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.rtcsonthernnevada.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.
**PROPOSED**

- STREET NAME SIGN INTERNALLY ILLUMINATED
- CURB FLASHER
- VEHICLE MOVEMENT (STOPPED)
- VEHICLE MOVEMENT (MOVING)
- CONDUIT RUN NUMBER
- PEDESTRIAN MOVEMENT
- TRAFFIC SIGNAL ON MAST ARM
- TRAFFIC SIGNAL AND LUMINAIRE ON MAST ARMS
- PEDESTRIAN PUSH BUTTON INDICATING DIRECTION OF CONTROL
- TRAFFIC SIGNAL WITH ALL COLORS LOUVERED
- SCHOOL FLASHER
- 5 SECTION SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE
- PRIORITY VEHICLE PREEMPTION OPTICAL DETECTOR (OPTICOM OR APPROVED EQUAL)

**EXISTING**
QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)

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

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SPECIFICATION REFERENCE

<table>
<thead>
<tr>
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<tr>
<td>CLARK COUNTY AREA</td>
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NO. 5 PULL BOX

<table>
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<tr>
<th>DATE</th>
<th>DWG. NO.</th>
<th>SHEET</th>
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<tr>
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<td>404.120</td>
<td>1 OF 1</td>
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</table>
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

NO. 7 PULL BOX

DATE  DWG. NO. 404.130  SHEET  1 OF 1
NOTES:

1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.
NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAVEL OR PARKING LANES.
ADJUSTABLE TORSION SPRING ASSISTED STEEL COVER MARKED "FIBER OPTIC"

CABLE RACK

GROUNDING RIBBON

PRECAST CONCRETE MATERIAL

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

AVAILABLE IN #3, #5, & #7 SIZES
(3 GAUGE STEEL)
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.
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.
RIGID CONDUIT BEND
3' MINIMUM RADIUS

FIBER OPTIC CABLE

5' TYP.
TO NEAREST EXISTING
CONSTRUCTION JOINT

A

A

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

SAWCUT

10' TYP.
TO NEAREST EXISTING
CONSTRUCTION JOINT

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

EXISTING CONCRETE
SIDEWALK

4" PVC CONDUIT

12" MIN
CLEARANCE

CONDUIT BEND

10' 11' 10' 11' 10'
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.
PULL BOX CONCRETE COLLAR IN UNDEVELOPED AREAS

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".
BACK OF SIDEWALK

FIBER OPTIC CABLE

NEW CONCRETE SIDEWALK

INTERCONNECT CABLE

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

8" MIN

PVC CONDUIT

DEPTH AS REQUIRED

CAP

FIBER OPTIC CABLE

EXTEND CONDUIT 3" INTO THE BOX

4" MIN. CLEARANCE

TYPE 2 GRAVEL 12" DEPTH

INTERCONNECT CABLE

PVC CONDUIT

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ITS COMMUNICATION CONDUIT
AND PULL BOX DETAIL
INSTALLED UNDER NEW SIDEWALK

DATE 3-13-08  DWG. NO. 404.144  SHEET 1 OF 1
Effective 01/01/11 - 06/30/11

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 1/4" 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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "A" FOUNDATION

DATE 9-14-00  DWG. NO.  404.201  SHEET 1 OF 1

623G.03.06 FOUNDATION

623T.02.02 ANCHOR BOLT
2" CONDUIT

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

USE TEMPLATE PROVIDED BY MFR.

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

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED

4" CAP

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

STANDARD GROUNDING PLATE PER NEC 250-83

24" DIA. OR 18" SQ.

15# FELT (2 LAYERS)

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "C" FOUNDATION

DATE 9-14-00  DWG. NO. 404,203  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.

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<thead>
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<th>POLE GA.</th>
<th>BOLT &quot;E&quot;</th>
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<tr>
<td>11</td>
<td>SEE POLE DRAWING</td>
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<tr>
<td>7</td>
<td>1-1/8&quot; X 40&quot; X 4&quot;</td>
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<td>3</td>
<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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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

6" X 6" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

SPECIFICATION REFERENCE

623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "E" FOUNDATION

DATE 9-14-00 DWG. NO. 404.205 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 CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

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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

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

SPECIFICATION REFERENCE
623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "F" FOUNDATION

DATE 9-14-00 DWG. NO. 404,206 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 CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

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NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3'11" 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

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

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "G" FOUNDATION

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.

