LONGMORE ROAD,
McDOWELL ROAD TO OSBORN ROAD

PROJECT NO. 0000 MA SRI SZ155 01C
FEDERAL AID NO. CMAQ–SRI–0(202)T
The roadway plans have been designed utilizing and current revisions. Refer to the 1A sheet for a listing of current revision dates.

The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications. Survey methods. Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications.

Delineators, object markers and mile post markers shall be removed and reset as required.

The average project elevation is 1232 ft. New Right of Way and easements are not required.

The roadway plans have been designed utilizing and current revisions. Refer to the 1A sheet for a listing of current revision dates.

The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications. Survey methods. Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications.

Delineators, object markers and mile post markers shall be removed and reset as required.

The average project elevation is 1232 ft. New Right of Way and easements are not required.
GENERAL NOTES FOR CONSTRUCTION

1. All Construction Shell Conform To The Latest MAG Standard Details And Specifications. The latest Arizona DOT, Of Transportation Construction Standard Drawing (C-Series) and Current Revisions, And To The SRPMIC's Ordinances, Codes And Design/Construction Standards. Additional Standards Shall Apply As Noted On The Plans.

2. This Set Of Plans Will Be Reviewed For Compliance With SRPMIC Requirements Prior To Issuance Of Construction Permits. Contact The SRPMIC E&CS Compliance Division At 480-850-8560 For Permit Review. Such Review Shall Not Prevent The SRPMIC From Requiring Correction Of Errors In Plans Found To Be In Violation Of Any Law Or Ordinance. Review And Approval Of Plans Does Not Release Any Developer Or Engineer From Responsibility For Error Or Omissions On Said Plans.

3. An Approved Set Of Plans Shall Be Available On The Job Site At All Times.

4. The Contractor Shall Call The Blue State Service, Phone Number (602) 267-1300 And Notify All Utilities At Least Two (2) Working Days Before Excavating. The Contractor Shall Also Call The Public Works Department, Phone Number (480) 850-7237 And Notify The Work Order Desk At Least Five (5) Working Days Before Excavating. The Contractor Shall Be Responsible For Any Damage Done To Public Or Private Property Shown On The Plans Or Blue Staked.

5. Where Only The Horizontal Location Of An Existing Utility Is Shown, The Location May Be Identified By Field Survey Methods. The Contractor Shall Comply With All Blue Stake Laws And Section 107.15 Of The Specifications.


7. The Contractor May Obtain A Fire Hydrant Meter For Construction Water From The SRPMIC Public Works Department. This Water shall be ordered Two Working Days Prior To The Start Of Construction. The Unlawful Removal Of Water From A Fire Hydrant Is A Violation Of The Community Code, Punishable By Fine And/or Imprisonment. A Permit For Construction Water From Irrigation Sources May Be Obtained By Contacting The Water Permit Specialist At 480-850-7284.

8. The Contractor Must Coordinate Any Disturbance Of The Ground With The Salt River Pima-Maricopa Indian Community Cultural And Environmental Services Department At Least 24 Hours Prior To Any Digging Or Earth Disturbance. Call 480-850-8045.


GENERAL NOTES FOR GRADING AND DRAINAGE CONSTRUCTION

1. Least 24 Hours Prior To The Start Of Any On-Site Grading Or Paving Operations, The Contractor Shall Notify The SRPMIC E&CS Compliance Division Inspector By Calling 480-850-8560. Additional Instructions Concerning Grading And Paving Inspections Will Be Provided At That Time By The SRPMIC Inspector.

2. The Grading Contractor Shall Designate The Location For Wastings Spill Materials And A Letter From The Community Or Other Owner Giving Permission For Sale Disposal Prior To Starting On-Site Construction.

3. The Contractor Is Responsible For Locating And Confirming Depth Of All Existing Utility Lines Within Proposed Retention Basin Areas. If The Basin Cannot Be Constructed For Plan As A Result Of Conflict With Underground Utilities, The Contractor Will Contact The Engineer And Request Modification Of The Basin Design.

GENERAL NOTES FOR WATER AND SEWER SERVICE CONSTRUCTION

1. Conflicts With Existing Utilities Discouraged During Construction Shall Be Called To The Attention Of The Engineer And Received Prior To Proceeding.

2. It Shall Be The Responsibility Of The Contractor To Have The Service Line Visible And Accessible When Requesting The Installation Of A Water Meter Or Inspection.

3. Only SRPMIC Personnel Are Authorized To Open And Close Water Valves.

4. All Water And Sewer Lines Shall Be Staked Prior To Trenching At A Maximum Staking Interval Of 50 Feet, Except When Engineer Approves The Use Of A Laser.

5. Location Of All Water Valves, Manholes, And Cleanouts Must Be Reaffirmed At All Times During Construction And Made Available To The SRPMIC Public Works Department.

6. Water And Sewer Separation And/or Encasement Shall Comply With MAG Std Details 404-1 And 404-2.

7. Contractor Shall Be Responsible For Adjusting All New And Existing Water Valves, Butterfly Valves Are Not Allowed In Lines 12-Inch And Smaller.

