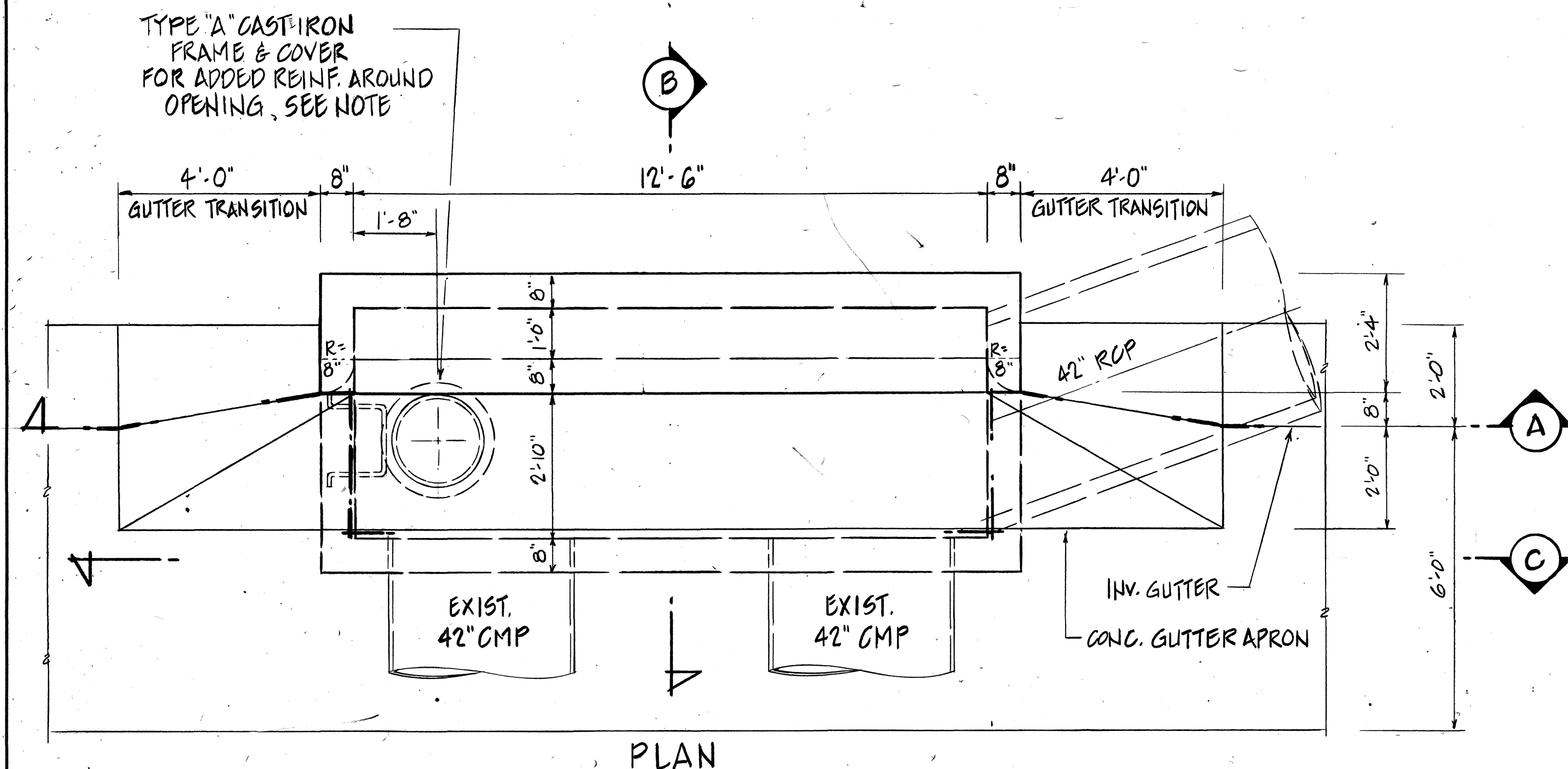
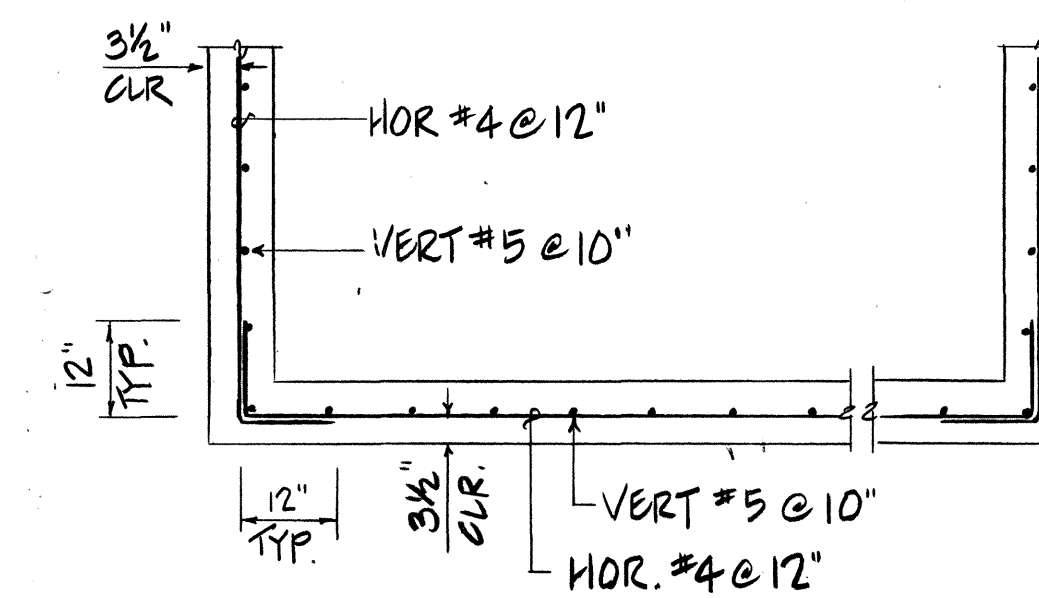
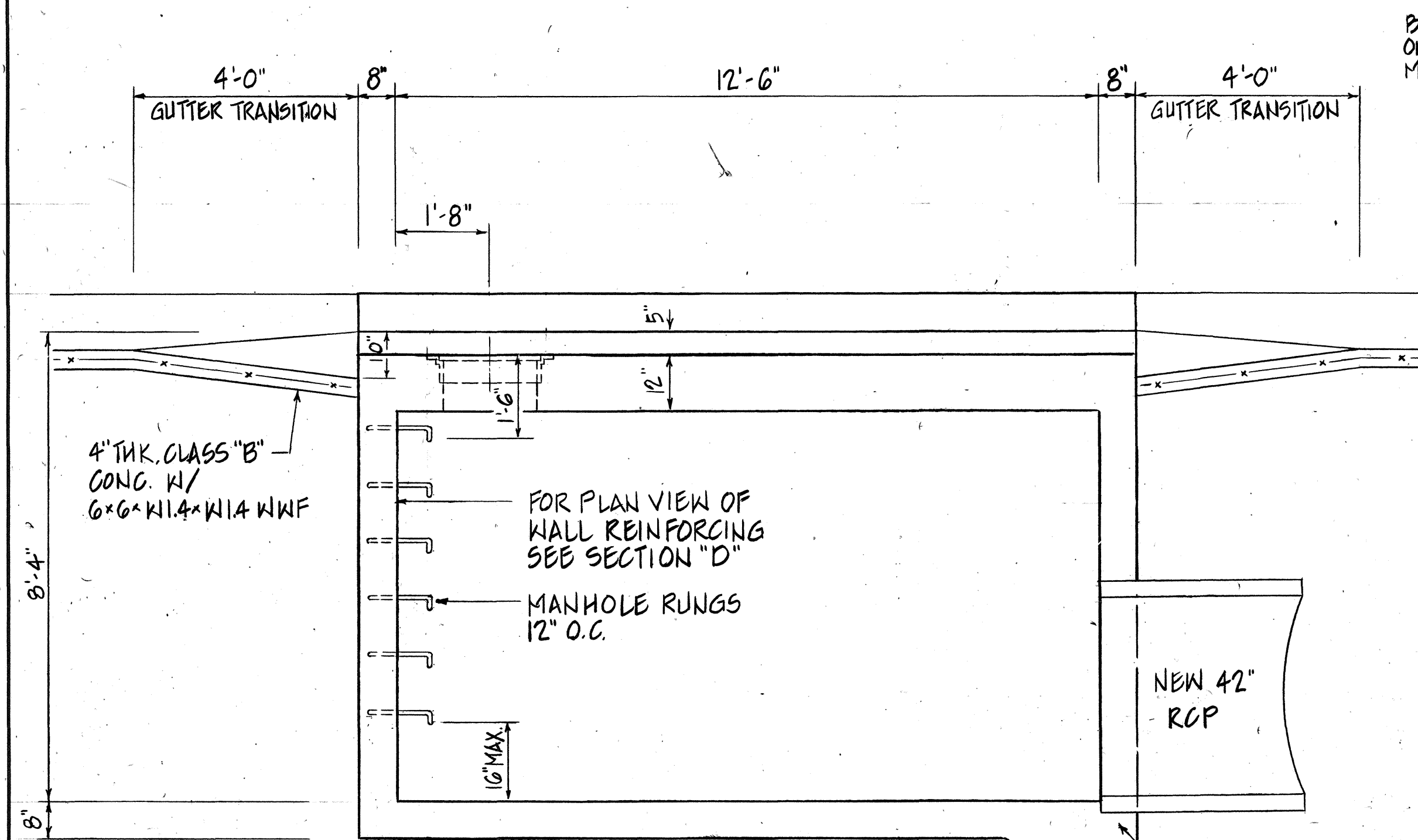




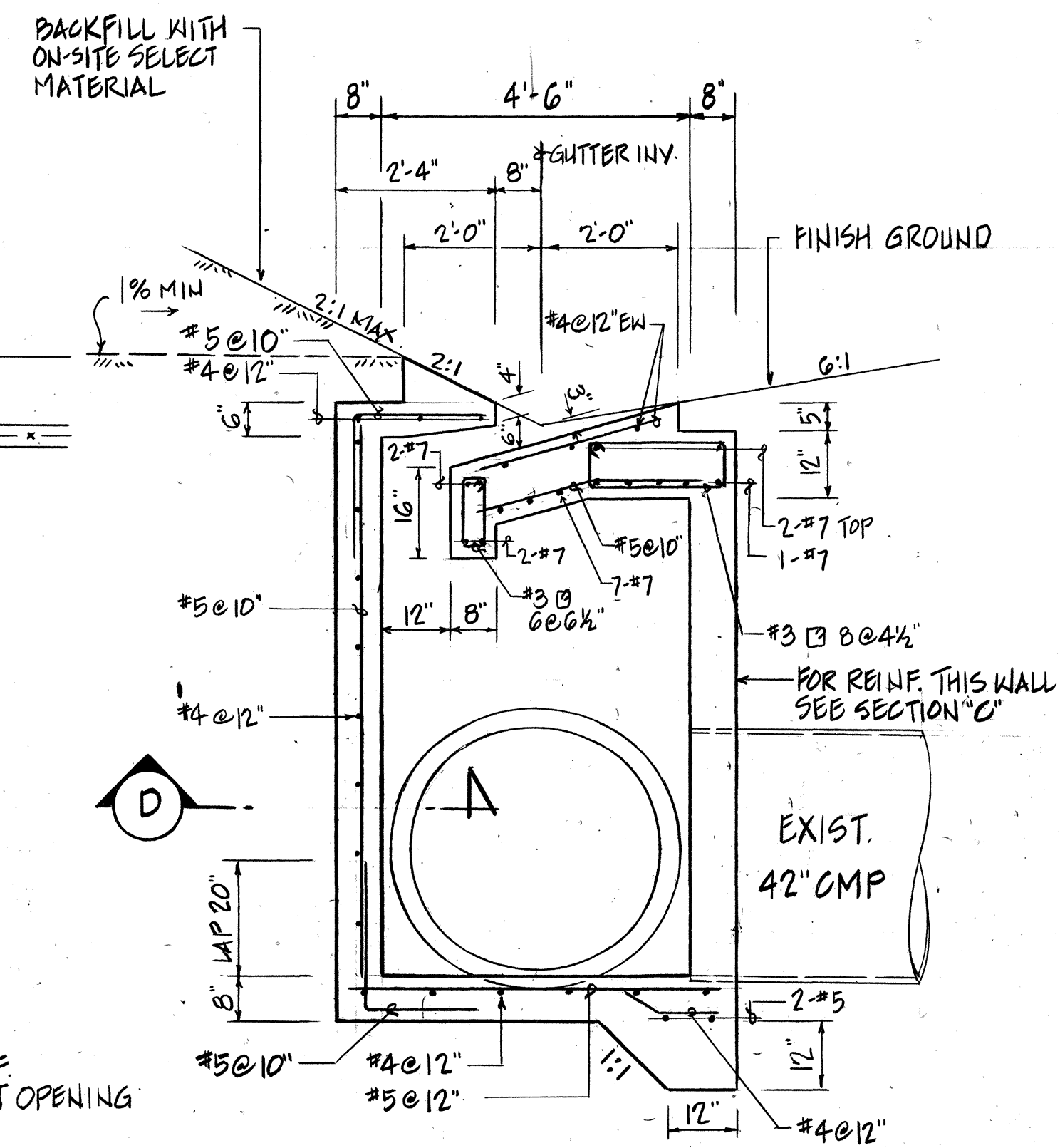
PLAN



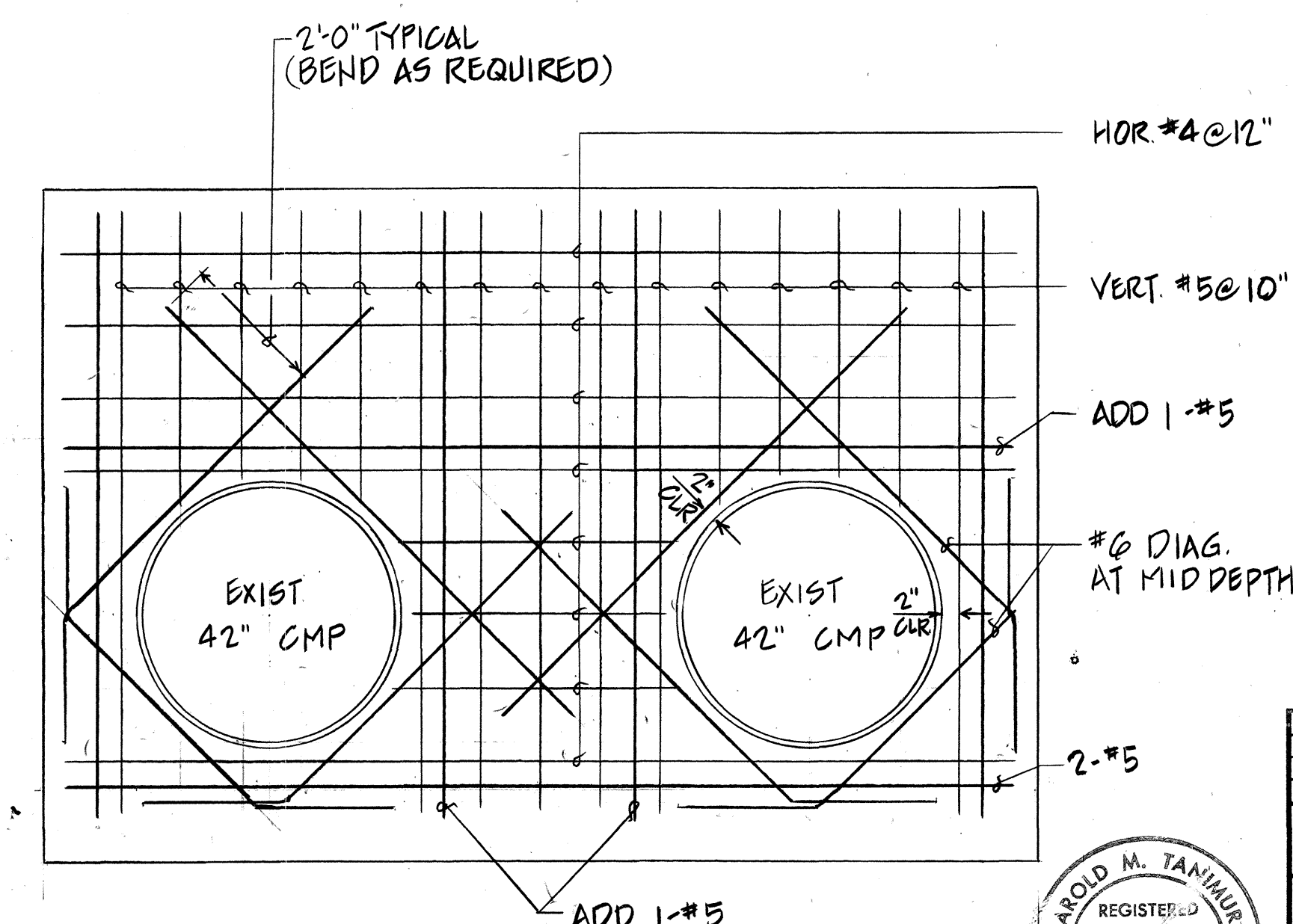
SECTION "D"



SECTION "A"



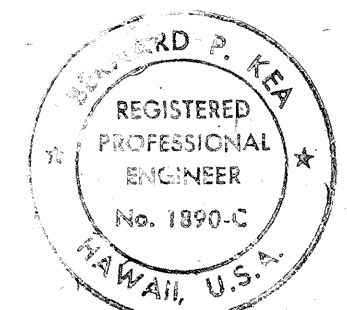
SECTION "B"



SECTION "C"

**NOTE**  
FOR ADDITIONAL REINFORCING AND CATCH BASIN DETAILS, SEE "STANDARD PLANS", TYPICAL REINFORCING DETAILS FOR CATCH BASINS, & TYPE "D-2" CATCH BASIN, STATE OF HAWAII.

