

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 32



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

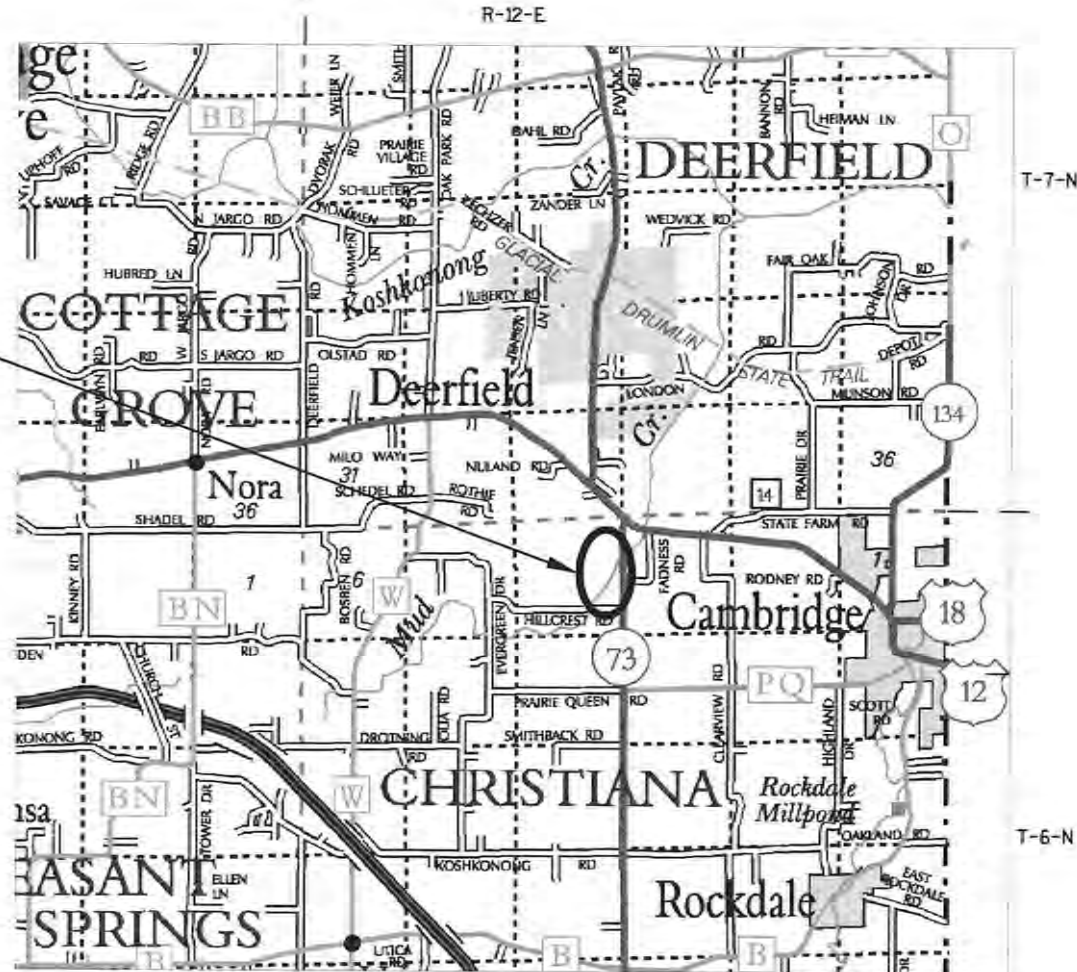
PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	---
LIMITED HIGHWAY EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	---
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	95.36
CULVERT (Profile View)	---
UTILITIES	---
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

PROJECT 3070-00-74

PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 4, T6N, R12E, TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN.

STATE PROJECT NUMBER
3070-00-74

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 39 - COLUMBUS
FADNESS ROAD TO LONDON ROAD
WETLAND MITIGATION, NON HIGHWAY
DANE COUNTY

STATE PROJECT

3070-00-74

FEDERAL PROJECT

PROJECT

CONTRACT

ORIGINAL PLANS PREPARED BY



10/2/2014 (Date) [Signature] (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____

Designer _____ OTIE

Project Manager _____ CRAIG PRINGLE

Regional Examiner _____

Regional Supervisor _____ JOHN STEINER

APPROVED FOR THE DEPARTMENT

DATE: 6/2/2014

[Signature]
(Signature)

E

WISDOT CONTACT

JENNIFER GRIMES
WISDOT SW REGION PROJECT FIELD OFFICE
111 INTERSTATE BLVD.
EDGERTON, WI 53534
(608) 884-1147
JENNIFER.GRIMES@DOT.WI.GOV

CRAIG PRINGLE
WISDOT SW REGION PROJECT FIELD OFFICE
111 INTERSTATE BLVD.
EDGERTON, WI 53534
(608) 884-7132
CRAIG.PRINGLE@DOT.WI.GOV

OTHER AGENCIES

DANE COUNTY PUBLIC WORKS
SCOTT CARLSON
(608) 266-4179
(608) 575-8767 (MOBILE)
carlson.scott@countyofdane.com

US ARMY CORPS OF ENGINEERS
SIMONE KOLB
20711 WATERTOWN ROAD, SUITE F
WAUKESHA, WI 53186
(262) 547-4171
SIMONE.E.KOLB@USACE.ARMY.MIL

USDA-NRCS
MARK STEINFEST
225 OCONNOR DRIVE
ELKHORN, WI 53121-4269
(608) 751-2507
MARK.STEINFEST@WI.USDA.GOV

DNR CONTACT

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

CONSULTANT CONTACT

ONEIDA TOTAL INTEGRATED ENTERPRISES
SCOTT HORZEN
1033 N. MAYFAIR ROAD, SUITE 200
MILWAUKEE, WI 53226
(414) 607-6773
SHORZEN@OTIE.COM

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY
JASON HOGAN
4902 N BITMORE LANE, SUITE 1000
MADISON, WI 53718
(608) 458-4871
JASONHOGAN@ALLIANTENERGY.COM

FRONTIER COMMUNICATIONS OF WI LLC
ROBERT CHURCH
2222 WEST WISCONSIN STREET
PORTAGE, WI 53901
(608) 742-1817
ROBERT.CHURCH@FTR.COM

MCLEOD USA TELECOMMUNICATION SERVICES INC
JIM KOSTUCH
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
(262) 792-7938
JAMES.KOSTUCH@WINDSTREAM.COM

GENERAL NOTES

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

ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS, EXCEPT FOR THE PLANTING ZONES ARE TO BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING COMPLETION OF WORK ACTIVITIES OR AT THE DIRECTION OF THE ENGINEER.

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.

THE NORTH SITE ACCESS OFF OF STH 73 IS A FIELD ENTRANCE TO THE ADJACENT PARCEL. THE ROUTE FROM THE ACCESS POINT TO THE WORK ZONE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

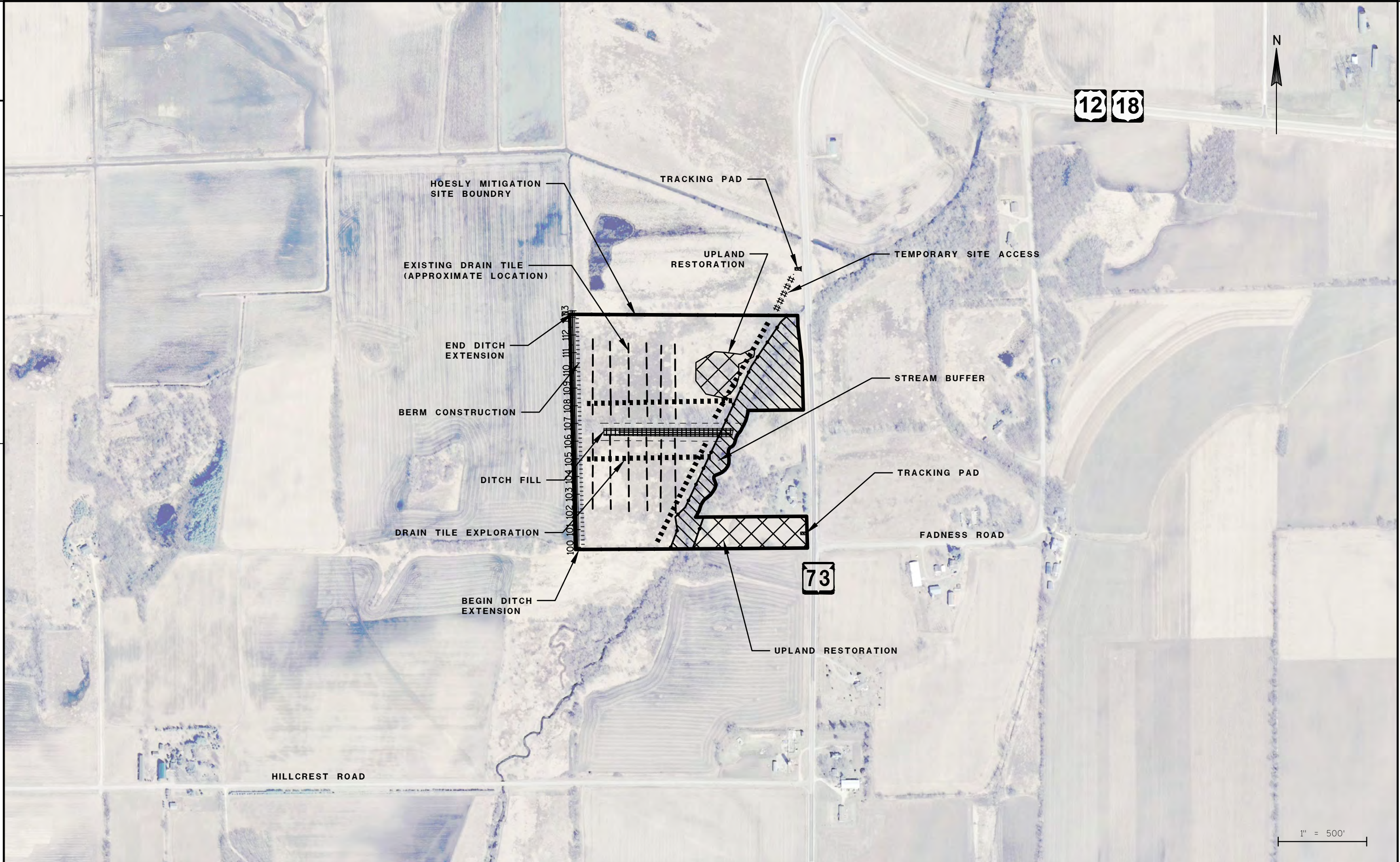
UTILITIES EXIST ADJACENT TO THE PROJECT AND MAY BE AFFECTED BY THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIGGERS HOTLINE AND ANY UTILITIES IN THE AREA THAT ARE NOT A MEMBER OF DIGGERS HOTLINE.

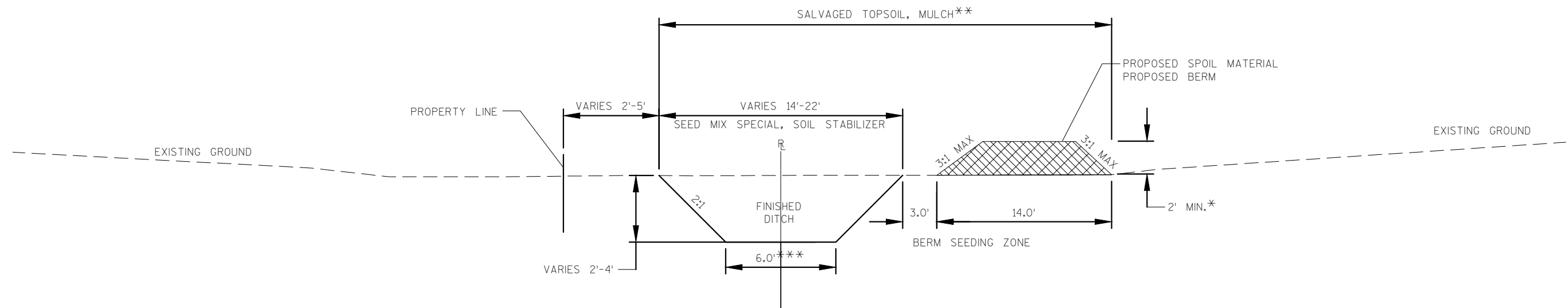
ALL EROSION CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND ARE TO BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

TURBIDITY BARRIER IS TO BE USED IN PLACE OF SILT FENCE IF WATER DEPTH ON SITE EXCEEDS FOUR FEET, OR IF DIRECTED BY THE ENGINEER.



Dial 811 or (800)242-8511
www.DiggersHotline.com



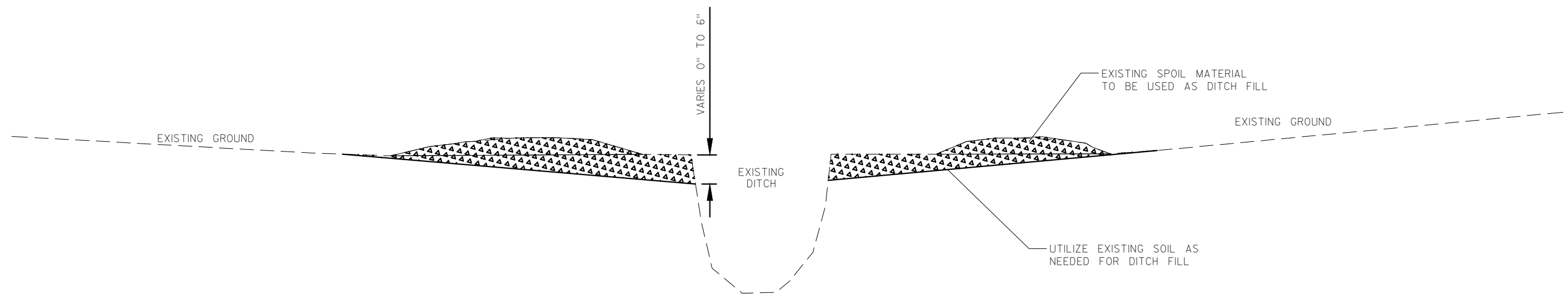


TYPICAL FINISHED SECTION - DITCH CONSTRUCTION
STA. 100+00 TO 113+36.48

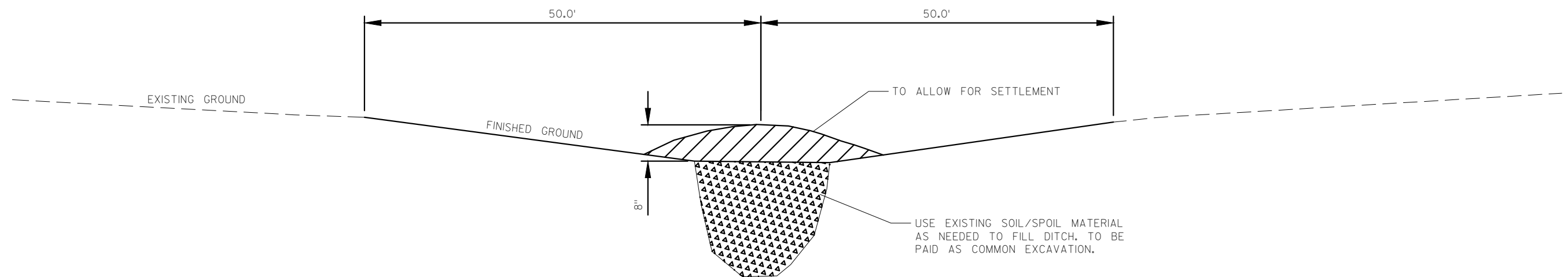
* BERM HEIGHT TO BE DETERMINED BY ENGINEER IN FIELD FROM QUANTITY OF AVAILABLE MATERIAL LEFTOVER BY DITCH CONSTRUCTION

