GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 IN = 30 FT

ROLAND POSTIER TRUST
6247 85TH ST NW
PINE ISLAND, MN 55963
PID#85.25.43.038847
ZONED A-2

ROLAND POSTIER TRUST
6247 85TH ST NW
PINE ISLAND, MN 55963
PID#85.25.43.038847
ZONED A-2

25' REAR YARD SETBACK (STRUCTURES)

12' TOP EMBANKMENT

SB-5 SB-4 SB-3 SB-2 SB-1 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11 SB-12 SB-13 SB-14

TP#1 TP#2 TP#3

146' 56' 130' 220'

12' TOP EMBANKMENT

30'

SAND BEACH (TYP.) 70' 160'

F&I DUAL (2x) 96 LF 24" DUAL-WALL HDPE CULVERTS WITH METAL APRONS @ 4.85% (TOTAL CULVERT LENGTHS = 103.1 FT)

F&I 106.65 LF 4" SDR 26 PVC @ 0.94%

OVERFLOW PARKING LOT

F&I WHEEL STOPS

GUY WIRE EASEMENT AREA 10'

F&I BOLLARDS (TYP.)

CELL TOWER

F&I 103.11 LF 4" PERF. HDPE DRAINTILE @ 1.90%

F&I 87.96 LF 4" PERF. HDPE DRAINTILE @ 2.84%

F&I 150.00 LF 4" PERF. HDPE DRAINTILE @ 5.03%

F&I 188.90 LF 4" PERF. HDPE DRAINTILE @ 2.82%

F&I 75.00 LF 4" PERF. HDPE DRAINTILE @ 1.95%

F&I DRAINFIELD PROTECTION TEMP. FENCE

SECONDARY

3000 GAL PUMP TANK

3000 GAL SEPTIC TANKS

C.O. #1 C.O. #2 C.O. #3 C.O. #4 C.O. #5 C.O. #6 C.O. #7

20' TOWER ACCESS EASEMENT

CATERER STAGING/LOADING ZONE

10' GUY WIRE EASEMENT AREA

THOMAS CAPELLE
8500 COUNTY RD 3 NW
ORONOCO, MN 55960
PID#85.25.34.038856
ZONED A-2

BERT & RACHEL OTTO
6425 85TH ST NW
PID#85.25.43.038848
ZONED SD

EXISTING BARN
ASSUMED FFE: 1121.44

PRO. PATIO EX. PATIO 5' SIDEWALK

STAIRS TO PARKING

SUNKEN FIRE PIT (BY OTHERS)

EXISTING DETACHED GARAGE

APPROX. LOCATION OF EXISTING DRAINFIELD

PROPOSED 200 SF VESTIBULE 10'x20'

EXISTING STRUCTURE 3,200 SF FFE: 1123.80

BLDG. MOUNTED HANDICAP SIGNS (TYP.)

WHEEL STOPS

PROPOSED 1200 SF ADDITION 12'x100'

PROPOSED 1200 SF ADDITION 2'x100'

PROPOSED 800 SF ADDITION 20'x40'

EXISTING HOME

PROPANE TANK

1,536 SF ACCESSORY SHOP 48'x32' FFE: 1119.00

3,200 SF ACCESSORY SHED 40'x80' FFE: 1119.00

25' SIDE YARD SETBACK

45' FRONT YARD SETBACK

33' RIGHT-OF-WAY

EX. 37 LF 18" CMP CULVERT @ 2.41%

85TH STREET NW

ROLAND POSTIER TRUST
6434 85TH ST NW
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PID#85.36.12.039041
ZONED A-2

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JASON KAPPERS
DATE 04/16/2025 REG. NO. 62741

DESIGNED JWK
DRAWN JWK
CHECKED GGG

REVISED	BY	DATE
FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
SWCD COMMENTS	JWK	03/24/25
POND TEST PITS	JWK	04/08/25
TCPA SUBMITTAL	JWK	04/16/25

CANTERBURY FARM & EVENT CENTER SITE PLAN

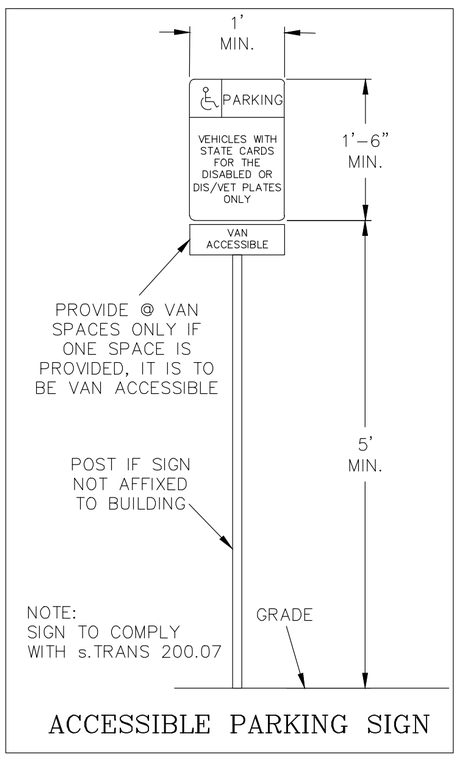
BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
(NEAR SOUTHWEST PROPERTY CORNER)

SHEET 1
OF 10 SHEETS

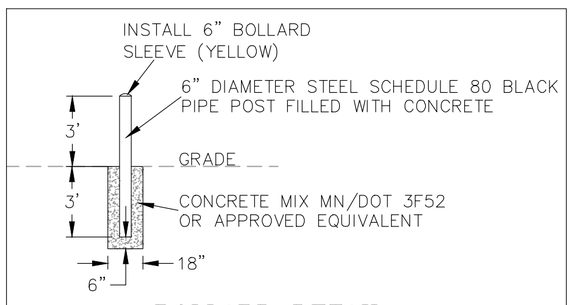
WARNING
BEFORE DIGGING CALL GOPHER STATE ONE CALL FOR LOCATIONS.
DIAL – 1–800–252–1166
REQUIRED BY LAW

SITE PLAN LEGEND

- SOIL BORINGS / TEST PITS
- EXISTING SEPTIC CLEANOUT
- PROPOSED SEPTIC CLEANOUT
- PROPOSED DRAIN TILE CLEANOUT
- SIGNS
- COMMUNICATIONS BOX
- ELECTRIC POLE & GUY WIRE
- EXISTING TREE
- TREELINE
- EXISTING SEPTIC LINE
- PROPOSED SEPTIC LINE
- EXISTING STORM CULVERT
- PROPOSED STORM CULVERT
- OVERHEAD ELECTRIC LINES
- UNDERGROUND ELECTRIC LINES
- UNDERGROUND COMMUNICATIONS LINE
- EXISTING FENCE
- PROPOSED DRAIN TILE
- EASEMENT LINE
- EXISTING RETAINING WALL
- EXISTING BITUMINOUS SURFACING
- EXISTING CONCRETE SURFACING
- EXISTING AGGREGATE SURFACING
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED PARKING/DRIVES

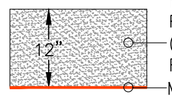


ACCESSIBLE PARKING SIGN



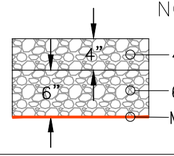
BOLLARD DETAIL
NOT TO SCALE

BEACH TYPICAL SECTION
NOT TO SCALE



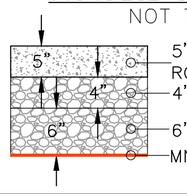
12" SAND COVER
REF. MNDOT 3149.2–12
(FREE OF STONE & HOLDS FORM WHEN WETTED)
MNDOT TYPE 5 GEOTEXTILE

AGGREGATE TYPICAL SECTION
NOT TO SCALE



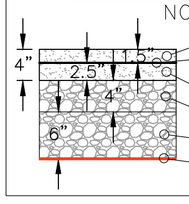
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE

CONCRETE TYPICAL SECTION
NOT TO SCALE

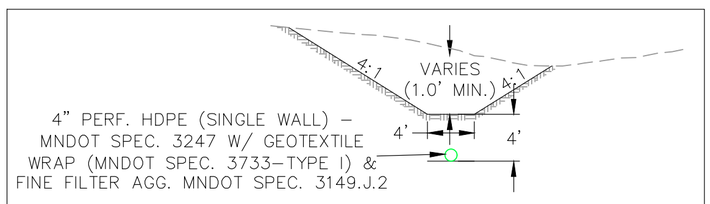


5" CONCRETE (REFER TO ROCH. STD. PLATE 2–14)
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE

BITUMINOUS TYPICAL SECTION
NOT TO SCALE



1.5" BITUMINOUS BASE COURSE
TACK COAT LAYER REQUIRED BETWEEN BITUMINOUS LIFTS
2.5" BITUMINOUS WEAR COURSE
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE



SWALE TYPICAL SECTION
NOT TO SCALE

DRAIN TILE NOTES (REFER TO SWALE TYP. FOR SPECS):

C.O. #1
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1127.50
INV.: 1123.50
F&I 42.60 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 14.51% TO C.O. #3

C.O. #2
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1122.78
INV.: 1118.78
F&I 75.00 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 1.95% TO C.O. #3

C.O. #3
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1121.32
INV.: 1117.32
F&I 188.90 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 2.82% TO C.O. #4

C.O. #4
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1116.00
INV.: 1112.00
F&I 150.00 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 5.03% TO C.O. #5

C.O. #5
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1108.46
INV.: 1104.46
F&I 87.96 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 2.84% TO C.O. #6

C.O. #6
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1105.96
INV.: 1101.96
F&I 103.11 LF 4" PERF. HDPE (SINGLE WALL) DRAIN TILE @ 1.90% TO C.O. #7

C.O. #7
F&I AGRI–DRAIN 4" STANDARD GRATE (GR04): 1104.00
INV.: 1100.00
F&I 106.65 LF 4" SDR 26 PVC @ 0.94% TO BASIN
F&I 4" RODENT GUARD @ OUTLET

SITE ZONING INFORMATION
–CURRENT ZONING: SD – SPECIAL DISTRICT
– SITE ADDRESS: 6425 85TH ST NW, PINE ISLAND, MN 55963
– THIS PROJECT IS FOR THE CONSTRUCTION OF TWO 12'x100' ADDITIONS, A 20'x80' ADDITION AND A 10'x20' VESTIBULE ADDITION TO AN EXISTING 40'x80' STRUCTURE FOR A WEDDING/EVENT CENTER AND ASSOCIATED PARKING. THE PLAN ALSO COVERS THE CONSTRUCTION OF A 4,736 SQ. FT. ACCESSORY STRUCTURE FOR THE OWNER'S PERSONAL STORAGE (NOT ASSOCIATED WITH EVENT CENTER) AND PRIVATE POND.

