

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-0991S	COOK	65	17
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62840				

CITY OF CHICAGO STANDARD DRAWINGS

- 659. TWO BOLT MAST ARM ATTACHMENT POLE PLATE DETAILS
- 724. TWO BOLT MAST ARM ATTACHMENT (BRACKET DETAILS)
- 730. 3'X4'X4' CONCRETE MANHOLE WITH 24" FRAME AND COVER
- 736. TYPICAL GROUNDING METHODS FOR BUREAU OF ELECTRICITY EQUIPMENT
- 740. TRAFFIC SIGNAL UPPER & LOWER BRACKET ARM ASSEMBLY
- 741. TRAFFIC SIGNAL BRACKET ARM ASSEMBLY
- 793A. FORM CAGE TYPE STEEL REINFORCING ROD FOR STREET LIGHT FOUNDATION
- 806. 1-1/2" x 60" STEEL ANCHOR ROD
- 813. INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY
- 814. INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL
- 817. FOUNDATION FOR 34'-6" TRAFFIC SIGNAL POLE WITH 16 1/2" BOLT CIRCLE
- 826. STANDARD CODE FOR TRAFFIC SIGNALS/STREET LIGHTING
- 827. 7.67"X12.5" STEEL/34'-6" POLE 3 GAUGE
- 828. FOUNDATION FOR STREET LIGHT POLE USING DOUBLE NUT CONSTRUCTION WHEN INSTALLED IN FULL SIDEWALK OR PAVED PARKWAY
- 832. JUNCTION BOX FOR TRAFFIC AND FIRE ALARM
- 834. TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS
- 835. TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS
- 837. CONSTRUCTION METHOD FOR "DOUBLE NUT" INSTALLATION OF POLES AND PEDESTALS
- 870. STEEL TRAFFIC SIGNAL MAST ARM-MONOTUBE
- 872. 24" DIA. CIRCULAR MANHOLE FRAME & COVER WITH 4 1/4" O.D. FRAME
- 888. TYPE "P" FOUNDATION FOR BASE MOUNTED TRAFFIC SIGNAL CONTROL CABINET
- 909 FIBER OPTIC PATCH PANEL
- 7878. PULLING IRON
- 10792. GRATE FOR SUMP
- 11420-A. CAST POLE TOP FOR STEEL POLE
- 11825. ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS
- 11984. BANDING FITTINGS FOR POLE MOUNTING TRAFFIC SIGNAL
- 12268-A. TRAFFIC CONTROL SIGNALS STRIP WIRING LAYOUT

