

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	" "
	TRACED BY	" "
	DESIGNED BY	" "
	NOTED BY	" "
NOTED BOOK	QUANTITIES BY	" "
	CHECKED BY	" "
No.		" "

NEW



Type "A" pullbox



Type "B" pullbox



HandHole Group (HHG)

Existing pullbox

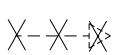


Traffic signal conduits (underground)

Existing traffic signal facilities to be removed

LEGEND

EXISTING



TRAFFIC SIGNAL NOTES

- All traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.
- A solid #8 bare copper wire shall be pulled with the traffic control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
- A solid #6 bare copper wire shall be pulled with the power cable servicing the Controller cabinet for equipment ground. Cost shall be incidental to the installation of the power cable.
- Conduits and pullbox locations as shown on the plans are schematic. They may be modified by the contractor with the approval of the engineer.
- The contractor shall install the controller and cabinet in the indicated location.
- All work for the installation or modification of the traffic signal system shall conform to the latest revisions of the "Hawaii Standard Specifications for Road and Bridge Construction, 2005" and the "Standard Plans" of the State of Hawaii, Department of Transportation, Highways Division, 2008 and as shown on these drawings.
- Traffic Signal Standards shall conform to "4.0 Modifications to AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" as noted in HDOT "Design Criteria for Bridges and Structures", March 1, 2013.
- All splicing shall be done in the pullboxes.
- Furnishing and installing the conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items. The concrete jacket for the conduit by-pass detail shown on State Standard Plan TE-36 shall not be paid for separately but considered incidental to the various contract items. The engineer shall determine if a concrete jacket is required.
- All cable and elements for grounding shall be new.
- Unless otherwise specified, all conduits shall be concrete encased PVC schedule 40.
- The contractor shall notify the Department of Transportation, Kauai District, three (3) working days prior to commencing work on the traffic signal system (Phone: 241-3000).
- While modifying the existing traffic signal systems, the contract shall keep the existing system operational until the new traffic signal system can be put into service.
- The contractor shall salvage all existing heads, standards, and cables not used in the new system. Cost shall be incidental to the various contract items.
- All traffic signal hardware removed from the intersection shall be stockpiled and delivered to a location determined by the Engineer.

CONSTRUCTION NOTES

- Locations of existing underground structures and utilities such as pipe-lines, conduits, cables, etc., shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the contractor shall be repaired by the contractor at his own cost.
- The contractor shall verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the engineer for clarification.
- The contractor shall notify all agencies to verify, tone and locate their existing utilities within the project area prior to excavating. The contractor shall coordinate all work.
- The locations of the new traffic signal standards, traffic signal standards with mast-arm, pedestrian push buttons, traffic controller, pullboxes, conduits and loop detectors shall be staked out in the field by the contractor and approval of the locations shall be obtained from the engineer prior to construction and installation.
- All traffic signal work shall conform to the requirements of the "Manual on Uniform Traffic Control Devices for Streets and Highways, 2009 Edition", Federal Highway Administration (2009) as amended.
- Maintenance of traffic through the construction area shall be in accordance with Part VI of the "Manual on Uniform Traffic Control Devices for Streets and Highways, 2009 Edition", Federal Highway Administration (2009) as amended and as specified in the special provisions. The contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the motoring public.
- At the end of each day's work, the contractor shall remove all equipment and other obstruction to permit free and safe passage of public traffic.

LEGEND FOR  
AS-BUILT POSTINGS



Squiggly line for as-built deletion



Double line for as-built deletion

Roadway

Text for as-built posting

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION AND  
CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION.

SIGNATURE  
APR 30, 2016  
EXPIRATION DATE  
OF THE LICENSE

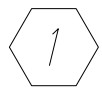


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TRAFFIC SIGNAL  
NOTES AND LEGEND  
LIHUE MILL BRIDGE - PHASE 3  
INTERCONNECT & INTELLIGENT  
TRANSPORTATION SYSTEM DUCTLINE


Scale: AS NOTED Date: March 2015


SHEET No. TS-1 OF 6 SHEETS

"AS-BUILT"

Conduit & Cable Schedule		
Symbol	Conduit	Description
	Exist.	1-24C#19
	Exist. Exist.	1-24C#19 Spare
	2" Conc. 2" Conc. 2" Conc.	* 1-24C#19 Spare Spare

