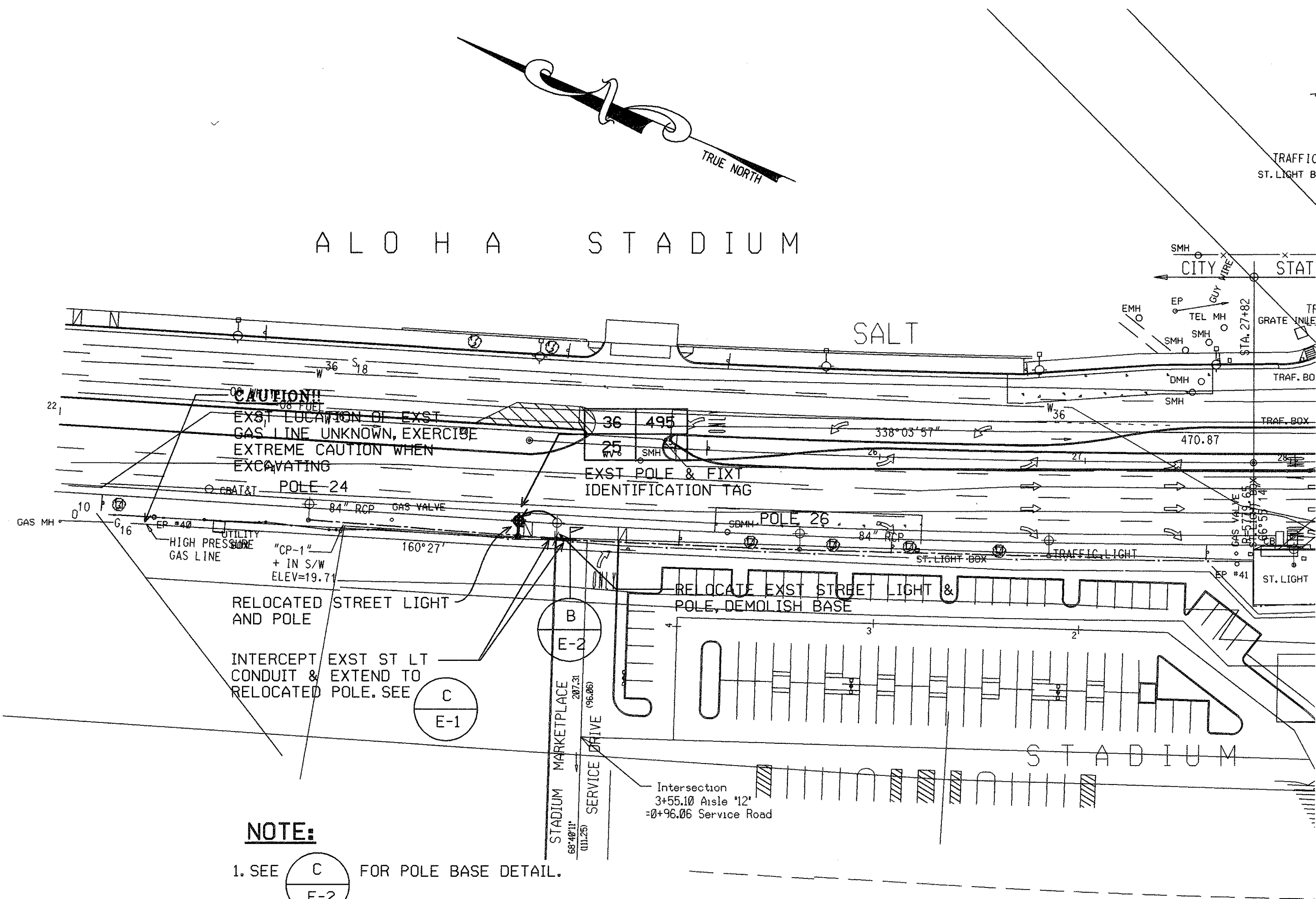
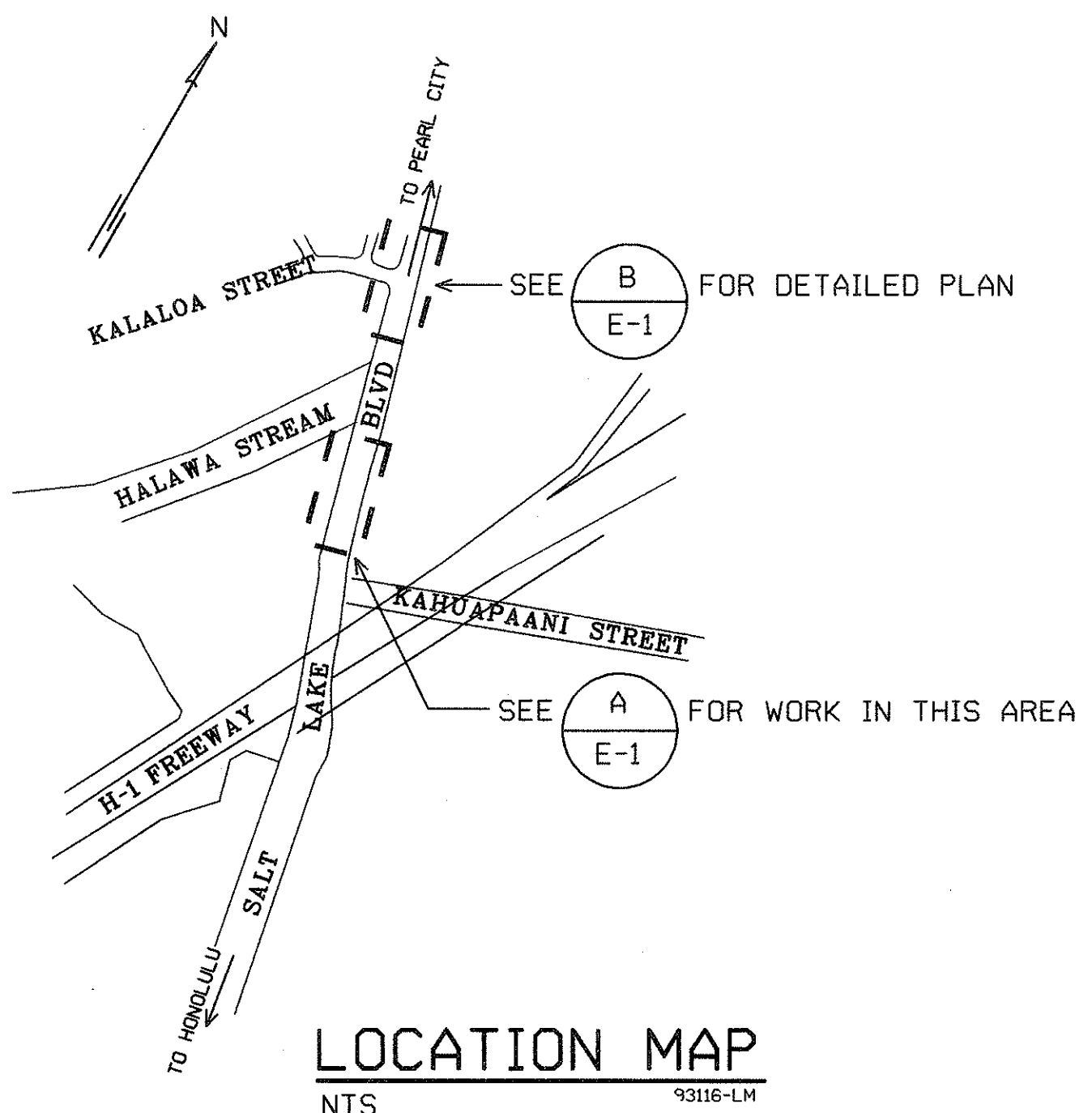




