

TITLE: AS216 Replace sidewalks

Contract# N40085-16B-0404
Project# 16M005CN
MACC# 16-0404
MAXIMO# 4595994

TITLE: AS216 Replace Sidewalks

ATTACHMENTS: Maps and Sketches

SCOPE OF WORK: The contractor shall provide all material, labor, equipment, and supervision required to accomplish the following:

General description: The contractor shall demo and replace sidewalks in the vicinity of AS216, AS4120, **TC1160**, 526, and 522. Sketches, measurements, and quantities are provided for reference only. Contractor shall take his own measurements.

Detailed requirements and specifications – The contractor shall:

Contractor shall have all locates performed prior to digging.

Demo:

Sidewalk:

1. Sidewalks to be demo'd and replaced are marked with orange paint and shown on Sketches 1, 2,3,4, and 5.
2. Saw cut all concrete where existing concrete shall abut new concrete.
3. Remove and dispose of sidewalks shown on Sketches 1, 2,3,4,5.
4. Landfill may be used for disposing of concrete.

Installation:

Sidewalks:

1. Form and pour new sidewalks, identified on Sketches 1, 2,3,4,5, to replace existing sidewalks previously demoed.
2. Sidewalks marked ■■■■ on Sketches 2 & 4 shall be 6 inches thick with welded wire. All other sidewalks shall be 4 inches thick with no wire.

Requirements for all new sidewalks identified on Sketches 1, 2, 3, 4, and 5:

1. The contractor shall remove all organic material.
2. The contractor shall demo and haul away all concrete sidewalks.
3. Form and pour all new sidewalks the same width as existing sidewalks. The exception is: the section of sidewalk, 115 x 5 on Sketch 5, located closest to Julian C Smith Road. The original sidewalk is less than 3 ft. wide. The new sidewalk shall be 5 ft. wide.
4. Mechanically compact all areas where sidewalks shall be poured.
5. Sidewalks shall be formed and poured flush with existing sidewalks.
6. Sidewalks shall be formed and poured to prevent standing water.
7. Sidewalks shall be minimum 4 inches thick unless otherwise specified.
8. **Six inch thick sidewalks:** identified on Sketches 2 & 4: {Install, block pavers, approximately 2 inches thick, to support welded wire. Place block pavers a minimum (minimum every 4 ft. on center- both directions- perpendicular), where all new 6 inch sidewalks shall be installed.

9. Install 6 x 6 welded wire the entire length and width of all new sidewalks to within approximately 2 inches of exterior sides of new sidewalks. Welded wire shall be 6x6 10 gage minimum. Ensure wire is pulled approximately 2 inches off ground, when concrete is being poured.]
10. Place 4000-psi fibrillated fiber reinforced concrete.
 - a. Fibrillated fiber reinforced concrete shall be a minimum of 4000-psi with a maximum 4-inch slump.
 - b. The water –cement ratio shall not exceed the manufacturer’s recommendations. The contractor shall provide a batch ticket to the contracting officer, stating the cement water ratio needed for a 4-inch slump and the amount of water added by the receiver.
 - c. Fibrillated fiber reinforcement shall have a minimum ratio of 1-1/2 lbs. per yard.
11. Expansion joints consisting of 3/8 compressible material shall be placed wherever new sidewalk abuts existing sidewalks and at minimum intervals of 50 linear ft.
12. Relief joints:
 - a. Mechanically cut relief joint no further apart than 1.5 times the sidewalk width.
 - b. Relief joints shall be mechanically cut to into the concrete within 24 hours of the concrete being poured.
 - c. Saw cut relief joints to a minimum depth of a 1/4 inch for every 1-inch thickness of concrete poured.
13. Surfaces shall have a broom finish. The only means a contractor shall add water to the surface of the concrete for finishing is with fog spray or wet burlap.
14. Install barricades around all new poured sidewalks, immediately after concrete has been poured and finished, to prevent pedestrians from stepping on wet concrete.
 - a. Barriers shall consist of: vertical (2x2s, or steel rods) 20 ft. on center, around the entire perimeter (both sides) of all new installed sidewalks. 2x4s or steel rods shall be driven minimum 16 inches in the ground with minimum 4 ft. remaining above ground. Install 2 inch wide high visibility tape from post to post around entire perimeter of all new sidewalks.
15. Remove forms, and barricades, no sooner than, seven days after concrete has been poured.
16. Grade areas and apply seed to all disturbed areas where sidewalks have been replaced.

GENERAL REQUIREMENTS:

1. Contractor shall have all locates performed prior to digging.
2. The measurements and quantities furnished here are for reference only.
3. The contractor is responsible for actual field verification prior to bidding, ordering materials and during every step of construction for existing surfaces, dimensions and conditions.
4. All debris shall be removed from the work site at the end of each week.
5. Repair, refinish areas damaged or disturbed by new work to be provided under this contract.
6. Properly remove, haul, and dispose of all debris. The base landfill may be utilized.

SPECIAL SCHEDULING AND ACCESS:

1. Contractor shall coordinate with OICC representative for availability and schedule dates of work.

SPECIAL CONDITIONS:

1. Contractor shall be responsible for installation of physical barricades and signs, mentioned above, to prevent personnel and vehicles from going on all new sidewalks.

SPECIFICATIONS: None

SUBMITTALS: None