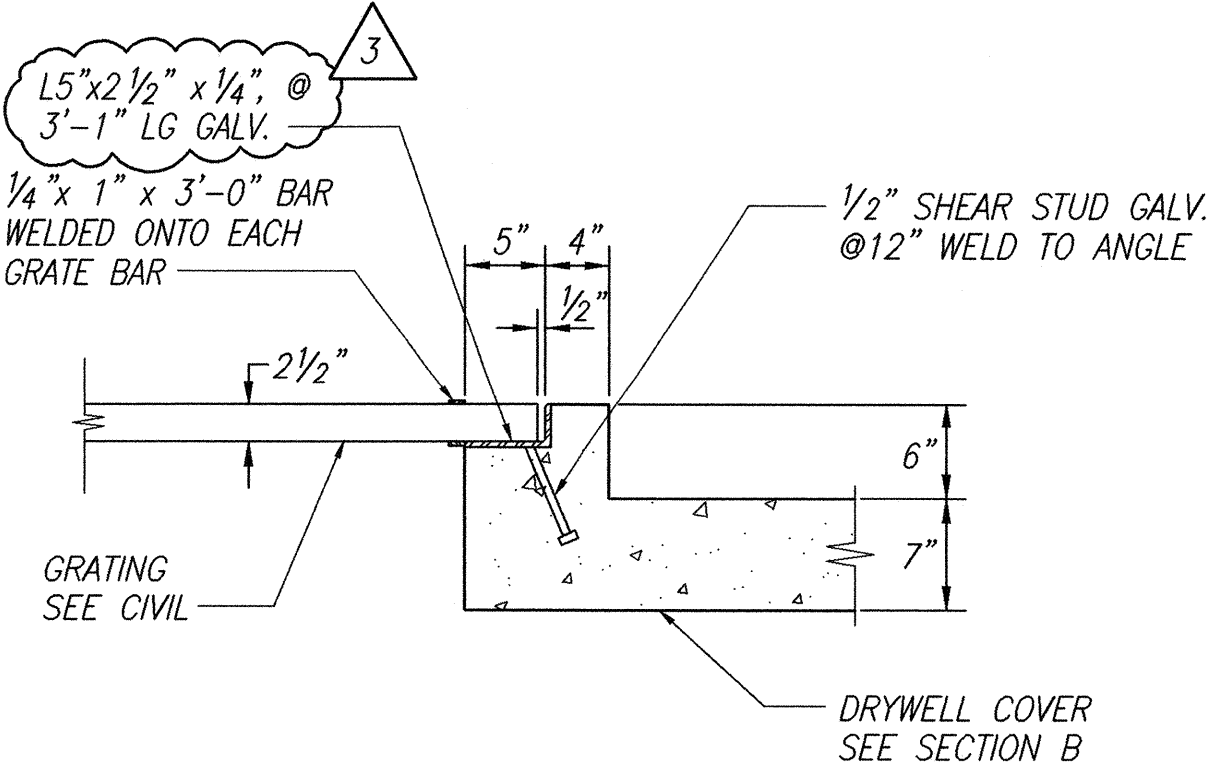


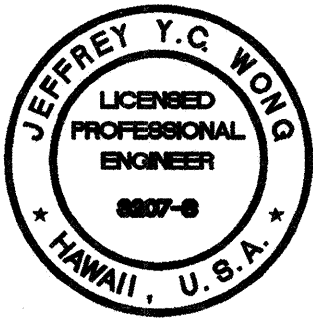
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	ADD.55	65



SECTION D
 S-1 SCALE: 1"=1'-0"

