

# 1438

## PADS, CLEARANCES & BARRIERS

### CONTAINS

**1438-08 CLEARANCES FOR URD PADS**

**1438-10 BARRIER POSTS & COMMERCIAL CLEARANCES**

**1438-12 SWITCHGEAR PAD DETAIL: 3PH PME-9**

**1438-14 SWITCHGEAR PAD DETAIL: 3PH PME-10**

**1438-16 SWITCHGEAR PAD DETAIL: 3PH PME-11**

**1438-17 SWITCHGEAR PAD DETAIL: 3PH PME-12**

**1438-22 SECTIONALIZING CAB. PAD: 1, 2, & 3 CIRCUITS**

**1438-24 SECTIONALIZING CAB. PAD: LOADBREAK**

**1438-28 NOTES FOR VISTA PAD DETAILS**

**1438-31 SWGR PAD DETAIL: VISTA 3 WAY 600A AND 900A**

**1438-36 SWGR PAD DETAIL: VISTA 4 WAY 600A AND 900A**

**1438-41 SWGR PAD DETAIL: VISTA 6 WAY 600A AND 900A**

**1438-43 NOTES FOR PME ATO SWITCHGEAR PAD**

**1438-44 SWGR PAD DETAIL: PME ATO**

**1438-46 NOTES FOR DBL TANK ATO SWITCHGEAR PAD**

**1438-47 SWGR PAD DETAIL: DOUBLE TANK ATO**

**1438-48 TEMP XFMR PAD DETAIL: PREFORMED (25-167k VA)**

**1438-55 NOTES FOR 1PH & 3PH XFMR PADS**

**1438-60 1PH XFMR PAD DETAIL: 5FT X 5FT (25-250kVA)**

**1438-90 3PH XFMR PAD DETAIL: 10FT X 10FT (75-2500kVA)**

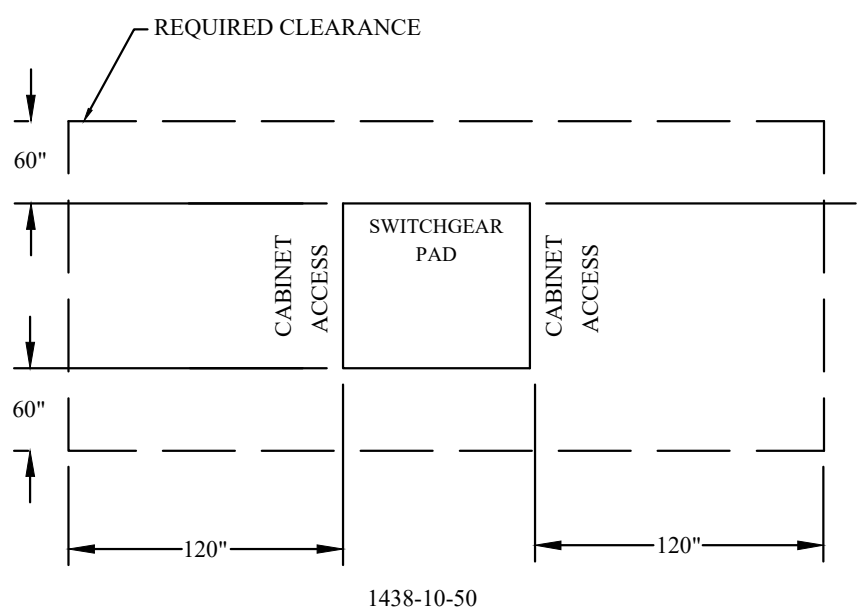
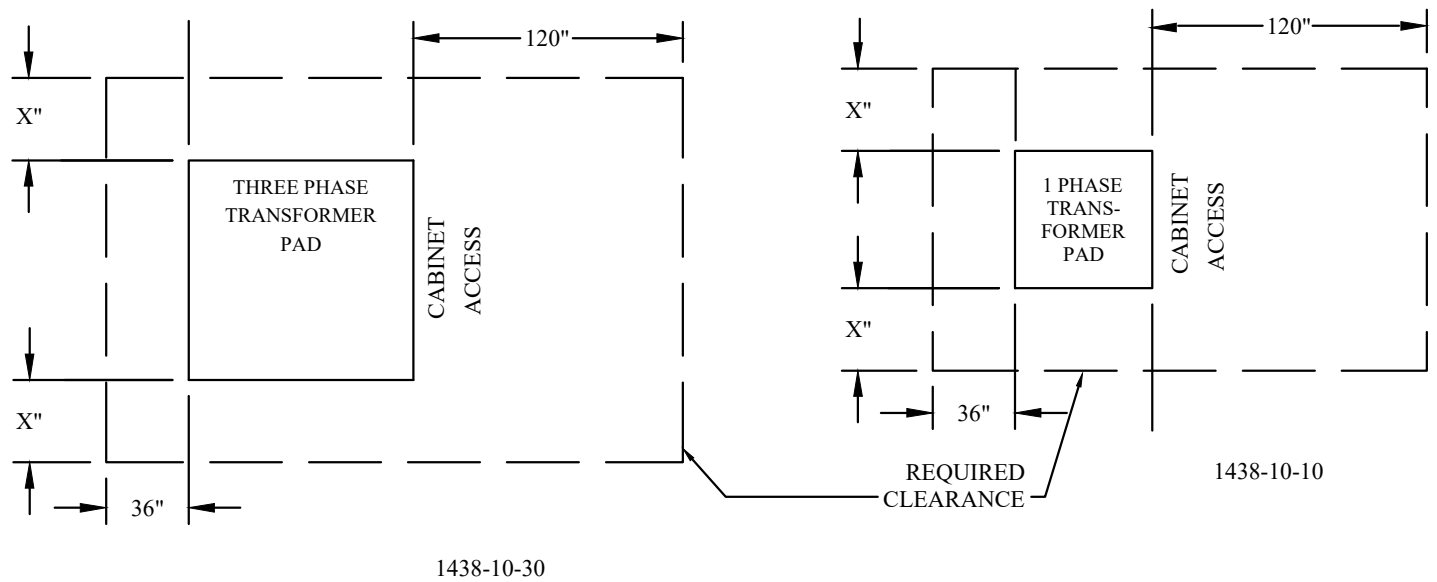
**1438-95 15 INCH PAD FOR URD METER PEDESTAL**

**1438-96 METER PAD AND PEDESTAL ASSEMBLY**

**1438-97 PEDESTAL ASSEMBLIES POSITIONING**

REV\_DATE:  
04/01/26

NOTE: ALL CLEARANCE MEASUREMENTS SHOWN BELOW ARE SUBJECT TO THE PARAMETERS FOR CLEARANCES ON PADS, SEE PAGE 1438-08A.



CLEARANCE MEASUREMENTS SHOWN ABOVE ARE STANDARD CLEARANCES FOR URD CABLE.

PER CITY ORDINANCE, THERE SHALL BE NO TREES, SHRUBBERY, FENCES ETC., WITHIN THE CLEARANCE AREA.

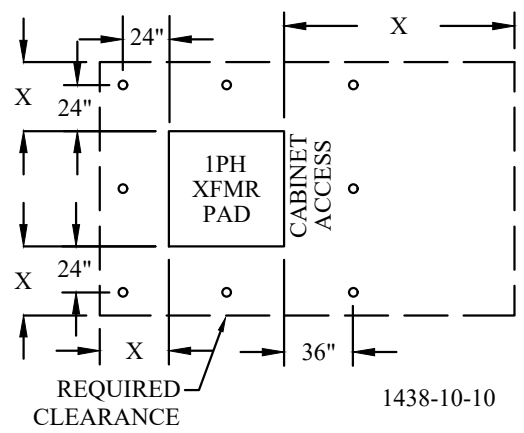
CONTACT AE DESIGN FOR ANY QUESTIONS REGARDING THE CLEARANCES.

Minimum clearances required for all pad-mount transformer pads (and other padmounted electrical equipment) applicable only to brick or masonry structures with minimum 2-hour fire rating except as noted.

1. Hot-Stick use area - 10 ft-open area or clearance to adjacent building or structure.
2. Sides without operators or controls - 3 ft-open area from any removable ventilated obstruction (fence).
3. Sides with operators or controls - 5 ft-open area from any removable ventilated obstruction (fence).
4. All sides - 20 ft-clearance from edge of oil-filled equipment pad to fire escape.
5. Any side when pad is adjacent to brick or masonry building or structure - 5 ft-minimum horizontal clearance from side edges of equipment pad to building or structure.
6. Any side when pad is adjacent to brick or masonry building or structure - 5 ft-minimum lateral clearance from edge of pad for windows, doors, and ventilating ducts.
7. Any side when pad is adjacent to non brick or masonry building or structure -12 ft. horizontal clearance from edge of oil filled equipment pad to non brick or masonry building or fixed structure.
8. Any side when pad is adjacent to windows, doors, or ventilating ducts -12 ft-vertical clearance from grade for windows, doors, and ventilating ducts when lateral clearance is less than 5 ft from oil filled equipment pad.
9. Any side when pad is adjacent to windows, doors, or ventilating ducts -12 ft-horizontal clearance from edge of oil filled equipment pad to building or fixed structure, if a window, door, or ventilating duct is less than 12 ft from grade or less than 5 ft of lateral separation.
10. Vertical clearance above the pad and the total minimum clearance area surrounding the pad - NO COVERING, BUILDING, OR STRUCTURE OF ANY KIND IS ALLOWED DIRECTLY ABOVE THE PAD OR THE MINIMUM EQUIPMENT AREA ASSOCIATED WITH THE PAD (EXCEPTION: NICHE).

Contact AE Design for any questions regarding the above.

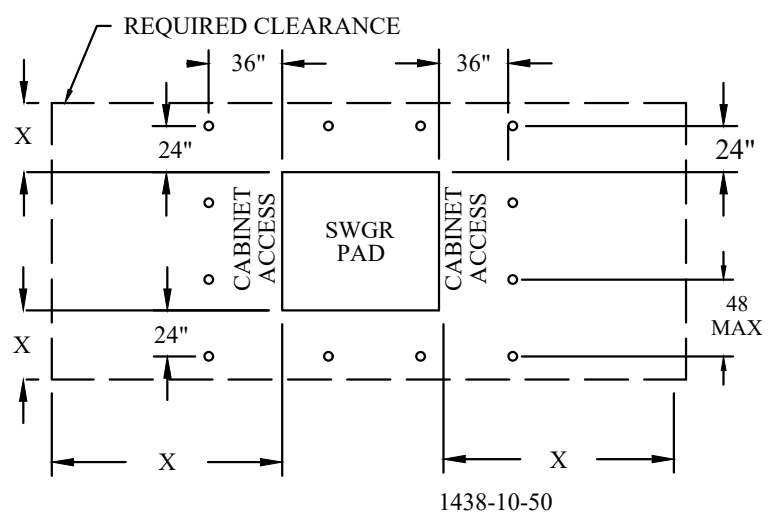
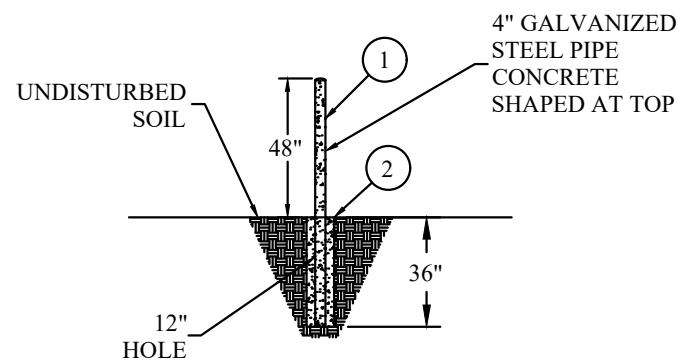
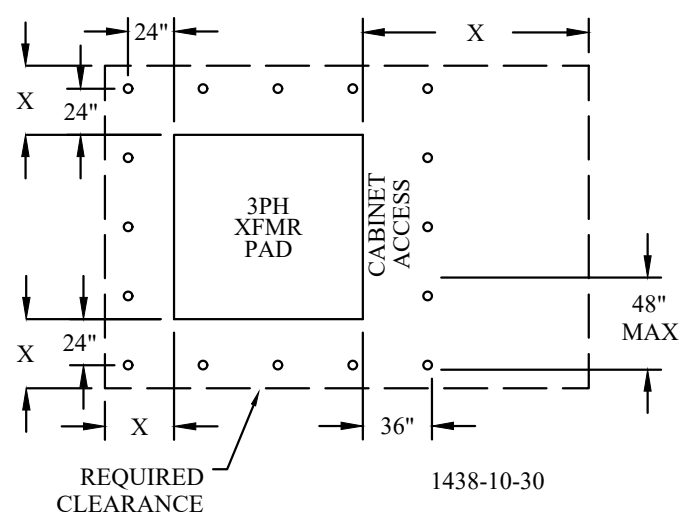
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INSTALL BARRIER POSTS WHENEVER PAD MOUNTED EQUIPMENT IS INSTALLED WITHIN 4 FT OF A TRAFFIC AREA. DISTANCE BETWEEN POSTS SHOULD NOT EXCEED 4 FT. WALLS MAY NOT REPLACE BARRIER POSTS.

A 12 FT WIDE ACCESS DRIVE IS REQUIRED FOR MOST TRANSFORMER AND SWITCHGEAR INSTALLATIONS.

EQUIPMENT PADS MUST BE PLACED OUTSIDE OF ANY HAZARDOUS LOCATIONS WHERE GASOLINE OR OTHER FLAMMABLE LIQUIDS ARE STORED AS DEFINED IN ARTICLE 514 OF THE NATIONAL ELECTRIC CODE.

