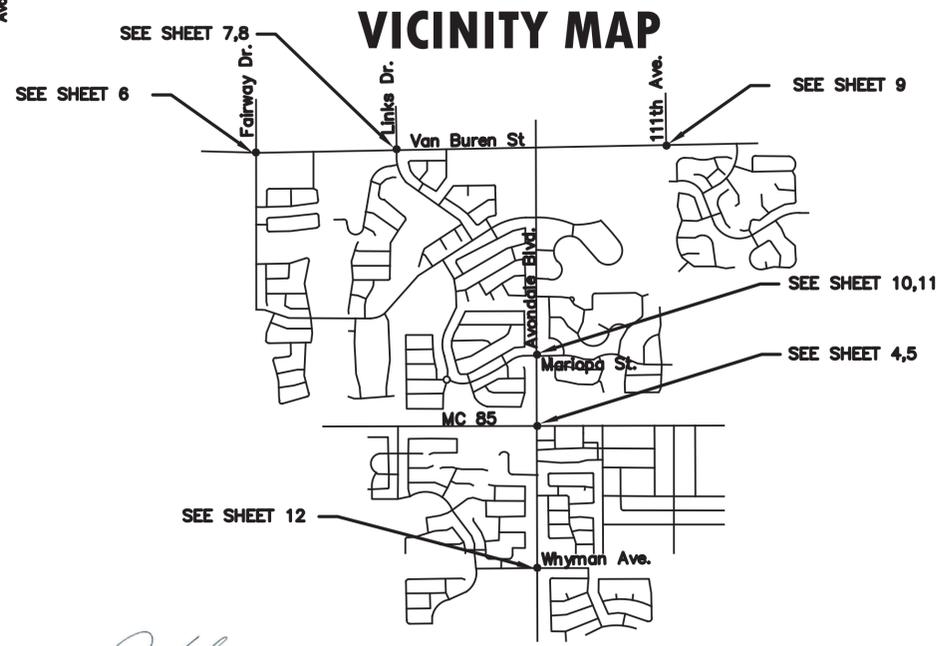
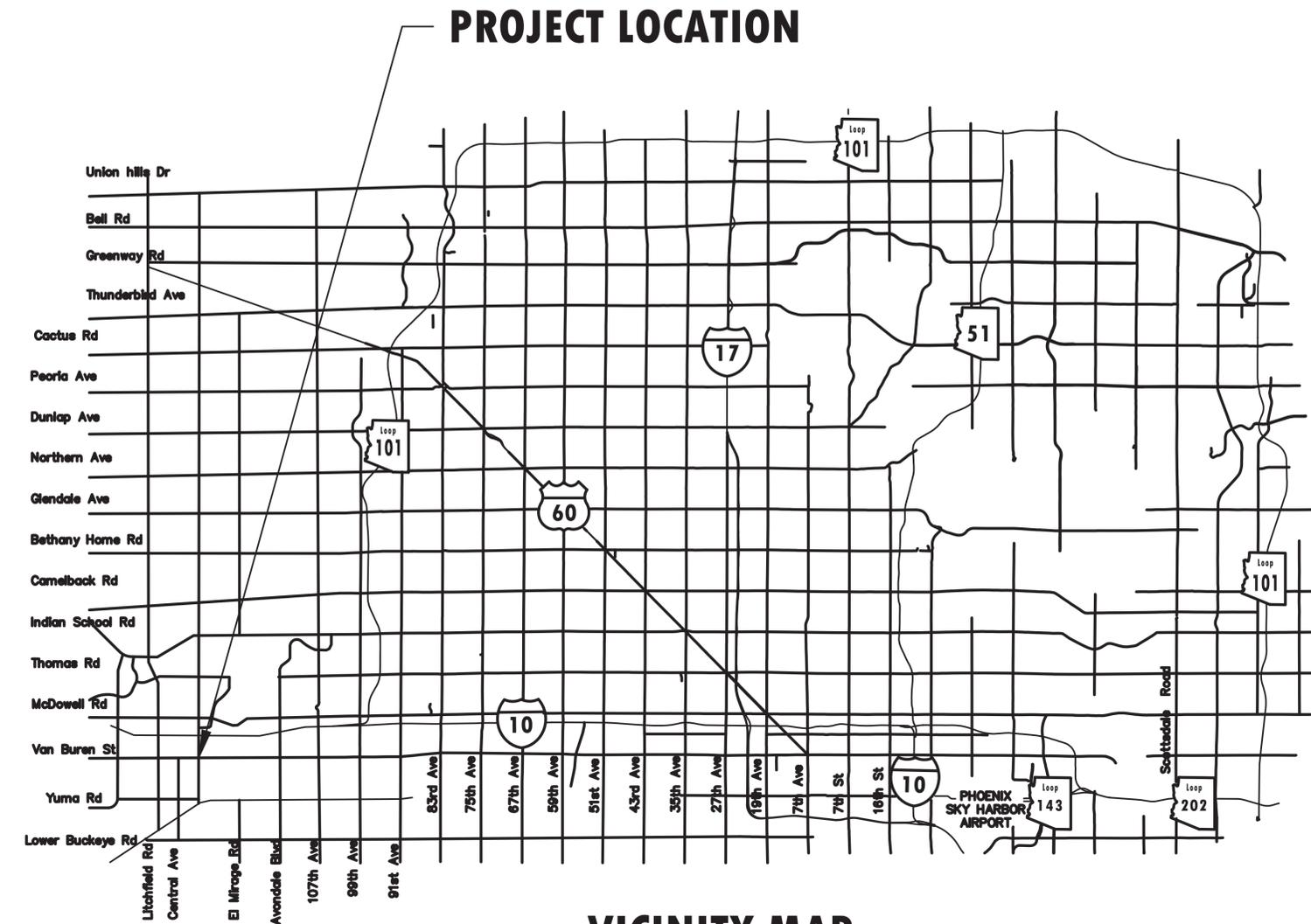


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 April 13, 2021 - 12:56pm  
 Mario Marquez



