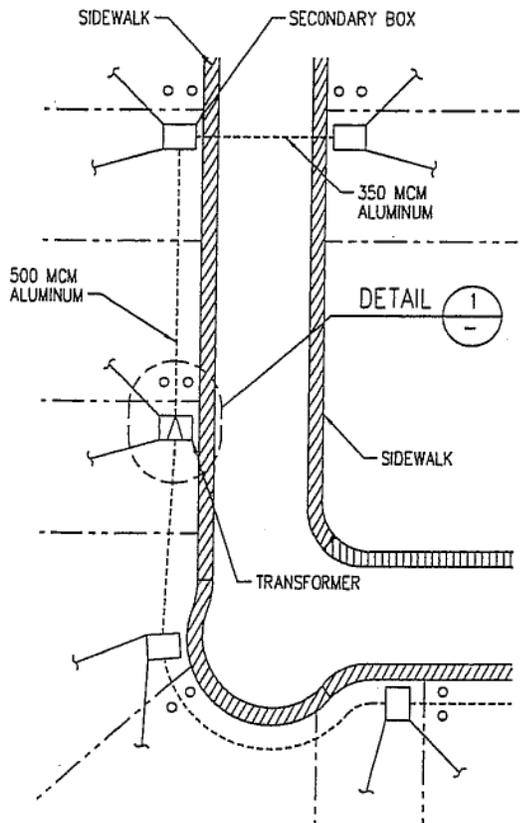


DETAIL

SCALE NONE



NOTES

1. UTILITY TRENCH WILL BE 1'-0" FOOT BEHIND SIDEWALK.
2. POWER BOXES WILL BE WITHIN 6" OF SIDEWALK.
3. POWER BOXES AND PHONE/CABLE TV BOX WILL BE WITHIN 1'-0" OF PROPERTY LINE.
4. POWER BOXES WILL BE ON ONE PROPERTY. PHONE/CABLE TV WILL BE PLACED ON ADJACENT PROPERTY.
5. UTILITY TRENCH WILL BE ON THE NORTH AND WEST SIDE OF STREET EXCEPT FOR CROSSINGS.
6. CROSSING SHALL RUN AT A 90° WITH THE ROAD.
7. WATER METERS WILL BE LOCATED ON ALTERNATE LOT LINES FROM POWER, PHONE AND CABLE TV WHERE POSSIBLE.
8. ALLOWABLE WIRE SIZE AND CONNECTION;

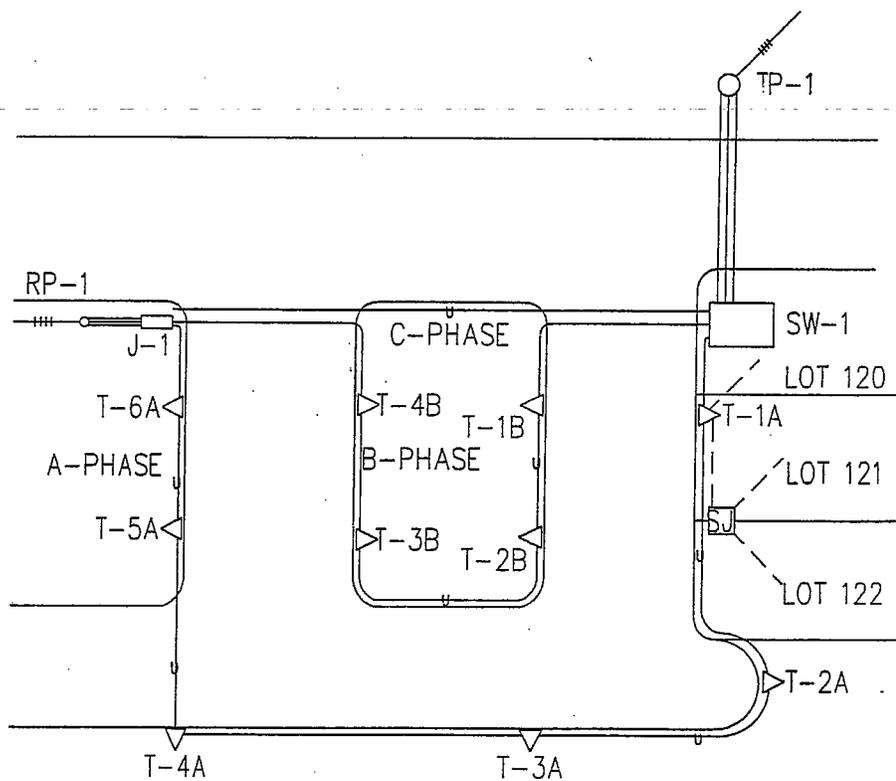
SIZE	CONNECTIONS (MAX)
4/0	1
350	2
500	4

21HDET21.DWG

TAGGING SYSTEM

LEGEND

- SW- SWITCH
- TP- TRANSITION POLE (FEEDS FROM OVERHEAD TO UNDERGROUND)
- RP- RISER POLE (FEEDS FROM UNDERGROUND TO OVERHEAD)
- J- PRIMARY JUNCTION
- SJ- SECONDARY JUNCTION

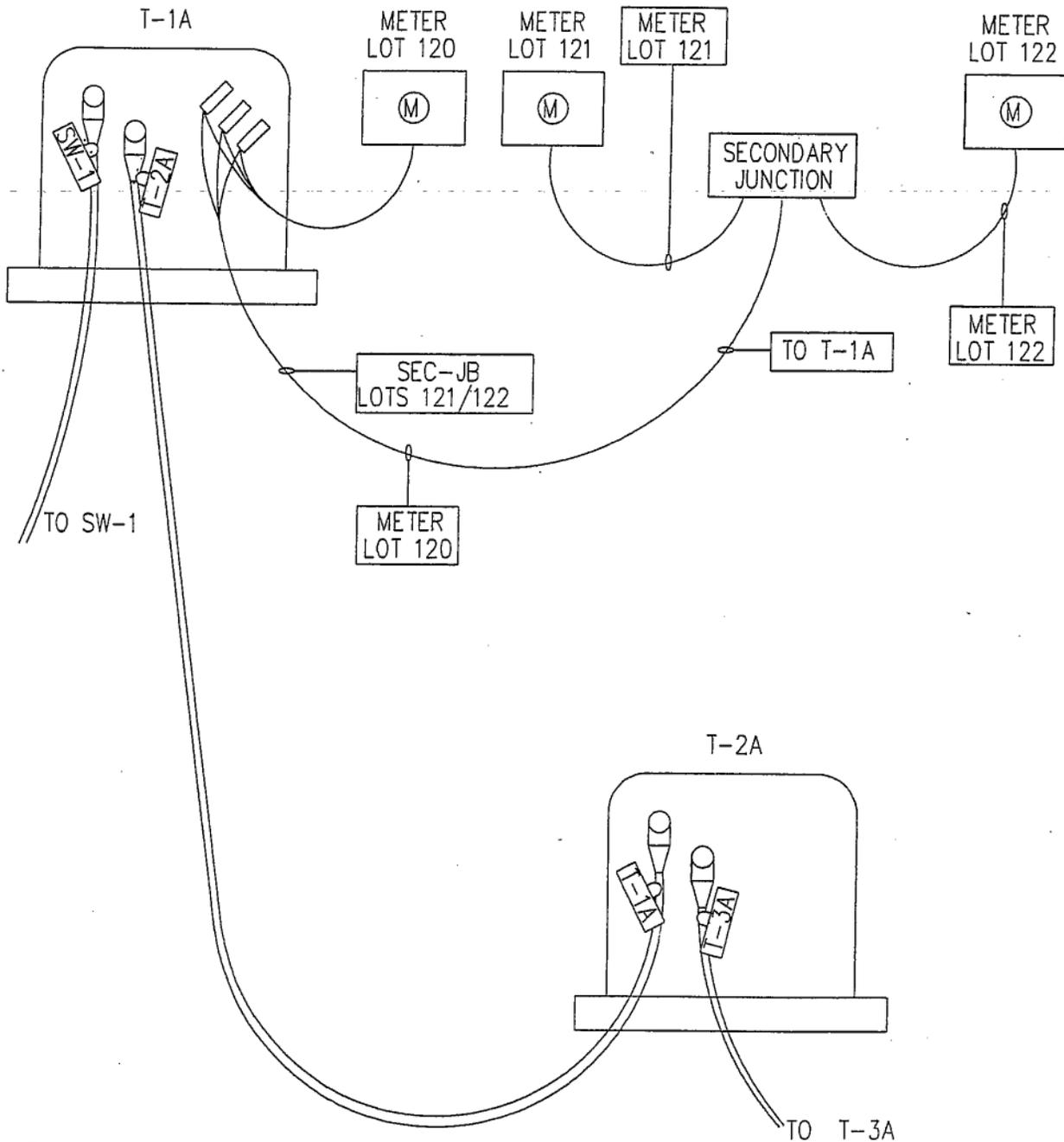


NOTES

1. CONTRACTORS TO PLACE STICK-ON NUMBERS ON OUTSIDE OF TRANSFORMERS, SWITCHES AND PRIMARY JUNCTIONS (NUMBERS TO BE PROVIDED BY CITY).
2. TP AND RP ARE TO BE TAGGED WITH METAL NUMBERS. (LIKE THOSE USED FOR HOUSE ADDRESSES)

21HDET9.DWG

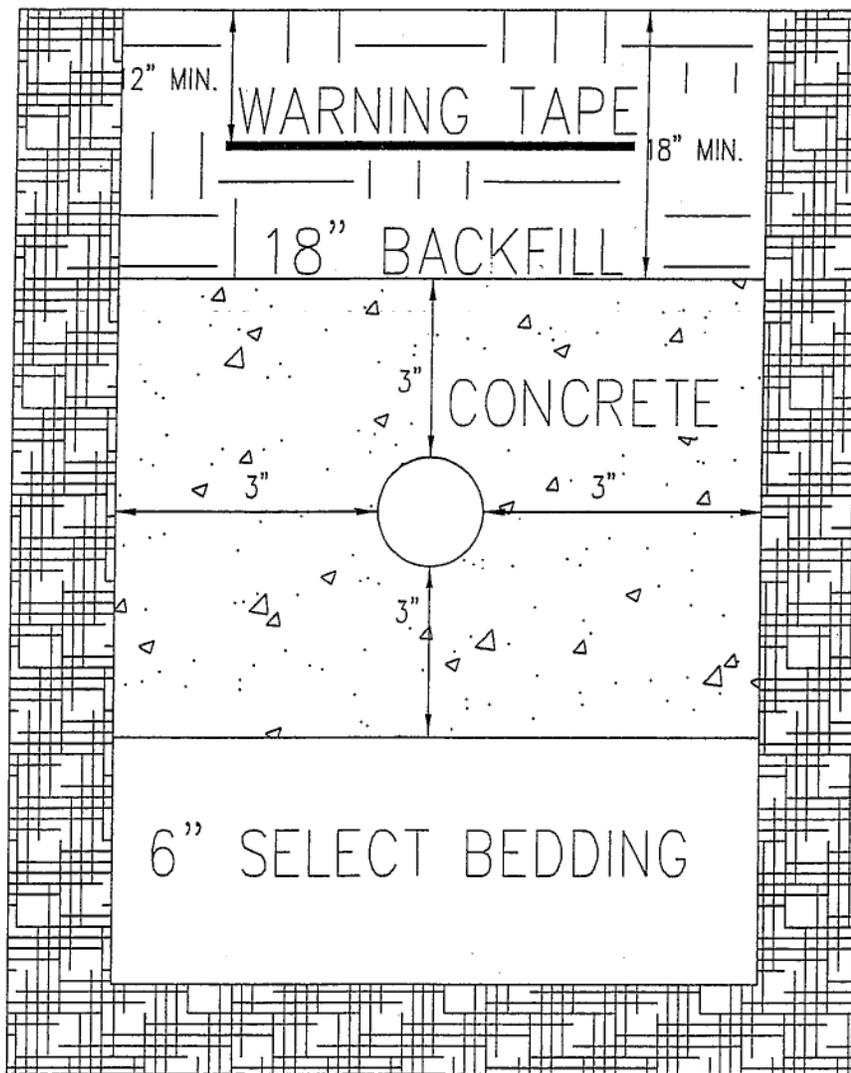
TAGGING SYSTEM



* TAGS TO INDICATE WHERE THE OTHER END OF CONDUCTOR TERMINATES.