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

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

1 3/4" X 60" X 6" BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN. - 6" MAX. CONCRETE CAP

10'-0" MESH HEIGHT

6" X 6" 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 "H" FOUNDATION

DATE 9-14-00 DWG. NO. 404.208 SHEET 1 OF 1
NOTES:

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

2. ANCHOR BOLT MINIMUM YIELD STRENGTH Fy = 50 KSI.

3. SURROUNDING SOIL MUST HAVE SOIL-BEARING PRESSURE S1 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.

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE

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.

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

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 36" 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
8" X 8" HOLLOW CORE. DEPTH VARIES. USE AROUND EXISTING PIPE PEDESTAL WHEN APPLICABLE.

6' OF #4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION CONNECT GROUNDING WIRE TO GROUNDING POINT.

2" PVC CONDUIT TO BE ADDED IN EVERY FOUNDATION FOR FUTURE USE. POINT TOWARD INTERSECTION.

BRONZE GROUNDING CONNECTOR

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 5

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "I" FOUNDATION

DATE 9-14-00  DWG. NO. 404.211  SHEET 1 OF 1
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.
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.
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

"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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE V
CABINET

DATE 12-12-96 DWG. NO. 404.304 SHEET 1 OF 1
"P" 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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE VI
CABINET

DATE 12-12-96  DWG. NO. 404.305  SHEET 1 OF 1
INSIDE BOLT PATTERN DETAIL

SIDE VIEW

VENT FOR FAN

SHELVES (3)

POLICE PANEL

LOCKABLE 3/4" STAINLESS STEEL HANDLE, MIN. LENGTH = 7"

BOLTED ON FULL-LENGTH PIANO HINGE

FRONT VIEW

REINFORCING BRACE INSIDE BOTTOM OF CABINET FRAME

NOTE:
1. MATERIAL = 0.125" ALUMINUM
2. INTERIOR AND EXTERIOR COATING TO BE DETERMINED BY THE AGENCY.
3. SHELVES SHALL BE REMOVABLE AND ADJUSTABLE FOR VERTICAL SPACING.
4. DOOR SHALL LOCK AT THREE POINTS.
5. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATIONS, SEE DRAWING No. 404.213.
6. INCLUDE 3/4" X 18" X 5" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
"RR" CABELINET

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.
NOTE:

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.


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.

FOR "F" TYPE FOUNDATION SEE DRAWING NO. 404.206

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

BASE COVER
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
PEDESTRIAN PUSH BUTTON
FOR 2 1/2" POSTTOP MOUNTING

PLAN OF BASE

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. 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.
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
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. HANDHOLE 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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<td>15</td>
<td>4.95</td>
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<td>37'-0&quot;</td>
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LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

REMOVABLE POLE TOP

11 GA. ROUND TAPERED ARM

PROVIDE WIRE GUIDE INTO SHAFT SEE SHEET 2 THIS DWG. NO.

A

LENGTH "L" SEE SIGNAL PLANS OR CONTRACT

A

LENGTH "T1" SEE SIGNAL PLANS OR CONTRACT

A

LENGTH "T2" SEE SIGNAL PLANS OR CONTRACT 5? MFG. RISE

A

TAPERED MAST ARM

PROVIDE WIRE GUIDE INTO SHAFT SEE SHEET 2 THIS DRAWING NO.

2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBIZER

DETAIL A-A

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. 404.208

SPECIFICATION REFERENCE

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
**Effective 01/01/11 - 06/30/11**

**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.

**LUMINAIRE ARM CONNECTION DETAIL**

**POLE MOUNTING DETAIL**

**CAP END OF MAST ARM**

**BOLTS 4-EA. 1-1/2"x4" A325-X**

**1/4" THK. GUSSETS**

**3/4"**

**1"**

**16 1/2" DIA. BOLT CIRCLE**

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

**1/2" N.C. BASE COVER**

**1-3/4"x60"x6" BOLT**

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

**LUMINAIRE ARM CONNECTION DETAIL**

**CAP END OF MAST ARM**

**BOLTS 4-EA. 1-1/2"x4" A325-X**

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

**4-1/2"x7" MIN. (INSIDE DIM.) HANDHOLE AND COVER (LOCATED 180 deg. OPPOSITE MAST ARM)**

**1/2" SCH. 40 PIPE WIRE ENTRY (EDGES DEBURRED) 3" HOLE IN SHAFT.**

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

**7/16" DIA. THRU HOLE**

**1/4" SCH. 40 PIPE TENON (2.375 O.D)**

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

**SPECIFICATION REFERENCE**

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<tr>
<th>UNIFORM STANDARD DRAWINGS</th>
<th>CLARK COUNTY AREA</th>
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<tr>
<td>TYPE XX - 30'-0&quot; SIGNAL &amp; LUMINAIRE POLE DETAILS</td>
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**DATE 9-14-06**

