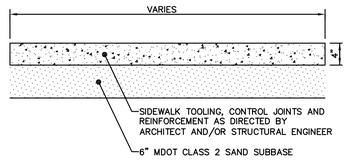
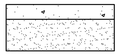
811 Know what's **below.** **Call** before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.



CONCRETE SIDEWALK DETAIL

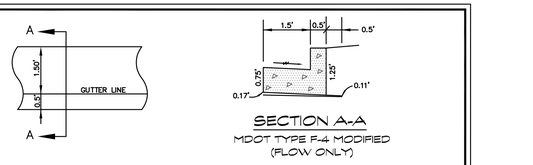
N.T.S.



CONCRETE ROAD CROSS SECTION

N.T.S.

NOTE: REFER TO GEOTECHNICAL REPORT FOR FINAL PAVEMENT DESIGN SPECIFICATION

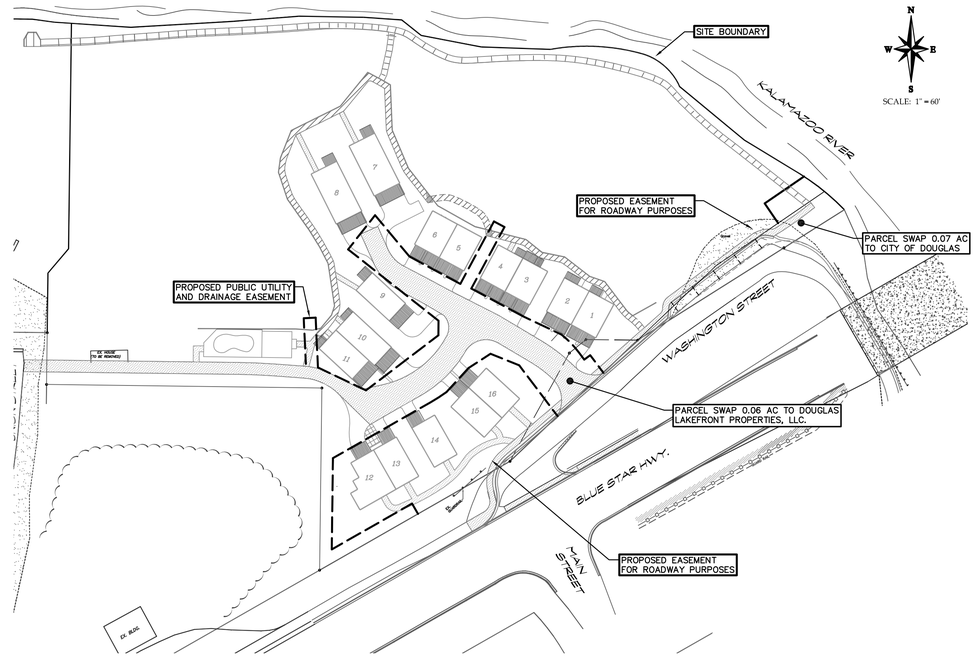


SECTION A-A

MDOT TYPE F-4 MODIFIED (FLOW ONLY)

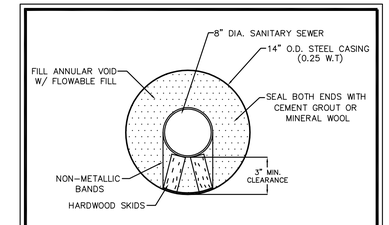
24" CONCRETE CURB AND GUTTER DETAIL

N.T.S.



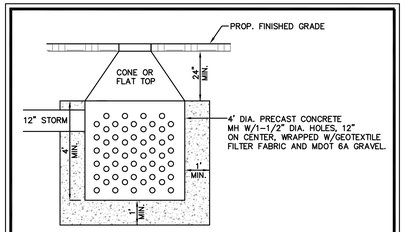
EASEMENT DETAIL

SCALE: 1" = 60'



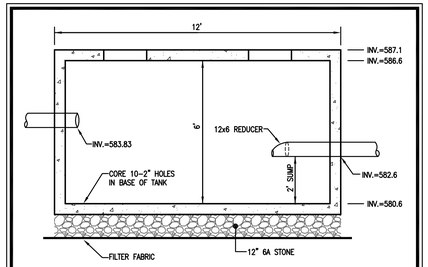
BORE & JACK DETAIL

N.T.S.



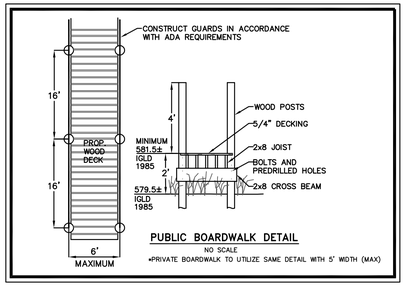
LEACH BASIN DETAIL

N.T.S.



SEDIMENT TANK DETAIL

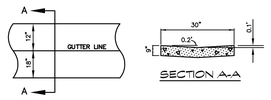
N.T.S.



PUBLIC BOARDWALK DETAIL

NO SCALE

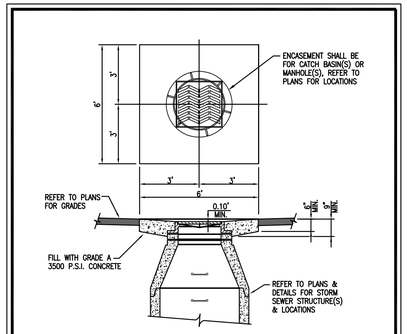
*PRIVATE BOARDWALK TO UTILIZE SAME DETAIL WITH 5' WIDTH (MAX)



SECTION A-A

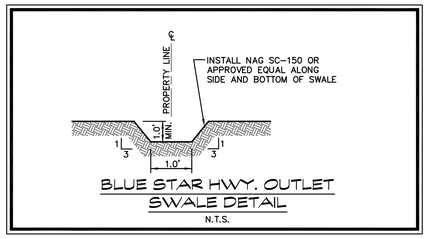
30" CONCRETE GUTTER PAN

N.T.S.