CATCH BASIN "B-2"  
SCALE: 1/2"=1'-0"



|                                                                                                                                                |             |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|
| REVISION DATE                                                                                                                                  | DESCRIPTION | MADE BY | APPROVED |
| <b>COMMUNITY PLANNING INCORPORATED</b><br>CIVIL ENGINEERS — SURVEYORS — CONSULTANT PLANNERS                                                    |             |         |          |
| <b>WEST BEACH RESORT</b><br>HONOLULU, EWA, OAHU, HAWAII<br>DEVELOPER: WEST BEACH ESTATES<br>TAX MAP KEY: 9-1-15: POR. 3<br>9-2-03: POR. 2 & 69 |             |         |          |
| <b>FARRINGTON HIGHWAY INTERCHANGE</b><br><b>DRAINAGE DETAILS</b><br><b>CATCH BASIN "B-2"</b>                                                   |             |         |          |
| APPROVED:                                                                                                                                      |             |         | DATE     |
|                                                                                                                                                |             |         |          |
| REGISTERED PROFESSIONAL ENGINEER                                                                                                               |             |         |          |



SCALE:  $1/2" = 1'-0"$



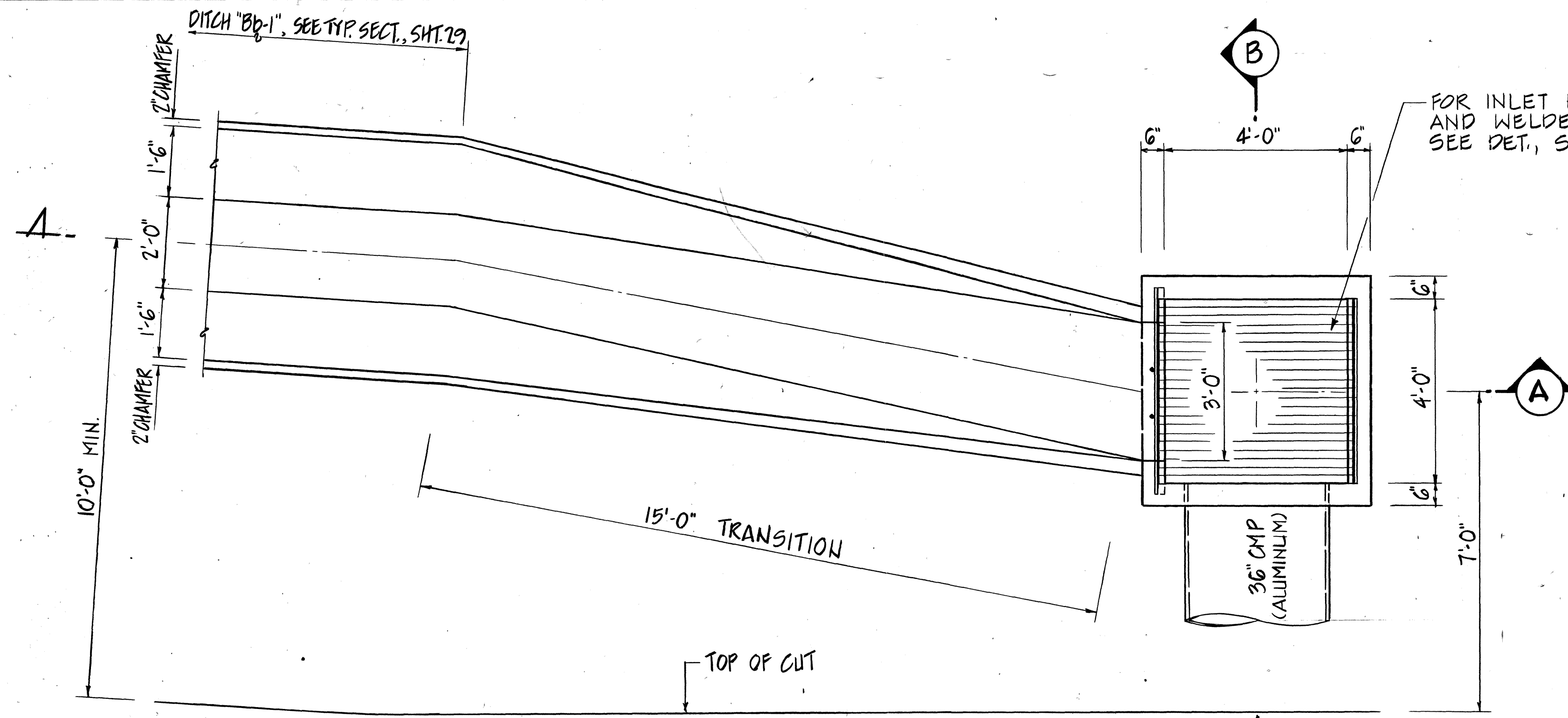
1. CONCRETE SHALL BE CLASS "A"  
REBAR TO BE  $f_y = 40$  KSI GRADE
2. 2" CLEARANCE BETWEEN PIPE & STEEL.
3. FOR WALL REINFORCING AROUND PIPES,  
SEE "STANDARD PLANS", STATE OF HAWAII,  
DEPT. OF TRANSPORTATION, DATED 1986.
4. FOR RING DETAILS & SPACING,  
SEE "STANDARD PLANS", STATE OF HAWAII,  
DEPT. OF TRANSPORTATION, DATED 1986.
5. FOR CMP ANCHORING DETAILS AT INLET WALLS,  
SEE "STANDARD PLANS", STATE OF HAWAII,  
DEPT. OF TRANSPORTATION, DATED 1986.

6. GALVANIZE ALL EXPOSED METAL AFTER FABRICATION.
7. RCP PIPE MAY BE SUBSTITUTED IN LIEU OF CMP (ALUMINUM).

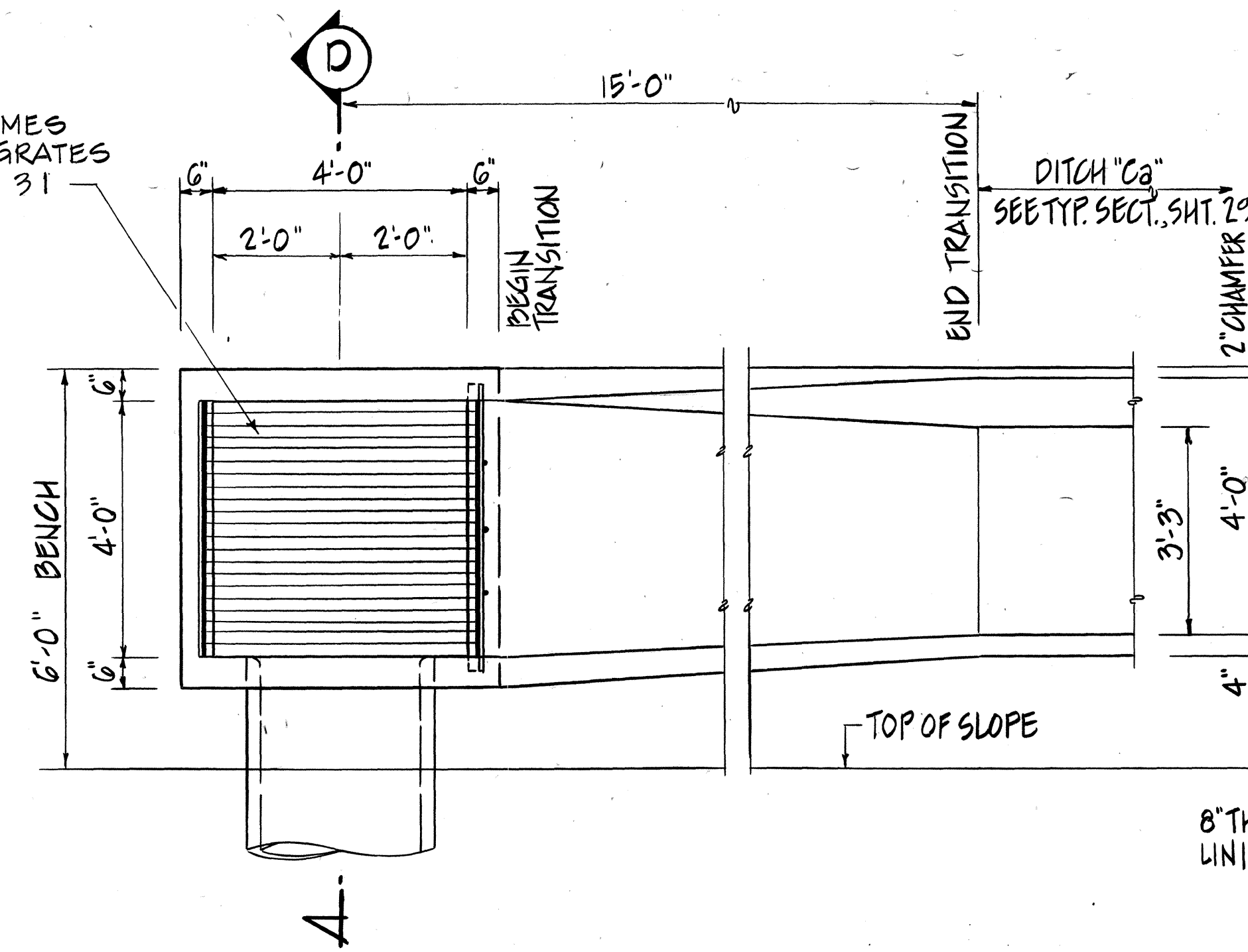


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ME OR UNDER MY SUPERVISION

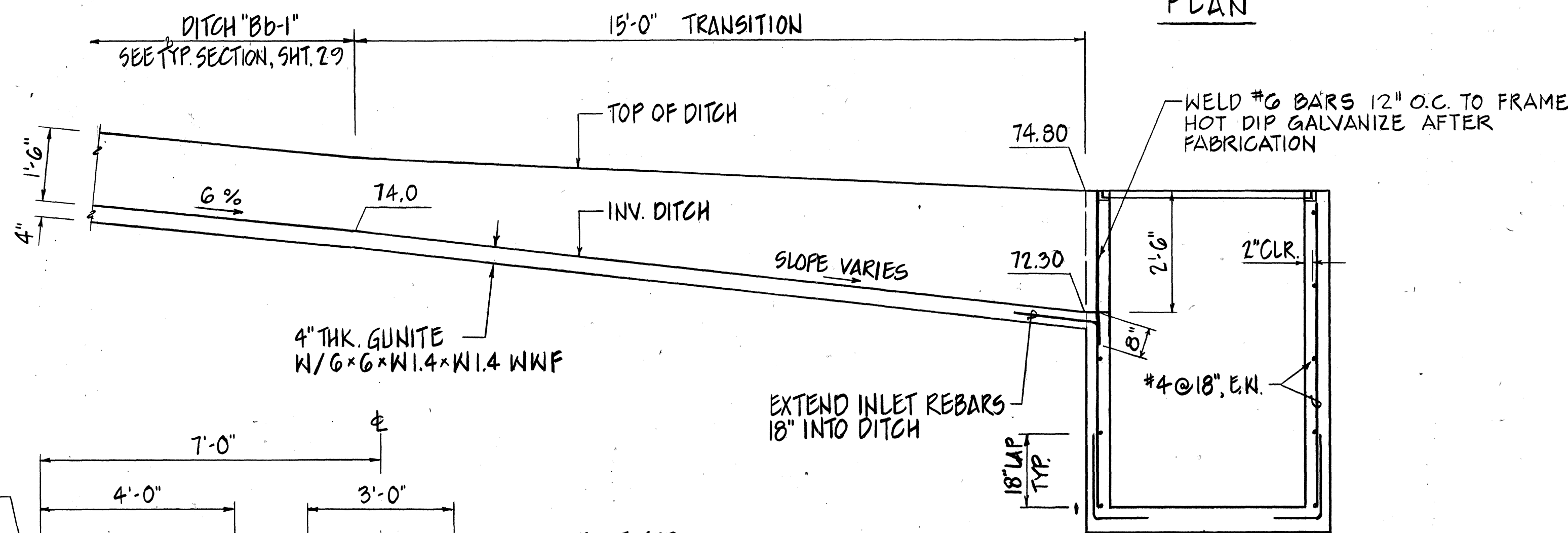
|                                                                                                                                                                                                                                                                   |             |         |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|
|                                                                                                                                                                                                                                                                   |             |         |          |
| REVISION DATE                                                                                                                                                                                                                                                     | DESCRIPTION | MADE BY | APPROVED |
| <b>COMMUNITY PLANNING INCORPORATED</b><br>CIVIL ENGINEERS — SURVEYORS — CONSULTANT PLANNERS                                                                                                                                                                       |             |         |          |
| <h2 style="margin: 0;">WEST BEACH RESORT</h2> <p style="margin: 10px 0;">HONOLULU, EWA, OAHU, HAWAII</p> <p style="margin: 0;">DEVELOPER: WEST BEACH ESTATES</p> <p style="margin: 0;">TAX MAP KEY: 9-1-15: POR. 3<br/>9-2-03: POR. 2 &amp; 69</p>                |             |         |          |
| <h3 style="margin: 0;">FARRINGTON HIGHWAY INTERCHANGE</h3>                                                                                                                                                                                                        |             |         |          |
| <h2 style="margin: 0;">DRAINAGE DETAILS</h2> <h3 style="margin: 0;">SPECIAL INLET "B-4"</h3>                                                                                                                                                                      |             |         |          |
| APPROVED: _____ DATE _____                                                                                                                                                                                                                                        |             |         |          |
| <div style="display: flex; justify-content: center; align-items: center;"> <div style="flex: 1; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="margin-left: 10px;">             REGISTERED PROFESSIONAL ENGINEER           </div> </div> |             |         |          |



