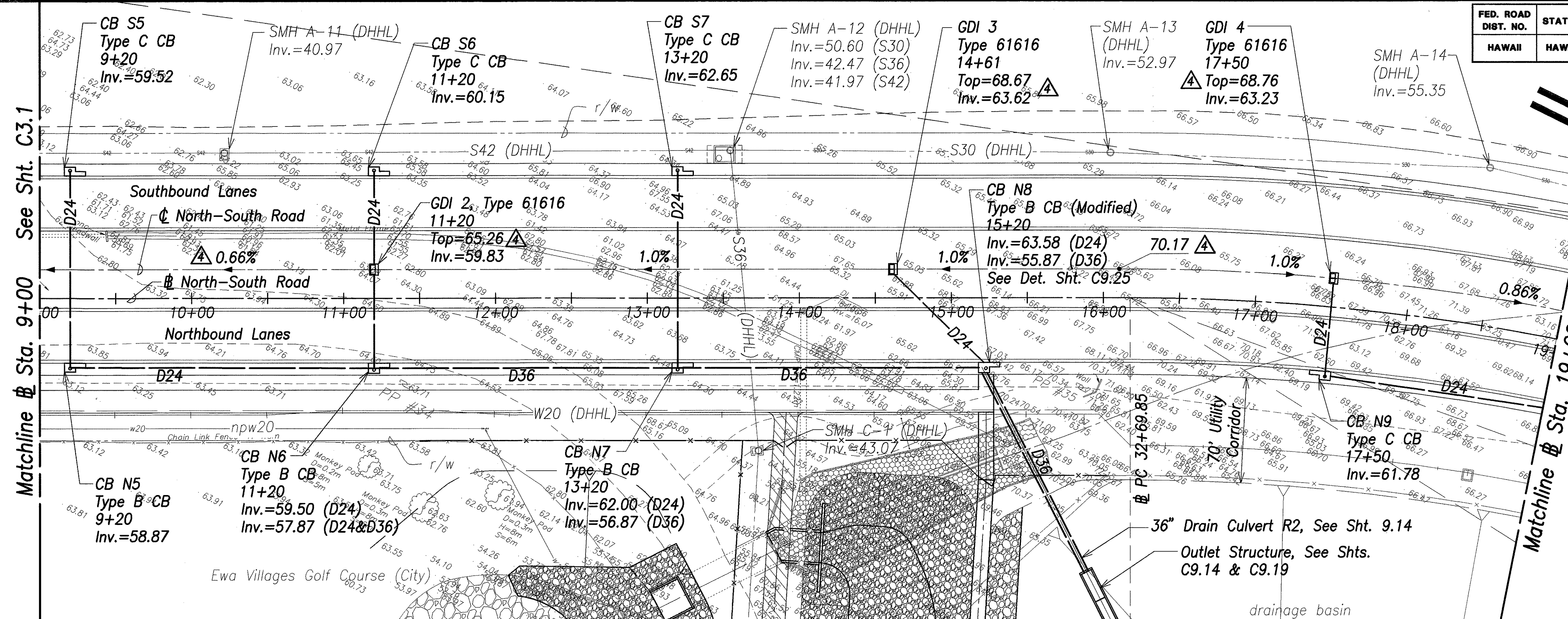
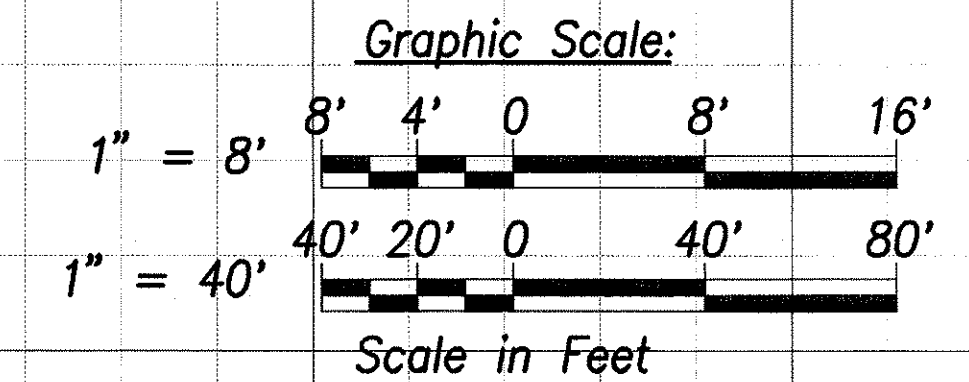
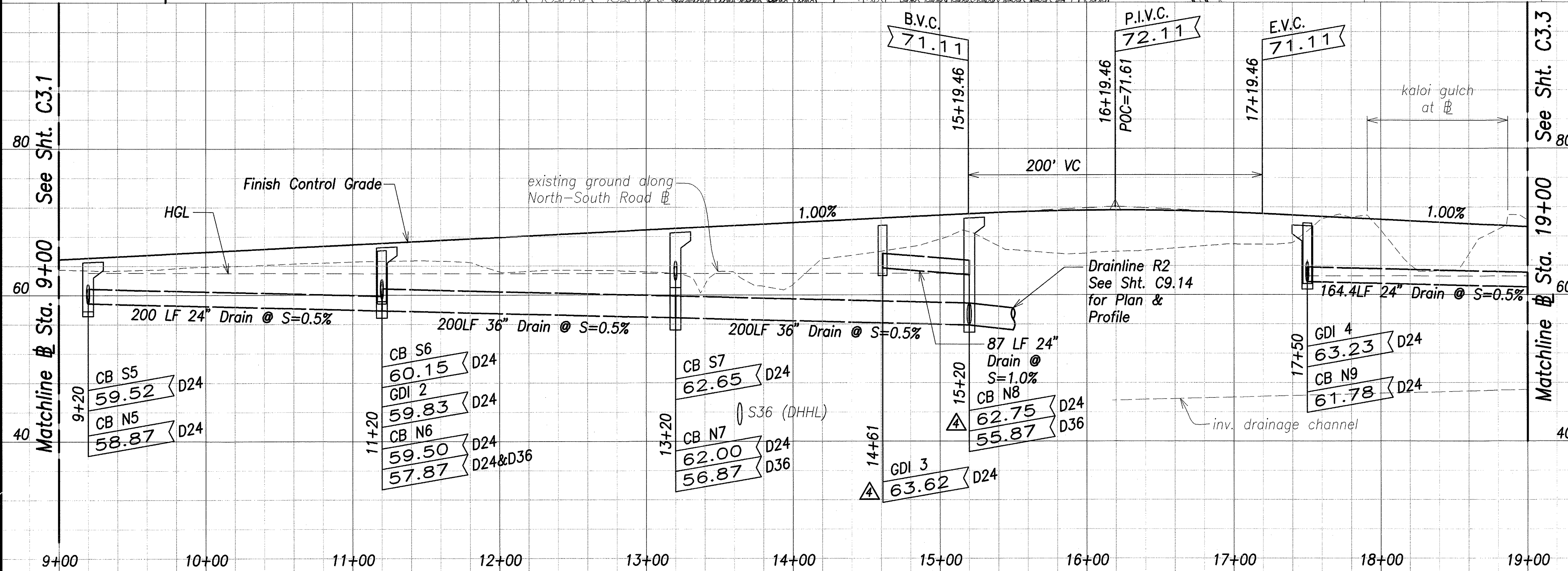




| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | ADD. 45   | 331          |



