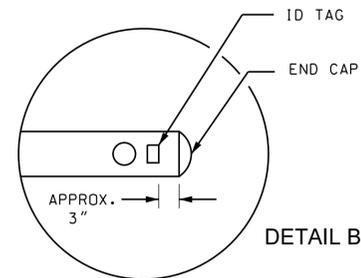


IDENTIFICATION TAG



ID TAG NOTE:

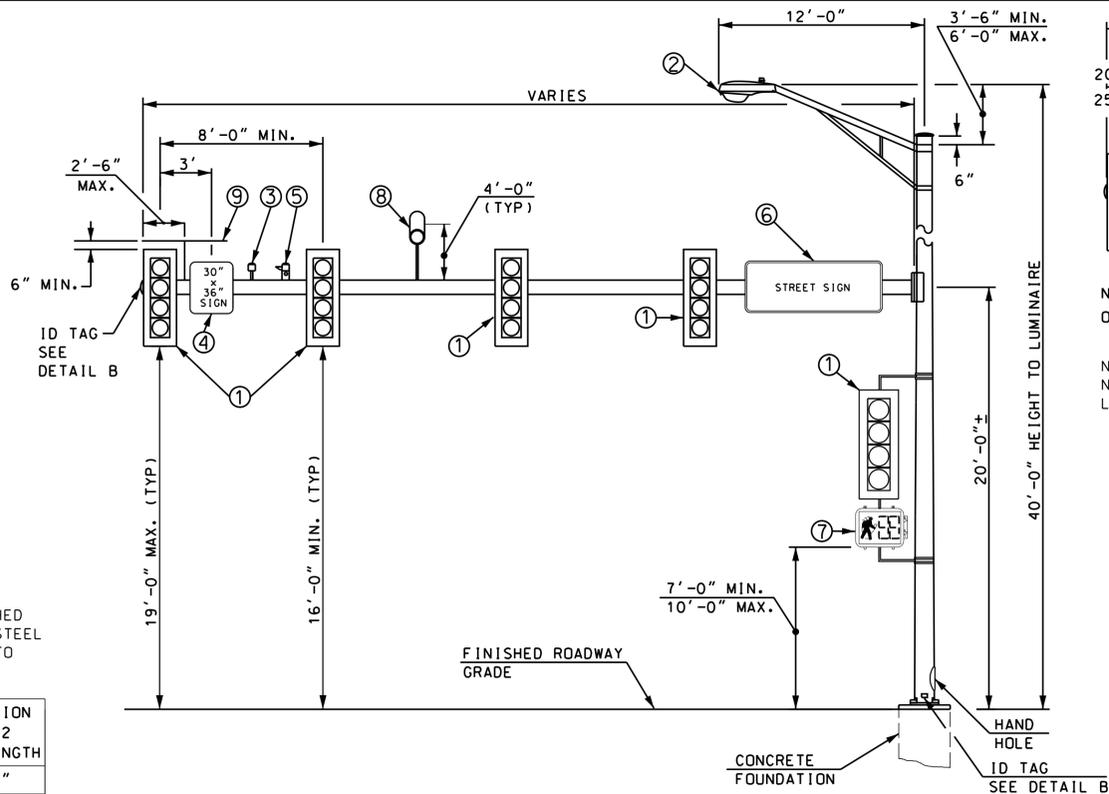
TAG SHALL BE ALUMINUM OR STAINLESS STEEL AND ATTACHED TO POLE OR MAST ARM USING TWO RIVETS OR STAINLESS STEEL DRIVE SCREWS. ID TAG HOLES SHALL BE DRILLED PRIOR TO GALVANIZING.