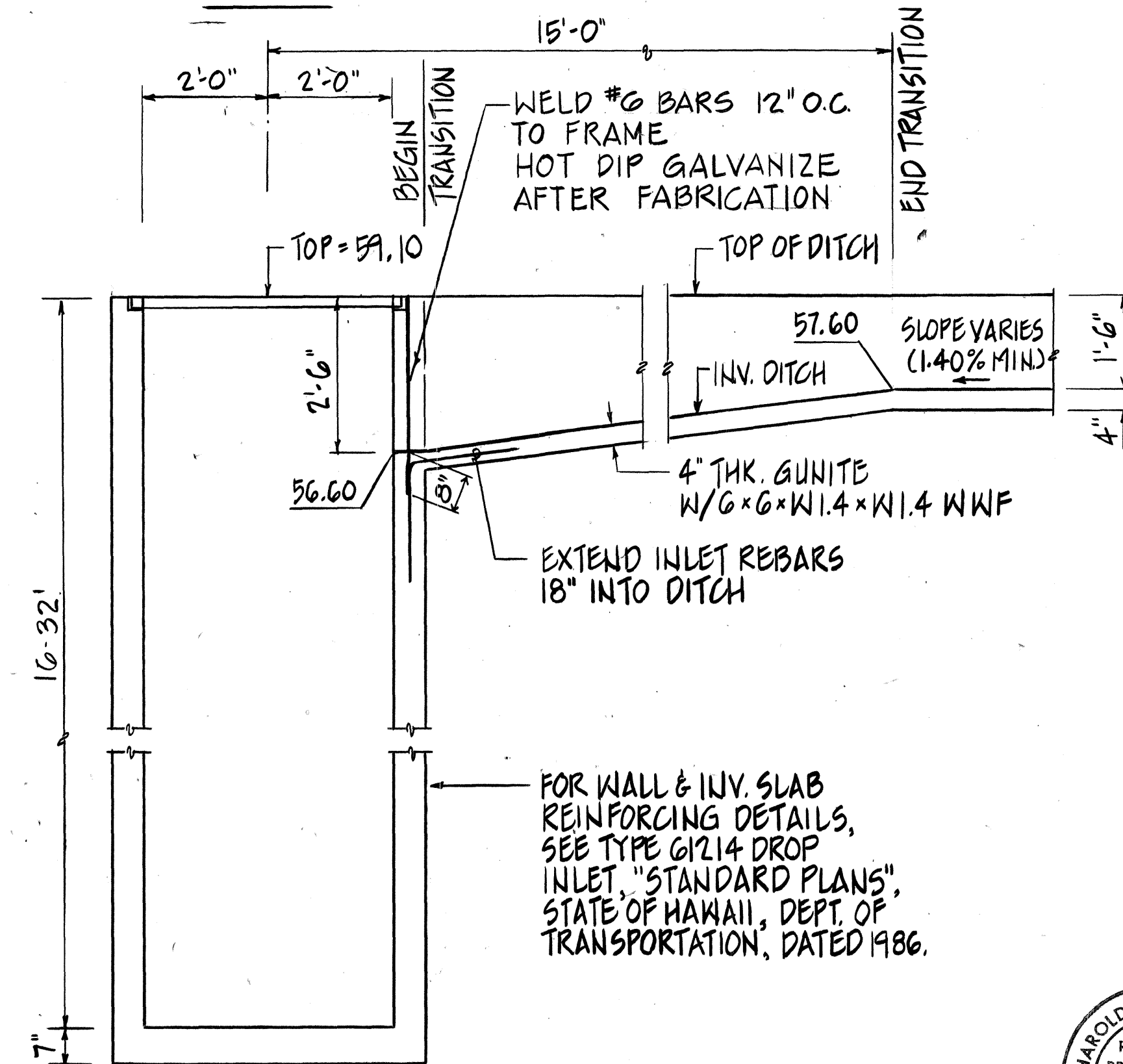
PLAN



PLAN



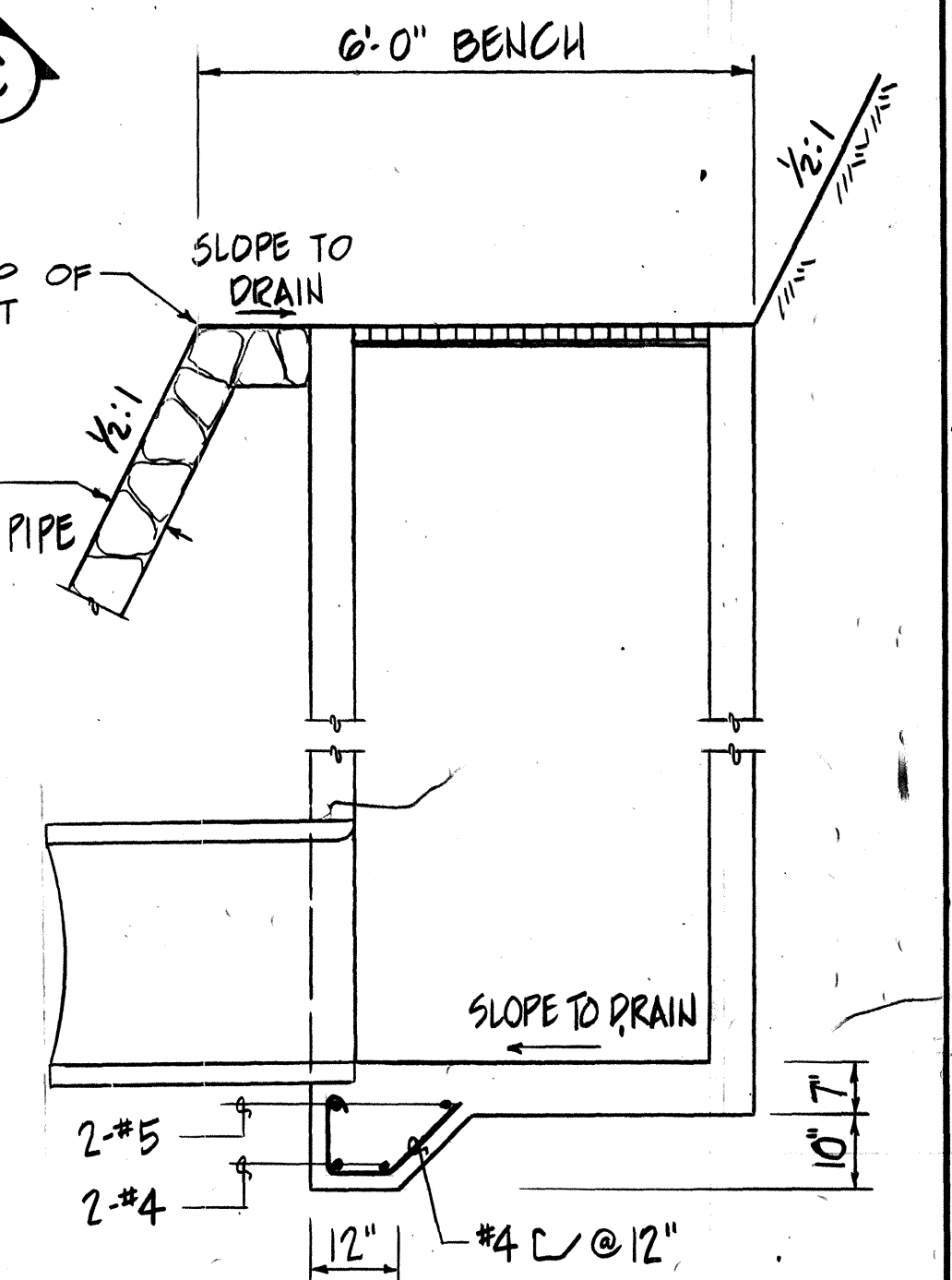
SECTION "A"



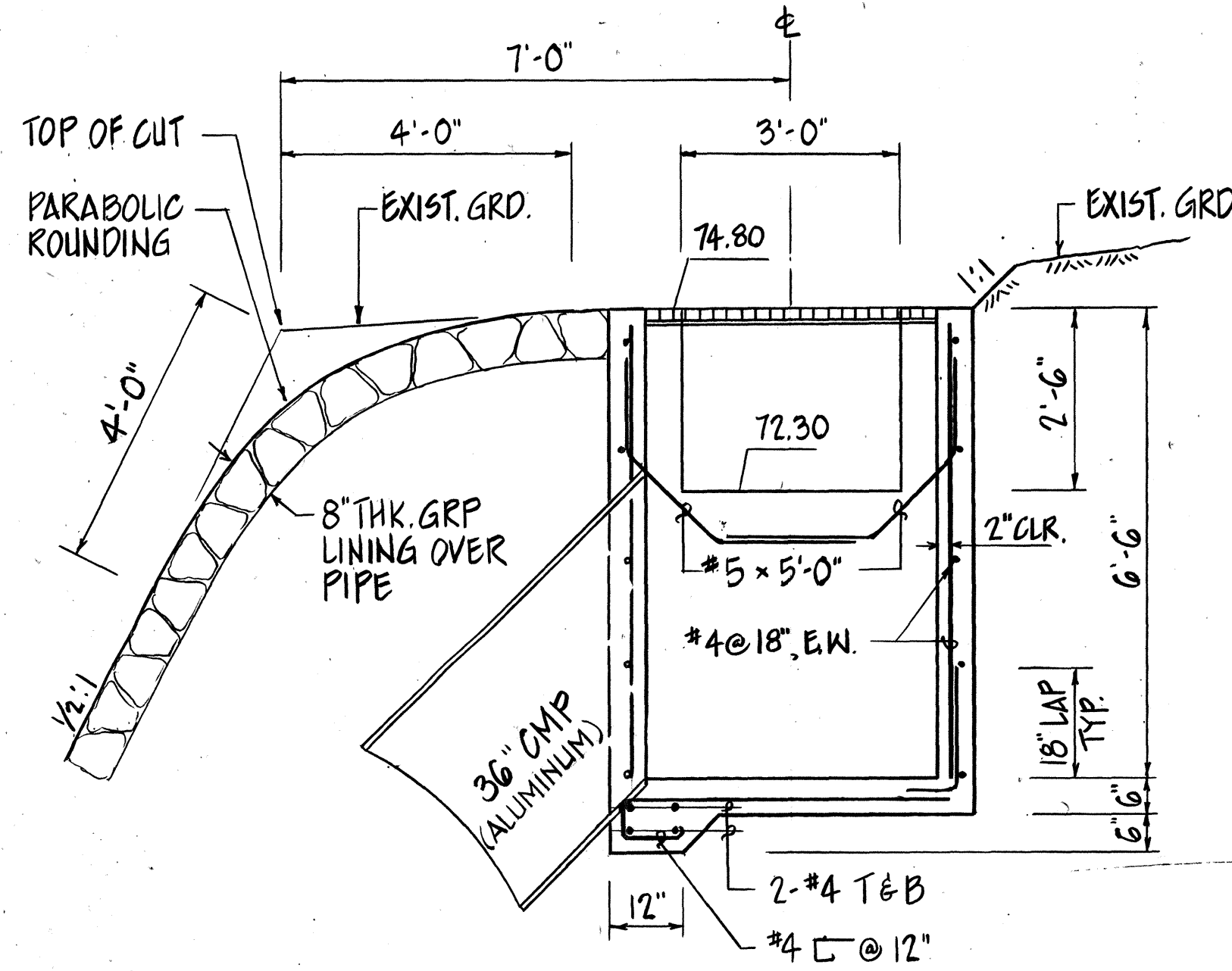
SECTION "C"

SPECIAL INLET "C-2"

SCALE: 1/2" = 1'-0"



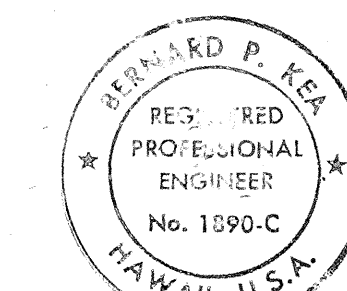
SECTION "D"



SECTION "B"

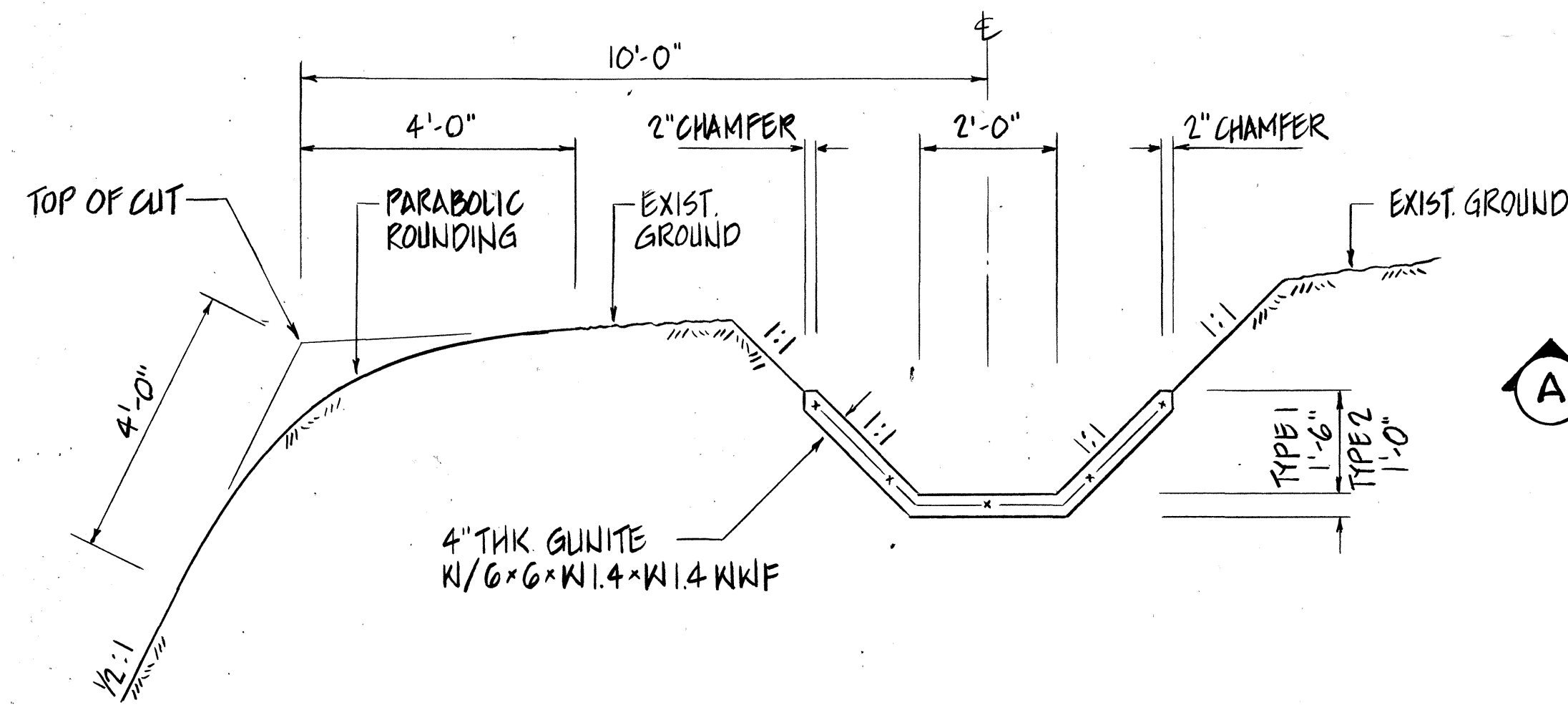
FOR INV. SLAB REINFORCING  
DETAILS, SEE TYPE G1214  
DROP INLET, "STANDARD  
PLANS", STATE OF HAWAII,  
DEPT. OF TRANSPORTATION,  
DATED 1986.

FOR WALL & INV. SLAB  
REINFORCING DETAILS,  
SEE TYPE G1214 DROP  
INLET, "STANDARD PLANS",  
STATE OF HAWAII, DEPT. OF  
TRANSPORTATION, DATED 1986.

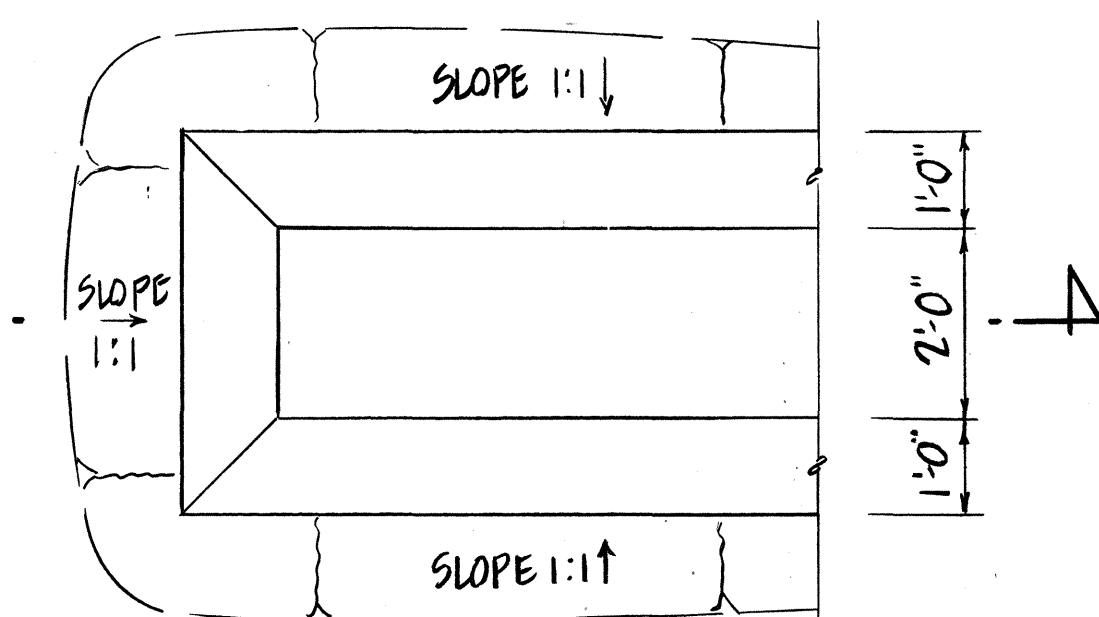


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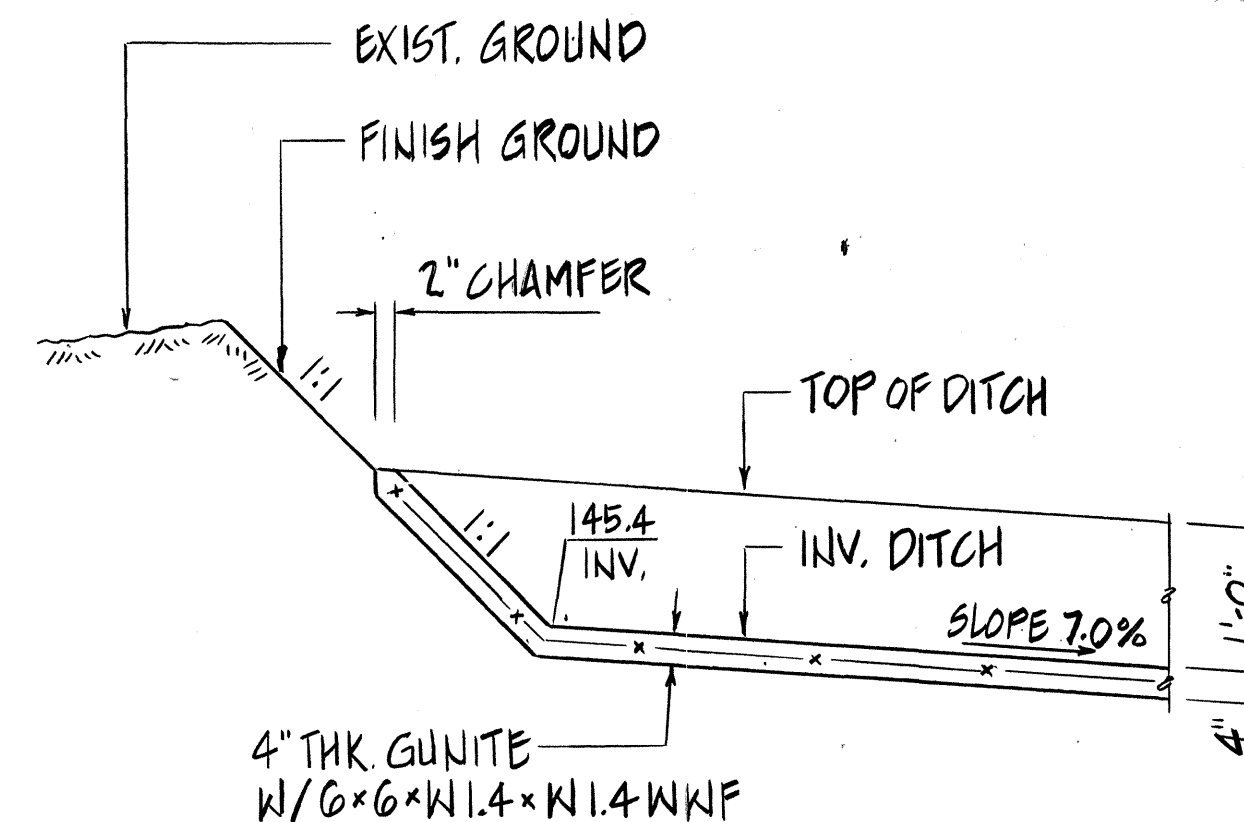
|                                                                                                                                                |             |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|
| REVISION DATE                                                                                                                                  | DESCRIPTION | MADE BY | APPROVED |
| <b>COMMUNITY PLANNING INCORPORATED</b><br>CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS                                                    |             |         |          |
| <b>WEST BEACH RESORT</b><br>HONOLULU, EWA, OAHU, HAWAII<br>DEVELOPER: WEST BEACH ESTATES<br>TAX MAP KEY: 9-1-15: POR. 3<br>9-2-03: POR. 2 & 69 |             |         |          |
| <b>FARRINGTON HIGHWAY INTERCHANGE</b><br><b>DRAINAGE DETAILS</b><br><b>SPECIAL INLETS</b>                                                      |             |         |          |
| APPROVED: <i>Bernard P. Kea</i><br>REGISTERED PROFESSIONAL ENGINEER                                                                            |             |         |          |