8. Butterfly Valves Are Not Allowed In Lines 12-Inch And Smaller.

**TYPICAL SECTION**

*Sta 10+80 to 24+19*

- 2" AC (Misc. Structural)
- 2" AC (Misc. Structural)
- 10" AB (Class 2)
- Sawcut
- Concrete Sidewalk
- Vertical Curb & Gutter
- Gutter Control Grade
- Steel Str Set No. 1
- Sidewalk Concrete C-05.20
- Sidewalk

**TYPICAL SECTION**

*Sta 24+19 to 36+90*

- 2" AC (Misc. Structural)
- 2" AC (Misc. Structural)
- 10" AB (Class 2)
- Sawcut
- Concrete Sidewalk
- Vertical Curb & Gutter
- Gutter Control Grade
- Steel Str Set No. 1
- Sidewalk Concrete C-05.20
- Sidewalk

**Note:**

The Tack Coat for Misc. Structural AC is considered to be included in the cost of the Misc. Structural AC item.
# Sign Signing General Notes

1. All sign relocation points are approximate. The Contractor shall verify all sign locations and post lengths with the Engineer prior to the reinstallation of all signs. The Contractor shall be responsible for coordinating all work with Blue Stake and installing all traffic signs as noted on the plans.

2. The Contractor shall inventory all signs within the project limits prior to removal and note damaged signs. All signs damaged by the Contractor's operation shall be replaced by the Contractor at no cost to the Department and SRPMIC.

3. All relocated signs shall be temporarily stored in a safe location until reinstallation.

## Panel Types
- **RW4s**: Regulatory, Warning, or Marker
- **F-DA**: Flat-sheet aluminum with direct applied or silk screened characters
- **F-Dem**: Flat-sheet aluminum with demountable characters
- **Exts**: Extrusions
- **Incrs**: Incremental
- **Overs**: Overhead (new overlaid extrusions)

## Stringer Types
- **Ps**: Square-tube post
- **Ts**: T-section (WT 3x6)
- **Us**: U-Channel Post
- **POST TYPES**:
- **St**: Non-Telescoping Perforated Post
- **Tt**: Telescoping Perforated Post

## Remarks
- **STA 15+02**
- **STA 37+20**
- **STA 50+53**
- **STA 60+30**
- **STA 63+58**
- **STA 64+09**
- **STA 76+82**
- **STA 77+47**
- **STA 101+88 OSBORN**

## Example Sign Summary Sheet

<table>
<thead>
<tr>
<th>Route Location</th>
<th>TRACS No.</th>
<th>Design DRAWN</th>
<th>Drawn NAME</th>
<th>Sheet No.</th>
<th>TRACS No.</th>
<th>Design NAME</th>
<th>Sheet No.</th>
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<td>6080109</td>
<td>6080109</td>
<td>6080109</td>
<td>6080109</td>
<td>6080109</td>
</tr>
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</table>

1. The Contractor shall verify post lengths and elevations for the Engineer's approval.
2. The Engineer may shift a sign in order to achieve a more desirable location.
3. Quantities are approximate and for the contractor's information only.
NOTES

1. All Concrete At Driveways Shall Be 8" Thick.

2. 2" Deep Traverse Contraction Joints Shall Be Placed In Driveways 20 Feet Or Wider. Formed Joints Shall Be Finished With A Tool Having A 1/4" Radius (See Contraction Joint Detail).

3. Expansion Joints Shall Be Located Between Driveways And Sidewalks And All Abutting Structures. The 1/2" Joint Filler Shall Extend The Full Depth Of The Concrete (See Expansion Joint Detail).

4. Concrete Shall Be Finished By Means Of A Float, Then Steel Trowelled, And Then Broomed With A Fine Brush In A Traverse Direction.

5. Expansion Joint Detail.

SIDEWALK AT CONCRETE DRIVEWAY

Notes: 6" Thick Concrete Driveway (Including Pedestrian Crossing) To Be Paved For Under 9080305.

SIDEWALK AT ASPHALT/GRAVEL DRIVEWAY

Notes: 8" Thick Concrete Pedestrian Crossing To Be Paved For Under 9080305.

