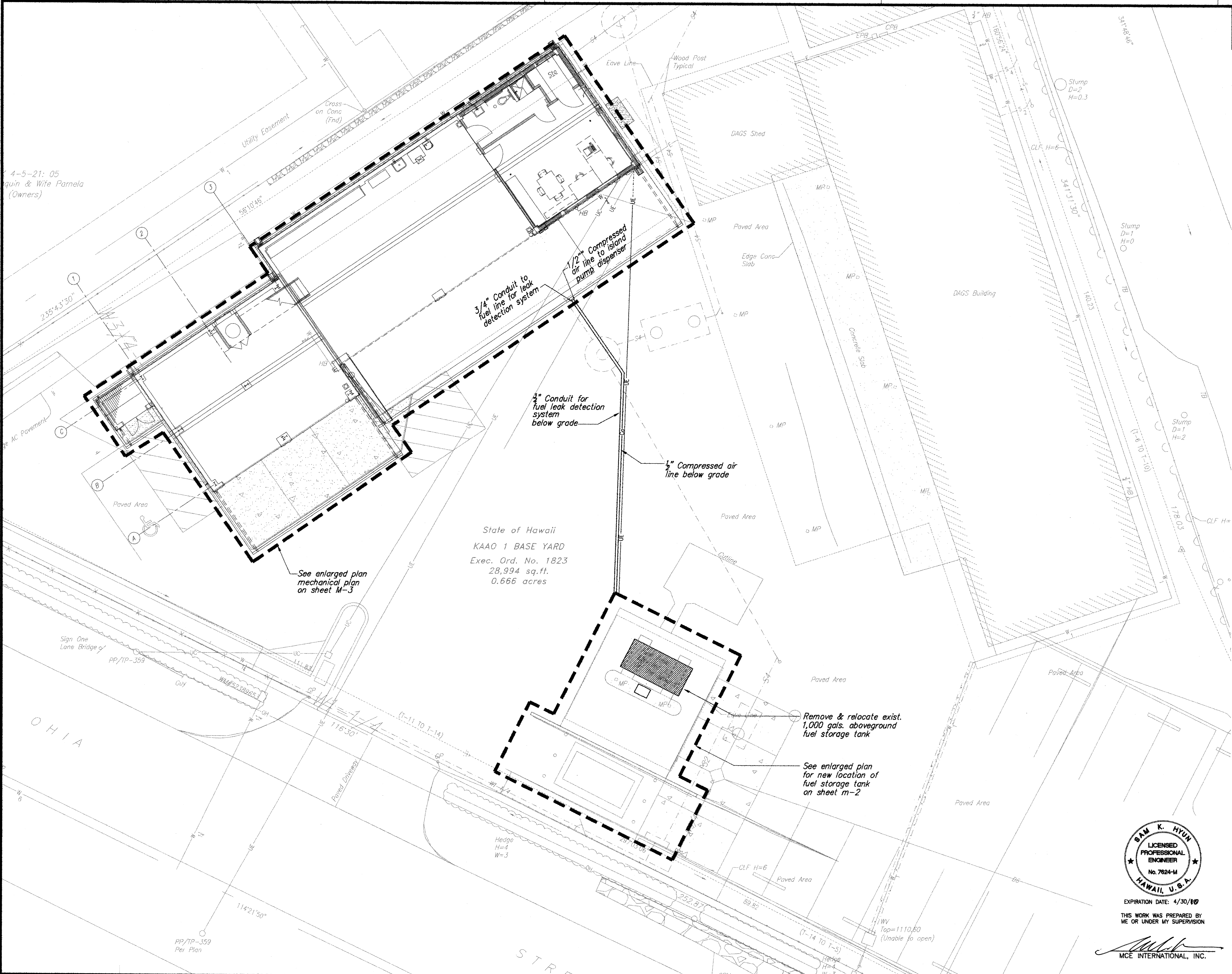


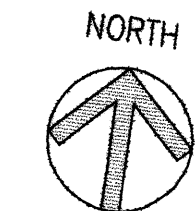
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-H-05-06	2008	49	64

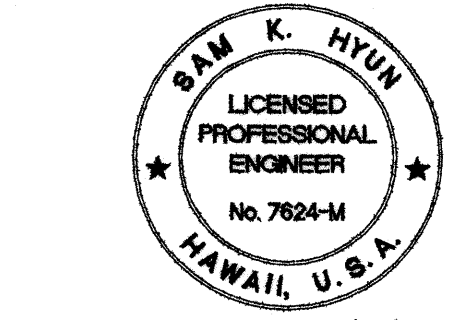
Mechanical General Notes

1. Conform to all laws and regulations of state of Hawaii and county of Hawaii and NFPA standards. Obtain and pay for all permits, licences for all connection and testing cost for the work.
2. Investigate the contract documents and make proper provisions to avoid interferences of construction delays. Determine the exact route of each pipe and ductwork. Make offsets and changes in direction required to accommodate the structure
3. Design drawings are diagrammatic and indicate general intent of design only. Close coordination of all work is critical. Minor rearrangement of pipes and ductwork is part of this work.
4. Contractor shall provide necessary offsets and fittings for the piping risers thru the floor and roof to avoid beam. Verify structural drawings.
5. Contractor shall layout all mechanical equipments, piping and ductwork.
6. Should there be any questions or discrepancies in the design, the contractor shall bring it the engineer's attention for resolution.



SURVEY PLATTED BY	DATE
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DESIGNED BY	5/08
QUANTITIES BY	5/08
CHECKED BY	5/08
ORIGINAL PLAN	
NOTE BOOK	
No.	

