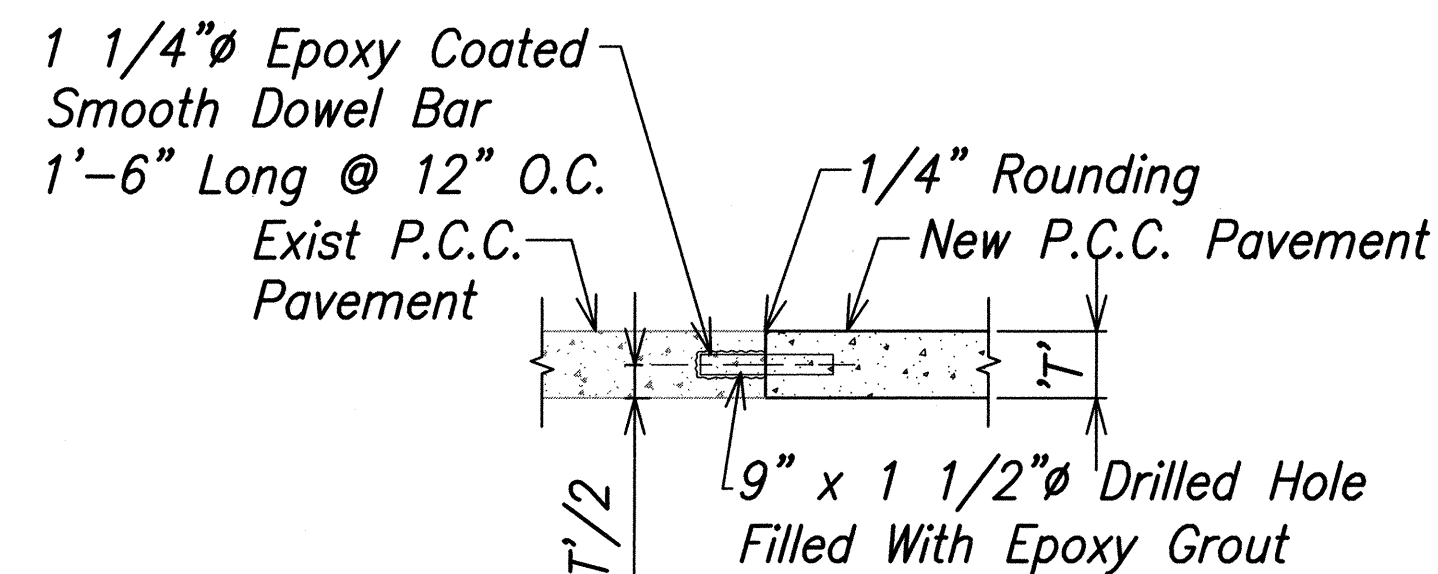
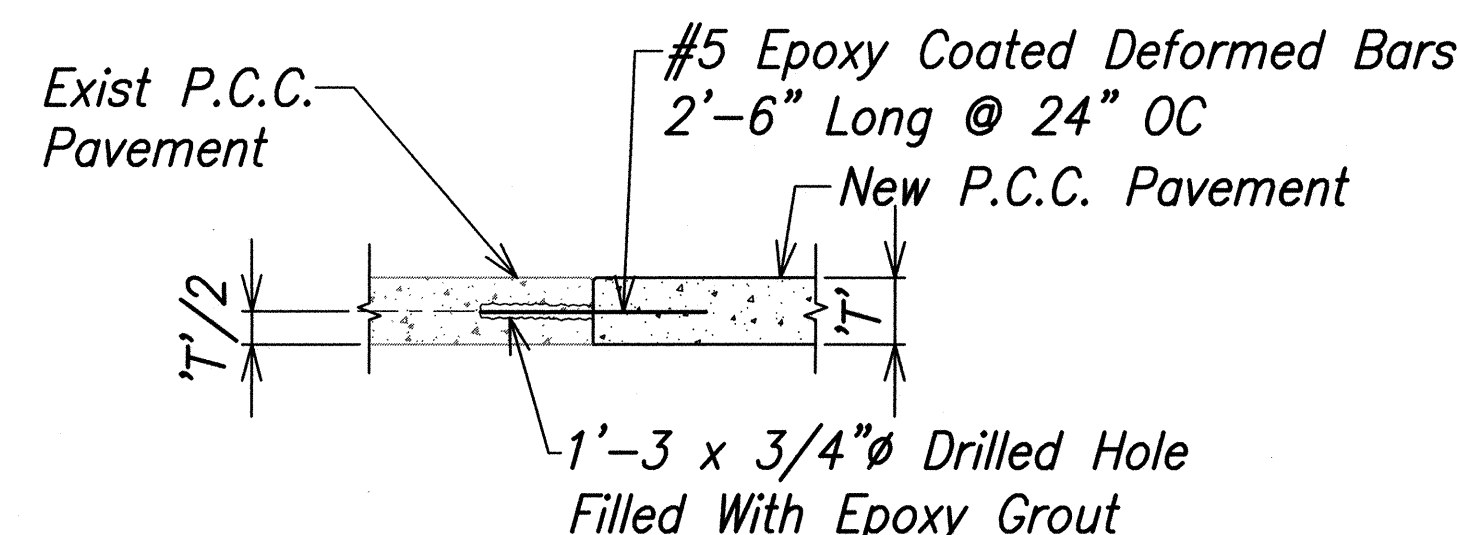


