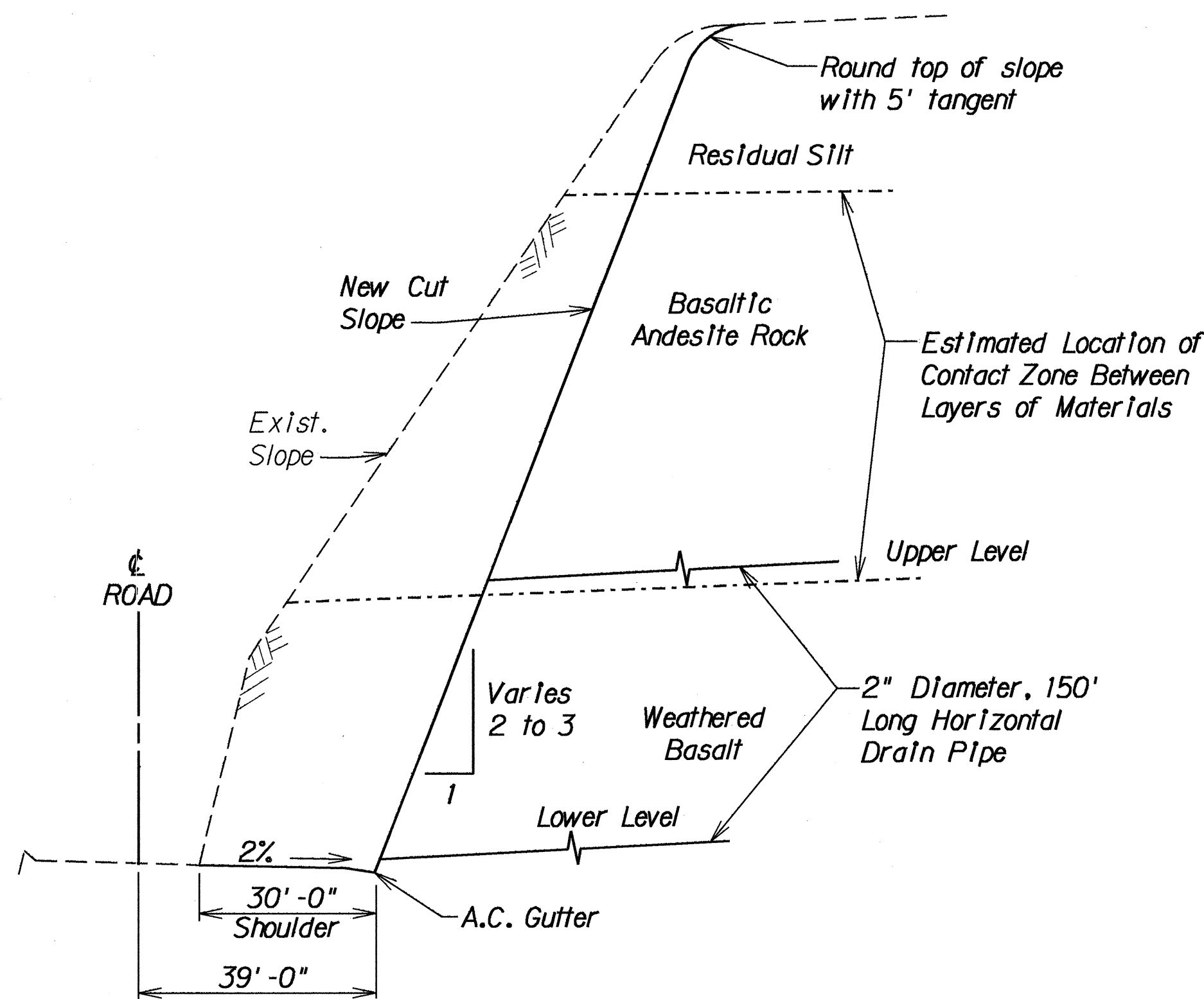
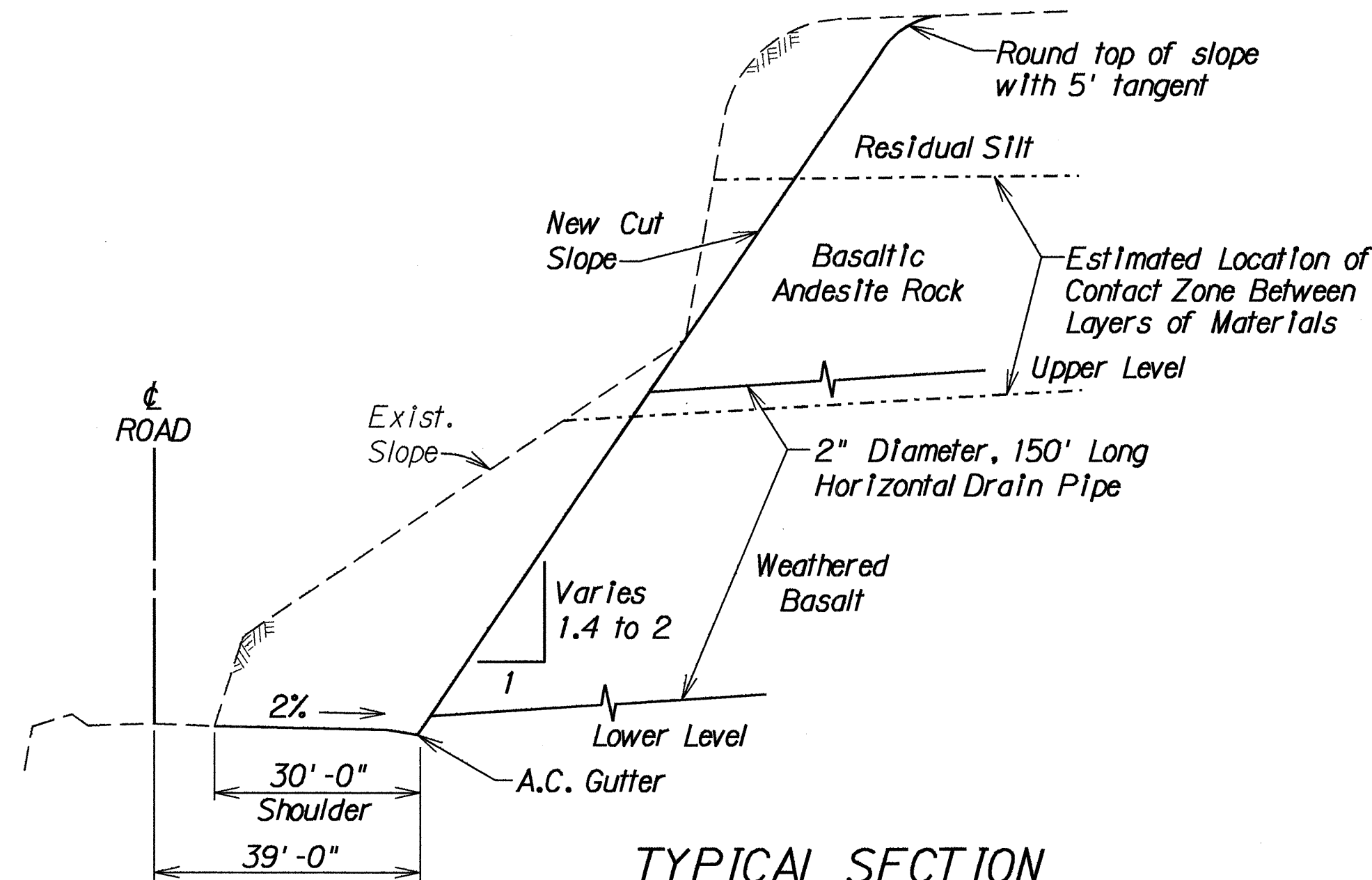


