

62842

F.A.I. RTE. 90/94	SECTION 2004-101 I	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 1
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

D-91-419-01

INDEX OF SHEETS

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PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 2004-101 I
PROJECT: IM-094-3(385)058
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE
COOK COUNTY
C-91-366-04

IDOT HIGHWAY STANDARDS

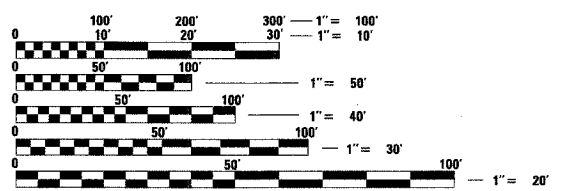
STANDARD	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES

PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

WENTWORTH AVE: 6259 (20) URBAN COLLECTOR
WELLS ST: 8275 (20) URBAN COLLECTOR

	ADT	DESIGN POSTED (2020)	SPEED	SPEED
FRONTAGE ROADS:				
WENTWORTH AVE	11,000	30	25	
WELLS ST	15,000	30	25	



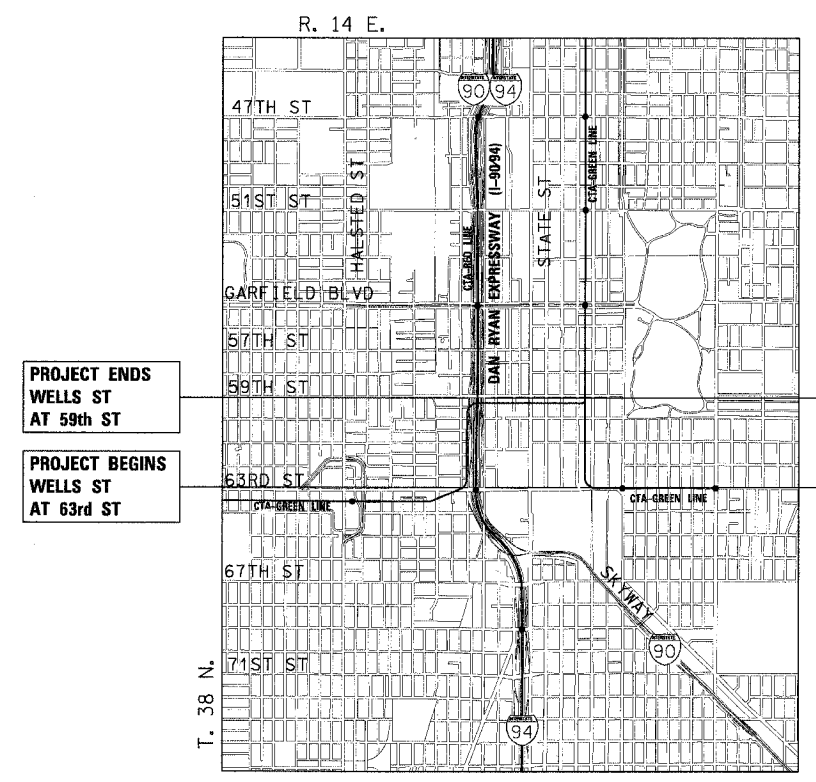
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

DIGGER:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

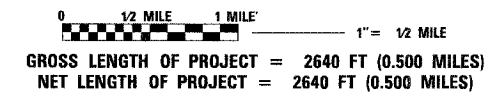
CONTRACT NO. 62842



LOCATION OF SECTION INDICATED THUS: -



LOCATION MAP



PROJECT ENDS WELLS ST AT 59th ST
PROJECT ENDS WENTWORTH AVE AT 59th ST
PROJECT BEGINS WELLS ST AT 63rd ST
PROJECT BEGINS WENTWORTH AVE AT 63rd ST

ROBERT M. GOVEIA
062-05534
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
1-16
SHEET NOS.
EXPIRES 11/30/05
DATE 2/2/05

JAMES P. COLEMAN
062-033912
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
17-22
SHEET NOS.
EXPIRES 11-30-2005
DATE 02-02-2005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 9, 20 05
Dina O'Keefe, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 25, 20 05
Mike Hine, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
March 25, 20 05
Victor Madenka
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

DISTRICT ONE DESIGNCONSULTANT SERVICES PROJECT MANAGER
RAJENDRA SHAH (847) 705-4437

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62842

GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH IDOT CONTRACT NOS.:
62693 - RECONSTRUCTION OF FRONTAGE ROADS, RETAINING WALLS, AND RAMPS BETWEEN 63rd STREET AND 59th STREET
62835 - SIDEWALKS AND DRIVEWAYS - WELLS STREET AND WENTWORTH AVENUE FROM 59th STREET TO 63rd STREET
62836 - FRONTAGE ROAD SIGNING - WELLS STREET AND WENTWORTH AVENUE FROM 59th STREET TO 63rd STREET
62839 - TRAFFIC SIGNALS AT 59th STREET AND WENTWORTH AVENUE/WELLS STREET
62840 - TRAFFIC SIGNALS AT 63rd STREET AND WENTWORTH AVENUE/WELLS STREET
2. THE WORK IN THIS CONTRACT SHALL BE INSTALLED WITHIN THE MAINTENANCE OF TRAFFIC PROVIDED IN THE IDOT CONTRACTS LISTED ABOVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH OTHER CONTRACTS AND PROVIDE ANY ADDITIONAL MAINTENANCE OF TRAFFIC AS NECESSARY.
3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "CUAN" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ADJUTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
9. ALL ELEVATIONS SHOWN ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION FACTOR FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.
10. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
11. THIS CONTRACT DOES NOT INCLUDE QUANTITIES FOR THE PAY ITEMS "SOIL STABILIZERS" AND "APPLYING DUST SUPPRESSION AGENTS". IT HAS BEEN DETERMINED THAT THESE ITEMS ARE NOT NEEDED FOR THE WORK ASSOCIATED WITH THIS CONTRACT. IF THE ENGINEER DETERMINES THAT THIS WORK IS NECESSARY, PAYMENT SHALL BE MADE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
12. ALL WORK MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CHICAGO ELECTRICAL CODE RULES AND ORDINANCES, CITY OF CHICAGO DEPARTMENT OF ELECTRICAL WIRING AND COMMUNICATIONS REQUIREMENTS, BUREAU OF BRIDGES, AND CHICAGO BUREAU OF ELECTRICITY (BOE) STANDARDS, DRAWINGS, DETAILS AND ALL APPLICABLE SPECIFICATIONS/REQUIREMENTS FOR COMPLETE AND APPROVED ROADWAY AND UNDERPASS LIGHTING INSTALLATIONS.
13. ALL INFORMATION FOR EXISTING ITEMS SHOWN ON THE DRAWINGS ARE BASED ON FIELD OBSERVATIONS AND/OR AVAILABLE DOCUMENTS, AND ARE NOT GUARANTEED TO BE COMPLETE AND/OR TOTALLY ACCURATE. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK AS PART OF THIS CONTRACT. INCLUDE IN THE PROPOSAL ANY RELOCATION OR ALTERATION OF EXISTING ELECTRICAL SYSTEMS, EQUIPMENT OR COMPONENTS WHICH ARE REQUIRED TO CLEAR THE NEW CONSTRUCTION, ADDITIONS OR ALTERATIONS TO BE PERFORMED.
14. _____
15. THE QUANTITIES OF ALL MATERIALS AS INDICATED ON THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR MUST FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO ORDERING MATERIALS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
16. THE CONTRACTOR IS RESPONSIBLE TO MARK THE PROPOSED LOCATIONS OF ALL FOUNDATIONS, HANDHOLES, MANHOLES, CONDUIT ROUTES, AND OTHER EQUIPMENT AND ITEMS FOR A CONTRACTOR REQUESTED PRE-CONSTRUCTION INSPECTION BY THE ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK. ANY WORK INSTALLED WITHOUT LOCATION APPROVAL WILL BE SUBJECT TO CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL NOT INSTALL ANY LIGHT POLE FOUNDATIONS UNTIL SUCH TIME AS THE LOCATION OF THE PROPOSED CURB HAS BEEN ESTABLISHED AND STAKED. COORDINATE THIS WORK WITH IDOT CONTRACT NO. 62693.
18. NO LIGHT POLE FOUNDATIONS OR HANDHOLES SHALL BE INSTALLED WITHIN THE LIMITS OF THE PROPOSED HANDICAP RAMPS. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ANY LIGHT POLE FOUNDATIONS OR HANDHOLES WITHIN THE LIMITS OF THE PROPOSED HANDICAP RAMPS WITH IDOT CONTRACT NO. 62835.
19. THE CONTRACTOR SHALL NOT DE-ENERGIZE ANY EXISTING ELECTRICAL EQUIPMENT WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

GENERAL NOTES (CONTINUED):

20. ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURB AND GUTTER, SIDEWALKS, AND WHERE RESTORATION IS NOT COVERED BY THE APPLICABLE SECTIONS OF THE SPECIFICATIONS, MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
21. NOTIFY THE UTILITY COMPANIES (SUCH AS COMED, CABLE TV, AMERITECH, ETC.) TO RELOCATE THEIR EXISTING EQUIPMENT LOCATED ON PUBLIC RIGHT OF WAY SPACES WHICH INTERFERE WITH THE PROPOSED WORK.
22. TRENCHED CONDUITS MUST BE INSTALLED AT A MINIMUM DEPTH OF 30" BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE ROOTS, ROADWAY SEWER DRAINS, SHEET PILING, AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR MUST INCREASE THE DEPTH OF TRENCH AND CONDUITS TO AVOID CONFLICTS AS REQUIRED AT NO ADDITIONAL COST TO IDOT.
23. GROUND RODS MUST BE INSTALLED FOR SERVICE GROUNDING AT LIGHTING CONTROLLER FOUNDATIONS AND AT EACH CONCRETE LIGHT POLE FOUNDATION.
24. CONNECTIONS TO THE GROUND RODS MUST BE MADE WITH EXOTHERMIC WELDS, CITY OF CHICAGO APPROVED. THE DRIVEN GROUND ROD ELECTRODES MUST HAVE A LOW RESISTANCE TO THE GROUND NOT TO EXCEED 25 OHMS.
25. THE CONTRACTOR MUST SCHEDULE A FINAL ACCEPTANCE INSPECTION WITH THE ENGINEER AND THE BOE UPON COMPLETION OF ALL PROPOSED LIGHTING WORK. UPON FINAL ACCEPTANCE, THE CONTRACTOR MUST TRANSFER ALL LIGHTING INSTALLATIONS TO THE BOE FOR MAINTENANCE PURPOSES.

GENERAL NOTES: CITY OF CHICAGO

1. IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT 312-747-7001.
2. BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT 1000 EAST OHIO, JARDINE WATER PURIFICATION PLANT, CHICAGO, IL 60611.
3. THE RESIDENT ENGINEER AND THE CONTRACTOR SHALL FIELD-VERIFY THE CITY'S EXISTING SEWER FACILITIES INCLUDING PUBLIC AND PRIVATE DRAIN CONNECTIONS IN THE LIMITS OF THE SUBJECT PROJECT FOR ANY CONFLICTS DUE TO THE PROPOSED IMPROVEMENTS. ANY CONFLICTS SHOULD BE RESOLVED WITH THE DEPARTMENT OF WATER MANAGEMENT PRIOR TO THE START OF CONSTRUCTION.

PROJECT COMMITMENTS:

1. IDOT WILL CONTINUE TO COORDINATE WITH THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION (CDOT) AND THE CHICAGO TRANSPORTATION AUTHORITY (CTA) USING THE "DAN RYAN EXPRESSWAY LANDSCAPE GUIDELINES", PREPARED BY CDOT AS GUIDELINES THROUGHOUT PHASE II OF THE PROJECT (PREPARATION OF CONTRACT PLANS) ON THE AESTHETICS AND LANDSCAPING TREATMENTS.
2. THE ILLINOIS STATE GEOLOGICAL SURVEY (ISGS) CONDUCTED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT (PESA) IN WHICH THEY ASSESSED A HIGH RISK FOR THE OCCURRENCE OF HAZARDOUS MATERIALS. A SPECIAL WASTE WAIVER HAS BEEN APPROVED WHICH ALLOWS DESIGN APPROVAL TO BE GRANTED PRIOR TO THE COMPLETION OF SPECIAL WASTE STUDIES. THERE ARE STILL OUTSTANDING SPECIAL WASTE ISSUES THAT MUST BE ADDRESSED. THE ENVIRONMENTAL STUDIES UNIT SHOULD BE CONTACTED AT (847) 705-4101 TO DISCUSS THESE ISSUES. TO DETERMINE THE IMPLICATIONS OF FUTURE DESIGN CHANGES, PLEASE REFER TO THE PESA REVIEW COVER MEMOS FOR ISGS #1106A, AS DEPICTED IN EXHIBIT 7 - SPECIAL WASTE WAIVER IN THE CLASS OF ACTION DETERMINATION (ECAD).



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63rd ST TO 59th ST (FRONTAGE ROADS) CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS WELLS STREET AND WENTWORTH AVENUE
NAME	DATE	
		GENERAL NOTES AND PROJECT COMMITMENTS

SCALE: NONE DRAWN BY: CJM
DATE: February 11, 2005 CHECKED BY: WDS

02/02/2005 09:30:58 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101	COOK	31	3
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62842				

ACTIVITY ID	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	2005												2006		
					MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
CONTRACT 9C (62693) - WENTWORTH AVENUE																			
PRE-STAGE - SEWER RELOCATION																			
1	INSTALL TRAFFIC CONTROL	02-May-05	06-May-05																
2	SEWER RELOCATION (STA. 112+88 TO STA. 126+58)	06-May-05	03-Jun-05																
STAGE 1 - RETAINING WALLS & PAVE INSIDE FRONTAGE																			
1	INSTALL TRAFFIC CONTROL	01-Jun-05	06-Jun-05																
2	CONSTRUCT PROPOSED RETAINING WALLS																		
a.	S.N. 016-W882	06-Jun-05	05-Aug-05																
b.	S.N. 016-W886	06-Jun-05	09-Sep-05																
c.	S.N. 016-W901	06-Jun-05	19-Aug-05																
d.	S.N. 016-W887/W965	06-Jun-05	02-Sep-05																
e.	S.N. 016-WWRR	06-Jun-05	19-Aug-05																
3	COMED RELOCATION (60TH STREET)	18-Jul-05	05-Aug-05																
4	SEWER RELOCATION (STA. 126+58 TO STA. 131+12)	06-Jun-05	22-Jun-05																
5	CONSTRUCT PROPOSED FRONTAGE ROAD	03-Aug-05	10-Oct-05																
6	CONSTRUCT 14" TEMPORARY PAVEMENT & CONCRETE RAMPS	05-Aug-05	14-Oct-05																
STAGE 2 - PAVE OUTSIDE FRONTAGE																			
1	INSTALL TRAFFIC CONTROL	17-Oct-05	24-Oct-05																
2	CONSTRUCT PROPOSED FRONTAGE ROAD	24-Oct-05	23-Nov-05																
CONTRACT 9C (62693) - WELLS STREET																			
STAGE 1 - RETAINING WALLS & PAVE INSIDE FRONTAGE																			
1	INSTALL TRAFFIC CONTROL	02-May-05	09-May-05																
2	CONSTRUCT PROPOSED RETAINING WALLS																		
a.	S.N. 016-W894/964	09-May-05	22-Jul-05																
b.	S.N. 016-W903/W906	09-May-05	05-Aug-05																
c.	S.N. 016-W907	09-May-05	05-Aug-05																
4	CONSTRUCT PROPOSED FRONTAGE ROAD	20-Jun-05	23-Sep-05																
5	CONSTRUCT 14" TEMPORARY PAVEMENT & CONCRETE RAMPS	20-Jun-05	23-Aug-05																
STAGE 2 - PAVE OUTSIDE FRONTAGE																			
1	INSTALL TRAFFIC CONTROL	23-Sep-05	29-Sep-05																
2	CONSTRUCT PROPOSED FRONTAGE ROAD	30-Sep-05	11-Nov-05																
CONTRACT 9C1 (62835) - SIDEWALKS & DRIVEWAYS																			
WENTWORTH AVENUE																			
1	CONSTRUCT PROPOSED SIDEWALKS & DRIVEWAYS	14-Nov-05	16-Dec-05																
WELLS STREET																			
1	CONSTRUCT PROPOSED SIDEWALKS & DRIVEWAYS	31-Oct-05	02-Dec-05																
CONTRACT 9C4 (62836) - FRONTAGE ROAD SIGNING																			
WENTWORTH AVENUE																			
1	REMOVE EXISTING SIGNING	01-Jun-05	10-Jun-05																
2	INSTALL NEW SIGNAGE / REINSTALL SIGNAGE	28-Nov-05	09-Dec-05																
WELLS STREET																			
1	REMOVE EXISTING SIGNING	02-May-05	13-May-05																
2	INSTALL NEW SIGNAGE / REINSTALL SIGNAGE	14-Nov-05	23-Nov-05																
CONTRACT 9C5 (62837) - FRONTAGE ROAD PAVEMENT MARKING																			
STAGE 2 - WENTWORTH AVENUE																			
1	INSTALL PERMANENT PAVEMENT MARKINGS	28-Nov-05	09-Dec-05																
STAGE 2 - WELLS STREET																			
1	INSTALL PERMANENT PAVEMENT MARKINGS	14-Nov-05	23-Nov-05																
CONTRACT 9C6 (62838) - TREE REMOVAL																			
WENTWORTH AVENUE																			
1	REMOVE EMBANKMENT TREES	02-May-05	13-May-05																
WELLS STREET																			
1	REMOVE EMBANKMENT TREES	25-Apr-05	06-May-05																
CONTRACT 9C7 (62839) - 59TH STREET TRAFFIC SIGNALS																			
59TH STREET & WENTWORTH AVENUE																			
1	INSTALL AND MAINTAIN TEMPORARY TRAFFIC SIGNALS, REMOVE EXISTING AND INSTALL NEW LIGHTING AND TRAFFIC SIGNALS	02-May-05	23-Nov-05																
59TH STREET & WELLS STREET																			
1	INSTALL AND MAINTAIN TEMPORARY TRAFFIC SIGNALS, REMOVE EXISTING AND INSTALL NEW LIGHTING AND TRAFFIC SIGNALS	02-May-05	11-Nov-05																

NOTE: DATES ASSOCIATED WITH WORK ITEMS MAY CHANGE BASED ON OTHER CONTRACTS AND/OR THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED DUE TO CHANGES OR EXTENSIONS IN THE SCHEDULE.



LEGEND:
 WORK PERFORMED IN CONTRACTS BY OTHERS
 WORK PERFORMED AS PART OF THIS CONTRACT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE
SUGGESTED CONSTRUCTION SCHEDULE

SCALE: NONE
DATE: February 11, 2005

DRAWN BY: AMM
CHECKED BY: RMG

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	5
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62842

SUMMARY OF QUANTITIES

URBAN
90% FED.
10% STATE

CODE NO.	ITEM	UNIT	QUANTITY	DOT WORK	
				LIGHTING	
				YC30-1E	
67100100	MOBILIZATION	L SUM	1		1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1
Z0076600	TRAINEES	HOUR			
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	3		3
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	205.6		205.6
80700110	GROUND ROD, 3/4" DIA. X 10'-0" LENGTH	EACH	40		40
X0324667	CONCRETE FOUNDATION, 20" DIAMETER, 1" ANCHOR RODS, 10" BOLT CIRCLE	FOOT	180		180
X0324668	CONCRETE FOUNDATION, 20" DIAMETER, 1" ANCHOR RODS, 10" BOLT CIRCLE, OFFSET	FOOT	65		65
X0323768	ELECTRICAL HANDHOLE, 30", 24" FRAME AND LID	EACH	17		17
Z0018940	DRILL EXISTING MANHOLE OR HANDHOLE	EACH	2		2
X0324435	CLEAN EXISTING MANHOLE OR HANDHOLE	EACH	2		2
X0324662	CONDUIT, POLYETHYLENE, DIRECTIONAL BORING, 1.25"	FOOT	4389		4389
X0324934	CONDUIT, POLYETHYLENE, DIRECTIONAL BORING, 2"	FOOT	196		196
X0320001	PVC CONDUIT IN TRENCH, 2" DIA. (SCHEDULE 40)	FOOT	61		61
X0324478	PVC CONDUIT IN TRENCH, 3" DIA. (SCHEDULE 40)	FOOT	74		74
81000600	CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL	FOOT	10		10
X0324935	CONDUIT ELBOW, 1.25" DIA. GALVANIZED STEEL	EACH	1		1
X0329863	INTERCEPT EXISTING CONDUIT	EACH	1		1
X0324354	TRENCH AND BACKFILL WITH SCREENING AND/OR SAND	FOOT	145		145
X8950075	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1		1
84200500	REMOVE EXISTING LIGHTING UNIT AND SALVAGE	EACH	47		47
X0324434	REMOVE EXISTING STREET LIGHTING UNIT FOUNDATION	EACH	27		27

NON-PARTICIPATING
~~0-4088~~

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: February 11, 2005
DRAWN BY: CJM
CHECKED BY: WDS



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CURVE COLLNB01

P.I. STA= 17+15.43
N= 1,858,574.87
E= 1,177,378.55
Delta= 2° 07' 33"
D= 0° 28' 38"
R= 12,000.00'
T= 222.67'
L= 445.29
E= 2.06'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 14+92.76
N= 1,858,352.21
E= 1,177,377.25
P.T. STA= 19+38.05
N= 1,858,797.43
E= 1,177,371.58

CURVE COLLNB02

P.I. STA= 25+45.61
N= 1,859,404.70
E= 1,177,352.58
Delta= 1° 17' 10"
D= 0° 24' 33"
R= 14,000.00'
T= 157.14'
L= 314.27
E= 0.88'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 23+88.47
N= 1,859,247.63
E= 1,177,357.49
P.T. STA= 27+02.74
N= 1,859,561.83
E= 1,177,351.19

CURVE COLLNB03

P.I. STA= 28+45.20
N= 1,859,704.28
E= 1,177,349.93
Delta= 1° 09' 57"
D= 0° 24' 33"
R= 14,000.00'
T= 142.45'
L= 284.90
E= 0.72'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 27+02.74
N= 1,859,561.83
E= 1,177,351.19
P.T. STA= 29+87.65
N= 1,859,846.68
E= 1,177,345.77

CURVE COLLSB01

P.I. STA= 62+03.18
N= 1,858,576.31
E= 1,177,181.55
Delta= 0° 45' 55"
D= 0° 14' 56"
R= 23,000.00'
T= 153.61'
L= 307.23
E= 0.51'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 60+49.56
N= 1,858,422.76
E= 1,177,186.19
P.T. STA= 63+56.79
N= 1,858,729.78
E= 1,177,174.87

CURVE COLLSB02

P.I. STA= 70+53.37
N= 1,859,425.70
E= 1,177,144.56
Delta= 0° 22' 48"
D= 0° 14' 56"
R= 40,000.00'
T= 132.70'
L= 265.40
E= 0.22'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 69+20.67
N= 1,859,293.13
E= 1,177,150.34
P.T. STA= 71+86.08
N= 1,859,558.24
E= 1,177,137.91

CURVE COLLSB03

P.I. STA= 81+04.03
N= 1,860,475.04
E= 1,177,091.89
Delta= 8° 56' 14"
D= 0° 14' 56"
R= 1,766.00'
T= 138.01'
L= 275.46
E= 5.38'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 79+66.02
N= 1,860,337.20
E= 1,177,098.81
P.T. STA= 82+41.49
N= 1,860,610.14
E= 1,177,063.64

CURVE SBRMPO1

P.I. STA= 7107+24.23
N= 1,859,529.38
E= 1,177,115.44
Delta= 5° 33' 25"
D= 2° 51' 53"
R= 2,000.00'
T= 97.06'
L= 193.98
E= 2.35'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7106+27.17
N= 1,859,625.44
E= 1,177,101.51
P.T. STA= 7108+21.14
N= 1,859,432.42
E= 1,177,120.01

CURVE SBRMPO2

P.I. STA= 7108+91.39
N= 1,859,362.26
E= 1,177,123.31
Delta= 0° 12' 05"
D= 0° 08' 36"
R= 39,975.44'
T= 70.24'
L= 140.48
E= 0.06'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7108+21.14
N= 1,859,432.42
E= 1,177,120.01
P.T. STA= 7109+61.63
N= 1,859,292.09
E= 1,177,126.36

CURVE SBRMPO3

P.I. STA= 7110+86.37
N= 1,859,167.46
E= 1,177,131.79
Delta= 6° 54' 42"
D= 3° 49' 11"
R= 1,500.00'
T= 90.58'
L= 180.95
E= 2.73'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7109+95.79
N= 1,859,257.95
E= 1,177,127.85
P.T. STA= 7111+76.74
N= 1,859,077.14
E= 1,177,124.81

CURVE SBRMPO4

P.I. STA= 7119+30.94
N= 1,858,325.18
E= 1,177,066.71
Delta= 5° 56' 51"
D= 28° 38' 52"
R= 200.00'
T= 10.39'
L= 20.76
E= 0.27'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7119+20.55
N= 1,858,335.54
E= 1,177,067.52
P.T. STA= 7119+41.31
N= 1,858,314.79
E= 1,177,066.99

Table with columns: F.A.I. RT#, SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 90/94, 2004-101 1, COOK, 31, 6

