

|                     |       |             |             |           |              |
|---------------------|-------|-------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 56        | 82           |

GENERAL NOTES

- Contractor shall verify all dimensions and existing conditions before commencing work. Any discrepancies and/or inconsistencies shall be reported to the Contracting Officer for clarification.
- It shall be the Contractor's responsibility to provide adequate temporary shoring and bracing of the structure for all loads imposed upon it during construction.
- All materials and workmanship shall conform to the Uniform Building Code, 1997 Edition, and its amendments.
- Where specific catalog numbers, products, or trade names are indicated substitution of an equal or better product may be allowed. Contractor shall submit a request for substitution stating any variant features along with catalog or test data to the Contracting Officer for approval prior to use in the work. If such request is not approved, Contractor shall provide the product indicated at no additional cost to the State.

Basic Design Loads

Dead load: Actual Weight of Materials

Live Loads

Roof: 20 psf

Floor: Office Building 50 psf or 2,000 lb. concentrated load  
Equipment Storage Areas 125 psf  
Vehicle Garage 100 psf or H15-44 truck wheel loads  
Washdown Facility 100 psf or HS20-44 truck wheel loads  
Exterior Pavements HS20-44 truck wheel loads

Wind: Basic Wind Speed = 80 mph, Exposure Category D (UBC 97)

Seismic: Zone 2A (UBC 97)

Foundation Notes

- Subgrade preparation and earthwork shall be in accordance with the recommendations of the "Geotechnical Engineering Exploration, Wahiawa Baseyard Improvements, Wahiawa, Oahu, Hawaii, T.M.K. 7-3-07:5 (W.O. 4711-00)" dated October 16, 2001 by Geolabs, Inc.
- Subgrade preparation and earthwork shall be observed by a qualified geotechnical engineer in order to verify that subsurface conditions and allowable bearing capacity are consistent with the findings of the soils report.
- Foundations shall rest on well compacted material. Soft spots or expansive clayey soil shall be removed and replaced with compacted select granular backfill material.
- Soil values as reported in the soils report and used for design are as follows:

Allowable Soil Bearing Pressure = 2,500 psf  
Coefficient of Soil Friction = 0.4  
Passive Earth Pressure = 300 psf/ft  
Modulus of Subgrade Reaction = 200 pci

Concrete

- Concrete work shall conform to the "Building Code Requirements for Structural Concrete (ACI 318-99)" unless otherwise noted.
- Concrete shall be normal weight, ready mixed concrete conforming to ASTM C94 with minimum 28 day compressive strength (f'c) as listed below:

| Location                   | Compressive Strength (f'c) | Slump    |
|----------------------------|----------------------------|----------|
| Concrete Slabs & Pavements | 4,000 psi                  | 2" to 3" |
| Other Structural Concrete  | 3,000 psi (Class A)        | 3" to 4" |
| Nonstructural Concrete     | 2,500 psi (Class B)        | 3" to 4" |

Aggregates shall conform to ASTM C33 with a maximum size of 1". A water reducing, and/or water reducing and set retarding admixture conforming to ASTM C494, Type A or D shall be used in all concrete.

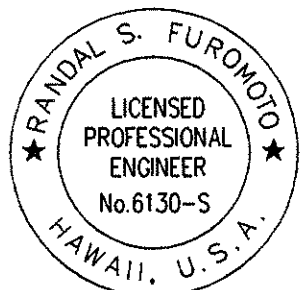
- Reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60, except stirrups and ties which may be Grade 40 or 60. Lap bars 40 bar diameters at splices unless shown otherwise. Stagger splices wherever possible.
- Construction joints shall be located as shown, or if not specifically shown, shall be located by the Contractor subject to the approval of the Contracting Officer. They shall be so located as to least impair the strength of the structure and to minimize shrinkage stresses and cracking. Provide keyways and dowels as indicated or directed and thoroughly roughen and clean contact surfaces free of excess laitance and debris before proceeding with the next pour.

Concrete Masonry

- Concrete masonry units (CMU) shall be load bearing units conforming to ASTM C90 with normal weight aggregates. (f'm=1,500 psi) Provide special shapes and block types as required to complete the work. Refer to architectural drawings for types of blocks to be used. No special inspection required.
- Grout shall attain a minimum 28 day compressive strength of 2,500 psi.
- Mortar shall be Type M and attain a minimum 28 day compressive strength of 2,000 psi.
- Reinforcement grade, bar bends, laps, details, etc. shall be the same as for concrete walls.
- All CMU walls shall be solidly filled with grout. CMU walls shall be laid in running bond pattern unless otherwise indicated.
- Horizontal joint reinforcement shall be ladder or truss type consisting of two No. 9 gauge longitudinal wires and No. 9 gauge crosswires conforming to ASTM A82 and be galvanized.

Structural Steel

- Structural steel work shall conform to the "Specification for Structural Steel Buildings" by the AISC. Light-gage steel construction shall conform to the "Specification for the Design of Cold-formed Steel Structural Members" by the AISI. High strength bolting shall conform to the "Specification for Structural Joints Using ASTM A325 and A490 Bolts" by the AISC.
- Structural steel plates and shapes 1/8" or thicker shall conform to ASTM A36.
- Light-gage steel less than 1/8" thick shall conform to ASTM A653, Grade 50 for 16 gauge or thicker members, and Grade 33 for members thinner than 16 gauge. All light-gage steel items shall be galvanized with G60 or thicker coating.
- Machine bolts and anchor bolts shall conform to ASTM A307 and be galvanized. High strength bolts for purlin connections shall conform to ASTM A325 and be galvanized. All high strength bolts shall be pretensioned during installation.
- All welding shall conform to the "Structural Welding Code (AWS D1.1)" of the American welding society and be performed by AWS certified welders. Components shall be fabricated and assembled in the shop to the fullest extent practicable in order to minimize field welding.
- Metal decking shall be 1-1/2" deep, 22 gauge, Type "F" intermediate rib galvanized steel decking conforming to ASTM A653, Grade 33 or higher, with Class G60 galvanized coating. Metal decking shall be installed in accordance with the Steel Deck Institute and metal deck manufacturer's specifications and recommendations. Panels shall be installed perpendicular to supports and continuous wherever possible. Provide manufacturer's standard accessories as required to complete the installation. Submit manufacturer's specifications and recommendations, and shop drawings for review prior to fabrication of deck units. Fasten decking to end and intermediate supports with #12 screws at 6" o.c. (at each valley). and at side laps or edges with #10 screws at 8" o.c.
- Metal roofing system shall be a 24 gauge, 1-3/4" deep by 12" wide, standing seam metal roofing system. (See Specs) Metal roofing shall be fastened to the metal deck with self tapping screws and galvanized steel clips, and furnished complete with ridge and hip flashings, preformed closures, etc. by the roofing manufacturer.
- Non-shrink grout for base plates shall be a prepackaged cementitious grout material conforming to ASTM C1107 and developing a minimum compressive strength of 1,000 psi in 24 hours and 5,000 psi at 28 days. Non-shrink grout shall be mixed and applied in accordance with manufacturer's printed instructions.



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES

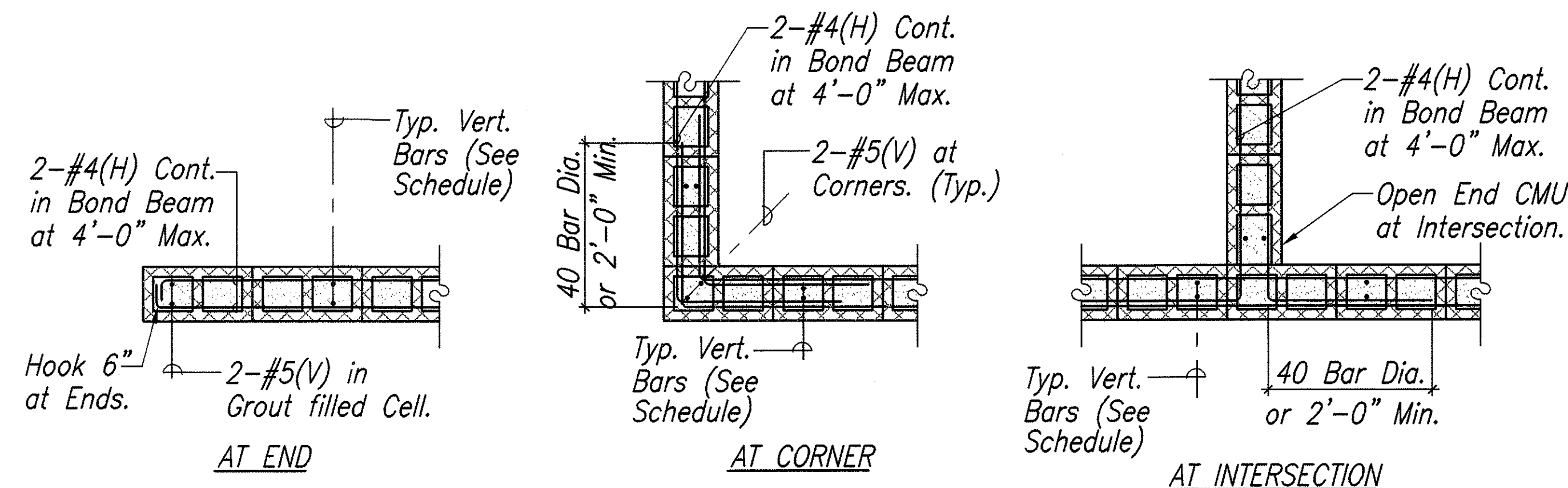
Wahiawa Baseyard  
Improvements

Project No. HWY-0-12-00

Scale: AS SHOWN Date: JAN 2003

SHEET No. S1.01 OF 82 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 57        | 82           |

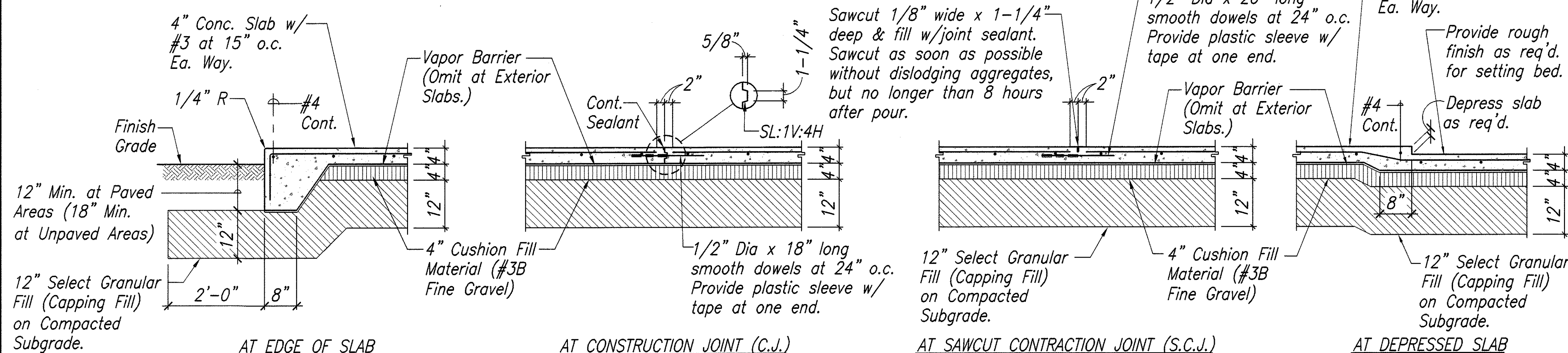


| CMU Wall Reinforcement Schedule |                    |
|---------------------------------|--------------------|
| Nominal Wall Thickness          | Typ. Vertical Bars |
| 6"                              | 1-#4 at 24" o.c.   |
| 8"                              | 2-#4 at 24" o.c.   |
| 12"                             | 2-#4 at 16" o.c.   |

Note: Provide horizontal joint reinf. between bond beams at 16" o.c. Grout all cells solidly with grout.

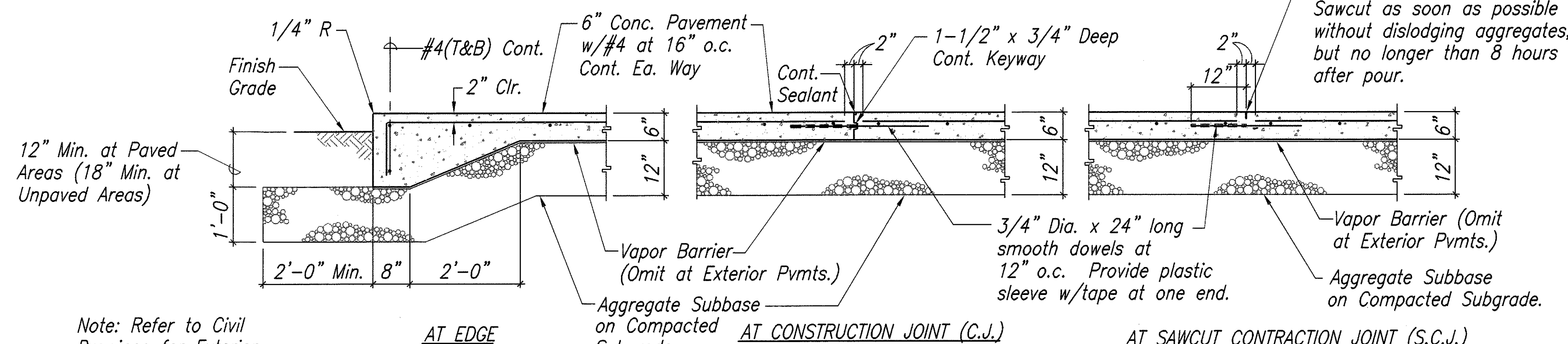
### 8" CMU WALL DETAILS AT BOND BEAM

Scale: 3/4"=1'-0" (6" & 12" CMU WALLS SIMILAR)



### 4" CONCRETE SLAB-ON-GRADE DETAILS

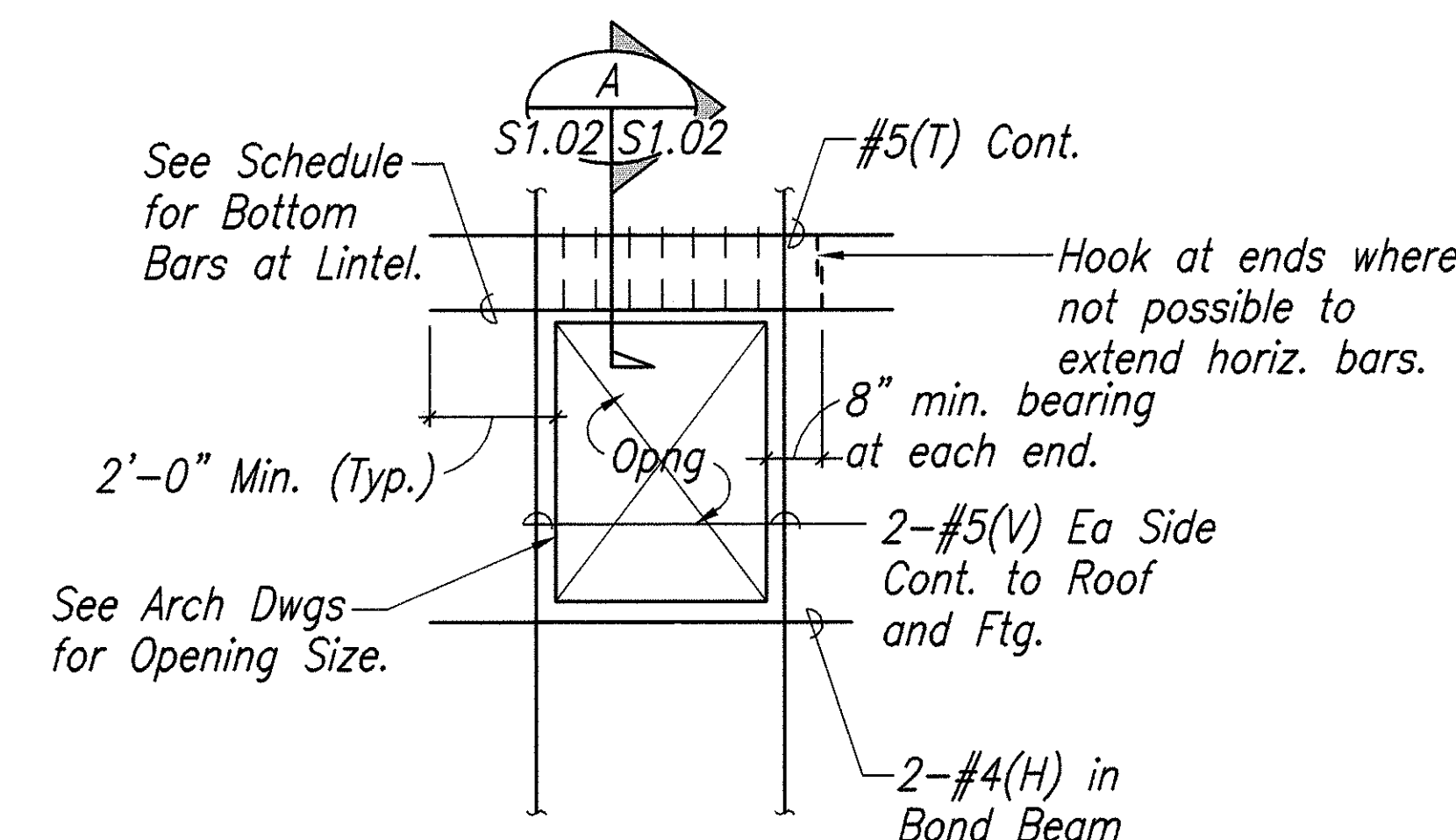
Scale: 3/4"=1'-0" (AT NON-VEHICLE TRAFFIC AREAS)



Note: Refer to Civil Drawings for Exterior Pavements.

