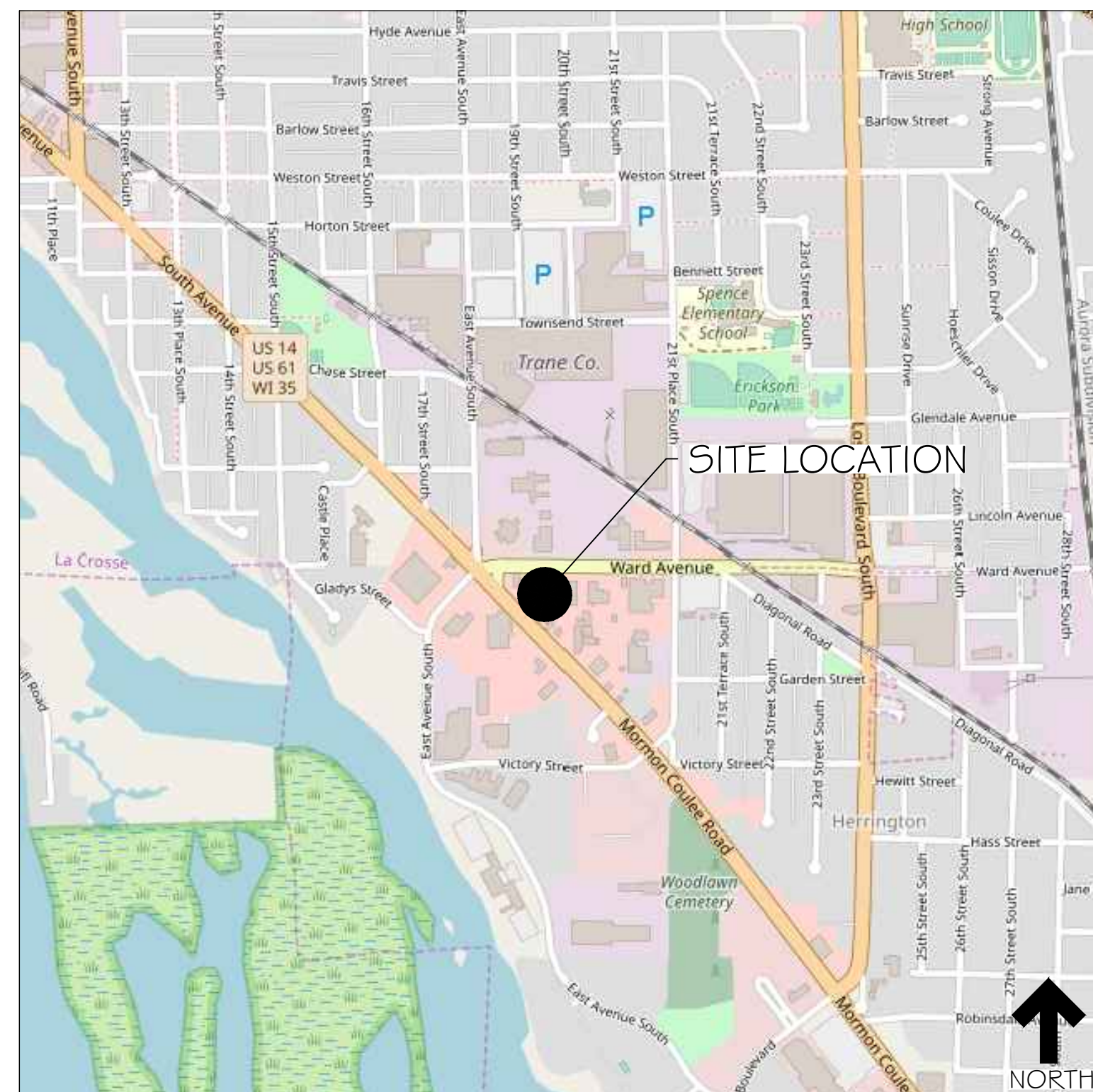


SITE IMPROVEMENT PLANS FOR:

KWIK TRIP #1126
LA CROSSE, WI

SITE LOCATION MAP:



SITE AERIAL MAP:



DRAWING INDEX

T I	TITLE SHEET
ALTA	ALTA SURVEY
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SP I	SITE DIMENSION PLAN
SP I . I	SITE KEYNOTE PLAN
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SP3	STORM SEWER PLAN
SP4	UTILITY PLAN
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SP5	SITE PLAN DETAILS
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SWP4	EROSION CONTROL DETAILS
LI	LANDSCAPE PLAN
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KWIK TRIP

**Kwik
STAR**

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

TITLE SHEET

CONVENIENCE STORE 1126

**MORMON COULEE ROAD
LA CROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
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SCALE _____ GRAPHIC _____

PROJ. NO. _____ 19-1126

DATE _____ 07NOV19

SHEET _____ **T4**

15 13:03 PM 5/11/26

OWNER:
KWIK TRIP INC.
1626 OAK STREET
LA CROSSE, WI 54602
STEVE LOWE
608-793-5954
SLowe@kwiktrip.com

SITE PLANNER:
INSITES SITE PLANNING
3030 HARBOR LN N, SUITE 131
PLYMOUTH, MN 55447
BOB MUELLER
763-383-8400
Bob@InsitesInc.net

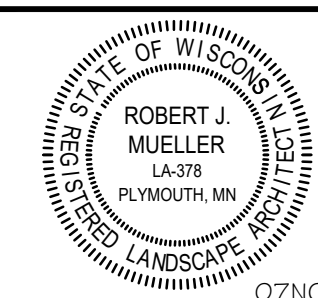
CIVIL ENGINEER:
SUNDE ENGINEERING
10830 NESBITT AVE SOUTH
BLOOMINGTON, MN 55437
952-881-3344

ARCHITECT:
VANTAGE ARCHITECTS
750 3RD ST N, SUITE F
LA CROSSE, WI 54601
608-784-2729

SURVEYOR:
PARAGON ASSOCIATES
632 COPELAND AVENUE
LA CROSSE, WI 54603
608-781-3110



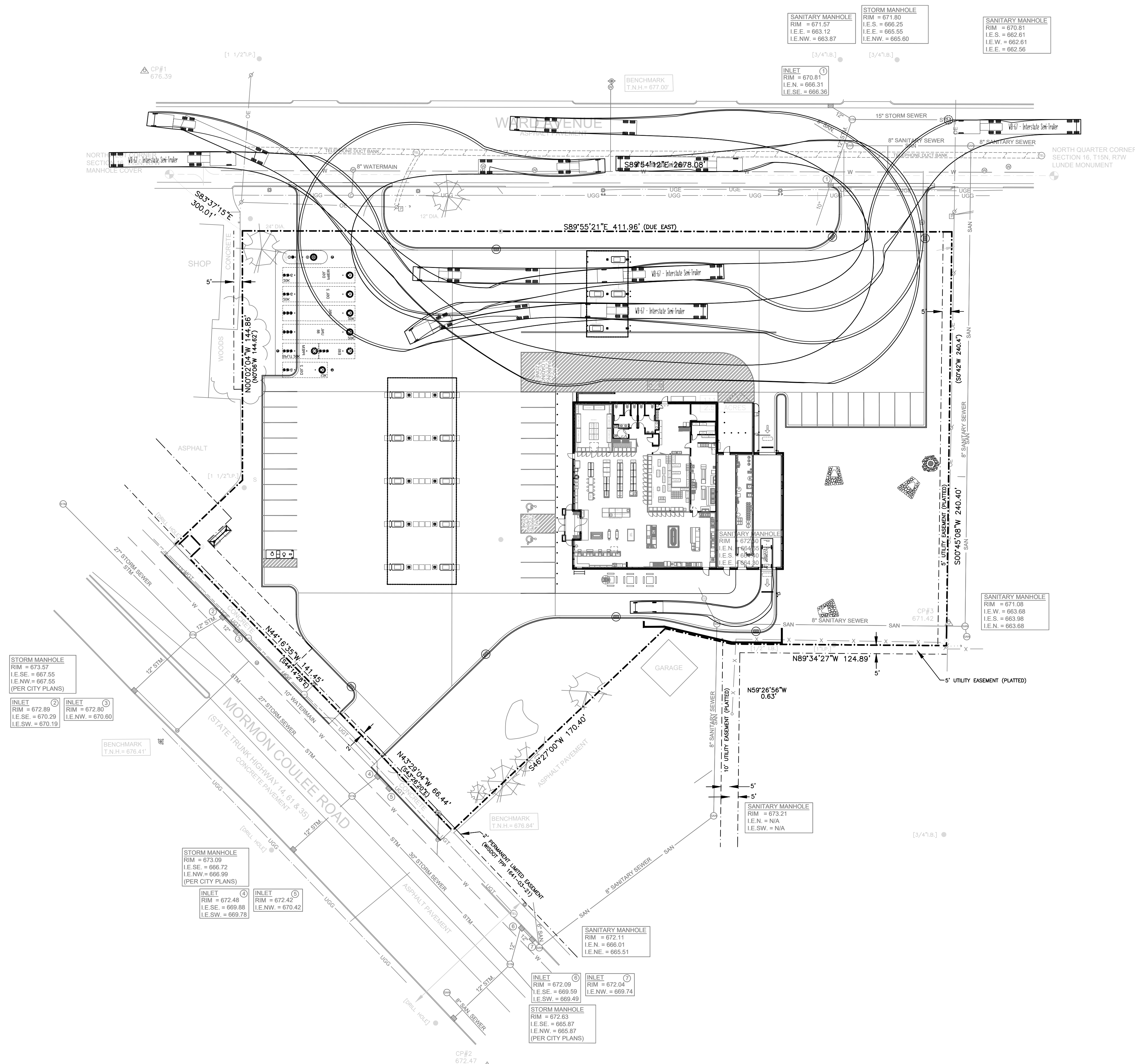
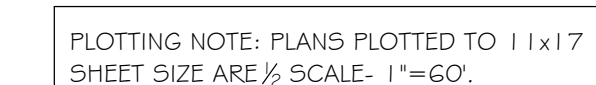
INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
fax 763.383.8440

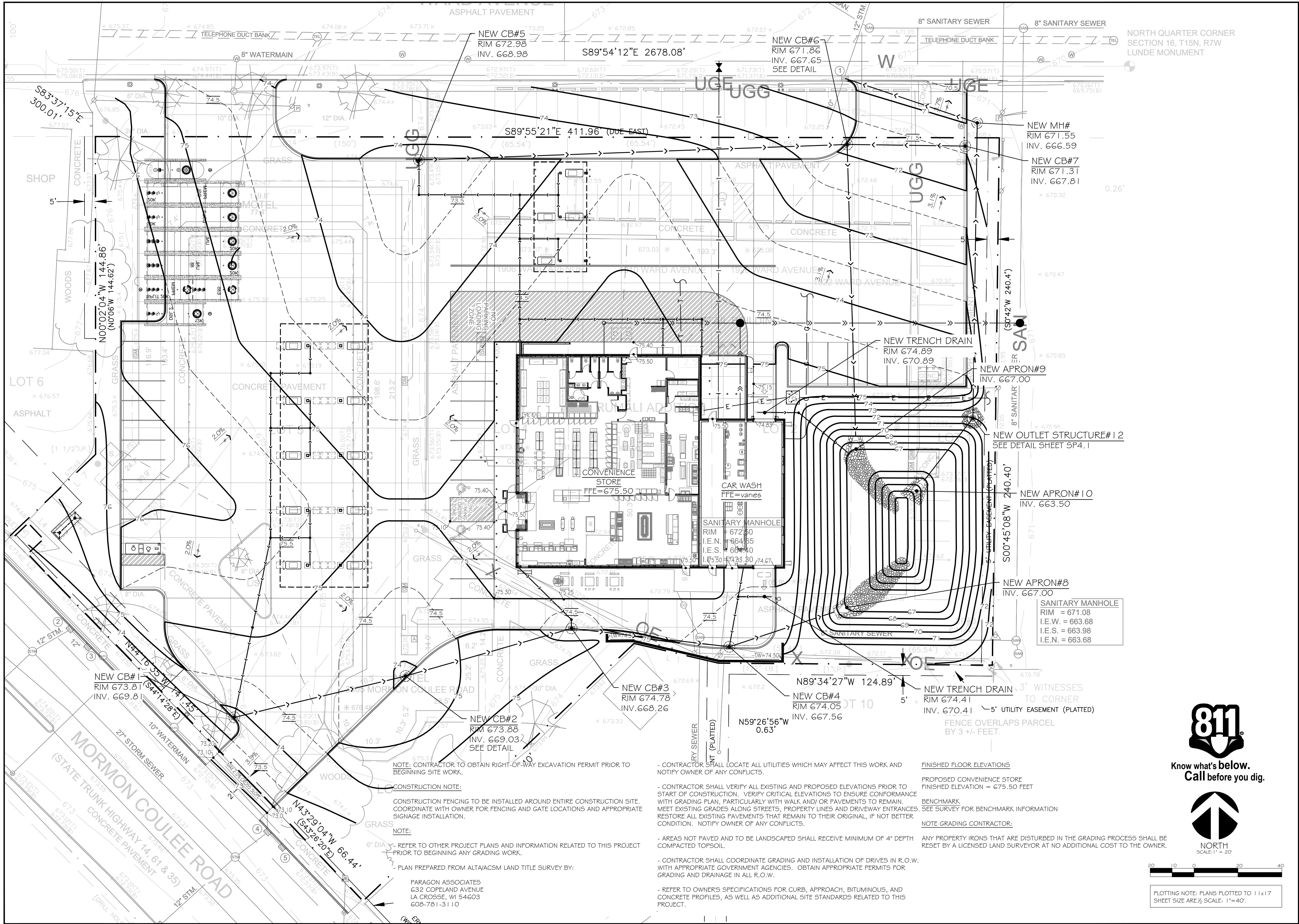


CONVENIENCE STORE 1126

**MORMON COULEE ROAD
LA CROSSE, WISCONSIN**

SP0





Kwik Trip

Kwik Star

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 763.383.8400

STATE OF WISCONSIN
ROBERT J. MUELLER
LANDSCAPE ARCHITECT
07NOV2019

GRADE PLAN

CONVENIENCE STORE 1126

MORMON COULEE ROAD
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
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19-1126

07NOV19

SP2

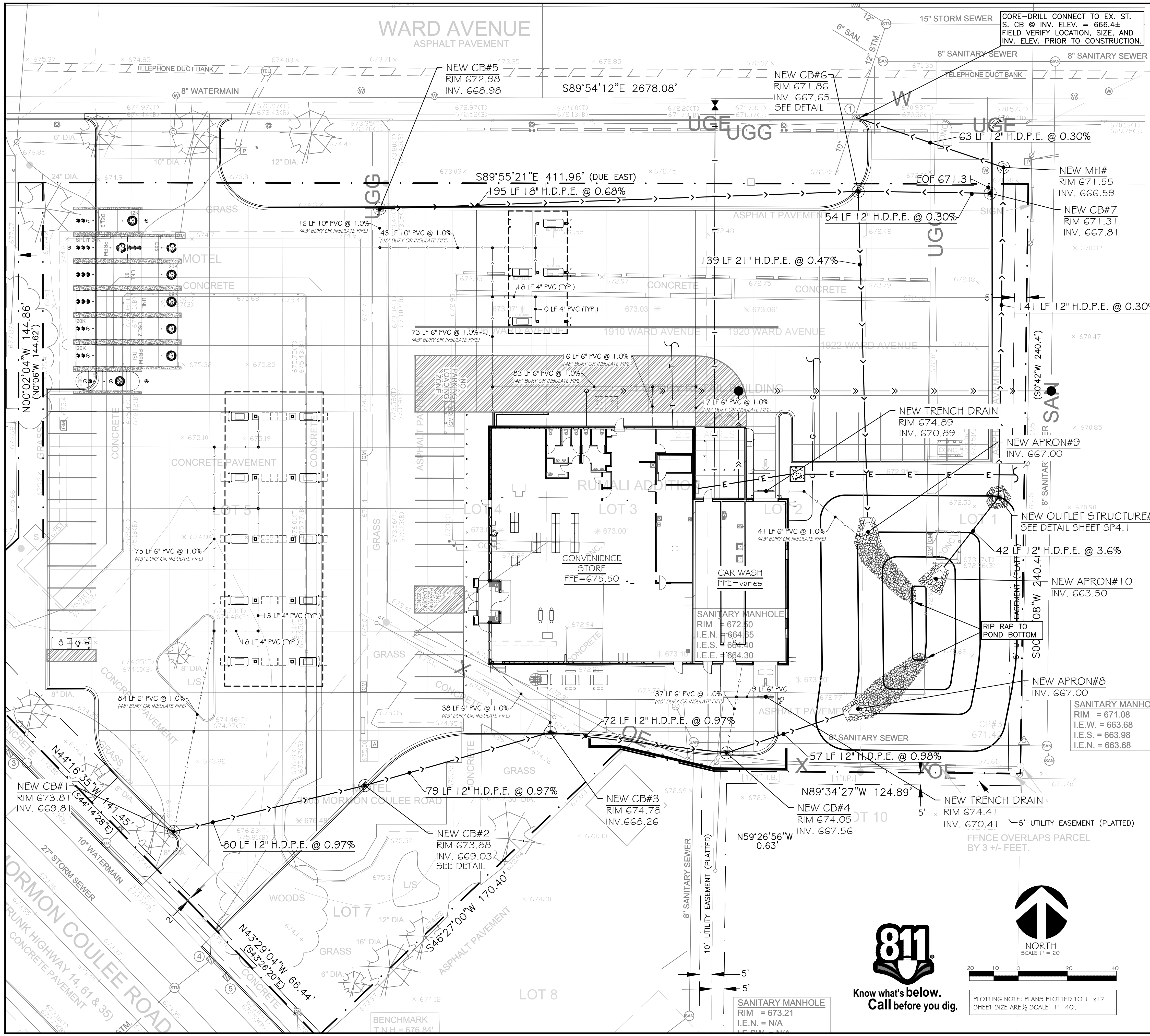
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Know what's below.
Call before you dig.

NORTH
SCALE: 1" = 20'

PLOTTING NOTE: PLANS PLOTTED TO 11x17
SHEET SIZE ARE 1/2" SCALE. 1"=40'.

INSITES 19-039 REV 5.1



Kwik Trip

Kwik Star

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Sunde Engineering, PLLC
1830 NEBBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(612) 881-1334 TELEPHONE
(612) 881-1813 FAX
www.sundepllc.com

BRIAN H. MUNDSTOCK
E-34859
BLOOMINGTON, MN
PROFESSIONAL ENGINEER

STORM SEWER PLAN

CONVENIENCE STORE 1126

MORMON COULEE ROAD
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
1	11/19/19	AS-BUILT
2	11/19/19	AS-BUILT
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SP3

- STORM DRAINAGE:**
- Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C443. These joints are normally used in sewers to hold infiltration and exfiltration to a ground minimum adequate for hydrostatic heads up to 30'. The inside barrel diameter shall not be less than 48 inches.
 - Install catchbasin castings with specified top elevation at the front rim.
 - All joints and connections in the storm sewer system shall be gastight or watertight. Joints between concrete structures and piping shall be made with mechanical joints. Use approved resilient rubber seals or waterstop gaskets in order to make watertight connections to manholes, catchbasins, and other structures in conformance with ASTM C923 or as otherwise permitted by the local authority. Cement mortar joints alone are permitted only for repairs or connections to existing lines having such joints, or unless otherwise permitted by the administrative authority.
 - The building sewer starts 2 feet outside of the building. See Uniform Plumbing Code (UPC) part 715.1. Material installed within 2 feet of the building must be of materials approved for use inside of or within the building.
 - PVC Pipe (Outside of the Building):** Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to 15-inches in diameter outside of the building. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27-inches in diameter outside of the building. Joints for all storm sewer 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 in accordance with Uniform Plumbing Code (UPC), part 605.13.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
 - Cleanouts:** Install cleanouts on all roof drains in accordance with S.P.S. 382.35 (3)(C)(1). Cleanouts shall be installed at every wye, sweep, and bend. The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 4-inch and over in size. Cleanouts shall be of the same nominal size as the pipes they serve. Include frost sleeves and concrete frame and pipe support. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts. Provide cleanouts at the base of the roof leader connections at the gas island pump stations.
 - Fittings:** Provide directional fittings for the storm piping serving the gas island pump stations. All changes in direction of flow in drain piping shall be made by the appropriate use of 45 degree wyes, long or short sweep quarter bends, sixth, eighth, or sixteenth bends, or by a combination of these or other equivalent fittings.
 - RCP:** Reinforced concrete pipe (RCP) and fittings shall conform to ASTM C76, Design C, with circular reinforcing for the class of pipe specified. Use Class IV RCP for pipes 21" and larger. Use Class V RCP for pipes 18" and smaller. Joints shall be made up of concrete surfaces with a groove on the spigot for an O-ring rubber gasket (also referred to as a confined O-ring type joint) in accordance with ASTM C361. These joints are normally used in gravity sewers where exceptional tightness is required. This type of joint provides excellent inherent water tightness in both the straight and deflected position and meets all the joint requirements of ASTM C443.
 - RC Aprons:** Install a reinforced concrete apron on the free end of all daylighted RCP storm sewer pipes. Tie the last three sections (including apron) of all daylighted RCP storm sewer with a minimum of two tie bolt fasteners per joint. This requirement applies to both upstream and downstream pipe inlets and outlets. For concrete culverts, tie all joints. Ties to be used only to hold the pipe sections together, not for pulling the sections tight. Nuts and washers are not required on inside of 675 mm (27 inch) or less diameter pipes.
 - Grates on horizontal pipes:** Install safety-trash grates on all horizontal inlets/outlets greater than 6 inches in diameter. The grates shall be placed so that the rods or bars are not more than 3 inches downstream of the inlet/outlet. Rods or bars shall be spaced so that the openings do not permit the passage of a 6-inch sphere.
 - Testing:** Test all portions of storm sewer that are within 10 feet of buildings, within 10 feet of buried water, lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated in accordance with UPC part 1109.0. Test all flexible storm 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.
 - Drain tile:** Perforated under-drains shall be slotted single wall corrugated HDPE. Install drain tile with high permittivity circular knit polymeric filament filter sock per ASTM D6707-01.
 - Use Neenah R-3067-DR/DL casting with curb box, or approved equal, on CB#1, CB#2, CB#3, CB#4, CB#5, CB#6, and CB#7. Casting shall include the "NO DUMPING, DRAINS TO RIVER." environmental notice.
 - Use Zurn Z886 trench drain model B606N with black acid resistant epoxy coated ductile grate - Class C for proposed trench drain.
 - Use Neenah 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.
 - 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. 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 green Rhino TrView Flex Test Stations, or approved equal, with black caps at each surface location.
 - 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 board 6 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.
 - 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. 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 or when the trench conditions are unsuitable for such work.
 - Line ponds with 2' thick impervious clay liner per detail.
 - Clean sediment and debris from sewers, sumps and stormwater basins prior to final owner acceptance.
 - Televise all existing lines prior to connection.