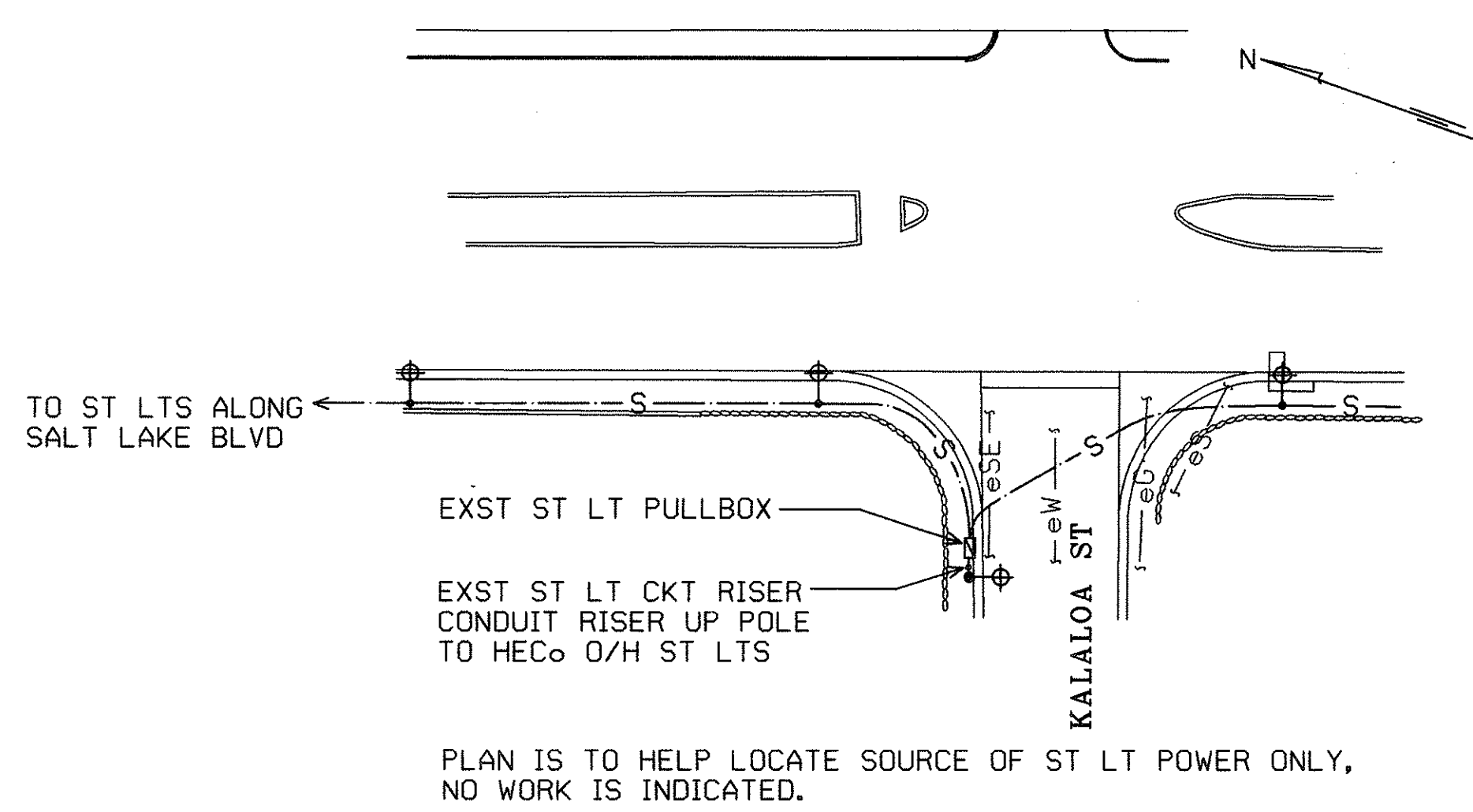
**A SITE ELECTRICAL PLAN**  
E-1 SCALE: 1" = 40'-0" 93116-S1



