/1P	-	-
32	20A/1P	20A/1P	-	-
33	20A/1P	20A/1P	-	-
34	20A/1P	20A/1P	-	-
35	20A/1P	20A/1P	-	-
36	20A/1P	20A/1P	-	-
37	20A/1P	20A/1P	-	-
38	20A/1P	20A/1P	-	-
39	20A/1P	20A/1P	-	-
40	20A/1P	20A/1P	-	-
41	20A/1P	20A/1P	-	-
42	20A/1P	20A/1P	-	-
TOTAL KVA PER PHASE			14.0	12.9
TOTAL (KVA)			26.9	117
MAX AMPS			117	117

SHEET NOTE:
1. EXISTING CONTROLLER A, VERIFY EXISTING CONDITIONS PRIOR TO ORDERING AND ROUGH-IN. ADJUST PANELBOARD AS REQUIRED TO ACCOMMODATE NEW CIRCUIT BREAKERS.

CONTROLLER: B				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 200A MAIN BREAKER				
CONTRACTOR: 200A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 59"H X 44"W X 27"D (NOM)				
FEEDER: 1-1/2"C-3#3/0				
CKT	LOAD DESCRIPTION	C/B	LOAD VA	
NO			L1	L2
1	LTS: 90,92,92U,95,97A,101A,106,	40A/2P	2980	2980
2	104A,106A,108,110A,112A	30A/2P	2620	2620
3	LTS: 91,93,210,94,96,99,100	30A/1P	1800	2400
4	102,103,105,107,109A,111A	20A/1P	2400	2400
5	REC: POLES 90, 92, 95	20A/1P	1800	2400
6	REC: 97, 101, 104, 106A	30A/1P	2400	2400
7	REC: 106, 108, 110, 112	20A/1P	1800	1800
8	REC: POLES 91, 93, 94	30A/1P	3000	3000
9	REC: 96, 99, 100, 102, 103	40A/1P	2400	2400
10	REC: 105, 107, 109, 111	20A/1P	1800	1800
11	SFAPR	20A/1P	1800	1800
12		20A/1P	1800	1800
13		20A/1P	1800	1800
14		20A/1P	1800	1800
15		20A/1P	1800	1800
16		20A/1P	1800	1800
17		20A/1P	1800	1800
18		20A/1P	1800	1800
19		20A/1P	1800	1800
20		20A/1P	1800	1800
21		20A/1P	1800	1800
22		20A/1P	1800	1800
23		20A/1P	1800	1800
24		20A/1P	1800	1800
25		20A/1P	1800	1800
26		20A/1P	1800	1800
27		20A/1P	1800	1800
28		20A/1P	1800	1800
29		20A/1P	1800	1800
30		20A/1P	1800	1800
31		20A/1P	1800	1800
32		20A/1P	1800	1800
33		20A/1P	1800	1800
34		20A/1P	1800	1800
35		20A/1P	1800	1800
36		20A/1P	1800	1800
37		20A/1P	1800	1800
38		20A/1P	1800	1800
39		20A/1P	1800	1800
40		20A/1P	1800	1800
41		20A/1P	1800	1800
42		20A/1P	1800	1800
TOTAL KVA PER PHASE			12.8	12.2
TOTAL (KVA)			25	
MAX AMPS			107	



LUMINAIRE SCHEDULE	
LABEL	DESCRIPTION
P1	250W TYPE II PROFILER
2-250W	BACK TO BACK
P2	250W TYPE III TEARDROP
T1	150W TUNNEL LIGHT

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	4/20/07	NRD	PER NOVA ENG
2	7/16/07	NRD	PER IDOT
4	9/4/07	NRD	PER NOVA ENG
5	10/14/07	NRD	PER IDOT
6	12/3/07	NRD	PER IDOT

CITY
OF
KANKAKEE

NEW ORNAMENTAL LIGHTING

CONTROLLER DETAILS

DATE:	11/29/06	JOB NO.	
SCALE:	N/A	FILE NO.	E05168
DRAWN BY:	NRD	SHEET	13
CHECKED BY:	RJB		OF 16

ELECTRICAL DESIGN & CALCULATIONS BY:

NOVA ENGINEERING, PC
17819 CHAPPEL AVE. LANSING, IL 60438
PHONE: 708-889-0885 FAX: 708-889-0204
E-MAIL: NOVA@NOVAENGINEERINGPC.COM

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Do not scale drawings. Use dimensions only.

