

LUMINAIRE SUPPORT					LOCATION				FOUNDATION			LUMINAIRE				STRUCTURAL DESIGN DATA							
POLE ID NO.	SPC. NO.	CKT. NO.	POLE NO.	ITEM NO.	ROUTE/ ALIGNMENT	STATION	OFFSET (FT - LT/RT)	LATITUDE (DD:MM:SS.SS)	LONGITUDE (DD:MM:SS.SS)	MT. TYPE	TOP ELEV. (FT)	LENGTH (FT)	MT. HEIGHT (FT)	ITEM NO.	QUANTITY	AMP @ 480V	RISK CATEGORY	MRI	BASIC WIND SPEED (MPH)	EXPOSURE CATEGORY	Z (FT)	DRAG COEFF.	MAX WIND PRESS. (PSF)
4.1.1	4	1	1	342	I-210 CL	66+37.49	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.2	4	1	2	342	I-210 CL	68+21.29	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.3	4	1	3	342	I-210 CL	70+04.08	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.4	4	1	4	342	I-210 CL	72+21.96	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.5	4	1	5	342	I-210 CL	74+34.44	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.6	4	1	6	342	I-210 CL	76+39.97	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.7	4	1	7	342	I-210 CL	78+42.66	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.8	4	1	8	342	I-210 CL	80+49.00	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.9	4	1	9	342	I-210 CL	82+59.25	N/A	N/A	N/A	G	15.00	9.50	40	310	2	1.22	HIGH	1,700	150	D	40.00	1.2	101
4.1.10	4	1	10	315	I-210 CL	85+00.00	61.91 - RT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.1.11	4	1	11	315	I-210 CL	87+60.88	55.5 - RT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.1.12	4	1	12	315	I-210 CL	90+51.14	48.75 - RT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.1.13	4	1	13	315	I-210 CL	85+08.23	63.5 - LT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.1.14	4	1	14	315	I-210 CL	87+62.21	55.5 - LT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.1.15	4	1	15	315	I-210 CL	90+50.77	48.75 - LT	N/A	N/A	G	15.00	9.50	40	310	1	0.61	HIGH	1,700	150	D	40.00	1.2	101
4.2.16	4	2	16	322	I-210 CL	93+24.71	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.15	4	2	15	322	I-210 CL	96+00.46	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.14	4	2	14	322	I-210 CL	98+72.67	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.13	4	2	13	322	I-210 CL	101+47.68	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.12	4	2	12	322	I-210 CL	104+20.19	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.11	4	2	11	322	I-210 CL	106+91.70	N/A	N/A	N/A	S	18.33	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.22	1.2	105
4.2.10	4	2	10	322	I-210 CL	109+69.11	N/A	N/A	N/A	S	18.56	N/A	50	311	2	1.22	HIGH	1,700	150	D	68.45	1.2	105
4.2.9	4	2	9	322	I-210 CL	112+40.40	N/A	N/A	N/A	S	33.36	N/A	50	311	2	1.22	HIGH	1,700	150	D	83.27	1.2	109
4.2.8	4	2	8	322	I-210 CL	115+19.10	N/A	N/A	N/A	S	47.29	N/A	50	311	2	1.22	HIGH	1,700	150	D	97.18	1.2	112
4.2.7	4	2	7	322	I-210 CL	118+02.26	N/A	N/A	N/A	S	61.45	N/A	50	311	2	1.22	HIGH	1,700	150	D	111.34	1.2	114
4.2.6	4	2	6	322	I-210 CL	120+78.44	N/A	N/A	N/A	S	72.26	N/A	50	311	2	1.22	HIGH	1,700	150	D	122.15	1.2	116

DEFINITIONS:

- POLE ID NO. - SECONDARY POWER CONTROLLER NUMBER; CIRCUIT NUMBER; POLE NUMBER
- SPC. NO. - SECONDARY POWER CONTROLLER NUMBER
- CKT. NO. - CIRCUIT NUMBER
- POLE NO. - POLE NUMBER
- ITEM NO. - ELECTRICAL EQUIPMENT ITEM NUMBER
- OFFSET - LT=LEFT, RT=RIGHT
- MT. TYPE - MOUNTING TYPE - B=BARRIER, G=GROUND, S=STRUCTURAL
- TOP ELEV. - TOP OF FOUNDATION ELEVATION
- LENGTH - DRILLED SHAFT LENGTH (IF APPLICABLE)
- MT. HEIGHT- LUMINAIRE MOUNTING HEIGHT ABOVE THE ROADWAY/BRIDGE SURFACE
- MRI - MEAN RECURRENCE INTERVAL
- Z - VERTICAL DISTANCE MEASURED FROM THE TOP OF THE POLE TO THE NATURAL GROUND/MEAN WATER SURFACE
- MAX WIND PRESSURE - CALCULATED WIND PRESSURE AT THE TOP OF THE POLE

Sample Completed Luminaire Schedule

Usage Instructions for Luminaire Schedule:

General Instructions

- This schedule shall be used for all luminaire installations (high-mast and low-mast).
- “Design-Regular.ttf” Font must be installed on your computer in order for the font to render properly. Text shall be ALL CAPS.
- Do not modify the text size or formatting.
- Copy Excel Template into the project folder under H.#####>Bridge-Facilities>Electrical>Plans>Spreadsheets.
- Enter data into Excel table. Add/delete lines within the table as needed.
- Select and copy table.
- In Microstation, create a new sheet, reference sheet border (Scale 1:1), select Edit>Paste. Paste as: Picture, Method: By Size, Scale: 17.

