



NUMERICAL INDEX OF UNDERGROUND STRUCTURES AND RELATED DRAWINGS

UGS

GENERAL INFORMATION
 FRAMES AND COVERS
 DUCTS AND CONDUITS
 ACCESSORIES
 MISCELLANEOUS STRUCTURES AND DETAILS
 PULL BOXES
 MANHOLES
 VAULTS
 PADMOUNT STRUCTURES
 RESIDENTIAL SUBSURFACE TRANSFORMER ENCLOSURES
 COMMERCIAL SUBSURFACE TRANSFORMER ENCLOSURES
 STREET LIGHTING

<u>Heading</u>	<u>Title</u>	<u>UGS Number</u>	<u>Date</u>
GENERAL INFORMATION			
Index (4 pages)		001	10-15-07
U.G. Structures Description and Identifying Codes (2 pages)		002	12-29-03
General Specification		003	12-29-03
Specification for Joint Construction		004	12-31-03
Vault and Manhole Requirements (Precast)		005	03-21-88
Pull Box Requirements		007	09-18-03
Duct Bank and Duct Terminal Requirements		008	04-01-68
Electrical Service Box Requirements		009	05-03-06
Slab-Box Requirements		010	12-11-06
Air Switchgear Fiberglass Box Pad (for Series 9, 10 & 11 Switches)		011	06-30-04
SF6 Switchgear Fiberglass Box Pad (for series 45, 11F, 52F, 53F, & 64F)		012	06-30-04
Steel Shape Dimensioning		014	04-01-68
Gen. Spec. for Concrete and Reinforced Concrete (6 pages)		015	09-19-07
Gen. Spec. for Precast Reinforced Concrete Vaults and Manholes (6 pages)		016	02-01-67
Pull Rope, General Specifications for Pull Rope		020	02-01-67
FRAMES AND COVERS			
Structure Identification (Electric)		050	02-22-02
Structure Identification (Communication)		051	10-12-99
Vault Cover with Necking and Grade Ring (Precast)		053	01-01-76
48" Square Precast Concrete Vault Cover (Traffic Type)		053.1	02-01-67
48"x60" Precast Concrete Vault Cover (Traffic Type)		053.2	07-01-68
5'x 8' Precast Concrete Vault Cover (Two Piece) Traffic		053.3	02-01-67
Manhole Cover With Cone and Grade Ring (Precast)		062	01-01-76
Concrete Filled Manhole Cover - Parkway		062.1	02-01-67
24"X 36" Steel Pull Box Cover - Traffic		075	12-11-06
24"x 36" Steel Pull Box Cover - Parkway		076	12-11-06
24"x 36" Concrete Pull Box Cover - Parkway		077	12-11-06
30"x 48" Steel Pull Box Cover - Traffic		081	12-11-06
30"!x 48" Steel Pull Box Cover - Parkway		082	12-11-06
30"x 48" Concrete Pull Box Cover (2 Piece) - Parkway		083	12-11-06
5'6"x 8'0" Vault Cover - Traffic		091	02-01-67

Revision

DATE: 11/01/07

Update

REVISION:

DATE: 11/1/07

DATE:

APPROVAL: *Dave Bedding*



NUMERICAL INDEX OF UNDERGROUND STRUCTURES AND RELATED DRAWINGS

UGS

Revision

DATE: 11/01/07

Update

REVISION:

DATE: 11/01/07

APPROVAL: *Dave Bedding*

<u>Heading</u>	<u>Title</u>	<u>UGS Number</u>	<u>Date</u>
DUCTS AND CONDUITS			
	Conduit and Fittings	100	11-01-07
	General Specifications for Conduit Installation (6 pages)	100.1	07-02-07
	Instructions for Solvent Welding and Installation of Semi-Rigid Plastic Conduit and Fittings	100.2	11-17-03
	Shoring Requirements (2 pages)	101	10-15-75
	Standard Duct Entrance Details	110	02-01-67
	Corner Duct Entrance - Manhole or Vault.	110.1	02-01-67
	Standard and Special Duct Entrances	110.2	02-01-67
	Duct Entrances to Pull Boxes	110.4	04-01-68
	Duct Bank Entrance to Power Cable Trench Where Extension Is Planned	110.5	02-01-67
	Capping Main Line Conduit	112	07-16-73
	Service Lateral Terminations	113	02-01-67
	Pole Riser Conduit Installation	115	06-25-07
	Pole Riser Conduit Installation with Standoff Brackets	115.1	03-08-02
	Riser Bend Installation at Pad or Wall	116	01-01-76
	Underground Risers in Substations (2 pages)	117	02-01-67
	Typical Installation of Traffic Type Pull Box in Main Line Ducts	120	02-01-67
	Duct Bank Requirements / installation in a bore	125	07-02-07
	Conduit Spacers	125.1	07-10-07
	C.I.C. Installation Requirements	125.2	08-21-72
	Duct Sump for Duct Bank	126	02-01-67
	Duct Beam Reinforcement	127	02-01-67
	Standard Duct Bank for Subsidence Areas	129	04-01-68
	Support for Conduits on Bridges (4 pages)	135	02-01-67
	Plastic Conduit "Y" Fittings	139	01-01-76
	Expansion Joint for Plastic Conduit	141	01-01-76
	Conduit Plug and Riser Cap	142	10-15-73
ACCESSORIES			
	Duct Mandrel (2 pages)	160	02-01-67
	Insert (Standard Installation)	202	02-01-67
	Pull Eye	203	04-01-68
	Insert Opposite Duct Bank	205	02-01-67
	Vault Rack Supports Over Deep Recesses	205.1	02-01-67
	Insert Installation Detail and Schedule For Vaults	206	02-01-67
	Insert Schedule for Pull Boxes	208	02-01-67
	Sump Requirements	215	11-01-68
	Ground Rods - Ground Wires	225	10-16-07
	Grounding of Metallic Risers	226	02-01-67
	Flush Vents	230	02-01-67
	Standpipe Vents	231	09-10-07
	Standpipe Vents (Polyethylene)	231.1	09-10-07
	Standpipe Vents - 18 inch Steel	231.2	09-10-07
	Standpipe Vents with Meter Pipe	232	02-01-67
	Standpipe Vent Installation	233	09-10-07
	Standpipe Vent Placement	233.1	09-10-07
	Wall Stand Vent Detail and Installation	234	02-01-67
	Flush Vent (Vitrified Clay Vent Pipe)	235.1	02-01-67



NUMERICAL INDEX OF UNDERGROUND STRUCTURES AND RELATED DRAWINGS

UGS

Revision

DATE: 11/01/07

REVISION: Update

APPROVAL: *Dave Bedding* DATE: 11/01/07

<u>Heading</u>	<u>Title</u>	<u>UGS Number</u>	<u>Date</u>
ACCESSORIES (continued)			
	Flush Vent with Trash Pit (Vitrified Clay Pipe)	239	02-01-67
	Ladder for Vaults and Manholes	240	02-01-67
	Ladder Installation for Vaults	240.1	02-01-67
	Ladder Installation for Manholes	240.2	02-01-67
	Manhole Neck Details	250	04-01-68
	Vault Neck Details	250.1	04-01-68
MISCELLANEOUS STRUCTURES AND DETAILS			
	Joining Old and New Structures	251	02-01-67
	Cold Joints	252	02-01-67
	Slab Cover - Pouring and Framing	260	02-01-67
	5' 6" x 8' 0" 2 Piece Slab Cover with 27" Manhole Casting - Method of Installation in Existing Vault	261	02-01-67
	48" X 48" Traffic Cover-Vault (Installation Detail)	265	04-01-68
	Get-Away Trench - Non Traffic Type (2 pages)	280	02-01-67
	Protective Barrier for Underground Distribution Structures	290	08-16-05
	Protective Wall	291	08-16-05
	Clearance Requirements for Pad Mount Equipment (4 pages)	295	08-16-05
PULL BOXES			
	Poured Concrete Pull Boxes (2 pages)	300	02-01-67
	Precast Pull Box-2'x3'	301	07-15-74
	Precast Pull Box-2'-6"x4'	302	07-15-74
	Precast Pull Box 2' 6" x 4' (with Large Recesses)	303	07-15-74
	Precast Pull Box 3'x 5'	304	07-15-74
	Precast Pull Box Installation	310	12-08-03
	Precast Bottomless Pull Box Installation	310.1	03-02-05
	Secondary Pull Box for Street Lighting	311	08-01-70
	Electrical Service Box - Concrete -Installation	320	05-22-07
	Electrical Service Box - Plastic -Installation	320.1	09-19-07
	Electrical Service Box Installation (Floored)	321	01-01-76
MANHOLES			
	Manholes Installation	435	08-15-69
VAULTS			
	Vaults and Manholes (Precast)	540.1	10-15-73
	Vault Installation	541	09-01-68