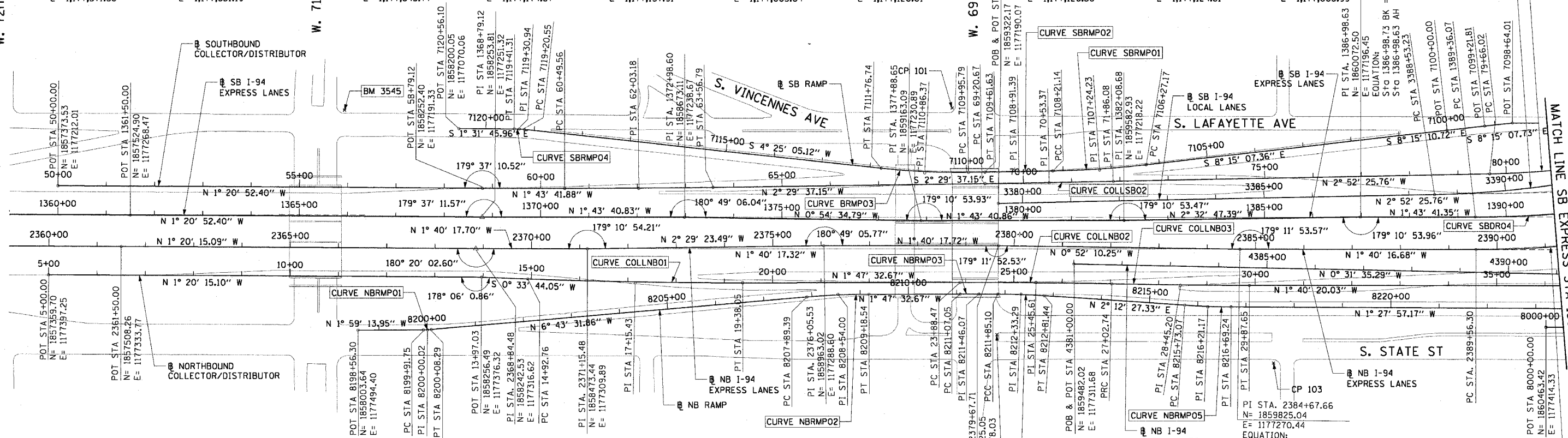
62842

W. 72nd ST

W. 71st ST

W. 69th ST

MATCH LINE SB EXPRESS STA 1391+00



- BENCH MARK NO. 3528 ELEV. 16.20
DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE
BENCH MARK NO. 3530 ELEV. 18.18
DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST

- BENCH MARK NO. 3535 ELEV. 19.31
DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE
BENCH MARK NO. 3536 ELEV. 18.37
DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE

- CURVE NBRMPO1
P.I. STA= 8200+00.02
N= 1,858,147.27
E= 1,177,489.42
Delta= 4° 44' 18"
D= 28° 38' 52"
R= 200.00'
T= 8.27'
L= 16.54
E= 0.17'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8199+91.75
N= 1,858,139.01
E= 1,177,489.70
P.T. STA= 8200+00.29
N= 1,858,155.49
E= 1,177,488.45

- CURVE NBRMPO5
P.I. STA= 8216+21.17
N= 1,859,762.21
E= 1,177,392.97
Delta= 3° 40' 25"
D= 3° 49' 11"
R= 1,500.00'
T= 48.10'
L= 96.17'
E= 0.77'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8215+73.07
N= 1,859,714.14
E= 1,177,391.11
P.T. STA= 8216+69.24
N= 1,859,810.29
E= 1,177,391.74

NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360

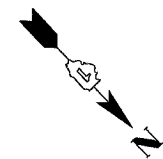
Table with columns: REVISIONS, NAME, DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE
ALIGNMENT PLAN
SCALE: 1"=100'
DATE: February 11, 2005
DRAWN BY: NJH/AMM
CHECKED BY: JAL/JMS



Vertical text on the right edge: 90/94-101-1-COOK-31-6-62842

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	7
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62842				



CURVE LAFAYO1
P.I. STA= 6014+47.81
N= 1,860,720.67
E= 1,176,979.33
Δ= 22° 19' 50"
D= 11° 09' 07"
R= 513.76'
T= 101.40'
L= 200.23'
E= 9.91'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6013+46.41
N= 1,860,619.35
E= 1,176,983.37
P.T. STA= 6015+46.64
N= 1,860,812.86
E= 1,176,937.10

CURVE LAFAYO2
P.I. STA= 6020+11.56
N= 1,861,233.77
E= 1,176,739.65
Δ= 66° 24' 16"
D= 50° 15' 34"
R= 114.00'
T= 74.60'
L= 132.12'
E= 22.24'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6019+36.96
N= 1,861,166.23
E= 1,176,771.34
P.T. STA= 6020+69.08
N= 1,861,231.77
E= 1,176,665.07

CURVE COLLNB04
P.I. STA= 41+08.35
N= 1,860,967.08
E= 1,177,322.03
Δ= 29° 07' 47"
D= 3° 19' 24"
R= 1,724.00'
T= 447.94'
L= 876.49'
E= 57.24'
e= 5.9%
T.R.= 41'
S.E. RUN= 210' (236.93')
P.C. STA= 36+60.41
N= 1,860,519.16
E= 1,177,326.14
P.T. STA= 45+36.91
N= 1,861,356.34
E= 1,177,100.39

CURVE COLLSB03
P.I. STA= 81+04.03
N= 1,860,475.04
E= 1,177,091.89
Δ= 8° 56' 14"
D= 3° 14' 39"
R= 1,766.00'
T= 138.01'
L= 275.46'
E= 5.38'
e= 5.63%
T.R.= N/A
S.E. RUN= 200.00'
P.C. STA= 79+66.02
N= 1,860,337.20
E= 1,177,098.81
P.T. STA= 82+41.49
N= 1,860,610.14
E= 1,177,063.64

CURVE COLLSB04
P.I. STA= 83+22.94
N= 1,860,689.19
E= 1,177,044.03
Δ= 4° 35' 34"
D= 2° 49' 15"
R= 2,031.00'
T= 81.44'
L= 162.81'
E= 1.63'
e= 5.5%
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 82+41.49
N= 1,860,610.14
E= 1,177,063.64
P.T. STA= 84+04.30
N= 1,860,766.42
E= 1,177,018.16

CURVE COLLSB05
P.I. STA= 86+99.51
N= 1,861,046.34
E= 1,176,924.37
Δ= 20° 54' 28"
D= 3° 34' 51"
R= 1,600.00'
T= 295.21'
L= 583.86'
E= 27.00'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 84+04.30
N= 1,860,766.42
E= 1,177,018.16
P.T. STA= 89+88.16
N= 1,861,274.37
E= 1,176,736.87

CURVE NBLOCO1
P.I. STA= 4398+91.75
N= 1,861,273.69
E= 1,177,295.21
Δ= 47° 52' 53"
D= 3° 22' 13"
R= 1700.00'
T= 754.78'
L= 1420.67'
E= 160.03'
e= 5.9%
T.R.= 41'
S.E. RUN= 210' (236.93')
P.C. STA= 4391+36.97
N= 1,860,518.94
E= 1,177,302.15
P.T. STA= 4405+57.64
N= 1,861,774.74
E= 1,176,730.72

CURVE NBDRO3
P.I. STA= 2398+13.58
N= 1,861,170.38
E= 1,177,231.19
Δ= 44° 36' 17"
D= 2° 44' 29"
R= 2090.00'
T= 857.27'
L= 1627.06'
E= 168.99'
e= 5.5%
T.R.= 41' (41')
S.E. RUN= 196' (274.66')
P.C. STA= 2389+56.30
N= 1,860,313.48
E= 1,177,256.19
P.T. STA= 2405+83.37
N= 1,861,762.92
E= 1,176,611.65

CURVE WBSKYLO1
P.I. STA= 6057+27.06
N= 1,861,427.27
E= 1,177,209.11
Δ= 41° 36' 43"
D= 2° 17' 09"
R= 911.50'
T= 346.35'
L= 661.99'
E= 63.59'
e= 6.0%
T.R.= N/A
S.E. RUN= 129' (129')
P.C. STA= 6053+80.71
N= 1,861,427.39
E= 1,177,555.47
P.T. STA= 6060+42.70
N= 1,861,657.19
E= 1,176,950.08

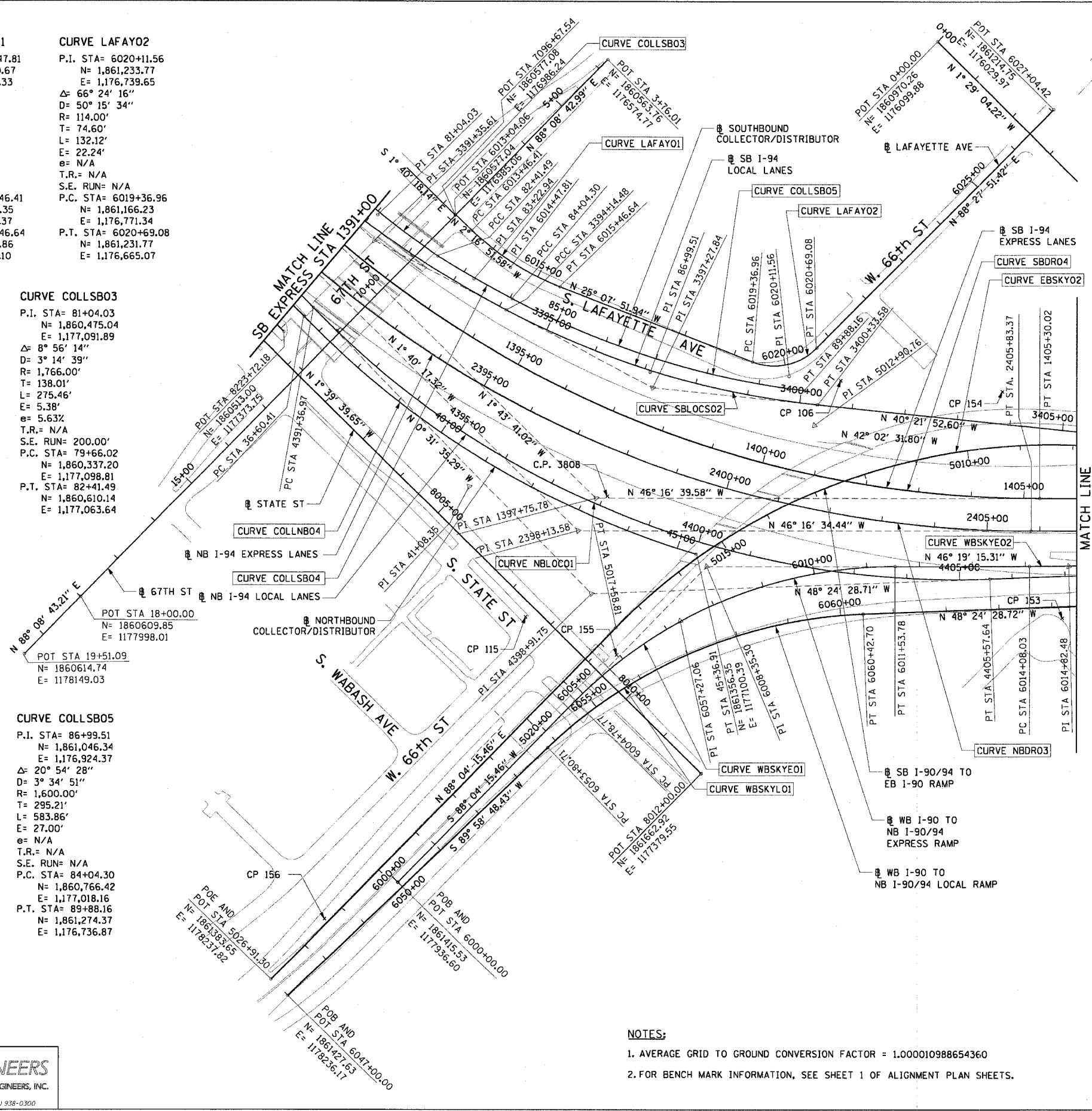
CURVE WBSKYE01
P.I. STA= 6008+35.30
N= 1,861,387.41
E= 1,177,101.77
Δ= 45° 36' 29"
D= 6° 45' 24"
R= 848.00'
T= 356.54'
L= 675.02'
E= 71.90'
e= 6.0%
T.R.= N/A
S.E. RUN= 96' (179.23')
P.C. STA= 6004+78.77
N= 1,861,399.41
E= 1,177,458.10
P.T. STA= 6011+53.78
N= 1,861,633.64
E= 1,176,843.91

CURVE WBSKYE02
P.I. STA= 6014+82.48
N= 1,861,860.65
E= 1,176,606.19
Δ= 2° 30' 00"
D= 1° 40' 45"
R= 3412.00'
T= 74.45'
L= 148.88'
E= 0.81'
e= 3.1%
T.R.= N/A
S.E. RUN= 138.58' (80.76')
P.C. STA= 6014+08.03
N= 1,861,809.23
E= 1,176,660.04
P.T. STA= 6015+56.91
N= 1,861,909.67
E= 1,176,550.16

CURVE SBLOCS02
P.I. STA= 3397+27.84
N= 1,861,071.17
E= 1,176,941.37
Δ= 21° 50' 32"
D= 3° 31' 41"
R= 1624.00'
T= 313.36'
L= 619.10'
E= 29.96'
e= 6.0%
T.R.= 41'
S.E. RUN= 213'
P.C. STA= 3394+14.48
N= 1,860,774.05
E= 1,177,040.92
P.T. STA= 3400+33.58
N= 1,861,309.93
E= 1,176,738.43

CURVE EBSKY02
P.I. STA= 5012+90.76
N= 1,861,334.19
E= 1,176,769.43
Δ= 49° 53' 13"
D= 4° 57' 54"
R= 1154.00'
T= 536.73'
L= 1004.78'
E= 118.71'
e= 5.6%
T.R.= 48' (96')
S.E. RUN= 135' (135')
P.C. STA= 5007+54.03
N= 1,861,732.80
E= 1,176,409.99
P.T. STA= 5017+58.81
N= 1,861,352.26
E= 1,177,305.85

CURVE SBDR04
P.I. STA= 1397+75.78
N= 1,861,149.16
E= 1,177,163.97
Δ= 44° 32' 59"
D= 2° 47' 42"
R= 2050.00'
T= 839.71'
L= 1593.95'
E= 165.31'
e= 5.5%
T.R.= 96'
S.E. RUN= 226' (244.83')
P.C. STA= 1389+36.07
N= 1,860,309.83
E= 1,177,189.29
P.T. STA= 1405+30.02
N= 1,861,729.54
E= 1,176,557.11



NOTES:

1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005

DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



02/10/2005 09:30:49 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	8
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62842				

CURVE EKWELLO1
P.I. STA= 9+04.39
N= 1,861,874.35
E= 1,176,076.45
Δ= 10° 52' 16"
D= 5° 40' 05"
R= 1,010.83'
T= 96.18'
L= 191.79'
E= 4.56'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8+08.21
N= 1,861,778.19
E= 1,176,078.94
P.T. STA= 10+00.00
N= 1,861,968.30
E= 1,176,055.87

CURVE EKWELLO2
P.I. STA= 10+99.36
N= 1,862,065.35
E= 1,176,034.61
Δ= 23° 41' 58"
D= 21° 47' 07"
R= 263.00'
T= 55.18'
L= 108.78'
E= 4.56'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 10+44.17
N= 1,862,011.45
E= 1,176,002.13
P.T. STA= 11+52.96
N= 1,862,109.97
E= 1,176,002.13

CURVE EKWELLO3
P.I. STA= 12+18.75
N= 1,862,163.15
E= 1,175,963.41
Δ= 2° 58' 46"
D= 2° 15' 54"
R= 2,529.60'
T= 65.78'
L= 131.54'
E= 0.85'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 11+52.96
N= 1,862,109.97
E= 1,176,002.13
P.T. STA= 12+84.51
N= 1,862,218.28
E= 1,175,927.50

CURVE EKWELLO4
P.I. STA= 13+72.28
N= 1,862,291.83
E= 1,175,879.60
Δ= 5° 48' 38"
D= 3° 18' 45"
R= 1,729.58'
T= 87.77'
L= 175.40'
E= 2.22'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 12+84.51
N= 1,862,218.28
E= 1,175,927.50
P.T. STA= 14+59.61
N= 1,862,369.86
E= 1,175,839.39

CURVE EKWELLO5
P.I. STA= 19+10.50
N= 1,862,770.39
E= 1,175,632.97
Δ= 12° 45' 31"
D= 6° 11' 38"
R= 925.00'
T= 103.41'
L= 205.97'
E= 5.76'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 18+07.09
N= 1,862,678.46
E= 1,175,680.34
P.T. STA= 20+13.07
N= 1,862,870.51
E= 1,175,607.06

CURVE EKWELLO6
P.I. STA= 21+01.89
N= 1,862,957.45
E= 1,175,589.82
Δ= 5° 16' 59"
D= 6° 48' 23"
R= 841.78'
T= 38.83'
L= 77.62'
E= 0.89'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 20+63.05
N= 1,862,918.90
E= 1,175,594.54
P.T. STA= 21+40.67
N= 1,862,996.27
E= 1,175,588.66

SPIRAL NBDRO1B
P.I. STA= 2410+35.55
N= 1,862,075.46
E= 1,176,284.87
Δ= 6° 30' 41"
LS= 348.44'
YS= 13.19'
XS= 347.99'
P= 3.30'
K= 174.15'
LT= 232.45'
ST= 116.29'
LC= 348.24'
T.S. STA= 2408+03.10
N= 1,861,914.79
E= 1,176,452.86
S.C. STA= 2411+51.54
N= 1,862,164.85
E= 1,176,210.49

CURVE EBSKY01
P.I. STA= 5001+75.92
N= 1,862,163.03
E= 1,176,022.04
Δ= 11° 35' 10"
D= 3° 18' 15"
R= 1734.00'
T= 175.92'
L= 350.64'
E= 8.90'
e= 5.62'
T.R.= 41' (96')
S.E. RUN= 135'
P.C. STA= 5000+00.00
N= 1,862,314.67
E= 1,175,932.87
P.T. STA= 5003+50.64
N= 1,862,032.38
E= 1,176,139.85

CURVE SBLOCS03
P.I. STA= 3411+09.43
N= 1,862,129.66
E= 1,176,041.66
Δ= 9° 54' 30"
D= 2° 18' 51"
R= 2476.00'
T= 214.63'
L= 428.19'
E= 9.29'
e= 5.02'
T.R.= 41'
S.E. RUN= 205'
P.C. STA= 3408+94.80
N= 1,861,966.12
E= 1,176,180.66
P.T. STA= 3413+22.99
N= 1,862,314.67
E= 1,175,932.87

CURVE SBDR05
P.I. STA= 1415+93.26
N= 1,862,464.42
E= 1,175,788.71
Δ= 44° 41' 46"
D= 3° 15' 20"
R= 1760.00'
T= 723.55'
L= 1372.97'
E= 142.93'
e= 5.92'
T.R.= 41' (41')
S.E. RUN= 262.17' (242')
P.C. STA= 1408+69.71
N= 1,861,964.32
E= 1,175,311.62
P.T. STA= 1422+42.67
N= 1,863,187.69
E= 1,175,768.74

CURVE SBLOCS04
P.I. STA= 3417+65.48
N= 1,862,696.11
E= 1,175,708.58
Δ= 28° 37' 52"
D= 3° 18' 15"
R= 1734.00'
T= 442.49'
L= 866.49'
E= 55.57'
e= 5.92'
T.R.= (41')
S.E. RUN= (242')
P.C. STA= 3413+22.99
N= 1,862,314.67
E= 1,175,932.87
P.T. STA= 3421+89.48
N= 1,863,138.37
E= 1,175,694.49

CURVE WBSKYE03
P.I. STA= 6018+27.62
N= 1,862,087.91
E= 1,176,346.40
Δ= 5° 51' 27"
D= 2° 16' 48"
R= 2513.00'
T= 128.57'
L= 256.91'
E= 3.29'
e= 6.02'
T.R.= N/A
S.E. RUN= 156.14' (145')
P.C. STA= 6016+99.05
N= 1,862,003.26
E= 1,176,443.17
P.T. STA= 6019+55.97
N= 1,862,181.99
E= 1,176,258.78

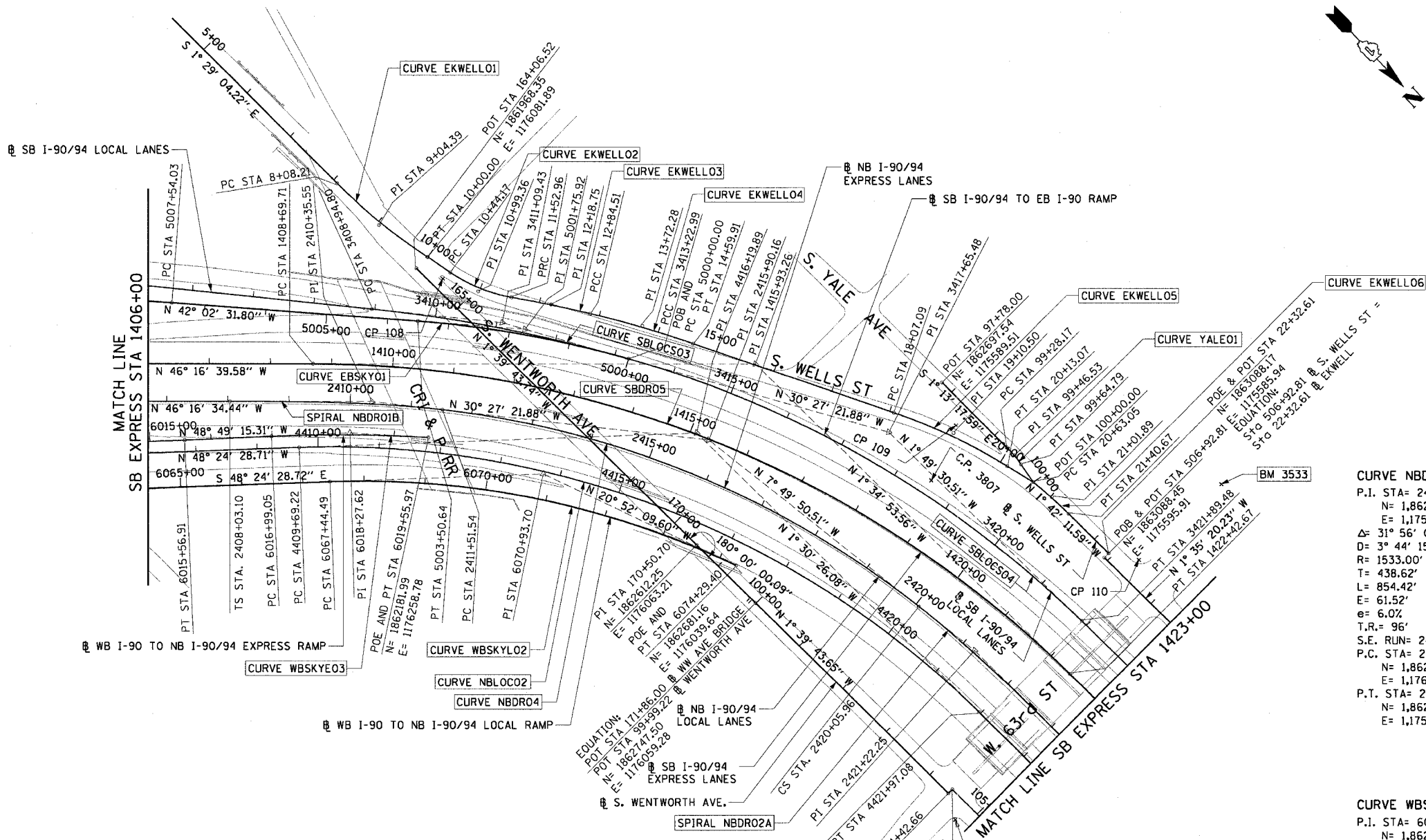
CURVE NBLOCO2
P.I. STA= 4416+19.89
N= 1,862,479.88
E= 1,175,936.27
Δ= 46° 54' 02"
D= 3° 49' 11"
R= 1500.00'
T= 650.67'
L= 1227.85'
E= 135.05'
e= 6.02'
T.R.= 41' (96')
S.E. RUN= 277.55' (246')
P.C. STA= 4409+69.22
N= 1,862,047.95
E= 1,176,422.90
P.T. STA= 4421+97.08
N= 1,863,130.33
E= 1,175,919.15

SPIRAL NBDRO2A
P.I. STA= 2421+22.25
N= 1,863,051.74
E= 1,175,854.32
Δ= 6° 30' 41"
LS= 348.44'
YS= 13.19'
XS= 347.99'
P= 3.30'
K= 174.15'
LT= 232.45'
ST= 116.29'
LC= 348.24'
C.S. STA= 2420+05.96
N= 1,862,936.54
E= 1,175,870.16
S.T. STA= 2423+54.40
N= 1,863,284.13
E= 1,175,848.97

CURVE NBDRO4
P.I. STA= 2415+90.16
N= 1,862,502.01
E= 1,175,929.93
Δ= 31° 56' 02"
D= 3° 44' 15"
R= 1533.00'
T= 438.62'
L= 854.42'
E= 61.52'
e= 6.02'
T.R.= 96'
S.E. RUN= 246'
P.C. STA= 2411+51.54
N= 1,862,164.85
E= 1,176,210.49
P.T. STA= 2420+05.96
N= 1,862,936.54
E= 1,175,870.16

CURVE WBSKYLO2
P.I. STA= 6070+93.70
N= 1,862,354.86
E= 1,176,164.04
Δ= 27° 32' 19"
D= 4° 01' 15"
R= 1425.00'
T= 349.20'
L= 684.91'
E= 42.16'
e= 6.02'
T.R.= N/A
S.E. RUN= 129'
P.C. STA= 6067+44.49
N= 1,862,123.05
E= 1,176,425.21
P.T. STA= 6074+29.40
N= 1,862,681.16
E= 1,176,039.64

CURVE YALE01
P.I. STA= 99+46.53
N= 1,862,866.03
E= 1,175,585.91
Δ= 10° 29' 32"
D= 28° 38' 52"
R= 200.00'
T= 18.36'
L= 36.62'
E= 0.84'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 99+28.17
N= 1,862,847.67
E= 1,175,586.30
P.T. STA= 99+64.79
N= 1,862,884.15
E= 1,175,588.87



- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005

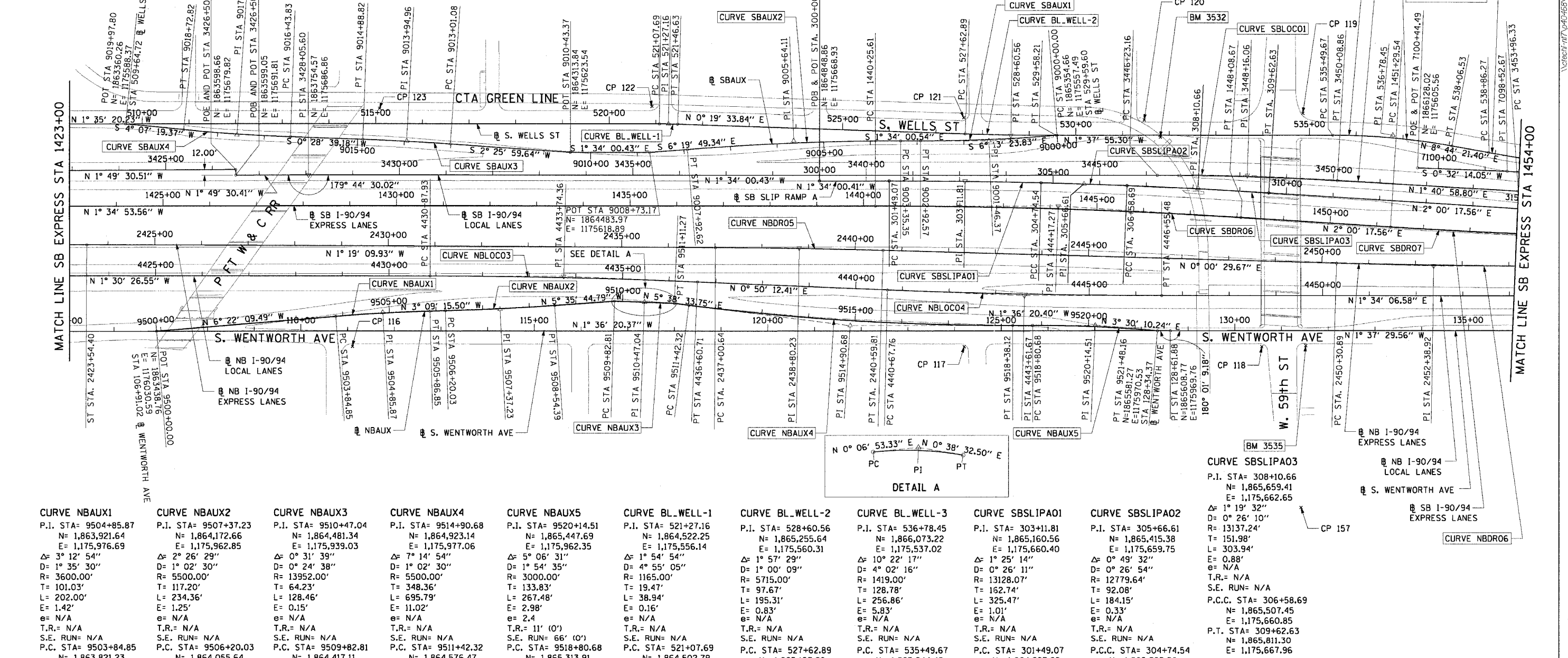
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



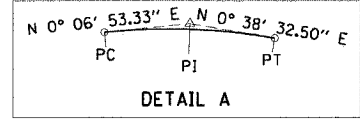
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	9
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				

CURVE SBAUX1	CURVE SBAUX2	CURVE SBAUX3	CURVE SBAUX4	CURVE SBLOCO1	CURVE SBDR06	CURVE SBDR07	CURVE NBDR05	CURVE NBDR06	CURVE NBLOCO3	CURVE NBLOCO4
P.I. STA= 9001+46.37 N= 1,865,209.16 E= 1,175,573.36 Δ= 4° 39' 23" D= 1° 35' 30" R= 3600.00' T= 146.37' L= 292.57' E= 2.97' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9000+00.00 N= 1,865,354.66 E= 1,175,557.49 P.T. STA= 9002+92.57 N= 1,865,062.84 E= 1,175,577.36	P.I. STA= 9005+64.11 N= 1,864,791.41 E= 1,175,584.78 Δ= 4° 45' 49" D= 1° 02' 30" R= 5500.00' T= 228.77' L= 457.27' E= 4.76' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9003+35.35 N= 1,865,020.09 E= 1,175,578.53 P.T. STA= 9007+92.62 N= 1,864,564.03 E= 1,175,610.01	P.I. STA= 9013+94.96 N= 1,863,962.56 E= 1,175,608.62 Δ= 1° 57' 20" D= 1° 02' 30" R= 5500.00' T= 93.88' L= 187.72' E= 0.80' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9013+01.08 N= 1,863,962.56 E= 1,175,612.60 P.T. STA= 9014+88.82 N= 1,863,868.69 E= 1,175,607.83	P.I. STA= 9017+58.36 N= 1,863,599.16 E= 1,175,605.59 Δ= 3° 38' 40" D= 1° 35' 30" R= 3600.00' T= 114.53' L= 228.99' E= 1.82' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9016+43.83 N= 1,863,713.69 E= 1,175,606.54 P.T. STA= 9018+72.82 N= 1,863,484.92 E= 1,175,597.35	P.I. STA= 3448+16.06 N= 1,865,764.28 E= 1,175,631.89 Δ= 3° 14' 59" D= 0° 50' 33" R= 6800.00' T= 192.90' L= 385.69' E= 1.82' e= 2.5% T.R.= 41' (41') S.E. RUN= 103' (103') P.C. STA= 3446+23.16 N= 1,865,571.45 E= 1,175,637.16 P.T. STA= 3450+08.86 N= 1,865,957.09 E= 1,175,637.55	P.I. STA= 1444+17.27 N= 1,865,361.46 E= 1,175,708.72 Δ= 3° 35' 11" D= 0° 27' 29" R= 12510.00' T= 391.66' L= 783.06' E= 2.74' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 1440+25.61 N= 1,864,969.95 E= 1,175,719.53 P.T. STA= 1448+08.67 N= 1,865,752.88 E= 1,175,722.42	P.I. STA= 1455+16.63 N= 1,866,460.40 E= 1,175,747.19 Δ= 3° 33' 01" D= 0° 27' 31" R= 12490.00' T= 387.09' L= 773.94' E= 6.00' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 1451+29.54 N= 1,866,073.55 E= 1,175,733.65 P.T. STA= 1459+03.48 N= 1,866,847.36 E= 1,175,736.75	P.I. STA= 2438+80.23 N= 1,864,809.56 E= 1,175,813.83 Δ= 1° 19' 40" D= 0° 22' 11" R= 15500.00' T= 179.59' L= 359.17' E= 1.04' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 2437+00.64 N= 1,864,630.24 E= 1,175,817.97 P.T. STA= 2440+59.81 N= 1,864,989.16 E= 1,175,813.86	P.I. STA= 2452+38.92 N= 1,866,168.26 E= 1,175,814.03 Δ= 1° 35' 21" D= 0° 22' 55" R= 15000.00' T= 208.03' L= 416.02' E= 1.44' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 2450+30.89 N= 1,865,960.24 E= 1,175,814.00 P.T. STA= 2454+46.92 N= 1,866,376.21 E= 1,175,808.29	P.I. STA= 4433+74.36 N= 1,864,307.20 E= 1,175,888.18 Δ= 2° 20' 39" D= 0° 24' 33" R= 14000.00' T= 286.43' L= 572.79' E= 2.93' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 4430+87.93 N= 1,864,020.87 E= 1,175,895.72 P.T. STA= 4436+60.71 N= 1,864,593.61 E= 1,175,892.37	P.I. STA= 4443+61.67 N= 1,865,294.49 E= 1,175,902.60 Δ= 2° 24' 19" D= 0° 24' 33" R= 14000.00' T= 293.90' L= 587.72' E= 3.08' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 4440+67.76 N= 1,865,000.61 E= 1,175,898.31 P.T. STA= 4446+55.48 N= 1,865,588.28 E= 1,175,894.56



CURVE NBAUX1	CURVE NBAUX2	CURVE NBAUX3	CURVE NBAUX4	CURVE NBAUX5	CURVE BL-WELL-1	CURVE BL-WELL-2	CURVE BL-WELL-3	CURVE SBSLIPA01	CURVE SBSLIPA02	CURVE SBSLIPA03
P.I. STA= 9504+85.87 N= 1,863,921.64 E= 1,175,976.69 Δ= 3° 12' 54" D= 1° 35' 30" R= 3600.00' T= 101.03' L= 202.00' E= 1.42' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9503+84.85 N= 1,863,821.23 E= 1,175,987.89 P.T. STA= 9505+86.85 N= 1,864,022.51 E= 1,175,971.13	P.I. STA= 9507+37.23 N= 1,864,172.66 E= 1,175,962.85 Δ= 2° 26' 29" D= 1° 02' 30" R= 5500.00' T= 117.23' L= 234.36' E= 1.25' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9506+20.03 N= 1,864,055.64 E= 1,175,969.30 P.T. STA= 9508+54.39 N= 1,864,289.30 E= 1,175,951.42	P.I. STA= 9510+47.04 N= 1,864,481.34 E= 1,175,939.03 Δ= 0° 31' 39" D= 0° 24' 38" R= 13952.00' T= 64.23' L= 128.46' E= 0.15' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9509+82.81 N= 1,864,417.11 E= 1,175,938.90 P.T. STA= 9511+11.27 N= 1,864,545.57 E= 1,175,939.75	P.I. STA= 9514+90.68 N= 1,864,923.14 E= 1,175,977.06 Δ= 7° 14' 54" D= 1° 02' 30" R= 5500.00' T= 348.36' L= 695.79' E= 11.02' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9511+42.32 N= 1,864,576.47 E= 1,175,942.80 P.T. STA= 9518+38.12 N= 1,865,271.36 E= 1,175,967.30	P.I. STA= 9520+14.51 N= 1,865,447.69 E= 1,175,962.35 Δ= 5° 06' 31" D= 1° 54' 35" R= 3000.00' T= 133.83' L= 267.48' E= 2.98' e= 2.4 T.R.= 11' (0') S.E. RUN= 66' (0') P.C. STA= 9518+80.68 N= 1,865,313.91 E= 1,175,966.10 P.T. STA= 9521+48.16 N= 1,865,581.27 E= 1,175,970.53	P.I. STA= 521+27.16 N= 1,864,522.25 E= 1,175,556.14 Δ= 1° 54' 54" D= 1° 00' 09" R= 1165.00' T= 19.47' L= 38.94' E= 0.16' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 521+07.69 N= 1,864,502.79 E= 1,175,556.68 P.T. STA= 521+46.63 N= 1,864,541.72 E= 1,175,556.25	P.I. STA= 528+60.56 N= 1,865,255.64 E= 1,175,560.31 Δ= 1° 57' 29" D= 1° 54' 35" R= 5715.00' T= 97.67' L= 195.31' E= 0.83' e= 2.4 T.R.= N/A S.E. RUN= N/A P.C. STA= 527+62.89 N= 1,865,157.98 E= 1,175,559.75 P.T. STA= 529+58.21 N= 1,865,353.27 E= 1,175,557.53	P.I. STA= 536+78.45 N= 1,866,073.22 E= 1,175,537.02 Δ= 10° 22' 17" D= 4° 55' 05" R= 1419.00' T= 128.78' L= 256.86' E= 5.83' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 535+49.67 N= 1,865,944.49 E= 1,175,540.68 P.T. STA= 538+06.53 N= 1,866,200.51 E= 1,175,556.58	P.I. STA= 303+11.81 N= 1,865,160.56 E= 1,175,660.40 Δ= 1° 25' 14" D= 0° 00' 09" R= 13128.07' T= 162.74' L= 325.47' E= 1.01' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 301+49.07 N= 1,864,997.88 E= 1,175,664.85 P.C.C. STA= 304+74.54 N= 1,865,323.30 E= 1,175,659.99	P.I. STA= 305+66.61 N= 1,865,415.38 E= 1,175,659.75 Δ= 0° 49' 32" D= 0° 26' 11" R= 12779.64' T= 92.08' L= 184.15' E= 0.33' e= N/A T.R.= N/A S.E. RUN= N/A P.C.C. STA= 304+74.54 N= 1,865,323.30 E= 1,175,659.99 P.C.C. STA= 306+58.69 N= 1,865,507.45 E= 1,175,660.85 P.T. STA= 309+62.63 N= 1,865,811.30 E= 1,175,667.96	P.I. STA= 308+10.66 N= 1,865,659.41 E= 1,175,662.65 Δ= 1° 19' 32" D= 0° 26' 10" R= 13137.24' T= 151.98' L= 303.94' E= 0.88' e= N/A T.R.= N/A S.E. RUN= N/A P.C.C. STA= 306+58.69 N= 1,865,507.45 E= 1,175,660.85 P.T. STA= 309+62.63 N= 1,865,811.30 E= 1,175,667.96



CTE ENGINEERS
CONSEOR TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5202, PHONE: (312) 938-0300

NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

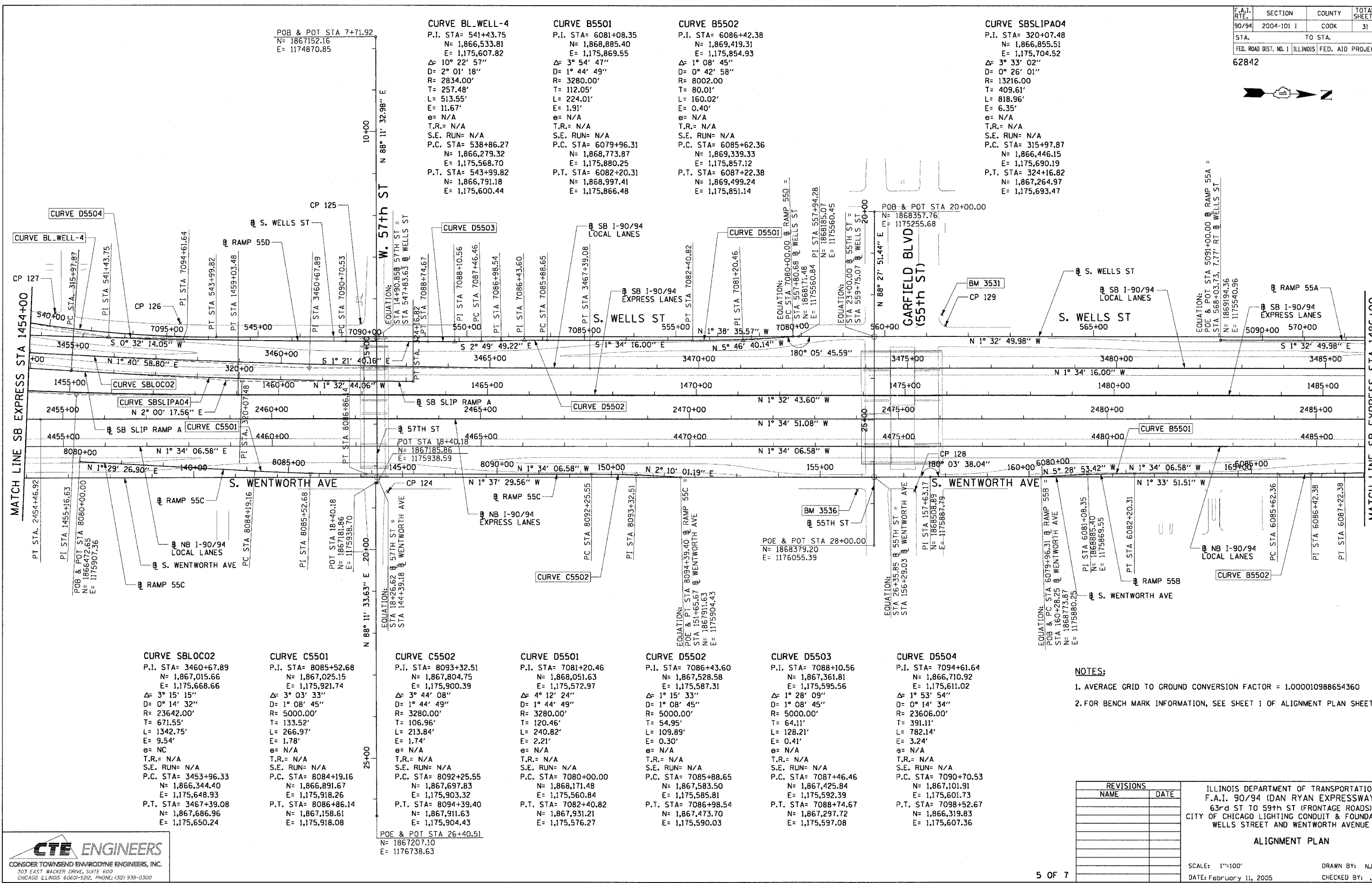
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005

DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



CURVE BL.WELL-4	CURVE B5501	CURVE B5502	CURVE SBSLIPA04
P.I. STA= 541+43.75 N= 1,866,533.81 E= 1,175,607.82 Δ= 10° 22' 57" D= 2° 01' 18" R= 2834.00' T= 257.48' L= 513.55' E= 11.67' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 538+86.27 N= 1,866,279.32 E= 1,175,568.70 P.T. STA= 543+99.82 N= 1,866,791.18 E= 1,175,600.44	P.I. STA= 6081+08.35 N= 1,868,885.40 E= 1,175,869.55 Δ= 3° 54' 47" D= 1° 44' 49" R= 3280.00' T= 112.05' L= 224.01' E= 1.91' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 6079+96.31 N= 1,868,773.87 E= 1,175,880.25 P.T. STA= 6082+20.31 N= 1,868,997.41 E= 1,175,866.48	P.I. STA= 6086+42.38 N= 1,869,419.31 E= 1,175,854.93 Δ= 1° 08' 45" D= 0° 42' 58" R= 8002.00' T= 80.01' L= 160.02' E= 0.40' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 6085+62.36 N= 1,869,339.33 E= 1,175,857.12 P.T. STA= 6087+22.38 N= 1,869,499.24 E= 1,175,851.14	P.I. STA= 320+07.48 N= 1,866,855.51 E= 1,175,704.52 Δ= 3° 33' 02" D= 0° 26' 01" R= 13216.00' T= 409.61' L= 818.96' E= 6.35' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 315+97.87 N= 1,866,446.15 E= 1,175,690.19 P.T. STA= 324+16.82 N= 1,867,264.97 E= 1,175,693.47

CURVE SBLOC02	CURVE C5501	CURVE C5502	CURVE D5501	CURVE D5502	CURVE D5503	CURVE D5504
P.I. STA= 3460+67.89 N= 1,867,015.66 E= 1,175,668.66 Δ= 3° 15' 15" D= 0° 14' 32" R= 23642.00' T= 671.55' L= 1342.75' E= 9.54' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 3453+96.33 N= 1,866,344.40 E= 1,175,648.93 P.T. STA= 3467+39.08 N= 1,867,686.96 E= 1,175,650.24	P.I. STA= 8085+52.68 N= 1,867,025.15 E= 1,175,921.74 Δ= 3° 03' 33" D= 1° 08' 45" R= 5000.00' T= 133.52' L= 266.97' E= 1.78' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8084+19.16 N= 1,866,891.67 E= 1,175,918.26 P.T. STA= 8086+86.14 N= 1,867,158.61 E= 1,175,918.08	P.I. STA= 8093+32.51 N= 1,867,804.75 E= 1,175,900.39 Δ= 3° 44' 08" D= 1° 44' 49" R= 3280.00' T= 106.96' L= 213.84' E= 1.74' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8092+25.55 N= 1,867,697.83 E= 1,175,903.32 P.T. STA= 8094+39.40 N= 1,867,931.21 E= 1,175,904.43	P.I. STA= 7081+20.46 N= 1,868,051.63 E= 1,175,572.97 Δ= 4° 12' 24" D= 1° 44' 49" R= 3280.00' T= 120.46' L= 240.82' E= 2.21' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7080+00.00 N= 1,868,171.48 E= 1,175,560.84 P.T. STA= 7082+40.82 N= 1,867,931.21 E= 1,175,576.27	P.I. STA= 7086+43.60 N= 1,867,528.58 E= 1,175,587.31 Δ= 1° 15' 33" D= 1° 08' 45" R= 5000.00' T= 54.95' L= 109.89' E= 0.30' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7085+88.65 N= 1,867,583.50 E= 1,175,585.81 P.T. STA= 7086+98.54 N= 1,867,473.70 E= 1,175,590.03	P.I. STA= 7088+10.56 N= 1,867,361.81 E= 1,175,595.56 Δ= 1° 28' 09" D= 1° 08' 45" R= 5000.00' T= 64.11' L= 128.21' E= 0.41' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7087+46.46 N= 1,867,425.84 E= 1,175,592.39 P.T. STA= 7088+74.67 N= 1,867,297.72 E= 1,175,597.08	P.I. STA= 7094+61.64 N= 1,866,710.92 E= 1,175,611.02 Δ= 1° 53' 54" D= 0° 14' 34" R= 23606.00' T= 391.11' L= 782.14' E= 3.24' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7090+70.53 N= 1,867,101.91 E= 1,175,601.73 P.T. STA= 7098+52.67 N= 1,866,319.83 E= 1,175,607.36

NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005

DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



02/02/2005 09:30:52 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62842				



CURVE C4701
 P.I. STA= 8068+34.90
 N= 1,872,302.10
 E= 1,175,769.16
 Δ= 2° 04' 05"
 D= 1° 08' 45"
 R= 5000.00'
 T= 90.24'
 L= 180.47'
 E= 0.81'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 8067+44.66
 N= 1,872,211.86
 E= 1,175,768.33
 P.T. STA= 8069+25.12
 N= 1,872,392.31
 E= 1,175,766.72

CURVE D4702
 P.I. STA= 7071+15.85
 N= 1,872,344.72
 E= 1,175,380.81
 Δ= 3° 54' 33"
 D= 0° 57' 38"
 R= 5964.00'
 T= 203.53'
 L= 406.91'
 E= 3.47'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7069+12.32
 N= 1,872,548.03
 E= 1,175,371.29
 P.T. STA= 7073+19.22
 N= 1,872,142.54
 E= 1,175,404.17

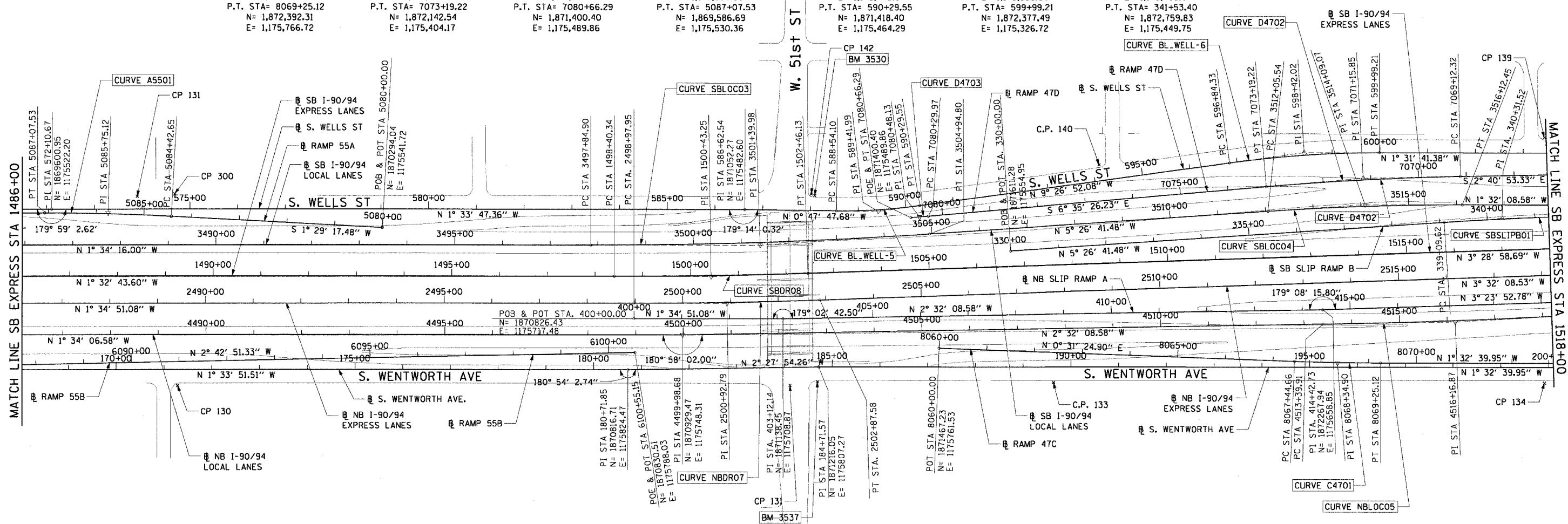
CURVE D4703
 P.I. STA= 7080+48.13
 N= 1,871,418.45
 E= 1,175,487.83
 Δ= 0° 11' 56"
 D= 0° 32' 51"
 R= 10464.00'
 T= 18.16'
 L= 36.32'
 E= 0.02'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7080+29.97
 N= 1,871,436.49
 E= 1,175,485.75
 P.T. STA= 7080+66.29
 N= 1,871,400.40
 E= 1,175,489.86

CURVE A5501
 P.I. STA= 5085+75.12
 N= 1,869,719.11
 E= 1,175,526.79
 Δ= 3° 02' 07"
 D= 1° 08' 45"
 R= 5000.00'
 T= 132.48'
 L= 264.89'
 E= 1.75'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 5084+42.65
 N= 1,869,851.55
 E= 1,175,530.23
 P.T. STA= 5087+07.53
 N= 1,869,586.69
 E= 1,175,530.36

CURVE BL_WELL-5
 P.I. STA= 589+41.99
 N= 1,871,331.70
 E= 1,175,478.71
 Δ= 8° 39' 04"
 D= 0° 55' 51"
 R= 1162.00'
 T= 87.89'
 L= 175.45'
 E= 3.32'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 588+54.10
 N= 1,871,243.82
 E= 1,175,479.94
 P.T. STA= 590+29.55
 N= 1,871,418.40
 E= 1,175,464.29

CURVE BL_WELL-6
 P.I. STA= 598+42.02
 N= 1,872,219.86
 E= 1,175,330.92
 Δ= 7° 55' 11"
 D= 2° 30' 55"
 R= 2278.00'
 T= 157.69'
 L= 314.87'
 E= 5.45'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 596+84.33
 N= 1,872,064.31
 E= 1,175,356.80
 P.T. STA= 599+99.21
 N= 1,872,377.49
 E= 1,175,326.72

CURVE SB SLIPBO1
 P.I. STA= 340+31.52
 N= 1,872,638.15
 E= 1,175,457.07
 Δ= 2° 00' 00"
 D= 0° 49' 13"
 R= 6984.00'
 T= 121.91'
 L= 243.79'
 E= 1.06'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 339+09.62
 N= 1,872,516.79
 E= 1,175,468.64
 P.T. STA= 341+53.40
 N= 1,872,759.83
 E= 1,175,449.75



