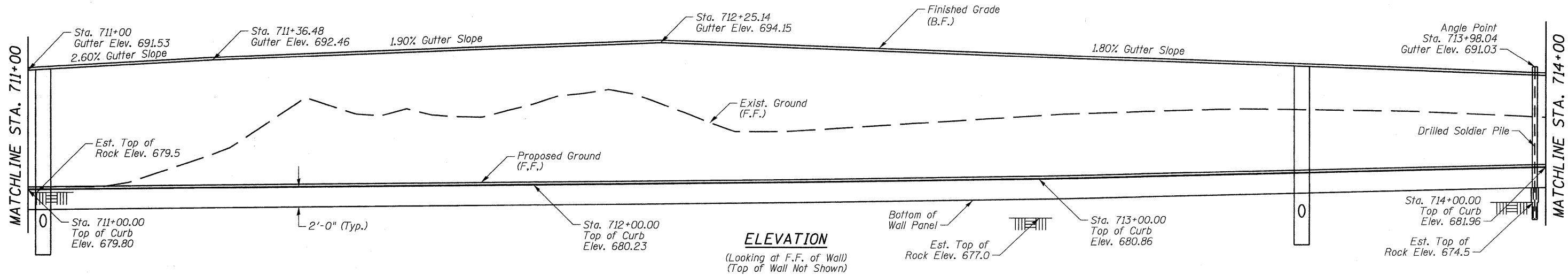


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* For top of wall elevation, pile section, spacing and tip elevation see sheets 6-8 of 13. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

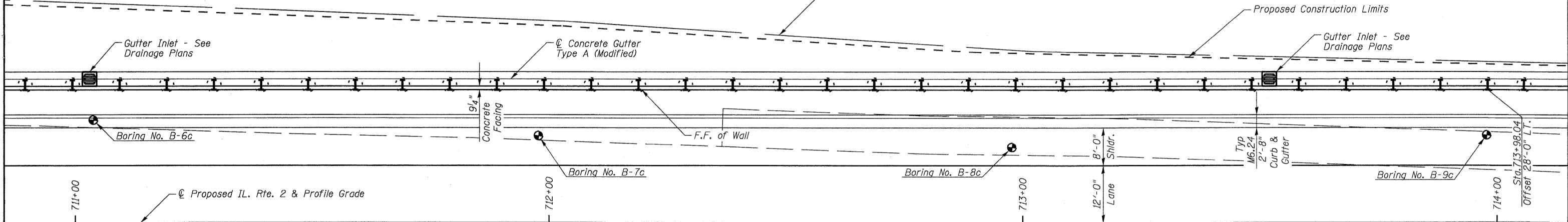
658'-8 1/4"



ELEVATION

(Looking at F.F. of Wall)
(Top of Wall Not Shown)

PLAN



DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

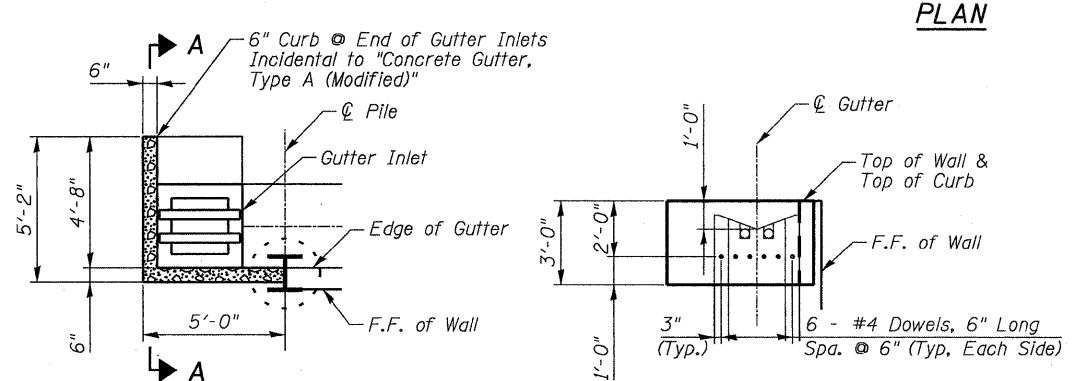
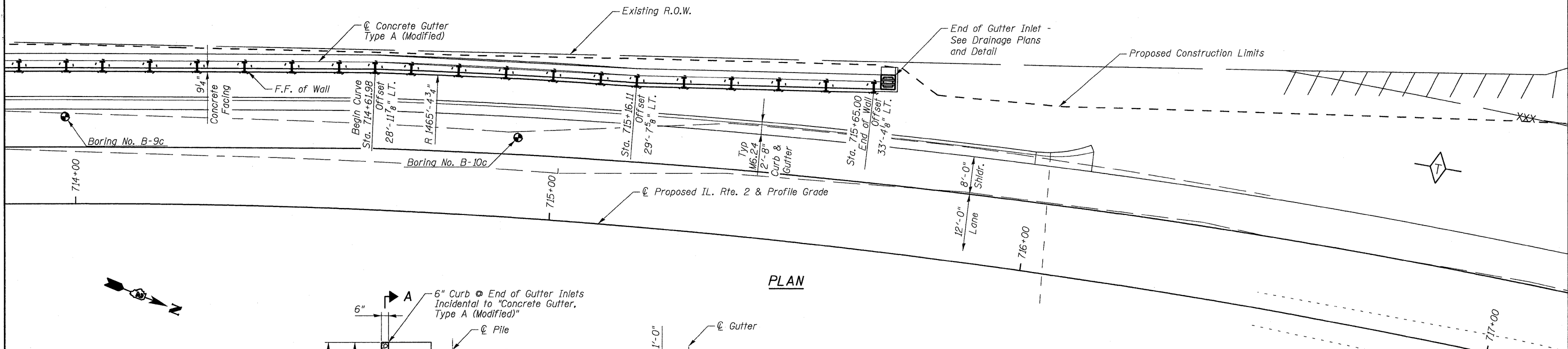
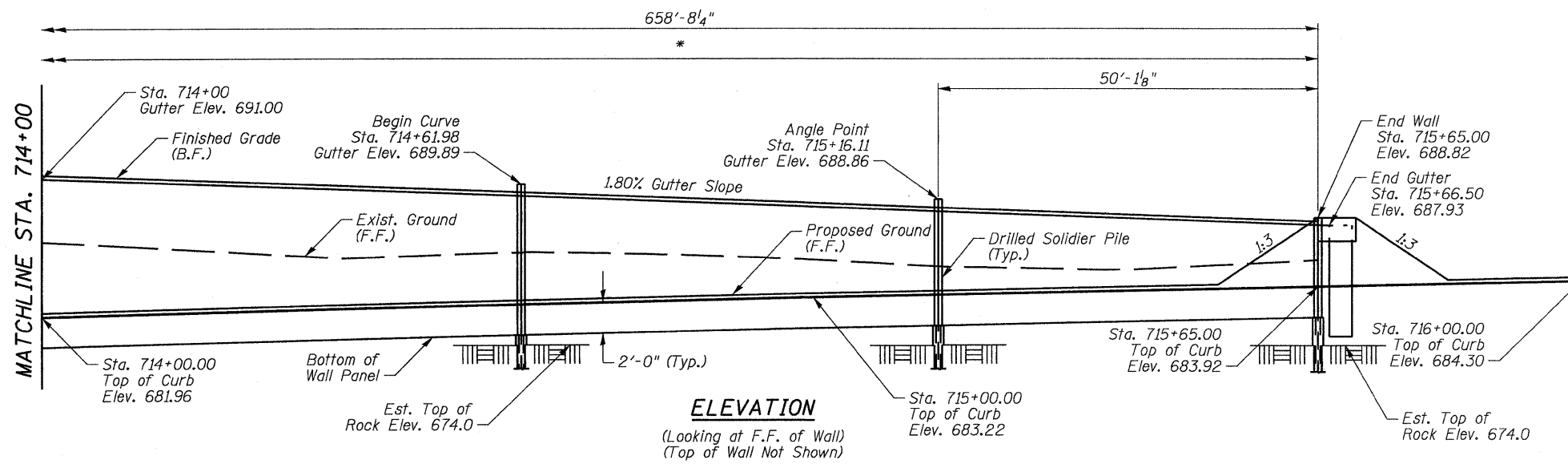
Howard R. Green Company

**GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7003**

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	201
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* For top of wall elevation, pile section, spacing and tip elevation see sheets 6-8 of 13. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7003

SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	202
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications & Supplements

DESIGN STRESSES

Precast Units
f_y = 60,000 psi
f'c = 5,000 psi (Precast)

Field Units
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (AASHTO M270 Gr. 50)

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	QTY.
Structure Excavation	Cu. Yd.	1,128
Name Plates	Each	1
Pipe Underdrains for Structures 4"	Foot	659
Concrete Gutter, Type A (Modified)	Foot	658.7
Furnishing Soldier Piles (W Section)	Foot	1,655
Geocomposite Wall Drain	Sq. Yd.	900
Drilling & Setting Soldier Piles (In Soil)	Cu. Ft.	1,503
Drilling & Setting Soldier Piles (In Rock)	Cu. Ft.	3,834
Retaining Wall (Special)	Sq. Ft.	8,881
Staining Concrete Structures	Sq. Yd.	800

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Concrete shall be painted in accordance with special provisions. The color shall be selected by the engineer.

Exposed steel wide flange/pile shall be painted with an inorganic zinc rich primer/acrylic/acrylic paint system for shop and field painting except for portions located more than 4 feet below the finished grade at the front face of the wall. The finished coat shall be only applied to the exposed surfaces of the steel piles after the concrete panels have been installed. The color of the final finish coat shall be approved by the Resident Engineer and Project Engineer. See special provisions for Cleaning and Painting New Metal Structures.