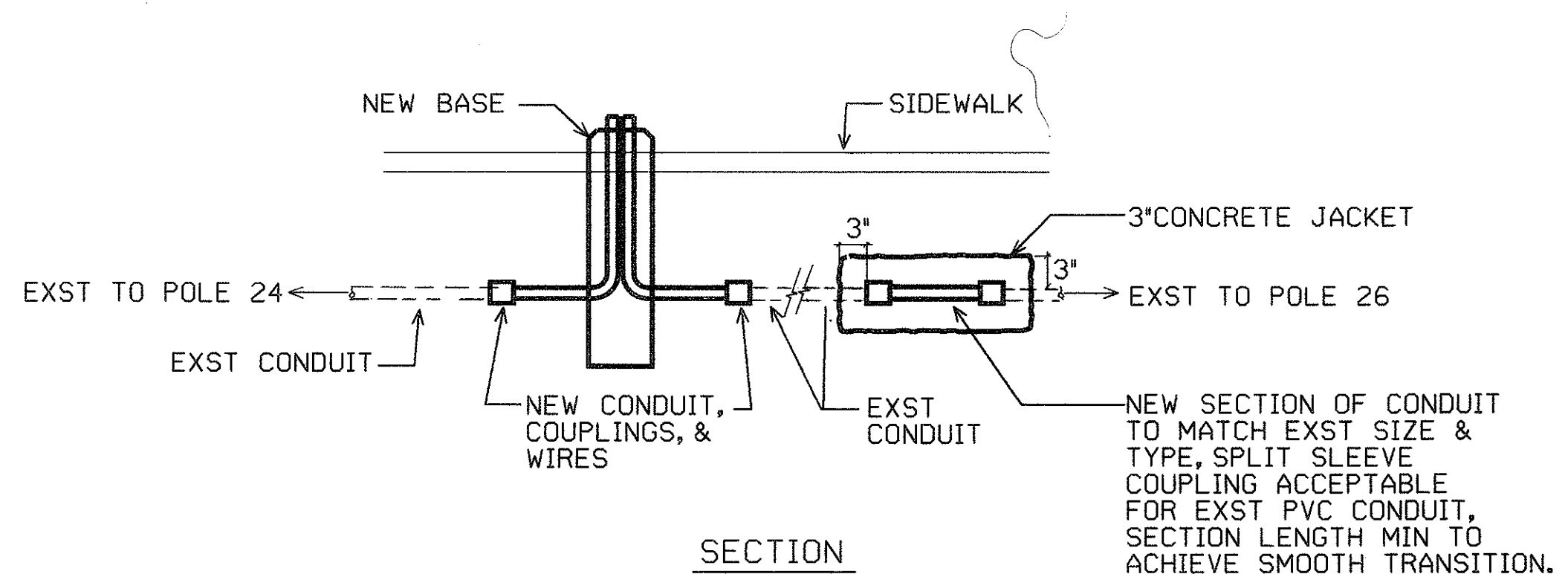
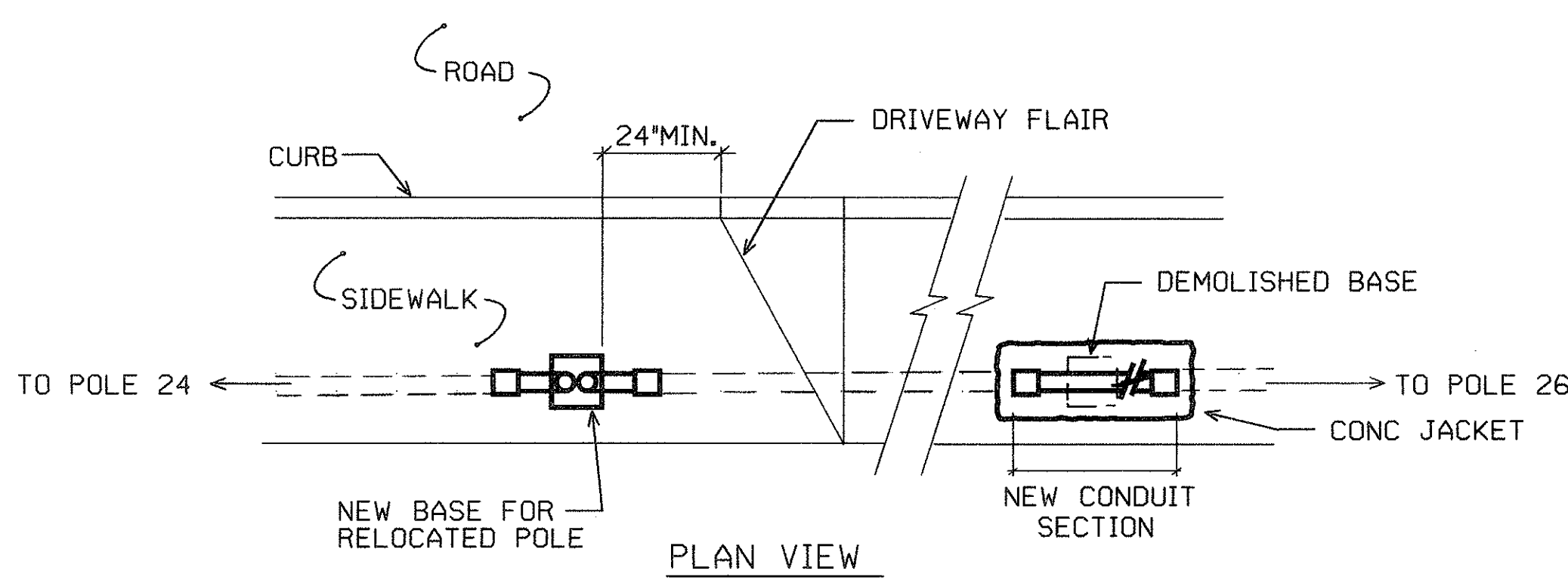
**LOCATION MAP**  
NTS 93116-LM

