

**NOTE**

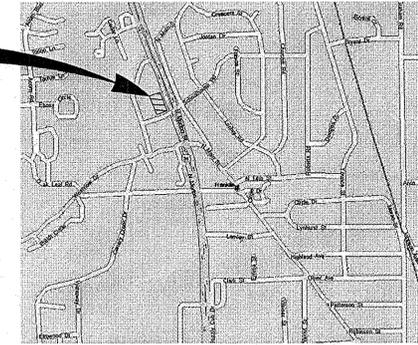
CONTRACTOR SHALL REQUEST A CONSTRUCTION SET PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.

DESIGN BASED ON SURVEY PROVIDED BY DEAN FREDERICK & ASSOCIATES DATED 11-12-2011. CONTRACTOR SHALL VERIFY THAT THESE PLANS ARE THE MOST CURRENT AVAILABLE PRIOR TO BEGINNING CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER/OWNER IMMEDIATELY IF THEY ARE NOT.

# PROPOSED FUEL CENTER KROGER J-956

JOHNSON COUNTY

SUBJECT SITE



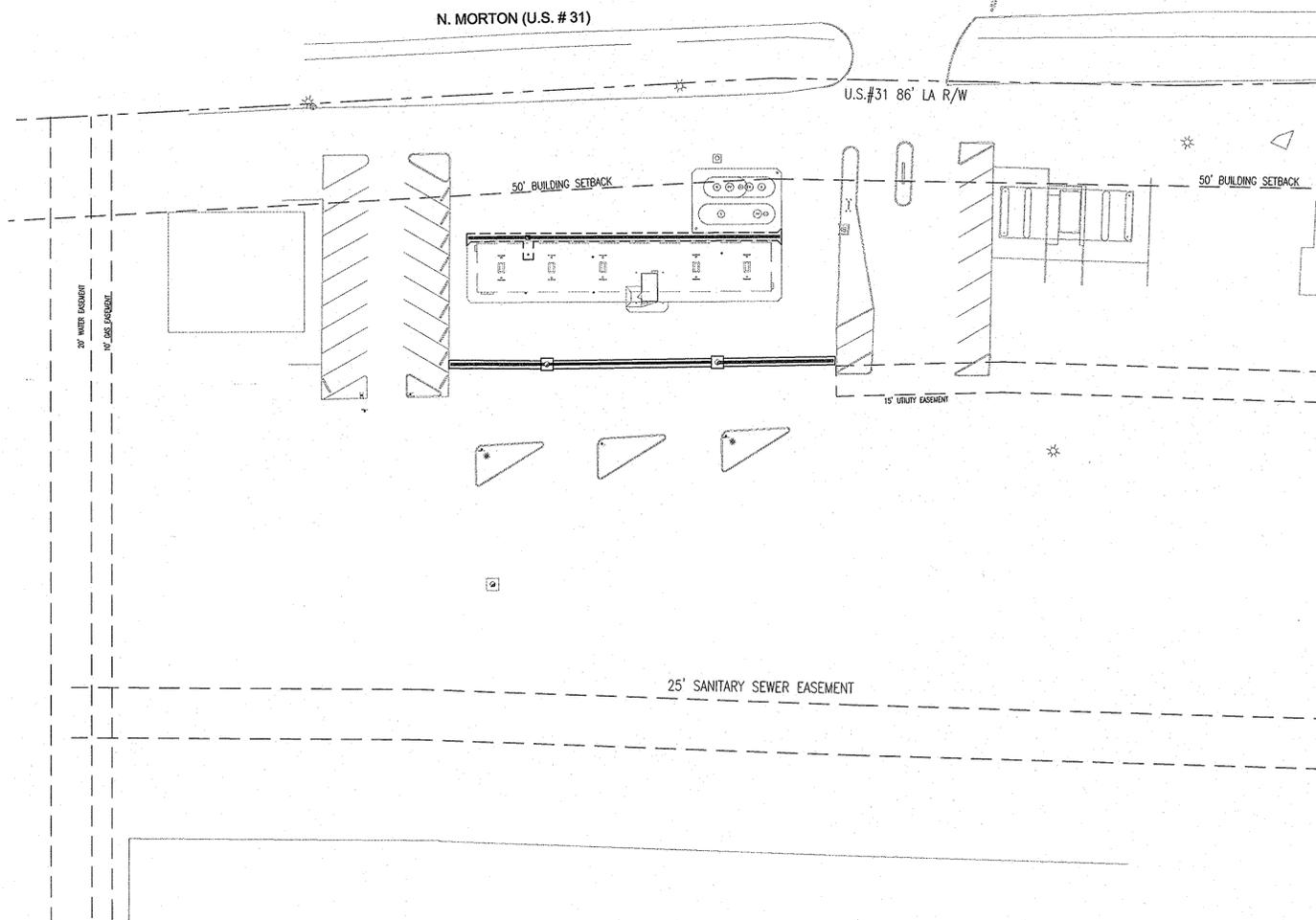
LOCATION MAP  
NO SCALE

**GENERAL NOTES (APPLICABLE TO ALL SHEETS):**

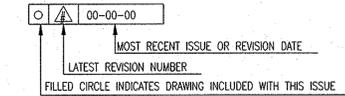
- WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING, AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
- DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO BACK OF CURB, OUTSIDE FACE OF BUILDING FOUNDATIONS, EDGE OF PAVEMENT OR CENTER OF STRUCTURE OR SIGN UNLESS NOTED OTHERWISE.
- NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
- ELECTRONIC CADD FILES ARE AVAILABLE UPON REQUEST FOR THE PURPOSE OF LAYOUT. SSOE GROUP CLAIMS NO RESPONSIBILITY WHATSOEVER FOR THE ELECTRONIC CADD FILES OR FOR INCORRECT INTERPRETATIONS ONCE TURNED OVER TO THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS AND LICENSES REQUIRED TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES (EXCEPT AS SPECIFIED IN THE PROJECT MANUAL), PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.

**LEGAL DESCRIPTION:**

DESCRIPTION  
PART OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, JOHNSON COUNTY, INDIANA MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
COMMENCING AT THE SOUTHEAST CORNER OF SAID HALF SECTION, RUNNING THENCE WEST UPON AND ALONG THE SOUTH LINE OF SAID HALF QUARTER SECTION 17.91 FEET TO A POINT; THENCE DEFLECTING 80 DEGREES 04 MINUTES TO THE RIGHT AND RUNNING NORTH 11 DEGREES 57 MINUTES WEST UPON AND ALONG THE WESTERLY RIGHT-OF-WAY U.S. ROAD NO. 31 A DISTANCE OF 275.92 FEET TO A POINT; THENCE CONTINUING NORTH 44 MINUTES WEST UPON AND ALONG THE RIGHT-OF-WAY LINE 100.0 FEET TO A POINT; THENCE CONTINUING NORTH 14 DEGREES 51 MINUTES WEST UPON AND ALONG SAID RIGHT-OF-WAY LINE 195.2 FEET TO A POINT; THENCE NORTH 15 DEGREES 37 MINUTES WEST UPON AND ALONG SAID RIGHT-OF-WAY LINE 199.50 FEET; THENCE NORTH 23 DEGREES 26 MINUTES WEST 100.00 FEET; THENCE NORTH 17 DEGREES 13 MINUTES WEST 200.00 FEET; THENCE SOUTH 51 DEGREES 34 MINUTES 07 SECONDS WEST 33.02 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 73 DEGREES 35 MINUTES 51 SECONDS WEST 119.13 FEET; THENCE NORTH 19 DEGREES 32 MINUTES 55 SECONDS WEST 186.61 FEET; THENCE NORTH 71 DEGREES 56 MINUTES 02 SECONDS EAST 116.79 FEET; THENCE SOUTH 20 DEGREES 15 MINUTES 46 SECONDS EAST 191.00 FEET TO THE POINT OF BEGINNING CONTAINING 22,203 SQUARE FEET MORE OR LESS, SUBJECT HOWEVER TO ALL LEGAL EASEMENTS AND RIGHT-OF-WAY OF RECORD.