Note:  
Items annotated "DHHL" are provided for information only. Refer to Part B - "East Kapolei Offsite Sewer" and Part C - "East Kapolei Water Transmission Main" for design information.

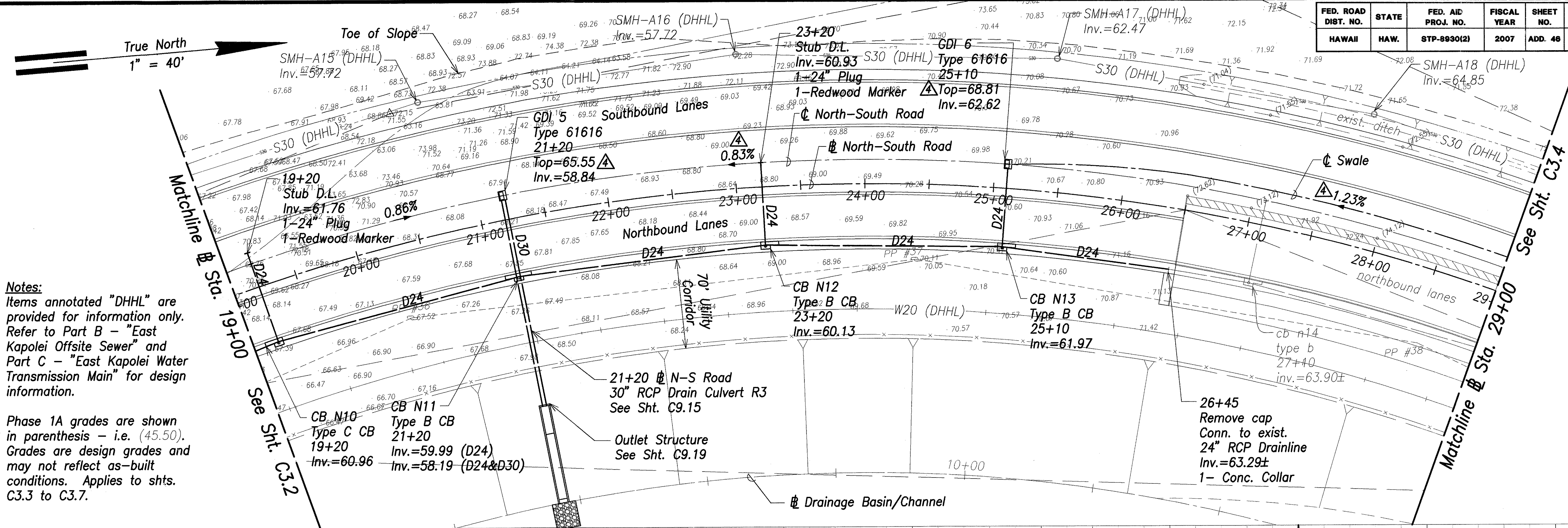


|         |                            |
|---------|----------------------------|
| 5/31/07 | Revised GDI, median swale. |
| DATE    | REVISION                   |

STATE OF HAWAII  
HIGHWAYS DIVISION  
**ROADWAY GRADING & DRAINAGE**  
**PLAN & PROFILE - 2**  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)  
Scale: As Shown Date: Feb 21, 2007  
SHEET No. C3.2 OF 150 SHEETS

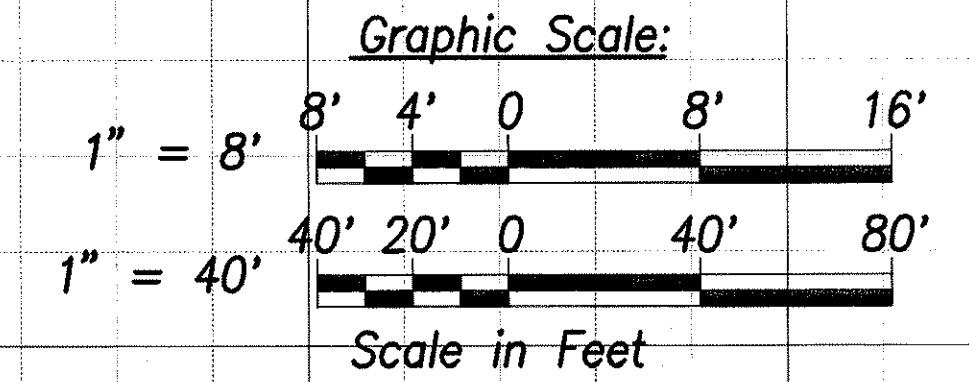
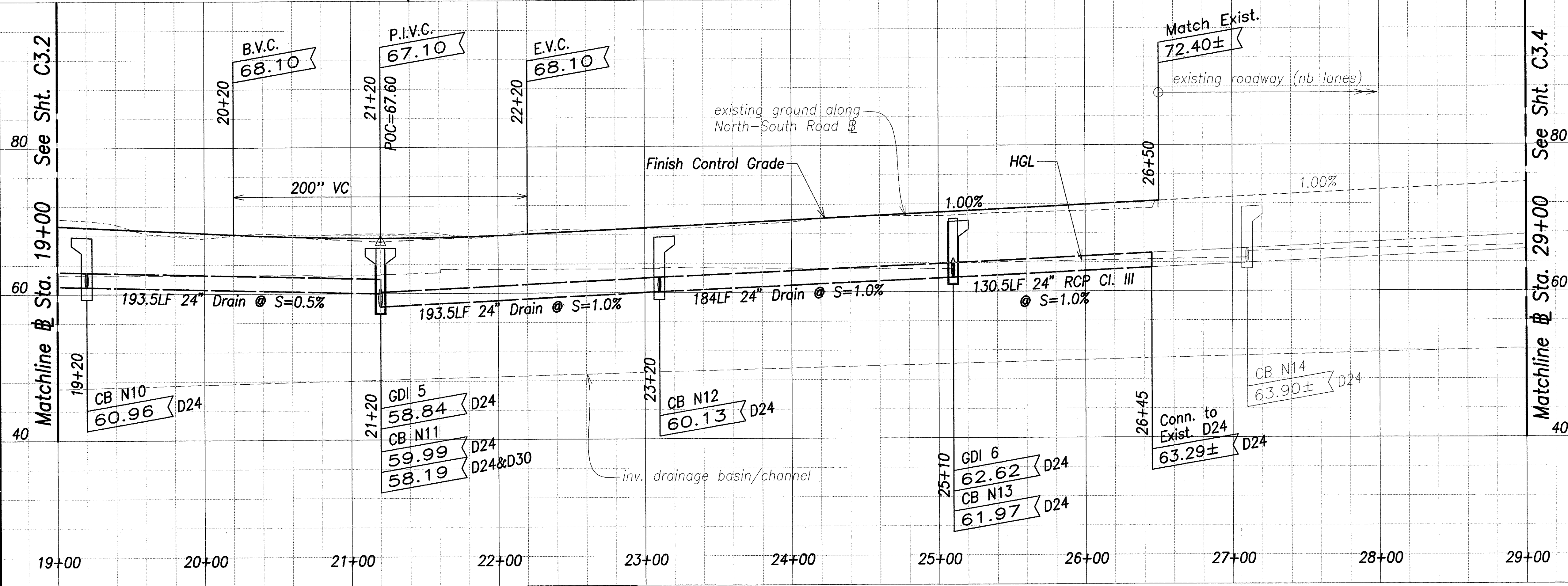
|                   |       |
|-------------------|-------|
| DATE              | ..... |
| SURVEY PLANNED BY | ..... |
| DRAWN BY          | ..... |
| DESIGNED BY       | ..... |
| QUANTITIES BY     | ..... |
| CHECKED BY        | ..... |
| ORIGINAL PLAN     | ..... |
| NOTE BOOK         | ..... |
|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