CURVE SBLOC03
 P.I. STA= 3501+39.98
 N= 1,871,086.59
 E= 1,175,557.00
 Δ= 3° 52' 25"
 D= 0° 32' 44"
 R= 10500.00'
 T= 355.09'
 L= 709.90'
 E= 6.00'
 e= RC
 T.R.= 96° (96')
 S.E. RUN= 62' (62')
 P.C. STA= 3497+84.90
 N= 1,870,731.64
 E= 1,175,566.73
 P.T. STA= 3504+94.80
 N= 1,871,440.08
 E= 1,175,523.31

CURVE SBLOC04
 P.I. STA= 3514+09.07
 N= 1,872,350.23
 E= 1,175,436.55
 Δ= 3° 54' 33"
 D= 0° 57' 39"
 R= 5964.00'
 T= 203.53'
 L= 406.91'
 E= 3.47'
 e= NC
 T.R.= 41° (41')
 S.E. RUN= 115' (115')
 P.C. STA= 3512+05.54
 N= 1,872,147.61
 E= 1,175,455.86
 P.T. STA= 3516+12.45
 N= 1,872,553.69
 E= 1,175,431.10

CURVE SBDR08
 P.I. STA= 1500+43.25
 N= 1,870,985.63
 E= 1,175,625.10
 Δ= 1° 56' 15"
 D= 0° 28' 39"
 R= 12000.00'
 T= 202.92'
 L= 405.79'
 E= 1.72'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 1498+40.34
 N= 1,870,782.79
 E= 1,175,630.57
 P.T. STA= 1502+46.13
 N= 1,871,188.17
 E= 1,175,612.77

CURVE NBDRO7
 P.I. STA= 2500+92.79
 N= 1,871,020.31
 E= 1,175,680.12
 Δ= 1° 57' 17"
 D= 0° 30' 06"
 R= 11420.00'
 T= 194.84'
 L= 389.63'
 E= 1.66'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 2498+97.95
 N= 1,870,825.55
 E= 1,175,685.50
 P.T. STA= 2502+87.58
 N= 1,871,214.78
 E= 1,175,668.10

CURVE NBLOC05
 P.I. STA= 4516+16.87
 N= 1,872,546.08
 E= 1,175,676.71
 Δ= 2° 26' 28"
 D= 0° 26' 27"
 R= 13000.00'
 T= 276.96'
 L= 553.84'
 E= 2.95'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 4513+39.91
 N= 1,872,269.39
 E= 1,175,688.97
 P.T. STA= 4518+93.75
 N= 1,872,822.00
 E= 1,175,652.69

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63rd ST TO 59th ST (FRONTAGE ROADS)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WELLS STREET AND WENTWORTH AVENUE

ALIGNMENT PLAN

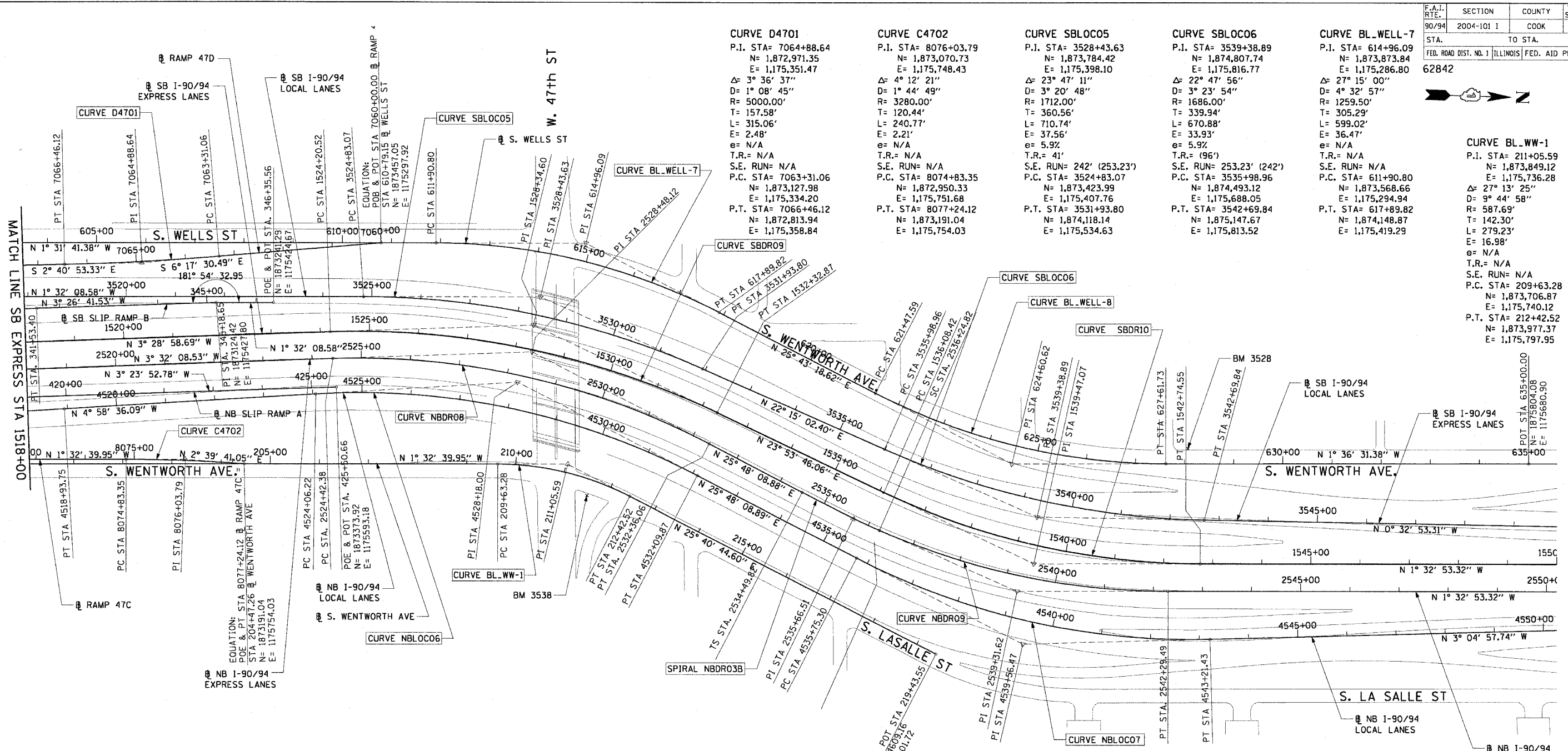
SCALE: 1"=100'
 DATE: February 11, 2005
 DRAWN BY: NJH/AMM
 CHECKED BY: JAL/MS

CTE ENGINEERS
 CONSER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
 313 EAST WACKER DRIVE, SUITE 600
 CHICAGO, ILLINOIS 60601-5226, PHONE: (312) 938-0300

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	12
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62842



CURVE D4701
P.I. STA= 7064+88.64
N= 1,872,971.35
E= 1,175,351.47
Δ= 3° 36' 37"
D= 1° 08' 45"
R= 5000.00'
T= 157.58'
L= 315.06'
E= 2.48'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7063+31.06
N= 1,873,127.98
E= 1,175,334.20
P.T. STA= 7066+46.12
N= 1,872,813.94
E= 1,175,358.84

CURVE C4702
P.I. STA= 8076+03.79
N= 1,873,784.42
E= 1,175,748.43
Δ= 4° 21' 21"
D= 1° 44' 49"
R= 3280.00'
T= 120.44'
L= 240.77'
E= 2.21'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8074+83.35
N= 1,872,950.33
E= 1,175,751.68
P.T. STA= 8077+24.12
N= 1,873,191.04
E= 1,175,754.03

CURVE SBLOC05
P.I. STA= 3528+43.63
N= 1,873,784.42
E= 1,175,398.10
Δ= 23° 47' 11"
D= 3° 20' 48"
R= 1712.00'
T= 360.56'
L= 710.74'
E= 37.56'
e= 5.9%
T.R.= 41'
S.E. RUN= 242' (253.23')
P.C. STA= 3524+83.07
N= 1,873,423.99
E= 1,175,407.76
P.T. STA= 3531+93.80
N= 1,874,118.14
E= 1,175,534.63

CURVE SBLOC06
P.I. STA= 3539+38.89
N= 1,874,807.74
E= 1,175,816.77
Δ= 22° 47' 56"
D= 3° 23' 54"
R= 1686.00'
T= 339.94'
L= 670.88'
E= 33.93'
e= 5.9%
T.R.= (96')
S.E. RUN= 253.23' (242')
P.C. STA= 3535+98.96
N= 1,874,493.12
E= 1,175,688.05
P.T. STA= 3542+69.84
N= 1,875,147.67
E= 1,175,813.52

CURVE BL_WELL-7
P.I. STA= 614+96.09
N= 1,873,873.42
E= 1,175,286.80
Δ= 27° 15' 00"
D= 4° 32' 57"
R= 1259.50'
T= 305.29'
L= 599.02'
E= 36.47'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 611+90.80
N= 1,873,568.66
E= 1,175,294.94
P.T. STA= 617+89.82
N= 1,874,148.87
E= 1,175,419.29

CURVE BL_WW-1
P.I. STA= 211+05.59
N= 1,873,849.12
E= 1,175,736.28
Δ= 27° 13' 25"
D= 9° 44' 58"
R= 587.69'
T= 142.30'
L= 279.23'
E= 16.98'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 209+63.28
N= 1,873,706.87
E= 1,175,740.12
P.T. STA= 212+42.52
N= 1,873,977.37
E= 1,175,797.95

CURVE SBDRO9
P.I. STA= 1528+34.60
N= 1,873,771.86
E= 1,175,455.52
Δ= 27° 22' 45"
D= 3° 22' 13"
R= 1700.00'
T= 414.09'
L= 812.35'
E= 49.71'
e= 5.9%
T.R.= 41'
S.E. RUN= 242' (277.96')
P.C. STA= 1524+20.52
N= 1,873,358.54
E= 1,175,480.67
P.T. STA= 1532+32.87
N= 1,874,150.45
E= 1,175,623.26

CURVE SBDRO10
P.I. STA= 1539+47.07
N= 1,874,803.43
E= 1,175,912.56
Δ= 25° 26' 39"
D= 3° 49' 11"
R= 1500.00'
T= 338.65'
L= 746.13'
E= 37.75'
e= 6.0%
T.R.= (96')
S.E. RUN= (282.56') 246'
P.C. STA= 1536+08.42
N= 1,874,493.81
E= 1,175,775.38
P.T. STA= 1542+74.55
N= 1,875,141.96
E= 1,175,903.41

CURVE NBLOC06
P.I. STA= 4528+18.00
N= 1,873,742.76
E= 1,175,572.51
Δ= 30° 46' 45"
D= 3° 49' 48"
R= 1496.00'
T= 411.77'
L= 803.65'
E= 55.64'
e= 6.0%
T.R.= 96' (96')
S.E. RUN= 246' (272.71') 246'
P.C. STA= 4524+06.22
N= 1,873,332.54
E= 1,175,608.23
P.T. STA= 4532+09.87
N= 1,875,113.48
E= 1,175,751.74

CURVE NBLOC07
P.I. STA= 4539+56.47
N= 1,874,785.65
E= 1,176,076.72
Δ= 28° 53' 07"
D= 3° 52' 17"
R= 1480.00'
T= 381.17'
L= 746.13'
E= 48.30'
e= 6.0%
T.R.= 41' (41')
S.E. RUN= (272.71') 246'
P.C. STA= 4535+75.30
N= 1,874,442.48
E= 1,175,910.80
P.T. STA= 4543+21.43
N= 1,874,135.73
E= 1,176,056.22

CURVE NBDRO8
P.I. STA= 2528+48.12
N= 1,873,770.44
E= 1,175,510.19
Δ= 29° 20' 17"
D= 3° 41' 47"
R= 1550.00'
T= 405.74'
L= 793.67'
E= 52.23'
e= 6.0%
T.R.= 96' (96')
S.E. RUN= 246' (267.20') 246'
P.C. STA= 2524+42.38
N= 1,873,365.47
E= 1,175,535.22
P.T. STA= 2532+36.06
N= 1,874,135.73
E= 1,175,686.80

SPIRAL NBDRO3B
P.I. STA= 2535+66.51
N= 1,874,433.24
E= 1,175,830.64
Δ= 3° 27' 27"
LS= 175.00'
YS= 3.52'
XS= 174.94'
P= 0.88'
K= 87.49'
LT= 116.69'
ST= 58.35'
LC= 174.97'
T.S. STA= 2534+49.82
N= 1,874,328.19
E= 1,175,779.85
S.C. STA= 2536+24.82
N= 1,874,487.21
E= 1,175,852.82

CURVE NBDRO9
P.I. STA= 2539+31.62
N= 1,874,770.97
E= 1,175,969.46
Δ= 23° 53' 35"
D= 3° 57' 05"
R= 1450.00'
T= 306.79'
L= 604.67'
E= 32.10'
e= 6.0%
T.R.= 41'
S.E. RUN= 246'
P.C. STA= 2536+24.82
N= 1,874,487.21
E= 1,175,852.82
P.T. STA= 2542+29.49
N= 1,875,077.65
E= 1,175,961.17

CURVE BL_WELL-8
P.I. STA= 624+60.62
N= 1,874,753.20
E= 1,175,710.42
Δ= 27° 19' 50"
D= 4° 27' 01"
R= 1287.50'
T= 313.03'
L= 614.15'
E= 37.51'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 621+47.59
N= 1,874,471.18
E= 1,175,574.56
P.T. STA= 627+61.73
N= 1,875,066.11
E= 1,175,701.63

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

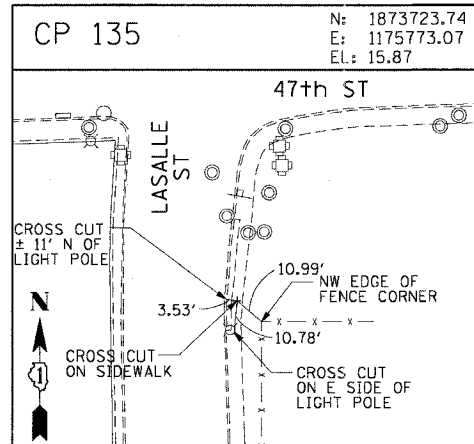
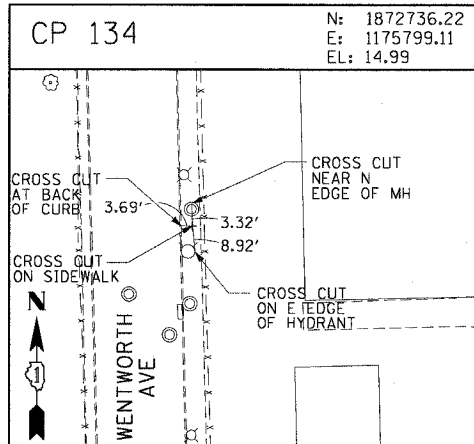
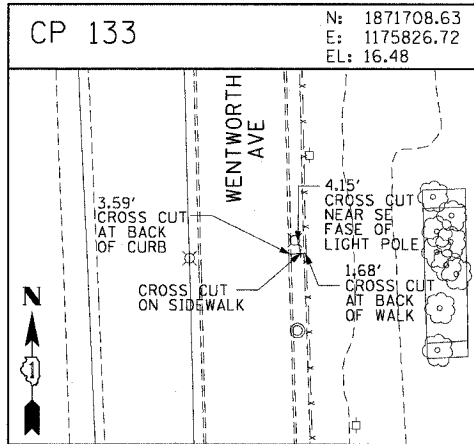
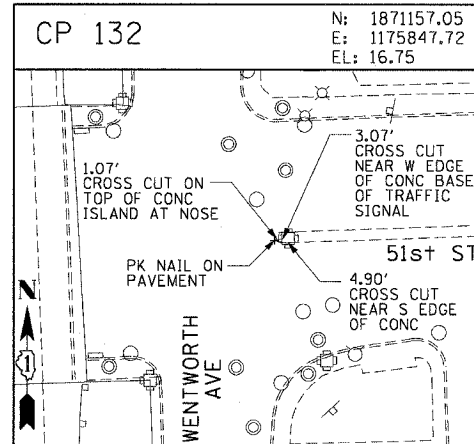
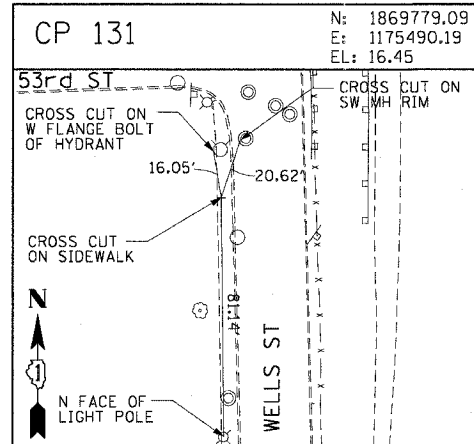
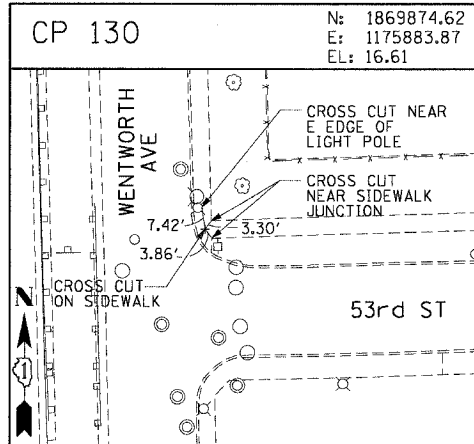
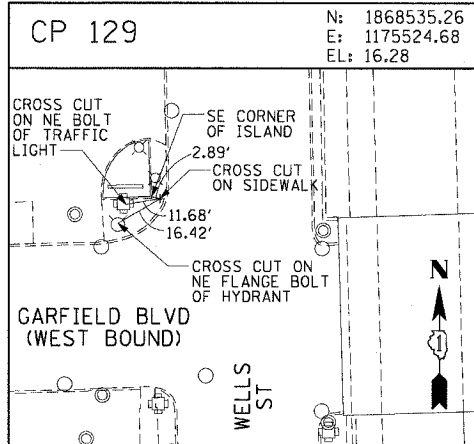
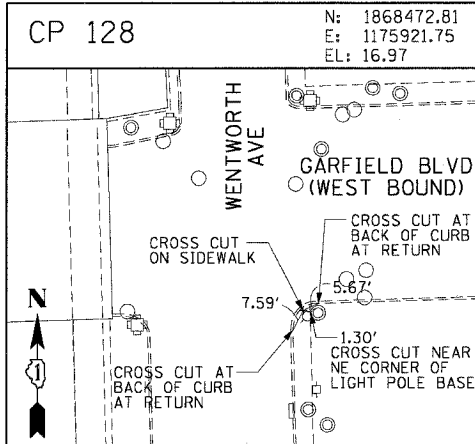
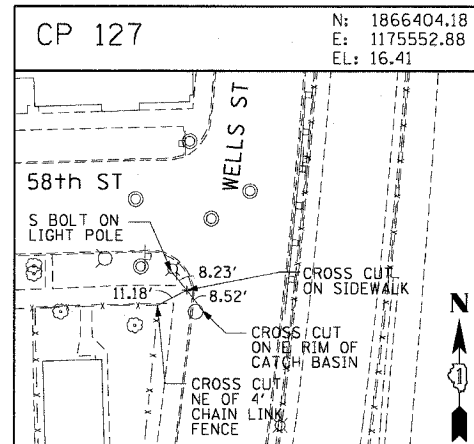
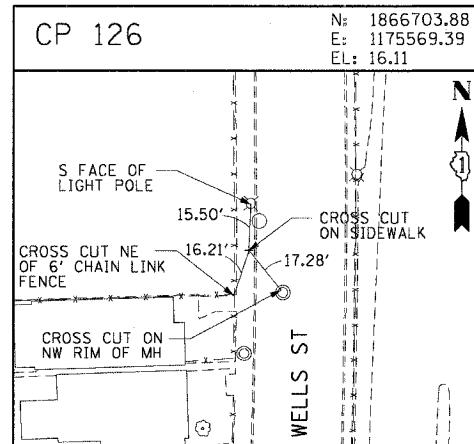
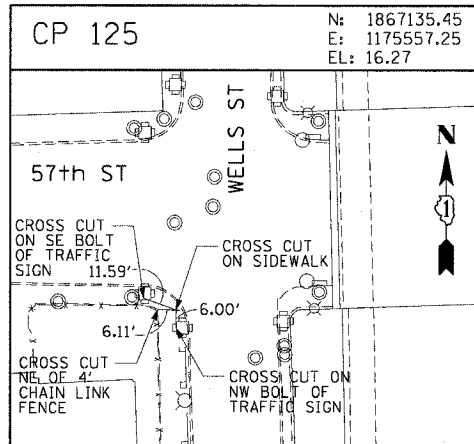
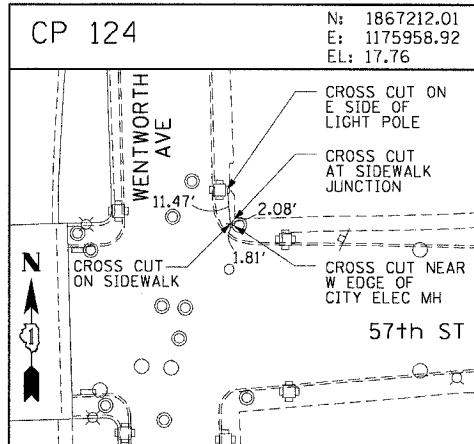
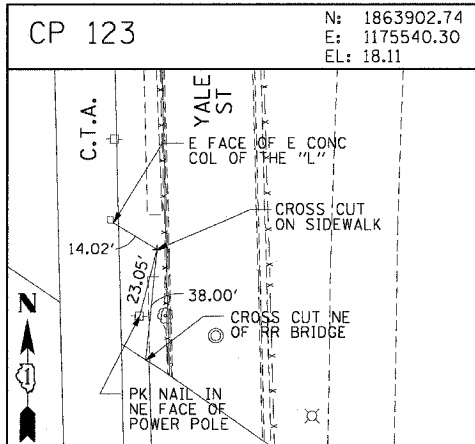
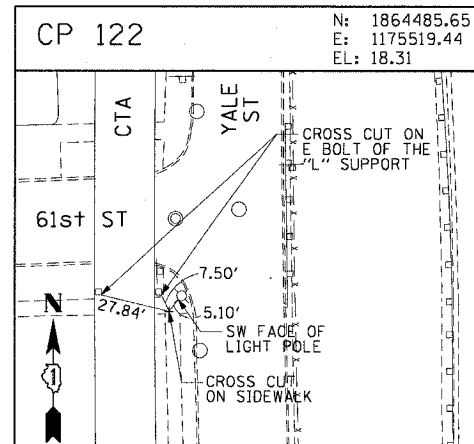
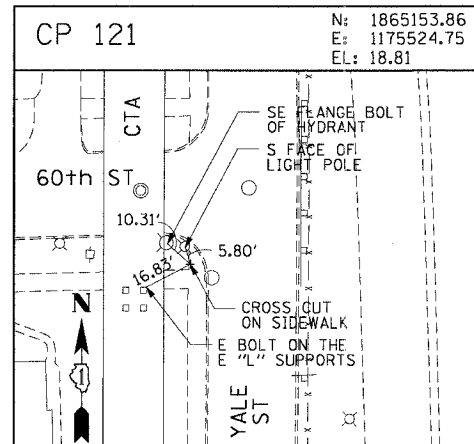
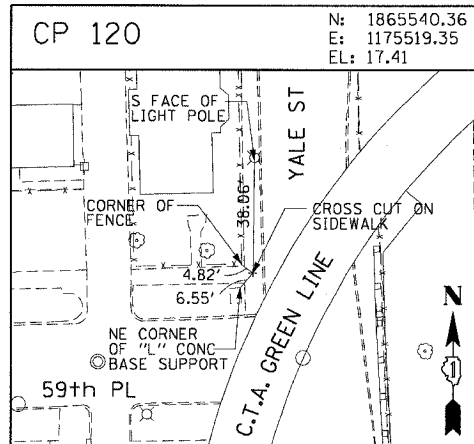
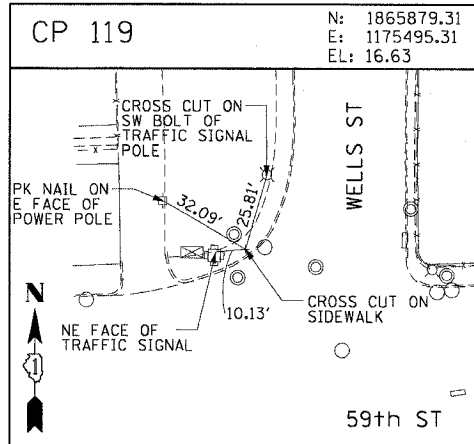
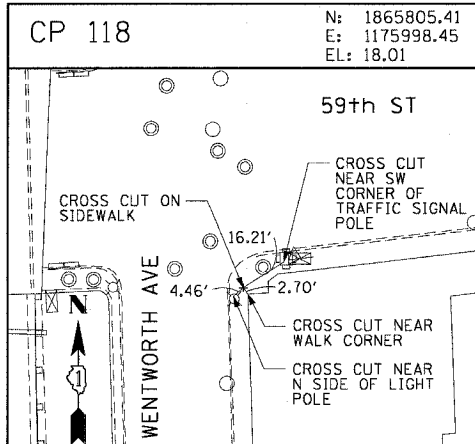
ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60606-5326, PHONE: (312) 938-0300

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	14
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



CTE ENGINEERS
CONSER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5920, PHONE: (312) 938-0300