Contractor shall be responsible for verifying all dimensions.

Information hereon and herein is confidential

TRAFFIC CONTROL DEVICES
(Sheet 1 of 3)
STANDARD 702001-03

GENERAL NOTES

All heights shown shall be measured above the pavement surface.
All distances are in millimeters (inches) unless otherwise shown.

REVISIONS

DATE	REVISIONS
1-1-03	Rev. devices to meet NCHRP 350.
1-1-01	Added the word limits in Work Limit Signing det.
	Removed tubular marker.

CONES

REFLECTORIZED CONE

FLEXIBLE DELINEATOR

VERTICAL PANEL POST MOUNTED

DRUM

TYPE I BARRICADE

TYPE II BARRICADE

TYPE III BARRICADE

DIRECTION INDICATOR BARRICADE

VERTICAL BARRICADE

Warning lights (if required)

[illegible]

Ministry of Transport and Infrastructure General Directorate of Road and Motorway Directorate of Road and Motorway	ISSUED	1-1-97
	APPROVED	2003
	PROJECTED BY APPROVED BY PROJECTED BY APPROVED BY	2003

DATE	REVISIONS
1-1-03	Rev. devices to meet NCORP 350.
1-1-03	Added the word limits to Work Limit Signing dev.
	Removed tubular marker.

TRAFFIC CONTROL DEVICES	(Sheet 1 of 3)
STANDARD 702001-03	

TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)
STANDARD 702001-03

Dimensions are in millimeters (inches) unless otherwise shown.

CONSTRUCTION SPEED LIMIT SIGN

POST MOUNTED SIGNS

- When curb or paved shoulder are present this dimension shall be 600 mm (24") to the edge of the paved shoulder.
- When Workers Present (Black on orange)
- Speed Limit 45 (Black on white)
- \$200 Fine Maximum (Black on white)
- \$200 FINE MINIMUM (Black on white)

SIGNS ON TEMPORARY SUPPORTS

HIGH LEVEL WARNING DEVICE

FLAGGER TRAFFIC CONTROL SIGN

WORK LIMIT SIGNING

This signing is required for all projects over 3200 m (2 miles) or more in length.
ROAD CONSTRUCTION NEXT X MILES sign shall be placed 150 m (500') in advance of project limits.
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 3200 m (2 miles).

TRAFFIC CONTROL DEVICES

Dimensions are in millimeters (inches) unless otherwise shown.

CONSTRUCTION SPEED LIMIT SIGN

POST MOUNTED SIGNS

- When Workers Present (Black on orange)
- Speed Limit 45 (Black on white)
- \$200 Fine Maximum (Black on white)
- \$200 FINE MINIMUM (Black on white)

