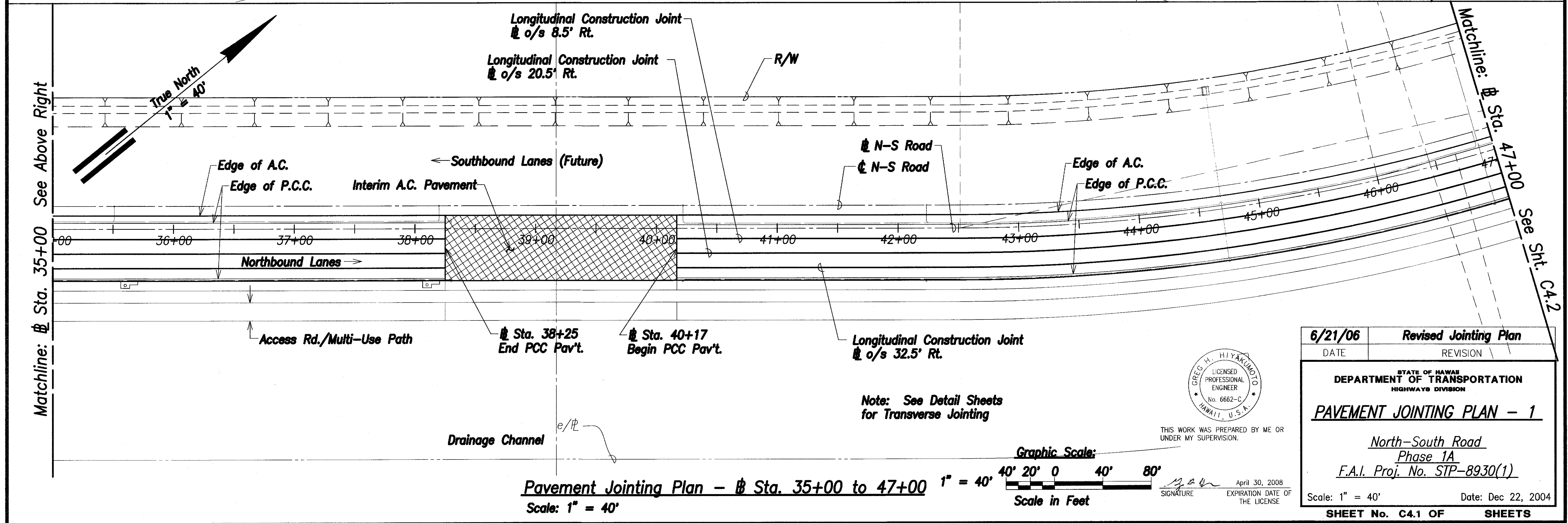
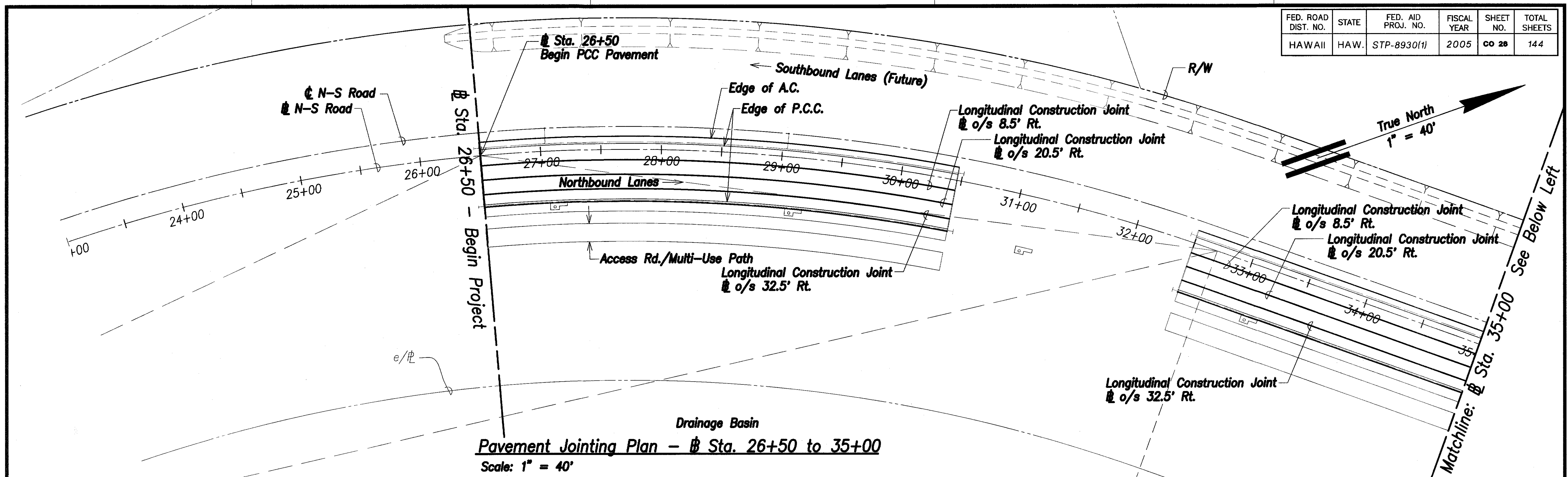
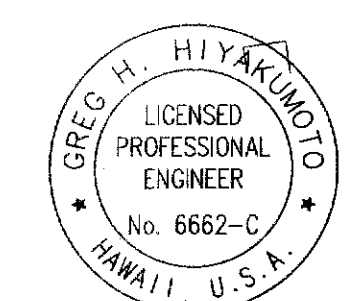


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	CO 26	144



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: April 30, 2008

6/21/06	Revised Jointing Plan
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

