

PREPARED FOR:  
  
 CAR WASH  
 PRO Designers  
 600 Business Highway  
 Park Ridge, IL 60068  
 PH: 847/698-4400  
 FAX: 847/698-9401

DESIGNED BY: M.S.L.  
 DRAWN BY: K.S.J.  
 DATE: 08/08/2023  
 PROJECT #: 1621

NO.	DESCRIPTION	DATE
1	V.L.L. PRELIM. REV. #1	04/14/23
2	V.L.L. PRELIM. REV. #2	04/14/23

FOR  
**CAR WASH FACILITY**  
 1492 W. OGDEN AVE.  
 NAPERVILLE, IL 60540

**OWNER'S CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Project or Site: Wolf Car Wash  
 Owner Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

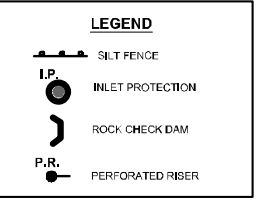
**CONTRACTOR'S CERTIFICATION**

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

Project or Site: Wolf Car Wash  
 Operator Name: \_\_\_\_\_  
 Company Address: \_\_\_\_\_  
 Company Phone: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

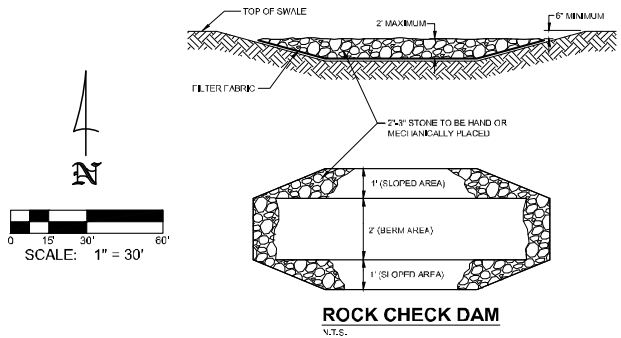
**STORMWATER POLLUTION PREVENTION PLAN**

SHEET NUMBER  
**C-11**



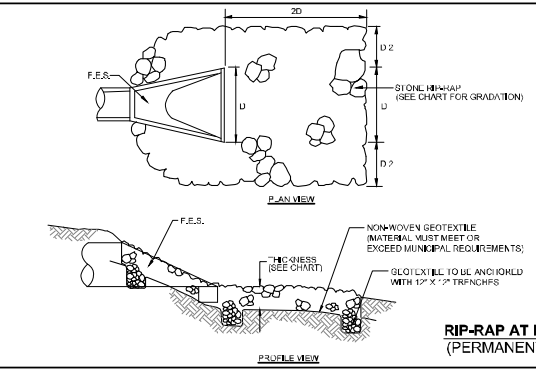
**NOTE**

THIS STORM WATER POLLUTION PREVENTION PLAN (SWPP) & DETAIL SHEETS SHALL REMAIN "ON-SITE" DURING CONSTRUCTION IN AN AREA ACCESSIBLE BY SWPP INSPECTORS.



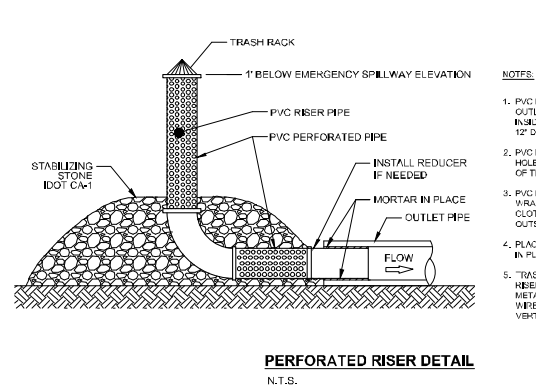
**SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES**

