

- LEGEND**
- ① POST - 1 3/4" X 1 3/4" SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING
 - ② ANCHOR - 2" X 2" X 30", SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING

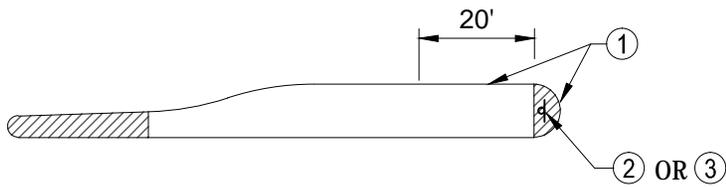
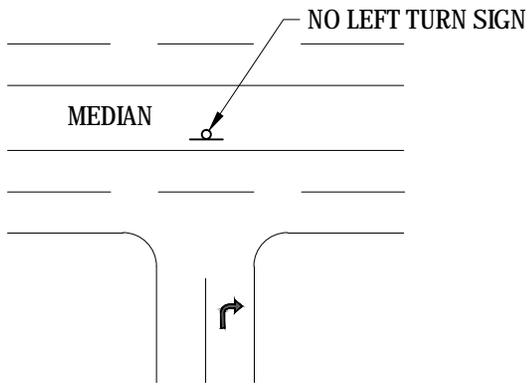
NOTE:
SIGN POST AND ANCHOR PER C.O.A. SUPPLEMENTAL SPEC. SECTION 1001.4

DETAIL NO.
A1600

Avondale
STANDARD DETAIL

SIGN POST INSTALLATION

APPROVED BY: *David S. Jones*
DATE: 8.24.16

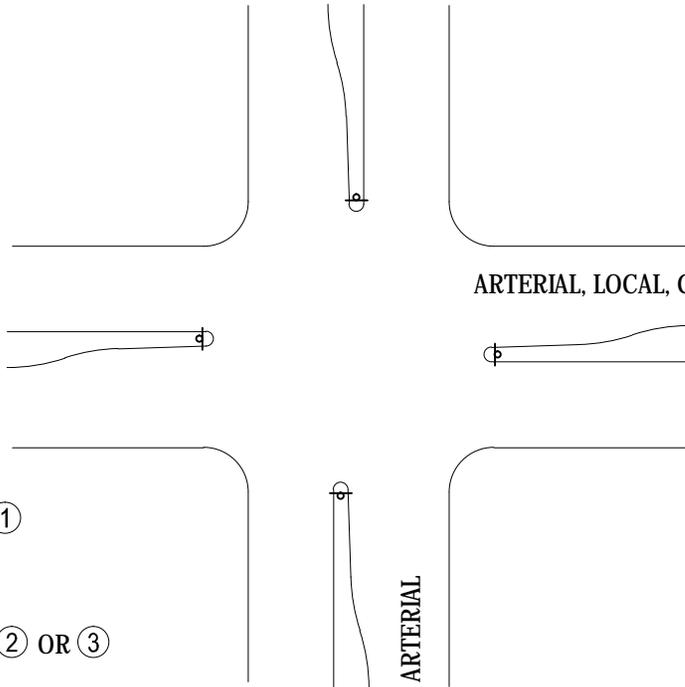


NOTES:

ON THE BACK OF ALL MEDIANS, WHERE TURNING MOTIONS WILL NOT BE MADE ADJACENT TO THE MEDIAN THE FOLLOWING OPTIONS MAY BE IMPLEMENTED.

- ① PAINT BULL NOSE YELLOW AND 20' OF CURB WITH REFLECTIVE BEADS AND RPM'S AND
- ② INSTALL OBJECT MARKER OR
- ③ INSTALL R4-7 (NO OM REQUIRED)

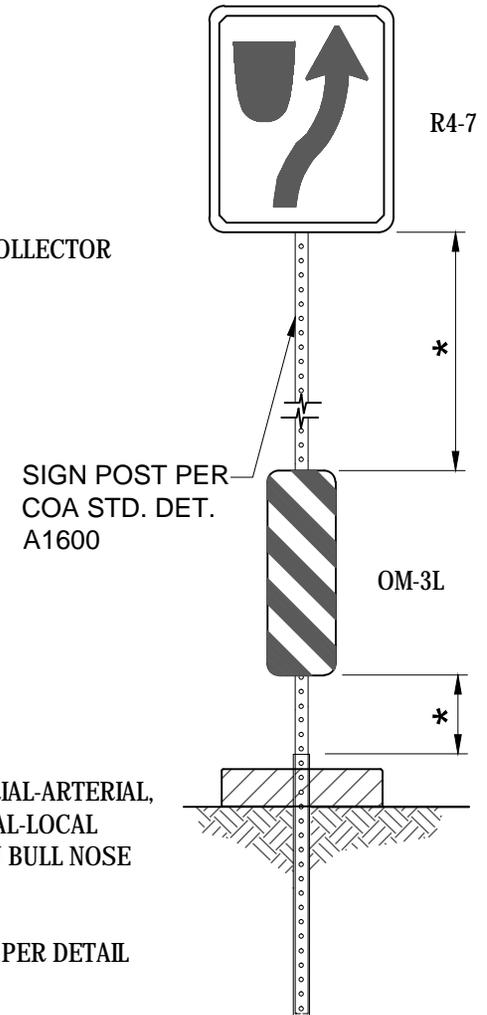
THIS SHOULD ALSO BE USED ON LOCAL / COLLECTOR STREETS WITH MEDIANS INTERNAL TO SUBDIVISIONS.



