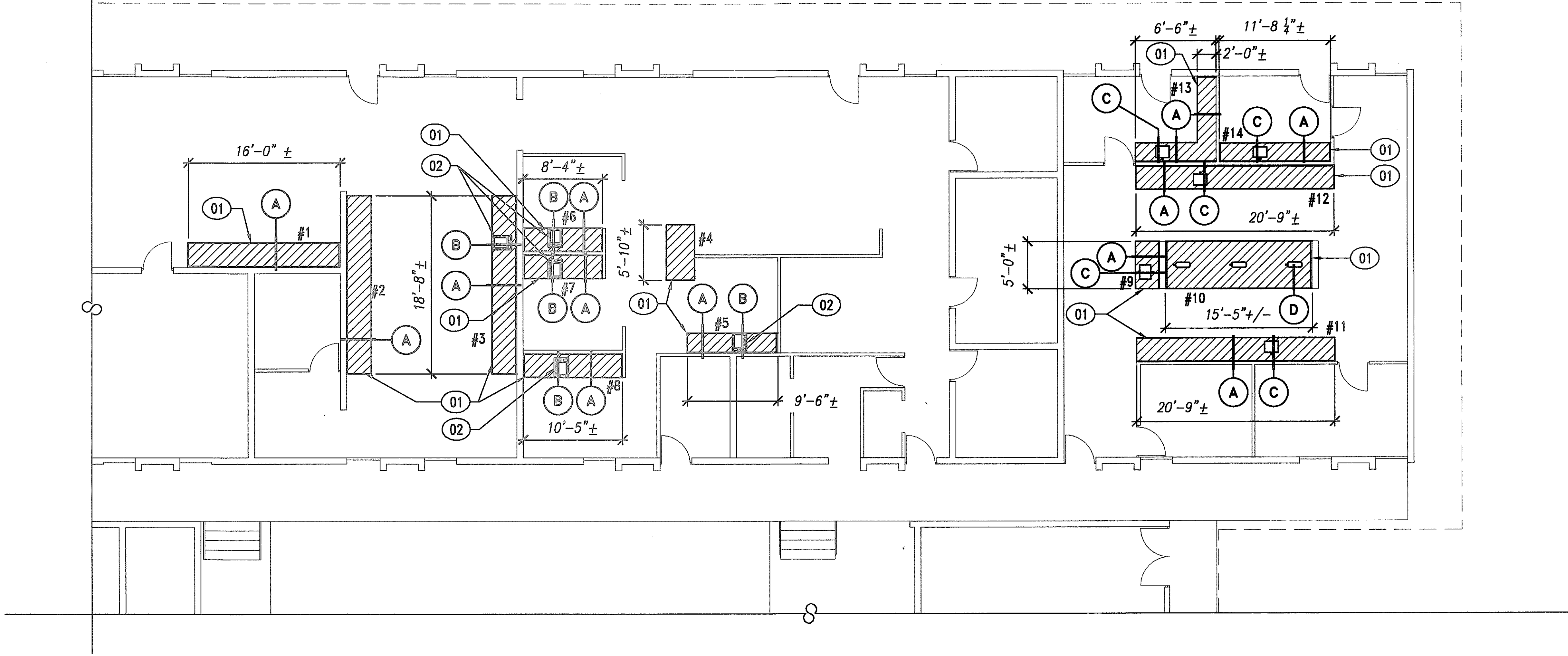
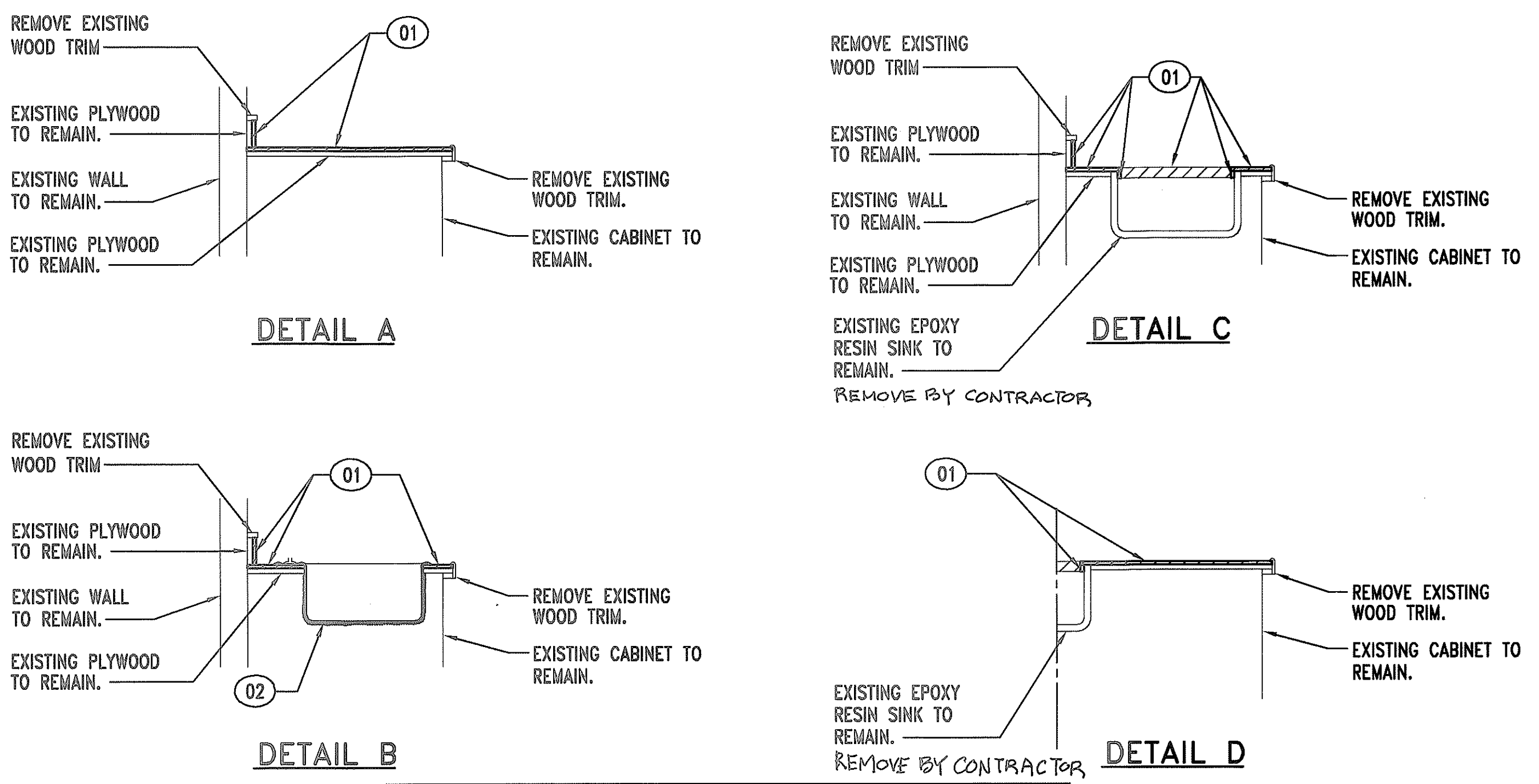


DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	3	22



- ASBESTOS REMOVAL NOTES:**
- NO EXCESSIVE USE OF WATER OR LIQUIDS TO REMOVE ASBESTOS-CONTAINING-MATERIALS WILL BE ALLOWED. THE CONTRACTOR SHALL REPAIR ANY DAMAGES AS A RESULT OF EXCESSIVE USE OF WATER OR LIQUIDS AT NO ADDITIONAL COST TO THE STATE.
 - BLEMISHES FROM TAPE ADHESIVE AND RESIDUAL SPRAY GLUE FOUND ON SURFACES SUCH AS CABINETS, VENT GRILLS, RECEPTACLES, ETC. AFTER ABATEMENT, SHALL BE CLEANED AND/OR REPAIRED BY THE CONTRACTOR AFTER ABATEMENT.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STATE.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY LINES AND STRUCTURES FROM DAMAGE DURING HIS ABATEMENT OPERATIONS. ANY DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE STATE. CONTRACTOR SHALL BE RESPONSIBLE FOR INTERIOR DAMAGES CAUSED BY HIS WORK.
 - THE ABATEMENT CONTRACTOR SHALL COORDINATE ALL WORK WITH THE STATE.
 - VISUAL CLEARANCE SHALL BE CONDUCTED BY THE CONTRACTOR'S QUALIFIED CONSULTANT AND ABATEMENT CONTRACTOR'S FOREMAN AT THE END OF EACH WORKDAY AND PRIOR TO THE CLEARANCE AIR SAMPLING.
 - THE DISTURBANCE OR DISLOCATION OF ASBESTOS-CONTAINING MATERIALS MAY ASBESTOS-CONTAINING DUST TO BE RELEASED INTO THE ATMOSPHERE, THEREBY CREATING A POTENTIAL HEALTH HAZARD TO WORKMEN AND NEIGHBORING OCCUPANTS. APPRISE ALL WORKERS, SUPERVISORY PERSONNEL, SUBCONTRACTORS, AND CONSULTANTS WHO WILL BE AT THE JOB SITE OF THE SERIOUSNESS OF THE HAZARD AND OF PROPER WORK PROCEDURES WHICH MUST BE FOLLOWED.
 - WHERE ASBESTOS-CONTAINING MATERIAL IS IN WAY OF CONSTRUCTION AND WHERE INDICATED ON DRAWINGS, TREAT ALL ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH 29 CFR 1926.1101, HIOSH 12-145.1 AND THE SPECIFICATIONS.

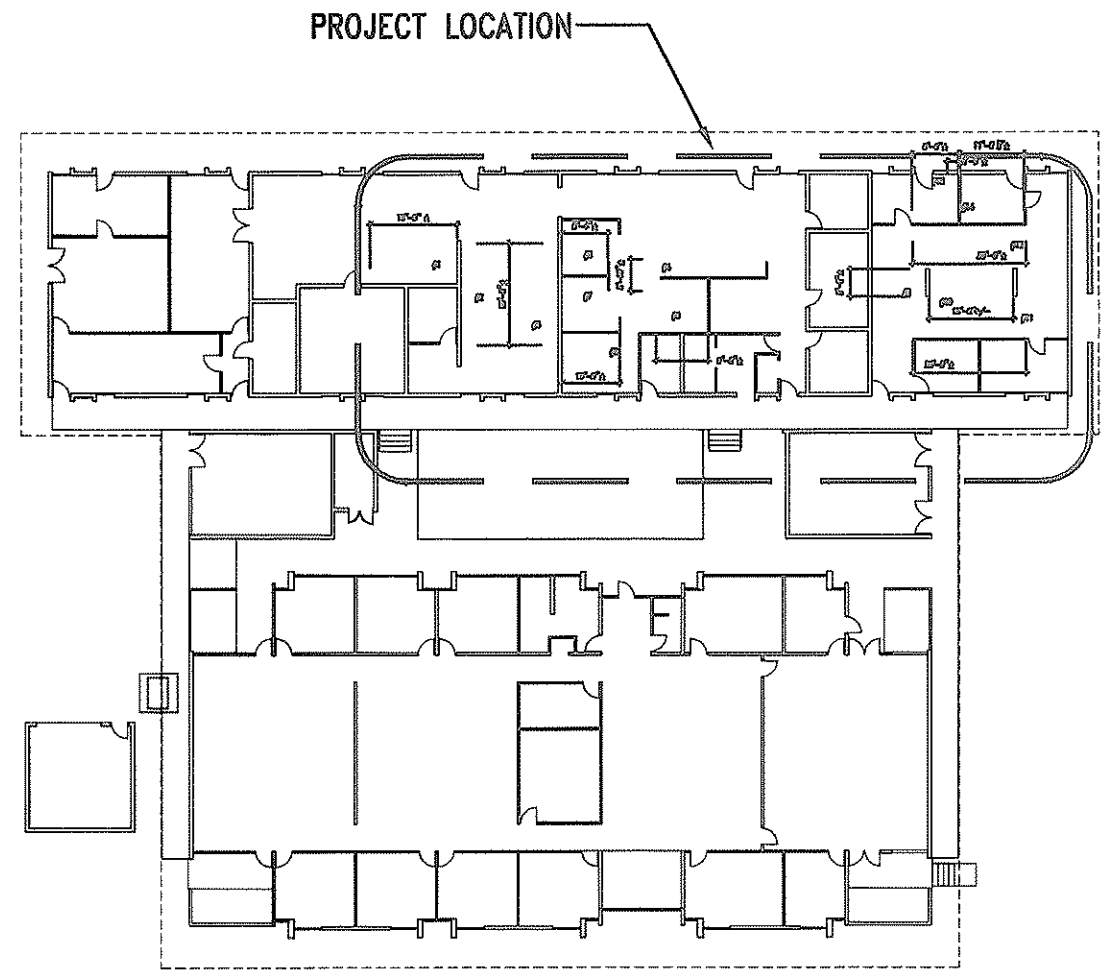
PARTIAL FLOOR PLAN - ASBESTOS REMOVAL
SCALE: 1/8" = 1'-0"



NOTE:
ALL VARNISHED OR PAINTED COMPONENTS ARE ASSUMED TO CONTAIN LEAD. TREAT, HANDLE AND DISPOSE OF AFFECTED COMPONENTS IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

CABINET DETAILS - ASBESTOS REMOVAL
NOT TO SCALE

LEGEND		
MARKER	SYMBOL	DESCRIPTION
01		REMOVE & DISPOSE OF EXISTING ASBESTOS-CONTAINING TOPPING PANEL FROM COUNTER TOP & SPLASH DOWN TO PLYWOOD SUBSTRATE. (TYPICAL)
02		REMOVE & DISPOSE OF EXISTING STAINLESS STEEL SINK W/ ASBESTOS-CONTAINING UNDERCOATING.



KEY PLAN
NOT TO SCALE



Dinek K. Fujinka
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

AR-1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

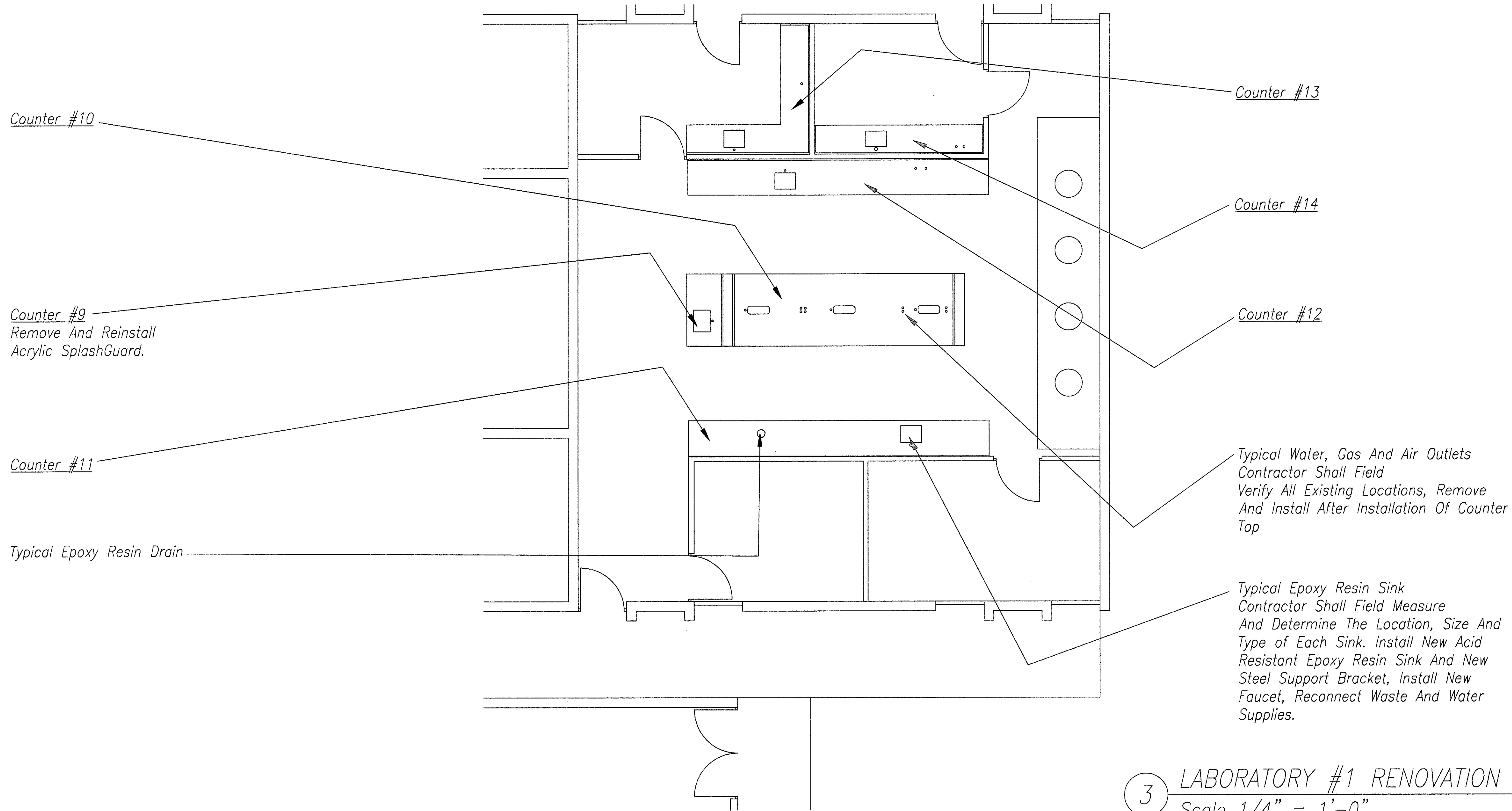
MATERIALS TESTING LAB
FACILITY IMPROVEMENTS
Project No. HWY-0-02-00M

Scale: AS SHOWN Date: MAY, 2000

SHEET No. 3 OF 22 SHEETS

ORIGINAL PLAN
DATE 4-10-00
DRAWN BY J/M
TRACED BY J/M
DESIGNED BY J/M
CHECKED BY J/M
No.

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	ADD.6	22



3 LABORATORY #1 RENOVATION PLAN
Scale 1/4" = 1'-0"

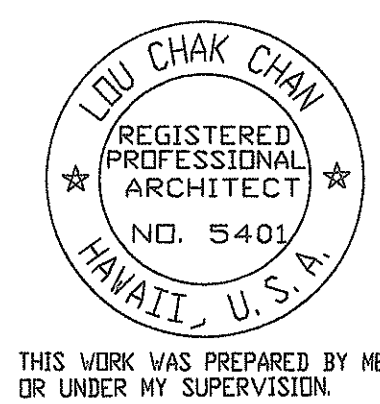
COUNTER WORK DESCRIPTION

1. Install New Acid Resistant Epoxy Resin Integral Countertops And Backsplashes For Counters #9, #10, #11, #12, #13 And #14.
2. Install Epoxy Resin Sinks Galvanized Steel Bracket And Suspended Rods. Bracket, Faucets, Hot And Cold Water And Waste Connections And Other Accessories For Counters #9, #10, #11, #12, #13 And #14.

3. Dismantle And Remove Existing Gas, Water And Air Outlets And Control Valves. Install After Replacement Of Countertop. See Mechanical Drawings For Scope Of Work. Outlets Shown On The Plans Were Approximate And May Not Be Accurate Contractor Shall Field Verify And Determine The Locations, Size, Type And Quantity Of Gas, Water And Air Outlets, Sinks And Plumbing Work. Provide Same Quantity Of Outlets, Sinks And Plumbing Work After Renovation Work. Also See Mechanical Drawings.

4. Repaint All Cabinets And Cabinet Doors, Drawers Surfaces Exposed To View.
5. Contractor Shall Dismantle, Disconnect And Remove All Existing Attachment At Each Countertop And At Each Sink. Reinstall And/Or Reconnect After Construction.

