### CITY OF SIERRA VISTA DETAILS INDEX - PUBLIC

#### 100 Series: General Information

<table>
<thead>
<tr>
<th>DETAIL #</th>
<th>TITLE</th>
<th>REV DATE</th>
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<tbody>
<tr>
<td>SV001</td>
<td>PROJECT SIGN DETAIL</td>
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<td>SV003</td>
<td>PRIVATE ROAD SIGN DETAIL</td>
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<tr>
<td>SV100</td>
<td>TYPICAL SIDEWALK/PATH CLEARANCE</td>
<td>06/2021</td>
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<tr>
<td>SV117</td>
<td>SIGN POST DETAIL</td>
<td>06/2021</td>
</tr>
<tr>
<td>SV117-1</td>
<td>STOP SIGN &amp; STREET NAME SIGN INSTALLATION</td>
<td>06/2021</td>
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<tr>
<td>SV117-2</td>
<td>SIGN PLACEMENT ON SHARED-USE PATH DETAIL</td>
<td>06/2021</td>
</tr>
<tr>
<td>SV117-3</td>
<td>SIGN PLACEMENT DETAIL ADJACENT TO SIDEWALKS</td>
<td>06/2021</td>
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<td>SV120</td>
<td>SURVEY MARKER FOR LOCAL STREETS</td>
<td>06/2021</td>
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<tr>
<td>SV170</td>
<td>8 YARD DUMPSTER PAD DETAIL</td>
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<td>SV170-1</td>
<td>DOUBLE DUMPSTER DETAIL</td>
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<tr>
<td>SV170-2</td>
<td>SUPPLEMENTAL DUMPSTER DETAIL</td>
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#### 200 Series: Street Information

<table>
<thead>
<tr>
<th>DETAIL #</th>
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<tbody>
<tr>
<td>SV200</td>
<td>ASPHALT PAVEMENT CRACK SEALING AND FILLING</td>
<td>06/2021</td>
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<tr>
<td>SV200-1-A</td>
<td>“T TOP” TRENCH BACKFILL AND SURFACE REPLACEMENT DETAIL</td>
<td>06/2021</td>
</tr>
<tr>
<td>SV200-2</td>
<td>TRENCH BACKFILL AND SURFACE REPLACEMENT DETAIL</td>
<td>06/2021</td>
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<tr>
<td>SV200-3</td>
<td>STORM DRAIN/SEWER/UTILITY BACKFILL &amp; BEDDING DETAIL</td>
<td>06/2021</td>
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<tr>
<td>SV200-4</td>
<td>BACKFILL &amp; BEDDING TABLE</td>
<td>06/2021</td>
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<tr>
<td>SV201</td>
<td>TYPICAL PAVEMENT SECTION AT TERMINATION DETAIL</td>
<td>06/2021</td>
</tr>
<tr>
<td>SV202</td>
<td>TYPICAL PAVEMENT SECTION DETAIL</td>
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<tr>
<td>SV203</td>
<td>SCUPPER DETAIL, FORMER SV206-3</td>
<td>06/2021</td>
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<tr>
<td>SV206-4</td>
<td>SHARED-USE PATH CONCRETE SCUPPER DETAIL, FORMER SV206-2</td>
<td>06/2021</td>
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<td>SV211</td>
<td>STANDARD TRENCH PLATING DETAIL</td>
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<td>SV212</td>
<td>UTILITY POTHOLE REPAIR DETAIL</td>
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<td>SV220-1</td>
<td>CURB AND GUTTER TYPES A, B, C, AND D DETAIL</td>
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<td>SV220-1-A</td>
<td>VERTICAL CURB AND GUTTER DETAIL</td>
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<td>SV220-1-C</td>
<td>ROLL CURB AND GUTTER DETAIL</td>
<td>12/2020</td>
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<td>SV221</td>
<td>CURB AND GUTTER TRANSITION AND INTEGRAL ROLL CURB, GUTTER AND SIDEWALK</td>
<td>06/2021</td>
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<tr>
<td>SV230</td>
<td>SIDEWALK DETAIL</td>
<td>06/2021</td>
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<td>SV231</td>
<td>SHARED-USE PATH DETAIL</td>
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<td>SV231-1</td>
<td>SHARED-USE PATH HANDRAIL AND FOOTER DETAIL</td>
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<td>SV231-2</td>
<td>SHARED-USE PATH PAVEMENT MARKINGS DETAIL</td>
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<td>SV235-1</td>
<td>ADA RAMPS WITH TRUNCATED DOME PAVERS</td>
<td>06/2021</td>
</tr>
<tr>
<td>SV235-2</td>
<td>EXISTING ADA RAMP MODIFICATION WITH TRUNCATED DOME PAVERS</td>
<td>06/2021</td>
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<tr>
<td>SV235-3</td>
<td>ADA CURB RAMP</td>
<td>06/2021</td>
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<tr>
<td>SV240</td>
<td>VALLEY GUTTER AND CURB RAMP RETURN DETAIL</td>
<td>06/2021</td>
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<td>------------------------------------------</td>
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<tr>
<td>SV251</td>
<td>RETURN TYPE DRIVEWAYS FOR COMMERCIAL PROPERTIES DETAIL</td>
<td>06/2021</td>
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<tr>
<td>SV262</td>
<td>COMBINED RESIDENTIAL/COMMERCIAL ALLEYWAY AND DRIVEWAY ENTRANCE</td>
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<td>SV262-1</td>
<td>DRIVEWAY DETAIL WITH ROLLED CURB</td>
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<tr>
<td>SV263</td>
<td>ADA TRUNCATED DOME WARNING PAVERS</td>
<td>06/2021</td>
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<tr>
<td>SV280</td>
<td>BIKE LANE MARKINGS DETAIL</td>
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<tr>
<td>SV281</td>
<td>ADA PARKING DETAIL</td>
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</tbody>
</table>

**400 Series: Sewer Information**

| SV420-4 | CONCRETE SANITARY SEWER MANHOLE | 06/2021 |
| SV420-5 | MANHOLE OVER EXISTING LINE | 06/2021 |
| SV421 | OFFSET MANHOLE 8” TO 30” PIPE | 06/2021 |
| SV422 | MANHOLE FRAME AND COVER ADJUSTMENT | 06/2021 |
| SV428 | MANHOLE STEPS DETAIL | 06/2021 |
| SV440 | NEW SEWER BUILDING CONNECTIONS | 06/2021 |
| SV441 | SEWER CLEANOUT AT TERMINATION OF SEWER MAINLINE | 06/2021 |
| SV442 | BACKFLOW ASSEMBLY SEWER CONNECTION, FORMER SV247 | 06/2021 |

**500 Series: Irrigation and Storm Drain Information**

| SV556-1 | HANDPLACED GROUTED RIP RAP EMBANKMENT PROTECTION/ ARMOR, FORMER SV101 | 06/2021 |
| SV556-2 | DUMPED RIP RAP EMBANKMENT PROTECTION/ ARMOR, FORMER SV102 | 06/2021 |
| SV561 | IRRIGATION TRENCHING AND PIPE INSTALLATION DETAIL | 06/2021 |
NOTE:
SIGN SHALL MEET MUTCD STANDARDS.

