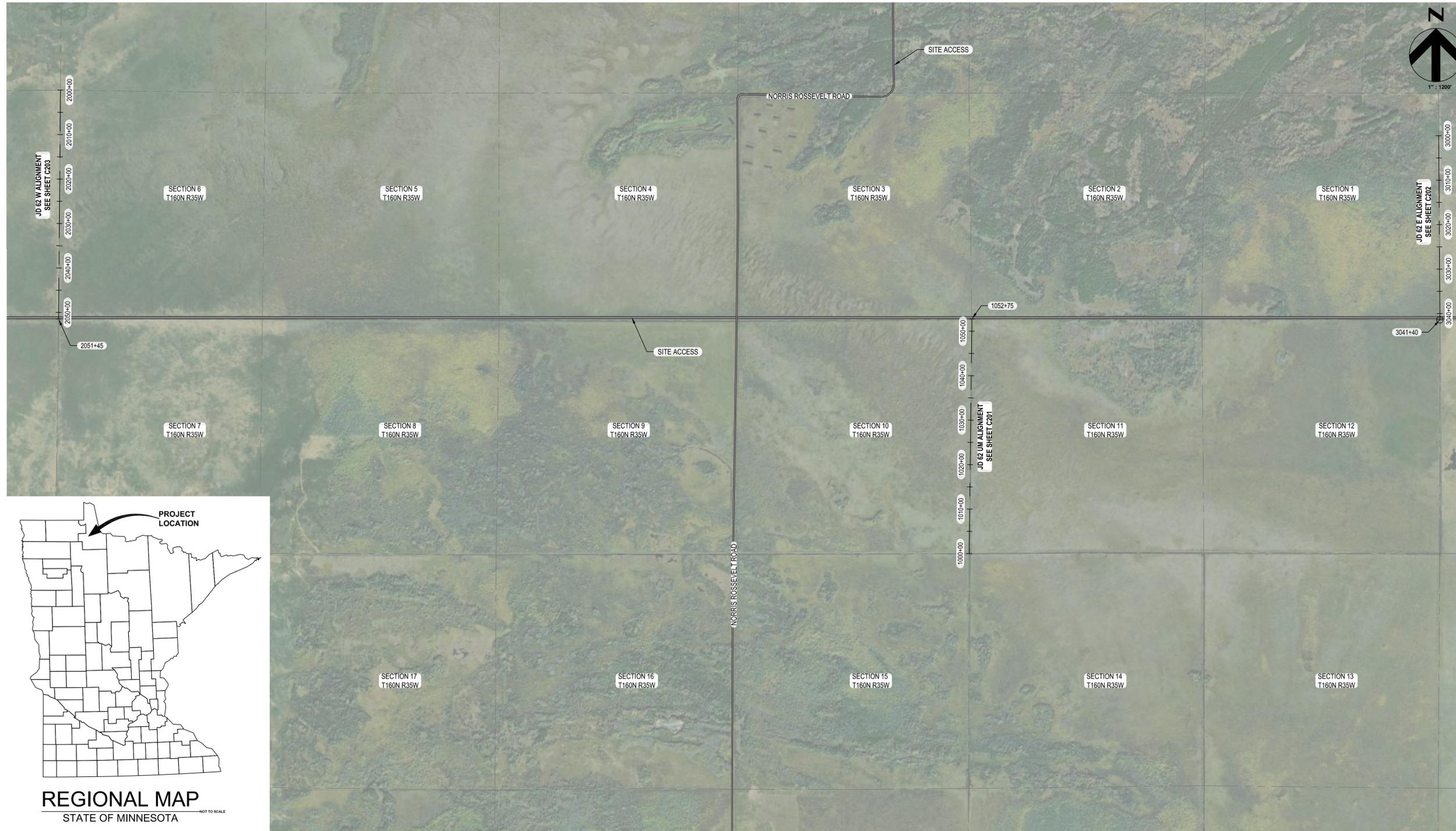


LAKE OF THE WOODS SOIL AND WATER CONSERVATION DISTRICT



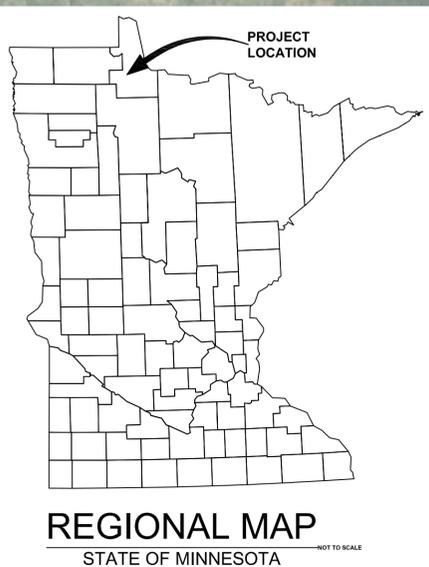
Contract Drawings For

Winter Road Peatland Restoration Project



INDEX OF SHEETS

GENERAL	
G000	COVER SHEET
G001	NOTES, LEGEND, & ESTIMATED QUANTITIES
G002	SITE MAP
G003	SWPPP STANDARD DETAILS
PLAN AND PROFILE	
C201	JD 62 UM PLAN VIEW
C202	JD 62 E PLAN VIEW
C203	JD 62 W PLAN VIEW
CIVIL DETAILS	
C501	TYPICAL DETAILS



Project No.10349034
**PRELIMINARY:
NOT ISSUED FOR BIDS
OR CONSTRUCTION
NOVEMBER, 2025**

(A) CONSTRUCTION NOTES

EXCAVATION, EMBANKMENTS, AND MISC.