LEGEND FOR  
AS-BUILT POSTINGS

 Squiggly line for  
as-built deletion

 Double line for  
as-built deletion

Roadway Text for as-built  
posting

\* Install with Fabric Inner Duct

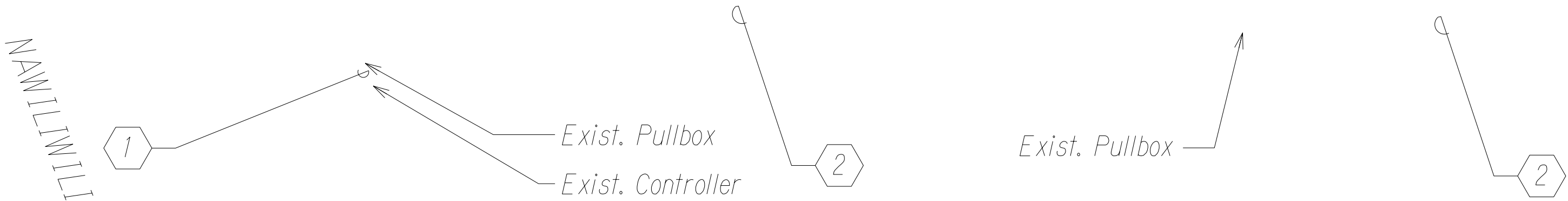
UAHI ROAD

Baseline ( @ )

True North  
Scale: 1"=40'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-1(036)	FY13/14		*

MATCH LINE - @ Sta. 361+50  
For Continuation See Sheet TS-3



Exist. Pullbox and Type "A" Pullbox for Future Power Connection See Detail on Sheet TS-6 @ Sta. 359+07 O/S 50.79' RT. Top=236.2'

As-Built Change

New Connect Point

INTERCONNECT PLAN - 1  
Scale: 1"=40'



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QUANTITIES BY	"
CHECKED BY	"
No.	

"AS-BUILT"

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINAL PLAN

DRAWN BY \_\_\_\_\_

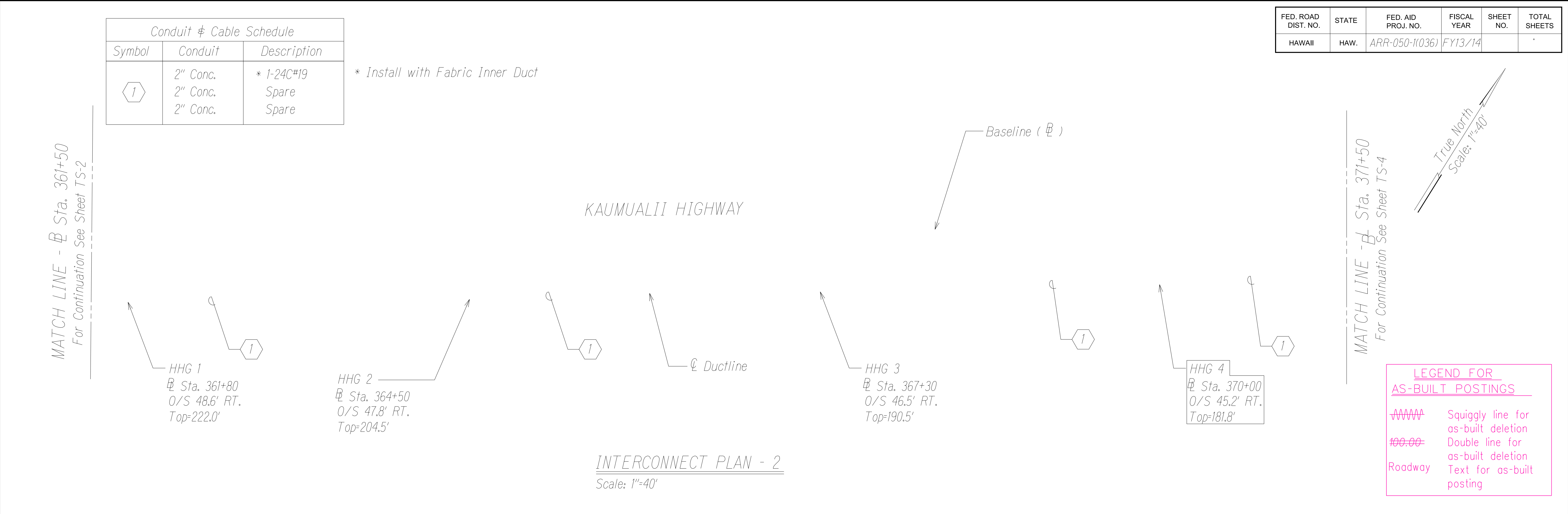
NOTEBOOK

DESIGNED BY \_\_\_\_\_

No.