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | ADD. 46   | 331          |



**Notes:**  
Items annotated "DHHL" are provided for information only. Refer to Part B - "East Kapolei Offsite Sewer" and Part C - "East Kapolei Water Transmission Main" for design information.

Phase 1A grades are shown in parenthesis - i.e. (45.50). Grades are design grades and may not reflect as-built conditions. Applies to shts. C3.3 to C3.7.



5/31/07

Revised GDI, median swale, added ex. grades, note

DATE

REVISION

STATE OF HAWAII

HIGHWAYS DIVISION

ROADWAY GRADING & DRAINAGE

PLAN & PROFILE - 3

North-South Road

Phase 1B

F.A.I. Proj. No. STP-8930(2)

Scale: As Shown

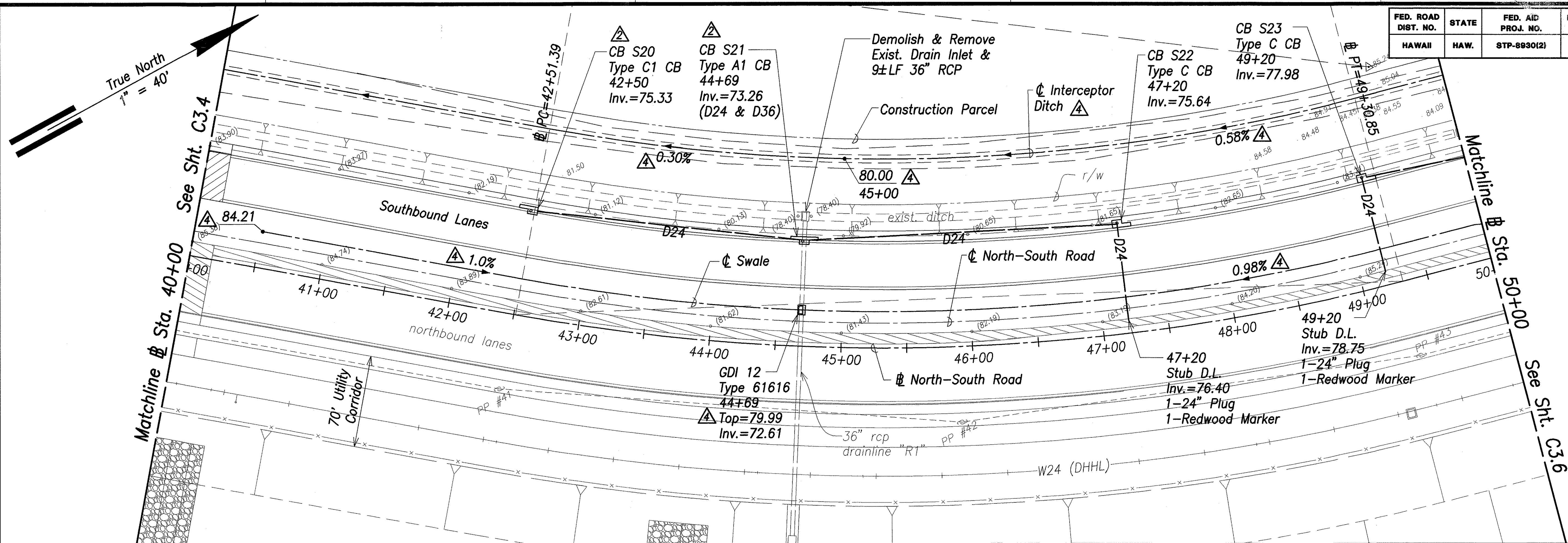
Date: Feb 21, 2007

SHEET No. C3.3 OF 150 SHEETS

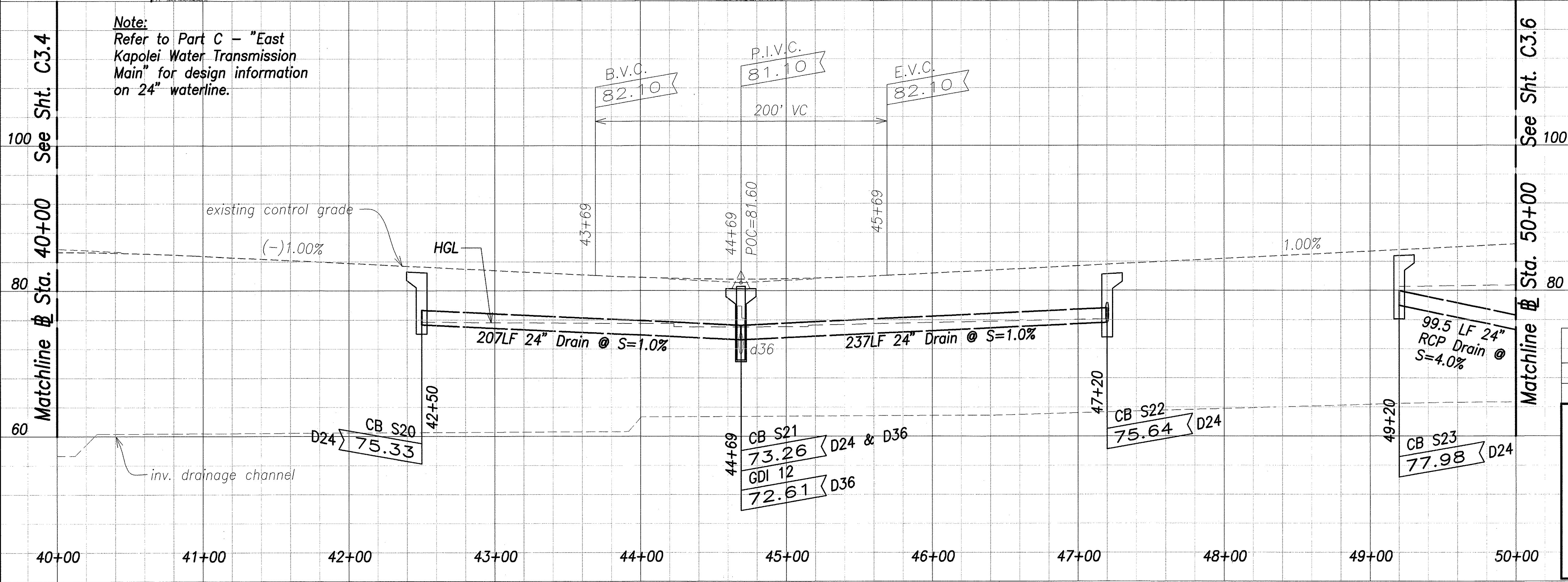
|                   |       |
|-------------------|-------|
| DATE              | _____ |
| SURVEY PLOTTED BY | _____ |
| DRAWN BY          | _____ |
| DESIGNED BY       | _____ |
| CHECKED BY        | _____ |
| ORIGINAL PLAN     | _____ |
| NOTE BOOK         | _____ |
| No.               | _____ |



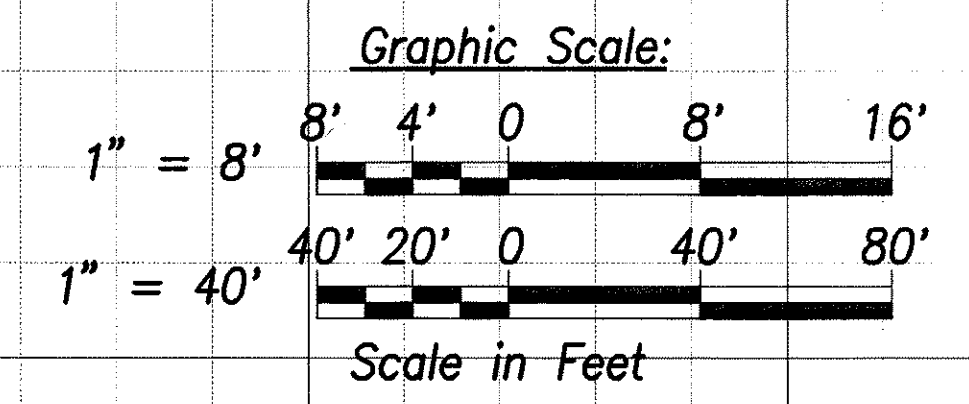
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | ADD. 48   | 331          |



Note:  
Refer to Part C - "East Kapolei Water Transmission Main" for design information on 24" waterline.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature: Greg H. Hiyaundo  
