2" CONDUIT

24" DIA. CONCRETE BASE OR 18" SQ. CONCRETE BASE

USE TEMPLATE PROVIDED BY MFR.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED ANCHOR BOLTS

BASE COVER

48" MIN.

40" MIN.

2% MAX. SLOPE

BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE (ONE PER BOLT)
SEE NOTE 1

15# FELT (2 LAYERS)

STANDARD GROUNDING PLATE
PER NEC 250.52 & 250.53

NOTE:

1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
2" CONDUIT

USE TEMPLATE PROVIDED BY MFR.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

2" CONDUIT

BASE COVER

48" MIN.

40" MIN.

BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE (ONE PER BOLT)
SEE NOTE 1

2% MAX. SLOPE

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED ANCHOR BOLTS

2" CONDUIT

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED ANCHOR BOLTS

2" CONDUIT

BASE COVER

48" MIN.

40" MIN.

BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE (ONE PER BOLT)
SEE NOTE 1

NOTE:

1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

501 PORTLAND CEMENT CONCRETE
623 TRAFFIC SIGNALS & STREETLIGHTING

TYPE "B" FOUNDATION

DATE 9-14-00  DWG. NO. 716
NOTE:
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
NOTES:
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

ANCHOR BOLTS

<table>
<thead>
<tr>
<th>POLE GA</th>
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<tbody>
<tr>
<td>11</td>
<td>SEE POLE DRAWING</td>
</tr>
<tr>
<td>7</td>
<td>1-1/8&quot; X 40&quot; X 4&quot;</td>
</tr>
<tr>
<td>3</td>
<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE
(ONE PER BOLT)
SEE NOTE 2

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

USE TEMPLATE PROVIDED BY MFR.

2" CONDUIT

6"X6" WIRE MESH
10 GA.

36" DIA. CONCRETE BASE

24" MIN.

3'-6" MESH HEIGHT

2% MAX SLOPE

48" MIN.

44" MIN.

15# FELT (2 LAYERS)

STD. GROUNDING PLATE
PER NEC 250-52 & 250-53

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "E" FOUNDATION

DATE 9-14-00   DWG. NO. 718
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

3. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

ANCHOR BOLTS

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BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 2

BASE COVER

48" MIN.

44" MIN.

FINISH GRADE SEE NOTE 3

2" CONDUIT

24" MIN.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.
NOTES:
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
3. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

ANCHOR BOLTS

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BASE COVER

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN., 6" MAX. CONCRETE CAP

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

agency approved BC H L M N

specification reference

501 PORTLAND CEMENT CONCRETE
623 TRAFFIC SIGNALS & STREETLIGHTING

Uniform standard drawings
Clark county area

Type "G" foundation

Date 9-14-00 DWG. No. 720
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

3. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

4. 4" MIN.-6" MAX. CONCRETE CAP

5. NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

6. CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

7. 1 3/4" X 60" X 6" BOLTS BASE OF POLE

8. 1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

9. 4" MIN.-6" MAX. CONCRETE CAP

10. BASE COVER

11. 48" MIN.

12. FINISH GRADE SEE NOTE 3

13. 2% MAX SLOPE

14. 6"X6" WIRE MESH

15. 10 GA.

16. 6" CONDUIT

17. 2" CONDUIT

18. 10'-0" MESH HEIGHT

19. 6"X6" CONCRETE BASE

20. 24" MIN.

21. 24" MIN.

22. 36" MESH HEIGHT

23. 12'-0"

24. 36" DIA. CONCRETE BASE

25. 15# FELT (2 LAYERS)

26. STD. GROUNDING PLATE

27. BASE COVER

28. 48" MIN.

29. FINISH GRADE SEE NOTE 3

30. 2% MAX SLOPE

31. 6"X6" WIRE MESH

32. 10 GA.

33. 6" CONDUIT

34. 2" CONDUIT

35. 10'-0" MESH HEIGHT

36. 6"X6" CONCRETE BASE

37. 24" MIN.

