MAD AUGUST 2014

PROJECT ID: 1009-13-03
WITH: N/A

COUNTY: DANE

ORDER OF SHEETS

TOTAL SHEETS = 26

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WORLD DAIRY WETLAND MITIGATION BANK SITE

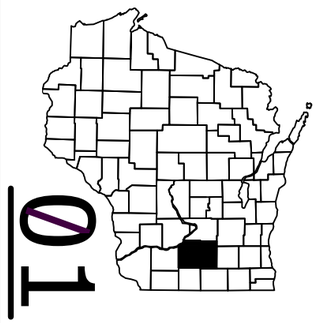
CITY OF MADISON OUTLOT 9 & 10

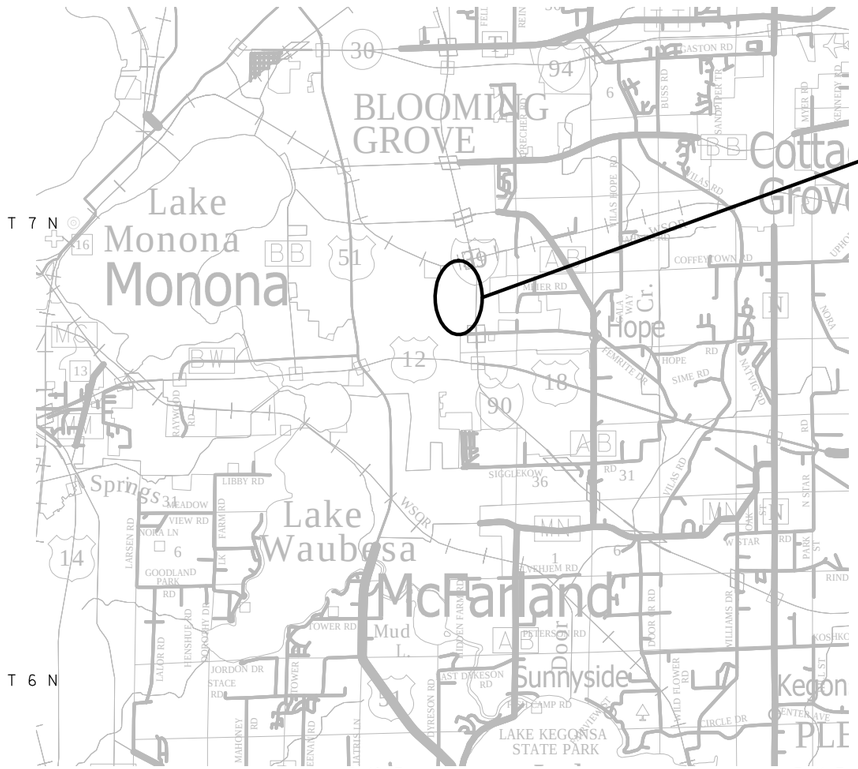
NON-HIGHWAY

DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-13-03	———	—

STATE PROJECT NUMBER
1009-13-03





LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

DESIGN DESIGNATION

A.A.D.T.	= N/A
A.A.D.T.	= N/A
D.H.V.	= N/A
D.D.	= N/A
T.	= N/A
DESIGN SPEED	= N/A
ESALS	= N/A

CONVENTIONAL SYMBOLS

PLAN	PROFILE	UTILITIES
CORPORATE LIMITS	GRADE LINE	ELECTRIC — E
PROPERTY LINE	ORIGINAL GROUND	FIBER OPTIC — FO
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such) — ROCK	GAS — G
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH — LABEL	SANITARY SEWER — SAN
EXISTING RIGHT OF WAY	GRADE ELEVATION — 95.36	STORM SEWER — SS
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)	TELEPHONE — T
SLOPE INTERCEPT		WATER — W
REFERENCE LINE		UTILITY PEDESTAL
EXISTING CULVERT		POWER POLE
PROPOSED CULVERT (Box or Pipe)		TELEPHONE POLE
COMBUSTIBLE FLUIDS — CAUTION		
MARSH AREA		
WOODED OR SHRUB AREA		

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (1983), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ORIGINAL PLANS PREPARED BY

Stantec

WISCONSIN
ERIC J. MAKI 38084 SLINGER, WI
4-29-14
PROFESSIONAL ENGINEER

4-29-14 DATE

Eric J Maki SIGNATURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer STANTEC
Project Manager JENNIFER GRIMES
Regional Examiner
Regional Supervisor JOHN STEINER

APPROVED FOR THE DEPARTMENT
DATE: 9/30/14 John J. Steiner (Signature)

E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189G001.DWG PLOT DATE : 5/5/2014 10:08 AM PLOT BY : MAKI, ERIC PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ALL TRENCHING LOCATIONS AND OUTFALL END PLUG INSTALLATION LOCATIONS WILL BE STAKED WITH LATHE BY OTHERS PRIOR TO THE START OF CONSTRUCTION.

ALL MATERIALS FOR VALVES, PLUGS, AND CAPS WILL BE PROVIDED TO THE CONTRACTOR.

ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS WILL HAVE A TEMPORARY COVER CROP PLACED BY OTHERS IMMEDIATELY FOLLOWING COMPLETION OF SOIL PLACEMENT.

TEMPORARY STORAGE OF EQUIPMENT AND MATERIALS IN EXISTING WETLANDS IS NOT PERMITTED UNLESS AUTHORIZED BY THE ENGINEER.

ACCESS TO THE SITE IS PERMITTED ONLY AT THE SITE ACCESS POINTS SHOWN ON THE PLANS. EXACT LOCATION OF THE SITE ACCESS POINTS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

UTILITIES EXIST WITHIN AND ADJACENT TO THE PROJECT AND NOT ANTICIPATED TO BE AFFECTED BY THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIGGER'S HOTLINE AND ANY UTILITIES IN THE AREA THAT ARE NOT MEMBERS OF DIGGER'S HOTLINE TO HAVE ALL FACILITIES LOCATED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

ALL EROSION CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND ARE TO BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

WISDOT CONTACT

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. JENNIFER GRIMES
PROJECT MANAGER
SW REGION - EDGERTON
111 INTERSTATE BLVD.
EDGERTON, WI 53534
PHONE: (608) 884-1147
JENNIFER.GRIMES@DOT.WI.GOV

RAILROAD CONTACT

WISCONSIN & SOUTHERN RAILROAD LLC (WSOR)
MR. CHRIS JACOBSON
1890 E JOHNSON ST.
MADISON, WI 53704
PHONE: (414) 750-6427

UTILITY CONTACTS

AMERICAN TRANSMISSION COMPANY LLC (ATC)
MR. MATT ERNST
SR. REAL ESTATE REPRESENTATIVE
P.O. BOX 6113
DE PERE, WI 54115
PHONE: (920) 338-6573
MERNST@ATCLLC.COM

ATC FIELD CONTACT
MR. DOUG VOSBERG
2489 RINDER ROAD
COTTAGE GROVE, WI 53527
PHONE: (6080 877-7560
CELL: (608) 438-7650
DVOSBERG@ATCLLC.COM

MADISON METROPOLITAN SEWAGE DISTRICT (MMSD)
MR. BRUCE BORELLI
1610 MOORLAND ROAD
MADISON, WI 53713
PHONE: (608) 222-1201

MMSD FIELD CONTACT
MR. RAY SCHNEIDER
1610 MOORLAND ROAD
MADISON, WI 53713
PHONE: (608) 222-1201 EXT. 259
CELL: (608) 347-3628
RAYS@MADSEWER.ORG

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MR. ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3301
ERIC.HEGGELUND@WISCONSIN.GOV

CONSULTANT CONTACT

STANTEC CONSULTING SERVICES
MS. SARAH KRASZEWSKI
209 COMMERCE PARKWAY
P.O. BOX 128
COTTAGE GROVE, WI 53527
PHONE: (608) 839-2039
SARAH.KRASZEWSKI@STANTEC.COM

CITY OF MADISON DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
MS. JANET DAILEY, PE
210 MARTIN LUTHER KING JR BLVD
ROOM 115
MADISON, WI 53703
PHONE: (608) 261-9688
JDAILEY@CITYOFMADISON.COM

LEGEND

- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD, CITY OF MADISON)
- EXISTING MONITORING WELL
- EXISTING DRAIN TILE
- EXISTING SURVEY DATA POINT
- A02 PROPOSED DRAIN TILE BACKWATER VALVE (SEE CONST. DETAIL)
- A03 PROPOSED INLINE PLUG SECTION (SEE CONST. DETAIL)
- X20A PROPOSED OUTFALL END PLUG (SEE CONST. DETAIL)
- PROPOSED SILT FENCE
- PROPOSED TRACKING PAD
- PROPOSED TURBIDITY BARRIER
- PROPOSED INLET PROTECTION
- A MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY

N

0 400 800

Horizontal Scale In Feet

WORLD DAIRY DRIVE

FEN OAK

GRAHAM PLACE

PRIVATE STORMWATER DRAINAGE

PRIVATE STORMWATER DRAINAGE

MMSD

ATC

WISCONSIN & SOUTHERN R.R.

ROAD WORK AHEAD W20-1

TRUCKS ENTERING & LEAVING W6-6A

FEMRITE DRIVE

END ROAD WORK G20-2A 48" X 24"

SITE ACCESS TRACKING PAD REQUIRED

TRUCKS ENTERING & LEAVING W6-6A

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

CITY OF MADISON

PROPOSED CULVERT PIPE REINFORCED CONCRETE CLASS IV 72-INCH (C-13-3096) (SEE EROSION CONTROL PLAN SHEET FOR ADDITIONAL INFORMATION)

MMSD

ATC

CITY OF MADISON

I39/90

A B C D E F G H I J

NOTE:

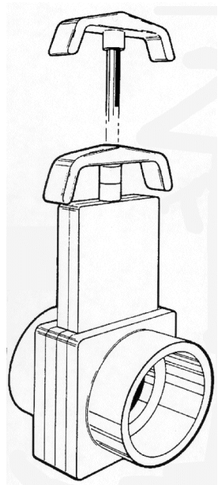
SEE SDD: "TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD" FOR SIGN PLACEMENT DETAILS.

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION BANK SITE OVERVIEW	SHEET 3 E

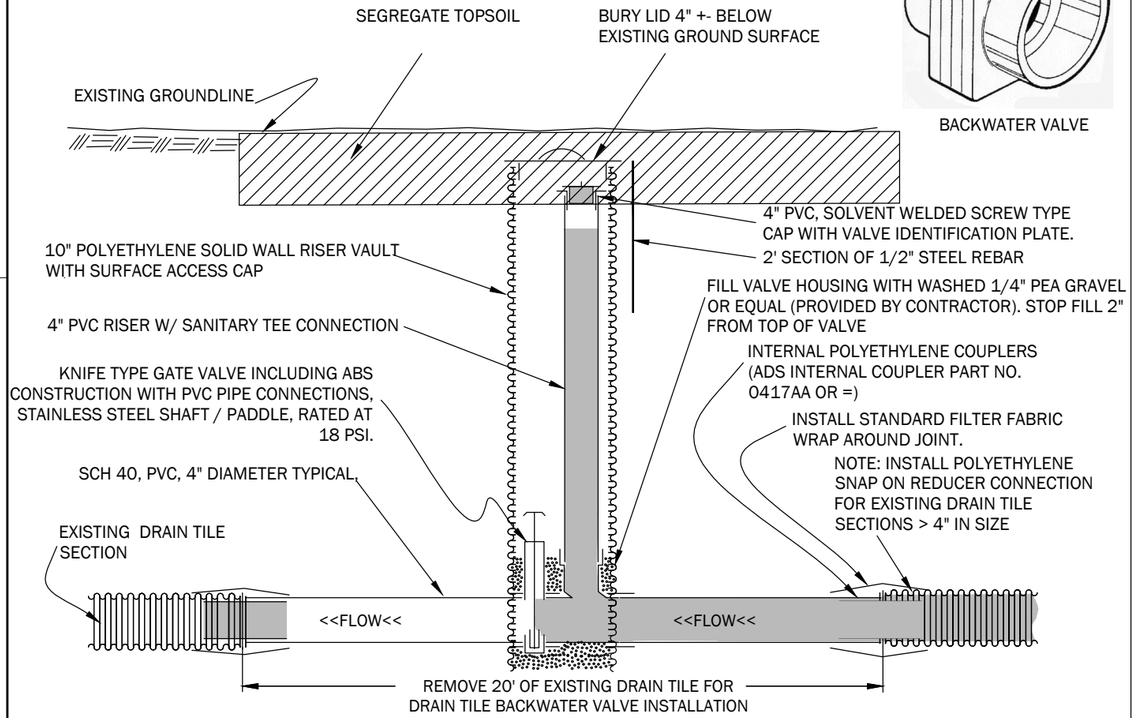
2

CONSTRUCTION SEQUENCE:

1. 130 DRAIN TILE BACKWATER VALVES WILL BE MARKED IN THE FIELD BY ENGINEER IN LOCATIONS SPECIFIED AS (G10) ON THE PLAN SHEETS.
2. SEGREGATE TOPSOIL (APPROXIMATELY UPPER 12") FROM SUBSOIL WHEN EXCAVATING TRENCH. EXCAVATE TRENCH AND REMOVE 20 FEET OF EXISTING DRAIN TILE.
3. INSTALL BACKWATER VALVE PACKAGE (PROVIDED TO CONTRACTOR).
4. OBTAIN ENGINEER APPROVAL PRIOR TO BACKFILL.
5. INSTALL REBAR (PROVIDED TO CONTRACTOR) FOR FUTURE LOCATION BY METAL DETECTOR.
6. BACKFILL AND COMPACT TRENCH WITH SUBSOIL, FOLLOWED BY TOPSOIL. SMOOTH TO GRADE (SEEDING BY OTHERS)