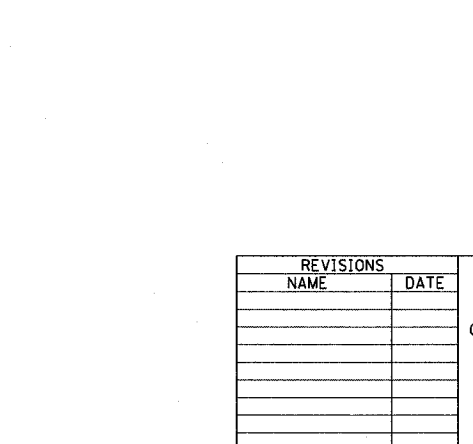
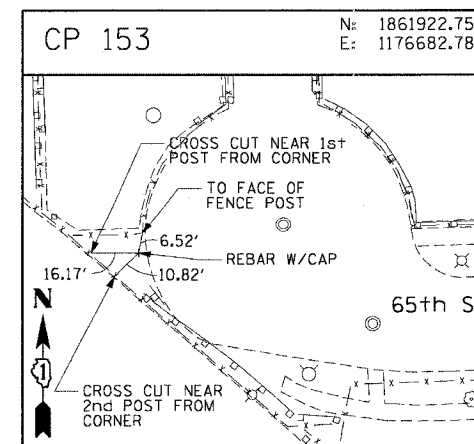
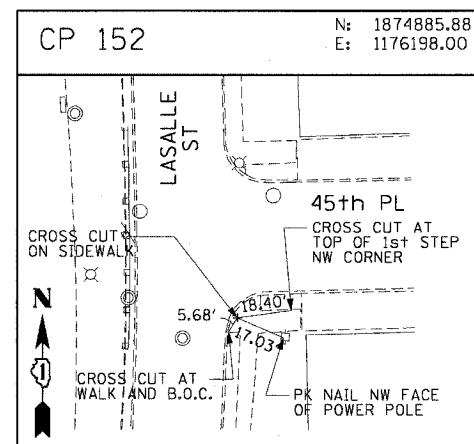
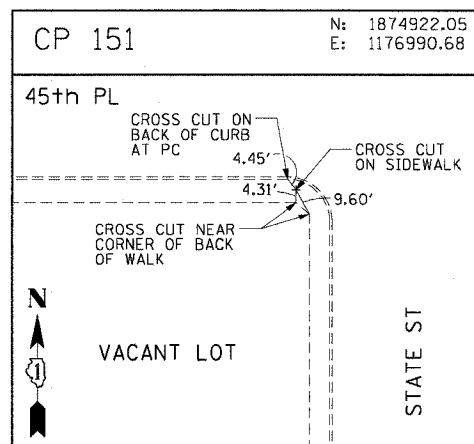
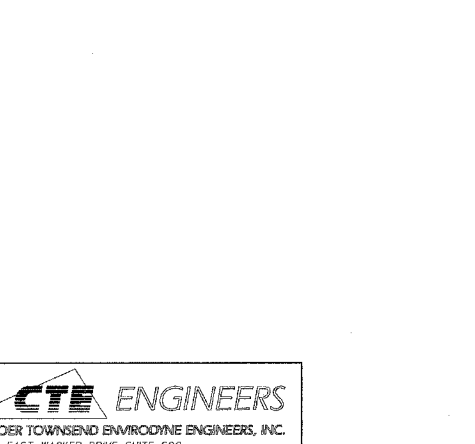
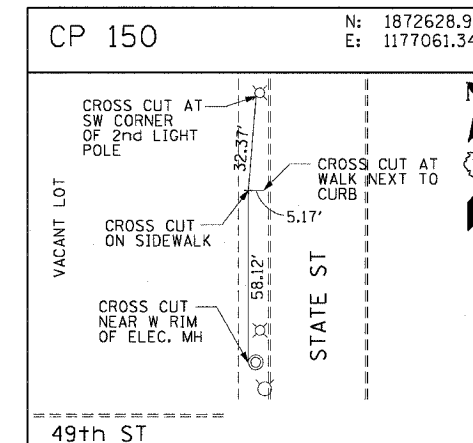
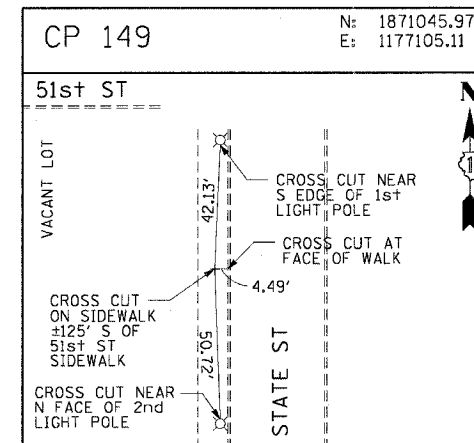
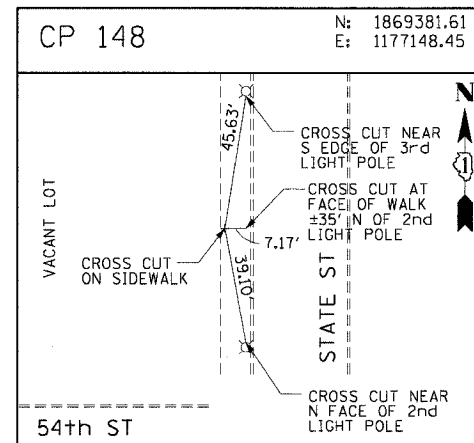
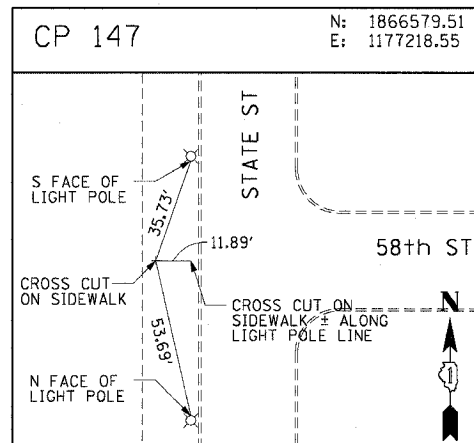
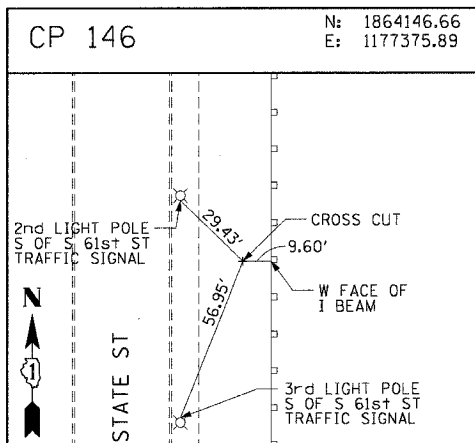
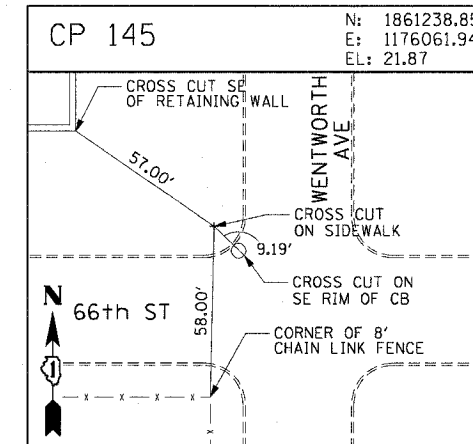
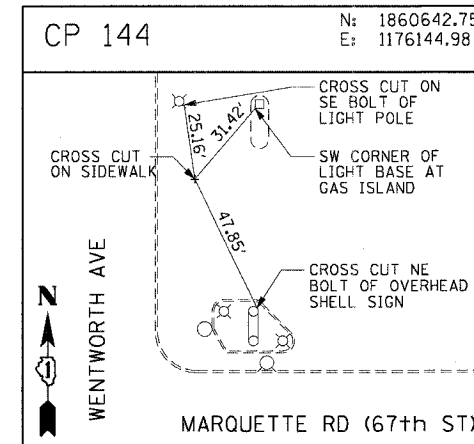
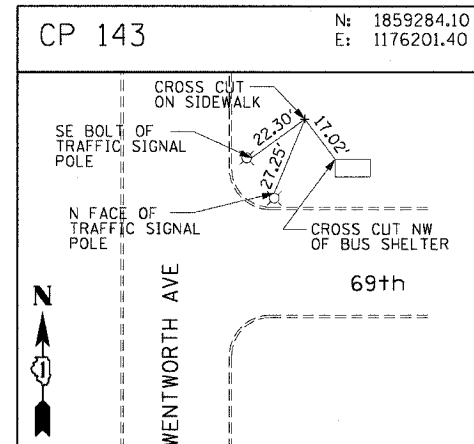
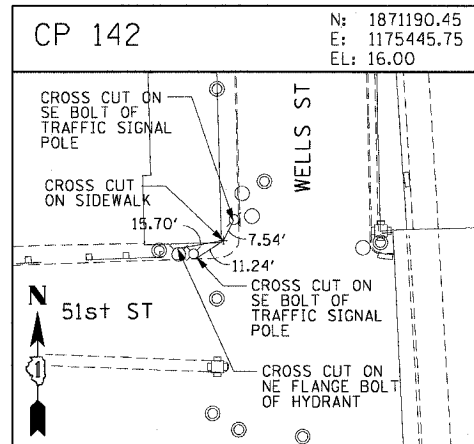
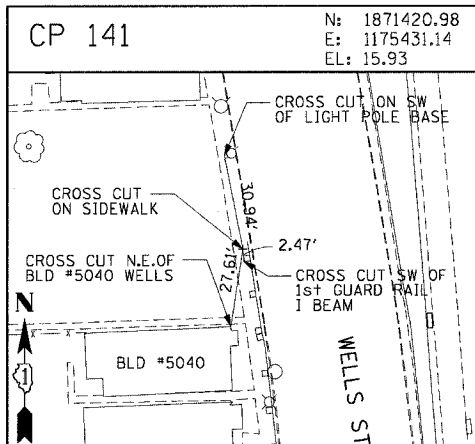
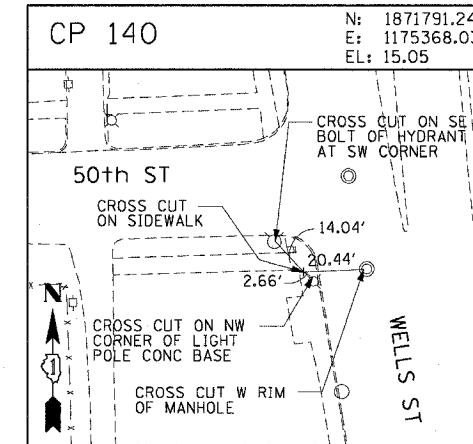
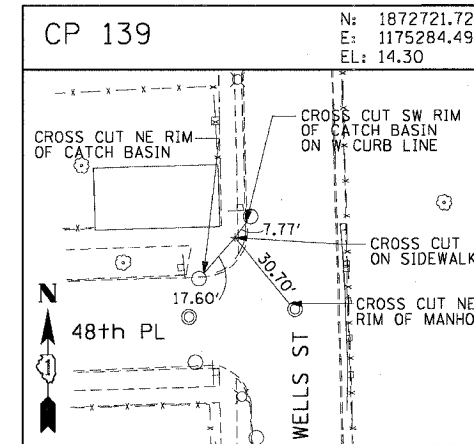
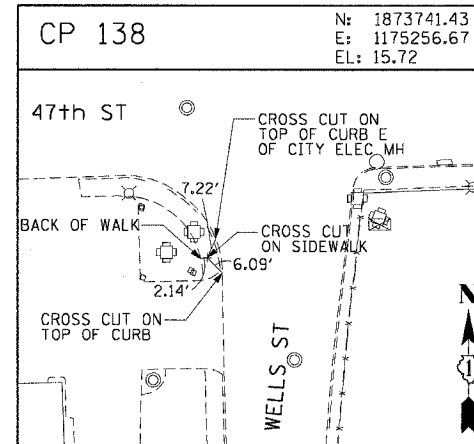
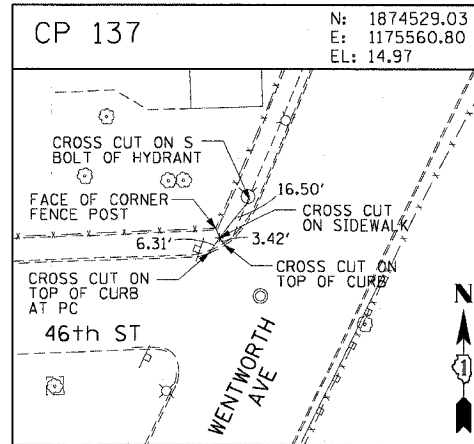
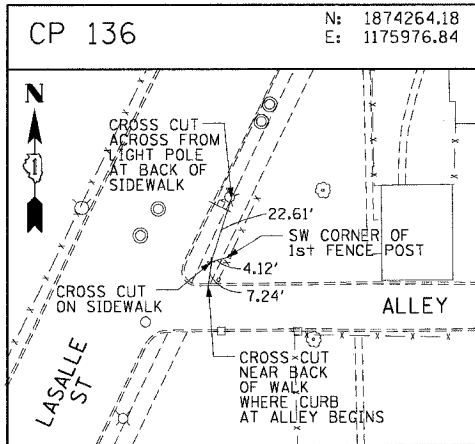
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
DATE: February 11, 2005
DRAWN BY: MRK
CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	15
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



CTE ENGINEERS
CONOVER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5222, PHONE: (312) 938-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

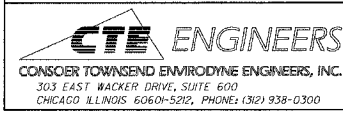
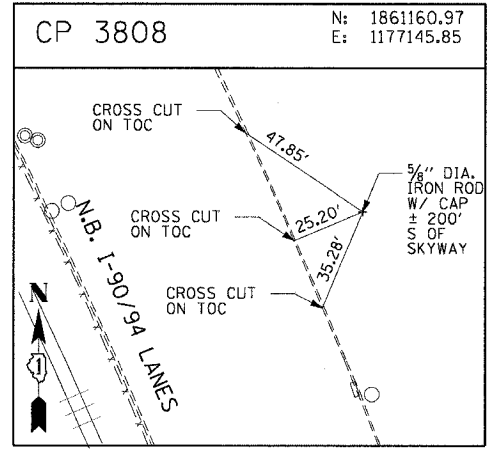
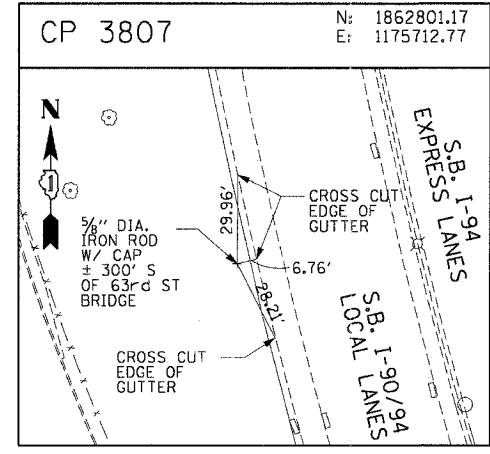
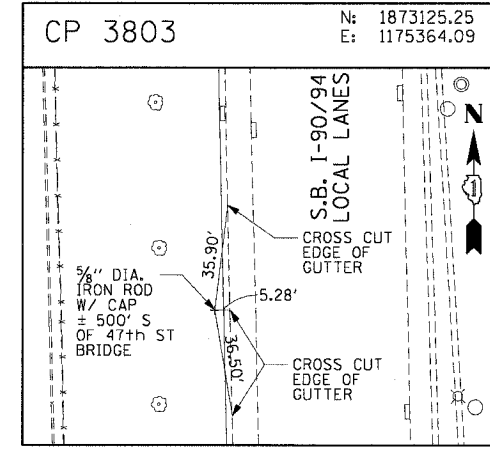
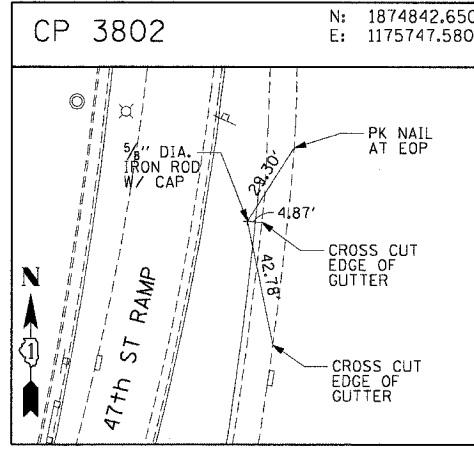
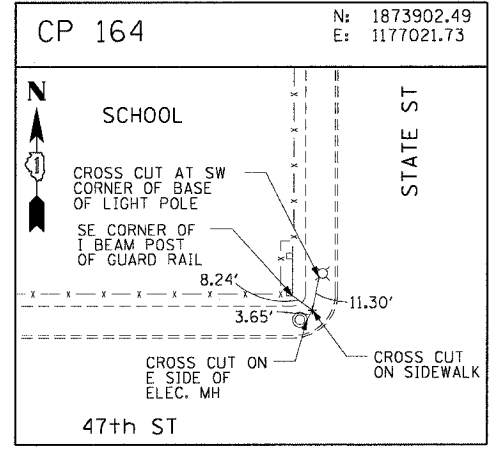
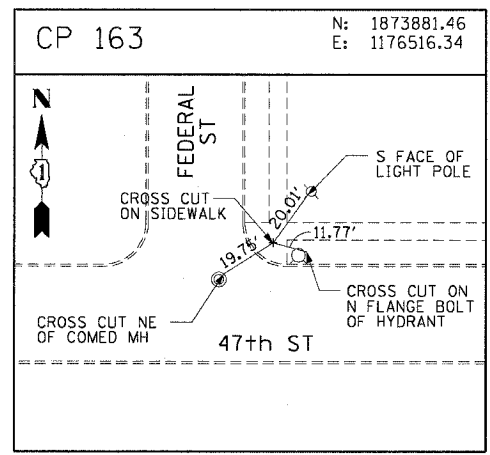
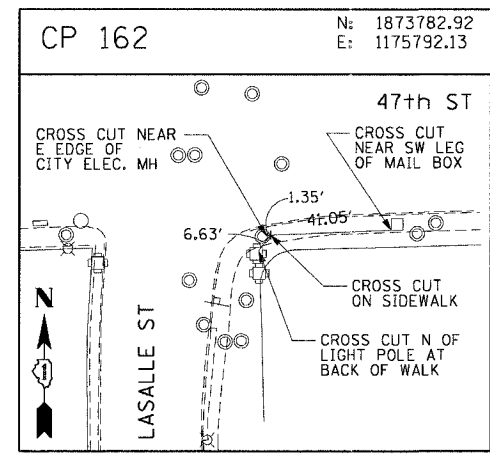
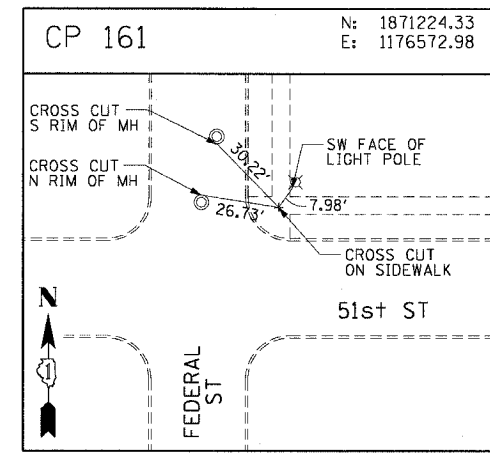
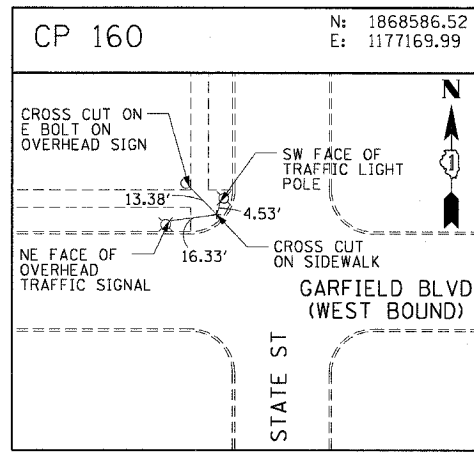
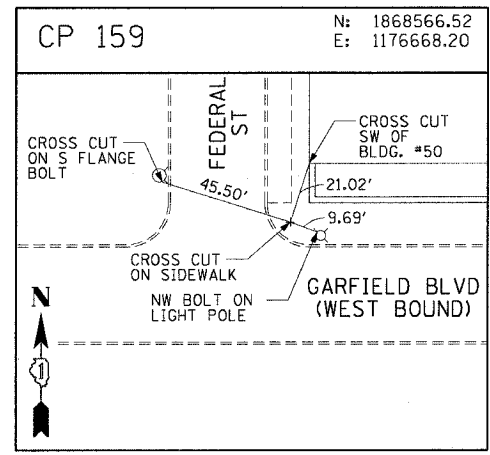
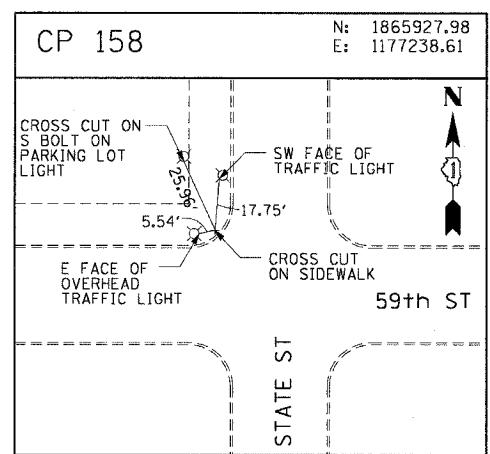
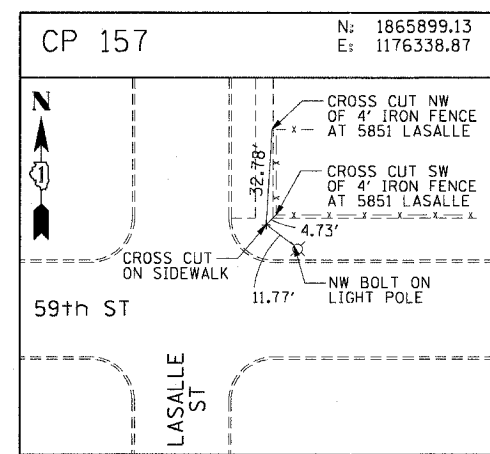
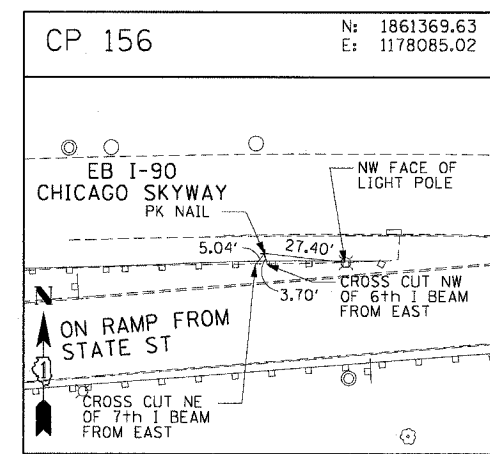
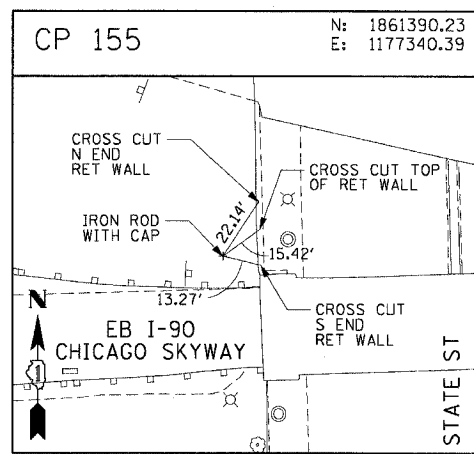
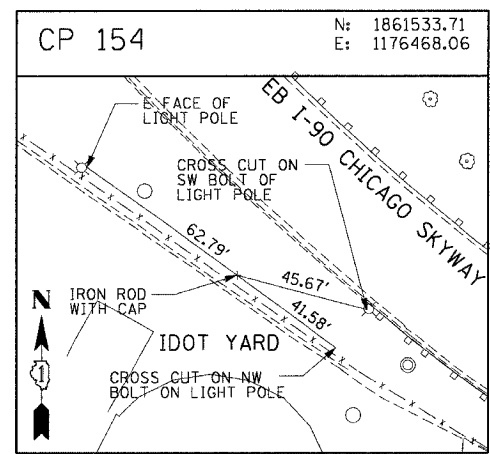
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
DATE: February 11, 2005

DRAWN BY: MRK
CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 I	COOK	31	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
DATE: February 11, 2005

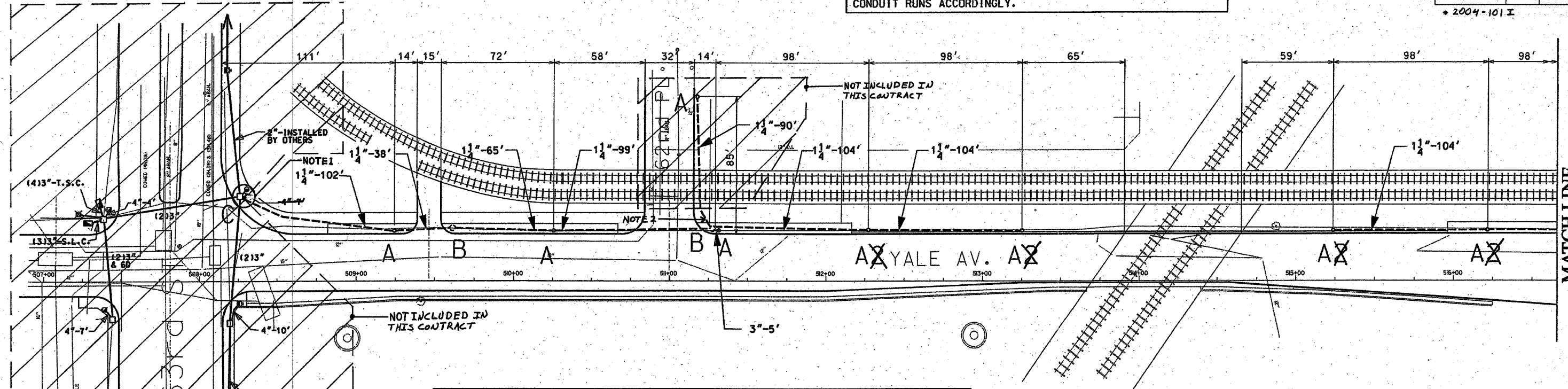
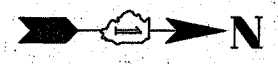
DRAWN BY: MRK
CHECKED BY: JAL

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62842

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	31	17
STA. 507+00		TO STA. 523+45		
FED. ROAD DIST. NO. 1		ILLINOIS		FED AID PROJECTS
* 2004-101 I				

NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.



