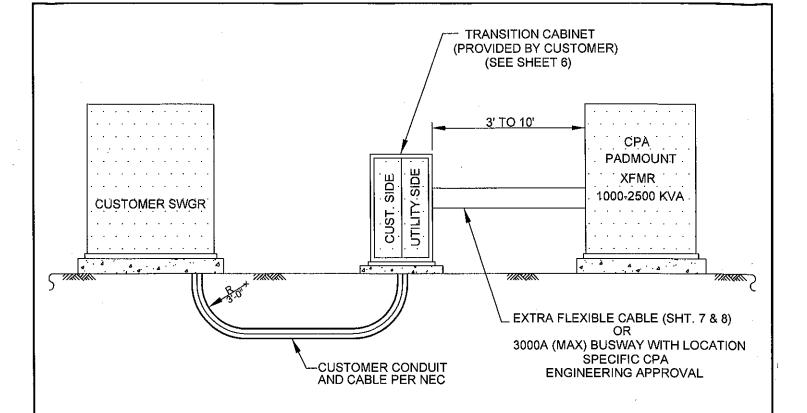


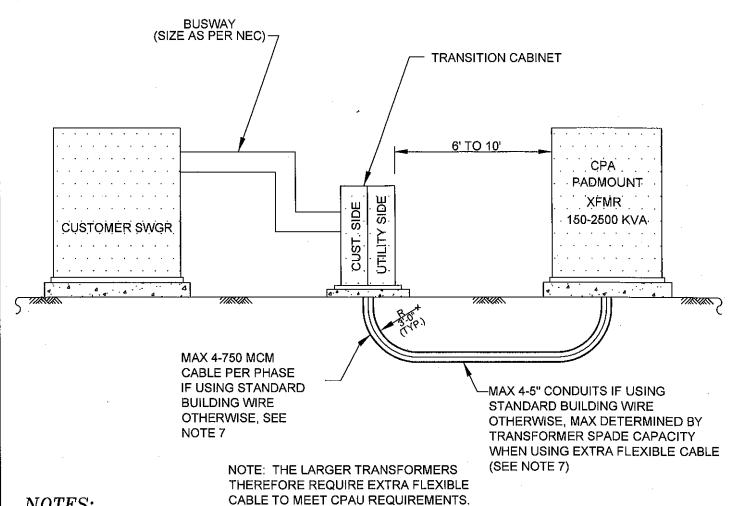
- STANDARD SECONDARY CONNECTION SHALL BE MADE WITH EXTRA FLEXIBLE CABLE AS SHOWN ON SHT 7 & 8 IN ACCORDANCE WITH CPAU DRAWING DT-SE-U-1032. ALTERNATIVELY, A BUSWAY ASSEMBLY AS SHOWN ON SHT. 5 MAY BE USED, WITH UTILITIES' APPROVAL, TO CONNECT THE TRANSFORMER SECONDARY TERMINALS TO THE BUSWAY INSIDE THE TRANSFORMER SECONDARY COMPARTMENT.
- 2. FOR SERVICE LARGER THAN 1600 AMPS, THE CUSTOMER MAY INSTALL BUSWAY FROM THE CUSTOMER'S SWITCHGEAR DIRECTLY TO UTILITY'S PADMOUNT TRANSFORMER, WITH UTILITIES' APPROVAL.
- 3. ANY ATTACHMENT TO THE TRANSFORMER SECONDARY TERMINALS SHALL BE PERFORMED BY UTILITIES.
- 4. ALL BUSWAY DESIGN AND CONFIGURATION SHALL BE SUBMITTED TO UTILITIES FOR REVIEW & APPROVAL PRIOR TO PROCUREMENT AND FABRICATION.
- 5. BUSWAY SHALL CONFORM TO ARTICLE 364 OF THE NATIONAL ELECTRICAL CODE.
- BUSWAY SHALL BE RATED ACCORDING TO THE SERVICE ENTRANCE OVERCURRENT PROTECTION DEVICE AND FABRICATED PER ANSI 37:23.
- 7. THE DESIGNATED SERVICE POINT SHALL BE THE SECONDARY TERMINALS OF THE TRANSFORMER.
- 8. THE TRANSITION CABINET SHALL BE FABRICATED PER DRAWING # SR-XF-E-1020 SHT. 6 OR APPROVED EQUIVALENT.
- 9. UTILITIES (AT CUSTOMER'S EXPENSE) WILL PROVIDE LUGS ON THE TRANSFORMER SECONDARY TERMINALS. CUSTOMER SHALL PROVIDE/INSTALL LUGS AND TERMINATE CABLES AT SWITCHGEAR OR TRANSITION CABINET.