NOTES:

TO BE INSTALLED AT ALL ARTERIAL-ARTERIAL, ARTERIAL-COLLECTOR, ARTERIAL-LOCAL INTERSECTIONS AT THE MEDIAN BULL NOSE NEAREST THE INTERSECTION.

MEDIANS TO BE CONSTRUCTED PER DETAIL A1220.



* INSTALL SIGNS PER MUTCD

DETAIL NO.

A1601

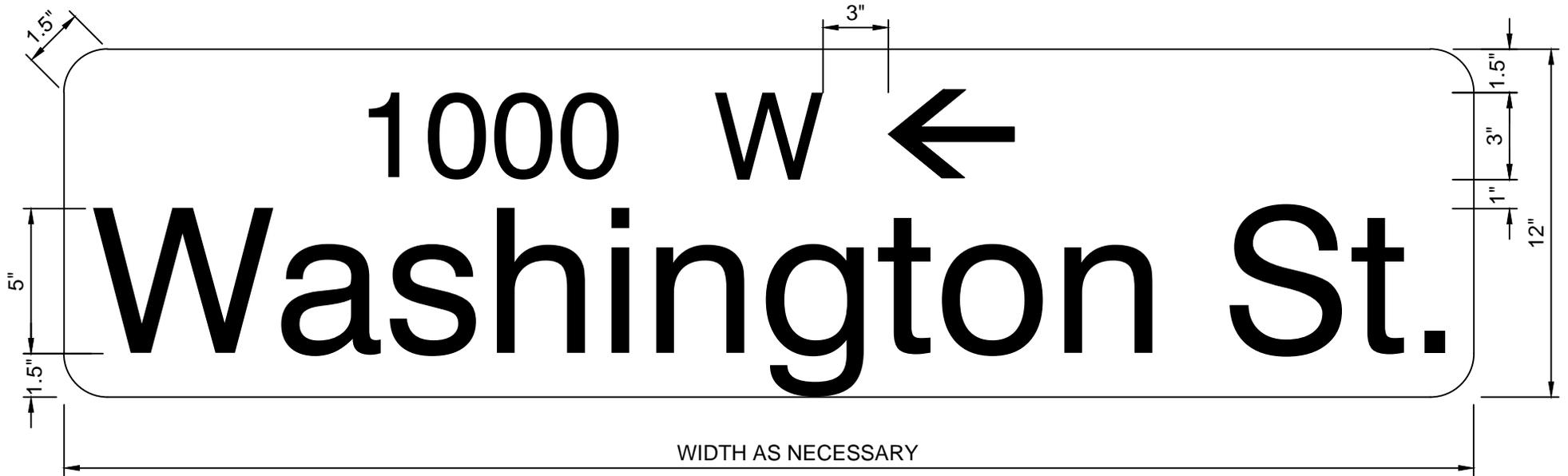
Avondale
STANDARD DETAIL

MEDIAN SIGNAGE

APPROVED BY:

DATE:

David S. Jones
8.24.16



NOTES:

1. STREET NAME SIGNS SHALL BE INSTALLED AT ALL UNSIGNALIZED INTERSECTIONS.
2. BLANK TYPE SHALL BE 0.125 GAUGE TREATED ALUMINUM WITH 1.5" CORNER RADIUS.
3. BACKGROUND SHALL BE GREEN 3M ELECTROCUT FILM.
4. LEGEND SHALL BE WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING.
5. FONT SHALL BE STANDARD T2000 HIGHWAY SERIES B UPPER AND LOWER CASE.
6. MAY USE ON LOCAL TWO-LANE STREETS WITH SPEED LIMITS OF 25 MPH OR LESS.
7. STREET NAME SIGNS IN PRIVATE COMMUNITY ARE SUBJECT TO APPROVAL BY THE CITY ENGINEERING DIVISION.

DETAIL NO. A1602	Avondale STANDARD DETAIL	LOCAL STREET NAME SIGN	APPROVED BY:  DATE: 1.8.2020
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NOTES:

1. STREET NAME SIGNS SHALL BE INSTALLED AT ALL UNSIGNALIZED INTERSECTIONS.
2. BLANK TYPE SHALL BE 0.125 GAUGE TREATED ALUMINUM.
3. LEGEND SHALL BE WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING.
4. BACKGROUND SHALL BE GREEN 3M ELECTROCUT FILM.
5. FONT SHALL BE STANDARD T2000, HIGHWAY B UPPER AND LOWER CASE.
6. STREET NAME SIGNS IN PRIVATE COMMUNITY ARE SUBJECT TO CHANGE AS REQUIRED BY CITY EMERGENCY SERVICES DEPARTMENT.

DETAIL NO.