CIVTECH *Jay Yenerich*  
**JAY YENERICH, P.E. PROJECT MANAGER**  
**4/13/2021**  
 DATE

VALLEY METRO RAIL, INC  
*Marty Ziech*  
**MARTIN ZIECH, PROJECT MANAGER**  
**4/13/2021**  
 DATE



**VALLEY METRO**  
**AVONDALE BUS STOP IMPROVEMENTS**  
**VALLEY METRO CONTRACT NO. 16020-CSS,WA#49**

**VARIOUS LOCATIONS**

**FINAL CONSTRUCTION DOCUMENTS**  
**APRIL 13TH, 2021**

**SHEET INDEX**

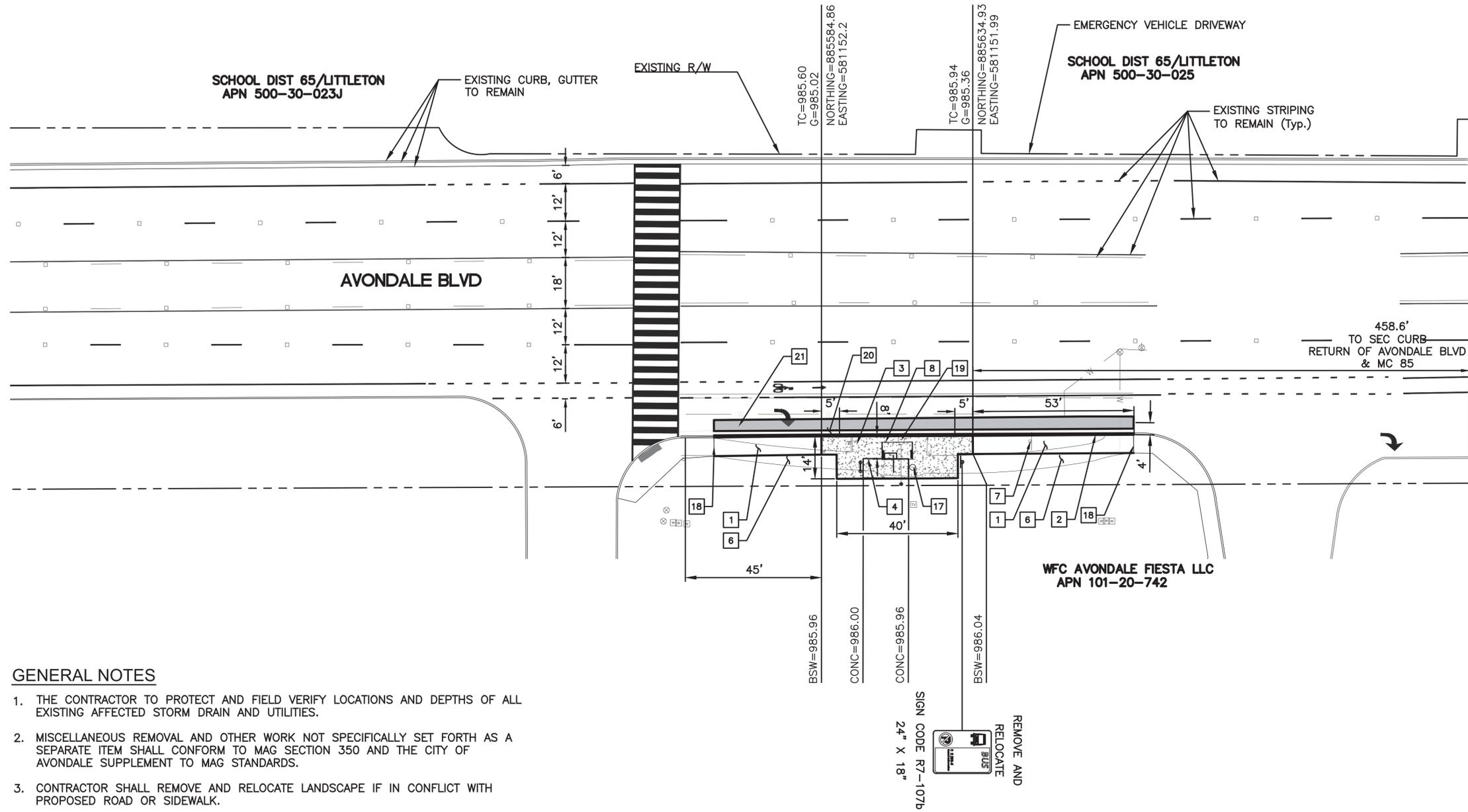
DESCRIPTION	SHEET NO.
COVER SHEET	1
GENERAL NOTES SHEETS	2-3
BUS BAY IMPROVEMENT SHEETS	4-12
LIGHTING DESIGN SHEET	13-15
BUS BAY IMPROVEMENT SHEETS	16-20

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

DRAWING NO:	AVB-CV-001
REVISION:	-
CITY PLAN NO:	-
SHEET NO:	1







**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 2 CONSTRUCT TYPE "A" CURB AND GUTTER PER MAG STANDARD DETAIL 220.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 6 REMOVE EXISTING SIDEWALK.
- 7 REMOVE AND RELOCATE EXISTING SIGN.
- 8 REMOVE AND SALVAGE EXISTING BUS STOP PASSENGER SHELTER AND FURNITURE.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 19 REMOVE AND RELOCATE STREET LIGHT POLE.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB

**GENERAL NOTES**

- 1. THE CONTRACTOR TO PROTECT AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING AFFECTED STORM DRAIN AND UTILITIES.
- 2. MISCELLANEOUS REMOVAL AND OTHER WORK NOT SPECIFICALLY SET FORTH AS A SEPARATE ITEM SHALL CONFORM TO MAG SECTION 350 AND THE CITY OF AVONDALE SUPPLEMENT TO MAG STANDARDS.
- 3. CONTRACTOR SHALL REMOVE AND RELOCATE LANDSCAPE IF IN CONFLICT WITH PROPOSED ROAD OR SIDEWALK.

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.



REV	DATE	BY	REVISIONS DESCRIPTION

SUBMITTED	DATE



**CivTech Inc.**  
 10605 N. Hayden Rd. Suite 140, Scottsdale, AZ 85260  
 480.659.4250 p, 480.659.0566 f, info@civtech.com

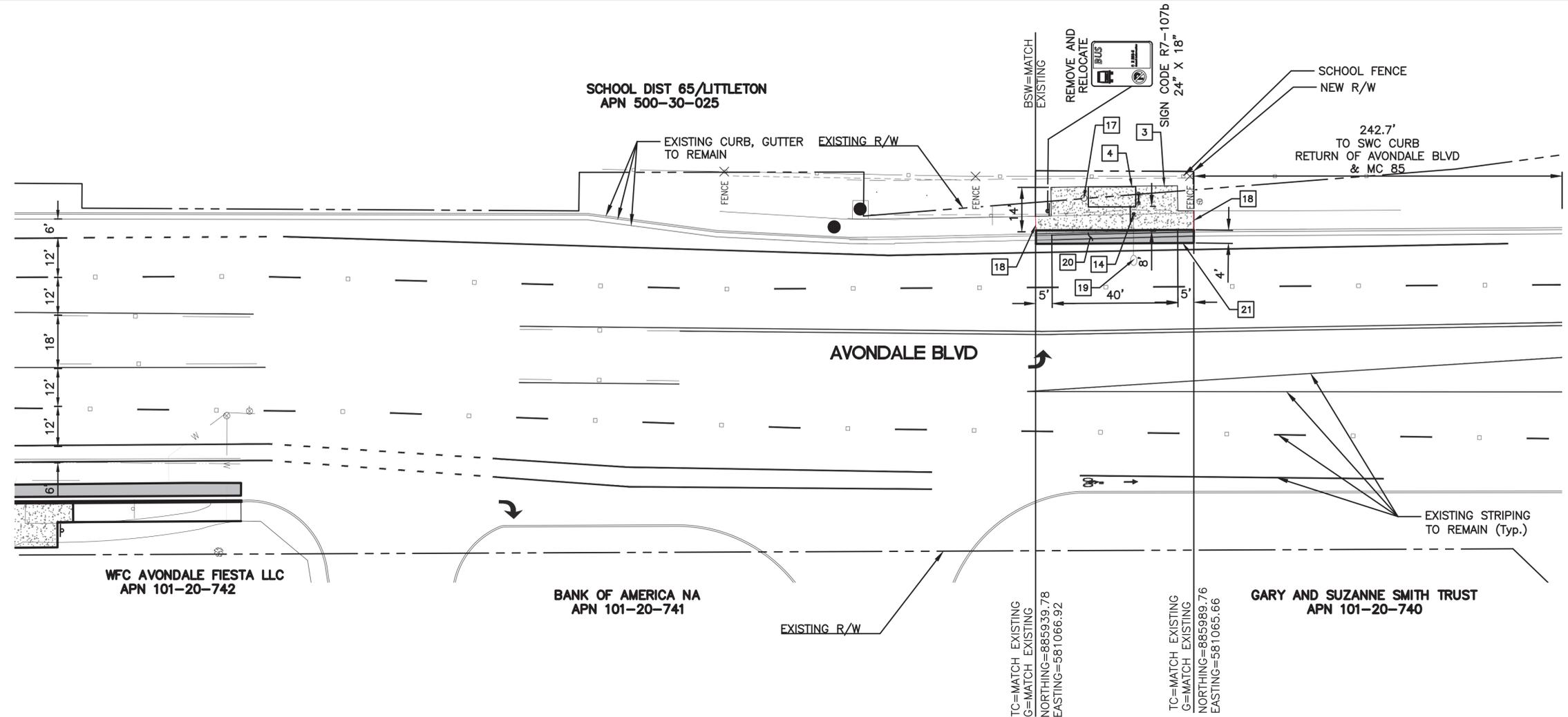
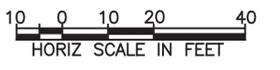


DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS BUS SHELTER IMPROVEMENT PLAN AVONDALE BLVD AND MC 85

DRAWING NO: AVB-RD-002
REVISION:
CITY PLAN NO: -
SHEET NO: 4

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 Mario Marquez April 13, 2021 - 12:53pm



**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 14 ADJUST PULL BOX TO GRADE.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 19 REMOVE AND RELOCATE STREET LIGHT POLE.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB

**GENERAL NOTES**

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Call at least two full working days before you begin excavation.

