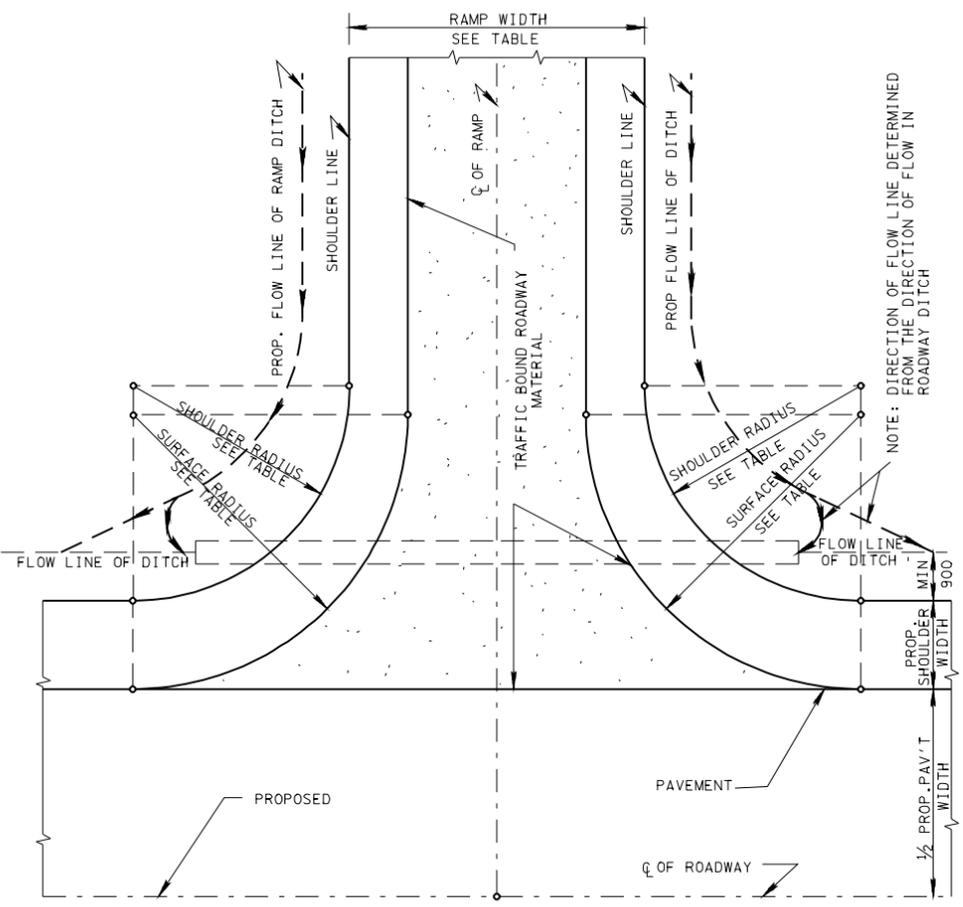
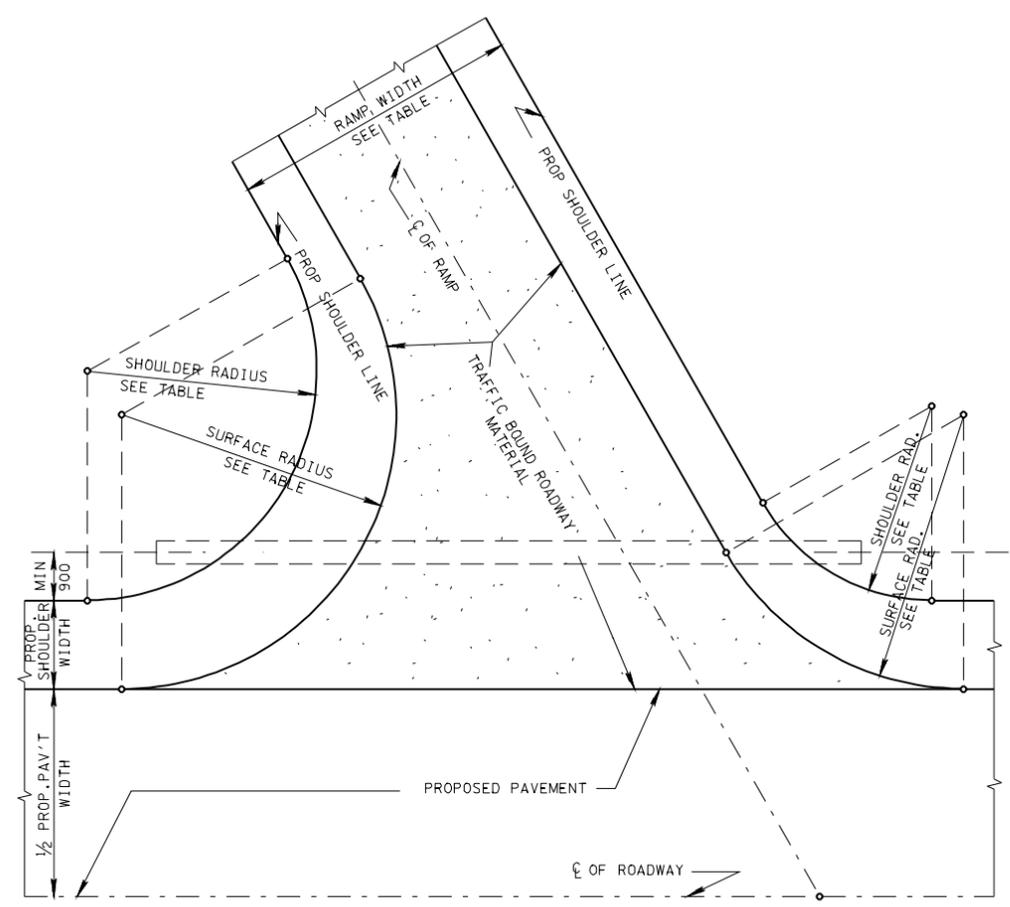


