

CONSTRUCTION NOTE:

Construction fencing to be installed around entire construction site. Coordinate with owner for fencing and gate locations and appropriate signage installation.

LAYOUT NOTES:

1. PLAN PREPARED FROM AN ALTA/ACSM LAND TITLE SURVEY BY:
MAU AND ASSOCIATES
920-434-9670
DATED 15JAN2015, REVISED 05FEB2015
2. CURBS ARE DIMENSIONED TO FACE OF CURB.
3. CONVENIENCE STORE, CAR WASH AND ISLAND COMPLEXES ARE LOCATED FROM THE EAST PROPERTY CORNER AND ALIGNED PARALLEL/ PERPENDICULAR TO THE SOUTHEAST PROPERTY LINE UNLESS OTHERWISE INDICATED ON THIS PLAN.
4. UNLESS SHOWN OTHERWISE ON THIS DRAWING, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS AND DRIVES.
CONTROL JOINT MAXIMUM DISTANCE: WALKS- 8' O.C., ALL OTHERS- 10' O.C. SAW CUT CONTROL JOINTS MINIMUM ONE-QUARTER CONCRETE THICKNESS.
EXPANSION JOINT MAXIMUM DISTANCE: WALKS- 24' O.C., ALL OTHERS- 40' O.C. DOWEL ALL EXPANSION JOINTS- MAXIMUM 24' O.C.
5. CONCRETE IN ISLAND COMPLEX SHALL BE SMOOTH FINISHED.
6. EXTERIOR CONCRETE SURFACES TO BE SEALED.
CONCRETE SEALER:
APR 15- OCT 31 USE: TK-26UV
NOV 1- DEC 31 USE: TK-290
7. EXPANSION JOINTS SHALL BE DECK-O-FOAMED AND CAULKED WITH SLI

SITE DATA:

ZONING DISTRICT: 1st COMMERCIAL

TOTAL SITE AREA- TOTAL: 114,052 SF

EX. IMPERVIOUS: -

EX. PERVIOUS: -

PARKING REQUIREMENTS

PARKING REQUIRED

PARKING PROVIDED

27 STALLS

20 SRV. PNTS, 2 DIESEL

BUILDING HEIGHTS

CONVENIENCE STORE

CAR WASH

CANOPY

23.5'

14'

20.0'

BUILDING SETBACKS

FRONT

SIDE

REAR

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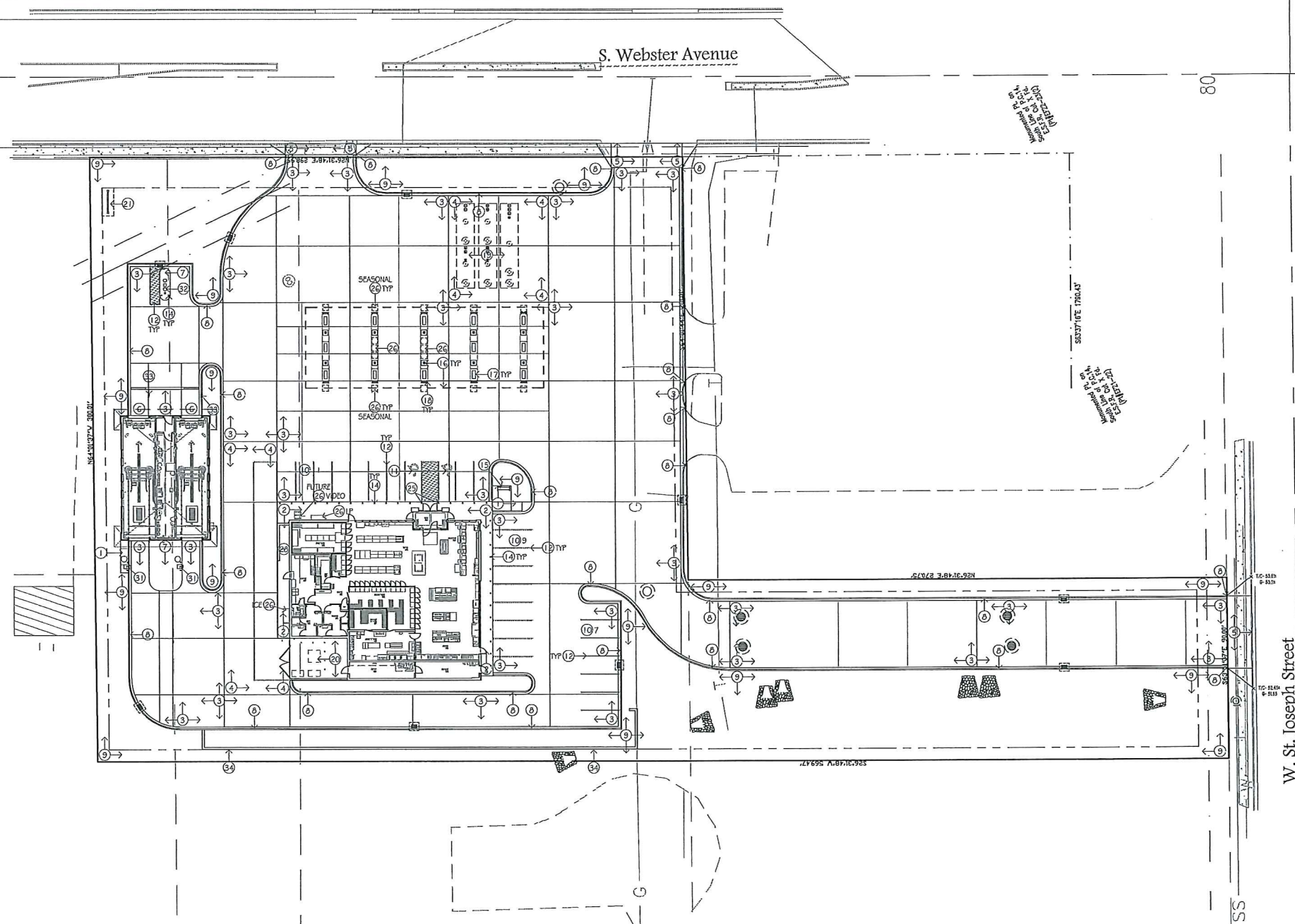
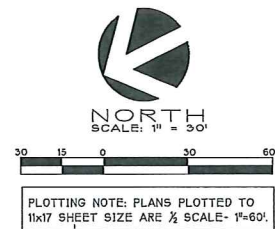
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- SITE PLAN KEYNOTES**
- 4" DEPTH CONCRETE WALK PER DETAIL 2/SP5
 - 6" INTEGRAL CONCRETE CURB/ WALK. SEE DETAIL 7/SP5 FOR NON-FLUSH SECTIONS. CONCRETE SEALER: TK-26UV
 - 6" DEPTH (MIN) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
 - 8" DEPTH (MIN) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV
 - 8" DEPTH CONCRETE APPROACH PER DETAIL 5/SP5
 - 6" CONCRETE PAD WITH SNOW MELT PER MECHANICAL PLANS
 - CONCRETE CURB ISLAND
 - 8-12 CONCRETE CURB AND GUTTER PER DETAIL 11/SP5
 - LANDSCAPE AREA. SEE SHEET L1.
 - OFF-STREET PARKING STALLS STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT. SPACES PROVIDED (20) SERVICE POINTS (25) 9'-0"x 20'-0" (MIN) GENERAL PARKING (2) 8'-6"x 20'-0" ACCESSIBLE PARKING WITH (1) 8'-6"x 20'-0" LOADING ZONE
 - A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
 - 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- BLUE, ALL OTHERS- YELLOW.
 - STORM STRUCTURE. SEE SHEETS SP2-SP4 FOR FURTHER STORM SEWER INFORMATION.
A. CATCH BASIN CURB INLET PER DETAIL 3/SP6 AND 8/SP6
B. FLARED END SECTION PER DETAIL 4/SP6
C. RIP RAP PER DETAIL 7/SP6
D. OUTLET STRUCTURE PER DETAIL ON SHEET SP3
E. MANHOLE, FRAME AND GRATE PER DETAIL 5/SP6
F. TRENCH DRAIN PER DETAIL 6/SP6
G. OIL SKIMMER STRUCTURE PER DETAIL ON SP3
H. SLOTTED DRAIN PER DETAIL ON SHEET SP3
 - 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 9/SP5.
 - 8 STALL BIKE RACK WITH 4" CONCRETE PAD (BRP 300 TRADITIONAL BIKE RACK-SINGLE SIDE PORTABLE/ SURFACE MOUNT ENDS FUSION COATINGS - A DIVISION OF RTM INC. TO BE PROVIDED BY OWNER)
 - 40'-0"x 120'-0" DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
 - 3'-6"x 6'-0" CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS. DISPENSER PER OWNER.
 - 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD SIMILAR TO DETAIL 6/SP5.
 - UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS.
 - EXTERNAL TRASH ENCLOSURE TO MATCH BUILDING. SEE ARCHITECTURAL DETAILS.
 - KWIK TRIP TRADEMARK SIGN SUBJECT TO SEPARATE REVIEW AND APPROVAL (VERIFY FINAL LOCATION WITH SIGN PERMIT)
 - 'FREE AIR' COMPRESSOR. PROVIDE SIGNAGE PER OWNER.
 - SITE AREA LIGHT WITH CONCRETE BASE PER DETAIL 12/SP5
 - PVC IRRIGATION SLEEVE UNDER PAVEMENT. VERIFY W/ IRRIGATION PLAN FOR EXACT SIZE AND LOCATION BEFORE INSTALLATION.
 - HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT.
 - OUTDOOR MERCHANDISING AREA
 - PICNIC TABLE PER OWNER. PROVIDE 1 HC. ACCESS TABLE SPACE. PROVIDE TRASH CONTAINER PER OWNER.
 - EXTERIOR DELIVERY 'TOTE' STORAGE WITH SCREEN WALL
 - ELECTRICAL TRANSFORMER
 - ELECTRIC CAR CHARGER
 - CAR WASH KEY PAD/ CONTROLLER. PROVIDE TRASH CONTAINER
 - VACUUM PER MANUFACTURE'S SPECIFICATIONS
 - CAMERA PER CAR WASH EQUIPMENT PLANS
 - RETAINING WALL PER OWNER