After placement of bottom precast panel, fill must be placed equally on both sides in order to continue construction of wall and place additional panels. Backfill at front face of wall must be at finished grade.

All form liners required for the precast concrete panels are included in the pay item. "Retaining Wall (Special)".

Method used for cutting piles to their final length shall result in a smooth and neat appearance. Jagged edges shall not be acceptable.

Installation of the name plate shall be in accordance with Highway Standard 515001-03 and Article 515 of the Standard Specifications. The location of the name plate to be determined by the Resident Engineer.

LEFT STATION 709+10 TO 715+65
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 742 SEC. 37R-4
STRUCTURE NO. 071-7003

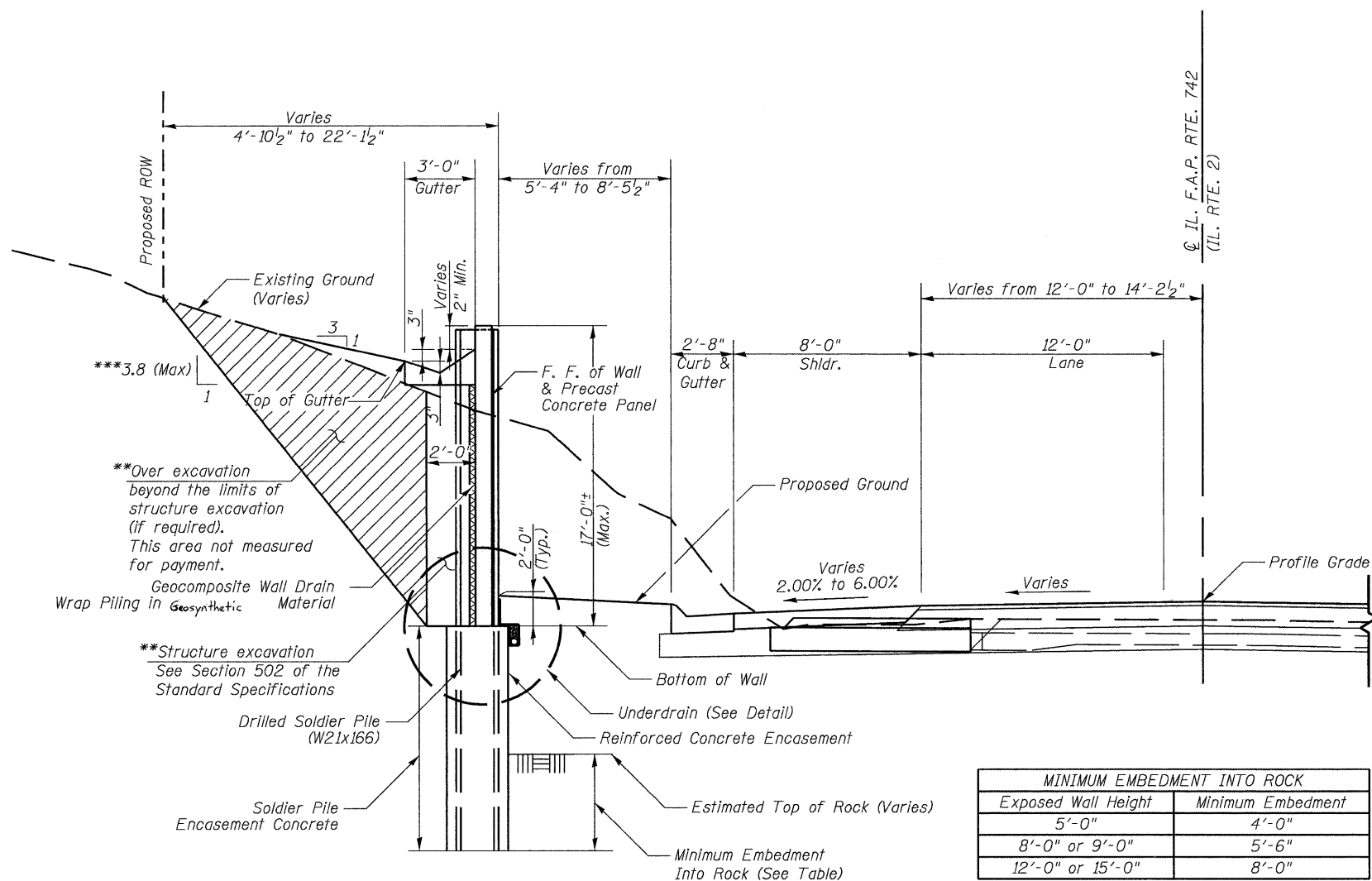
NAME PLATE
See Std. 515001

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

GENERAL NOTES & TOTAL BILL OF MATERIALS
STRUCTURE NO. 071-7003

SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13 SHEETS	742	37R-4	OGLE	867	203
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MINIMUM EMBEDMENT INTO ROCK	
Exposed Wall Height	Minimum Embedment
5'-0"	4'-0"
8'-0" or 9'-0"	5'-6"
12'-0" or 15'-0"	8'-0"

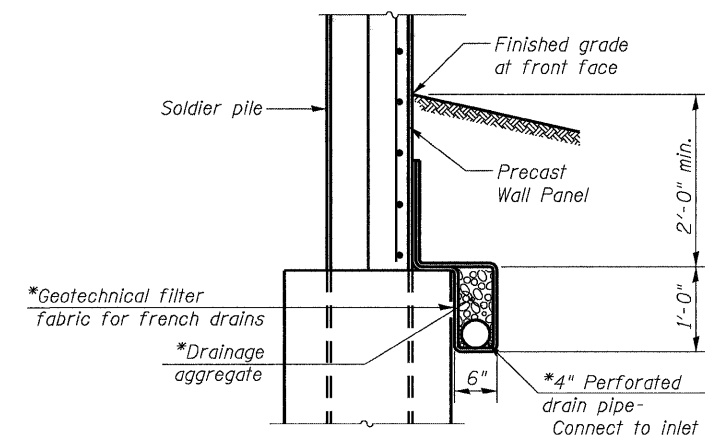
RETAINING WALL TYPICAL SECTION
STA. 709+10.00 TO STA. 715+65.00
(LOOKING NORTH)

* Included in the cost of pipe underdrains for structures.

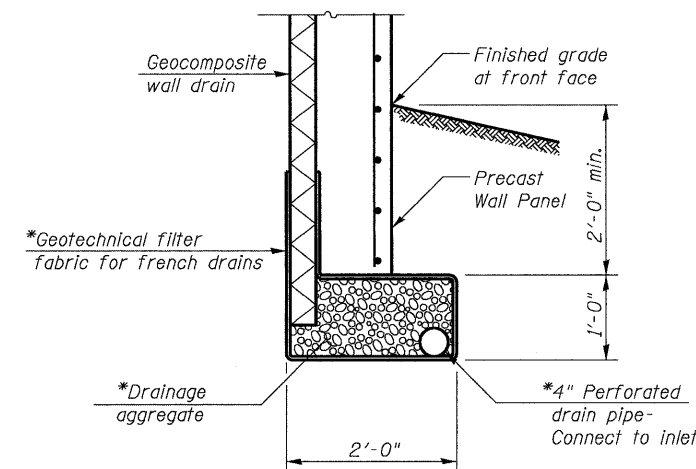
** Backfill remainder of structure excavation and over excavation with Granular Backfill. Cost included in Structure Excavation.

*** Weathered limestone should be present between Sta. 709+10 and approximately Sta. 714+00. If limestone is present, the slope of the over excavation may be steeper within these limits upon the approval of the Engineer.

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM



UNDERDRAIN DETAIL
AT SOLDIER PILES



UNDERDRAIN DETAIL
BETWEEN SOLDIER PILES

Note:

See sheets 6-8 of 13 for W21x166 location & spacing.

Precast panels will be finished with a uniform Ashlar Stone pattern with a horizontal break every 1'-0" vertically. See sheet 9 of 13.

DETAILS
STRUCTURE NO. 071-7003

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	3TR-4	OGLE	867	204
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