**SHEET INDEX LEGEND**



| ISSUE/REVISION DATE | SHEET NO. | SHEET NAME |
|---------------------|-----------|------------|
|---------------------|-----------|------------|

**GENERAL (BY SSOE)**

|          |      |             |
|----------|------|-------------|
| 12-13-11 | 00.1 | COVER SHEET |
|----------|------|-------------|

**CIVIL (BY SSOE)**

|          |      |                                      |
|----------|------|--------------------------------------|
| 12-13-11 | C01  | EXISTING CONDITIONS AND REMOVAL PLAN |
| 12-13-11 | C1.1 | SITE AND UTILITY PLAN                |
| 12-13-11 | C1.2 | GRADING AND DRAINAGE PLAN            |
| 12-13-11 | C1.4 | SWPPP PLAN                           |
| 12-13-11 | C5.1 | SITE SPECIFIC DETAILS                |

**SURVEY**

|          |      |                             |
|----------|------|-----------------------------|
| 12-02-11 | ALTA | SURVEY (FOR REFERENCE ONLY) |
|----------|------|-----------------------------|

**STANDARD LEGEND**

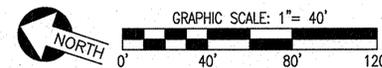
| DESCRIPTION   | PROPOSED | EXISTING |
|---------------|----------|----------|
| STORM         | ST       |          |
| PROPERTY LINE | ---      | ---      |
| CONCRETE      | ■        | ■        |
| MANHOLE       | ●        | ●        |

**OWNER/DEVELOPER**

THE KROGER COMPANY  
5980 CASTLEWAY WEST DRIVE  
INDIANAPOLIS, IN 46250  
CONTACT: DIANA MOORE  
PH: (317) 579-8064

**CIVIL ENGINEER**

SSOE, INC.  
1050 WILSHIRE DR., SUITE 280  
TROY, MI 48064-1526  
CONTACT: BECKY KLEIN  
PH: (248) 643-6222  
FAX: (248) 643-6225



**SSOE**  
SSOE, INC.  
ARCHITECTS • ENGINEERS  
TROY, MICHIGAN 48064  
248.643.6222



| DATE       | DESCRIPTION        |
|------------|--------------------|
| 12-02-2011 | OWNER REVIEW       |
| 12-13-2011 | SITE PLAN APPROVAL |

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |

Project No.: 012-00144-00  
Project Manager: HATHAWAY  
Designed By: KLEIN  
Drawn By: SALA  
Checked By: HARTMAN  
Store No.: J-956  
Address: 1700 NORTHWOOD PLAZA  
FRANKLIN, IN



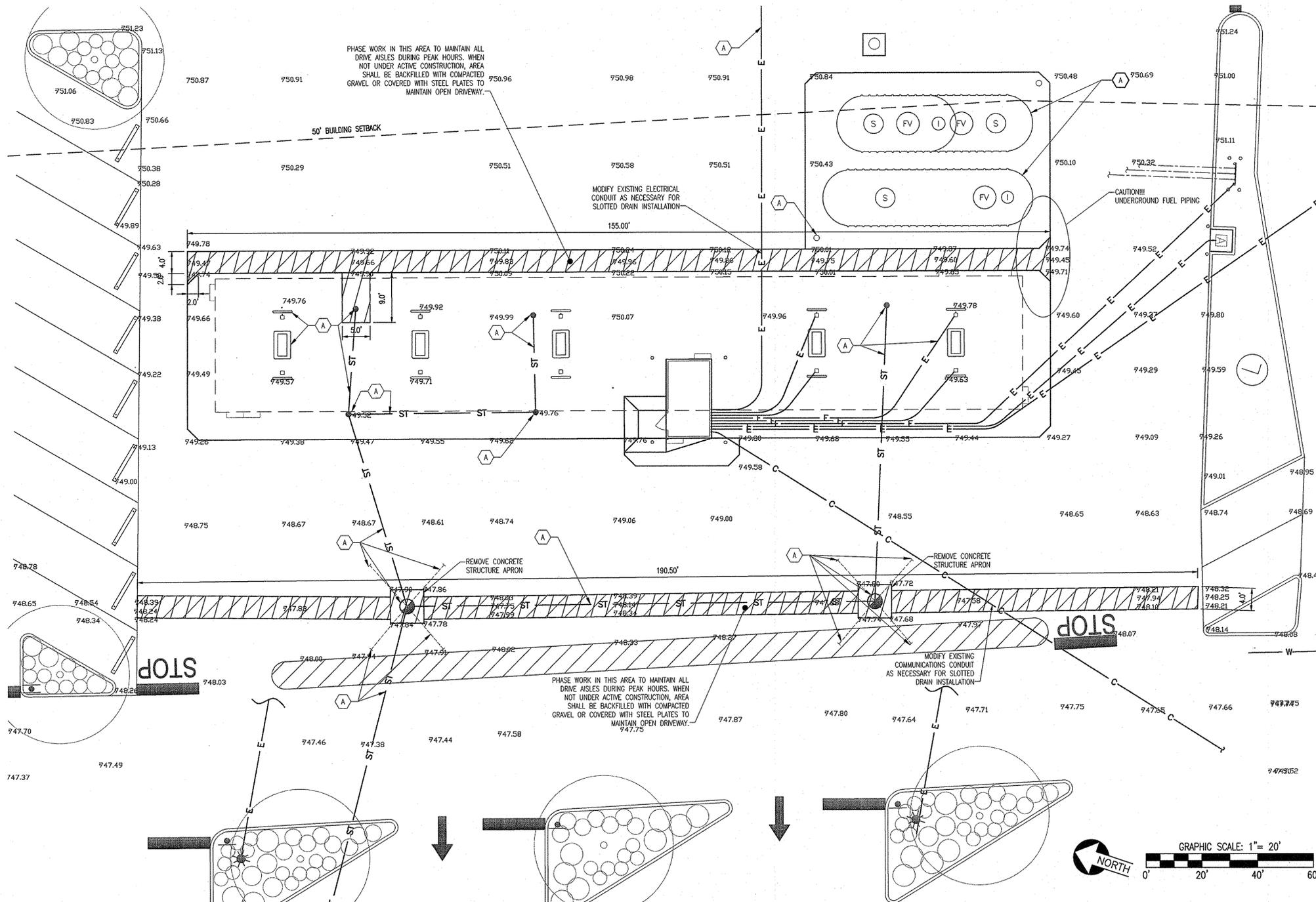
Know what's below.  
Call before you dig.

**COVER SHEET**

Drawing No.:  
**G0.1**

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NOTE TO CONTRACTOR:  
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**BENCHMARKS:**

**LOCAL BENCHMARK**  
 PAINTED CIRCLE WITH PK NAIL ON LEFT UPSTREAM HEADWALL EAST OF US #31 ON BRIDGE OVER CANARY DITCH SET BY IDNR  
 ELEVATION = 753.07 (NGVD 1929)

**SITE BENCHMARK #1**  
 PK NAIL FOUND  
 ELEVATION = 750.95 (NGVD 1929)

**SITE BENCHMARK #2**  
 FINISHED FLOOR ELEVATION  
 QUIZNO'S RESTAURANT  
 ELEVATION = 751.49 (NGVD 1929)

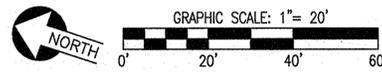
(ADD 0.80 TO ALL ELEVATIONS OBTAIN NAVD 1988)