STORES

STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, Ste. 131
Plymouth, Minnesota 55447
763.383.8400
fax 763.383.8410

SITE PLAN KEYNOTES

CONVENIENCE STORE 175

ALLOUEZ WISCONSIN

NO.	DATE	DESCRIPTION

DRAWN BY _____

SCALE _____ GRAPHIC

PROJ. NO. 15175

DATE 09MAR2015

SHEET **SP1.1**

INSITES 15-01

INSITES 15-011



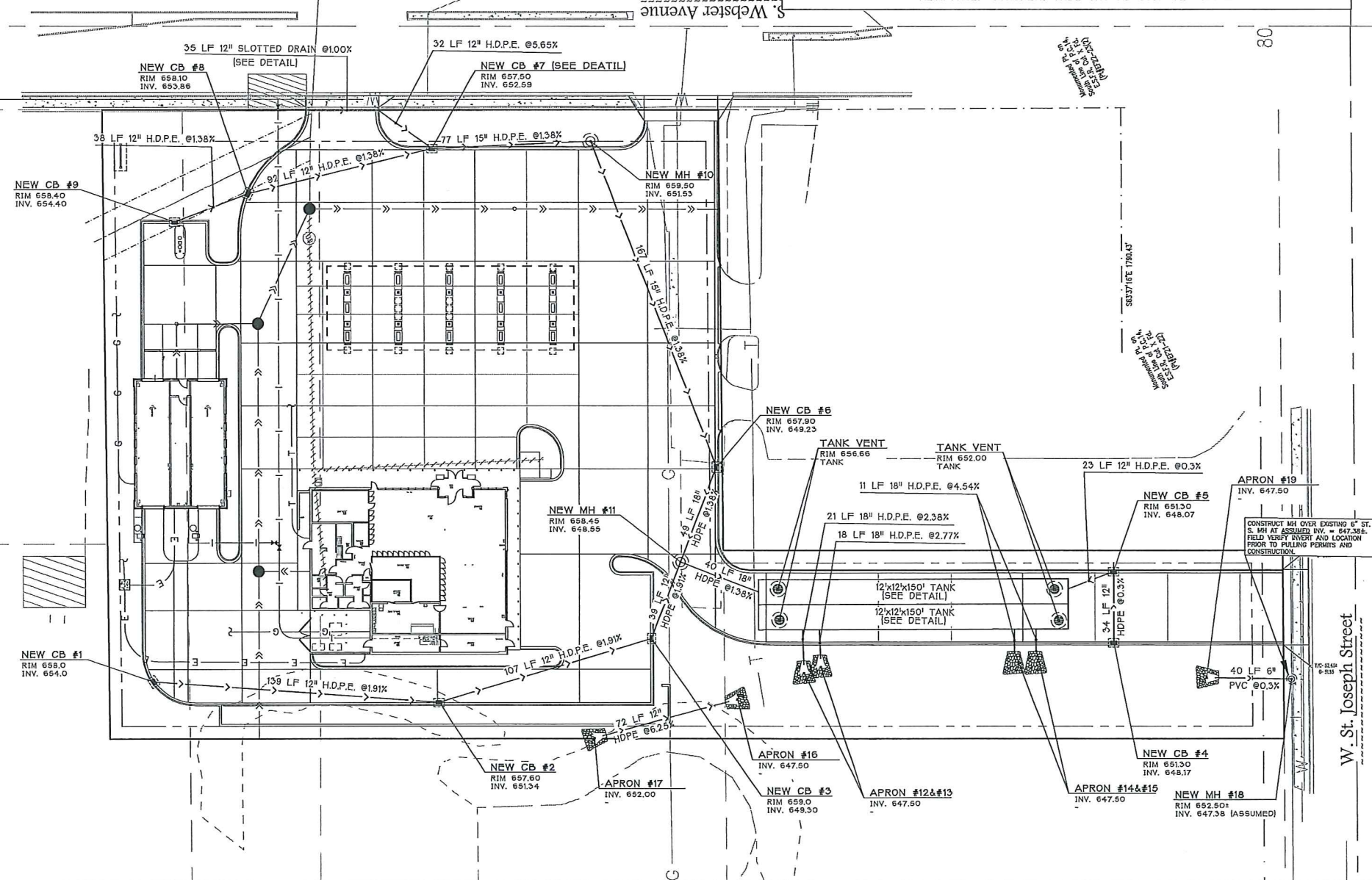
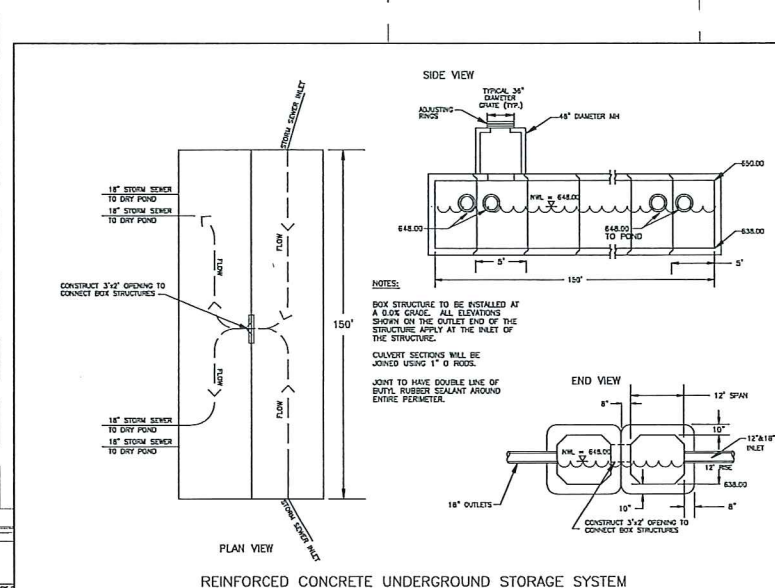
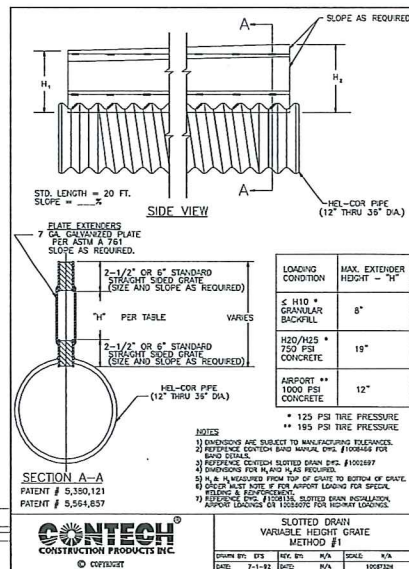
The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."



