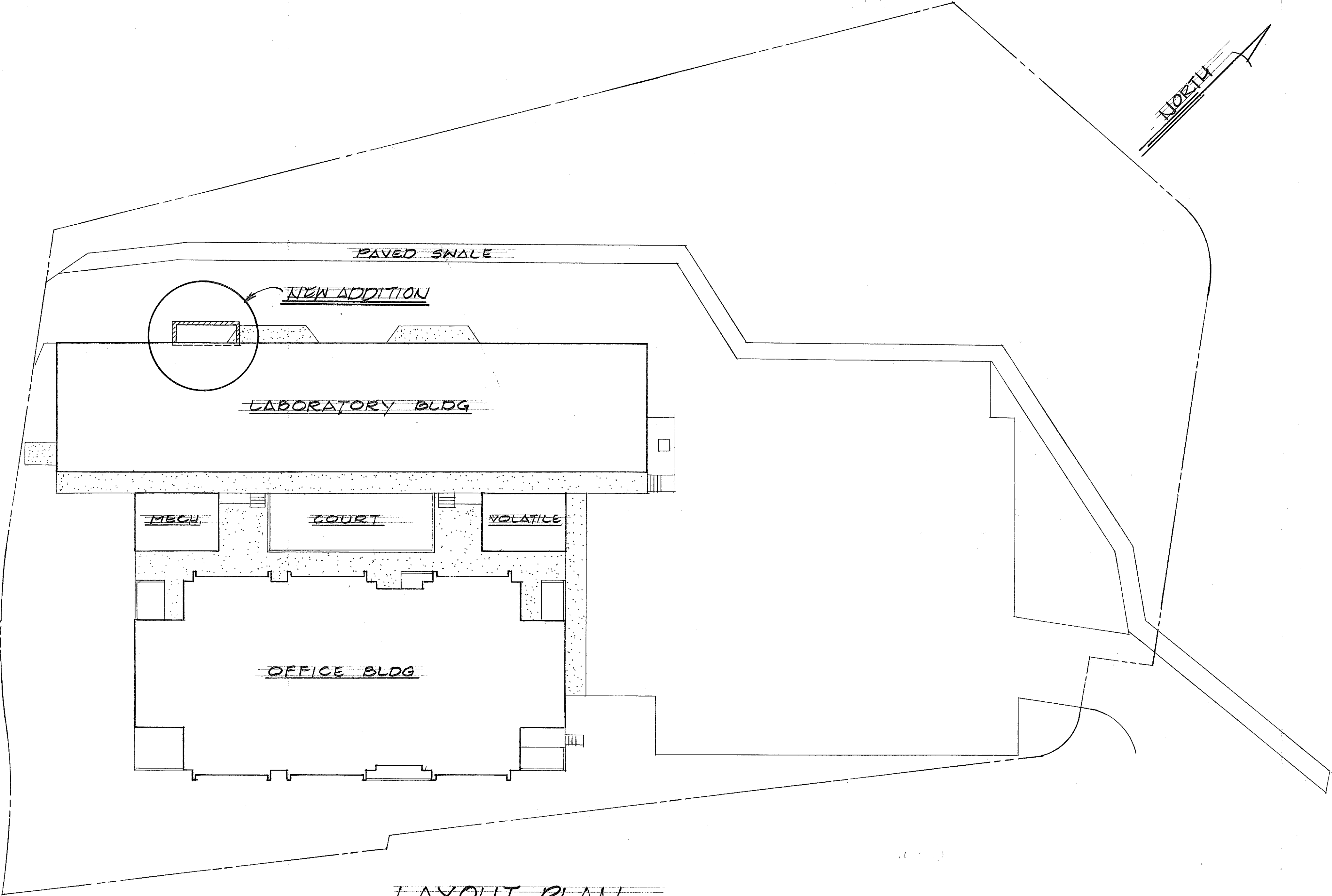


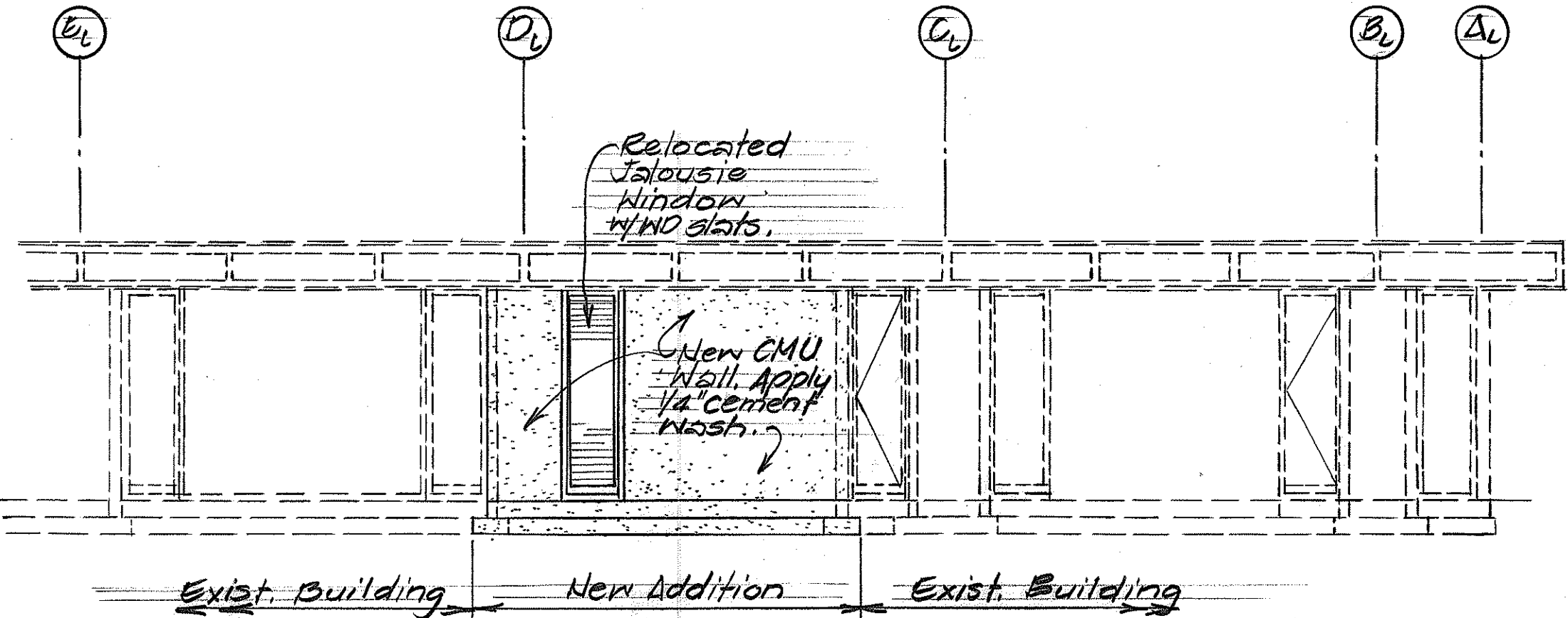
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-03-81 | 1982        | 2         | 4            |