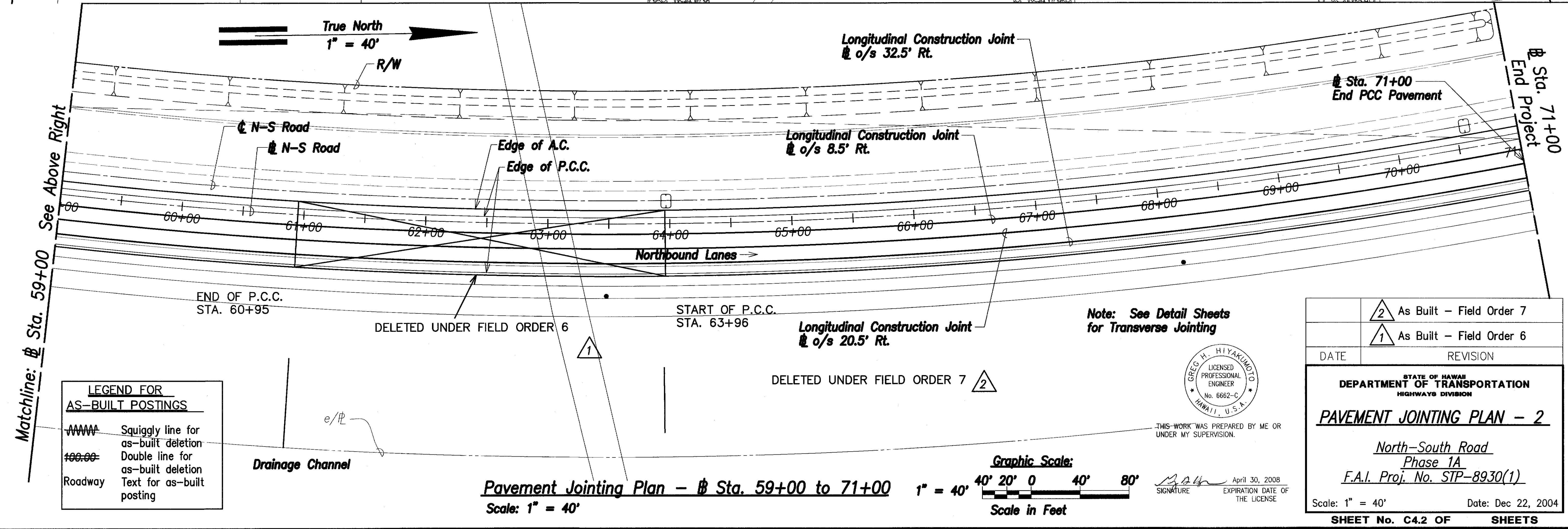
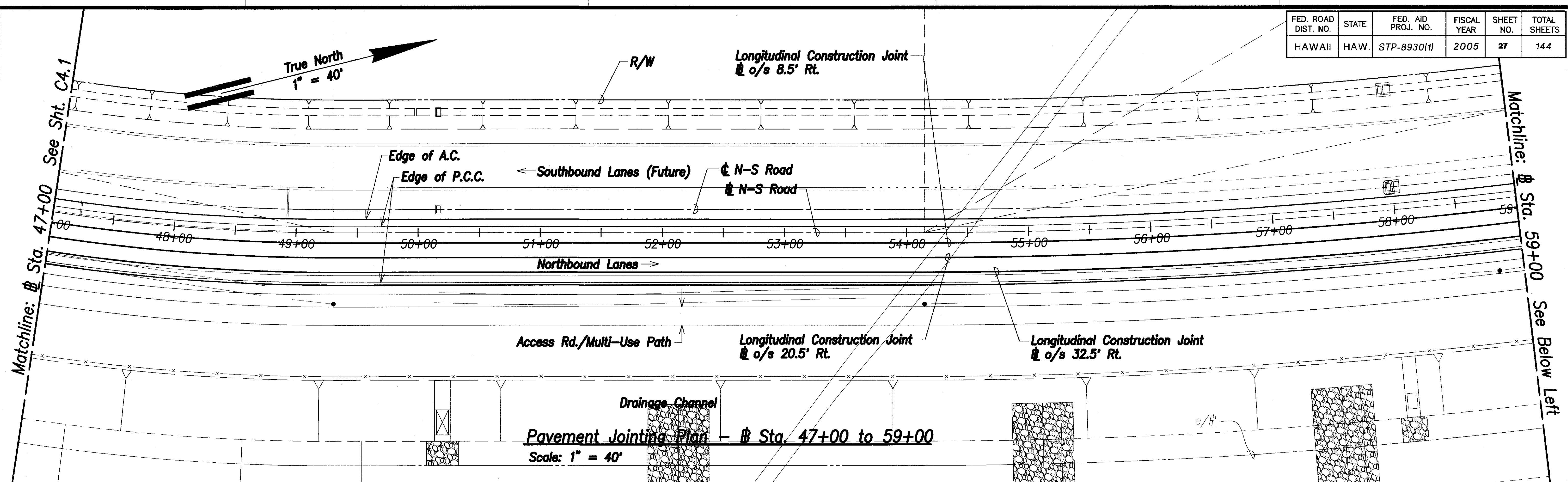
PAVEMENT JOINTING PLAN - 1

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: 1" = 40' Date: Dec 22, 2004

SHEET No. C4.1 OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	27	144



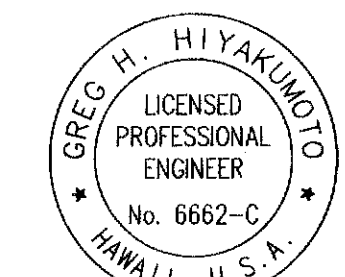
LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion

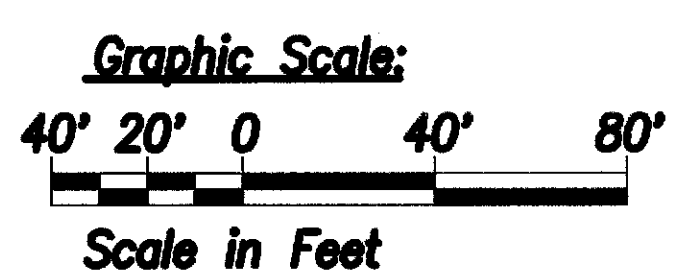
===== Double line for as-built deletion

Text for as-built posting

Note: See Detail Sheets for Transverse Jointing



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|      |                          |
|------|--------------------------|
| 2    | As Built - Field Order 7 |
| 1    | As Built - Field Order 6 |
| DATE | REVISION                 |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT JOINTING PLAN - 2**

North-South Road  
Phase 1A  
F.A.I. Proj. No. STP-8930(1)

