



City of Avondale
Engineering Services
11465 W. Civic Center Drive
Avondale, Arizona 85323-6804
Phone: (623) 333-4000 Fax: (623) 333-0420

CITY OF AVONDALE

GENERAL ENGINEERING REQUIREMENTS

AMENDMENT

June 30, 2025

The City of Avondale General Engineering Requirements 2018, and Avondale Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction 2018 are hereby amended:

1. Avondale Supplemental to Mag Uniform Standard Specifications and Details for Public Works Construction 2018

- A. 1600 Series of Details is hereby amended to include new details for Flood Control District Levee Multi-Use Path, Paved Multi-Use Path with 20' Easement/ RW, Unpaved Multi-Use Path with 20' Easement/ RW, and Back Country Multi-Use Path, 7'- 8' in Exhibit "A", as attached, and summarized as follows:
- i. Standard Detail A1650 Flood Control District Levee Multi-Use Path
 - ii. Standard Detail A1651 Paved Multi-Use Path with 20' Easement/ RW
 - iii. Standard Detail A1652 Unpaved Multi-Use Path with 20' Easement/ RW
 - iv. Standard Detail A1653 Back Country Multi-Use Path, 7'- 8'

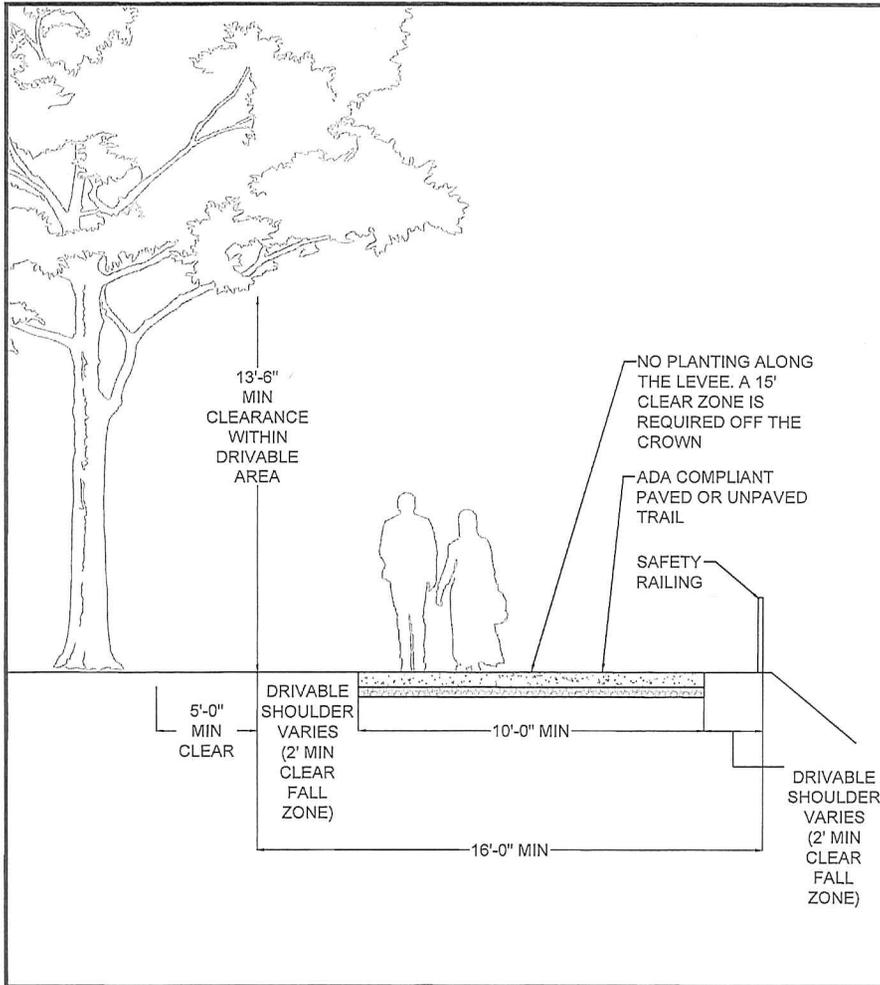
If a conflict or ambiguity arises in documents, the following order prevails: (1) this amendment, (2) previous amendments from most recent to oldest, (3) the Avondale General Engineering Requirements 2018, (4) the Avondale Supplement to MAG Uniform Standard Specifications and Details, and (5) related documents.

Documents are available online at www.avondaleaz.gov under the Engineering Department.

Kimberly J. Moon, P.E.

Director of Engineering/City Engineer

KM/bec



APPLICANT MUST VERIFY WITH FLOOD CONTROL DISTRICT OF MARICOPA COUNTY THE FOLLOWING:

MATERIALS:

- PAVED TRAIL SHOULD BE 6" DEPTH CLASS 8 CONCRETE SLURRY ON 4" BASE MATERIAL WITH SAW-CUT JOINTS, OR 3" DEPTH ASPHALT CONCRETE OVER 4" AGGREGATE BASE COURSE
- DEPTH OF SECTION IS ULTIMATELY PER GEOTECHNICAL REPORT (DETERMINE THICKNESS BASED ON LOAD FOR EMERGENCY VEHICLE ACCESS)
- DRIVABLE SHOULDER SHOULD BE PAVED OR COMPACTED AGGREGATE BASE COURSE (SUB-BASE SOILS SHOULDER BE COMPACTED TO 95% (MIN) STANDARD PROCTOR)

LAYOUT:

- INSTALL 4'-8" HEIGHT SAFETY RAILING WHERE SHOULDER IS 5' OR LESS, PER FLOOD CONTROL DISTRICT STANDARD DETAIL 145-1, WITH TYPE 4 FOOTINGS
- A CLEARANCE HEIGHT OF 13'-6" SHOULD BE MAINTAINED ABOVE DRIVABLE AREA (16' MIN DRIVABLE WIDTH, PER DETAIL). KEEP 5' MIN CLEARANCE BETWEEN DRIVABLE ZONE AND TREE TRUNKS.

SLOPES:

- CROSS SLOPE IS 2% MAX
- TYPICAL LONGITUDINAL SLOPE IS 5% MAX
- DESIGN PER ADA REQUIREMENTS
- A POTENTIAL SLOPE EASEMENT MAY NEED TO BE REQUIRED
- SLOPES WITHIN FALL ZONE CANNOT EXCEED 6:1
- NOTE: NO TREES TO BE PLANTED ON BACK SLOPES OF LEVEES

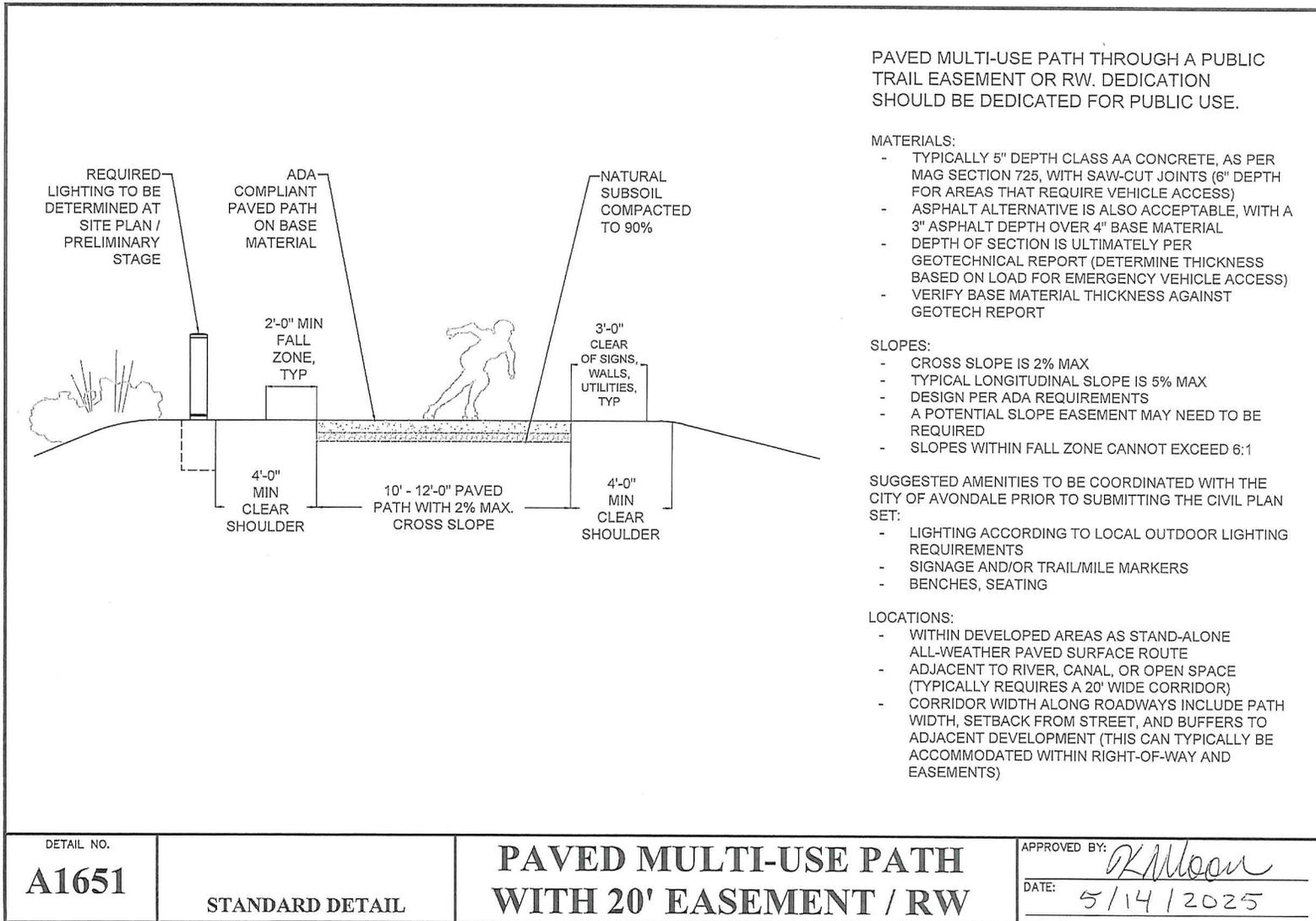
SUGGESTED AMENITIES TO BE COORDINATED WITH THE CITY OF AVONDALE PRIOR TO SUBMITTING THE CIVIL PLAN SET:

- LIGHTING ACCORDING TO LOCAL OUTDOOR LIGHTING REQUIREMENTS (ALLOWED ON POLES AND RAILS; REQUIRES FLOOD CONTROL AND CITY APPROVAL)
- SIGNAGE WITH MAP AND TRAIL INFO, TRAIL/MILE MARKERS WHERE NECESSARY
- NO BENCHES OR TRASH CANS ON LEVEE

RAIL REQUIREMENTS:

- IF THE SIDE SLOPE IS A VERTICAL DROP TO A 2:1 SLOPE, INSTALL A PIPE RAIL WITH ATTACHED CHAIN LINK FABRIC OR OTHER RESTRICTION TO PROTECT AGAINST FALL HAZARDS.
- IF THE SIDE SLOPE FALLS BETWEEN 2:1 AND 6:1 SLOPE, INSTALL PIPE RAIL ONLY, UNLESS SLOPE PRESENTS OTHER HAZARDS.
- IF THE SIDE SLOPE FALLS BETWEEN 6:1 AND A FLAT AREA, NO PIPE RAIL IS REQUIRED (UNLESS NOTED OTHERWISE BY DISTRICT STAFF)

DETAIL NO. <h2 style="margin: 0;">A1650</h2>	STANDARD DETAIL	<h1 style="margin: 0;">FLOOD CONTROL DISTRICT LEVEE MULTI-USE PATH</h1>	APPROVED BY: <i>[Signature]</i> DATE: 5/14/2025
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PAVED MULTI-USE PATH THROUGH A PUBLIC TRAIL EASEMENT OR RW. DEDICATION SHOULD BE DEDICATED FOR PUBLIC USE.

MATERIALS:

- TYPICALLY 5" DEPTH CLASS AA CONCRETE, AS PER MAG SECTION 725, WITH SAW-CUT JOINTS (6" DEPTH FOR AREAS THAT REQUIRE VEHICLE ACCESS)
- ASPHALT ALTERNATIVE IS ALSO ACCEPTABLE, WITH A 3" ASPHALT DEPTH OVER 4" BASE MATERIAL
- DEPTH OF SECTION IS ULTIMATELY PER GEOTECHNICAL REPORT (DETERMINE THICKNESS BASED ON LOAD FOR EMERGENCY VEHICLE ACCESS)
- VERIFY BASE MATERIAL THICKNESS AGAINST GEOTECH REPORT

SLOPES:

- CROSS SLOPE IS 2% MAX
- TYPICAL LONGITUDINAL SLOPE IS 5% MAX
- DESIGN PER ADA REQUIREMENTS
- A POTENTIAL SLOPE EASEMENT MAY NEED TO BE REQUIRED
- SLOPES WITHIN FALL ZONE CANNOT EXCEED 6:1

SUGGESTED AMENITIES TO BE COORDINATED WITH THE CITY OF AVONDALE PRIOR TO SUBMITTING THE CIVIL PLAN SET:

- LIGHTING ACCORDING TO LOCAL OUTDOOR LIGHTING REQUIREMENTS
- SIGNAGE AND/OR TRAIL/MILE MARKERS
- BENCHES, SEATING

LOCATIONS:

- WITHIN DEVELOPED AREAS AS STAND-ALONE ALL-WEATHER PAVED SURFACE ROUTE
- ADJACENT TO RIVER, CANAL, OR OPEN SPACE (TYPICALLY REQUIRES A 20' WIDE CORRIDOR)
- CORRIDOR WIDTH ALONG ROADWAYS INCLUDE PATH WIDTH, SETBACK FROM STREET, AND BUFFERS TO ADJACENT DEVELOPMENT (THIS CAN TYPICALLY BE ACCOMMODATED WITHIN RIGHT-OF-WAY AND EASEMENTS)

DETAIL NO.

A1651

STANDARD DETAIL

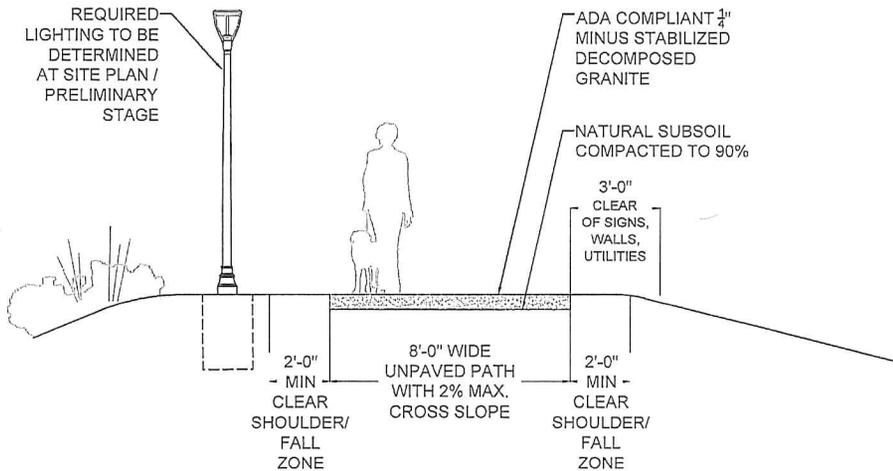
PAVED MULTI-USE PATH WITH 20' EASEMENT / RW

APPROVED BY:

K Moon

DATE:

5/14/2025



NOTE: TRAIL TYPE TO BE CONFIRMED WITH CITY OF AVONDALE

MATERIALS:

- MIN 4" DEPTH 1/4" MINUS COMPACTED STABILIZED DECOMPOSED GRANITE WITH STEEL EDGES (MIN 4" THICK MATERIAL WITH 95% MIN PROCTOR DENSITY COMPACTION)
- DEPTH OF SECTION IS ULTIMATELY PER GEOTECHNICAL REPORT (DETERMINE THICKNESS BASED ON LOAD FOR EMERGENCY VEHICLE ACCESS)
- VERIFY BASE MATERIAL THICKNESS AGAINST GEOTECH REPORT

SLOPES:

- CROSS SLOPE IS 2% MAX
- TYPICAL LONGITUDINAL SLOPE IS 5% MAX
- DESIGN PER ADA REQUIREMENTS
- A POTENTIAL SLOPE EASEMENT MAY NEED TO BE REQUIRED
- SLOPES WITHIN FALL ZONE CANNOT EXCEED 6:1

SUGGESTED AMENITIES:

- LIGHTING ACCORDING TO LOCAL OUTDOOR LIGHTING REQUIREMENTS
- SIGNAGE WITH MAP AND TRAIL INFO, TRAIL/MILE MARKERS WHERE NECESSARY
- BENCHES, SEATING

LOCATIONS:

- WITHIN DEVELOPED AREAS ALONG ROADWAYS (*TYPICALLY REQUIRES A 20' MIN WIDE CORRIDOR; SETBACK DISTANCE FROM STREET AND THUS CORRIDOR WIDTH INCREASES UPON ROADWAY CLASSIFICATION)
- ADJACENT TO RIVER, CANAL, OR OPEN SPACE (TYPICALLY REQUIRES A 20' MIN WIDE CORRIDOR)
- CORRIDOR WIDTH ALONG ROADWAYS INCLUDE PATH WIDTH, SETBACK FROM STREET, AND BUFFERS TO ADJACENT DEVELOPMENT (THIS CAN TYPICALLY BE ACCOMMODATED WITHIN RIGHT-OF-WAY AND EASEMENTS)

DETAIL NO. A1652	STANDARD DETAIL	UNPAVED MULTI-USE PATH WITH 20' EASEMENT / RW	APPROVED BY: <i>R. Moon</i> DATE: <u>5/14/2025</u>
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V-DITCH:
LOCATION
DEPENDENT
UPON
DRAINAGE
PATTERNS

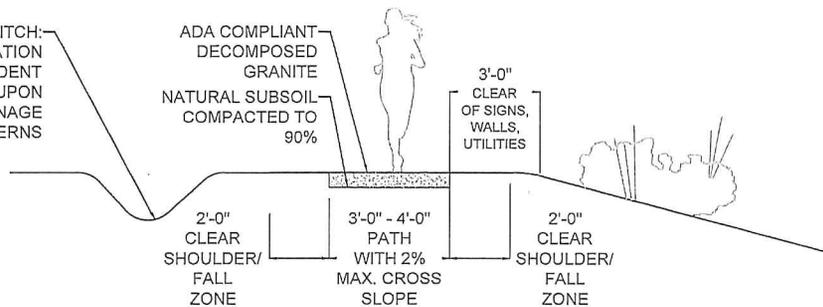
ADA COMPLIANT
DECOMPOSED
GRANITE
NATURAL SUBSOIL
COMPACTED TO
90%

3'-0"
CLEAR
OF SIGNS,
WALLS,
UTILITIES

2'-0"
CLEAR
SHOULDER/
FALL
ZONE

3'-0" - 4'-0"
PATH
WITH 2%
MAX. CROSS
SLOPE

2'-0"
CLEAR
SHOULDER/
FALL
ZONE



MATERIALS:

- DECOMPOSED GRANITE (MIN 4" THICK MATERIAL WITH 95% MIN PROCTOR DENSITY COMPACTION)
- WEED BARRIER SPRAY TREATMENT REQUIRED FOR ALL BACK COUNTRY TRAILS
- DEPTH OF SECTION IS ULTIMATELY PER GEOTECHNICAL REPORT (DETERMINE THICKNESS BASED ON LOAD FOR EMERGENCY VEHICLE ACCESS)
- VERIFY BASE MATERIAL THICKNESS AGAINST GEOTECH REPORT

SLOPES:

- CROSS SLOPE IS 2% MAX
- TYPICAL LONGITUDINAL SLOPE IS 5% MAX
- DESIGN PER ADA REQUIREMENTS
- A POTENTIAL SLOPE EASEMENT MAY NEED TO BE REQUIRED
- SLOPES WITHIN FALL ZONE CANNOT EXCEED 6:1

SUGGESTED AMENITIES:

- SIGNAGE WITH MAP AND TRAIL INFO, TRAIL/MILE MARKERS
- BENCHES, SEATING

LOCATIONS:

- WITHIN DEVELOPED AREAS ALONG ROADWAYS (*TYPICALLY REQUIRES AN 8' MIN WIDE CORRIDOR; SETBACK DISTANCE FROM STREET AND THUS CORRIDOR WIDTH INCREASES UPON ROADWAY CLASSIFICATION)
- ADJACENT TO RIVER, CANAL, OR OPEN SPACE (TYPICALLY REQUIRES A 8' MIN WIDE CORRIDOR)
- CORRIDOR WIDTH ALONG ROADWAYS INCLUDE PATH WIDTH, SETBACK FROM STREET, AND BUFFERS TO ADJACENT DEVELOPMENT (THIS CAN TYPICALLY BE ACCOMMODATED WITHIN RIGHT-OF-WAY AND EASEMENTS)

NOTE: A TRANSITION MAY BE NEEDED IN THE EVENT THE TRAIL WIDTH IS CHANGED.

