FOREWORD

UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION,
OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA
VOLUME II

The following participating entities of the Clark County, Nevada area have adopted these standard drawings.

CITY OF LAS VEGAS
Adopted by City Council action ....................................................November 4, 1987

CITY OF HENDERSON
Adopted by City Council action .....................................................October 20, 1987

CITY OF NORTH LAS VEGAS
Adopted by City Council action .....................................................November 4, 1987

CITY OF BOULDER CITY
Adopted by City Council action ....................................................January 26, 1988

CITY OF MESQUITE
Adopted by City Council action .....................................................January 26, 1988

CLARK COUNTY
Adopted by Board action ..............................................................April 1998

REGIONAL STREET AND HIGHWAY COMMISSION
Adopted by Commission Action .....................................................October 8, 1987

The Uniform Standard Drawings for Public Works Construction may be revised by issuance of revisions or supplements to correct errors and omissions found in these drawings and to reflect advanced thinking and the changing technology of the construction industry. Each revision will supersede any previous pertinent drawing. Upon approval by the RTC, revisions will become effective and be posted on the RTC web-site, www.rtsouthernnevada.com, by the first day of the month of January and July.

To implement this end a Specifications Committee has been established as a permanent organization to continually study and recommend changes to the standard drawings. Interested parties may address suggested changes and questions to the Regional Transportation Commission, 600 South Grand Central Parkway, Suite 350, Las Vegas, Nevada, 89106-4512.
<table>
<thead>
<tr>
<th>Proposed</th>
<th>Existing</th>
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- **PROPOSED**
  - Pull Box
  - Signal Luminaire Pole, Post
  - Utility Pole
  - Control Cabinet
  - Conduit Run
  - Aerial Cable
  - Detector Loop
  - Padmount, Electrical Service or Splice Box
  - Fluorescent Luminaire
  - High Pressure Sodium Luminaire - 750 Watt
  - High Pressure Sodium Luminaire - 400 Watt
  - Traffic Signal Indication with Backplate
  - Traffic Signal Indication with Directional Arrow and Backplate
  - Pedestrian Indication and Direction
  - Hazard Beacon, One Way

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**SPECIFICATION REFERENCE**

**UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA**

**STANDARD SYMBOLS FOR TRAFFIC SIGNAL DRAWINGS**

<table>
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<tr>
<th>DATE</th>
<th>DWG. NO.</th>
<th>SHEET</th>
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<tbody>
<tr>
<td>12-12-96</td>
<td>404.001</td>
<td>1 OF 2</td>
</tr>
</tbody>
</table>
QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)

NOTE: QUADRANT IS IN RELATION WITH SHEET - NOT WITH NORTH ARROW

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

QUADRANT DETAIL

DATE DWG. NO. 404.002 SHEET 1 OF 1
CAST IRON SIDEWALK COVER
MARKED "TRAFFIC SIGNAL"

PRECAST REINFORCED
CONCRETE BODY

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LANES.
2. ALL DIMENSIONS ARE NOMINAL.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

NO. 3-1/2 PULL BOX

DATE | DWG. NO. | SHEET
--- | --- | ---
 | 404.110 | 1 OF 1
CAST IRON SIDEWALK COVER
MARKED "TRAFFIC SIGNAL"

PRECAST REINFORCED
CONCRETE BODY

PRECAST REINFORCED CONCRETE
EXTENSION. (MUST NOT BE
USED UNLESS SPECIFIED.)

NOTES:
1. CAST IRON COVER SHALL BE
   USED IN SIDEWALK ONLY.
2. SEE DRAWING NO. 404.140 FOR
   COVER TO BE USED IN STREET
   AND UNDEVELOPED AREAS.
3. ALL DIMENSIONS ARE NOMINAL.
PLASTIC MORTAR REINFORCED SIDEWALK COVER MARKED "TRAFFIC SIGNAL."

REINFORCED PLASTIC MORTAR EXTENSION.

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.
CAST IRON SIDEWALK COVER MARKED "TRAFFIC SIGNAL" STEEL PULL BOX COVER, DRAWING NO. 404.140 IS PREFERRED FOR ALL USES, THIS PULL BOX ONLY.

PRECAST REINFORCED CONCRETE BODY.

PRECAST REINFORCED CONCRETE EXTENSION. (MUST NOT BE USED UNLESS SPECIFIED.)

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LANES.
2. SEE DRAWING NO. 404.140 FOR ALTERNATE COVER.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

NO. 7 PULL BOX

SPECIFICATION REFERENCE

DATE
DWG. NO. 404.130
SHEET 1 OF 1
PLASTIC MORTAR REINFORCED SIDEWALK COVER MARKED "TRAFFIC SIGNAL"

REINFORCED PLASTIC MORTAR BODY.

REINFORCED PLASTIC MORTAR EXTENSION.

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

REINFORCED PLASTIC MORTAR SERVICE BOX ASSEMBLY #7

DATE

DWG. NO. 404.131

SHEET 1 OF 1
REINFORCED POLYMER CONCRETE COVER MARKED "FIBER OPTIC"

POLYMER COMPOSITE BODY

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAVEL OR PARKING LINES.
ADJUSTABLE TORSION SPRING ASSISTED STEEL COVER MARKED "FIBER OPTIC"

CABLE RACK

GROUNDING RIBBON

3'-4" OVERALL

PRECAST CONCRETE MATERIAL

4'-8"

3'-2"

9" SUMP

NOTES:

1. DESIGN LOAD: H-20 WHEEL LOADINGS.

2. SUITABLE FOR USE IN OFF STREET LOCATIONS WHERE NOT SUBJECT TO HIGH DENSITY TRAFFIC. IT SHALL NOT BE USED IN TRAVEL OR PARKING LANES.

3. INSIDE DIMENSIONS - 30"X48"X36"

4. FOR USE AT FIBER OPTIC SPLICING POINTS.

TYPE 200 VAULT

TYPE 200 VAULT
( FOR USE AT FIBER OPTIC SPLICING POINTS )
**NOTE:**

1. THIS PULL BOX SHALL BE USED IN VEHICLE TRAVEL AREAS.

AVAILABLE IN #3, #5, & #7 SIZES (3 GAUGE STEEL)

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<td>STEEL PULL BOXES</td>
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ACCESS HOLE TO PULL BOX "L" BOLTS

BEAD WELD INSCRIPTION

STEEL FLOOR PLATE, 3/8" THICK, ROUND CORNERS TO MATCH EDGES OF PULL BOX

COVER

FINISHED GRADE

SIDE

MOUNTING BRACKET, WELDED TO COVER, TYP. LOCATE TO MATCH PULL BOX "L" BOLTS

1/4" TYP.

15-1/4"

3/8" x 16 COARSE THREAD TAP, CENTERED BETWEEN RIBS. FOR COVER GROUND CONNECTION SEE SHEET 2 OF THIS DRAWING NO.

BOTTOM

NOTES:

1. THIS COVER TO BE USED IN STREET AREAS AND UNDEVELOPED AREAS ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.
4. GROUNDING OF STEEL PULL BOX COVERS IS NOT NECESSARY FOR PULL BOXES CONTAINING LOW VOLTAGE, POWER-LIMITED CONNECTIONS.

SPECIFICATION REFERENCE

| 506 | STEEL STRUCTURES |
| 623 | TRAFFIC SIGNALS & STREETLIGHTING |

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PULL BOX STREET COVER

DATE 12-12-96  DWG. NO. 404.140  SHEET 1 OF 2
NOTES:
1. PULL BOX LID SHOULD BE TAPPED WITH A 3/8" X 16 COURSE THREAD TAP.
2. FOR TYPICAL NO. 7 PULL BOX COVER GROUNDING, SEE SHEET 1 OF THIS DRAWING NO.
CROSS SECTION

NATIVE MATERIAL OR SAND AS REQUIRED BY THE ENGINEER COMPACTED TO 90%

PULL BOX COVER

6" MIN.
PULL BOX

12"

CONDUIT

TOP VIEW

2"

3"

CONDUIT

PULL BOX FOUNDATION

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 7-12-01 DWG. NO. 404.141 SHEET 1 OF 1
P30 ITS COMMUNICATION PULL BOX SEE NOTES ON SHEET 2

5' TYP. TO NEAREST EXISTING CONSTRUCTION JOINT

SIDEWALK TO BE REMOVED AND REPLACED PER SECTION 202 OF THE STANDARD SPECIFICATIONS

EXISTING CONCRETE SIDEWALK

10' TYP. TO NEAREST EXISTING CONSTRUCTION JOINT

REMOVE/REPLACE CURB AND GUTTER WHEN NEEDED TO SATISFY THE CONDUIT MINIMUM BEND RADIUS

SAWCUT

RIGID CONDUIT BEND 3' MINIMUM RADIUS

FIBER OPTIC CABLE

4" PVC CONDUIT

12" MIN CLEARANCE

10'

10'

10'

10'

1'

1'

1'

CONDUIT BEND

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL (FOR EXISTING CURB & GUTTER)

DATE 3-13-08   DWG. NO. 404.142   SHEET 1 OF 2
PULL BOX MAY ALSO BE PLACED NEAR THE BACK OF CURB WITH A MIN. 8" CLEARANCE

SECTION A-A

NOTES:

1. P30 PULL BOX SHALL BE INSTALLED FOR THE TRAFFIC SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.
2. PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTICS".
3. APPROXIMATE LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS OF THE PROPOSED ITS COMMUNICATION PULL BOXES IN THE FIELD PER STANDARD STANDARD SPECIFICATION INTERVALS AND THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER BEFORE INSTALLATION.
4. DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.