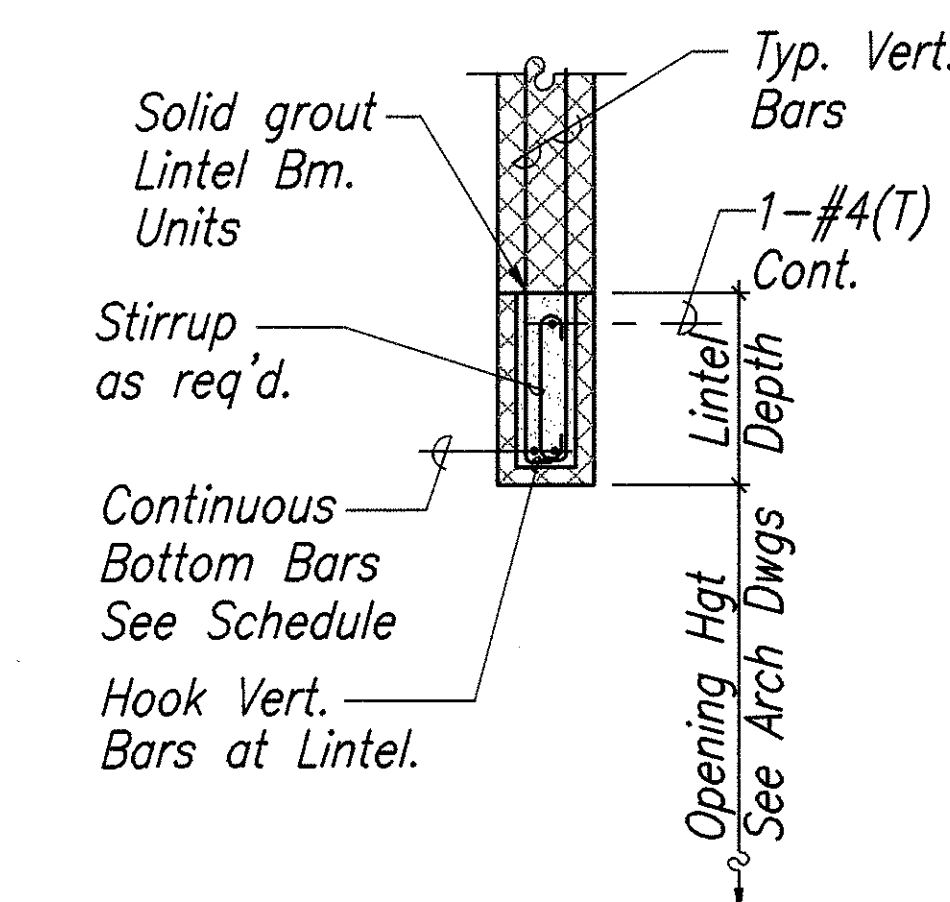
### 6" CONCRETE PAVEMENT DETAILS

Scale: 3/4"=1'-0" (SLABS SUBJECT TO VEHICLE LOADING)



### DETAIL-TYPICAL OPENING IN CMU WALL

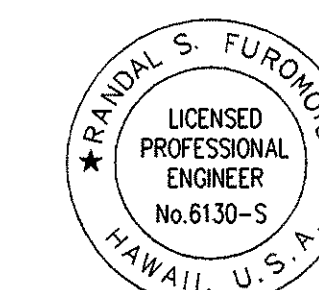
Scale: 3/4"=1'-0"



### LINTEL SECTION

Scale: 3/4"=1'-0"

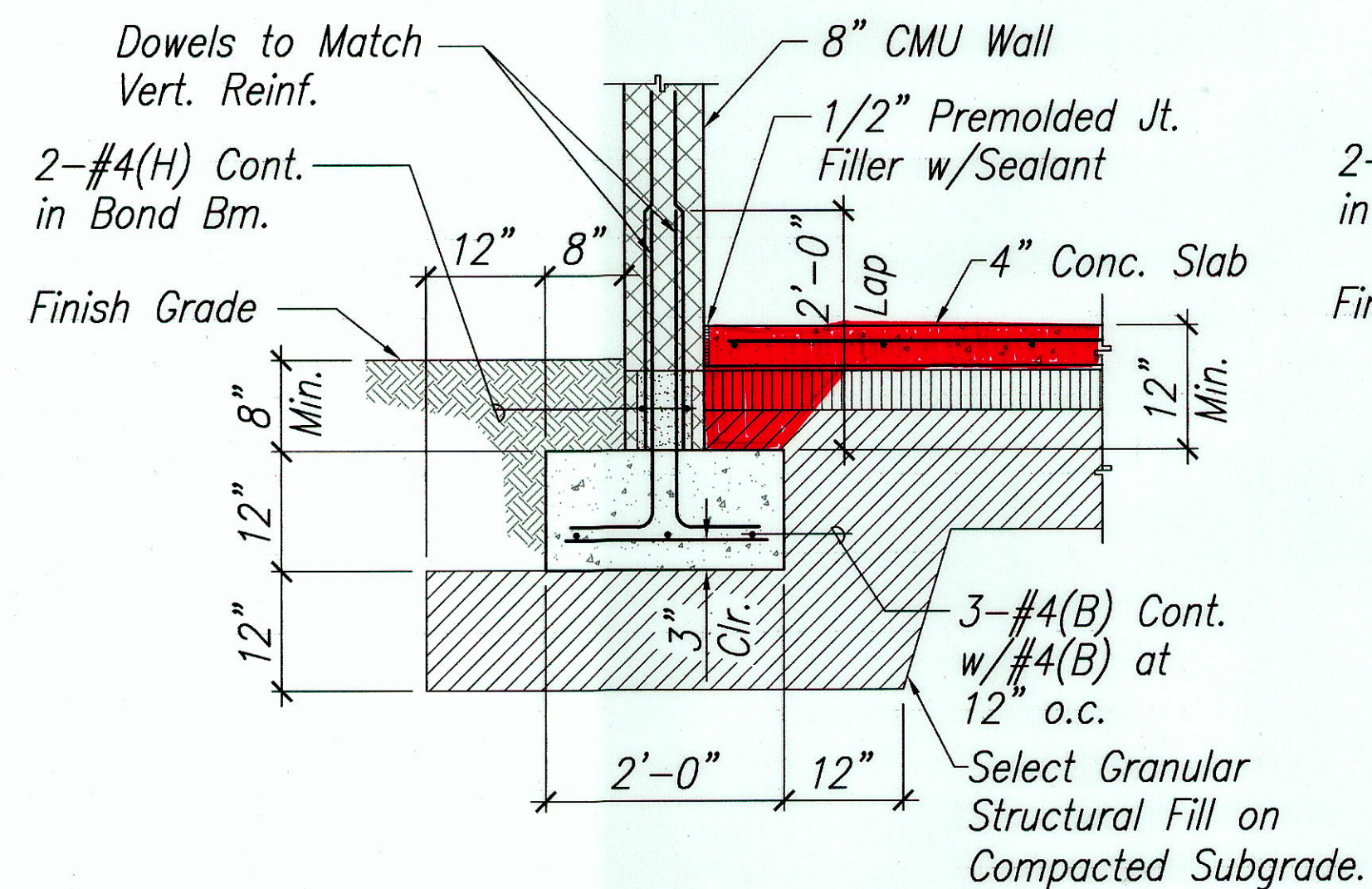
|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| XX                |      |
| No.     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



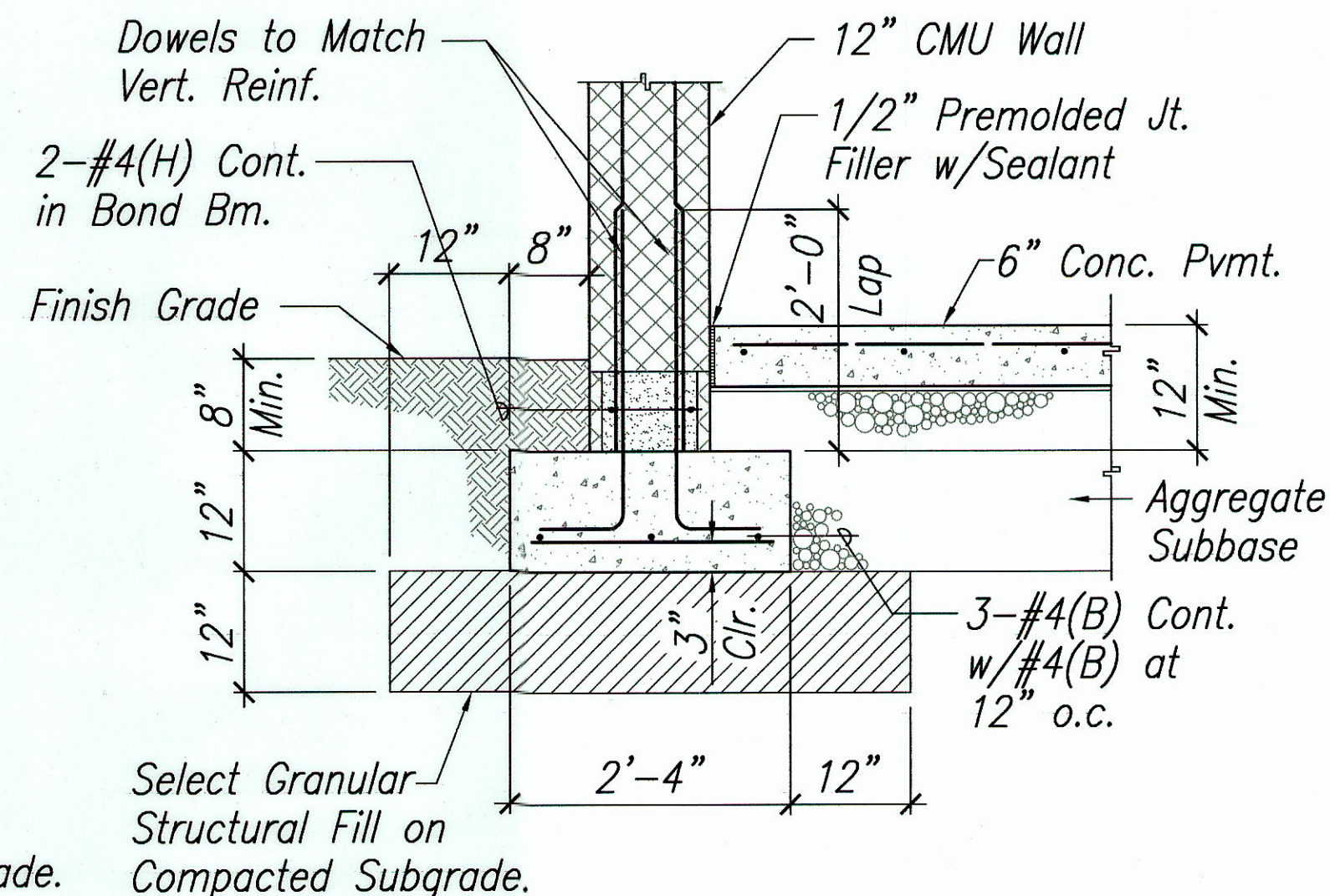
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
Signature

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |                |
| TYPICAL SECTIONS & DETAILS                                           |                |
| WAHIAWA BASEYARD<br>IMPROVEMENTS                                     |                |
| Project No. HWY-0-12-00                                              |                |
| Scale: AS SHOWN                                                      | Date: JAN 2003 |
| SHEET No. S1.02 OF 82 SHEETS                                         |                |

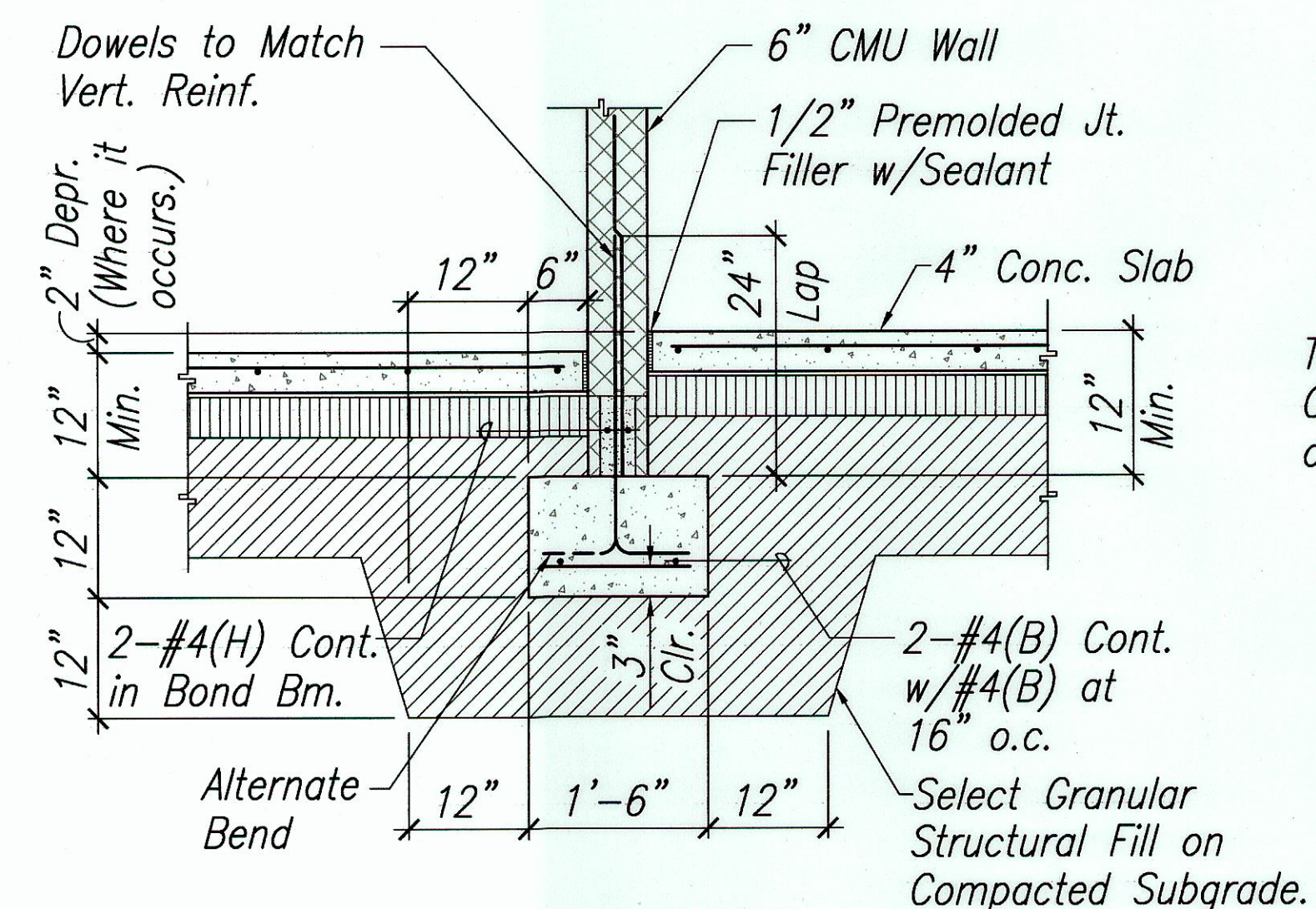
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | C.O. 58   | 82           |



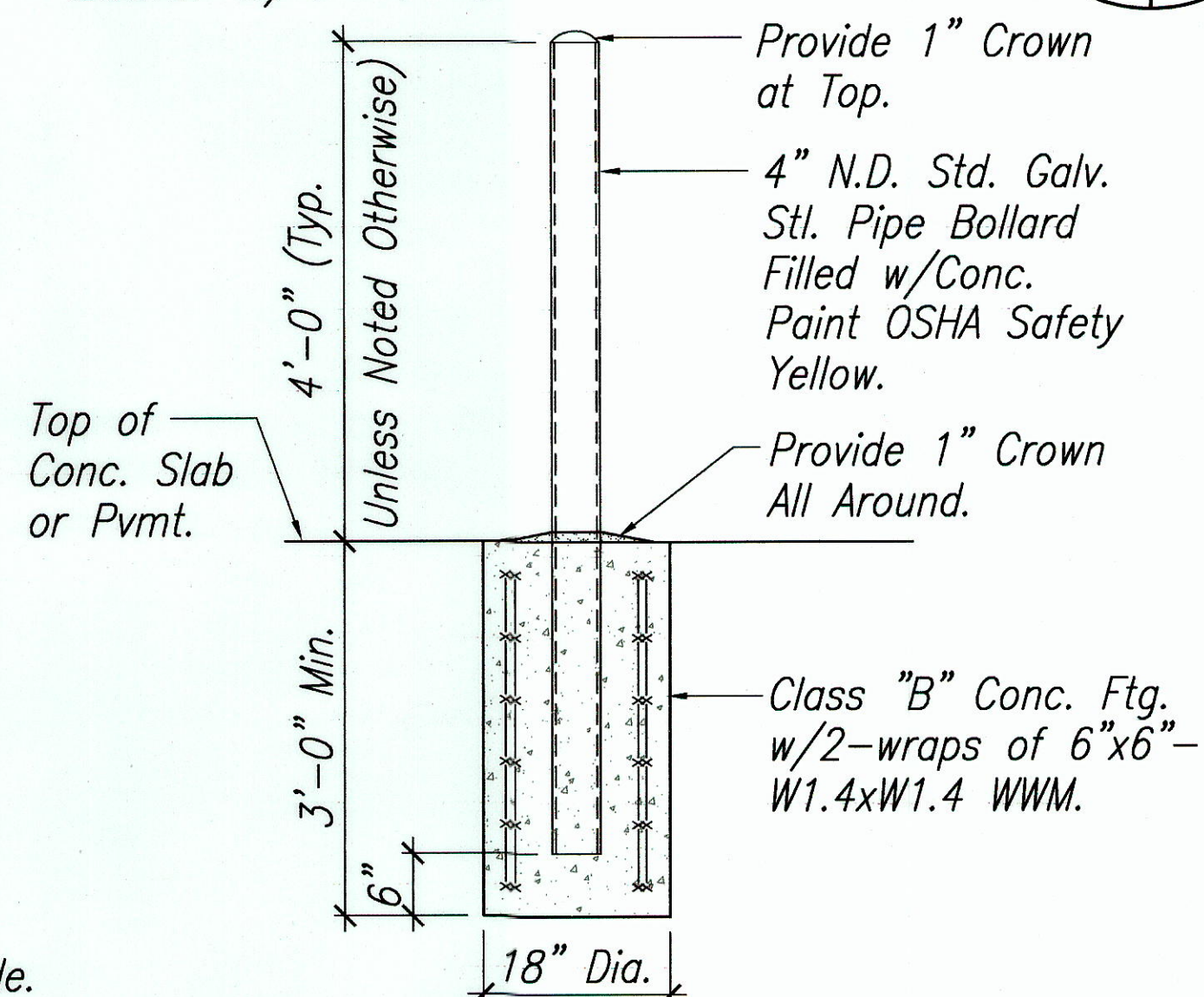
**WALL FOOTING (WF-1)** 1  
Scale: 3/4"=1'-0" S1.03 | S1.03



