

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-09BTS	COOK	63	17
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62839

CITY OF CHICAGO STANDARD DRAWINGS

BILL OF MATERIALS - TRAFFIC SIGNALS

- 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
- 808. 5.17" x 10.0" STEEL/34"-6" POLE 7 OR 3 GAUGE
- 811. 1-1/4" 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
- 818. FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE 3 OR 7 GAUGE WITH 15" 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
- 11922 JUNCTION BOX FOR ARTERIAL STREET LIGHTING SERVICE ON C.E. CO. POLE
- 11925 INSTALLATION OF SERVICE EQUIPMENT ON C.E. CO. WOOD POLES
- 11984. BANDING FITTINGS FOR POLE MOUNTING TRAFFIC SIGNAL
- 12268-A. TRAFFIC CONTROL SIGNALS STRIP WIRING LAYOUT

DESCRIPTION	UNIT	TOTAL
SERVICE INSTALLATION, 100 AMP	EACH	1
PVC CONDUIT IN TRENCH, 3" DIA. (SCHEDULE 40)	FOOT	50
PVC CONDUIT IN TRENCH, 4" DIA. (SCHEDULE 40)	FOOT	20
PVC CONDUIT IN TRENCH, 3" DIA. (SCHEDULE 80)	FOOT	236
INNERDUCT IN CONDUIT, 1/4" INCH	FOOT	734
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	782
REPAIR AND REPLACE DAMAGED CONDUIT	FOOT	80
INTERCEPT EXISTING CONDUIT	EACH	1
JUNCTION BOX, POLE OR POST MOUNTED	EACH	3
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	4
CLEAN EXISTING MANHOLE OR HANDHOLE	EACH	7
RACKING CABLES IN MANHOLE OR HANDHOLE	EACH	9
TRENCH AND BACKFILL WITH SCREENINGS AND/OR SAND	FOOT	148
ELECTRIC CABLE IN CONDUIT, 1/C NO.4	FOOT	718
ELECTRIC CABLE IN CONDUIT, 1/C NO.8	FOOT	359
ELECTRICAL MANHOLE 3'X4'X4' WITH 24" FRAME AND LID	EACH	2
CABINET WORK, SPLICING, TESTING AND MISC.	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	LSUM	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
CONTROLLER, TRAFFIC, 16 LOAD BAY, P CABINET	EACH	1
TRANSCEIVER, FIBER OPTIC	EACH	2
STAR MODEM	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 12 19/C	FOOT	568
FIBER OPTIC HYBRID CABLE IN CONDUIT 6SM/6MM	FOOT	794
TRACER CABLE	FOOT	734
MAST ARM, STEEL, MONOTUBE 26 FT.	EACH	1
MAST ARM, STEEL, MONOTUBE 35 FT.	EACH	1
MAST ARM, STEEL, MONOTUBE 40 FT.	EACH	1
POLE, STEEL, ANCHOR BASE, 10" DIA., 3-GUAGE, 34'-6"	EACH	1
POLE, STEEL, ANCHOR BASE, 12 1/2" DIA., 3-GUAGE, 34'-6"	EACH	2
CONCRETE FOUNDATION, 24" DIAMETER, 1/4" ANCHOR RODS, 15" BOLT CIRCLE	FOOT	9
CONCRETE FOUNDATION, 30" DIAMETER, 1/2" ANCHOR RODS, 16 1/2" BOLT CIRCLE	FOOT	22
CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	5
SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, MAST ARM MOUNTED	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1
REMOVE FOUNDATION FOR BASE MOUNTED CONTROLLER	EACH	1
MODIFY EXISTING TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1
SPECIAL EXCAVATION AND REPLACEMENT FOR CONDUIT UNDER CTA TRACK	FOOT	18

TRAFFIC SIGNAL NOTES

1. WHILE EVERY ATTEMPT HAS BEEN MADE TO PROVIDE DRAWINGS AND SPECIFICATIONS FREE OF ERRORS, OMISSIONS OR DISCREPANCIES, IT NEVERTHELESS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS AND GEOMETRY IN THE FIELD PRIOR TO THE CONSTRUCTION, FABRICATION AND ORDERING OF MATERIALS. THE CONTRACTOR SHALL RECTIFY DISCREPANCIES OR OMISSIONS, IF ANY, WITH NO ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK.
2. THE 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. 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.
4. AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC SIGNAL OPERATIONS AT PRINCETON AND 59TH FOR THE DURATION OF HIS/HER CONTRACT WORK.
5. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE IDOT CONTRACT 9C (62693), CDOT CONTRACT E-1-007 AND OTHER ADJACENT CONTRACTS.
6. ALL CONDUITS TO BE REPAIRED AND REPLACED SHALL BE VERIFIED BY THE ENGINEER.
7. AT WENTWORTH AVENUE AND 59TH STREET BRIDGE INTERSECTION, 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.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
TRAFFIC SIGNALS AT 59TH 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 12, 2004 CHECKED BY: MS

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