21HDET18.DWG

CONCRETE ENCASED CONDUIT

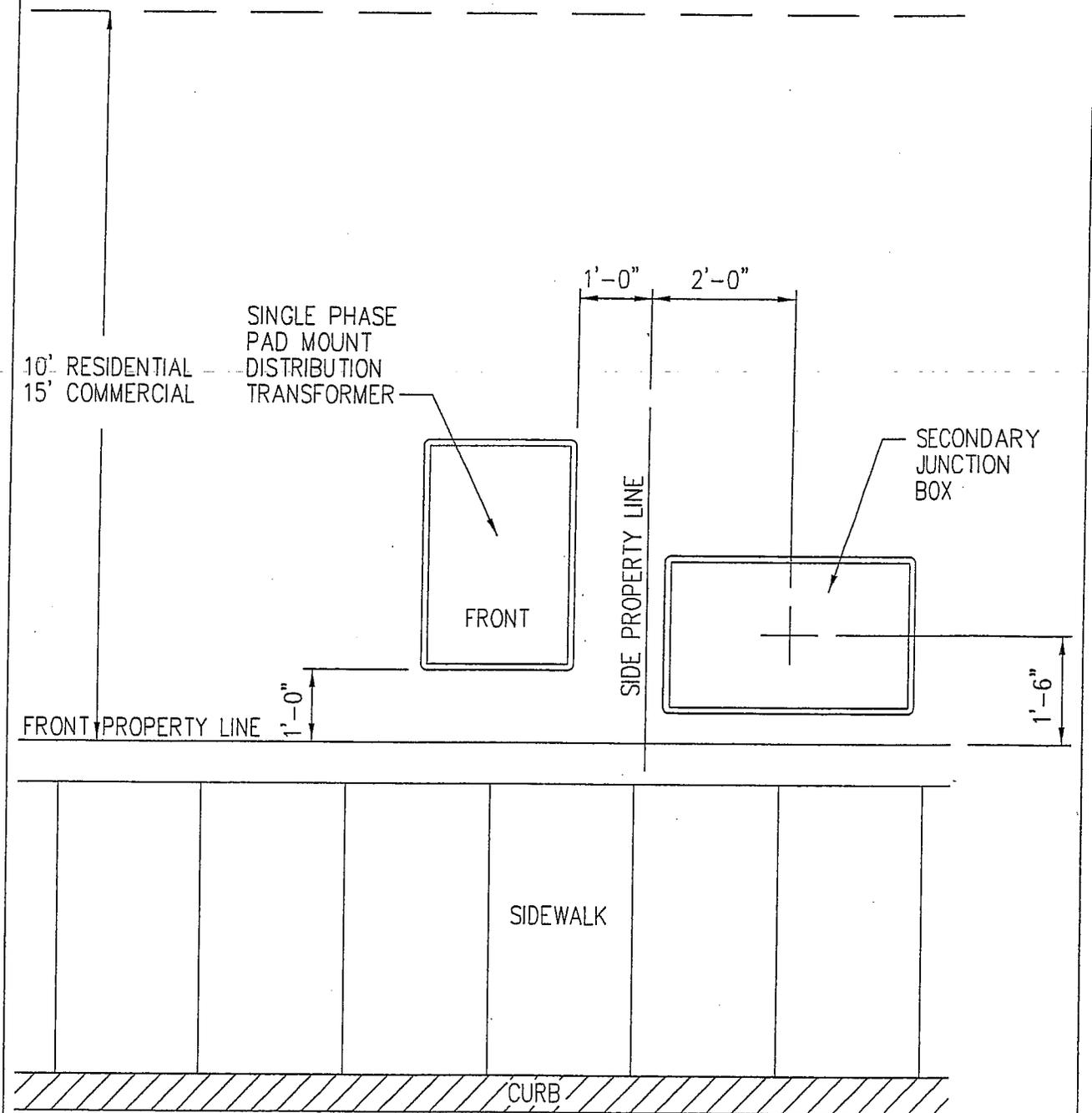


NOTE

WARNING TAPE SIX (6") RED SHALL BE INSTALLED TWELVE INCHES (12") BELOW FINAL GRADE FOR THE LENGTH OF THE ENTIRE TRENCH.

21HDET17.DWG

SINGLE PHASE PAD MOUNT TRANSFORMER AND SECONDARY JUNCTION BOX FRONT LOT LINE CONSTRUCTION

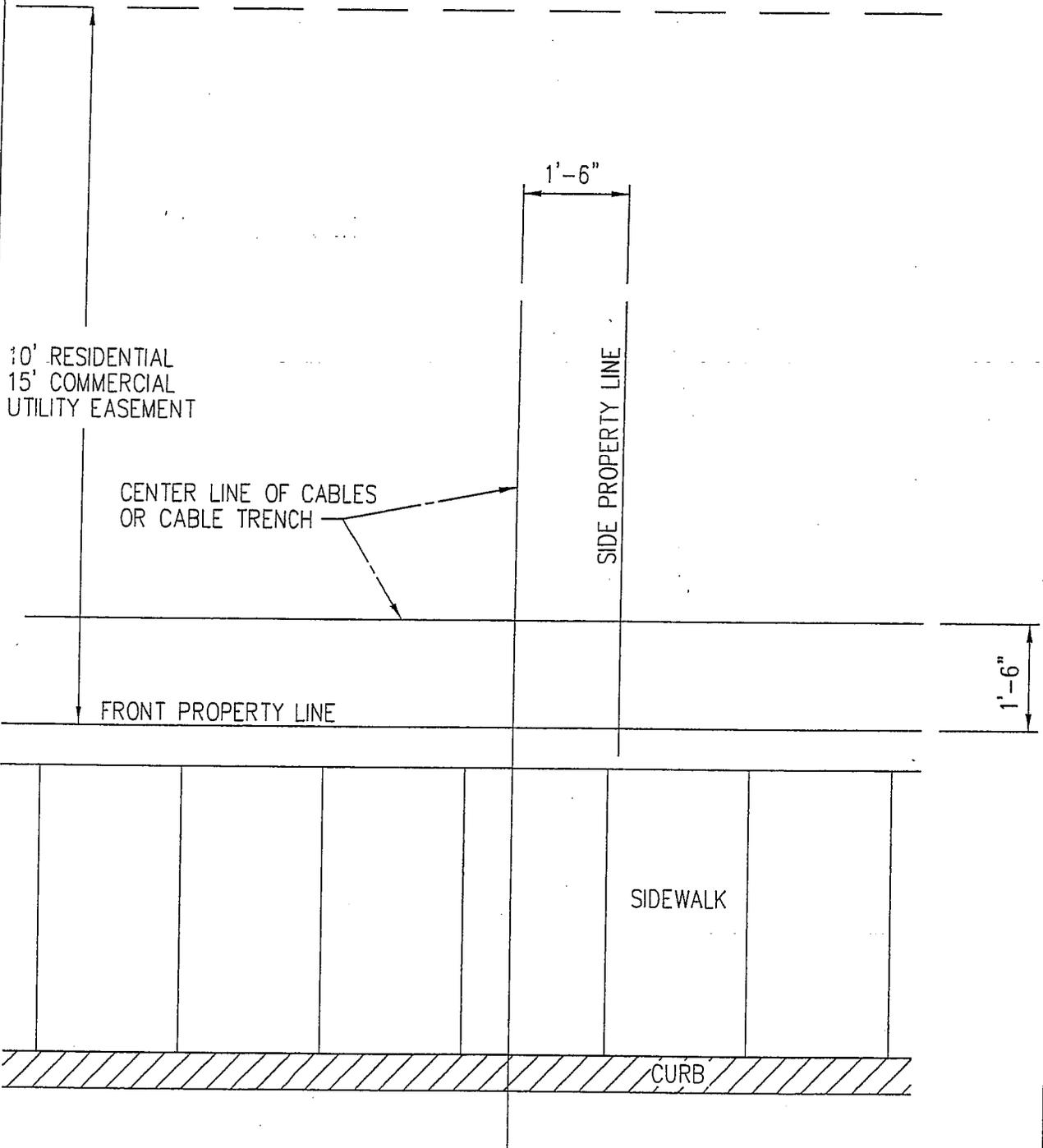


NOTES

1. IF SIDEWALK DOES NOT EXIST OR IS NOT PLANNED FOR, PLACE EQUIPMENT AS THOUGH THE CURB WERE EDGE OF SIDEWALK ON THE ABOVE.