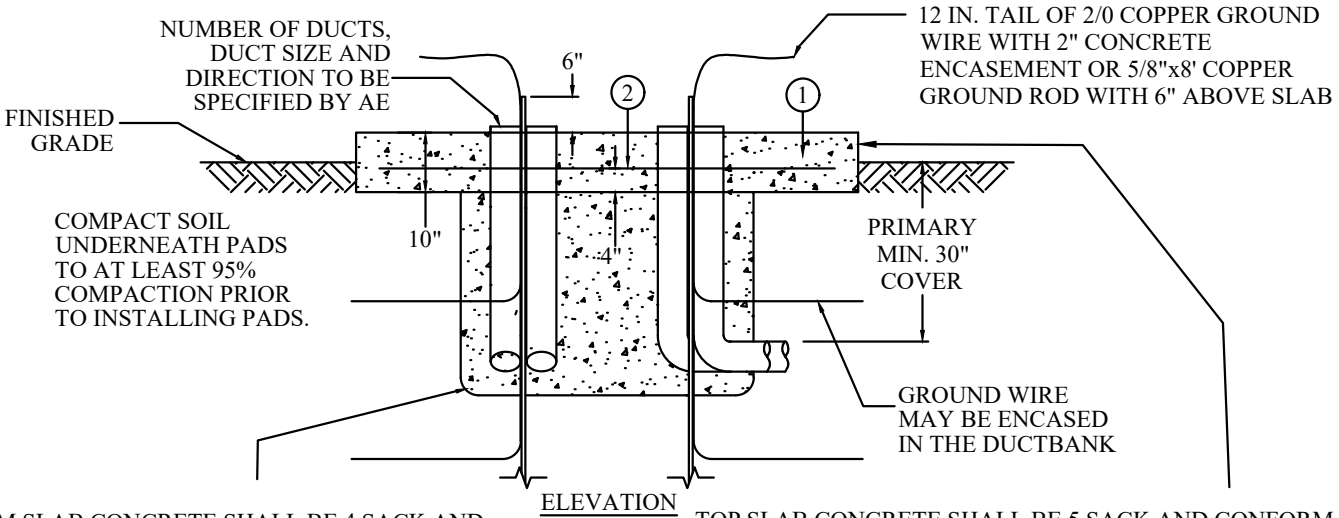
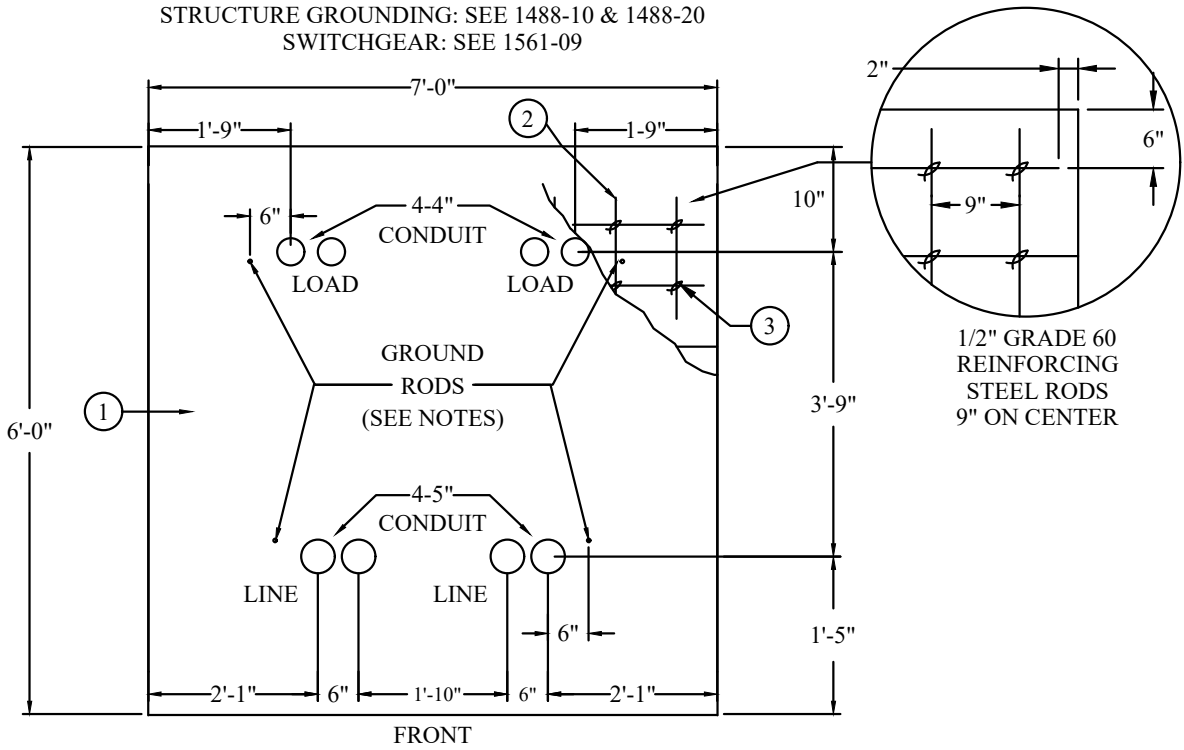


CU-REF	CU-ID	CU-DESCRIPTION
14381010	BARRIERPOST1PHPAD	BARRIER POSTS FOR 1 PH PAD
14381030	BARRIERPOST3PHPAD	BARRIER POSTS FOR 3PH PAD
14381050	BARRIERPOSTSWG	BARRIER POSTS FOR SWGR

REV\_DATE:  
04/01/26

DETAILS  
BARRIER POSTS & CLEARANCE: SEE 1438-10  
STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
SWITCHGEAR: SEE 1561-09

PLAN VIEW  
1438-12-67



BOTTOM SLAB CONCRETE SHALL BE 4 SACK AND CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 LBS. AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 3/8 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.

TOP SLAB CONCRETE SHALL BE 5 SACK AND CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS. AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1-1/2 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.

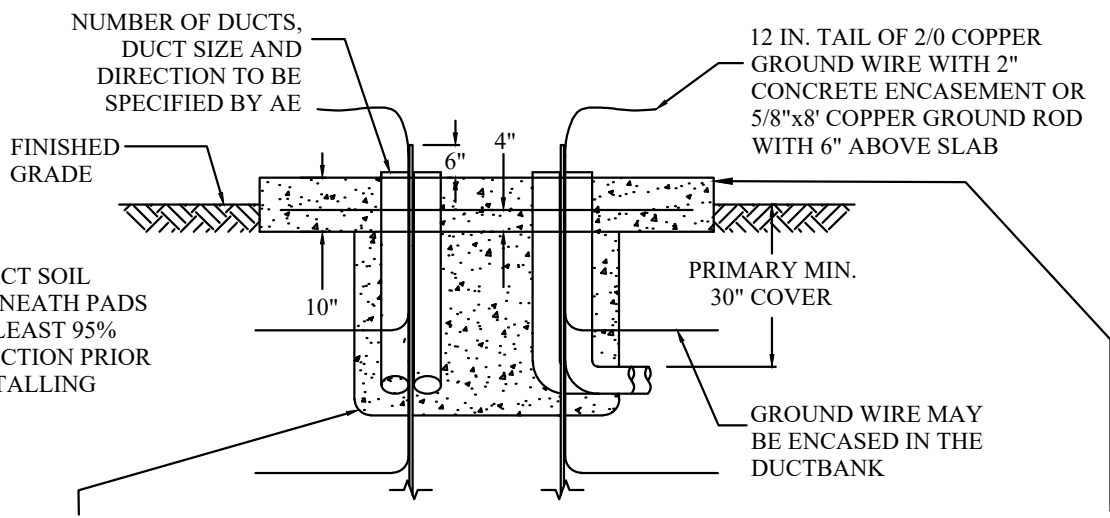
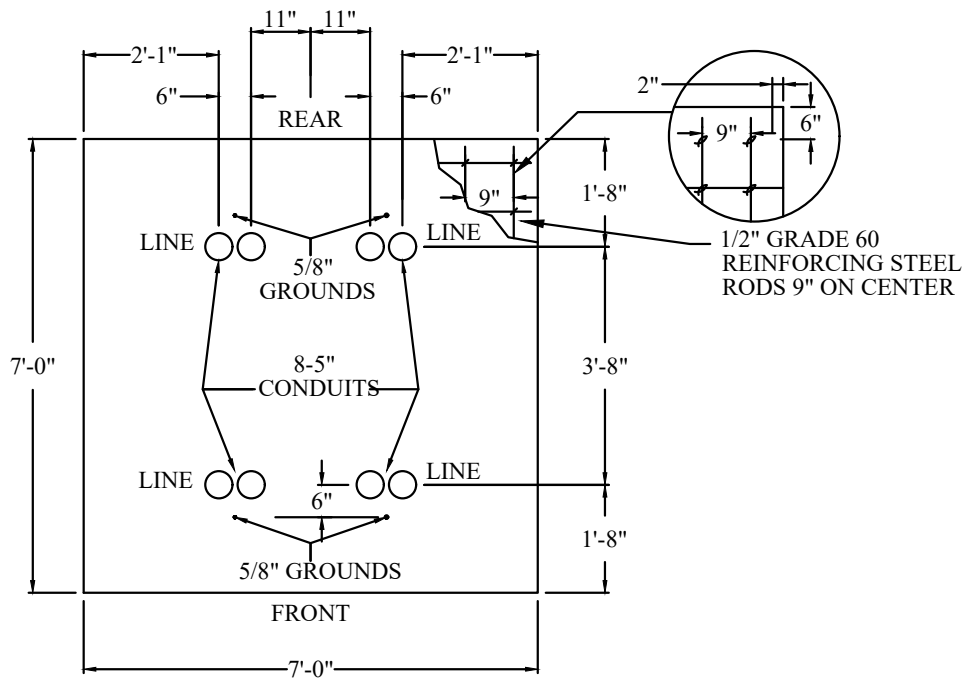
- NOTES**
- 35' OF 2/0 STRANDED BARE SOFT-DRAWN, TINNED COPPER GROUND WITH 2" CONCRETE ENCASEMENT OR 5/8"x8'-0" CU. COPPERWELD GROUND ROD. (SEE GROUNDING DETAIL 1488-10 AND 1488-20).
  - STEEL BARRIER POSTS WILL BE REQUIRED WHENEVER SWITCHGEAR PAD IS INSTALLED WITHIN 4' OF A TRAFFIC AREA. (SEE BARRIER POST DETAIL DRAWING FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.)
  - 90 DEG. (24" RADIUS (MIN.)) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
  - CONCRETE SHALL BE 5 SACK, CLASS A, 3/4 IN. TO 1-1/2 IN. AGGREGATE.
  - BELL ENDS SHALL BE 1" ABOVE SLAB.

CU-REF	CU-ID	CU-DESCRIPTION
14381267E	SWTGRPD3PHPME9DFE	SWGR PAD 3PHASE PME- 9 DEAD FRONT EAST
14381267W	SWTGRPD3PHPME9DFW	SWGR PAD 3PHASE PME- 9 DEAD FRONT WEST

REV\_DATE:  
04/01/26

DETAILS  
BARRIER POSTS & CLEARANCE: SEE 1438-10  
STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
SWITCHGEAR: SEE 1561-10

PLAN VIEW  
1438-14-09



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ELEVATION

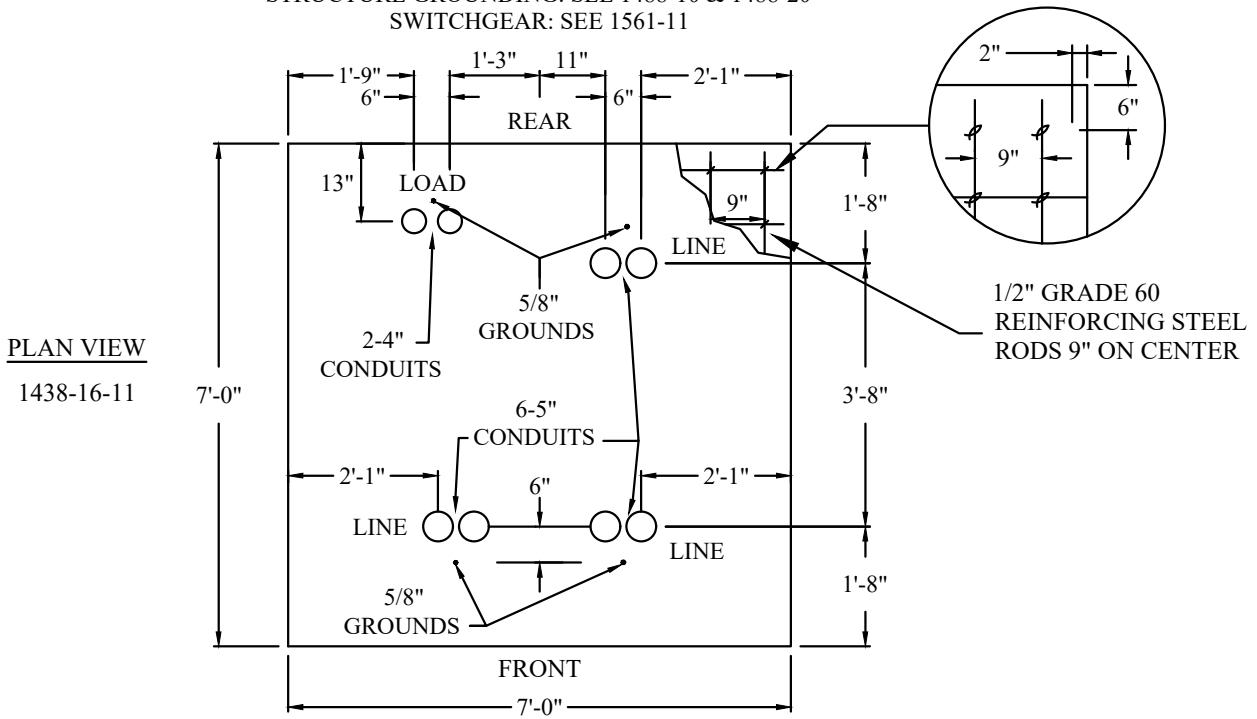
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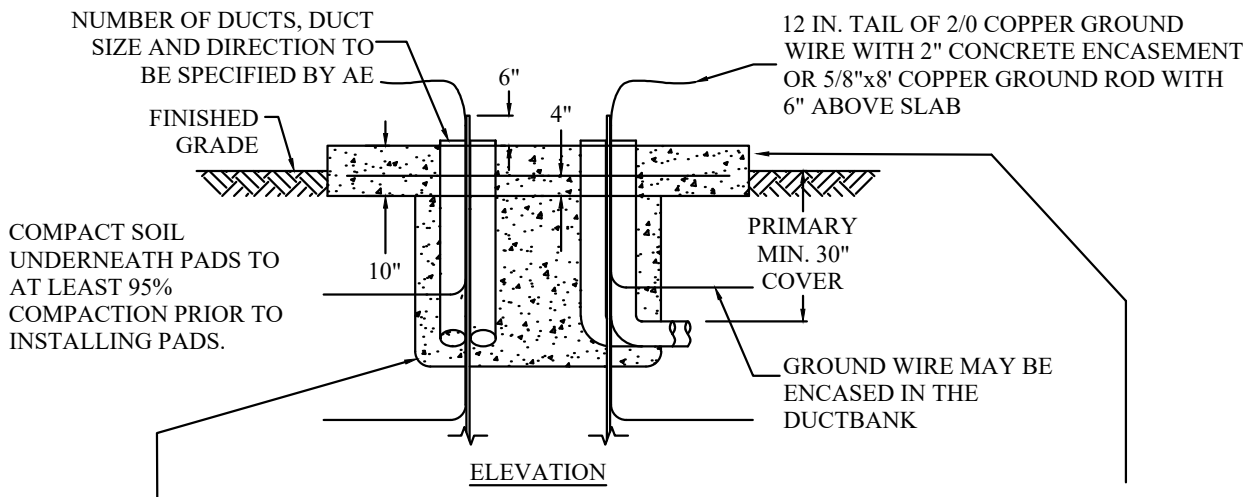
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- BELL ENDS SHALL BE 1" ABOVE SLAB.