SIGNS ON TEMPORARY SUPPORTS

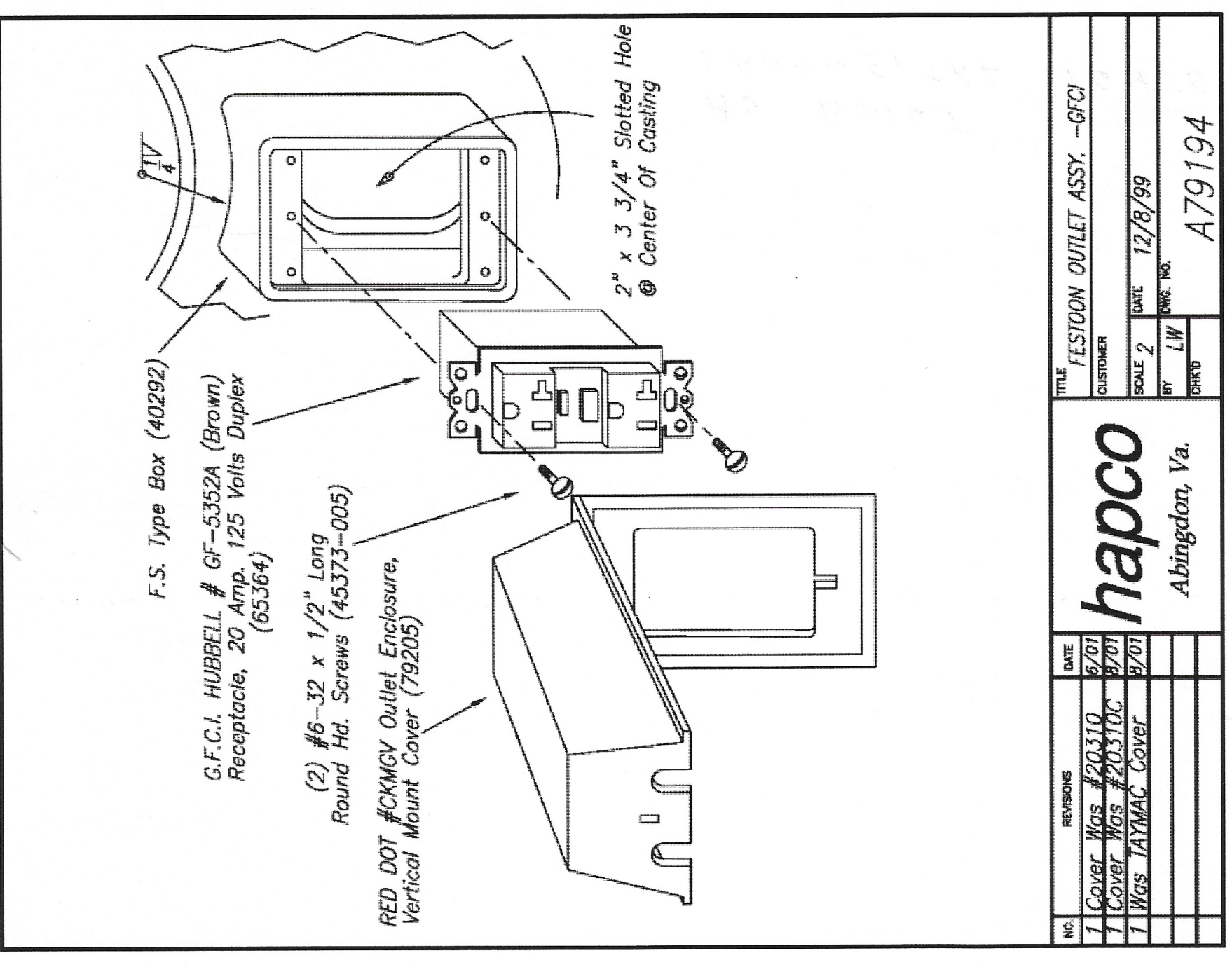
