

APPROACH SLAB CONNECTION

Not To Scale

FED. ROAD DIST. NO. FED. AID PROJ. NO. FISCAL SHEET YEAR NO. 2010 NH-030-1(38) 16 213 20' Access Easement 4'-0" 12'-0" 4'-0" Gravel Access Road 2% ---> -Finish Grade

-6" Aggregate Subbase

TYPICAL GRAVEL ACCESS ROAD DETAIL Not To Scale

NOTES:

4" A.C. Pavement (Mix IV)

-6" Aggregate Subbase

-Prime Coat

-8" Glassphalt Base Course

- The dimensions shown are for a 12 foot wide travel way lane width. For other lane widths adjust the transverse joint spacing to obtain a length to width ratio of not greater than 1.25 for the travel way lane slabs.
- 2. For travel way lanes, reinforce odd shaped slabs and slabs with mismatched joints. Odd shaped slabs are slabs with length to width ratios greater than 1.25, and other nonsquare shaped slabs. See sheet D-20 of the State Standard Plans. Triangular shaped slabs are considered odd-shaped slabs.
- For the shoulder, reinforcing is not required for slabs that exceed the length to width ratio of 1.25. Triangular shaped slabs shall have reinforcing.
- Locate transverse construction joints at a minimum distance of ten (10) feet and a maximum of fifteen (15) feet from the nearest planned contraction joint.
- 5. Provide shop drawings for joint layout where obstructions such as manholes are encountered, and at intersections with other streets.
- Portland cement concrete pavement shall attain a minimum 14-day flexural strength, fr = 650 psi.

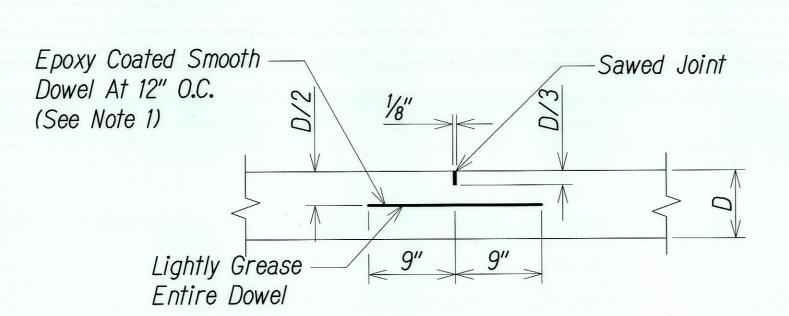


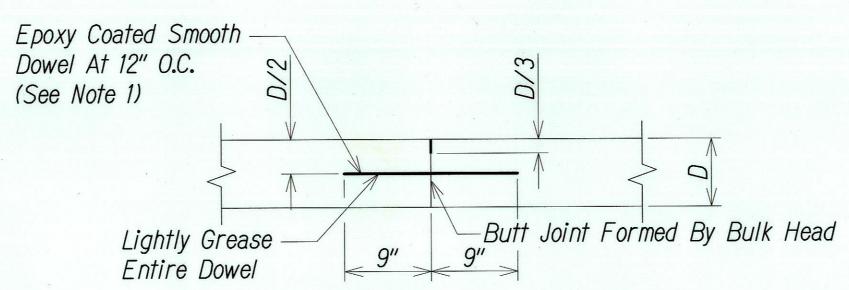
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

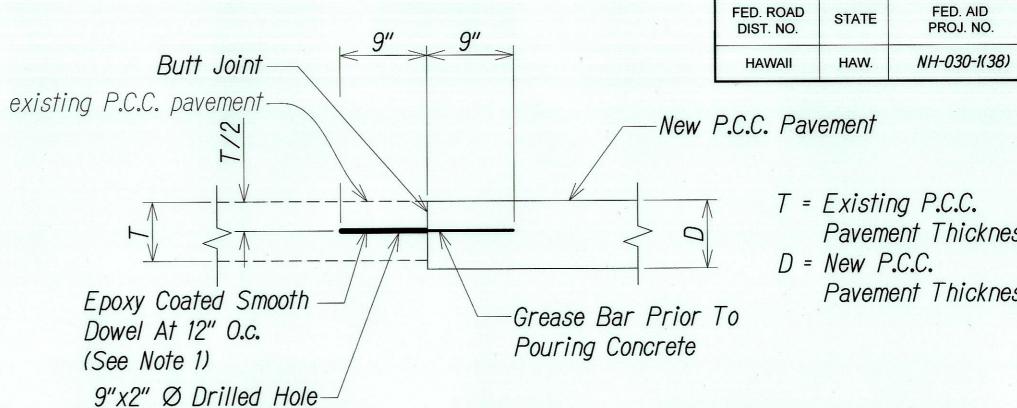
PAVEMENT CONNECTION DETAILS

HONOAPIILANI HIGHWAY REALIGNMENT, PHASE 1B-1 Lahainaluna Rd. to Hokiokio Pl. Federal Aid Project NO. NH-030-1(38) Scale: As Shown Date: November 23, 2009