NORTH
SCALE: 1" = 30'

A horizontal number line with arrows at both ends. It has major tick marks labeled 0, 15, 30, and 60. There are also minor tick marks between the major ones, representing increments of 5. A solid black dot is placed on the tick mark for 30, and the number 30 is written below the line.

PLOTTING NOTE: PLANS PLOTTED TO
11x17 SHEET SIZE ARE $\frac{1}{2}$ SCALE- 1"=60'.

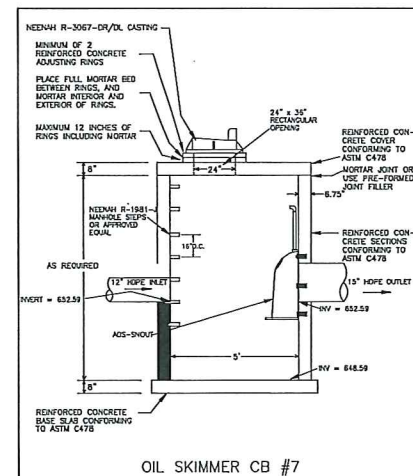


STORM DRAINAGE:

1. Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have conformed, rubber "O"-ring gaskets in accordance with ASTM C923. The inside barrel diameter shall not be less than 48 inches.
2. All joints and connections to catchbasins or manholes shall be watertight. Use resilient rubber seals, waterstop gaskets, or approved equal. Cement mortar joints are not allowed.
3. Install catchbasin castings with specified top elevation at the front rim.
4. **PVC Pipe:** Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to 15-inches in diameter. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27-inches in diameter. Joints for PVC pipe shall have push-on joints with elastomeric gaskets. Use of solvent cement joints is allowed for building services. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement. Pipe must be installed in a trench with a minimum 1% slope. PVC pipe shall be at least 15' apart. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
5. **Testing:** Test all portions of storm sewer that are within 10 feet of buildings, within 50 feet of buried water, lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated. Test all flexible storm sewer lines for deflection after the trench has been backfilled with 3% cementitious sand. PVC pipe shall be tested. No pipe shall exceed a deflection of .5%. If the test fails, make necessary repairs and retest.
6. Use Nenech R-3067-DR/DL casting with curb box, or approved equal, on CB #1, CB #2, CB #3, CB #4, CB #5, CB #6, CB #7, CB #8 and CB #9.
7. Use Nenech Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all storm sewer maintenance holes. Covers shall bear the "Storm Sewer" label.
8. Use a Nenech R-1733 form with boxed, Type "C" radial grate, or approved equal, on the Tank Vents. Use tamper-proof bolts.
9. Install detectable underground marking tape directly above all pvc, polyethylene, and other nonconductive underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Bring the tape to the surface at various locations in order to provide connection points for locating underground utilities. Install Blue Rhino TriVex Flex Test Stations, or approved equal, with black caps at each surface location.
10. **TRACER WIRE:** Locating requirements – means to locate buried underground exterior non metallic sewers/main must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2) of the statutes.
11. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes in mechanical rooms and on level pipe bedding at joints. Use a half-dimension, closed cell, rigid board material equivalent to DOW Styrofoam B-60 plastic foam insulation.
12. **Cleanouts:** Install cleanouts on all roof drains in accordance with S.P.S. 382.35 (3)(C)(1). The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 10-inches and under in size. Cleanouts shall be of the same nominal size as the pipes they serve. Install a meter box frame and solid lid (Nenech R-1314-A, or approved equal) above all cleanouts.
13. Line ponds with 2' thick clay liner per detail.
14. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipes laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end and receive the previous pipe by the flange pointing upward. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in any manner in which the trench conditions are not suitable for such.

HDPE REQUIREMENTS:

1. Install dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe at locations indicated on the plan.
2. Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of AASHTO M252 for pipe sizes 4-inch to 10-inch diameter.
3. Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of ASTM F2306 for pipe sizes 12-inch to 60-inch diameter.
4. All fittings must comply with ASTM Standard D3212.
5. Water-tight joints must be used at all connections including structures.
6. Lay all HDPE pipe on a continuous granular bed. Installation must comply with ASTM D3231. All sections of the corrugated HDPE pipe shall be coupled in order to provide water tight joints.
7. Perform deflection tests on all HDPE pipe after the sewer lines have been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and perform the test again until acceptable. Supply the mandrel for deflection testing. If the deflection test is to be run using a rigid ball or mandrel, it shall be a 12-inch diameter mandrel. 3/4" of the 12-inch diameter ball or mandrel shall be clearly stamped with the diameter. Perform the tests without mechanical pulling devices.



**KWIK
TRIP**

STORES



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STORM SEWER PLAN

CONVENIENCE STORE 175

ALLOUEZ WISCONSIN

NO.	DATE	DESCRIPTION
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DRAWN BY

SCALE **GRAPHIC**

PROJ. NO. **15175**

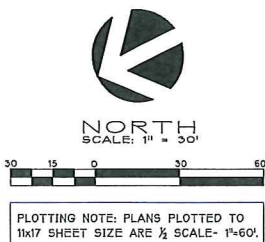
DATE **09MAR2015**

SHEET **SP2**

NSITES 15-011



The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."



GENERAL:

1. Comply with the work site practices specified by the Occupational Safety and Health Administration (OSHA). Comply with all applicable local, state, and federal safety regulations. OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking proper safety procedures. Construction safety is total responsibility of the Contractor, who is also solely responsible for the means, methods, and sequencing of the construction operations.
2. Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Mau and Associates dated Feb. 5, 2015.
3. Perform all utility work in accordance with State and City requirements.
4. Connect or existing sanitary sewer M&S by coring/drill. Connect to existing storm sewer M&S's by either socketing or coring/drill. Use saws or drills that provide water to the blade. Meet all City standards and specifications for all construction. Reconstruct inverts after installation. Use water stop gaskets in order to provide watertight seals when penetrating a structure wall with a pipe. Take measurements before beginning construction to ensure that service connections do not cut into maintenance access structure joints or pipe barrel joints.
5. Perform trench excavations for all utilities in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, "Excavations and Trenches." (www.osha.gov)
6. Coordinate building utility connection locations at 5 ft. out from the proposed responsibility of the with the existing plumbing for all existing utilities. Verify water and sewer service locations and elevations with the Mechanical Engineer prior to construction.
7. The subsurface utility information shown on this plan is Utility Quality Level D. This quality level was determined according to the guidelines of C/A/ASCE 38-02, entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."
8. The locations of existing utilities shown on this plan are from record information. The Engineer does not warrant that all existing utilities are shown or if shown, are in the locations indicated on the plan. It is the Contractor's responsibility to ascertain the final vertical and horizontal location of all existing utilities (including water and sewer lines and appurtenances). Notify the Engineer of any discrepancies.
9. Contact utility companies for locations of all public and private utilities within the work area prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of all various utilities at least 48 hours prior to construction. Record inverts after installation. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
10. Pot-hole to verify the positions of existing underground facilities at a sufficient number of locations in order to assure that no conflict with the proposed work exists and that sufficient clearance is available.
11. Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation, offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.
12. Arrange for and secure suitable disposal areas off-site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris include trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the permits to take waste material to the waste area or surplus material either short or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the OWNER.
13. Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Tack, and match all connections to existing bituminous pavement.
14. Relocate overhead power, telephone, and cable lines as required.
15. All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials.
16. Restore the public right-of-way. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or slurry placed over damaged by the construction activity. Restore damaged turf with sod within the public right-of-way. The work area shown is general and may need to be adjusted in the field.
17. When sawing or drilling concrete or masonry, use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system.
18. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.
19. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing up-grade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe.
20. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.
21. Obtain permits from the City for work in the public right-of-way.
22. Construct sanitary sewer, watermain, and storm sewer utilities in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, or the latest revised edition.
23. TRACER WIRE: Locating requirements -- a means to locate buried underground exterior non metallic sewers/main must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes.
24. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing up-grade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water when the trench conditions are unsuitable for such work.

WATER DISTRIBUTION SYSTEM:

1. Bring all site utilities to 5' outside of the building line with the exception of the water service. Extend water service into the building and up to the flange for the water meter.
2. Separation of Water and Sewer: Provide a minimum horizontal separation of 10 feet between all water and sewer lines. Provide a minimum separation of 18 inches at all water line and sewer line crossings.
3. Watermain Depth: Maintain 7.5 feet of cover over the top of the water line to the finished grade. Verify elevation of proposed and existing water lines at all utility crossings. Install the water lines at greater depths in order to clear storm sewers, sanitary sewers, or other utilities as required. Include costs to lower water lines in the base bid.
4. Disinfection: Disinfect all completed watermain in accordance with AWWA Standard C651. If the tablet or continuous feed methods are used, disinfect using water that contains at least 50 ppm of available chlorine. Do not use the tablet method on solvent-welded joints or on screened-joint steel pipe because of the danger of fire or explosion from the reaction of chlorine compounds with the solvent. Disinfect the watermain in accordance with the following:
 - a. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - b. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - c. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - d. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
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 - j. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - k. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - l. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - m. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - n. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - o. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - p. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - q. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - r. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - s. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - t. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - u. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - v. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - w. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - x. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - y. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
 - z. Disinfect the watermain with a minimum of 100 ppm of available chlorine.
5. Testing: Pressure test and perform bacteriological tests on all water lines under the supervision of the City Public Works Department. Notify the City at least 24 working hours prior to any testing. Pressurize the watermain to 105-110 psi (150-psi) gauge pressure (measured at the point of lowest elevation) by means of a pump connected to the pipe in a satisfactory manner. Maintain the test pressure for a minimum of 2 hours. Do not add water to the watermain in order to maintain the required pressure during the water main pressure testing. The test section of pipe is acceptable with a pressure drop of 14 kPa (2 psi) or less.
6. Use mechanical joint restraint devices for joint restraint on all watermain bends having a vertical or horizontal deflection of 22-1/2 degrees or greater, all valves, stubs, extensions, tees, crosses, plugs, all hydrant valves, and all hydrants in accordance with City requirements. Use "Series 1100 Megalug" manufactured by EBAA Inc. in Eastland, Texas, or approved equal, installed in accordance with manufacturer's recommendations for restraint on Ductile Iron Pipe.
7. At all valve locations which require a 12" or smaller valve, install gate valves which are of the compression resilient seated (CRS) type. Use American Flow Control's Series 2500 Ductile Iron Resilient Wedge Gate Valve, or approved equal. Gate valves shall conform to AWWA C509. Install iron valves with all hydrant valves, and all hydrants in accordance with City requirements. Use the three-piece type with 5-1/4" shafts. Use Type 6860-G with No. 6 base, or equivalent. Valve boxes shall have at least 6" of adjustment above and below finished grade. Drop covers on valve boxes shall be round and bear the word "WATER" cast on the top. Use Type 6860-G "Stopput" valve boxes with extended skirt, or equivalent.
8. Use Mueller H 10300 or Ford EM 2 7057, or approved equal, at all curb stop locations. Stationary rod is required on all curb stops.
9. Polyvinyl Chloride (PVC) Building Water Services: Use AWWA C900, ASTM D2241 or ASTM D1785; pressure rated for water.
10. Polyvinyl Chloride (PVC) Watermain: Use AWWA C900 for all PVC watermain furnished with integral elastomeric bell and spigot joints; minimum pressure Class 150; dimension ratio not greater than 18; lay length 20 feet. Use EBAA Iron, Inc., "Series 2000 PV Megalug," or approved equal for restraint on C900 PVC watermain. Lay brace line with all C900 PVC watermain.
11. Trench Wire: Locating requirements -- on a means to locate buried underground exterior non metallic sewers/main must be provided with tracer wire or other methods in order to be located in accord with the provisions of the Wisconsin Statutes 182.07(5)(2) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h).
12. Use ANSI/AWWA C151/A21.51 Thickness Class 52 or Pressure Class 350 Ductile Iron Pipe (DIP) with push-on joints for all watermain. Use only stainless steel bolts and nuts on all watermain fittings, valves, and hydrants.
13. Polyethylene encasement is required on all ductile iron pipe.

SANITARY SEWER:

1. **Pipe:** Use solid-core, SDR-35, ASTM D3034 (or approved equal) Polyvinyl Chloride (PVC) Plastic Pipe for all designed PVC sanitary sewer services. Joints for all sanitary sewer shall have push-on joints with elastomeric gaskets. Use of solvent cement joints is allowed for all sanitary sewer. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2584. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D5231.
2. **Cleanouts:** Install cleanouts on all sanitary sewer services. The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 4-inch and over in size. Cleanouts shall be installed on the sanitary sewer at every manhole. Cleanouts must include floor sleeves and concrete frame and pipe support. Install a meter box frame and solid lid (Nenach R-1914-A, or approved equal) over all cleanouts.
3. **Testing:** Pressure test all sanitary sewer lines. Test all flexible sanitary sewer lines for deflection after the sewer line has been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and retest.
4. **Unless otherwise indicated, use reinforced, precast, concrete manhole openings conforming to ASTM standards. Manhole openings shall be installed in accordance with the following:**
 a. Manhole openings shall be installed with pre-formed inverts and flexible neoprene sleeve connections for all lateral lines 375 mm (15 inches) in diameter or less, unless otherwise indicated. Joints for all precast manhole hole sections shall have, confirmed, rubber "O"-ring gaskets in accordance with ASTM C923. The inside bore diameter shall not be less than 48 inches.
5. **Install flexible watertight frame/chimney seals on all sanitary sewer maintenance holes. Use either Manufactured Maintenance Hole Frame/Chimney Seals or Elastomeric Waterproofing Frame/Chimney Seals.**
6. **Use Nenach Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all sanitary sewer maintenance holes. Covers shall bear the "Sanitary Sewer" label.**
7. **The minimum depth of cover for sanitary sewer without insulation is 5 feet. Insulate sanitary sewer services at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. Insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 8 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to Dow Styrofoam HI-40 plastic foam insulation.**
8. **TRACER WIRE:** Locating requirements – a means to locate buried underground exterior non-metallic sanitary/sewer lines be provided for all Tracer wire shall be installed in order to be located in accordance with the provisions of the Wisconsin Department of Transportation and the Wisconsin Department of Safety and Professional Services SPS 82.30(1)(1)(b).