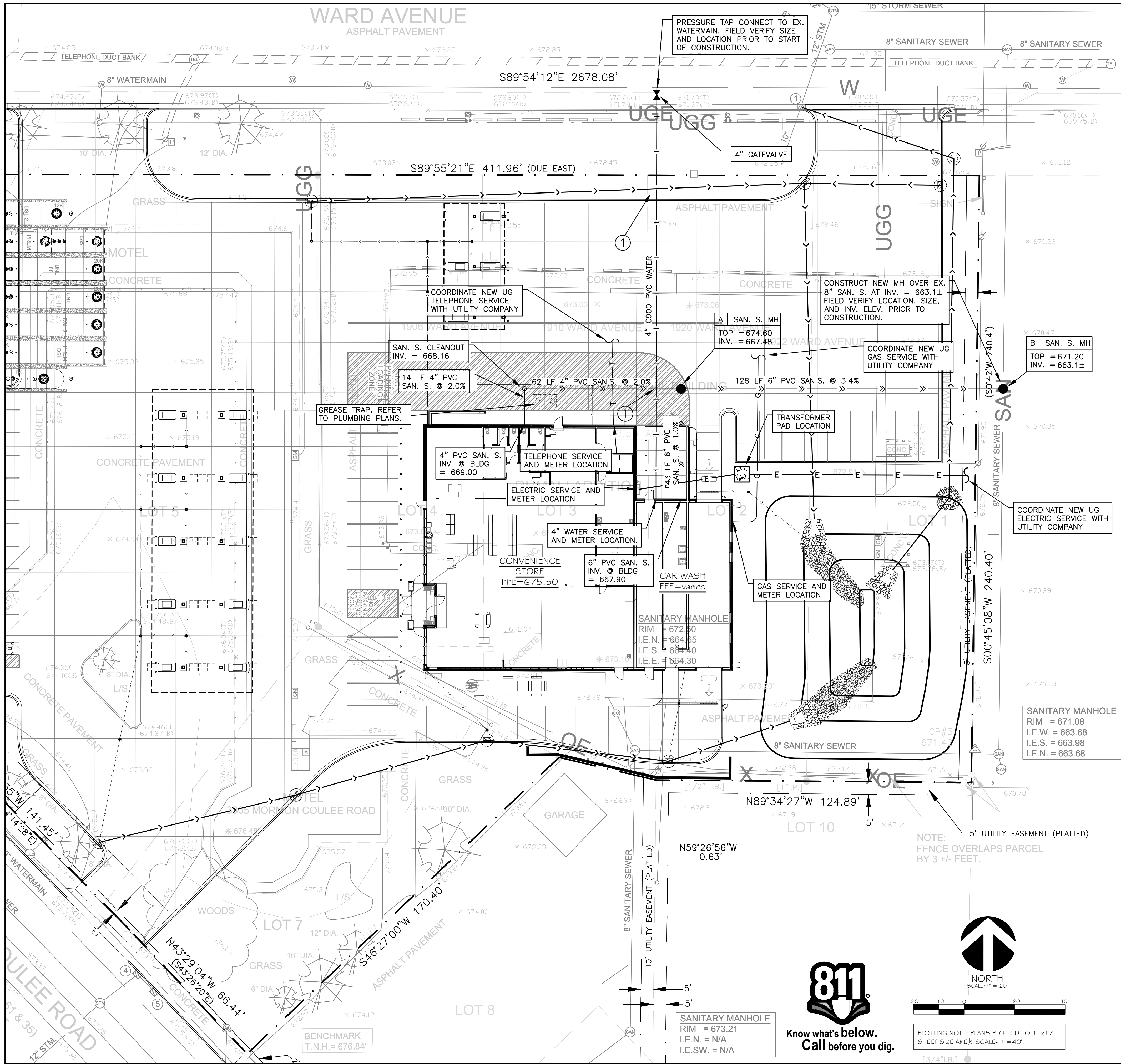
Know what's below.
Call before you dig.



NORTH
SCALE: 1" = 20'



PLOTTING NOTE: PLANS PLOTTED TO 11x17
SHEET SIZE ARE 1/2 SCALE. 1"=40'.



WATER DISTRIBUTION SYSTEM:

- Bring all site utilities to 2' 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.
- Separation of Water and Sewer:** Construct sewer and water services in accordance with Uniform Plumbing Code (UPC) parts 720.0 and 721.0. Provide a minimum horizontal separation of 10 feet between all water and sewer lines, including manholes, catch basins, storm sewer, sanitary sewer, drainline, or other potential sources for contamination. Measure the separation distance from the outer edge of the pipe to the outer edge of the contamination source (outer edge of structures, piping, etc.). At water and sewer crossings, the bottom of the water pipe located within ten feet of the point of crossing must be at least 12-inches above the top of the sewer. When this is not feasible, the sewer pipe material must be approved for use inside of or within a building in accordance with the requirements of UPC part 701.0. No joints or connections are allowed on the water line within 10-feet of the crossing.
- Watermain Depth:** Maintain 7.5-feet of cover over the top of the water lines 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.
- Disinfection:** Disinfect all completed watermains in accordance with AWWA Standard C651. If the tablet or continuous feed methods are used, disinfect using with water that contains at least 50 ppm of available chlorine in accordance with UPC part 609.9. Do not use the tablet method on solvent-welded plastic or on a screwed joint steel pipe because of the danger of fire or explosion from the reaction of the joint compounds with the calcium hypochlorite. Retain the treated water in the pipeline for at least 24 hours. Measure the chlorine residual at the end of the 24 hour period. The free chlorine residual must be at least 10 mg/l measured at any point in the line. Measurement of the chlorine concentration regular intervals shall be in accordance with Standard Methods, AWWA M-12, or using appropriate chlorine test kits.
- 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. Pressure test the water system in accordance with the UPC part 609.4. Pressurize the waterline to a water pressure of 1034-kPa (150-psi) gauge pressure (measured at the point of lowest elevation) by means of a pump connected to the pipe in a satisfactory manner. 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 shall withstand the test without leaking for a period of not less than 15 minutes.
- All water supply piping connected to municipal water main must have a 150 psi minimum pressure rating.
- Copper water services must meet ASTM B88 and be type K soft temper or type L soft temper (see UPC part 604.0.)
- Ductile iron pipe (DIP) water services must comply with AWWA C151/ANSI A21.51 or AWWA C115/ANSI A21.15 (SP) with UPC part 604.0.). Use Thickness Class 52 DIP with push-on joints. Use only ANSI 304 stainless steel bolts and nuts on all watermain fittings, valves, and hydrants. Polyethylene encasement is required on all ductile iron pipe.
- Polyvinyl Chloride (PVC) Building Water Services must comply with ASTM D1785, ASTM D2241, or AWWA C900; pressure rated for water (See UPC part 604.0.). Do not install PVC water service pipe under or within any building, structure, or part thereof.
- 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; laying length 20 feet. Use EBAA Iron, "Series 2000 PV Megalug," or approved equal for restraint on C900 PVC watermain. Lay trace wire with all C900 PVC watermain. Use #12 copper-insulated wire rated for underground service. Connect the wire to all fire hydrants by wrapping the ends three times around the hydrant barrels just below the break off flange and continue back down to the main line. Splice the trace wire by twisting the two ends and heat shrink-wrapping the splice. Do not make more than one splice per 250 feet. Wire nut splices are not allowed. Lay the trace wire below all watermain, fittings, and hydrants. Use only ANSI 304 stainless steel bolts and nuts on all watermain fittings, valves, and hydrants.
- 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 Iron Inc., Eastland, Texas, or approved equal, installed in accordance with manufacturer's recommendations for restraint on Ductile Iron Pipe. Restraining devices are to be plastic, epoxy coating or approved equivalent. Restraining device hardware shall be ANSI 304 stainless steel, or approved equivalent.
- 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 cast iron valve boxes conforming to ASTM A48 at each valve location. Valve boxes shall be the three-piece type with 5-1/4" shafts. Use Tyler 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 Tyler 6860-G "Stayput" covers with extended skirt, or equivalent. All valve hardware shall be ANSI 304 stainless steel, or approved equivalent.
- 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.
- 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 the Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h). 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 TrView Flex Test Stations, or approved equal, with black caps at each surface location.
- Threaded hose connections including hose bibbs and hydrants must include a back flow prevention device in accordance with UPC part 603.0.
- All newly installed or replacement pipes, pipe fittings, plumbing fittings and fixtures, including backflow preventers, that are installed on potable water systems or systems that are designed to distribute water for potable use, are required to meet the Reduction of Lead in Drinking Water Act, which establishes a maximum lead content of 0.25 percent by weighted average of the wetted surfaces. See UPC part 604.11.
- Indicator posts shall be UL/ULC listed and FM approved. Use Mueller A-20806, or approved equal. Indicator posts shall be tapped for tamper switch installation. Coordinate the tamper switch installation, wiring, and underground conduits with the electrician. Install a padlock on the post indicator and provide keys to the Owner.
- Fire hydrants shall be in accordance with the requirements of the local municipality. Do not connect hydrant drains to sanitary sewers or storm sewers. Do not locate hydrants within 10 feet of sanitary sewers or storm sewers. When placing fire hydrants in locations where the groundwater table is less than 8 feet below the ground surface, plug the hydrant drain holes and equip the hydrants with a tag stating the need for pumping after use. Maintain a 3-foot clear space around the circumference of all fire hydrants. All hydrant hardware shall be ANSI 304 stainless steel, or approved equivalent.
- Fire Hydrant Removal:** A fire hydrant assembly consist of a bottom piece, a lower barrel, an upper barrel, and a cap or nozzle section. Each fire hydrant may also have an auxiliary gate valve. At each fire hydrant removal location, completely remove the entire fire hydrant assembly as well as the associated auxiliary gatevalve.

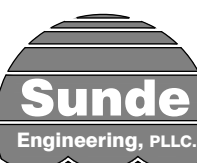
KEYNOTES:

- ① - LOWER WATERMAIN TO PROVIDE 18" MINIMUM CLEARANCE BETWEEN SEWER AND WATER AT CROSSING.

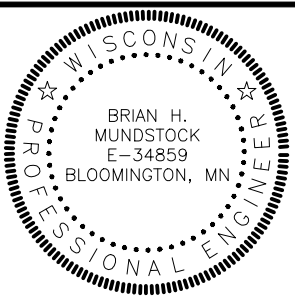
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UTILITY PLAN

CONVENIENCE STORE 1126

MORMON COULEE ROAD
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
-	----	----
DRAWN BY		
SCALE		GRAPHIC
PROJ. NO.		19-1126
DATE		07NOV19
SHEET		SP4

GENERAL :

- Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Paragon Associates dated 10/7/19. The Engineer is not responsible for inaccuracies related to the survey information.
- Perform all construction work in accordance with State and Local requirements.
- Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional engineer (www.osha.gov).
- Safety is solely the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work.
- The Engineer shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures.
- Examine all local conditions at the site, and assume responsibility as to the grades, contours, and the character of the earth, existing conditions, and other items that may be encountered during excavation work above or below the existing grades. Review the drawings, specifications, and geotechnical report covering this work and become familiar with the anticipated site conditions.
- Refer to the architectural plans for building and stoop dimensions, site layout and dimensions, pavement sections and details, striping, and other site features.
- A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and detail dimensions prior to construction staking. Stake the limits of walkways and curbing prior to valvebox, maintenance hole, and catchbasin installation. Adjust valvebox and maintenance hole locations in order to avoid conflicts with curb and gutter. Adjust catchbasin locations in order to align properly with curb and gutter.
- Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.
- Provide all traffic control required in order to construct the proposed improvements. Traffic control design and associated government approvals are the responsibility of the Contractor. Comply with local authorities, the latest version of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Wisconsin Manual on Uniform Traffic Control Devices Supplement to the MUTCD. If the temporary traffic control zone affects the movement of pedestrians, provide adequate temporary pedestrian access and walkways. If the temporary traffic control zone affects an accessible and detectable pedestrian facility, maintain accessibility and detectability along the alternate pedestrian route in accordance with the provisions for pedestrian and worker safety contained in Part 6 of the MUTCD.
- Connect to existing sanitary sewer MH's by coredrilling. Connect to existing storm sewer MH's by either sawcutting or coredrilling. Use saws or drills that provide water to the blade. Meet all City standards and specifications for the connection. Reconstruct invert 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.
- Completely remove existing concrete and masonry structures that are located within the proposed building and future building expansion areas. All other existing existing sewer and watermain pipes that are to be abandoned shall either be removed, or completely filled with sand or lean mix grout.
- Coordinate building utility connection locations at 2 feet out from the

- proposed building with the with the interior Plumbing Contractor prior to construction. Verify water and sewer service locations, sizes, and elevations with the Mechanical Engineer prior to construction. Coordinate construction and connections with the Mechanical Contractor.
- 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."
- The locations of existing utilities shown on this plan are from record information. The Engineer does not guarantee that all existing utilities are shown or, if shown, exist 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.
- The Contractor is solely responsible for all utility locates. 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 the various utilities at the site. Provide the Owner with the ticket number information. 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.
- Pothole 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.
- 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.
- 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 includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown 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.
- Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. 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. Tack and match all connections to existing bituminous pavement.
- Relocate overhead power, telephone, and cable lines as required. Seal and report any existing unused on-site wells and septic systems.
- 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.
- Reconstruct driveways and patch street to match existing pavement section and grade. Sod right-of-way. The work area shown is general and may need to be adjusted in the field.
- Restore the public right-of-way at temporary construction entrance locations. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or vegetative cover 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.
- Provide positive drainage away from buildings at all times. Provide and maintain temporary drainage throughout construction until the