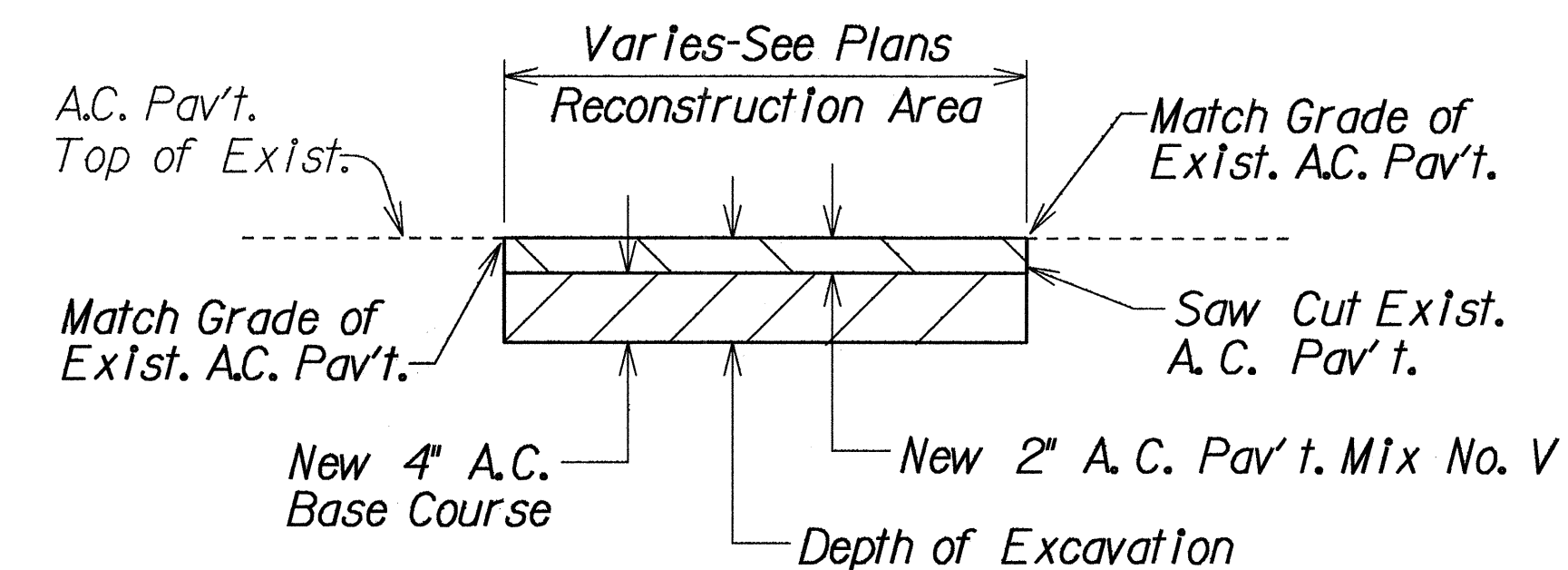
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360AB-01-92	1992	5	37