BACKWATER VALVE

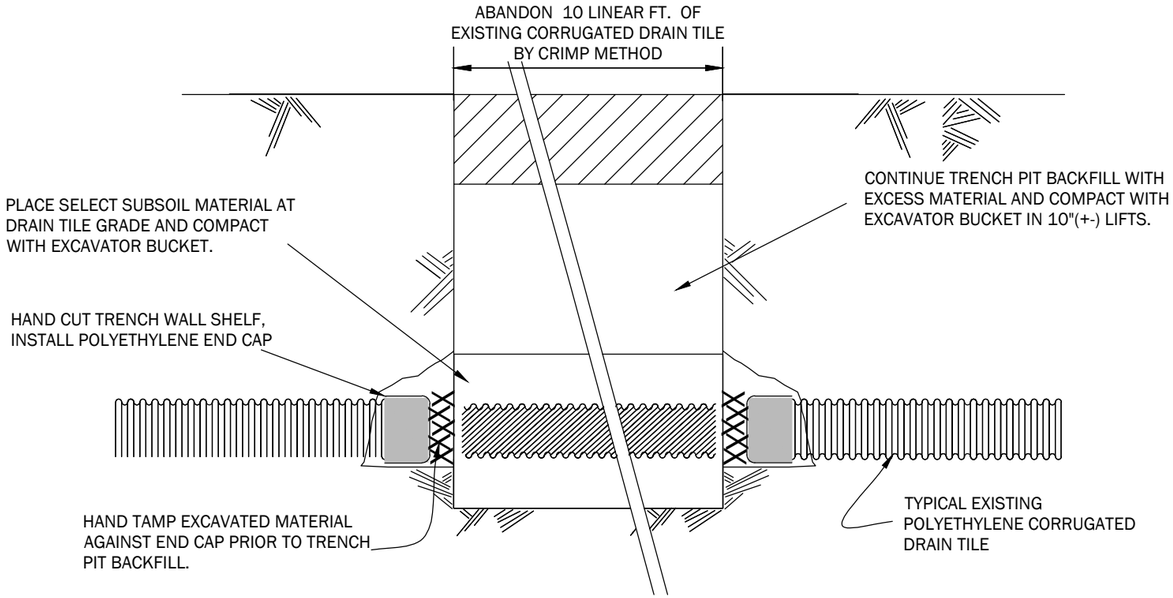


DRAIN TILE BACKWATER VALVE INSTALLATION

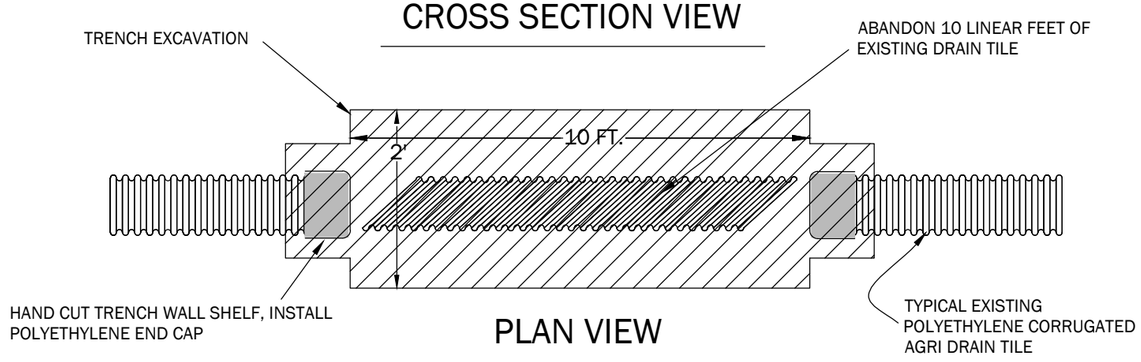
2

CONSTRUCTION SEQUENCE:

1. 77 INLINE PLUG SECTIONS WILL BE MARKED IN THE FIELD BY ENGINEER IN LOCATIONS SPECIFIED AS (G07) ON THE PLAN SHEETS.
2. SEGREGATE TOPSOIL (APPROXIMATELY UPPER 12") FROM SUBSOIL WHEN EXCAVATING TRENCH.
3. EXCAVATE TRENCH AND ABANDON 10 LINEAR FEET OF EXISTING POLYETHYLENE DRAIN TILE BY PENETRATING COMPLETELY THROUGH THE TILE LINE WITH THE CUTTING EDGE OF AN EXCAVATOR AT A MINIMUM INTERVAL SPACING OF 24".
4. INSTALL 2 POLYETHYLENE END CAPS (PROVIDED TO CONTRACTOR) TO INTACT DRAIN TILE AS SHOWN ON DETAIL.
5. BACKFILL AND COMPACT TRENCH WITH SUBSOIL, FOLLOWED BY TOPSOIL. SMOOTH TO GRADE (SEEDING BY OTHERS).



CROSS SECTION VIEW



PLAN VIEW

INLINE PLUG SECTION INSTALLATION

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION CONSTRUCTION DETAILS	SHEET 4 E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189C008.DWG PLOT DATE : 4/30/2014 8:48 AM PLOT BY : MAKI, ERIC PLOT NAME : ---------- PLOT SCALE : ******** WISDOT/CADDS SHEET 42

2

CONSTRUCTION SEQUENCE:

1. INSTALL 29 OUTFALL END PLUGS WITH PROTECTION CAPS (PROVIDED TO CONTRACTOR) IN LOCATIONS SPECIFIED AS ⊗ ON THE PLAN SHEETS AND AS STAKED BY THE ENGINEER IN THE FIELD.

END PLUG

OUTFALL END PLUG INSTALLATION

LEGEND

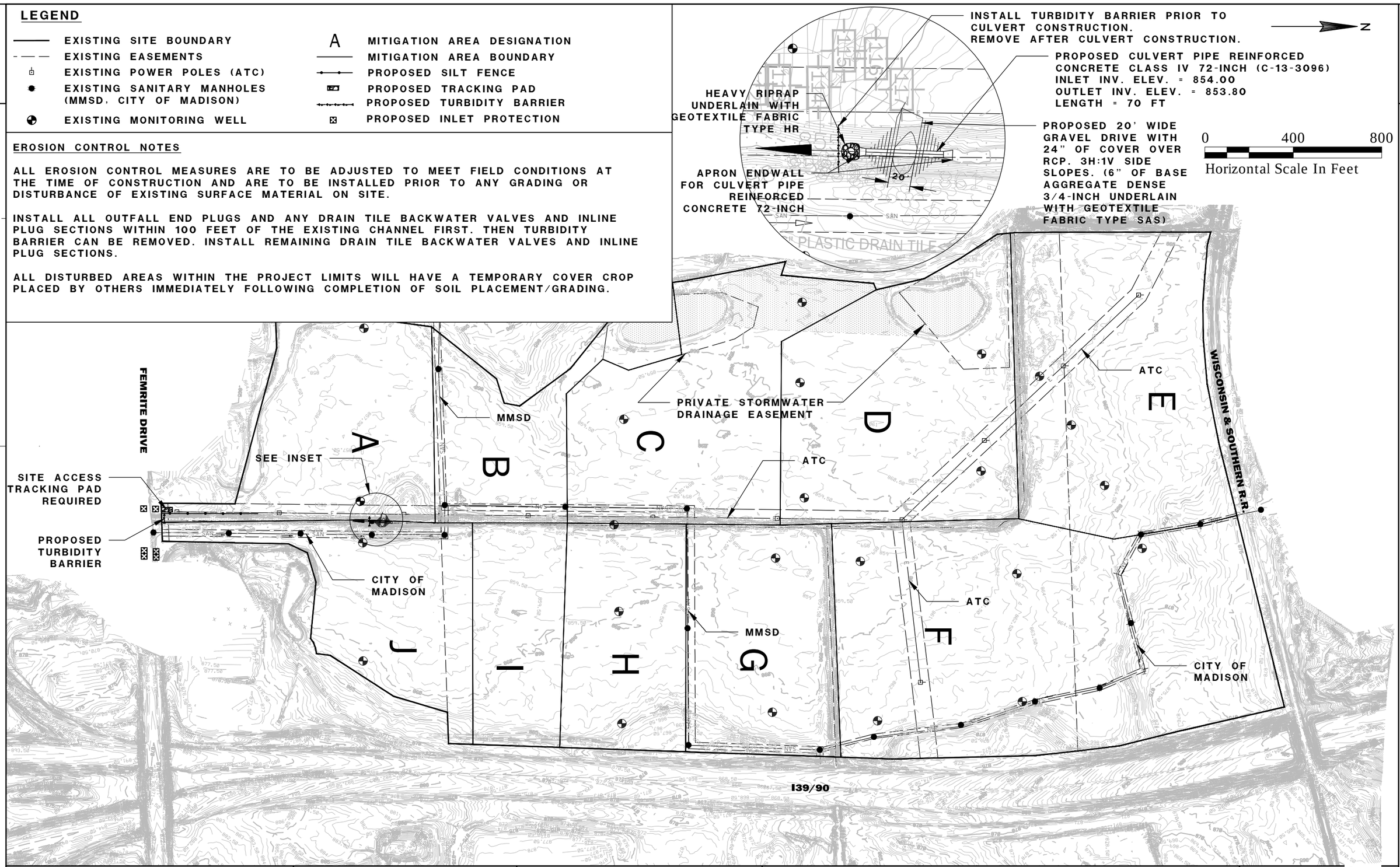
- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD, CITY OF MADISON)
- EXISTING MONITORING WELL
- A — MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY
- PROPOSED SILT FENCE
- PROPOSED TRACKING PAD
- PROPOSED TURBIDITY BARRIER
- PROPOSED INLET PROTECTION

EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND ARE TO BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON SITE.

INSTALL ALL OUTFALL END PLUGS AND ANY DRAIN TILE BACKWATER VALVES AND INLINE PLUG SECTIONS WITHIN 100 FEET OF THE EXISTING CHANNEL FIRST. THEN TURBIDITY BARRIER CAN BE REMOVED. INSTALL REMAINING DRAIN TILE BACKWATER VALVES AND INLINE PLUG SECTIONS.

ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS WILL HAVE A TEMPORARY COVER CROP PLACED BY OTHERS IMMEDIATELY FOLLOWING COMPLETION OF SOIL PLACEMENT/GRADING.



PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION EROSION CONTROL	SHEET 6 E

LEGEND

- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD, CITY OF MADISON)
- EXISTING MONITORING WELL
- EXISTING DRAIN TILE
- 07 EXISTING SURVEY DATA POINT
- A02 PROPOSED DRAIN TILE BACKWATER VALVE (SEE CONST. DETAIL)
- A03 PROPOSED INLINE PLUG SECTION (SEE CONST. DETAIL)
- X20A PROPOSED OUTFALL END PLUG (SEE CONST. DETAIL)
- PROPOSED SILT FENCE
- PROPOSED TRACKING PAD
- PROPOSED TURBIDITY BARRIER
- A MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY

N

0 150 300

Horizontal Scale In Feet

MMSD

ATC

ACCESS TO FEMRITE DRIVE

CITY OF MADISON

PROPOSED TURBIDITY BARRIER

PROPOSED TURBIDITY BARRIER

PROPOSED CULVERT PIPE
REINFORCED CONCRETE CLASS IV
72-INCH
INLET INV. ELEV. = 854.00
OUTLET INV. ELEV. = 853.80
LENGTH = 70 FT

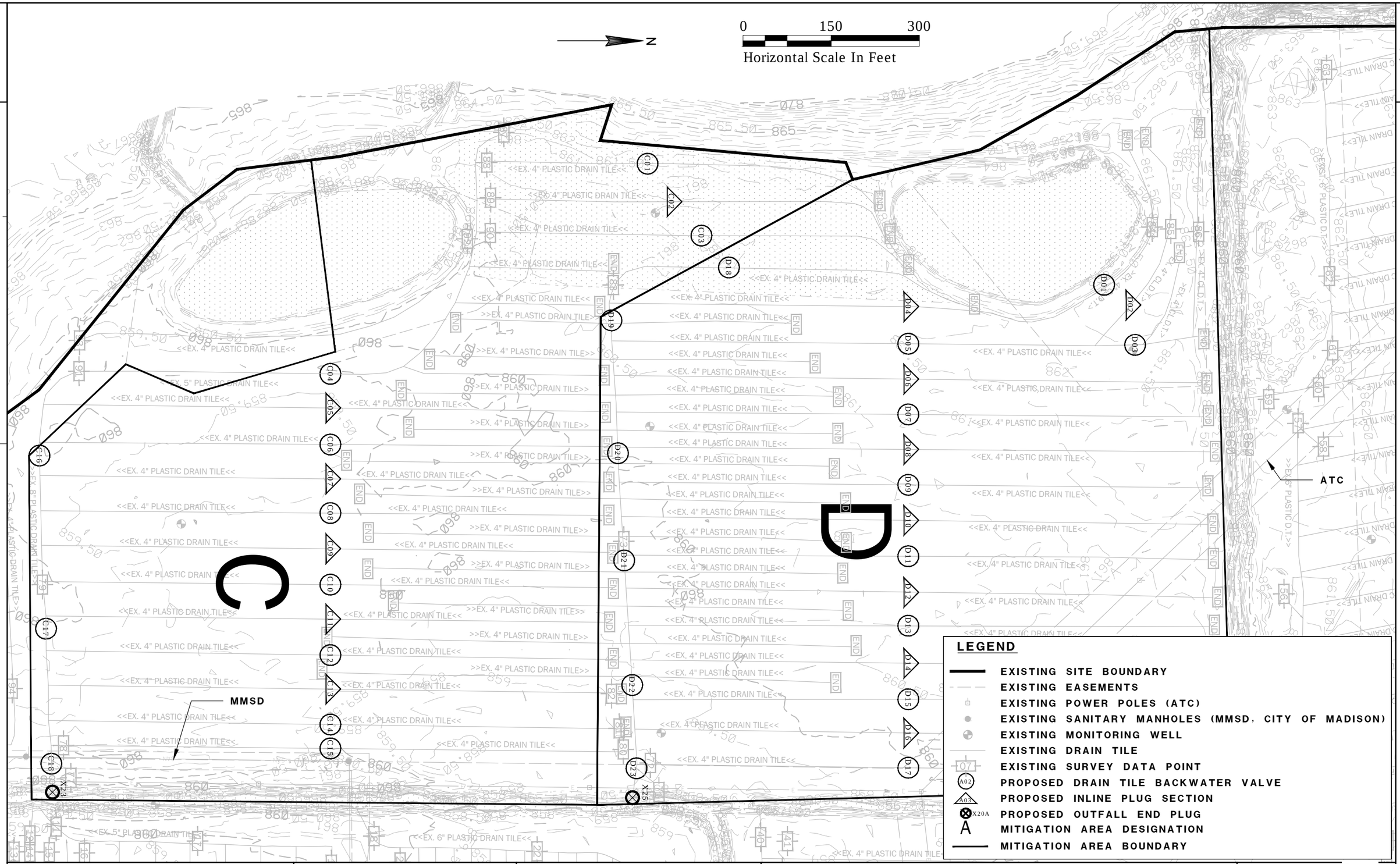
MMSD

ATC

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION AREAS A & B	SHEET 7 E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189C003.DWG PLOT DATE : 4/29/2014 4:04 PM PLOT BY : MAKI, ERIC PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 42



PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION AREAS C & D	SHEET 8 E

E

CITY OF MADISON

ATC

E01 E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16 E17 E18 E19 E20 E21 E22 E23 E24 E25 E26 E27

X27 X28

<<EXIST. 6" PLASTIC D.T.<<

>>EXIST. 6" PLASTIC D.T.>>

>>EX. 4" PLASTIC DRAIN TILE>>

LEGEND

- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD, CITY OF MADISON)
- EXISTING MONITORING WELL
- EXISTING DRAIN TILE
- 107 EXISTING SURVEY DATA POINT
- A02 PROPOSED DRAIN TILE BACKWATER VALVE
- A03 PROPOSED INLINE PLUG SECTION
- X20A PROPOSED OUTFALL END PLUG
- A MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY

N

0 100 200

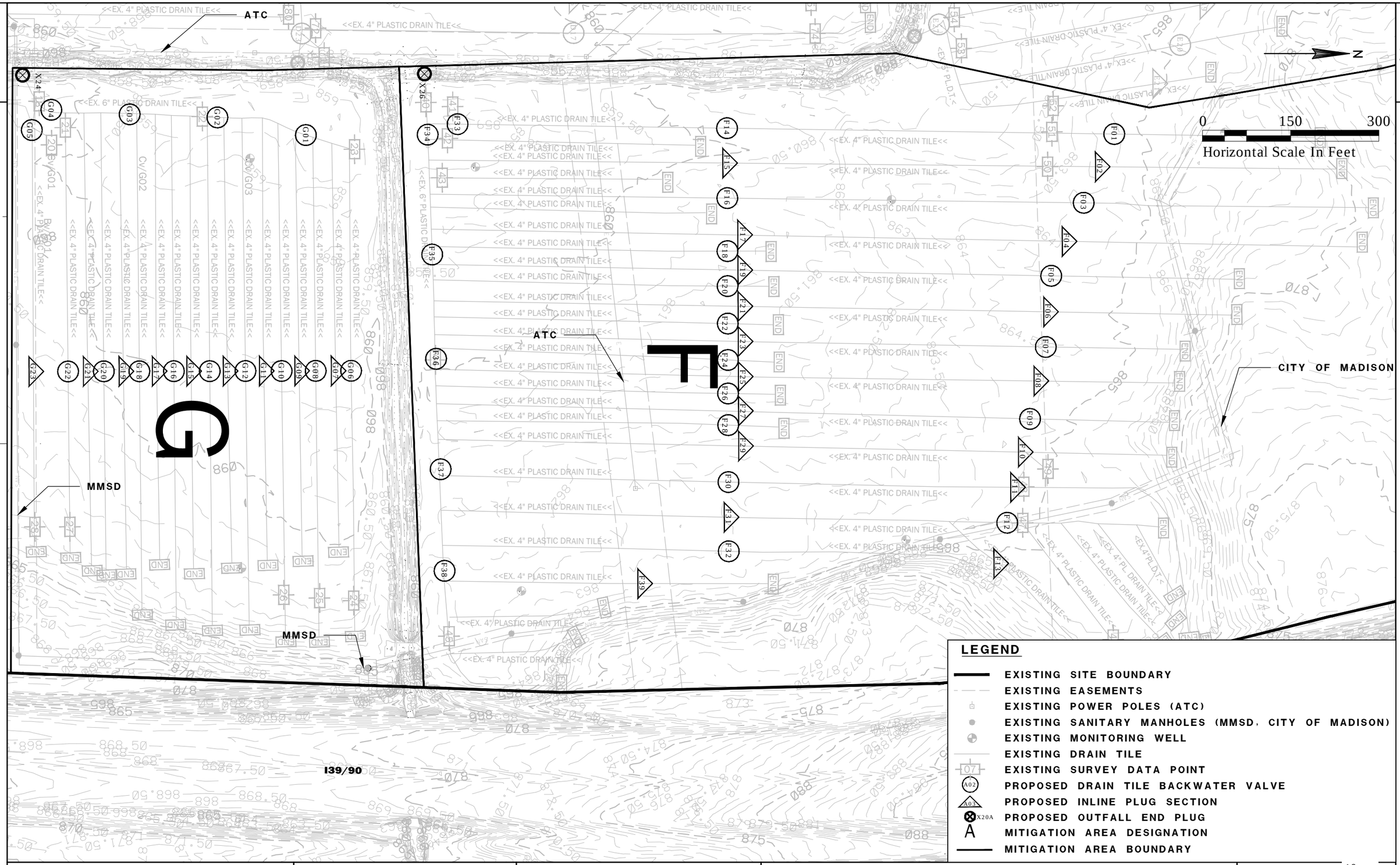
Horizontal Scale In Feet

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION AREA E	SHEET 9 E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189C005.DWG PLOT DATE : 4/29/2014 4:06 PM PLOT BY : MAKI, ERIC PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD, CITY OF MADISON)
- EXISTING MONITORING WELL
- EXISTING DRAIN TILE
- EXISTING SURVEY DATA POINT
- PROPOSED DRAIN TILE BACKWATER VALVE
- PROPOSED INLINE PLUG SECTION
- PROPOSED OUTFALL END PLUG
- MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION AREAS F & G	SHEET 10 E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189C006.DWG PLOT DATE : 4/29/2014 4:06 PM PLOT BY : MAKI, ERIC PLOT NAME : _____ PLOT SCALE : ********

WISDOT/CADDS SHEET 42

PROPOSED CULVERT PIPE REINFORCED CONCRETE CLASS IV 72-INCH (SEE EROSION CONTROL PLAN SHEET FOR ADDITIONAL INFORMATION)

ATC

MMSD

CITY OF MADISON

I39/90

N

0 150 300

Horizontal Scale In Feet

LEGEND

- EXISTING SITE BOUNDARY
- EXISTING EASEMENTS
- EXISTING POWER POLES (ATC)
- EXISTING SANITARY MANHOLES (MMSD)
- EXISTING MONITORING WELL
- EXISTING DRAIN TILE
- EXISTING SURVEY DATA POINT
- PROPOSED DRAIN TILE BACKWATER VALVE
- PROPOSED INLINE PLUG SECTION
- PROPOSED OUTFALL END PLUG
- MITIGATION AREA DESIGNATION
- MITIGATION AREA BOUNDARY

PROJECT NO: 1009-13-03	HWY: NON-HIGHWAY	COUNTY: DANE	PLAN: WORLD DAIRY WETLAND MITIGATION AREAS H, I & J	SHEET 11 E

FILE NAME : V:\1937\ACTIVE\193700189\03_DATA\USER_DEFINED\CAD\DWG\193700189C007.DWG PLOT DATE : 4/29/2014 4:08 PM PLOT BY : MAKI, ERIC PLOT NAME : ---------- PLOT SCALE : ********

DESCRIPTION CHART : 01 SURVEY DATA POINT LOCATIONS

DATA POINT	SZ.	TYPE / QUALITY	GROUND ELEV.	DEPTH HUB/INV.	TILE INVERT ELEV.	FIELD NOTES:
1	6"	PLASTIC/GOOD	858.64-	50" / 4.16	854.48	ACTIVE FLOW AND CAPACITY
2	5"	PLASTIC/GOOD	858.17-	36" / 3.00	855.17	ACTIVE FLOW AND CAPACITY
3	4"	PLASTIC/GOOD	857.99-	35" / 2.91	855.08	ACTIVE FLOW AND CAPACITY
4	4"	PLASTIC/GOOD	857-98-	37" / 3.08	854.90	ACTIVE FLOW AND CAPACITY
5	6"	PLASTIC/GOOD	859.46-	52" / 4.33	855.13	ACTIVE FLOW AND CAPACITY
6	6"	PLASTIC/GOOD	858.63-	44" / 3.66	854.97	ACTIVE FLOW AND CAPACITY
7	4"	PLASTIC/GOOD	859.23-	38" / 3.16	856.07	ACTIVE FLOW AND CAPACITY
8	5"	PLASTIC/GOOD	858.65-	34" / 2.83	855.82	ACTIVE FLOW AND CAPACITY
9	4"	PLASTIC/GOOD	858.31-	33" / 2.75	855.56	ACTIVE FLOW AND CAPACITY
10	5"	PLASTIC/GOOD	858.56-	40" / 3.33	855.23	ACTIVE FLOW AND CAPACITY
11	12"	PL/N-12/GOOD	859.40-	52" / 4.33	855.07	ACTIVE FLOW AND CAPACITY
12	6"	PLASTIC/GOOD	859.95-	56" / 4.66	855.27	ACTIVE FLOW AND CAPACITY
13	4"	PLASTIC/GOOD	858.88-	33" / 2.75	856.13	ACTIVE FLOW AND CAPACITY
14	12"	PL/N-12/GOOD	858.97-	46" / 3.83	855.14	ACTIVE FLOW AND CAPACITY
15	4"	PLASTIC/GOOD	859.10-	37" / 3.08	856.02	ACTIVE FLOW AND CAPACITY
16	4"	PLASTIC/GOOD	859.34-	44" / 3.66	855.68	ACTIVE FLOW AND CAPACITY
17	5"	PLASTIC/GOOD	859.77-	49" / 4.08	855.69	ACTIVE FLOW AND CAPACITY
18	6"	PLASTIC/GOOD	860.60-	64" / 5.33	855.27	ACTIVE FLOW AND CAPACITY
19	4"	PLASTIC/GOOD	860.12-	46" / 3.83	856.29	ACTIVE FLOW AND CAPACITY
20	5"	PLASTIC/GOOD	860.31-	55" / 4.58	855.73	ACTIVE FLOW AND CAPACITY
21	4"	PLASTIC/GOOD	860.17-	52" / 4.33	855.84	ACTIVE FLOW AND CAPACITY
22	6"	PLASTIC/GOOD	858.96-	41" / 3.41	855.55	ACTIVE FLOW AND CAPACITY
23	6"	PLASTIC/GOOD	858.96-	41" / 3.41	855.55	ACTIVE FLOW AND CAPACITY
24	4"	PLASTIC/GOOD	861.05-	45" / 3.75	857.30	ACTIVE FLOW AND CAPACITY
25	4"	PLASTIC/GOOD	861.00-	43" / 3.58	857.42	ACTIVE FLOW AND CAPACITY
26	4"	PLASTIC/GOOD	860.84-	43" / 3.58	857.26	ACTIVE FLOW AND CAPACITY
27	4"	PLASTIC/GOOD	861.32-	49" / 4.08	857.24	ACTIVE FLOW AND CAPACITY
28	4"	PLASTIC/GOOD	862.45-	49" / 4.08	858.37	ACTIVE FLOW AND CAPACITY
29	4"	PLASTIC/GOOD	862.82-	49" / 4.08	858.74	ACTIVE FLOW AND CAPACITY
30	4"	PLASTIC/GOOD	861.89-	40" / 3.33	858.56	ACTIVE FLOW AND CAPACITY
31	4"	PLASTIC/GOOD	862.23-	44" / 3.66	858.57	ACTIVE FLOW AND CAPACITY
32	12"	PL/N-12/GOOD	862.18-	51" / 4.25	857.93	ACTIVE FLOW AND CAPACITY
33	4"	PLASTIC/GOOD	861.93-	48" / 4.00	857.93	ACTIVE FLOW AND CAPACITY
34	4"	PLASTIC/GOOD	860.84-	50" / 4.16	856.68	ACTIVE FLOW AND CAPACITY
35	4"	PLASTIC/GOOD	860.03-	37" / 3.08	856.95	ACTIVE FLOW AND CAPACITY
36	4"	PLASTIC/GOOD	859.42-	31" / 2.58	856.84	ACTIVE FLOW AND CAPACITY
37	4"	PLASTIC/GOOD	861.97-	46" / 3.83	858.14	ACTIVE FLOW AND CAPACITY
38	4"	PLASTIC/GOOD	862.33-	44" / 3.66	858.67	ACTIVE FLOW AND CAPACITY
39	4"	PLASTIC/GOOD	862.37-	50" / 4.16	858.21	ACTIVE FLOW AND CAPACITY
40	8"	PLASTIC/GOOD	858.74-	38" / 3.16	855.58	ACTIVE FLOW AND CAPACITY
41	5"	PLASTIC/GOOD	859.24-	39" / 3.25	855.99	ACTIVE FLOW AND CAPACITY
42	5"	PLASTIC/GOOD	859.11-	35" / 2.91	856.20	ACTIVE FLOW AND CAPACITY
43	4"	PLASTIC/GOOD	859.56-	34" / 2.83	856.73	ACTIVE FLOW AND CAPACITY
44	6"	PLASTIC/GOOD	860.17-	47" / 3.91	856.26	ACTIVE FLOW AND CAPACITY
45	6"	PLASTIC/GOOD	862.74-	49" / 4.08	858.66	ACTIVE FLOW AND CAPACITY
46	4"	PLASTIC/GOOD	865.24	44" / 3.66	861.58	ACTIVE FLOW AND CAPACITY
47	5"	PLASTIC/GOOD	864.52-	50" / 4.16	860.36	ACTIVE FLOW AND CAPACITY
48	5"	PLASTIC/GOOD	864.36-	50" / 4.16	860.20	ACTIVE FLOW AND CAPACITY
49	5"	PLASTIC/GOOD	864.27-	51" / 4.25	860.02	ACTIVE FLOW AND CAPACITY
50	4"	PLASTIC/GOOD	862.78-	37" / 3.08	859.70	ACTIVE FLOW AND CAPACITY
51	4"	PLASTIC/GOOD	863.02-	43" / 3.58	859.44	ACTIVE FLOW AND CAPACITY
52	5"	PLASTIC/GOOD	862.64-	47" / 3.91	858.73	ACTIVE FLOW AND CAPACITY
53	6"	PLASTIC/GOOD	861.38-	50" / 4.16	857.22	ACTIVE FLOW AND CAPACITY
54	4"	PLASTIC/GOOD	861.50-	46" / 3.83	857.67	ACTIVE FLOW AND CAPACITY
55	4"	PLASTIC/GOOD	861.78-	47" / 3.91	857.87	ACTIVE FLOW AND CAPACITY
56	6"	PLASTIC/GOOD	861.41-	47" / 3.91	857.50	ACTIVE FLOW AND CAPACITY
57	5"	PLASTIC/GOOD	861.77-	48" / 4.00	857.77	ACTIVE FLOW AND CAPACITY
58	5"	PLASTIC/GOOD	862.00-	47" / 3.91	858.09	ACTIVE FLOW AND CAPACITY
59	6"	PLASTIC/GOOD	861.72-	50" / 4.16	857.56	ACTIVE FLOW AND CAPACITY
60	4"	PLASTIC/GOOD	861.28-	41" / 3.41	857.87	ACTIVE FLOW AND CAPACITY
61	4"	PLASTIC/GOOD	861.27-	35" / 2.91	858.36	ACTIVE FLOW AND CAPACITY
62	6"	PLASTIC/GOOD	862.45-	54" / 4.50	857.95	ACTIVE FLOW AND CAPACITY
63	5"	PLASTIC/GOOD	863.20-	43" / 3.58	859.62	ACTIVE FLOW AND CAPACITY
64	6"	PLASTIC/GOOD	865-81-	58" / 4.83	861.01	ACTIVE FLOW AND CAPACITY
65	4"	PLASTIC/GOOD	865.50-	40" / 3.33	862.17	ACTIVE FLOW AND CAPACITY
66	6"	PLASTIC/GOOD	865.36-	46" / 3.83	861.57	ACTIVE FLOW AND CAPACITY
67	4"	PLASTIC/GOOD	865.96-	37" / 3.08	862.88	ACTIVE FLOW AND CAPACITY