NORTH

Site Plan – Mechanical
 Not To Scale



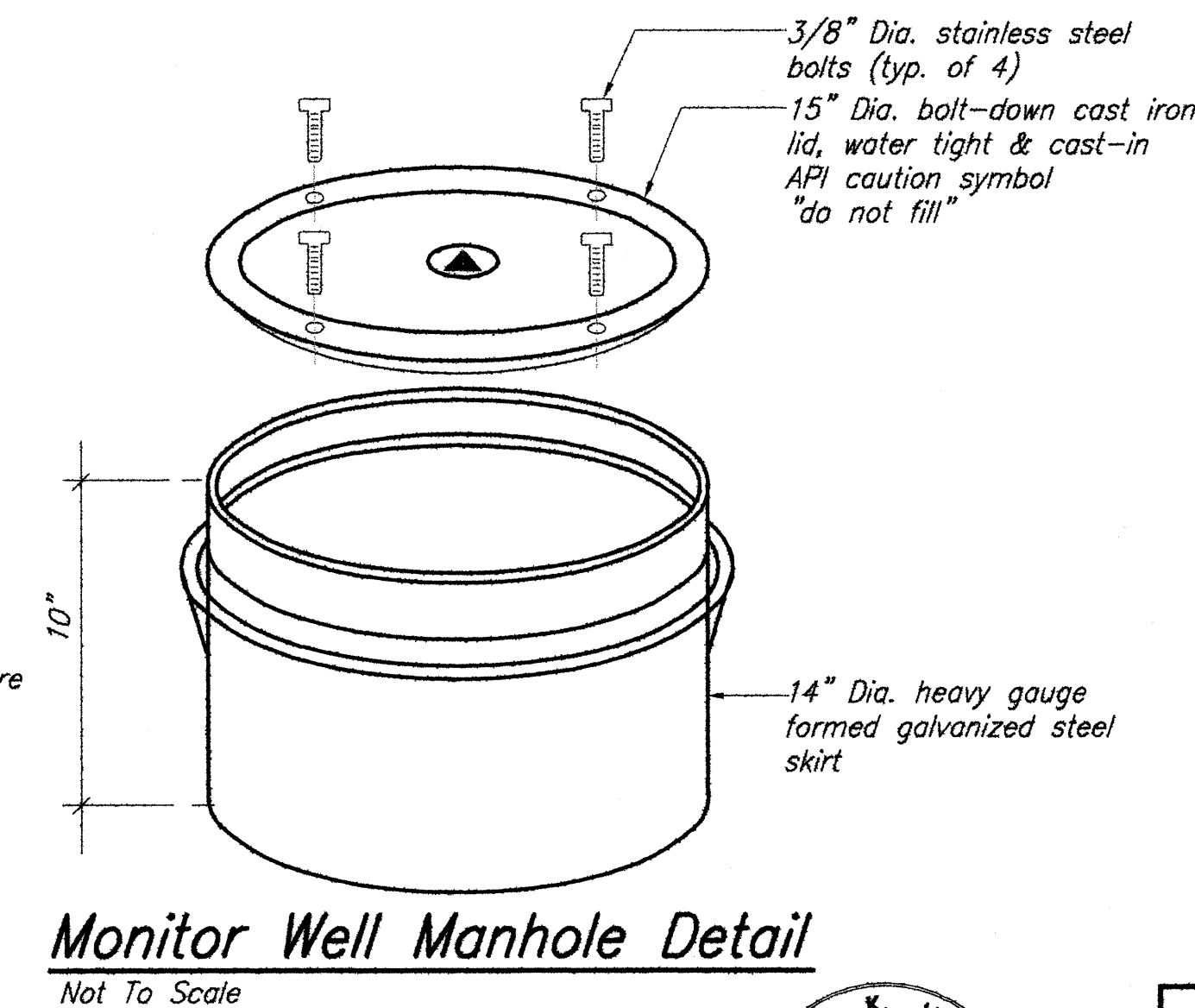
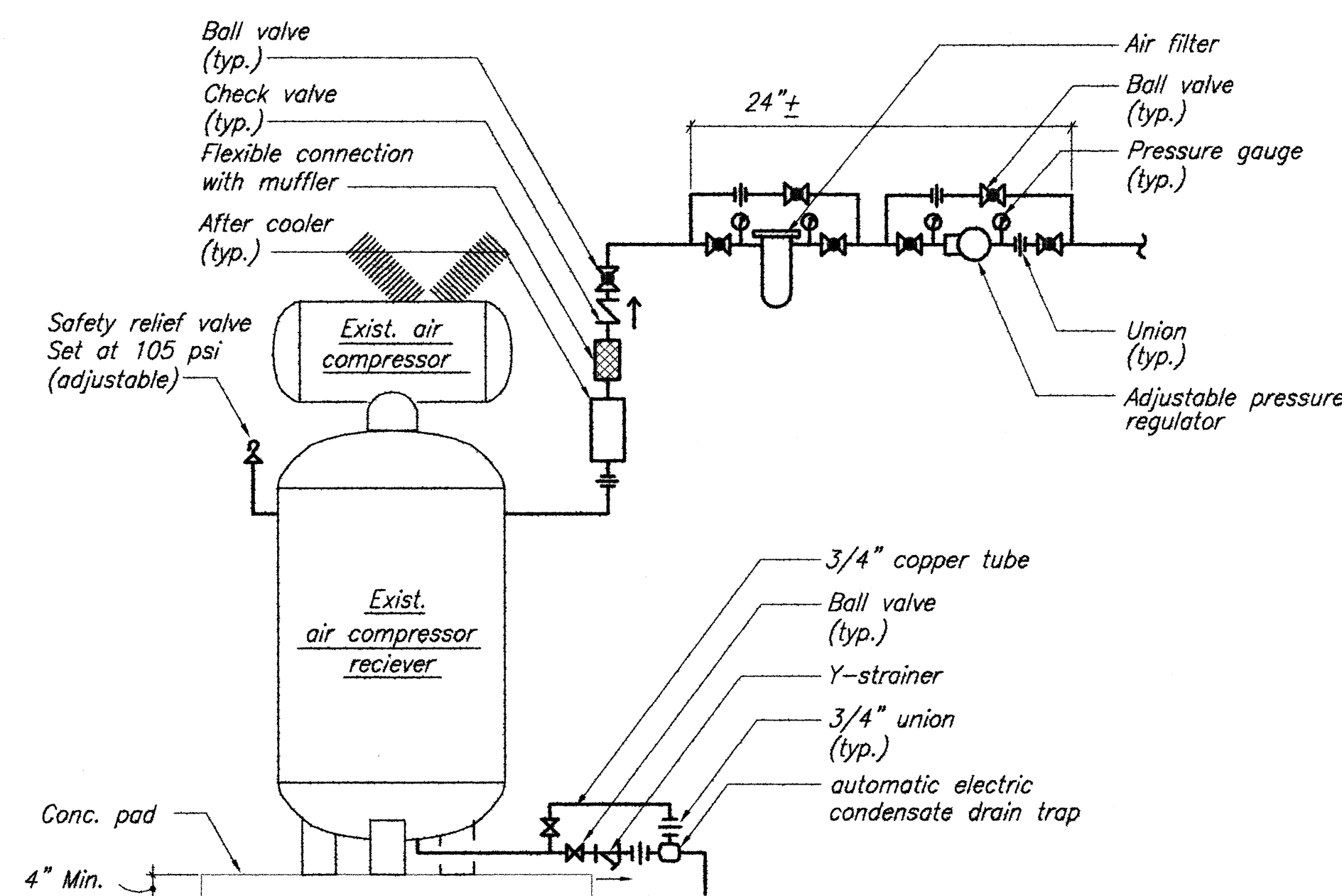
