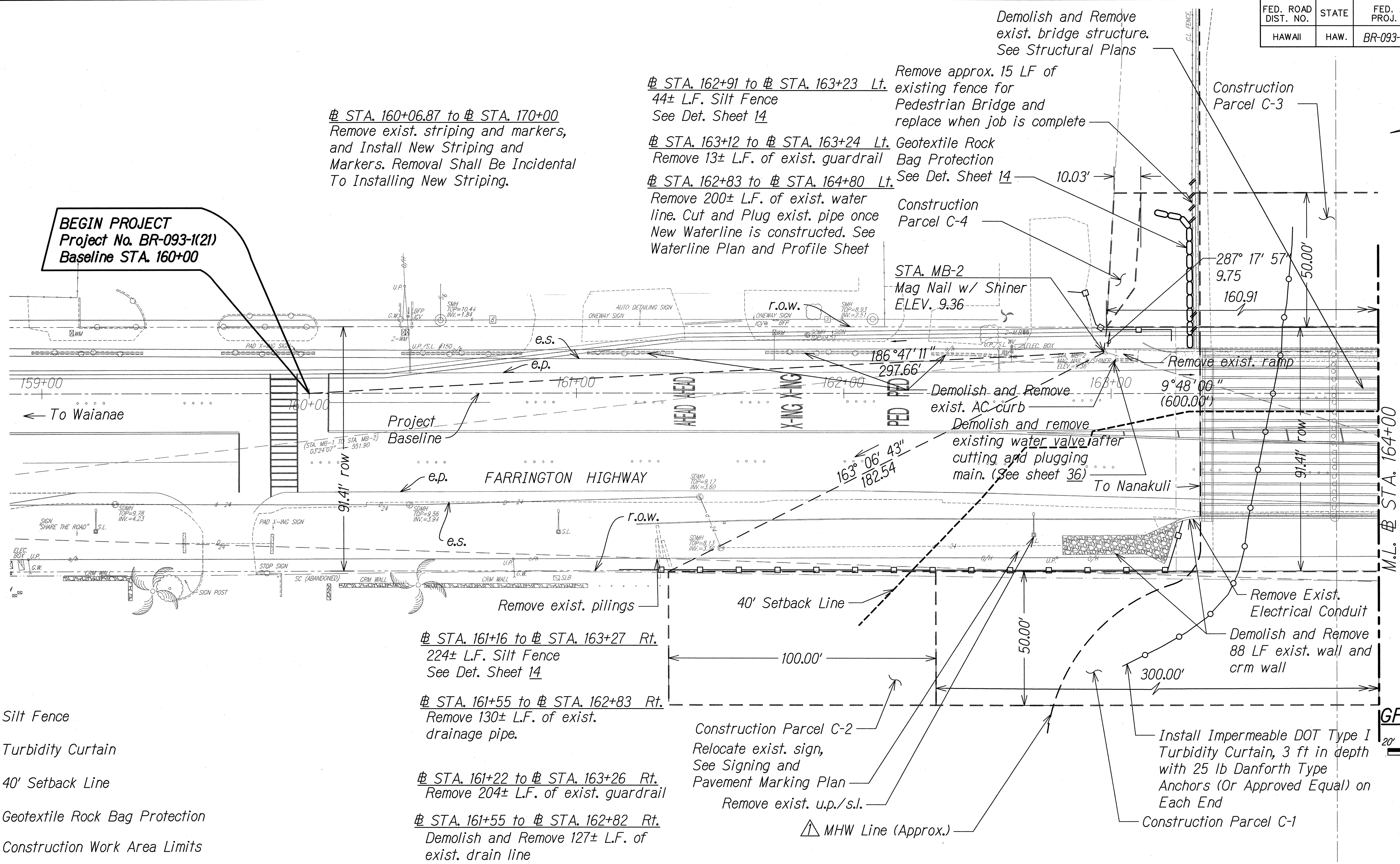


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	16	99



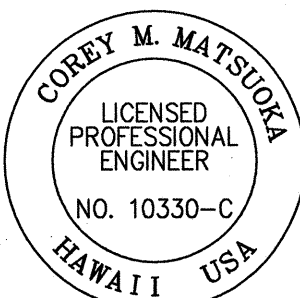
LEGEND:

- — □ — Silt Fence
- — ○ — Turbidity Curtain
- 40' Setback Line
- ○ ○ ○ Geotextile Rock Bag Protection
- Construction Work Area Limits

NOTES:

- Survey conducted by Control Point Surveying, Inc. dated 3/31/2009.
- Underground utilities shown are for information only. Contractor shall be responsible to verify prior to construction.
- Contractor shall demolish and remove existing Maipalaoa Bridge in Phases to allow two lanes of traffic flow (each direction) at all times. See Structural plans sheet 53.
- The erosion control measures represent only a minimum requirement. Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to HDOH, Federal EPA, USACE, Hawaii State and County agencies guidelines.

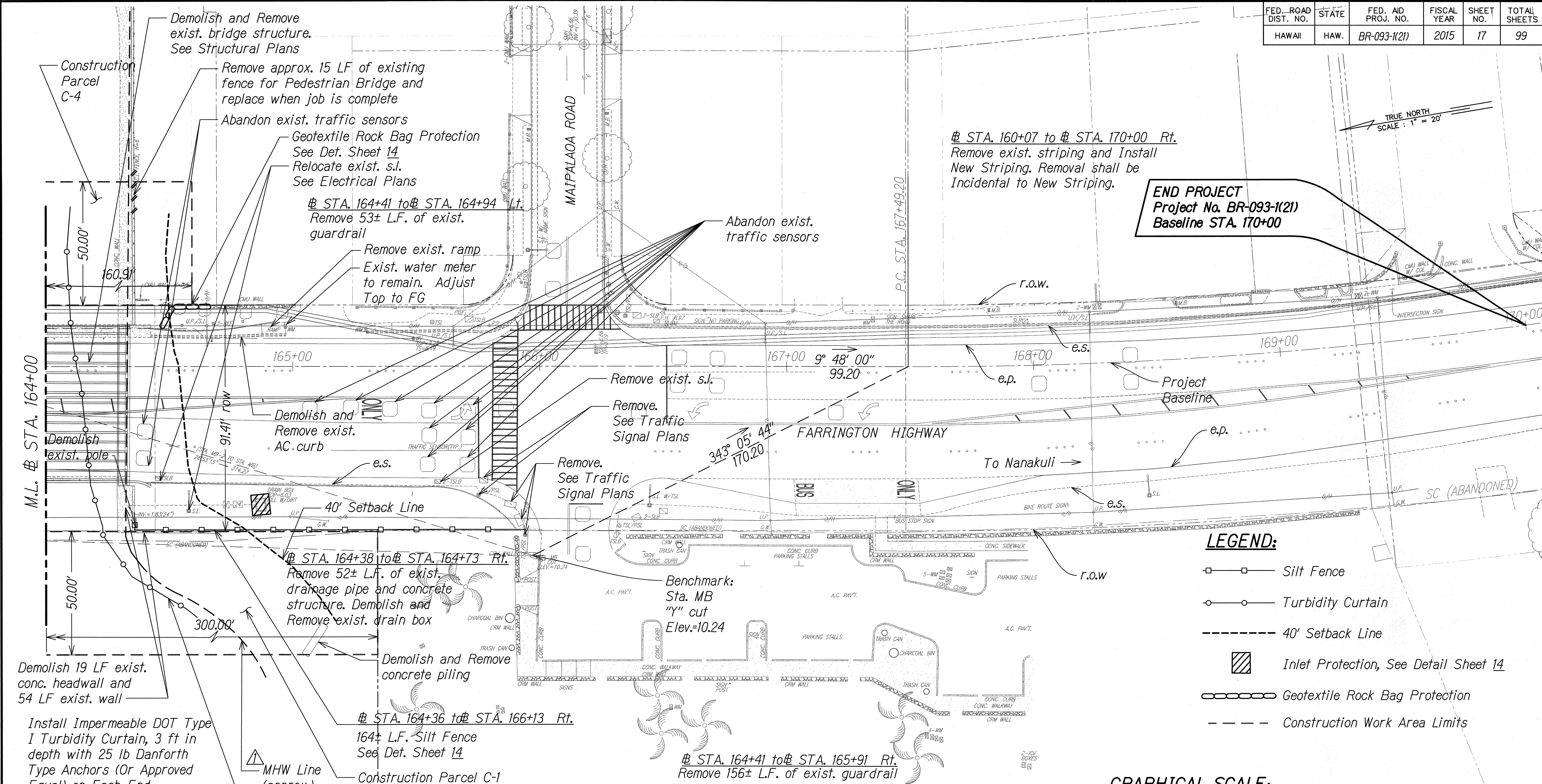
APPROVED
MANAGER AND CHIEF ENGINEER, BWS
(For work Affecting BWS Facilities in City/State R/W & BWS Easements only)
2-24-2015
DATE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature: [Signature]
4/30/16
EXPIRATION DATE OF THE LICENSE

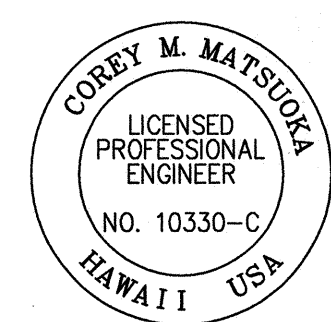
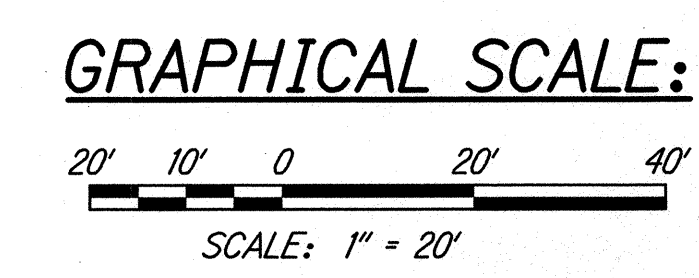
10/20/15	Revised Note 4, Add MHW Line
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
EXISTING CONDITION, DEMOLITION AND EROSION CONTROL PLAN	
FARRINGTON HIGHWAY Replacement of Maipalaoa Bridge Federal Aid Project No. BR-093-1(21)	
Scale: 1" = 20'	Date: JUNE 2015
SHEET No. 1 OF 2 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	17	99



- NOTES:**
- Survey conducted by Control Point Surveying, Inc. dated 3/31/2009.
 - Underground utilities shown are for information only. Contractor shall be responsible to verify prior to construction.
 - Contractor shall demolish and remove existing Maipalaoa Bridge in Phases to allow two lanes of traffic flow (each direction) at all times. See Structural Plans, Sheet 53.
 - The erosion control measures represent only a minimum requirement. Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to HDOH, Federal EPA, USACE, Hawaii State and County agencies guidelines.