| | | | 5 | 6/13 | TING | ADDED NOTE 9 & OTHER MINOR REVISION | |
|---|----------|---------------------------------|------|-------|--------|--|--|
| TRANSITION CABINET FOR 1000-2500 KVA TRANSFORMERS | | | | 12/08 | TING | REVISED NOTES | |
| ed | | | 3 | 02/06 | BUJTOR | CONVERTED TO A'CAD, REVI'SD. NOTES & ADDED DWG. NO. | |
| APPROVED | TŔA | TRANSITION CABINET | 2 | 06/99 | FINCH | REVISED NOTES | |
| m District | | • | 1 | 3/94 | APPR. | DRAWING RENAMED | |
| SR ENSINDER AMANAGER | | | REV. | DATE | APPR. | DESCRIPTION | |
| ENGR. 6. Sansath | <u> </u> | City of Palo Alto | MAP# | CKT# | SCALE | S.O.# / DRAWING # | |
| DRWN Mi defishid | | City of Palo Alto California | хх | XX | NTS | SR-XF-E-1020 | |
| CHKD. P. Valath | | UTILITIES, ELECTRIC ENGINEERING | | | ',,,, | SHEET 1 OF 8 | |



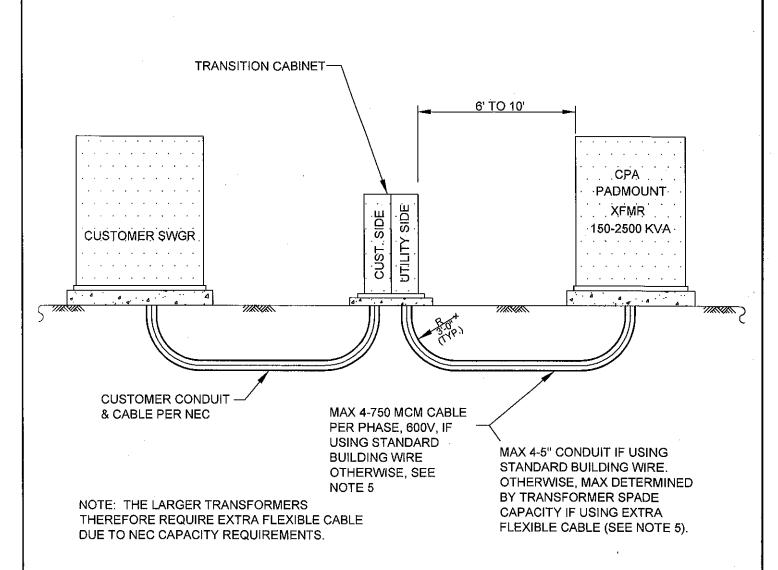
- 1. STANDARD SECONDARY CONNECTION SHALL BE MADE WITH EXTRA FLEXIBLE CABLE AS SHOWN ON SHT. 7 & 8 IN ACCORDANCE WITH CPAU DRAWING DT-SE-U-1032. ALTERNATIVELY, A BUSWAY ASSEMBLY AS SHOWN ON SHT. 5 MAY BE USED, WITH UTILITIES'APPROVAL, TO CONNECT THE TRANSFORMER SECONDARY TERMINALS TO THE BUSWAY INSIDE THE TRANSFORMER SECONDARY COMPARTMENT.
- 2. THE CUSTOMER MAY, WITH UTILITIES' APPROVAL, INSTALL BUSWAY FROM TRANSFORMER TO TRANSITION CABINET AND CABLES FROM TRANSITION CABINET TO CUSTOMER SWITCHGEAR FOR TRANSFORMERS RATED 1000 KVA TO 2500 KVA.
- 3. ANY ATTACHMENT TO THE TRANSFORMER SECONDARY TERMINALS SHALL BE PERFORMED BY UTILITIES.
- 4. ALL BUSWAY DESIGN AND CONFIGURATION SHALL BE SUBMITTED TO UTILITIES FOR REVIEW & APPROVAL PRIOR TO PROCUREMENT AND FABRICATION.
- 5. BUSWAY SHALL CONFORM TO ARTICLE 364 OF THE NATIONAL ELECTRICAL CODE.
- BUSWAY SHALL BE RATED ACCORDING TO THE SERVICE ENTRANCE OVERCURRENT PROTECTION DEVICE AND FABRICATED PER ANSI 37.23.
- 7. THE DESIGNATED SERVICE POINT SHALL BE THE SECONDARY TERMINALS OF THE TRANSFORMER.
- 8. THE TRANSITION CABINET SHALL BE FABRICATED PER DRAWING # SR-XF-E-1020 SHT. 6 OR APPROVED EQUIVALENT.
- UTILITIES (AT CUSTOMER'S EXPENSE) WILL PROVIDE LUGS ON THE TRANSFORMER SECONDARY TERMINALS.
 CUSTOMER SHALL PROVIDE/INSTALL LUGS AND TERMINATE CABLES AT SWITCHGEAR OR TRANSITION CABINET.