CU-REF	CU-ID	CU-DESCRIPTION
14381409E	SWGTRPD3PHPME10DFE	SWGR PAD 3 PHASE PME- 10 DEAD FRONT EAST
14381409W	SWGTRPD3PHPME10DFW	SWGR PAD 3 PHASE PME- 10 DEAD FRONT WEST

DETAILS  
BARRIER POSTS & CLEARANCE: SEE 1438-10  
STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
SWITCHGEAR: SEE 1561-11



PLAN VIEW  
1438-16-11



ELEVATION

BOTTOM SLAB CONCRETE SHALL BE 4 SACK AND CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 LBS. AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 3/8 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.

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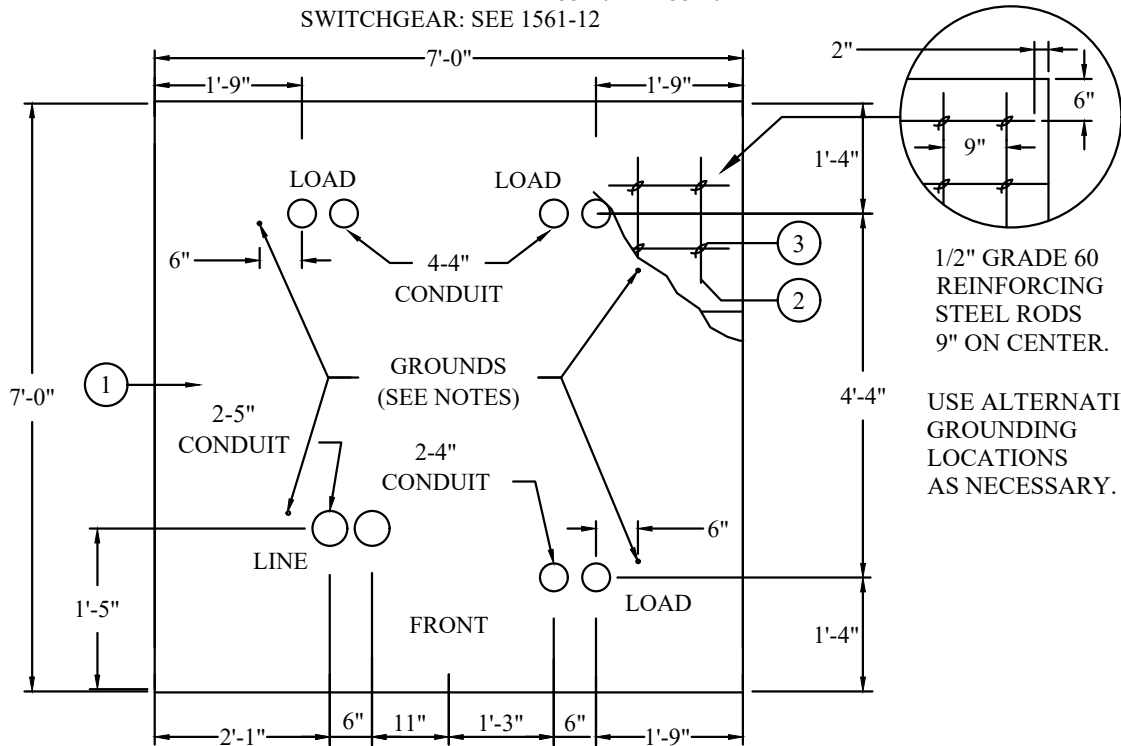
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5. BELL ENDS SHALL BE 1" ABOVE SLAB.

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14381611E	SWTGRPD3PHPME11DFE	SWGR PAD 3 PHASE PME- 11 DEAD FRONT EAST
14381611W	SWTGRPD3PHPME11DFW	SWGR PAD 3 PHASE PME- 11 DEAD FRONT WEST

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 SWITCHGEAR: SEE 1561-12

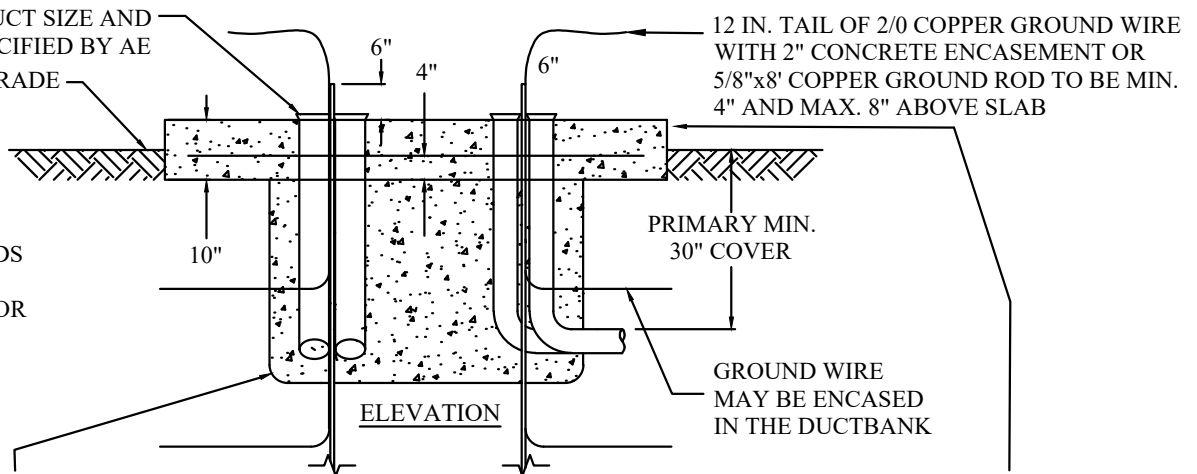
PLAN VIEW  
 1438-17



1/2" GRADE 60 REINFORCING STEEL RODS 9" ON CENTER.

USE ALTERNATIVE GROUNDING LOCATIONS AS NECESSARY.

NUMBER OF DUCTS, DUCT SIZE AND DIRECTION TO BE SPECIFIED BY AE  
 FINISHED GRADE



COMPACT SOIL UNDERNEATH PADS TO AT LEAST 95% COMPACTION PRIOR TO INSTALLING PADS.

12 IN. TAIL OF 2/0 COPPER GROUND WIRE WITH 2" CONCRETE ENCASEMENT OR 5/8"x8" COPPER GROUND ROD TO BE MIN. 4" AND MAX. 8" ABOVE SLAB

PRIMARY MIN. 30" COVER

GROUND WIRE MAY BE ENCASED IN THE DUCTBANK

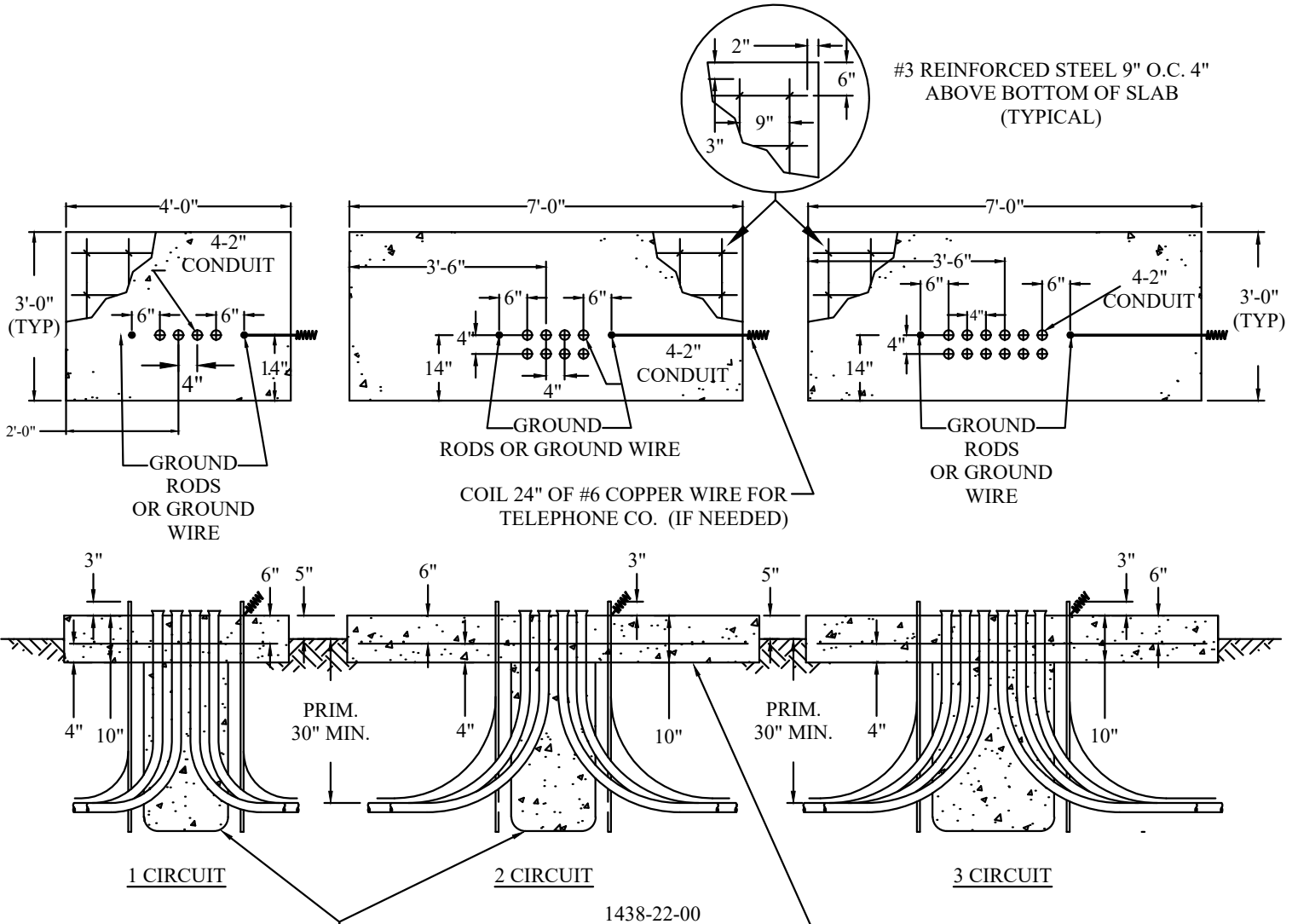
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14381712E	SWTGRPD3PHPME12DFE	SWGR PAD 3 PHASE PME- 12 DEAD FRONT EAST
14381712W	SWTGRPD3PHPME12DFW	SWGR PAD 3 PHASE PME- 12 DEAD FRONT WEST



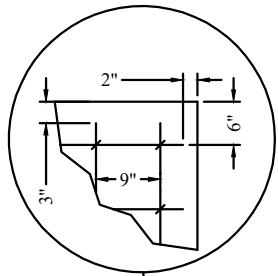
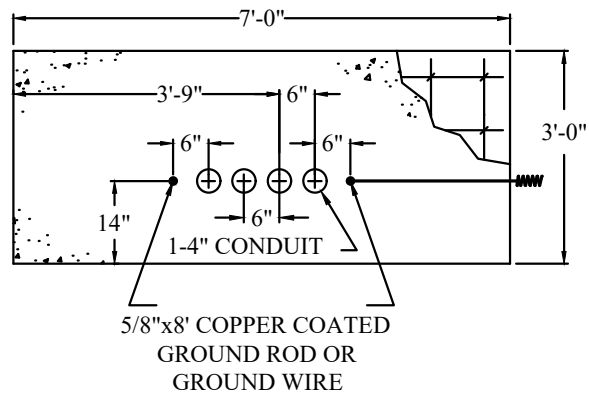
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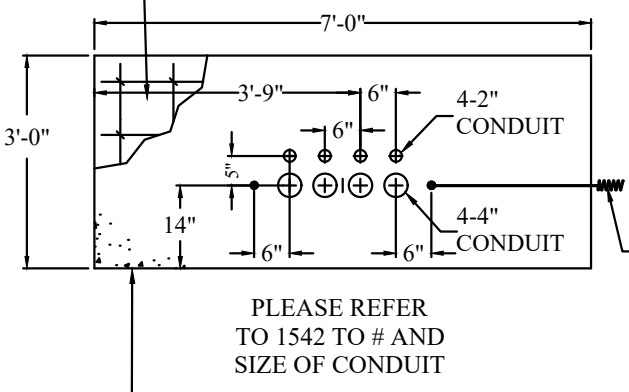
1. A MAXIMUM OF 4 CONDUITS AND 4 SETS OF CABLE PER PHASE CAN BE INSTALLED IN THE ARRANGEMENT AND NUMERICAL ORDERED AS SHOWN.
2. FOR SHELL BUILDINGS, STUB ALL SPARE CONDUITS AT THE BUILDING SERVICE RISER.
3. 35' OF 2/0 STRANDED BARE SOFT-DRAWN, TINNED COPPER GROUND OR 5/8"x8' CU. COPPERWELD GROUND ROD. (SEE GROUNDING DETAIL 1488-10 OR 1488-20)
4. STEEL BARRIER POSTS WILL BE REQUIRED WHENEVER LOAD BREAK SECTIONALIZING CABINET IS PAD INSTALLED WITHIN 4' OF A TRAFFIC AREA. (SEE BARRIER POST DETAIL DRAWING 1400-10, FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.)
5. COMPACT SOIL BENEATH PADS TO AT LEAST 95% COMPACTION, PRIOR TO INSTALLING PADS. AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.
6. GRADE AREA AROUND THE PAD, SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD. RETAINING WALLS AND DRAINAGE CHANNELS MAY BE REQUESTED BY THE UTILITY, TO PREVENT WATER AND DEBRIS FROM ACCUMULATING ON THE ROAD.
7. 90° (MIN. 24" RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
8. BELL ENDS SHALL BE 1" ABOVE SLAB.