21HDET2.DWG

UNDERGROUND CABLES FRONT LOT LINE CONSTRUCTION

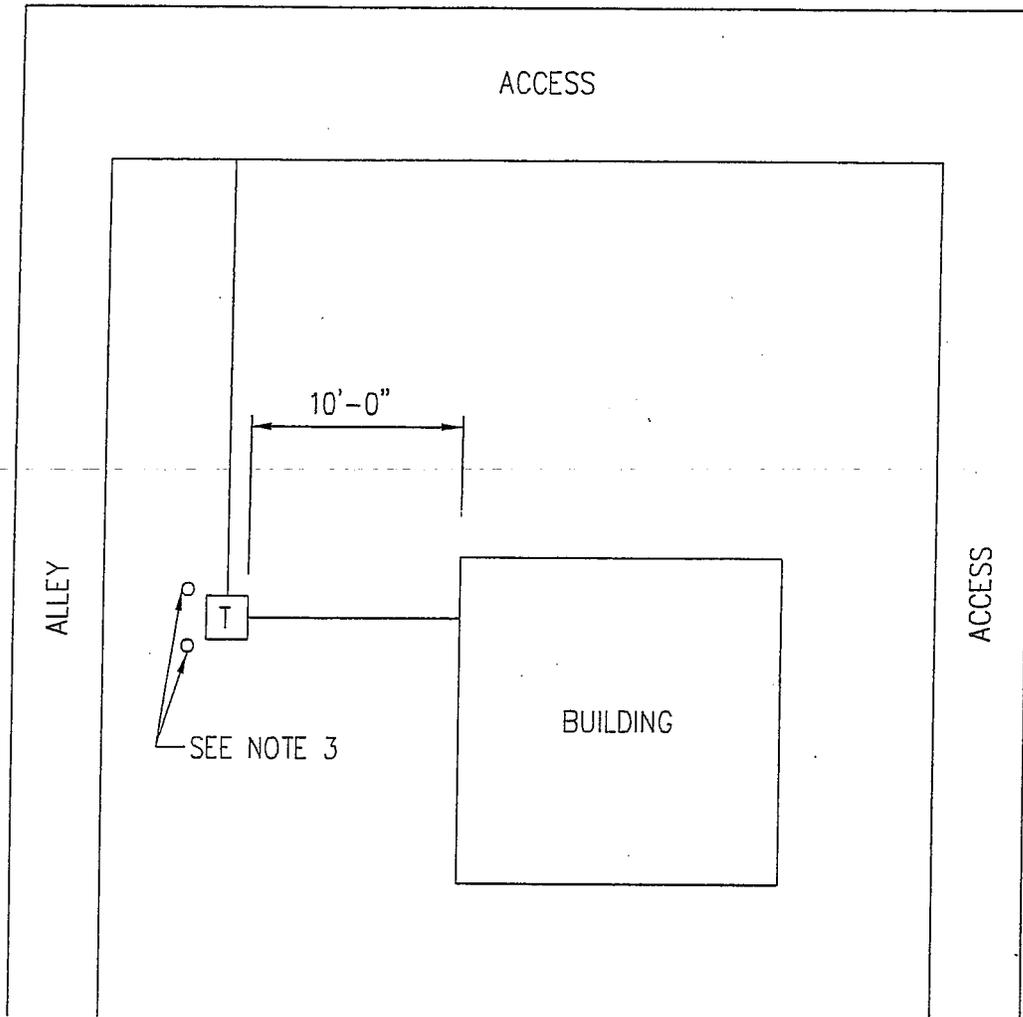


NOTES

1. IF SIDEWALK DOES NOT EXIST OR IS NOT PLANNED FOR, PLACE EQUIPMENT AS THOUGH THE CURB WERE EDGE OF SIDEWALK ON THE ABOVE.

21HDET3.DWG

COMMERCIAL BUILDINGS

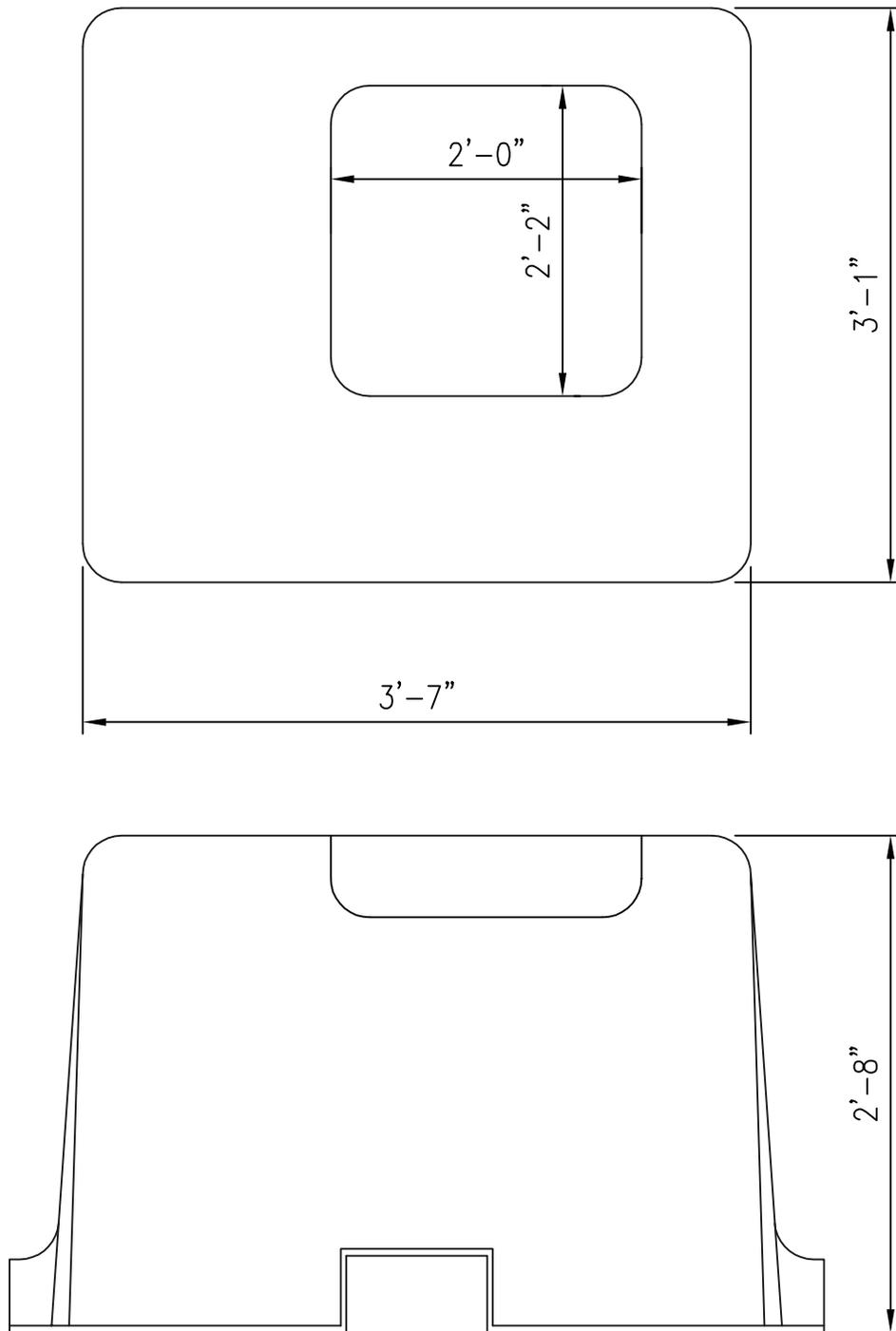


NOTES

1. URG POWER DESIGN AND INSTALLATION FOR COMMERCIAL BUILDING DEVELOPMENTS SHALL BE PERFORMED TO FRONT LOT SPECIFICATIONS AS MUCH AS POSSIBLE, SEE DRAWING LABELED "UNDERGROUND CABLES FRONT LOT LINE CONSTRUCTION" OF THESE SPECIFICATIONS.
2. IF EQUIPMENT CAN NOT BE PLACED ALONG FRONT LOT OR ACCESS WAYS, IT SHALL BE PLACED ACCORDING TO THE
3. IF TRANSFORMER IS PLACED IN A DRIVEWAY OR NEAR A PASSAGE, BOLLARDS OR PILEON SHALL BE PLACED AS SHOWN.

21HDET4.DWG

TRANSFORMER BOX PADS

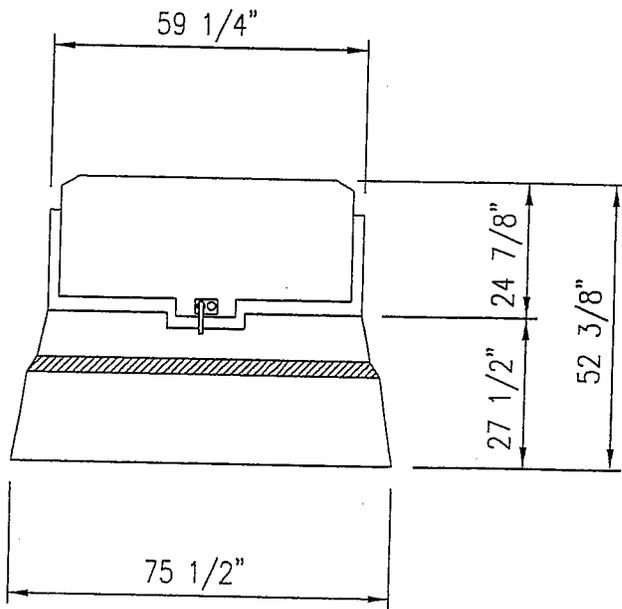
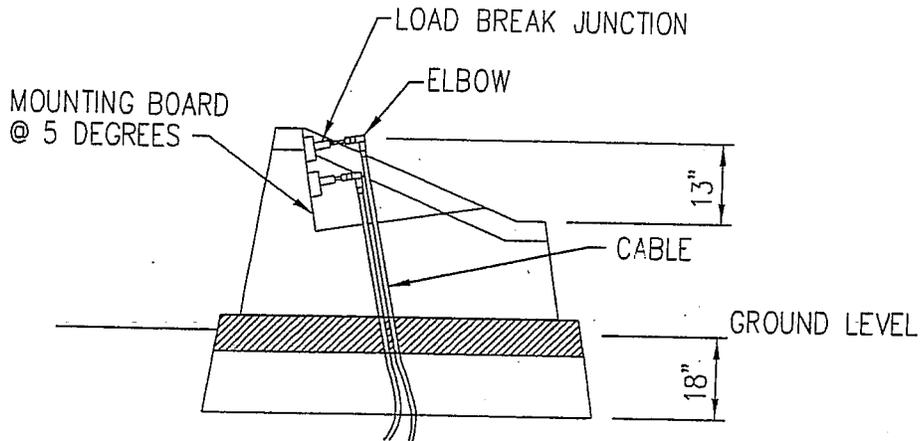


SPECIFICATIONS

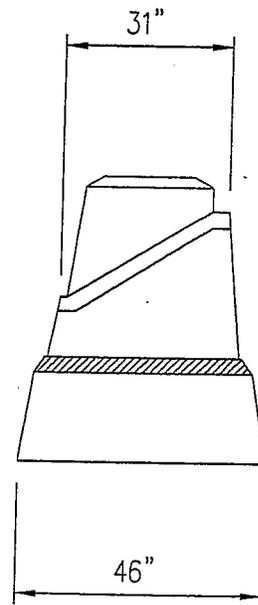
1. CONVEX SIDES WITH ONE WEDGE SUPPORT FOR ADDED STRENGTH.
2. REINFORCED CABLE-CONDUIT ENTRANCE.
3. CORROSION-RESISTANT THREADED INSERTS ARE PROVIDED FOR COVER OR EQUIPMENT MOUNTING.
4. NORDIC CBP-37-43-24I-26X24.
5. TOP WITH TWO WEDGE SUPPORTS FOR ADDED STRENGTH.