| | | | 5 | 6/13 | TING | ADDED NOTE 9 & OTHER MINOR REVISIONS | |
|---|--------|---------------------------------|------|-------|--------|--|--|
| TRANSITION CABINET FOR 1000-2500 KVA TRANSFORMERS | | | | | TING | REVISED NOTES | |
| ed | | | 3 | 02/06 | BUJTOR | CONVERTED TO A'CAD, REVI'SD. NOTES & ADDED DWG. NO. | |
| APPROVED | TRA | RANSITION CABINET | 2 | 06/99 | FINCH | REVISED NOTES | |
| M Did or soil | | | 1 | 3/94 | APPR. | DRAWING RENAMED | |
| SR EWGINDER WANAGER | 111/1/ | | REV. | DATE | APPR. | DESCRIPTION | |
| ENGR. AG. Agardath | | City of Palo Alto | MAP# | CKT# | SCALE | S.O.# / DRAWING # | |
| DRWN M Marnshid | Think | California | XX | XX | NTS | SR-XF-E-1020 | |
| CHKD. P. Valath | 4411 | UTILITIES, ELECTRIC ENGINEERING | | | | SHEET 2 OF 8 | |

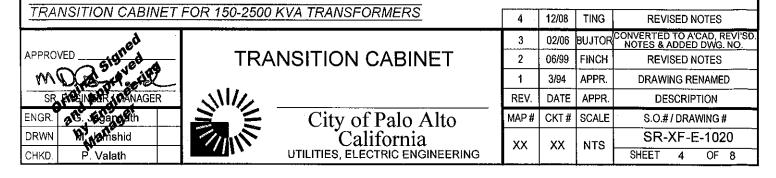


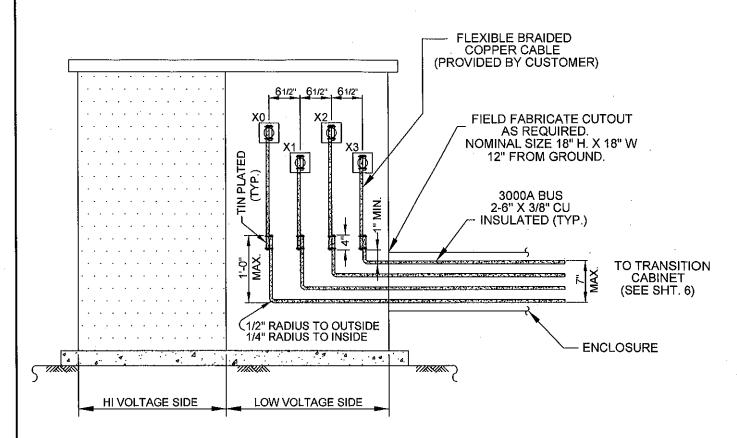
- UTILITIES SHALL FURNISH, INSTALL AND CONNECT THE SERVICE LATERAL CONDUCTORS BETWEEN THE TRANSITION CABINET AND TRANSFORMER SECONDARY TERMINALS IF STANDARD BUILDING WIRE IS USED. OTHERWISE THE CUSTOMER FURNISHES AND INSTALLS EXTRA FLEXIBLE CABLE PER SHT. 7 & 8 IN ACCORDANCE WITH CPAU DRAWING # DT-SE-U-1032.
- CUSTOMER HAS THE OPTION TO INSTALL BUSWAY FROM THE CABINET TO THE SWITCHGEAR. 2.
- ALL BUSWAY DESIGN AND CONFIGURATION SHALL BE SUBMITTED TO UTILITIES FOR REVIEW AND APPROVAL PRIOR 3. TO PROCUREMENT AND FABRICATION.
- BUSWAY SHALL CONFORM TO ARTICLE 364 OF THE NATIONAL ELECTRICAL CODE. 4.
- THE DESIGNATED SERVICE POINT SHALL BE THE CUSTOMER SUPPLIED TRANSITION CABINET IF USING STANDARD 5. BUILDING CABLE, THE SECONDARY TERMINALS OF THE TRANSFORMER IF USING EXTRA FLEXIBLE CABLE.
- THE TRANSITION CABINET SHALL BE FABRICATED PER DRAWING # SR-XF-E-1020 SHT. 6 OR APPROVED EQUIVALENT. 6.
- IF USING EXTRA FLEXIBLE CABLE WHERE CABLE AND CONDUITS PER PHASE CAN BE EXCEEDED. CONFIRM THAT 7. TRANSFORMER SPADES HAVE ADEQUATE CONNECTOR HOLES AND HAVE VERTICAL STRUCTURAL SUPPORTS (REF. SHT. 7 & 8).
- UTILITIES (AT CUSTOMER'S EXPENSE) WILL PROVIDE LUGS ON THE TRANSFORMER SECONDARY TERMINALS. 9. CUSTOMER SHALL PROVIDE/INSTALL LUGS AND TERMINATE CABLES AT SWITCHGEAR OR TRANSITION CABINET.

| TRANSITION CABINET FOR 150-2500 KVA TRANSFORMERS | | | | | TING | REVISED NOTES |
|--|--------------------|---------------------------------|------|-------|--------|--|
| ed | | | 3 | 02/06 | BUJTOR | CONVERTED TO A'CAD, REVISED NOTES & ADDED DWG. NO. |
| APPROVED | TRANSITION CABINET | | 2 | 06/99 | FINCH | REVISED NOTES |
| m Distance will | | | 1 | 3/94 | APPR. | DRAWING RENAMED |
| SR ANGINEER MANAGER | | · · | REV. | DATE | APPR. | DESCRIPTION |
| ENGR. AG. Agardath | N | City of Palo Alto | MAP# | CKT# | SCALE | S.O.# / DRAWING # |
| DRWN Mamshid | | California | хх | xx | NTS | SR-XF-E-1020 |
| CHKD. P. Valath | | UTILITIES, ELECTRIC ENGINEERING | ,,,, | 7.7. | | SHEET 3 OF 8 |