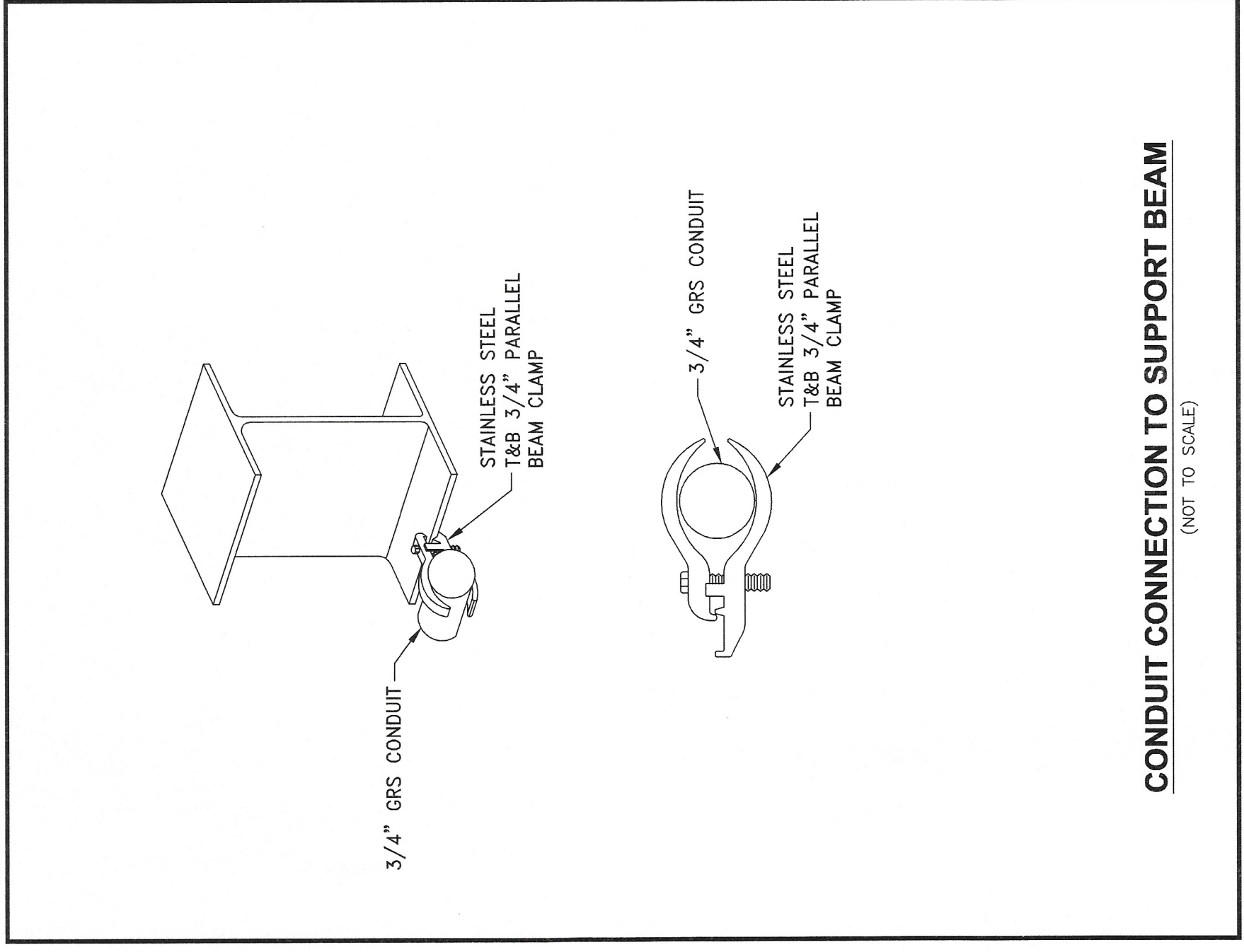
HIGH LEVEL WARNING DEVICE

