

CL Bridge

0.76'

Baseline

1'-3" 2

2'-11" 2

3"

7'-3" 2

2'-3" 2

1'-0" 1'-0" 2

3'-9" 2

1'-8" 2

1'-6" 2

1'-9" 2

3'-3" 2

1'-6" 2

Wing Wall

Abutment No. 1

Crm Wall

Micropile (20 Total), See Sht. S2.4 for Details

Micropile Spacing

(9) Spaces at 4'-10"

Sta 269 + 76.2

Approach Slab, See Sht S4.5 for Details

Top of Wing Wall Elevation to be Level with Abutment Seat

Wing Wall

Abutment Wall, See Sht S2.3 for Details

CL Abutment

2" C17

2'-6"

3"

5 S2.1 S2.3

4 S2.1 S2.3

3 S2.1 S2.3

2 S2.1 S2.3

1 S2.1 S2.3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 66	93



V 3

S2.1, S2.2 | S2.1

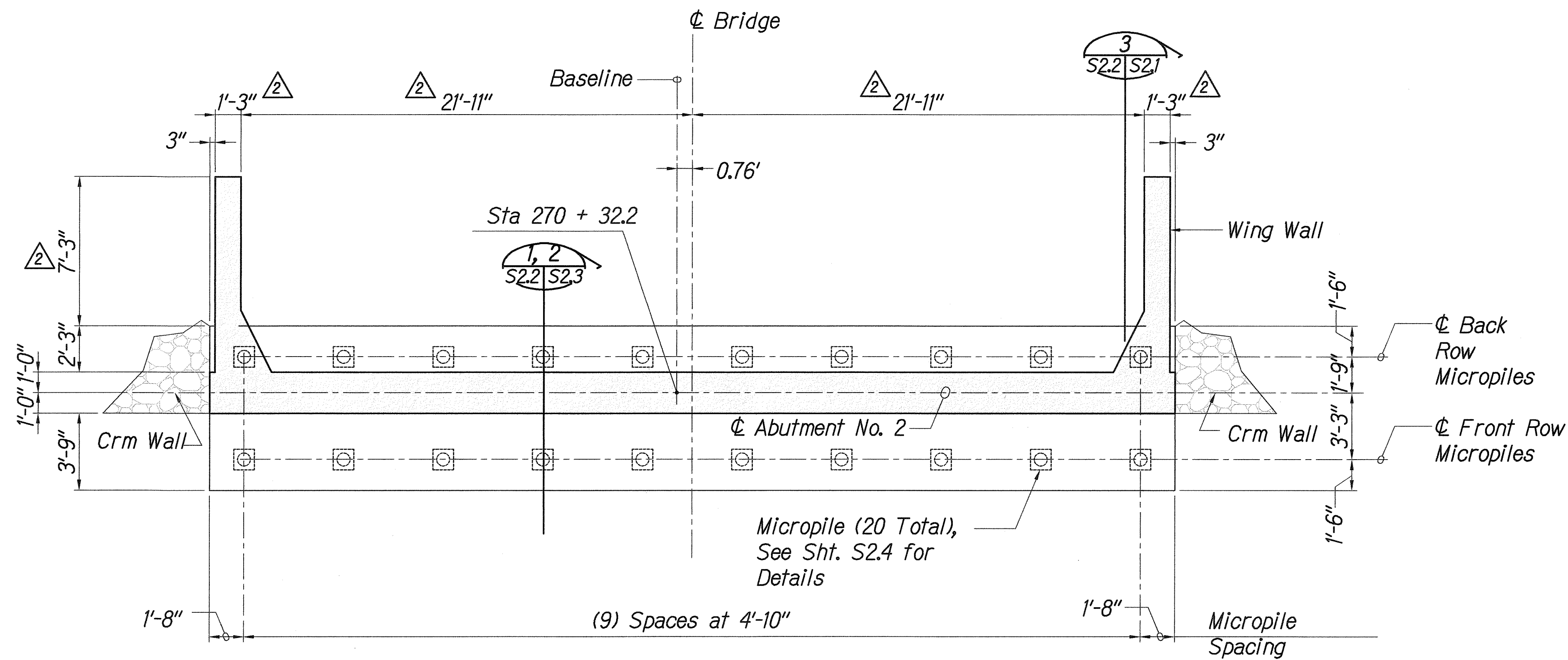


2
S1.4 | S2.1

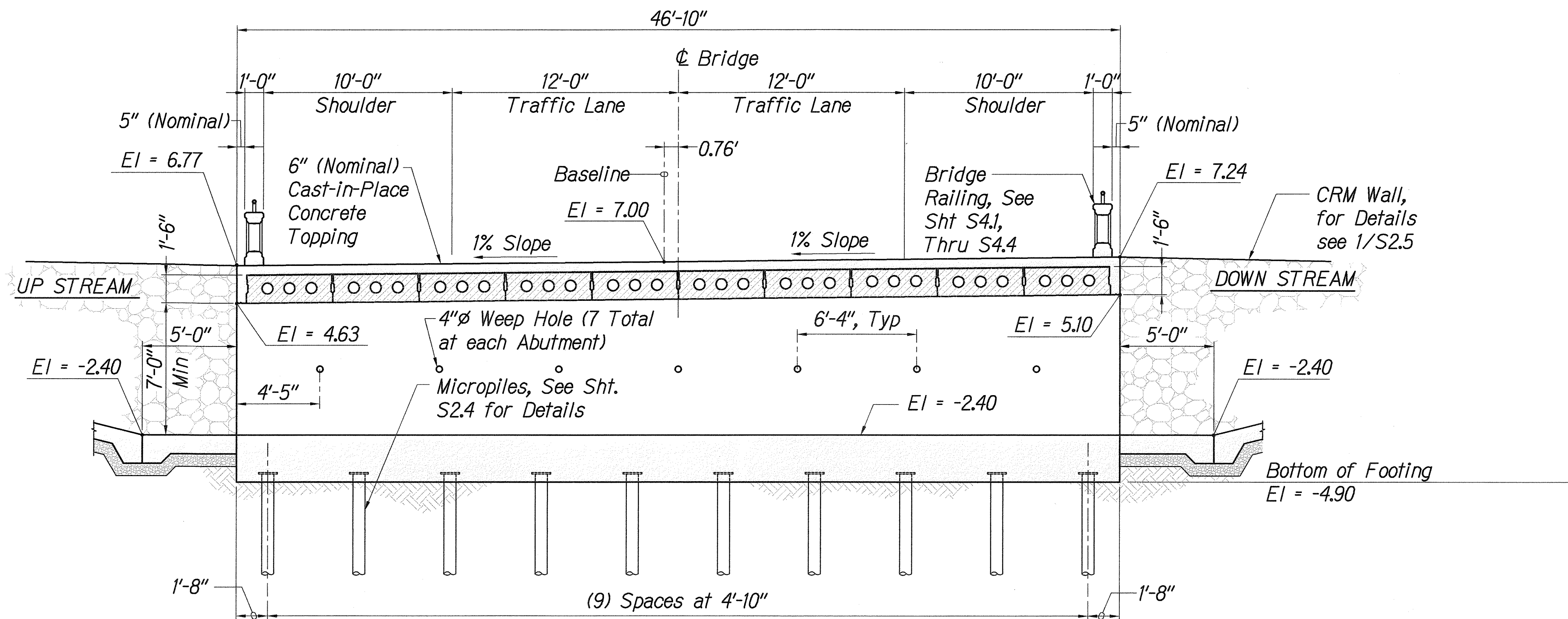
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 KEN KAZUO HAYASHIDA
 LICENSED
 PROFESSIONAL
 ENGINEER
 No. 6818-S
 HAWAII, U.S.A.
 EXP. DATE OF THE LICENSE 4/30/94
 THIS WORK WAS OBTAINED BY

P:\Drafting\2011-04-15_1528 Kawela Bridge\1528 5-2-1.dwg, 4/18/2011 3:14:20 PM, tamanaha

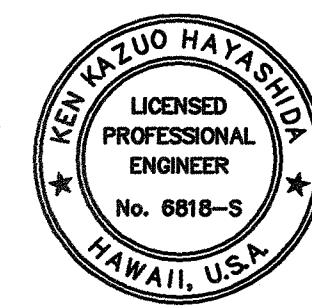
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 67	93



ABUTMENT NO. 2 - FOUNDATION PLAN
Scale: 1/4" = 1'-0"