- Soil erosion and sediment control measures shall be in accordance with NPDES general permit No. ILR10 and the Illinois Urban Manual. Any soil erosion or sediment control measures, in addition to those outlined in these plans and which are deemed necessary by the owner, engineer, architect or City engineer, shall be implemented immediately by the contractor.
- As per NPDES Permit No. ILR10:
  - The owner will be responsible for designating individuals responsible for conducting inspections for unstabilized areas, structural control measures and areas where vehicles enter or exit the site, once every 7 days or after every storm resulting in 0.5 inches of rain or equivalent snowfall. Reports of these inspections will be kept onsite as part of the Stormwater Pollution Prevention Plan (SWPPP) and kept on file for 3 years after the project is complete.
  - Modifications to the site and/or the SWPPP, based on the inspection report shall be made within 7 days following the inspection.
  - Amendments to the soil erosion and sediment control (SESC) plan should be made whenever there is a change in design, construction, operation or maintenance that has a significant change on the discharge to Waters of the State, or in order to achieve control pollutants in stormwater discharge associated with the construction activity.
- A copy of SWPPP will be kept onsite with all supplemental material as required by NPDES general permit No. ILR10.
- Streets adjacent to the site shall be kept free of dirt, mud and debris.
- No sediment shall be allowed to enter the existing storm sewer system.
- In accordance with these construction plans, erosion control measures shall be installed and maintained around storm sewer structures, in swale areas or along property lines until vegetation is established and/or construction is complete.
- Stockpiles shall be located to avoid erosion of said stockpile onto offsite areas, i.e., the stockpile shall be located so that an onsite drainage swale is between the stockpile and the downstream offsite property. If a stockpile is to remain in place for more than 21 days, it is required that the stockpile be seeded so as to minimize soil erosion by both wind and water, by the 14th day after activity on the stockpile has ceased.
- Areas of the site where construction activity is temporarily or permanently ceased shall be stabilized within 14 days.
- When stormwater is to be routed through existing or proposed detention basins & systems in order to allow settlement of silt and debris, the basins are to be constructed upon commencement of the project. Basins will be properly over-excavated so as to provide sufficient volume for debris and sediment. If the drainage is into an existing basin, the upstream project shall be properly protected so as to minimize siltation of the downstream basin.
- All storm sewer, catch basins, sumps and/or detention basins provided within this project are to be cleaned at the end of construction of the project and prior to final acceptance. Cleaning may be required during the course of the construction of the project if it is determined that the silt and debris traps are not properly functioning and their performance is impaired.
- A stabilized construction entrance for mud and dust control shall be established at the onset of construction activity and shall be maintained throughout the course of the project. The construction entrance shall be located generally where shown on the plan, and at any other points where construction traffic frequently leaves the public roadway to enter the site.
- Unless soil erosion control items are specifically referred to as bid items (such as topsoil respread, seeding, etc.), they are to be considered as incidental to the cost of the contract.
- Upon completion of topsoil respread operations, all disturbed areas shall be seeded, sodded, or landscaped as noted on the plan.
- Seeding and mulching shall be in accordance with sections 250 and 251 of the I.D.O.T. standard specifications. Seed mixture shall be class 1.
- Sodding shall be in accordance with section 252 of the I.D.O.T. standard specifications.
- All disturbed ground within the existing I.D.O.T. county, and municipal right-of-way shall be restored within 4" of topsoil and sodding.
- The contractor shall be responsible for securing the "Notice of Intent" (NOI) for submittal to the Illinois Environmental Protection Agency (EPA) along with the Storm Water Pollution Prevention Plan (SWPPP). Construction may not begin at the site until 45 hours have passed since the time of submittal of the NOI to the EPA. The contractor shall be responsible for following the soil erosion and sedimentation control plan and SWPPP included with the construction plans, as well as the requirements of the NOI, including the requirement that a erosion and sedimentation control plan be available at all times at the construction site. The contractor shall follow the "Procedures and Standards for Urban Soil Erosion and Sedimentation Control in Illinois", adopted by the Northeast Illinois Soil Erosion and Sedimentation Control steering committee in October, 1981.
- Construction site dewatering is prohibited, unless such waters are first effectively managed by appropriate controls. Appropriate controls included, but are not limited to, sediment basins or sediment traps, sediment filter bags, dewatering tanks, tube settlers, weir tanks, or filtration systems (e.g., bag or sand filters) that are designed to remove sediment from ground water or accumulated stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation.



CULVERT SIZE (FEET)	GRADATION (ROCK SIZE)	MIN. BLANKET (FEET)
12"	RR-3	15"
18"	RR-3	15"
24"	RR-3H-64	20"
30"	RR-4	20"
36"	RR-4	20"
42"	RR-4	20"
48"	RR-4	20"
60"	RR-5	28"
72"	RR-6	32"
96"	RR-7	32"

**RIP-RAP AT END SECTIONS (PERMANENT)**  
N.T.S.



- NOTES:**
- PVC RISER PIPE SHALL BE ONE SIZE SMALLER THAN AN OUTLET PIPE AND SHALL BE SECURELY FIXED TO THE INSIDE OF THE OUTLET PIPE WITH WOOD/STAKE, 12" DIA. MAXIMUM.
  - PVC PERFORATED PIPE SHALL HAVE A MINIMUM OF 1" HOLES EVENLY SPACED AROUND THE CIRCUMFERENCE OF THE PIPE.
  - PVC RISER PIPE SHALL BE LOOSELY DOUBLE OR TRIPLE WRAPPED WITH CHAIN WIRE OR 1/4" HARDWARE CLOTH AROUND BOTH MEMBERS AND WRAPPED ON THE OUTSIDE WITH A WOVEN MONOFILAMENT GEOTEXTILE.
  - PLACE SUFFICIENT C&1 STONE TO HOLD THE RISER PIPE IN PLACE.
  - TRASH RACK SHALL BE SECURELY FASTENED TO THE RISER PIPE. TRASH GUARD MAY BE FABRICATED FROM METAL RODS (1/8" DIA. MIN) OR GALVANIZED WELDED WIRE (1/8" DIA. MIN). THE SPACING BETWEEN VERTICAL MEMBERS SHOULD BE 1" INCH.