MATCH LINE
STATION 516+65

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
 2" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
 X 3" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
 2" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE
 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
 HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
 CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:

"A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATIONS FLUSH WITH SIDEWALK SURFACE.

"A2" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATIONS FLUSH WITH SIDEWALK SURFACE.

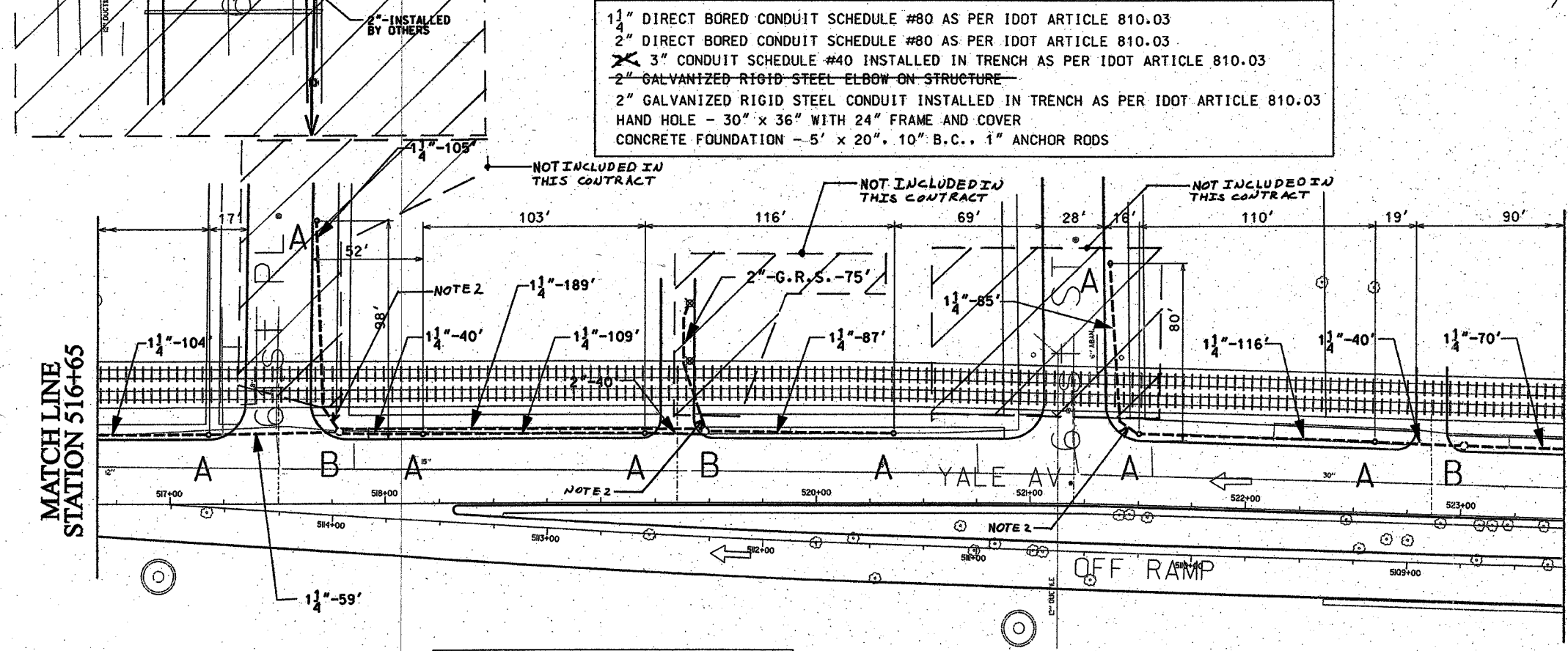
"B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER

"C" - DRILL EXISTING MANHOLE

NOTES:

1. ROUTE PROPOSED CONDUIT RUN TO THE EXISTING MANHOLE OR HANDHOLE AS SHOWN. DRILL THE EXISTING MANHOLE OR HANDHOLE AND INSTALL PROPOSED CONDUIT THROUGH THE MANHOLE OR HANDHOLE WALL. SEE DRAWING BOE-2 FOR DETAILS.

2. PROVIDE A CONDUIT STUB AT HANDHOLE EXTENDING TO ONE FOOT PAST THE LIMITS OF SIDEWALK REPLACEMENT. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE. SEE IDOT CONTRACT NO. 62835 FOR LIMITS OF SIDEWALK REPLACEMENT.



MATCH LINE
STATION 516+65

MATCH LINE
STATION 523+45
SEE SHEET 04-002

FOR INSTALLATION PLAN SEE SHEET 04-016
 FOR REMOVAL PLAN SEE SHEET 04-024

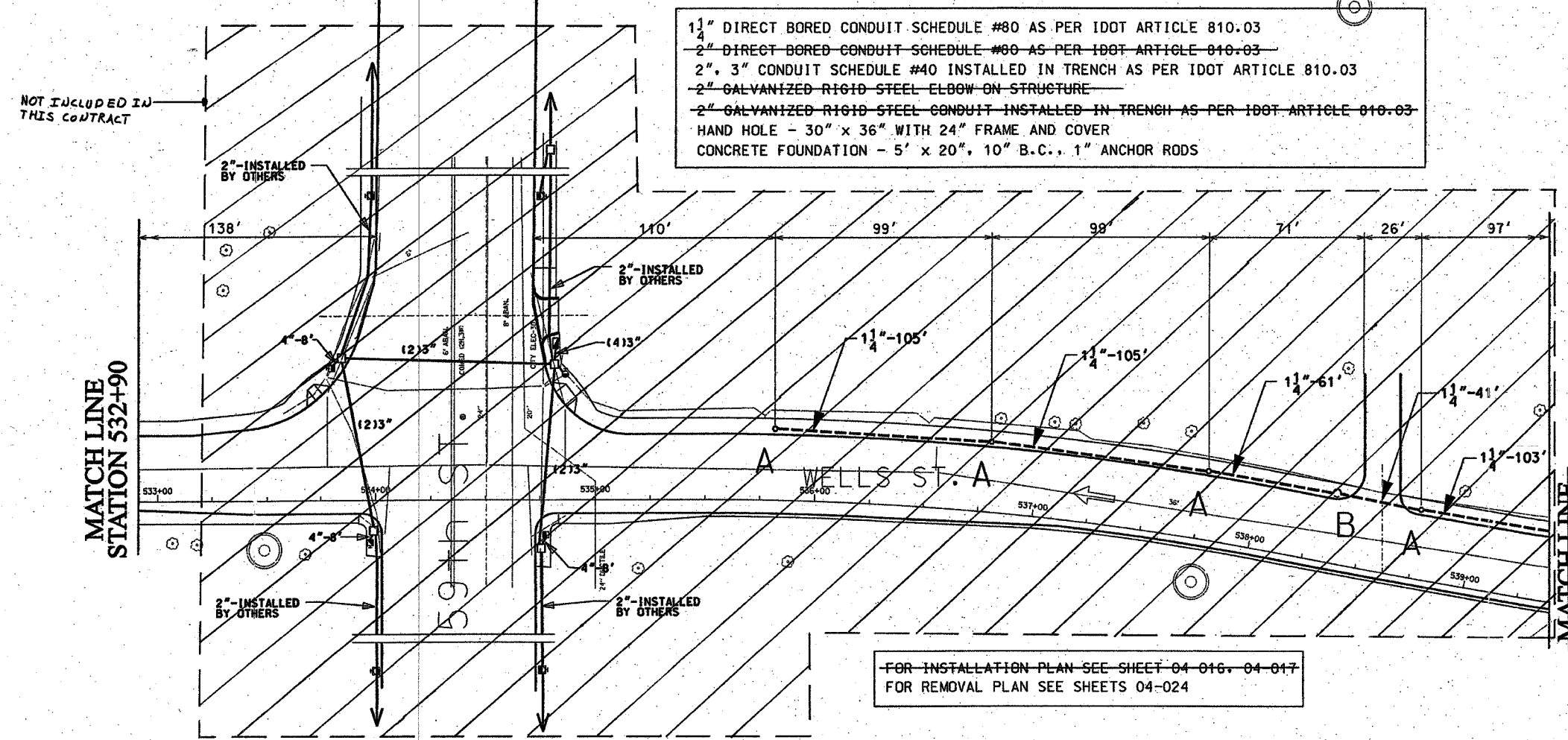
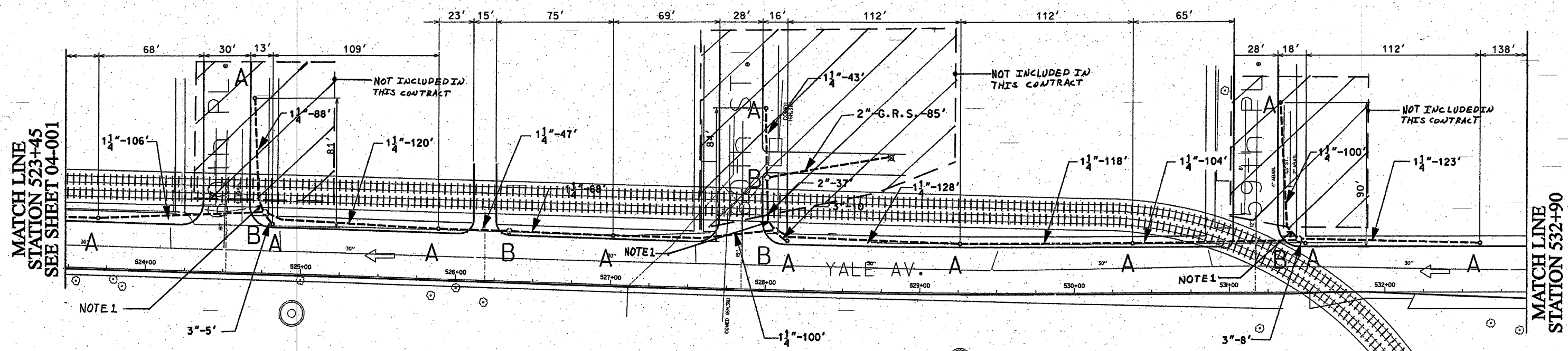
CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: B. GARNSEY	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: B. GARNSEY	
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.		DWG. NO. 04-001
ENGINEER OF ELECTRICITY: GEN'L. SUPT. OF ELECTRICITY: DEPUTY COMMISSIONER:			DATE: 1/20/04
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63rd St. TO 59th St. (FRONTAGE ROADS)			
STREET LIGHTING UNDERGROUND CONDUIT FACILITIES			
SCALE: 1" = 30'		DRAWN BY: B.T.G.	
DATE: February 11, 2005		CHECKED BY: O.L.	

REVISIONS	
NAME	DATE

62842



F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	31	18
STA. 523+45		TO STA. 539+40		
FED. ROAD DIST NO. 1		ILLINOIS		FED AID PROJECTS
* 2004-101 I				



- 1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2", 3" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 2" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE
- 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
- CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:

"A"- INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATIONS FLUSH WITH SIDEWALK SURFACE.

"B"- INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

NOTES:

1. PROVIDE A CONDUIT STUB AT HANDHOLE EXTENDING TO ONE FOOT PAST THE LIMITS OF SIDEWALK REPLACEMENT. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE. SEE IDOT CONTRACT NO. 62835 FOR LIMITS OF SIDEWALK REPLACEMENT.

FOR INSTALLATION PLAN SEE SHEET 04-016, 04-017
FOR REMOVAL PLAN SEE SHEETS 04-024

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: B. GARNSEY
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO.
GEN'L SUPT. OF ELECTRICITY:		04-002
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: 1"=30'	DATE: 1/20/04
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63rd St. TO 57th St. (FRONTAGE ROADS)		
STREET LIGHTING UNDERGROUND CONDUIT FACILITIES		
SCALE: 1" = 30'		DRAWN BY: B.T.G.
DATE: February 11, 2005		CHECKED BY: O.L.

REVISIONS	
NAME	DATE

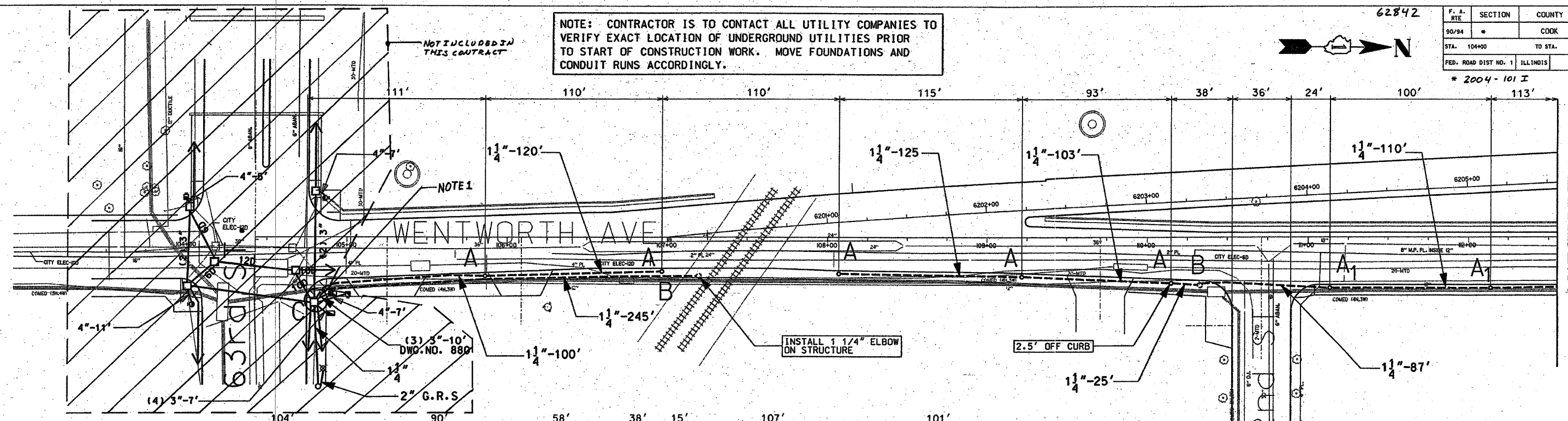
62842

F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	31	19
STA. 104+00	TO STA. 118+95			
FED. ROAD DIST NO. 1	ILLINOIS	FED AID PROJECTS		

* 2004-101 I



NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.



MATCH LINE STATION 112+55

MATCH LINE STATION 112+55

MATCH LINE STATION 118+95 SEE SHEET 04-009

- NOTES:**
1. ROUTE PROPOSED CONDUIT RUN TO THE EXISTING MANHOLE OR HAND HOLE AS SHOWN. DRILL THE EXISTING MANHOLE OR HANDHOLE AND INSTALL PROPOSED CONDUIT THROUGH MANHOLE OR HANDHOLE WALL. SEE DRAWING 150E-2 FOR DETAILS.
 2. PROVIDE A ONE FOOT CONDUIT STUB AT HANDHOLE IN THE DIRECTION AS SHOWN ON THIS DRAWING. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE.

- NOTES:** CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
- "A"- INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING No. 565. FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
 - "A₁"- INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING No. 937. 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
 - "B"- INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.
 - "C"- DRILL EXISTING MANHOLE, HANDHOLE OR FOUNDATION.

- 1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 1 1/4" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE
- ~~2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03~~
- 3" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
- CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
- OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
- ~~DRILL EXISTING MAN HOLE OR HAND HOLE~~

FOR INSTALLATION PLAN SEE SHEET 04-020
FOR REMOVAL PLAN SEE SHEET 04-027

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN P.R.S./ B.T.G.	CHIEF DRAFTSMAN ROBERT CARTER	ENGINEER P.R.S./ B.T.G.
SUPERVISING ENGINEER ELEC. DESIGN ENGR.		DWG. NO. 04-008
ENGINEER OF ELECTRICITY:		DATE: 1/20/04
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd St. to 57th St. (FRONTAGE ROADS)

STREET LIGHTING
UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
DATE: February 11, 2005
DRAWN BY: B.T.G.
CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62842

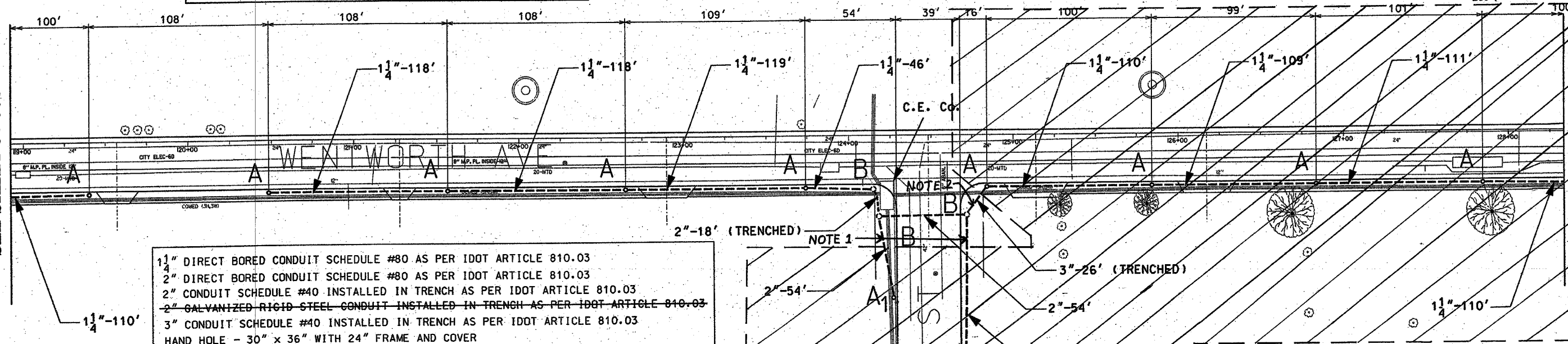
F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	31	20
STA. 118+95	TO STA. 135+65			
FED. ROAD DIST. NO. 1		ILLINOIS	FED AID PROJECTS	



NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

MATCH LINE
STATION 118+95
SEE SHEET 04-008

MATCH LINE
STATION 128+35



- 1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 3" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
- CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
- OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
- 2" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:

"A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING No. 565, FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.

"A1" - INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1 1/4" ANCHOR RODS SIMILAR AS PER DRAWING No. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.

"B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

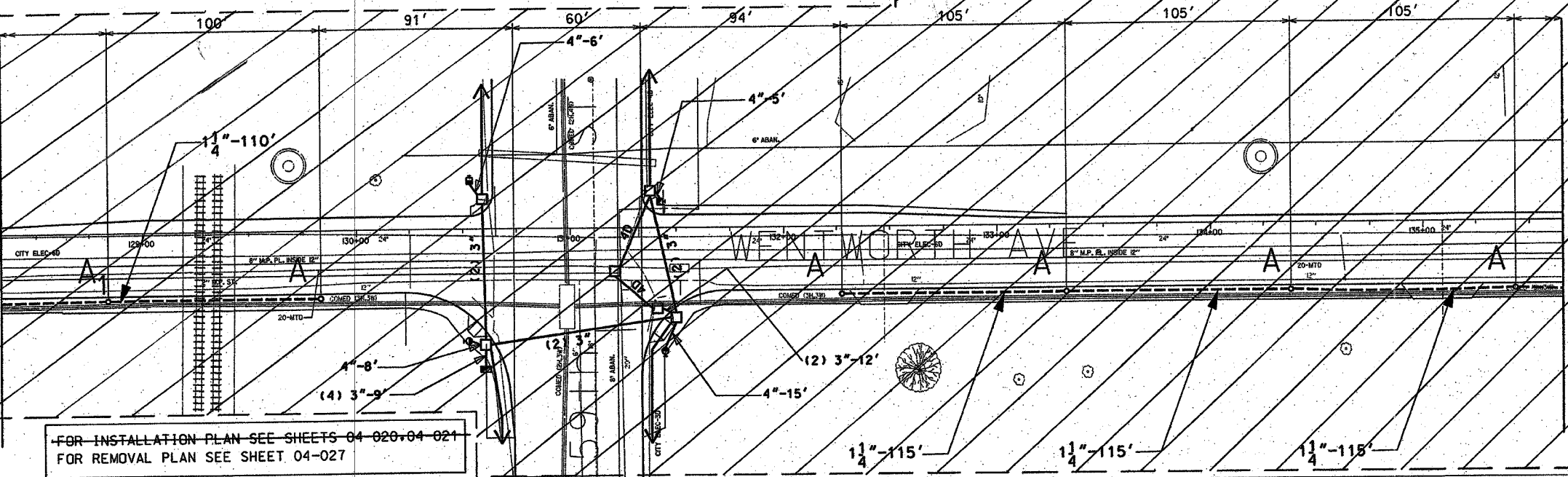
NOTES:

1. PROVIDE A ONE FOOT CONDUIT STUB AT HANDHOLE IN THE DIRECTION AS SHOWN ON THIS DRAWING. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE.
2. INTERCEPT EXISTING CONDUIT STUB AT THE FOUNDATION OF THE EXISTING LIGHTING UNIT.

NOT INCLUDED IN THIS CONTRACT

MATCH LINE
STATION 128+35

MATCH LINE
STATION 135+65
SEE SHEET 04-010



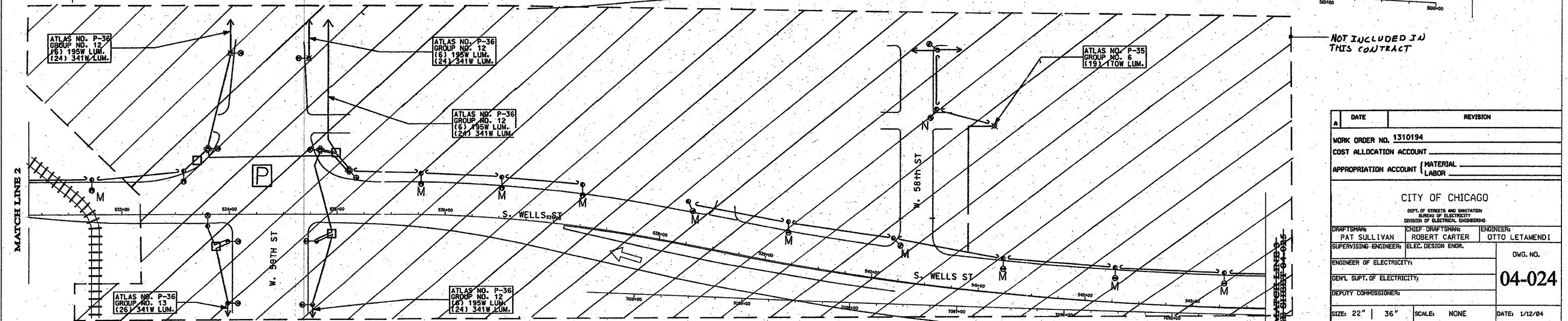
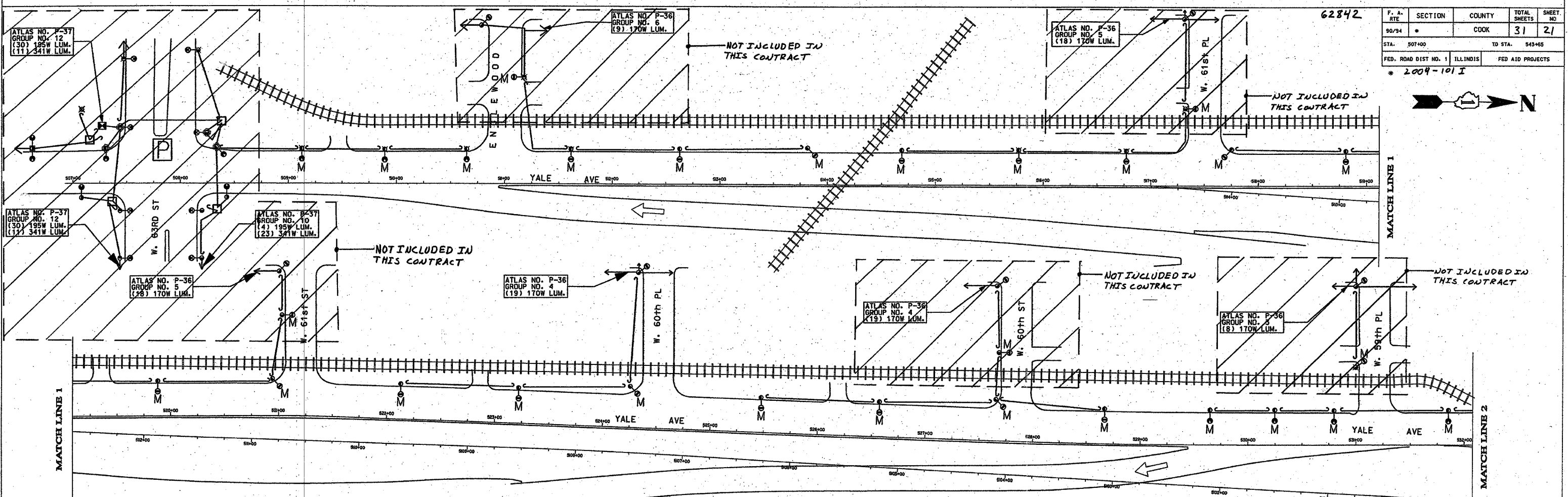
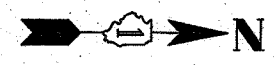
FOR INSTALLATION PLAN SEE SHEETS 04-020-04-021
FOR REMOVAL PLAN SEE SHEET 04-027

CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: P.R.S./ B.T.G.	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: P.R.S./ B.T.G.
SUPERVISING ENGINEER: ELEC. DESIGN ENGR.		DWG. NO. 04-009
ENGINEER OF ELECTRICITY:		DATE: 1/20/04
GEN'L SUPT. OF ELECTRICITY:		SCALE: 1" = 30'
DEPUTY COMMISSIONER:		DATE: February 11, 2005
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63rd St. TO 59th St. (FRONTAGE ROADS)		
STREET LIGHTING UNDERGROUND CONDUIT FACILITIES		
SCALE: 1" = 30'		DRAWN BY: B.T.G.
DATE: February 11, 2005		CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62842

F. A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	21
STA. 507+00		TO STA. 543+65		
FED. ROAD DIST NO. 1	ILLINOIS	FED AID PROJECTS		
* 2004-101 I				



NOTES:

- "M" - REMOVE ANCHOR BASE STEEL POLE WITH LUMINAIRE AND MAST ARM. BREAKDOWN FOUNDATION COMPLETE.
- "N" - REMOVE AND RELOCATE EXISTING ANCHOR-BASE POLE ON PROPOSED FNDN.
- "P" - SEPARATE CONTRACTOR TO REPLACE EXISTING STREET LIGHTS AT INTERSECTION.

