100% PLANS

NORTH AMES STREET SIDEWALK IMPROVEMENTS

WEST MATTHEWS STREET TO PARK CENTER DRIVE

TOWN OF MATTHEWS
MECKLENBURG COUNTY, NC

TYPE OF WORK:
GRADING, SIDEWALK, DRAINAGE, PEDESTRIAN CROSSING, EROSION CONTROL

PROJECT LENGTH = 450 FEET
JANUARY 2022
## General Notes

### Abbreviations

- **C-1.1**: General Notes

### Conventional Signs

- **PROPOSED**
- **EXISTING**
- **NEW**

### Conventional Signs

#### Guy Wire
-...#

#### Existing Water Meter
-...#

#### Existing Drop Inlet
-...#

#### Existing Utility Pole
-...#

#### Existing Gas Valve
-...#

#### Existing Sanitary Sewer Manhole
-...#

#### Existing Water Valve
-...#

#### Existing Storm Drain Manhole
-...#

#### Existing Telephone Manhole
-...#

#### Existing Light Pole
-...#

#### Proposed Drop Inlet
-...#

#### Proposed Utility Pole
-...#

#### Proposed Telephone Manhole
-...#

#### Proposed Light Pole
-...#

#### Proposed Sanitary Sewer Manhole
-...#

#### Proposed Electric Manhole
-...#

#### Existing Tree
-...#

#### Existing Fire Hydrant
-...#

#### Proposed Guardrail
-...#

#### Accessible Ramp
-...#

#### Proposed Curb & Gutter, Concrete Driveway, Sidewalk
-...#

#### Proposed Sidewalk Bridging Tree Roots
-...#

#### Silt Fence
-...#

#### Temporary Construction Easement
-...#

#### Permanent Sidewalk Easement
-...#

#### New Property Line
-...#

#### Existing Property Line
-...#

#### Proposed Pavement Removal
-...#

#### Proposed Sidewalk Bridging Tree Roots
-...#

#### Proposed Full Depth Pavement/Sawcut
-...#

#### Proposed Gravel
-...#

#### Tree Protection
-...#

#### Proposed Edge of Pavement
-...#

#### Proposed Pavement Removal
-...#

#### Proposed Guardrail
-...#

#### Accessible Ramp
-...#

#### Proposed Curb & Gutter, Concrete Driveway, Sidewalk
-...#

#### Proposed Sidewalk Bridging Tree Roots
-...#

#### Silt Fence
-...#

#### Proposed Edge of Pavement
-...#

#### Proposed Pavement Removal
-...#

#### Proposed Guardrail
-...#
TYPICAL SECTION NO. 1

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<tr>
<th>BEGIN STATION</th>
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<tr>
<td>0+122.77</td>
<td>0+200.94</td>
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TYPICAL MINIMUM PAVEMENT SECTION

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<td>0+02.77</td>
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<td>1+52.01</td>
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<td>2+76.79</td>
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TYPICAL SECTION NO. 2

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<tr>
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TYPICAL SECTION NO. 3

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<tr>
<td>0+47.87</td>
<td>1+63.47</td>
<td>0.41</td>
</tr>
<tr>
<td>2+10.21</td>
<td>2+76.79</td>
<td>0.41</td>
</tr>
</tbody>
</table>

PAVEMENT SCHEDULE

1. In-place concrete with various cover options.
2. Existing sidewalks and appurtenances shall be preserved.

INSET A

TYPICAL MINIMUM PAVEMENT SECTION

<table>
<thead>
<tr>
<th>BEGIN STATION</th>
<th>END STATION</th>
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<tr>
<td>2+97.61</td>
<td>3+22.72</td>
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</tr>
<tr>
<td>3+22.72</td>
<td>4+48.56</td>
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</tbody>
</table>

**Know what's below.**

**Before you dig.**

**Call before you dig.**

**North Ames Street**

**Sidewalk Improvements**

**Prepared for**

**Typical Sections C-2.0**
NORTH AMES STREET
SIDEWALK IMPROVEMENTS
PREPARED FOR
PLAN AND PROFILE
C-3.1

Know what's below.
Call before you dig.

