

LEGEND AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
		SOIL/WASTE PIPING		AWC	ACCESSIBLE WATER CLOSET
		VENT PIPING		ALAV	ACCESSIBLE LAVATORY
	CD	CONDENSATE DRAIN		ASH	ACCESSIBLE SHOWER
		CW PIPING		AP	ACCESS PANEL
		HW PIPING		CA	COMPRESSED AIR
	G	GAS PIPING		CFM	CUBIC FEET PER MINUTE
	A	COMPRESSED AIR PIPING		CW	COLD WATER
	R	REFRIGERANT PIPING		DN	DOWN
				EF	EXHAUST FAN
				FD	FLOOR DRAIN
				FS	FLOOR SINK
				GWH	GAS WATER HEATER
	DN	PIPE DOWN		HB	HOSE BIBB
				HW	HOT WATER
	SA	SUPPLY AIR DUCT		LAV	LAVATORY
	EXH OR RA	EXHAUST OR RETURN AIR DUCT		LBS	POUNDS
	SAD	SUPPLY AIR DIFFUSER		MS	MOP SINK
	EAR/RAR	EXHAUST/RETURN AIR REGISTER OR GRILLE		SK	SINK
	TAG	TRANSFER AIR GRILLE		SHD	SHOWER DRAIN
		DUCT (1st FIGURE, SIDE SHOWN; 2nd FIGURE, SIDE NOT SHOWN)		SOV	SHUT OFF VALVE
				TP	TRAP PRIMER
		WALL MOUNTED THERMOSTAT		TPRV	TEMPERATURE PRESSURE RELIEF VALVE
	OBVD	OPPOSED BLADE VOLUME DAMPER		TYP	TYPICAL
				VT	VENT
				VTR	VENT THRU ROOF
				W	WASTE
				WB	WASHER BOX
	EQUIPMENT INDICATOR EQUIPMENT ABBREVIATION MARK NUMBER				

GENERAL NOTES

- SYMBOLS AND ABBREVIATIONS INDICATED ON THE DRAWINGS ARE FOR REFERENCE ONLY. ALL SYMBOLS AND ABBREVIATIONS ARE NOT NECESSARILY USED ON THE DRAWINGS.
- THE MANUFACTURER/MODEL NUMBERS INDICATED ON THE DRAWINGS ARE USED AS THE BASIS OF DESIGN. ANY SUBSTITUTION, IF ACCEPTED, STILL REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR ALL SUBSTITUTION CHANGES RELATING TO PIPING, DUCTWORK, CONTROLS, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL WORK.
- VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- COORDINATE WORK WITH ALL TRADES AND FIELD CONDITIONS AFFECTING OR AFFECTED BY THIS INSTALLATION. SHOULD CONFLICTS OCCUR, NOTIFY THE ENGINEER IMMEDIATELY.
- DUCTWORK SHALL BE INSTALLED CONCEALED WITHIN THE CEILING SPACE. CHECK FIELD CONDITIONS FOR OPTIMUM ROUTING OF DUCTWORK.
- ALL HORIZONTAL CONDENSATE DRAIN PIPING SHALL BE INSTALLED WITHOUT DIPS OR SAGS.
- ALL DUCT DIMENSIONS ARE NET SIZES AND DOES NOT INCLUDE LINING.
- ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED.
- ALL DUCTWORK SHALL CONFORM TO SMACNA STANDARDS.
- ALL PIPING PENETRATIONS THROUGH THE WALLS AND FLOOR SLAB SHOULD BE COMPLETED IN A RESILIENT MANNER. PROVIDE MASON INDUSTRIES MODEL SWS RESILIENT PIPE PENETRATION.
- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT IBC AND THE LATEST HAWAII COUNTY/STATE OF HAWAII AMENDMENTS AND ORDINANCES.
- FIRE SAFETY DURING CONSTRUCTION SHALL CONFORM IN ACCORDANCE WITH NFPA 1, 2006.

SURVEY PLOTTED BY

DATE

DRAWN BY

DESIGNED BY

QUANTITIES BY

CHECKED BY

ORIGINAL PLAN

NOTE BOOK

No.

Signature: Keith M. Chan

EXP. DATE OF THE LICENSE: 04-30-20

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND AND NOTES

MAUNA KEA MAINTENANCE BASEYARD

DANIEL K. INOUE HIGHWAY

Project No. 200A-01-10

Scale: As Noted

Date: April 2018

SHEET No. M0.0 OF 19

SHEETS

M0.0

95

AIR-COOLED CONDENSING UNIT SCHEDULE

MARK NO.	SERVES	CAPACITY (BTUH, COOLING)	CAPACITY (BTUH, HEATING)	ENT AMB AIR TEMP (°F)	COMPRESSOR			BLOWER MOTOR (ECM)		ELECTRICAL REQUIREMENTS		UNIT WEIGHT (LBS)	DESIGN BASED ON	REMARKS
					NO	TYPE	REFRIGERANT	NO	FLA	V/ø/HZ	MCA			
ACCU 1	FCU-1, FCU-2	18,000	22,000	95	1	INVERTER ROTARY	R410A	1	0.96	208/1/60	15	130	MITSUBISHI MXZ-2B20NA-1	

FAN COIL UNIT SCHEDULE

MARK NO.	EQUIPMENT TYPE	CAPACITY (BTUH, COOLING)	CAPACITY (BTUH, HEATING)	SA CFM (HIGH, COOLING)	SA CFM (HIGH, HEATING)	EAT (°F) COOLING		ELECTRICAL REQUIREMENTS		BLOWER MOTOR (ECM)	REFRIGERANT	UNIT WEIGHT (LBS)	DESIGN BASED ON	REMARKS
						DB	WB	V/ø/HZ	MCA					
FCU 1	WALL MOUNTED	12,000	14,400	321	321	80	67	208-230/1/60	1	0.76 FLA	R410A	22	MITSUBISHI MSZ-GE12NA-9	WIRELESS WALL MOUNTED REMOTE CONTROLLER
FCU 2	WALL MOUNTED	6,000	7,200	321	321	80	67	208-230/1/60	1	0.76 FLA	R410A	20	MITSUBISHI MSZ-GE06NA-9	WIRELESS WALL MOUNTED REMOTE CONTROLLER

EXHAUST FAN SCHEDULE

MARK NO.	LOCATION	TYPE	CFM	SP(IN)	RPM	SONES	BHP	V/PH/HZ	WEIGHT (LBS)	CONTROLS	DESIGN BASED ON	REMARKS
EF 1	UNISEX RESTROOM	CEILING	775	0.25	950	5.0	-	115/1/60	56	INTERLOCK WITH LIGHT	GREENHECK SP-A900	SPEED CONTROLLER IN FAN HOUSING
EF 2	TOILET	CEILING	130	0.25	1400	2.5	-	115/1/60	17	INTERLOCK WITH LIGHT	GREENHECK SP-A190	SPEED CONTROLLER IN FAN HOUSING
EF 3	JANITOR	CEILING	65	0.25	935	2.5	-	115/1/60	14	INTERLOCK WITH LIGHT	GREENHECK SP-80L	SPEED CONTROLLER IN FAN HOUSING

ELECTRIC WATER HEATER

MARK NUMBERS				TYPE	APPLICATION	RECOVERY	V/ø/HZ	KW	WEIGHT	REMARKS
EW 1	EW 2	EW 6	EW 7	TANKLESS	LAVATORY	0.5 GPM FLOW RATE AT 33°F RISE	120/1/60	2.4	5 LBS	CHRONOMITE SR-20L/120 OR APPROVED EQUAL, SIDE CONNECTIONS, FLEXIBLE CONNECTORS, REPLACEABLE FILTER/ELEMENT, UL LISTED
EW 3	EW 4	EW 9		TANKLESS	SINK	0.5 GPM FLOW RATE AT 65°F RISE	240/1/60	4.8	5 LBS	CHRONOMITE SR-20L/240 OR APPROVED EQUAL, SIDE CONNECTIONS, FLEXIBLE CONNECTORS, REPLACEABLE FILTER/ELEMENT, UL LISTED
EW 5	EW 8	EW 10		TANKLESS	SHOWER	1 GPM FLOW RATE AT 65°F RISE	240/1/60	9.6	5 LBS	CHRONOMITE SR-40L/240 OR APPROVED EQUAL, SIDE CONNECTIONS, FLEXIBLE CONNECTORS, REPLACEABLE FILTER/ELEMENT, UL LISTED

AIR COMPRESSOR AND RECEIVER

AC 1	80 GALLON ASME VERTICAL AIR RECEIVER WITH AUTO DRAIN, 2-STAGE AIR COMPRESSOR RATED FOR 16.8 CFM AT 175 PSI, 5 HP, 230/1/60 ODP MOTOR, LOW OIL LEVEL SWITCH, AIR COOLED AFTER COOLER, E-SERIES STARTER, INGERSOLL RAND MODEL 2475N5-P (TOTALLY PACKAGED) OR APPROVED EQUAL
---------	---



06-07-18

1

REVISED EQUIPMENT NO. AC-1

DATE

REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EQUIPMENT SCHEDULES

MAUNA KEA MAINTENANCE
BASEYARD

DANIEL K. INOUE HIGHWAY

Project No. 200A-01-10

Scale: As Noted

Date: April 2018

SHEET No. M0.1 OF 19

SHEETS

KEITH M. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 5784-M
HAWAII U.S.A.

SIGNATURE

EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

M0.1

SURVEY PLOTTED BY

DATE

DRAWN BY

TRACED BY

DESIGNED BY

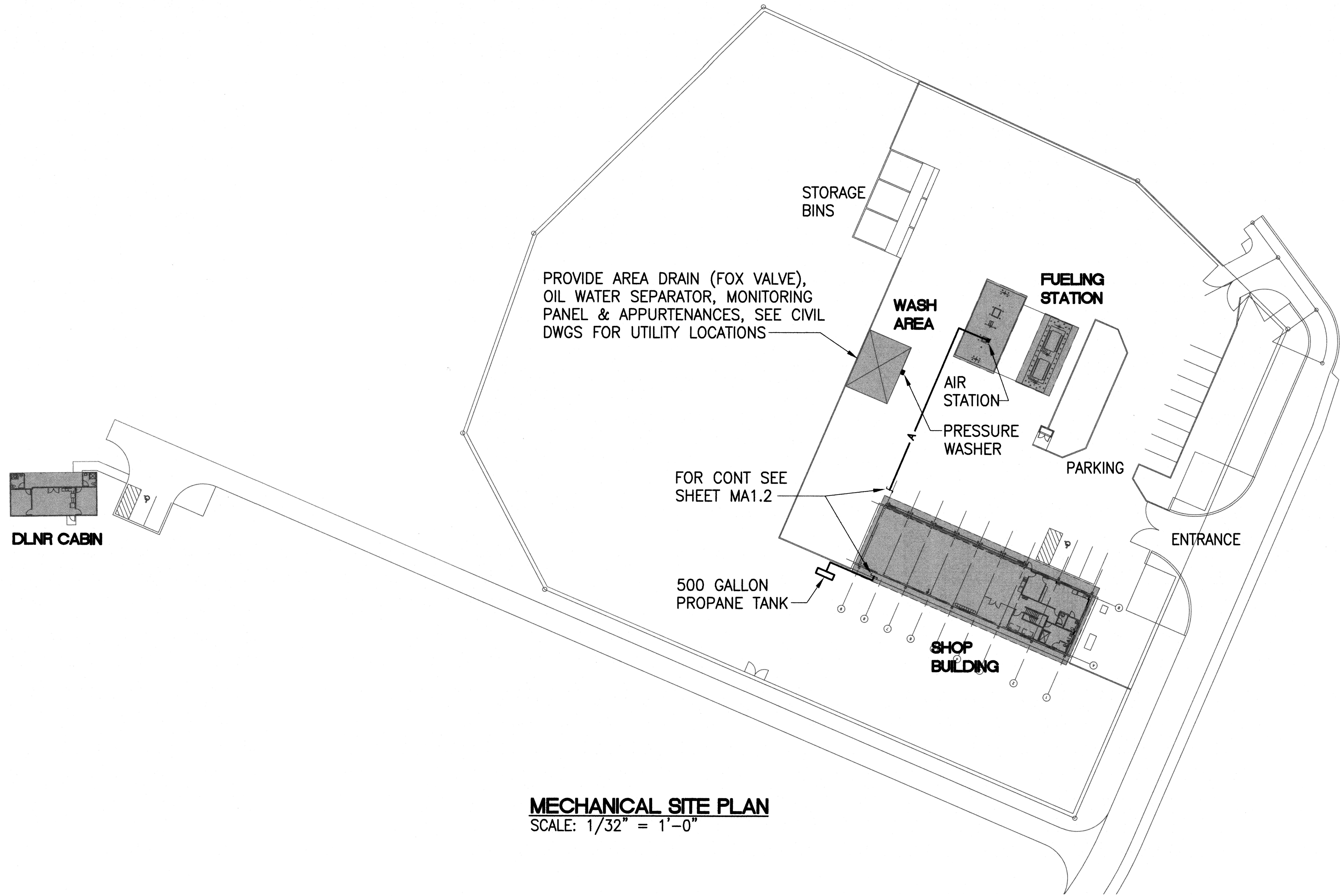
CHECKED BY

ORIGINAL PLAN

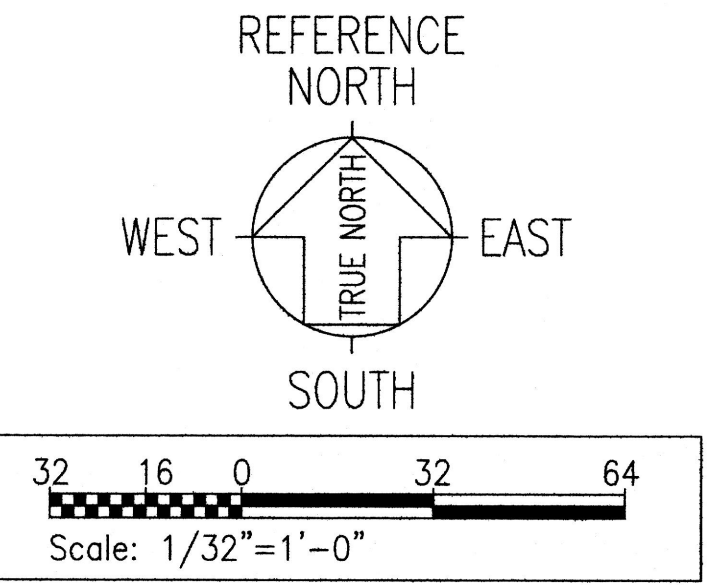
NOTE BOOK

No.

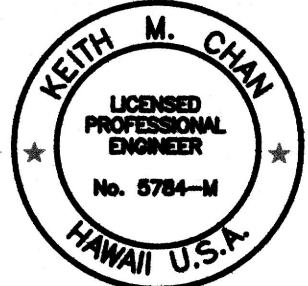
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	97	146



MECHANICAL SITE PLAN
SCALE: 1/32" = 1'-0"



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



SIGNATURE: *Keith M. Chan*
 EXP. DATE OF THE LICENSE: 04-30-20
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MECHANICAL SITE PLAN