DETAIL NO.

A1653

STANDARD DETAIL

**BACK COUNTRY MULTI-USE
PATH, 7' - 8'**

APPROVED BY:

K. Moon

DATE:

5/14/2025



CITY OF AVONDALE
GENERAL ENGINEERING REQUIREMENTS
AMENDMENT

July 31, 2024

The City of Avondale General Engineering Requirements Manual 2018, Avondale Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction 2018 are hereby amended:

1. City of Avondale General Engineering Requirements Manual 2018

a. Chapter 7 Non-City Utilities (Private Utility Companies), Section 7.10 Telecommunications

A new section, 7.10 Telecommunications, is hereby created to incorporate Engineering Process Instructions for Telecommunications in the Right-of-Way, as Exhibit 'A', attached.

2. Avondale Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction 2018

a. 1700 Series Street Light & Traffic Signal Information

The 1700 Series of Details is hereby amended to revised existing and include new details for streetlights and traffic signals in Exhibit 'B', as attached.

If a conflict or ambiguity arises in documents, the following order prevails: (1) this amendment, (2) any previous amendments from most recent to oldest, (3) the Avondale General Engineering Requirements 2018, (4) the Avondale Supplement to MAG Uniform Standard Specifications and Details, and (5) related documents.

Documents are available online at www.avondaleaz.gov under the Engineering Department.

A handwritten signature in blue ink that reads "K Moon".

Kimberly J. Moon, P.E.
Director of Engineering/City Engineer

KM/bec

Enclosures:

- Exhibit 'A' Engineering Process Instructions for Telecommunications
- Exhibit 'B' Revised and New Details in 1700 Series Street Light & Traffic Signal Information



Exhibit 'A'

Process Instructions

The process for installing Telecommunications in the Right-of-Way (ROW) includes six steps:

- 1 – Wired Telecommunications License and Right-of-Way Use Agreement
- 2 – Pre-Application Meeting
- 3 – Submittal of Engineering Telecommunications Plan Review Form and Plans
- 4 – Submittal of Engineering Fiber Permit Application and required supporting documentation
- 5 – Permit Approval and Issuance
- 6 – Annual ROW use fees

1. Wired Telecommunications License and Right-of-Way Agreement

Before any permit is issued for telecommunications in the right-of-way (ROW), the applicant shall have obtained a license and ROW agreement for installation of wired telecommunications. This requires the approval of Avondale City Council. Please complete the application ([found HERE](#)) and provide all the supporting documentation listed on the form.

Submit completed Application for ROW License Form to emailengineering@avondalez.gov

2. Pre-Application Meeting

After the license agreement is drafted, the next step involves review of the preliminary site plan that will be the basis for the construction drawing submitted for review. A meeting will be scheduled by City staff with the City's engineering, planning, building, IT, public works and traffic staff to identify any opportunities or challenges for fiber installation at each proposed location. Such a review *could* require a site visit if deemed necessary, at which time the site should be blue staked and have ROW line marked *prior* to walk.

3. Submittal of Engineering Telecommunications Plan Review Form and Plans

Follow these steps to submit Fiber Plans for review:

- a. Log in to [Accela Citizen Access](#)
- b. Select Building/Engineering/Fire
- c. Select Create an Application
- d. Agree to terms and select continue
- e. Select Engineering Permits > Improvement Plan > Continue Application
- f. Fill in all required data and upload documents, including Plan Review Submittal Form ([found HERE](#))
- g. Upon complete submittal, City staff will send an invoice. The Plan Review fee is \$375/sheet for 1st review, invoiced and charged prior to 1st review commencing. Subsequent reviews are \$375/redlined sheet and are calculated after each review, collected before the next submittal.

*****NOTE: The approval of a Fiber Plan Review Submittal does not grant the Fiber Provider any implied or expressed rights or reservations to use the ROW. The use of a City-owned ROW for Fiber installation is only reserved upon the issuance of a Permit by the City.*****

Engineering Department

11465 W. Civic Center Drive, #120, Avondale, AZ 85323 ♦ Phone (623) 333-4200 ♦ Fax (623) 333-0420 ♦ TDD (623) 333-0010
www.avondalez.gov/engineering

Per A.R.S. § 9-495, an employee able to provide additional information is available at 623-333-4200 and EmailEngineering@avondalez.gov
All inquiries will receive a response within five business days.

4. Submittal of Engineering Telecommunications Permit Application

Follow these steps to submit an Engineering Fiber Permit Application:

- a. Log in to [Accela Citizen Access](#)
- b. Select My Records
- c. Select the Record for this project (ENG-xx-xxxx)
- d. Select Record Info > Attachments
- e. On the attachments screen, select Add to upload documents
- f. Upload Permit Application ([found HERE](#)) and all required documents

5. Permit Approval and Issuance

Upon satisfactory completion of the plan review and permit application, the City will approve the Engineering permit to allow work in the ROW. When the permit is ready, a City staff member will notify the applicant to advise them of the status and any required fees that will be due.

6. Annual ROW use fees

Annual fees are listed in the License Agreement. Please refer to your agreement for details regarding lineal footage fees, self-reporting requirements and due dates.

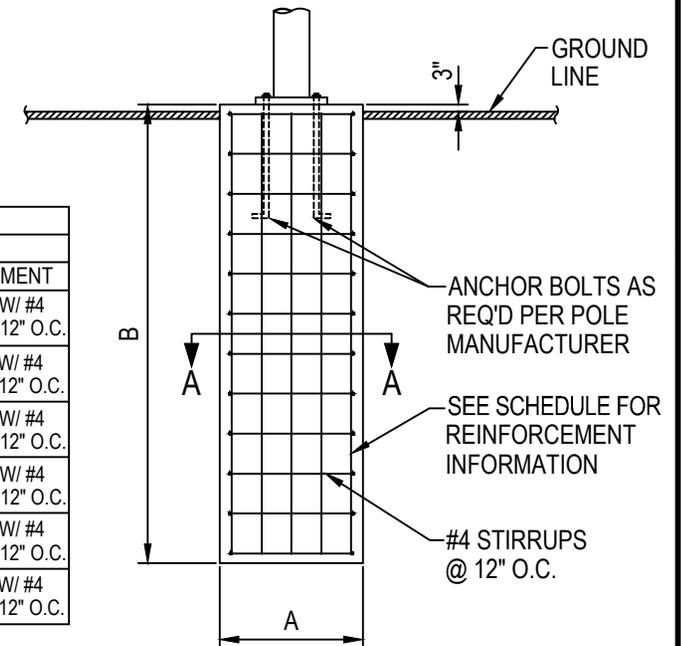
Engineering Department

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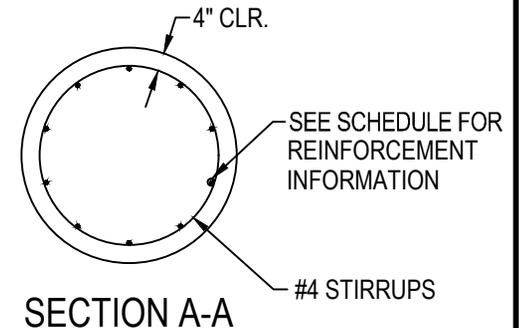
Exhibit 'B'

ALLOWABLE PASSIVE SOIL PRESSURE	100 PSF / FT			150 PSF / FT			200 PSF / FT		
MAXIMUM PASSIVE SOIL PRESSURE	1,000 PSF			1,500 PSF			2,000 PSF		
FOOTING DIMENSIONS	A	B	REINFORCEMENT	A	B	REINFORCEMENT	A	B	REINFORCEMENT
35'-45' MAST ARM	3'-6"	20'-4"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.	3'-6"	15'-9"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.	3'-6"	13'-3"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.
			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.
			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.
55' MAST ARM	4'-0"	19'-9"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.	4'-0"	15'-3"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.	4'-0"	12'-9"	10 - #8 BAR W/ #4 STIRRUPS AT 12" O.C.
			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.			13 - #7 BAR W/ #4 STIRRUPS AT 12" O.C.
			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.			17 - #6 BAR W/ #4 STIRRUPS AT 12" O.C.



NOTE:

1. THE FOOTING DESIGN DOES NOT APPLY TO TRAFFIC SIGNALS LOCATED NEAR THE TOP OF ESCARPMENTS OR RIDGES OR IN THE UPPER HALF OF HILLS WITH ABRUPT GRADE CHANGES EXCEEDING 15 VERTICAL FEET.
2. FOOTING SIZES & REINFORCEMENT SHALL BE CONSTRUCTED USING THE "100 PSF/FT" VALUES (OUTLINED IN BOLD) UNLESS A GEOTECHNICAL EXPLORATION & RECOMMENDATION ALLOWS FOR HIGHER SOIL CAPACITIES.
3. THE FOUNDATION DESIGN IS ADEQUATE TO SUPPORT SIGNAL POLES MANUFACTURED BY VALMONT INDUSTRIES, OR AN APPROVED EQUAL PROVIDED THE MAXIMUM LOADING SHOWN ON THIS DETAIL IS NOT EXCEEDED. IF THE LOADS ARE EXCEEDED, THE CONTRACTOR SHALL HAVE THE FOUNDATION ANALYZED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.



DETAIL NO.
A1740

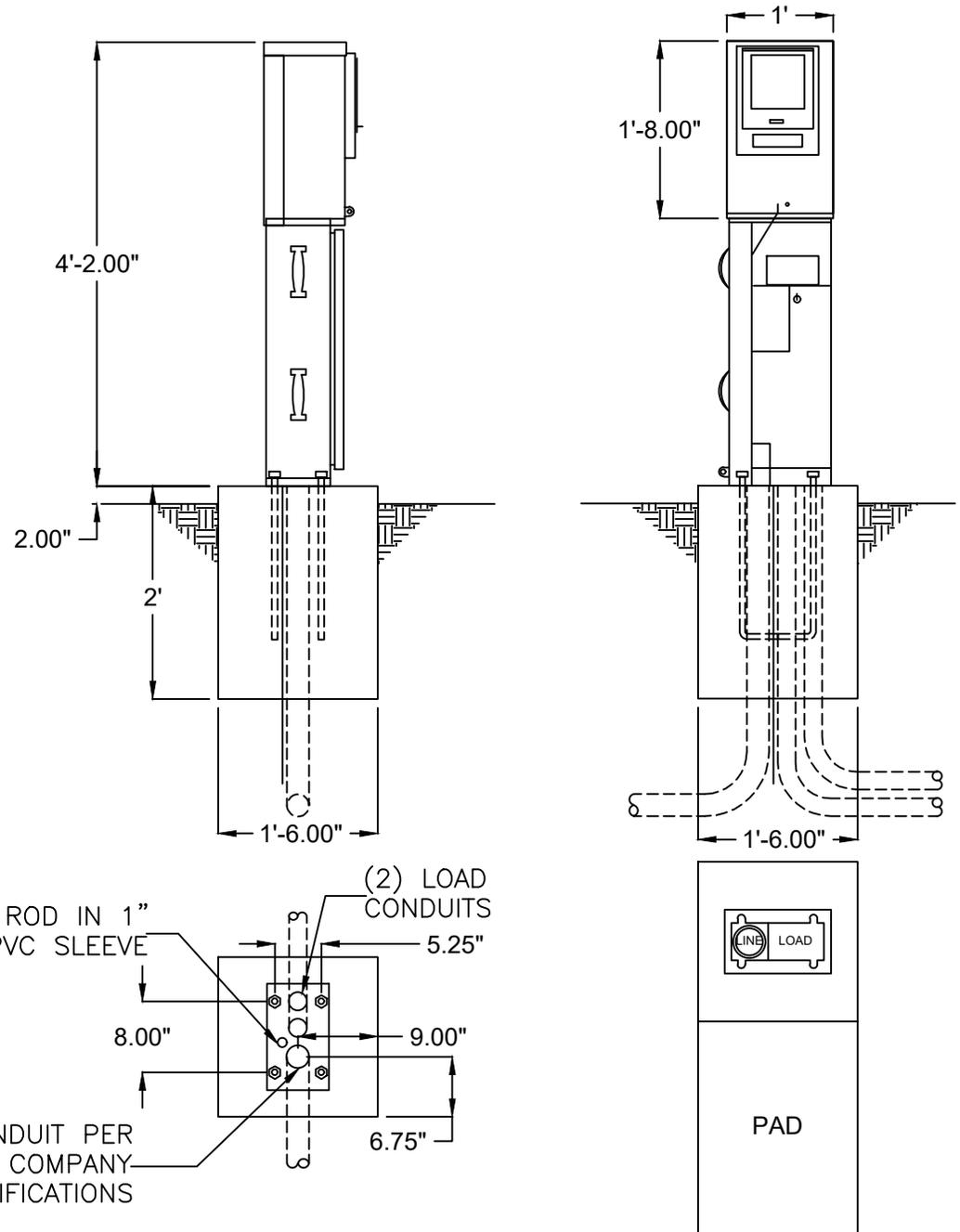
Avondale
STANDARD DETAIL

**TROMBONE STYLE TRAFFIC
SIGNAL POLE FOUNDATION**

APPROVED BY:
K. MOON
DATE:
7-31-2024

GENERAL NOTES:

1. SEE PLANS FOR CONDUIT SIZE, LOCATION, AND QUANTITY.
2. UNSTABLE SOIL MAY REQUIRE A DEEPER FOUNDATION. SEE ADOT SPECIFICATIONS
3. ANCHOR BOLTS SHALL BE GALVANIZED STEEL, 5/8" x 18" x 4", COMPLETE WITH NUTS AND WASHERS.
4. CONDUIT SHALL PROJECT ABOVE THE FOUNDATION A MINIMUM OF 2" AND A MAXIMUM OF 4". CONDUITS SHALL BE CAPPED.
5. 1" SLEEVE FOR GROUND ROD SHALL BE PLACED IN EXACT LOCATION PER CABINET MANUFACTURER'S REQUIREMENTS. SLEEVE SHALL BE FLUSH WITH TOP OF FOUNDATION.
6. ALL CABINET FOUNDATIONS SHALL HAVE A 5/8" x 10' BONDED GROUND ROD.
7. SILICON CAULK SHALL BE USED TO SEAL GAP BETWEEN CABINET AND FOUNDATION.
8. IN UNPAVED AREAS, A RAISED PCC PAD 24" x 4" x 24" SHALL BE PLACED IN FRONT OF THE CABINET. THE PAD SHALL BE SET 2" BELOW THE FOUNDATION ELEVATION AND SLOPED AWAY FROM THE CABINET.
9. METER SHALL BE 26-000 SINGLE METER TESCOFLEX PEDESTAL 100 AMP 120/240V.



DETAIL NO.

