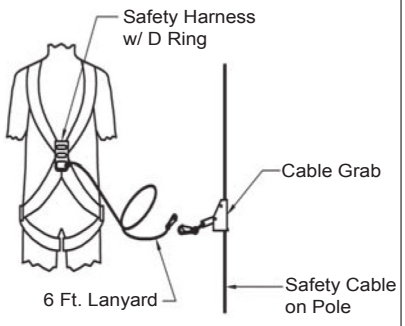
LL-DE
Direct Embed - Made in USA

MADE IN USA

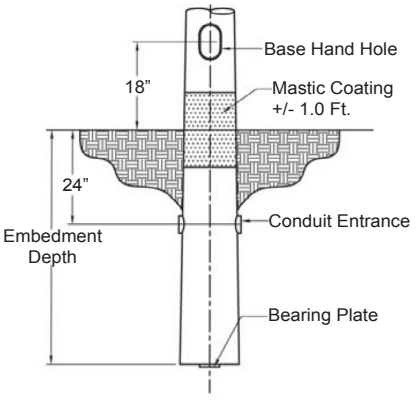
Features

Design:	The selection of the correct pole design is predicated on the specific loading requirements of each application. The poles located in the steel pole chart are designed to withstand dead loads and theoretical dynamic loads developed by sustained winds of 80 MPH through 110 MPH times the 1.3 gust factor. The combined EPA and the weight of the luminaire, light support brackets, platforms and any other attachments cannot exceed the rated EPA or allowable weight of that pole.
Welding:	All welds shall be of the highest quality and performed by American Welding Society certified welders conforming to the latest version of the American Welding Society specification AWS D1.1.
Finish:	All poles, mounting brackets and platforms are furnished with a coating of either red oxide/zinc primer, factory painted, powder coated or hot-dip galvanized to ASTM A-123. Miscellaneous hardware will be galvanized to ASTM A-153. Exterior finish coatings are available by request.
Pole Shaft:	The steel pole shall consist of the appropriate number of pole sections, either round or multi-sided, for heights up to 120 feet. Each section shall be fabricated from high strength low alloy steel conforming to ASTM A-572, with a minimum yield strength of 55,000 psi. These shafts shall telescope over each other to match the overall desired pole height. The overlap telescoping joint shall have a length that is the larger of 2 feet or 1-1/2 times the diameter of the inside of the female tube. The sections shall be pre-fitted and match marked at the factory. All sections shall maintain a uniform taper from top to bottom. There shall be at least one longitudinal seam weld in the tapered section of the shaft. The longitudinal seam weld shall have at least 60% penetration, except in the areas where the shaft section telescopes over another. In overlapping areas, the weld penetration shall be 100%. No circumferential weld splices may be used in fabricating the shafts.
Hand Hole:	An oval reinforced hand hole, having a nominal 4" x 6" x .25" wall, will be installed 18" above the groundline. A hand hole cover and attaching hardware is included with each hand hole assembly. A ground lug will be welded inside the pole opposite the hand hole. This is standard on all poles unless otherwise specified.
Embedment:	The embedded portion of the pole which will be 10% of the free pole height + 2 feet, will include two 3" x 5" reinforced hand holes at 180 degrees apart, 24" below ground level for wire access. A 1/4" thick bearing plate will be integrally welded to the base of the shaft to aid in anti-rotation. As an option, a mastic coating may be applied at the ground level of the outer pole shaft +/- one foot to serve as added protection against the elements.
Pole Tops:	Each pole will be provided with either a removable pole cap, fl at plate, or 2 3/8" O.D. x 5" tenon top (other sizes available).