**NOTES:**

- SOIL EROSION AND SILTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND EARTH MOVING OPERATIONS. THESE CONTROL MEASURES SHALL CONFORM IN ALL RESPECTS TO GOVERNING AGENCY REQUIREMENTS.
- ALL DEMOLITION WORK SHALL CONFORM TO GOVERNING AGENCY DESIGN STANDARDS AND SPECIFICATIONS. COMPLY WITH OSHA REGULATIONS INsofar AS THEY APPLY TO THE REQUIRED WORK.
- WHERE EXISTING PAVEMENT IS TO BE PARTIALLY REMOVED, SAWCUT PAVEMENT FULL DEPTH TO PROVIDE A SMOOTH JOINT WITH PROPOSED PAVEMENT.
- NO ATTEMPT IS MADE TO STIPULATE EVERY REQUIRED ITEM OF REMOVAL AND DEMOLITION EITHER ON DRAWINGS OR IN SPECIFICATIONS. THE CONTRACTOR MUST VISIT THE SITE AND STUDY EXISTING PHYSICAL CONDITIONS, REVIEW DRAWINGS, AND REACH THEIR OWN CONCLUSIONS ON WORK NECESSARY TO ACCOMPLISH INTENDED RESULTS DESCRIBED BY THE PROJECT DOCUMENTS.
- COMPLETELY RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY. ALL COSTS FOR CLEAN-UP, RESTORATION WORK AND OTHER IMMEDIATE OPERATIONS SUCH AS, BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. PERFORM RESTORATION WORK WITHIN 5 DAYS AFTER COMPLETION OF FINAL GRADING.
- SAWCUT FULL DEPTH AND REMOVE EXISTING ASPHALT PAVEMENT AS NEEDED TO INSTALL NEW CONCRETE CURBING, WALKS, UNDERGROUND UTILITIES OR NEW BUILDING. SAWCUTS SHALL BE MADE A MINIMUM OF 1' BEYOND THE ACTUAL NEW CURB OR WALK LIMITS OR AT THE EXISTING NEAREST JOINT.
- REMOVE ALL EXISTING UTILITIES PIPING SERVICE WITHIN THE DESIGNATED WORK AREA UNLESS OTHERWISE INDICATED ON THE PLANS.
- PROMPTLY REMOVE ALL DEMOLITIONS, REMOVALS, RUBBISH, AND DEBRIS FROM THE LIMITS OF THE OWNER'S PROPERTY AND DISPOSE IN A LEGAL MANNER.
- EXCAVATIONS AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- THE CONTRACTOR SHALL RESTORE AT HIS EXPENSE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER AND LOCAL MUNICIPALITY. ALL WORK WITHIN A D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH ALL D.O.T. STANDARDS.
- PROVIDE A DESIGNATED AREA (TO BE APPROVED BY KROGER) FOR STORAGE OF EQUIPMENT AND PARKING OF THE REQUIRED EQUIPMENT. THIS AREA AS WELL AS THE ACTUAL JOB SITE SHALL BE ENCLOSED IN CHAIN LINK FENCING. A TRAFFIC LANE SHALL BE DESIGNATED FOR INGRESS AND EGRESS FROM THE WORK AREA. IF REQUIRED, FLAG MEN SHALL BE PROVIDED TO PROVIDE A SAFE AND EFFICIENT MOVEMENT OF VEHICLES. NO CHANGES TO THE WORK AREA OR TO THE AGREED TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE KROGER CONSTRUCTION MANAGER. THE CONSTRUCTION MANAGER WILL SECURE THE APPROVAL FOR SUCH CHANGES.
- THE WORK INCLUDED SHALL BE PERFORMED AS INDICATED ON THE PLANS. STOCKPILING, STORAGE OF MATERIALS AND ACCESS TO THE SITE SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY STAKES. PROPERTY LINE MONUMENTS SHALL BE PROTECTED BY THE CONTRACTOR AND SHALL BE PRESERVED. ANY STAKES OR MONUMENTS DESTROYED OR DISTURBED IN THE COURSE OF WORK SHALL BE RESTORED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.

**REMOVAL NOTES/LEGEND:**

- (A) EXISTING STRUCTURE AND/OR UTILITY TO REMAIN
- (B) SAWCUT LINE
- (C) REMOVE CONCRETE PAVEMENT



**EXISTING LEGEND**

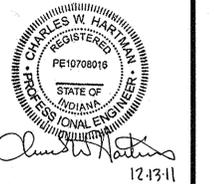
- ELECTRIC ——— E ———
- COMMUNICATION ——— C ———
- STORM ——— ST ———
- PROPERTY LINE ——— P ———
- CLEAN OUT ———
- CATCH BASIN ———
- SIGN ———
- TREES & SHRUBS ———

SURVEY:  
 ORIGINAL SURVEY BY STEVEN B. WILLIAMS ENGINEERING  
 AND LAND SURVEYING DATED 03-17-2010.  
 AS BUILT SURVEY BY DEAN FREDERICKS DATED 11-12-2011

PRIOR TO ANY CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.

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| DATE       | DESCRIPTION        |
|------------|--------------------|
| 12-02-2011 | OWNER REVIEW       |
| 12-13-2011 | SITE PLAN APPROVAL |

| NO. | DESCRIPTION | DATE |
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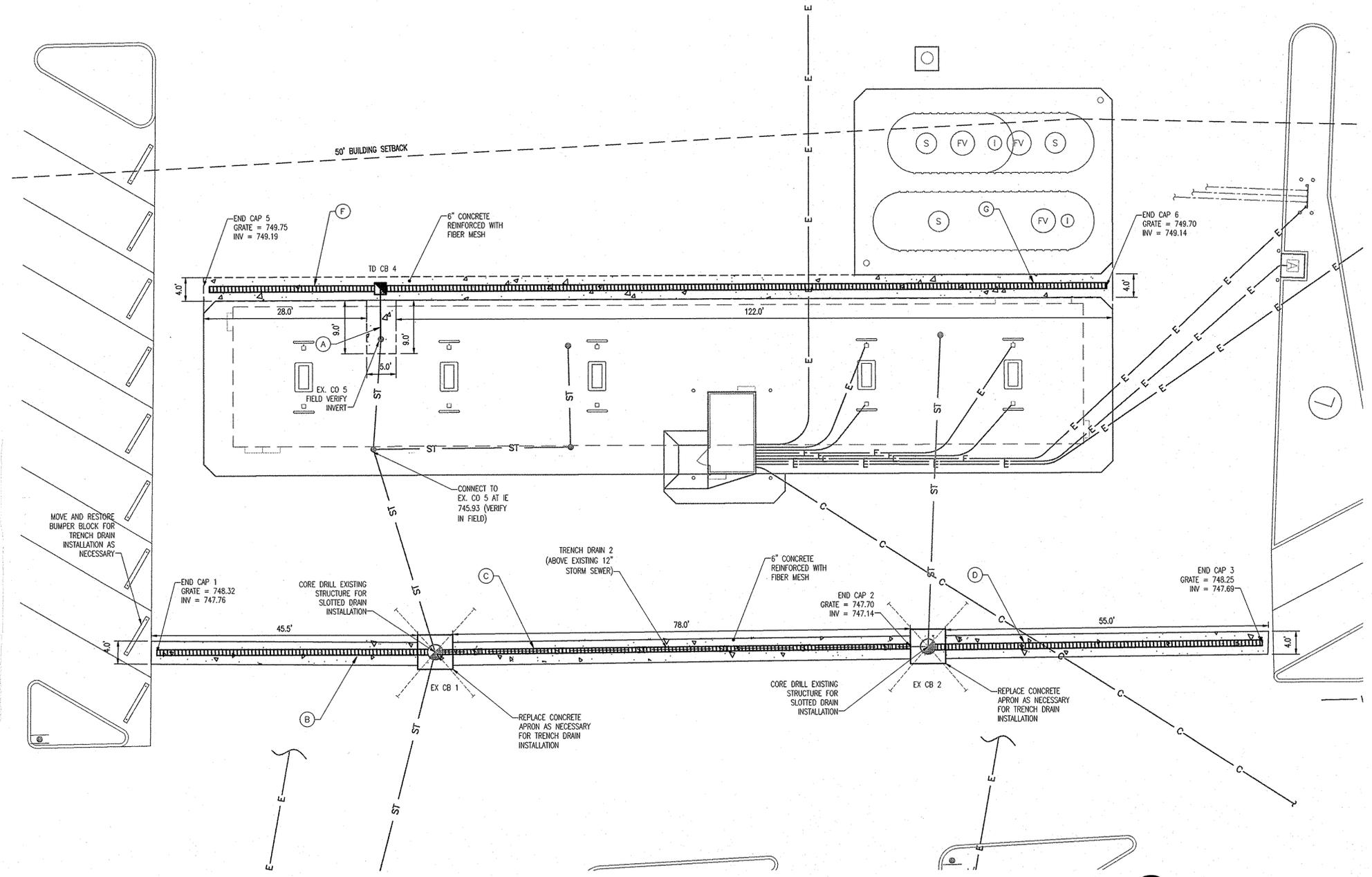
Project No.: 012-00144-00  
 Project Manager: HATHAWAY  
 Designed By: KLEIN  
 Drawn By: SALA  
 Checked By: HARMAN  
 Store No.: J-956