A1603

Avondale
STANDARD DETAIL

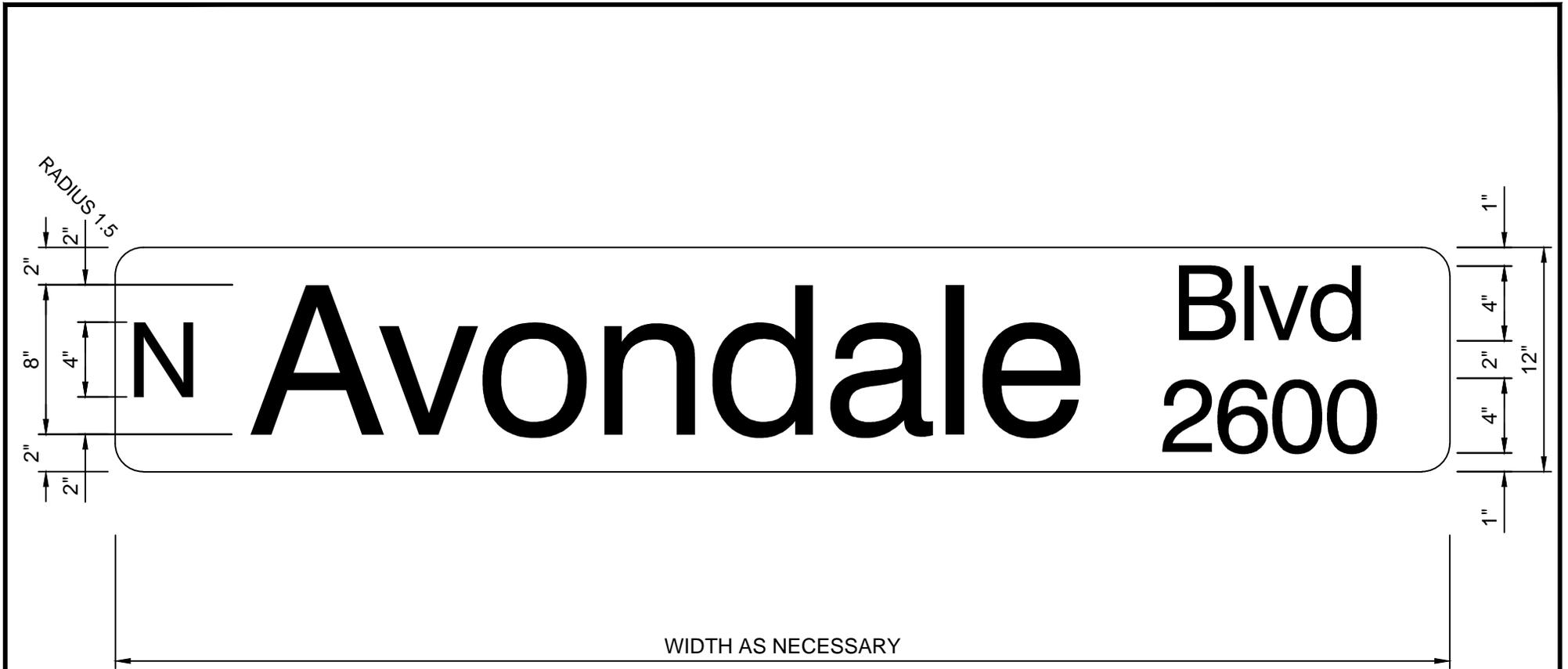
**COLLECTOR STREET
NAME SIGN**

APPROVED BY:

David S. Jones

DATE:

8.24.16

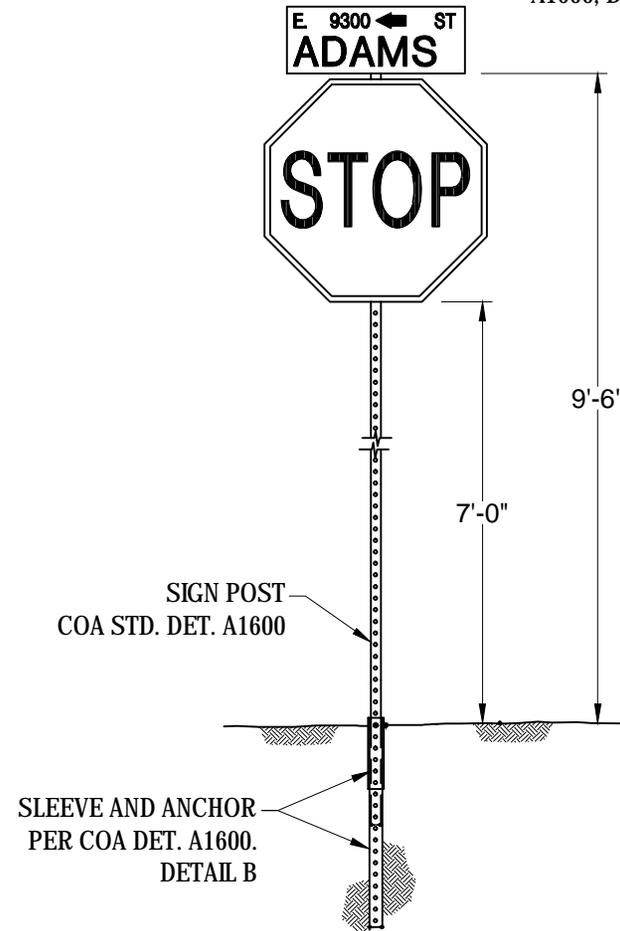


NOTES:

1. STREET NAME SIGNS SHALL BE INSTALLED AT ALL UNSIGNALIZED INTERSECTIONS.
2. BLANK TYPE SHALL BE 0.125 GAUGE TREATED ALUMINUM WITH A 1.5 CORNER RADIUS.
3. BACKGROUND SHALL BE GREEN 3M ELECTROCUT FILM.
4. LEGEND SHALL BE WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING.
5. FONT SHALL BE STANDARD T2000 HIGHWAY SERIES B UPPER AND LOWER CASE.
6. MAY USE ON ARTERIAL AND COLLECTOR TWO-LANE STREETS WITH SPEED LIMITS OF 45 MPH OR LESS.
7. STREET NAME SIGNS IN PRIVATE COMMUNITY ARE SUBJECT TO APPROVAL BY THE CITY ENGINEERING DIVISION.