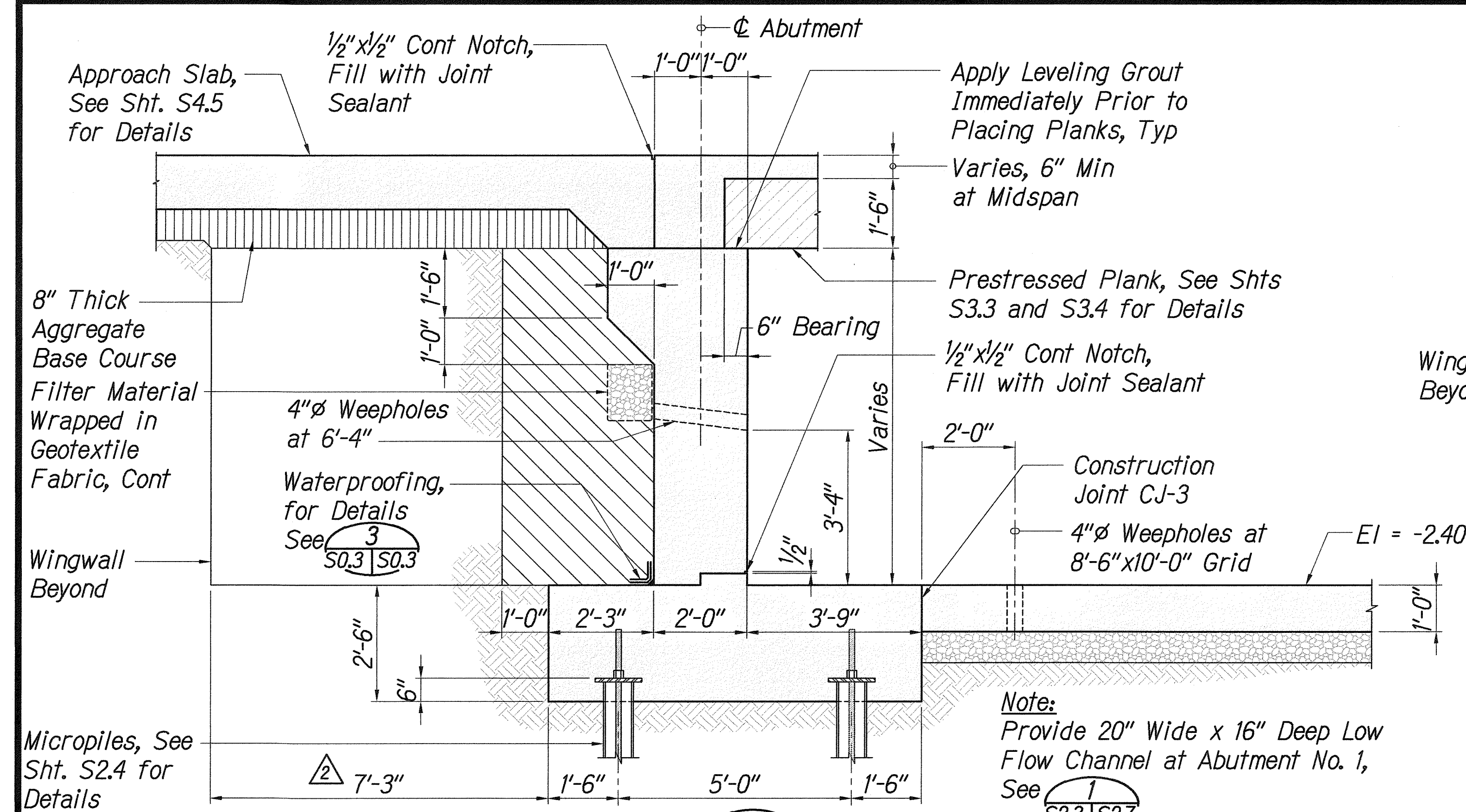
ABUTMENT NO. 2 - ELEVATION
Scale: 1/4" = 1'-0"



EXPIRATION DATE OF THE LICENSE 4/30/2012
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

2	Revised length and width of wingwalls, and associated dimensions
4/14/11	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ABUTMENT NO. 2 FOUNDATION	
PLAN AND ELEVATION	
KAMEHAMEHA V HIGHWAY	
Kawela Bridge Replacement	
Federal Aid Project No. BR-0450(8)	
Scale: AS NOTED	Date: June, 2010
SHEET No. S2.2 OF 93 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 68	93