- LEGEND:**
- Silt Fence
 - Turbidity Curtain
 - 40' Setback Line
 - Inlet Protection, See Detail Sheet 14
 - Geotextile Rock Bag Protection
 - Construction Work Area Limits

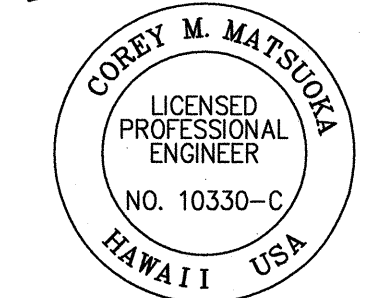
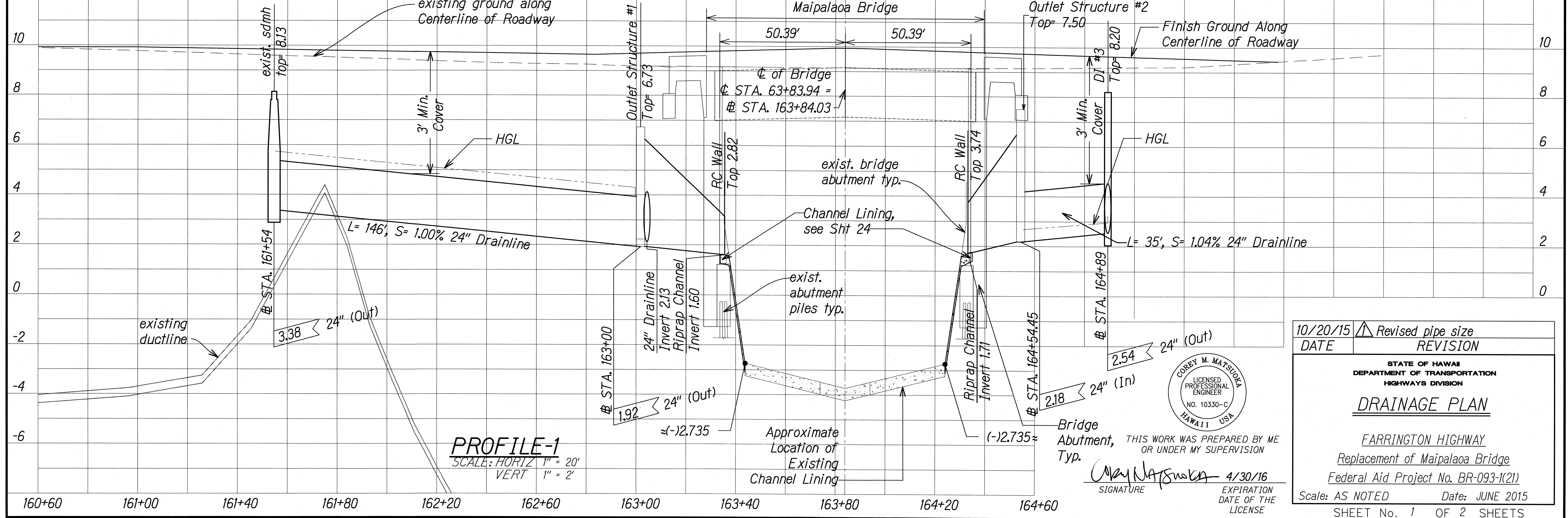
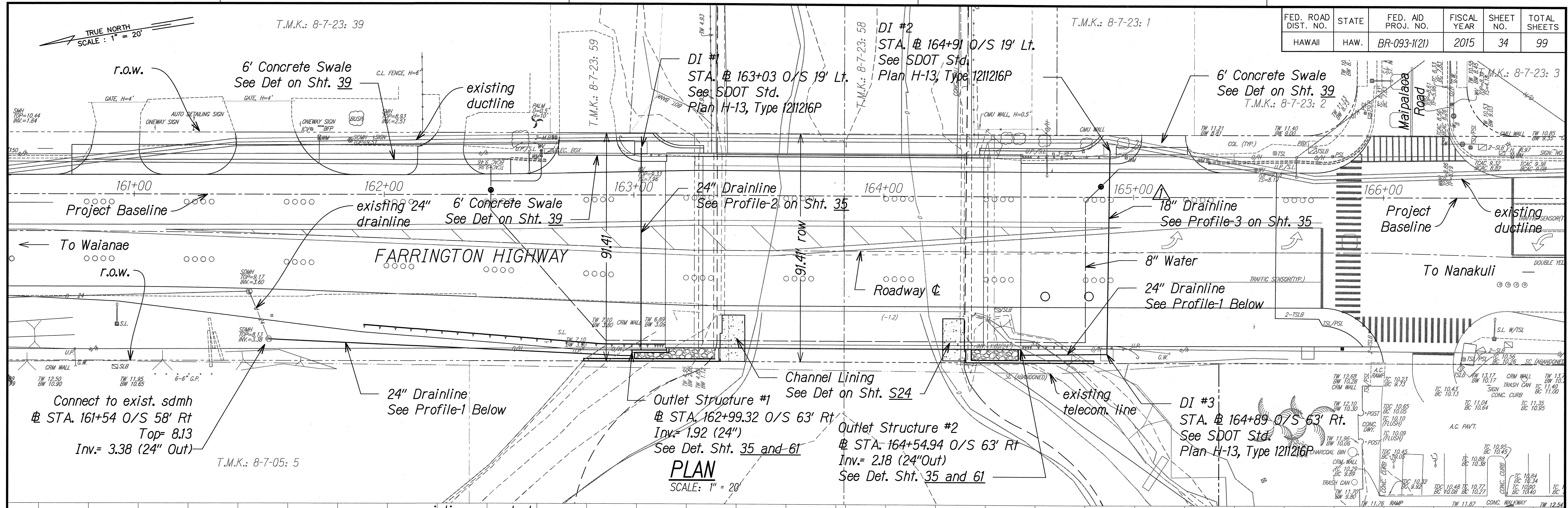


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OR UNDER MY SUPERVISION

Corey Matsuda 4/30/16
SIGNATURE EXPIRATION DATE OF THE LICENSE

10/20/15	Revised Note 4, Add MHW Line
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION EXISTING CONDITION, DEMOLITION AND EROSION CONTROL PLAN FARRINGTON HIGHWAY Replacement of Maipalaoa Bridge Federal Aid Project No. BR-093-1(21)	
Scale: 1" = 20'	Date: JUNE 2015
SHEET No. 2 OF 2 SHEETS	

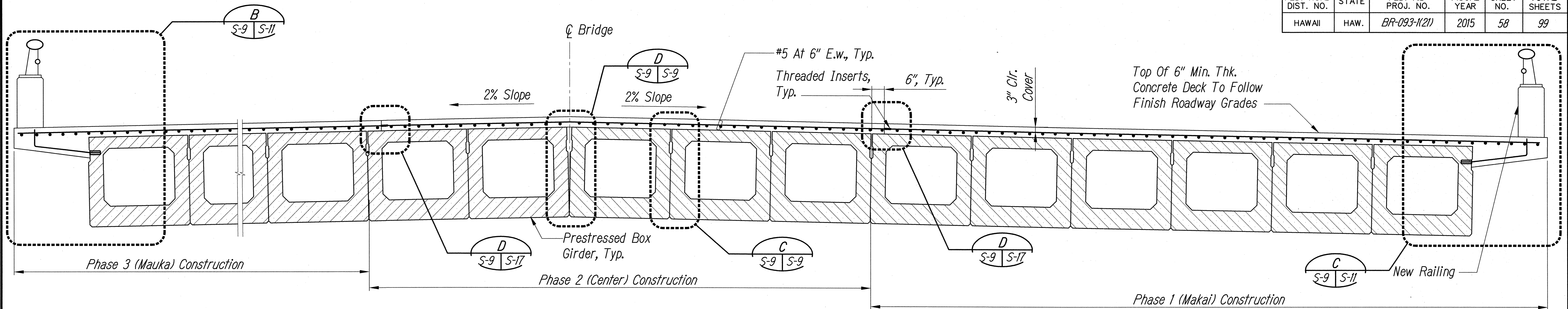
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	34	99



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 SIGNATURE: *Corey M. Matsuda* 4/30/16
 EXPIRATION DATE OF THE LICENSE

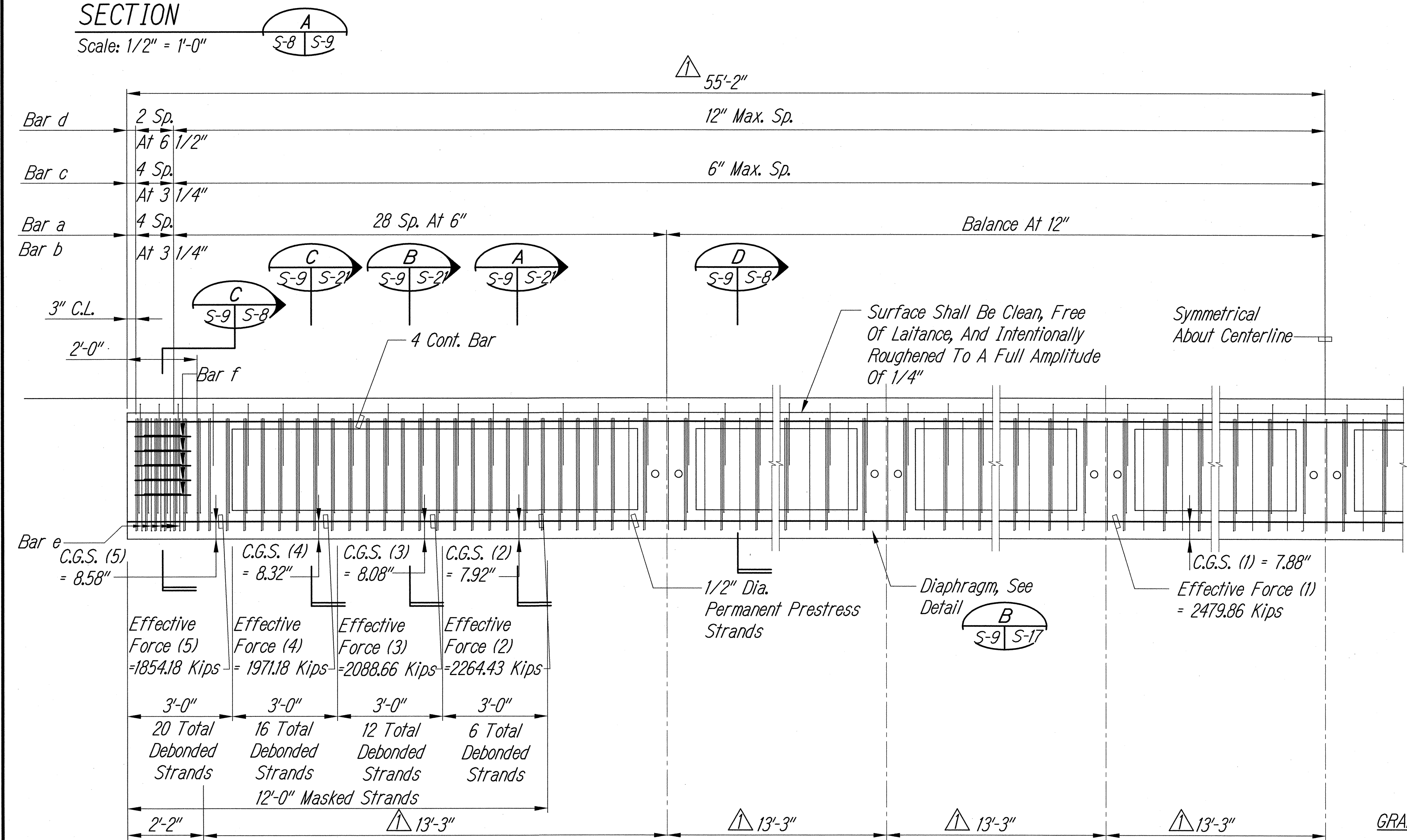
10/20/15	Revised pipe size
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRAINAGE PLAN FARRINGTON HIGHWAY Replacement of Maipalaoa Bridge Federal Aid Project No. BR-093-1(21) Scale: AS NOTED Date: JUNE 2015 SHEET No. 1 OF 2 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	58	99