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<td>ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL (FOR EXISTING CURB &amp; GUTTER)</td>
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NOTES:

1. P30 PULL BOXES SHALL BE INSTALLED FOR THE SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.

2. PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTIC".

3. LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS IN THE FIELD AT APPROXIMATELY 500 FEET INTERVALS. THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER BEFORE INSTALLATION.

4. DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.

5. CONDUIT SIZES SHALL BE PER UNIFORM STANDARD SPECIFICATIONS, SECTION 623.

6. ALL CONDUITS SHALL HAVE A CONTINUOUS RUN OF 6 PAIR PE39 #22 AWG INTERCONNECT CABLE.

7. UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND "FIBER OPTIC".
Effective 01/01/09 - 06/30/09

BACK OF SIDEWALK

FIBER OPTIC CABLE

NEW CONCRETE SIDEWALK

8" MIN

PVC CONDUIT

INTERCONNECT CABLE

P30 ITS COMMUNICATION PULL BOX
SEE NOTES - DRAWING NO. 404.143

DEPTH AS REQUIRED

FIBER OPTIC CABLE

CAP

EXTEND CONDUIT 3" INTO THE BOX

4" MIN. CLEARANCE

PVC CONDUIT

INTERCONNECT CABLE

TYPE 2 GRAVEL 12" DEPTH
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' I. 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

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

4" CAP

15# FELT (2 LAYERS)

STANDARD GROUNDING PLATE
PER NEC 250-83

40" MIN.

5"

24" MIN.

24" DIA.
OR 18" SQ.

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.

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

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3'6" ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

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

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED

4" CAP

STANDARD GROUNDING PLATE PER NEC 250-83

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.
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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.

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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

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

6"X6" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83
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.

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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

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

6" XG" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "F" FOUNDATION

DATE 9-14-00 DWG. NO. 404.206 SHEET 1 OF 1
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.

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**ANCHOR BOLTS**

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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

---

2" CONDUIT

---

3'-6" MESH HEIGHT

6"X6" WIRE MESH 10 GA.

---

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

---

36" DIA. CONCRETE BASE

---

**SPECIFICATION REFERENCE**

| 623G.03.06 FOUNDATION |

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**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**TYPE "G" FOUNDATION**

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| DATE 9-14-00 | DWG. NO. 404.207 | SHEET 1 OF 1 |
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.
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.

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

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS
2" X 66" X 6" BOLTS
BASE OF POLE
1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK
4" MIN.-6" MAX. CONCRETE CAP

#4 BAR 2"X2" SPACING, TOP 14" MIN.

10 GA. 6"X6" WIRE MESH OR #4 BAR 6"X6" SPACING

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

36" DIA. CONCRETE BASE

SPECIFICATION REFERENCE
623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "L" FOUNDATION

DATE 9-14-00 DWG. NO. 404.209 SHEET 1 OF 1
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.

NO. 4 AWG SINGLE-STRAND BARE COPPER GROUNDING WIRE 3'6" ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT. (SEE NOTE 4)

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 NOS. 404.406, 404.407 AND 404.409.

SPECIFICATION REFERENCE
623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "M" FOUNDATION

DATE 10-10-02  DWG. NO. 404.210  SHEET 1 OF 1
NOTES:

1. FOR CONDUIT SIZE, LOCATION AND QUANTITY, SEE PLANS.

2. ANCHOR BOLTS 3/4" X 18" X 3" SHALL BE HOT-DIP GALVANIZED COMMERCIAL GRADE STEEL WITH NUT AND WASHER.

3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.

4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2" MIN., 4" MAX.

5. 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. FOR CONDUIT SIZE, LOCATION, AND QUANTITY SEE PLANS REFER TO CONDUIT LAYOUT DRAWING # 404.213A FOR DETAILS.

2. 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS. LOCATE WITH TEMPLATE.

3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.

4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 1" MIN., 4" MAX.

5. LOCATION OF FOUNDATION MUST BE APPROVED BY ENGINEER IN FIELD.

6. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE CONNECTED TO EACH ANCHOR BOLT WITH BRONZE GROUNDING CONNECTOR BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

8" OF #4 AWG SINGLE STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

60" MIN. (EASEMENT MAY BE NECESSARY)

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83
Effective 01/01/09 - 06/30/09

NOTES:

1. 3" OR 4" FIBER OR INTERCONNECT FROM TYPE 200 OR P-30 PULL BOX. REFER TO PLANS FOR INTERCONNECT/FIBER CONDUIT SIZE.
2. 2" CONDUIT FROM SERVICE PEDESTAL.
3. 3" CONDUITS FROM #7 TRAFFIC SIGNAL PULL BOX FOR SIGNAL POLES.
4. #4 SINGLE STRAND BARE COPPER WIRE SEE DRAWING 404.213 FOR DETAILS.
5. INSTALL CONDUITS 1" FRONT OF CENTER LINE.
6. REFER TO PLANS FOR ANY ADDITIONAL CONDUITS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CABINET CONDUIT LAYOUT TYPE "J" & "K" FOUNDATIONS

DATE : 10-9-08   DWG. NO. 404.213A   SHEET 1 OF 1
NOTES:

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

2. CABINET COVERS SHALL BE PARALLEL WITH CURB.

3. IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.

4. CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.
MOTOR: 1/125 HP, 3000 RPM NEMA CLASS B INS. 0.65 AMPS AT 115 VAC.

VENT FAN SPECIFICATION:
134 C.F.M. RATING AT 160° OF WATER STATIC PRESSURE.

POLICE PANEL

PLAN AT BASE

"M" CABINET

NOTES:
1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. DOOR SHALL LOCK AT THREE POINTS.
4. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.211.
5. INCLUDE 3/4" x 18" x 3' HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
NOTES:

1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.

2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.

3. SHELVES SHALL BE REMOVABLE AND ADJUSTABLE FOR VERTICAL SPACING.

4. DOOR SHALL LOCK AT THREE POINTS.

5. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.213.

6. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
VENT FAN SPECIFICATION:
SEE STANDARD DRAWING
NO. 404.304

"R" CABINET

NOTES:

1. MATERIAL = 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.

2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.

3. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.213.

4. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
VENT FAN SPECIFICATION:
SEE STANDARD DRAWING NO. 404.304

"RR" CABINET

NOTES:
1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. FOUNDATION DETAILS SHALL BE SPECIFIED ON THE SIGNAL CONSTRUCTION PLANS.
4. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE IX
CABINET

DATE 12-12-96 | DWG. NO. 404.308 | SHEET 1 OF 1
NOTES:

1. CONSTRUCT FROM MINIMUM 12-GUAGE STEEL.

2. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.
WIRING DIAGRAM FOR FLASHING BEACON
TIMER CONTROLLED OPERATION

NOTES:
1. ALL WIRING INSIDE THE CABINET SHALL BE #14 THW.
2. ALL FIELD WIRE TO THE SIGNAL SHALL BE #14 SOLID COPPER.
3. THE SERVICE WIRE SHALL BE 2-#4 THW & 1-#6 THW.
   PROVIDE #10 PIGTAIL FOR CONNECTION TO BREAKER.
4. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.
5. TWO POLE SOLID STATE FLASHER.
6. THERE SHALL BE A 1" MINIMUM CLEARANCE BETWEEN INDIVIDUAL COMPONENTS.
7. ALL SERVICE POINTS SHALL BE AS FOR STREET LIGHTING.
8. FLASHING PATTERN OF LIGHTS TO BE SPECIFIED BY THE ENTITY.
**NOTES:**

1. **ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.**

2. **LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.**

3. **FOR OTHER DETAILS SEE DRAWING NO. 404.406 SHTS. 2 & 6.**

4. **INSTALL A BACKFACING LIGHT ON BACK OF OUTERMOST LIGHT, INDICATING THE SPEED LIMIT MESSAGE IS IN OPERATION.**

5. **HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.**

6. **MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.**

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**FOR "F" TYPE FOUNDATION SEE DRAWING NO. 404.206**

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**SPECIFICATION REFERENCE**

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**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**SCHOOL FLASHING SIGN ON POLE WITH LUMINAIRE**

---

**DATE** 9-14-06  **DWG. NO.** 404.400  **SHEET** 1 OF 2
SCHOOL FLASHING SIGN ON TYPE-III POLE

NOTES:

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. INSTALL A BACKFACING LIGHT ON BACK OF OUTERMOST LIGHT, INDICATING THE SPEED LIMIT MESSAGE IS IN OPERATION.
NOTES:

1. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

2. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.

3. POST SHALL BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

FOR TYPE "A" FOUNDATION SEE DRAWING NO. 404.201
NOTES:

1. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

2. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.

3. POST SHALL BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

FOR TYPE "A" FOUNDATION SEE DRAWING NO. 404.201

---

PLAN OF BASE

PEDESTRIAN PUSH BUTTON

PROVIDE 5" X 7-3/4" SIGN THIS POST ONLY.

ADDITIONAL PEDESTRIAN PUSH BUTTON, IF REQUIRED.

2-1/2" I.P.S.

INCLUDE 5/8" X 12" X 3" HOT-DIP GALVANIZED ANCHOR BOLTS.