Note: For abutment reinforcing, See S2.1 S2.2 S2.3

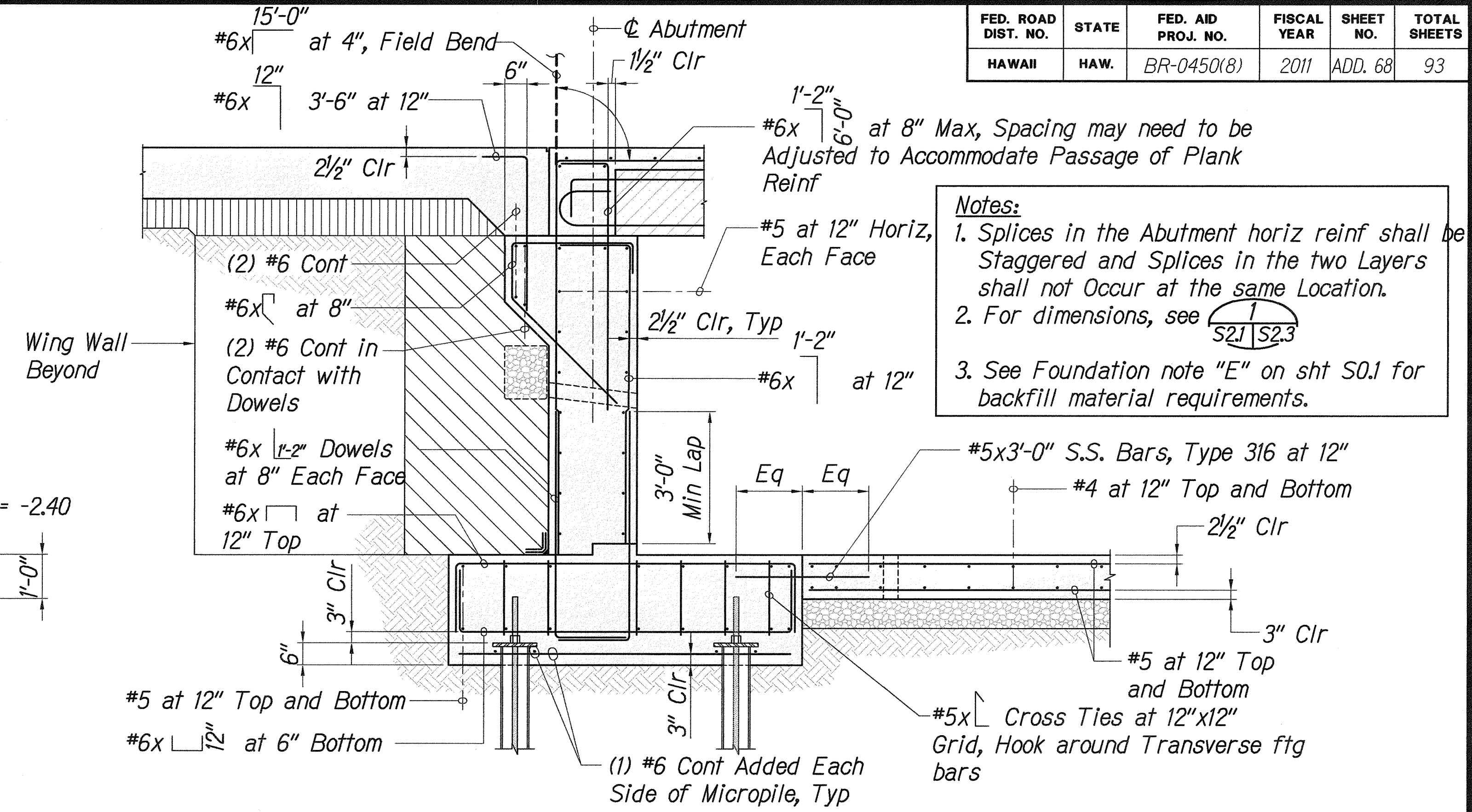
ABUTMENT SECTION SHOWING DIMENSIONS

Scale: 1/2" = 1'-0"