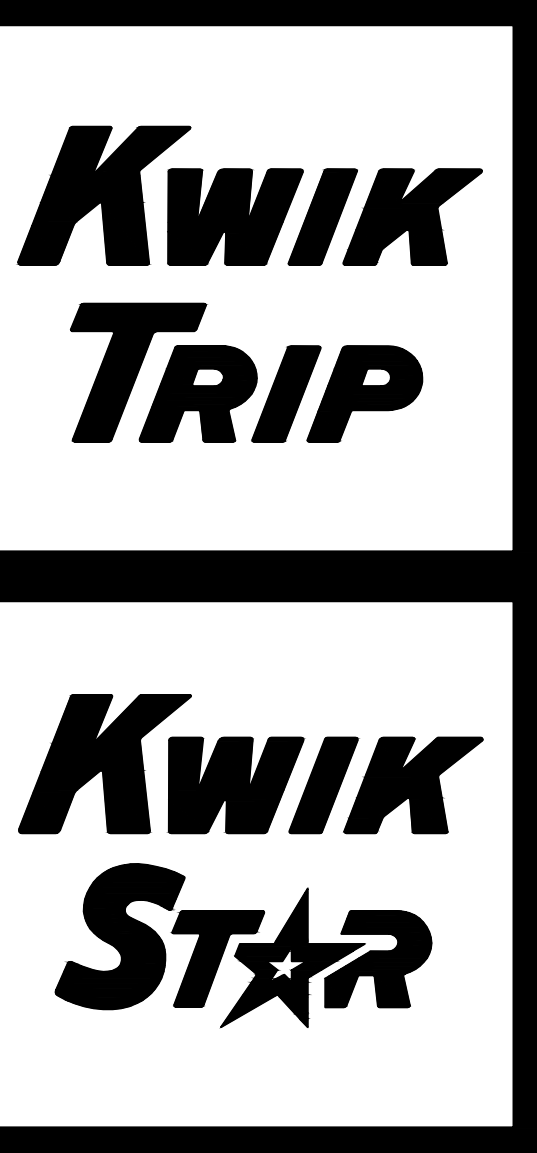
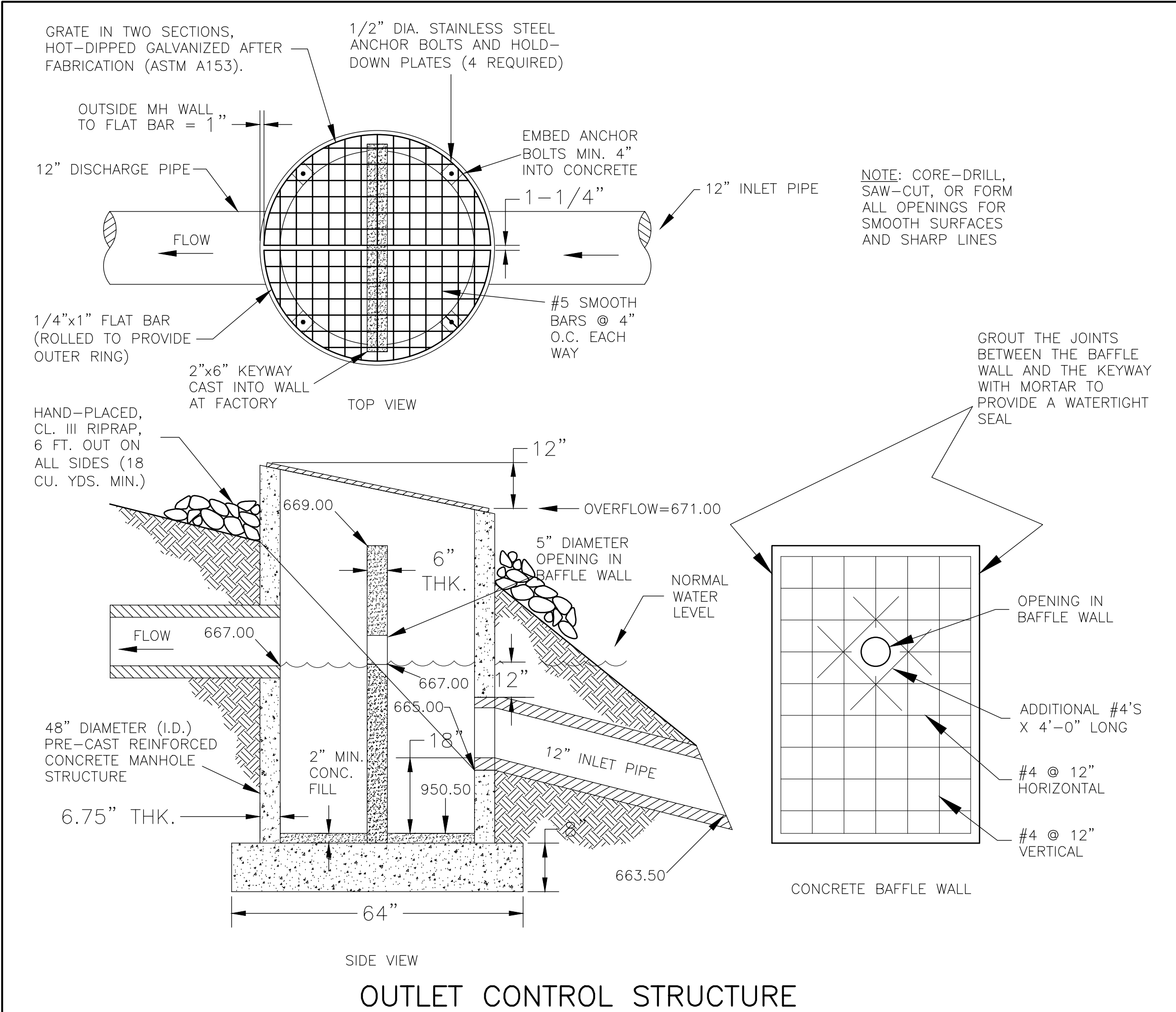
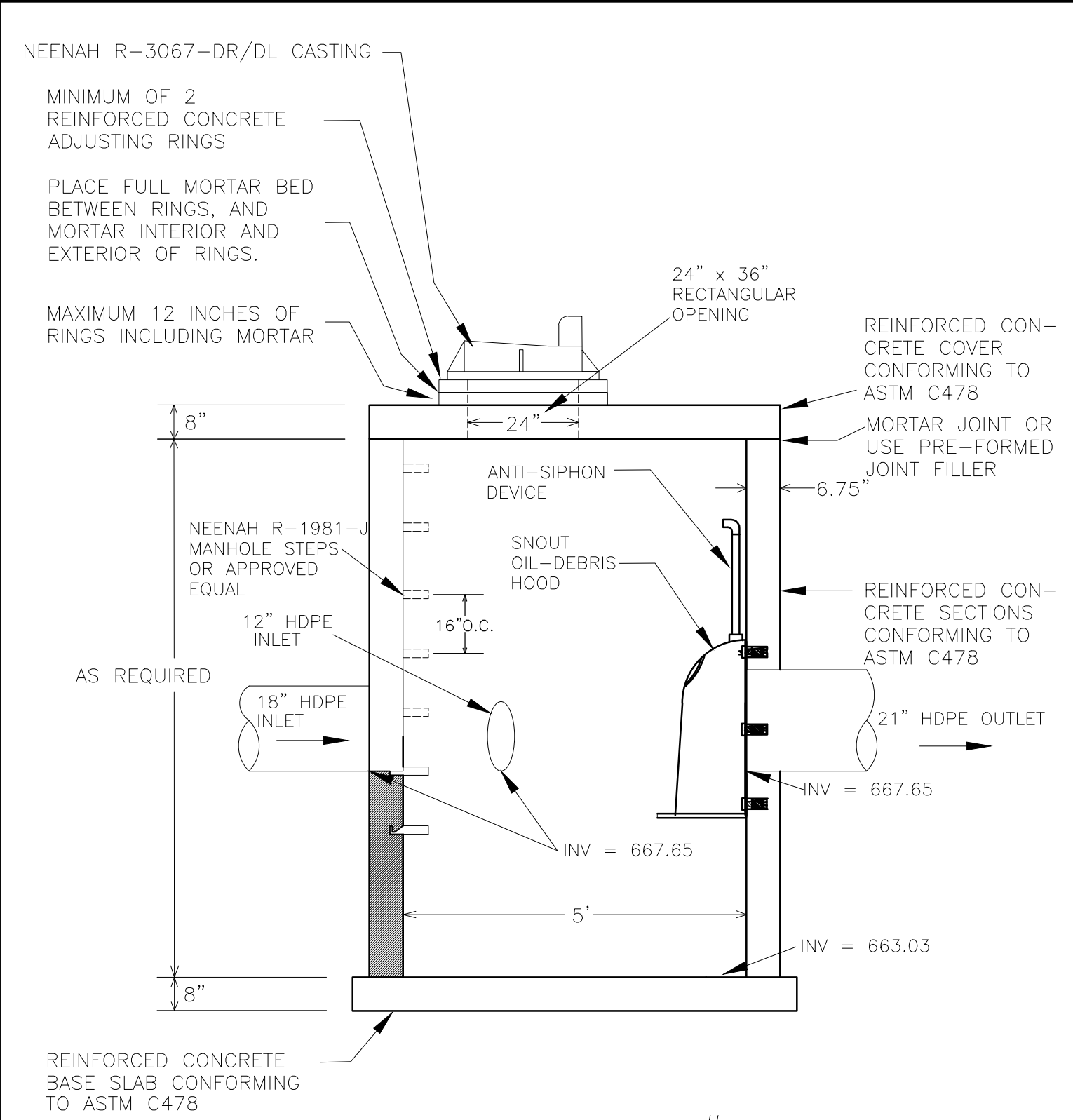
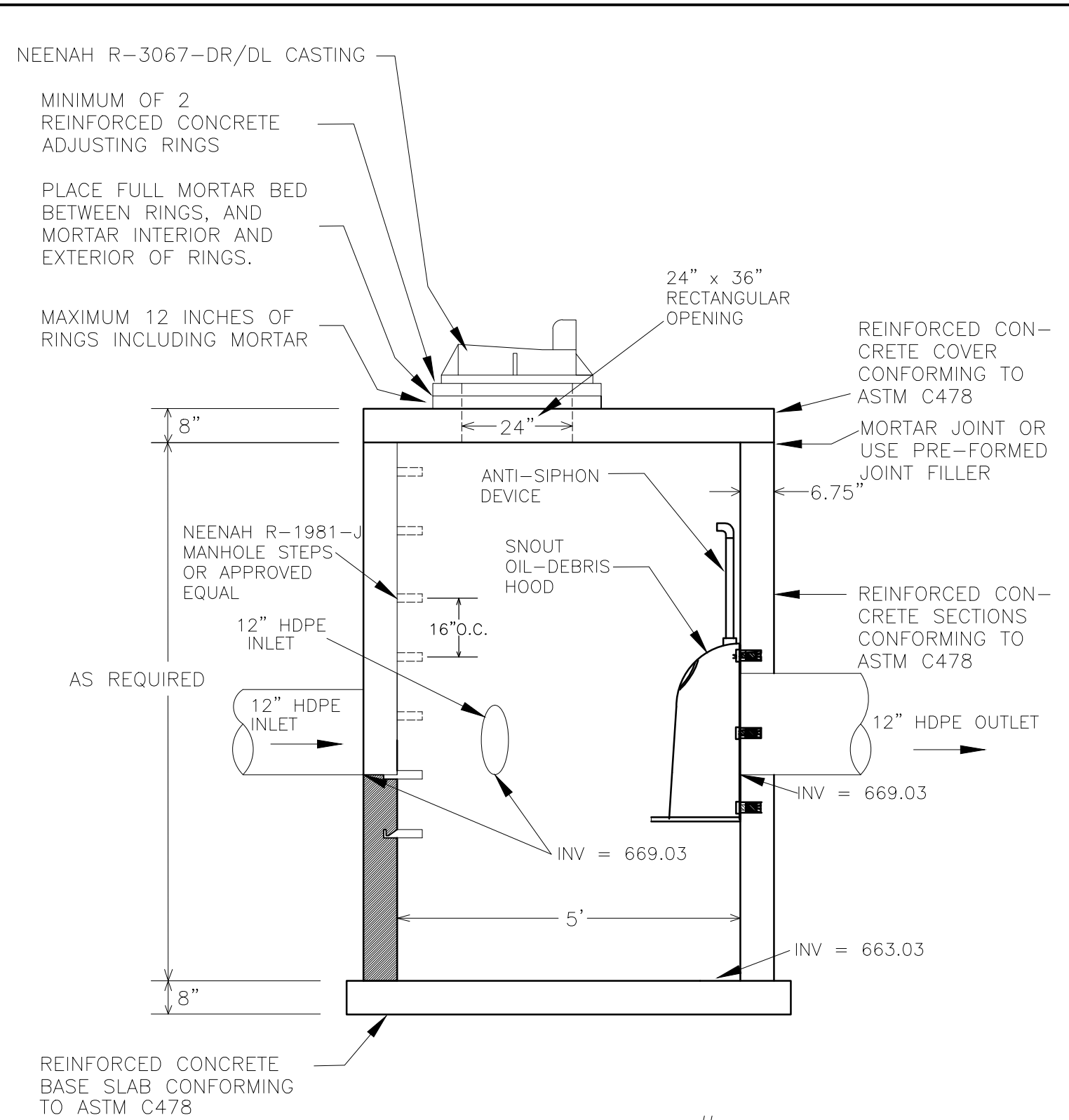
- permanent drainage system and structures are in place and operational. Install temporary ditches, piping, pumps, or other means as necessary in order to insure proper drainage at all times. Provide low points at building pads or roadways with positive outfalls.
- Protect sub grades from damage by surface water runoff.
- Full design strength is not available in bituminous pavement areas until the final lift of asphalt is compacted into place. Protect pavement areas from overloading by delivery trucks, construction equipment, and other vehicles.
- 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.
- Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.
- 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 upgrade. 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 or when the trench conditions are unsuitable for such work.
- Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project including the NPDES permit from the State. 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.
- Obtain permits from the City for work in the public right-of-way.
- Refer to the geotechnical report by the Soils Engineer for dewatering requirements.
- 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 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.
- Insulate utility lines at locations indicated on the plans. Provide a minimum insulation thickness of 4 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 on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene Insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thk.
- 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.
- 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.
- See architectural for building waterproofing and foundation drainage.
- Secure and deliver to the Owner as-built information showing locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts, inlet and outlet pipes, valves, hydrants, and related structures. Location ties shall be to permanent landmarks or buildings.
- Place #3 rebar at 3' on center in all 6" thick concrete pavement locations. Place #4 rebar at 3' on center in all 8" thick concrete pavement locations.
- Place #4 x 2'-0" tie bar at 3' on center in all concrete curb and gutter.

SANITARY SEWER :

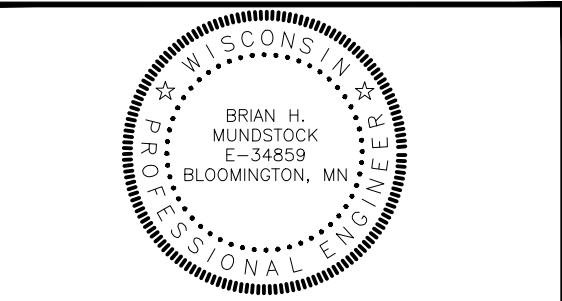
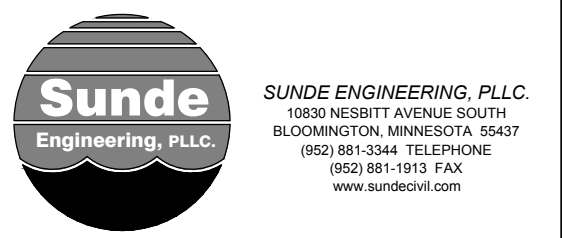
- Unless otherwise indicated, use reinforced, precast, concrete maintenance holes conforming to ASTM C478, furnished with precast bases. Sanitary sewer maintenance holes shall be supplied with pre-formed inverts and flexible neoprene sleeve connections for all lateral lines 375 mm (15 inches) in diameter or less, unless otherwise indicated. Joints for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C443. These joints are normally used in sewers to hold infiltration and exfiltration to a practical minimum and are adequate for hydrostatic heads up to 30'. The inside barrel diameter shall not be less than 48 inches.
- All joints and connections in the sewer system shall be gastight or watertight. Joints between concrete structures and piping shall be made with mechanical joints (resilient rubber seal/boot and clamp) in conformance with ASTM C923, ASTM C654, or as otherwise permitted by the local authority. Cement mortar joints are not allowed unless otherwise permitted by the administrative authority.
- The building sewer starts 2 feet outside of the building. See Uniform Plumbing Code (UPC) part 715.1. Material installed within 2 feet of the building must be of materials approved for use inside of or within the building.
- Pipe: Use solid-core, Schedule 40, ASTM D2665 Polyvinyl Chloride (PVC) Plastic Pipe for all designated PVC sanitary sewer services outside of the building. Joints for all sanitary sewer 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 in accordance with Uniform Plumbing Code (UPC) part 605.13.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
- Cleanouts: Install cleanouts on all sanitary sewer services in accordance with UPC part 719.0 and 1101.12. The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 4-inch and over in size. Cleanouts shall be of the same nominal size as the pipes they serve. Include frost sleeves and concrete frame and pipe support. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts.
- Testing: Pressure test all sanitary sewer lines in accordance with the UPC parts 712.0 and 723.0. 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.
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- 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.
- Use Neenah 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.
- 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 the Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h). Install detectable underground marking tape directly above all pvc, polyethylene, and other nonconductive underground utilities to 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 green Rhino TriView Flex Test Stations, or approved equal, with black caps at each surface location.
- 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 4 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 on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene Insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thk.
- 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 upgrade. 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 or when the trench conditions are unsuitable for such work.
- Televise all existing lines prior to connection.

HDPE REQUIREMENTS :

- Install dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe at locations indicated on the plan.
- HDPE pipe shall conform to the requirements of AASHTO M252 for pipe sizes 4-inch to 10-inch diameter.
- HDPE pipe shall conform to the requirements of ASTM F2306 for pipe sizes 12-inch to 60-inch diameter.
- All fittings must comply with ASTM Standard D3212.
- Water-tight joints must be used at all connections including structures in conformance with ASTM F2510.
- HDPE pipe connections into all concrete structures must be made with water tight materials utilizing Nyaplast "Manhole Adaptors" along with Press-Seal or Kor-N-Seal "Watertight Connector", Cast-A-Seal "Precast Watertight Connector", or approved equals. Where the alignment precludes the use of the above approved watertight methods, Conseal 231 WaterStop sealant, or approved equal will only be allowed as approved by the Administrative Authority.
- Lay all HDPE pipe on a continuous granular bed. Installation must comply with ASTM D2321. All sections of the corrugated HDPE pipe shall be coupled in order to provide water tight joints.
- 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 have a diameter equal to 95% of the inside diameter of the pipe. The ball or mandrel shall be clearly stamped with the diameter. Perform the tests without mechanical pulling devices.