NH MAST ARM TYPE	DIMENSION (FT)	FOUNDATION TYPE 1	FOUNDATION TYPE 2 SHAFT LENGTH
NH-20	20	1A	8' - 0"
NH-20L	20	1A	9' - 0"
NH-25	25	1A	9' - 0"
NH-25L	25	1A	10' - 0"
NH-30	30	1B	10' - 0"
NH-30L	30	1C	10' - 0"
NH-35	35	1B	10' - 0"
NH-35L	35	1C	10' - 0"
NH-40	40	1B	10' - 0"
NH-40L	40	1C	11' - 0"
NH-45	45	1C	11' - 0"
NH-45L	45	1C	11' - 0"
NH-50	50	1D	11' - 0"
NH-50L	50	1D	11' - 0"
NH-55	55	1D	11' - 0"
NH-55L	55	1D	12' - 0"
NH-60	60	1E	12' - 0"
NH-60L	60	1E	12' - 0"

GENERAL NOTES

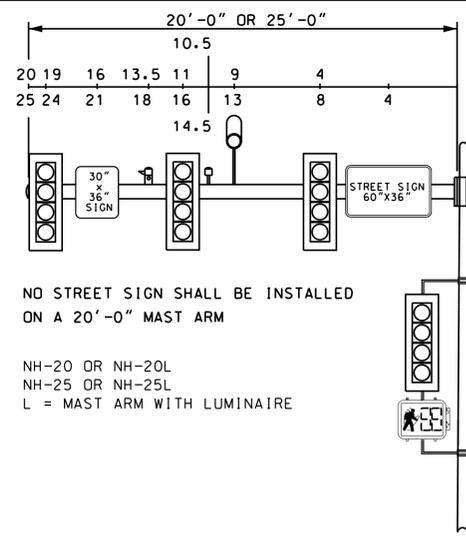
NOTES FOR TRAFFIC SIGNAL POLES, MAST ARMS AND PEDESTALS

- TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS. LUMINAIRES AND TRAFFIC SIGNALS INCLUDING ALL INTERIMS EXCEPT AS MODIFIED HEREIN. TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED TO SUPPORT FIXED SIGNALS, VIDEO DETECTION EQUIPMENT, EMERGENCY PREEMPTION EQUIPMENT AND LUMINAIRES AS SHOWN ON THE PLANS. MINIMUM CLEARANCE TO THE BOTTOM OF THE OVERHEAD SIGNAL HOUSING SHALL BE 16.0 FT. TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED BASED ON THE SPECIAL PROVISION FOR SECTION 616.
- STEEL STRUCTURES, UNLESS OTHERWISE INDICATED, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 123.
- CONCRETE FOUNDATIONS SHALL BE CONCRETE CLASS AAA OR B, AS INDICATED ON THE FOUNDATION PLANS MEETING THE REQUIREMENTS OF 520. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF 544. THE FOUNDATIONS SHALL BE AS SHOWN ON THE PLAN.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55, HAVING MINIMUM YIELD STRENGTH OF 55 KSI WITH THREADED END AND HEX NUTS (2 PER BOLT), FULLY GALVANIZED IN ACCORDANCE WITH ASTM A 153. ANCHOR BOLTS SHALL BE SET ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- MAST ARM SIGNS SHALL BE INSTALLED ON THE MAST ARM ONE HALF THE SIGN WIDTH DISTANCE PLUS TWO FEET.
- A MITIGATION DEVICE SHALL BE INSTALLED ON ALL MAST ARM LENGTHS GREATER THAN 50 FEET.
- LAYOUTS SHOWN ARE FOR THE DESIGN OF TRAFFIC SIGNAL STRUCTURES. IF ACTUAL LOADING IS EQUAL TO OR LESS THAN THE LAYOUTS SHOWN, A STANDARD FOUNDATION MAY BE USED. IF LOADING EXCEEDS THE STANDARD DESIGNS SHOWN, A CUSTOM FOUNDATION WILL NEED TO BE DESIGNED AND APPROVED.
- SEE STANDARD PLANS TS-1, TS-2, TS-3 AND TS-4 FOR STANDARD FOUNDATION PLANS.