UTILITY PLAN		CONVENIENCE STORE 175		ALLOUEZ WISCONSIN	
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PROJ. NO.		15179			
DATE		09MAR2015			
SHEET		SP4			

STORES

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, Ste. 1
Plymouth Minnesota 55447
763.383.8400
(ex 763.737.8440)

ALLOUEZ WISCONSIN

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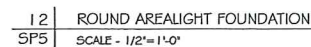
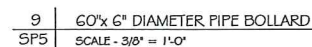
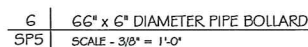
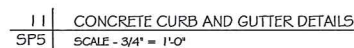
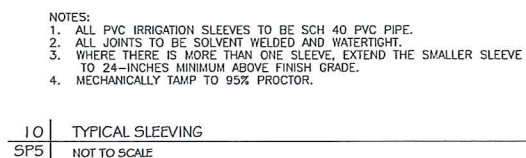
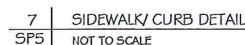
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PROJ. NO. **15175**

DATE **09MAR2015**

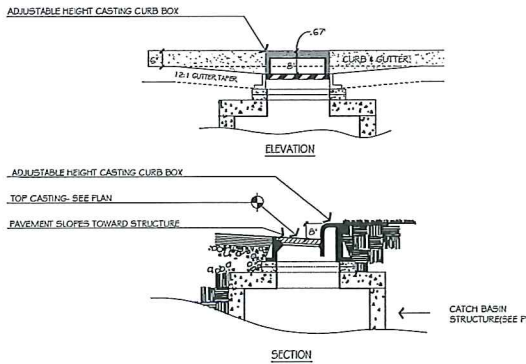
SHEET **SP5**

NOTES 15-011



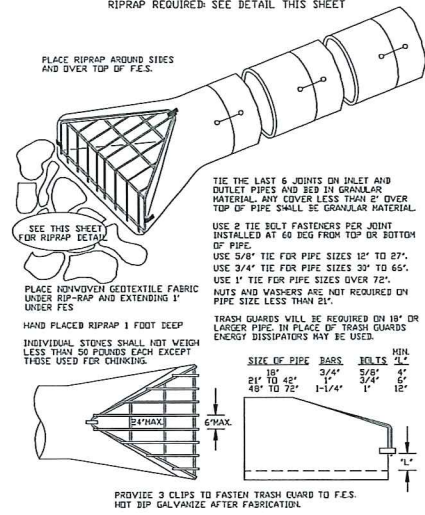
I	GAS ISLAND COMPLEX
SP6	NOT TO SCALE

NOTE: THIS CURB CONSTRUCTION DETAIL IS TO BE USED AT LOW POINTS WHEN INDICATED ON PLAN. SEE GRADE PLAN FOR SPECIFIC CURB ELEVATIONS THAT REFLECT 8" DIFFERENCE FROM TOP OF CURB TO CASTING (SEE ACTUAL CB DETAILS FOR STRUCTURE INFO.)

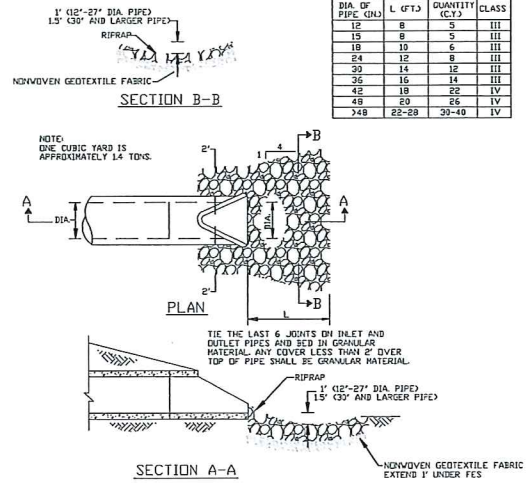


2	CURBLINE DETAIL AT CATCHBASIN CURB, PAVEMENT LOW POINTS (SPECIFIC LOCATIONS)
SPG	NOT TO SCALE

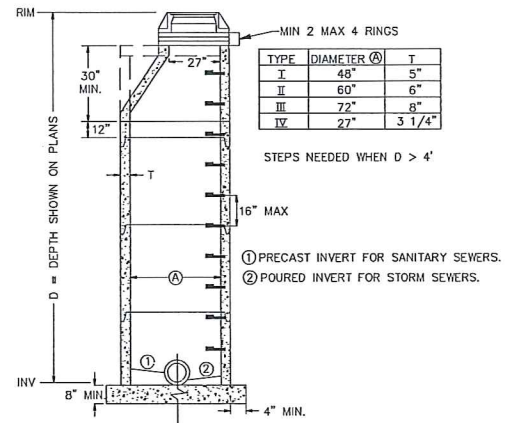
RIPRAP REQUIRED: SEE DETAIL THIS SHEET



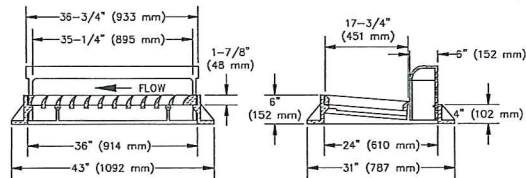
4	FLARED END SECTION WITH TRASH GUARD
SP6	NOT TO SCALE



7	RIP RAP DETAIL FOR FLARED END SECTIONS
SP6	NOT TO SCALE

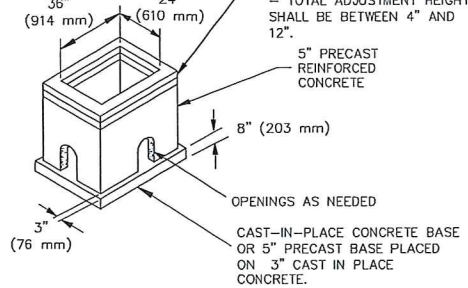


5	PRECAST REINFORCE CONC. MANHOLE
SP6	NOT TO SCALE

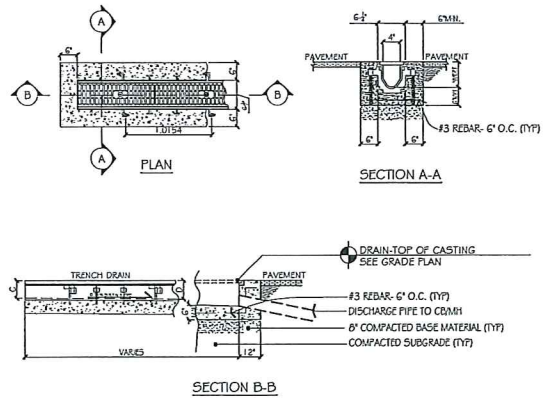


USE NEENAH R-3067 WITH TYPE V GRATE
OR APPROVED EQUAL

ADJUSTING RINGS
 - SHALL BE PRECAST, 2" THICK, AND REINFORCED WITH 8 GAUGE STEEL WIRE.
 - SET EACH RING IN A FULL BED OF MORTAR.
 - TOTAL ADJUSTMENT HEIGHT SHALL BE BETWEEN 4" AND 12".



CAST-IN-PLACE CONCRETE BASE
OR 5" PRECAST BASE PLACED
ON 3" CAST IN PLACE
CONCRETE.