Arizona Blue Stake, Inc.  
Dial 8-1-1 or 1-800-STAKE-IT (782-5348) in Maricopa County; (602) 263-1100

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

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SUBMITTED	DATE



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DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
BUS SHELTER IMPROVEMENT PLAN  
AVONDALE BLVD AND MC 85 OPTION A

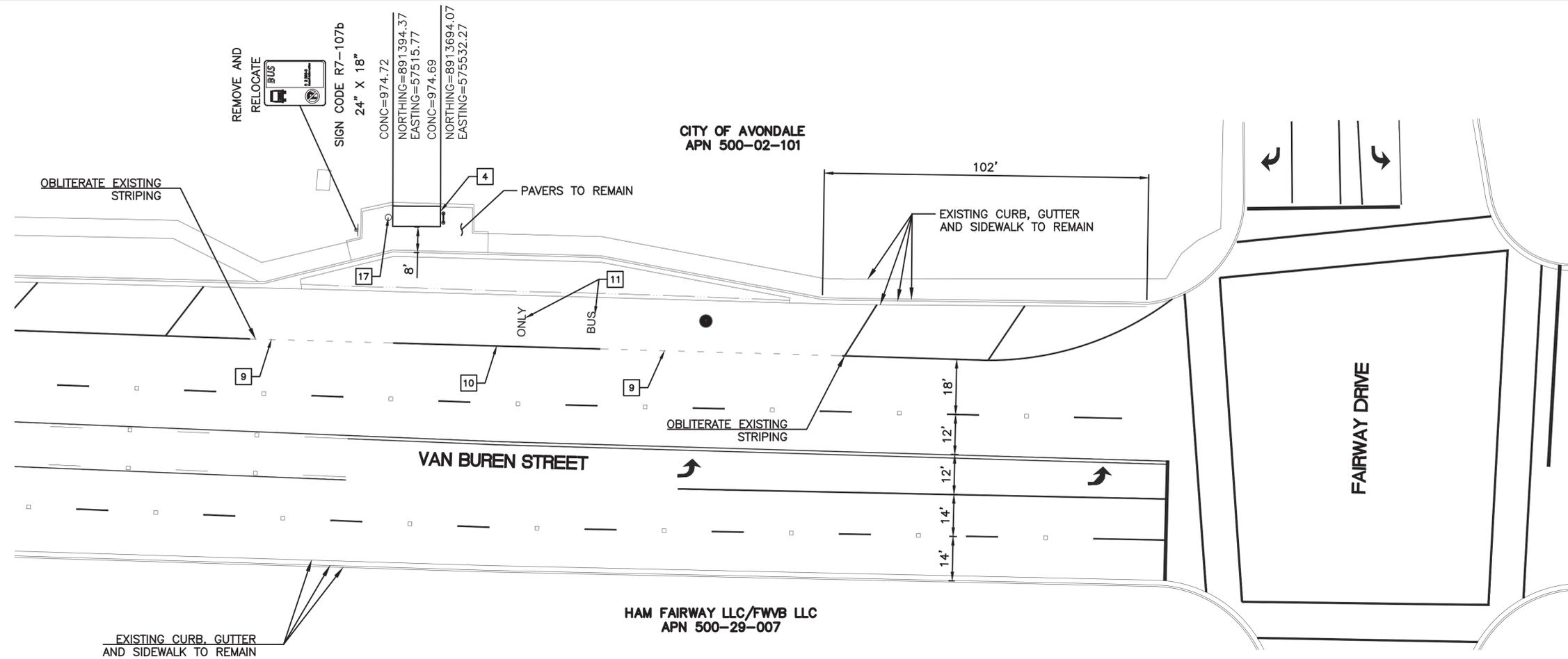
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REVISION:
CITY PLAN NO: -
SHEET NO: 5

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Mario Marquez April 13, 2021 - 12:54pm



**CONSTRUCTION NOTES**

- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 9 INSTALL 6" SKIP WHITE LINE (2' STRIPE, 4' SPACE).
- 10 INSTALL 4" SOLID WHITE LINE.
- 11 INSTALL BUS ONLY LEGEND.
- 17 INSTALL TRASH RECEPTACLE.



**GENERAL NOTES**

1. THE CONTRACTOR TO PROTECT AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING AFFECTED STORM DRAIN AND UTILITIES.
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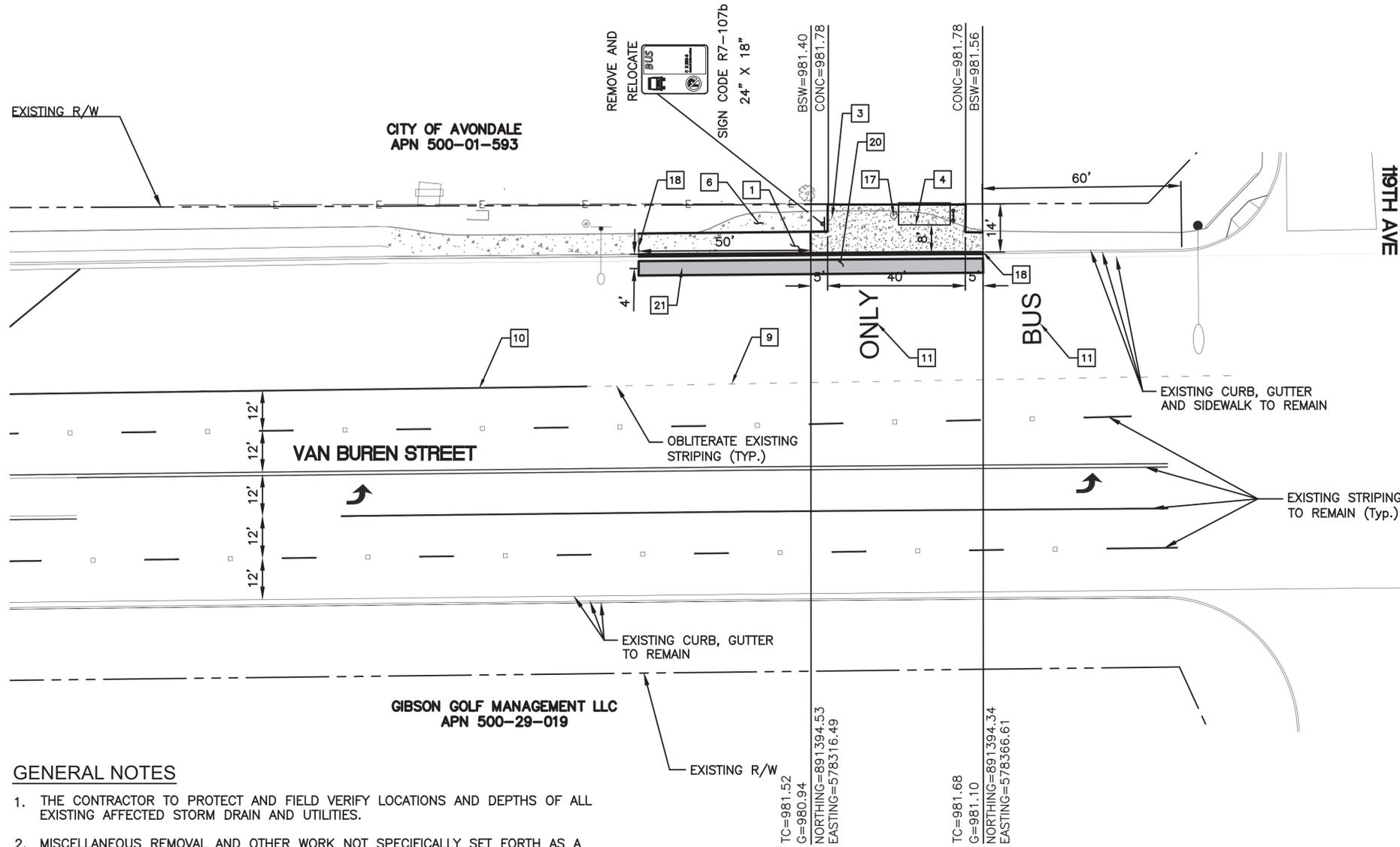


DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: +1/02/20

AVONDALE BUS STOP IMPROVEMENTS  
 BUS SHELTER IMPROVEMENT PLAN  
 VAN BUREN STREET AND FAIRWAY DRIVE

DRAWING NO: AVB-RD-004
REVISION:
CITY PLAN NO: -
SHEET NO: 6

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 Mario Marquez April 13, 2021 - 12:54pm



**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 6 REMOVE EXISTING SIDEWALK.
- 9 INSTALL 6" SKIP WHITE LINE (2' STRIPE, 4' SPACE).
- 10 INSTALL 4" SOLID WHITE LINE
- 11 INSTALL BUS ONLY LEGEND.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB

**GENERAL NOTES**

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in Maricopa County: (602) 263-1100

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480.659.0566 f  
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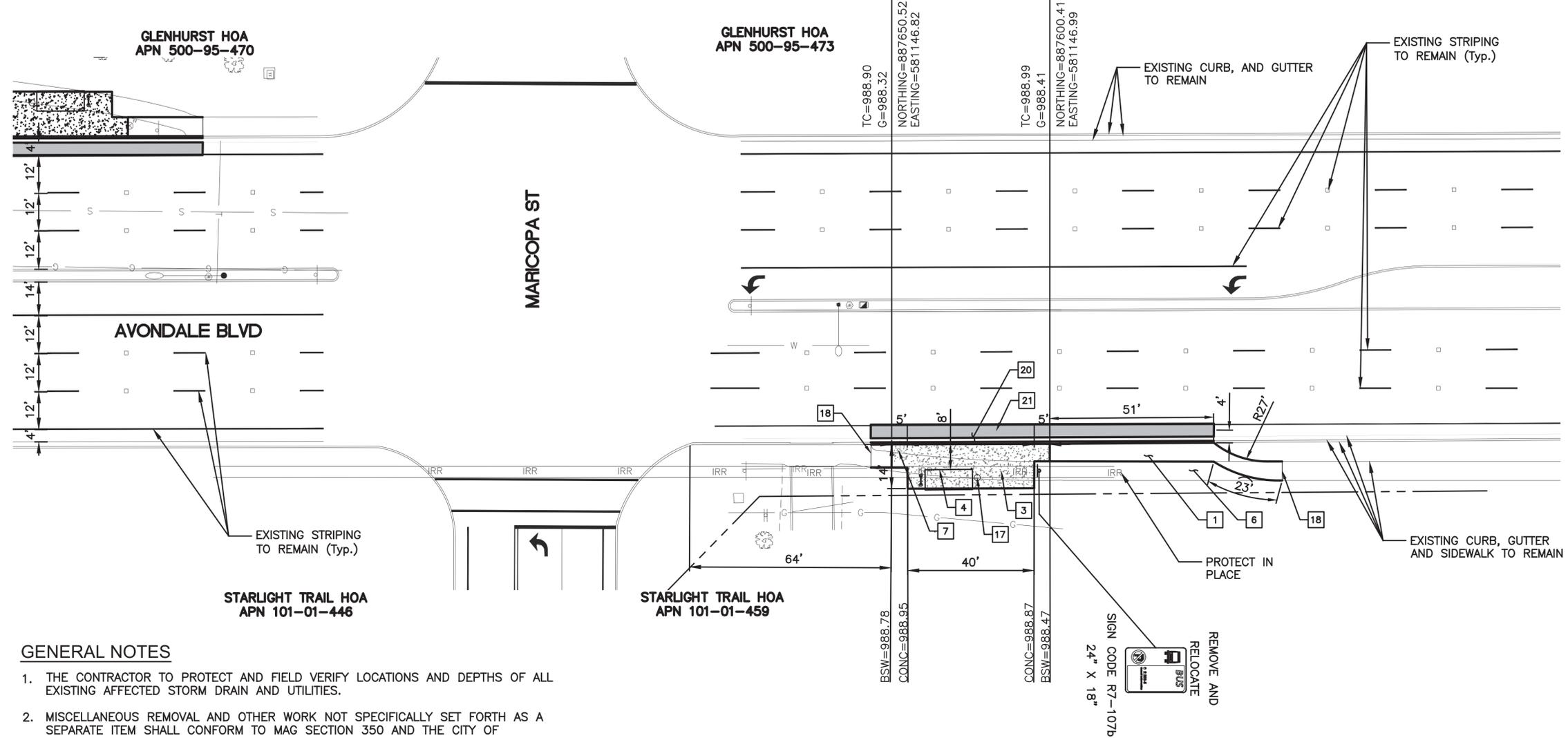
DESIGNED BY: <b>M. MARQUEZ</b>
DRAWN BY: <b>M. MARQUEZ</b>
CHECKED BY: <b>J. YENERICH</b>
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

DRAWING NO: <b>AVB-RD-005</b>
REVISION:
CITY PLAN NO: -
SHEET NO: 7

AVONDALE BUS STOP IMPROVEMENTS  
BUS SHELTER IMPROVEMENT PLAN  
VAN BUREN STREET AND LINKS DRIVE







**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
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- 7 REMOVE AND RELOCATE EXISTING SIGN.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB

**GENERAL NOTES**

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SUBMITTED	DATE



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 480.659.4250 p, 480.659.0566 f, info@civtech.com



DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
 BUS SHELTER IMPROVEMENT PLAN  
 AVONDALE BLVD AND MARICOPA STREET

DRAWING NO: AVB-RD-008
REVISION:
CITY PLAN NO: -
SHEET NO: 10

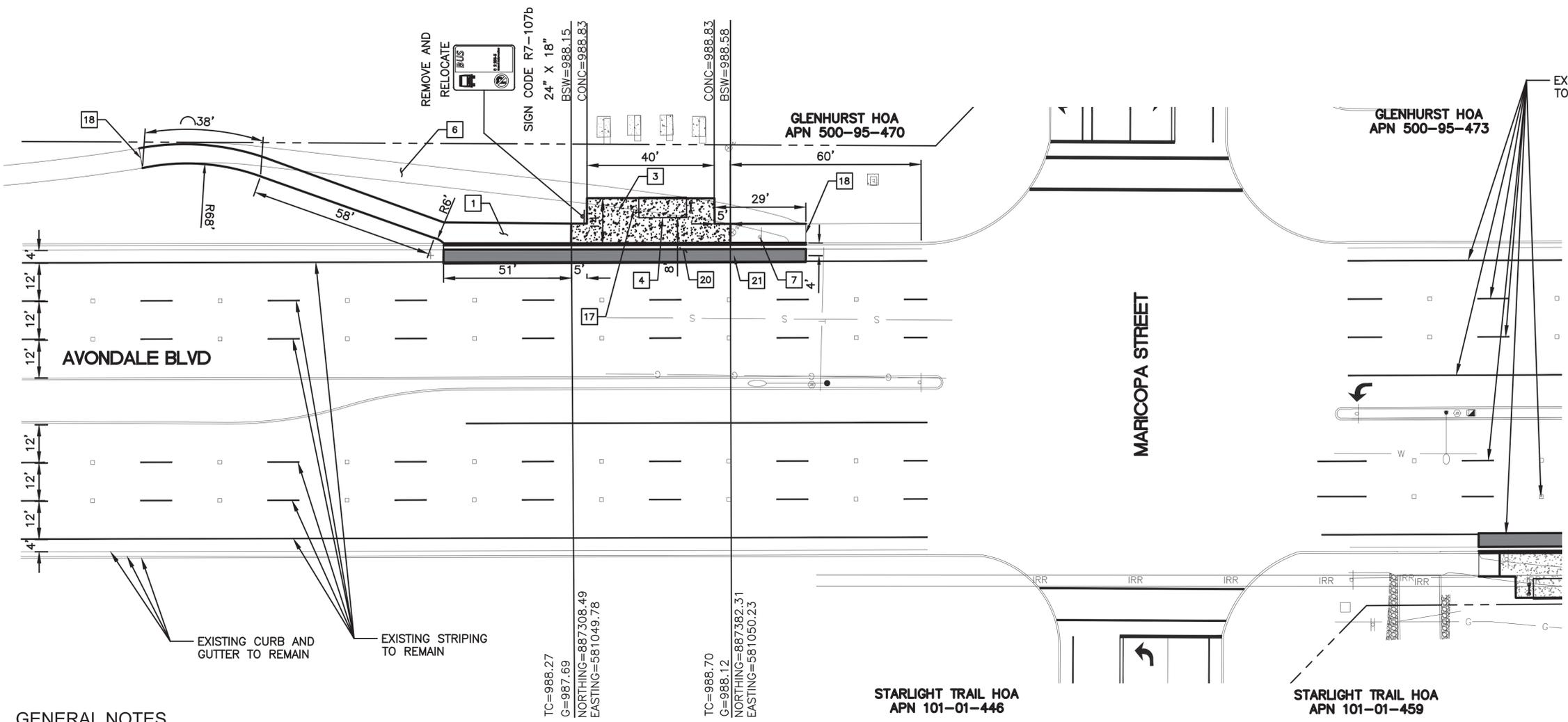
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 Mario Marquez April 13, 2021 - 12:54pm