** SCRAPE TOPSOIL IN AREAS OF DITCH/BERM CONSTRUCTION AND REPLACE ALL TOPSOIL AFTER CONSTRUCTION. TO BE PAID FOR AS SALVAGED TOPSOIL

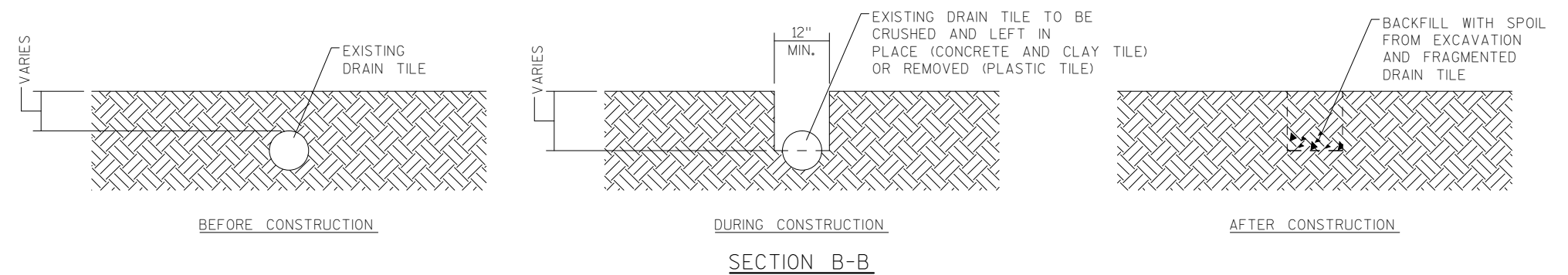
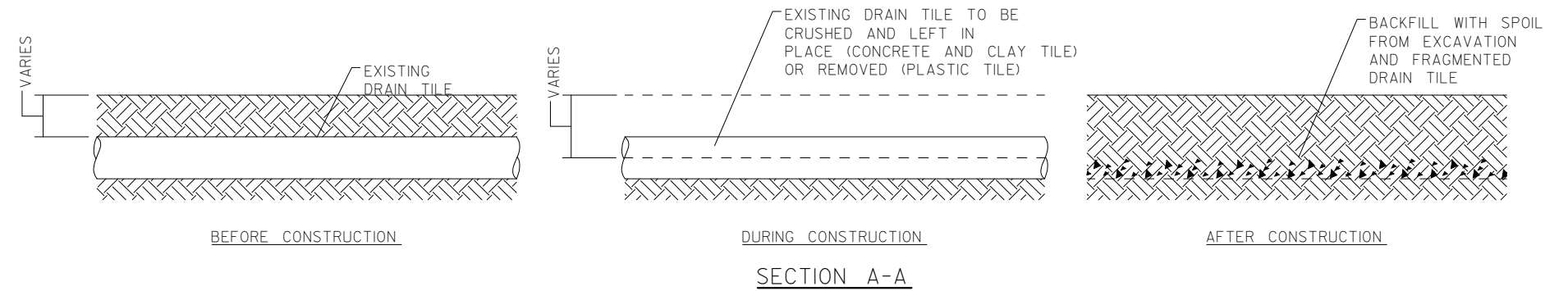
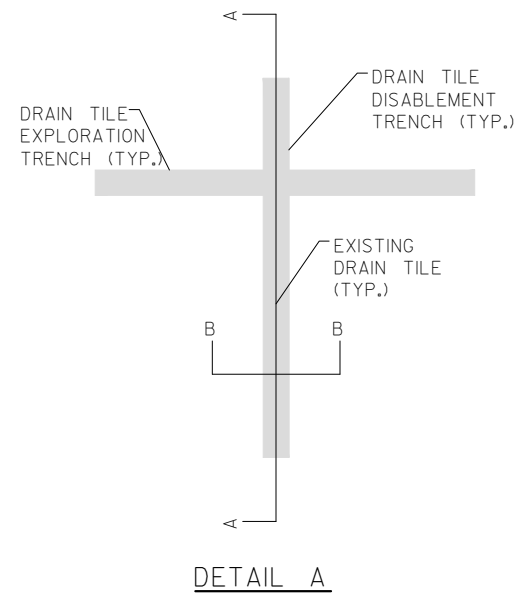
*** SEE PLAN AND PROFILE SHEET FOR DITCH BOTTOM ELEVATION



TYPICAL EXISTING SECTION - DITCH FILL
NOT TO SCALE



TYPICAL FINISHED SECTION - DITCH FILL
NOT TO SCALE



NOTES:

1. TRENCH SHALL BE A MINIMUM WIDTH OF 12-INCHES, AND A MAXIMUM DEPTH OF 4-FEET.
2. SOIL AND DRAIN TILE EXCAVATED DURING DRAIN TILE DISABLEMENT TO BE BACKFILLED INTO THE TRENCH.
3. TRENCH SHALL REMAIN OPEN LONG ENOUGH FOR THE ENGINEER IN THE FIELD TO CONFIRM THAT THE DRAIN TILE HAS BEEN SUFFICIENTLY DISABLED.
4. DEPTH OF DRAIN TILE TO BE DETERMINED IN FIELD.
5. SEE DRAIN TILE DISABLEMENT PLAN SHEET FOR ADDITIONAL INFORMATION.

DRAIN TILE DISABLEMENT DETAIL

DRAIN TILE DISABLEMENT LEGEND

DRAIN TILE LOCATION AND SPACING IS ASSUMED

- EXISTING DRAIN TILE
(APPROXIMATE LOCATION)
- ////// DRAIN TILE DISABLEMENT
- DRAIN TILE EXPLORATION

SUGGESTED DRAIN TILE DISABLEMENT
SEQUENCE OF EVENTS

1. USE DRAIN TILE EXPLORATION TO EXPOSE
THE DRAIN TILE LINES.
2. DISABLE ALL OTHER DRAIN TILE LINES LOCATED
DURING DISABLEMENT OF DRAIN TILE MAIN
LINE.

NOTES:

1. THE ENTIRE DRAIN TILE SYSTEM IS TO BE DISABLED.
2. TRENCH SHALL BE A MINIMUM WIDTH OF 12-INCHES.
3. SOIL AND DRAIN TILE EXCAVATED DURING DRAIN TILE
DISABLEMENT (CONCRETE OR CLAY TILE ONLY)
TO BE BACKFILLED INTO THE TRENCH.
4. TRENCH SHALL REMAIN OPEN LONG ENOUGH FOR THE
ENGINEER IN THE FIELD TO CONFIRM THAT THE DRAIN
TILE HAS BEEN SUFFICIENTLY DISABLED.
5. SEE DRAIN TILE DISABLEMENT CONSTRUCTION DETAIL
FOR ADDITIONAL INFORMATION.

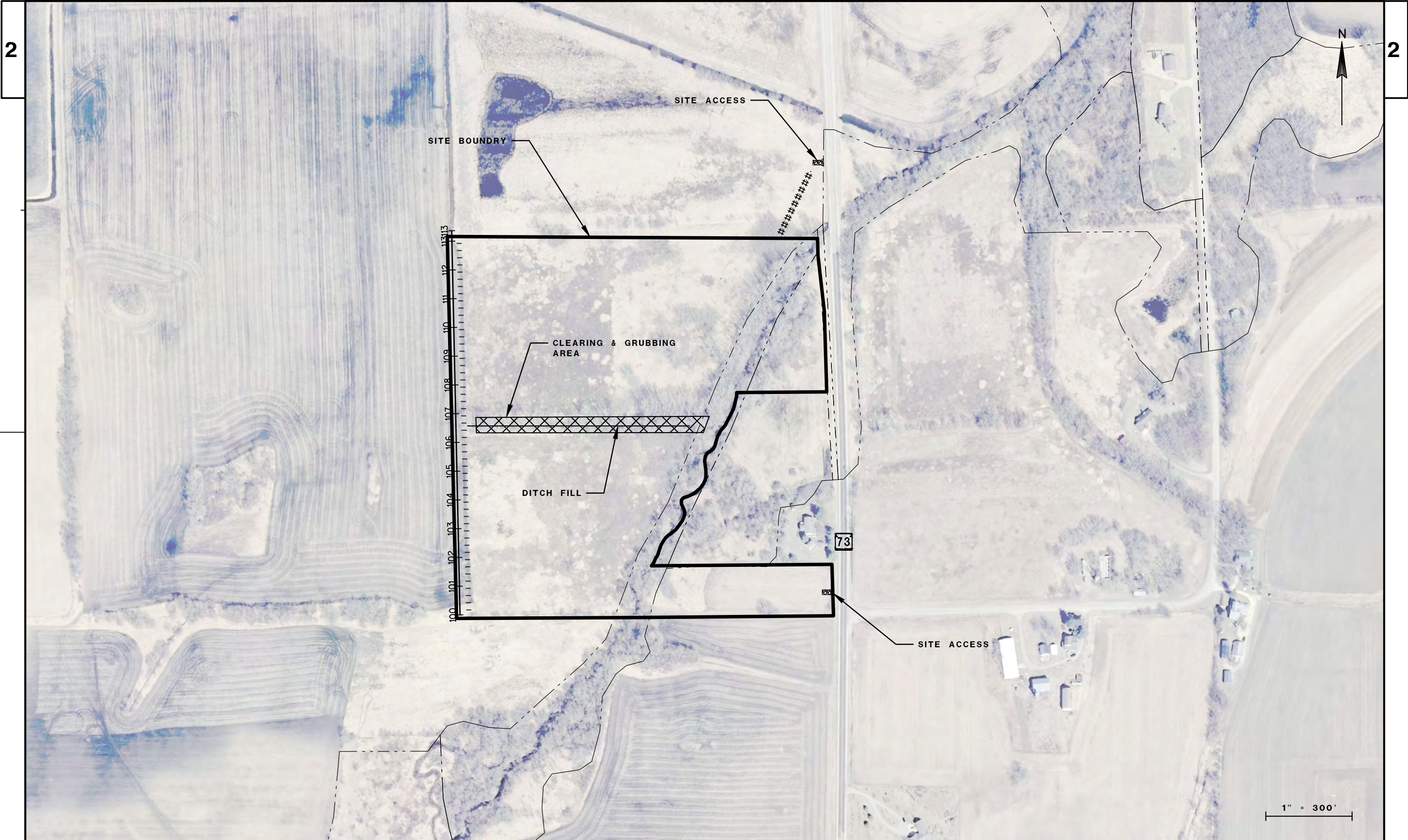
1" = 250'

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SITE ACCESS

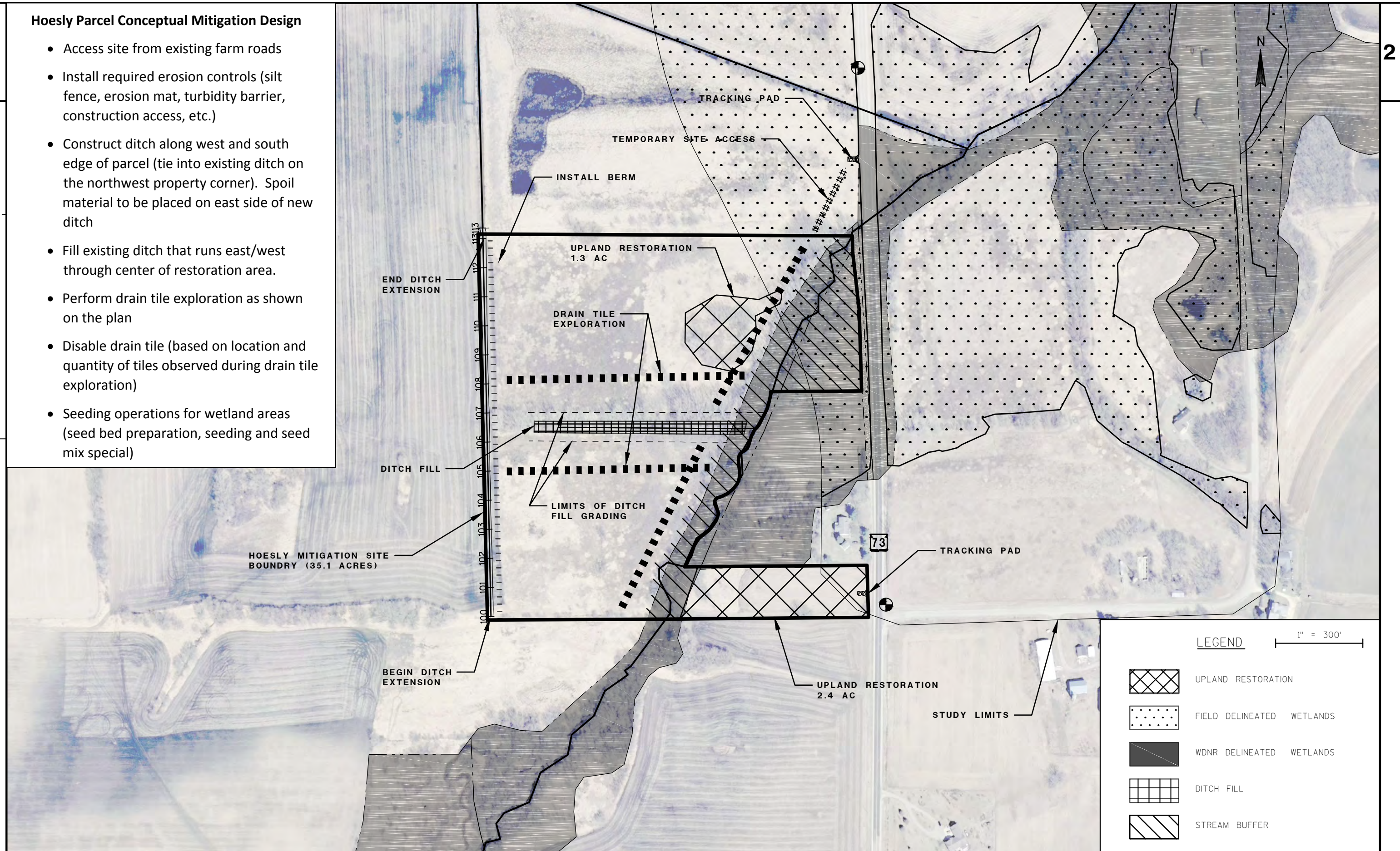
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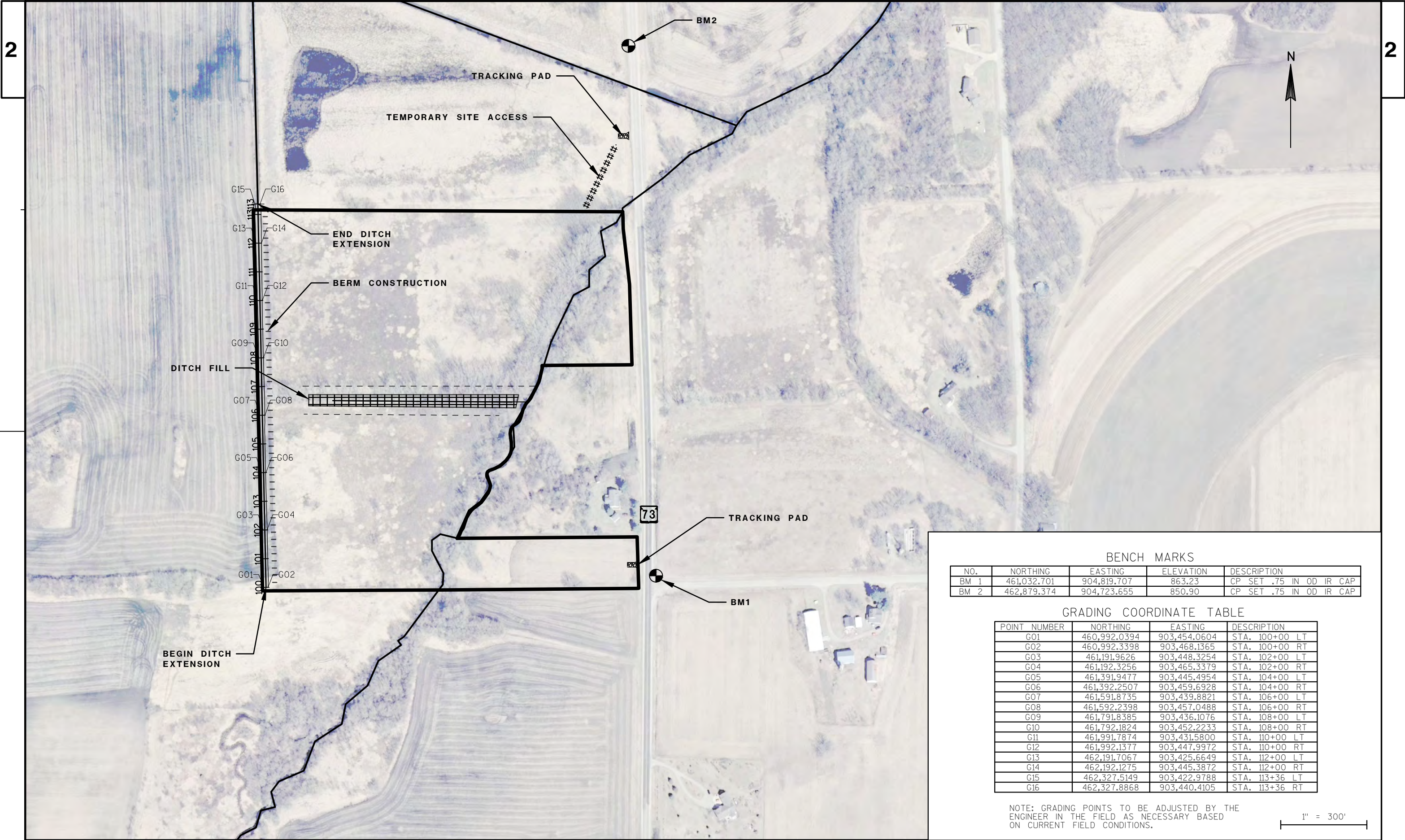
SITE ACCESS