- DITCH FILL INCLUDES PUSHING SPOIL AND BRUSH INTO THE EXISTING DITCH.
- COMMON EMBANKMENT SHALL INCLUDE SPOIL PLACEMENT.
- CONSTRUCTION WINDOW WOULD BE SEPTEMBER THROUGH FREEZE UP TO BE DURING OPTIMAL LOW GROUND WATER AND OUTSIDE THE GROWING SEASON CONSTRAINTS.
- NO CONSTRUCTION ALLOWED DURING FIREARMS DEER SEASON.
- ALL MATERIALS ARE ONSITE OR ON DNR PROPERTY, NO ADDITIONAL PROCUREMENT COSTS NEEDED.

(B) BASIS FOR ESTIMATED QUANTITIES (FOR INFORMATION ONLY)

- CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL AND PART OF DITCH FILL.
- TEMPORARY CROSSINGS - IS CONSIDERED INCIDENTAL TO MOBILIZATION.

(C) UTILITY NOTE

- THE SUBSURFACE UTILITY INFORMATION IN THE PLAN IS UTILITY LEVEL-D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C1/ASCE 38-02, ENTITLED "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". STATE LAW REQUIRES THE EXCAVATOR TO CONTACT GOPHER STATE ONE-CALL AT 1-800-252-1166 FOR UTILITY LOCATION 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

(D) INVASIVE SPECIES PREVENTIVE

WEED CONTROL WILL CONFORM TO MNDOT 2020 STANDARD SPECIFICATIONS 2575.3 -J WEED CONTROL AND 2575.3-K.5 MOWING AND WEED SPRAYING.

THE MINNESOTA DNR OPERATION ORDER 113 REQUIRES PREVENTING OR LIMITING THE INTRODUCTION, ESTABLISHMENT AND SPREAD OF INVASIVE SPECIES DURING ACTIVITIES ON PUBLIC WATERS AND DNR-ADMINISTERED LANDS. THE OWNER HAS DETERMINED THAT INVASIVE SPECIES ARE WITHIN THE PROJECT LIMITS.

INVASIVE SPECIES ARE DEFINED AS ANY NON-NATIVE SPECIES THAT CAUSES OR MAY CAUSE ECONOMIC OR ENVIRONMENTAL HARM OR HARM TO HUMAN HEALTH OR THREATENS OR MAY THREATEN NATURAL RESOURCES OR THE USE OF NATURAL RESOURCES IN THE STATE (PER MINNESOTA STATUTE 84D.01) PROHIBITED INVASIVE SPECIES ARE DEFINED IN MINNESOTA ADMINISTRATIVE RULE 6216.0250 AND REGULATED INVASIVE SPECIES ARE DEFINED IN MINNESOTA ADMINISTRATIVE RULE 6216.0260. THE CURRENT STATE LISTED NOXIOUS WEED (NW) SPECIES ARE DETERMINED BY THE MINNESOTA DEPARTMENT OF AGRICULTURE.

THE CONTRACTOR SHALL CONTROL AND PREVENT THE SPREADING OF INVASIVE SPECIES FROM ENTERING OR SPREADING WITHIN A PROJECT SITE BY MINIMIZING DISTURBANCE, CLEANING EQUIPMENT AND CLOTHING PRIOR TO ARRIVING AT THE PROJECT SITE AND APPLYING TREATMENTS AT THE APPROPRIATE TIME TO PREVENT SEED PRODUCTION AND SPREADING.

THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE COUNTY AGRICULTURAL INSPECTOR OR MINNESOTA DEPARTMENT OF AGRICULTURE TO TRANSPORT MATERIAL OR EQUIPMENT CONTAINING PROPAGATING PARTS OF NW, SUBMIT TO ENGINEER A COPY OF THE PERMIT, AND FOLLOW THE PERMIT REQUIREMENTS.

AT THE PRE-CONSTRUCTION MEETING, THE PROJECT MANAGER SHALL IDENTIFY THE KNOWN AREAS WITH INVASIVE SPECIES. THE CONTRACTOR SHALL SUBMIT A PLAN AT THE PRE-CONSTRUCTION MEETING FOR REDUCING THE SPREAD OF NW. THE PLAN MUST INCLUDE METHODS AND SEQUENCE OF WORK INCLUDING THE USE OF HERBICIDE(S) AND A COPY OF THE COMMERCIAL APPLICATOR LICENSE WITH CATEGORIES FOR CORE AND RIGHTS-OF-WAY AND LIST OF HERBICIDES TO BE USED.

THE CONTRACTOR SHALL MINIMIZE THE SPREAD OF WEED SEED AND OTHER PROPAGULES FROM DESIGNATED INFESTED AREAS BY MINIMIZING DISTURBANCE AND BY CLEANING VEHICLES AND EQUIPMENT. CLEANING SHALL REMOVE SOIL AND VEGETATION DEBRIS FROM VEHICLES AND EQUIPMENT BEFORE MOVING OUT OF INFESTED AREAS OR MOVING INTO PROJECT LIMITS. NW INFESTED SOILS STOCKPILES SHALL BE SEPARATE FROM NON-INFESTED STOCKPILES.

THE PROJECT MANAGER SHALL INSPECT ALL EQUIPMENT AND CLOTHING AT THE STAGING AREA DETERMINED AT THE PRE-CONSTRUCTION MEETING. IF THE EQUIPMENT OR CLOTHING ARRIVES AT THE PROJECT SITE WITH SOIL, AGGREGATE MATERIAL, MULCH, VEGETATION (INCLUDING SEEDS) OR ANIMALS, IT SHALL BE CLEANED BY THE CONTRACTOR USING CONTRACTOR FURNISHED TOOLS OR EQUIPMENT (BRUSH/BROOM, COMPRESSED AIR OR PRESSURE WASHER) AT THE STAGING AREA. THE CONTRACTOR SHALL DISPOSE OF MATERIAL CLEANED FROM EQUIPMENT AND CLOTHING AT A LOCATION DETERMINED BY THE OWNER. IF THE MATERIAL CANNOT BE DISPOSED OF ONSITE, SECURE MATERIAL PRIOR TO TRANSPORT (SEALED CONTAINER, COVERED TRUCK, OR WRAP WITH TARP) AND LEGALLY DISPOSE OF OFFSITE. PRIOR TO LEAVING THE PROJECT LIMITS, THE CONTRACTOR SHALL CLEAN EQUIPMENT AND CLOTHING AND DISPOSE OF MATERIAL AS NOTED ABOVE.

