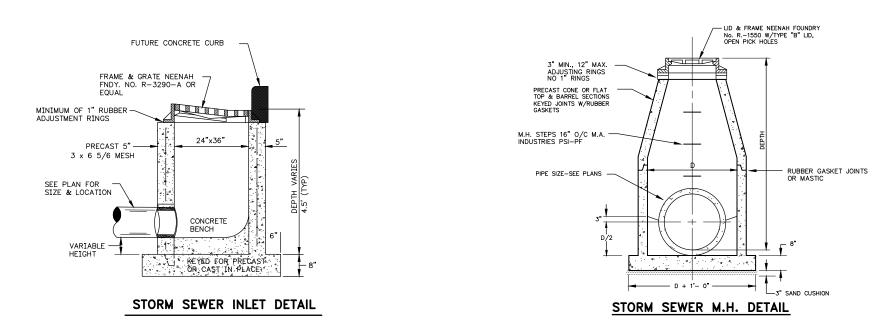
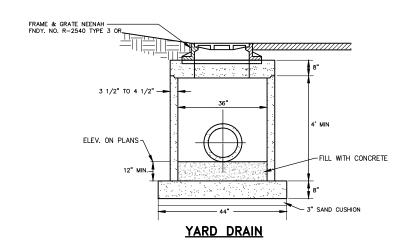
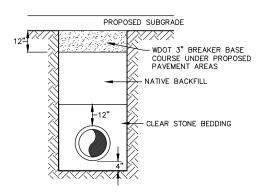
dwg, 19 BETTER WAY, 2/18/2021 11:15:47 AM, RSch

