SITE IMPROVEMENT PLANS FOR:

KWIK TRIP #341
ROCHESTER, MN

SITE LOCATION MAP:

SITE AERIAL MAP:

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DM1  DEMO PLAN
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LI  LANDSCAPE PLAN
TC1  TRAFFIC CONTROL PLAN

OWNER:
KWIK TRIP INC.
1626 OAK STREET
LA CROSSE, WI 54602
NATE BYOM
(608) 791-7448
NByom@kwiktrip.com

SITE PLANNER:
INSITES SITE PLANNING
3030 HARBOR LN N, SUITE 131
PLYMOUTH, MN 55447
BOB MUELLER
763-363-6400
Bob@InsitesInc.net

SURVEYOR:
WIDSETH SMITH NOLTING
3777 40TH AVE NW #200
ROCHESTER, MN 55901
(507) 282-0743

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T1

TITLE SHEET

CONVENIENCE STORE 341
ADDITIONAL PARKING
US HIGHWAY 14 & 3RD AVE SE
ROCHESTER, MN
AIR CONDITIONER PAINTED TO BE BLACK OR BLACK BEIGE CONSTRUCTION SETS COORDINATE WITH OWNER FOR FINISHES AND GATE LOCATIONS AND APPROPRIATE SURFACE INSTALLATION.

NOTE: CONTRACTOR TO OBTAIN REPLY UPON GRADING CONTRACTOR PRIOR TO BEGINNING.

NOTE: REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTE: CONTRACTOR TO OBTAIN RIGHT-OF-WAY EXCAVATION PERMIT PRIOR TO BEGINNING.

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION.

NOTE: PLAN PREPARED FROM ALTA/ACSM LAND TITLE SURVEY BY:

NOTE: CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK AND NOTIFY OWNER OF ANY CONFLICT.

NOTE: OWNER OF ANY CONFLICT.

NOTE: REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO CONSTRUCTION.

NOTE: OWNER OF ANY CONFLICT.

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ALL SITE PIPE MUST BE INSULATED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.

EROSION CONTROL MEASURES MAY BE IN PLACE AT ALL TIMES. WHALE DEVICES MUST BE INSTALLED FOR WORK PERIODS. THEY SHALL BE REMOVED AT THE END OF EACH WORK PERIOD. PLACEMENTS HAVE BEEN IN ACCORDANCE WITH THE WATER POLLUTION PERMIT AND PRECIPITATION AND EROSION PROTECTION PLAN. SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULDN'T DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

CONTACT NICK NEWMAN
KWIK TRIP, INC
PO BOX 2107
LACROSSE, WI 54602
608-793-6199

CONSTRUCTION SEQUENCE

*INSTALL EROSION/SEDIMENT CONTROL MEASURES
*INSTALL STORMWATER MANAGEMENT AND/OR POND/SEDIMENT BASINS
*INSTALL STORM SEWER
*INSTALL STRUCTURES
*INSTALL PAVEMENTS
*INSTALL LAWN/ LANDSCAPE
*FLUSH STORM SEWER
*REMOVE EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED

Estimated Preliminary Erosion Control Quantities
(actual quantities subject to change)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock Construction Entrance</td>
<td>-- sq.yd.</td>
</tr>
<tr>
<td>Silt Sack</td>
<td>79 sq.yd.</td>
</tr>
<tr>
<td>Rip Rap</td>
<td>-- cu. yd.</td>
</tr>
<tr>
<td>Silt Fence</td>
<td>88 l.f.</td>
</tr>
<tr>
<td>Rock Filtration dikes</td>
<td>-- l.f.</td>
</tr>
<tr>
<td>Bio Roll/erosion log</td>
<td>12 l.f.</td>
</tr>
</tbody>
</table>

Note: for maintenance purposes contractor shall all sufficient quantities for repair and replacement of erosion control devices throughout all phases of the project's construction.
**GENERAL STORMWATER POLLUTION PREVENTION**

Apply to all work under General Non-Metallic Permit for Construction: Notice from the Minnesota Pollution Control Agency.