SPECIFICATION REFERENCE

<table>
<thead>
<tr>
<th>UNIFORM STANDARD DRAWINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLARK COUNTY AREA</td>
</tr>
</tbody>
</table>

| PEDESTRIAN PUSH BUTTON POST FOR |
| 2 1/2 POSTTOP MOUNTING         |

<table>
<thead>
<tr>
<th>DATE</th>
<th>DWG. NO.</th>
<th>SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-12-96</td>
<td>404.401</td>
<td>2 OF 2</td>
</tr>
</tbody>
</table>
POLE TYPE | "A" NOM. | SHAFT SIZE | NOTES
---|---|---|---
1-A | 10'-0" | 11 GA. 5.5" X 4.1" X 10'-0" | NEAR RIGHTS & ISL. POLES
1-B | 7'-0" | 11 GA. 5.5" X 4.1" X 7'-0" | PED. HEADS & BUTTON ONLY

NOTES:
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
3. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.
6" SCH. 40
GRADE "A"

(8) WELDED
STEEL COUPLING

(8) 8" SIGNAL HEADS
SHOULD EXTEND TO
TOP & BOTTOM OF
SIGN AS SHOWN

DETAIL "A"

DETAIL "B"

PLAN OF BASE

4" X 6-1/2" (INSIDE DIM.)
HANDHOLE AND COVER
(SHALL FACE AWAY FROM
ONCOMING TRAFFIC)

3/8" STEEL PLATE
BASE THICKNESS

HEAVY SQ. NUTS
FOR PLUMBING

NOTES:

1. DRILL 1" HOLES IN STEEL PIPE WHERE
1-1/2" STEEL COUPLINGS ARE TO BE.

2. POLE TO BE HOT-DIP GALVANIZED BY MANUFACTURER
OR PRIME PAINTED BY MANUFACTURER AND FINISH
PAINTED BY CONTRACTOR PER SPECIFICATIONS
AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH
TAMPER-RESISTANT SCREWS.

FOR TYPE "G" FOUNDATION SEE DRAWING NO. 404.207

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGN POST WITH
SCHOOL SIGN MOUNTED

DATE 12-12-96 | DWG. NO. 404.403 | SHEET 1 OF 2
NOTES:

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH BY PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. HANDBOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.
**LUMINAIRE ARM DATA**

<table>
<thead>
<tr>
<th>ARM SPAN &quot;L&quot; (FT)</th>
<th>FIXED END DIA. (IN)</th>
<th>FREE END DIA. (IN)</th>
<th>GAUGE</th>
<th>LUMINAIRE MOUNTING HEIGHT</th>
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<tr>
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**NOTES:**

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HAND-HOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".

5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS, INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.

6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS. (SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.209

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**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**TYPE XX-30'-0"**

**SIGNAL & LUMINAIRE POLE**

(45' OR LESS MAST ARMS)

DATE 9-14-06 DWG. NO. 404.406 SHEET 1 OF 6
1/4" THK. GUSSETTS

2" DIA. WIRE ENTRY
WITH EDGES DEBURRED

NOTES:
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".
5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

16 1/2" DIA.
BOLT CIRCLE

3/4"

1"

7/16" DIAM. THRU HOLE

1/4" THK. TOP BOTTOM & SIDE GUSSETS.

4-1/2" x 7" MIN.
(INSIDE DIM.)
HANHOLE
AND COVER
(SHALL FACE
AWAY FROM
ONCOMING
TRAFFIC)

1/2" N.C.
SQUARE NUT
FOR GROUND

1/2"

BASE
COVER

1-3/4" x 60" x 60"
BOLT

HOT-DIP GALV. ANCHOR BOLTS
W/2 HOT-DIP GALV. HEX NUTS
& WASHERS PER BOLT.

LUMINAIRE ARM
CONNECTION DETAIL

POLE MOUNTING DETAIL

CAP END OF
MAST ARM

BOLTS 3-EA.
3/4" x 1-3/4"
A325-X

6"

7-3/4"

BOLTS 4-EA.
1-1/2" x 4"
A325-X

1/3"

1/8"

2" SCH. 40 PIPE
TENON (2.375 O.D)

1/4" THK. TOP
BOTTOM & SIDE
GUSSETS.

4-1/2" x 7" MIN.
(INSIDE DIM.)
HANHOLE
AND COVER (LOCATED
180° OPPOSITE
MAST ARM)

1-3/4"

2" SCH. 40 PIPE
WIRE ENTRY
(EDGES DEBURRED)
3" HOLE IN SHAFT.

MAST ARM
CONNECTION DETAIL

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - 30'-0"
SIGNAL & LUMINAIRE POLE
DETAILS

DATE 9-14-06  DWG. NO. 404.406  SHEET 2 OF 6
LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

11 GA. ROUND TAPERED ARM

REMOVABLE POLE TOP

15'

18-5/8'

30' ROUND TAPERED STEEL SHAFT

LUMINAIRE ARM DATA

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NOTES:

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2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".

5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.

6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS. (SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE: 9-14-06  DWG. NO: 404.406  SHEET: 3 OF 6

TYPE XX - A - 30'0" SIGNAL & LUMINAIRE POLE (50' THRU 60' MAST ARMS)
Effective 01/01/09 - 06/30/09

NOTE:

EACH CONDUCTOR SHALL HAVE A MINIMUM OF 18 INCHES OF SLACK

#8 GREEN THWN BONDING CONDUCTOR CONNECTED TO POLE GROUND WITH SPLIT BOLT CONNECTOR

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. (GROUNDING CONFIGURATION DIFFERS FOR TYPE "L" FOUNDATION. SEE STANDARD DRAWING NO. 404.209)

BRONZE GROUNDING CONNECTOR (UL LISTED FOR UNDERGROUND USE) FOR NO.4 WIRE

SPLIT-BOLT CONNECTOR

HEX HEAD NON-CORROSIVE CAP SCREW WITH FLAT WASHER WITH A SINGLE-STRAND BARE NO. 4 AWG COPPER GROUNDING CONDUCTOR

HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

SIGNAL STANDARD
1/4" NON-THREADED WITH LOCK NUT WASHER WITH DOUBLE HEX HEAD NUTS (HOLES FOR NON-THREADED SHALL BE FIELD DRILLED)

REMOVABLE MAST ARM RAIN CAP

1/2"
**LUMINAIRE ARM DATA**

<table>
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**NOTES:**

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE ATTACHED VIA TWO SCREWS INTO PLATES MOUNTED INSIDE THE HANDHOLE.

4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 42" FROM THE SURFACE OF THE WALK.

5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALLATION OF STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED SHALL BE APPROVED BY THE ENGINEER.

6. IF DUAL LUMINAIRE ARMS ARE NOT SPECIFIED IN THE PLANS, THE SECOND CONNECTION POINT SHALL BE COVERED BY A COVER PLATE UNTIL SUCH TIME AS A SECOND ARM MIGHT BE ADDED.


FOR "M" TYPE FOUNDATION SEE DRAWING NO. 404.210

**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**TYPE XX - B - 30'-0" SIGNAL & LUMINAIRE POLE**

(65' THRU 85' MAST ARMS)

**DATE 11/10/05  DWG. NO. 404.406B  SHEET 1 OF 3**
ALTERNATE SIGN INSTALLATION

65' THRU 85'
SPANS
ALTERNATE LOADING

NOTE:
TYPE XX-B POLE
SHALL ALSO SUPPORT
THE ALTERNATE LOADING
SHOWN ABOVE.

MAX. 85' SPAN

TYPE XX-B

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>DESCRIPTION</th>
<th>PROJ. AREA (FT²)</th>
<th>WEIGHT (LBS)</th>
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<tbody>
<tr>
<td>A</td>
<td>SIGNAL 12&quot;- 3 SEC. W/ BACKPLATES (M-2)</td>
<td>9.80</td>
<td>40</td>
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<tr>
<td>B</td>
<td>SIGN R3-5 24&quot; X 30&quot;</td>
<td>5.00</td>
<td>15</td>
</tr>
<tr>
<td>C</td>
<td>SIGN R3-4 24&quot; X 24&quot;</td>
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<tr>
<td>D</td>
<td>SIGNAL 12&quot;- 5 SEC. W/ BACKPLATES</td>
<td>13.68</td>
<td>80</td>
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<td>E</td>
<td>SIGN R10-5d(8) 24&quot; X 36&quot;</td>
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<tr>
<td>F</td>
<td>SIGN STREET NAME-FREE SWINGING-1.88' X 8'</td>
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<tr>
<td>G</td>
<td>SIGNAL DUAL-12&quot;- 3 SEC. W/ BACKPLATES</td>
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DESIGN CRITERIA:
AASHTO STANDARD SPECIFICATIONS (1994 EDITION) FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.

WIND VELOCITY:
80 MPH ISOTACH.
NOTES:

1. CONTRACTOR TO INSTALL RED LIGHT RUNNING INDICATORS, McCAIN MODELS M61385 (RED) & M61448 (BLUE), OR APPROVED EQUAL AS INDICATED BY THE TRAFFIC ENGINEER.

2. RED (THRU) INDICATOR SHALL BE MOUNTED 16' ABOVE POLE BASE PLATE AND BLUE (LEFT) INDICATOR SHALL BE MOUNTED 17' ABOVE POLE BASE PLATE AND SHALL FACE AWAY FROM ONCOMING TRAFFIC.

3. RED LIGHT RUNNING INDICATOR L.E.D. HOUSING SHALL BE FIELD ADJUSTED. PLEASE CONTACT THE TRAFFIC ENGINEER FOR COORDINATION.

4. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE ON TRAFFIC SIGNAL PLANS.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CLARK COUNTY ONLY
RED LIGHT RUNNING INDICATOR INSTALLATION DETAILS

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CLARK COUNTY ONLY
RED LIGHT RUNNING INDICATOR INSTALLATION DETAILS

DATE 9-14-06  DWG. NO. 404.406C  SHEET 1 OF 1
NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.

5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208.
NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.

