

STANDARD
CONSTRUCTION
DETAILS

STREET LIGHTS

REVISED - OCTOBER 2012

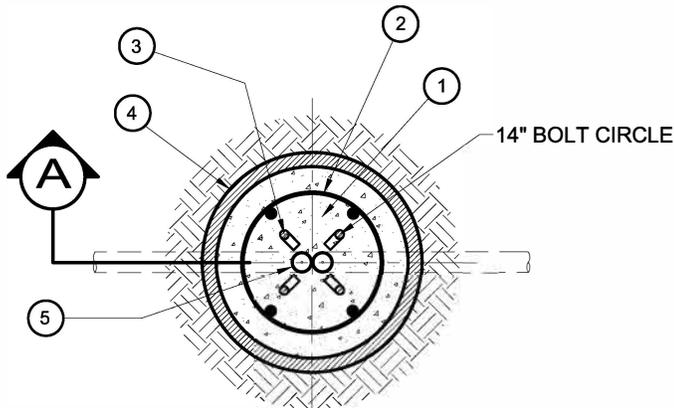


DEPARTMENT OF ENGINEERING

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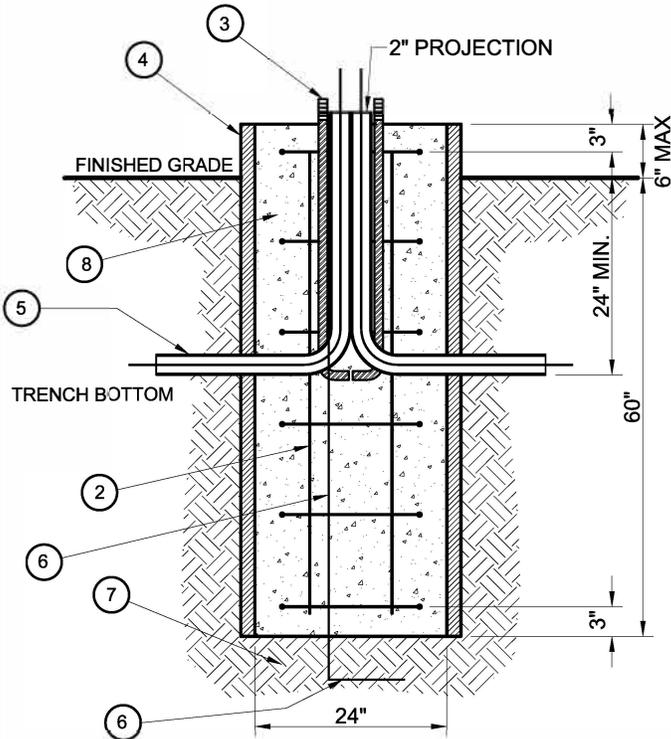
STREET LIGHTS

LIGHT POLE FOUNDATION	SD-SL01
LIGHT POLE	SD-SL02
LIGHT POLE WITH BREAKAWAY COUPLING	SD-SL03
PHOTO CELL, SWITCH BOX LOCATION, & GFI	SD-SL04



PLAN

SCALE N.T.S.