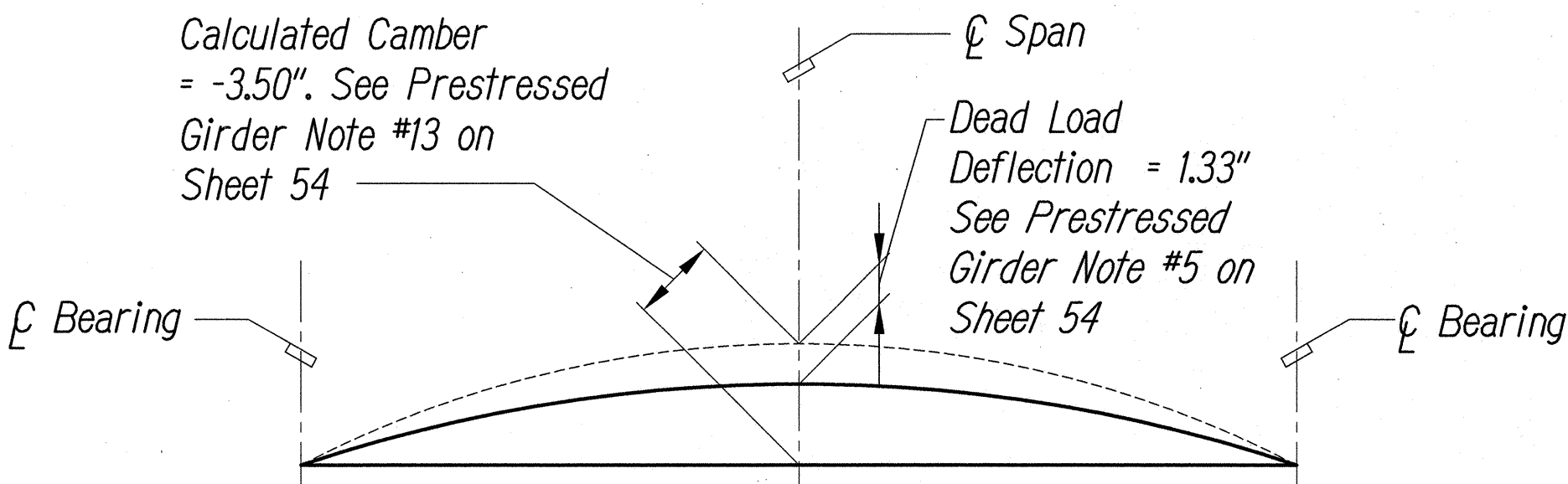
SECTION

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



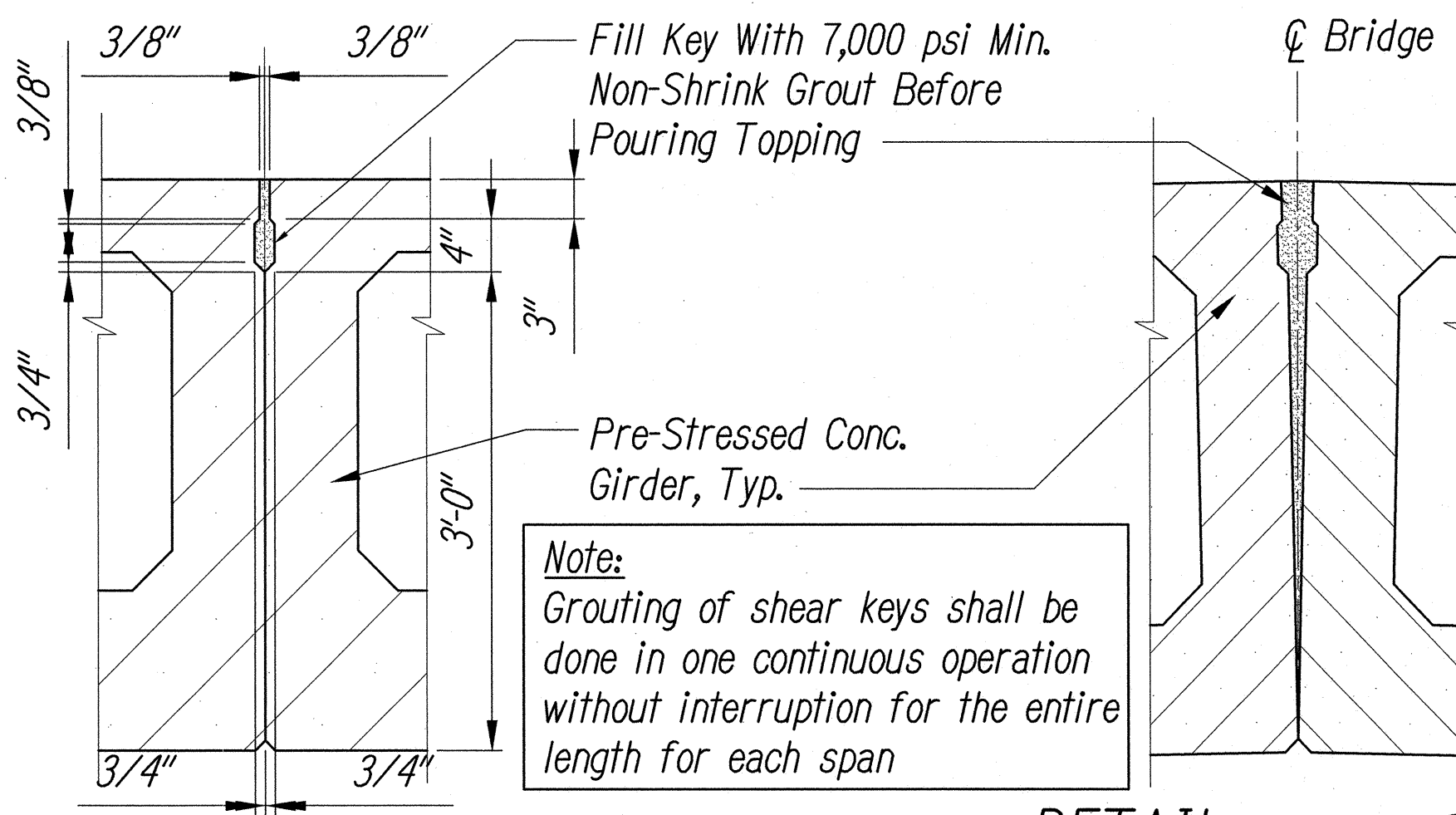
TYPICAL PRESTRESSED GIRDER ELEVATION

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



GIRDER CAMBER DIAGRAM

Not To Scale

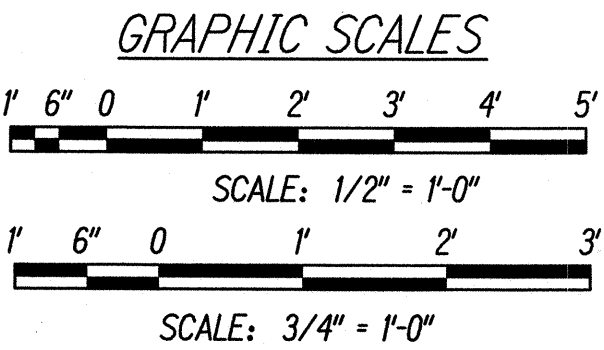


DETAIL

Scale: 1" = 1'-0"

DETAIL

Scale: 1" = 1'-0"



