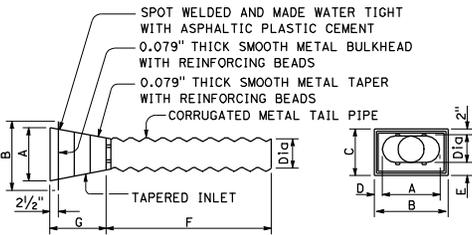


PLAN **END VIEW**
Bulkhead and taper of same thickness as tail pipe with 0.079" maximum. Tail pipe of same thickness as downdrain pipe.
ENTRANCE TAPER - TYPE 1
ALTERNATIVE A



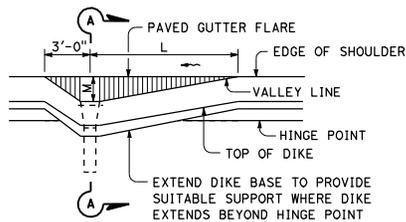
PLAN **END VIEW**
Tail pipe of same thickness as downdrain pipe.
ENTRANCE TAPER - TYPE 1
ALTERNATIVE B

CMP dimensions as tabulated below

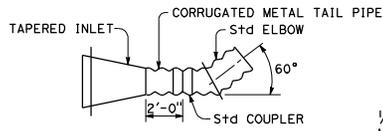
	P	Q
10"	15"	18"
15"	18"	21"
18"	21"	24"
21"	24"	

Dia	Min L	M	N
8"	10'-0"	1'-6"	8"
12"	15'-0"	1'-8"	1'-0"
15"	25'-0"	2'-0"	1'-3"
18"	30'-0"	2'-6"	1'-4"
24"	40'-0"	3'-0"	1'-6"

Slip joint to be same thickness as downdrain pipe.



PLAN
MOUNTABLE DIKE TYPE 1



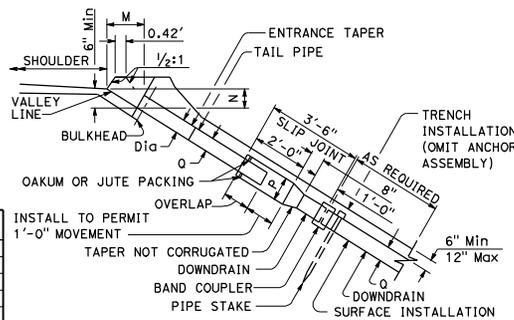
Tapered inlet of same construction and dimensions as Type 1 - Alternative A or B except tail pipe length will be 2'-0".

ENTRANCE TAPER - TYPE 2

Taper joints may be welded or riveted. Dimensions to be as tabulated below for Type 1 Alternatives A and B.

Dia	A	B	C	D	E	F	G
8"	1'-4"	2'-1 1/2"	1'-3"	4 3/4"	5"	6'-0"	2'-0"
12"	1'-6"	2'-1 1/2"	1'-7"	3 3/4"	5"	6'-0"	2'-0"
15"	1'-9"	2'-6"	1'-11"	4 1/2"	6"	6'-0"	2'-0"
18"	2'-0"	2'-10"	2'-3"	5"	7"	6'-0"	2'-0"
24"	2'-10"	3'-10"	2'-11"	6"	9"	4'-0"	4'-0"

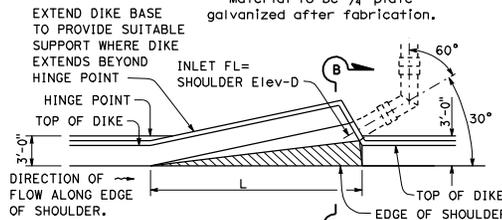
ENTRANCE TAPER - TYPE 1
ALTERNATIVE A AND B



SECTION A-A TYPE 1

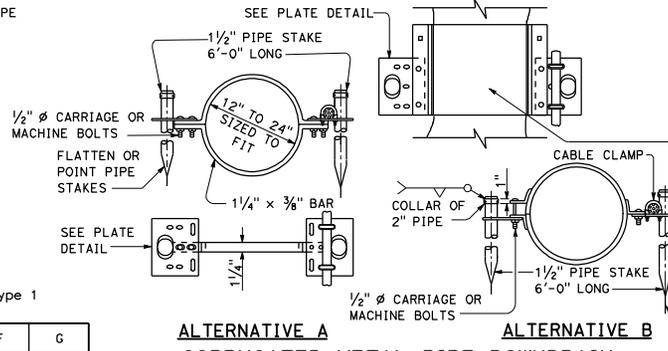
NOTES:

1. Cable, slip joint or anchor assembly to be used when specified.
2. Slip joint to be omitted when completely buried.
3. Slip joint for Type 1 entrance taper shown. Type 2 similar.



PLAN
MOUNTABLE DIKE TYPE 2
(For use on full freeway sections ONLY with grades of 2% or greater)

ENTRANCE TAPER AND PIPE DOWNRAIN



ALTERNATIVE A
ALTERNATIVE B
CORRUGATED METAL PIPE DOWNRAIN ANCHOR ASSEMBLY

Cable and cable clamps to be used when required by the Special Provisions.

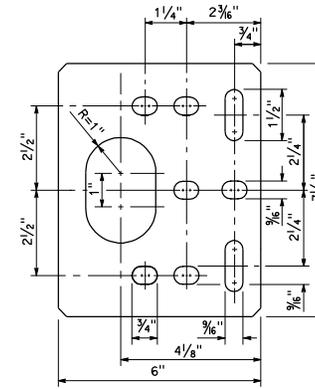


PLATE DETAIL

Material to be 1/4" plate galvanized after fabrication.

D16+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
------	--------	-------	--------------------------	-----------	--------------

REGISTERED CIVIL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

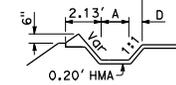
May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- 12" ANNULAR COUPLING BAND
- HELICAL COUPLING BAND
- TWO PIECE INTEGRAL FLANGE DIE FORMED BAND FOR HELICAL CORRUGATED STEEL PIPE
- FLATTEN OR POINT PIPE STAKES

NOTES:

1. Either Alternative A or Alternative B anchor assemblies and pipe stakes may be used at Contractor's option for corrugated steel pipe or corrugated aluminum pipe. Alternative A anchor assembly only to be placed in annular corrugation. Alternative A anchor assembly may be placed on annular coupling band if securely fastened on downstream side of joint. Alternative B anchor assembly to be fastened to pipe sections and not to a band coupler used to join sections.
2. For cable anchorage system details, see Standard Plan D87C.

Dia D	Min L
8"	15'
12"	20'
15"	30'
18"	35'
24"	45'



SECTION B-B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CORRUGATED METAL PIPE DOWNRAIN DETAILS

NO SCALE