5. MULTI-SIDED POLE MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX-A-20'-0"
(50' THRU 60' MAST ARMS)
SIGNAL POLE

DATE 9-14-06  DWG. NO. 404.407  SHEET 2 OF 2
1 3/16" HOLE, 4 REGD.

4.506" ± .003" HOLE DIA.

4" 3.125" 1.125" 1.125" 1.750" 2.375"

90° 45°

5 3/4" 7 3/4" 3 7/8" 5 7/8"

1" R 2" R 11" 16 1/2"

1/4" X 4" GUSSETS - 4 REQUIRED

1 3/4" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT (4 REQD.) FOR FOUNDATION, SEE DRAWING NO. 404.208

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

BASE ADAPTOR PLATE
FOR TYPE "H" FOUNDATION

DATE 12-12-96 DWG. NO. 404.409 SHEET 1 OF 2
2" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT (4 REQD.) FOR FOUNDATION, SEE DRAWING NO. 404.209.

BASE ADAPTOR PLATE
FOR TYPE "L" FOUNDATION

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 12-12-96  DWG. NO. 404.409  SHEET 2 OF 2
NOTES:

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. FOR MAST ARM TENON MOUNTING AND SPACING AND ADDITIONAL INFORMATION REFER TO STANDARD DRAWING NO. 404.412

3. MULTI SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR OTHER DETAILS SEE DRAWING NUMBER 404.406 SHT 2 & 6

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 406.406 SHT 3 & 6
FOR "L" FOUNDATION SEE DWG. 404.209

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

30' POLE WITH SCHOOL FLASHING SIGN

DATE 9-14-06  DWG. NO. 404.410  SHEET 1 OF 1
* SPEED LIMIT TO BE INDICATED ON PLANS

NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.


4. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

5. SCHOOL SIGN SHALL BE MOUNTED AS SHOWN IN STANDARD DRAWING NO. 404.410

6. REFER TO DRAWING NO. 404.407 SHEET 1 OF 2 IF XX-20 POLE IS REQUIRED.

7. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR "H" TYPE FOUNDATION
DRAWING NO. 404.208

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 406.406 SHT 3 & 6
FOR "L" FOUNDATION SEE DWG. 404.209
2-1/2" SCH. 40 PIPE 
(LENGTH 10'-0").

3/4" CLEARANCE 
HOLE

5/8" x 1-1/4" SQ. HD. 
CUP POINT SET SCREW.

4.75" DIA

BACK BRACE ASSEMBLY 
DETAIL A

LENGTH 10'-0"
SEE DETAIL A

SEE DRAWING NO. 404.417 FOR 
STREET NAME SIGN DETAILS.

STREET NAME

SEE DRAWING NO. 404.420 
FOR BLOCK SIGN DETAILS.

12"

18"

17.1'

NOTES:

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED 
OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.

2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 769-6, 
AND SHALL HAVE (4) FOUR BOLTS.

3. BRACE ASSEMBLY TO BE USED ON 30' POLES ONLY. TO BE 
MOUNTED 20' FROM POLE BASE.

4. WHEN VOLTAGE EXCEEDS 120V, A STEP-DOWN TRANSFORMER 
SHALL BE SUPPLIED.

5. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 
90? FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP 
LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.

2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 769-6, AND SHALL HAVE (4) FOUR BOLTS.

3. BRACE ASSEMBLY TO BE USED ON 30' POLES ONLY. TO BE MOUNTED 24' FROM POLE BASE.

4. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

1. FOR TYPE XX POLE SPECIFICATIONS SEE DRAWING NO. 404.406.

2. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

1. OVERHEADUTILITY LINES SHALL BE CLEAR OF HIGHEST BACK PLATE ON ANY GIVEN SIGNAL ARM AND LOWEST PLATE OF STREET NAME SIGN.

2. ANY UTILITY CABLE BEING INSTALLED WITHIN THE CLEARANCE ZONE SHALL NEED PRIOR APPROVAL FROM THE TRAFFIC ENGINEERING DIVISION WHO CONTROLS THE RIGHT OF WAY.

3. PARTIES SHALL COORDINATE AND CONCUR ON CABLE AND SIGNAL INSTALLATIONS TO AVOID CREATION OF CROSSING CONFLICTS WITHIN THIS CLEARANCE ZONE.
NOTES:

1. SIGN SHALL BE DOUBLE FACED.

2. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT CLASS 6 REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYERED WITH GREEN ELECTRONIC CUTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.1875" GAGE.

3. LETTERS SHALL BE 8" SERIES E AND, UNLESS OTHERWISE SPECIFIED BY THE TRAFFIC ENGINEER, SHALL BE ALL UPPERCASE WITH NO STREET NAME SUFFIX. IF NECESSARY TO MAKE SPACING FIT, REDUCE TO 8" SERIES D. SPACING BETWEEN LETTERS MAY BE INCREASED BY UP TO 25% (MAX) TO ACHIEVE 4" END SPACES.

4. APPROVAL OF SHOP DRAWING OF SIGNFACE LAYOUT BY TRAFFIC ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN PANELS.

5. SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

6. ADVANCE BALLAST RSM175STP FOR EACH FLUORESCENT TUBE IS REQUIRED AND NO SUBSTITUTES.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

STREET NAME SIGN
INTERNALLY ILLUMINATED

DATE 3-9-06 DWG. NO. 404.417 SHEET 1 OF 1
NOTES:

1. SIGN SHALL BE DOUBLE FACED.
2. ALUMINUM EXTRUSION CABINET 12" DEEP - MILL FINISH WITH ALL ALUMINUM INTERNAL STRUCTURE.
3. TOP-HINGED RETAINER SYSTEM WITH PROP ROD FOR ACCESS AND SERVICE.
4. T12 800MA CW-HO FLUORESCENT ILLUMINATION INTERNALLY.
5. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYERED WITH GREEN ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.177" THICK.
6. LETTERS SHALL BE 8" SERIES E AND UNLESS OTHERWISE SPECIFIED BY THE TRAFFIC ENGINEER, SHALL BE ALL UPPERCASE WITH NO STREET NAME SUFFIX. IF NECESSARY TO MAKE SPACING FIT, REDUCE TO 8" SERIES D. SPACING BETWEEN LETTERS MAY BE INCREASED BY UP TO 25% (MAX) TO ACHIEVE 4" END SPACES.
7. STEEL BRACKETS SHALL BE USED FOR FLAG MOUNT POLE ATTACHMENT.
8. THE USE OF THE POLE MOUNTED STREET NAME SIGN SHALL BE APPROVED BY THE ENTITY ENGINEER.
INSTALLATION INSTRUCTIONS

* ATTACH BRACKETS ① TO CABINET END AT TOP AND BOTTOM WITH BOLTS PROVIDED LOOSELY TIGHTEN BOLTS (SNUG).

* LIFT CABINET WITH BRACKETS TO POLE AT FINISHED HEIGHT USING A NYLON LIFTING SNAP NEAR THE BRACKETS (WHERE BALANCED).

* ATTACH BRACKET HALVES ② TOGETHER AROUND POLE WITH PROVIDED HARDWARE AS SHOWN.

* MOVE LIFTING STRIP TO CENTER OF CABINET & LEVEL THEN TIGHTEN BOLTS INTO CABINET.

* ATTACH SET SCREWS ③ THROUGH BRACKET INTO POLE AS SHOWN.

* HOOK UP ELECTRICAL CONNECTION (SEE PAGE 2 FOR AN EXAMPLE).

WIRING RECOMMENDATIONS

* LOCATE & DRILL A 3/4" DIA. HOLE A THRU POLE. THREAD HOLE WITH 1/2" PIPE THREAD TAP.

* PULL WIRES FROM GROUND THRU TAPPED HOLE GUIDE WIRES TO AVOID SCRAPING INSULATION.

* ASSEMBLE LIQUID TIGHT 1/2" CONDUIT B & FITTING C TO CONNECT POLE TO CABINET.

* FEED WIRES THRU CONDUIT & INTO CABINET, USE A 2X4 HANDY BOX INSIDE OF CABINET TO FACILITATE WIRE PULLING.

* AFTER FEEDING WIRES, THEN THREAD FITTINGS INTO THREADED HOLE IN POLE & CABINET.

* WIRE BALLAST INSIDE CABINET AS REQUIRED.

NOTE: THE STREET NAME SIGN SHALL BE MOUNTED 18" ABOVE THE MAST ARM

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ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED BRACKET DETAIL

DATE 11/10/05  DWG. NO. 404.417A  SHT 3 OF 3
NOTE:

THE BRACKET AND STRAP ARE OF THE BANDIT TYPE OR EQUIVALENT.
NOTES:

1. N, E, S, OR W REQUIRED ON ALL BLOCK NUMBER SIGNS WITH A SPACE BETWEEN THE LETTER AND THE NUMBERS. ( i.e. W 6900 )

2. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

BLOCK NUMBER SIGN

DATE 4-9-98 DWG. NO. 404.420 SHEET 1 OF 1
HALF CLAMP SIMILAR TO PUMCO PART NO. 769-6

HALF CLAMP SIMILAR TO PUMCO PART NO. 206-6

3/4" CLEARANCE HOLE

5/8" x 1-1/4" SQ. HD. CUP POINT SET SCREW.

6" DIA.

6"

NOTES:

1. COMPLETE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.

2. COMPLETE ASSEMBLY SIMILAR TO PUMCO PART NO. 207-769-6.

3. THIS ASSEMBLY TO BE USED ON EXISTING 30' POLES ONLY.
(4) 1/2" - 13 N.C. X 2" HEX HEAD MACH. BOLTS W/(4) 1/2" - 13 N.C. HEX. NUTS (GALvanized)

CLAMP RANGE
3 3/4" TO 4" O.D.