SHEET No. 1 OF 3 SHEETS







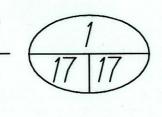
T = Existing P.C.C. Pavement Thickness. D = New P.C.C. Pavement Thickness.

FISCAL SHEET TOTAL YEAR NO. SHEETS

2010

SHEETS

TRANSVERSE CONTRACTION JOINT FOR PERPENDICULAR JOINTS Not To Scale



TRANSVERSE CONSTRUCTION JOINT Not To Scale

Filled With Epoxy Grout

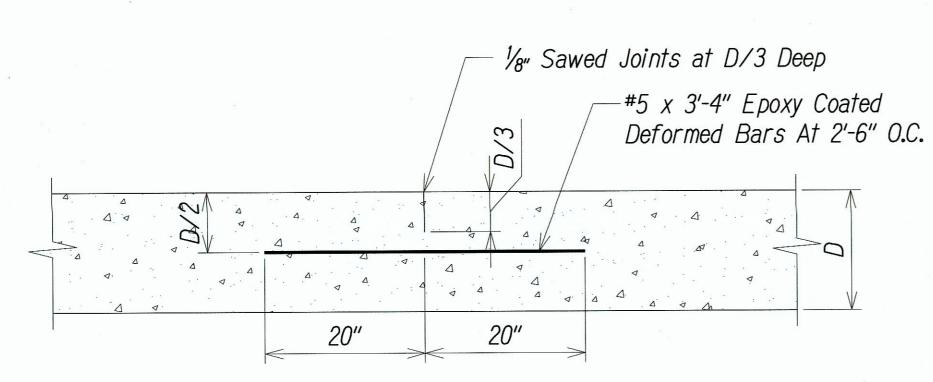
TRANSVERSE CONSTRUCTION JOINT AT EXISTING P.C.C. PAVEMENT

Not To Scale

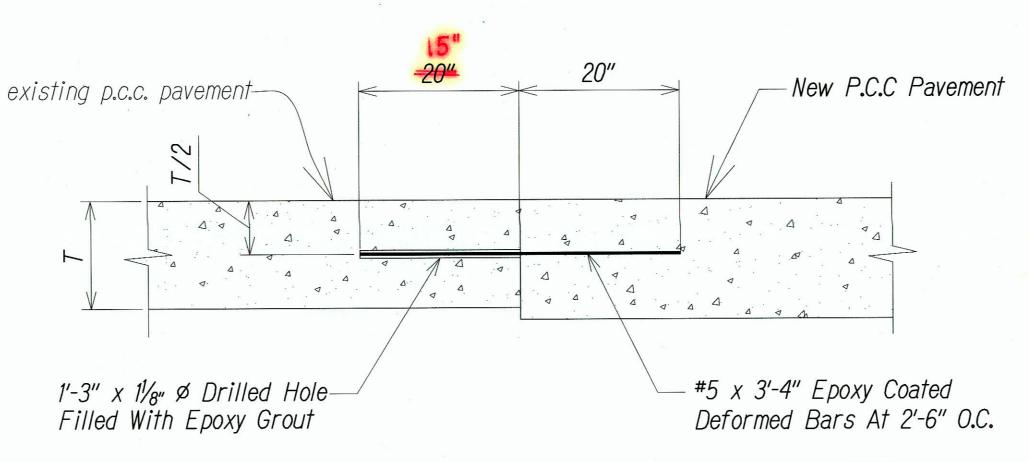


TRANSVERSE JOINT NOTES:

- Epoxy coated dowels shall conform to AASHTO M284 (ASTM A 775). For pavements with d<10", use 1 1/4" dia. x 1'-6" long dowels. for pavements with d>10", use 1 1/2" dia. x 1'-6" long dowels.
- 2. Transverse construction joints shall be located at a minimum distance of 10 feet from the nearest transverse construction joint. Joint shall be perpendicular to paving lane.
- 3. 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 dowels shall not deviate more than 0.01' from the parallel in 9" length.
- See Typical Joint Location and Layout Plan for Transverse Joint Spacing.
- 5. The Contractor shall not damage the epoxy coating on the dowel in any way during shipment, handing, or placement. Damaged epoxy coated dowels shall be replaced at no cost to the State.