**ELECTRICAL SYMBOLS**

| EXST | NEW | DESCRIPTION         |
|------|-----|---------------------|
|      |     | STREET LIGHT & POLE |
|      |     | U/G DUCT LINE       |
|      |     | U/G GAS LINE        |



**B PARTIAL SITE ELECTRICAL PLAN**  
E-1 SCALE: 1" = 40'-0" 93116-S2



**C ST. LT. DUCT DETAIL**  
E-1 NO SCALE 93116SD

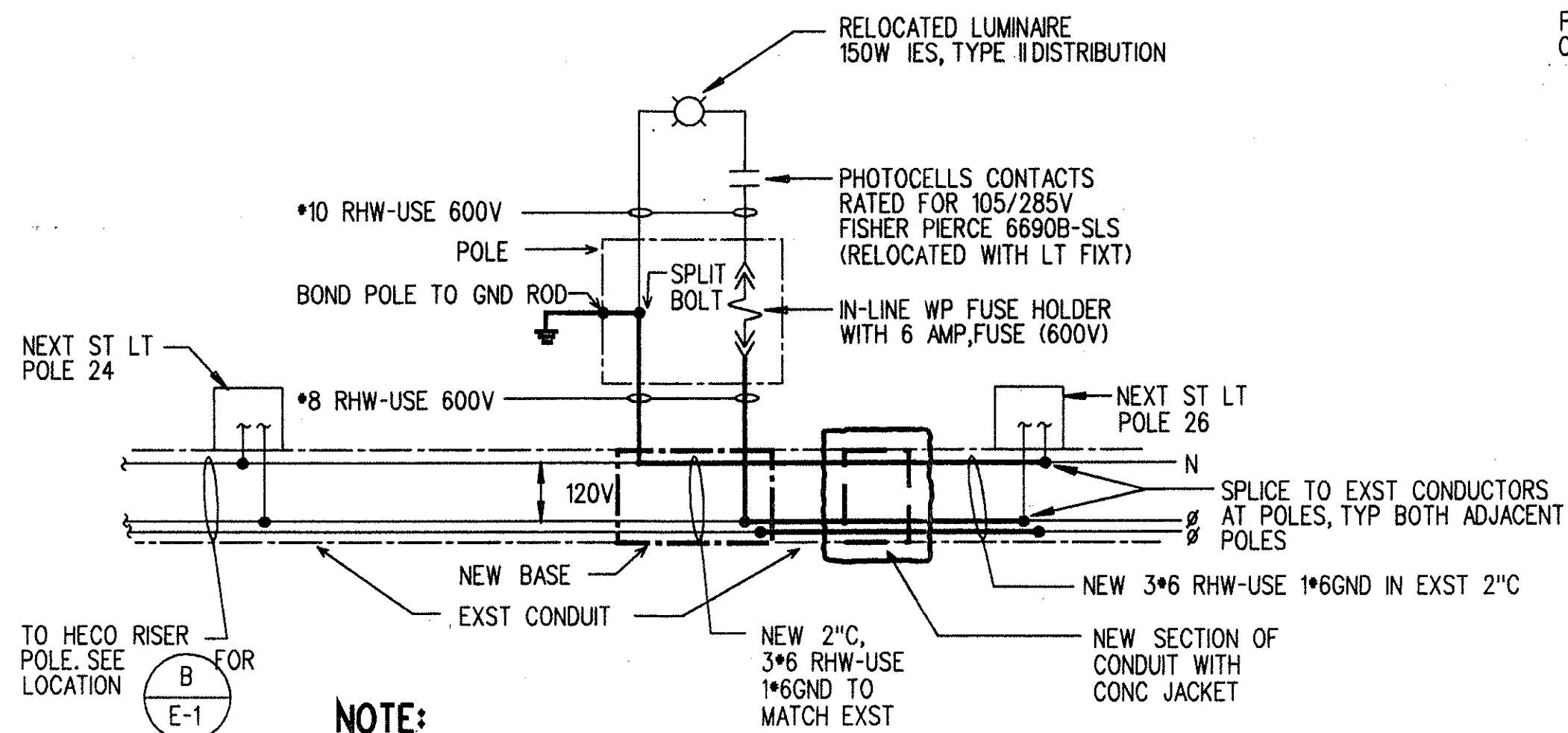
APPROVED: NOT REQUIRED  
HAWAIIAN ELECTRIC COMPANY

APPROVED: (FOR STREET LIGHT RELOCATION ONLY)  
R. K. KATAHARA  
DEPT. OF TRANSPORTATION SERVICES  
CITY & COUNTY OF HONOLULU

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
R. K. KATAHARA  
REGISTERED PROFESSIONAL ENGINEER  
No. 3181-E  
HAWAII, U.S.A.

