

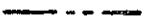



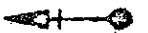
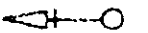

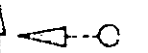

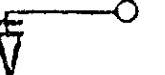


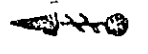
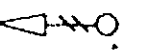

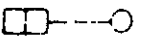
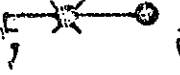
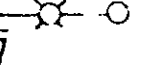

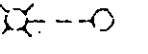




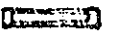
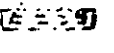
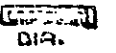
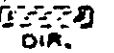






















STANDARD DRAWING INDEX
TRAFFIC AND LIGHTING

| <u>New No.</u> | <u>Title</u> | <u>Old No.</u> | <u>Prev. No.</u> | <u>Orig. No.</u> |
|----------------|---|----------------|----------------------|------------------|
| ST-01 | Standard Signal Symbols | ST-01 | | |
| ST-07 | Foundation Details - Marbelite Re- inforced concrete Light Standards | ST-04 | | |
| ST-08.2 | Lighting Pullbox - #5 | ST-08.2 | | |
| ST-08.3 | Lighting Pullbox - #6 | | | |
| ST-09 | Foundation Details - Steel Poles | | | |
| ST-10 | Foundation Details - Traffic Signal Controllers | | | |
| ST-11 | General Notes - Traffic Signal Standards | | | |
| ST-12 | Foundation Details - Steel Poles | | | |
| ST-13 | Standard Feedpoint Mounting for Underground Service Streetlighting Circuit | | | |
| ST-14 | Outdoor Pole Mount (Electrical Meter, T.B. & Breakers) typical installation | | | |
| ST-15 | Typical Standard Light Installation - A.R.A. Area | | | |
| ST-16 | Foundation Detail 35' Davit Pole - 9' Arm | | | |
| ST-17 | Pedestal Service Point - Typical Installation for Utility Pole Drops | | | |
| ST-18 | Underground Electrical Service within Public Right-of-Way | | So. Edison | Cal. |
| ST-19 | Steel Davit Standard | | | |
| ST-20 | Curb Address Number Specification | | | |
| ST-21 | Street Banner Specification | | | |

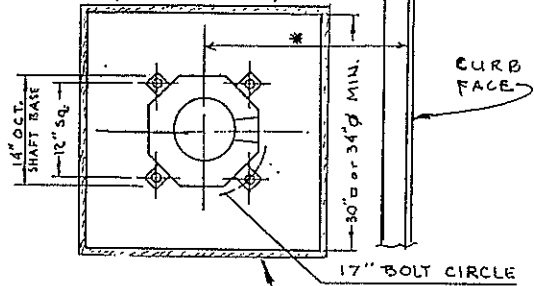
STANDARD SIGNAL SYMBOLS

PROPOSED EXISTING

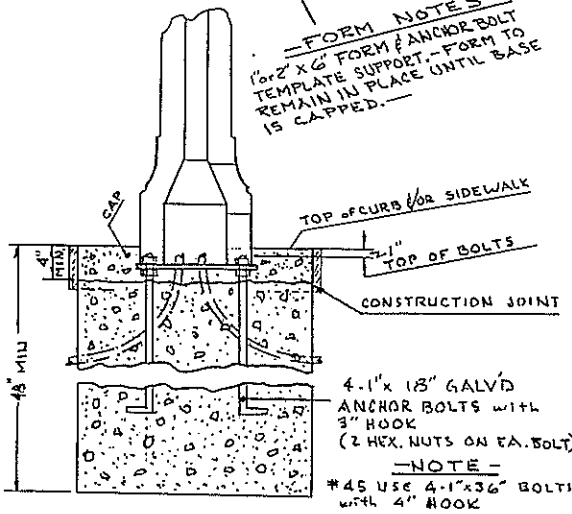
| | | |
|---|---|---|
|  |  | SIGNAL CONDUIT |
|  |  | OVERHEAD CABLE |
|  |  | TRAFFIC SIGNAL (EACH ARROW ONE FACE) |
|  |  | SIGNAL WITH BACKPLATE |
|  |  | SIGNAL WITH GREEN ARROW |
|  |  | MAST ARM SIGNAL |
|  |  | SIGNAL WITH LIGHTS LOUVERED (LETTER INDICATES LIGHT LOUVERED) |
|  |  | PEDESTRIAN SIGNAL, RED - GREEN |
|  |  | PEDESTRIAN SIGNAL, NEON - (" <u>WALK</u> " - " <u>DON'T WALK</u> ") |
|  |  | MAST ARM SIGNAL AND ELECTROLIER |
|  |  | ELECTROLIER, PENDANT TYPE |
|  |  | FIRE HYDRANT |
|  |  | SIGNAL CONTROLLER |
|  |  | NON-DIRECTIONAL PRESSURE DETECTOR |
|  |  | DIRECTIONAL PRESSURE DETECTOR |
|  |  | PULL BOX |
|  |  | SIGNAL CONTROLLER WITH RADIO CONTROL |
|  |  | ELECTROLIER, UPRIGHT TYPE |
|  |  | POWER POLE |
|  |  | MAN HOLE |
|  |  | CATCH BASIN |
|  |  | PED. PUSH BUTTON |

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| REV. NO. | DATE | BY | APP. | CORRECTED SYMBOLS | ITEM |
| CITY OF ALHAMBRA | | | | | |
| ENGINEERING & STREET DEPT. | | | | | |
| STANDARD SIGNAL SYMBOLS | | | | | |
| R.J. COLPITTS. | | | R.G. BEZZANT. | | |
| TRAFFIC ENGR. | | | CITY ENGR. | | |
| DRAWN BY: | APPROVED BY: | DATE | MASTER FILE NO. | | |
| | | 12-4-58 | ST-01 | | |

RESIDENTIAL TYPE
(WITH OUT T.S.)

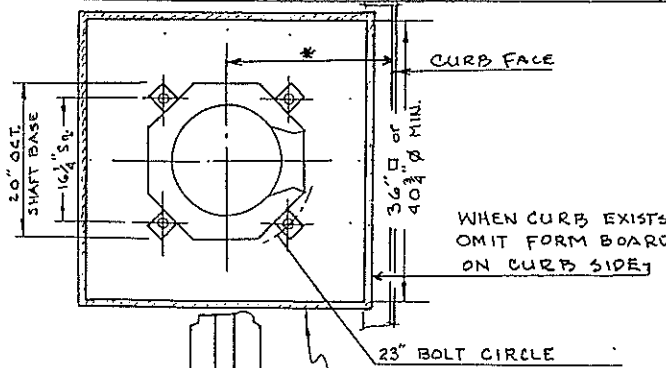


FORM NOTES
1" or 2" x 6" FORM & ANCHOR BOLT TEMPLATE SUPPORT. - FORM TO REMAIN IN PLACE UNTIL BASE IS CAPPED.

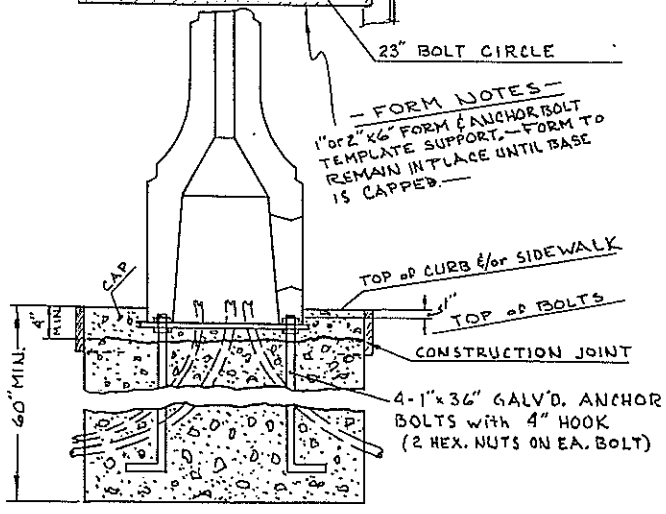


#4 FDTN. FOR #4-D Series
(*41D to #45D incl.)
(317K)

COMMERCIAL TYPE
(WITH OR WITHOUT T.S. ON BRACKETS & ON MAST ARMS)

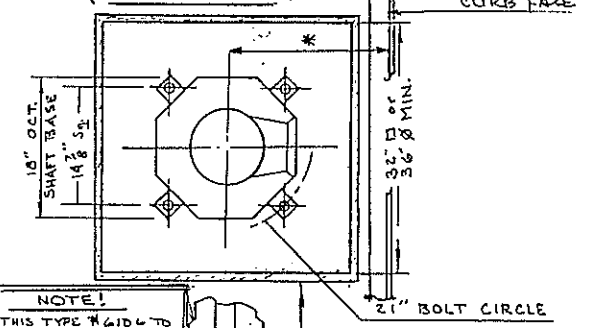


FORM NOTES
1" or 2" x 6" FORM & ANCHOR BOLT TEMPLATE SUPPORT. - FORM TO REMAIN IN PLACE UNTIL BASE IS CAPPED.

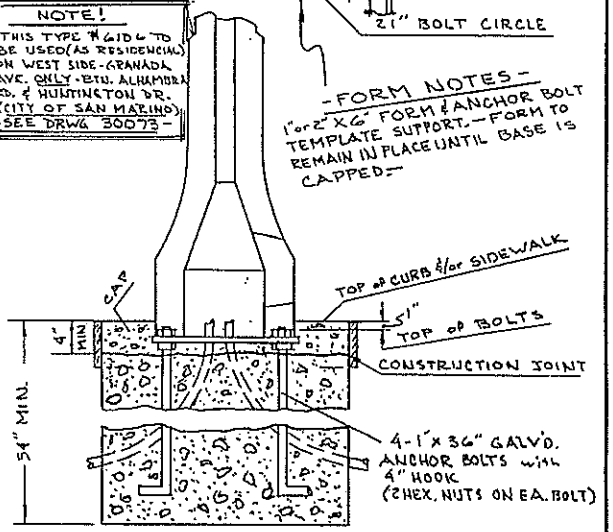


#5 FDTN. FOR #5-D Series
(*56D6, 58D6, etc.)

COMMERCIAL TYPE
(WITHOUT T.S.)



FORM NOTES
1" or 2" x 6" FORM & ANCHOR BOLT TEMPLATE SUPPORT. - FORM TO REMAIN IN PLACE UNTIL BASE IS CAPPED.



#6 FDTN. FOR #6-D Series
(*66D6 etc.)