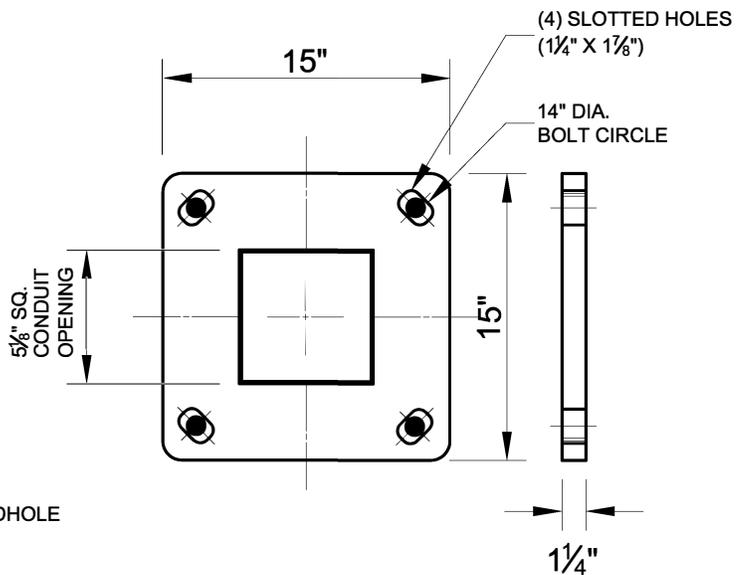
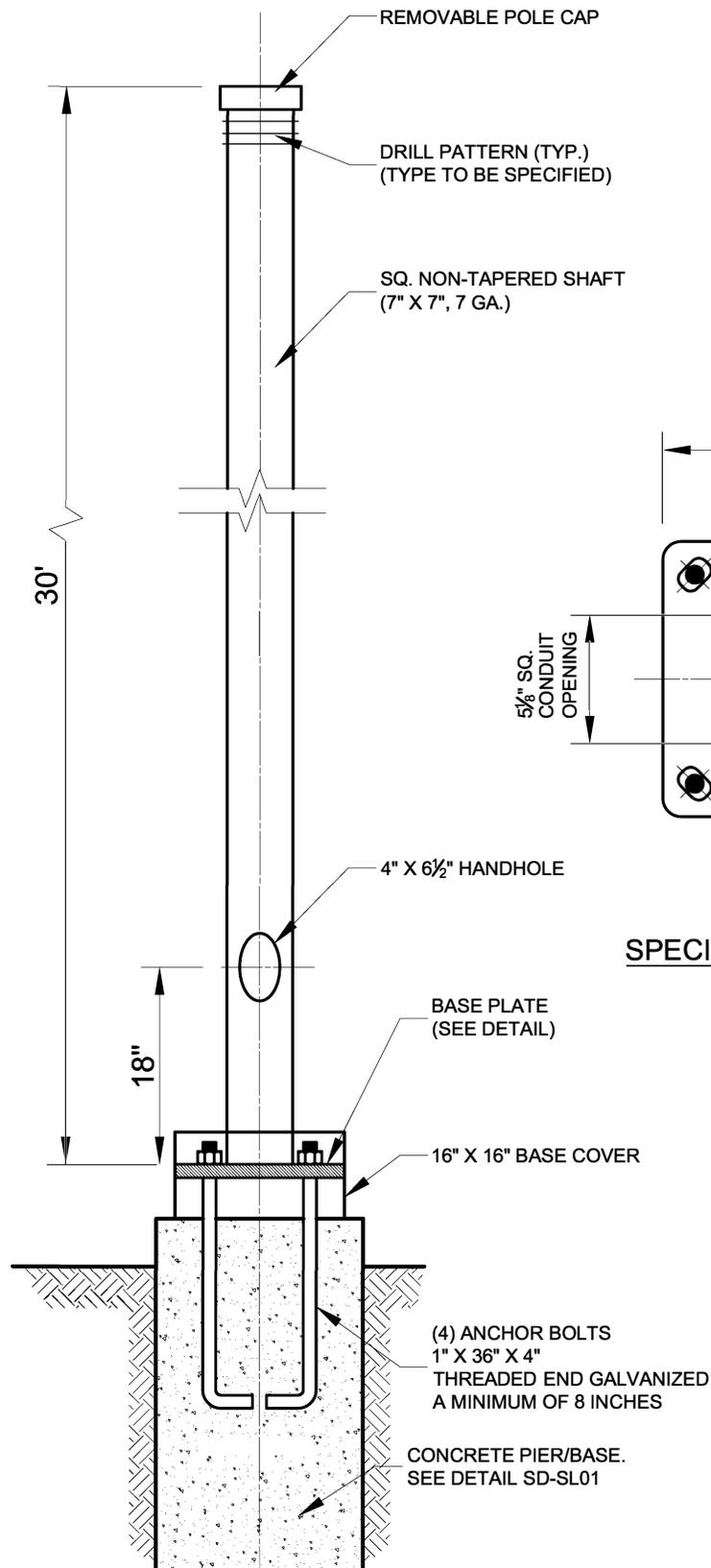
SECTION A

SCALE N.T.S.