# GENERAL NOTES

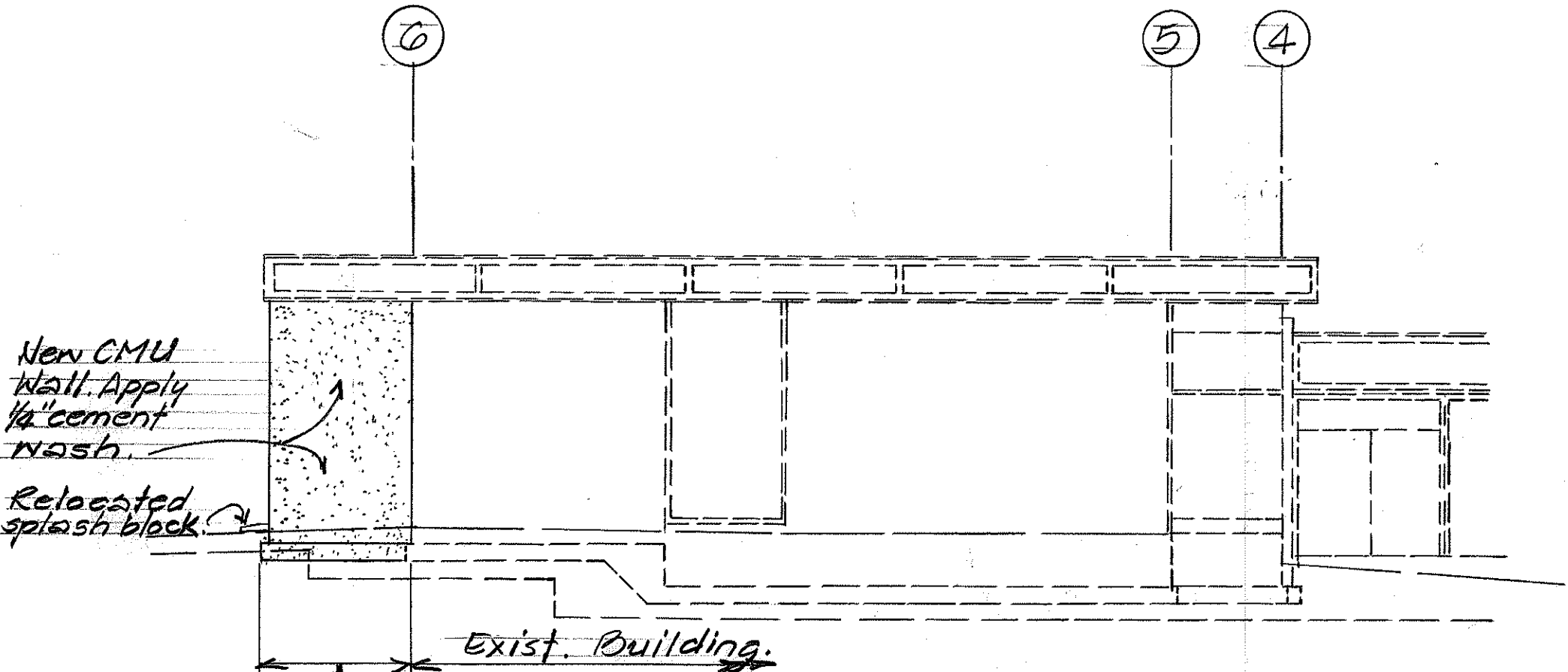
- I. DESIGN DATA:**  
Wind load 20 psf
- II. MATERIALS:**
- CONCRETE MASONRY UNIT:**  
Concrete masonry block shall be load bearing, conforming to ASTM C-90 Grade N-II.
  - CONCRETE:**  
28 day compressive strength  $f_c' = 2500$  psi  
All concrete shall be Class B.
  - REINFORCING STEEL:**  
ASTM A-615 Grade 40.
  - STRUCTURAL STEEL:**
    - Shapes & plates ASTM A-36
    - Welding ASTM A-223 E60  $\frac{3}{16}$ " fillet unless otherwise noted.
  - ANCHOR BOLT:**  
Hot dipped galvanized A307.
  - LUMBER:**  
Douglas fir larch select structural.
- III. CONSTRUCTION REQUIREMENTS:**
- All concrete block walls shall have 1-#5 vert. bar @ 48" o.c. max. in a grout filled cell and at all corners, jambs and mullions.
  - Horizontal masonry joint reinf. shall be placed @ 16" o.c. & shall be continuous around all corners & shall lap minimum of 6" splices.
  - All vertical cells containing reinf. & all bond beams shall be filled with 2500 psi grout.
  - Concrete protection: Foundation 3" clear.
  - Place Testing Machine on its platform before completing enclosure.
  - Upon removal of the existing walls the Contractor shall be responsible for providing temporary security measures at the end of each working day until completion of the new wall. This work will not be measured for payment but shall be considered incidental to installation of the Universal Testing Machine.
  - During non-working hours the Contractor shall cover the excavated area where the platform is to be constructed to protect the work from rain, debris, etc. This work will not be measured for payment, but shall be considered incidental to installation of the Universal Testing Machine.
  - Relocation of downspout shall be as shown on the plans. This work will not be measured for payment but shall be considered incidental to the installation of the Universal Testing Machine.
  - Vapor barrier shall be installed for all concrete surfaces in contact with compacted fill, structural fill or soil except for footings for CMU walls.