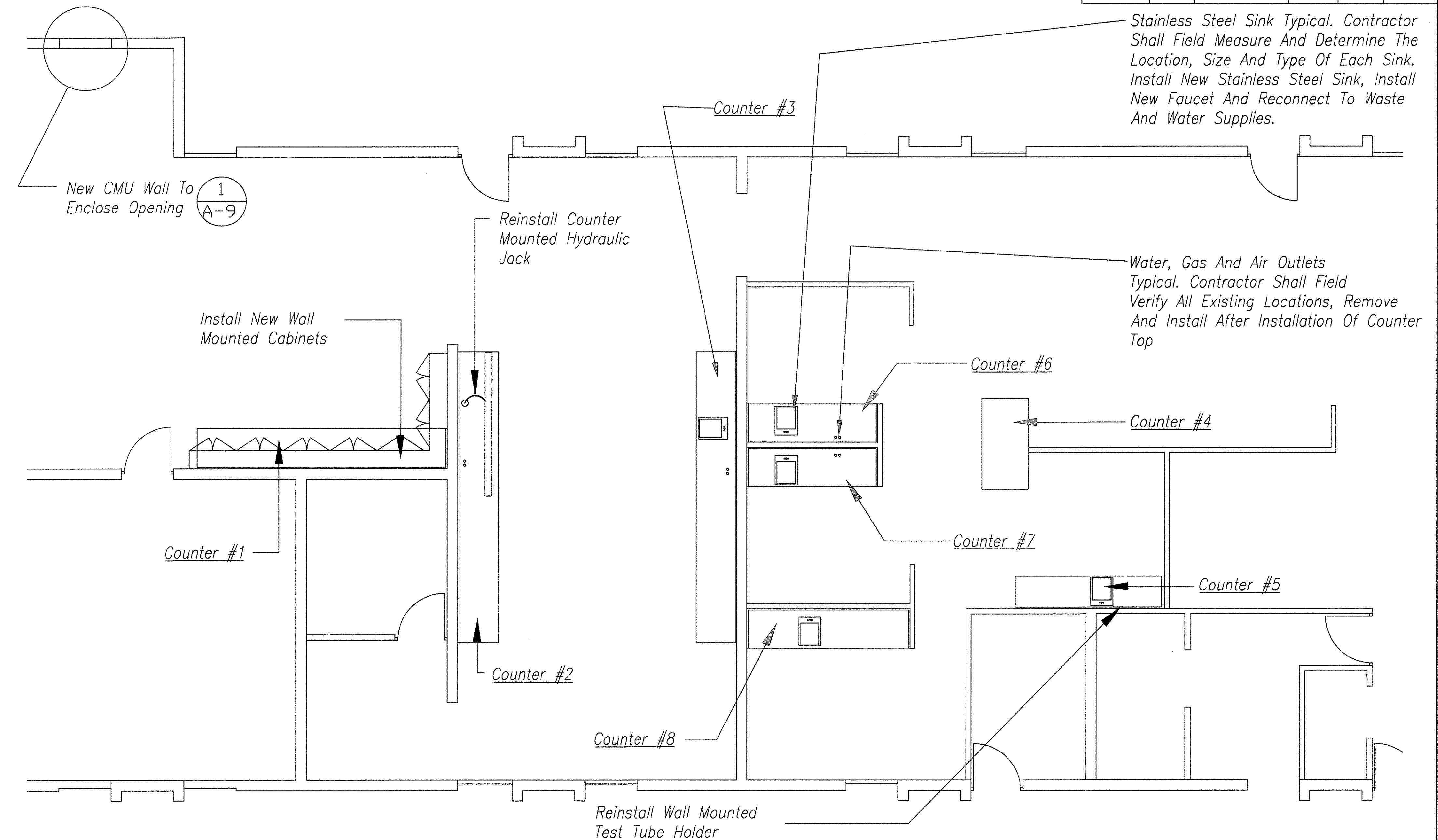
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/30/00
No.	QUANTITIES BY	
	CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

A-3	
6/19/00	Revised Notes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RENOVATION OF LABORATORY #1	
BUILDING RENOVATION - MISCELLANEOUS MATERIALS TESTING & RESEARCH BRANCH Project No. HWY-0-02-00M	
Scale:	Date: MAY, 2000

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	ADD.7	22



3 RENOVATION OF LABORATORY #2
Scale 1/4" = 1'-0"

COUNTER WORK DESCRIPTION

1. Install New Acid Resistant Epoxy Resin Integral Countertops And Backsplashes For Counters #1, #2, #3, #4, #5, #6 #7 And #8
2. Install Stainless Steel Sinks, Faucets, Hot And Cold Water, Waste Connections And Other Accessories For Counters #3, #5, #6, #7 And #8.

3. Dismantle And Remove Existing Gas, Water And Air Outlets And Control Valves. Install After Replacement Of Countertop. See Mechanical Drawings For Scope Of Work. Outlets Shown On The Plans Were Approximate And May Not Be Accurate Contractor Shall Field Verify And Determine The Locations, Size, Type And Quantity Of Gas, Water And Air Outlets, Sinks And Plumbing Work. Provide Same Quantity Of Outlets, Sinks And Plumbing Work After Renovation Work. Also See Mechanical Drawings.

4. Repaint All Cabinets And Cabinet Doors, Drawers Surfaces Exposed To View.
5. Contractor Shall Dismantle, Disconnect And Remove All Existing Attachment At Each Countertop And At Each Sink. Reinstall And/Or Reconnect After Construction.

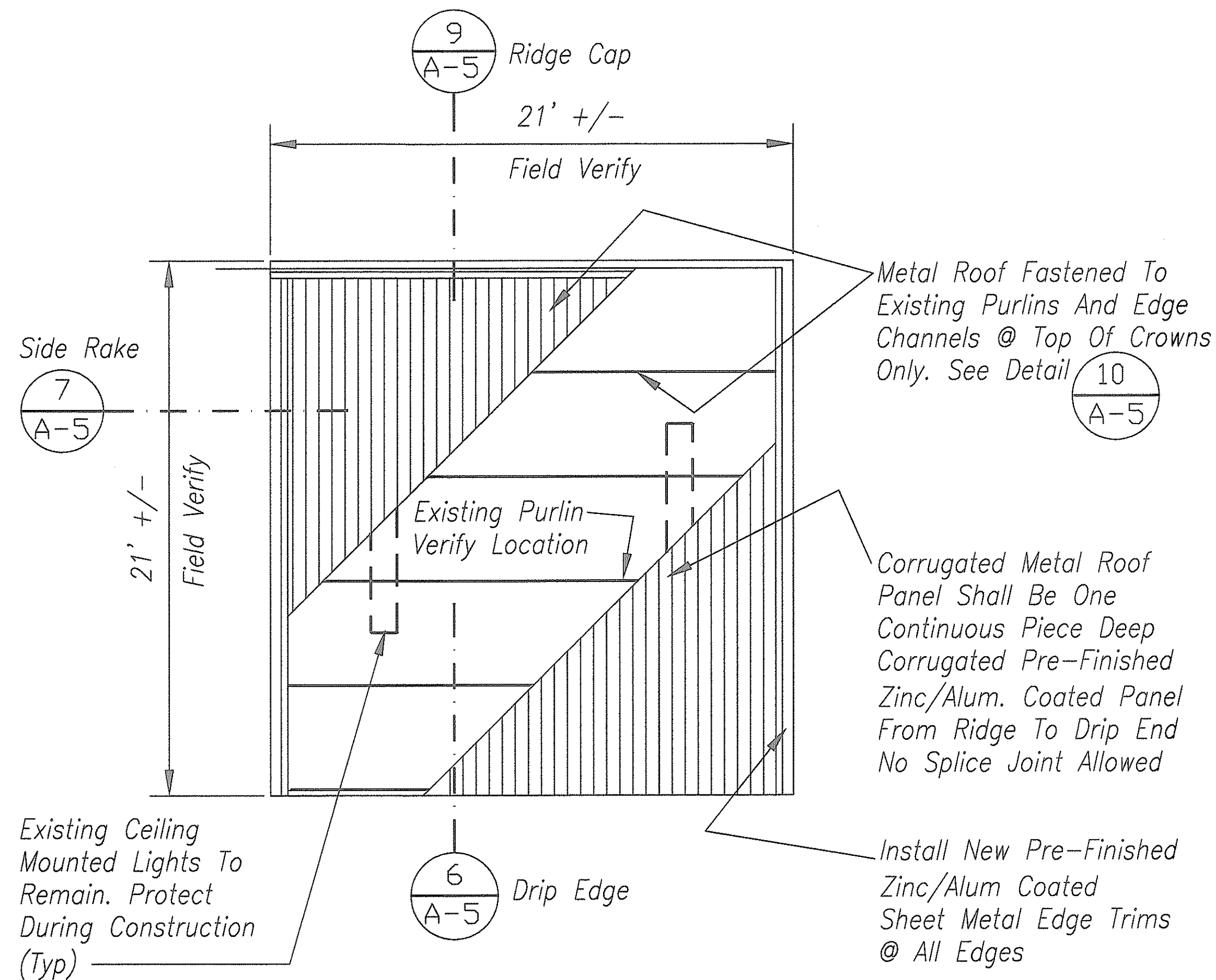
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK DESIGNED BY	M. H. H. H.	4/20/00
QUANTITIES BY	L. Chan	"
CHECKED BY	L. Chan	"
No.		



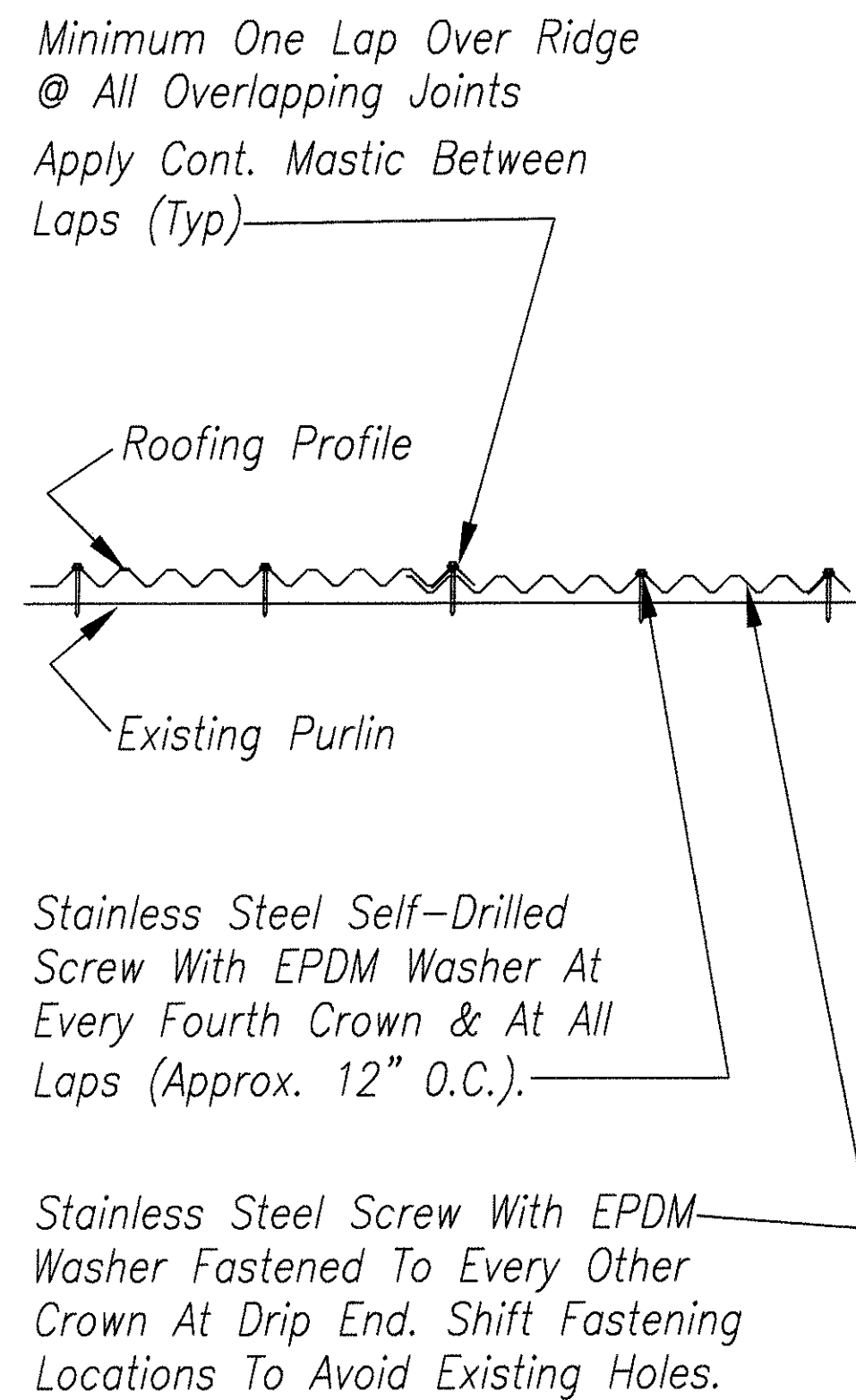
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

A-4	
6/19/00	Revised Notes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RENOVATION OF LABORATORY #2	
BUILDING RENOVATION - MISCELLANEOUS MATERIALS TESTING & RESEARCH BRANCH	
Project No. HWY-0-02-00M	
Scale:	Date: MAY, 2000
SHEET No. 7 OF 22 SHEETS	

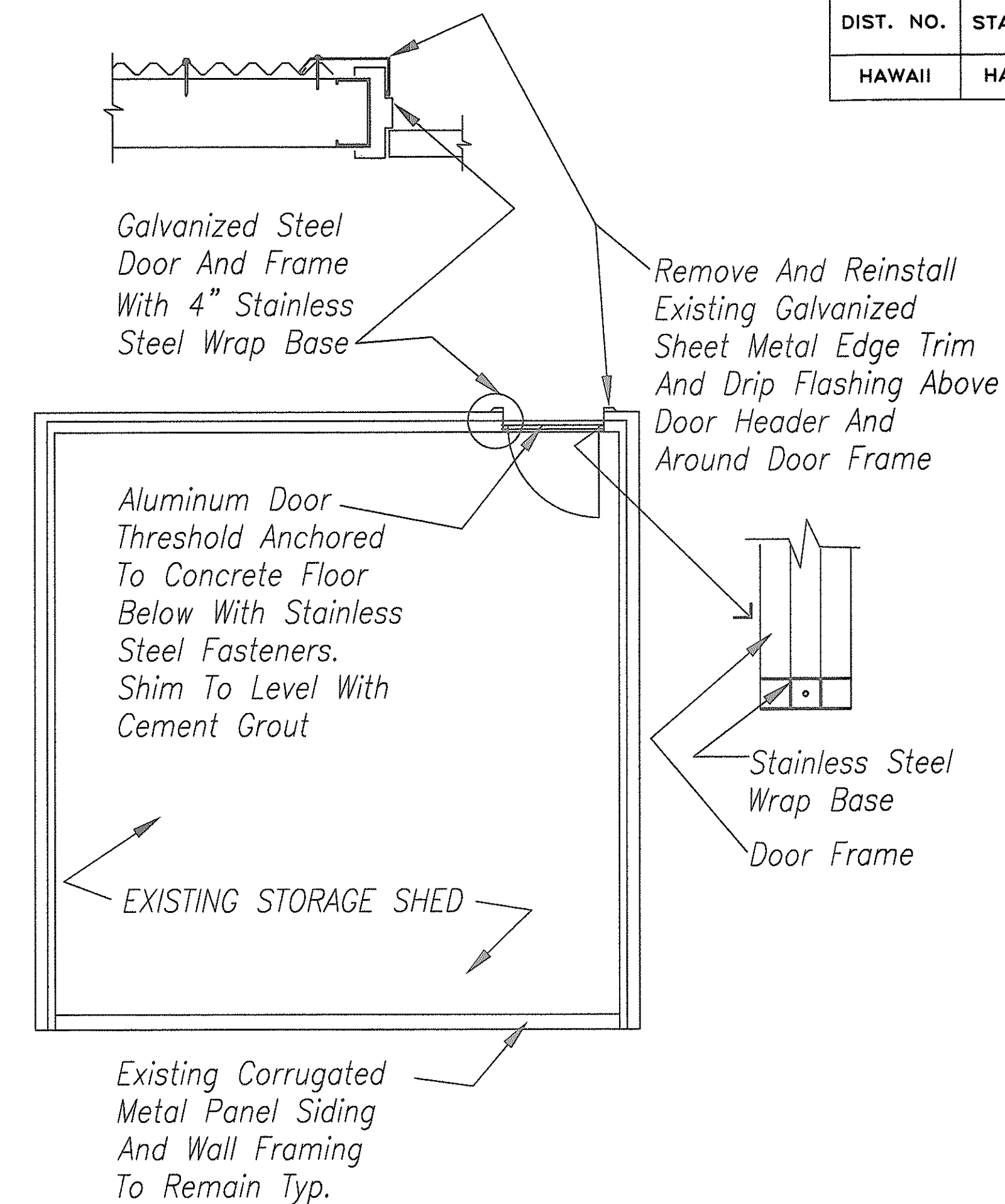
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	ADD.8	22