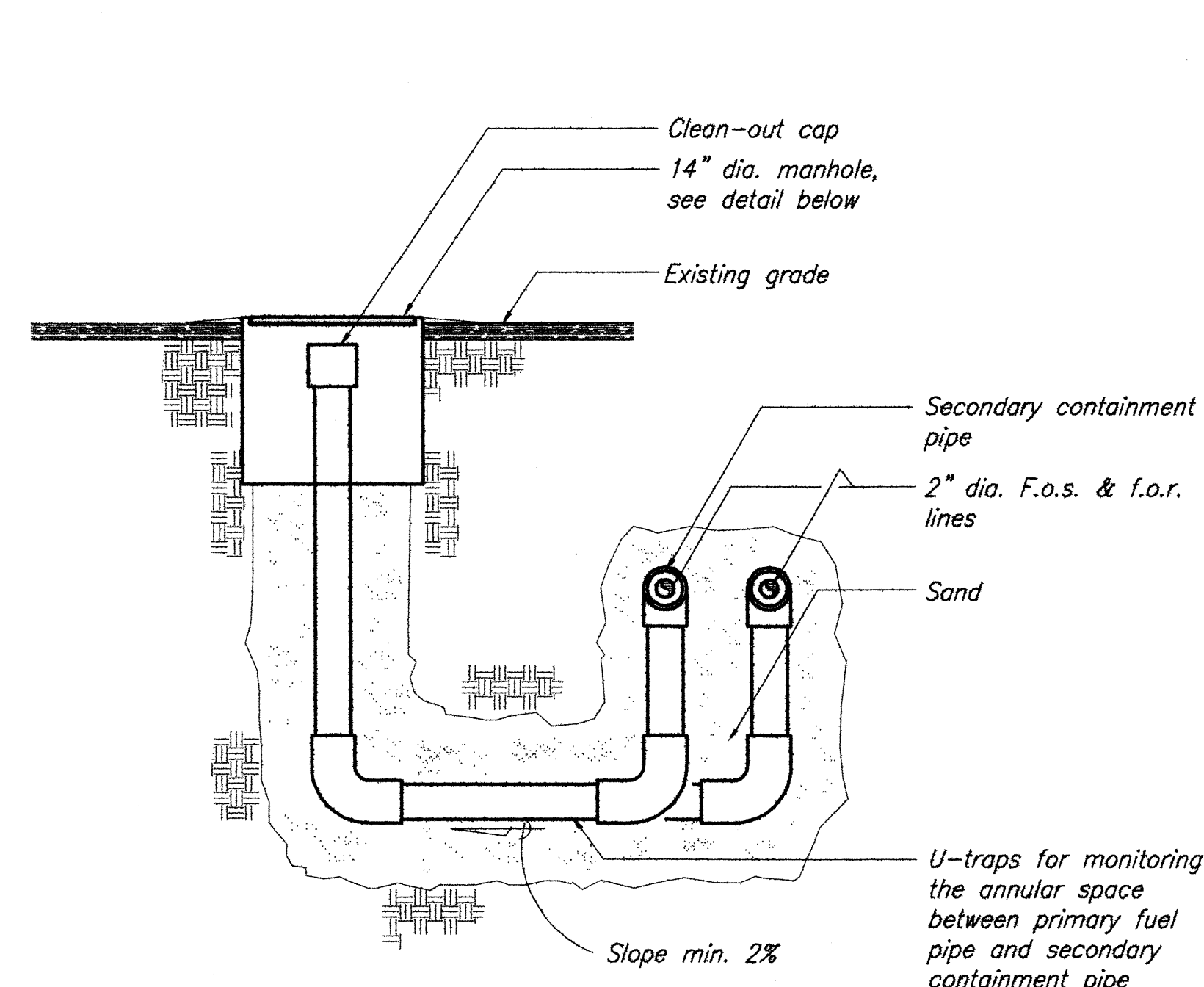
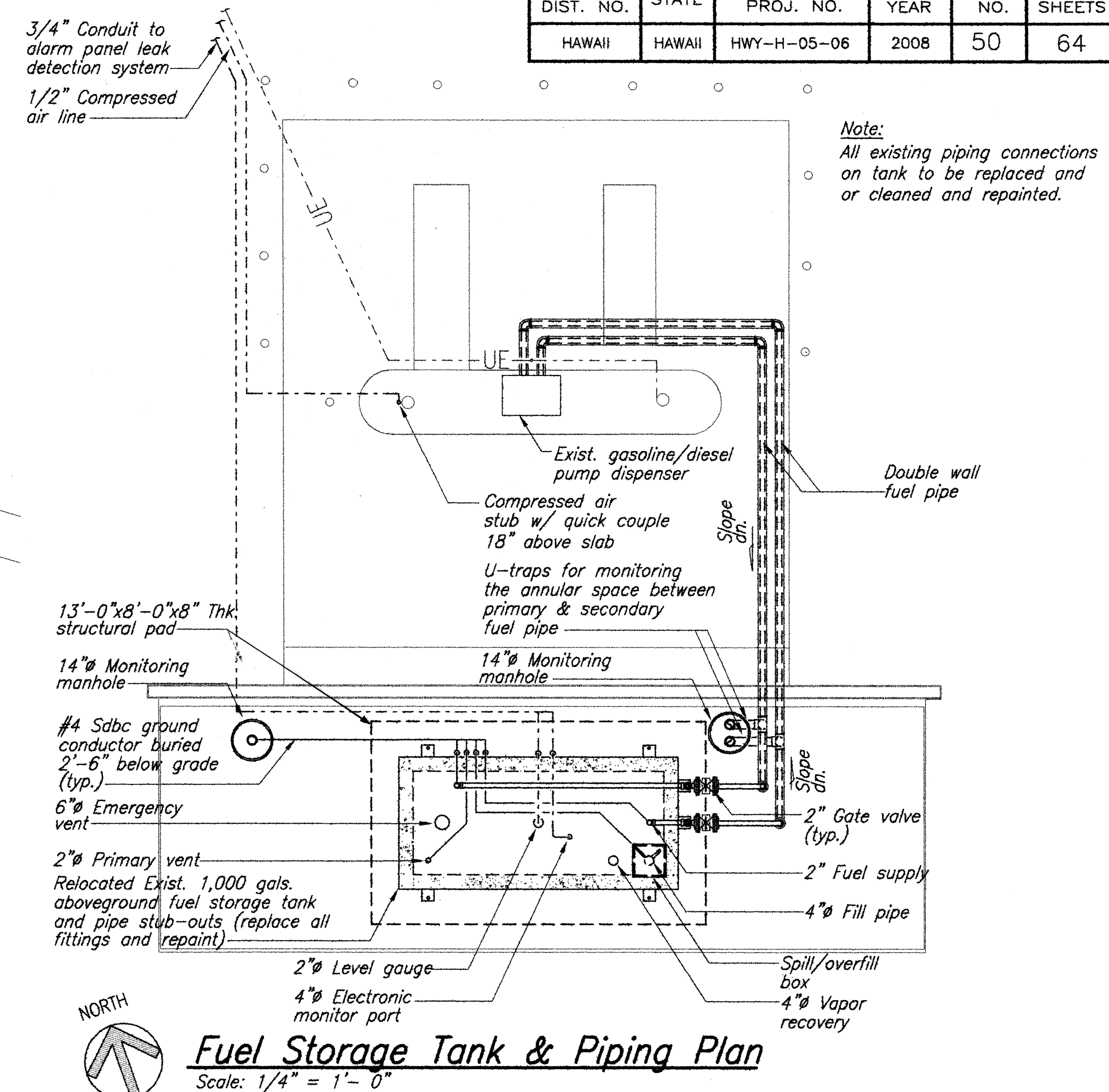