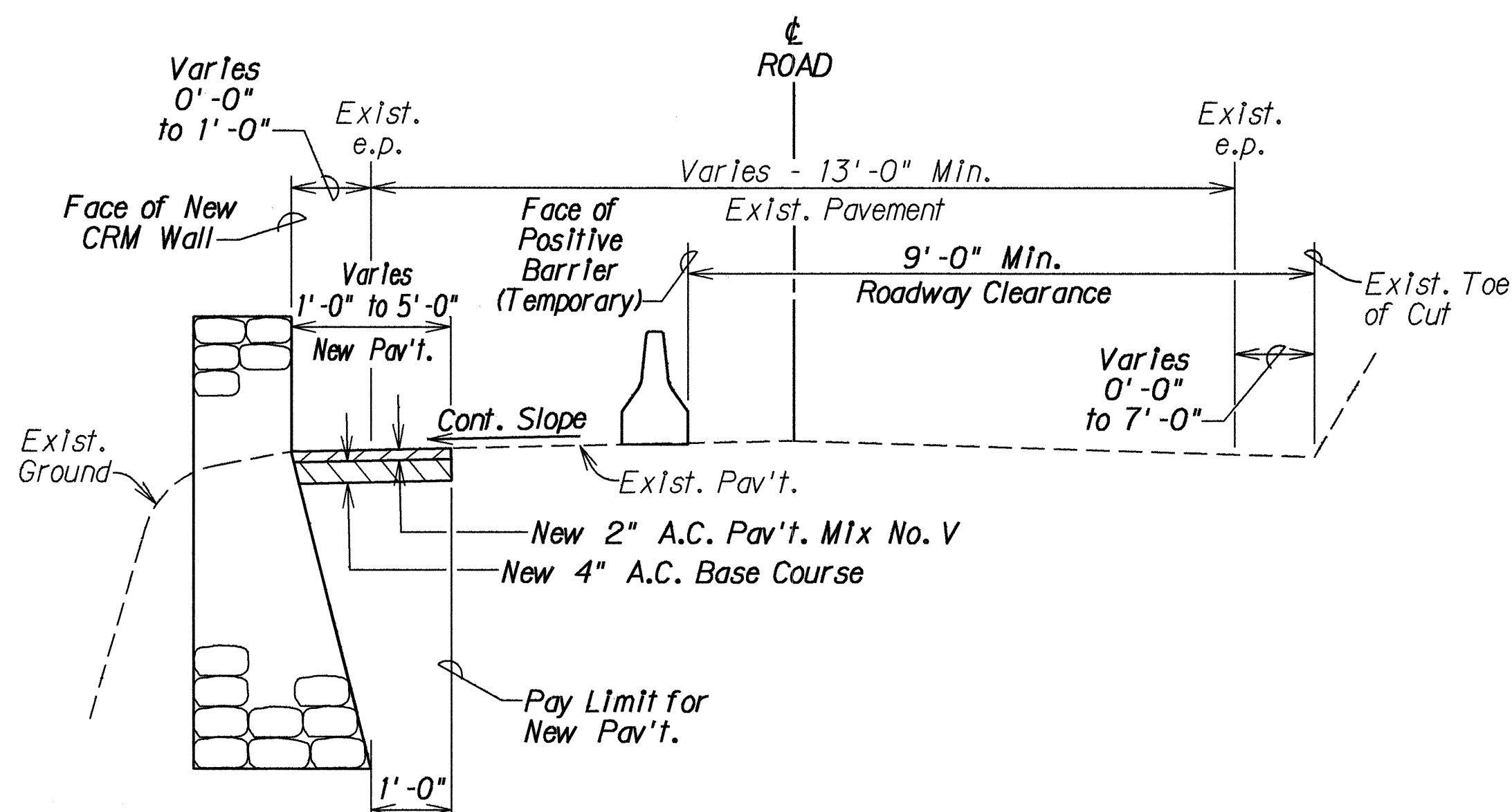
TYPICAL SECTION
 STA. 691+00 to STA. 693+00
 Not To Scale



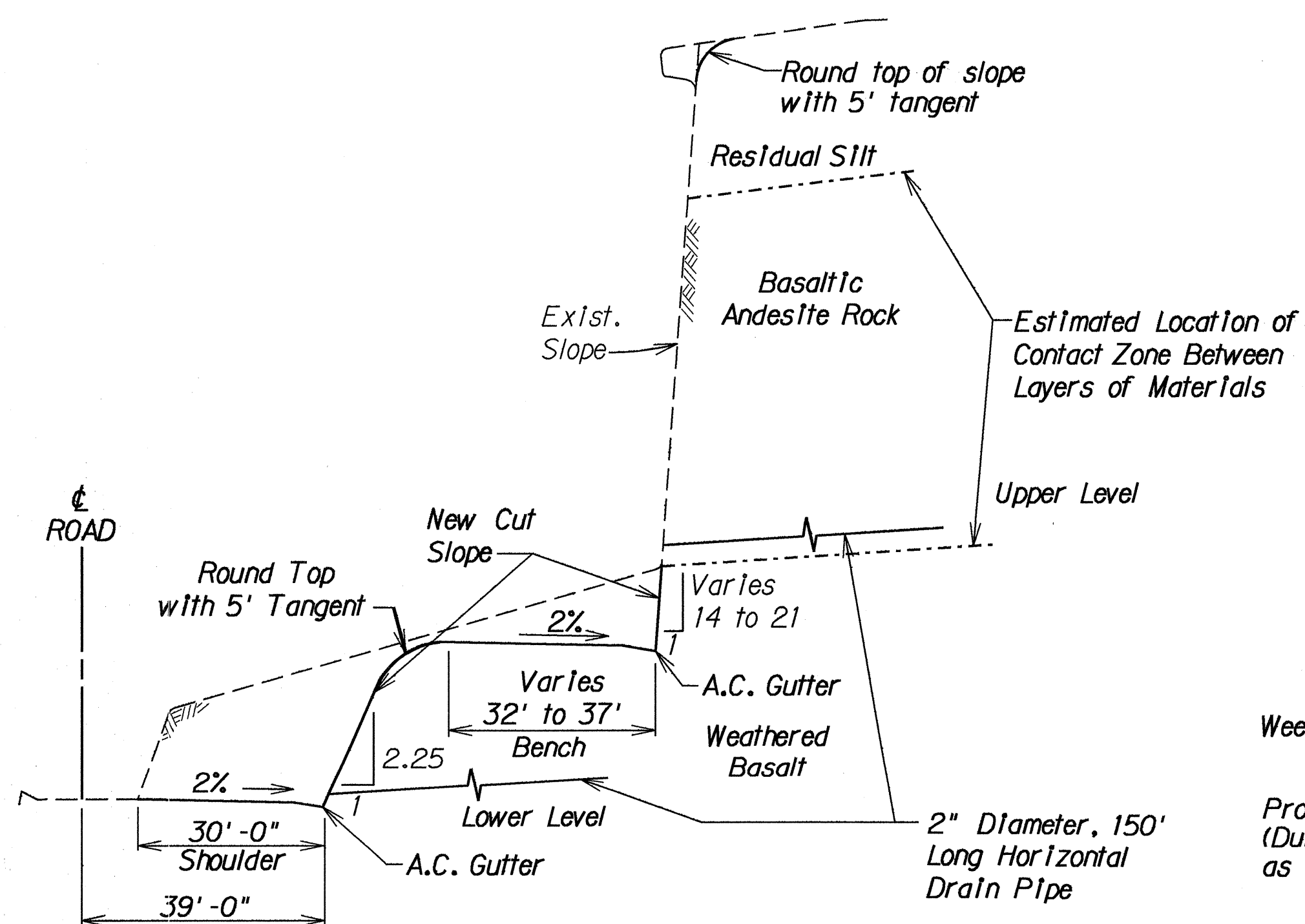
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 STA. 694+50 to STA. 701+00
 Not To Scale



