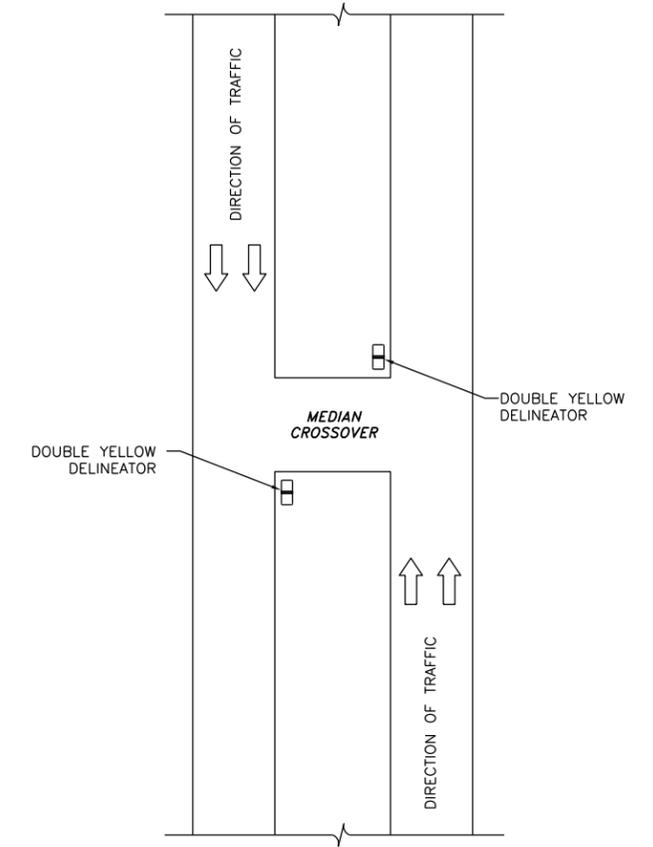
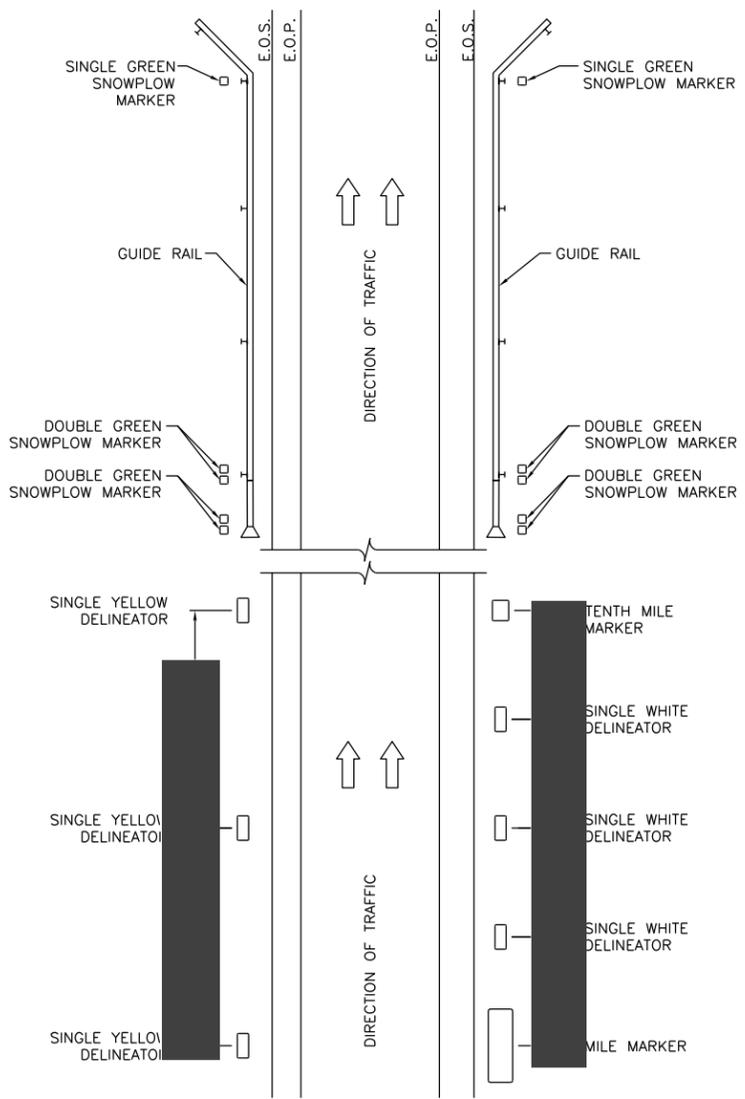