DETAIL NO. A1604	Avondale STANDARD DETAIL	POST-MOUNT COLLECTOR/ ARTERIAL STREET NAME SIGN	APPROVED BY:  DATE: 1.8.2020
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STREET NAME SIGN PER
COA DETS. A-1602 OR A-1603
SIGN MOUNTING PER COA DET.
A1600, DETAIL A



NOTES:

1. STREET NAME SIGN AND STOP SIGN MOUNTING HEIGHT SHALL BE MEASURED FROM ADJACENT GRADE OF SIDEWALK, TOP OF CURB OR TOP OF NEAREST PAVEMENT.
2. WHEN NO STOP SIGN IS REQUIRED THE STREET NAME SIGN IS MOUNTED AT 9 FEET 6 INCHES.
3. WHEN TWO OR MORE STREET NAME SIGNS ARE MOUNTED ONE ON TOP OF THE OTHER, THE HEIGHT IS MEASURED TO THE BOTTOM SIGN.

DETAIL NO.

A1605

Avondale
STANDARD DETAIL

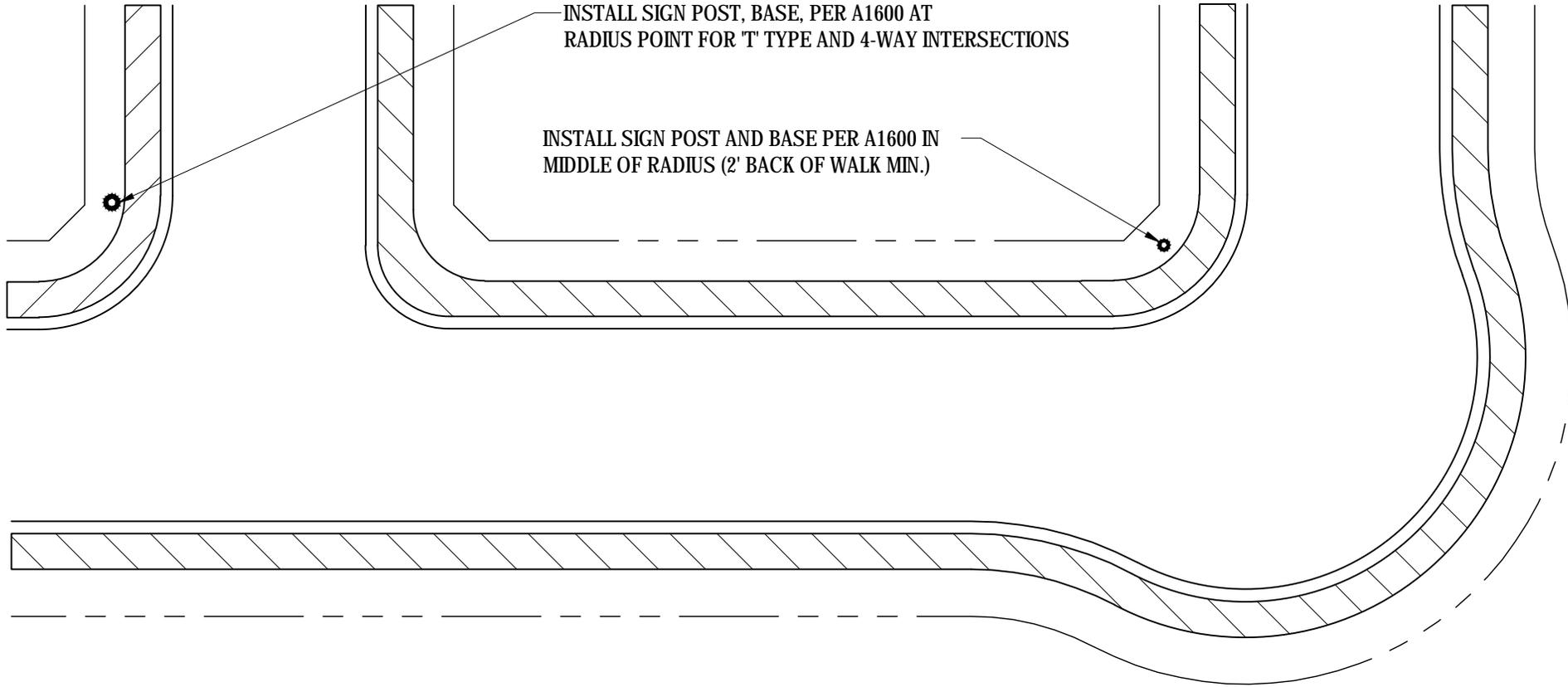
**STREET NAME SIGN
INSTALLATION**

APPROVED BY:

DATE:

Daniel S. Jones

8.24.16



DETAIL NO.