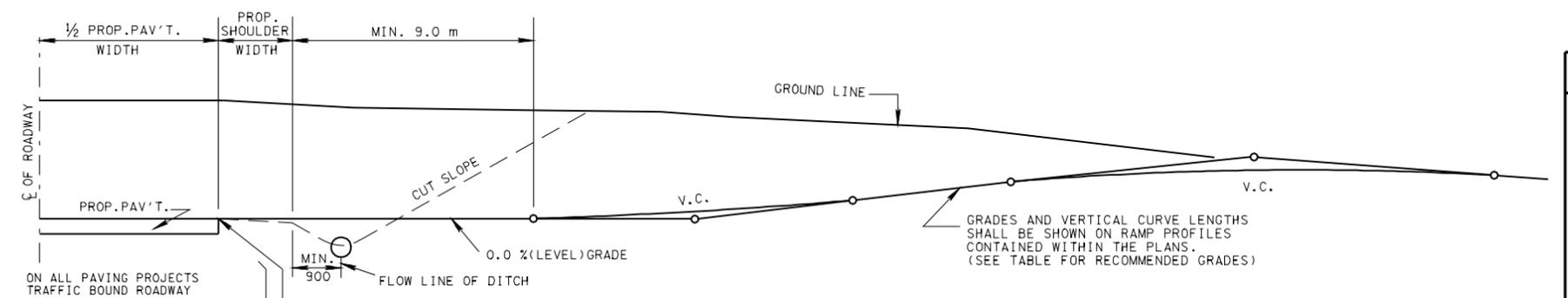
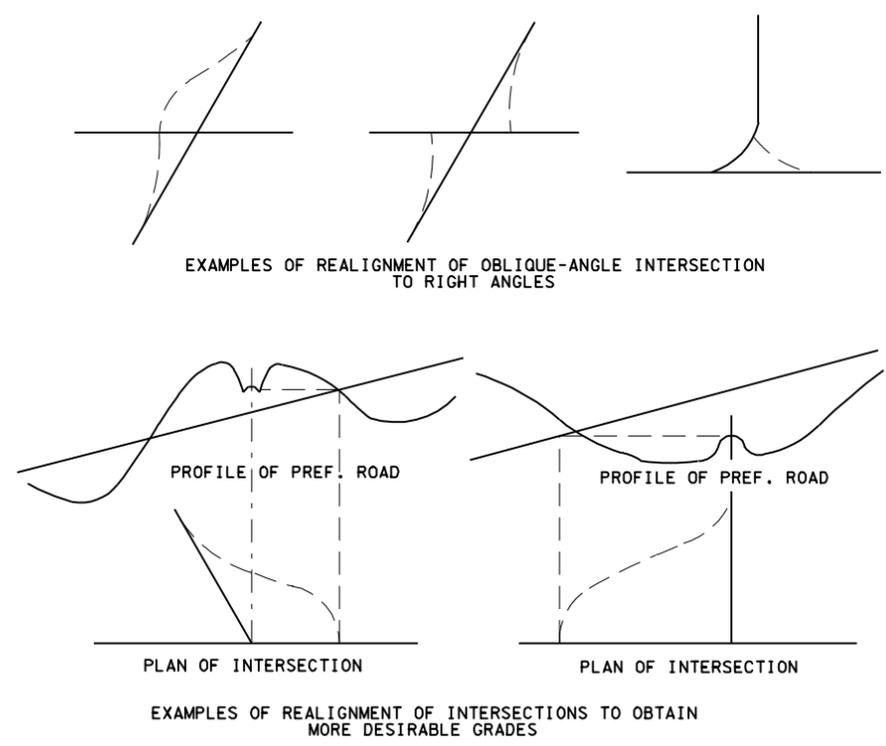
REV. 11-1-95: CHANGED TO METRIC.
 REV. 5-27-96: MODIFIED NOTE ON THE PROFILES.
 REV. 5-27-01: CHANGED PAY ITEM 203M01 DESCRIPTION.