CU-REF	CU-ID	CU-DESCRIPTION
143822A01	PADSECTION1CIR	PAD SECTIONALIZING CAB 1 CIRCUIT
143822B01	PADSECTION2CIR	PAD SECTIONALIZING CAB 2 CIRCUIT
143822C01	PADSECTION3CIR	PAD SECTIONALIZING CAB 3 CIRCUIT

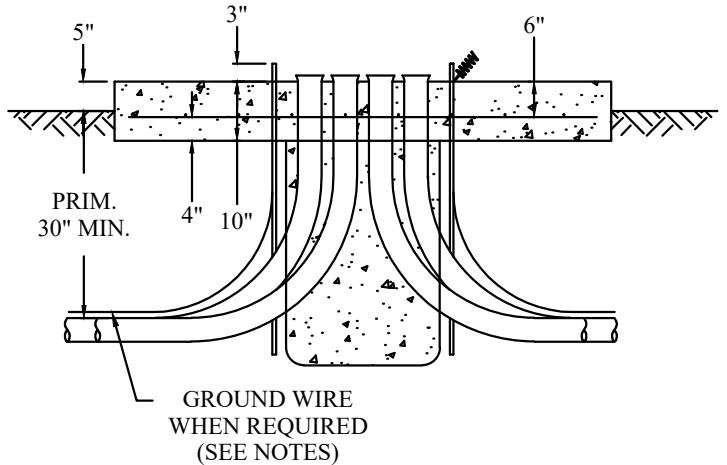


#3 REINFORCED STEEL 9" O.C.  
 4" ABOVE BOTTOM OF SLAB  
 (TYPICAL)

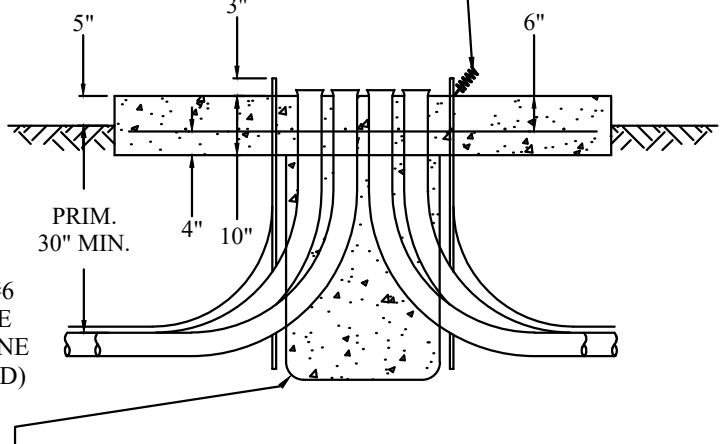
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COIL 24" OF #6 COPPER WIRE FOR TELEPHONE CO. (IF NEEDED)



INSTALL #6 BARE COPPER WIRE 3" BELOW TOP OF SLAB FOR TELECO & LEAVE 12" EXPOSED ABOVE SLAB TO BE CONNECTED TO GROUND ROD WHEN CONNECTIONS ARE MADE IN THE TRANSFORMER



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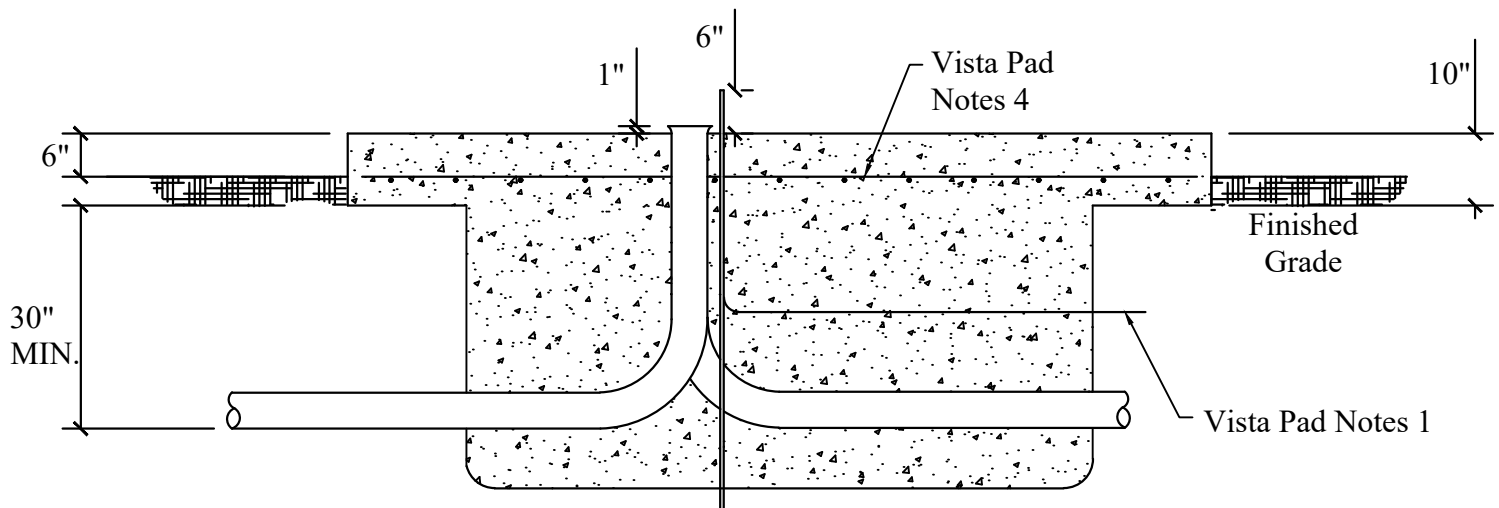
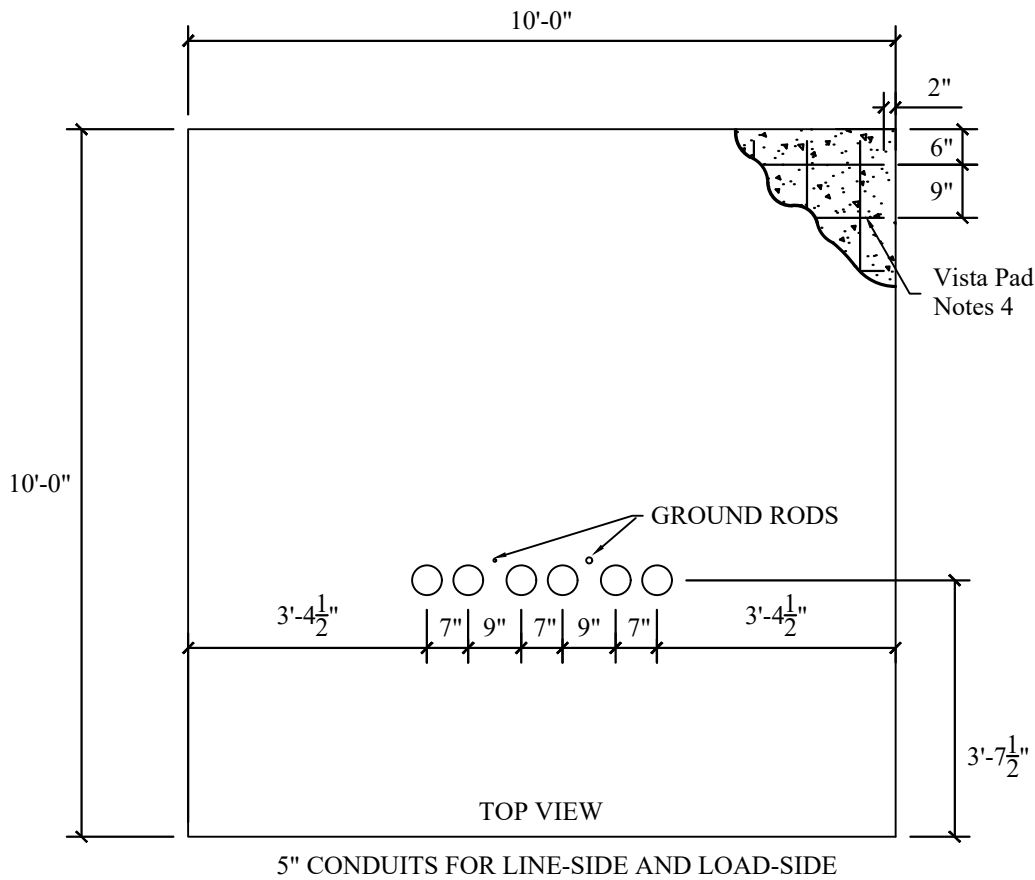
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- GRADE AREA AROUND THE PAD, SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD. RETAINING WALLS AND DRAINAGE CHANNELS MAY BE REQUESTED BY THE UTILITY, TO PREVENT WATER AND DEBRIS FROM ACCUMULATING ON THE ROAD.
- 90° (MIN. 24" RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
- BELL ENDS SHALL BE 1" ABOVE SLAB.

CU-REF	CU-ID	CU-DESCRIPTION
143824A01	PADSECTLOADBREAK1PHASE	PAD SECTIONALIZING LOADBREAK 1 PHASE
143824B01	PADSECTLOADBREAK3PHASE	PAD SECTIONALIZING LOADBREAK 3 PHASE

## VISTA PAD DETAIL NOTES:

1. A. GROUND ROD DETAIL 1488-10 (PREFERRED):  
THE GROUND ROD SHALL BE INSTALLED AS PER SECTION 1488-10. THE GROUND ROD SHALL BE INSTALLED NO LESS THAN 4 INCHES AND NO GREATER THAN 6 INCHES ABOVE THE PAD SURFACE. WHEN A BURIED GROUND ELECTRODE IS INSTALLED, A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE GROUND ROD WITH A MINIMUM 12 INCHES OF TAIL EXPOSED ABOVE THE FINISHED CONCRETE PAD SURFACE. THE GROUND ROD SHALL BE  $\frac{5}{8}$  INCH X 8 FEET COPPER CLAD.
- B. GROUND ROD DETAIL 1488-20 (OPTIONAL):  
IN CONDITIONS WHERE THE INSTALLATION OF A GROUND ROD IS NOT FEASIBLE, 35 FEET OF 2/0 AWG STRANDED BARE SOFT DRAWN COPPER WIRE ENCASED BY A 2 INCH CONCRETE ENVELOPE SHALL BE INSTALLED AS PER SECTION 1488-20. A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE 2/0 GROUND WIRE WITH A MINIMUM 12 INCH TAIL EXPOSED ABOVE THE CONCRETE PAD SURFACE.
2. STEEL BARRIER POST WILL BE REQUIRED WHENEVER SWITCHGEAR PAD IS INSTALLED WITHIN 4 FEET OF A TRAFFIC AREA. SEE BARRIER POST DETAIL DRAWING 1438-10, FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.
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5. 90 DEGREE (MIN 24 INCH RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
6. BELL ENDS SHALL BE 1 INCH ABOVE PAD.
7. 5 INCH CONDUITS FOR LINE SIDE AND LOAD SIDE SHALL BE USED.

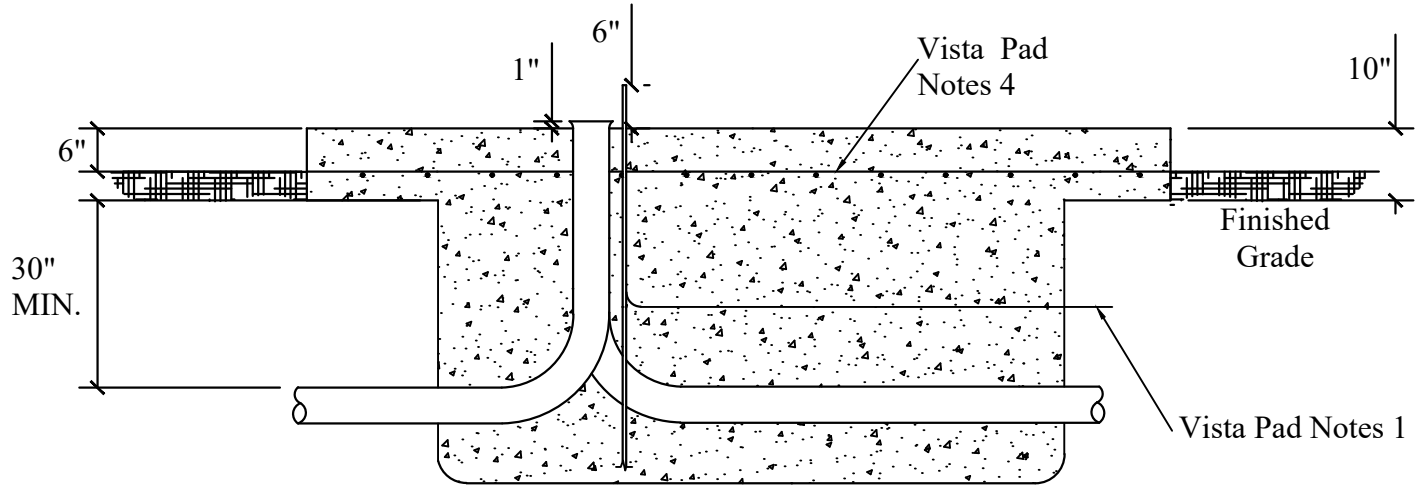
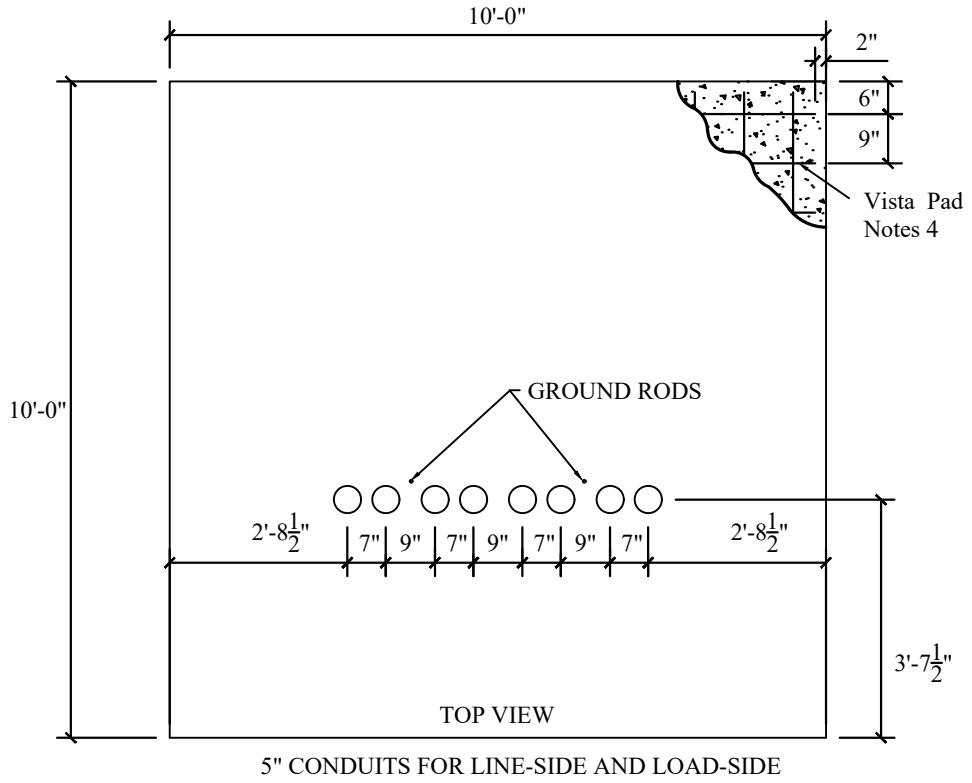
DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 PAD: SEE 1438-28



