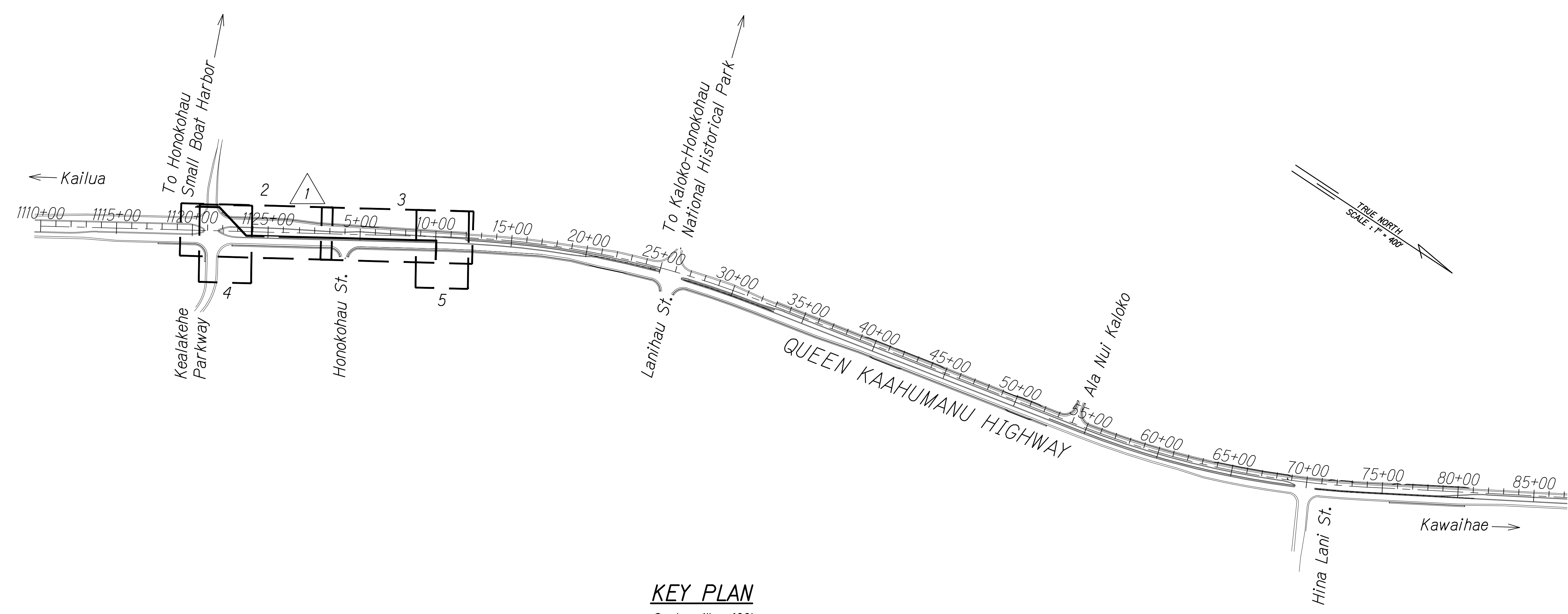


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 242	528 322



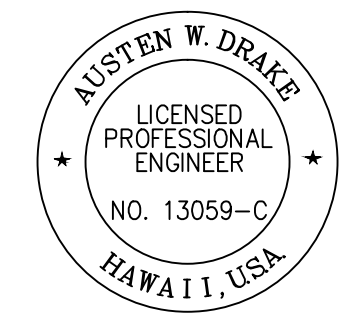
KEY PLAN
Scale: 1" = 400'

Approved under separate cover
DIVISION CHIEF _____ DATE _____
COUNTY OF HAWAII
WASTEWATER DIVISION

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
NO.	

GRAPHICAL SCALE:
400' 200' 0 400' 800'
Scale: 1" = 400'

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.
Austen W. Drake
SIGNATURE
APRIL 30, 2018
EXPIRATION DATE OF THE LICENSE

1/22/16	Revised utility alignment & profile due to SB # redesign
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
FORCE MAIN PLAN AND PROFILE	
QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)	
Federal Aid Project No. NH-019-1(38)R	
Scale: AS NOTED	Date: AUGUST 2016
SHEET No. 1 OF 5 SHEETS	

W:_CIVIL_3D_PROJECTS\2008_003_001_GBI_QUEEN K HWY WIDENING\01_CIVIL_DRAWINGS\242_KEY PLAN_FORCE MAIN_PP.DWG 8/16/2016 6:29 PM

"AS-BUILT"