A1606

Avondale
STANDARD DETAIL

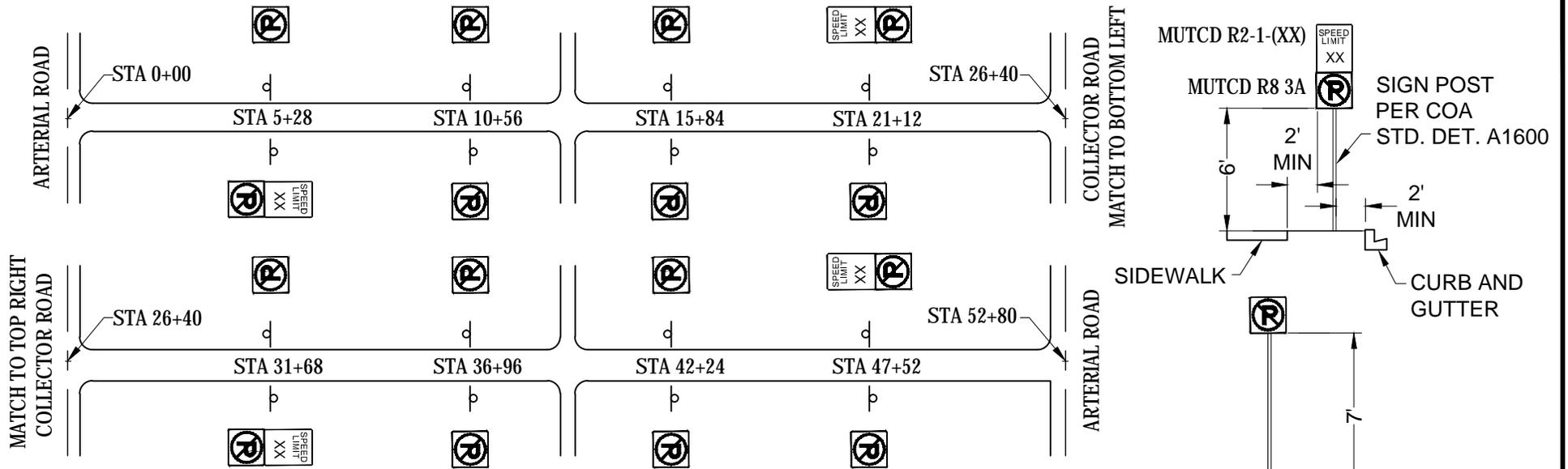
**SIGN LOCATIONS ON
LOCAL STREETS**

APPROVED BY:

David S. Jones

DATE:

8.24.16



NOTES:

1. SIGNING SHOWN ONLY REPRESENTS THE PLACEMENT OF THE NO-PARKING AND SPEED LIMIT SIGNS. ADDITIONAL SIGNING MAY BE REQUIRED DEPENDING ON EACH INDIVIDUAL SITUATION.
2. THE SPACING OF THE NO-PARKING SIGNS SHOULD BE 528' (1/10 MILE) APART, BUT MAY VARY UP TO 50' IF SIGN CAN BE MOUNTED ONTO AN EXISTING POLE OR A STREET LIGHT POLE.
3. NO-PARKING SIGNS SHALL BE R8-3A 24"X24" UNLESS OTHERWISE NOTED.
4. SPEED LIMIT SHALL BE DETERMINED BY THE CITY ENGINEER AND THE SPEED LIMIT SIGN SHALL BE R2-1 24"X30" IN SIZE. THERE SHALL BE 4 SPEED LIMIT SIGNS PER MILE AS SHOWN ABOVE.
5. IF BIKE LANE EXISTS, USE "NO PARKING BIKE LANE" R7-9A SIGN IN PLACE OF R8-3A.
6. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MUTCD.

DETAIL NO.

A1607

Avondale
STANDARD DETAIL

**SIGN LOCATIONS ON
ARTERIAL STREETS**

APPROVED BY:

David S. Jones

DATE:

8.24.16

FIGURE 1

TWO LANE STREET

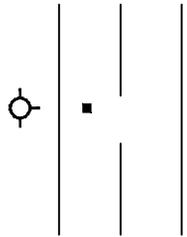


FIGURE 2

MULTI-LANE STREET

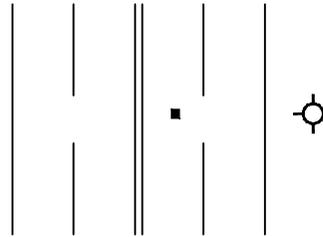


FIGURE 3

TWO LANE STREET AT INTERSECTION

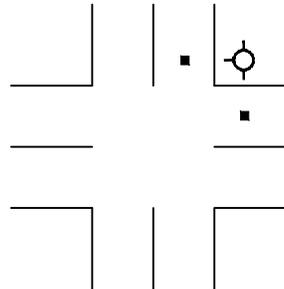


FIGURE 4

FOUR LANE STREET WITH TURN LANE AT INTERSECTION

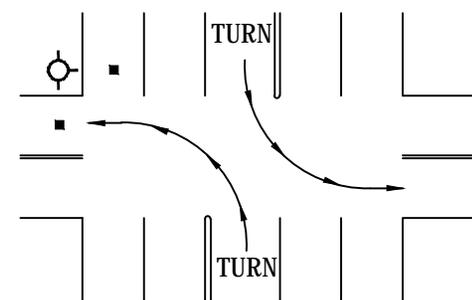


FIGURE 5

FOUR LANE STREET WITH TURN LANE

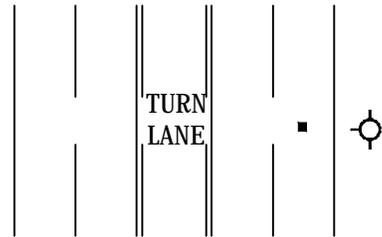


FIGURE 6

SIX LANE STREET WITH MEDIAN

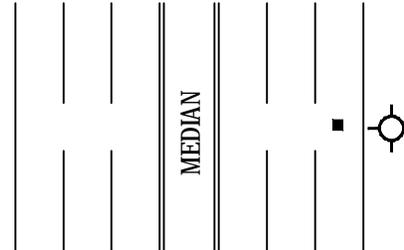
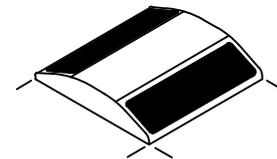


FIGURE 7

(M) PAVEMENT MARKER
(2-WAY REFLECTIVE BLUE)



NOTES:

1. ALL MARKERS TO BE STIMSONITE MODEL 911 AB (BLUE) OR SEE COA APPROVED PRODUCTS LIST.
2. MARKERS TO BE LOCATED IN CENTER OF THE INSIDE THRU LANE NEAREST THE FIRE HYDRANT.

DETAIL NO.

A1609

Avondale
STANDARD DETAIL

**PAVEMENT MARKERS FOR
FIRE HYDRANTS**

APPROVED BY:

David S. Jones

DATE:

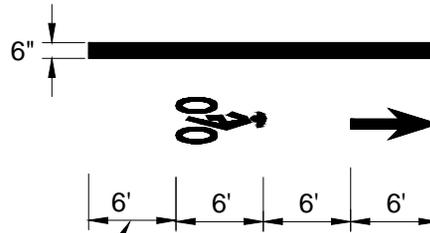
8.24.16

TURN LANE



NOTE: IF TURN LANE EXCEEDS 100', ADD SECOND ARROW 10' FROM BACK END OF LANE LINE.

BIKE LANE



6' FROM CURB RETURN OR BEGINNING OF RIGHT TURN BAY

DETAIL NO.