DESCRIPTION CHART : 01 SURVEY DATA POINT LOCATIONS

DATA POINT	SZ.	TYPE / QUALITY	GROUND ELEV.	DEPTH HUB/INV.	TILE INVERT ELEV.	FIELD NOTES:
68	4"	PLASTIC/GOOD	866.62-	40" / 3.33	863.29	ACTIVE FLOW AND CAPACITY
69	4"	PLASTIC/GOOD	868.24-	46" / 3.83	864.41	ACTIVE FLOW AND CAPACITY
70	4"	PLASTIC/GOOD	868.12-	59" / 4.91	863.21	ACTIVE FLOW AND CAPACITY
71	8"	PLASTIC/GOOD	858.73-	43" / 3.58	855.15	ACTIVE FLOW AND CAPACITY
72	4"	PLASTIC/GOOD	858.54-	33" / 2.75	855.76	ACTIVE FLOW AND CAPACITY
73	6"	PLASTIC/GOOD	859.41-	44" / 3.66	855.75	ACTIVE FLOW AND CAPACITY
74	4"	PLASTIC/GOOD	860.58-	39" / 3.25	857.33	ACTIVE FLOW AND CAPACITY
75	4"	PLASTIC/GOOD	860.67-	40" / 3.33	857.34	ACTIVE FLOW AND CAPACITY
76	4"	PLASTIC/GOOD	860.37-	34" / 2.83	857.54	ACTIVE FLOW AND CAPACITY
77	8"	PLASTIC/GOOD	859.81-	55" / 4.58	855.23	ACTIVE FLOW AND CAPACITY
78	4"	PLASTIC/GOOD	858.90-	39" / 3.25	855.65	ACTIVE FLOW AND CAPACITY
79	8"	PLASTIC/GOOD	860.23-	54" / 4.50	855.73	ACTIVE FLOW AND CAPACITY
80	4"	PLASTIC/GOOD	858.59-	24" / 2.00	856.59	ACTIVE FLOW AND CAPACITY
81	4"	PLASTIC/GOOD	858.90-	28" / 2.33	856.57	ACTIVE FLOW AND CAPACITY
82	4"	PLASTIC/GOOD	858.87-	27" / 2.25	856.62	ACTIVE FLOW AND CAPACITY
83	4"	PLASTIC/GOOD	860.66-	39" / 3.25	857.41	ACTIVE FLOW AND CAPACITY
84	4"	PLASTIC/GOOD	861.88-	39" / 3.25	858.63	ACTIVE FLOW AND CAPACITY
85	4"	PLASTIC/GOOD	861.13-	28" / 2.33	858.80	ACTIVE FLOW AND CAPACITY
86	4"	PLASTIC/GOOD	862.17-	38" / 3.16	859.01	ACTIVE FLOW AND CAPACITY
87	5"	PLASTIC/GOOD	861.75-	44" / 3.66	858.09	ACTIVE FLOW AND CAPACITY
88	5"	PLASTIC/GOOD	860.98-	35" / 2.91	858.07	ACTIVE FLOW AND CAPACITY
89	4"	PLASTIC/GOOD	860.53-	30" / 2.50	858.03	ACTIVE FLOW AND CAPACITY
90	4"	PLASTIC/GOOD	860.44-	32" / 2.66	857.78	ACTIVE FLOW AND CAPACITY
91	5"	PLASTIC/GOOD	860.05-	43" / 3.58	856.47	ACTIVE FLOW AND CAPACITY
92	4"	PLASTIC/GOOD	861.17-	41" / 3.41	857.76	ACTIVE FLOW AND CAPACITY
93	4"	PLASTIC/GOOD	860.04-	35" / 2.91	857.13	ACTIVE FLOW AND CAPACITY
94	4"	PLASTIC/GOOD	859.37-	34" / 2.83	856.54	ACTIVE FLOW AND CAPACITY
95	5"	PLASTIC/GOOD	859.27-	45" / 3.75	855.52	ACTIVE FLOW AND CAPACITY
96	6"	PLASTIC/GOOD	860.81-	67" / 5.58	855.23	ACTIVE FLOW AND CAPACITY
97	4"	PLASTIC/GOOD	858.66-	31" / 2.58	856.08	ACTIVE FLOW AND CAPACITY
98	4"	PLASTIC/GOOD	858.54-	31" / 2.58	855.96	ACTIVE FLOW AND CAPACITY
99	4"	PLASTIC/GOOD	859.24-	35" / 2.91	856.33	ACTIVE FLOW AND CAPACITY
100	4"	PLASTIC/GOOD	858.64-	46" / 3.83	854.81	ACTIVE FLOW AND CAPACITY
101	5"	PLASTIC/GOOD	858.62-	43" / 3.58	855.04	ACTIVE FLOW AND CAPACITY
102	4"	PLASTIC/GOOD	858.12-	40" / 3.33	854.79	ACTIVE FLOW AND CAPACITY
103	4"	PLASTIC/GOOD	857.80-	37" / 3.08	854.72	ACTIVE FLOW AND CAPACITY
104	4"	PLASTIC/GOOD	857.97-	39" / 3.25	854.72	ACTIVE FLOW AND CAPACITY
.105	4"	PLASTIC/GOOD	858.29-	44" / 3.66	854.63	ACTIVE FLOW AND CAPACITY
106	4"	PLASTIC/GOOD	858.73-	49" / 4.08	854.65	ACTIVE FLOW AND CAPACITY
107	6"	CLAY / FAIR	858.58-	33" / 2.75	855.83	ACTIVE FLOW AND CAPACITY
108	4"	PLASTIC/GOOD	858.13-	42" / 3.50	854.63	ACTIVE FLOW AND CAPACITY
109	4"	PLASTIC/GOOD	858.46-	46" / 3.83	854.63	ACTIVE FLOW AND CAPACITY
110	4"	PLASTIC/GOOD	858.54-	46" / 3.83	854.71	ACTIVE FLOW AND CAPACITY
111	5"	PLASTIC/GOOD	858.18-	42" / 3.50	854.68	ACTIVE FLOW AND CAPACITY
112	5"	PLASTIC/GOOD	858.60-	47" / 3.91	854.69	ACTIVE FLOW AND CAPACITY
113	5"	PLASTIC/GOOD	859.28-	54" / 4.50	854.78	ACTIVE FLOW AND CAPACITY
114	5"	PLASTIC/GOOD	858.94-	53" / 4.41	854.53	ACTIVE FLOW AND CAPACITY
115	5"	PLASTIC/GOOD	858.98-	53" / 4.41	854.57	ACTIVE FLOW AND CAPACITY
116	4"	PLASTIC/GOOD	859.17-	54" / 4.50	854.67	ACTIVE FLOW AND CAPACITY
117	5"	PLASTIC/GOOD	859.81-	60" / 5.00	854.81	ACTIVE FLOW AND CAPACITY
118	5"	PLASTIC/GOOD	860.39-	65" / 5.41	854.98	ACTIVE FLOW AND CAPACITY
119	5"	PLASTIC/GOOD	860.22-	62" / 5.16	855.06	ACTIVE FLOW AND CAPACITY
120	5"	PLASTIC/GOOD	860.35-	64" / 5.33	855.02	ACTIVE FLOW AND CAPACITY
121	5"	PLASTIC/GOOD	860.37-	63" / 5.25	855.12	ACTIVE FLOW AND CAPACITY
122	4"	PLASTIC/GOOD	859.99-	26" / 2.16	857.83	ACTIVE FLOW AND CAPACITY
123	5"	PLASTIC/GOOD	858.94-	23" / 2.66	856.28	ACTIVE FLOW AND CAPACITY
124	5"	PLASTIC/GOOD	858.70-	31" / 2.58	856.12	ACTIVE FLOW AND CAPACITY
125	5"	PLASTIC/GOOD	858.60-	28" / 2.33	856.27	ACTIVE FLOW AND CAPACITY
126	4"	PLASTIC/GOOD	857.90-	32" / 2.66	855.24	ACTIVE FLOW AND CAPACITY
127	5"	PLASTIC/GOOD	858.24-	35" / 2.91	855.33	ACTIVE FLOW AND CAPACITY
128	5"	PLASTIC/GOOD	858.33-	37" / 3.08	855.25	ACTIVE FLOW AND CAPACITY
129	4"	PLASTIC/GOOD	858.28-	27" / 2.25	856.03	ACTIVE FLOW AND CAPACITY
130	5"	PLASTIC/GOOD	858.27-	34" / 2.83	855.44	ACTIVE FLOW AND CAPACITY

NOTE: THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY.