Scale: 1" = 40' Date: Dec 22, 2004

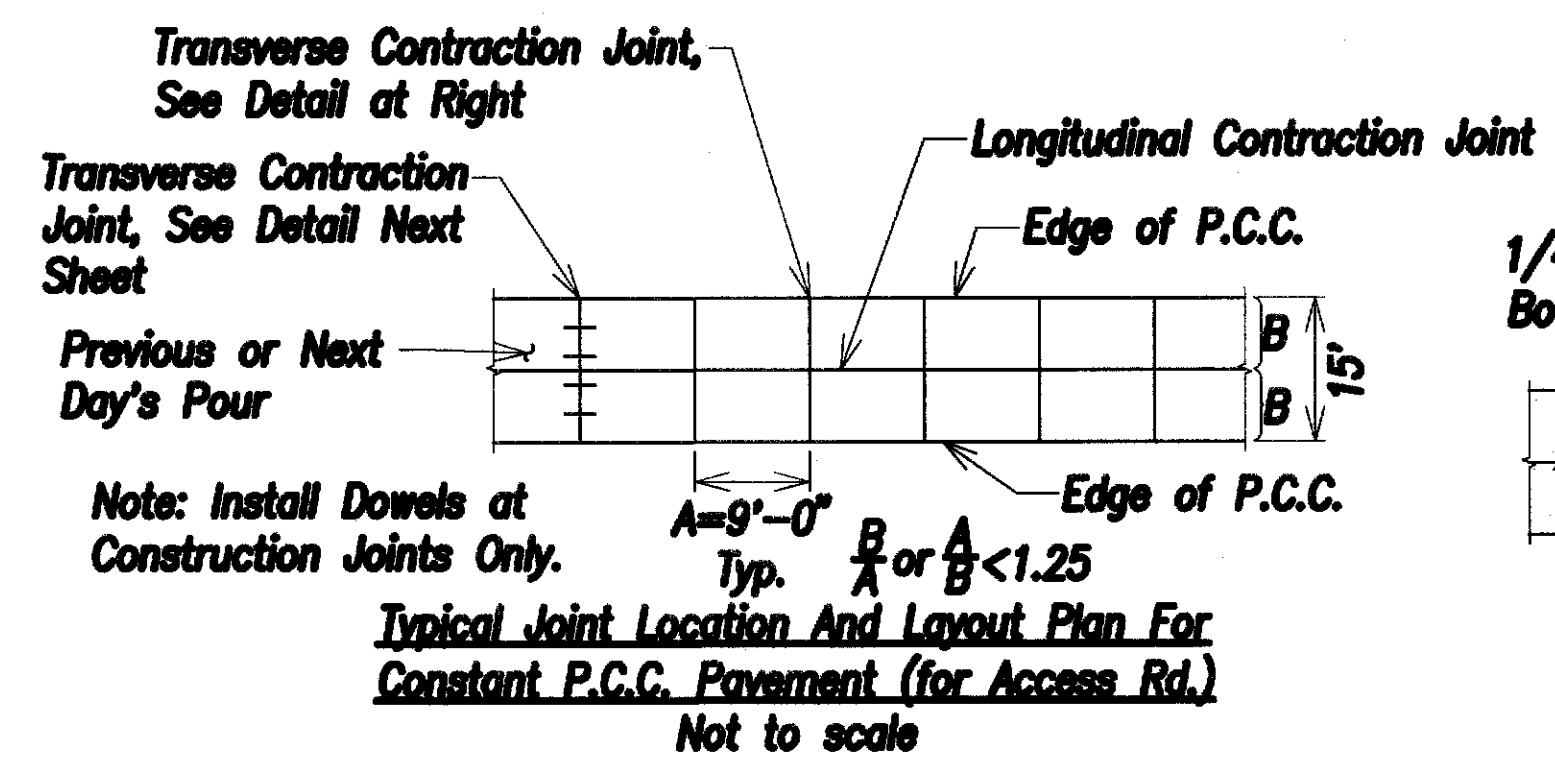
SHEET No. C4.2 OF SHEETS

|             |  |
|-------------|--|
| DATE        |  |
| DESIGNED BY |  |
| DRAWN BY    |  |
| CHECKED BY  |  |
| IN CHARGE   |  |