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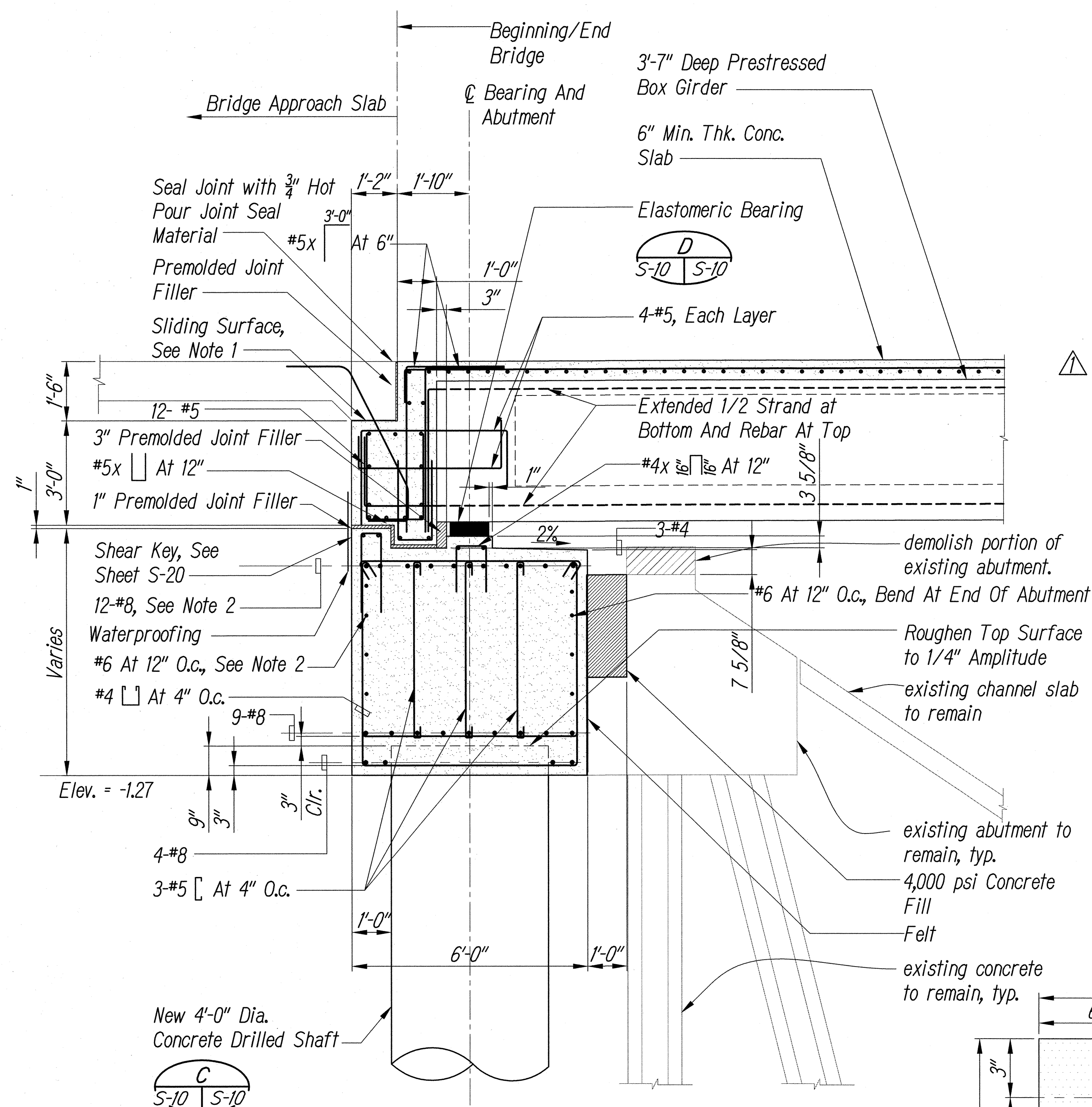
SIGNATURE

EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/20/15	Revised Girder Dimensions On Typ. Girder Elev. B

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	TYPICAL PRESTRESSED GIRDER ELEVATION AND SECTIONS
FARRINGTON HIGHWAY Replacement of Maipalaoa Bridge Federal Aid Project No. BR-093-1(21)	Scale: AS NOTED Date: JUNE 2015
SHEET No. S-9	OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	59	99

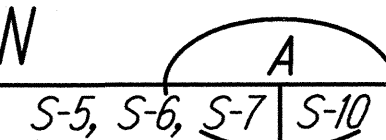


Notes:

1. Trowel Smooth And Place 2 Layers Of 4 Mil. Polyethylene Sheeting As Bond Breaker.
2. See Detail D, Sheet S-17 For All Horizontal Rebar Joints Between Construction Phases.

TYP. ABUTMENT SECTION

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

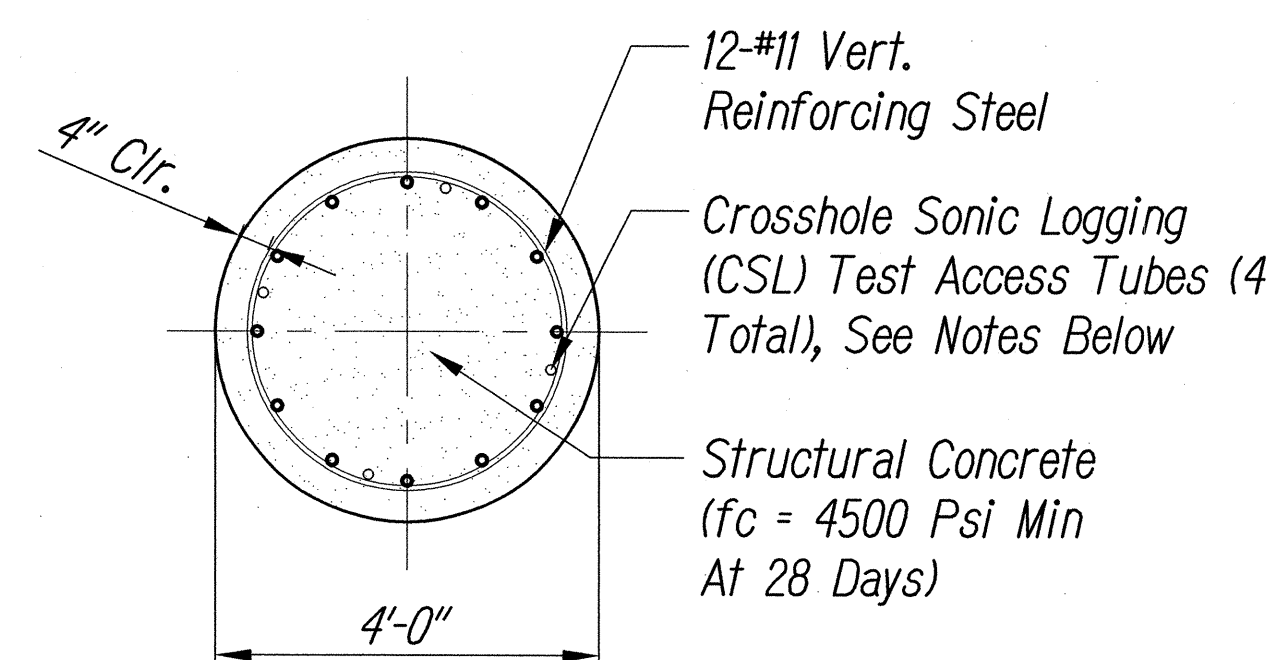


CSL Tube Notes:

1. Install CSL tubes centered between drilled shaft vertical bars.
2. CSL tubes shall be placed 90 degrees apart.
3. Securely tie CSL tubes to inside of the reinforcing cage.

Elastomeric Bearing Pad Notes:

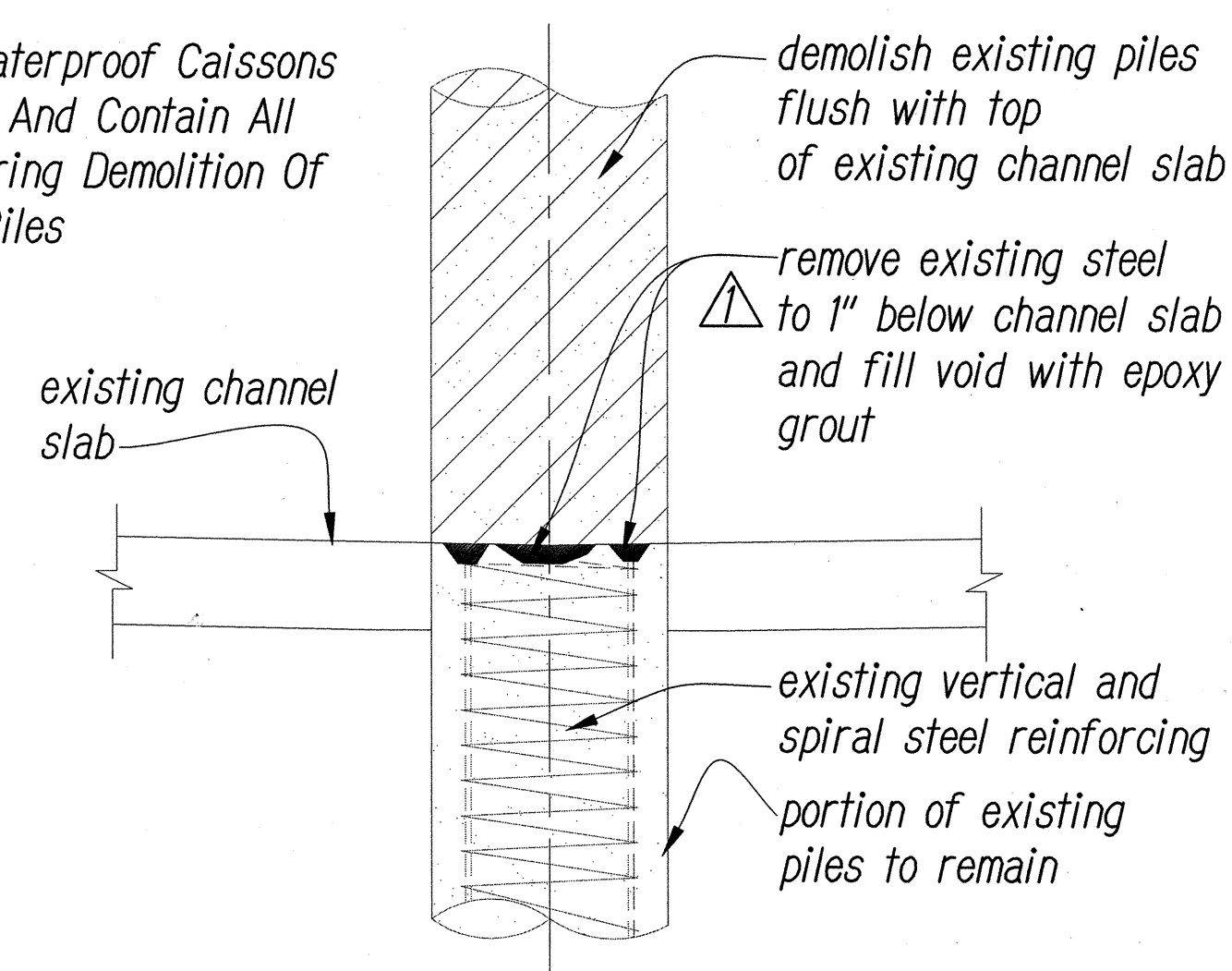
1. Elastomer shall have a hardness of 60 durometer.
2. Steel laminates shall conform to ASTM A 1011 Grade 36 or better.
3. Load plate shall conform to AASHTO M 270 Grade 36.
4. Provide two bearing pads at each end of each girder.



