CALL 811 OR CLICK ARIZONA811.COM

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.

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LOCATION MAP

SECTION 8, 14, 16, 17, 21, 22, AND 23
T-5S, R-15S, E 1/2, S 1/2 N 1/2 S 1/2 W
PIMA COUNTY, ARIZONA
SCALE: 1" = 100'
GENERAL NOTES

1. Horizontal Control: This project utilizes the Arizona Coordinate System, 1983 (ACS 83), HARN, and is located in the central zone. The control network was surveyed in April 2020 using Trimble GPS units utilizing differential real-time kinematic methods and incorporated the following National Geodetic Survey (NGS) and City of Tucson control points.

2. Combined Factor (Cf) = 1.009948799

The Basis of STaking for this project is W 1547’ 11” N upon the line common with Section 14 and Section 23, Township 15 South, Range 15 East, G.S.R.M., from a 1.5-inch aluminum cap at the north quarter corner of Section 23 to a 2-inch brass cap survey monument in a casing at the northeast corner of Section 23. The reference meridian is AC83 Grid North.

3. Vertical Control: The vertical datum for this project is North American Vertical Datum of 1988 (NAVD88). The Bench Marks used for this project were:

4. Right-of-Way encroachments shall be removed by the contractor as directed by the Engineer and will be paid for under payment of Structures and Obstructions.

5. All construction activity and test methods shall conform to the PAG SPSI and SPSI, 2015 editions. These documents are on file at 201 N. Stone Avenue, Tucson, AZ 85756-7201. The said specifications and details may be modified or incorporated as indicated in these plans and Special Provisions.

6. The contractor shall comply with all applicable occupational health and safety administration regulations, in particular, storage of flammable materials.

7. The contractor shall obtain all permits required by governmental agencies.

8. The contractor shall be responsible for the care, maintenance, repair, or replacement of existing facilities in the work area which are removed or damaged during the course of construction. All repairs, replacement or cleanup shall be completed to the satisfaction of the Engineer.

9. The contractor is responsible for complying with all regulations and requests by the Engineer regarding dust abatement.

10. It shall be the contractor's responsibility to furnish, haul and apply all water required for compaction and for the control of dust from construction activity. The cost will be considered as included in the contract price for the various bid items for which this work is incidental.

11. Upon commencement of work, traffic control devices shall be posted and maintained by the contractor until such a time as the work is complete. All warning signs, barricades, etc. shall be in accordance with the Manual on Uniform Traffic Control Devices 2009 Edition and as approved by the Engineer.

12. Access shall be maintained to all businesses, residences, and side streets at all times except when approved by the Engineer.

13. Utility locations, as shown on the plans, were compiled based on the best information available. Utility locations are not intended to be exact or complete. Prior to commencing construction the contractor shall verify the location of all utilities with the appropriate organizations. It shall be the responsibility of the contractor to protect all existing utilities in place that are not shown on the project plans to be relocated or modified. With the approval of the Engineer and the Owner of the utility, the contractor may remove and replace or relocate existing utilities for its convenience. No separate measurement and payment will be made for protection, removal, replacement, or relocation of existing utilities. The cost will be considered as included in the contract price for the various bid items in which this work is incidental. Contact Blue State 1-866-354-6387, two full working days prior to beginning construction. Saturday and Sunday are not considered working days.

14. Removal of all costs and native plants shall be in accordance with the provisions of the “Arizona Native Plant Law,” A.R.S. Chapter 7.

15. The project roadway shall be stripped by the contractor in accordance with the details shown in the project plans and with the PED/EDIT Pavement Marking Design Manual, 2016.

16. All existing monofilament lines and covers, survey monuments, water valves, etc. shall be adjusted to match finished grade where applicable and as directed by the Engineer. This work shall be considered incidental to the other items of work, except when the bidding schedule contains specific items on a unit basis.

17. Various grading operations may be necessary as and around existing utility pole facilities and trees. The cost will be considered as included in the contract price for the various bid items for which this work is incidental.

18. All existing signs to be removed as part of this project are to be delivered to the City of Tucson Sign Shop at 4504 S. Park (734-2314). The contractor is responsible for unloading the salvaged material. The City of Tucson will provide new signage prior to completion of the construction activities.

19. Transitions from vertical curb to waist curb, depressed curb, and gutter or catch basins will be considered as included in the contract price for Item No. 90880005, Concrete Curb. Depressed curb will be considered as included in the contract price for concrete curbs.

20. Riprap shall be applied to all slopes that are 2:1. All slopes and graded areas 3:1 or flatter shall be regraded.

21. All right-of-way fence shall be constructed 1 foot inside new right of way except where noted otherwise.
1. All design standards, materials, and workmanship for public sanitary sewer mains shall be in accordance with the PIMA COUNTY (ARIZONA) WASTEWATER RECLAMATION DEPARTMENT (PDCO) engineering design standards 2016 (PDCO 2016) and the standard specifications and details for construction 2016 (PDCO 2016). Said documents are available through the PDCO website.

2. The contractor shall contact Arizona 811 ( Toll free: 1-800-722-7446) a minimum of two (2) business days prior to commencing construction activities. The contractor shall keep all underground facility location requests up to date and comply with Arizona Revised Statutes (A.R.S.) Title 49, chapter 1, Article 6, Section 49-3662.22. Concerning the accuracy between the underground facility markings and the project plans shall be immediately reported to the design engineer.

3. Contractor shall maintain access to all sanitary sewer manholes at all times.

4. Any house connection (HCC) or Business connection sewer (BCS) lines encountered during construction shall be protected, repaired, or restored as the situation dictates. For PDCO 2016 details, see Paragraph 401.420. (A) and (B) and at no expense to the property owner or PDCO. BCS and HCC lines are not designed or maintained by PDCO. Private connection sewer lines constructed prior to January 2016 are not required to be located and marked.

5. Immediately report any of the following to the PDCO operations control center (OCC) at (520) 794-6500: Any release of sewage, any damage to the public sanitary sewer system, or the depositing of debris into a public sanitary sewer main. A PDCO representative will be dispatched to the site. The contractor shall take immediate action to contain a sanitary sewer spillage (520) 794-6500. The contractor shall be responsible for all costs to repair the system, mitigate the release of sewage, discontinue the release areas, and any regulatory penalties levied by PDCO for violations involving a natural drainage, manhole or storm water drainage, or drainage system the contractor shall immediately clear the damage as directed and approved by the PDCO field representative.

6. Modification to or adjustment of existing PIMA COUNTY sewer facilities shall not commence until (a) the contractor has obtained a PDCO public sewer construction permit (PDCO 2016). The contractor’s flow management plan has been submitted thirty (30) calendar days prior to the start of construction and approved by PDCO field engineering, and (2) a pre-construction meeting with the assigned PIMA COUNTY project field engineer is scheduled at least three (3) full business days prior to commencing sewer construction.

7. The contractor shall adjust or reconstruct all sanitary sewer manholes to finished grade. All frames and cover adjustments shall be in accordance with PDCO 2016, details Nos. 544-200, 201, 202, 203, or 205 (4) applicable. The contractor shall protect the flow channel and flow channels with a cover per PDCO 2016, details Nos. 544-200. Prior to commencing any work to the manhole and removing the cover after all work is complete, the contractor shall ensure that frames and covers are clean and free from any and all materials adhered to the concrete, concrete, etc. and that all vent holes are open and clear of obstructions. As approved by the PDCO field engineer, existing frames and/or covers that are damaged or cannot be completely cleaned shall be replaced with a new and cover in accordance with PDCO 2016, details No. 544-200. Costs associated with existing frames and covers that are lost or damaged due to the contractor’s operations shall be the responsibility of the contractor.

8. The contractor shall develop a flow management plan (FMP) to PDCO field engineering prior to proceeding with any work that may affect flow and shall include all flow management costs in the construction bid. The FMP shall be submitted thirty (30) calendar days prior to the sewer pre-construction meeting. The FMP engineering will review the FMP within ten (10) business days to accommodate review and revision cycles, prior to PDCO 2016, section 3 for FMP requirements. Please contact PDCO field engineering at (520) 794-8167 for any questions involving flow management.

9. Storm water and sediment control measures shall be properly installed to protect PIMA COUNTY manholes at the beginning of the operation. It is the responsibility of the contractor to maintain storm water and sediment control measures that protect PIMA COUNTY manholes under all conditions. For the duration of the project under no circumstances shall the contractor allow storm water, sediment, or potential pollutants from a construction site to enter a PIMA COUNTY manhole. The contractor shall ensure that their flow management operations include controls to prevent any introduction of storm water, sediment, or pollutants into the public sanitary sewer system. Failure to conform to these requirements shall result in cancellation of the sewer construction permit.

10. Prior to the pre-construction meeting with PDCO, the contractor shall identify all existing sanitary sewer manholes, covers, and foreign materials. Attached foreign materials shall be removed from the existing manhole covers regardless of existing or new conditions. If built-up is too heavy to be removed, the contractor shall replace the manhole frame and cover and salvaged items shall be delivered to PIMA COUNTY. At 3300 N. Goss Ave., TUCSON, AZ. The contractor is responsible for coordinating with the PDCO inspector to schedule a time to deliver the salvaged items and covers. After the completion of payment work, the contractor shall verify that all sanitary sewer manhole covers and pick holes are clean and free of any construction materials, debris, and other obstructions.

11. Any work done or around an existing sanitary sewer manhole including manholes that are relocated within the rough grading limits for a project shall be protected from rainfall debris by installing a temporary flow change cover per PDCO standard specifications and details for construction, standard details 544-200. The contractor shall replace any debris that enters a manhole during construction. Failure by the contractor to promptly replace debris from a manhole shall result in PDCO taking corrective action that will then be billed to the contractor.

12. Prior to commencing with manhole adjustment work (i.e. removal of the manhole frame and covers), the contractor shall visually inspect the condition of the manhole frame and covers, and orange ribbon to identify any special construction conditions or special conditions. Prior to any actual work and inspection by PDCO. If such conditions are identified, the contractor shall immediately notify field engineering at (520) 794-8167 for further direction.
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Contact Arizona 811 at least two full working days before you begin excavation

EARTHWORK QUANTITIES

- Roadway Excavation: 51,833 CY
- 10% Shave: 6,183 CY
- ** Over Excavation: 11,689 CY
- Structural Excavation: 1,224 CY
- Roadside Excavation: 4 CY
- Structural Excavation: 1,136 CY
- Pipe Excavation: 2,243 CY
- ** Total Excavation: 86,432 CY
- ** Total Shave: 6,643 CY
- ** Total Excavation Available: 56,789 CY
- ** Roadside Excavation (Net) (Eng. Comp.) 101,198 CY
- ** Structural Backfill: 365 CY
- ** Pipe Backfill: 1,317 CY
- ** Total Embankment Required: 101,198 CY
- ** Earthen Embankment (In Place): 41,409 CY

* Informational Purposes Only
** Over excavation material shall not be used in the project

EARTHWORK FACTORS

- Valencia Rd
- ** 10% Shave: 0.10'
Contact Arizona 811 at least two full working days before you begin excavation.

Notes:
1. See Roadway Plans for striping layout.
2. See Roadway Plans for cut and fill slope applications.

* See Super-elevation diagram on roadway plans for cross slope variation.
Call 811 or click Arizona811.com Contact Arizona 811 at least two full working days before you begin excavation.

Notes:
2. See Roadway Plans for cut and fill slope applications.

* See Super-elevation Diagram on roadway plans for cross slope variation.
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NOT FOR CONSTRUCTION
DRAFT

Valencia Rd
Survey & Cut &
Section Line

Notes:
1. See roadway plans for right-of-way layout.
2. See roadway plans for cut and fill slope applications.
3. See roadway plans for right-of-way plans for right-of-way interrata.

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30% Plans

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DRAFT
30% Plans
NOT FOR CONSTRUCTION
Note: Proposed MUP will generally follow the existing ground when the proposed profile is not shown. The proposed MUP shall not change the existing roadside drainage pattern.
Call 811 or click Arizona811.com

Contact Arizona 811 at least two full working days before you begin excavation.

Note: Proposed MUP will generally follow the existing ground when the proposed profile is not shown. The proposed MUP shall not change the existing roadside drainage pattern.
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Contact Arizona 811 at least two full working days before you begin excavation.

NOT FOR CONSTRUCTION
Notes:
1. RCP shall be constructed in accordance with ADOT Std. 16RT.

2. Outlet headwall shall be based on ADOT Std. 15RT.

3. Manholes shall be installed on headwalls as shown on the plans & per AHA Std. 910.

4. Rock Match for permanent erosion control shall be installed per 2SH102.

5. Ditch dimensions are based on ADOT Std. 05RT & 03RT with 4:1 slopes.

6. Details for drainage features (drop inlets, outlet protection, etc.) are shown in Stage 1 plans for representative purposes. Construction details will be performed in subsequent submittals.

7. Drainage easements are preliminary based on downstream grading needs and will be refined as outlet protection and downstream grading is designed in subsequent submittals.
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Contact Arizona 811 at least two full working days before you begin excavation.
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Contact Arizona 811 at least two full working days before you begin excavation.

Notes:
1. MBSC shall be constructed in accordance with ADOT Std 0708-6001.
2. Outlet wingwalls and headwall shall be based on ADOT Std Deg 02-08-006.
3. Headwall shall be installed on headwalls and wingwalls as shown on the plans & per FAS Std 02-08-006.
4. Rock fill for permanent erosion control shall be installed per SMIPPS Sheet Detail LS2, unless shown otherwise.
5. Stitch dimensions are based on ADOT Std Deg C-0510 with 4:1 slopes.
6. Details for drainage features (drop inlets, outlet protection, etc) are shown in Stage 1 plans for representative purposes. Design layout and detailing will be performed in subsequent submittals.
7. Drainage easements are preliminary based downstream grading needs and will be refined as outlet protection and downstream grading is designed in subsequent submittals.
Notes:

1. RCP shall be constructed in accordance with ADOT Std Dwg C-1310.

2. Inlet and Outlet headwalls shall be based on ADOT Std Dwg SD-8.30.

3. Headwalls shall be installed as shown on the plans & per FAG Std DH 105.

4. Rock Mulch for permanent erosion control shall be installed per SWPPP Sheet Detail E52, unless shown otherwise.

5. Erosion control methods are based on ADOT Std Dwg C-0310 with 4:1 slopes.

6. Detains for drainage features (drops, inlets, outlet protection, etc.) are shown in Stage 1 plans for representative purposes. Design layout and detailing will be performed in subsequent submittals.

7. Drainage easements are preliminary, based on surveying and will be refined as outlet protection and downstream grading is designed in subsequent submittals.

8. Plans are not for construction.
Call 811 or click Arizona811.com
Contact Arizona 811 at least two full working days before you begin excavation.

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30% Plans
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NOT FOR CONSTRUCTION
Pavement Marking General Notes

1. All equipment, materials, and construction shall meet or exceed the requirements contained in the current Pima County/City of Tucson (PC/COT) standard specifications. The standard specifications and the approved plans, all pavement markings shall be installed in accordance with the PC/COT pavement marking design manual and applicable amendments.

2. The Bid/Proposal document shall accompany the bid proposal. The Bid/Proposal document shall be used to verify the Bidder's understanding of the project and the requirements.

3. Upon approval of the Pavement Marking Layout, the City of Tucson Traffic Engineer will issue written authorization to the contractor to proceed with installation of all Pavement Markings and any other required related work described in the Bid/Proposal document.

4. The principal Pavement Markings may be modified as directed by the Traffic Engineer or their designee.

5. The design speed for Valencia Road is 50 mph. The posted speed limit is 45 mph. The design speed for East Valley Road is 35 mph. The posted speed limit is also 35 mph. The design vehicle is WB-62 R.P.M.

6. All lane dimensions are measured from the center of the lane line, center of double lane line, or edge of pavement unless otherwise noted.

7. The Pavement Marking Drawings are schematic only; the contractor shall follow all dimensions, applicable marking details, and specifications of the City of Tucson Standards when installing pavement striping, symbols, legends, and markers.

8. Painted layout striping shall be 10 mil (0.010") thick. Material placed on the final pavement surface, with 8 pounds per gallon of an 85-part acrylic thickness at 15 mil. The design of a 15 mil striping is 210 mils (0.210"").

9. The final longitudinal stripping shall be 90 mil (0.090") extruded thermoplastic. Reflectors striping places over the painted layout striping with a single 105 of 0.010". 0.010" pounds per 100 square feet of asphalt. The final longitudinal striping shall be placed within 20 to 30 calendar days of the final pavement surface being completed. All previously painted longitudinal markings shall be applied during the final longitudinal striping.

10. All Pavement Marking Lengths are 4" equivalent quantities.

11. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

12. It is the contractor's responsibility to ensure that the final surface course is placed so that the construction joint is no more than one foot offset from the final stripping.

13. All retro-reflective raised pavement markers (RPM) shall be installed so that the retro-reflective raised pavement marker is perpendicular to the direction of traffic. The direction of traffic is defined as the direction in which the vehicle is traveling.

14. All retro-reflective raised pavement markers (RPM) shall be installed so that the retro-reflective raised pavement marker is perpendicular to the direction of traffic. The direction of traffic is defined as the direction in which the vehicle is traveling. The direction of traffic is defined as the direction in which the vehicle is traveling.

15. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

16. It is the contractor's responsibility to ensure that the final surface course is placed so that the construction joint is no more than one foot offset from the final stripping.

17. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

18. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

19. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

20. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

21. The contractor shall be responsible for the layout and installation of Pavement Markings on the final pavement surface.

22. White temporary reflective Pavement Markers (RPM) shall be used to delineate the guide strip between sidewalks, curbs, and bike lanes. The white temporary reflective markers shall be installed at the same time as the paint in the other lane. These markers shall be removed when the paint is dry.

23. The contractor shall be responsible for maintaining all striping until the project is approved for "Construction Acceptance" by the City of Tucson Traffic Engineer. The contractor shall be responsible for maintaining all striping until the project is approved for "Construction Acceptance" by the City of Tucson Traffic Engineer. The contractor shall be responsible for maintaining all striping until the project is approved for "Construction Acceptance" by the City of Tucson Traffic Engineer. The contractor shall be responsible for maintaining all striping until the project is approved for "Construction Acceptance" by the City of Tucson Traffic Engineer.

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BEGIN PAVEMENT MARKING
VALENCIA RD
STA 109+22.41
MATCH EXIST

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD

MATCH EXIST
STA 109+22.41
VALENCIA RD
Pavement Marking Plan

Valencia Road

Kolb Road to Houghton Road

Preliminary 30% Design

City of Tucson
Department of Transportation/Engineering Division

Not for Review

PRELIMINARY 30%

305000

285000

290000

V A L E N C I A  R O A D

V A L E N C I A  R O A D

See Sheet PM09

Match Line STA 285-00

See Above Right

Match Line STA 290-00

Match Line STA 305-00

1" = 40'

1'(Typ)

6'(Typ)

See Below Left

11'

6'

11'
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