NOTES

1. CONCRETE TO BE MIN 3000 PSI AT 28 DAYS. (5 SACK) MAX TOP OF FOUNDATION TO BE TROWLELED TO A FLAT AND LEVEL SURFACE. AVOID EXCESSIVE TROWELING. CONCRETE TO SET A MIN OF 7 DAYS BEFORE POLE INSTALLATION.
2. REBAR HOOPS ARE TIED BEGINNING 3' BELOW TOP OF CONCRETE FORM AND ARE REPEATED AT APPROXIMATE 1' INTERVALS TO BOTTOM OF FOUNDATION.
3. 1" ANCHOR BOLTS TO BE USED WITH 25 & 30' POLE. 1 1/4" ANCHOR BOLTS TO BE USED WITH 40' POLE WITH A PROJECTION OF 3" ON 25' & 30' SQUARE AND 3 1/2" ON 40' SQUARE AND ROULD POLES.
4. CONCRETE FORM OF SONOTUBE TO EXTEND TO BOTTOM OF TRENCH OR AS NEEDED.
5. PROVIDE MIN 24" GROUND WIRE PIGTAIL OUT OF CONCRETE FOR CONNECTION TO POLE.
6. A MIN OF 12' OF BARE #6 SD CU WIRE TO BE PLACED IN BOTTOM OF HOLE AND COVERED WITH 2' OF DIRT.
7. IF SOIL HAS BEEN DISTURBED, EXTEND FOUNDATION BY DEPTH OF DISTURBED SOIL.
8. NOT APPLICABLE FOR POLE HEIGHT GREATER THAN 40'.

ITEM	DESCRIPTION
1	#3 REBAR, 18"DIA HOOP, 3" OVERLAP
2	#5 REBAR, STRAIGHT, 60" LONG, 3" COVER
3	ANCHOR BOLT, GALV, 1" W/25 & 30' POLES AND 1 1/4" W40' POLES
4	CONCRETE FOUNDATION TUBE, 24" DIA
5	CONDUIT, PVC OR PEC (NOT IN FOUNDATION AUN)
6	WIRE, #6 COPPER, SOLID(SEE NOTE 6)
7	GROUND, POLE BUTT WIRE COIL(SEE NOTE 6)
8	CONCRETE(SEE NOTE 1)



SPECIAL BASE PLATE DETAIL

SCALE : 1' = 10'

SCALE : NTS

MATERIAL SPECIFICATION

POLE SHAFT-ASTM A-500, 50 K.S.I. MINIMUM YIELD.
 BASE PLATE-ASTM A-36, 36 K.S.I. MINIMUM YEILD.
 HANDHOLE RING-ASTM A-36, 36 K.S.I. MINIMUM YEILD.
 ANCHOR BOLT-ASTM F1554, 55 K.S.I. MINIMUM YEILD.

ENTIRE STANDARD SHALL HAVE A THERMOSET
 POLYESTER POWDER COATING.
 FINISH SHALL BE MEDIUM BRONZE.