DATE OF LICENSE EXPIRY: APR. 30, 2008



| DATE    | REVISION                                                              |
|---------|-----------------------------------------------------------------------|
| 5/31/07 | Revised GDI top and median swale; added interceptor ditch, ex. grades |
| 5/11/07 | Revised catch basin type                                              |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**ROADWAY GRADING & DRAINAGE  
PLAN & PROFILE - 5**  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)  
Scale: As Shown Date: Feb 21, 2007  
SHEET No. C3.5 OF 150 SHEETS

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

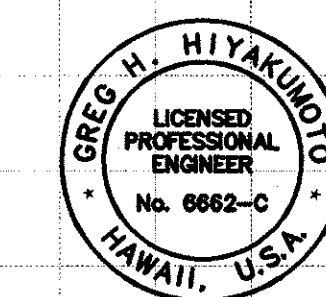




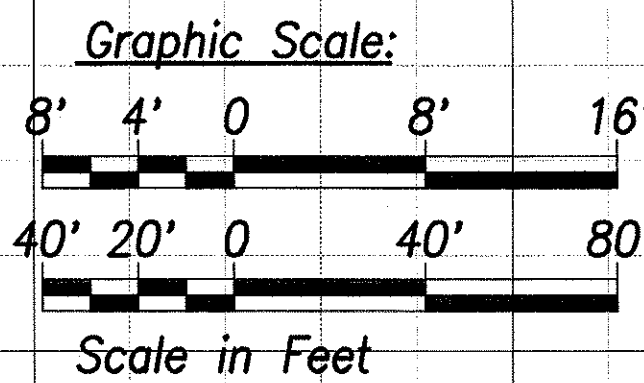
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | ADD. 51   | 331          |

True North  
1" = 40'

Note:  
Refer to Part C - "East Kapolei Water Transmission Main" for design information on 24" waterline.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature: Greg H. Hiyakuno  
DATE OF LICENSE EXPIRY: APR 30, 2008



| DATE    | REVISION                                                  |
|---------|-----------------------------------------------------------|
| 5/31/07 | Revised GDI top and median swale; added interceptor ditch |
| 5/11/07 | Revised catch basin type                                  |

