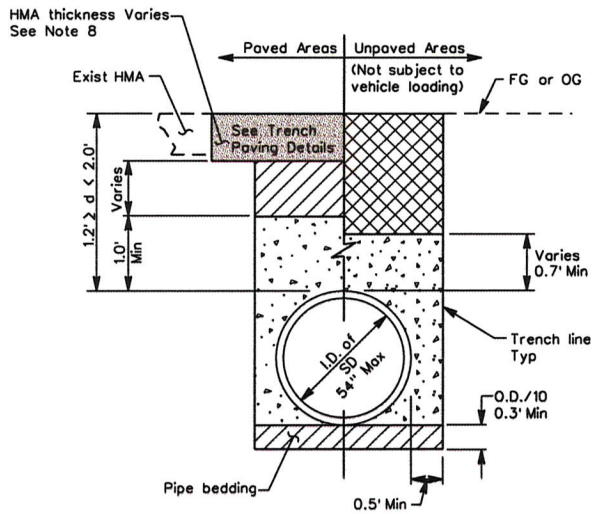







TRENCH PAVING DETAILS

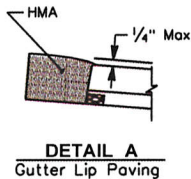


SHALLOW TRENCH BACKFILL DETAILS

TYPICAL HALF SECTIONS
1.2' > d < 2.0'
See Note 3

LEGEND

-  HMA Paving
-  CI 2 AB
-  Conc Bkf, See Note 6
-  CI 2 AB, or suitable native Bkf Mtl with a Min sand equivalent of 20.
-  Suitable native Mtl, no solid materials (rock, Conc) larger than 4 inches in greatest dimension or organic matter.



DETAIL A
Gutter Lip Paving

CONFORM NOTES:

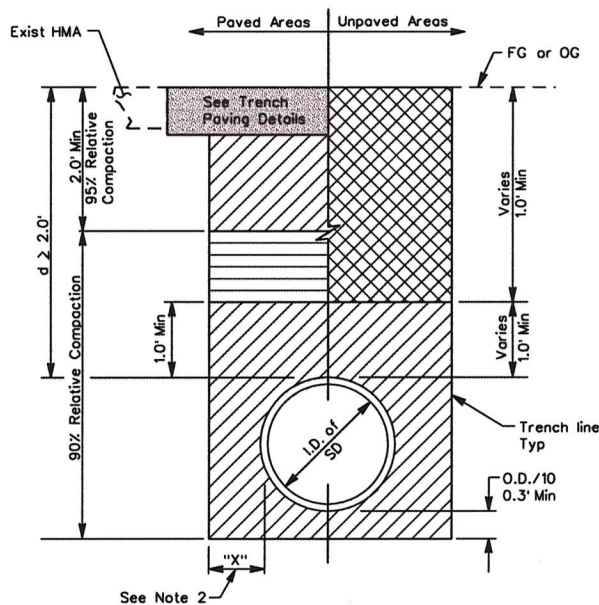
The pavement conform shall be as follows:

STANDARD CONFORM:

Cut through the full depth of existing HMA to a neat straight line at least 1.0 foot beyond the trench line. Re-cut any pavement edges damaged during construction to neat lines prior to paving. Paint binder (tack coat) shall be applied to all vertical surfaces in accordance with the latest edition of Caltrans Standard Specifications.

ALTERNATE CONFORM:

Grind existing HMA to a minimum depth of 0.20 feet on a neat straight line at least 1.0 foot beyond the trench line. Any pavement edges, including ground edges, damaged during construction shall be re-cut or re-ground to neat lines prior to paving. Paint binder (tack coat) shall be applied to all vertical surfaces in accordance with the latest edition of Caltrans Standard Specifications.



STANDARD TRENCH BACKFILL DETAILS

TYPICAL HALF SECTIONS
d >= 2.0'

Julia R. Bueren
PUBLIC WORKS DIRECTOR
March 11, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIA R. BUEREN
No. 37937
CIVIL
STATE OF CALIFORNIA

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

NOTES:

1. Unsuitable native material shall be excavated below the limit of excavation and replaced with suitable backfill material when directed by the Public Works Department.
2. "X" shall be as a minimum, the dimensions shown below for the storm drain "I.D."

I.D.	"x"
up to 12"	0.5'
12" to 54"	1.0'
over 54"	2.0'

3. If cover is less than 1.2' or the storm drain I.D. exceeds 54 inches in shallow installations, a special design is required with approval by the Public Works Department.
4. Where the trench parallels curb and the nearest trench line is less than 3 feet from the gutter lip, all existing HMA shall be replaced to the gutter lip. For gutter lip paving detail see Detail A.
5. Hot mix asphalt shall be 1/2-inch Type A HMA in conformance with Section 39, "Hot Mix Asphalt," of the California Department of Transportation's Standard Specifications, unless otherwise specified in the County contract, encroachment permit's Special Road Encroachment Permit Conditions or as directed by the Public Works Department.
6. Concrete shall contain not less than 505 lbs of cementitious material per cubic yard in conformance with Section 90, "Concrete," of the California Department of Transportation's Standard Specifications.
7. This standard plan shall govern over encroachment permit's Standard Road Encroachment Permit Conditions, and General Permit Conditions-Attachment 1. County Contract Special Provisions and Plans, or Encroachment permit's Special Road Encroachment Permit Conditions shall govern over this standard plan.
8. HMA thickness shall be existing HMA plus 0.1'. If PCC backfill encroaches into this specified thickness, the HMA thickness may be reduced, except the minimum HMA thickness shall not be less than 0.20'.

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MARTINEZ, CALIFORNIA
STANDARD PLAN

STORM DRAIN
TRENCH DETAILS

SCALE: NO SCALE
DATE: 3/14
DRAWN BY: H. HUSSEY
PLAN NO. CD01
CHECKED BY: M. HOLLINGSWORTH

NO.	DATE	REVISION DESCRIPTION	BY