RIGID PAVEMENT RESTORATION NOTES

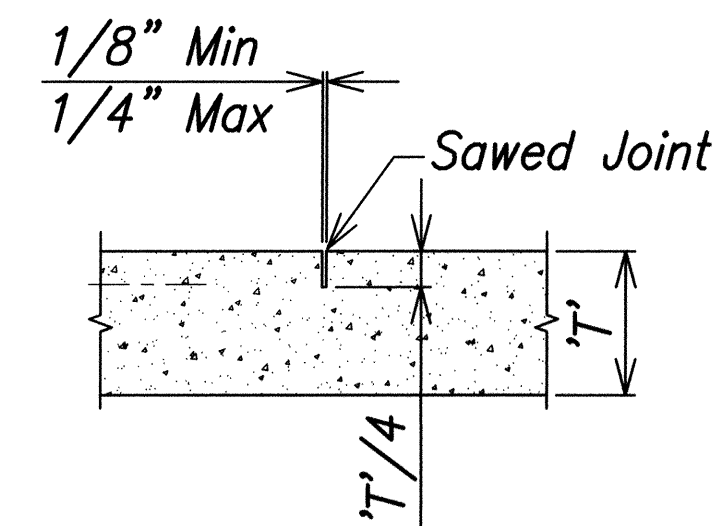
1. Provide longitudinal construction joint between existing P.C.C. and new P.C.C. slabs within transition sections.
2. Transverse construction joint to match existing adjacent pavement section.
3. 'T' equals existing P.C.C. pavement thickness.
4. The existing pavement surface shall be cold planed 1/2-inch minimum or to the top of the exist. P.C.C. slab, prior to installation of the A.C. mix IV overlay.
5. It is critical that dowels be positioned in place parallel to the pavement surface and paving lane direction to avoid future cracks in the P.C.C. pavement. The ends of the dowels shall not deviate more than 0.01' from the parallel in 9" length.
6. The Contractor shall not damage the epoxy coating on the dowels or deformed bars in any way during shipping, handling, or placement. Damaged epoxy coated dowels or deformed bars shall be replaced at no cost to the State.



EXISTING PAVEMENT
TRANSVERSE CONSTRUCTION JOINT
SCALE: 1"=1'-0"



LONGITUDINAL CONSTRUCTION JOINT
SCALE: 1"=1'-0"



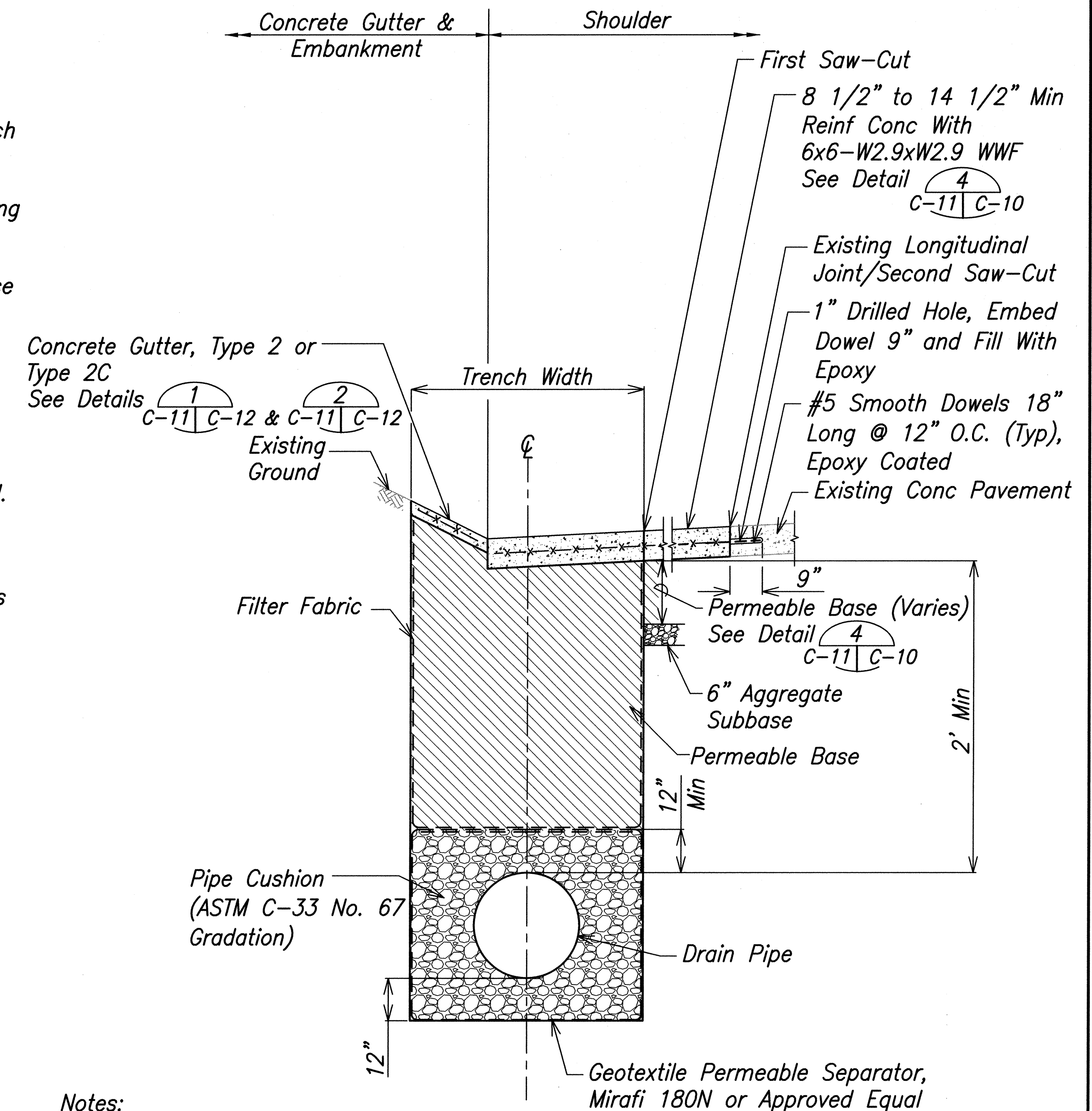
TRANSVERSE CONTRACTION JOINT
SCALE: 1"=1'-0"