SECTIONALIZING CABINET

NORDIC-ND-350



FRONT VIEW

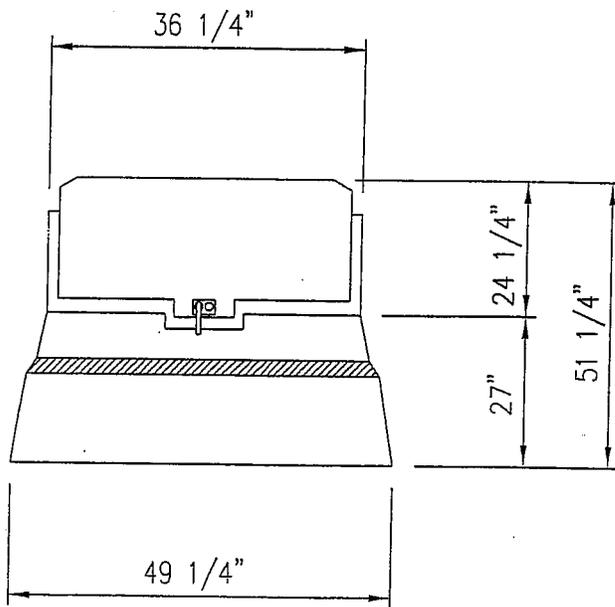
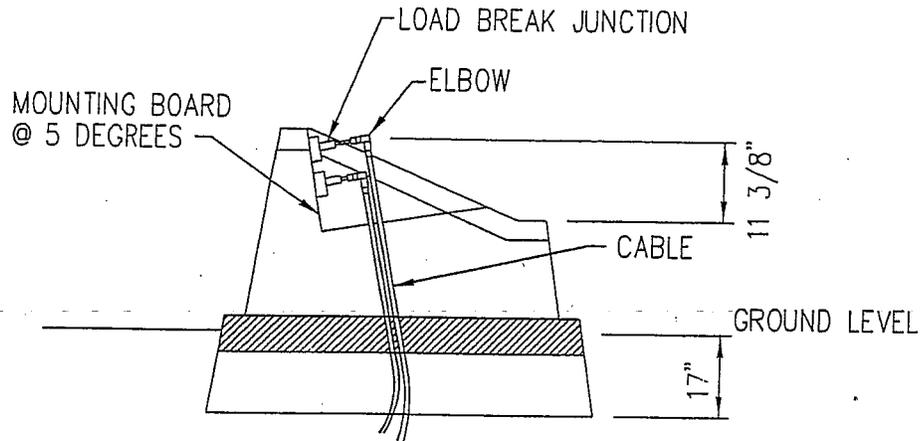


SIDE VIEW

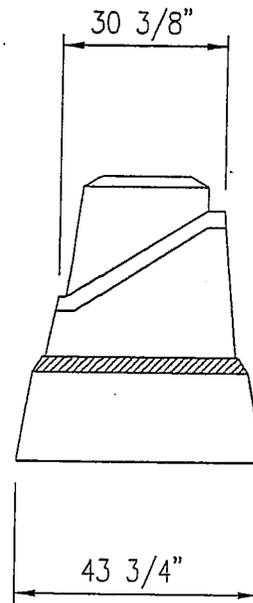
21HDET15.DWG

SECTIONALIZING CABINET

NORDIC-ND-155



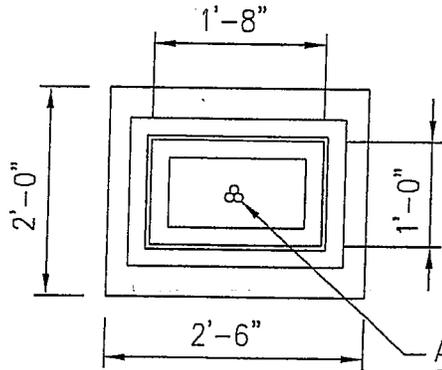
FRONT VIEW



SIDE VIEW

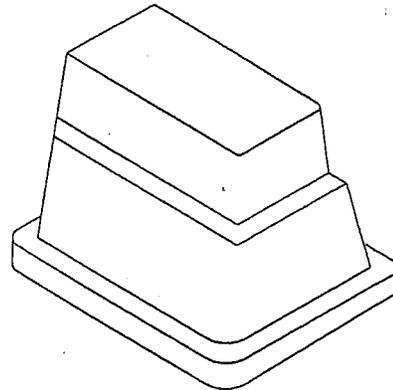
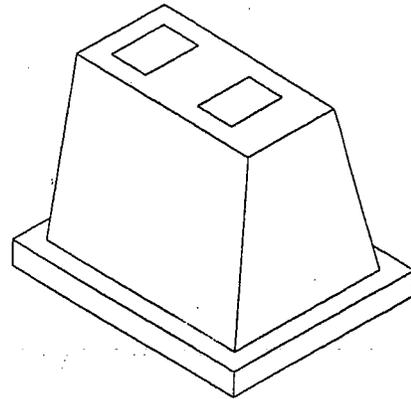
21HDET16.DWG

SECONDARY JUNCTION BOX

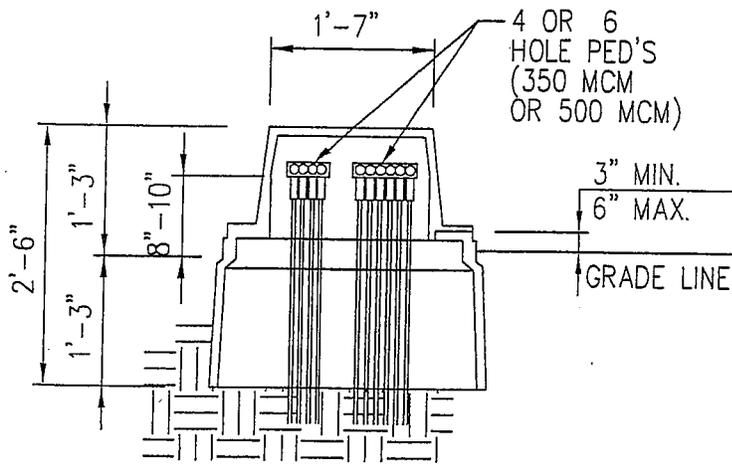


TOP VIEW

ALL CONDUITS SHALL BE IN CENTER OF SECONDARY JUNCTION BOX.



PENCELL-AG 20 HDX



SIDE VIEW

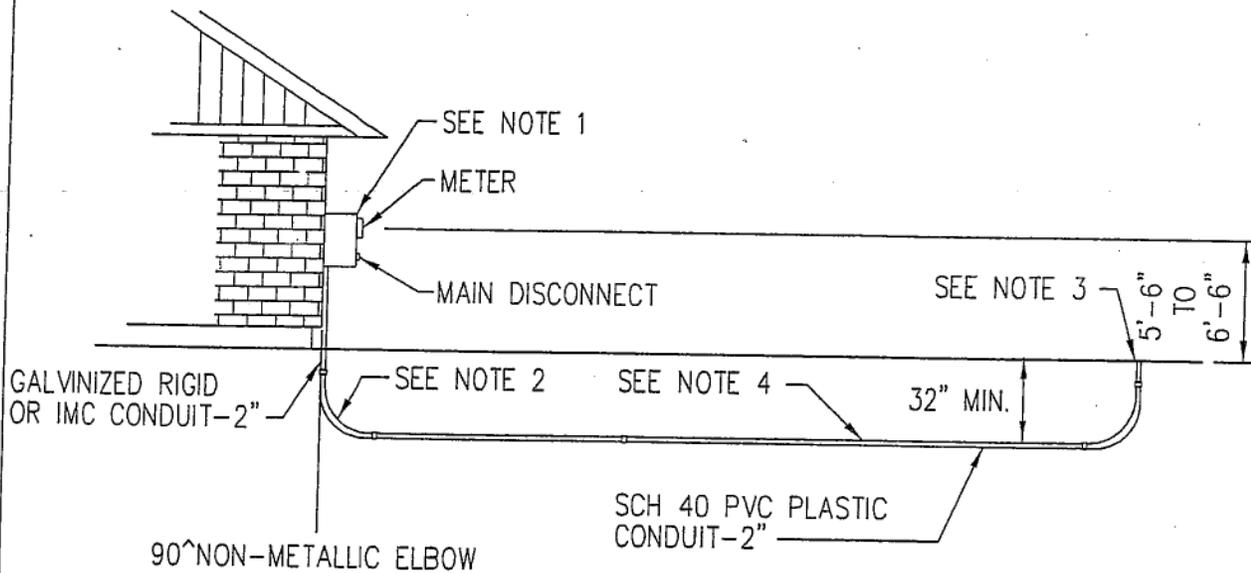
NOTE

THESE SECONDARY JUNCTION BOXES WILL BE PENCELL AG-20-HDX (PEDESTAL BOTH UPPER AND LOWER UNITS).

21HDET20.DWG

IN CONDUIT SERVICE REQUIREMENTS RESIDENTIAL

PREFERRED

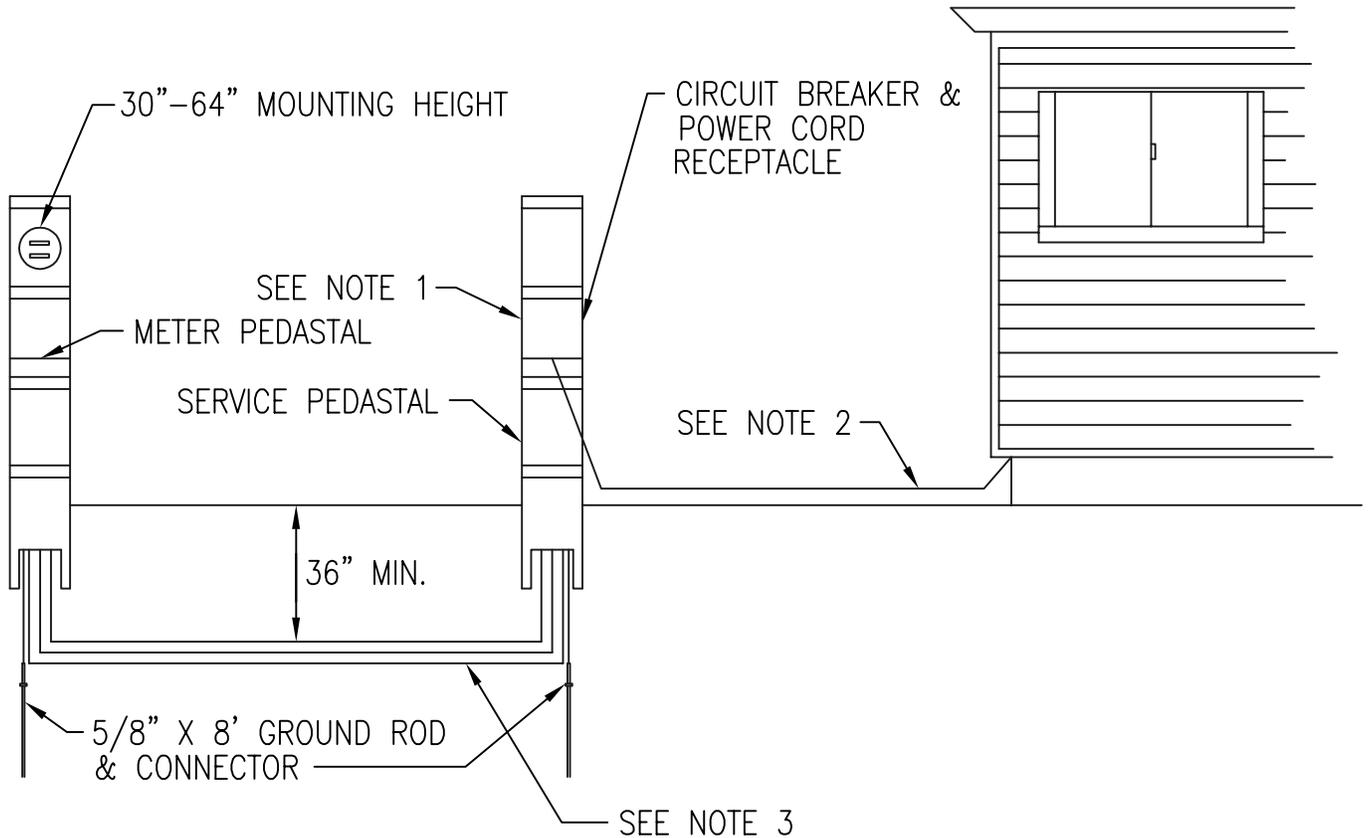


NOTES

1. METER MOUNTING PROVISION ONLY. MAIN DISCONNECTING MEANS REQUIRED ELSEWHERE.
2. MINIMUM RADIUS OF BEND EIGHTEEN INCHES (18").
3. SERVICE CONDUCTORS TO EXTEND FROM THE METER MOUNTING PROVISION TO THE END OF THE CONDUIT. IN ADDITION, A 5' LENGTH OF CABLE SHALL BE LEFT BEYOND THE END OF THE CONDUIT FOR THE CITY POWER DEPARTMENT TO MAKE ITS CONNECTIONS. CABLE ENDS TO BE SEALED.
4. PLASTIC OR IMC CONDUIT-2", CONDUIT TO BE CONTINUOUS FROM THE END OF THE ELBOW ON THE SERVICE RISE TO WITHIN 12" OF THE SECONDARY JUNCTION BOX OR TRANSFORMER.
5. METER SHALL BE PLACED AT THE BUILDING'S CLOSEST LOCATION TO THE TRANSFORMER APPROVED BY THE POWER DEPARTMENT.