DATE 17JUN14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1009-13-03 QUANTITY
0010	208.0100	BORROW	CY	350.000	350.000
0020	305.0115	BASE AGGREGATE DENSE 3/4-INCH	CY	25.000	25.000
0030	522.0372	CULVERT PIPE REINFORCED CONCRETE CLASS IV 72-INCH	LF	70.000	70.000
0040	522.1072	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 72-INCH	EACH	2.000	2.000
0050	606.0300	RIPRAP HEAVY	CY	16.000	16.000
0060	619.1000	MOBILIZATION	EACH	1.000	1.000
0070	628.1504	SILT FENCE	LF	450.000	450.000
0080	628.1520	SILT FENCE MAINTENANCE	LF	450.000	450.000
0090	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000	1.000
0100	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0110	628.6005	TURBIDITY BARRIERS	SY	120.000	120.000
0120	628.7015	INLET PROTECTION TYPE C	EACH	6.000	6.000
0130	628.7560	TRACKING PADS	EACH	1.000	1.000
0140	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1009-13-03	EACH	1.000	1.000
0150	643.0900	TRAFFIC CONTROL SIGNS	DAY	426.000	426.000
0160	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	40.000	40.000
0170	645.0140	GEOTEXTILE FABRIC TYPE SAS	SY	140.000	140.000
0180	SPV.0060	SPECIAL 01. DRAIN TILE BACKWATER VALVE INSTALLATION	EACH	130.000	130.000
0190	SPV.0060	SPECIAL 02. INLINE PLUG SECTION INSTALLATION	EACH	77.000	77.000
0200	SPV.0060	SPECIAL 03. OUTFALL END PLUG INSTALLATION	EACH	29.000	29.000

EARTHWORK

CATEGORY	LOCATION	208.0100 BORROW CY
0010	PROJECT SITE - CULVERT INSTALLATION	350
PROJECT TOTAL		350

BASE AGGREGATE

CATEGORY	LOCATION	305.0115 BASE AGGREGATE DENSE ¾-INCH CY
0010	PROJECT SITE - GRAVEL DRIVE OVER CULVERT	25
PROJECT TOTAL		25

CULVERT PIPE

CATEGORY	LOCATION	522.0372 CULVERT PIPE REINFORCED CONCRETE CLASS IV 72-INCH LF	522.1072 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 72-INCH EACH
0010	PROJECT SITE	70	2
PROJECT TOTAL		70	2

RIPRAP

CATEGORY	LOCATION	606.0300 RIPRAP HEAVY CY
0010	PROJECT SITE - CULVERT OUTLET	16
PROJECT TOTAL		16

TRAFFIC CONTROL

CATEGORY	LOCATION	643.0100 TRAFFIC CONTROL (PROJECT) EACH	643.0900 SIGNS DAYS
0010	FEMRITE DRIVE	1	426
PROJECT TOTAL		1	426

GEOTEXTILE FABRIC

CATEGORY	LOCATION	645.0120 GEOTEXTILE FABRIC TYPE HR SY	645.0140 GEOTEXTILE FABRIC TYPE SAS SY
0010	PROJECT SITE	40	140
PROJECT TOTAL		40	140

DRAIN TILE DISABLEMENT

CATEGORY	LOCATION	SPV.0060.01 DRAIN TILE BACKWATER VALVE INSTALLATION EACH	SPV.0060.02 INLINE PLUG SECTION INSTALLATION EACH	SPV.0060.03 OUTFALL END PLUG INSTALLATION EACH
0010	FIELD STAKED	130	77	29
PROJECT TOTAL		130	77	29

EROSION CONTROL

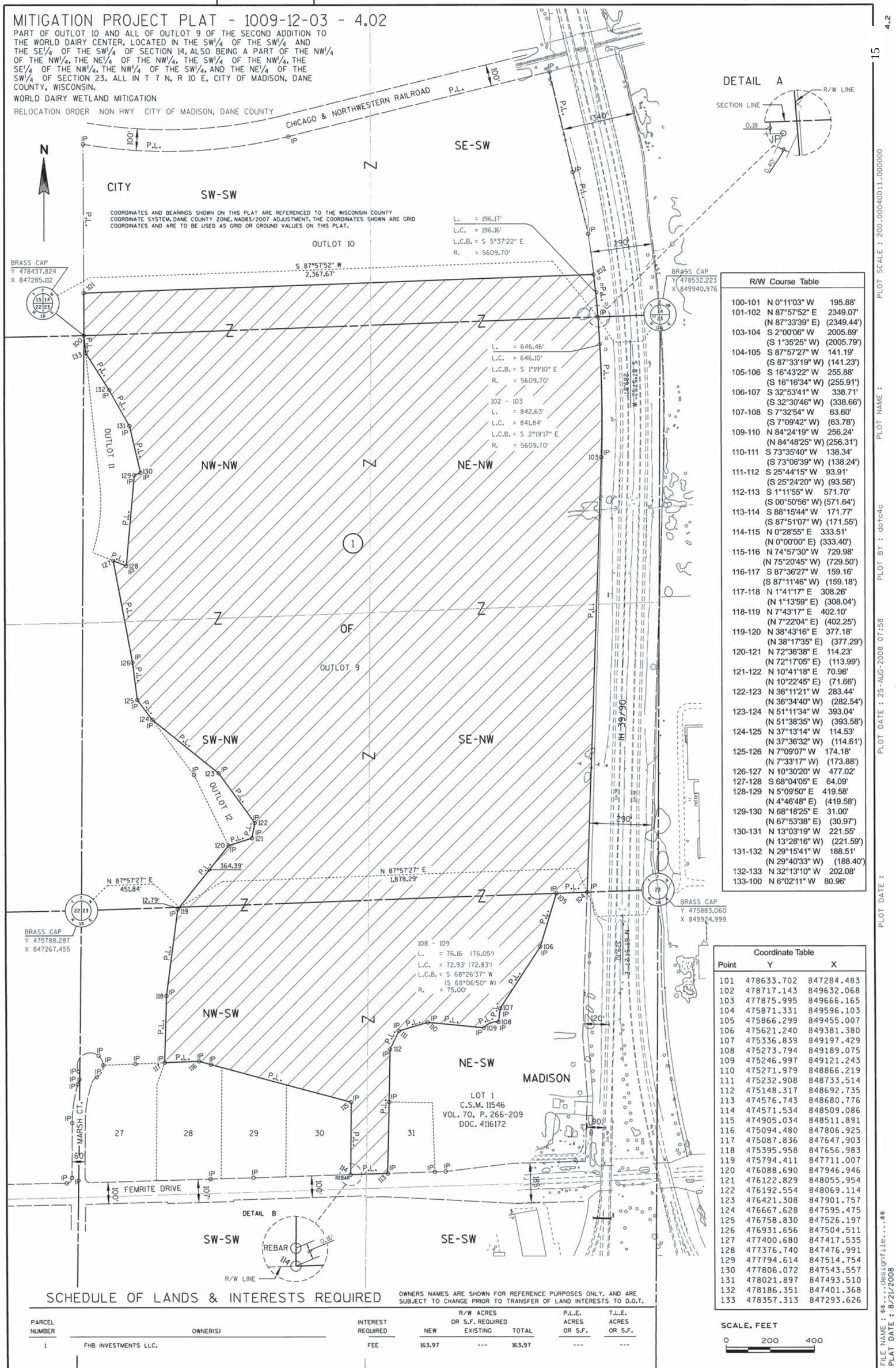
CATEGORY	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.6005 TURBIDITY BARRIERS SY	628.7015 INLET PROTECTION TYPE C EACH	628.7560 TRACKING PADS EACH
0010	PROJECT SITE	450	450	1	1	120	6	1
PROJECT TOTAL		450	450	1	1	120	6	1

MITIGATION PROJECT PLAT - 1009-12-03 - 4.02

PART OF OUTLOT 10 AND ALL OF OUTLOT 9 OF THE SECOND ADDITION TO THE WORLD DAIRY CENTER, LOCATED IN THE SW¼ OF THE SW¼ AND THE SE¼ OF THE SW¼ OF SECTION 14, ALSO BEING A PART OF THE NW¼ OF THE NW¼, THE NE¼ OF THE NW¼, THE SW¼ OF THE NW¼, THE SE¼ OF THE NW¼, THE NW¼ OF THE SW¼, AND THE NE¼ OF THE SW¼ OF SECTION 23. ALL IN T 7 N, R 10 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

WORLD DAIRY WETLAND MITIGATION

RELOCATION ORDER NON HWY CITY OF MADISON, DANE COUNTY



R/W Course Table

100-101	N 0°11'03" W	195.88'
101-102	N 87°57'52" E	2349.07'
	(N 87°33'39" E)	(2349.44')
103-104	S 2°00'06" W	2005.89'
	(S 1°35'25" W)	(2005.79')
104-105	S 87°57'27" W	141.19'
	(S 87°33'19" W)	(141.23')
105-106	S 16°43'22" W	255.88'
	(S 16°16'34" W)	(255.91')
106-107	S 32°53'41" W	338.71'
	(S 32°30'46" W)	(338.66')
107-108	S 7°32'54" W	63.60'
	(S 7°09'42" W)	(63.78')
109-110	N 84°24'19" W	256.24'
	(N 84°48'25" W)	(256.31')
110-111	S 73°35'40" W	138.34'
	(S 73°06'39" W)	(138.24')
111-112	S 25°44'15" W	93.91'
	(S 25°24'20" W)	(93.56')
112-113	S 1°11'55" W	571.70'
	(S 00°50'56" W)	(571.64')
113-114	S 88°15'44" W	171.77'
	(S 87°51'07" W)	(171.55')
114-115	N 0°28'55" E	333.51'
	(N 0°00'00" E)	(333.40')
115-116	N 74°57'30" W	729.98'
	(N 75°20'45" W)	(729.50')
116-117	S 87°36'27" W	159.16'
	(S 87°11'46" W)	(159.18')
117-118	N 1°41'17" E	308.26'
	(N 1°13'59" E)	(308.04')
118-119	N 7°43'17" E	402.10'
	(N 7°22'04" E)	(402.25')
119-120	N 38°43'16" E	377.18'
	(N 38°17'35" E)	(377.29')
120-121	N 72°36'38" E	114.23'
	(N 72°17'05" E)	(113.99')
121-122	N 10°41'18" E	70.96'
	(N 10°22'45" E)	(71.66')
122-123	N 36°11'21" W	283.44'
	(N 36°34'40" W)	(282.54')
123-124	N 51°11'34" W	393.04'
	(N 51°38'35" W)	(393.58')
124-125	N 37°13'14" W	114.53'
	(N 37°36'32" W)	(114.61')
125-126	N 7°09'07" W	174.18'
	(N 7°33'17" W)	(173.88')
126-127	N 10°30'20" W	477.02'
127-128	S 68°04'05" E	64.09'
128-129	N 5°09'50" E	419.58'
	(N 4°46'48" E)	(419.58')
129-130	N 68°18'25" E	31.00'
	(N 67°53'38" E)	(30.97')
130-131	N 13°03'19" W	221.55'
	(N 13°28'16" W)	(221.59')
131-132	N 29°15'41" W	188.51'
	(N 29°40'33" W)	(188.40')
132-133	N 32°13'10" W	202.08'
133-100	N 6°02'11" W	80.96'

Coordinate Table

Point	Y	X
101	478633.702	847284.483
102	478717.143	849632.068
103	477875.995	849666.165
104	475871.331	849596.103
105	475866.299	849455.007
106	475621.240	849381.380
107	475336.839	849197.429
108	475273.794	849189.075
109	475246.997	849121.243
110	475271.979	848866.219
111	475232.908	848733.514
112	475148.317	848692.735
113	474576.743	848680.776
114	474571.534	848509.086
115	474905.034	848511.891
116	475094.480	847806.925
117	475087.836	847647.903
118	475395.958	847656.983
119	475794.411	847711.007
120	476088.690	847946.946
121	476122.829	848055.954
122	476192.554	848069.114
123	476421.308	847901.757
124	476667.628	847595.475
125	476758.830	847526.197
126	476931.656	847504.511
127	477400.680	847417.535
128	477376.740	847476.991
129	477794.614	847514.754
130	477806.072	847543.557
131	478021.897	847493.510
132	478186.351	847401.368
133	478357.313	847293.626

SCALE, FEET

0 200 400

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO D.O.T.

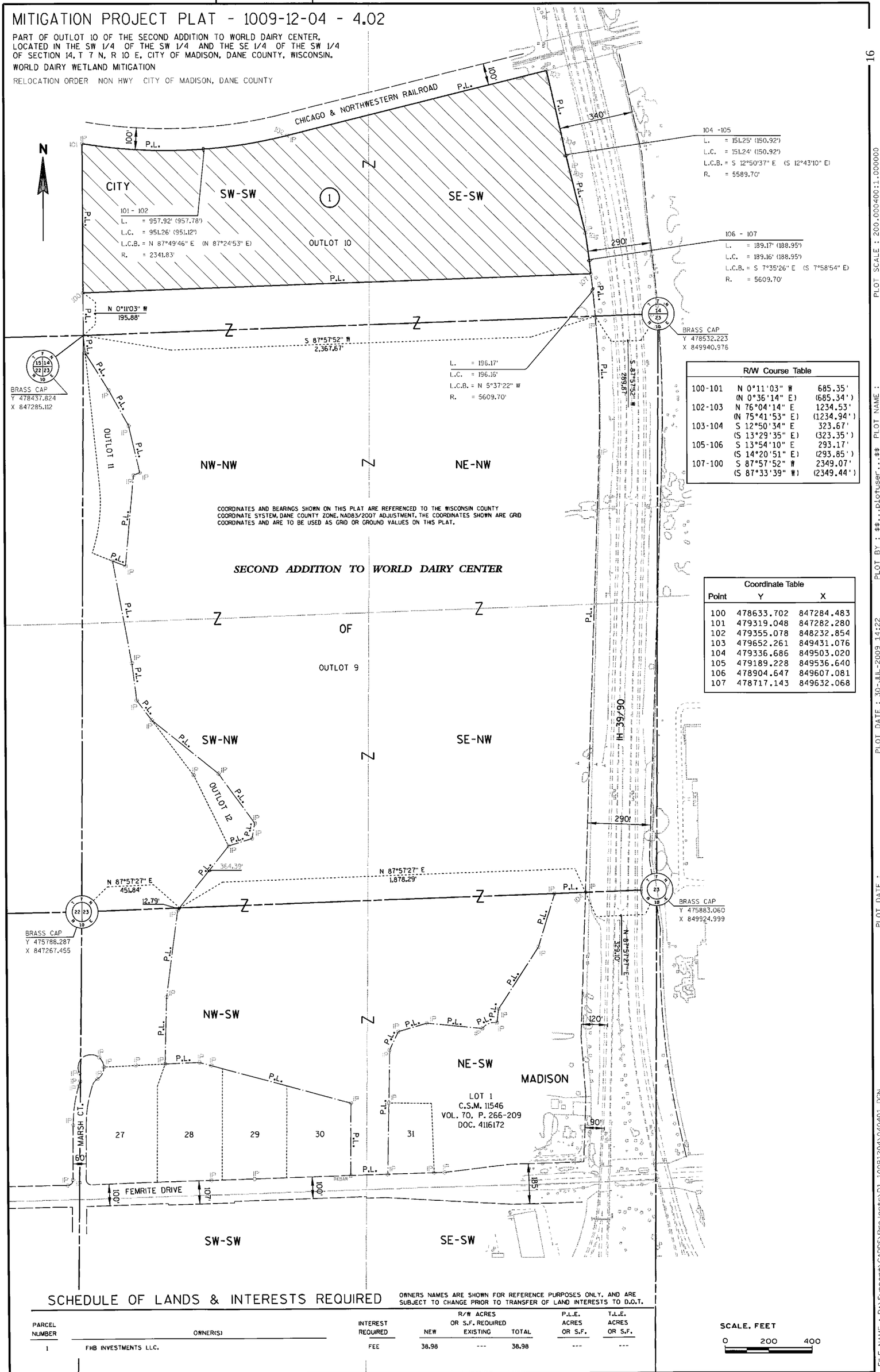
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	P.L.E. ACRES OR S.F.	T.L.E. ACRES OR S.F.
1	FHB INVESTMENTS LLC.	FEE	163.97	---	163.97	---	---