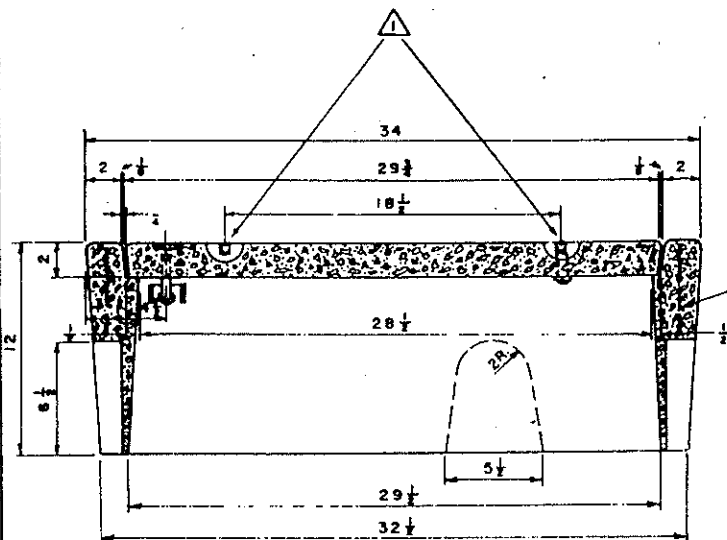
NOTE!
THIS TYPE #6 DTD TO BE USED (AS RESIDENTIAL) ON WEST SIDE - GRANADA AVE. ONLY - BTU, ALHAMBRA RD. & HULLINGTON DR. (CITY OF SAN MARINO) - SEE DRWG 30073 -

SPECIFICATIONS
PORTLAND CEMENT CONCRETE

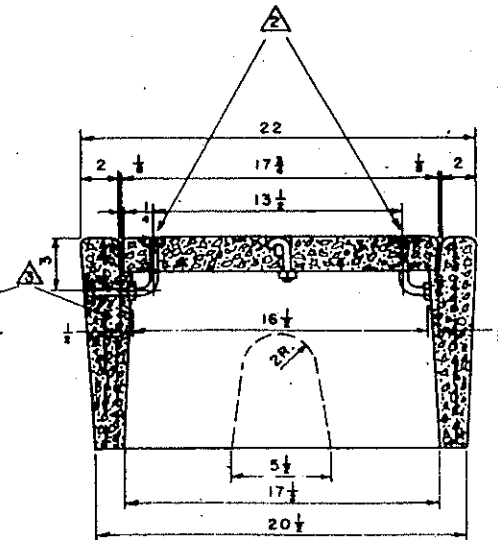
1: 2½: 3½ MIX
5 SACKS (MIN.) PER CU. YD.
1½" MAX. SLUMP
2500 #/1" MIN. C.S. @ 28 DA.

* NOTE: UNLESS OTHERWISE SHOWN ON PLANS - STDS. TO BE 2.5 FT. TO STR. FROM CURB FACE,

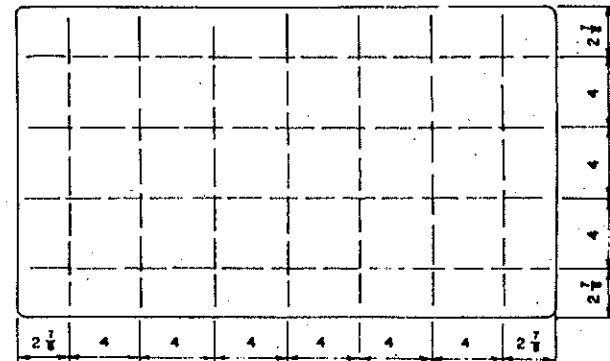
| | | | |
|-----------------------------------|----------------------------|------------|--------------|
| RECOMMENDED FOR APPROVAL | TRAFFIC ENGR. (DATE) | REDRAWN | |
| | <i>[Signature]</i> 11-3-65 | Rev. No. | Item |
| CITY OF ALHAMBRA | | M. Hawk | |
| ENGINEERING AND STREET DEPARTMENT | | CITY ENGR. | |
| — FOUNDATION DETAILS — | | BY DATE | REFERENCES: |
| MARBELITE | | F. B. NO. | DRWG. NO. |
| REINFORCED CONCRETE LIGHT STDS. | | DRWN | DRWG. NO. |
| | | CHECKED | DATE |
| | | | 12/29/65 |
| | | | SCALE: NONE |
| | | | ST-07 |
| | | | SHT. OF ENTS |



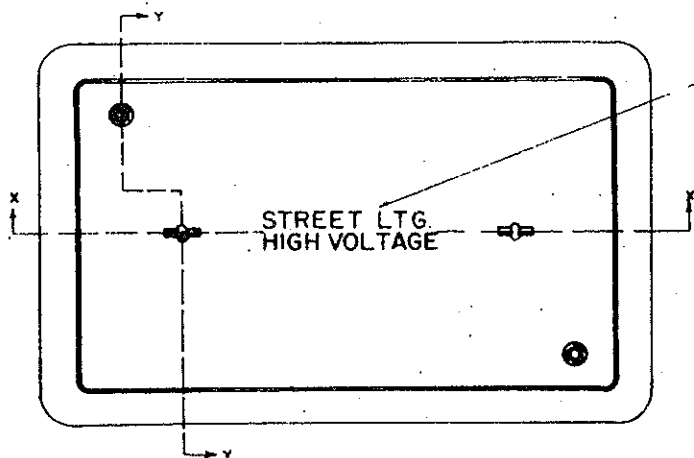
SECTION X-X



SECTION Y-Y



REINFORCING PATTERN: DOTTED LINES INDICATE
 PLACEMENT OF 5/16" HIGH CARBON STEEL
 DEFORMED REINFORCING ROD PER A.S.T.M. SPECS



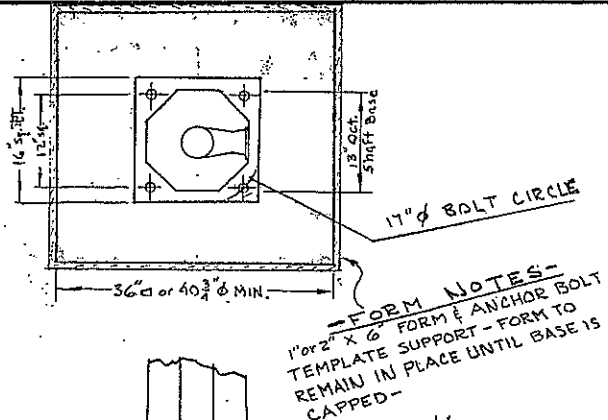
1" LETTERS CAST IN
 STANDARD MARKINGS:
 STREET LTG.
 HIGH VOLTAGE.
 TRAFFIC SIGNAL.
 DEPT. BLDG & SAFETY.
 TELEPHONE
 POWER.
 FIRE ALARM.
 ELECTRIC

- △ 3/8" BRASS "J" BOLTS, 1" DIAM BEND-2 PLACES
- △ 3/8" BRASS "L" BOLTS WITH BRASS HEX NUTS-2 PLACES.
COVER AND BOX RECESSED TO THICKNESS OF NUTS BOLTS
NOT TO EXTEND ABOVE TOP SURFACE OF COVER.
- △ 16 GAGE, 3/4 X 3/4 GALVANIZED HARDWARE CLOTH REINFORCING
CAGE CUT OUT TO ALLOW FOR CONDUIT KNOCKOUTS WITH SPACING
TAPS TURNED IN AND OUT TO POSITION CAGE WHILE POURING

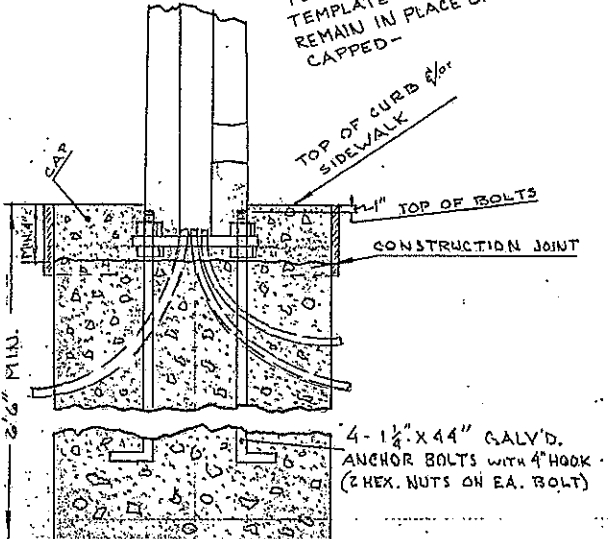
6 PULL BOX

CITY OF ALHAMBRA
 STANDARD PULL BOX
 DRWG. NO. 57-08.3

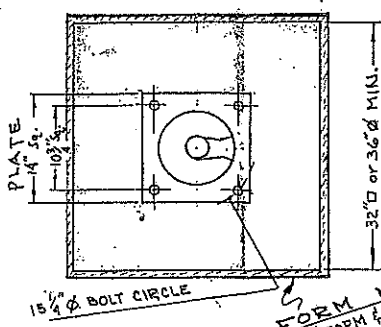
R. J. COLPITTS-TRAFFIC ENGR.



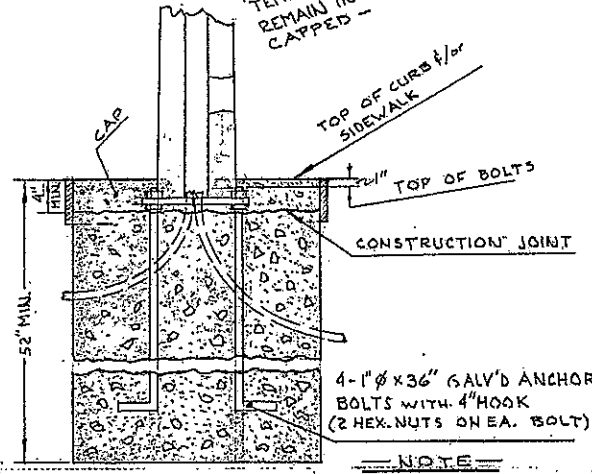
FORM NOTES -
 1" or 2" x 6" FORM & ANCHOR BOLT
 TEMPLATE SUPPORT - FORM TO
 REMAIN IN PLACE UNTIL BASE IS
 CAPPED -



FOR SERIES # 5792-A (STRAIN POLES) - (THIS SERIES USED
 WITH LONG T.S. MAST ARMS & 2' LUMINAIRE ARM.)

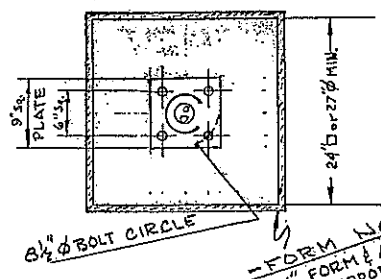


FORM NOTES -
 1" or 2" x 6" FORM & ANCHOR BOLT
 TEMPLATE SUPPORT - FORM TO
 REMAIN IN PLACE UNTIL BASE IS
 CAPPED -

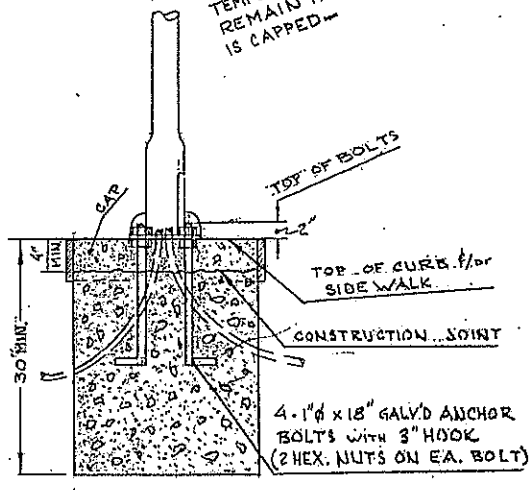


NOTE -
 FOR SHAFTS OVER 2 1/2" USE
 1 1/2" ϕ x 40" ANCHOR BOLTS

#9 FDTN. For # E20J & E25J SERIES



FORM NOTES -
 1" or 2" x 6" FORM & ANCHOR BOLT
 TEMPLATE SUPPORT - FORM TO
 REMAIN IN PLACE UNTIL BASE
 IS CAPPED -



For STD. TYPE I-C STEEL POSTS

NOTE: UNLESS OTHERWISE SHOWN ON PLANS - STDS. TO BE 2 FT. TO CTR. FROM CURB FACE.

SPECIFICATIONS
 PORTLAND CEMENT CONCRETE
 1: 2 1/2 : 3 1/4 MIX
 5 SACKS (MIN.) PER CU. YD.
 1 1/2" MAX. SLUMP
 2500 $\frac{1}{4}$ " MIN. C.S. @ 28' D.A.