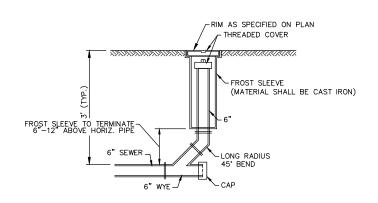




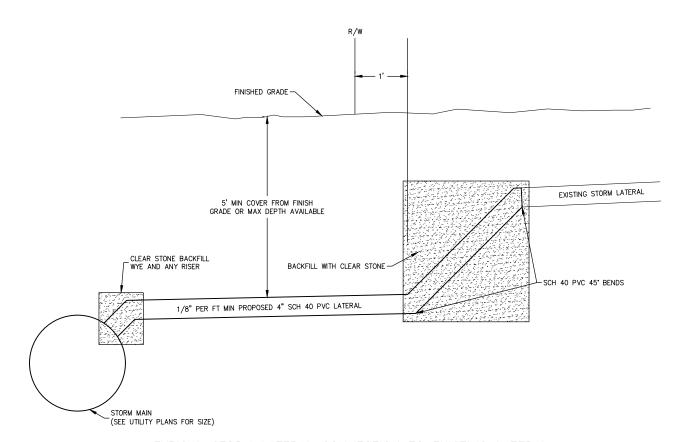




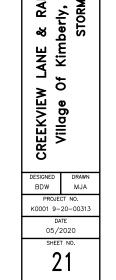
TYPICAL STORM TRENCH



6" STORM SEWER CLEANOUT



TYPICAL STORM LATERAL CONNECTION TO EXISTING LATERAL



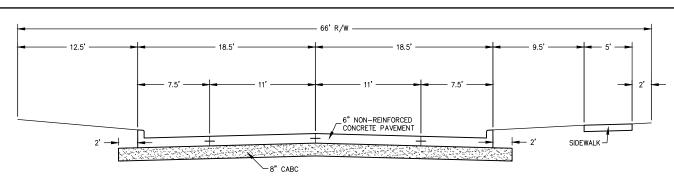
RECONSTRUCTION

STREET

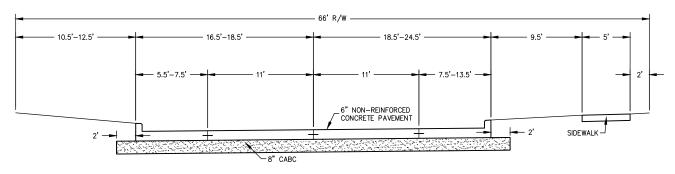
RAILROAD

Outagamie County, Wisconsin SEWER DETAILS

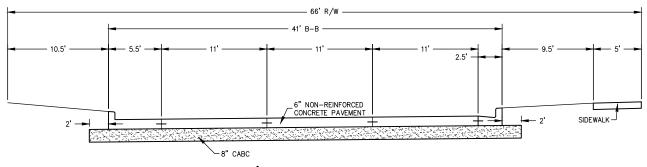
McMAHON



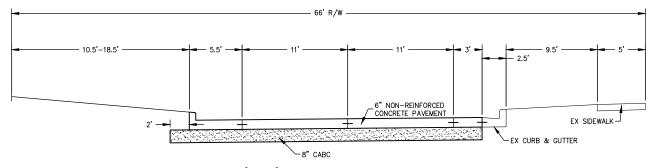
37' B-B TYPICAL SECTION 10+59-14+87



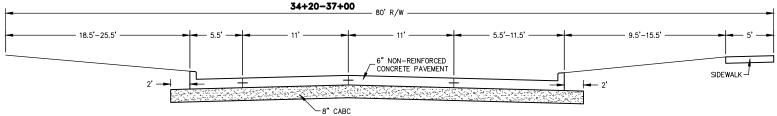
37'-41' B-B TYPICAL SECTION 14+87-17+80



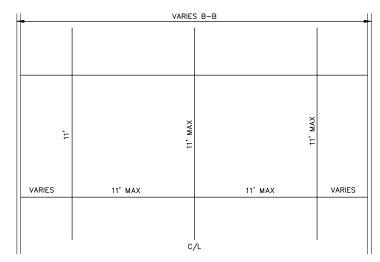
41' B-B TYPICAL SECTION 17+80-34+20



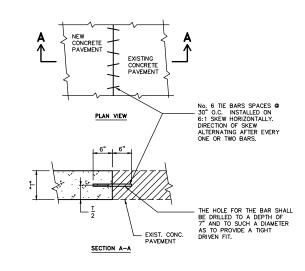
33'-41' B-B TYPICAL SECTION



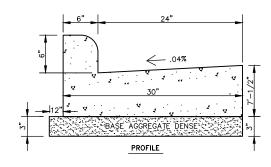
33'-39' B-B TYPICAL SECTION
37+00-40+70
39' B-B 40+70-41+63



SAWCUT DETAIL



PAVEMENT TIES



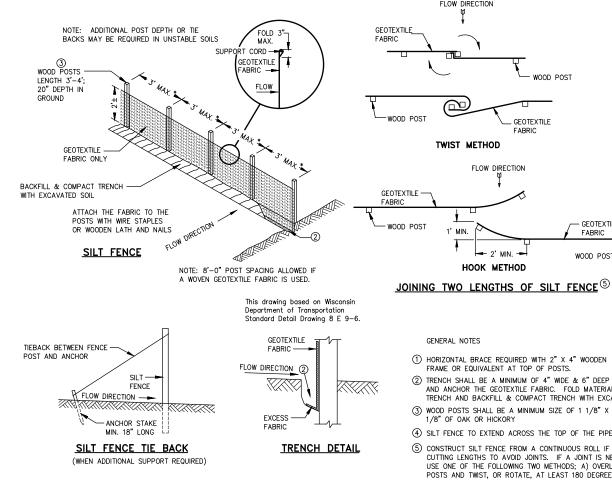
STREET CURB DETAIL
(SEPARATE CURB & GUTTER)



PROJECT NO. K0001 9-20-00313

05/2020

McMAHON ENGINEER ANG HITE



1 HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

FLOW DIRECTION

TWIST METHOD

1' MIN.