A1750

Avondale
STANDARD DETAIL

**METER PEDESTAL &
FOUNDATION**

APPROVED BY:

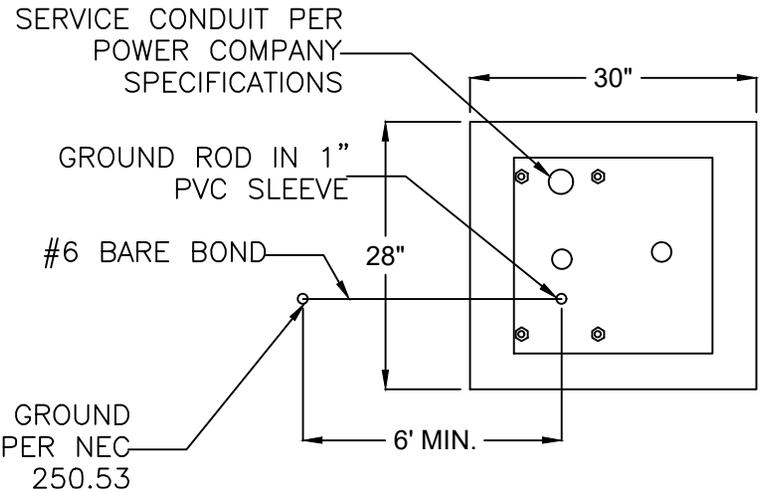
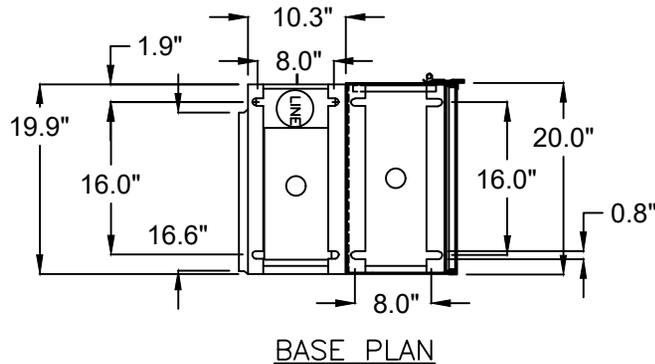
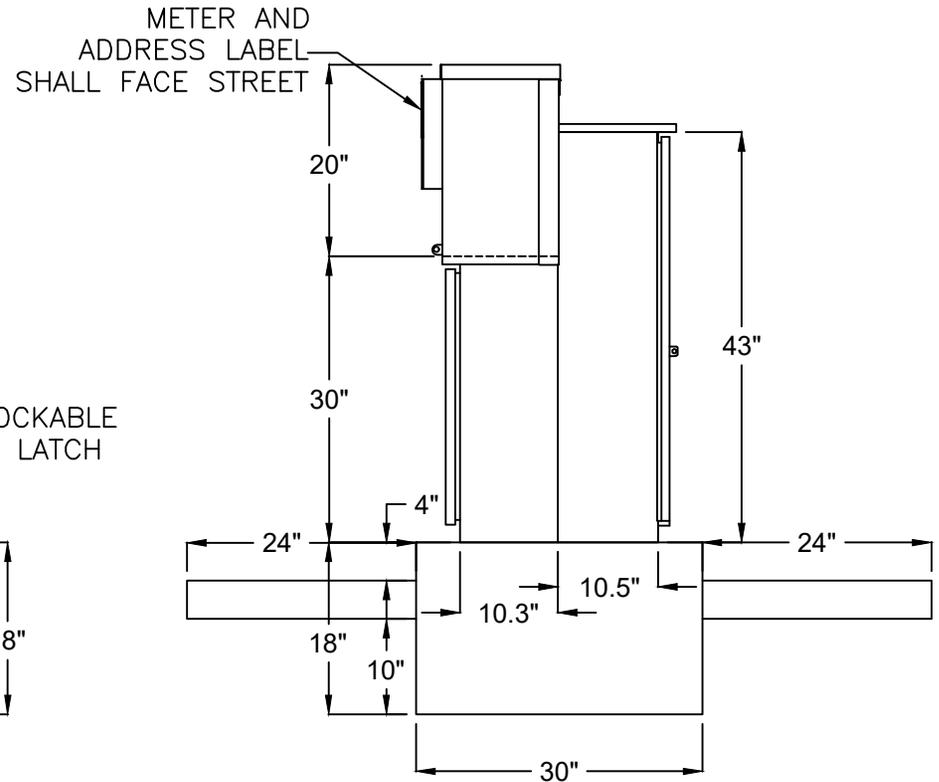
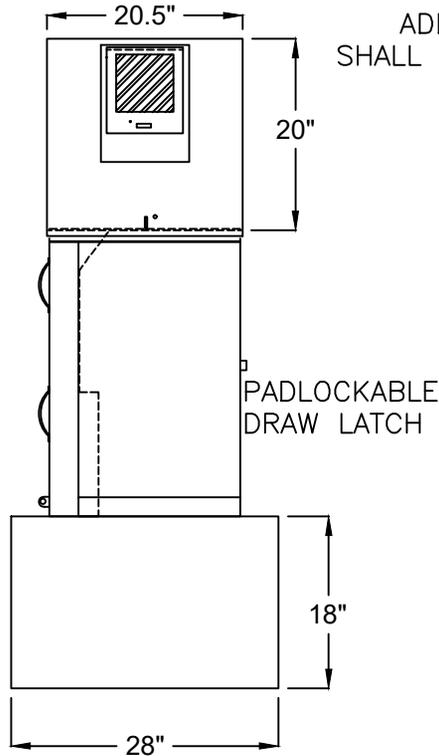
K. MOON

DATE:

7-31-2024

GENERAL NOTES:

1. SEE PLANS FOR CONDUIT SIZE, LOCATION, AND QUANTITY.
2. UNSTABLE SOIL MAY REQUIRE A DEEPER FOUNDATION. SEE ADOT SPECIFICATIONS
3. ANCHOR BOLTS SHALL BE GALVANIZED STEEL, 5/8" x 18" x 4", COMPLETE WITH NUTS AND WASHERS.
4. CONDUIT SHALL PROJECT ABOVE THE FOUNDATION A MINIMUM OF 2" AND A MAXIMUM OF 4". CONDUITS SHALL BE CAPPED.
5. 1" SLEEVE FOR GROUND ROD SHALL BE PLACED IN EXACT LOCATION PER CABINET MANUFACTURER'S REQUIREMENTS. SLEEVE SHALL BE FLUSH WITH TOP OF FOUNDATION.
6. ALL CABINET FOUNDATIONS SHALL HAVE A 5/8" x 10' BONDED GROUND ROD.
7. SILICON CAULK SHALL BE USED TO SEAL GAP BETWEEN CABINET AND FOUNDATION.
8. IN UNPAVED AREAS, A RAISED PCC PAD 24" x 4" x 24" SHALL BE PLACED IN FRONT OF THE CABINET. THE PAD SHALL BE SET 2" BELOW THE FOUNDATION ELEVATION AND SLOPED AWAY FROM THE CABINET.
9. METER SHALL BE (COMBINATION BBS) 27-000/22-000 BBS PEDESTAL 100 AMP 120/240V.



DETAIL NO.

A1751

Avondale
STANDARD DETAIL

**METER PEDESTAL WITH
BATTERY BACKUP**

APPROVED BY:

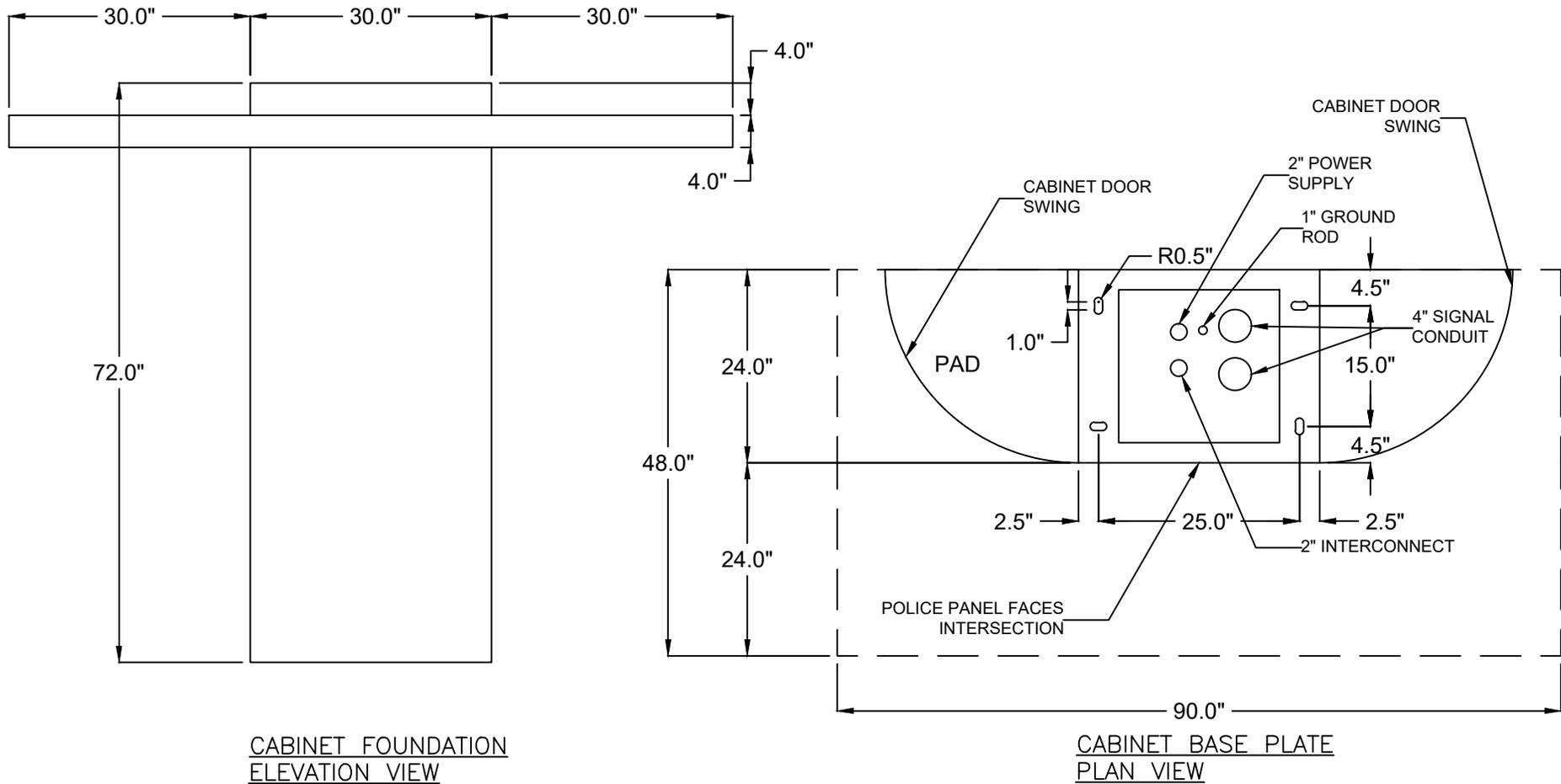
K. MOON

DATE:

7-31-2024

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE CITY OF AVONDALE STANDARD DETAILS, LATEST EDITION; THE 2000 ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"; THE 2004 ADOT "TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS"; AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2.5" MIN. AND 4" MAX AND SHALL HAVE SMOOTH BELL ENDS ATTACHED.
3. IN UNPAVED AREAS A CONCRETE PAD 30" x 4" x THE WIDTH OF FOUNDATION, SHALL BE PLACED ON BOTH SIDES OF THE CABINET. PAD SHALL BE SET 4" BELOW THE FOUNDATION ELEVATION. SLOPE PAD AWAY FROM CABINET. SEE ADOT STD. DWG. T.S. 2-1.
4. 1" SLEEVE (FOR GROUND ROD) SHALL BE INSERTED WHEN FOUNDATION IS POURED. INSTALL A 5/8" DIAMETER x 10' LONG BONDED COPPER GROUND ROD IN 1" SLEEVE.
5. PRIOR TO POURING CONCRETE FOUNDATION, FINAL APPROVAL OF CONDUIT PLACEMENT FROM TRAFFIC OPERATIONS R DESIGNEE SHALL BE OBTAINED.



CABINET FOUNDATION
ELEVATION VIEW

CABINET BASE PLATE
PLAN VIEW

DETAIL NO.

A1752

Avondale
STANDARD DETAIL

**CONTROLLER CABINET
FOUNDATION**

APPROVED BY:

K. MOON

DATE:

7-31-2024

IMSA CABLE 19-1, #14 AWG, 20 CONDUCTOR

CABLE COLOR AND PHASE ASSIGNMENTS

CABLE 1	CABLE 2	MAIN COLOR	STRIPE	SIGNAL INTERVAL
Ø1	Ø5	RED	WHITE	RED
	OVERLAP A	BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
Ø2	Ø6	RED		RED
	OVERLAP B	ORANGE		YELLOW
		GREEN		GREEN
Ø3	Ø7	BLACK	RED	RED
	OVERLAP C	ORANGE	RED	YELLOW
		BLUE	RED	GREEN
Ø4	Ø8	RED	BLACK	RED
	OVERLAP D	ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
Ø2 PED	Ø6 PED	BLUE		WALK
		BLACK		DON'T WALK
		WHITE	BLACK	PUSH BUTTON
Ø4 PED	Ø8 PED	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
		WHITE		P.B. COMMON
		BLUE	BLACK	SPARE

7 CONDUCTOR CABLE

BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHT/BLK TR	VEH. COM.

4 CONDUCTOR CABLE

SIGNAL HEADS	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

4 CONDUCTOR CABLE

PUSH BUTTON & PEDESTRIAN HEAD		
BASIC COLOR	PUSH BUTTON	PEDESTRIAN HEAD
BLACK	PUSH BUTTON	SPARE
WHITE	P.B. COM.	PED. COM.
RED	SPARE	DON'T WALK
GREEN	SPARE	WALK

CABLE TAPING COLOR

CABINET CORNER	RED
CLOCKWISE 1	WHITE
CLOCKWISE 2	BLUE
CLOCKWISE 3	GREEN

DETAIL NO.

A1753

Avondale

STANDARD DETAIL

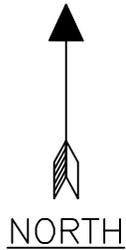
IMSA CONDUCTOR CABLE COLOR & MARKING ASSIGNMENTS

APPROVED BY:

K. MOON

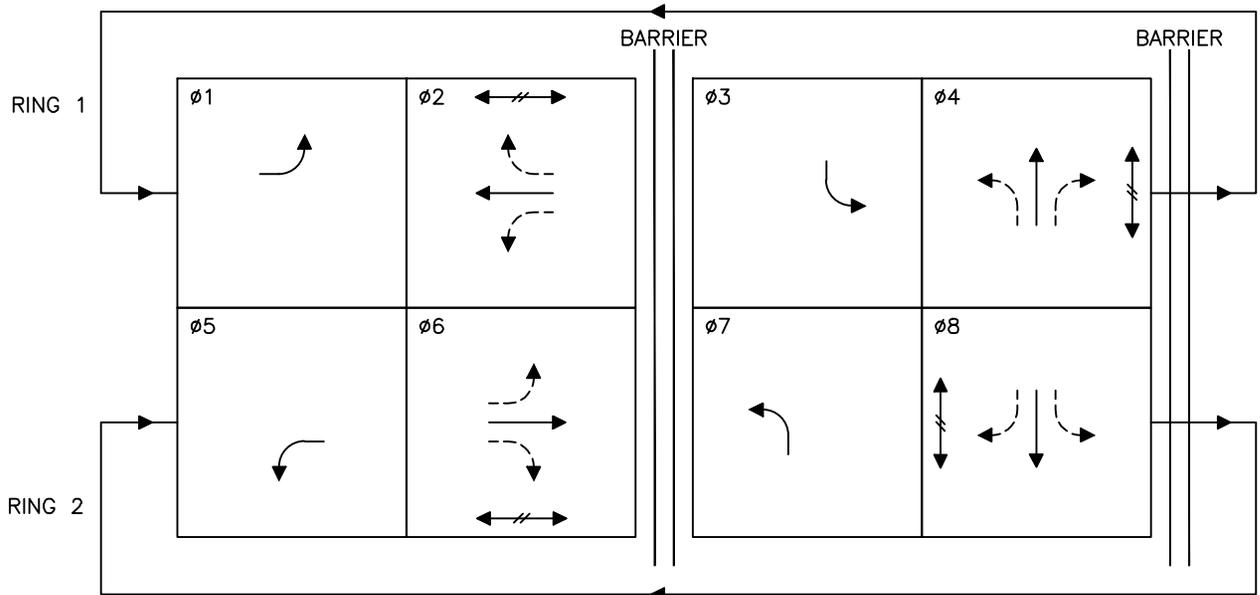
DATE:

7-31-2024

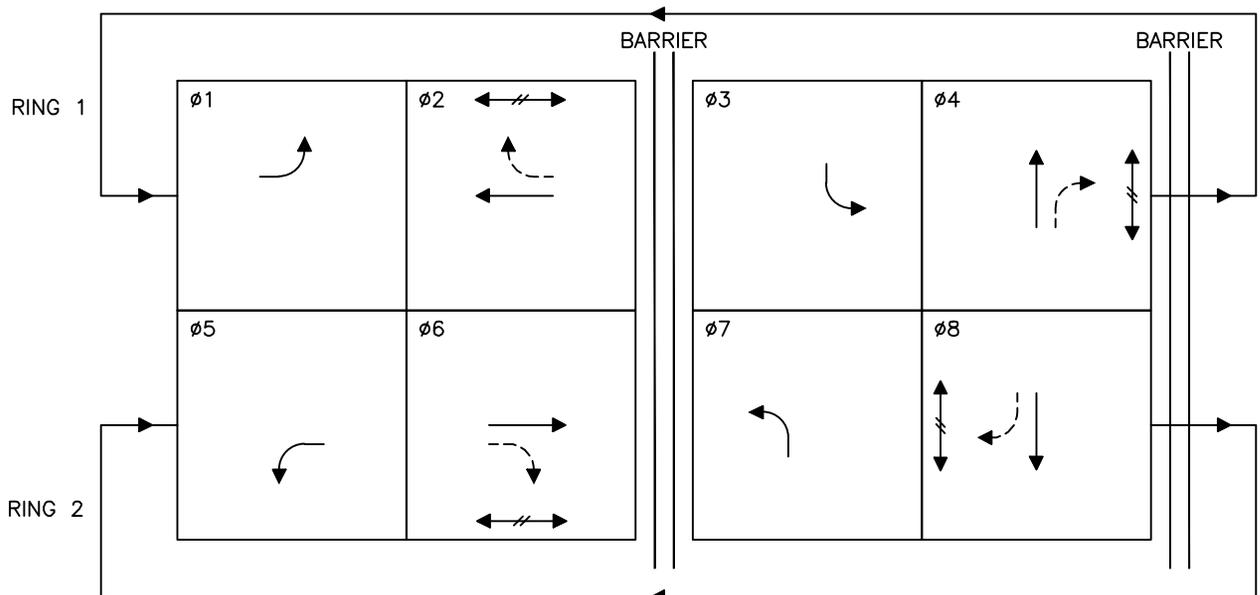


LEGEND

- PROTECTED
- PERMISSIVE
- PEDESTRIAN



8 PHASE PROTECTED/PERMISSIVE LEFT TURN



8 PHASE PROTECTED LEFT TURN

DETAIL NO.