S2.1, S2.2 S2.3

Legend

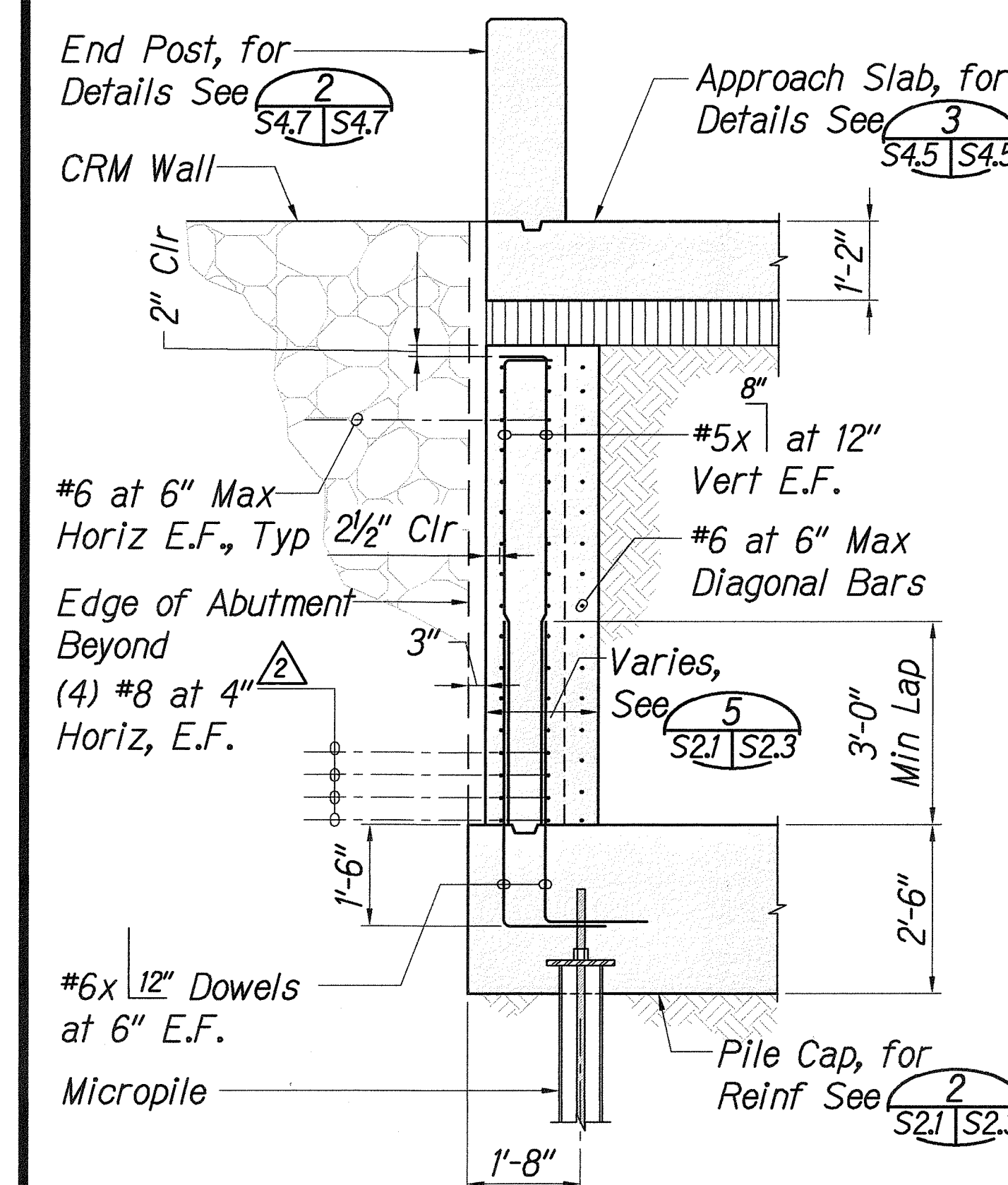
Structural backfill



ABUTMENT SECTION SHOWING REINFORCEMENT

Scale: 1/2" = 1'-0"

