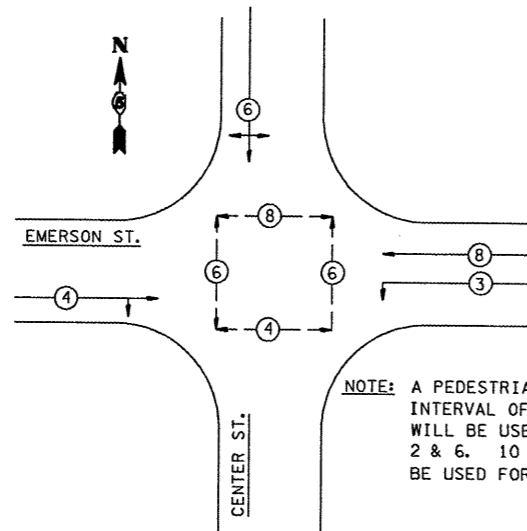


PHASE DESIGNATION DIAGRAM



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 19 SECONDS WILL BE USED FOR PHASE 2 & 6. 10 SECONDS SHALL BE USED FOR PHASE 4.

PC CONC SIDEWALK 5"

SW QUAD	10	SQ FT
SE QUAD	28	SQ FT
NE QUAD	40	SQ FT
TOTAL =	78	SQ FT

SIDEWALK REMOVAL

SW QUAD	10	SQ FT
SE QUAD	35	SQ FT
NE QUAD	52	SQ FT
TOTAL =	97	SQ FT

HANDHOLE

STA. 220+35.13; 127.09' RT.	1	EACH
STA. 220+28.57; 43.79' RT.	1	EACH
STA. 219+59.94; 28.45' RT.	1	EACH
STA. 220+33.19; 23.97' LT.	1	EACH
STA. 70+30.70; 83.88' LT.	1	EACH
TOTAL =	5	EACH

CONC FDN TY A

STA. 220+29.10; 34.35' RT.	3.1'	FOOT
STA. 219+43.42; 35.69' LT.	3.1'	FOOT
TOTAL =	6.2	FOOT

CONC FDN TY E 36D

STA. 219+55.89; 25.15' RT.	10.0'	FOOT
STA. 220+30.29; 29.95' LT.	15.0'	FOOT
TOTAL =	25.0	FOOT

REMOVE EXIST HANDHOLE

STA. 219+54.4; 21.2' RT.	1	EACH
STA. 220+32.4; 37.8' RT.	1	EACH
STA. 220+14.9; 24.5' LT.	1	EACH
STA. 219+51.6; 42.1' LT.	1	EACH
STA. 219+50.1; 186.0' LT.	1	EACH
TOTAL =	5	EACH

REMOVE EXIST CONC FDN

STA. 220+32.7; 33.7' RT.	1	EACH
STA. 219+59.2; 21.0' RT.	1	EACH
STA. 220+16.8; 20.0' LT.	1	EACH
STA. 219+51.3; 39.1' LT.	1	EACH
TOTAL =	4	EACH

BILL OF MATERIALS

U. S. 51 BUS. (CENTER ST.) & EMERSON ST.

ITEM	UNIT	QUANTITY
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
PAINT NEW MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 1-UNDER 40 FT, 1-OVER 40 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 40 FT.	EACH	1
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	111
SIDEWALK REMOVAL	SQ FT	97
SERVICE INSTALLATION, TYPE A	EACH	1
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	30
CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	235
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	83
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	10
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	19
CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	3
CONDUIT, AUGERED 3" DIA., PVC	FOOT	200
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	380
ELECTRIC CABLE IN CONDUIT, SIGNALNO. 14 2C	FOOT	620
ELECTRIC CABLE IN CONDUIT, SIGNALNO. 14 3C	FOOT	125
ELECTRIC CABLE IN CONDUIT, SIGNALNO. 14 5C	FOOT	453
ELECTRIC CABLE IN CONDUIT, SIGNALNO. 14 7C	FOOT	811
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	892
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 6 PAIR	FOOT	247
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6.2
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	25
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	221
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
RELOCATE CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	390
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	1

GENERAL NOTES

- THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD. (A1, A2), (C1, C2), (D1, D2)
- THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
- ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB
- ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
- THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
- PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
- THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

FILE NAME =	USER NAME = biggsrd	DESIGNED - RDB	REVISED -
os\projects\4578738\emerson_street.dgn		DRAWN - RDB	REVISED -
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/21/2008		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REVIS 10/23/08

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(8CS)TS;(622)TS;(622-2)TS	MCLEAN	14	7
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 70730	