

Sample Plan

CONCRETE PAVING DETAILS----- NARRATIVE

References:

Road Design manual: Chapter 7-1, 7-2 and 7-4

Design Scene: Chapter 10 - Paving

Technical Memorandum: No. 14-07-T-01 Rumble Strips and Stripes on Rural Trunk Highways

- Standard Plans:
- 5-297.222 Bridge Approach Panel Layout - (Concrete Barrier on Wingwall)
 - 5-297.223 Bridge Approach Panel Reinforcement Details - (Concrete Barrier on Wingwall)
 - 5-297.224 Bridge Approach Panel Layout - (Concrete Barrier on Approach Panel)
 - 5-297.225 Bridge Approach Panel Reinforcement Details - (Concrete Barrier on Approach Panel)
 - 5-297.227 Bridge Approach Panel Miscellaneous Details
 - 5-297.228 Bridge Approach Panel Joint Layout
 - 5-297.229 Bridge Approach Panel Joint Details
 - 5-297.231 Bridge Approach Panel Drainage Details
 - 5-297.233 Bridge Approach Treatment for Abutment on Footing
 - 5-297.234 Bridge Approach Treatment for Integral Abutment
 - 5-297.235 Pavement End Anchors Under Concrete Pav't (Grades 4% or Greater)

Miscellaneous: Metro District's Electronic Details Library
 pw:\0TS\DesignStandards\DesignDetails\

General Information:

A special detail will be required for approach panels that are on extreme skews. Meet and confer with the Concrete Engineer and incorporate the recommendations.

Anything that can't be shown accurately on a small scale should be detailed on a larger scale.

Where shoulders are strengthened for anticipated bus use, do not call for rumble strips.

When changing the existing profile grade elevation as in a mill and/or overlay, consider bridge clearances. Check with the District Bridge Maintenance office. Resulting vertical tapers should begin/end a minimum of 50' from the bridge.

When changing the existing profile grade elevation as in a mill and/or overlay, consider the guardrail heights. Existing top of guardrail height should have a minimum height of 28" and a maximum height of 30" for Design 8338 and 31" for Design Type 31. If the height of guardrail falls outside this window, then the guardrail should be adjusted.

Rumble strip details obtained from pw:\Documents\0TS\DesignStandards\DesignDetails\rumbles_dd.dgn must be modified to be plan specific.