SECTION "A" - "A"

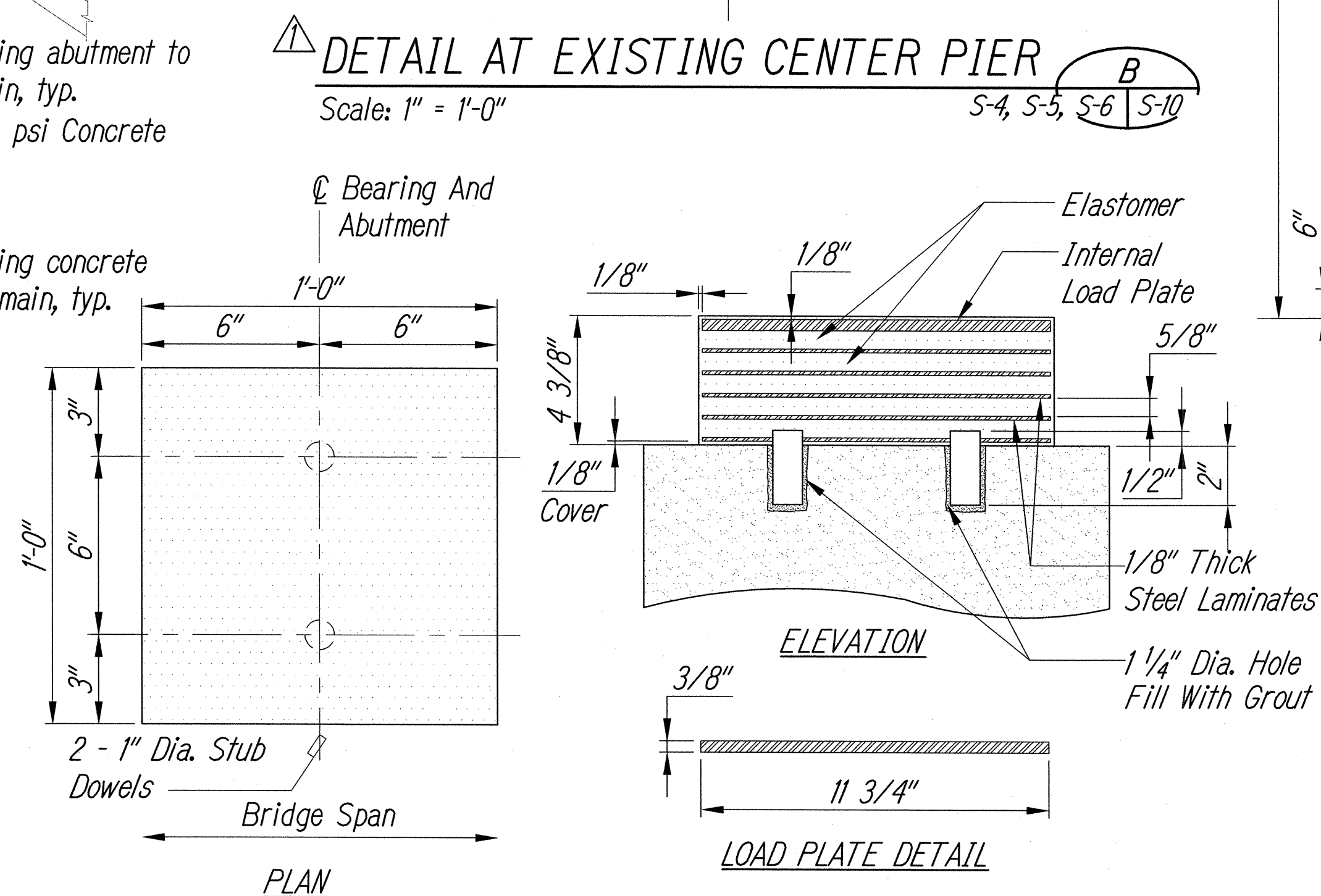
1 Note:

*Provide Waterproof Caissons
To Isolate And Contain All
Debris During Demolition Of
Existing Piles*



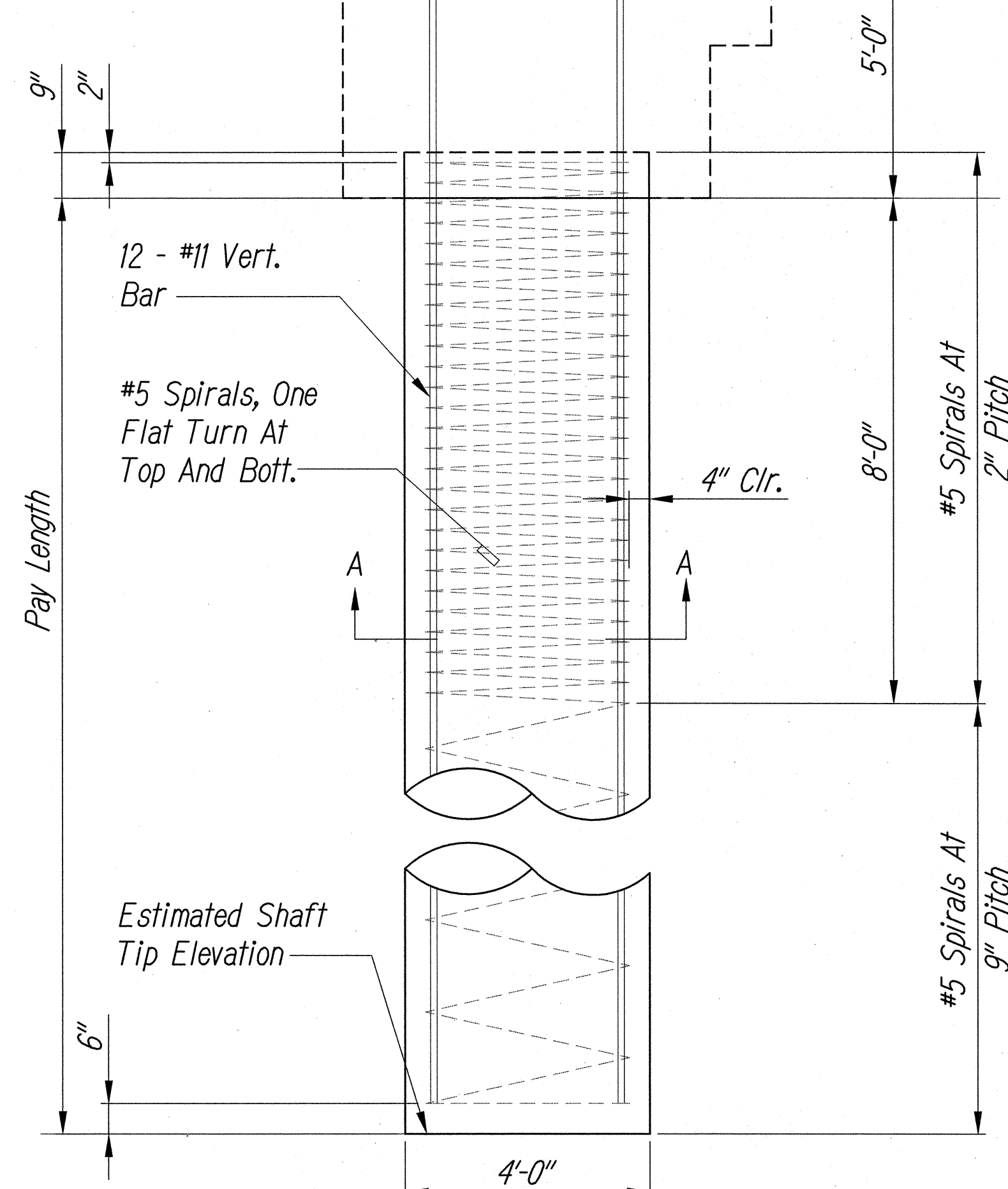
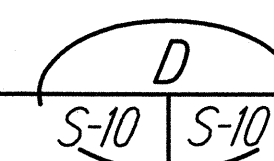
△ *DETAIL AT EXISTING CENTER PIER*

Scale: 1" = 1'-0"



TYP. ELASTOMERIC
BEARING PAD DETAIL

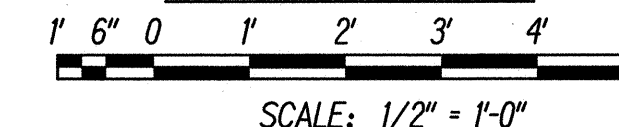
Not To Scale



DRILLED SHAFT DETAIL

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

GRAPHIC SCALES



SCALE: $1/2'' = 1'-0''$

10/20/15	1 Rev. Det. B, Added Note
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS AND DETAILS

FARRINGTON HIGHWAY

Replacement of Maipalaoa Bridge

Federal Aid Project No. BR-093-1(21)