QUANTITIES BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-11(036)	FY13/14		


"AS-BUILT"



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-1(036)	FY13/14		6

LEGEND FOR  
AS-BUILT POSTINGS

-  Squiggly line for as-built deletion
-  Double line for as-built deletion
- Roadway Text for as-built posting

Conduit & Cable Schedule		
Symbol	Conduit	Description
	2" Conc.	* 1-24C#19
	2" Conc.	Spare
	2" Conc.	Spare

\* Install with Fabric Inner Duct

MATCH LINE - @ Sta. 371+50  
For Continuation See Sheet TS-3

HHG 5  
@ Sta. 372+92  
O/S 46.1' RT.  
Top=172.5'

KAUMUALII HIGHWAY

① Ductline  
3-2" Conduits

HOOMANA ROAD

HHG 6  
@ Sta. 376+65  
O/S 44.4' RT.  
Top=159.6'

Baseline ( @ )

HHG 7  
@ Sta. 378+70  
O/S 44.4' RT.  
Top=153.4'

MATCH LINE - @ Sta. 380+00  
For Continuation See Sheet TS-5

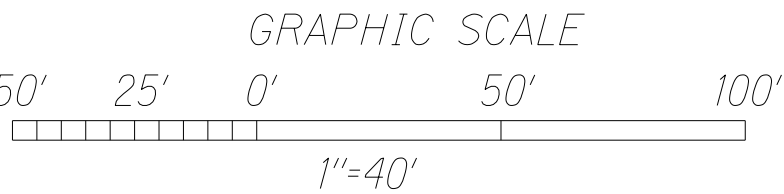
Revised Alignment Field Change

INTERCONNECT PLAN - 3  
Scale: 1"=40'

MATCH LINE - @ Sta. 371+50  
For Continuation See Sheet TS-3

MATCH LINE - @ Sta. 380+00  
For Continuation See Sheet TS-5

DUCTLINE "A" PROFILE  
Scale: Horiz. 1"=40'  
Vert. 1"=8'



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April 30, 2016  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

INTERCONNECT PLAN & PROFILE

LIHUE MILL BRIDGE - PHASE 3  
INTERCONNECT & INTELLIGENT  
TRANSPORTATION SYSTEM DUCTLINE

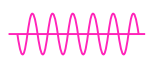


Scale: AS NOTED Date: March 2015

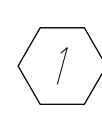
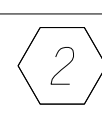
SHEET No. TS-4 OF 6 SHEETS

"AS-BUILT"


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-K(036)	FY13/14		6

LEGEND FOR  
AS-BUILT POSTINGS

-  Squiggly line for as-built deletion
-  Double line for as-built deletion
-  Text for as-built posting

Conduit & Cable Schedule		
Symbol	Conduit	Description
	2" Conc. 2" Conc. 2" Conc.	* 1-24C#19 Spare Spare
	Exist.	1-24C#19

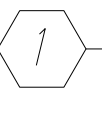
\* Install with Fabric Inner Duct

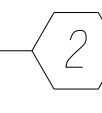
Baseline (  )


KAUMUALII HIGHWAY

KUHIO HIGHWAY


RICE STREET


 Exist. Pullbox

 Exist. Controller

MATCH LINE -  Sta. 380+00  
For Continuation See Sheet TS-4

Reconstructed Ramp  
See Civil Sheets


HHG 9  
Sta. 0+40 @ Ductline "B"  
 Sta. 382+45  
O/S 61.5' RT.  
Top=162.6'

HHG 8  
Sta. 0+00 @ Ductline "B"  
 Sta. 382+30  
O/S 97.5' RT.  
Top=162.0'

INTERCONNECT PLAN - 4  
Scale: 1"=40'

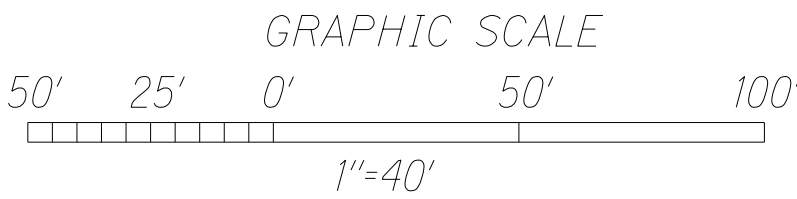
Revised Profile-  
Went Over Utilities

Revised Profile-  
Went Over Utilities

MATCH LINE -  Sta. 380+00  
For Continuation See Sheet TS-4

DUCTLINE "A" PROFILE  
Scale: Horiz. 1"=40'  
Vert. 1"=8'