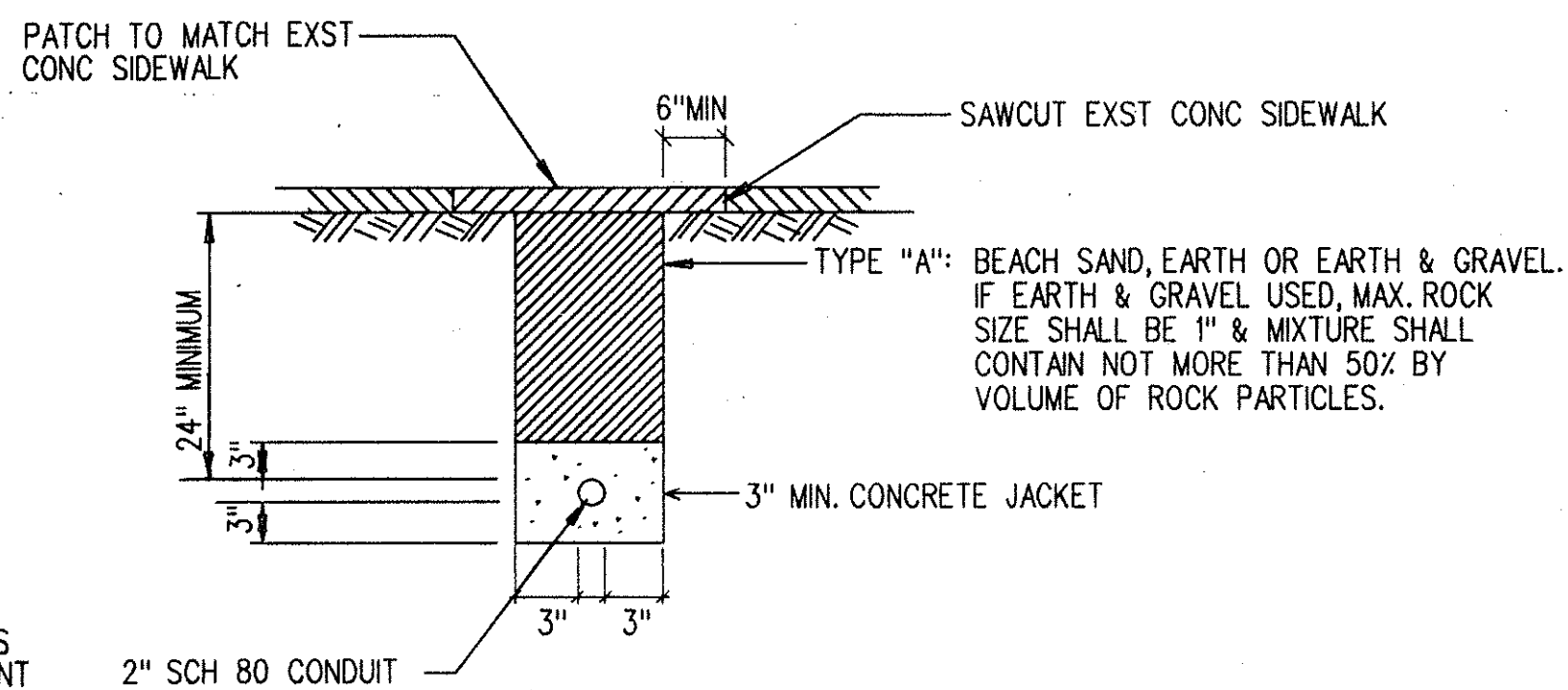
| REVISION                                                                                                                                                            | DATE | DESCRIPTION | BY | APPR'D.    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|----|------------|
|                                                                                                                                                                     |      |             |    |            |
| <b>GRAY, HONG, BILLS &amp; ASSOCIATES, INC.</b><br>CONSULTING ENGINEERS<br>119 MERCHANT ST. SUITE 607<br>HALAWA, EWA, OAHU, HAWAII                                  |      |             |    |            |
| <b>SALT LAKE BOULEVARD IMPROVEMENTS AT STADIUM MARKETPLACE</b><br>UNDER THE PROVISIONS OF ORDINANCE 2412, AS AMENDED<br>T.M.K.: 9-9-02<br>HALAWA, EWA, OAHU, HAWAII |      |             |    |            |
| <b>SITE ELECTRICAL PLAN, LOCATION PLAN SYMBOLS &amp; ST LT DUCT SECTION</b>                                                                                         |      |             |    |            |
| ENGINEER                                                                                                                                                            | PKU  | DRAWN BY    |    | CHECKED BY |
| APPROVED BY:                                                                                                                                                        |      |             |    |            |