A1610

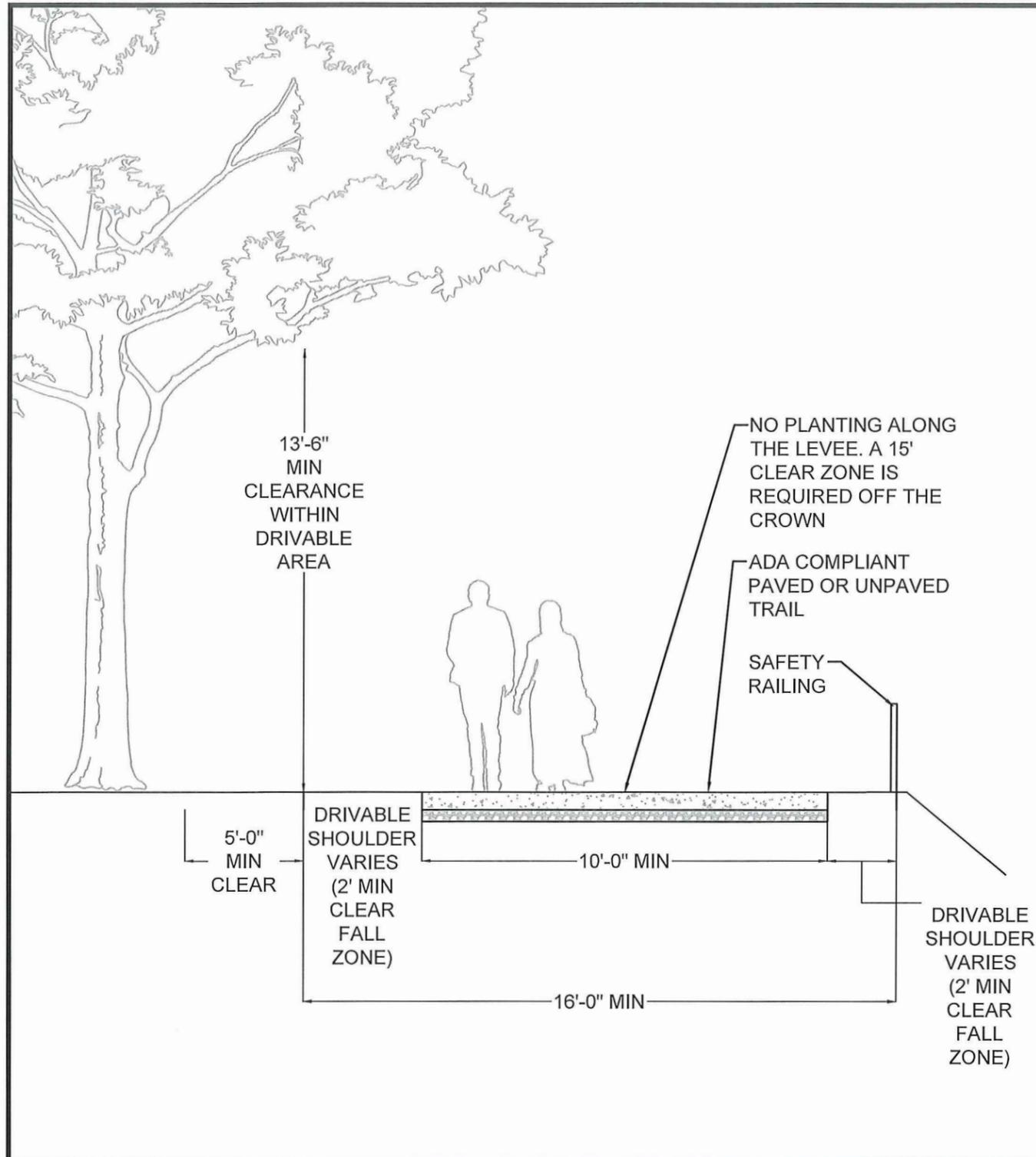
Avondale
STANDARD DETAIL

**PAVEMENT MARKING
DETAILS**

APPROVED BY:

DATE:

8.24.16



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

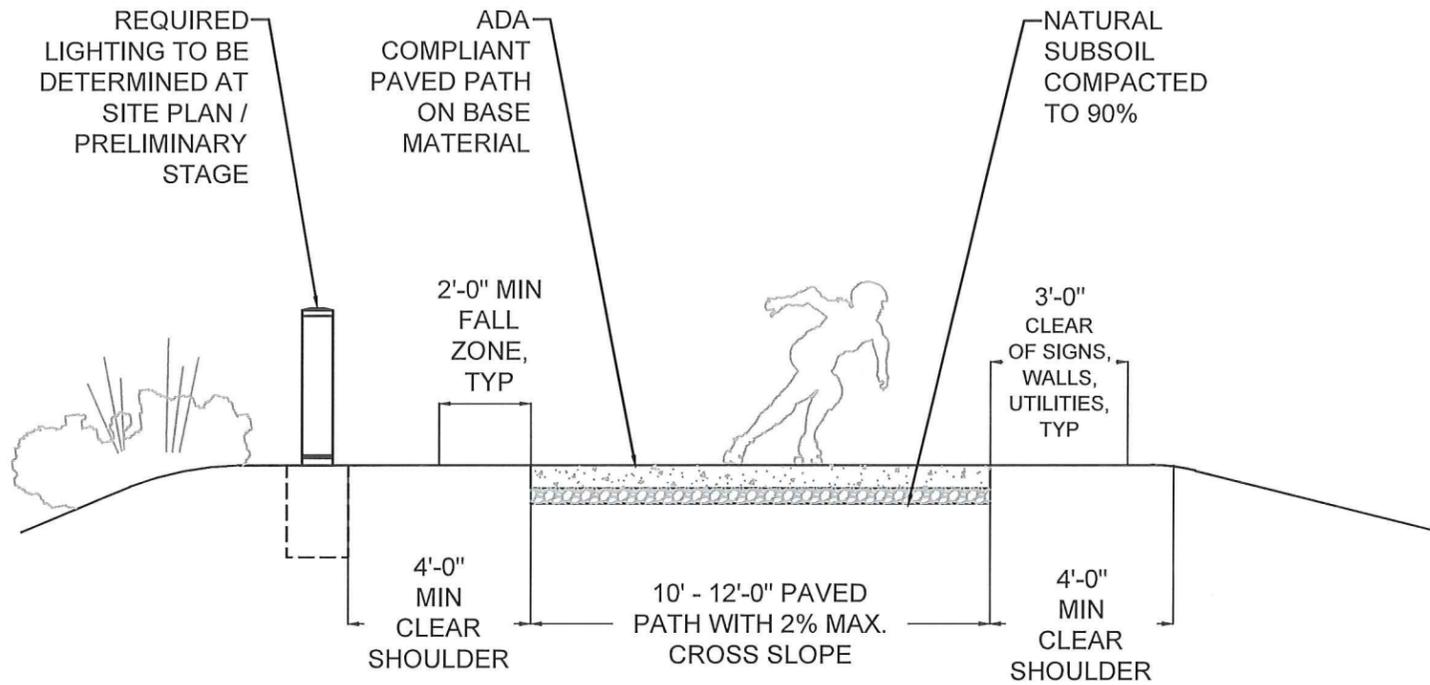
SUGGESTED AMENITIES TO BE COORDINATED WITH THE CITY OF AVONDALE PRIOR TO SUBMITTING THE CIVIL PLAN SET:

- 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. A1650	STANDARD DETAIL	FLOOD CONTROL DISTRICT LEVEE MULTI-USE PATH	APPROVED BY: <i>KMoon</i> DATE: <u>5/14/2025</u>
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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

