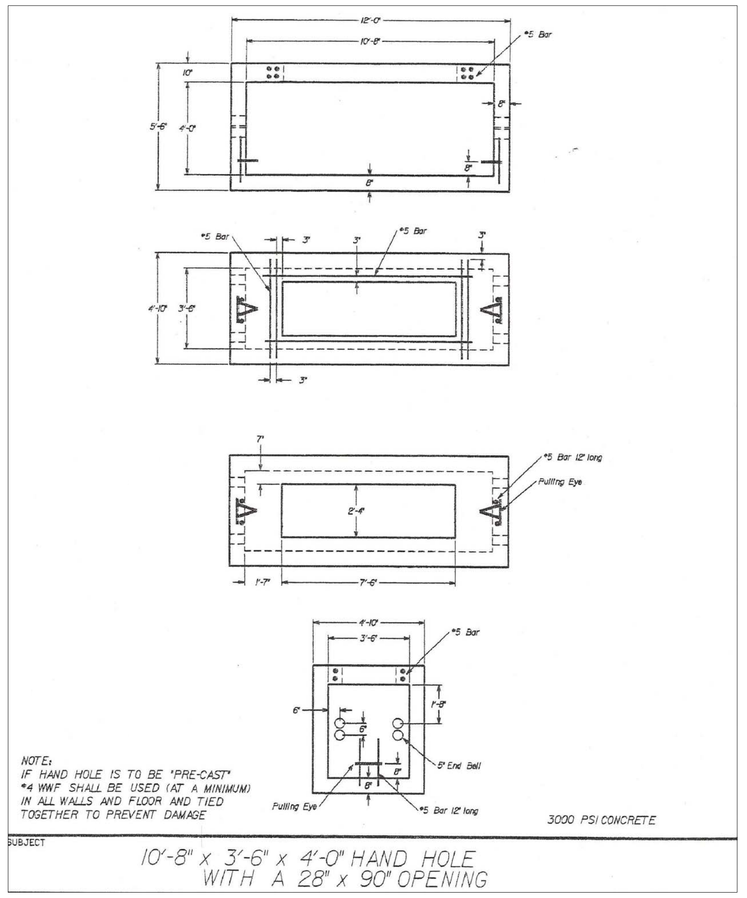



1 ELECTRICAL – HAND HOLE DETAIL
SCALE: NONE

GENERAL

1. Fiberglass Box Pad (08-4900) shall be used for the S&C Power-Operated Transfer Switch (13-6190) except where, for engineering reasons, a concrete pad is required (i.e. conduit system).

CONCRETE PAD CONSTRUCTION

2. A detailed drawing of the pad installation is shown in Figure 1. Copies of the pad construction drawing DU-11-C-11142-2 are available from the Distribution Engineering and Equipment Standards Group.