Sample Plan

CONCRETE PAVING DETAILS----- CHECKLIST

___ 1. Bar Scale

___ 2. Legend

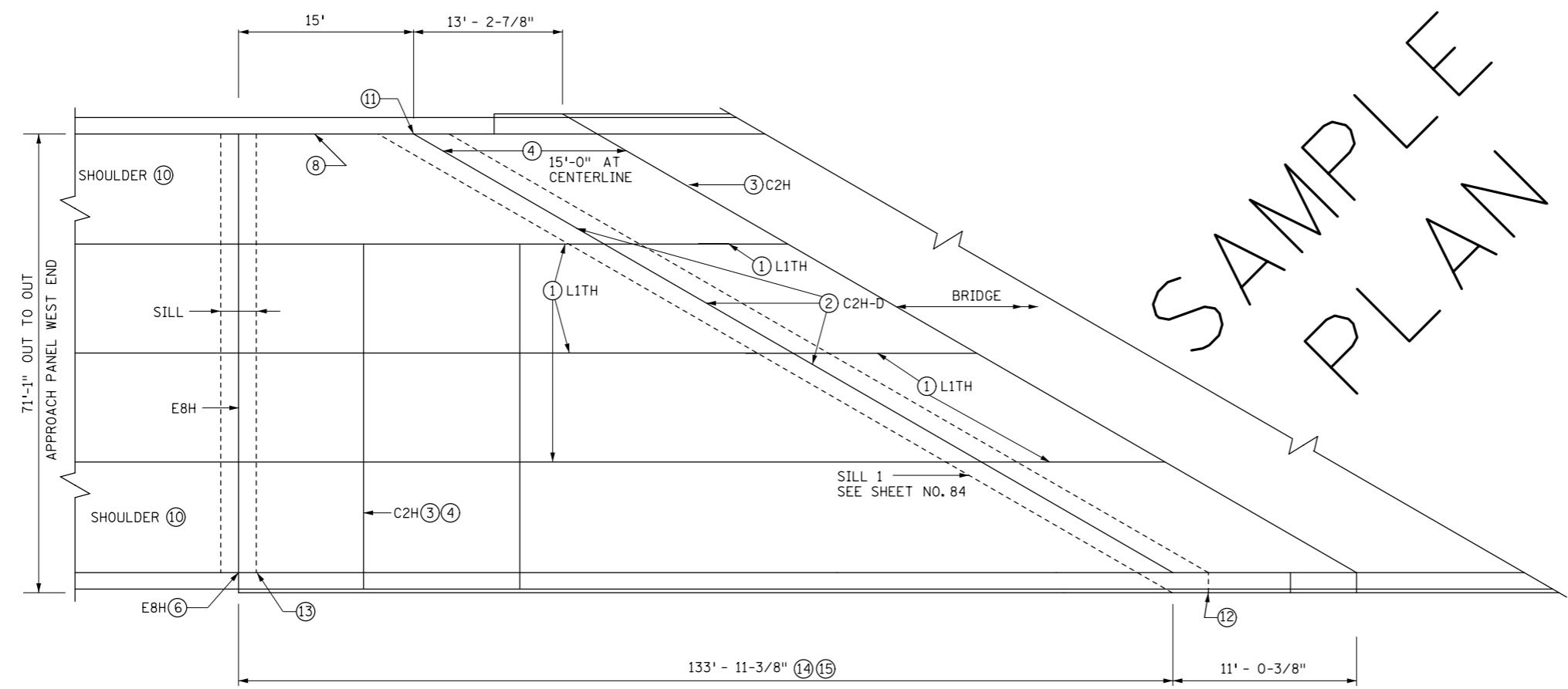
___ 3. North arrow

___ 4. Drawn by: and Checked by: Initials and Engineer's signature

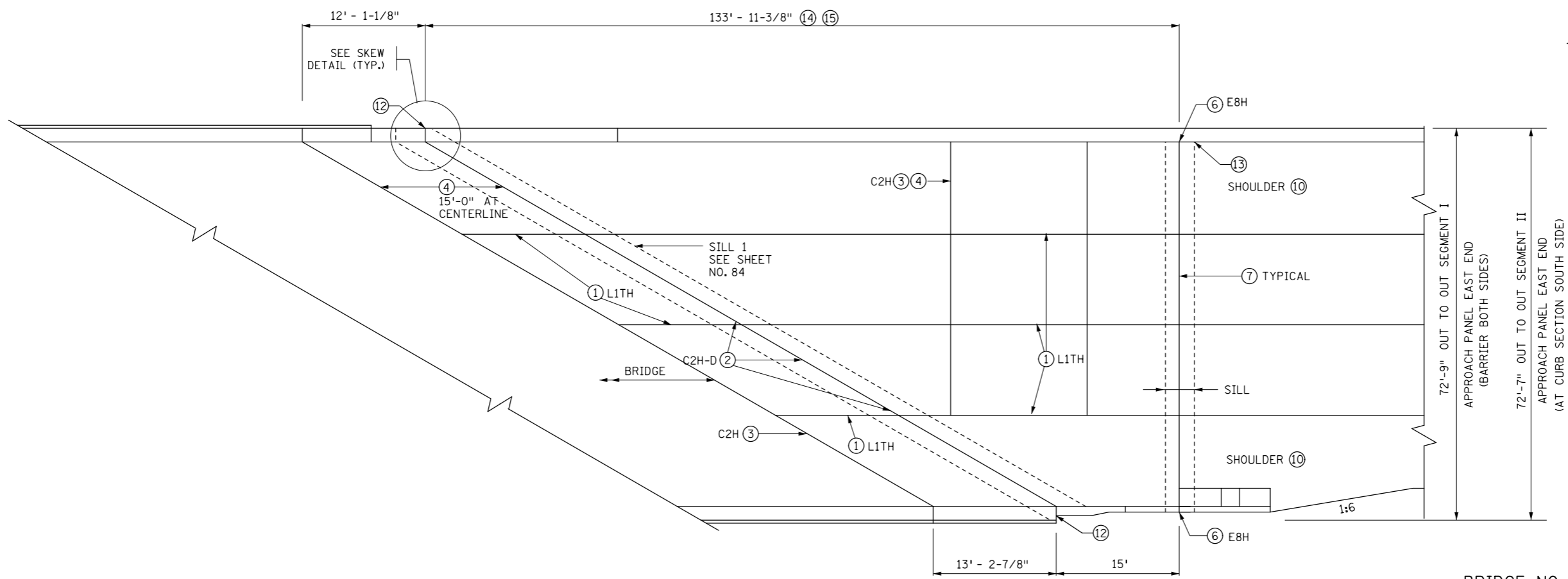
REVISION DATE 05/14/13
 PLOTTED/REVISED: 26-JAN-2017 08:40

DISTRICT #: METRO
 IPLOT NAME: spconpvdft
 FILENAME: Projects\DM_R0S\Non_Project\Design\SamplePlan\Eng\lsh\concpvdf.dgn

WEST END



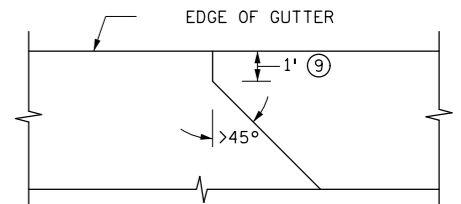
NOT TO SCALE



NOT TO SCALE

APPROACH PANEL JOINT LAYOUT NOTES:

- ① L1TH LONGITUDINAL JOINT. SEE STANDARD PLAN 5-297.229 FOR REINFORCEMENT LAP LENGTH REQUIREMENTS FOR STAGED CONSTRUCTION.
- ② CONSTRUCTION JOINT. USE JOINT TYPE C2H-D WITH NO DOWEL BARS AT MID DEPTH OF THE SLAB.
- ③ C2H CONTRACTION JOINT.
- ④ 15'-0" FOR SKEWS OVER 40°.
- ⑤ ALL JOINTS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE WHILE THE CONCRETE IS STILL GREEN. WHEN A CONCRETE WEARING COURSE IS SPECIFIED, THE JOINTS SHALL BE SAWN THROUGH BOTH THE WEARING COURSE AND THE UNDERLYING APPROACH SLAB IN A SINGLE OPERATION.