RIGID PAVEMENT RESTORATION CONSTRUCTION JOINT DETAILS

1
C-05 C-11
C-10
C-11
Scale: 1"=1'-0"

Special Notes for P.C.C. Pavement Restoration with Permeable Base

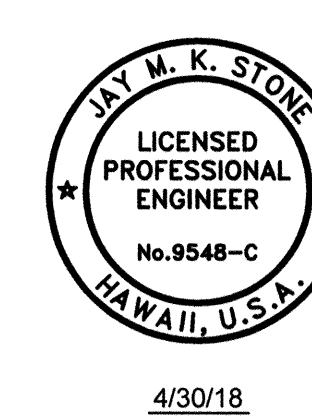
1. The Contractor shall make every effort to ensure that existing permeable base adjacent to any excavation does not ravel and undermine the adjacent existing pavement.
2. Saw cut existing pavement prior to shoring installation and trench excavation.
3. Shoring shall extend from bottom of trench to top of the existing permeable base.
4. Install trench backfill to top elevation of adjacent permeable base prior to removal of shoring.
5. After shoring is removed, the second longitudinal saw-cut shall be made at the existing longitudinal joint. The overlying P.C.C. slab piece shall be removed.
6. Remove and replace permeable base contaminated with soils. The permeable base shall be re-compacted with a vibratory sled.
7. The entire width of the P.C.C. pavement shall be reconstructed.
8. Permeable base within the excavation shall be lined on the sides and bottom with filter fabric. The top shall not be lined with filter fabric.



Notes:

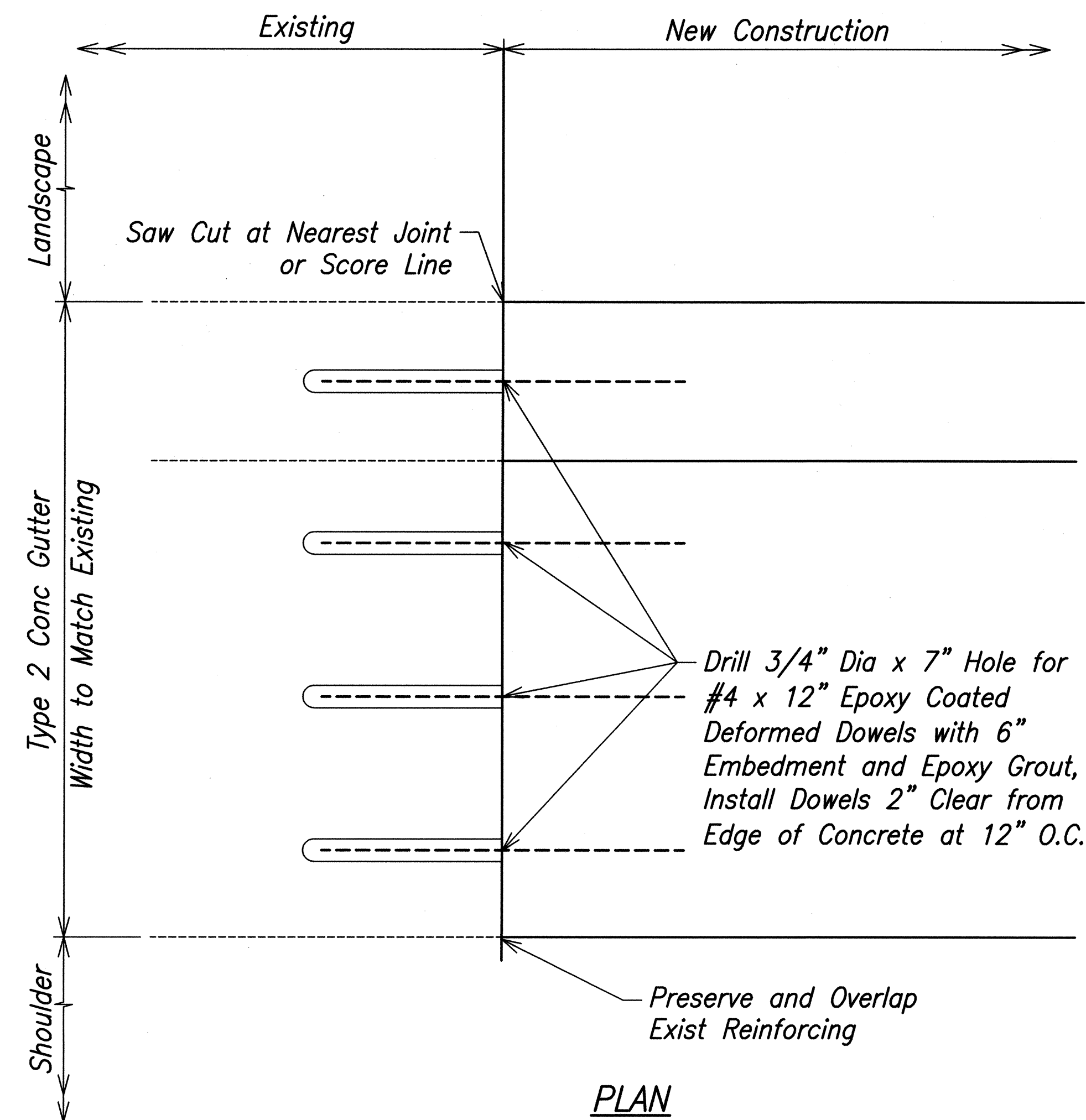
1. See Detail 1/Sheet C-11 for rigid pavement restoration construction joint details.
2. See this sheet for Special Notes for P.C.C. Pavement Restoration with Permeable Base.
3. Dowels not required for connection to AC Pavement.
4. Existing 6-inch diameter perforated underdrain pipe under existing shoulder not shown for clarity. Contractor to protect existing underdrain pipe during construction. Contractor shall replace damaged underdrain pipe at no additional cost to the satisfaction of the Engineer.