MINIMUM SETBACK FROM PROPERTY LINES (5.02E.b., 5.02E.c., 5.02E.d.)
– REQUIRED FRONT YARD: 45 FEET
– MINIMUM REQUIRED SIDE STREET YARD: 45 FEET
– MINIMUM REQUIRED INTERIOR YARD: 25 FEET
– MINIMUM REAR YARD: 25 FEET

MINIMUM LOT AREA REGULATIONS (5.02E.e, 5.02E.f.)
MINIMUM LOT AREA = NOT LESS THAN TWO (2) ACRES
BASE SITE AREA (INCLUDING 33' RIGHT–OF–WAY) = 10 ACRES
MINIMUM LOT WIDTH = 150 FEET
ACTUAL LOT WIDTH = 560 FEET

BUFFER YARDS REQUIRED: ADJACENT ZONING: A–2 – AGRICULTURAL PROTECTION DISTRICT
–NONE REQUIRED – ADJACENT PROPERTIES PERMITTED USES ARE OF EQUAL BUFFERYARD INDICATOR

PARKING (10.04 E.):
–1 PARKING SPACE FOR EVERY 5 PERSONS ALLOWED AS A MAXIMUM BUILDING CAPACITY
–350 MAXIMUM BUILDING CAPACITY = 70 SPACES REQUIRED, 97 SPACES PROVIDED
–REQUIRED HANDICAP PARKING SPACES: 4 MINIMUM (PER ADAAG 4.1.2)
(4 HANDICAP PARKING SPACES PROVIDED)
–HANDICAP PARKING SPACES SHALL HAVE SIGNS SET BETWEEN 60 AND 66 INCHES ABOVE GROUND LEVEL DENOTING "HANDICAP PARKING, VEHICLE ID REQUIRED, UP TO $200 FINE FOR VIOLATION"
–IF SIGNAGE WOULD OBSTRUCT A CURB RAMP AND/OR PEDESTRIAN ROUTE, THE SIGNAGE CAN BE OMITTED IF "NO PARKING" IS PROVIDED ON THE SURFACE OF THE ACCESS AISLE

OWNER
CANTERBURY FARM & EVENT CENTER
6425 85TH ST NW
PINE ISLAND, MN 55963
CONTACT: BERT & RACHEL OTTO
canterburyfarmevents@gmail.com
(507) 696–9301

ENGINEER & SURVEYOR
G–CUBED INC.
14070 HWY. 52 SE
CHATFIELD, MN 55923
geoffg@ggg.to
(507) 867–1666 x102
jasonk@ggg.to
(507) 867–1666 x104

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CANTERBURY FARM & EVENT CENTER
LEGEND, NOTES, TYPICALS

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
(NEAR SOUTHWEST PROPERTY CORNER)

Soil Borings

Boring ID: SB-1 **Canterbury Farm** **Sept. 27, 2024**

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-30	10YR 2/2						Loam	
30-32	10YR 4/3						Loam	
32-61	10YR 4/6						Loamy Med. Sand	
61-66	10YR 4/6,	50	10YR 5/2	50	D		Clay Loam	Till - dense

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grans. **Location: PL = Pore Lining, M = Matrix

Soil Borings

Boring ID: SB-7 **Canterbury Farm**

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-13			10YR 3/3				Sandy Loam	
>13								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grans. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-2

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-7	10YR 3/2						Loam	
7-17	10YR 4/3						Loam	10YR 2/2 clay coatings
17-23	10YR 4/6						Sandy Clay Loam	
>23								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-8

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-5			10YR 3/3				Sandy Loam	>25 % Limestone Frag.
>5								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-3

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18	10YR 2/2						Loam	
18-23	10YR 3/4						Clay Loam	
>23								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-9

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-38	10YR 2/1						Loam	
38-54	7.5YR 3/3						Loam	
>54								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Soil Borings

Boring ID: SB-4 **Canterbury Farms**

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-25	10YR 2/1						Silt Loam	
25-44	10YR 4/3						Loamy Med. Sand	
44-52	10YR 5/3		10YR 5/2	5	D		Loam/Sandy Lo.	residium
> 52								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grans. **Location: PL = Pore Lining, M = Matrix

Soil Borings

Boring ID: SB-10 **Canterbury Farms**

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-9	10YR 2/2						Loam	
9-23	10YR ¾						Loam	
23-28	10YR 4/6	75	10YR 5/2	25			Clay Loam	Residium
>28								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grans. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-5

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18	10YR 2/1						Silt Loam	
18-26	10YR 4/2						Silt Loam	
26-34	10YR 5/3		10YR 5/2, 4/4	5	D,C		Loam	
34-46	10YR 5/3		10YR 5/2	10		PL	Loamy Med. Sand	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-11 & SB-12

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-16	10YR 2/2, 5/4						Loam, SL, FLS	Fill
16-24	10YR 2/2						Loam	
24-29	10YR 4/3						Loam	
29-37	10YR 4/3						Sandy Loam	
37-59	10YR 4/3						Loamy Med. Sand	
59-65	10YR 4/2		10YR 3/4	5	C		Silt Loam	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-6

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-21	10YR 2/2						Loam	
>21								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Boring ID: SB-13

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-13	10YR 2/2						Loam	
13-27	10YR 4/3						Loam	
27-58	10YR 4/3						Loamy Med. Sand	
58-62	10YR 4/3		10YR 4/2, 4/6	10	D,C		Loamy Med. Sand	
>62								Refusal; limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Soil Borings

Boring ID: SB-14 **Canterbury Farms**

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18	10YR 2/1						Silt Loam	
18-21	10YR 4/3						Loam	
>21								Refusal; Limestone frag.

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grans. **Location: PL = Pore Lining, M = Matrix

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CANTERBURY FARM & EVENT CENTER
GGG SOIL BORING LOGS

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
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25' REAR YARD SETBACK (STRUCTURES)

12' TOP EMBANKMENT

OVERFLOW PARKING LOT

SECONDARY F&I DRAINFIELD PROTECTION TEMP. FENCE

GUY WIRE EASEMENT AREA

SAND BEACH (TYP.)
70'
160'

CELL TOWER

20' TOWER ACCESS EASEMENT

EXISTING BARN
ASSUMED FFE: 1121.44

SUNKEN FIRE PIT
(BY OTHERS)

EXISTING DETACHED GARAGE

EXISTING HOME

PROPANE TANK

EXISTING STRUCTURE
3,200 SF
FFE: 1123.80

PROPOSED 200 SF VESTIBULE 10'x20'

PROPOSED 1200 SF ADDITION 12'x100'

PROPOSED 1200 SF ADDITION 12'x100'

PROPOSED 800 SF ADDITION 20'x40'

CATERER STAGING/LOADING ZONE

3000 GAL PUMP TANK

3000 GAL SEPTIC TANKS

APPROX. LOCATION OF EXISTING DRAINFIELD

1,536 SF ACCESSORY SHOP
48'x32'
FFE: 1119.00

3200 SF ACCESSORY SHED
40'x80'
FFE: 1119.00

25' SIDE YARD SETBACK

45' FRONT YARD SETBACK

33' RIGHT–OF–WAY

EX. 37 LF 18" CMP CULVERT @ 2.41%

85TH STREET NW

THOMAS CAPELLE
8500 COUNTY RD 3 NW
ORONOCO, MN 55960
PID#85.25.34.038856
ZONED A–2

BERT & RACHEL OTTO
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CANTERBURY FARM & EVENT CENTER GRADING PLAN

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
(NEAR SOUTHWEST PROPERTY CORNER)

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30 0 15 30 60
(IN FEET)
1 IN = 30 FT

NORTH

ROLAND POSTIER TRUST
6247 85TH ST NW
PINE ISLAND, MN 55963
PID#85.25.43.038847
ZONED A–2

F&I 6.8 CY CLASS III RIPRAP
(PER MNDOT STD. PLATE 3134D)

F&I SILT FENCE
(PER ROCH. STD. PLATE 7–01)

25' REAR YARD SETBACK
(STRUCTURES)

F&I EROSION CONTROL BLANKET
(PER MNDOT 3885 CAT. 20)

12' TOP EMBANKMENT

SB–1 SB–2 SB–3 SB–4 SB–5 SB–6 SB–7 SB–8 SB–9 SB–10 SB–11 SB–12 SB–13 SB–14

TP#1 TP#2 TP#3

PI: 10+00.00
BP: 10+00.00
PI: 12+84.77
PI: 12+15.21

OVERFLOW
PARKING LOT

F&I 19 CY CLASS III RIPRAP
(PER MNDOT STD. PLATE 3134D)

SAND BEACH
(TYP.)

GUY WIRE EASEMENT AREA

SECONDARY

F&I DRAINFIELD
PROTECTION TEMP. FENCE

TILE

F&I BOLLARDS
(TYP.)