FLAGGER TRAFFIC CONTROL SIGN

WORK LIMIT SIGNING

This signing is required for all projects over 3200 m (2 miles) or more in length.
ROAD CONSTRUCTION NEXT X MILES sign shall be placed 150 m (500') in advance of project limits.
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 3200 m (2 miles).

[illegible]



REVISIONS			
NO.	DATE	BY	DESCRIPTION
3	8/15/07	NRD	PER IDOT
4	9/4/07	NRD	PER NOVA ENG
5	10/14/07	NRD	PER IDOT
6	12/3/07	NRD	PER IDOT

[illegible]

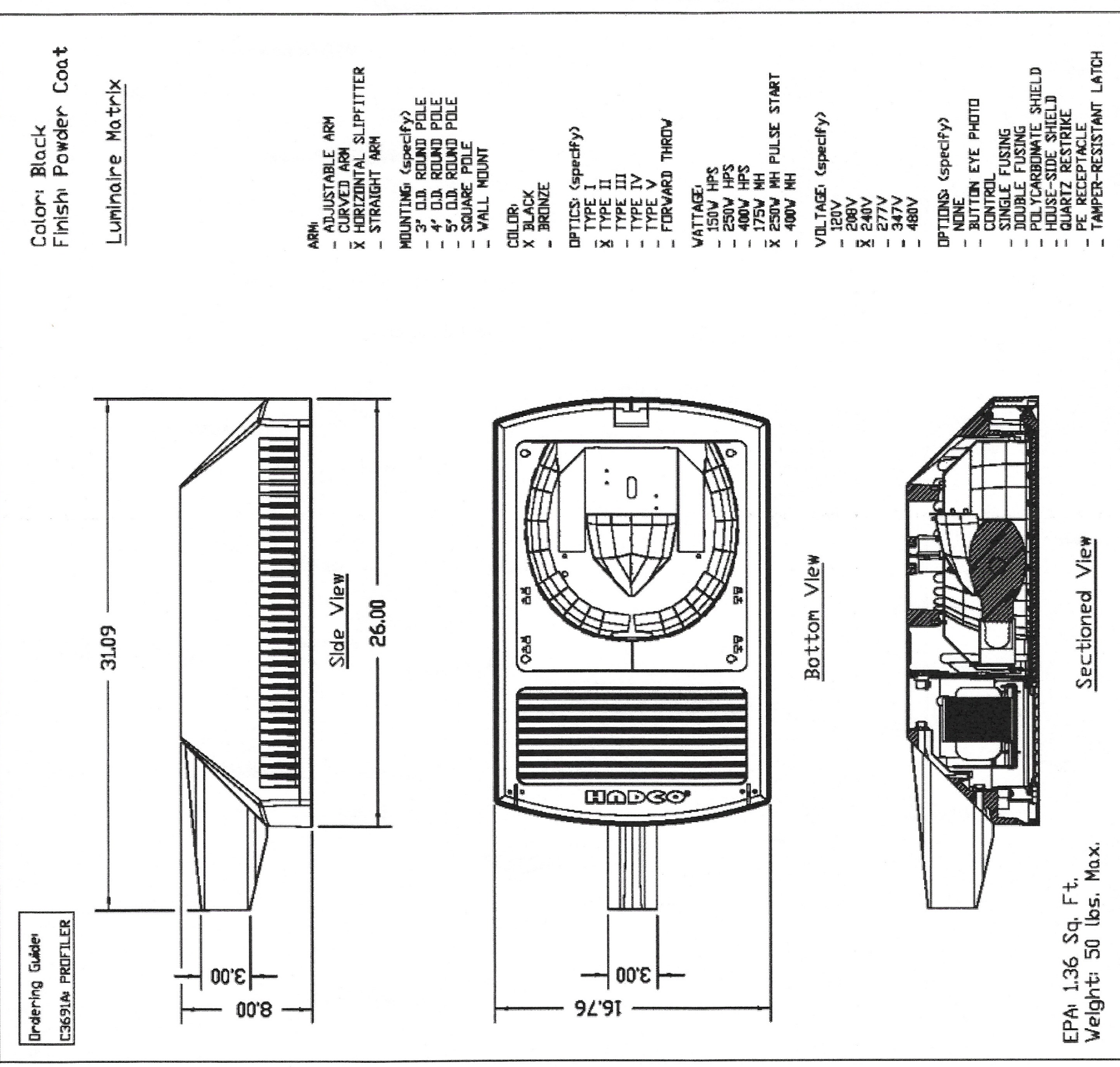
CITY OF KANKAKEE

PROJECT: PROPOSED ORNAMENTAL LIGHTING

COURT STREET FROM HARRISON AVE
TO EASTGATE INDUSTRIAL PARK

CONSTRUCTION DETAILS

DATE:	11/29/06	JOB NO. E05168
SCALE:	N/A	FILE NO.
DRAWN BY:	NRD	SHEET 16
CHECKED BY:	RJB	OF 16



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COURT STREET Court Street		BUILDING NUMBER C5981-DWGO1	
DATE 07/11/07		DRAWN BY SMMK	
REV. B		PO# 07-085	
ARCHIBALD & MEER		DATE 08/20/07	
SIGNED I: 6		REV. B	
PROJECT APPROVALS HANCO		REV. B	
CUST.		DATE 08/20/07	
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PRODUCT APPROVALS		SCALE:	DRAWN BY:
HABCO		1:8	07/11/07
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