AQUATIC EQUIPMENT USED IN INVERTEBRATE INFESTED WATERS SHALL BE DRIED BEFORE REUSE, RINSED WITH HOT WATER OR POWER WASHED TO REMOVE INVERTEBRATES. PRIOR TO LEAVING THE WATER BODY, DRAIN WATER FROM ALL EQUIPMENT. AQUATIC EQUIPMENT USED IN PATHOGEN INFESTED WATER(S) SHALL BE DISINFECTED, IMMEDIATELY AFTER EXITING THE WATER.

WHERE THERE ARE MULTIPLE SITES AND AT LEAST ONE CONTAINS INVASIVE SPECIES, THE INTENT IS TO START WORK AT THE SITE WITH THE FEWEST NUMBER OF INVASIVE PLANTS, LEAVING THE MOST HEAVILY INFESTED SITES TO LAST. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SCHEDULE OPERATIONS AND SITE VISITS TO AVOID THE SPREAD OF WEED SEED. WHEN PLANNING TO TRAVEL BETWEEN MULTIPLE SITES IN ONE DAY, THE CONTRACTOR SHALL SUBMIT THE SCHEDULE TO THE OWNER FOR REVIEW AND EITHER ACCEPTANCE OR REJECTION. THE CONTRACTOR SHALL NOT START WORK UNTIL THE SCHEDULE HAS BEEN ACCEPTED.

THE PARKING AND STAGING AREAS AND TRAVEL ROUTES SHALL AVOID THE INVASIVE SPECIES AREA TO THE EXTENT POSSIBLE. MOVEMENT AND REUSE OF TOPSOIL FROM INFESTED AREAS SHALL BE LIMITED TO THE CONFINES OF IDENTIFIED INFESTED AREAS.

IF THE OWNER OR CONTRACTOR DISCOVERS ADDITIONAL INVASIVE SPECIES INFESTATION AREAS DURING CONSTRUCTION, THE CONTRACTOR IS TO STOP OPERATIONS IN THE NEWLY DISCOVERED INFESTED AREA AND PROPOSE A RESOLUTION TO OWNER FOR REVIEW AND EITHER ACCEPTANCE OR REJECTION.

IF THE PROJECT IS INACTIVE FOR LONGER THAN ONE MONTH OF THE GROWING SEASON, THE CONTRACTOR SHALL CLOSE, OBSTRUCT, OR GATE ALL ACCESS ROUTES UNTIL THE PROJECT RESUMES. UPON PROJECT COMPLETION THE CONTRACTOR SHALL CLOSE, OBSTRUCT, OR GATE ALL TEMPORARY CONSTRUCTION ACCESS ROUTES AS DIRECTED BY THE PROJECT MANAGER.

CIVIL MAPPING SYMBOLOGY

- TREE FELLING
- FLOW ARROW
- WATER LEVEL IN SECTION/PROFILE
- SURVEY BENCHMARK
- EXCELSIOR BALE

UTILITY/CIVIL LINE SYMBOLOGY

- SECTION BOUNDARY LINE
- OVERHEAD ELECTRICAL
- EXISTING CONTOUR (MINOR)
- NEW CONTOUR (MINOR)
- TOP OF SLOPE



ISSUE	DATE	DESCRIPTION
A	11/13/2025	PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT MANAGER	T. MCCORMACK
DESIGNER 1	A. FOTY
DESIGNER 2	E. ANDERSON
CHECKED BY	T. MCCORMACK
PROJECT NUMBER	10349034

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

DATE _____ LICENSE # _____

WINTER ROAD PEATLAND RESTORATION PROJECT

NOTES, LEGEND, & ESTIMATED QUNATITES



FILENAME | 00G-001.DWG
SCALE | NONE

SHEET
00G-001



PROJECT ALIGNMENTS			
ALIGNMENT	STARTING	ENDING	SHEET
JD 62 UM	STATIONING - 1000+00 NORTHING - 216403.26 (Y) EASTING - 441325.3813 (X)	STATIONING - 1052+75 NORTHING - 221678.1031 (Y) EASTING - 441386.7456 (X)	01C-201
JD 62 E	STATIONING - 2000+00 NORTHING - 225799.2902 (Y) EASTING - 451904.9093 (X)	STATIONING - 2051+45 NORTHING - 221659.5744 (Y) EASTING - 451930.4061 (X)	02C-201
JD 62 UM W	STATIONING - 3000+00 NORTHING - 226824.4394 (Y) EASTING - 420853.5468 (X)	STATIONING - 3041+40 NORTHING - 221680.0752 (Y) EASTING - 420809.5406 (X)	03C-201

BENCHMARK AND GPS CONTROL	
MN/DOT GEODETIC DATA BASE STATION:	86 KEE
VERTICAL DATUM:	NAVD 88
NORTHING	- 484107.30 (Y)
EASTING	- 950854.30 (X)
ELEVATION	- 1225.903 FT (Z)
COORDINATE SYSTEM	- LAKE OF THE WOODS COUNTY COORDINATE SYSTEM
GEOID MODEL	- GEOID18
LOCATION:	8.0 MILES SOUTH AND 2.75 MILES WEST OF ROOSEVELT, TO REACH FROM THE JUNCTION OF TRUNK HIGHWAY 11 AND COUNTY ROAD 42 (280TH STREET) IN ROOSEVELT, GO SOUTH AND WEST ON COUNTY ROAD 42 FOR 1.75 MILES TO A CROSSROAD (COUNTY ROAD 42 AND 680TH AVENUE), GO SOUTH ON 680TH AVENUE FOR 8.7 MILES, 152.0 FEET NORTH AND 45.0 FEET WEST OF A ROAD AT A TRAIL WEST, 3.0 FEET NORTHWEST OF A WITNESS POST.