FOR UNDERGROUND PLAN SEE SHEETS 04-001, 04-002, 04-003
 FOR INSTALLATION PLAN SEE SHEETS 04-016, 04-017

A	DATE	REVISION

WORK ORDER NO. 1310194
 COST ALLOCATION ACCOUNT _____
 APPROPRIATION ACCOUNT (MATERIAL _____
 LABOR _____)

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: PAT SULLIVAN CHIEF DRAFTSMAN: ROBERT CARTER ENGINEER: OTTO LETAMENDI
 SUPERVISING ENGINEER: ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICITY: _____
 GEN'L SUPT. OF ELECTRICITY: _____
 DEPUTY COMMISSIONER: _____

DWG. NO. **04-024**

SIZE: 22" x 36" SCALE: NONE DATE: 1/12/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63rd St. TO 59th St. (FRONTAGE ROADS)

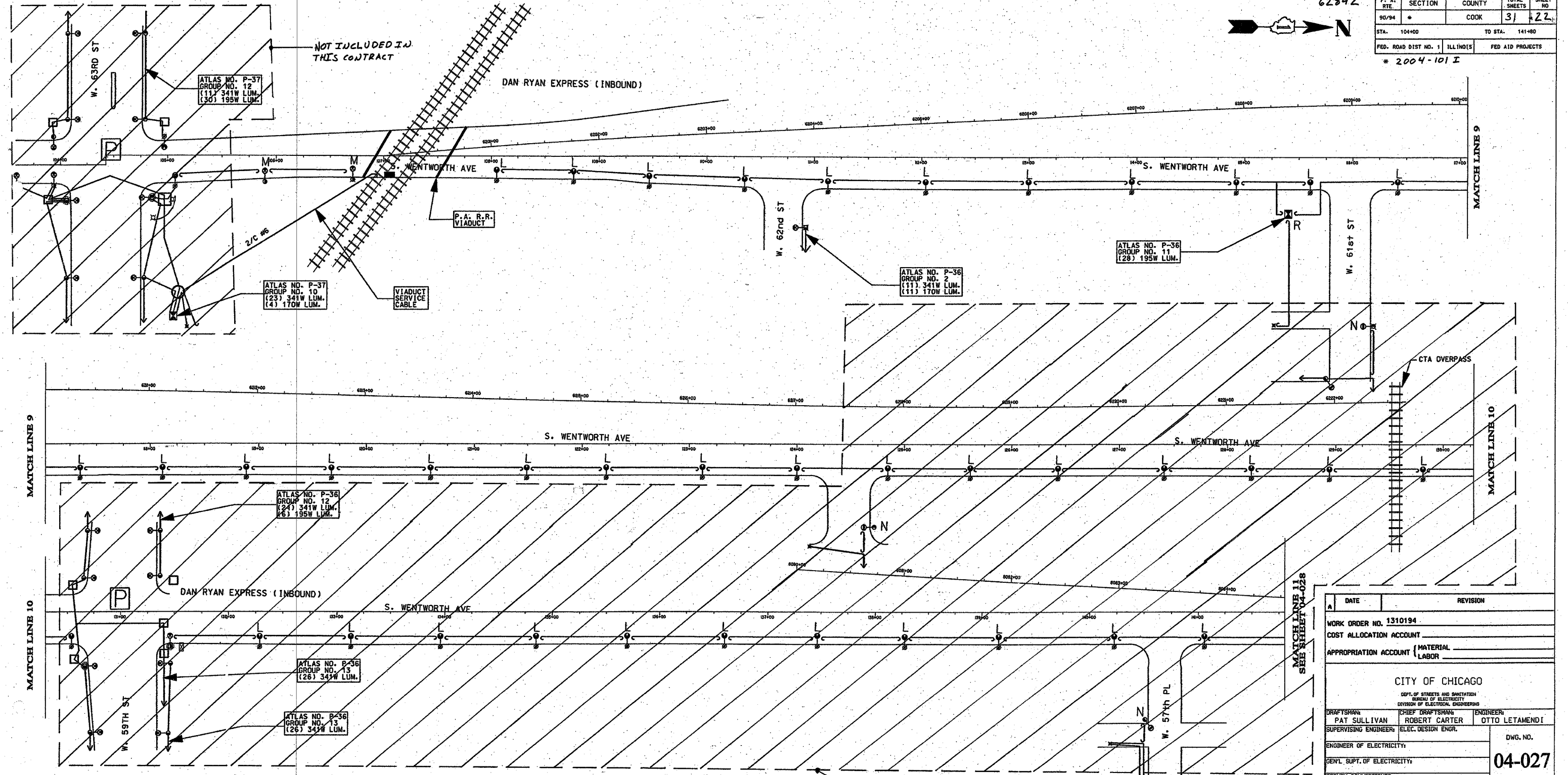
REMOVAL OF STREET LIGHTING EQUIPMENT

SCALE: NONE DRAWN BY: P.R.S.
 DATE: February 11, 2005 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62842

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	22
STA. 104+00	TO STA. 141+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECTS		
* 2004-101 I				



NOT INCLUDED IN THIS CONTRACT

NOT INCLUDED IN THIS CONTRACT

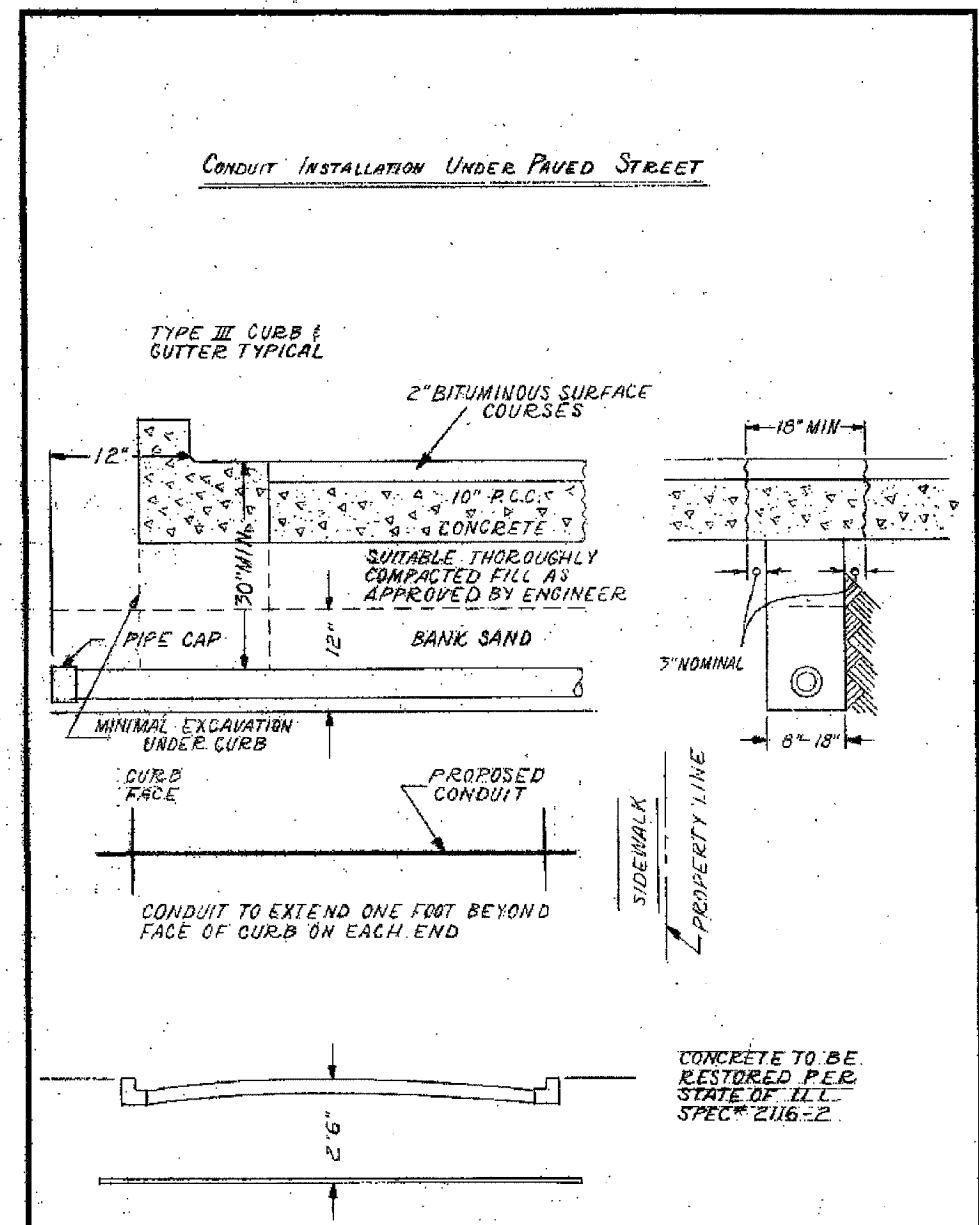
NOTES:

- "L" - REMOVE EMBEDDED STEEL POLE WITH LUMINAIRE AND MAST ARM.
- "M" - REMOVE ANCHOR BASE STEEL POLE WITH LUMINAIRE AND MAST ARM. BREAKDOWN FOUNDATION COMPLETE.
- "N" - REMOVE AND RELOCATE ANCHOR-BASE STEEL POLE.
- "P" - SEPARATE CONTRACTOR TO REPLACE EXISTING STREET LIGHTS AT INTERSECTION.
- "R" - REMOVE POST MOUNTED STREET LIGHT CONTROLLER, REMOVE SERVICE EQUIPMENT, AND BREAKDOWN FOUNDATION COMPLETE.

FOR UNDERGROUND PLAN SEE SHEETS 04-008, 04-009, 04-010
 FOR INSTALLATION PLAN SEE SHEETS 04-020, 04-021


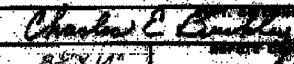


REVISIONS	
NAME	DATE

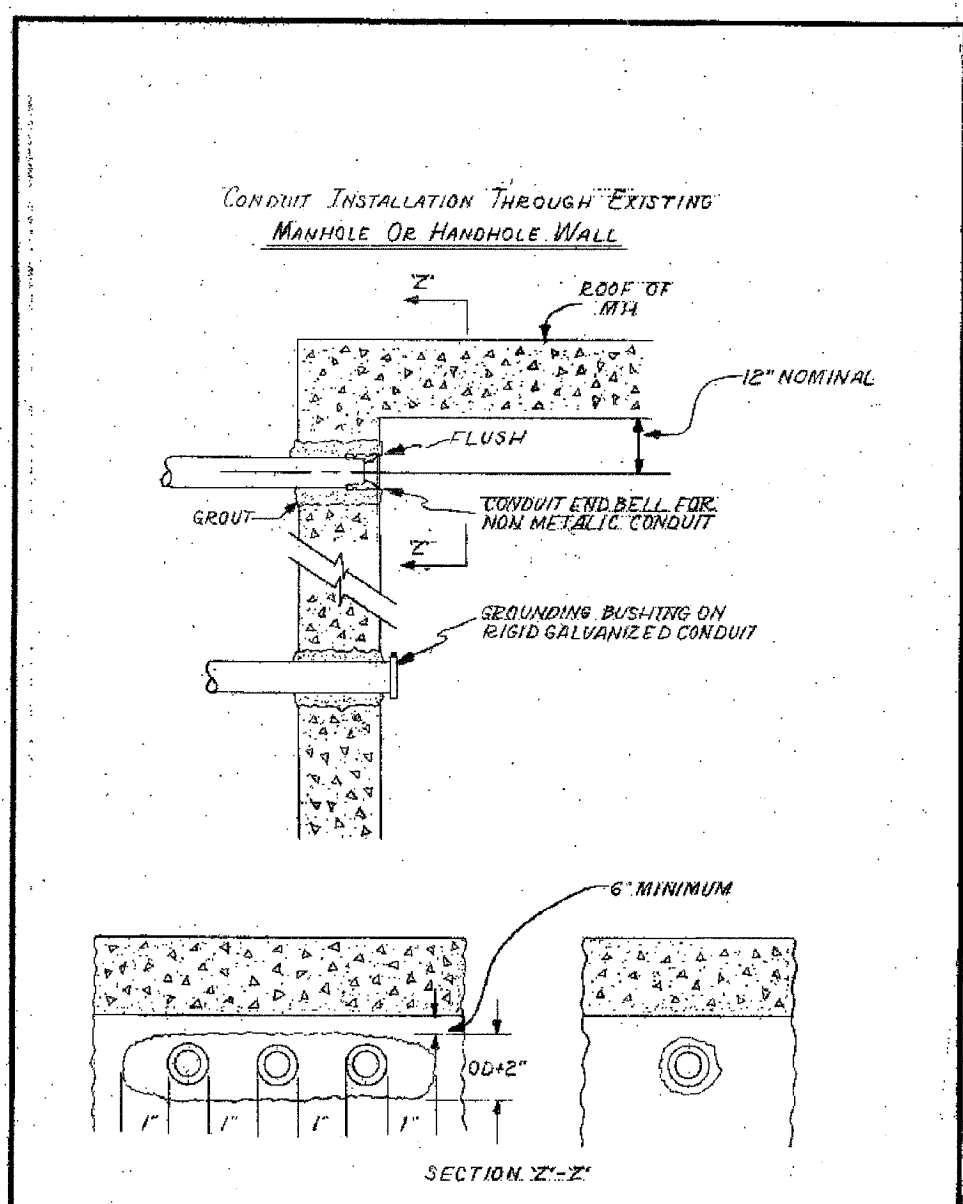
A	DATE	REVISION
WORK ORDER NO. 1310194		
COST ALLOCATION ACCOUNT		
APPROPRIATION ACCOUNT (MATERIAL)		
LABOR		
CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION		
BUREAU OF ELECTRICITY		
DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN	CHIEF DRAFTSMAN	ENGINEER
PAT SULLIVAN	ROBERT CARTER	OTTO LETAMENDI
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO.
GENL. Supt. OF ELECTRICITY:		04-027
DEPUTY COMMISSIONER:		
SIZE: 22" x 36"	SCALE: NONE	DATE: 1/12/04
ILLINOIS DEPARTMENT OF TRANSPORTATION		
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)		
63rd St. TO 57th St. (FRONTAGE ROADS)		
REMOVAL OF STREET LIGHTING EQUIPMENT		
SCALE: NONE	DRAWN BY: P.R.S.	
DATE: February 11, 2005	CHECKED BY: O.L.	



*INSTALLATION METHOD OF
INSTALLING CONDUIT UNDER
PAVED ROADWAY*



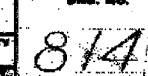

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCOWSKI	DESIGNED E.L. MARTIN
 <small>ENGINEER OF ELECTRICITY</small>		 <small>ENGINEER</small>
		
DATE 8/2/14	SCALE AS SHOWN	DATE



*INSTALLATION METHOD OF
INSTALLING CONDUIT THRU
MANHOLE WALL*

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCOWSKI	DESIGNED E.L. MARTIN
 <small>ENGINEER OF ELECTRICITY</small>		 <small>ENGINEER</small>
		
DATE 8/2/14	SCALE AS SHOWN	DATE

OPENING THROUGH WALL TO BE KEPT TO MINIMUM SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.

REVISIONS	
NAME	DATE

I:\2004-101\F-40468\LE\6614-CIT-95\CONTRACT\9026020022424.dwg
 08/02/2005 08:34:25 AM

PROPOSED PRESENT

- SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
- * SIGNAL OPTICALLY PROGRAMMED
- ⊞ SIGNAL, PEDESTRIAN, DON'T WALK/WALK
- SIGNAL FACE ARROW, 12" COLOR AS NOTED
- SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
- ⊙ PUSH BUTTON, PEDESTRIAN
- ⊞ SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
- ⊞ MAST ARM, MONOTUBE, STEEL, SIZE AS INDICATED (SEE DWG. #870)
- ⊞ MAST ARM, TRUSS, ALUMINUM, SIZE AS INDICATED
- ⊞ CONTROLLER, TRAFFIC SIGNAL, PEDESTAL OR BASE MOUNTED AS INDICATED
- ⊞ CONTROLLER, STREET LIGHTING, PEDESTAL OR BASE MOUNTED. (DWG. #876 or #880)
- ⊞ CONTROLLER, STREET LIGHTING, POLE MOUNTED (DWG. #11940)
- ⊞ POLE, WOOD, COMMONWEALTH EDISON COMPANY, SERVICE
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA., 10" DIA. AND 15" B.C. 24"x7" FND. W/1 1/4" ANCHOR RODS DRG. #818.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 10" DIA. AND 15" B.C. 24"x9" FND. W/1 1/4" ANCHOR RODS DRG. #818 (16', 20' or 26' M.A.)
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 11" DIA. AND 17 1/4" B.C. 30"x9" FND. W/1 1/4" ANCHOR RODS DRG. #816. (30' M.A.)
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 12 1/2" DIA. AND 16 1/2" B.C. 30"x11" FND. W/1 1/2" ANCHOR RODS DRG. #817. (35', 40' or 44' M.A.)
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B.C. ON 30"x9" FND. W/ 1 1/4" ANCHOR RODS DRG. #816.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 20'.27'-6".29'-6", 7 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 20'.27'-6".29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #719.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 20'.27'-6".29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 20'.27'-6".29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"x7" WITH 1" ANCHOR RODS DRG. #691.
- ⊞ POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"x7" WITH 1" ANCHOR RODS DRG. #691.
- ⊞ POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
- ⊞ POLE, CITY STEEL, EMBEDDED, 4"x 9"x 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
- ⊞ POLE, CITY STEEL, EMBEDDED, 4"x 9"x 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
- ⊞ POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
- ⊞ COLUMN, ELEVATED STRUCTURE
- ⊞ POLE, WOOD. (SIZE AS NOTED)
- ⊞ POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
- ⊞ POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED PRESENT

- ⊞ HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866)
- ⊞ HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
- ⊞ MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
- ⊞ FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C., 20"X5' (DWG. #709)
- ⊞ FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
- ⊞ FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
- ⊞ FOUNDATION, CONTROLLER STREET LIGHT, SPECIAL, 100A & 200A. (DWG.#876 & # 880)
- ⊞ FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
- ⊞ CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
- ⊞ MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A; S=SEWER
- ⊞ JUNCTION BOX, IN PAVEMENT (DWG. #815)
- ⊞ DETECTOR LOOP IN PAVEMENT
- ⊞ CONDUIT or P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
- ⊞ CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION OR NUMBER OF CONDUIT INDICATED)
- ⊞ LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
- ⊞ LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
- ⊞ LUMINAIRE, H.P.S.V. 310W LAMP, 240V
- ⊞ LUMINAIRE, H.P.S.V. 310W LAMP, 240V, CUTOFF
- ⊞ LUMINAIRE, H.P.S.V. 150W LAMP, 240V
- ⊞ LUMINAIRE, H.P.S.V. 150W LAMP, 120V
- ⊞ LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
- ⊞ LUMINAIRE, H.P.S.V. 250W LAMP, 120V
- ⊞ TERMINAL, CABINET F.A. & P.C.
- ⊞ FIRE ALARM BOX, MOUNTED
- ⊞ FIRE ALARM BOX, POLE MOUNTED
- ⊞ CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL, 10/C-#12 600V. EPR IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL, 14/C-#14, 600V. EPR IN CONDUIT
- ⊞ CABLE, TRAFFIC SIGNAL, 19/C-#12 600V, EPR IN CONDUIT
- ⊞ CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
- ⊞ CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
- ⊞ CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
- ⊞ CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
- ⊞ WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
- ⊞ WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
- ⊞ CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR.
- ⊞ WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
- ⊞ CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
- ⊞ CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
- ⊞ CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
- ⊞ DOWNLIGHT ASSEMBLY. (DWG. #850)
- ⊞ LIGHT, TRAFFIC SAFETY ISLAND
- ⊞ FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES

PROPOSED	EXISTING	
⊞	⊞	310W PENDANT (240V)
⊞	⊞	400W PENDANT (240V)
⊞	⊞	250W PENDANT (240V)
⊞	⊞	150W ACORN (120V)
⊞	⊞	150W ACORN (240V)
⊞	⊞	50W ACORN (240V)
⊞	⊞	100W ACORN (240V)
⊞	⊞	150W GLOBE (240V)
⊞	⊞	100W GLOBE (240V)
⊞	⊞	50W GLOBE (240V)

C 04-01-02	REVISED/REDRAW	R. POOL/B. I.
B 12-4-01	ADDED ORNAMENTAL SYMBOLS	
A 8-6-96	REDRAWN	
DATE	REVISION	
STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSPERSON R. IVY	CHIEF DRAFTSPERSON R. CARTER	ENGINEER R. POOL/R.C./W.T.
SUPERVISING ENGINEER	ELECTRICAL ENGINEER	DWG. NO.
ENGINEER OF ELECTRICAL		826
DEPT. CHIEF OF CONSTRUCTION		DATE:
DEPUTY CHIEF OF CONSTRUCTION		
SIZE: 22" x 36"	SCALE:	

BOE-3

REVISIONS	
NAME	DATE

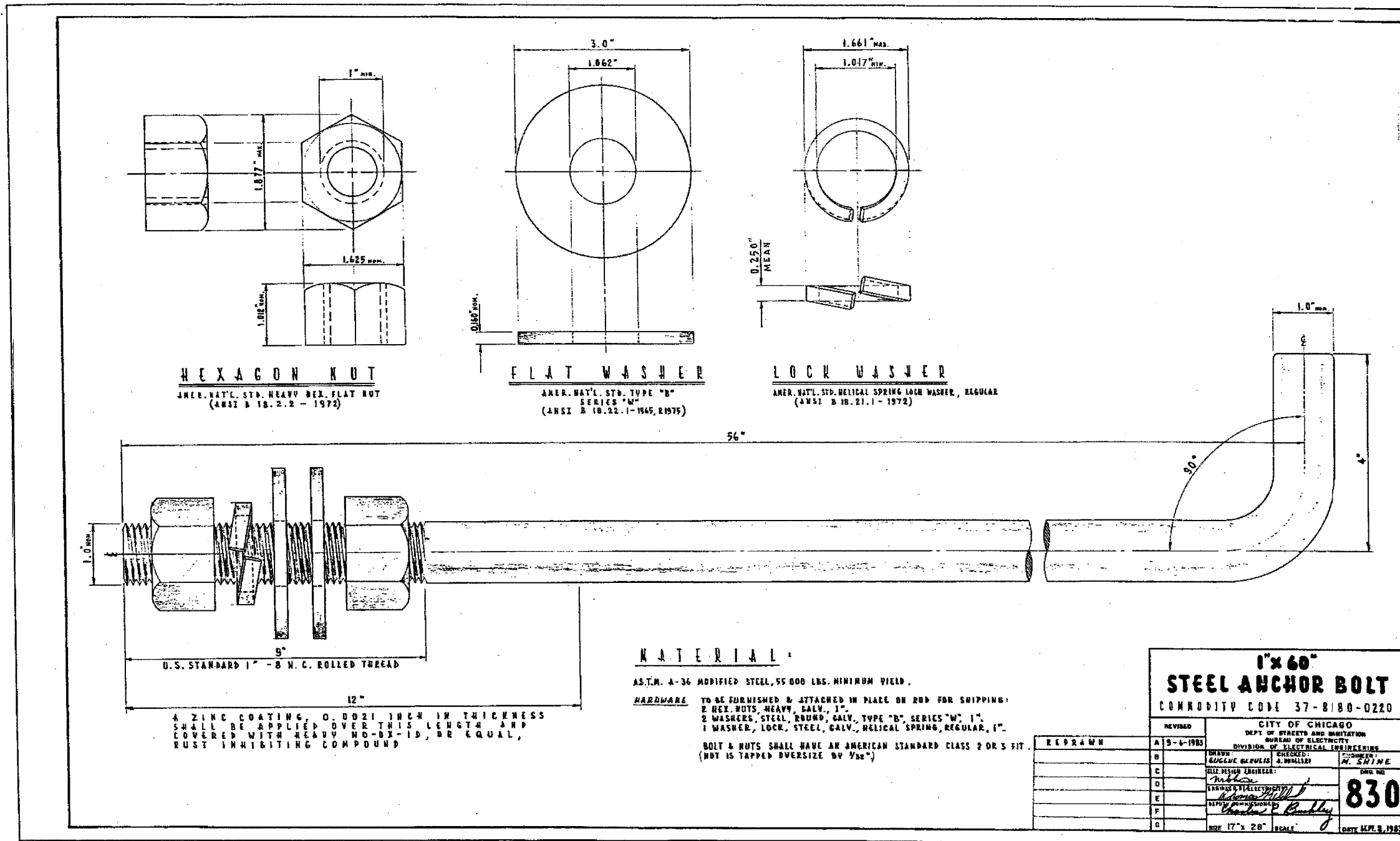
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

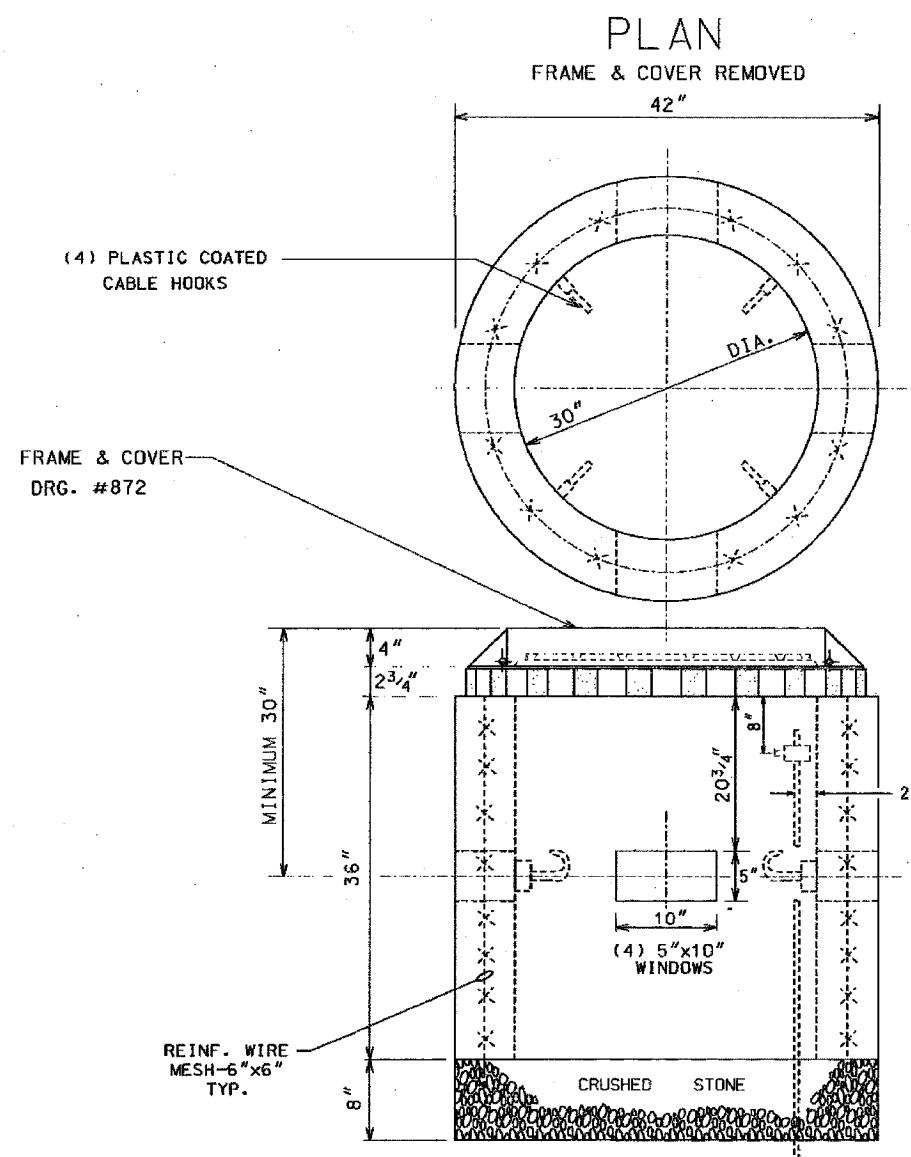
BOE STANDARD DETAILS

SCALE: NONE DRAWN BY: HAR
DATE: February 11, 2005 CHECKED BY: WDS



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COMPLETE COMMODITY CODE NO. 05-6610-5310M

CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRUSHED	BAG	5
(2) 05-5082-5330	SONO TUBE	30"	1
(2) 05-5082-5342	SONO TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
 (2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

- 8" BED OF STONE FOR DRAINAGE.
- ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.