GENERAL NOTES

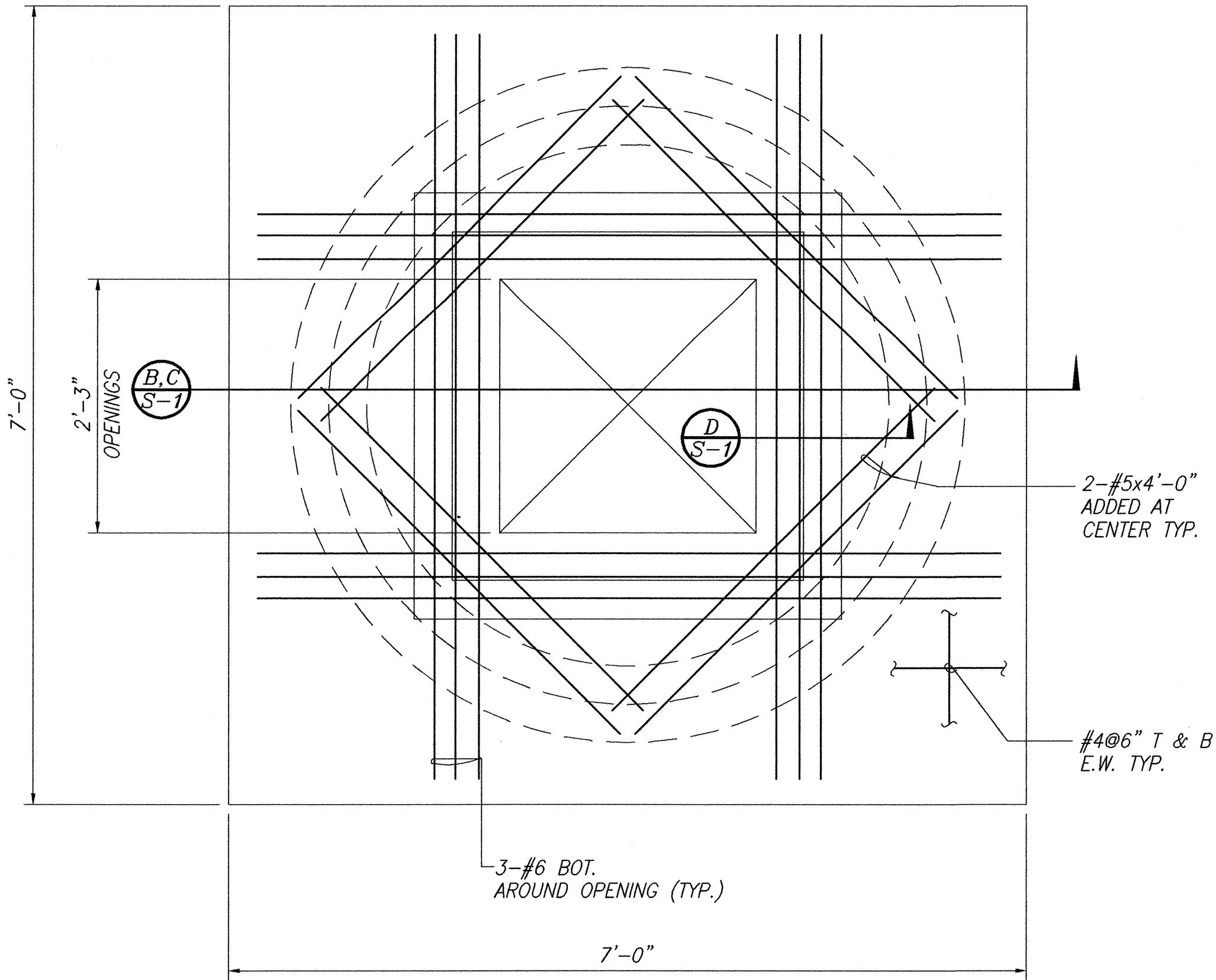
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS" AND THE SPECIAL PROVISIONS.
- ALL CONCRETE WORK SHALL CONFORM TO ACI 318-95 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH WITH A MAXIMUM SLUMP OF FOUR (4) INCHES. BOTTOM SLAB SHALL BEAR ON FIRM, UNDISTURBED ROCK.
- ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60. BENDS & HOOKS SHALL BE AS INDICATED IN DRAWING.
- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS INDICATED IN DRAWING.
- REFER TO CIVIL DRAWINGS FOR LOCATION OF DRYWELL
- DESIGN LOADS - LIVE LOAD PER AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 2ND EDITION INCLUDING INTERIMS UP TO 2000.
 - ROADWAY SHOULDER..... H20
 - SEISMIC ACCELERATION COEFFICIENT (A)=0.60
 - LATERAL PRESSURE:
 - Active Pressure=35 pcf (Level Backfill)
 - Active Pressure=55 pcf (Sloping Backfill)
 - Passive Pressure=700 pcf
 - Coefficient of Friction=0.65
 - Sliding Resistance Factor=0.8
- STRENGTH LIMIT DESIGN:
 - Coefficient of Friction=0.5
 - Passive Pressure=350 pcf
- ALLOWABLE ROCK BEARING CAPACITY = 4000 PSF PER SOIL REPORT BY ERNEST K. HIRATA & ASSOCIATES, INC. DATED AUGUST 31, 2000.
- ANGLE SUPPORT FRAME FOR GRATING SHALL BE CONTINUOUS WITH CORNERS MITERED, BUTTED, WELDED AND GROUND SMOOTH.