RECOMMENDED
 FOR
 APPROVAL

TRAFFIC ENGR. (DATE)
[Signature] 12-25-65
 QLR OSCG, ASSY. CITY ENGR. (R.C.E. No. 11462)

| | | |
|----------|-------|----------|
| 7284 | 2 FEB | REDRAWN |
| Rev. No. | Date | By/Appr. |
| | | ITEM |

| | | | | |
|---|------|---------|-------------|-------------|
| CITY OF ALHAMBRA | | | | 12/29/65 |
| ENGINEERING AND STREET DEPARTMENT | | | | DATE |
| M. HAWK TRAFFIC ENGR. (1180) CITY ENGR. | | | | SCALE: NONE |
| FOUNDATION DETAIL | | | | DRWG. No. |
| DESIGN | BY | DATE | REFERENCES: | |
| DRAWN | EGR. | FYK | F.B. NO. | |
| CHECKED | ESC | 2-25-65 | DRWG. NO. | ST-09 |
| | | | | BY: or DATE |

(THE CONTRACTOR SHALL CONFORM TO ALL GENERAL NOTES UNLESS NOT APPLICABLE)

A. CONDUIT

1. Service and detector conduit shall be 1 inch, interconnect 1½ inch, traffic signal conduit shall be 2 inch, and lighting conduit shall be 1½ inch. (California Standard Specification, Section 86 unless otherwise specified.)
2. Conduit shall be installed 18" minimum below curb grade in sidewalk areas and 30" minimum below grade or finished surface in all other areas, except that conduit installed within curbed dividing strips constructed on existing pavement may be laid on and secured to the pavement.
3. Conduit runs parallel to curbs may be placed adjacent to back of curb, except where it conflicts with existing facilities.
4. Conduit terminating in standards and pedestals shall extend approximately 2" above finished top of foundation and shall slope toward the handhole.

B. CONDUCTORS

1. Signal neutral shall be a separate #10 A.W.G., or larger, conductor.
2. A band or bands shall be attached near the end of each conductor showing:
 - a. Circuit and Phase. (May be omitted if clearly shown by color coding.)
 - b. Destination.
3. Neutral conductors may be spliced in pull boxes.
4. Underground conductors to signals shall have no splices.
5. Connection to each terminal of a pedestrian push button shall be by a single conductor. Splices shall be made in nearest pull box.
6. Three feet of slack shall be provided in each conductor in each pull box and 1 foot in each signal pole.
7. Where existing conductors are to be re-used, the color coding must conform to California Standard Specifications, Section 86.
8. Conductors between ballasts or transformers and luminaires shall be #10 A.W.G., 600 Volt.

C. PULL BOXES

1. Pull boxes shall be No. 5. Not more than five (5) 2 inch conduits shall be installed in one pull box.
2. Pull boxes shown in the vicinity of curbs shall be placed adjacent to back of curb, except when it conflicts with existing facilities.

D. POLES

1. All standard locations shall be laid out by the City of Alhambra to insure proper location.
2. Standard foundations shall be installed, with rigid forms where necessary, true to existing or future grade and poured to within four inches of grade, upper four inches to be grouted in after pole has been set and leveled.
3. Where terminal compartments and/or pole plates are bolted to steel posts, they shall be bolted with galvanized thru-bolts.

E. SIGNALS

1. All traffic signal heads shall be backplated.
2. Vehicular and pedestrian signal mountings shall be oriented to provide maximum horizontal clearance to adjacent roadway.

RECOMMENDED FOR APPROVAL

| | | | | |
|-------------------------|--|----------------------|----------|---------|
| <i>Lynn Stewart</i> | | TRAFFIC ENGR. (DATE) | 10/17/68 | 2 |
| CITY ENGR. (R.C.E. No.) | | Rev. No. | Date | By/App. |
| | | 2/26/70 | DK.H. | |

CITY OF ALHAMBRA
ENGINEERING AND STREET DEPARTMENT

W. D. Hawk
DIR. OF PUB. WKS. CIVIL ENGR. NO. 11190

DATE: 10/17/68
SCALE: —

GENERAL NOTES
FOR TRAFFIC SIGNALS & STREET LIGHTING

| | BY | DATE | REFERENCES: |
|---------|----|------|-------------|
| DESIGN | | | F. B. NO. |
| DRAWN | | | DRWG. NO. |
| CHECKED | | | |

DRWG. NO.
ST-11
SHT. 1 of 3 SHTS.

E. SIGNALS (CONTINUED)

3. Where existing signal heads are to be re-used, contractor shall furnish framework necessary to remount indications as shown on the plans.
4. All traffic signal heads, 8-inch and 12-inch shall have square doors.
5. All mast arm mounted signals shall be 12-inch heads with **MAS** mounting.

F. PEDESTRIAN SIGNALS & PUSH BUTTONS

1. All pedestrian signals shall be of the new grid-neon "Walk-Don't Walk" type.
2. Two-color pedestrian signal heads shall be wired to indicate red during corresponding vehicle yellow and red interval, and green during vehicle green interval.
3. All "Don't Walk" - "Walk" indications shall flash "Don't Walk" during the pedestrian protection period.
4. Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.

G. VEHICLE DETECTORS

1. Separate conductors, other than neutral, shall be run from each detector element to controller.
2. Detector position dimensions refer to contact unit, sensor unit or edges of wire loop, whichever apply.
3. All detector equipment shall be installed in accordance with manufacturer's recommendations.

H. INTERCONNECT

Directly interconnected traffic signal systems shall be electrically isolated from each other through the use of relays.

I. MATERIALS AND EQUIPMENT

All materials and equipment, unless otherwise specifically designated on the plans and in the specifications to be relocated and/or re-used, shall be new, and shall be, including all work, subject to inspection and approval of the City Engineer or his duly-authorized representative.

J. SALVAGED MATERIAL




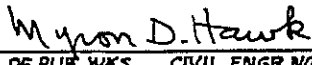
All salvaged material shall be tagged, inventoried, and delivered to the Alhambra City Yards Signal Yard, 900 South New Avenue, in good condition and shall be considered within the lump sum for doing the work.

K. SERVICE CONNECTIONS

The City of Alhambra will make arrangements for power service to the location shown on the plans. The connection work by the power company will be arranged for by the City of Alhambra. The contractor shall furnish and install all necessary conduit and wiring to the points of hookup and shall have personnel at the site capable of assisting in the hookup and checking the circuit. The contractor shall notify the City Engineer at the time of the start of construction as to when he estimates service will be required and then approximately forty-eight (48) hours prior to actual need.

L. GUARANTEE

The contractor shall guarantee all portions of the various installations against defective materials and workmanship for a period of one (1) year from the date of completion of the contract. Damage due to acts of God and/or sabotage and/or

| | | | | | |
|--|--|---|--|---------|---|
| RECOMMENDED FOR APPROVAL |  TRAFFIC ENGR. (DATE) 10/17/68 |  | | | |
| | ASSN'T CITY ENGR. (R.C.E. No.) |  | 2/26/70 | UVH. | "J." city yard address "E.S." M-2 to MAS |
| | | Rev.No. | Date | By/App. | ITEM |
| CITY OF ALHAMBRA | | |  | | DATE: 10/17/68 |
| ENGINEERING AND STREET DEPARTMENT | | | DIR. OF PUB. WKS. CIVIL ENGR NO. 11190 | | SCALE: |
| GENERAL NOTES FOR TRAFFIC SIGNALS & STREET LIGHTING | | | DESIGN | DATE | REFERENCES: |
| | | | DRAWN | | F. B. NO. |
| | | | CHECKED | | DRWG. NO. |
| | | | | | |
| | | | | | SHT. 2 of 3 SHTS. |