A1754

Avondale
STANDARD DETAIL

SIGNAL PHASING DIAGRAM

APPROVED BY:

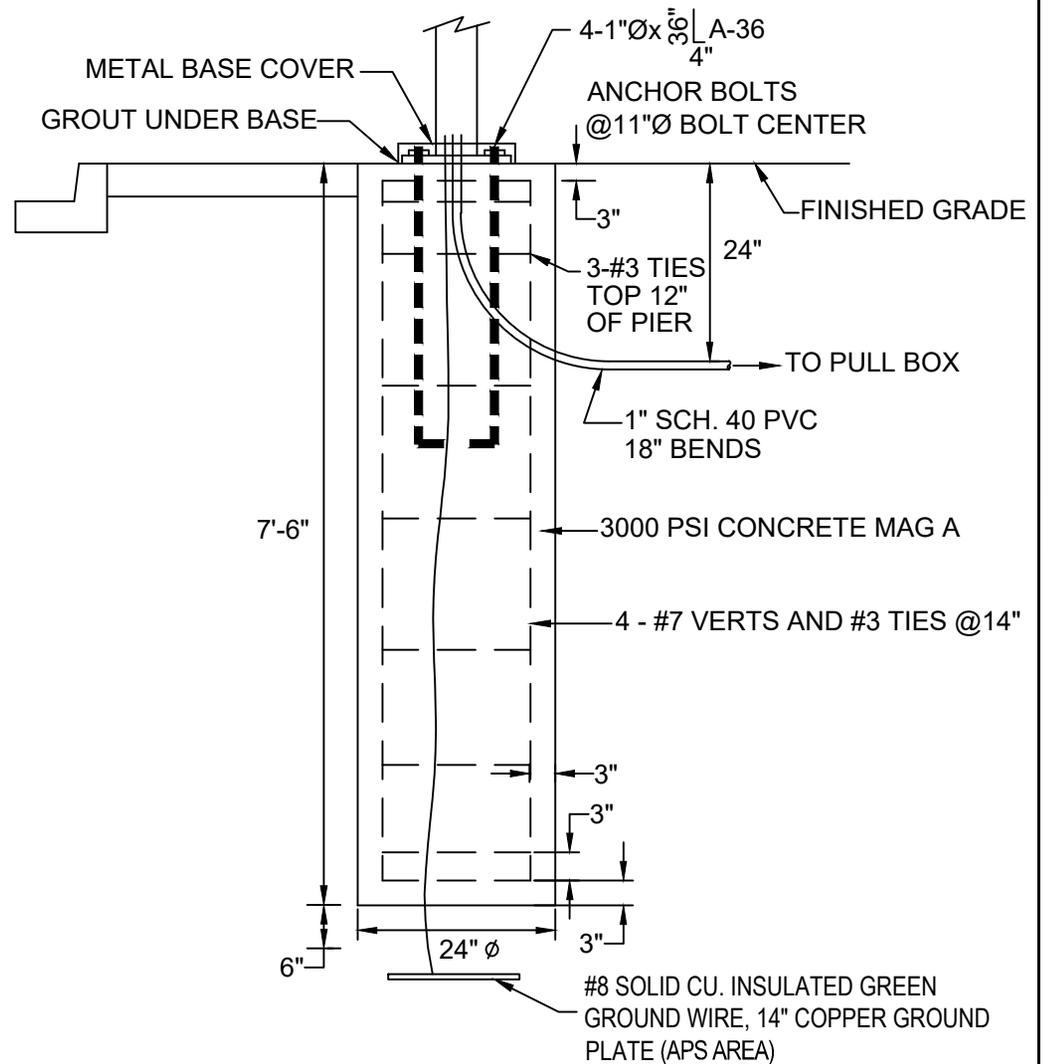
K. MOON

DATE:

7-31-2024

NOTES:

1. REINF A615 GRADE 60 EXCEPT #3 GRADE 40
2. TOP OF FOUNDATION SHALL BE FINISHED WITH A SMOOTH SURFACE WITH A 1" CHAMFERED EDGE.
3. POLE FOUNDATION SHALL CURE FOR 14 DAYS BEFORE INSTALLING LIGHT POLES.
4. ALL FINISHED POLE FOUNDATIONS SHALL BE AT SIDEWALK GRADE.
5. ANCHOR BOLTS SHALL BE FULLY GALVINIZED PER ASTM A-153.
6. CONCRETE PLACEMENT SHALL FOLLOW MAG SPECIFICATIONS.
7. DO NOT FREEFALL CONCRETE IN EXCESS OF 5'.
8. A VIBRATOR SHALL BE USED TO DISTRIBUTE CONCRETE & REDUCE AIRVOIDS.
9. MAXIMUM SLUMP SHALL NOT EXCEED 5".
10. GROUT (NON-SHRINK) BASE AFTER POLE HAS BEEN LEVELED.
11. TOP 1' OF FOUNDATION SHALL HAVE A 24" Ø SONATUBE IN PLACE WHEN POURING CONCRETE. REMOVE FORM AFTER CONCRETE HAS CURED.



DETAIL NO. A1784-1	Avondale STANDARD DETAIL	ARCHITECTURAL STYLE STREET LIGHT FOUNDATION	APPROVED BY: _____ K. MOON DATE: _____ 7-31-2024
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SPECIFICATONS:

DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS

POLE SHAFT: THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED SQUARE TUBING THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI PER ASTM 500B.

ANCHOR BASE: THE BASE PLATE IS FABRICATED FROM A STRUCTURAL QUALITY HOT-ROLLED CARBON PLATE THAT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM A36. IT HAS A MINIMUM YIELD STRENGTH OF 36,000 PSI.

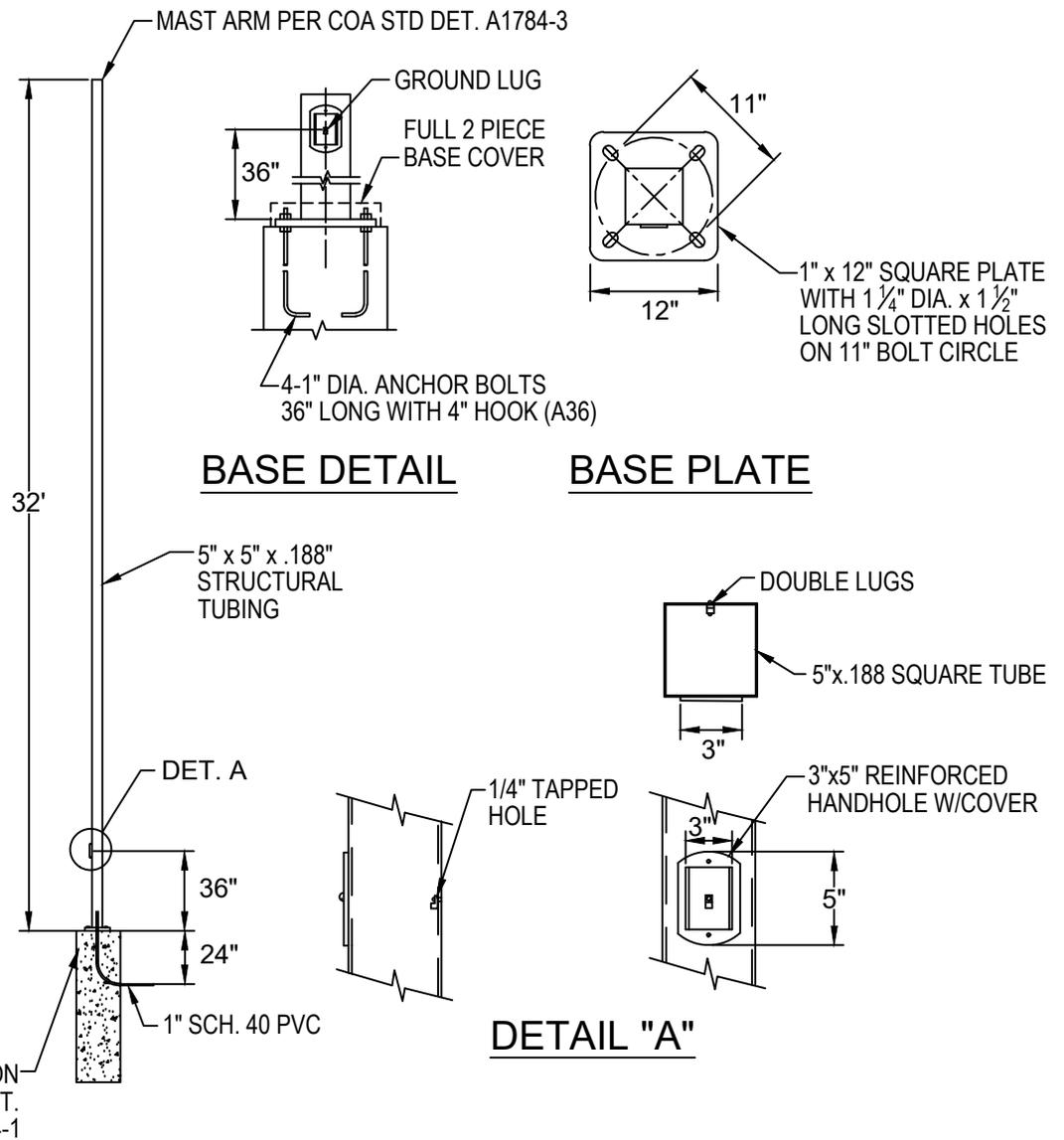
ANCHOR BOLTS: ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM A153.

HANDHOLE: THE HANDHOLE CONSISTS OF A 3"x5" OVAL REINFORCED FRAME WITH 16 GAUGE COVER, STEEL ATTACHMENT BAR AND 1/4" SCREW. A GROUNDING LUG IS INSTALLED INSIDE THE POLE SHAFT OPPOSITE THE HANDHOLE OPENING. THE HANDHOLE IS WELDED IN THE POLE SHAFT.

FINISH: THE POLE IS SAND BLASTED TO A NEAR WHITE FINISH AND TREATED WITH AN IRON PHOSPHATE SOLUTION. A HIGH QUALITY POLYESTER POWDER (BRONZE) IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 4 MIL. THICKNESS.

NOTES:

1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGE SHALL BE REMOVED PRIOR TO PAINTING.
2. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.



DETAIL NO.
A1784-2

Avondale
STANDARD DETAIL

**ARCHITECTURAL STYLE
STREET LIGHT POLE**

APPROVED BY:
K. MOON
DATE:
7-31-2024

SPECIFICATONS:

DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS

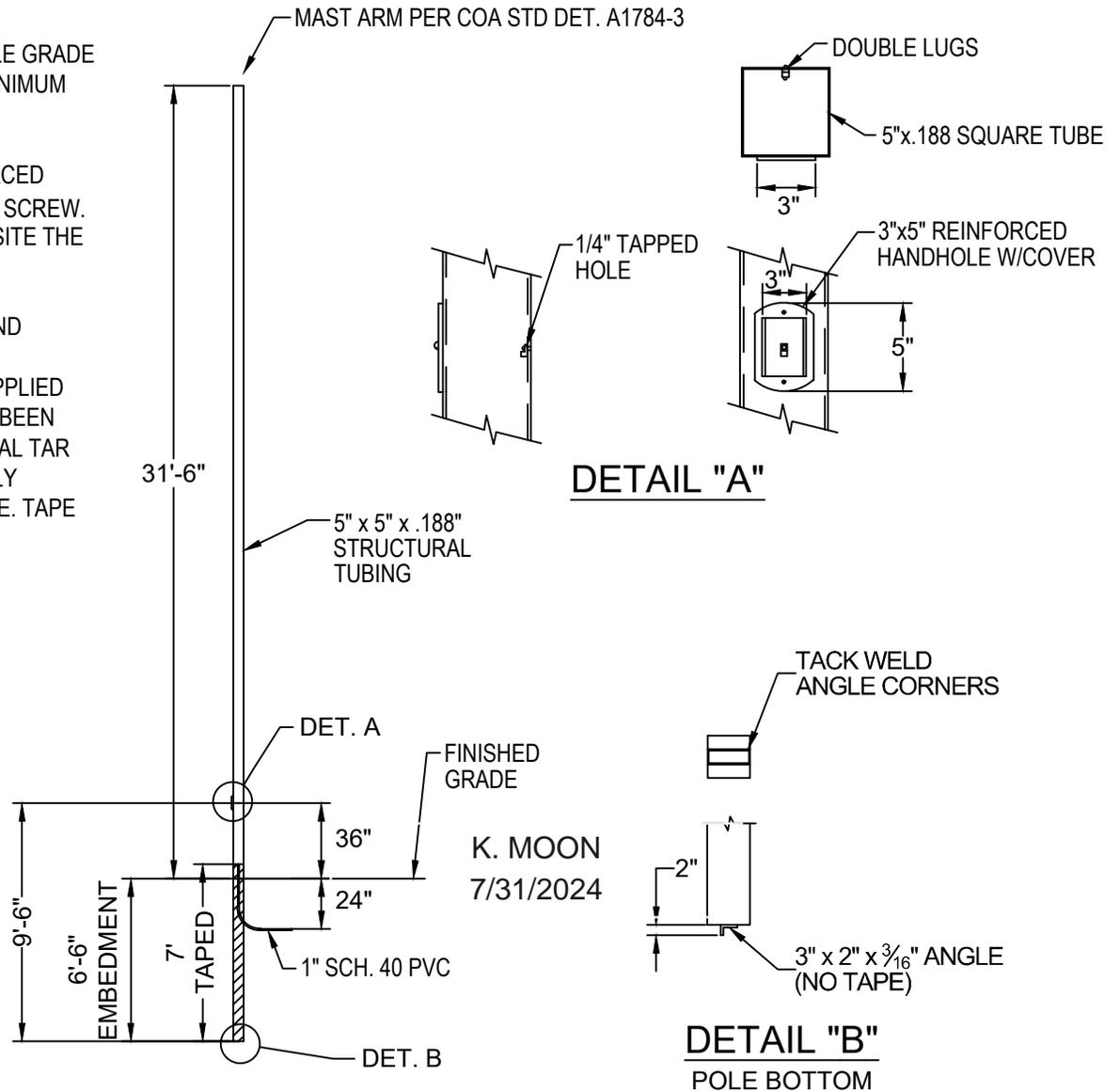
POLE SHAFT: THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED SQUARE TUBING THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI PER ASTM 500B.

HANDHOLE: THE HANDHOLE CONSISTS OF A 3"x5" OVAL REINFORCED FRAME WITH 16 GAUGE COVER, STEEL ATTACHMENT BAR AND 1/4" SCREW. A GROUNDING LUG IS INSTALLED INSIDE THE POLE SHAFT OPPOSITE THE HANDHOLE OPENING. THE HANDHOLE IS WELDED IN THE POLE.

FINISH: THE POLE IS SAND BLASTED TO A NEAR WHITE FINISH AND TREATED WITH AN IRON PHOSPHATE SOLUTION. A HIGH QUALITY POLYESTER POWDER (BRONZE) IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 4 MIL. THICKNESS. AFTER FINISH HAS BEEN APPLIED, THE BOTTOM OF THE POLE SHALL BE COATED WITH COAL TAR EPOXY, 20 MILS THICK DRY. AFTER EPOXY HAS DRIED CONFORMLY HALF-LAP WRAP POLE WITH 20-MIL TAPE TO 6" ABOVE GRADE LINE. TAPE SHALL BE UNIFORM WITHOUT FOLDS, WRINKLES OR GAPS.

NOTES:

1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGE SHALL BE REMOVED PRIOR TO PAINTING.
2. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.
3. ONLY TO BE USED WITH SPECIAL PERMISSION FROM CITY OF AVONDALE.
4. CONDUIT ENTRANCE TO BE MADE OF 1 1/2" MIN. I.D. PIPE. IT SHALL BE FLUSH WITH FACE OF POLE AND WELDED AT A 45 DEGREE ANGLE. REMOVE ALL BURRS.
5. SEE DETAIL A1787 FOR EMBEDMENT.



DETAIL NO.
A1784-5

Avondale
STANDARD DETAIL

ARCHITECTURAL DIRECT
BURY STREET LIGHT POLE

APPROVED BY:
K. MOON
DATE:
7-31-2024

SPECIFICATONS:

DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS

POLE SHAFT: THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED SQUARE TUBING THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI PER ASTM 500B.

ANCHOR BASE: THE BASE PLATE IS FABRICATED FROM A STRUCTURAL QUALITY HOT-ROLLED CARBON PLATE THAT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM A36. IT HAS A MINIMUM YIELD STRENGTH OF 36,000 PSI.

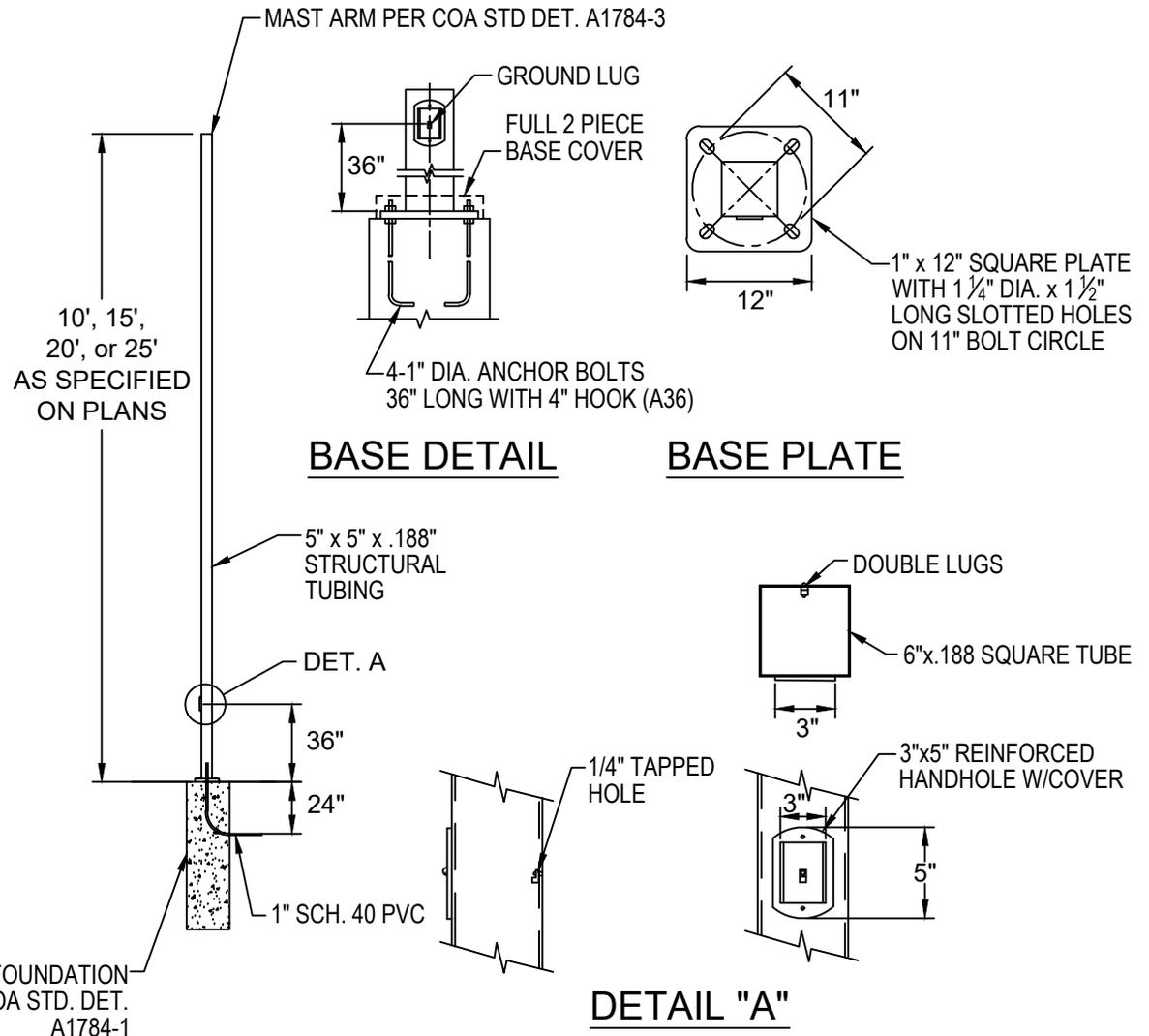
ANCHOR BOLTS: ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM A153.