| APPROVED BY |  |

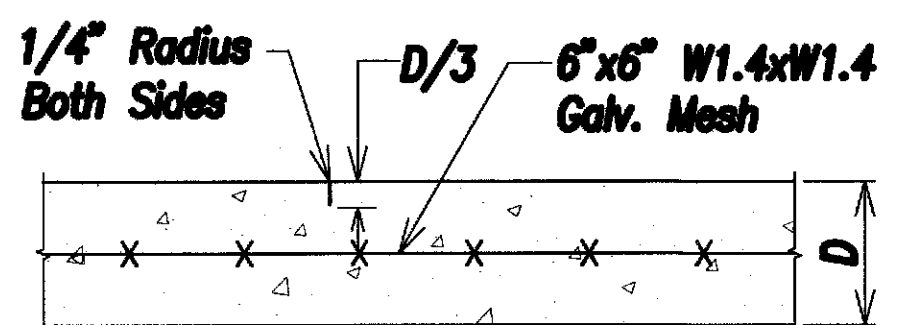
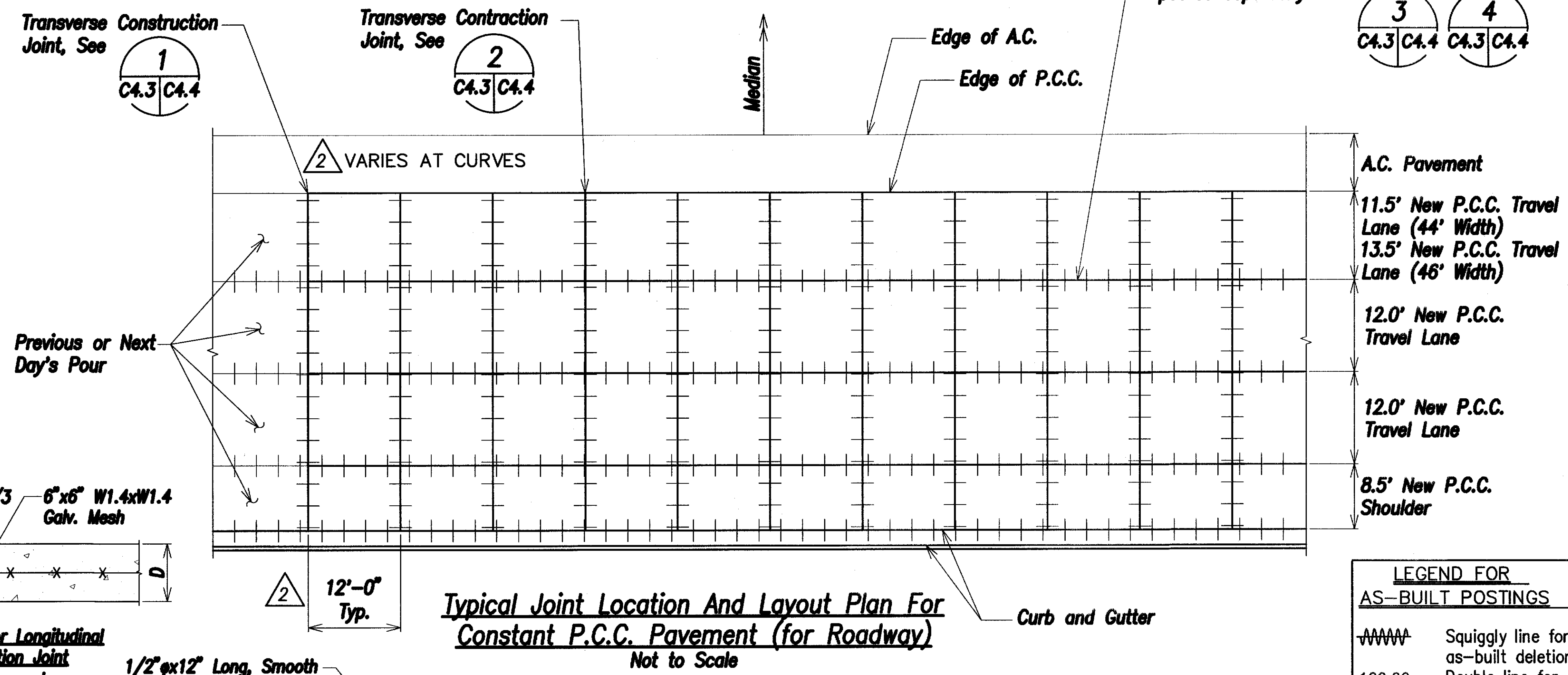
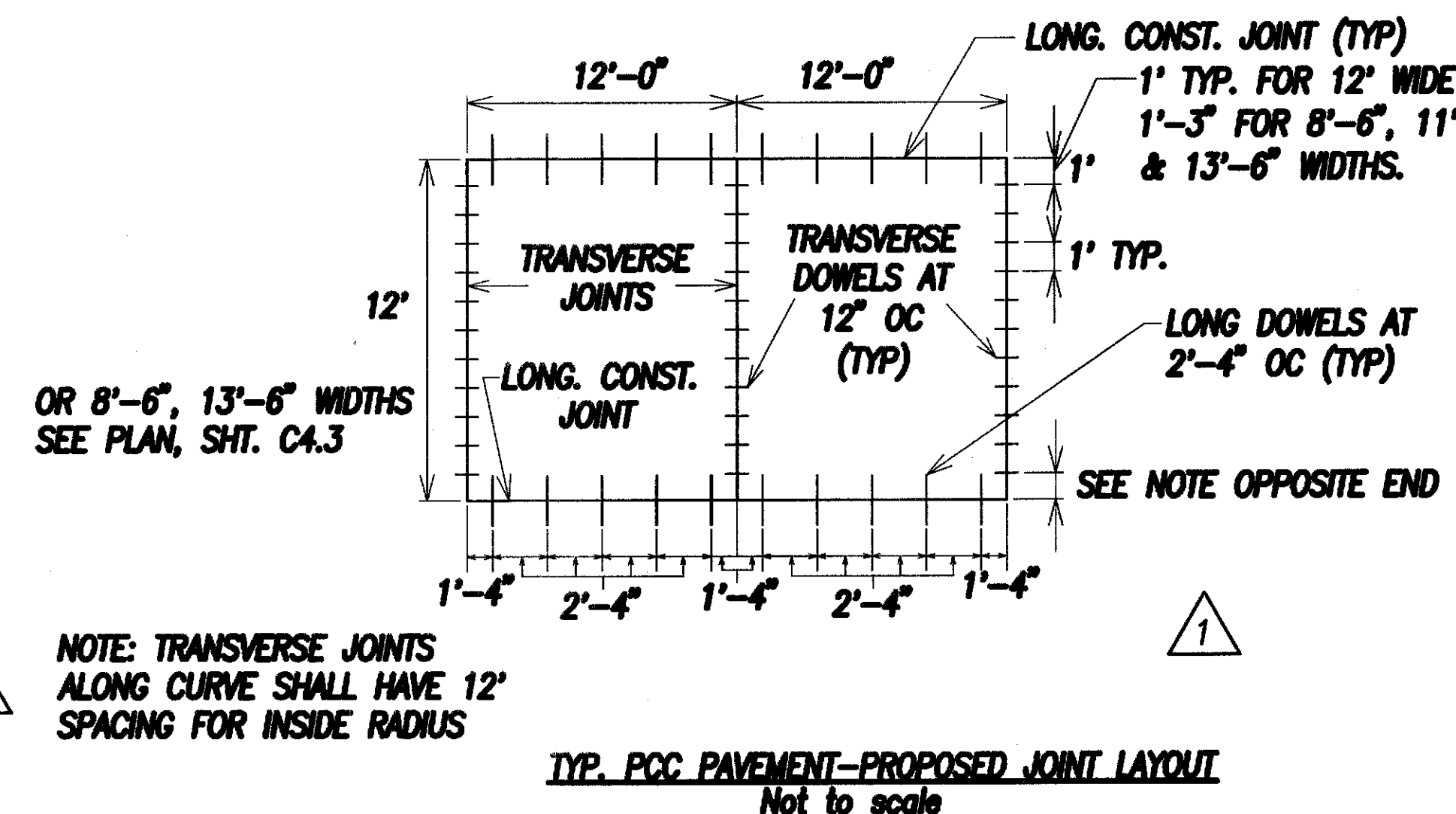
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(1)        | 2005        | 28        | 144          |