GENERAL NOTES

FLOW DIRECTION

HOOK METHOD

(2) TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

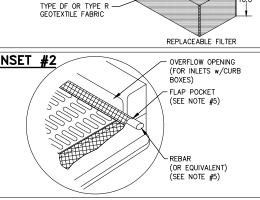
GEOTEXTILE.

FABRIC

WOOD POST-

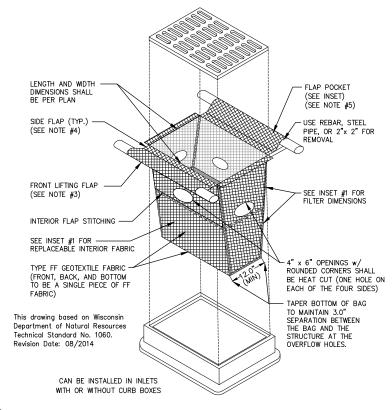
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY
- 4 SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

INSET #1 INTERRIOR FLAP STITCHING 12 INCH TYPE FF FABRIC FLAPS INSIDE ALL FOUR SIDES STITCHED ONLY ON TOP REPLACEABLE SIDE VIEW STITCHED ALL FOUR CORNERS TYPE DF OR TYPE F REPLACEABLE FILTER INSET #2 OVERFLOW OPENING (FOR INLETS w/CURB



GENERAL NOTES

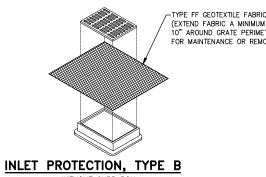
- TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
- GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
- 3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
- 4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
- 5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" \times 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



MAINTENANCE NOTES

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

INLET PROTECTION, TYPE D-M



MAINTENANCE NOTES

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO

STORM DRAIN INLET PROTECTION

TYPE FF GEOTEXTILE FABRIC (EXTEND FABRIC A MINIMUM OF 10" AROUND GRATE PERIMETER FOR MAINTENANCE OR REMOVAL)

THE INLET SHALL BE IMMEDIATELY REMOVED.

CREEKVIEW Village DESIGNE BDW MJA K0001 9-20-00313 05/2020

McM

RECONSTRUCTION

STREET

RAILROAD

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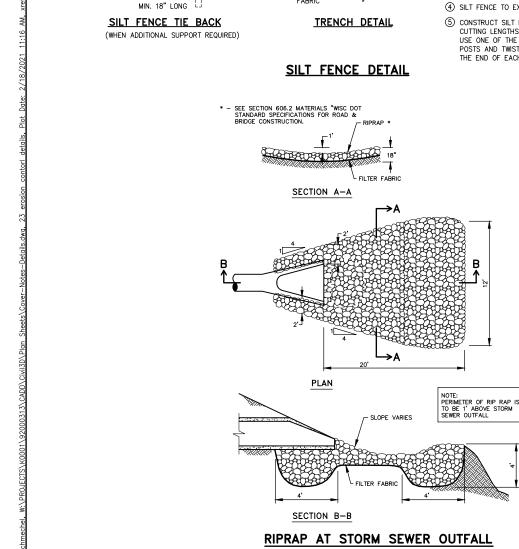
Wisconsin

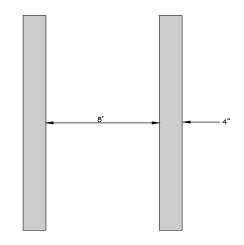
County,

Outagamie

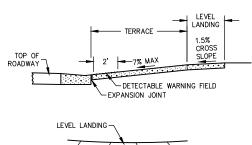
Kimb

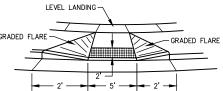
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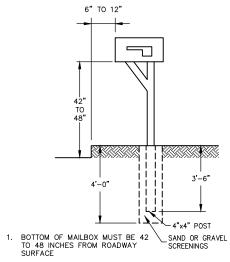