TRENCH SHALL BE PERMA-TRENCH Z 886 SYSTEM- SERIES 8606	
6	Z 886 TRENCH DRAIN DETAIL
SP6	SCALE - 1/4"= 1'-0"

8	24"x 36" CURB INLET AND CASTING DETAIL
SP6	NOT TO SCALE

KWIK TRIP
STORES

KWIK STAR
STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE &
3030 Harbor Lane North, Ste. 131
Plymouth Minnesota 55447
763.383.8400
fax 763.383.8440

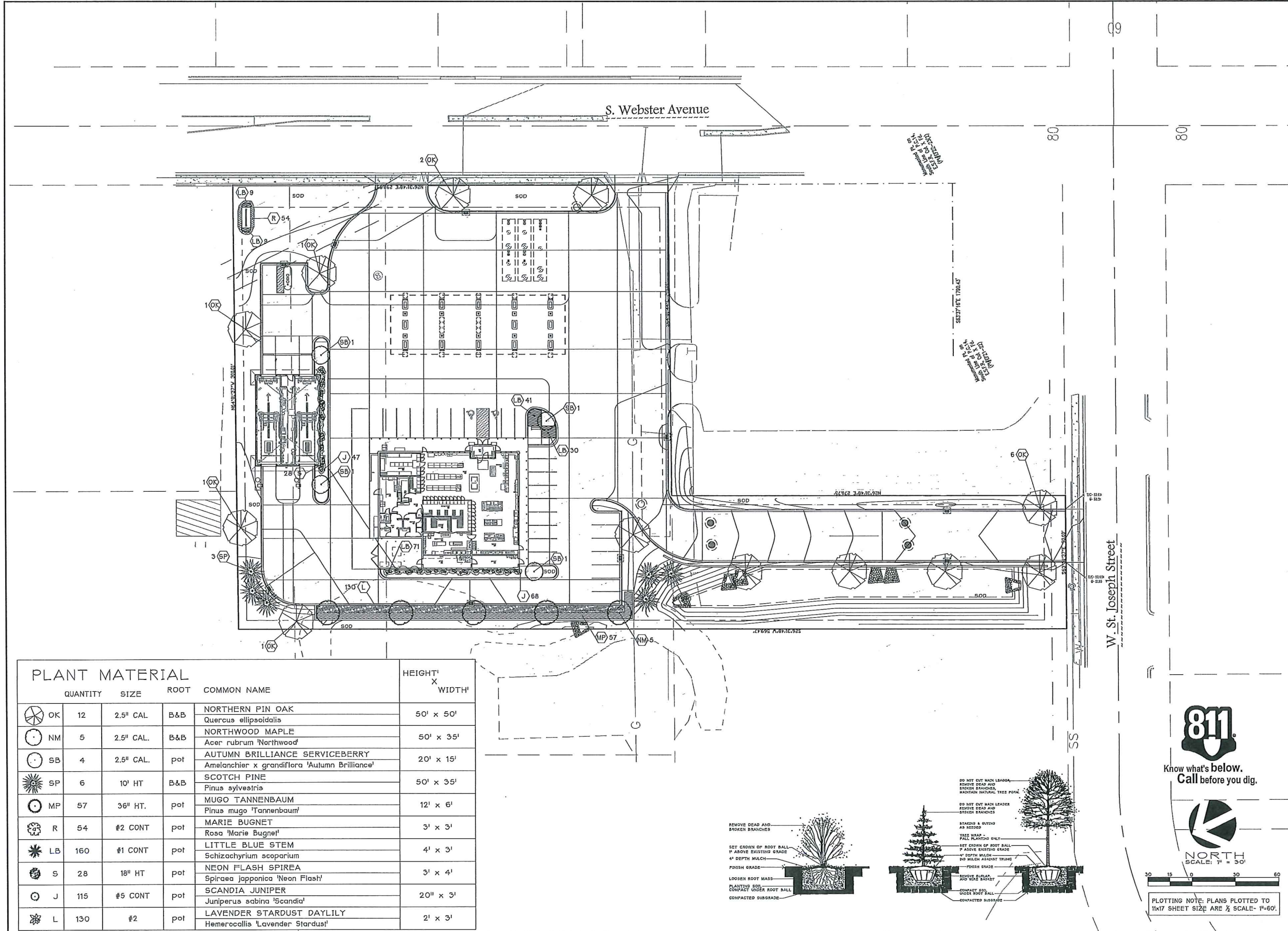
SITE PLAN DETAILS

CONVENIENCE STORE 175

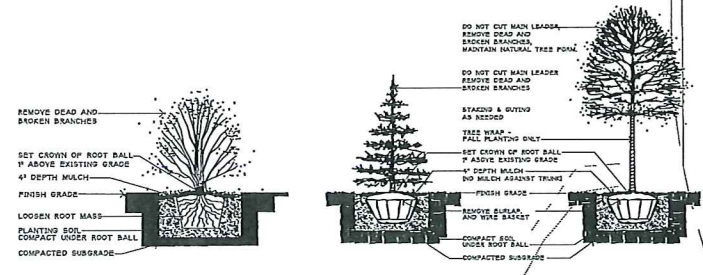
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PROJ. NO. _____ 15175 _____
DATE _____ O9MAR2015 _____
SHEET _____ SP6 _____



PLANT MATERIAL						HEIGHT' X WIDTH'
QUANTITY	SIZE	ROOT	COMMON NAME			
OK	12	2.5" CAL.	B&B	NORTHERN PIN OAK <i>Quercus ellipsoidalis</i>		50' x 50'
NM	5	2.5" CAL.	B&B	NORTHWOOD MAPLE <i>Acer rubrum 'Northwood'</i>		50' x 35'
SB	4	2.5" CAL.	pot	AUTUMN BRILLIANCE SERVICEBERRY <i>Amelanchier x grandiflora 'Autumn Brilliance'</i>		20' x 15'
SP	6	10' HT	B&B	SCOTCH PINE <i>Pinus sylvestris</i>		50' x 35'
MP	57	36" HT.	pot	MUGO TANNENBAUM <i>Pinus mugo 'Tannenbaum'</i>		12' x 6'
R	54	#2 CONT	pot	MARIE BUGNET <i>Rosa 'Marie Bugnet'</i>		3' x 3'
LB	160	#1 CONT	pot	LITTLE BLUE STEM <i>Schizachyrium scoparium</i>		4' x 3'
S	28	18" HT	pot	NEON FLASH SPIREA <i>Spiraea japonica 'Neon Flash'</i>		3' x 4'
J	115	#5 CONT	pot	SCANDIA JUNIPER <i>Juniperus sabin 'Scandia'</i>		20" x 3'
L	130	#2	pot	LAVENDER STARDUST DAYLILY <i>Hemerocallis 'Lavender Stardust'</i>		2' x 3'



Know what's below.
Call before you dig.

NORTH
SCALE: 1" = 30'

0 15 30 45 60

PLOTTING NOTE: PLANS PLOTTED TO 11X17 SHEET SIZE ARE 1/2" SCALE- 1"=60'.

STORES

STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
1030 Harbor Lane North, Ste. 131
Plymouth Minnesota 55447
763.383.8400
fax 763.383.8440

LANDSCAPE PLAN

CONVENIENCE STORE 175

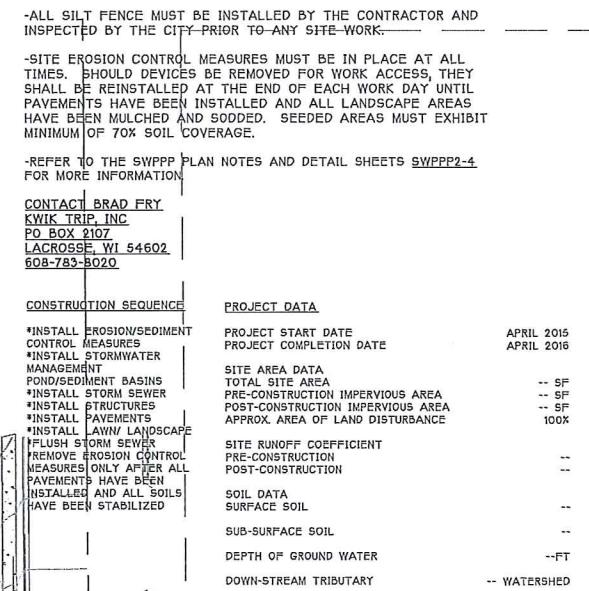
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Apply for and obtain all necessary permits for Construction Activity.