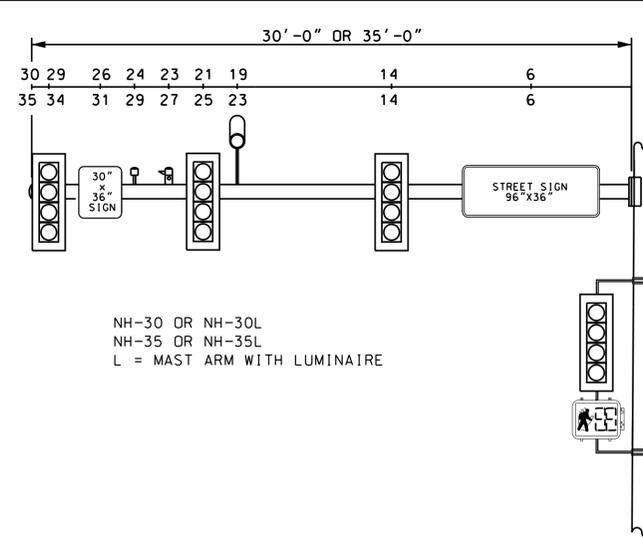


ITEM NO.	DESCRIPTION	WEIGHT (LBS.)	AREA (SQ. FT.)	SURFACE AREA (SQ. FT.)
①	4-SECTION HEAD	90	11.0	40.0
②	250 WATT LIMINAIRE	30	3.3	3.5
③	STROBE	5	1.0	N/A
④	SIGN	3.0 LB/SF	5.0	N/A
⑤	PREEMPTION RECEIVER	5	1.0	N/A
⑥	SIGN	AS	SHOWN	VARIES
⑦	PEDESTRIAN SIGNAL	80	8.0	N/A
⑧	VIDEO DETECTION	40	3.0	VARIES
⑨	MITIGATION DEVICE 60"x16"x1/8"	3.5 LB/SF		

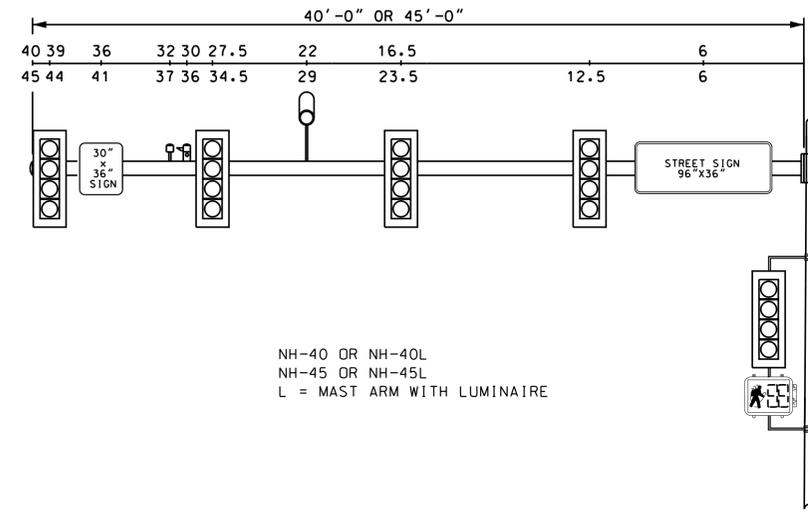
THE LOCATION OF THE STROBE AND PREEMPTION RECEIVER VARY.