MAUNA KEA MAINTENANCE BASEYARD

DANIEL K. INOUE HIGHWAY

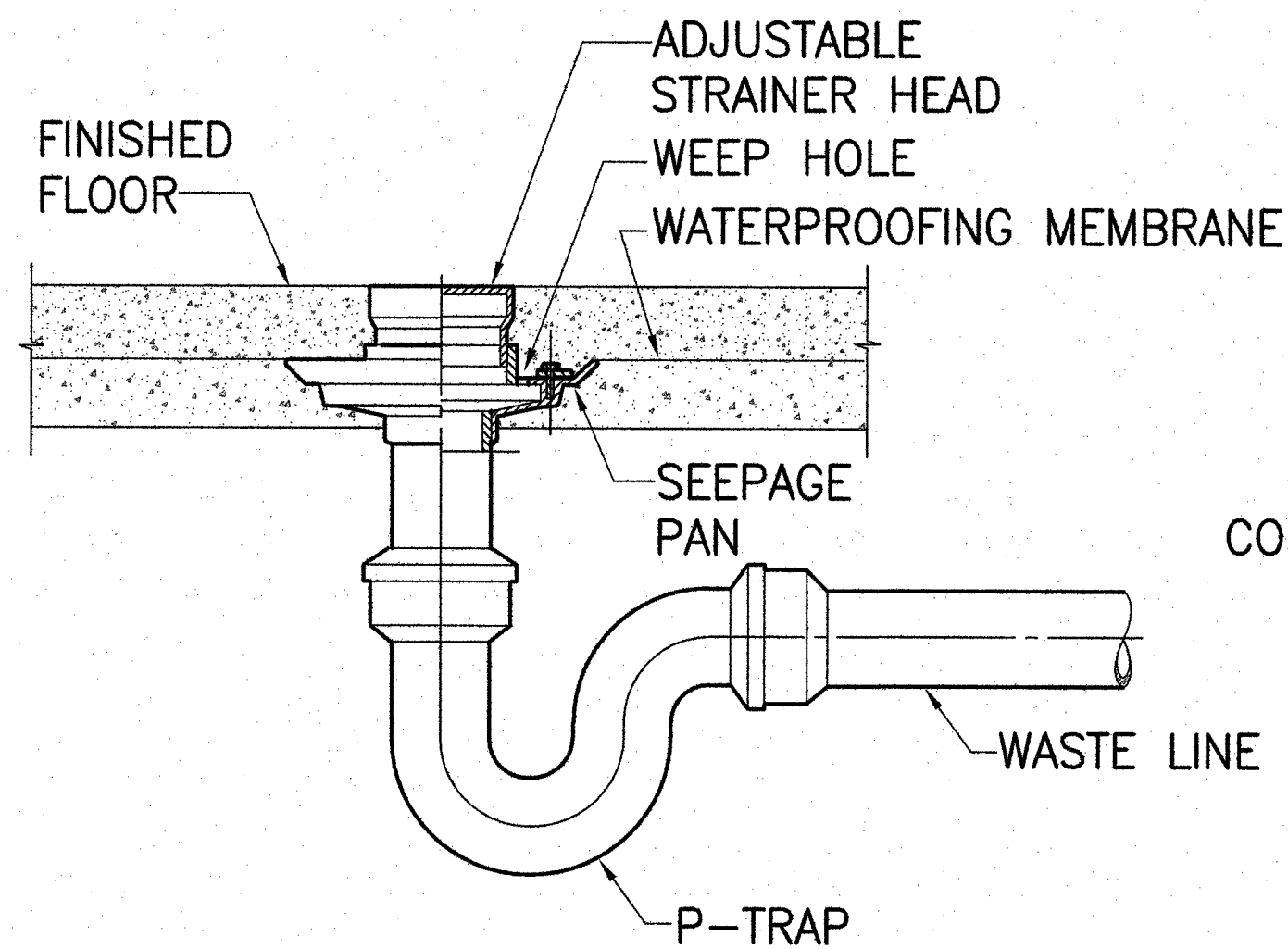
Project No. 200A-01-10

Scale: As Noted Date: April 2018

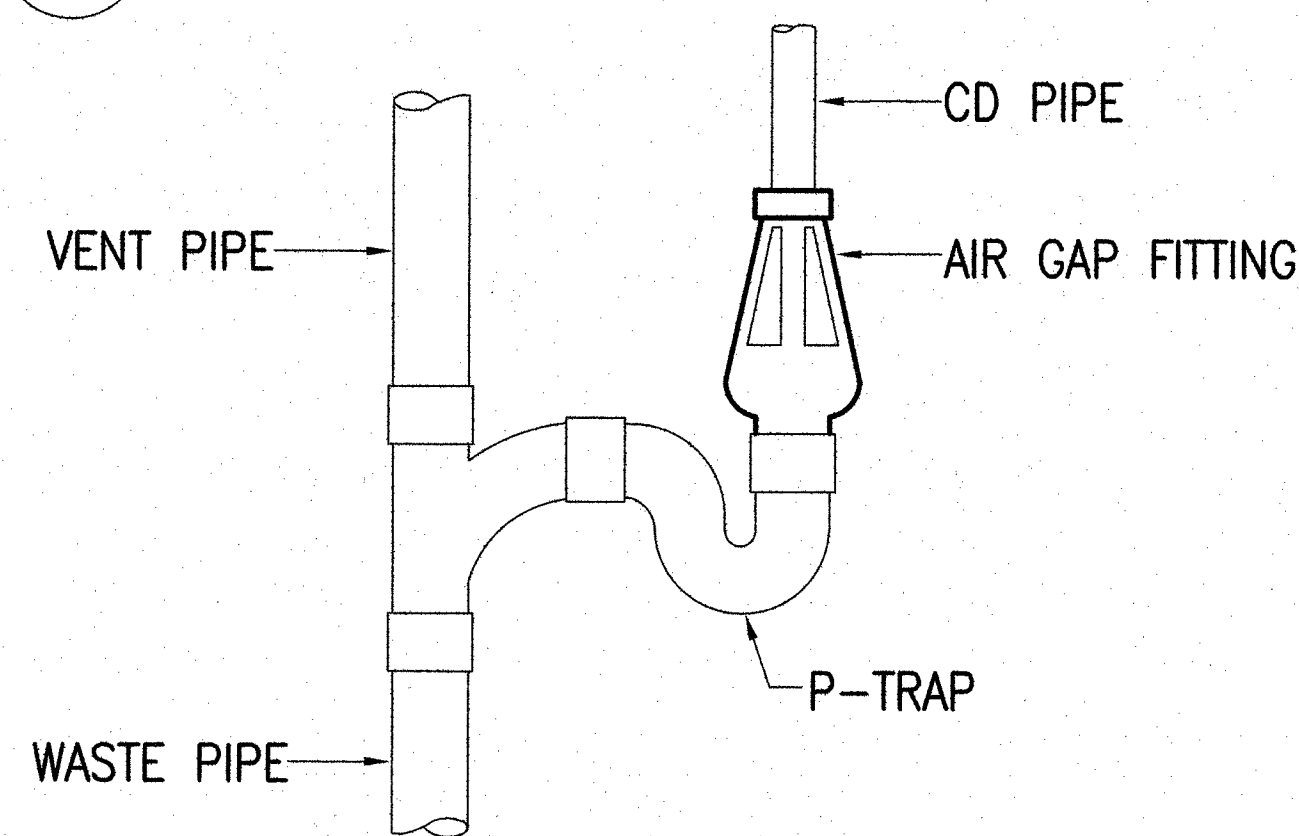
SHEET No. M0.2 OF 19 SHEETS

M0.2

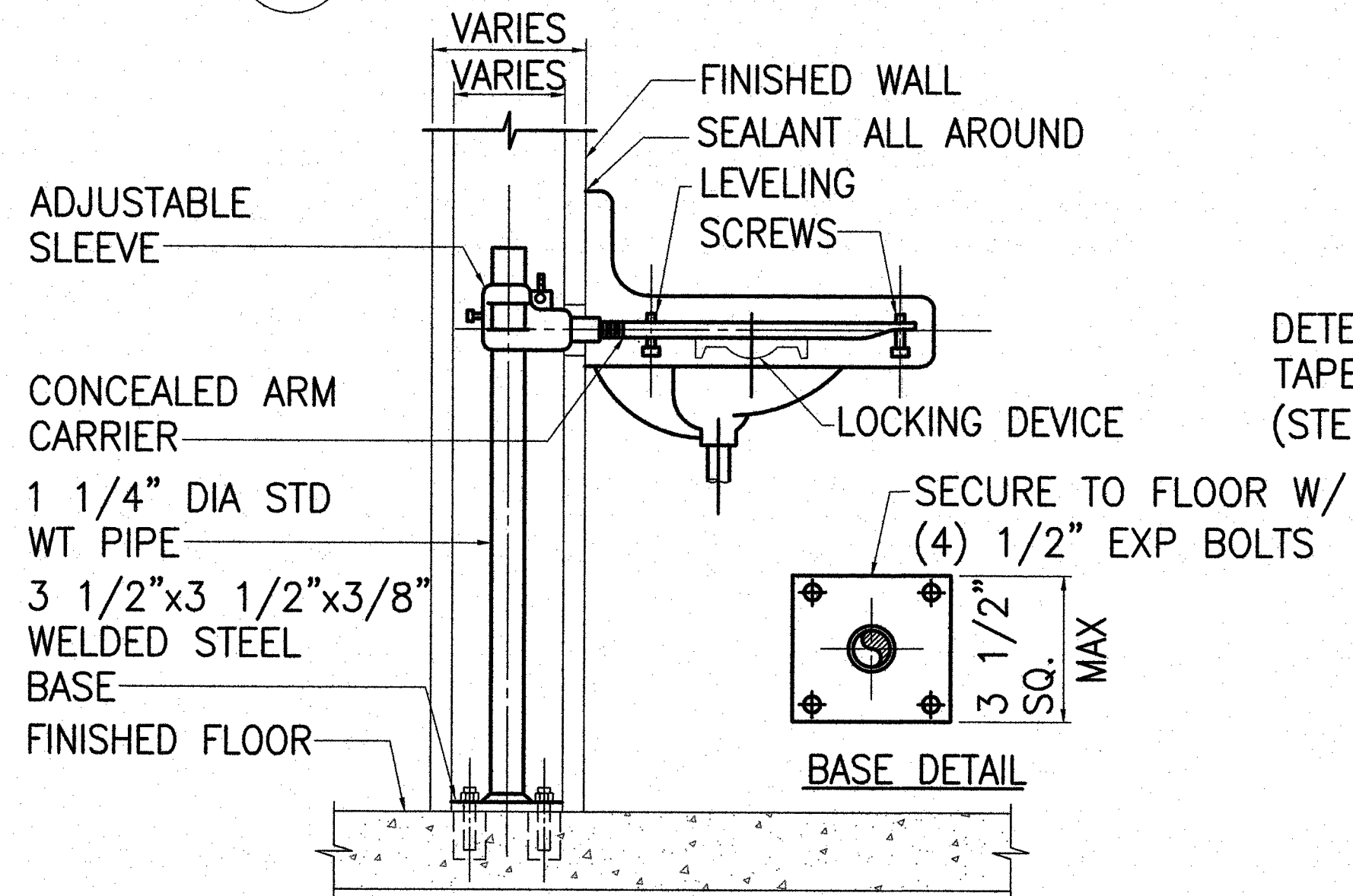
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	98	146