**DWG. NO. 404.406**

**SHEET 2 OF 6**
LUMINAIRE ARM DATA

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LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

REMOVABLE POLE TOP

11 GA. ROUND TAPERED ARM

PROVIDE WIRE GUIDE INTO SHAFT
SEE SHEET 4 THIS DRAWING NO.

30" ROUND TAPERED STEEL SHAFT

18.5"

15"

2.1/4"

6"

6-3/4"

2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBIZER

DETAIL A-A

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.

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

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - A - 30'-0"

SIGNAL & LUMINAIRE POLE
(50' THRU 60' MAST ARMS)

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

HANDHOLE
AND COVER
(SHALL FACE
AWAY FROM
ONCOMING
TRAFFIC)

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

NOTE:

EACH CONDUCTOR SHALL
HAVE A MINIMUM OF 18
INCHES OF SLACK

SPLIT-BOLT
CONNECTOR

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

3"

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

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)
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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<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. 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
Effective 01/01/11 - 06/30/11

ALTERNATE SIGN INSTALLATION

65' THRU 85' SPANS ALTERNATE LOADING

3.3 FT. 2
60 LB.
15' MAX.
37' MAX.

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

MAX. 85' SPAN

TYPE XX-B

<table>
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<tr>
<th>DEVICE</th>
<th>DESCRIPTION</th>
<th>PROJ. AREA (FT²)</th>
<th>WEIGHT (LBS)</th>
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<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>
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<td>C</td>
<td>SIGN R3-4 24&quot; X 24&quot;</td>
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<td>F</td>
<td>SIGN STREET NAME-FREE SWINGING-1.68&quot; X 8'</td>
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<td>H</td>
<td>SIGNAL DUAL-PEDESTRIAN</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.
DRILLING DETAIL

PLACEMENT DETAIL (TOP VIEW)

RED LIGHT RUNNING INDICATOR

NOTES:

1. CONTRACTOR TO INSTALL RED LIGHT RUNNING INDICATORS, MCCAIN MODELS M51385 (RED) & M51448 (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 BUSS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE ON TRAFFIC SIGNAL PLANS.

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
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. PHOTOCYB EY 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.

---

**UNIFORM STANDARD DRAWINGS**
**CLARK COUNTY AREA**

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

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

4.506" ± .003" HOLE DIA.

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.

1/4" X 4" GUSSETS - 4 REQUIRED

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

BASE ADAPTOR PLATE
FOR TYPE "L" FOUNDATION

DATE 12-12-96  DWG. NO. 404.409  SHEET 2 OF 2
BACK VIEW OF SIGN

REMovable MAST ARM END CAP

LUMINAIRE PIPE TENON AS REQUIRED

=35' MTG. HT.

15' ARM LENGTH MAX (SEE PLANS)

REMovable POLE TOP

11 GA. ROUND TAPERED ARM

 PROVIDE WIRE GUIDE INTO SHAFT

 PROVIDE WIRE GUIDE INTO SHAFT

5" MFG. RISE

SCHOOL

SPEED LIMIT

WHEN FLASHING

M-2A

M-2B

SCHOOL

SPEED LIMIT

WHEN FLASHING

FRONT VIEW

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

4" X 7" (INSIDE DIM.) HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

BASE COVER

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
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.
SEE DRAWING NO. 404.417 FOR STREET NAME SIGN DETAILS.

SEE DETAIL A FOR PIPE LENGTH.

SEE DETAIL A

2-1/2" SCH. 40 PIPE (LENGTH 10'-0"").