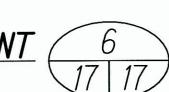


LONGITUDINAL CONSTRUCTION JOINT AT EXISTING P.C.C. PAVEMENT Not to Scale

1/8" Sawed Joints at D/3 Deep #5 x 3'-4" Epoxy Coated — Deformed Bars At 2'-6" O.C.

LONGITUDINAL CONSTRUCTION JOINT

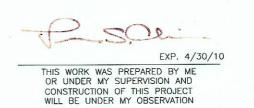
Not to Scale



LONGITUDINAL JOINT NOTES:

- Epoxy Coated Deformed Bars shall conform to AASHTO M 284M/M 284-03 and ASTM A 775/A 775M-01.
- Tiebars are to be located minimum distance of 18 inches from a transverse joint. Tiebars closer to the transverse joint may interfere with joint movement.
- 3. The Contractor shall not damage the epoxy coating on the deformed bars in any way during shipment, handling, on placement. Damaged epoxy coating shall be repaired at no cost to the state.
- 4. If fresh portland cement concrete is poured adjacent to existing portland cement concrete joint does not need to be rounded to 1/4" radius, as shown.





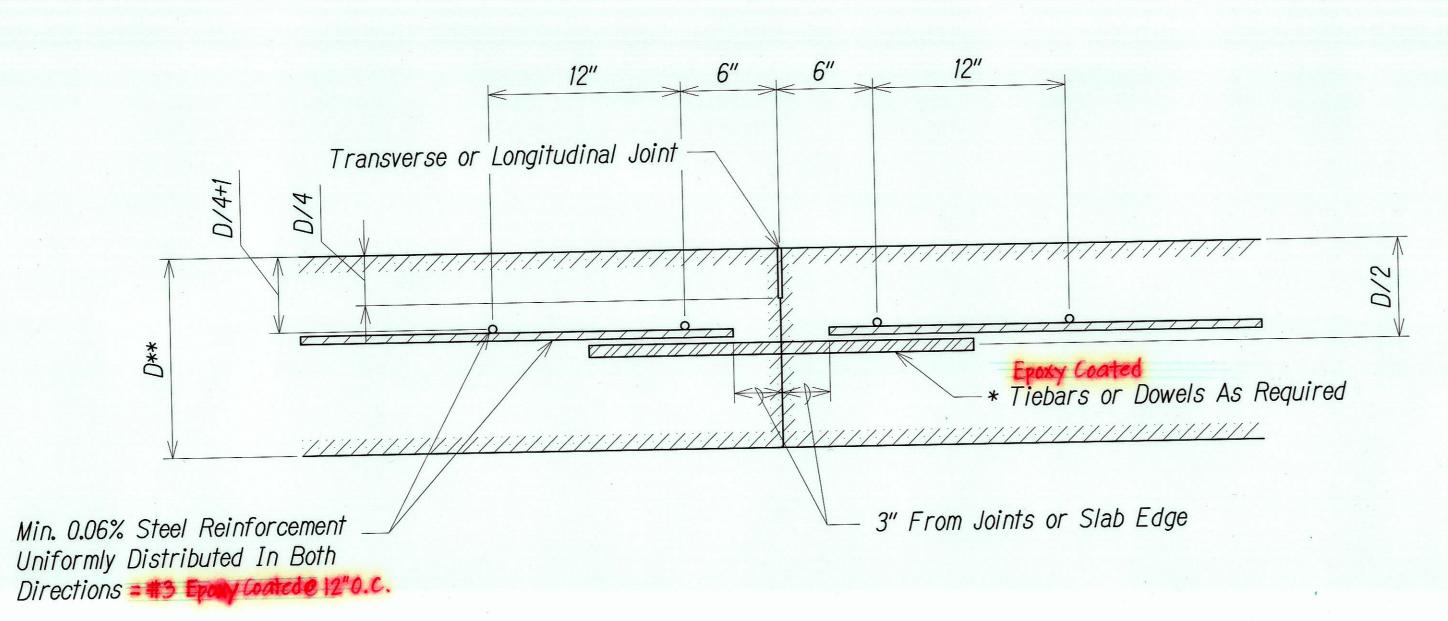
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