- ⑥ E8H JOINT REQUIRED IN CURB OR BARRIER ADJACENT TO E8H JOINT. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB OR BARRIER TO BACK OF CURB OR BARRIER.
- ⑦ SEE SHEET NO. 95 FOR TYPE OF EXPANSION JOINT.
- ⑧ SEE STANDARD PLANS 5-297.229 OR 5-297.231 FOR JOINT DETAIL FOR CONCRETE BARRIER ON WINGWALL.
- ⑨ WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP).
- ⑩ SEE GRADING PLAN FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.
- ⑪ SILL AND E8H JOINT STOP AT GUTTER AND DO NOT EXTEND INTO INPLACE MEDIAN BARRIER AND RETAINING WALL. PROVIDE 1-1/2" POLYSTYRENE, TYPE B BETWEEN END OF SILL AND INPLACE RETAINING WALL - INCIDENTAL.
- ⑫ FORM SILL AROUND EXISTING WINGWALL WITH 1-1/2" POLYSTYRENE TYPE B - INCIDENTAL.
- ⑬ SILL STOPS AT GUTTER.
- ⑭ LIMITS OF INPLACE MEDIAN BARRIER REMOVAL.
- ⑮ FOR LOCATION OF C2H JOINTS, SEE SHEET NO. 129.



SKEW DETAIL (PLAN VIEW)

EAST END

72'-9" OUT TO OUT SEGMENT I
 APPROACH PANEL EAST END (BARRIER BOTH SIDES)
 72'-7" OUT TO OUT SEGMENT II
 APPROACH PANEL EAST END (AT CURB SECTION SOUTH SIDE)

BRIDGE NO. 27734 APPROACH PANEL LAYOUT

APPROACH PANELS - OVER 10° SKEWS ⑤

CONCRETE PAVING DETAILS