**LAYOUT PLAN**  
Scale: 1" = 20'-0"



**ELEVATION**  
Scale: 1/8" = 1'-0"



**ELEVATION**  
Scale: 1/8" = 1'-0"

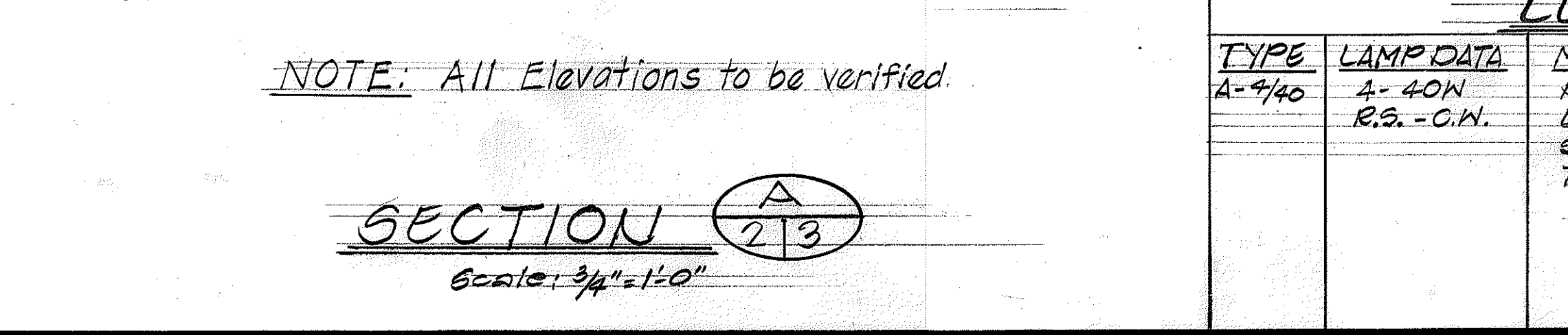