| FILE | PROJECT | FOLDER | NO |
|------|---------|--------|----|
|      |         |        |    |

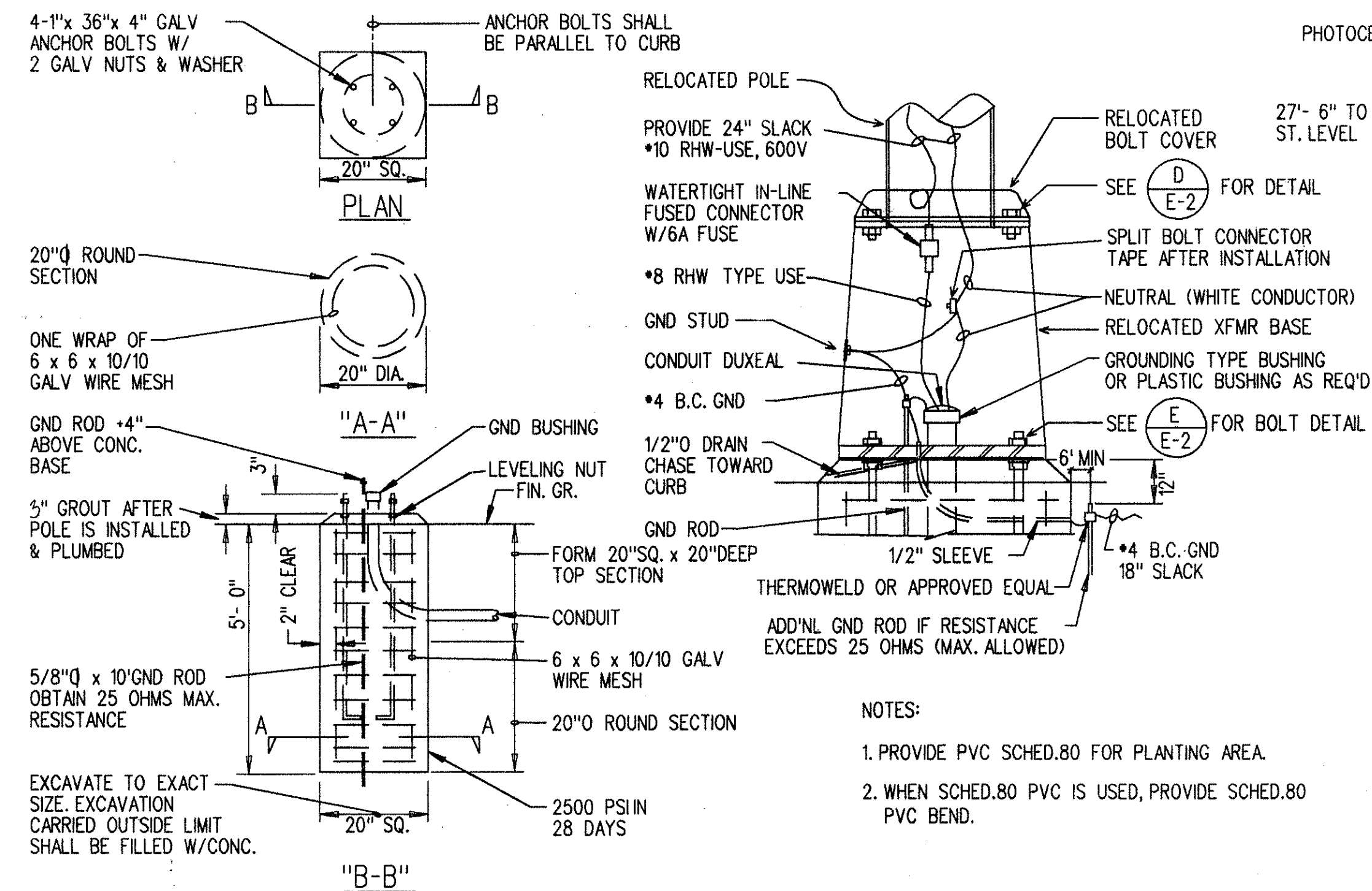


- NOTE:**
1. ALL NEUTRAL CONDUCTOR MUST HAVE WHITE INSULATION. ANY OTHER METHOD OF IDENTIFICATION IS UNACCEPTABLE.
  2. LIGHT LINES DENOTES EXISTING ITEMS. BOLD LINES INDICATE NEW WORK.
  3. DO NOT SPLICE IN CONDUIT.