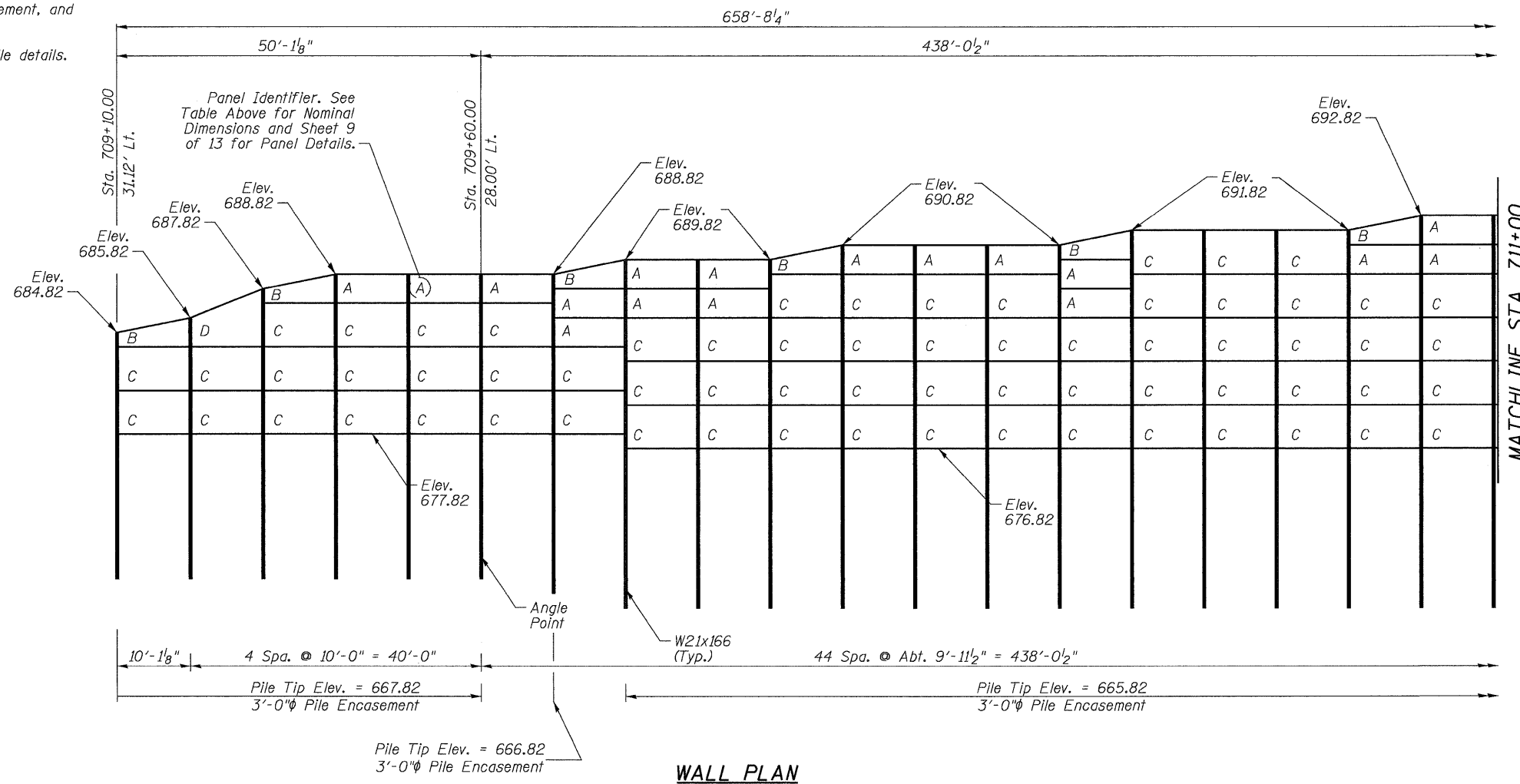
PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	17	340
B	1.5 x 10 (sloped)	6	90
C	3 x 10	66	1980
D	3 x 10 (sloped)	1	30
E	1.5 x 10 (sloped)	0	0
F	2 x 7.6	0	0
G	3 x 7.6	0	0
Sheet 6 Total		90	2440

For actual Panel sizes, Reinforcement, and Finish see sheet 9 of 13.

See sheet 10 of 13 for drilled pile details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

WALL PLAN
STRUCTURE NO. 071-7003

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	205
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

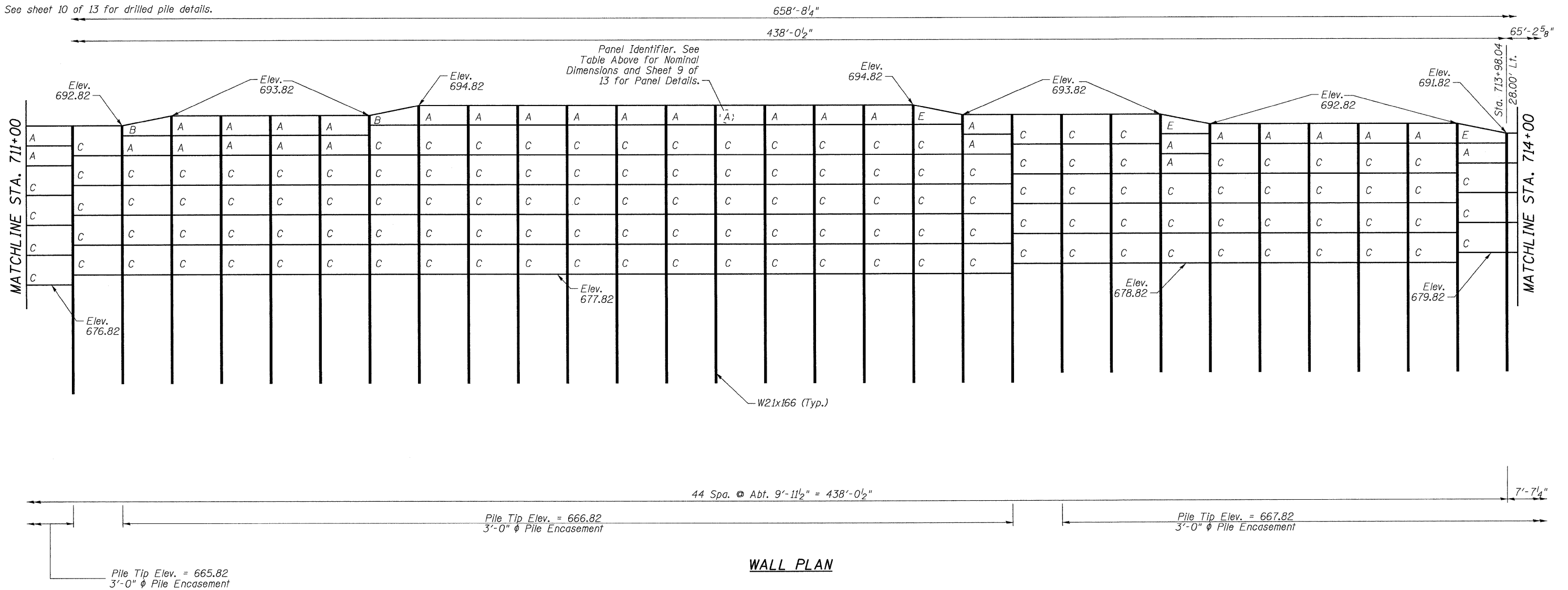
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	31	620
B	1.5 x 10 (sloped)	2	30
C	3 x 10 (sloped)	134	4020
D	3 x 10 (sloped)	0	0
E	1.5 x 10 (sloped)	3	45
F	2 x 7.6	0	0
G	3 x 7.6	0	0
Sheet 7 Total		170	4715

For actual Panel sizes, Reinforcement, and Finish see sheet 9 of 13.

See sheet 10 of 13 for drilled pile details.



WALL PLAN

WALL PLAN
STRUCTURE NO. 071-7003

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	206
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

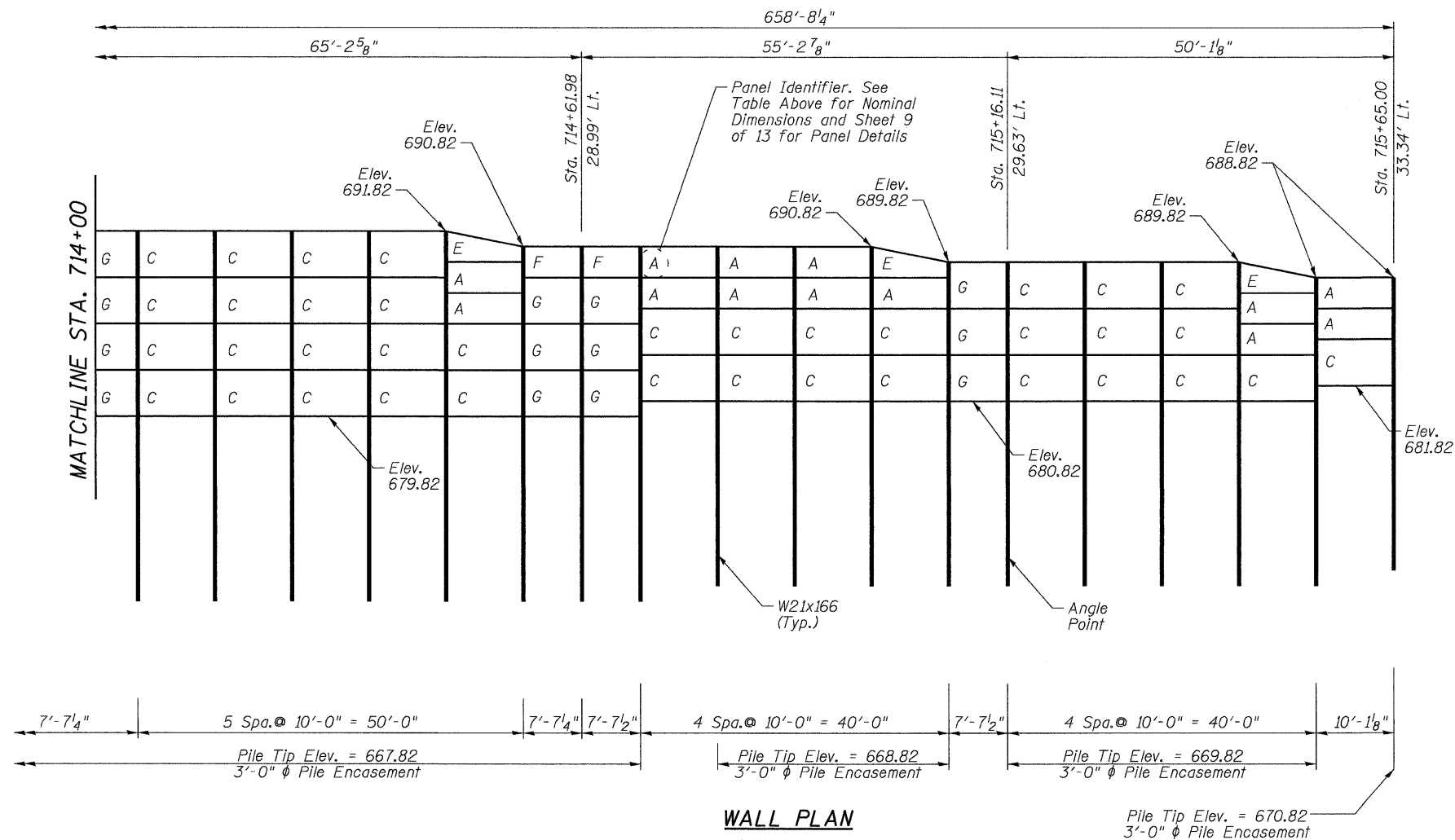
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	13	260
B	1.5 x 10 (sloped)	0	0
C	3 x 10	37	1110
D	3 x 10 (sloped)	0	0
E	1.5 x 10 (sloped)	3	45
F	2 x 7.6	2	15
G	3 x 7.6	13	296
Sheet 8 Total		68	1726

For actual Panel sizes, Reinforcement, and Finish see sheet 9 of 13.