CELL TOWER

3000 GAL
PUMP TANK

20' TOWER ACCESS
EASEMENT

10' GUY WIRE EASEMENT AREA

3000 GAL
SEPTIC TANKS

CATERER STAGING/LOADING ZONE

EXISTING
BARN
ASSUMED FFE: 1121.44

PRO. PATIO

EX. PATIO

5' SIDEWALK

STAIRS TO
PARKING

SUNKEN FIRE PIT
(BY OTHERS)

EXISTING
DETACHED
GARAGE

PROPOSED 200 SF
VESTIBULE 10'x20'

EXISTING
STRUCTURE
3,200 SF
FFE: 1123.80

PROPOSED 1200 SF
ADDITION 12'x100'

PROPOSED 1200 SF
ADDITION 12'x100'

PROPOSED 800 SF
ADDITION 20'x40'

EXISTING
HOME

PROPANE
TANK

APPROX. LOCATION
OF EXISTING
DRAINFIELD

1,536 SF ACCESSORY
SHOP
48'x32'
FFE: 1119.00

3,200 SF ACCESSORY SHED
40'x80'
FFE: 1119.00

25' SIDE YARD SETBACK

45' FRONT YARD SETBACK

33'
RIGHT–OF–WAY

F&I ROCK CONSTRUCTION ENTRANCE
(PER ROCH. STD. PLATE 7–06)

EX. 37 LF 18" CMP
CULVERT @ 2.41%

20' TOWER ACCESS
EASEMENT

85TH STREET NW

THOMAS CAPELLE
8500 COUNTY RD 3 NW
ORONOCO, MN 55960
PID#85.25.34.038856
ZONED A–2

BERT & RACHEL OTTO
6425 85TH ST NW
PID#85.25.43.038848
ZONED SD

ROLAND POSTIER TRUST
6434 85TH ST NW
ORONOCO, MN 55960
PID#85.36.12.039041
ZONED A–2

ROLAND POSTIER TRUST
8366 COUNTY RD 3 NW
ORONOCO, MN 55960
PID#85.36.12.087849
ZONED A–2

G-Cubed
14070 Hwy 52 S.E.
Chatfield, MN 55923
ENGINEERING
SURVEYING
PLANNING
Ph. 507-867-1666
Fax 507-867-1665
www.ggg.to

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON KAPPERS
DATE 04/16/2025 REG. NO. 62741

DESIGNED JWK
DRAWN JWK
CHECKED GGG

REVISED	BY	DATE
FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
SWCD COMMENTS	JWK	03/24/25
POND TEST PITS	JWK	04/08/25
TCPA SUBMITTAL	JWK	04/16/25

CANTERBURY FARM & EVENT CENTER
EROSION CONTROL PLAN

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
(NEAR SOUTHWEST PROPERTY CORNER)

GENERAL EROSION CONTROL AND CONSTRUCTION NOTES:

1) PLACE MACHINE SLICED SILT FENCE AS SHOWN ON THE PLANS AND WHERE DIRECTED BY THE ENGINEER, AT TOE OF FILL SLOPES AND MAINTAIN UNTIL TURF HAS BEEN WELL ESTABLISHED. (INSTALLATION OF SILT FENCE MUST TAKE PLACE PRIOR TO DISTURBING THE WATERSHED). INSTALL AND MAINTAIN INLET PROTECTION AT ALL INLETS LOCATED WITHIN THE PROJECT AND IMMEDIATELY DOWNSTREAM OF THE PROJECT.
2) CONSTRUCT AND MAINTAIN TEMPORARY ROCK CONSTRUCTION ENTRANCE AT ALL CONSTRUCTION ENTRANCES USED DURING CONSTRUCTION TO CONTROL SEDIMENT FROM LEAVING SITE PER ROCHESTER STD. PLATE 7-06, CLOSE OTHER ENTRANCES WITH SILT FENCE.
3) REMOVE ALL TOPSOIL AND ORGANIC MATERIAL. STOCKPILE IN APPROVED LOCATIONS ON-SITE. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PROVIDE TEMPORARY COVER IF STOCKPILE WILL BE IN-PLACE MORE THAN 14 DAYS.
4) ALL EXCAVATED MATERIAL SHALL BE PLACED ON SITE AS DIRECTED BY THE ENGINEER OR HAULED TO AN APPROVED LOCATION. ANY TEMPORARY STOCKPILES SHALL HAVE SILT FENCE INSTALLED AROUND THE DOWN SLOPE EDGE TO PREVENT DOWNSTREAM SEDIMENTATION. TEMPORARY COVER SHALL BE ESTABLISHED AFTER 14 DAYS.
5) ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
6) THE CONTRACTOR SHALL ROUTINELY INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING.
7) THIS PROJECT DOES REQUIRE AN NPDES PERMIT BASED ON AREA DISTURBED AND DOES REQUIRE PERMANENT STORM WATER TREATMENT DUE TO THE INCREASE IN NEW IMPERVIOUS SURFACING BRINGING THE TOTAL SITE IMPERVIOUS TO A QUANTITY EXCEEDING ONE (1) ACRE. A SWPPP HAS BEEN PREPARED FOR THIS PROJECT AND SHALL BE PART OF THESE PLANS. BEST MANAGEMENT PRACTICES BEYOND WHAT MAY BE SHOWN ON THIS PLAN OR WITHIN THE SWPPP SHOULD BE CONSIDERED IF GRADING CAUSES EROSION NOT CONTAINED BY MEASURES SHOWN ON THIS PLAN.
8) RESPREAD TOPSOIL (4" MIN.), FERTILIZE, SEED, & DISK ANCHOR MULCH ALL DISTURBED AREAS. SOD OR SEED WITH MNDOT MIXTURE 25-131 WITH THE FOLLOWING ADDITIONS.
   FERTILIZER SHALL BE 24-12-24 AND BE APPLIED AT A RATE OF 300 LBS/ACRE.
   MIXTURE 25-131 SEEDING SHALL BE APPLIED AT A RATE OF 220 LBS/ACRE.
   MIXTURE 33-261 SEEDING SHALL BE APPLIED AT A RATE OF 35 LBS/ACRES. (STORMWATER FACILITIES)
   MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
   *THE SEASON FOR SEEDING SHALL BE FROM APRIL 1ST - JUNE 1ST AND JULY 20TH - SEPTEMBER 20TH, AND AS DORMANT SEEDING AFTER NOV. 1ST. ONLY TEMPORARY SEEDING WILL BE ALLOWED SEPT. 20TH - NOV. 1ST) (REFERENCE MNDOT SEEDING MANUAL FOR ADDITIONAL SEEDING INFORMATION)
9) TEMPORARY SEED WITH MNDOT MIX 22-111 (MAY 1ST THRU AUGUST 1ST) OR MNDOT MIX 22-112 (AUGUST 1ST THRU OCTOBER 1ST) AT A RATE OF 100LB/ACRE. INCLUDING DISK ANCHORED MULCH ON ALL SLOPES GREATER THAN 200' OR 5%.
10) PER CURRENT MPCA REQUIREMENTS. CONCRETE WASHOUTS, WHICH PROHIBIT WASHOUT LIQUID AND SOLID WASTES FROM CONTACTING THE GROUND AND ENTERING THE GROUNDWATER, MAY BE; APPROVED FACILITIES OFFSITE, PORTABLE ONSITE FACILITIES, OR FACILITIES CONSTRUCTED ONSITE. ON SITE CONSTRUCTED FACILITIES SHALL HAVE A LEAK-PROOF, IMPERMEABLE LINER AND FOLLOW THE CONSTRUCTION, MAINTENANCE AND REMOVAL PROCESSES AS RECOMMENDED ON THE MPCA WEBSITE (HTTP: //WWW.PCA.STATE.MN.US/PUBLICATIONS/WQ-STRM2-24.PDF).
11) OWNER HAS BEEN MADE AWARE THAT THERE ARE DESIGN SLOPES LESS THAN 2% AND ACCEPTS ANY ISSUES THAT MAY RESULT FROM THIS DESIGN.
12) DITCHES WITHIN 200' OF SURFACE WATER OR PROPERTY LINE STABILIZED IN 24 HOURS AFTER CONNECTION.
13) SLOPES STEEPER THAN 4:1 AND 4:1 SLOPES LONGER THAN 30' ARE SEEDED AND PROTECTED WITH EROSION CONTROL BLANKETS OR SODDED AND STAKED. BLANKET CATEGORY 20 PER MNDOT 3885. SLOPES STEEPER THAN 4:1 ARE STABLE FROM LAND-SLIDING AND SURFACE EROSION.
14) MINIMIZE CONSTRUCTION TRAFFIC OVER UNPAVED AREAS OF THE SITE.
15) GOVERNING SPECIFICATIONS - THE MOST RECENT EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SUBJECT TO ANY AMENDMENTS & THEN 2020 EDITION OF THE "STANDARD UTILITIES SPECIFICATIONS" AS PER THE CITY ENGINEER'S ASSOCIATION OF MINNESOTA SHALL GOVERN, ALONG WITH ANY DESIGN CRITERIA LOCATED WITHIN THE OLMSTED COUNTY ZONING ORDINANCE. UNLESS OTHERWISE SPECIFIED WITHIN THIS PLAN.

GRADING PLAN LEGEND

- SOIL BORINGS / TEST PITS
- EXISTING SEPTIC CLEANOUT
- PROPOSED SEPTIC CLEANOUT
- PROPOSED DRAIN TILE CLEANOUT
- SIGNS
- COMMUNICATIONS BOX & MANHOLE
- ELECTRIC POLE & GUY WIRE
- EXISTING TREE
- TREELINE
- 1120 — MAJOR CONTOUR & LABEL
- 1118 — MINOR CONTOUR & LABEL
- 1120 — PROPOSED MAJOR CONTOUR & LABEL
- 1118 — PROPOSED MINOR CONTOUR & LABEL
- EXISTING SEPTIC LINE
- PROPOSED SEPTIC LINE
- STORM — EXISTING STORM CULVERT
- PROPOSED STORM CULVERT
- OVHE — OVERHEAD ELECTRIC LINES
- U.E. — UNDERGROUND ELECTRIC LINES
- TEL — UNDERGROUND COMMUNICATIONS LINE
- EXISTING FENCE
- TILE — TILE — PROPOSED DRAIN TILE
- EASEMENT LINE
- EXISTING RETAINING WALL
- EXISTING BITUMINOUS SURFACING
- EXISTING CONCRETE SURFACING
- EXISTING AGGREGATE SURFACING
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED PARKING/DRIVES
- SILT FENCE (PER ROCH. STD. PLATE 7-01)
- GL — GRADING LIMITS
- X 1060.00 — EXISTING SPOT ELEVATION
- X 1060.00 — PROPOSED SPOT ELEVATION
- 2.00% — PROPOSED SLOPE
- INLET BARRIER (PER ROCH. STD. PLATE 7-05)
- PROPOSED EROSION CONTROL BLANKET (PER MNDOT 3885 CAT. 20)
- ROCK CONSTRUCTION ENTRANCE (PER ROCH. STD. PLATE 7-06)
- RIP RAP (PER MNDOT 3134D)