TYPICAL CROSS WALK DETAIL WHITE EPOXY





TYPE 3 CURB RAMP



FRONT OF MAILBOX MUST BE 6
 TO 12 INCHES BACK FROM EDGE
 OF CURB OR ROADWAY

TYPICAL MAILBOX INSTALLATION

CREEKVIEW LANE & RAILROAD STREET RECONSTRUCTION VIIIage Of Kimberly, Outagamie County, Wisconsin MISCELLANEOUS DETAILS

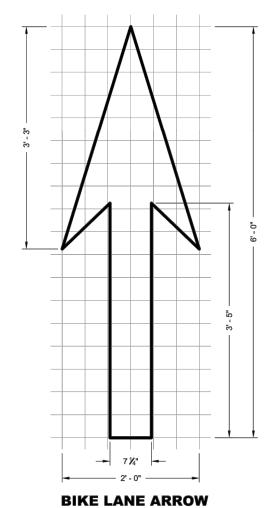
McMAHON

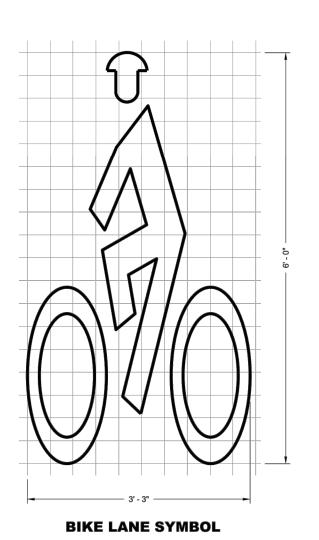
DESIGNED BDW MJA PROJECT NO. K0001 9-20-00313 DATE 05/2020

24

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND





PAVEMENT MARKING FOR BIKE LANES

DEPARTMENT OF TRANSPORTATION

November 2019

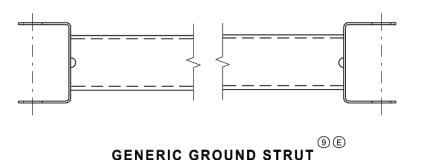
McMAHON

STATE OF WISCONSIN APPROVED

/S/ Matthew Rauch

CREEKVIEW LANE & RAILROAD STREET RECONSTRUCTION VIllage Of Kimberly, Outagamie County, Wisconsin BIKE LANE DETAILS PROJECT NO. K0001 9-20-00313 DATE 05/2020

SDD 14B44-b Midwest Guardrail System (MGS) Energy Absorbing Terminal



1 1/16" Ø HOLE -



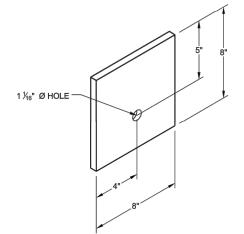
SECTION A - A

GENERIC ANCHOR CABLE BOX

CABLE RELEASE

CARLE ASSEMBLY

FRONT VIEW



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM **ENERGY ABSORBING TERMINAL** (MGS)

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PROJECT NO. K0001 9-20-00313 05/2020

McMAHO

RECONSTRUCTION

CREEKVIEW LANE & RAILROAD STREET RECONSTRUCTIC

BILL OF MATERIALS

PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG. STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.