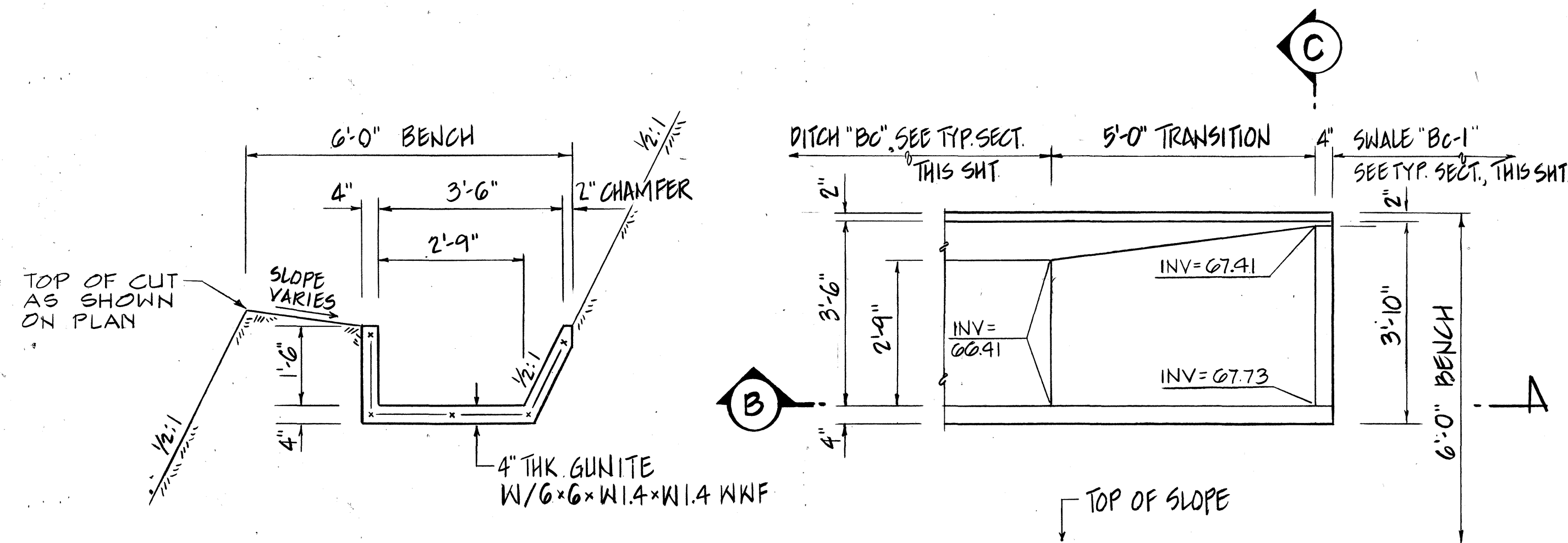
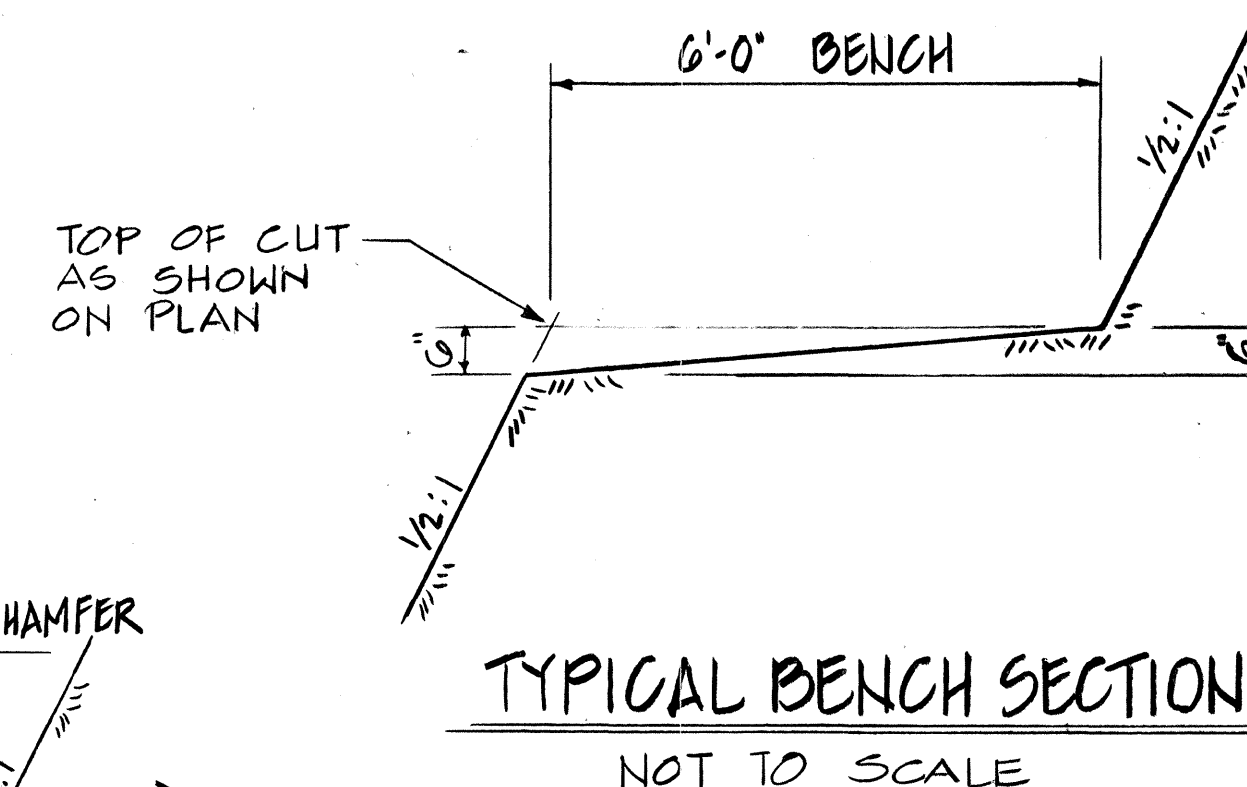
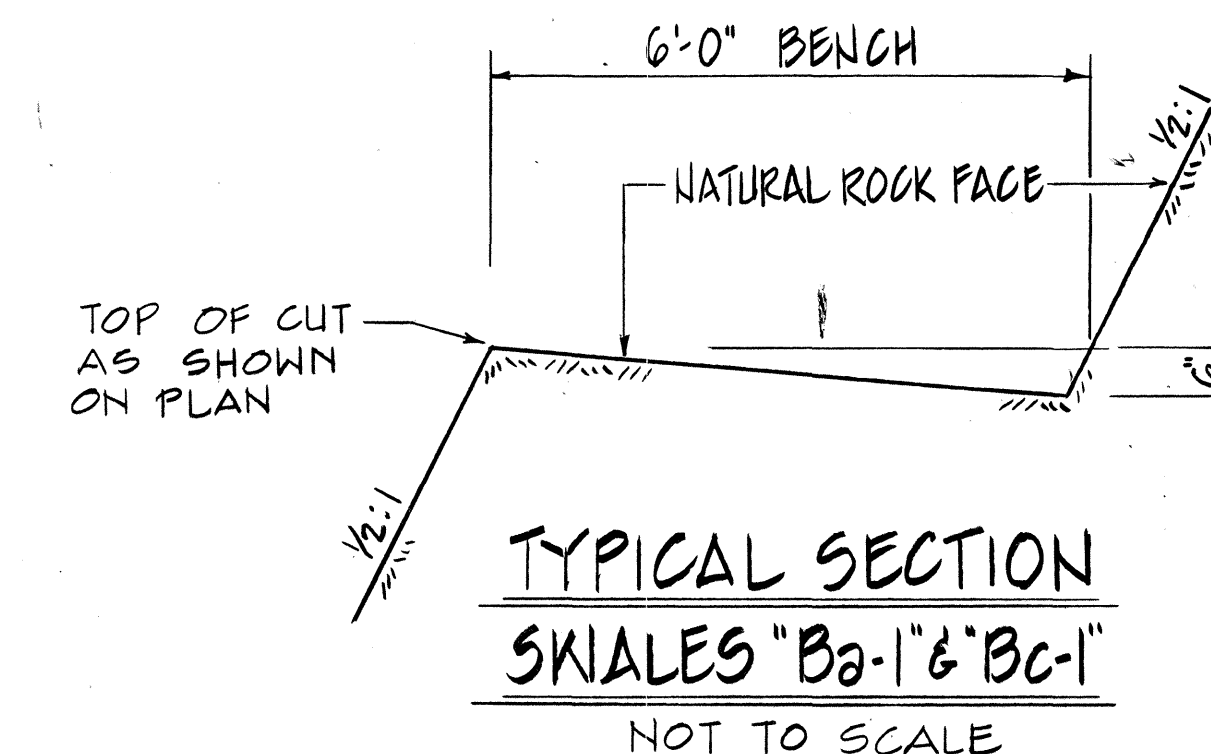
TYPES 1 & 2  
TYPICAL SECTION - CONC. DITCH "Bb-1"  
SCALE: 1/2"=1'-0"



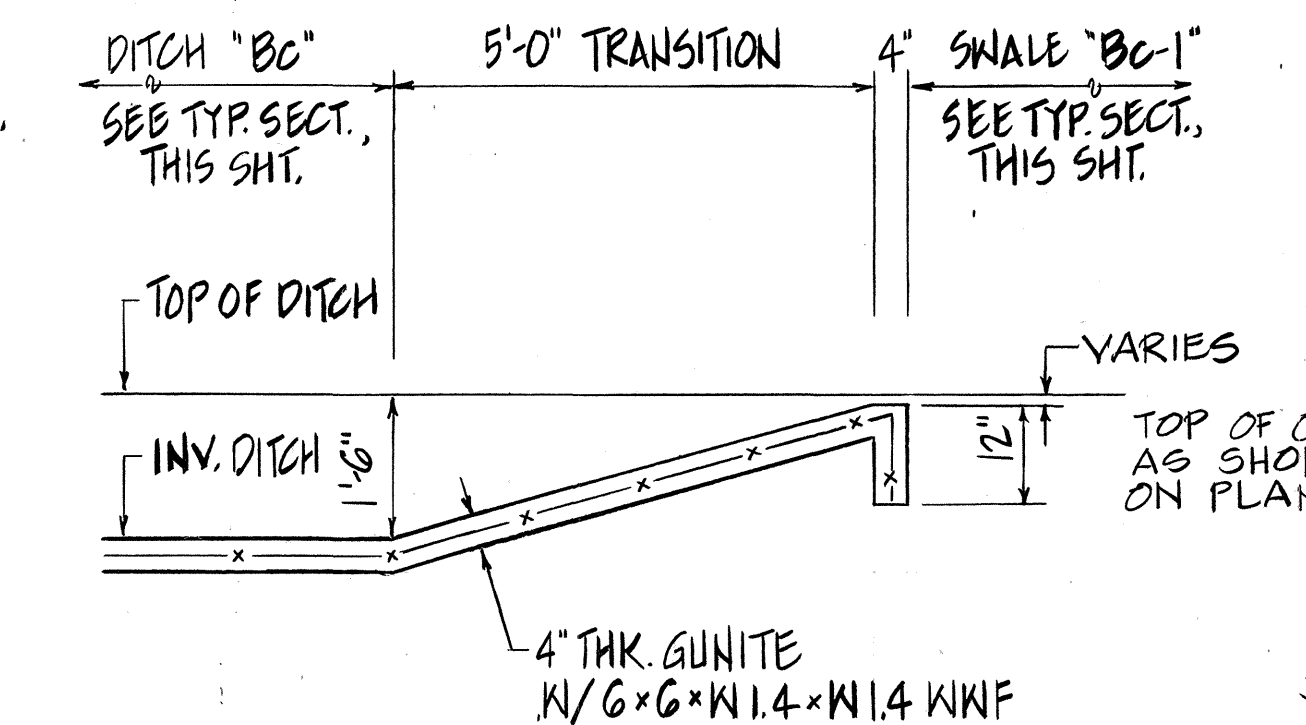
PLAN



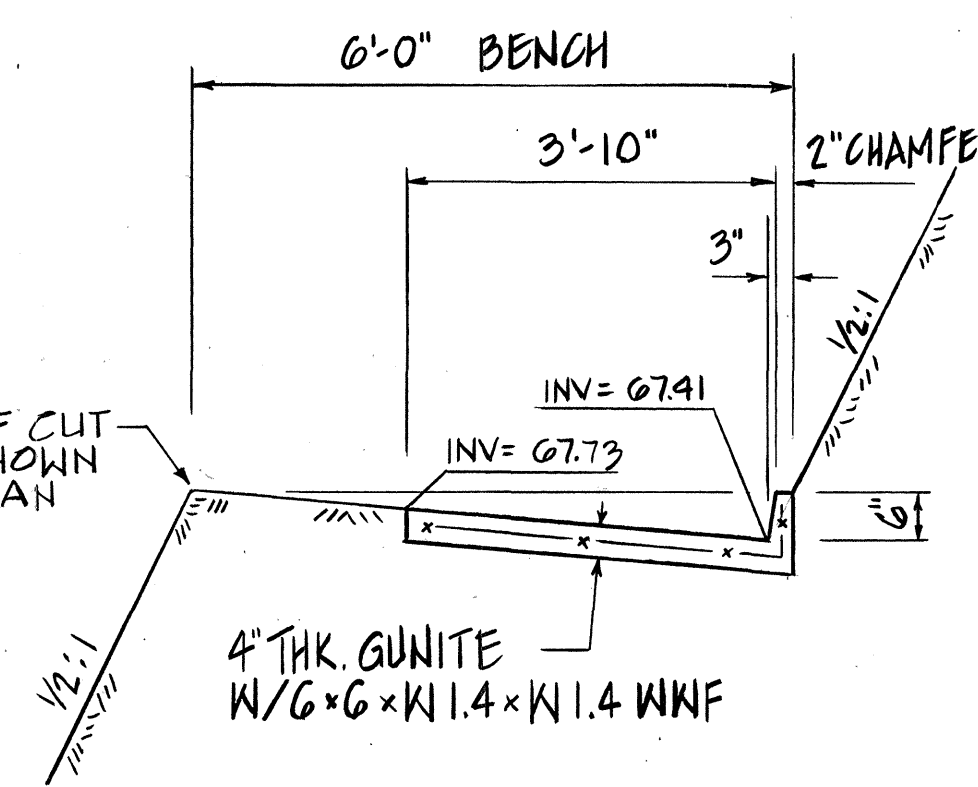
SECTION "A"  
DETAIL - END CONC. DITCH "Bb-1"  
SCALE: 1/2"=1'-0"