CU-REF	CU-ID	CU-DESCRIPTION
14383110E	SWTGRVISTA3WAY600-900A	PDMT SWTGR VISTA 3-WAY 600 & 900 AMP E
14383110W	SWTGRVISTA3WAY600-900AW	PDMT SWTGR VISTA 3-WAY 600 & 900 AMP W

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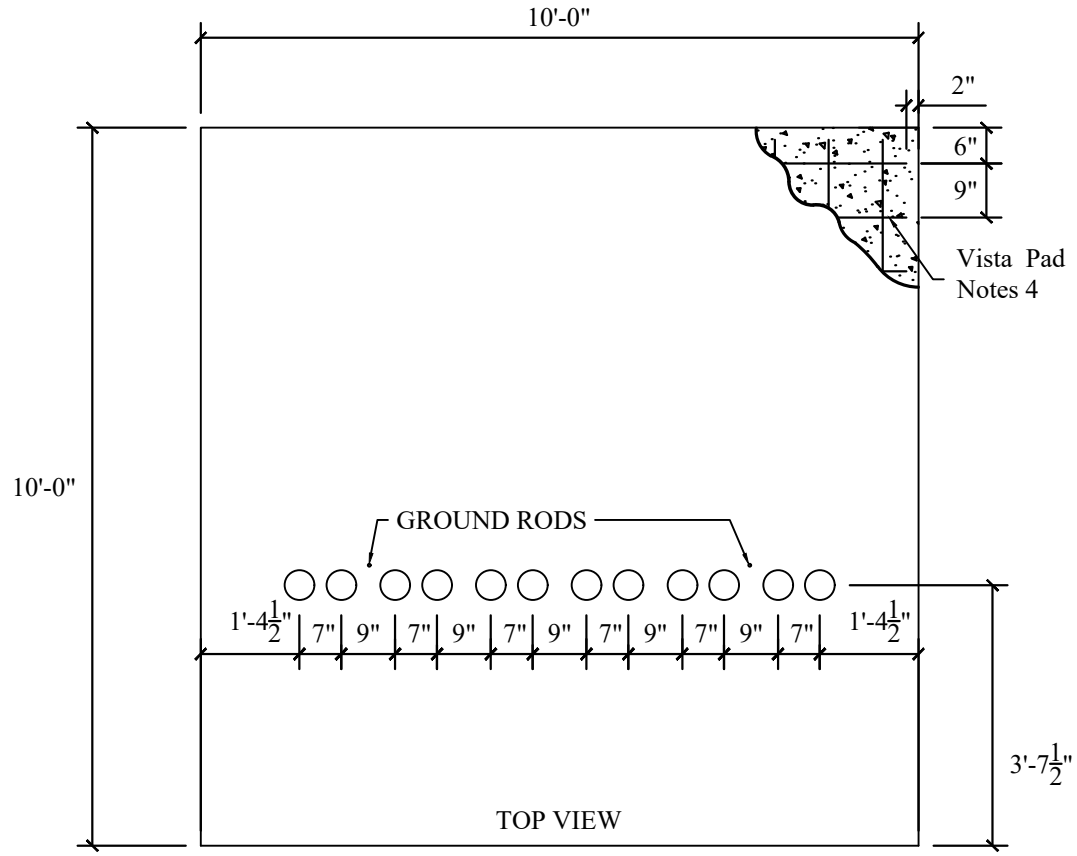
DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 PAD: SEE 1438-28



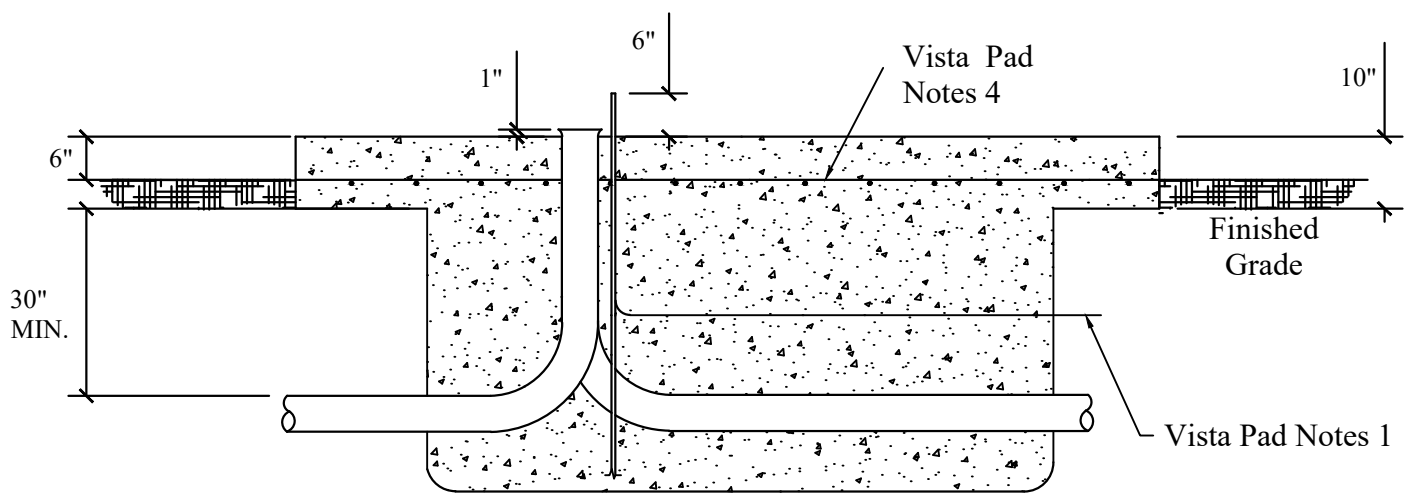
CU-REF	CU-ID	CU-DESCRIPTION
14383610E	SWTGRVISTA4WAY600-900A	PDMT SWTGR VISTA 4-WAY 600 & 900A E
14383610W	SWTGRVISTA4WAY600-900AW	PDMT SWTGR VISTA 4-WAY 600 & 900A W

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04/01/26

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 SWITCHGEAR: SEE 1438-28



5" CONDUITS FOR LINE-SIDE AND LOAD-SIDE



CU-REF	CU-ID	CU-DESCRIPTION
14384110E	SWTGRVISTA6WAY600-900A	PDMT SWTGR VISTA 6-WAY 600 - 900A E
14384110W	SWTGRVISTA6WAY600-900AW	PDMT SWTGR VISTA 6-WAY 600 - 900A W

## PME ATO SWITCHGEAR PAD NOTES:

## 1. GROUND ROD DETAIL 1488-10 (PREFERRED)

THE GROUND ROD SHALL BE INSTALLED AS PER SECTION 1488-10. THE GROUND ROD SHALL BE INSTALLED NO LESS THAN 4" AND NO GREATER THAN 6" ABOVE THE PAD SURFACE. WHEN A BURIED GROUND ELECTRODE IS INSTALLED, A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE GROUND ROD WITH A MINIMUM 12" TAIL EXPOSED ABOVE THE FINISHED CONCRETE PAD SURFACE. THE GROUND ROD SHALL BE 5/8" X 8' COPPER CLAD.

## GROUND WIRE DETAIL 1488-20 (OPTIONAL)

IN CONDITIONS WHERE THE INSTALLATION OF A GROUND ROD IS NOT FEASIBLE, 35' OF 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE ENCASED BY A 2" CONCRETE ENVELOPE SHALL BE INSTALLED AS PER SECTION 1488-20. A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE 2/0 GROUND WIRE WITH A MINIMUM 12" TAIL EXPOSED ABOVE FINISHED CONCRETE PAD SURFACE.

## 2. STEEL BARRIER POST WILL BE REQUIRED WHENEVER SWITCHGEAR PAD IS INSTALLED WITHIN 4' OF A TRAFFIC AREA. SEE BARRIER POST DETAIL DRAWING FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.

## 3. COMPACT SOIL UNDER PADS TO AT LEAST 95% COMPACTION PRIOR TO INSTALLING PADS. AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.

## 4. CONCRETE SHALL CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1-1/2 INCHES. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM-615.

## 5. 90 ° (MIN 24" RADIUS) CONDUIT BEND BE COMPLETELY CONCRETE ENCASED.

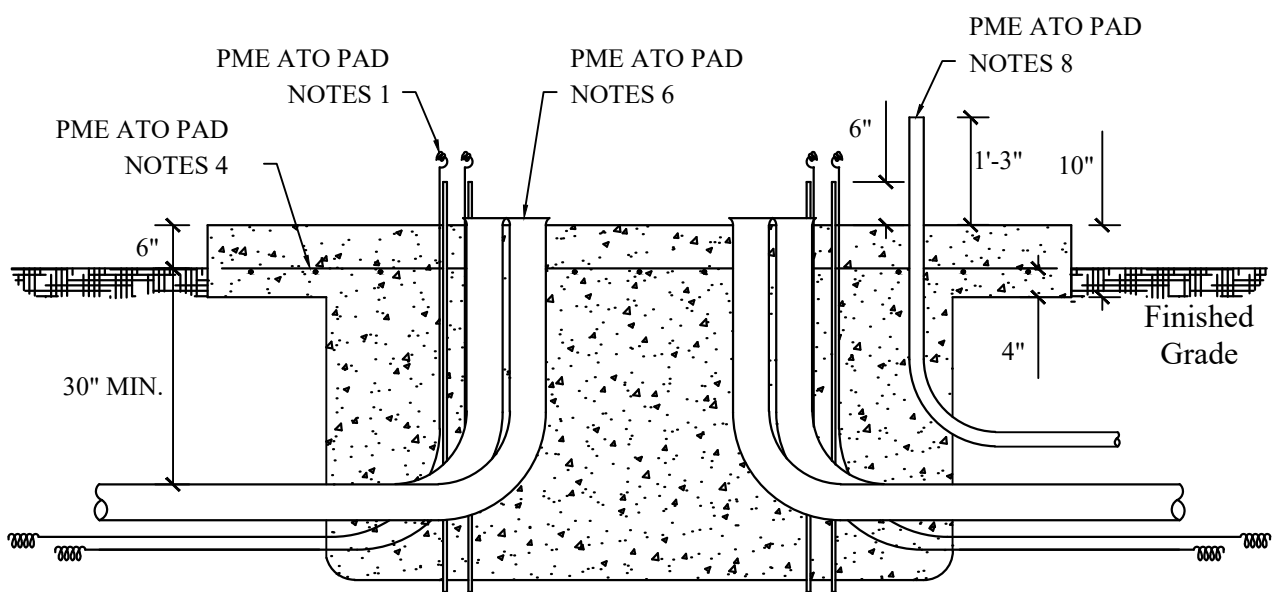
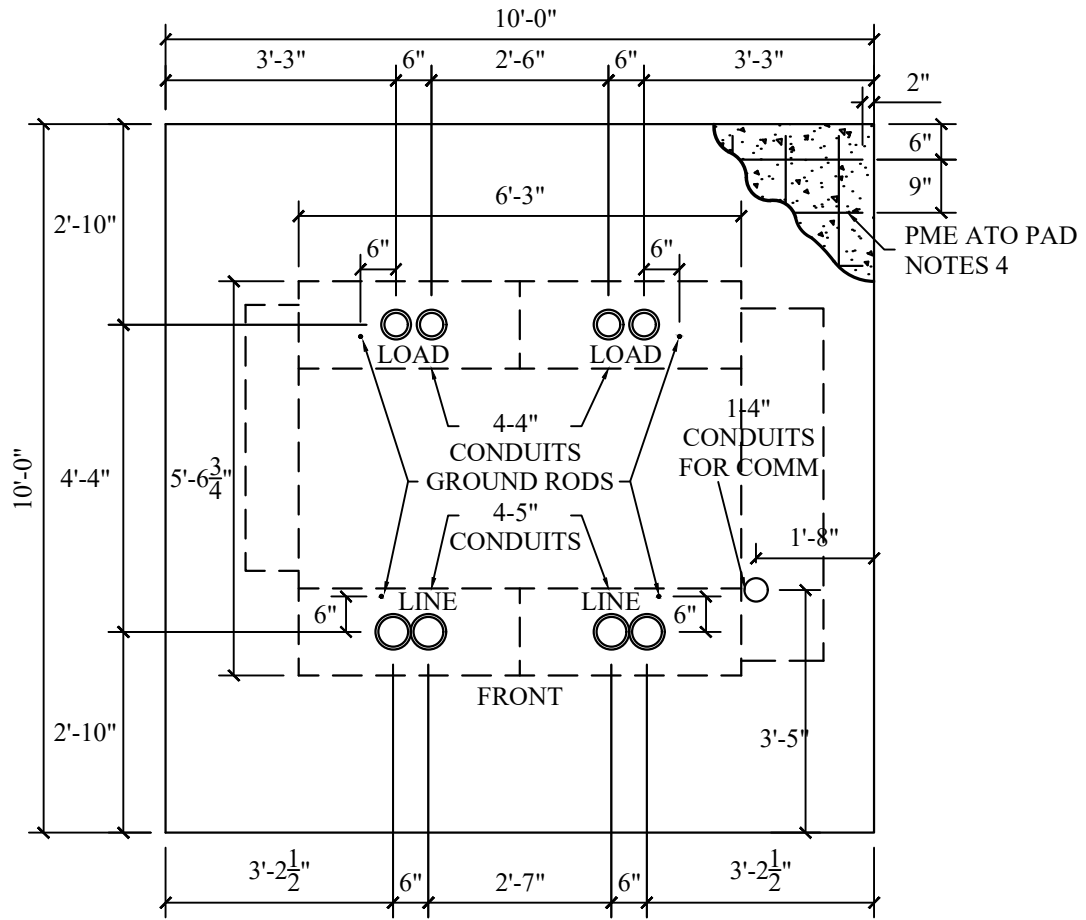
## 6. BELL ENDS SHALL BE 1" ABOVE PAD.