Individual(s) preparing the SWPPP for the project, overseeing implementation of the SWPPP, revising and amending the SWPPP, and at least one individual on the project performing installation, inspection, maintenance, and repairs of BMPs must be trained. The training must be done by a local, state, federal agency; professional organization; or other entities with expertise in erosion prevention, sediment control, or permanent Stormwater management.

The owner is responsible for identifying who will have responsibility for the long term operation and maintenance of the permanent stormwater management systems.

Name: Brad Fry
Company: Kwik Trip Inc.
Address: Kwik Trip, Inc. - Store Engineering
1626 Oak Street, P.O. Box 2107
La Crosse, WI 54601-2107
Telephone: (608) 783-8020

1. Prior to any work, contractor shall visit the site, document existing conditions as necessary (photos, notes, etc) and note existing drainage patterns on and off site that are related to the project. These notes shall be part of the SWPP.

- NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT AND BE MAINTAINED, OR IMPROVED UPON AFTER EVERY STORM EVENT TO ENSURE ADEQUATE PERFORMANCE.

1. Designate a Concrete Wash-out and truck wash area:
Make it visible in the field to vehicle operators and note this on the SWPP plan.

- a. When washouts occur on the site, concrete washout water must be contained in a leak-proof containment facility or impermeable liner. Liquid and solid wastes may not touch the ground and there must not be runoff from the concrete washout operations or areas.
- b. On sites where Concrete Washout areas are not feasible as shown on the Detail Sheet, above ground methods and/or off-site methods can be utilized as approved by Owner.
- c. Concrete washout may be provided off-site by Concrete Contractor or Concrete Supplier, at an approved washout disposal area. Concrete Supplier may provide Concrete Washout Area around their transport for disposal off-site. Concrete Contractor shall verify with Supplier in regards to provided Concrete Washout areas on and off-site, as necessary.
- d. Limit external washing of trucks and other construction vehicles to a defined area preferably before the construction access/exit point. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device. Contain runoff and properly dispose of waste. Engine degreasing is prohibited.
2. **Solid Waste:** Properly dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes in compliance with State requirements.
3. **Hazardous Materials:** Properly dispose of all waste and unused building materials including garbage debris, cleaning wastes, oil, gasoline, paint, wastewater, toxic materials, and hazardous materials off-site. Do not allow waste and unused building materials to be carried by runoff into a receiving channel or storm sewer system. Properly store oil, gasoline, paint, and other hazardous materials in order to prevent spills, leaks, or other discharge. Include secondary containment. Restrict access to storage areas in order to prevent vandalism. Storage and disposal of hazardous materials must be in compliance with regulations.
4. **Machinery:** and mechanized equipment that leaks waste shall have a protective barrier or containment under the device adequate to contain the waste. Properly dispose of the waste.
5. **Emergency spill station:** Contractor shall locate and sign an emergency spill station that has necessary containment or cleanup devices for all workers to access.

Apply necessary moisture to the construction area and haul roads to prevent the spread of dust.

Contractor shall use straw tack or other organic substances in situations to prevent soil from eroding away by wind or rain.

Seeding, fiber blankets, poly/tarps or cover mulches, disked mulches and compost can be used to cover temporarily exposed areas from wind and rain. Other methods by the contractor shall be documented in the SWPPP.

Inlet Sediment Control Protection Devices:

- a. Road Drain Top Slob Mold RD 23 [fits rough opening for 2x3x5 Inset, Road Drain Top Slob Mold RD 27 [fits rough opening for 27" Inset, or Road Drain Top Slob Mold CG 3067 [fits Resnath Coating with 35-1/4"x17-3/4" dimensional manufacturing by WIMCO, 799 The Drive, Shokopee, MI, 55378, Phone [952] 333-3055. or approved equal
- b. Silt Sock manufactured by ACF ENVIRONMENTAL, 2831 Cardwell Road, Richmond, VA, 23254, Phone [800] 448-3636. or approved equal
- c. InfoSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard forms are available to fit 24" to 30" diameter and 2x3x openings. Distributed by ROYAL ENTERPRISES AMERICA, 3022 Forest Boulevard, Stacy, MI, 55078, Phone [952] 462-2150. or approved equal
- d. Ridge Bag Rock Log. Use rock logs only for curb insets after pavement is in place. Manufactured by RED BARN RIDGE, 3135 County Road 136, Saint Cloud, MN, 55301, Phone [320] 253-3744. or approved equal
- e. Infiltrable drain plugs by Interslate Products www.interslateproducts.com or approved equal

Place a 450 mm (18 inch) thick layer of riprap onto a 225 mm (9 inch) thick layer of granular filter material at locations indicated on the plan in accordance with WIDOT Specification 606. Install two layers of medium duty Geotextile fabric (WIDOT HR, section 645.3.7) beneath the granular filter material. At pipe outfalls configure the installation as shown on detail sheet for the size of pipe indicated and extend the geotextile fabric under the culvert apron a minimum of 3 feet. For pipe sizes smaller than 300 mm (12 inch) diameter, the minimum quantity of riprap and filter blanket shall be no less than that required for 300 mm (12 inch) diameter pipes.

Install and maintain per WIDNR Conservation Practice Standard 1056.

Install all fence along the contour (at a level horizontal plane) with the ends turned up [J-hooks] in order to help pond water behind the fence. Install the all fence on the uphill side of the support posts. Provide a post spacing of 12 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the all fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide at each end of the fence and at each support post. The trench should be made by hand or by using a trencher. The trench should be at least 152 mm (6 inches) deep and 152 mm (6 inches) wide. Make any splices in the fabric at a fence post. At splices, overlap the fabric at least 152 mm (6 inches), fold it over, and securely fasten it to the fence post. Splice supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1800 kg per meter (125 lb per lineal foot). Posts shall be driven into the ground with a sledge hammer. The posts shall be driven into the ground to a depth of 152 mm (6 inches) or more. Goextile® fabric shall meet the requirements of WIDOT Standard Specification 628 for precast and cast in place, furnished as a continuous roll in order to avoid splices. Goextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric shall be stored in a dry, well-ventilated area. Fabric shall be stored in a dry, well-ventilated area. In extreme circumstances will require temporary concrete mass sections to support material backing of stock piled soil or filled earth.

Install silt fences, or other effective sediment controls, around all temporary soil stockpiles. Locate soil or dirt stockpiles containing more than 10 cubic yards of material such that the downslope drainage length is no less than 8 m [25 feet] from the toe of the pile to a roadway or drainage channel. If removing for more than seven days, stabilize the stockpiles by mulching, vegetative cover, tarps, or other means. Control erosion from all stockpiles by placing silt fence barriers around the piles. During street repair, cover construction soil or dirt stockpiles located closer than 8 m [25 feet] to a roadway or drainage channel with tarps, and protect storm sewer inlets with silt sacks or stacked fillings. Do not stock pile soil or material near catch basins or drainage ways.

Install and maintain per WIDR Construction Practice Standard 1057. Use 3-inch to 6" diameter rock. Place the aggregate in a layer at least 300 mm (12 inches) thick across the entire width of the entrance. Extend the rock entrance at least 15 m (50 feet) into the construction zone. Use a WIDOT Type R permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with additional stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.

In the construction process or if noted on the plan the contractor shall construct temporary sediment basins. As per general rule the sediment basin shall be sized appropriately to a capacity related to the drainage area on a ratio of 3,600 cubic feet per acre of drainage zone entering the basin. Basins shall be inspected after every rainfall event, material removed and stabilized. If changes to the basin are made, document and amend the SWPP plan.