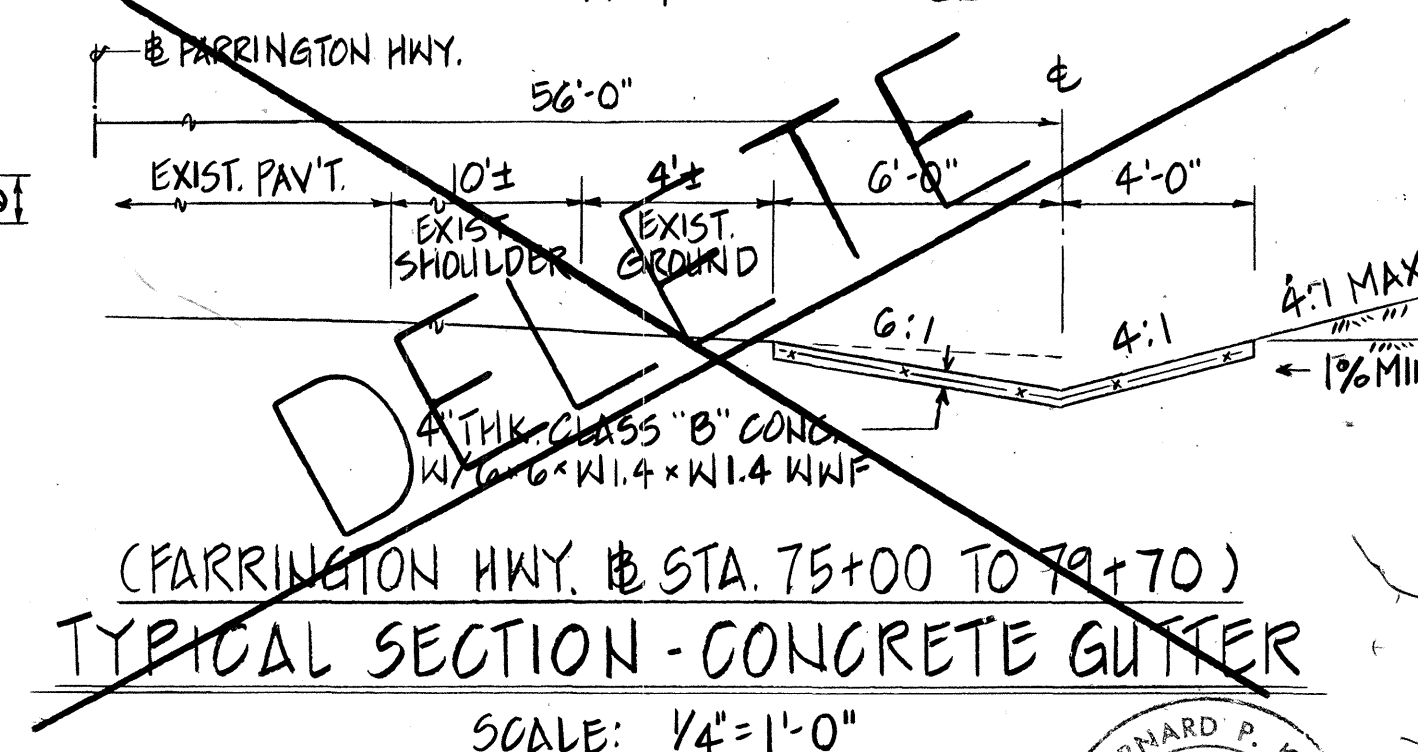
(RAMP "C" - STA. 10+15 TO 11+65)  
TYPICAL SECTION - CONC. DITCH "Bc"  
SCALE: 1/2"=1'-0"



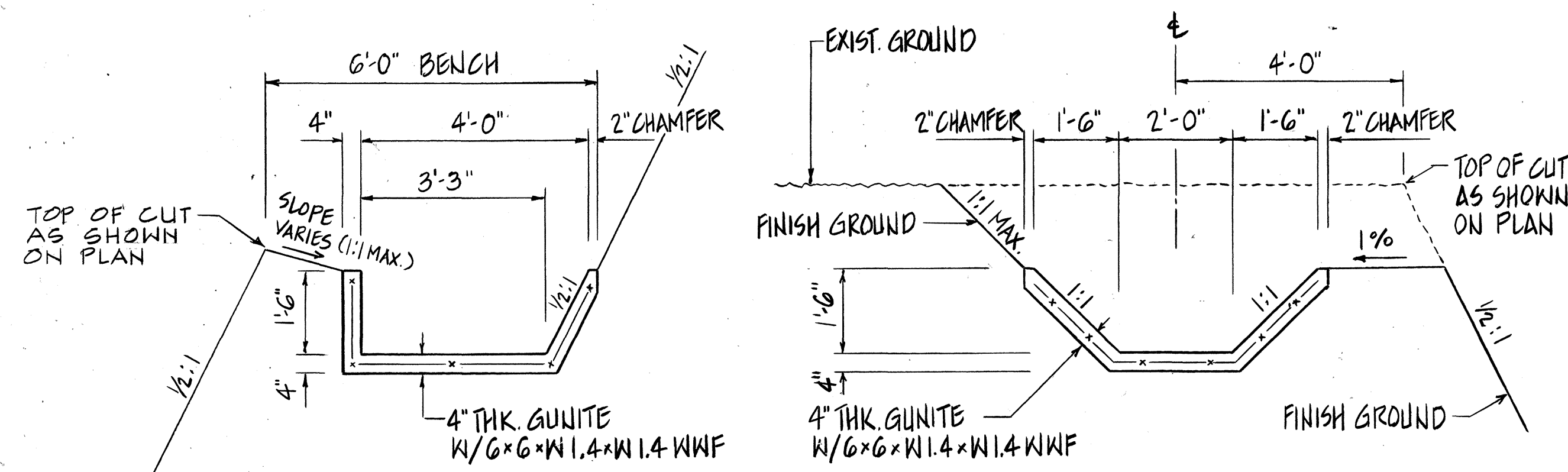
SECTION "B"  
DETAIL - END CONC. DITCH "Bc"  
SCALE: 1/2"=1'-0"



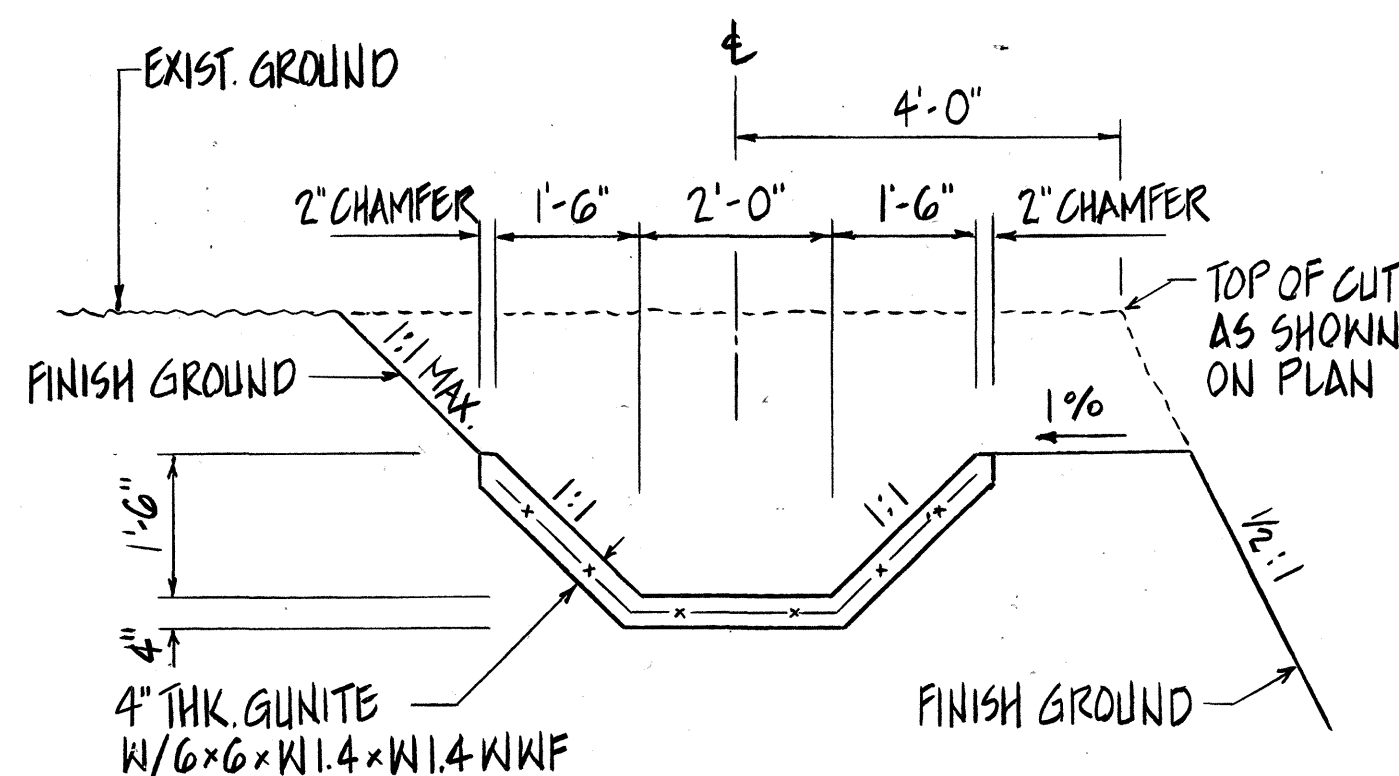
SECTION "C"



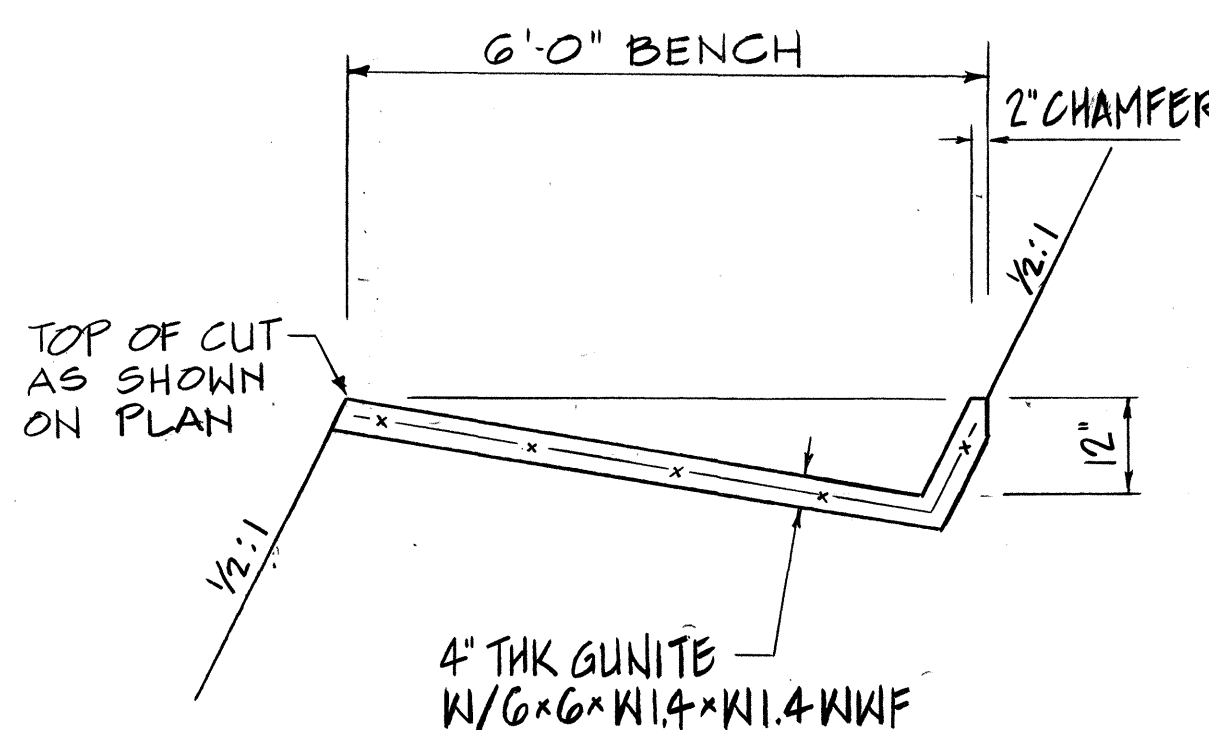
(FARRINGTON HWY. STA. 75+00 TO 79+70)  
TYPICAL SECTION - CONCRETE GUTTER  
SCALE: 1/4"=1'-0"



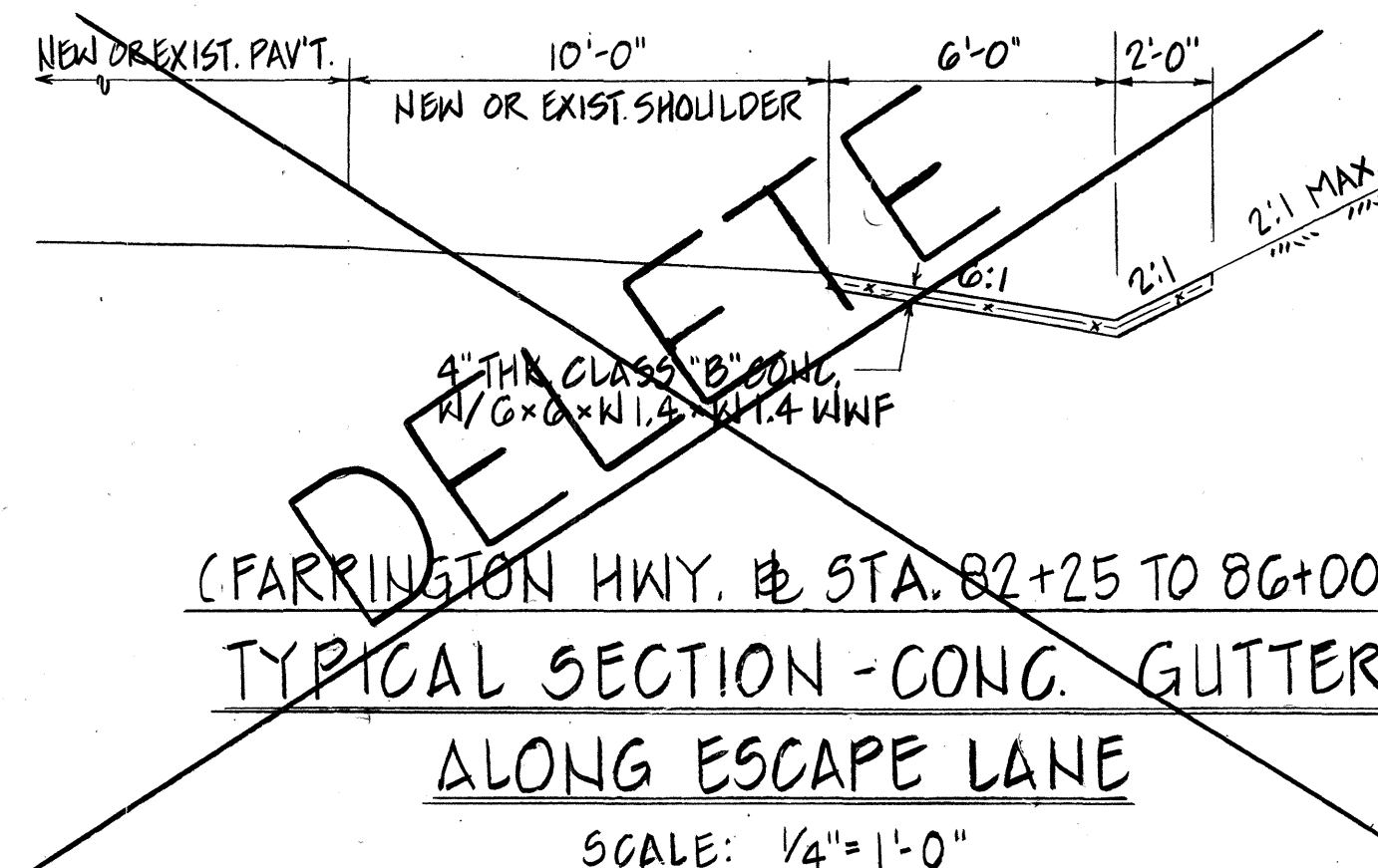
TYPE 1  
TYPICAL SECTION - CONC. DITCH "Ca"  
SCALE: 1/2"=1'-0"



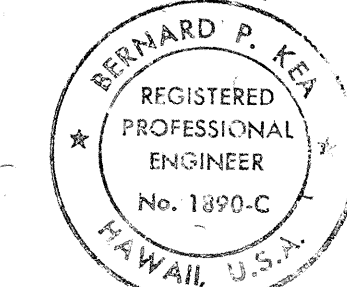
TYPE 2 (EXIST. CONC. DITCH SIMILAR)