Scale: AS NOTED

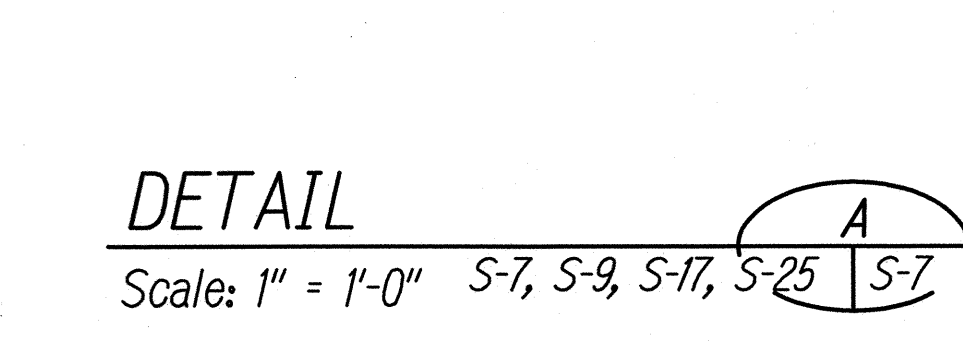
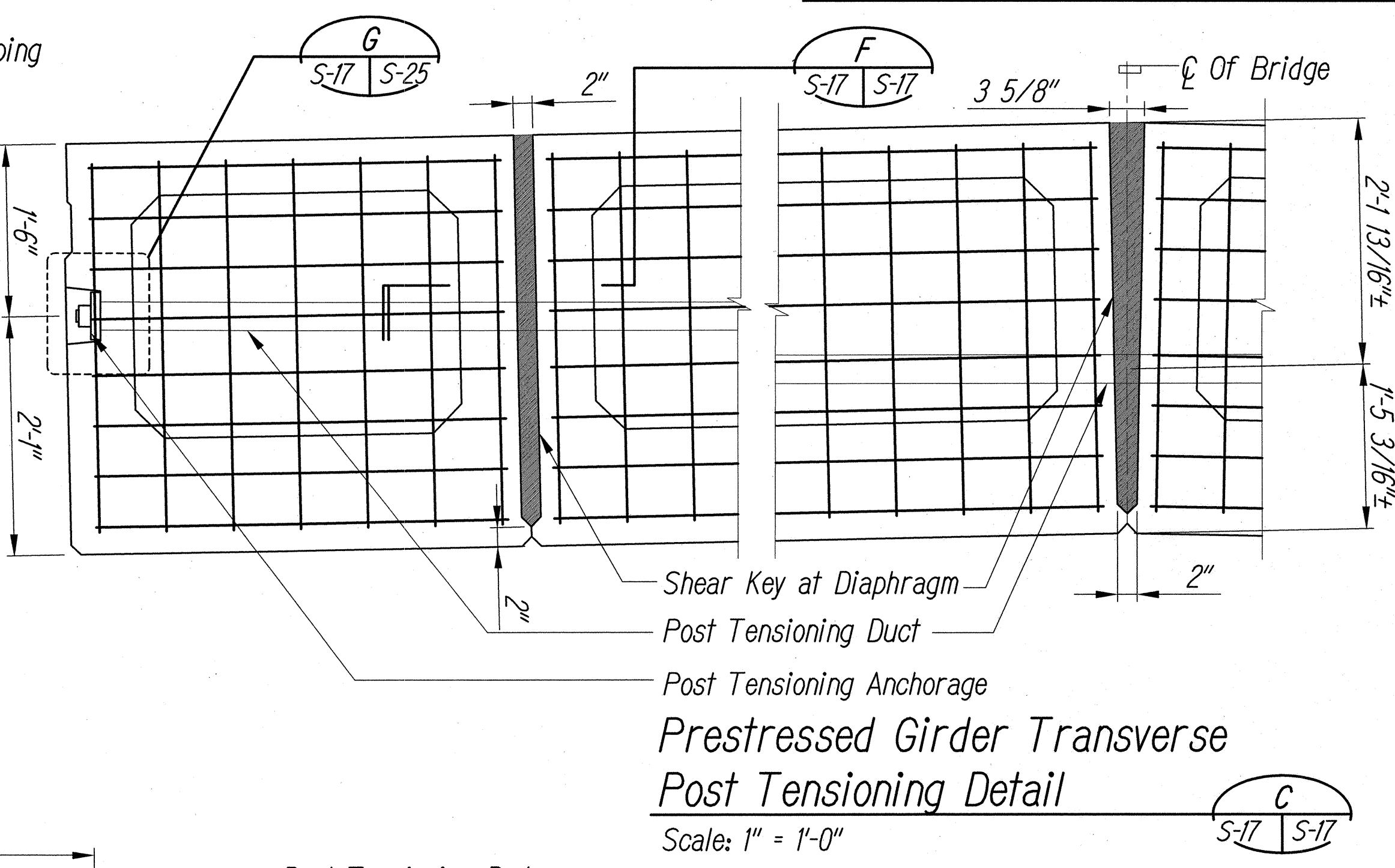
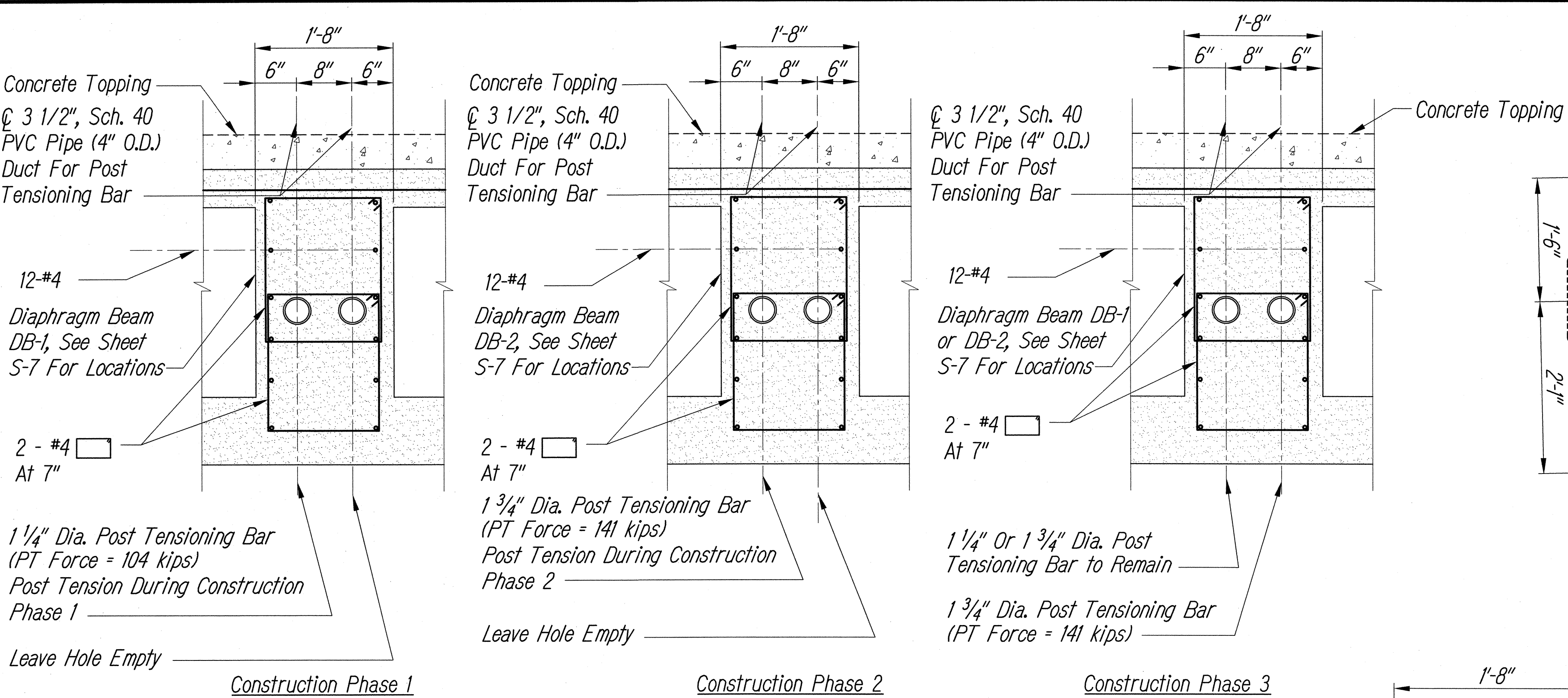
Date: JUNE 2015