CITY OF ALLEN
 DEPARTMENT OF ENGINEERING

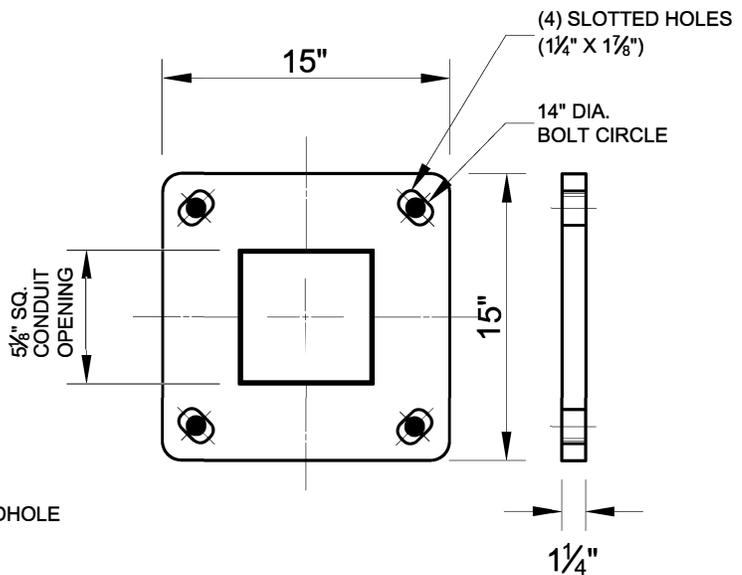
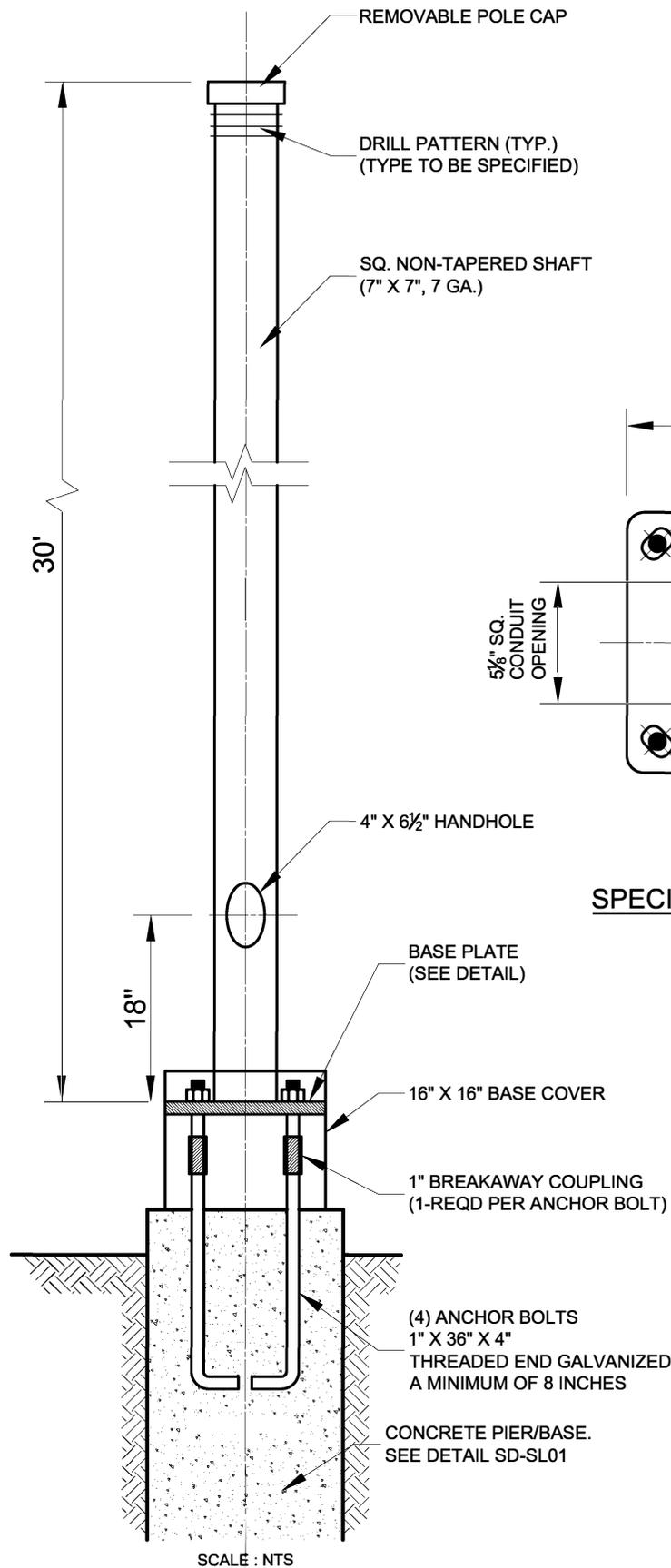
LIGHT POLE

STANDARD CONSTRUCTION DETAILS
 STREET LIGHT

DATE:
 JULY 2010

REV DATE:

SHEET :
 SD-SL02



SPECIAL BASE PLATE DETAIL
SCALE : 1' = 10'

MATERIAL SPECIFICATION

POLE SHAFT-ASTM A-500, 50 K.S.I. MINIMUM YIELD.
 BASE PLATE-ASTM A-36, 36 K.S.I. MINIMUM YEILD.
 HANDHOLE RING-ASTM A-36, 36 K.S.I. MINIMUM YEILD.
 ANCHOR BOLT-ASTM F1554, 55 K.S.I. MINIMUM YEILD.

ENTIRE STANDARD SHALL HAVE A THERMOSET
 POLYESTER POWDER COATING.
 FINISH SHALL BE MEDIUM BRONZE.