**DELINEATOR LAYOUT FOR INTERCHANGES**



**DELINEATOR LAYOUT MEDIAN CROSSOVERS**



**MARKER AND DELINEATOR LAYOUT FOR THRUWAY MAINLINE**

**NOTES:**

1. THE TYPICAL SPACING OF DELINEATORS FOR INTERCHANGES IS [ ] FEET. FOR LOCATIONS WHERE THE ROADWAY HAS A DEGREE OF CURVE OF [ ] DEGREES OR MORE (OR A RADIUS OF CURVE OF 1000 FEET OR LESS), THE SPACING SHALL BE [ ] FEET.
2. ON THRUWAY RAMPS WHERE TWO-WAY TRAFFIC IS SEPARATED BY BARRIER (CONCRETE, CORRUGATED BEAM, ETC.), BACK-TO-BACK YELLOW DELINEATORS SHALL BE INSTALLED ALONG THE BARRIER AT A SPACING OF [ ] FEET.
3. SOME EXISTING MARKERS AND DELINEATORS WITHIN THE PROJECT LIMITS MAY NOT BE IN THE CORRECT LOCATIONS. THE CONTRACTOR SHALL INCLUDE IN THE PRICE BID FOR EACH RESPECTIVE MARKER AND/OR DELINEATOR THE COST TO ACCURATELY DETERMINE THE EXACT LOCATION PRIOR TO INSTALLATION. OVERHEAD AND MAINLINE STRUCTURES SHALL BE USED AS FIXED REFERENCE GUIDES FOR THE INSTALLATION. THE ENGINEER SHALL APPROVE THE EXACT LOCATIONS PRIOR TO INSTALLATION. ANY COST FOR THIS LAYOUT WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MARKERS AND/OR DELINEATORS.
4. WHERE AN EXISTING TENTH MILE MARKER FALLS WITHIN A LINE OF DOUBLE WHITE DELINEATORS, THE TENTH MILE MARKER SHALL REMAIN AT ITS PRESENT LOCATION.
5. POSTS, BANDS, BRACKETS, AND ALL NECESSARY HARDWARE ARE TO BE FURNISHED BY THE CONTRACTOR. DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS ARE TO BE FURNISHED BY THE AUTHORITY. THE DESIGN ENGINEER SHALL PROVIDE THE SIGN SHOP WITH DELINEATOR, MILE MARKER, TENTH MILE MARKER, AND SNOWPLOW MARKER REQUIREMENTS DURING PROJECT DESIGN AS WELL AS AN APPROXIMATE DATE WHEN NEEDED IN THE FIELD. DURING CONSTRUCTION, AT LEAST ONE MONTH PRIOR TO SCHEDULED INSTALLATION, THE ENGINEER-IN-CHARGE SHALL CONTACT THE SIGN SHOP TO CONFIRM THE DATE WHEN THE MATERIAL IS NEEDED IN THE FIELD. THE SIGN SHOP WILL PREPARE THE SHIPMENT AND ARRANGE FOR DIVISION HIGHWAY TO PICK UP THE DELINEATORS AND/OR MARKERS. THE CONTRACTOR SHALL THEN ARRANGE TO PICK UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY. COSTS FOR PICKING UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY ARE TO BE INCLUDED IN THE PRICE BID FOR EACH RESPECTIVE ITEM.
6. ALL MILE MARKERS SHALL BE ERECTED ON THE FRANKLIN STEEL CO. EZE-ERECT [ ] MARKER. NO SUBSTITUTIONS WILL BE ALLOWED FOR THE MILE MARKER POST. IDENTICAL MILE MARKERS FOR OPPOSITE DIRECTIONS OF TRAVEL SHALL BE LOCATED DIRECTLY ACROSS FROM EACH OTHER.
7. ON CURVES, DELINEATOR FACES SHALL BE ORIENTED TO PROVIDE OPTIMUM VISIBILITY AT NIGHT. EXACT ORIENTATION WILL VARY BASED UPON THE DEGREE OF CURVE.
8. DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS SHALL BE ATTACHED TO POSTS AND BRACKETS USING VANDAL RESISTANT FASTENERS. THE FASTENERS SHALL BE ALUMINUM ALLOY 6061-T6 OR 2024-T4.