**Jointing Notes:**

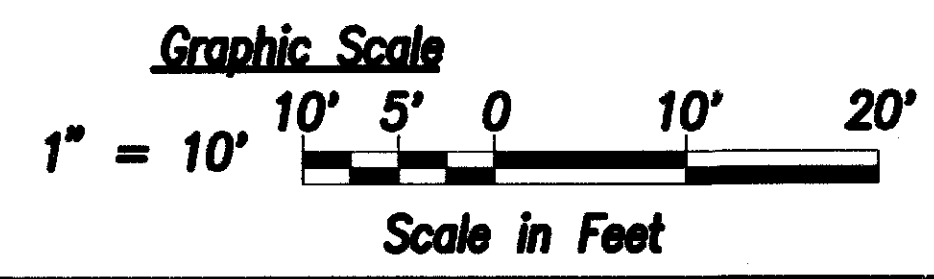
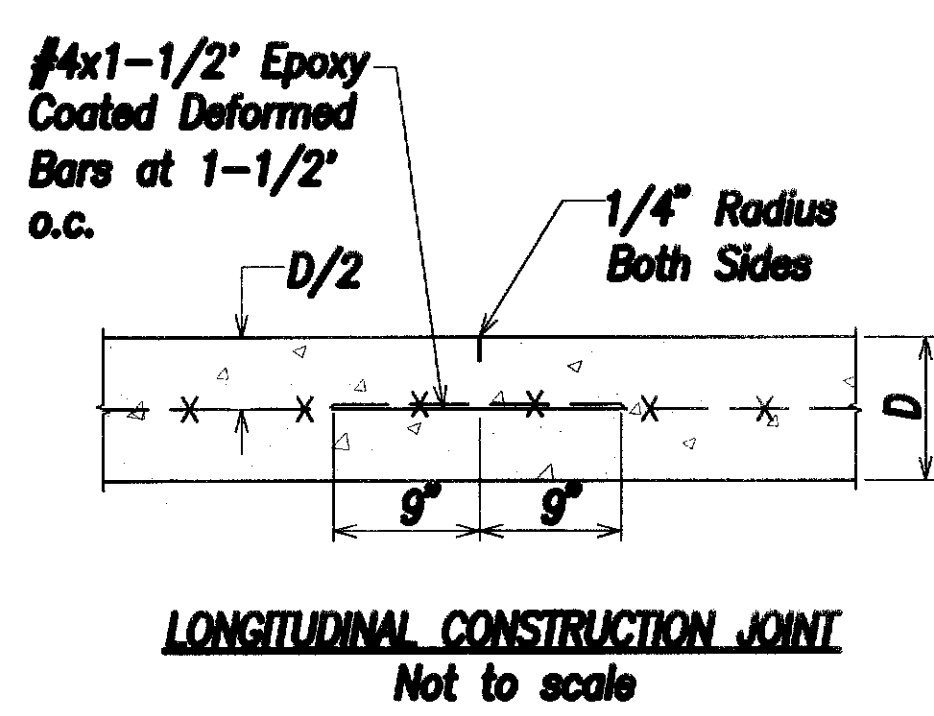
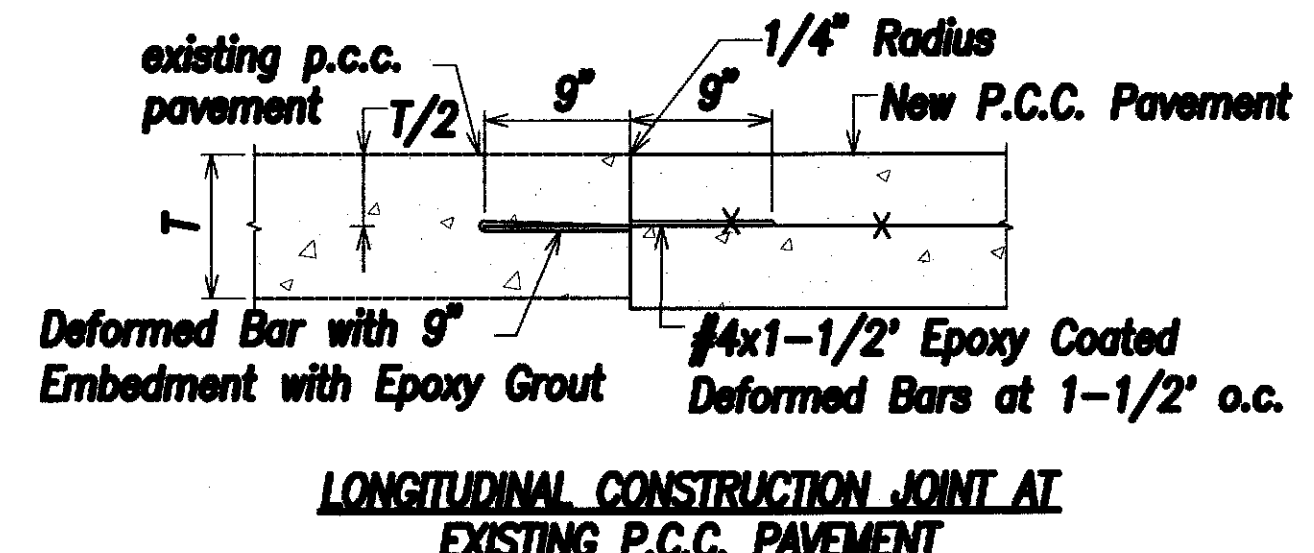
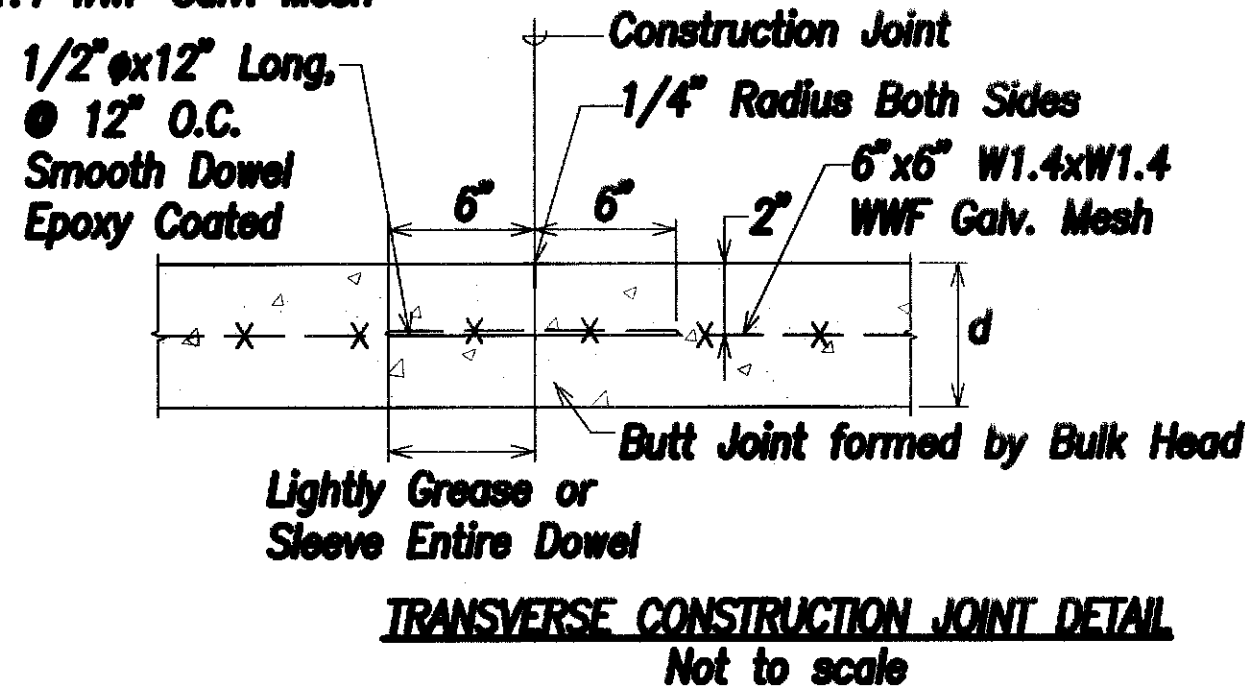
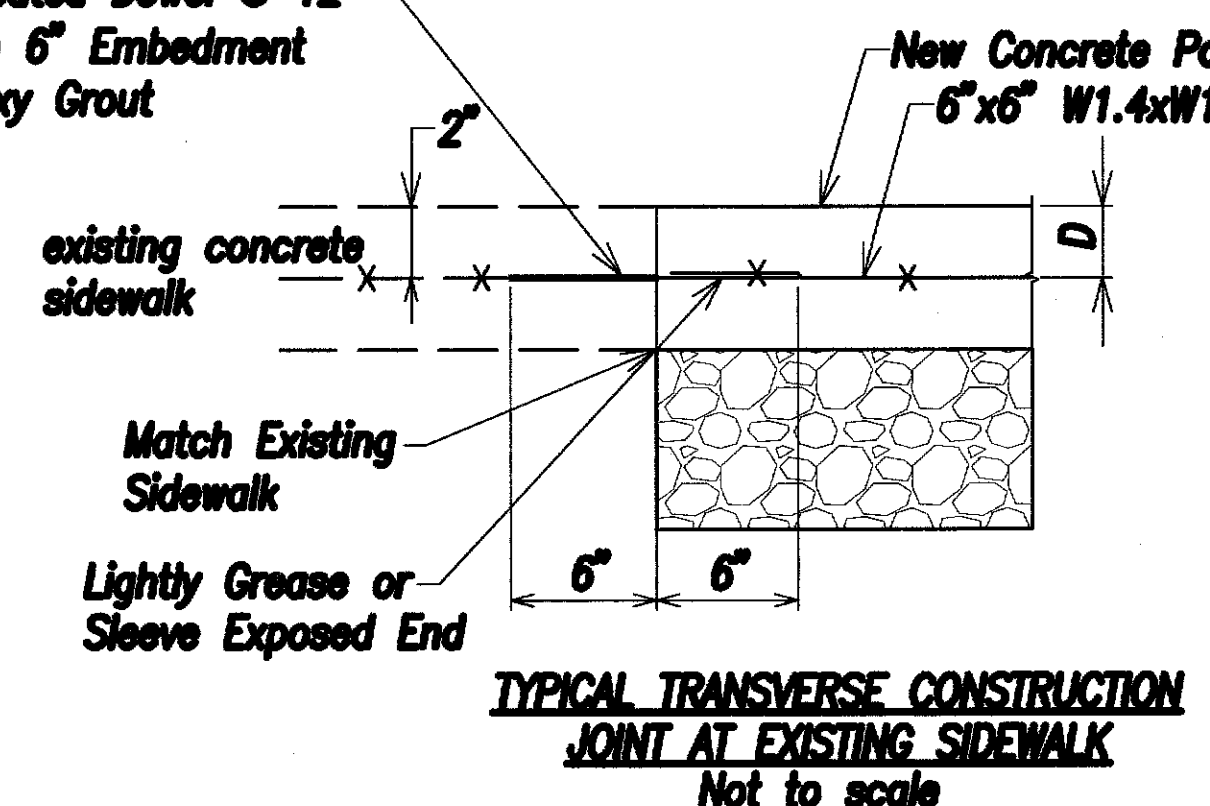
1. All new P.C.C. pavements shall be provided with permeable base course with longitudinal underdrains.
2. Space transverse joint at successive intervals as shown on the plan.
3. Locate transverse construction joints at the planned transverse contraction joint as shown on the jointing plan.
4. Provide shop drawings for joint layout where obstructions such as manholes are encountered, gore areas, termination of concrete with triangular or odd shaped slabs, and at intersections with other streets.
5. For other joint requirements, see Section 411 - Portland Cement Concrete Pavement.
6. For locations of Longitudinal Joints, see Pavement Jointing Plans.