2
C-05 C-11
C-06
PBMP B @ STA. 0+34.33 TO STA. 0+64.44 TRENCH DETAIL
Scale: 1/2"=1'-0"

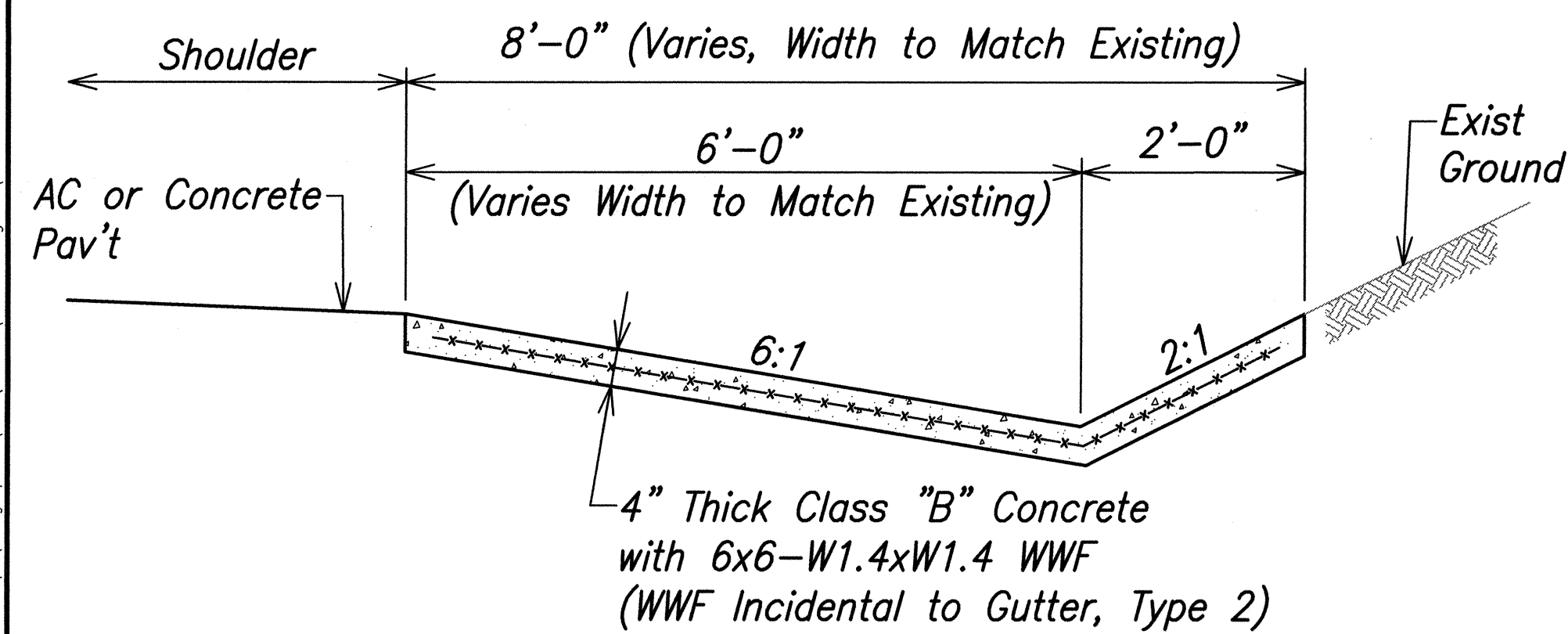


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS DETAILS-2
MISCELLANEOUS PERMANENT BEST MANAGEMENT PRACTICES, PHASE 2A
Project No. HWY-0-01-15
Scale: As Shown Date: April 2016
SHEET No. C-11 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-01-15	2016	28	52