FHWA SERIES C 2000 STANDARD ALPHABETS
W6-1b

COLORS:
LEGEND - BLACK
BACKGROUND - YELLOW (RETROREFLECTIVE)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
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<tbody>
<tr>
<td>24</td>
<td>.375</td>
<td>.625</td>
<td>C</td>
<td>2</td>
<td>1.361</td>
<td>8.286</td>
<td>5.504</td>
<td>1.5</td>
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<tr>
<td>30</td>
<td>.5</td>
<td>.75</td>
<td>C</td>
<td>2</td>
<td>1.721</td>
<td>10.367</td>
<td>6.885</td>
<td>1.875</td>
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<tr>
<td>36</td>
<td>.625</td>
<td>.875</td>
<td>C</td>
<td>3</td>
<td>2.081</td>
<td>12.449</td>
<td>8.266</td>
<td>2.25</td>
<td></td>
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<tr>
<td>48</td>
<td>.75</td>
<td>1.25</td>
<td>C</td>
<td>4</td>
<td>2.802</td>
<td>16.592</td>
<td>11.028</td>
<td>3</td>
<td></td>
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</tbody>
</table>
NOTE:
TREE/SHRUBS/PLANTS SHALL BE TRIMMED TO NEAREST INTERSECTING BRANCH.
1. PERFORATED POSTS SHALL BE SQUARE TUBE FORMED FROM 0.105 U.S.S. GAUGE A.S.T.M. A-366 COLD ROLLED CARBON STEEL. THE SQUARE TUBES SHALL BE WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL. THE POSTS SHALL BE EXTERNALLY SCARIFIED TO AGREE WITH STD. CORNER RADIUS OF 5/32" TO 1/64".
2. PERFORATED POSTS SHALL BE GALVANIZED TO CONFORM TO A.S.T.M. A-525. COATING DESIGNATION G-90.
3. ALL HARDWARE SHALL CONFORM TO A.S.T.M. A-307 CLASS A.
4. ALL HARDWARE SHALL BE GALVANIZED TO CONFORM TO A.S.T.M. A-153 OR CADMIUM PLATED TO CONFORM TO A.S.T.M. A-165.
5. ALL CONCRETE FOR SIGN FOUNDATION SHALL BE CLASS "A" CONC. PER MAG STD. SECT. 725 & CURE FOR A MINIMUM OF 72 HOURS PRIOR TO SIGN INSTALLATION.
6. FOUNDATION WILL BE CONSTRUCTED WITH A 2" X 2" X 30" ANCHOR POST & 2-1/4" X 2-1/4" X 18" BASE POST WRAPPED AND SEALED WITH DUCT TAPE.
7. POST FOUNDATIONS SHALL BE PERPENDICULAR TO THE ROADWAY.
8. BOLT WITH NUT AND LOCK WASHER TO BE 7/16"X3" GALVANIZED & SHALL BE FASTENED NO HIGHER THAN 1-1/2" FROM THE TOP OF THE BASE AND ANCHOR POSTS.
9. BASE ASSEMBLY SHALL NOT EXCEED 4" ABOVE FINAL GRADE.
10. BOLT, FLAT WASHER, LOCK WASHER AND NUT ASSEMBLY SHALL BE PERPENDICULAR TO MAJOR OR CRITICAL TRAFFIC.
AT STREET INTERSECTIONS INSTALL DOUBLE FACED EXTRUDED SIGNS FOR EACH STREET NAME. VANDAL-PROOF HARDWARE FOR FASTENING AS APPROVED BY THE CITY OF SIERRA VISTA DEPARTMENT OF PUBLIC WORKS.

SIGN BRACKET CROSS PIECES

FOR POST INSTALLATION SEE DETAIL ON THIS SHEET & SIERRA VISTA DETAIL SV117

SQUARE POST MOUNT/CAPS FOR EXTRUDED SIGNS

PLACE EDGE OF SIGN 2' MIN. FROM SIDEWALK

7'-0" MINIMUM

SEE SIERRA VISTA DETAIL SV117 FOR FOUNDATION DETAILS

30' MAX

5'

SIDEWALK

R

2'-0"

CURB

TYPICAL SUBDIVISION PLACEMENT DETAIL
8' - 10' SHARED-USE PATH

3' MIN.

4' MIN.

4:1 CUT

4:1 FILL

SIGN BASE

SEE SIERRA VISTA DETAIL SV117

R5-3

SHARED USE PATH

NO MOTOR VEHICLES

SIGN
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

EXISTING PAVEMENT
EXISTING S/W

2’ MIN.
7’ MIN.

FOR SIGN BASE
SEE SIERRA VISTA DETAIL SV117.
NOTES:
1. SURVEY MARKER WITH FRAME SHALL BE USED AT INTERSECTIONS OF MAJOR STREETS & COLLECTOR STREETS, AND AT OTHER SPECIAL POINTS AS SHOWN ON PLANS. SEE MAG STD. DETAIL 120, TYPE "A".

2. SURVEY MARKER WITHOUT FRAME SHALL BE USED AT INTERSECTION OF LOCAL STREET CENTERLINES (EXCEPT WHERE TYPE "A" IS SPECIFIED), AT P.C.'s AND P.T.'s OF CURVES, AND AT OTHER POINTS AS SHOWN ON PLANS. SEE TYPE "B" BELOW.

3. LETTERS TO BE APPROX. 1/32" WIDE & 1/32" DEEP.

4. USE STANDARD WROUGHT IRON WASHER 3" O.D. X 11/64" THICK WITH 1-3/8" HOLE.

5. CAP TO BE CONSTRUCTED OF RED BRASS OR BRONZE.
NOTES:

1. GATES SHALL HAVE 180' OPEN CLEARANCE WITH CANE BOLTS & CANE BOLT HOLES TO MAINTAIN OPEN POSITION.
2. ALL CONCRETE SHALL BE CLASS "A" (3000 PSI) PER MAG STD. SECT. 725.
3. ALL ABC SHALL BE PER SIERRA VISTA DETAIL SV200-4.

CITY OF SIERRA VISTA
8 YARD DUMPSTER PAD DETAIL

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775
NOTES:
1. GATES SHALL MAINTAIN OPEN CLEARANCE PER DETAIL WITH CANE BOLTS & CANE BOLT HOLES TO MAINTAIN OPEN POSITION.
2. ALL CONCRETE SHALL BE CLASS "A" (3000 PSI) PER MAG STD. SECT. 725.
3. ALL ABC SHALL BE PER SIERRA VISTA DETAIL SV200-4.
NOTES:
1. ALL ASPHALT PATCHES TO BE CRACKED SEALED.
2. PREPARE CRACKS FOR SEALING AND FILLING ACCORDING TO MAG STD.
   SECT. 337. FOLLOW MANUFACTURER’S RECOMMENDATIONS FOR SEALING
   AND FILLING CRACKS.
3. FORCE CRACK REPAIR MATERIAL INTO CRACKS TO ENSURE ADHESION TO
   EXISTING SURFACE.
4. CRACKS LARGER THAN 1½” SHALL BE "PATCHED" PER PROJECT ENGINEER.

CRACK SEALING
CRACKS LESS THAN 1/" 

CRACK SEALING
CRACKS FROM 1/" TO 1½"
"T TOP" TRENCH REPAIR

(USE FOR TRANSVERSE TRENCH REPAIRS, SEE SIERRA VISTA DETAIL SV200–2)

NOTES:

1. PAVEMENT MATCHING, BASE COURSES AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD. SECT. 336 UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.

2. TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH MAG STD. SECT. 601. NATIVE BACKFILL SHALL ONLY BE USED WITH AGENCY APPROVAL.

3. CLSM SHALL BE 1/2–SACK OR 1–SACK PER MAG STD. SECTIONS 604 AND 728.

4. MATERIAL FOR FINAL BACKFILL AND BASE (IF APPlicable) SHALL BE AS NOTED HEREIN UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.

5. FINAL BACKFILL SHALL BE CLSM FOR TRENCH DEPTHS GREATER THAN 4 FEET UNLESS A SAFE (OHSA COMPLIANT) WORKING SPACE AT LEAST 30" WIDE IS PROVIDED TO CONDUCT COMPACTION TESTING.

6. PROVIDE MINIMUM 12" WIDE SHELF AS SHOWN IN "T–TOP" TRENCH REPAIR AT ENDS OF TYPE "A" TRENCH REPAIR EXCEPT WHERE EDGE ABUTS EXISTING CONCRETE.

7. USE "T–TOP" PAVEMENT REPLACEMENT WHERE A TRENCH IS NOT PARALLEL TO A STREET OR GOES THROUGH AN INTERSECTION.

8. THE JOINT LOCATION OR JOINT CONFIGURATION MAY VARY FROM THAT SHOWN TO ELIMINATE REMNANTS, TO ELIMINATE FULL DEPTH SAWCUT JOINTS FROM BEING LOCATED WITHIN A WHEEL PATH AS REQUIRED BY MAG STD. SECT. 336, OR WHEN AN OFFSET JOINT IS CONSTRUCTED.