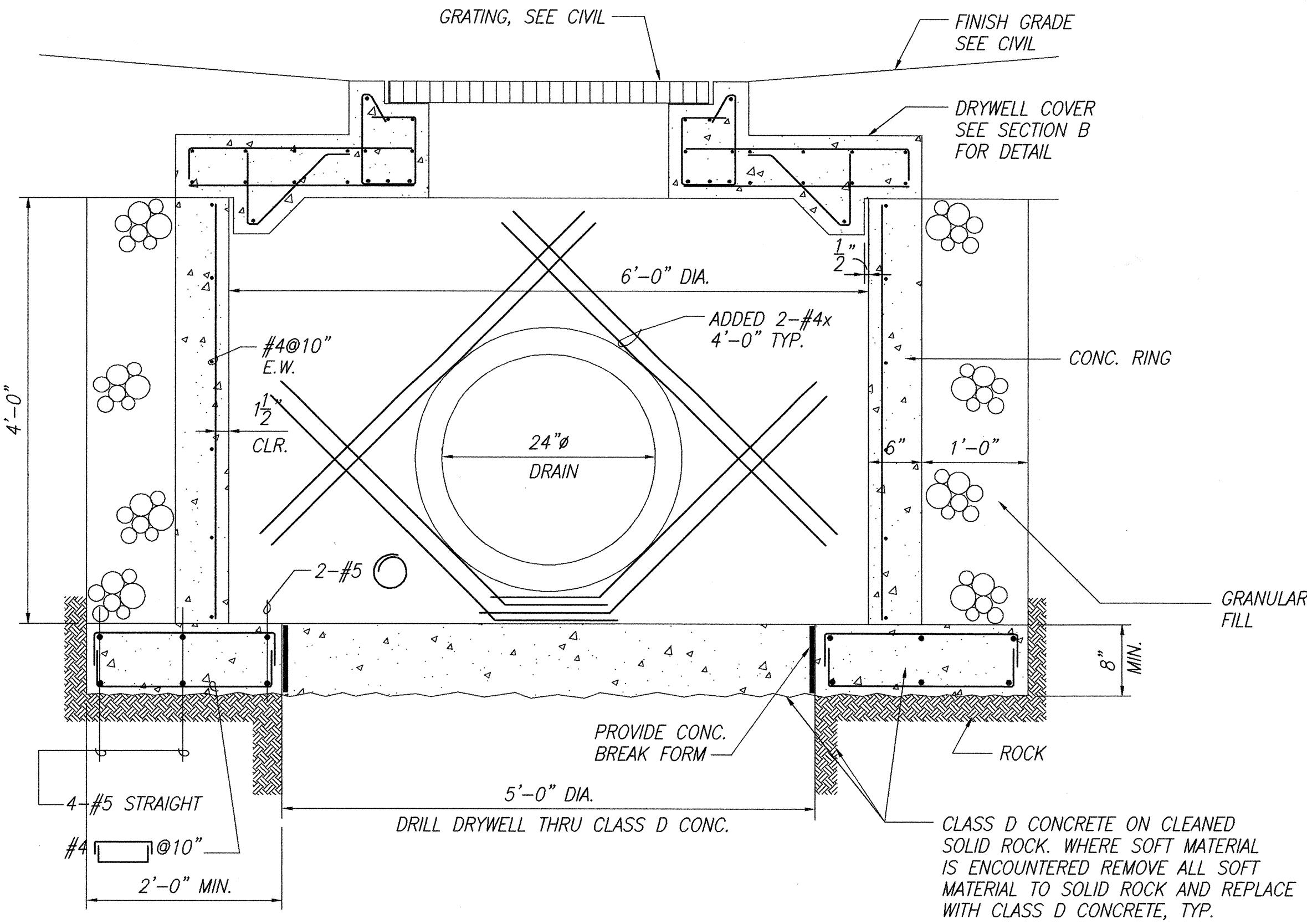
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 COMPANY