Hor. Scale: 1"=10'
Vert. Scale: 1"=2'

Contractor to construct sidewalk profile with smooth transition.

Existing grade at centersline of North Ames St.

Proposed grade at back of sidewalk.

Matchline STA: 2+00, see Sheet C-3.2

NORTH
Know what's below before you dig. Call NORTH AMES STREET SIDEWALK IMPROVEMENTS.

DRIVEWAY PROFILES
Know what's below before you dig.

Call RN

NORTH AMES STREET
SIDEWALK IMPROVEMENTS

DETAILS

PARALLEL PARKING STANDARDS

C-5.0

SCALE: NTS

TYPE II-MODIFIED DRIVEWAY

C-5.0

SCALE: NTS

STANDARD CURB AND GUTTER

C-5.0

SCALE: NTS

CURB TRANSITION

C-5.0

SCALE: NTS

PARALLEL PARKING STANDARDS

C-5.0

SCALE: NTS
Call R NORTH AMES STREET SIDEWALK IMPROVEMENTS

DETAIL 1
DITCH AT PIPE OUTLET
(Not to Scale)

NATURAL GROUND

1.0'

NATURAL GROUND

b = WIDTH OF PIPE

Type of Liner = Well-graded mix of Class A, B, 1 and II Rip-Rap w/ Geotextile Fabric

DITCH DETAILS

SCALE: NTS

}| DITCH STATION | RIP RAP ITEMS (CLASS B) |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>STA 000.00</td>
<td>3</td>
</tr>
<tr>
<td>STA 300.00</td>
<td>11</td>
</tr>
</tbody>
</table>
Know what's below before you dig. Call North Ames Street SIDEWALK IMPROVEMENTS.

SCALE 1"=5'
KNOLL STREET SIDEWALK IMPROVEMENTS

PREPARED FOR
ECOSYSTEMS AND COM得到

Notes
EC-02

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGS CONSTRUCTION GENERAL PERMIT

SECTION 6: GROUND STABILIZATION

Site Area Description
Required Ground Stabilization Timelines

Stable within 10 days after causing land disturbance

(a) Perimeter dike, swales, ditches, and perimeter slopes

- High Quality Water (HQW) Zones

7

- Areas with slopes flatter than 3:1

7

(b) Slopes steeper than 3:1

- If slopes are between 50’ and 70’ in length and not steeper than 3:1, 14 days are allowed.

- If slopes are greater than 70’ in length and with slopes steeper than 3:1

7

14

(c) Areas with slopes flatter than 3:1

7

- If slopes are between 50’ and 70’ in length and not steeper than 3:1, 14 days are allowed.

- If slopes are greater than 70’ in length and with slopes steeper than 3:1

7

14

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 30 days after the last sandstamping activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Use 16 oz. bags of topsoil or suitable material that will not degrade the soil. Use topsoil if the techniques in the table below:

Temporary Stabilization

- Temporary grass seed covered with straw or other mulches and sod blankets.

- Hydroseeding

- Spouted erosion control products with or without temporary grass seed

- Permeable surfacing materials or other mulches.

- Plastic sheeting

Permanent Stabilization

- Permanent grass seed covered with straw or other mulches and sod blankets.

- Geotextile fabrics such as permanent soil reinforcement fabric

- Hydroseeding

- Tree transplants with or without planting materials covered with mulch

- Sod blankets and/or stabilized grass cover sod blankets to restore terrain

- Structural materials such as concrete, asphalt or retaining wall

- Treated erosion control products with grass seed

EARTHEN STOCKPILE MANAGEMENT

- Show stockpiles locations on plans. Locate earthen-material stockpiles at least 50 feet away from storm drain inlets, pollutant basins, perimeter sediment control and surface water outlets unless it can be shown that sediment control is not necessary.