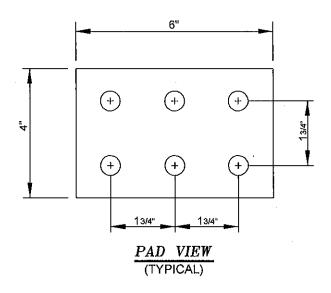


- 1. THE CITY SHALL FURNISH, INSTALL AND CONNECT THE SERVICE LATERAL CONDUCTORS BETWEEN THE TRANSITION CABINET AND TRANSFORMER SECONDARY TERMINALS IF STANDARD BUILDING WIRE IS USED. OTHERWISE THE CUSTOMER FURNISHES AND INSTALLS EXTRA FLEXIBLE CABLE PER SHT. 7 & 8 IN ACCORDANCE WITH CPAU DRAWING # DT-SE-U-1032.
- 2. CUSTOMER SHALL INSTALL CABLES FROM THE TRANSITION CABINET TO THE SWITCHGEAR.
- 3. THE DESIGNATED SERVICE POINT SHALL BE THE CUSTOMER SUPPLIED TRANSITION CABINET.
- 4. THE TRANSITION CABINET SHALL BE FABRICATED PER DRAWING # SR-XF-E-1020 SHT. 6 OR APPROVED EQUIVALENT.
- 5. IF USING EXTRA FLEXIBLE CABLE WHERE CABLE AND CONDUITS PER PHASE CAN BE EXCEEDED, CONFIRM THAT TRANSFORMER SPADES HAVE ADEQUATE CONNECTOR HOLES AND HAVE VERTICAL STRUCTURAL SUPPORTS (REF. SHT. 7 & 8).
- 9. UTILITIES (AT CUSTOMER'S EXPENSE) WILL PROVIDE LUGS ON THE TRANSFORMER SECONDARY TERMINALS. CUSTOMER SHALL PROVIDE/INSTALL LUGS AND TERMINATE CABLES AT SWITCHGEAR OR TRANSITION CABINET.