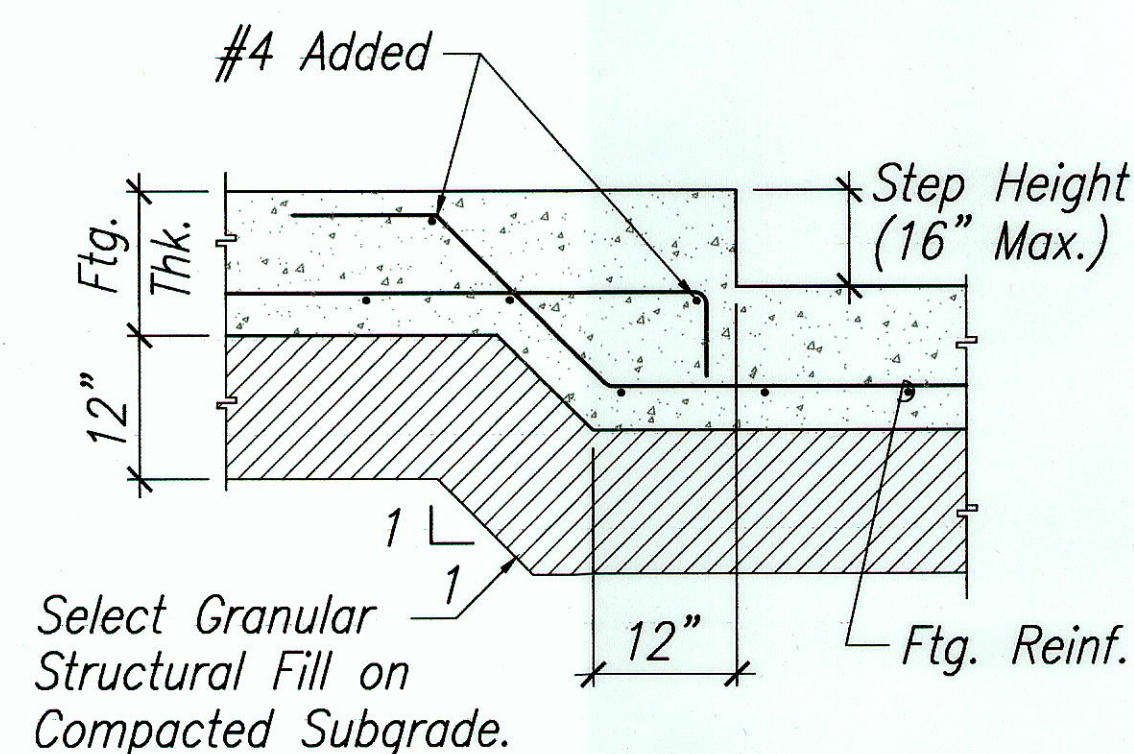
**WALL FOOTING (WF-2)** 2  
Scale: 3/4"=1'-0" S1.03 | S1.03



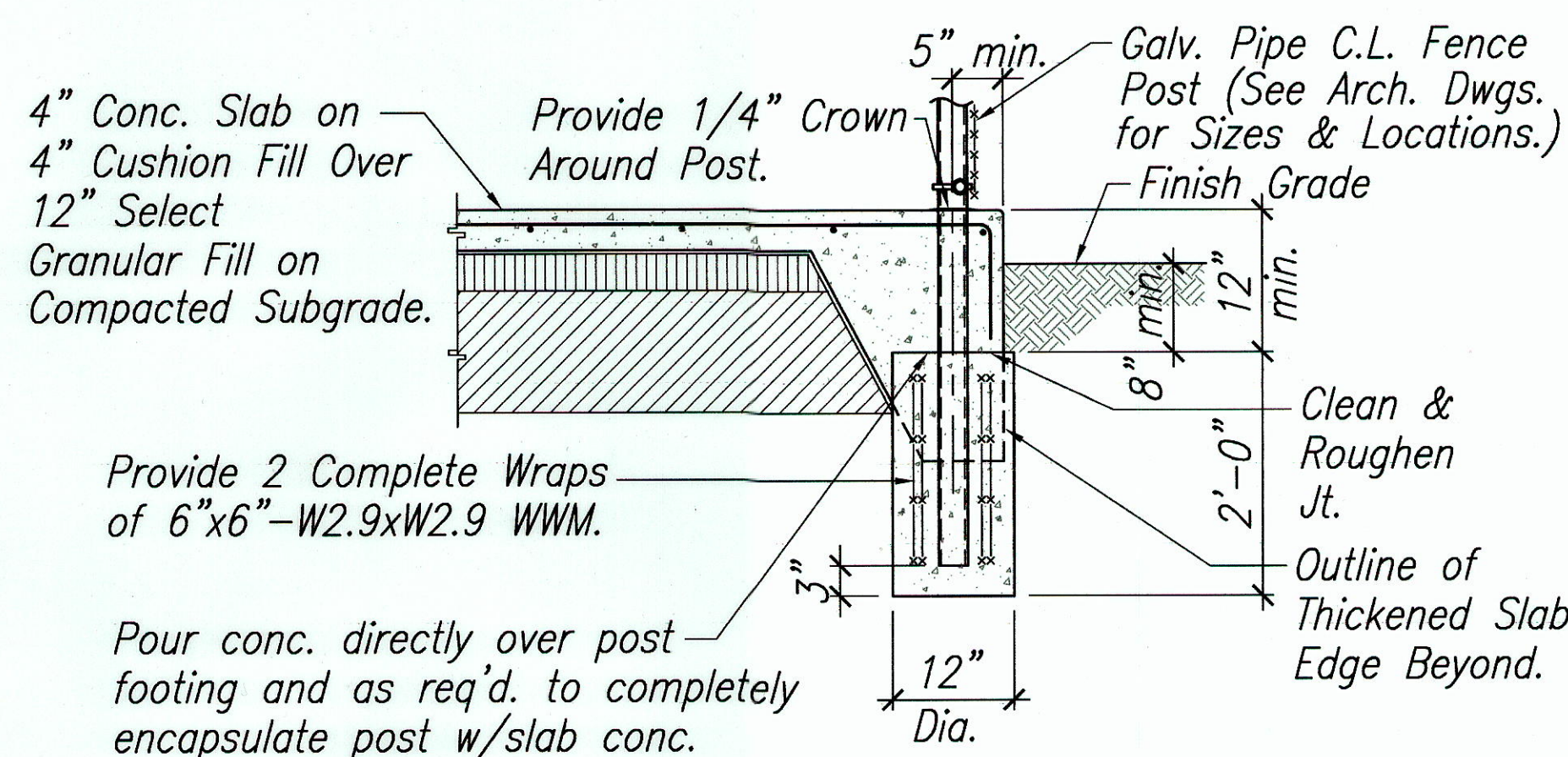
**WALL FOOTING (WF-3)** 3  
Scale: 3/4"=1'-0" S1.03 | S1.03



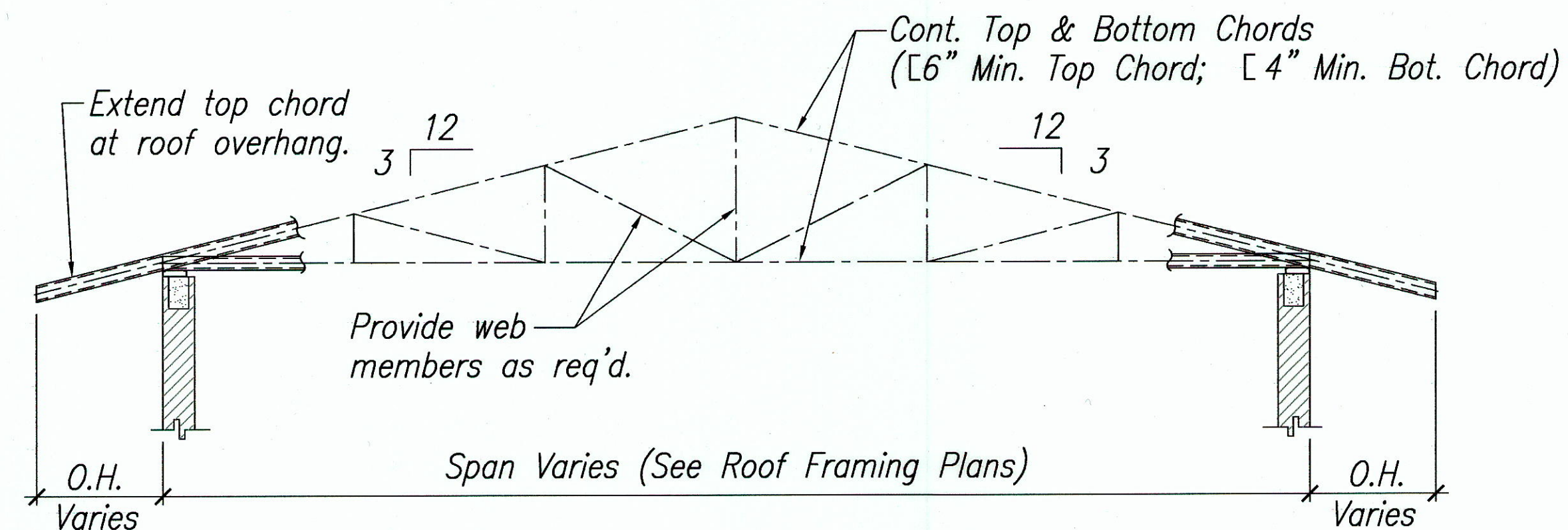
**PIPE BOLLARD DETAIL** 4  
Scale: 3/4"=1'-0" S3.02 | S1.03  
A3.01, S4.01



**STEP FTG. DETAIL** 5  
Scale: 3/4"=1'-0" S1.03 | S1.03



**FENCE POST FTG. DETAIL** 6  
Scale: 3/4"=1'-0" S3.02 | S1.03  
S4.01



Note: Provide other truss configurations as required. This truss shown for diagrammatic purposes only. Truss manufacturer may alter the truss style, chord spacing, etc. to suit his design.

**TYP. PRE-ENGINEERED TRUSS ELEVATION** 7  
Not to Scale S2.02 | S1.03  
S3.03, S3.04

**Preengineered Steel Truss Notes:**

- Preengineered steel trusses shall be fabricated out of light-gage galvanized steel. Refer to the Structural Steel notes on Sheet 1.01 for light-gage steel members.
- Trusses shall be fabricated and designed by a qualified truss manufacturer as evidenced by at least 3 years of successful experience in the design, fabrication, and installation of trusses similar to those required for this project.
- Contractor shall submit truss manufacturer's structural design computations and shop drawings for review prior to fabrication. Shop drawings shall include layout of trusses, truss configurations, member sizes, connection details, and bracing requirements. Structural computations and shop drawings shall be stamped by a professional structural engineer licensed in the State of Hawaii.
- Truss designs shall be based on the following minimum criteria:
  - Roof Dead Load (excluding self weight of trusses): 10 psf.
  - Roof Live Load: 20 psf.
  - Wind Load: Computed in accordance with UBC 97 using basic wind speed of 80 mph and Exposure Category D.
  - Seismic: Computed in accordance with UBC 97 for Seismic Zone 2A.
  - Load combinations shall be in accordance with UBC 97 Paragraph 1612.3.1 or 1612.3.2.
  - Maximum live load deflection shall be limited to 1/240 of the span length.
  - Total load deflection shall be limited to 1/180 of the span length.
- All materials necessary to complete the roof system shall be provided.
- Contractor shall submit truss structural design computations and two sets of shop drawings for review and approval to the Building Division of DPP prior to installation.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature

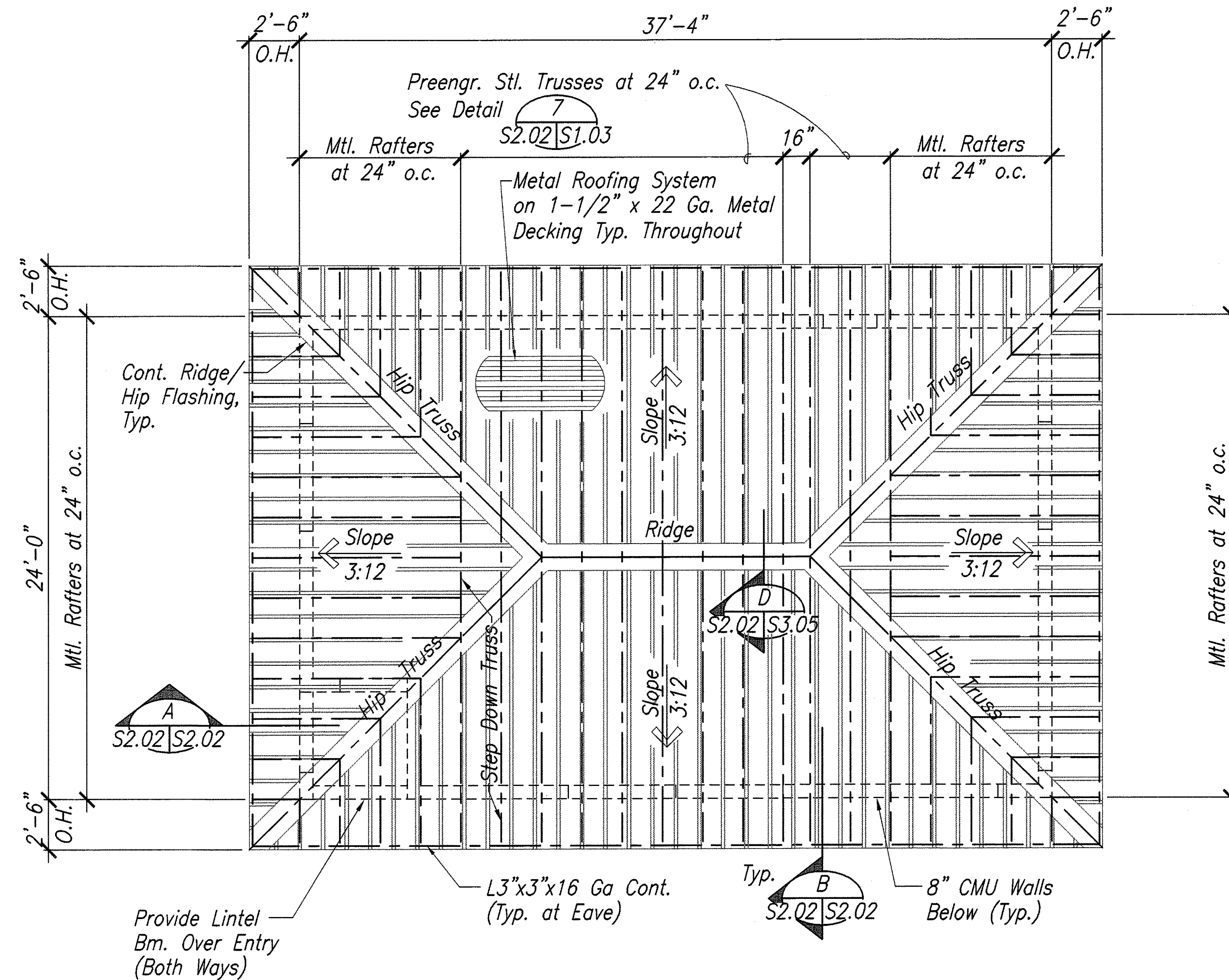
| 12/15/08                                                             | THIS SHEET REPLACES THE ORIGINAL SHEET 58 DATED JAN 2003. |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| DATE                                                                 | REVISION                                                  |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |                                                           |
| <b>TYPICAL SECTIONS &amp; DETAILS</b>                                |                                                           |
| WAIHAWA BASEYARD<br>IMPROVEMENTS<br>Project No. HWY-0-12-00          |                                                           |
| Scale: AS SHOWN                                                      | Date: JAN 2003                                            |
| SHEET No. S1.03 OF 82 SHEETS                                         |                                                           |