Address: 1700 NORTHWOOD PLAZA FRANKLIN, IN

**EXISTING CONDITIONS & REMOVAL PLAN**

Drawing No.: **CD1**

C:\p\02051680\J956\_CD1.dwg Thu, Dec 13, 2011 - 10:18am



**GENERAL UTILITY NOTES**

- REFER TO GRADING PLAN FOR GRADING NOTES.
- PROTECT AND MAINTAIN CROSSINGS OF OTHER UTILITY LINES.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE GOVERNING AGENCY TO SECURE PERMITS AND FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- PROPER COORDINATION SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL GOVERNING AGENCY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE STATE UTILITIES PROTECTION SERVICE @ 811 AT LEAST 48 HOURS BEFORE THE START OF THE WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN AND SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS GOVERNING AGENCIES AND SHALL SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION AS NECESSARY.
- THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
- CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB-OUTS.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL, IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY.
- IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREON, THE SITE ENGINEER SHALL BE NOTIFIED FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
- UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO GOVERNING AGENCY REVIEW.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- THE TRENCH SHOULD BE BACKFILLED AND THE PAVEMENT RESTORED IN SUCH A MANNER THAT ALLOWS TRAFFIC TO SAFELY TRAVEL ALONG AND/OR CROSS IT DURING NON-CONSTRUCTION HOURS. HOLES SHALL NOT BE ALLOWED DURING NON-CONSTRUCTION HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE TRENCH AREA IN A SAFE PASSABLE CONDITION AT ALL TIMES.

**STORMWATER NOTES**

- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.

**MATERIAL NOTES**

ALL MATERIAL SHALL COMPLY WITH THE LOCAL MUNICIPALITY DESIGN & PROJECT SPECIFICATIONS.

**UTILITY STRUCTURE SCHEDULE**

|  |  |
|--|--|
| EX CB 1<br>ADJUST RIM TO 747.88<br>RM 749.91<br>IE 8" N 746.82 (TRENCH DRAIN)<br>IE 8" S 746.48 (TRENCH DRAIN)<br>IE 8" E 743.41 (EXISTING)<br>IE 12" S 743.41 (EXISTING)<br>IE 8" W 743.31 (EXISTING) | TO CB 4 (ACO FG890)<br>RM 749.91<br>IE 8" N 749.05 (TRENCH DRAIN)<br>IE 8" S 748.22 (TRENCH DRAIN)<br>IE 8" W 747.74 |
| EX CB 2<br>ADJUST RIM TO 747.70<br>RM 749.79<br>IE 8" N 747.14 (TRENCH DRAIN)<br>IE 8" S 746.53 (TRENCH DRAIN)<br>IE 8" E 744.28 (EXISTING)  | EX CO 5<br>RM 749.79<br>IE 8" E 745.93<br>IE 8" W 745.93 (EXISTING - VERIFY IN FIELD)                                |
|  | EX CO 6<br>RM 749.45<br>IE 8" E 745.17 (EXISTING)<br>IE 8" W 745.17 (EXISTING)                                       |

**PIPE SCHEDULE**

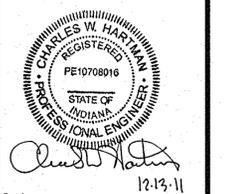
- (A) 9 LF - 8" PVC STORM DRAIN @ 20.62% ± SLOPE
- (B) 48 LF - 8" FG TRENCH DRAIN @ 2.00% SLOPE
- (C) 81 LF - 8" FG TRENCH DRAIN @ 0.82% SLOPE
- (D) 58 LF - 8" FG TRENCH DRAIN @ 2.00% SLOPE
- (E) 29 LF - 8" FG TRENCH DRAIN @ 0.50% SLOPE
- (G) 124 LF - 8" FG TRENCH DRAIN @ 0.87% SLOPE

**UTILITY CONTACTS:**

(STORM)  
CITY OF FRANKLIN  
STORM WATER UTILITY  
2851 N. MORTON STREET  
FRANKLIN, IN 46131  
PH: (888) 736-3640 X1280  
CONTACT: RICHARD DEWITT

**GENERAL CONSTRUCTION NOTES:**

- THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC., MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- ALL CONSTRUCTION SHALL BE CONDUCTED SUCH THAT THERE WILL BE MINIMAL INTERFERENCE WITH STREETS, DRIVES OR WALKS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC. DO NOT CLOSE OR OBSTRUCT STREETS, DRIVES OR WALKS OR USER FACILITIES WITHOUT PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL KEEP EXISTING STREETS, ROADS AND DRIVES CLEAR OF DIRT, DEBRIS AND EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND FOR Dewatering TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED COMPACTION OPERATIONS.
- REVIEW CONSTRUCTION AND PROVIDE TRAFFIC SEQUENCE AND SCHEDULE AT THE PRECONSTRUCTION MEETING WITH KROGER STORE MANAGEMENT, LANDLORD REPRESENTATIVE, AND KROGER REGIONAL FACILITIES MANAGER.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE STATE DOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE ENGINEER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- REFER TO SITE DETAIL SHEETS FOR EROSION AND SEDIMENT CONTROL, STORM DRAINAGE, UTILITY, PAVING, CURBING, AND SIGNAGE DETAILS AS APPLICABLE.
- ALL PAVING AND AGGREGATE MATERIALS AND WORK COMPLETED SHALL BE IN STRICT ACCORDANCE WITH THE STATE DOT SPECIFICATIONS AND STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR BUILDING, WALLS, CONCRETE SLABS, AND UTILITY SERVICE POINT CONNECTIONS AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, CANOPY, ROOF DRAINS, RAISED CONCRETE SIDEWALKS, AND RAMPS.
- TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB.
- FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY THE STATE DOT.
- AGGREGATES AND BITUMINOUS PAVEMENT MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE DOT SPECS. THE CONTRACTOR SHALL SUBMIT AGGREGATE SIEVE ANALYSIS AND A JOB-MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUTS AND SURVEYS REQUIRED TO PERFORM CONSTRUCTION. CADD FILE INFORMATION IS PROVIDED FOR REFERENCE ONLY.
- PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED WITHIN THE ROAD RIGHT-OF-WAY.
- CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREA SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.



| DATE       | DESCRIPTION        |
|------------|--------------------|
| 12-02-2011 | OWNER REVIEW       |
| 12-13-2011 | SITE PLAN APPROVAL |

| NO. | DESCRIPTION |
|-----|-------------|
|     |             |

|                  |              |
|------------------|--------------|
| Project No.:     | 012-00144-00 |
| Project Manager: | HATHAWAY     |
| Designed By:     | KLEIN        |
| Drawn By:        | SALA         |
| Checked By:      | HARTMAN      |
| Store No.:       | J-956        |