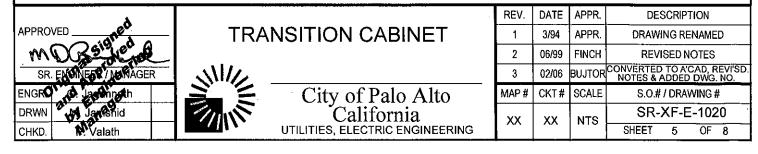
PADMOUNT 3-PHASE DISTRIBUTION TRANSFORMER 1000-2500 KVA

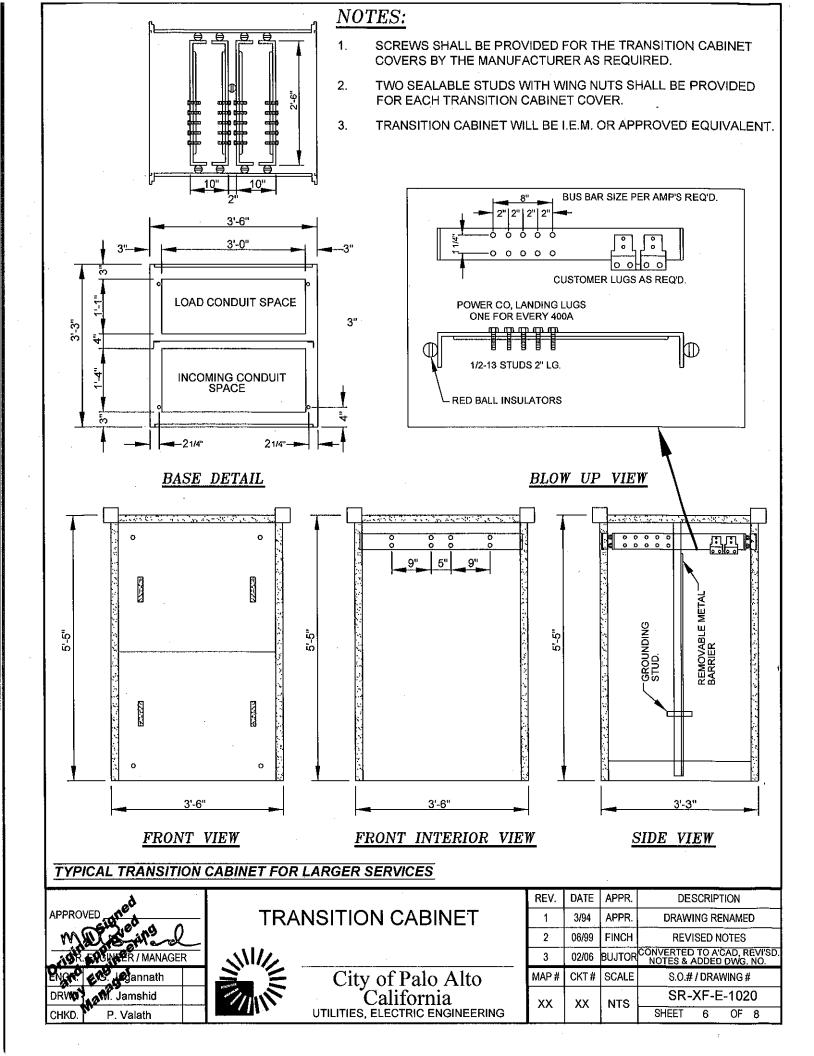


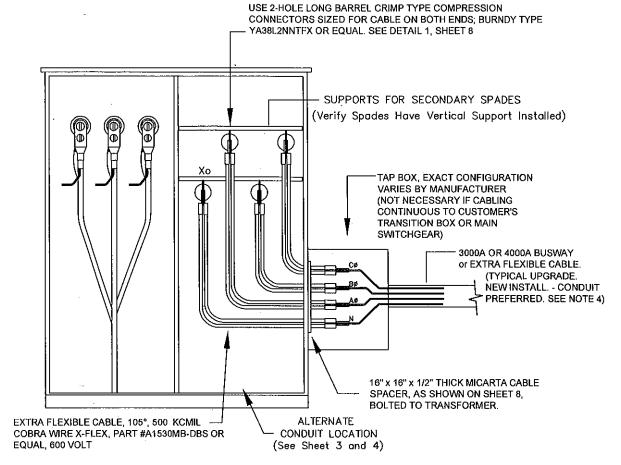
NOTES:

STANDARD SECONDARY CONNECTION WILL BE MADE WITH EXTRA FLEXIBLE CABLE AS SHOWN ON SHTS.
 8. THIS BUSWAY ARRANGEMENT IS WITH LOCATION SPECIFIC CPA ENGINEERING APPROVAL ONLY.
 REFERENCE SHTS. 1 & 2.

3000 AMP BUSWAY ARRANGEMENT AT TRANSFORMER







UTILITY GUIDE ONLY:

750 KVA: 4 (@ 480 V) OR 6 (@ 208 V) CONDUCTORS PER PHASE AND NEUTRAL

1000 KVA: 4 CONDUCTORS PER PHASE AND NEUTRAL 1500 KVA: 4 CONDUCTORS PER PHASE AND NEUTRAL

2000 KVA: 6 CONDUCTORS PER PHASE AND NEUTRAL