HANDHOLE: THE HANDHOLE CONSISTS OF A 3"x5" OVAL REINFORCED FRAME WITH 16 GAUGE COVER, STEEL ATTACHMENT BAR AND 1/4" SCREW. A GROUNDING LUG IS INSTALLED INSIDE THE POLE SHAFT OPPOSITE THE HANDHOLE OPENING. THE HANDHOLE IS WELDED IN THE POLE SHAFT.

FINISH: THE POLE IS SAND BLASTED TO A NEAR WHITE FINISH AND TREATED WITH AN IRON PHOSPHATE SOLUTION. A HIGH QUALITY POLYESTER POWDER (BRONZE) IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 4 MIL. THICKNESS.

NOTES:

1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGE SHALL BE REMOVED PRIOR TO PAINTING.
2. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.
3. TO BE USED UNDER OHE LINES.

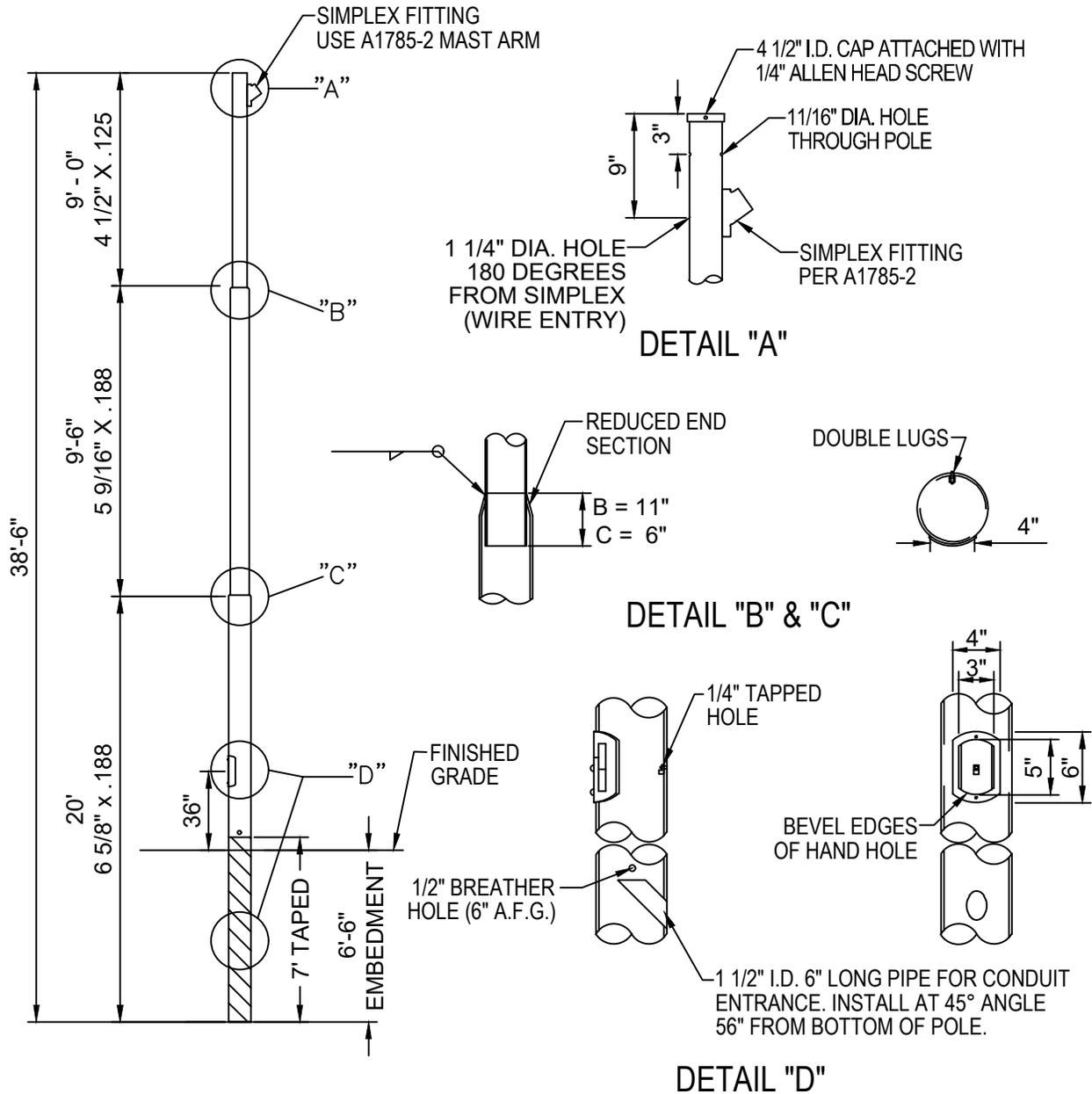


DETAIL NO.
A1784-6

Avondale
STANDARD DETAIL

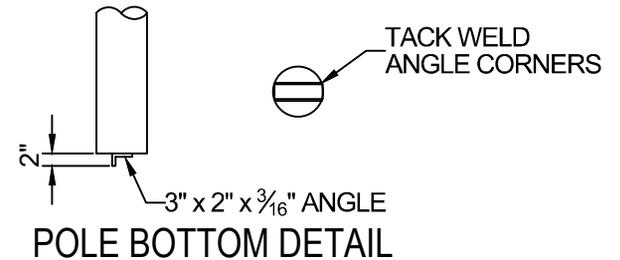
**ARCHITECTURAL SHORT
STREET LIGHT POLE**

APPROVED BY:
K. MOON
DATE:
7-31-2024



NOTES:

1. CONDUIT ENTRANCE TO BE MADE OF 1 1/2" MIN. I.D. PIPE. IT SHALL BE FLUSH WITH FACE OF POLE AND WELDED AT A 45 DEGREE ANGLE. REMOVE ALL BURRS.
2. THE HAND HOLE TO BE 5" X 3" WITH 1 1/2" RADII. THE HAND HOLE COVER TO BE 4" X 6" X 16 GAUGE WITH 2" RADII AND BENT SLIGHTLY SMALLER THAN THE POLE. THE COVER IS TO BE SECURED WITH (2) 1/4" STAINLESS STEEL TAMPER PROOF SCREWS, SUPPLIED BY MANUFACTURER.
3. AFTER FABRICATION, THE POLE SHALL BE SANDBLASTED TO REMOVE ALL LOOSE SCALE, RUST, CORROSION PRODUCTS, GREASE, DIRT, AND OTHER FOREIGN PRODUCTS. CLEAN POLE TO A MINIMUM OF "COMMERCIAL GRADE" SSPC SP-6.
4. AFTER SANDBLASTING THE POLE SHALL BE GALVANIZED PER ASTM A123, LATEST EDITION.
5. AFTER FINISH HAS BEEN APPLIED, THE BOTTOM OF POLE SHALL BE COATED WITH COAL TAR EPOXY, 20 MILS THICK DRY. AFTER EPOXY HAS DRIED CONFORMLY HALF-LAP WRAP POLE WITH 20-MIL TAPE TO 6" ABOVE GRADE LINE. TAPE SHALL BE UNIFORM WITHOUT FOLDS, WRINKLES OR GAPS.
6. ROUND POLES AND MAST ARMS SHALL BE STEEL THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 42,000 PSI PER ASTM 500B.
7. SEE DETAIL A1787 FOR EMBEDMENT.



DETAIL NO.
A1785-1

Avondale
STANDARD DETAIL

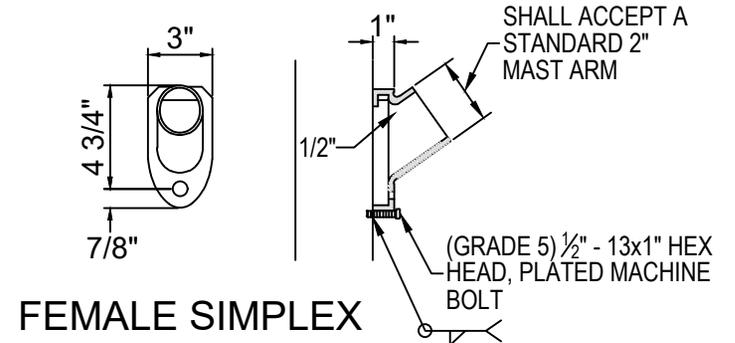
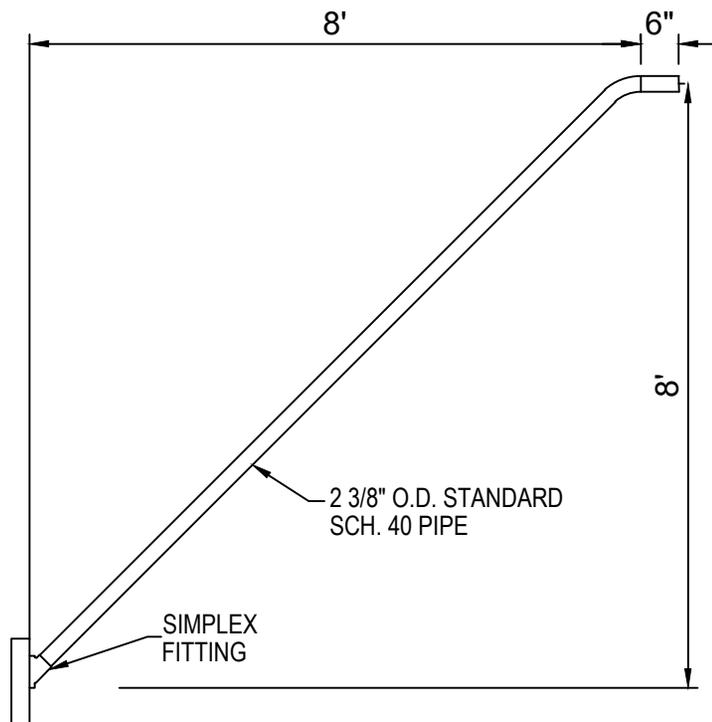
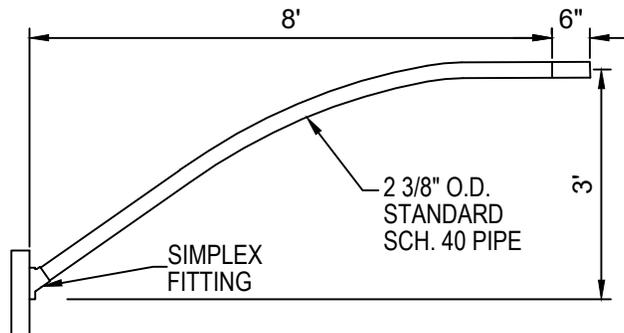
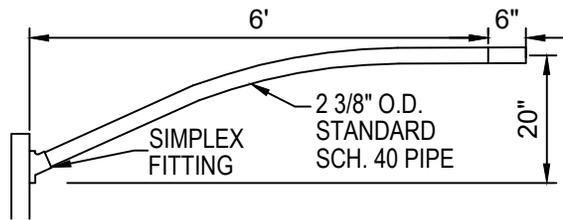
**APS AREA STREET
LIGHT POLE, 38'-6"**

APPROVED BY:

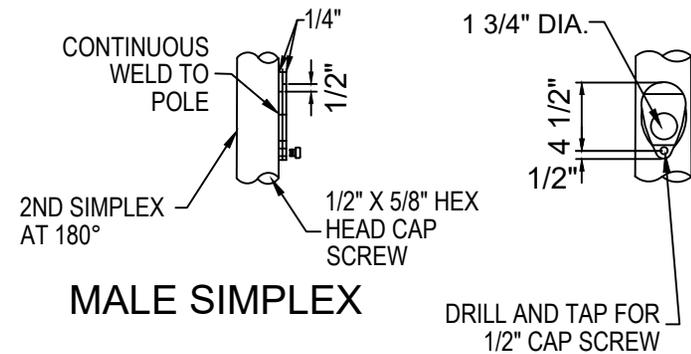
K. MOON

DATE:

7-31-2024



FEMALE SIMPLEX



MALE SIMPLEX

NOTES:

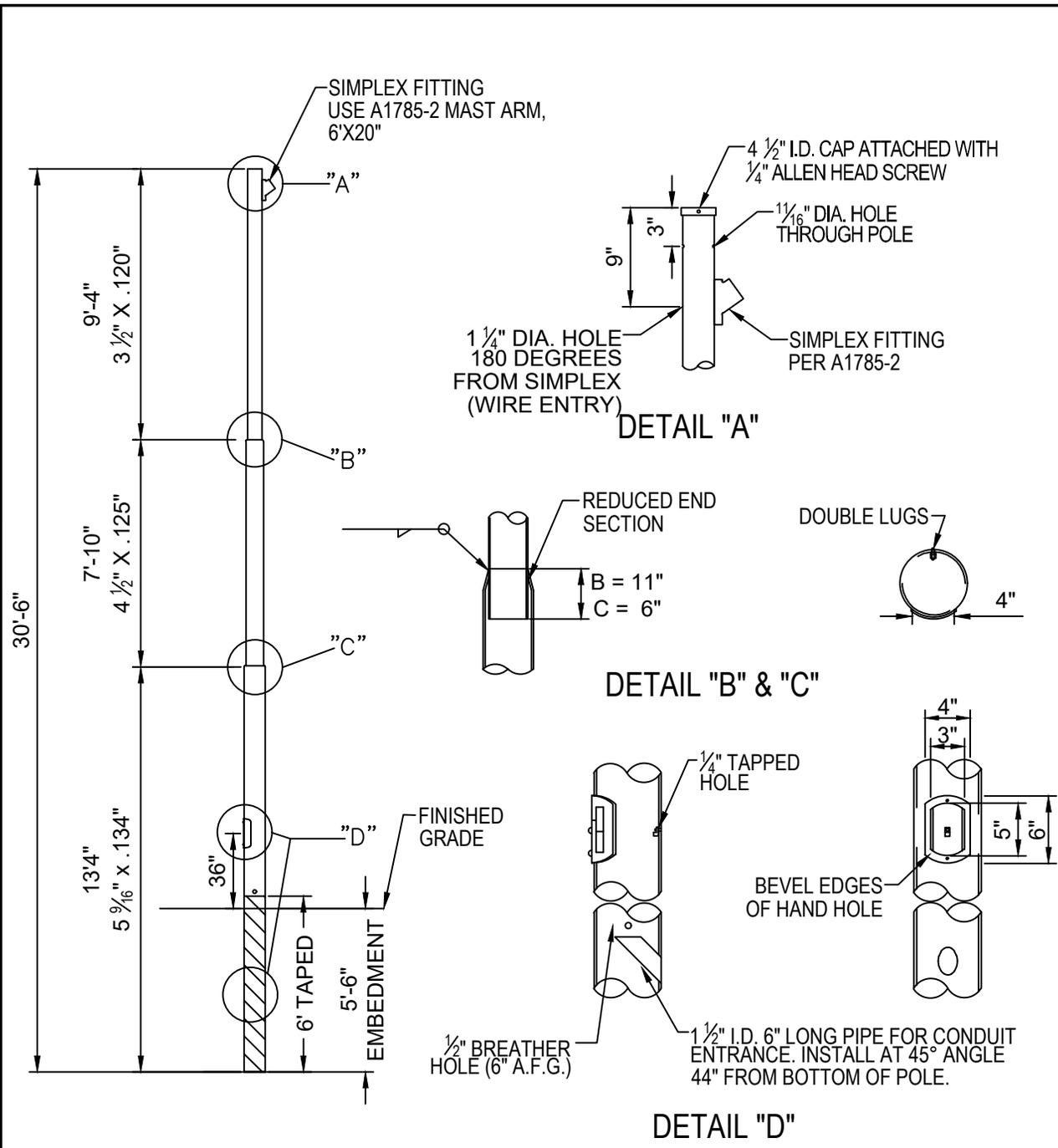
1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGES SHALL BE REMOVED PRIOR TO GALVANIZING.
2. SURFACES TO BE GALVANIZED SHALL BE CLEANED OF ALL RUST, SCALE, FOREIGN MATERIAL, OIL, AND GREASE.
3. FINISH COAT SHALL BE GALVANIZED PER ASTM A-123.
4. 8'X8' & 8'X3' ARMS SHALL BE USED WITH A1785-1. 6'X20" ARM SHALL BE USED WITH A1785-4.
5. APS POLES SHALL BE USED WEST OF AGUA FRIA RIVER.

DETAIL NO.
A1785-2

Avondale
STANDARD DETAIL

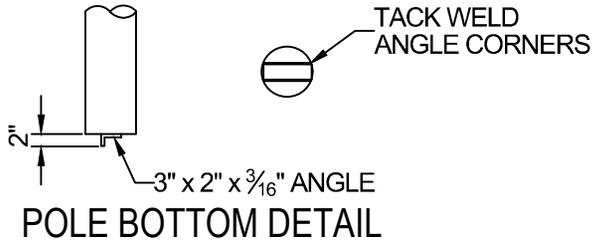
**APS STREET LIGHT
MAST ARM**

APPROVED BY:
K. MOON
DATE:
7-31-2024



NOTES:

1. CONDUIT ENTRANCE TO BE MADE OF 1 1/2" MIN. I.D. PIPE. IT SHALL BE FLUSH WITH FACE OF POLE AND WELDED AT A 45 DEGREE ANGLE. REMOVE ALL BURRS.
2. THE HAND HOLE TO BE 5" X 3" WITH 1 1/2" RADII. THE HAND HOLE COVER TO BE 4" X 6" X 16 GAUGE WITH 2" RADII AND BENT SLIGHTLY SMALLER THAN THE POLE. THE COVER IS TO BE SECURED WITH (2) 1/4" STAINLESS STEEL TAMPER PROOF SCREWS, SUPPLIED BY MANUFACTURER.
3. AFTER FABRICATION, THE POLE SHALL BE SANDBLASTED TO REMOVE ALL LOOSE SCALE, RUST, CORROSION PRODUCTS, GREASE, DIRT, AND OTHER FOREIGN PRODUCTS. CLEAN POLE TO A MINIMUM OF "COMMERCIAL GRADE" SSPC SP-6.
4. AFTER SANDBLASTING THE POLE SHALL BE GALVANIZED PER ASTM A123, LATEST EDITION, ZINC (HOT GALVANIZED) COATING ON THE PRODUCTS FABRICATED FROM ROLLED, PRESSED AND FORGED STEEL, PLATES, BARS AND STRIPS AND APS "GUIDELINES FOR THE GALVANIZING OF TUBULAR TRANSMISSION POLES".
5. AFTER FINISH HAS BEEN APPLIED, THE BOTTOM OF POLE SHALL BE COATED WITH COAL TAR EPOXY, 20 MILS THICK DRY. AFTER EPOXY HAS DRIED CONFORMLY HALF-LAP WRAP POLE WITH 20-MIL TAPE TO 6" ABOVE GRADE LINE. TAPE SHALL BE UNIFORM WITHOUT FOLDS, WRINKLES OR GAPS.
6. ROUND POLES AND MAST ARMS SHALL BE STEEL THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 42,000 PSI PER ASTM 500B.
7. ONLY USE WITH SPECIAL PERMISSION FROM CITY STAFF.
8. SEE DETAIL A1787 FOR EMBEDMENT.