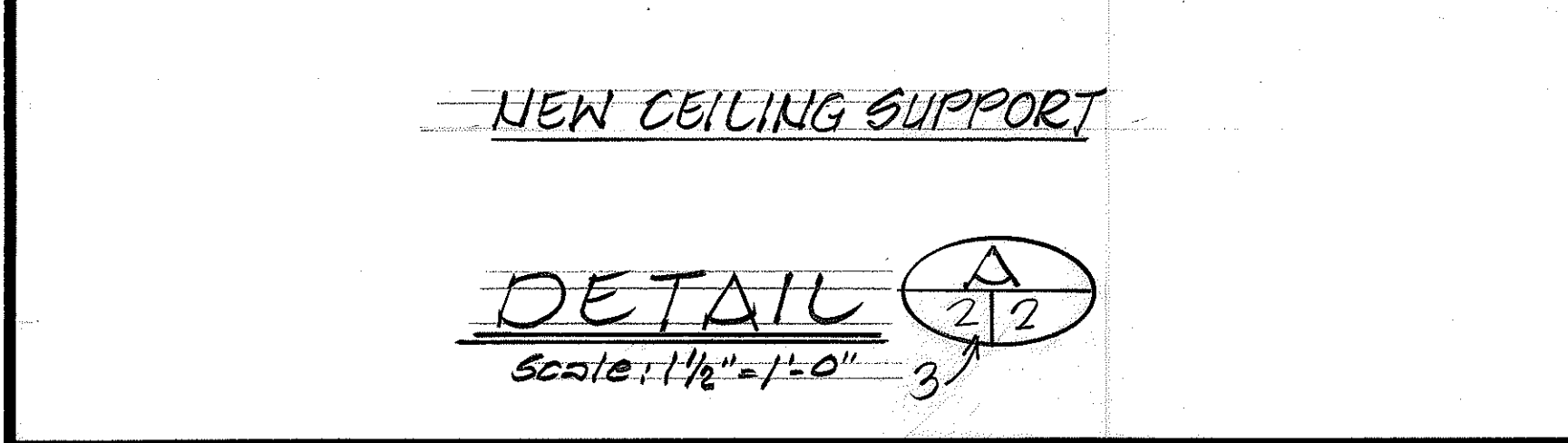
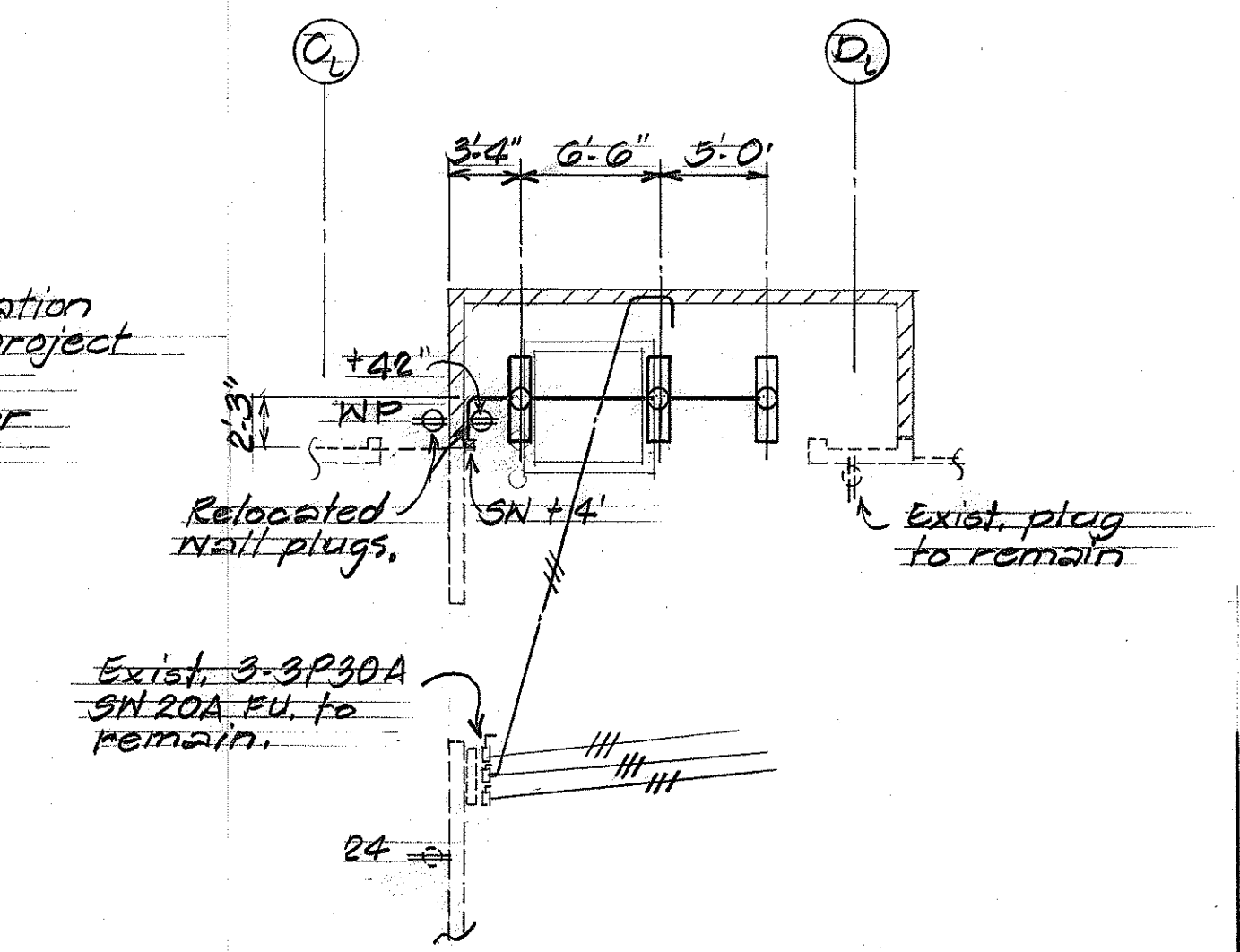
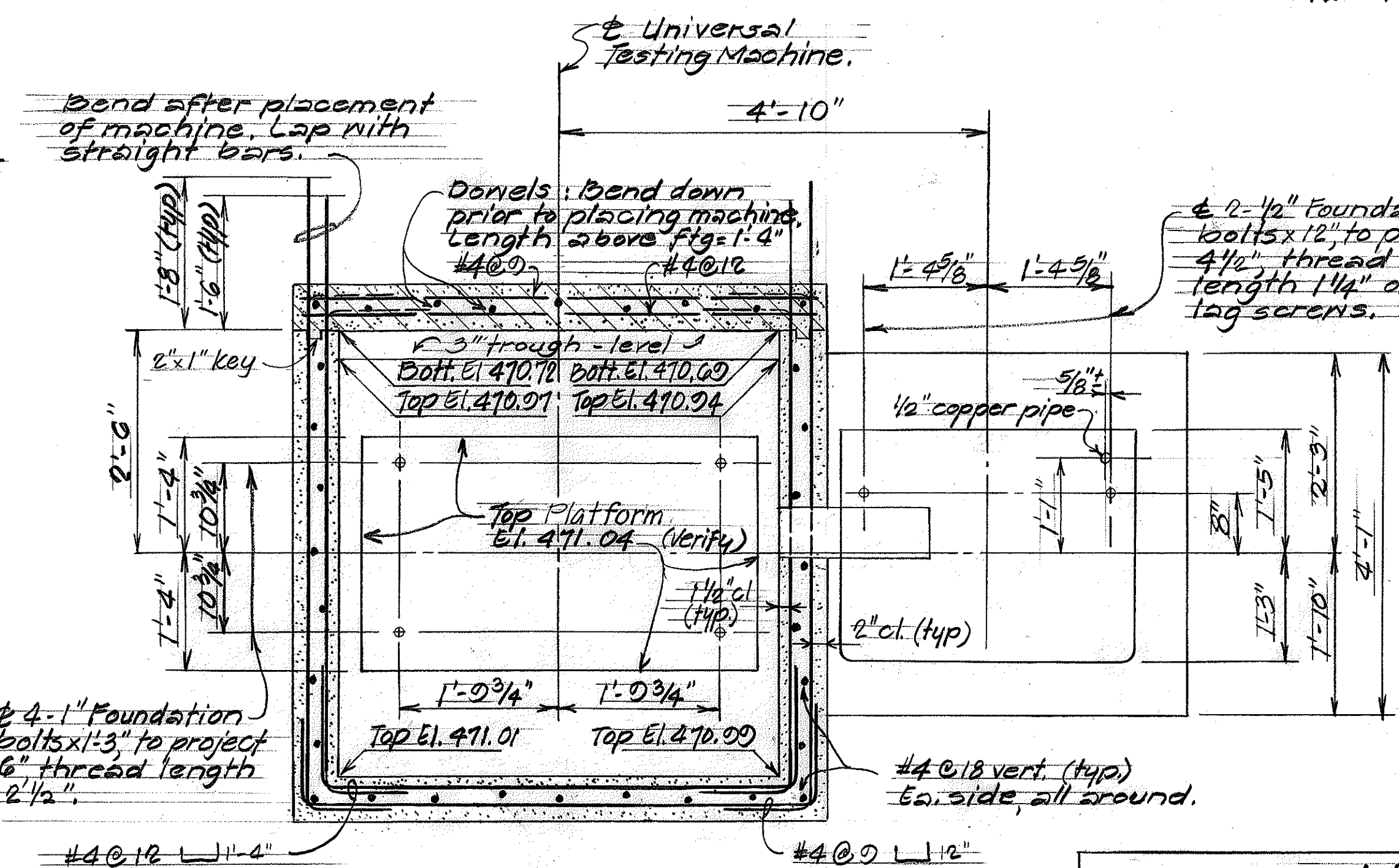