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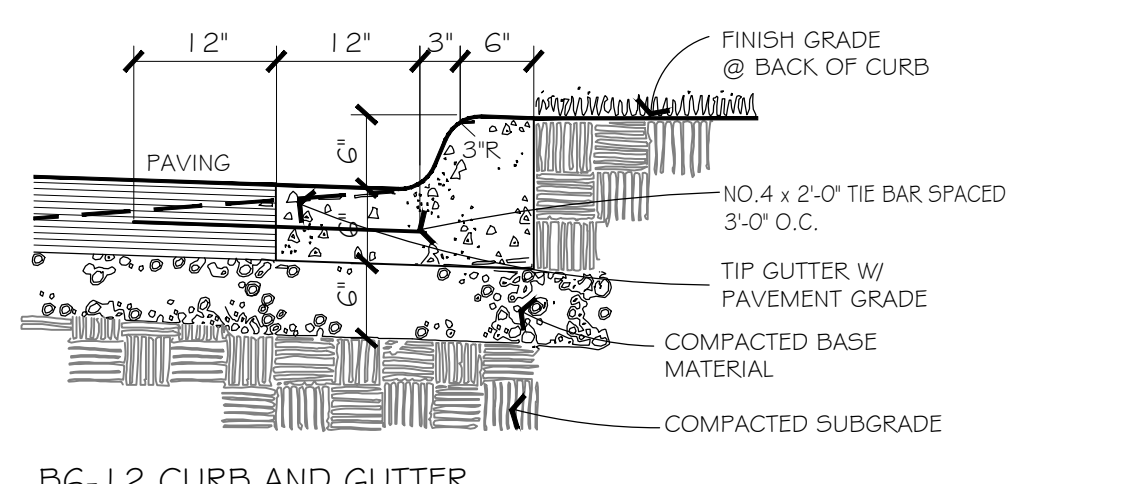
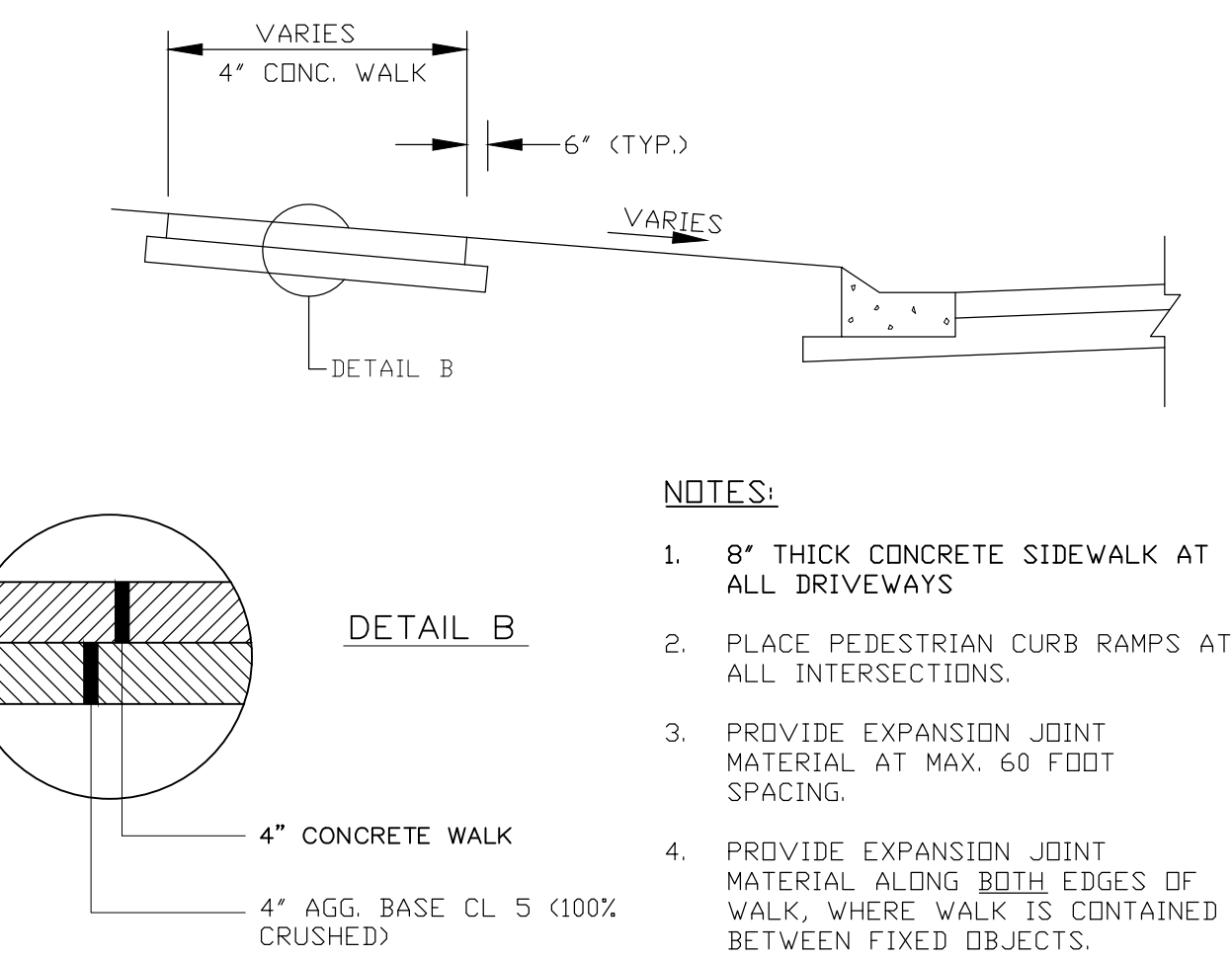
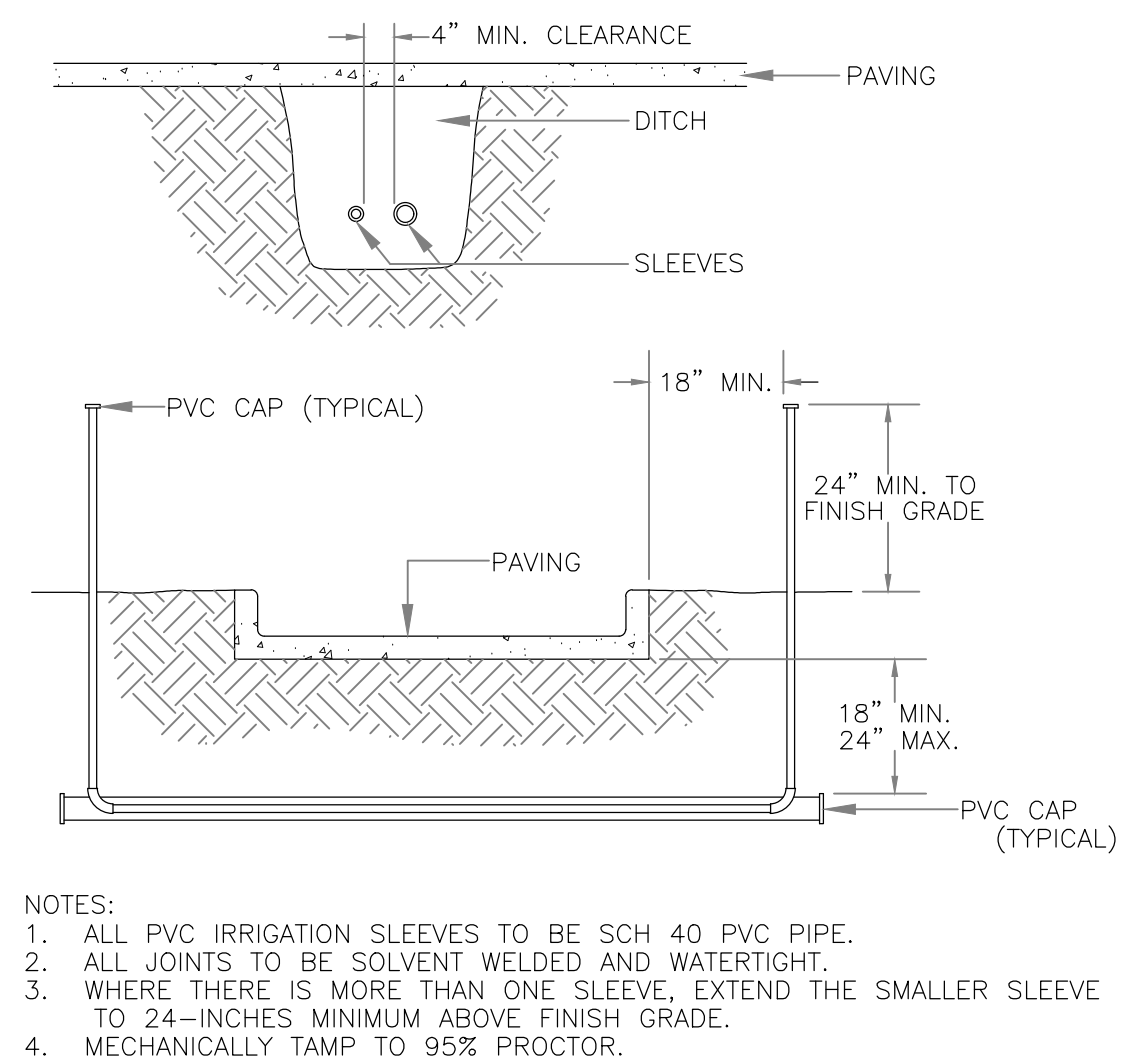
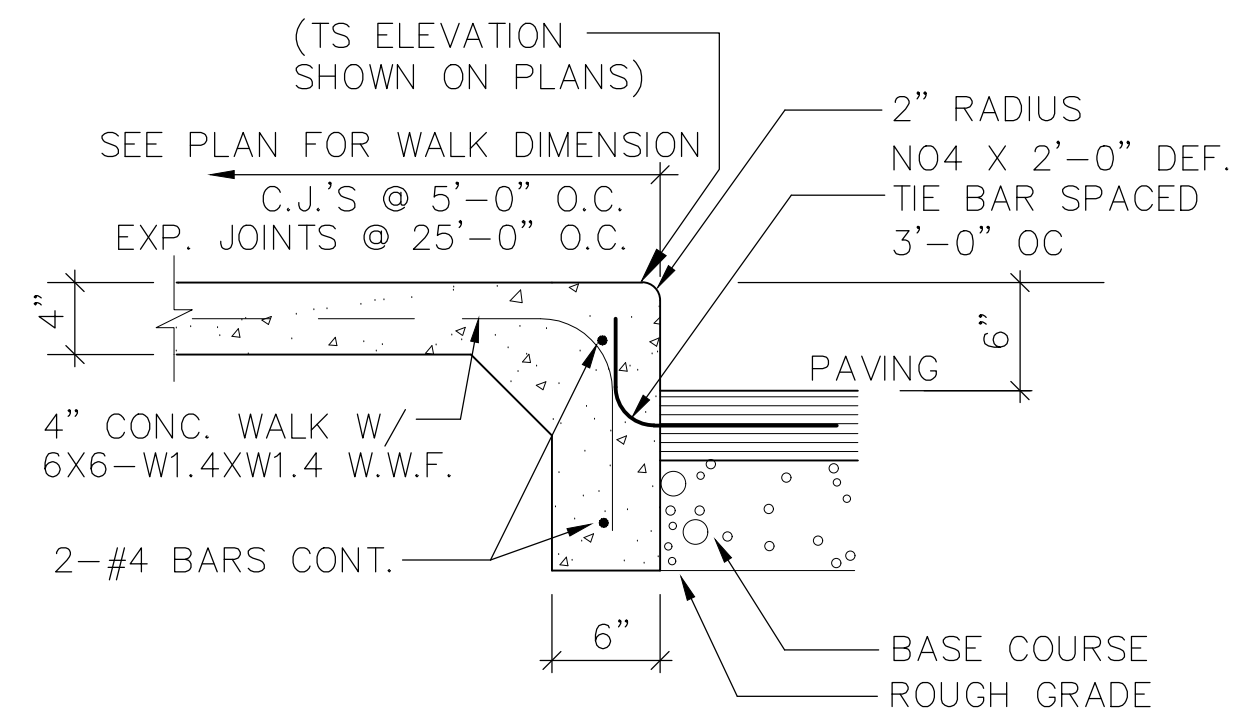
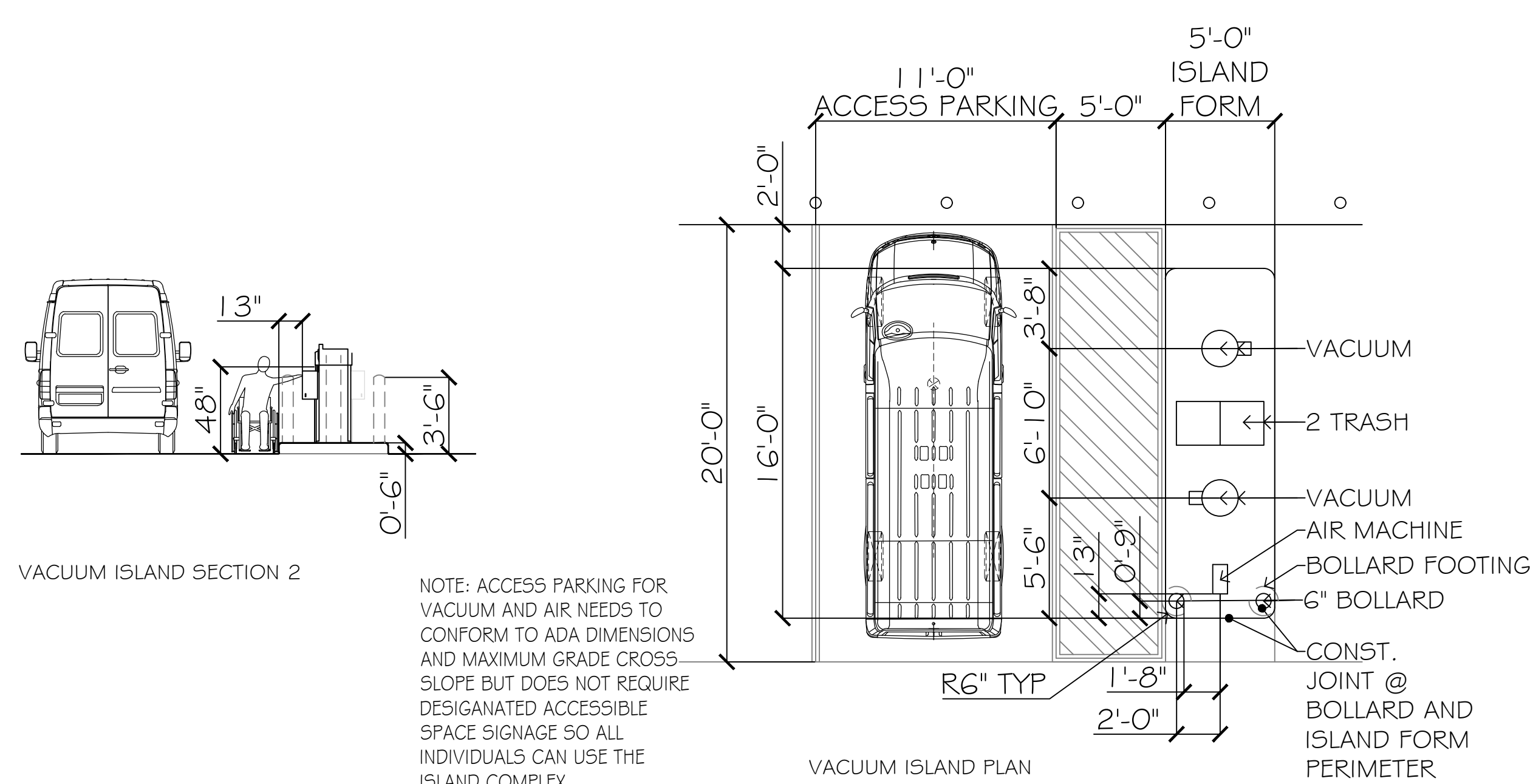
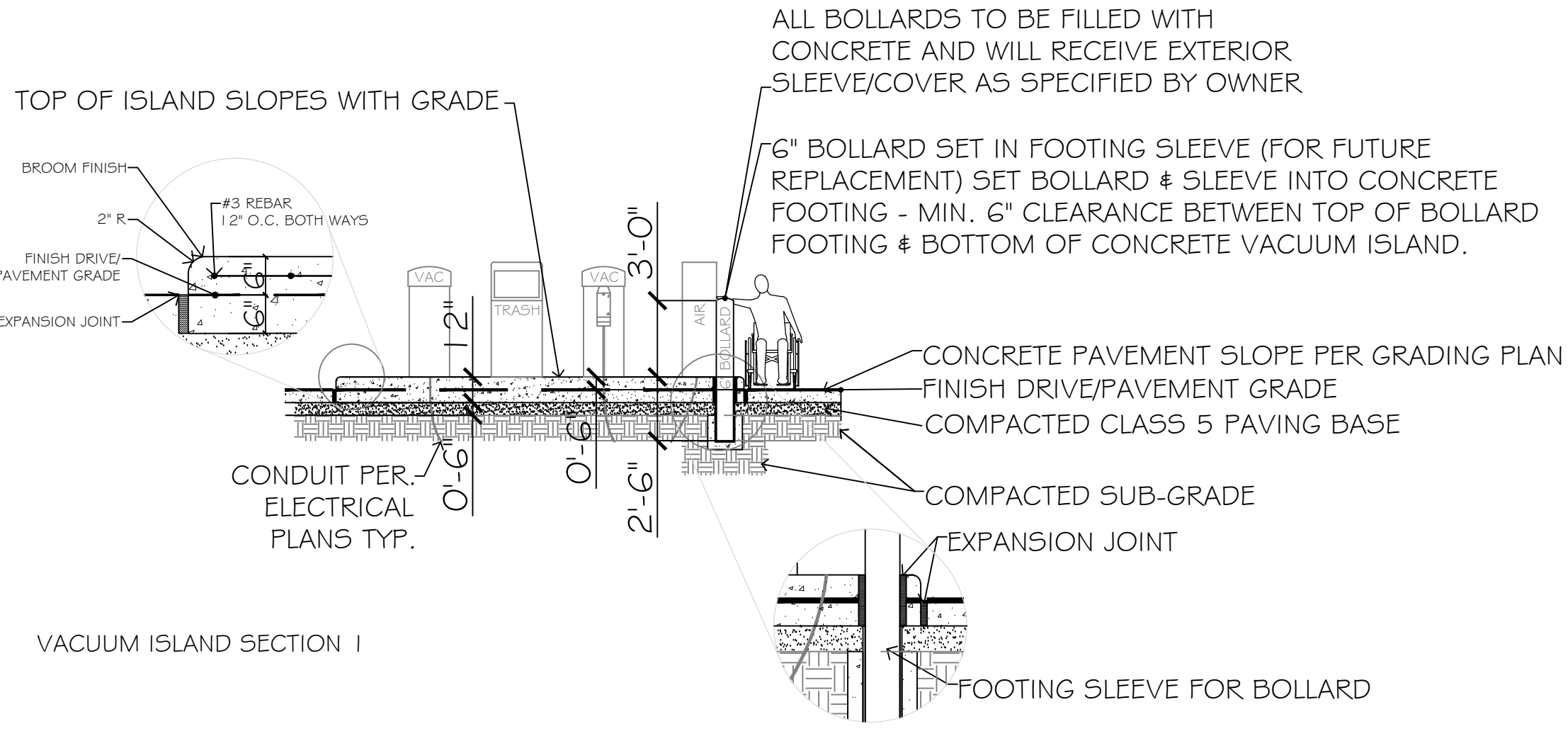
UTILITY NOTES AND DETAILS

CONVENIENCE STORE 1126

MORMON COULLEE ROAD
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
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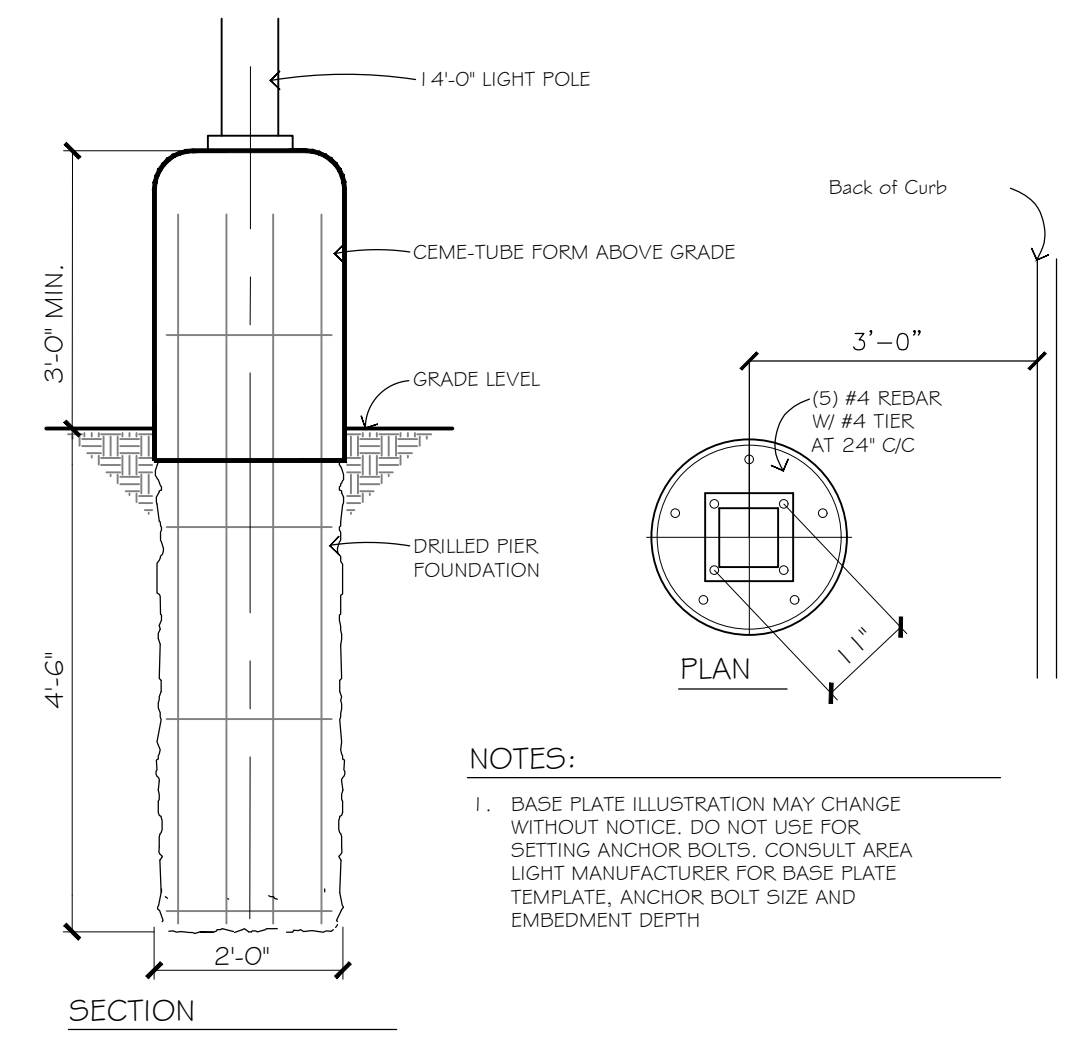
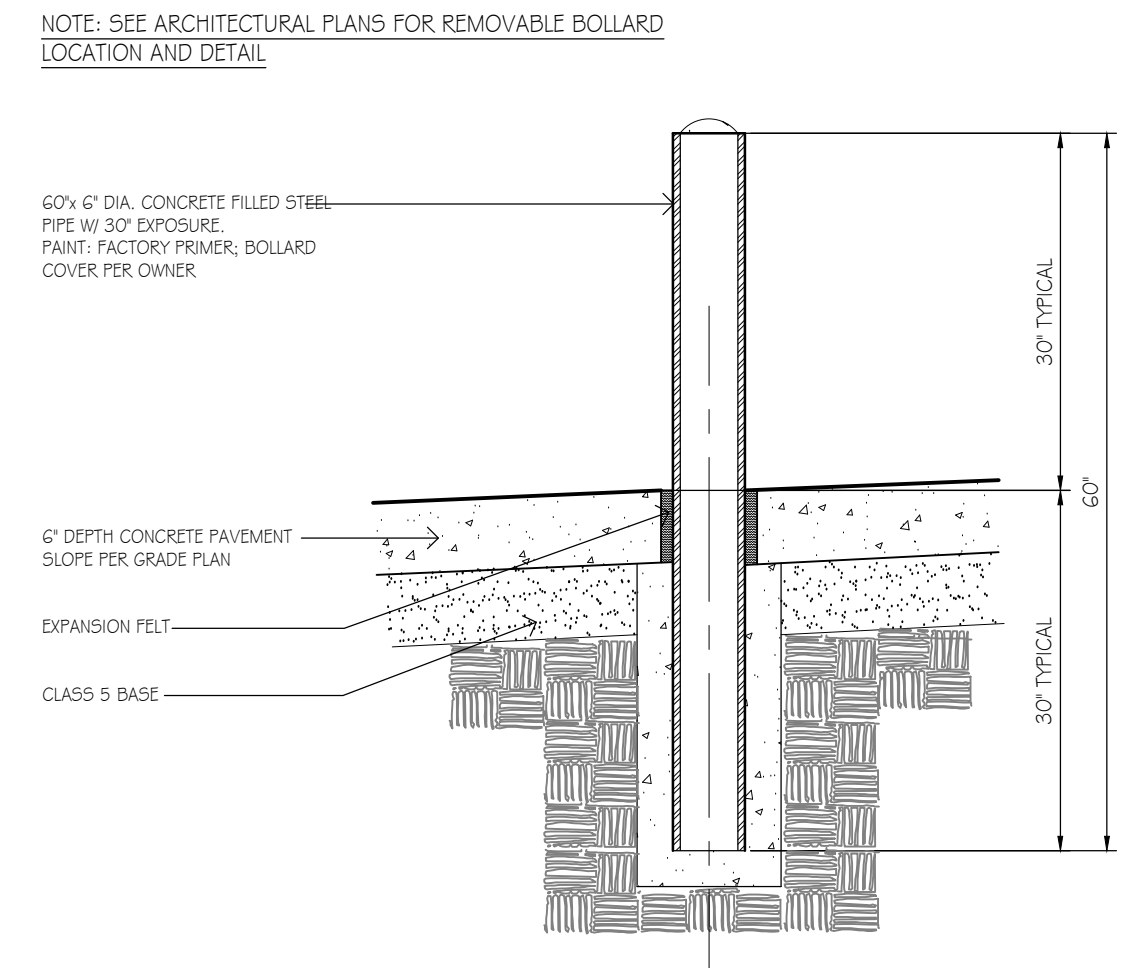
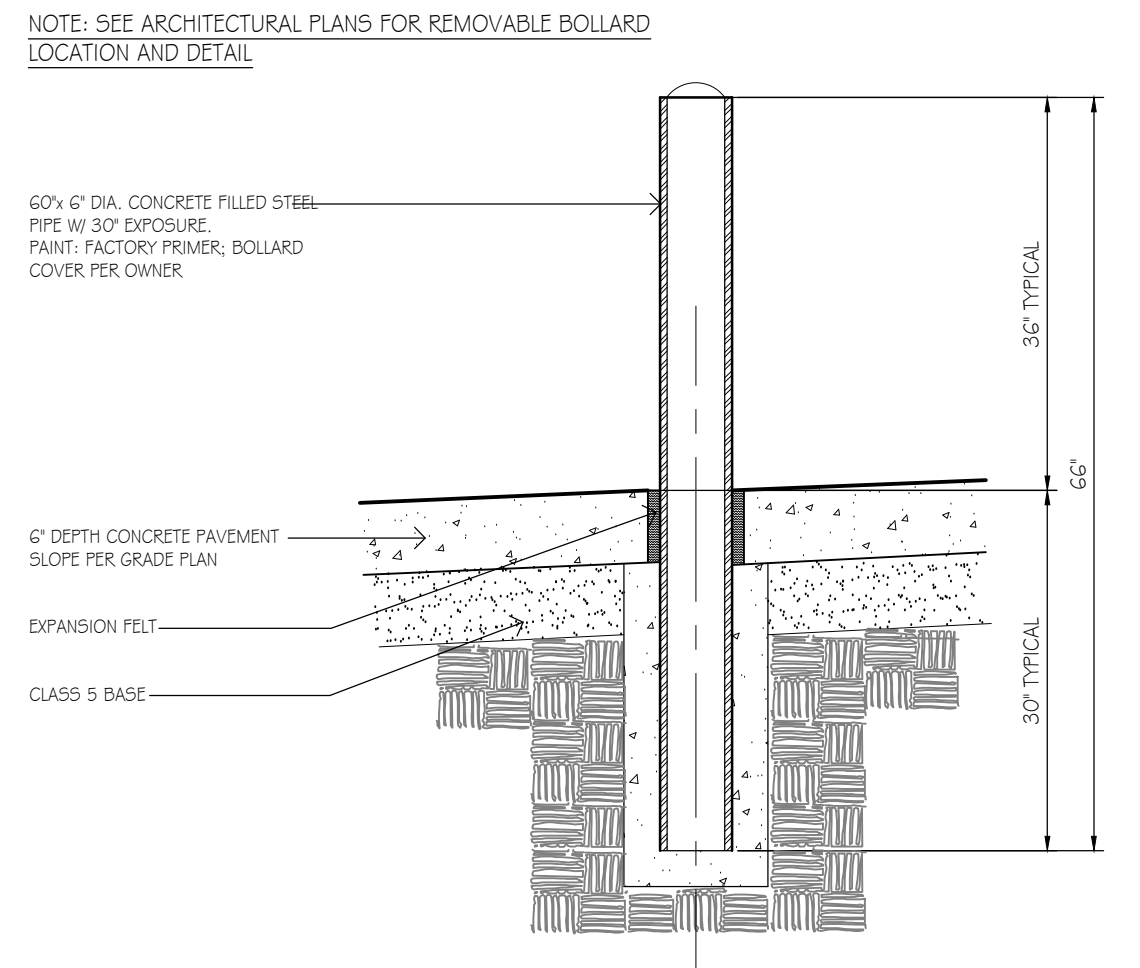
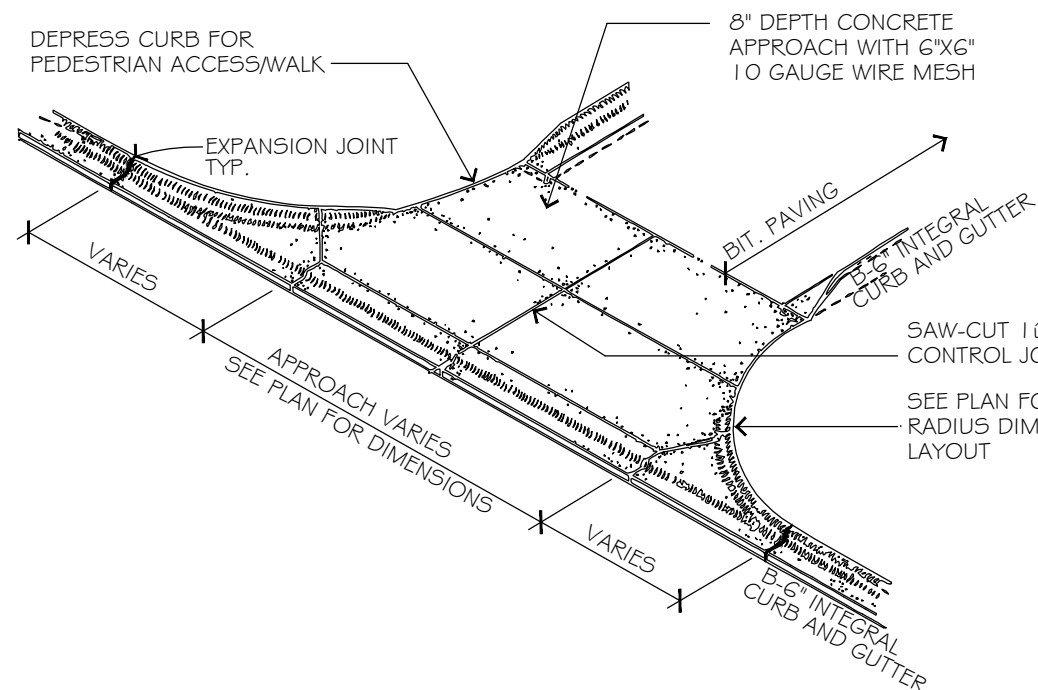
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2 | VACUUM ISLAND DETAILS
SP5 | NOT TO SCALE