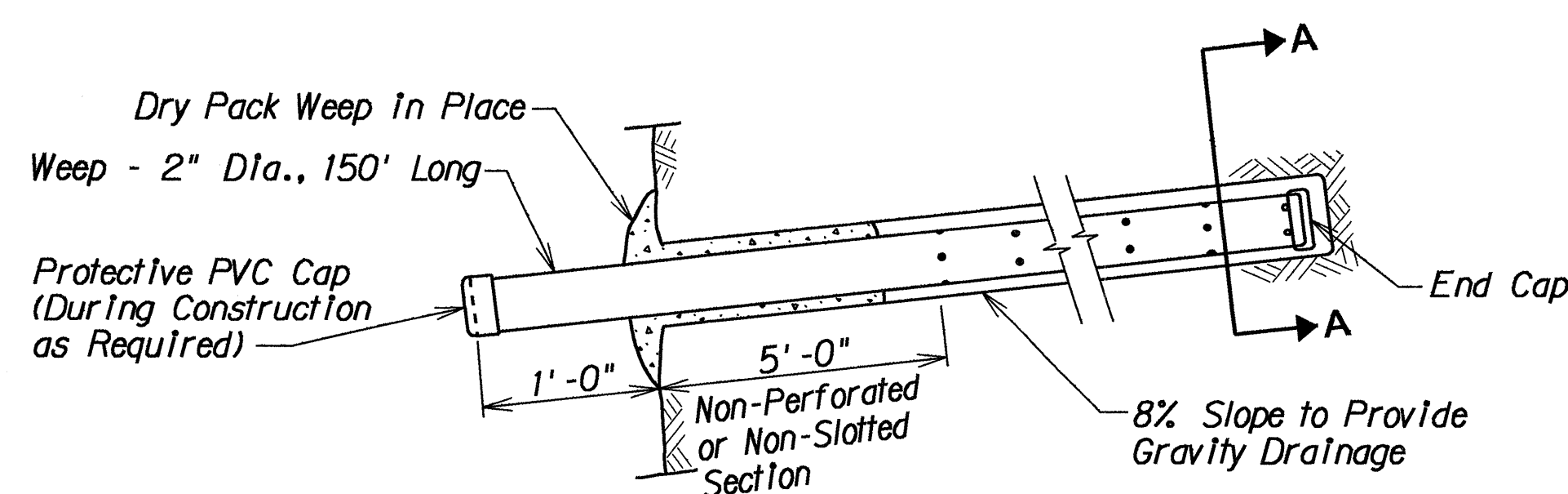
A.C. PAVEMENT RECONSTRUCTION DETAIL
 Not To Scale



TYPICAL SECTION @ CRM WALL
 Not To Scale

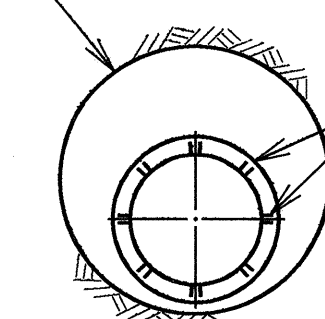


TYPICAL SECTION
 STA. 693+50 to STA. 694+00
 Not To Scale



HORIZONTAL DRAIN PIPE DETAIL
 Not To Scale

The Difference Between the Diameter of the Drilled Hole and Weep Shall Not Exceed 2".



SECTION A
 Not To Scale

*Perforations and Slots Requirements - See Special Provisions Sub-Section 647.02.

8/4/92 Added Lower Level Horizontal Drain Pipes

DATE REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TYPICAL SECTIONS & MISC. DETAILS
 HANA HWY. STORM DAMAGE REPAIRS
 Huelo Towards Nahaiku
 PROJ. NO. 360AB-01-92

Scale: As Noted Date: May, 1992

SHEET No. 1 OF 1 SHEETS

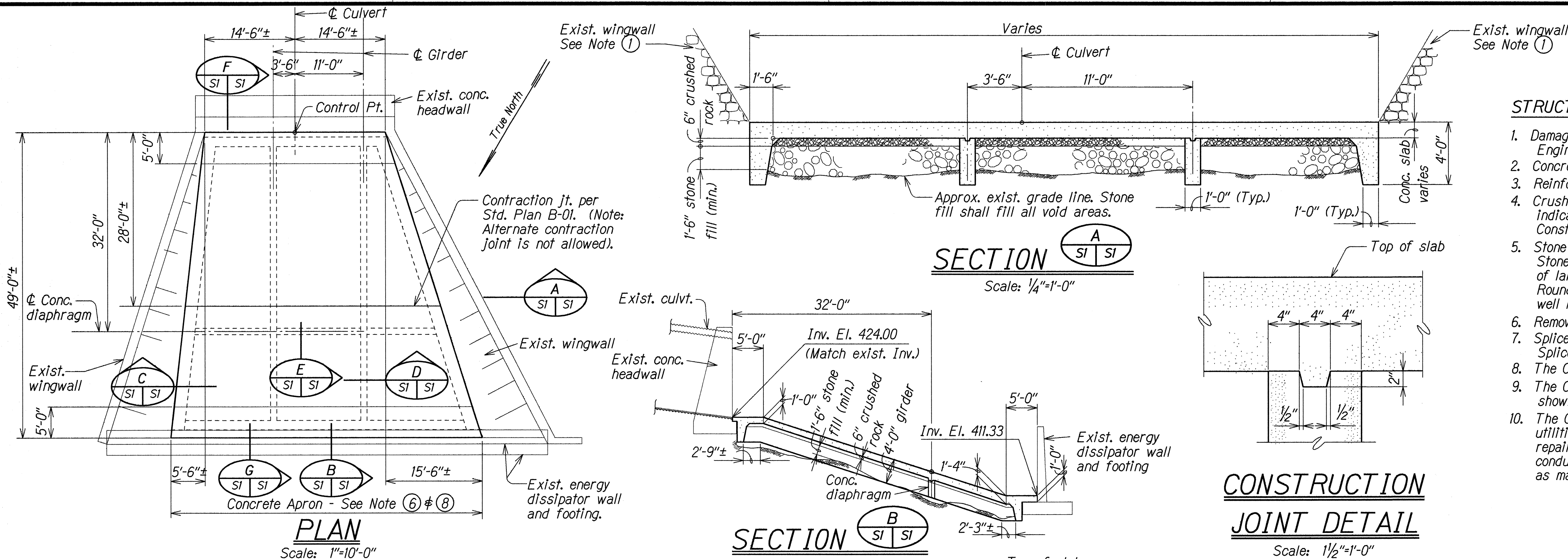
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360AB-01-92	1992	C.O. 5S-1	37

STRUCTURAL NOTES:

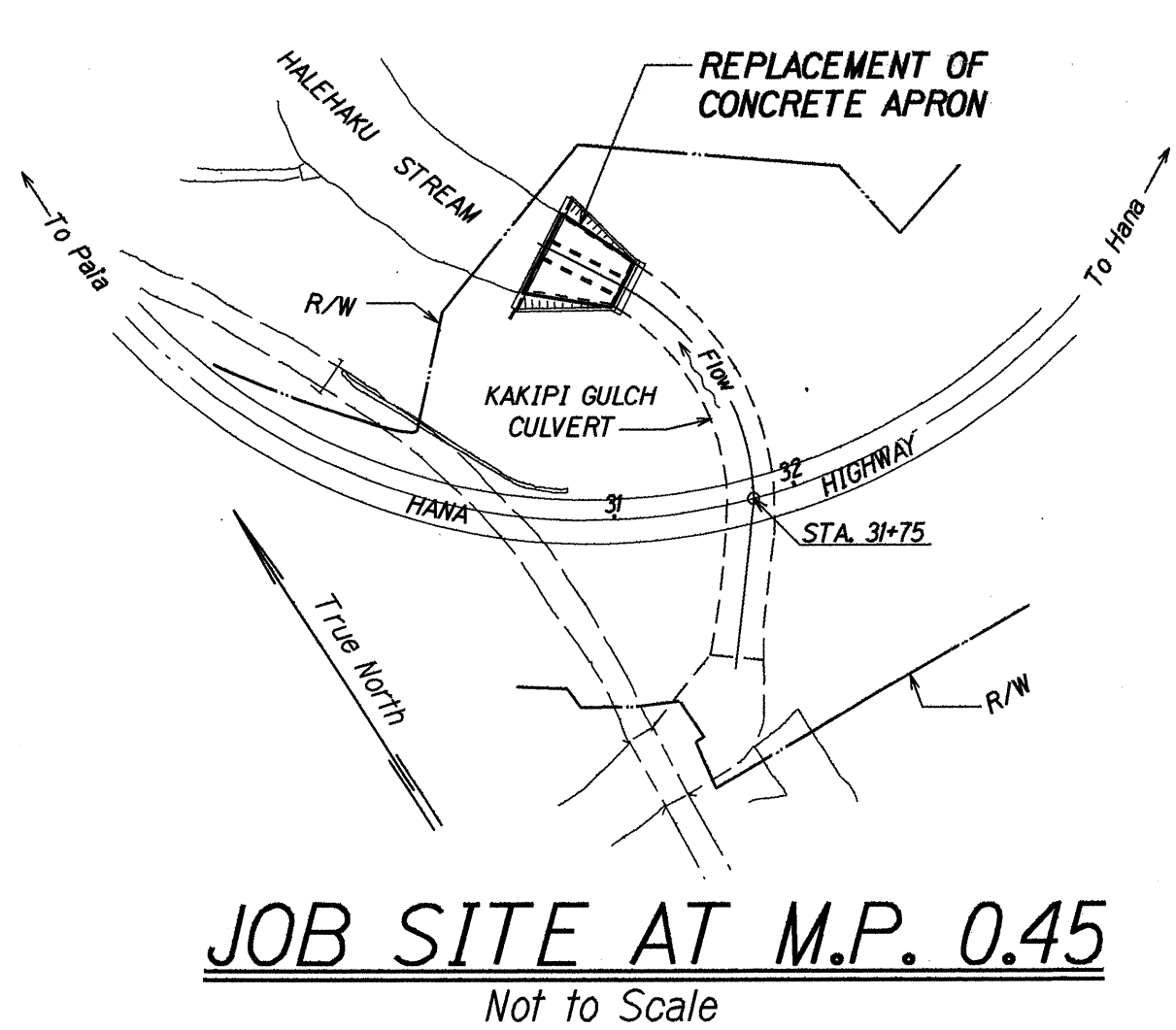
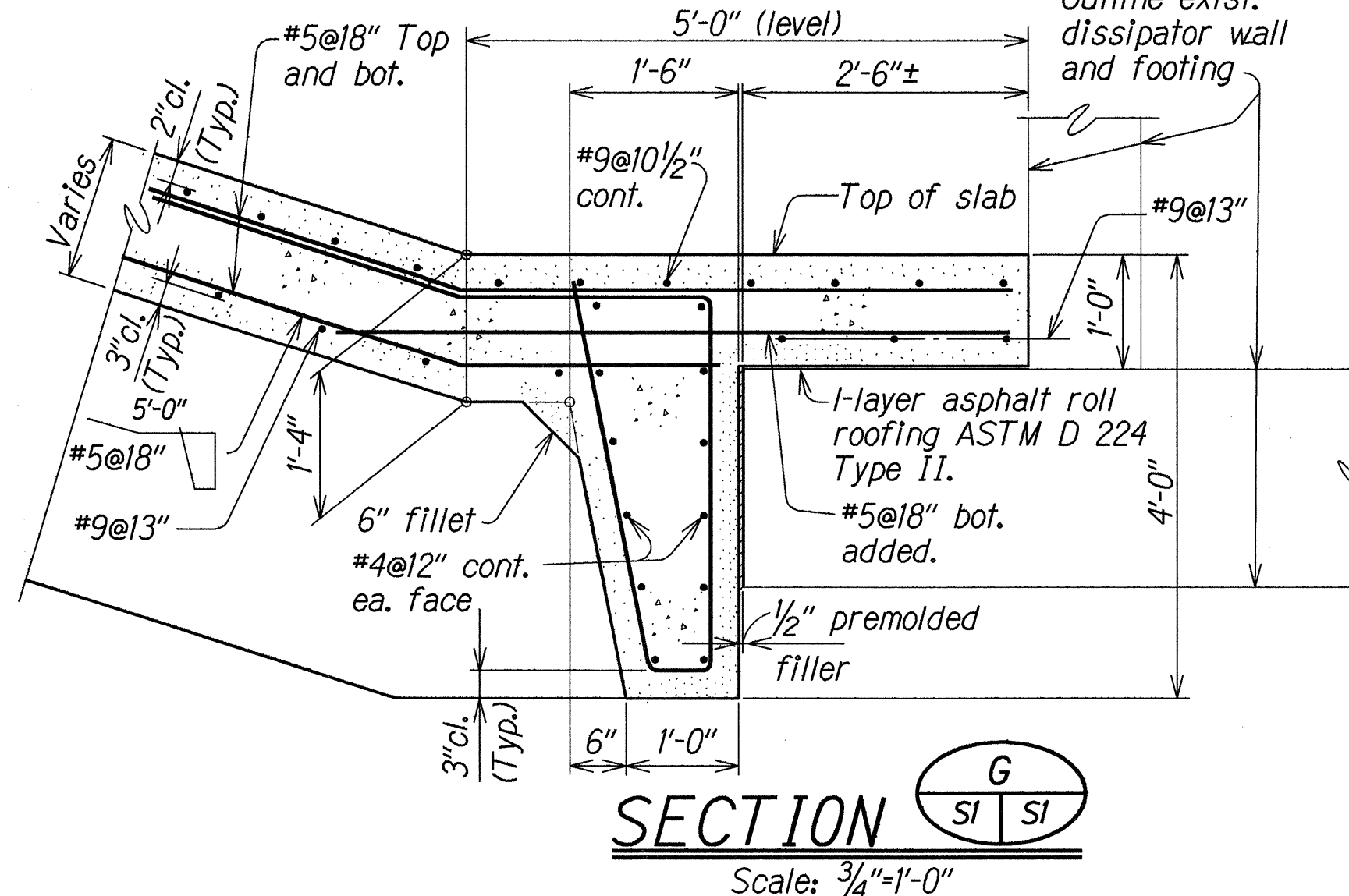
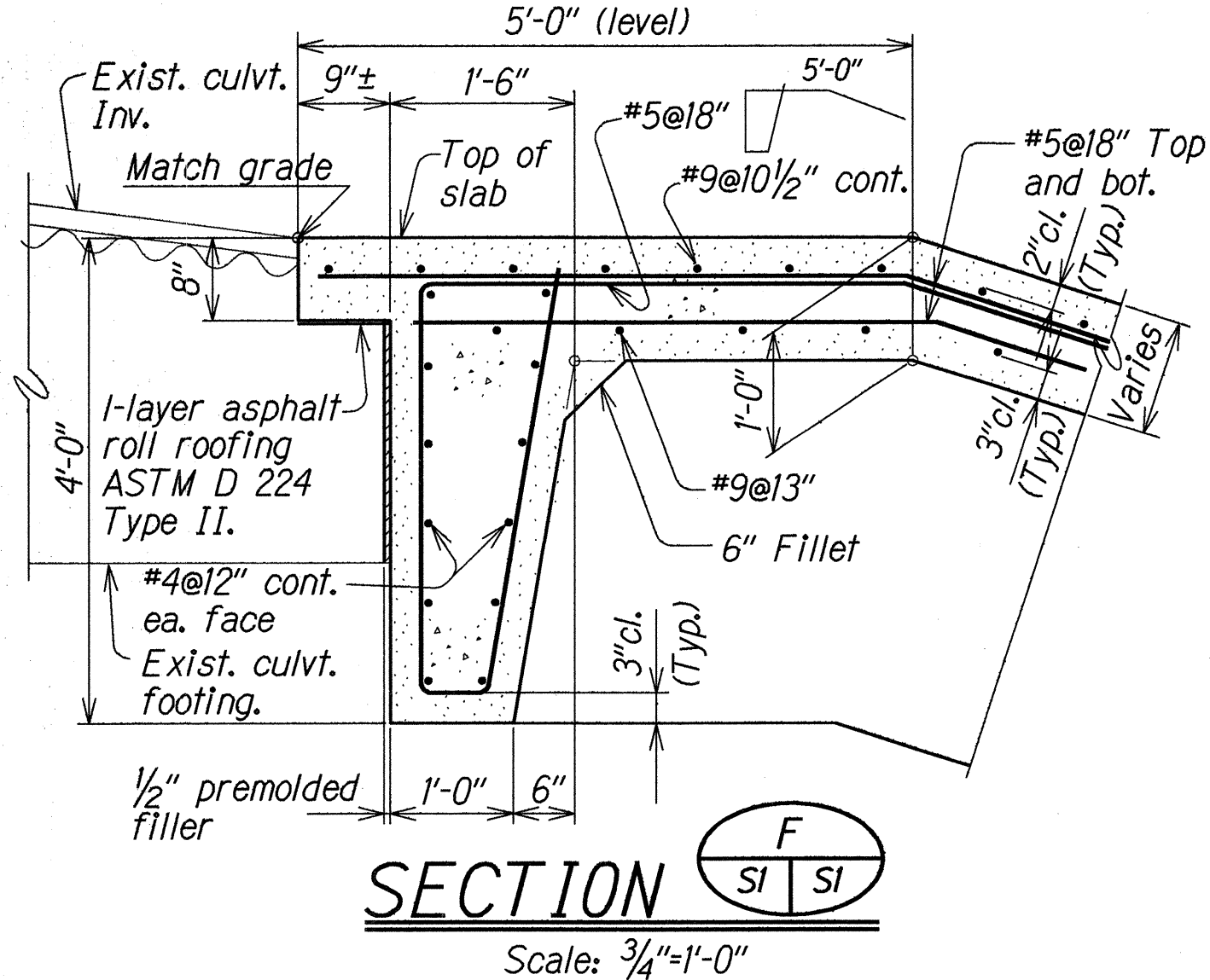
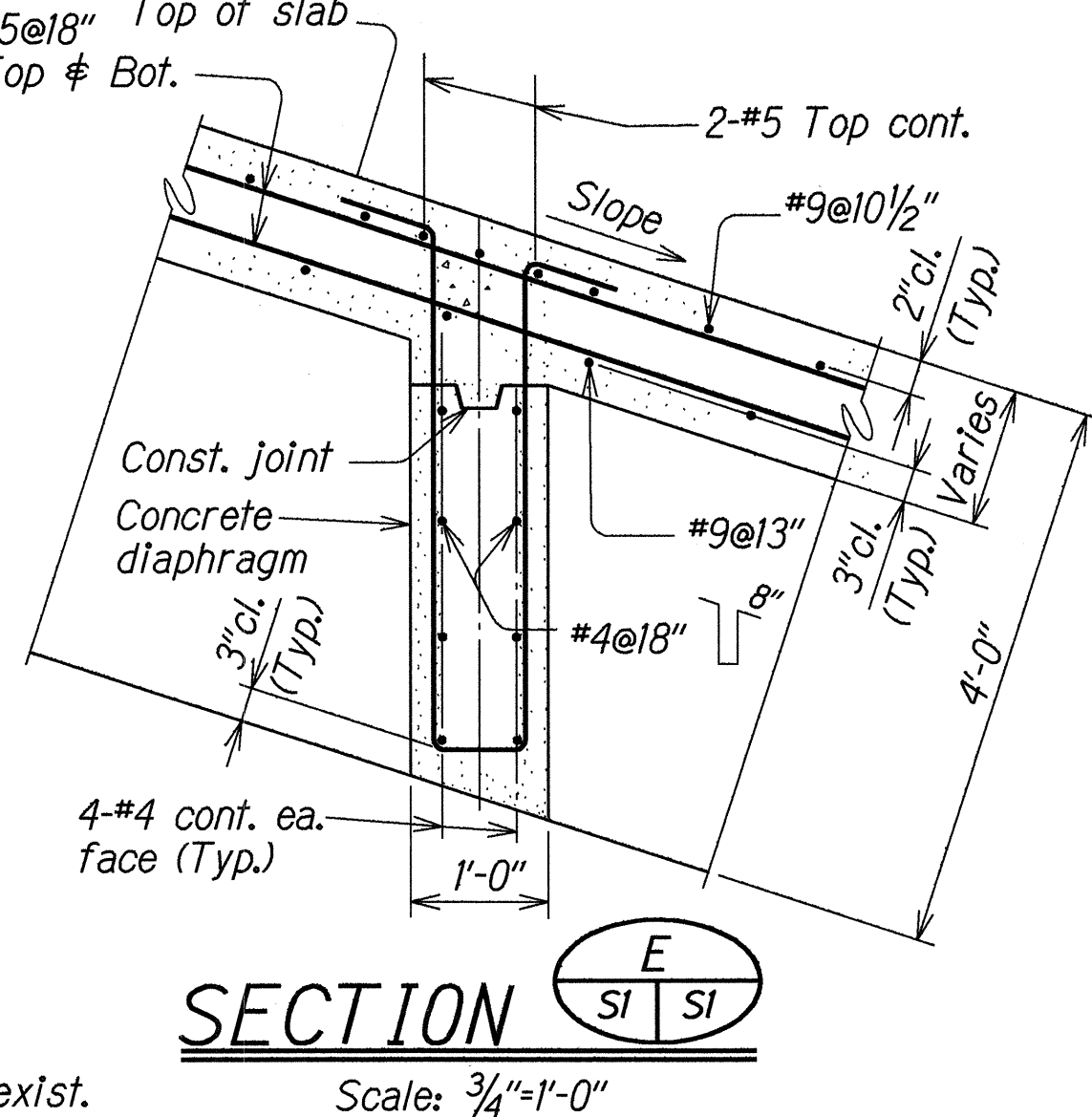
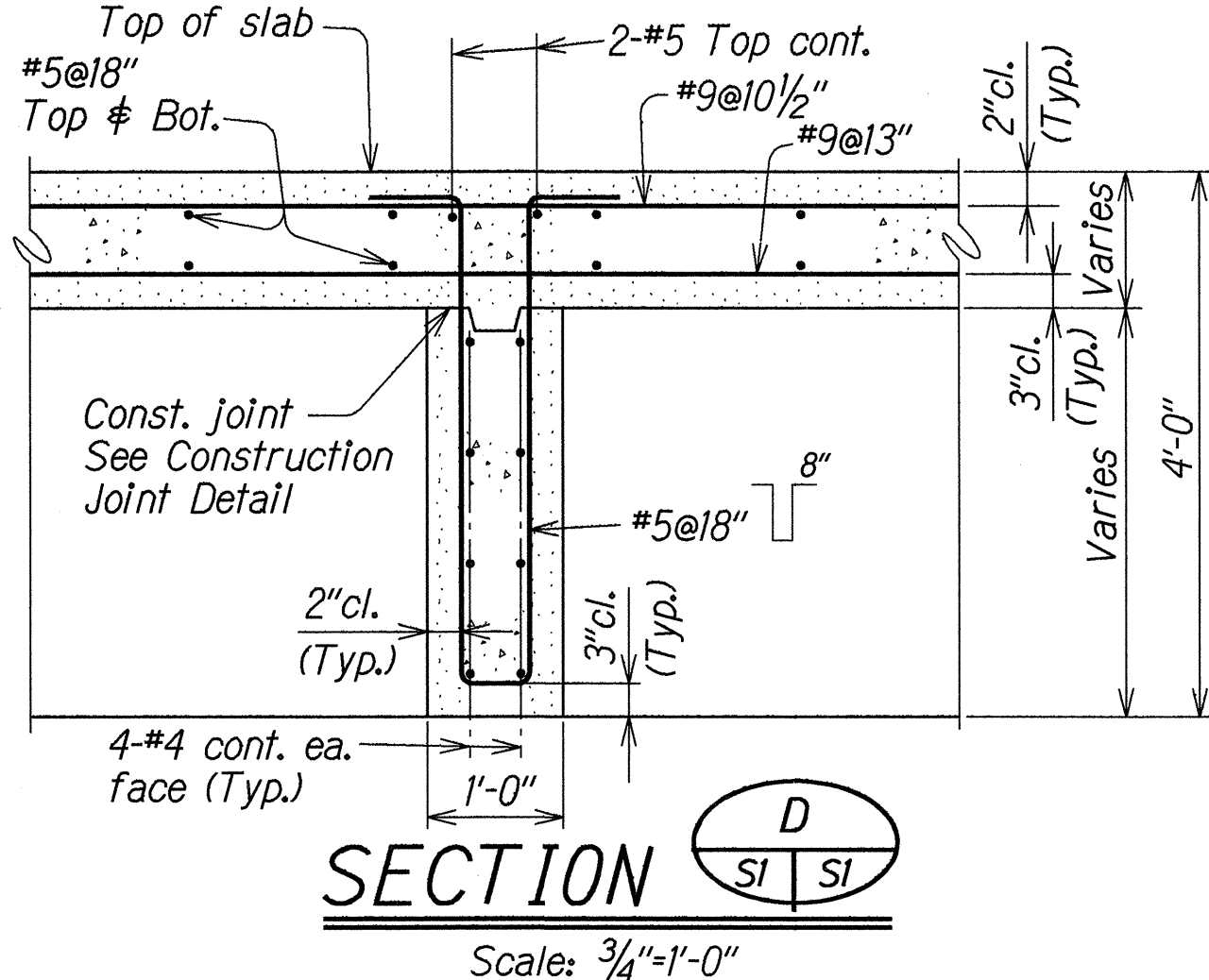
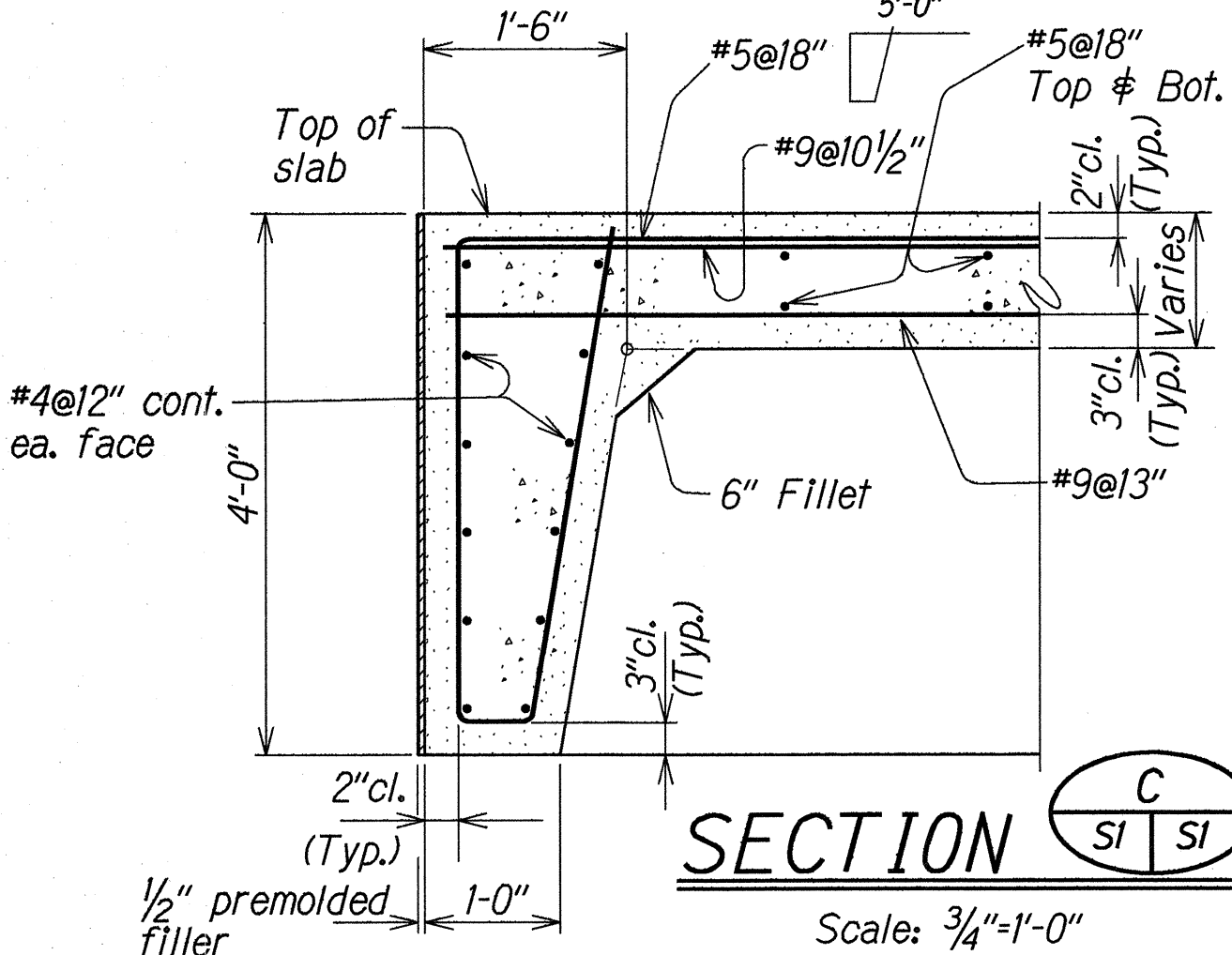
- Damaged areas of existing CRM wingwalls to be repaired as directed by the Engineer. Required repair shall be incidental to concrete in concrete apron.
- Concrete shall be Class A.
- Reinforcing shall be ASTM A 615, Grade 60.
- Crushed rock shall conform to the grading requirements for coarse aggregate as indicated in table 703-III of the Standard Specifications For Road And Bridge Construction, except that the filler material shall be deleted.