8' SPAN (NOM.)

12"
STRAIGHT

6 3/5 RISE

2" STD. PIPE
(2.375" O.D.)

21° 7/8°
R.

EXISTING ROUND STEEL POLE
W/ SIMPLEX ATTACHMENT

EXISTING ARM ATTACHMENT
(ONE BOLT SIMPLEX)
USE FOR WIRING ENTRANCE

BRACKET RATING
MAX. LUMINAIRE AREA = 2.7 FT²
MAX. LUMINAIRE WT. = 57 LBS.
SPECIAL NOTE: POLE SHALL NOT BE DRILLED FOR CLAMSHELL UNTIL AFTER INSTALLATION OF POLE.

NOTES:
1. DRILLING OF POLE TO BE ORIENTED ACCORDING TO POLE LAYOUT, SPECIFICATIONS, AND ENGINEER.
2. DIMENSIONS ARE FROM CURB LEVEL.
3. DIMENSIONS ARE TO WIRE INLET HOLE ONLY. USE MANUFACTURER'S TEMPLATE TO LOCATE ALL OTHER HOLES.
4. ALL HOLES ARE TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS.

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<td>POLE DRILLING DETAILS</td>
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DATE    DWG. NO. 404.600 SHEET 1 OF 1
NOTE:

FOR POLE LOCATION ON RIGHT TURN ISLAND SEE DRAWING NO. 404.1301.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MEDIAN ISLAND SIGNAL LOCATION

DATE DWG. NO. 404.700 SHEET 1 OF 1
OVERLAP ALL CUTS TO MAINTAIN FULL SLOT DEPTH FOR WIRES

3/8" X 2" MIN.

A-A

DETECTOR SEALANT (FLUSH W/ SURFACE)

A-A (AFTER INSTALLATION)
4" HOLE, FILL WITH SAND TO WITHIN 1 INCH OF TOP. TOP 1 INCH TO BE FILLED WITH EPOXY.

CAP CONDUIT

1" DIA. PVC STUB

8" MAX

LOOP WIRES

PULL BOX

LOOP CABLE

CONDUIT TO CONTROLLER

NOTE:

PATCH SLOT AND HOLE WITH EPOXY, REMOVE OVERFLOW BEFORE IT HARDENS.
NOTE:

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE DRAWING NO. 404.611 FOR METHOD OF INSTALLING PULL BOX.

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

SECTION A-A

WIRING DIAGRAM

SECTION B-B

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

SAWCAST DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCAST DETAILS.
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE PLANS

WINDING DIRECTION

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

DIRECTION OF TRAVEL

DIRECTION OF TRAVEL

WIRING DIAGRAM

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

1 INDUCTION LOOP
FOR 2 TRAVEL LANES

DATE  DWG. NO.  404.821  SHEET  1 OF 2
2 turns of wire shown. Always install 2 turns of cable in duct unless otherwise specified on plans. Winding direction shall be indicated on wire.

NOTE:

SEE DRAWING NO. 404.810 FOR METHOD OF INSTALLING PULL BOX

DEPT TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

DIRECTION OF TRAVEL

WINDING DIRECTION

SEE PLANS

DIRECTION OF TRAVEL

WIRING DIAGRAM

6'

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

2 INDUCTION LOOPS
FOR 2 TRAVEL LANES

DATE  DWG. NO.  404.821  SHEET  2 OF 2
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX.

SEE PLANS

DIRECTION OF TRAVEL

WINDING DIRECTION

A-A

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE.

3/8"

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

WINDING DIRECTION

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

DIRECTION OF TRAVEL

WIRING DIAGRAM

SEE PLANS

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

B-B

DIRECTION OF TRAVEL

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

3 INDUCTION LOOPS
FOR 3 TRAVEL Lanes
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX.

SEE PLANS 48" MAX

DIRECTION OF TRAVEL

WIRING DIAGRAM

A-A

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE.

3/8"

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

WINDING DIRECTION

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

4 INDUCTION LOOPS
FOR 4 TRAVEL Lanes

SPECIFICATION REFERENCE

DATE | DWG. NO. | SHEET
--- | --- | ---
404.823 | 2 OF 2
NOTES:

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

2. TRAFFIC ENGINEER SHALL ESTABLISH LATERAL LOCATIONS ON ROADS WITHOUT MARKED LANES.

---

WIRING DIAGRAM

THESE DIMENSIONS SHALL BE ADJUSTED TO CENTER LOOP IN TRAVEL LANE.

SAWCUT DIAGRAM

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE.

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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

3 INDUCTION LOOPS
FOR 3 TRAVEL LANES

DATE DWG. NO. SHEET
01/01/09 404.825 1 OF 1
NOTES:
1. FRONT OF THE LOOP MUST EXTEND INTO THE CROSSWALK 2' TO 4'.
2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
4. SEE DRAWING NO. 404.829 FOR WIRING CONNECTIONS.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

SEE DRAWING NO. 404.829 FOR WIRE CONNECTIONS. SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

WIRING DIAGRAM

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MULTIPLE LOOP SYSTEM FOR THRU LANE

DATE 12-12-96   DWG. NO. 404.826   SHEET 1 OF 1
NOTES:

1. FRONT OF THE LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.

2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)

3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.

---

WIRING DIAGRAM

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

SEE DRAWING NO. 404.829 FOR WIRE CONNECTIONS. SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
TYPE "QUADRUPOLE" LOOP INSTALLATION

WHENEVER MORE THAN ONE LOOP TERMINATES IN A PULL BOX, ALL LEADS MUST BE TAGGED AND IDENTIFIED.

NOTES:
1. FOR ALL LOOPS, TWO TURNS ARE REQUIRED.
2. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "QUADRUPOLE"
LOOP INSTALLATION

DATE DWG. NO. 404.828 SHEET 1 OF 1
SEE DRAWING NO. 404.827 FOR LOOP LAYOUT

SEE DRAWING NO. 404.826 FOR LOOP LAYOUT

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

WIRE DIAGRAMS FOR MULTIPLE LOOP SYSTEMS FOR LEFT TURN POCKET AND THRU LANE

DATE 12-12-96   DWG. NO. 404.829   SHEET 1 OF 1
NOTES:

1. INSULATION FOR EACH LOOP MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
2. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
3. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX. ALL WIRES TO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

SAWCUT DIAGRAM

WIRING DIAGRAM
**NOTES:**

1. CAST ALUMINUM HOUSING.
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.

---

FOR FLAT SURFACE MOUNTING

FOR SIGNAL STANDARD MOUNTING

FOR 2-1/2" IPS MOUNTING

---

**NOTES:**

1. AT LOCATIONS WHERE "WALK" "DON'T WALK" SIGNALS ARE PROVIDED, PROVIDE BLACK LETTERING ON A WHITE BACKGROUND ON PORCELAIN SIGNS.
2. AT LOCATIONS WHERE "SYMBOLIC" SIGNALS ARE PROVIDED, PROVIDE WHITE FIGURES ON A BLACK BACKGROUND.
3. MOUNTING SURFACE FOR THE SIGNS SHALL BE 9" X 12".

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**SPECIFICATION REFERENCE**

---

**UNIFORM STANDARD DRAWINGS**

---

**CLARK COUNTY AREA**

---

**PEDESTRIAN PUSH BUTTON DETECTORS**

---

**DATE** | **DWG. NO.** | **SHEET**
--- | --- | ---

---
PAINT: FLAT BLACK
SHOWN 3 SECTION, 12" SIGNAL HEAD WITH ELEVATOR PLUMBIZER
PAINT: FLAT BLACK
SHOWN 3 SECTION, 12" SIGNAL HEAD BACKPLATE WITHOUT ELEVATOR PLUMBIZER
PAINT: FLAT BLACK