8 | CONCRETE WALK/ PAD DETAIL
SP5 | NOT TO SCALE

11 | CONCRETE CURB AND GUTTER DETAILS
SP5 | SCALE - 3/4\"/>



3 | CONCRETE APPROACH DETAIL
SP5 | NOT TO SCALE

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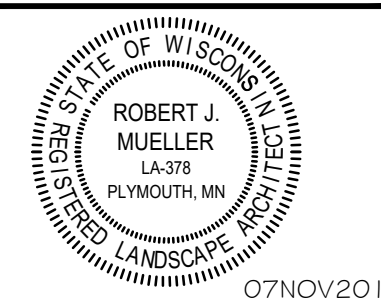
12 | ROUND AREALIGHT FOUNDATION
SP5 | SCALE - 1/2\"/>

**Kwik
TRIP**

**Kwik
Star**

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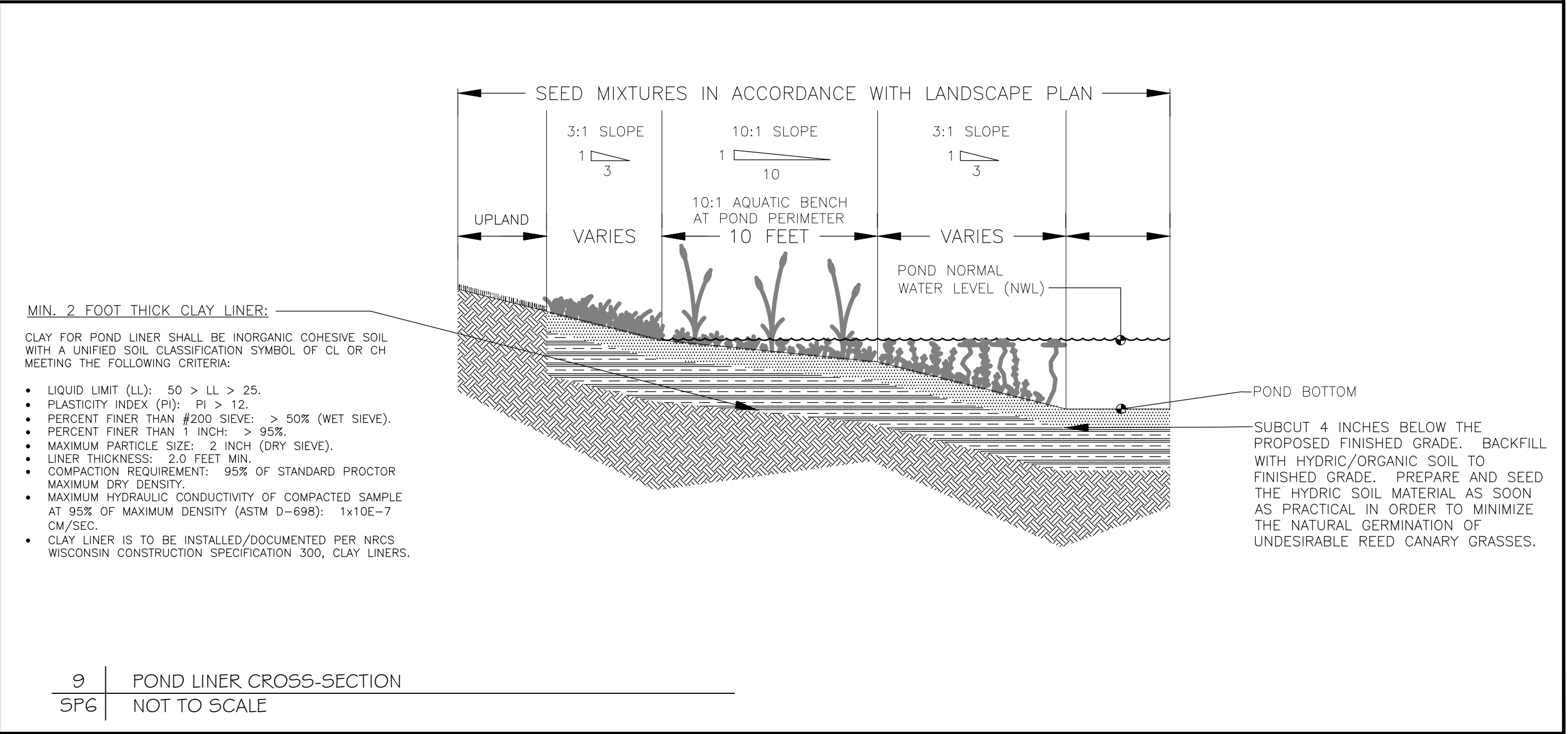
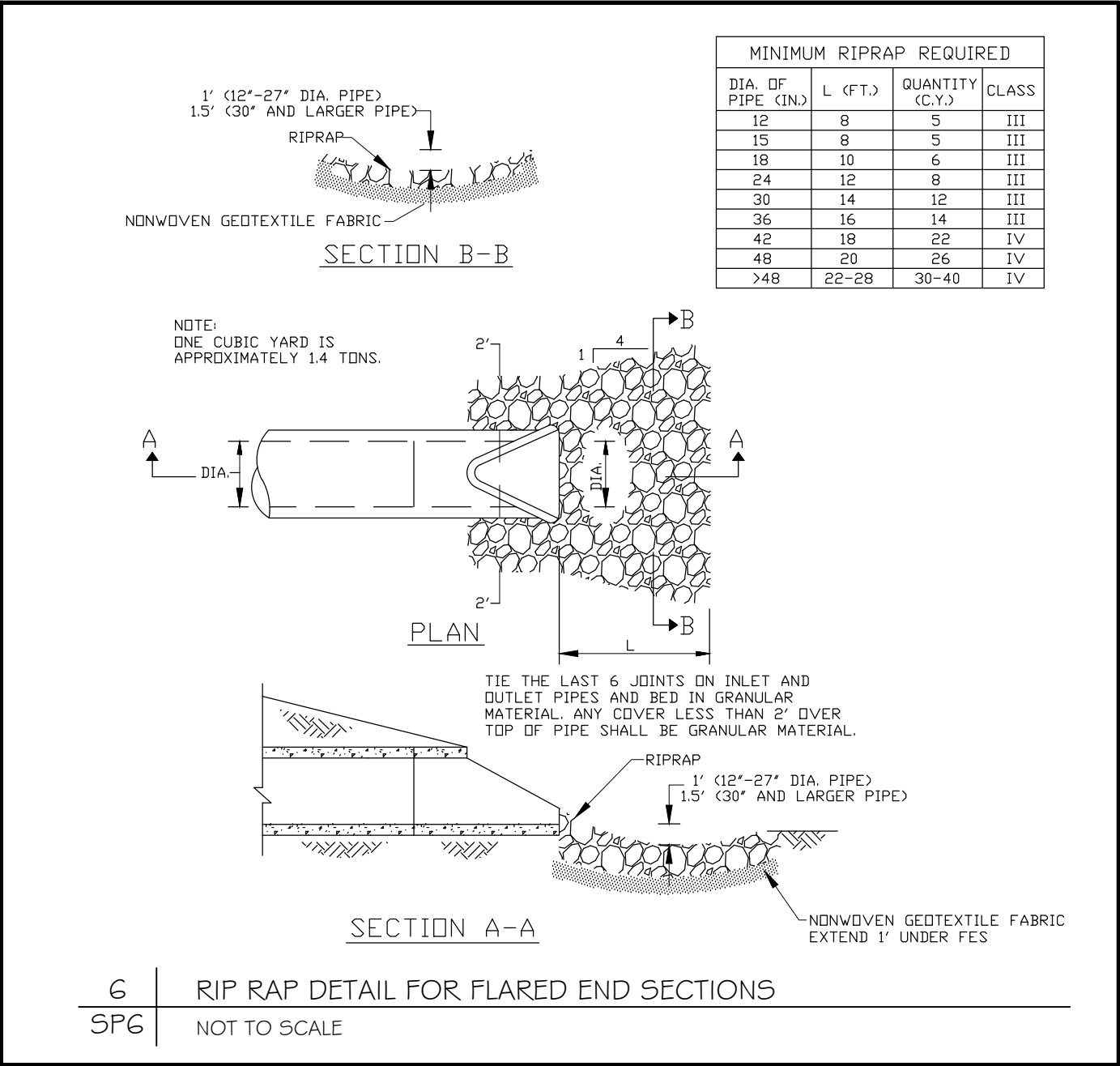
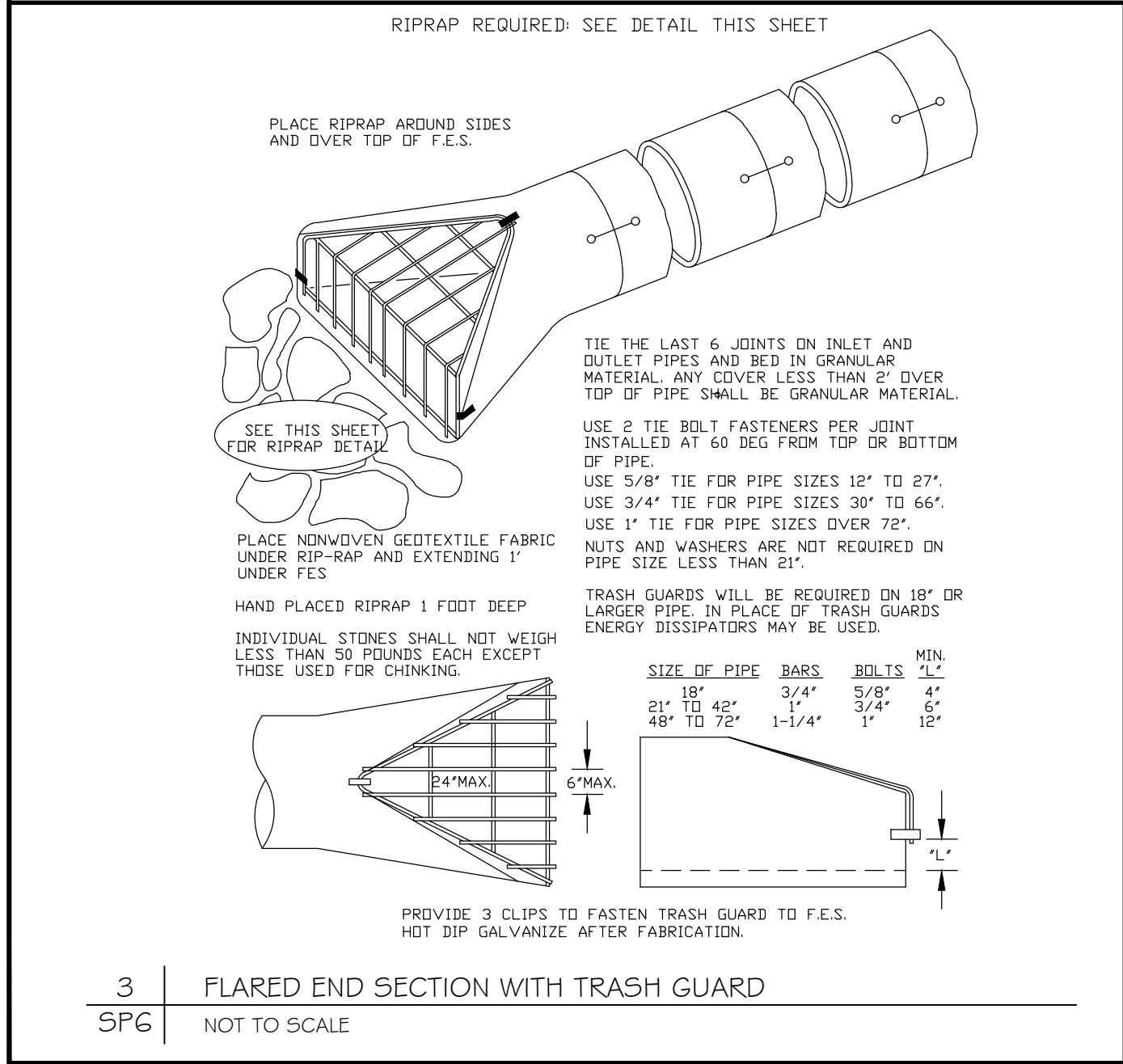
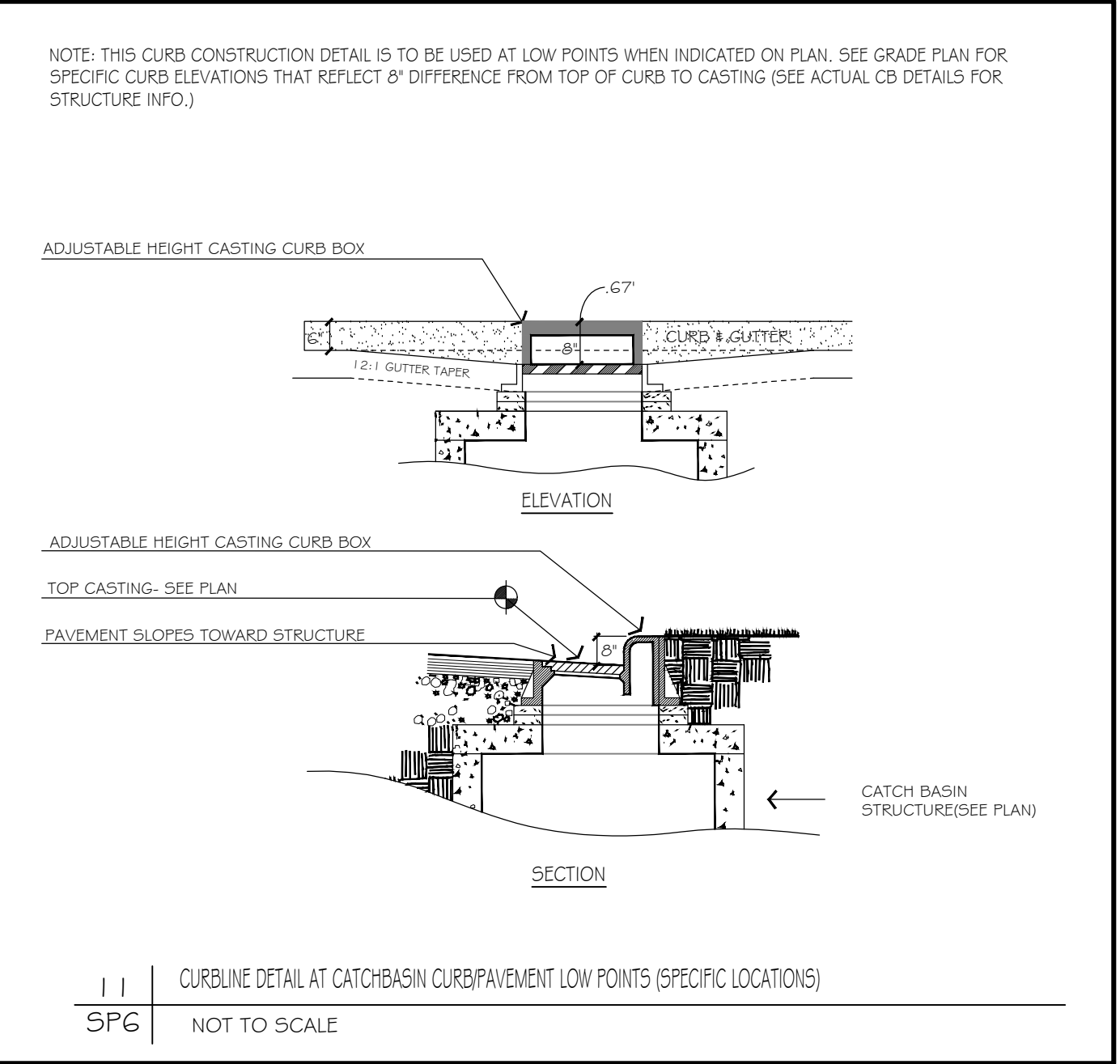
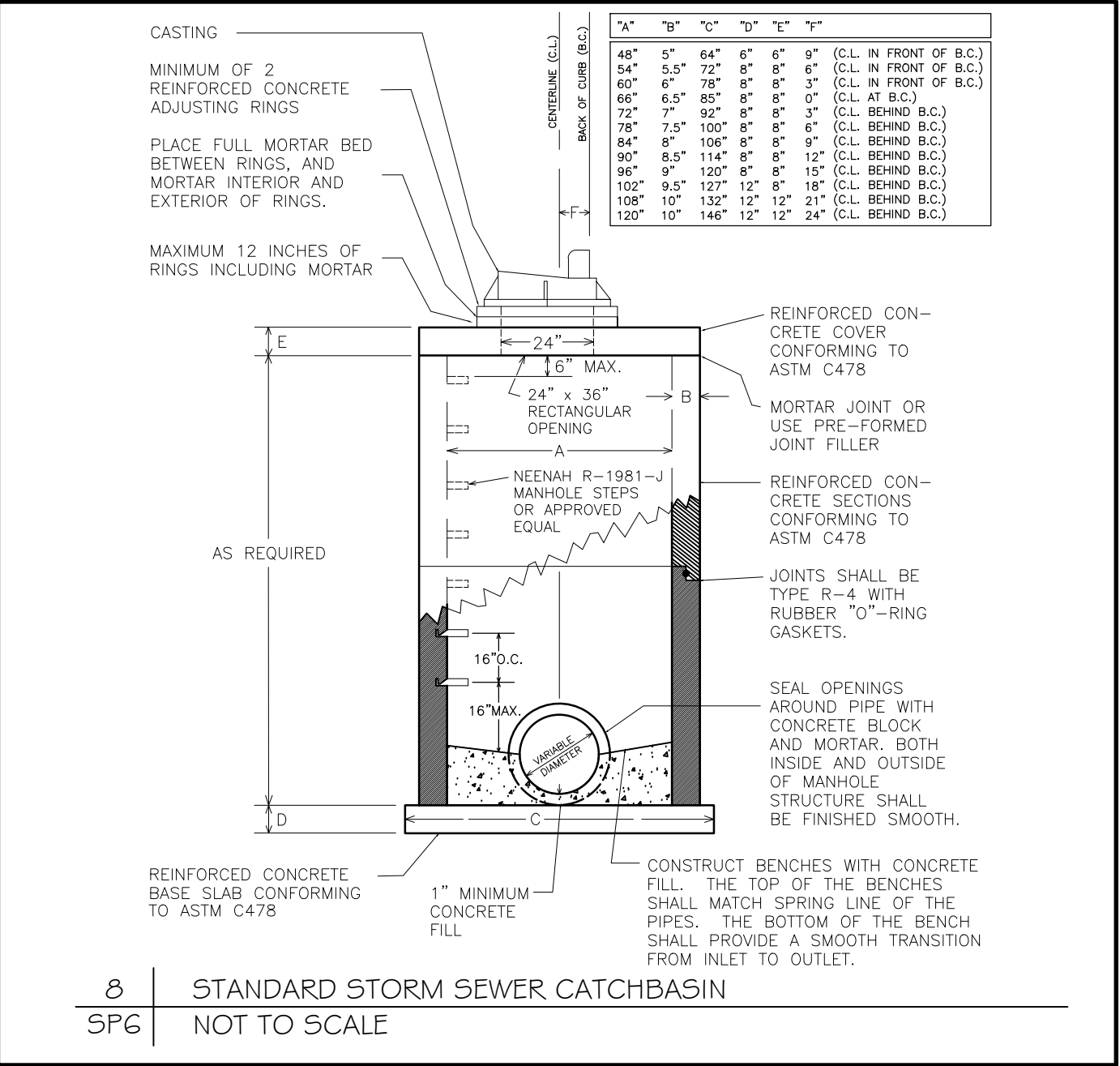
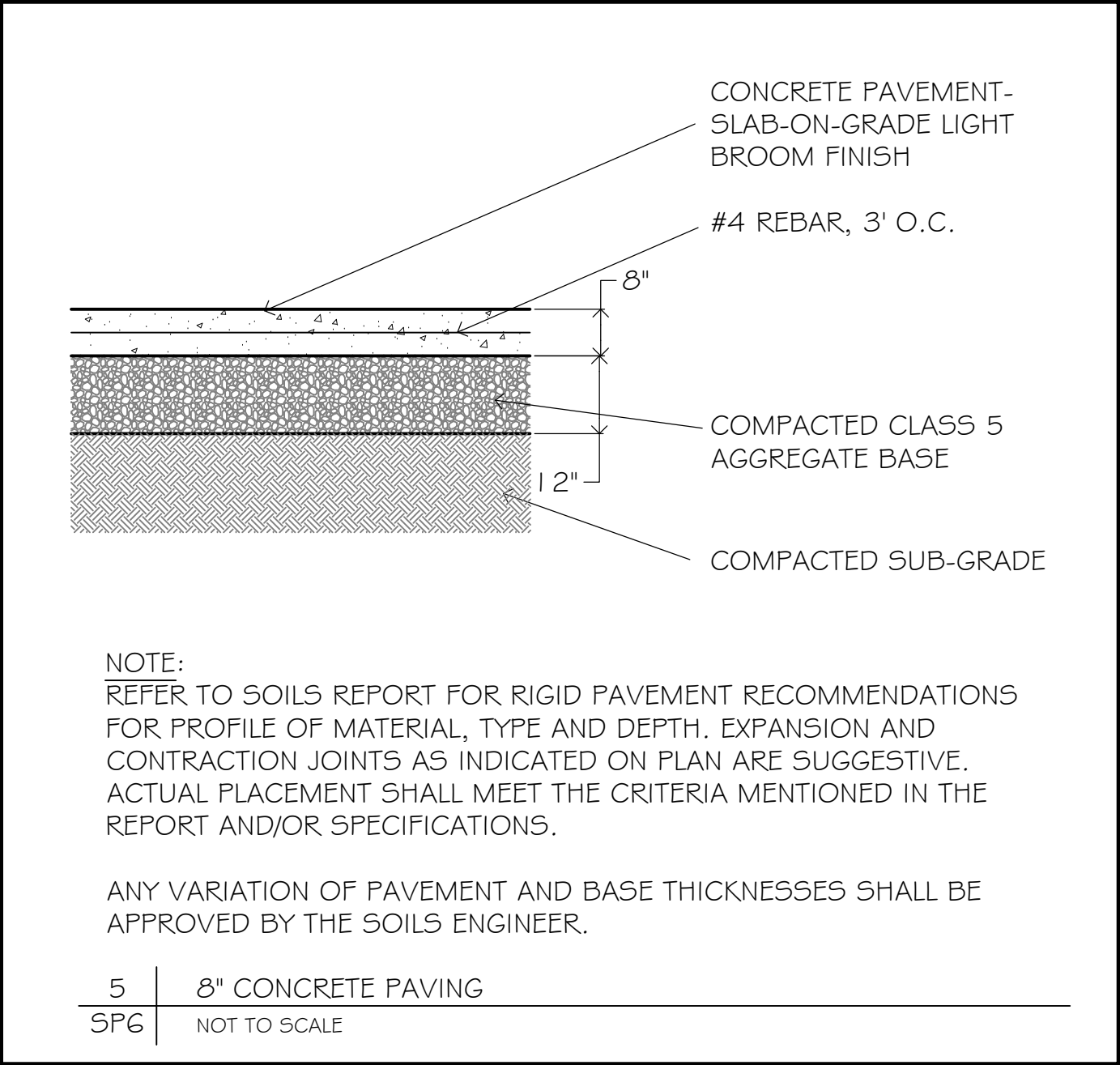
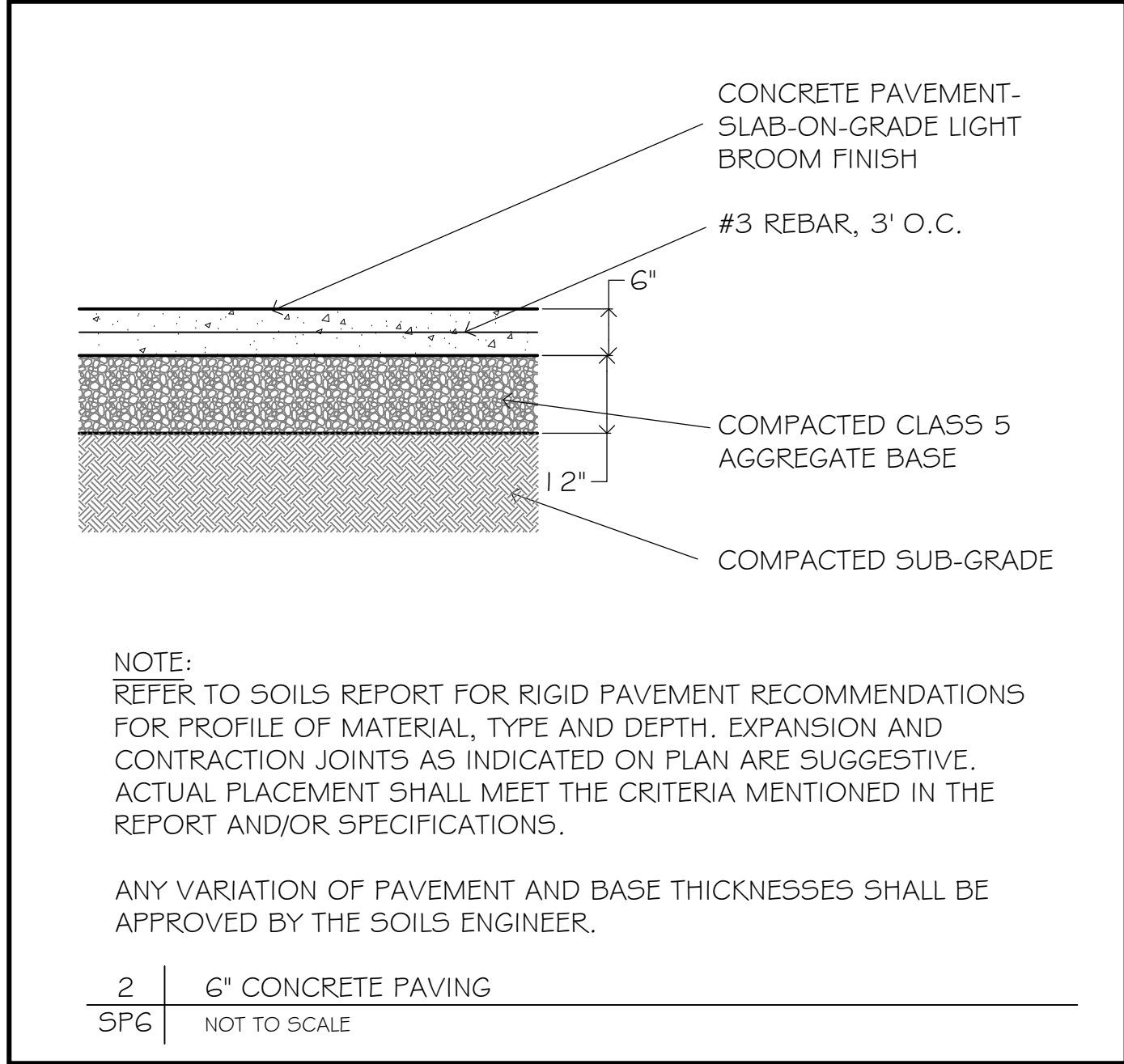
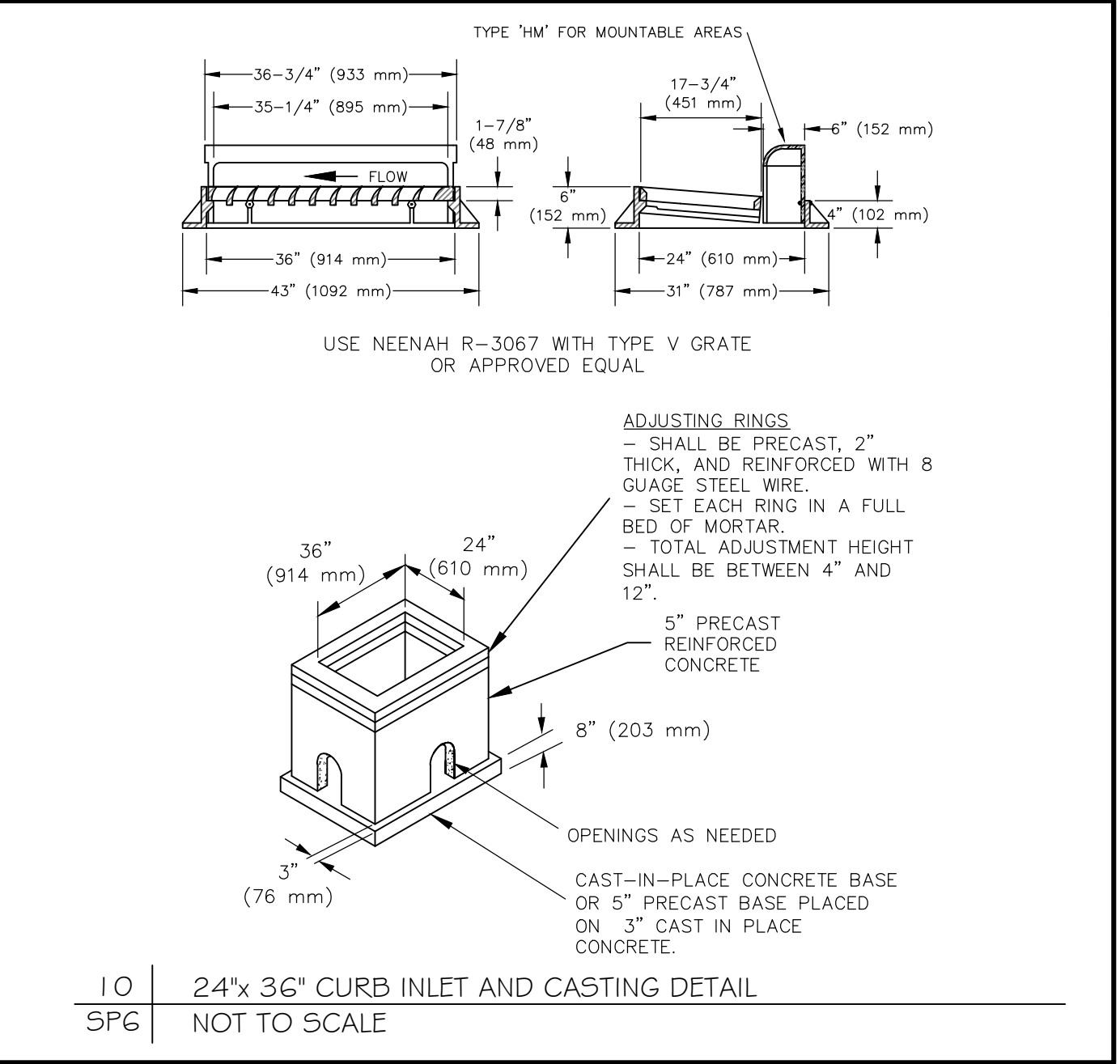
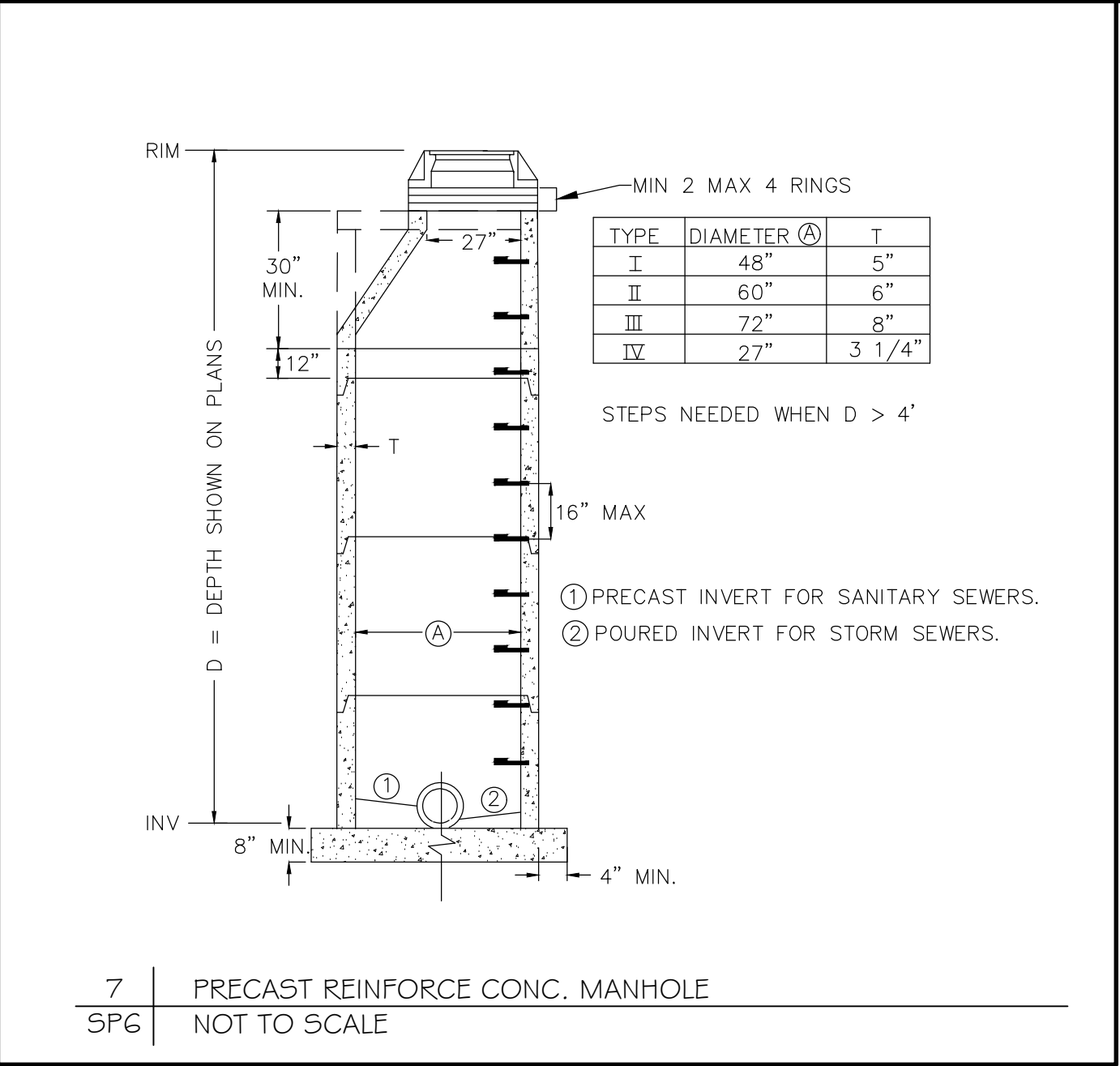
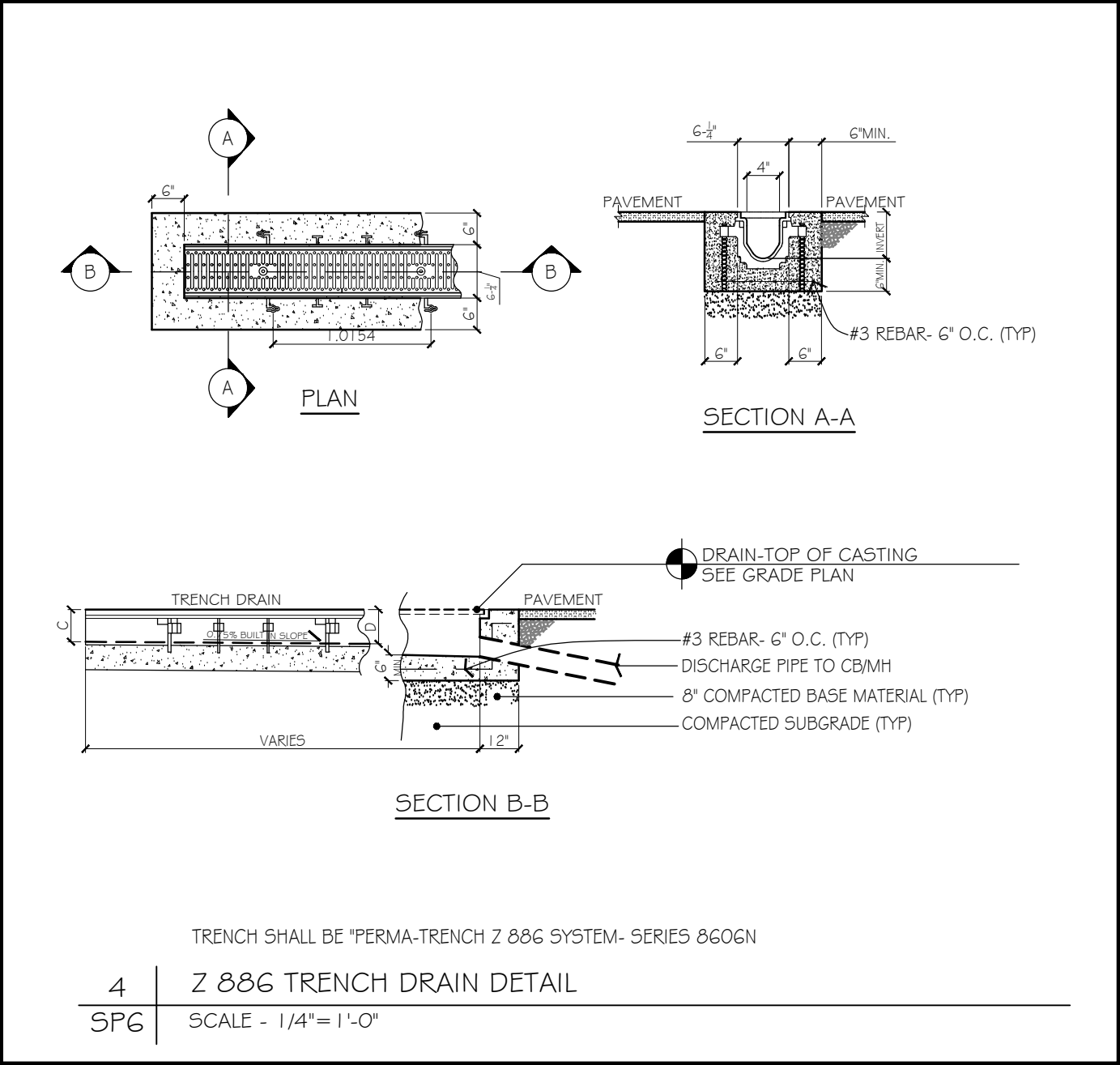
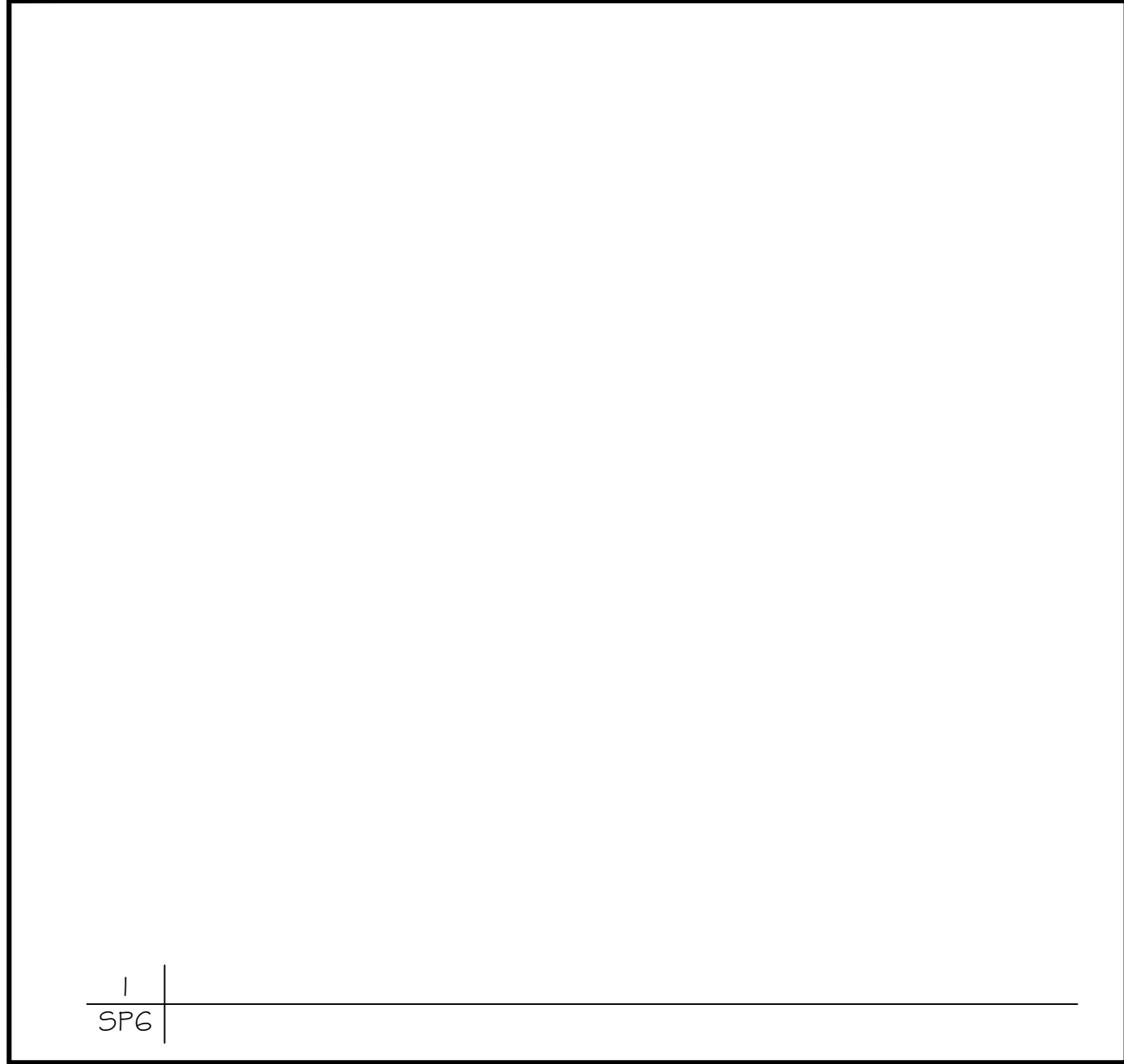
INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
9030 Harbor Lane North, STE 131
Plymouth, Minnesota 55447
763.383.8400
fax 763.383.8400



SITE PLAN DETAILS
CONVENIENCE STORE 1126
MORMON COULEE ROAD
LA CROSSE, WISCONSIN

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INSITES 19-039 TM S.L.