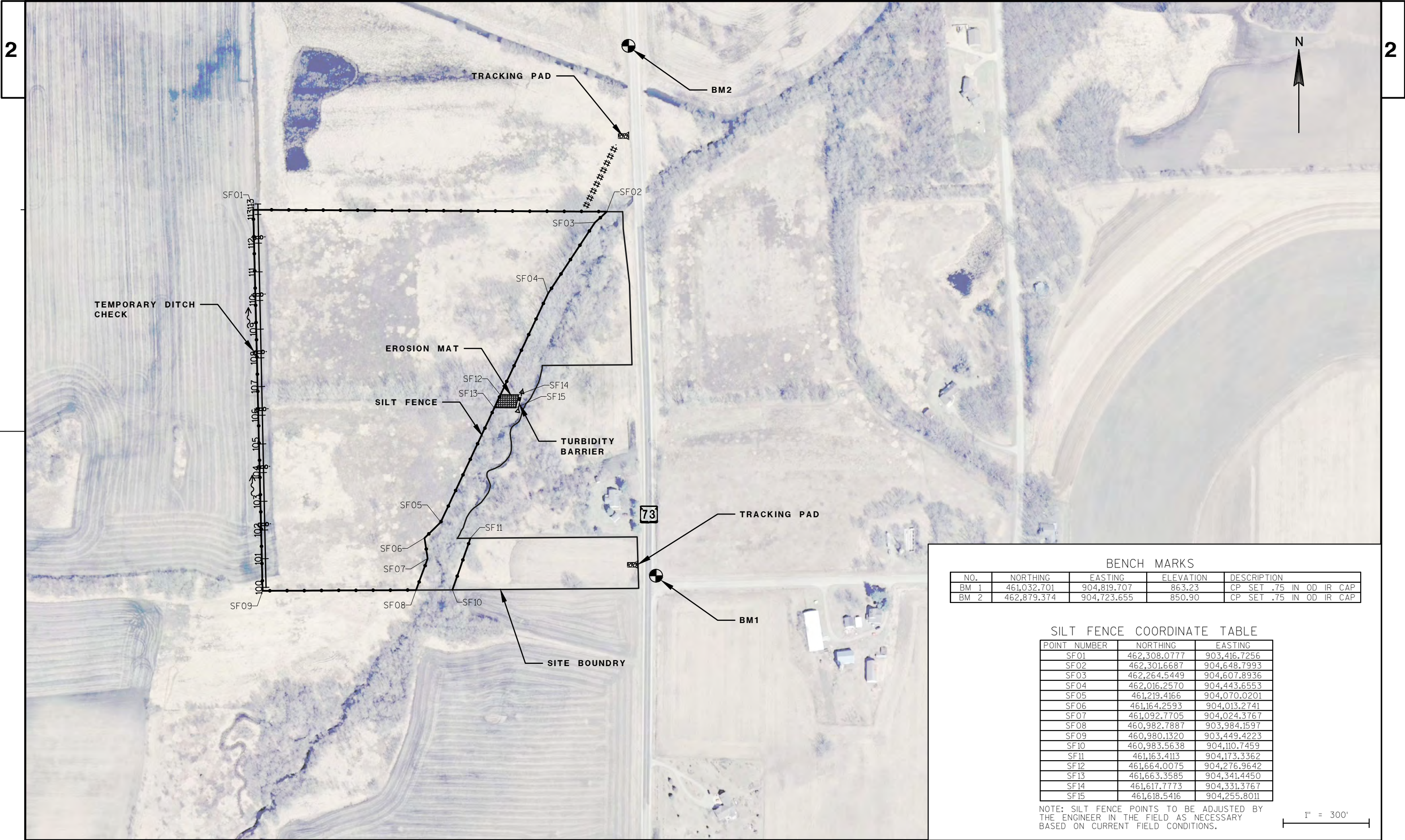


Hoesly Parcel Conceptual Mitigation Design

- Access site from existing farm roads
- Install required erosion controls (silt fence, erosion mat, turbidity barrier, construction access, etc.)
- Construct ditch along west and south edge of parcel (tie into existing ditch on the northwest property corner). Spoil material to be placed on east side of new ditch
- Fill existing ditch that runs east/west through center of restoration area.
- Perform drain tile exploration as shown on the plan
- Disable drain tile (based on location and quantity of tiles observed during drain tile exploration)
- Seeding operations for wetland areas (seed bed preparation, seeding and seed mix special)







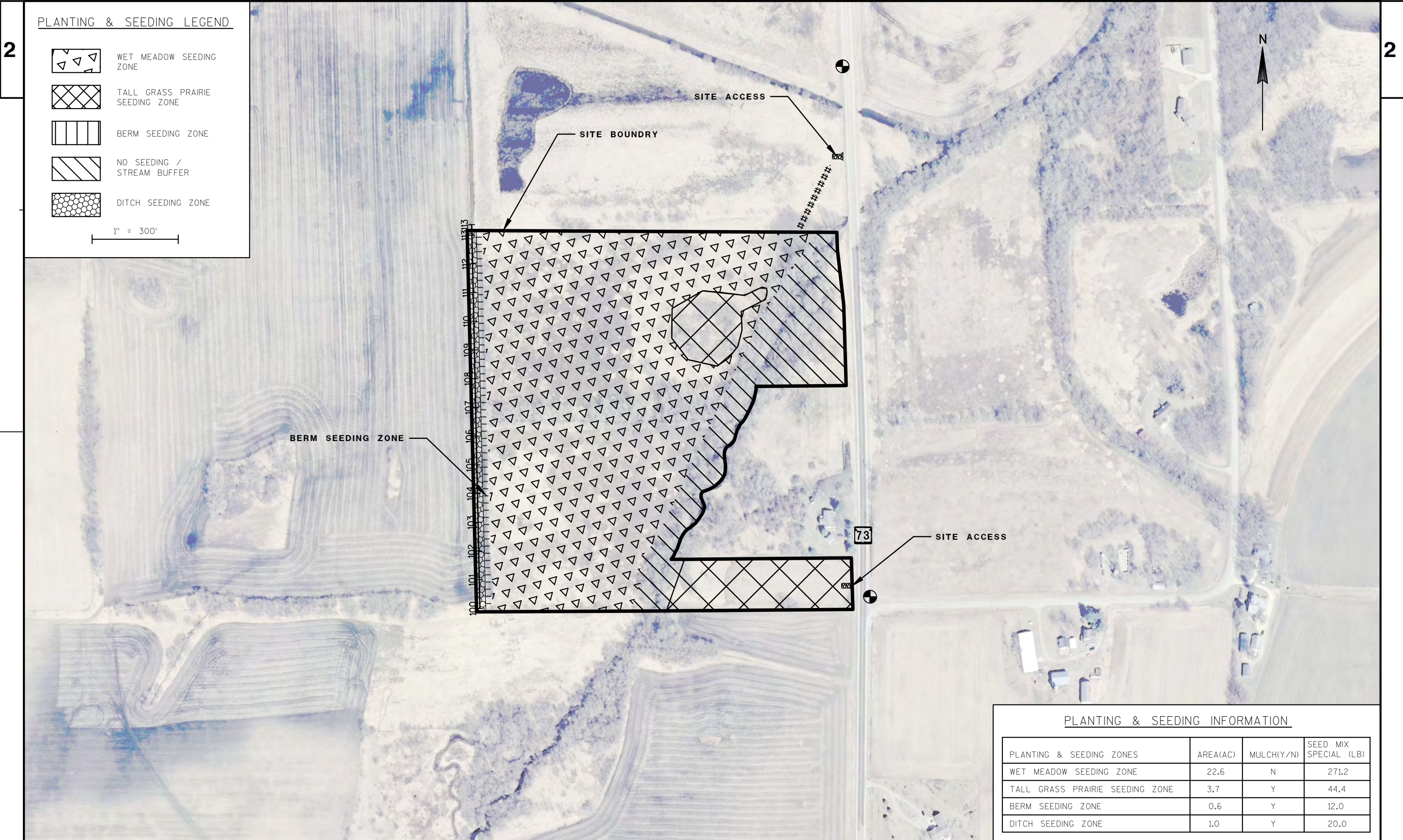
BENCH MARKS				
NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1	461,032.701	904,819.707	863.23	CP SET .75 IN OD IR CAP
BM 2	462,879.374	904,723.655	850.90	CP SET .75 IN OD IR CAP

SILT FENCE COORDINATE TABLE

POINT NUMBER	NORTHING	EASTING
SF01	462,308.0777	903,416.7256
SF02	462,301.6687	904,648.7993
SF03	462,264.5449	904,607.8936
SF04	462,016.2570	904,443.6553
SF05	461,219.4166	904,070.0201
SF06	461,164.2593	904,013.2741
SF07	461,092.7705	904,024.3767
SF08	460,982.7887	903,984.1597
SF09	460,980.1320	903,449.4223
SF10	460,983.5638	904,110.7459
SF11	461,163.4113	904,173.3362
SF12	461,664.0075	904,276.9642
SF13	461,663.3585	904,341.4450
SF14	461,617.7773	904,331.3767
SF15	461,618.5416	904,255.8011

NOTE: SILT FENCE POINTS TO BE ADJUSTED BY THE ENGINEER IN THE FIELD AS NECESSARY BASED ON CURRENT FIELD CONDITIONS.

1" = 300'



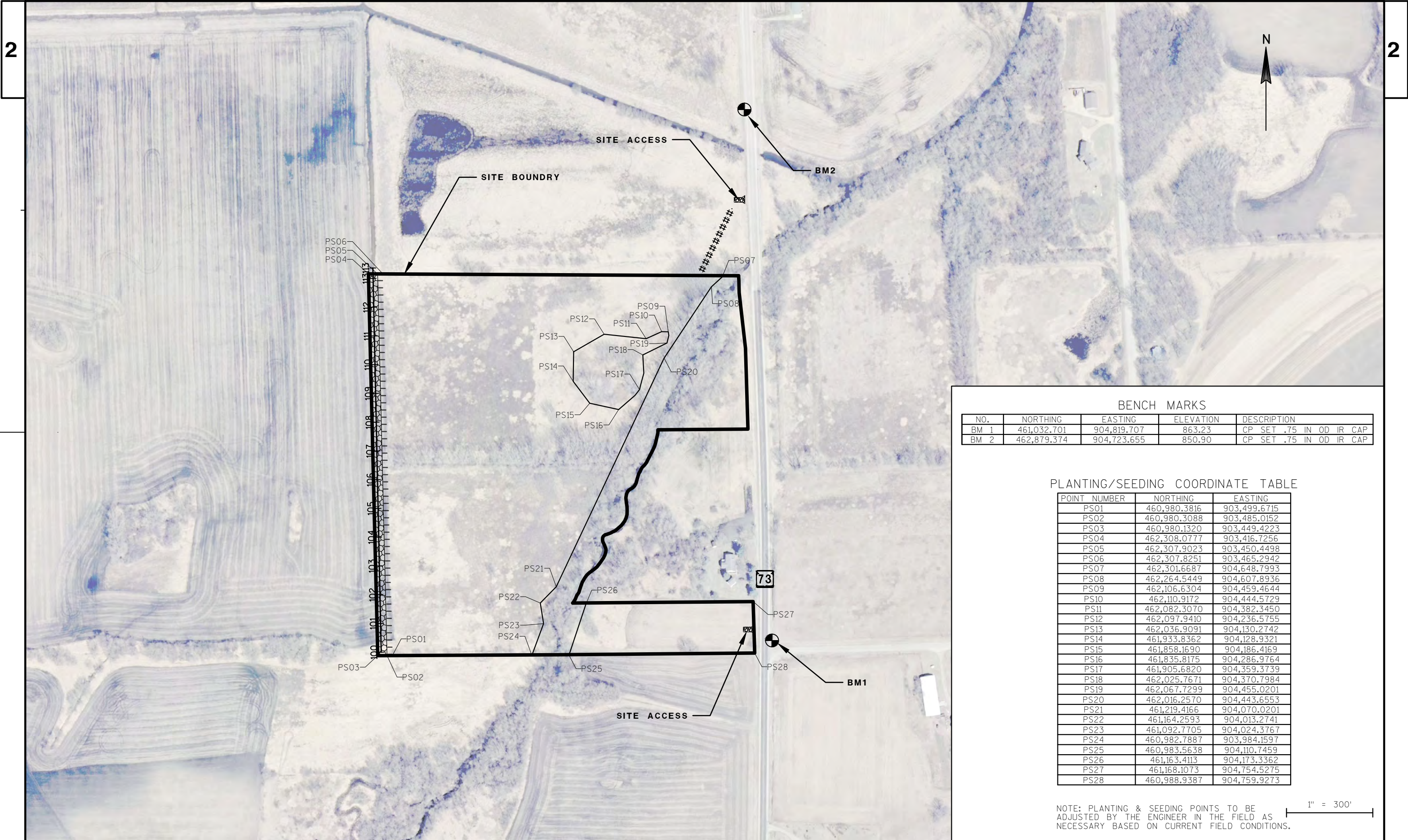
PLANTING & SEEDING LEGEND

- WET MEADOW SEEDING ZONE
- TALL GRASS PRAIRIE SEEDING ZONE
- BERM SEEDING ZONE
- NO SEEDING / STREAM BUFFER
- DITCH SEEDING ZONE