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**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 6 REMOVE EXISTING SIDEWALK.
- 7 REMOVE AND RELOCATE EXISTING SIGN.
- 16 ADJUST IRRIGATION VALVE BOX TO GRADE.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB



**GENERAL NOTES**

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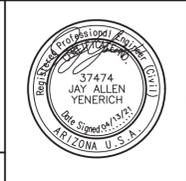
Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona Blue Stake, Inc.  
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)  
In Maricopa County: (602) 263-1100

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

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REVISIONS	DESCRIPTION



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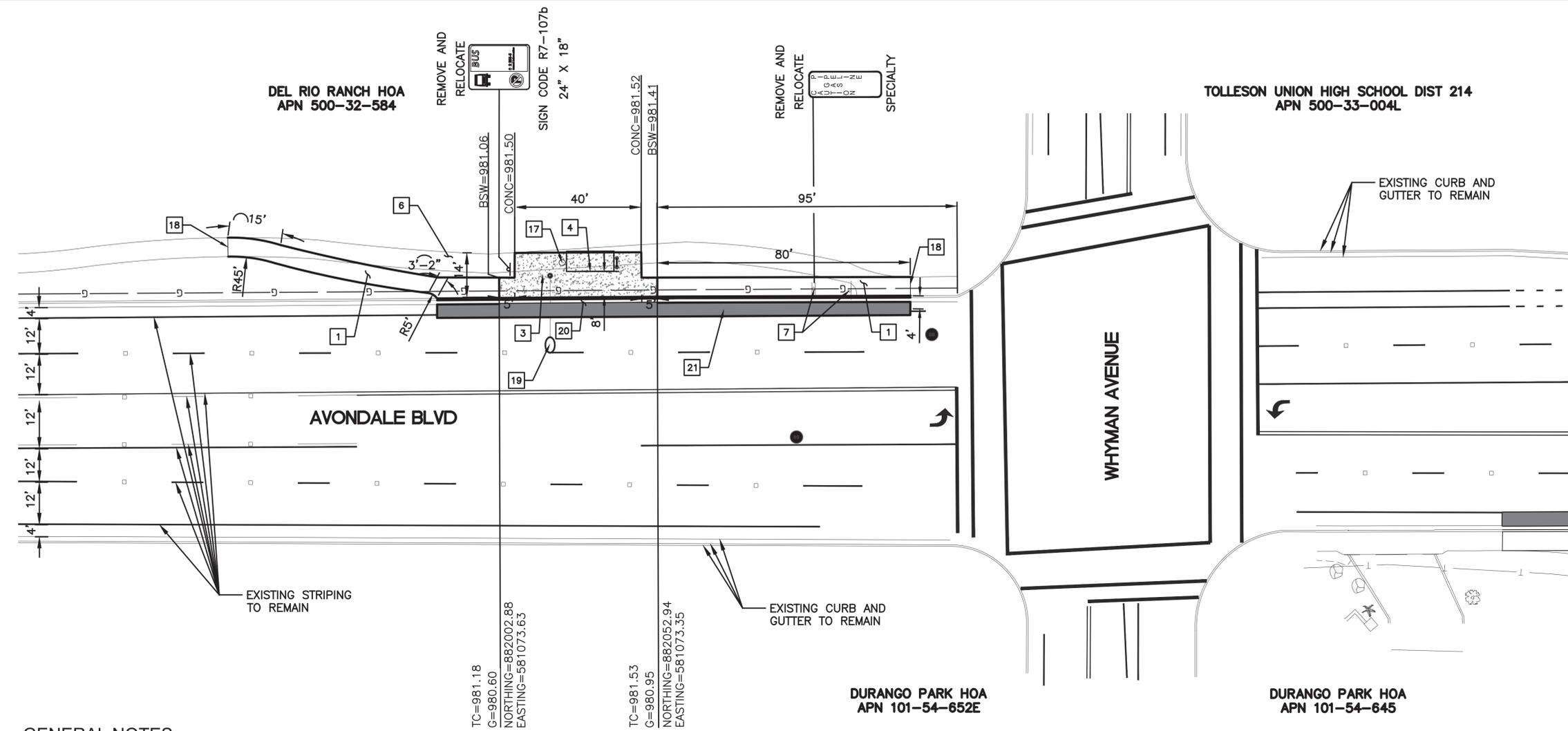


DESIGNED BY: M. MARQUEZ  
 DRAWN BY: M. MARQUEZ  
 CHECKED BY: J. YENERICH  
 APPROVED BY: \_\_\_\_\_  
 SCALE: AS NOTED  
 SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
 BUS SHELTER IMPROVEMENT PLAN  
 AVONDALE BLVD AND MARICOPA STREET

DRAWING NO:	AVB-RD-009
REVISION:	
CITY PLAN NO:	
SHEET NO:	11

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Mario Marquez April 13, 2021 - 12:54pm



**CONSTRUCTION NOTES**

- 1 CONSTRUCT 6' CONCRETE SIDEWALK PER MAG STANDARD DETAIL 230.
- 2 CONSTRUCT TYPE "A" CURB AND GUTTER PER MAG STANDARD DETAIL 220.
- 3 CONSTRUCT BUS SHELTER PAD PER COA STANDARD DETAIL A1253-1. MODIFIED DETAIL WITH AN ENHANCED CONCRETE FINISH INSTEAD OF PAVERS.
- 4 INSTALL BUS SHELTER AND FURNITURE PER DESIGN ON PAGE 13.
- 6 REMOVE EXISTING SIDEWALK.
- 7 REMOVE AND RELOCATE EXISTING SIGN.
- 17 INSTALL TRASH RECEPTACLE.
- 18 SAWCUT AND MATCH EXISTING SIDEWALK.
- 19 REMOVE AND RELOCATE STREET LIGHT POLE.
- 20 4' AC REMOVAL AND REPLACEMENT SEE SHEET 20
- 21 SAWCUT AC AND CURB

**GENERAL NOTES**

- 1. THE CONTRACTOR TO PROTECT AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING AFFECTED STORM DRAIN AND UTILITIES.
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REV	DATE	BY	DESCRIPTION

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**CivTech Inc.**  
10605 N. Hayden Rd. Suite 140  
Scottsdale, AZ 85260  
480.659.4250 p  
480.659.0566 f  
info@civtech.com