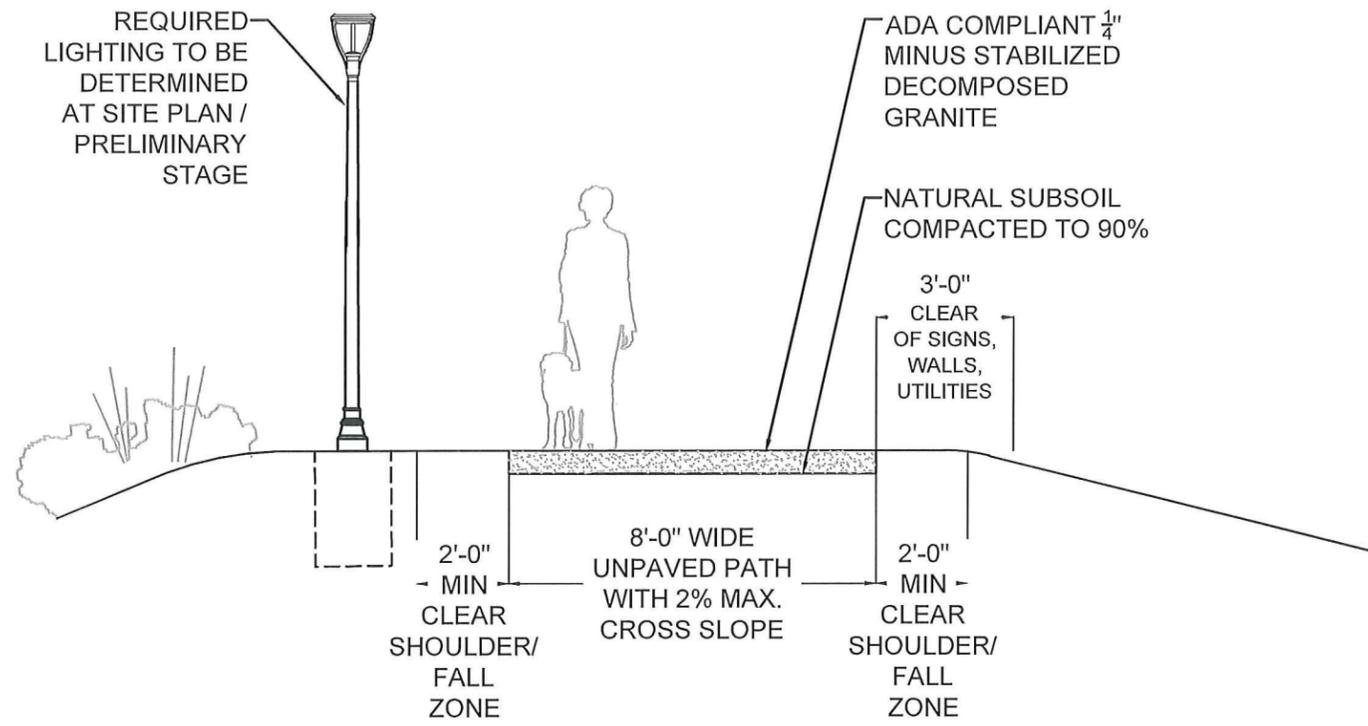
**PAVED MULTI-USE PATH
WITH 20' EASEMENT / RW**

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>K Moon</i> DATE: <u>5/14/2025</u>
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V-DITCH:
LOCATION
DEPENDENT
UPON
DRAINAGE
PATTERNS

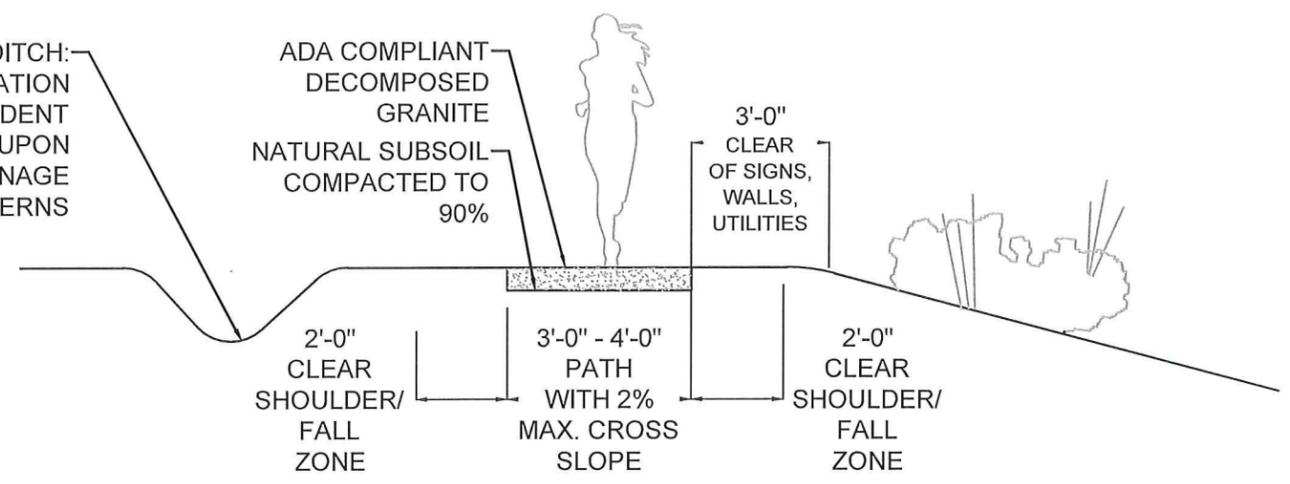
ADA COMPLIANT
DECOMPOSED
GRANITE
NATURAL SUBSOIL
COMPACTED TO
90%

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:

R. Moon

DATE:

5/14/2025