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

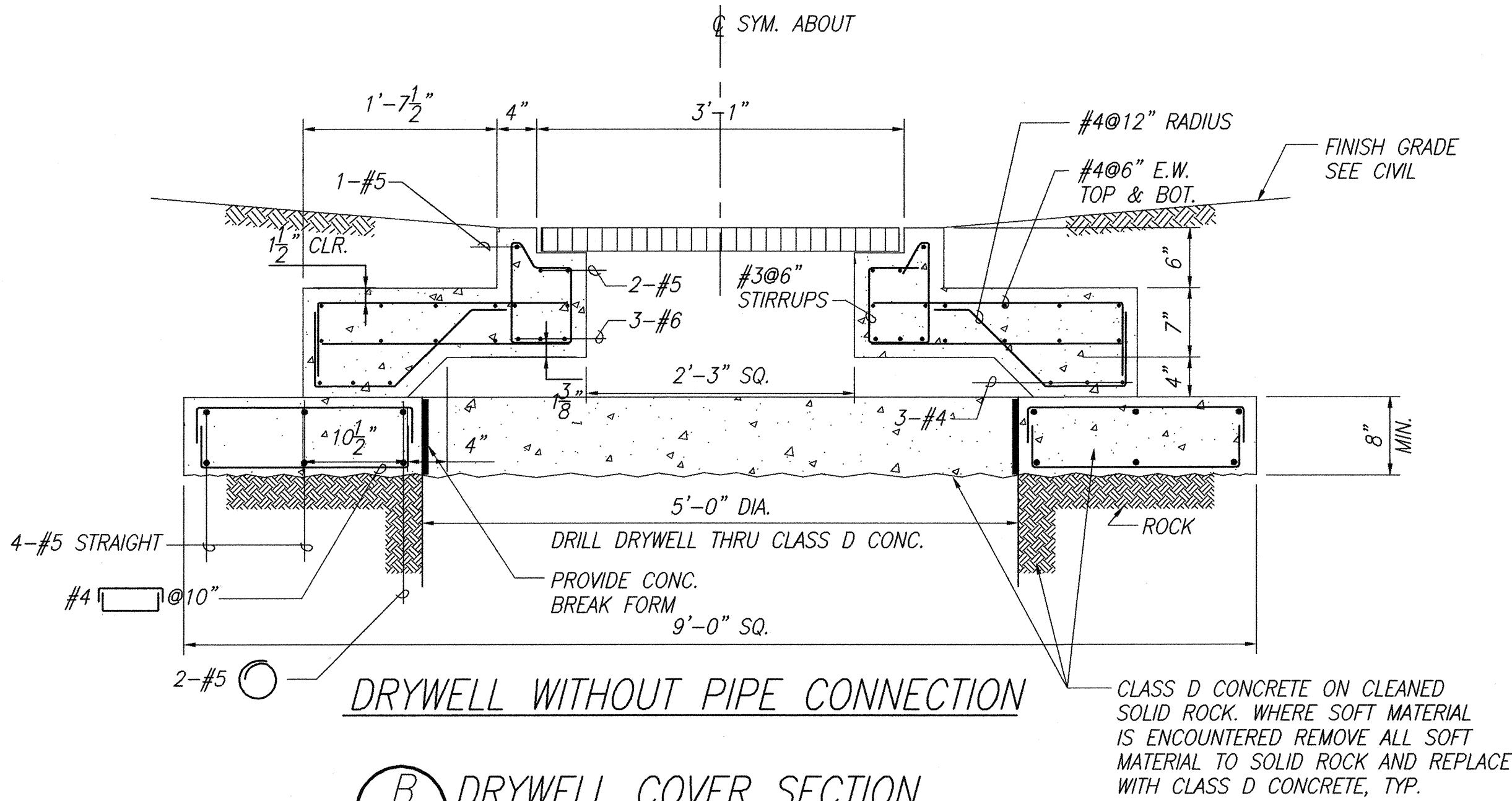
DRYWELL COVER DETAILS
 VOLCANO ROAD INTERSECTION
 IMPROVEMENTS AT HUINA ROAD
 DISTRICT OF PUNA
 Project No. 11M-01-00
 Scale As Noted Date: APRIL, 2002
 SHEET No. 1 OF 4 SHEETS