Address: 1700 NORTHWOOD PLAZA  
FRANKLIN, IN

**SITE & UTILITY PLAN**

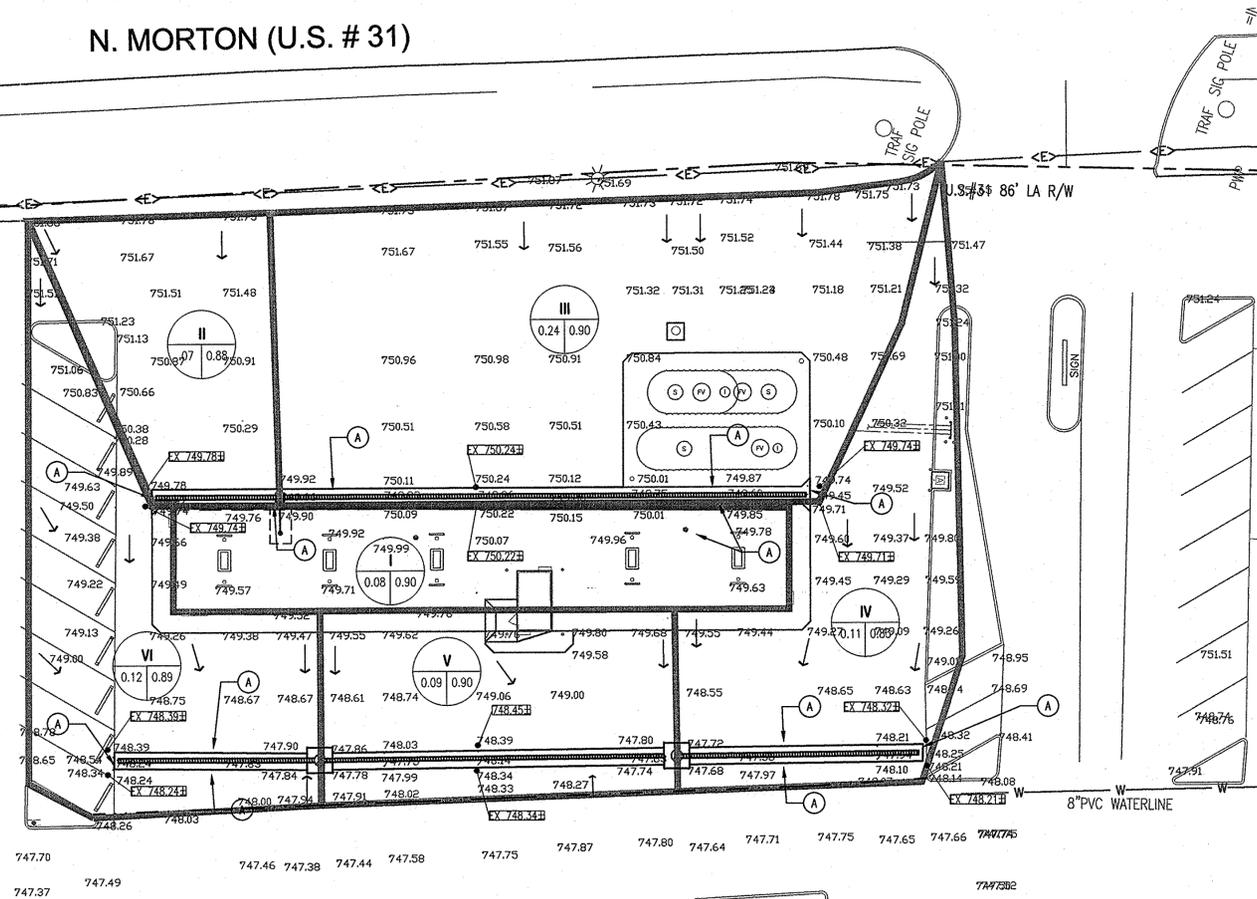
Drawing No.: **C1.1**

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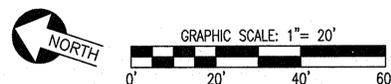
NOTE: ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE PROJECT AND ARE INTENDED TO BE USED IN CONJUNCTION WITH A SET OF CONSTRUCTION SPECIFICATIONS TO BE SUPPLIED BY OWNER. THEY MUST BE READ TO INCORPORATE ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING FEDERAL A.D.A. REQUIREMENTS. THIS SET ASSURES THAT THERE ARE NO UNUSUAL SOIL CONDITIONS OR HOLE LOADS. THE FAILURE OF THIS CONDITION MAY REQUIRE SIGNIFICANT CHANGES TO THESE DOCUMENTS. IT IS THE RESPONSIBILITY OF THE GENERAL TO CONFIRM TO ALL APPLICABLE CODES AND TO INFORM THE OWNERS/ARCHITECTS OF ANY QUESTIONS OR CLARIFICATIONS WHICH ARE DESIRED. CONTRACTORS SHALL ALSO VISIT THE SITE BEFORE BIDDING. CONTRACTORS ARE REQUIRED TO KNOW ALL OBSERVABLE CONDITIONS AND APPLICABLE CODES.

C:\p\02051800\956\_C1.1.dwg Thu, Dec 13, 2011, 10:18am

N. MORTON (U.S. # 31)



OVERALL GRADING PLAN



GRADING NOTES:

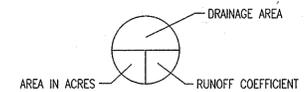
- REFER TO SHEET C1.4 FOR S.E.S.C. NOTES.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE LOCAL MUNICIPALITY DESIGN STANDARDS AND SPECIFICATIONS AND IN ACCORDANCE WITH THESE PLANS.
- ALL PROPOSED SPOT ELEVATIONS IN PAVED AREAS SHALL BE CONSIDERED TOP OF PAVEMENT GRADES UNLESS NOTED OTHERWISE.
- SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES TO ENSURE NO STANDING WATER.
- REFER TO SITE PLAN FOR ADDITIONAL GENERAL NOTES AND UTILITY PLAN FOR UTILITY NOTES.
- UNLESS OTHERWISE INDICATED AT A SPECIFIC LOCATION, ALL FINISHED GRADES ARE TO CONFORM TO AND MATCH EXISTING GRADES. ALL FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS.
- REMOVE AND REPLACE EXISTING PAVEMENT AS NEEDED TO MEET PROPOSED AND EXISTING GRADES.
- IMPORTING FILL MATERIAL FROM AN OFF-SITE LOCATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE KROGER PROJECT MANAGER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFF-SITE BORROW LOCATIONS AND MATERIALS MUST BE COORDINATED AND DOCUMENTED WITH THE SWPPP. A KROGER APPROVED TESTING FIRM MUST VERIFY THE SUITABILITY OF ALL OFF-SITE MATERIAL. THIS INCLUDES AN ANALYSIS TO ENSURE THAT NO ENVIRONMENTAL CONTAMINATION IS PRESENT. IF ANY MATERIAL IS BROUGHT ON SITE WITHOUT WRITTEN APPROVAL OF THE KROGER PROJECT MANAGER, THE CONTRACTOR WILL BEAR ALL COST ASSOCIATED WITH REMOVING THE MATERIAL, TESTING FOR CONTAMINATION, MONITORING THE CLEAN-UP OPERATION, DISPOSAL IN AN APPROVED LANDFILL, AND CERTIFYING THE KROGER SITE IS ENVIRONMENTALLY CLEAN.

SITE SPECIFIC GRADING NOTES:

- THE FUEL CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ANY EXISTING SITE IMPROVEMENTS THAT MAY BE DISTURBED DURING CONSTRUCTION. THIS MAY INCLUDE, BUT NOT BE LIMITED TO:
  - EXISTING CURB THAT MAY BE DISTURBED DURING INSTALLATION OF THE VENT STANDS, AIR STAND, ETC.,
  - EXISTING ASPHALT THAT MAY BE DISTURBED DURING TANK INSTALLATION,
  - EXISTING LANDSCAPING,
  - EXISTING LIGHT STANDARD AND WIRING.

GRADING LEGEND

- = DRAINAGE ARROW
- (A) = MATCH EXISTING GRADE
- = PROPOSED ELEVATION



DRAINAGE AREA KEY

BENCHMARK DATA:

LOCAL BENCHMARK:  
PAINTED CIRCLE WITH PL NAIL ON LEFT UPSTREAM  
HEADWALL EAST OF US#31 ON BRIDGE OVER CANARY  
DITCH SET BY IDNR.  
ELEVATION = 753.07 (NGVD 1929)

SITE BENCHMARK #1  
PK NAIL FOUND  
ELEVATION = 750.95 (NGVD 1929)

SITE BENCHMARK #2  
FINISHED FLOOR ELEVATION  
QUINZO'S RESTAURANT  
ELEVATION = 751.49 (NGVD 1929)

(ADD 0.80 TO ALL ELEVATION TO OBTAIN NAVD 1988)

| PROPOSED Cw VALUES |               |               |                  |                    |                  |                  |
|--------------------|---------------|---------------|------------------|--------------------|------------------|------------------|
| drainage area #    | total area sf | total area ac | permeous area sf | impermeous area sf | water surface sf | Weighted Area Cw |
| I                  | 3,552         | 0.08          | -                | 3,552              | -                | 0.90             |
| II                 | 2,997         | 0.07          | 80               | 2,917              | -                | 0.88             |
| III                | 10,304        | 0.24          | -                | 10,304             | -                | 0.90             |
| IV                 | 4,893         | 0.11          | 480              | 4,413              | -                | 0.83             |
| V                  | 3,718         | 0.09          | -                | 3,718              | -                | 0.90             |
| VI                 | 5,077         | 0.12          | 85               | 4,992              | -                | 0.89             |
| TOTALS             | 30,541        | 0.70          | 645              | 29,896             | -                | 0.89             |

C-Value for green areas = 0.20  
C-Value for pavement and roofs = 0.90  
C-Value for water surface = 1.00

**SSOE**™ SSOE, INC. ARCHITECTS • ENGINEERS  
1050 Wilshire Dr. Suite 280  
Troy, MI 48064  
Telephone: (248) 643-6222  
Fax: (248) 643-6225

