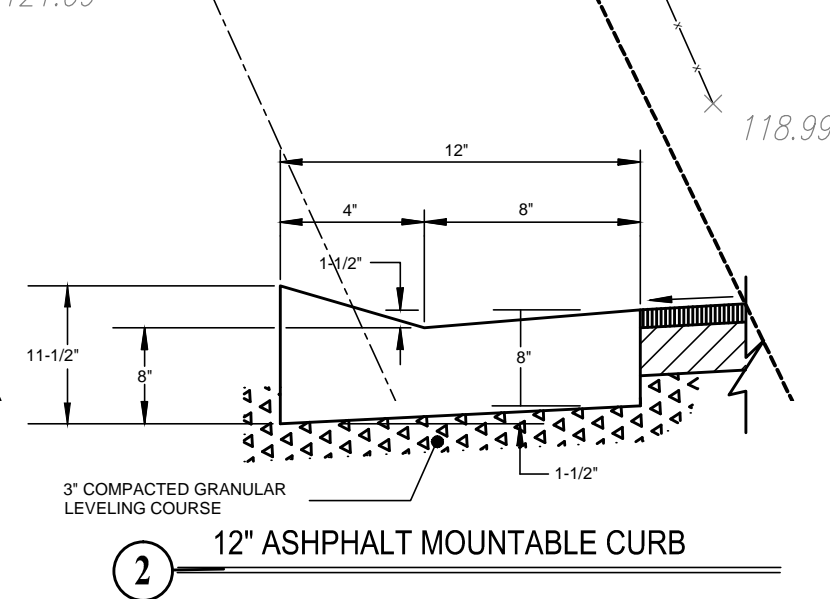
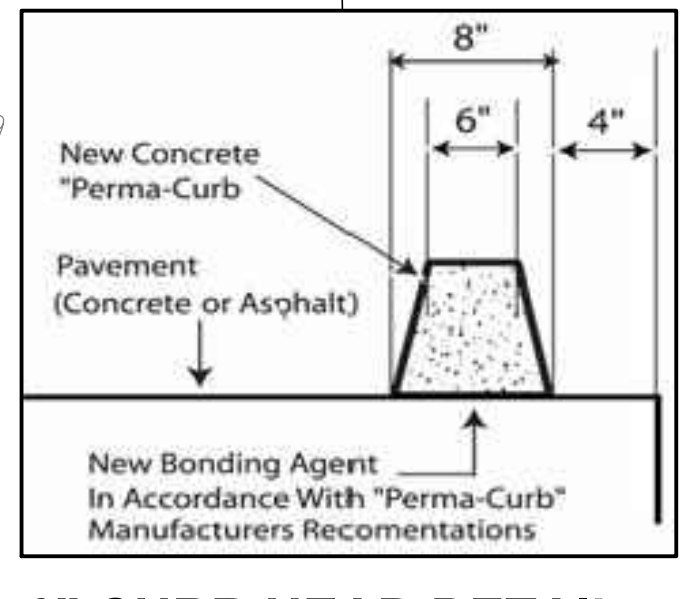


GENERAL CONSTRUCTION NOTES:

- All work shall be in accordance with the Standard Specifications for Highway and Structure Construction, State of Wisconsin, Latest Edition; the State of Wisconsin Plumbing Code AND the City of Waukesha Ordinances, unless otherwise called for by the plans, specifications or special provisions.
- Contractor shall obtain all local, state or federal permits prior to commencing any construction on the site. Any Work within the right of way will require additional permits from the State, County or City. Contractor is required to contact all agencies for applicable permits.
- All erosion control measures specified on this plan shall meet the design criteria, standards and specifications as set forth in the Department of Natural Resources Wisconsin Technical Standards.
- All erosion control devices (i.e., gravel access, silt fence, etc.), shall be installed prior to commencing any site work on the property.
- All activities on the site shall be conducted in a logical sequence to minimize the area of bare soil exposed at any one time.
- The owner will provide all surveying and construction staking for this contract. The contractor shall exercise care and diligence in protecting the same.
- The contractor shall notify Diggers Hotline, all utilities City Departments, and government units whose property may be affected by the contractor's operations at least three (3) days before breaking ground. Diggers Hotline number is 811.
- Public roads shall not be closed to traffic at any time. All ingress and egress traffic to the project shall be limited to the TRACKING PAD entrance to the property.
- Contractor shall be responsible for maintaining the public roadways. The Roadways shall be kept free of silt or dirt tracked from areas under construction by sweeping within 24hrs.
- Upon completion of the work as specified, spread four (4") inches of salvaged topsoil over all disturbed areas and provide seed, fertilizer and erosion control fabric per the WDRN Technical Standards.
- All disturbed areas that remain inactive for more than 7 days shall be revegetated. Highway mix #40 shall be used for seeding with an application rate of 4.0 lbs/1000 sq ft; unless otherwise specified on the plan.
- All erosion control devices shall be routinely inspected every seven days or within 24 hours of a rainfall greater than 0.5 inches. INSPECTION BY GENERAL CONTRACTOR.