**"AS-BUILT"**

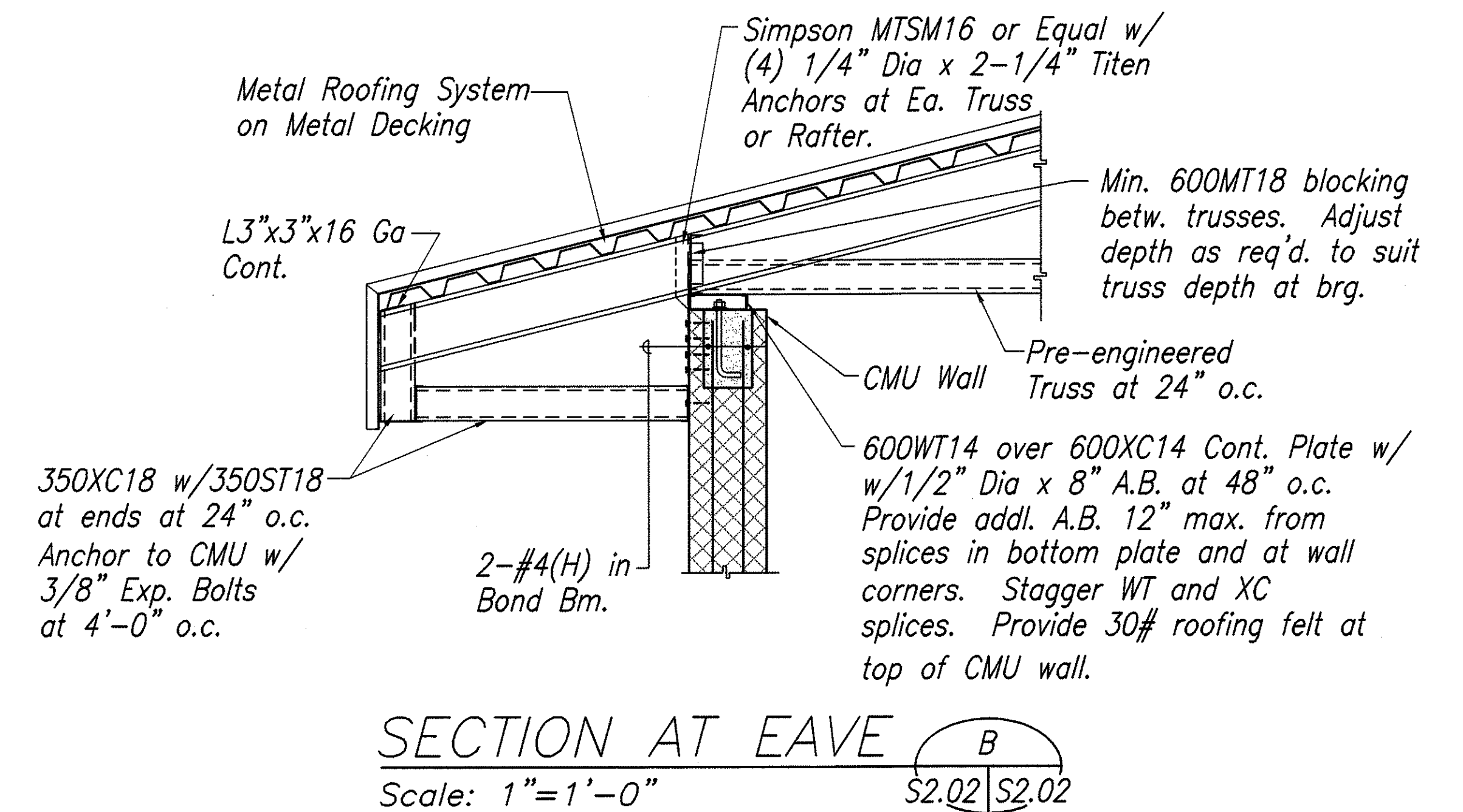
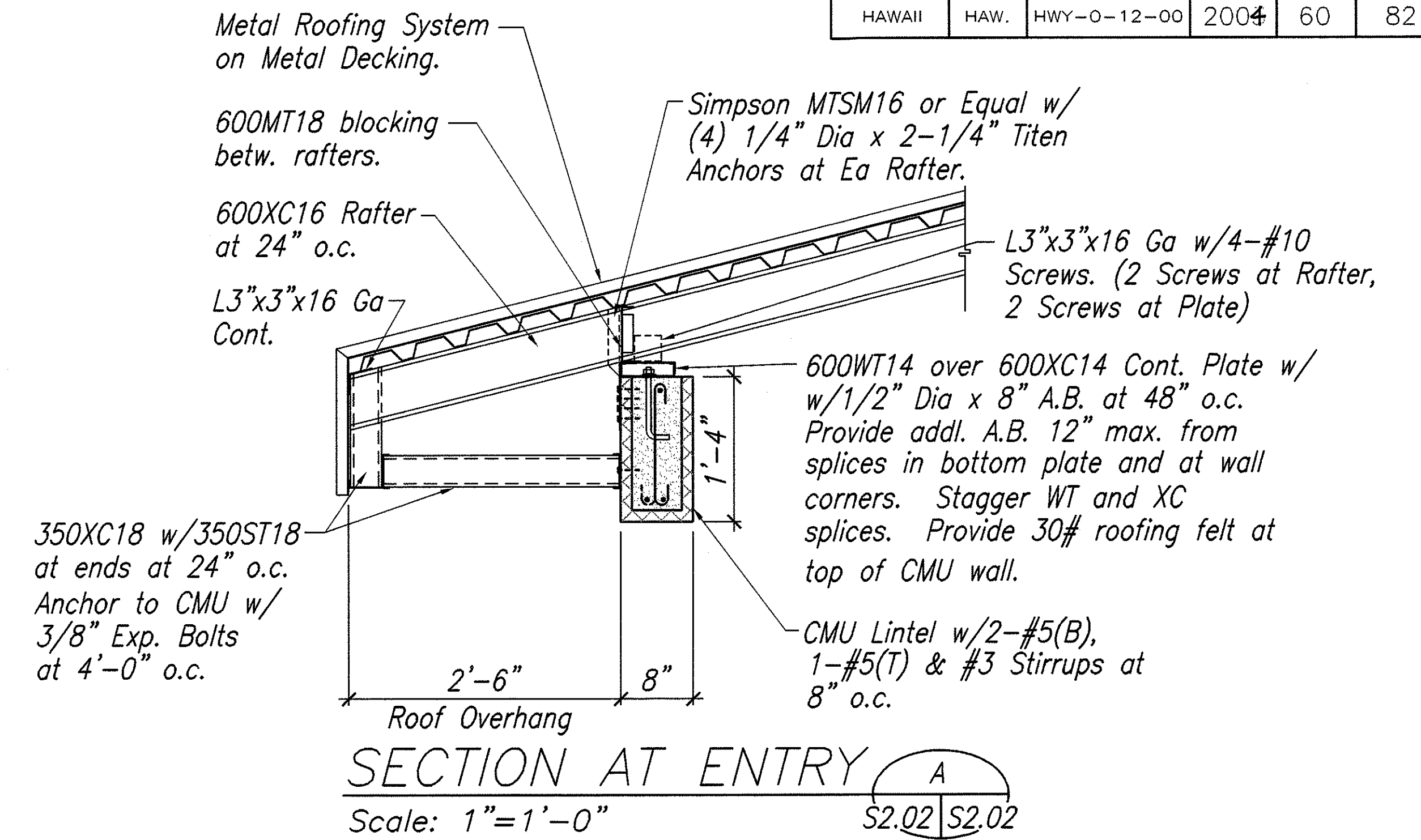
**C.O. 58**



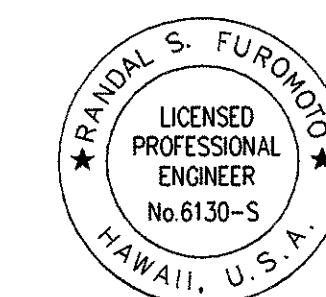
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 60        | 82           |



**ROOF FRAMING PLAN**  
Scale: 1/4"=1'-0"



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| NO.               | XX   |



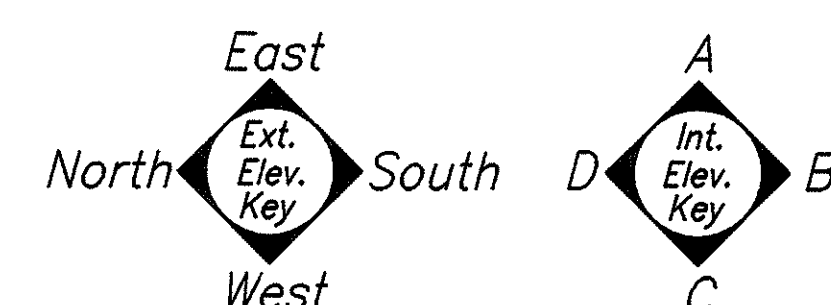
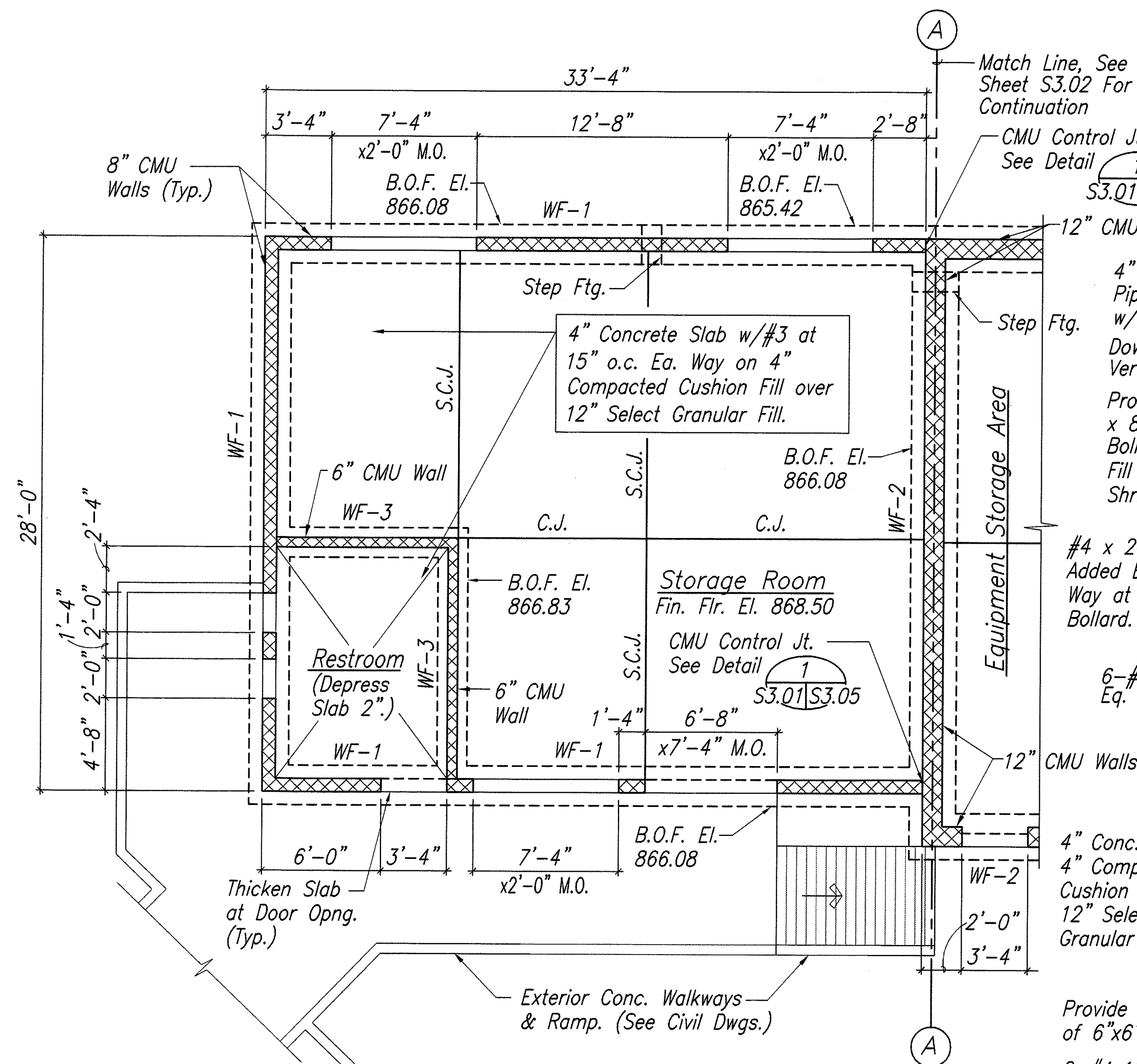
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**OFFICE BUILDING**  
**ROOF FRAMING PLAN & DETAILS**

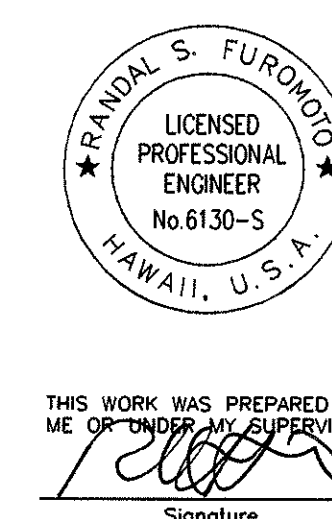
WAIHAWA BASEYARD  
IMPROVEMENTS  
Project No. HWY-0-12-00  
Scale: AS SHOWN Date: JAN 2003  
SHEET No. S2.02 OF 82 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 61        | 82           |



**PARTIAL FOUNDATION PLAN**  
Scale: 1/4"=1'-0"

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| XX                |      |
| No.               |      |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GARAGE/STORAGE BUILDING**  
**PARTIAL FOUNDATION PLAN**

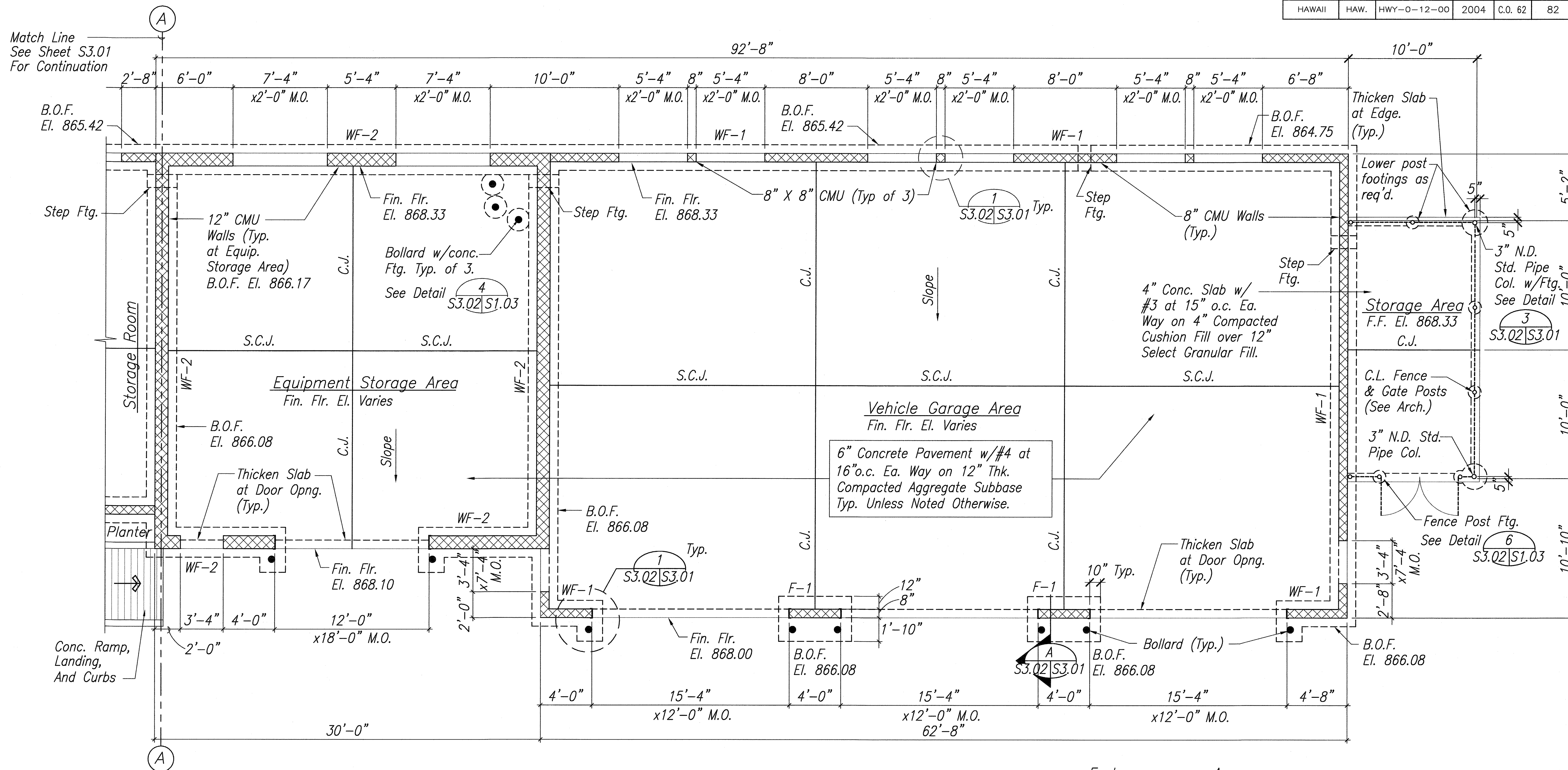
WAIHAWA BASEYARD  
IMPROVEMENTS

Project No. HWY-0-12-00

Scale: AS SHOWN Date: JAN 2003

SHEET No. S3.01 OF 82 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | C.O. 62   | 82           |



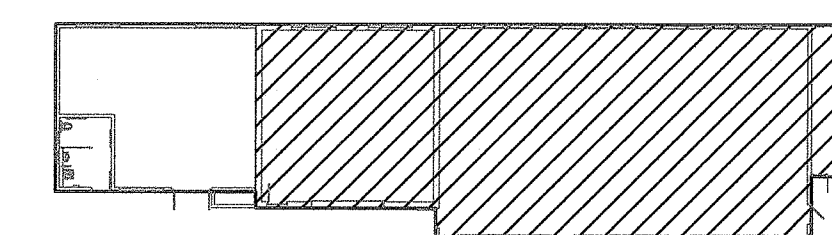
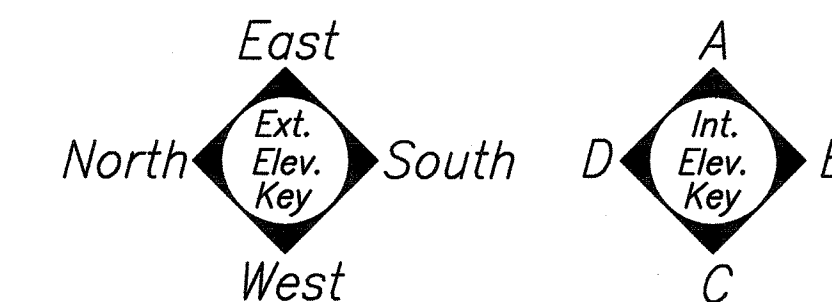
#### Legend

- S.C.J. Sawcut Contraction Joint  
C.J. Construction Joint (Keyed)  
WF-1 Wall Footing Type  
F-1 Spread Footing Type

Refer to Sheets S1.02 & S1.03 for Typical Sections and Details.