IMPAIRED WATERS WITHIN ONE MILE:
NONE

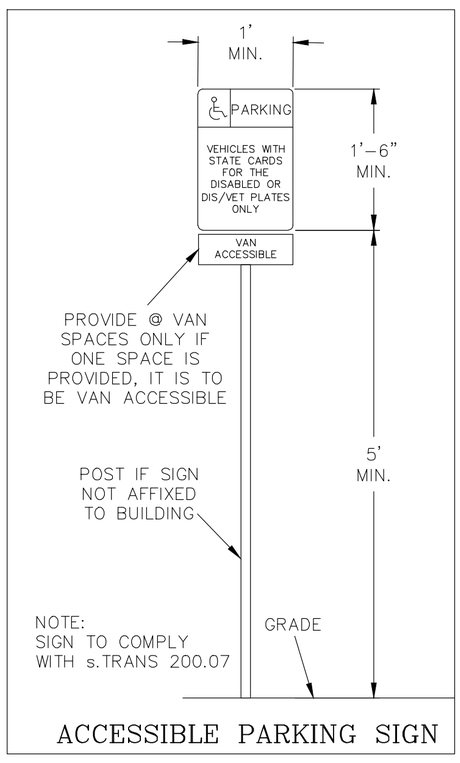
SPECIAL WATERS WITHIN ONE MILE:
NONE

OWNER
CANTERBURY FARM & EVENT CENTER
6425 85TH ST NW
PINE ISLAND, MN 55963
CONTACT: BERT & RACHEL OTTO
canterburyfarmevents@gmail.com
(507) 696-9301

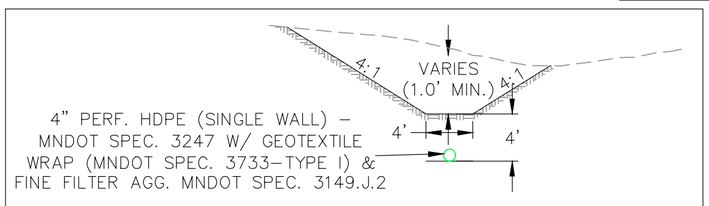
ENGINEER & SURVEYOR
G-CUBED INC.
14070 HWY. 52 SE
CHATFIELD, MN 55923
geoffg@ggg.to
(507) 867-1666 x102
jasonk@ggg.to
(507) 867-1666 x104

PROJECT CALCULATIONS:
TOTAL PROJECT AREA: 10.00 ACRES
TOTAL DISTURBED AREA: 3.80 ACRES
EXISTING IMPERVIOUS: 0.64 ACRES
NEW IMPERVIOUS: 1.38 ACRES
TOTAL IMPERVIOUS: 2.02 ACRES

ABBREVIATIONS DEFINED:
HP: HIGH POINT
LP: LOW POINT
EO: EMERGENCY OVERFLOW

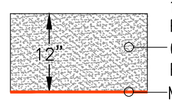


ACCESSIBLE PARKING SIGN



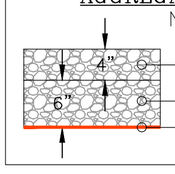
SWALE TYPICAL SECTION
NOT TO SCALE

BEACH TYPICAL SECTION
NOT TO SCALE



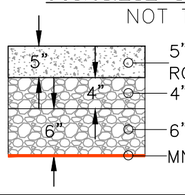
12" SAND COVER
REF. MNDOT 3149.2-12
(FREE OF STONE & HOLDS FORM WHEN WETTED)
MNDOT TYPE 5 GEOTEXTILE

AGGREGATE TYPICAL SECTION
NOT TO SCALE



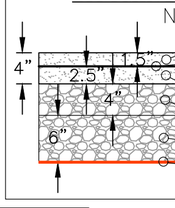
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE

CONCRETE TYPICAL SECTION
NOT TO SCALE



5" CONCRETE (REFER TO ROCH. STD. PLATE 2-14)
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE

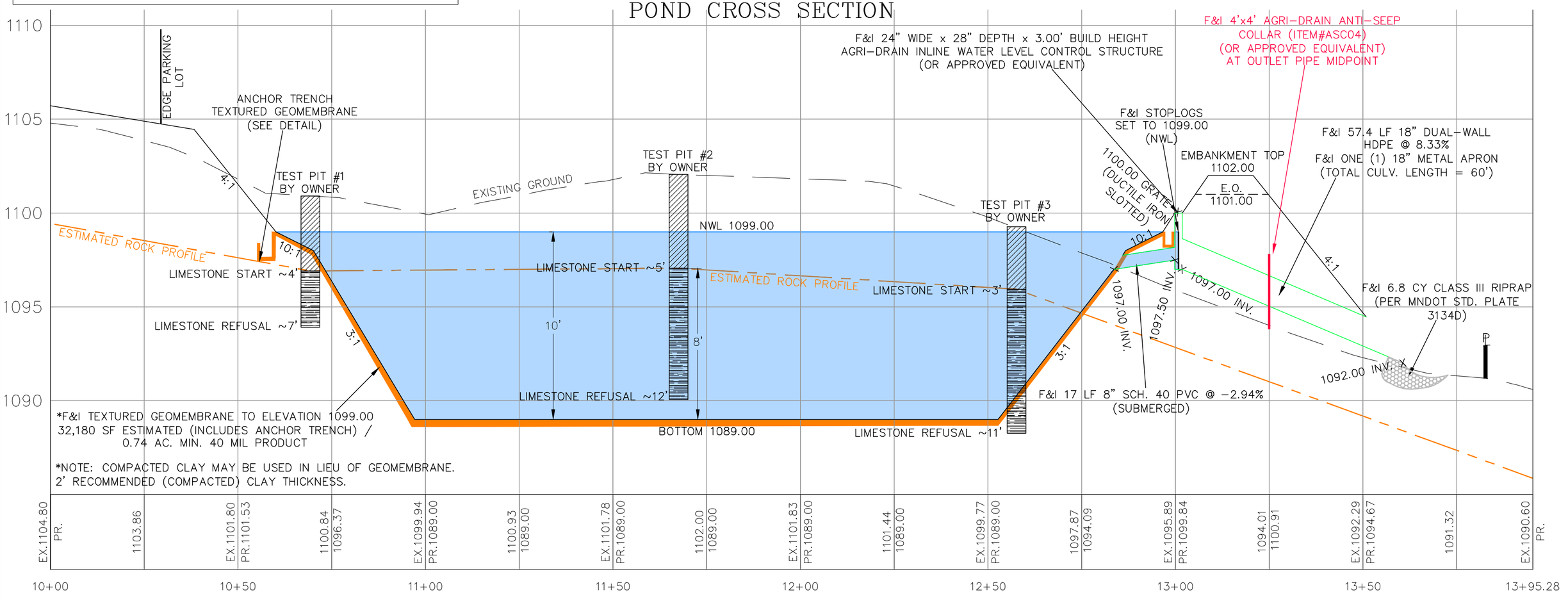
BITUMINOUS TYPICAL SECTION
NOT TO SCALE



1.5" BITUMINOUS BASE COURSE
TACK COAT LAYER REQUIRED BETWEEN BITUMINOUS LIFTS
2.5" BITUMINOUS WEAR COURSE
4" CLASS 5 OR 7 AGGREGATE (CV)
6" BREAKER RUN (CV)
MNDOT TYPE 7 GEOTEXTILE

WARNING
BEFORE DIGGING CALL GOPHER STATE ONE CALL FOR LOCATIONS.
DIAL - 1-800-252-1166
REQUIRED BY LAW

POND CROSS SECTION



*F&I TEXTURED GEOMEMBRANE TO ELEVATION 1099.00
32,180 SF ESTIMATED (INCLUDES ANCHOR TRENCH) /
0.74 AC. MIN. 40 MIL PRODUCT

*NOTE: COMPACTED CLAY MAY BE USED IN LIEU OF GEOMEMBRANE.
2' RECOMMENDED (COMPACTED) CLAY THICKNESS.

G-Cubed
14070 Hwy 52 S.E.
Chatfield, MN 55923
ENGINEERING
SURVEYING
PLANNING
Ph. 507-867-1666
Fax 507-867-1665
www.ggg.to

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JASON KAPPERS
DATE 04/16/2025 REG. NO. 62741

DESIGNED JWK
DRAWN JWK
CHECKED GGG

REVISED	BY	DATE
FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
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POND TEST PITS	JWK	04/08/25
TCPA SUBMITTAL	JWK	04/16/25

CANTERBURY FARM & EVENT CENTER
LEGEND, NOTES, TYPICALS

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER
(NEAR SOUTHWEST PROPERTY CORNER)

3885.2 REQUIREMENTS

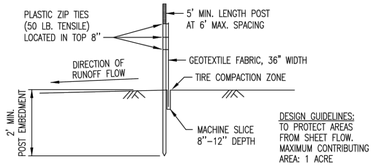
A Temporary Erosion Prevention Blanket

Use only natural fibers in the manufacture of netting and fill Material for temporary products. Provide blankets that conform to the general requirements listed in Table 3885.2-1, Table 3885.2-2, and Table 3885.2-3.

Table 3885.2-1
Temporary, Straw-based Products

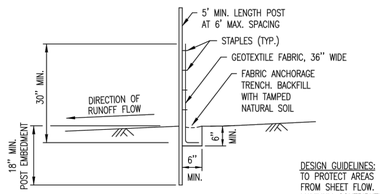
Criteria	Category 10	Category 20	Category 30
Net Number (upper/lower)	1	2	2
Fiber Fill Material	100 percent Straw	100 percent Straw	70 percent Straw, 30 percent Coconut/hemp
Mass, minimum*ǂ (pound per square yard)	0.43	0.43	0.42
Reported Fiber Length, 80 percent greater than (inch)	3	3	3
Reported Functional Longevity, 75 percent remaining (month)	3	4.5	9
Reported Target Service Life (month)	4	9	12
Permissible shear, unvegetated# (pound per square foot)	1.50	1.75	2.00
Flow, probable maximum# (feet per second)	4.5	6	8
Machine Direction (MD) Tensile Strength, minimum§ (pounds per foot)	130	170	200
TD Tensile Strength, minimum§ (pounds per foot)	80	130	150
Permissible Anchor Type	Wood or biodegradable ‖ plant based plastic barbed, glue, U or round head metal, 11-13 gage	U or round head metal, 11-13 gage, Washer/60D (6 inch) Nail†	Helical twist pin, Washer/60D (6 inch) Nail†
Minimum anchor embedment length	4 inches	6 inches	8 inches

*Dry mass at time of manufacture following ASTM protocols.
‖ Biodegradable means the product will decompose under ambient soil conditions into carbon dioxide, water, and other naturally occurring Materials within one year of installation.
†Winter Utilization.
ǂ *ASTM D6475, Mass per Unit Area of Erosion Control Blankets.*
ASTM D6460, Performance in Protecting Earthen Channels from Stormwater-Induced Erosion.
§ *ASTM D6818, Ultimate Tensile Properties of Rolled Erosion Control Products.*



SILT FENCE TYPE MS
(MACHINE SLICED)

DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 1 ACRE



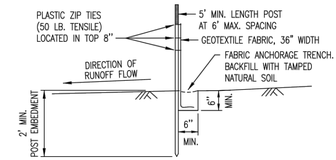
SILT FENCE TYPE PA
(PREASSEMBLED)

DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 0.25 ACRE

REFERENCE: MN/DOT SPEC. 2573 & 3886

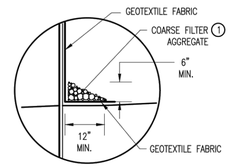
DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
SILT FENCE DETAILS
TYPES MS AND PA
CITY ENGINEER

SHT 1 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-01	REV. F



SILT FENCE TYPE HI
(HAND INSTALLED)

DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 1 ACRE



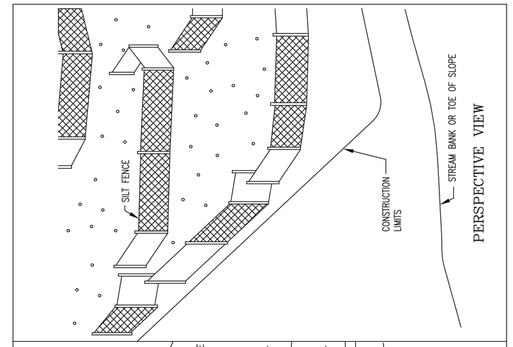
OPTIONAL METHOD

① COARSE FILTER AGGREGATE (MN/DOT SPEC. 3149) SHALL BE INCIDENTAL.