See sheet 10 of 13 for drilled pile details.



WALL PLAN

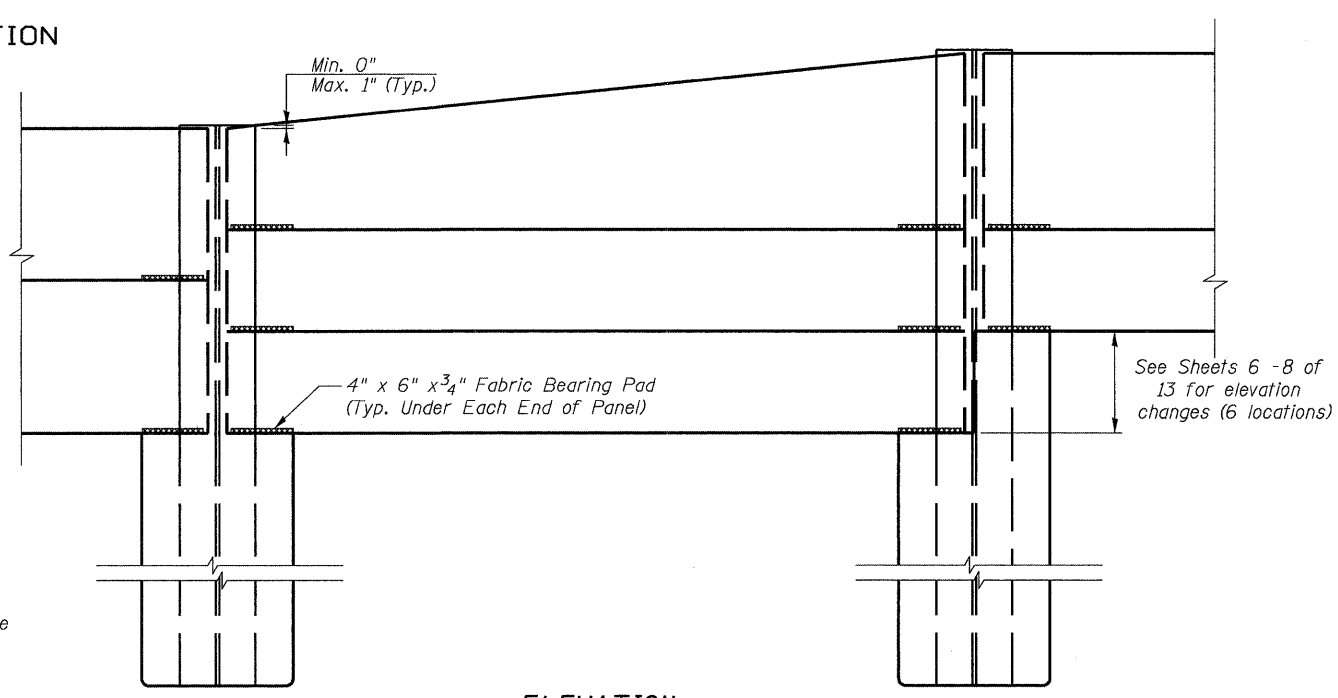
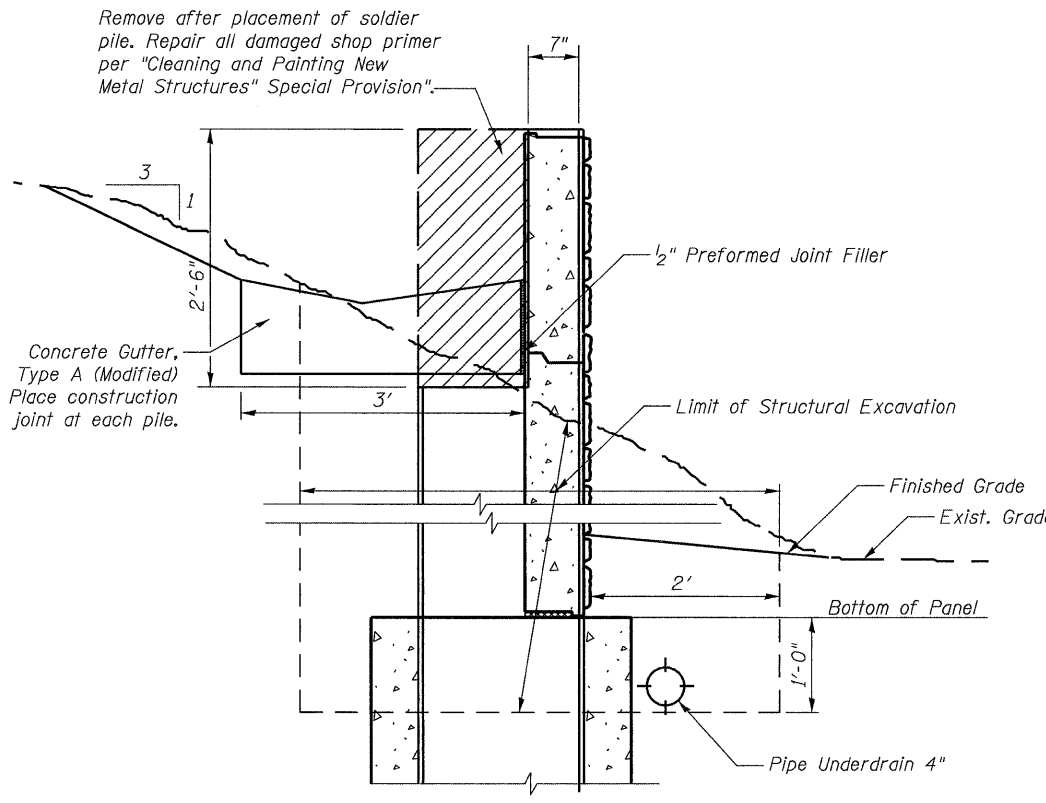
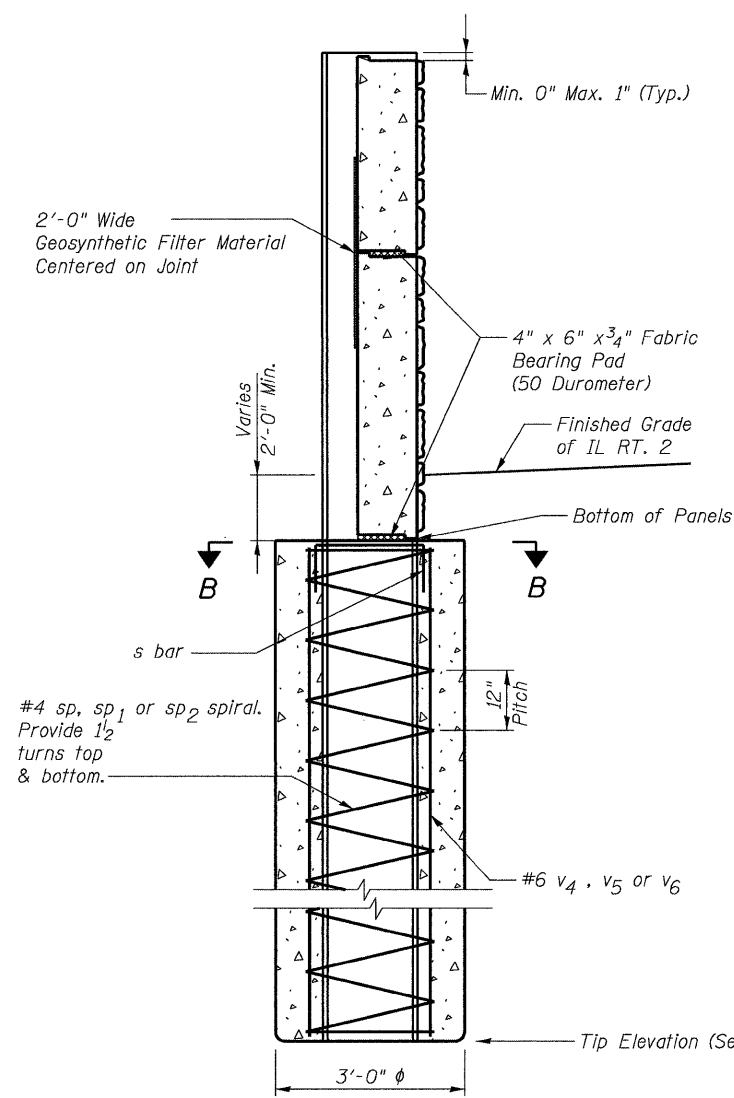
WALL PLAN
STRUCTURE NO. 071-7003

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	207
13 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

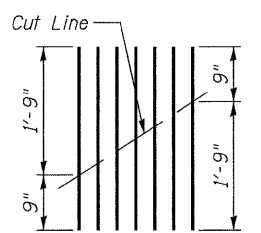


ELEVATION

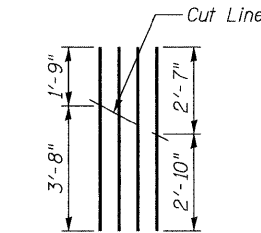
Reinforcement Quantities for information only.
All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".
Reinforcement & Concrete for panels and pile encasement are included in the pay items "Retaining Wall (Special)", "Drilling & Setting Soldier Piles (In Soil)" or "Drilling & Setting Soldier Piles (In Rock)".