ANGLE BRACE

3/4" CLEARANCE HOLE

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

BACK BRACE ASSEMBLY

DETAIL A

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.
NO UTILITY CABLE LINES TO BE INSTALLED IN THIS AREA

NOTES:

1. OVERHEAD UTILITY 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 SIGN FACE 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.
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 CWHO 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.
FLAG MOUNT ATTACHMENT DETAIL
NOT TO SCALE

① ALUMINUM ANGLE WELDED TO INSIDE OF EXTRUDED CABINET
② NUTS WELDED TO ANGLE
③ 1/2" X 1 1/2" BOLTS
④ BRACKET FABRICATED FROM 3/8" PLATE STEEL
⑤ 5/16" SET SCREWS INTO POLE

TRAFFIC POLE

BRACKET DETAIL
NOT TO SCALE

DIAMETER VARIES

3"
2.5"
1" GAP
4.25"
5"
1.75"
2.25" TYP.
7.5"
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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED BRACKET DETAIL

DATE 11/10/05  DWG. NO. 404.417A  SHT 3 OF 3
NOTES:
1. THE BRACKET AND STRAP ARE OF THE BANDIT TYPE OR EQUIVALENT.
2. 2 BRACKETS ARE REQUIRED; AND IF THE SIGN IS GREATER THAN 48" IN SIZE - 3 BRACKETS ARE REQUIRED.
SEE DRAWING NO. 404.417 FOR STREET NAME SIGN DETAILS

WHITE ON GREEN VIP DIAMOND GRADE 6" SERIES E NO BORDER

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.
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.

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

HALF CLAMP SIMILAR TO PUMCO PART NO. 769-6

3/4" CLEARANCE HOLE

6" DIA.

6"
(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" RISE

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

21' 7/8" R.

EXISTING ROUND STEEL POLE
W/ SIMPLEX ATTACHMENT

CLAMP

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

BRACKET RATING
MAX. LUMINAIRE AREA = 2.7 FT²
MAX. LUMINAIRE WT. = 57 LBS.
NOTES:
1. DRILLING OF POLE TO BE ORIENTED ACCORDING TO POLE LAYOUT, SPECIFICATIONS, AND ENGINEER.
2. DIMENSIONS ARE FROM SIDEWALK 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.
5. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS AND PLUMBING NOT LESS THAN 7" NOR MORE THAN 10" ABOVE SIDEWALK LEVEL. TRAFFIC SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS AND PLUMBING NOT LESS THAN 10" ABOVE SIDEWALK LEVEL.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

POLE DRILLING DETAILS

DATE 05/20/10  DWG. NO. 404.600
NOTE:

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

3/8"

WIRING DIAGRAM

SECTION A-A

SECTION B-B

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

3/8"

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
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 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 SAWCUTDETAILS.

1 INDUCTION LOOP FOR 2 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.

WINDING DIRECTION

DIRECTION OF TRAVEL

SEE PLANS

DIRECTION OF TRAVEL

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

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

6'

B-B

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.

WINDING DIRECTION

SEE PLANS

DIRECTION OF TRAVEL

WIRING DIAGRAM

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

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
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:

WINDING DIRECTION

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

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

A-A

3/8"

B-B

3/8"

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

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3 INDUCTION LOOPS
FOR 3 TRAVEL LANES

DATE | DWG. NO. | SHEET |
-----|----------|-------|
|      | 404.822  | 2 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.

Winding Direction

See plans 48" max

Direction of travel

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

Sawcut diagram

See drawing no. 404.810 for sawcut details.
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:

WINDING DIRECTION

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

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

DIRECTION OF TRAVEL

WIRING DIAGRAM

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

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

* Professional electrical engineer stamp on file.

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4 INDUCTION LOOPS
FOR 4 TRAVEL LANES

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

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

SAWCUT DIAGRAM

SEE PLANS

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

3 INDUCTION LOOPS
FOR 3 TRAVEL LANES
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
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.

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.
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'.

TYPE "QUADRUPOLE" LOOP INSTALLATION

#12 WIRE SEE SPECIFICATIONS

DIRECTION OF TRAVEL

WIRING DIAGRAM

AS ON PLANS

ADJACENT PULL BOX
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.
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".
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

2" R.  24"  5.5"

80.5"
**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: 05/20/10  DWG. No.: 404.903

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Effective 01/01/11 - 06/30/11
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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>
</tr>
</tbody>
</table>
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.
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.
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.
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.