14 STORAGE SHED ROOF PLAN
Scale $\frac{1}{4}" = 1'-0"$

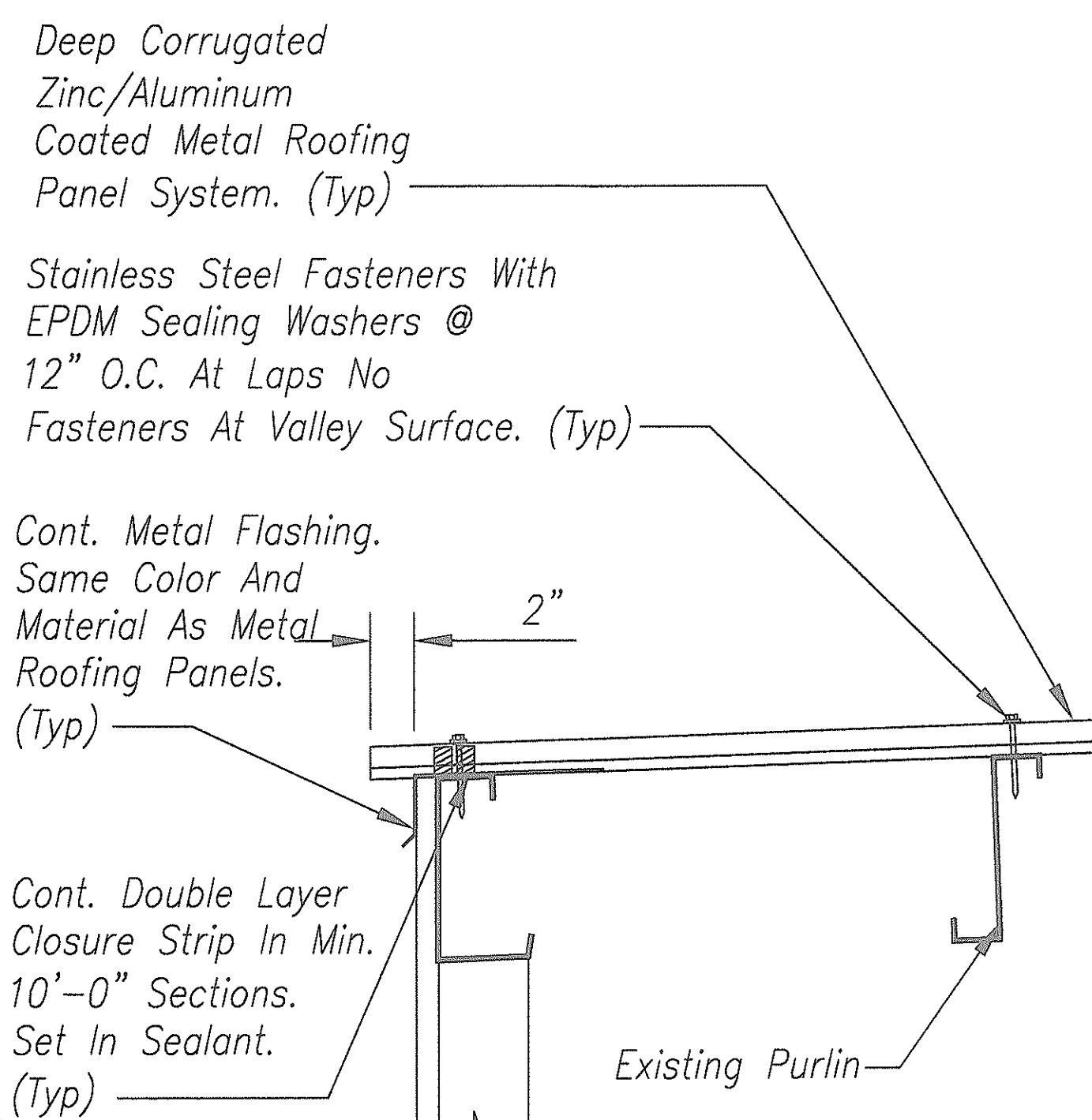


10 ROOF PANEL PROFILE AND FASTENING DETAIL
Not To Scale

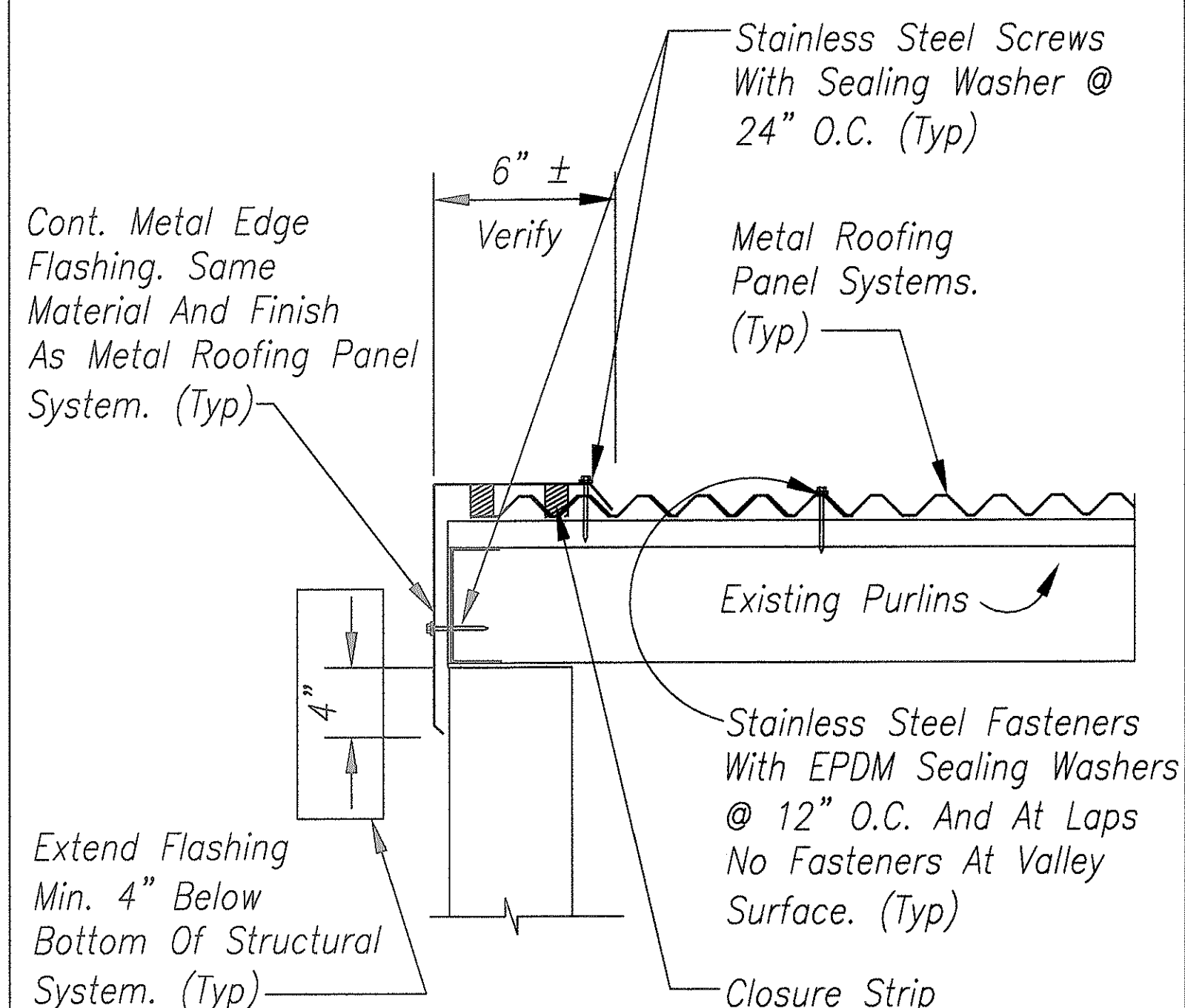


3 STORAGE SHED FLOOR PLAN
Scale $\frac{1}{4}" = 1'-0"$

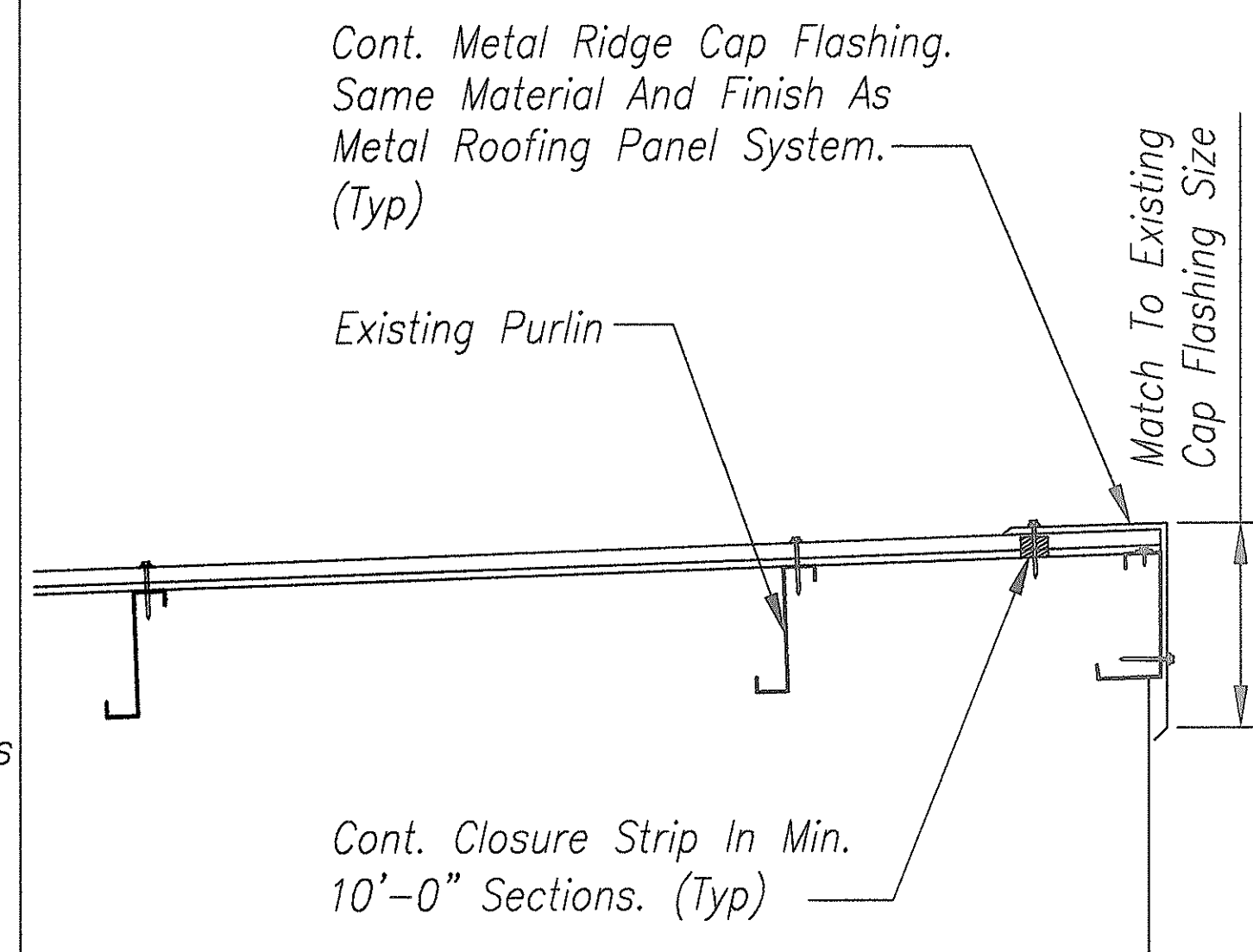
Note:
Contractor Shall Provide Temporary Roof Cover Over The Storage Shed To Protect The Content, Security Alarm Connection, Existing Electrical Power And Lighting System During The Construction. Contractor Shall Be Solely Responsible For The Repair And Replacement Of All Damage Items.
Dismantle And Remove Existing Metal Door, Door Frame, Aluminum Threshold And Hardware From Existing Door Opening. Existing Galvanized Metal Edge Trim Security Alarm Switch Shall Be Removed And Reinstalled After Door Replacement. Install New Galvanized Metal Door And Frame And New Door Hardware. Paint Door And Frame To Match New Roofing Color.



6 FLASHING CONDITION @ DRIP EDGE
Not To Scale



7 FLASHING CONDITION @ RAKE
Not To Scale



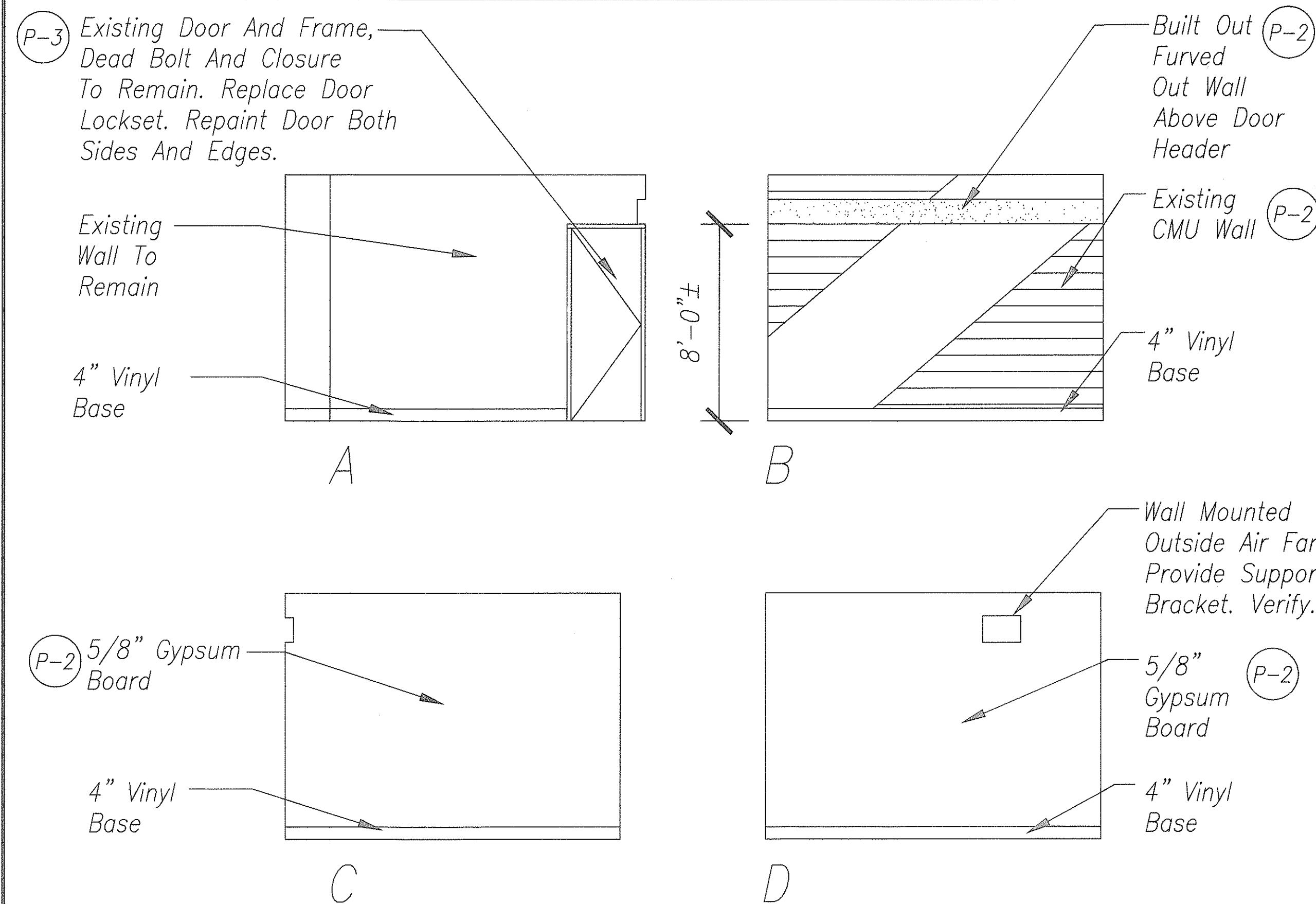
9 FLASHING CONDITION @ RIDGE CAP
Not To Scale

ORIGINAL SURVEY PLOTTED BY DATE
DRAWN BY M. Frazee 4/20/00
NOTE BOOK DESIGNED BY L. Chan
QUANTITIES BY L. Chan
CHECKED BY L. Chan
No.

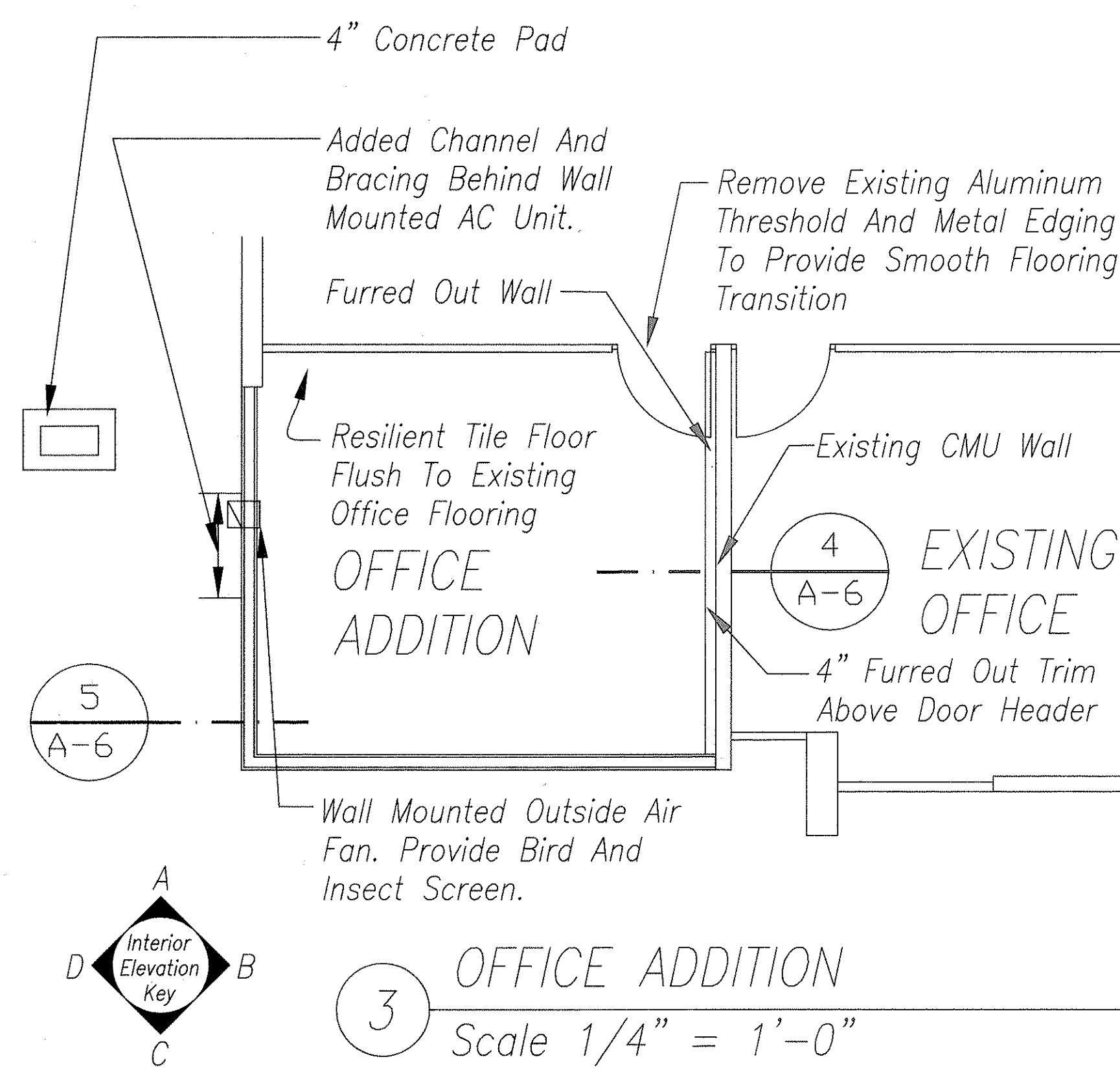


A-5	
6/19/00	Revised Notes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>RENOVATION OF STORAGE SHED</u>	
<u>BUILDING RENOVATION - MISCELLANEOUS</u>	
<u>MATERIALS TESTING & RESEARCH BRANCH</u>	
<u>Project No. HWY-0-02-00M</u>	
Scale:	Date: MAY, 2000
SHEET No. 8 OF 22 SHEETS	

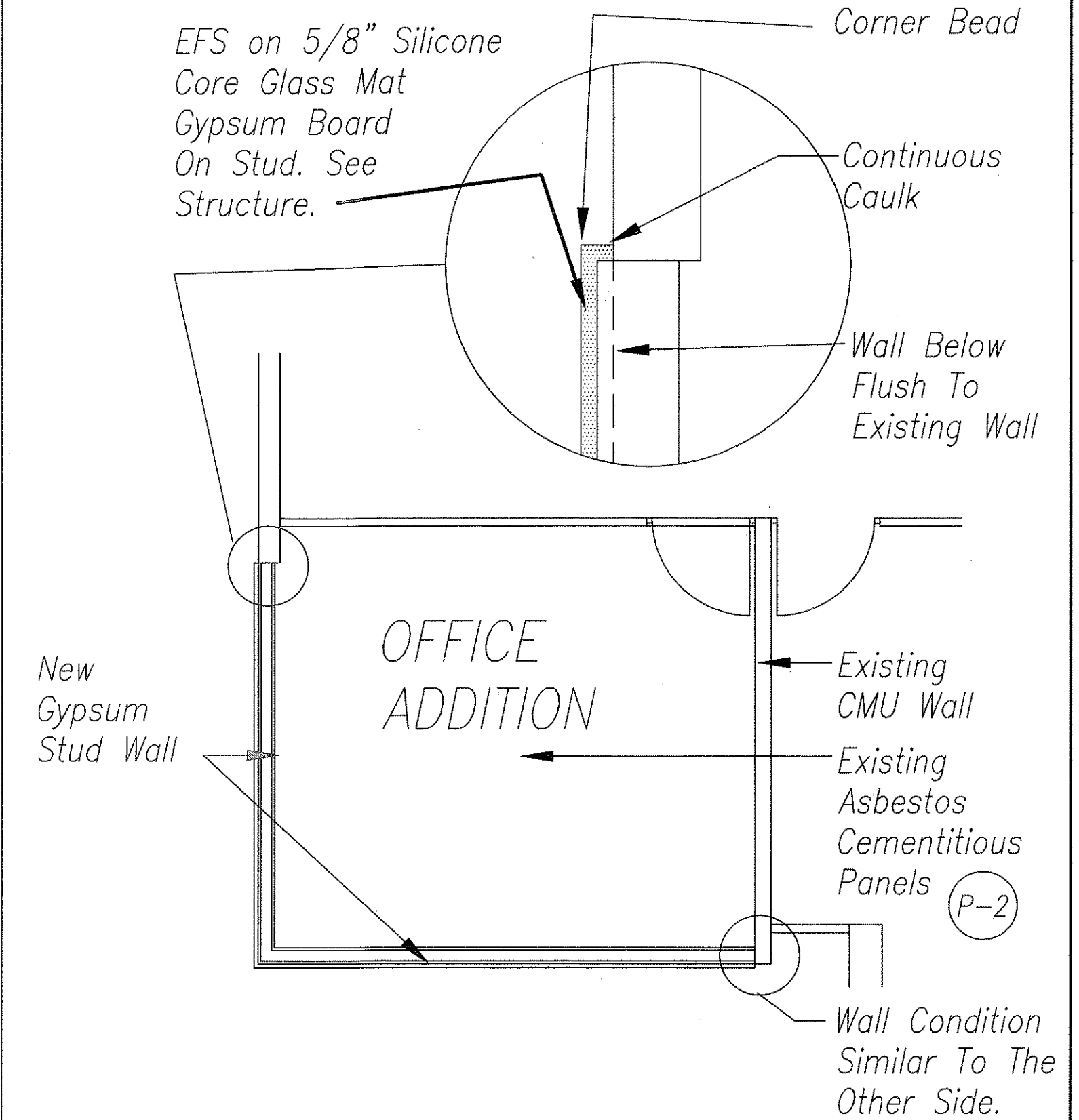
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	9	22



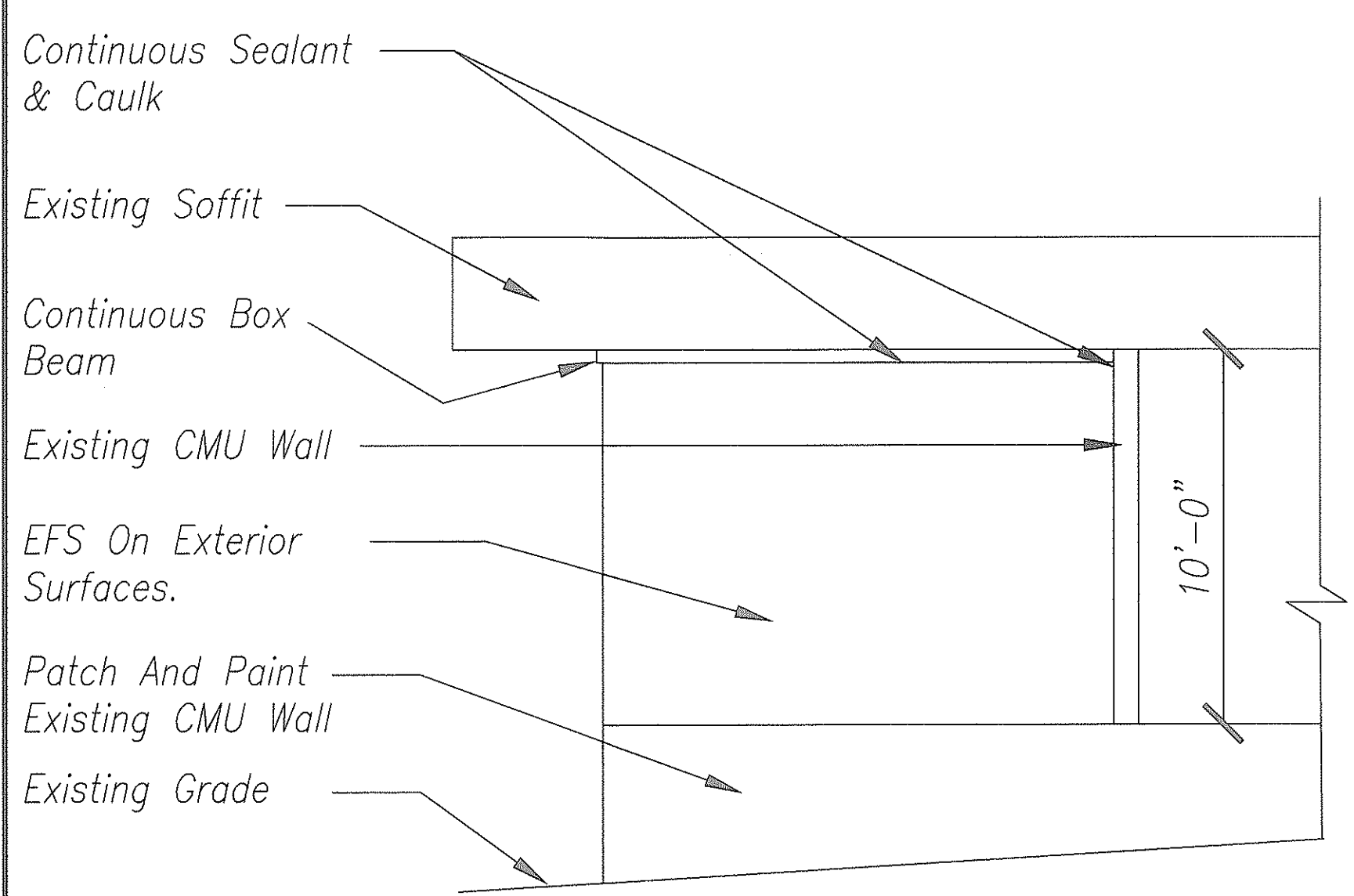
9 OFFICE ADDITION WALL ELEVATION
Scale 1/4" = 1'-0"