38. 24" MIN.

39. 36" MESH HEIGHT

40. 12'-0"

41. 36" DIA. CONCRETE BASE

42. 15# FELT (2 LAYERS)

43. STD. GROUNDING PLATE

44. BASE COVER

45. 48" MIN.

46. FINISH GRADE SEE NOTE 3

47. 2% MAX SLOPE

48. 6"X6" WIRE MESH

49. 10 GA.

50. 6" CONDUIT

51. 2" CONDUIT

52. 10'-0" MESH HEIGHT

53. 6"X6" CONCRETE BASE

54. 24" MIN.

55. 24" MIN.

56. 36" MESH HEIGHT

57. 12'-0"

58. 36" DIA. CONCRETE BASE

59. 15# FELT (2 LAYERS)

60. STD. GROUNDING PLATE

61. BASE COVER

62. 48" MIN.

63. FINISH GRADE SEE NOTE 3

64. 2% MAX SLOPE

65. 6"X6" WIRE MESH

66. 10 GA.

67. 6" CONDUIT

68. 2" CONDUIT

69. 10'-0" MESH HEIGHT

70. 6"X6" CONCRETE BASE

71. 24" MIN.

72. 24" MIN.

73. 36" MESH HEIGHT

74. 12'-0"

75. 36" DIA. CONCRETE BASE

76. 15# FELT (2 LAYERS)

77. STD. GROUNDING PLATE

78. BASE COVER

79. 48" MIN.

80. FINISH GRADE SEE NOTE 3

81. 2% MAX SLOPE

82. 6"X6" WIRE MESH

83. 10 GA.

84. 6" CONDUIT
NOTES:
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. ANCHOR BOLT MINIMUM YIELD STRENGTH $F_y = 50$ KSI.
3. SURROUNDING SOIL MUST HAVE SOIL-BEARING PRESSURE $S_1$ OF 1500 PSF.
4. WRAP 20' OF #4 AWG BARE COPPER GROUNDING WIRE AROUND ENTIRE CAGE. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND CAGE AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
5. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND WIRE MESH FIRMLY TOGETHER.
6. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B C H L M N

SPECIFICATION REFERENCE

501 PORTLAND CEMENT CONCRETE
623 TRAFFIC SIGNALS & STREETLIGHTING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "L" FOUNDATION

DATE 9-14-00  DWG. NO. 722
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. WRAP 20' OF #4 AWG BARE COPPER GROUNDING WIRE AROUND ENTIRE CAGE. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND CAGE AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
3. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND SPIRAL FIRMLY TOGETHER.
4. 28 DAY STRENGTH - 4000 PSI MIN. ALL REINFORCING STEEL SHALL BE ASTM A615 GR 60.
5. MAXIMUM ALLOWABLE OVERTURNING MOMENT IS 180 FT-KIPS.
6. MAXIMUM ALLOWABLE TORSION IS 220 FT-KIPS.
7. THE FOUNDATION DESIGN SHOWN ASSUMES A NON-COHESIVE SOIL WITH A MINIMUM INTERNAL FRICTION ANGLE OF 30 DEGREES. IF ACTUAL SOIL CONDITIONS ARE LESSER QUALITY, THE FOUNDATION SHOULD BE DESIGNED FOR THE SPECIFIC SITE CONDITIONS.
8. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

BASE COVER

FINISH GRADE SEE NOTE 8

2% MAX SLOPE

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

2-1/4" X 93" X 9" A307 GRADE B BOLTS BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

FOR TYPE XX-B SIGNAL AND LUMINAIRE POLES, SEE STANDARD DRAWING NO. 810.

STD. GROUNDING PLATE PER NEC 250.52 & 250.53

15# FELT (2 LAYERS)

PORTLAND CEMENT CONCRETE

TRAFFIC SIGNALS & STREETLIGHTING

TYPE "M" FOUNDATION