STANDARD 12" SIGNAL HEADS
M-2B

PROVIDE LOUVERED BACKPLATE SIMILAR TO DRAWING 404.900
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".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-1T, B-2T, B-3T

DATE: 10-9-08    DWG. NO. 404.1024    SHEET 1 OF 1
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".
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".
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-14T

DATE : 10–9–08 | DWG. NO. 404.1029 | SHEET 1 OF 1
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.
LEFT TURN YIELD ON GREEN

R10-12
24" X 30" MIN.

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.

SIDE VIEW

PLUMBIZER

BACKPLATE

12' POLE

5'
BACKPLATE TO MATCH
ORDER PART NO. E 2074
NOTES:
UNLESS OTHERWISE SPECIFIED

1 ASSEMBLY
<table>
<thead>
<tr>
<th>REF #</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>REQ.</th>
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<tr>
<td>1</td>
<td>FW2933</td>
<td>ASSEMBLY</td>
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<tr>
<td>2</td>
<td>E205P1</td>
<td>TOP BRACKET W/COVER</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>E2051P1</td>
<td>BOTTOM BRACKET</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>E1270P1</td>
<td>ADAPTOR RING</td>
<td>4</td>
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<td>5</td>
<td>E1206P</td>
<td>ORNAMENT</td>
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<td>6</td>
<td>E1251P1</td>
<td>WASHER, NEOPRENE</td>
<td>1</td>
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<tr>
<td>7</td>
<td>55712P6</td>
<td>CONDUIT LOCKNUT</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>E789P1</td>
<td>ATTACHING WASHER</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>E788P2</td>
<td>ATTACHING BOLT</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>N210P23C</td>
<td>ATTACHING NUT</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>FW0904G</td>
<td>ELEV. PLUMIZER, OLD STYLE (NO LONGER AVAILABLE)</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>E4955P1</td>
<td>RED BALL LENS</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>E4955P22</td>
<td>YELLOW BALL LENS</td>
<td>1</td>
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<tr>
<td>14</td>
<td>E4955P3</td>
<td>GREEN BALL LENS</td>
<td>1</td>
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<td>15</td>
<td>E4960P2</td>
<td>YELLOW ARROW LENS</td>
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</tr>
<tr>
<td>16</td>
<td>E4960P3</td>
<td>GREEN ARROW LENS</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>E2074G5</td>
<td>BACKPLATE</td>
<td>1</td>
</tr>
</tbody>
</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.
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.  SHEET
404.1100  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.

NOTES: DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.
NOTES:
1. MATERIAL - BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING

ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ELEVATOR PLUMBIZER

DATE  DWG. NO.  SHEET

404.1203  1 OF 1
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.

SECTION A-A

WASHER CURVED TO FIT STANDARD

1-1/2" PIPE THREADS

3/8" R (TYP.)
**LIST OF MATERIALS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QU.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2</td>
<td>1/4&quot; - 20 UNC-2A X 3/8&quot; SOCKET, CUP SET SCREW</td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>CORK GASKET TO MATCH COVER</td>
</tr>
<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

---

**SPECIFICATION REFERENCE**

- **UNIFORM STANDARD DRAWINGS**
  - **CLARK COUNTY AREA**

- **4 WAY CENTER HUB**

- **DATE**
- **DWG. NO.** 404.1205
- **SHEET** 1 OF 1
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.

STANDARD MALLEABLE PIPE HARDWARE - 1-1/2" IPS
6-3/8 x 5/8 SQUARE HEAD SET SCREW

WEATHERPROOF GASKET

SECTION A-A

COVER PLATE

5-1/2" MIN.

15" MIN.

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

POST TOP MOUNTED ADAPTER
WITH TERMINAL COMPARTMENT

DATE  DWG. NO.  404.1207  SHEET  1 OF 1
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.

2" DIA. OPENING WITH 3/32" X 3/32" "O" RING GROOVE TOP & BOTTOM 25 E

APPROX. 1-1/2"

APPROX. 3-3/4"

3/16" O.D.

ONE-WAY SIGNAL HEAD MOUNT 11 A

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
NOTE:
1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
NOTE:

1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
NOTE:
1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
NOTE:
1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
PED. PUSH BUTTONS. SEE 404.406 FOR DRILLING DETAILS.