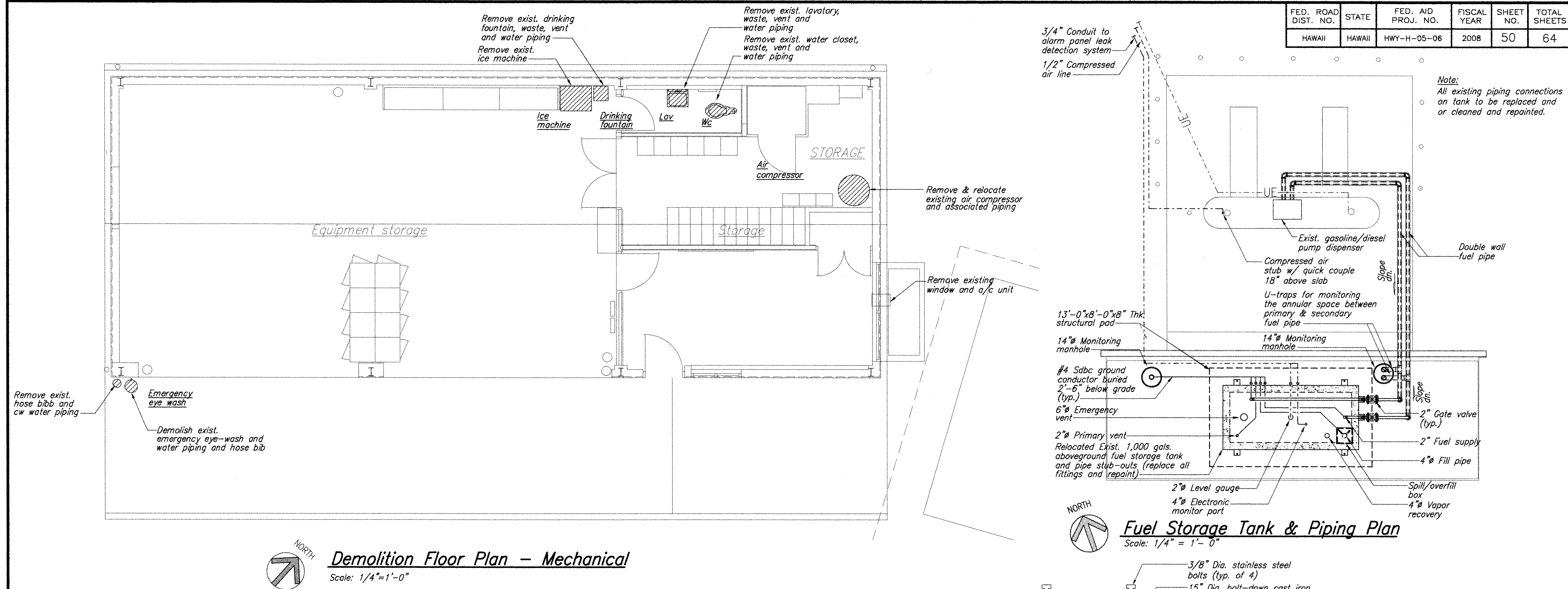
EXPIRATION DATE: 4/30/10
 THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION

Sam K. Hyun
 MCE INTERNATIONAL, INC.

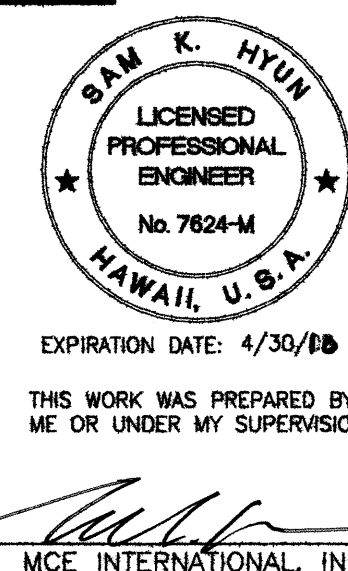
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SITE PLAN – MECHANICAL

HONOKAA BASEYARD IMPROVEMENTS
Project No. HWY-H-05-06
Scale: As Noted Date: MAY 2008
SHEET No. M-1 OF M-5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-H-05-06	2008	50	64

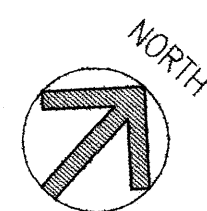
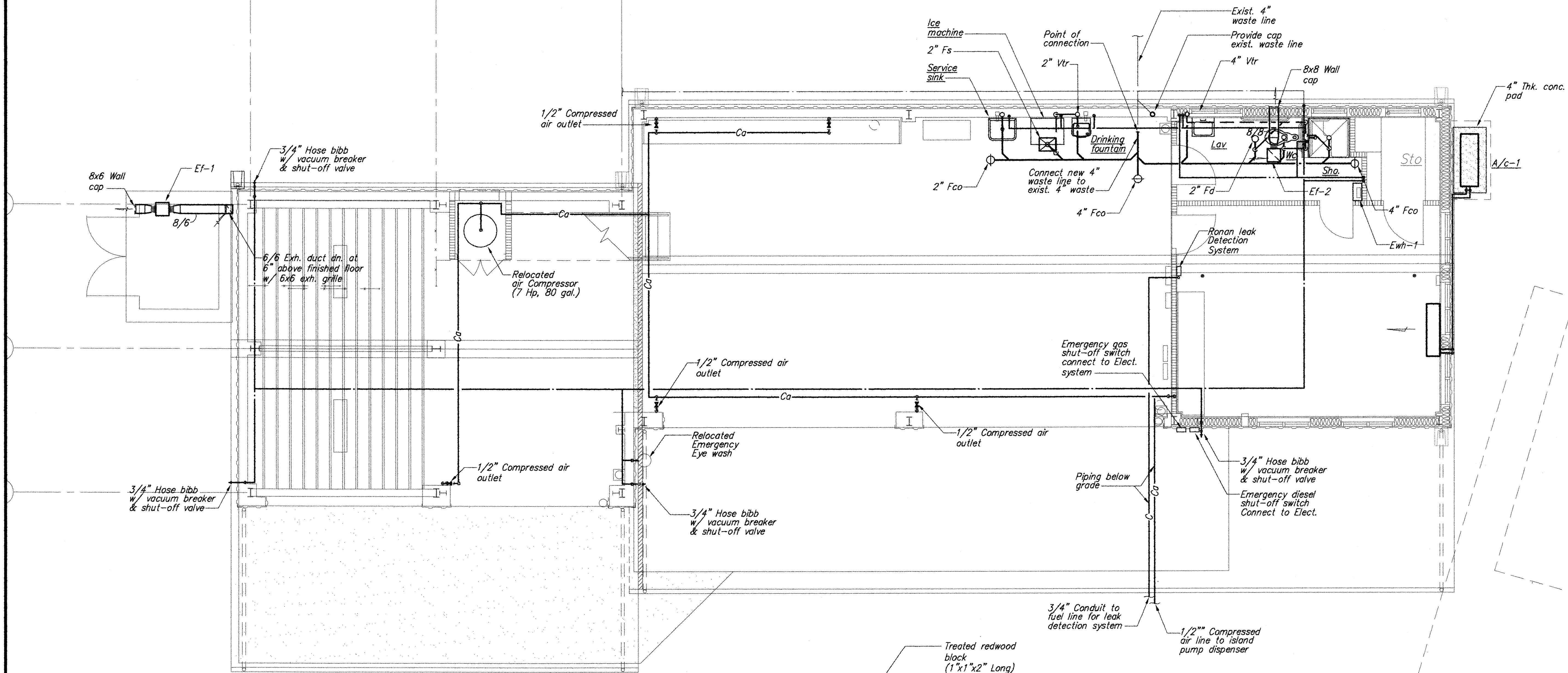


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CHECKED BY	5/08
DESIGNED BY	5/08
QUANTITIES BY	5/08
CHECKED BY	5/08
ORIGINAL PLAN	
NOTE BOOK	
No.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**DEMOLITION FLR PLN. - MECH.,
FUEL STO. PIPING PLN. & DETS.**
HONOKAA BASEYARD IMPROVEMENTS
Project No. HWY-H-05-06
Scale: As Noted Date: MAY 2008
SHEET No. M-2 OF M-5 SHEETS

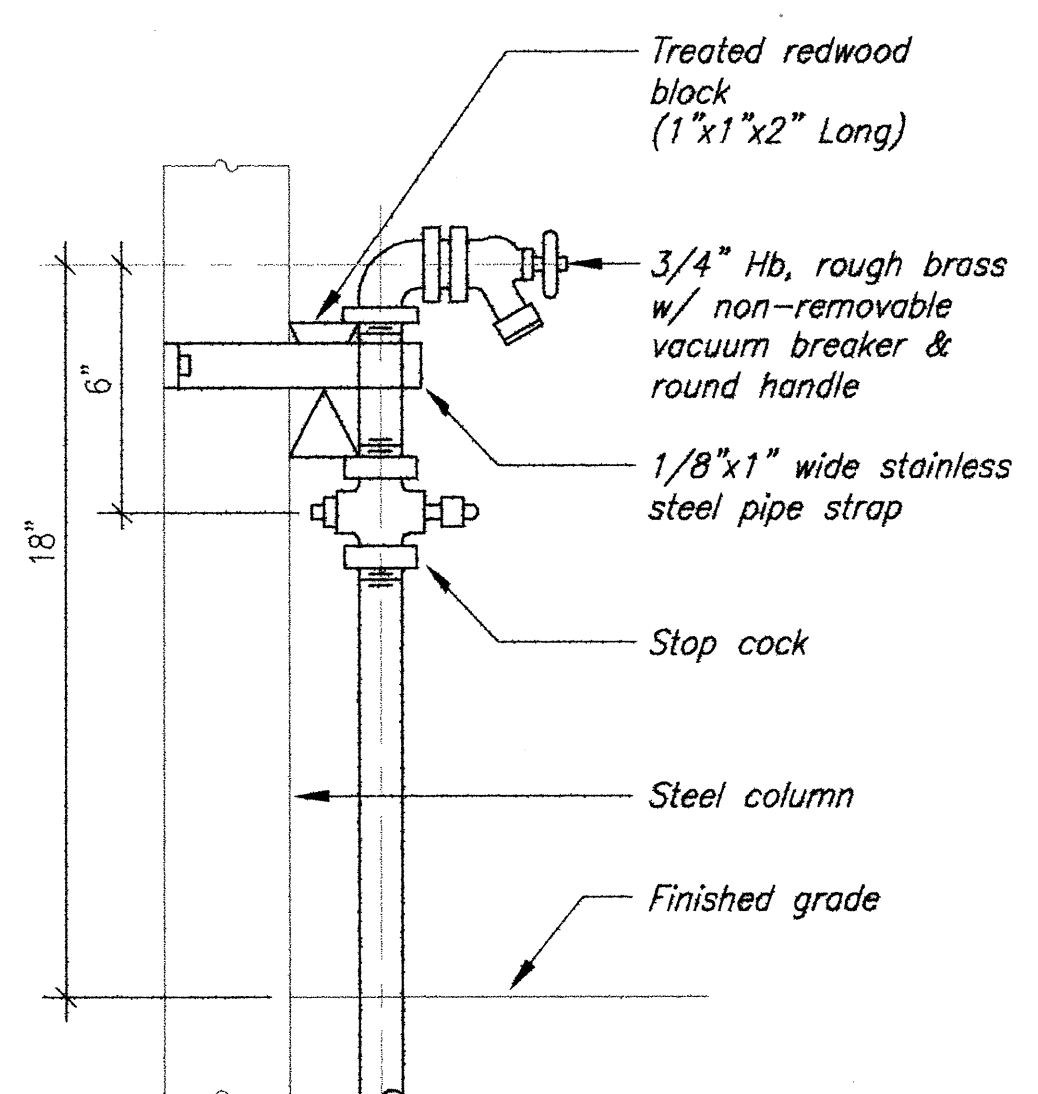
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HAWAII	HAWAII	HWY-H-05-06	2008	51	64



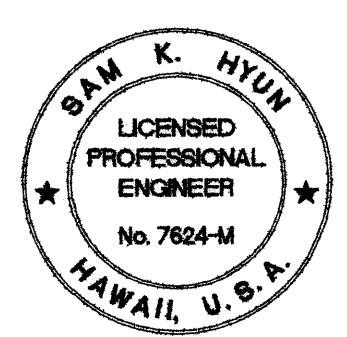
New Floor Plan - Mechanical
Scale: 1/4"=1'-0"

Note:
1. Provide leak detector sensor at existing fuel dispenser sump. Route sensor wire back to leak detector monitor at building. see sheet m-3 for location.