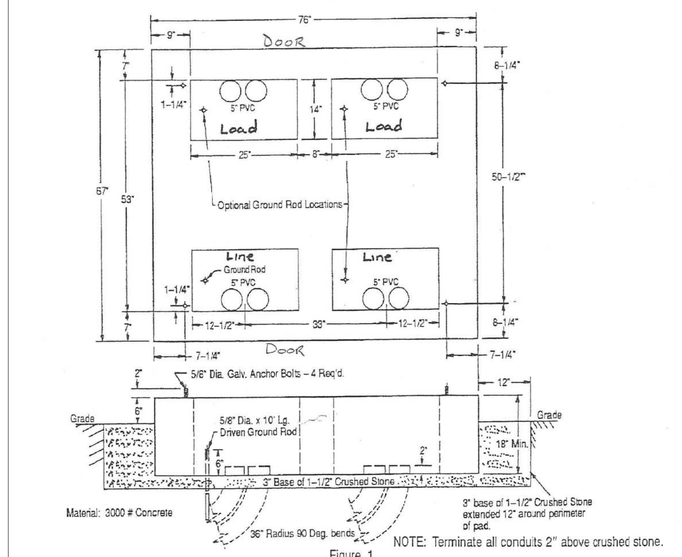



Figure 1
Concrete Pad for S&C Transfer Switch

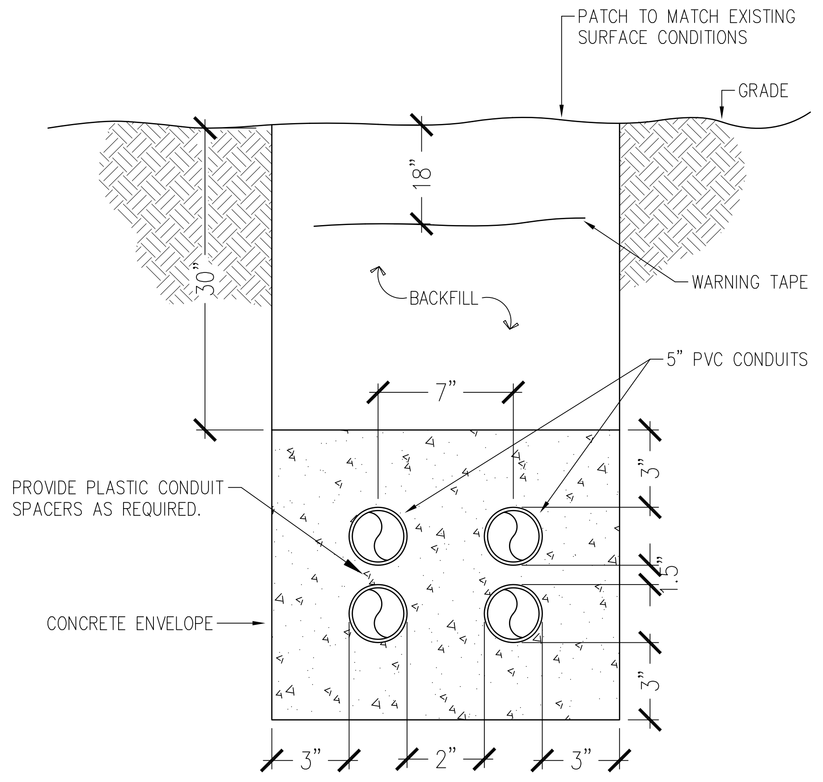
SWITCH INSTALLATION

3. The maximum conductor size that shall be used on the line side of the switch is 500-kCMIL and the maximum conductor size that shall be used on the load side of the switch is 2/0.
4. Plug all unused conduit entrances and seal all openings in concrete to prevent animal entry.
5. Install ground rods (07-6653) in the switch compartments and fuse compartments. See Figure 1.
6. Install the switch on the concrete pad and secure the enclosure to the pad using the anchor clips provided. See Q-250, Installation Instructions.
7. Follow the Installation Instructions of Q-250 for making up the switch connection.

REFERENCE:

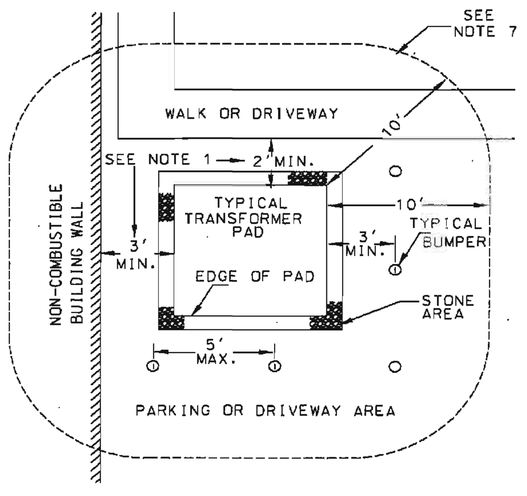
S&C Three-Phase 13-kV Main Line Sectionalizing Switch with Fused Taps ..... Q-250

