

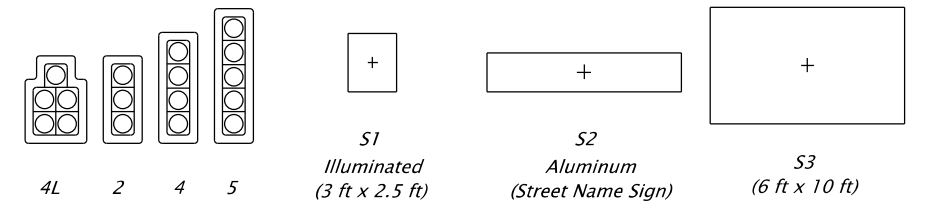
Signal Pole Type	Signal Arm Length	STANDARD SIGNAL ARM LOADS						DEFLECTIONS	
		Signals			Sign			DS Max. * for S2	Estimated "defl" End of Arm
		4L Qty.	2 Qty.	5 * Qty.	S1 Qty.	S2 * Qty.	Horz. Blank		
SM6L	60', 65'	1	2	1	4	1	58'-0"	21'-1"	2'-9"
SM7L	70', 75'	1	2	1	4	1	68'-0"	21'-1"	3'-9"

* - Load location is the closest sign or signal of that type to the vertical post.

1. Camera mounted on 6 ft arm placed at any location on signal arm.
2. Fire Pre-Emption may be placed at any location along the mast arm.
3. Modifications to the loading shown require analysis to verify the structural adequacy of the pole.
4. Physical fit of the loading must be verified.
5. 60' and 70' mast arm lengths use the same design as the longer 65' and 75' lengths with the end 5' removed.