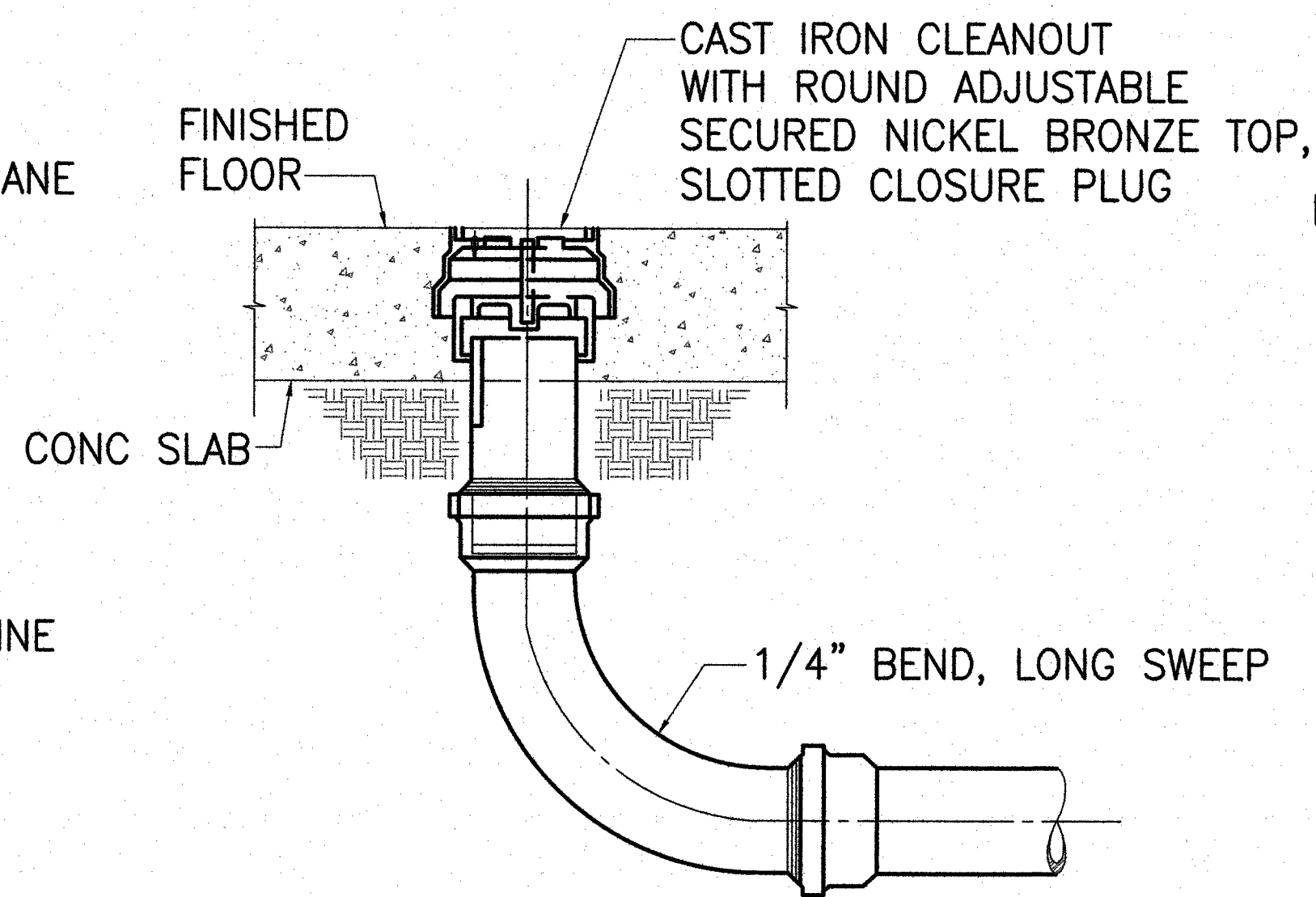
1 FLOOR /SHOWER DRAIN DETAIL
SCALE: NONE



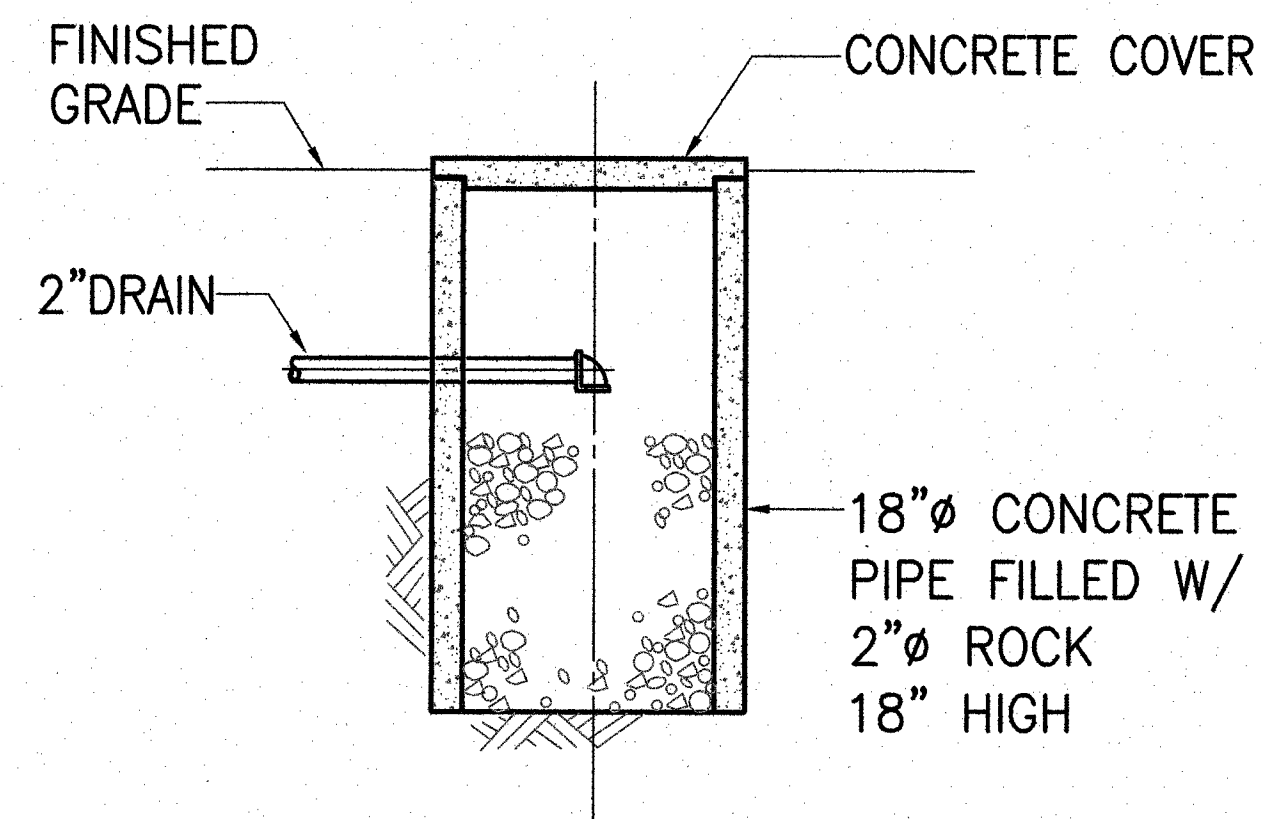
5 AIR GAP FITTING DETAIL
SCALE: NONE



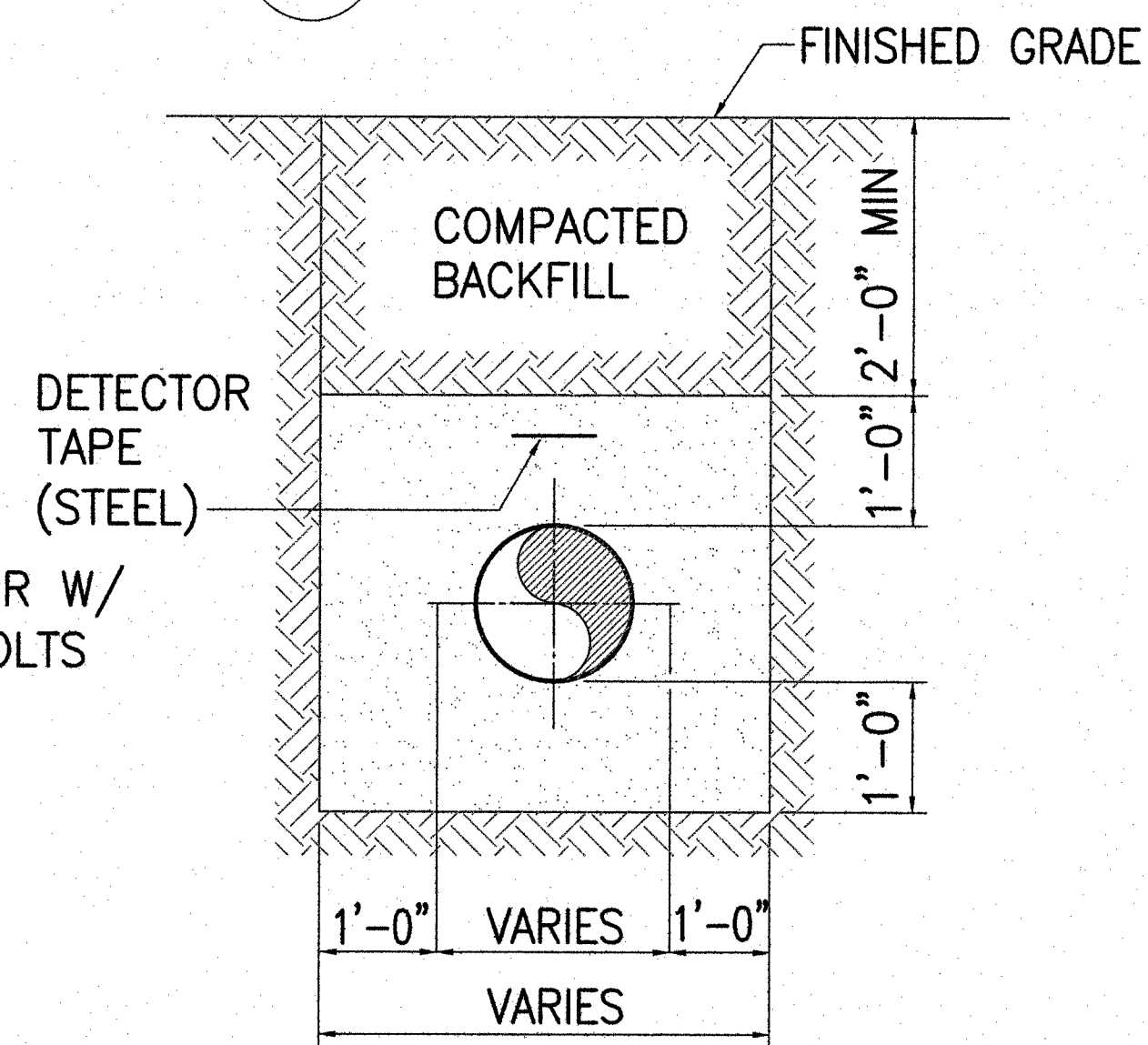
9 LAVATORY MOUNTING DETAIL
SCALE: NONE



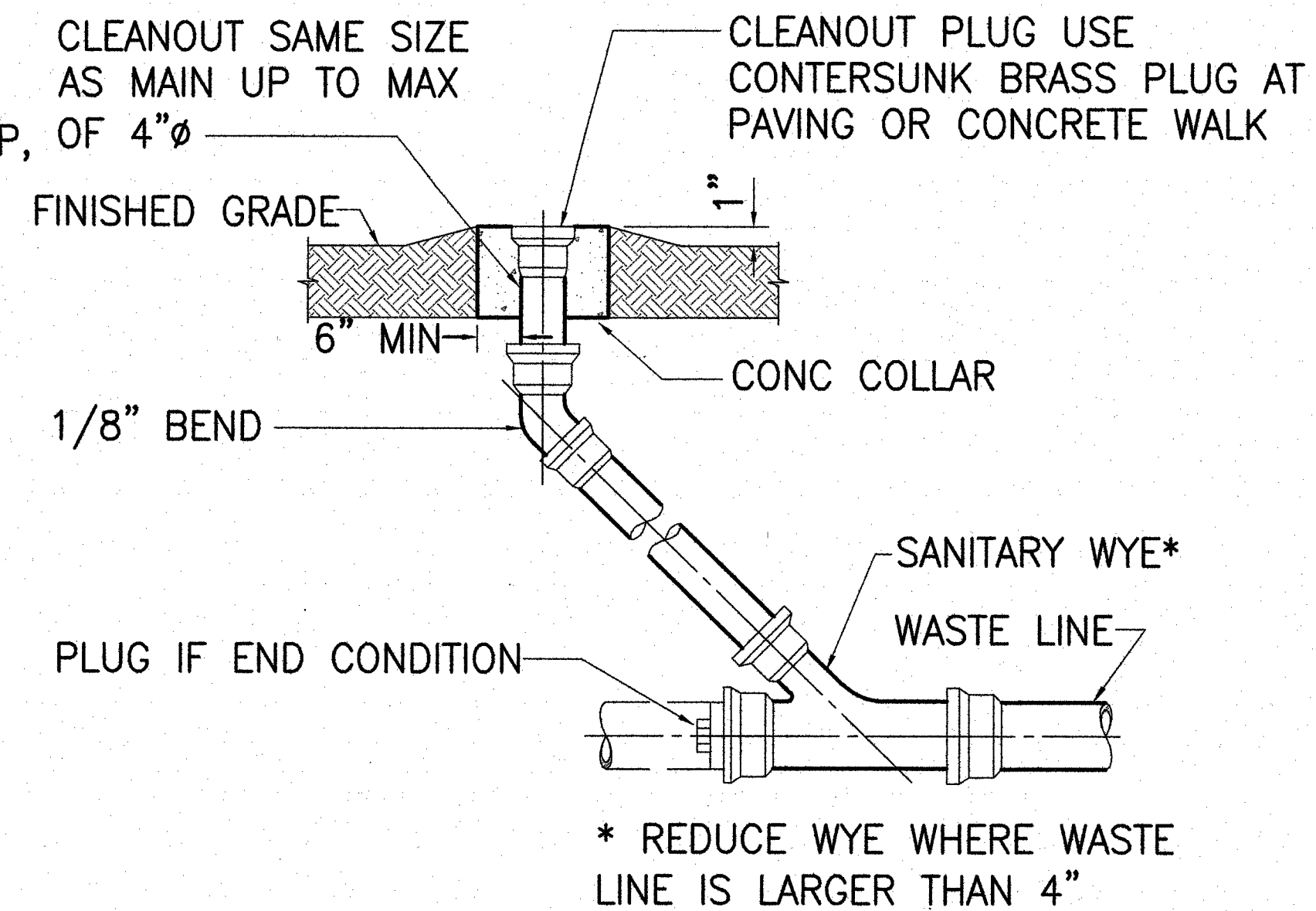
2 FLOOR CLEANOUT DETAIL
SCALE: NONE



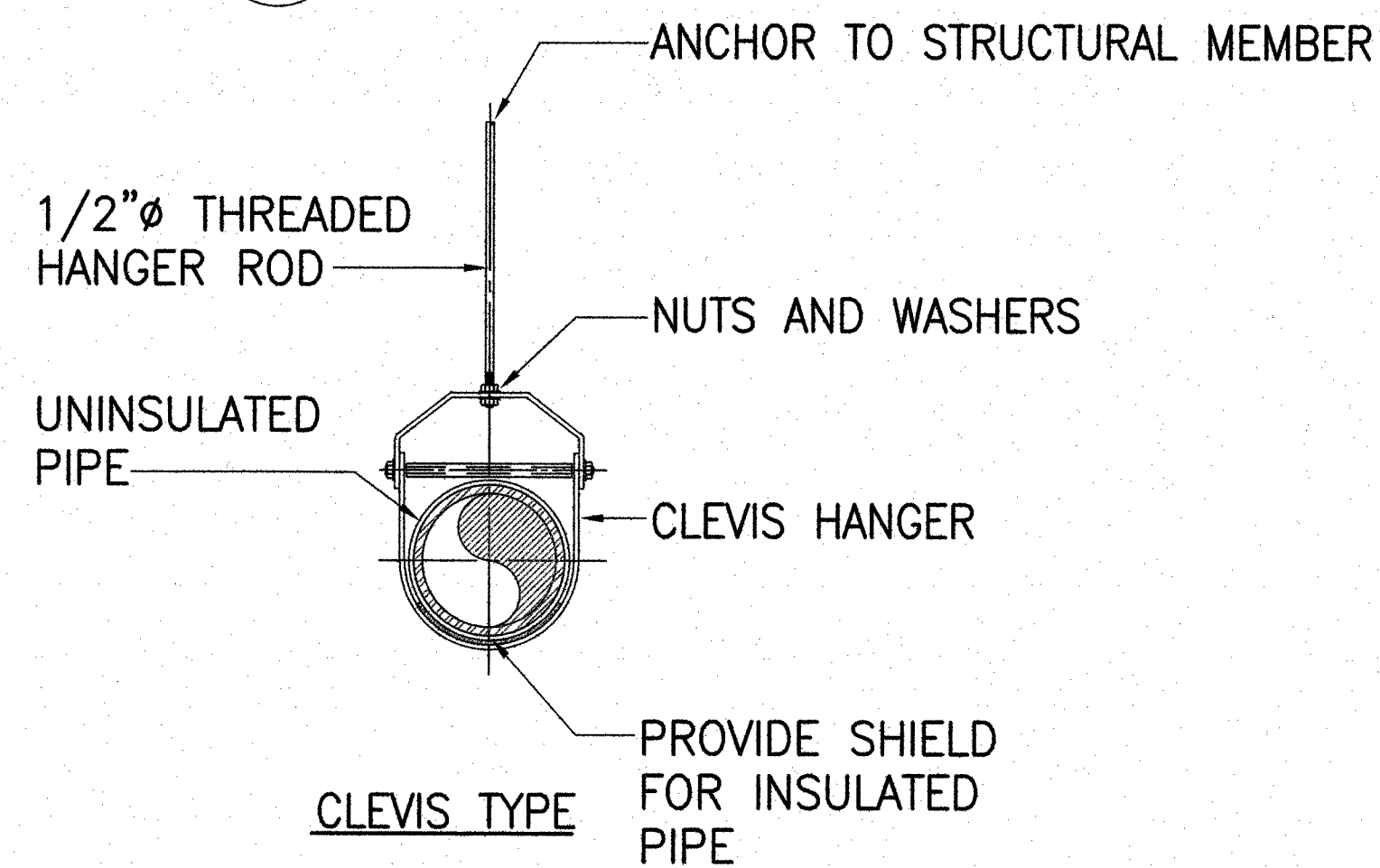
6 DRYWELL DETAIL
SCALE: NONE



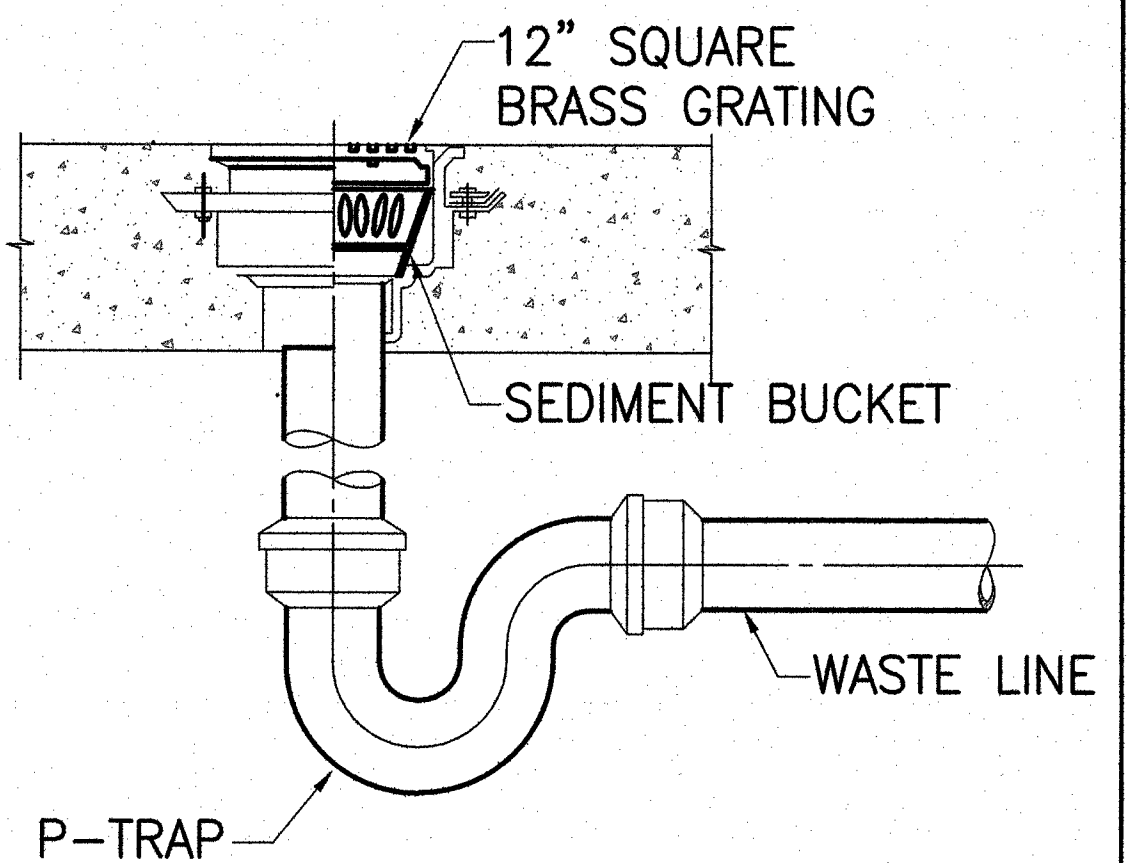
10 U/G GAS PIPING DETAIL
SCALE: NONE



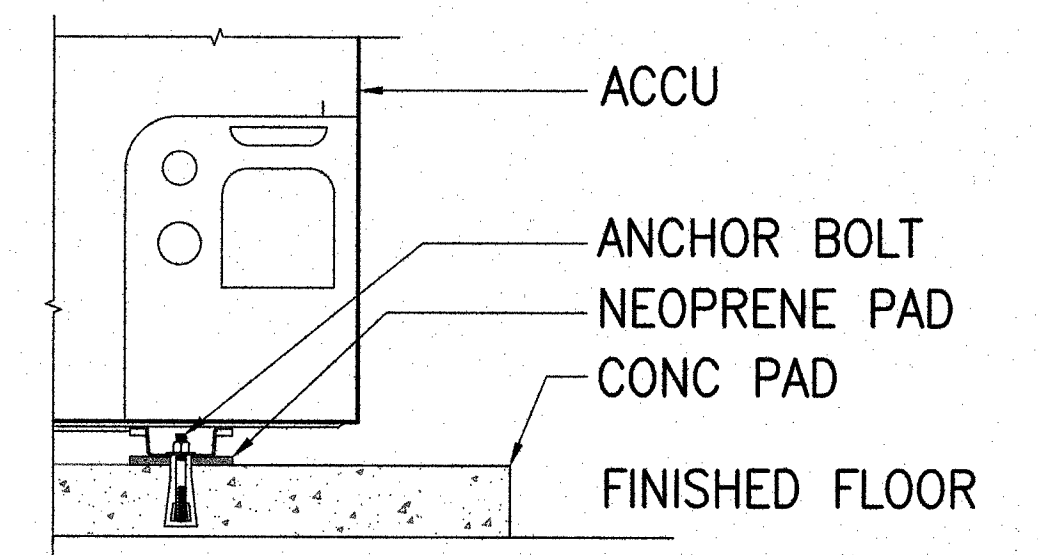
3 CLEANOUT TO GRADE DETAIL
SCALE: NONE



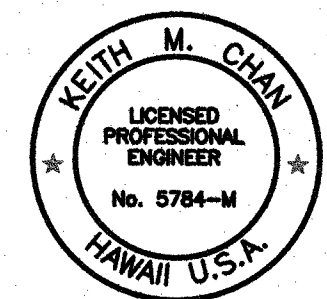
7 PIPE HANGER DETAIL
SCALE: NONE



4 FLOOR SINK DETAIL
SCALE: NONE



8 ACCU MOUNTING DETAIL
SCALE: NONE



SIGNATURE: *Keith M. Chan*
EXP. DATE OF THE LICENSE: 04-30-20
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DETAILS
MAUNA KEA MAINTENANCE
BASEYARD
DANIEL K. INOUE HIGHWAY