SHOWN 5 SECTION, 12" SIGNAL HEAD BACKPLATE WITHOUT ELEVATOR PLUMBIZER
PAINT: FLAT BLACK

SHOWN 5 SECTION, 12" SIGNAL
HEAD BACKPLATE WITH
ELEVATOR PLUMBIZER

REFER TO DRAWING NO. 404.1029

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

LOUVERED BACKPLATE FOR
5 SECTION SIGNAL HEAD

DATE  DWG. NO.  SHEET 1 OF 1
<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>STANDARD DWG. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DOGLEG</td>
<td>404.1029</td>
</tr>
<tr>
<td>2.</td>
<td>ELEVATOR PLUMBIZER</td>
<td>404.1203</td>
</tr>
<tr>
<td>3.</td>
<td>POLE PLATE WITH WIRE GUIDE</td>
<td>404.1204</td>
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<tr>
<td>4.</td>
<td>2-WAY TIE BRACE</td>
<td>404.1200</td>
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<td>5.</td>
<td>3-WAY TIE BRACE</td>
<td>404.1200</td>
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<td>6.</td>
<td>4-WAY TIE BRACE</td>
<td>404.1200</td>
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<tr>
<td>7.</td>
<td>SPECIAL ELBOW</td>
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</tr>
<tr>
<td>8.</td>
<td>SPECIAL TEE</td>
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<tr>
<td>9.</td>
<td>MALLEABLE ELBOW-REAMED/SET SCREW</td>
<td>404.1206</td>
</tr>
<tr>
<td>10.</td>
<td>MALLEABLE ELBOW/SIDE OUTLET/REAMED/SET SCREW</td>
<td>404.1206</td>
</tr>
<tr>
<td>11.</td>
<td>MALLEABLE TEE, REAMED/SET SCREW</td>
<td>404.1206</td>
</tr>
<tr>
<td>12.</td>
<td>MALLEABLE TEE/SIDE OUTLET, REAMED/SET SCREW</td>
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<tr>
<td>13.</td>
<td>MALLEABLE CROSS, REAMED/SET SCREW</td>
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<tr>
<td>14.</td>
<td>MALLEABLE CROSS/SIDE OUTLET, REAMED/SET SCREW</td>
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<tr>
<td>15.</td>
<td>4-WAY CENTER HUB</td>
<td>404.1205</td>
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<tr>
<td>16.</td>
<td>POST TOP MOUNTED BRACKET</td>
<td>404.1202</td>
</tr>
<tr>
<td>17.</td>
<td>SIDE BRACKET MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
<td>404.1208</td>
</tr>
<tr>
<td>18.</td>
<td>POST TOP MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
<td>404.1207</td>
</tr>
<tr>
<td>19.</td>
<td>LOCKING RING</td>
<td>404.1200</td>
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<tr>
<td>20.</td>
<td>ORNAMENTAL CAP</td>
<td>404.1200</td>
</tr>
<tr>
<td>21.</td>
<td>POST TOP MOUNTED ADAPTER WITH 3 PORTS</td>
<td>404.1208</td>
</tr>
<tr>
<td>22.</td>
<td>LOCKING NIPPLE</td>
<td>404.1200</td>
</tr>
<tr>
<td>23.</td>
<td>POLE PLATE</td>
<td>404.1201</td>
</tr>
<tr>
<td>24.</td>
<td>1-1/2&quot; MENERALLAC STRAP OR APPROVED EQUAL</td>
<td>404.1029</td>
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</tbody>
</table>
NOTES:
1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
NOTES:

1. ON LOWER ASSEMBLY, ALL INDICATIONS ARE 12" NOMINAL (GLASS).

2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.

3. ON TOP ASSEMBLY, USE M-3 WITH BACKPLATE.

4. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.

5. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

6. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
NOTES:

1. PROVIDE BACKPLATE ON A-8T.
2. ALL INDICATIONS ARE 12" NOMINAL (GLASS).
3. SEE DRAWING NO. 404.1410 OR ARROW LENS.
4. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
A-8T, A-9T

DATE 2-11-93 DWG. NO. 404.1015 SHEET 1 OF 1
NOTES:
1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
3. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. PROVIDE BACKPLATE ON A-13T ONLY.
4. ALL SIGNALS ARE 12" NOMINAL (GLASS).
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
3. FOR ARROW LENS SEE DRAWING NO. 404.1410.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
3. FOR ARROW LENS SEE DRAWING NO. 404.1410.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
5. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL (GLASS).
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS)
2. FOR ITEMIZED PARTS, SEE DRAWING 404.1005.
NOTES:

1. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
2. ALL M-2 INDICATIONS ARE 12" NOMINAL (GLASS).
3. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
4. SEE SIGNAL PLANS FOR BALL OR ARROW INDICATIONS.
REVERSE MOUNTED INDICATION

PROVIDE LOUVERED BACKPLATE SIMILAR TO DRAWING 404.900

STANDARD 12" SIGNAL HEADS
M-2A

NOTES:

1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2A INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
5. THIS HEAD ASSEMBLY SHALL BE USED ONLY ON THE END OF THE MAST ARM.

<table>
<thead>
<tr>
<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS</th>
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<tr>
<td></td>
<td>CLARK COUNTY AREA</td>
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<tr>
<td></td>
<td>SCHOOL FLASHER</td>
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<td></td>
<td>MAST ARM SIGNAL ASSEMBLIES</td>
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<td>M-2A</td>
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</tbody>
</table>

DATE 3-10-05  DWG. NO. 404.1023A1  SHEET 1 OF 2
NOTES:

1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2B INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.

3. ALL INDICATIONS ARE 12" NOMINAL. SEE SUB-SECTION 623 T.02.08 FOR SPECIFICATIONS.

4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.

5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

6. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.

3. ALL INDICATIONS ARE 12" NOMINAL (GLASS).

4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.

5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

6. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-5T, B-6T

DATE 2-11-93   DWG. NO. 404.1025   SHEET 1 OF 1
NOTES:
1. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. ALL SIGNALS ARE 12" NOMINAL (GLASS) UNLESS NOTED.
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS SEE DRAWING 404.1005.
3. FOR ARROW LENS SEE DRAWING 404.1410.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
5. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEADS.

3. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.

4. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

5. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

SIGNAL ASSEMBLIES
B-12T, B-13T
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL. SEE SUB-SECTION 623 T.02.08 FOR SPECIFICATIONS.
5. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PROTECTED / PERMISSIVE
M-5 SIGNAL HEADS

DATE 5-12-94  DWG. NO.  404.1031  SHEET 1 OF 3
BACKPLATE TO MATCH
ORDER PART NO. E 2074
NOTES:
UNLESS OTHERWISE SPECIFIED

1 ASSEMBLY
## FW 2933 AND SIGNAL ASSEMBLY

FRAMEWORK -- CLUSTER MOUNTING
1 WAY, 5 COL., 12" ALUMINUM SIGNAL
WITH ELEVATOR PLUMBIZER

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<thead>
<tr>
<th>REF #</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>TOP BRACKET W/COVER</td>
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<td>E2051P1</td>
<td>BOTTOM BRACKET</td>
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<td>E1270P1</td>
<td>ADAPTOR RING</td>
<td>4</td>
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<td>E1206P</td>
<td>ORNAMENT</td>
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<td>E1251P1</td>
<td>WASHER, NEOPRENE</td>
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<td>CONDUIT LOCKNUT</td>
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<td>N210P23C</td>
<td>ATTACHING NUT</td>
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<td>FW0904G</td>
<td>ELEV. PLUMIZER, OLD STYLE (NO LONGER AVAILABLE)</td>
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<td>12</td>
<td>E4955P1</td>
<td>RED BALL LENS</td>
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<td>E4955P22</td>
<td>YELLOW BALL LENS</td>
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<td>14</td>
<td>E4955P3</td>
<td>GREEN BALL LENS</td>
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<td>15</td>
<td>E4960P2</td>
<td>YELLOW ARROW LENS</td>
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<td>16</td>
<td>E4960P3</td>
<td>GREEN ARROW LENS</td>
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<td>17</td>
<td>E2074G5</td>
<td>BACKPLATE</td>
<td>1</td>
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</table>
NOTES:

1. FOR GENERAL SPECIFICATIONS SEE TRAFFIC SIGNAL PLANS.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
3. THE HAND SYMBOL (DON'T WALK) IS PORTLAND ORANGE
   AND HUMAN SYMBOL (WALK) IS LUNAR WHITE.
NOTE: TAMPER-PROOF SCREWS TO BE USED.
STANDARD FULL CIRCLE VISOR

STANDARD ANGLE VISOR

VISORS (FOR 8" HEADS)
PAINT: FLAT BLACK ON INSIDE, OUTSIDE PAINT COLOR SHALL MATCH SIGNAL HOUSING.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

VISORS
FOR 8" SIGNALS

DATE  DWG. NO.  404.1100  SHEET  1 OF 3
STANDARD FULL CIRCLE VISOR

STANDARD ANGLE VISOR

SECTION A-A

SECTION B-B

6 VANE 3" CUTOFF

3 VANE 7" CUTOFF

DIRECTIONAL LOUVERS
PAINT: FLAT BLACK

VISORS (FOR 12" HEADS)
PAINT: FLAT BLACK ON INSIDE,
OUTSIDE PAINT COLOR SHALL MATCH SIGNAL HOUSING.
NOTE:
ALL BOLTS, NUTS AND WASHERS SHALL BE BRASS OR STAINLESS STEEL.
NOTES:
1. MATERIAL-BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.

1-1/2" PIPE THREADS

3/8" R (TYP.)

9/16"

3-1/2"

SECTION A-A

CURVED WASHER

5/8" HOLE

WASHER CURVED TO FIT STANDARD

NOTES:  DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.

SPECIFICATION REFERENCE  UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

POLE PLATE DETAILS

DATE  DWG. NO. 404.1201  SHEET 1 OF 1
FERROUS SPECIAL TEE
PAINT COLOR SHALL MATCH SIGNAL HOUSING

FERROUS SPECIAL ELBOW
PAINT COLOR SHALL MATCH SIGNAL HOUSING

72 TEETH - 1/16"
HIGH ALL AROUND

1-1/2" PIPE THREAD

72 TEETH - 1/16"
HIGH ALL AROUND

1-1/2" PIPE THREAD

6-3/8" X 5/8"
SQ. HD. SET SCREW (CADMIUM PLATED STEEL)

4-1/2"

4-5/8"
INSIDE

POST TOP MOUNTED BRACKET WITH SERRATED OFFSET MOUNT.

(USE FOR ALL POST TOP MOUNTINGS NOT REQUIRING SIDE PORTS)

MATERIAL: BRONZE
PAINT COLOR SHALL MATCH SIGNAL HOUSING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MISCELLANEOUS SIGNAL MOUNTING HARDWARE

DATE    DWG. NO.  404.1202    SHEET  1 OF 1
NOTES:
1. MATERIAL - BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING

ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE | DWG. NO. | SHEET
--- | --- | ---

ELEVATOR PLUMBIZER
NOTES:

1. MATERIAL-BRONZE

2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.