9. SAWCUT OR MILL EDGE AND APPLY TACK COAT. FOR PERMANENT PAVEMENT, APPLY 2–1/2" WIDE MAG STD. SECT. 337.2.1 COMPLIANT JOINT SEALANT AS REQUIRED BY AGENCY – SEE SIERRA VISTA DETAIL SV200–2.

10. EXPOSED COPPER OR POLYETHYLENE WATER PIPE UP TO 2" IN DIAMETER IN TRENCHES TO BE BACKFILLED WITH CLSM SHALL BE WRAPPED WITH MINIMUM 3/4" THICK PREFORMED PIPE-COVERING FOAM INSULATION BEFORE PLACING CLSM.

11. ABC WITHIN 24" BELOW PAVEMENT SHALL BE COMPACTED TO 100% STANDARD DRY DENSITY.
TRENCH CROSS-SECTION DETAIL

TRANSVERSE TRENCH
(TRENCH IN PAVEMENT NOT PARALLEL TO TRAFFIC)

EXISTING S/W TYP.
TRENCH
\\ OF STREET
EXISTING PAVEMENT
EXISTING C/G TYP.

LONGITUDINAL TRENCH
(TRENCH IN PAVEMENT PARALLEL TO TRAFFIC)

EXISTING S/W TYP.
TRENCH
\\ OF STREET
EXISTING PAVEMENT
EXISTING C/G TYP.

NOTES:
1. SEE MAG STD. SECT. 601 FOR TRENCH EXCAVATION, BACKFILLING AND COMPACTION REQUIREMENTS.
2. SEE SIERRA VISTA DETAIL SV200–3 FOR DETAILED TRENCH REPAIR REQUIREMENTS FOR TRENCH TYPES NOTED HEREIN.
3. SEE SIERRA VISTA DETAIL SV211 FOR REQUIREMENTS REGARDING THE USE OF PLATING TRANSVERSE TRENCHES. USE OF STEEL PLATES SHALL NOT EXCEED 72 HOURS AFTER COMPLETION OF BACKFILL AND PRIOR TO FINAL PATCHING.
4. IF LONGITUDINAL TRENCH IS LOCATED WITHIN THE WHEEL PATH OF THE ROADWAY, THE DEPARTMENT SHALL DETERMINE AN APPROPRIATE ASPHALT PATCH WIDTH.

MODIFIED MAG DETAIL 200–2

CITY OF SIERRA VISTA
TRENCH BACKFILL AND SURFACE REPLACEMENT DETAIL

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520–458–5775

Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.
TRENCH REQUIREMENTS:
1. A WIDER TRENCH SHALL BE ALLOWED IF A PULLBOX IS USED AS MEANS FOR TRENCH SHORING.
2. FOR ALL EXCAVATION AND TRENCHES, THE CONTRACTOR SHALL ADHERE STRICTLY WITH OSHA CFR PART 1926 SUBPART P.
3. TRENCH EXCAVATIONS OVER 20-FEET IN DEPTH SHALL HAVE AN APPROVED SHORING PLAN, STAMPED BY A REGISTERED PROFESSIONAL ENGINEER TO BE SUBMITTED BY THE CONTRACTOR, FOR APPROVAL BY THE CITY OF SIERRA VISTA.

AGGREGATE BASE
- AGGREGATE BASE PER SIERRA VISTA DETAIL SV200-4.
- RECLAIMED CONCRETE MATERIAL (RCM) IN ACCORDANCE WITH MAG STD. SEC. 701.4 MAY BE SUBSTITUTED FOR AGGREGATE BASE.

NON SHRINK SLURRY
- ONE SACK TYPE II PORTLAND CONCRETE CEMENT PER CUBIC YARD.
- TYPE "B" SELECT AGGREGATE PER MAG STD. SEC. 702, OR AGGREGATE BASE COURSE, OR RECLAIMED CONCRETE MATERIAL PER MAG STD. SEC. 701.4 AND 702.

ALLOWABLE BEDDING & SHADING SAND OR CHAT
- 100% PASSING 1/2" SIEVE.
- SUM OF PI PLUS 200 SIEVE SHALL BE LESS THAN 23.

ALLOWABLE TRENCH BACKFILL MATERIALS
1. NATIVE MATERIAL SHALL BE USED WHERE FOUND SUITABLE BY A GEO TECHNICAL REPORT. A GEO TECHNICAL REPORT SHALL BE SUBMITTED TO THE CITY BY THE OWNER, FOR APPROVAL PRIOR TO CONSTRUCTION.
2. MATERIAL SPECIFICATIONS AND TESTING SHALL CONFORM TO SECTION 151.08.011 OF THE SIERRA VISTA DEVELOPMENT CODE.
3. AT A MINIMUM, THE MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. MATERIAL IS FREE OF BROKEN CONCRETE, BROKEN PAVEMENT, RUBBISH, CHUNKS OF CLAY, WOOD, ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL.
   b. MATERIAL DOES NOT CONTAIN ROCK OR STONES LARGER THAN THREE INCHES.
4. ALL MANHOLE EXCAVATIONS SHALL BE BACKFILLED FROM TRENCH TO TRENCH WITH 100% AS COMPACTED TO 95% MAX. DRY DENSITY.

<table>
<thead>
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<th>BACKFILL REQUIREMENTS</th>
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<tr>
<td>TRENCHING IN RIGHT OF WAY OUTSIDE ROADWAY PRISM OR IN UNPAVED ALLEY</td>
</tr>
<tr>
<td>TRENCHING IN EXISTING ROADWAY ALLEY</td>
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<tr>
<td>TRENCHING IN PROPOSED ROADWAY ALLEY</td>
</tr>
<tr>
<td>ALLOWABLE BACKFILL MATERIALS</td>
</tr>
</tbody>
</table>

NATIVE MATERIAL WITHOUT FINES REQUIREMENT
- X | 95%
- NATIVE MATERIAL WITH FINES REQUIREMENT
- X | 95%
- AGGREGATE BASE
- X | 95%
- NON SHRINK SLURRY
- X | NA

NOTES:
1. 95% EXCEPT FOR THE TOP 2' SHALL BE 100%
2. PAVEMENT REPLACEMENT TO BE T-TOP PER SIERRA VISTA DETAIL SV200-1-A.

CITY OF SIERRA VISTA
STORM DRAIN/SEWER/UTILITY
BACKFILL AND BEDDING DETAIL

REVISED: 06/2021  SCALE: NTS
DETAIL NO: SV200-3
## AGGREGATE BASE COURSE

702.2.1 REPLACE TABLE 702–1 OF THE MAG STANDARD CONSTRUCTION SPECIFICATIONS WITH THE FOLLOWING:

### REVISED TABLE 702–1

**Sieve Analysis Test Methods AASHTO T–27, T–11**

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Accumulative Percentage Passing Sieve, by Weight</th>
<th>Select Material</th>
<th>Aggregate Base Course</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Type A</td>
<td>Type B</td>
</tr>
<tr>
<td>3 IN.</td>
<td>100</td>
<td></td>
<td></td>
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<tr>
<td>1–1/2 IN.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 IN.</td>
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<td></td>
<td></td>
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<tr>
<td>NO. 4</td>
<td>30–75</td>
<td>30–70</td>
<td>32–65</td>
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<td>NO. 8</td>
<td>20–60</td>
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<td>NO. 200</td>
<td>0–12</td>
<td>0–12</td>
<td>3–12</td>
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### Plasticity Index

Test Methods AASHTO T–89 Method A, T–90, T146 Method A

| Maximum Allowable Value | 5       | 5       | 5       |

**Fractured Face, One Face**

Test Method ARIZ 212, Percent by Weight of the Material Retained on a #4 Sieve

| Minimum Required Value | 50      | 50      | 50      |

**Resistance to Degradation and Abrasion by the Los Angeles Abrasion Machine**

Test Method AASHTO T–96, Percent Loss by Weight

| Maximum Allowable Value at 100 Revolutions | 10      | 10      | 10      |
| Maximum Allowable Value at 500 Revolutions | 45      | 45      | 45      |

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**CITY OF SIERRA VISTA**

1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

**Sierra Vista**

EXTRAORDINARY SKIES.
UNCOMMON GROUND.