APPROVED



DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS BUS SHELTER IMPROVEMENT PLAN AVONDALE BLVD AND WHYMAN AVE

DRAWING NO: AVB-RD-010
REVISION:
CITY PLAN NO: -
SHEET NO: 12

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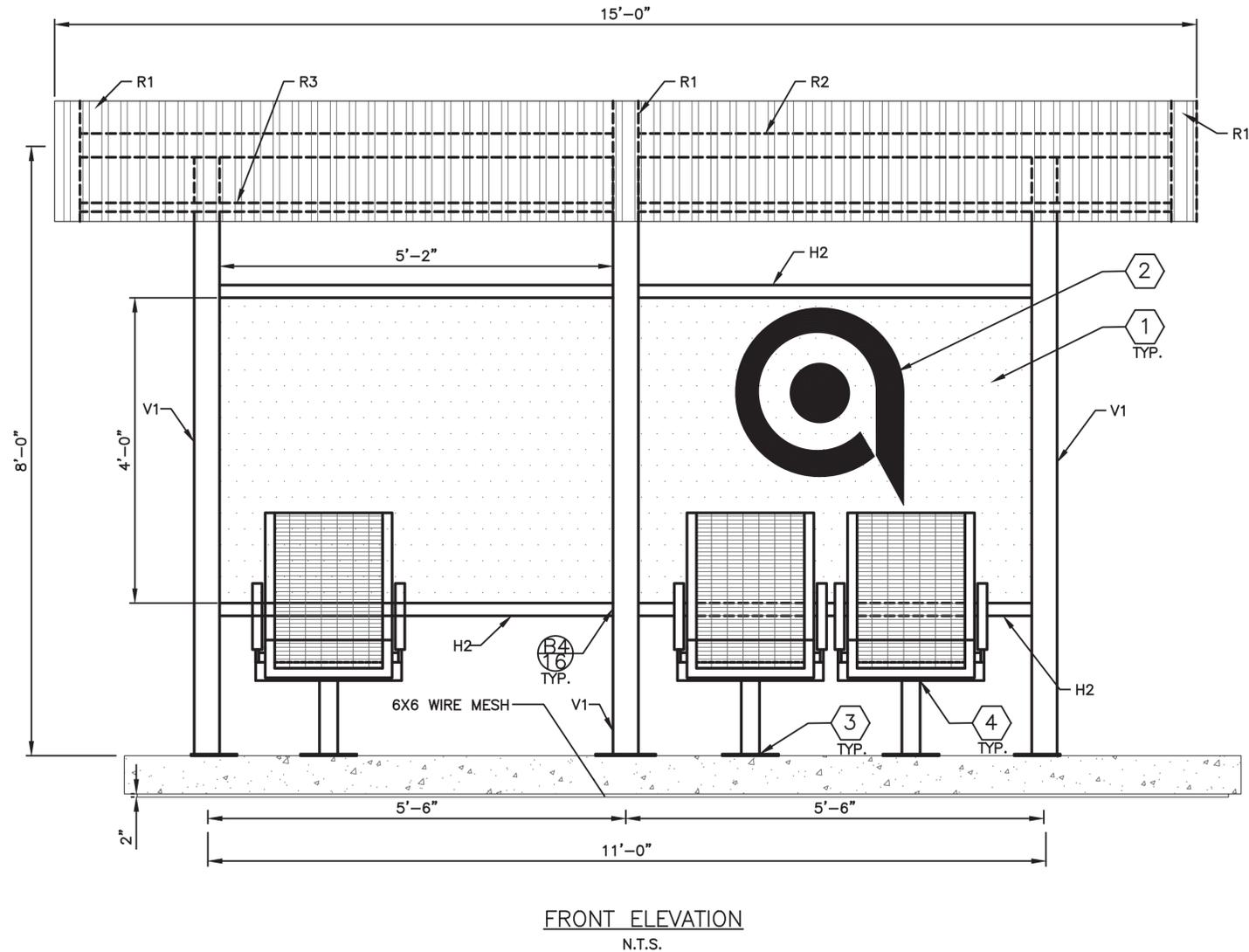
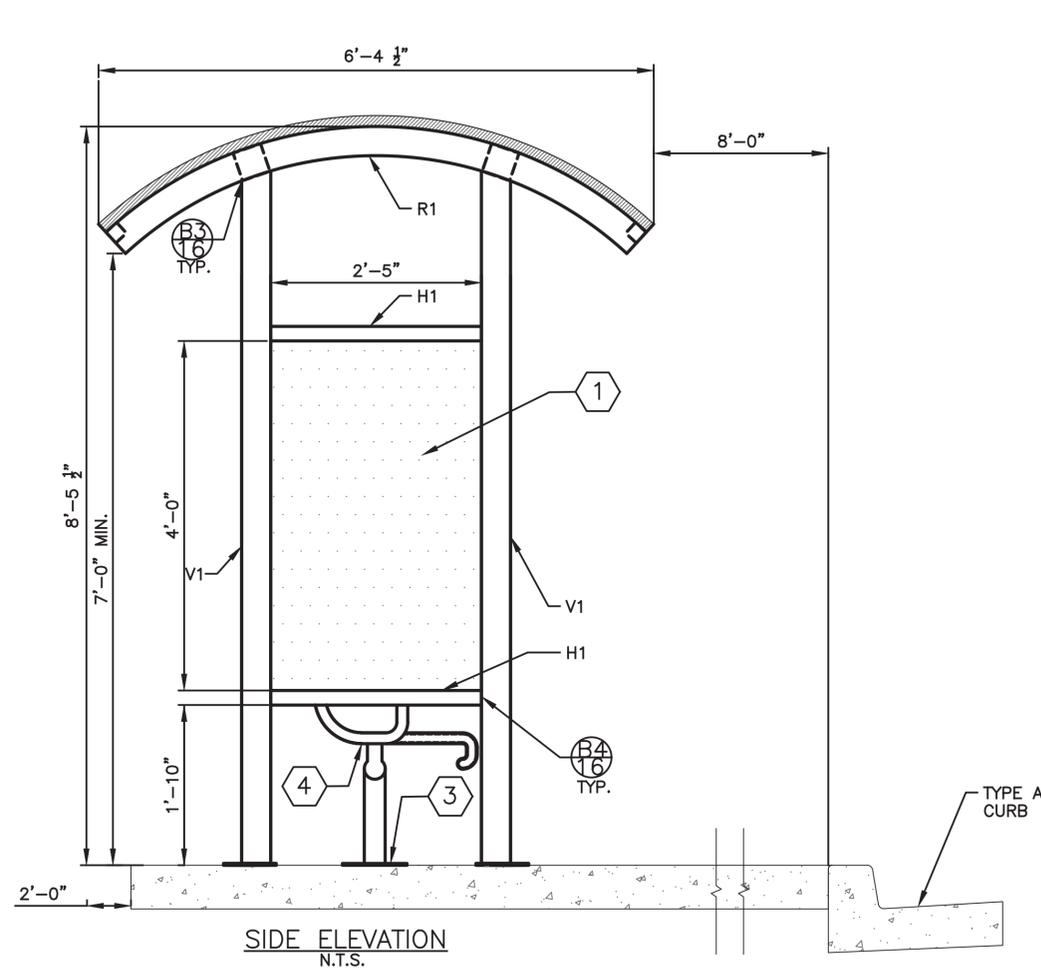






**NOTES:**

1. 1/8" THICK STEEL PERFORATED PANEL. 3/8" MIN. Ø HOLES W/ 50% OPEN AREA. SEE DETAIL B5 ON SHEET 16 FOR ATTACHMENT.
2. AVONDALE DECORATIVE PANEL.
3. SEE DETAIL C2 ON SHEET 16 FOR BASE PLATE DETAIL FOR CHAIR AND BENCH.
4. CHAIRS AND/OR BENCHES TO BE PROVIDED BY CONTRACTOR FOLLOWING APPROVAL BY CITY.
5. ALL EXPOSED TUBE ENDS SHALL HAVE A 1/4" CAP PLATE WITH AN ALL-AROUND 3/16" SEAL WELD.



MEMBER SCHEDULE	
V1	HSS4X4X1/4
H1	HSS2X2X1/4
H2	HSS2X2X1/4
R1	HSS4X4X1/4
R2	HSS4X4X1/4
R3	HSS2X2X1/4

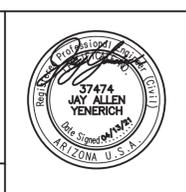
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10605 N. Hayden Rd. Suite 140, Scottsdale, AZ 85260  
480.659.4250 p, 480.659.0566 f, info@civtech.com