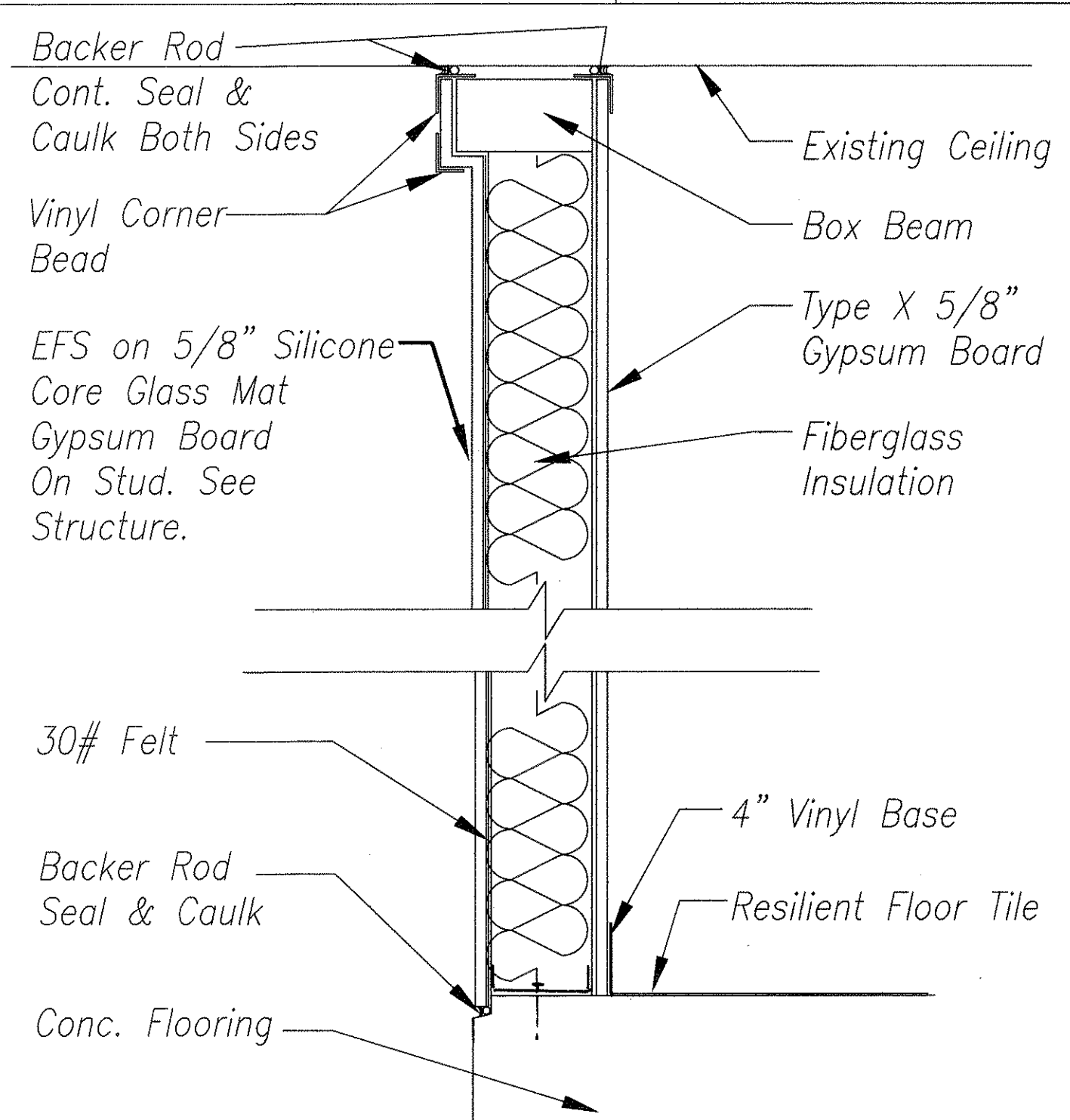
3 OFFICE ADDITION
Scale 1/4" = 1'-0"



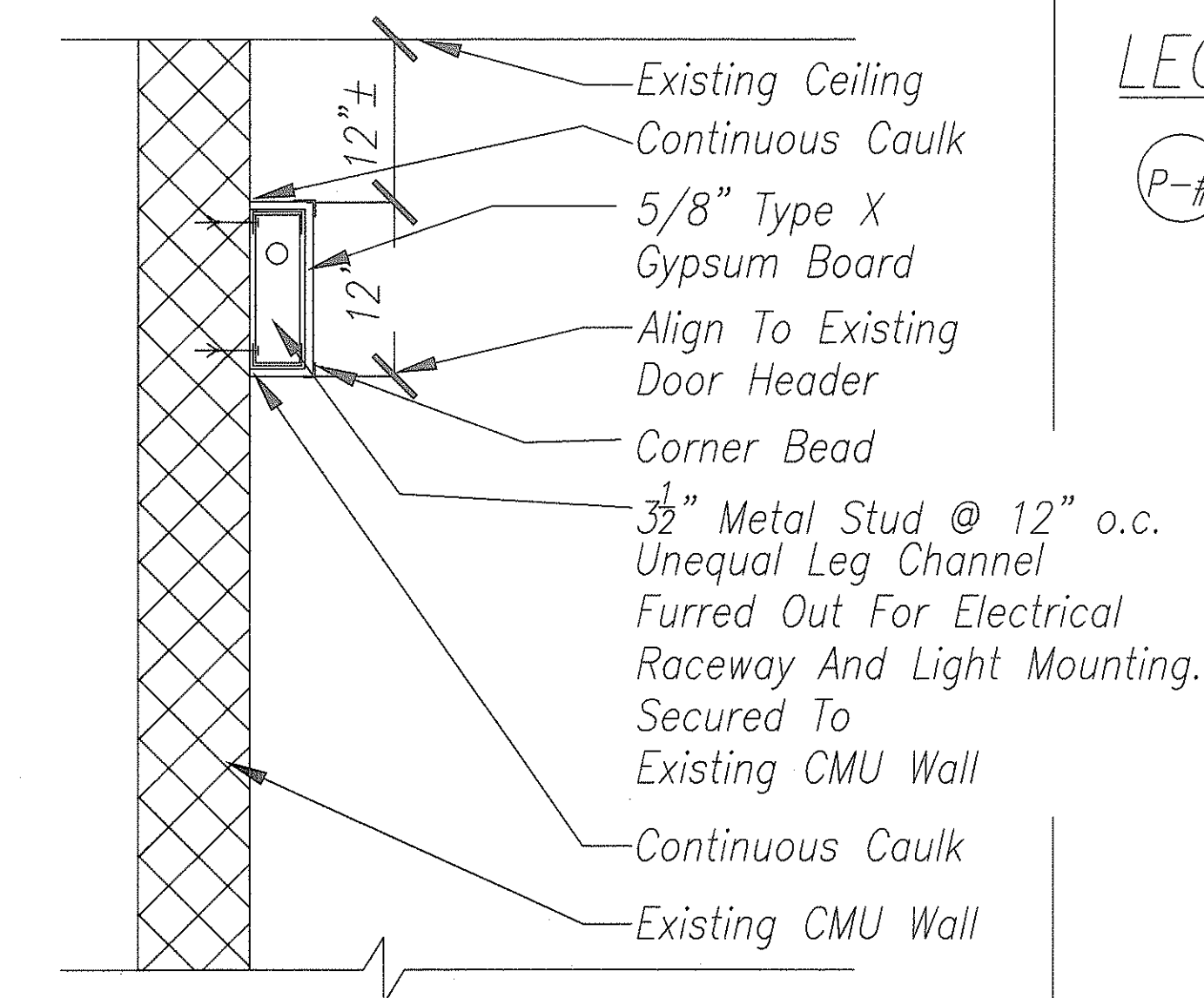
1 OFFICE ADDITION CEILING PLAN
Scale 1/4" = 1'-0"



6 EXTERIOR ELEVATION
Scale 1/4" = 1'-0"



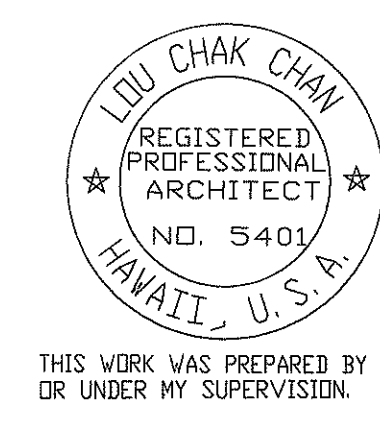
5 OFFICE ADDITION WALL DETAIL
Scale 1 1/2" = 1'-0"



4 OFFICE ADDITION WALL DETAIL
Scale 1 1/2" = 1'-0"

LEGEND

P-# Denotes Paint Finish And Color. Colors To Match Existing Interior Building Colors



A-6

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OFFICE ADDITION

BUILDING RENOVATION - MISCELLANEOUS
MATERIALS TESTING & RESEARCH BRANCH
Project No. HWY-0-02-00M

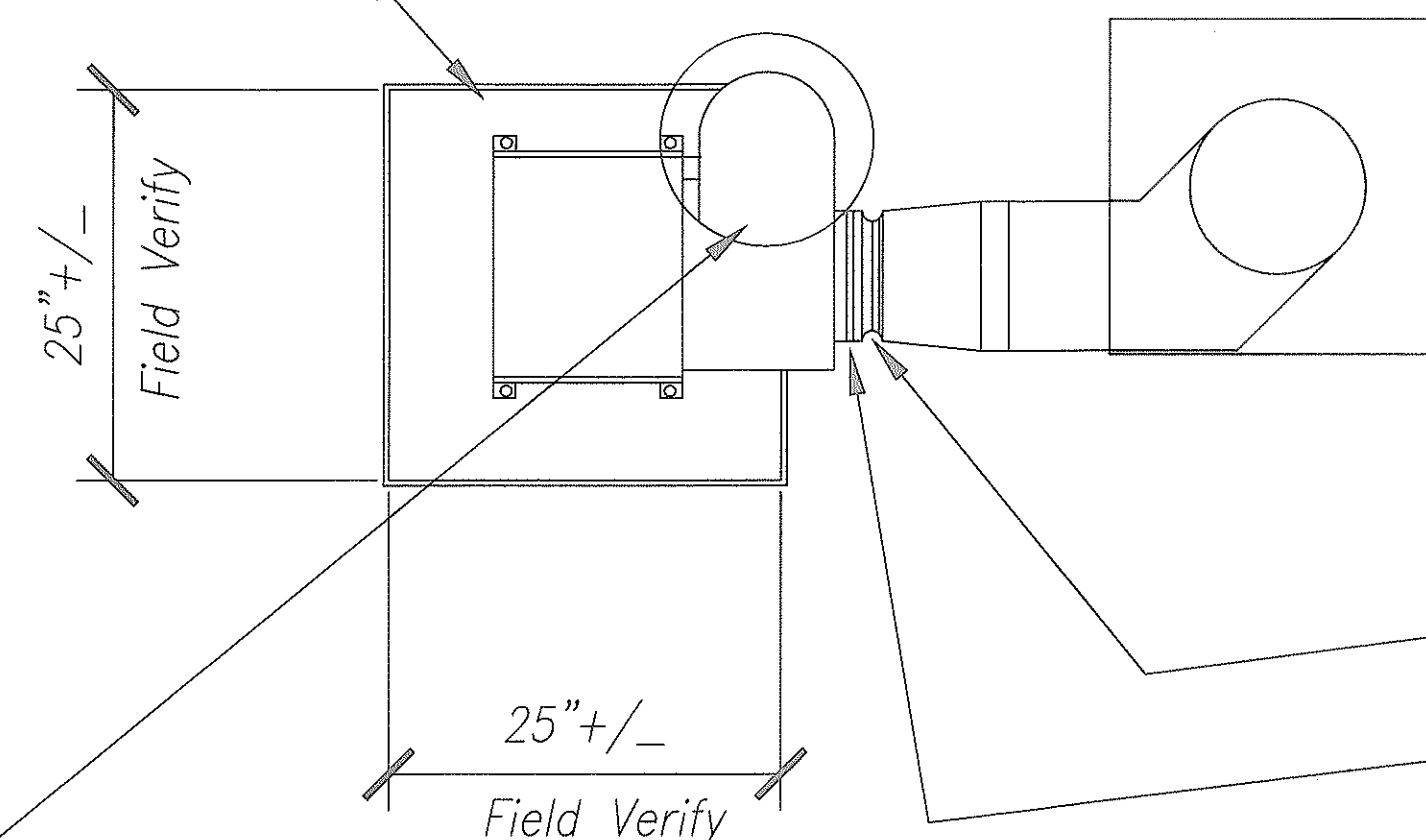
Scale: Date: MAY, 2000

SHEET No. 9 OF 22 SHEETS

ORIGINAL PLAN
DESIGNED BY
CHECKED BY
DATE
4/30/02
NOTE BOOK
QUANTITIES BY
L. Chan
L. Chan

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	10	22

Stainless Steel Platform Curb Flashing, Weld All Joints, Caulk And Reseal Joints



Note:
Install (4 Sets) New Fiberglass Blowers And Housings;
Electrical Motors And Housings;
Replace Flexible Duct, Clamps And Connections. Install Platform curb Sheet Metal Flashings.
Install New Junction Boxes And Reconnect Electrical Power Supply.

New Flexible Duct Joint
New Stainless Steel Clamps

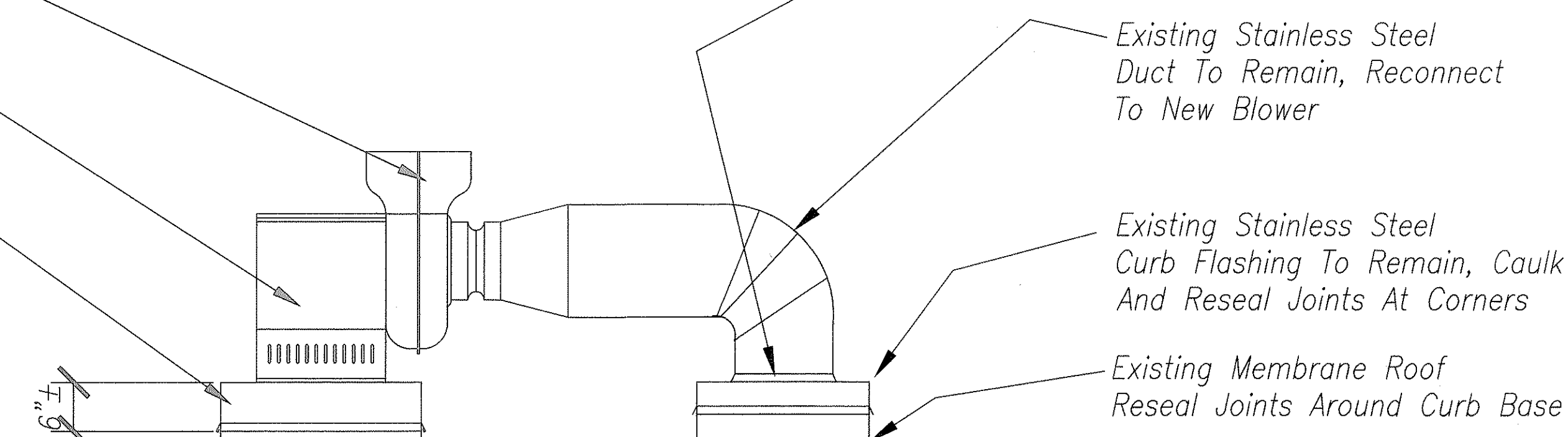
Fiberglass Blower And Fan Housing

10 EXHAUST FAN PLAN VIEW
Not To Scale

Electrical Motor And Housing
Paint Exposed Metal Surface

Raised Platform Curb Flashing See Detail

11
A-7



10 RENOVATION OF EXHAUST FAN AND EXHAUST DUCT
Not To Scale

Demolish And Remove Existing Fan Blower and Housing, Disconnect Electrical Connections

Demolish And Remove A Portion Of Duct Connections, Flexible Duct And Tie-in

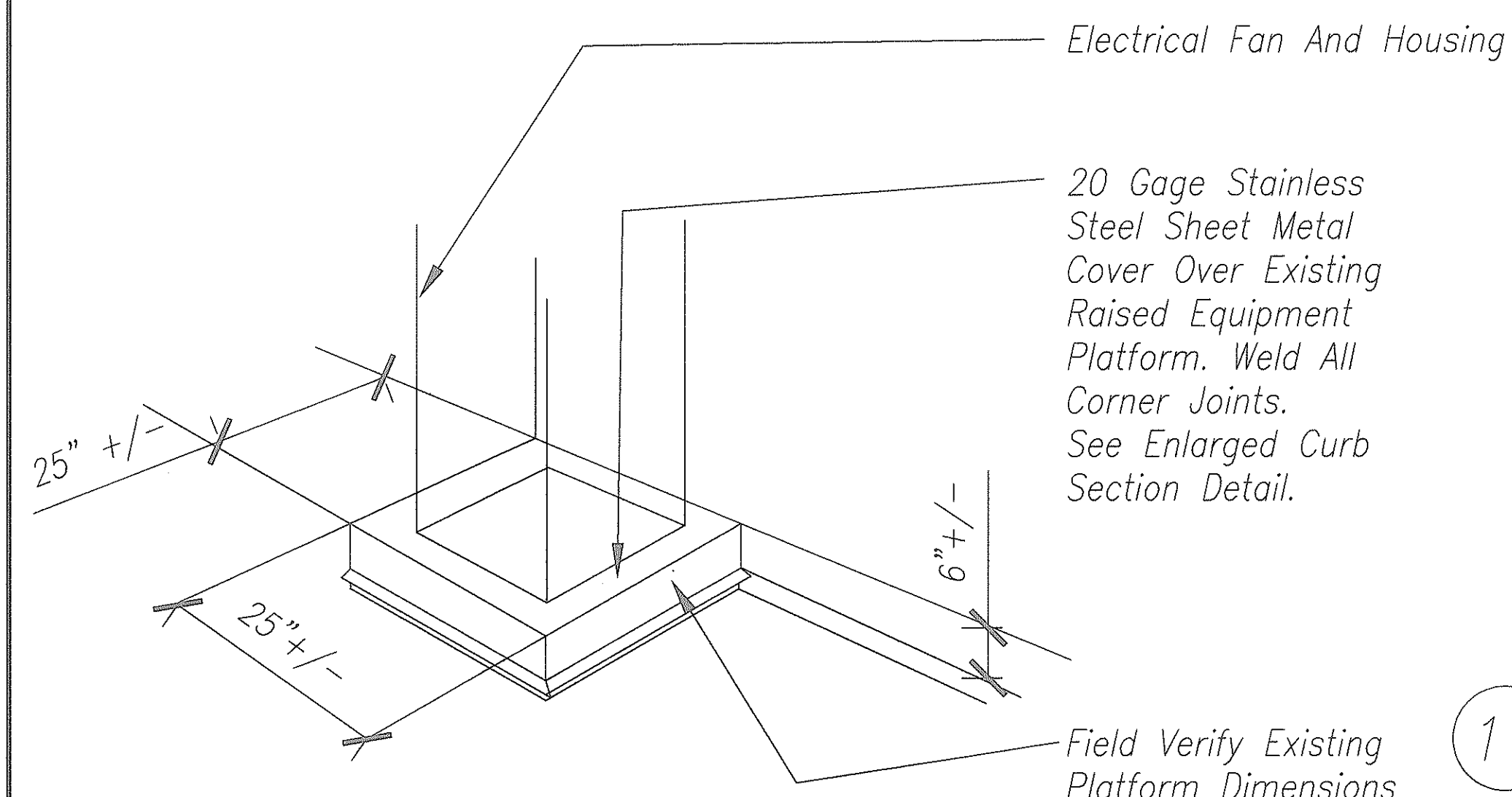
Demolish And Remove Existing Electrical Fan Motors & Housings, Electrical Junctions.

Demolish And Remove Existing Galvanized Curb Flashing

Existing SinglePly Membrane Roof. Repair.

9 EXHAUST FAN DEMOLITION AREA
Not To Scale

ORIGINAL SURVEY PLOTTED BY DATE
PLAN DRAWN BY M. Fitzgerald 4/30/00
NOTE BOOK DESIGNED BY L. Chan
QUANTITIES BY L. Chan
CHECKED BY L. Chan
No.



Caulk And Seal Fastener

Stainless Steel Fastener With Neoprene Washer. 2 At Each Sides.