MOUNT SIGNAL ASSEMBLIES ON SIDE OF POLE, 180° OPPOSITE OF CURB LINE AS SHOWN. SEE DWG. 404.600 FOR DRILLING DETAILS.

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 SIGNAL HEAD 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.
TABLE

<table>
<thead>
<tr>
<th></th>
<th>&lt; OR = 80 FT., ROW*</th>
<th>80 FT. TO 100 FT. ROW**</th>
<th>100 FT. OR GREATER ROW***</th>
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<tbody>
<tr>
<td>FOUNDATION</td>
<td>TYPE &quot;H&quot;</td>
<td>TYPE &quot;L&quot;</td>
<td>TYPE &quot;M&quot;</td>
</tr>
<tr>
<td>POLE</td>
<td>XX-30'</td>
<td>XX-A-30'</td>
<td>XX-B-30'</td>
</tr>
<tr>
<td>LUM. ARM</td>
<td>15'</td>
<td>15'</td>
<td>15'</td>
</tr>
<tr>
<td>LUMINAIRE</td>
<td>400w/120v</td>
<td>400w/120v</td>
<td>400w/120v</td>
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<tr>
<td>LVACTS COMM.</td>
<td>3&quot;</td>
<td>3&quot; (80 FT.)</td>
<td>4&quot; (100 FT.)</td>
</tr>
</tbody>
</table>

* USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.
** USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.
*** USE ONLY WHEN DIRECTED BY THE ENGINEER.

NOTES:

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.

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.
1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.

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.

**NOTES:**

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<th>80 FT. TO 100 FT.</th>
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<tbody>
<tr>
<td>FOUNDATION</td>
<td>TYPE &quot;H&quot;</td>
<td>TYPE &quot;L&quot;</td>
<td>TYPE &quot;M&quot;</td>
</tr>
<tr>
<td>POLE</td>
<td>XX-30'</td>
<td>XX-A-30'</td>
<td>XX-B-30'</td>
</tr>
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<td>LUM. ARM</td>
<td>15'</td>
<td>15'</td>
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<td>400w/120v</td>
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</tr>
</tbody>
</table>

* USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.
** USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.
*** USE ONLY WHEN DIRECTED BY THE ENGINEER.
NOTES:
1. ALL ITS CONDUITS SHALL HAVE A 6-PAIR, REA-PE30 #22 AWG TWISTED WIRE PAIR CABLE INSTALLED.
2. ANY EXISTING ITS CONDUITS FROM THE OPPOSING SIDE OF THE STREET SHALL BE CONNECTED TO PROPOSED CONDUITS USING THE SAME SIZE CONDUIT. IF UNDERGROUNDS DO NOT EXIST, THEN PROPOSED CONDUITS SHALL BE EXTENDED 5' PAST THE EXISTING OR PROPOSED EDGE OF PAVEMENT TO A #3-1/2 PULL BOX MARKED "FIBER OPTIC".
3. FIBER OPTIC CONDUIT SHALL BE INSTALLED WITH P30 PULL BOXES PLACED AT A MAXIMUM SPACING OF 1000', BUT SHALL NOT BE INSTALLED WITHIN 5' OF THE POINT OF CURVATURE (PC) OF THE R/W RADIUS, IN SIDEWALK RAMP OR DRIVEWAYS. THE ITS CONDUITS SHALL BE CONNECTED TO THE EXISTING ITS CONDUITS OR, IF NOT EXISTING, AN ADDITIONAL P30 PULL BOX SHALL BE INSTALLED AT THE PROPOSED DEVELOPMENT'S PROPERTY LINE.
4. ALL CONDUT BENDS SHALL BE PVC COATED RIGID W/ A MINIMUM RADIUS OF 36 INCHES.
5. ALL ITS PULL BOXES SHALL HAVE A POLYMER COMPOSITE BODY W/ RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC".
6. UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND "FIBER OPTIC".
7. IF TRAFFIC SIGNAL CABINET EXISTS OR IS BEING INSTALLED ON CORNER, INSTALL TYPE 200 VAULT PER 404.133 AND 404.133 WITH ITS CONDUIT INTO TRAFFIC SIGNAL CABINET. IF TRAFFIC SIGNAL CABINET DOES NOT EXIST OR IS NOT BEING INSTALLED IN CORNER, INSTALL P30 PULL BOX.
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 BUSING, SPACE FOR A MINIMUM OF TEN FULL SIZE (**) 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 ENCLOSED, FOR LIGHTING CONTACTORS AS NEEDED.

