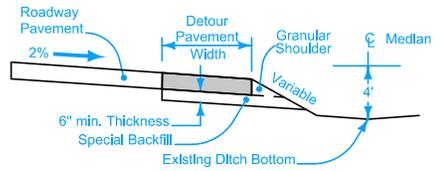
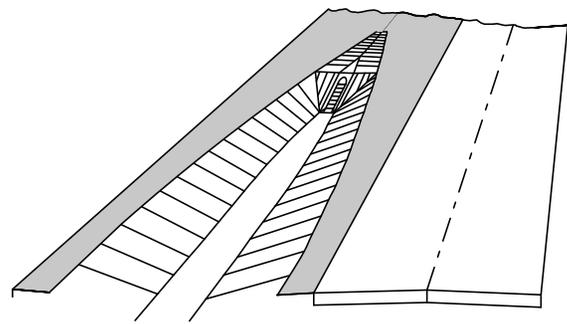


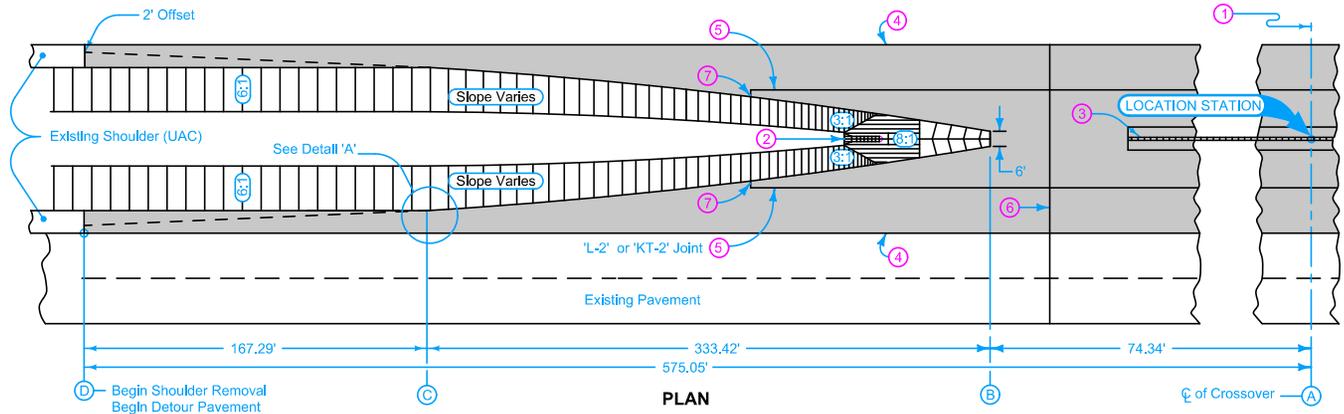
DETAIL 'A'



SECTION A-A



**PERSPECTIVE VIEW
DITCH SLOPE AND BEVELED PIPE**



PLAN

- Detour Pavement options: 9" PCC or 12" HMA
For joint details, see PV-101.
- ① Median crossover is symmetrical about centerline.
 - ② Beveled pipe and guard. See RF-27.
 - ③ Slotted drain for median crossover. See RF-45.
 - ④ 'KT-2' or 'L-2' joint if mainline pavement is new construction. Bend bars out. 'BT-3' joint if mainline pavement is existing. 'B' joint if Detour Pavement is HMA.
 - ⑤ For PCC Detour Pavement, 'KT-2' or 'L-2' spaced at one-quarter median width.
 - ⑥ For PCC Detour Pavement, match existing roadway joints. 'CD' joints are required.
 - ⑦ For PCC Detour Pavement, 2 foot 'C' Joint.

DESIGN QUANTITY TABLE		
Detour Pavement Sq. Yds.	Special Backfill Tons	Granular Shoulder Tons
4665	1860	380



- Possible Contract Items:
 Granular Shoulders, Type A
 Detour Pavement
 Embankment In Place
 Excavation, Class 10, Roadway and Borrow
 Excavation, Class 13, Roadway and Borrow
 Removal of Pavement
 Special Backfill

Possible Tabulation:
112-8

TABLE OF OFFSETS AND DROPS (PAVED SHOULDERS)																				
Distance from Location Station (Feet)	575.05	550	525	500	475	450	425	407.76	375	350	300	250	200	175	150	125	100	74.34	50	0
Offset from inside edge of Pavement (Feet)	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	7.72	9.24	12.82	17.13	22.15	24.94	27.90	31.05	34.38	38.00	41.00	41.00
Cross-Slope from inside edge of Pavement	4.00%	3.12%	2.23%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Drop from inside edge of Pavement (Feet)	0.24	0.19	0.13	0.12	0.12	0.12	0.12	0.12	0.15	0.19	0.26	0.34	0.44	0.50	0.56	0.62	0.69	0.76	0.82	0.82
POINT LOCATION	(D)							(C)										(B)		(A)

**Iowa Department
of Transportation**

STANDARD ROAD PLAN

REVISION
New 04-15-14

PV-509

SHEET 1 of 1

REVISIONS: New.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

**MEDIAN CROSSOVER
(82' MEDIAN)**