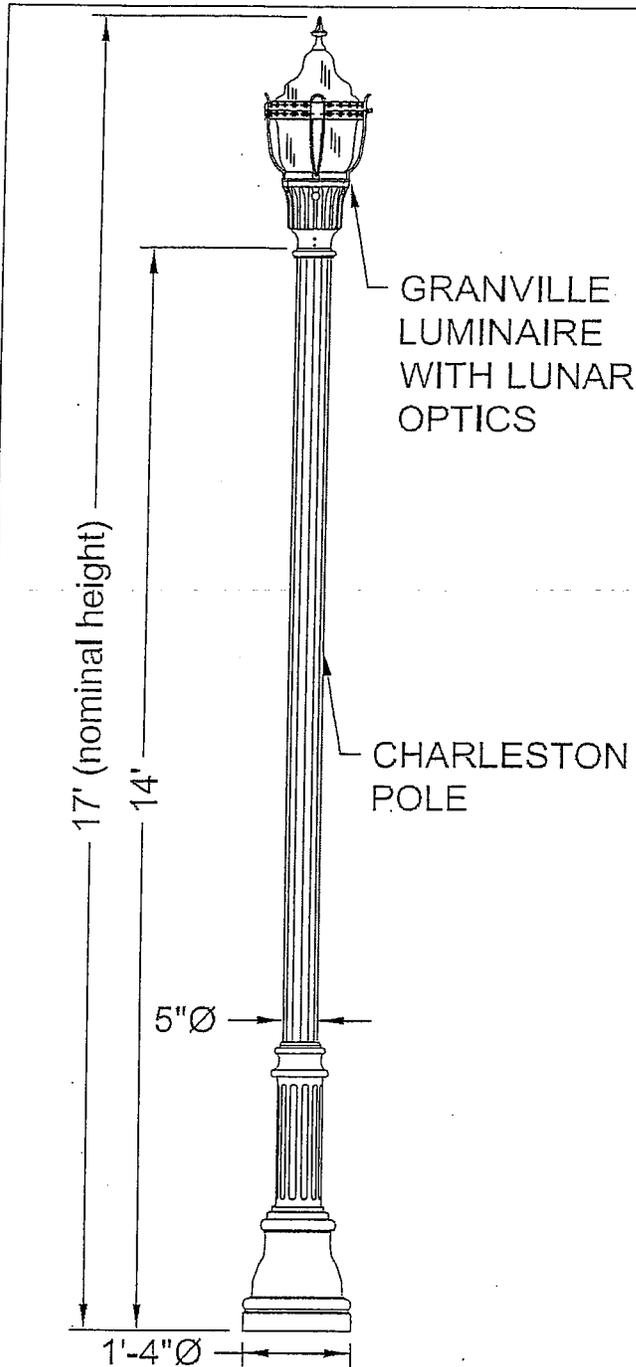
21HDET14.DWG

SERVICE REQUIREMENTS—MOBILE HOMES & TRAILERS



NOTES

1. ALL METAL PARTS (BOXES, CONDUIT, ETC.) SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
2. TO BE INSTALLED PER BUILDING CODE REQUIREMENT.
3. GROUNDING TO BE INSTALLED PER BUILDING CODE REQUIREMENT.
4. WIRE SIZE AND LUGS IN PEDESTAL ARE TO BE RATED TO ACCOMMODATE TOTAL AMPS OF SYSTEM.



Specifications

POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design. The shaft shall be 5"Ø fluted. The post shall be Holophanes' catalog number CH14F5/16-CA/DG.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS The post shall be 14'-0" in height with a 16" diameter x 44" tall base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 10" to 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

LUMINAIRE DESCRIPTION The Utility Granville is designed for ease of maintenance with the plug-in electrical module common to each of the luminaires in Holophane's Utility Luminaire Series. The traditional acorn shaped luminaire, while reminiscent of the 1920's, contains a precision optical system that maximizes post spacings while maintaining uniform illumination.

For complete specifications see US-2586

NOTE: Pole to be Standard Green and Lunar Optics Shield required.

Catalog #'s:

CH14F5/16-CA/DG - Gvu10DMH12NRSG H AOL2008



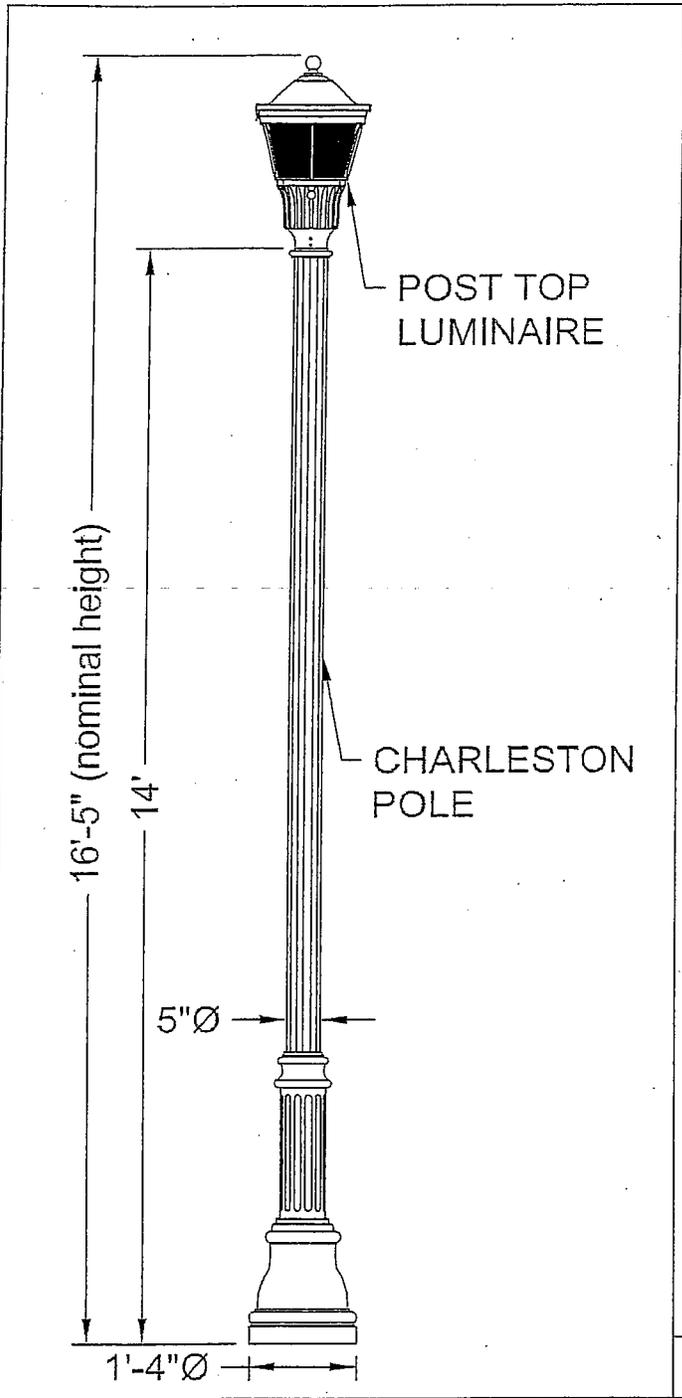
Hurricane City
Hurricane City, UT

ORDER #:	TYPE:	DRAWING #:
REVISION: 3	REVISION DATE: 10-06-05	TSG 000320
DRAWN: ACH	ORIGIN DATE: 06-16-05	PAGE: 2

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF MEASUREMENT MAY BE IMPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND OPEN EXPRESS CONSENT THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

21HDET29.VSD

DR-21A



Specifications

POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design. The shaft shall be 5"Ø fluted. The post shall be Holophanes' catalog number CH14F5/16-CA/DG.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS The post shall be 14'-0" in height with a 16" diameter x 44" tall base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 10" to 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

LUMINAIRE DESCRIPTION The Utility Post Top is designed for ease of maintenance with the plug-in electrical module common to each of the luminaires in Holophane's utility Luminaire Series. A precision optical system maximizes post spacings while maintaining uniform illumination. For complete specifications see US-2583

NOTE: Pole to be Standard Green with cut-off optics required.

Catalog #'s:
CH14F5/16-CA/DG - PTU10DMH12NG3N H C AOL2008

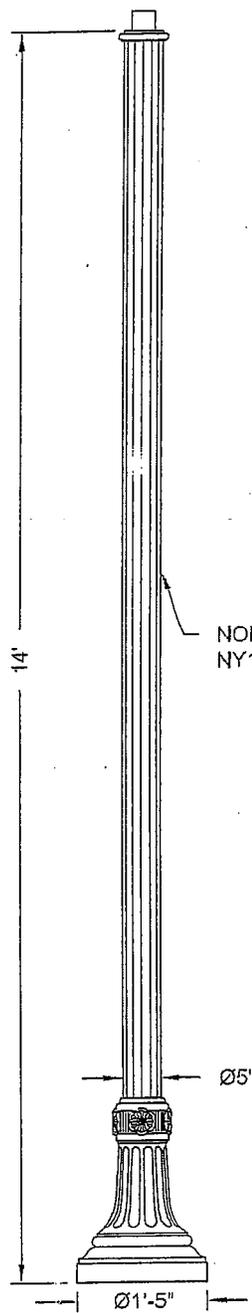


Hurricane City Hurricane City, UT

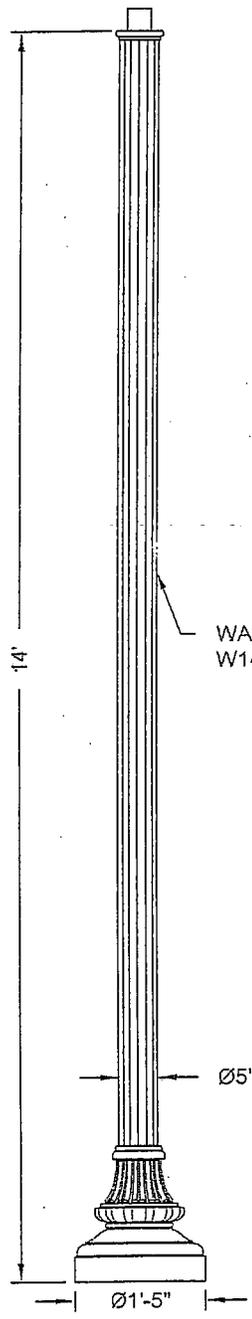
ORDER #:	TYPE:	DRAWING #:
REVISION: 3	REVISION DATE: 10-06-05	TSG 000320
DRAWN: ACH	ORIGIN DATE: 06-16-05	PAGE: 1 of 2