**Sediment Control**

- Site clearing, grading, or other land-disturbing activity.
- Sediment basins shall be fenced if side slope exceeds 4:1. Basins shall be inspected after every rainfall event.
- Sediment shall be installed silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind materials in order to prevent spills, leaks, or other discharge. Include secondary containment. Restrict access to storage areas.
- Gasoline, paint, wastewater, toxic materials, and hazardous materials) off-site. Do not allow waste and unused building materials to discharge and leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system.
- If the contractor determines that de-watering will be necessary, a de-watering plan may have to be submitted to the watershed district.

**EROSION CONTROL**

- Aggregate. Place the aggregate in a layer at least 152 mm (6 inches) thick across the entire width of the entrance. Extend the rock blankets uniformly over the soil surface by hand within 24 hours after seeding in accordance with manufacturers recommendations.
- Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site susceptible to disturbance or re-disturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water.
- Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the site, within 200 lineal feet from the property edge, or within 200 feet from the point of discharge to any surface water.
- Prior to any work, contractor shall take the site, document existing conditions (photographs, notes, etc.) and note existing conditions.
- Prior to work beginning, erosion and sediment control measures including (broom, brush, construction equipment, excavator, smoothers, light, equipment, and equipment) of contractors, operators, and sub-contractors shall be checked and found to be adequate in size. This information shall be submitted to the District for review.
- Temporary Rock Construction Entrance

**INVENTORY, IDENTIFICATION, AND IMPROVEMENTS**

- Construction shall bear a signature with the name and title of all above.
- Note and identify all submittals to be placed at site.
- Note all materials that will be removed from the site.
- Note all materials that will be used at the site.
- Note any changes in the conditions of the site.
- Note any changes in the conditions of the site.

**CONSTRUCTION STORMWATER MANAGEMENT SYSTEMS**

- Clean sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.
- Prior to any work, contractor shall visit the site, document existing conditions as necessary(photos, notes, etc) and note existing conditions.
- Document, through photos, plans, notes, and other written documentation any changes in the conditions of the site.
- Contractors must identify the facility that will be using the freshwater systems.
- All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after rainfall events. Maintain a written log of all inspection, maintenance, and repair activities related to erosion and sediment control.
- Inlet protection

**SITE DESIGNATION, IDENTIFICATION, AND IMPROVEMENTS**

- Note all materials that will be removed from the site.
- Note all materials that will be used at the site.
- Note any changes in the conditions of the site.
- Note any changes in the conditions of the site.

**EROSION CONTROL**

- Apply necessary measures to the construction area and land to prevent the spread of debris.

**Sediment Control**

- Sediment basins shall be fenced if side slope exceeds 4:1. Basins shall be inspected after every rainfall event.

**CONSTRUCTION MATERIALS**

- Commercially available materials shall be used for the construction.

**GENERAL SOIL STABILIZATION**

- Seed, sod, and all vegetative cover shall be applied to prevent erosion. If a combination of seed, sod, and all vegetative cover shall be applied to prevent erosion.

**INSPECTIONS, MAINTENANCE, DAILY RECORD AMEND THE SWMP PLAN**

- Continuous monitoring shall be required from commencement date to completion date or any time new activity is started following the completion date. Site entry and exit points shall be monitored periodically for any time new activity is started following the completion date.

**EROSION CONTROL NOTES**

NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT

**CONCERNING STORE condo41**

- 24 hours
- SWP2
- SWP3
- SWP4

**INSPECTION CERTIFICATION**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**EROSION CONTROL CERTIFICATION**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**SOURCES OF FUNDING**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**PROJECT Sites**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**G E N E R A L   S T O R M W A T E R    P O L L U T I O N    P R E V E N T I O N :**

- Responsible Parties

**INSTRUCTIONS**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**G E N E R A L   S T O R M W A T E R    P O L L U T I O N    P R E V E N T I O N :**

- Responsible Parties

**INSTRUCTIONS**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**GENERAL**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**INSTRUCTIONS**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**GENERAL**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.

**INSTRUCTIONS**

- All required inspections for sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their function.
EROSION CONTROL DETAILS

DRAWN BY

SCALE

PROJ. NO.

FAX (608) 781-8960

PH. (608) 781-8988

LACROSSE, WI  54602-2107

1626 OAK STREET

P.O. BOX 2107

KWIK TRIP, Inc.

DATE

SHEET

DESCRIPTION

DATE

NO.