**Typical Joint Location And Layout Plan For Constant P.C.C. Pavement (for Access Rd.)**  
Not to Scale

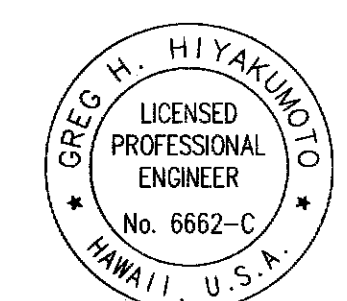


1/2"x12" Long, Smooth Epoxy Coated Dowel @ 12" O.C. with 6" Embedment with Epoxy Grout



**LEGEND FOR AS-BUILT POSTINGS**

|         |                                     |
|---------|-------------------------------------|
| ~~~~~   | Squiggly line for as-built deletion |
| ==      | Double line for as-built deletion   |
| Roadway | Text for as-built posting           |



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SIGNATURE: [Signature] April 30, 2008 EXPIRATION DATE OF THE LICENSE

|         |              |                   |
|---------|--------------|-------------------|
| 8/30/06 | <div>2</div> | As Built – RFI 43 |
| 6/29/06 | <div>1</div> | As Built – RFI 31 |
| DATE    | REVISION     |                   |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

Pavement Details – 1

North-South Road

Phase 1A

F.A.I. Proj. No. STP-8930(1)