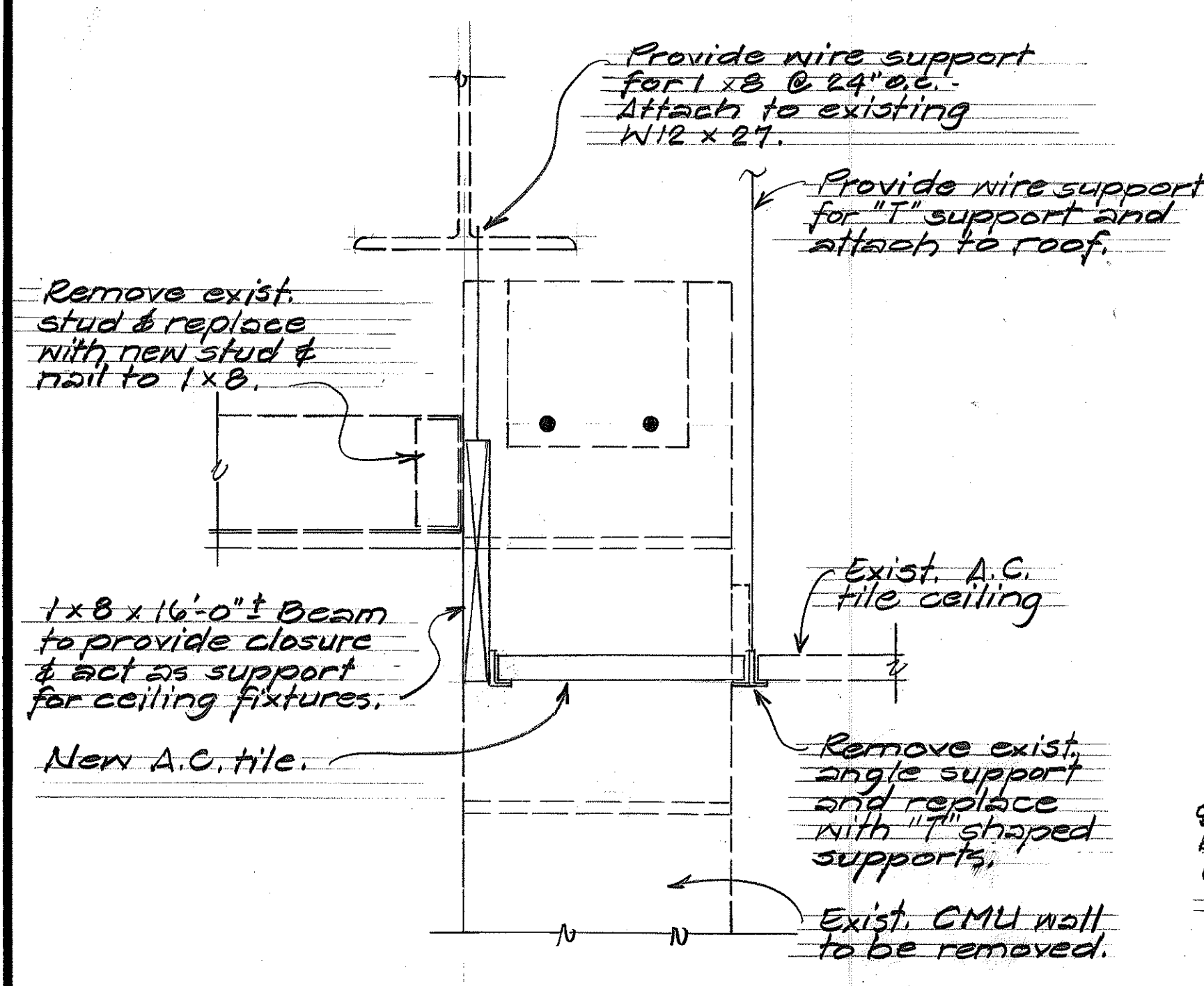
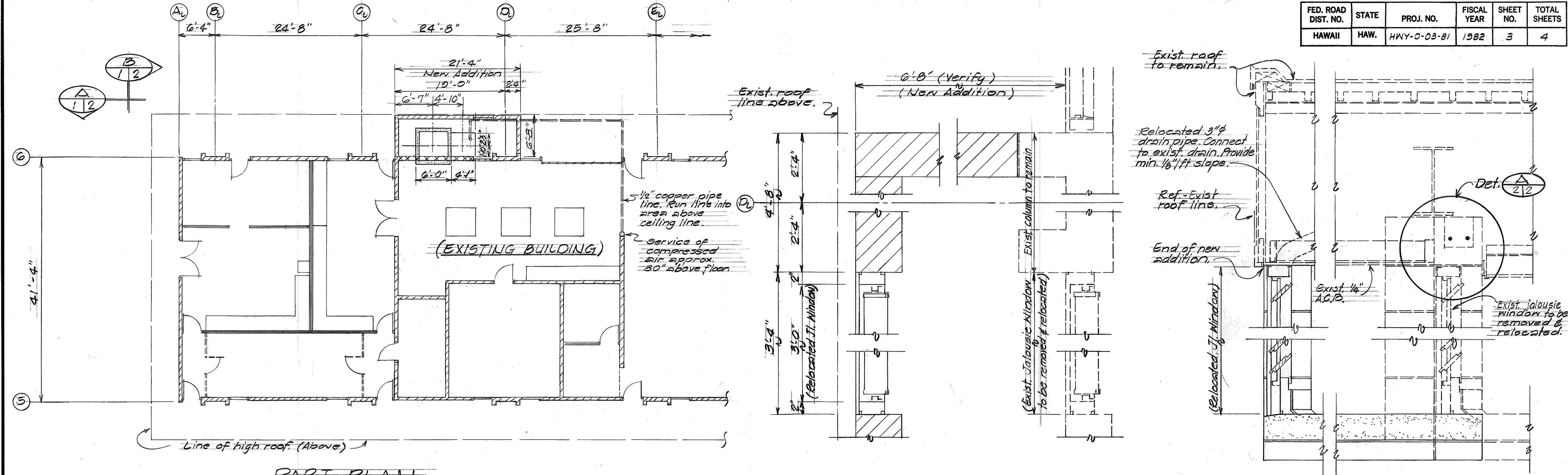
|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |

|         |                           |
|---------|---------------------------|
| 6/16/82 | Added General Note III i. |
| DATE    | REVISION                  |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
**INSTALLATION OF  
UNIVERSAL TESTING MACHINE**  
Project No. HWY-0-03-81

Scale: As Noted  
Date: May, 1982  
SHEET NO. 1 OF 3 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-03-81 | 1982        | 3         | 4            |

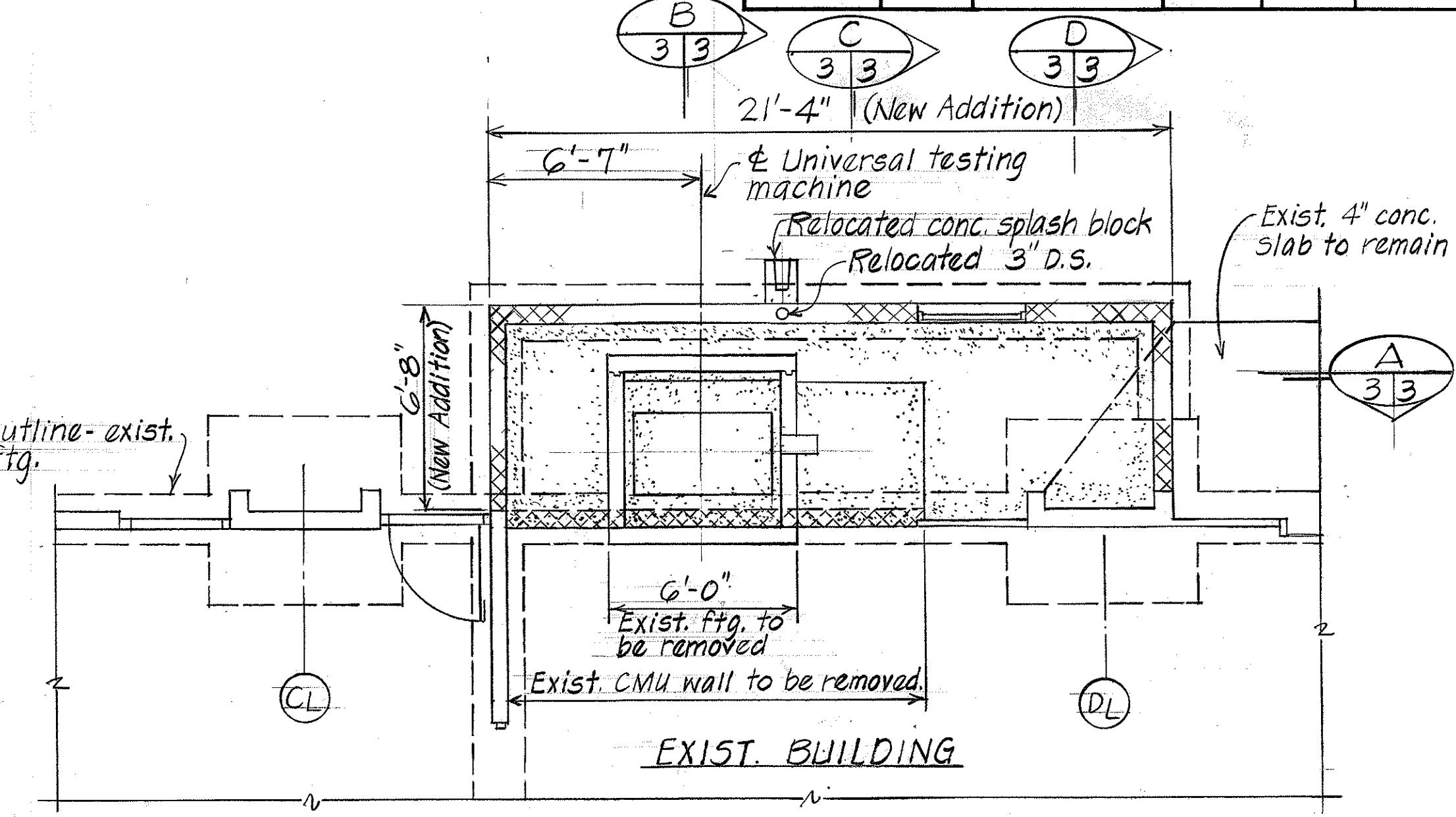
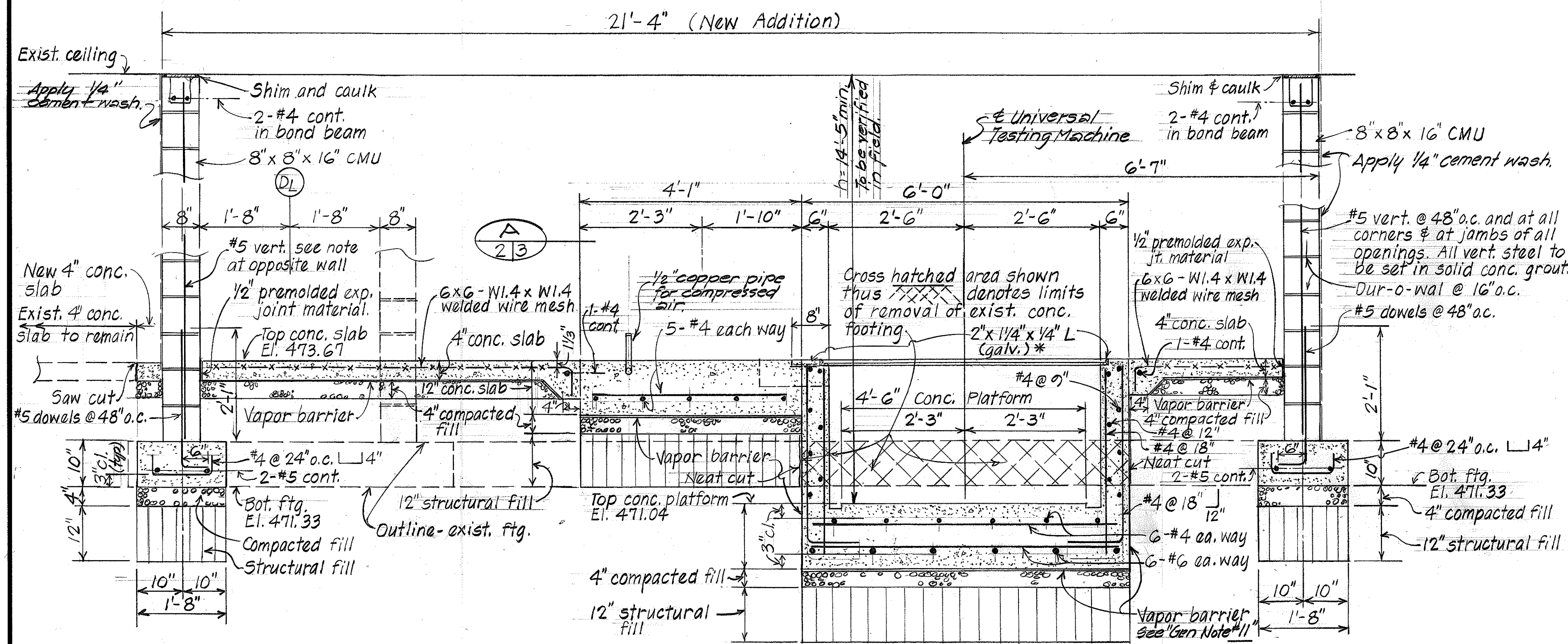


**LUMINAIRE SCHEDULE**

| TYPE  | LAMP DATA        | MANUFACTURER                                      | DESCRIPTION                                                                                                                                                                                                                                     |
|-------|------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-440 | 4-40W<br>R2-0.W. | Daybrite<br>Luvex-4R<br>Sylvania<br>Tartan Series | Ceiling Fluorescent 25°x35° metal louvers, metal sides, baked white enamel on 20 Ga. steel chasses and end, no light leaks at corners or edges of fixtures. Surface mounting. Provide baked white enamel top reflector. A sound rated ballasts. |