**A STREET LIGHT ONE-LINE DIAGRAM**  
E-2



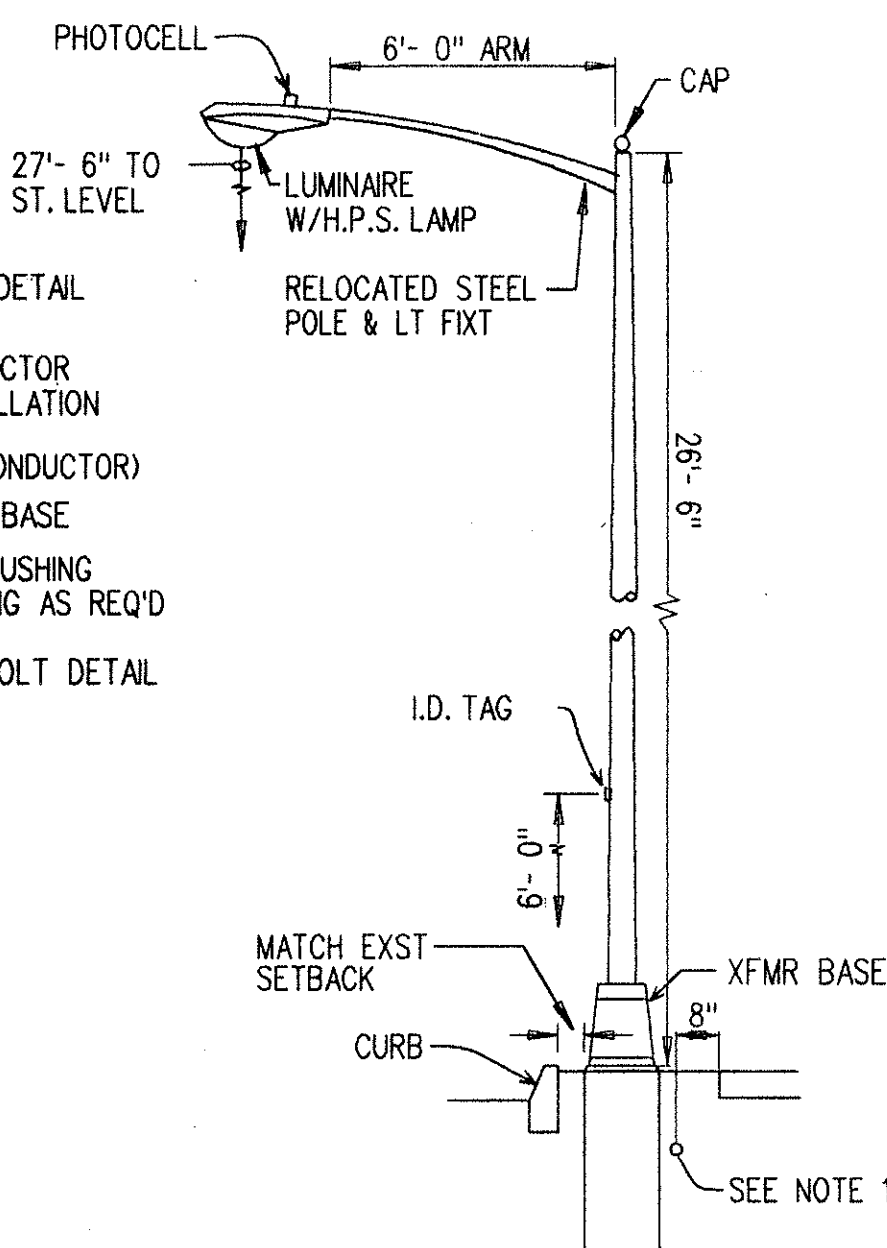
**B DUCT SECTION DETAIL**  
E-2 NOT TO SCALE



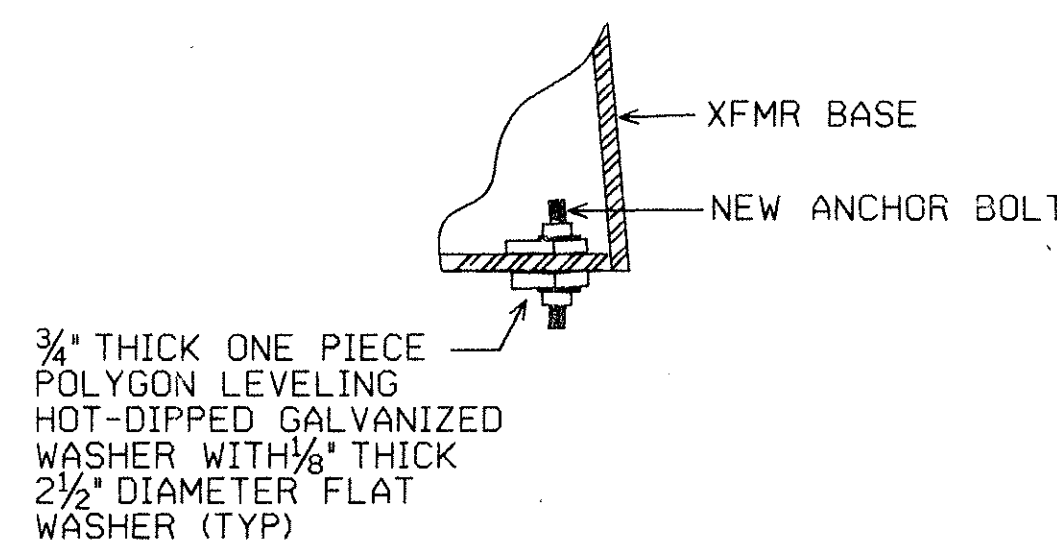
NEW CONCRETE BASE DETAIL

LIGHT STANDARD RELOCATION DETAIL

**C STREET LIGHT DETAILS**  
E-2 NOT TO SCALE



**D BOLT DETAIL**  
E-2 93116-B0



**E ANCHOR BOLT DETAIL**  
E-2 93116-B0

ELECTRICAL AND MAINTENANCE SERVICES DIVISION NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL AND MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE STREET LIGHTING SYSTEM. (PHONE 527-5002)
2. STREET LIGHTING SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE APPROVED BY THE ELECTRICAL AND MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES AND PAID FOR BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES AND DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS COST WITH NO ADDITIONAL COST TO THE CITY.
4. THE ABANDONED CONCRETE BASE SHALL BE DEMOLISHED TO A LEVEL OF AT LEAST 24" BELOW THE EXISTING GROUND LEVEL AND THE SIDEWALK SURFACE AREA RESTORED TO MATCH THE EXISTING.

