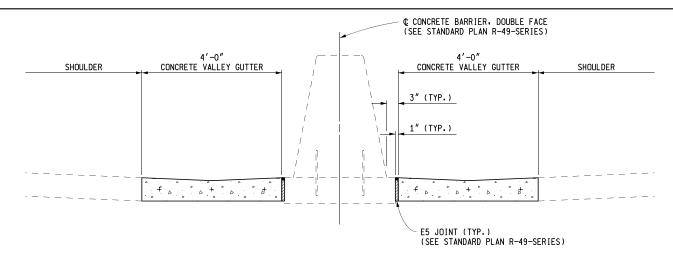
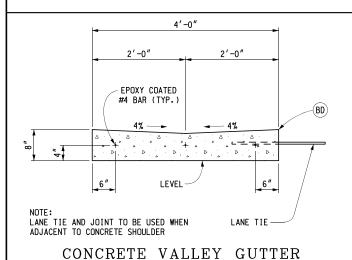


# CONCRETE VALLEY GUTTER WITH CONCRETE BARRIER, DOUBLE FACE, TYPE A



# CONCRETE VALLEY GUTTER WITH CONCRETE BARRIER, DOUBLE FACE, TYPE B



#### NOTES:

THE SHOULDER AND VALLEY GUTTER OR CURB AND GUTTER MAY BE CAST INTEGRALLY WHEN THE SHOULDER AND VALLEY GUTTER OR CURB AND GUTTER ARE THE SAME SLOPE. WHEN THEY ARE CAST INTEGRALLY, THE SLOPE ON THE BOTTOM OF THE SHOULDER MAY BE EXTENDED THROUGH THE VALLEY GUTTER OR CURB AND GUTTER.

TRANSVERSE JOINTS IN CURB AND GUTTER OR VALLEY GUTTER SHALL BE ALIGNED WITH THE SAME SIZE. TYPE. AND SEALANT AS IN THE PAVEMENT AND SHOULDER, EXCEPT THAT NO LOAD TRANSFER ASSEMBLY WILL BE PROVIDED IN THE SHOULDER OR CURB AND GUTTER. NO PLANE OF WEAKNESS JOINTS WILL BE PLACED IN CURB AND GUTTER.

JOINTS, CURB AND GUTTER, AND CONCRETE BARRIER, DOUBLE FACE SHALL BE ACCORDING TO STANDARD PLANS R-30, R-31, R-39, R-40, R-41, AND R-49-SERIES, EXCEPT AS SPECIFIED ON THESE PLANS.

OMIT LONGITUDINAL REINFORCEMENT WHEN CONCRETE VALLEY GUTTER OR URBAN FREEWAY CURB IS TIED TO A NON-REINFORCED PAVEMENT.

### EMDOT Michigan Department of Transportation

PREPARED
BY
DESIGN DIVISION
DRAWN BY: B.L.T.
CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR
Paul C. Aiegba

Gregg Brunner, P.E. Gregg Brunner Oct 14 2021 12:32 PM

DIRECTOR, BUREAU OF DEVELOPMENT

APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES

Bradley C. Wieferich Oct 14 2021 11:02 AM

APPROVED BY:

4-7-2022 F.H.W.A. APPROVAL 8-14-2019 PLAN DATE R-33-G

SHEET 1 OF 2

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR

# CONCRETE VALLEY GUTTER AND URBAN FREEWAY CURB