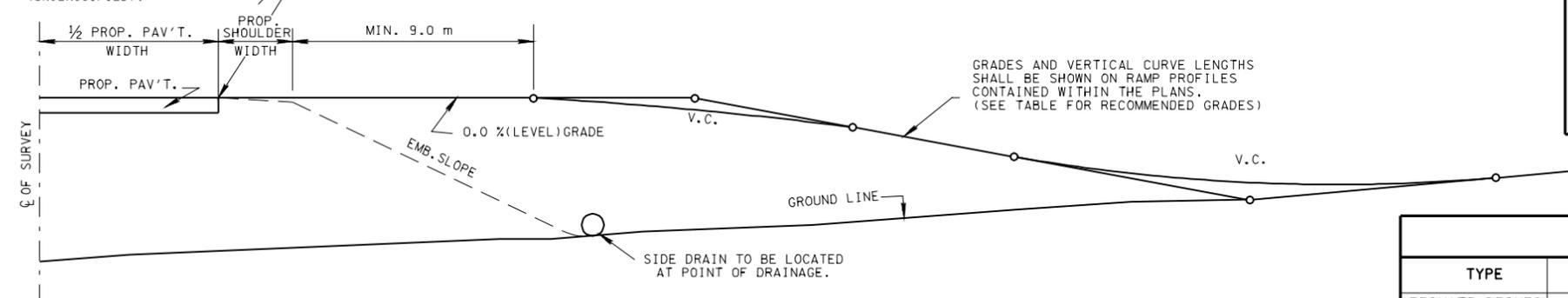
PLAN OF RAMP-90° WITH CL OF SURVEY



PLAN OF RAMP-SKEWED TO CL OF SURVEY



PROFILE OF RAMP IN EXCAVATION



PROFILE OF RAMP IN EMBANKMENT

ALIGNMENT AND GRADES OF RAMPS

- 1) NOTES:-ALIGNMENT OF RAMPS SHALL BE MODIFIED SO AS TO ATTAIN ADEQUATE SIGHT DISTANCES AND DESIRABLE GRADES.
- 2) SEE CURRENT POLICY ON GEOMETRIC DESIGN FOR RECOMMENDED SIGHT DISTANCES AT PUBLIC ROAD INTERSECTIONS.
- 3) GRADES SHALL BE DESIGNED SO THAT DRIVERS WILL HAVE THE LEAST POSSIBLE DIFFICULTY WITH CONTROL OF THEIR VEHICLES AT INTERSECTIONS. SEE TABLE BELOW FOR RECOMMENDED GRADES.
- 4) RAMPS TO GENERALLY FOLLOW THE GUIDES IN TABLE BELOW UNLESS OTHERWISE DETAILED OR DIRECTED.
- 5) WHERE EXISTING SHOULDER LINES AND EDGES OF EXISTING PAVEMENT ARE NOT THE SAME, PROPOSED SHOULDER LINES SHALL TIE INTO EXISTING SHOULDER LINES.
- 6) PLAN OF EMBANKMENT RAMP SAME AS PLAN OF EXCAVATION RAMP EXCEPT FOR LOCATION OF SIDE DRAIN AND DITCHES.
- 7) RAMP TO BE DITCHED AS DIRECTED.
- 8) PROFILE GRADE TO FOLLOW CL OF RAMPS.
- 9) SIDE DRAINS SHALL HAVE A MINIMUM 300 mm COVER IN ALL CASES.
- 10) NO ENDWALLS REQUIRED ON SIDE DRAINS UNDER RAMPS UNLESS OTHERWISE DETAILED OR DIRECTED.
- 11) $K = \frac{L(\text{LENGTH OF VERTICAL CURVE})}{A(\text{ALGEBRAIC DIFFERENCE OF GRADE})}$

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

GUIDE TABLE FOR RAMP DESIGN

TYPE	RAMP WIDTH	MIN.V.C. LENGTH	GRADES		PAV'T RADIUS	SHOULDER RADIUS
			MAXIMUM	DESIRABLE		
PRIVATE DRIVES	3.0 m-4.9 m	CREST K=0.3 SAG K=0.6 ⑪	④	UNDER 15 %	4.6 m	3.0 m-4.6 m
PUBLIC ROADS	6.0 m-9.0 m	15.0 m	10 %	UNDER 6 %	6.0 m-15.0 m	4.6 m-12.0 m
PRIMARY ROADS	9.0 m MIN.	30.0 m	6 %	3 %		

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
STANDARD RAMPS TO SIDE ROADS
 11-1-95 RPM-R-1