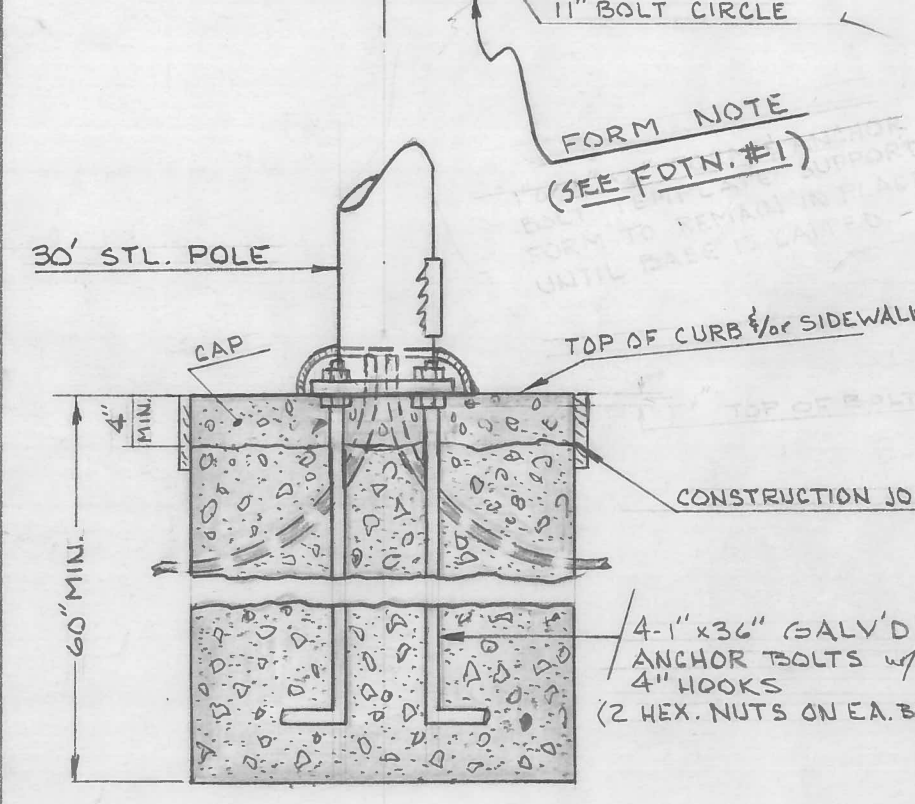
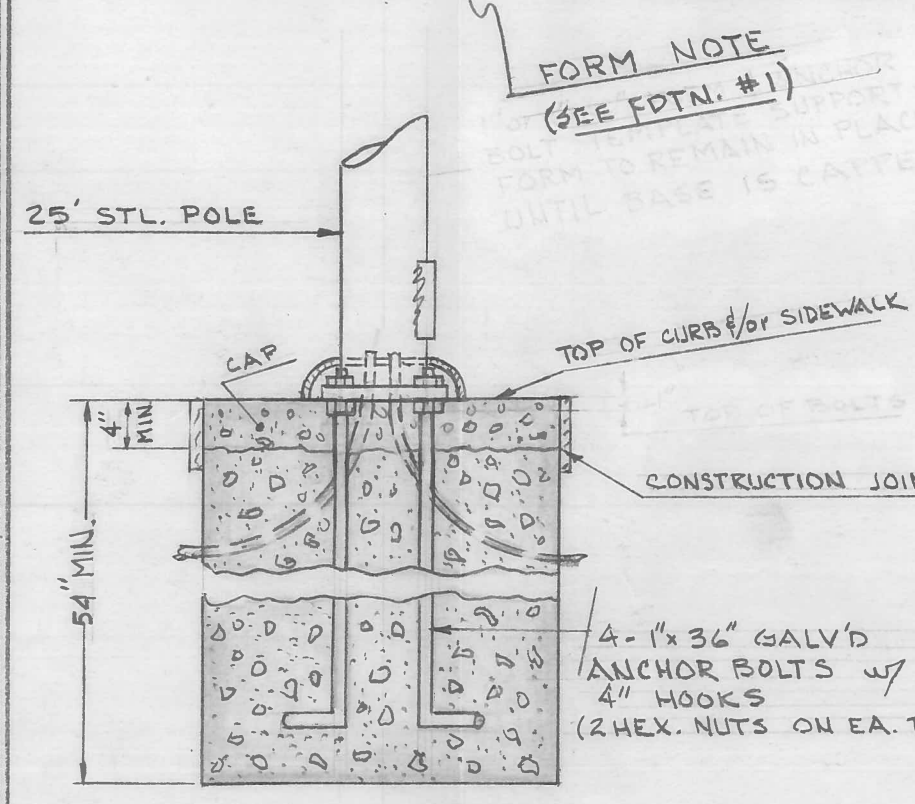
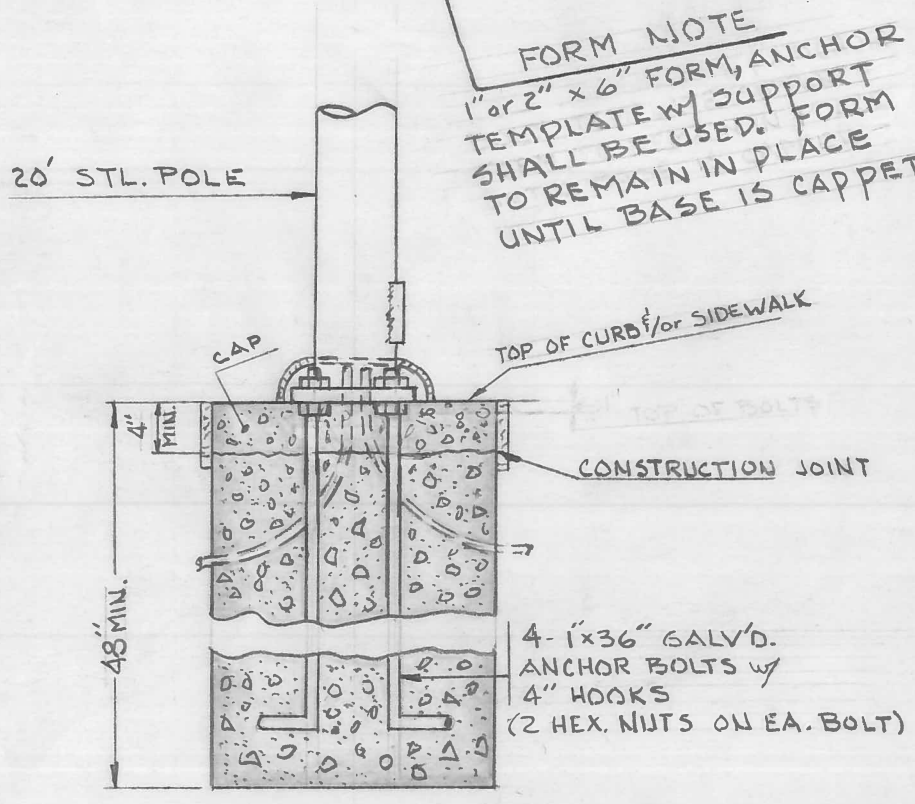
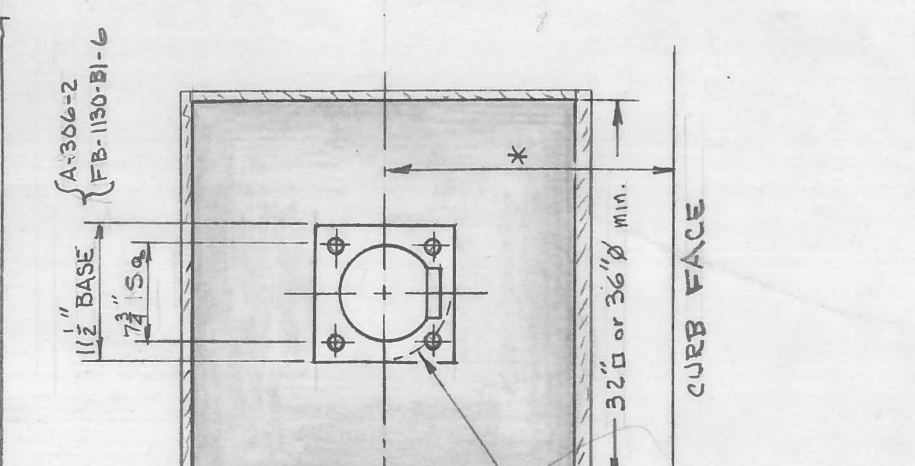
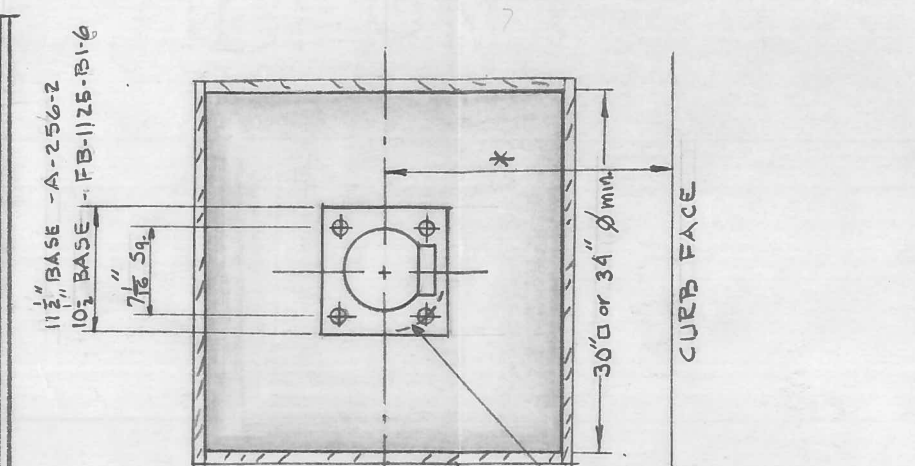
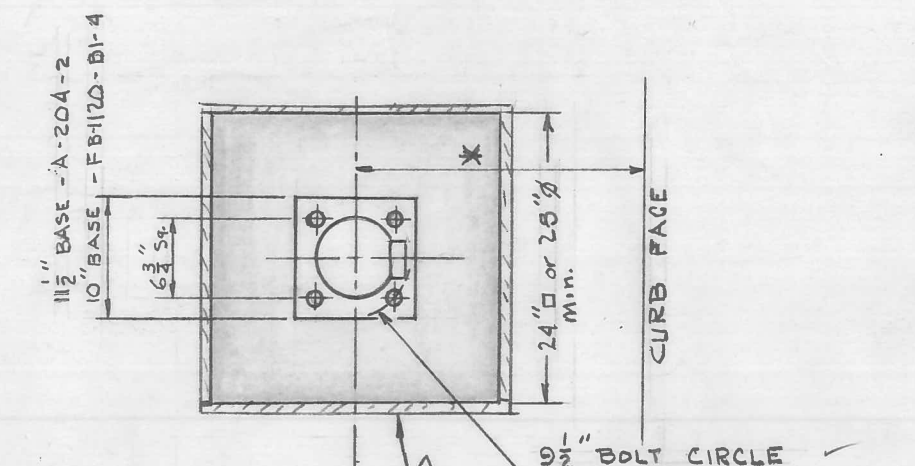
L. GUARANTEE (CONTINUED)

vandalism are specifically excepted from the guarantee.

When defective materials and/or workmanship are discovered requiring repairs and/or replacement to be made under this guarantee, all such work shall be done by the contractor at his own expense within five (5) days after written notice is given him by the City. Should the contractor fail to repair and/or replace such defective material or correct defective workmanship within five (5) days thereafter, the City of Alhambra may make the necessary repair and/or replacement and charge the contractor with the actual cost of labor and materials. In emergencies demanding immediate attention, the City of Alhambra shall have the right to repair and charge the cost of repairing the defect to the contractor with the actual cost of all labor and material required.

The contractor shall arrange to have his Faithful Performance Bond run for a period of one (1) year after date of completion of the contract to cover his guarantee as set forth above.

| | | | | | |
|--|--|---|------|---------|---------------------------|
| RECOMMENDED FOR APPROVAL | <i>Lynn Stewart</i> 10/17/68 TRAFFIC ENGR. (DATE) | 2 | | | |
| | ASS'NT CITY ENGR. (R.C.E. No.) | 1 | | | |
| | | Rev. No. | Date | By/App. | ITEM |
| CITY OF ALHAMBRA | | <i>Myron D. Hawk</i> | | | DATE: 10/17/68 |
| ENGINEERING AND STREET DEPARTMENT | | DIR. OF PUB. WKS. CIVIL ENGR. NO. 11190 | | | SCALE: — |
| GENERAL NOTES FOR TRAFFIC SIGNALS & STREET LIGHTING | | DESIGN | BY | DATE | REFERENCES: |
| | | DRAWN | | | F. B. NO. |
| | | CHECKED | | | DRWG. NO. |
| | | | | | DRWG. No. ST-11 |
| | | | | | SHT. 3 of 3 SHTS. |



1 FDTN. FOR {A-204-2
FB-1120-BI-4
(20' Tapered Steel Poles)

2 FDTN. FOR {A-256-2
FB-1125-BI-6
(25' Tapered Steel Poles)

3 FDTN. FOR {A-306-2
FB-1130-BI-6
(30' Tapered Steel Poles)

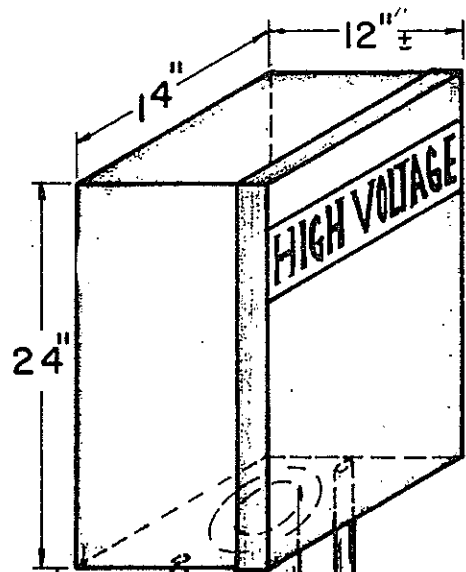
* NOTE: UNLESS OTHERWISE SHOWN ON PLANS - STDS. TO BE 2' TO CTR. FROM CURB FACE

SPECIFICATIONS

PORTLAND CEMENT CONCRETE

1: 2 1/2 : 3 1/4 MIX
 5 SACKS (MIN.) PER CU. YD.
 1 1/2" MAX. SLUMP
 2500 #/cu. ft. MIN. C.S. @ 28 DA.

| | | | | | |
|-------------------------------------|---|---|-------------|-------------|------------------------------|
| RECOMMENDED FOR APPROVAL | A. LYNN STEWART TRAFFIC ENGR. (DATE) 5/25/66 | Rev. No. | Date | By/ App. | ITEM |
| | O. L. ROSCOE ASS'NT CITY ENGR. (R.C.E. No. 11460) 5/25/66 | 1 | 7/21/66 | ECB/ALS | RAISED BASES TO TOP OF FDTN. |
| CITY OF ALHAMBRA | | M. Hawk | | 6-2-66 | |
| ENGINEERING AND STREET DEPARTMENT | | M.D. HAWK (R.C.E. NO. 11190) CITY ENGR. | | SCALE: NONE | |
| — FOUNDATION DETAILS — | | BY DATE REFERENCES: | | DRWG. NO. | |
| PUMCO FB-11, & WELD-RITE "A" SERIES | | DESIGN | ECB 4-20-66 | F. B. NO. | ST-12 |
| TAPERED GALVANIZED STEEL POLES | | DRAWN | RDB 4-28-66 | DRWG. NO. | |
| | | CHECKED | ECB 5-10-66 | | SHT. 1 of 1 SHTS. |



Mount Visa-Switch
In Type "G"
Controller Cabinet

Type "C" Post

46" ±

1 1/4" x 3/16" Clamp
w/ 4- 1/2" Bolts

Feed Wiring From
Vault — By S.C.E. Co.