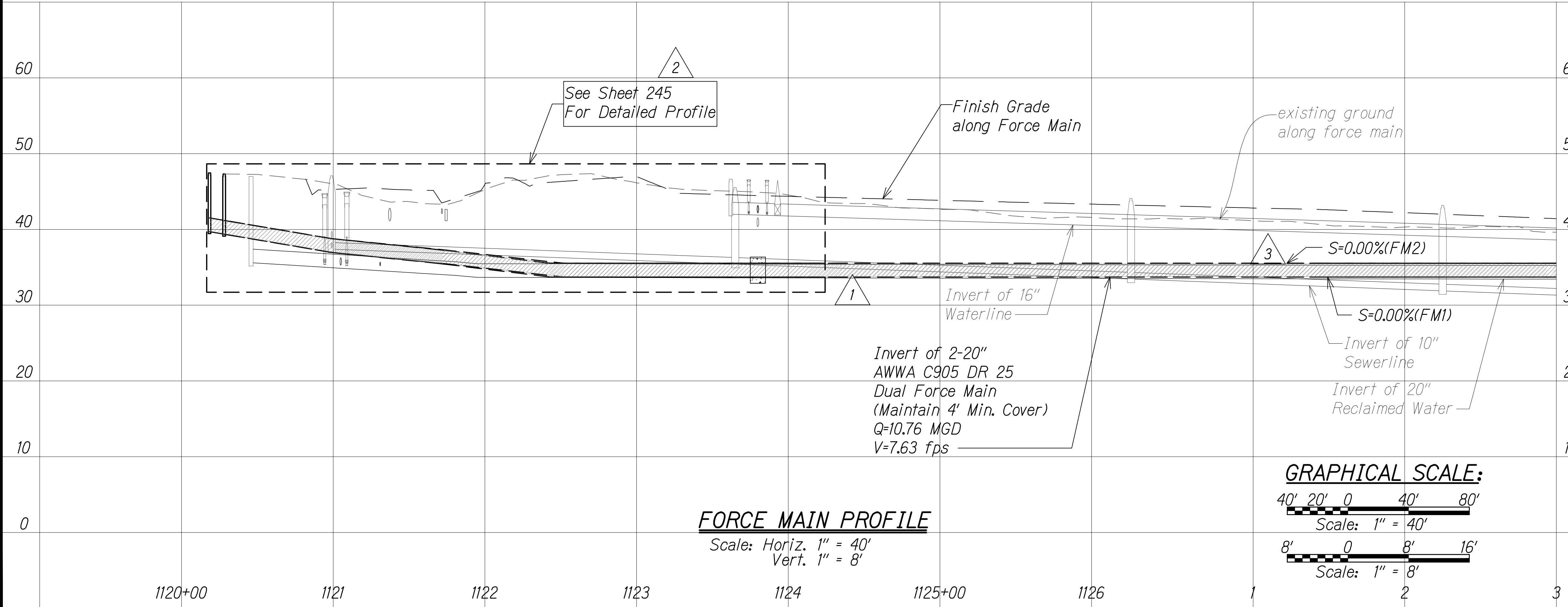
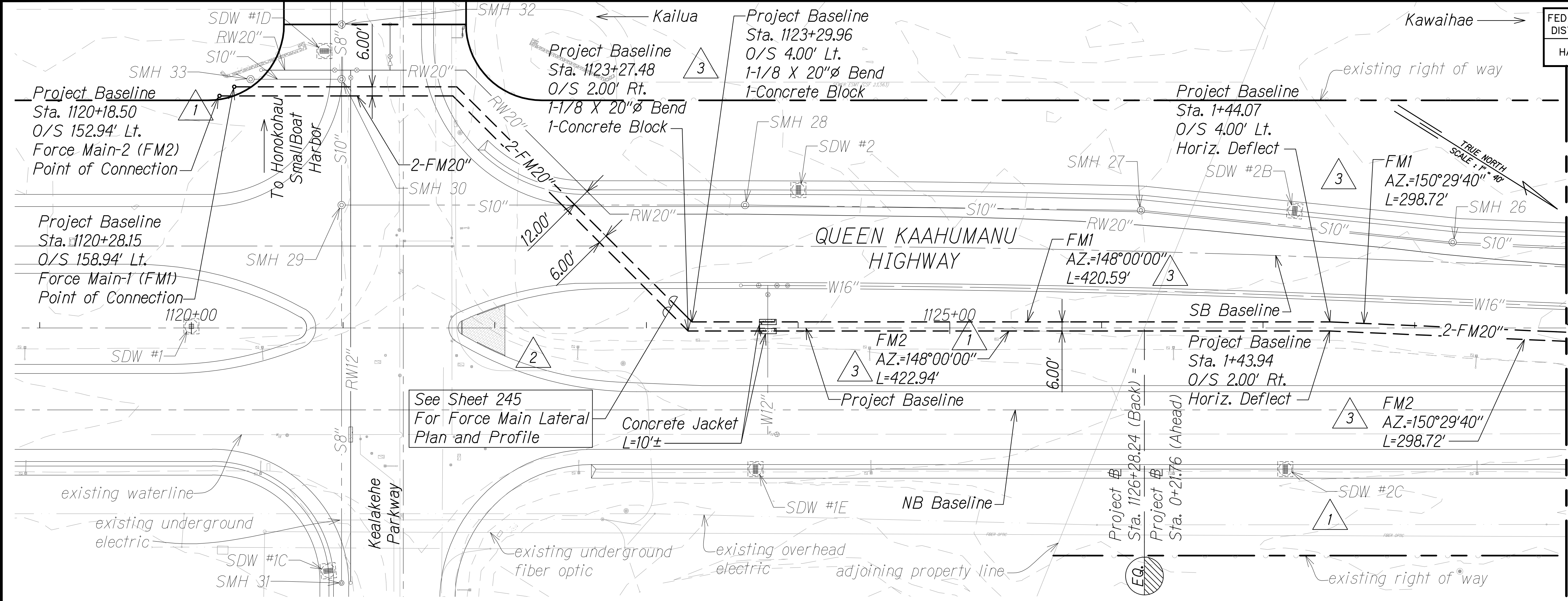
8/16/2016 6:29 PM