Scope of Work for Leak Detection System:
Contractor to provide detection sump at existing fuel tank for existing double wall fuel line for both gasoline and diesel lines. Route sensor wire back to leak detector monitor at building. at building



Hose Bibb Detail - Interior
Not To Scale

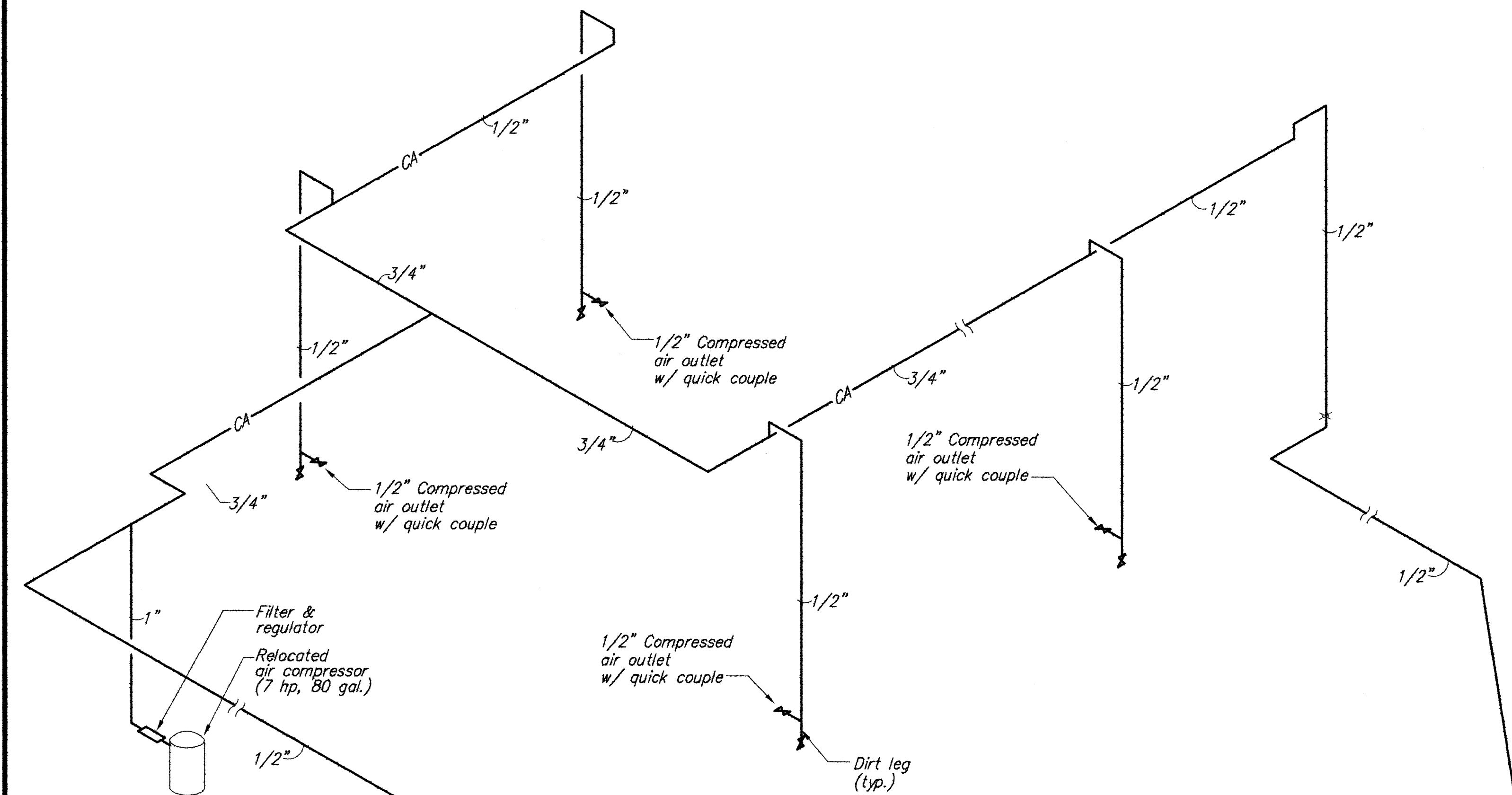


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MCE INTERNATIONAL, INC.