TYPICAL SECTION  
CONC. DITCH "Bb-2"  
NOT TO SCALE

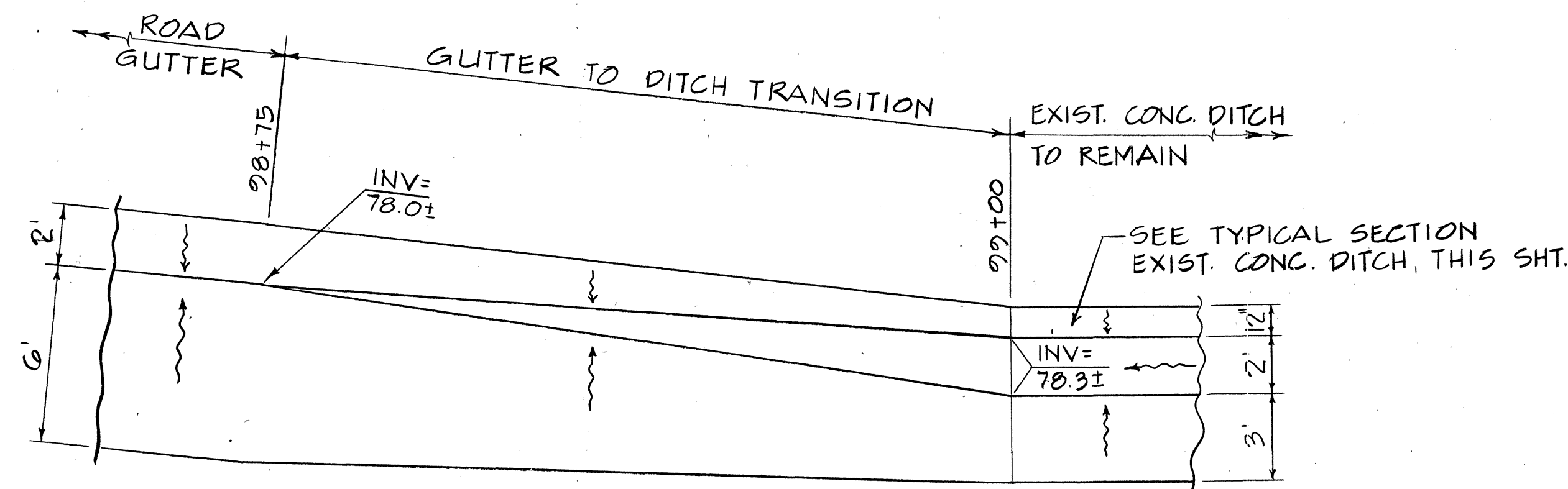
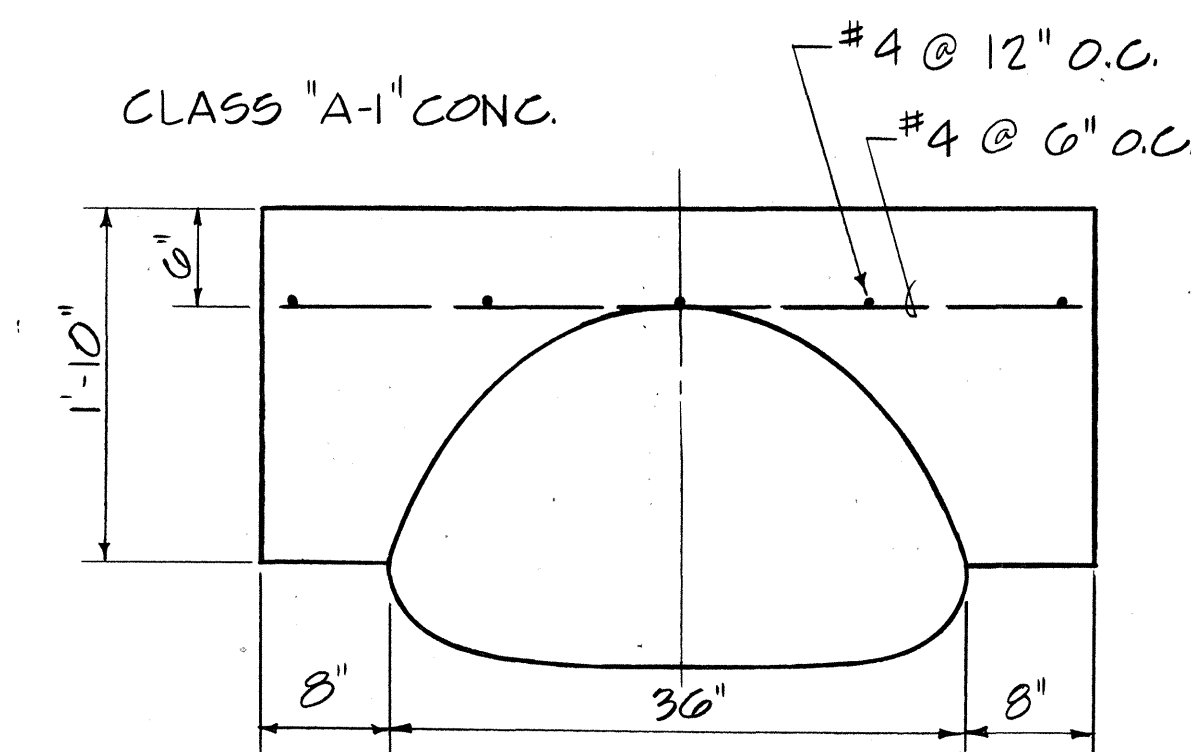
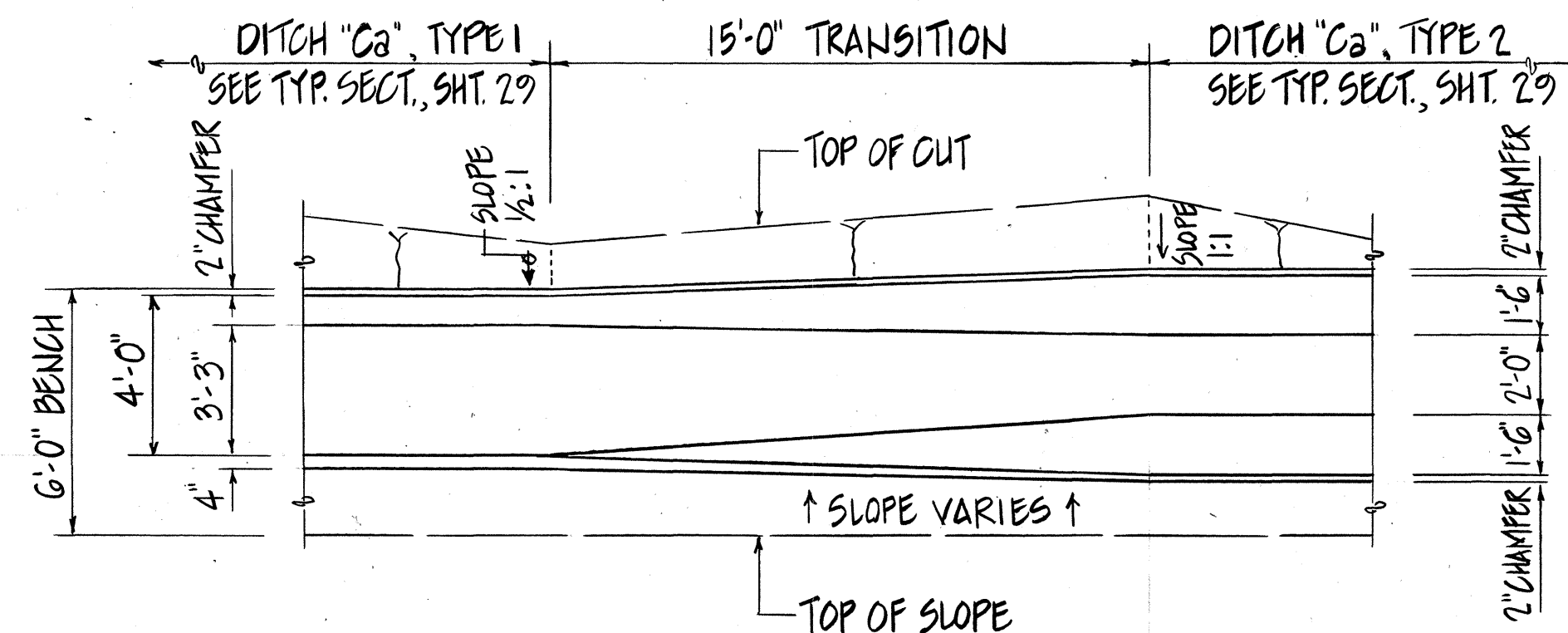
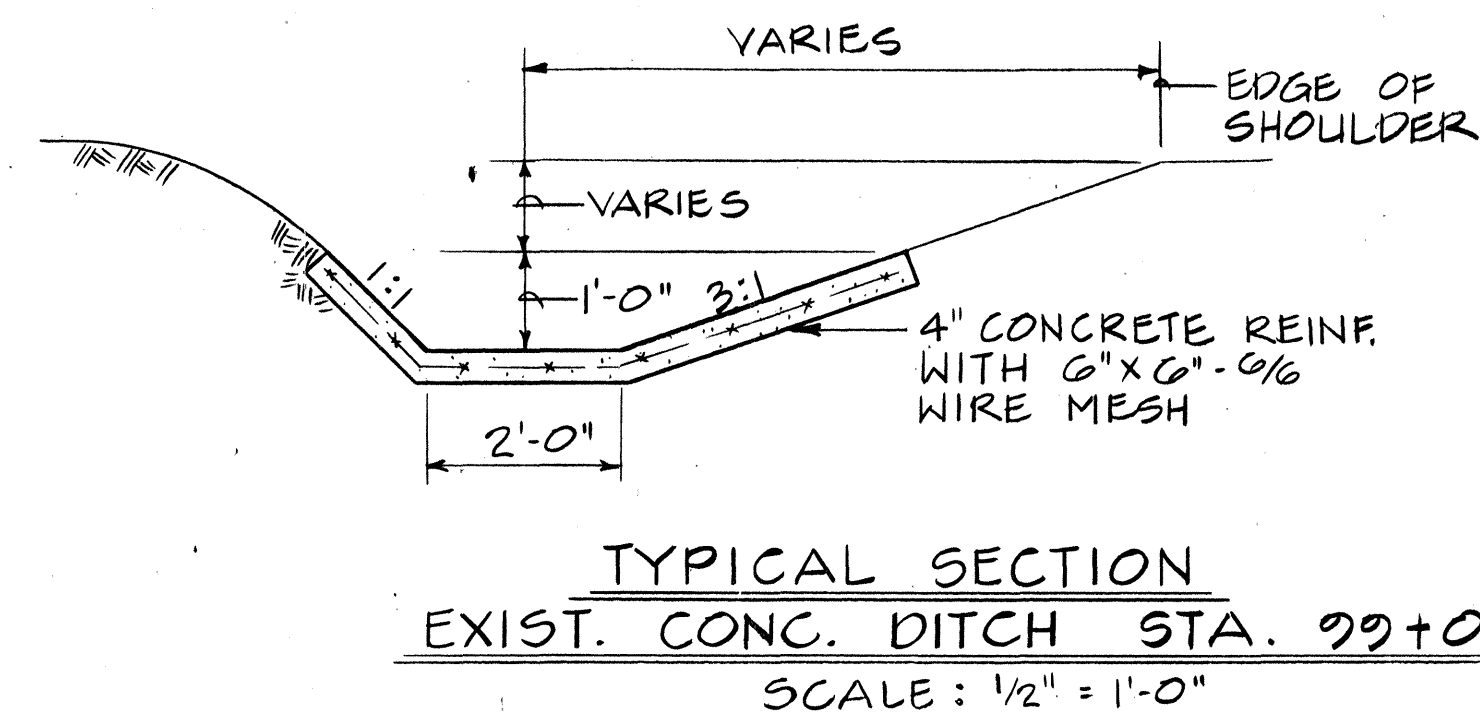
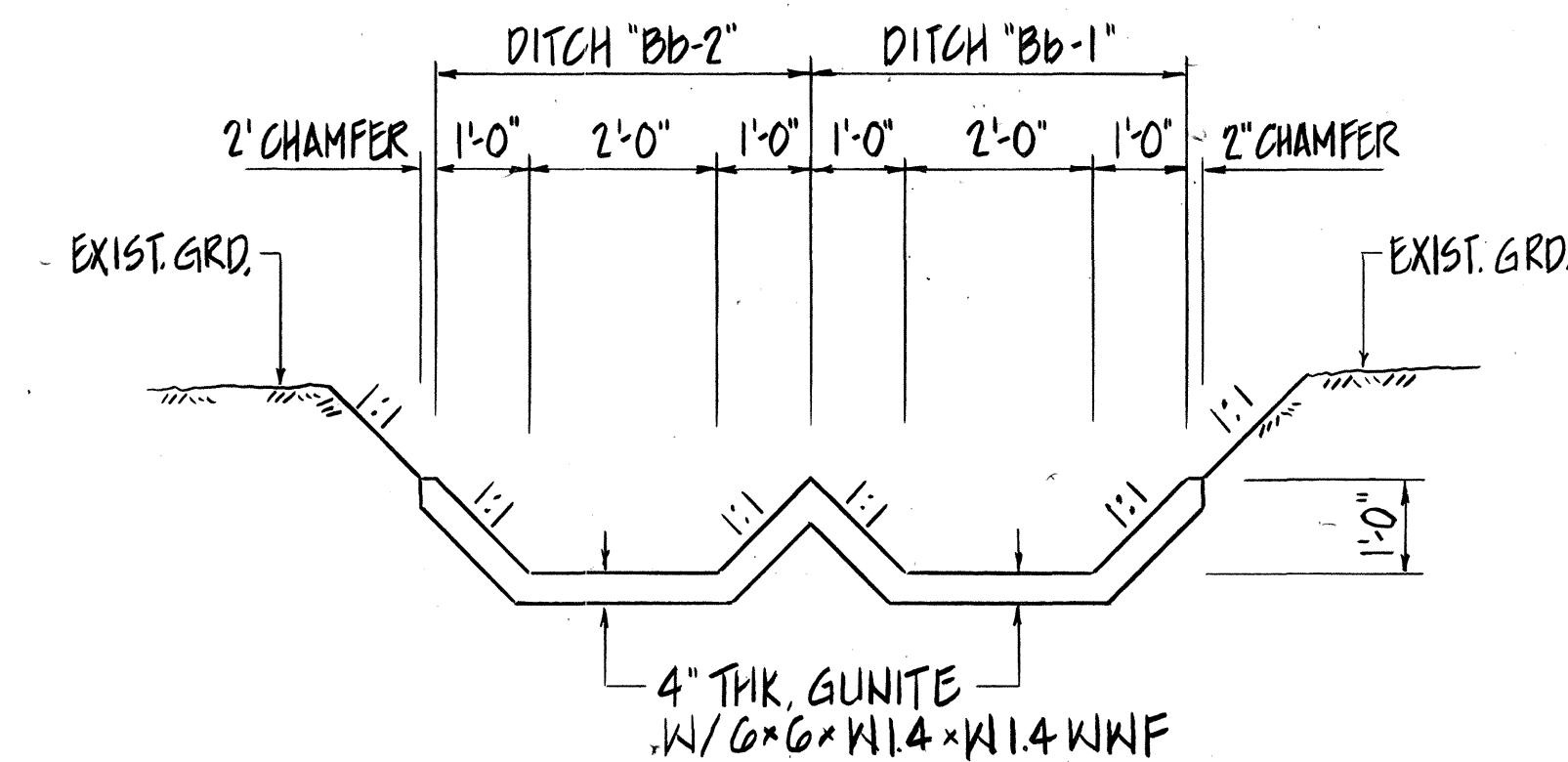
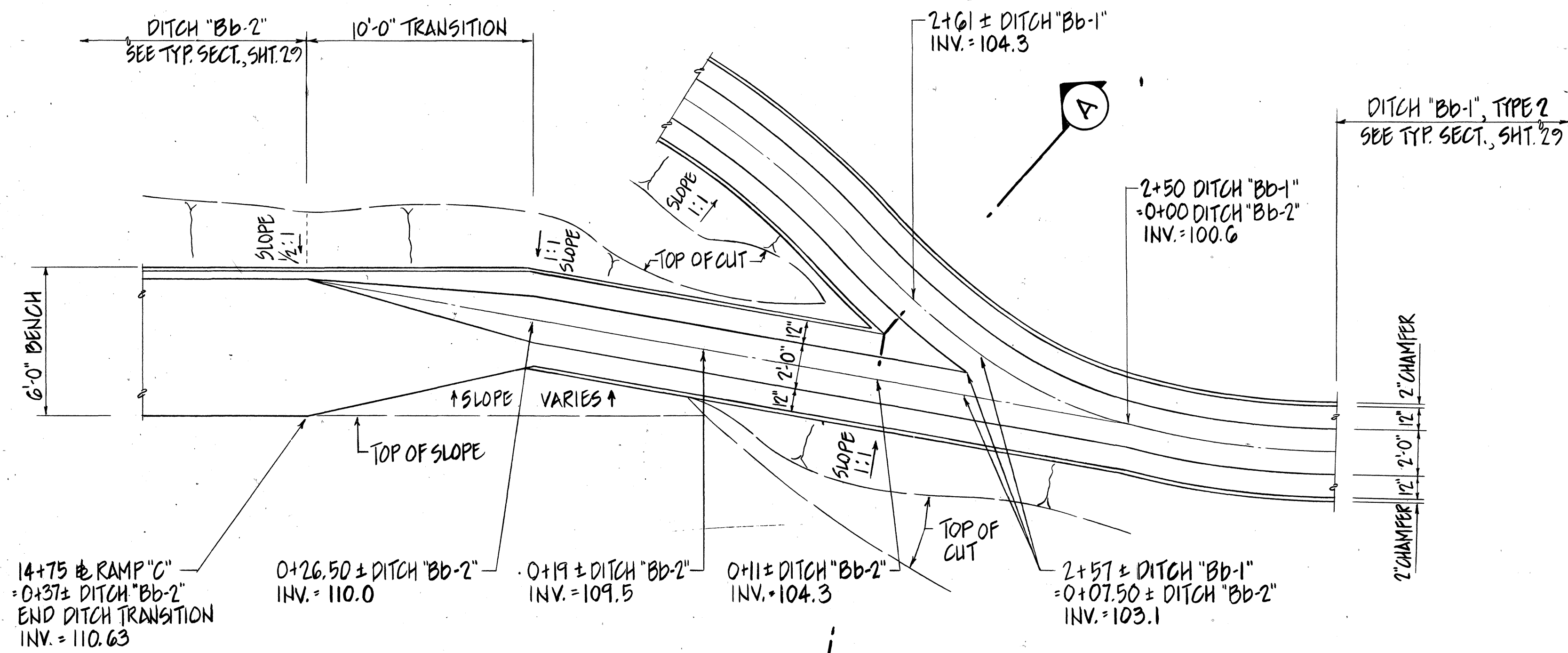