APPROVED: *NOT REQUIRED*  
HAWAIIAN ELECTRIC COMPANY DATE

APPROVED: (FOR STREET LIGHT RELOCATION ONLY)  
*11/8/93*  
DEPT. OF TRANSPORTATION SERVICES  
CITY & COUNTY OF HONOLULU DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
*P. K. KATAHARA*  
REGISTERED PROFESSIONAL ENGINEER  
No. 3181-E  
HAWAII, U.S.A.

| REVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DATE | DESCRIPTION | BY | APPROD. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|----|---------|
| <p><b>GRAY, HONG, BILLS &amp; ASSOCIATES, INC.</b><br/>CONSULTING ENGINEERS<br/>119 MERCHANT ST. SUITE 607</p> <p><b>SALT LAKE BOULEVARD IMPROVEMENTS AT STADIUM MARKETPLACE</b><br/>UNDER THE PROVISIONS OF ORDINANCE 2412, AS AMENDED<br/>T.M.X. 9-9-02<br/>HALAWA, EWA, OAHU, HAWAII</p> <p><b>STREET LIGHT DETAILS &amp; DUCT SECTION</b></p> <p>ENGINEER <u>PKU</u> DRAWN BY <u>          </u> CHECKED BY <u>          </u></p> <p>APPROVED BY: <u>          </u></p> |      |             |    |         |