SCALE : NTS



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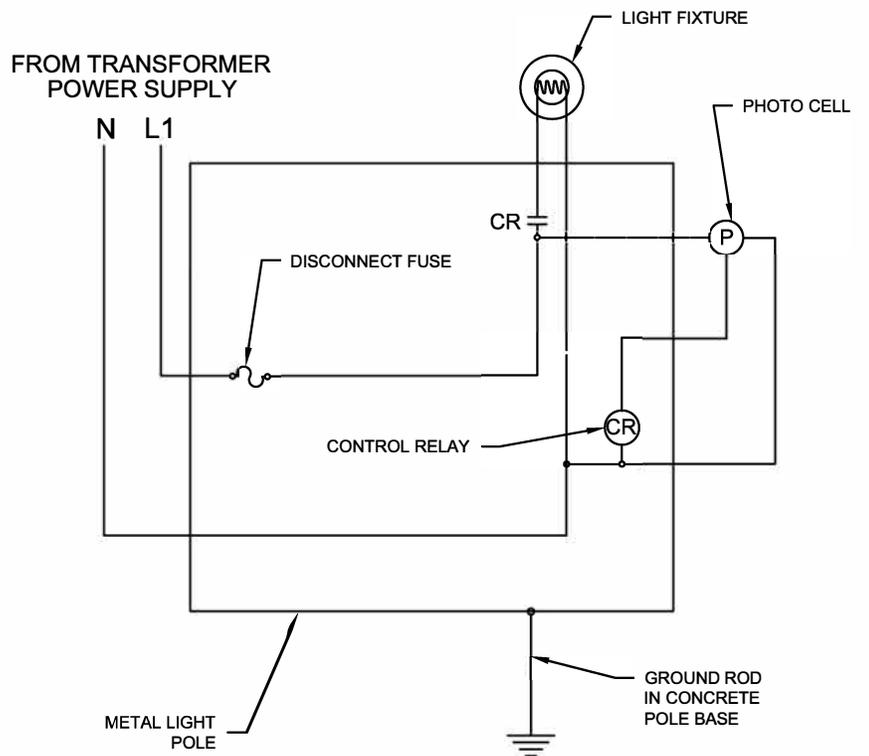
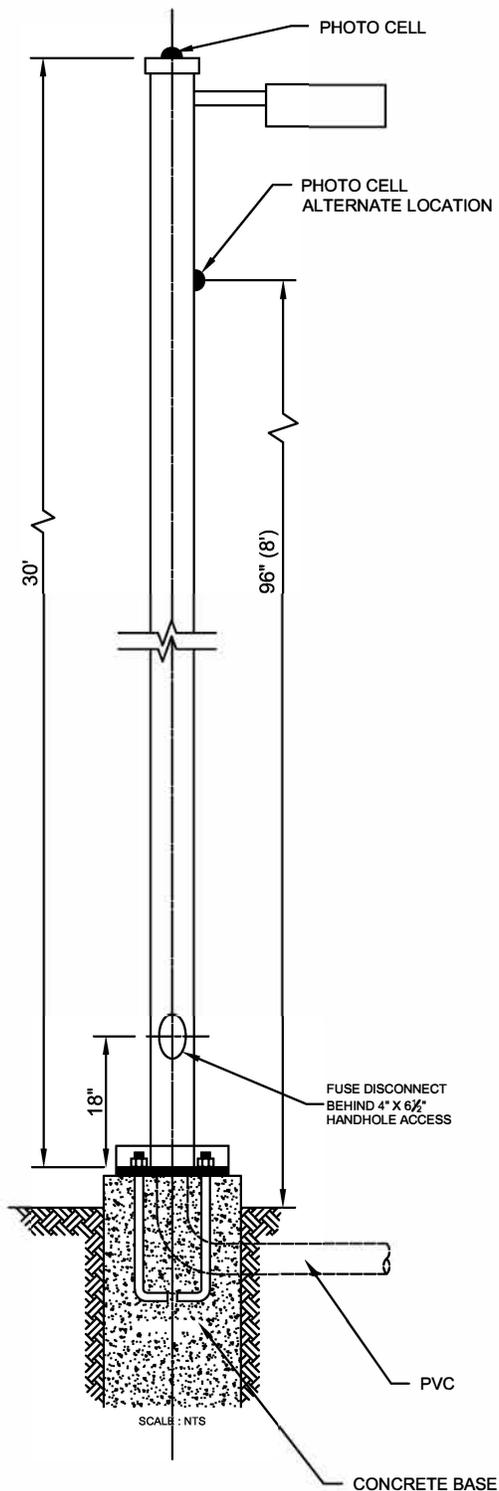
**LIGHT POLE
WITH BREAKAWAY COUPLING**

STANDARD CONSTRUCTION DETAILS
STREET LIGHT

DATE:
JULY 2010

REV DATE:

SHEET :
SD-SL03



LIGHTING CIRCUIT DETAIL FROM TRANSFORMER TO POLE



CITY OF ALLEN
DEPARTMENT OF ENGINEERING

**PHOTO CELL,
FUSE DISCONNECT,
& GROUND FAULT INTERRUPTER**

STANDARD CONSTRUCTION DETAILS
STREET LIGHT

DEC. 2011

REV DATE:
OCT. 2012

SHEET :
SD-SL04