SHEET No. *S-10* OF 26 SHEETS

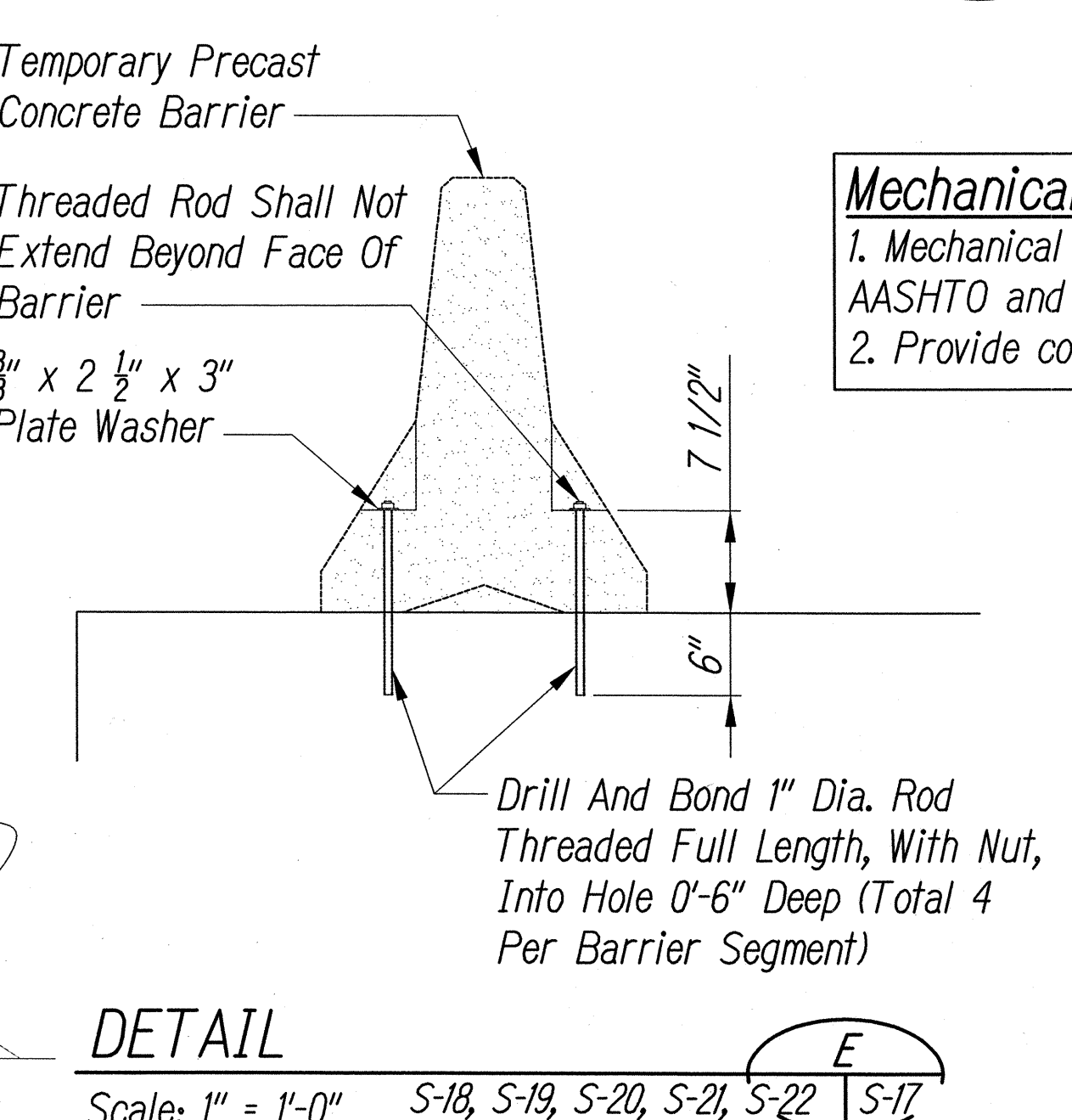
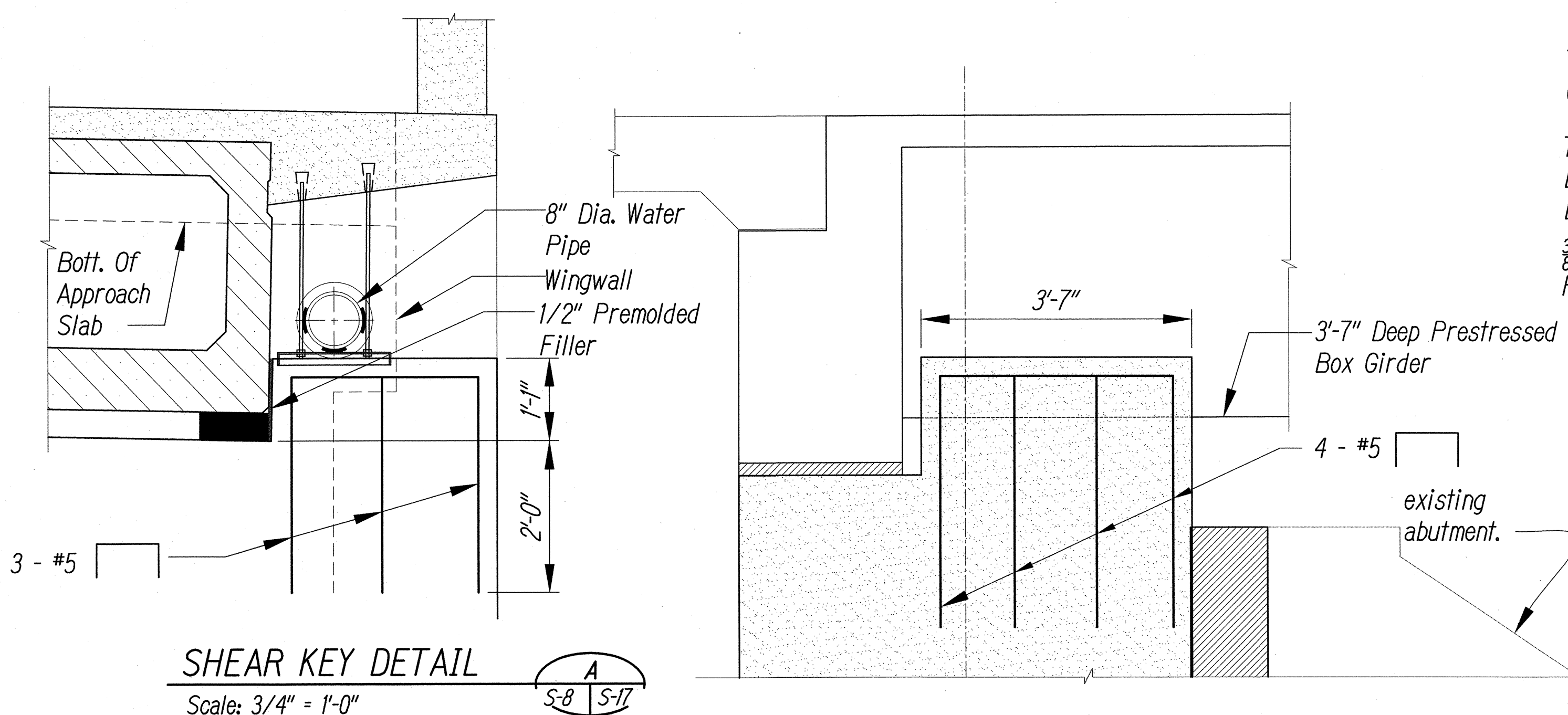
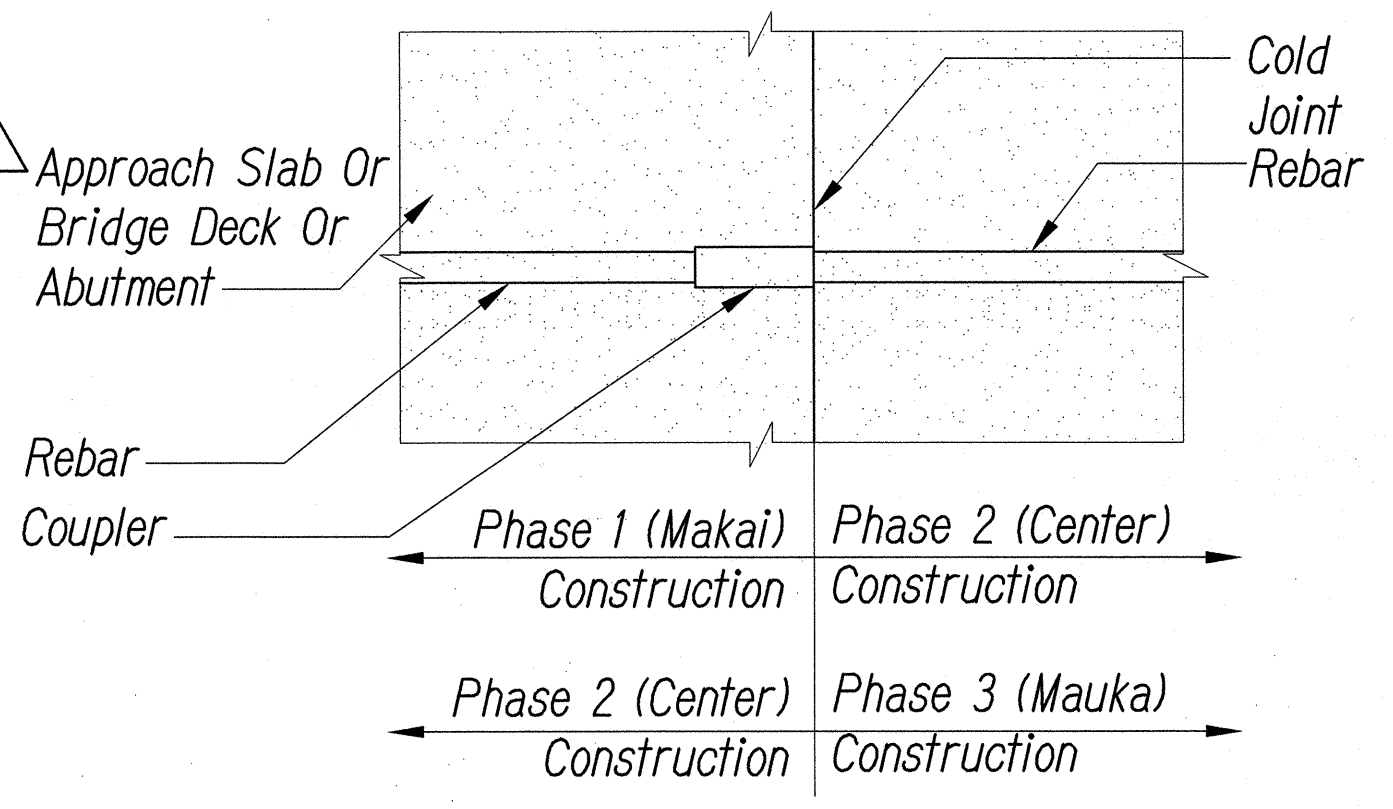
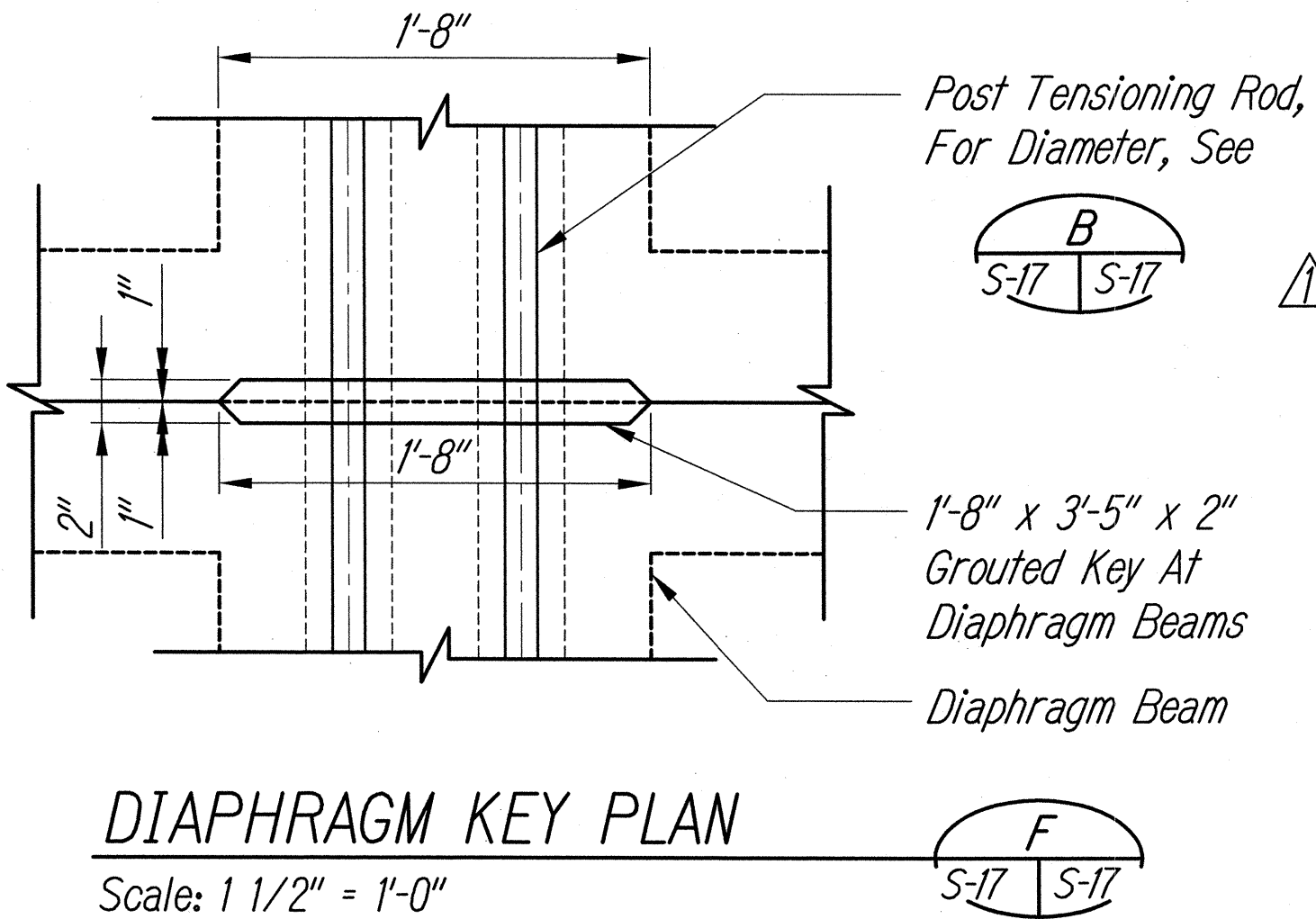
ADD. 59

ADD. 59

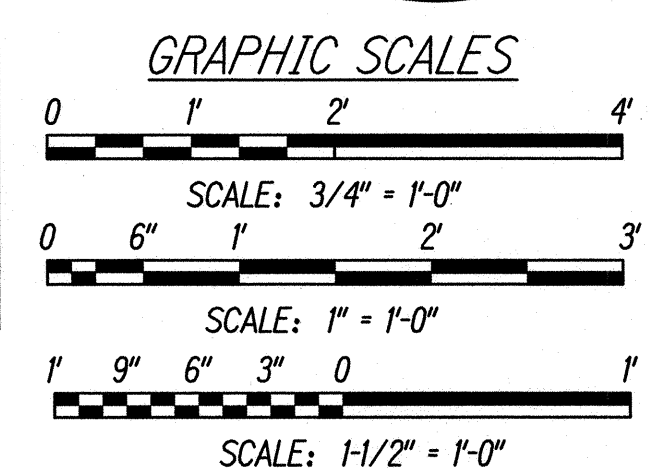
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	66	99



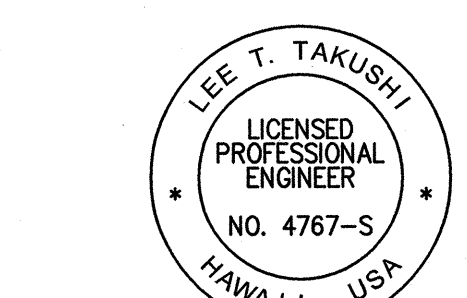
- Post Tensioning Notes:**
1. Post tensioning bars shall be ASTM A722, Type II ($F_y = 150$ ksi)
 2. Grout shall have a 28 day compressive strength of 5,000 psi.
 3. Grout all keys between box girder diaphragms prior to post tensioning.
 4. Install post tensioning bars in Diaphragm Beam DB-1 during Construction Phase 1. Grout duct during Construction Phase 3.
 5. Install post tensioning bars in Diaphragm Beam DB-2 during Construction Phase 2. Grout duct during Construction Phase 3.
 6. Grout all ducts after to post tensioning.
 7. Stressing of post tensioning bar shall be per Post Tensioning Institute.