## 7. 5" CONDUITS FOR LINE SIDE AND 5" CONDUITS OR SMALLER FOR LOAD SIDE MAY BE USED.

## 8. 4" COMMS CONDUITS FOR COMMUNICATIONS SHALL BE 15" ABOVE SLAB.

REV\_DATE:  
04/01/26

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 PAD FOR PME ATO: SEE 1438-43



CU-REF	CU-ID	CU-DESCRIPTION
14384410E	SWTGRATOPMEE	PDMT SWGR ATO PME EAST
14384410W	SWTGRATOPMEW	PDMT SWGR ATO PME WEST

## NOTES FOR DBL TANK ATO SWITCHGEAR PAD

## PME ATO SWITCHGEAR PAD NOTES:

## 1. GROUND ROD DETAIL 1488-10 (PREFERRED)

THE GROUND ROD SHALL BE INSTALLED AS PER SECTION 1488-10. THE GROUND ROD SHALL BE INSTALLED NO LESS THAN 4" AND NO GREATER THAN 6" ABOVE THE PAD SURFACE. WHEN A BURIED GROUND ELECTRODE IS INSTALLED, A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE GROUND ROD WITH A MINIMUM 12" TAIL EXPOSED ABOVE THE FINISHED CONCRETE PAD SURFACE. THE GROUND ROD SHALL BE 5/8" X 8' COPPER CLAD.

## GROUND WIRE DETAIL 1488-20 (OPTIONAL)

IN CONDITIONS WHERE THE INSTALLATION OF A GROUND ROD IS NOT FEASIBLE, 35' OF 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE ENCASED BY A 2" CONCRETE ENVELOPE SHALL BE INSTALLED AS PER SECTION 1488-20. A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE 2/0 GROUND WIRE WITH A MINIMUM 12" TAIL EXPOSED ABOVE FINISHED CONCRETE PAD SURFACE.

## 2. STEEL BARRIER POST WILL BE REQUIRED WHENEVER SWITCHGEAR PAD IS INSTALLED WITHIN 4' OF A TRAFFIC AREA. SEE BARRIER POST DETAIL DRAWING FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.

## 3. COMPACT SOIL UNDER PADS TO AT LEAST 95% COMPACTION PRIOR TO INSTALLING PADS. AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.

## 4. CONCRETE SHALL CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1-1/2 INCHES. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM-615.

## 5. 90 ° (MIN 24" RADIUS) CONDUIT BEND BE COMPLETELY CONCRETE ENCASED.

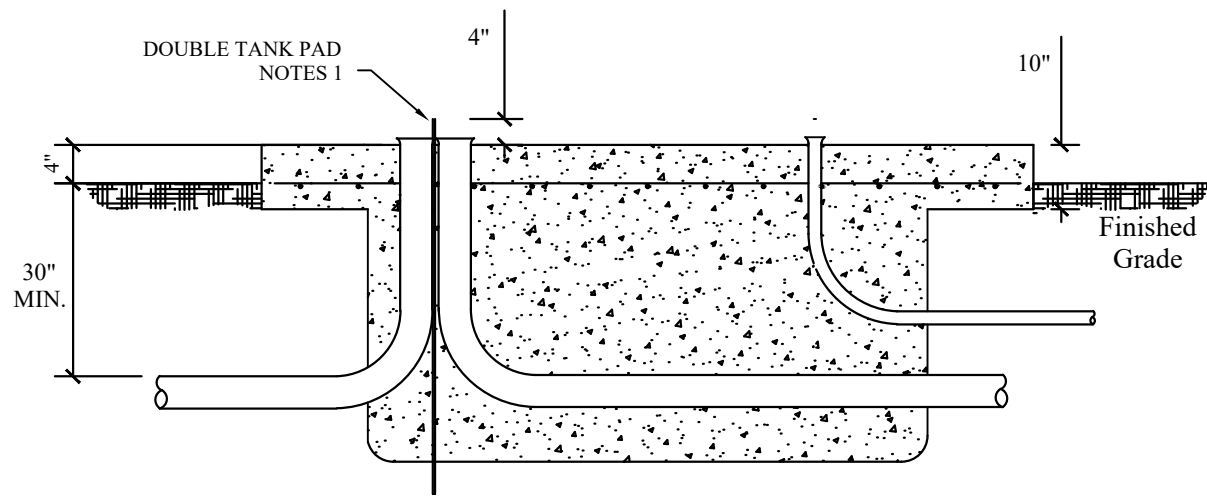
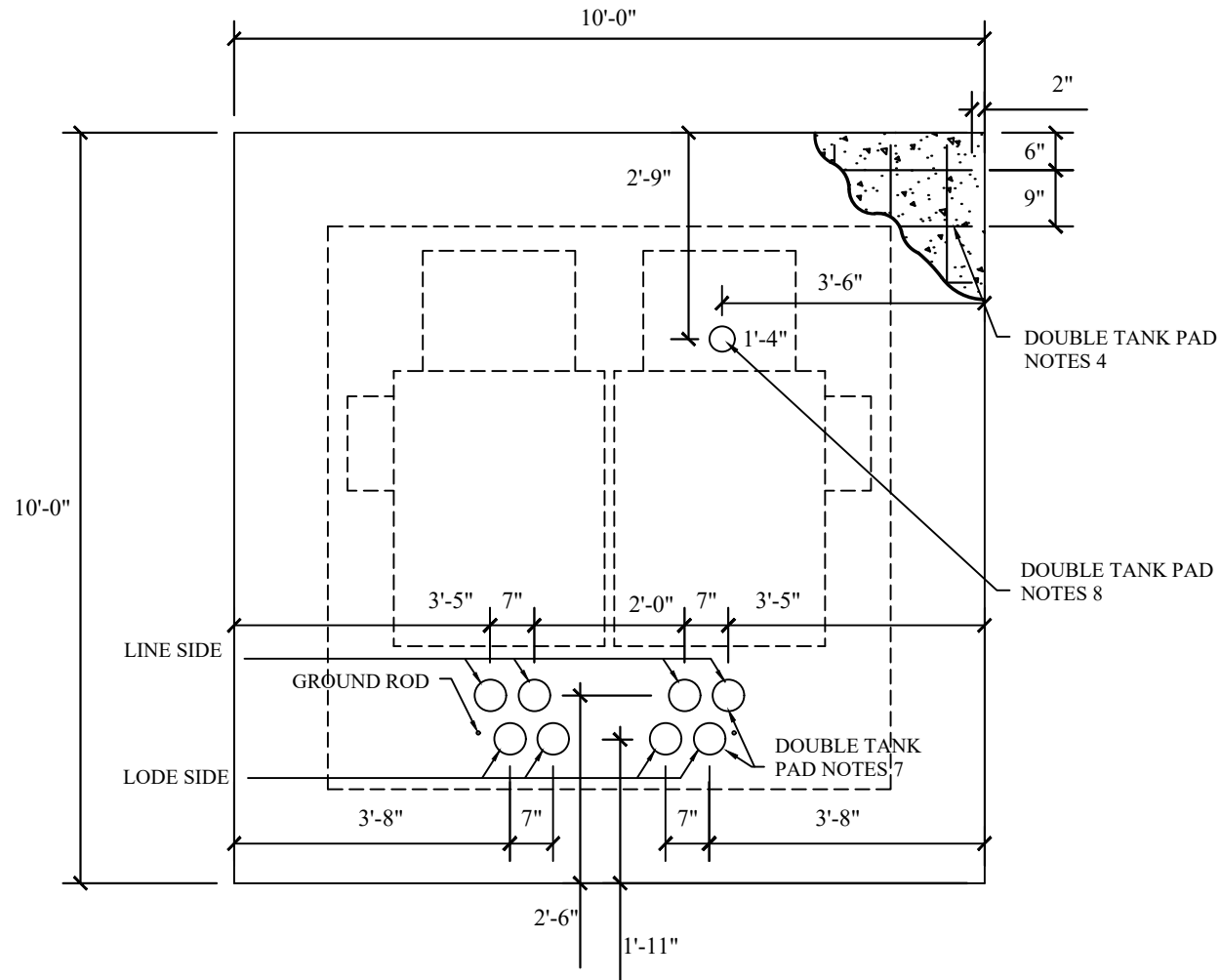
## 6. BELL ENDS SHALL BE 1" ABOVE PAD.

## 7. 5" CONDUITS FOR LINE SIDE AND 5" CONDUITS OR SMALLER FOR LOAD SIDE MAY BE USED.

## 8. 4" CONDUITS FOR COMMUNICATIONS SHALL BE USED. IF A COMMUNICATION RISER POLE IS REQUIRED FOR COMMUNICATIONS, THE CUSTOMER WILL BE RESPONSIBLE FOR INSTALLING THIS. FOR DETAILS ON THE COMMUNICATION RISER POLE CONSTRUCTION REFER TO SECTION 1360-70.

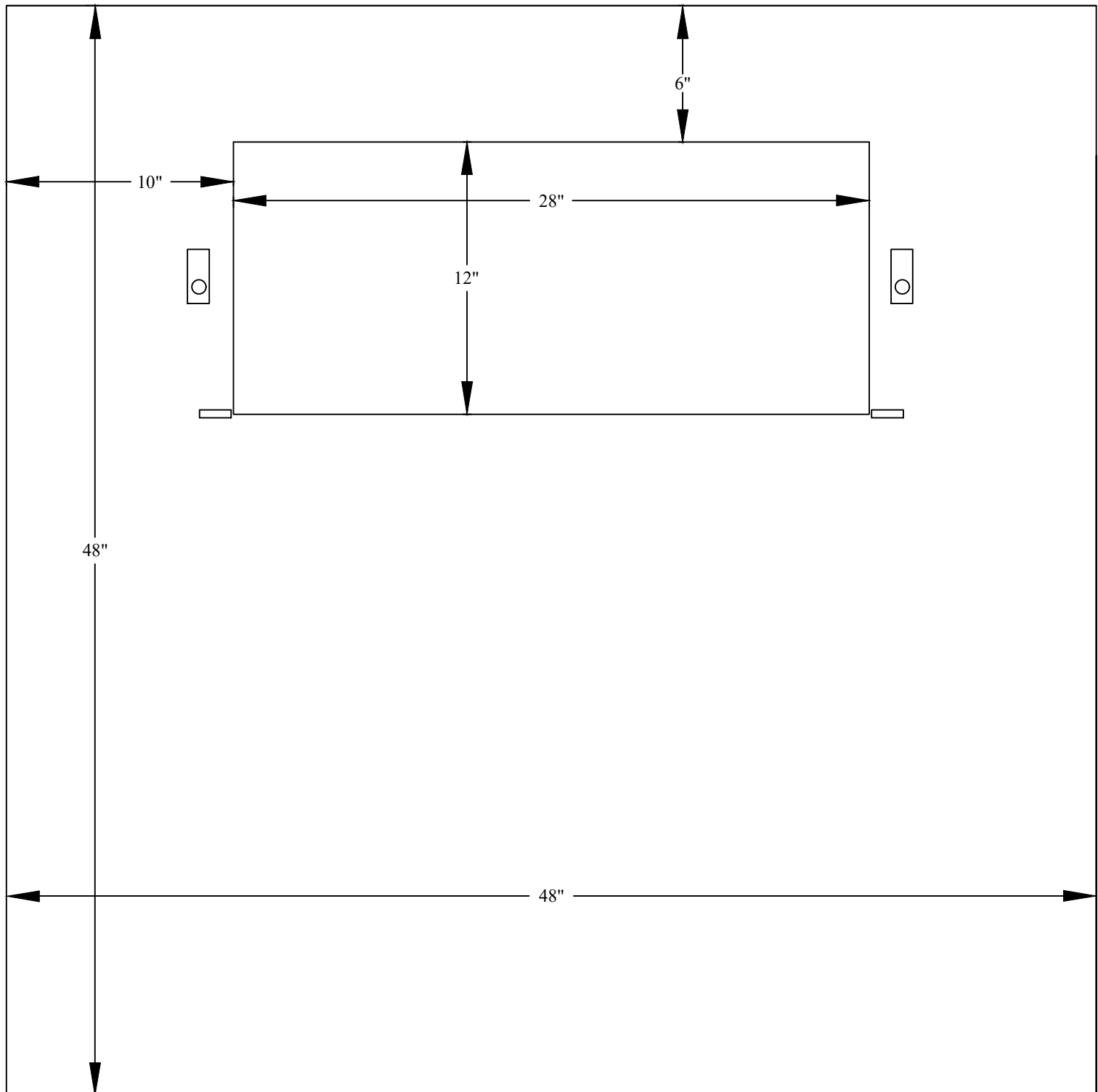
REV\_DATE:  
04/01/26

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 PAD DETAIL FOR DBL TANK ATO: SEE 1438-46



CU-REF	CU-ID	CU-DESCRIPTION
14384710E	SWTGRATODBLTANKE	PDMT SWGR ATO DOUBLE TANK EAST
14384710W	SWTGRATODBLTANKW	PDMT SWGR ATO DOUBLE TANK WEST