BILL OF MATERIALS - TRAFFIC SIGNALS

DESCRIPTION	UNIT	TOTAL
PVC CONDUIT IN TRENCH, 3" DIA. (SCHEDULE 40)	FOOT	140
PVC CONDUIT IN TRENCH, 4" DIA. (SCHEDULE 40)	FOOT	6
PVC CONDUIT IN TRENCH, 3" DIA. (SCHEDULE 80)	FOOT	694
INNERDUCT IN CONDUIT, 1/4" INCH	FOOT	579
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	644
REPAIR AND REPLACE DAMAGED CONDUIT	FOOT	65
JUNCTION BOX, POLE OR POST MOUNTED	EACH	3
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	28
CLEAN EXISTING MANHOLE OR HANDHOLE	EACH	8
RACKING CABLES IN MANHOLE OR HANDHOLE	EACH	9
TRENCH AND BACKFILL WITH SCREENINGS AND/OR SAND	FOOT	381
ELECTRIC CABLE IN CONDUIT, 1/C NO.4	FOOT	740
ELECTRIC CABLE IN CONDUIT, 1/C NO.8	FOOT	370
ELECTRICAL MANHOLE 3'X4'X4' WITH 24" FRAME AND LID	EACH	1
CABINET WORK, SPLICING, TESTING AND MISC.	EACH	2
PAINT EXISTING POLE, POST OR CONTROLLER COMPLETE	EACH	7
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	LSUM	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
CONTROLLER, TRAFFIC, 16 LOAD BAY, P CABINET	EACH	2
TRANSCEIVER, FIBER OPTIC	EACH	2
STAR MODEM	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 12 19/C	FOOT	1086
FIBER OPTIC HYBRID CABLE IN CONDUIT 6SM/6MM	FOOT	639
TRACER CABLE	FOOT	579
ELECTRIC CABLE IN CONDUIT, COAXIAL VIDEO, RG 59/U	FOOT	197
MAST ARM, STEEL, MONOTUBE 35 FT.	EACH	1
POLE, STEEL, ANCHOR BASE, 12 1/2" DIA., 3-GUAGE, 34'-6"	EACH	1
CONCRETE FOUNDATION, 30" DIAMETER, 1 1/2" ANCHOR RODS, 16 1/2" BOLT CIRCLE	FOOT	11
CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	12
VIDEO SYSTEM DETECTION CAMERA, VIDEO SYSTEM DETECTION PROCESSOR	EACH	2
SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, BRACKET MOUNTED	EACH	4
SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, MAST ARM MOUNTED	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	LSUM	1
REMOVE EXISTING HANDHOLE OR MANHOLE	EACH	1
REMOVE CONTROLLER FOUNDATION TYPE A	EACH	1
REMOVE TRAFFIC SIGNAL POLE FOUNDATION	EACH	1
REMOVE FOUNDATION FOR BASE MOUNTED CONTROLLER	EACH	1
SPECIAL EXCAVATION AND REPLACEMENT FOR CONDUIT UNDER CTA TRACK	FOOT	54

TRAFFIC SIGNAL NOTES

1. WHILE EVERY ATTEMPT HAS BEEN MADE TO PROVIDE DRAWINGS AND SPECIFICATIONS FREE OF ERROR, OMISSION OR DISCREPANCY, IT NEVERTHELESS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS AND GEOMETRY AND RECTIFY DISCREPANCIES OR OMISSIONS WITH NO ADDITIONAL COMPENSATION.
2. CONTRACTOR SHALL NOTE THAT THE QUANTITY FOR "REPAIR AND REPLACE DAMAGED CONDUIT" IS UNKNOWN. THE DESIGNER HAS ASSUMED 10% OF EXISTING MAIN CONDUITS THAT ARE USED, MAY NEED REPAIR.
3. ALONG BOTH WENTWORTH AVENUE AND 63RD STREET, THE OLD BURIED CTA TRACKS MAY STILL EXIST. THE ITEM "SPECIAL EXCAVATION AND REPLACEMENT FOR CONDUIT UNDER CTA TRACK" HAS BEEN PROVIDED TO ACCOUNT FOR SUCH ENCOUNTERS. THE LENGTH OF EXCAVATION IS SET AT 18', AS DIRECTED BY THE BOE SPECIFICATION. THIS LENGTH IS USED AT LOCATION WHERE THE PROPOSED CONDUIT IS CROSSING THE TRACK.
4. CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE IDOT CONTRACT 9C (62693) AND OTHER ADJACENT CONTRACTS.
5. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING SO AS NOT TO DAMAGE THE EXISTING TRAFFIC SIGNAL OR ELECTRICAL EQUIPMENT OR WORK BY OTHER CONTRACTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
6. ALL CONDUITS TO BE REPAIRED AND REPLACED SHALL BE VERIFIED BY THE ENGINEER.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
TRAFFIC SIGNALS AT 63RD STREET AND
WENTWORTH AVENUE/ WELLS STREET
TRAFFIC CONTROL SIGNALS
BILL OF MATERIALS, INDEX OF STANDARD
DRAWINGS, AND TRAFFIC SIGNAL NOTES

SCALE: NONE DRAWN BY: SH
DATE: November 05, 2004 CHECKED BY: MS

17-307-2004 04-07-00 PH