DISTRIBUTION AND EQUIPMENT SECTION COVER WITH PADLOCK TAB.

BASE AND ENCLOSURE WIDTH (16" TYP.)

ENCLOSURE DEPTH (17" TYP.)

TYPICAL MOUNTING BASE DETAIL
(DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER)

SEPARATE PEDESTAL ENCLOSURE MOUNTING BASE.

SPECIFICATION REFERENCE

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<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
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<td>506 STEEL STRUCTURES</td>
<td></td>
</tr>
<tr>
<td>623 TRAFFIC SIGNALS &amp; STREETLIGHTING</td>
<td></td>
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</tbody>
</table>

SINGLE METER SERVICE PEDESTAL

DATE 12-12-96  DWG. NO. 404.1412  SHEET 1 OF 1
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.
OPEN TRENCH

LIP OF GUTTER

PULL BOX (SIZE SPECIFIED ON PLANS)

END OF CONDUIT SHALL BE FITTED WITH BUSHINGS

CONNECTOR

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

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.

24"

6"

FILL WITH SAND AND COMPACT AS REQUIRED BY FIELD ENGINEER

NOTE! DO NOT MAKE COMPOUND BENDS IN CONDUIT

SPECIFICATION REFERENCE

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

RIGID IRON CONDUIT TO PVC CONDUIT CONNECTOR

B.C. RADIUS VARIES

6" MAX.

TRENCH

CURB & GUTTER

24"

TRENCH

RIGID IRON CONDUIT TO PVC CONDUIT CONNECTOR

LIP OF GUTTER FOR A/C PAVEMENT

BACK OF CURB FOR SIDEWALK

SIDEWALK OR A/C PAVEMENT

BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)

SAND BACKFILL

CONDUIT SAND BEDDING

6" MIN.

2" MIN.

6" MAX.

NEW CONSTRUCTION

A/C PATCH SEE NOTES 1 & 2

SEAL COAT

EXISTING CURB AND GUTTER

RE-COMPACT EXISTING BASE MATERIAL

BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)

SAND BACKFILL

CONDUIT SAND BEDDING

6" MIN.

2" MIN.

6" MAX.

CONDUIT RETROFIT (EXIST. PAVEMENT)

NOTES (RETROFIT):

1. DEPTH TO MATCH EXISTING AC 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 ENCASMENT 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.
CCTV CAMERA
COHU 3585 - 4101
(OR APPROVED EQUAL)

1/2" STAINLESS STEEL BOLTS WITH
SINGLE STAINLESS STEEL WASHER
TOP AND BOTTOM WITH DOUBLE
STAINLESS STEEL NUTS

10' CAMERA EXTENSION POLE (SEE DWG. NO.
404.1500, SHEET 3 OF 4)

POLE CAP / CAMERA BASE

1/2" S.S. ALL THREAD x 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).

CABLE AND CONNECTOR:
PART OF CAMERA ACCESSORY

WEATHER PROOF MS STYLE CONNECTOR

CONNECTS TO BACK OF LOCAL
CCTV CAMERA CONTROL UNIT
COHU 3585 SERIES I-CONTROL
(OR APPROVED EQUAL IN TRAFFIC
CONTROLLER CABINET)
(MALE)
(SEE DWG. NO. 404.1500, SHEET 2 OF 4)

CONNECTS TO CA29SH CABLE (MALE)

CABLE (COHU MODEL CA29SH
OR APPROVED EQUAL)
SEE CABLE WIRING DIAGRAM
(DWG. NO. 404.1500, SHEET 2 OF 4)

CONNECTS TO CAMERA
ACCESSORY (FEMALE)

TRAFFIC SIGNAL POLE

SPECIFICATION REFERENCE

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<th>VIDEO ENCODER</th>
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<tr>
<td>686</td>
<td>VIDEO DECODER</td>
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<tr>
<td>687</td>
<td>CCTV FIELD EQUIPMENT</td>
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UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CLOSED CIRCUIT TELEVISION (CCTV)
CAMERA

DATE 04-08-10  DWG. NO. 404.1500  SHEET 1 OF 4
CAMERA EXTENSION POLE
(REQUIRED FOR POLE CAP MOUNTING)

0.38" THICK TOP PLATE

(2) - 0.50" (SS) ALL THREAD ROD
(4) - 0.50" (SS) FLAT WASHERS
(4) - 0.50" (SS) NUTS WILL BE PROVIDED.