1" = 300'

PLANTING & SEEDING INFORMATION

PLANTING & SEEDING ZONES	AREA(AC)	MULCH(Y/N)	SEED MIX SPECIAL (LB)
WET MEADOW SEEDING ZONE	22.6	N	271.2
TALL GRASS PRAIRIE SEEDING ZONE	3.7	Y	44.4
BERM SEEDING ZONE	0.6	Y	12.0
DITCH SEEDING ZONE	1.0	Y	20.0



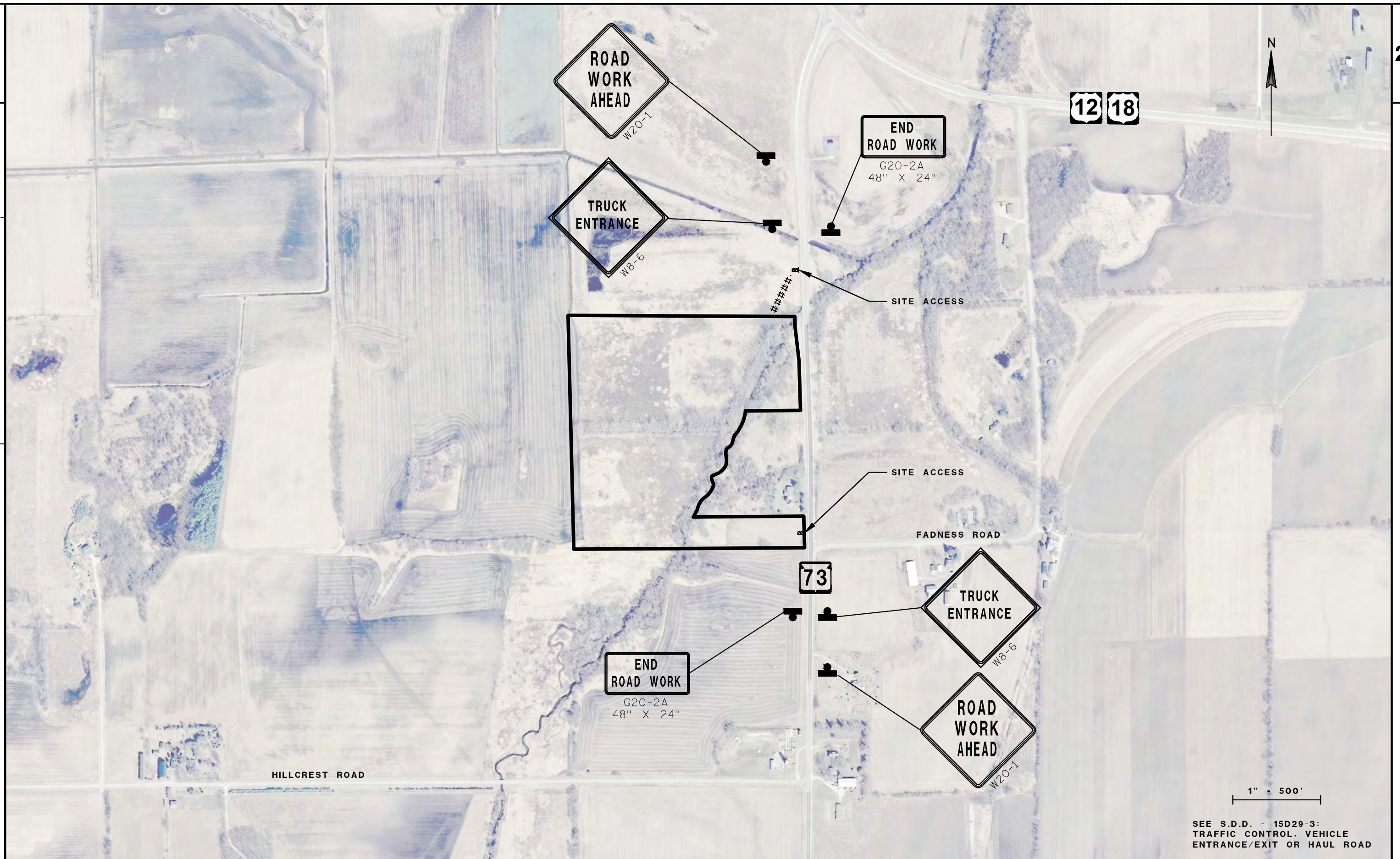
BENCH MARKS				
NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1	461,032.701	904,819.707	863.23	CP SET .75 IN OD IR CAP
BM 2	462,879.374	904,723.655	850.90	CP SET .75 IN OD IR CAP

PLANTING/SEEDING COORDINATE TABLE

POINT NUMBER	NORTHING	EASTING
PS01	460,980.3816	903,499.6715
PS02	460,980.3088	903,485.0152
PS03	460,980.1320	903,449.4223
PS04	462,308.0777	903,416.7256
PS05	462,307.9023	903,450.4498
PS06	462,307.8251	903,465.2942
PS07	462,301.6687	904,648.7993
PS08	462,264.5449	904,607.8936
PS09	462,106.6304	904,459.4644
PS10	462,110.9172	904,444.5729
PS11	462,082.3070	904,382.3450
PS12	462,097.9410	904,236.5755
PS13	462,036.9091	904,130.2742
PS14	461,933.8362	904,128.9321
PS15	461,858.1690	904,186.4169
PS16	461,835.8175	904,286.9764
PS17	461,905.6820	904,359.3739
PS18	462,025.7671	904,370.7984
PS19	462,067.7299	904,455.0201
PS20	462,016.2570	904,443.6553
PS21	461,219.4166	904,070.0201
PS22	461,164.2593	904,013.2741
PS23	461,092.7705	904,024.3767
PS24	460,982.7887	903,984.1597
PS25	460,983.5638	904,110.7459
PS26	461,163.4113	904,173.3362
PS27	461,168.1073	904,754.5275
PS28	460,988.9387	904,759.9273

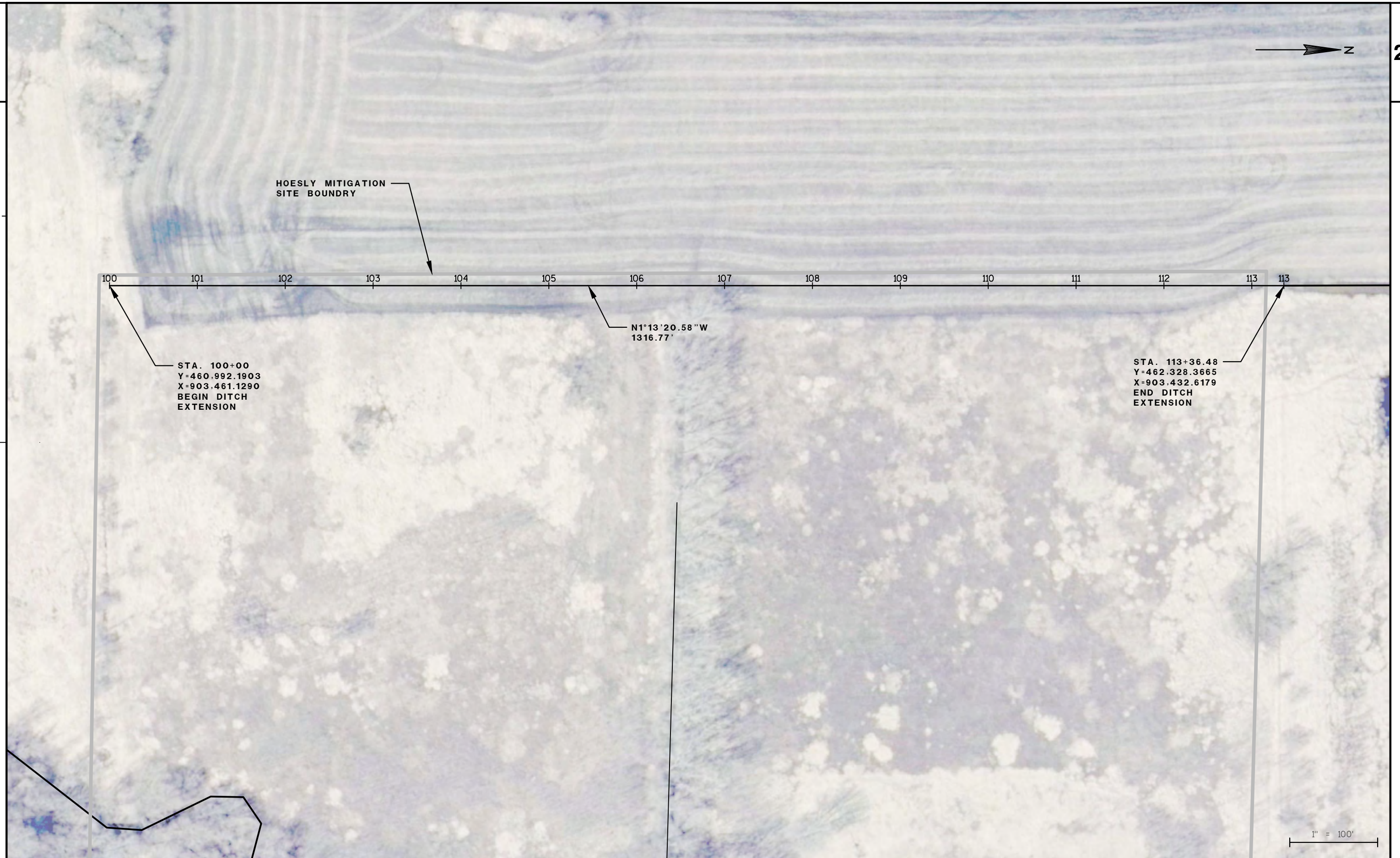
NOTE: PLANTING & SEEDING POINTS TO BE ADJUSTED BY THE ENGINEER IN THE FIELD AS NECESSARY BASED ON CURRENT FIELD CONDITIONS.

1" = 300'



2

2



PROJECT NO: 3070-00-74	HWY: NON-HIGHWAY	COUNTY: DANE	ALIGNMENT DETAILS	SHEET -----	E
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DATE 03JUN14			E S T I M A T E O F Q U A N T I T I E S		
LINE			3070-00-74		
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0115	CLEARING	ACRE	1.000	1.000
0020	201.0215	GRUBBING	ACRE	1.000	1.000
0030	205.0100	EXCAVATION COMMON	CY	13,790.000	13,790.000
0040	612.0700	DRAIN TILE EXPLORATION	LF	3,080.000	3,080.000
0050	619.1000	MOBILIZATION	EACH	1.000	1.000
0060	625.0500	SALVAGED TOPSOIL	SY	5,460.000	5,460.000
0070	627.0200	MULCHING	SY	28,060.000	28,060.000
0080	628.1504	SILT FENCE	LF	5,280.000	5,280.000
0090	628.1520	SILT FENCE MAINTENANCE	LF	5,280.000	5,280.000
0100	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000	1.000
0110	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0120	628.2006	EROSION MAT URBAN CLASS I TYPE A	SY	396.000	396.000
0130	628.6005	TURBIDITY BARRIERS	SY	16.000	16.000
0140	628.6510	SOIL STABILIZER TYPE B	ACRE	1.100	1.100
0150	628.7504	TEMPORARY DITCH CHECKS	LF	120.000	120.000
0160	628.7560	TRACKING PADS	EACH	2.000	2.000
0170	643.0100	TRAFFIC CONTROL (PROJECT) 01.	EACH	1.000	1.000
0180	643.0900	TRAFFIC CONTROL SIGNS	DAY	350.000	350.000
0190	SPV.0005	SPECIAL 01. SEED BED PREPARATION	ACRE	28.400	28.400
0200	SPV.0005	SPECIAL 02. SEEDING	ACRE	28.400	28.400
0210	SPV.0085	SPECIAL 01. SEED MIX SPECIAL	LB	353.600	353.600
0220	SPV.0090	SPECIAL 01. DRAINTILE DISABLEMENT	LF	5,940.000	5,940.000
0230	SPV.0090	SPECIAL 02. TEMPORARY SITE ACCESS	LF	275.000	275.000
0240	SPV.0105	SPECIAL 01. CONSTRUCTION STAKING MITIGATION SITE	LS	1.000	1.000

CLEARING AND GRUBBING

CATEGORY	LOCATION	201.0115 CLEARING ACRE	201.0215 GRUBBING ACRE
0010	STAGE 1	1	1
PROJECT TOTAL:		1	1

205.0100
EXCAVATION COMMON

CATEGORY	LOCATION	CY
0010	DITCH EXTENSION	10,470
	DITCH FILL	650
	UNDISTRIBUTED	2,670
PROJECT TOTAL:		13,790

DRAINTILE

		612.0700 DRAINTILE EXPLORATION LF	SPV.0090.01 DRAINTILE DISABLEMENT LF
0010	PROJECT	2,800	5,400
	UNDISTRIBUTED	280	540
PROJECT TOTAL:		3,080	5,940

Location	205.0100 Common Excavation (1)		Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow	Comment:
	Cut (2)	EBS* (3)				Factor 1.00				
Ditch Extension	10,470	0	0	10,470	0	0	10,470	10,470	0	
Ditch Fill	650		0	650	0	0	650	650	0	
Undistributed	2,670		0	2,670	0	0	2,670	2,670	0	
Subtotal	13,790	0	0	13,790	0	0	13,790	13,790	0	
Total	13,790	0	0	13,790	0	0	13,790	13,790	0	
Total Common Excavation:		13,790								

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns.
- 2) Salvaged/Unusable Pavement Material is included in Cut.
- 3) EBS Excavation is an Undistributed Quantity and is to be backfilled with Breaker Run.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut - Salvaged/Unusable Pavement Material*90%
- 6) Expanded Fill. Factor = 1.25
- 7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