DUCTLINE "B" PROFILE  
Scale: Horiz. 1"=40'  
Vert. 1"=8'



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

INTERCONNECT PLAN & PROFILE

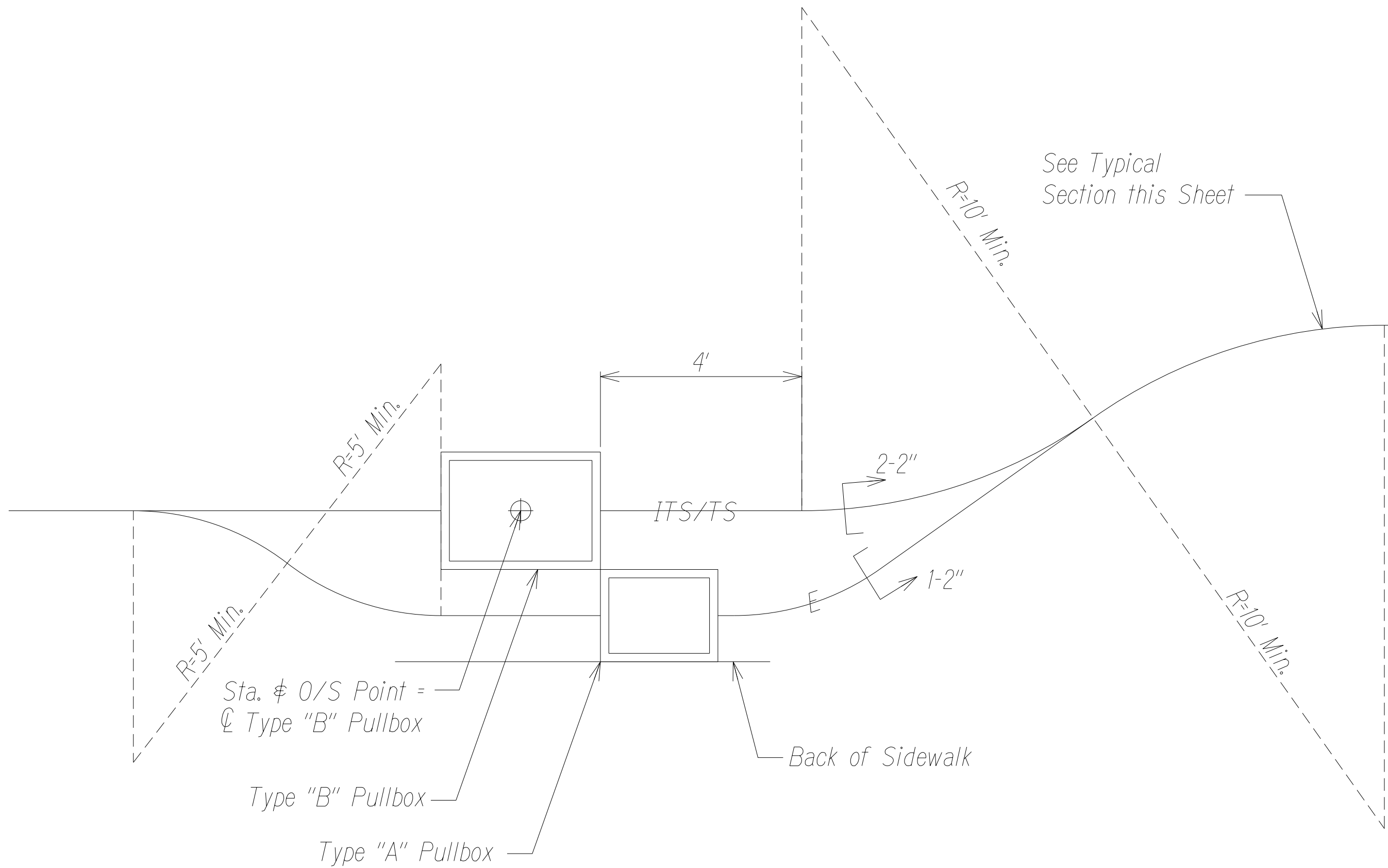
LIHUE MILL BRIDGE - PHASE 3  
INTERCONNECT & INTELLIGENT  
TRANSPORTATION SYSTEM DUCTLINE