MITIGATION PROJECT PLAT - 1009-12-04 - 4.02

PART OF OUTLOT 10 OF THE SECOND ADDITION TO WORLD DAIRY CENTER, LOCATED IN THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF THE SW 1/4 OF SECTION 14, T 7 N, R 10 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

WORLD DAIRY WETLAND MITIGATION

RELOCATION ORDER NON HWY CITY OF MADISON, DANE COUNTY



R/W Course Table		
100-101	N 0°11'03" W	685.35'
	(N 0°36'14" E)	(685.34')
102-103	N 76°04'14" E	1234.53'
	(N 75°41'53" E)	(1234.94')
103-104	S 12°50'34" E	323.67'
	(S 13°29'35" E)	(323.35')
105-106	S 13°54'10" E	293.17'
	(S 14°20'51" E)	(293.85')
107-100	S 87°57'52" W	2349.07'
	(S 87°33'39" W)	(2349.44')

Coordinate Table		
Point	Y	X
100	478633.702	847284.483
101	479319.048	847282.280
102	479355.078	848232.854
103	479652.261	849431.076
104	479336.686	849503.020
105	479189.228	849536.640
106	478904.647	849607.081
107	478717.143	849632.068

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	P.L.E. ACRES OR S.F.	T.L.E. ACRES OR S.F.
1	FHB INVESTMENTS LLC.	FEE	38.98	---	38.98	---	---

SCALE, FEET

0 200 400

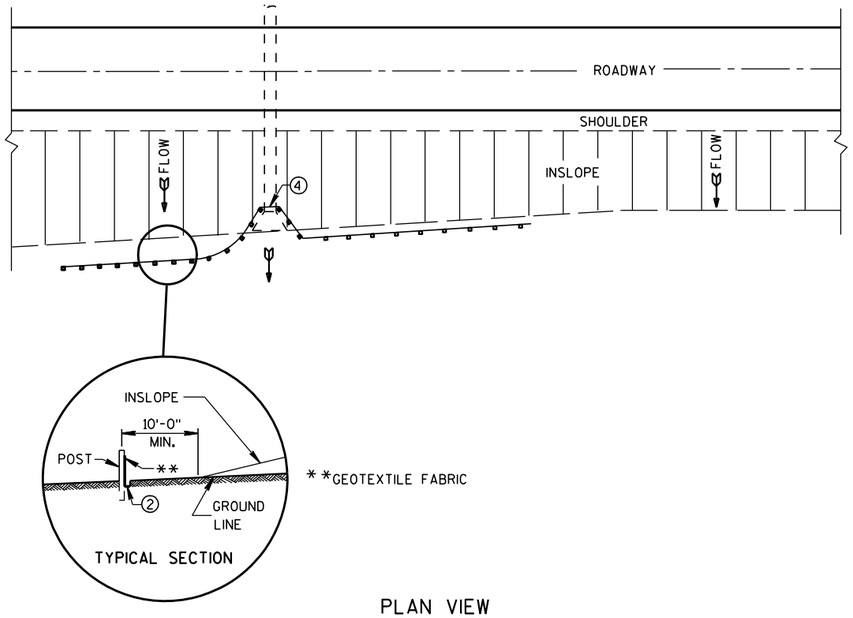
FILE NAME : R:\Support\CADD\Projects\01_1009\204\040401.DGN
PLAT DATE : JULY 30, 2009
PLOT DATE : PLOT DATE : 30-JUL-2009 14:22 PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : 200.000400:1.000000
4.2
16

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

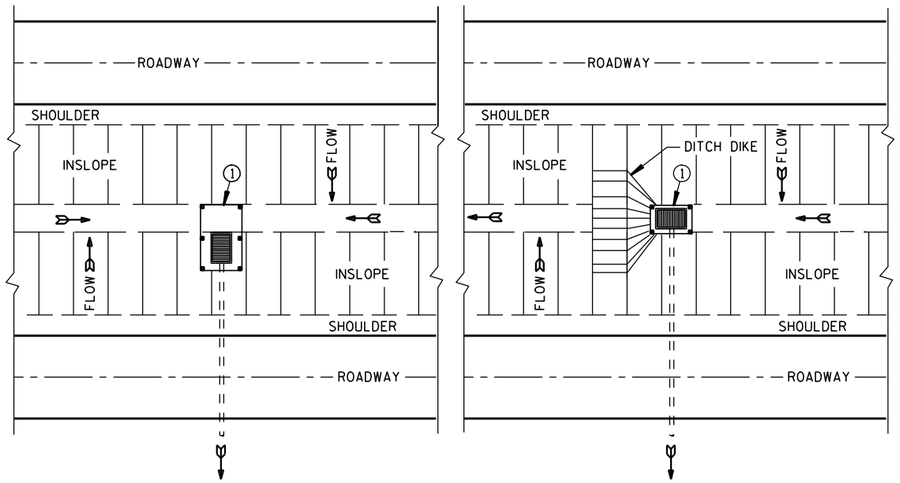
6

6



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

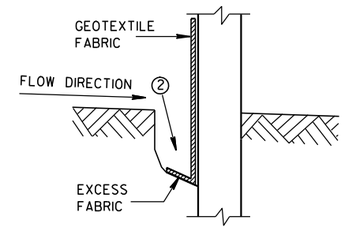
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE 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.

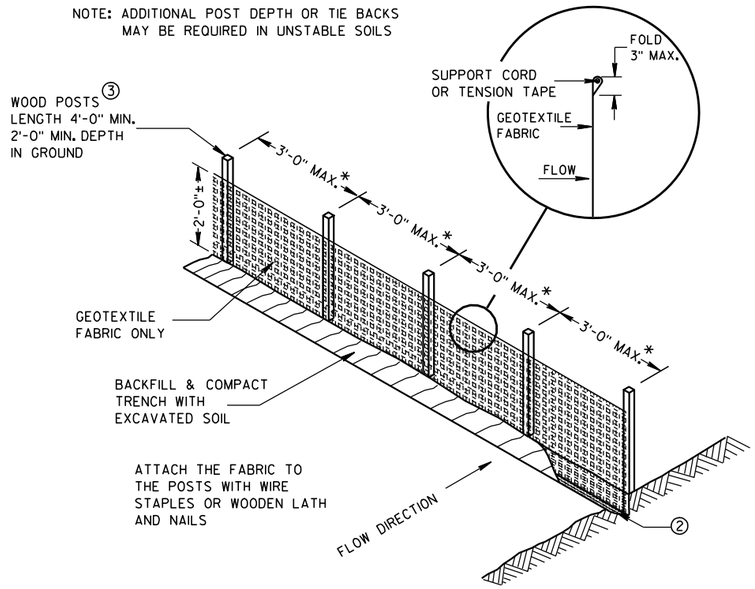
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

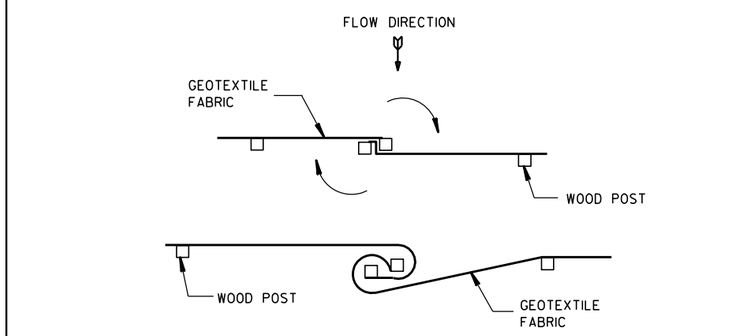
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



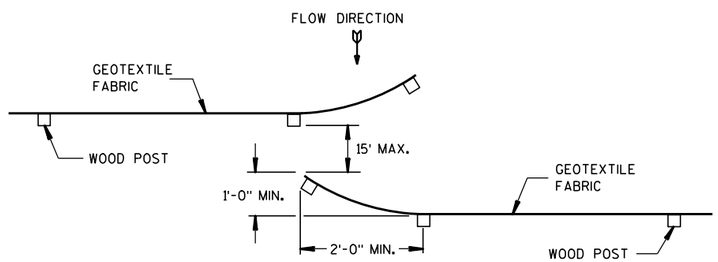
TRENCH DETAIL



SILT FENCE

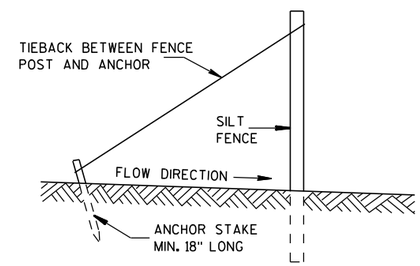


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

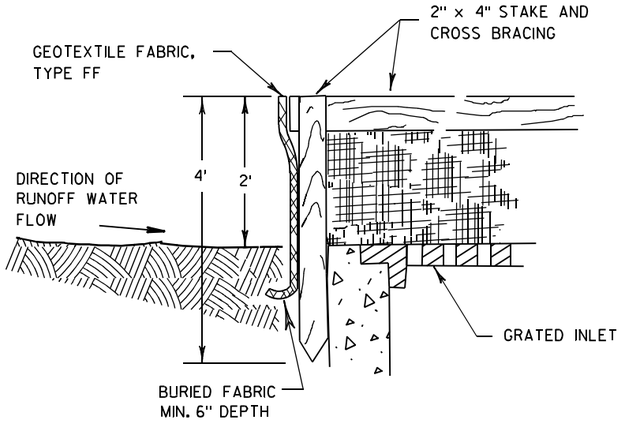
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