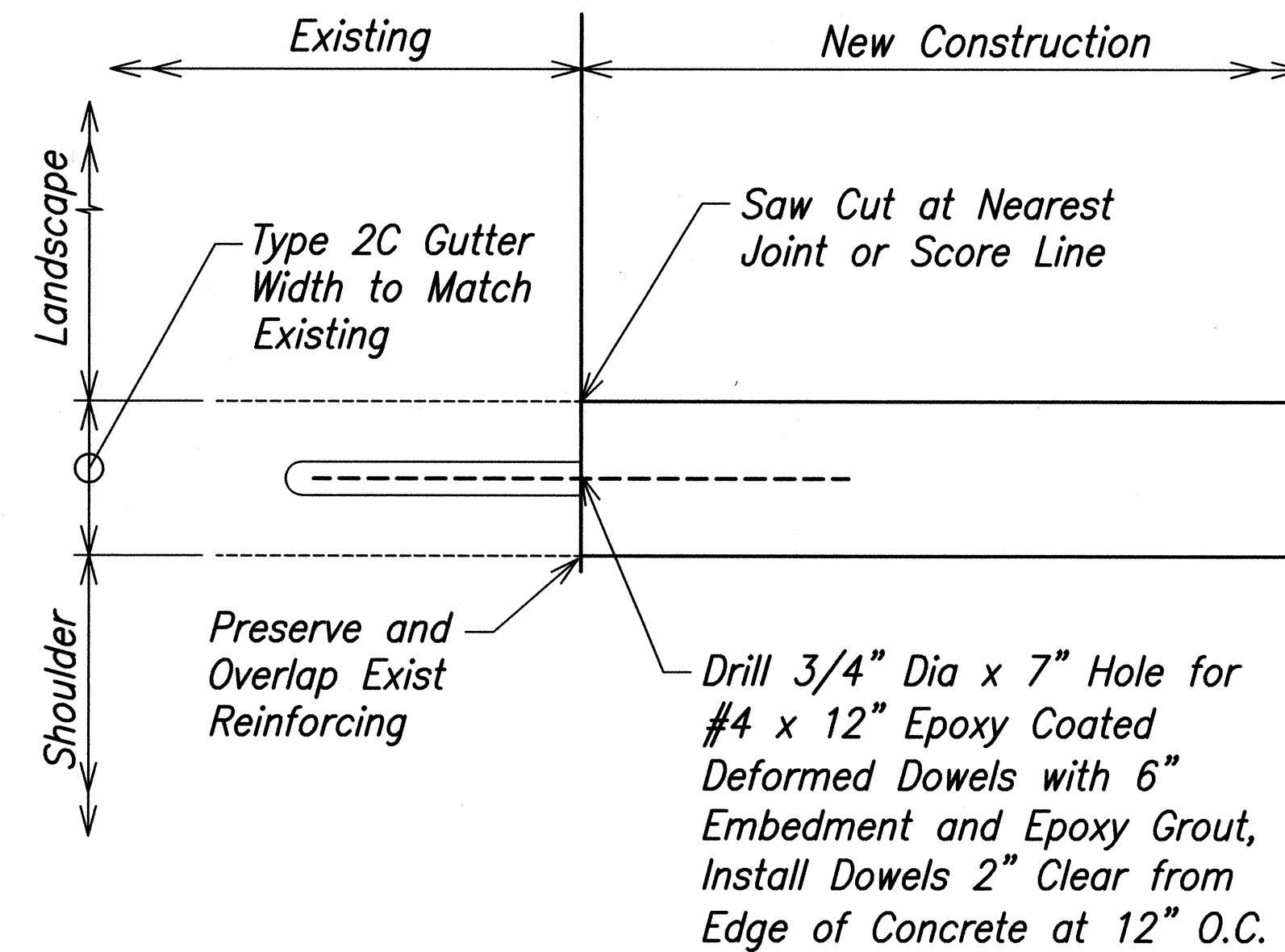


PLAN

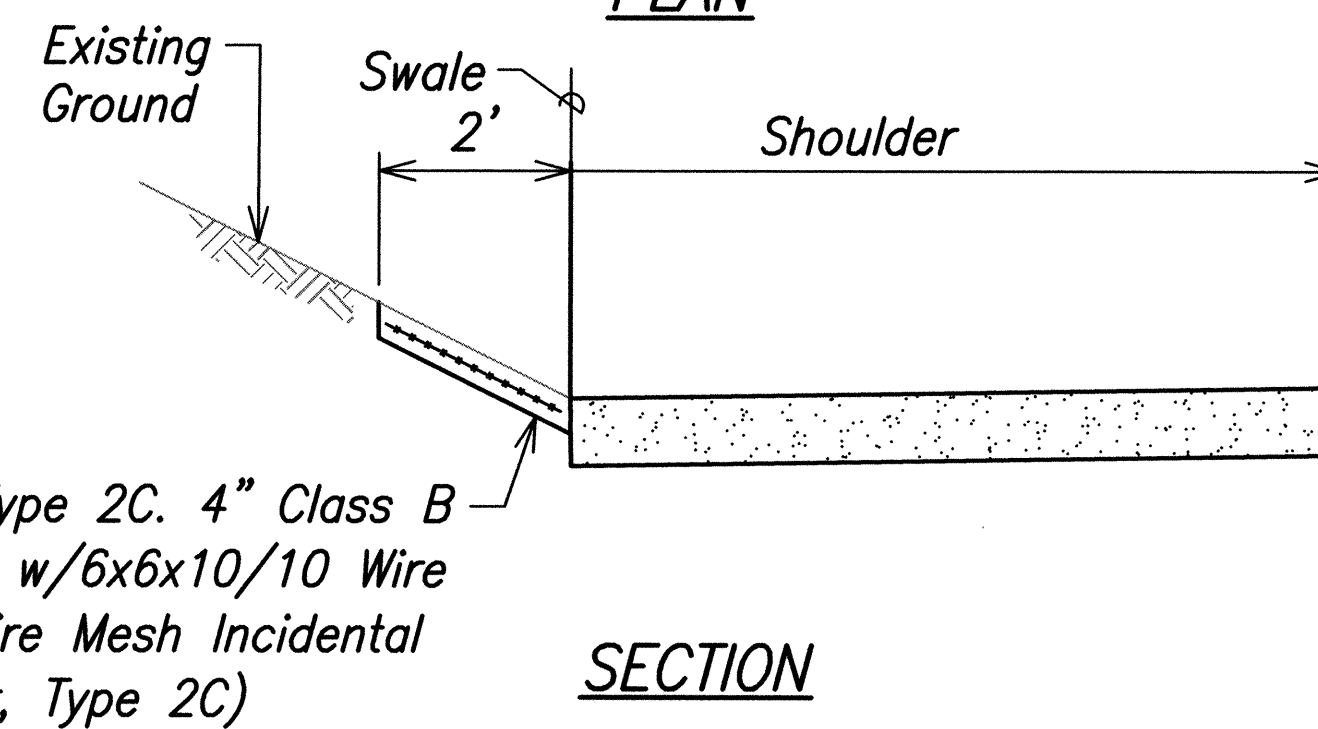


SECTION

CONCRETE GUTTER, TYPE 2 RESTORATION DETAIL
Scale: 3/4"=1'-0"

