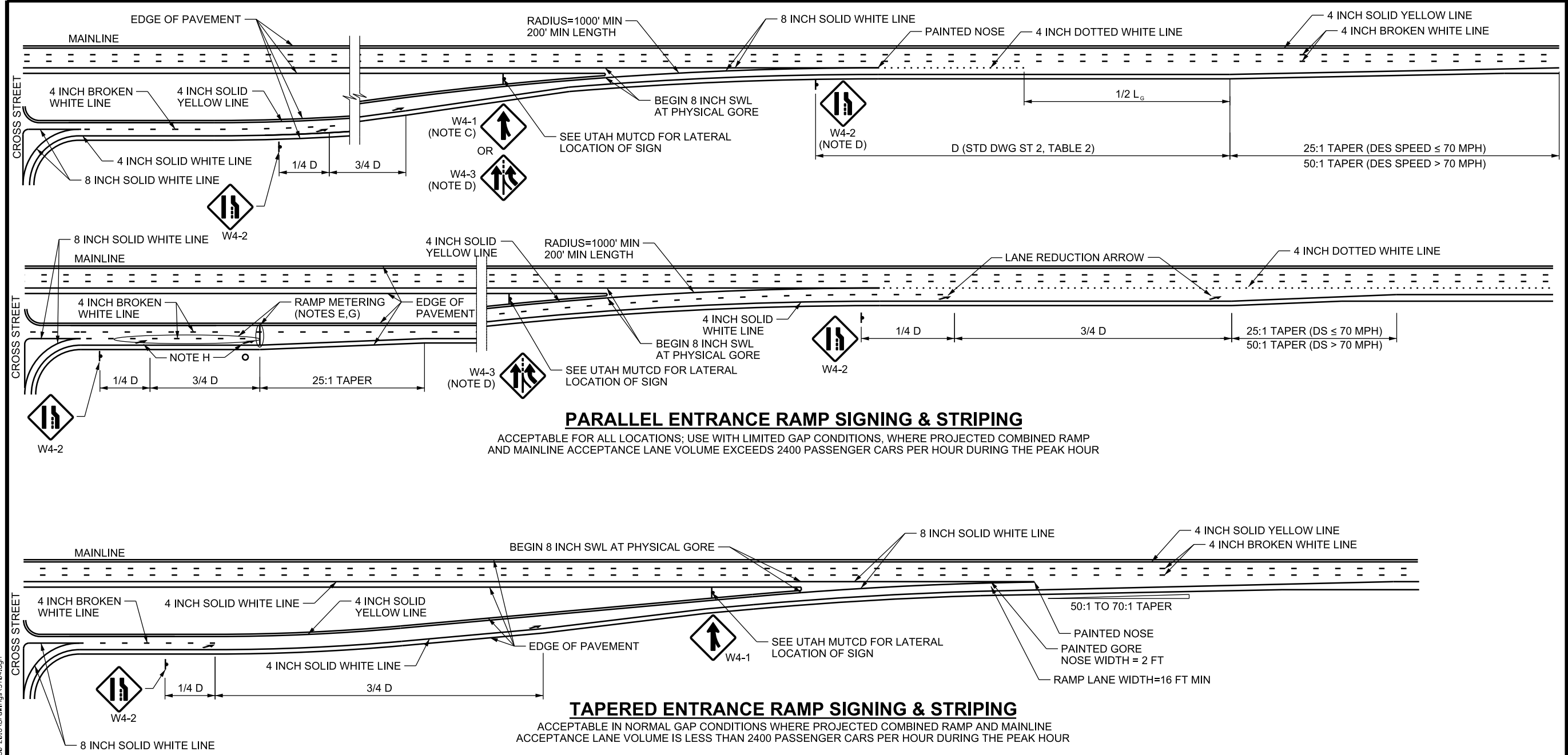


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**PARALLEL ENTRANCE RAMP SIGNING & STRIPING**

ACCEPTABLE FOR ALL LOCATIONS; USE WITH LIMITED GAP CONDITIONS, WHERE PROJECTED COMBINED RAMP AND MAINLINE ACCEPTANCE LANE VOLUME EXCEEDS 2400 PASSENGER CARS PER HOUR DURING THE PEAK HOUR

**TAPERED ENTRANCE RAMP SIGNING & STRIPING**

ACCEPTABLE IN NORMAL GAP CONDITIONS WHERE PROJECTED COMBINED RAMP AND MAINLINE ACCEPTANCE LANE VOLUME IS LESS THAN 2400 PASSENGER CARS PER HOUR DURING THE PEAK HOUR

**DESIGN NOTES:**

- A. REFER TO UDOT ROADWAY DESIGN MANUAL DM DRAWING 10.1 AND THE UTAH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR DESIGN OF ELEMENTS NOT SHOWN.
- B. USE WB-67 FOR TURNING RADIUS FOR ALL TURNING MOVEMENTS.
- C. USE MERGE SIGN (W4-1) WHEN THE FOLLOWING CONDITIONS ARE MET:
  - 1. SINGLE LANE PARALLEL ENTRANCE RAMP OR
  - 2. WHEN THE CALCULATED ACCELERATION PER AASHTO OR GAP ACCEPTANCE ARE NOT PROVIDED (SEE NOTES A AND E)
    - DO NOT USE EITHER THE LANE ENDS SIGN (W4-2R) OR THE ADDED LANE SIGN (W4-3) WHEN USING THE W4-1 SIGN
- D. USE ADDED LANE SIGN (W4-3) WHEN THE CALCULATED ACCELERATION PER AASHTO AND GAP ACCEPTANCE IS PROVIDED (SEE NOTES A AND E)
  - DO NOT PLACE LANE ENDS (W4-2) SIGN WITHIN 200 FT OF THE PHYSICAL GORE
  - PLACE LANE ENDS SIGN (W4-2) ONLY WHEN USING THE W4-3 SIGN
- E. RAMP METER:
  - PLACE THE RAMP METER STOP LINE AT THE CALCULATED STORAGE PER AT SERIES STD DWGS WHERE RAMP METER IS USED
  - VERIFY RAMP METER STORAGE LENGTHS WITH CENTRAL TRAFFIC OPERATIONS DIVISION
- F. SEE STD DWG ST 1 FOR LINE DIMENSIONS.
- G. PLACE ITEMS ONLY WHEN RAMP WILL BE METERED. PLACE STOP LINE AT CALCULATED RAMP METER QUEUE FROM AT GRADE RAMP TERMINAL.
- H. LANE-REDUCTION ARROWS ARE OPTIONAL FOR SPEEDS LESS THAN 45 MPH.
- I. STANDARDS SHOWN ARE MINIMUM VALUES. EXCEED STANDARDS WHERE CONDITIONS PERMIT.

NO.	DATE	APPR.	REMARKS

**UTAH DEPARTMENT OF TRANSPORTATION**  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL  
*Randall P. [Signature]*  
CHAIRMAN STANDARDS COMMITTEE  
APPROVED

DATE: AUG 30, 2018  
DEPUTY DIRECTOR: *[Signature]*

**ENTRANCE RAMP  
PAVEMENT MARKINGS**

STANDARD DRAWING TITLE

STD. DWG. NO. **ST 4**

**SUPPLEMENTAL DRAWING**