C.O. 242

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 243	528

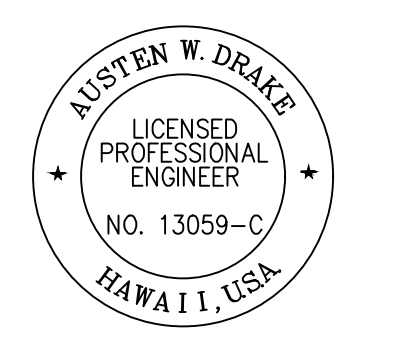
LEGEND:

- existing ground along force main
- Finish Grade along Force Main
- Sewerline
- Waterline
- Reclaimed Water (RW)
- Dual Force Main
- Sewer Manhole
- Water Valve
- Clean-out
- Shallow Drywell
- existing waterline
- fiber optic
- existing overhead electric
- existing underground electric



Note:
 All concrete reaction blocks for force mains and reclaimed waterline systems shall be per Water System Standards.

Approved under separate cover
 DIVISION CHIEF _____ DATE _____
 COUNTY OF HAWAII
 WASTEWATER DIVISION

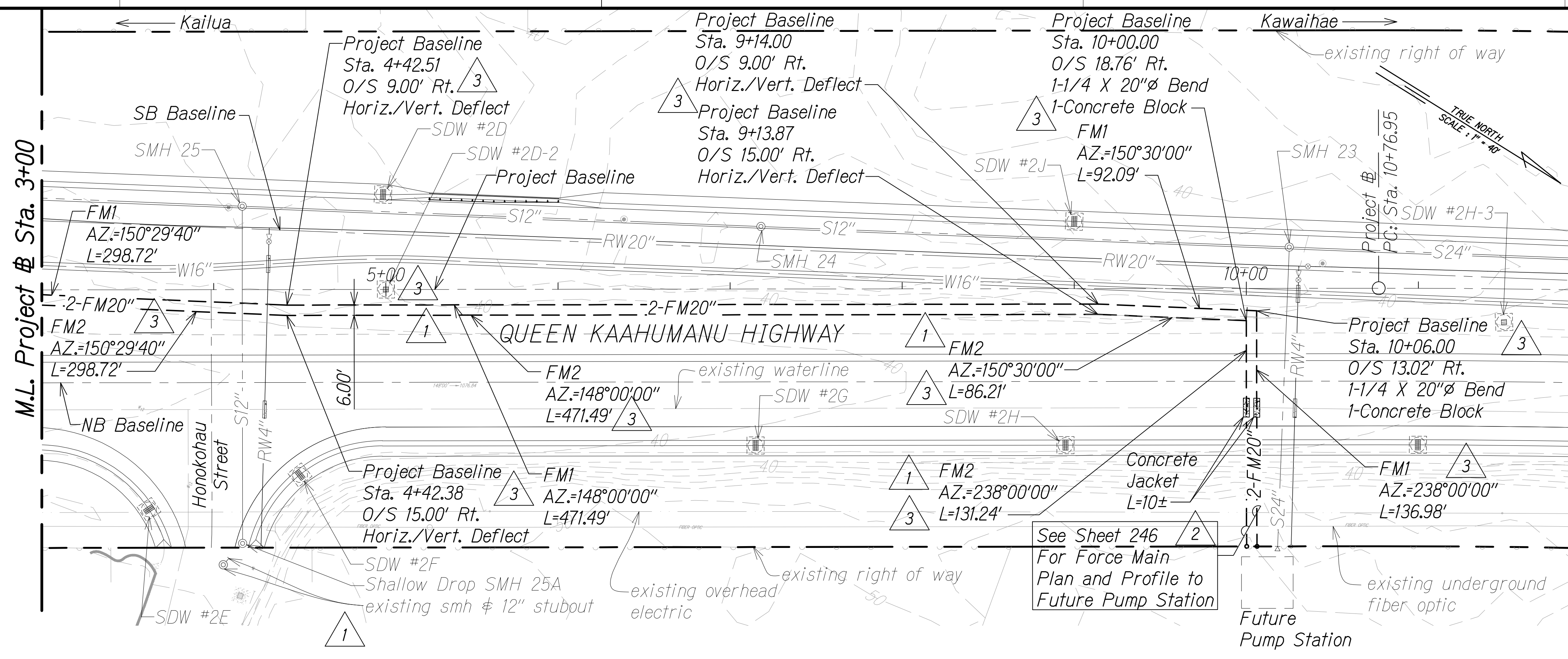


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
 Signature: *Austen W. Drake* APRIL 30, 2018
 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
3/31/17	3 Realigned FM outside of exist. EP
8/1/16	2 Revised sht. ref.
1/22/16	1 Revised utility alignment & profile due to SB & redesign