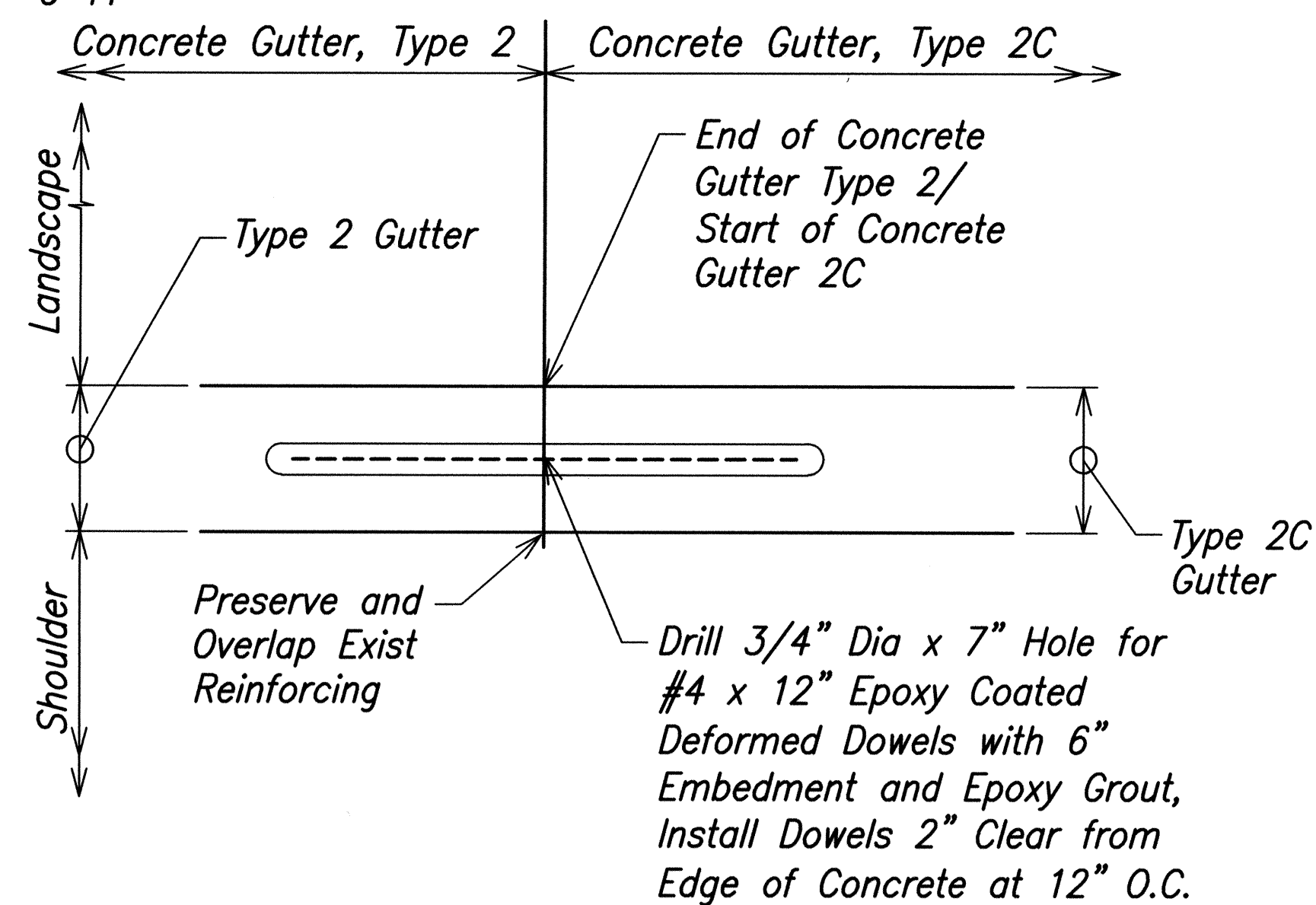


PLAN

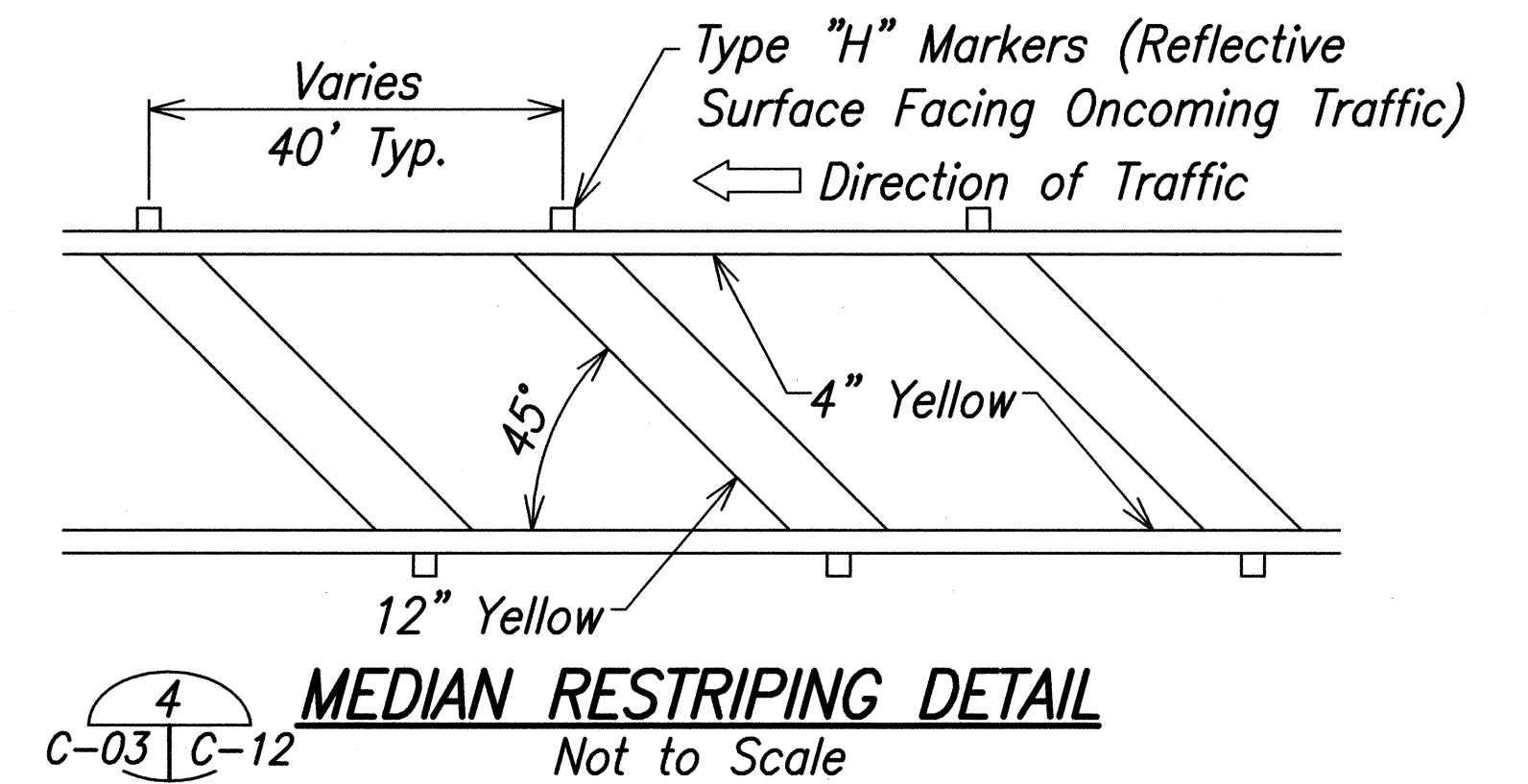


SECTION

CONCRETE GUTTER, TYPE 2C RESTORATION DETAIL
Scale: 1/2"=1'-0"



CONCRETE GUTTER CONNECTION DETAIL
Scale: 1/2"=1'-0"



ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NO.	