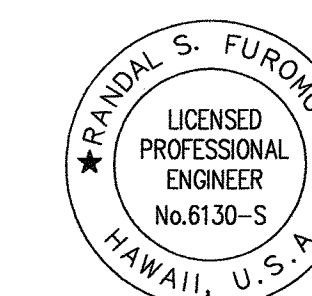
### PARTIAL FOUNDATION PLAN

Scale: 1/4" = 1'-0"



### KEY PLAN

Scale: 1/32" = 1'-0"

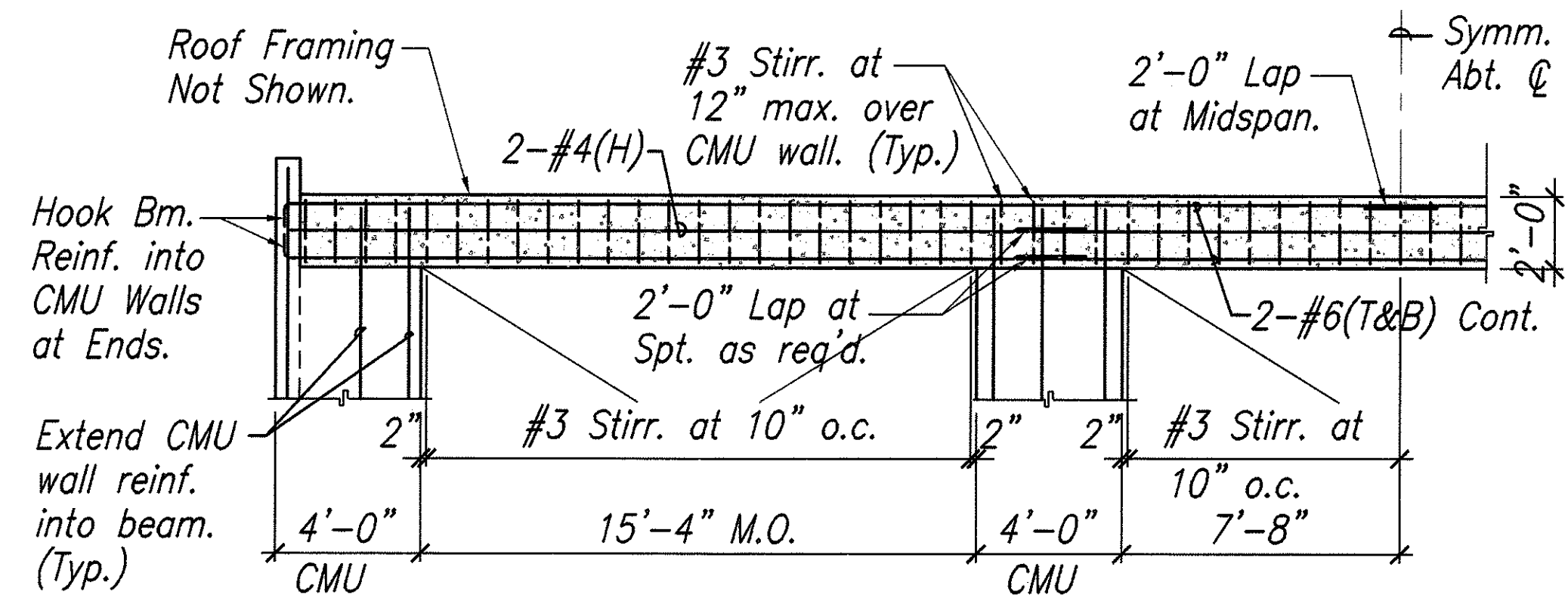
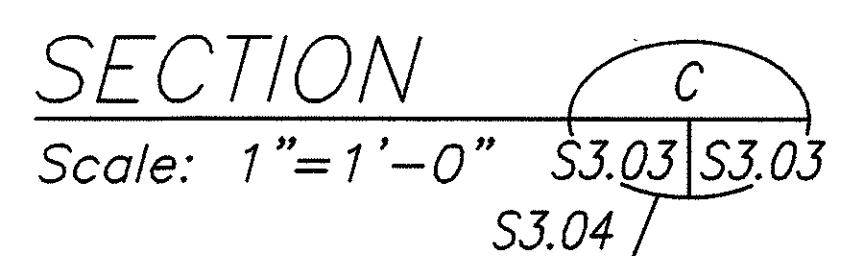
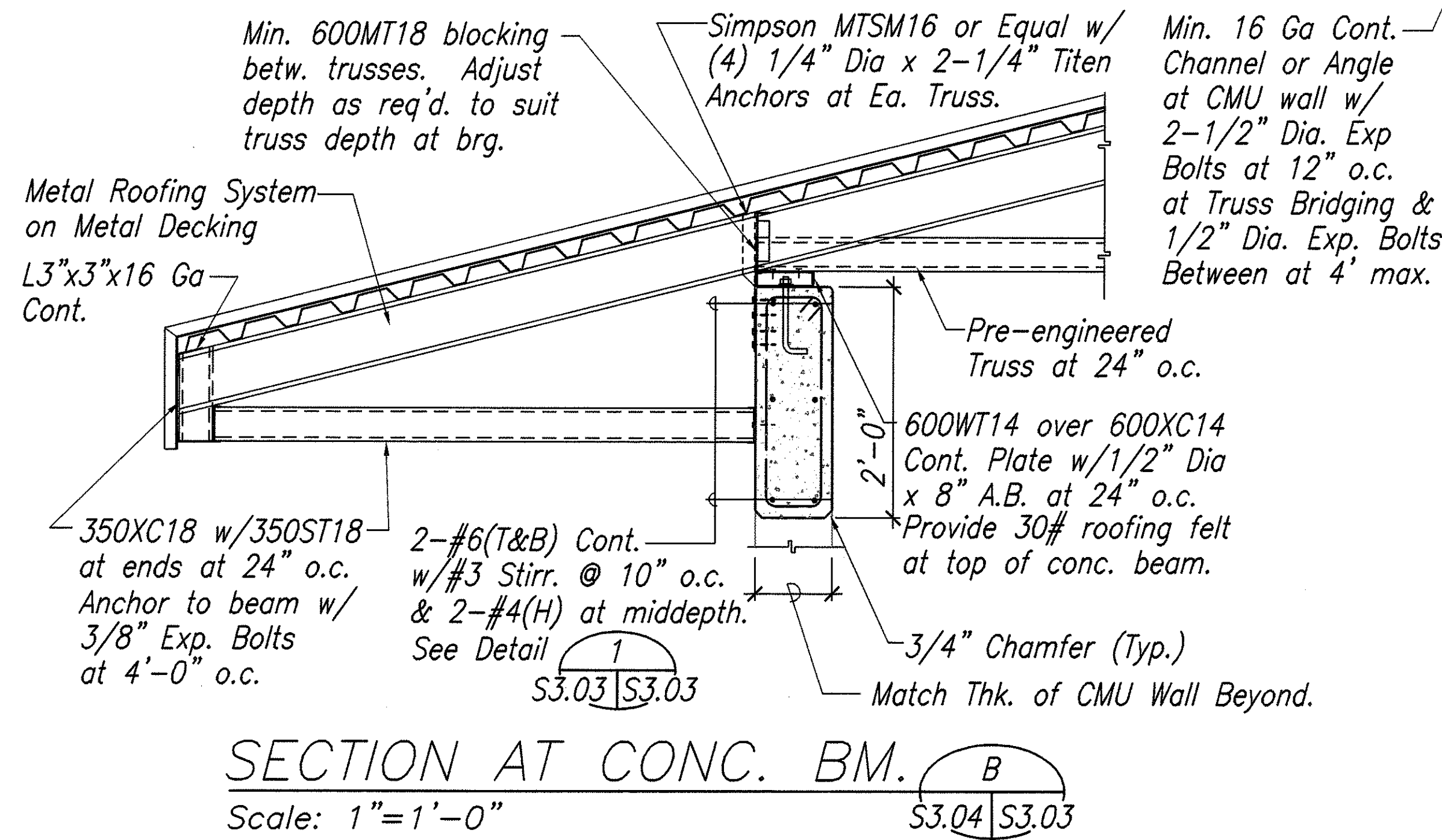
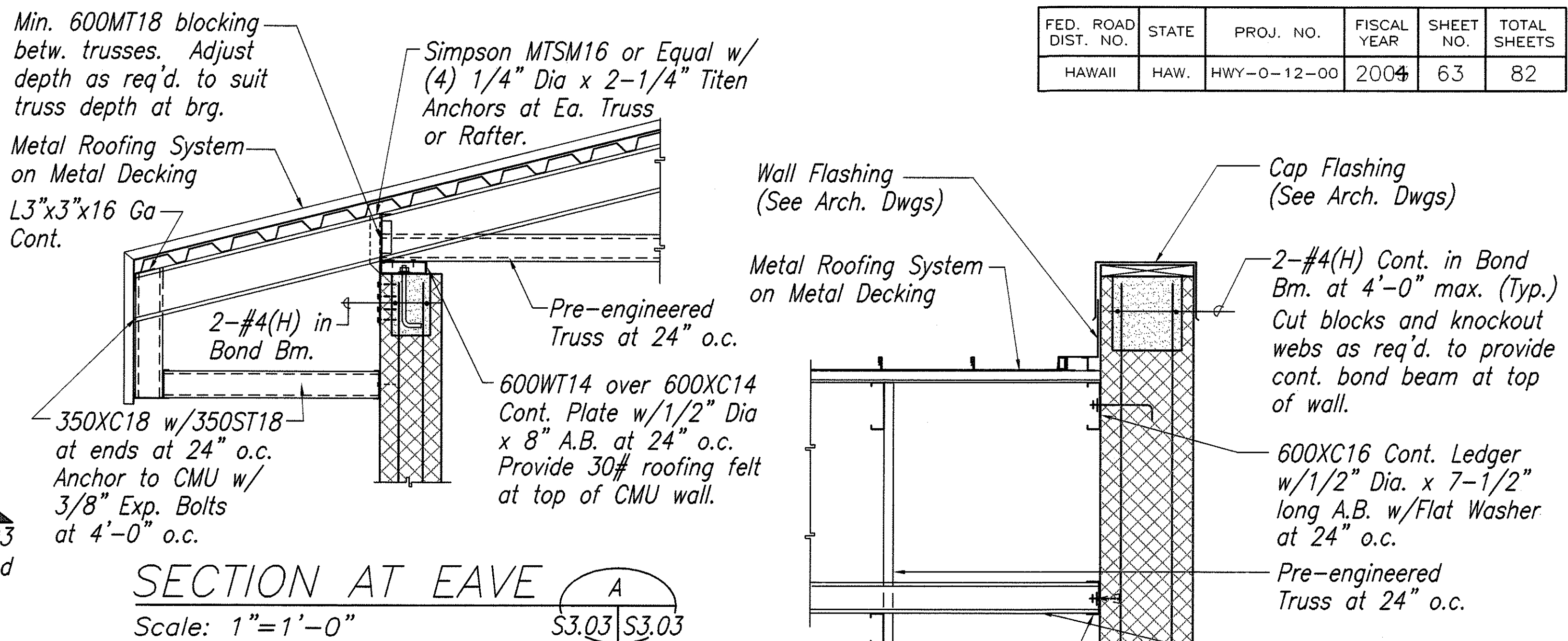
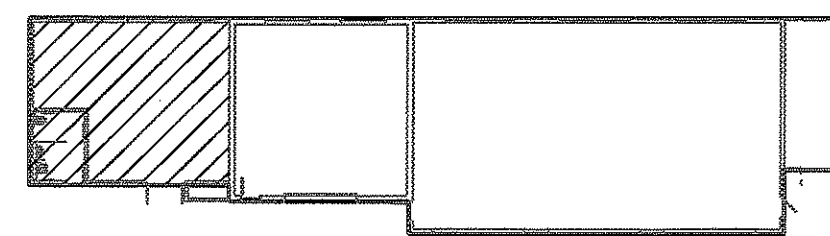
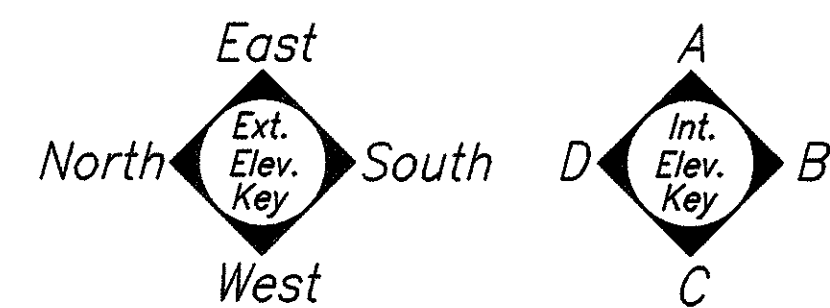
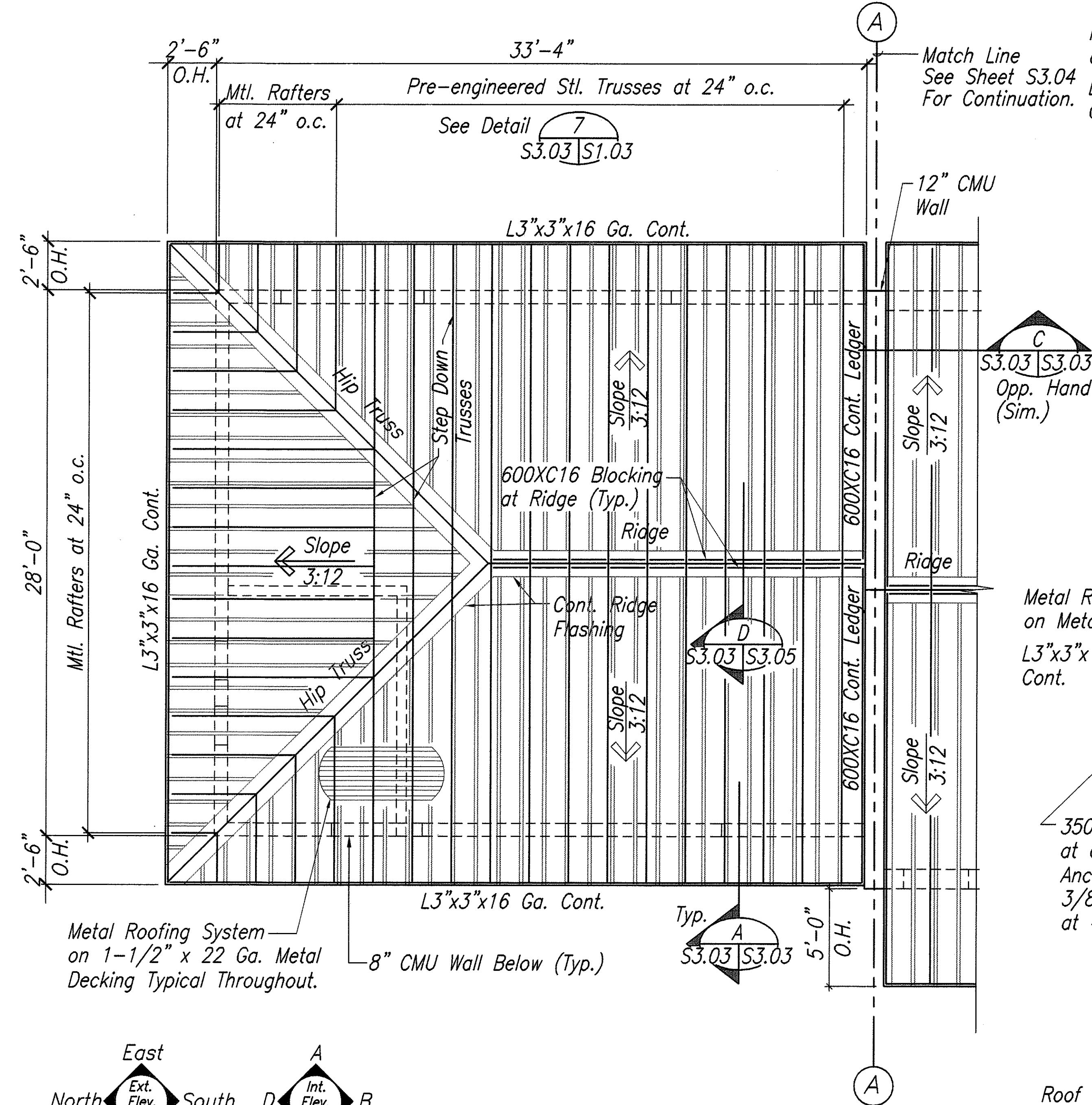


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature

| 12/15/08                                                                                                                                                                                                                                                                                | THIS SHEET REPLACES THE ORIGINAL SHEET 62 DATED JAN 2003. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| DATE                                                                                                                                                                                                                                                                                    | REVISION                                                  |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>GARAGE/STORAGE BUILDING</b><br><b>PARTIAL FOUNDATION PLAN</b><br><b>WAHIAWA BASEYARD</b><br><b>IMPROVEMENTS</b><br>Project No. HWY-0-12-00<br>Scale: AS SHOWN Date: JAN 2003<br>SHEET No. S3.02 OF 82 SHEETS |                                                           |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| CHECKED BY        |      |
| NO. 1             | XX   |
| NO. 2             | XX   |
| NO. 3             | XX   |
| NO. 4             | XX   |
| NO. 5             | XX   |
| NO. 6             | XX   |
| NO. 7             | XX   |
| NO. 8             | XX   |
| NO. 9             | XX   |
| NO. 10            | XX   |

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 63        | 82           |

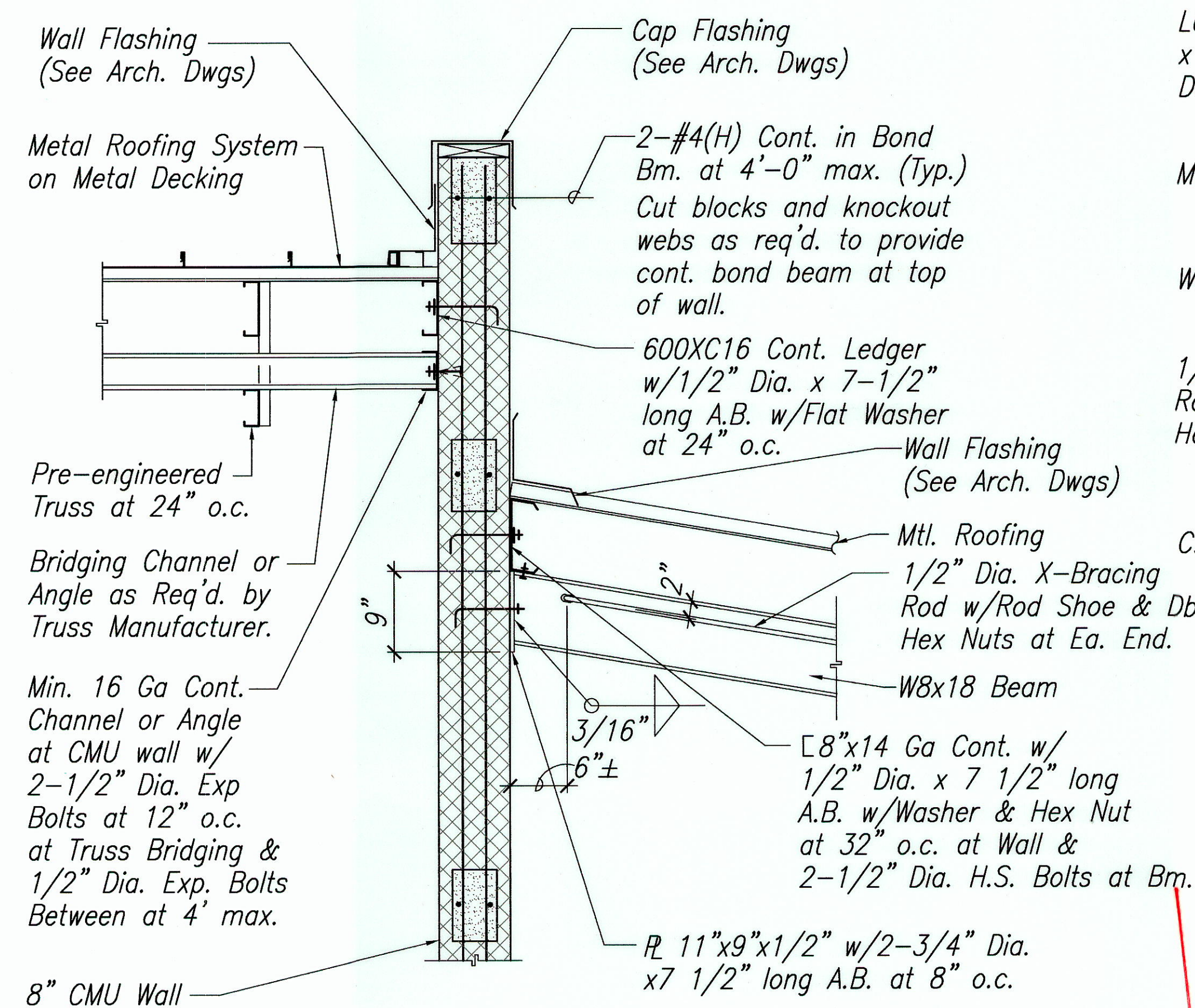


THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
Signature  
R. S. FURUKAWA  
LISCENSED PROFESSIONAL ENGINEER  
No. 6130-S  
HAWAII, U.S.A.