UPPER POST NO. 1 6" X 6" TUBE

LOWER POST NO. 1 WOOD CRT WOOD BLOCKOUT PIPE SLEEVE BEARING PLATE BCT CABLE ASSEMBLY ANCHOR CABLE BOX GROUND STRUT

IMPACT HEAD

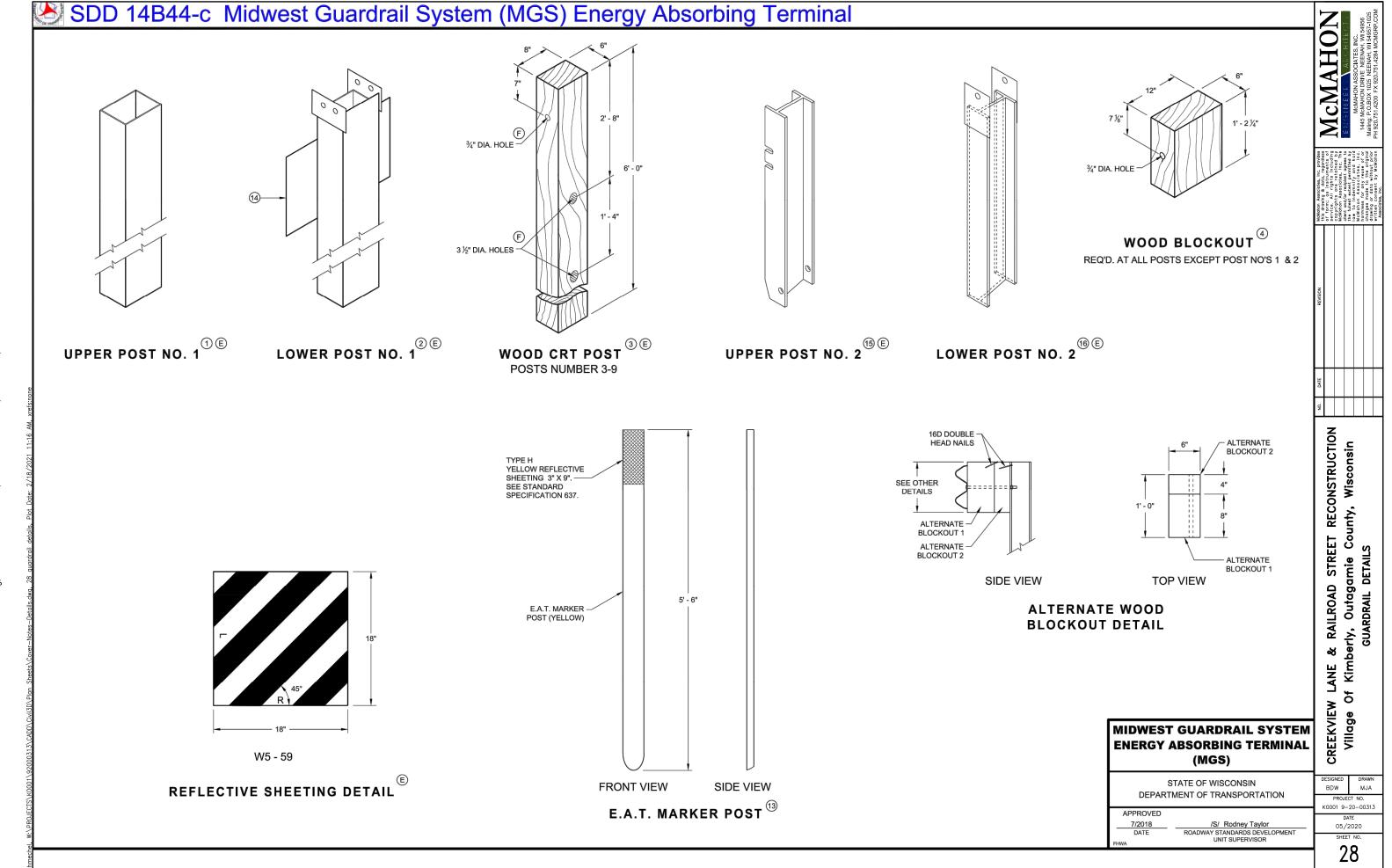
UPPER POST NO. 2 LOWER POST NO. 2

EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

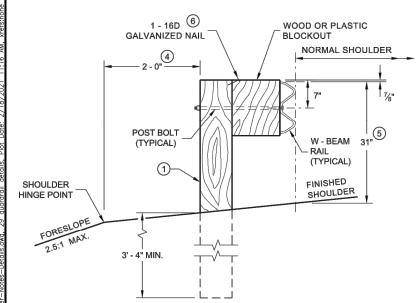
MATERIALS PROVIDED BY MGS EAT MANUFACTURER.