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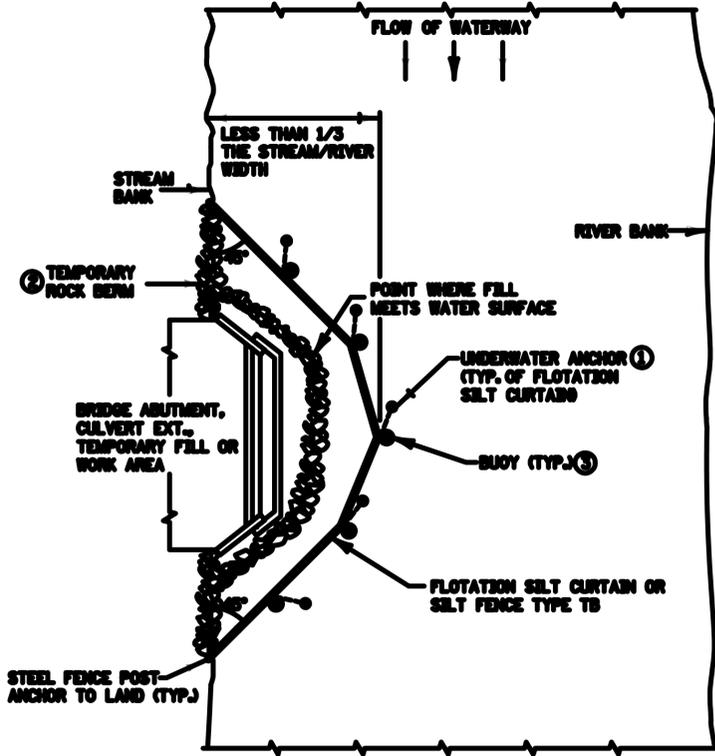
DATE _____ LICENSE # _____

WINTER ROAD PEATLAND RESTORATION PROJECT

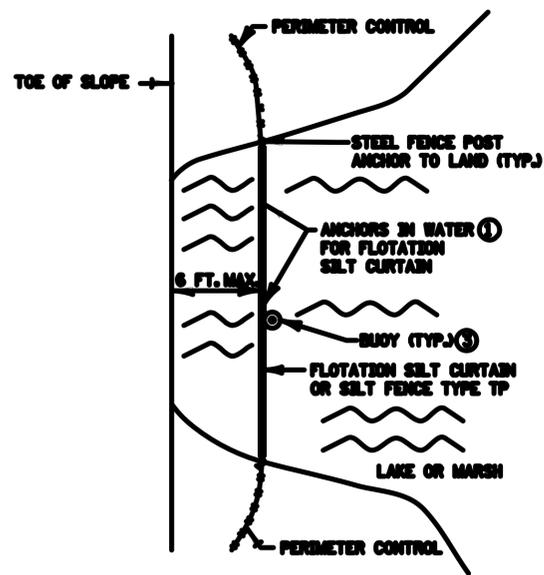
SITE MAP

FILENAME | 00G-002.DWG
SCALE | 1" = 1200'

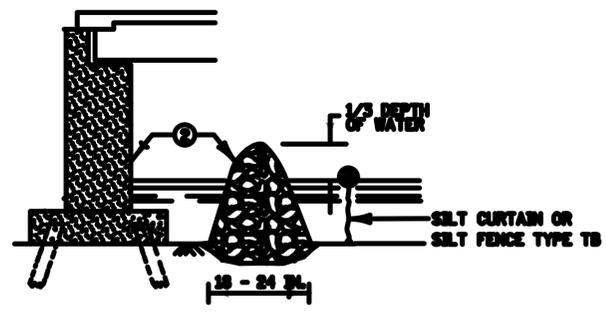
SHEET
00G-002



PLAN VIEW FOR STREAM ④



PLAN VIEW FOR LAKE OR MARSH ⑤

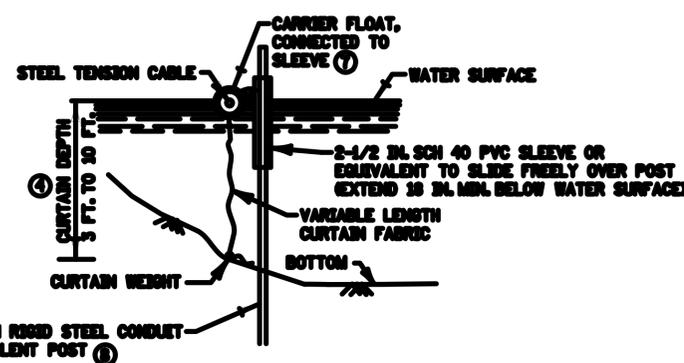


TEMPORARY ROCK BERM FOR SEDIMENT CONTROL

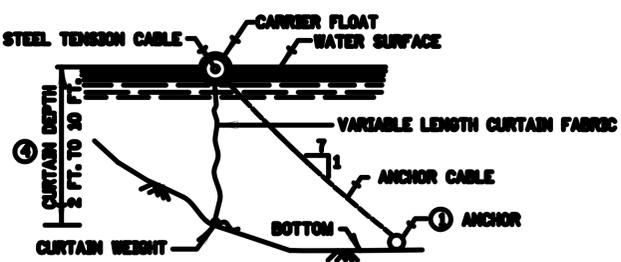
INSTALLATION GUIDELINES SILT FENCE TYPE TB
 MINIMUM WATER DEPTH: 1 FT.
 MAXIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.

INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: STILL WATER ④
 MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 30 FT.
 MAXIMUM WATER VELOCITY: 2 FT./SEC.
 MAXIMUM WAVE HEIGHT: 1 FT.