\\hawaii\share\civil\dot highway\2013\00400 oahu miscellaneous bma\04 graphics\CAD Sheets\Bid Package - 1\C-12 Misc Details - 3.dwg

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS-3

**MISCELLANEOUS PERMANENT
BEST MANAGEMENT PRACTICES, PHASE 2A**

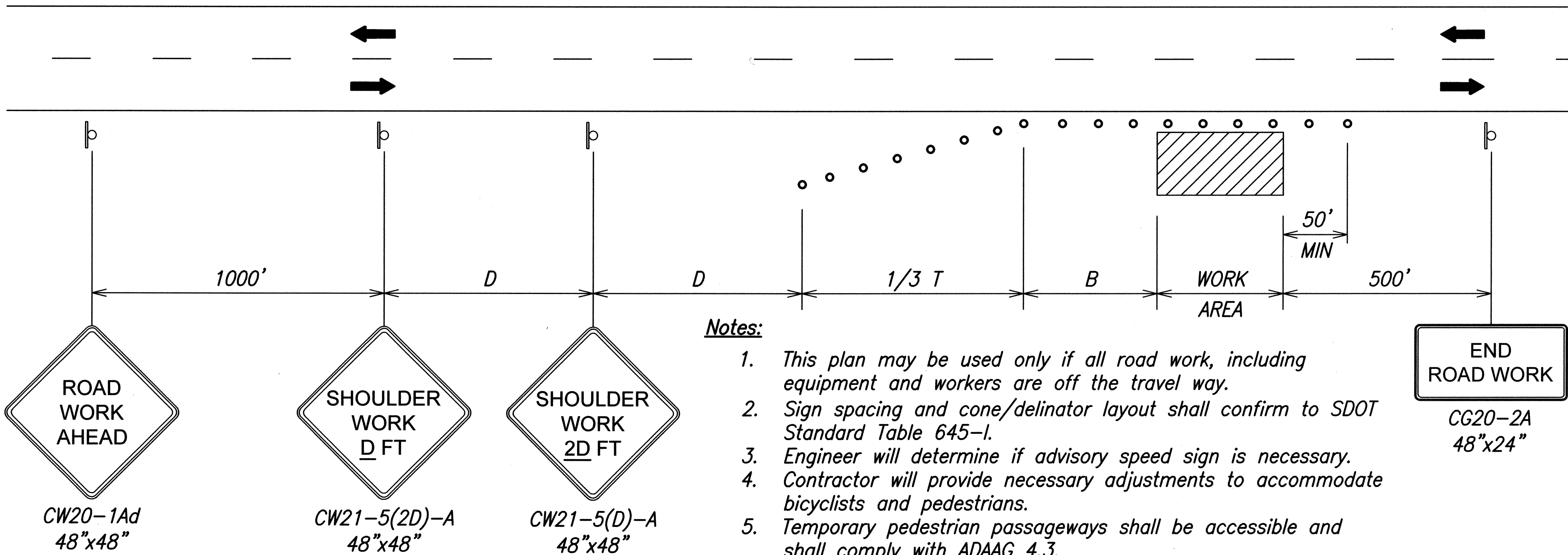
Project No. HWY-0-01-15

Scale: As Shown Date: April 2016

SHEET No. C-12 OF 22 SHEETS

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

- The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
- Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
- Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of the work.
- Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
- When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the traffic control plans.
- Sign spacing (L), taper lengths (T) and spacings of cones or delineators shall be as shown in Table 1 of Section 645 in the Specifications, unless otherwise noted on the HDOT's Traffic Control Plans.
- All traffic lanes shall be a minimum of 10 feet wide.
- All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
- At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
- Replace permanent pavement markings and traffic signs upon completion of each phase of work.
- All work zone traffic control devices shall comply with the "Statewide Guideline for Work Zone Traffic Control Devices" dated September 13, 2000 and be compliant with Chapter 6 of the MUTCD.



- Notes:
- This plan may be used only if all road work, including equipment and workers are off the travel way.
 - Sign spacing and cone/delineator layout shall confirm to SDOT Standard Table 645-1.
 - Engineer will determine if advisory speed sign is necessary.
 - Contractor will provide necessary adjustments to accommodate bicyclists and pedestrians.
 - Temporary pedestrian passageways shall be accessible and shall comply with ADAAG 4.3.
 - CW20-1AD sign required for posted speed limit of 45 mph or greater.
 - Signing is not required if the work area including equipment and workers, is outside the clear zone distance as specified in the latest AASHTO roadside design guide.
 - For work in opposite shoulder, reverse traffic control plan.

TYPICAL TRAFFIC CONTROL PLAN-SHOULDER WORK
(FOR STATE ROADS)
Not To Scale

- Legend:
- Cone or Delineator
 - Direction of Traffic
 - Sign
 - Work Zone
 - Flashing Arrow Signal
 - Police Officer

TABLE 645-1 - FOR TRAFFIC CONTROL PLAN WITHIN STATE ROW							
Posted Speed Limit (m.p.h.)	Sign Spacing (D) (feet)	Taper Length (T) (feet)		Longitudinal Buffer Space (B) (feet)	Spacing of Cones or Delineators (feet)		
		W=12' or Less*	W=Greater Than 12'*		Taper	Tangent	Work Area
20	250	200	W X 17	35	20	20	10
25	250	200	W X 17	55	30	30	10
30	250	250	W X 20	85	30	30	10
35	250	250	W X 20	120	35	35	10
40	500	350	W X 30	170	40	40	10
45	500	550	W X 45	220	45	45	10
50	1000	600	W X 50	280	50	50	10
55	1000	700	W X 55	335	55	55	10

* W = WIDTH OF LANE OR SHOULDER

JAY M. K. STONE

LICENSED PROFESSIONAL ENGINEER

No. 9548-C

HAWAII, U.S.A.

4/30/18

EXP DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

NOTES AND LEGEND

MISCELLANEOUS PERMANENT

BEST MANAGEMENT PRACTICES, PHASE 2A

Project No. HWY-0-01-15

Scale: None

Date: April 2016

SHEET No. C-13 OF 22 SHEETS

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

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