12" ASPHALT MOUNTABLE CURB



6" CURB HEAD DETAIL

CONSTRUCTION PHASING SEQUENCING:

THE GENERAL CONTRACTOR MUST OBTAIN ALL APPLICABLE LOCAL, STATE AND FEDERAL PERMITS PRIOR TO PROCEEDING WITH THE FOLLOWING CONSTRUCTION SEQUENCE AS REQUIRED BY THE WDRN AND THE CITY OF WAUKESHA:

- INSTALL SILT FENCE & GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.
- STRIP TOPSOIL AND HAUL OFFSITE.
- PROOF ROLL AS MONITORED BY SOILS CONSULTANT, PLACE STONE SUBGRADE AND PAVE ALL PARKING LOT SURFACES.
- RESTORE ALL DISTURBED AREAS IN LESS THAN 7 DAYS AS SPECIFIED ON THE PLAN AND NOTES.
- REVEGETATE AND STABILIZE ALL REMAINING DISTURBED AREAS PER PLAN.
- FOLLOWING FINAL INSPECTION BY THE CITY AND FULL SITE STABILIZATION; REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, INCLUDING THE TRACKING PAD.

OPEN CHANNEL HIGH FLOW OVERLAND RELIEF CALCULATIONS:
100YR DISCHARGE FROM 36,000SF PARKING LOT = +/- 6.5CFS
FLOW DEPTH IN OPEN CHANNEL = 0.12FT OR 1.4inches

The open channel flow calculator

Select Channel Type: Trapezoid

Depth from Q: 0.12 ft

Water depth (y): 0.12 ft

Channel slope (S): 0.01

Left Slope (Z1): 3

Right Slope (Z2): 3

Flow velocity (V): 7.00433 ft/s

Flow discharge (Q): 6.5 ft³/s

Wetted perimeter (P): 6.74 ft

Specific energy (E): 1.29 ft

Critical depth (yc): 0.32 ft

Bottom width (b): 6 ft

Flow area (A): 0.75 ft²

Froude number (Fr): 4.59

Critical slope (Sc): 0.0031 ft/ft

Top width (T): 6.71 ft

Flow status: Supercritical flow

Velocity head (h): 1.18 ft

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GRADING CONSTRUCTION SCHEDULE:
Estimated Start Date: MAY 1, 2018
Estimated Completion Date for Proposed Stabilization: JUNE 15, 2018

REVISIONS	DATE	DESC.

ELLENA ENGINEERING CONSULTANTS, LLC
SITE CIVIL ENGINEERING & STORMWATER MANAGEMENT
Ellena Engineering Consultants, LLC - 700 Pilgrim Parkway - Suite 100 - Elm Grove, WI 53122
Phone: 262-719-6183 • Fax: 866-457-2584 • Email: mellen@eeceng.com

SCENIC STORAGE AREA
Waukesha, Wisconsin

GRADING, PAVING & EROSION CONTROL PLAN

SCALE: 1"=20' JOB NO.: DATE: 08-22-17

CHECKED BY: C1

MARK R. ELLENA
E-24490
WAUKESHA, WI
PROFESSIONAL ENGINEER