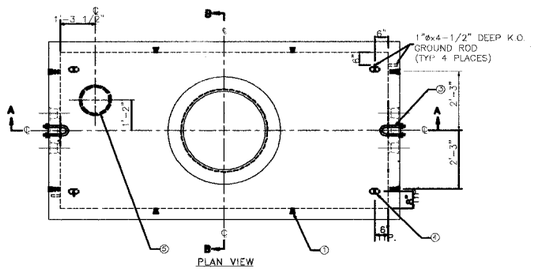
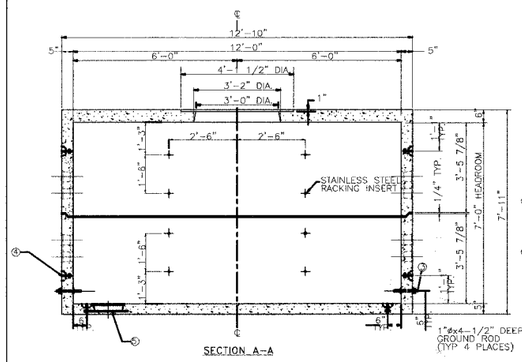
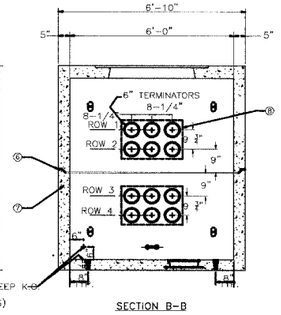
F.A. RTE. 2552	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	00-0014-00-PV	DUPAGE	563	272
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 63024



ITEM	DESCRIPTION		QTY	NOTE
	TOTAL MANHOLE WEIGHT	4500 P.S.I. CONC.	27,405 LBS.	
⑦	TOP SECTION WEIGHT		14,100 LBS.	1
	BASE SECTION WEIGHT		13,305 LBS.	
⑦	REBAR: GR. 60, EPOXY COATED			2
⑱	6" DUCT TERMINATORS		24	
⑯	1"ø BUTYL RUBBER JOINT SEALANT		4 ROLLS	
⑮	SUMP GRATE & 12"x12"x1/8" P		1	4
④	5" LIFTING ANCHORS		12	
③	1"ø S/S PULLING IRONS		2	
○	1/2"ø x 3" DEEP, S/S INSERTS WITH 1/2"ø x 3" S/S HEX HEAD BOLT AND WASHER.		16	



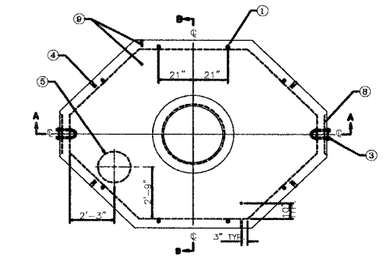


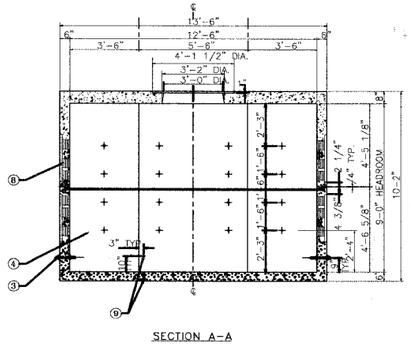
NOTES:

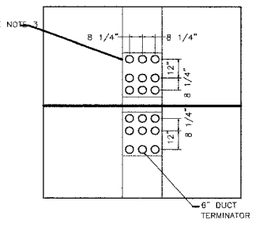
1. CONCRETE: 4500 psi @ 28 DAYS, 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.
2. REBAR: ASTM A-615 GRD. 60 EPOXY COATED
3. PULLING IRON: ø" STAINLESS STEEL
4. ADD GROUNDROD KNOCKOUTS IN FLOOR AND WALLS.
5. RACKING INSERTS: STAINLESS STEEL.
6. IDENTIFICATION: IMPRESSED INTO CEILING OF VAULT.
7. DESIGN CRITERIA:
   A.) DESIGNED AND BUILT IN ACCORDANCE WITH ASTM C858 "STANDARD SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES".
   B.) ALL LOADING AS PER ASTM C857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" INCLUDING:
   - EARTH COVER: MIN. 2.0', MAX. 5.0'.
   - AASHTO HS-20 WHEEL LOAD AND APPLICABLE IMPACT.
   - VERTICAL AND LATERAL SOIL PRESSURES DETERMINED USING A SOIL DENSITY OF 120 PCF.
   - GROUNDWATER AT 3'-0" BELOW GRADE.
   C.) STRUCTURAL DESIGN PERFORMED USING AASHTO STRENGTH DESIGN METHOD.
   D.) REINFORCING COVER REQUIREMENTS AS PER ACI 318.
8. CONTRACTOR SHALL CONFIRM DUCT LOCATION WITH INSPECTOR.
9. SEE SPECIFICATION C30-1900 FOR ROW IDENTIFICATION WITH CONDUIT.