3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.
LIST OF MATERIALS

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<tr>
<td>1.</td>
<td>2</td>
<td>1/4&quot; - 20 UNC-2A X 3/8&quot; SOCKET, CUP SET SCREW</td>
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<tr>
<td>2.</td>
<td>1</td>
<td>CORK GASKET TO MATCH COVER</td>
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<tr>
<td>3.</td>
<td>1</td>
<td>3/32&quot; STEEL COVER WITH 2 BOLT HOLES OPPOSITE</td>
</tr>
<tr>
<td>4.</td>
<td>2</td>
<td>STANDARD LOCK WASHER</td>
</tr>
<tr>
<td>5.</td>
<td>5</td>
<td>3/8&quot; - 16 UNC-2A X 1&quot; BRASS HEX. HD CAP SCREW 2 REQ.</td>
</tr>
</tbody>
</table>

NOTES:
1. PAINT COLOR AND FINISHING SHALL MATCH SIGNAL HOUSING
2. MATERIAL: HIGH STRENGTH CAST ALUMINUM ALLOY
NOTES:

1. REAM FOR 1-1/2" IPS. PROVIDE SET SCREW.
2. ALL OTHER OPENINGS SHALL BE THREADED.
3. PAINT COLOR SHALL MATCH SIGNAL HOUSING.
6-3/8 x 5/8 SQUARE HEAD SET SCREW

WEATHERPROOF GASKET

SECTION A-A

COVER PLATE

OMIT HOLE AND BOSS ON TWO-WAY TERMINAL COMPARTMENT

SCREW TO BE CADMIUM PLATED STEEL

4-1/2" SLIP FITTER

NOTES:
1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL BLOCK MOUNTED INSIDE COMPARTMENT
NOTES:

1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL
   BLOCK MOUNTED INSIDE COMPARTMENT

FOR COVER, SEE DRAWING NO. 404.1207
NOTES:

1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.

2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.

3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER SPEC. EACH WITH TWO FLAT WASHERS, LOCK WASHER AND NUT.

4. ALL BOLTS, NUTS, AND WASHERS REQUIRED SHALL BE AS REGULARLY SUPPLIED BY THE MANUFACTURER.

5. ONE-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR ONE-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

6. TWO-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR TWO-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

7. TWO SIGNAL INDICATIONS SHALL BE MOUNTED BELOW THE MOUNT AND ALL REMAINING SIGNAL INDICATIONS MOUNTED ABOVE.

TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (2-1/2" I.D. - 4" O.D. - MINIMUM THICKNESS TOGETHER APPROX. 1-1/8") 11 G

FOUR 7/16" DIA. EQUALLY SPACED HOLES CENTERED ON A 4-3/4" DIA. CIRCLE.

ONE-WAY MOUNT
32 A
NOTES:

1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.

2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.

3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER SPEC. EACH WITH TWO FLAT WASHERS, LOCK WASHER AND NUT.

4. ALL BOLTS, NUTS, AND WASHERS REQUIRED SHALL BE AS REGULARLY SUPPLIED BY THE MANUFACTURER.

5. ONE-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR ONE-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

6. TWO-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR TWO-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

7. TWO SIGNAL INDICATIONS SHALL BE MOUNTED BELOW THE MOUNT AND ALL REMAINING SIGNAL INDICATIONS MOUNTED ABOVE.

ONE-WAY MOUNT FOR 3M SIGNALS

32 H

TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (2-1/2" I.D. - 4" O.D. - MINIMUM THICKNESS TOGETHER APPROX. 1-1/8")

FOUR 7/16" DIA. EQUIDISTANCED HOLES CENTERED ON A 4-3/4" DIA. CIRCLE.

OPENING WITH 1/4" x 1/4" "O" RING GROOVE, TOP & BOTTOM
NOTE:
FLANGE TO BE WELDED TO MAST ARM SLIPFITTER 4" FROM THE END.

FLANGE DETAIL 2" WELDED TYPE ADAPTER

FLAT WASHER (FOUR)
3/8" x 13/16" DIA. BOLT AND NUT (FOUR)
TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (TWO)
FLANGE WELDED TO MAST ARM OR FLANGE ADAPTOR (SEE DETAIL)

SIGNAL HEAD MOUNT

LOCK WASHER (FOUR)

FLAT WASHER (FOUR)
COUPLING FLANGE

MAST ARM

ASSEMBLY DETAIL

SECTION THROUGH ONE-WAY MOUNT

1/16" PROTRUSIONS SEE DETAIL "A"
3/32" x 3/32 "O" RING GROOVE BOTH SIDES 3/8"
3/64" DEEP x 3/8" WIDE CIRCULAR INDENTATION BOTTOM SIDE ONLY
1/16" PROTRUSIONS

FLANGE DETAIL 2" CLAMP TYPE ADAPTER

2-3/4" DIA. HOLE
5-3/4" DIA. 1/4" THK. MINIMUM
FOUR 7/16" DIA. HOLES EQ. SPACED ON A 4-3/4" DIA. BOLT CIRCLE

FLAT WASHER
2-3/8" O.D.

SAFETY CHAIN HOLE

FILLET WELD

ONE-WAY
TWO-WAY

1/2" 4-1/16" 5-3/4" 6-3/4" 4-1/16" 2-1/2" 2-7/8" 3/8" DIA.

14 B STEEL - 1/4"
14 B ALUMINUM - 3/8"

FOUR 1/16" PROTRUSIONS FOR SIGNAL HEAD DEPRESSIONS ON BOTH EXTERIOR SIDES.

DETAIL "A"
NOTE:

1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY’S TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

POLE LOCATION & SIGNAL
MOUNTING AT INTERSECTION
(TWO POLE)
OFFSET SIDEWALK

DATE 7-10-03 | DWG. NO. 404.1300 ALT | SHEET 1 OF 2
NOTE:
1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
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NOTE:
SIDEWALK RAMPS IN ACCORDANCE WITH DRAWING NO. 235 SHALL BE CONSTRUCTED. HANDICAPPED ACCESS MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
NOTE:
1. SEE PLANS FOR FOUNDATION TYPE.
NOTES:

1. FOUNDATIONS WILL BE 36" SQUARE OR ROUND AND 12 FT. DEEP. THE AREA SHALL REMAIN ACCESSIBLE FOR THESE FOUNDATIONS.

2. TRAFFIC SIGNAL POLES SHALL REMAIN AT THE MIDDLE OF THE RETURN BEHIND THE SIDEWALK SO THAT THE OUTSIDE SIGNALhead IS DIRECTLY ABOVE THE LEFT TURN LANE.

3. A TYPE "H" OR "L" FOUNDATION IS REQUIRED FOR MAST ARMS 45" OR LESS. SEE DRAWING NO. 404.208.

4. A TYPE "L" FOUNDATION IS REQUIRED FOR MAST ARMS LONGER THAN 45". SEE DRAWING NO. 404.209.

5. A MINIMUM OF 32" SHALL BE MAINTAINED BETWEEN TRAFFIC SIGNAL POLE FOUNDATION "CRASH CAP" AND THE BACK OF THE CURB FOR WHEELCHAIR CLEARANCE.

6. THE TRAFFIC ENGINEER WILL MAKE THE FINAL DETERMINATION FOR THE LOCATION OF TRAFFIC SIGNAL POLES.
NOTES:

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A123.

2. ELECTRIC UTILITY TO SHOW FEEDER TO SERVICE PEDESTAL.

3. FOR POLE, POLE FOUNDATION, SERVICE PEDESTAL AND SERVICE PEDESTAL FOUNDATION DETAILS, SEE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS.

4. EXTEND THE 2-2' PVC, THE 2-3' AND THE 1-PER TABLE PVC SCHEDULE 40, 5 FEET PAST EDGE OF PAVEMENT STUB AND CAP OR CONNECT TO THE EXISTING TRAFFIC SIGNAL CONDUIT.

5. ALL EMPTY CONDUIT WILL CONTAIN A SINGLE NO. 8 AWG THW OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT.
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL TRAFFIC SIGNAL UNDERGROUND LAYOUT WITH INTERIM STREET LIGHTING AND SERVICE PEDESTAL (END OF CURVE RADIUS)

DATE 3-13-03  DWG. NO. 404.1306  SHEET 2 OF 2
SPECIFICATIONS:

THE ARROW LENS SHALL BE GLASS AND CONFORM TO THE SPECIFICATIONS AS SET FORTH IN TECHNICAL REPORT NO. 1, REVISED 1966, BY THE INSTITUTE OF TRAFFIC ENGINEERS AND APPROVED AS A STANDARD BY THE UNITED STATES OF AMERICA STANDARD INSTITUTE. ANY FUTURE REVISIONS ACCEPTABLE AND ADOPTED BY THE U.S.A.S.I. SHALL AUTOMATICALLY BE PART OF THIS DRAWING SPECIFICATION.
SERVICE PEDESTAL ENCLOSURE, 12 GA. SHEET METAL BODY AND EQUIPMENT MOUNTING PANEL, 14 GA. FRONT COVER(S) AND 16 GA. MIN. FOR ALL OTHER PANELS. ALL SHEET METAL SHALL BE FINISHED WITH ZINC CHROMATE PRIMER AND GREEN BAKED ENAMEL OR POWDER COAT FINISH. METERING SECTION PER P.U.E.S.E.R. STANDARDS.

UTILITY METER SECTION, 100, 125 OR 200 AMP AS NEEDED, 120/240 VOLT, 1 PHASE, 3 WIRE. THE SECTION SHALL HAVE A HINGED COVER WITH PADLOCK TAB.