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_



DESIGNED BY: M. MARQUEZ  
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APPROVED BY: \_\_\_\_\_  
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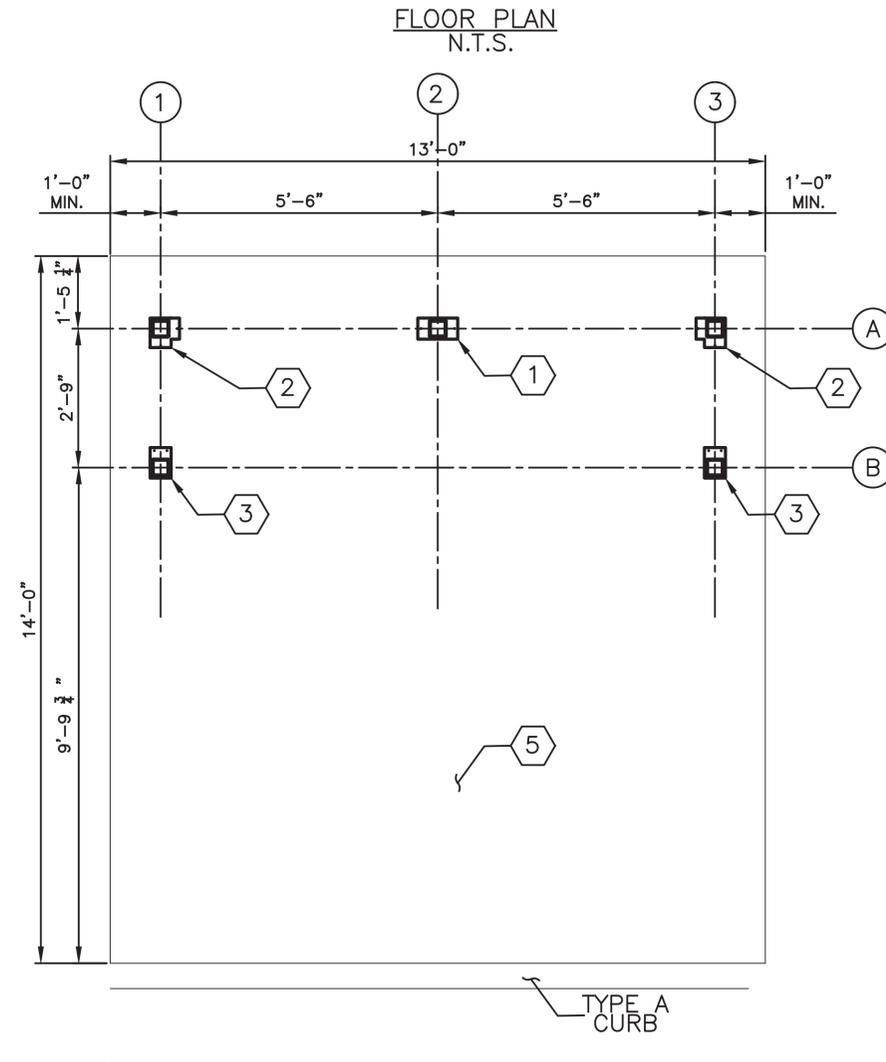
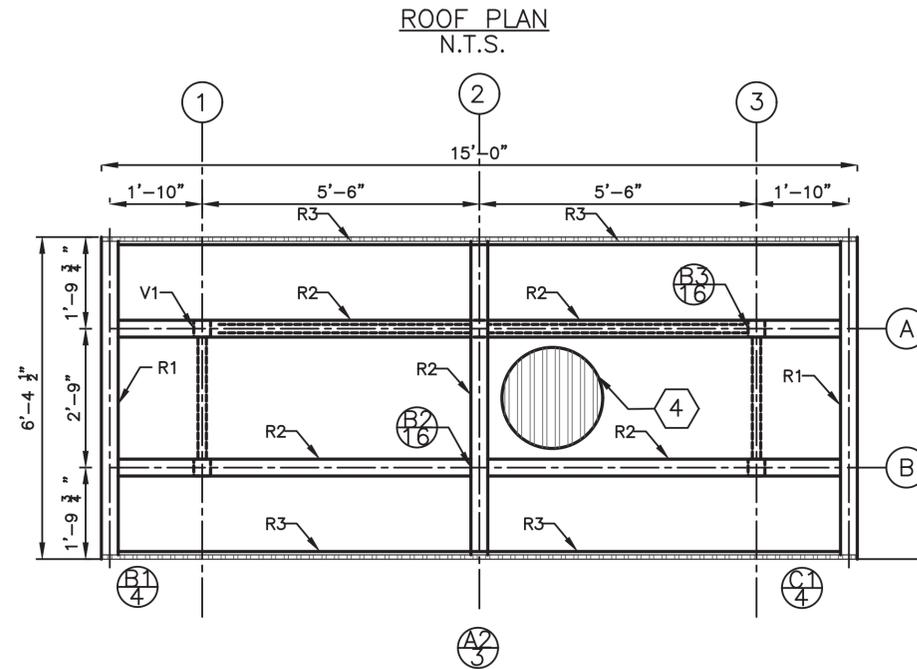
AVONDALE BUS STOP IMPROVEMENTS  
BUS SHELTER IMPROVEMENT PLAN  
BUS SHELTER DETAIL

DRAWING NO:	AVB-DT-001
REVISION:	
CITY PLAN NO:	
SHEET NO:	16

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Mario Marquez April 13, 2021 12:55pm

**NOTES:**

1. SEE DETAIL A1 ON SHEET 16 FOR BASE PLATE TYPE 1.
2. SEE DETAIL A2 ON SHEET 16 FOR BASE PLATE TYPE 2.
3. SEE DETAIL A3 ON SHEET 16 FOR BASE PLATE TYPE 3.
4. 22 GAGE FLOLINE 900 CURVED PAINTED METAL DECK OR APPROVED EQUAL W/ NESTABLE SIDE LAPS. ATTACH DECK SUPPORTS PERPENDICULAR TO RIBS W/ (4) #10 TEK SCREWS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS W/ #10 TEK SCREWS @ 24" O.C. ATTACH SIDE LAPS W/ #10 TEK SCREWS AT 24" O.C.
5. CONCRETE FOUNDATION.



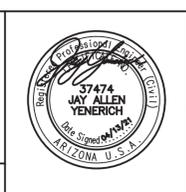
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H2	HSS2X2X1/4
R1	HSS4X4X1/4
R2	HSS4X4X1/4
R3	HSS2X2X1/4



NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

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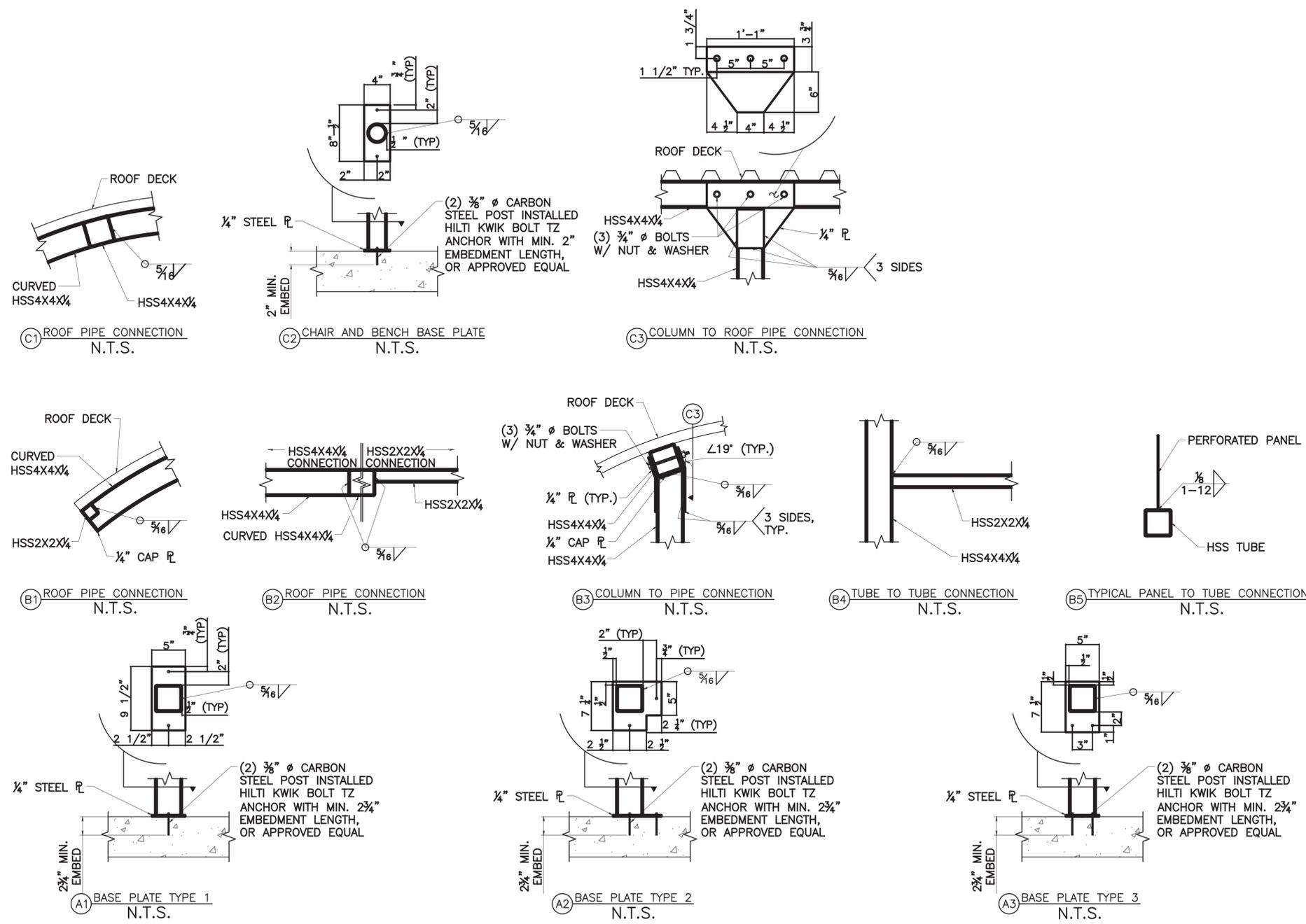
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 APPROVED BY: \_\_\_\_\_  
 SCALE: AS NOTED  
 SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
 BUS SHELTER IMPROVEMENT PLAN  
 ROOF DETAIL

DRAWING NO:	AVB-DT-002
REVISION:	
CITY PLAN NO:	
SHEET NO:	17

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 Mario Marquez April 13, 2021 12:55pm

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 Mario Marquez April 13, 2021 - 12:55pm



Call at least two full working days before you begin excavation.