REFERENCE: MN/DOT SPEC. 2573 & 3886

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
SILT FENCE DETAILS
CITY ENGINEER

SHT 2 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-01	REV. F



REFERENCE: MN/DOT SPEC. 2573 & 3886

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
SILT FENCE DETAILS–
J-HOOK INSTALLATION
CITY ENGINEER

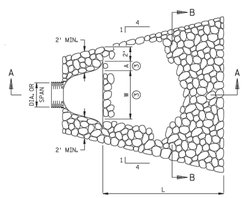
SHT 3 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-01	REV. F

TABLE OF QUANTITIES
RIPRAP AT CSP OUTLETS

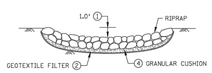
DIA. OF ROUND PIPE (IN.)	L (FT.)	CLASS II d_{50} = 6" GEO-TEXTILE FILTER (SQ.YD.)	CLASS II d_{50} = 6" GRANUL FILTER UNDER APRON (CU.YD.)	CLASS II d_{50} = 6" 12" DEPTH RIPRAP (CU.YD.)	CLASS III d_{50} = 9" GEO-TEXTILE FILTER (SQ.YD.)	CLASS III d_{50} = 9" GRANULAR FILTER UNDER APRON (CU.YD.)	CLASS III d_{50} = 9" 18" DEPTH RIPRAP (CU.YD.)	CLASS IV d_{50} = 12" GEO-TEXTILE FILTER (SQ.YD.)	CLASS IV d_{50} = 12" GRANUL FILTER UNDER APRON (CU.YD.)	CLASS IV d_{50} = 12" 24" DEPTH RIPRAP (CU.YD.)
12	8	16.4	0.2	3.0	19.2	0.2	4.5	22.3	0.3	6.0
15	8	17.8	0.2	3.3	20.7	0.3	4.9	23.9	0.4	6.6
18	10	22.9	0.3	4.6	26.2	0.5	6.8	29.7	0.6	9.1
21	10	24.5	0.4	4.9	27.9	0.6	7.3	31.5	0.8	9.7
24	12	30.4	0.5	6.4	34.2	0.8	9.5	38.2	1.0	12.7
30	14	38.9	0.8	8.5	43.2	1.2	12.7	47.7	1.5	16.9
36	16	48.3	1.1	10.8	53.1	1.6	16.2	58.1	2.1	21.6
42	18	59.7	1.5	13.5	64.0	2.2	20.2	69.5	2.9	27.0
48	20	68.5	1.8	16.0	74.2	2.7	24.0	80.1	3.5	32.0

TABLE OF QUANTITIES
RIPRAP AT CSP-A OUTLETS

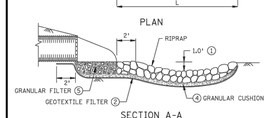
SPAN OF PIPE ARCH (IN.)	L (FT.)	CLASS II d_{50} = 6" GEO-TEXTILE FILTER (SQ.YD.)	CLASS II d_{50} = 6" GRANUL FILTER UNDER APRON (CU.YD.)	CLASS II d_{50} = 6" 12" DEPTH RIPRAP (CU.YD.)	CLASS III d_{50} = 9" GEO-TEXTILE FILTER (SQ.YD.)	CLASS III d_{50} = 9" GRANULAR FILTER UNDER APRON (CU.YD.)	CLASS III d_{50} = 9" 18" DEPTH RIPRAP (CU.YD.)	CLASS IV d_{50} = 12" GEO-TEXTILE FILTER (SQ.YD.)	CLASS IV d_{50} = 12" GRANUL FILTER UNDER APRON (CU.YD.)	CLASS IV d_{50} = 12" 24" DEPTH RIPRAP (CU.YD.)
17	8	18.7	0.2	3.1	20.1	0.3	4.7	23.2	0.3	6.3
21	10	21.9	0.3	4.5	25.1	0.4	6.7	28.6	0.5	9.0
24	10	23.5	0.3	4.9	26.8	0.5	7.4	30.4	0.6	9.8
28	12	29.2	0.4	6.4	32.9	0.6	9.6	36.8	0.8	12.9
35	14	36.8	0.6	8.5	41.0	0.9	12.8	45.4	1.2	17.1
42	16	46.5	0.9	11.2	51.1	1.3	16.8	56.0	1.7	22.5
49	18	55.5	1.1	13.8	60.6	1.7	20.7	66.0	2.2	27.6
57	20	66.6	1.5	17.0	72.2	2.3	25.5	78.0	3.0	34.0



PLAN



SECTION B-B



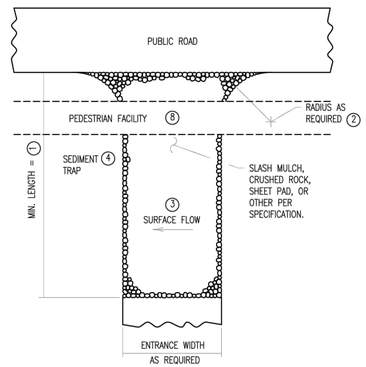
SECTION A-A

NOTES:
REQUIREMENTS FOR GEOTEXTILE TYPE, RIPRAP SIZE AND THICKNESS SHALL BE DESIGNATED IN THE PLANS.

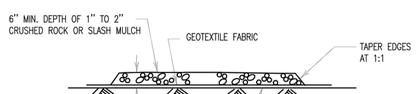
PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.

① FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'.
② GEOTEXTILE FILTER, SPEC. 3733, SHALL COVER THE BOTTOM AND SIDES OF THE AREA EXCAVATED FOR THE RIPRAP, GRANULAR FILTER MATERIALS.
③ DIMENSIONS W AND A ARE GIVEN ON STANDARD PLATES 3122 AND 3123.
④ GRANULAR FILTER, SPEC. 3601, MAY BE USED AS A CUSHION LAYER. PLACE FILTER PER SPEC. 2511. THE CUSHION LAYER IS INCIDENTAL.
⑤ GRANULAR FILTER OR RIPRAP, SPEC. 3601, TO EXTEND UNDER ENTIRE OPEN PORTION OF PIPE APRON. DEPTH OF MATERIAL UNDER APRON SHALL MATCH RIPRAP DEPTH. WHEN USING RIPRAP INCREASE RIPRAP QUANTITY ACCORDINGLY AND PLACE A 3" LAYER OF 1.5" CRUSHED ROCK UNDER THE APRON TO AID IN GRADING FOR APRON PLACEMENT. CRUSHED ROCK IS INCIDENTAL.

APPROVED DECEMBER 9, 2013	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
STATE DESIGN ENGINEER	RIPRAP AT CSP OUTLETS	3123 3122 3601 3733 2511	3134D



SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT ⑤⑦

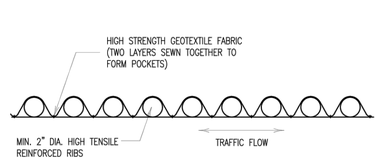


SLASH MULCH OR CRUSHED ROCK

SEE SHEET 2 OF 3 FOR DETAIL NOTES

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXITS
CITY ENGINEER

SHT 1 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-06	REV. F



SHEET PAD

NOTES:
SEE MN/DOT SPECS. 2573 & 3882.

① MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.

② PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.

③ IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.

④ IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.

⑤ IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.

⑥ MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.

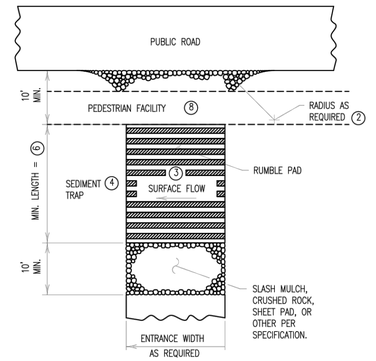
⑦ MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

⑧ EXISTING PEDESTRIAN FACILITY SHALL BE MAINTAINED TO PROVIDE A PASSABLE SURFACE FOR PEDESTRIANS.