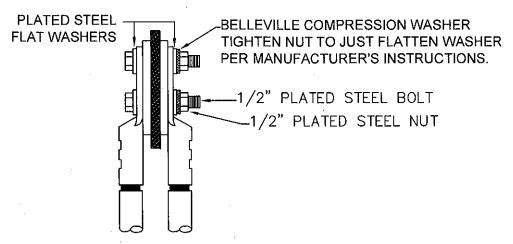
2500 KVA: 7 CONDUCTORS PER PHASE AND NEUTRAL

<u>NOTES:</u>

- CABLE TO BE SIZED PER CPAU DWG # DT-SE-U-1032. IF USING ALTERNATE CONDUIT LOCATION, STANDARD CABLE MAY BE USED, NOT TO EXCEED 4-750 MCM PER PHASE AND IN ACCORDANCE WITH CPAU DWG # DT-SE-U-1032.
- THE DESIGNATED SERVICE POINT PER THE NATIONAL ELECTRIC CODE SHALL BE THE SECONDARY TERMINALS AT THE TRANSFORMER.
- 3. THE CUSTOMER SHALL FURNISH ALL HARDWARE AND MATERIALS NEEDED FOR A COMPLETE INSTALLATION.
- 4. IF GREATER THAN 3000A SERVICE, CALL CPA UTIL. ENGR. DEPT. AT 566-4500. USE OF 750KCMIL AND ELIMINATION OF TRANSITION CABINET MAY BE POSSIBLE.