CONTRACTION JOINT DETAIL

EXPANSION JOINT DETAIL

DRIVEWAY APRON

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<tr>
<th>DW#</th>
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C & G SIDEWALK RAMP SUMMARY

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<th>TYPE</th>
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<tbody>
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<td>18+55.0, 24.0' LT</td>
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<td>20+20.8, 25.0' LT</td>
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<tr>
<td>4</td>
<td>20+67.6, 25.0' LT</td>
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</tr>
<tr>
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<td>22+58.4, 25.0' LT</td>
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<td>22+00.3, 25.0' LT</td>
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<td>23+56.9, 20.2' LT</td>
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</tr>
<tr>
<td>8</td>
<td>23+88.3, 20.2' LT</td>
<td>DETAIL B</td>
</tr>
</tbody>
</table>

Sidewalk Ramp Notes:
1. Maintain a Sidewalk Cross Slope of 2% or Less
2. Cross Slope Transition Not To Exceed 1X Per 10 Feet Length
3. Ramp Includes All Curb and Gutter Within Payment Limits
**Mailbox Location Summary**

<table>
<thead>
<tr>
<th>No.</th>
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<td>86+54*</td>
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- *Relocate Mailbox To South Of Driveway To Avoid Conflicts (17 - Hydrant) (18 - Bus Pad)*

**Notes**

1. Dimension is measured from bottom of trench.
2. Place concrete up to springline of pipe.
3. Place concrete in all dimensions against undisturbed soil.
4. Use high early strength concrete rated at 2500 psi in 24 hr (min.)
5. Placement of rebar, polywrap valve prior to placing concrete.
6. Ensure rebar fits snugly around valve body prior to placing concrete.
7. Placement of rebar, polywrap valve to be coordinated with postal service.
8. New DI pipe snugly around valve body, #6 rebar, form to fit snugly around valve body.
**Detail E**

**Bus Pad**

- **Notes**
  1. Concrete shall be trowel finished.
  2. Pad, path, and access way to be max 2% slope.
  3. Concrete pad and access way to be paid for under Item 9080602.

**Bus Pad Summary**

<table>
<thead>
<tr>
<th>Station</th>
<th>Access Way Length (L)</th>
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<tr>
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<tr>
<td>50+15</td>
<td>10'</td>
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<tr>
<td>63+03</td>
<td>9'</td>
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<tr>
<td>89+15</td>
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</table>

**Plan**

- Bus Pad
- 8' Path
- Concrete Slab Turnaround
- Access Way

**Section A-A**

- Ped Location
- See Bus Pad Summary
- Match Existing Pavement

**Notes**

1. All ramp slopes to meet ADA requirements.
2. Concrete shall receive a rough bumpy finish as shown.
3. Landing to be max 2% slope in any direction.
4. Curb and valley gutter within ramp limits will be paid for under Item 9080246.

**Detail F**

**Bus Pad**

- 8' Path
- Concrete Slab Turnaround
- Access Way

- Match Existing Pavement

**Notes**

1. Concrete shall be trowel finished.
2. Pad, path, and access way to be max 2% slope.
3. Concrete pad and access way to be paid for under Item 9080602.

---

**Roadway Details**

- Osborn Rd Catch Basin
- Depressed Curb
- Match Existing Osborn Rd

**Section No. 1**

- Pavement Structural
- Sawcut and match

**Notes**

1. All ramp slopes to meet ADA requirements.
2. Concrete shall receive a rough bumpy finish as shown.
3. Landing to be max 2% slope in any direction.
4. Curb and valley gutter within ramp limits will be paid for under Item 9080246.

**Bus Pad Summary**

<table>
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<tr>
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<td>63+03</td>
<td>9'</td>
</tr>
<tr>
<td>89+15</td>
<td>7'</td>
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</tbody>
</table>
**NOTES**

1. Sidewalk Control Is Along Face Of Sidewalk
2. See Table (This Sheet) For Face Of Sidewalk PI Locations (Sidewalk Control Points)
3. See Curb & Sidewalk Geometry Sheet For Sidewalk Control Sta 10+80 To 25+00
4. Sidewalk Radius To Be As Shown Unless Specified Otherwise On Plan
5. Mirror Transition At Hydrant When Hydrant At Back Of Path

**FACE OF SIDEWALK PI LOCATIONS**

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utility pole blockout

notes
1. form sidewalk around utility conflicts listed in pole schedule per utility detail
2. sidewalk shall maintain a minimum width of 32" clear around each utility conflict

utility pole blockout

poleschedule

<table>
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<tr>
<th>pole number</th>
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<th>conflict</th>
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<td>pole, riser &amp; pedestal</td>
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<td>14+55</td>
<td>25' lt</td>
<td>pole &amp; support pole</td>
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<td>pole &amp; riser</td>
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<td>10</td>
<td>36+82</td>
<td>38' lt</td>
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minimum 32" clear (per ada guidelines)

4" clear

utility detail
GENERAL NOTES:
1. Base Elevation = 1200'
2. Elevations Shown Are To Top Of Pavement
3. Elevations Are At 25' Intervals Unless Otherwise Shown And Are At Edge Of Pavement (Sawcut Control Grade)
Refer to Detail DB for Pipe Installation

NOTE:
See Detail DG for New Headwall
See Pipe Summary Sheet for Pipe Information

H: 1"=5'
V: 1"=1'

Sta 26+36.09
Longmore Rd

22.00' Lt

New Headwall
See Detail DG

Sta 26+39.09
Longmore Rd

22.00' Lt

Driveway 6

Sta 26+36.09
Longmore Rd

0+50.00
Driveway 6

Longmore Rd Cst

No Skew

New 11"x18"x26' RCPA

Sta 26+36.09, 22.00' Lt
New 1"x18"x26' RCPA
No Skew

Refer All Stationing From Longmore Rd Cst
Refer To Detail DB For Pipe Installation