2 ELECTRICAL – PRIMARY ENCLOSURE PAD DETAIL
SCALE: NONE

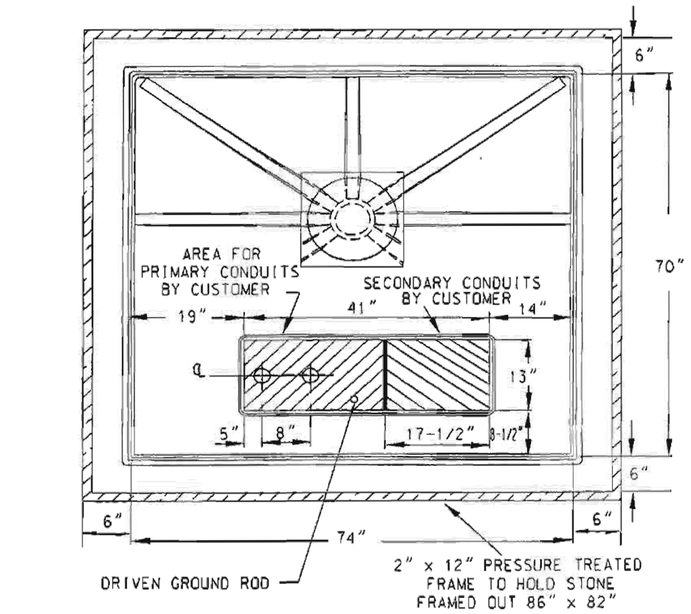



3 ELECTRICAL – CONDUIT DUCT BANK DETAIL
SCALE: NONE

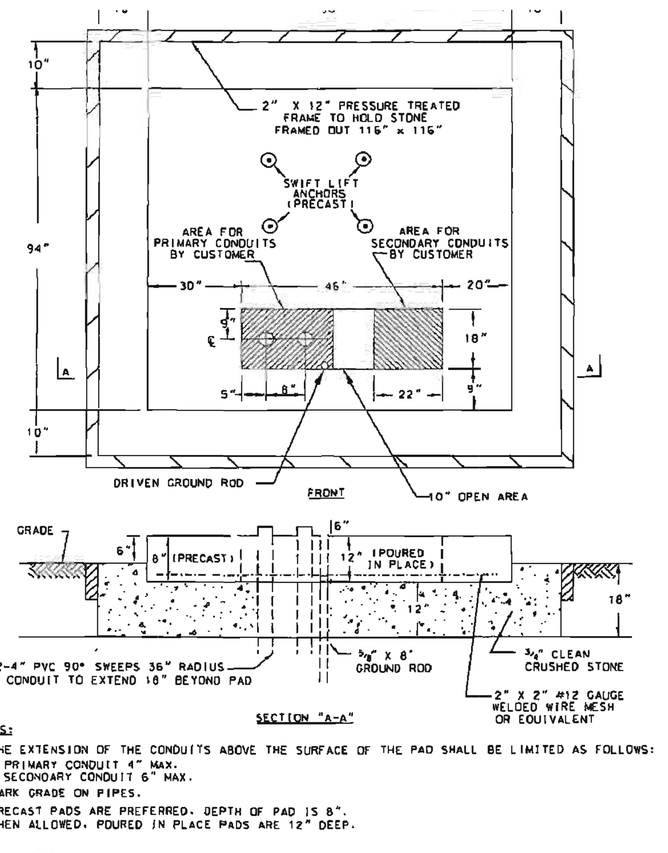
THREE-PHASE PADMOUNTED TRANSFORMERS




4 THREE PHASE PAD MOUNTED TRANSFORMER DETAIL
SCALE: NONE




5 FIBERGLASS 500KVA AND BELOW TRANSFORMER PAD DETAIL
SCALE: NONE




NOTES:

1. THE EXTENSION OF THE CONDUITS ABOVE THE SURFACE OF THE PAD SHALL BE LIMITED AS FOLLOWS:
   PRIMARY CONDUIT 4" MAX.
   SECONDARY CONDUIT 6" MAX.
2. MARK GRADE ON PIPES.
3. PRECAST PADS ARE PREFERRED. DEPTH OF PAD IS 8".
   WHEN ALLOWED, POURED IN PLACE PADS ARE 12" DEEP.

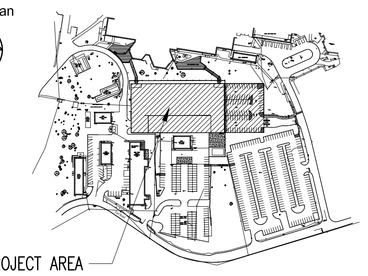
6 TYPE III-A CONCRETE TRANSFORMER PAD DETAIL
SCALE: NONE

1

Revisions

| Date | Issue | Description |
|---|---|---|
| 08-23-2012 | 1 | REVISED PER UTILITY COMPANY STANDARDS |

Key Plan




Consultants

WALKER
PARKING CONSULTANTS

Consultants

TMG Engineering Inc.
Consulting Mechanical and Electrical Engineers
1090 King Georges Post Rd.
Suite No. 903
Edison, New Jersey 08837
Phone: 732-738-9670
Fax: 732-738-9672
New Jersey Certificate of Authorization
Number 24GA28081900

FRANK S. RADOSIN N.J.P.E. 33923

TMG JOB NUMBER 11-158

Project

New Parking Garage
at
William Paterson University
East Road Parking Lot 1
Wayne, New Jersey 07470
Project # WP-10-03-99A

Site Preparation

Client

William Paterson University
Office of Capital Planning,
Design & Construction
358 Hamburg Turnpike
College Hall
Wayne, New Jersey 07474

SNS Architects & Engineers, PC
1 PARAGON DRIVE . MONTVALE . NEW JERSEY. 07645
TEL: 201.573.1767 FAX: 201.573.0808 www.sns-arch-eng.com

Fay W. Logan, AIA
John M. Lignos, AIA
Lorin J. Sonenshine, AIA
Steven Napolitano, PE, PP, LEED AP

Cert./Lic. No.

| Date | | Scale | AS NOTED |
|---|---|---|---|
| Drawn By | Ken S. | Checked By | P.B. |

Dwg. Title
ELECTRICAL - DETAILS - NEW UTILITY WORK

Work Order No. 4242
Dwg. No. EU-2

C:\2011\William Paterson University\11-158 - WPU - Parking Garage\11158Section Site Utilities E-1.dwg Revised By: kradosin Jul 02, 2012 - 11:56 AM