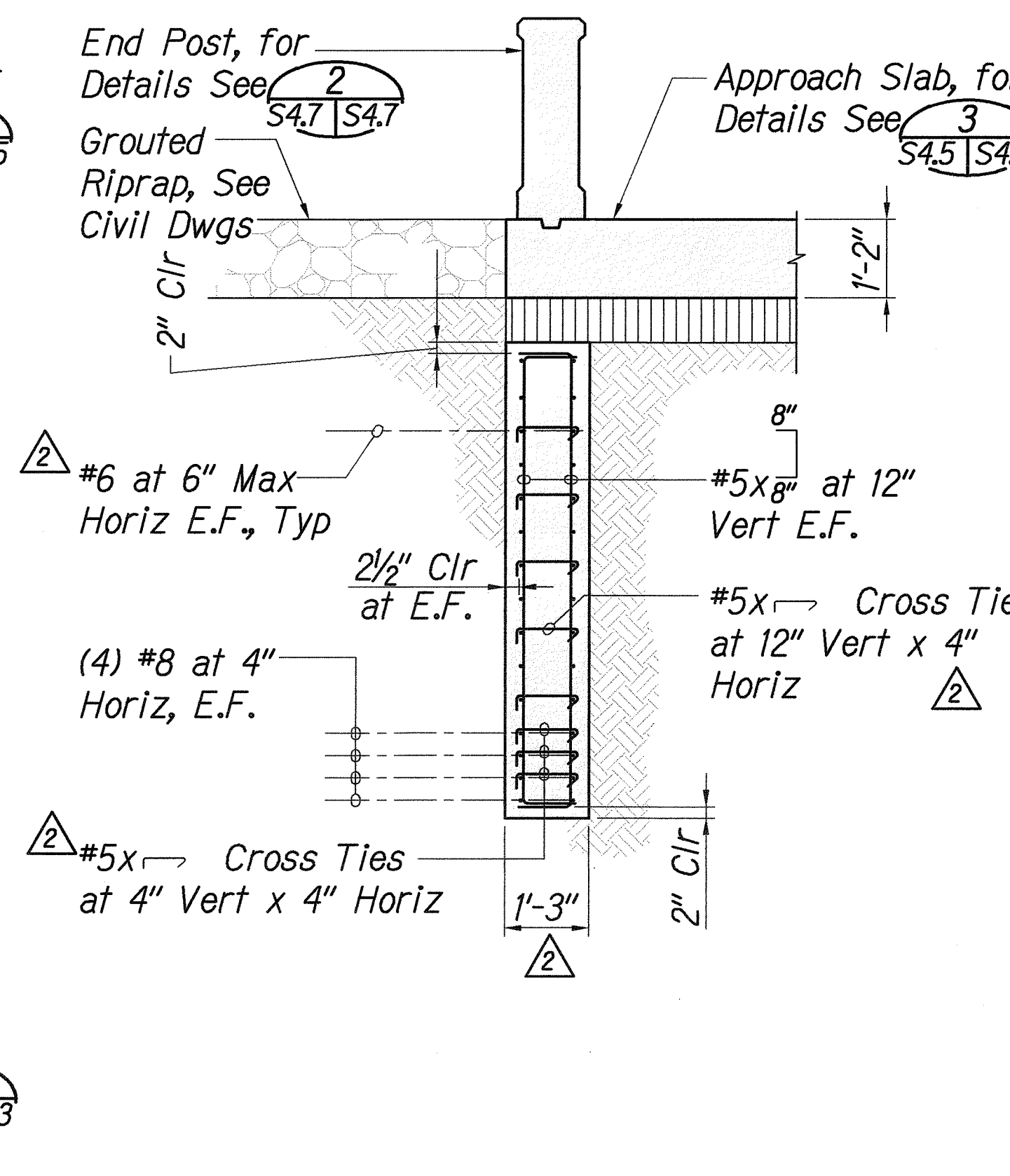
S2.1, S2.2 S2.3



WING WALL SECTION

Scale: 1/2" = 1'-0"

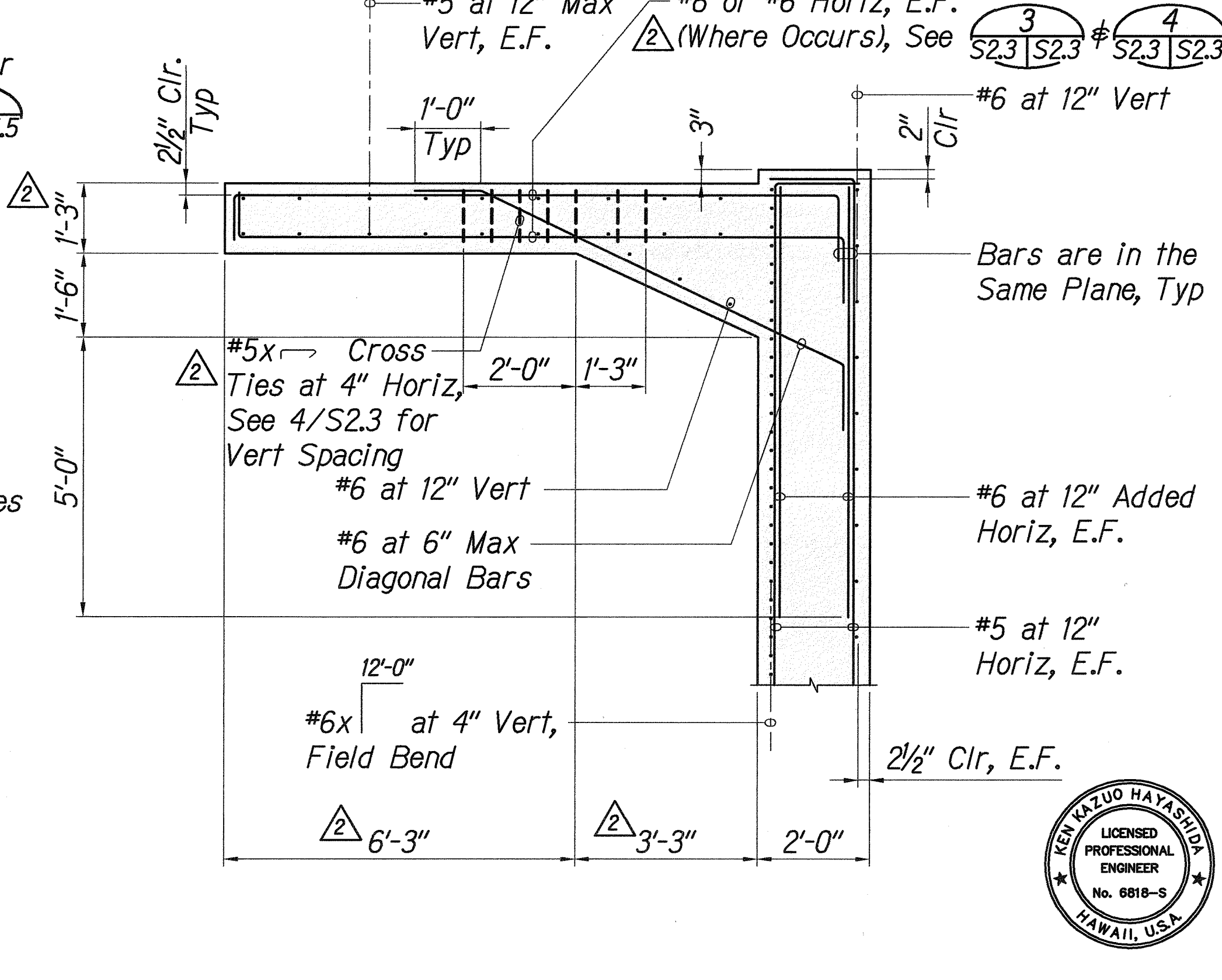
S2.1, S2.2 S2.3



SECTION

Scale: 1/2" = 1'-0"