To Light Standards

To Light Standards

FOUNDATION PER ST-10

2" Ø Conduit From Vault

RECOMMENDED
FOR
APPROVAL

Lynn Stewart
TRAFFIC ENGR. (DATE)

| | | | |
|---------|------|---------|------|
| △ | | | |
| △ | | | |
| Rev.No. | Date | By/App. | ITEM |

CITY OF ALHAMBRA

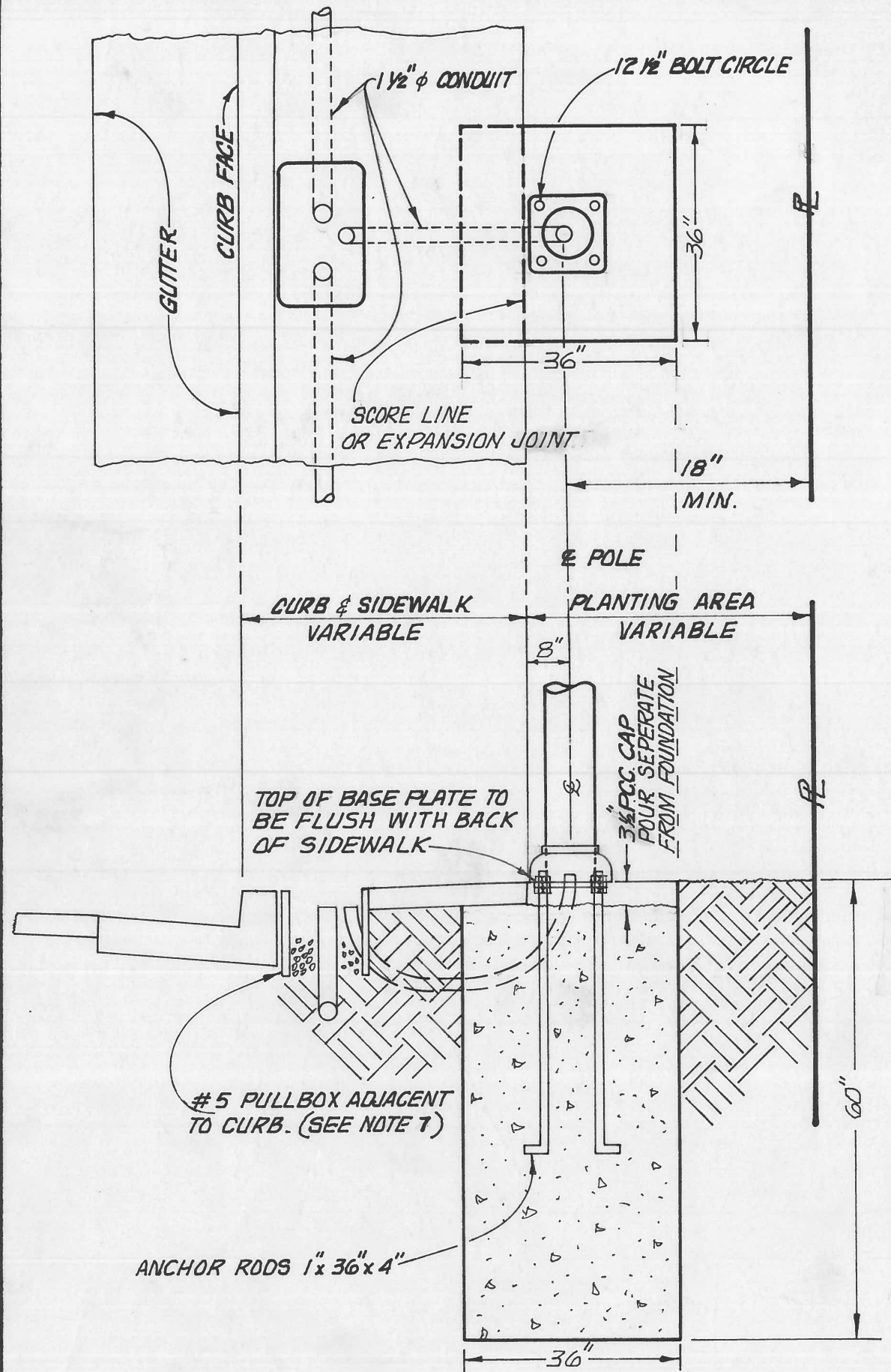
ENGINEERING AND STREET DEPARTMENT

STANDARD FEED POINT MOUNTING FOR
UNDERGROUND SERVICE
STREET LIGHTING CIRCUIT

| | | | |
|----------------|----------------------|-------------------|-----------|
| <i>M. Hawk</i> | | DATE | 7/17/67 |
| D.P.W. | CIVIL ENGINEER-11190 | SCALE: | NONE |
| DESIGN | E.C.B. 7-14-67 | REFERENCES: | DRWG. No. |
| DRAWN | R.D.B. 7-17-67 | DRWG. NO. | ST-13 |
| CHECKED | E.C.B. 7/17/67 | SHT. 1 of 1 SHTS. | |

CONSTRUCTION NOTES

- 1 - All electrical work shall conform to applicable portions of Section 86, Cal-Trans Standard Specifications, latest available edition, unless otherwise specified. Appurtenant work, concrete, etc. shall conform to Standard Specifications for Public Works Construction (Green Book), latest available edition.
- 2 - Concrete for foundation shall be Class 560-C-3250, per section 201-1.1.2, SSPWC.
- 3 - Street light standard shall be fabricated from a single tapered galvanized steel tube and shall provide a 35 foot mounting height, measured from the base plate of the pole. The pole shall be a davit type, with a 5 foot minimum radius bend, and providing an 8 foot arm measured from the center-line of the vertical shaft. Pole shall be similar to PUMCO Cat. No. LD10049H or AMERON Cat. No. J 358 with 12½" bolt circle and anchor rod cover.
- 4 - Luminaire shall be 200W, 240V, High pressure Sodium Vapor, G.E. Cat. No. C724N980, Unicorn Electrical Products Cat. No. UCB-V3-200 PH or approved equal. Each luminaire shall be equipped with a photoelectric control, conforming to Sec. 86-6.07, Type IV control. Socket setting shall provide M-S-III Distribution.
- 5 - Conductors between pullboxes shall be #8 AWG copper, unless otherwise specified. Conductors between pullboxes and luminaire shall be #10 AWG. Fused splice connectors shall be used in each pullbox adjacent to luminaire in accordance with Sec. 86-2.095. Fuse shall be 5 amp rating unless otherwise shown.
- 6 - Conduit shall be rigid metallic conforming to Sec. 86-2.05A(1) and shall be bonded and grounded per Sec. 86-2.10.
- 7 - Pullbox shall be No. 5, with cover clearly marked "STREET LIGHTING". Alternate pullbox locations shall be used when shown on plans or directed to do so by inspector.



RECOMMENDED
FOR
APPROVAL

TRAFFIC ENGR. (DATE)
[Signature] 4/25/84
CITY ENGR. CIVIL ENGR. NO. 22397 (DATE)

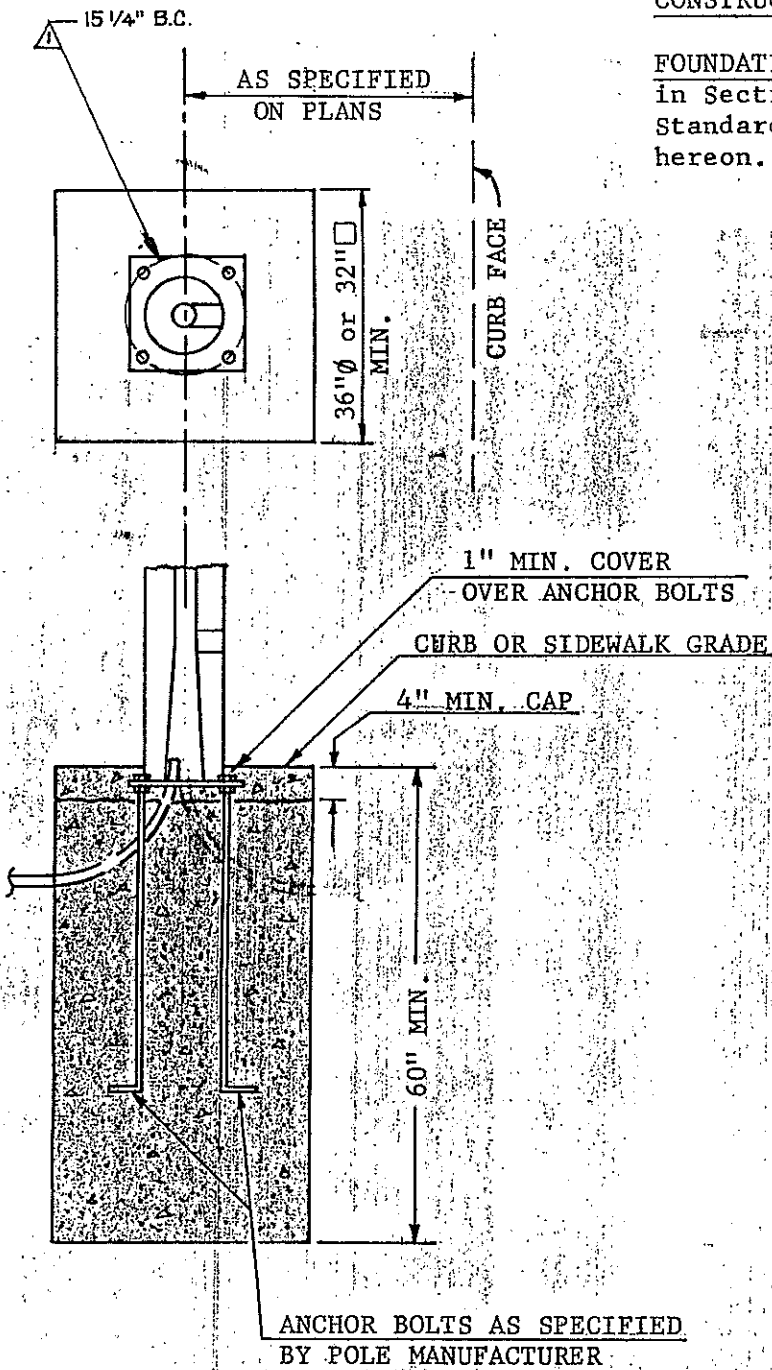
CITY OF ALHAMBRA
DEPARTMENT OF PUBLIC WORKS
**TYPICAL STREET LIGHT
INSTALLATION - A.R.A.**

| Rev. No. | Date | By/App. | ITEM |
|----------|----------|---------|--|
| 3 | 4-10-84 | J.V.H. | REVISED STD. DRAWING |
| 2 | 4-19-77 | J.V.H. | RELOCATE PULL BOX ADJACENT TO BACK OF CURB |
| 1 | 12-13-72 | E.P.W. | 60" WAS 54" |

| | |
|-------------------------|----------------------|
| DATE: 4-10-84 | |
| SCALE: N.T.S. | |
| BY: <i>[Signature]</i> | DATE: 4/10/84 |
| DESIGN: B.H.G. 9/1/71 | REFERENCES: F.B. No. |
| DRAWN: L.A.T. 4/14/84 | old ST-15 |
| CHECKED: J.V.H. 4/10/84 | |
| DRWG. No. ST-15 | SHT. 1 OF 1 SHTS |

CONSTRUCTION NOTES

FOUNDATIONS shall be installed as specified in Section 86-2.03, State of California Standard Specifications, except as shown hereon.