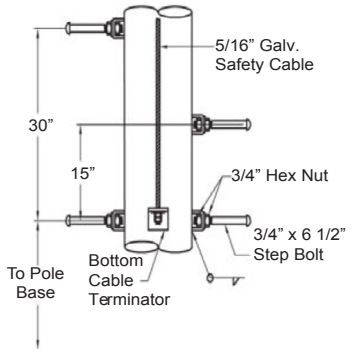
Safety Harness

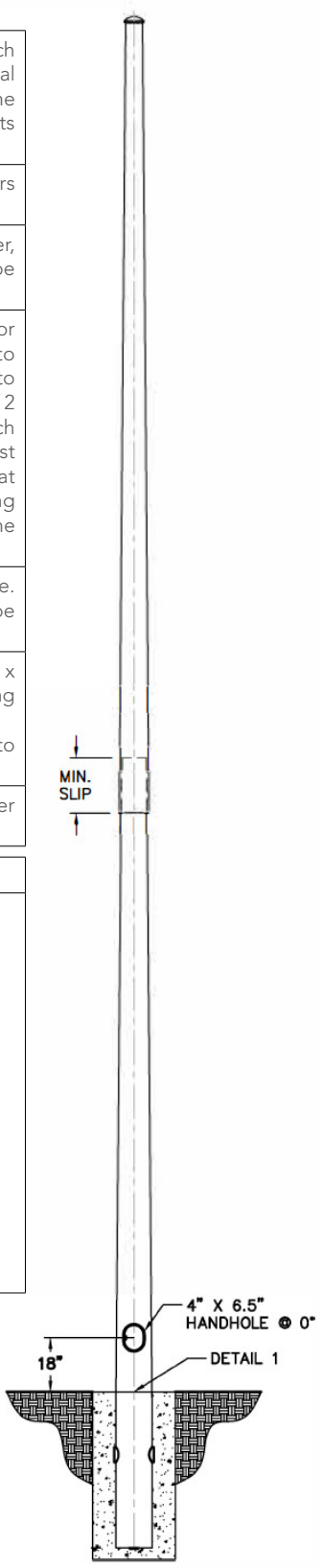


Base Detail:



Removable Pole Step:





Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

Ordering Information

Catalog Number	Mounting Height (ft)	Pole Weight (lbs)	Embedment Depth (ft)	Max Loading Capacities								Base Reaction		
				80 (mph)		90 (mph)		100 (mph)		110 (mph)		Axial (lbs)	Shear (lbs)	Moment (lbs)
				EPA (ft^2)	Wt (lbs)	EPA (ft^2)	Wt (lbs)	EPA (ft^2)	Wt (lbs)	EPA (ft^2)	Wt (lbs)			
LL-RTS-501-DE	50	841	7.0	25	625	20	500	17	425	14	350	1300	1800	66900
LL-RTS-502-DE	50	1039	7.0	42	1050	33	825	26	650	21	525	1900	2200	87100
LL-RTS-503-DE	50	1255	7.0	52	1300	42	1050	33	827	27	675	2300	2600	104900
LL-RTS-504-DE	50	1317	7.0	75	1875	59	1475	47	1175	39	975	2900	3500	147000
LL-RTS-601-DE	60	1135	8.0	25	625	20	500	16	400	13	325	1700	1900	81400
LL-RTS-602-DE	60	1456	8.0	47	1175	37	925	30	750	24	600	2500	2700	125600
LL-RTS-603-DE	60	1594	8.0	60	1500	48	1200	39	975	31	775	3000	3300	159600
LL-RTS-604-DE	60	1767	8.0	83	2075	64	1600	50	1250	39	975	3500	4100	196600
LL-RTS-701-DE	70	1722	9.0	39	975	31	775	24	600	20	500	2600	2700	140000
LL-RTS-702-DE	70	1922	9.0	53	1325	42	1050	34	850	28	700	3100	3400	183200
LL-RTS-703-DE	70	2043	9.0	65	1625	52	1300	41	1025	32	800	3500	3800	209700
LL-RTS-704-DE	70	2210	9.0	78	1950	60	1050	46	1150	36	900	3700	4500	238600
LL-RTS-801-DE	80	2043	10.0	34	850	27	675	23	575	17	425	2700	3000	163900
LL-RTS-802-DE	80	2180	10.0	41	1025	33	825	27	675	21	525	3000	3300	191000
LL-RTS-803-DE	80	2369	10.0	53	1325	41	1025	33	825	26	650	3400	3800	224700
LL-RTS-804-DE	80	3288	10.0	83	2075	66	1650	53	1325	44	1100	4900	5000	321100
LL-RTS-901-DE	90	2337	11.0	30	750	21	525	18	450	13	325	2800	3000	173600
LL-RTS-902-DE	90	2542	11.0	37	925	27	675	22	550	16	400	3200	3400	207900
LL-RTS-903-DE	90	3442	11.0	59	1475	46	1150	37	925	29	725	4500	4400	289000
LL-RTS-904-DE	90	3394	11.0	76	1900	58	1450	44	1100	32	800	4600	5500	349400
LL-RTS-101-DE	100	3314	12.0	50	1250	39	975	29	725	21	525	3900	5900	312000
LL-RTS-102-DE	100	3641	12.0	60	1500	44	1100	33	825	24	600	4400	5300	346300
LL-RTS-103-DE	100	4063	12.0	71	1775	53	1325	39	975	28	700	4900	5900	390300
LL-RTS-104-DE	100	4784	12.0	85	2125	66	1650	51	1275	40	1000	5900	6800	482500