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21HDET26.VSD



NORTH YORKSHIRE POST
NY14F5/17-CA/XX



WADSWORTH POST
W14F5/17-CA/XX



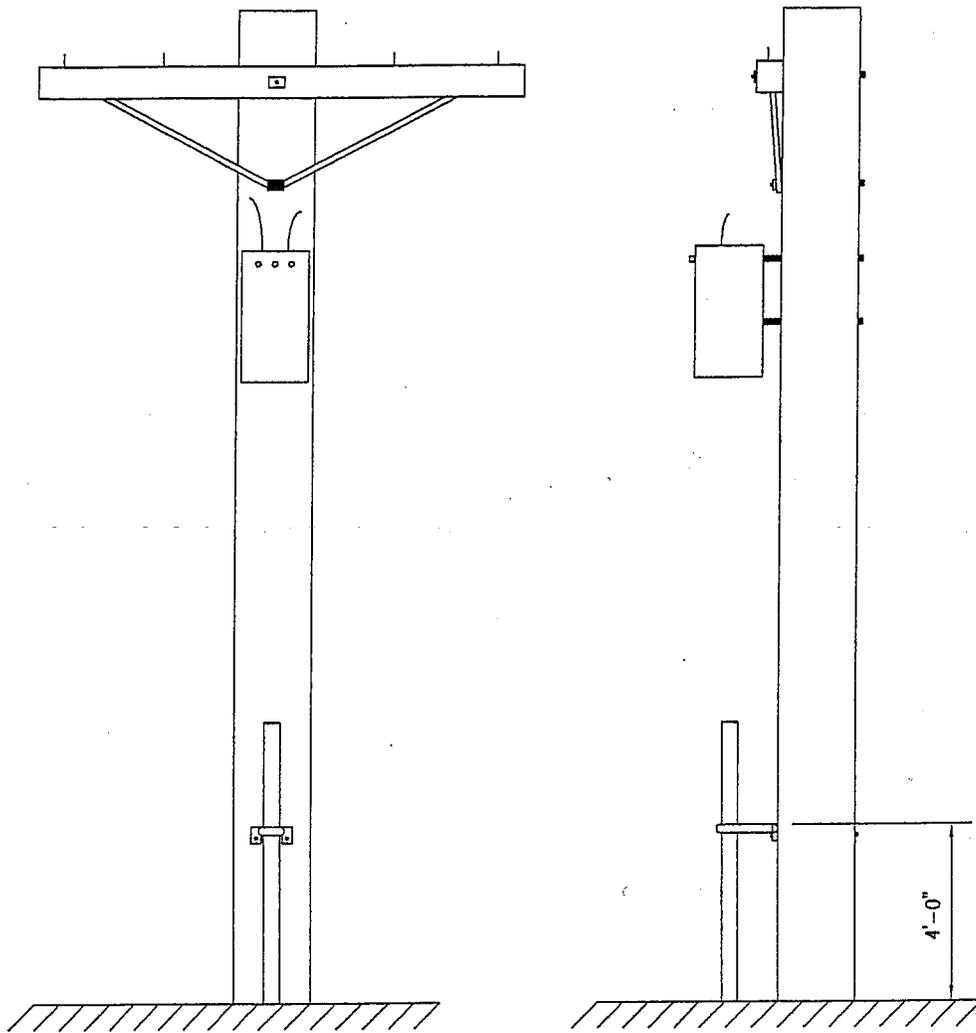
North Yorkshire and Wadsworth
Ø17" Bases

ORDER #:	TYPE:	DRAWING #:
REVISION:	REVISION DATE:	TSG 000680
DRAWN: ACH	ORIGIN DATE: 10-06-05	PAGE: 1 of 1

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21HDET28.VSD

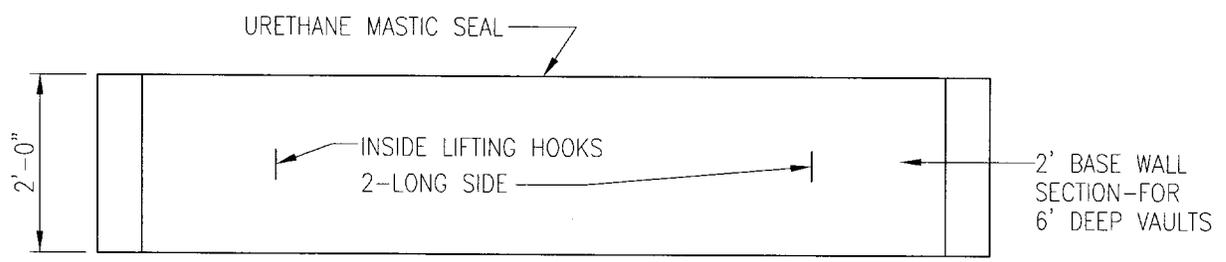
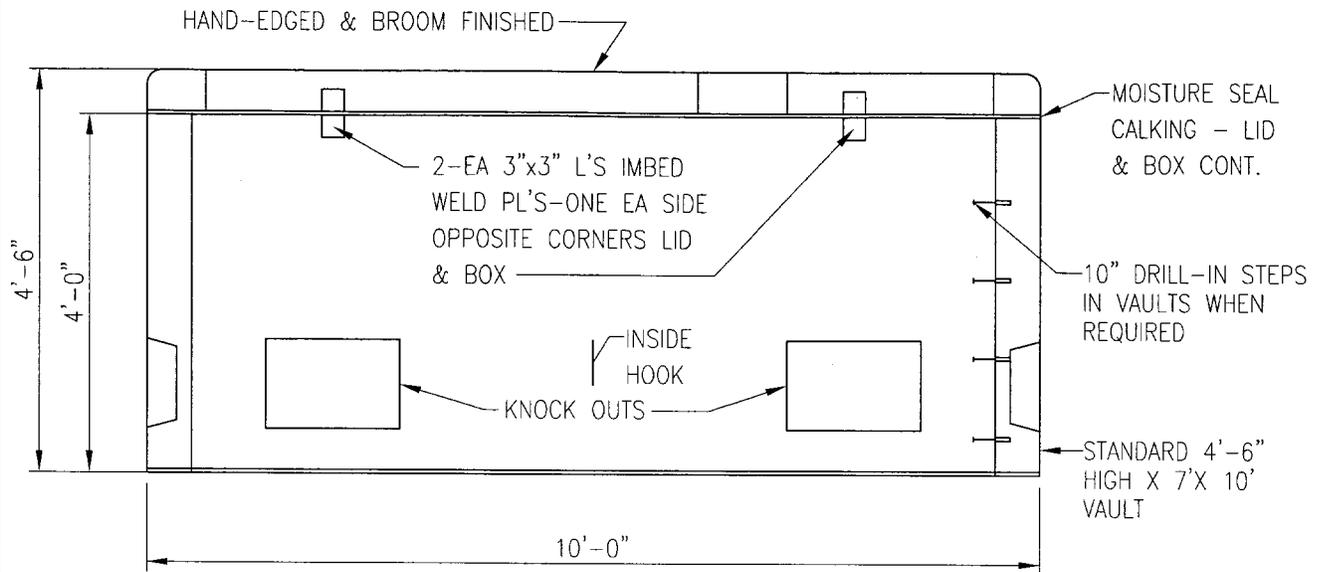
RISER DETAIL



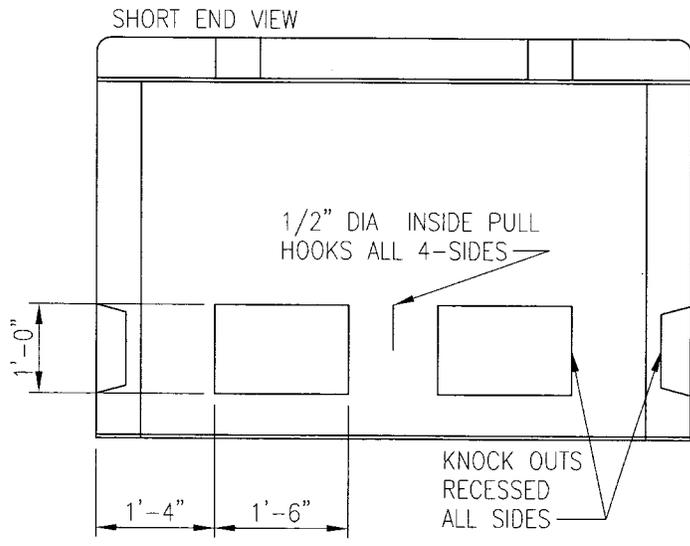
NOTES

1. RISER CONDUIT AND BRACKET SHALL BE MOUNTED TO POLE DIRECTLY UNDERNEATH CROSSARM AND/OR TRANSFORMER.
2. MOUNTING BRACKET SHALL BE 6" ALUMIFORM (SEE HURRICANE POWER).
3. BRACKET SHALL BE MOUNTED 4' FROM GROUND LEVEL.
4. ALL RISERS SHALL BE 1MC.
5. ONE PIECE OF 1MC WILL BE SUPPLIED AND MOUNTED TO BRACKET WITH ASSOCIATED STRAP BY OWNER/CONTRACTOR.
6. WIRE WILL BE PULLED INTO CONDUIT WITH ENOUGH WIRE TO CONTINUE TO TOP OF POLE.
7. RISER COST WILL BE CHARGED AFTER HURRICANE COMPLETES RISER.
8. FOR ALTERNATE RISER LOCATION SEE HURRICANE POWER.