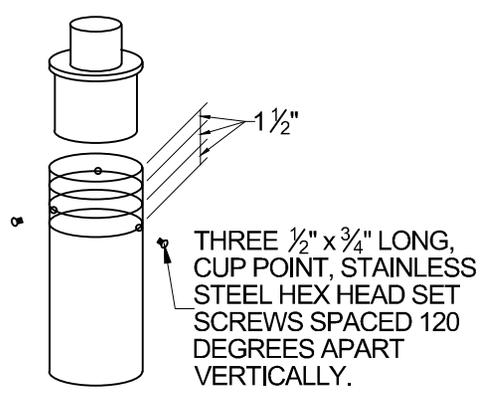
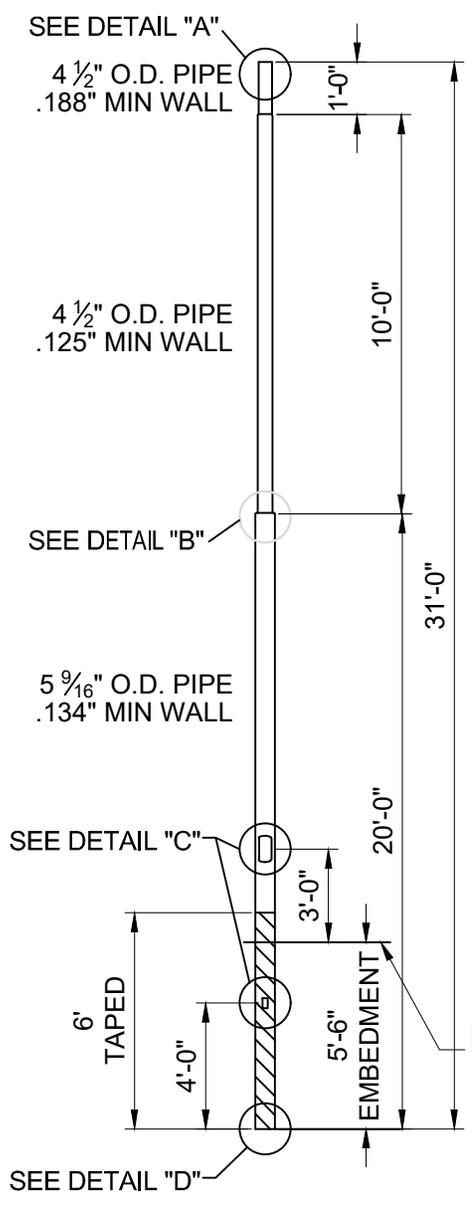


DETAIL NO.
A1785-4

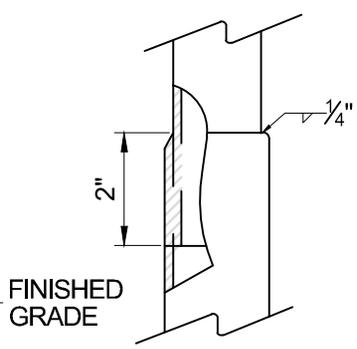
Avondale
STANDARD DETAIL

**APS AREA STREET
LIGHT POLE, 30'-6"**

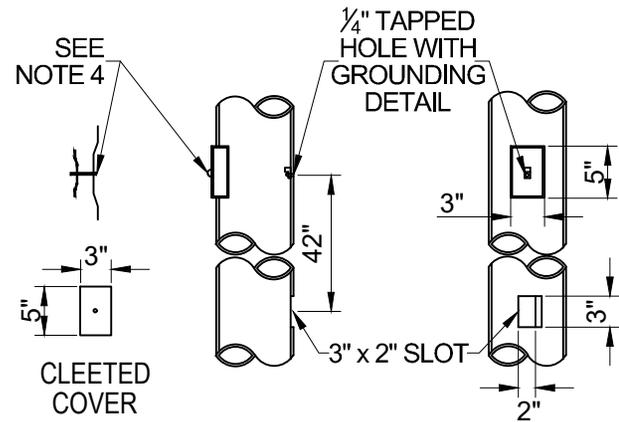
APPROVED BY:
K. MOON
DATE:
7-31-2024



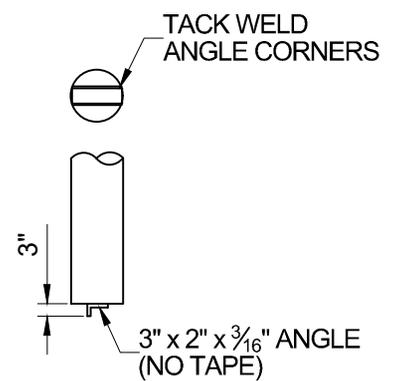
DETAIL "A"
POLE TOP



DETAIL "B"
CRIMP



DETAIL "C"
HANDHOLE



DETAIL "D"
POLE BOTTOM

NOTES:

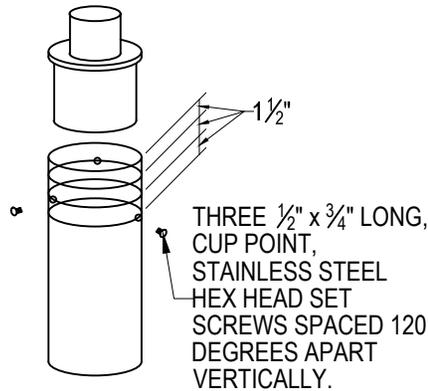
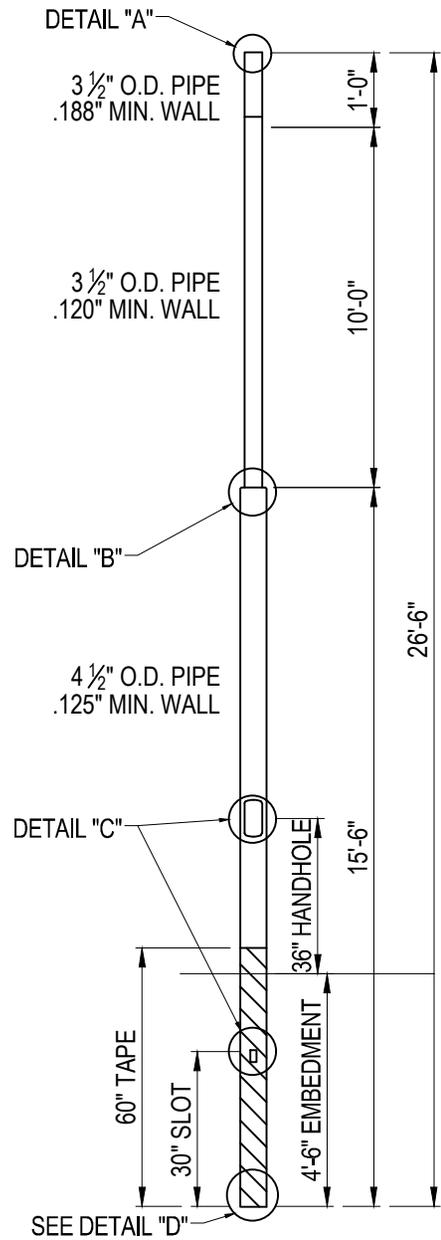
1. ROUND POLES AND MAST ARMS SHALL BE STEEL THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 42,000 PSI PER ASTM 500B.
2. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGES SHALL BE REMOVED.
3. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.
4. HANDHOLE COVER WILL BE SECURED WITH 1/4" x 2" LONG HEX HEAD FULLY THREADED STAINLESS STEEL BOLTS, PER ASTM F593.
5. POLE AND MAST ARM SHALL BE CLEANED TO THE MINIMUM OF "COMMERCIAL GRADE" SSPC SP-6.
6. AFTER BLASTING, THE POLE AND MAST ARM SHALL BE GALVANIZED PER ASTM A123.
7. AFTER FINISH HAS BEEN APPLIED, THE BOTTOM OF POLE SHALL BE COATED WITH COAL TAR EPOXY, 20 MILS THICK DRY. AFTER EPOXY HAS DRIED CONFORMLY HALF-LAP WRAP POLE WITH 20-MIL TAPE TO 6" ABOVE GRADE LINE. TAPE SHALL BE UNIFORM WITHOUT FOLD, WRINKLES OR GAPS.
8. RADIUS ARM POLES SHALL BE USED EAST OF AGUA FRIA RIVER.
9. SEE DETAIL A1787 FOR EMBEDMENT.

DETAIL NO.
A1786-1

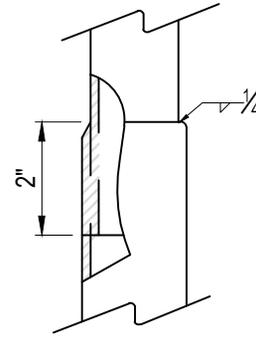
Avondale
STANDARD DETAIL

**SRP STREET LIGHT
POLE (31'-0")**

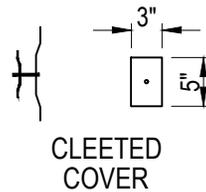
APPROVED BY:
K. MOON
DATE:
7-31-2024



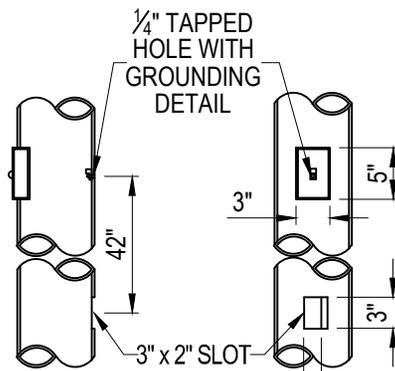
DETAIL "A"
POLE TOP



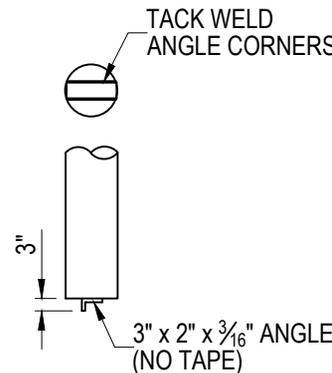
DETAIL "B"
CRIMP



CLEETED
COVER



DETAIL "C"
HANDHOLE



DETAIL "D"
POLE BOTTOM

NOTES:

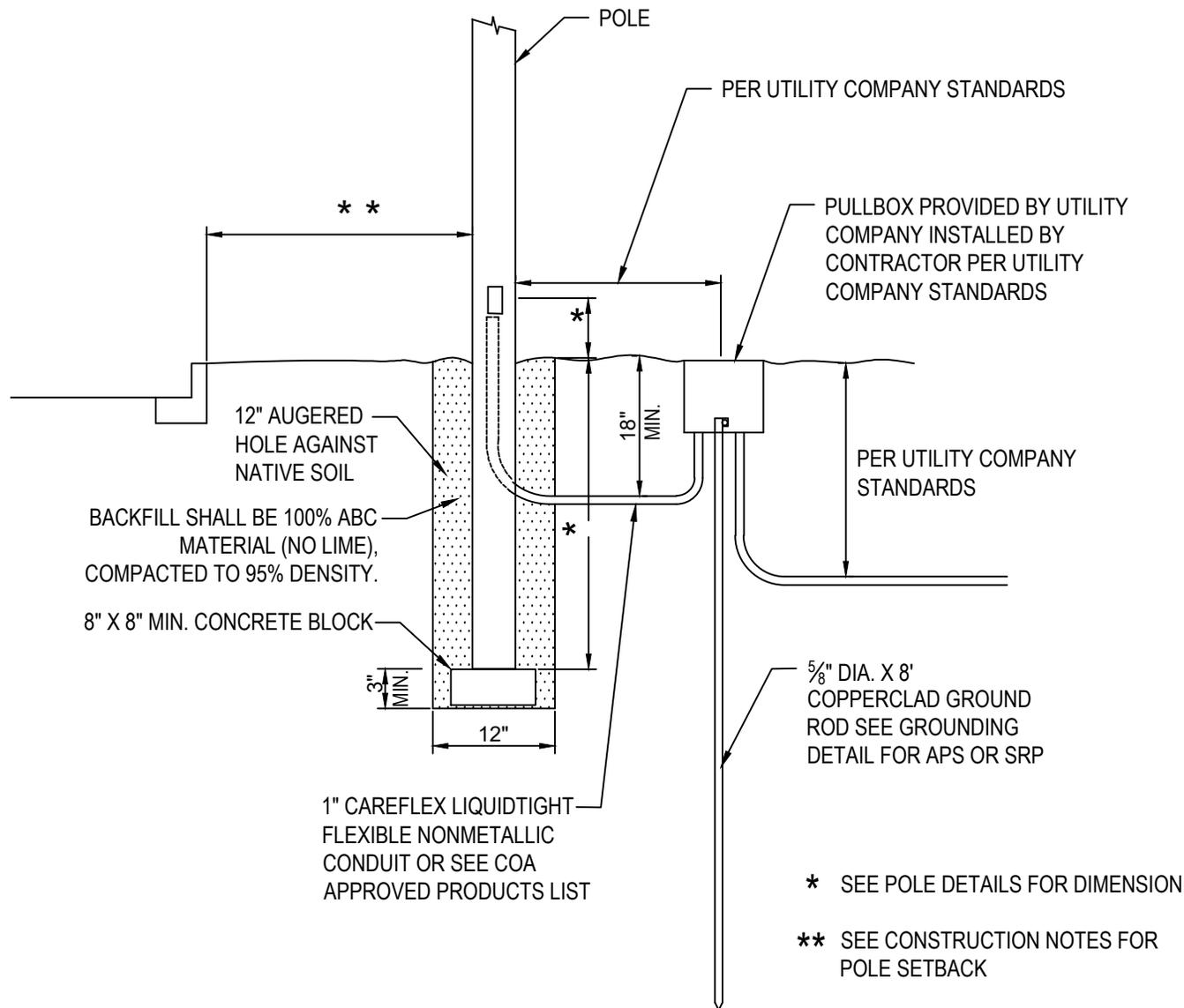
1. ROUND POLES AND MAST ARMS SHALL BE STEEL THAT IS MILL CERTIFIED WITH A MINIMUM YIELD STRENGTH OF 42,000 PSI PER ASTM 500B.
2. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGES SHALL BE REMOVED.
3. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.
4. HANDHOLE COVER WILL BE SECURED WITH 1/4" x 2" LONG HEX HEAD FULLY THREADED STAINLESS STEEL BOLTS, PER ASTM F593.
5. POLE AND MAST ARM SHALL BE CLEANED TO THE MINIMUM OF "COMMERCIAL GRADE" SSPC SP-6.
6. AFTER BLASTING, THE POLE AND MAST ARM SHALL BE GALVANIZED PER ASTM A123
7. AFTER FINISH HAS BEEN APPLIED, THE BOTTOM OF POLE SHALL BE COATED WITH COAL TAR EPOXY, 20 MILS THICK DRY. AFTER EPOXY HAS DRIED CONFORMLY HALF-LAP WRAP POLE WITH 20-MIL TAPE TO 6" ABOVE GRADE LINE. TAPE SHALL BE UNIFORM WITHOUT FOLD, WRINKLES OR GAPS.
8. RADIUS ARM POLES SHALL BE USED EAST OF AGUA FRIA RIVER.
9. SEE DETAIL A1787 FOR EMBEDMENT.

DETAIL NO.
A1786-3

Avondale
STANDARD DETAIL

**SRP STREET LIGHT
POLE (26'-6")**

APPROVED BY:
K. MOON
DATE:
7-31-2024



DETAIL NO.

A1787

Avondale
STANDARD DETAIL

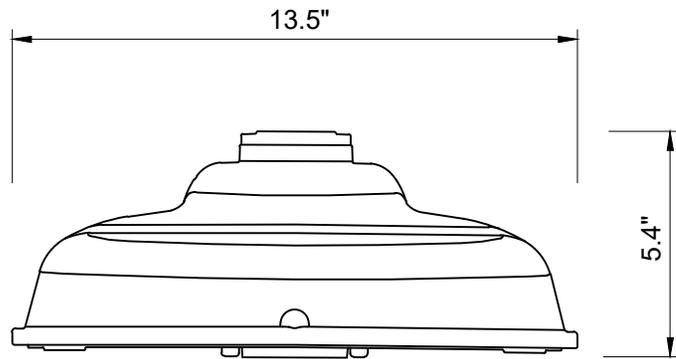
**STREET LIGHT EMBEDMENT
DETAIL**

APPROVED BY:

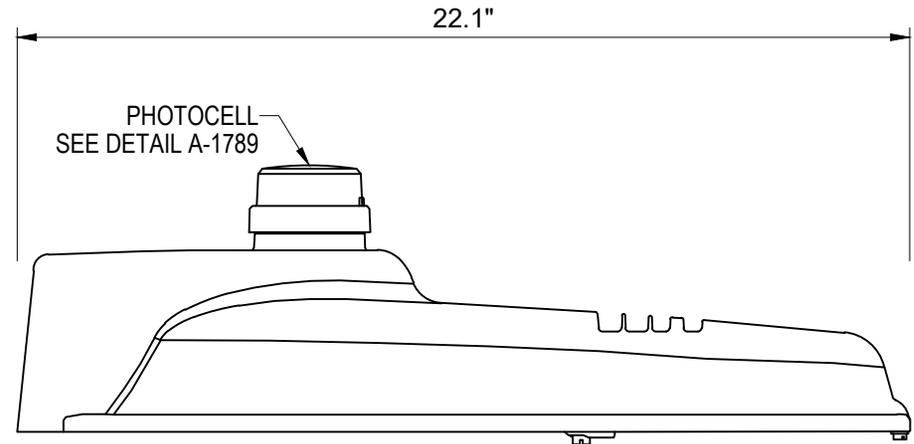
K. MOON

DATE:

7-31-2024



FRONT



SIDE

NOTES:

1. HOUSING SHALL BE FORMED ALUMINUM ON UPPER PORTION OF UNIT. DOOR FRAME TO BE MANUFACTURED OF EXTRUDED ALUMINUM WITH QUICK RELEASE LATCH.
2. EXTERNAL FINISH SHALL BE POWDER COAT. COLOR SHALL BE DARK BRONZE OR GRAY.
3. ALL FIXTURES SHALL BE SUPPLIED WITH 7-PIN PHOTOCELL SOCKET.

APPROVED MANUFACTURERS ARE:

*GE CURRENT
AEL AUTOBAHN*

STREET TYPE	LUMEN DESIGNATION	NOMINAL LUMENS	MAX BUG RATING	CCT
LOCAL	4L	4500±10%	B1-U0-G1	3000K±300
COLLECTOR	6L	6500±10%	B1-U0-G2	3000K±300
COLLECTOR	11L	11,000±6%	B2-U0-G2	4000K±300
ARTERIAL	15L	15,500±6%	B2-U0-G3	4000K±300

DETAIL NO.