P.C.C PAVEMENT DETAILS

HONOAPIILANI HIGHWAY REALIGNMENT, PHASE 1B-1 Lahainaluna Rd. to Hokiokio Pl. Federal Aid Project NO. NH-030-1(38) Date: November 23, 2009 Scale: As Shown

SHEET No. 2 OF 3 SHEETS

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	18	213

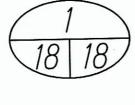


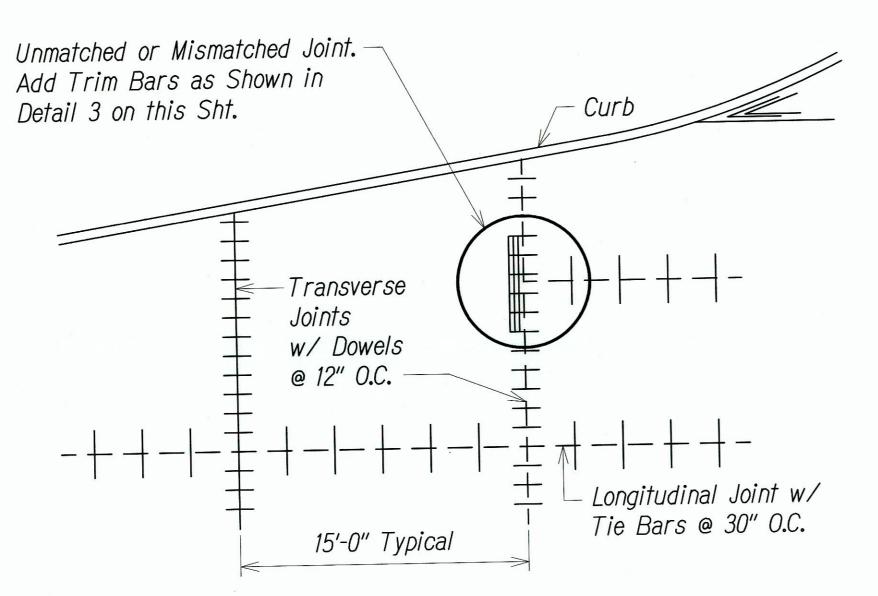
* NOTES:

- 1. Dowels are used for perpendicular joint pattern and transverse construction joint.
- 2. Use tiebars for longitudinal joint.
- 3. For dowel or tiebar details and joint construction details, see applicable transverse or longitudinal joint details.
- 4. Adjust placement of reinforcing bars to avoid interfering with movement of the dowels.

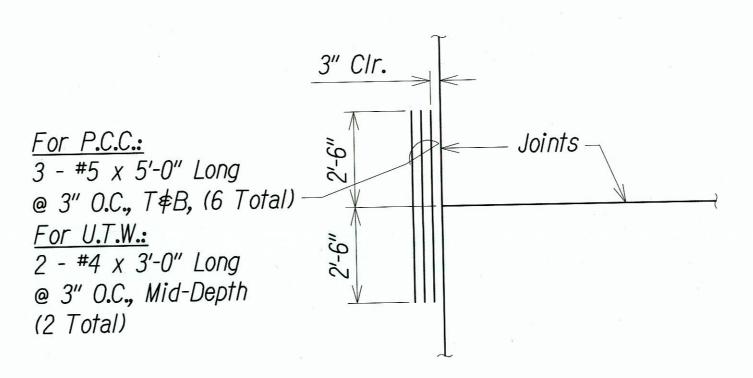
**D Equals The P.C.C Pavement Thickness

REINFORCEMENT TYPICAL SECTION (FOR ASYMMETRICAL SLABS Not to Scale





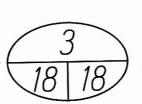




TYPICAL TRIM BAR DETAIL AT

UNMATCHED OR MISMATCHED JOINTS

Not to Scale





STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

P.C.C PAVEMENT DETAILS

HONOAPIILANI HIGHWAY REALIGNMENT, PHASE 1B-1

Lahainaluna Rd. to Hokiokio Pl.

Federal Aid Project NO. NH-030-1(38)

Scale: As Shown Date: November 23, 2009

SHEET No. 3 OF 3 SHEETS