ADDING THE MANHOLE CENTER ASSEMBLY CONVERTS TYPE "A" MANHOLE TO TYPE "C" MANHOLE.

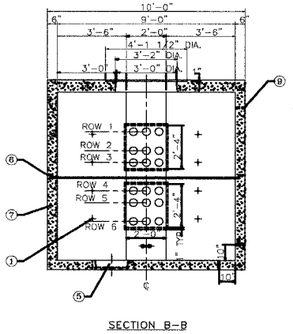
NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	TYPE A MANHOLE	DATE: 12-18-04 M30-1140







6" DUCT TERMINATOR
ENDWALL SHOWN

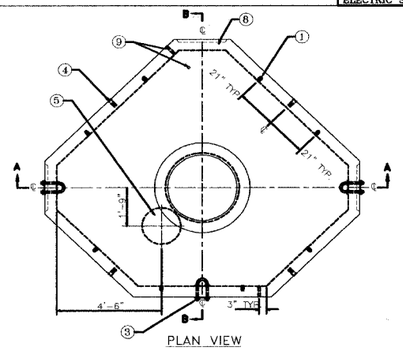


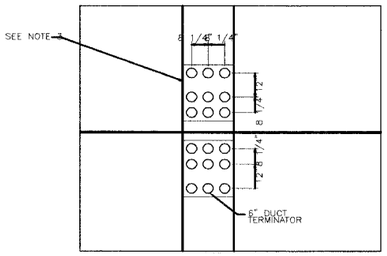
ITEM	DESCRIPTION		QTY	NOTE
	TOTAL MANHOLE WEIGHT	4500 P.S.I. CONC.	43,000 LBS.	
⑦	TOP SECTION WEIGHT		22,000 LBS.	1
	BASE SECTION WEIGHT		21,000 LBS.	
⑦	REBAR, EPOXY COATED			2
⑲	1"ø x 5 1/2" GROUND WIRE HOLE, 1/2" KNOCKOUT		4	
⑱	6" DUCT TERMINATORS		36	3
⑯	1"ø BUTYL RUBBER JOINT SEALANT		4 ROLLS	
⑭	IBT SUMP DEPRESSION		1	
④	6" LIFTING ANCHORS		8	
③	1"ø S.S. PULLING IRONS		2	4
○	CABLE RACK INSERTS: 1/2" 304 STAINLESS STEEL THREADED INSERTS EACH WITH 1/2" x 2" 304 S.S. HEX HEAD BOLT, 1/2" S.S. WASHER, AND 1/2" PVC WASHER		32	

NOTES:

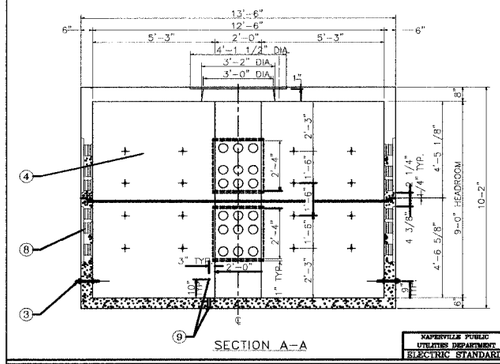
1. CONCRETE: 4500 psi @ 28 DAYS, 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.
2. REBAR: ASTM A-615 GRD. 60, EPOXY COATED.
3. DUCT ENTRANCE: SINGLE DUCT TERMINATORS TO ACCEPT 6" DIAMETER SCH. 40 PVC CONDUIT. SEE DETAIL THIS SHEET.
4. PLEASE NOTE PULLING IRON DESIGNED AS PER A.C.I. 318 FOR WORKING LOAD CAPACITY OF 28,000 POUNDS APPLIED COINCIDENT TO THE MAJOR AXIS OF THE PULLING IRON.
5. IDENTIFICATION: IMPRESSED INTO CEILING OF VAULT.
6. DESIGN CRITERIA:
   A.) DESIGNED AND BUILT IN ACCORDANCE WITH ASTM C858 "STANDARD SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES".
   B.) ALL LOADING AS PER ASTM C857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" INCLUDING:
   - EARTH COVER: MIN. 2.0', MAX. 5.0'.
   - AASHTO HS-20 WHEEL LOAD AND APPLICABLE IMPACT.
   - VERTICAL AND LATERAL SOIL PRESSURES DETERMINED USING A SOIL DENSITY OF 120 PCF.
   - GROUNDWATER AT 3'-0" BELOW GRADE.
   C.) STRUCTURAL DESIGN PERFORMED USING AASHTO STRENGTH DESIGN METHOD.
   D.) REINFORCING COVER REQUIREMENTS AS PER ACI 318.
7. SEE SPECIFICATION C30-1900 FOR ROW IDENTIFICATION WITH CONDUIT.