NOTE:
See Pipe Summary Sheet For Pipe Information

X

Stream Profile

0.0053m

0.0005m

0.0015m

Inv 1222.59

Inv 1222.63

0°04'18" E

New Headwall
See Detail DG

Sta 27+97.39
Longmore Rd
= 0+50.00
Driveway 7

Sta 28+11.39
22.00' LT
Longmore Rd

No Skew

New 11"x18"x28' RCPA
Sta 27+97.39, 22.00' LT

Longmore Rd Cst

Longmore Rd Cst

Driveway 7

Driveway 7

44°04'18" W

1225

1220

1220

1225

See Detail DG
New Headwall

Refer To Detail DB For Pipe Installation

No Skew

New 11"x18"x28' RCPA
Sta 27+97.39, 22.00' LT

Longmore Rd Cst
See Pipe Summary Sheet For Pipe Information

NOTE:
Refer To Detail DB For Pipe Installation

New Headwall
See Detail DG

Refer To Detail DB For Pipe Installation

No Skew
New 11"x18"x32' RCPA
No Skew
All Stationing From Longmore Rd Cst

H: 1"=5'
V: 1"=1'

Inv 1222.95

8:00'04"16' E

Longmore Rd Cat 6

See Detail DG
New Headwall

Refer To Detail DB For Pipe Installation

X

X

NOTICE: All Stationing From Longmore Rd Cst

V: 1"=1'
H: 1"=5'

Inv 1222.95
Refer To Detail DB For Pipe Installation

New Headwall
See Detail DG

Longmore Rd
Sta 31+35.91
22.00' LT

Sta 30+77.91
22.00' LT

New SRP Pad
By Others

See Pipe Summary Sheet For Pipe Information

NOTE:

1. All Stationing From Longmore Rd Cst
2. V: 1"=1'
3. H: 1"=5'
4. No Skew
5. New 11"x18"x74' RCPA

DRAINAGE PLAN & PROFILE

STATE
F.H.W.A.
REGION
ARIZ.
PROJECT NO.
SRI-0(202)T
SHEET NO.
0000 MA SRI
TOTAL SHEETS
9

SRI-0(202)T
0000 MA SRI

ARIZONA DEPARTMENT OF TRANSPORTATION
INNOVATIVE ELDER AND HANDICAPPED RIDE sharing experience in providing mobility solutions
ROADWAY DESIGN SECTION
SRPMIC LONGMORE RD PEDESTRIAN PROJECT
SZ155 01C

4625 East Fort Lowell Road  | Tucson, Arizona 85712
Tel 520.321.4625  | Fax 520.321.0333
Engineering and Environmental Consultants, Inc.

INFRASTRUCTURE DELIVERY AND OPERATION DIVISION

DETAIL D6

JKA
6-16
6-16

59

WV
FH
FH

3E-0

OF

TRACS NO. 52155 OIC
SRI-010107
Longmore Rd Cat E

See Pipe Summary Sheet For Pipe Information

New Headwall

Sta 33+62.52, 22.00' Lt
Longmore Rd

NOTE: All Stationing From Longmore Rd Cst
V: 1"=1'
H: 1"=5'

No Skew

New 11"x18"x46' RCPA
Sta 33+62.52, 22.00' Lt
See Pipe Summary Sheet For Pipe Information

Install Safety Rail See Detail DF
Riprap Inlet See Detail DD
Pipe Inlet See Detail DC

H 89°54'38" E
Sta 39+41.35
25.00' LT
Longmore Rd

Pipe Outlet
33.74' RT
Sta 39+41.35
Miter To Match
Pipe Outlet
See Detail DE

Pipe Outlet
See Detail DE
New 18"x28.5"x59' RCPA
Sta 39+41.35

Grouted Riprap
See Detail DC

Verify Location
Protect In Place

H 00°35'26" W

0.002 9$

 STREAM PROFILE

See Detail DF

Safety Rail
Install

State F.H.W.A.
Region ARIZ.
Project No.
Sheet No.
Total Sheets
0000 MA SRI
SRI-0(202)T

Location -
Date -
Revisions -
Survey No. -
Finished Plans -

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE ELDER AND PRAIRIE DIVISION
ROADWAY DESIGN SECTION
SRPMIC LONGMORE RD PEDESTRIAN PROJECT
SZ155 01C
SRI-0(202)T

Engineering and Environmental Consultants, Inc.
4625 East Fort Lowell Road  | Tucson, Arizona 85712
Tel 520.321.4625  | Fax 520.321.0333

G

WR
NOTES
1. All Concrete Shall Be Class B.
2. Grate Assembly Shall Be Fabricated Of Structural Steel In Accordance With ASTM A36.
3. All Welding Shall Be In Accordance With Std Spec 604-3.06.
5. Junction Box Paid For Under Item 5040901.