BILL OF MATERIALS ***

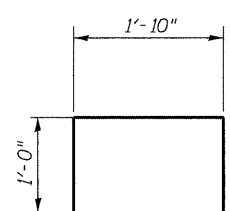
Bar	No.	Size	Length	Shape
V (E)	437	#4	1'-9"	—
V ₁ (E)	49	#4	2'-6"	—
V ₂ (E)	1724	#4	2'-9"	—
V ₃ (E)	4	#4	5'-5"	—
v ₄	72	#6	9'-6"	—
v ₅	588	#6	10'-6"	—
v ₆	156	#6	11'-6"	—
H (E)	460	#5	9'-6"	—
H ₁ (E)	1659	#7	9'-6"	—
H ₂ (E)	101	#4	7'-1"	—
** sp	6	#4	9'-6"	⌘
** sp ₁	49	#4	10'-6"	⌘
** sp ₂	13	#4	11'-6"	⌘
s	134	#4	3'-10"	⌘
Reinforcement Bars, Epoxy Coated	Pounds		41,030	
Reinforcement Bars	Pounds		18,240	
Concrete Structures	Cu. Yd.		245.7	



V₁ (E) BARS

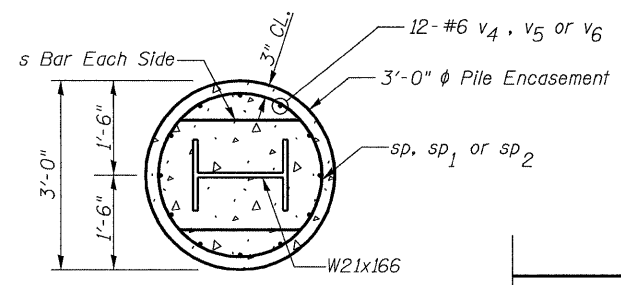


V₃ (E) BARS

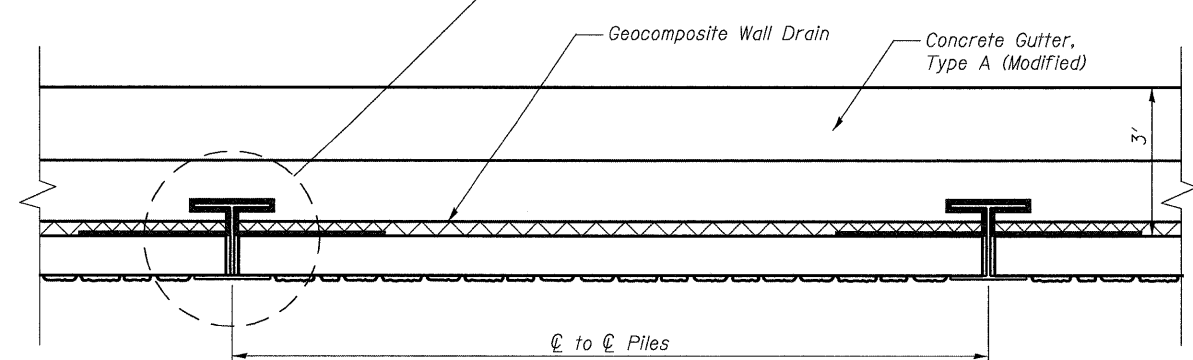
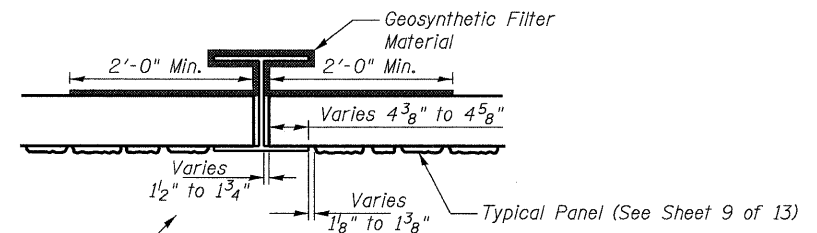


s BARS

SECTION THROUGH PILE



SECTION B-B



PLAN

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

**WALL DETAILS
STRUCTURE NO. 071-7003**

SHEET NO. 10 13 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 209
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

**Length is height for spiral.
*** For information only.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2, from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28NW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. <u>B-6c</u>					Groundwater Elev.:				
Station <u>710+00</u>					First Encounter <u>672.4</u> ft				
Offset <u>14.00ft Lt CL</u>					Upon Completion <u>672.4</u> ft				
Ground Surface Elev. <u>679.40</u> ft	(ft)	(/6")	(tsf)	(%)	After <u> </u> Hrs.	(ft)	(/6")	(tsf)	(%)
MEDIUM brown SILTY CLAY LOAM			0.6	17.0					
			P						
					657.90				
MEDIUM tan weathered LIMESTONE		5			Time: 19 minutes				
		5			GOOD tan LIMESTONE				
		8			100% Recovery				
					29" RQD				
DENSE tan weathered LIMESTONE		19							
		14							
		18							
DENSE tan weathered LIMESTONE		24			End of Boring				
		19							
		19							
VERY DENSE tan weathered LIMESTONE		55							
		37							
		23							
DENSE tan weathered LIMESTONE		21							
		16							
		18							
VERY DENSE tan weathered LIMESTONE		35							
		100/8							
Auger Refusal at 16.5'									
Box #9									
POOR tan LIMESTONE									
70% Recovery									
Time: 25 minutes									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2 from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. <u>B-6c</u>					Groundwater Elev.:				
Station <u>711+08</u>					First Encounter <u>672.4</u> ft				
Offset <u>14.00ft Lt CL</u>					Upon Completion <u>672.4</u> ft				
Ground Surface Elev. <u>679.40</u> ft	(ft)	(/6")	(tsf)	(%)	After <u> </u> Hrs.	(ft)	(/6")	(tsf)	(%)
Shoulder Rock									
					677.40				
VERY DENSE tan weathered LIMESTONE		18							
		33							
		33							
MEDIUM tan weathered LIMESTONE		18							
		11							
		12							
VERY DENSE tan weathered LIMESTONE		9							
		23							
		49							
VERY DENSE tan weathered LIMESTONE		100/6							
Auger Refusal - 89.1									
					668.40				
End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

DESIGNED <u>JMW</u>
CHECKED <u>DFM</u>
DRAWN <u>CTH</u>
CHECKED <u>DFM</u>

BORING LOGS
STRUCTURE NO. 071-7003

SHEET NO. 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13 SHEETS	742	37R-4	OGLE	867	210
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2 from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28NW, SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft
BORING NO. <u>B-7c</u> Station <u>712+00</u> Offset <u>13.00ft LI CL</u> Ground Surface Elev. <u>678.70</u> ft	(ft)	(blows)	(tsf)	(%)	
Shoulder Rock					
VERY DENSE tan weathered LIMESTONE Auger Refusal	677.70	100/1			
End of Boring	676.20				
	-5				
	-10				
	-15				
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2 from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28NW, SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft
BORING NO. <u>B-8c</u> Station <u>713+00</u> Offset <u>13.00ft LI CL</u> Ground Surface Elev. <u>680.20</u> ft	(ft)	(blows)	(tsf)	(%)	
12" Asphalt					
SOFT tan LOAM with LIMESTONE fragments	678.20	5	0.4	17.0	
	676.70	8	P		
VERY DENSE tan weathered LIMESTONE Auger Refusal	674.20	29	100/8		
End of Boring					
	-5				
	-10				
	-15				
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED <u>JMW</u>
CHECKED <u>DFM</u>
DRAWN <u>CTH</u>
CHECKED <u>DFM</u>

Howard R. Green Company

BORING LOGS
STRUCTURE NO. 071-7003

SHEET NO. 12	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 211
13 SHEETS	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2 from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	B	L	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	H	S	W	Qu	S	ft	ft	ft	ft	ft	ft
	(ft)	(/6")	(tsf)	(%)							
8" Asphalt											
SOFT brown LOAM with ROCK	678.40	2									
		5	0.4	12.0							
	676.90	14	P								
VERY STIFF tan LOAM with ROCK		4									
		5	2.1	21.0							
	673.90	9	P								
LOOSE tan weathered LIMESTONE		4									
		5									
	671.90	5									
VERY DENSE tan weathered LIMESTONE		10									
Auger Refusal - 88.5	669.40	51									
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall along Route 2 from a point 950' S. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28NW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	B	L	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	H	S	W	Qu	S	ft	ft	ft	ft	ft	ft
	(ft)	(/6")	(tsf)	(%)							
18" Asphalt Shoulder											
SOFT tan SILTY LOAM	680.30	2									
		2	0.2	25.0							
	678.80	3	P								
MEDIUM tan LOAM with LIMESTONE fragments		4									
		5	0.5	18.0							
	676.30	5	P								
MEDIUM tan SILTY LOAM with weathered LIMESTONE		4									
		8	0.6	24.0							
	673.80	6	P								
SOFT tan weathered LIMESTONE with LOAM lens		5									
		6	0.4	20.0							
	670.80	5	P								
DENSE tan weathered LIMESTONE		6									
		21									
	668.80	15									
VERY DENSE tan weathered LIMESTONE		100/5'									
	666.30										
VERY DENSE tan weathered LIMESTONE		100/2'									
Auger Refusal	663.80										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