A DRYWELL COVER PLAN
 S-1 SCALE: 1" = 1'-0"



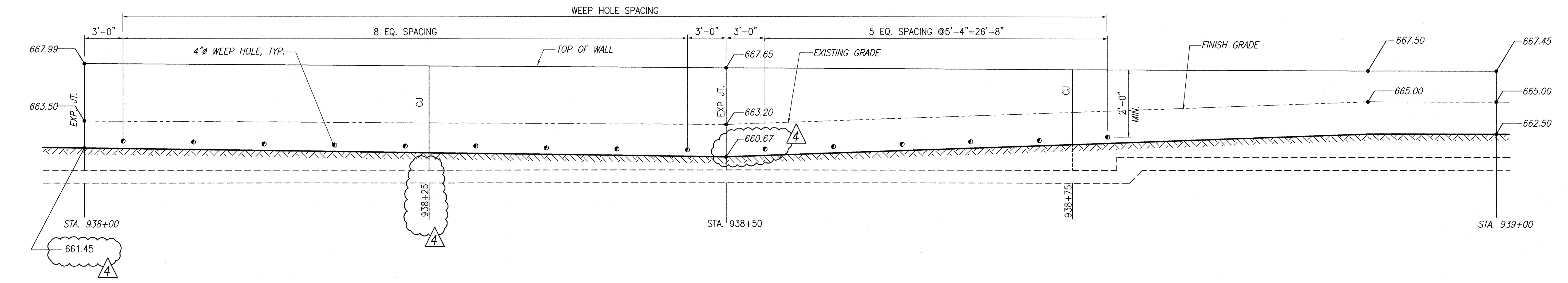
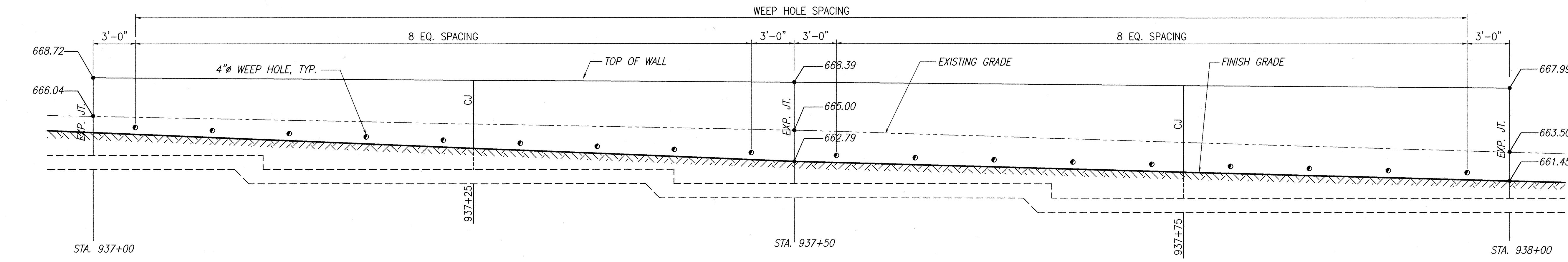
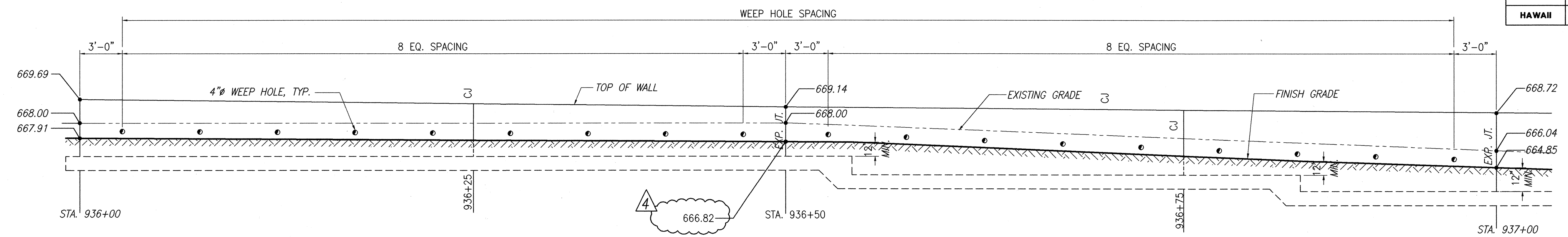
C DRYWELL COVER SECTION
 S-1 SCALE: 1" = 1'-0"