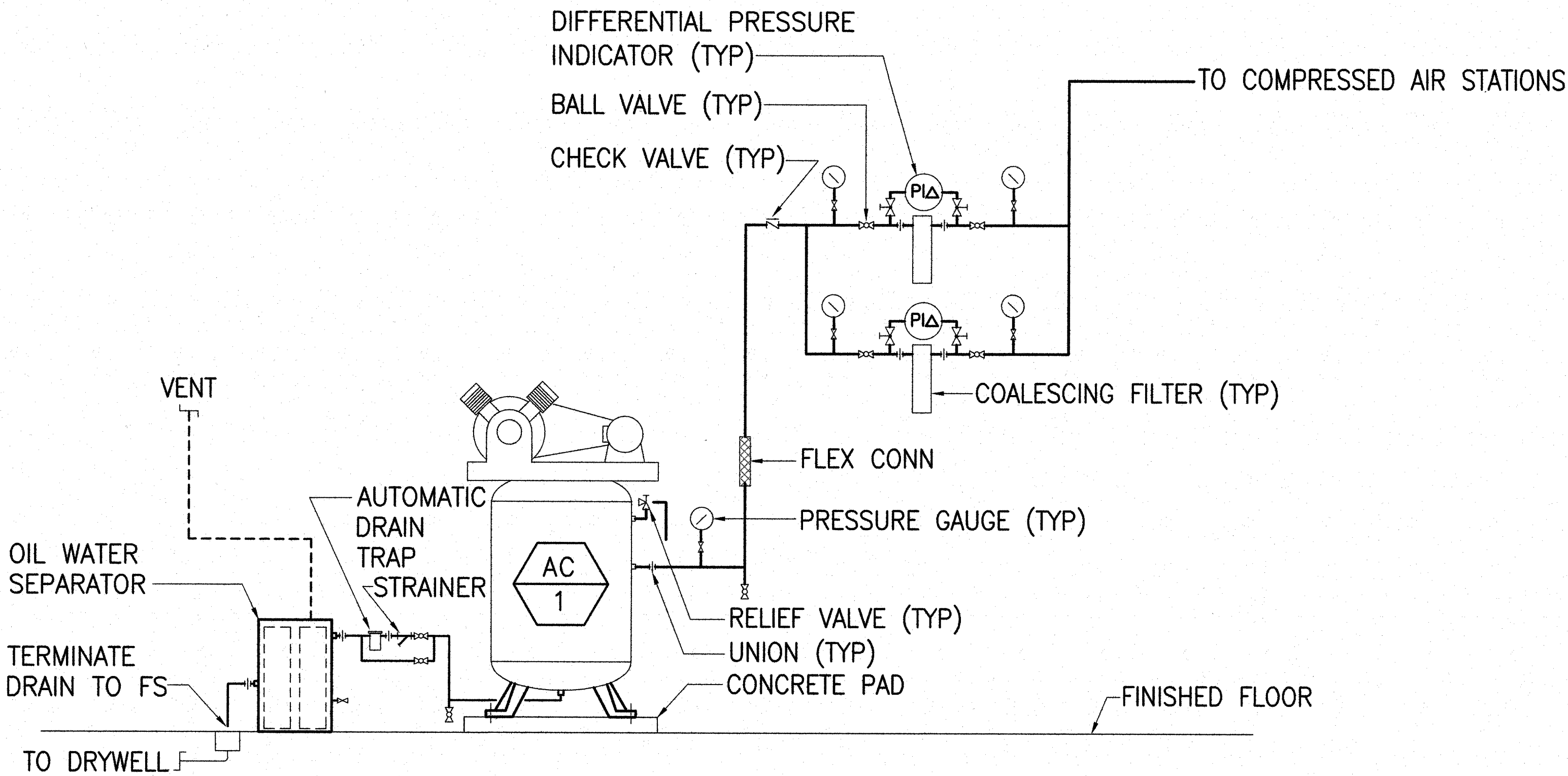
Project No. 200A-01-10

Scale: As Noted Date: April 2018

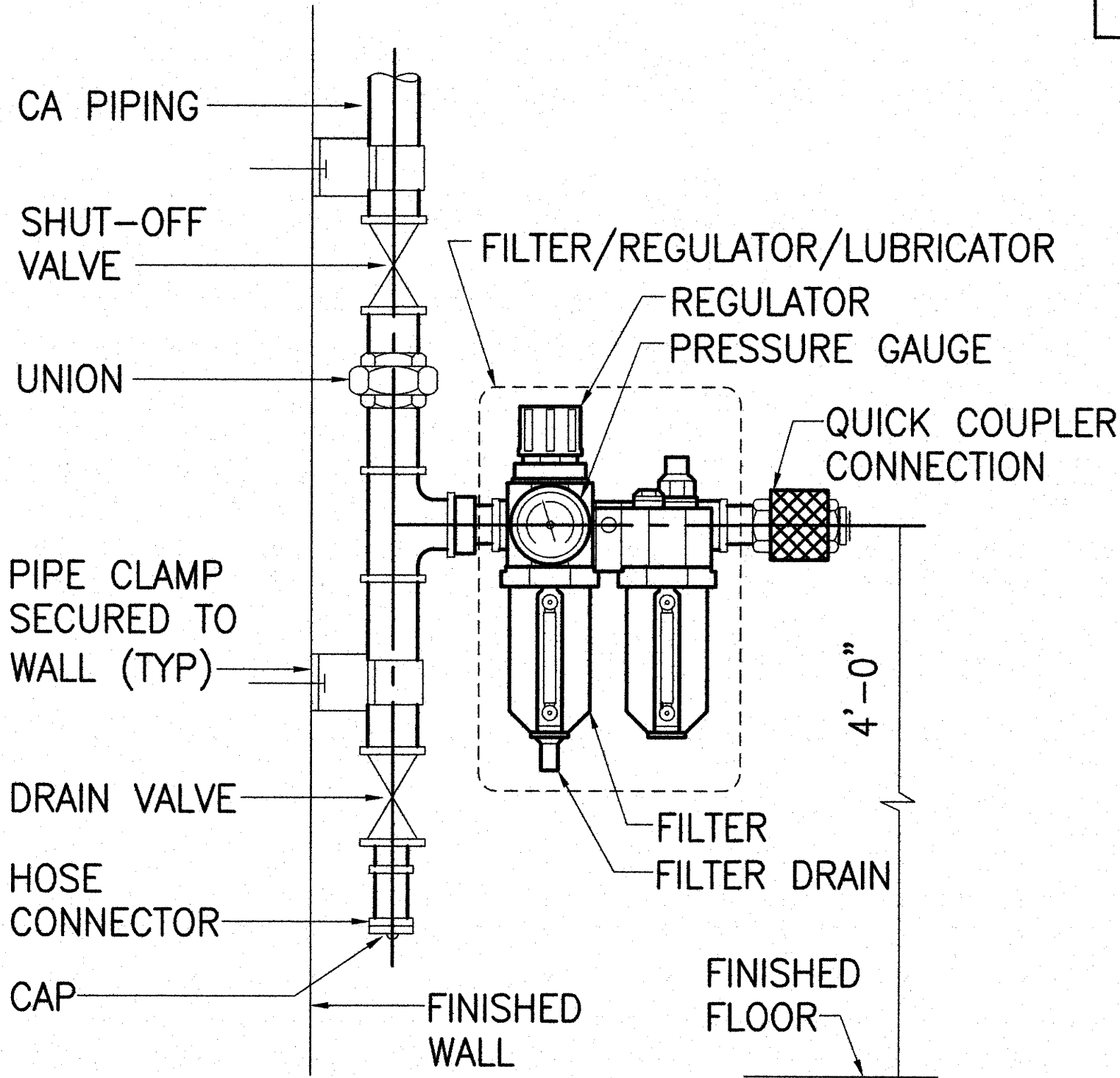
SHEET No. M0.3 OF 19 SHEETS

M0.3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	99	146



1 COMPRESSED AIR SCHEMATIC
 M0.4 SCALE: NONE



2 COMPRESSED AIR STATION DETAIL
 M0.4 SCALE: NONE

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

SIGNATURE: *Keith M. Chan*
 EXP. DATE OF THE LICENSE: 04-30-20
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DETAILS

MAUNA KEA MAINTENANCE BASEYARD

DANIEL K. INOUE HIGHWAY

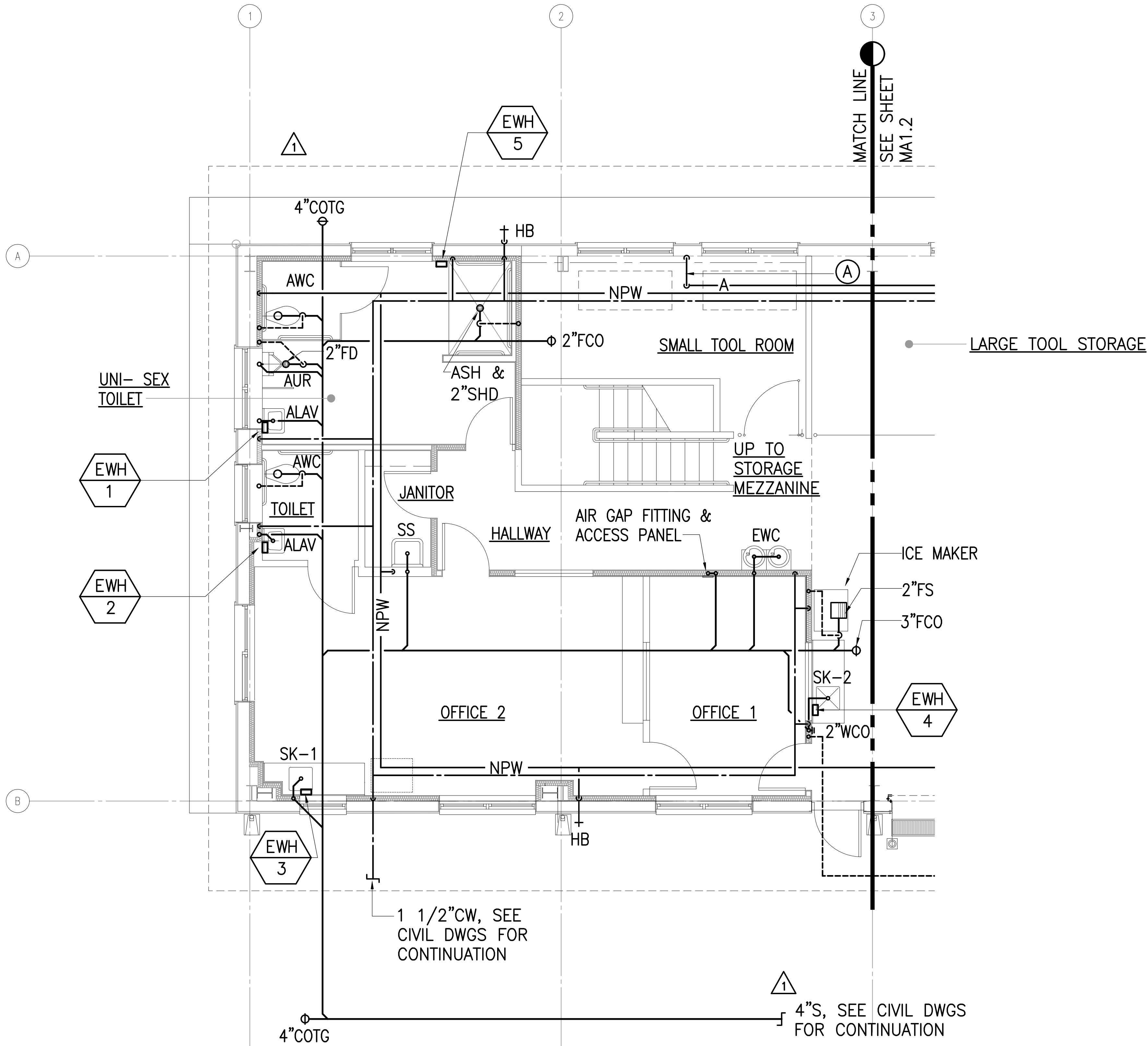
Project No. 200A-01-10

Scale: As Noted Date: April 2018

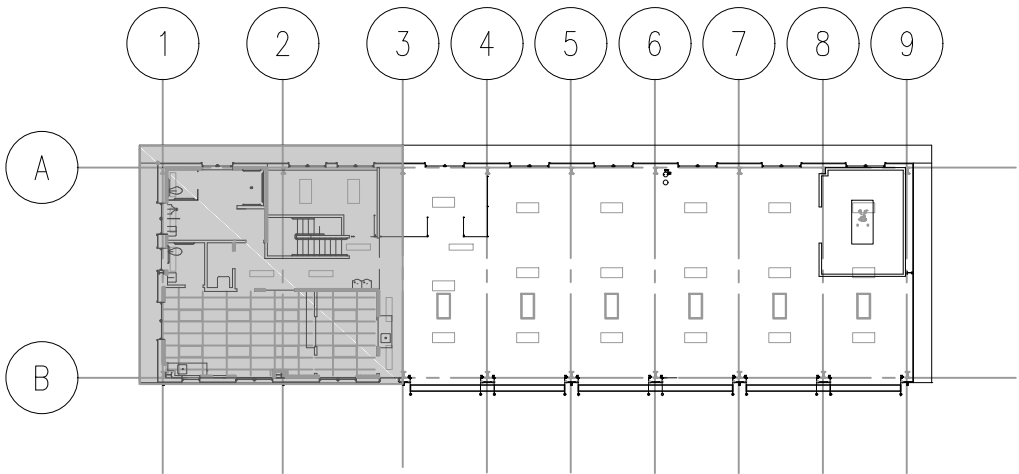
SHEET No. M0.4 OF 19 SHEETS

M0.4

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 100	146



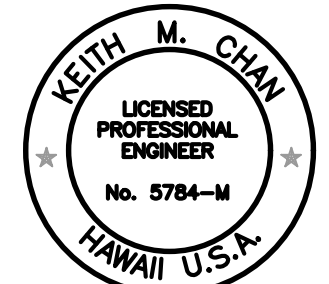
PARTIAL SHOP BLDG PLUMBING
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: NONE

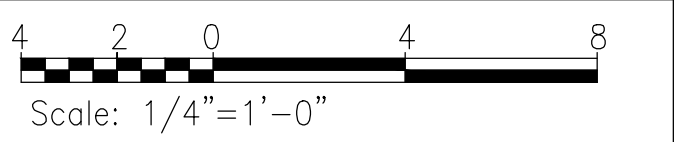
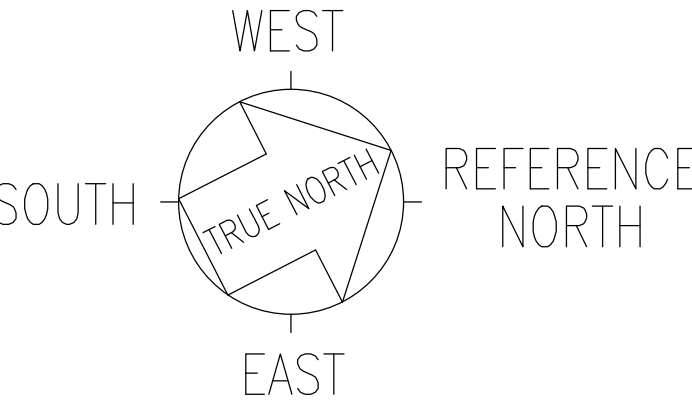
MA1.1

06-07-18	1	REVISED S AND NPW PIPING LAYOUT
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SHOP BLDG PLUMBING MAUNA KEA MAINTENANCE BASEYARD DANIEL K. INOUE HIGHWAY Project No. 200A-01-10		
Scale: As Noted Date: April 2018		
SHEET No. MA1.1 OF 19 SHEETS		



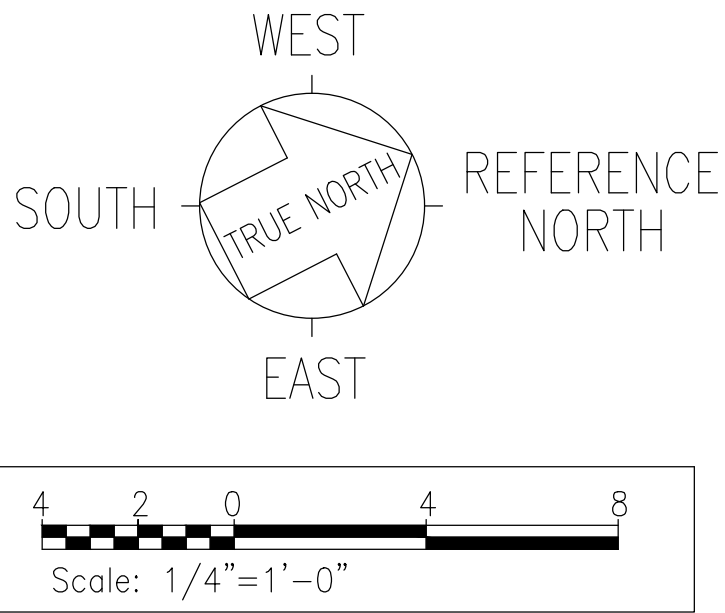
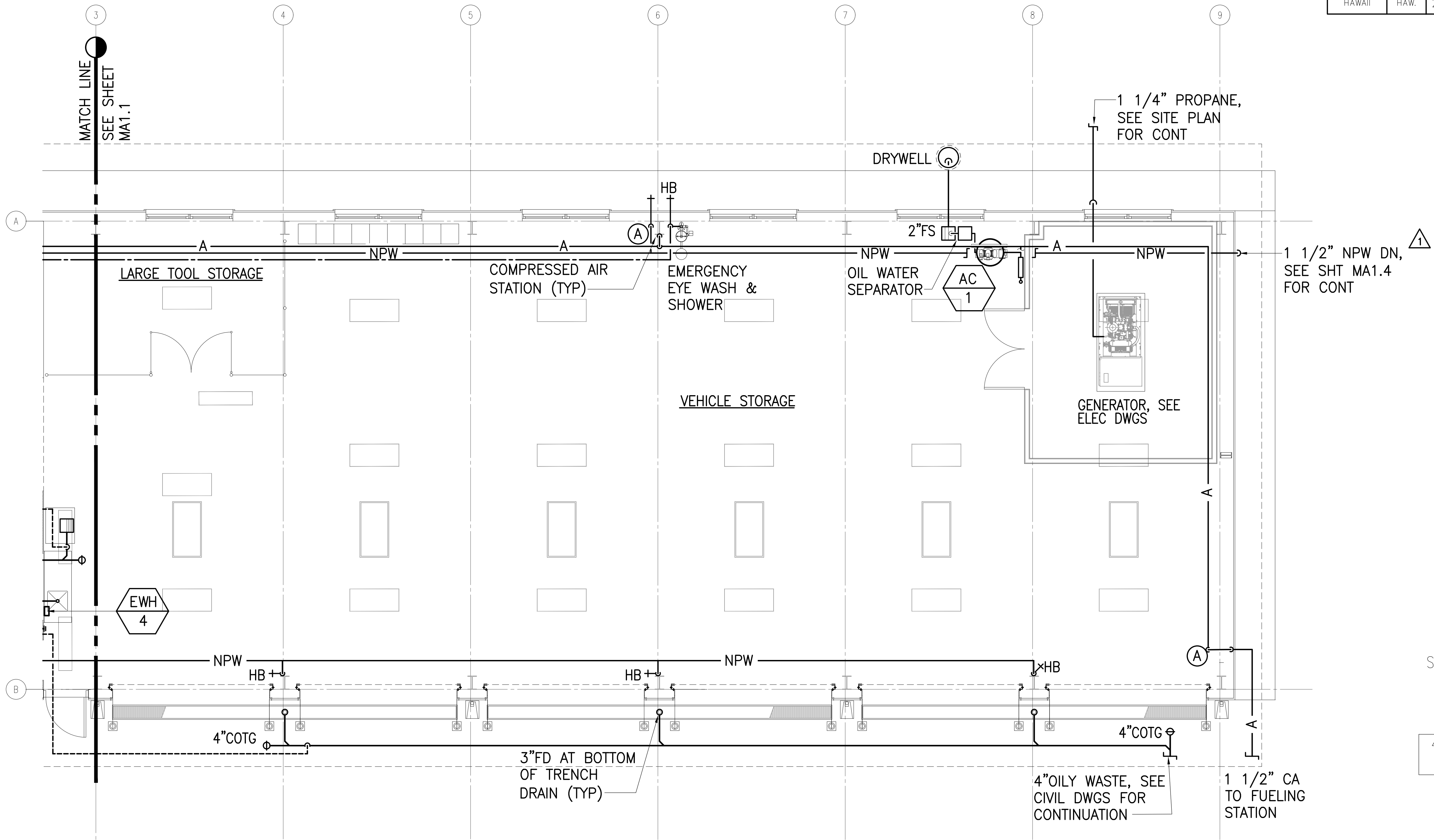
Keith M. Chan
04-30-20
SIGNATURE EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

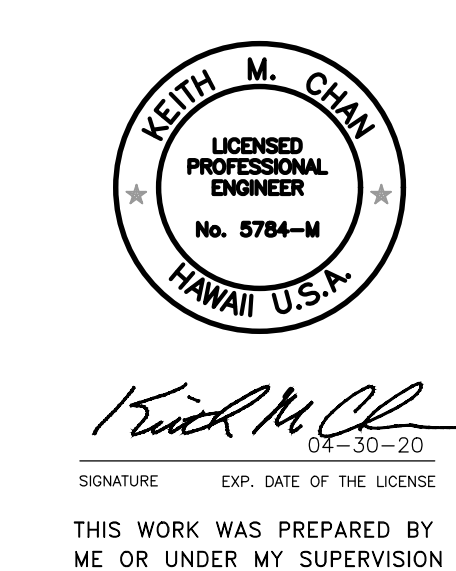
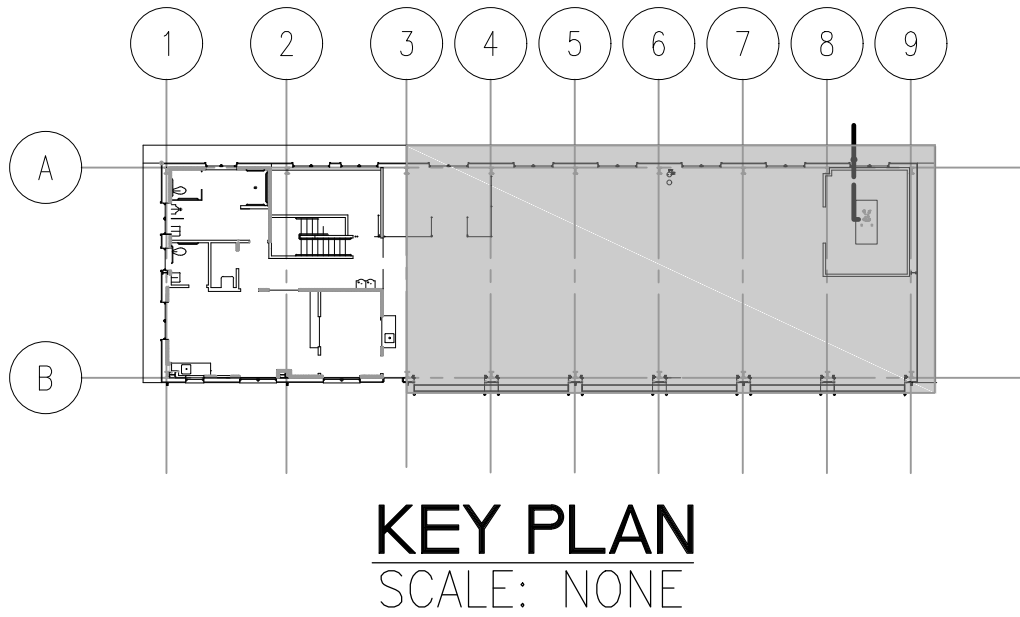


SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 101	146



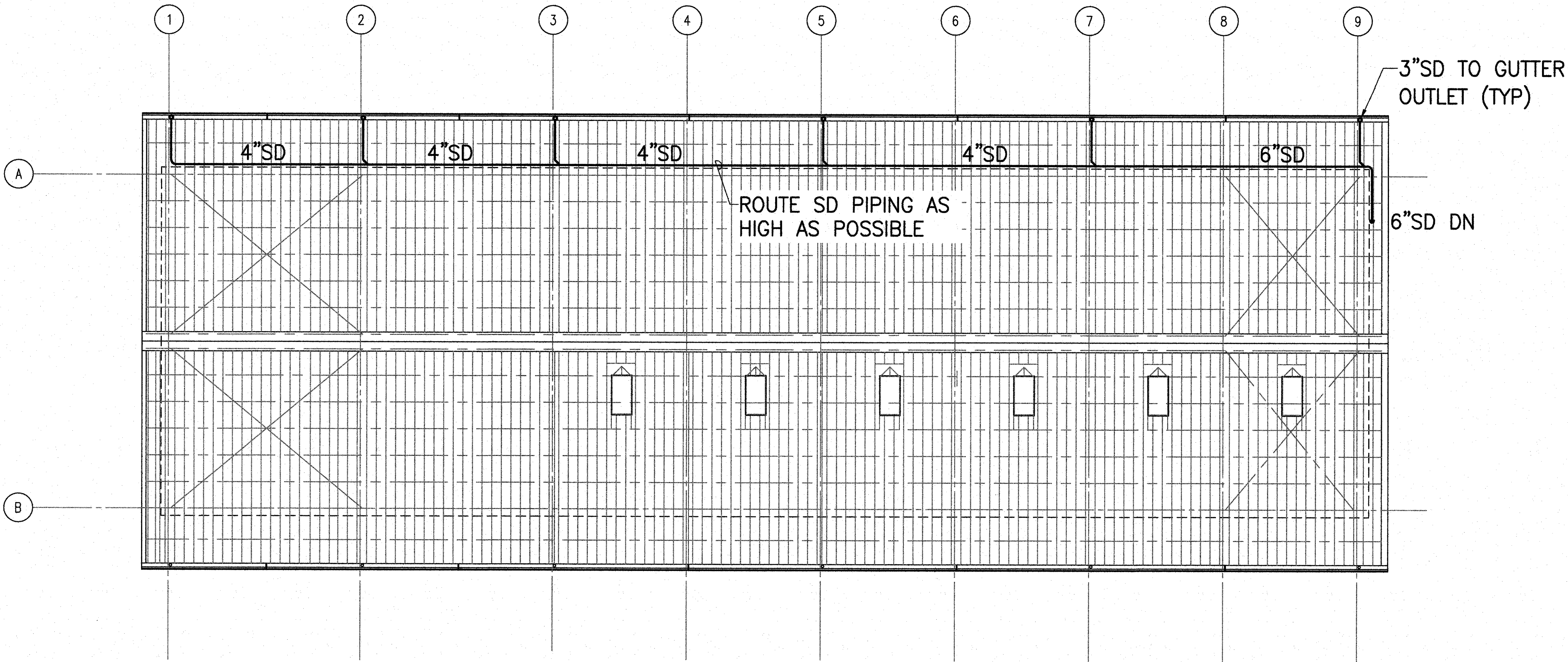
PARTIAL SHOP BLDG PLUMBING
SCALE: 1/4" = 1'-0"



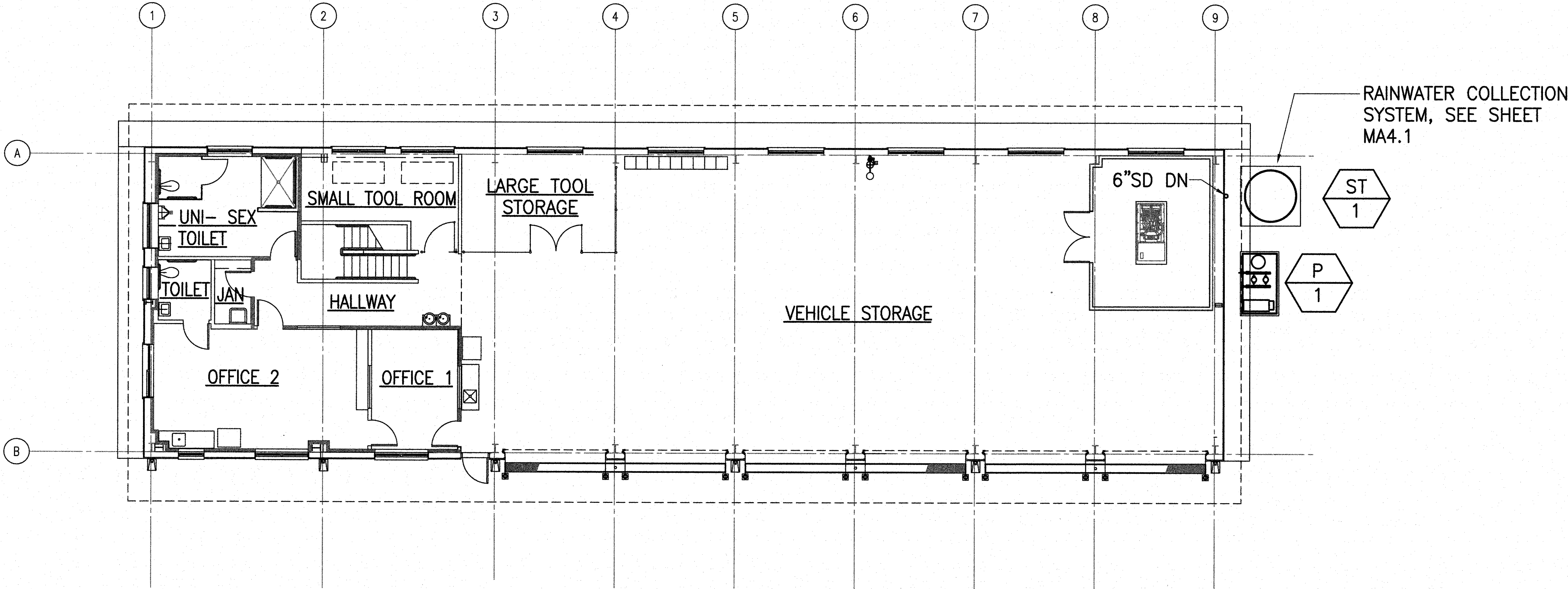
06-07-18	1 REVISED NPW PIPING LAYOUT
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>SHOP BLDG PLUMBING</u> <u>MAUNA KEA MAINTENANCE</u> <u>BASEYARD</u> <u>DANIEL K. INOUE HIGHWAY</u> <u>Project No. 200A-01-10</u>	
Scale: As Noted Date: April 2018	
SHEET No. MA1.2 OF 19 SHEETS	

MA1.2

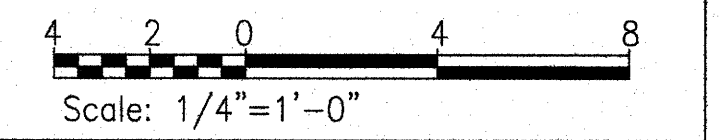
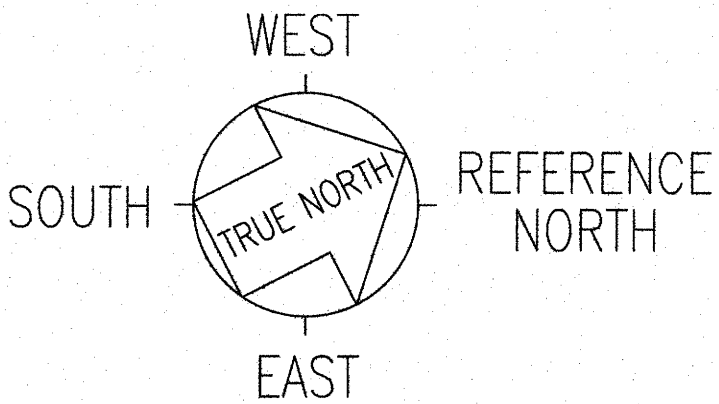
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	102	146



SHOP BLDG ROOF RAINWATER COLLECTION
 SCALE: 1/8" = 1'-0"



SHOP BLDG RAINWATER COLLECTION
 SCALE: 1/8" = 1'-0"

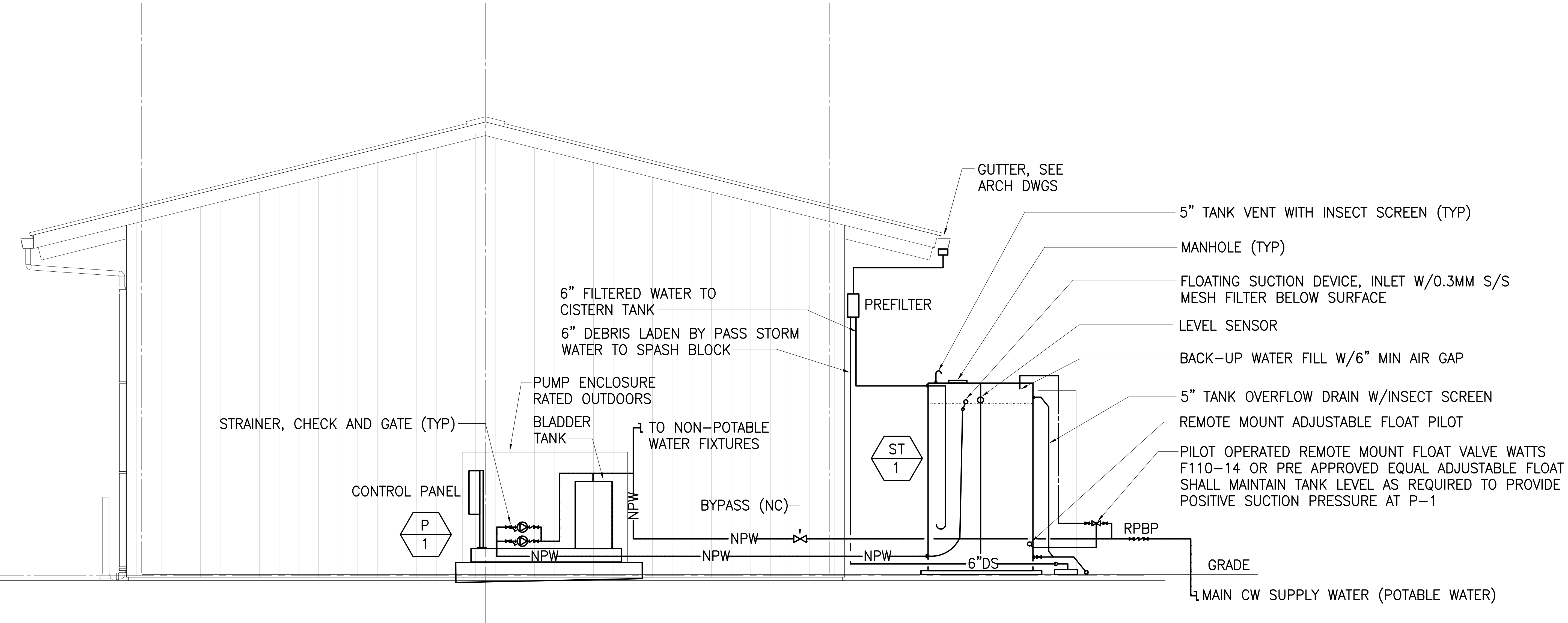


SIGNATURE: *Keith M. Chan*
 EXP. DATE OF THE LICENSE: 04-30-20
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SHOP BUILDING RAINWATER COLLECTION PLANS
MAUNA KEA MAINTENANCE BASEYARD
DANIEL K. INOUE HIGHWAY
 Project No. 200A-01-10
 Scale: As Noted Date: April 2018
 SHEET No. MA1.3 OF 19 SHEETS

MA1.3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 103	146

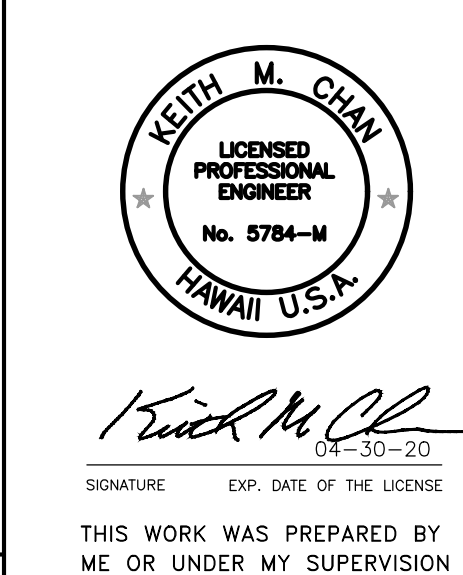


SHOP BLDG RAINWATER COLLECTION SCHEMATIC
SCALE: NONE

EQUIPMENT SCHEDULE

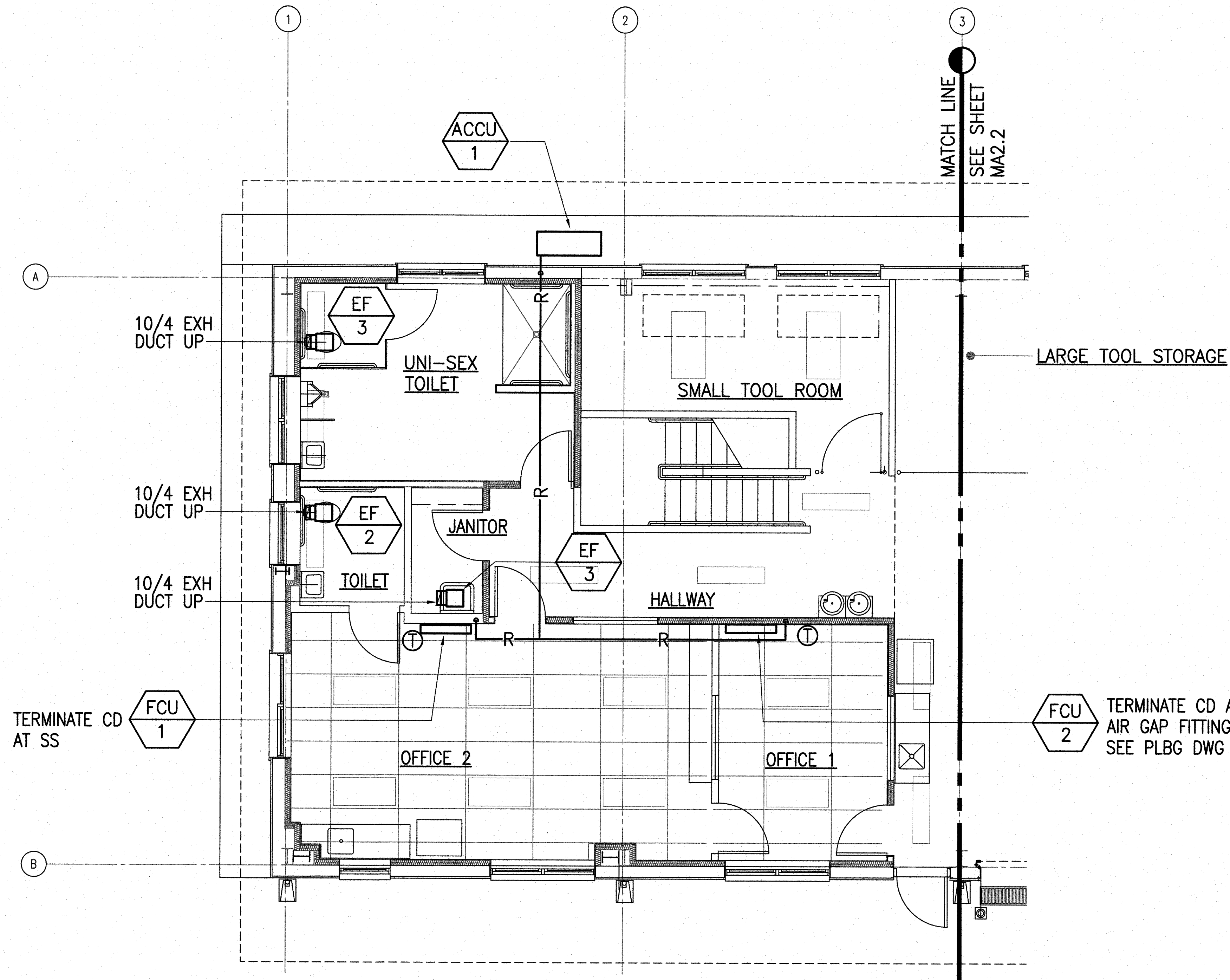
- ST 1** 1000 GALLON, VERTICAL HDPE (ANSI/NSF STANDARD 61) RAINWATER STORAGE TANK, 72" DIAMETER x 62" HIGH, UV PROTECTION, DESIGNED FOR CONTINMENT OF WATER (8.5 LBS/GALLON), REQUIRED TANK FITTINGS & APPURTENANCES, 5 YEAR WARRANTY, RAIN HARVEST OR APPROVED EQUAL
- 1 P 1** ENGINEERED PACKAGED DUPLEX VARIABLE SPEED DOMESTIC WATER BOOSTER PUMP, 20 GPM AT 50 PSI BOOST, GRUNDFOS SERIES CR, MODEL CR 3-7, CAST IRON, SS FITTED, MECHANICAL SEAL, VERTICAL MULTISTAGE PUMP COUPLED TO A 1.5 HP, 3600 RPM, 460/3/60, TEFC PREMIUM EFFICIENT MOTOR, NON-SLAM CHECK VALVE, ISOLATION LUG STYLE BUTTERFLY VALVE, PRESSURE GAUGES WITH ISOLATION VALVES, NON-ELECTRIC COMBINATION TEMPERATURE PROBE/PURGE ASSEMBLY, UL LISTED NEMA 1 POWER AND CONTROL PANEL, SS SUCTION AND DISCHARGE PIPING, 4.4 150# NON-ASME TANK SKID MOUNTED, NSF-61/NSF 372 COMPLIANT SYSTEM AND OUTDOOR ENCLOSURE. TIGERFLOW SERIES VMD-4000-MB-VFD, TIGERCUB MODEL SVMV-1.5GF-S3-S2-VM-P-VFD, UL/C-UL LISTED OR APPROVED EQUAL.