B	81-23-88	ADDED LABEL HOOKS PER COMMISSIONER MURPHY	ERC/MD
A	12-8-95	REDRAW (CAD)	MP.
	DATE	REVISION	
30" DIA. CONCRETE HANDHOLE			
CITY OF CHICAGO DEPT. OF STREET AND SANITATION DIVISION OF ELECTRICITY DIVISION OF SUPPORTING INFRASTRUCTURE			
DRAWN BY:	ENGINEER	INVENTOR	TRUCKER
M. PATTON	D. CARTER		DEBARTOLO
SUPERVISING ENGINEER	ETPC APPROV. ENGINEER		
FINDINGS OF ELECTRICAL			UNQ. NO.
GENERAL SUPPLY OF ELECTRICITY			867
DEPARTMENT OF COMMISSIONER			
SIZE: 11"	17"	SCALE: NONE	DATE: 12-8-95

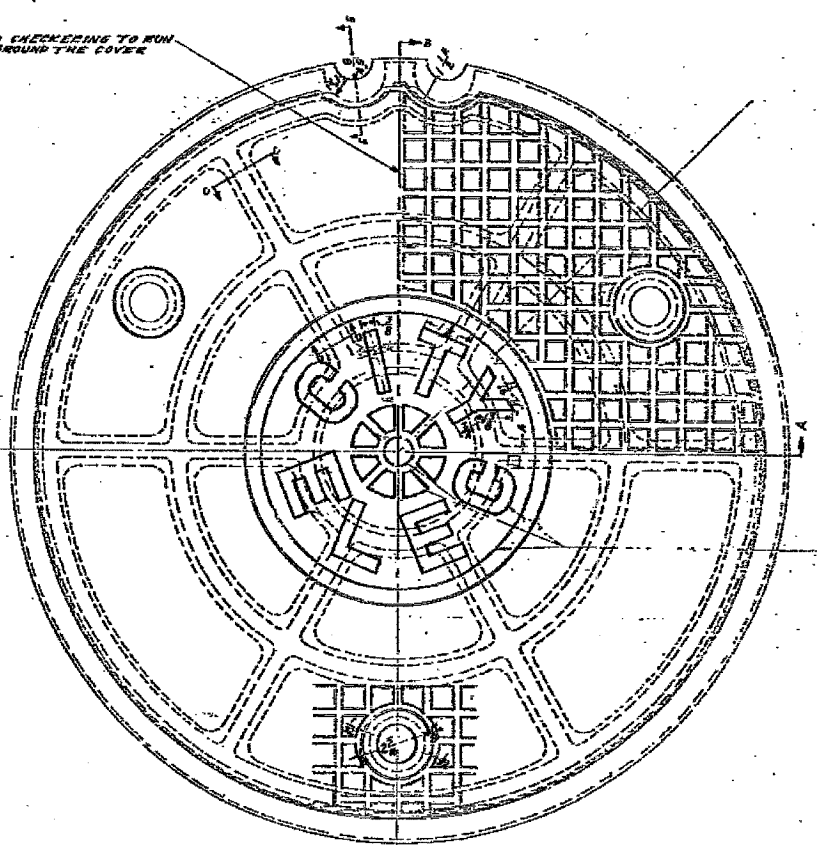
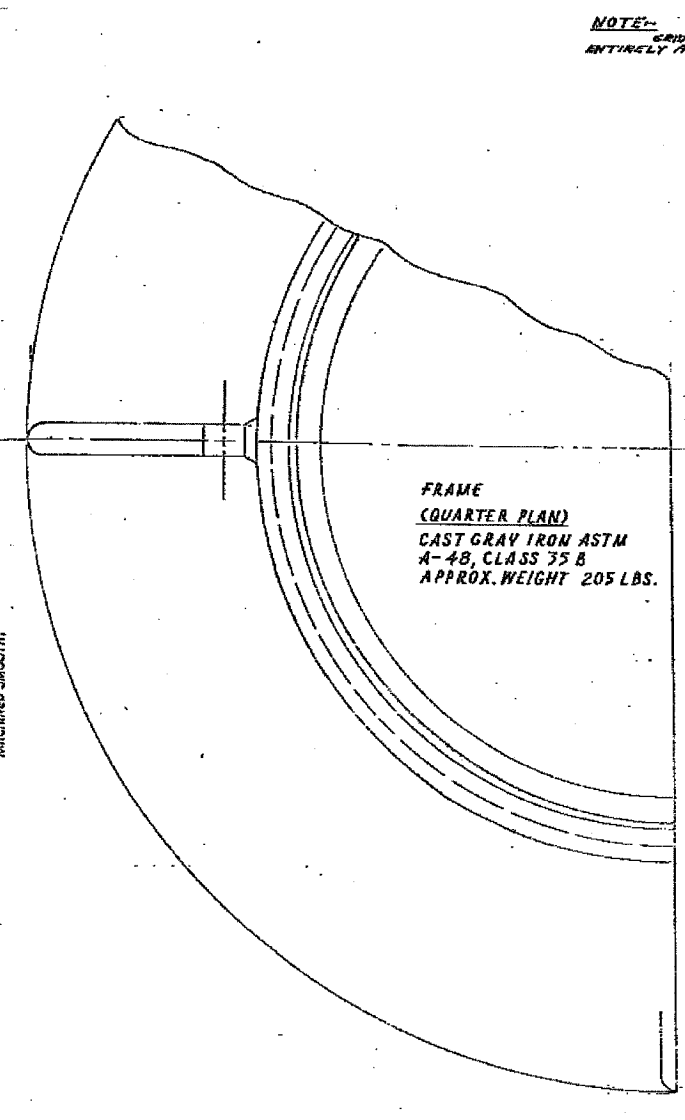
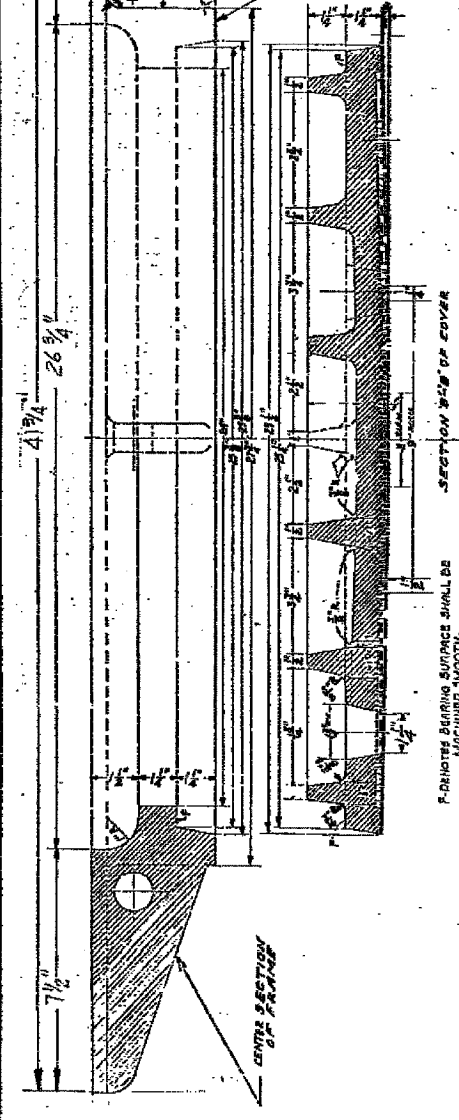
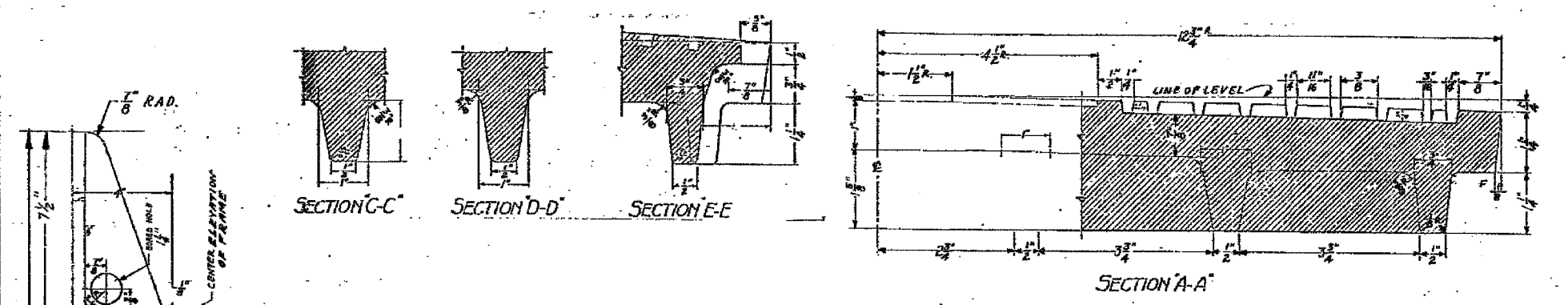
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63rd ST TO 59th ST (FRONTAGE ROADS)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WELLS STREET AND WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE
 DATE: February 11, 2005
 DRAWN BY: HAR
 CHECKED BY: WDS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	28
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



NOTE - GRID CHECKING TO RUN ANTINELY AROUND THE COVER

NOTE - THE TOP SURFACE OF THE 3 CIRCLES AND ALL OF THE LETTERS TO BE RAISED 1/8\"/>

COMMODITY CODE
FRAME COVER - 02 4574-5040

SUPERSEDES DWG# 10797
DATED 2-10-35

**24" DIA. CIRCULAR MANHOLE
FRAME & COVER WITH 41 3/4" O.D.
FRAME**

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DATE: 4-24-92

872

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE
DATE: February 11, 2005

DRAWN BY: HAR
CHECKED BY: WDS

02/02/2005 09:32:00 AM

NOTES:

NOTES

1. EXCAVATION OF THE POLE FOUNDATION MUST BE MADE WITH AN AUGER, 30" IN DIAMETER
2. THE ANCHOR WILL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
3. THE ANCHOR BOLTS AND CONDUITS MUST BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM
4. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS MUST BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A153
5. ANCHOR BOLTS AND CONDUITS MUST PROJECT 5-3/4" ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR MUST CONFIRM ANCHOR BOLT AND CONDUIT EXTENSIONS WITH ENGINEER.
6. POLES MUST BE INSTALLED PER DRAWING 837
7. THE CONDUIT TRENCH MUST BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED
8. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS S1 CONCRETE
9. ALL REINFORCEMENT SHALL HAVE A MINIMUM 3" COVER OF CONCRETE

RE-BAR SCHEDULE

MARK	NO.	SIZE	SHAPE	LENGTH
o	10	6	—	7'-0"
s	4	4	□	7'-8"
s1	3	3	□	6'-8"
s2	1	3	○	99'-3"
s3	1	3	○	99'-8"
v1	8	6	—	2'-11"
v2	8	6	—	9'-0"

OFFSET FOUNDATION FOR LIGHT POLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY ENGINEER: GARNSEY, LETAMENDI

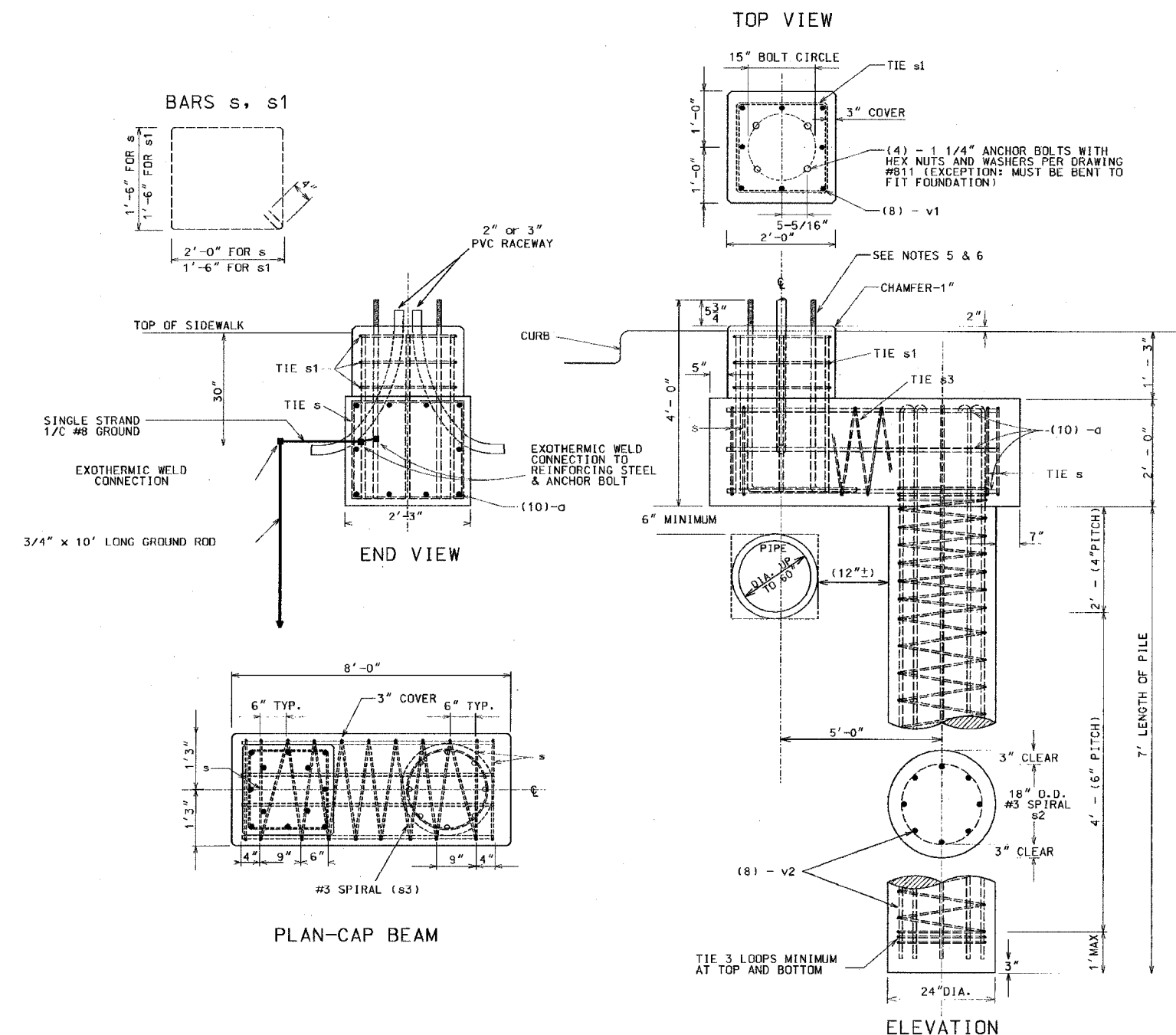
SUPERVISING ENGINEER: ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICAL ENGINEERING

GEN'L Supt. OF ELECTRICAL ENGINEERING

DATE: 1/28/03

SIZE: 36" | 22" SCALE: N.T.S. DWG. NO. 937



(NOTE 1)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

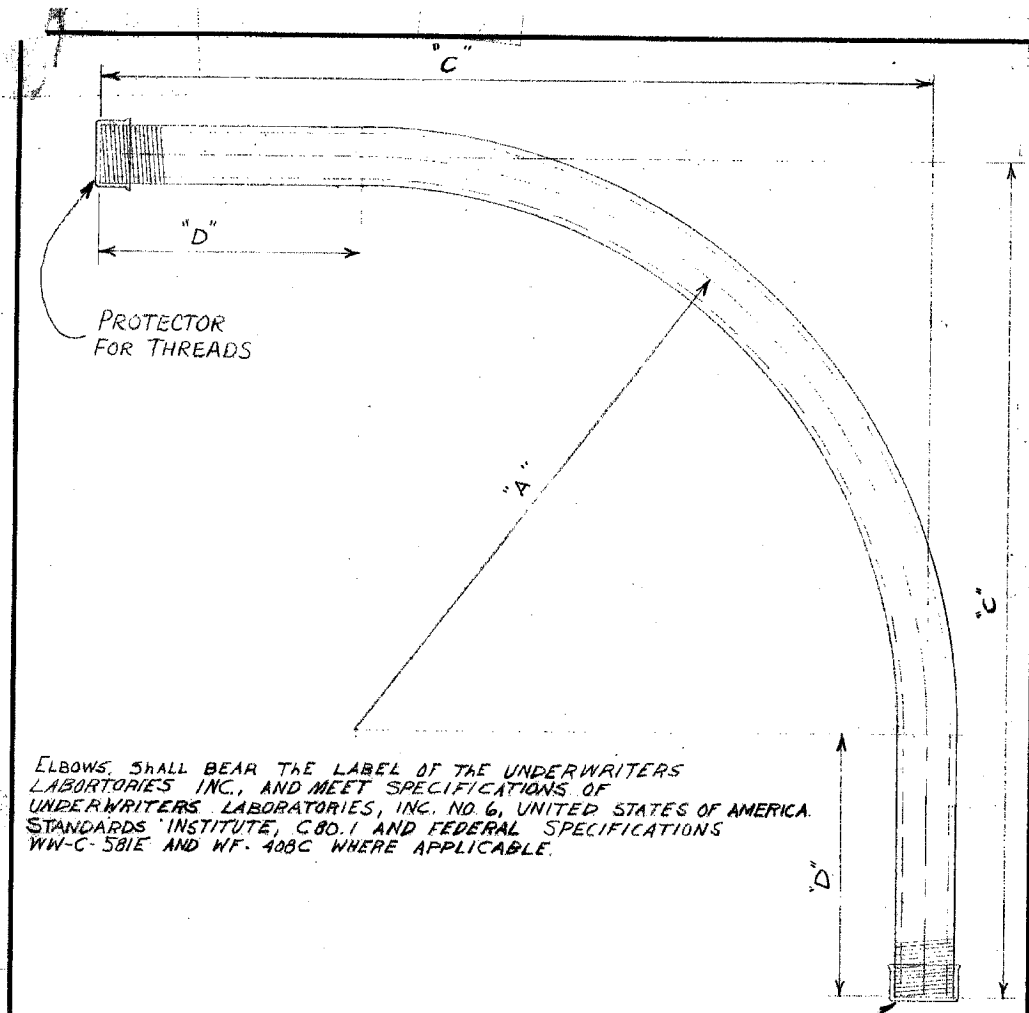
BOE STANDARD DETAILS

SCALE: NONE DRAWN BY: HAR
DATE: February 11, 2005 CHECKED BY: WDS

BOE-7

02/02/2005 09:32:02 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	30
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62842				



ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO. 6, UNITED STATES OF AMERICA. STANDARDS INSTITUTE, C80.1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE:
TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

REAM BOTH ENDS TO REMOVE BURRS

CONDUIT SIZE	DIMENSIONS			COMMODITY CODE
	A	C	D	
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

B SPECIFICATIONS REVISED
A REVISED DIMENSIONS ON 3" & 4" CONDUIT L.P.

ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS

REVISED	CITY OF CHICAGO	
A 7-22-71	DEPT. OF STREETS AND SANITATION	
B 4-3-73	BUREAU OF ELECTRICITY	
C	DIVISION OF ELECTRICAL ENGINEERING	
D	DRAWN	CHECKED
E	LON BURDY	M.S.
F	ENGINEER	
G	M. SHINE	
	DRG. NO.	11825
	DEPUTY CHIEF	
	SCALE: 3/16"	DATE: 6-2-71

NAME	DATE

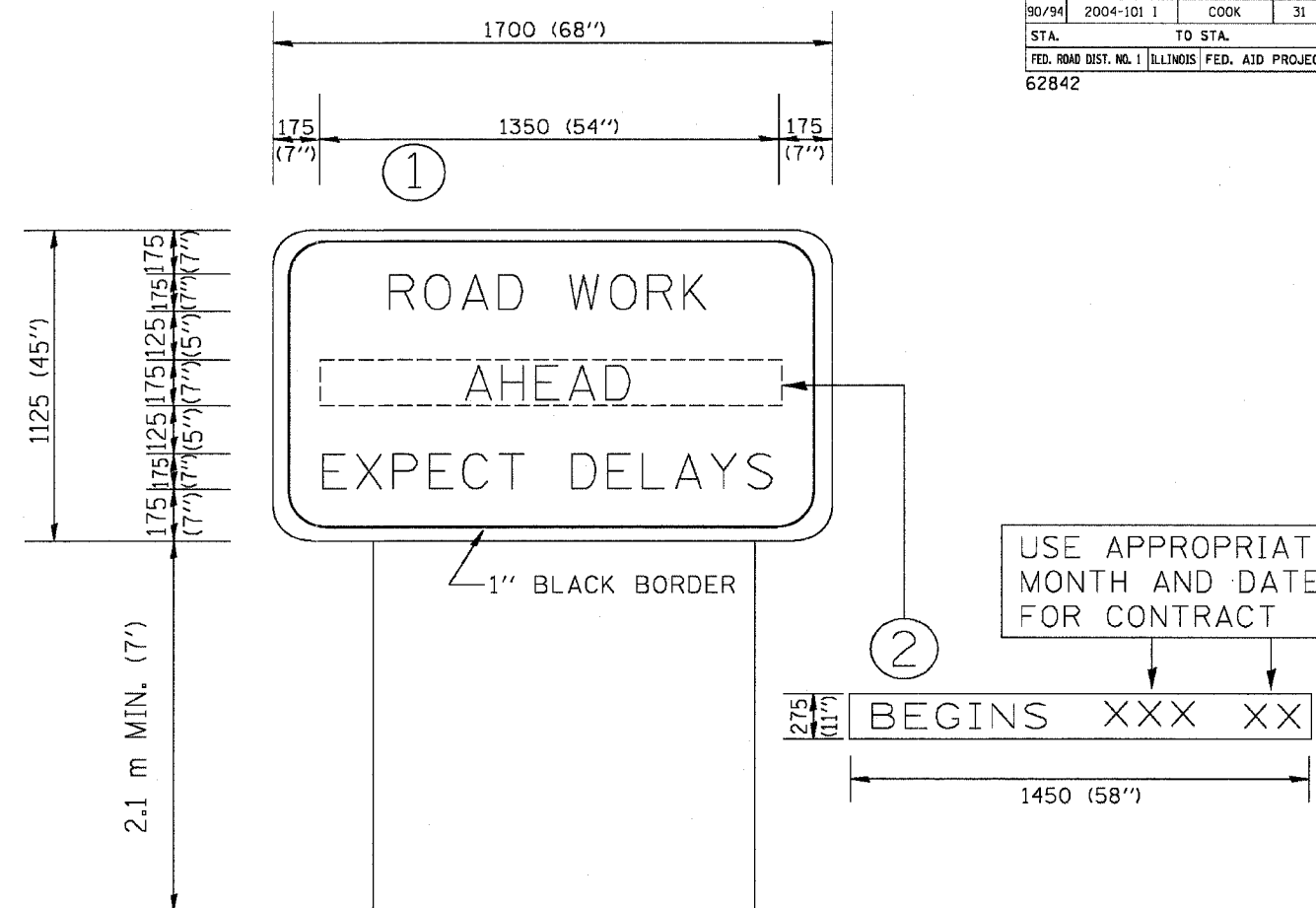
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WELLS STREET AND WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE
DATE: February 11, 2005

DRAWN BY: HAR
CHECKED BY: WDS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-101 1	COOK	31	31
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62842				



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE:
DATE 10/18/2002

DRAWN BY: BUR. OF DESIGN
CHECKED BY:

TC22
REVISION DATE: 02/02/99