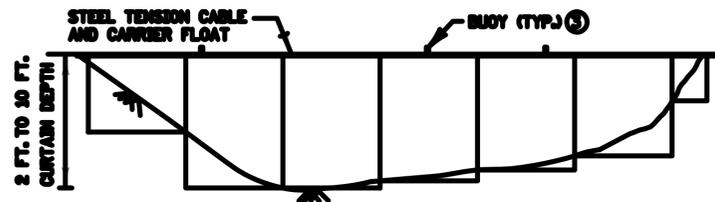
INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: MOVING WATER ④
 MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 30 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.
 MAXIMUM WAVE HEIGHT: 2 FT.



ALTERNATE FLOTATION SILT CURTAIN



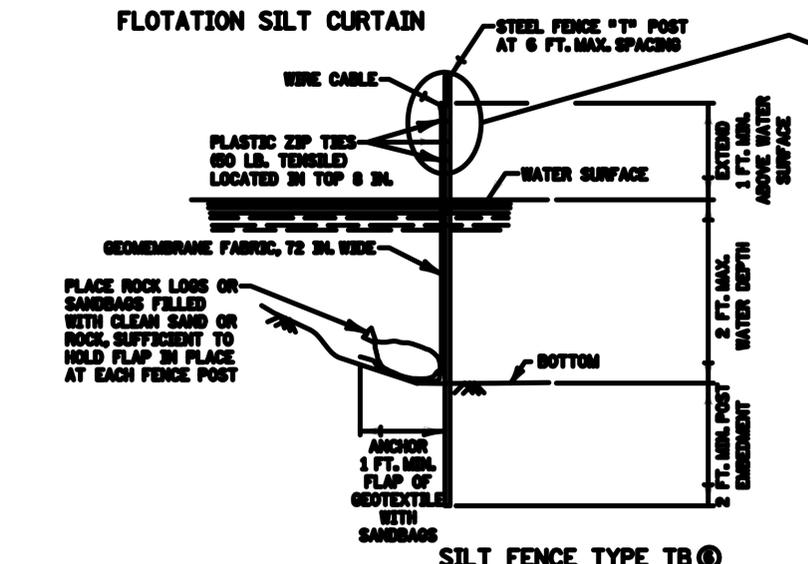
FLOTATION SILT CURTAIN



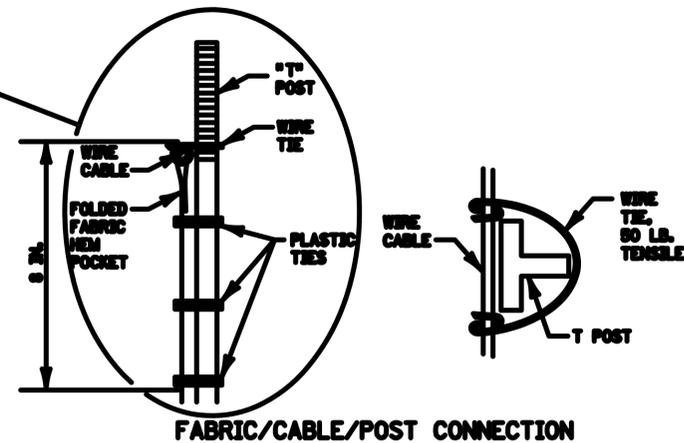
FRONT VIEW FOR FLOTATION SILT CURTAIN

NOTES:

- ① SEE SPECS. 2573, 3006, 3007 & 3008.
- ② FOR ANCHOR SPACING AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.
- ③ IN AREAS WHERE THE PLAN CALLS FOR RIPRAP AT A BRIDGE, CULVERT, OR SLOPE, A TEMPORARY ROCK BERM CONSTRUCTED FROM THE RIPRAP CAN BE USED TO PROVIDE ADDITIONAL PROTECTION. WHEN THE WORK IS COMPLETE THE RIPRAP CAN THEN BE MOVED TO THE PERMANENT LOCATION INDICATED IN THE PLANS. THE TEMPORARY ROCK BERM IS INCIDENTAL.
- ④ ON U.S. COAST GUARD OR OTHER MOTORIZED WATERWAYS, BUOYS ARE REQUIRED TO MARK THE ENDS AND SPECIAL AREAS FOR VISIBILITY. PLACE BUOYS AS REQUIRED FOR NAVIGATIONAL PURPOSES.
- ⑤ MINIMUM WATER DEPTH APPLIES TO THE DEEPEST POINT ALONG THE FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB FOR DETERMINING APPLICABILITY OF FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB.
- ⑥ SILT CURTAIN SHOULD BE REMOVED WHEN THE AREA CONTRIBUTING DIRECT RUNOFF HAS BEEN TEMPORARILY OR PERMANENTLY STABILIZED. SILT CURTAIN SHOULD ALSO BE REMOVED BEFORE WINTER IF ICE UP OR ICE FLOW IS ANTICIPATED.
- ⑦ EMBED POST INTO BOTTOM A MINIMUM OF 40% OF THE WATER DEPTH (INCLUDING WAVE HEIGHT), BUT IN NO CASE SHALL EMBEDMENT BE LESS THAN 2 FEET.
- ⑧ ANCHOR FLOAT MUST BE CONNECTED SECURELY TO SLEEVE WITH A MINIMUM TENSILE STRENGTH OF 100 LBS. CONNECTION METHOD MUST ALLOW FOR SLEEVE TO MOVE FREELY ON POST.
- ⑨ PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.



