DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

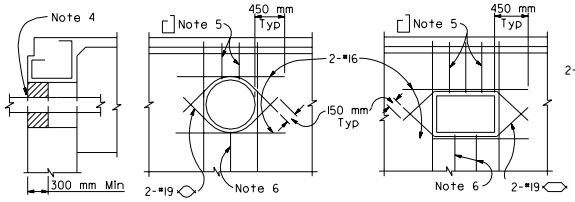
Caltrans Metric

R.A. Rogerson
REGISTERED CIVIL ENGINEER

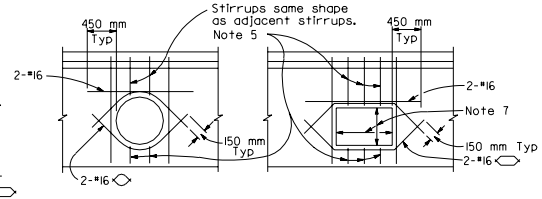
July 1, 1999
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER R.A. Rogerson No. C25712 Exp. 12-31-01 CIVIL STATE OF CALIFORNIA

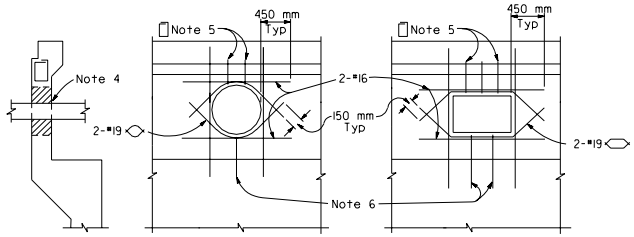
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



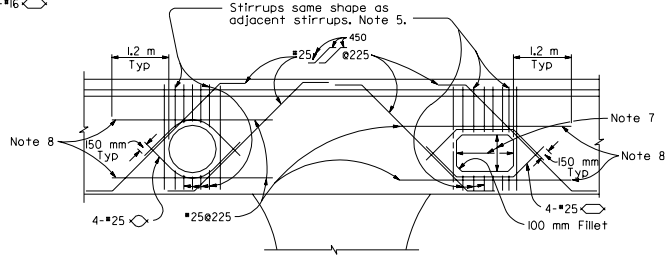
DETAIL U-11



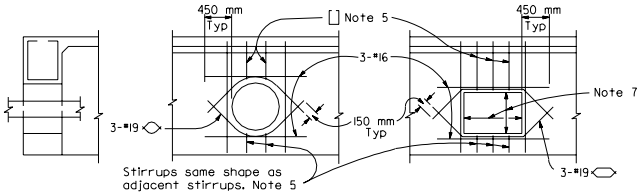
DETAIL U-15
INTERMEDIATE DIAPHRAGMS



DETAIL U-12



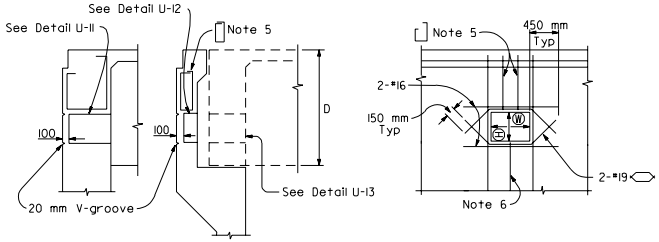
DETAIL U-17
BENT CAPS
Near or between columns



DETAIL U-13

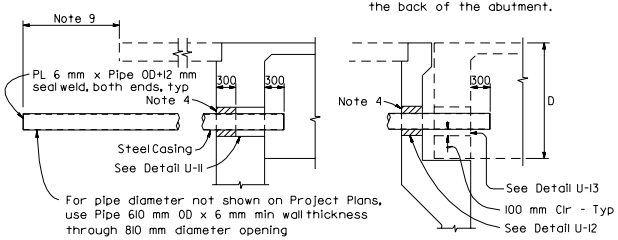
NOTES

1. The exact location, elevation, size and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer.
2. Girders not shown. See Project Plans.
3. All reinforcement detailed to be placed in addition to reinforcement shown on Project Plans.
4. Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 7 kg building paper.
5. Reinforcement to be same bar size, and $^2/_3$ the spacing of adjacent reinforcement shown on Project Plans.
6. Reinforcement to be same bar size and shape as adjacent reinforcement shown on Project Plans.
7. For future utility opening dimensions, see Project Plans and Detail U-14.
8. When there is insufficient space to place reinforcement as shown, hook reinforcement into exterior girder.
9. Unless otherwise shown on Project Plans, casing shall extend to the greater of 1.5 m beyond the end of the approach slab, 1.5 m beyond the end of the adjacent wingwall or 6 m beyond the back of the abutment.



DETAIL U-14
(For future utility opening)
ABUTMENT DIAPHRAGMS

For future utility opening dimensions not shown on Project Plans use:
(H) = $^1/_3$ D or 375 mm minimum, whichever is greater.
(W) = $^1/_3$ D or 375 mm minimum, whichever is greater.



DETAIL U-16
(For future utility provisions under approach slab)
ABUTMENT DIAPHRAGMS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UTILITY OPENINGS T-BEAM

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B6-10