10-YEAR STORM SEWER DESIGN SHEET  
KROGER FUEL CENTER J956  
FRANKLIN, IN

DESIGN BY: J.S.  
CHECKED BY: C.H.  
DATE REVISED: 12/3/2011  
FILE NAME: Rational Storm Design J956  
PROJECT #: 012-00144-00

| DRAINAGE AREA | FROM    | TO      | AREA Acres | C <sub>w</sub> | INDIV. | A <sup>c</sup> LATERAL 1 | TOTAL A <sup>c</sup> | FLOW INDIV. min. | FLOW TIME ACCUM. min. | STORM RETURN PERIOD years | RAIN INTENSITY in/hr | FLOW CAPACITY REQUIRED cfs | PIPE SIZE in. | HYD. RADIUS ft | PIPE SLOPE % | MANNING PIPE COEF. n | FULL FLOW CAPACITY PROVIDED cfs | FLOW VELOCITY ft/s | SEWER LENGTH ft | FLOW TIME min. | LOSSES IN MH ft | FALL IN SEWER ft | INVERT U/S ft | INVERT D/S ft |
|---------------|---------|---------|------------|----------------|--------|--------------------------|----------------------|------------------|-----------------------|---------------------------|----------------------|----------------------------|---------------|----------------|--------------|----------------------|---------------------------------|--------------------|-----------------|----------------|-----------------|------------------|---------------|---------------|
| VI            | TD 1    | EX CB 1 | 0.12       | 0.89           | 0.10   | 0.00                     | 0.10                 | 5.00             | 5.00                  | 10 YR.                    | 6.07                 | 0.63                       | 8             | 0.12           | 1.96         | 0.013                | 3.84                            | 4.84               | 48              | 0.17           | 0.1             | 0.94             | 747.76        | 746.82        |
| IV            | TD 3    | TD 2    | 0.11       | 0.83           | 0.09   | 0.00                     | 0.09                 | 5.00             | 5.00                  | 10 YR.                    | 6.07                 | 0.57                       | 8             | 0.12           | 1.99         | 0.013                | 3.87                            | 4.88               | 58              | 0.20           | 0               | 1.15             | 747.69        | 746.53        |
| V             | TD 2    | EX CB 1 | 0.09       | 0.90           | 0.08   | 0.00                     | 0.08                 | 5.00             | 5.00                  | 10 YR.                    | 6.07                 | 0.47                       | 8             | 0.12           | 0.82         | 0.013                | 2.48                            | 3.13               | 81              | 0.43           | 0               | 0.68             | 747.14        | 746.48        |
| III           | TD 6    | TD CB   | 0.24       | 0.90           | 0.21   | 0.00                     | 0.21                 | 5.00             | 5.00                  | 10 YR.                    | 6.07                 | 1.29                       | 8             | 0.12           | 0.87         | 0.013                | 2.56                            | 3.23               | 124             | 0.64           | 0               | 1.08             | 749.14        | 748.22        |
| II            | TD 5    | TD CB   | 0.07       | 0.88           | 0.06   | 0.00                     | 0.06                 | 5.00             | 5.00                  | 10 YR.                    | 6.07                 | 0.37                       | 8             | 0.12           | 0.49         | 0.013                | 1.92                            | 2.42               | 29              | 0.20           | 0               | 0.14             | 749.19        | 749.05        |
|               | TD CB   | EX CO 5 | 0.00       | 0.00           | 0.00   | 0.27                     | 0.27                 | 5.00             | 5.20                  | 10 YR.                    | 6.03                 | 1.65                       | 8             | 0.25           | 20.15        | 0.013                | 20.82                           | 15.54              | 9               | 0.01           | 1               | 1.81             | 747.74        | 745.93        |
| 2/05          | EX CO 5 | EX CO 6 | 0.03       | 0.90           | 0.03   | 0.37                     | 0.40                 | 5.00             | 5.21                  | 10 YR.                    | 6.03                 | 2.39                       | 8             | 0.28           | 4.00         | 0.013                | 9.93                            | 6.92               | 19              | 0.05           | 2               | 0.76             | 745.93        | 745.17        |
| V             | EX CO 6 | EX CB 1 | 0.09       | 0.90           | 0.08   | 0.50                     | 0.58                 | 5.00             | 5.28                  | 10 YR.                    | 6.02                 | 3.47                       | 8             | 0.29           | 4.89         | 0.013                | 11.09                           | 7.65               | 36              | 0.08           | 0               | 1.76             | 745.17        | 743.41        |

Q (FLOW CAPACITY REQUIRED BY RATIONAL METHOD FORMULA) = CIA  
Q = PEAK RATE OF RUN-OFF IN CFS  
C = COEFFICIENT OF RUN-OFF  
I(10 YR) = K/(t+b) = 170/(23+T) (Per Steel Formula)  
T = TIME OF CONCENTRATION = 5 MINUTES

(C = 0.20 FOR LAWN AREAS)  
(C = 0.90 FOR PAVEMENT & ROOF AREAS)  
(C = 1.00 FOR WATER SURFACE AREAS)  
FULL FLOW CAPACITY BY MANNING'S FORMULA

STRUCTURE LEGEND  
CB= CATCH BASIN  
CO= CLEAN OUT  
TD= TRENCH DRAIN  
MH= MANHOLE

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The Kroger Co.  
CENTRAL MARKETING AREA  
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Indianapolis, IN 46250  
Phone: (317) 579-8100



Seal 12.13.11

REVISIONS

| DATE       | DESCRIPTION        |
|------------|--------------------|
| 12-02-2011 | OWNER REVIEW       |
| 12-13-2011 | SITE PLAN APPROVAL |

Project No.: 012-00144-00  
Project Manager: HATHAWAY  
Designed By: KLEIN  
Drawn By: SALA  
Checked By: HARTMAN  
Store No.: J-956  
Address: 1700 NORTHWOOD PLAZA  
FRANKLIN, IN