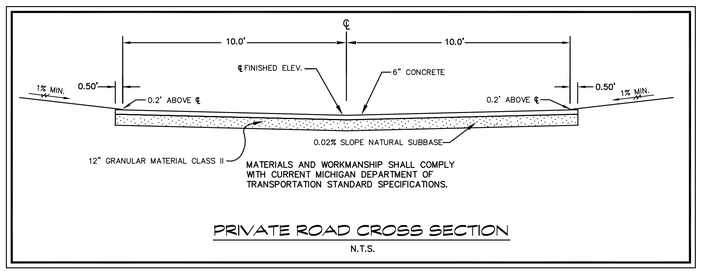
UTILITY STRUCTURE IN PAVEMENT CONCRETE BOXOUT

N.T.S.



BLUE STAR HWY. OUTLET SWALE DETAIL

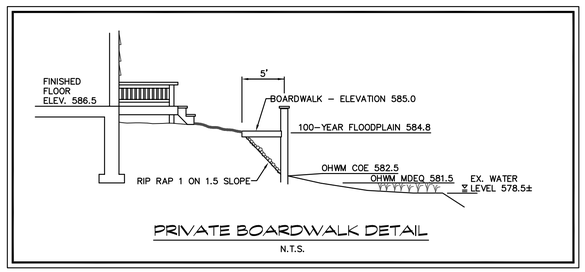
N.T.S.



MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

PRIVATE ROAD CROSS SECTION

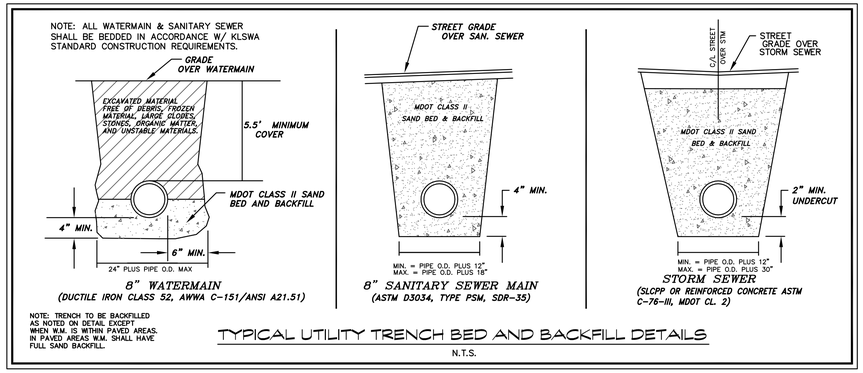
N.T.S.



PRIVATE BOARDWALK DETAIL

N.T.S.

NOTE: ALL WATERMAIN & SANITARY SEWER SHALL BE BEDDED IN ACCORDANCE W/ KLSWA STANDARD CONSTRUCTION REQUIREMENTS.



8" WATERMAIN
(DUCTILE IRON CLASS 52, AWWA C-151/ANSI A21.51)

8" SANITARY SEWER MAIN
(ASTM D3034, TYPE PSM, SDR-35)

STORM SEWER
(SLCPP OR REINFORCED CONCRETE ASTM C-76-III, MDOT CL. 2)

NOTE: TRENCH TO BE BACKFILLED AS NOTED ON DETAIL EXCEPT WHEN W.M. IS WITHIN PAVED AREAS. IN PAVED AREAS W.M. SHALL HAVE FULL SAND BACKFILL.

TYPICAL UTILITY TRENCH BED AND BACKFILL DETAILS

N.T.S.

NEDERVELD

www.nederveld.com
1-800-222-1868

GRAND RAPIDS
217 Grandville Ave., Suite 302
Grand Rapids, MI 49503
PHONE: (616) 575-5190

HOLLAND
347 Hoover Boulevard
Holland, MI 49423
PHONE: (616) 393-0449

ANN ARBOR
920 N. Main St.
Ann Arbor, MI 48104
PHONE: (734) 929-6963

Soil Erosion / Sedimentation Control and Grading Plan for:

SWING BRIDGE

PART OF THE NE 1/4 OF SECTION 16, T3N, R16W,
CITY OF THE VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN

DOUGLAS LAKEFRONT PROPERTIES, LLC

ATTN: Thomas Scott

1154 West VW Avenue
Schoolcraft, MI 49087
Phone # (269) 679-4766

checked	date	no.	comment	date
BDD	09/08/09	1	REVISED PER KLSWA	08/31/09
BDD	10/22/09	2	ALLEGAN COUNTY DRAIN COMMISSION	10/14/09
BDD	11/12/09	3	ALLEGAN COUNTY DRAIN COMMISSION	11/04/09
BDD	12/17/09	4	ALLEGAN COUNTY DRAIN COMMISSION	12/02/09
BDD	01/26/10	5	CITY ENGINEER	01/19/10
BDD	02/02/10	6	CITY ENGINEER	02/02/10
BDD	02/11/10	7	CITY ENGINEER	02/11/10
checked by: tmp	date: mp/mp/mp	8	drawn by: wvs	date: wvs/mp/mp

project no.: 06200300

DET1.7

sheet no.: 4 OF 4

© 2008 Nederveld, Inc.

06200300001 WS 03/24/11 16:19