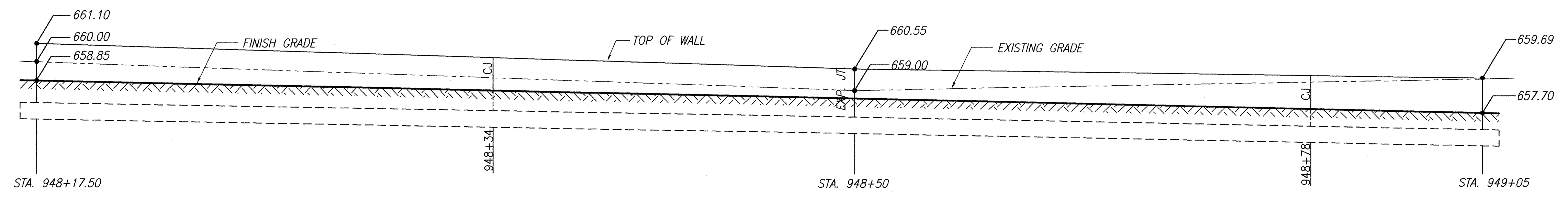
B DRYWELL COVER SECTION
 S-1 SCALE: 1" = 1'-0"

3	4/29/2002	REVISED DIMENSION FOR D/S-1
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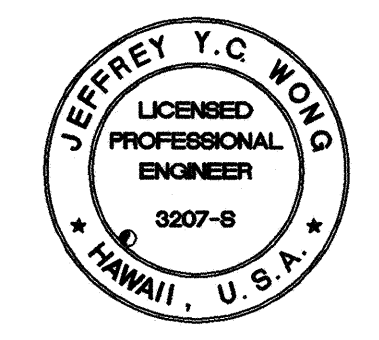
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	C.O.56	65