RECOMMENDED FOR APPROVAL

TRAFFIC ENGR. (DATE)
[Signature] 1-6-72
 CITY ENGR. CIVIL ENGR. No. 11460 (DATE)

| | | | |
|----------|--------|---------|-----------------------|
| 2 | | | |
| 1 | 2/2/88 | SAF | DIMENSION BOLT CIRCLE |
| Rev. No. | Date | By/App. | ITEM |

CITY OF ALHAMBRA

DEPARTMENT OF PUBLIC WORKS

[Signature] DATE: 1/6/72
 DR. OF PUBLIC WORKS CIVIL ENGR. No. SCALE: NONE

| | | | | |
|---------|--------|---------|-------------|------------------|
| DESIGN | OLR/86 | 12/1/71 | REFERENCES: | DRWG. No. |
| DRAWN | BHG | 1/6/72 | F.B. No. | ST-16 |
| CHECKED | OLR | 1/6/72 | | SHT. 1 OF 1 SHTS |

FOUNDATION DETAIL
 35' DAVIT POLE - 9' ARM

**PEDESTAL SERVICE POINT
TYPICAL INSTALLATION FOR
UTILITY POLE SERVICE DROPS**

DEPARTMENT OF PUBLIC WORKS
CITY OF ALHAMBRA

RECOMMENDED FOR APPROVAL

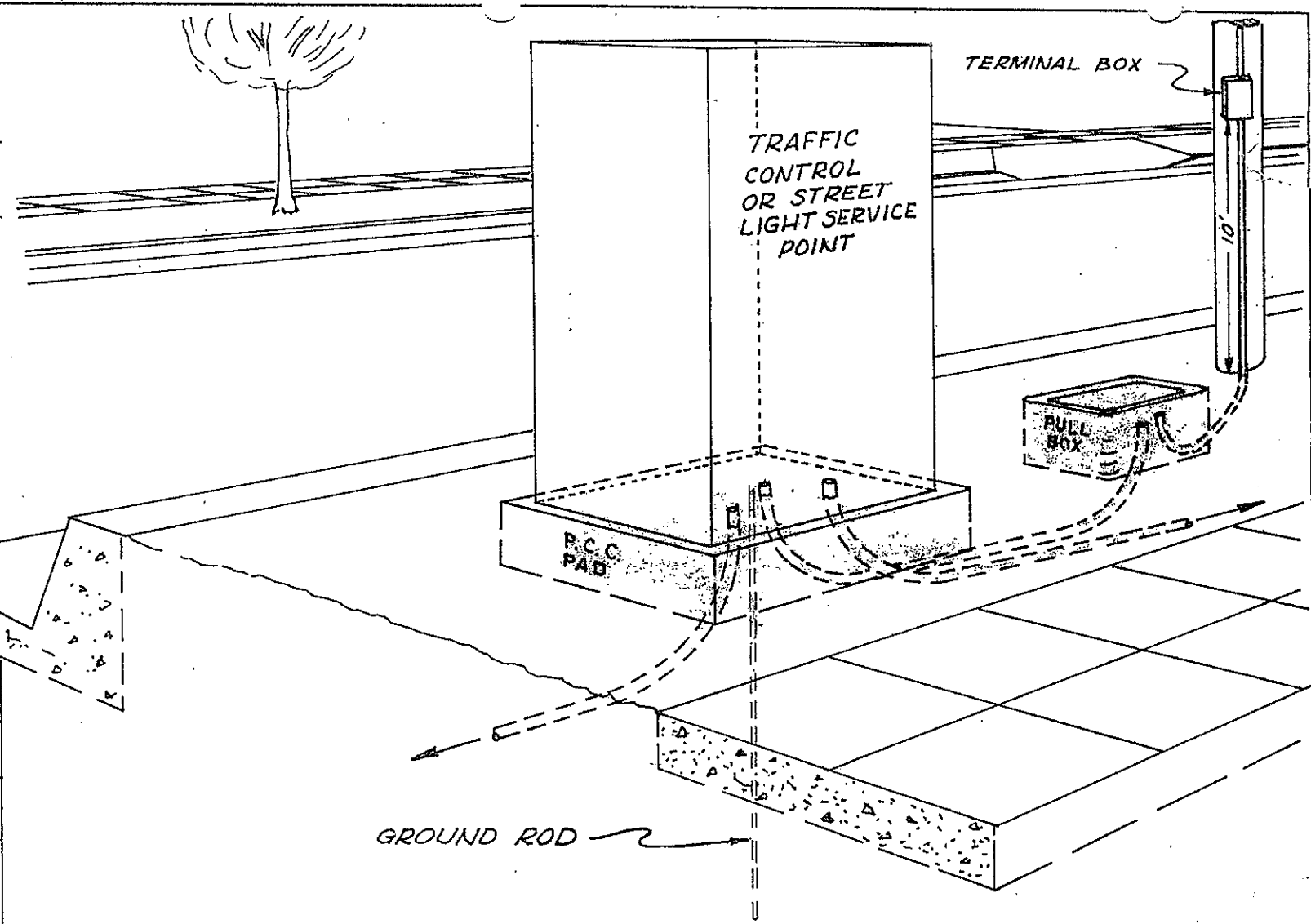
CITY ENGR. *[Signature]* CIVIL ENGR. NO. *11469* (DATE) *8-9-72*

TRAFFIC ENGR. (DATE)

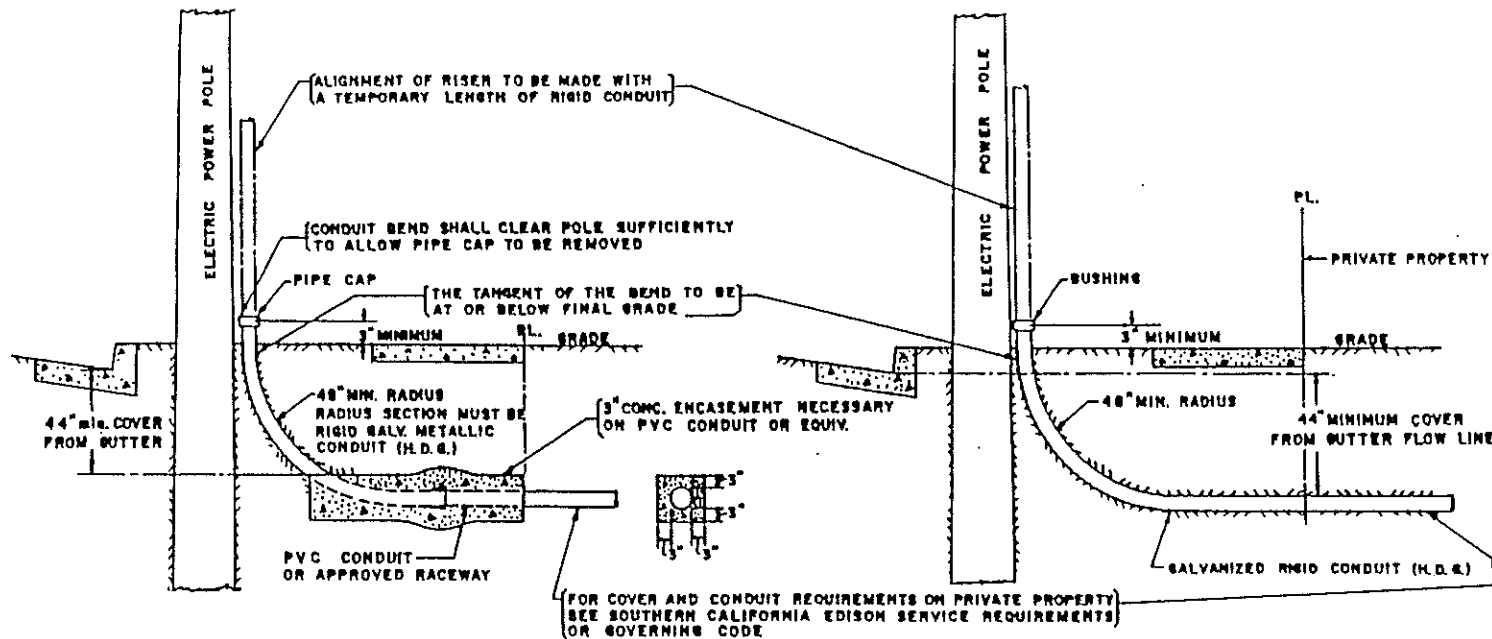
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|----------|------|----------|------|
| 2 | | | |
| 1 | | | |
| Rev. No. | Date | By/ App. | ITEM |

DIR. OF PUBLIC WORKS *[Signature]*

| | | |
|--------------------------------|--------------------|------------------------|
| BY | DATE | REFERENCES: |
| DESIGN <i>BHG</i> | | F.B. NO. |
| DRAWN <i>BHG</i> | <i>8/8/72</i> | |
| CHECKED | | |
| DATE: <i>8-10-72</i> | SCALE: <i>NONE</i> | DRWG. NO. <i>ST-17</i> |
| SHT. <i>1</i> OF <i>1</i> SHTS | | |

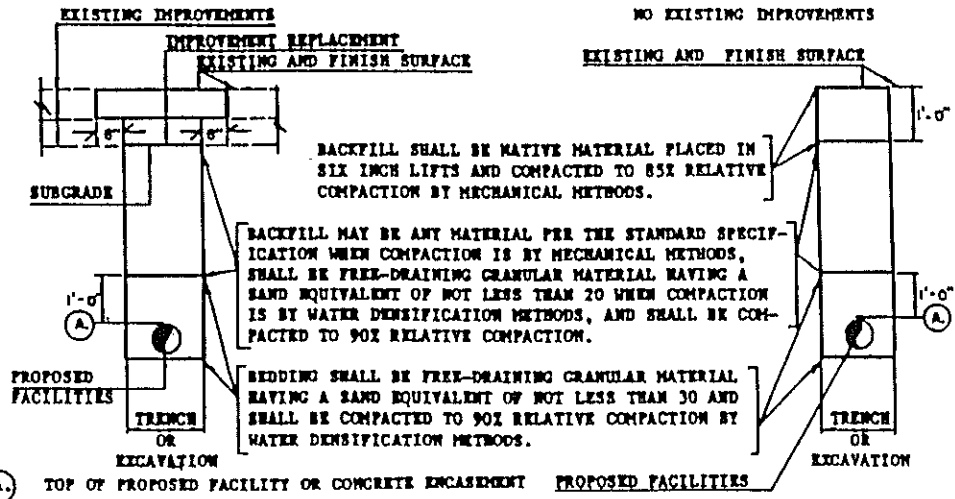
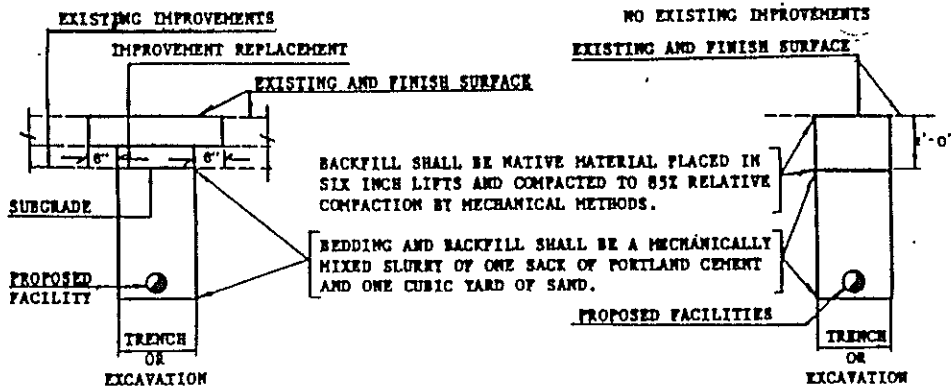


NOTES:
 CONDUIT SHALL BE THE SIZE SPECIFIED ON THE PLAN.
 GROUND ROD SHALL MEET SERVING UTILITY'S SPECIFICATIONS.
 SERVICE POINT EQUIPMENT SHALL BE PER PLAN SPECIFICATIONS.
 TERMINAL BOX TO BE FURNISHED BY CITY TO CONTRACTOR.