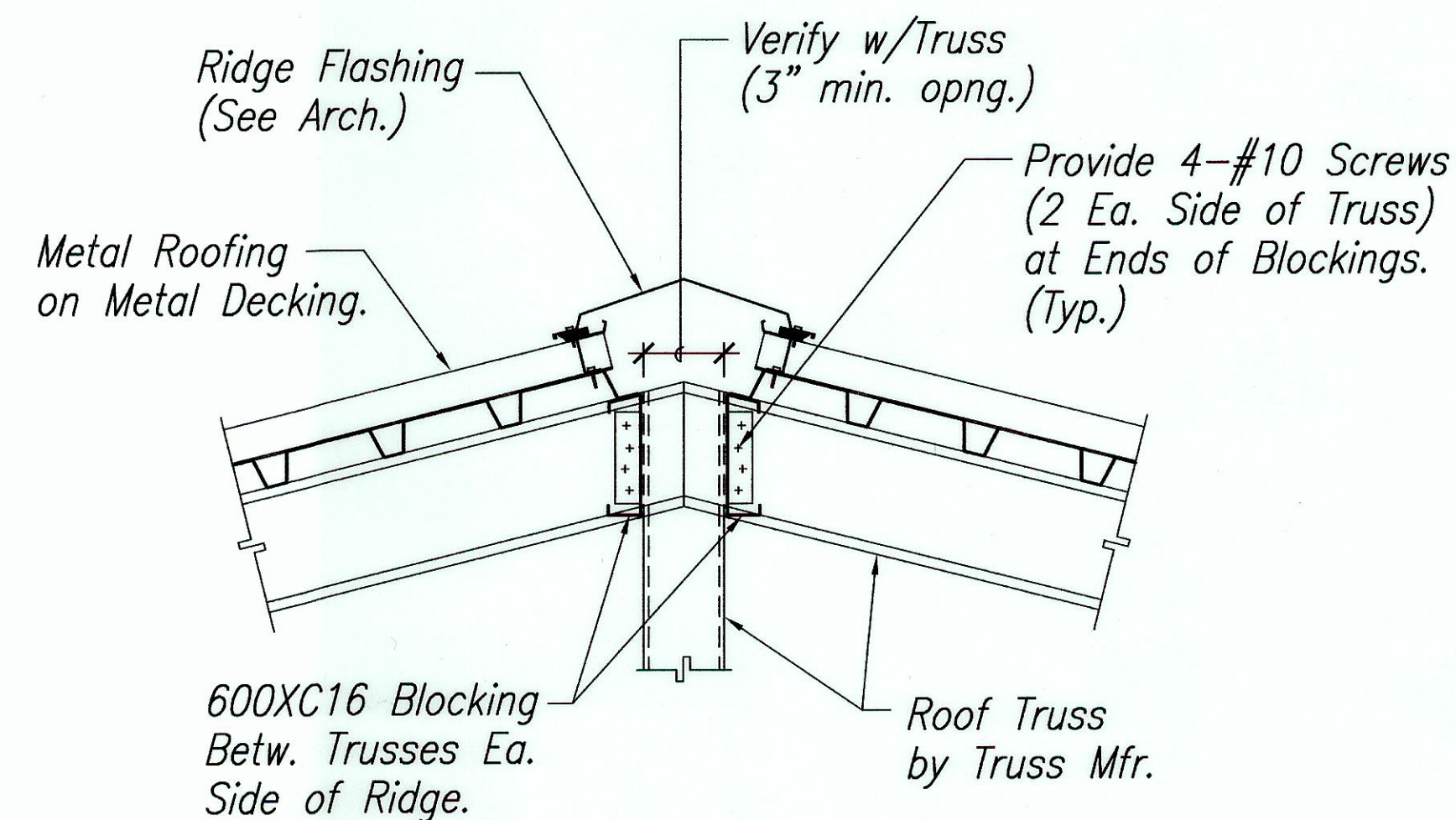
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**GARAGE/STORAGE BUILDING**  
**PARTIAL ROOF FRAMING PLAN**  
WAHIAWA BASEYARD  
IMPROVEMENTS  
Project No. HWY-0-12-00  
Scale: AS SHOWN Date: JAN 2003  
SHEET No. S3.03 OF 82 SHEETS



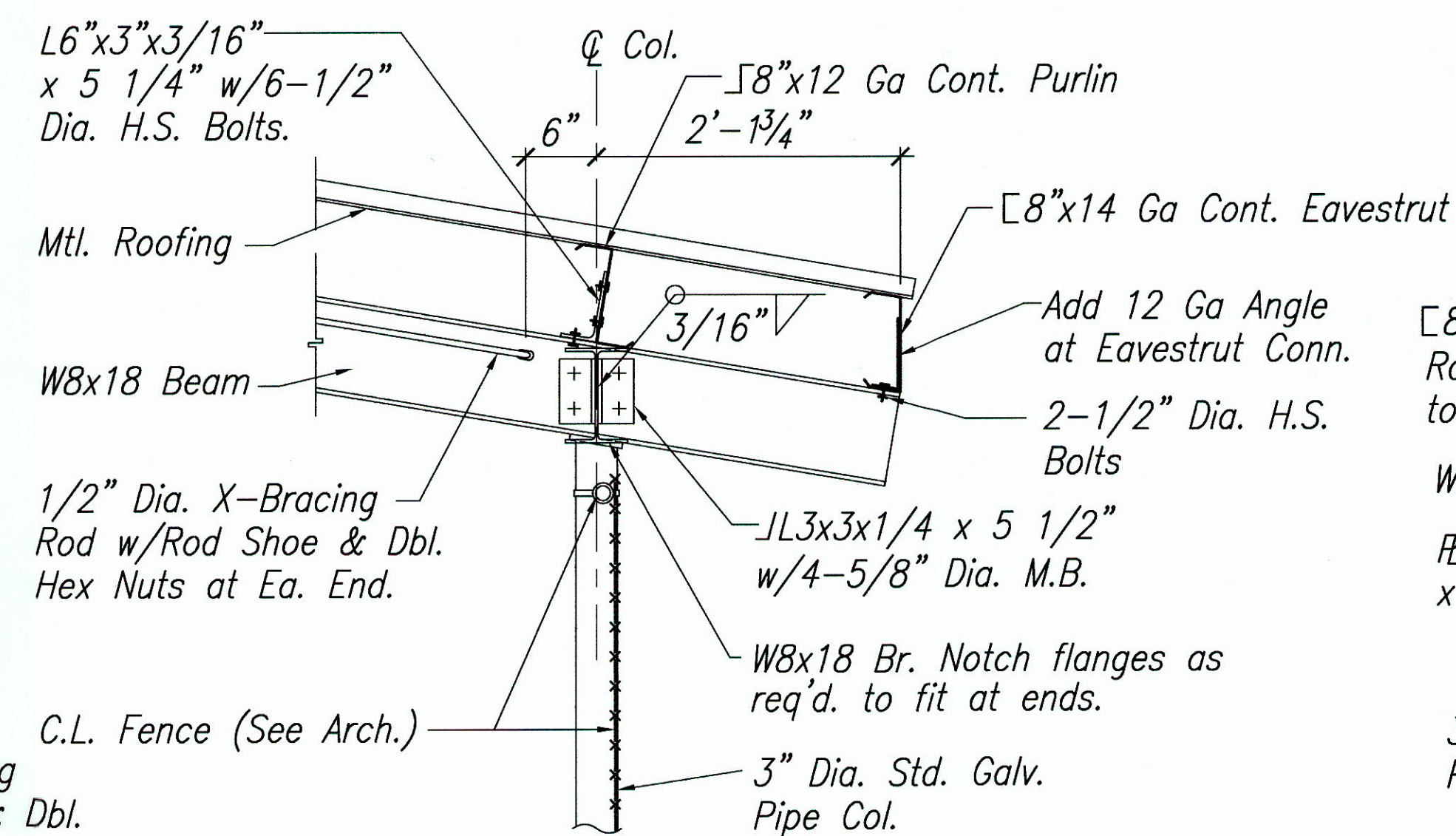
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | C.O. 65   | 82           |



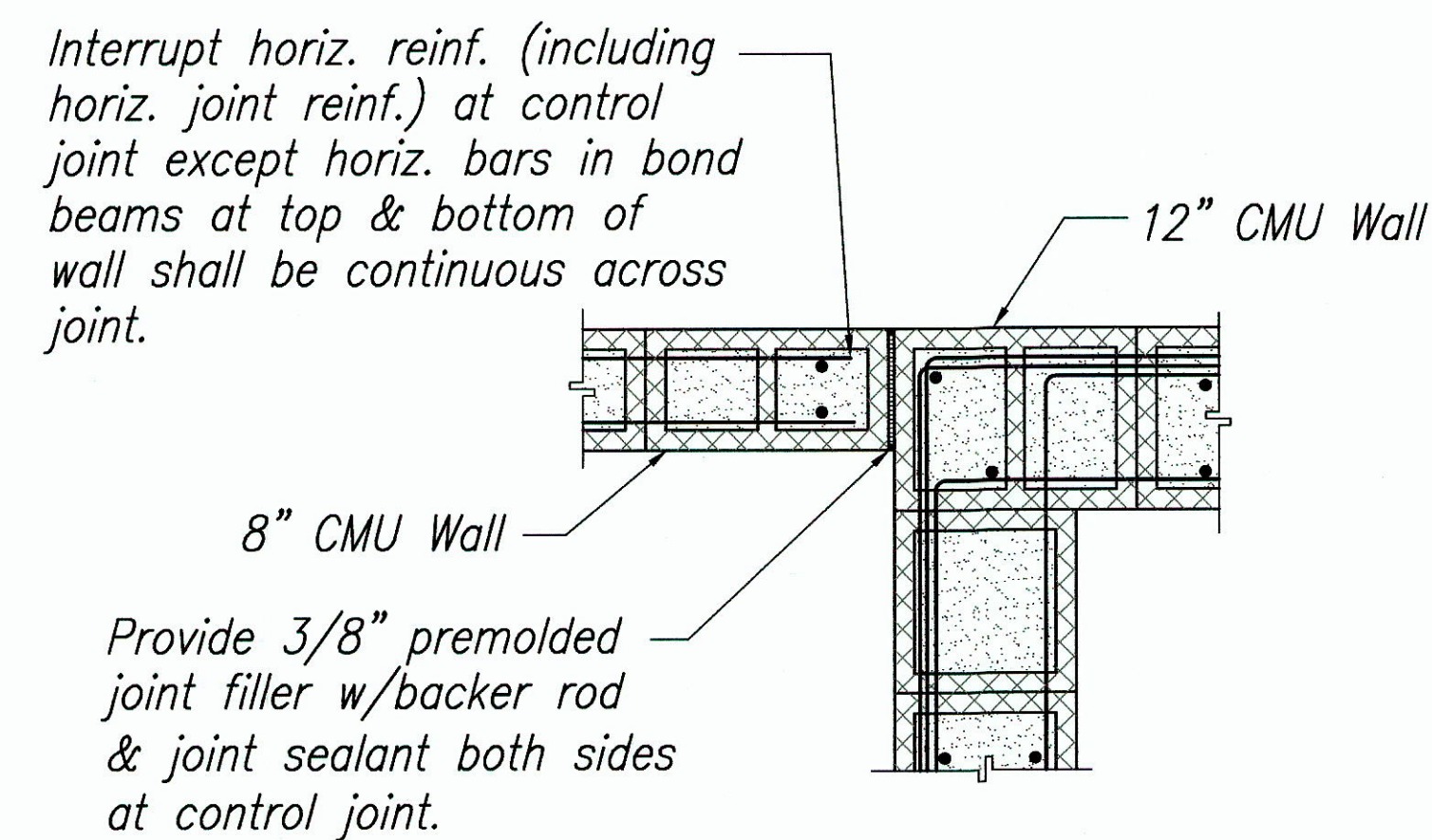
SECTION A  
Scale: 1"=1'-0" S3.04 S3.05



SECTION AT RIDGE D  
Scale: 1-1/2"=1'-0" S2.02, S3.03 S3.04 S3.05

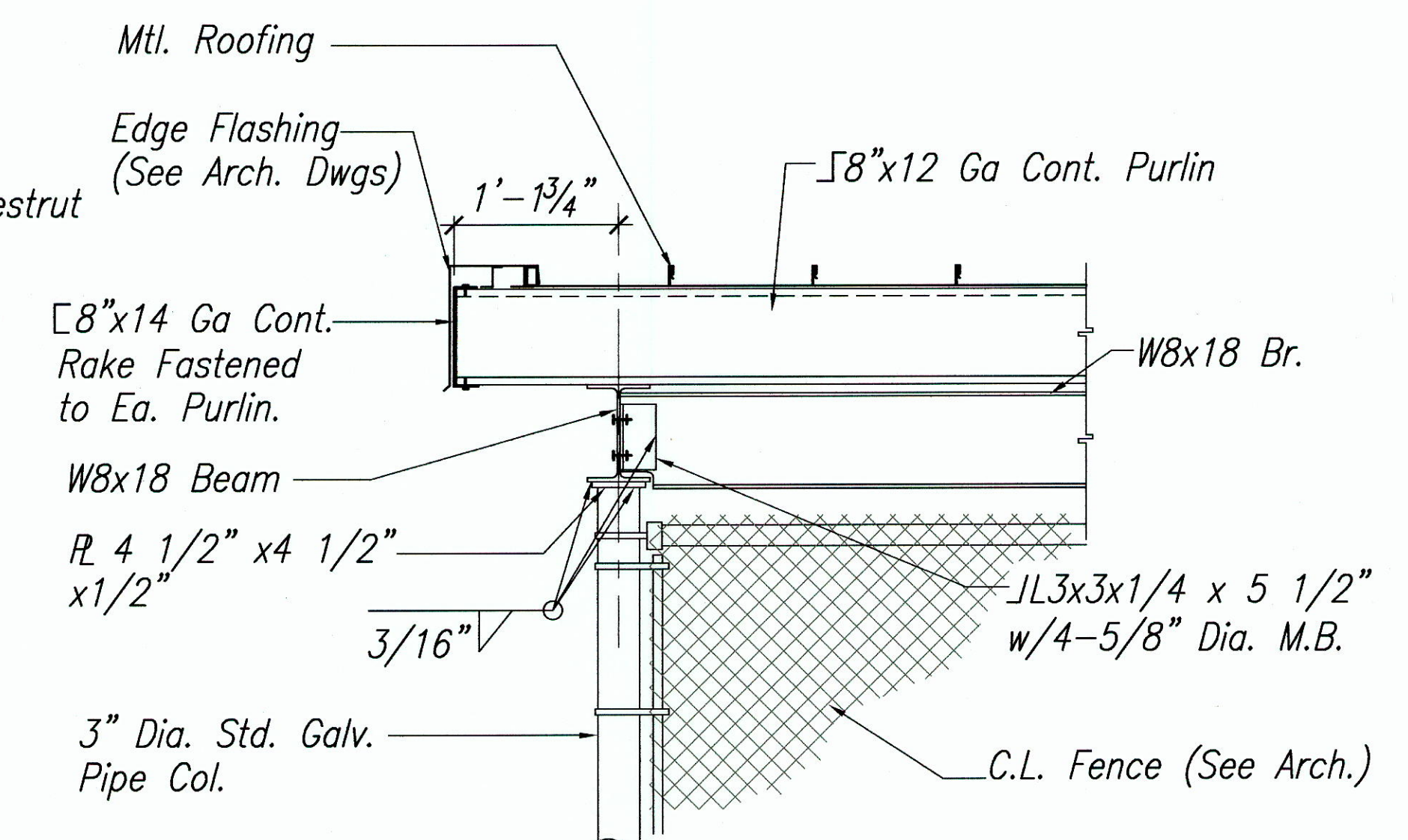


SECTION B  
Scale: 1"=1'-0" S3.04 S3.05

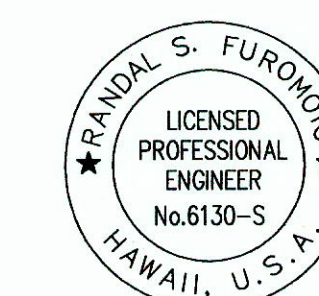


CMU CONTROL JT. DETAIL 1  
Scale: 1"=1'-0" S3.01 S3.05

Used 1/2" Threaded Rod (Galv.) with HILTI NY-70 Spaced as Needed to Ensure Threaded Rod is placed Within Grouted CMU Wall, but no more than 32" o.c.