CIRCUIT BREAKER DISTRIBUTION SECTION, 100, 125 OR 200 AMP AS NEEDED, 120/240 VOLT, 1 PHASE, 3 WIRE. THE SECTION SHALL BE COMPLETE WITH SEPARATE DEAD FRONT, COPPER BUSSING, SPACE FOR A MINIMUM OF TEN FULL SIZE "(1)" GE TYPE PLUG-IN CIRCUIT BREAKERS (EXCLUDING MAIN BREAKER), COPPER NEUTRAL/GROUNDING BUS AND MAIN BREAKER AS SPECIFIED BY THE ENGINEER. THE SECTION SHALL BE FACTORY WIRED TO THE METER SECTION WITH THE APPROPRIATE SIZE COPPER CONDUCTORS.

EQUIPMENT MOUNTING PANEL, 10" H X 12" W MIN., OPEN OR ENCLOSURED, FOR LIGHTING CONTACTORS AS NEEDED.

DISTRIBUTION AND EQUIPMENT SECTION COVER WITH PADLOCK TAB.

BASE AND ENCLOSURE WIDTH (16" TYP.)

BASE DEPTH (16" TYP.)

ENCLOSURE DEPTH (17" TYP.)

UTILITY METER SECTION

CIRCUIT BREAKER DISTRIBUTION SECTION

EQUIPMENT MOUNTING PANEL

UTILITY SERVICE ENTRANCE CONDUCTOR PULL SPACE PER SERVING UTILITY REQUIREMENTS.

PULL SPACE ACCESS DOOR WITH HANDLE, PER SERVING UTILITY

SEPARATE PEDESTAL ENCLOSURE MOUNTING BASE.

TYPICAL MOUNTING BASE DETAIL

(DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER)

SPECIFICATION REFERENCE

| 506 | STEEL STRUCTURES |
| 623 | TRAFFIC SIGNALS & STREETLIGHTING |

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SINGLE METER SERVICE PEDESTAL

DATE 12-12-96 DWG. NO. 404.1412 SHEET 1 OF 1
SERVICE ENTRANCE WEATHERHEAD

2" RIGID GALVANIZED STEEL CONDUIT

2-HOLE PIPE STRAPS SPACED 5 FEET APART

METER SOCKET (PER UTILITY'S REQUIREMENTS) FACE METER AWAY FROM TRAFFIC.

SINGLE PHASE, 3 WIRE, 120/240 VAC CIRCUIT BREAKER LOAD CENTER, MAIN LUGS ONLY, NEMA 3R (RAIN-TIGHT) ENCLOSURE WITH PADLOCKING PROVISIONS, AND A minimum of eight (8) single spaces. BUSSING SHALL BE COPPER FOR LOAD MAINS AMPERE RATING, AND/OR CIRCUIT BREAKER RATINGS, NUMBER OF POLES AND QUANTITY, SEE PLANS.

NO. 4 AWG GROUNDING CONDUCTOR ENCASED IN 1/2" E.M.T.

FINISHED GRADE

EQUIPMENT GROUNDING: MINIMUM OF 20 FEET OF SOLID NO. 4 AWG BARE COPPER WIRE, SPIRAL WRAPPED AROUND POLE WITH A 1/2 INCH PITCH. SEE NOTE 2.

PVC TO STEEL CONDUIT ADAPTOR

2" PVC CONDUIT TO TRAFFIC SIGNAL CONTROLLER CABINET (SEE PLANS FOR WIRE QUANTITY AND GAGES)

PVC COATED OR WRAPPED WITH 10 MIL CORROSION PROTECTIVE TAPE, 1/2 LAPPED, RIGID GALVANIZED STEEL 90° ELBOW, 24" MIN. RADIUS

NOTES:

1. ALL WIRES TO BE COPPER; SEE PLANS FOR QUANTITY AND GAGES.
2. WITH ENGINEER'S APPROVAL, AN 8 FT. BY 5/8 IN. COPPER-CLAD GROUNDING ROD MAY BE USED.
3. ALL CONDUIT FITTINGS TO BE WATER-TIGHT.
NOTE:

THERMOSTAT, FAN WIRING, AND TERMINAL BLOCK CONNECTIONS NOT SHOWN.

AC+ LIGHTS

125 V. AC 60 HZ. SERVICE

AC+ FOR CONTROLLER, AUX. EQUIPMENT TIMING DEVICES AND DETECTOR AMPLIFIERS.

NOTES:
1. MAIN SWITCH.
2. 30 AMP CIRCUIT BREAKERS.
3. SIGNAL FLASH SWITCH INSIDE CABINET.
4. AUXILIARY DOOR SIGNAL FLASH SWITCH.
5. NEMA STD. PLUG RECEPTACLE WITH GROUNDING CONTACT.
6. RADIO FREQUENCY INTERFERENCE SUPPRESSOR.
7. SOLID STATE SIGNAL FLASHER (CABINET MFR. TO DETERMINE POLES AND CAPACITY, UNLESS OTHERWISE SPECIFIED)
8. SIGNAL FLASHING CONTROL RELAYS.
OPEN TRENCH

LIP OF GUTTER

PULL BOX (SIZE SPECIFIED ON PLANS)

END OF CONDUIT SHALL BE FITTED WITH BUSHINGS

36" MIN. RADIUS - USE ONLY 20 MIL OR THICKER PVC COATED RIGID IRON CONDUIT FOR BEND AREA. SEE SPECIFICATIONS.

EXCAVATE UNDER EXISTING CURB & GUTTER DO NOT REMOVE C & G.

CONNECTOR

CONTINUE CONDUIT RUN WITH A MINIMUM OF 5 FT. OF PVC COATED R.I.C. SEE CLARK COUNTY AREA SPECS.

FILL WITH SAND AND COMPACT AS REQUIRED BY FIELD ENGINEER

NOTE! DO NOT MAKE COMPOUND BENDS IN CONDUIT

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UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

INSTALLATION OF CONDUIT INTO PULL BOX FROM LIP OF GUTTER TRENCH

DATE    DWG. NO.  404.1418  SHEET 1 OF 1
The contractor shall use PVC coated rigid iron conduit conforming to specifications.

**TYPICAL CONDUIT LOCATIONS**

- PVC FOR CONTINUATION
- Rigid iron conduit to PVC conduit connector
- B.C. radius varies
- Connectors
- Trench
- Curb & gutter (24"
- 6" max.

**NEW CONSTRUCTION**

1. Lip of gutter
2. A/C patch
3. Seal coat
4. 4" min.
5. 9" typ.
6. Sawcut existing pavement and apply tack coat to all vertical surfaces

**NOTES (RETROFIT):**

1. Depth to match existing A/C pavement, but not less than 4", placed in multiple lifts of equal thickness.
2. Patch width shall be sufficient to accommodate mechanical placement using agency approved spreader box or paving machine, rolling and compaction per uniform standard specification section 401.03.11.
3. If sawcut is within 3 feet of edge of existing asphalt concrete surface or other patch, remove existing pavement to that edge and replace entire section.
4. If 24" cover is not possible, then red concrete encasement min. 4" above conduit required.
5. Controlled low strength material (CLSM) may be installed to final grade for temporary patching.
6. Permanent patch mix design shall be as required by engineer.

**INSTALLATION OF CONDUIT**

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**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**DATE** 5-17-01 **DWG. NO.** 404.1419 **SHEET** 1 OF 1
Effective 01/01/09 - 06/30/09

CCTV CAMERA
COHU 3965 - 4101
(OR APPROVED EQUAL)

CABLE AND CONNECTOR:
PART OF CAMERA ACCESSORY

POLE CAP

1/2 S.S. ALL THREAD w/SINGLE S.S. FLAT WASHER
AND DOUBLE S.S. NUTS (EACH SIDE) TO EXTEND
COMPLETELY THROUGH POLE AND CAP (2-ALL-
THREAD BOLTS REQ'D PER POLE WITH EACH
OFFSET TO EXTEND THROUGH POLE)

WEATHER PROOF
MS STYLE CONNECTOR

TRAFFIC SIGNAL POLE

CONNECTS TO CA295H CABLE
(MALE)

CONNECTS TO CAMERA
ACCESSORY
(FEMALE)

CABLE (COHU MODEL CA295H
OR APPROVED EQUAL)
SEE CABLE WIRING DIAGRAM
(DWG. NO. 000.000, SHEET 2 OF 3)

CONNECT TO BACK OF LOCAL
CCTV CAMERA CONTROL UNIT
COHU 9300 SERIES i-CONTROL
(OR APPROVED EQUAL IN TRAFFIC
CONTROLLER CABINET)
(MALE)
(SEE DWG. NO. 404.1500, SHEET 2 OF 3)

FOR CCTV AND CONTROL UNIT DETAILS
SEE 687 SPECIFICATIONS.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CLOSED CIRCUIT TELEVISION
CAMERA

SPECIFICATION REFERENCE

DATE 11-8-07  DWG. NO. 404.1500  SHEET 1 OF 3
CAMERA ADAPTER STAND
(REQUIRED FOR POLE CAP MOUNTING)

- MAT'L (FLANGE): 1018 STEEL OR EQUIV.
- MAT'L (TUBE): Ø 3.5 X 1/8 WALL 1018 STEEL OR EQUIV

3. FINISH: YELLOW CHROMATE CONVERSION COAT TYPE I
   PER MM-42 OR MIL-C-5541B CLASS 1A

4. PAINT ALL SURFACES LIGHT GRAY METAL FINE USING
   3310042-478 PER MM-33 OR FEDERAL TEST METHOD STD NO.141,
   FINE TEXTURE OUTSIDE SURFACE ONLY AND OVERSPRAY PERMITTED.

5. REMOVE ALL BURRS AND SHARP EDGES 0.015 MAX

NOTE:
A 10' EXTENSION PROVIDED WHEN REQUIRED
DESIGNED BY INSTALLER AND APPROVED BY RTC-FAST.