9. BRACKETS SHALL BE ATTACHED TO GUIDE RAIL, BRIDGE RAIL, MEDIAN RAIL, AND MEDIAN BARRIER USING BOLTS, BLIND LOCK BOLTS, SELF-TAPPING SCREWS, EXPANDING ANCHOR BOLTS, ETC. MADE OF STAINLESS STEEL, GALVANIZED STEEL, OR ALUMINUM ALLOY 6061-T6 OR 2024-T4.
10. ALUMINUM HARDWARE OF 2024-T4 SHALL BE ALCLAD OR FINISHED WITH TYPE 206 FINISH IN ACCORDANCE WITH THE SPECIFICATIONS OF ALUMINUM ANODIC COATINGS.

**DELINEATORS AND SNOWPLOWING MARKERS**

11. ON ROADWAY SECTIONS WITHOUT GUIDE RAIL, RIGHT SIDE DELINEATORS SHALL BE INSTALLED [ ] OUTSIDE THE USABLE RIGHT SHOULDER AND LEFT SIDE DELINEATORS SHALL BE INSTALLED [ ] FROM THE LEFT EDGE OF SHOULDER. (REFER TO TABLE ON DMM-1.) WHERE THERE IS A CHANGE IN SHOULDER WIDTH, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.
12. ON ROADWAY SECTIONS HAVING GUIDE RAIL, DELINEATORS AND SNOWPLOW MARKERS SHALL BE INSTALLED IMMEDIATELY BEHIND THE GUIDE RAIL AND BEHIND THE FRONT FACE OF THE END TREATMENT. WHERE THERE IS A CHANGE IN THE GUIDE RAIL LATERAL OFFSET, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.

**POST ERECTION**

13. POSTS MAY EITHER BE DRIVEN OR SET. POSTS SHALL BE ERECTED TO PROVIDE THE PROPER LOCATION, LINE AND GRADE, AND TRUE VERTICAL ALIGNMENT OF THE MARKERS AND/OR DELINEATORS.
14. FOR POSTS THAT ARE DRIVEN, HAND OR MECHANICAL DEVICES MAY BE USED. A SUITABLE DRIVING CAP SHALL ALSO BE USED TO PREVENT EXCESSIVE DAMAGE TO THE TOP OF THE POSTS. AFTER DRIVING, THE TOP OF THE POSTS SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSIONS AS THE BODY OF THE POSTS. NO BATTERED HEADS WILL BE ACCEPTED. POSTS THAT ARE BENT OR OTHERWISE DAMAGED TO THE EXTENT THAT, IN THE OPINION OF THE ENGINEER, THEY ARE UNFIT FOR USE IN THE FINISHED WORK SHALL BE REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
15. FOR POSTS THAT ARE SET, HOLES SHALL BE DUG TO THE FULL EMBEDMENT DEPTH SHOWN ON THE PLANS. AFTER SETTING THE POSTS AT THE FULL EMBEDMENT DEPTH, THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL PLACED IN LAYERS OF NOT MORE THAN 6 INCHES IN DEPTH. EACH LAYER SHALL BE THOROUGHLY COMPACTED. CARE SHALL BE TAKEN DURING COMPACTION TO PRESERVE THE ALIGNMENT OF THE POST.
16. WHEN SOUND ROCK IS ENCOUNTERED, POSTS SHALL BE FOUNDED A MINIMUM OF [ ] INTO SOUND ROCK. COST SHALL BE INCLUDED IN THE APPROPRIATE MARKER OR DELINEATOR ITEM.
17. FOR POSTS THAT ARE INSTALLED IN PAVED AREAS, SODDED AREAS, SIDEWALKS, ETC., DISTURBED AREAS SHALL BE RESTORED IN-KIND.

DATE	DESCRIPTION	BY	SYM.
1/11	DELIN. OFFSET FROM LEOP	R. COURNOYER	

**REVISIONS**

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
PROJECT OF PROJECT LINE 1  
PROJECT OF PROJECT LINE 2

LOCATION OF PROJECT  
LOCATION OF PROJECT LINE 1  
LOCATION OF PROJECT LINE 2

TITLE OF DRAWING  
MILE MARKER, TENTH MILE MARKER,  
DELINEATOR, AND SNOWPLOW MARKER  
LAYOUT PLANS

	CONTRACT NUMBER:	TA
	DATE:	2/09
	DRAWING NUMBER:	DMM-2