**CITY OF SIERRA VISTA**

BACKFILL AND BEDDING TABLE

**REVISED:** 05/2021

**SCALE:** 1/50

**DETAILED NO.:** SV200–4
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

ROAD PVMNT. SECTION NO.1
ARTERIAL & COLLECTOR STREETS

3" OF NEW AC
COMPACTED TO
95% MAX. DENSITY

10" OF NEW AB
COMPACTED TO
100% MAX. DRY
DENSITY

SUBGRADE
COMPACCIÓN TO
95% MAX. DRY
DENSITY

ROAD PVMNT. SECTION NO.2
LOCAL STREETS

2" OF NEW AC
COMPACTED TO
95% MAX. DENSITY

6" OF NEW AB
COMPACTED TO
100% MAX. DRY
DENSITY

SUBGRADE
COMPACCIÓN TO
95% MAX. DRY
DENSITY

ROAD PVMNT. SECTION NO.3
PARKING LOT

2" OF NEW AC
COMPACTED TO
95% MAX. DENSITY

4" OF NEW AB
COMPACTED TO
100% MAX. DRY
DENSITY

SUBGRADE
COMPACCIÓN TO
95% MAX. DRY
DENSITY

ROAD PVMNT. SECTION NO.4
SHARED-USE PATH

2" OF NEW AC
COMPACTED TO
95% MAX. DENSITY

4" OF NEW AB
COMPACTED TO
100% MAX. DRY
DENSITY

SUBGRADE
COMPACCIÓN TO
95% MAX. DRY
DENSITY
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

M10 FLATHEAD STAINLESS STEEL CAP SCREW (6 EACH MIN.)

EXPANSION JOINT

SEE NOTE 1

SEE NOTE 5

EXPANSION JOINT

SECTION 'A-A'

B

A = 1'

1/2''

2''

SEE DETAIL C

2'' X 2'' X 1/8'' ANGLE BOTH SIDES

STEEL DIAMOND PLATE A-36

4''

'\( B \)'

SEE NOTE 2

4''

16''

EXPANSION JOINT

NOTE:

1. ANGLE EQUALS 45° UNLESS SPECIFIED ON PLAN.
   ANGLE IN DIRECTION OF FLOW.
2. DIMENSION 'B' EQUALS 'A' + 2'.
3. ) INDICATES DIRECTION OF FLOW.
4. PAINT STEEL ACCORDING TO MAG STD. SECT. 790.
   PAINT NUMBER 1-A OR 1-B.
5. 'R' EQUALS 1'' UNLESS OTHERWISE DIRECTED.
6. 'H' EQUALS 6''.
7. FOR ROLL CURB AND GUTTER, USE 2' TRANSITIONS TO VERTICAL CURB.
8. ALL CONCRETE SHALL BE CLASS 'A' (3000 PSI) PER MAG SECT. 725 AND INSTALLED PER MAG STD. SECT. 505.

DETAIL C

NO.4 REBAR 4'' LONG 3 EACH SIDE, MIN.

ANGLE BOTH SIDES
2'' X 2'' X 1/8''

SECTION 'B-B'

MODIFIED MAG STD. DETAIL 203
FORMER SIERRA VISTA DETAIL SV206-3

CITY OF SIERRA VISTA SCUPPER DETAIL

CITY OF SIERRA VISTA
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

Sierra Vista
1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

REVISION: 06/2021
SCALE: INTS
DETAIL NO: SV203
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

DETAIL 1
N.T.S.

SECTION A-A
N.T.S.

SECTION B-B
N.T.S.

CONCRETE SCUPPER
SEE DETAIL 2

EXPANSION JOINT
(TYP.)

MATCH A.C. PATHWAY

#4 REINFORCED REBAR
@ 8" O.C.

MATCH A.C. PATHWAY

#4 REINFORCED REBAR
@ 8" O.C.

#4 REINFORCED REBAR
@ 12" O.C.

NEW GROUTED RIP RAP
D50 = 6", T = 20"
PER SIERRA VISTA
DETAIL SV556-1

EXISTING GROUND

48" PROTECTIVE
HANDRAIL PER
SIERRA VISTA
DETAIL SV231-1

48" PROTECTIVE
HANDRAIL PER
SIERRA VISTA
DETAIL SV231-1

2% SLOPE

4" Min

24"

6"

6" Min

12"

6" Min

12.5'

8'

R=6'

R=6'

13'

12'

6'

6'

4" Min

4" Min

3'-9"

3'-9"

12" Min

SEE SIERRA VISTA
DETAIL SV231-1

FORMER SIERRA VISTA DETAIL SV206-2

CITY OF SIERRA VISTA
SHARED-USE PATH CONCRETE SCUPPER DETAIL

CITY OF SIERRA VISTA
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Sierra Vista, AZ 85635
520-458-5775
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

NOTES:

1. USE TYPE 1 PLATE INSTALLATION WHERE POSTED SPEED LIMIT IS LESS THAN 35 MPH. USE TYPE 2 PLATE INSTALLATION WHERE POSTED SPEED LIMIT IS 35 MPH OR GREATER.

2. FOR TYPE 2 PLATE INSTALLATION, THE STEEL PLATE SHALL BE RECESSED BY MILLING INTO THE EXISTING ASPHALT TO SET FLUSH WITH THE SURFACE OF THE EXISTING ASPHALT. FULL DEPTH CUTTING OF PAVEMENT SECTION OUTSIDE OF TRENCH IS NOT PERMITTED. MILLING DEPTH SHALL MATCH THICKNESS OF PLATE. THE GAP BETWEEN THE FIRST OF THE PLATE AND THE ADJACENT EXISTING ASPHALT MUST BE FILLED WITH TEMPORARY ASPHALT.

3. TRENCH WIDTHS ARE BASED ON AN ANALYSIS PER THE 14TH EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES BY AASHTO. AN ASSUMED HALF LOADING OF 12 TONS WITH A 50% IMPACT FACTOR WAS USED. THE AXLE LENGTH IS 6 FEET; THEREFORE THE NUMBER OF WHEELS CARRIED BY A PLATE DEPENDS ON THE ROADWAY WIDTH.

4. STEEL PLATE MUST BE ABLE TO WITHSTAND H-20 TRAFFIC LOADINGS WITHOUT ANY MOVEMENT.

5. PLATES SHALL BE FABRICATED FROM ASTM A36 STEEL (MIN).

6. PLATES SHALL BE SECURED FROM LATERAL MOVEMENT AND VERTICAL VIBRATION (ASSOCIATED NOISE) WHILE IN USE BY TEMPORARY ASPHALT (COLD MIX.)

CITY OF SIERRA VISTA
STANDARD TRENCH PLATING DETAIL
NOTES:
WHEN POTHOLING WITHIN AN EXISTING ARTERIAL PAVEMENT SECTION, 18" OR 24" KEYHOLING IS PREFERRED. SEE TYPE B PAVEMENT REPAIR.

FINAL BACKFILL MATERIAL OPTIONS:
 - IF IN ROADWAY 100% AB
 - ABC PER SIERRA VISTA DETAIL SV200-4
 - ½ -SACK CLSM PER MAG STD. SECTION 728.

HIGHER EXISTING UTILITY(S)

SECTION VIEW

TYPE A PAVEMENT REPAIR

NOTES:
1. DIMENSIONS ARE NOMINAL.
2. EDGES SHALL BE SAW CUT TO A NEAT VERTICAL FACE.
3. PLACE CLSM BACKFILL IN ACCORDANCE WITH MAG STD. SECT. 604.
4. PLACE AGENCY-APPROVED ASPHALT CONCRETE IN MAXIMUM 2" LIFTS.

