CONTRACT NO. 66420

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	(1-1)R	KENDALL	514	393
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS ROUTE 71 AT OSWEGO H.S. ENTRANCE ELECTRICAL LOAD CHART

ILLINOIS ROUTE 71

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	12	10	30
YELLOW	12	22	5
GREEN	12	12	65
YELLOW ARROW	6	10	5
GREEN ARROW	6	5	10
PED. SIGNAL	4	25	100

OSWWEGO H.S. ENT.

RED	6	10	60
YELLOW	6	22	5
GREEN	6	12	35
YELLOW ARROW	4	10	5
GREEN ARROW	4	5	10
PED. SIGNAL	4	25	100

TRAFFIC SIGNAL CABINET

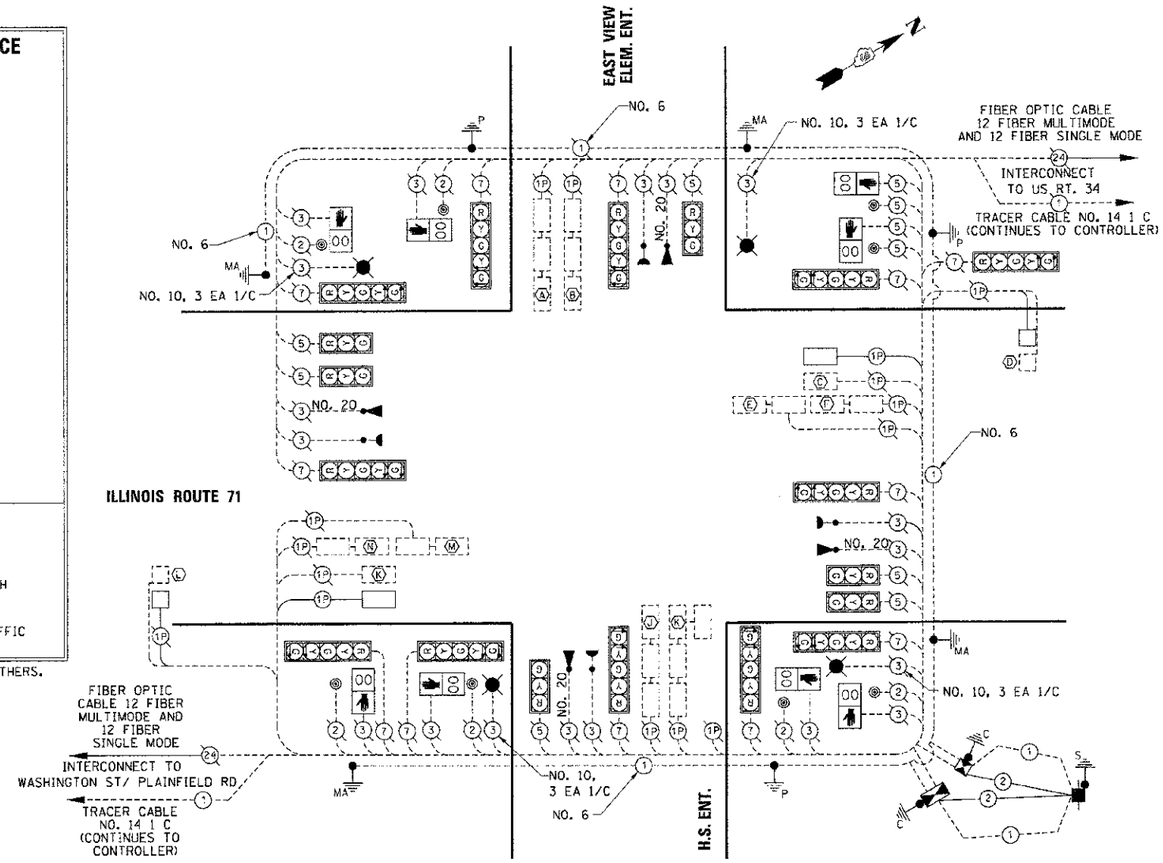
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LOOP DETECTORS	13	4	100
UPS	1	50	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	250	360 HRS/MONTH

AGENCY RESPONSIBLE FOR ENERGY CHARGES: VILLAGE OF OSWEGO
(NOTE: SEPERATE ENERGY BILLS FOR HIGHWAY LIGHTING AND TRAFFIC SIGNALS SHALL BE SUBMITTED TO THE VILLAGE OF OSWEGO)

NOTE: TABLE ABOVE INCLUDES EXISTING SIGNALS INSTALLED BY OTHERS.



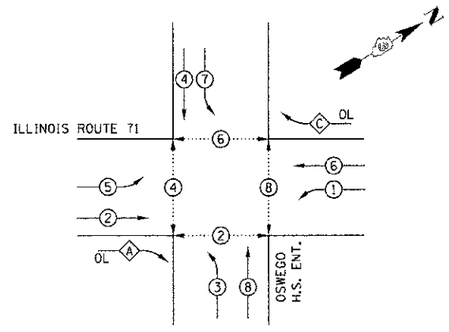
SCHEDULE OF QUANTITIES

UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	58
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	2342
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	1,522

CABLE DIAGRAM LEGEND

EXISTING	PROPOSED	
		TRAFFIC SIGNAL CONTROLLER CABINET *ECONOLITE*
		LIGHTING CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		LIGHT DETECTOR
		CONFIRMATION BEACON
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		LIGHTING UNIT
R	R	12" TRAFFIC SIGNAL SECTION
R Y G Y G "P"	R Y G Y G "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
	00	12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		PUSHBUTTON DETECTOR TYPE 4EVR
H/C	H/C	GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P/MA	P/MA	GROUND ROD AT POST (P) OR MAST ARM (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CONTROLLER SEQUENCE



LEGEND

- VEHICULAR PHASE
- RIGHT-TURN OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERRING TO ASSOCIATED PHASE

OVERLAP PHASE		PROTECTED PHASE
A	=	3
C	=	7

PHASE DESIGNATION DIAGRAM

ILLINOIS ROUTE 71 AT OSWEGO H.S. ENT. DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	SB STBR	4	689	23.252	ON
B	7	SB LT	4	689	23.252	ON
C	6	WB STBR	4	560	25.791	OFF
D	6	WB FAR	6	612	24.671	ON
E	1	WB LT FR	4	556	25.884	ON
F	1	WB LT BK	4	564	25.699	ON
G	8	NB STBR FR	4	640	24.125	ON
H	8	NB STBR BK	4	745	22.361	ON
J	3	NB LT	4	795	21.646	ON
K	2	EB STBR	4	551	26.001	OFF
L	2	EB FAR	6	601	24.896	ON
M	5	EB LT FR	4	551	26.001	ON
N	5	EB LT BK	4	557	25.860	ON

NOTES:

1. A SELF ADHERING PHASING DIAGRAM SHALL BE PLACED INSIDE THE CABINET DOOR.
2. FIBER OPTIC CABLE NEEDS DIRECTION AND ASSIGNMENT NUMBER ON EACH FIBER CABLE.
3. LIGHTING CABLES SHALL BE RUN IN CONDUIT THAT IS SEPARATE FROM THE TRAFFIC SIGNAL CONDUIT.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
IL RTE 71
OSWEGO H.S. ENTRANCE

SCALE: N.T.S. DRAWN BY NMR
DATE: 7/9/2012 CHECKED BY DJL

PLOT DATE = 7/9/2012
FILE NAME = pt:\civil_idot.dist3\oswego\phase i\hd1816_IL71_OHS_TF02.dgn
PLOT SCALE = 20.0000 / IN.