A1788

Avondale
STANDARD DETAIL

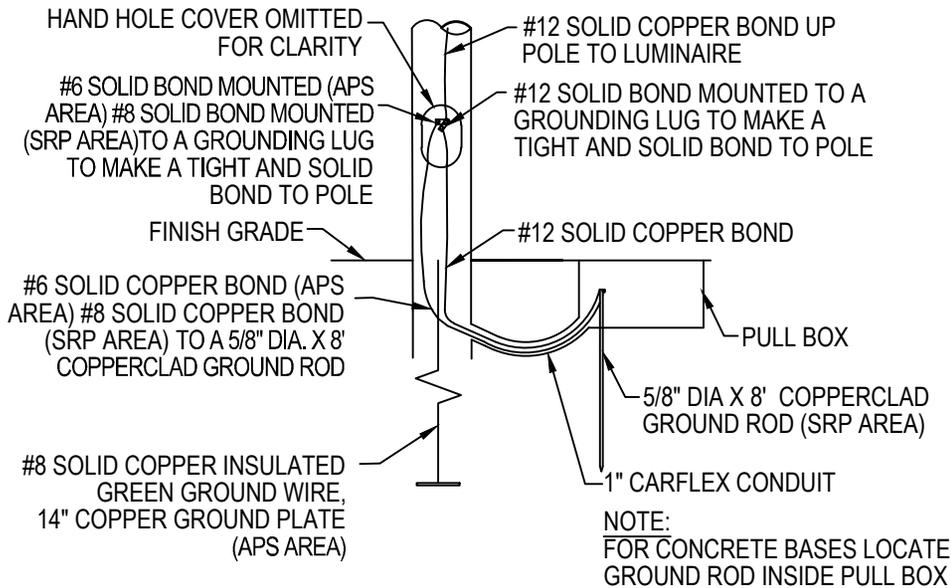
STREET LIGHT FIXTURE

APPROVED BY:

K. MOON

DATE:

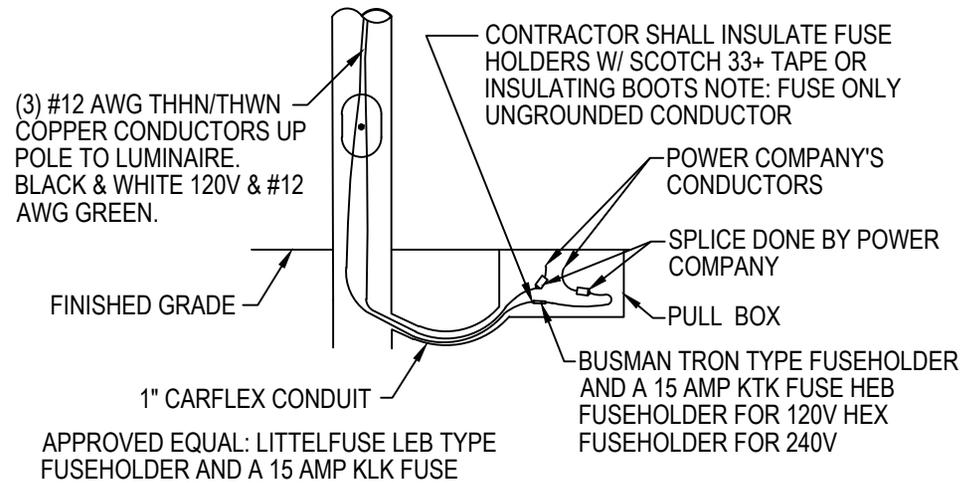
7-31-2024



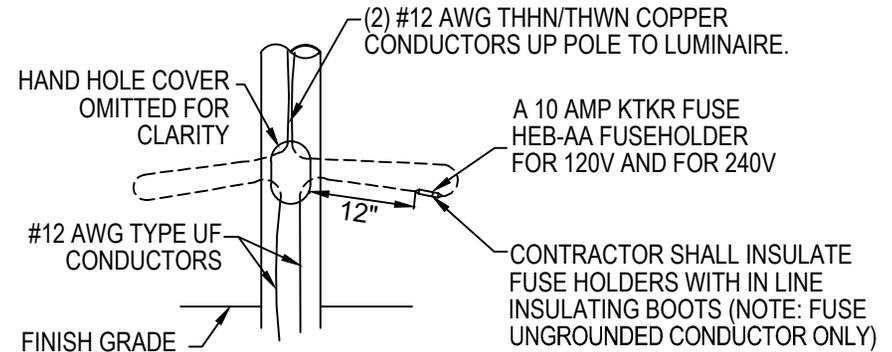
POLE GROUNDING DETAIL

NOTES:

1. ALL SPLICES SHALL BE DONE USING A BLACKBURN WR-7, WR-9, WR-189, OR WR-279 H TYPE CRIMP CONNECTOR. CRIMPING SHALL BE DONE USING A BURNDY TOOL NO. OS-50 WITH 5/8" DIE SHALL BE USED TO CRIMP THE WR-7 WR-9. A BURNDY TOOL NO. MD6-8 WITH O DIE SHALL BE USED TO CRIMP THE WR-189. A BURNDY TOOL NO. MD6-8 WITH D3 DIE SHALL BE USED TO CRIMP THE WR-279.
2. ALL POLES (APS AREA) SHALL BE WIRED USING TWO (2) #12 AWG TYPE THHN/THWN SOLID COPPER CONDUCTORS, 600 VOLT, NEC APPROVED AND ONE (1) #12 SOLID BARE COPPER BOND WIRE. WIRES SHALL RUN FROM THE LUMINAIRE TO A MINIMUM OF TWELVE (12) INCHES BELOW POLE HAND HOLE, FOR TERMINATION.
3. ALL POLES (SRP AREA) SHALL BE WIRED USING TWO (2) #12 AWG TYPE THHN/THWN SOLID COPPER CONDUCTORS, 600 VOLT, NEC APPROVED AND ONE (1) #12 SOLID BARE OR GREEN COPPER BOND WIRE. BOND WIRE SHALL RUN FROM THE LUMINAIRE TO A MINIMUM OF TWELVE (12) INCHES BELOW POLE HAND HOLE, FOR TERMINATION. CONDUCTORS SHALL RUN FROM LUMINAIRE TO PULL BOX.
4. ALL STREETLIGHT CONDUCTORS AND BOND WIRES SHALL BE COPPER. CONDUCTORS FROM PULL BOX TO HAND HOLE SHALL BE AWG TYPE UF INSULATION. CONDUCTORS FROM HAND HOLE TO LUMINAIRE SHALL BE AWG TYPE THHN/THWN. ALL CONDUCTORS SHALL BE SOLID AND ALL BOND WIRES SHALL BE SOLID.



POLE FUSING DETAIL (SRP)



POLE FUSING DETAIL (APS)

NOTE: IN ADDITION TO FUSING BEHIND HAND HOLE, INSTALL 15 AMP KTK FUSE(S) IN ADJACENT PULL BOX.

APPROVED MANUFACTURER: LITTELFUSE LEB TYPE FUSEHOLDER AND A 10 AMP KTKR FUSE, OR SEE COA APPROVED PRODUCTS LIST.

DETAIL NO.

A1791

Avondale
STANDARD DETAIL

**FUSING AND GROUNDING
DETAILS**

APPROVED BY:

K. MOON

DATE:

7-31-2024

SPECIFICATONS:

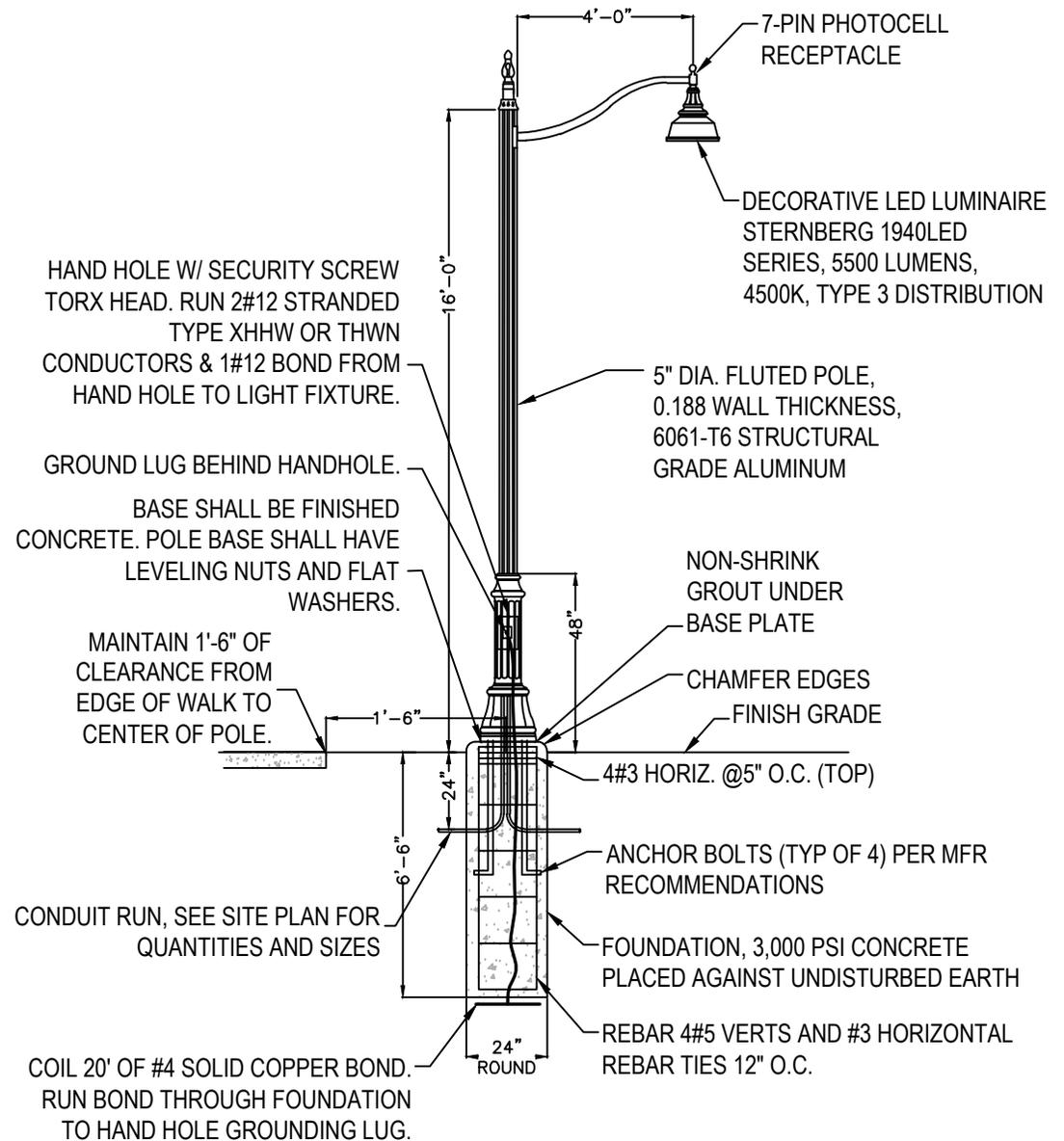
DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS

ANCHOR BOLTS: ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM A153.

FINISH: VERDE GREEN 2-2TEP, HAND-APPLIED APPLICATION FINISH OVER 0.15 OF NON-CHROME POLYMER SEALER AND 3.5 TO 5 MILS OF TOP COAT POLYESTER POWDER.

NOTES:

1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGE SHALL BE REMOVED PRIOR TO PAINTING.
2. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.



DETAIL NO.
A1792-1

Avondale
STANDARD DETAIL

**DECORATIVE PEDESTRIAN
LIGHT POLE**

APPROVED BY:
K. MOON
DATE:
7-31-2024

SPECIFICATONS:

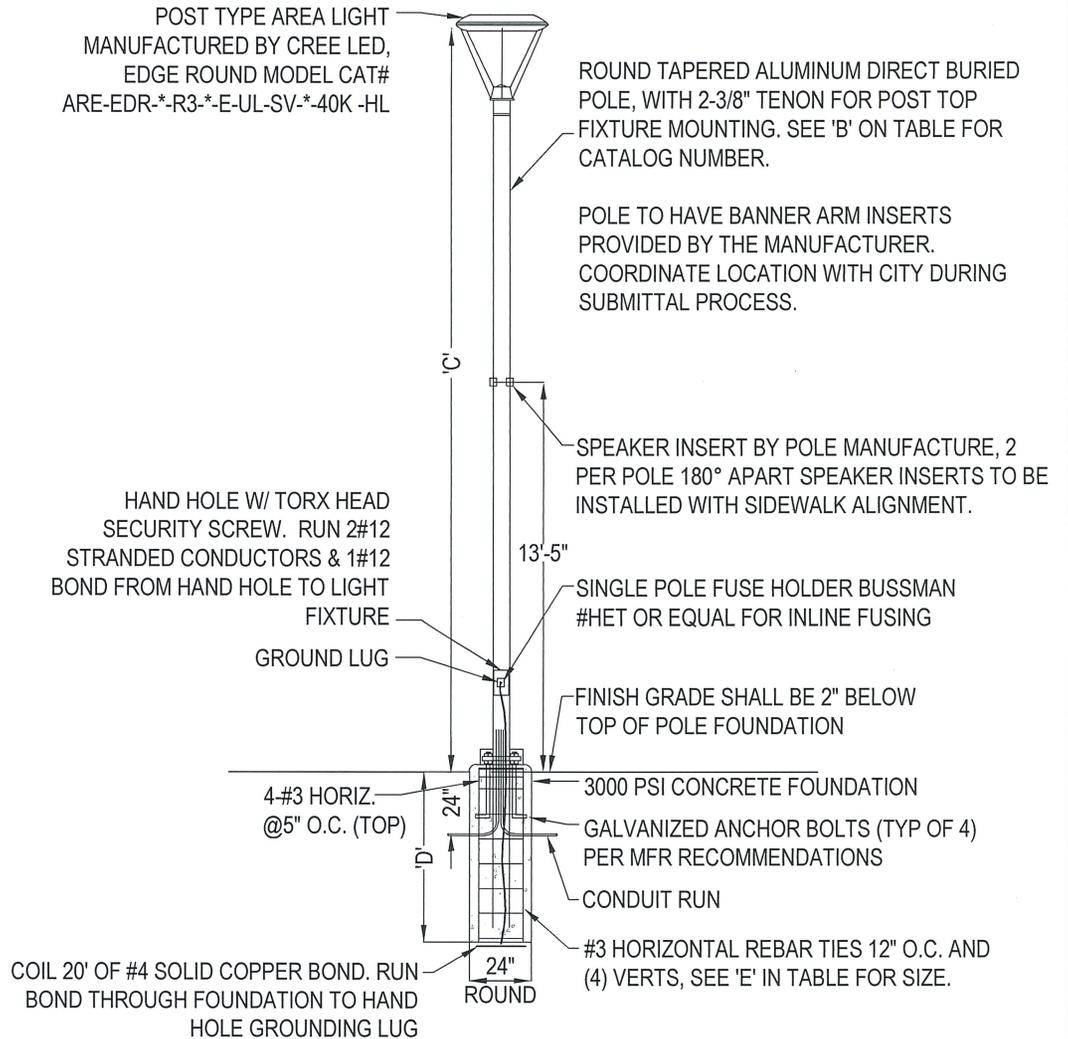
DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS

ANCHOR BOLTS: ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM A153.

FINISH: THE POLE FINISH TO MATCH FIXTURE. CONTRACTOR TO PROVIDE COLOR SAMPLES OF POLE FINISH AND FIXTURE FINISH TO ENGINEER WITH SUBMITTALS.

NOTES:

1. ALL WELDS SHALL BE GROUND SMOOTH, AND ALL BURRS AND SHARP EDGE SHALL BE REMOVED PRIOR TO PAINTING.
2. ALL HARDWARE IS TO BE FURNISHED WITH POLE. HARDWARE SHALL BE CORROSION RESISTANT.



POLE TYPE	LUMENS	DISTRIBUTION	POLE CATALOG # - 'B'	MOUNTING HEIGHT - 'C'	FOUNDATION DEPTH - 'D'	REBAR VERTS - 'E'
STREET LIGHT 'A'	10500 (±6%)	TYPE 3	2908-45-80-5-T-E-P2-*	30'	7'-0"	#6
STREET LIGHT 'B'	7000 (±10%)	TYPE 3	2908-45-80-5-T-E-P2-*	30'	7'-0"	#6
PEDESTRIAN LIGHT	5000 (±10%)	TYPE 2	1308-30-50-4-T-E-P2-*	15'	5'-4"	#4
PARK LIGHT	3000 (±10%)	TYPE 5	1308-30-50-4-T-E-P2-*	15'	5'-4"	#4

DETAIL NO.
A1793-1

Avondale
STANDARD DETAIL

POST TOP DECORATIVE POLE

APPROVED BY:
Aric M. Stewart
DATE:
11-03-2022

CITY OF AVONDALE

GENERAL ENGINEERING REQUIREMENTS

AMENDMENT

October 31, 2024

The City of Avondale General Engineering Requirements 2018, and Avondale Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction 2018 are hereby amended:

1. Avondale Supplemental to MAG Uniform Standard Specifications and Details for Public Works Construction 2018

a. 1200 Series Street Information

The 1200 Series of Details is hereby amended to include new details for Traffic Calming, in Exhibit 'B', as attached, and summarized as follows:

- i. Standard Detail A1215-1 Traffic Calming General Notes
- ii. Standard Detail A1215-2 Traffic Calming Choker
- iii. Standard Detail A1215-3 Traffic Calming Lateral Shift – Single
- iv. Standard Detail A1215-4 Traffic Calming Lateral Shift – Double
- v. Standard Detail A1215-5 Traffic Calming Lateral Shift – w/ Median
- vi. Standard Detail A1215-6 Traffic Calming Bi-Directional Choker

If a conflict or ambiguity arises in documents, the following order prevails: (1) this amendment, (2) previous amendments from most recent to oldest, (3) the Avondale General Engineering Requirements 2018, (4) the Avondale Supplement to MAG Uniform Standard Specifications and Details, and (5) related documents.

Documents are available online at www.avondaleaz.gov under the Engineering Department.

A handwritten signature in purple ink, appearing to read "K Moon".