Scale: AS NOTED Date: March 2015

SHEET No. TS-5 OF 6 SHEETS

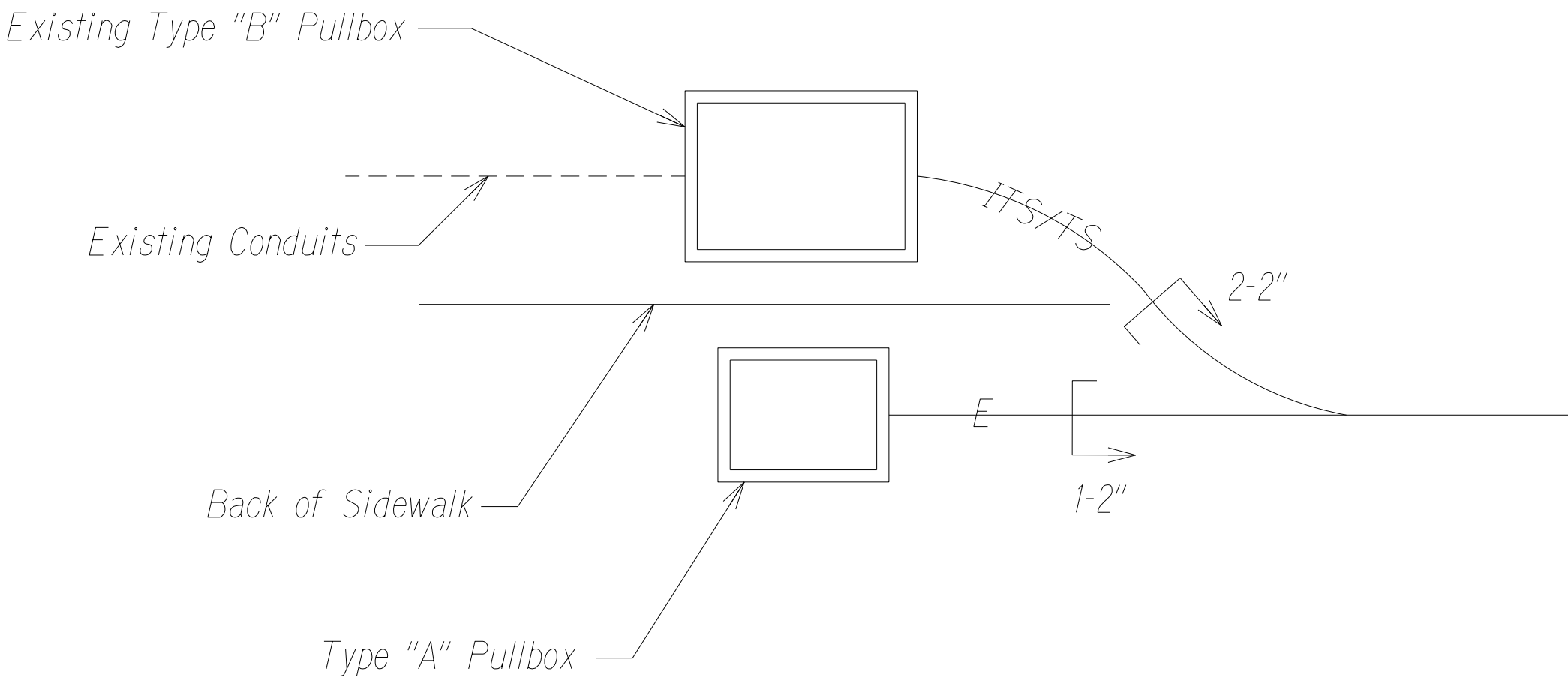
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-1(036)	FY13/14		*