SILT FENCE TYPE TB ③



FABRIC/CABLE/POST CONNECTION

PROJECT MANAGER	T. MCCORMACK
DESIGNER 1	A. FOTY
DESIGNER 2	E. ANDERSON
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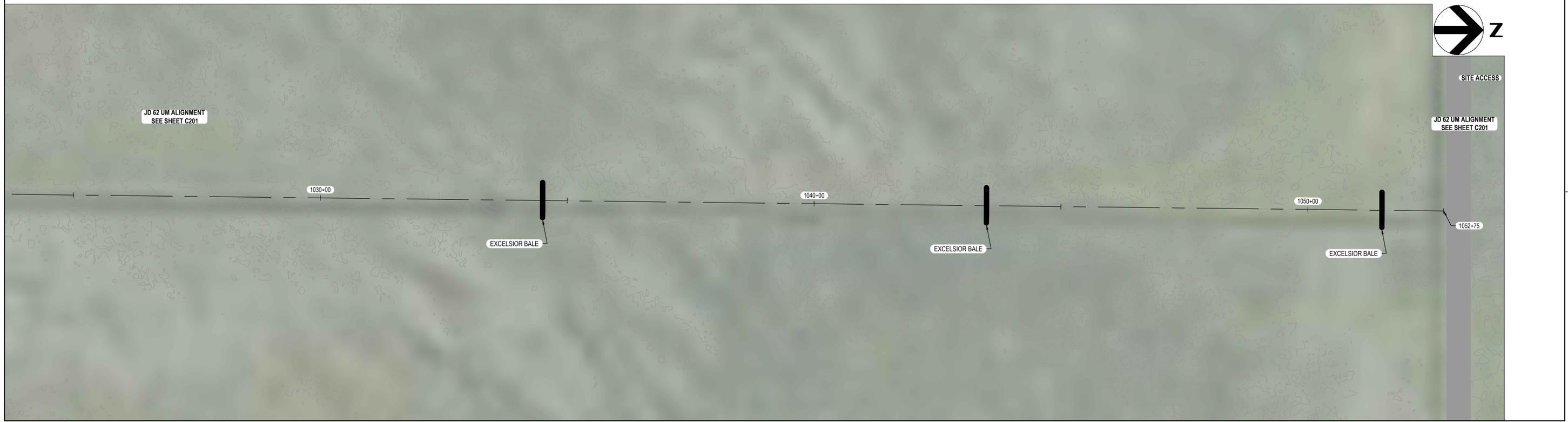
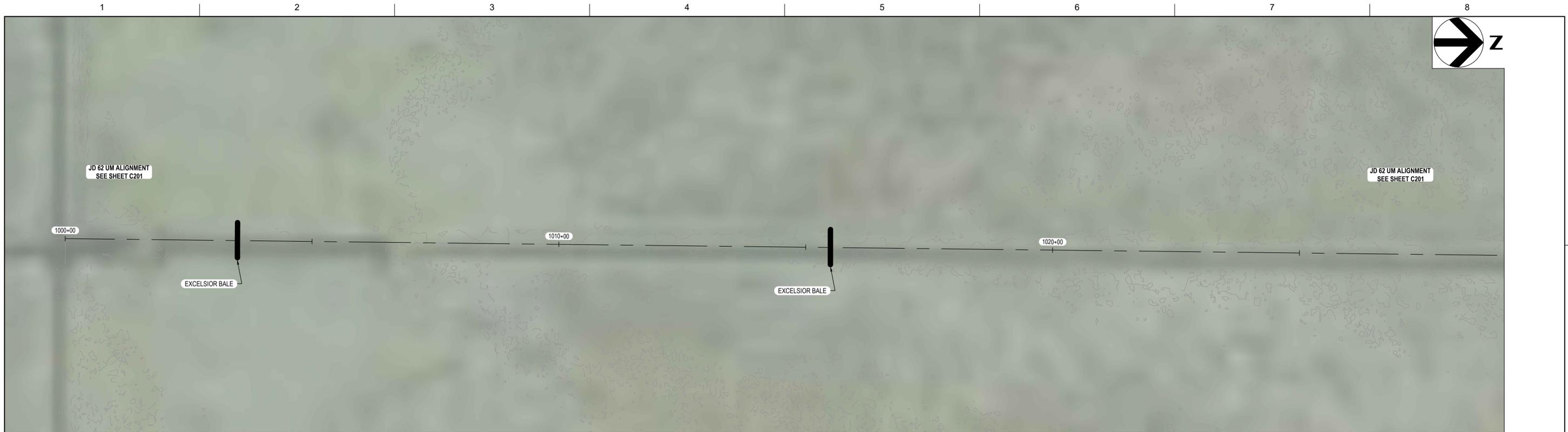
WINTER ROAD PEATLAND RESTORATION PROJECT