5. CABLING BETWEEN TRANSFORMER AND CUSTOMER'S SWITCHGEAR SHALL BE SIZED PER CPAU DWG # DT-SE-U-1032 IF NOT USING A TRANSITION CABINET.

| BUSWAY CONNECTION FOR TRANSFORMER SECONDARY | | | | TING V | REVISED UTL GUIDE |
|---|---------------------------------|------|-------|--------|--|
| BUSWAY CONNECTION | FOR TRANSFORMER SECUNDARY | 4 | 12/08 | TING | REVISED NOTES |
| λ | | 3 | 02/06 | BUJTOR | CONVERTED TO A'CAD, REVI'SD. NOTES & ADDED DWG, NO. |
| APPROVED | TRANSITION CABINET | 2 | 06/99 | FINCH | REVISED NOTES |
| al signed ind | | 1 | 3/94 | APPR. | DRAWING RENAMED |
| SA ENGWEER MANAGER | | REV. | DATE | APPR. | DESCRIPTION |
| EOGRAD LIBUSTOM | City of Palo Alto | MAP# | CKT# | SCALE | S.O.# / DRAWING# |
| DRWN 4 TOMPPI | California | xx | хх | NTS | SR-XF-E-1020 |
| CHKD. **ZUCCARO | UTILITIES, ELECTRIC ENGINEERING | | ξ | 1410 | SHEET 7 OF 8 |



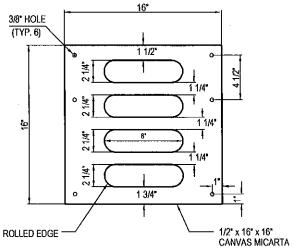
DETAIL 1: SECONDARY CABLE CONNECTION

MATERIALS

COMPRESSION CONNECTORS: BURNDY YA38L2NNTFX (OR EQUIVALENT) CONNECTOR FOR 535.3 KCMIL CABLE WITH DIE (BURNDY L99) RECOMMENDED BY TOOL MANUFACTURER.

BELLEVILLE SPRING WASHERS: T&B STAINLESS STEEL, 1/2"; #50050BW

CANVAS MICARTA BOARD: RIDOUT PLASTICS, WWW.RIDOUTPLASTICS.COM, 858.560.1551, ANGUS-CAMPBELL, INC. 323.587.1236, OR PORT PLASTICS, 408.571.2231



| BUSWAY CONNECTION FOR TRANSFORMER SECONDARY | | | | 6/13 | TING | REVISED MATERIAL NOTE |
|---|--------------------|--|------|-------|--------|--|
| | | | | 12/08 | TING | REVISED BOARD |
| λ | | | 3 | 02/06 | BUJTOR | CONVERTED TO A'CAD, REVI'SD. NOTES & ADDED DWG. NO. |
| APPROVED | TRANSITION CABINET | | 2 | 06/99 | FINCH | REVISED NOTES |
| AM BUN OR NO | | | 1 | 3/94 | APPR. | DRAWING RENAMED |
| SA ENGWEES MANAGER | | | REV. | DATE | APPR. | DESCRIPTION |
| EOGR & LEWTON | | City of Palo Alto | MAP# | CKT# | SCALE | S.O.# / DRAWING # |
| DRWN TARPPI | | City of Palo Alto California UTILITIES, ELECTRIC ENGINEERING | хх | xx | NTS | SR-XF-E-1020 |
| CHKD. NS.ZUCCARO | | | | | | SHEET 8 OF 8 |