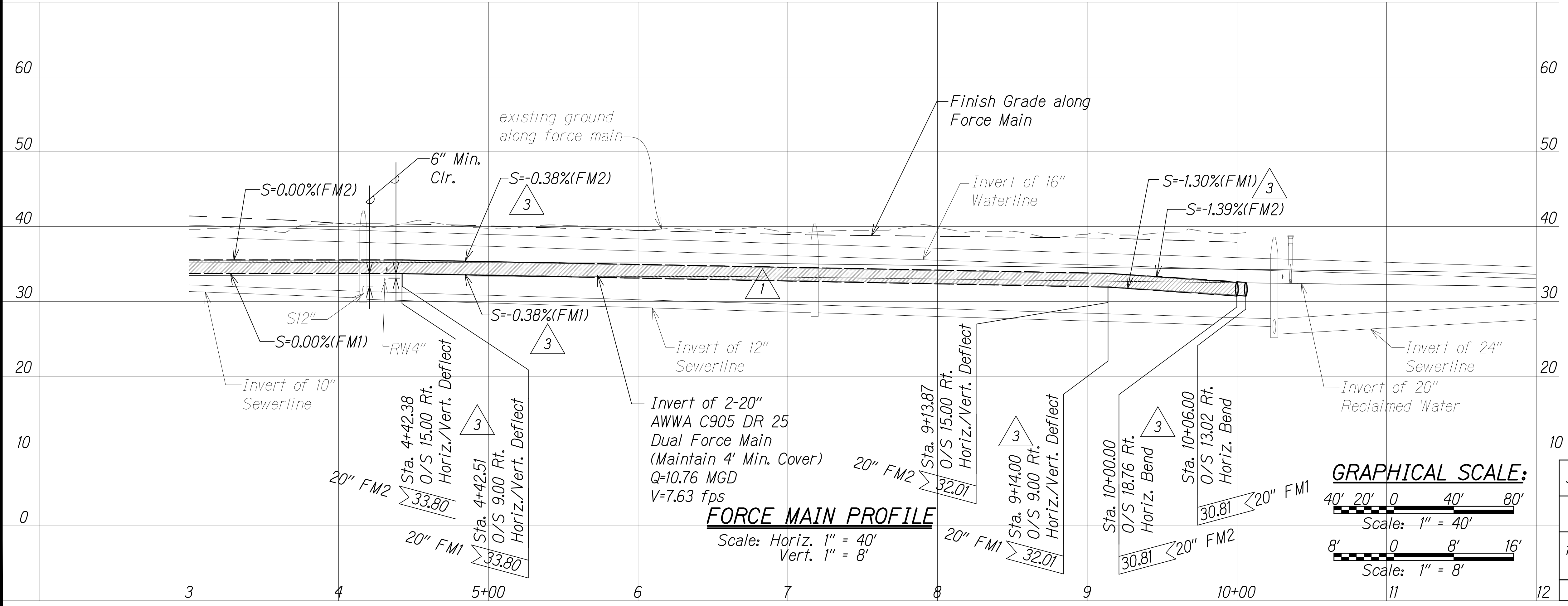
ORIGINAL PLAN DATE
 DESIGNED BY
 CHECKED BY
 QUANTITIES BY
 W:_CIVIL_3D_PROJECTS\2008_003_001_GBI_QUEEN_K_HWY_WIDENING\01_CIVIL_DRAWINGS\243_FORCEMAIN_PP_02.DWG 4/6/2017 9:56 AM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 244	528

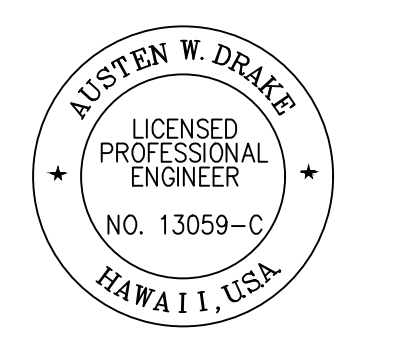


LEGEND:

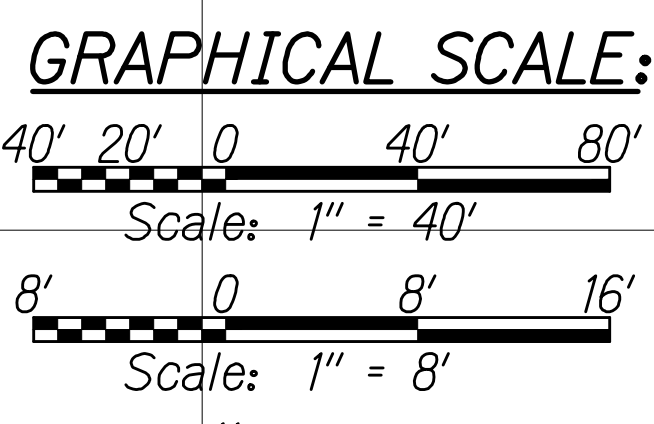
- existing ground along force main
- Finish Grade along Force Main
- S10" --- Sewerline
- W16" --- Waterline
- RW20" --- Reclaimed Water (RW)
- - - - - 2-FM20" --- Dual Force Main
- ⊙ Sewer Manhole
- Water Valve
- Clean-out
- △ 3 Shallow Drywell
- W₆ --- existing waterline
- FIBER OPTIC --- existing underground fiber optic
- existing overhead electric