REV\_DATE:  
04/01/26

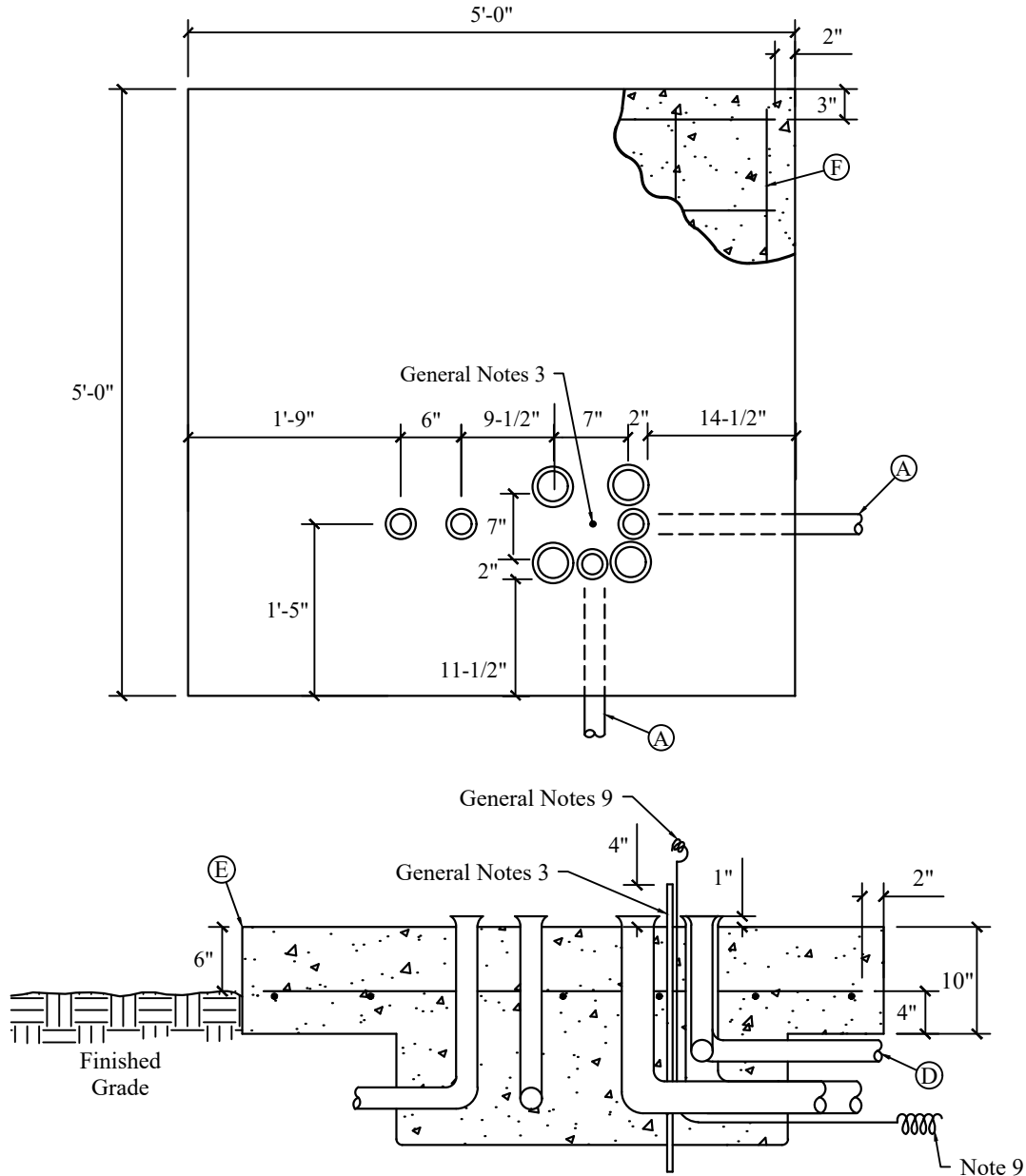


CU-REF	CU-ID	CU-DESCRIPTION
14384801	PADMTTEMPXFRMR25-167KVA	PAD MOUNT TEMPORARY XFRMR PAD 25- 167 KVA

GENERAL NOTES FOR CONCRETE PADS FOR SINGLE AND 3 PHASE PAD-MOUNTED TRANSFORMERS:

1. FOR SHELL BUILDINGS, STUB ALL SPARE CONDUITS AT THE BUILDINGS SERVICE RISER.
2. ALL UNUSED SPARE CONDUITS SHALL BE STUBBED 5 FEET BEYOND THE EDGE OF THE PAD.
3. GROUND ROD DETAIL 1488-10 (PREFERRED)  
THE GROUND ROD SHALL BE INSTALLED AS PER SECTION 1488-10. THE GROUND ROD SHALL BE INSTALLED ON THE SECONDARY SIDE OF THE TRANSFORMER PAD. THE GROUND ROD SHALL BE INSTALLED NO LESS THAN 4" AND NO GREATER THAN 6" ABOVE THE PAD SURFACE. WHEN A BURIED GROUND ELECTRODE IS INSTALLED, A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE GROUND ROD WITH A MINIMUM 12" TAIL EXPOSED ABOVE THE FINISHED CONCRETE PAD SURFACE. THE GROUND ROD SHALL BE 5/8" X 8" COPPER CLAD.  
  
GROUND WIRE DETAIL 1488-20 (OPTIONAL)  
IN CONDITIONS WHERE THE INSTALLATION OF A GROUND ROD IS NOT FEASIBLE, 35' OF 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE ENCASED BY A 2" CONCRETE ENVELOPE SHALL BE INSTALLED AS PER SECTION 1488-20. A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE 2/0 GROUND WIRE WITH A MINIMUM 12" TAIL EXPOSED ABOVE FINISHED CONCRETE PAD SURFACE.
4. STEEL BARRIER POSTS WILL BE REQUIRED WHENEVER TRANSFORMER PAD IS INSTALLED WITHIN 4' OF A TRAFFIC AREA. SEE BARRIER POST DETAIL DRAWING 1438-10, FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.
5. COMPACT SOIL BENEATH PADS TO AT LEAST 95% COMPACTION, PRIOR TO INSTALLING PADS. AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.
6. CONCRETE SHALL CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SHALL NOT EXCEED 1-1/2 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.
7. GRADE AREA AROUND THE PAD, SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD. RETAINING WALLS AND DRAINAGE CHANNELS MAY BE REQUESTED BY THE UTILITY, TO PREVENT WATER AND DEBRIS FROM ACCUMULATING ON THE ROAD.
8. 90° (MIN. 24" RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
9. INSTALL #6 BARE COPPER WIRE 6" BELOW FINISHED GRADE FOR TELECO. LEAVE 12" EXPOSED ABOVE PAD TO BE CONNECTED TO GROUND ROD (OR GROUND WIRE, WHICHEVER METHOD IS USED) WHEN CONNECTIONS ARE MADE IN THE TRANSFORMER.
10. BELL ENDS SHALL BE 1" ABOVE PAD.

DETAILS  
BARRIER POSTS & CLEARANCE: SEE 1438-10  
STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
PAD DETAIL FOR XFMR: SEE 1438-55

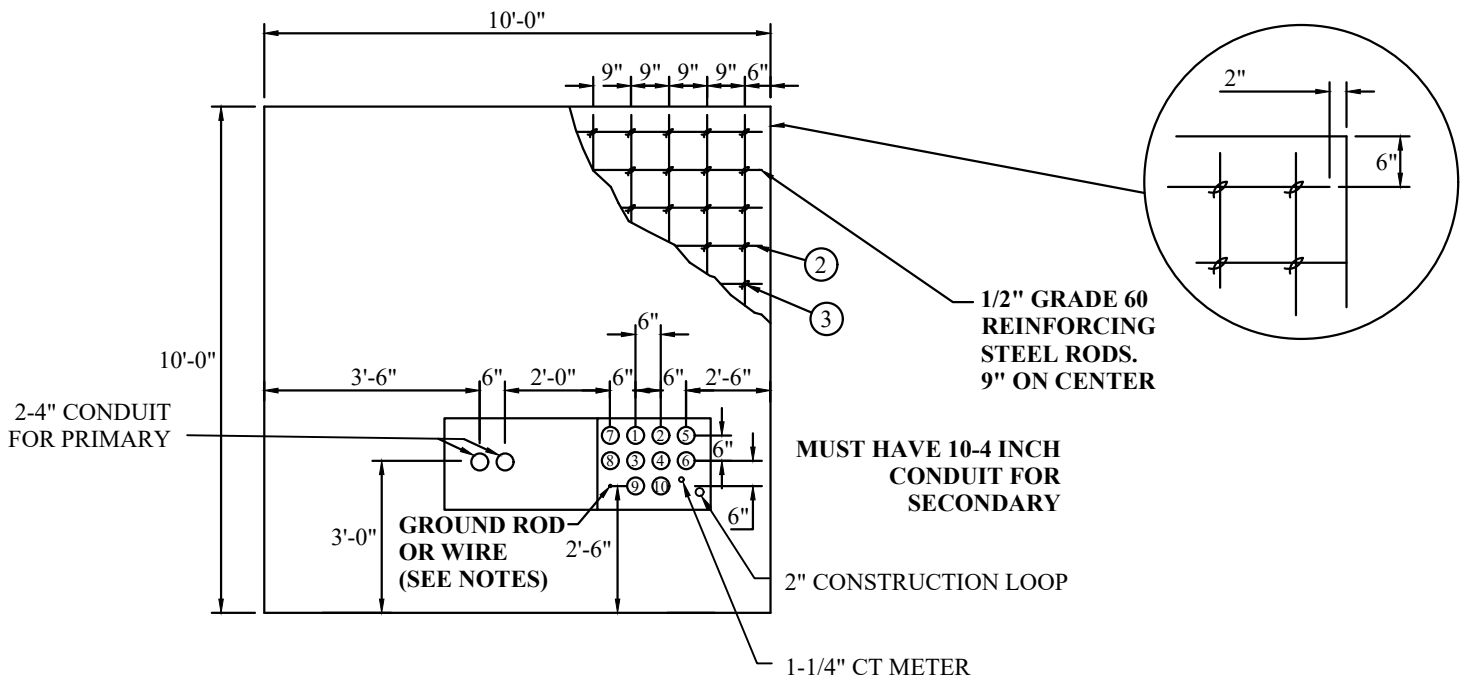


NOTES:

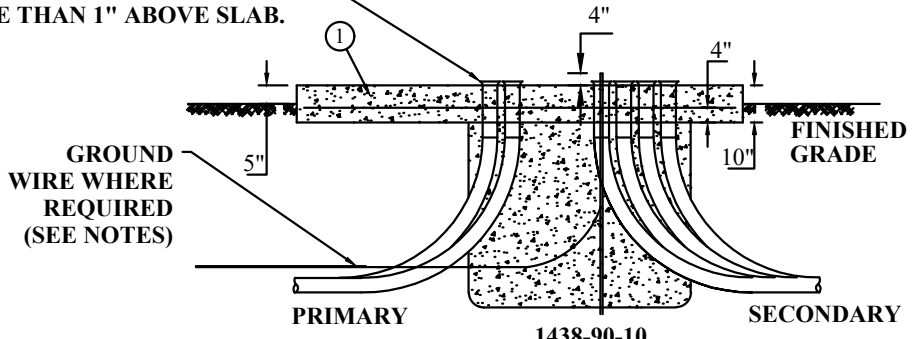
- A. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE DRAWING. 2-2" PRIMARY CONDUITS SHALL BE INSTALLED WITH BELL ENDS 1" ABOVE FINISHED CONCRETE PAD. 4-3" SECONDARY CONDUITS MAXIMUM CAN BE INSTALLED WITH BELL ENDS 1" ABOVE FINISHED CONCRETE PAD. 1-2" STREETLIGHT CONDUIT SHALL BE INSTALLED WITH BELL ENDS 1" ABOVE FINISHED GRADE, 2' BEYOND THE THE EDGE OF THE PAD ON THE STREET SIDE WHEN SPACE PERMITS. 1-2" CONSTRUCTION LOOP CONDUIT SHALL BE INSTALLED WITH BELL ENDS 1" ABOVE FINISHED GRADE.
- B. ALL CONSTRUCTION LOOP CONDUITS SHALL BE INSTALLED ON THE RIGHT SIDE OF THE PAD.
- C. THE CONDUIT DIRECTION SHALL BE SPECIFIED ON AUSTIN ENERGY APPROVED CONSTRUCTION PRINTS.
- D. IF MORE THAN 3-3" CONDUITS ARE REQUIRED FOR THE INSTALLATION OF THE CUSTOMERS SERVICE ENTRANCE CONDUCTORS, THE CUSTOMER SHALL BE REQUIRED TO FURNISH A SPECIAL CABLE TERMINATION ENCLOSURE.
- E. TOP OF PAD SHALL BE 6" ABOVE FINAL GRADE.
- F. #3 REINFORCED STEEL 9" ON CENTER AND 4" ABOVE BOTTOM OF PAD.

CU-REF	CU-ID	CU-DESCRIPTION
14386010E	PADCIP1PHXF60X60INE	PAD CIP 1PH XFMR 60 IN. X 60 IN EAST
14386010W	PADCIP1PHXF60X60INW	PAD CIP 1PH XFMR 60 IN X 60 IN WEST

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20



NOTE: BELL ENDS SHALL BE NO MORE THAN 1" ABOVE SLAB.

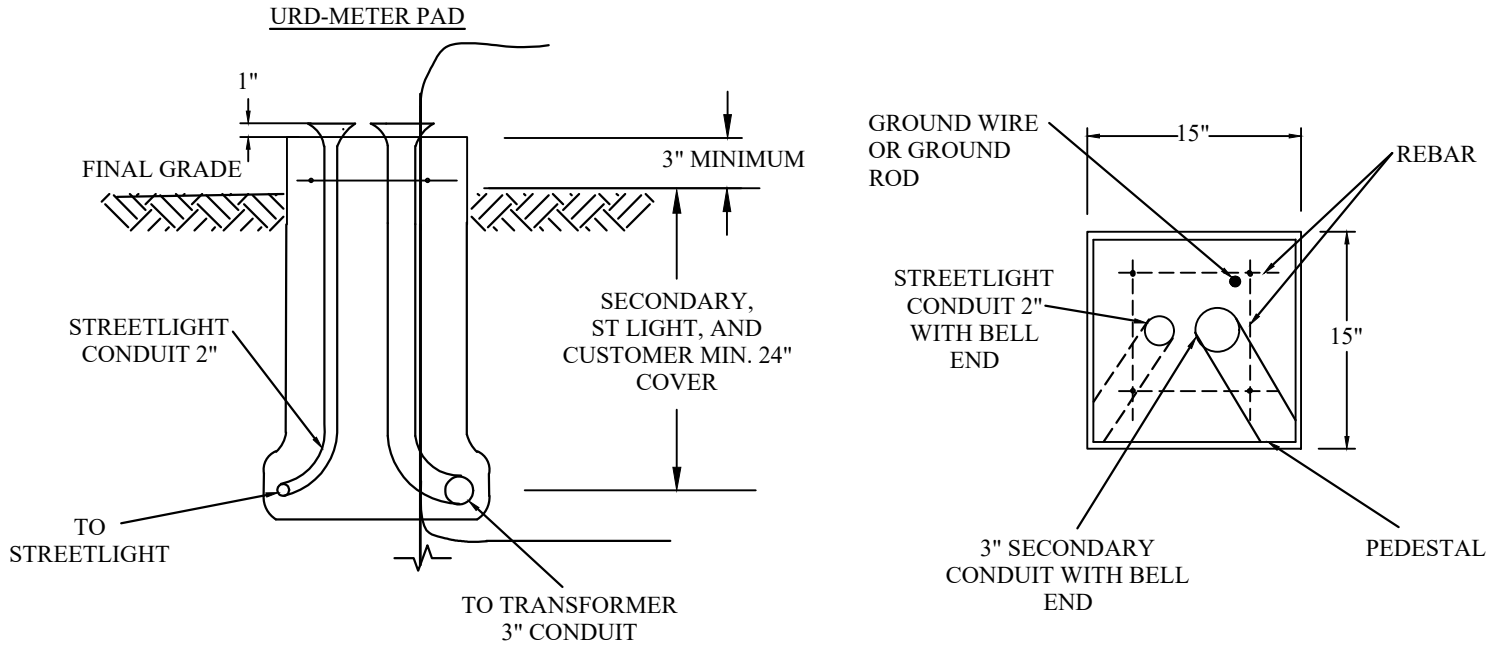


NOTES:

1. A MAXIMUM OF 2-4INCH OR 2-5INCH CONDUITS ON THE PRIMARY SIDE. SECONDARY SIDE MUST HAVE 10-4INCH CONDUITS AND A MAXIMUM OF 10 SETS OF CABLE PER PHASE CAN BE INSTALLED IN THE ARRANGEMENT AND NUMERICAL ORDERED AS SHOWN, WITH 1-2INCH TEMP LOOP CONDUIT, AND 1-1 1/4INCH CT CONDUIT..
2. FOR SHELL BUILDINGS, STUB ALL SPARE CONDUITS AT THE BUILDING SERVICE RISER.
3. 35' OF 2/0 STRANDED BARE SOFT-DRAWN, TINNED COPPER GROUND OR 5/8"x8' CU. COPPERWELD GROUND ROD. (SEE GROUNDING DETAIL 1488-10 OR 1488-20)
4. STEEL BARRIER POSTS WILL BE REQUIRED WHENEVER LOAD BREAK SECTIONALIZING CABINET IS PAD INSTALLED WITHIN 4' OF A TRAFFIC AREA. (SEE BARRIER POST DETAIL DRAWING 1400-10, FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.)
5. COMPACT SOIL BENEATH PADS TO AT LEAST 95% COMPACTION, PRIOR TO INSTALLING PADS. AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.
6. GRADE AREA AROUND THE PAD, SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD. RETAINING WALLS AND DRAINAGE CHANNELS MAY BE REQUESTED BY THE UTILITY, TO PREVENT WATER AND DEBRIS FROM ACCUMULATING ON THE ROAD.
7. 90° (MIN. 24" RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
8. BELL ENDS SHALL BE 1" ABOVE SLAB.
9. TOP SLAB CONCRETE SHALL CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS. AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1-1/2 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.
10. BOTTOM SLAB CONCRETE SHALL BE 4 SACK AND CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 LBS. AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 3/8 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.