2" X 3" X 1/4" Neoprene Pad

S.S. Fastener With EPDM Washer and Sealant on Top

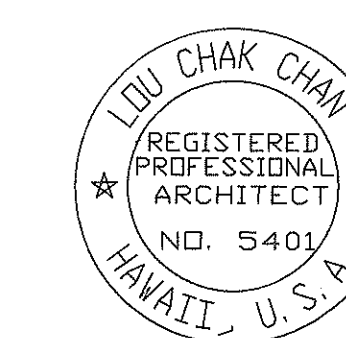
Existing Membrane Roofing To Remain

20 Gage Stainless Steel Sheet Metal Cover. Weld All Joints At Corners

Existing Curb And Platform To Remain

Enlarged Curb Section Detail

11 ELECTRICAL EXHAUST FAN MOUNTING PLATFORM AND DETAILS
Not To Scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

A-7

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RENOVATION OF EXHAUST FANS

BUILDING RENOVATION - MISCELLANEOUS
MATERIALS TESTING & RESEARCH BRANCH

Project No. HWY-0-02-00M

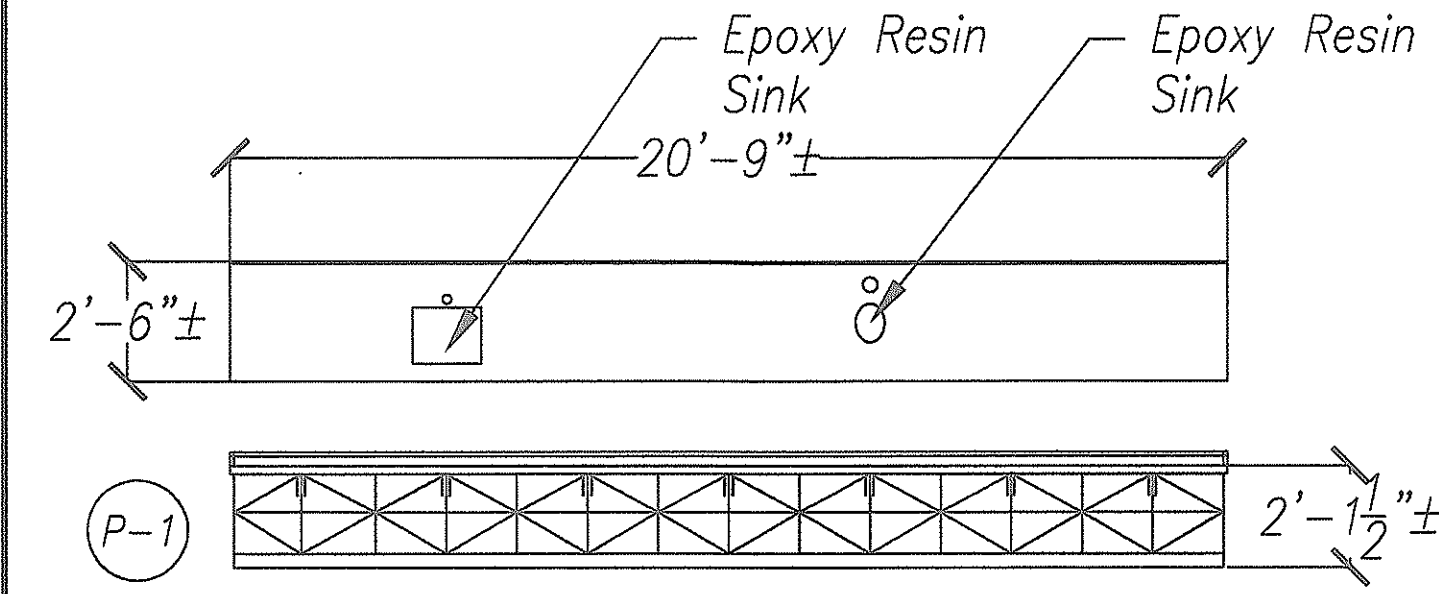
Scale: Date: MAY, 2000

SHEET No. 10 OF 22 SHEETS

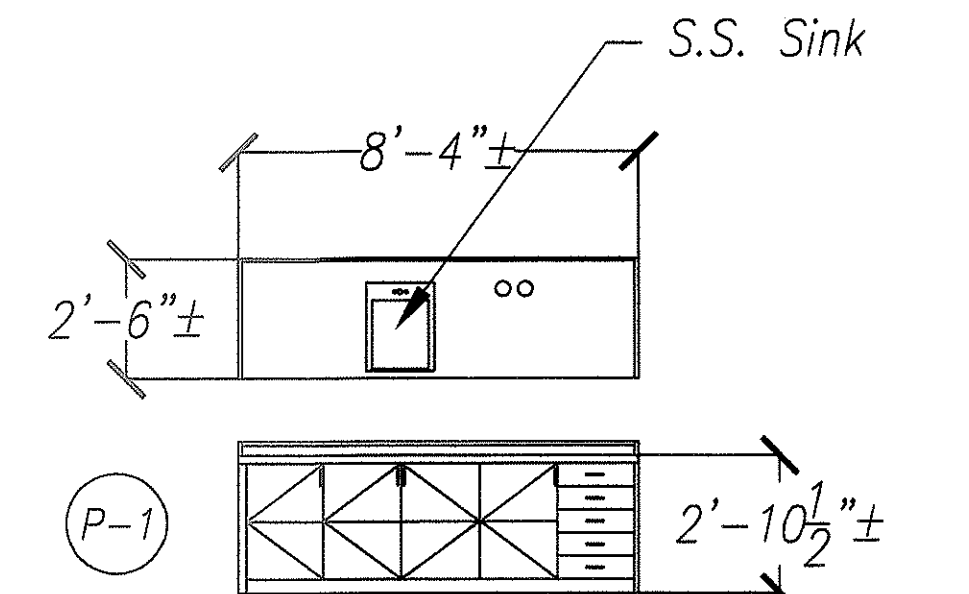
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	ADD.11	22

NOTE:

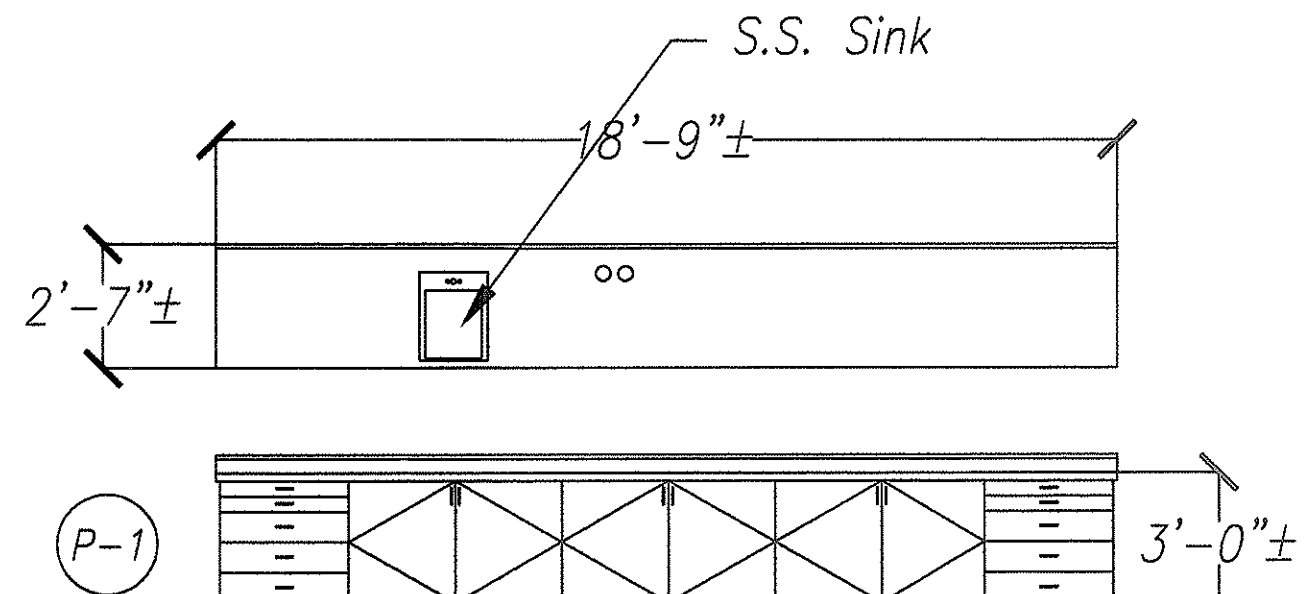
1. Size Of Cabinet, Countertop, Backsplash, Quantity And Size Of Sink, Location Of Sink, Drain, Gas, Water, Air Outlets And The Condition Of The Cabinet Are Approximate And May Not Be Accurate. Contractor Shall Field Verify, Measure And Obtain Actual Dimensions From The Field. Also See Note On A-10 - (Wall Mounted Cabinet Details).
2. Submit Shop Drawing Base On Actual Field Measurement For Approval Prior To Any Fabrication. See Sheet A-11 - (Base Cabinet And Counter Section For Detail).
3. Contractor Shall Provide Backsplashes For All Countertops Against The Wall. See Sheet A-11.



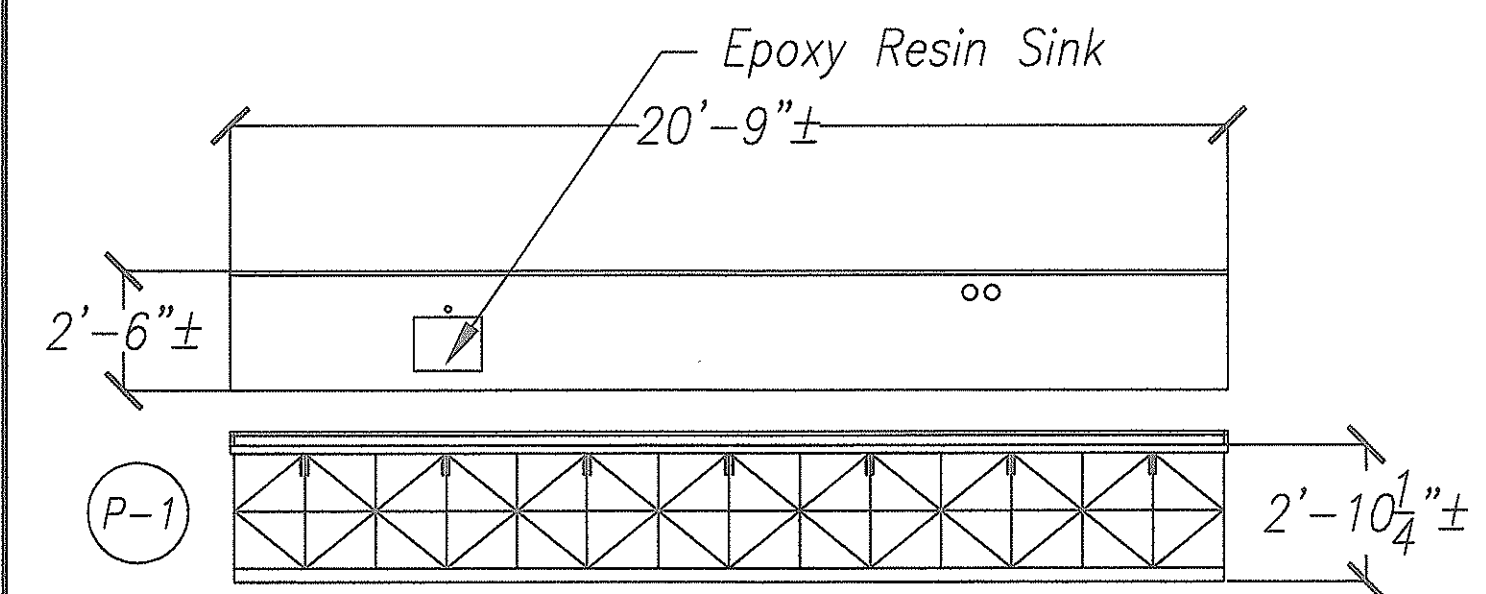
11 COUNTER TOP # 11
Scale 1/4" = 1'-0"



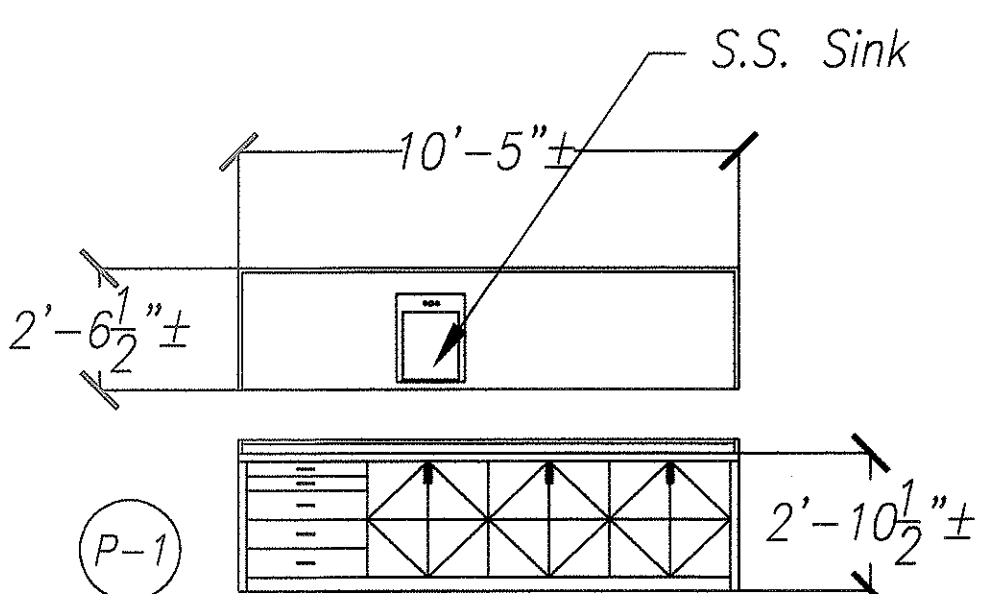
7 COUNTER TOP #7
Scale 1/4" = 1'-0"



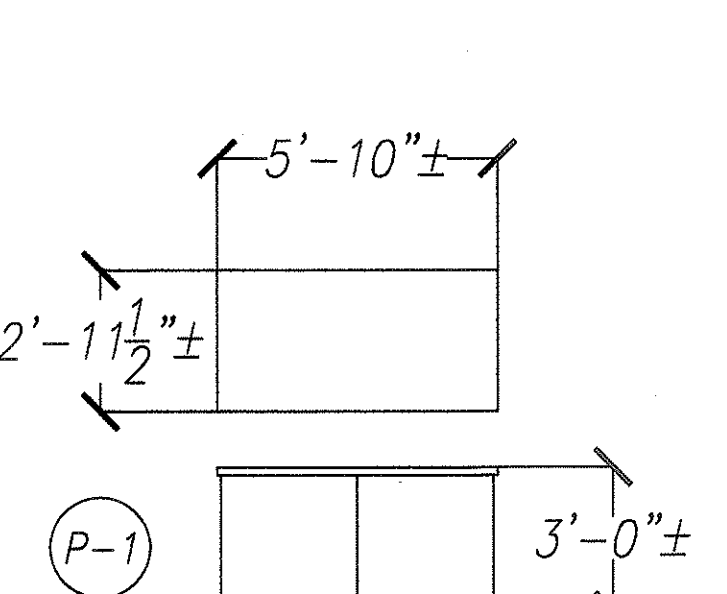
3 COUNTER TOP #3
Scale 1/4" = 1'-0"



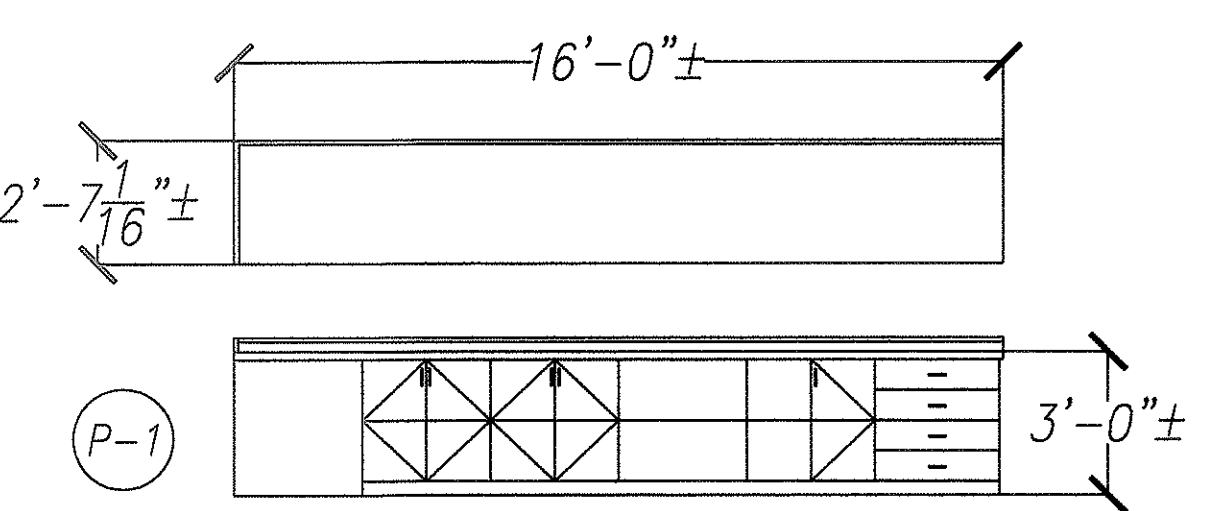
12 COUNTER TOP #12
Scale 1/4" = 1'-0"



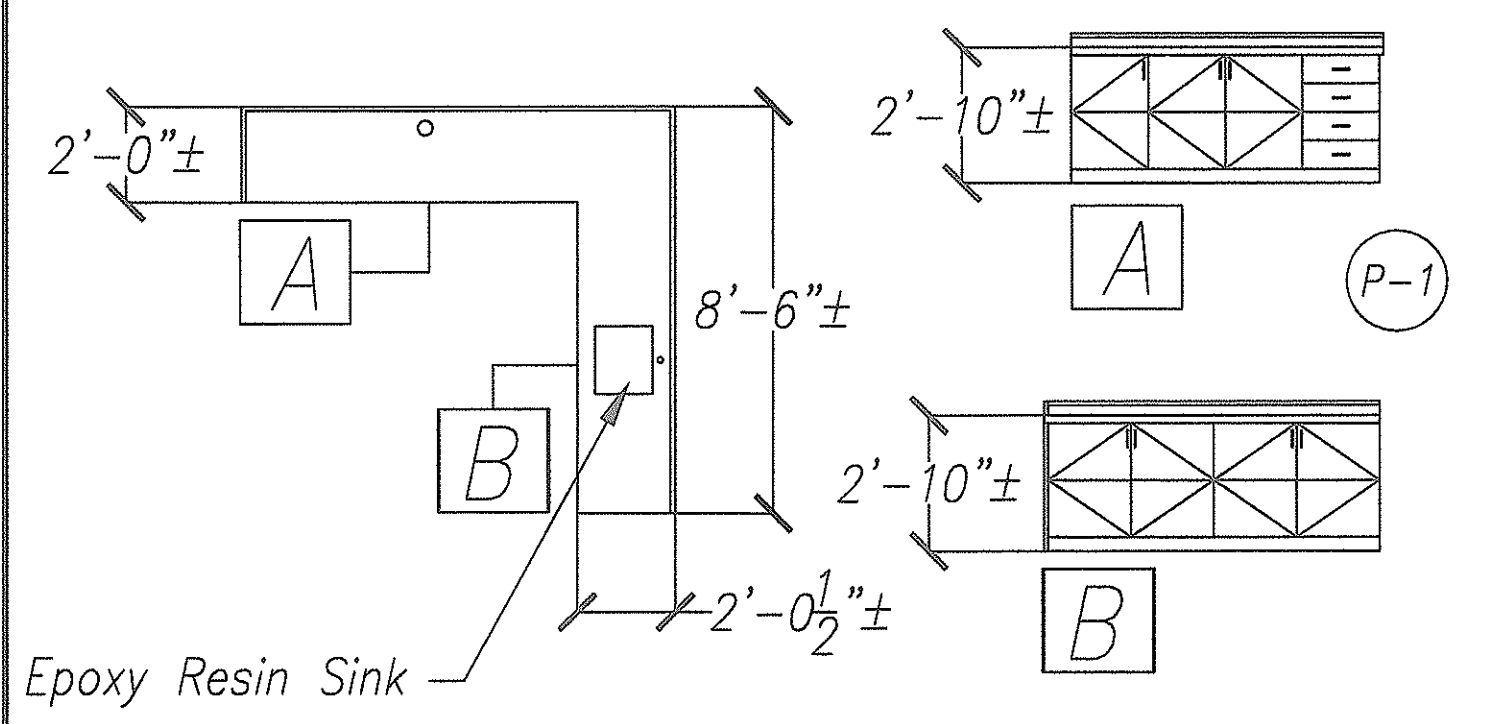
8 COUNTER TOP #8
Scale 1/4" = 1'-0"



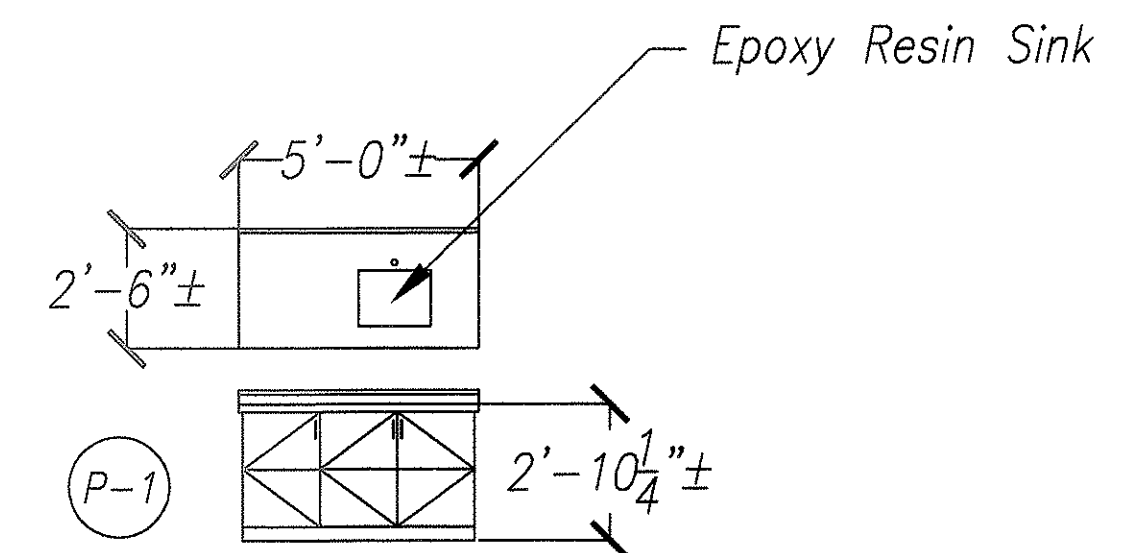
4 COUNTER TOP #4
Scale 1/4" = 1'-0"