- Store stockpiles in low-lying or otherwise protected areas.

- Protect stockpiles with an errosion resistant armor toe or toe pipe with a minimum cover of 3 feet from the toe of stockpiles

- Ensure stockpiles are adjacent to areas that will be disturbed

- Stable stockpiles within the timeframes provided on the sheet in accordance with the NC DWCS Approved Siltation and Sediment Control Measures.

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.

- Dispose of, or recycle settled, hardended concrete residue in accordance with local and state solid waste regulations and at an approved facility.

- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.

- Install temporary concrete washouts per local requirements, where applicable. If an after the fact method of control is to be used, contact your local health department for review and approval. If local standards are not available, use one of the two specific temporary concrete washouts provided on this detail.

- Do not use concrete washouts for dissolving or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.

- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.

- Locate washouts in an easily accessible area, on level ground and install a storm entrance pad just in front of the washout. Additional controls may be required by the approving authority.

- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.

- Remove leavings from the washout at such time as they become 50% capacity to limit overflow event. Ensure the sump, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary washout methods, follow manufacturer’s instructions.

- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill in, wash, and seal any disturbance caused by removal of washout.

HEMIBRACHA, PESTICIDES AND RODENTICIDES

- Do not apply opioids, pesticides and rodenticides in accordance with label restrictions.

- Store pesticides, rodenticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.

- Do not store herbicides, pesticides and rodenticides in areas where it possible or where they may spill or leach into storm drains, groundwater, storm drain inlets or surface water or discharge to any surface water. If a spill occurs, clean area immediately.

- Do not store these materials outside.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.

- Place hazardous waste containers under cover or in secondary containment.

- Do not store hazardous chemicals, drugs or damaged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

Know what’s below. Before you dig. Call KnoxTel today!
PART III  SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be jeopardized, the inspection may be delayed until the next business day on which it is safe to conduct an inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

<table>
<thead>
<tr>
<th>Inspection</th>
<th>Frequency (during normal business hours)</th>
<th>Required Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each E&amp;C Measure</td>
<td>Every 7 days or within 24 hours of rain event</td>
<td>Inspection report</td>
</tr>
</tbody>
</table>

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III  SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&C Plan Documentation

The approved E&C Plan as well as any approved erosion control plan shall be on the site. The approved E&C plan must be kept up-to-date throughout the duration under this permit. The following items pertaining to the E&C plan shall be documented in the manner described:

- Item to Document: Each E&C Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&C Plan.

- Documentation Requirements:
  - Initial and date each E&C Measure is shown on the approved E&C Plan or on the approved E&C Plan. This documentation is required upon the initial installation of the E&C Measure or if the E&C Measure is modified after initial installation.

2. Additional Documentation

In addition to the E&C Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- General permit as well as the certificate of coverage, after it is received.

- Records of inspections made during the past 30 days. The permittee shall record the required information on the Inspection Record Form provided by the Division or a similar inspection form that includes all of the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III  SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
   - They are 25 gallons or more,
   - They are less than 25 gallons but cannot be cleaned up within 24 hours,
   - They cause sheen on surface waters (regardless of volume), or
   - They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 313 of the Clean Water Act (40 CFR 112.35 and 40 CFR 113.5) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or 40 CFR 312.35.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting timelines and other requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division’s Emergency Response personnel at (800) 662-7956, (800) 858-0568 or 919-733-3300.

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>Reporting Timeframes (After Discovery) and Other Requirements</th>
</tr>
</thead>
</table>
| (a) Visible sediment deposition in a stream or wetland | Reporting in writing within 24 hours of, and not later than, the time the discovery was made.
| (b) Oil spills and releases of hazardous substances | Reporting in writing within 30 days of, and not later than, the time the discovery was made.
| (c) Anticipated bypasses | Reporting in writing within 30 days of, and not later than, the time the discovery was made.
| (d) Unanticipated bypasses | Reporting in writing within 30 days of, and not later than, the time the discovery was made.
| (e) Noncompliance | Reporting in writing within 30 days of, and not later than, the time the discovery was made.