625.0500 SALVAGED TOPSOIL		
CATEGORY	LOCATION	SY
0010	DITCH EXTENSION	5,200
	UNDISTRIBUTED 5%	260
PROJECT TOTAL:		5,460

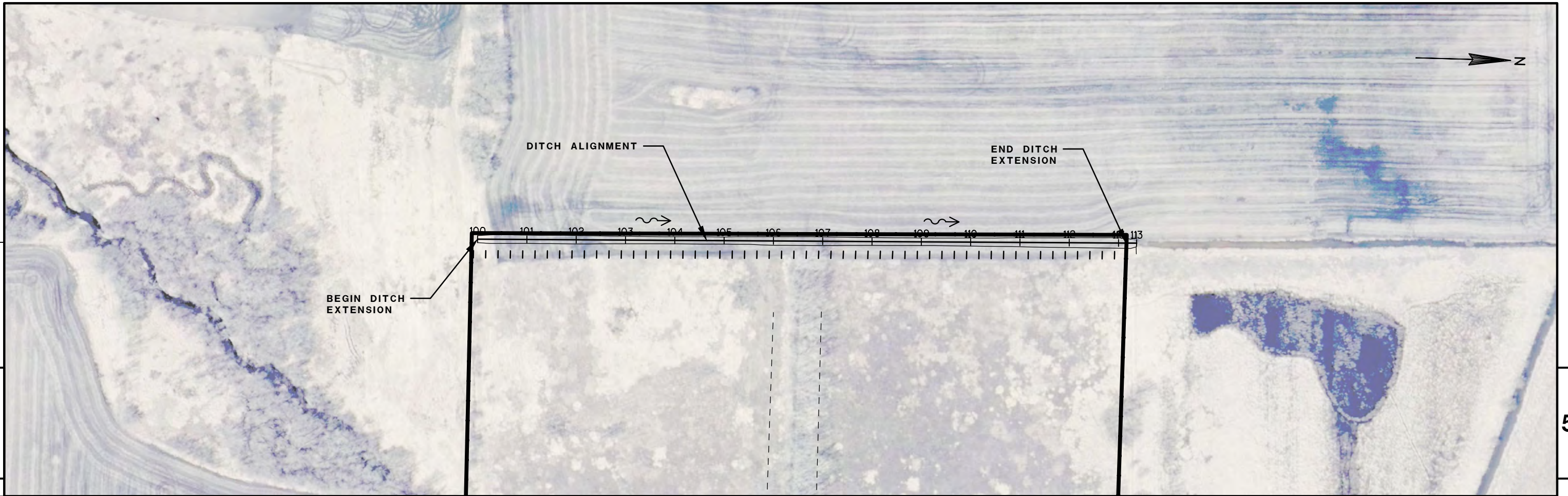
Erosion Control								
		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	628.2006 EROSION MAT URBAN CLASS I TYPE A	628.6005 TURBIDITY BARRIER	628.7504 TEMPORARY DITCH CHECKS
CATEGORY	LOCATION	LF	LF	EACH	EACH	SY	SY	LF
0010	PROJECT SITE	4,800	4,800	1	1	360	14	108
	UNDISTRIBUTED	480	480	--	--	36	2	12
PROJECT TOTAL:		5,280	5,280	1	1	396	16	120

SITE ACCESS			
		628.7560 TRACKING PADS	SPV0090.02 TEMPORARY SITE ACCESS
CATEGORY	LOCATION	EACH	LF
0010	NORTHEAST QUADRANT	1	275
	SOUTHEAST QUADRANT	1	--
PROJECT TOTAL:		2	275

PLANTING AND SEEDING						
		627.0200 MULCHING	628.6510 SOIL STABILIZER TYPE B	SPV.0005.01 SEED BED PREPARATION	SPV.0005.02 SEEDING	SPV.0085.01 SEED MIX SPECIAL
CATEGORY	LOCATION	SY	ACRE	ACRE	ACRE	LB
0010	WET MEADOW	-	-	22.6	22.6	271.2
	TALL GRASS PRAIRIE	17,900	-	3.7	3.7	44.4
	BERM	2,900	-	0.6	0.6	12.0
	DITCH	4,840	1.0	1.0	1.0	20.0
	UNDISTRIBUTED	2,420	0.1	0.5	0.5	6.0
PROJECT TOTAL:		28,060	1.1	28.4	28.4	353.6

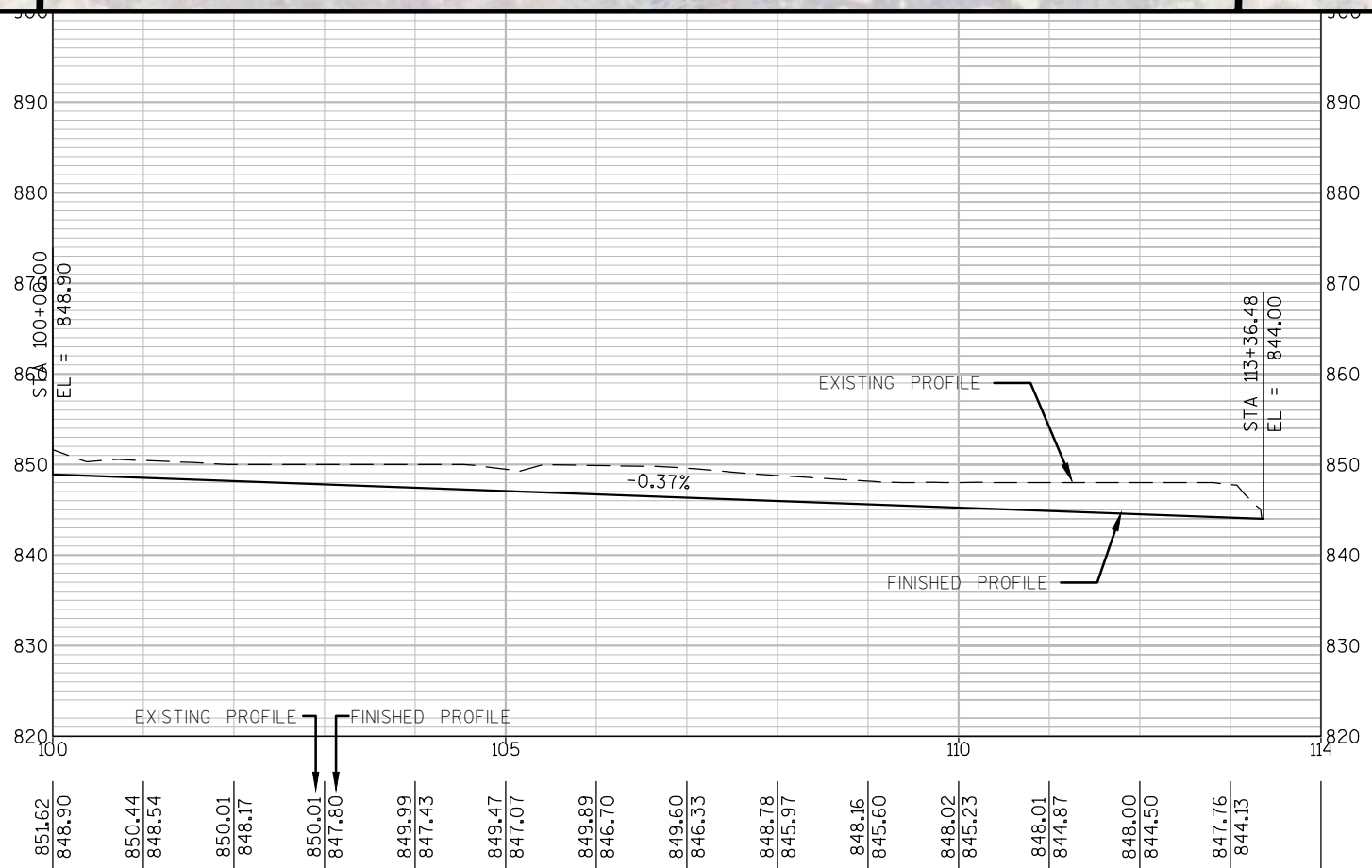
643.0100 TRAFFIC CONTROL PROJECT 3070-00-74		
CATEGORY	LOCATION	EACH
0010	PROJECT	1
PROJECT TOTAL:		1

643.0900 TRAFFIC CONTROL SIGNS PROJECT 3070-00-74		
CATEGORY	LOCATION	DAY
0010	PROJECT	350
PROJECT TOTAL:		350



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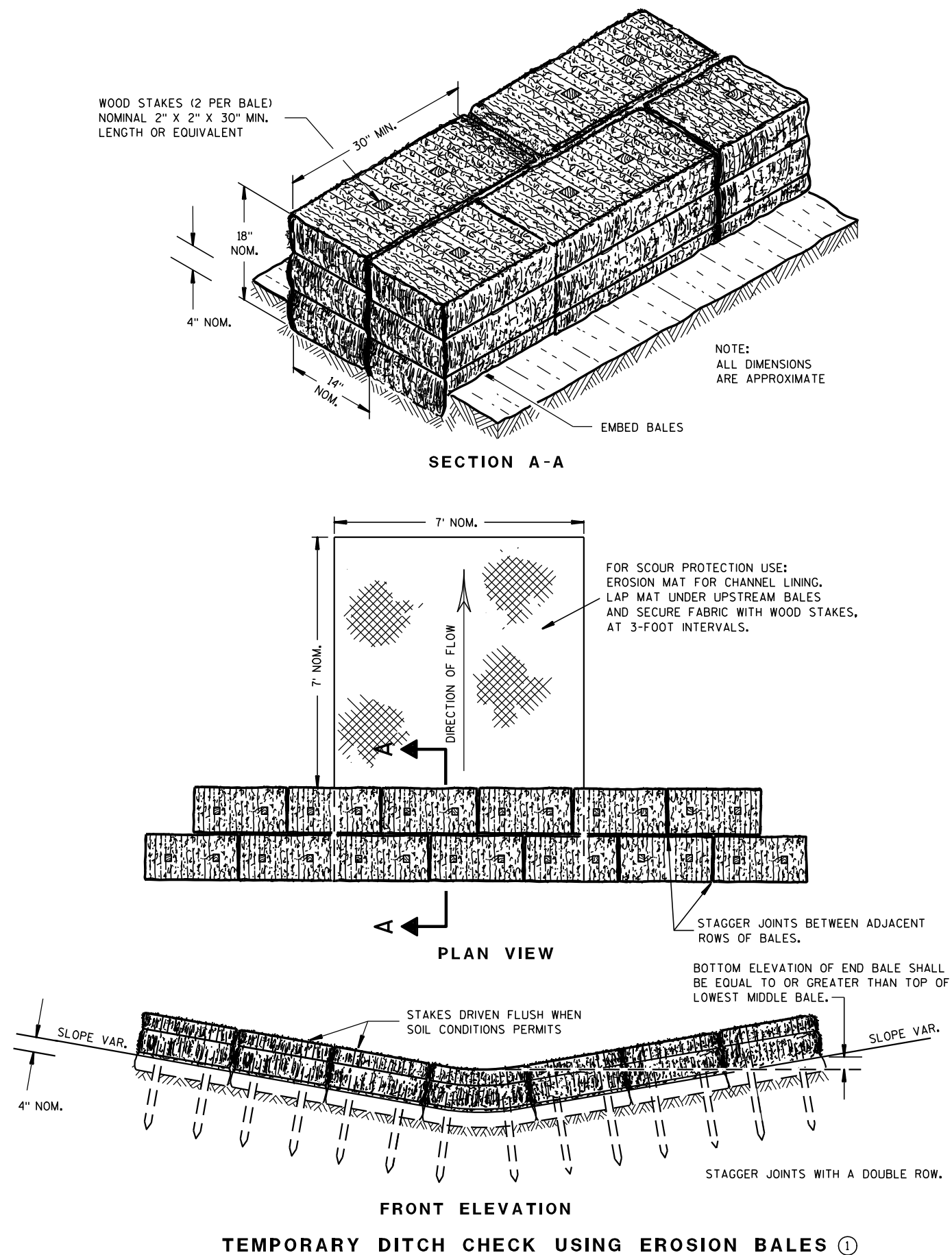
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1" = 200'

Standard Detail Drawing List

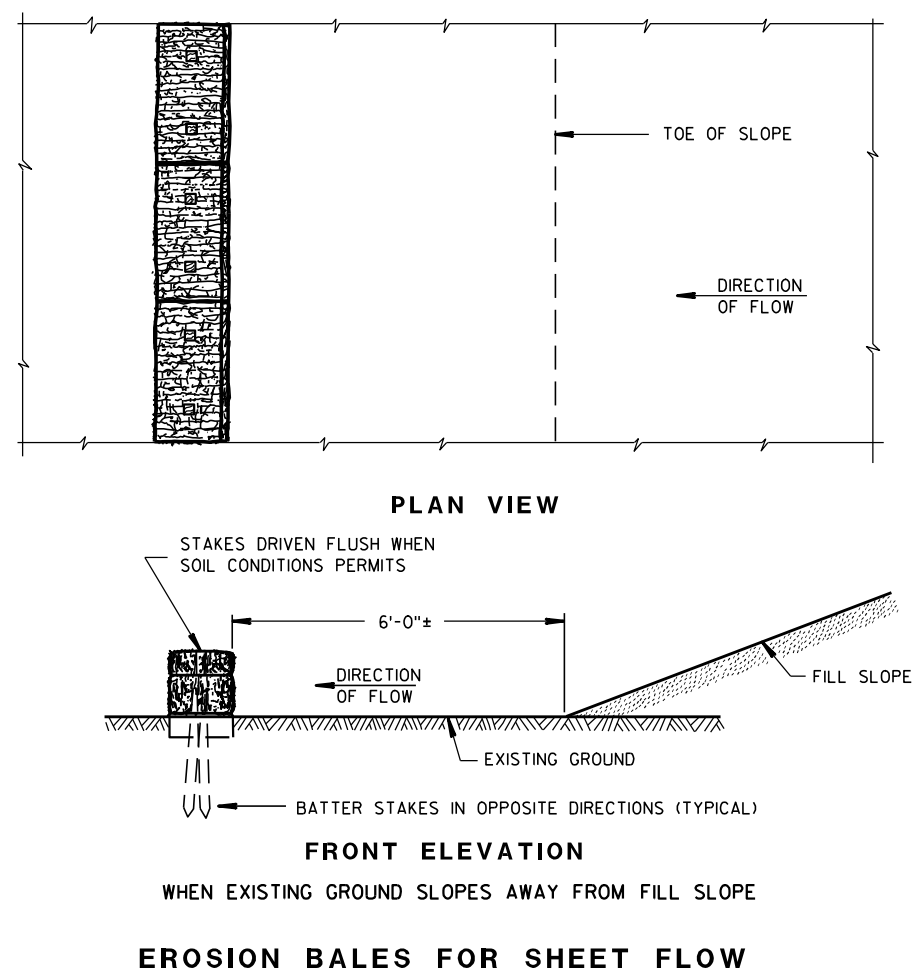
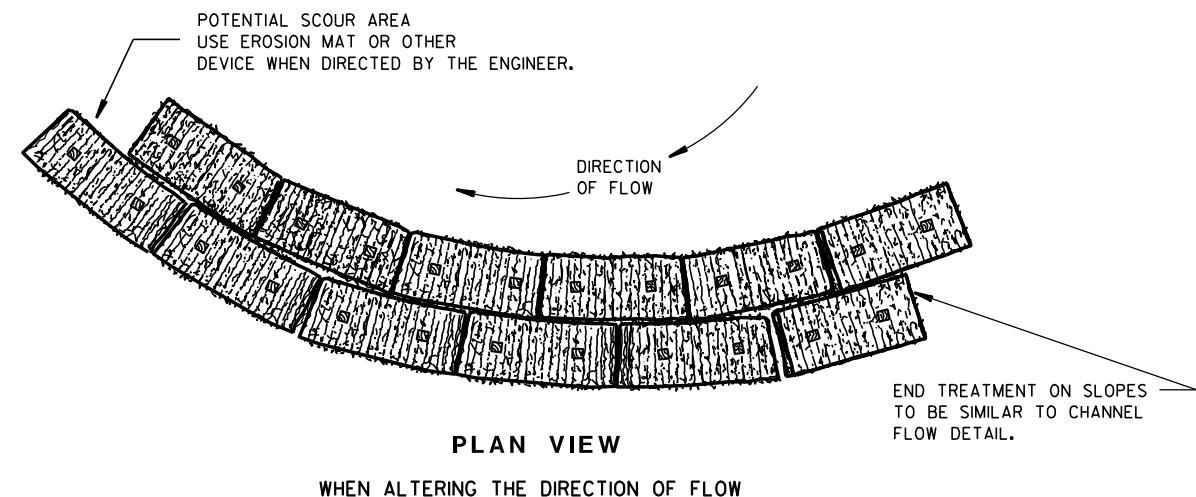
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD



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.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

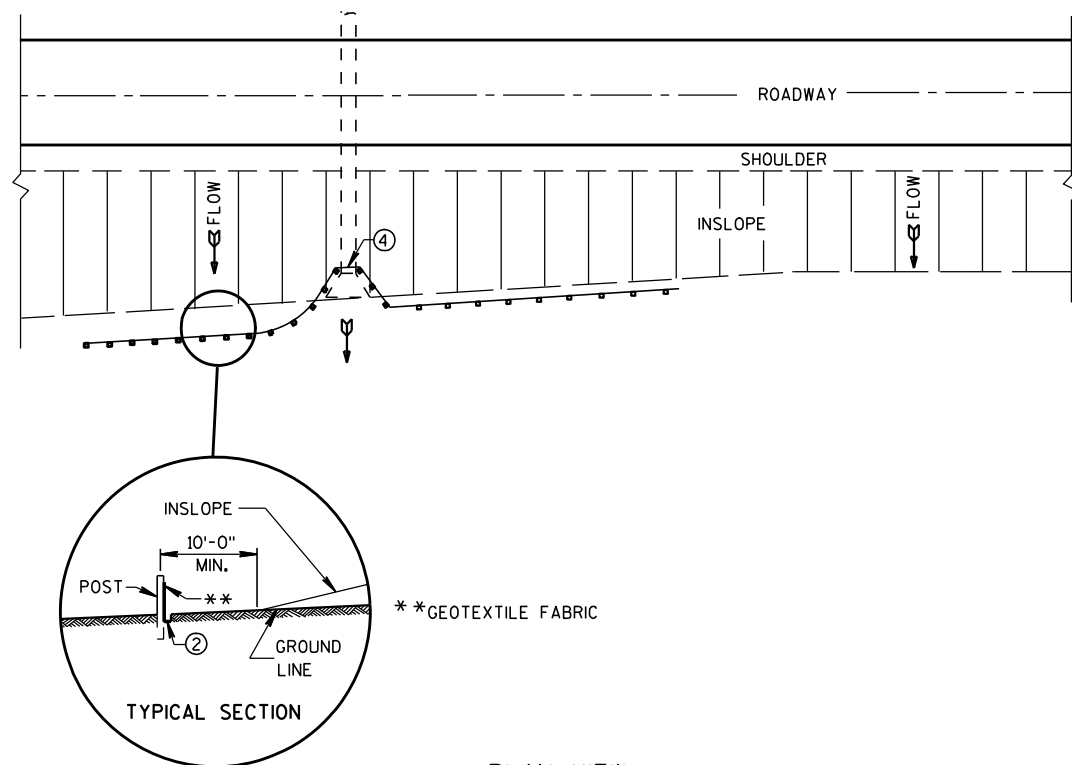
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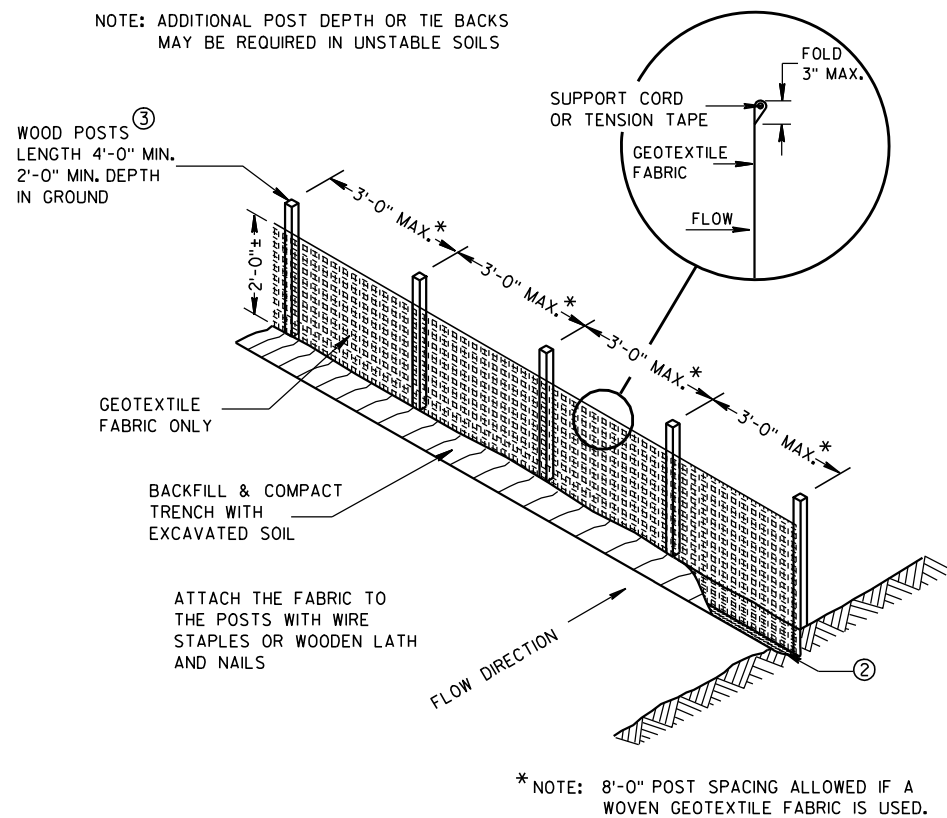
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

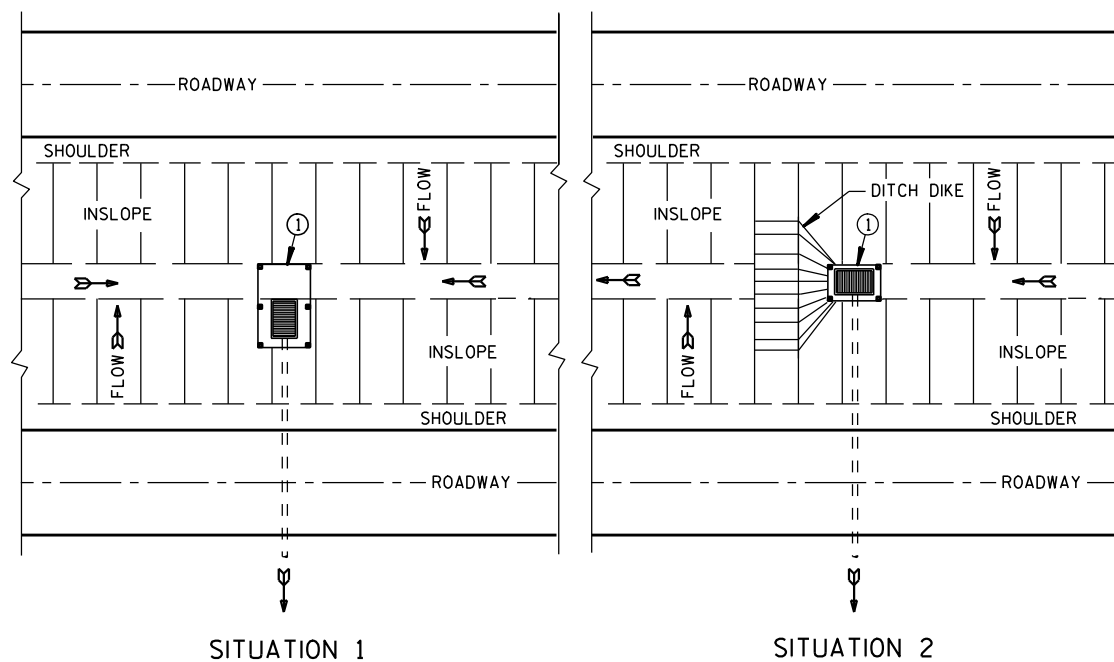


TYPICAL APPLICATION OF SILT FENCE

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

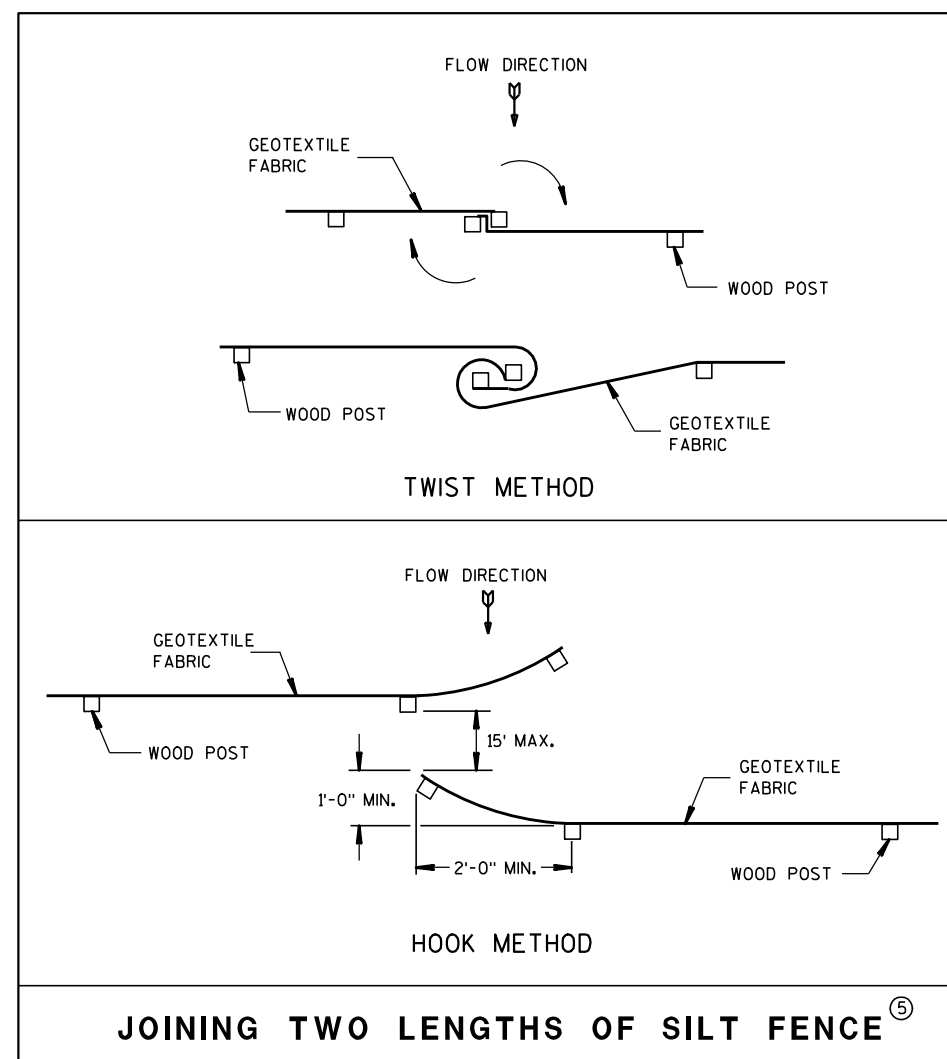


SILT FENCE



PLAN VIEW

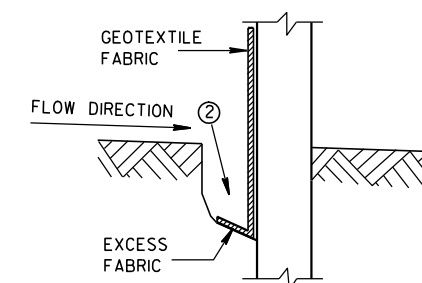
SILT FENCE AT MEDIAN SURFACE DRAINS



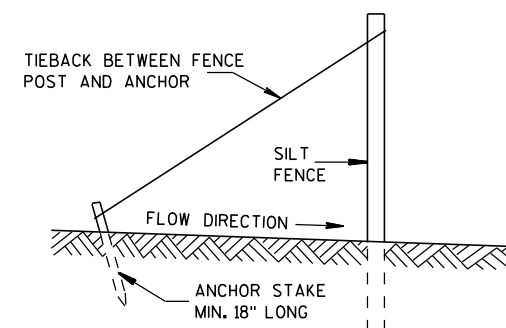
GENERAL NOTES

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

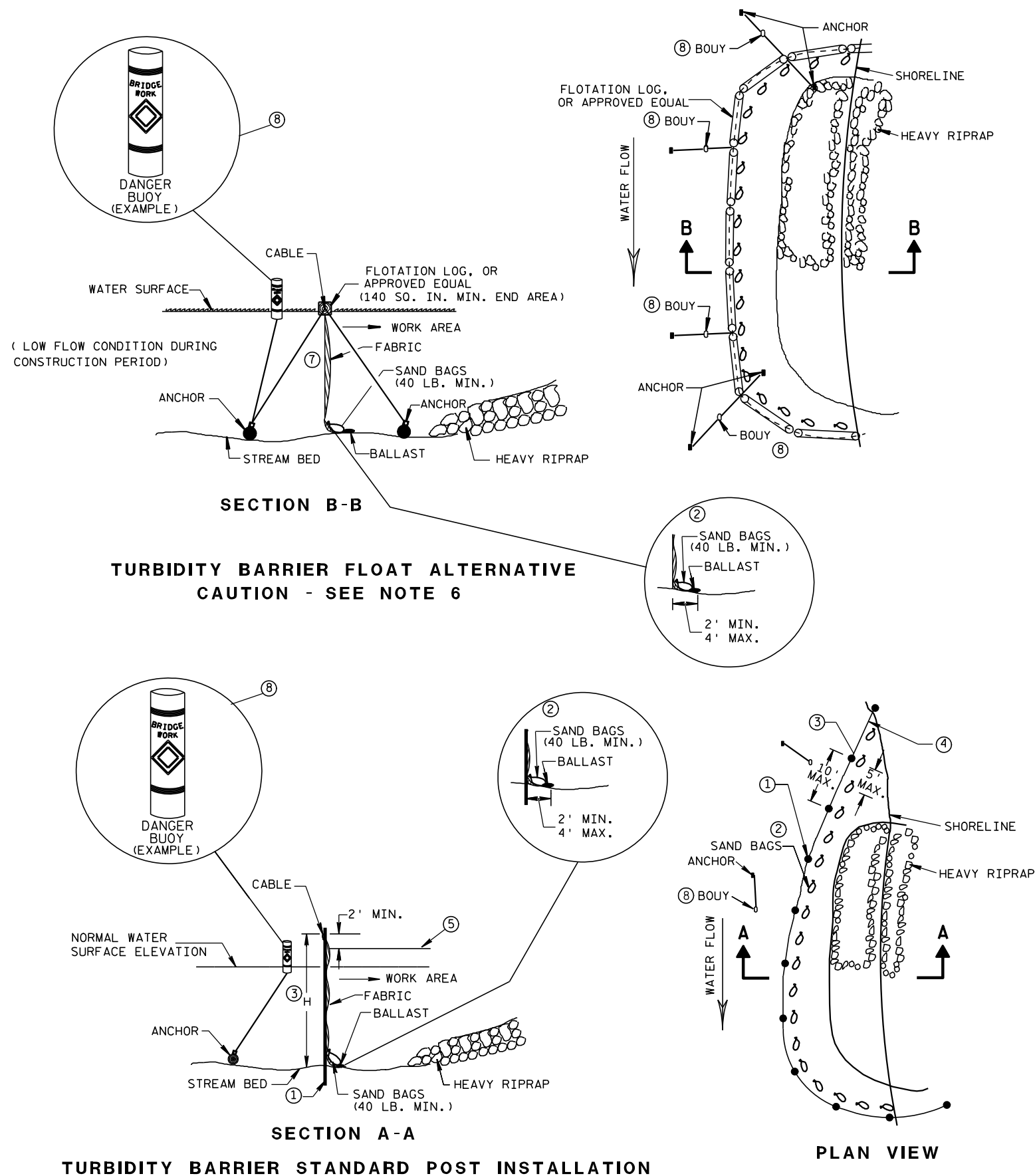
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/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