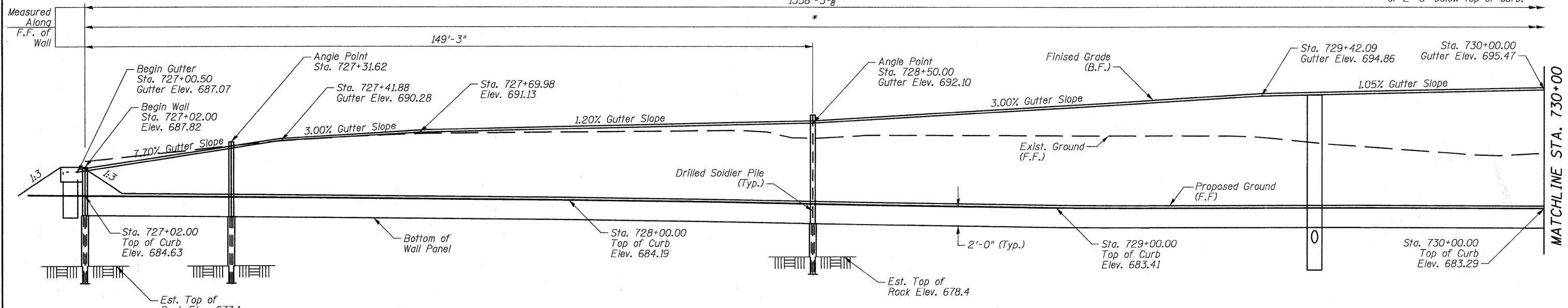
BORING LOGS
STRUCTURE NO. 071-7003

SHEET NO. 13	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13 SHEETS	742	37R-4	OGLE	867	212
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

Benchmark: Guardrail Post, Existing Sta. 738+22.23, 18.81' Rt.,
 Proposed Sta. 738+19.60, 23.70' Rt. Elev. 684.84
 Existing Structure: None

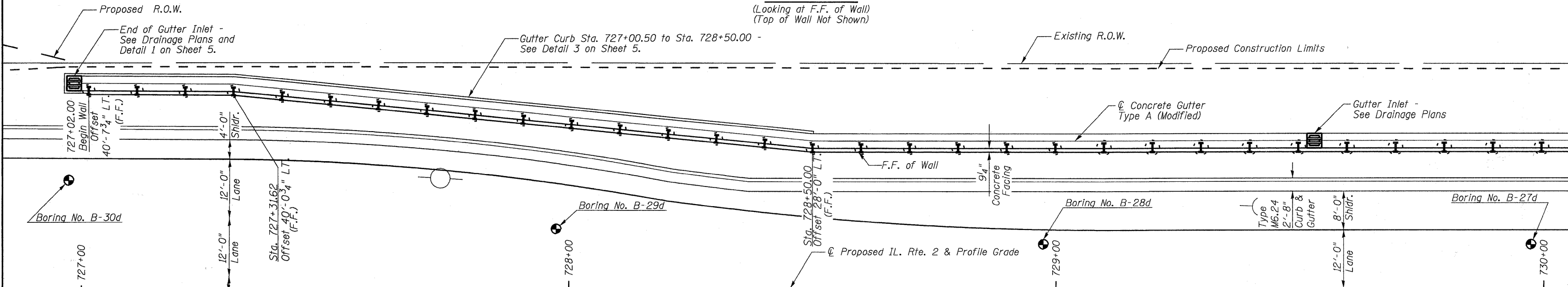
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 1358'-3 5/8"

* For top of wall elevation, pile section, spacing and tip elevation see sheets 8-12 of 23. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



ELEVATION

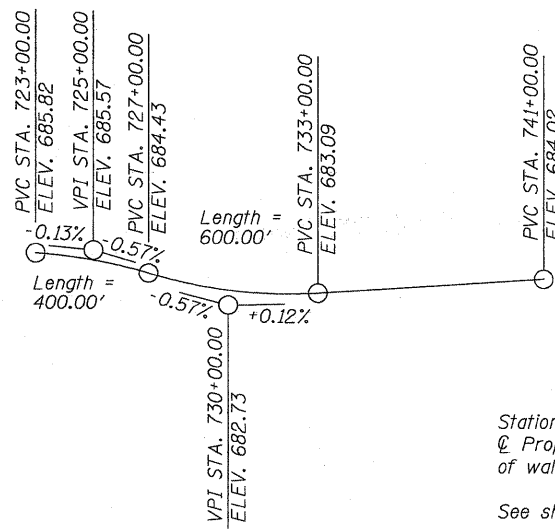
(Looking at F.F. of Wall)
 (Top of Wall Not Shown)



PLAN

CURVE DATA
 (IL. Rte. 2)

P.I. STA= 727+71.83 Δ= 0° 43' 39" (RT.) D= 0° 42' 58" R= 8,000.00' T= 50.80' L= 101.59' E= 0.16'P.C. STA= 727+21.03 P.T. STA= 728+22.62	P.I. STA= 745+42.65 Δ= 14° 33' 39" (RT.) D= 1° 02' 15" R= 5,523.11' T= 705.61' L= 1,403.62' E= 44.89' P.C. STA= 738+37.03 P.T. STA= 752+40.66
--------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------



PROFILE GRADE
 (Along Proposed IL. Rte. 2)

SHEET INDEX

NO.	DESCRIPTION
1-5	GENERAL PLAN
6	GENERAL NOTES & TOTAL BILL OF MATERIALS
7	WALL SECTION
8-12	WALL PLAN
13	PANEL DETAILS
14	WALL DETAILS
15-23	BORING LOGS

NOTES

Stations and offsets are given from the Proposed IL. Rte. 2 at the front face of wall unless otherwise noted.

See sheet 6 of 23 for Bill of Materials.

F.F. = Front Face
 B.F. = Back Face

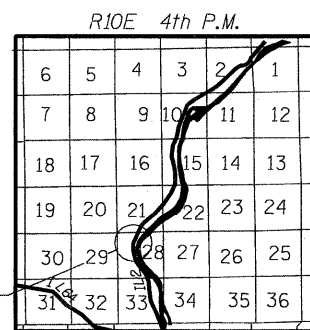


David F. Maxwell, S.E.
 Date: 3/17/10
 My registration expires November 30, 2010.
 Reg. No. 081-005455

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
IL. RTE. 2
FAP 742 SECTION 37R-4
OGLE COUNTY
RETAINING WALL E
STA. 727+02.00 TO STA. 740+58.00
STRUCTURE NO. 071-7004



LOCATION SKETCH

DESIGNED JMW
CHECKED DFM
DRAWN CTH
CHECKED DFM

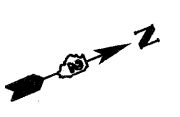
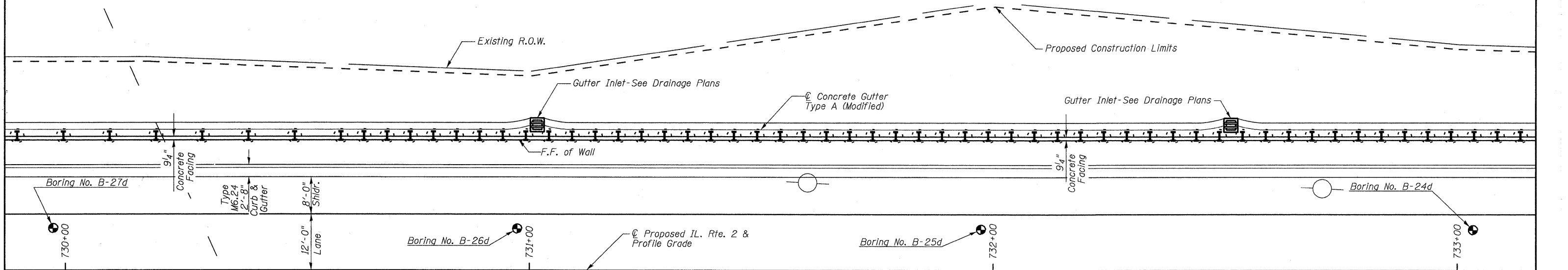
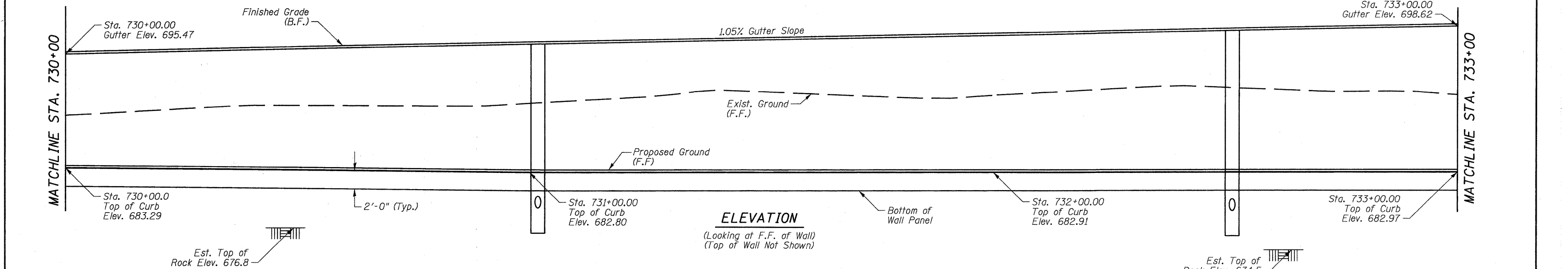
SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	213
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

Howard R. Green Company

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1358'-3 5/8"

* For top of wall elevation, pile section, spacing and lip elevation see sheets 8-12 of 23. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