GRADING AND DRAINAGE PLAN

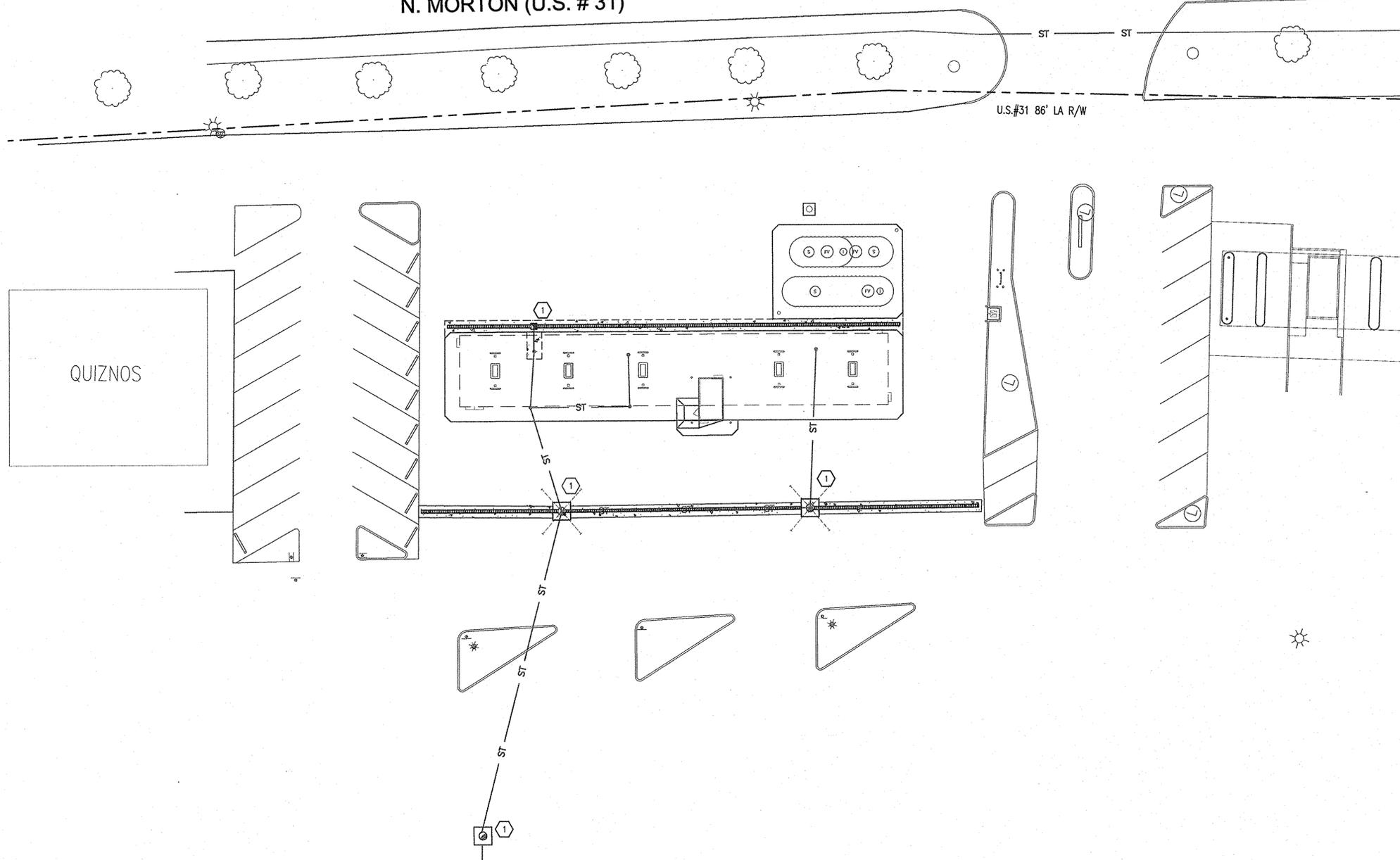
Drawing No.: C1.2



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N. MORTON (U.S. # 31)



**EROSION CONTROL NOTES:**

- CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH THE GEOTECHNICAL REPORT PRIOR TO BEGINNING ANY WORK.
- CONTRACTOR SHALL MAINTAIN THE SWPPP AS SPECIFIED IN SECTION 31 25 00 OF THE PROJECT MANUAL.
- CONSTRUCT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS AND PROJECT DOCUMENTS.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
- ANY EROSION AND SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKE AND PONDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING NEIGHBORING STREETS CLEAN AND FREE OF MUD AND DEBRIS.
- DIRECT ALL DENATURING ACTIVITIES TO THE EXISTING STORM SYSTEM. PASS ALL WATER THROUGH A FILTER PRIOR TO OUTLETTING TO THE SYSTEM.
- CONSTRUCT AND MAINTAIN INLET FILTER AT ALL CATCH BASINS AND INLET STRUCTURES THAT HAVE THE POTENTIAL TO RECEIVE SEDIMENT LADEN RUNOFF UNTIL PERMANENT MEASURES ARE IN PLACE.
- ENSURE SOIL AND DEBRIS FROM THE SITE REMAINS ON SITE THROUGH THE USE OF CLEAN STONE EXITS. DIRECT ALL CONSTRUCTION TRAFFIC TO THESE EXITS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, MAINTAINING AND REMOVING A CONCRETE WASHOUT AREA WITH GUIDANCE FROM THE READY MIX WASHOUT GUIDEBOOK AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. ALL MATERIAL CONTAINED WITHIN THE WASHOUT AREA SHALL BE DISPOSED OF PROPERLY.
- CONTROL DUST AT ALL TIMES DURING CONSTRUCTION.
- SPECIAL PRECAUTIONS SHALL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- THE PROJECT SHALL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
- CLEANUP SHALL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
- FINAL SITE SOIL EROSION CONTROL STABILIZATION, SUCH AS SEED OR SOD, IS TO BE COMPLETED WITHIN FIVE (5) DAYS OF FINAL GRADING.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.

**CONSTRUCTION SEQUENCE:**

- PROVIDE TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) PRIOR TO ANY EARTH MOVING ACTIVITIES.
- COMPLETE PAVEMENT AND ITEM REMOVAL.
- ROUGH GRADE SITE AND CONSTRUCT STORM SYSTEM. INSTALL AND MAINTAIN INLET FILTERS ON STORM STRUCTURES.
- COMPLETE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
- INSPECT AND PERFORM MAINTENANCE OF BMPs DURING THE ENTIRE CONSTRUCTION EFFORT.
- COMPLETE PERMANENT SOIL EROSION CONTROL STABILIZATION MEASURES.
- REMOVE TEMPORARY BMPs AFTER SITE IS STABILIZED AND AS DIRECTED BY THE OWNER AND/OR INSPECTOR.

**SWPPP MAINTENANCE SCHEDULE NOTES:**

A CONTRACTOR / INSPECTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENT CONTROL DEVICES ONCE EACH WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NPDES REQUIREMENTS. IMPLEMENT THE FOLLOWING STEPS IF ANY DAMAGE HAS RESULTED FROM CONSTRUCTION OR WEAR.

- INSPECT INLET FILTERS FOR BUILD-UP OF SILT AND OTHER DEBRIS. EXCESSIVE BUILD-UP IS EVIDENT IF GEOTEXTILE IS CAUSING FLOODING. MAINTENANCE CONSISTS OF REMOVING ALL SEDIMENT WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTER IS BEYOND THIS LEVEL OF REPAIR, IT MAY BE NECESSARY TO REPLACE THE GEOTEXTILE FILTER FABRIC.
- MAINTAIN DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON HAUL ROADS, ON-SITE DISTURBED AREAS, OR OTHER PLACES WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION EFFORTS.
- PROMPTLY REMOVE ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE.

**EROSION CONTROL LEGEND**

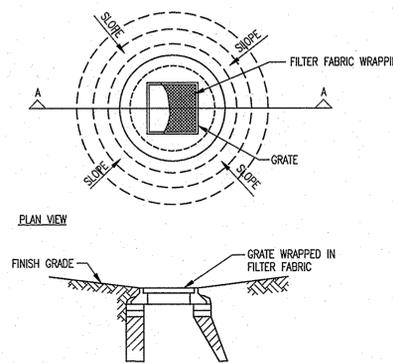
① INLET FILTER

**SOIL EROSION / SEDIMENTATION CONTROL MAINTENANCE SCHEDULE**

| CONSTRUCTION SEQUENCE           | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| INSTALL TEMPORARY SESC MEASURES |     |     | X   |     |     |     |     |     |     |     |     |     |
| SITE DEMO/SITE CONSTRUCTION     |     |     | X   |     |     |     |     |     |     |     |     |     |
| INLET FILTERS ON STRUCTURES     |     |     | X   |     |     |     |     |     |     |     |     |     |
| FINAL GRADING                   |     |     | X   |     |     |     |     |     |     |     |     |     |
| REMOVE TEMPORARY MEASURES       |     |     | X   |     |     |     |     |     |     |     |     |     |

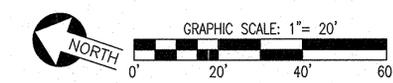
ANTICIPATED CONSTRUCTION START DATE: MARCH 05, 2012  
ANTICIPATED CONSTRUCTION END DATE: MARCH 16, 2012

INSPECT WEEKLY OR AFTER EACH RAIN EVENT



NOTE: AT DRAINAGE STRUCTURES LOCATED IN PAVED/CURBED AREAS 'SILTSACK' FILTER BASKET OR APPROVED EQUAL MAY BE INSTALLED IN LIEU OF GEOTEXTILE FILTER FABRIC.