PART

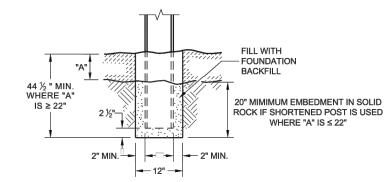
NO.



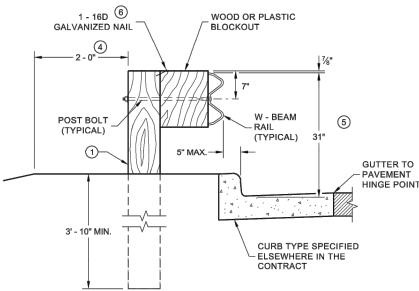
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY
- ③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE
- WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 3/4" TO 32"
- WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- TOTAL POST LENGTH FOR TYPE K IS 7' 0".
 TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".



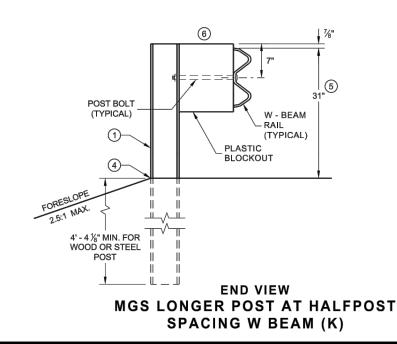
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

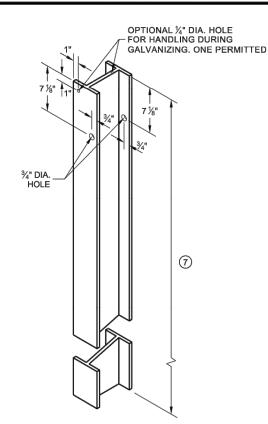


SETTING STEEL OR WOOD POST IN ROCK

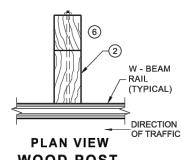


END VIEW LOCATED ALONG A CURBED ROADWAY

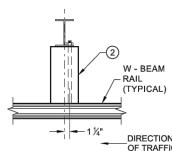




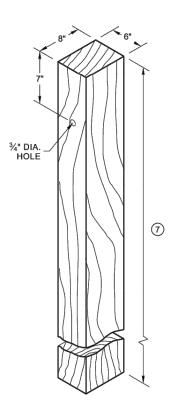
STEEL POST & HOLE **PUNCHING DETAIL** (W 6 X 9) ①



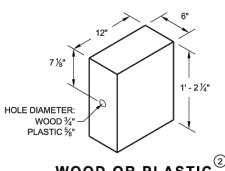
WOOD POST. **BLOCKOUT & BEAM**



PLAN VIEW STEEL POST, **PLASTIC BLOCKOUT & BEAM**



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC² **BLOCKOUT**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

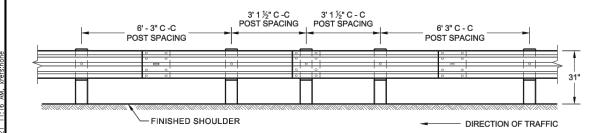
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION McM_{L}

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DATE						
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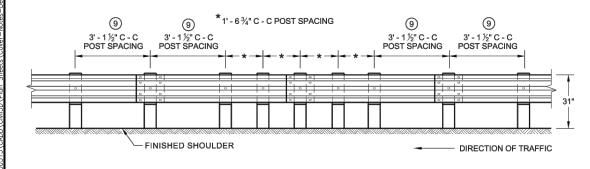
RECONSTRUCTION STREET RAILROAD Of Kimberly,