APPROXIMATE QUANTITIES

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<tr>
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Note: The Class B concrete shown for pipe backfill and bedding material for pipe shown in this detail will be considered to be included in the price of pipe item.
NOTES

1. All Concrete Shell Be Class B.
2. Floor Shell Be A Wood Troweled Finish And Slope To Pipe Outlet At Minimum 3 Percent.
3. All Rebar Shell Be ASTM A36.
4. All Welding Shall Be In Accordance With Std Spec 604-3.06.
5. Nose Plate Shall Be Given One Shop Coat Of Rust Inhibiting Paint Primer. Field Repair As Needed.
**PLAN VIEW - OUTLET**

- **6" Shotcrete With** 6"x6" (W1.4/W1.4)
- **Weed Wire Fabric**
- **Side Slopes To Match Existing Slopes, 15 SY**

**SECTION B-B**

- **Pipe E**
- **Match Exist Slope**
  - 3:1
- **Match Exist Slope**
  - 2:1

**SECTION C-C**

- **Welded Wire Fabric**
  - 6"x6" (W1.4/W1.4)
- **6" Shotcrete With**
- **Grade at Pipe E**
- **Pipe at Ditch Bottom**
- **Inv 1224.91**

**DETAIL DE**

- **SHOTCRETE OUTLET**
  - **New 18"x28.5" RCPA**
  - **Match Existing Slope**

**DETAIL DD**

- **RIPRAP INLET**
  - **Grouted Riprap**
  - **Pipe In Place**
  - **Note - Grout Around Pipe As Needed To Protect Pipe In Place. Grout To Be Included In Grouted Riprap Quantity.**

**SECTION A-A**

- **New Pipe Inlet**
- **See Detail DC**
- **Splitway Inv 1225.70**
- **Grade at Ditch Bottom**
- **Inv 1225.70**
- **Exist Irrigation Supply Line**
- **Probed In Place**

**DRAINAGE DETAILS**

- **NEW PIPE INLET & SHOTCRETE OUTLET**

---

**LOCATION - SRPMIC LONGMORE RD PEDESTRIAN PROJECT**

**SHEET NO.** 043_15005-01_drnDE.dgn

**DESIGN DRAWN DATE**

**CHECKED NAME**

**LOCATION**

**DATE**

**REVISIONS**

**RECORD DRAWING**

**ARIZONA DEPARTMENT OF TRANSPORTATION**

**INFRATECH SLUDE DISNKevin D. Wing**

**ROADWAY DESIGN SECTION**

**SRI-0(202)T**

**JAL**

**4625 East Fort Lowell Road | Tucson, Arizona 85712**

**Tel 520.321.4625 | Fax 520.321.0333**

**Engineering and Environmental Consultants, Inc.**

**INFRASTRUCTURE DELIVERY AND OPERATION DIVISION**

**SRI-0(202)T**
Prior To Welding
Cope Ends
( Typical )
Post & Rail
( Typical )
Grind Smooth
( Typical )
Grind 3/4"

NOTES
1. Posts and rails shall be 1.5" schedule 40 hot-dipped galvanized steel pipe ASTM A53, Grade B (C72 *IF, 1.9" O.D.). Galvanizing shall be in accordance with Specifications.
2. Shop prime w/rust inhibiting primer, Field repair primer as needed. Finish paint to be Desert Beige color. (Submittals required)
3. Vertical posts to be evenly spaced.
4. Remove all sharp edges.
5. Install handrail as shown here and specified in the specifications.

ANCHOR PLATE DETAIL
1/4" A36 Steel Plate
See Anchor Plate Detail
1/4" & 3" Anchor Bolts
(4 Each Plate)

ANCHOR CONNECTION
2" Min
Top Of Concrete Sidewalk

GROUND INSTALLATION
Class S Concrete
(3,000 PSI)

SAFETY RAIL
DETAIL DF

SAFETY RAIL
DETAILS

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION
SRPMIC LONGMORE RD PEDESTRIAN PROJECT
SZ155 01C
SRI-020217
4625 East Fort Lowell Road | Tucson, Arizona 85712
Tel 520.321.4625 | Fax 520.321.0333
Engineering and Environmental Consultants, Inc.

ANOTE S
1. Posts and rails shall be 1.5" schedule 40 hot-dipped galvanized steel pipe ASTM A53, Grade B (C72 *IF, 1.9" O.D.). Galvanizing shall be in accordance with Specifications.
2. Shop prime w/rust inhibiting primer. Field repair primer as needed. Finish paint to be Desert Beige color. (Submittals required)
3. Vertical posts to be evenly spaced.
4. Remove all sharp edges.
5. Install handrail as shown here and specified in the specifications.
NOTES

1. All Reinforcing Steel Shall Be #4 And Shall Conform To ASTM Specification A615.
2. All Reinforcing Steel Shall Have 2 Inch Clear Cover Unless Otherwise Noted.
3. All Concrete Shall Be Class "S" (f'c=3000 psi).
5. Compact Backfill For Footing Base To 95 Percent Of ASTM D698 Maximum Dry Density.