**PERFORATED RISER DETAIL**  
N.T.S.

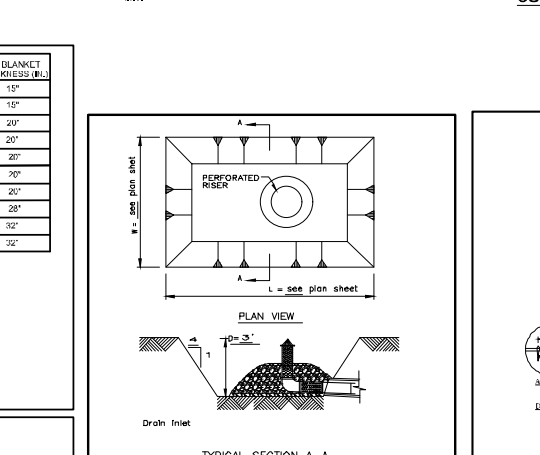
**EROSION PREVENTION CHART**  
N.T.S.

REFERENCE: "ILLINOIS URBAN MANUAL"	STABILIZATION	STORMWATER MANAGEMENT	STRUCTURAL PRACTICE	OTHER CONTROLS
PRACTICE	RESOURCES	INSPECTION	TIMING	MAINTENANCE
INSPECTION NOTES:				
1. EROSION CONTROL	X	X	X	X
2. MASS GRADING	X	X	X	X
3. DETENTION	X	X	X	X
4. UTILITIES	X	X	X	X
5. FOUNDATIONS	X	X	X	X
6. BUILDINGS	X	X	X	X
7. PAVING	X	X	X	X
8. FINAL LANDSCAPING	X	X	X	X

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING		A	+			*	*					
TEMPORARY SEEDING			C	+		D	*					
SODDING												
MULCHING												

AVERAGE PLANTING PERIOD  
\* IRRIGATION NEEDED DURING JUNE AND JULY  
\*\* IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOIL

**SOIL PROTECTION CHART**  
N.T.S.



- NOTES:**
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
  - The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
  - All cut slopes shall be 2:1 or flatter.

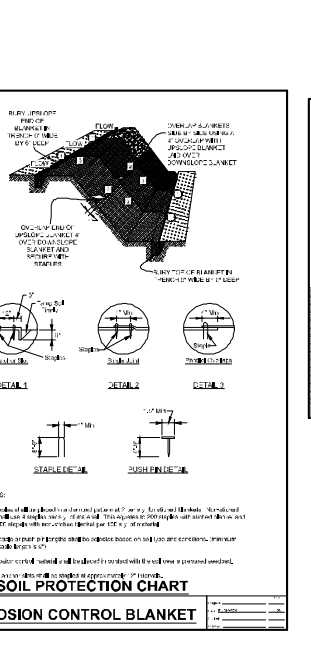
**TEMPORARY SEDIMENT TRAP**  
N.T.S.

CONSTRUCTION WILL BEGIN WITH THE EROSION CONTROL FEATURES SUCH AS THE DETENTION BASINS, GRASS SWALES, STORM WATER DIVERSIONS, DETENTION OUTLET PIPES, AND RESTRICTIONS WILL BE CONSTRUCTED. MASS GRADING SHOULD IMMEDIATELY FOLLOW THE ESTABLISHED EROSION CONTROL FEATURES. THE SWAIFST PRACTICAL AREA OF LAND SHALL BE EXPOSED FOR THE SHORTEST PRACTICAL TIME DURING CONSTRUCTION. THE UTILITIES SHOULD THEN BE CONSTRUCTED AND FOLLOWED BY THE ROADWAYS AND BUILDINGS.

- CONSTRUCTION SEQUENCING (IN THE REQUIRED ORDER OF CONSTRUCTION)**
1. EROSION CONTROL \*WINTER 2024
  2. MASS GRADING \*WINTER 2024
  3. DETENTION \*WINTER 2024
  4. UTILITIES \*WINTER 2024
  5. FOUNDATIONS \*WINTER 2024
  6. BUILDINGS \*WINTER - SPRING 2024
  7. PAVING \*SUMMER 2024
  8. FINAL LANDSCAPING \*SUMMER 2024

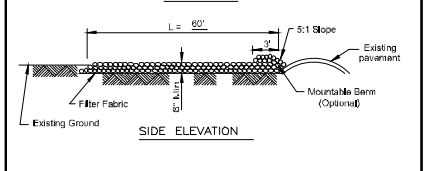
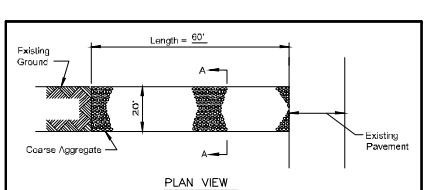
\* SUBJECT TO CHANGE  
NOTE: ADDITIONAL EROSION CONTROL WILL BE PROVIDED AS WARRANTED BY SITE CONDITIONS OR AS REQUIRED BY THE GOVERNING AGENCY.