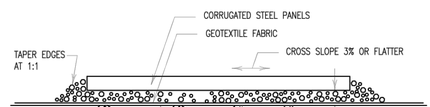
9. CLEAN PAVED STREETS AND PEDESTRIAN FACILITIES AT THE END OF EACH WORKING DAY, OR MORE FREQUENTLY AS NECESSARY TO PROVIDE SAFETY TO THE TRAVELING PUBLIC.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
TEMP. SEDIMENT CONTROL CONSTRUCTION EXITS
CITY ENGINEER

SHT 2 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-06	REV. F



RUMBLE PAD
CONSTRUCTION EXIT ⑤⑦



RUMBLE PAD

SEE SHEET 2 OF 3 FOR DETAIL NOTES

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
RUMBLE PAD CONSTRUCTION EXITS
CITY ENGINEER

SHT 3 OF 3 SHTS	DATE REVISED 1/1/23	PLATE NO. 7-06	REV. F

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON KAPPERS
DATE 04/16/2025 REG. NO. 62741

DATE: 04/16/2025
Prepared For:
CANTERBURY FARM & EVENT CENTER
6425 85TH ST NW
PINE ISLAND, MN 55963
FILE NO.:23-289 BASE

G-Cubed
14070 Hwy 52 S.E.
Chatfield, MN 55923
ENGINEERING
SURVEYING
PLANNING
Ph. 507-867-1666
Fax 507-867-1665
www.ggg.to

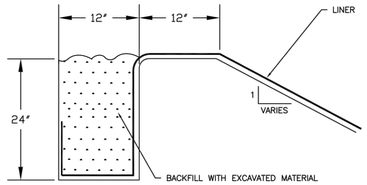
DESIGNED JWK
DRAWN JWK
CHECKED GGG

REVISED	BY	DATE
FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
SWCD COMMENTS	JWK	03/24/25
POND TEST PITS	JWK	04/08/25
TCPA SUBMITTAL	JWK	04/16/25

OLMSTED COUNTY
NEW HAVEN TOWNSHIP

CANTERBURY FARM & EVENT CENTER
STANDARD PLATES

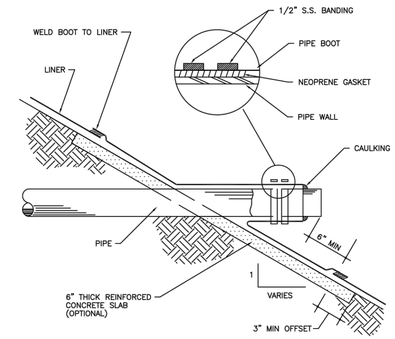
BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER (NEAR SOUTHWEST PROPERTY CORNER)



STANDARD ANCHOR TRENCH

N.T.S.

DRAWN BY M.A.	clean air and water systems WWW.CAAWSYSTEMS.COM 123 ELM STREET PO BOX 337 DOUSMAN, WI 53118 262-965-4366	STANDARD ANCHOR TRENCH DETAIL	
SCALE N.T.S.			
JOB #		FILENAME DETAIL	DRAWING NUMBER D-2



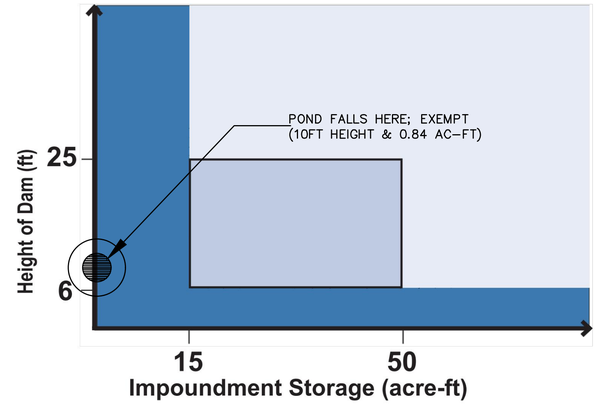
STANDARD PIPE PENETRATION

N.T.S.

DRAWN BY M.A.	clean air and water systems WWW.CAAWSYSTEMS.COM 123 ELM STREET PO BOX 337 DOUSMAN, WI 53118 262-965-4366	LINER DETAILS	
SCALE N.T.S.			
JOB #		FILENAME DETAIL	DRAWING NUMBER D-1

Dams Subject to DNR Dam Safety Regulations

Federally-owned dams and non-hazard dams are exempt



Exempt from DNR Dam Safety Regulations

Subject to DNR Dam Safety Regulations but exempt from DNR Dam Safety Permit requirements if no potential for loss of life

Subject to all DNR Dam Safety Regulations

NOTE: a public waters work permit may be required

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON KAPPERS

DATE 04/16/2025 REG. NO. 62741

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FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
SWCD COMMENTS	JWK	03/24/25
POND TEST PITS	JWK	04/08/25
TCPA SUBMITTAL	JWK	04/16/25

OLMSTED COUNTY
NEW HAVEN TOWNSHIP

CANTERBURY FARM & EVENT CENTER
STANDARD PLATES

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER (NEAR SOUTHWEST PROPERTY CORNER)

I. GENERAL CONSTRUCTION ACTIVITY INFORMATION:

A. PROJECT NAME: CANTERBURY FARM & EVENT CENTER

B. DESCRIBE THE PROJECT LOCATION (ADDRESS/CITY OR TOWNSHIP/COUNTY/LATITUDE/LONGITUDE):
ADDRESS OR DESCRIBE AREA: SEC. 25 – T108N – R15W; PID#85.25.43.038848
CITY OR TOWNSHIP: NEW HAVEN TOWNSHIP STATE: MN ZIP CODE: 55963
LATITUDE/LONGITUDE OF APPROXIMATE CENTROID OF PROJECT: 44°07'26.85"N | 92°34'01.81"W

C. DESCRIBE THE CONSTRUCTION ACTIVITY (TYPE OF CONSTRUCTION, PHASES, TIMELINES, POTENTIAL FOR DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS, ETC.):
THIS PROJECT IS FOR IMPROVEMENTS RELATED TO THE CANTERBURY FARM & EVENT CENTER. NEW DRIVEWAY, PARKING LOT & POND CONSTRUCTION AS WELL AS MODIFICATION/ADDITION TO AN EXISTING STRUCTURE IS PROPOSED. A NEW SEPTIC WILL BE CONSTRUCTED TO TREAT WASTEWATER GENERATED FROM THE EVENT CENTER. THIS PROJECT WILL BE COMPLETED IN ONE PHASE DURING THE SPRING/SUMMER 2025, BARRING APPROVALS AT THE TOWNSHIP AND COUNTY LEVELS. THE POTENTIAL FOR DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS IS MINIMAL PROVIDED THE GRADING AND EROSION CONTROL PLAN PREPARED FOR THE PROJECT IS ADHERED TO.

D. NUMBER OF TOTAL ACRES TO BE DISTURBED: 3.80 ACRES

E. PRE-CONSTRUCTION ACRES OF IMPERVIOUS SURFACE: 0.64 ACRES

F. POST-CONSTRUCTION ACRES OF IMPERVIOUS SURFACE: 2.02 ACRES

G. TOTAL NEW IMPERVIOUS SURFACE AREAS: 1.38 ACRES

II. RECEIVING WATERS:

A. LIST ALL WATERS WITHIN ONE MILE (NEAREST STRAIGHT-LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE BOTH DURING OR AFTER CONSTRUCTION.

WATER BODY ID	NAME OF WATER BODY	TYPE	SPECIAL WATER?	IMPAIRED WATER?
NONE	NONE	N/A	N/A	N/A

MPCA's Construction Stormwater Special Waters Search

III. PROJECT PLANS & SPECIFICATIONS:

A. SITE PLAN, GRADING & EROSION CONTROL PLAN SETS, AS WELL AS A DRAINAGE REPORT HAVE BEEN PREPARED FOR THIS PROJECT. THIS SWPPP SHALL BE A PART OF THE PLANS AND ON-SITE WITH THE CONTRACTOR DURING ACTIVE CONSTRUCTION. THE DRAINAGE REPORT INCLUDES ALL STORMWATER CALCULATIONS FOR COMPLIANCE WITH THE NPDES PERMIT AND ARE AVAILABLE AT THE OFFICE OF THE ENGINEER. JASON KAPPERS OF G-CUBED MAY BE CONTACTED VIA EMAIL FOR ELECTRONIC COPIES OF THE PLANS, SPECIFICATIONS AND DRAINAGE REPORT (jasonk@ggg.to).

IV. ENVIRONMENTAL REVIEW

A. WAS AN ENVIRONMENTAL REVIEW REQUIRED FOR THIS PROJECT OR ANY PART OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT INCLUDES THIS PROJECT?
YES

1. IF YES, IS THE ENVIRONMENTAL REVIEW PROCESS COMPLETE? (NOTE: APPLICATION FOR NPDES PERMIT MAY NOT BE MADE UNTIL REVIEWS/APPROVALS ARE COMPLETE)
YES
2. WHO IS THE RESPONSIBLE GOVERNMENTAL UNIT (E.G. CITY, TOWNSHIP, COUNTY, STATE OR FEDERAL AGENCY)?
OLMSTED COUNTY SWCD
3. WHAT IS THE TYPE OF ENVIRONMENTAL REVIEW DOCUMENT? (E.G. WETLAND DELINEATION, ENVIRONMENTAL REPORT, EAW, EIS, AUAR, OTHER)?
SITE ASSESSMENT FOR HYDRIC SOILS & DECORAH EDGE FEATURES
4. COMPLETION DATE FOR ENVIRONMENTAL REVIEW? (MM/DD/YYYY)
05/03/2023 – OLMSTED SWCD & OLMSTED COUNTY PLANNING STAFF SITE ASSESSMENT FOR HYDRIC SOILS
09/27/2024 – GGG STAFF SITE ASSESSMENT FOR DECORAH EDGE & WETLAND FEATURES
5. HAS MITIGATION IDENTIFIED IN THE ENVIRONMENTAL REVIEW BEEN INCORPORATED INTO THE SWPPP?
YES

V. TEMPORARY EROSION PREVENTION PRACTICES:

A. DESCRIBE THE TEMPORARY EROSION PREVENTION BMPs EXPECTED TO BE IMPLEMENTED ON THIS SITE DURING CONSTRUCTION:

1. METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES:
SOILS SHALL BE TEMPORARILY STABILIZED USING DISC ANCHORED MULCH, EROSION CONTROL BLANKET OR AN APPROVED EQUIVALENT. SOIL STOCKPILES SHALL BE TEMPORARILY STABILIZED USING SIMILAR MEASURES, BUT COULD ALSO INCLUDE PLASTIC SHEETING OR TARP.
2. METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS:
ALL DITCH/SWALE WETTED PERIMETERS SHALL BE LINED WITH EROSION CONTROL BLANKET. ROCK CHECKS MAY ALSO BE USED AS A REDUNDANT BMP SHOULD EROSIVE CONDITIONS BE PRESENT AND WARRANT THEIR INSTALLATION.
3. METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS:
RIP RAP SHOULD BE UTILIZED AT ALL PIPE OUTLETS AND BE INSTALLED WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER OR PROPERTY EDGE. RIP RAP SHOULD FOLLOW STANDARD INSTALLATION PRACTICES TO ENSURE UNDERMINING OF PIPE OUTLETS AND WASHOUTS DO NOT OCCUR.
4. METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE DISCHARGE, UNLESS INFEASIBLE:
CONSTRUCTION SHOULD BE PHASED SUCH THAT ONLY PORTIONS OF THE SITE THAT NEED TO BE DISTURBED ARE DISTURBED AND THAT CONSTRUCTION VEHICLES AND EQUIPMENT MINIMIZE TRAVEL OVER GREEN SPACE AREAS. NON-COMPACTED SOILS AND DIRECTING STORMWATER FLOW TO VEGETATED AREAS ARE BMPs IN THEMSELVES AS BOTH PROMOTE INFILTRATION OF STORMWATER INTO SOIL.