(FARRINGTON HWY. STA. 82+25 TO 86+00)  
TYPICAL SECTION - CONC. GUTTER  
ALONG ESCAPE LANE  
SCALE: 1/4"=1'-0"



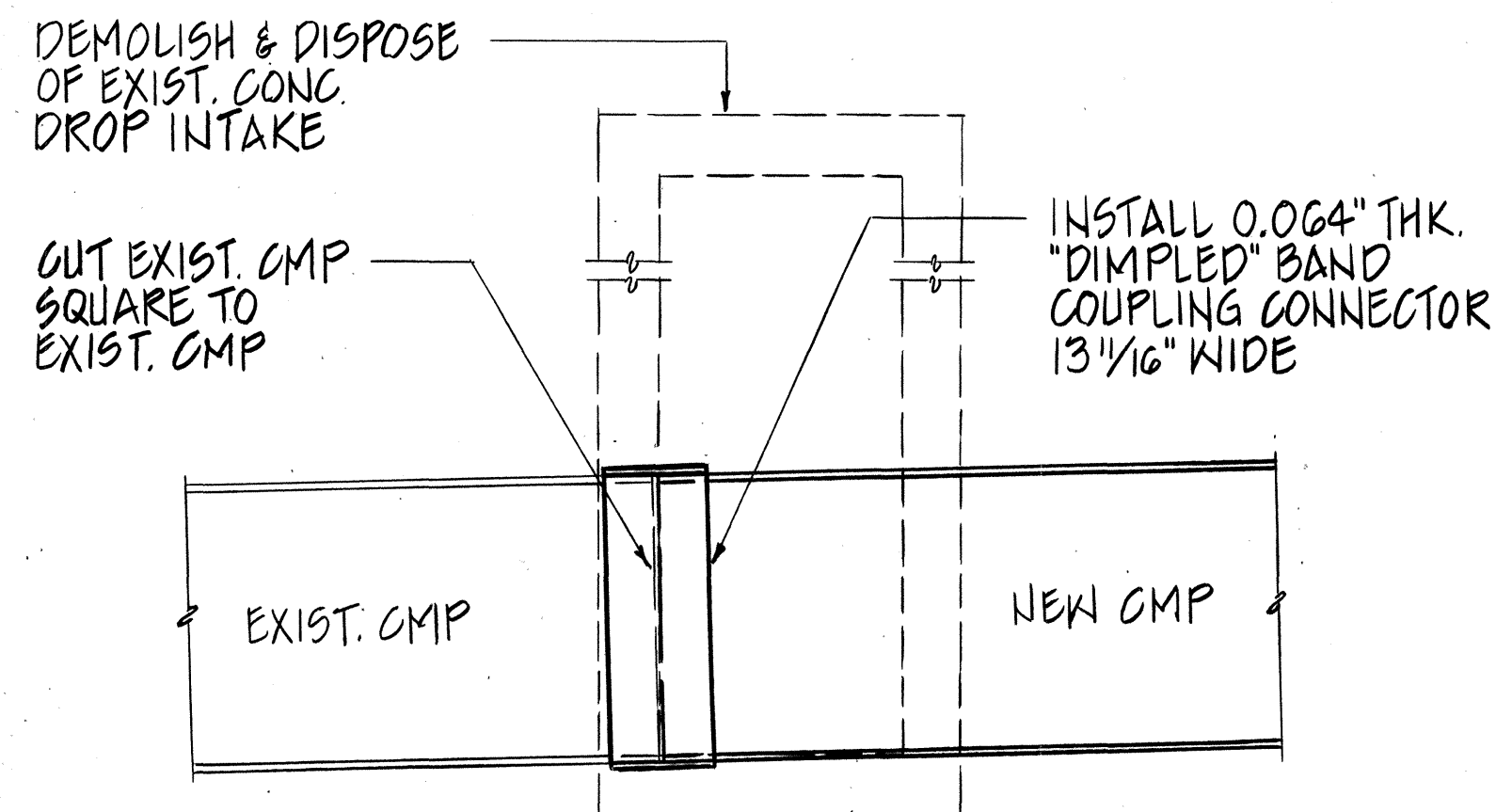
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

| REVISION DATE                                     | DESCRIPTION | MADE BY | APPROVED |
|---------------------------------------------------|-------------|---------|----------|
|                                                   |             |         |          |
| COMMUNITY PLANNING INCORPORATED                   |             |         |          |
| CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS |             |         |          |
| WEST BEACH RESORT                                 |             |         |          |
| HONOLULU, EWA, OAHU, HAWAII                       |             |         |          |
| DEVELOPER: WEST BEACH ESTATES                     |             |         |          |
| TAX MAP KEY: 9-1-15: POR. 3                       |             |         |          |
| 9-2-03: POR. 2 & 69                               |             |         |          |
| FARRINGTON HIGHWAY INTERCHANGE                    |             |         |          |
| DRAINAGE DETAILS                                  |             |         |          |
| DITCH & SWALE DETAILS                             |             |         |          |
| APPROVED: <i>Maui T. Fikarawa</i> 8/1/17          |             |         |          |
| CHIEF, DIVISION OF ENGINEERING, DPW, HAWAII       |             |         |          |
| (FOR GRADING ONLY)                                |             |         |          |
| <i>Bernard P. Kea</i>                             |             |         |          |
| REGISTERED PROFESSIONAL ENGINEER                  |             |         |          |

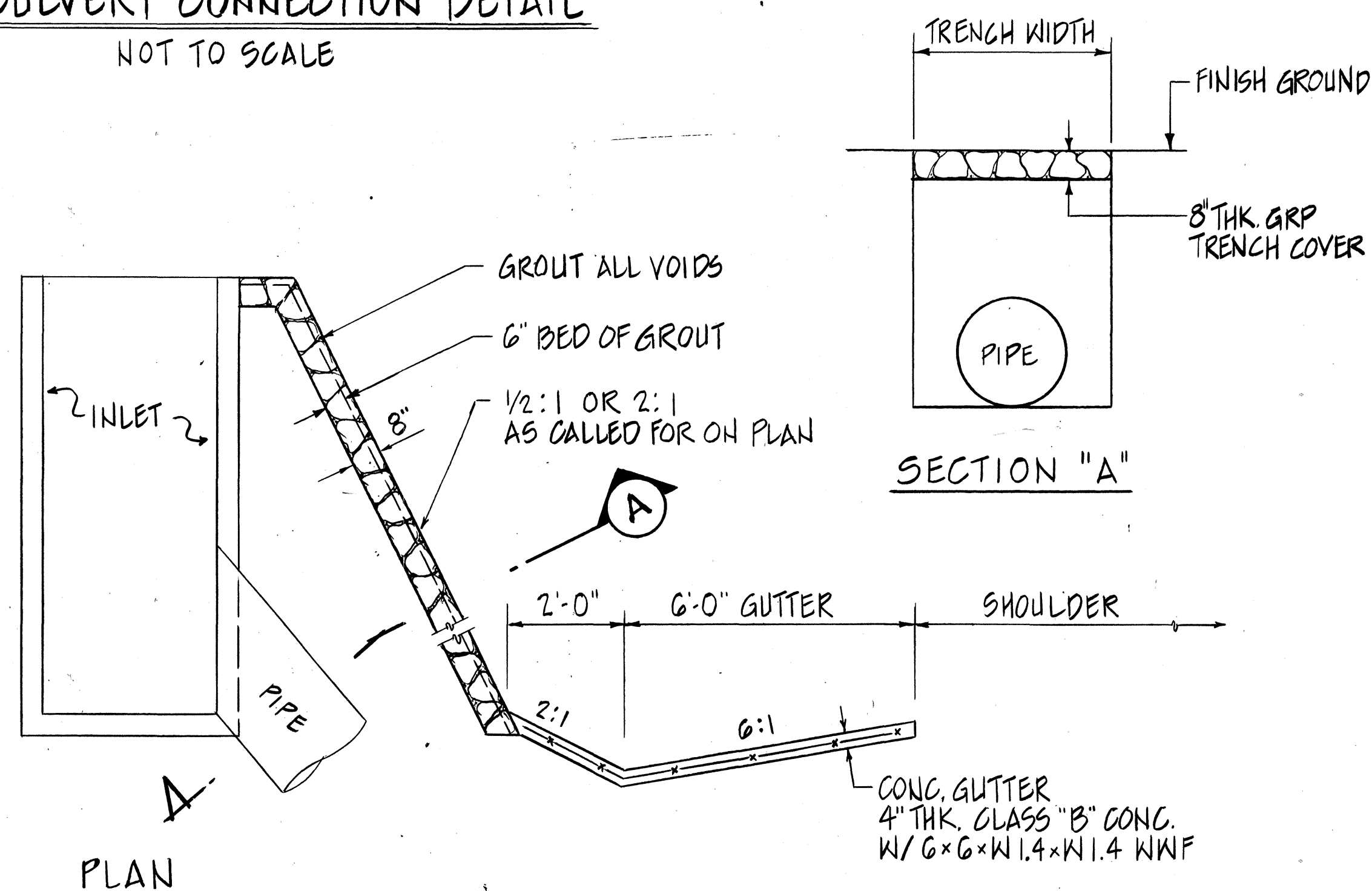


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

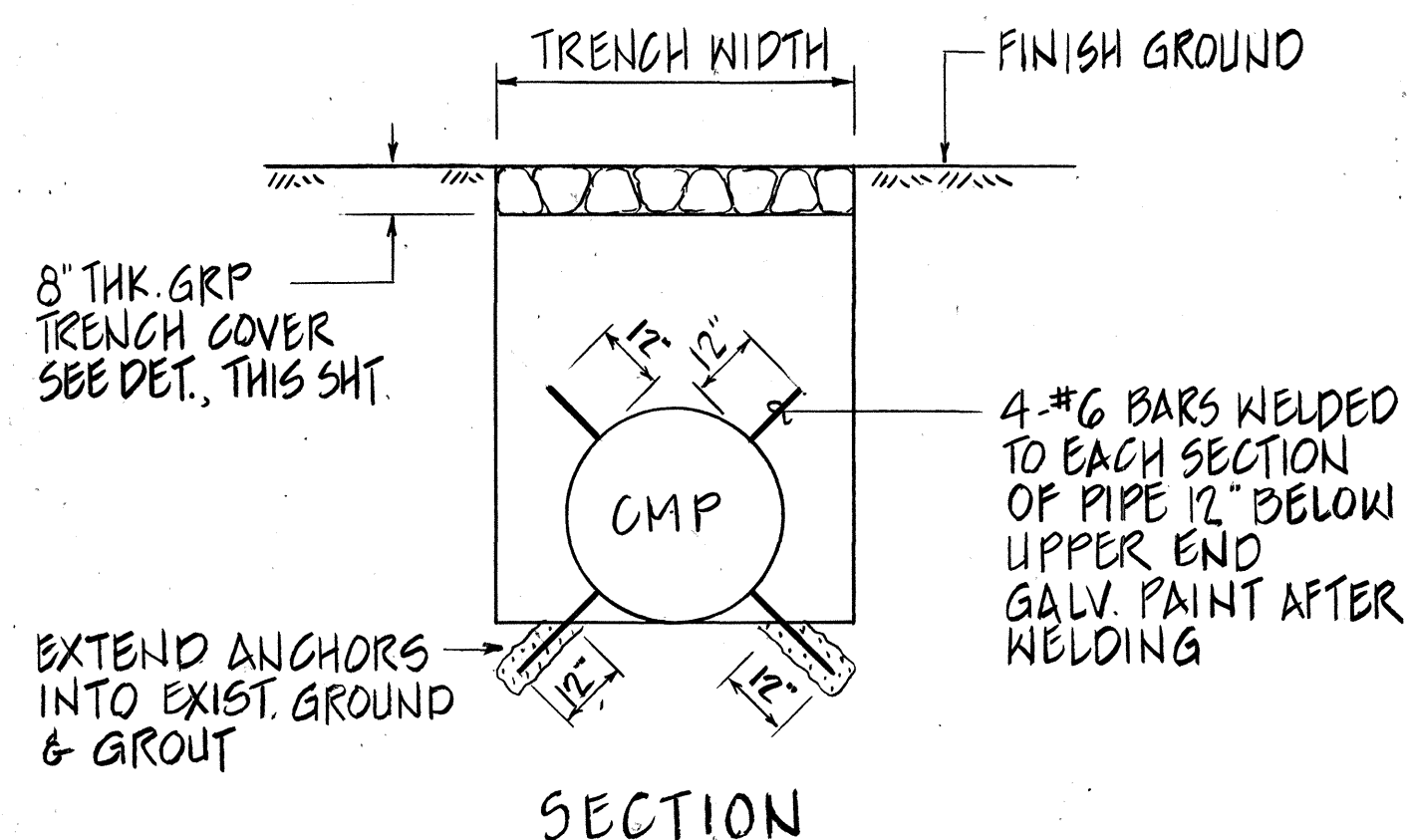
|                                                                                                                                                                              |             |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|
| REVISION DATE                                                                                                                                                                | DESCRIPTION | MADE BY | APPROVED |
| <b>COMMUNITY PLANNING INCORPORATED</b><br>CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS                                                                                  |             |         |          |
| <b>WEST BEACH RESORT</b><br>HONOLULU, EWA, OAHU, HAWAII<br>DEVELOPER: WEST BEACH ESTATES<br>TAX MAP KEY: 9-1-15: POR. 3<br>9-2-03: POR. 2 & 69                               |             |         |          |
| <b>FARRINGTON HIGHWAY INTERCHANGE DRAINAGE DETAILS</b>                                                                                                                       |             |         |          |
| APPROVED: <i>Maria T. J. J. J.</i> 8/11/87<br>CHIEF, DIVISION OF ENGINEERING, DPW, HAWAII<br>(FOR GRADING ONLY)<br><i>Bernard P. Kea</i><br>REGISTERED PROFESSIONAL ENGINEER |             |         |          |