3 0 3 0  H a r b o r  L a n e  N o r t h ,  S T E  1 3 1

P l y m o u t h   M i n n e s o t a   5 5 4 4 7

7 6 3 . 3 8 3 . 8 4 0 0

f a x   7 6 3 . 3 8 3 . 8 4 4 0

SITE PLANNING LANDSCAPE ARCHITECTURE

INC.

CITY COMMENTS

2JULY19

Signed

Date 2JULY19

Robert J. Mueller

Reg. No. 19306

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

GRAPHIC

17341

15SEPT17

CONVENIENCE STORE 341

INSITES 17-028 PM N.N.

ROCHESTER, MN

US HIGHWAY 14 & 3rd AVE SE

ADDITIONAL PARKING

FLOW

FLOW

FLOW

MAXIMUM BALE SPACING- 20' UP TO 2% SLOPE. REDUCE SPACING BY 1' FOR EVERY 1% SWALE GRADE INCREASE UP TO 10% GRADIENT. (10% GRADE- BALE SPACING 10' O.C.)

PROFILE

SECTION

Swale Grade

24' OC

Bury base of roll

12" Bio roll, bury into grade

Ditch checks for drainage swales

Bio Roll Installation

www.americanexcelsior.com/erosioncontrol/

Ditch checks, rock weepers, & rock bio weepers

Insites 17-028

Ditch Checks For Drainage Tunnels

Soil log w/ 24" wood staked 2' O.C. along entire length of log.

18" Type IV geotextile fabric anchored in 6" x 6" trench with 6", 11 ga steel staples at 4' intervals

Type IV geotextile fabric anchored in 6" x 6" trench with 6", 11 ga steel staples at 4' intervals

Staple downstream side of fabric at 2' intervals

Staple downstream side of fabric at 2' intervals

Direction of surface flow

Direction of surface flow

Clean water outflow

Dewatering bag

Aggregate Bed

Bag placed on aggregate bed

Staked bio-roll containment with aggregate filter dike

Aggregate/bioroll dike, stake bio-roll, bury base roll

Whitewashed crushed limestone

Whitewashed crushed limestone

Avoid concentrated flows outward

Established vegetation

Maintain separation from discharge containment and wetlands, water bodies, or storm sewers.

The owner or contractor shall obtain discharge permit, as may be required, prior to any discharging operations discharging from the site. All discharge shall be in accordance with the requirements of the permit.

Maintain filtration & remove sediment or reconstruct containment as necessary when filtration has been compromised.

NOTES:

DEWATERING BAG INSTALLATION, FOR DISCHARGING ERODED, SUSPENDED PARTICLES IN WATER

Pump water inlet

DISCHARGE THROUGH NATURAL VEGETATIVE BUFFER OR FILTRATION MEDIA

UNDISTURBED SOIL

Dewatering bag installation, for discharging eroded, suspended particles in water

Clean water outflow

Clean water outlet

Dewatering bag installation, for discharging eroded, suspended particles in water

Section

Plan view

Notes:

Masonry, cement, or metal may be used for drainage structures. Stone drainage, in general, is preferred.

The owner or contractor shall obtain discharge permit, as may be required, prior to any discharging operations discharging from the site. All discharge shall be in accordance with the requirements of the permit.

MAINTAIN FILTRATION & REMOVE SEDIMENT OR RECONSTRUCT CONTAINMENT AS NECESSARY WHEN FILTRATION HAS BEEN COMPROMISED.

NOTES:

MASONRY MASONRY, PLASTIC, OR METAL MAY BE USED FOR DRAINAGE STRUCTURES.

The owner or contractor shall obtain discharge permit, as may be required, prior to any discharging operations discharging from the site. All discharge shall be in accordance with the requirements of the permit.

REPAIR END OF SWALE AS NEEDED TO PREVENT WATER FROM ERODING END OF SWALE.

REPAIR SWALE GULLIES AS NEEDED TO PREVENT EROSION.

MAINTAIN SWALE CROSSSLOPES.
NOTES:

1. All warning signs, channelizing devices, etc. shall conform to the Minnesota Manual of Uniform Traffic Control Devices (MnDOT). Adjust traffic control as necessary for construction schedule and sequencing.