PLAN

SECTION A-A

ELEVATION

DETAIL DG

HEADWALL

SRI-0(202)T

0000 M4 M5

6/29/2016

N:\15005.01 - Longmore Road Pedestrian Project\15005.01\15005.01\Sheet\045_15005-01_drnG.dgn

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE ELDERLY AND DELIVERER DESIGN
ROADWAY DESIGN SECTION

SRPMIC LONGMORE RD PEDESTRIAN PROJECT

INFRASTRUCTURE DELIVERY AND OPERATION DIVISION

59

DWG NO.

OF
TRAFFIC CONTROL NOTES:

1. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer. The Contractor shall develop a traffic control plan in accordance with the requirements of the specifications. No measurement or direct payment will be made for developing the plan, the cost being considered as included in the price of contract items.

2. All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer. The Contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer.

3. All construction signs shall have black letters on an orange background with fluorescent sheeting. All regulatory signs shall have black letters on white background.

4. Sign mounting height for embedded posts is a minimum of seven feet and minimum of five feet for spring stands as measured from the bottom of the sign to the near edge of the pavement.

5. The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement or 6 feet behind guardrail for all signs mounted on embedded posts.

6. Flags shall be mounted on top of all construction signs except "end road work thank you" signs. Type A flashing warning lights shall be required on all nighttime construction signs except "end road work thank you" signs.

7. Type I or Type II barricades and vertical panels shall be placed at 20 feet O.C. on tangents and 40 feet O.C. on tangents, except as otherwise noted in the plans. A steady-burning yellow light (Type C) shall be mounted on every Type I or Type II barricade and the vertical panel used for channelization at night.

8. Speed limit signing is subject to review and change by the Engineer as dictated by field conditions.

9. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.

10. The Contractor shall maintain two-way traffic on all roadways on weekends, on holidays, at night and as directed by the Engineer.

11. All drawings are schematic only and are not to scale.

12. All signing, pavement marking, barrier, barricades and road closures shall be in accordance with Section 701 of the specifications for road and bridge construction (2008 edition), the signing and marking standard drawings (2002 edition, latest revision), the manual on uniform traffic control devices (MUTCD) (2009 edition), the Arizona supplement to the MUTCD, and the ADOT traffic control design guidelines (TCGD). 2011.

ADDITIONAL INSTRUCTIONS:

- Road work ahead signs shall be placed at 20 feet O.C. on tangents and 40 feet O.C. on tangents, except as otherwise noted in the plans. A steady-burning yellow light (Type C) shall be mounted on every Type I or Type II barricade and vertical panel used for channelization at night.

- Speed limit signing is subject to review and change by the Engineer as dictated by field conditions.

- Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.

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SIGN LEGEND:

- Road work ahead
- Speed reduced ahead
- End road work
- Thank you
- Speed limit

SPEED LIMIT 25

ADVANCE WARNING SIGNS:

The above signs shall be in place for the duration of the project.
### Maintenance of Traffic

<table>
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<tr>
<th>Activity No.</th>
<th>Construction Activity</th>
<th>Traffic Control</th>
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<tbody>
<tr>
<td>1.</td>
<td>Provide Standard Long-Term Signing.</td>
<td>Install standard long-term signing as shown on the advance warning sign detail on sheet 1 of 2 of the traffic control plans.</td>
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<tr>
<td>2A.</td>
<td>Construct All Improvements from McDowell Rd to Oak St</td>
<td>Maintain two lanes of traffic through the construction area, traffic control shall be as shown in figure TA-6 of the MUTCD.</td>
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<tr>
<td>2B.</td>
<td>Construct All Improvements from Oak St to Thomas Rd</td>
<td>Maintain two lanes of traffic through the construction area, traffic control shall be as shown in figure TA-6 of the MUTCD.</td>
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<td>2C.</td>
<td>Construct All Improvements from Thomas Rd to Osborne Rd</td>
<td>Maintain two lanes of traffic through the construction area, traffic control shall be as shown in figure TA-6 of the MUTCD.</td>
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<td>2D.</td>
<td>Construct All Improvements for Osborne Rd and Paint Crosswalk</td>
<td>Maintain two lanes of traffic through the construction area, traffic control shall be as shown in figure TA-6 of the MUTCD.</td>
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#### Estimated Quantities for Traffic Control

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<th>Activity 2B</th>
<th>Activity 2C</th>
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<td>2240</td>
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<tr>
<td>T01051</td>
<td>Temporary Sign (Less Than 10 S.F.)</td>
<td>EACH-DAY</td>
<td>-</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>T01052</td>
<td>Temporary Sign (10 S.F. Or More)</td>
<td>EACH-DAY</td>
<td>1200</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>1200</td>
</tr>
<tr>
<td>T01062</td>
<td>Flashing Arrow Panel</td>
<td>EACH-DAY</td>
<td>-</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td>T01075</td>
<td>Flagging Services (Civilian)</td>
<td>HOUR</td>
<td>-</td>
<td>80</td>
<td>20</td>
<td>20</td>
<td>10</td>
<td>130</td>
</tr>
<tr>
<td>T01078</td>
<td>Flagging Services (Local Enforcement Officer)</td>
<td>HOUR</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

*Traffic control for miscellaneous activities is not included in the above table.*
PLANT SCHEDULE - TREES

<table>
<thead>
<tr>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>QTY</th>
<th>SIZE</th>
<th>ANNUAL WATER REG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chilopsis linearis</td>
<td>Desert Willow</td>
<td>17 EA</td>
<td>5 GAL</td>
<td>1,985 gallons</td>
</tr>
<tr>
<td>Onagraceae</td>
<td>Prunus</td>
<td>29 EA</td>
<td>5 GAL</td>
<td>2,750 gallons</td>
</tr>
<tr>
<td>Prosopis velutina</td>
<td>Velvet Mesquite</td>
<td>75 EA</td>
<td>5 GAL</td>
<td>3,520 gallons</td>
</tr>
</tbody>
</table>

RECOMMENDED ANNUAL WATER REQUIREMENT IS PER TREE, AS MATURED. SOURCES PHOENIX ACTIVE AREA MANAGEMENT.

INERT MATERIALS SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>NOTES</th>
<th>REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposed Granite As Shown on Plans</td>
<td>575 SQ.YD.</td>
<td>Sizes 1/4&quot; minus 1&quot; minus</td>
<td>Refer to Special Provisions, Section 803</td>
</tr>
<tr>
<td>Rock Mulch As Shown on Plans</td>
<td>1470 SQ.YD.</td>
<td>Sizes Gradation C</td>
<td>Refer to Special Provisions, Section 803</td>
</tr>
</tbody>
</table>

SITE FURNISHINGS SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Bench, Backless</td>
<td>5 EA</td>
<td>Refer to Special Provisions</td>
</tr>
<tr>
<td>- Trash Receptacle</td>
<td>5 EA</td>
<td>Refer to Special Provisions</td>
</tr>
</tbody>
</table>

LANDSCAPE GENERAL NOTES:
1. Trees to be planted a minimum of four feet (4') from sidewalks.
2. Trees shall be located to avoid conflicts with overhead and underground utilities.
   a. Sewers: Tree trunks shall be 16" min. from manholes, and all parts of the tree shall be 10" min. from sewer lines.
   b. Gas Trees: Trunks shall be 8" min. from all gas lines.
   c. Electrical: Trees shall be planted so that no part of the tree grows within 15' of electrical equipment. All tree trunks will be a minimum of 2'-0" away from underground electrical. No trees shall be placed within 6'-0" on either side of electrical pads. No trees shall be placed between electrical pads and streets.

D1 GROUND PLANE TREATMENT

D2 DECOMPOSED GRANITE (STABILIZED) FOR MAILBOX ACCESS
NOTES:
1. Refer to Landscape Plan Summary Sheet, R1.01, for quantities and General Notes. Refer to Special Provisions for additional information.

KEYNOTES:
1. Bench, Refer to Special Provisions
2. Trash Reap, Refer to Special Provisions
3. Decomposed Granite (Stabilized)
4. Rock Mulch
5. Water Harvesting Basins

PLANT LEGEND - TREES

Botanical Name: Common Name

1. Cholla Cane (Spiny)
2. Desert Willow
3. Giant Teakad
4. Franklinia
5. Prickly-Leaf Rosemary
6. Water Harvesting Basins
I. PROJECT DESCRIPTION

A. Owner Name and Address:
Arizona Department of Transportation
205 South 7th Avenue
Phoenix, AZ 85001-3213

B. Project TRACS Number:
S2155 01C

C. Project Location:
Longmore Road

D. SRPWMC County, Maricopa

E. Beginning Latitude (NAD 83)
33° 27' 57"

F. Beginning Longitude (NAD 83)
111° 57' 57"

G. Ending Latitude (NAD 83)
33° 28' 16"

H. Ending Longitude (NAD 83)
111° 57' 57"

II. HYDROLOGIC INFORMATION

A. Project Size
20.5 Acres

B. Area to be Graded (Ac.)
5.56

C. Percentage before Construction:

D. Receiving Material, refer to the Arizona Department of Water Resources Web Link below (USGS Topo):


III. PRESERVATION OF EXISTING VEGETATION

A. In accordance with the specifications, existing vegetation will be preserved. Clear cuts will be confined to areas that require grading. Existing vegetation within the cleared area shall be protected from damage by construction activities. Existing trees within the area to be cleared shall be preserved and protected, wherever possible.

IV. SOIL STABILIZATION MEASURES

A. At disturbed soil, which will not be paved, riprapped or otherwise covered to prevent erosion, soil-stabilized and/or landscape in accordance with the project plans and specifications.

B. Scheduling of the revegetation effort can be found on PART 2 of this sheet under SCHEDULE OF MAJOR ACTIVITIES.

V. MEASURES TO CONTROL EROSION AND SEDIMENT

A. Temporary Erosion and Sediment Controls refer to the following SWPPP Site Plan and Specifications:

B. Permanent Erosion and Sediment Controls and Post-construction Storm Water Management Measures refer to SWPPP Site Plan and Specifications:

C. Other Best Management Practices:

D. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4) Requirements

E. Other, Describe:

VI. MAINTENANCE AND INSPECTIONS

A. Frequency of Inspections:
At least once every 5 calendar days, or
Every 14 calendar days and within 24 hours after a rainfall of 0.5 inches (12.7 mm) or more.

NOTE: RAINFALL GAUGE TO BE KEPT ON-SITE TO DETERMINE DEPTH OF RAINFALL

B. Inspection Procedures:

VII. OTHER REQUIREMENTS

A. A copy of the General Permit and NOI are attached in accordance to AZPDES General Permit for Storm Water from Construction Activities to the Water of the United States.

B. Projects that are within 1/4 mile of impaired or unique waters shall submit a SWPPP plan for review and approval. Refer to the Arizona Outstanding, Impaired and Unique Waters Maps by County web link:


C. For further requirements, check the ADOT's Smart NOI Web Pages:

https://azgpo.azdot.gov/Service/NOI
1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor for slope protection and in accordance with good engineering practices.

2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.

3. Butt adjoining wattles tightly against each other. Drive the first and stakes of the second wattle at an angle toward the first wattle to help abut them tightly.

4. Repair any hills or gullies promptly. Make field adjustments and corrections of Wattle BMP immediately if it is causing flooding, erosion, or affecting roadway safety.

5. Construction of cut slopes 3:1 and steeper in soil and rock materials that can be ripped shall be constructed, wherever possible, by Whitening. Refer to Slope Whitening BMP Details.

6. Loose surface soil is not required where Whitbenches are used. For seeded areas, bench shall be performed to form rille and furrows parallel to new slope contours and as specified in Section 805 of the Standard Specifications and these Special Provisions.

7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to direct run-on water.

8. Install and maintain Sediment Wattles BMPs to carry the stormwater or bridge drainage facilities.

9. Install and maintain Sediment Wattles BMPs to carry the stormwater of at least 1-2 year, 24-hour events.

10. The Sediment Wattle BMP's pay/bid item shall include all materials used for this BMP, all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.

11. Refer to Standard Specification Section 800-2.06(C) for Sediment Wattle material specifications.

12. Water flow adjustments and corrections to ensure NG sensitive biological species (invasive species / habitats) will be adversely impacted.

**Notes:**

1. Top Row Shall Not be Placed within 6'-0" of Edge of Paveent and 9'-0" from Outside Surface of Barrier.

2. For erosive soils, place rows of wattles closer together.

3. For soils with low erosive potential, place rows of wattles further apart.

**Sediment Wattle Staking Detail (NTS):**

- Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices.

- Butt adjoining wattles tightly against each other. Drive the first and stakes of the second wattle at an angle toward the first wattle to help abut them tightly.

- Repair any hills or gullies promptly. Make field adjustments and corrections of Wattle BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.

- Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor for slope protection and in accordance with good engineering practices.

**Wattle Spacing Intervals**

- Slope Ratio (H:V) Maximum Spacing Interval
- 6:1 10'
- 5:1 20'
- 4:1 30'
- 3:1 40'
- 2:1 60'

**Sediment Wattle Layout (NTS):**

- 5'-0" (Max)
- 6'-0" Minimum

**Sediment Wattle Overlap (NTS):**

- 6'-0" Minimum from Edge of Pavement

- Rpt 6'-12" with Furrors Left Parallel to New Slope Contours Created During Soil Tillage

- Install Sediment Wattles Per Staking Detail Below

**Sediment Wattle Staking Detail (NTS):**

- 1"x1" Hardwood Stake
- 9" or 20" Diameter
- Auger Hole or Tillage May Be Required for Proper Stake Depth

**New Shoulder Buildup II Protection Section (NTS):**

- Notes:

- Revised during construction of cut slopes and steeper in soil and rock materials that can be ripped shall be constructed, wherever possible, by Whitening. Refer to Slope Whitening BMP Details.

- Loose surface soil is not required where Whitbenches are used. For seeded areas, bench shall be performed to form rille and furrows parallel to new slope contours and as specified in Section 805 of the Standard Specifications and these Special Provisions.

- Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to direct run-on water.

- Installation and maintenance of Sediment Wattles BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.

- Install and maintain Sediment Wattles BMPs to carry the stormwater of at least 1-2 year, 24-hour events.

- The Sediment Wattle BMP's pay/bid item shall include all materials used for this BMP, all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.

- Refer to Standard Specification Section 800-2.06(C) for Sediment Wattle material specifications.

- Water flow adjustments and corrections to ensure NG sensitive biological species (invasive species / habitats) will be adversely impacted.