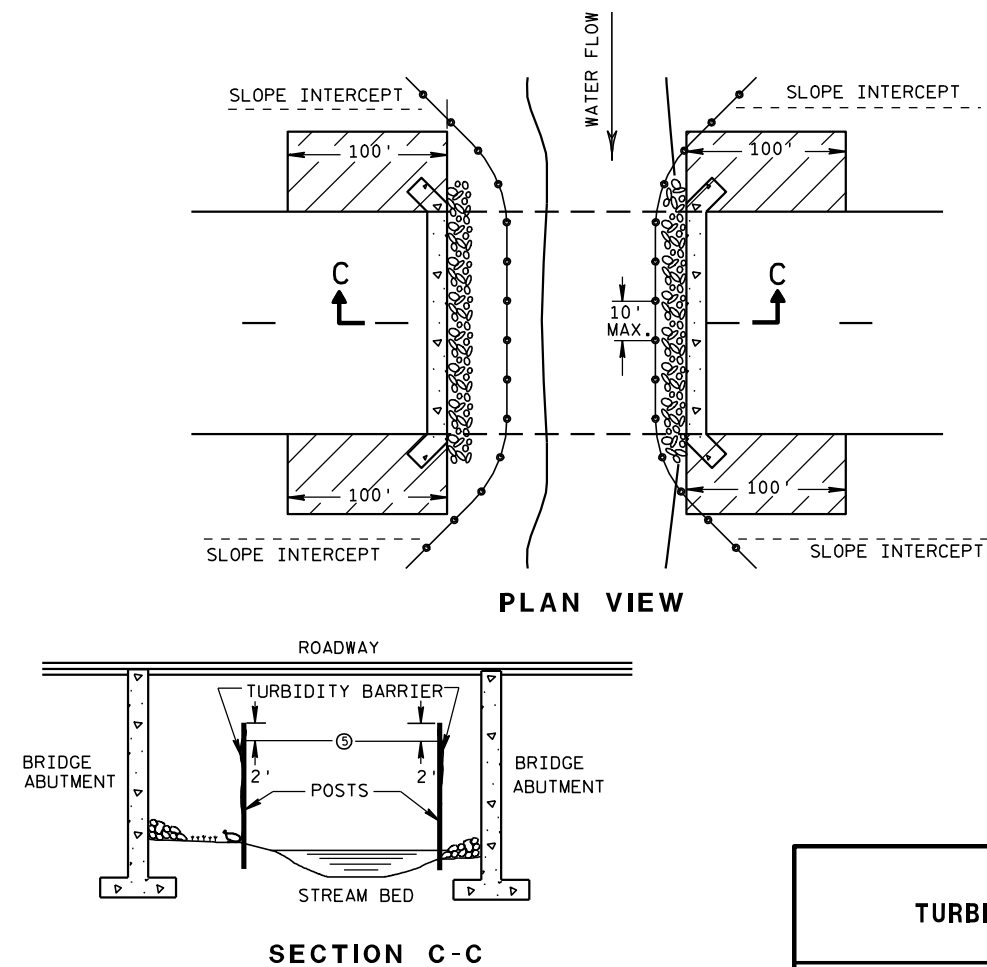


GENERAL NOTES

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. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER 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.



TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

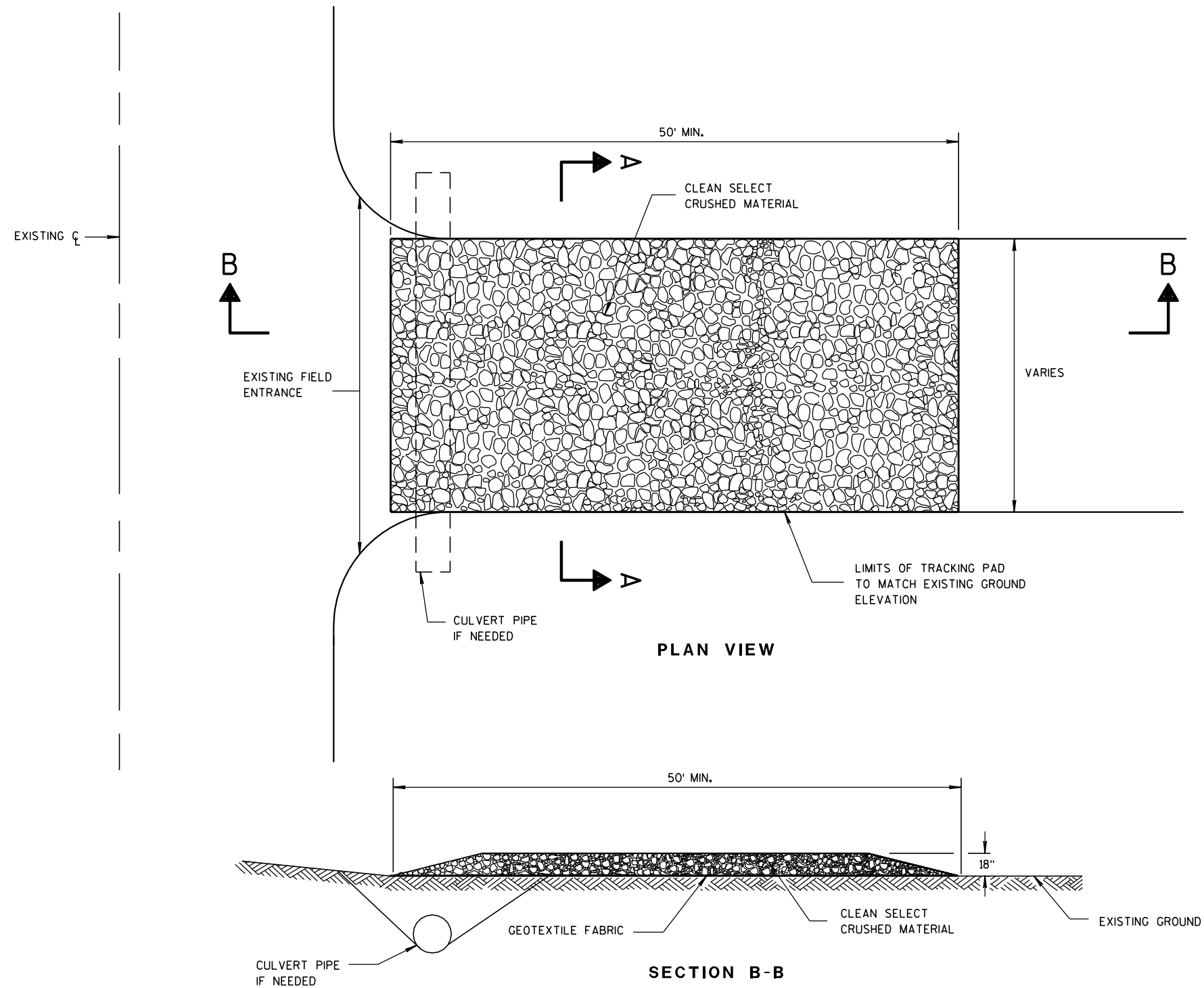
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6/04/02
DATE

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/S/ Beth Connestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



TRACKING PAD

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.

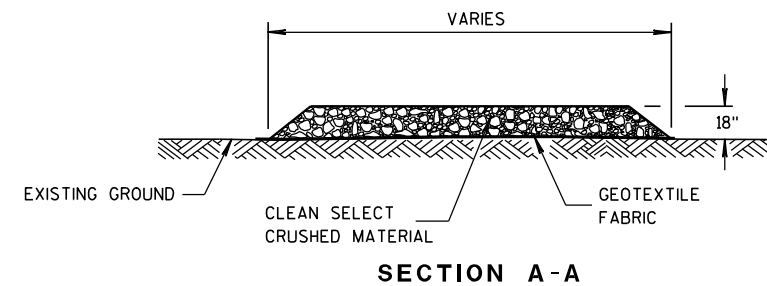
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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.



TRACKING PAD

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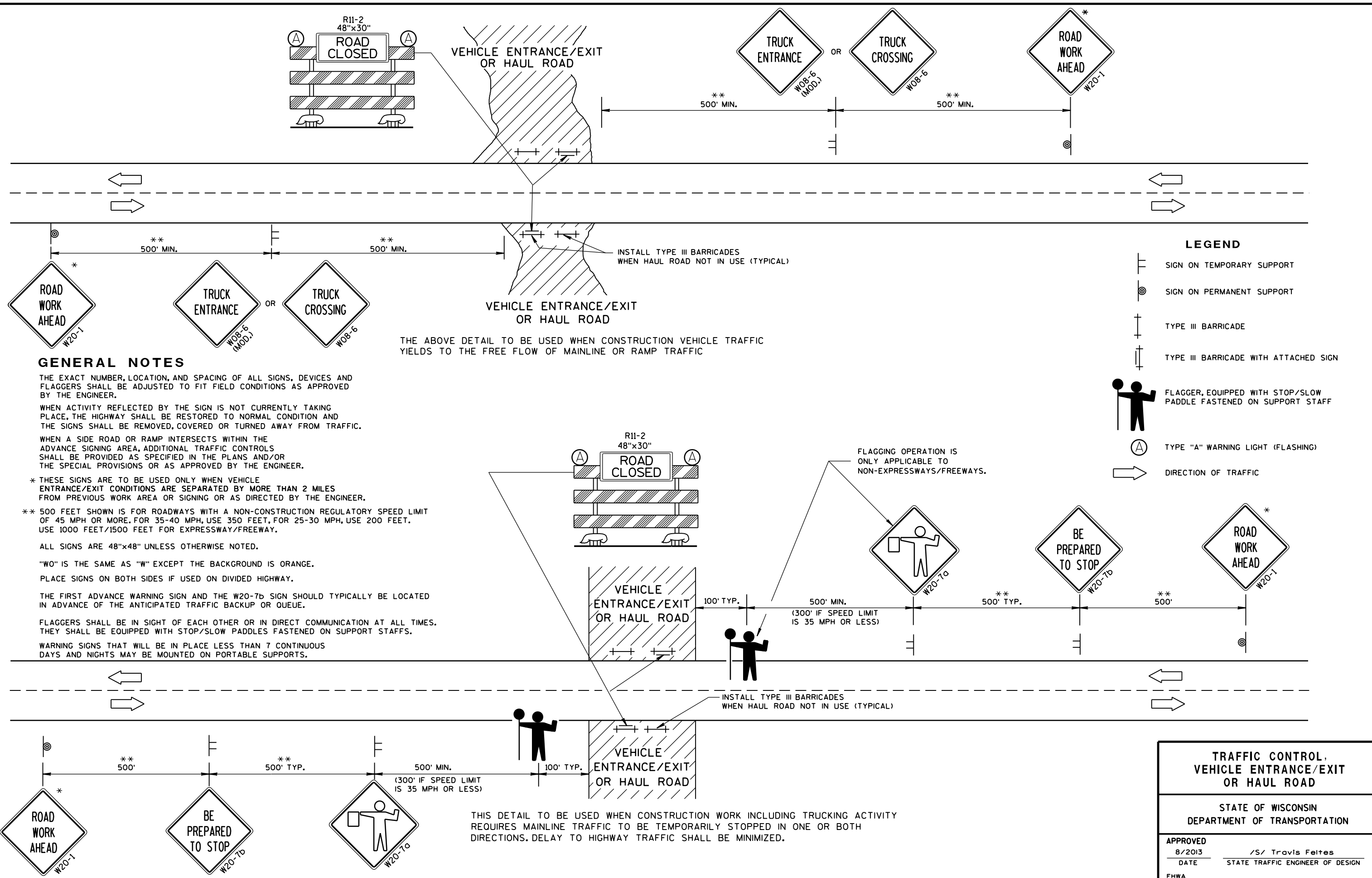
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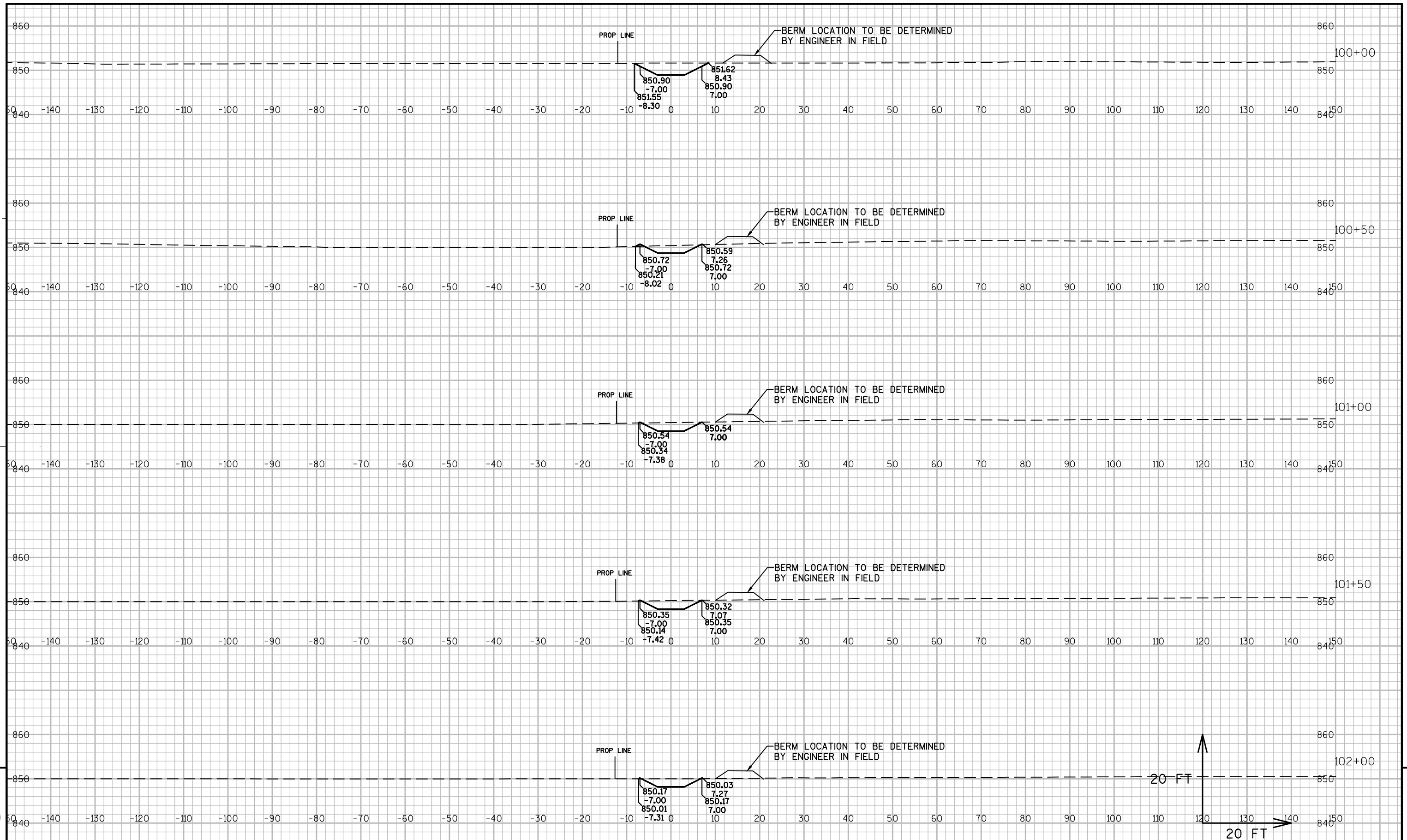
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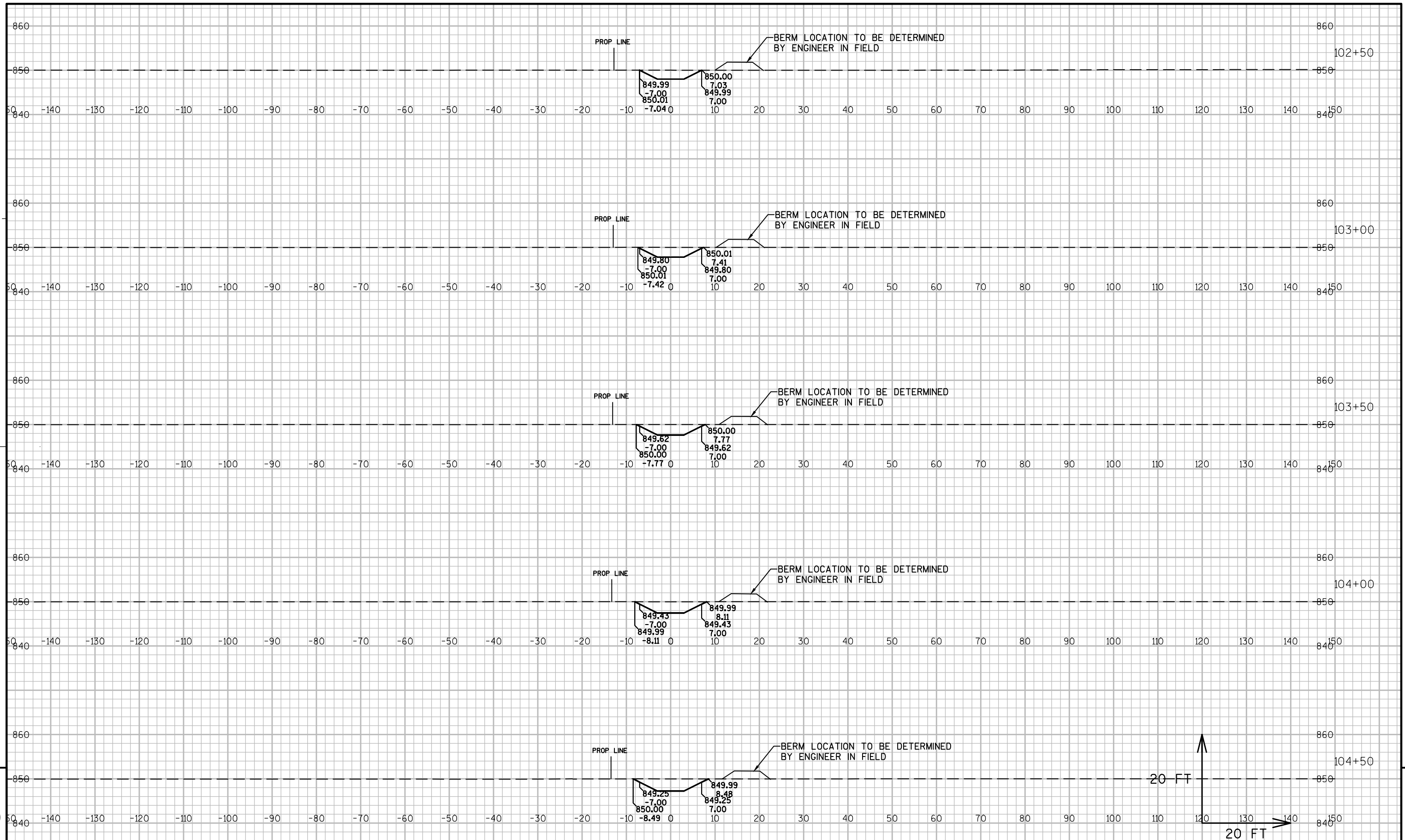
/S/ Jerry H. Zogg