PLAN VIEW

TACK EDGES 100% COVERAGE

TACK EDGES 100% COVERAGE

TYPE B PAVEMENT REPAIR

NOTES:
1. CUT, REMOVE AND REPLACE PAVEMENT PLUG OR CORING FLUSH WITH AND IN THE ORIGINAL ORIENTATION OF PAVEMENT SURFACE.
2. PLACE BACKFILL ABC PER SIERRA VISTA SV200-4 OR USE ½ SACK CLSM.
3. BONDING MATERIAL SHALL BE A SINGLE COMPONENT CEMENTITIOUS, RAPID HARDENING, HIGH STRENGTH, WATER PROOF BONDING AGENT.

PLAN VIEW

"KEYHOLE" DRILLED/CORED PILOT HOLE

BONDING MATERIAL

PAVEMENT PLUG

ABC COMPACTED 100% OR ½ SACK CLSM.

SECTION B-B

SECTION A-A

NOTES:
1. ALL PATCHES TO BE SEALED AS PER SIERRA VISTA DETAIL SV200.
**VERTICAL CURB AND GUTTER (TYPE A)**

1. All exposed surfaces to be trowel finished except as shown. See Mag Std. Sect. 340.
2. Contraction joint spacing 10’ maximum.
3. Expansion joints as per Mag Std. Sect. 340.
4. Class 'A' (3000 PSI) concrete per Mag Std. Sect. 725.
5. When the adjacent pavement section slopes away from the gutter, the slope of the gutter pan shall match pavement cross slope.

**NOTEs: (TYPE B)**

2. Broom finish all surfaces.
3. Ribbon/depressed curb may slope towards pavement or parkway as indicated on plans.
4. Contraction joint spacing 10’ maximum.
5. Concrete shall be Class 'A' (3000 PSI) per Mag Std. Sect. 725 and install per Mag Std. Sect. 505.

**VERTICAL CURB AND GUTTER (TYPE C)**

2. Broom finish all surfaces.
3. Ribbon/depressed curb may slope towards pavement or parkway as indicated on plans.
4. Contraction joint spacing 10’ maximum.
5. Concrete shall be Class 'A' (3000 PSI) per Mag Std. Sect. 725.

**NOTEs: (TYPE C & D)**

1. All work and materials shall conform to Mag. Sect. 340, 505 and 725.
2. Broom finish to exposed surface.
3. Contraction joint spacing 10’ maximum.
4. Expansion joints as per Mag Std. Sect. 340.
5. Class 'A' (3000 PSI) concrete per Mag Std. Sect. 725.

**CITY OF SIERRA VISTA**

Curb and Gutter Types A, B, C, and D Detail

**MODIFIED MAG DETAIL 220-1**

CITY OF SIERRA VISTA

1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

Sierra Vista
EXTRAORDINARY SKIES
UNCOMMON GROUND.
NOTES:
1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE MAG STD. SECT. 340.
2. CONTRACTION JOINT SPACING 10’ MAXIMUM.
3. EXPANSION JOINTS AS PER MAG STD. SECT. 340.
4. CLASS 'A' (3000 PSI) CONCRETE PER MAG STD. SECT. 725.
5. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE GUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.

CITY OF SIERRA VISTA
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CITY OF SIERRA VISTA
VERTICAL CURB AND GUTTER DETAIL

REVISED: 1/2/2020
SCALE: NTS
DETAIL NO: SV220-1-A
NOTES:
1. ALL WORK AND MATERIALS SHALL CONFORM TO MAG STD. SECT. 340, 505 AND 725.
2. BROOM FINISH TO EXPOSED SURFACE.
3. CONTRACTION JOINT SPACING 10’ MAXIMUM.
4. EXPANSION JOINTS AS PER MAG STD. SECT. 340.
5. CLASS ‘A’ (3000 PSI) CONCRETE PER MAG STD. SECT. 725.

MODIFIED MAG DETAIL 220 (TYPE "C")
NOTES: (CURB AND GUTTER TRANSITIONS)


2. WHERE PROPOSED CONSTRUCTION IS TO BE CONNECTED TO EXISTING CURB AND GUTTER, THE TRANSITION SHALL BE INDICATED ON PLANS.

3. CLASS ‘A’ (3000 PSI) CONCRETE PER MAG STD. SECT. 725.

4. TRANSITION BETWEEN TYPICAL SECTIONS SHALL BE ACCOMPLISHED BY THE USE OF DIRECT STRAIGHT LINE TRANSITIONS OF THE FLOW LINE AND OTHER SURFACE FEATURES.

NOTES: (INTEGRAL ROLL CURB, GUTTER AND SIDEWALK)

1. CONCRETE TO BE MONOLITHIC POUR, EXPOSED SURFACE FINISH AS PER SIDEWALK AND GUTTER DETAIL.

2. CONTRACTION JOINT SPACING 5’ MAXIMUM.

3. EXPANSION JOINTS PER MAG STD. SECT. 340.

4. CLASS ‘A’ (3000 PSI) CONCRETE PER MAG STD. SECT. 725.

MODIFIED MAG DETAIL 221

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

CITY OF SIERRA VISTA
CURB AND GUTTER TRANSITION AND INTEGRAL ROLL CURB,
GUTTER AND SIDEWALK

REVISED: 08/2021
SCALE: NTS
DETAIL NO: SV221
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

TABLE 1

<table>
<thead>
<tr>
<th>TABLE 1.</th>
<th>CONCRETE THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENTIAL DRIVEWAY</td>
<td>5&quot;</td>
</tr>
<tr>
<td>STANDARD SIDEWALK</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO MAG STD. SECT. 340.
2. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, PER MAG STD. SECT. 729.
3. LARGE AGGREGATE, IN CONTRACTION JOINT, SHALL BE SEPARATED TO A DEPTH OF 1", FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINT 50' MAXIMUM SPACING PER MAG STD. SECT. 340.
5. CLASS 'A' (3000 PSI) CONCRETE CONSTRUCTION AS PER MAG STD. SECT. 725.

Curb and gutter
Contraction joint shall match sidewalk joint

Score mark
(1/2" min. depth)
Every 4' or 5' to match curb joings

Sidewalk (1)
Trowel and use light hair broom finish

3" of new ABC compacted to 95%
max. dry density

Sub-grade compaction
to 95% max. dry density

Slope 2% max
(left to top curb)

1" (min.)

R=1/4"
(max.)

1/2"

R=1/4"
(max.)

R=1/4"
(max.)

See Note 3

Expansion joint

Contraction joint

Curb and gutter
Contraction joint shall match sidewalk joint

As shown on plans

See Table 1

Property line

Varies

Between contraction joints

City of Sierra Vista
1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

City of Sierra Vista
Extraordinary Skies.
Uncommon Ground.

Detail No: SV230

Revision: 08/2021
Scale: 1"=1'-0"
Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

2' SHOULDER

SHARED-USE PATH
-10'-

SLOPE 2% (MAX)
TO LEFT UNLESS NOTED ON PLAN SHEETS

FINAL GRADE BOTH EDGES OF
SHARED-USE PATH WITH 95%
COMPACTED SUBGRADE MATERIAL
(TYP.)

MATCH EXISTING
OR 3:1 CUT/FILL (MAX)

3:1 (MAX)

4" MIN. THICK ABC COMPACTED
TO A MIN. 100% DRY DENSITY.

2" AC-COMPACT
TO 100% DENSITY.

SUBGRADE COMPACTED TO
A MIN. OF 95% MAX DRY
DENSITY.