1 RETAINING WALL NO.1 ELEVATION (TYPE1)
S-2 SCALE: 1/4" = 1'-0"



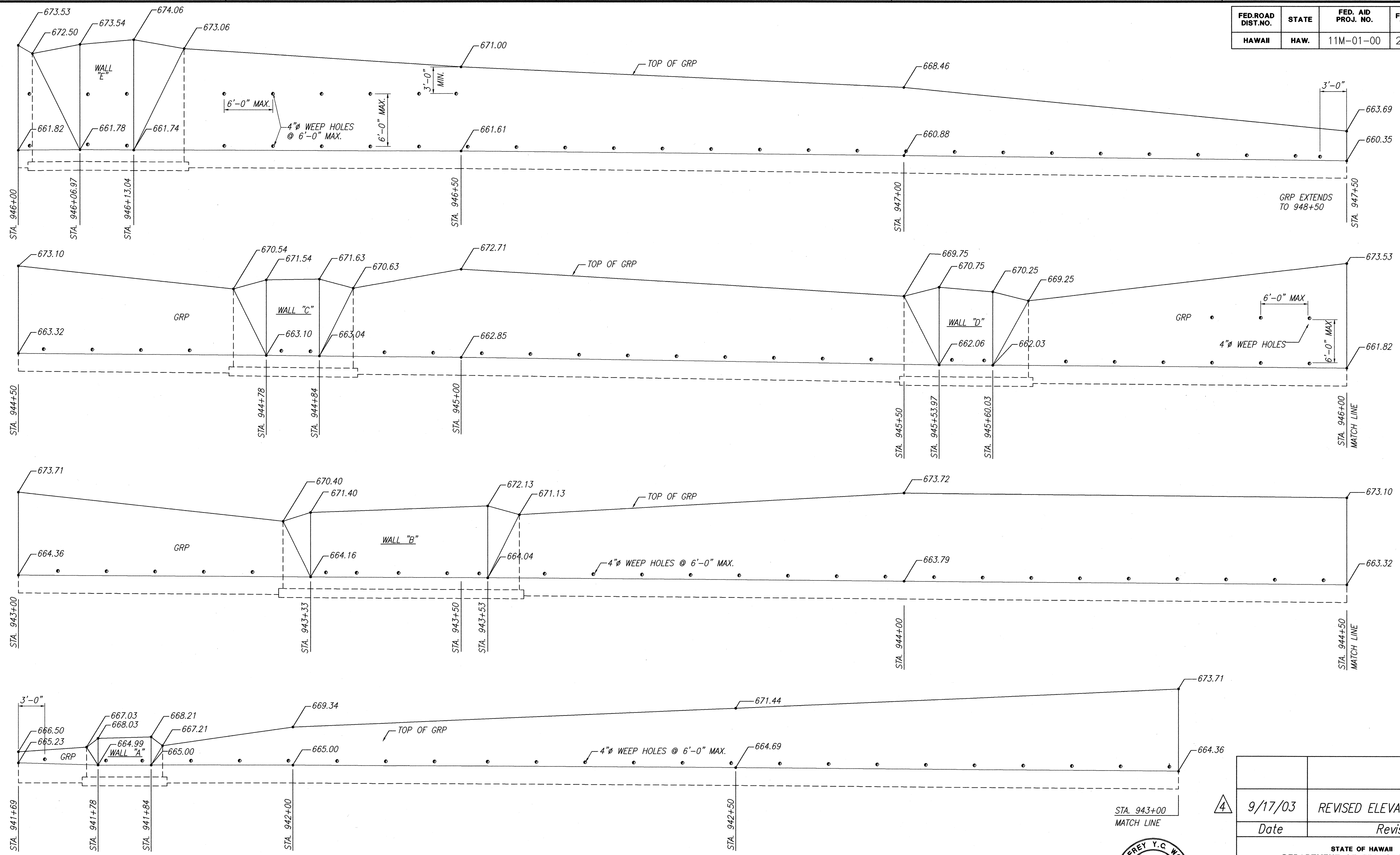
2 RETAINING WALL NO.2 ELEVATION (TYPE 3)
S-2 SCALE: 1/4" = 1'-0"



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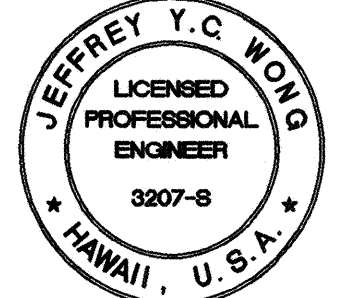
9/17/03	REVISED ELEVATION
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RETAINING WALL ELEVATIONS VOLCANO ROAD INTERSECTION IMPROVEMENTS AT HUINA ROAD DISTRICT OF PUNA Project No. 11M-01-00 Scale As Noted Date: SEPT. 2003 SHEET No. S2 OF 4 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	C.O.57	65



1 RETAINING WALL NO.3 ELEVATION (TYPE 2)
S-3 SCALE: 3/16"=1'-0"

4 REVISED ENTIRE SHEET



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4	9/17/03	REVISED ELEVATION
	Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>RETAINING WALL ELEVATION</u> <u>VOLCANO ROAD INTERSECTION</u> <u>IMPROVEMENTS AT HUINA ROAD</u> <u>DISTRICT OF PUNA</u> <u>Project No. 11M-01-00</u> Scale As Noted Date: SEPT. 2003 SHEET No. S3 OF 4 SHEETS		

