



**SPECIAL PROVISIONS
FOR
INTERSECTION IMPROVEMENTS AT
79th Avenue and MC 85
MCDOT Project No. TT0553
(PACKAGE 2)**

LOCATION OF THE WORK: The project is located in Township 1N, Range 1E, Sections 11 and 14, at the intersection of 79th Avenue and MC 85 (Buckeye Road) within Maricopa County, Arizona.

PROPOSED WORK: The work consists of constructing a new traffic signal, intelligent transportation systems fiber optic cable, sidewalk, signing, and pavement marking. The Contractor shall remove existing signs and striping at locations shown on plans. The Contractor shall remove and replace sidewalk that is impacted by construction.

CONTRACT TIME: The Contractor shall complete all project work within 550 calendar days from the date of the Notice to Proceed.

CITY OF PHOENIX DESIGN STANDARDS: See Appendix A.

SECTION 105 CONTROL OF WORK

105.6 COOPERATION WITH UTILITIES, add the following:

The following utilities are expected to be located within the limits of this project. These utilities, along with the contact information, are listed below:

Utility Name	Contact Name	Phone Number	Type of Facility
American Telephone & Telegraph (AT&T)	Leon Ellis	480-844-6765	Telephone
CenturyLink (Local)	Michael Vespucci	602-630-1429	Telephone
City of Phoenix	Jamie Erickson	602-261-8229	Water & Sewer
City of Tolleson	Dale Crandell	623-640-5202	Water & Sewer
Cox Communications	Kurtis Miller	623-328-3843	Cable/Fiber
Level 3 Communication	Carlos Muniz	602-322-2162	Fiber
MCDOT Utilities	LeShawn Charlton	602-506-9025	ITS
Southwest Gas	Yvonne Aguirre	602-484-5338	Gas

Utility Name	Contact Name	Phone Number	Type of Facility
Salt River Project	Richard Johnson Keith Pellien Bruce Souder	602-236-4607 602-263-4962 602-263-0692	Water/ Irrigation/ Communications/ Power/ Distribution/ Transmission

CenturyLink

Blue Staking for location of CenturyLink facilities must be completed prior to any construction. Should the Contractor locate or expose an unknown CenturyLink facility, contact CenturyLink as soon as possible. Support and protection is required for all CenturyLink facilities during construction. When crossing CenturyLink facilities, the Contractor is required to pothole to determine depth and maintain a minimum of 12 inch vertical and horizontal separation from facilities.

City of Phoenix

City of Phoenix maintains water, reclaimed water, and sewer facilities in the area, protect in place. Any manholes and valves impacted along the project are required to be raised to final grade. The City of Phoenix requires the water valves to be adjusted per the City of Phoenix Supplement to MAG Detail P1391, Type A only.

When crossing City of Phoenix facilities the Contractor is required to pothole the facilities and shall maintain required clearances outlines below.

A six (6) foot minimum horizontal separation from any underground utility shall be provided for sewer mains, sewer services, water mains, and water services. The minimum horizontal separation is measured from outside of sewer main, sewer service, water main, or water service to outside of underground utility.

A one (1) foot minimum vertical separation from any dry underground utility crossing shall be provided for sewer mains, sewer services, water mains, and water services. The minimum vertical separation is measured from outside of sewer main, sewer service, water main, or water service to outside of dry underground utility.

A three (3) foot minimum clearance around fire hydrants for any proposed above grade structures.

Level 3

The Contractor must contact the statewide Call-Before-You-Dig System to ascertain the location of underground facilities prior to performing any excavation. Prior to any work being performed by or on behalf of Level 3 all costs associated with the adjustment and/or relocation of the facilities are required to be paid in full to Level 3.

If it is determined that an adjustment and/or relocation of the facilities is necessary to accommodate the project, contact the Level 3 to discuss.

Salt River Project Irrigation

The Contractor shall maintain a two (2) foot minimum clearance from the edge of SRP irrigation pipes. The Contractor shall maintain a four (4) foot minimum clearance from the edge of SRP irrigation structures. The Contractor shall maintain a one (1) foot minimum clearance at SRP irrigation undercrossings.

SECTION 107 LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

107.1 COMPLIANCE WITH LAWS, add the following to the 2016 MCDOT Supplement to the MAG Uniform Standard Specifications:

All other requirements of Section 107 in the 2016 MCDOT Supplement to the MAG Uniform Standard Specifications will remain in effect.

Contractor, in connection with any activity under this Contract, shall not discriminate against any person on the grounds of race, color, religion, sex, national origin, age, disability, political affiliation or belief. Contractor shall include a clause to this effect in all subcontracts. Contractor shall also comply with all applicable provisions of the Americans with Disabilities Act of 1990.

Contractor and its subcontractors and their respective employees, agents, and representatives, when performing the work described in the Construction Specifications, shall comply with all rules and regulations set forth by the County, pertaining to the safety, loss control and environmental regulations, and shall perform the work in compliance with governmental laws and regulations pertaining to occupational health, and environmental protection, including any local sound control and noise level rules, regulations and ordinances which apply to any work performed pursuant to the contract.

Contractor is solely responsible for jobsite ("site") conditions during all phases of construction, beginning with Contractor's mobilization of equipment and/or personnel until the work has been accepted by the Engineer and a certificate of completion has been issued by the County. Contractor's responsibility for the site during the period specified above shall not be limited to Contractor's working hours and shall include but not necessarily be limited to the following:

- Physical condition of the site;
- Safety of Contractor's personnel at the site and all other persons entering the site or areas adjacent to the site;
- Security of Contractor's equipment and material; and
- Reasonable aesthetic appearance of the site.

Contractor shall ensure that internal combustion equipment is operated with a muffler of a type recommended by the manufacturer.

The Contractor shall ensure that contract operations are in compliance with procedures and requirements of the Maricopa County Air Pollution Control Rules and Ordinances with special attention given to the fugitive dust requirements. The Contractor shall pay any penalties imposed upon MCDOT where the violation is a direct result of actions or inactions by the Contractor, the contractor's employees or subcontractors.

107.1.1 Small Business Enterprise Program (SBE):

It is Maricopa County's policy to endeavor to ensure in every way possible that small business participation firms shall have the opportunity to provide professional services, materials, and contractual services to the County in a nondiscriminatory manner.

107.1.2 Environmental Mitigation Measures:

The Contractor shall adhere to all terms, conditions, and requirements contained in the Environmental Clearance. The Environmental Clearance and all related documents are located in **Appendix B** to these Special Provisions.

During project construction, MCDOT Environmental Program Branch shall be notified at (602) 506-8068 of any proposed changes in scope of work and/or work to be added outside the defined project limits, for evaluation of potential environmental impacts.

Payment for Environmental Mitigation Compliance will be made at the Contract Lump Sum Price. Payment shall be full compensation for performing all activities associated with fulfilling environmental mitigation measures that are not directly included within other pay items. Contractor will be compensated for this contract item at a rate of 15% of the contract lump sum with the first progress payment. The remaining 85% of the contract amount will be pro-rated over the entire length of the project.

107.2 PERMITS, add the following:

It is the Contractor's responsibility to obtain all permits and licenses, pay all fees, charges, and taxes and prepare all required notices for the lawful execution of the work. No separate measurement or payment for permits will be made with this project.

Permits for earth moving may be obtained from Air Pollution Control, Maricopa County Department of Environmental Management, 1001 North Central Avenue, Suite 100, Phoenix, Arizona 85004, Telephone Number (602) 506-6010, website <http://www.maricopa.gov/aq/> or <https://www.maricopa.gov/1919/Dust-Control-Permit-Applications-Rule-31>. A copy of the earthmoving permit and dust control plan shall be submitted to the Engineer prior to commencement of any earthmoving activities.

In addition to Maricopa County permits, the Contractor shall comply with all City of Phoenix and City of Tolleson permitting and business licensing requirements, fees and annual renewals and the permits cited below.

Asbestos/National Emission Standards for Hazardous Air Pollutants (NESHAP) will be necessary for this project and can be obtain through the following websites:

(<http://www.maricopa.gov/1701/Asbestos>) NESHAP Form:

(<http://www.maricopa.gov/DocumentCenter/View/5108>)

107.2.1 AZPDES (NPDES) Construction General Permit Requirements, add the following to Section 107.2.1 of the 2016 MCDOT Supplement to the MAG Uniform Standard Specifications:

This project is subject to the Arizona Pollutant Discharge Elimination System (AZPDES) program's permit requirements for construction sites. The Contractor is responsible for obtaining applicable permits and complying with permit requirements.

All other requirements of Section 107 in the 2016 MCDOT Supplement to the MAG Uniform Standard Specifications will remain in effect.

107.2.2 Compliance with Maricopa County MS4 Stormwater Regulation:

This project is subject to the Maricopa County Stormwater Quality Management and Discharge Control Regulation. The Contractor shall be responsible for all activities associated with obtaining construction permit approvals, construction permit compliance, post-construction permit application and payment of fees relating to and established by the regulation. Permit requirements and related information are available from the following internet website:

www.maricopa.gov/Stormwater

Unless a construction permit transfer is authorized by the Engineer the Contractor shall be responsible for the post-construction permit application and fees, and obtaining termination of coverage. The responsibility of obtaining post-construction permit coverage and post-construction permit compliance are not Contractor responsibilities.

Fines and penalties imposed by Maricopa County for Contractor's failure to comply with the Maricopa County Stormwater Quality Management and Discharge Control Regulation shall be paid by the Contractor.

Payment for Compliance with Maricopa County MS4 Stormwater Regulation will be made at the Contract Lump Sum Price. Payment shall be full compensation for performing all activities and payment of all fees including fines and transfer fees (if applicable) associated with the Maricopa County Stormwater Quality Management and Discharge Control Regulation not directly included within other pay items. Contractor compensation at 50% of the contract amount will be allowed with the first progress payment. The remaining 50% of the contract amount will be paid with the final project payment.

SECTION 111 - ENGINEER'S OFFICE FACILITIES

111.1 DESCRIPTION, add the following:

Refer to Section 111.1 of Package I (TT0345)

SECTION 470 – GENERAL REQUIREMENTS FOR TRAFFIC SIGNAL AND INTERSECTION LIGHTING SYSTEMS

470.5 MARICOPA COUNTY FURNISHED MATERIAL AND EQUIPMENT: add the following:

MCDOT will furnish the following materials and equipment for installation:

Description	Unit	Quantity
Traffic Signal Type A Pole – 14'	EACH	4
Traffic Signal Type Q Pole with 25' Mast Arm	EACH	1
Traffic Signal Type Q Pole with 30' Mast Arm	EACH	1
Traffic Signal Type R Pole with 45' Mast Arm	EACH	1
Traffic Signal Type R Pole with 55' Mast Arm	EACH	1
All Luminaire 20' Mast Arms and Luminaires	EACH	4
All Signal and Pedestrian Signal Indications Including Mounting Assemblies	EACH	26
Controller Cabinet Assembly	EACH	1
Combination Electrical Service Pedestal and Battery Back-up System	EACH	1
Metro Street Name Signs	EACH	4
Pedestrian Push Buttons with Signs	EACH	8
Video Detection Equipment Assembly Including Cables and all Components	EACH	4
Field Hardened Ethernet Access Switch	EACH	1

Traffic signal material and equipment furnished by Maricopa County Department of Transportation or tested by Maricopa County Department of Transportation will be made available at the following address:

Maricopa County Department of Transportation Warehouse
Procurement Distribution Center
2222 South 27th Avenue
Phoenix, Arizona 85009-6357

The Contractor shall contact the MCDOT Traffic Signal Supervisor at (602) 506-8660 five working days prior to desired pick-up date to confirm the item list, availability, date and time. Warehouse hours for pick-up and delivery are 6:00 am – 2:00 pm Monday through Thursday. A map of the warehouse loading area will be made available upon request.

SECTION 480

INTELLIGENT TRANSPORTATION SYSTEM GENERAL REQUIREMENTS

CONSTRUCTION:

480.3.5 ITS Inventory:

The Contractor shall verify the condition of the existing MCDOT ITS infrastructure within the project limits and inventory the condition of the infrastructure for structural and functional integrity prior to the start of construction activities. The cost for conducting the inventory and the traffic control for the inventory shall be included in the Mobilization bid item (109.09000). Traffic control plans shall be submitted to the Engineer for approval. The Contractor shall allow a minimum of 14 days for the Engineer to review and approve the traffic control plans for the inventory. The Contractor shall notify the Engineer in writing of the time and place of the inventory. The written notification shall be a minimum of two days prior to beginning the inventory. The Engineer may elect to accompany the Contractor during the inventory.

As part of the inventory, the Contractor shall also verify the condition of the existing underground splice closure to be modified as shown on the Plans.

The Contractor shall prepare a list of the results of the inventory detailing needed repairs, replacement or modification, location of the damage and provide the list to the Engineer for review and approval prior to excavation. Existing damage, required repairs or modifications not indicated by the Contractor as a result of the inventory and subsequently brought to the attention of the Engineer shall be repaired by the Contractor and compensated by MCDOT at the Contractor's actual cost with no mark up. All required work to repair ITS infrastructure damage found during the inventory and listed by the Contractor shall be completed prior to beginning any fiber optic cable installation.

The Contractor shall ensure that all MCDOT ITS infrastructure within the project limits remains operational and active during construction. No disruption to service will be permitted as a result of construction activities. If the Contractor identifies that a disruption in service is required to perform the inventory, the Contractor shall submit a list of devices where the disruption will occur to the Engineer.

The work to repair damaged ITS infrastructure found during the inventory shall be completed under the allowance number 480.00000.

SECTION 482 FIBER OPTIC CABLE AND EQUIPMENT:

482.3.2 Splicing and Terminations, add the following:

The Contractor shall modify the existing underground splice closure at the location shown on the project Plans. The Contractor shall use caution when opening the existing splice closure to ensure that the condition of the existing fiber optic cabling, splice closure components, and fusion splices are not adversely affected.

The Contractor shall perform fusion splicing within the existing splice closure per the requirements of Section 482.3.2(A). The existing splice closure shall be closed and sealed after fusion splicing has been completed.

Testing of the completed fusion splices within existing splice closures shall be per Section 482.4.3(B).

482.8 MEASUREMENT, add the following:

Modifying the existing splice closure will be measured as a unit for each splice closure successfully modified.

Opening, closing, and sealing the existing splice closure, furnishing the hardware for and performing fusion splicing, and testing fusion splices within the existing splice closure shall not be individually measured, they are considered included as part of other pay items.

END OF SPECIAL PROVISIONS

APPENDIX A

City of Phoenix Design Standards

CITY OF PHOENIX DESIGN STANDARDS:

The signing and pavement marking for MC 85 and the southern leg of 79th Avenue shall meet City of Phoenix Standard Specifications and Standard Details. All sidewalk shall meet City of Phoenix Standard Specifications and Standard Details. This work shall conform to the material and construction requirements of the City of Phoenix Standards except as may be superseded or supplemented by these Special Provisions.

The Contractor shall contact the City of Phoenix Signal Shop Foreman for the fire pre-emption cables at least two weeks prior to desired pick-up date to confirm the item list, availability, date and time. The installation of the pre-emption cables shall be covered under item 478.01000. Pre-emption detection shall be installed in the future.

City of Phoenix	Contact Name	Work Phone Number	Mobile Phone Number
Traffic Services Superintendent	Kip Carroll	602-256-3119	602-908-0289
Signal Shop Foreman	Chris Parkllan	602-509-2423	

TT0553 SPECIFICATIONS

APPENDIX B

Environmental Mitigation Measures


MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION

ENGINEERING DIVISION

MEMORANDUM

DATE: May 8, 2017

TO: Benjamin Markert – Traffic Systems Management Division
Randy Dunsey – Transportation Systems Management Division
Alfred Erives – Permitting, Construction and Inspections Division
Ed Williams – Engineering Division

FROM: Joe Pinto – Environmental Program Branch Manager 
Engineering Division

SUBJECT: MC 85 at 79th Avenue Traffic Signal
W.O. Number: TT0553
Environmental Clearance

The Environmental Program Branch has evaluated this project for environmental impacts and has determined that this project will not adversely affect the surrounding environment. No further environmental evaluation is required.

If there is a change in project termini or work is to be added outside of the original project scope or limits, MCDOT's Environmental Program Branch must be contacted to evaluate potential impacts.

The following mitigation measures will need to be followed and included in the Project Final Plans and Specifications:

Maricopa County Department of Transportation Responsibilities

1. The Maricopa County Department of Transportation Project Manager will contact the Maricopa County Department of Transportation Environmental Program Branch between sixty (60) and ninety (90) calendar days prior to Construction Notice to Proceed to ensure the Environmental Clearance is still valid.
2. The Engineer will notify the Maricopa County Department of Transportation Environmental Program Branch Manager (602.506.8068) at least sixty (60) days prior to the beginning of construction to schedule a burrowing owl survey.

Maricopa County Department of Transportation Responsibilities (continued)

3. The Maricopa County Department of Transportation Environmental Program Branch will arrange for a qualified biologist to conduct a preconstruction survey for burrowing owls within thirty (30) days of construction. The biologist shall possess a burrowing owl survey protocol training certificate issued by the Arizona Game and Fish Department.
4. If burrowing owls are found during the survey, the Maricopa County Department of Transportation Environmental Program Branch will arrange for a licensed wildlife rehabilitator to remove all burrowing owls, nestlings, or eggs that will be impacted by construction and have the contractor avoid construction activities within 100 feet of active burrows.
5. If the concrete sidewalks, headwalls, and/or canals are to be removed/disturbed within the scope of this project, these structures will be analyzed for the presence of asbestos-containing materials.
6. Any suspect asbestos-containing materials will be analyzed for the presence of asbestos-containing materials by an Asbestos Hazard Emergency Response Act certified asbestos building inspector.
7. Any painted surfaces, including the roadway striping paint anticipated to be disturbed within the project area will be analyzed for lead-based paint prior to disturbance.
8. Traffic control measures will be communicated with the public, local officials, and the media prior to and during construction activities. Communication may include, but is not limited to, media alerts, direct mailings to area businesses and property owners, information on variable message signs, and paid newspaper notices.
9. A construction notice will be provided to residents and businesses in the general project area at least fourteen (14) calendar days prior to construction.
10. All disturbed soils that will not be landscaped or otherwise permanently stabilized by construction will be stabilized by an approved method.

Contractor Responsibilities

1. If any burrowing owls are located during work activities, the contractor shall cease work within 100 feet of any area occupied by burrowing owls and contact the Engineer. The Engineer will contact the Maricopa County Department of Transportation Environmental Program Branch Manager (602.506.8068) to arrange for removal of all burrowing owls, nestlings, or eggs that will be impacted by construction.
2. If any burrowing owls are found during the preconstruction survey, the contractor shall avoid construction activities within 100 feet of active burrows until the Maricopa County Department of Transportation Environmental Program Branch Manager authorizes the contractor to proceed.
3. To prevent the introduction of invasive species seeds, all construction equipment shall be washed at the contractor's storage facility prior to entering the construction site.
4. To prevent invasive species seeds from leaving the site, the contractor shall inspect all construction equipment and remove all attached plant/vegetation and soil/mud debris prior to leaving the construction site.
5. All disturbed soils that will not be landscaped or otherwise permanently stabilized by construction shall be stabilized by an approved method.

Contractor Responsibilities (continued)

6. The contractor shall execute Best Management Practices associated with the Arizona Pollutant Discharge Elimination System.
7. If it is determined that the above ground storage tank and/or the dumped material will be impacted by the project, the Maricopa County Department of Transportation Project Engineer shall be notified and the above ground storage tank/dumped material shall be removed from the site by a licensed contractor.
8. Avoidance or proper regulatory closure unreported or undiscovered wells located within the project limits that may be impacted by construction is required.
9. If leaking is observed from a pad mounted transformer, the utility company shall be contacted for maintenance and clean-up.
10. If suspected hazardous materials are encountered during construction, work shall cease at that location and the Engineer shall be notified. The Engineer will notify the Maricopa County Department of Transportation Hazardous Material Specialist (602.506.1317) to arrange for the proper assessment, treatment, or disposal of those materials.
11. Construction of the project shall comply with Maricopa County Air Quality Rule 310 - Fugitive Dust Sources and Details and any required air quality permits.
12. Construction impacts such as equipment noise, dust, and fumes shall be monitored and controlled. The contractor is required to observe and comply with all air pollution ordinances and regulations from those agencies having jurisdiction.
13. The contractor shall contact local emergency services (hospital, fire, police, and ambulance services) at least fourteen (14) calendar days in advance of construction to notify the emergency service of potential construction-related delays.
14. The contractor shall notify the public, business owners, and emergency services (hospital, fire, police, and ambulance services) of any temporary access change or road closures during construction at least fourteen (14) calendar days in advance of the change.
15. The contractor shall provide copies of all emergency service notifications to the Maricopa County Department of Transportation on the same day the notifications are made.
16. At least fourteen (14) calendar days prior to construction, the contractor shall place advance-warning signs at locations designated by the Engineer to notify motorists, pedestrians, and bicyclists of construction-related delays and closures.
17. With the exception of temporary, short-term closures (less than 4 hours) of driveways, the contractor shall maintain driveway access throughout construction. If a given property has multiple driveways, at least one shall remain open at all times.
18. If previously unidentified archaeological, historical, or paleontological features are encountered during activity related to the construction of the project, the contractor shall stop work immediately at that location, take all reasonable steps to secure the preservation of those resources, and notify the Engineer. The Engineer will notify the Maricopa County Department of Transportation Cultural Resources Manager (602.506.8082) to evaluate the significance of the resources and determine the appropriate next action.