S2.1 S2.3



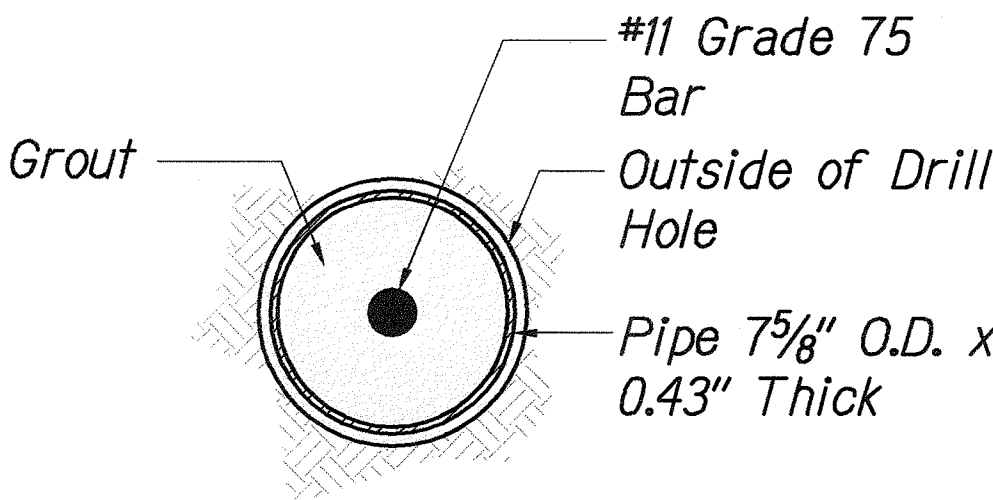
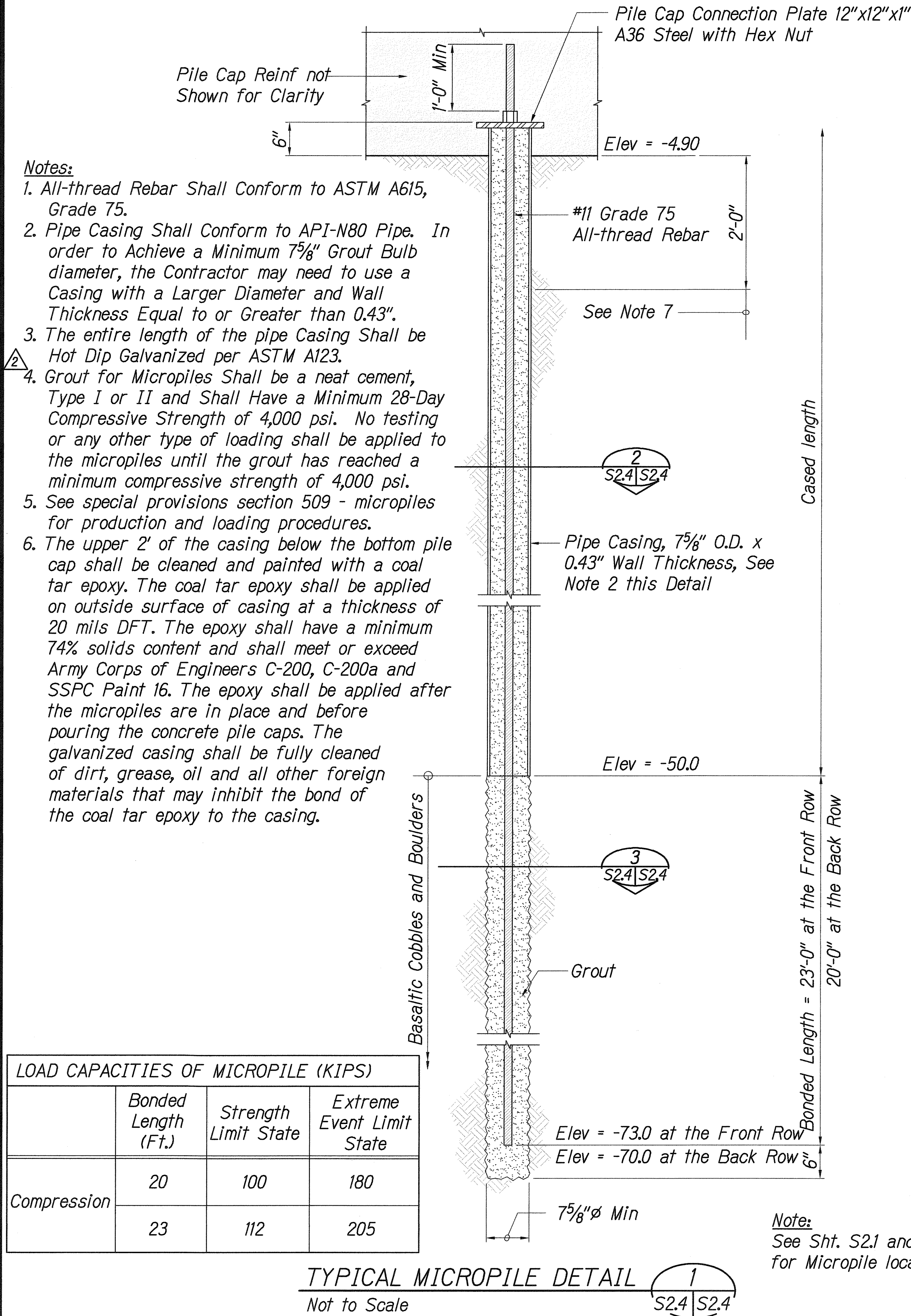
SECTION