NOTE:
MAXIMUM LONGITUDINAL SLOPE SHALL
NOT EXCEED A 20:1 RATIO.
NOTES:
1. HANDRAIL FOOTING LOCATIONS TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATING HANDRAIL.
NOTES:

1. PAVEMENT MARKINGS AND SYMBOLS MAY BE WHITE STENCIL OR PREFORMED THERMOPLASTIC.
2. CENTER PAVEMENT SYMBOLS AND MARKINGS BETWEEN THE EDGE OF PAVEMENT.
NOTES:
1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIAL. GUTTER ELEV. = 0.
2. ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.
3. ALL ADA RAMPS SHALL HAVE DETECTABLE TRUNCATED DOME WARNING PAVERS PER DETAIL SV263.
4. ROUGH BROOM FINISH (TYP).
5. SUBGRADE PREPARATION PER MAG STD. SECT. 301.
6. 3" ABC COMPACTED TO 95% DENSITY. SEE SIERRA VISTA DETAIL SV200–4.
7. 1" OF BEDDING SAND BETWEEN NEW PAVERS AND CONCRETE.
8. USE CONTROL ELEVATIONS ASSOCIATED WITH CURB HEIGHT AT SIDEWALKS.
9. CONSTRUCT CURB PERPENDICULAR TO RADIUS OF CURB RETURN.
10. SIDEWALK WIDTHS ARE 5 FT UNLESS OTHERWISE INDICATED ON PLANS.

T.C. ELEV. = S/W CE (TYP)

CONTROL ELEVATIONS
SEE NOTES 1 AND 3

<table>
<thead>
<tr>
<th>CONTROL ELEV.</th>
<th>4&quot; Rolled Curb</th>
<th>6&quot; Vertical Curb</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE1</td>
<td>4&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>CE2</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>CE3</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>S/W CE</td>
<td>2&quot;/7/8&quot;</td>
<td>6&quot;/7/8&quot;</td>
</tr>
<tr>
<td>LANDING CE</td>
<td>2&quot;/1/2&quot;</td>
<td>3&quot;/1/2&quot;</td>
</tr>
</tbody>
</table>

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520–458–5775
NOTES:

1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALY. GUTTER ELEV.=0.

2. ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.

3. ALL ADA RAMPS SHALL HAVE DETECTABLE TRUNCATED DOME WARNING PAVERS PER SIERRA VISTA DETAIL SV263.

4. ROUGH BROOM FINISH (TYP).

5. SUBGRADE PREPARATION PER MAG STD. SECT. 301.

6. 3" ABC COMPACTED TO 95% DENSITY. SEE SIERRA VISTA DETAIL SV200-4.

7. 1" OF BEDDING SAND BETWEEN NEW PAVERS AND CONCRETE.

8. SAWCUT AND REMOVE TO NEAREST JOINT.

CITY OF SIERRA VISTA
EXISTING ADA RAMP MODIFICATION WITH TRUNCATED DOME PAVERS
NOTES:

1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADially. GUTTER ELEV. = 0.

2. ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.

3. ALL ADA RAMPS SHALL HAVE DETECTABLE TRUNCATED DOME WARNING PAVERS PER SIERRA VISTA DETAIL SV263.

4. ROUGH BROOM FINISH (TYP).

5. SUBGRADE PREPARATION PER MAG STD. SECT. 301.

6. 3" ABC COMPACTED TO 95% DENSITY. SEE SIERRA VISTA DETAIL SV200-4.

7. 1" OF BEDDING SAND BETWEEN NEW PAVERS AND CONCRETE.

8. USE CONTROL ELEVATIONS ASSOCIATED WITH CURB HEIGHT AT SIDEWALKS.

<table>
<thead>
<tr>
<th>CURB HEIGHT</th>
<th>D (MIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>
NOTES:
1. ALL CONCRETE TO BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.
2. EITHER CONSTRUCTION JOINT OR CONTRACTION JOINT IS REQUIRED AT STREET CENTERLINE.
3. A SEPARATE CONCRETE PAD IS REQUIRED AT ALL EXPANSION JOINTS AND ALL CONSTRUCTION JOINTS.
4. VALLEY GUTTER AND SPANDREL TO BE INSTALLED BEFORE ASPHALT IS PLACED AND CURED FOR A MINIMUM OF 7 DAYS.
5. EXPANSION JOINTS SHALL CONFORM TO MAG STD. SECT. 340.
6. CONTRACTION JOINTS SHALL SEPARATE LARGE AGGREGATE TO EITHER SIDE JOINT FOR A MINIMUM DEPTH OF 2 1/2 INCHES. THE FINISHED JOINT SHALL HAVE 1/4 INCH MAXIMUM RADIUS AT THE TOP SURFACE AND BE A MINIMUM OF 3/4 INCHES OF DEPTH.
7. CURB AND SPANDREL TO BE POURED MONOLITHICALLY.
SIERRA VISTA
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

NOTES:

1. HEIGHT OF BACK OF ENTRANCE SHALL BE EQUAL TO OR GREATER THAN THE HEIGHT OF THE BACK OF THE ADJACENT SIDEWALK.
2. ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.
3. ROUGH BROOM FINISH (TYP).
4. SUBGRADE PREPARATION PER MAG STD. SECT. 301.
5. 3" ABC COMPACTED TO 95% DENSITY. SEE SIERRA VISTA DETAIL SV200–4.
6. 1" OF BEDDING SAND BETWEEN NEW PAVERS AND CONCRETE.
7. EXPANSION JOINT THROUGH CURB AND GUTTER. EXPANSION JOINT FILLER SHALL BE 1/4 INCH BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM 0–1751.
8. ONLY "COMMERCIAL" DRIVEWAYS/ALLEYWAYS SHALL HAVE ADA DETECTABLE TRUNCATED DOME WARNING PAVERS PER SIERRA VISTA DETAIL SV263.
9. DRIVEWAY WINGS ARE NOT NECESSARY FOR 4" ROLLED CURB. RESIDENTIAL DRIVEWAYS WHERE 4" ROLLED CURB EXIST; SEE SIERRA VISTA DETAIL SV262–1.

MATCH FLOWLINE

SECTION A–A

SEE TABLE FOR DRIVEWAY DEPTH

SECTION B–B

4" TYP

3" TYP

4" MIN

24" MIN

SIDEWALK

DRIVEWAY

FOR DRIVEWAY WIDTH

5'

MIN.

SEE TABLE

FLOW LINE OF GUTTER

TOP OF CURB

LIP OF GUTTER

TRANSITION CURB

DEPRESSED CURB

EXPANSION JOINT REQUIRED

TRANSITION CURB

5 DEGREE SLOPE

12:1 MAX.

12:1 MAX.

12:1 MAX.

RESIDENTIAL DRIVEWAY

PLAN

COMMERCIAL DRIVEWAY

5' MIN.

5'

BOTH SIDES

BOTH SIDES

SEE TABLE FOR DRIVEWAY DEPTH

PROVIDE CONTRACTION JOINT AT 5' INTERVALS

ISO VIEW

EXPANSION JOINT REQUIRED

COMBINED RESIDENTIAL/COMMERCIAL ALLEYWAY AND DRIVEWAY ENTRANCE

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520–458–5775

REVISED: 06/2021
SCALE: INCHES

DETAIL NO: SV262
NOTES:
1. REPLACE SIDEWALK IF DAMAGE OCCURS DURING CONSTRUCTION ACTIVITIES.
2. ALL CONCRETE SHALL BE PER MAG STD. SECT. 725, CLASS "A" (3000 PSI.)
3. CONSTRUCTION SHALL CONFORM TO MAG STD. SECT. 340.

SECTION A-A

CITY OF SIERRA VISTA
DRIVEWAY DETAIL WITH ROLLED CURB

Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.
NOTES:
1. DETECTABLE WARNING PAVERS
   4" X 8" X 2-1/4" RED IN COLOR.
2. PAVERS TO BE LAID IN HERRINGBONE OR
   RUNNING BOND PATTERN.
NOTES:

1. EDGE LINE STRIPE SHALL BE 4" WIDE WHITE EXTRUDED THERMOPLASTIC.
2. PAVEMENT MARKINGS AND SYMBOLS MAY BE STENCIL OR PREFORMED THERMOPLASTIC.
3. CENTER PAVEMENT SYMBOLS AND MARKINGS BETWEEN EDGE LINE STRIPE AND EDGE OF PAVEMENT.
SHAPE INVERT CHANNELS TO PROVIDE SMOOTH TRANSITION OF FLOW

NEW PVC PIPE

EXISTING SEWER MAIN

NEW MANHOLE RISER

NEW MANHOLE BASE

STEP0S REQUIRED
SEE SIERRA VISTA DETAILS SV420-4 & SV428.