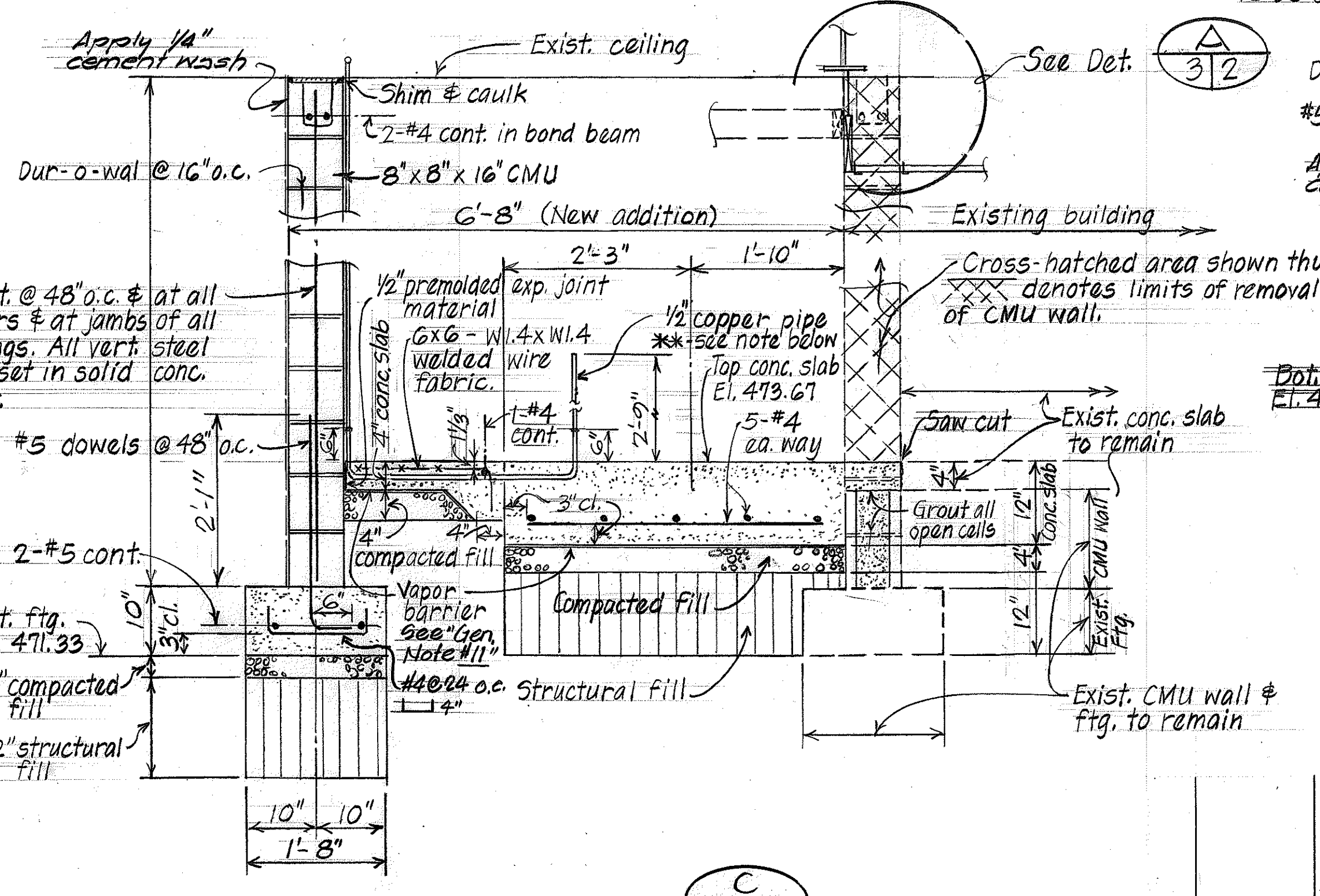
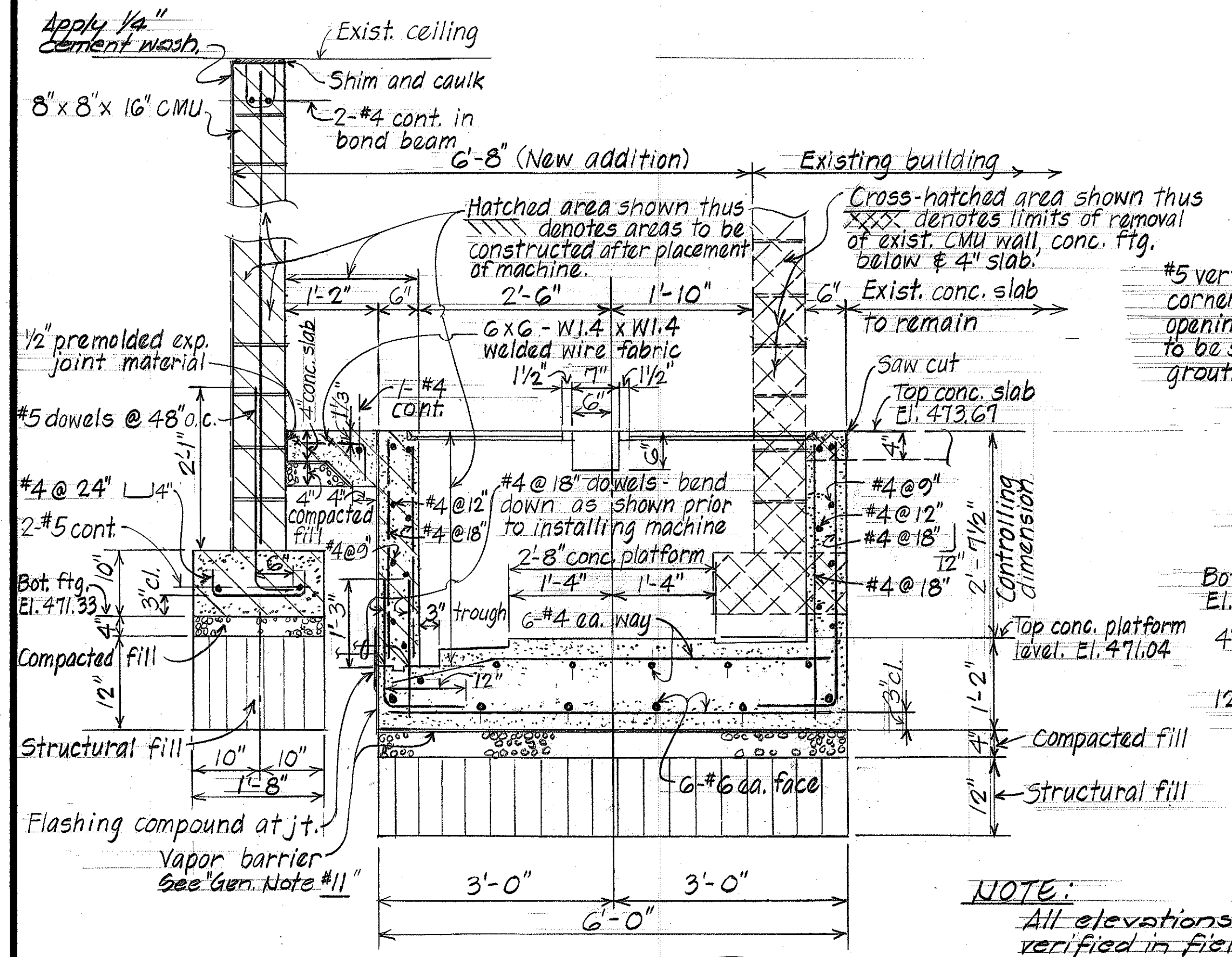
|                                                                                                                                                                                     |                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 6/16/82                                                                                                                                                                             | PART PLAN and SECTION A-2/3 revised to show pipes for compressed air. SECTION A-2/3 dimensions revised from 1'-9 3/4" to 1'-4 5/8". |
| DATE                                                                                                                                                                                | REVISION                                                                                                                            |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>LAND TRANSPORTATION FACILITIES DIVISION<br><b>INSTALLATION OF</b><br><b>UNIVERSAL TESTING MACHINE</b><br>Project No. HWY-0-03-81 |                                                                                                                                     |
| Scale: As Noted                                                                                                                                                                     | Date: May, 1982                                                                                                                     |
| SHEET NO. 2 OF 3 SHEETS                                                                                                                                                             |                                                                                                                                     |