K0001 9-20-00313 05/2020

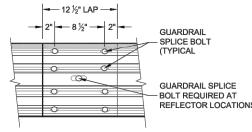
FRONT VIEW POST SPACING STANDARD INSTALLATION



FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



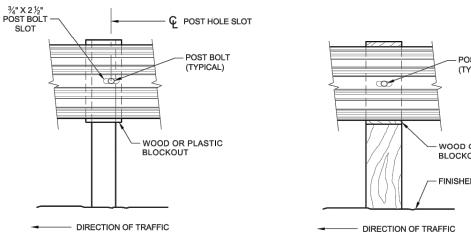
FRONT VIEW QUARTER POST SPACING (QS)



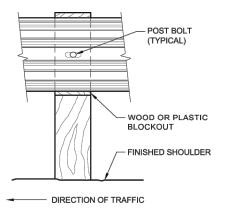
FRONT VIEW

REFLECTOR LOCATIONS

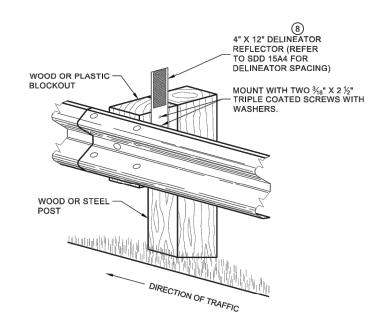




FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



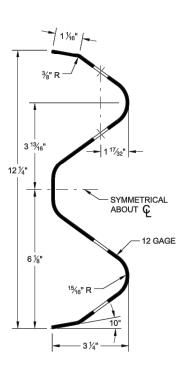
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/6" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION K0001 9-20-00313 05/2020

McMAHO

RECONSTRUCTION

STREET

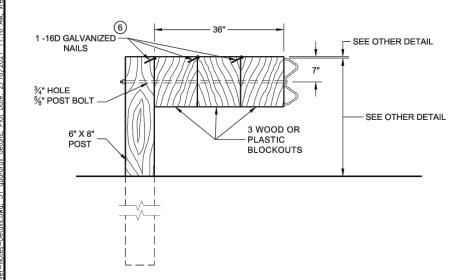
RAILROAD

CREEKVIEW LANE & RA VIllage Of Kimberly,

County, Wisconsin

DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



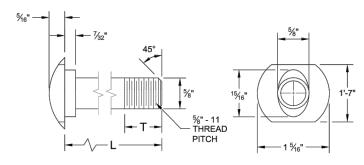
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

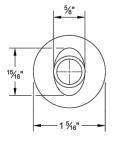
NOTE:

- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/6".
- 2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

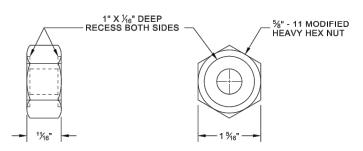


POST BOLT TABLE

L	T (MIN.)		
1 1/4"	1 1/6"		
2"	1 3/4"		
10"	4"		
14"	4 1/16"		
18"	4"		
21"	4 1/16"		
25"	4"		

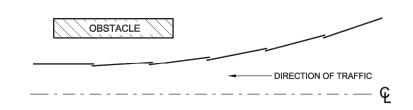


ALTERNATE BOLT HEAD

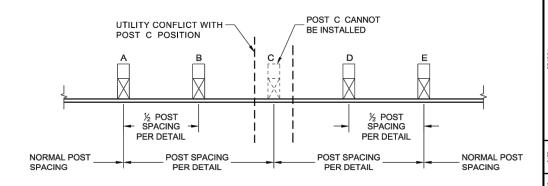


POST BOLT, SPLICE BOLT **AND RECESS NUT**

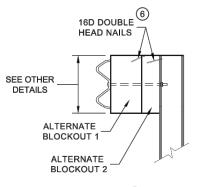
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

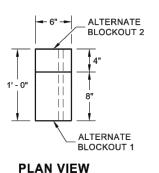


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS **UNDERGROUND OBSTRUCTION**





SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION K0001 9-20-00313 05/2020

CREEKVIEW LANE & RA VIIIage Of Kimberly,

RECONSTRUCTION

STREET

RAILROAD

County, Wisconsin

McMAH

