

General Engineering Company

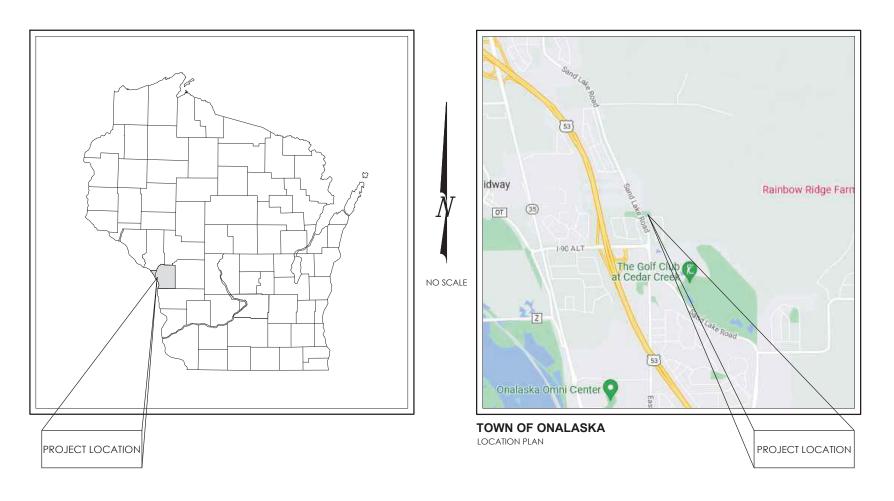
TITLE PAGE
THUNDERBIRD HILLS SUBDIVISION
TOWN OF ONALASKA

DRAWN BY ISSUE DATE MARCH 2023 GEC FILE NO. 2-0122-44G SHEET NO.

G1.0

# THUNDERBIRD HILLS SUBDIVISION **TOWN OF ONALASKA**

## **TOWN OF ONALASKA** LA CROSSE COUNTY, WI



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ENGINEER SEAL:

- ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED, BY CONTRACTOR, PRIOR TO CONSTRUCTION.
- ALL ASPHALT REPAIRS/REPLACEMENT SHALL BE SAWCUT TO MATCH EXISTING PAVEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

#### STORM SEWER

STORM SEWER PIPE LENGTHS ARE SHOWN MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE

### **GRADING & EROSION CONTROL NOTES**

- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
- SILT FENCE TEMPORARY SEDIMENT BASIN & ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING CLEARING & GRUBBING.
- ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION TYPE-D INSTALLED UPON INLET INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR WEEKLY DNR INSPECTION REPORTS IN ACCORDANCE WITH NR
- ADDITIONAL EROSION CONTROL MEASURES MAY BE ADDED ON AN AS-NEEDED BASIS.
- THE POND SHALL BE CONSTRUCTED PRIOR TO MASS LAND DISTURBANCE.
- ANY AREAS WHERE GRADING IS COMPLETE SHALL BE STABILIZED WITH FERTILIZER, SEED, & MULCH AS
- 10. STOCKPILES LEFT INACTIVE FOR 7 DAYS SHALL BE SEEDED AND SURROUNDED BY SILT FENCE.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO RECEIVING CHANNEL.
- EROSION CONTROL MAT CLASS I, TYPE A WILL BE USED IN NON-CHANNEL AREAS AND CLASS I, TYPE B

- CONTRACTOR SHALL INSTALL THEM AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO MINIMIZE TRACKING ONTO ADJACENT STREETS. THESE PADS ARE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
- 16. CONTRACTOR WILL BE RESPONSIBLE FOR ALL DUST CONTROL
- DEPTH THAT IS EQUAL TO HALF THE BARRIER'S HEIGHT.
- BREAKS AND GAPS IN SEDIMENT FENCES AND BARRIERS WILL BE REPAIRED IMMEDIATELY.
- CLEANED UP BEFORE THE END OF THE SAME WORKDAY.
- 21. ALL EROSION CONTROL MAT SHALL BE INSTALLED WITHIN 24 HOURS OF FINAL GRADES BEING

### PRELIMINARY NOT FOR CONSTRUCTION

#### SANITARY SEWER STORM SEWER $\bigcirc$ WATER MAIN -0 FORCE MAIN ELECTRIC

OVERHEAD ELECTRIC -OF -GAS FIBER OPTIC TELEPHONE \_TV \_ TV FENCE

WM -

—FМ —

— DB — DB — DB —

\_\_\_x\_\_x\_\_x\_\_x\_\_ 0 0 0 **GUARD RAIL** — GI — GI — GI — GRADING LIMITS — SF — SF — SF — SILT FENCE

ALL BEST MANAGEMENT PRACTICES WILL BE INSTALLED BY THE TIME THE CONSTRUCTION SITE IS

- A COPY OF THIS EROSION CONTROL PLAN SHALL BE KEPT ON SITE THROUGHOUT THE DURATION OF THE
- WILL BE USED IN CHANNEL AREAS.
- 13. STREETS SHALL BE SWEPT AT THE END OF EACH WORK DAY OR AS DIRECTED BY THE MUNICIPALITY.
- 14. TRACKING PADS SHALL BE USED AT THE CONSTRUCTION ENTRANCE AND EXITS
- ALTHOUGH ROCK CONSTRUCTION TRACKING PADS MAY NOT BE SHOWN ON THE PLANS, THE
- SEDIMENT WILL BE REMOVED FROM BEHIND SEDIMENT FENCES AND BARRIERS BEFORE IT REACHES A
- DECOMPOSING STRAW BALES WILL BE REPLACED (TYPICAL BALE LIFE IS THREE MONTHS).
- ALL INSTALLED EROSION CONTROL PRACTICES WILL BE MAINTAINED UNTIL THE DISTURBED AREAS THEY
- **ESTABLISHED**

### EXISTING LINETYPES LEGEND SYMBOLS LEGEND

### (S)(D) EXISTING MANHOLE PROPOSED MANHOLE EXISTING HYDRANT PROPOSED HYDRANT VALVE $\otimes$ CURB STOP

TRACER WIRE TERMINAL BOX WFII  $\wedge$ PROPERTY CORNER

Company

Engineering

General

LEGEND & NOTES
DERBIRD HILLS SUBDIVISION
TOWN OF ONALASKA

THON

ONALASKA E COUNTY, WI

TOWN OF C

 $\bigcirc \Rightarrow$ LIGHT POLE POWER / TELEPHONE POLE GUY WIRE

UTILITY PEDESTAL ھے SIGN • SOIL BORING

> MONITORING WELL MAILBOX

> > DECIDUOUS TREE

CONIFEROUS TREE

HANDICAP SYMBOL

 $\sim$  MMM/ **ECAUTION** POTENTIAL HAZARD 7WWW BENCHMARK

**GEC-CP** # CONTROL POINT

DOUBLE SEDIMENT

TRAIN TRACKS

INI = INI FT IOS = INSIDE OF STRUCTURE

L = LENGTH LN = LINE LP = LOW POINT

ALL SEDIMENT THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS WILL BE

#### TREELINE **ABBREVIATION LIST**

BOP = BOTTOM OF PIPE BOW = BOTTOM OF WALL C-C = CENTER TO CENTER CL = CENTERLINE CP = CONTROL POINT DIA = DIAMETER ELEV = ELEVATION EOG = EDGE OF GRAVEL EOP = EDGE OF PAVEMENT EX = EXISTING FL = FLOW LINE FM = FORCE MAIN HC = HORIZONTAL CURVE HP = HIGH POINT IE = INVERT ELEVATION MH = MANHOLE MIN = MINIMUM MP = MIDPOINT= POINT OF CURVE = POINT OF INTERSECTION PI = POINT OF INTERSECTION
PRO = PROPOSED
PT = POINT OF TANGENT
PVC = POINT OF VERTICAL CURVE
PVI = POINT OF VERTICAL INTERSECTION
PVMT = PAVEMENT PVT = POINT OF VERTICAL TANGENT R = RADIUS ROW = RIGHT OF WAY

S = SANITARY SEWER SERVICE LATERAL SAN = SANITARY SEWER

UOS = UNLESS OTHERWISE SPECIFIED VC = VERTICAL CURVE W = WATER MAIN SERVICE LATERAL

DIGGERS HOTLINE NOTE or 1-800-242-8511

### **OWNER**

TOWN OF ONALASKA N 5589 COMMERCE ROAD ONALASKA, WI 54650

# PHONE: (608) 783-4958

### **UTILITIES**

1. ELECTRIC XCEL ENERGY LACROSSE, WI 54603 PHONE: (800) -895-4999

SAN = SANITARY SEMEN SE = SPOT ELEVATION ST = STORM SEWER STA = STATION STD = STANDARD IC = TOP OF CURB TOP = TOP OF PIPE TOW = TOP OF WALL TYP = TYPICAL

WM = WATER MAIN

2. TELEPHONE CENTURY LINK 40 COPELAND AVENUE #109B LACROSSE, WI 54603

PHONE: (608) 796-5440

PHONE: (608) 781-1011

3. GAS MIDWEST NATURAL GAS INCORPORATED LA CROSSE, WI 54601

4. CABLE TV CHARTER COMMUNICATIONS

1228 12TH AVE ONALASKA, WI 54650 PHONE: (888)438-2427

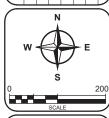
5. MUNICIPALITY TOWN OF ONALASKA

N 5589 COMMERCE ROAD ONALASKA, WI 54650 PHONE: (608)783-4958

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G1.1



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C2.3





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C3.0

C3.1



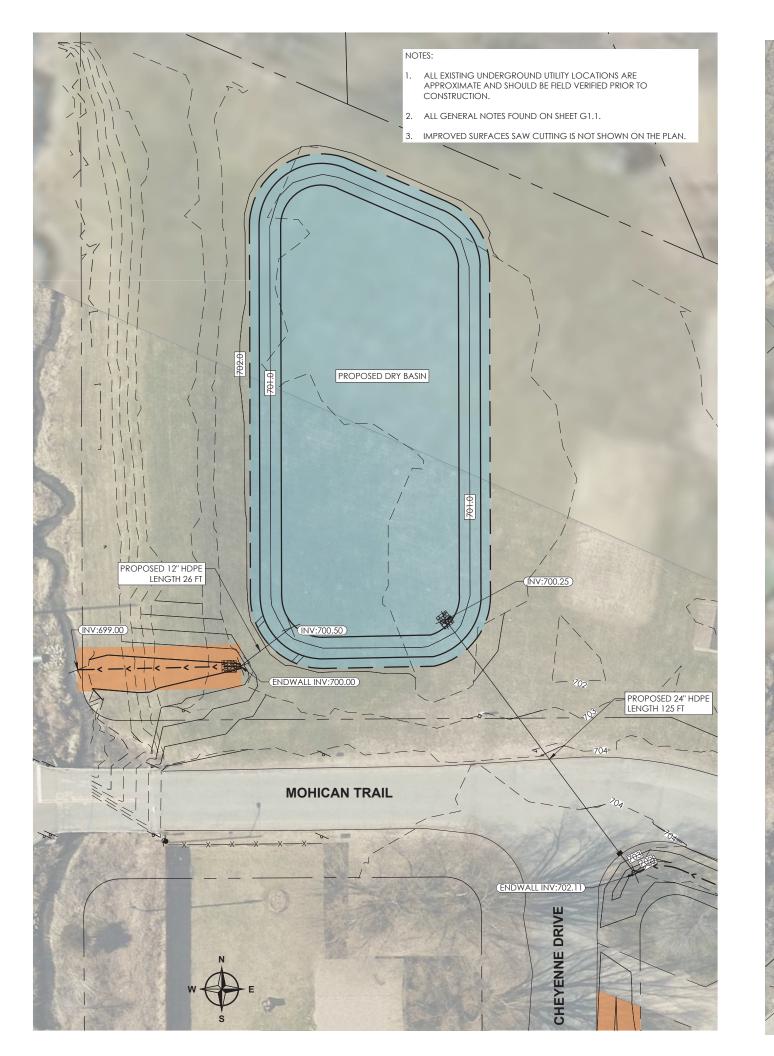
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C3.3

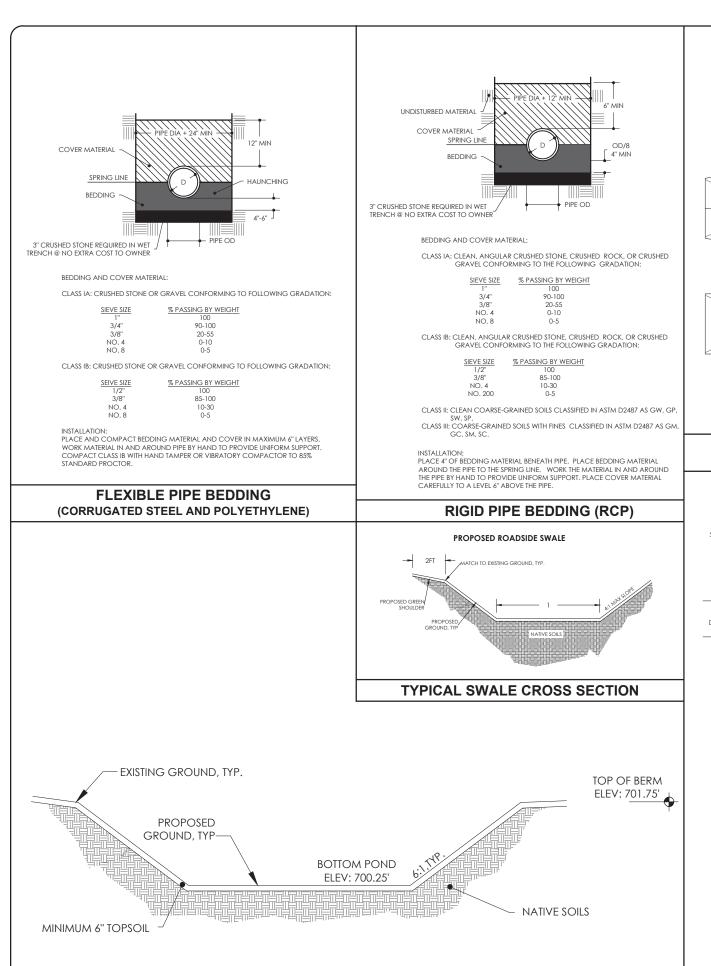




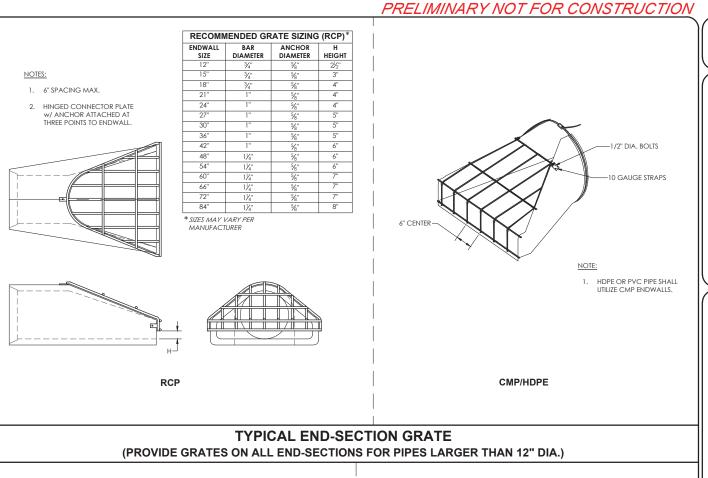
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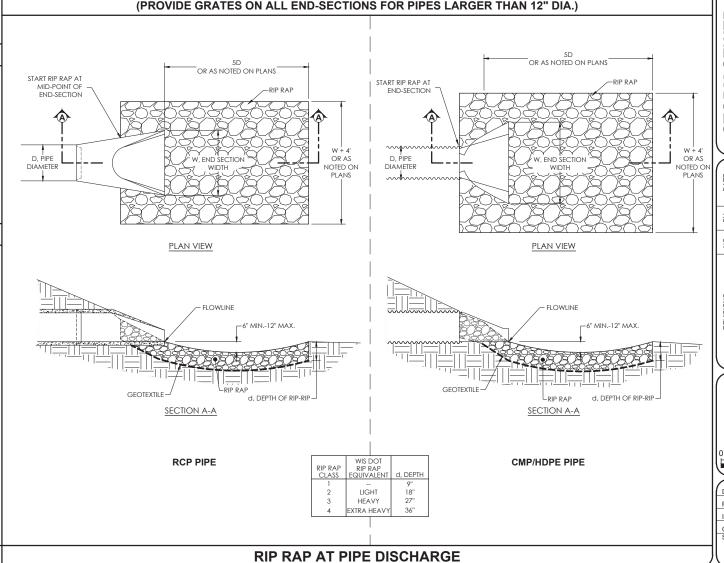






**DRY POND CROSS SECTION** 







Company

2'x3' CURB INLET -USE NEENAH R-4349-D IN-BELL INLET GRATE, WHEN SPECIFIED ON PLANS. RESTRICTOR PLATE
(SEE PLANS IF REQUIRED) PIPE SIZE VARIES —GRAVEL BASE

CAST IN PLACE-CONCRETE

6X6, W2.9 X W2.9

BACK OF CURB-

FACE OF CURB

-FLAG OF CURB (30" SHOWN)

CAST BOTTOM

36" INSIDE DIAMETER

**SECTION A-A** 

NEENAH R-4349-D IN-BELL GRATE

**36" RCP INLET** 

CONTROL-ELEVATION

- 5. WHEN MH CASTING IS USED, AN ECCENTRIC CONE TOP SHALL BE USED IF MH HAS ENOUGH DEPTH.
- PROVIDE MANHOLE STEPS, 16" O.C. FOR STRUCTURES WHEN DEPTH IS OVER 4". MANHOLE STEPS SHALL CONFORM TO THE SPECIFICATIONS.

**STORM SEWER MANHOLE / INLET** 

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C5.0

#### INSTALLATION NOTES:

#### TYPE B & C

- 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 HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

- 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.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH 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.

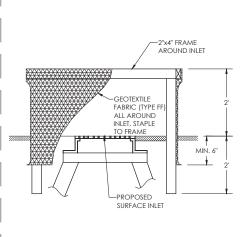
#### **GENERAL NOTES:**

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WIS DOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

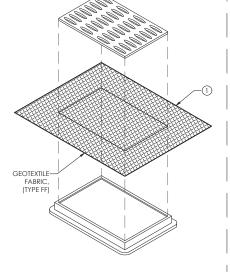
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

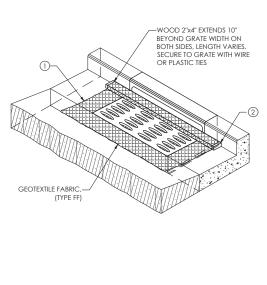
- TINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR
- 2 FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED ARCHING THE WOOD AND SECURED WITH CARE TO THE WOOD AND WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKET SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2" x 4".
- 4) USE REBAR OR STEEL ROD FOR REMOVAL OR FOR INLETS WITH CURB CASTING; USE A WOOD 2"x4" EXTENDED 10" BEYOND SIDES OF GRATE. CONNECT 2"x4" TO GRATE WITH

NOTES



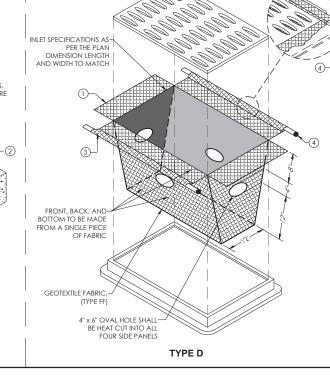
TYPE A





TYPE C

(WITH CURB BOX)



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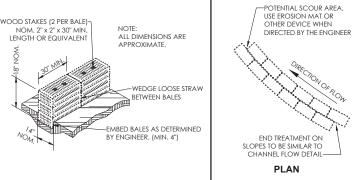
Company

Engineering General E

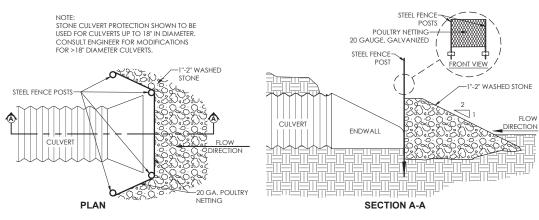
EROSION CONTROL DETAILS
THUNDERBIRD HILLS SUBDIVISION
TOWN OF ONALASKA TOWN OF ONALASKA A CROSSE COUNTY, WI

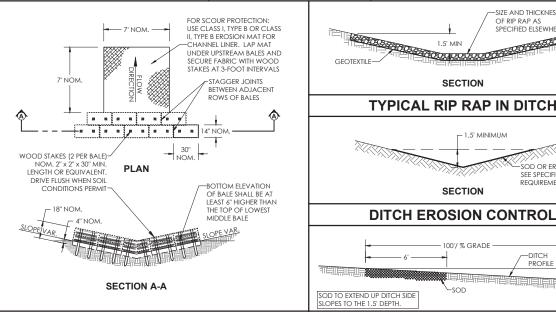
### **INLET PROTECTION**

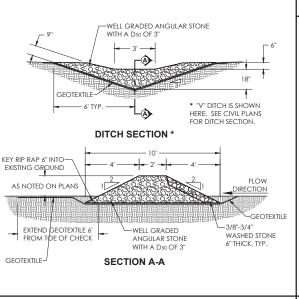
TYPE B (w/o CURB BOX)



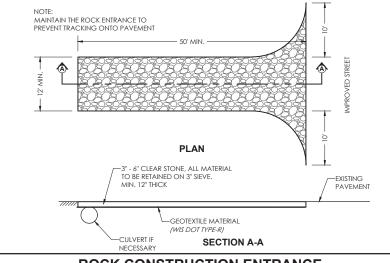
**EROSION BALE FOR CHANNEL FLOW** 

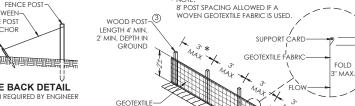


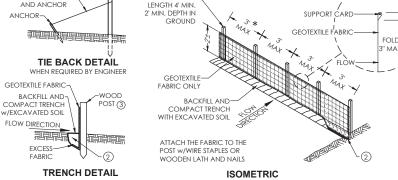




STONE DITCH CHECK







- (i) HORIZONTAL BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
- (2) TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.

SILT FENCE

(3) WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY

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**EROSION BALE FOR EROSION BALE ALTERING FLOW INSTALLATION DIRECTION** STONE CULVERT PROTECTION SIZE AND THICKNESS **ROCK CONSTRUCTION ENTRANCE** OF RIP RAP AS SPECIFIED ELSEWHER \* NOTE: 8' POST SPACING ALLOWED IF A TIE BACK BETWEEN FENCE POST AND ANCHOR **TYPICAL RIP RAP IN DITCH** 

SOD OR FROSION MAT

REQUIREMENTS

PROFILE

SOD DITCH CHECKS