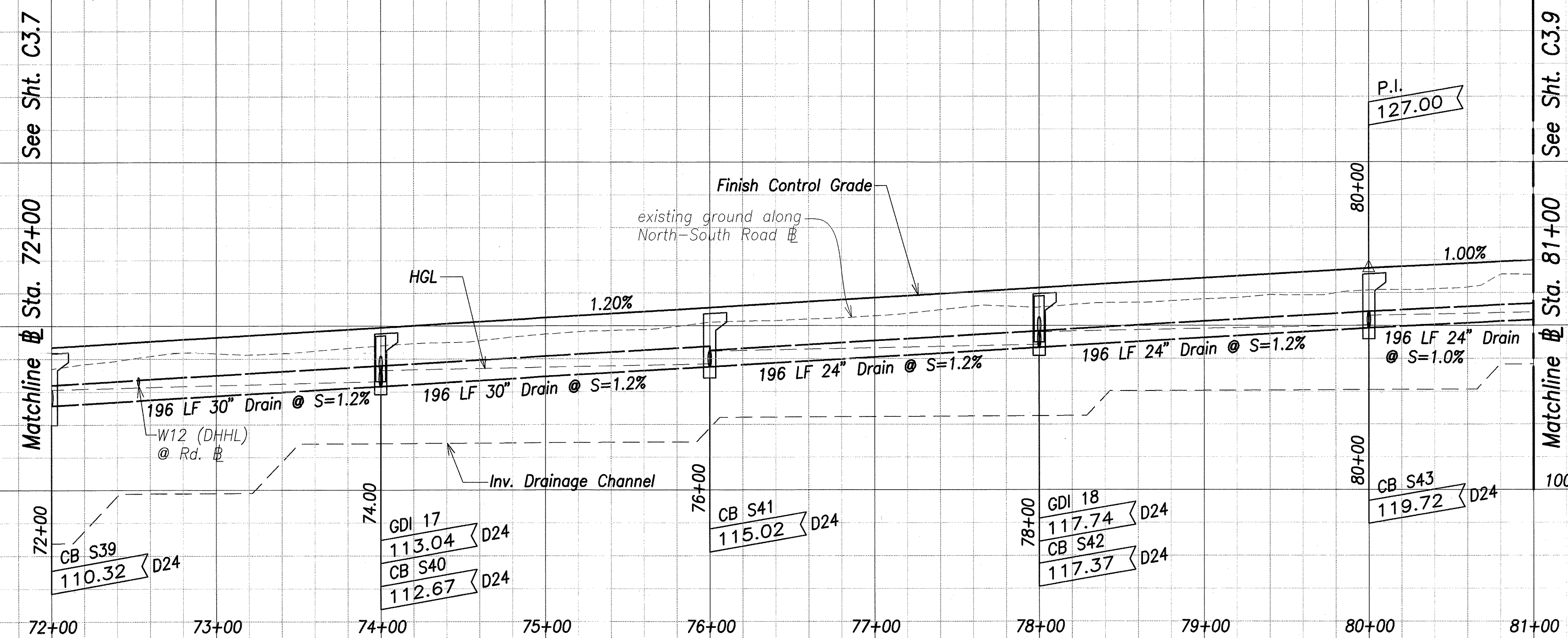
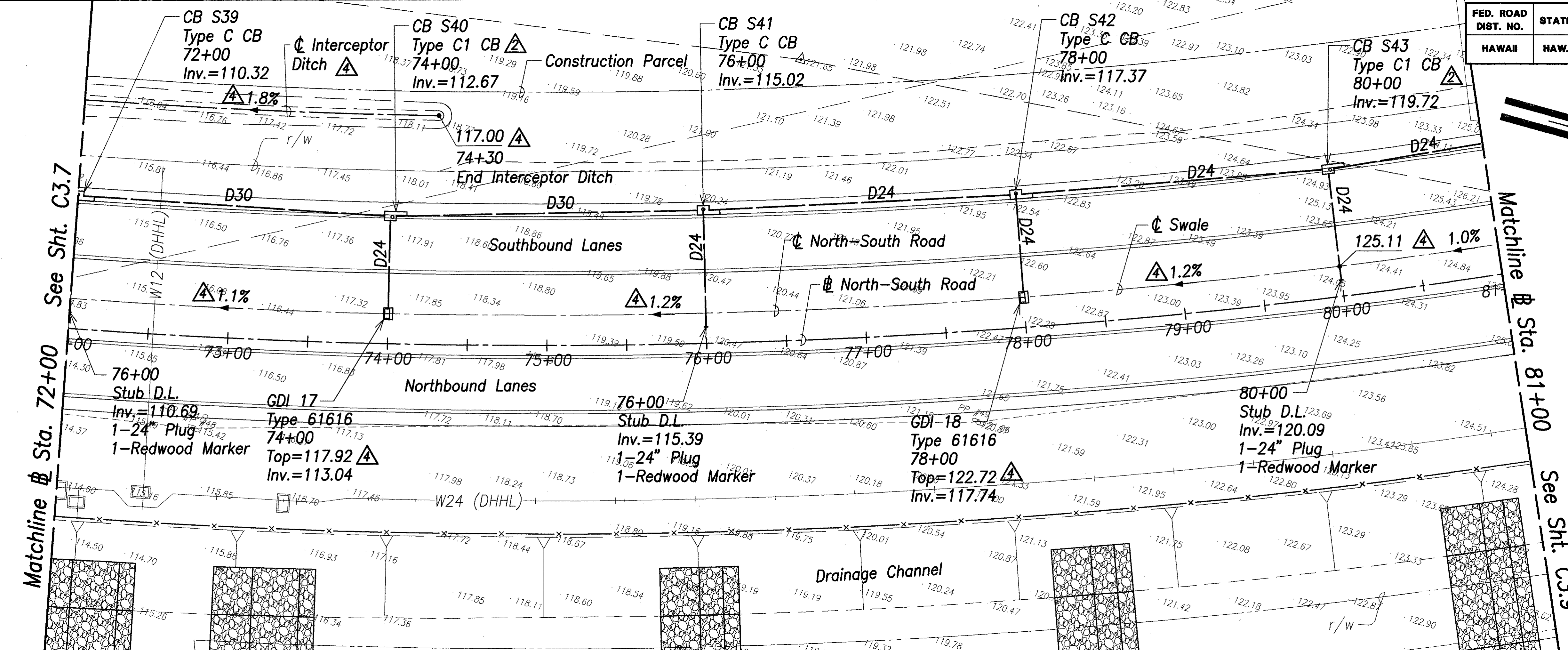
STATE OF HAWAII  
HIGHWAYS DIVISION