06-07-18	1	REVISE EQUIPMENT NO. P-1
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SHOP BUILDING RAINWATER COLLECTION SCHEMATIC MAUNA KEA MAINTENANCE BASEYARD DANIEL K. INOUE HIGHWAY Project No. 200A-01-10 Scale: As Noted Date: April 2018 SHEET No. MA1.4 OF 19 SHEETS		

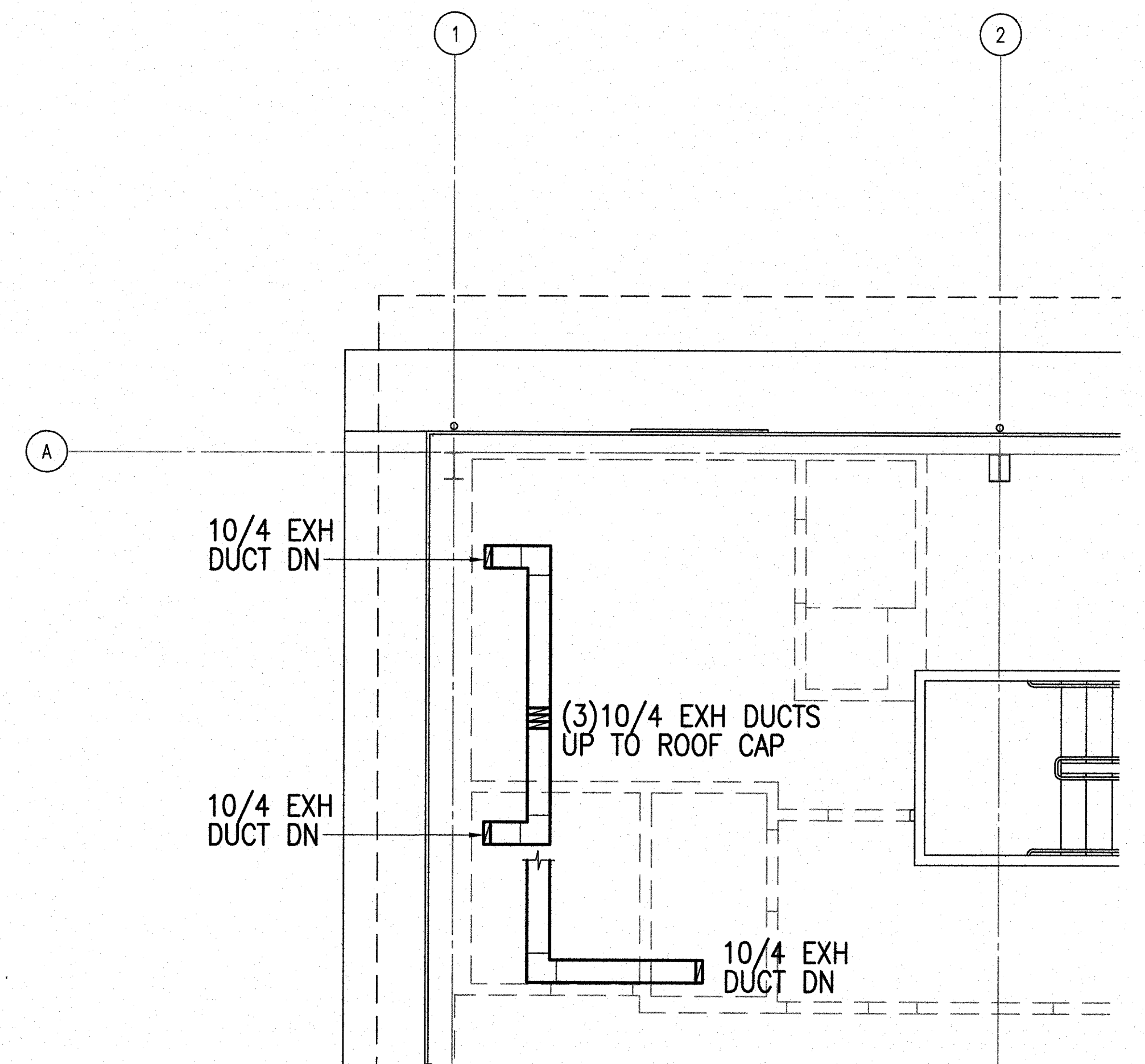


MA1.4

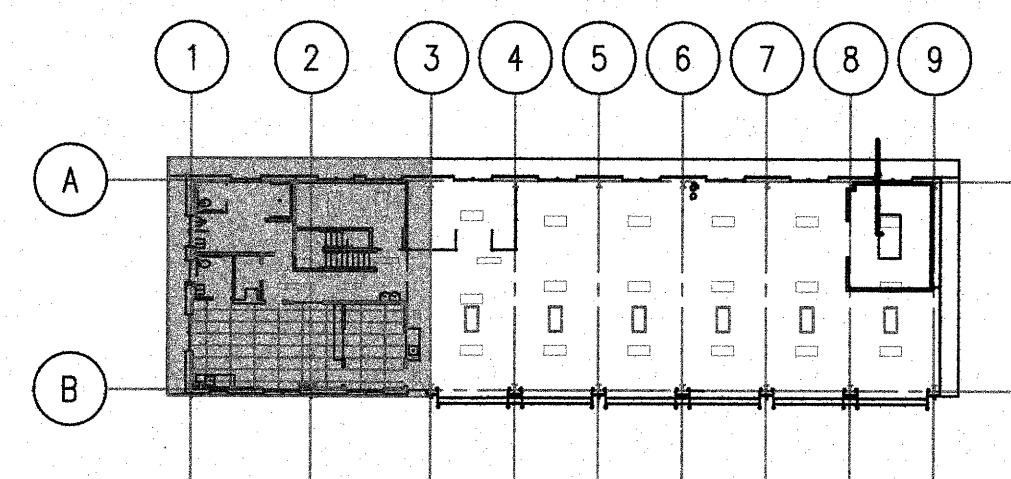
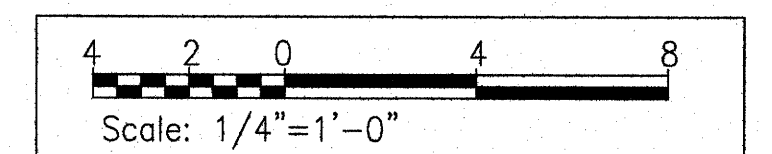
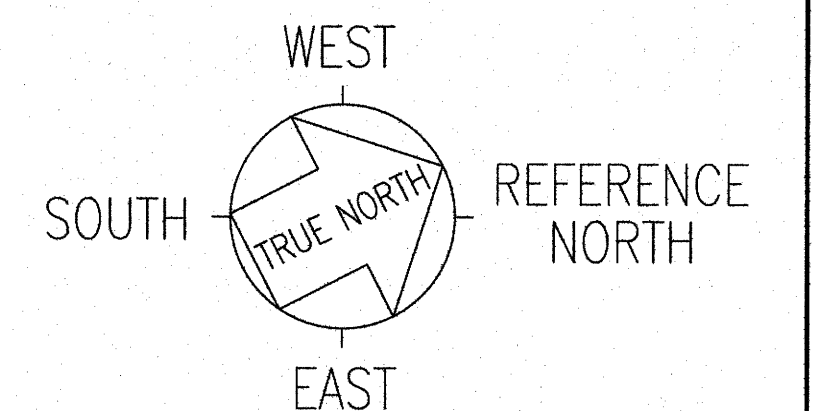
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	104	146



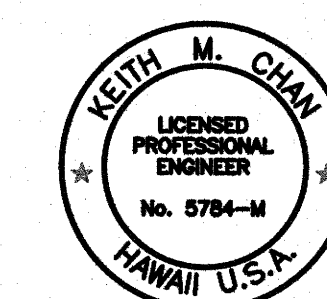
PARTIAL SHOP BLDG ACV
SCALE: 1/4" = 1'-0"



PARTIAL ACV MEZZANINE PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: NONE



Keith M. Chan
04-30-20
SIGNATURE EXP. DATE OF THE LICENSE
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

MA21

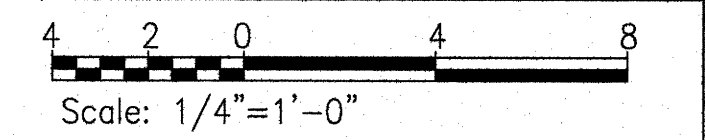
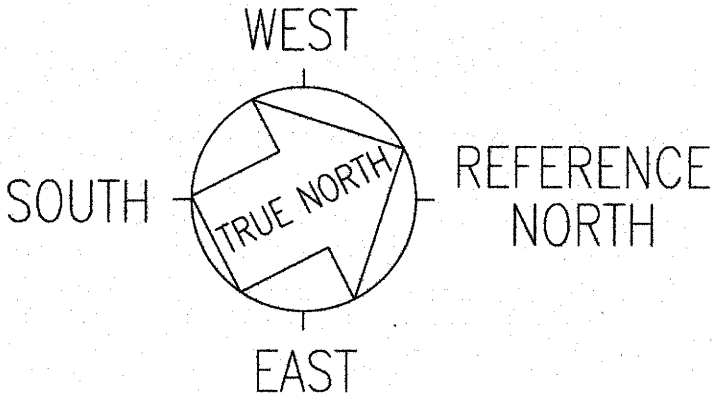
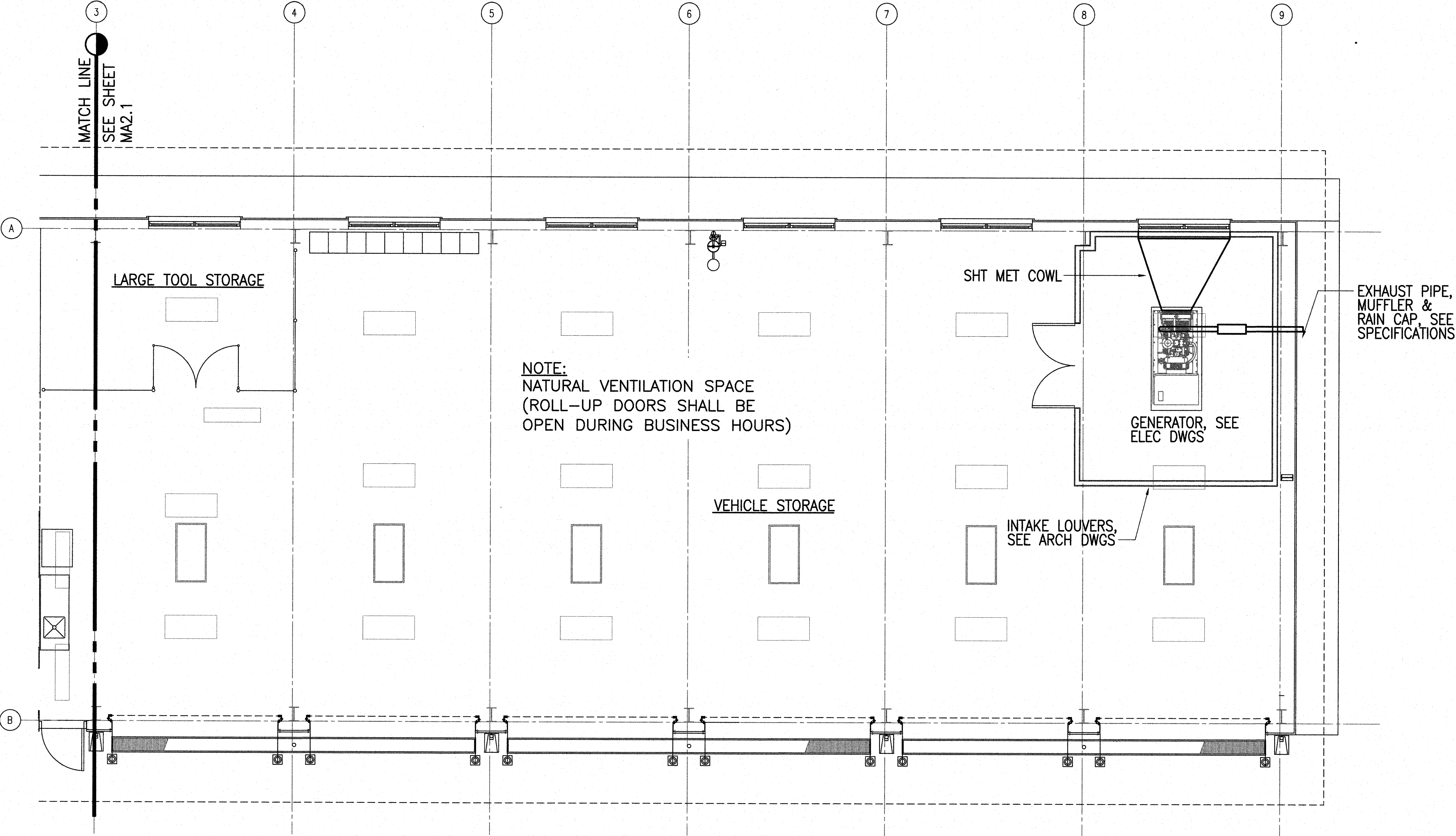
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOP BLDG ACV
MAUNA KEA MAINTENANCE
BASEYARD
DANIEL K. INOUE HIGHWAY
Project No. 200A-01-10

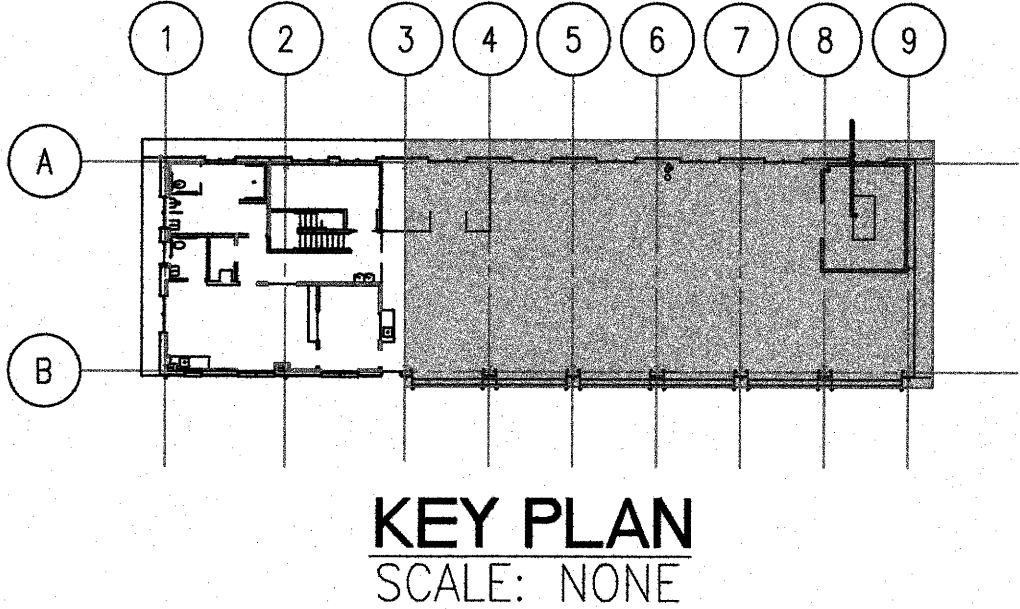
Scale: As Noted Date: April 2018
SHEET No. MA2.1 OF 19 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	105	146

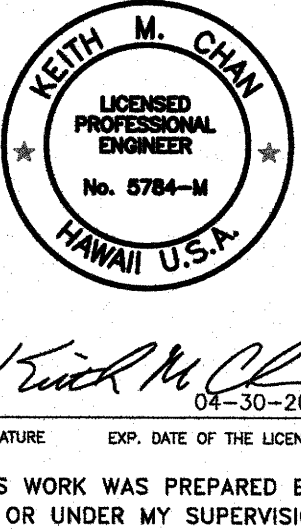


PARTIAL SHOP BLDG ACV
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: NONE

MA2.2

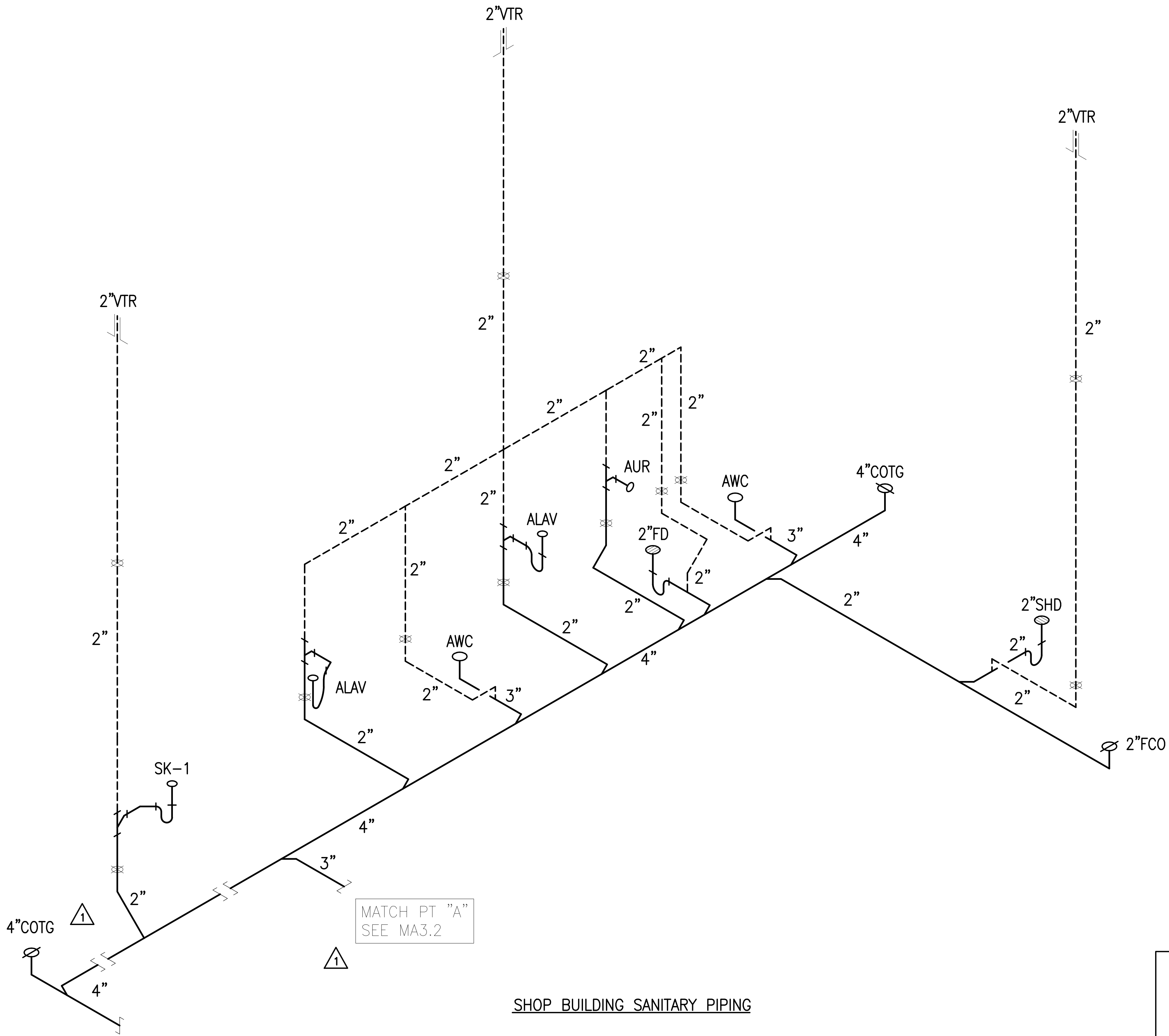


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SHOP BLDG ACV
MAUNA KEA MAINTENANCE
BASEYARD
DANIEL K. INOUE HIGHWAY
Project No. 200A-01-10

Scale: As Noted Date: April 2018

SHEET No. MA2.2 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 106	146



SHOP BUILDING SANITARY PIPING

PLUMBING DIAGRAMS
SCALE: NONE

06-07-18	1	REVISED DIAGRAM & ADDED NOTES
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DIAGRAMS</u> <u>MAUNA KEA MAINTENANCE</u> <u>BASEYARD</u> <u>DANIEL K. INOUE HIGHWAY</u> <u>Project No. 200A-01-10</u> Scale: As Noted Date: April 2018		
SHEET No. MA3.1 OF 19 SHEETS		

KEITH M. CHAN

LICENSED PROFESSIONAL ENGINEER

No. 5784-M

HAWAII U.S.A.