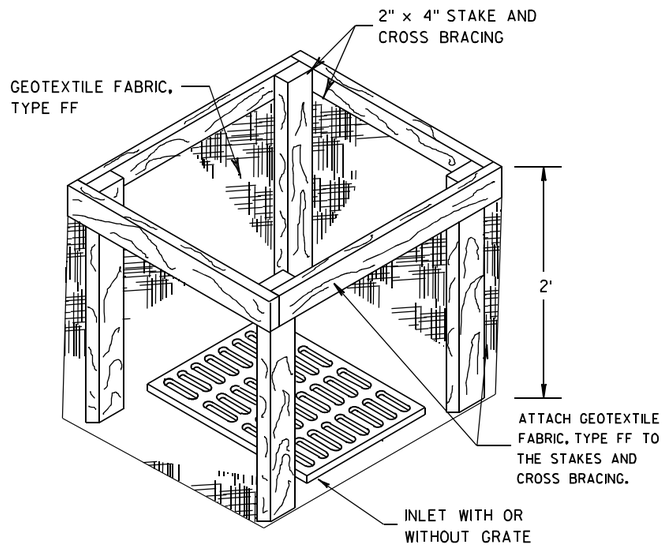
6

S.D.D. 8 E 9-6

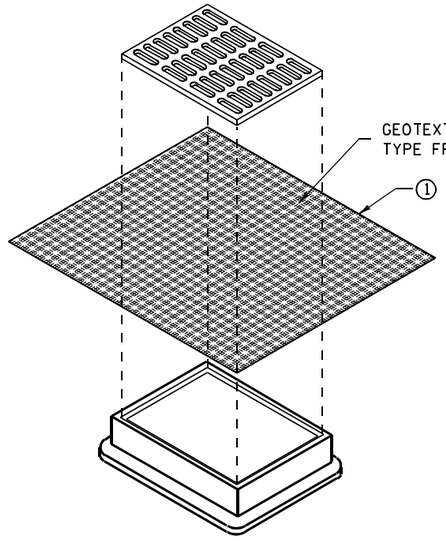
6

S.D.D. 8 E 9-6



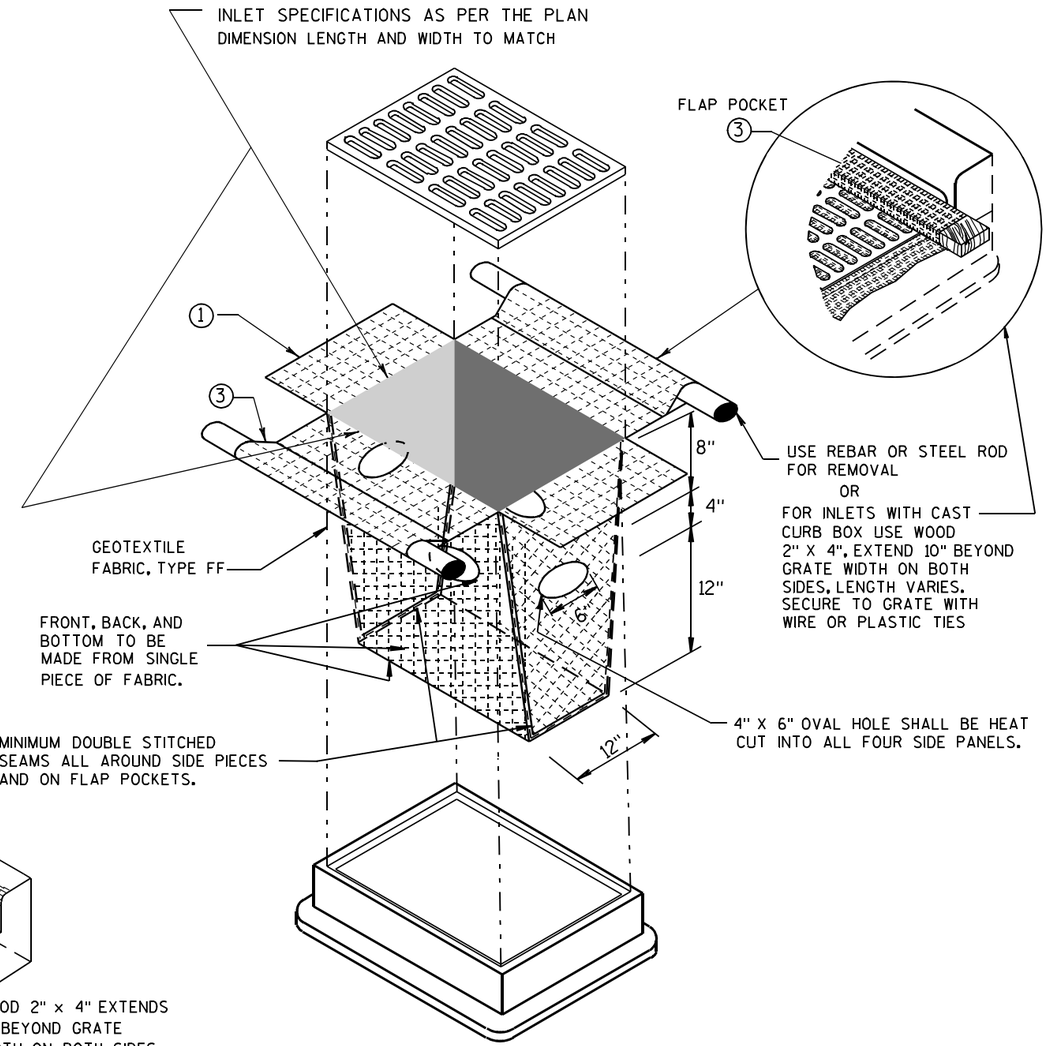


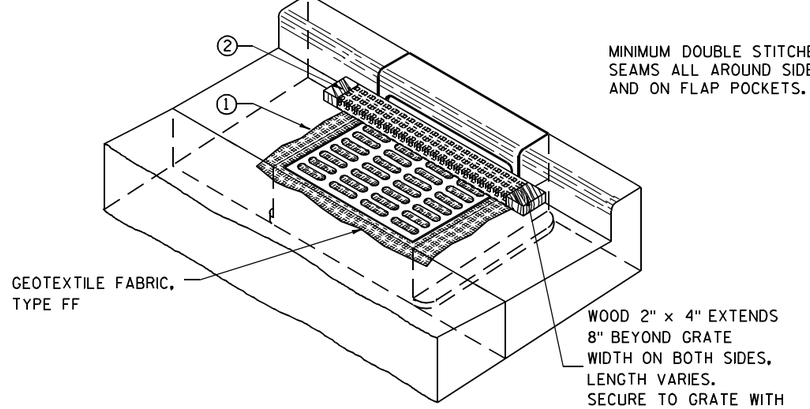
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)





INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL 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.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

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.

TYPE D

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.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

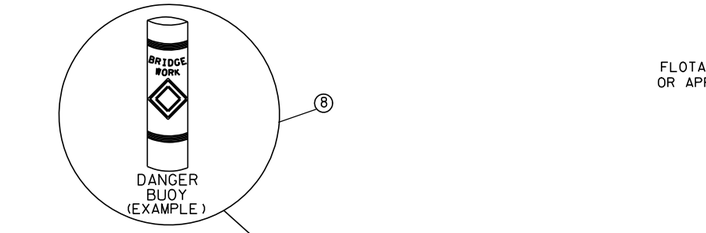
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

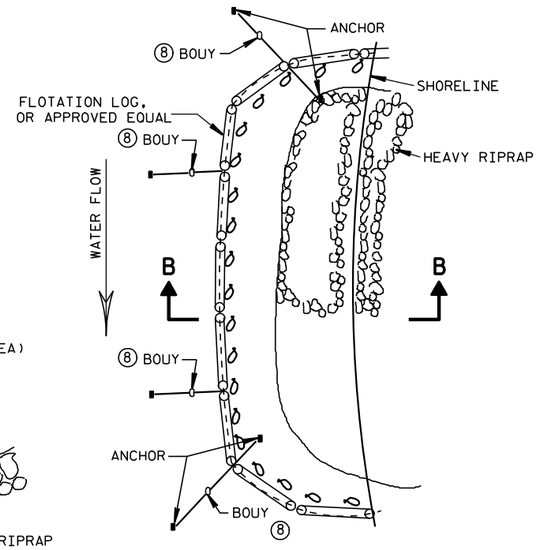
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

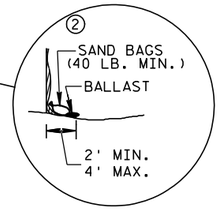
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

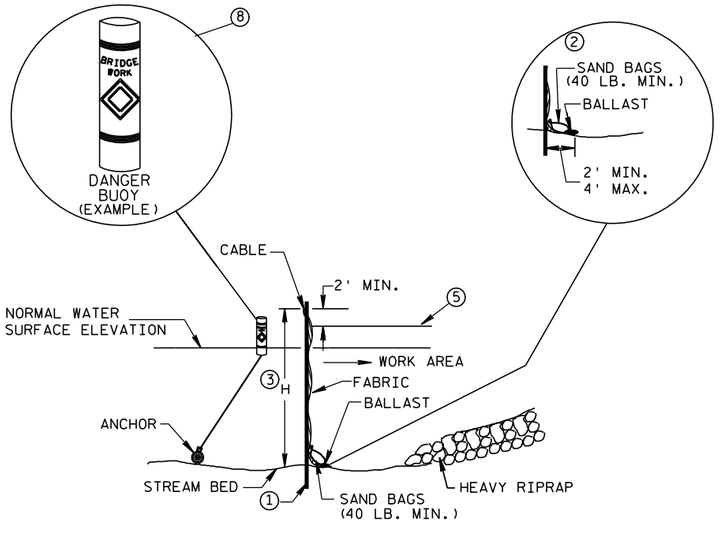


SECTION B-B

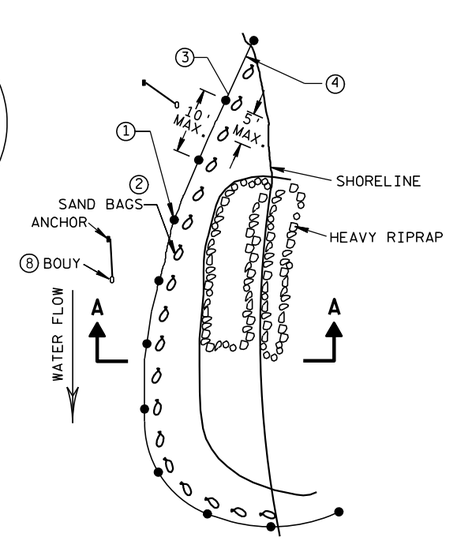




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

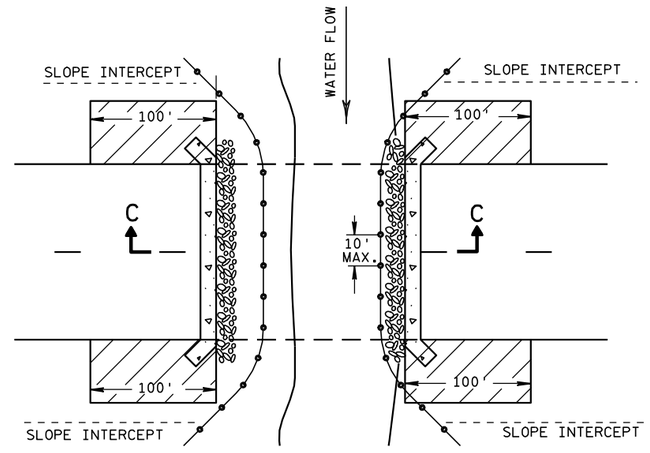
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

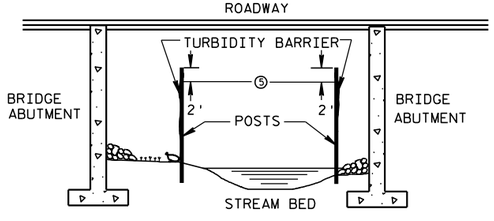
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



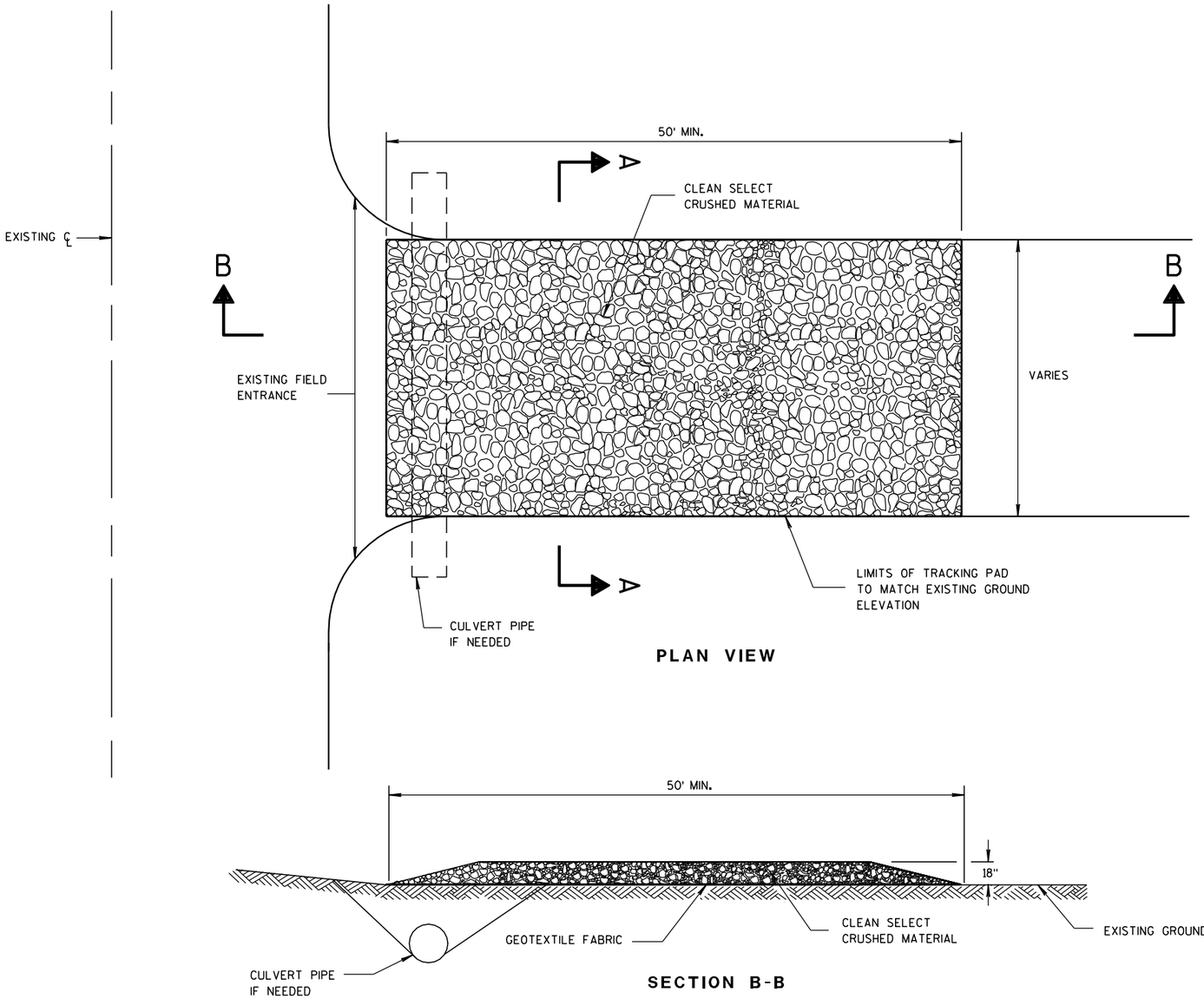
SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

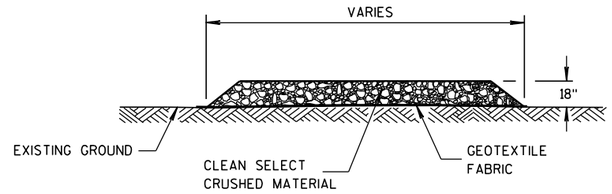
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

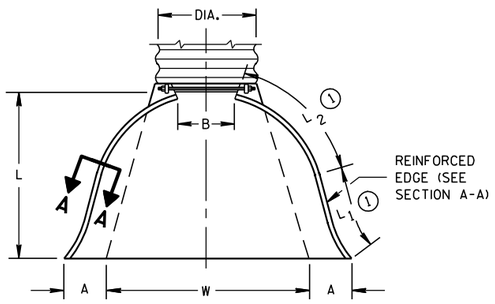
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