SWPPP STANDARD DETAILS FLOATING SILT CURTAIN



FILENAME: G003.DWG
 SCALE: NONE

SHEET G003



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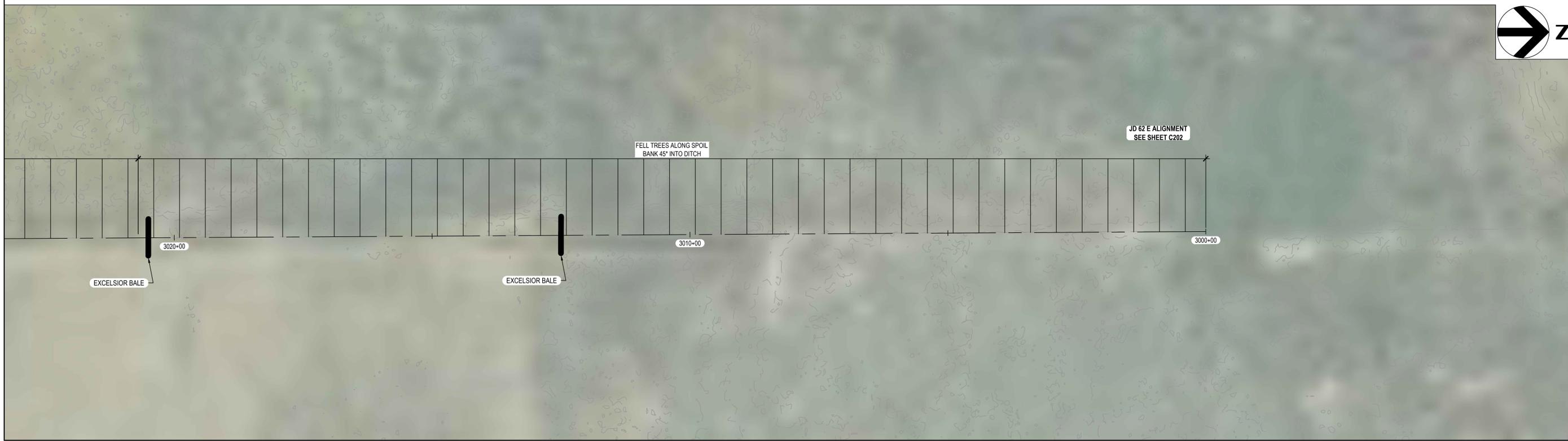
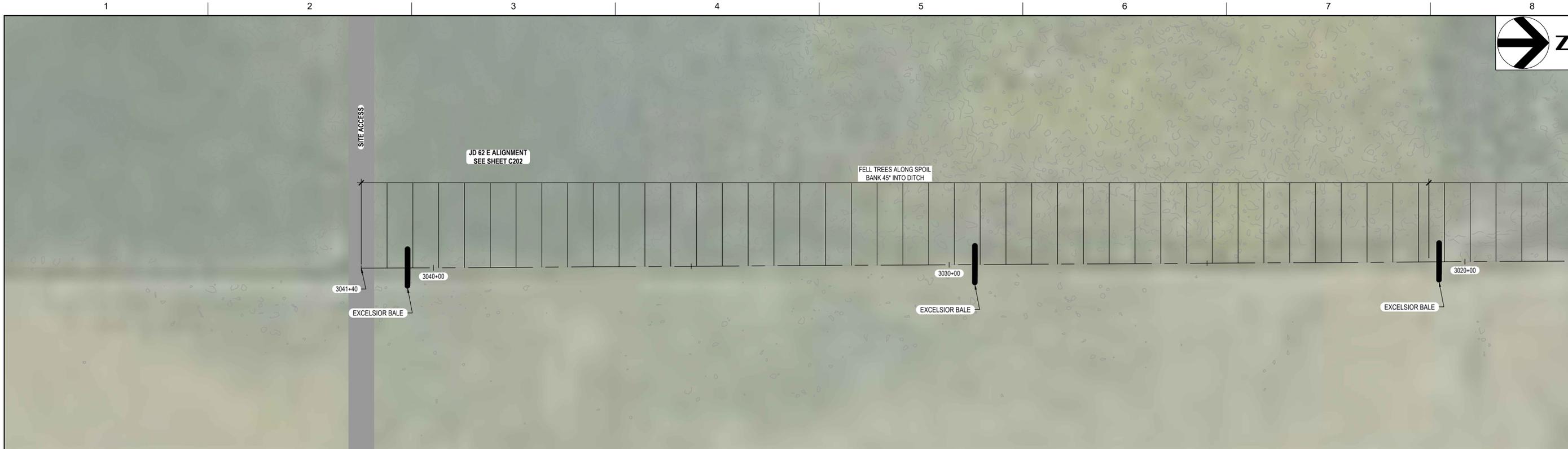
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WINTER ROAD PEATLAND RESTORATION PROJECT

JD 62 UM PLAN VIEW

FILENAME | 00C-201.DWG
SCALE | 1" = 100'



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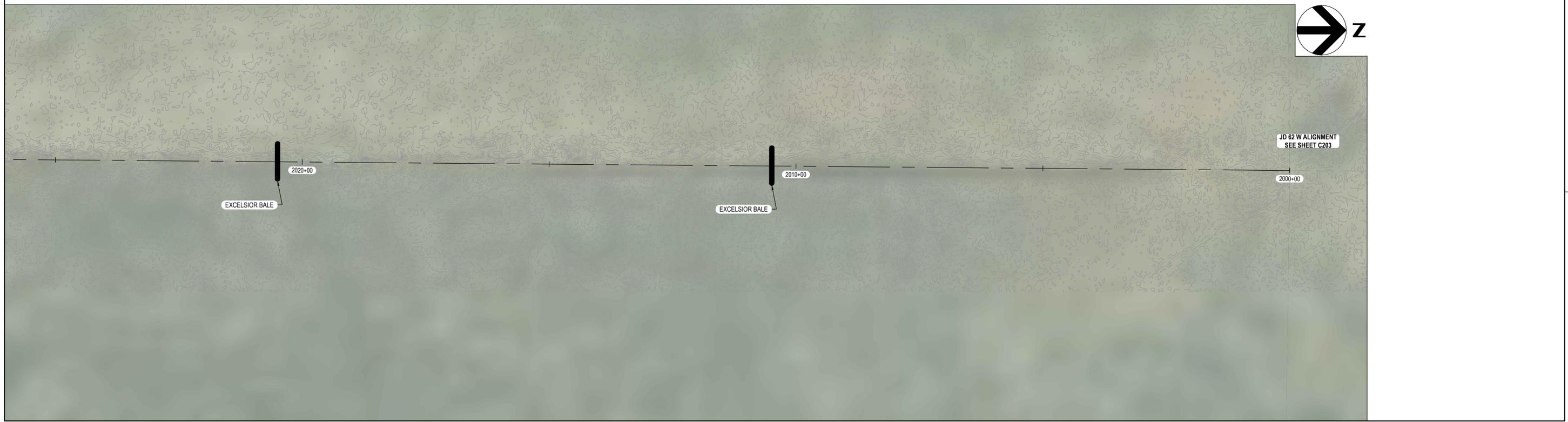
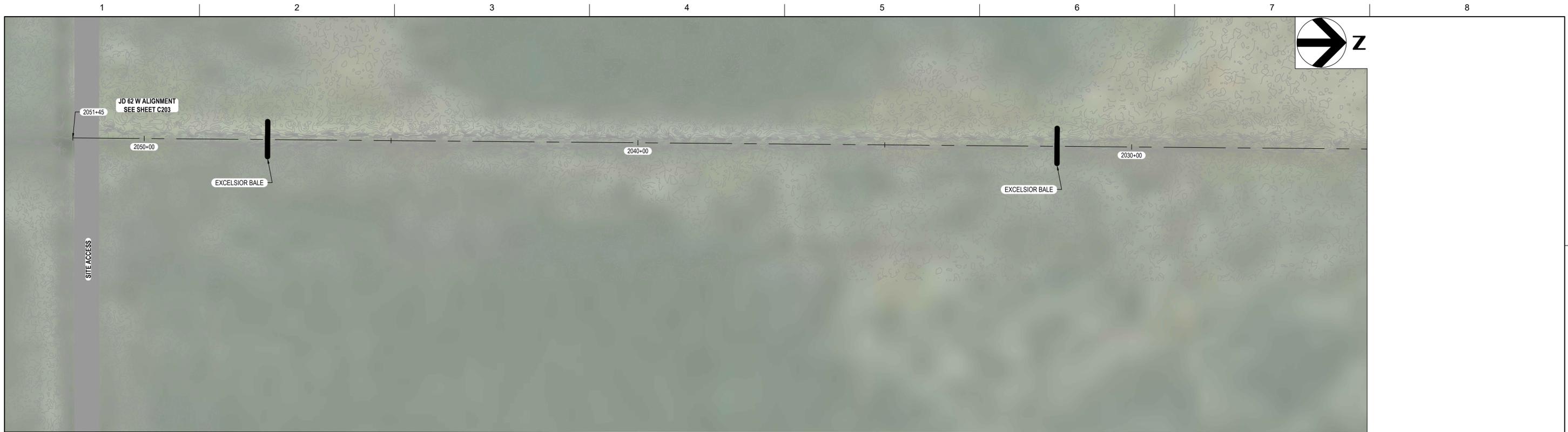
DATE _____ LICENSE # _____