**ROADWAY GRADING & DRAINAGE**  
**PLAN & PROFILE - 8**

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

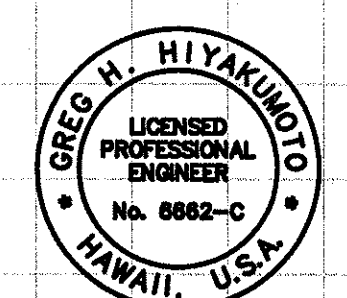
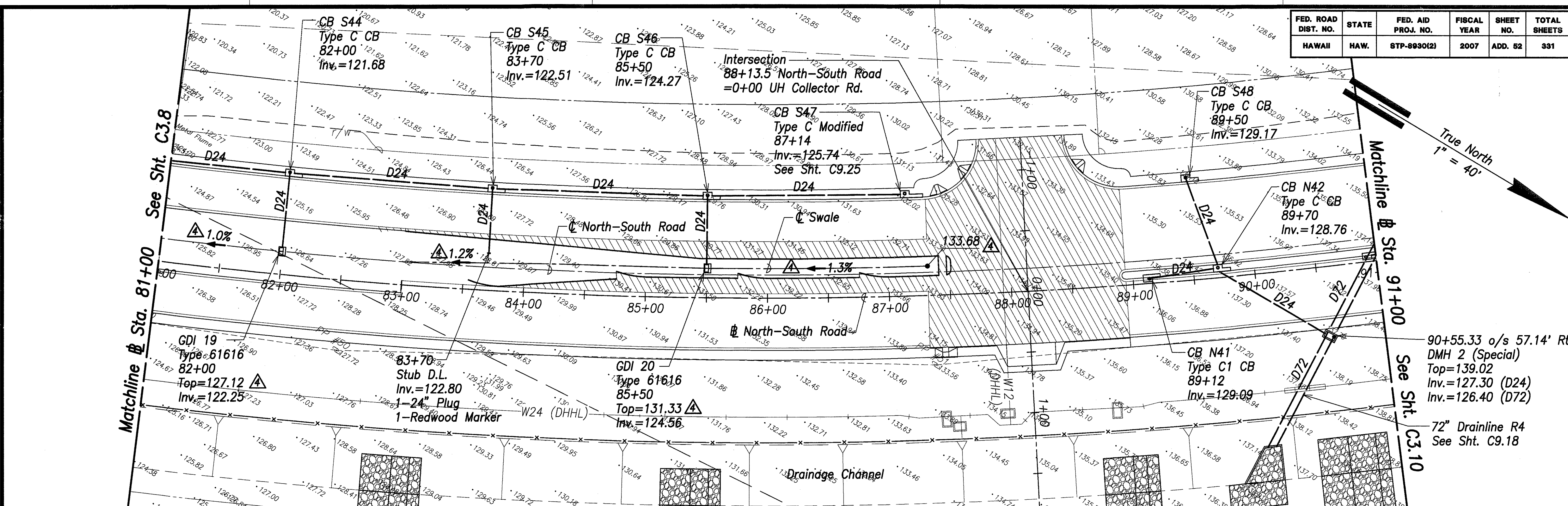
Scale: As Shown Date: Feb 21, 2007

SHEET No. C3.8 OF 150 SHEETS

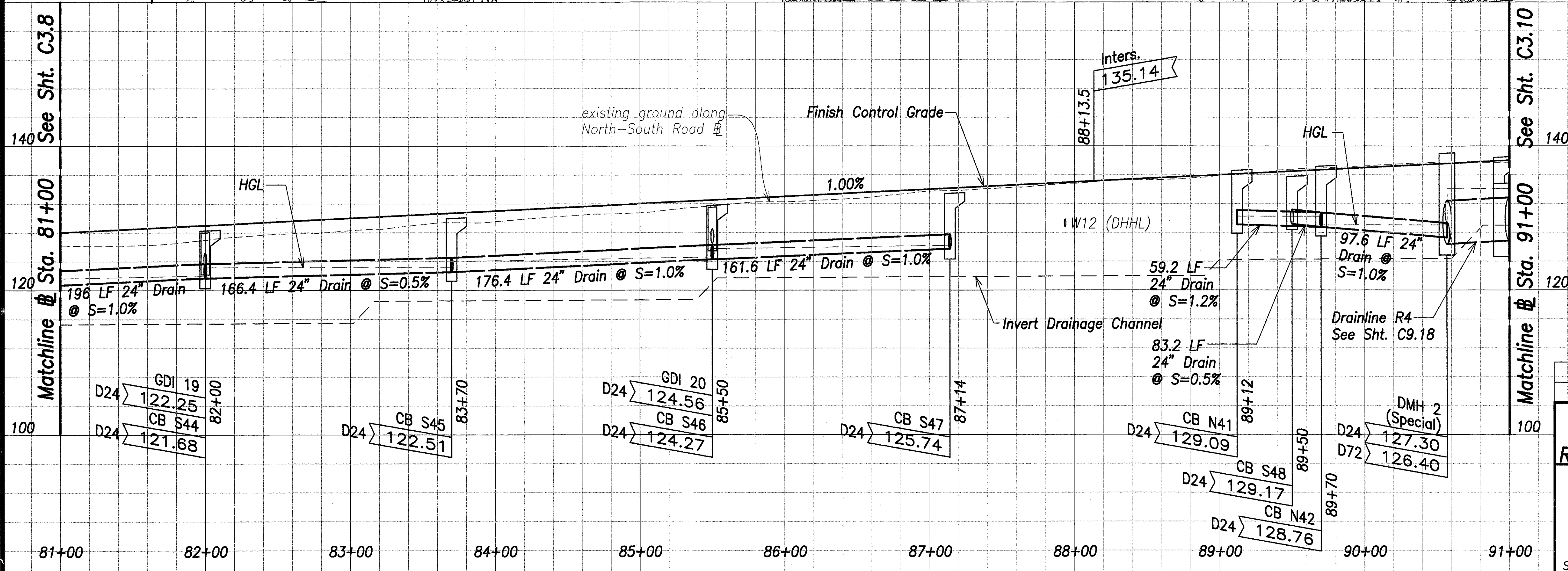
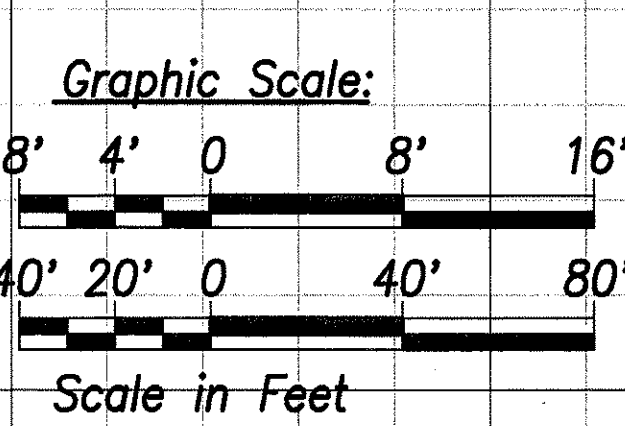


| DATE    | REVISION                                                  |
|---------|-----------------------------------------------------------|
| 5/31/07 | Revised GDI top and median swale; added interceptor ditch |
| 5/11/07 | Revised catch basin type                                  |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | ADD. 52   | 331          |