**ARIZONA 811**  
 Arizona Blue Stake, Inc.  
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)  
 in Maricopa County: (602) 263-1100

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

REV	DATE	BY	DESCRIPTION

SUBMITTED	DATE



**CivTech Inc.**  
 10605 N. Hayden Rd. Suite 140  
 Scottsdale, AZ 85260  
 480.659.4250 p  
 480.659.0566 f  
 info@civtech.com

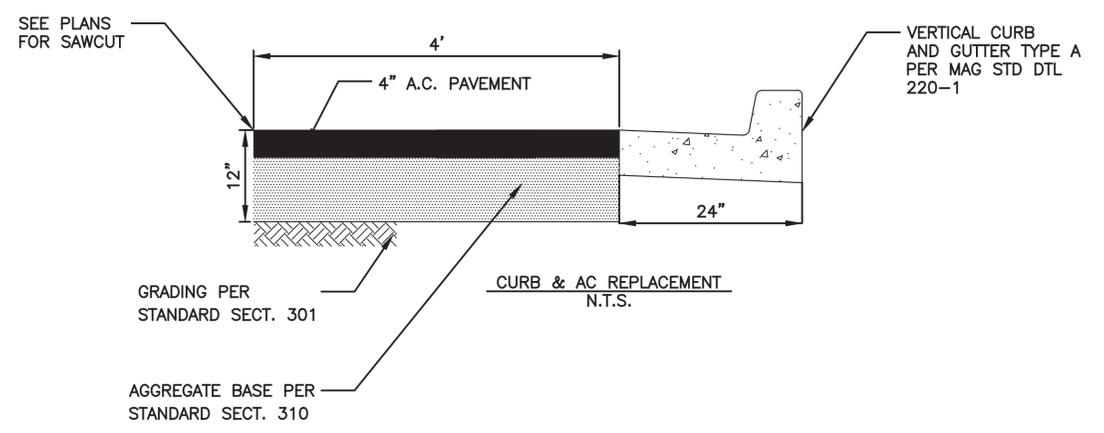
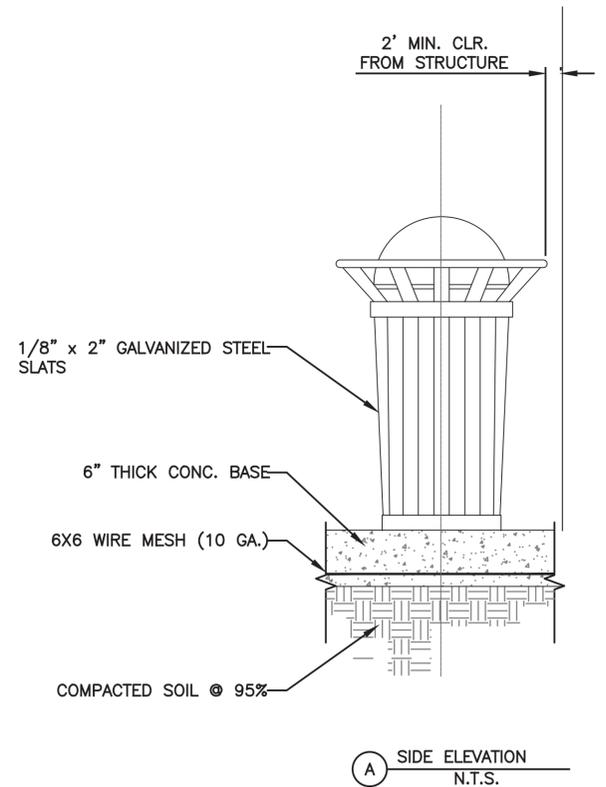
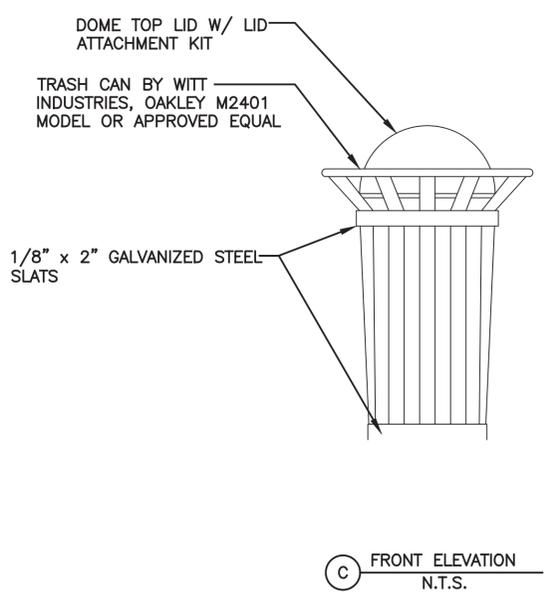
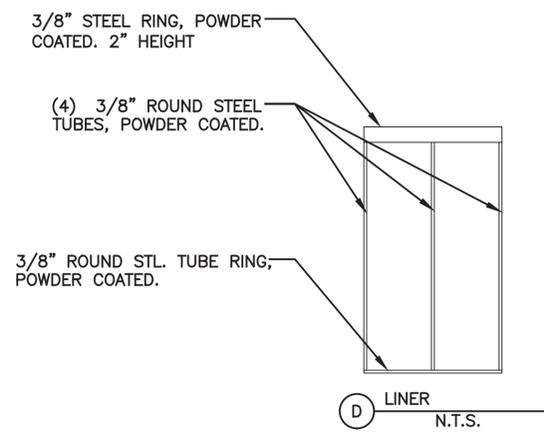
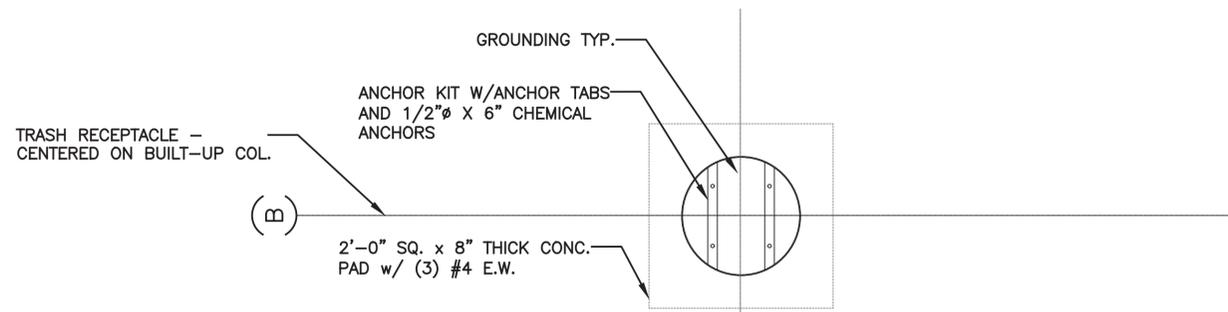


DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
 BUS SHELTER IMPROVEMENT PLAN  
 CONNECTION DETAIL

DRAWING NO: AVB-DT-003
REVISION:
CITY PLAN NO: -
SHEET NO: 18





Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona Blue Stake, Inc.  
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)  
in Maricopa County: (602) 263-1100

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS PER 49 CFR PART 661.

REV	DATE	BY	REVISIONS DESCRIPTION

SUBMITTED	DATE



**CivTech Inc.**  
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APPROVED

DATE



DESIGNED BY: M. MARQUEZ
DRAWN BY: M. MARQUEZ
CHECKED BY: J. YENERICH
APPROVED BY:
SCALE: AS NOTED
SUBMITTAL DATE: 11/02/20

AVONDALE BUS STOP IMPROVEMENTS  
BUS SHELTER IMPROVEMENT PLAN  
TRASH RECEPTACLE/CURB & AC DETAIL

DRAWING NO: AVB-DT-005
REVISION:
CITY PLAN NO: -
SHEET NO: 20

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