Scale: 1/2" = 1'-0"

S2.1, S2.2 S2.3

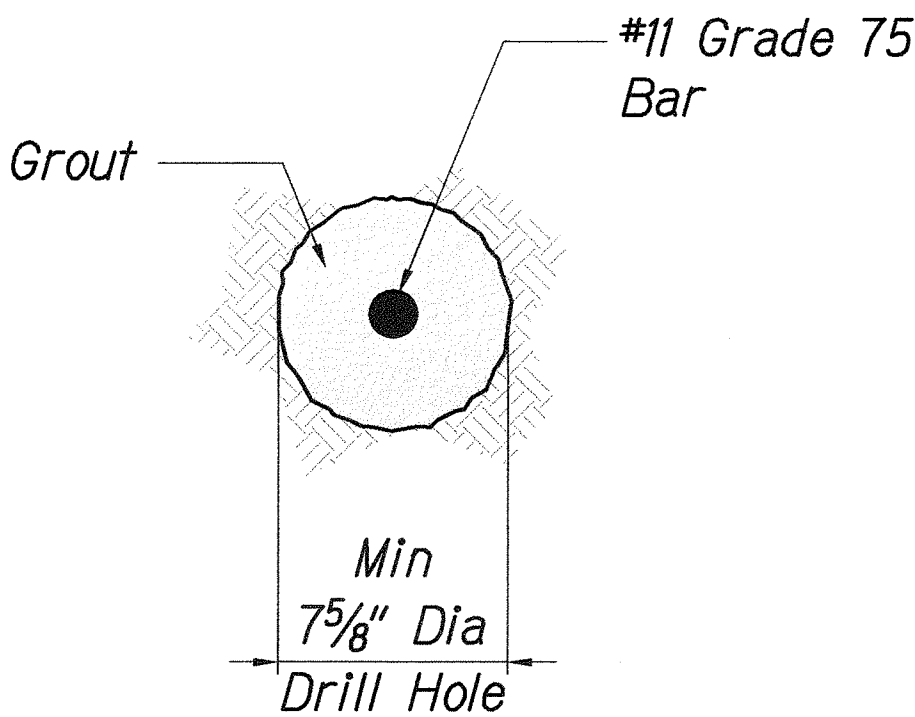
Revised length and width of wingwalls, and associated dimensions	4/14/11
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ABUTMENT SECTIONS AND DETAILS KAMEHAMEHA V HIGHWAY Kawela Bridge Replacement Federal Aid Project No. BR-0450(8)	
Scale: AS NOTED	Date: June, 2010
SHEET No. S2.3 OF 93 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 69	93



Note:
The annular space between the drill hole and the O.D. of the pipe casing shall be grouted throughout the cased length in order to provide lateral support of the micropile.

SECTION 2
Not to Scale S2.4 S2.4



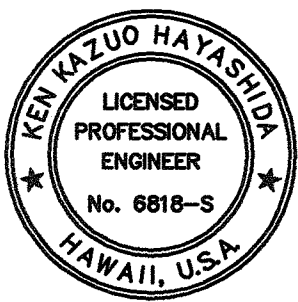
SECTION 3
Not to Scale S2.4 S2.4

PILE DESIGN LOAD IN COMPRESSION (KIPS)		MAXIMUM PILE TEST LOAD (KIPS)	
Service Limit	Strength Limit	Verification Test = 2.0 x Strength Limit	Proof Test = 1.0 x Strength Limit
86	110	220	110

Testing Notes:

- One (1) Pile Verification Load Test shall be performed, this pile shall be sacrificial. Bonded length for this pile shall be 23'-0".
- Four (4) Piles shall be Proof Tested, two on each Abutment.
- See Sheet S1.4 for locations of Test Piles.

4/14/11	Deleted Lateral Load Table and Previous Note 4.
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL MICROPILE DETAILS KAMEHAMEHA V HIGHWAY Kawela Bridge Replacement Federal Aid Project No. BR-0450(8)	
Scale: AS NOTED	Date: June, 2010
SHEET No. S2.4 OF 93 SHEETS	



Signature
EXPIRATION DATE OF THE LICENSE 4/30/2012
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION