



SPECIAL PROVISIONS
INDUSTRIAL WATERLINE REPLACEMENT PROJECT
PREPARED BY WOODSON ENGINEERING & SURVEYING, INC.
CITY OF FLAGSTAFF PROJECT NO. 03-19008

INTRODUCTION

Modifications to the MAG Specifications, Arizona Department of Transportation Specifications (ADOT), and to the Preceding General Provisions are made in the Special Provisions and take precedence over the MAG and ADOT Specifications and the General Provisions. Where there is no conflict between MAG Specifications, ADOT Specifications and the General Provisions, the Special Provisions are to be construed as being additions to the Specifications. In cases of conflict between the other Specifications and the Special Provisions, the Special Provisions are to be construed as supplanting only the conflicting portions of the other Specifications.

MAG UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE GENERAL PROVISIONS ARE HEREBY AMENDED TO INCLUDE THE FOLLOWING:

PART 100 – GENERAL CONDITIONS

SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS

102.4 EXAMINATION OF PLANS, SPECIAL PROVISIONS AND SITE OF WORK:

Revise the second paragraph to read:

The bidder shall examine the site of the proposed work and all documents pertaining to the work. It is mutually agreed that the submission of a proposal shall be considered prima facie evidence that the bidder has made such examination and is familiar with the character, quality and quantity of the work to be performed and material to be furnished.

SECTION 104 – SCOPE OF WORK

104.1 WORK TO BE DONE

104.1.1 General

(revise to include the following)

The Industrial Waterline Improvement project generally includes the following components:

- Replace 16” water main with new 16” DIP in Industrial Street
- Connect to existing waterlines.

104.1.2 MAINTENANCE OF TRAFFIC

(revise to include the following)

The detailed traffic control plan shall be submitted to The Community Development Program and approved by the City of Flagstaff prior to the start of work. The plans shall include provisions for access to all adjacent private properties within the project area. Through advance written notice and coordination with the City's Project Representative and the property owners, the Contractor may temporarily limit a vehicular or pedestrian access to a property only if acceptable alternate access is provided.

The Contractor shall be required to provide no less than one (1) week advance written notice of all street closures and traffic restrictions, and commencement of construction activity to all affected property owners, business owners, residents, and the surrounding neighborhood as well as to the Engineer. The City Representative will indicate the limits of the notification. The notice shall include the projected date, and duration of the closure and alternate detour routes. Each notice shall include the Contractor's name, contact person and local telephone number as well as the Owner's name and telephone number.

Existing pedestrian and bicycle facilities shall be continued through or detoured around the construction zone.

Transit stops and pedestrian access thereto shall be maintained. Should construction occur during the school year, any existing school bus stops will need to be temporarily relocated to another location acceptable to the Flagstaff Unified School District Transportation Director. The Contractor shall coordinate any school bus relocations through the Flagstaff Unified School District Transportation Director, Joe Martin at 928-527-2300.

Special Access Requirements:

The Contractor shall maintain access to all side streets, access roads, driveways, alleys, parking lots and to adjacent businesses at all times during their hours of operations. This includes any home-based businesses within the residential area. Access to all residential driveways shall be provided during all non-working hours. Where a property has more than one driveway, no more than one access will be restricted or closed at one time. Should it be necessary to close access to private property, business, driveways or alley entrances, the closure must be for as short a time as possible and be restored at the end of the work shift. If primary residential or business access cannot be restored, the Contractor shall provide an alternative, which will be coordinated with the resident/business and pre-approved by the Owner prior to any restrictions being implemented. The contractor shall coordinate work with the owners so that business access is not impeded.

Sanitation Pickup:

Regular sanitation pickup in the area of this project is scheduled every Wednesday and Friday. When construction activity interferes with sanitation pickup, the Contractor shall provide for sanitation vehicle access to the affected properties or relocate the trash containers where access is acceptable. Contact the Solid Waste Services of the Public Works Department at 928-213-2110.

Traffic Control and Safety:

At the time of the Pre-construction Conference, the Contractor shall designate an employee, other than the Project Superintendent, who is well qualified and experienced in construction traffic control and safety, to be available on the project site during all periods of construction to coordinate and maintain safe barricading whenever construction restricts traffic. The contractor shall designate and provide the contact information of one person who shall be available during non-construction hours

in case of any traffic control and/or safety items that need to be handled in an urgent manner. This representative must be fully authorized and equipped to correct unsafe or excessively inconvenient conditions on short notice per Section 105 of MAG including nights, weekends and holidays. Traffic control shall include pedestrian as well as vehicle traffic.

Public Involvement:

At the time of the Pre-construction Conference, the Contractor shall designate an employee who is responsible for coordination with the public, including but not limited to property owners, business owners, and tenants. This person shall be qualified and experienced in public coordination during a construction project and shall be available during all periods of construction to coordinate construction work with businesses and residents and address any issues. The Contractor shall schedule night and weekend work as needed to reduce construction impacts to residents and businesses.

Emergency Access:

All roadway closures shall be coordinated by the Contractor with the City's Project Representative at each weekly meeting or at least 72 hours in advance of the roadway closures. The Contractor shall submit the street closure information to the Fire Department and Police Department.

U.S. Postal Service Access:

The Contractor shall be responsible for maintaining access for Postal Service within the project area at all times. The Contractor shall coordinate this work to avoid interruption of mail service. Mailboxes shall be protected in place. Should an existing mailbox be damaged by construction activity, the Contractor shall promptly remove and replace the damaged mailbox with like kind; including post and foundation, at no cost to the resident or the City. Placement of any mailbox shall be in accordance with USPS requirements.

SECTION 105 – CONTROL OF WORK:

105.2 PLANS AND SHOP DRAWINGS

(revise to include the following)

The Contractor shall include a cover sheet with all submittals listing the submittal items and if there are any deviations from the standard that are being requested for any item OR if they are per specification.

105.2.1 RECORD DRAWING (As-Built Plans):

(revise to include the following)

The Contractor shall be required to provide a record drawing (as-built) set of construction plans that fully describes work that deviated from the approved contract documents. The redlined plan set will be reviewed at each weekly meeting with the City's PM and the Engineer to assure that all deviations from the plans are being noted. The redlined plan set needs to be legible and contain accurate information.

The contractor is responsible for preparing sealed Record Drawings at the conclusion of the project. The record drawings shall be completed per Section 13-06-002-0008 of the City Engineering Standards and the attached COF As-built checklist dated December 12, 2019. They shall be sealed by a registered Civil Engineer in the State of Arizona and approved by the City. The engineer will submit the drawings to ADEQ once they are approved by the City and the contractor is responsible for addressing comments from ADEQ and revising the Record Drawings as required and providing a final mylar set.

105.5.1 WEEKLY CONSTRUCTION MEETING:

(revise to include new sub-section)

The Contractor's Superintendent shall attend weekly construction progress meetings. The Contractor representative shall provide an agenda and be prepared to discuss construction schedule, construction activities projected for the next two weeks, problems, issues and any other pertinent project details as may be required by the City's representative. The Contractor shall provide a two-week look ahead schedule each week.

105.5.2 PROTECTION OF WORK:

(revise to include new sub-section)

The Contractor is required to protect work during inclement weather. The contractor shall grade areas to drain and utilize pumps to remove ponding water immediately during all stages of construction during both working and non-working hours.

105.8 CONSTRUCTION STAKES, LINES, AND GRADES

Unless noted otherwise in the contract documents, the Contractor shall layout the work from the lines, grades and dimensions shown on the drawings. The Contractor shall be responsible for all such work for the duration of the project. Any dimension or grade errors shall be immediately

transmitted in writing to the Owner for clarification, before proceeding with the work.

105.12 MAINTENANCE DURING CONSTRUCTION

(revise to include the following)

The contractor shall trench for utility construction as work proceeds and patch trenches per City of Flagstaff trenching and backfill details.

SECTION 107 – LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC:

107.2 PERMITS:

(revise to include the following)

The Contractor shall be required to obtain City, ADEQ, and other required permits. The Contractor is required to supply his own construction staging yard and comply with the requirements of the Temporary Use Permit.

A Floodplain use permit will be required for this project to be obtained by the Contractor.

City of Flagstaff utility tapping fees are the responsibility of the Contractor. Fee rates may be obtained from the counter. All cost and fees for utility tap work shall be included in the line item for the installation of new services, including but not limited to all labor and materials for installation, repair of any associated abandoned tap and fees. The Contractor shall perform all work and coordinate payment directly with the Water Services Department counter in the City Hall lobby.

The contractor shall make arrangements for and provide all necessary water for his construction operation at his own expense.

107.9 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE:

(revise to include the following)

The Contractor shall take special care to control construction-related dust and noise and to keep the project site cleaned up to the greatest extent possible. The Contractor is responsible to coordinate alternate measures for any impacted operations as mentioned which are acceptable to the parties involved.

Survey monuments and property corners shall be protected and not disturbed unless specifically called out on the plans for replacement. All costs associated with protecting or re-establishing disturbed survey monuments and property corners shall be borne solely by the Contractor.

The Contractor is responsible for replacing and/or restoring landscaping (including but not limited to fences, retaining walls, landscape walls, pavers, aggregate rock ground cover, plantings, sod) and owner improvements associated with the project to a pre-existing condition. All cost shall be included in the bid as incidental to the work, unless specified in the bid schedule or plans.

The Contractor is responsible for removing existing improvements and salvaging items for relocation after the public improvements are finished. This may necessitate close coordination with property owners. The contractor is responsible for replacing materials in like kind. All cost shall be included

in the bid as incidental to the work.

Sections of the curb, gutter and sidewalk not called out for removal and replacement shall be protected in place and the contractor shall take great care in protecting existing improvements. With the exception of areas disturbed by proposed utility work, the existing improvements beyond the edge of pavement shall remain in current condition. The contractor shall schedule a field walk with City staff to designate the limits of concrete removal prior to disturbance.

Pre-Construction Video:

The contractor shall record and provide the City with a pre-construction video (in readable format) of the full construction area prior to mobilization, paying special attention to the private property boundary and private improvements. This video will serve as a record of preexisting conditions and it is in the best interest of the contractor to record a thorough document for the record.

107.9.1 EROSION AND SEDIMENT CONTROL:

(new section)

The contractor is required to comply with all applicable standards and guidelines included with the most current AZPDES Construction General Permit. This includes but is not limited to preparing a Storm Water Pollution Prevention Plan (SWPPP), Implementing and maintaining the necessary Best Management Practices (BMP's) to control erosion and sediment throughout the duration of the project, and filing a Notice of Intent (NOI) prior to starting construction and a Notice of Termination (NOT) after completion of the project. The SWPPP will be paid in partial payments as work progresses. Dust control abatement shall be conducted throughout the duration of project, including weekends.

All disturbed areas shall be hydroseeded in accordance with City of Flagstaff Engineering Standards Section 13-17. A revegetation plan will be required to be implemented and proved successful prior to project closeout. Contractor shall provide 70% successful regrowth per ADEQ permanent stabilization requirements for all areas disturbed during construction. Soil conditioners and watering are required in accordance with 13-17-002-004 and 13-17-002-0005.6 to promote establishment of vegetation.

The contractor shall include documentation of any impacted downstream Stormwater systems in the pre-construction video.

107.11 CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES: (revise to include the following)

The Contractor is responsible for providing written notification to each affected resident at least 48 hours prior to any disruption to water or sewer service in the construction area. The notice must include the exact time of the disruption of service and the expected duration of the loss of service.

The Contractor is responsible for providing written notification to each affected resident at least 72 hours prior to any disruption to reclaimed water service in the construction area. The notice must include the exact time of the disruption of service and the expected duration of the loss of service.

The Contractor shall protect existing water, sewer, and gas service lines where the proposed work

crosses individual service lines.

Not all service lines are shown on the plans and it is the Contractor's responsibility to determine their location in the field at the beginning of the project. The contractor shall coordinate all necessary utility relocations directly with the appropriate utility franchise and provide sufficient time for response prior to construction of the improvements. The Contractor shall verify location, direction and grade of existing sanitary services at the locations where new storm drain is being installed to verify that no conflicts exist. This investigation and coordination is considered incidental to the project.

Protection or repair of existing service lines not in conflict with the work is also considered incidental. In the event that there is a physical conflict between an existing service line and the proposed work, the Contractor shall immediately notify the Engineer of the conflict. The Owner will make a determination as to how the conflict will be resolved. Any extra work required as a result of an unforeseen service conflict will be ordered and paid for in accordance with General Provision Section 104.2.3.

Notify UNS Gas, Inc. prior to excavating the 4" gas main at Sta 13+35, so a visual inspection can be performed. Blake Berner (928) 525-8135, or Gilbert Davis (928) 525-8145.

Locations of underground utilities shown on the plans are to be regarded as approximate only and it is the Contractor's responsibility to determine their location in the field at the beginning of the project.

SECTION 108 – COMMENCEMENT, PROSECUTION AND PROGRESS:

108.4 CONTRACTOR'S CONSTRUCTION SCHEDULE

(revise to include the following)

The contractor is required to submit a revised master schedule with each monthly pay request. The contractor shall be prepared to shift work areas and/or work on clean up, etc. to reduce any stand by time due to conflicts. Standby time less than 3 hours shall not be considered.

108.5 LIMITATIONS OF OPERATIONS:

(revise to include the following)

Work on Saturdays will be permitted, as necessary, as approved by the City's Public Works Inspection Supervisor. Seventy-Two hours advance notice will be required. Work on Sundays and legal City holidays will not be permitted except in emergencies.

108.7 DETERMINATION AND EXTENSION OF CONTRACT TIME:

(revise to include the following)

The Contractor's schedule must include the anticipated adverse weather delays as listed in section 108.7 of Exhibit A, City of Flagstaff Amendments to MAG Standard Specifications for Public Works Construction on a month-by-month basis during the contractor's normal working schedule.

Extension of contract time shall be by calendar day.

SECTION 109 – MEASUREMENTS AND PAYMENTS

109.2 SCOPE OF PAYMENT

(revise to include the following)

The contractor is responsible for all staff per-diem costs.

PART 300 – STREET AND RELATED WORK

SECTION 350 – REMOVAL OF EXISTING IMPROVEMENTS

350.1 DESCRIPTION:

(revise to include the following)

Some of the removal limits may be at existing joints that are not uniform and clean. If this is the case the Contractor shall shift the match line 6” past the joint and sawcut the curb to create a uniform edge. Contractor to document the adjusted stationing of the removal limits on the redlined as-built drawings so that quantities can be verified. Expansion joints will be placed at all connections between existing and proposed concrete.

All sidewalk, curb, asphalt, fencing, and other existing improvements are to be protected unless specifically called out for removal. If additional removals are necessary the Contractor shall coordinate with the City’s Project Manager.

350.2.1 UTILITIES:

(Revise to include the following)

The construction plans may or may or may NOT represent the location of the existing service lines correctly. Existing service lines may or may not run perpendicular to the property and/or main. Investigation will be required to understand which services are active and determine locations of the service runs. The Contractor is required to locate all services and verify that the service is active. This is included in the cost of the work and no additional payment will be made for investigation and locating.

PART 600 – WATER, SEWER, STORM DRAIN AND IRRIGATION

SECTION 601 – TRENCH EXCAVATION, BACKFILLING AND COMPACTION

(revise to include the following)

Removal and replacement of asphalt trench materials and patch is incidental to the item of work. It is the contractor’s responsibility to control the final trench width and no additional payment will be provided for asphalt patching or trench materials.

Soft subgrade materials of low compaction and/or groundwater may be present. No additional payment or time shall be provided for benching trenches or dewatering.

Rock excavation for services is incidental to the work.

SECTION 610 – WATER LINE CONSTRUCTION

(revise to include the following)

A check-valve assembly shall be provided between new and old improvements until all water main testing has been passed in order to protect existing water supply from untested water.

The contractor is responsible for maintaining individual water services during construction of the new improvements. If a water service(s) has to be shut down for more than 8 hours to install the new waterline a temporary service will have to be provided until the new main is tested and inspected. The Contractor is responsible for all testing and materials required to install and maintain the temporary service line. The cost of the temporary service is incidental to the installation of the new main.

Tracer Wires and tapes shall be installed prior to testing the water or sewer main as required by Section 13-09-001-0002.

Water valves shall be adjusted per COF Detail No. 09-03-060 and manholes shall be adjusted per COF Detail No. 9-03-062

All water and sewer materials shall be domestic made.

610.16 MEASUREMENT AND PAYMENT:

(revise to include the following)

Unless otherwise noted in the contract documents, all work and materials to provide complete and operational water and sewer systems is included and incidental to the water and sewer bid items, including but not limited to connections, fittings, bends, elbows, thrust blocks, adjustments and materials for sewer main connections to new mains or manholes, etc. and there will be no separate measurement or payment for these items.

Vertical deflections are quantified on the plans. One vertical deflection is defined as 4-45 degree bends with restrained joints or thrust blocking and the connector pipe between the bends to reach the elevations shown on the plans.