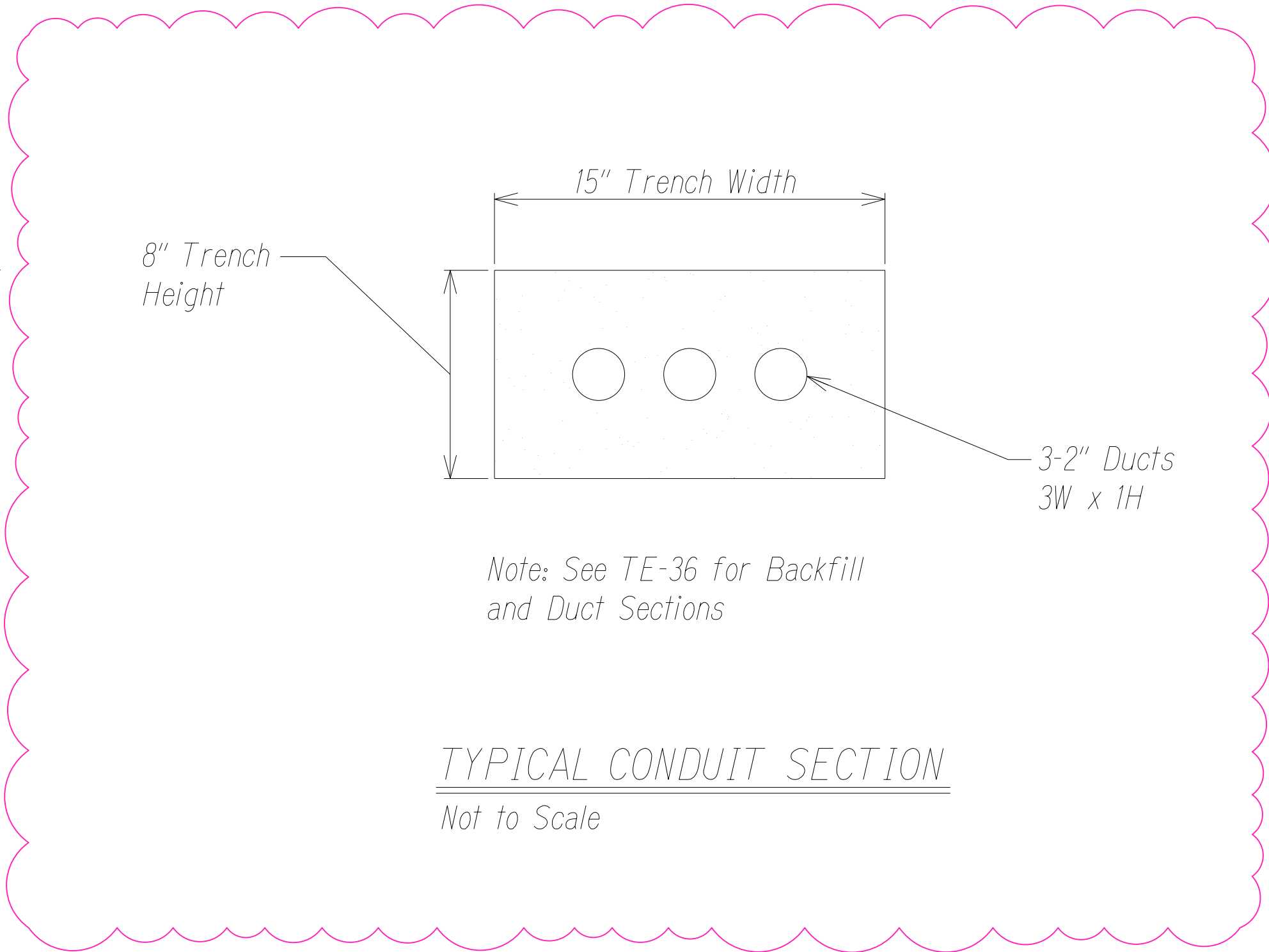


Note: See TE-37 for Pullbox Details

TYPICAL HANDHOLE GROUP (HHG) DETAIL  
Scale: 1/2"=1'-0"



PULLBOX DETAIL AT APPROX STA 359+07  
Scale: 1/2"=1'-0"



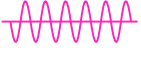
Note: See TE-36 for Backfill and Duct Sections


TYPICAL CONDUIT SECTION  
Not to Scale

-DUCTLINE IN ROADWAY IS CONCRETE ENCASED

-DUCTLINE OUTSIDE OF ROADWAY SECTION IS BEDDED WITH S4C

LEGEND FOR AS-BUILT POSTINGS

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 Double line for as-built deletion

Roadway Text for as-built posting

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

LIHUE MILL BRIDGE - PHASE 3  
INTERCONNECT & INTELLIGENT  
TRANSPORTATION SYSTEM DUCTLINE

Scale: AS NOTED Date: March 2015

SHEET No. TS-6 OF 6 SHEETS

"AS-BUILT"