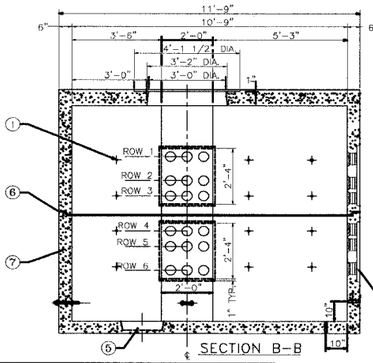
NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	TYPE E MANHOLE	DATE: 12-24-04 M30-1160





6" DUCT TERMINATOR
ENDWALL SHOWN





ITEM	DESCRIPTION		QTY	NOTE
	TOTAL MANHOLE WEIGHT	4500 P.S.I. CONC.	46,000 LBS.	
⑦	TOP SECTION WEIGHT		24,000 LBS.	1
	BASE SECTION WEIGHT		22,000 LBS.	
⑦	REBAR, EPOXY COATED			2
⑲	1"ø x 5 1/2" GROUND WIRE HOLE, 1/2" KNOCKOUT		4	
⑱	6" DUCT TERMINATORS		54	3
⑯	1"ø BUTYL RUBBER JOINT SEALANT		4 ROLLS	
⑭	IBT SUMP DEPRESSION		1	
④	6" LIFTING ANCHORS		8	
③	1"ø S.S. PULLING IRONS		3	4
○	CABLE RACK INSERTS: 1/2" 304 STAINLESS STEEL THREADED INSERTS EACH WITH 1/2" x 2" 304 S.S. HEX HEAD BOLT, 1/2" S.S. WASHER, AND 1/2" PVC WASHER		32	

NOTES:

1. CONCRETE: 4500 psi @ 28 DAYS, 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.
2. REBAR: ASTM A-615 GRD. 60, EPOXY COATED.
3. DUCT ENTRANCE: SINGLE DUCT TERMINATORS TO ACCEPT 6" DIAMETER SCH. 40 PVC CONDUIT. SEE DETAIL THIS SHEET.
4. PLEASE NOTE PULLING IRON DESIGNED AS PER A.C.I. 318 FOR WORKING LOAD CAPACITY OF 28,000 POUNDS APPLIED COINCIDENT TO THE MAJOR AXIS OF THE PULLING IRON.
5. IDENTIFICATION: IMPRESSED INTO CEILING OF VAULT.
6. DESIGN CRITERIA:
   A.) DESIGNED AND BUILT IN ACCORDANCE WITH ASTM C858 "STANDARD SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES".
   B.) ALL LOADING AS PER ASTM C857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" INCLUDING:
   - EARTH COVER: MIN. 2.0', MAX. 5.0'.
   - AASHTO HS-20 WHEEL LOAD AND APPLICABLE IMPACT.
   - VERTICAL AND LATERAL SOIL PRESSURES DETERMINED USING A SOIL DENSITY OF 120 PCF.
   - GROUNDWATER AT 3'-0" BELOW GRADE.
   C.) STRUCTURAL DESIGN PERFORMED USING AASHTO STRENGTH DESIGN METHOD.
   D.) REINFORCING COVER REQUIREMENTS AS PER ACI 318.
7. SEE SPECIFICATION C30-1900 FOR ROW IDENTIFICATION WITH CONDUIT.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	TYPE G MANHOLE	DATE: 12-24-04 M30-1170

NOTE:

1) EXISTING MANHOLES USUALLY SINGLE OPENING MANHOLES

WF# INFORMATION		CITY OF NAPERVILLE/DEPARTMENT OF PUBLIC UTILITIES – ELECTRIC		
WF# 59481 WASHINGTON ST. 75TH TO OLYMPUS DR. EAST SIDE	JOB 1 EU-73	CALL J.U.L.I.E. 48 HRS. PRIOR TO CONSTRUCTION		
WF# 59482 75TH WASHINGTON ST. TO OLYMPUS DR. NORTH SIDE	JOB 2 EU-73	PROJECT TITLE: 75TH ST. AND WASHINGTON ST. ROAD IMPROVEMENTS	MAP NO.: –	CAD FILE: 0056270001D31.DWG
WF# 59484 75TH WASHINGTON ST. TO CLYDE DR. SOUTH SIDE	JOB 3 EU-73	PROJECT DESCRIPTION: TRENCH SECTION DETAILS	DRAWN BY: JK, PM	PROJECT NO.: EU12-06-03 EU73
WF# 59485 WASHINGTON ST. 75TH TO BAILEY RD. EAST SIDE	JOB 4 EU-73	DATE: 4-01-08 / ISSUED / ENGINEER: RPS / REVISION: 1 2 3	CHKD:	SBC:
		WORK REQUEST NO.: 56270	APPV:	COMPLETED BY:
			SCALE: NTS	SHEET 31 OF 73