**CONSTRUCTION PHASING**  
N.T.S.



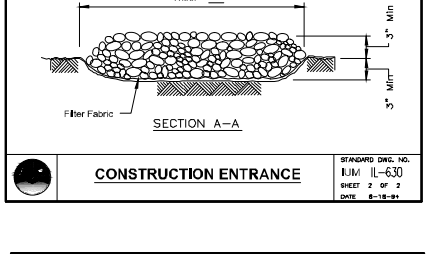
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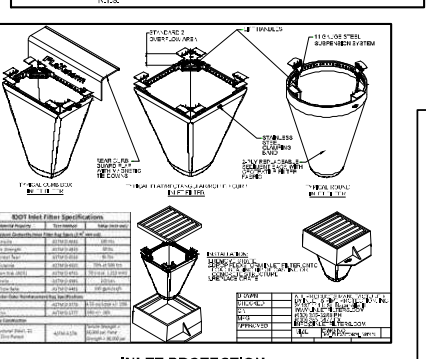


**CONSTRUCTION ENTRANCE**  
N.T.S.

STANDARD DETAIL  
TEMPORARY EROSION CONTROL  
REPAIRS - ALL 1' PIPES  
780.03



**TEMPORARY TOPSOIL STOCKPILE**  
N.T.S.



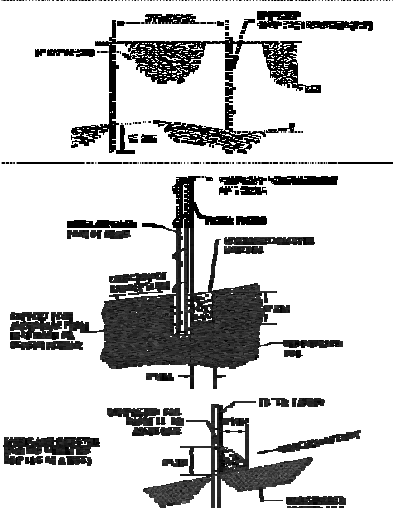
**INLET PROTECTION**  
N.T.S.

**NOTES:**

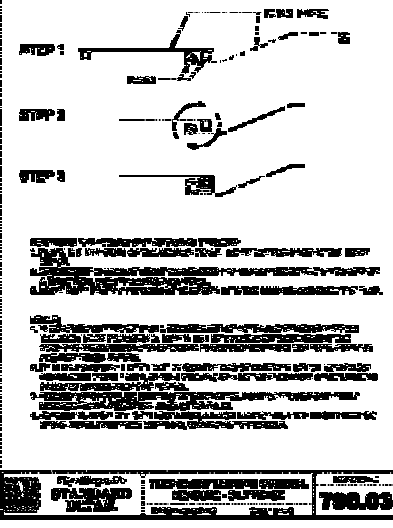
- Inlet protection shall be installed on all storm sewer inlets, manholes, and catch basins.
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**CONSTRUCTION PHASING**  
N.T.S.



**CONCRETE WASHOUT**  
N.T.S.

**NOTES:**

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and debris and returning the facilities to a functional condition.
- Facility shall be demised or reconstructed in a new area once washout becomes two-thirds full.

**OWNER'S CERTIFICATION**

Project or Site: Wolf Car Wash  
Operator Name: \_\_\_\_\_  
Company Address: \_\_\_\_\_  
Company Phone: \_\_\_\_\_  
Company Email: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATION**

Project or Site: Wolf Car Wash  
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Date: \_\_\_\_\_



**TERRA**  
600 Business Highway  
Park Ridge, IL 60068  
PH: 847/698-6400  
Fax: 847/698-6401

NO.	DESCRIPTION	DATE
1	V.L.L. PRELIM. REV. #1	04/14/23
2	V.L.L. PRELIM. REV. #2	04/14/23

**PRELIMINARY ENGINEERING**

**CAR WASH FACILITY**  
1492 W. OGDEN AVE.  
NAPERVILLE, IL 60540

DESIGNED BY: M.S.L.  
DRAWN BY: K.S.L.  
DATE: 08/08/2023  
PROJECT #: 1821

**STORMWATER POLLUTION PREVENTION DETAILS**

**C-12**