0.25" DIA. HOLE
(4) REQD 80" O.C.
(IN CAP ONLY)

(3) - 0.50" (SS) SET SCREWS TO BE USED
TO PLUMB POLE BEFORE ALL THREAD
RODS ARE INSTALLED.

TOP PLATE DETAIL 1

4.75" DIA. BOLT CIRCLE

0.25"

0.25" 0.25"

3.00" 2.00" 4.20" 6.00"

TOP PLATE

* CONTRACTOR TO FIELD MEASURE TOP OF
EXISTING OR PROPOSED TRAFFIC SIGNAL POLE
SHAFT BEFORE FABRICATION OF CAP.

POLE EXTENSION CAP DETAIL 3

POLE DATA

<table>
<thead>
<tr>
<th>POLE TUBE</th>
<th>BASE DIA. (IN)</th>
<th>LENGTH (FT)</th>
<th>GAUGE OR THICKNESS (IN)</th>
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<tbody>
<tr>
<td></td>
<td>3.00</td>
<td>11.35</td>
<td>0.216</td>
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MATERIAL DATA

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<tr>
<th>COMPONENT</th>
<th>ASTM DESIGNATION</th>
<th>MIN. YIELD (ksi)</th>
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<tbody>
<tr>
<td>POLE TUBE</td>
<td>S109</td>
<td>36</td>
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<tr>
<td>PLATES</td>
<td>A36</td>
<td>36</td>
</tr>
<tr>
<td>GALVANIZING - HARDWARE</td>
<td>A165</td>
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<tr>
<td>GALVANIZING - STRUCTURE</td>
<td>A123</td>
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</table>

Pole Base Detail 2

SPECIFICATION REFERENCE

| 685       | VIDEO ENCODER |
| 686       | VIDEO DECODER |
| 687       | CCTV FIELD EQUIPMENT |

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CAMERA EXTENSION POLE

DATE 04-08-10  DWG. NO. 404.1500  SHEET 3 OF 4
**CAMERA ADAPTER STAND**

(REQUIRED FOR POLE CAP MOUNTING)

- **CABLE AND CONNECTOR:** PART OF CAMERA ACCESSORY
- **POLE CAP**
- **CAMERA & LENS HOUSING**
- **CAMERA ADAPTER STAND**
- **TRAFFIC SIGNAL POLE**

1. **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).**

**.250 TYP**

**3.0+.1**

**WELD COMPLETELY AROUND CIRCUM**

**Ø 0.800 THRU**

**Ø 1.750 THRU**

**.375 x .750 THRU SLOT EQUAL SPACED ON 4.750 BC BOTH SIDES**

- **MAT'L (FLANGE): 1018 STEEL OR EQUIV.**
- **MAT'L (TUBE): Ø 3.5 X 1/8 WALL 1018 STEEL OR EQUIV.**
- **3. ALL POLE AND CAP MATERIALS TO BE GALVANIZED STEEL.**
- **4. REMOVE ALL BURRS AND SHARP EDGES 0.015 MAX**

**NOTE:**

CAMERA STAND TO BE USED ONLY TO AVOID CONFLICT WITH OVERHEAD POWER LINES. AGENCY APPROVAL REQUIRED.

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**UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA**

**CAMERA ADAPTOR STAND**

**DATE 04-08-10**

**DWG. NO. 404.1500**

**SHEET 4 OF 4**
NOTE:
AN ADDITIONAL 120V OUTLET TO BE INSTALLED ON SIDE RAIL, NEAR TOP, FOR ITS EQUIPMENT ON EITHER SIDE OF CABINET. LOCATION TO BE APPROVED BY AGENCY ENGINEER BEFORE INSTALLATION. MAXIMUM OF FOUR OUTLETS PER CABINET.

SPECIFICATION REFERENCE

| 681 | FIBER OPTIC SPLICE AND DISTRIBUTION EQUIPMENT |

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

COMMUNICATION DISTRIBUTION CABLE ASSEMBLY (CDCA) IN CABINET

DATE 04-08-10  DWG. NO. 404.1801  SHEET 1 OF 1