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-0-03-82 | 1982        | 4         | 4            |

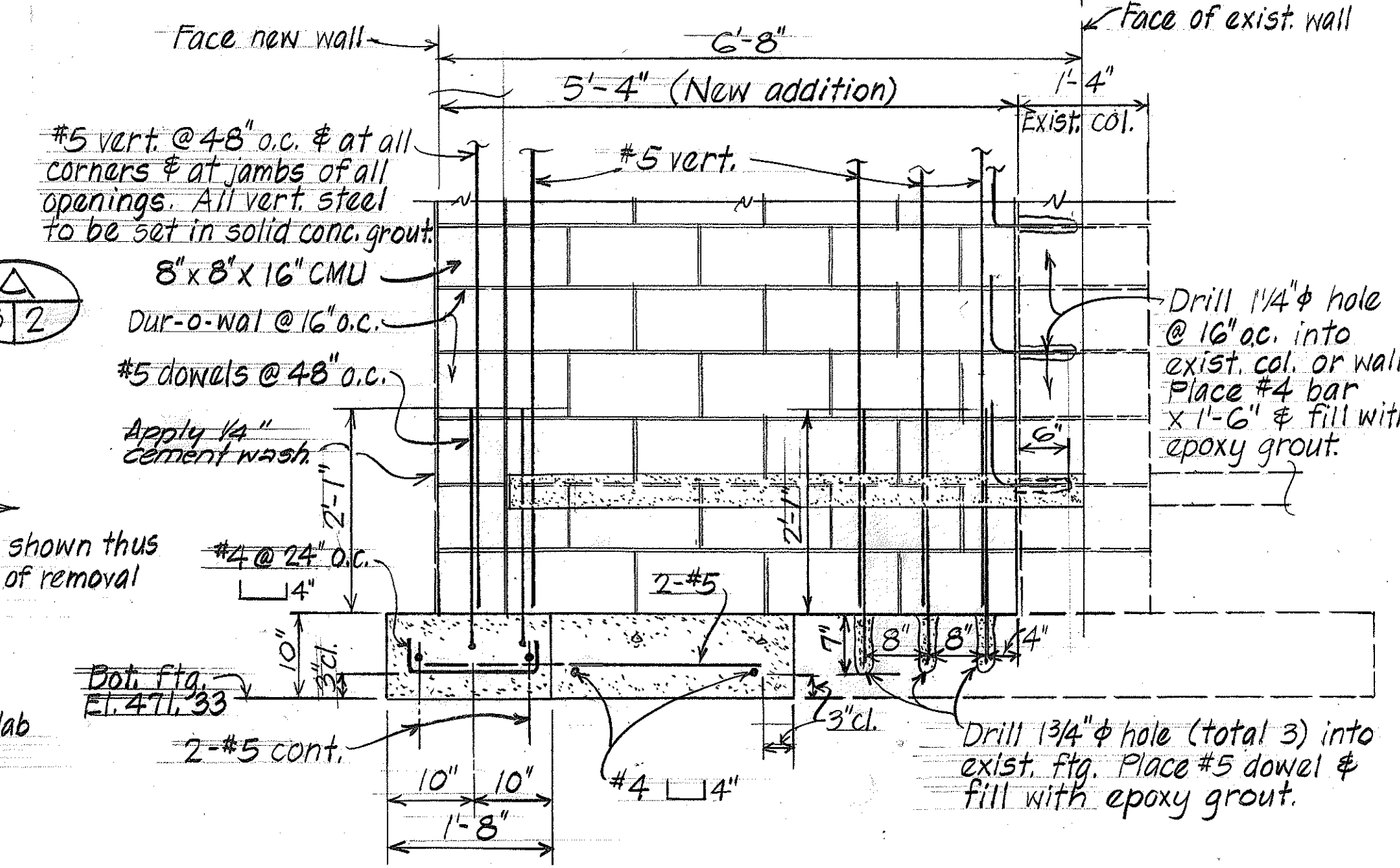


**FOUNDATION PLAN**  
Scale: 1/4" = 1'-0"

**SECTION A-3/3**  
Scale: 3/4" = 1'-0"



**SECTION C-3/3**  
Scale: 3/4" = 1'-0"



**SECTION D-3/3**  
Scale: 3/4" = 1'-0"

**SECTION B-3/3**  
Scale: 3/4" = 1'-0"

**NOTE:**  
All elevations to be verified in field.

**\*\*NOTE:**  
Contractor to make all pipe connections necessary for installation of compressed air. All dimensions are approximate and are to be verified in the field.

6/16/82 SECTIONS A-3/3 & C-3/3 revised to show installation of copper pipes for compressed air. Added note for compressed air. Additions to Vapor Barrier.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

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Scale: As Noted Date: May, 1982

SHEET NO. 3 OF 3 SHEETS