Approved under separate cover
 DIVISION CHIEF _____ DATE _____
 COUNTY OF HAWAII
 WASTEWATER DIVISION



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 Signature: *Austen W. Drake* APRIL 30, 2018
 EXPIRATION DATE OF THE LICENSE



DATE	REVISION
3/31/17	△ 3 Added new drywells; Realigned FM outside of exist. EP
8/1/16	△ 2 Revised sht. ref.
1/22/16	△ 1 Revised utility alignment & profile due to SB & redesign; Added exist. smh & stubout at Honokohau St.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

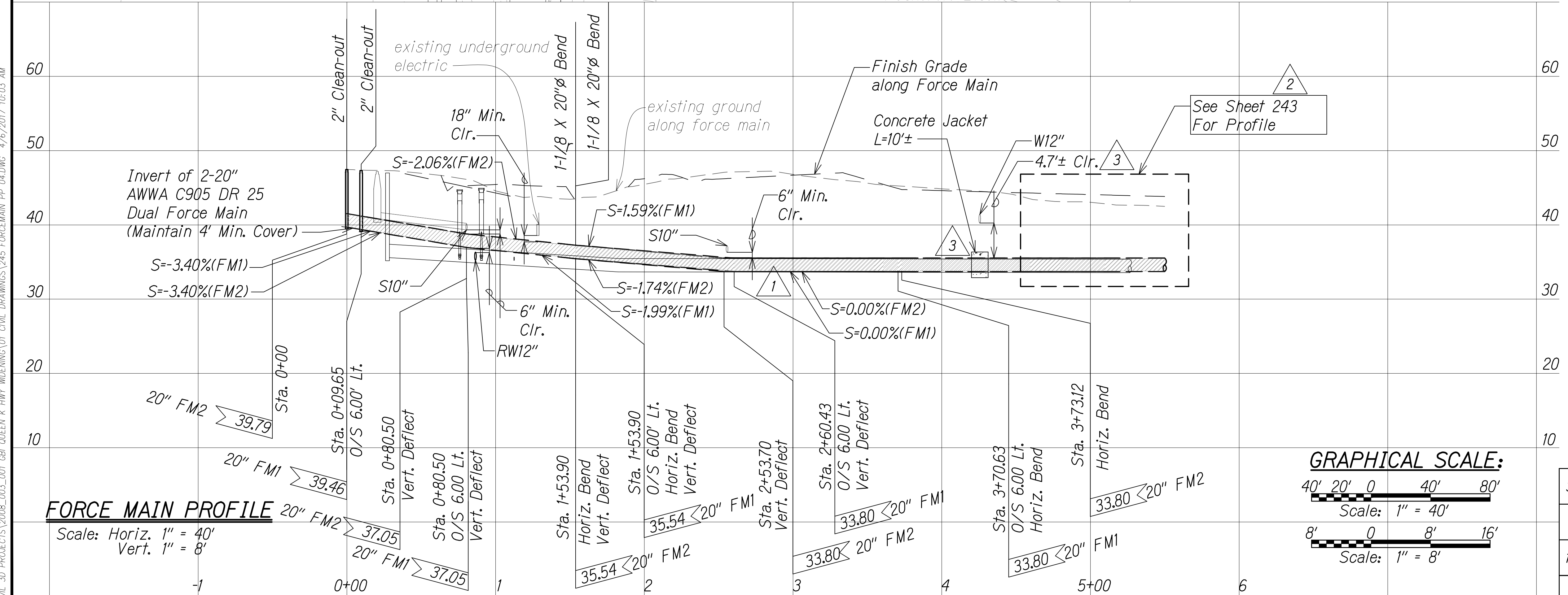
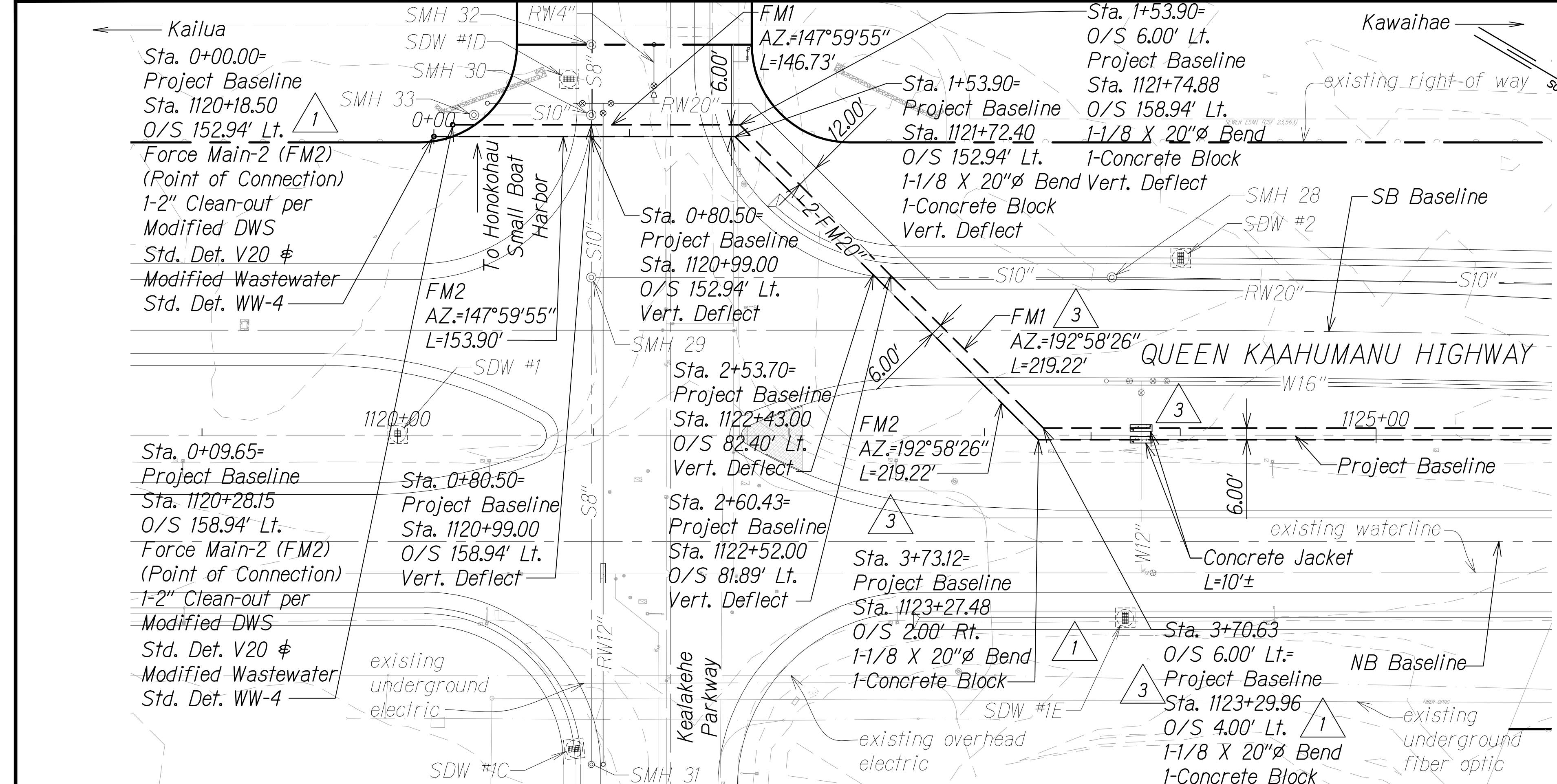
W:_CIVIL_3D_PROJECTS\2008_003_001_GBI_QUEEN_K_HWY_WIDENING\01_CIVIL_DRAWINGS\244_FORCEMAIN_PP_03.DWG 4/6/2017 10:00 AM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 245	528