21HDET25.DWG



ELECTRICAL SWITCH VAULTS LONG SIDE VIEW



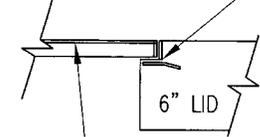
UPWALL PRECAST
ST GEORGE - 673-9377

TEMPORARY FILL-IN PL FOR LARGE OPENING

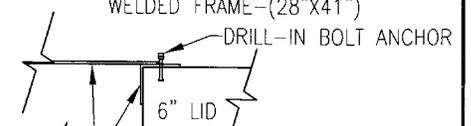
NOTES

1. ALL STEEL-PAINTED W/-1 COAT RED PRIMER 2- COATS- GRAY ENAMEL FINISH.

1-1/4"x1-1/4"x3/16"
L FRAME W/ #3 WELDED ANCHORS 3-EA SIDE



LID-3/16" FLOOR PLATE W/ 1"x1/4" FLAT BAR- WELDED FRAME-(28"x41")

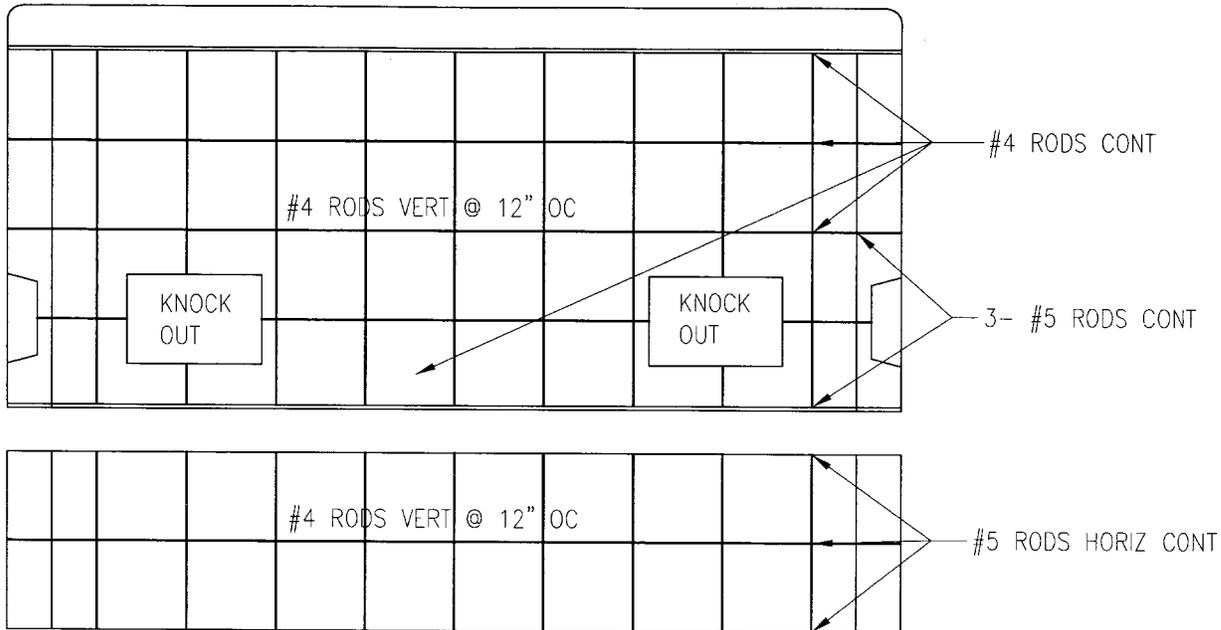


3/16"x 2-1/2"x 2-1/2" WELDED "L" FRAM W/ 3/16" SMOOTH PL COVER

5'X4' CONC OPENING FOR SWITCH

21HDET20.DWG

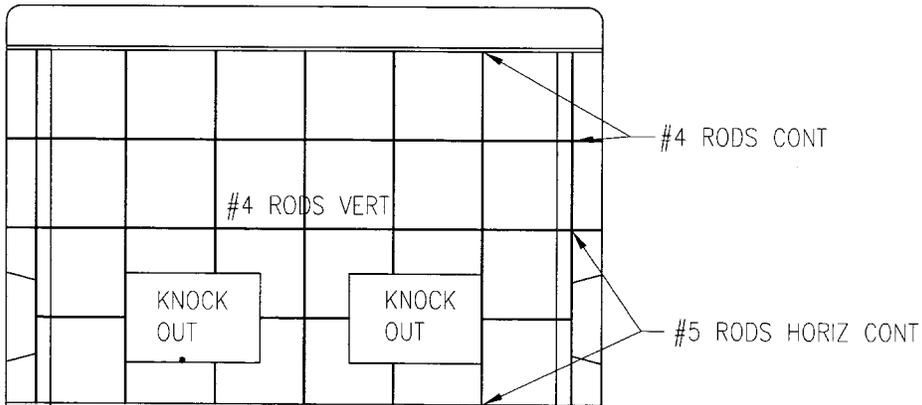
REINFORCEMENT DESIGN



ELECTRICAL SWITCH VAULTS

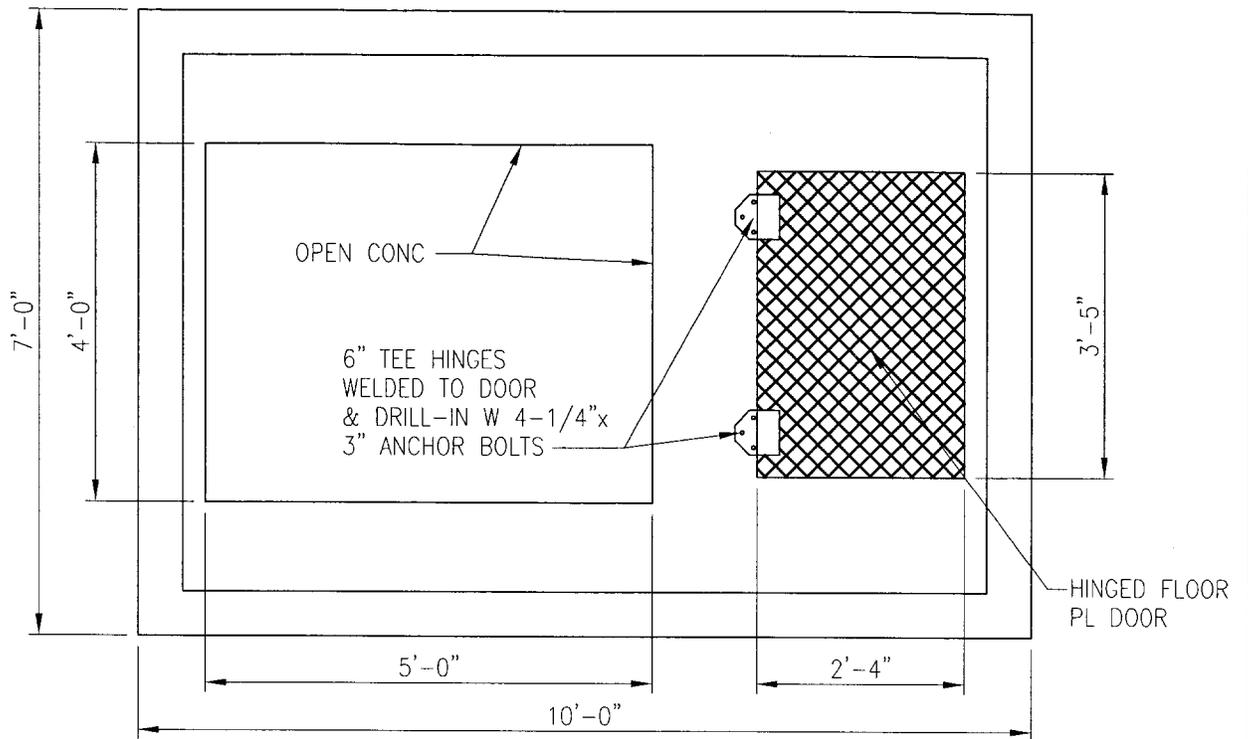
LONG SIDE VIEW

SHORT END VIEW

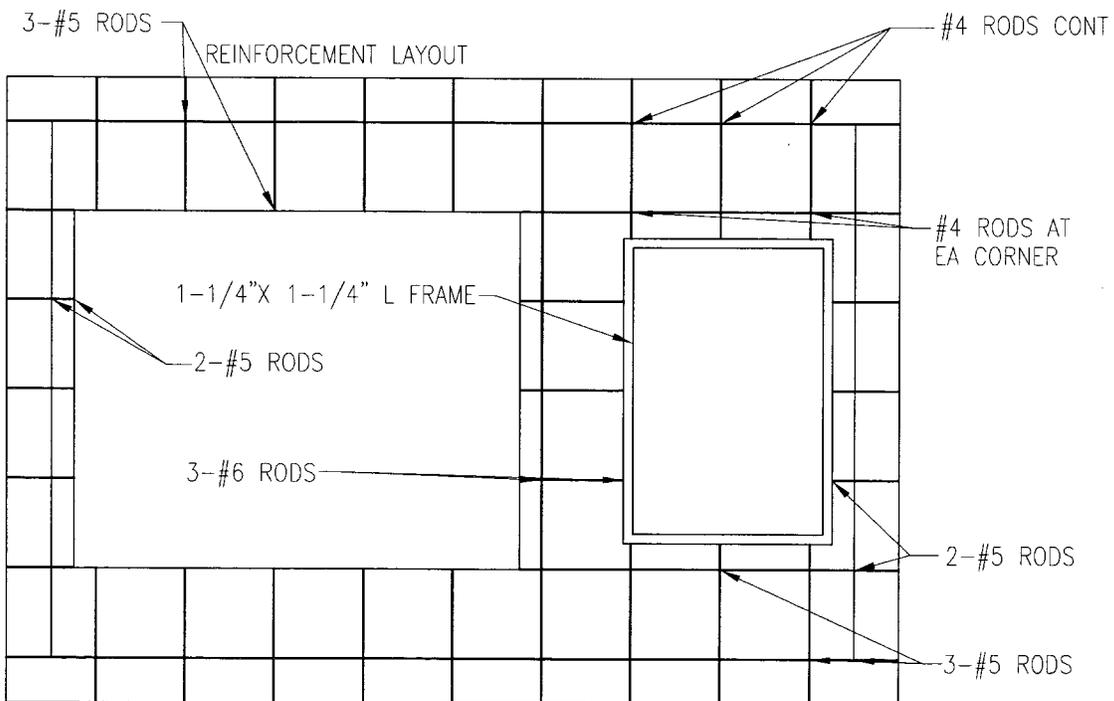


UPWALL PRECAST (OR APPROVED EQUIVELANT)
ST GEORGE - 673-9377

21HDET21.DWG



TOP VIEW CONC LID LAYOUT

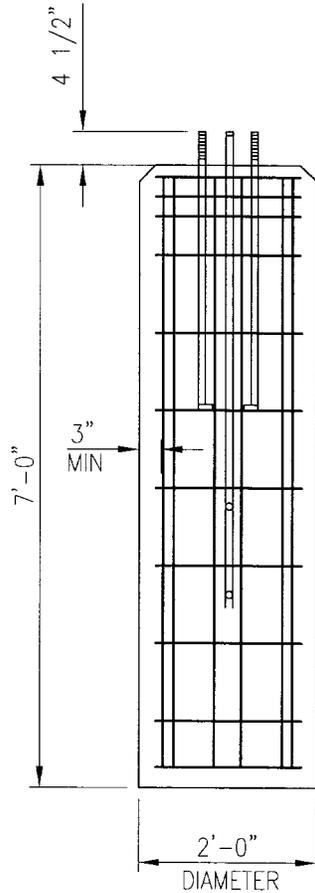


ELECTRICAL SWITCH VAULTS

UPWALL PRECAST (ORE APPROVED EQUIVILANT)
ST GEORGE - 673-9377

21HDET22.DWG

HURRICANE CITY-7' BASES



*1" DIA GALV BOLT-3' LONG

*1" DIA PVC CONDUIT

*40' STANDARD-HURRICANE CITY SPEC LIGHT BASE

*6-#6 RODS VERTICAL

*7-#3 RING AT 12" OC
CONT 60 GRADE REBAR

*4,000 PSI CONC 28DAYS

*#6 COPPER GROUND WIRE

*7' BASE USED FOR
PARKING LIGHT BASES
CEMENT PLASTER-FINISH

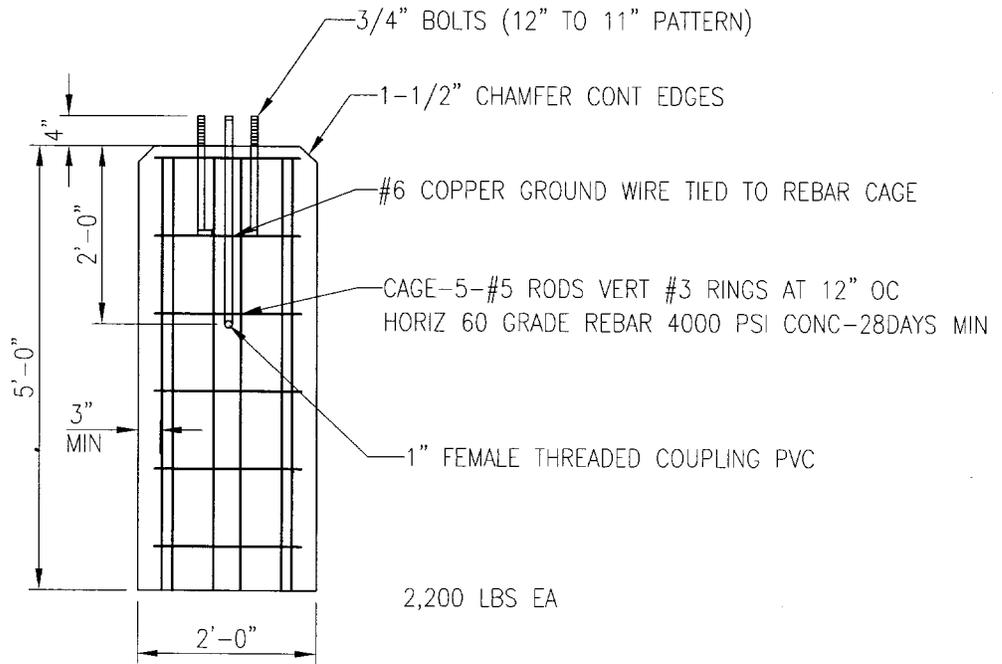
*MINIMUM REBAR USED:
FOR 35' HIGH & UNDER
6-#5 RODS VERT
7-#3 RINGS AT 17" OC
FOR 40' HIGH & ABOVE
6-#6 RODS VERT
7-#3 RINGS AT 12" OC

*1" DIA PVC CONDUIT 24"
BELOW GRADE OR TO
DESIGN SPEC'S

UPWALL PRECAST (OR APPROVED EQUIVILANT)
ST GEORGE - 673-9377

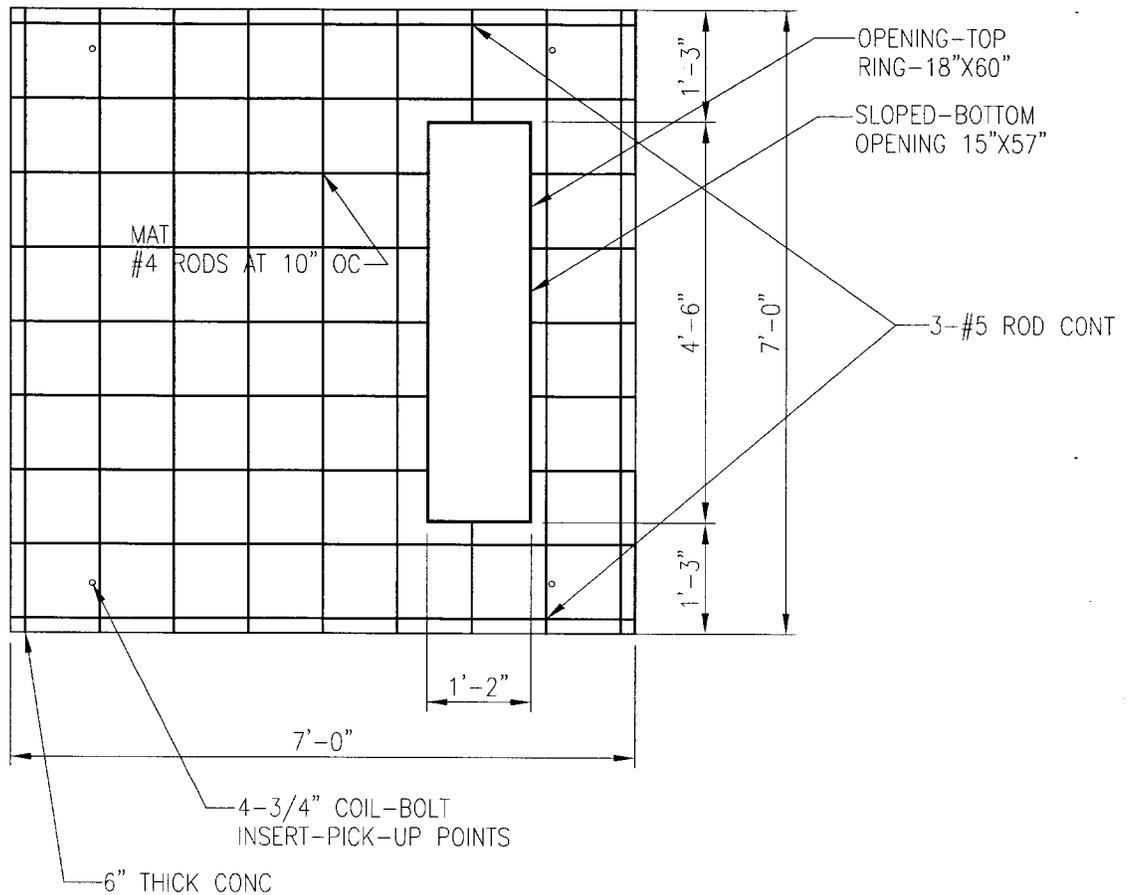
21HDET23.DWG

HURRICANE CITY-5' BASES



UPWALL PRECAST (OR APPROVED EQUIVILANT)
ST GEORGE - 673-9377

21HDET24.DWG



3-PH TRANSFORMER PAD
 CITY OF ST GEORGE POWER

UPWALL PRECAST (OR APPROVED EQUIVILANT)
 ST GEORGE - 673-9377

21HDET25.DWG

G175MHMALNFAZR
 LUMINAIRE: Mongoose, 175 W MH, Multivolt, Pre-wired to 120V tap, Low Tilt, 0 to 18 Degrees, Narrow Roadway, Flat Glass, Architectural Arm Mounting, Bronze painted finish, NEMA Twist-Lock Photocontrol Receptacle.

SSS2555CD1R3BZ
 POLE: 1 Luminaire Arm Mount, Square Straight Steel, 25 Ft. Pole, 80 MPH Windload, Non-AASHTO, Bronze Paint Finish.

25'

Specifications

POLE FEATURES & SPECIFICATIONS

CONSTRUCTION Welds conform to applicable AWS structural welding code. Pole shaft is one piece, low carbon alloy steel per ASTM A595, Grade A or ASTM A500, Grade C with 50,000-PSI minimum yield strength. Pole base shall be per ASTM A36 and shall telescope pole shaft and be circumferentially welded top and bottom. Hand hole is 2" x 4" minimum, cover and fasteners are included. Base covers shall be two piece, interlocking construction. Finish shall match pole. Removable pole cap shall be provided with each drill pattern type pole. Non-structural fasteners shall be stainless steel. Pole shaft to be 5" square with 11 ga. wall thickness.