If dewatering is required and pumps/noise are used, all pumped water must be discharged through an erosion control facility (temporary sedimentation basin, grid chamber, filter, upflow chamber, hydro-cyclone, swirl concrete settling basin, or other appropriate erosion control facility) prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system. Discharge clear water only. To achieve better separation of the material suspended in the water a biodegradable not toxic flocculant agent may be required.

For more information and materials go to: InterstateProducts.com/interstateproducts.com

1. Contractor shall inspect all erosion and sediment control devices, stabilized areas, and infiltration areas on a daily basis until land-disturbing activity has ceased. Thereafter, inspect at least on a weekly basis until vegetative cover is established. Inspect all erosion and sediment control devices, stabilized areas, and infiltration areas within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. Remove accumulated sediment deposits from behind erosion and sediment control devices as needed. Do not allow sediment to accumulate to a depth of more than one-third of the height of the erosion and sediment control devices. Immediately repair or replace damaged, failed, or missing erosion control devices. Document inspection and dates of rainfall events. Maintain a written log of all inspection, maintenance, and repair activities related to erosion and sediment control facilities. All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow access.

2. All inspections and maintenance activities must be recorded in writing DAILY in a detailed recordbook, photographs, sketches, etc, and kept with the SWPPP by the contractor.
3. Contractor shall remove all soils and sediments trucked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction and/or as directed by the City. Erosion control measures shall be in place and maintained at all times. Do not dry sweep. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.
4. All soil hauled from the site shall be accounted for and documented in the SWPPP by the contractor. Its final destination and how the soil has been stored and stabilized.
5. Contractor shall maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenpace). Repair any rilling, gully formation, or washouts. After final stabilization is achieved, remove all temporary synthetic, structural, and nonbiodegradable erosion control devices and all accumulated sediments. Dispose of off site. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.
6. Contractor shall clean sedimentation basins, storm sewer catchbasins, ditches, and other drainage facilities as required in order to maintain their effectiveness. Temporary and permanent sedimentation basins must be drained and the sediment removed when the design sediment storage capacity has been reached. Sediment basins require 1/2 of the storage volume. Drainage and removal must be completed within 72 hours or as soon as field conditions allow access.
7. Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating. Remove sediment immediately ensuring subsolls are not compacted by machinery.
8. Every vehicle shall not track material off-site. Clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device.
9. Contractor shall reinforce erosion control facilities in areas where concentrated flows occur (such as swales, ditches, and areas in front of culverts and catchbasins) by backing them with snow fence, wire mesh, or stiff plastic mesh reinforcement until paving and turf establishment operations have been completed. Posts for the reinforcing fence shall be 100 mm [4 inch] diameter wood posts, or standard steel fence posts weighing not less than 0.59 kg [1 1/3 lbs] per lineal foot, with a minimum length of 762 mm [30 inches] plus burial depth. Spacing between reinforcing fence at intervals of 3 m [10 feet] or less. Drive posts for the reinforcing fence at least 0.6 m [2 feet] into the ground.

(SEE LANDSCAPE PLAN FOR MORE INFORMATION)

Establishment of lawn, prairie/wildflower and/or plant bed areas will be noted on the landscape plan

to ensure stabilization of soils, restocking of sod where applicable, proper watering and much maintenance will be required. Inspect seeded or sodded areas on a timely day-to-day basis. In the event of a seeding failure, reseed and mulch the areas where the original seed has failed to grow and perform additional watering as necessary at no additional cost to the Owner. Special maintenance provisions for wild and prairie grass seeded areas as noted in the landscape plan. Promptly replace all sod that dries out to the point where it is presumed dead and all sod that has been damaged, displaced, weakened, or heavily infested with weeds at no additional cost to the Owner.

In areas to be temporarily seeded use introduced seed mixture equivalent to WIDOT #10 or #20. Apply seed mixture per WIDOT 630.3.3.5. Incorporate a fertilizer (slow release type with 10 week residual) consisting of 23-0-30 [N-P-K] into the soil at an application rate of 224 kg per hectare (200 lbs per acre) by disk prior to seeding. In problematic areas it may be necessary to use a low phosphorus organic fertilizer in cases where seeds may not germinate. If this is the case, seed and fertilizer shall be disked into the surface and mulched properly to ensure germination and uptake of the Phosphorus by the seed.

To ensure adequate germination of the seed the work will be performed as follows:

After September 20, wait until October 30 to perform dormant seeding. Dormant seeding will only be allowed if the maximum soil temperature at a depth of 25 mm [1 inch] does not exceed 4.4 degrees C [40 degrees F] in order to prevent germination.

In seeded areas with slopes steeper than 3:1 and lengths less than 15 meters (50 feet), install biodegradable erosion control blankets uniformly over the soil surface by hand within 24 hours after seeding in accordance with manufacturers recommendations. Use WIDOT Urban Type B or owner approved equal.

In areas where irrigation is to be installed, contractor shall work in zones to finish grade and install the system in zones. Note- Erosion control measures shall remain in place until soils have been stabilized with sod or seeded areas that exhibit minimum of 70% lawn vegetative coverage. If silt fence has to be removed to install the irrigation system, it shall be reinstalled at the end of each work day or use bio rolls to provide protection during the installation process until lawn areas have sod and/or plant beds are mulched.

In areas to be sodded, silt fence can be removed short term for working, but exposed soil areas shall be sodded or erosion control measures shall be reinstalled at the end of each work day.

NOTE: THE PROJECT'S LANDSCAPE PLAN IS PART OF THE SWPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWNER AND DOCUMENTED AS PART OF THE SWPP



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EROSION CONTROL DETAILS

CONVENIENCE STORE 175

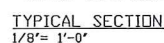
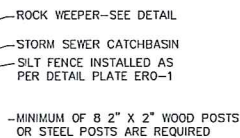
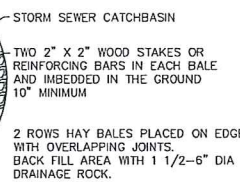
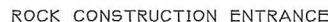
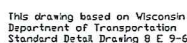
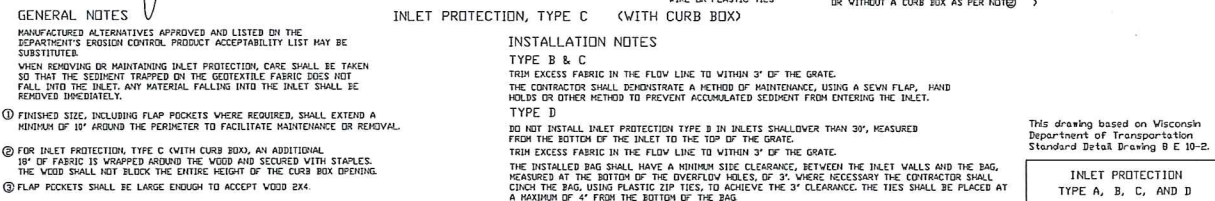
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NO.	DATE	DESCRIPTION
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SCALE _____	GRAPHIC _____
PROJ. NO. _____	15179 _____
DATE _____	09MAR2015 _____
SHEET _____	SWP2

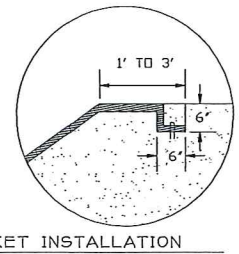
INSITES 15-011

<http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm>



- CONCRETE WASHOUT AREA INSTALLATION NOTES
1. SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS!
 2. THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 3. VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
 5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
- CONCRETE WASHOUT AREA MAINTENANCE NOTES
6. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
 7. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
 8. WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
 9. INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED FUTURE EVENTS TO PREVENT OVER-FLOW.

CONCRETE WASHOUT AREA



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EROSION CONTROL DETAILS

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