Kwik Trip

Kwik Star

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INSITES

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STATE OF WISCONSIN
LANDSCAPE ARCHITECT
ROBERT J. MUELLER
LASTS
PLYMOUTH, MN
07NOV2019

SITE PLAN DETAILS

CONVENIENCE STORE 1126

MORMON COULEE ROAD
LA CROSSE, WISCONSIN

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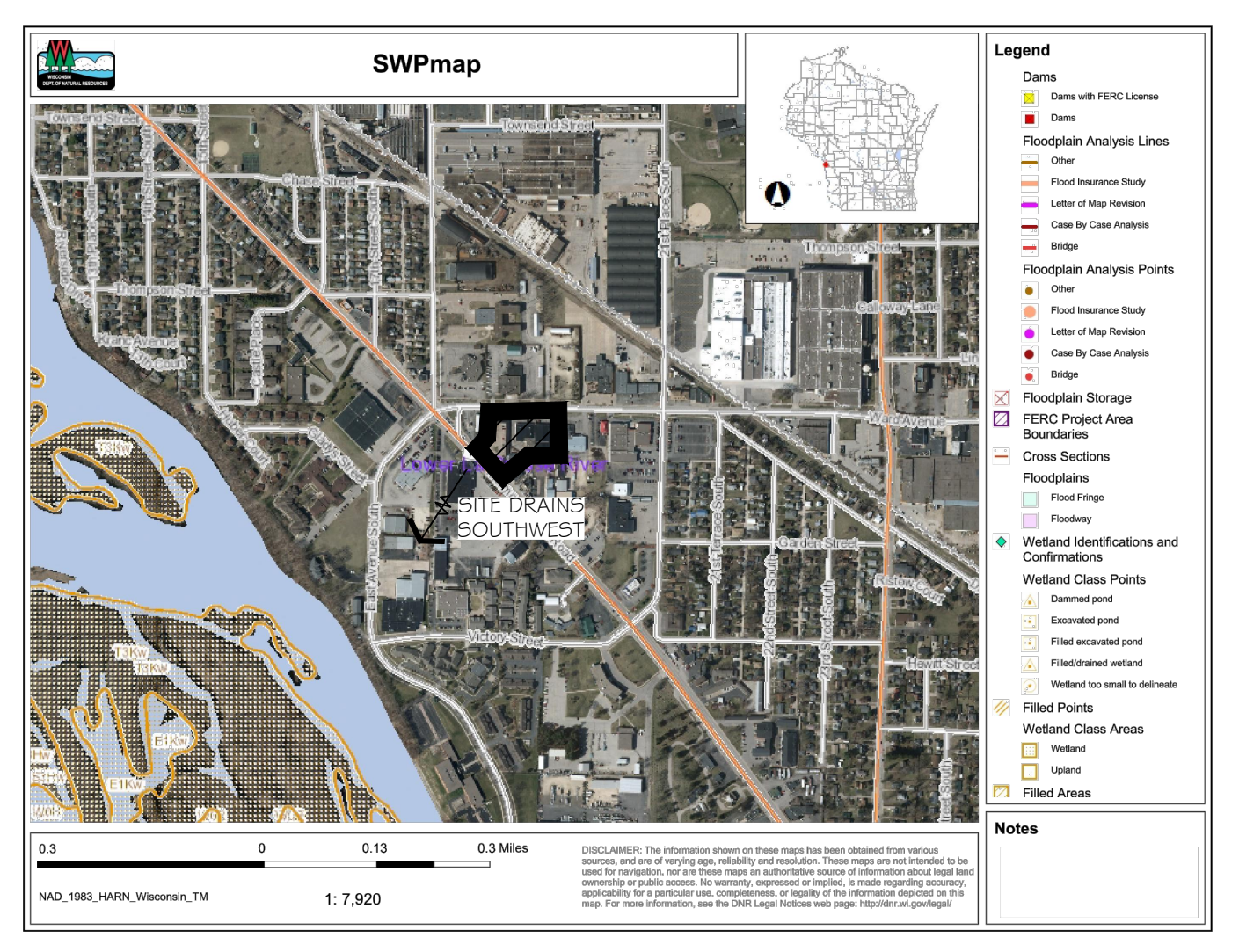
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SP6




Item	Quantity
Rock Construction Entrance	260 sq.yd.
Silt Sack	17(total structures to protect)
Erosion Control Blanket(basin)	1,407 sq.yd.
Rip Rap	12 cu. yd.
Silt Fence	1,425 l.f.
Rock Filtration dikes	-- l.f.
Bio Roll/erosion log	160 l.f.

Note: for maintenance purposes contractor shall all sufficient quantities for repair and replacement of erosion control devices throughout all phases of the projects construction.



811®

**Know what's below.
Call before you dig.**



NORTH
SCALE: 1" = 30'

0 15 30 45

PLANNING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1"=60'.

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INSITES 19-039 PM S.L.

SHEET **SWP1**

GENERAL STORMWATER POLLUTION PREVENTION:

Apply for and obtain all necessary permits for Construction Activity.

Stormwater Pollution Prevention Plan (SWPPP): The SWPPP includes this narrative, Plan Sheets SP3, SP3.1 and SP3.2, and the Stormwater Management Calculations. Keep a copy of the SWPPP, all changes to it, and inspections and maintenance records at the site during the construction. During the construction process the SWPPP will have to be amended for all changes performed by the contractor, the owner shall be aware of the amendments prior to changes made to the SWPPP. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPPP permit.

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 agencies; professional organization; or other entities with expertise in erosion prevention, sediment control, or permanent stormwater management.

Responsible Parties: The contractor must designate a person knowledgeable and experienced in the application of erosion prevention and sediment control BMPs who will oversee the implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction.

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

Owner contact:

CONTACT STEVE LOWE
KWIK TRIP, INC.
1626 OAK STREET
LACROSSE, WI 54602
608-793-5954

SITE INVESTIGATION, INSTALLATION, IMPLIMENTATION :

- 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 SWPPP.
- Install all temporary erosion and sediment control measures including silt fence, rock construction entrance(s), erosion control berms, rock filters, silt sacks, rock leathr berms, and sedimentation basins. Protect all receiving waters, catch basins, ditches, inlets etc. in and around the site. All protective and preventative measures must be in place and inspected prior to beginning site cleaning, grading, or other land-disturbing activity.
- Prior to beginning site cleaning and grading, protect all storm sewer inlets that receive runoff from disturbed areas. In order to prevent sediment from leaving the site and entering the downstream storm sewer system, seal all storm sewer inlets that are not needed for site drainage during construction. Protect all other storm sewer inlets by installing sediment control devices, such as silt sacks, or rocked filtration logs/weirs. Straw bales or fabric under the grates are not acceptable forms of inlet protection. Protect new storm sewer inlets as they are completed. Maintain storm sewer inlet protection in place until all sources with potential for discharging to the inlets are stabilized.
- Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the construction site When at all possible contractor shall designate only one access point for vehicles entering and exiting the site. The rock on the entrance will have to be inspected daily and replaced or rock supplemented by the contractor when over 50% of the voids in the rock are filled. A cleaning station should be made available to drivers and visibly signed as such. Provide shovels, brooms and/or hose with a wash out area so soils can be removed from vehicles on site.
- Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site susceptible to erosion. Schedule construction zones and note this on the SWPPP in order to expose the smallest practical area of soil at any given time. Utilize vegetation removed by on site grinding and mulching and using this material to protect the soil from erosion.
- Following initial soil disturbance or re-disturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water within 7 calendar days on all disturbed or graded areas. This requirement does not apply to those areas that are currently being used for material storage on a daily basis or for those areas on which grading, site building, or other construction activities are actively underway. Provide temporary cover on all stacked topsoil piles, and other areas of stockpiled excavated material in order to prevent soil erosion and rapid runoff during the construction period. Stockpiles can be mulched,covered with poly or fabric, and or seeded during prolonged exposure. Prolonged periods of open, bare earth without grass cover will not be permitted. Stabilize all disturbed greenspace areas with a minimum of 4" topsoil immediately after final subgrade completion. Seed and mulch, or sod and protect these areas within 48 hours after completion of final grading work (weather permitting). Stabilize all disturbed areas to be paved using early application of gravel base. Stabilize the normal wetted perimeter of any temporary or permanent drainage ditch that conveys water from the construction site, or diverts water around the construction site, within 200 lineal feet from the property edge, or within 200 feet from the point of discharge to any surface water. Stabilize temporary or permanent drainage ditches within 24 hours of connecting to a surface water. Protect outfalls minimum of 200feet down stream and to the side of the discharge point. Additional settling "pots" achieved by filter logs or filtered stick bales staked in the channel will dissipate the water energy. Provide pipe outlets with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
- Receiving Waters - It is the contractors responsibility to inspect the site discharge point as well as downstream to the receiving body of water(pond, lake, stream, etc.) on a regular basis including after each storm event and document if any differences or changes in normal in discharge and if material is leaving the construction site. If so it shall be documented and removed immediately.

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.

POLLUTION CONTROL:

- 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.
 - 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.
 - 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.
 - 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 Areas on-board their transports for disposal off-site. Concrete Contractor shall verify with Supplier in regards to provided Concrete Washout areas on and off-site, as necessary.
 - 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.
- 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.
- Hazardous Matenals: Properly dispose of all waste and unused building materials (including garbage debrns, 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.
- 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.
- Emergency spill station: Contractor shall locate and sign an emergency spill station that has necessary containment or cleanup devices for all workers to access.

EROSION CONTROL :

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

Contractor shall utilize coarsely ground wood and tree mulches to cover exposed soils. Mulches shall be stored on site to supplement and use in problem areas during all phases of the construction project.

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

Whenever possible contractor shall grade areas of soil to limit potential of erosion, to include tracking perpendicular to fall line of grades as well as diverting water flows from problematic areas on the site.

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.

SEDIMENT CONTROL:

Inlet Sediment Control Protection Devices:

The following area approved Inlet Sediment Control Devices:

a. Road Drain Top Slab Model RD 23 (fits rough opening for 2'x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for 27" inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4"x17-3/4" dimensions) manufactured by: WIMCO
799 Thess Drive
Shakopee, MN, 55379
Phone (952) 233-3055
or approved equal

b. Silt Sack manufactured by:
ACT ENVIRONMENTAL
2831 Cardwell Road
Richmond, VA, 23234
Phone (800) 448-3636
or approved equal

c. InfraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard frames are available to fit 24" to 30" diameter and 2'x3' openings.
Distrubuted by:
ROYAL ENTERPRISES AMERICA
30622 Forest Boulevard
Shakoy, MN, 55079
Phone (651) 462-2130
or approved equal

d. Ridge Bag Rock Log. Use rock logs only for curb inlets 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. Inflatable drain plugs by Interstate Products www.interstateproducts.com or approved equal

Riprap:

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 G45.3.7) 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.

Silt Fence:

Install and maintain per WDNR Conservation Practice Standard 1056.

Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. 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. Silt fence 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 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall meet the requirements of WIDOT Standard Specification 628 for preassembled silt fence, furnished in a continuous roll in order to avoid splices. Geotextile 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 color shall be international orange. In high traffic areas contractor shall reinforce silt fence with wire fencing and metal posts. extreme circumstances will require temporary concrete median sections to support material backing of stock piled soil or filled earth.

Install silt fence, 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 remaining 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 staked silt fence. Do not stock pile soil or material near catch basins or drainage ways.

Stone Tracking Pad (Temporary Rock Construction Entrance:

Install and maintain per WIDNR Conservation 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 1.5 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.

Temporary Sediment Basins:

In the construction process or if noted on the plan the contractor shall construct temporary sediment basin(s). 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 SWPPP plan.

Dewatering:

If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility (temporary sedimentation basin, gnt chamber, sand filter, upflow chamber, hydro-cyclone, swirl concentrator, dewatering bag or other appropriate 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 by Interstate Products www.interstateproducts.com

INSPECTIONS-MAINTENANCE-DAILY RECORD-AMEND THE SWPP PLAN

- 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 replace deteriorated, damaged, rotted, or missing erosion control devices. Document inspections 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.
- All inspections and maintenance activities must be recorded in writing DAILY in a detailed record(photos, sketches, etc., and kept with the SWPPP by the contractor.
- Contractor shall remove all soils and sediments tracked 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. Clean paved roadways by shoveling or wet-sweeping. 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.
- 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.
- 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 greenspace). Repair any rilling, gully formation, or washouts. After final establishment of permanent stabilization, remove all temporary synthetic, structural, and non-biodegradable erosion and sediment control devices and any accumulated sediments. Dispose-of off site. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.
- Contractor shall clean sedimentation basins, storm sewer catch basins, 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 depth of sediment collected in the basin reaches 1/2 of the storage volume. Drainage and removal must be completed within 72 hours, or as soon as field conditions allow access.
- Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating. Remove sediment immediately ensuring subsoils are not compacted by machinery.
- 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.
- Contractor shall reinforce erosion control facilities in areas where concentrated flows occur (such as swales, ditches, and areas in front of culverts and catch basins) 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 (1.3 lbs) per lineal foot, with a minimum length of 762 mm (30 inches) plus burial depth. Space posts for the 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.

GENERAL SOIL STABILIZATION:

(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, restaking of sod where applicable, proper watering and mulch 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 remulch 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 G30.3.3.5. 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 diskling 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:

Spring- from April 1 through May 15.

Fall- from August 15 to September 20.

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 4.44 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.

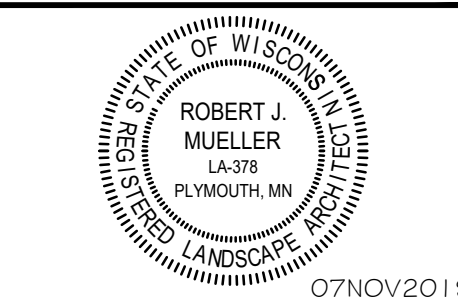
NOTE: THE PROJECT'S LANDSCAPE PLAN IS PART OF THE SWPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWNER AND DOCUMENTED AS PART OF THE SWPP

**Kwik
TRIP**

**Kwik
Star**

KWIK TRIP, Inc.
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LACROSSE, WI 54602-2107
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FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth Minnesota 55447
763.383.8400
fax 763.383.8400



EROSION CONTROL NOTES

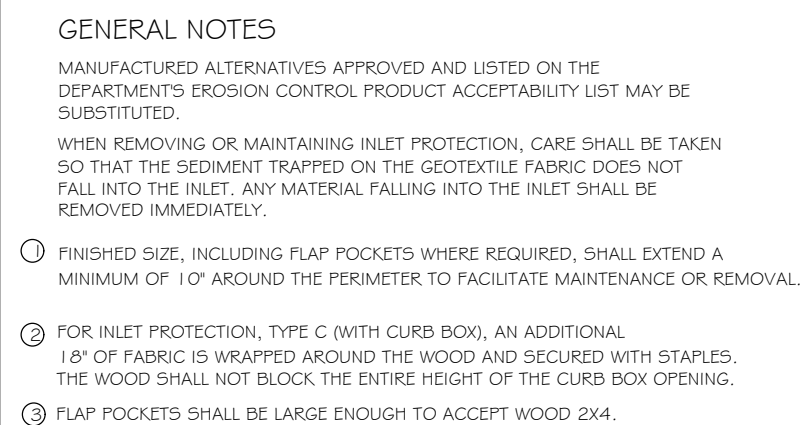
CONVENIENCE STORE 1126

**MORMON COULEE ROAD
LA CROSSE, WISCONSIN**

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PROJ. NO.		19-1126
DATE		07NOV19
SHEET		SWP2

NOTES 19-039 REV 5.1

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



TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND-HELD HOOPS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

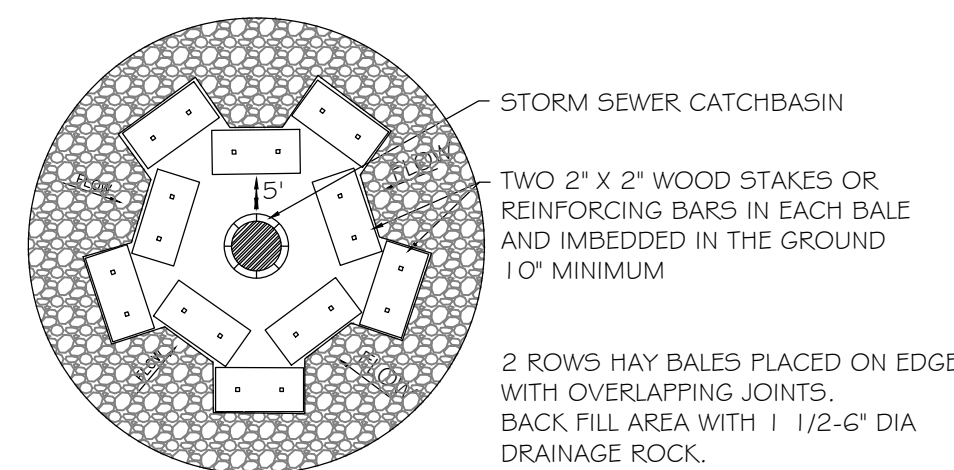
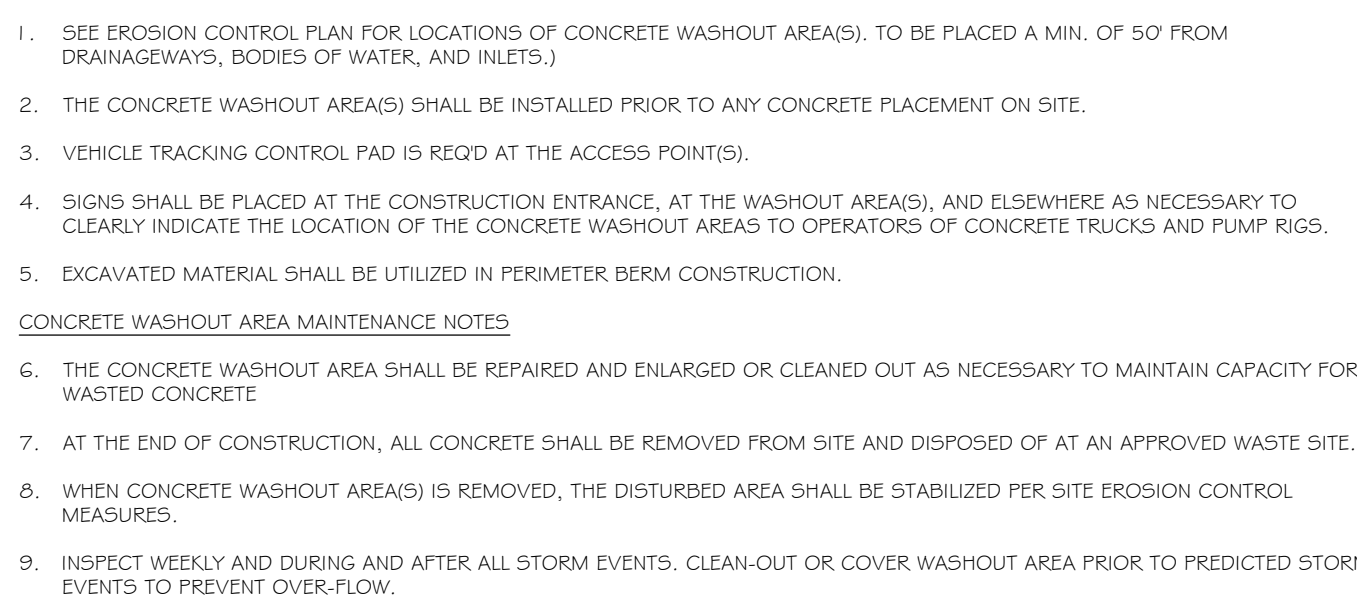
TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM-SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERTFLOW BAGS, OF 3", WHERE NECESSARY THE CONTRACTOR SHALL TIE THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D



SILT FENCE TIE BACK

(WHEN ADDITIONAL SUPPORT REQUIRED)

DETAIL

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② TRENCH SHALL BE A MINIMUM OF 4' WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FILL MATERIAL TO FIT TRENCH AND BACKFILL A COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" X 1" OF OAK OR HICKORY.
- ④ TRENCH FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SPLIT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE AT LEAST 180 DEGREES, BY HOOD THE END OF EACH SPLIT FENCE LENGTH.