APR 30, 2008  
DATE OF LICENSE EXPIRY



|         |                           |
|---------|---------------------------|
| 5/31/07 | Revised GDI, median swale |
| DATE    | REVISION                  |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY GRADING & DRAINAGE  
PLAN & PROFILE - 9**

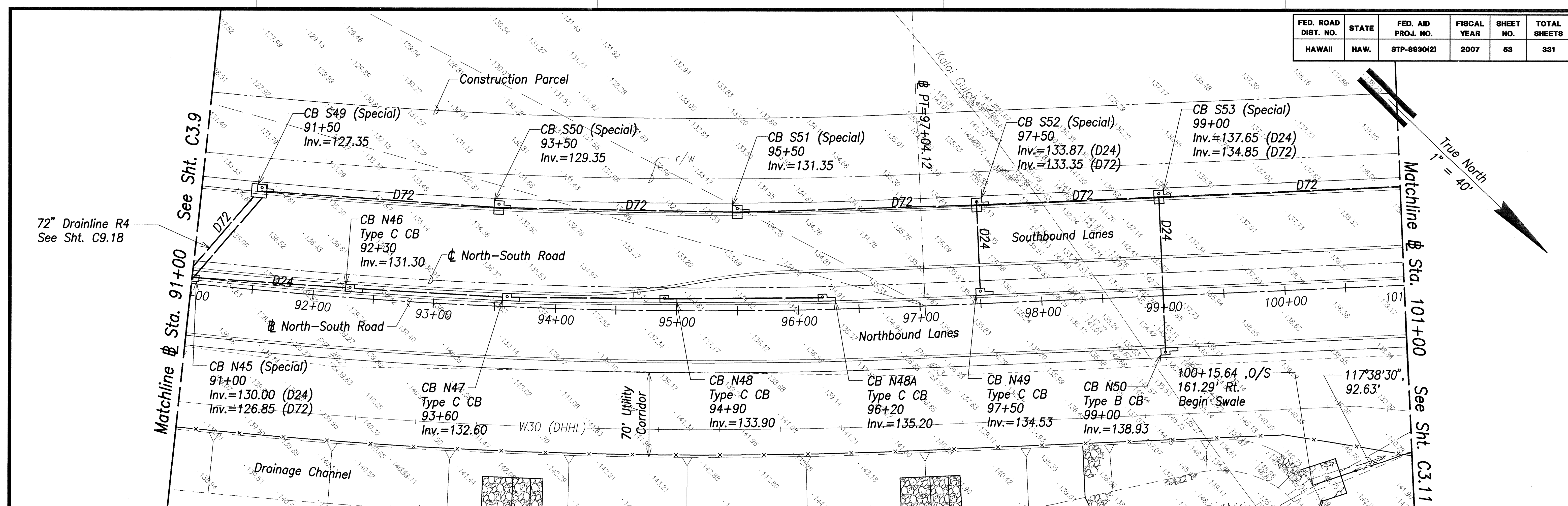
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Scale: As Shown Date: Feb 21, 2007

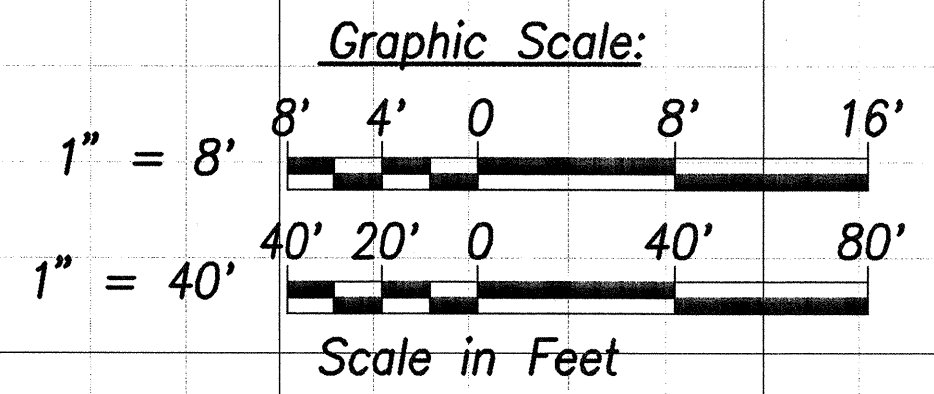
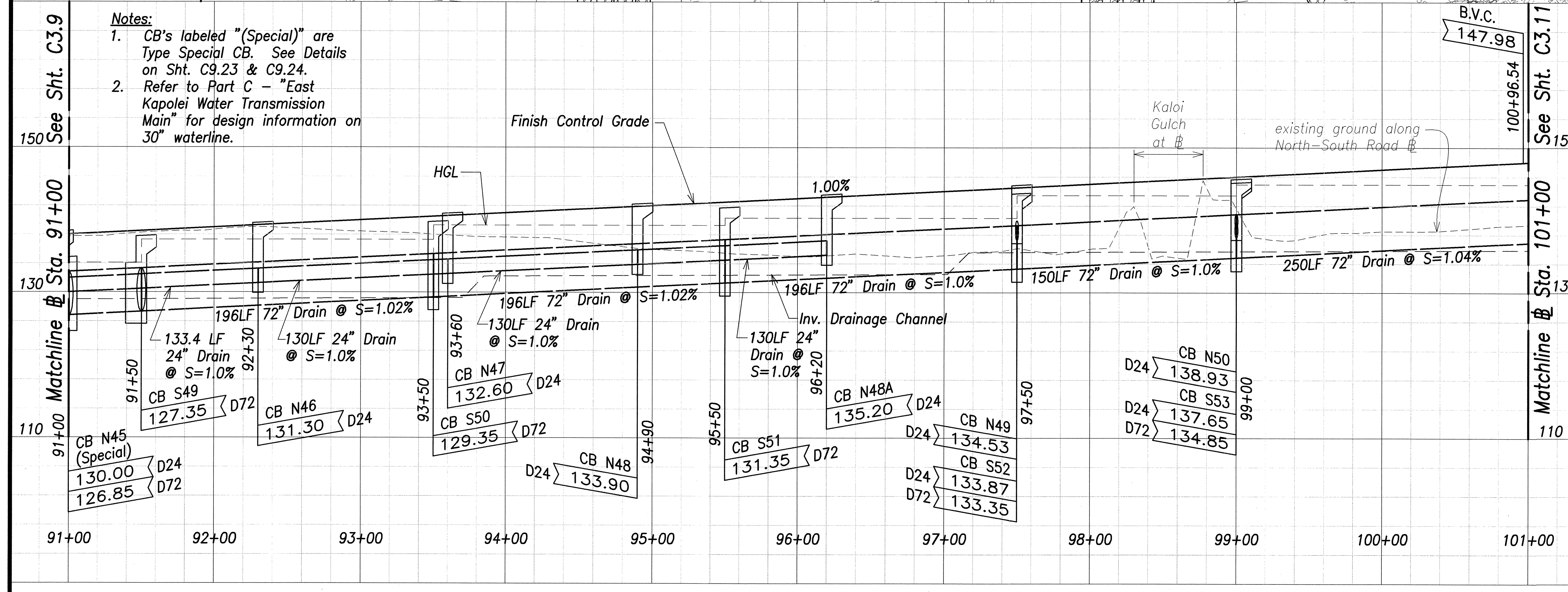
SHEET No. C3.9 OF 150 SHEETS