PLAN VIEW

TOP OF FINISHED BENCH

SLOPE BENCHES TO INVERT

CEMENT MORTAR

NEW FLOW

EXISTING SEWER MAIN

NEW MANHOLE RISER

USE BUTYL RUBBER MASTIC JOINT SEALANT ON ALL JOINTS; EXCEPT TOP ADJUSTMENT RINGS

CONSTRUCT ROUGH BASE AND BENCHES WITH EXISTING MAIN INTACT

AFTER COMPLETION OF ROUGH BASE AND BENCHES, CUT EXPOSED SECTIONS OF PIPE AND COMPLETE CONSTRUCTION OF THE MANHOLE IN ACCORDANCE WITH THE APPROPRIATE STANDARD DETAILS.

NEW MANHOLE BASE SHALL BE PLACED ON UNDISTURBED EARTH OR COMPACTED (95%) SELECT MATERIAL

MASONRY BLOCK SUPPORT (AS REQUIRED)

SECTION A-A
OFFSET MANHOLE 8" TO 30" PIPE

PIECE SIZE AND ELEVATIONS AS SHOWN ON PLANS

MANHOLE STEPS
SEE SIERRA VISTA DETAILS SV420-4 & SV428

48" I.D. FOR 8"-14" PIPE
60" I.D. FOR 15"-30" PIPE

CONCRETE BASE SHALL BE PER MAG STD. DETAIL 420-3. ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.

CEMENT MORTAR

8" IF M.H. IS 13' OR LESS
12" IF M.H. IS OVER 13'

3" MIN
5" MAX

TROWEL FINISH SMOOTH

PRECAST MANHOLE
PER MAG SECT. 625, BRICK MANHOLES NOT ALLOWED

SEE SIERRA VISTA DETAIL SV428

ADJUST COVER
SEE SIERRA VISTA DETAIL SV422

24" OR 30" FRAME & COVER PER MAG STD. DETAIL 423 & 424

COMBINED CURB AND GUTTER

PROVIDE PRECAST RINGS NOT TO EXCEED 12" EACH

4' MIN VARIABLE

DIA PER PLAN

24" MAX

4" TYP

24" MAX
NOTES:

1. EXISTING BRICK MANHOLES AND BASES SHALL BE REPLACED WITH NEW CONCRETE MANHOLES. NO NEW CONNECTION SHALL BE MADE TO AN EXISTING BRICK MANHOLE. EXISTING BRICK MANHOLES SHALL NOT BE ADJUSTED TO A NEW FINISH GRADE. ANY EXISTING BRICK MANHOLES THAT NEED TO BE ADJUSTED TO GRADE SHALL BE COMPLETELY REPLACED.

2. ANY MANHOLES THAT ARE LOCATED IN AREAS THAT ARE TEMPORARILY UNEPVED SHALL BE RAISED TO AT LEAST ONE FOOT ABOVE THE HIGHEST ADJACENT GRADE ANTICIPATED. ALL MANHOLE BARRELS OR ADJUSTMENT RINGS USED TO RAISE THE MANHOLE SHALL BE SEALED WITH MASTIC OR GROUT (AS SPECIFIED) AS IF THE INSTALLATION WERE TO BE PERMANENT. MANHOLES ARE TO BE LOWERED ONLY IN ANTICIPATION OF PAVING.

3. ANY MANHOLES THAT ARE LOCATED IN AREAS THAT WILL NOT BE PAVED SHALL BE RAISED TO AT LEAST ONE FOOT ABOVE THE HIGHEST ADJACENT GRADE. A CONCRETE COLLAR SHALL BE PLACED AROUND THE EXPOSED PORTIONS OF THE MANHOLE BARREL. THICKNESS OF THE CONCRETE COLLAR TO BE AT LEAST ONE FOOT (MEASURED PERPENDICULAR TO THE BARREL).

4. CONTRACTORS SHALL ADJUST ALL MANHOLE RINGS AND COVERS, INCLUDING MANHOLES OUTSIDE OF THE PAVEMENT. GROUT SHALL BE USED BETWEEN FRAME AND ADJUSTING RINGS TO ACHIEVE WATER TIGHTNESS.

CONCRETE COLLAR ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725.

1/4" 2-1/8" 1-5/8" 1-3/4" 3/8" 1-1/8" VARYING

2-1/4" 1/4" 1-7/16"

(2) NO. 2 HOOPS FOR 4" RING TIED WITH NO. 4 A.S. & W. GAUGE WIRE. 6" & 8" RING REQUIRE (4) NO. 2 HOOPS.
NOTES:
1. STEPS SHALL BE PLACED INTO WET CONCRETE AS SET.
2. POLYPROPYLENE MUST MEET REQUIREMENTS OF A.S.T.M. 4101, TYPE II, GRADE 16906.

POLYPROPYLENE MANHOLE STEP

CAST IRON MANHOLE STEP

NOTES:
1. ALL DIMENSIONS ARE MINIMUM EXCEPT WHERE NOTED.
2. CASTING AS PER MAG STD. SECT. 787.

POLYPROPYLENE PLASTIC

NO. 3 STEEL ROD
NP. A.S.T.M A-615M

Sierra Vista
EXTRAORDINARY SKIES.
UNCOMMON GROUND.

Sierra Vista
1011 North Coronado Drive
Sierra Vista, AZ 85635
520-458-5775

CITY OF SIERRA VISTA
MANHOLE STEPS DETAIL

DETAIL NO: SV428
MINIMUM FREQUENCY OF TESTS FOR TRENCH BACKFILL REQUIRED
FOR PUBLIC WORK PROJECTS IN THE CITY OF SIERRA VISTA.
(SEE THE CITY OF SIERRA VISTA DEVELOPMENT CODE 151.08.0111 & SIERRA VISTA DETAIL SV200–3)

OUTSIDE A STREET PRISM (PUBLIC UTILITY EASEMENT):
NATIVE MATERIAL – ONE TEST PER 12-INCH LIFT PER 400 LINEAL FEET. 95% DENSITY
ABC MATERIAL – ONE TEST PER 24-INCH LIFT PER 400 LINEAL FEET. 95% DENSITY
NON–PAVED ALLEY:
NATIVE MATERIAL – ONE TEST PER 12-INCH LIFT PER 400 LINEAL FEET. 95% DENSITY
ABC MATERIAL – ONE TEST PER 24-INCH LIFT PER 400 LINEAL FEET. 95% DENSITY

EXISTING PAVED STREET PRISM (OR WITHIN 24" OF THE ASPHALT, Curb, OR SIDEWALK):
ABC ONLY – ONE TEST PER 24-INCH LIFT PER 50 LINEAL FEET. 95% BELOW THE TOP 24-INCHES. 100% DENSITY FOR THE TOP 24-INCHES.

EXISTING PAVED ALLEY:
ABC ONLY – ONE TEST PER 24-INCH LIFT PER 50 LINEAL FEET. 100% DENSITY FOR THE TOP 24-INCHES. 95% BELOW THE TOP 24-INCHES.