Kimberly J. Moon, P.E.
Director of Engineering/City Engineer

KM/bec

Enclosures:

- Exhibit 'A' Standard Details A1215-1 through A1215-6

Exhibit 'A'

TRAFFIC CALMING DEVICES

TYPES

- Choker
- Bi-directional choker
- Lateral shift

A choker, bi-directional choker, and a lateral shift are traffic calming devices designed to reduce vehicle speeds by narrowing the width of the vehicle travel lanes through installation of a raised island(s) located in the roadway. The raised islands are detached from the curb-line to allow for drainage. They hinder the ability for the motorist to drive in a straight line by creating a horizontal shift in the roadway. This shift forces a motorist to slow the vehicle in order to comfortably navigate around it. Traffic calming devices shall not be installed on a roadway with a posted speed limit of more than 30 MPH or traffic volumes greater than 10,000 vpd. The traffic calming device shall have a 30" x 30" TRAFFIC CALMING warning sign placed 100' upstream of the beginning of taper. If a series of traffic calming devices exists in close proximity, an advanced warning sign may be eliminated on all but the first devices in the series. Traffic calming devices shall be installed in well-lit areas and installed adjacent to an existing overhead streetlight when possible. Raised median islands may be installed with either hardscape or landscape treatment. The traffic calming devices shall not impede access to existing driveways or crosswalks. The traffic calming devices shall be located mid-block, at least 150' from of an intersection, at least 200' from a stop sign (approaching the stop sign), and at least 660' from a traffic signal. Traffic calming devices are most effective in a series of two or more, spaced 300' - 500' apart.

DETAIL NO.

A1215-1

Avondale
STANDARD DETAIL

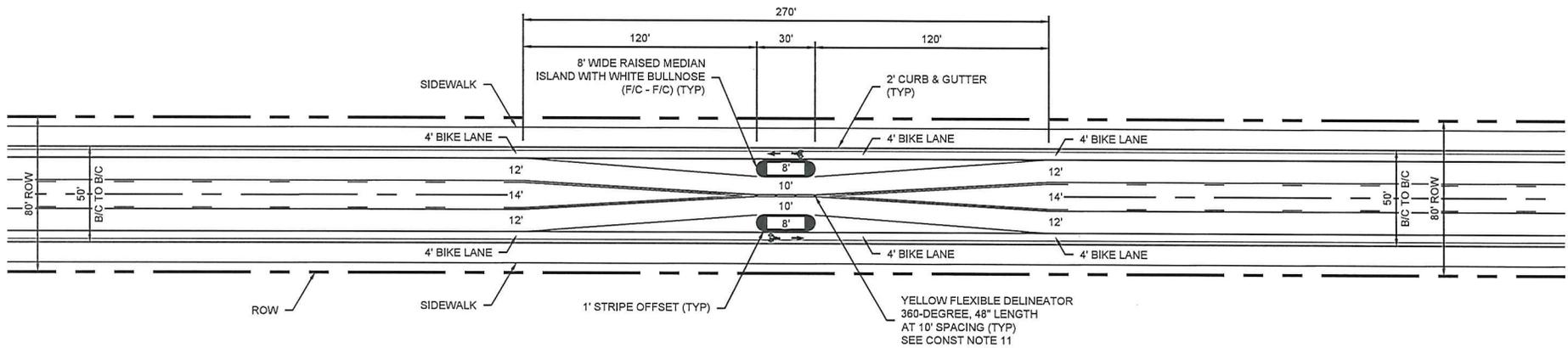
**TRAFFIC CALMING
GENERAL NOTES**

APPROVED BY:

K. MOON

DATE:

10-31-2024



MINOR COLLECTOR

NOTES:

1. TAPER RATES BASED ON 30 MPH POSTED/DESIGN SPEED. ALL DIMENSIONS ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE AND TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. TYPICAL MINOR COLLECTOR STREET SECTION WITH 80' ROW PER COA DETAIL A1102
3. CALMING MEASURE SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, SURVEY MONUMENTS, JUNCTION CHAMBERS, IN CONFLICT WITH DRIVEWAYS, OR ADJACENT TO FIRE HYDRANTS.
4. CONTRACTOR MUST PROVIDE VERIFICATION OF CROSS-SECTION DIMENSIONS.

CONSTRUCTION NOTES:

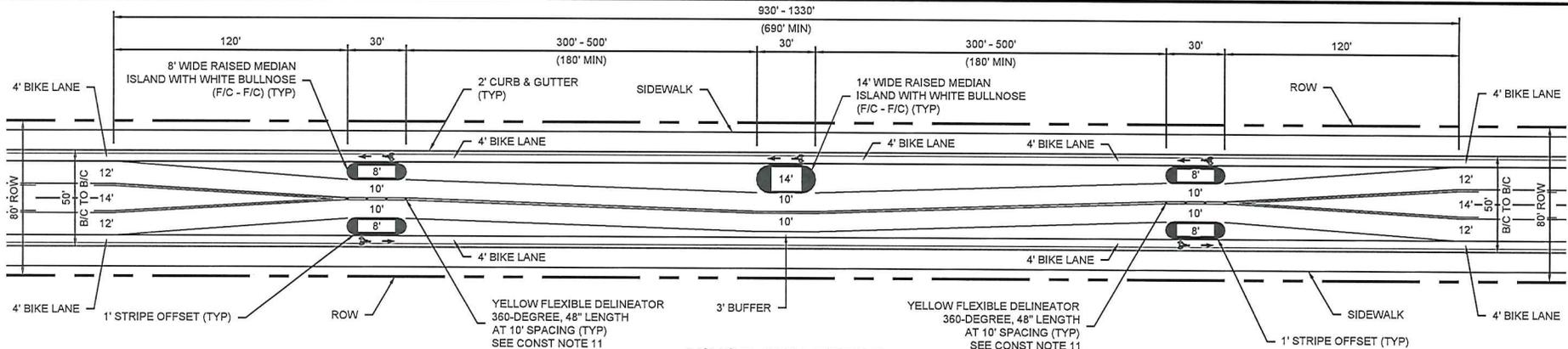
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2. ALL BASE COURSE MATERIAL SHALL CONFORM TO MAG STD SPECIFICATIONS, SECTIONS 310 AND 702.
3. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH MAG STD SPECIFICATIONS, SECTION 301.
4. ALL LANE WIDTHS AND MEDIAN WIDTHS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR OR DESIGNER BASED ON THE TOTAL CROSS SECTION DIMENSIONS AND APPROVED BY THE CITY ENGINEER. ISLAND MEDIAN NOSE RADIUS SHALL MATCH THE WIDTH OF THE MEDIAN.
5. ALL ISLAND CURBS SHALL BE CONSTRUCTED PER MAG STD DETAIL 222, GUTTER TYPE 'A' UNLESS NOTED OTHERWISE.
6. ALL ISLAND MEDIAN NOSE TRANSITIONS SHALL BE Poured MONOLITHICALLY PER COA STD DET A1221 AND PAINTED WHITE UNLESS NOTED OTHERWISE.
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12. ALL LAYOUT AND FORMS TO BE INSPECTED BY CITY PRIOR TO INSTALL.

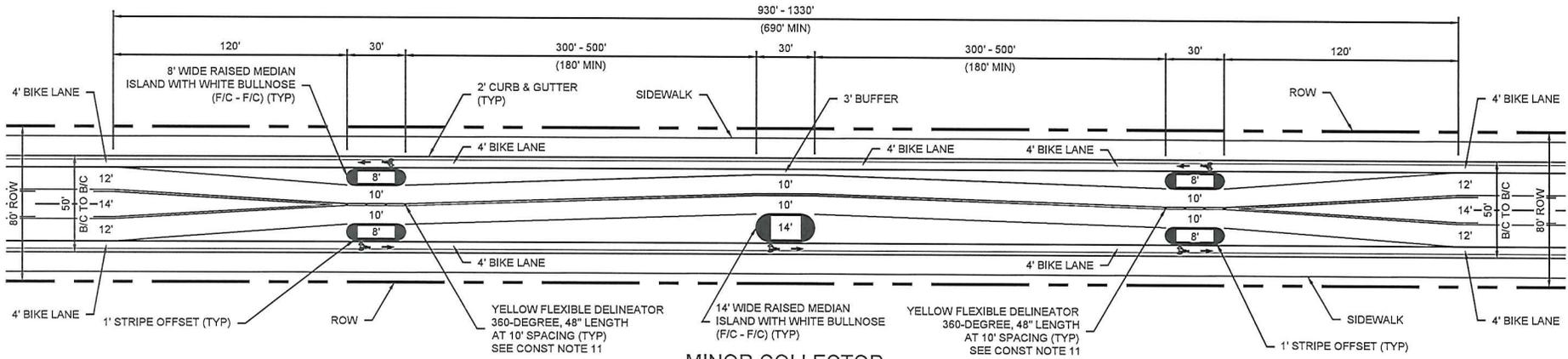
DETAIL NO.
A1215-2
Avondale
 STANDARD DETAIL

**TRAFFIC CALMING
 CHOKER**

APPROVED BY:
 K. MOON
 DATE:
 10-31-2024



MINOR COLLECTOR
OPTION 1



MINOR COLLECTOR
OPTION 2

NOTES:

1. TAPER RATES BASED ON 30 MPH POSTED/DESIGN SPEED. ALL DIMENSIONS ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE AND TO FACE OF CURB UNLESS OTHERWISE NOTED.
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4. CONTRACTOR MUST PROVIDE VERIFICATION OF CROSS-SECTION DIMENSIONS.

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6. ALL ISLAND MEDIAN NOSE TRANSITIONS SHALL BE POURED MONOLITHICALLY PER COA STD DET A1221 AND PAINTED WHITE UNLESS NOTED OTHERWISE.
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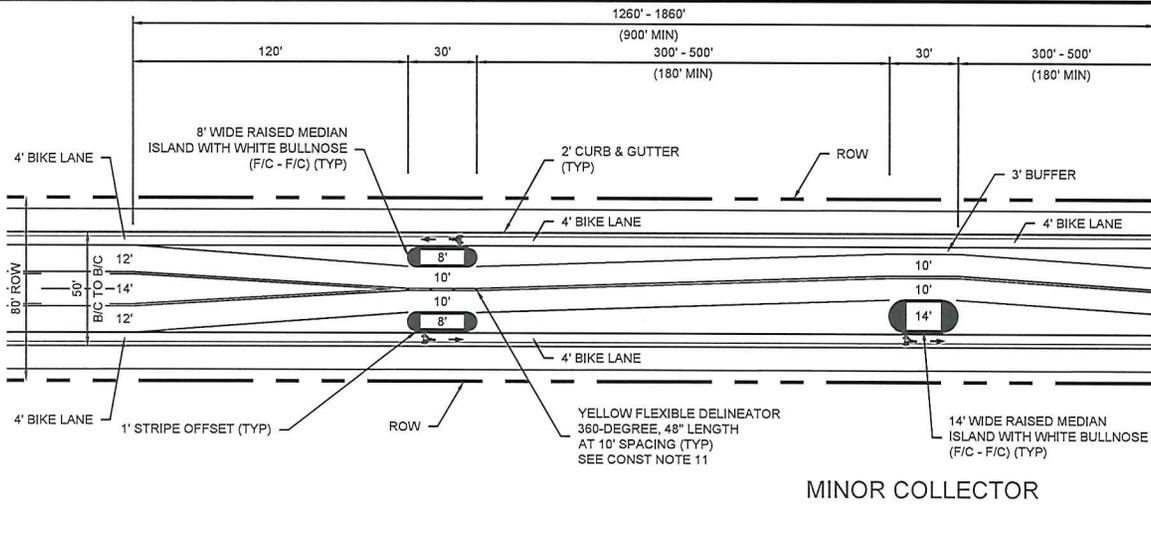
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12. ALL LAYOUT AND FORMS TO BE INSPECTED BY CITY PRIOR TO INSTALL.

DETAIL NO.
A1215-3

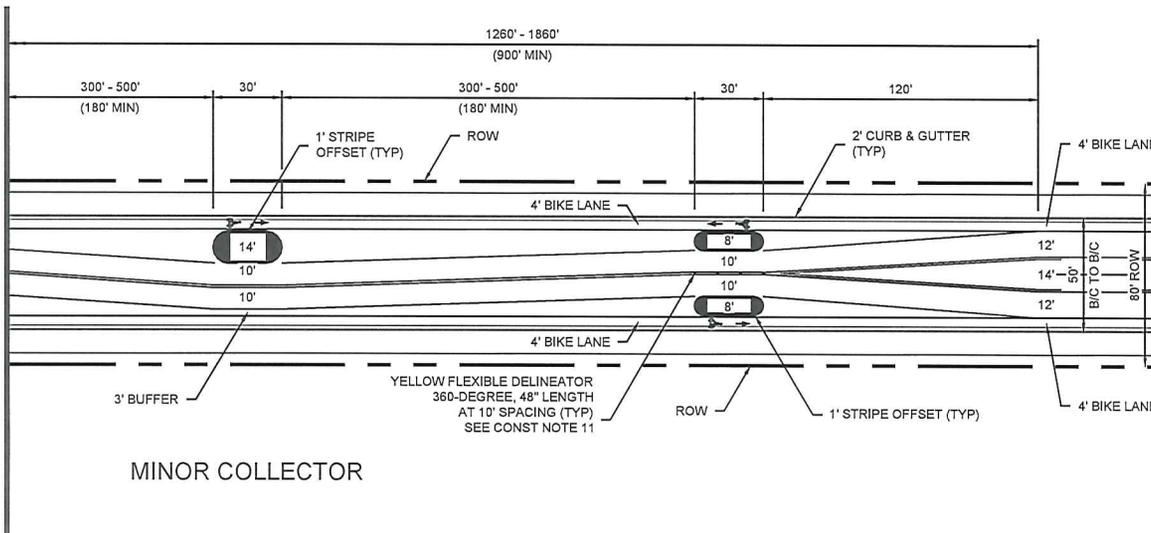
Avondale
STANDARD DETAIL

**TRAFFIC CALMING
LATERAL SHIFT - SINGLE**

APPROVED BY:
K. MOON
DATE:
10-31-2024



MATCH LINE - SEE BELOW



MATCH LINE - SEE ABOVE

CONSTRUCTION NOTES:

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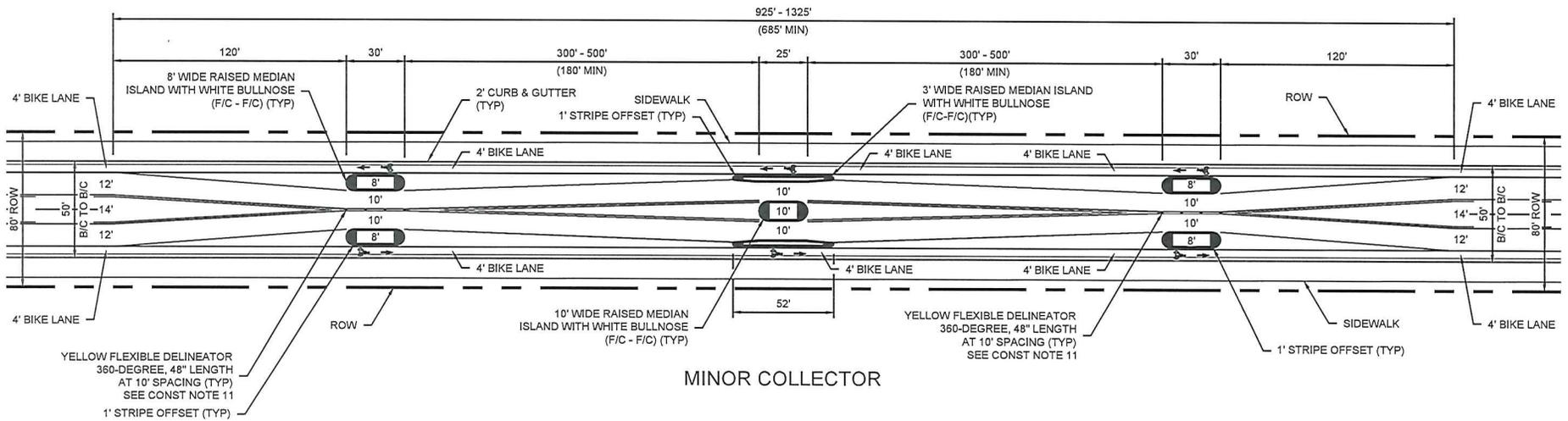
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3. CALMING MEASURE SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, SURVEY MONUMENTS, JUNCTION CHAMBERS, IN CONFLICT WITH DRIVEWAYS, OR ADJACENT TO FIRE HYDRANTS.
4. CONTRACTOR MUST PROVIDE VERIFICATION OF CROSS-SECTION DIMENSIONS.

DETAIL NO.
A1215-4

Avondale
STANDARD DETAIL

**TRAFFIC CALMING
LATERAL SHIFT - DOUBLE**

APPROVED BY:
K. MOON
DATE:
10-31-2024



NOTES:

1. TAPER RATES BASED ON 30 MPH POSTED/DESIGN SPEED. ALL DIMENSIONS ARE FROM CENTER OF STRIPE TO CENTER OF STRIPE AND TO FACE OF CURB UNLESS OTHERWISE NOTED.
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DETAIL NO.

A1215-5

Avondale
STANDARD DETAIL

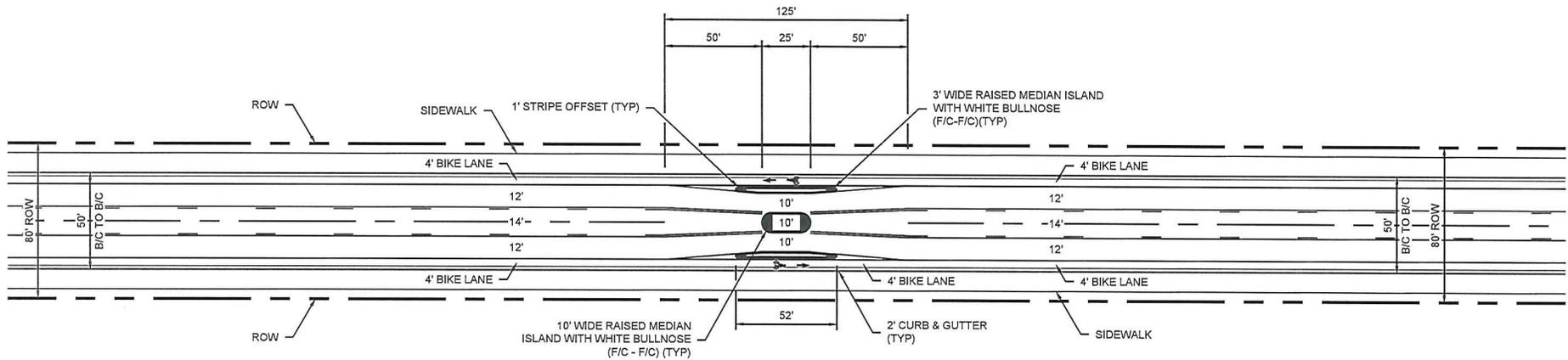
**TRAFFIC CALMING
LATERAL SHIFT - w/ MEDIAN**

APPROVED BY:

K. MOON

DATE:

10-31-2024



MINOR COLLECTOR

NOTES:

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DETAIL NO.
A1215-6

Avondale
STANDARD DETAIL

**TRAFFIC CALMING
BI-DIRECTIONAL CHOKER**

APPROVED BY:
K. MOON
DATE:
10-31-2024