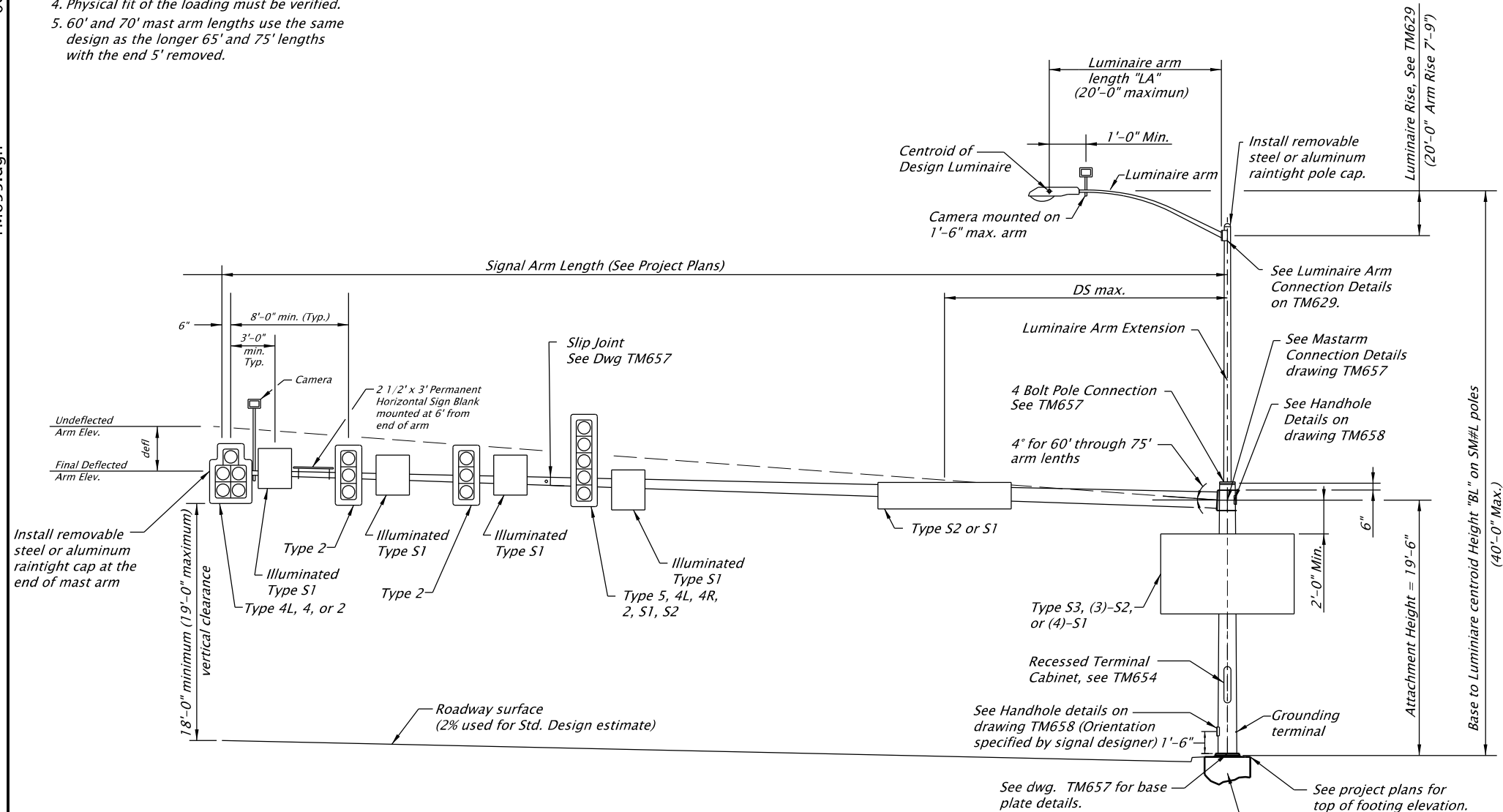
VERTICAL POST LOADS								
Description	Maximum Centerline Elevation	Height (Each)	Width (Each)	Depth (Each)	Area Front (sq. ft)	Area Side (sq. ft)	Area Bottom (sq. ft)	Weight 0" Ice (lbs)
2-Ped. Push Buttons	3'-6"	7 ³ / ₈ "	5"	3 ³ / ₈ "	0.27	0.18	0.12	3.0
Controller Cabinet	5'-9"	46"	24"	22"	7.67	7.03	3.67	300
2-Pedestrian Signals	8'-3 ¹ / ₂ "	18 ³ / ₄ "	19"	19"	2.47	2.47	2.51	25.0
Terminal Cabinet	10'-9"	18 ¹ / ₈ "	6 ³ / ₄ "	8 ³ / ₈ "	0.85	1.05	0.39	25.0
Guide Sign (S3)	15'-0"	72"	120"	8 ³ / ₈ "	60.0	1.00	1.67	395
Photoelectric Cell	38'-4"	2 ¹ / ₄ "	3 ¹ / ₄ "	3 ¹ / ₄ "	0.05	0.05	0.07	5.0

1. Physical fit of the loading must be verified.



SIGNAL POLE APPURTENANCE TYPES

APPURTENANCE LOADS				
Type	Area Front (sq. ft)	Area Side (sq. ft)	Area Bottom (sq. ft)	Weight 0" Ice (lbs)
4L	12.4	6.61	3.64	145
2	8.67	6.61	1.95	85.0
4	11.0	8.49	1.95	97.0
5	13.3	10.36	1.95	142
S1	7.50	2.38	1.72	71.0
S2	21.0	0.00	1.67	105
Horz. Blank	1.72	2.38	7.50	45.0
Signal Camera	1.64	2.55	0	60
Lum. Camera	0.65	1.42	0	25



TYPICAL POLE ELEVATION

No Scale

Accompanied by dwgs. TM654, TM656, TM657, TM658, TM628

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
TRAFFIC SIGNAL 60' THROUGH 75'			
MAST ARM SUPPORTS			
GENERAL DETAILS & DESIGN CRITERIA			
2021			
DATE	REVISION	DESCRIPTION	
07-2020		REPLACED HUB WITH RECESSED TERMINAL CABINET, ADDED ACCOMPANIED BY DRAWING TM654, AND CHANGED SIGN 7' DISTANCE TO 6'	
07-2022		ADDED DRAWING TM656 BASE REACTIONS AND CLARIFIED DRAWING TM628 TABLE DETAIL REQUIREMENTS	
CALC. BOOK NO.	7088	SDR DATE	08-JUL-2022
			TM655