CU-REF	CU-ID	CU-DESCRIPTION
14389010E	PADCIP3PHXF10X10E	PAD CIP 3PH XFMR 10'X10' EAST
14389010W	PADCIP3PHXF10X10W	PAD CIP 3PH XFMR 10'X10' WEST

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 EQUIPMENT ANCHORING HARDWARE: SEE 1502-02



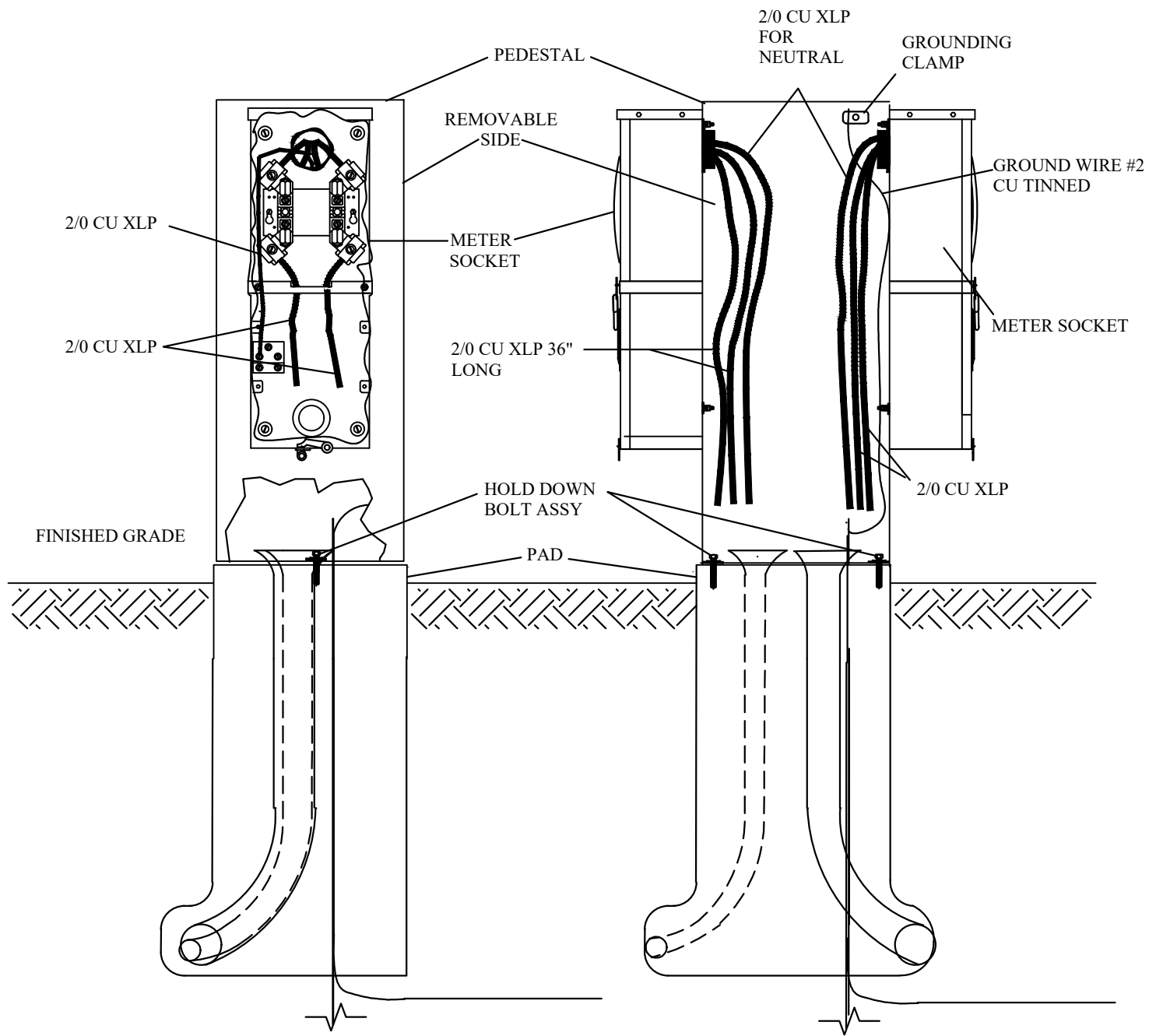
TOP SLAB AND ENCASEMENT CONCRETE SHALL BE 5 SACK AND CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS. AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 1-1/2 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.

**NOTES: METER PAD**

1. COPPERWELD GROUND ROD (8 FT-0 IN) OR 35 FT OF 2/0 STRANDED BARE SOFT DRAWN, TINNED. (SEE GROUNDING DETAIL 1488-10 AND 1488-20)
2. CONDUIT ENCASEMENT CONCRETE SHALL BE A DEPTH OF 24 IN MINIMUM. THE 3 IN AND 2 IN ELBOW MUST BE ENTIRELY ENCASED IN CONCRETE.
3. THE REINFORCING BARS SHALL BE PLACED 2 IN BELOW TOP OF CONCRETE. THE BAR SPACING SHALL BE 6 IN MINIMUM TO 8 IN MAXIMUM. THE BAR SIZE SHALL BE #3.
4. GRADE AREA AROUND PAD SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD.
5. LOCATION OF PAD WILL BE DETERMINED BY AE DESIGNER.
6. CONDUIT SHALL BE SCHEDULE 40.
7. 3 IN CONDUIT AND 2 IN CONDUIT SHALL HAVE A BELL END EXTENDED 1 IN ABOVE SLAB.
8. ARRANGE CONDUIT SUCH THAT THE 3 IN IS ON THE PADMOUNT TRANSFORMER SIDE OF THE PEDESTAL.

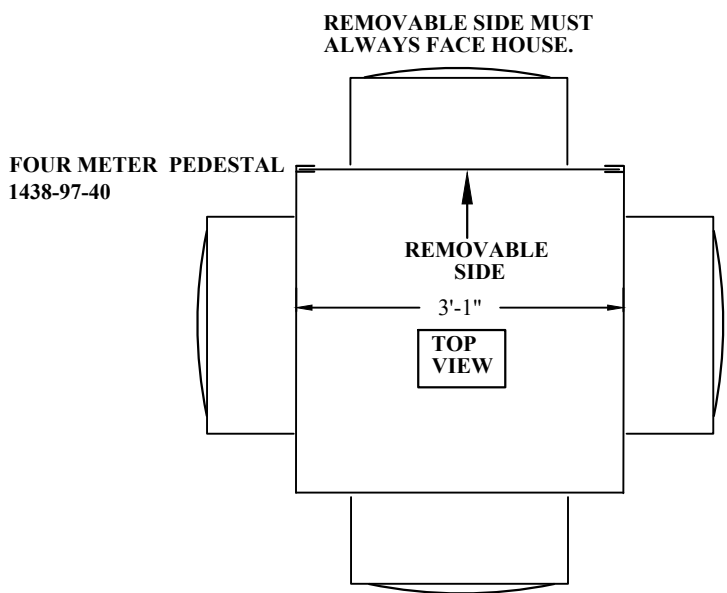
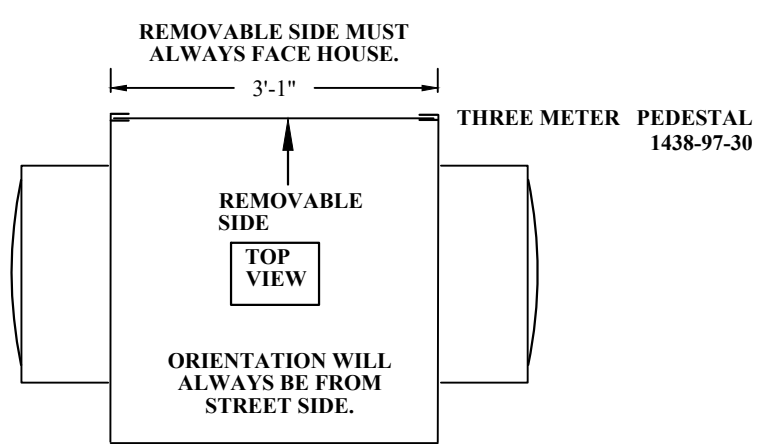
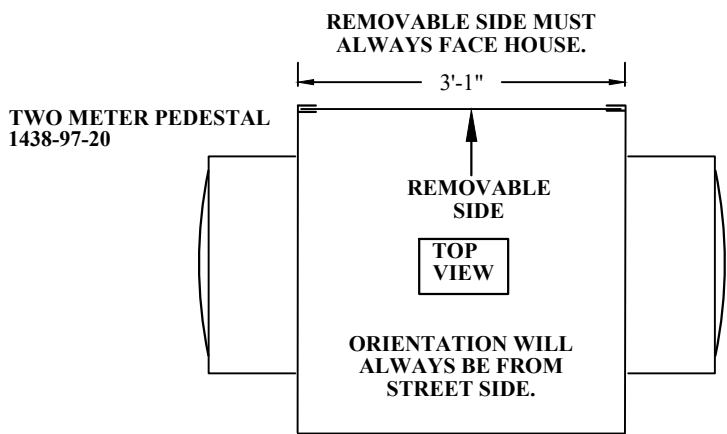
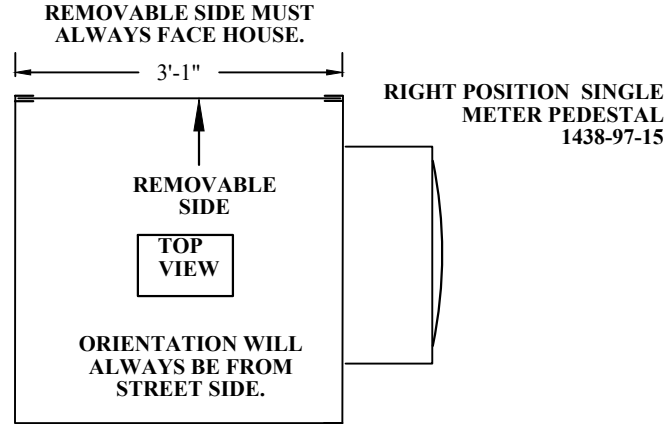
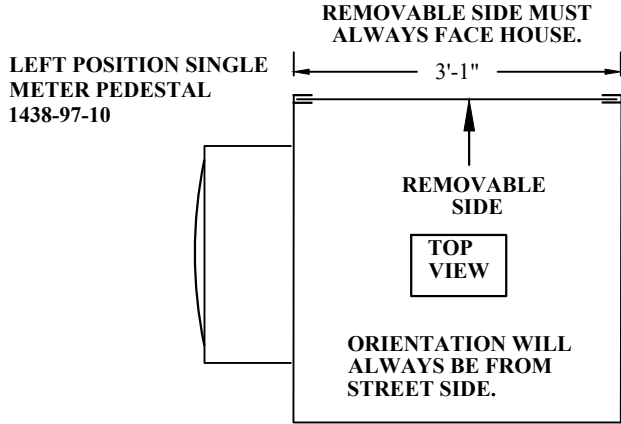
CU-REF	CU-ID	CU-DESCRIPTION
14389510E	PADCIPMULMETPED15X15E	PAD MULTIMETER PEDESTAL 15"X15" EAST
14389510W	PADCIPMULMETPED15X15W	PAD MULTIMETER PEDESTAL 15"X15" WEST

- NOTES:  
 1. PEDESTAL MUST BE CENTERED ON THE PAD.  
 2. MOUNTING HARDWARE WILL CONSIST OF TWO (2) HOLD DOWN BOLTS OPPOSITE EACH OTHER LOCATED ON THE METER SIDES OF THE PEDESTAL.



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04/01/26

DETAILS  
 BARRIER POSTS & CLEARANCE: SEE 1438-10  
 STRUCTURE GROUNDING: SEE 1488-10 & 1488-20  
 EQUIPMENT ANCHORING HARDWARE: SEE 1502-02



- NOTE:
1. THERE SHALL BE A THREE FOOT (3') WORKING CLEARANCE ON ALL FOUR SIDES OF PEDESTAL PAD.
  2. REMOVABLE SIDE OF PEDESTAL SHALL ALWAYS FACE HOUSE.
  3. ORIENTATION SHALL DETERMINE "LEFT" AND/OR "RIGHT" SINGLE METER PEDESTALS, AND SHALL ALWAYS BE FROM THE STREET SIDE.

CU-REF	CU-ID	CU-DESCRIPTION
14389710	PEDIMTRLASSY	PEDESTAL SINGLE METER LEFT ASSEMBLY
14389715	PEDIMTRRASSY	PEDESTAL SINGLE METER RIGHT ASSEMBLY