NUMERICAL INDEX OF UNDERGROUND STRUCTURES AND RELATED DRAWINGS

UGS

<u>Heading</u>	<u>Title</u>	<u>UGS Number</u>	<u>Date</u>
PADMOUNT STRUCTURES			
	Precast Transformer Pad	620	01-04-02
	Transformer Pad Installation	621	04-20-06
	Transformer Pad Installation for Duct or Duct and C.I.C. Construction	621.1	07-01-80
	Transformer Pad (Field Constructed)	622	05-04-06
	Transformer Pad (Field Constructed 7' X 7' "PC" for 1500-2500 kV A 3-Phase Padmount Transformers)	623	05-04-06
	Padmount Switch Pad (Field Constructed for Series 9, 10, 11 Switches) (2 Pages)	650	07-11-99
	Padmount Switch Pad (Field Constructed 4' X 6' "PC" for Series 5 Switches) (2 Pages)	651	03-01-96
	Switchgear Fiberglass Box Pad For Series 9, 10, & 11 Switches	660	09-19-07
	Switchgear Fiberglass Box Pad For Series 52F, 53F, AND 64F Switches (2 pages)	661	09-19-07
	Slab Box For Three Phase Transformers SB-4	720	12-11-06
	Slab Box For Three Phase Transformers SB-2, SB-3	721	12-11-06
	Padmounted Switch Vault	721.1	12-30-82
	Slab Box Installation (8' x 10')	723	05-27-04
	Padmounted Switch Vault Installation	724	12-30-82
	Pedestal Junction Cabinet	730	02-28-03
	Pedestal Junction Cabinet- One Piece Fiberglass Installation (2 pages)	730.1	04-04-06
	Steel Pedestal Junction Cabinet Installation (2 pages)	730.2	09-19-07
RESIDENTIAL SUBSURFACE TRANSFORMER ENCLOSURES			
	Buried Transformer Enclosure - Baffle (3 Pages)	733	04-01-68
	Precast Buried Transformer Enclosure (2 Pages)	734	03-12-07
	Buried Transformer Enclosure - Plastic (2 Pages)	734.1	08-11-98
	Buried Transformer Enclosure - Parkway'	735	01-06-06
	Buried Transformer Enclosure - Parkway (Plastic)	735.1	01-06-06
	Buried Transformer Enclosure - Traffic	736	01-06-06
COMMERCIAL SUBSURFACE TRANSFORMER ENCLOSURES			
	Commercial Subsurface Transformer Enclosure (4'x7'x7'I.D.)-Parkway	750	10-28-99
	Commercial Subsurface Transformer Enclosure Installation	751	02-03-99
	Commercial Subsurface Transformer Enclosure (5' X 8'-6" X 7") Requirements	760	09-07-99
	Commercial Subsurface Transformer Enclosure Spring Assist 5'x 8'6"x 7'	760.1	03-12-04
	Commercial Subsurface Transformer Enclosure (CST) Installation	761	09-12-00
STREET LIGHTING			
	Street Light Requirements (2 Pages)	800	11-01-07
	Raincross Concrete Street Light Standards (3 Pages)	800.RC	08-10-95
	Concrete Street Light Standard Details	801	11-01-07
	Metal Street Light Standard Details	802	08-24-04

Revision

DATE: 11/01/07

REVISION: Update

APPROVAL: *Dave Redding* DATE: 11/01/07