Reporting of occurrences shall include, but not be limited to:
- A report of all occurrences that may endanger health or the environment.
- A report of all occurrences that, if possible, have an effect on the quality and effectiveness of the permit.
- A report of actions taken to reduce or eliminate the occurrence.
- A report of the occurrence within 24 hours of the time the discovery was made.

References:
- NORTH AMES STREET SIDEWALK IMPROVEMENTS PREPARED FOR EROSION CONTROL NOTES EC-03
- EFFECTIVE: 04/01/19
- NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING


[2] Permittees shall report the following occurrences:
- Visible sediment deposition in a stream or wetland.
- Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 313 of the Clean Water Act (40 CFR 112.35 and 40 CFR 113.5) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or 40 CFR 312.35.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

[3] After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division’s Emergency Response personnel at (800) 662-7956, (800) 858-0568 or 919-733-3300.

[4] Reporting of occurrences shall include, but not be limited to:
- A report of all occurrences that may endanger health or the environment.
- A report of all occurrences that, if possible, have an effect on the quality and effectiveness of the permit.
- A report of actions taken to reduce or eliminate the occurrence.
- A report of the occurrence within 24 hours of the time the discovery was made.

[5] References:
- NORTH AMES STREET SIDEWALK IMPROVEMENTS PREPARED FOR EROSION CONTROL NOTES EC-03
- EFFECTIVE: 04/01/19
- NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING
I) THE CONTRACTOR SHALL CONTACT DANA STOOGENKE, PROJECT MANAGER (704-708-1245) WITH THE TOWN
U) THE CONTRACTOR SHALL NOT BE ALLOWED TO STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME IN ANY
EXCEPT WHERE IT IS SPECIFIED FOR CERTAIN WORK TO BE PERFORMED BY OTHERS.
PHASE II; THE REQUIREMENTS OF STEP 1 OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO STEP 2
PERTAINING TO ADJACENT LANE CLOSURES DUE TO DROPOFFS.
DROPOFF EXISTS WITHIN THE WORK ZONE, CONTRACTOR SHOULD FOLLOW SECTION 10 OF THE W.A.T.C.H.
PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED CONES OR DRUMS MUST BE USED AT NIGHT. TRAFFIC
PROPERTY THROUGHOUT THE PROJECT LIMITS, INCLUDING REASONABLE INGRESS AND EGRESS FOR
DIRECTED BY THE ENGINEER.
ENGINEER. THE CONTRACTOR SHALL MAINTAIN ANY EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE
PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 17 OF THE W.A.T.C.H. OR AS DIRECTED BY THE
ENGINEER TO ENSURE THAT THE MOTORIST DOES NOT RECEIVE FALSE INFORMATION WHEN TWO OR MORE
CONTROL DEVICES, SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES FOR WORK SITES AND
REQUIRED SIGNS, BARRICADES, WARNING, AND/OR CHANNELIZING DEVICES ARE INSTALLED AND APPROVED
BY THE ENGINEER.

J) THE CONTRACTOR MUST MAINTAIN DURING ALL PERIODS OF CONSTRUCTION ACTIVITY THE ABILITY TO FLAG
OTHERWISE, MAY NEED TO POST MOUNT SIGN WITH 7' MINIMUM VERTICAL
ALTERNATIVE OPTION IS TO PLACE SIGN BEHIND SIDEWALK WHEN POSSIBLE,

H) WORK ON THE PROJECT OR ANY SEPARATE ACTIVITY THEREIN SHALL NOT START UNTIL ALL OF THE
REMOVED AS REQUIRED DURING THE PROGRESS OF CONSTRUCTION AS APPROVED BY THE ENGINEER.

K) THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS AND ADDRESS CONFLICTING
CONSTRUCTION INACTIVITY, ONLY REFLECTORIZED DRUMS MUST BE USED.

F) OFF-DUTY POLICE OFFICERS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO BE PRESENT FOR
CONTROLLING TRAFFIC DURING CONSTRUCTION HOURS.

G) THE CONTRACTOR SHALL MARK ALL HAZARDS WITHIN THE LIMITS OF THE PROJECT WITH WELL-MAINTAINED
CONSTRUCTION SIGNS OR MARKINGS. CONSTRUCTION SIGNS OR MARKINGS MAY BE USED TO STATE WARRANTIES.

E) THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS PRIOR TO BEGINNING ANY WORK THAT WILL REQUIRE THE ILLUMINATION OR PLACEMENT OF SIGNS OR OTHER TRAFFIC CONTROL DEVICES BY THE WORK.

D) CONSTRUCTION PHASING MAY DICTATE THAT TWO OR MORE TYPICAL W.A.T.C.H. DIAGRAMS OR STANDARDS
BE USED IN ONE AREA OF CONSTRUCTION. CHANNELIZING DEVICES ASSOCIATED WITH THESE TYPICALS SHALL
SUPERCEDED BY ENGINEER TO COMPLY WITH PEDESTRIAN REQUIREMENTS OR LATERAL CLEARANCE FROM

C) CONSTRUCTION ITEMS REQUIRED TO BE USED OR PLACED MUST BE IN ACCORDANCE WITH THE NC DOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION(NCDOT) SUPPLEMENT TO THE M.U.T.C.D., THE NCDOT ROADWAY STANDARD DRAWINGS AND

B) THE CONTRACTOR IS TO NOTIFY THE TOWN OF MATTHEWS IN WRITING 10 WORKING DAYS IN ADVANCE OF THE DATE, TIME, LOCATION, AND NUMBER OF WORKERS FOR ALL PHASES OF THE WORK. THE LOCATION AND NUMBER OF WORKERS WILL BE APPROVED BY THE ENGINEER.

A) THE CONTRACTOR SHOULD BE AWARE THAT WHEN THE CONSTRUCTION AREA IS IN OR NEAR A
VERTICAL STREET SEGMENT, THE WORK AREA SHOULD BE RESIGNED TO THAT LINE CLOSURE BEING IN ADVANCE OF THE CLSIA AND MINIMUM STOPPING DISTANCE IS MET.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FINAL PAVEMENT MARKINGS AND

STANDARDS

PROJECT NOTES

1. CONTRACTOR SHALL PREPARE AND INSTALL ALL FINAL PAVEMENT MARKINGS AND

2. DURING THE HOURS OF 7:00 AM-9:00 AM AND 4:30 PM-6:30 PM MONDAY THRU FRIDAY CONSTRUCTION OR

3. CONTRACTOR SHALL SUPPLY AND INSTALL ALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE

4. CONTRACTOR SHALL PLACE IN THE SHOULDER USING W.A.T.C.H. DIAGRAM NO. 2 TO DETAIL THIS SHEET TO

5. CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 10 OF THE

6. CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS PRIOR TO BEGINNING ANY WORK THAT WILL REQUIRE THE ILLUMINATION OR PLACEMENT OF SIGNS OR OTHER TRAFFIC CONTROL DEVICES BY THE WORK.

DIAGRAM 4

DIAGRAM 5

NOTES

TCP-01

PREPARED FOR

STANDARDS

NOTES

DIAGRAM 10

WORK AREA BEFORE AN INTERSECTION (FLAGGER CONTROL)

NOTES
Know what's below. Before you dig. Call RN NORTH AMES STREET SIDEWALK IMPROVEMENTS PREPARED FOR CROSS SECTIONS XS-01
See driveway profiles on sheet C-4.1.

Know what's below before you dig. Call RNORTH AMES STREET SIDEWALK IMPROVEMENTS PREPARED FOR CROSS SECTIONS XS-03