PROPOSED STREET PRISM:
APPROVED NATIVE (FINE'S REQUIREMENT) – ONE TEST PER 12-INCH LIFT PER 300 LINEAL FEET. 95% DENSITY
ABC MATERIAL – ONE TEST PER 24-INCH LIFT PER 400 LINEAL FEET. 95% DENSITY

ALL TEST RESULTS SHOULD BE SENT TO THE CITY OF SIERRA VISTA FAX (520) 417–4859

NOTE:
FIELD DENSITY TESTS SHALL BE TAKEN AT EVERY ONE–FOOT LIFT (VERTICALLY) OF NATIVE MATERIAL BEGINNING 18–INCHES ABOVE THE TOP OF THE GRANULAR SHADING MATERIAL OR FOR EVERY TWO–FOOT LIFT (VERTICALLY) OF ABC BACKFILL MATERIAL BEGINNING 12–INCHES ABOVE THE TOP OF THE GRANULAR SHADING MATERIAL. THE DENSITY TESTS SHALL BE STAGGERED IN ORDER TO DISTRIBUTE TESTING THROUGHOUT THE LIFTS OF BACKFILL MATERIAL PLACED IN THE TRENCH. ABC MAY NEED TO BE PLACED IN LESS THAN 24–INCH LIFTS TO OBTAIN THE REQUIRED DENSITY. SEE CITY OF SIERRA VISTA DEVELOPMENT CODE 151.08.009 FOR CITY REQUIREMENTS AND MAG STD. SECT. 601.4.6 FOR GRANULAR SHADING MATERIAL REQUIREMENTS.


NOTES:
1. SADDLE TYPE CONNECTION IS ONLY ALLOWED ON NEW SEWER TAPS INTO EXISTING SEWER LINES. ALL NEW CONSTRUCTION SHALL BE Y–CONNECTIONS.
2. SIZE OF TAP SHALL BE DESIGNATED ON PLANS.
3. CONSTRUCTION TAP AT MINIMUM SLOPE IF COVER WILL BE LESS THAN 5" AT PROPERTY LINE.
4. IF DEPTH REQUIRES, MINIMUM SLOPE CAN BE REDUCED TO ½" PER FOOT PROVIDED SUB STUB IS STAKED TO GRADE.
5. ALL FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D–2321. THE CONTRACTOR MAY VARY FROM THE DRAWING TO USE THE APPROPRIATE WYES.
6. TEE WYES AND BENDS TO ENSURE NO MISALIGNMENT OF THE PIPE AND FITTINGS. BLOCK OR BRACE FITTING JOINTS TO ENSURE ZERO DEGREES ANGULAR JOINT DEFLECTION.
7. END OF TAP TO BE SEALED AND MARKED AS NOTED.
8. A TRACER WIRE SHALL BE INSTALLED IN ORDER FOR THE CITY TO LOCATE ALL HCS LATERAL SEWER LINES. THE TRACER WIRE SHALL BE CONTINUOUS (NO SPLICES) SOLID 14 AWG COPPER WIRE WITH GREEN TYPE UF (UNDERGROUND FEEDER) INSULATION. THE WIRE SHALL BE SECURELY TAPED AT A MAXIMUM OF 10–FOOT INTERVALS AND EXTEND FROM THE SEWER MAIN TO A CLEANOUT AT ALL HCS LATERAL LINES. 12–INCHES OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE CLEANOUT. THE CLEANOUT SHALL BE LOCATED ON THE PRIVATE SIDE OF THE PUBLIC RIGHT OF WAY.
9. STAMP OR WELD THE LETTER “S” ON UD OF METER BOX.

#1 METER BOX PER MAG STD. DETAIL 320

MIN OF 12" OF TRACER WIRE ABOVE GRADE AT CLEANOUT
CLEANOUT WITH THREADED CAP
1-WAY CLEANOUT TOWARDS MAIN
STRIP INSULATION OFF THE LAST 12" OF TRACER WIRE

SDR–35 PVC CAP WITH
GASKET REQUIRED

TRACER WIRE TO BE SECURED
AT MAX 10' SPACING

SLOPE:
MIN: 4" OR 6" = ½" PER FOOT
MAX: 4" = 1–1/2" PER FOOT
MAX: 6" = ¾" PER FOOT

SEWER MAIN (SIZE NO MORE THAN 10")

MODIFIED MAG DETAIL 440–3

CITY OF SIERRA VISTA
NEW SEWER BUILDING CONNECTIONS

REVISION: 06/2021
SCALE: NTS
DETAIL NO: SV440

Sierra Vista

CITY OF SIERRA VISTA
1011 North Coronado Drive
Sierra Vista, AZ 85635
520–458–5775
NOTES:

1. ANY CLEANOUTS THAT ARE LOCATED IN AREAS THAT ARE TEMPORARILY UNPAVED SHALL BE RAISED TO AT LEAST ONE FOOT ABOVE THE HIGHEST ADJACENT GRADE ANTICIPATED. PROVIDE A STRAIGHT PIECE OF PIPE TO RAISE THE INLET ONE FOOT ABOVE ADJACENT GRADE. COVER WITH PVC CAP AND MARK WITH TRAFFIC CONES.

2. ANY MANHOLES THAT ARE LOCATED IN AREAS THAT WILL NOT BE PAVED SHALL BE RAISED TO AT LEAST ONE FOOT ABOVE THE HIGHEST ADJACENT GRADE. A CONCRETE COLLAR SHALL BE PLACED AROUND THE EXPOSED PORTIONS OF THE CLEANOUT. THICKNESS OF THE CONCRETE COLLAR TO BE AT LEAST ONE FOOT (MEASURED PERPENDICULAR TO THE COVER). DEPTH OF COLLAR TO BE AT LEAST 1 FOOT BELOW GRADE. MARK WITH 5' GREEN T-POST.

CLEANOUT INSTALLATION

ALL CONCRETE CONSTRUCTION SHALL BE CLASS 'A' (3000 PSI) PER MAG STD. SECT. 725

FLOW LINE ELEVATION SHOWN ON PLANS TO THIS POINT

STATION AND LENGTH SHOWN ON PLANS TO THE POINT

NOT ALLOWED

SEWER TAP AT CLEANOUT

MODIFIED MAG DETAIL 441
NOTES:
2. SIZE OF PIPE SHALL BE 4" UNLESS OTHERWISE SHOWN ON PLANS.
3. ALL WORK SHALL CONFORM TO THE CITY OF SIERRA VISTA DEPARTMENT CODE SECTION 151.08.007.E.4.
4. BACKFLOW ASSEMBLIES SHALL BE INSTALLED ON ALL HCSs.
5. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.
NOTES:

1. PREPARE THE BED FOR THE RIP RAP BY EXCAVATING AND SHAPING THE SLOPES AS WELL AS CONSTRUCTING THE TOE FOR RIP RAP INSTALLATION.
2. ALL STONES SHALL BE ANGULAR WITH ROUGH FLAT SURFACE TEXTURE. STONES SHALL BE APPROVED BY THE ENGINEER.
3. STONE SIZE ($D_{50}$) SHALL BE IN ACCORDANCE TO WHAT IS SHOWN ON THE PLANS.
4. THICKNESS OF ANY RIP RAP LAYER SHALL BE AT LEAST TWICE THE $D_{50}$ SHOWN ON THE PLANS.
5. STONE TOLERANCE SHALL NOT EXCEED 1 INCH IN HEIGHT.
6. GAP TOLERANCE BETWEEN STONES SHALL NOT EXCEED 1 INCH.
7. LAY THE STONE PERPENDICULAR TO THE SLOPE.

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<th>Design Gradation for Riprap</th>
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$D_{50} = 6''$

TOEDOWN

6'' MIN.

24''

FORMER SIERRA VISTA DETAIL SV101
1. PREPARE THE BED FOR THE RIP RAP BY EXCAVATING AND SHAPING THE SLOPES AS WELL AS CONSTRUCTING THE TOE FOR RIP RAP INSTALLATION.
2. ALL STONES SHALL BE ANGULAR WITH ROUGH FLAT SURFACE TEXTURE. STONES SHALL BE APPROVED BY THE ENGINEER.
3. STONE SIZE (D50) SHALL BE IN ACCORDANCE TO WHAT IS SHOWN ON THE PLANS.
4. THICKNESS OF ANY RIP RAP LAYER SHALL BE AT LEAST TWICE THE D50 SHOWN ON THE PLANS.
5. STONE TOLERANCE SHALL NOT EXCEED 1 INCH IN HEIGHT.

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