- Mechanical Coupler Notes:**
1. Mechanical couplers shall meet the requirements of AASHTO and standard specification section 602.03.
 2. Provide construction joint per Detail F, Sheet S-11.



10/20/15	Revised Note On Detail D
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SECTIONS AND DETAILS	
FARRINGTON HIGHWAY	
Replacement of Maipalaoa Bridge	
Federal Aid Project No. BR-093-1(21)	
Scale: AS NOTED	Date: JUNE 2015
SHEET No. S-17 OF 26 SHEETS	

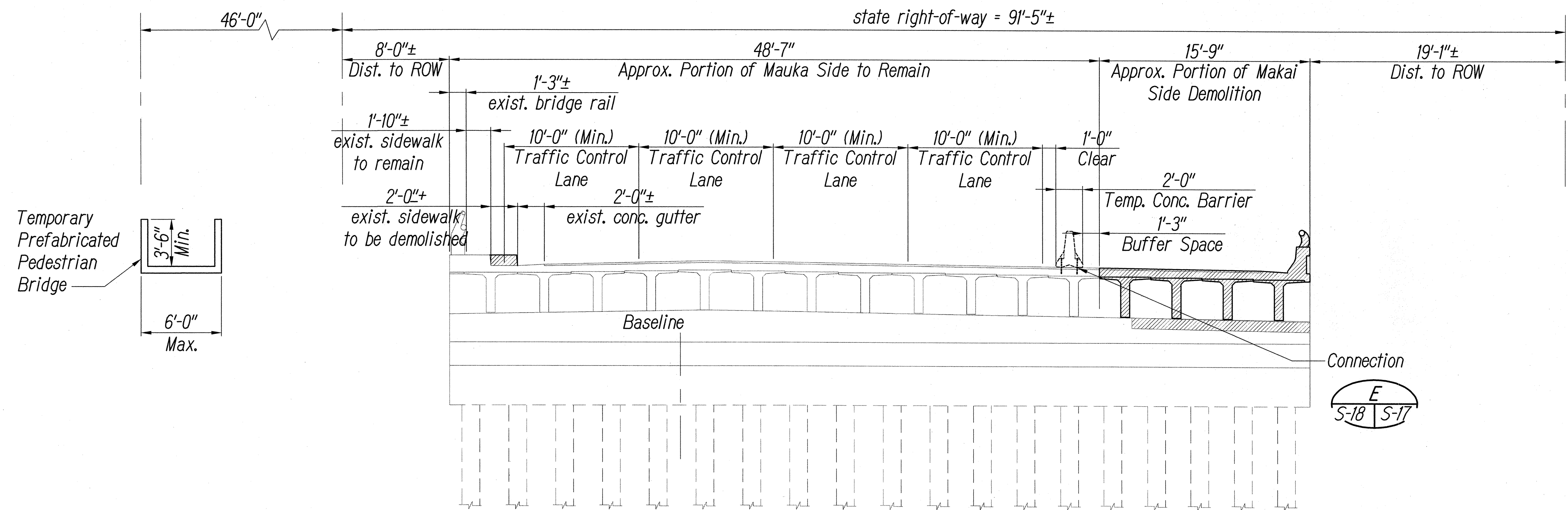


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Signature: [Signature] 4/30/16
EXPIRATION DATE OF THE LICENSE

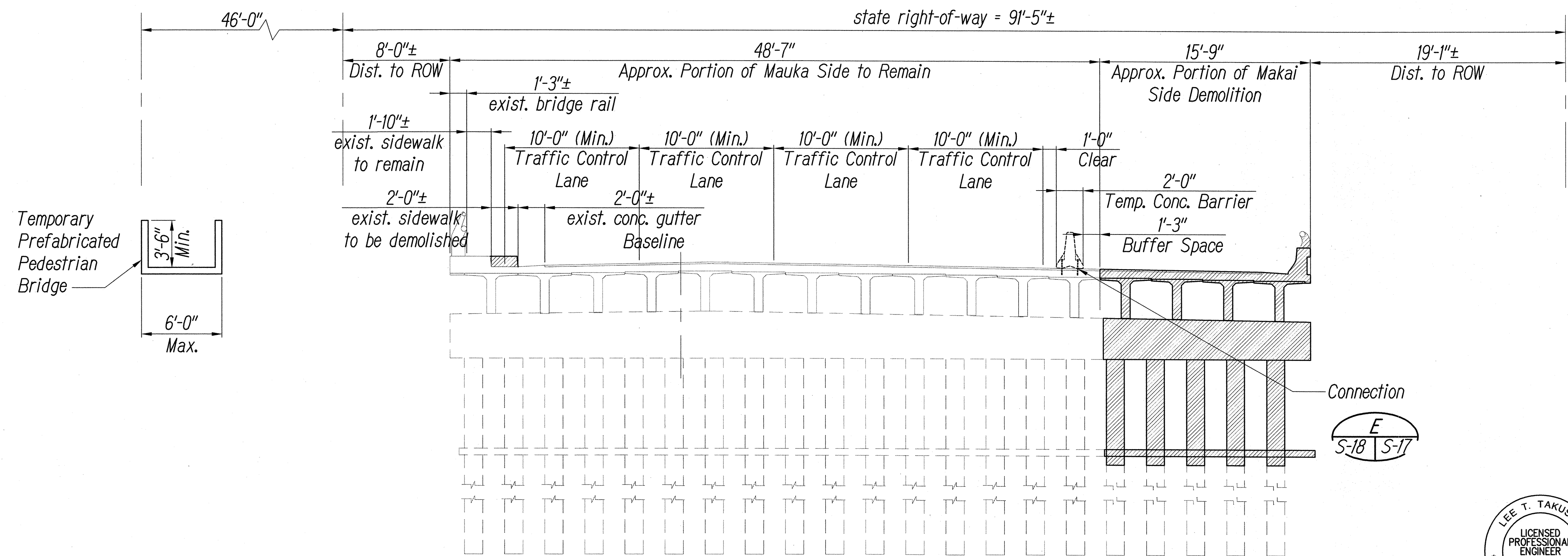
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	No.
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	67	99



DEMOLITION BRIDGE SECTION AT ABUTMENT

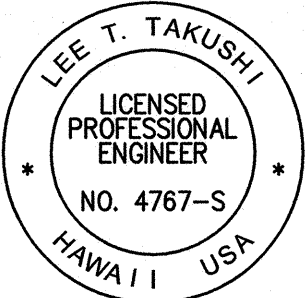
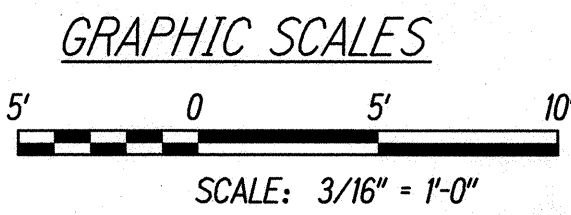
Scale: 3/16" = 1'-0"



DEMOLITION SECTION AT CENTER PIER

Scale: 3/16" = 1'-0"

Note:
Provide Waterproof Caissons To Isolate And Contain All Debris During Demolition Of Existing Piles



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SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 4/30/16

10/20/15	Added Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION BRIDGE DEMOLITION PHASE 1 SECTIONS FARRINGTON HIGHWAY Replacement of Maipalaoa Bridge Federal Aid Project No. BR-093-1(21)	
Scale: AS NOTED	Date: JUNE 2015
SHEET No. S-18	OF 26 SHEETS

DATE	DESIGNED BY	CHECKED BY
NO.	QUANTITIES BY	
ORIGINAL PLAN	NOTE BOOK	

Pedestrian bridge shall be designed in conformance with specification section 695 and with the requirements of "LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition", 2009.

PEDESTRIAN BRIDGE NOTE:

Pedestrian bridge shall be designed in accordance with specification section 695 and the requirements of "LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition", 2009.

TEMPORARY PEDESTRIAN WALKWAY FOUNDATION

Scale: 1/16" = 1'-0"

DIST. NO.	PROJ. NO.	YEAR	NO.
HAWAII	HAW.	BR-093-1(21)	2015 75

Scale: $1/16'' = 1'-0''$


*All Temporary Walkway Components
Including Concrete Footing, Posts
and Anchors Shall be Removed
After Completion of Construction*

—Walkway Level

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

SECTION

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




STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TEMPORARY PEDESTRIAN
WALKWAY FOUNDATION

FARRINGTON HIGHWAY
Replacement of Maipalaoa Bridge
Federal Aid Project No. BR-093-1(21)

Scale: AS NOTED Date: JUNE 2015
SHEET No. S-26 OF 26 SHEETS

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 4/30/16
SIGNATURE EXPIRATION DATE
OF THE LICENSE

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

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

Technical drawing of Footing -1, showing dimensions and annotations:

- Overall width: 7'-6" (divided into two 3'-9" sections).
- Overall height: 16'-0" (divided into four 4'-0" sections).
- Inner dimensions: 4'-2" (divided into two 2'-1" sections).
- Annotations:
 - Inside Edge of Concrete Key Below
 - 1" Dia. Anchor Bolts, Embedment 1'-4", Typ
 - L4x4x3/8" Or Recommended By Manufacturer
 - 1" Dia. Anchor Bolts, Embedment 1'-4", Typ
 - Pre-engineered Temporary Pedestrian Bridge
- Section markers: S-26, D, 1, B.
- Scale: 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____

ADD. 75