B. DESCRIBE TIMELINES TO BE IMPLEMENTED AT THIS SITE FOR COMPLETING THE INSTALLATION OF THE EROSION PREVENTION BMPs LISTED UNDER SECTION V.
PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE. ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED IN CONJUNCTION WITH PERIMETER CONTROLS TO ENSURE TRACKING ON PUBLIC ROADWAYS IS MINIMIZED OR NON-EXISTENT. ONCE THE SITE IS DEVELOPED AS SHOWN ON THE PLANS, THE SLOPES SHALL BE SEEDED, FERTILIZED AND BLANKETED IMMEDIATELY UPON FINISHING GRADING. STABILIZATION SHALL BE COMPLETE WITHIN 14 CALENDAR DAYS. ONCE FLATTER AREAS ARE GRADED, THEY SHOULD BE SEEDED AND HAVE MULCH DISC ANCHORED WITH STABILIZATION ALSO BEING COMPLETE WITHIN 14 CALENDAR DAYS. INLET PROTECTION SHALL BE USED AT ALL NEW INLETS WITHIN THE PROJECT AS THEY ARE INSTALLED TO KEEP SEDIMENT TRANSPORT MINIMIZED.

C. DESCRIBE ADDITIONAL EROSION PREVENTION MEASURES THAT WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION:
DEVELOPMENT SHOULD BE PHASED SUCH THAT ONLY ACTIVE AREAS ARE DISTURBED TO PREVENT ANY EROSION ISSUES. PROPER CONSTRUCTION PHASING IS IMPORTANT IN THAT IT GREATLY REDUCES THE POTENTIAL FOR SEDIMENT TO TRAVEL OFF-SITE. ADDITIONALLY, ALL AREAS THAT ARE PROPOSED GREEN SPACE/VEGETATIVE SHOULD BE KNOWN BY THE CONTRACTOR SUCH THAT CONSTRUCTION EQUIPMENT AND VEHICLES MINIMIZE SOIL COMPACTION OVER THOSE AREAS.

VI. TEMPORARY SEDIMENT CONTROL PRACTICES:

A. DESCRIBE THE METHODS OF SEDIMENT CONTROL BMPs TO BE IMPLEMENTED AT THIS SITE DURING CONSTRUCTION TO MINIMIZE SEDIMENT IMPACTS TO SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS.

1. METHODS TO BE USED FOR DOWN-GRADIENT PERIMETER CONTROL:
DOWN-GRADIENT PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UP-GRADIENT LAND DISTURBING ACTIVITY AND SHALL REMAIN IN-PLACE UNTIL PERMANENT COVER IS ESTABLISHED.
2. METHODS TO BE USED TO CONTAIN SOIL STOCKPILES:
SILT FENCE, BIOROLLS OR APPROVED EQUIVALENT SHALL BE INSTALLED AT THE BASE OF STOCKPILES ON THE DOWN-GRADIENT PERIMETER. REDUNDANT BMPs SUCH AS PLASTIC SHEETING OR TARP COULD ALSO BE USED IF THE SOIL STOCKPILE(S) ARE HIGHLY ERODABLE.
3. METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION:
INLET BAGS, INLET BOXES OR APPROVED ALTERNATIVES SHALL BE USED FOR STORM DRAIN INLET PROTECTION.
4. METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES:
ROCK CONSTRUCTION PADS SHOULD BE INSTALLED AT ALL ENTRANCES TO THE SITE TO MITIGATE OR HALT THE TRACKING OF SEDIMENT ON PUBLIC ROADWAYS. IF SEDIMENT IS TRACKED ONTO PUBLIC ROADWAYS, THEY SHOULD BE SWEPT WITHIN ONE (1) CALENDAR DAY OF DISCOVERY.
5. IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS TO BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION OR FILTRATION AREAS WHEN EXCAVATED PRIOR TO FINAL STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.
N/A
6. DESCRIBE METHODS TO BE USED TO MINIMIZE SOIL COMPACTION AND PRESERVE TOP SOIL (UNLESS INFEASIBLE) AT THIS SITE:
THE CONTRACTOR SHOULD BE MADE AWARE AND UNDERSTAND WHERE THE AREAS OF PROPOSED GREEN SPACE/VEGETATIVE COVER ARE LOCATED AND LIMIT THEIR TRAVEL OVER THESE AREAS TO MINIMIZE SOIL COMPACTION.
7. DESCRIBE PLANS TO PRESERVE A 50-FOOT NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE AND A SURFACE WATER OR PLANS FOR REDUNDANT SEDIMENT CONTROLS IF A BUFFER IS INFEASIBLE:
N/A
8. DESCRIBE PLANS FOR USE OF SEDIMENTATION TREATMENT CHEMICALS:
N/A; SEDIMENTATION TREATMENT CHEMICALS ARE STRICTLY PROHIBITED ON-SITE.

B. IS THE PROJECT REQUIRED TO INSTALL A TEMPORARY SEDIMENT BASIN DUE TO 10 OR MORE ACRES DRAINING TO A COMMON LOCATION OR 5 ACRES OR MORE IF THE SITE IS WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER?
NO
IF YES, DESCRIBE HOW THE BASIN WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 14 [OF THE NPDES PERMIT]:
N/A

C. WILL THE PROJECT INCLUDE DEWATERING, BASIN DRAINING?
NO

D. WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER?
NO

VII. PERMANENT STORMWATER MANAGEMENT SYSTEM:

A. WILL THE PROJECT RESULT IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULT IN ONE ACRE OR MORE OF NEW IMPERVIOUS IN TOTAL IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT?
YES

B. IF YES, A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE CUMULATIVE NEW IMPERVIOUS SURFACES MUST BE RETAINED ON-SITE (SEE SECTION 15 OF THE PERMIT) THROUGH INFILTRATION UNLESS PROHIBITED DUE TO ONE OF THE REASONS IN ITEM 16.14 THROUGH ITEM 16.21. IF INFILTRATION IS PROHIBITED, IDENTIFY OTHER METHODS OF STORMWATER TREATMENT USED (e.g., FILTRATION SYSTEM, WET SEDIMENTATION BASIN, REGIONAL PONDING, OR EQUIVALENT METHOD):
A TOTAL OF 1.2 ACRES OF NEW IMPERVIOUS WILL BE INTRODUCED TO THE SITE IN THE FORM OF PRIVATE DRIVEWAYS, PARKING LOTS AND BUILDING ADDITIONS. THE TOTAL IMPERVIOUS ON THE SITE IS 1.8 ACRES WHICH CORRESPONDS TO A WATER QUALITY VOLUME (WQV) OF 6,571 CU. FT. THE PROPOSED POND, DETAILED IN THE DRAINAGE REPORT, WILL PROVIDE PERMANENT STORMWATER TREATMENT AND RATE CONTROL.

C. ATTACHED DESIGN PARAMETERS FOR THE PLANNED PERMANENT STORMWATER MANAGEMENT SYSTEM, INCLUDING VOLUME CALCULATIONS, DISCHARGE RATE CALCULATION, CONSTRUCTION DETAILS INCLUDING BASIN DEPTH, OUTLET CONFIGURATIONS, LOCATION, DESIGN OF PRE-TREATMENT DEVICES AND TIMING FOR INSTALLATION.
REFER TO THE DRAINAGE REPORT FOR CALCULATIONS PERTAINING TO THE NPDES PERMIT AND TOWNSHIP COMPLIANCE.

VIII. INSPECTION & MAINTENANCE ACTIVITIES

A. IDENTIFY THE TRAINED INDIVIDUAL(S) RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPs AT THE SITE:

G-CUBED, INC.:
JASON KAPPERS, MARK WELCH, ANDREW BUCK, RYAN MCCORMICK, JACOB FRANK, AUSTIN HINES

CONTRACTOR:
_____

B. ATTACH TRAINING DOCUMENTATION FOR EACH INDIVIDUAL (SEE BELOW FOR G-CUBED, INC. TRAINED INDIVIDUALS):

G-CUBED, INC. TRAINED INDIVIDUALS

UNIVERSITY OF MINNESOTA **Jason W. Kappers** Construction Site Management (May 31 2027) Design of Construction SWPPP (May 31 2027)	UNIVERSITY OF MINNESOTA **Mark R. Welch** Construction Installer (May 31 2027) Construction Site Management (May 31 2027) Design of Construction SWPPP (May 31 2025)	UNIVERSITY OF MINNESOTA **Jacob Frank** Construction Site Management (May 31 2026) Design of Construction SWPPP (May 31 2025)
UNIVERSITY OF MINNESOTA **Andrew Buck** Construction Site Management (May 31 2026) Design of Construction SWPPP (May 31 2025)	UNIVERSITY OF MINNESOTA **Austin Hines** Construction Site Management (May 31 2025) Design of Construction SWPPP (May 31 2025)	UNIVERSITY OF MINNESOTA **Ryan McCormick** Construction Site Management (May 31 2025) Design of Construction SWPPP (May 31 2025)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
JASON KAPPERS
DATE 04/16/2025 REG. NO. 62741

DATE: 04/16/2025
Prepared For:
CANTERBURY FARM & EVENT CENTER
6425 85TH ST NW
PINE ISLAND, MN 55963
FILE NO.:23-289 BASE

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DESIGNED JWK
DRAWN JWK
CHECKED GGG

REVISED	BY	DATE
FINAL REV.	JWK	11/27/24
OWNER COMMENT	JWK	01/27/25
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OLMSTED COUNTY
NEW HAVEN TOWNSHIP

CANTERBURY FARM & EVENT CENTER
SWPPP

BENCHMARK: 1127.723
CENTER OF 'Q' ON QWEST MANHOLE COVER (NEAR SOUTHWEST PROPERTY CORNER)

VIII. INSPECTION & MAINTENANCE ACTIVITIES (CONTINUED):

C. DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE, INCLUDING:

1. A DESCRIPTION OF RECORD-KEEPING REQUIREMENTS AND CONTENT: (SEE ITEM 11.12):
RECORD-KEEPING REQUIREMENTS SHALL ADHERE TO SECTION 11.12 OF THE NPDES PERMIT:
SECTION 11.12
PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:
a. DATE AND TIME OF INSPECTIONS; AND
b. NAME OF PERSONS CONDUCTING INSPECTIONS; AND
c. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND
d. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND
e. DATE OF ALL RAINFALL EVENTS GREATER THAN ½ INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ON-SITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF THE SITE LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND
f. IF PERMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (i.e. COLOR, ODOR, SETTLED OR UNSETTLED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS); AND
g. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS; AND
h. ALL PHOTOGRAPHS OF DEWATERING ACTIVITIES AND DOCUMENTATION OF NUISANCE CONDITIONS RESULTING FROM DEWATERING ACTIVITIES AS DESCRIBED IN SECTION 10. [MINN. R. 7090].