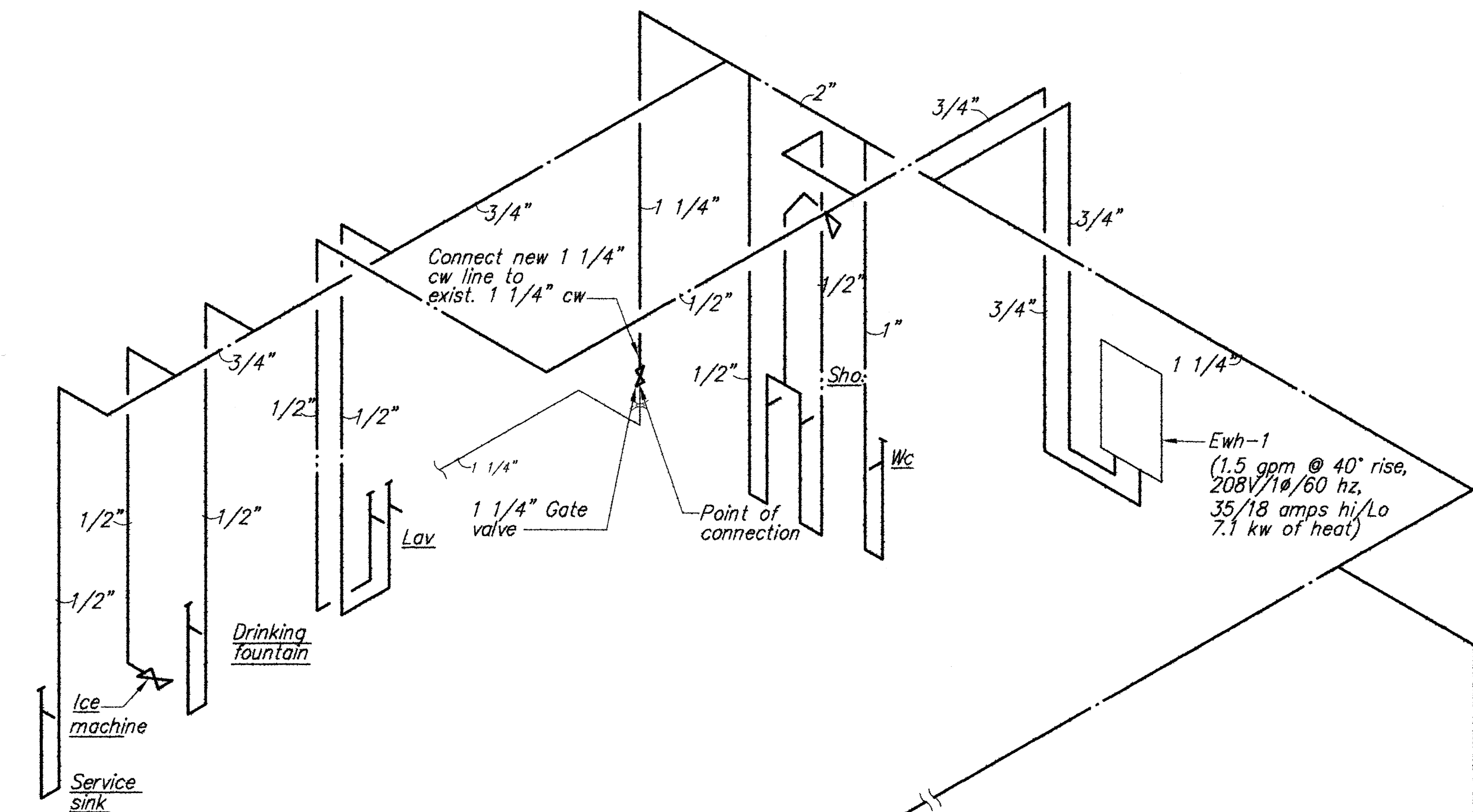
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**NEW FLOOR PLAN -
MECHANICAL & DETAILS**
HONOKAA BASEYARD IMPROVEMENTS
Project No. HWY-H-05-06
Scale: As Noted Date: MAY 2008
SHEET No. M-3 OF M-5 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	5/08
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NOTED BY	5/08
QUANTITIES BY	5/08
NO.	5/08

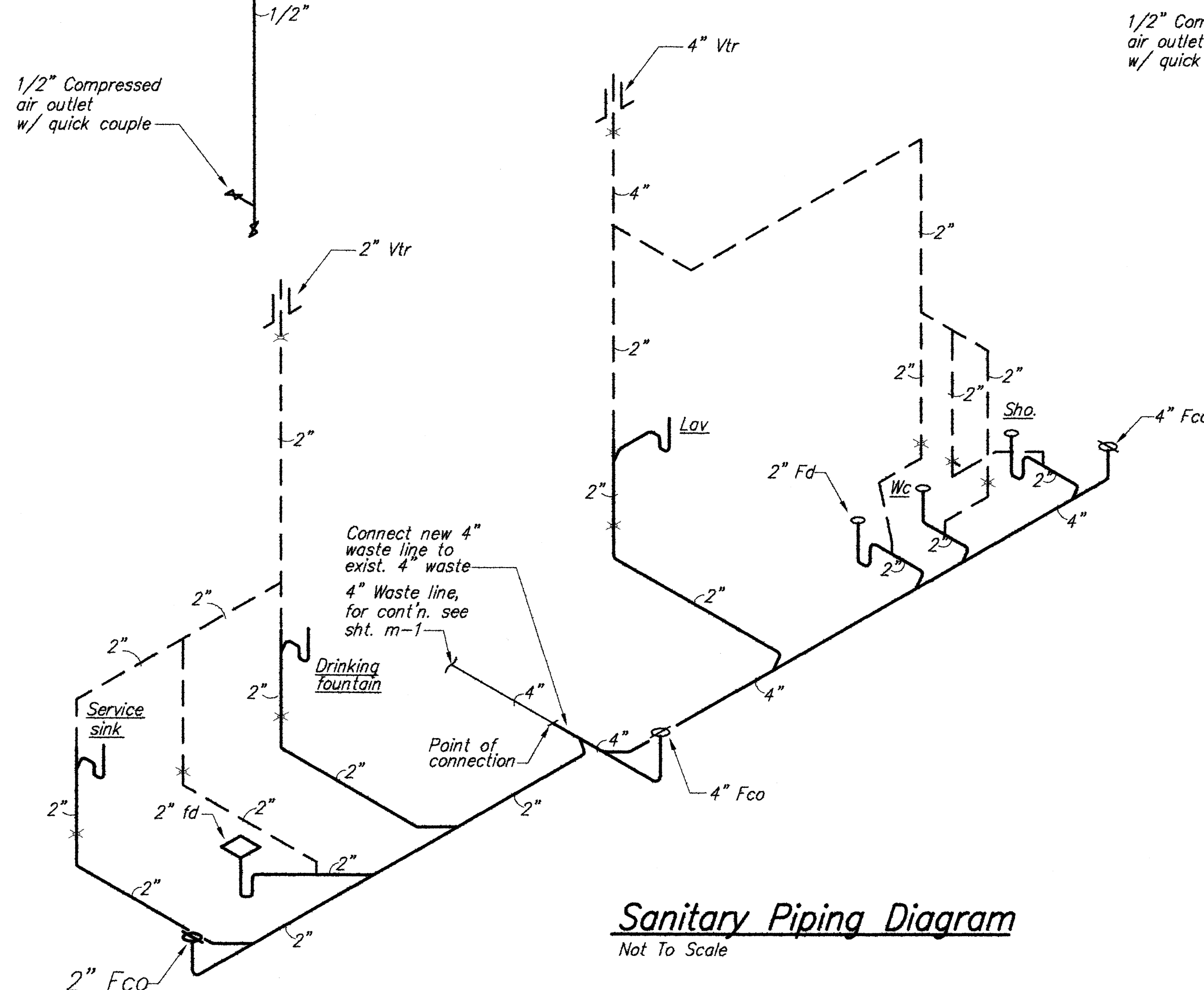
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HAWAII	HAWAII	HWY-H-05-06	2008	52	64