SECTION C  
Scale: 1"=1'-0" S3.04 S3.05



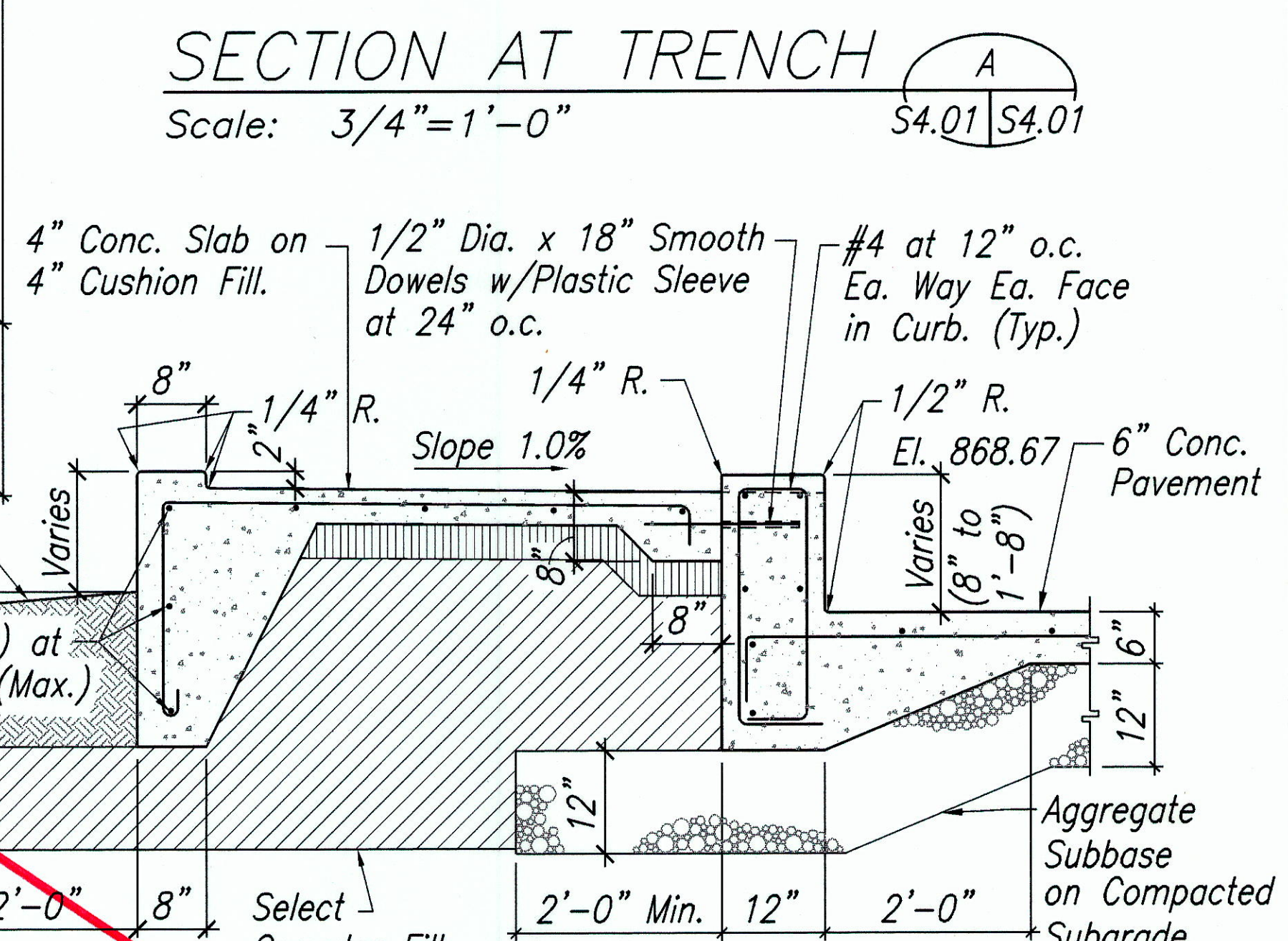
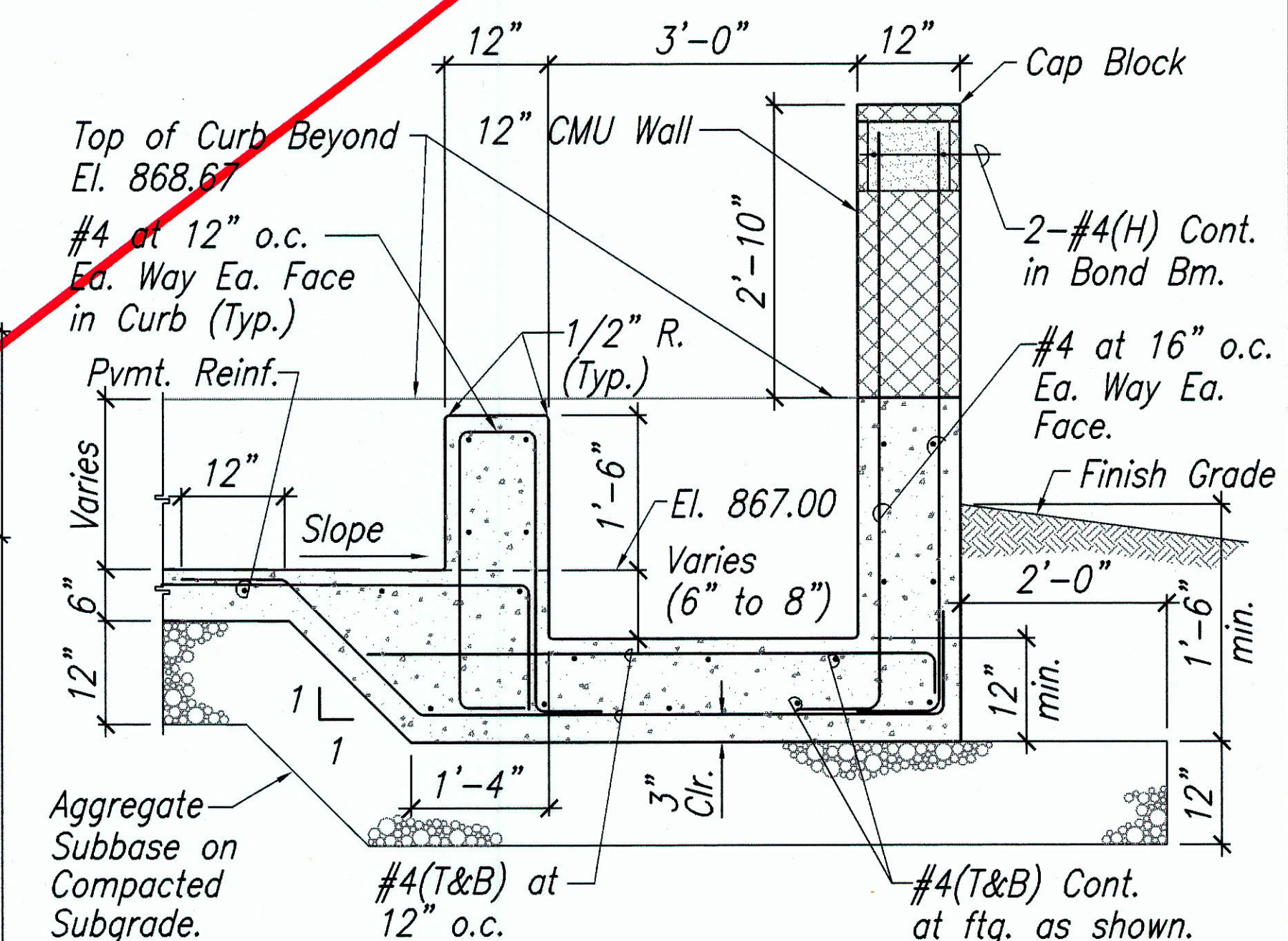
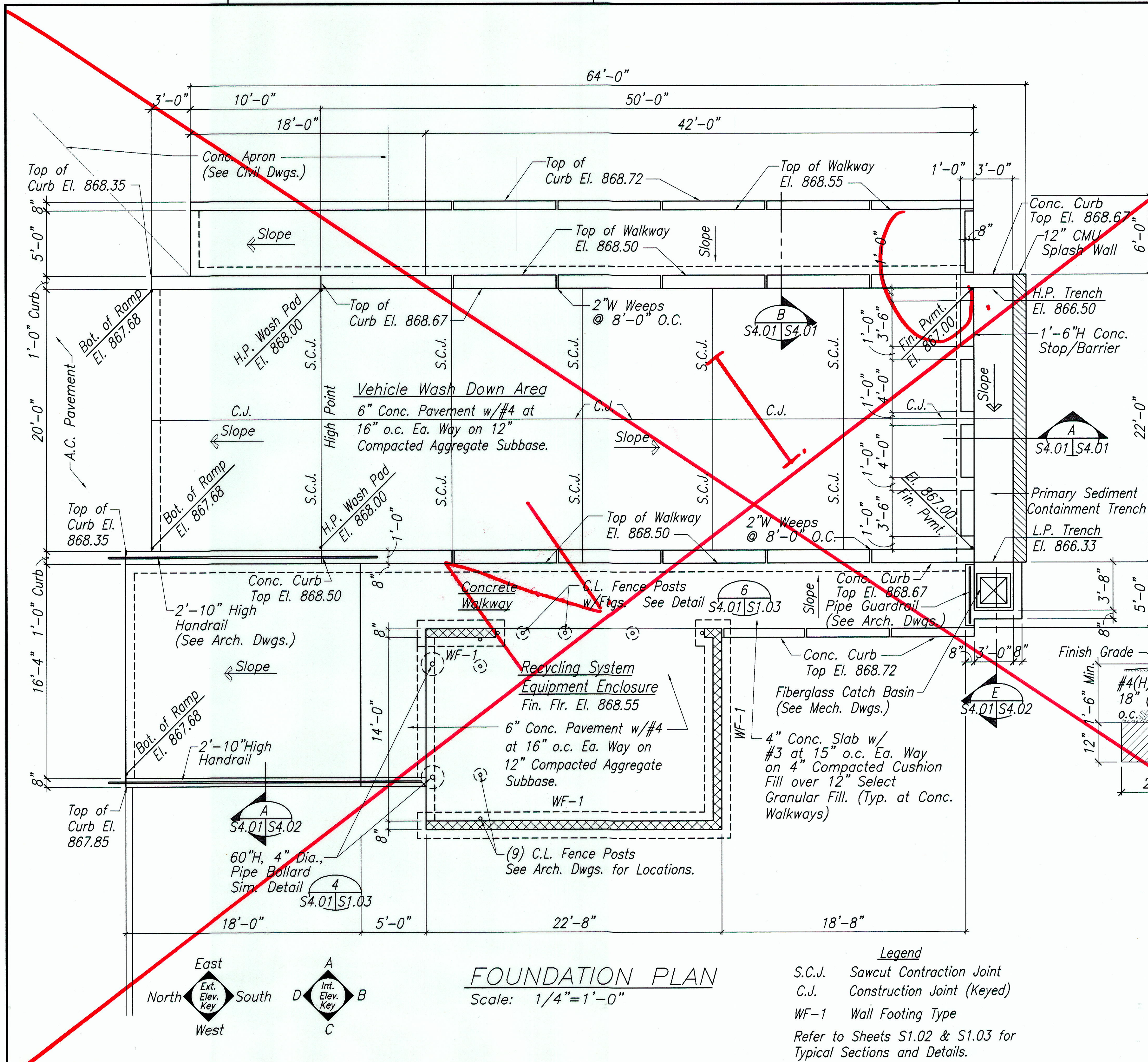
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature

| 12/15/08                                                                                                                                                                                                                                                                               | THIS SHEET REPLACES THE ORIGINAL SHEET 65 DATED JAN 2003. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| DATE                                                                                                                                                                                                                                                                                   | REVISION                                                  |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>GARAGE/STORAGE BUILDING</b><br><b>SECTIONS &amp; DETAILS</b><br><b>WAIHAWA BASEYARD</b><br><b>IMPROVEMENTS</b><br>Project No. HWY-0-12-00<br>Scale: AS SHOWN Date: JAN 2003<br>SHEET No. S3.05 OF 82 SHEETS |                                                           |

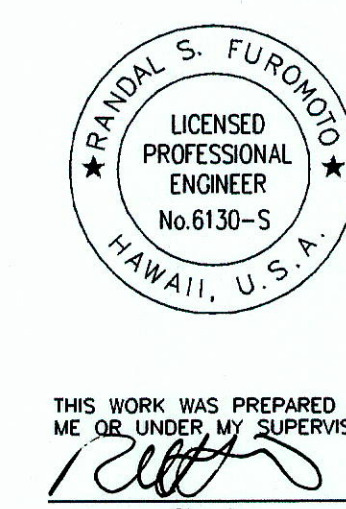
"AS-BUILT"

C.O. 65

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 66        | 82           |



|             |       |
|-------------|-------|
| DATE        | _____ |
| DESIGNED BY | _____ |
| CHECKED BY  | _____ |
| NO.         | XX    |



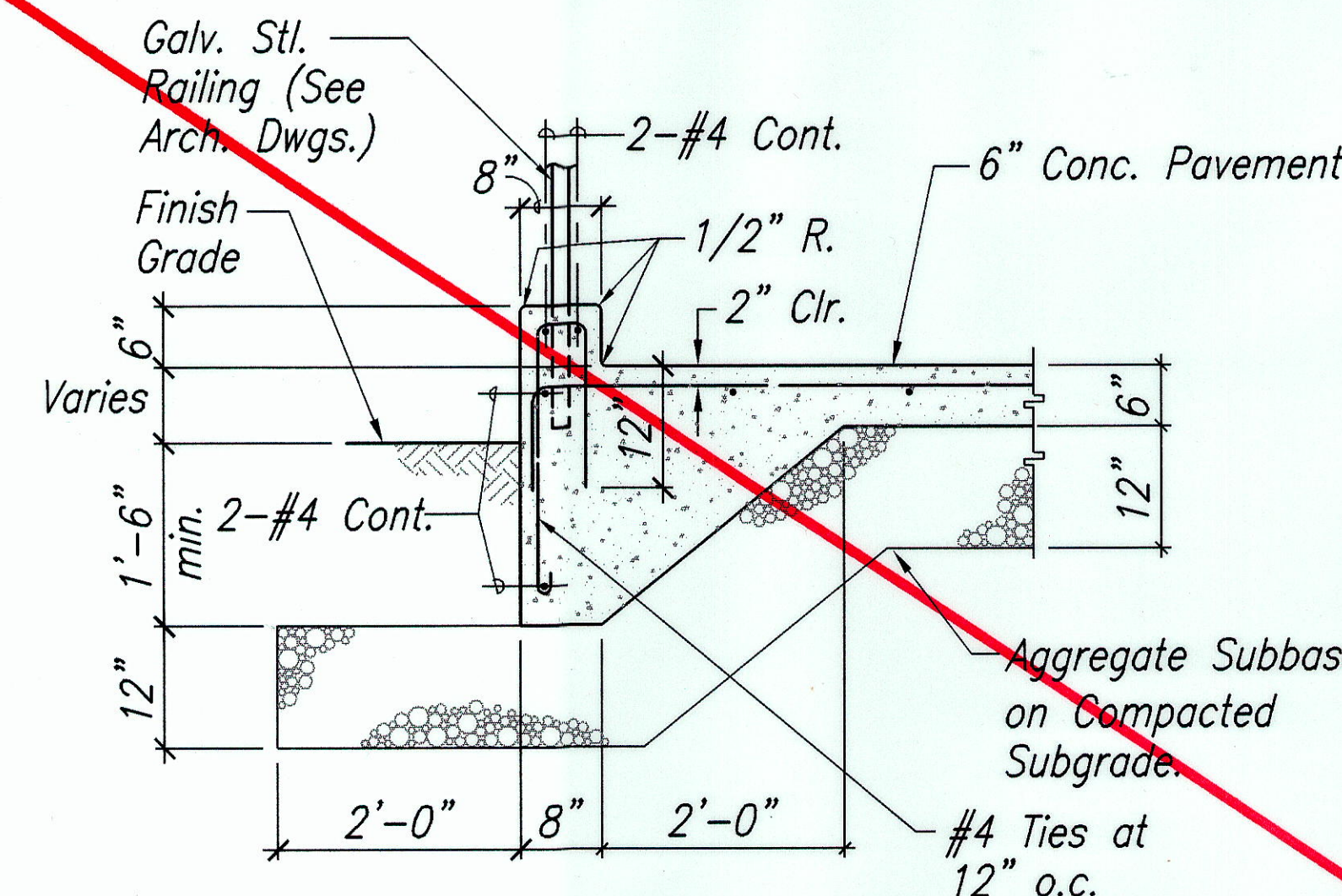
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**VEHICLE WASH STRUCTURE  
STRUCTURAL PLANS & DETAILS**

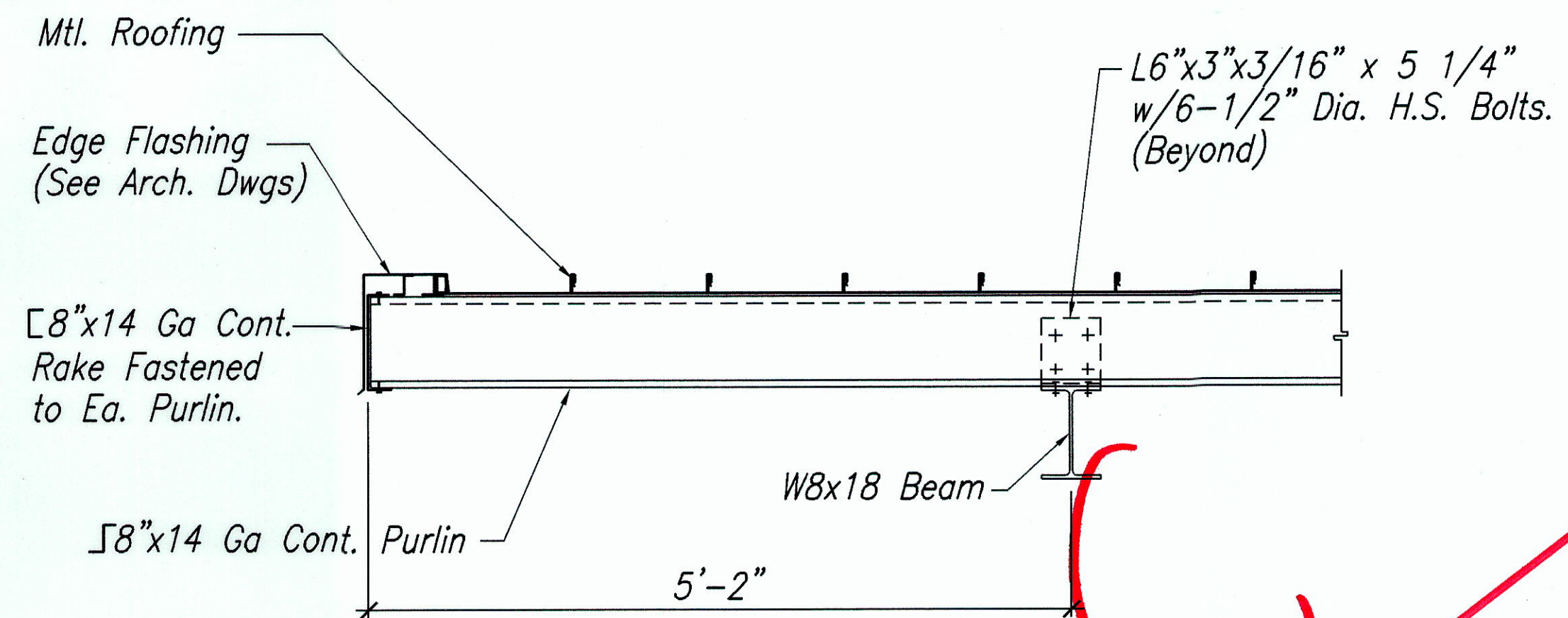
WAIHAWA BASEYARD  
IMPROVEMENTS  
Project No. HWY-0-12-00  
Scale: AS SHOWN Date: JAN 2003  
SHEET No. S4.01 OF 82 SHEETS

"AS-BUILT"