Luminaire Support Information

1. Pole Identification Number (POLE ID NO.)
 - a. Unique identifier consisting of the secondary power controller number, circuit number, and pole number separated by decimals.
 - b. Format = ##.##.##
2. Secondary Power Controller (SPC. NO.)
 - a. Enter secondary power controller number powering the circuit.
 - b. Format = ##
3. Circuit Number (CKT. NO.)
 - a. Enter circuit number powering the luminaire.
 - b. Format = ##
4. Pole Number (POLE NO.)
 - a. Poles shall be sequentially numbered for each circuit beginning with 1 at the furthest pole from the power source.
 - b. Format = ##
5. Item Number (ITEM NO.)
 - a. Enter light pole electrical equipment item number
 - b. Format = ####

Location Information

6. Route/Alignment
 - a. Enter route using the following naming convention
 - i. Route
 1. Interstate Routes = I-### (Ex: I-10, I-110, etc.)
 2. United States Highways = US ### (Ex: US 90, US 190, etc.)
 3. Louisiana Highways = LA ##### (Ex: LA 73, LA 3246, etc.)
 4. Ramps = RAMP ## or RAMP LETTER (Ex: RAMP 1 or RAMP A)
 - ii. Direction (if applicable)
 1. EB – Eastbound
 2. WB – Westbound

- iii. Alignment
 - 1. CL – Centerline
 - 2. BL – Baseline
 - b. Format = “Route” “Direction” “Alignment” (Ex: I-10 WB BL, US 90 CL, RAMP A CL, etc.)
- 7. Station
 - a. Enter station number along route/alignment.
 - b. Format = ###+##.##
- 8. Offset
 - a. Enter offset from alignment in feet. If pole is located on the route/alignment, enter N/A.
 - b. Enter offset direction from alignment.
 - i. LT – Left
 - ii. RT – Right
 - c. Format = ## - “Offset Direction” or N/A (Ex: 20 – RT, etc.)
- 9. Latitude
 - a. Required for projects submitted to the Federal Aviation Administration (FAA). Otherwise, enter N/A.
 - b. Enter into degrees : minutes : seconds format.
 - c. All values will be in northern hemisphere. Designate with N.
 - d. Format = ##:##:##.## N or N/A
- 10. Longitude
 - a. Required for projects submitted to the Federal Aviation Administration (FAA). Otherwise, enter N/A.
 - b. Enter into degrees : minutes : seconds format.
 - c. All values will be in western hemisphere. Designate with W.
 - d. Format = ##:##:##.## W or N/A

Foundation Information

- 11. Mount Type (MT. TYPE)
 - a. Enter mount type
 - i. B – Barrier Mounted
 - ii. G – Ground Mounted
 - iii. S – Structural Mounted
 - b. Format = Single Letter
- 12. Top Elevation (TOP ELEV.)
 - a. Top of foundation elevation in feet
 - b. Format = ##.##
- 13. Length
 - a. Enter drilled shaft length in feet
 - b. Enter N/A for barrier or structure mounted applications
 - c. Format = ##.##

Luminaire Information

14. Mount Height (MT. HEIGHT)
 - a. Enter luminaire mounting height above roadway in feet
 - b. Format = ###
15. Item Number (ITEM NO.)
 - a. Enter luminaire electrical equipment item number
 - b. Format = ###
16. Quantity
 - a. Enter luminaire quantity
 - b. Format = ##
17. Amperes at 480 Volts (AMP @ 480V)
 - a. Enter amperes at 480 volts
 - b. Format = #.##

Structural Design Data

18. Risk Category
 - a. Enter risk category
 - i. TYPICAL
 - ii. HIGH
 - iii. LOW
 - b. Format = Text
19. Mean Recurrence Interval (MRI)
 - a. Enter mean recurrence interval
 - i. 1,700
 - ii. 700
 - iii. 300
 - b. Format = #,###
20. Basic Wind Speed
 - a. Enter basic wind speed in miles per hour
 - b. Format = ###
21. Exposure Category
 - a. Enter exposure category
 - i. B
 - ii. C
 - iii. D
 - b. Format = Single Letter
22. Z
 - a. Vertical distance measured from the top of the pole to the natural ground/mean water surface in feet.
 - b. Format = ###.##
23. Drag Coefficient (DRAG COEFF.)
 - a. Enter assumed drag coefficient
 - b. Format = #.#
24. Maximum Wind Pressure (MAX WIND PRESS.)

- a. Enter the calculated wind pressure at the top of the pole in pounds per square foot
- b. Format = ###