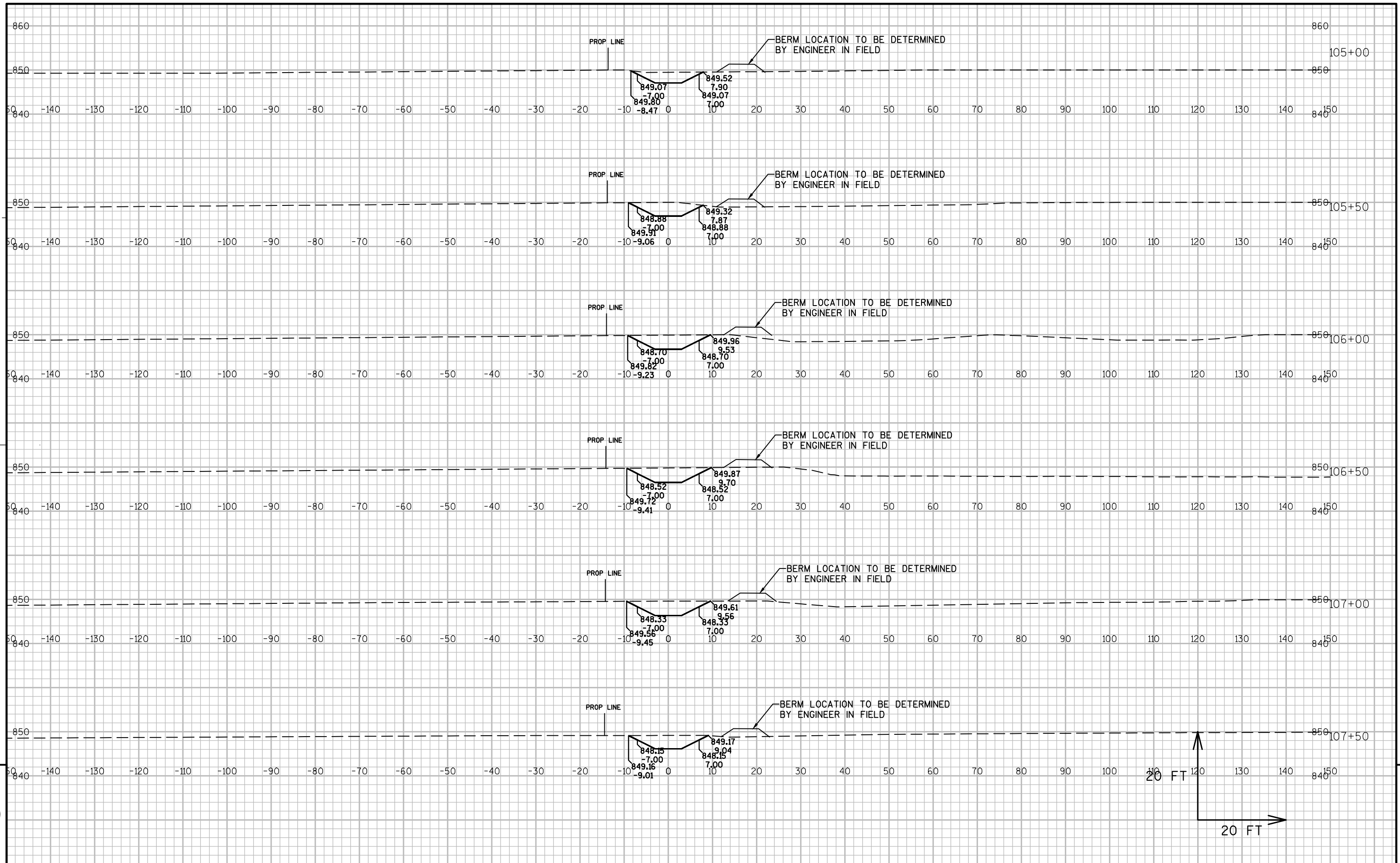
ROADWAY STANDARDS DEVELOPMENT

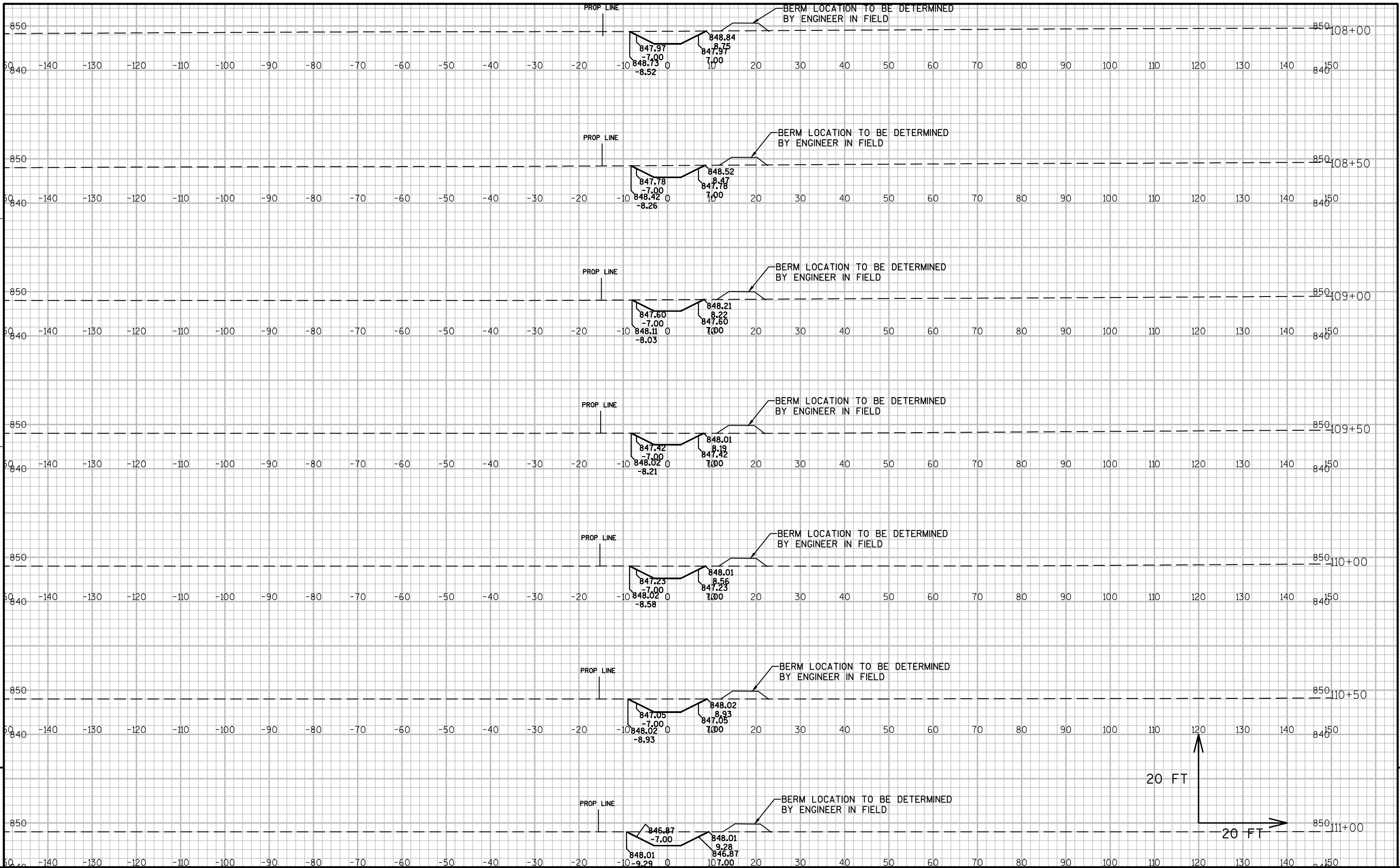
ENGINEER

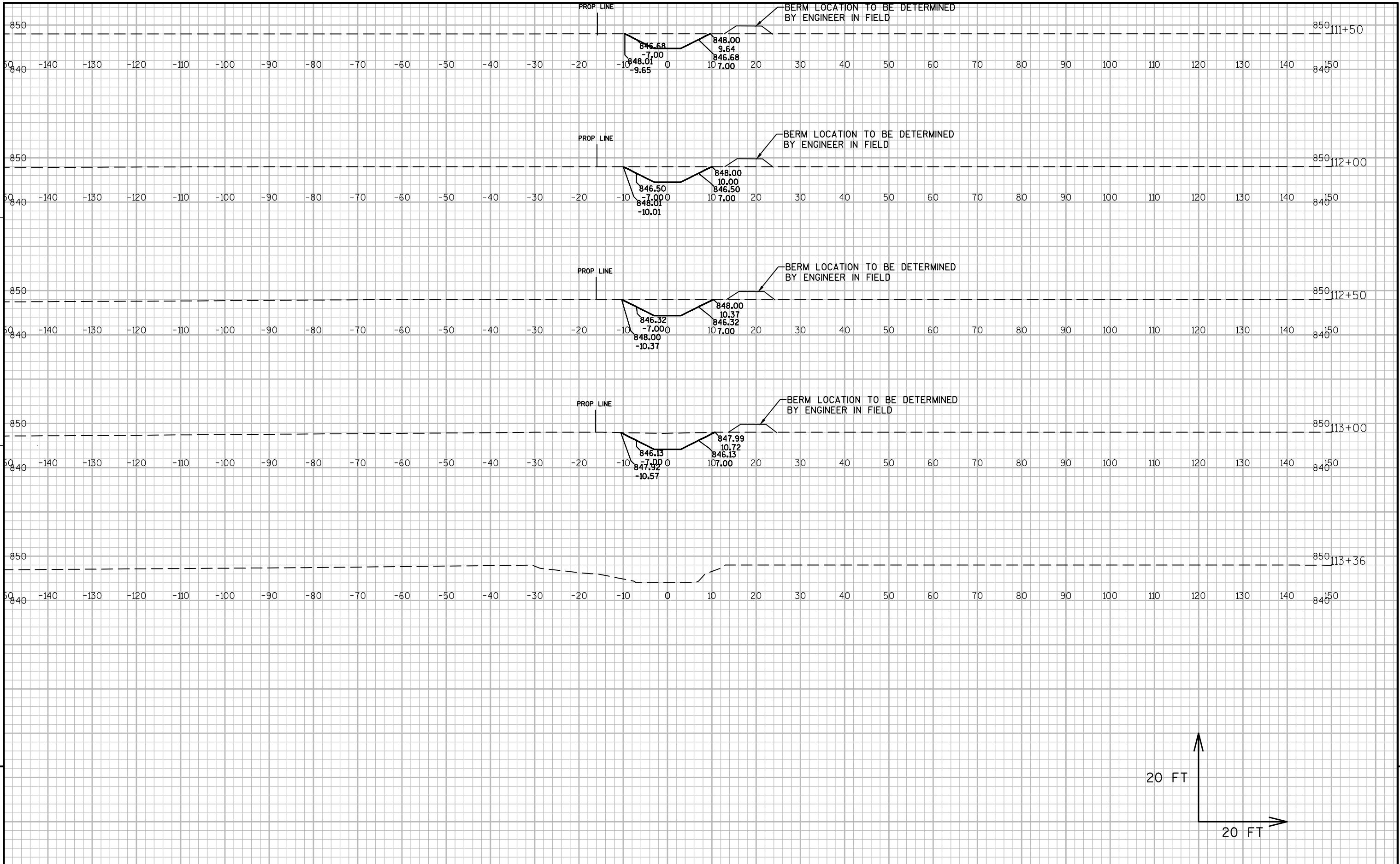












Notes



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