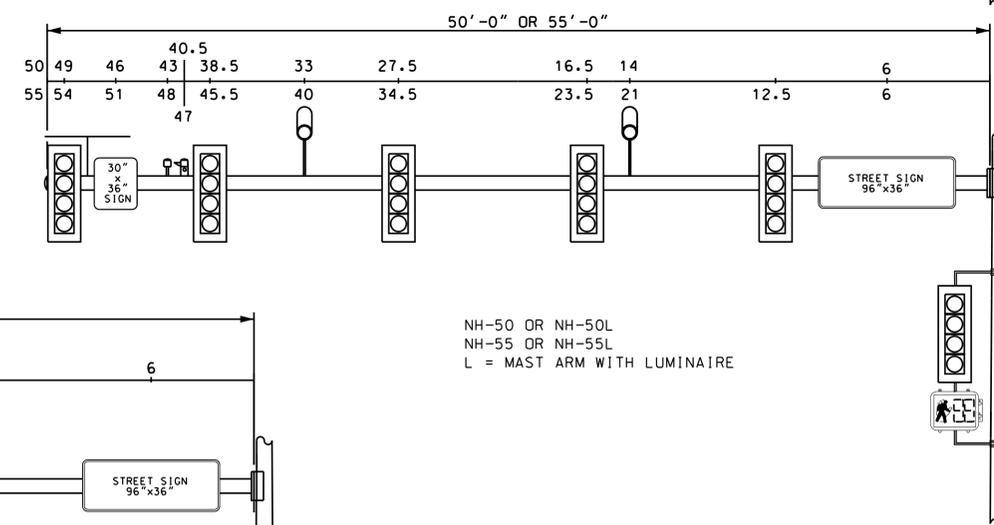
NH-20 OR NH-20L
NH-25 OR NH-25L
L = MAST ARM WITH LUMINAIRE



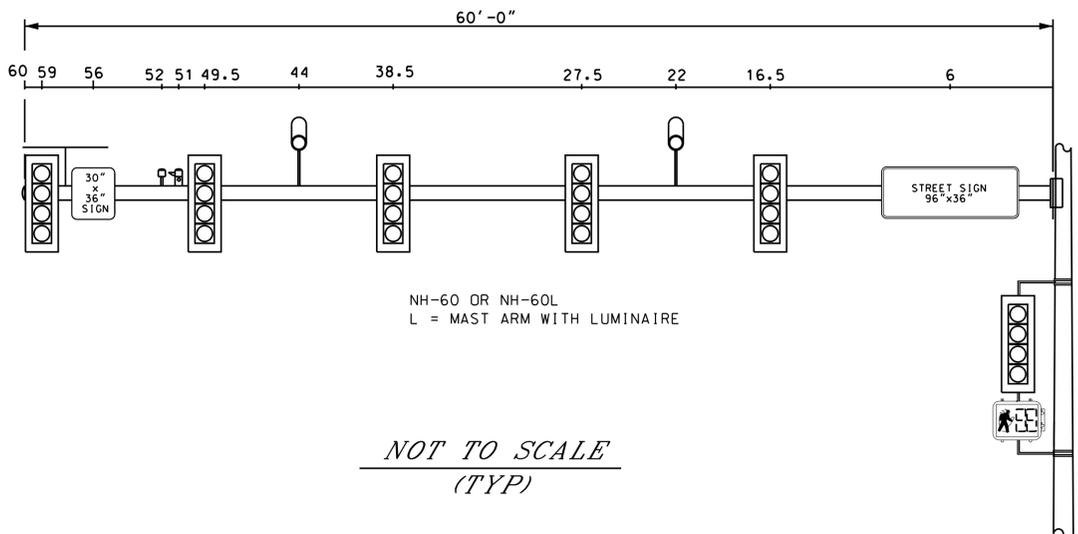
NH-30 OR NH-30L
NH-35 OR NH-35L
L = MAST ARM WITH LUMINAIRE



NH-40 OR NH-40L
NH-45 OR NH-45L
L = MAST ARM WITH LUMINAIRE



NH-50 OR NH-50L
NH-55 OR NH-55L
L = MAST ARM WITH LUMINAIRE



NH-60 OR NH-60L
L = MAST ARM WITH LUMINAIRE

*NOT TO SCALE
(TYP)*

LAYOUTS SHOWN ARE FOR THE DESIGN OF STANDARD MAST ARMS. IF ACTUAL LOADING IS EQUAL TO OR LESS THAN THE LAYOUTS SHOWN, STANDARD MAST ARM MAY BE USED. IF LOADING EXCEEDS THE STANDARD DESIGNS SHOWN, A CUSTOM MAST ARM WILL NEED TO BE DESIGNED AND APPROVED.

**TRAFFIC SIGNAL STANDARD
TRAFFIC SIGNAL MAST ARMS**

STANDARD NO. TS-7

REVISION DATE
01-17-19

*DGN FILE NAME
TS-7

STANDARD PLANS



STANDARD NO. TS-7