FINISH Painted poles shall be semi-gloss powder paint.

GROUNDING Grounding provision shall be immediately accessible through hand hole, 1/2"-13 threads.

ANCHOR BOLTS Steel anchor bolts shall be per AASHTO M314 or ASTM F 1554 - Grade 55, hot dip galvanize. Nuts and washers shall be per AASHTO M314-90 or ASTM F 1554 - hot dip galvanized. Bolts to be .75" X 17" + 3" set on an 11" bolt circle.

Mongoose Performance Specification

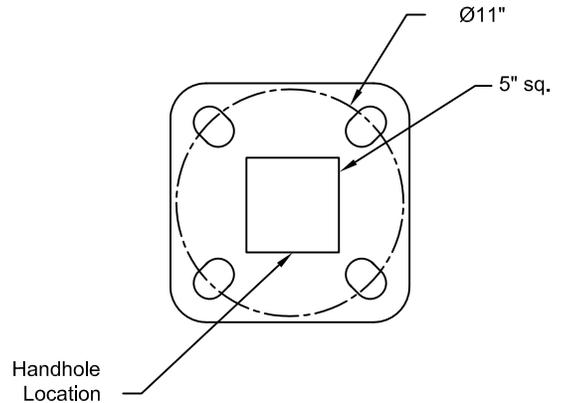
Mechanical Construction The housing, door and fitter shall be die cast aluminum. They shall undergo a six stage cleaning and pretreatment process and over-coated with an electrostatically applied 2 to 4 mil coat of TGIC polyester powder paint cured at 425°F. The finish shall withstand a 160 inch-pound impact measured with a standard Gardner impact tester. It shall have passed a 1000 hour salt spray test as specified by ASTM B-117. It shall exhibit no cracking or loss of adhesion from a 180° bend over a 1/8" mandrel diameter per ASTM D522. All external hardware shall be corrosion resistant. Housing access shall not require tools. The fitter shall be built in and accommodate a standard 2 inch tenon or arm. Units can be tilted between 0° and 18° or 27° and 45°. Electrical connection shall be inside the fitter assembly and not require fixture entry. A terminal block located inside the fitter shall be provided if specified.

Quick Disconnect Electrical Assembly The fixture door shall contain all ballast components and be hinged for fast tool-free removal and replacement. Complete replacement shall take less than 60 seconds.

Ballast Shall be copper wound, high power factor type as specified. It shall reliably start the amp in ambient temperatures to minus 40°F. The plug-in HPS starter shall be totally encapsulated with a material that electrically and thermally insulates all components from lamp and ballast heat. Mongoose is UL/CUL listed for 40°C ambient. (347V, 400W HPS restricted to 25°C ambient.)

Optical and Socket Assembly The reflector shall consist of high purity (#3002 alloy) aluminum of minimum 0.08" thick sheet. Flat lens shall be 1/8" fully tempered glass. Pressed prismatic or clear drop lens shall be manufactured of borosilicate glass. The reflector and lens optical assembly shall be designed to provide the IES pattern specified. The socket shall be pulse rated, nickel-plated and lamp grip porcelain enclosed. It shall prevent undue lamp vibration and backout.

Anchorage Detail



DO NOT USE TO SET ANCHOR BOLTS
 REQUEST TEMPLATE FROM CUSTOMER SERVICE

Catalog #'s

SSS2555CD1R3BZ AB-26-4 TMP-45 /G175MHMALNFAZR

Dark Green or Bronze Color acceptable



Hurricane City

Hurricane City, UT.

ORDER #:	TYPE:	DRAWING #:
REVISION:	REVISION DATE:	TSG 003889
DRAWN: BGW	ORIGIN DATE: 04-17-08	PAGE: 1 of 1

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