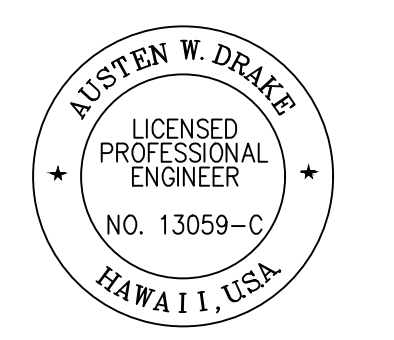
LEGEND:

- existing ground along force main
- Finish Grade along Force Main
- S10" --- Sewerline
- W16" --- Waterline
- RW20" --- Reclaimed Water (RW)
- 2-FM20" --- Dual Force Main
- ⊙ Sewer Manhole
- Water Valve
- Clean-out
- ⊞ Shallow Drywell
- existing waterline
- FIBER OPTIC --- existing underground fiber optic
- existing overhead electric
- existing underground electric

NOTE:
Stationing on this sheet is based on FM2

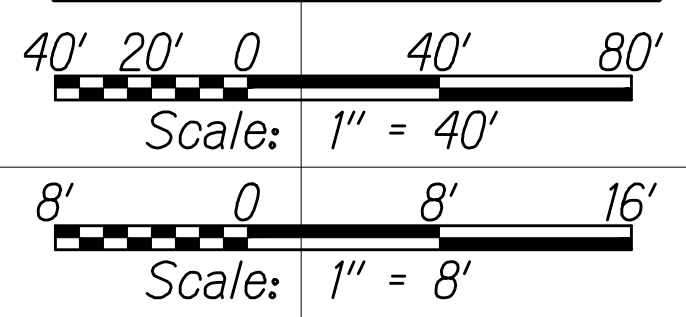


Approved under separate cover
DIVISION CHIEF _____ DATE _____
COUNTY OF HAWAII
WASTEWATER DIVISION



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Austin W. Drake APRIL 30, 2018
SIGNATURE EXPIRATION DATE OF THE LICENSE

GRAPHICAL SCALE:



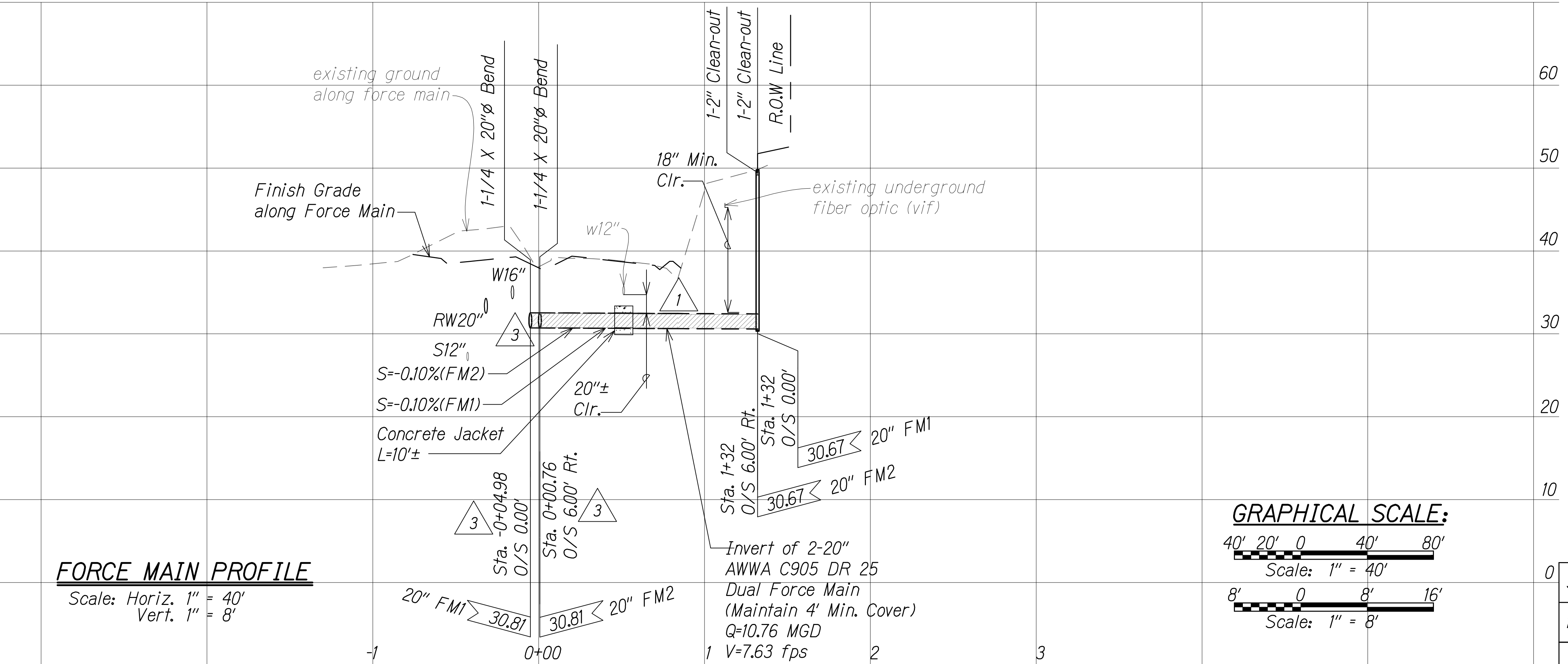
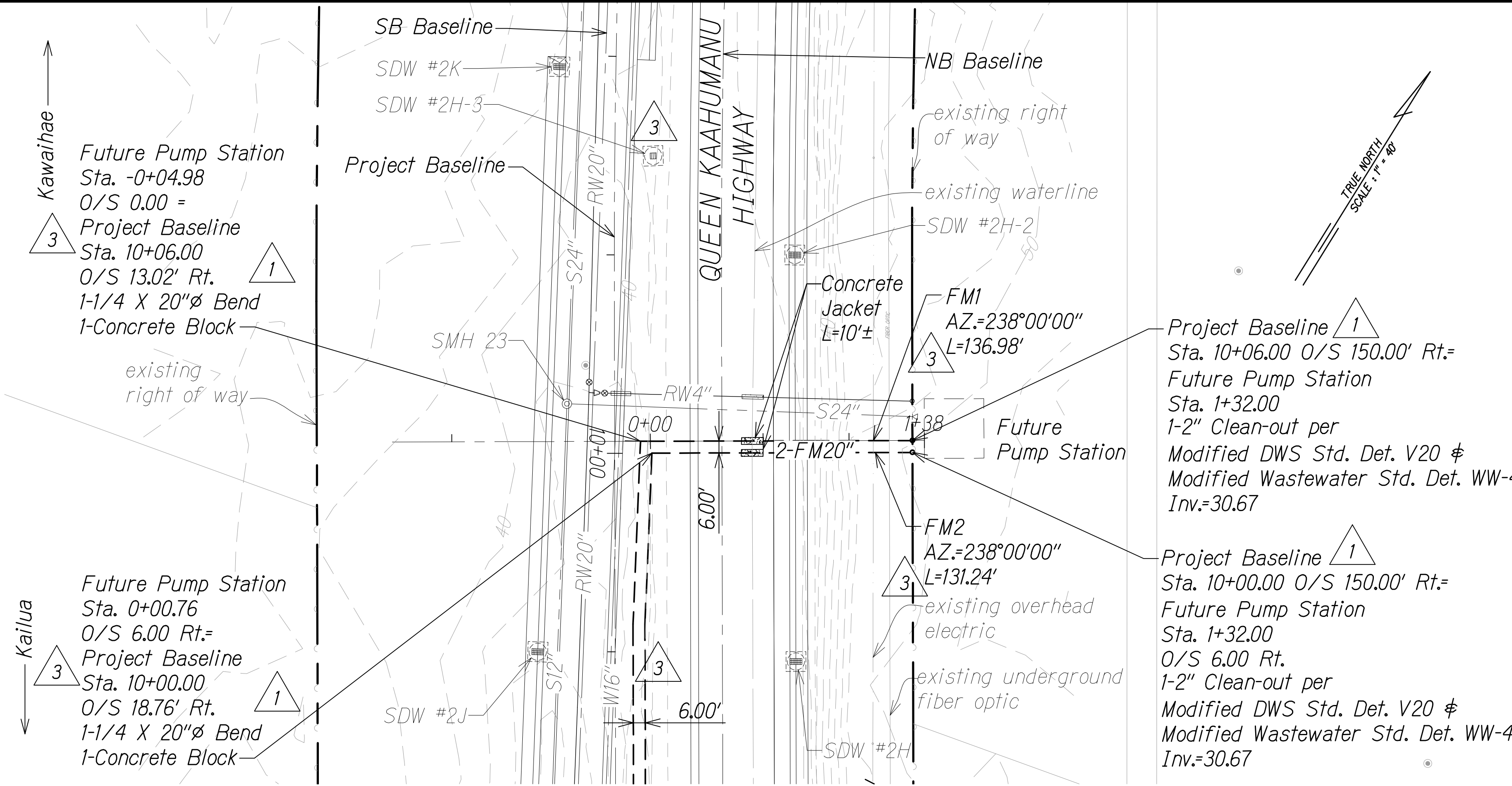
DATE	REVISION
3/31/17	3 Realigned FM outside of exist. EP
8/1/16	2 Revised sht. ref.
1/22/16	1 Revised utility alignment & profile due to SB & redesign