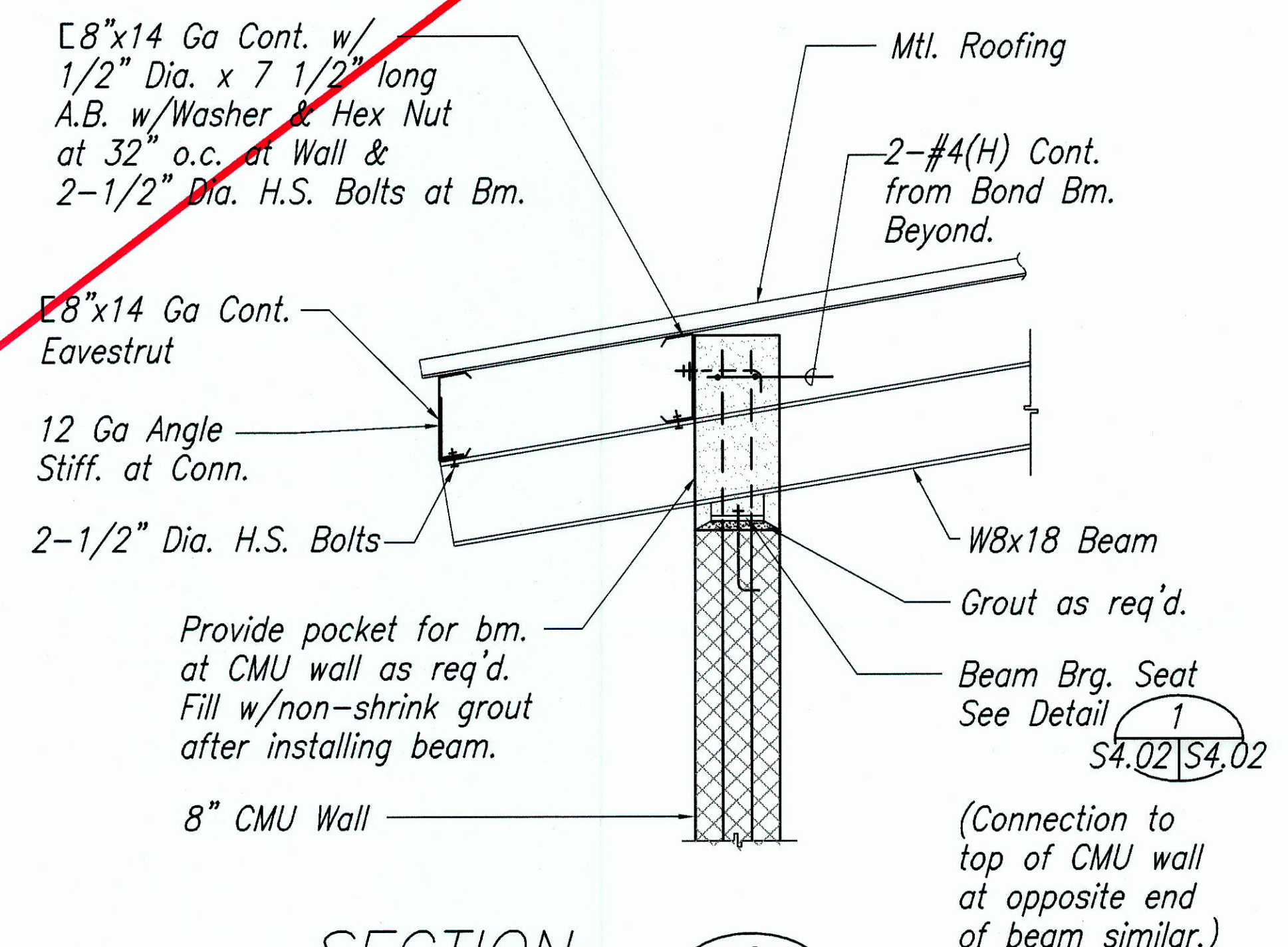
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-12-00 | 2004        | 67        | 82           |



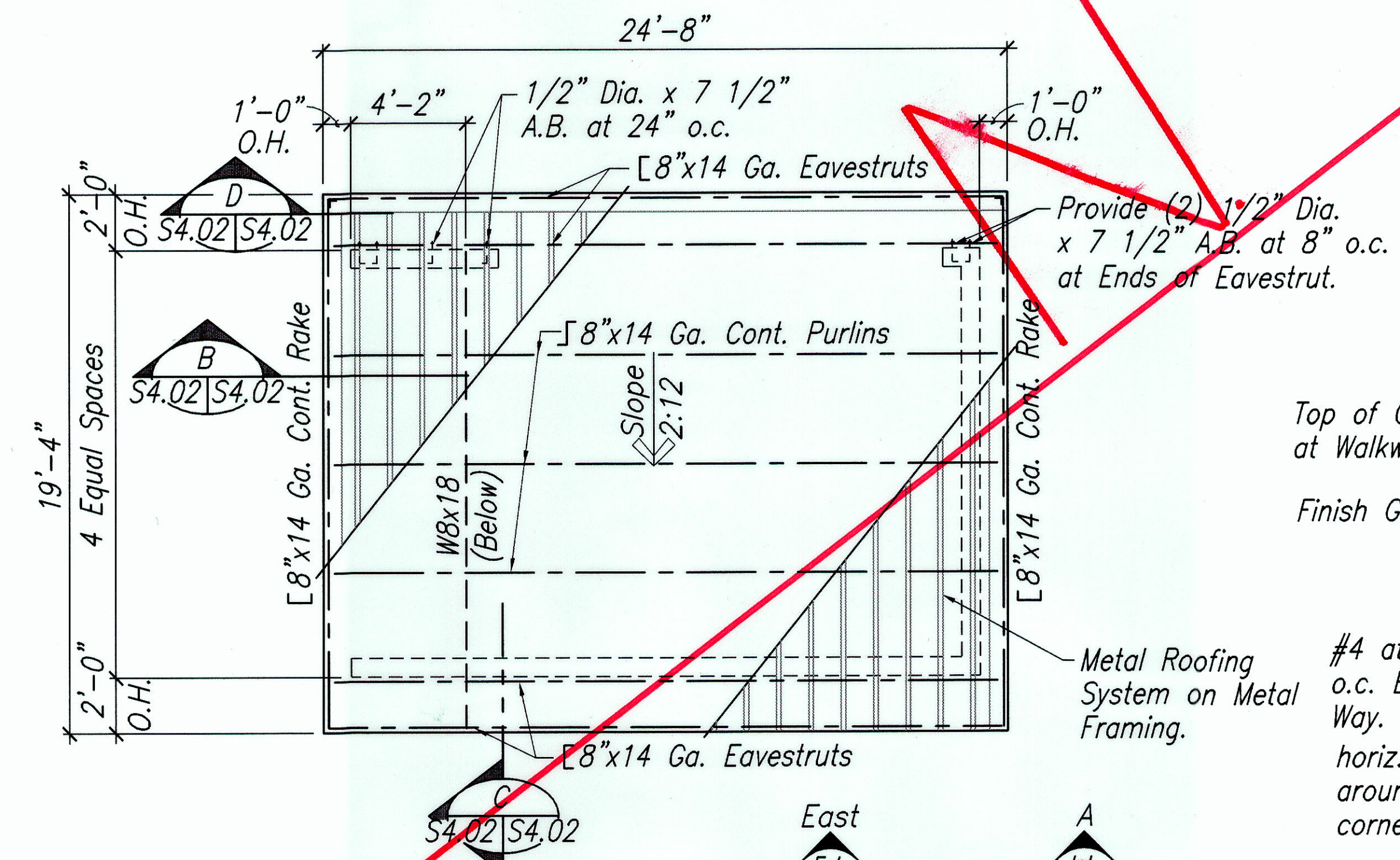
**SECTION A**  
Scale: 3/4"=1'-0" S4.01 S4.02



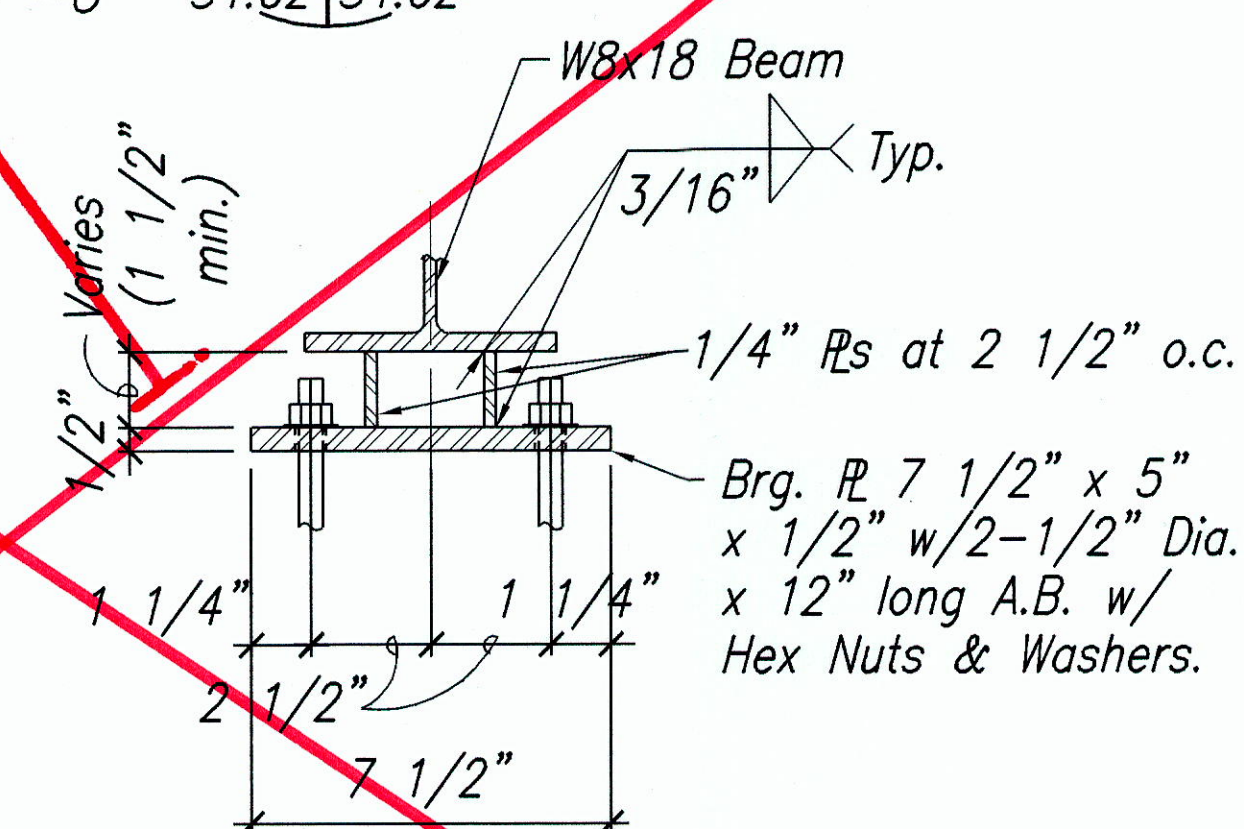
**SECTION B**  
Scale: 1"=1'-0" S4.02 S4.02



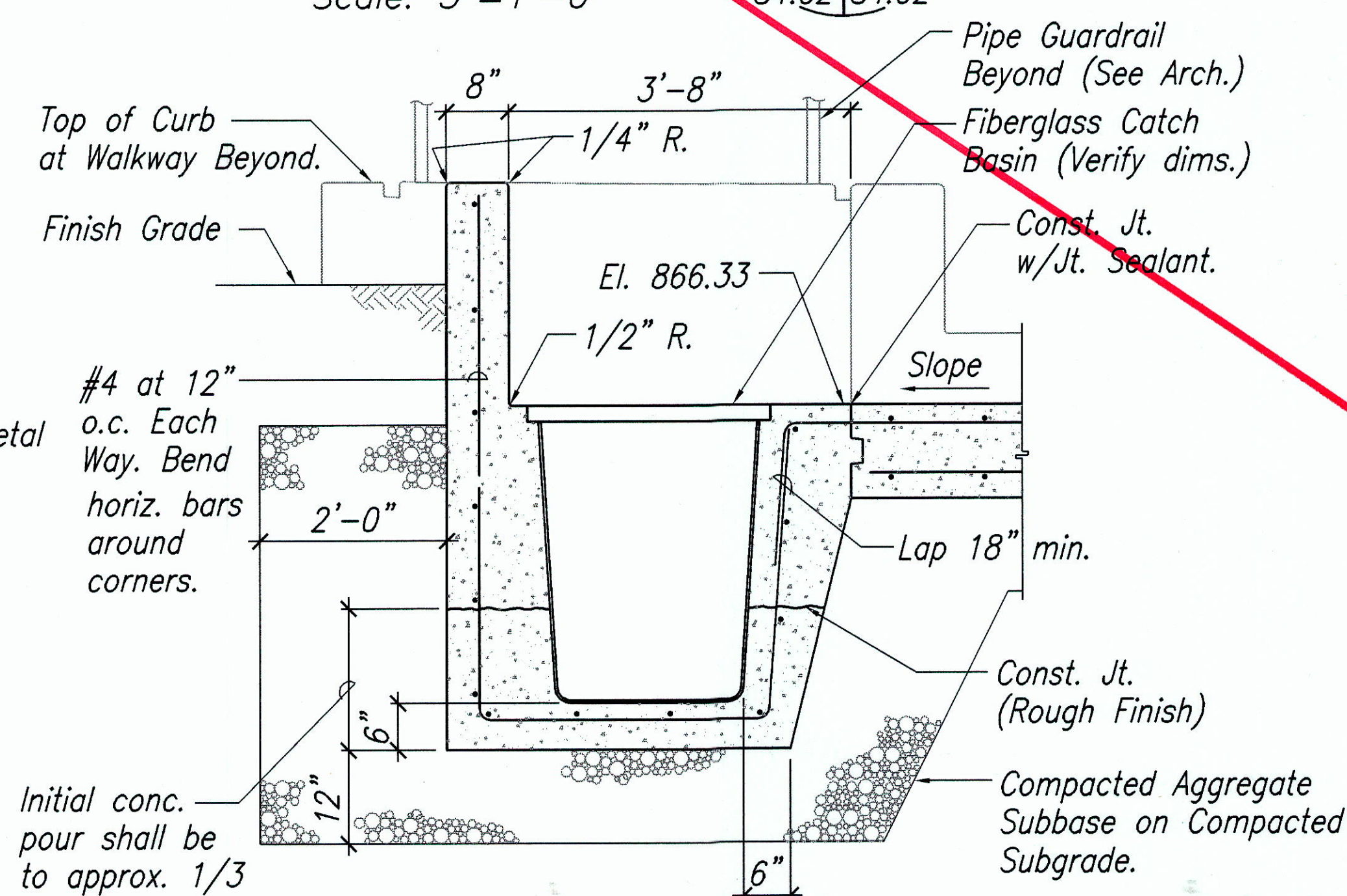
**SECTION C**  
Scale: 1"=1'-0" S4.02 S4.02



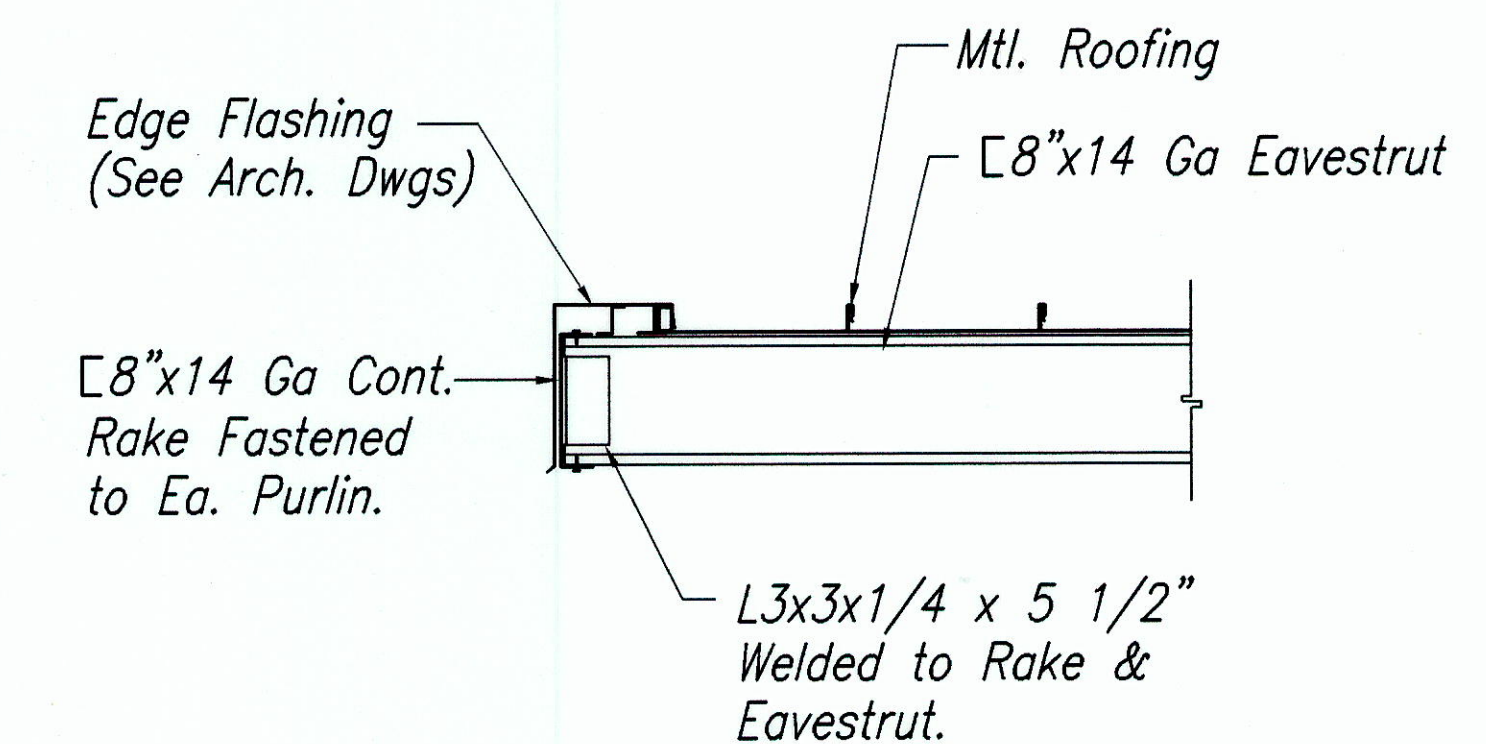
**ROOF FRAMING PLAN**  
Scale: 1/4"=1'-0"



**BEARING SEAT 1**  
Scale: 3"=1'-0" S4.02 S4.02



**SECTION D**  
Scale: 3/4"=1'-0" S4.01 S4.02



**SECTION E**  
Scale: 1"=1'-0" S4.02 S4.02

|             |       |
|-------------|-------|
| DATE        | _____ |
| DESIGNED BY | _____ |
| CHECKED BY  | _____ |
| NO.         | _____ |

RANDAL S. FUROMOTO  
 LICENSED PROFESSIONAL ENGINEER  
 No. 6130-S  
 HAWAII, U.S.A.  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
 Signature

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**VEHICLE WASH STRUCTURE**  
**ROOF FRAMING PLAN & DETAILS**  
 WAHIAWA BASEYARD  
 IMPROVEMENTS  
 Project No. HWY-0-12-00  
 Scale: AS SHOWN Date: JAN 2003  
 SHEET No. S4.02 OF 82 SHEETS

"AS-BUILT"