04-30-20

SIGNATURE

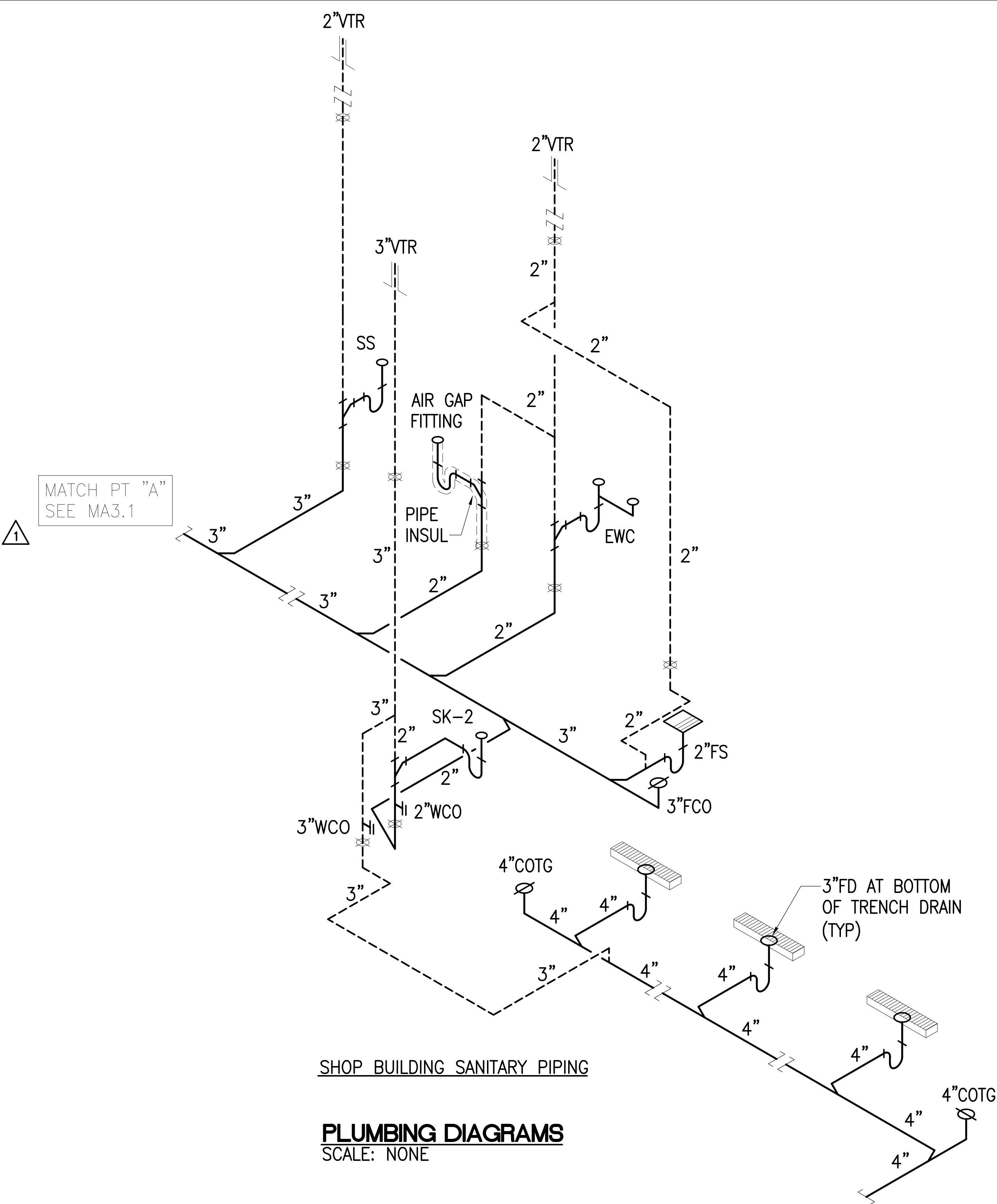
EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

MA3.1

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 107	146



SHOP BUILDING SANITARY PIPING

PLUMBING DIAGRAMS
SCALE: NONE

06-07-18	1 ADDED CLASSIFICATION NOTE
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DIAGRAMS</u> <u>MAUNA KEA MAINTENANCE</u> <u>BASEYARD</u> <u>DANIEL K. INOUEY HIGHWAY</u> <u>Project No. 200A-01-10</u> Scale: As Noted Date: April 2018	
SHEET No. MA3.2 OF 19 SHEETS	

KEITH M. CHAN

LICENSED PROFESSIONAL ENGINEER

No. 5784-M

HAWAII U.S.A.



04-30-20

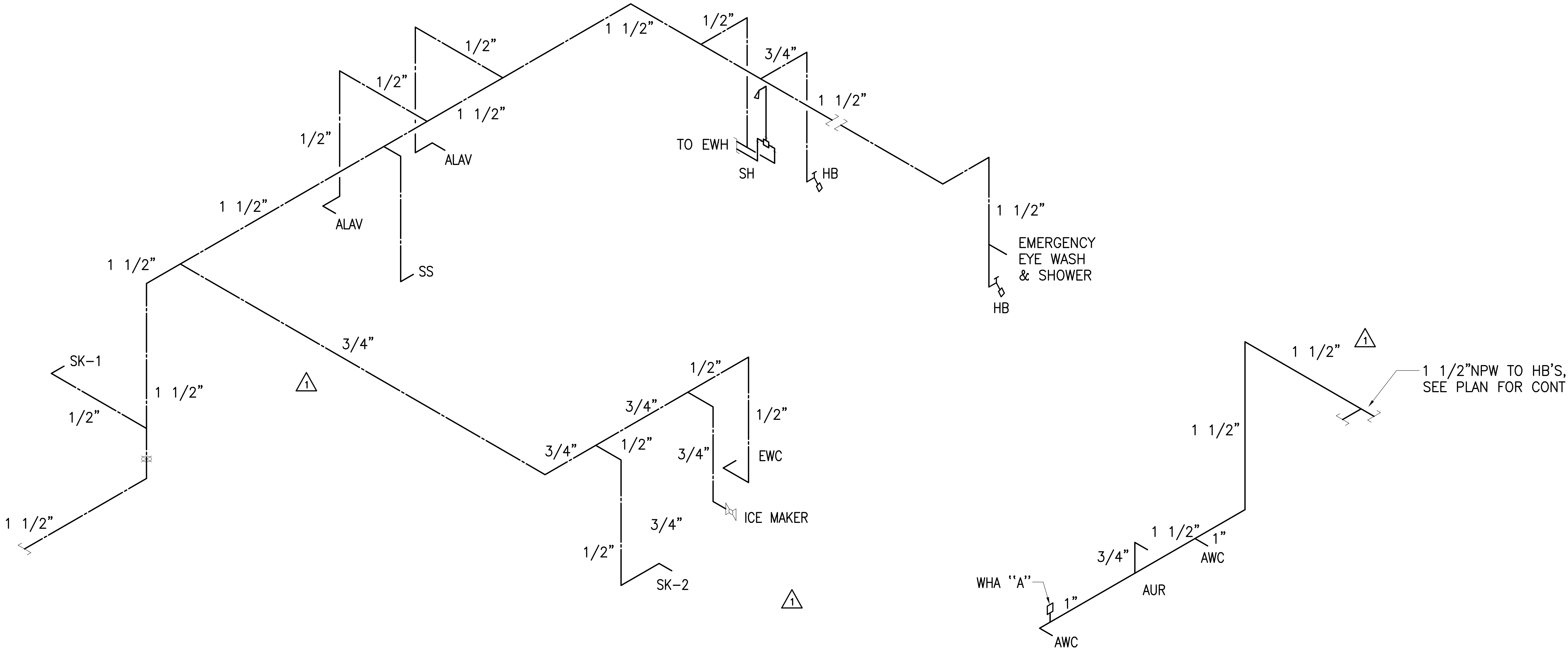
SIGNATURE EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

MA3.2

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	ADD. 108	146



SHOP BUILDING WATER PIPING

SHOP BUILDING NON-POTABLE WATER PIPING

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

PLUMBING DIAGRAMS
SCALE: NONE

06-07-18	1 REVISED WATER & NPW DIAGRAM
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DIAGRAMS MAUNA KEA MAINTENANCE BASEYARD DANIEL K. INOUE HIGHWAY Project No. 200A-01-10 Scale: As Noted Date: April 2018	
SHEET No. MA3.3 OF 19 SHEETS	

KEITH M. CHAN

LICENSED PROFESSIONAL ENGINEER

No. 5784-M

HAWAII U.S.A.



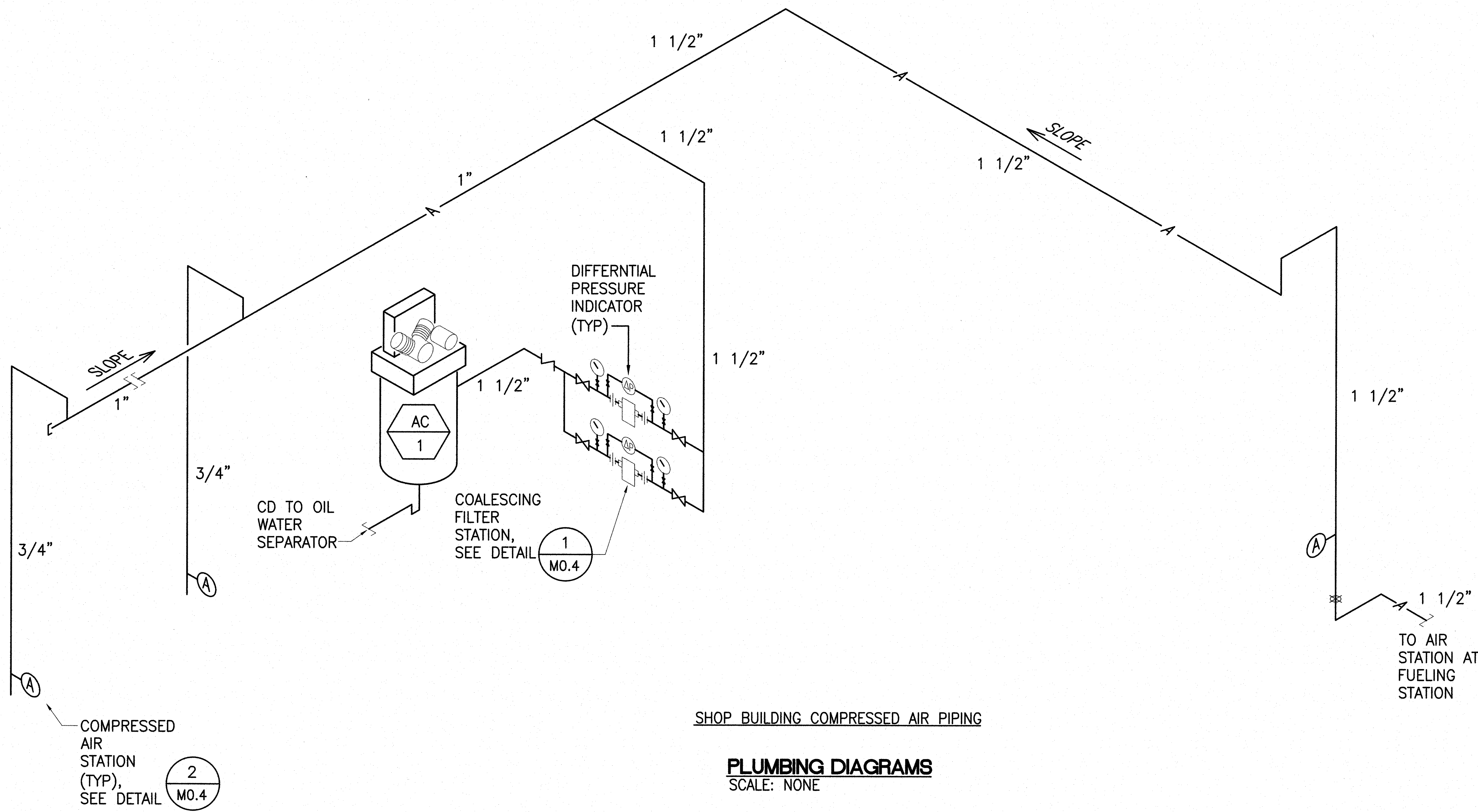
04-30-20

SIGNATURE EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

MA3.3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	109	146



SHOP BUILDING COMPRESSED AIR PIPING

PLUMBING DIAGRAMS
SCALE: NONE

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

KEITH M. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 5784-M
HAWAII U.S.A.

Keith M. Chan
SIGNATURE
EXP. DATE OF THE LICENSE 04-30-20

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

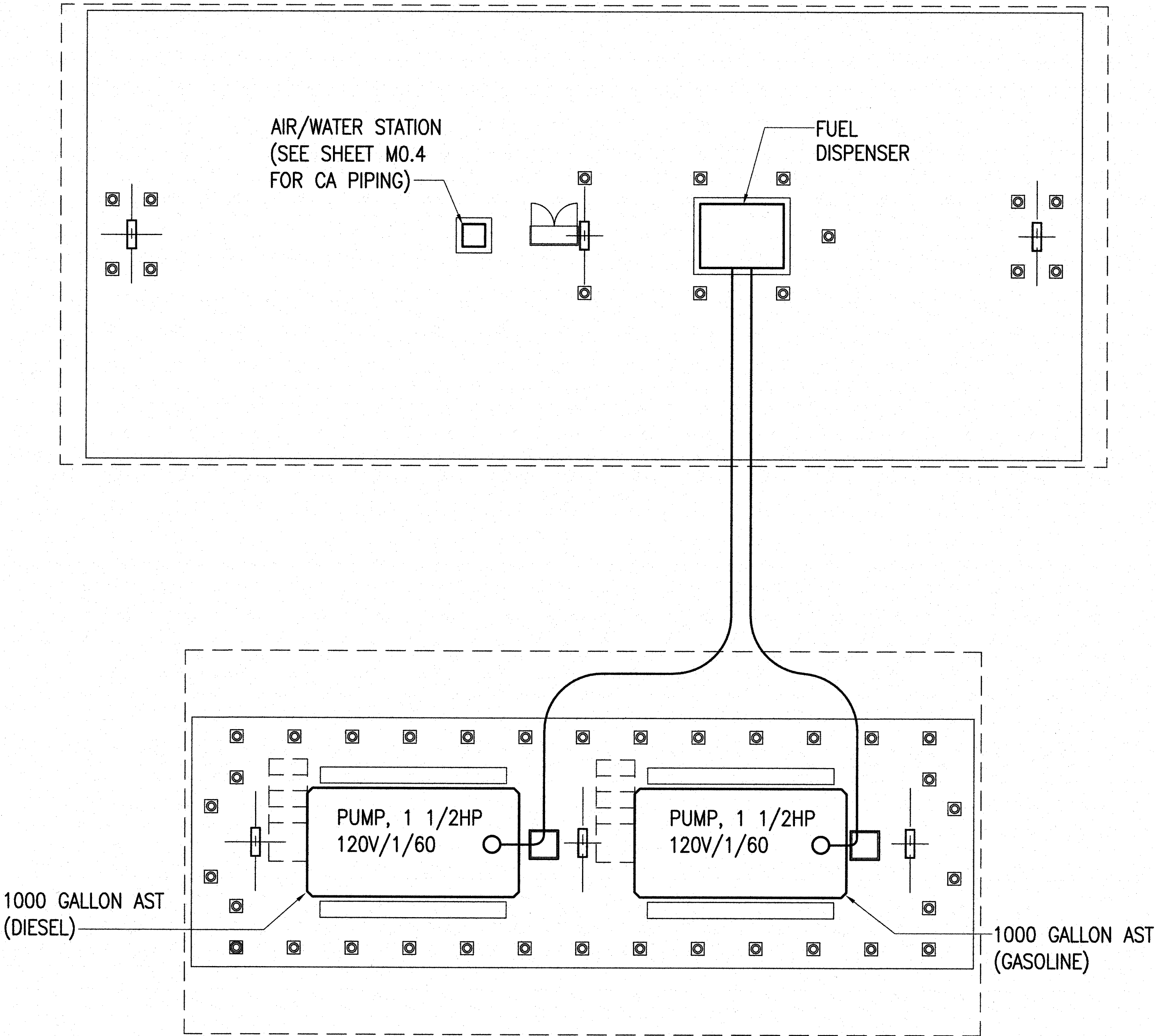
DIAGRAMS
MAUNA KEA MAINTENANCE BASEYARD
DANIEL K. INOUE HIGHWAY
Project No. 200A-01-10