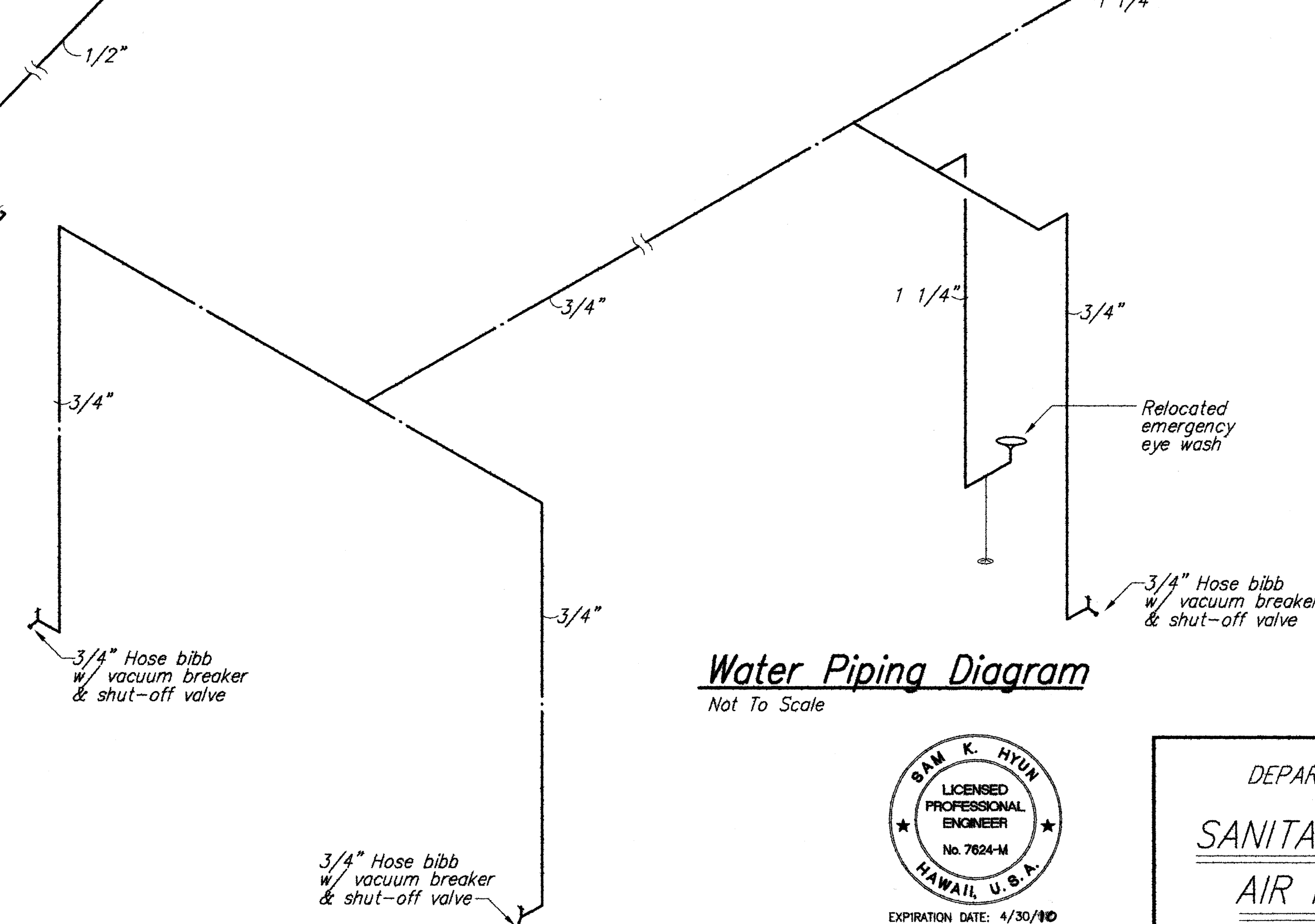
Compressed Air Piping Diagram
Not To Scale



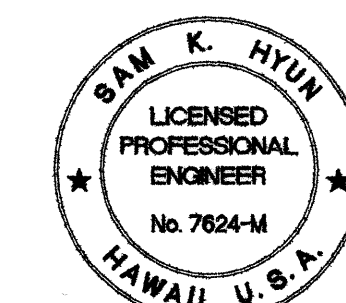
Water Piping Diagram
Not To Scale



Sanitary Piping Diagram
Not To Scale



ORIGINAL PLAN	DATE
NO.	



EXPIRATION DATE: 4/30/10

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Signature
MCE INTERNATIONAL, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SANITARY, WATER & COMP.

AIR PIPING DIAGRAMS

HONOKAA BASEYARD IMPROVEMENTS

Project No. HWY-H-05-06

Scale: As Noted Date: MAY 2008

SHEET No. M-4 OF M-5 SHEETS

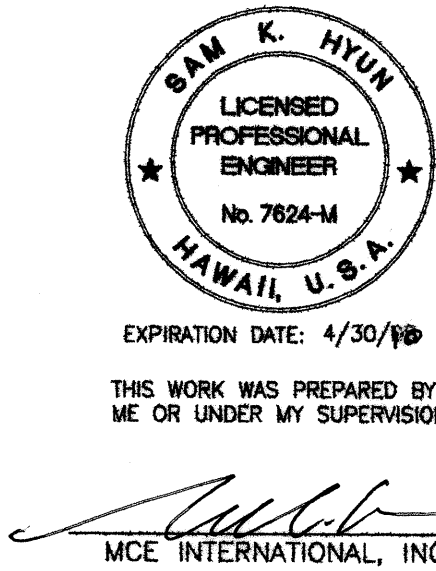
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-H-05-06	2008	53	64

Exhaust Fan Equipment Schedule												
Unit no.	Area served	Type	Cfm	Total sp (inch-wg)	Min. wheel dia.	Fan rpm	Electrical				Max. sone	Remarks
							Watts	V	Ph	Hz		
Ef-1	Chemical storage	In-line	160	.25	-	1300	132	120	1	60	3.1	Cook GN-164
Ef-2	Toilet	Ceiling	240	.125	-	1500	216	120	1	60	5.0	Cook GN-184

Split System Air Conditioning Equipment Schedule																							
Unit no.	Description	Total (btu/hr.)	Sensible (btu/hr.)	Minimum eer	Entering air conditions Db/wb (deg. F)	Ambient condensing temp. (deg. F)	Indoor unit				Electrical				Outdoor unit			Electrical				Make & model or approved equal	Remarks
							Supply air cfm	Outside air cfm	Ext. sp. (inch- wg)	Indoor fan amps	Max. dba	V	Ph	Hz	Outdoor fan amps	Comp. amps rla	Max. dba	Min. circuit amps	V	Ph	Hz.		
AC-1	Office A/C	24,000	19,000	10.3	80/67	95*	530	0	0	1	47	115	1	60	1	16	55	20	208/230	1	60	Mitsubishi PK24FL3 & PU24EK	

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QUANTITIES BY	5/08
CHECKED BY	5/08

ORIGINAL PLAN
NOTE BOOK
No.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EQUIPMENT SCHEDULES

HONOKAA BASEYARD IMPROVEMENTS
Project No. HWY-H-05-06
Scale: As Noted Date: MAY 2008

SHEET No. M-5 OF M-5 SHEETS