2. FREQUENCY OF INSPECTIONS (SEE ITEM 11.2 AND ITEM 11.11 OF THE PERMIT):
FREQUENCY OF INSPECTIONS SHALL ADHERE TO SECTIONS 11.2 AND 11.11 OF THE NPDES PERMIT:
SECTION 11.2
PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.b, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN ½ INCH IN 24 HOURS. [MINN. R. 7090]

SECTION 11.11
PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE AS DESCRIBED IN 11.2 AS FOLLOWS:
a. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF CONSTRUCTION ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR
b. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE; INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR
c. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
d. FOR PROJECTS WHERE A POLLINATOR HABITAT OR NATIVE PRAIRIE TYPE VEGETATED COVER IS BEING ESTABLISHED, INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH IF THE SITE HAS TEMPORARY VEGETATION WITH A DENSITY OF 70% TEMPORARY UNIFORM COVER. IF AFTER 24 MONTHS NO SIGNIFICANT EROSION PROBLEMS ARE OBSERVED, INSPECTIONS MAY BE SUSPENDED COMPLETELY UNTIL THE TERMINATION REQUIREMENTS IN SECTION 13 HAVE BEEN MET. [MINN. R. 7090]

3. AREAS TO BE INSPECTED AND MAINTAINED (SEE ITEM 11.3 THROUGH 11.6 AND 11.9 OF THE PERMIT):
SECTION 11.3
a. PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPs. [MINN. R. 7090]

SECTION 11.4
a. PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPs WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THIS AREA. [MINN. R. 7090]

SECTION 11.5
DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. PERMITTEES MUST USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS. [MINN. R. 7090]

SECTION 11.6
PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. [MINN. R. 7090]

SECTION 11.9
PERMITTEES MUST INSPECT AND PHOTOGRAPH DEWATERING DISCHARGES AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS DURING OPERATION. DEWATERING DISCHARGES THAT ONLY LAST FOR MINUTES, AS OPPOSED TO HOURS, AND DO NOT REACH A SURFACE WATER, DO NOT REQUIRE PHOTOGRAPHS OR DOCUMENTATION. [MINN. R. 7090]

IX. POLLUTION PREVENTION MANAGEMENT MEASURES:

A. DESCRIBE PRACTICES FOR STORAGE OF BUILDING PRODUCTS AND LANDSCAPE MATERIALS WITH A POTENTIAL TO LEACH POLLUTANTS TO MINIMIZE EXPOSURE TO STORMWATER:
BUILDING PRODUCTS AND LANDSCAPE MATERIALS WITH A POTENTIAL TO LEACH POLLUTANTS SHALL BE PLACED UNDER COVER (i.e. PLASTIC SHEETING OR TEMPORARY ROOFS) OR BE PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.

B. DESCRIBE PRACTICES FOR STORAGE OF PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS:
PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS SHOULD ALSO BE PLACED UNDER COVER (i.e. PLASTIC SHEETING OR TEMPORARY ROOFS) OR BE PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.

C. DESCRIBE PRACTICES FOR STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS OR TOXIC WASTE (e.g., OIL, FUEL, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVE, ADDITIVES, CURING COMPOUNDS, AND ACIDS) ACCORDING TO MINN. R. CH. 7045, INCLUDING SECONDARY CONTAINMENT IF APPLICABLE:
HAZARDOUS MATERIALS AND TOXIC WASTE SHALL BE STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. DISPOSAL OF HAZARDOUS MATERIALS AND TOXIC WASTE SHALL BE AT APPROVED FACILITIES OR OTHERWISE APPROVED BY THE LGU.

D. DESCRIBE COLLECTION, STORAGE AND DISPOSAL OF SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035:
PER MINN. R. 7035.08, SUBP. 1, THE OWNER AND OCCUPANT OF ANY PREMISES, BUSINESS ESTABLISHMENT, OR INDUSTRY AND/OR THE REFUSE COLLECTION SERVICE ARE RESPONSIBLE FOR THE SATISFACTORY COLLECTION AND TRANSPORTATION OF ALL SOLID WASTE ACCUMULATED AT A PREMISE, BUSINESS ESTABLISHMENT, OR INDUSTRY TO A SOLID WASTE DISPOSAL, TRANSFER, OR PROCESSING FACILITY THAT IS AUTHORIZED TO ACCEPT THE WASTE.

PER MINN. R. 7035.08, SUBP. 2, VEHICLES OR CONTAINERS USED FOR THE COLLECTION AND TRANSPORTATION OF GARBAGE AND SIMILAR PUTRESCIBLE WASTES, OR REFUSE CONTAINING SUCH MATERIALS, MUST BE COVERED, LEAKPROOF, DURABLE, AND OF EASILY CLEANABLE CONSTRUCTION. THEY MUST BE CLEANED TO PREVENT NUISANCES, POLLUTION, OR INSECT BREEDING, AND MUST BE MAINTAINED IN GOOD REPAIR. VEHICLES OR CONTAINERS USED FOR THE TRANSPORTATION OF MUNICIPAL SOLID WASTE COMBUSTOR ASH MUST BE COVERED TO PREVENT FUGITIVE DUST EMISSIONS AND CONSTRUCTION TO PREVENT LEAKING OF FLUID WHICH HAS BEEN IN CONTACT WITH ASH.

E. DESCRIBE MANAGEMENT OF PORTABLE TOILETS TO PREVENT TIPPING AND DISPOSAL OF SANITARY WASTES IN ACCORDANCE WITH MINN. R. CH. 7041:
PORTABLE TOILETS MUST BE POSITIONED SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER. DISPOSAL OF SANITARY WASTES SHALL BE IN ACCORDANCE WITH MINN. R. CH. 7041.

F. DESCRIBE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES TO THAT WASTES DO NOT CONTACT THE GROUND:
CONCRETE WASHOUTS, WHICH PROHIBIT WASHOUT LIQUID AND SOLID WASTES FROM CONTACTING THE GROUND AND ENTERING THE GROUNDWATER, MAY BE; APPROVED FACILITIES OFFSITE, PORTABLE ONSITE FACILITIES, OR FACILITIES CONSTRUCTED ONSITE. ALL WASHOUT FACILITIES CONSTRUCTED ONSITE MUST BE IN APPROVED COMMUNAL LOCATIONS AND/OR LOCATED ON THE INDIVIDUAL LOT BEING DEVELOPED. ONSITE CONSTRUCTED FACILITIES SHALL HAVE A LEAK-PROOF, IMPERMEABLE LINER AND FOLLOW THE CONSTRUCTION, MAINTENANCE AND REMOVAL PROCESSES AS RECOMMENDED ON THE MPCA WEBSITE.

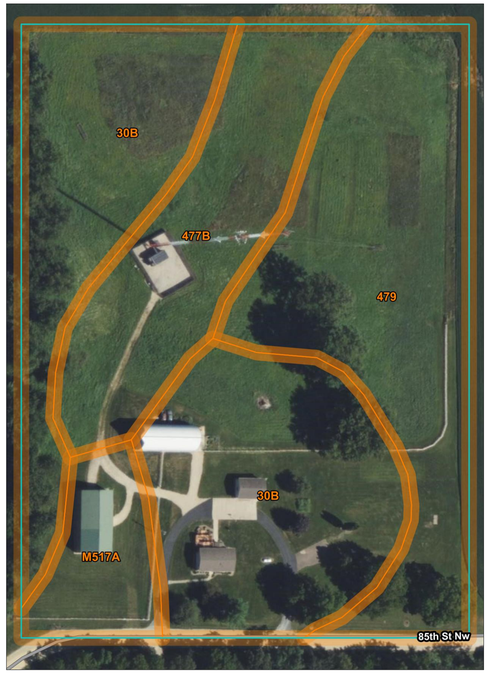
X. PERMIT TERMINATION CONDITIONS

A. DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS:
PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTED THE NOTICE OF TERMINATION (NOT). VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.

B. DESCRIBE METHODS USED TO CLEAN ALL STORMWATER TREATMENT SYSTEMS AND STORMWATER CONVEYANCE SYSTEMS OF ACCUMULATED SEDIMENT:
PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM AND STORMWATER CONVEYANCE SYSTEMS OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 OF THE PERMIT AND IS OPERATING AS DESIGNED.

C. DESCRIBE METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs:
COMMON METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs ARE ACCEPTABLE; SO LONG AS ALL TEMPORARY SYNTHETIC DEVICES ARE REMOVED PRIOR TO SUBMITTED THE NOTICE OF TERMINATION (NOT). PERMITTEES MAY LEAVE BMPs DESIGNED TO DECOMPOSE ON-SITE IN PLACE.

USDA NRCS WEB SOIL SURVEY MAP & MAP UNIT LEGEND



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
30B	Kenyon loam, 2 to 5 percent slopes	4.5	42.9%
477B	Littleton silt loam, 1 to 4 percent slopes	2.0	18.9%
479	Floyd silt loam, 1 to 4 percent slopes	3.3	31.2%
M517A	Clyde silty clay loam, 0 to 3 percent slopes	0.7	7.0%
Totals for Area of Interest		**10.5**	**100.0%**

SOIL CLASSIFICATION	HYDROLOGIC SOIL GROUP (HSG)
30B – KENYON LOAM	C
477B – LITTLETON SILT LOAM	B/D
479 – FLOYD SILT LOAM	B/D
M517A – CLYDE SILTY CLAY LOAM	C/D

USGS QUAD MAP – MINNESOTA – OLMSTED COUNTY – 7.5-MINUTE SERIES

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