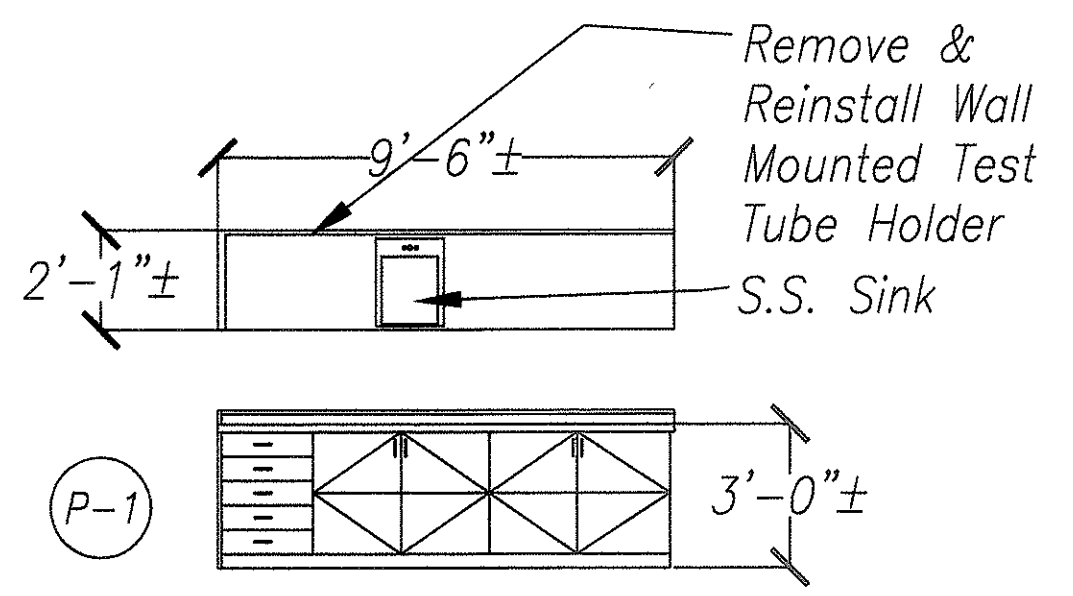
1 COUNTER TOP #1
Scale 1/4" = 1'-0"



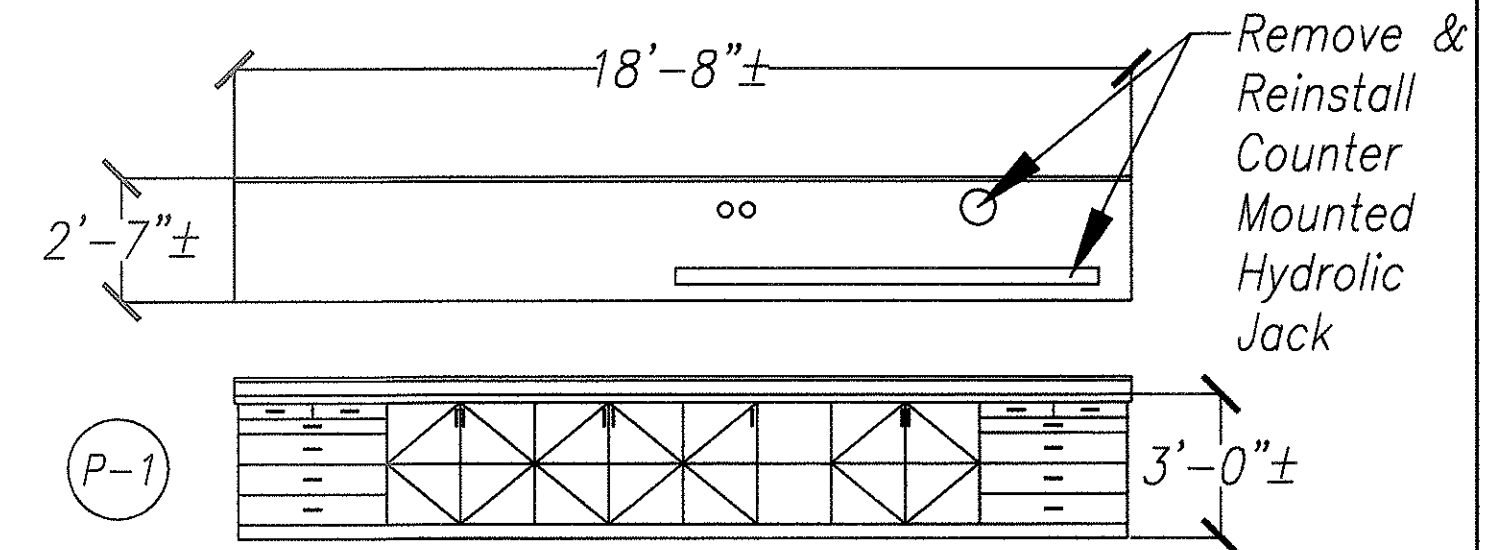
13 COUNTER TOP #13
Scale 1/4" = 1'-0"



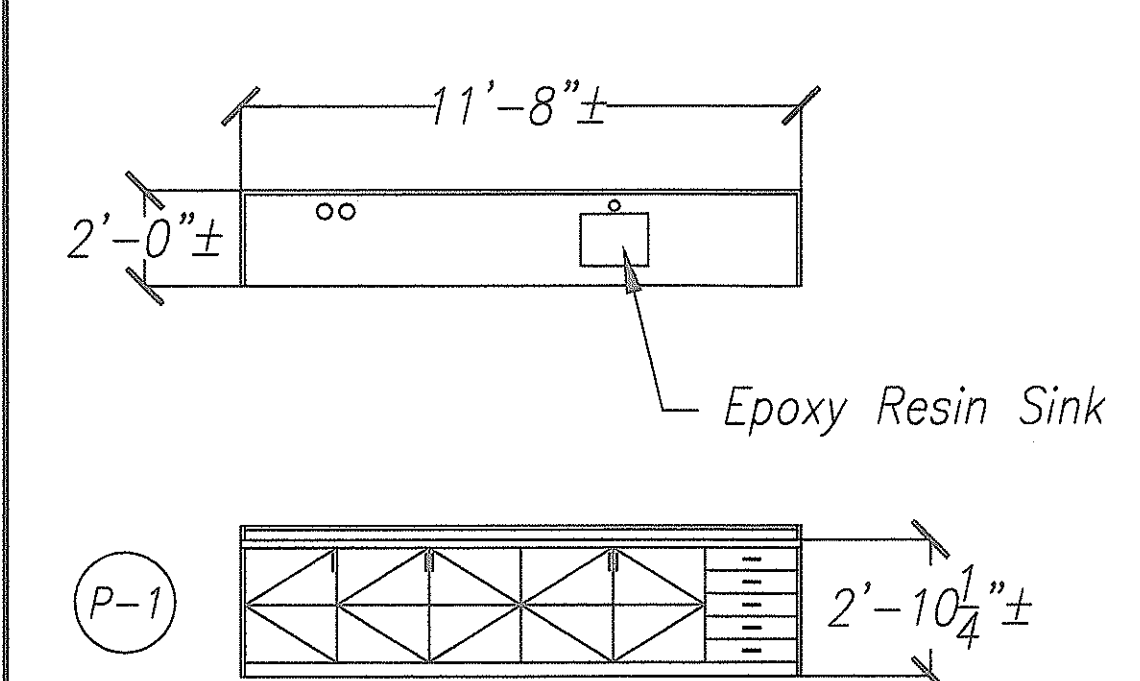
9 COUNTER TOP #9
Scale 1/4" = 1'-0"



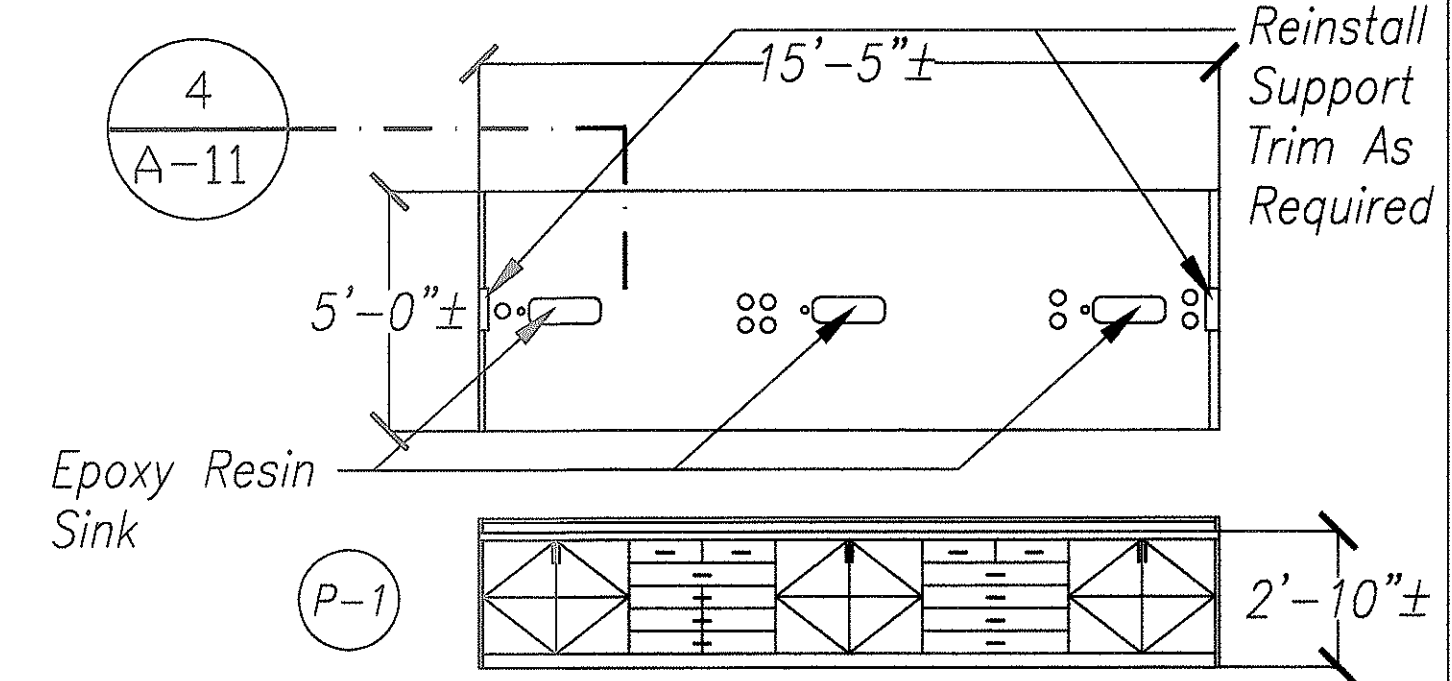
5 COUNTER TOP #5
Scale 1/4" = 1'-0"



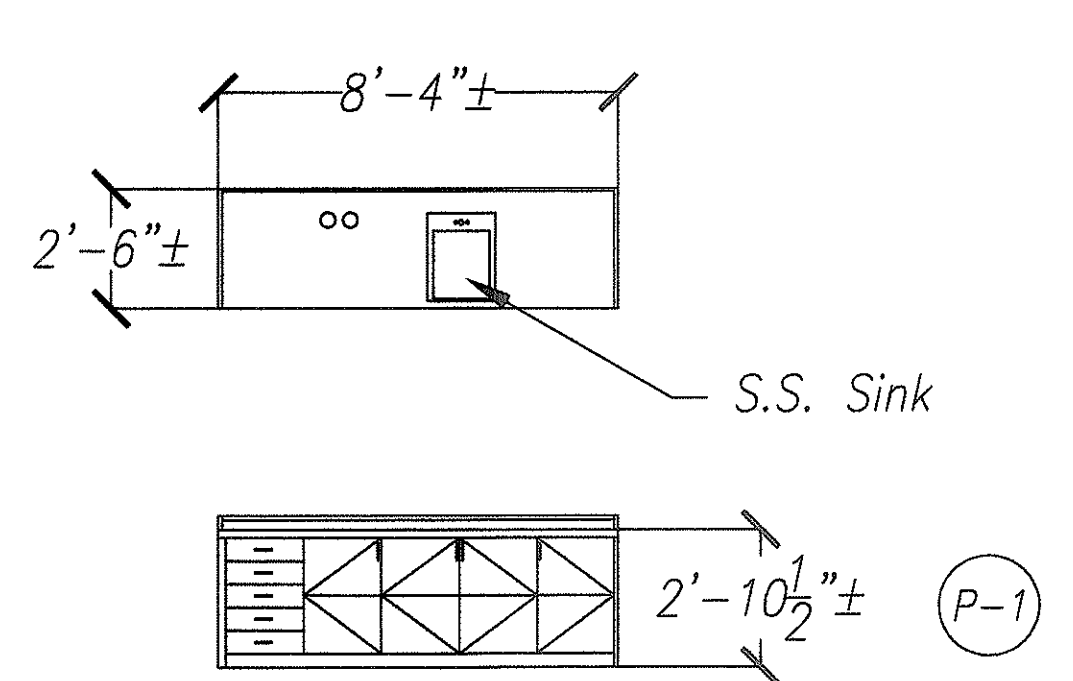
2 COUNTER TOP #2
Scale 1/4" = 1'-0"



14 COUNTER TOP #14
Scale 1/4" = 1'-0"



10 COUNTER TOP #10
Scale 1/4" = 1'-0"



6 COUNTER TOP #6
Scale 1/4" = 1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	4/30/00
CHECKED BY	
NOTED BY	
NO.	

(P-1) Matte Black
 Paint All Surfaces Exposed To View Including Doors, Panels And Draws.

A-8

6/19/00 Revised Notes.

DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CABINET & COUNTER TOP SCHEDULE
 BUILDING RENOVATION - MISCELLANEOUS
 MATERIALS TESTING & RESEARCH BRANCH
 Project No. HWY-0-02-00M