Scale: As Noted Date: April 2018

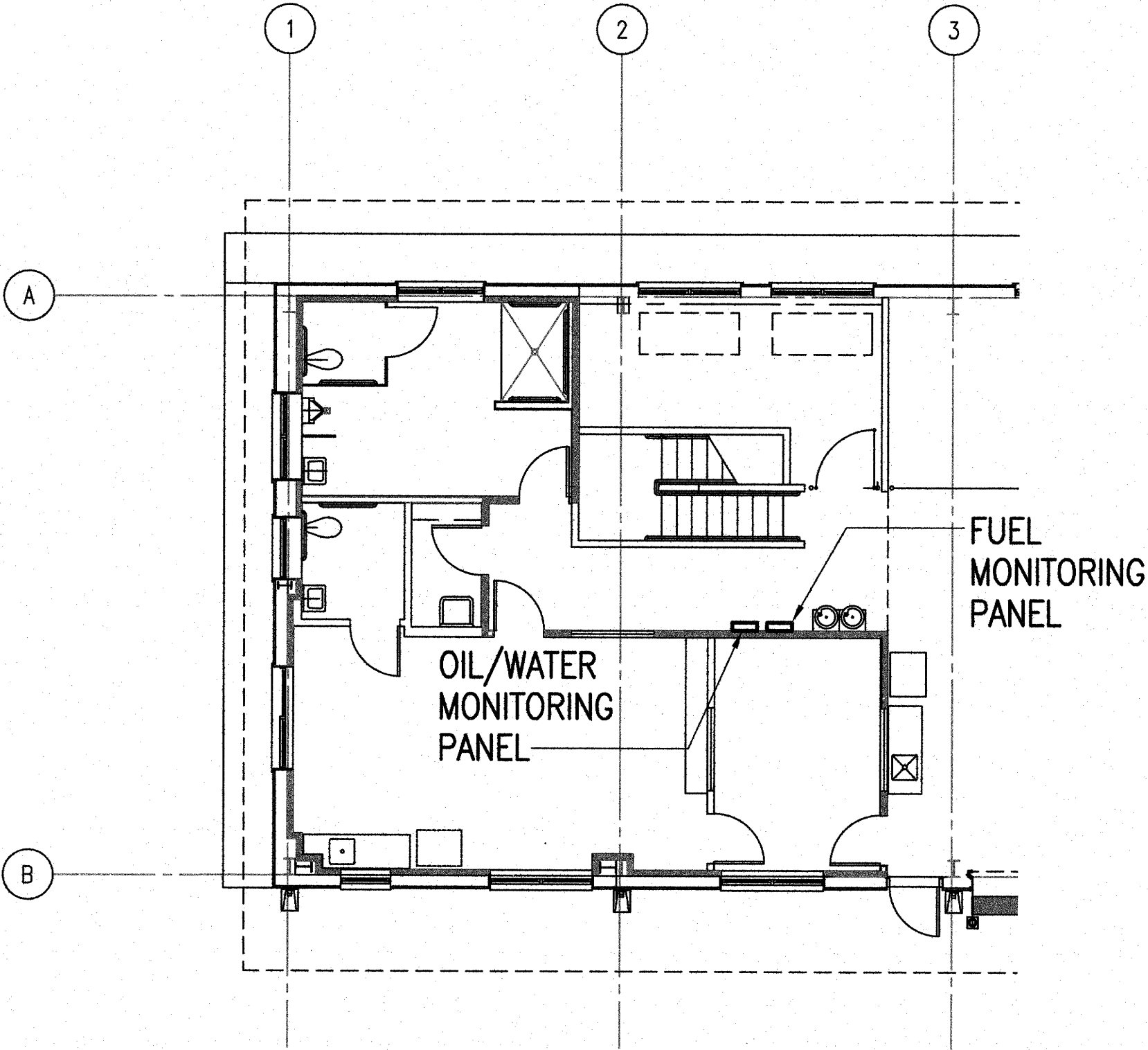
SHEET No. MA3.4 OF 19 SHEETS

MA3.4

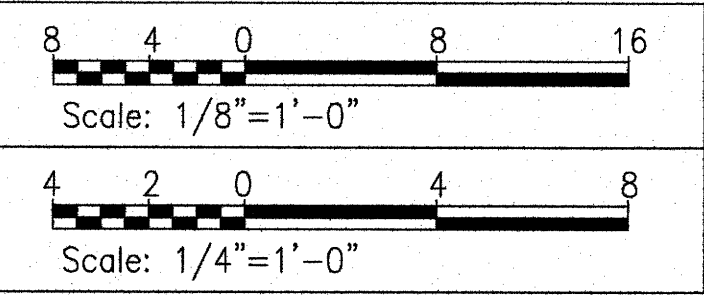
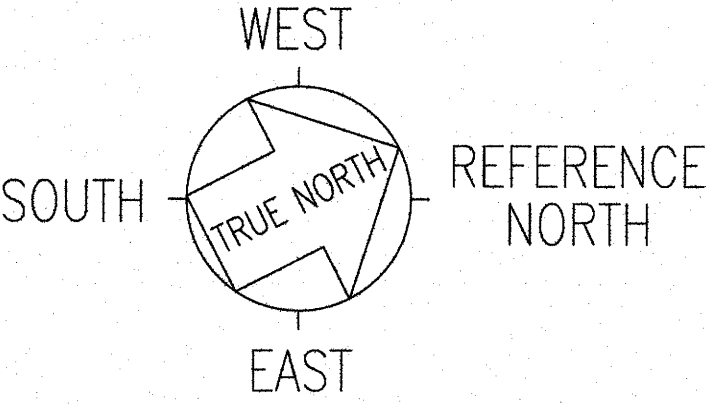
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	110	146



FUELING STATION
 SCALE: 1/4" = 1'-0"



PARTIAL SHOP BLDG PLAN
 SCALE: 1/8" = 1'-0"



SIGNATURE: *Keith M. Chan*
 EXP. DATE OF THE LICENSE: 04-30-20

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

FUELING STATION
MAUNA KEA MAINTENANCE BASEYARD
DANIEL K. INOUE HIGHWAY
 Project No. 200A-01-10

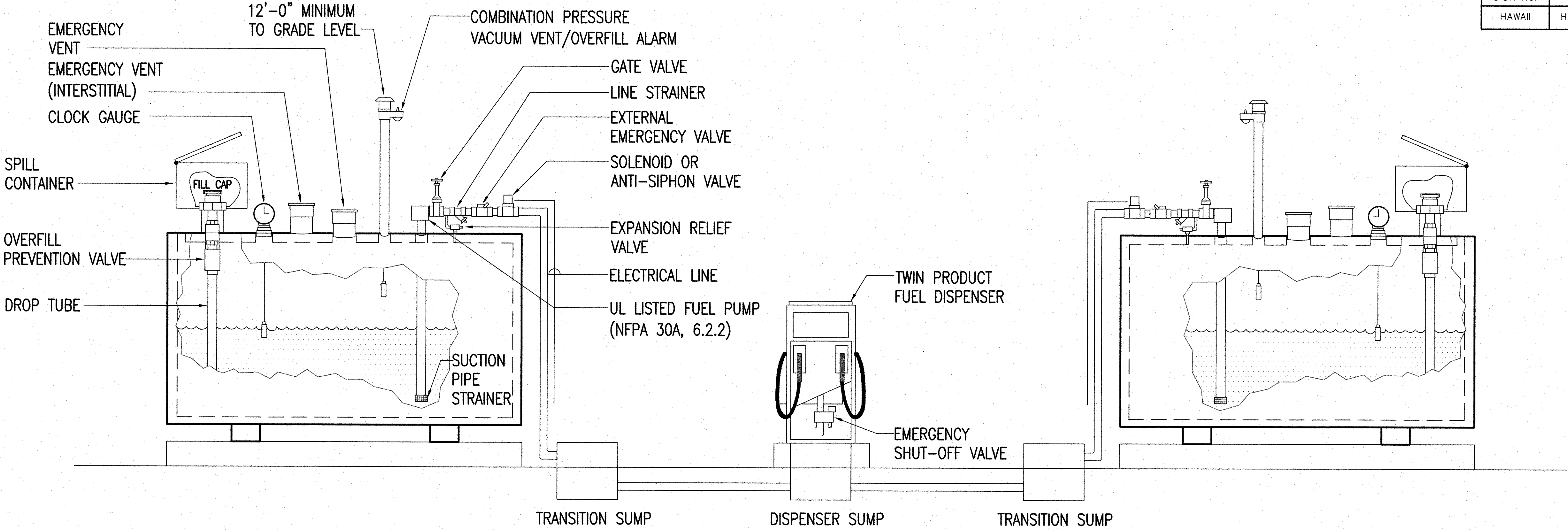
Scale: As Noted Date: April 2018

SHEET No. MB1.1 OF 19 SHEETS

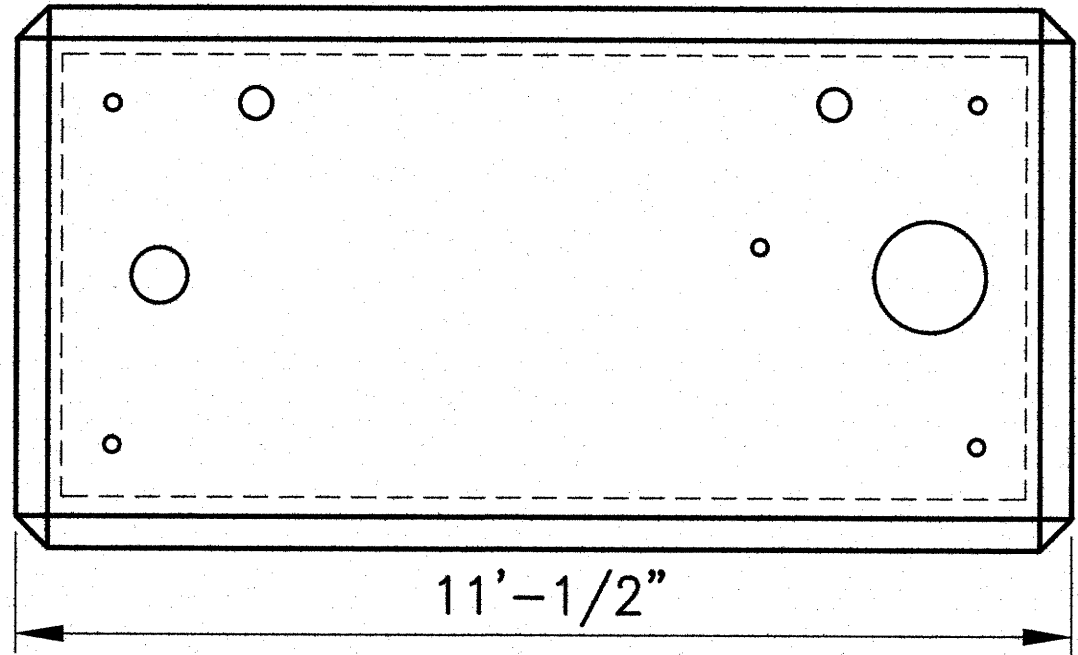
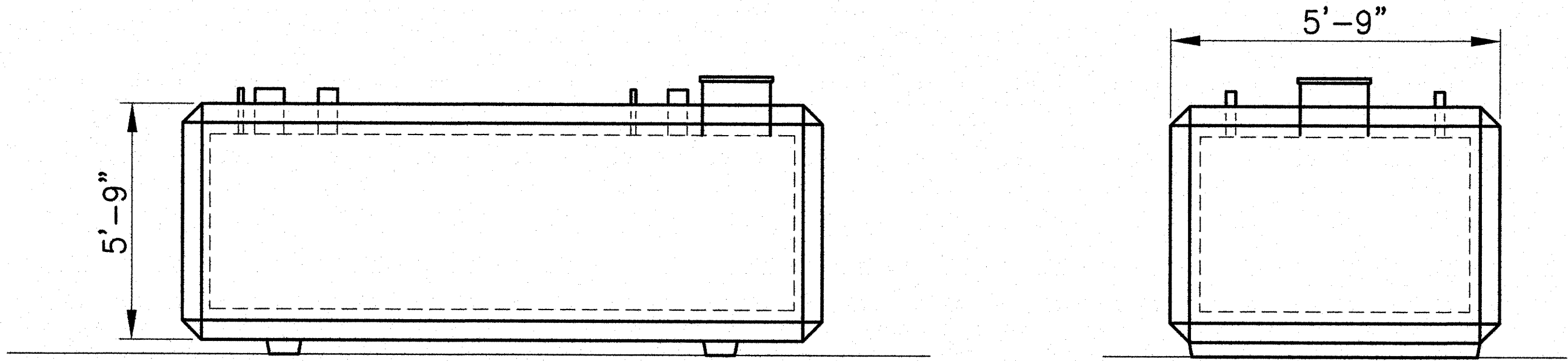
MB1.1

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

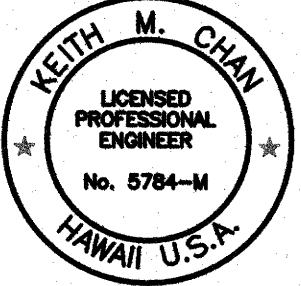
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	111	146



1 FUELING SCHEMATIC
SCALE: NONE



2 ABOVE GROUND FUEL TANK DETAIL (1000 GALLON)
SCALE: NONE

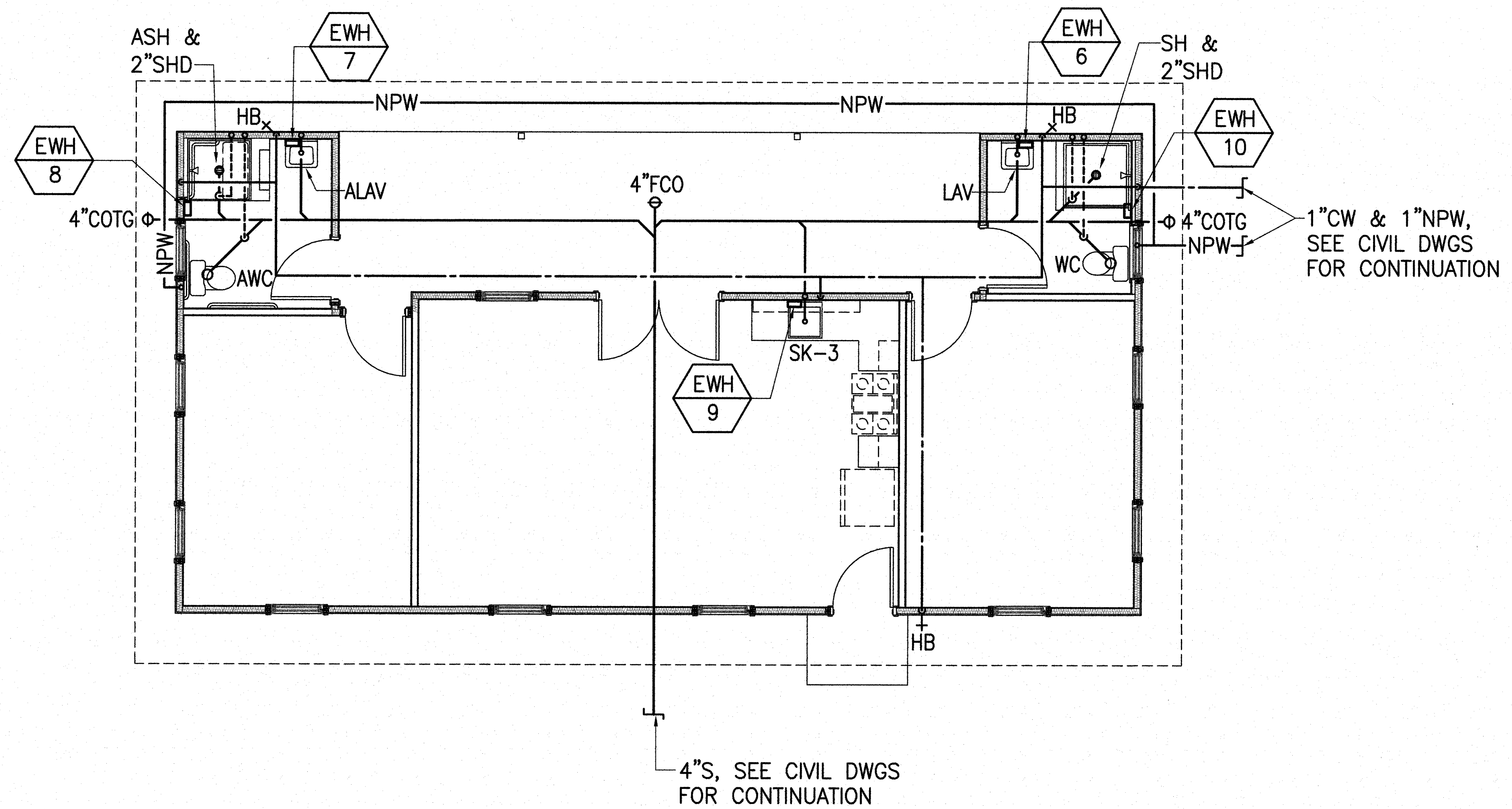


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
FUELING DETAILS
MAUNA KEA MAINTENANCE
BASEYARD
DANIEL K. INOUE HIGHWAY
Project No. 200A-01-10

Scale: As Noted Date: April 2018
 SHEET No. MB2.1 OF 19 SHEETS

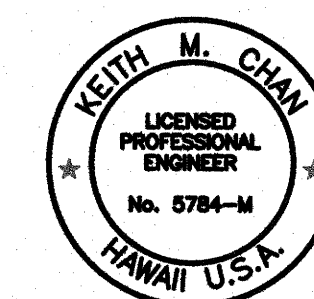
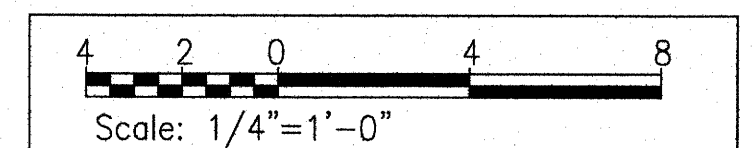
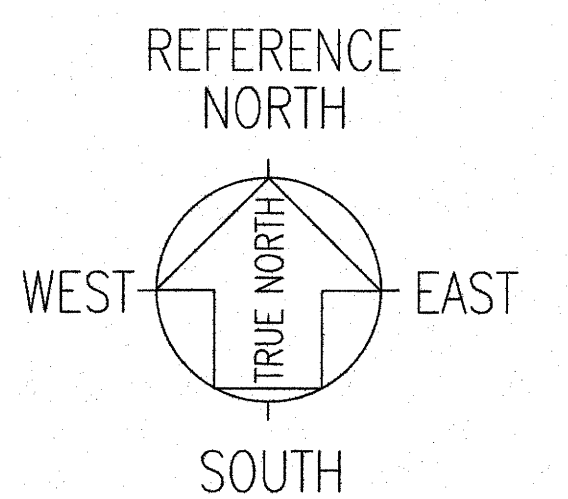
MB2.1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	200A-01-10	2018	112	146



DNLR CABIN PLUMBING
SCALE: 1/4" = 1'-0"

ADDITIVE ALTERNATE NO. 5
(ENTIRE BUILDING)



Keith M. Ch...
04-30-20
SIGNATURE EXP. DATE OF THE LICENSE
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DLNR CABIN PLUMBING

MAUNA KEA MAINTENANCE
BASEYARD
DANIEL K. INOUE HIGHWAY

Project No. 200A-01-10

Scale: As Noted Date: April 2018

SHEET No. ME1.1 OF 19 SHEETS

ME1.1

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