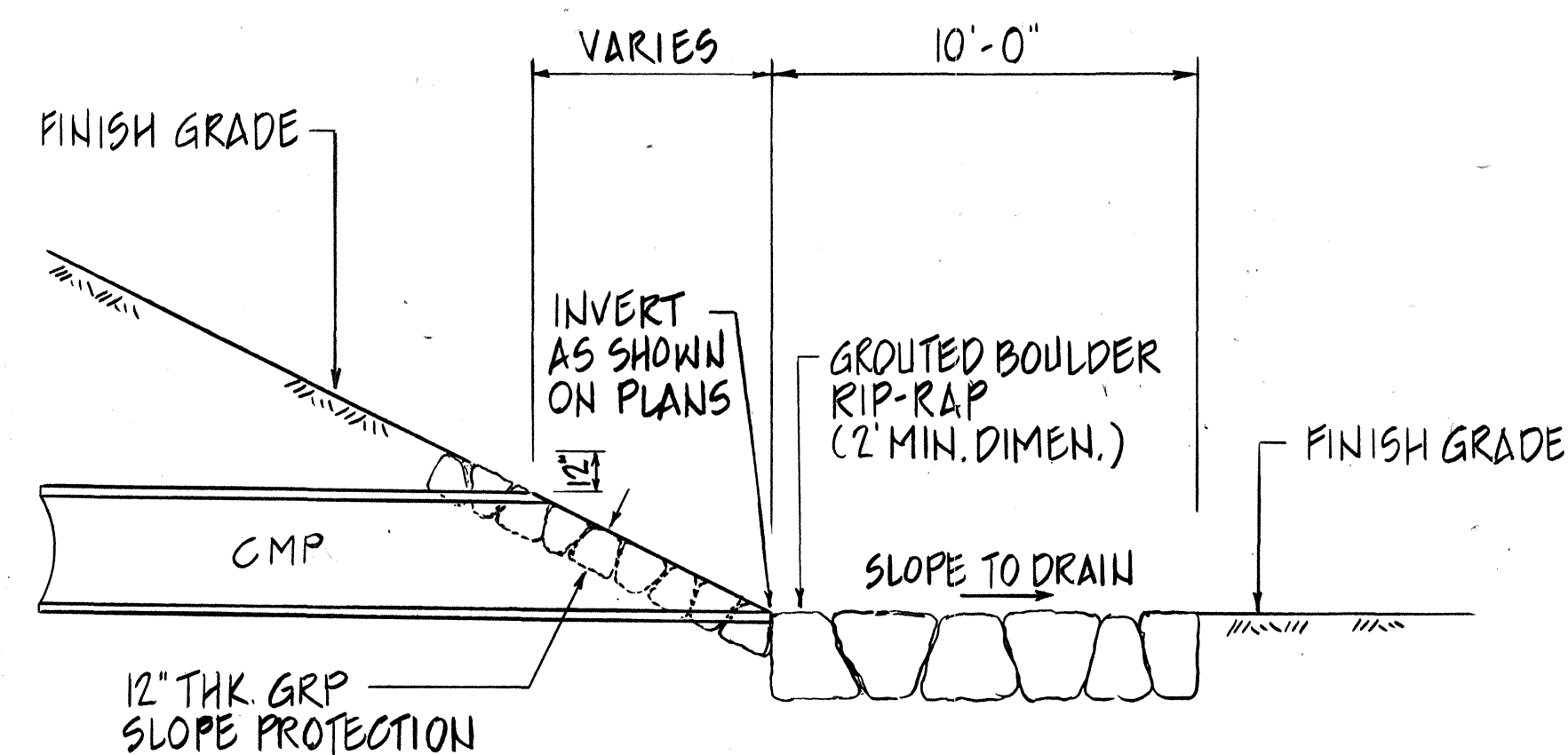
**CMP CULVERT CONNECTION DETAIL**  
NOT TO SCALE



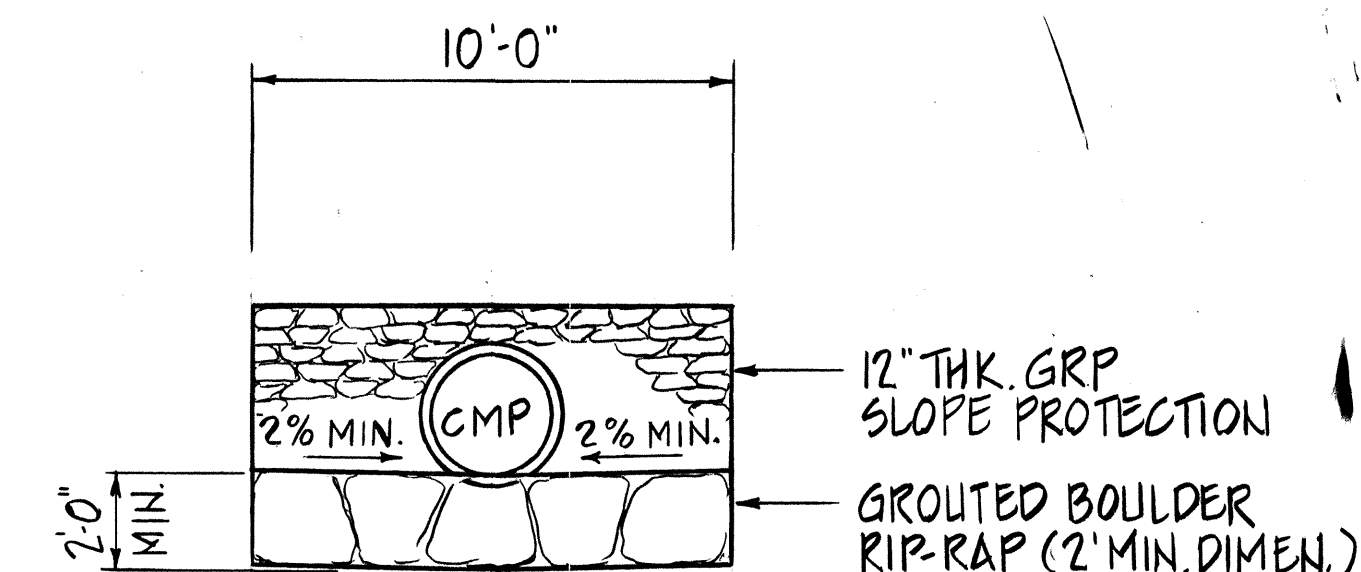
**DETAIL - GRP TRENCH COVER**  
NOT TO SCALE



**DETAIL - CMP ANCHOR  
@ DRAINLINES "A" & "B"**  
NOT TO SCALE

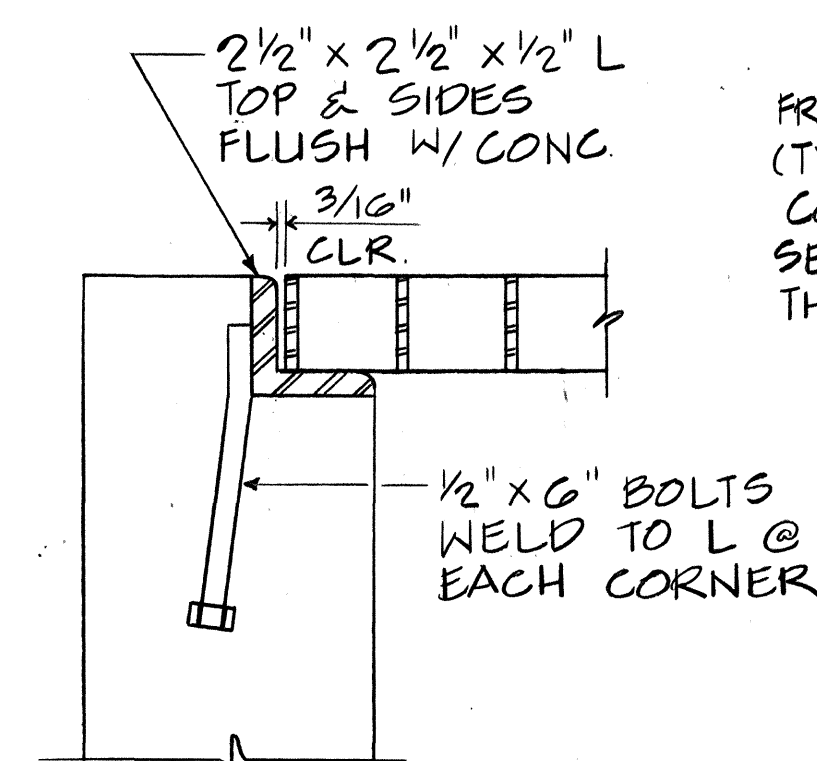


**PLAN**



**ELEVATION**

**DETAIL - CRM OUTLETS "C-1" & "E-1"**  
NOT TO SCALE

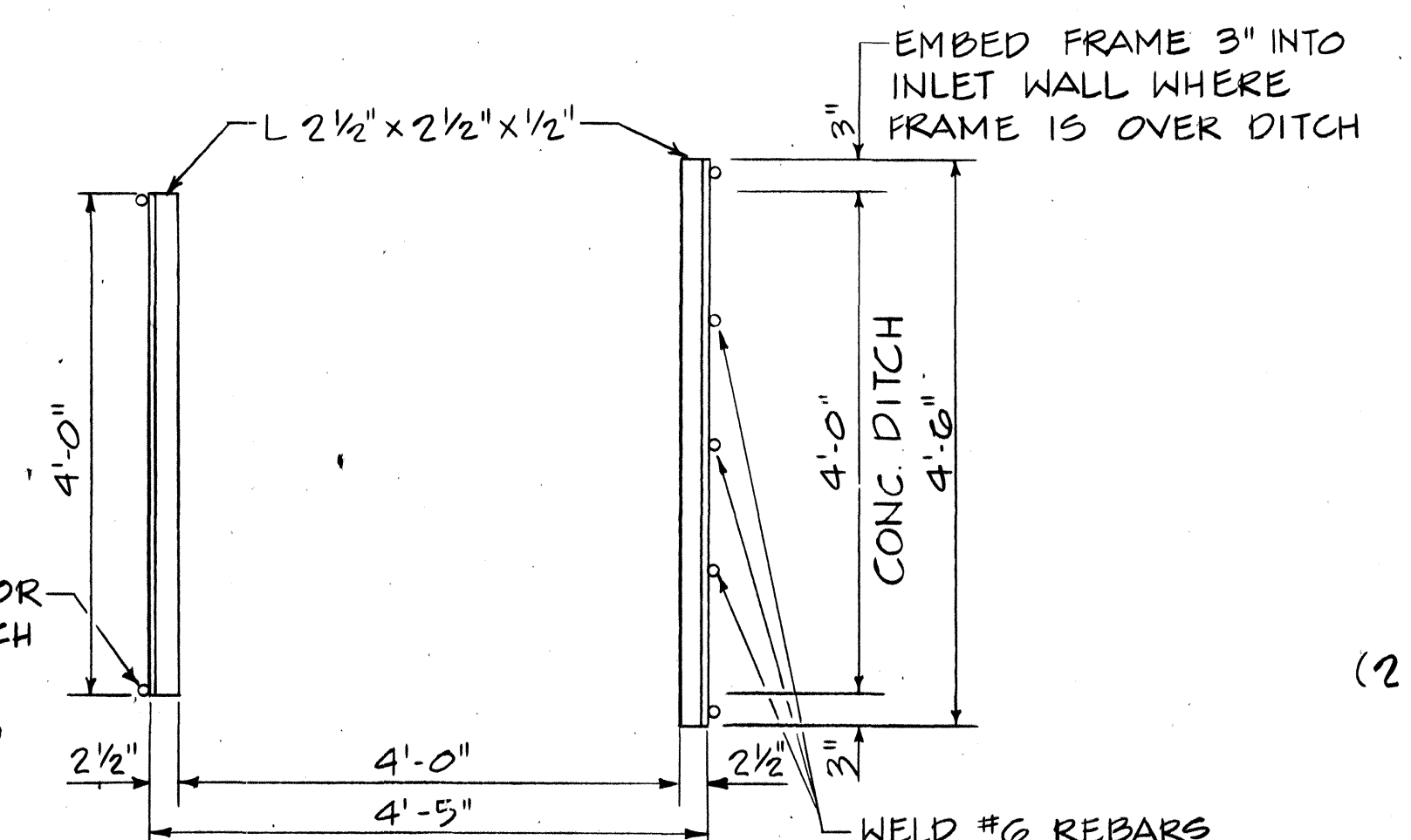


**FRAME ANCHOR**  
SCALE: 1" = 3"  
(SIMILAR @ 4 CORNERS)

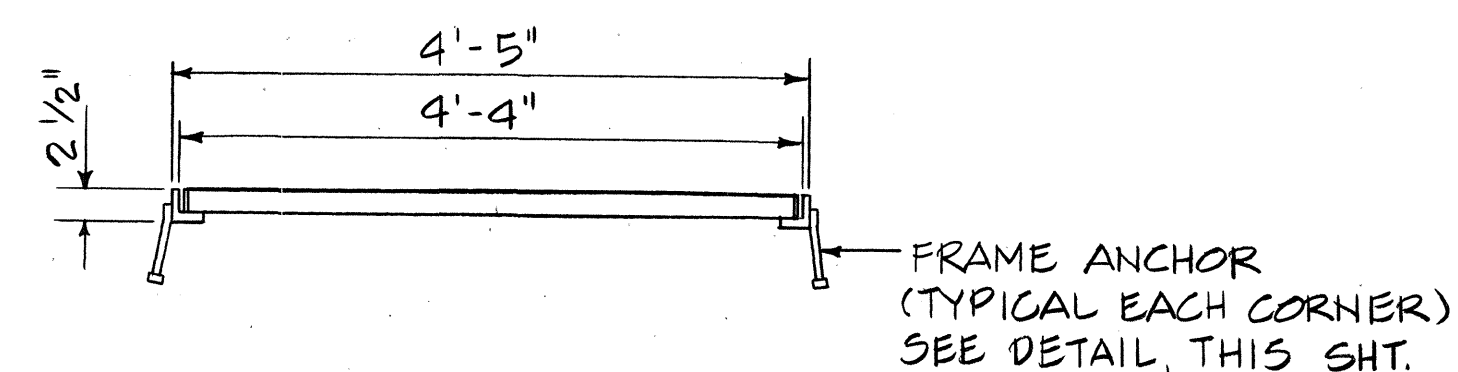
**FRAME & GRATE NOTES:**

1. GALVANIZE ALL EXPOSED METAL AFTER FABRICATION.
2. REBAR TO BE  $F_y = 40$  KSI GRADE.

FRAME ANCHOR  
(TYPICAL EACH CORNER)  
SEE DETAIL, THIS SHT.

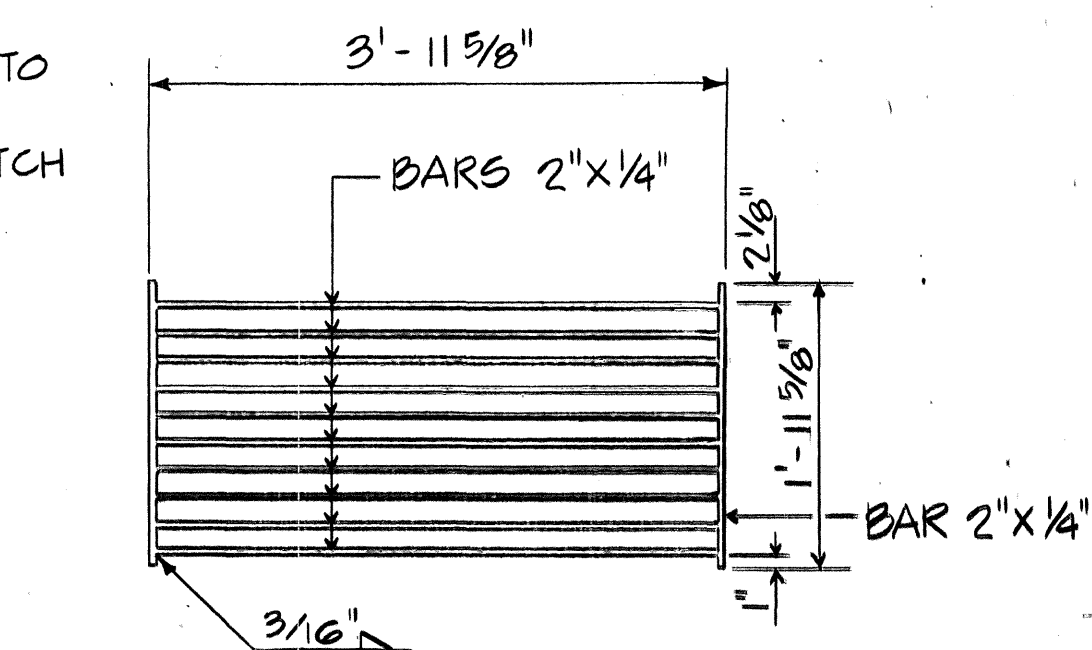


**PLAN**  
(FRAME FOR TWO GRATES)

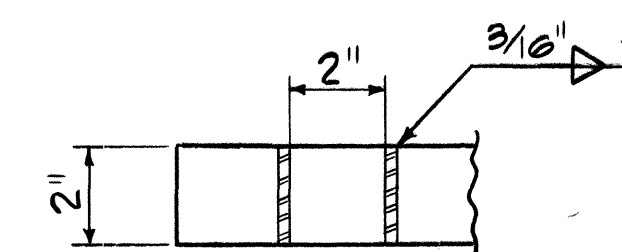


**LONGITUDINAL SECTION**  
(THRU. FRAMES & GRATES)

**FRAME DETAILS**



**PLAN**  
(2 REQUIRED PER STRUCTURE)

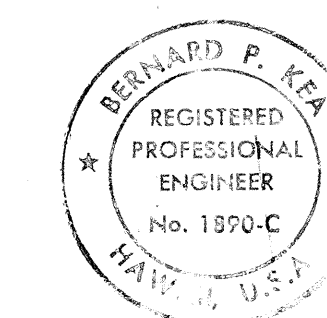


**SECTION**  
SCALE: 1" = 3'

**WELDED GRATE DETAILS**

**DETAIL - INLET FRAMES & WELDED GRATES**

SCALE: 3/4" = 1'-0"  
(UNLESS OTHERWISE NOTED)



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ME OR UNDER MY SUPERVISION.

|                                                                                                                                                |                           |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|----------|
| 3-B-88                                                                                                                                         | Δ Delete CRM Outlet "C-1" | CPI     |          |
| REVISION DATE                                                                                                                                  | DESCRIPTION               | MADE BY | APPROVED |
| <b>COMMUNITY PLANNING INCORPORATED</b><br>CIVIL ENGINEERS — SURVEYORS — CONSULTANT PLANNERS                                                    |                           |         |          |
| <b>WEST BEACH RESORT</b><br>HONOLULU, EWA, OAHU, HAWAII<br>DEVELOPER: WEST BEACH ESTATES<br>TAX MAP KEY: 9-1-15: POR. 3<br>9-2-03: POR. 2 & 69 |                           |         |          |
| <b>FARRINGTON HIGHWAY INTERCHANGE</b><br><b>DRAINAGE DETAILS</b><br><b>MISCELLANEOUS DETAILS</b>                                               |                           |         |          |
| APPROVED: <i>Bernard P. Kwa</i> DATE: _____<br>REGISTERED PROFESSIONAL ENGINEER                                                                |                           |         |          |