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

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 53        | 331          |



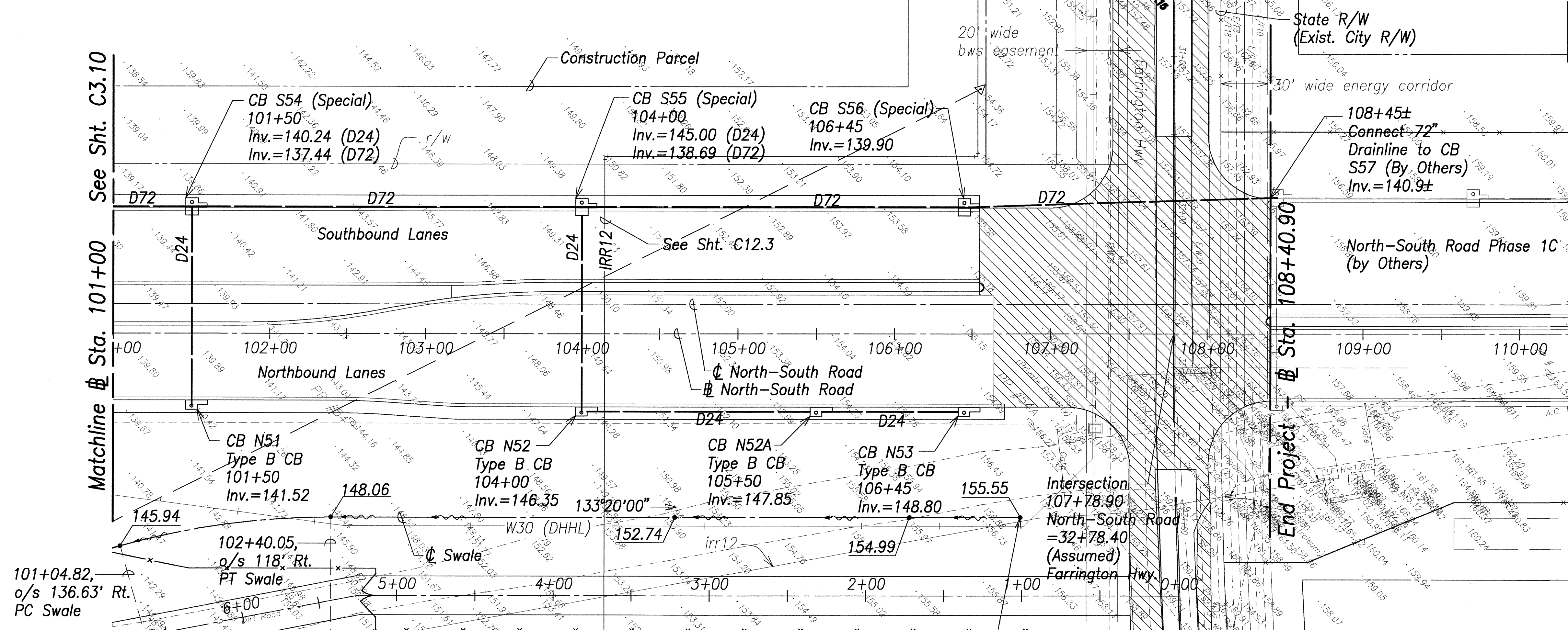
- Notes:**
1. CB's labeled "(Special)" are Type Special CB. See Details on Sht. C9.23 & C9.24.
  2. Refer to Part C - "East Kapolei Water Transmission Main" for design information on 30" waterline.



STATE OF HAWAII  
HIGHWAYS DIVISION  
**ROADWAY GRADING & DRAINAGE**  
**PLAN & PROFILE - 10**  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)  
Scale: As Shown      Date: Feb 21, 2007  
SHEET No.C3.10 OF 150 SHEETS

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| NO.               |      |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 54        | 331          |



**Swale & Curve Data**

$\Delta = 15^\circ 41' 30''$   
 $R = 500.00'$   
 $T = 68.90'$   
 $C = 136.51'$   
 $L_c = 136.93'$

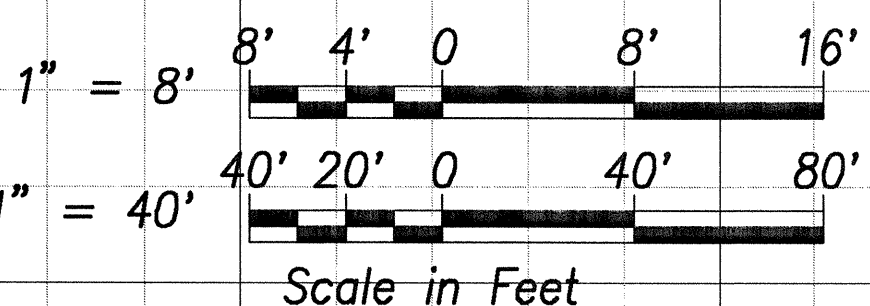
**Notes:**

1. CB's labeled "(Special)" are Type Special CB. See Details on Sht. C9.23 & C9.24.
2. Refer to Part C - "East Kapolei Water Transmission Main" for design information on 30" waterline.



APR 30, 2008  
DATE OF LICENSE EXPIRY

**Graphic Scale:**



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**ROADWAY GRADING & DRAINAGE**  
**PLAN & PROFILE - 11**  
 North-South Road  
 Phase 1C  
 F.A.I. Proj. No. STP-8930(2)  
 Scale: As Shown Date: Feb 21, 2007  
 SHEET No. C3.11 OF 150 SHEETS

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