- Stone Fill:
Stones shall be hard, sound and durable. The stones shall consist predominantly of large sizes ranging from six inches (6") to three feet (3') maximum in dimension Round river boulders may be used in the core of the fill, provided they are well mixed with angular pieces.
- Remove existing damaged concrete apron before starting new concrete apron work.
- Splice lengths of #9 bars shall be 4'-0" min.
- Splice lengths of #5 bars shall be 1'-6" min.
- The Contractor shall drain area dry before proceeding with the work.
- The Contractor shall verify the details of existing structures, grades and dimensions shown on Plans before commencing with any work.
- The Contractor shall be solely responsible for the protection of adjacent property, utilities, existing and new structures from damage due to construction and he shall repair any damage at his expense to the satisfaction of the Engineer. He shall conduct his work in such a manner and provide temporary shoring or other measures as may be necessary to insure the safety of all concerned.

ESTIMATED QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
202.0441	Removal Of Damaged Concrete Apron	(50 C.Y.)	L.S.
206.2500	Structure Excavation For Concrete Apron	25 C.Y.	C.Y.
503.1000	Class A Concrete In Concrete Apron	125 C.Y.	C.Y.
602.0900	Reinforcing Steel For Concrete Apron	(22,000 LBS.)	L.S.
603.0015	Crushed Rock	30 C.Y.	C.Y.
650.0200	Stone Fill	(300 C.Y.)	L.S.



CONSTRUCTION JOINT DETAIL



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**REPLACEMENT OF WASHED-OUT
EXISTING CONCRETE APRON (OUTLET)
AT KAKIPI BRIDGE**
HANA HIGHWAY STORM DAMAGE REPAIR
Project No. 360AB-01-92
Scale: As Noted Date: July 1992

SHEET No. 51 OF 1 SHEETS
C.O. 5S-1