Not to Scale

Date: Dec 22, 2004

SHEET No. C4.3 OF

SHEETS



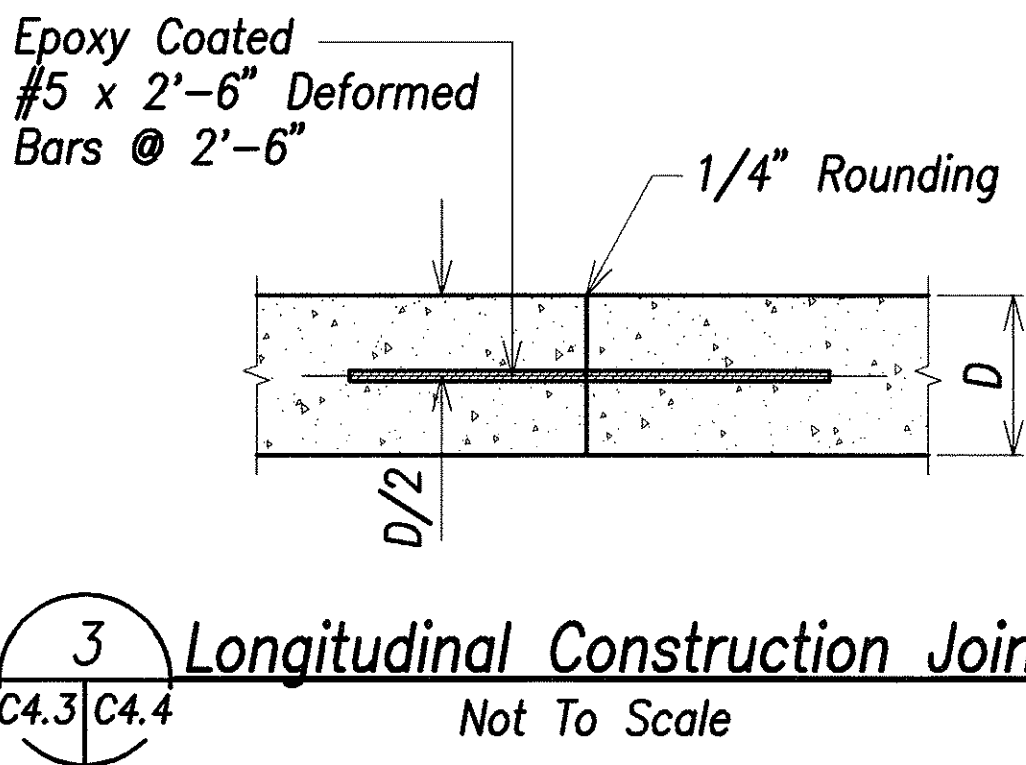
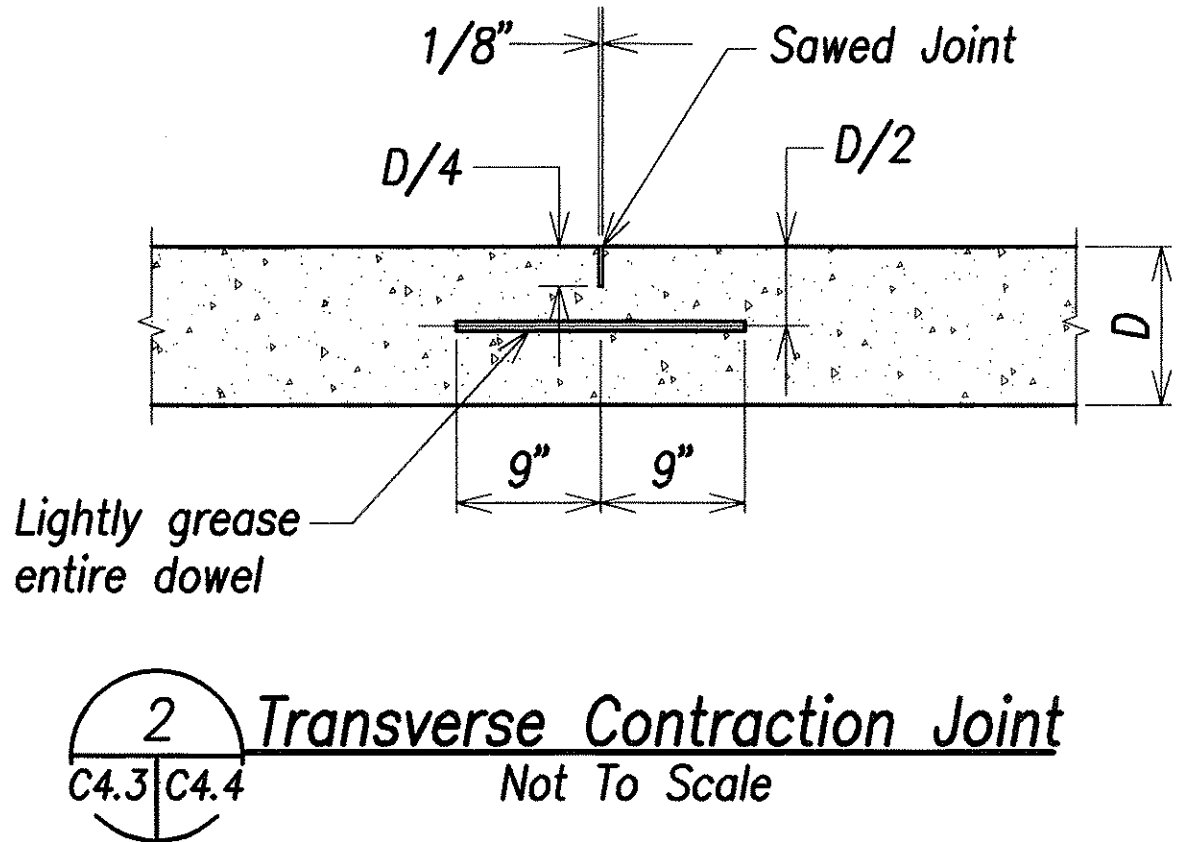
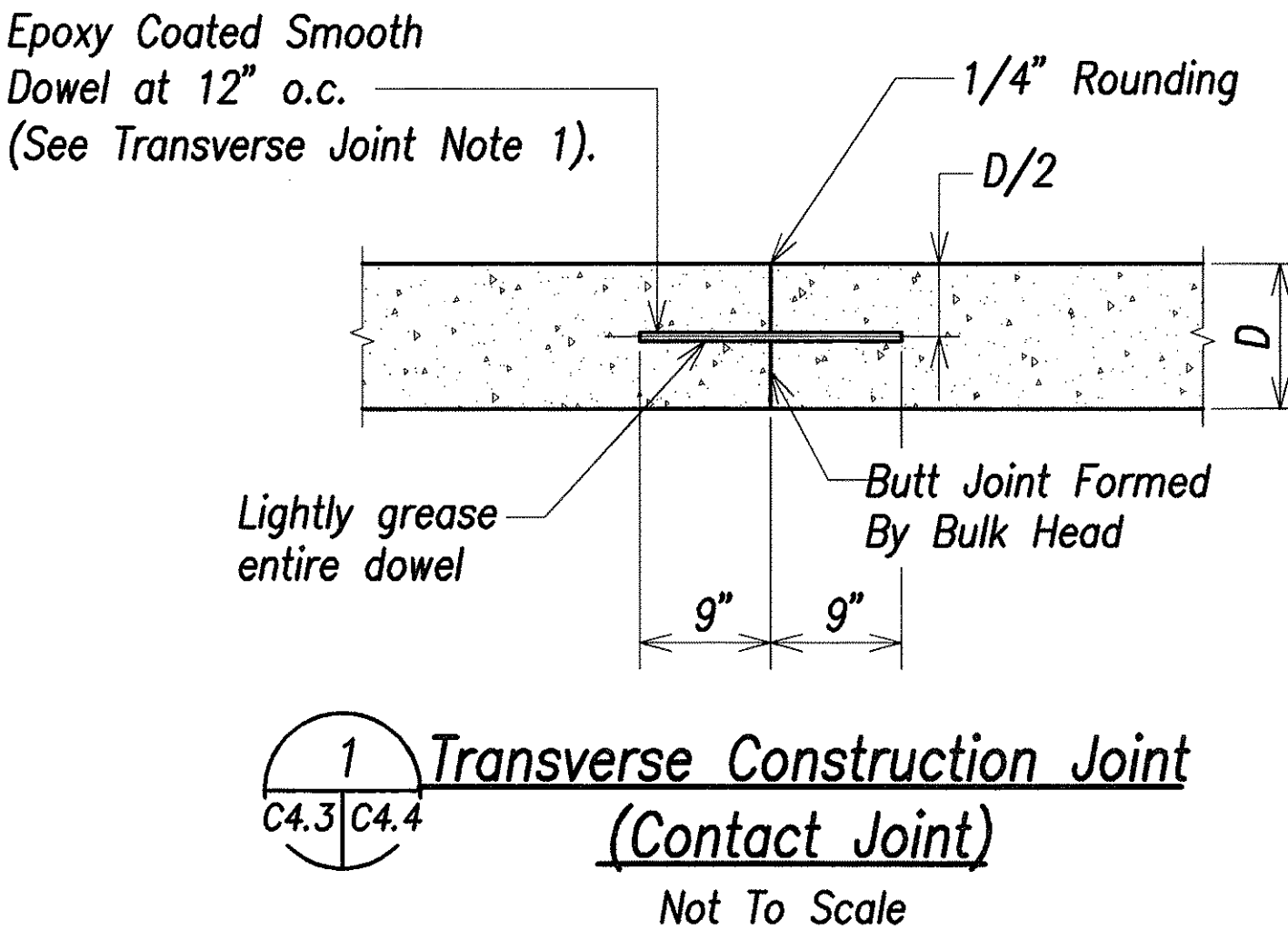
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(1)        | 2005        | 29        | 144          |

Longitudinal Joint Notes:

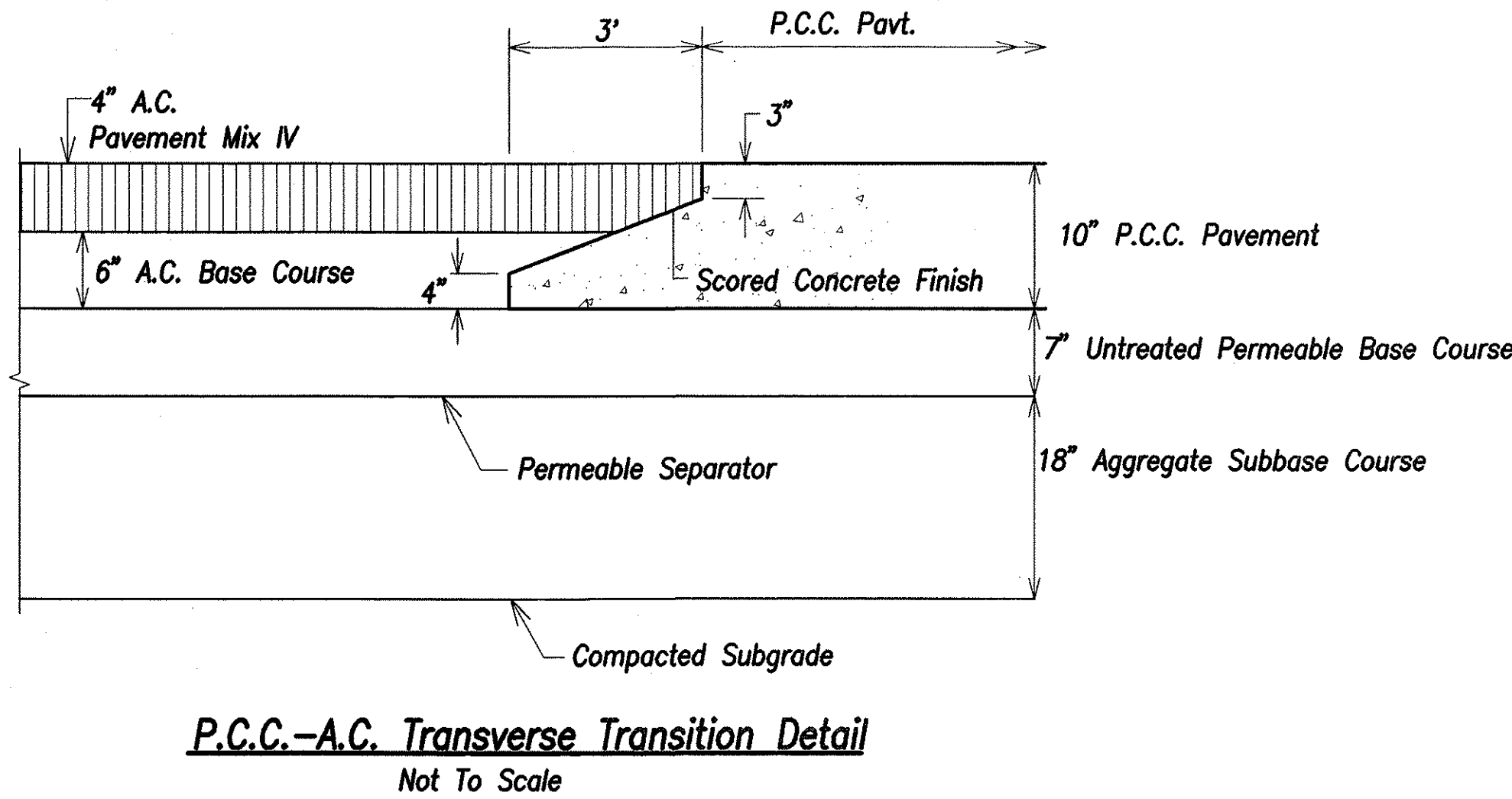
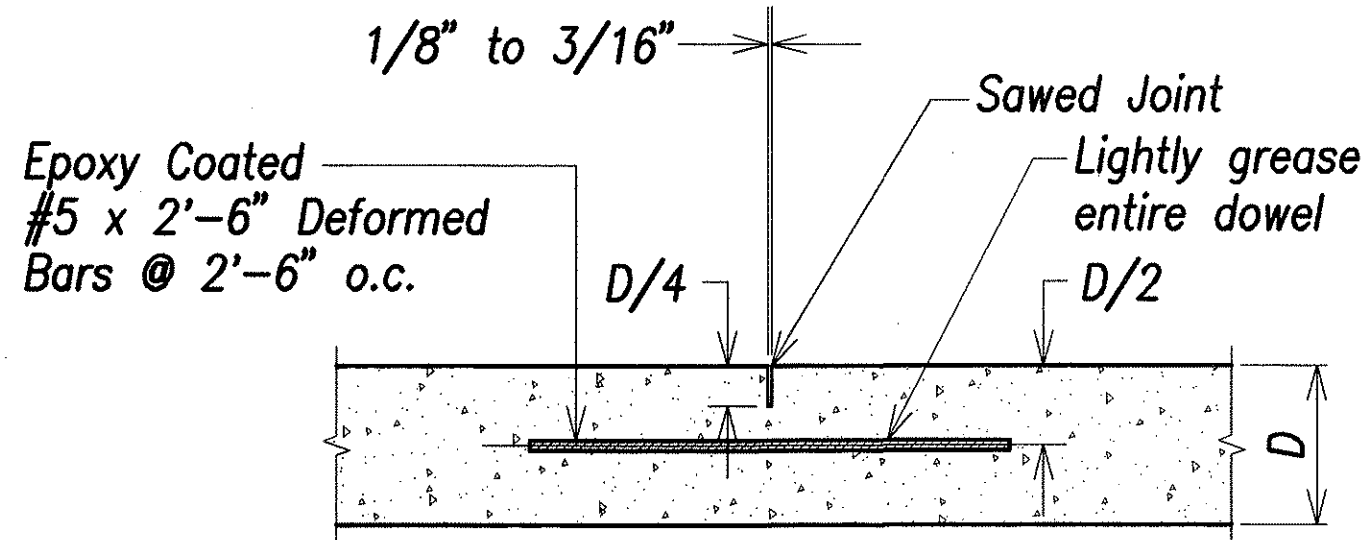
- Epoxy-Coated Deformed Bars shall conform to ASTM A775/A775M-00 Grade 40.
- Tiebars are to be located a minimum distance of 15 inches from a Transverse Joint. Tiebars closer to the transverse joint may interfere with joint movement.
- The Contractor shall not damage the epoxy coating on the deformed bars in any way during shipment, handling or placement. Damaged epoxy-coated deformed bars shall be replaced at no cost to the State.

Transverse Joint Notes:

- Epoxy-Coated Dowels shall conform to AASHTO M 284/M 284M Grade 60. For pavements with  $D < 10"$ , use  $1\text{--}1/4" \text{ } \phi \times 1'\text{--}6"$  long dowels. For pavements with  $D \geq 10"$ , use  $1\text{--}1/2" \text{ } \phi \times 1'\text{--}6"$  long dowels.
- Locate Transverse Construction Joints at the nearest planned Transverse Contraction Joint as shown on the jointing plans. Joint shall be perpendicular to paving lane.
- 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.
- See Sht. C4.3 for Typical Transverse Joint spacing.
- The Contractor shall not damage the epoxy coating on the dowel in any way during shipment, handling or placement. Damaged epoxy-coated dowels or rebar shall be replaced at no cost to the State.



$D = 10"$  (for Roadway)  
 $D = 6"$  (for Access Road)



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |



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ME OR UNDER MY SUPERVISION

DATE OF  
SIGNATURE 12/22/04 LICENSE EXPIRY

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

Pavement Details - 2

North-South Road  
Phase 1A  
F.A.I. Proj. No. STP-8930(1)

Not to Scale Date: Dec 22, 2004  
SHEET No. C4.4 OF 59 SHEETS