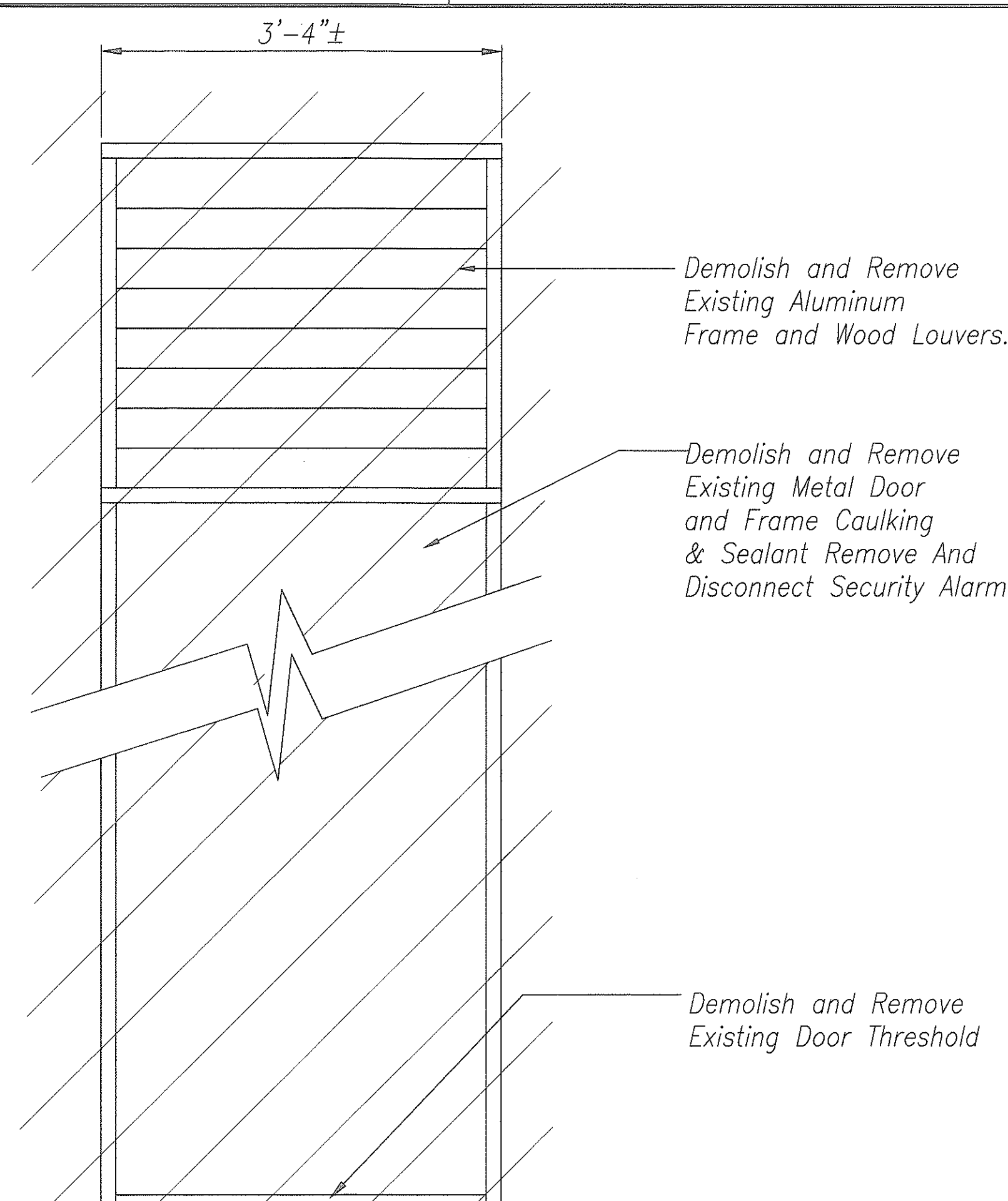
Scale: Date: MAY, 2000

SHEET No. 11 OF 22 SHEETS

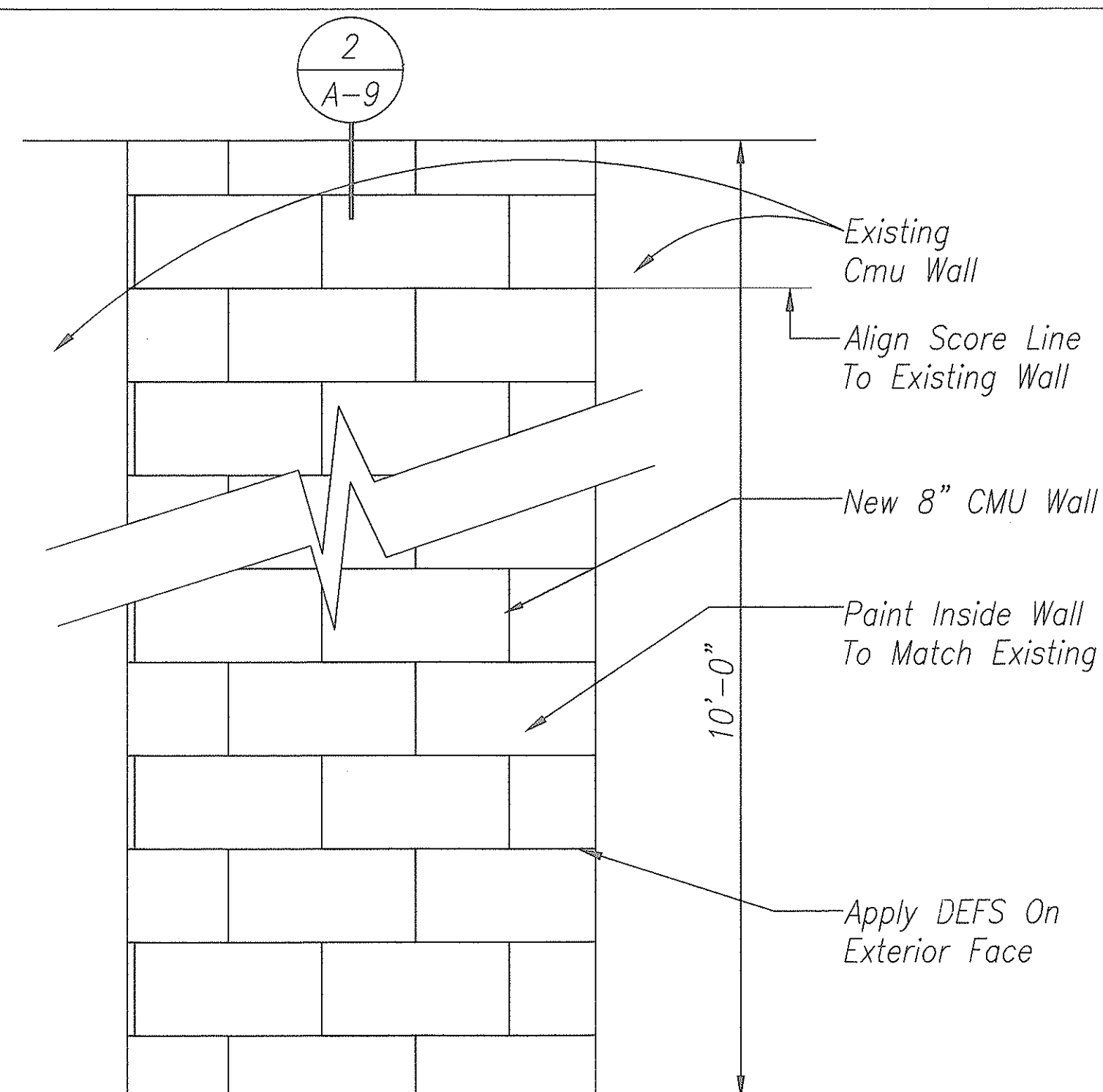


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

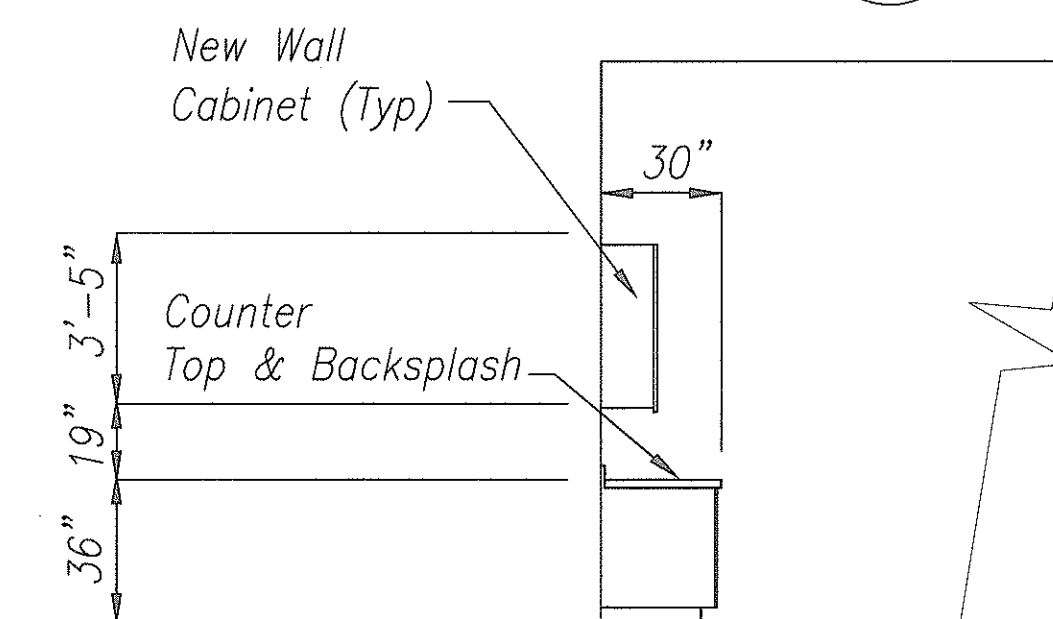
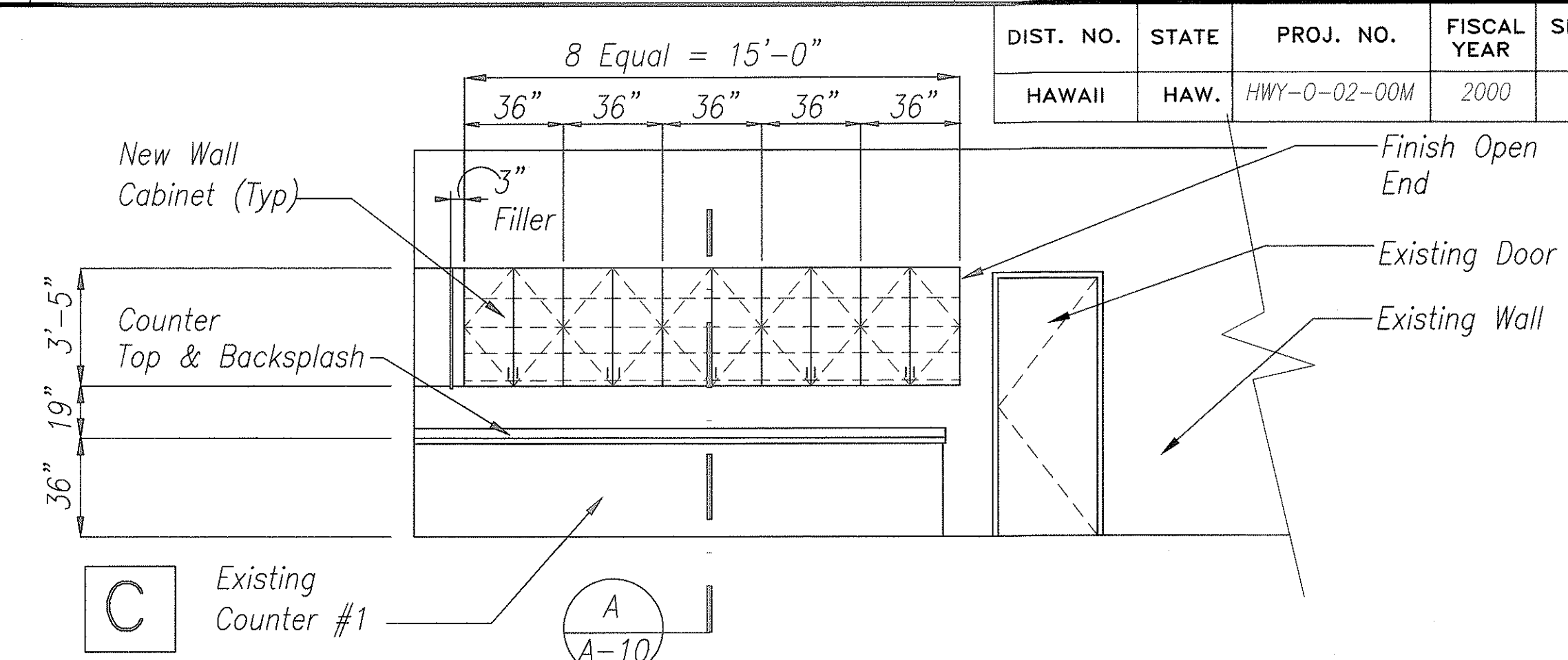
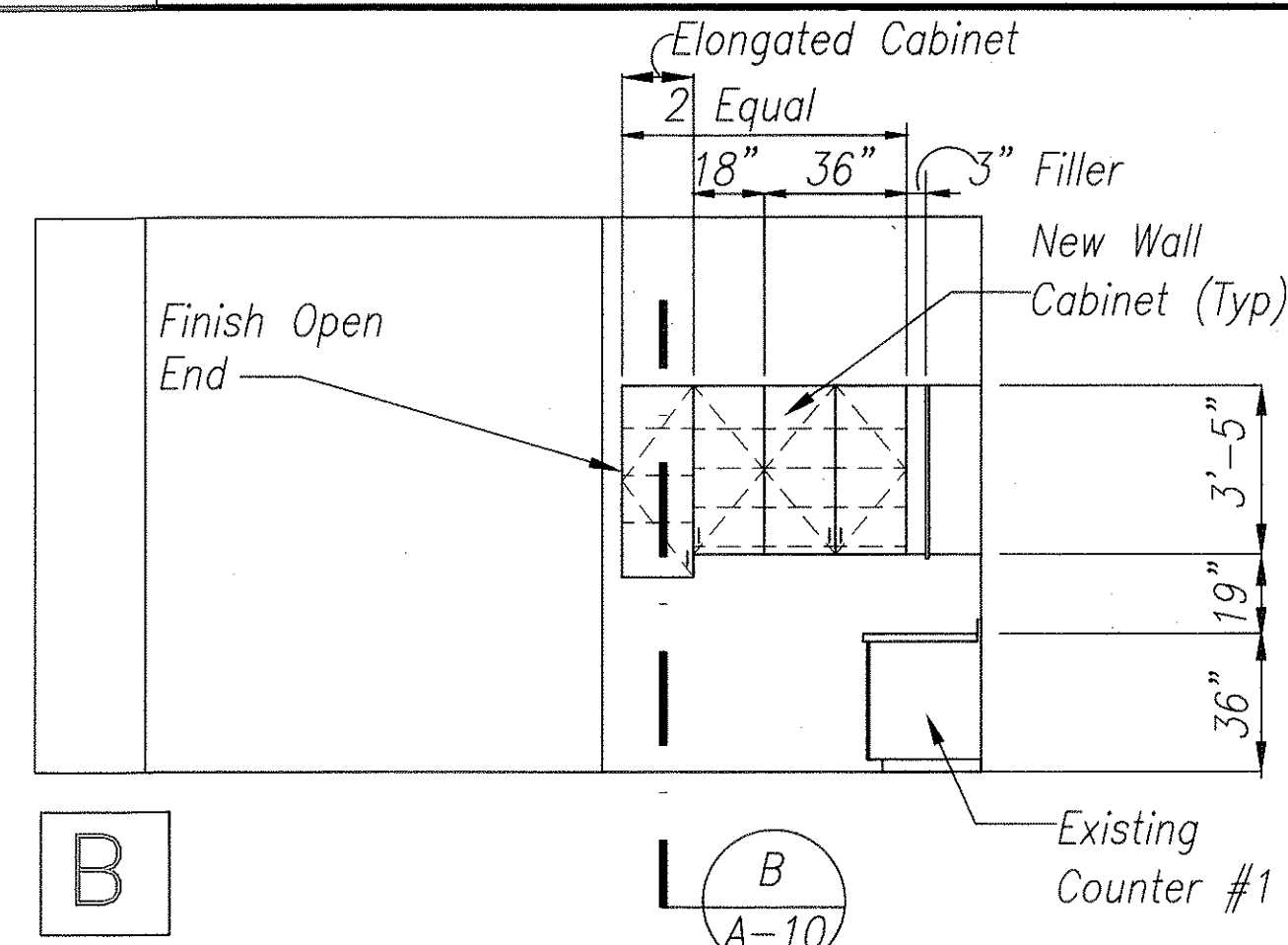
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	12	22



3 EXISTING DOOR ELEVATION
A-9 SCALE: 1/2" = 1'-0"



4 RENOVATED DOOR ELEVATION
A-9 SCALE: 1" = 1'-0"

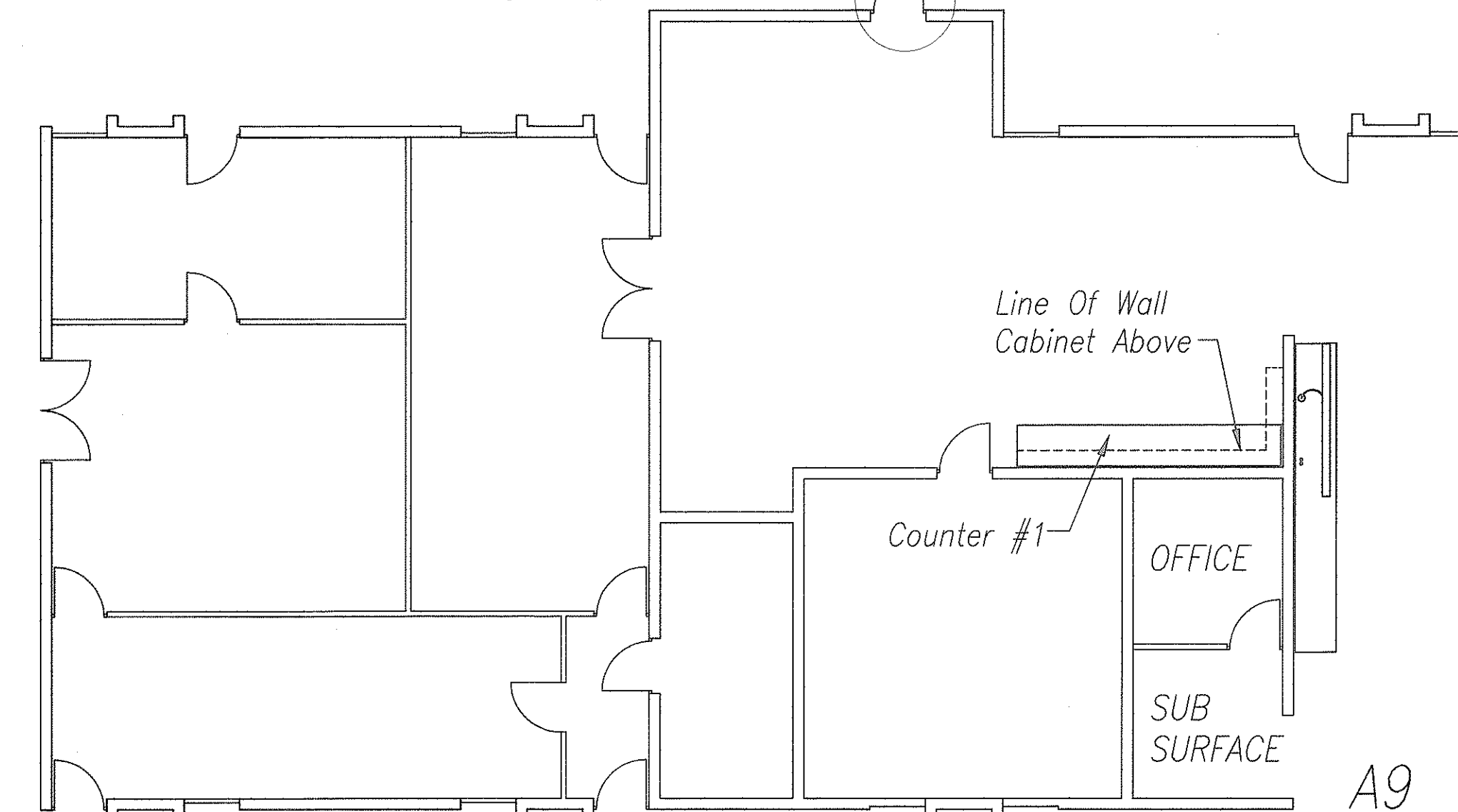


D WALL CABINET ABOVE COUNTER #1
ELEVATIONS SCALE: 1/4" = 1'-0"

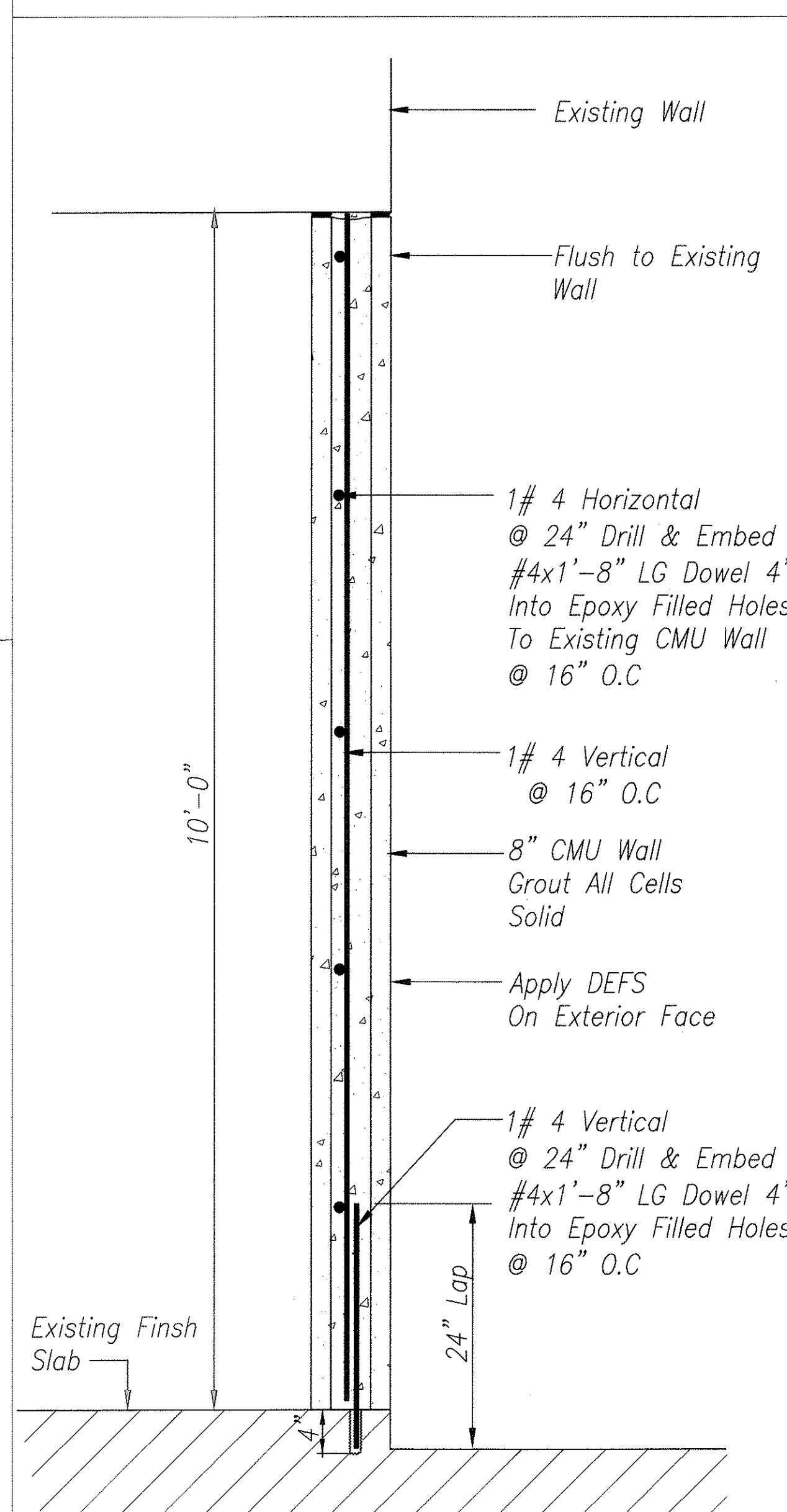
Demolish & Remove Metal Door, & Frame, & Aluminum Threshold.

See Sheet 3 A-9 4 A-9

Demolish & Remove Wood Louvers, & Aluminum Frame Above Door.



1 PLAN
A-9 Not To Scale



2 WALL SECTION #1
A-9 SCALE: 1" = 1'-0"

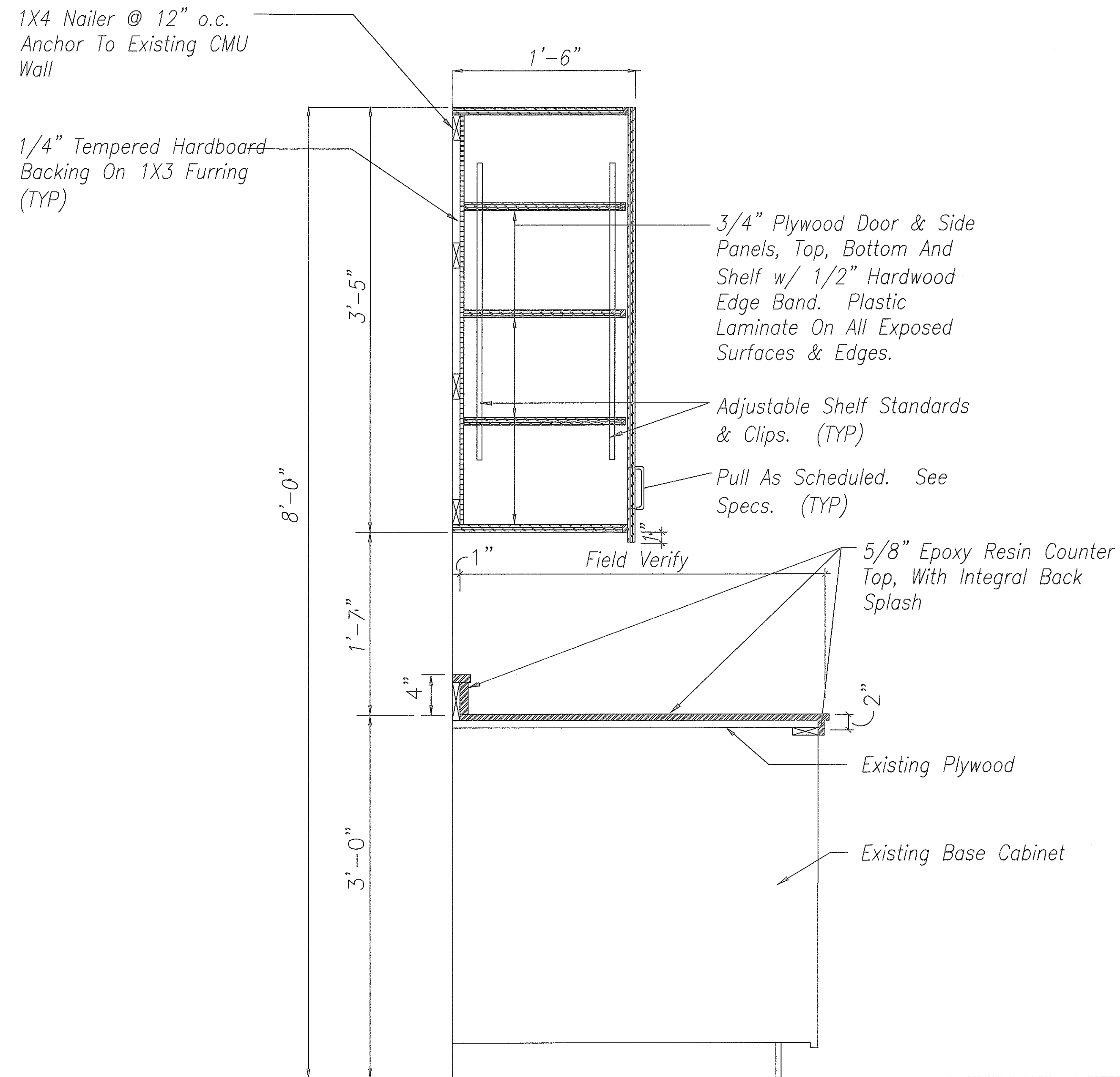
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	M. Fitzgerald	4/30/00
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	L. Chan	
CHECKED BY	L. Chan	
No.		