SLURRY BACKFILL

NATIVE BACKFILL

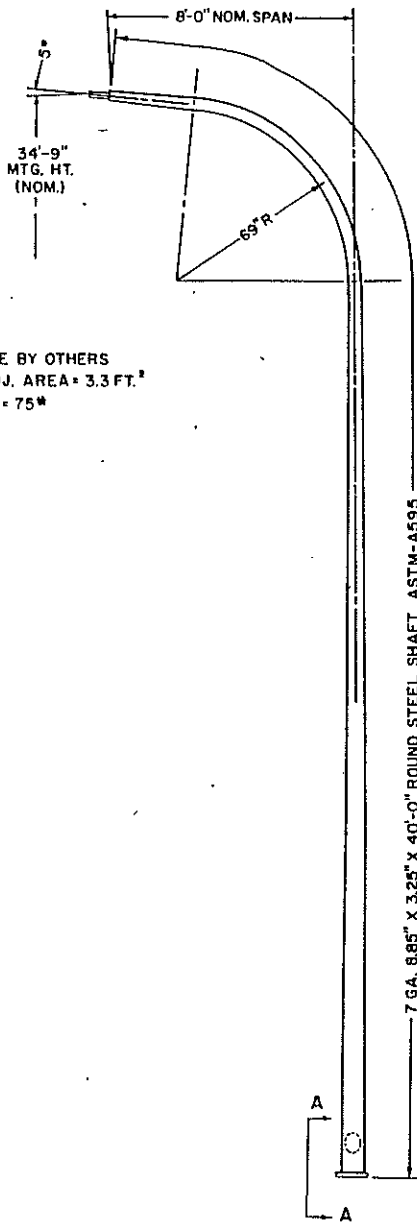


- NOTES:**
1. Minimum earth cover to be measured from gutter flow line
 2. Any work in Public Right-of-way requires a permit and inspection by the Dept. of Public Works.
 3. When H.D.C. is used, it shall be grounded, unless 10' or more is in the ground.
 4. For more specifics see Southern California Edison electrical service requirement manual Page 242.
 5. All work and material shall be in accordance with the "Standard Specifications for Public Works Construction", Latest Edition, including amendments and supplements thereto, as promulgated by A. G. C. and A. P. W. A.
 6. All testing, by an approved soils testing company or agency, shall be provided by the permittee as directed by and to the satisfaction of the City Engineer.
 7. Soil test will be required when using native backfill.

RECOMMENDED
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APPROVAL

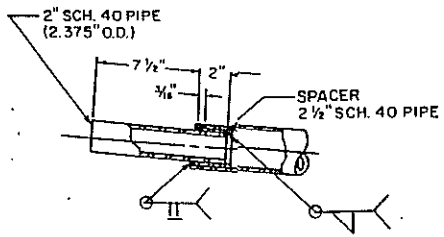
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|--|-----------------|-----------------|-------------------------|--|---------------------------|
| TRAFFIC ENGR. (DATE) <i>Clayton Knight</i> 5/22/93 CITY ENGR. CIVIL ENGR. No. 22-82 (DATE) | | | | | |
| No. | Date | Dr/App. | ITEM | | |
| CITY OF ALHAMBRA DEPARTMENT OF PUBLIC WORKS | | | | | |
| DIR. OF PUBLIC WORKS <i>[Signature]</i> | | | | | DATE: 5/21/93 |
| DESIGN <i>RF</i> | BY <i>RF</i> | DATE 5-21-93 | REFERENCES: P.S. No. | | DRWS. No. ST-18 |
| DRAWN <i>[Signature]</i> | CHECKED | DATE 5-7-93 | SHEET 1 of 1 | | |

UNDERGROUND ELECTRICAL SERVICE
WITHIN PUBLIC RIGHT OF WAY

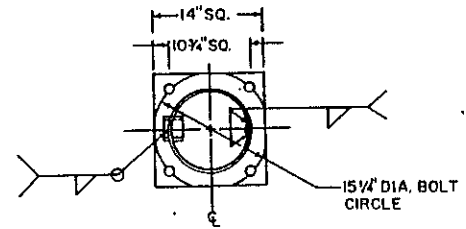


LUMINAIRE BY OTHERS
 MAX. PROJ. AREA = 3.3 FT.²
 MAX. WT. = 75*

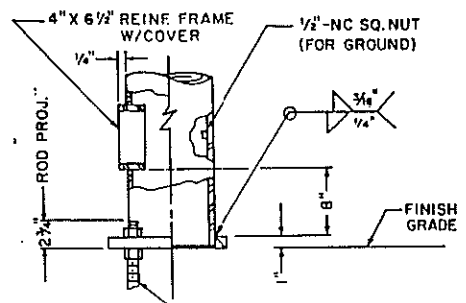
7 GA. 8.85" X 3.25" X 40"-O" ROUND STEEL SHAFT ASTM-A595



TENON DETAIL



DAVIT ARM



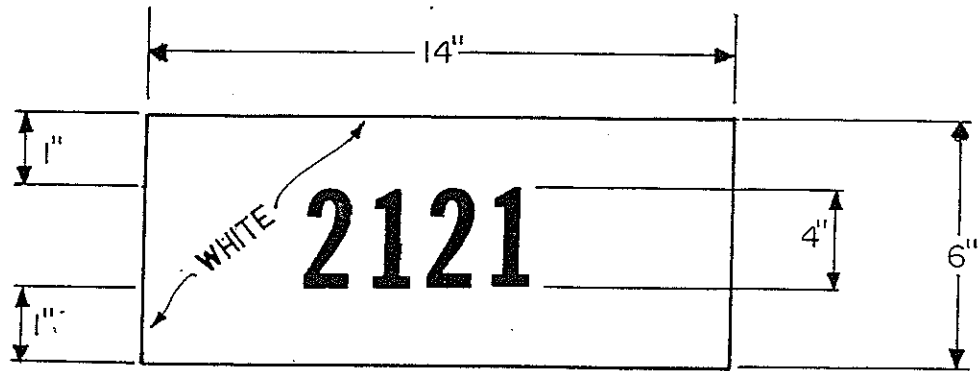
A-A

NOTES

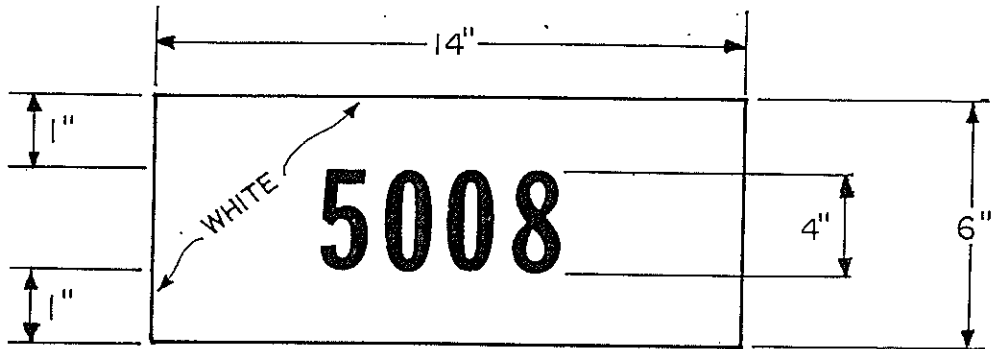
- 1. ALL WELDS BY CERTIFIED WELDER
- 2. WELDING PER U.B.C. SEC. 2702 (d-1)

| RECOMMENDED FOR APPROVAL | DATE |
|--------------------------|------|
| | |
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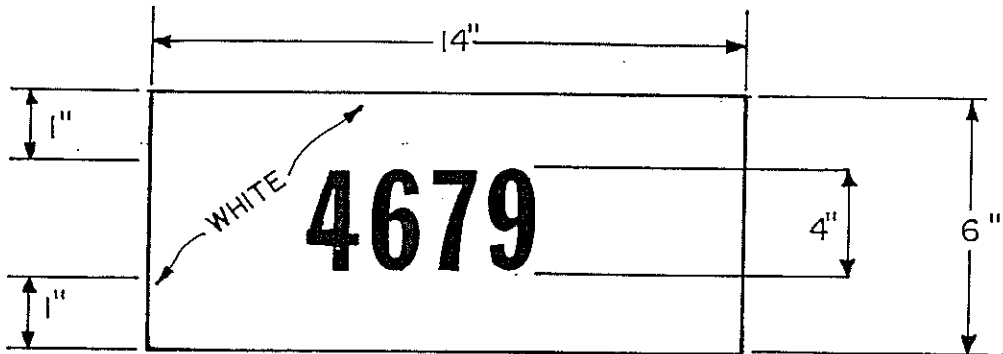
| | | | |
|--|------------|------------|--|
| - CITY OF ALHAMBRA - | | | |
| ENGINEERING AND STREET DEPARTMENT | | | |
| STEEL DAVIT STANDARD | | | |
| BY: <i>R. J. Miller</i> DIR. OF PUBLIC WORKS | | | DATE: 9-13-73 SCALE: NONE |
| DESIGNER: <i>R. J. Miller</i> DRAWN: B.T. CHECKED: | DATE: 8/73 | REVISIONS: | DRAWING NO.: ST-19 SHEET 1 of 1 SHEETS |



6" CURB FACE



8" CURB FACE



10" CURB FACE

RECOMMENDED
FOR
APPROVAL

| | | | | | |
|-----------------------------------|------|---------|------|--|--|
| TRAFFIC ENGR. (DATE) | 2 | | | | |
| CITY ENGR. CIVIL ENGR. No. (DATE) | 1 | | | | |
| Rev. No. | Date | By/App. | ITEM | | |

CITY OF ALHAMBRA

DEPARTMENT OF PUBLIC WORKS

[Signature]
DIR. OF PUBLIC WORKS

DATE: 3-29-91

SCALE: NTS

CURB ADDRESS NUMBER
SPECIFICATIONS

| | | | |
|---------|-----|---------|-------------|
| DESIGN | LAT | 3/15/91 | REFERENCES: |
| DRAWN | JP | 3/15/91 | F.B. No. |
| CHECKED | LAT | 3/29/91 | |

DRWG. No.
ST-20
SHT. 1 OF 4 SHTS

CITY OF ALHAMBRA

CURB ADDRESS NUMBER SPECIFICATIONS

FORMAT AND SIZE

A white field with black numbers shall be painted on the curb at each address. The field shall be 14" (fourteen inches) long and 6" (six inches) in height. The field shall be reflectorized by clear glass spherical beads, applied with force against the field paint while it is still tacky, and the beads must be firmly bonded to the paint upon drying.

The numbers shall be 2" (two inches) in width and 4" (four inches) in height. The numbers shall be centered in the field with a 1" (one inch) space between each. There shall be a 1" (one inch) border at the top and bottom, and a minimum 1 1/2" (one and one half inch) borders at both ends of the address numbers.

LOCATION



The numbers are to be located so that the tops of all numbers are 1" (one inch) below the top of curb. The numbers shall be parallel with the top of the curb and the axis of each number shall be perpendicular to the top of the curb.

On all interior lots: The address number shall be painted on the curb face a distance of 3" (three inches) from the beginning of the curb transition for the driveway. The side of the driveway on which the numbers shall be painted will vary and may be determined by which side of the lot the driveway is on. However, if the driveway is to the rear of the lot, the number will be painted directly in line with the front entrance to the house or business.

On corner lots: The address number will be painted on the front of the lot only. If the driveway entrance is located on the front of the lot, then the aforementioned pattern will be followed. However, if the driveway is on the side or to the rear of the lot, the number will be painted directly in line with the front entrance to the house or business.