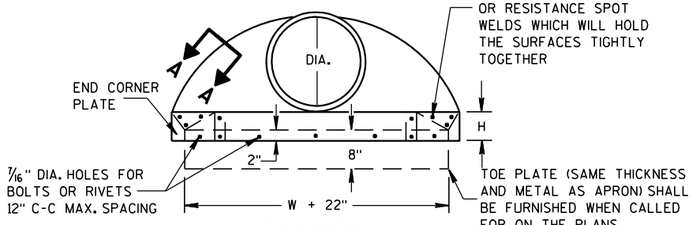
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

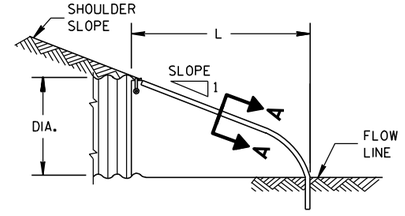
* MINIMUM
** MAXIMUM



PLAN VIEW

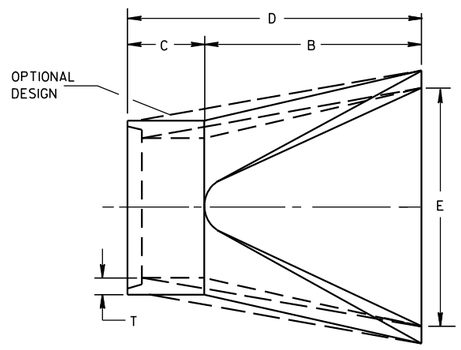


END VIEW

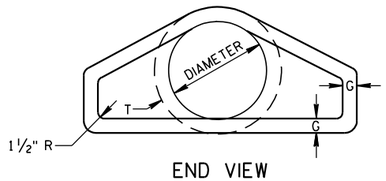


SIDE ELEVATION

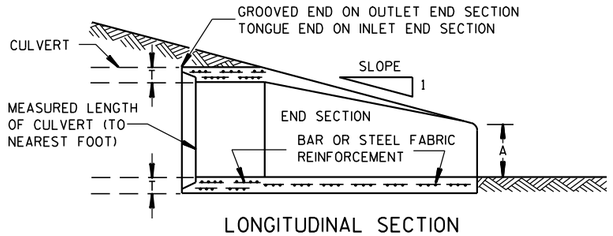
METAL ENDWALLS



PLAN

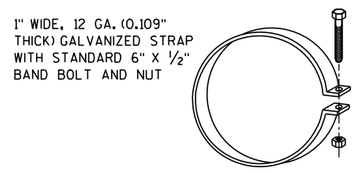


END VIEW



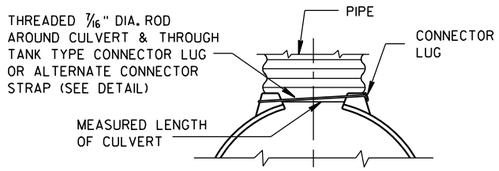
LONGITUDINAL SECTION

CONCRETE ENDWALLS

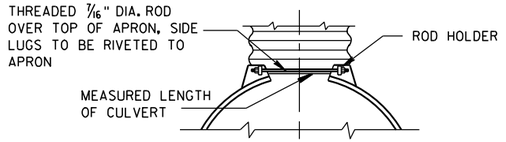


ALTERNATE FOR TYPE 1 CONNECTION

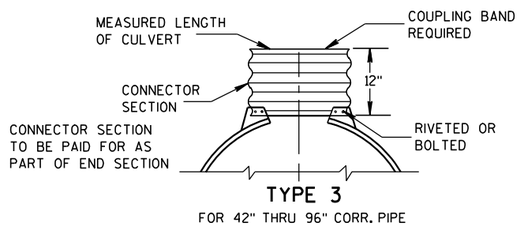
END SECTION CONNECTOR STRAP



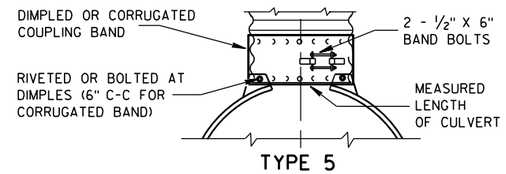
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

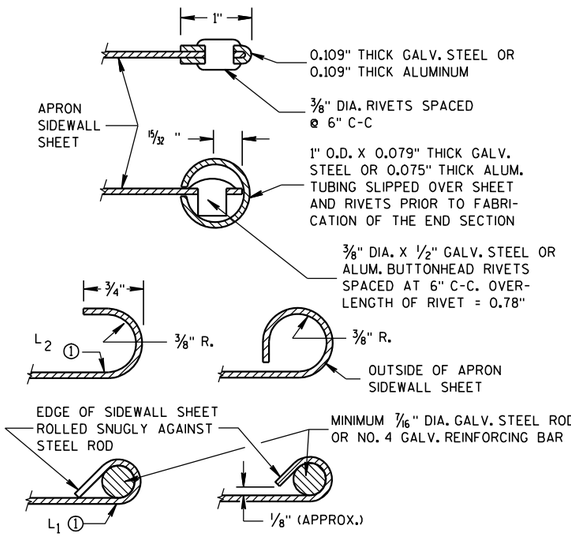
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENGINEER
FHWA

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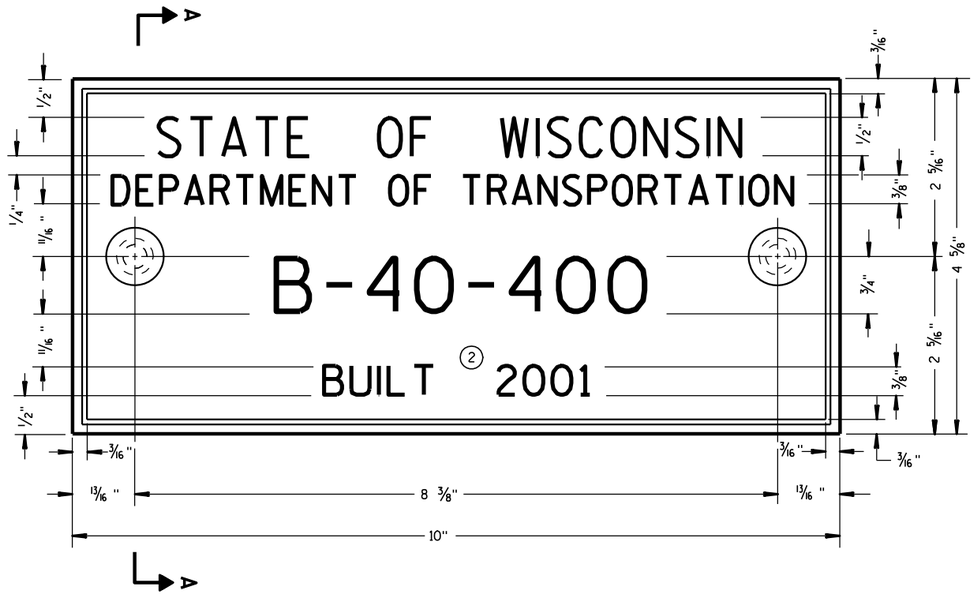
S.D.D. 8 F 1-11



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

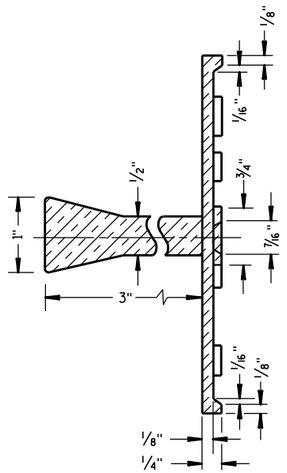
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

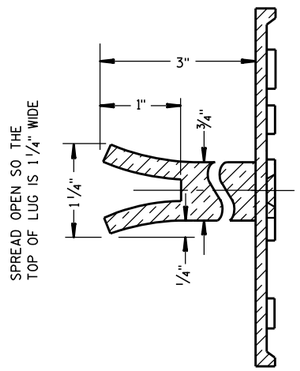
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

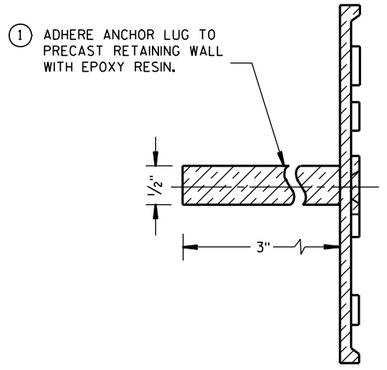
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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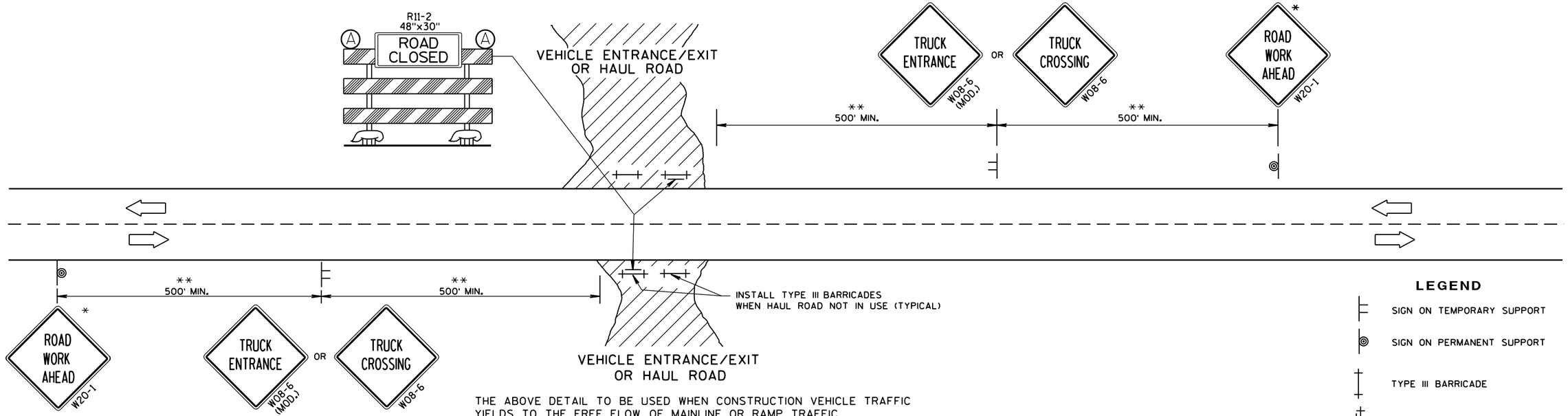
S.D.D. 12 A 3-10



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

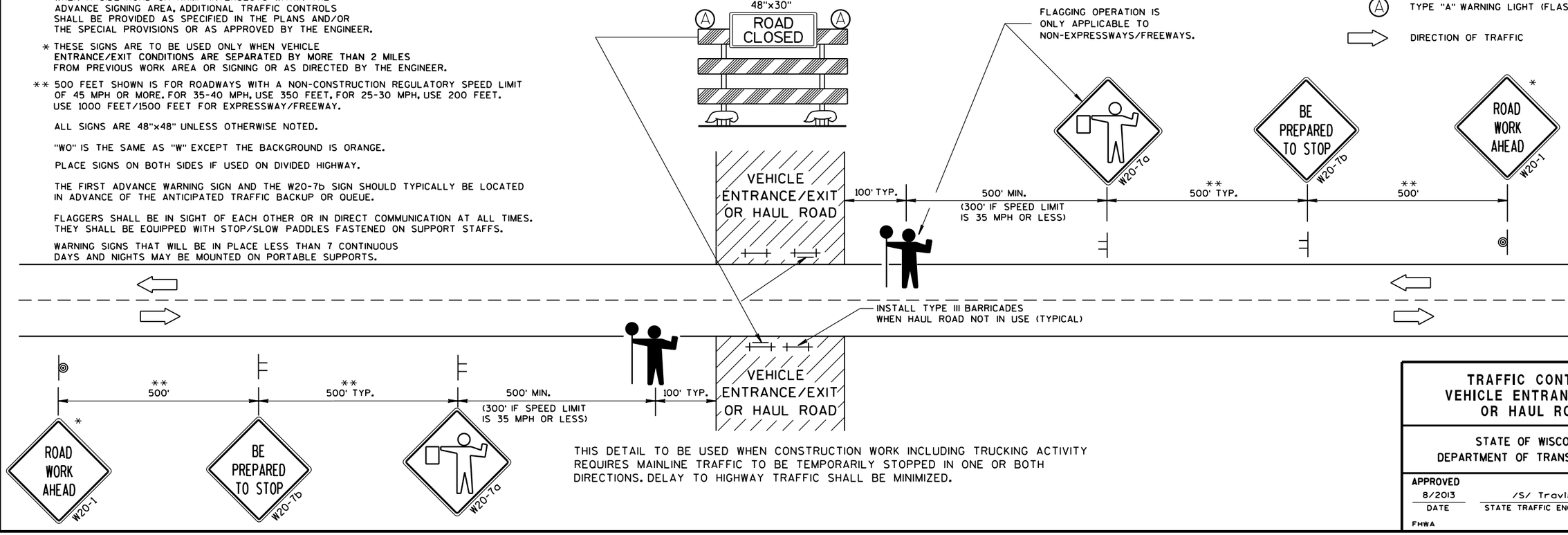
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W20-7b SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013	/S/ Travis Feltes	
DATE	STATE TRAFFIC ENGINEER	IGN

FHWA

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S.D.D. 15 D 29-3

Notes

Wisconsin Department of Transportation

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through innovation and exceptional service.

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