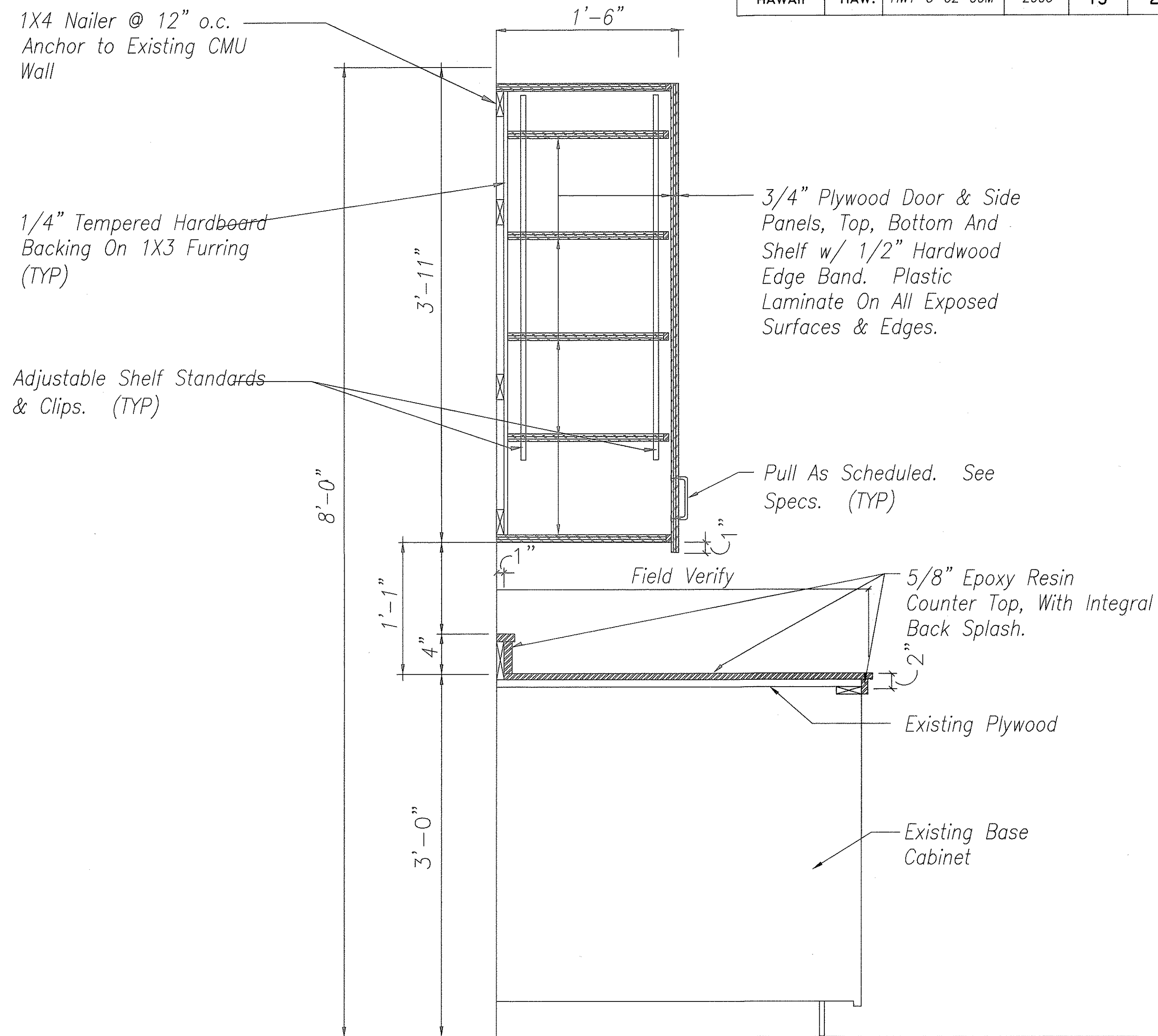
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WALL ENCLOSURE & WALL MOUNTED
CABINET DETAILS
BUILDING RENOVATION - MISCELLANEOUS
MATERIALS TESTING & RESEARCH BRANCH
Project No. HWY-0-02-00M
Scale: Date: MAY, 2000
SHEET No. 12 OF 22 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	13	22



A TYPE A CABINET DETAILS
Scale $1\frac{1}{2}" = 1'-0"$



B TYPE B CABINET DETAILS
Scale $1\frac{1}{2}" = 1'-0"$

COUNTER TOP NOTE:

1. Approximate Sizes And Conditions Of Base Cabinet And Counter Top Are Shown In Sheet A-8 - (Cabinets And Counter Top Schedules). Contractor Shall Field Verify And Measure Each And Every Individual Counter Top and Back Splash Sizes, Location And Opening Size Of Each Sinks, Air, Gas, Water And Other Penetrations. Submit Shop Drawing For Approval Prior To Any Fabrication.

2. All Epoxy Resin Counter Top Shall Be Acid And Impact Resistant, One Continuous Seamless Piece Construction, Back Splash Shall Be Integral With Counter Top.

3. Prior To The Installation Of Counter Top, Contractor Shall Re-Finish Existing Plywood Surfaces. Patch & Repair Holes And Damage. To Provide A Solid And Smooth Backing. Provide New Cut Out And/Or Adjust Existing Cut Out To Accommodate Pplings And Sinks And Electrical Data As Requested By The Material Testing Lab.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

A-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

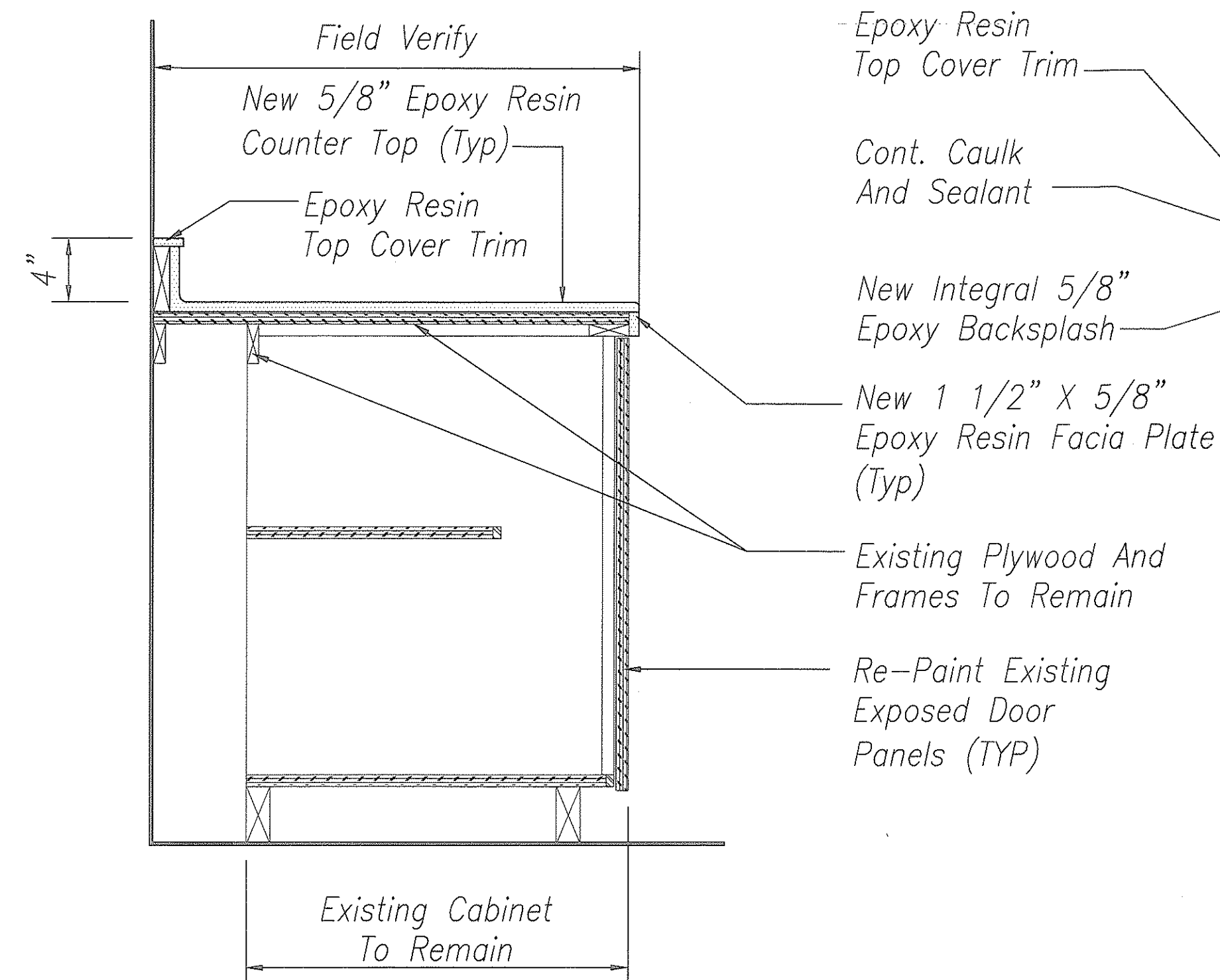
WALL MOUNTED CABINET DETAILS

BUILDING RENOVATION - MISCELLANEOUS
MATERIALS TESTING & RESEARCH BRANCH
Project No. HWY-0-02-00M

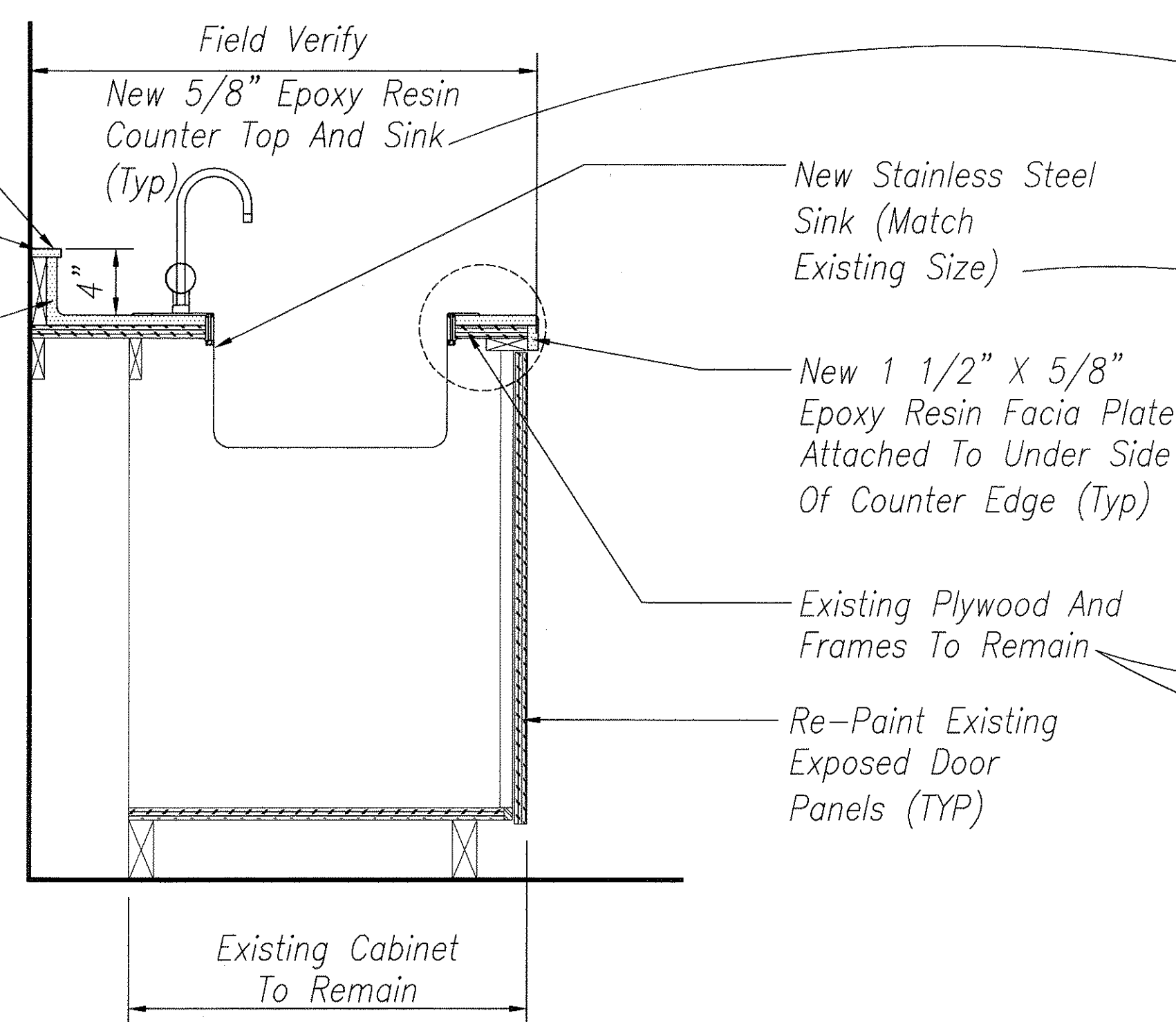
Scale: Date: MAY, 2000

SHEET No. 13 OF 22 SHEETS

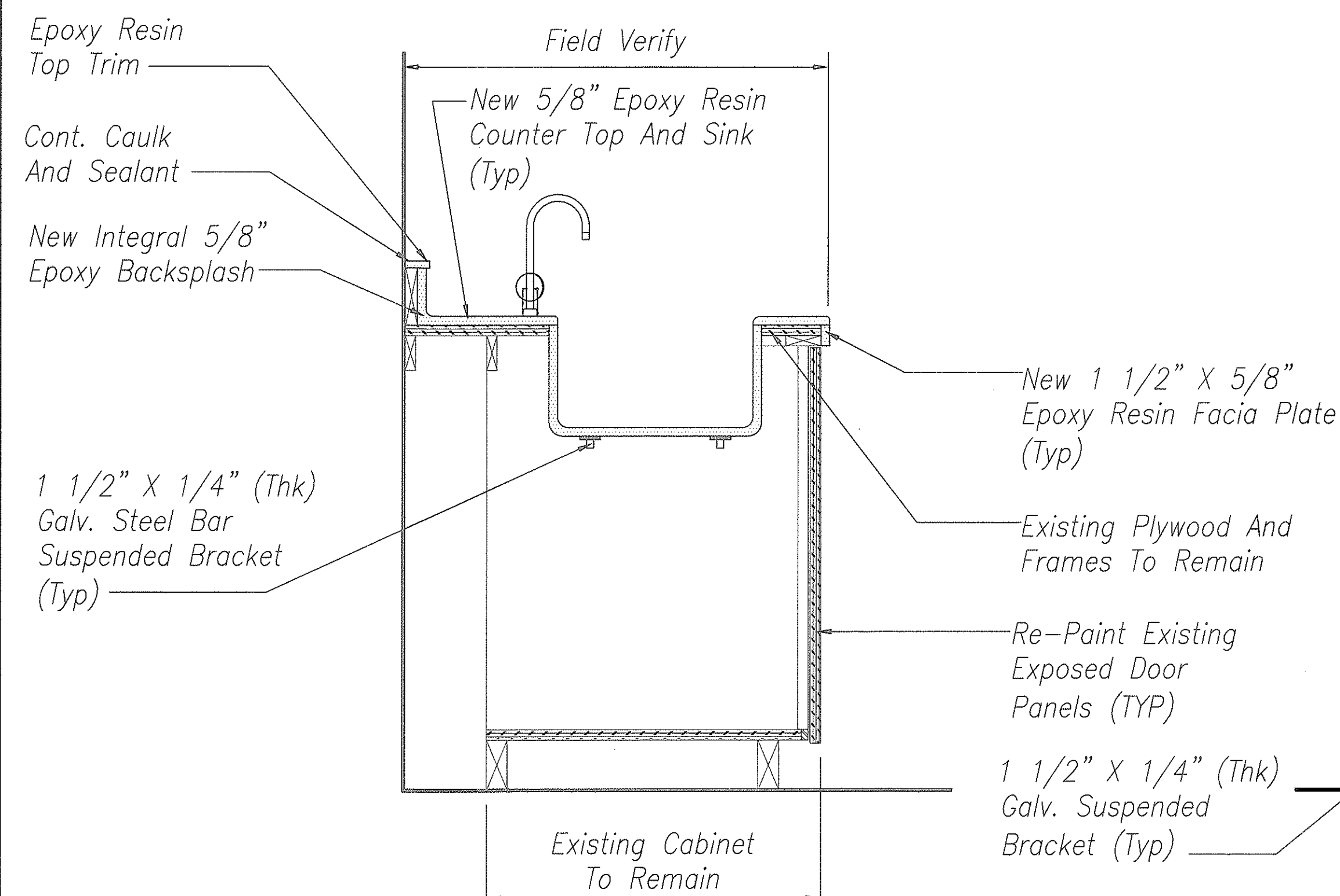
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-00M	2000	14	22



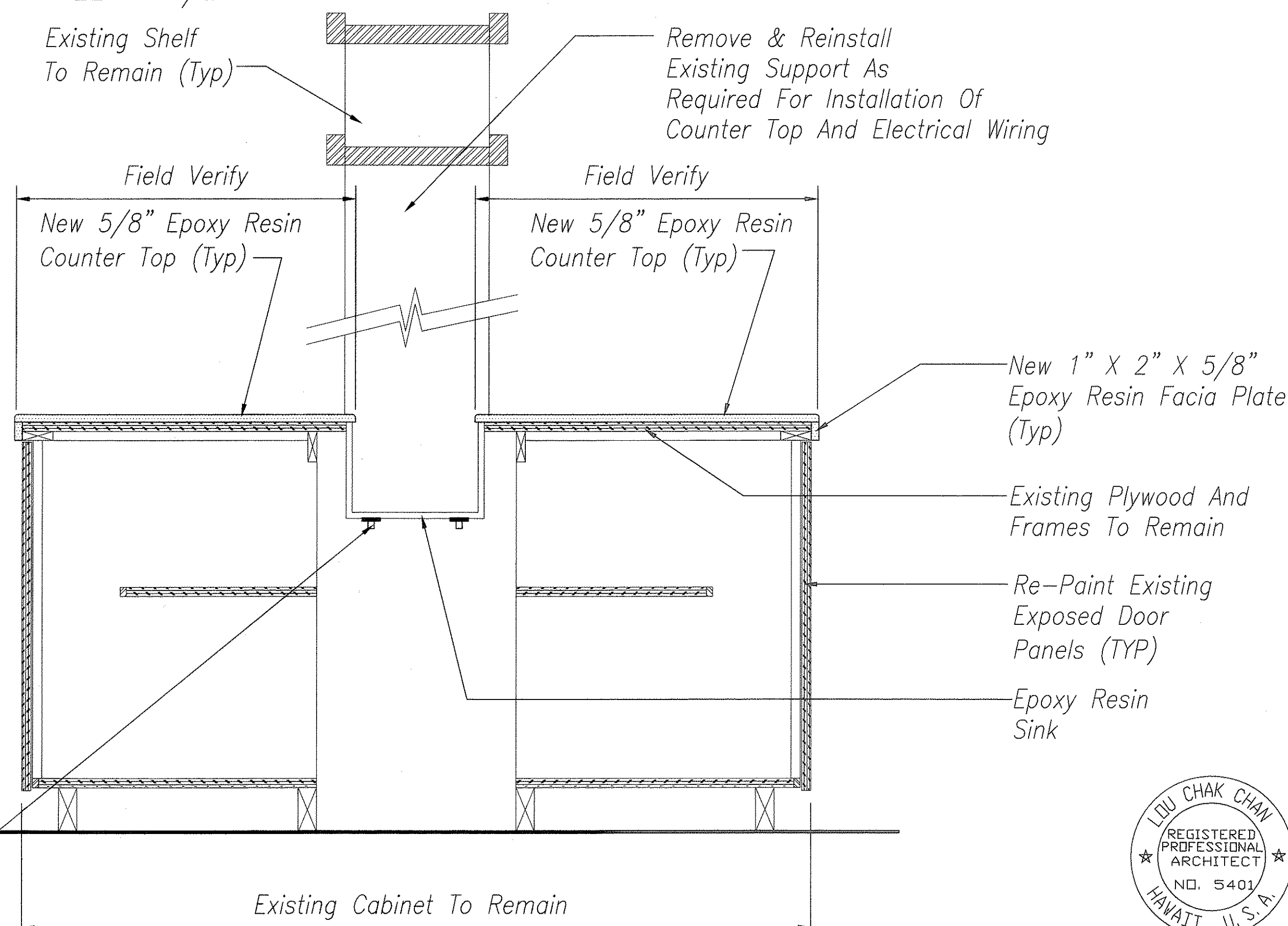
1 COUNTER TOP CONDITION
A-11 SCALE 1 1/2" = 1'-0"



2 STAINLESS STEEL SINK CONDITION
A-11 SCALE 1 1/2" = 1'-0"



3 EPOXY RESIN SINK CONDITION
A-11 SCALE 1 1/2" = 1'-0"

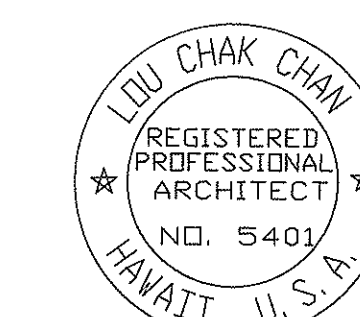


4 DOUBLE COUNTER TOP CONDITION
A-11 SCALE 1 1/2" = 1'-0"

New 1 1/2" X 5/8" Epoxy Resin Facia Plate Attached To Under Side Of Counter Edge (Typ)
Re-Paint Existing Exposed Door Panels (TYP)

See Note On Sheet A-10 For Counter Top Wall Cabinets & Counter Top Size And Details

A11



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature]

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
BASE CABINET AND COUNTER SECTIONS
BUILDING RENOVATION - MISCELLANEOUS
MATERIALS TESTING & RESEARCH BRANCH
Project No. HWY-0-02-00M
Scale: Date: MAY, 2000
SHEET No. 14 OF 22 SHEETS