On lots with more than one address: The field shall be located in the same position as indicated by the pattern, but will be 30" (thirty inches) in length. The lowest number will be located on

**RECOMMENDED
FOR
APPROVAL**

| | | | | |
|-----------------------------------|---|------|---------|------|
| TRAFFIC ENGR. (DATE) |  | | | |
| CITY ENGR. CIVIL ENGR. No. (DATE) |  | | | |
| | Rev. No. | Date | By/App. | ITEM |

CITY OF ALHAMBRA

DEPARTMENT OF PUBLIC WORKS

| | | | | |
|----------------------|-----|---------|----------|------------------|
| DIR. OF PUBLIC WORKS | | | | DATE: 3-29-91 |
| BY DATE REFERENCES: | | | | SCALE: NTS |
| DESIGN | LAT | 3/15/91 | F.B. No. | DRWG. No. |
| DRAWN | JP | 3/15/91 | | ST-20 |
| CHECKED | LAT | 3/29/91 | | SHT. 2 OF 4 SHTS |

LOCATION (cont.)

the left of the field with the required border spaces, the highest number will be located on the right side of the field with the required border spaces. A 2" (two inch) hyphen (-) must be centered between the two numbers.

APPLICATION

Prior to commencement of work the method of application shall be approved by the Traffic Engineering Supervisor or his/her designee.

REMOVAL OF OLD NUMBERS

If the existing numbers are painted on the curb face in the specified location, then the new number shall be painted over the existing number.

If the existing numbers are painted on the curb face but not in the aforementioned location, the old number is to be removed. The method may vary, but no method may be employed that would in any way damage the existing curb.

PAINT

The paint to be used for the field shall be white, luminous, with directional reflexivity not less than 80% relative to magnesium oxide.

The pigment of the paint shall not be less than 52% nor greater than 58% of the total composition of the product. The vehicle of the paint shall not be less than 42% nor greater than 48% of the total composition of the product. The vehicle shall contain not less than 39% non-volatile materials.

The paint shall have a viscosity in Krebs Units, as determined in the Krebs-Stormer Viscosimeter (ASTM D-562-55), within a range of 74 to 84.

The paint shall have a 30-minute drying time when applied at an 0.008 inch film thickness.

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APPROVAL

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|-----------------------------------|------|---------|------|--|--|
| TRAFFIC ENGR. (DATE) | | 2 | | | |
| CITY ENGR. CIVIL ENGR. No. (DATE) | | 1 | | | |
| Rev. No. | Date | By/App. | ITEM | | |

CITY OF ALHAMBRA

DEPARTMENT OF PUBLIC WORKS

DIR. OF PUBLIC WORKS

DATE: 3-29-91

SCALE: NT5

BY DATE REFERENCES:

DRWG. No.

DESIGN LAT 3/15/91 F.B. No.

ST-20

DRAWN JR 3/15/91

CHECKED LAT 3/29/91

SHT. 3 OF 4 SHTS

PAINT (cont.)

The paint shall meet flexibility, bleeding, dilution, hiding power, settling and stability tests; both Federal and Los Angeles County methods of testing. The paint shall be properly ground by mill grinding to a uniform consistency, with the pigments and vehicle mixed to a smooth paste. The pigments shall not settle excessively nor cake in the containers, and shall be readily broken up with a paddle to a consistency ready for spray application. The materials shall be free from all deleterious material and defects and imperfections that might affect the serviceability of the finished product.

The paint shall show inherent capabilities for retention of glass spheres, and shall be suitable for application to Portland Cement Concrete without bleeding or other discoloration. The paint shall dry with a tough, flexible, adherent film which will not crack, chip, peel, discolor, or excessively fade with exposure.

The paint for numbers shall be black in color, waterproof, and flat in finish.

Glass beads shall conform to California Department of Transportation (CALTRANS) State Specification No. 8010-51J-22 Type II.

RECOMMENDED
FOR
APPROVAL

| | | | | |
|-----------------------------------|------|---------|------|--|
| TRAFFIC ENGR. (DATE) | 2 | | | |
| CITY ENGR. CIVIL ENGR. No. (DATE) | 1 | | | |
| Rev. No. | Date | By/App. | ITEM | |

CITY OF ALHAMBRA

DATE: 3-29-91

DEPARTMENT OF PUBLIC WORKS

DIR. OF PUBLIC WORKS

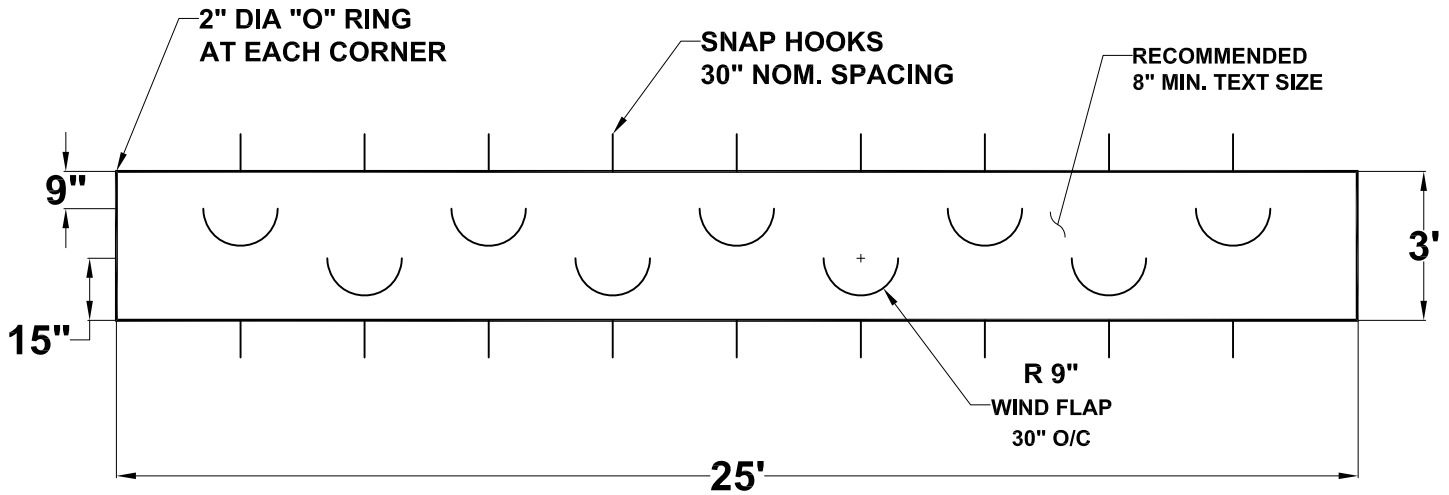
SCALE: NTS

| | BY | DATE | REFERENCES: |
|---------|-----|---------|-------------|
| DESIGN | LAT | 3/15/91 | F.B. No. |
| DRAWN | JP | 3/15/91 | |
| CHECKED | LAT | 3/29/91 | |

DRWG. No.

ST-20


SHT. 4 OF 4 SHTS

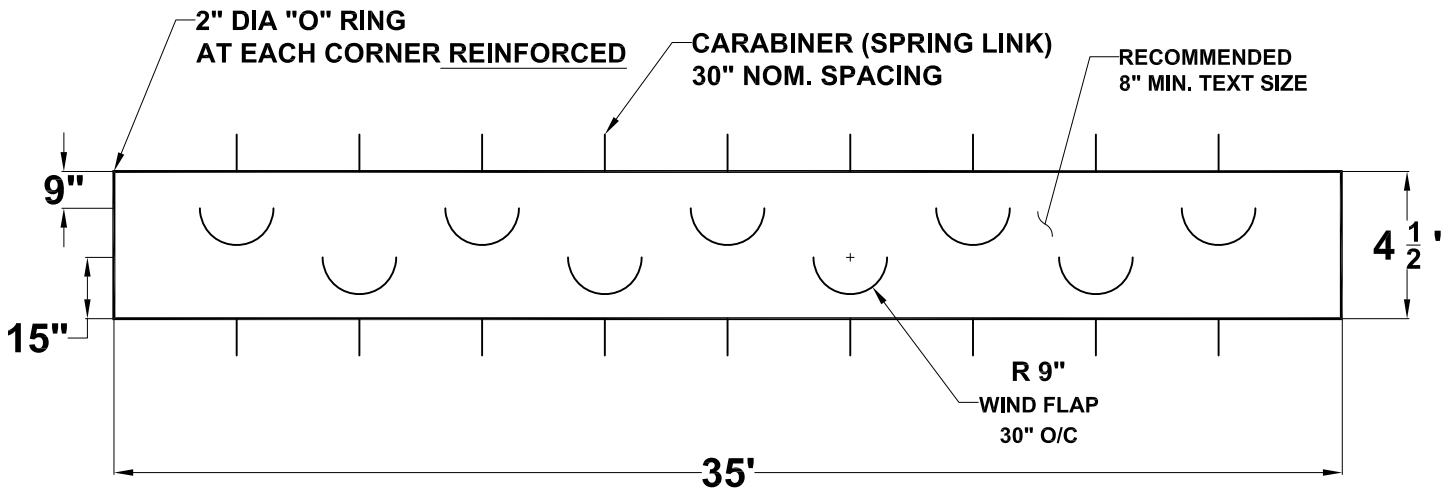


STREET BANNER SPECIFICATIONS

Street banners are to be 3' x 25' in size. The banner shall have "O" rings (at each corner) and carabiners (Spring Link) $4\frac{9}{16}$ " along the top and bottom, using a 30" nominal spacing. The banner shall have two rows of 9" radius wind flaps, using a 30" nominal spacing. Banner material shall be heavy vinyl or canvas.

RECOMENDATION: The City of Alhambra recommends 8" minimum text size for adequate visibility.


| | | | | | | | | | | | | | | | | |
|---|------|---|---|--|---|---|------|---|---|------|--------------------------|-----|------|---------|---------------------------------------|--|
| <table border="1"> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>7/05</td> <td>ADE WIND FLAP 9" RADIUS W/30" NOMINAL SPACING</td> </tr> <tr> <td>1</td> <td>3/93</td> <td>ECW CORNER O RIGN- 2"DIA</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>By/App.</td> </tr> </table> | | | 3 | | | 2 | 7/05 | ADE WIND FLAP 9" RADIUS W/30" NOMINAL SPACING | 1 | 3/93 | ECW CORNER O RIGN- 2"DIA | REV | DATE | By/App. | <h3>STREET BANNER SPECIFICATIONS</h3> | |
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| CITY OF ALHAMBRA DEPARTMENT OF PUBLIC WORKS | | | DIR. OF PUBLIC WORKS _____ DATE _____ CITY ENGINEER _____ DATE _____ |  <p>City of Alhambra Los Angeles County, CA</p> | DRWG. NO. <h2 style="text-align: center;">ST-21</h2> SHT. 1 OF 1 SHTS. | | | | | | | | | | | |



STREET BANNER SPECIFICATIONS

Street banners are to be 4 1/2' x 35' in size. The banner shall have "O" rings and carabiners (Spring Link) 5/16" x 3 1/4" along the top and bottom, using a 30" nominal spacing. The banner shall have two rows of 9" radius wind flaps, using a 30" nominal spacing. Banner material shall be heavy vinyl or canvas.

RECOMENDATION: The City of Alhambra recommends 8" minimum text size for adequate visibility.

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|---|------|---|--|------|--|---|------|---|---|------|--------------------------|-----|------|---------|---------------------------------------|--|
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| | | |  <small>Gateway to the San Gabriel Valley</small> City of Alhambra Los Angeles County, CA | | | | | | | | | | | | | |
| | | | DRWG. NO. <h2>ST-21 F</h2> | | | | | | | | | | | | | |
| | | | SHT. 1 OF 1 SHTS. | | | | | | | | | | | | | |