WINTER ROAD PEATLAND RESTORATION PROJECT



JD 62 E PLAN VIEW

FILENAME | 00C-202.DWG
SCALE | 1" = 100'



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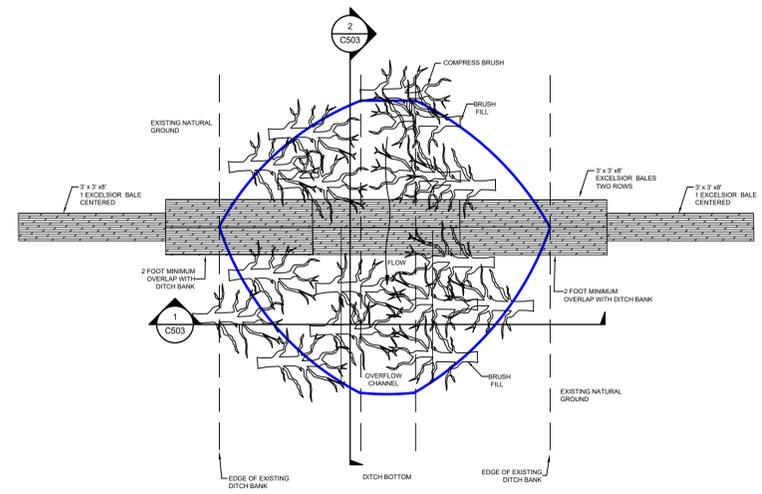
WINTER ROAD PEATLAND RESTORATION PROJECT



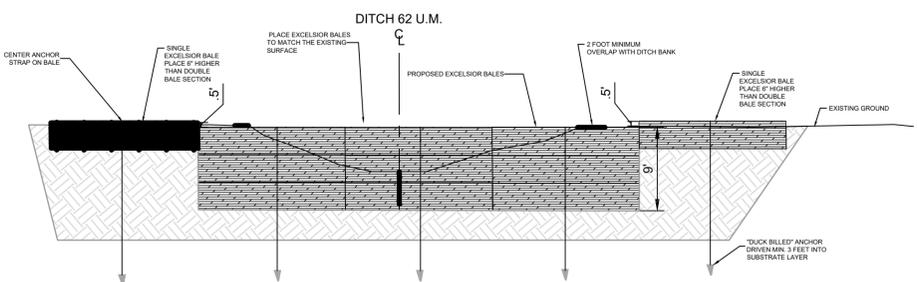
**JD 62 W
PLAN VIEW**

FILENAME | 00C-203.DWG
SCALE | 1" = 100'

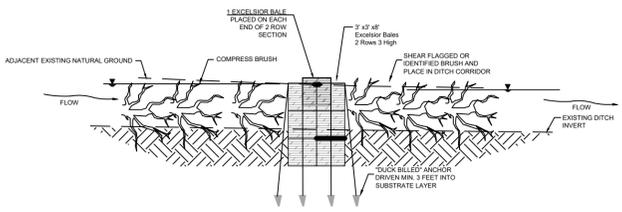
SHEET
C203



Excelsior Bale Ditch Plug
1 PLAN VIEW
SCALE: 1" = 5'



Excelsior Bale
CROSS SECTION
SCALE: 1" = 5'

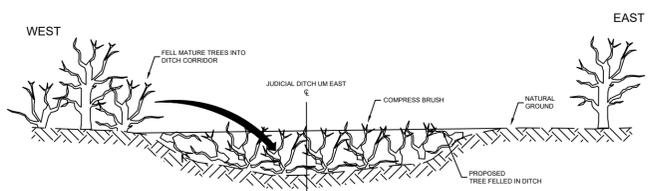


Excelsior Bale Ditch Plug
2 SCALE: 1" = 5'

TABLE 4. TREE FELLED IN DITCH

TREE FELLED IN DITCH	
ALIGNMENT	STATION
JD 62 E	3000+00 TO 3051+45

NOTE
USE BRUSH ON THE WEST SIDE OF DITCH TO FILL IN THE DITCH TO MATCH NATURAL GROUND.



TREE FELLED IN DITCH
CROSS SECTION
SCALE: 1" = 5'



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WINTER ROAD PEATLAND RESTORATION PROJECT



FILENAME 00C-501.DWG
SCALE 1" = 10'

SHEET
C501

TYPICAL DETAILS