① INLET FILTER - AFTER FINAL GRADE  
NO SCALE



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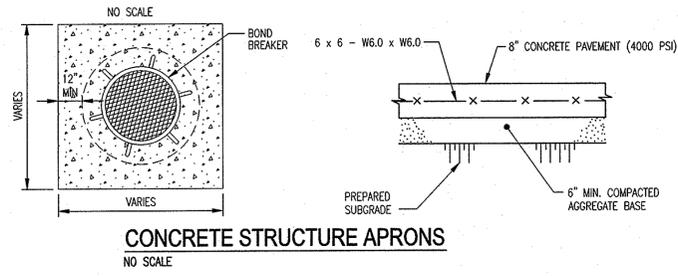
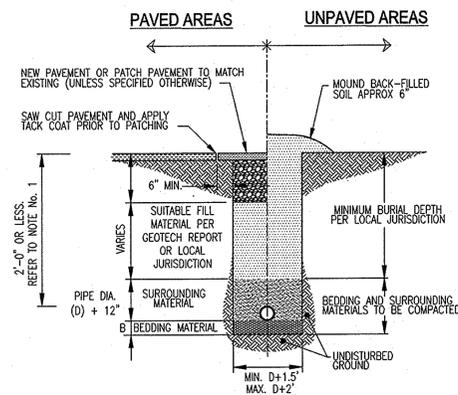
Professional Engineer Seal  
CHARLES W. HARTMAN  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA  
PE10708010  
Seal  
12.13.11

REVISIONS

| No. | DATE       | DESCRIPTION        |
|-----|------------|--------------------|
|     | 12-02-2011 | OWNER REVIEW       |
|     | 12-13-2011 | SITE PLAN APPROVAL |

Project No.: 012-00144-00  
Project Manager: HATHAWAY  
Designed By: KLEIN  
Drawn By: SALA  
Checked By: HARTMAN  
Store No.: J-956

Address: 1700 NORTHWOOD PLAZA  
FRANKLIN, IN  
SWPPP  
Drawing No.: C1.4



RECOMMEND FILL MATERIALS

| TYPE OF PIPE                   | SURROUNDING MATERIAL TYPE | B-DIMENSION | BEDDING MATERIAL TYPE |
|--------------------------------|---------------------------|-------------|-----------------------|
| DUCTILE IRON PIPE              | "A", "B", OR "C"          | 3"          | SAND OR "C"           |
| RCP PIPE                       | "B" OR "C"                | 3"          | SAND OR "C"           |
| ALL PIPE OVER BEDROCK OR LEDGE | "B" OR "C"                | 6"          | SAND OR "C"           |
| RCP PIPE IN CLAY               | "B" OR "C"                | 6"          | SAND                  |
| PLASTIC-ALL                    | "C"                       | 6"          | SAND OR "C"           |

"RECOMMENDED FILL MATERIALS" ARE MINIMUM REQUIREMENTS. CONTRACTOR SHALL ENSURE COMPLIANCE WITH LOCAL JURISDICTION AND/OR THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

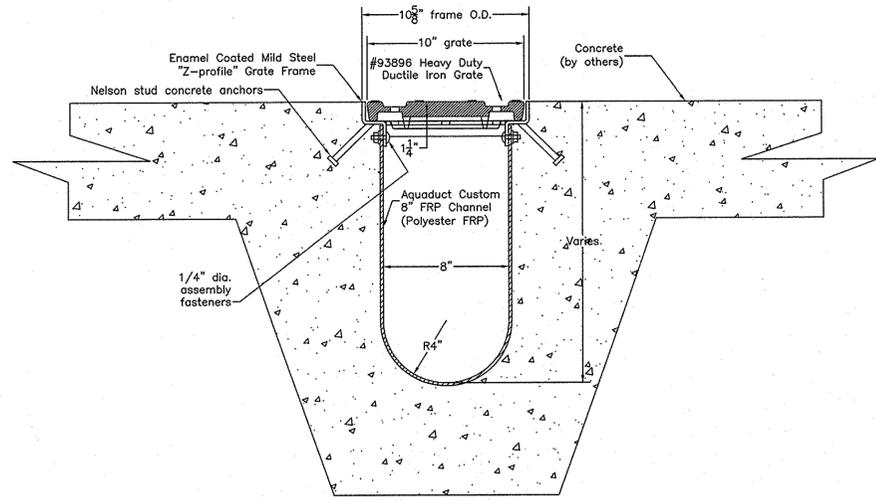
**MATERIAL TYPES:**

- "A": GRAVEL OR EXCAVATED MATERIAL WHICH HAS NO STONES GREATER THAN 1.5" DIAMETER.
- "B": STONE WITH 100% PASSING 1.5" SQUARE SIEVE, A MAXIMUM OF 25% PASSING A 3/4" SQUARE SIEVE AND A MAXIMUM 5% PASSING A 1/2" SQUARE SIEVE, PEA GRAVEL, BANK RUN, OR RUN OF BANK.
- "C": CRUSHED STONE WITH 100% PASSING A 1" SQUARE SIEVE AND 0-5% PASSING A 1/4" SQUARE SIEVE, PEA GRAVEL, OR OTHER NATURAL FREE DRAINING STONE MATERIAL WITH LESS THAN 10% P200 (PASSING NO. 200 SIEVE).

**NOTES:**

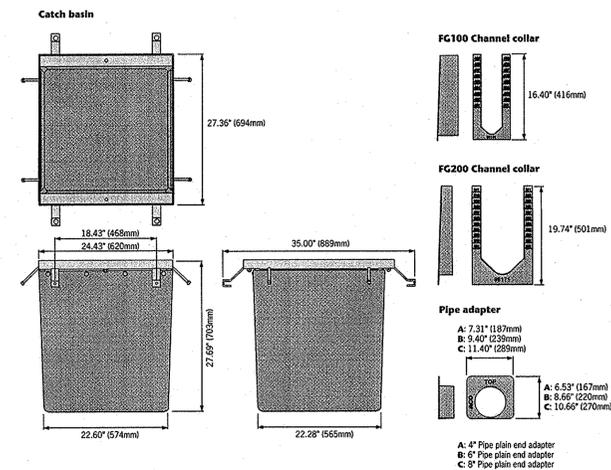
- THE SURROUNDING MATERIAL MUST BE INSTALLED TO THE PAVEMENT BASE ELEVATION IF THERE IS LESS THAN 2'-0" OF FILL OVER THE PIPE.
- COMPACT ALL BACK FILL UNDERNEATH, AROUND & ABOVE PROPOSED PIPES TO 98% STANDARD PROCTOR.
- WHERE A PIPE HAS A SLOPE GREATER THAN OR EQUAL TO 4% OR WHERE GROUNDWATER IS PRESENT, CLAY DAMS SHALL BE INSTALLED AROUND THE PIPE EVERY 100' TO PREVENT WASHOUT AROUND THE PIPE.
- ALL SUITABLE FILL SHALL NOT CONTAIN STONES GREATER THAN 4" IN DIAMETER OR FROZEN LUMPS, AND SHALL CONTAIN A MINIMAL AMOUNT OF ORGANIC MATERIALS.
- MATERIAL IS TO BE PLACED AT NO MORE THAN 8" LIFTS AND COMPACTED BEFORE PLACING NEXT LAYER.

**TRENCH DETAIL**  
NO SCALE



*Aquaduct Custom 8" Trench Drain - Typical Detail*  
(NTS)

**ACO DRAIN**  
**F880 Catch Basin with black coated steel frame**



Outlet flow rates

| Outlet | Product | Outlet size (Sch. 40) | Invert. Depth | CPM  | CFS  |
|--------|---------|-----------------------|---------------|------|------|
| 97425  | F880*   | 4" round              | 27.5 max      | 275  | 0.61 |
| 97438  | F880*   | 6" round              | 27.5 max      | 606  | 1.35 |
| 97444  | F880*   | 8" round              | 27.5 max      | 1055 | 2.35 |

\*Catch basin flow rates are without trash bucket, using trash bucket reduces flow.  
Total capacity = 55.00 gallons

**ACO POLYMERS F880 TRENCH DRAIN CATCHBASIN**  
NO SCALE

ACO Specification Information

**SSOE**  
SSOE, INC.  
ARCHITECTS • ENGINEERS  
TROY, MICHIGAN 48064  
248.643.6222

**Kroger**  
The Kroger Co.  
CENTRAL MARKETING AREA  
5950 Conestoga West Drive  
Indianapolis, IN 46250  
Phone: (317) 579-3100

REGISTERED PROFESSIONAL ENGINEER  
CHARLES W. HATHAWAY  
PE 10708016  
STATE OF INDIANA  
12-13-11

REVISIONS

| No. | DESCRIPTION        | DATE       |
|-----|--------------------|------------|
| 1   | OWNER REVIEW       | 12-02-2011 |
| 2   | SITE PLAN APPROVAL | 12-13-2011 |

|                  |                                      |
|------------------|--------------------------------------|
| Project No.:     | 012-00144-00                         |
| Project Manager: | HATHAWAY                             |
| Designed By:     | KLEIN                                |
| Drawn By:        | SALA                                 |
| Checked By:      | HARTMAN                              |
| Store No.:       | J-956                                |
| Address:         | 1700 NORTHWOOD PLAZA<br>FRANKLIN, IN |

**SITE SPECIFIC DETAILS**  
Drawing No.: **C5.1**

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C:\p\0251680\0656\_C5.1.dwg Thu, Dec 13, 2011 - 10:22am