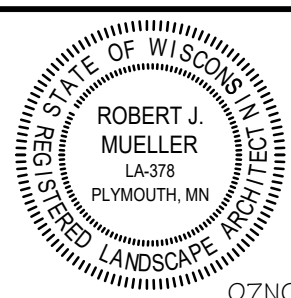
This drawing based on Wisconsin
Department of Transportation
Standard Detail Drawing 8 E 9-6

SILT FENCE



KWIK TRIP, Inc.
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fax 763.383.8440



07NOV2015

EROSION CONTROL DETAILS

CONVENIENCE STORE 1126

**MORMON COULEE ROAD
LA CROSSE, WISCONSIN**

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SWP3

NSITES 19-039 PM S.L.

CLEAN MULCH (1½" WASHED CRUSHED LIMESTONE)

6-12"

18"

DIRECTION OF SURFACE FLOW

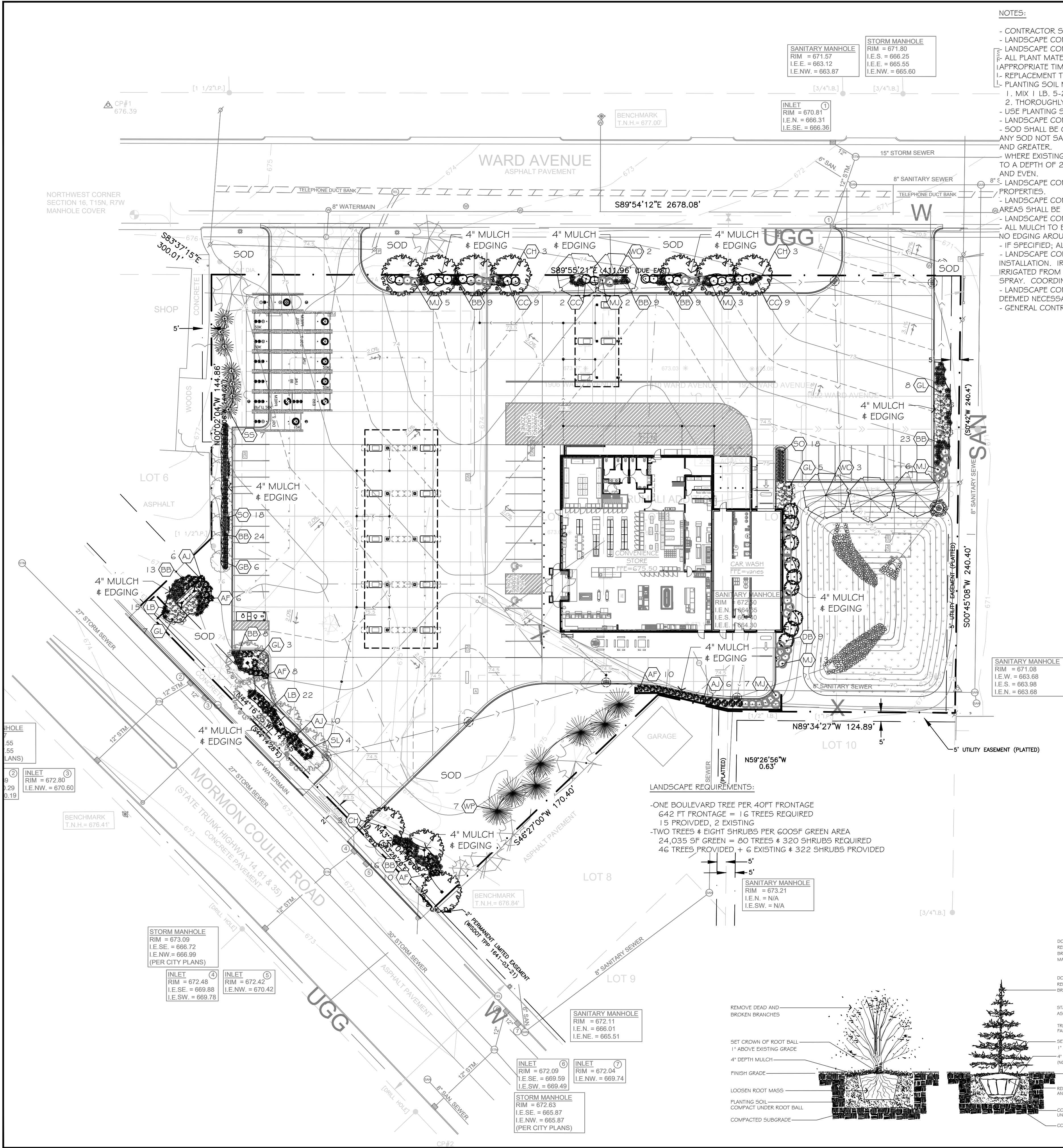
TYPE IV GEOTEXTILE FABRIC

ANCHORED IN 6" X 6" TRENCH WITH 1/4" GAUGE METAL STAPLES AT 4' INTERVALS

STAPLE DOWNSTREAM SIDE OF FABRIC AT 2' INTERVALS

















The diagram illustrates a cross-section of a rock pile structure. The pile is a trapezoid with a top width of 6'-12" and a height of 18". The material is labeled as "CLEAN ROCK MULCH (1 1/2" WAHED CRUSHED LIMESTONE)". A "DIRECTION OF SURFACE FLOW" arrow points from left to right. A "TYPE IV GEOTEXTILE FABRIC" is shown anchored in a "6' X 6' TRENCH WITH 6", 1 1/2 GAUGE METAL STAPLES AT 4' INTERVALS". A "SOIL LOG W/ 24" WOOD STAKED 2' O.C. ALONG ENTIRE LENGTH OF LOG." is positioned vertically within the rock pile. A "STAPLE DOWNSTREAM SIDE OF FABRIC AT 2' INTERVALS" is indicated. A dimension line shows a distance of "≥ 1.5'" from the upstream face to the fabric.

NSITES 19-039 PM S.L.



NOTES:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
- LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY EFFECT HIS WORK.
- LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS AT SITE AND COMPLETE HIS WORK PER OWNERS CONSTRUCTION SCHEDULE.
- ALL PLANT MATERIALS SHALL BE GUARANTEED ONE (1) FULL YEAR UPON TOTAL COMPLETION AND ACCEPTANCE BY OWNER, WITH ONE TIME REPLACEMENT AT APPROPRIATE TIME OR UPON REQUEST OF OWNER.
- REPLACEMENT TOPSOIL SHALL BE CLEAN, FREE OF STONES, WEEDS, AND OTHER UNDESIRABLE DEBRIS.
- PLANTING SOIL MIX (INCIDENTAL COST ITEM)
 1. MIX 1 LB. 5-20-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL
 2. THOROUGHLY MIX 1-PART SAND AND 1-PART PEAT MOSS WITH 5-PARTS FERTILIZER AND TOP SOIL.
- USE PLANTING SOIL AT ALL LOCATIONS PER DETAILS THIS SHEET.
- LANDSCAPE CONTRACTOR SHALL VERIFY TOPSOIL DEPTH AND NOTIFY OWNER OF ANY DEFICIENCY.
- SOD SHALL BE CULTURED WITH PREDOMINATELY KENTUCKY BLUEGRASS SEED OF RECENT DISEASE RESISTANT INTRODUCTIONS. NO GUARANTEE ON SOD EXCEPT ANY SOD NOT SATISFACTORY AT TIME OF COMPLETION INSPECTION SHALL BE PROMPTLY REPLACED PRIOR TO COMPLETION OF JOB. STAKE SOD ON SLOPES 3:1 AND GREATER.
- WHERE EXISTING CONCRETE/ ASPHALT AREAS ARE TO BE REPLACED WITH LANDSCAPING, PROVISIONS SHOULD BE TAKEN TO COORDINATE EXCAVATION OF SUBSOIL TO A DEPTH OF 2' WITH GRADING CONTRACTOR. REPLACE WITH COMPACTED TOPSOIL. ALL AREAS TO BE LANDSCAPED AND SODDED SHALL BE GRADED SMOOTH AND EVEN.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION INCLUDING ALL R.O.W. AND ADJACENT PROPERTIES.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BLANKET ON ALL SEEDED AREAS THAT ARE SLOPED. MULCH APPLICATION FOR ALL OTHER SEEDED AREAS SHALL BE EITHER HYDROMULCH OR DISKED STRAW DEPENDING ON SEED TYPE, APPLICATION, AND OWNER REQUEST.
- LANDSCAPE CONTRACTOR TO INSTALL 'VALLEY VIEW', 'BLACK DIAMOND' EDGING AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
- ALL MULCH TO BE FINELY SHREDDED HARDWOOD ORGANIC BARK MULCH, NO DYED MULCHES, INSTALL 4" DEPTH. NO FILTER FABRIC BENEATH ORGANIC MULCHES. NO EDGING AROUND ALL TREES OUTSIDE SHRUB BEDS.
- IF SPECIFIED, ALL GRAVEL MULCH SHALL BE 1 1/4" DIA. WASHED 'RIVER ROCK'. INSTALL 4" DEPTH WITH APPROVED WEED FABRIC BARRIER IF INDICATED PLAN.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SYSTEM INSTALLATION PER SHEET 11. DESIGN SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. IRRIGATION DESIGN SHOULD ENCOMPASS ALL LANDSCAPE AREAS WITH SOD AND/OR PLANTINGS, FROM CURB TO CURB. R.O.W. SHOULD BE IRRIGATED FROM SPRINKLER HEADS LOCATED WITHIN PROPERTY BOUNDARY. CARE SHOULD BE TAKEN IN VICINITY OF ALL WALKS AND DRIVES TO MINIMIZE OVER SPRAY. COORDINATE INSTALLATION OF ALL PVC SLEEVE UNDER DRIVE AREAS WITH GENERAL CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL CLEAN ALL PAVEMENT AREAS AFTER ALL LANDSCAPE INSTALLATION IS COMPLETE AND ACCEPTED BY OWNER AND DAILY AS DEEMED NECESSARY BY THE CITY.
- GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.

PLANT MATERIAL						HEIGHT' X WIDTH'
QUANTITY		SIZE	ROOT TYPE	COMMON NAME BOTANICAL NAME		
OVERSTORY TREES						
	CH	10'	2.5" CAL.	B&B	COMMON HACKBERRY <i>Celtis occidentalis</i>	60' x 50'
	WO	5	2.5" CAL.	B&B	WHITE OAK <i>Quercus alba</i>	50' x 50'
	DB	9	1.5" CAL.	B&B	DAKOTA PINNACLE BIRCH <i>Betula platyphylla 'Tango'</i>	30' x 8'
UNDERSTORY TREES						
	GB	8	2.5" CAL.	B&B	DAWYCK GOLD BEECH <i>Fagus sylvatica 'Dawyck Gold'</i>	45' x 15'
EVERGREEN TREES						
	WP	7	10' HT	B&B	WHITE PINE <i>Pinus strobus</i>	65' x 35'
	SS	7	6' HT	pot	SWISS STONE ALGONQUIN PILLAR <i>Pinus cembra 'Algonquin Pillar'</i>	25' x 10'
SHRUBS						
	CC	20	#3 CONT.	pot	CARDINAL CANDY <i>Viburnum dilatatum 'Henneke'</i>	5' x 5'
	AJ	22	#3 CONT.	pot	AMBER JUBILEE NINEBARK <i>Physocarpus opulifolius 'Jefani'</i>	5' x 4'
	MJ	36	#3 CONT.	pot	MANEY JUNIPER <i>Juniperus chinensis 'Maney'</i>	4' x 5'
	AF	27	#3 CONT.	pot	ARCTIC FIRE DOGWOOD <i>Cornus stolonifera 'Farrow'</i>	4 X 4'
	GL	23	#3 CONT.	pot	GRO-LOW FRAGRANT SUMAC <i>Rhus aromatica 'Gro-Low'</i>	2' x 7'
PERENNIALS						
	SO	36	#1 CONT.	pot	STELLA DE ORO DAYLILY <i>Hemerocallis 'Stella de Oro'</i>	2' x 3'
GRASSES						
	BB	121	#1 CONT.	pot	BIG BLUESTEM <i>Andropogon gerardi</i>	5' x 6'
	LB	37	#1 CONT.	pot	LITTLE BLUE STEM <i>Schizachyrium scoparium</i>	4' x 3'
SEED SPEC: FALL SEEDING IS PREFERABLE (AUG. 20 TO OCT. 20). SPRING SEEDING SHOULD BE BETWEEN MARCH 15- MAY 15. NO SUMMER SEEDING.						
	----	SY	PRAIRIE NURSERY , DETENTION BASIN, WET PRAIRIE SEED MIX (MIX #50062 OR APPROVED EQUAL). PROVIDE EROSION CONTROL BLANKET ON SIDE SLOPES.			
	----	SY	PRAIRIE NURSERY , LAND RESTORATION MIX FOR MEDIUM SOILS (MIX #50047 OR APPROVED EQUAL). PROVIDE EROSION CONTROL BLANKET ON SIDE SLOPES.			
EDGING ---- LF						
MULCH ---- CY						
SOD ---- SY						

LANDSCAPE REQUIREMENTS:

- ONE BOULEVARD TREE PER 40FT FRONTAGE
642 FT FRONTAGE = 16 TREES REQUIRED
15 PROVIDED, 2 EXISTING
- TWO TREES & EIGHT SHRUBS PER 600SF GREEN AREA
24,035 SF GREEN = 80 TREES & 320 SHRUBS REQUIRED
46 TREES PROVIDED + 6 EXISTING & 322 SHRUBS PROVIDED

SANITARY MANHOLE
RIM = 673.21
I.E.N. = N/A
I.E.SW. = N/A

SANITARY MANHOLE
RIM = 672.11
I.E.N. = 666.01
I.E.SW. = 665.51

SANITARY MANHOLE
RIM = 672.05
I.E.SE. = 668.72
I.E.NW. = 668.99
(PER CITY PLANS)

STORM MANHOLE
RIM = 673.09
I.E.SE. = 668.72
I.E.NW. = 668.99
(PER CITY PLANS)

INLET
RIM = 672.48
I.E.SE. = 669.88
I.E.NW. = 669.78

INLET
RIM = 672.42
I.E.NW. = 670.42

INLET
RIM = 672.05
I.E.SE. = 668.72
I.E.NW. = 668.99
(PER CITY PLANS)

STORM MANHOLE
RIM = 672.63
I.E.SE. = 665.87
I.E.NW. = 665.97
(PER CITY PLANS)

INLET
RIM = 672.11
I.E.N. = 666.01
I.E.SW. = 665.51

INLET
RIM = 672.05
I.E.SE. = 668.72
I.E.NW. = 668.99
(PER CITY PLANS)

STORM MANHOLE
RIM = 672.63
I.E.SE. = 665.87
I.E.NW. = 665.97
(PER CITY PLANS)

INLET
RIM = 672.11
I.E.N. = 666.01
I.E.SW. = 665.51

INLET
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(PER CITY PLANS)

STORM MANHOLE
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(PER CITY PLANS)

STORM MANHOLE
RIM = 672.

The figure shows a close-up of the UGG-UGG interface. It features the UGG logo prominently in the center. To the right of the logo, there are several small icons representing different types of user input or actions. Below the logo, there is a section labeled "UGG-UGG" which contains a series of small, repeating icons that likely represent a sequence of commands or data points.

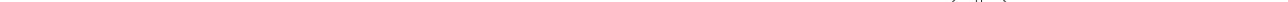
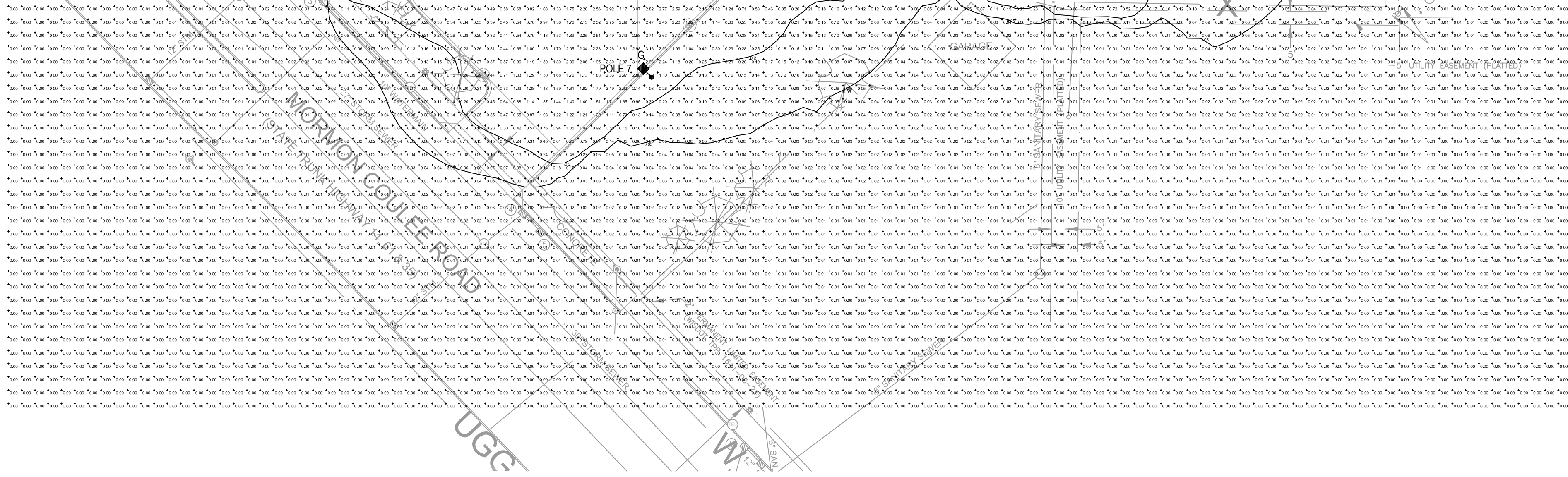
[illegible]

The diagram illustrates a genetic code or protein structure. It features a central point labeled "BA". A series of amino acid abbreviations are arranged in a circular pattern around this center: Val, Ile, Thr, Ser, Ala, Gly, Asp, Glu, Lys, Arg, Phe, Tyr, Trp, Met, Cys, and Leu. The sequence continues with Pro. Various other labels are present, including "UCC", "UGG", and "C". The diagram also shows some numerical values and symbols like "x", "y", and "z".

Figure 1: A 3D visualization of the POLE 10 and POLE 3 sensor locations. The top part shows a 3D coordinate system with axes labeled 'x', 'y', and 'z'. The bottom part shows a 2D map of the sensor locations on a grid. The map is labeled 'POLE 10' and 'POLE 3'. The map shows a grid of points with some points highlighted in red and others in blue. The map also shows a network of lines connecting the points, representing the sensor network.

[illegible][illegible][illegible]

Figure 10: A 1000-bit long random number stream. The stream is displayed as a sequence of 1000 bits, with a large '6' and a large '0' visible in the middle. The stream is generated by a random number generator.

[illegible][illegible]

PHOTOMETRIC SITE PLAN

SCALE: 1 = 5000



SCALE: 1" = 30'-0"

GR&E

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414 / 259 1500

414 / 259 0037 fax

PHOTOMETRIC SITE PLAN
CONVENIENCE STORE 111

MORMON COULEE ROAD
LA CROSSE, WISCONSIN

DRAWN BY	AMM
SCALE	GRAPHIC
PROJ. NO.	19-112
DATE	07NOV1
SHEET	E1

E1