ORIGINAL PLAN	DATE
NO. _____	_____
DESIGNED BY _____	CHECKED BY _____
QUANTITIES BY _____	
DATE _____	

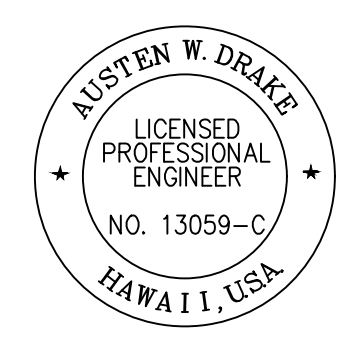
W:_CIVIL_3D_PROJECTS\2008_003_001_GBI_QUEEN_K_HWY_WIDENING\01_CIVIL_DRAWINGS\245_FORCEMAIN_PP_04.DWG 4/6/2017 10:03 AM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 246	528

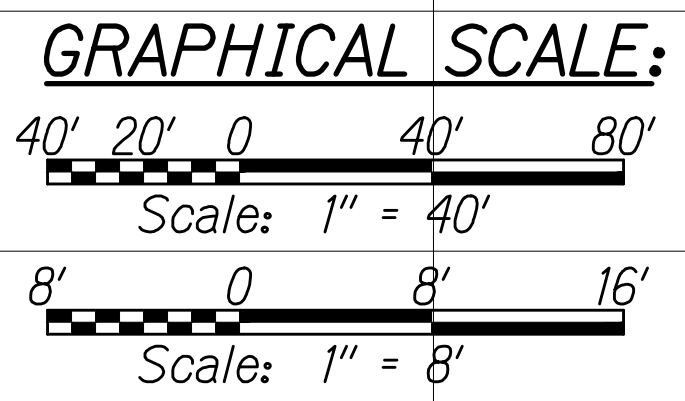
- LEGEND:**
- existing ground along force main
 - Finish Grade along Force Main
 - S10" --- Sewerline
 - W16" --- Waterline
 - RW20" --- Reclaimed Water (RW)
 - 2-FM20" --- Dual Force Main
 - △ 3 --- Shallow Drywell
 - ⊙ --- Sewer Manhole
 - ⊙ --- Sewer Manhole
 - ⊙ --- Water Valve
 - ⊙ --- Clean-out
 - We --- existing waterline
 - FIBER OPTIC --- existing underground fiber optic
 - existing overhead electric
 - existing underground electric



Approved under separate cover
DIVISION CHIEF _____ DATE _____
COUNTY OF HAWAII
WASTEWATER DIVISION



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Austin W. Drake APRIL 30, 2018
SIGNATURE EXPIRATION DATE OF THE LICENSE



DATE	REVISION
3/31/17	△ 3 Added new drywell; Realigned FM outside exist. EP
1/22/16	△ 1 Revised utility alignment & profile due to SB & redesign

ORIGINAL PLAN	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

W:_CIVIL_3D_PROJECTS\2008_003_001_GBT_QUEEN_K_HWY_INTERCHG\01_CIVIL_DRAWINGS\246_FORCEMAIN_PP_05.DWG 4/4/2017 1:42 PM