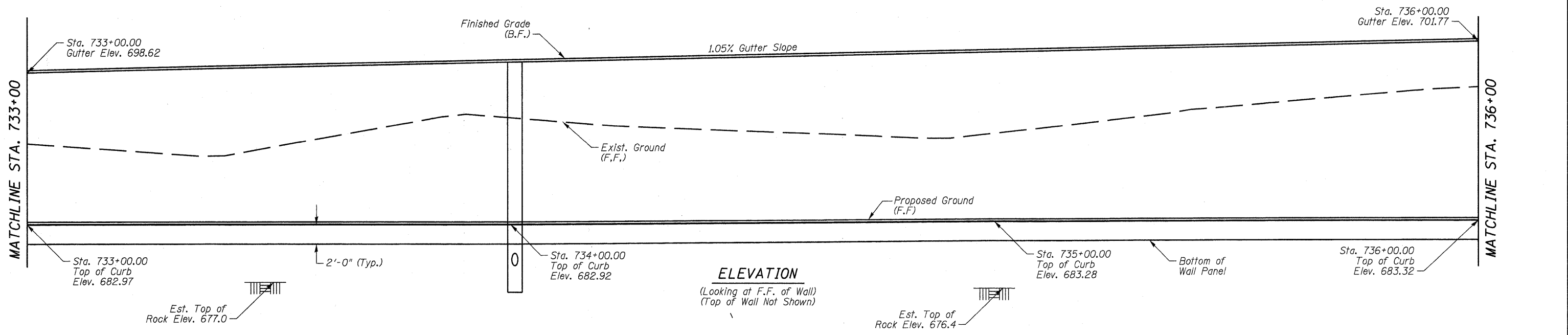
GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7004

SHEET NO. 2 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	214
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

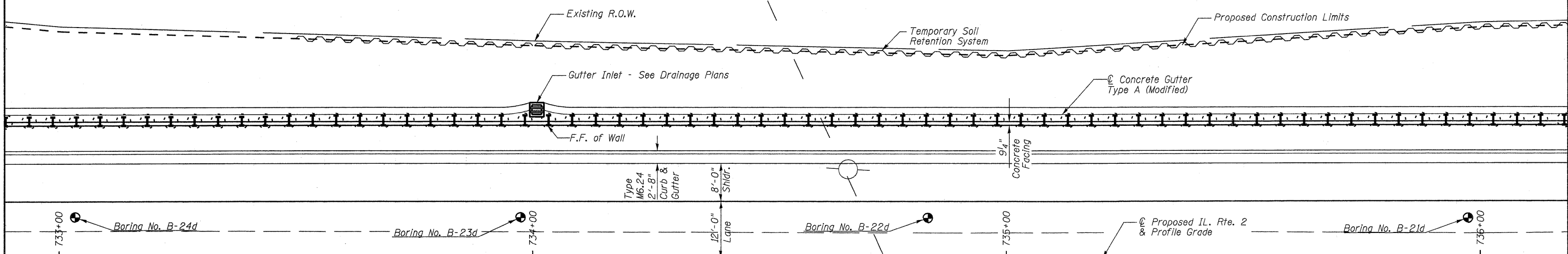
1358'-3 5/8"

* For top of wall elevation, pile section, spacing and tip elevation see sheets 8-12 of 23. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



ELEVATION

(Looking at F.F. of Wall)
(Top of Wall Not Shown)



PLAN

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

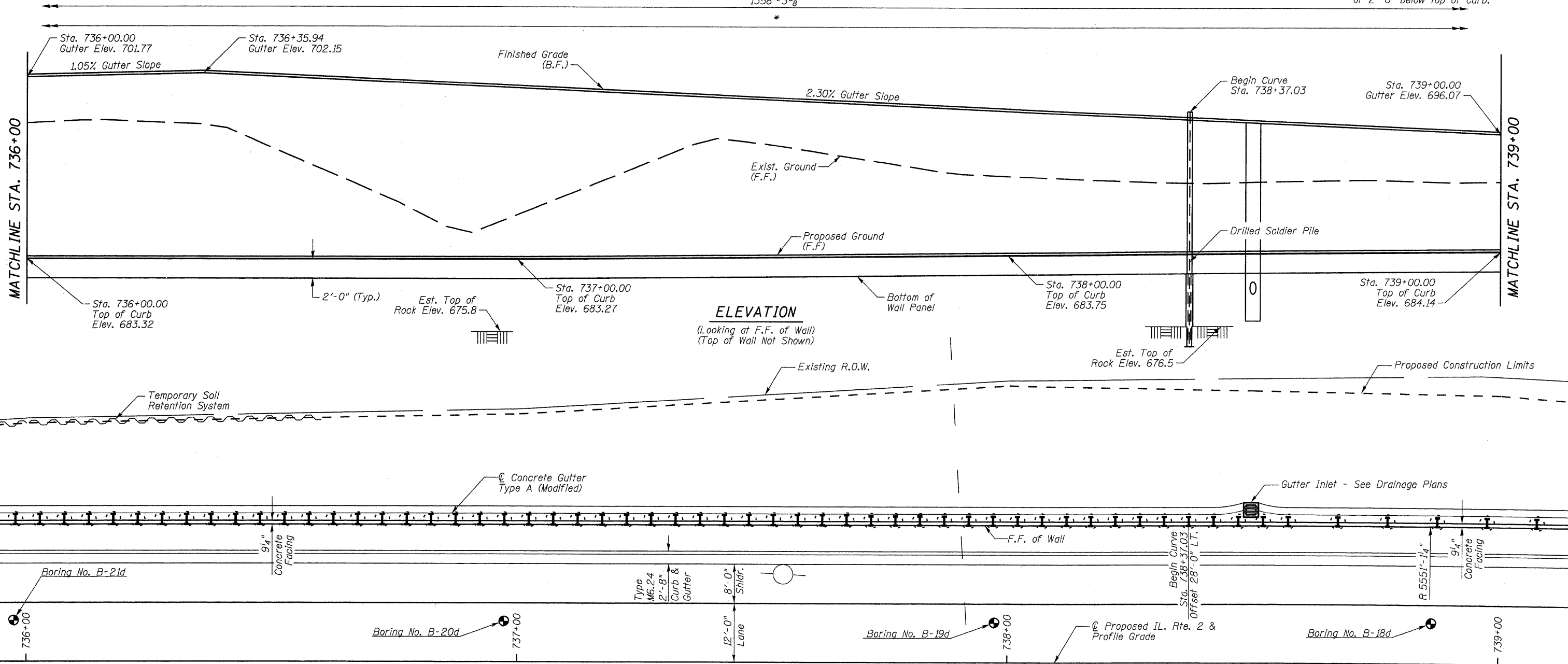
**GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7004**

SHEET NO. 3 23 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 215
	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1358'-3 5/8"

* For top of wall elevation, pile section, spacing and tip elevation see sheets 8-12 of 23. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

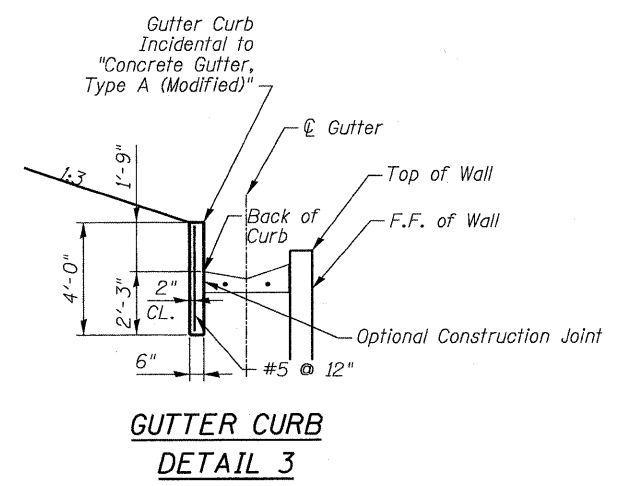
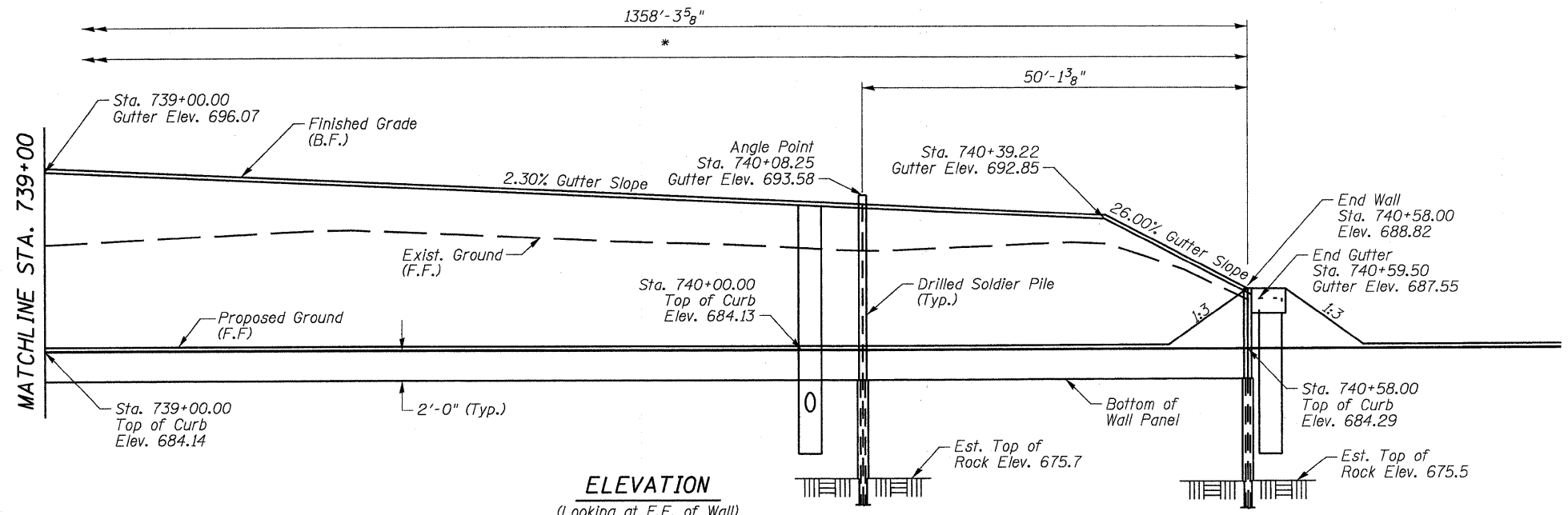
Howard R. Green Company

GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7004

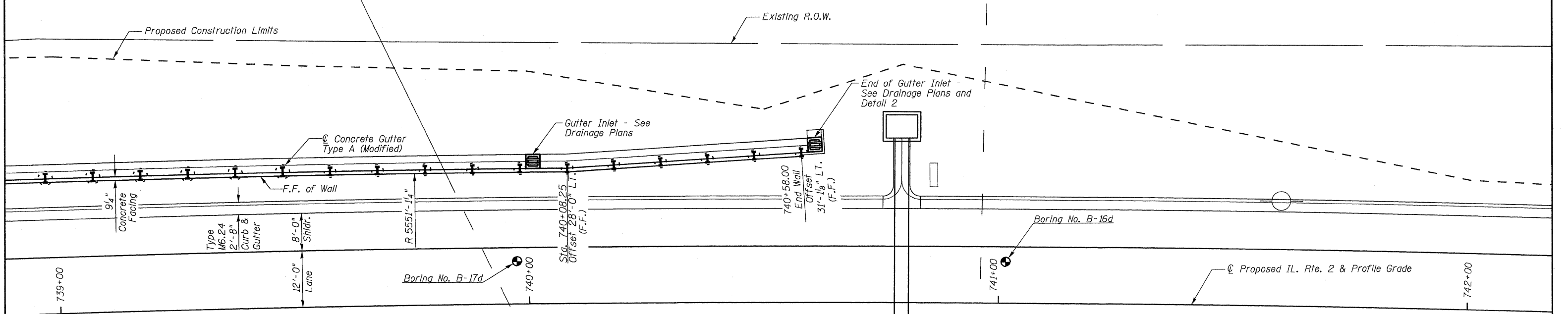
SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	216
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

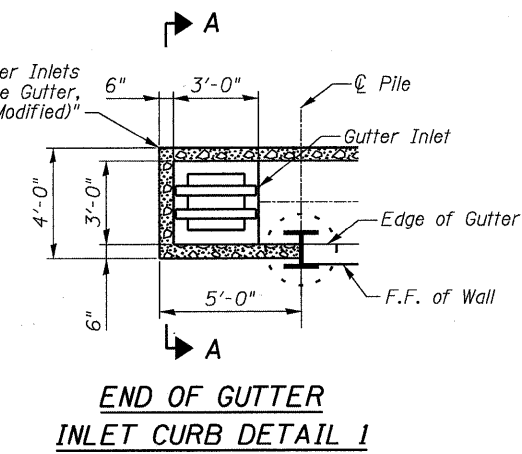
* For top of wall elevation, pile section, spacing and tip elevation see sheets B-12 of 23. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



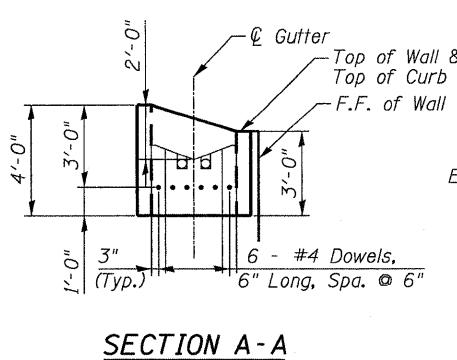
ELEVATION
(Looking at F.F. of Wall)
(Top of Wall Not Shown)



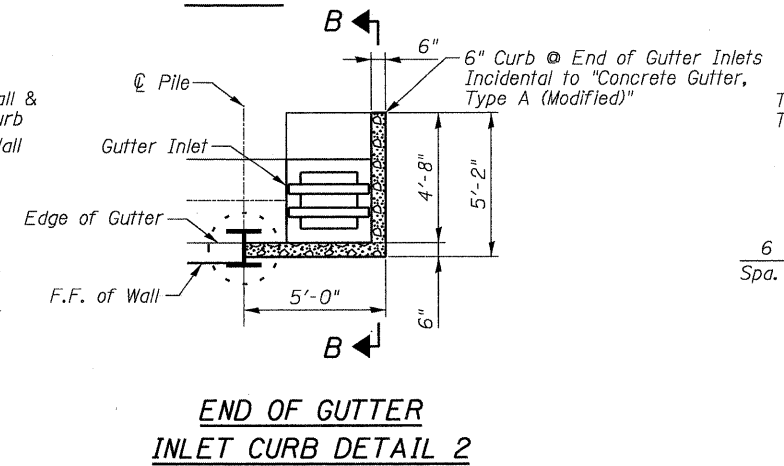
PLAN



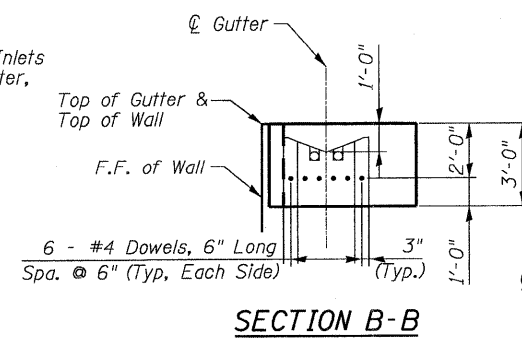
**END OF GUTTER
INLET CURB DETAIL 1**



SECTION A-A



**END OF GUTTER
INLET CURB DETAIL 2**



SECTION B-B

**GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7004**

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 5 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	217
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications & Supplements

DESIGN STRESSES

Precast Units
fy = 60,000 psi
f'c = 5,000 psi (Precast)

Field Units
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Gr. 50)

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	QTY.
Structure Excavation	Cu. Yd.	3,478
Name Plates	Each	1
Pipe Underdrains for Structures 4"	Foot	1,359
Concrete Gutter, Type A (Modified)	Foot	1,359
Furnishing Soldier Piles (W Section)	Foot	6,501
Geocomposite Wall Drain	Sq. Yd.	2,358
Temporary Soil Retention System	Sq. Ft.	4,645
Drilling & Setting Soldier Piles (In Soil)	Cu. Ft.	6,156
Drilling & Setting Soldier Piles (In Rock)	Cu. Ft.	12,436
Retaining Wall (Special)	Sq. Ft.	22,994
Staining Concrete Structures	Sq. Yd.	2,196

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Concrete shall be painted in accordance with special provisions. The color shall be selected by the engineer.

Exposed steel wide flange/pile shall be painted with an inorganic zinc rich primer/acrylic/acrylic paint system for shop and field painting except for portions located more than 4 feet below the finished grade at the front face of the wall. The finished coat shall be only applied to the exposed surfaces of the steel piles after the concrete panels have been installed. The color of the final finish coat shall be approved by the Resident Engineer and Project Engineer. See special provisions for Cleaning and Painting New Metal Structures.

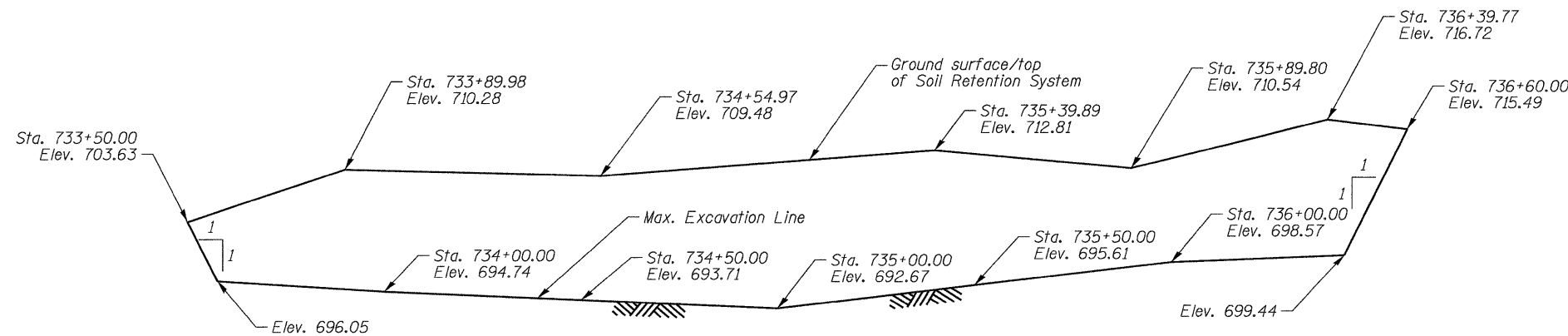
After placement of bottom precast panel, fill must be placed equally on both sides in order to continue construction of wall and place additional panels. Backfill at front face of wall must be at finished grade.

All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".

Installation of the name plate shall be in accordance with Highway Standard 515001-03 and Article 515 of the Standard Specifications. The location of the name plate to be determined by the Resident Engineer.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Method used for cutting piles to their final length shall result in a smooth and neat appearance. Jagged edges shall not be acceptable.



LEFT STATION 727+02 TO 740+58
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 742 SEC. 37R-4
STRUCTURE NO. 071-7004

NAME PLATE
See Std. 515001

TEMPORARY SOIL RETENTION SYSTEM DETAIL

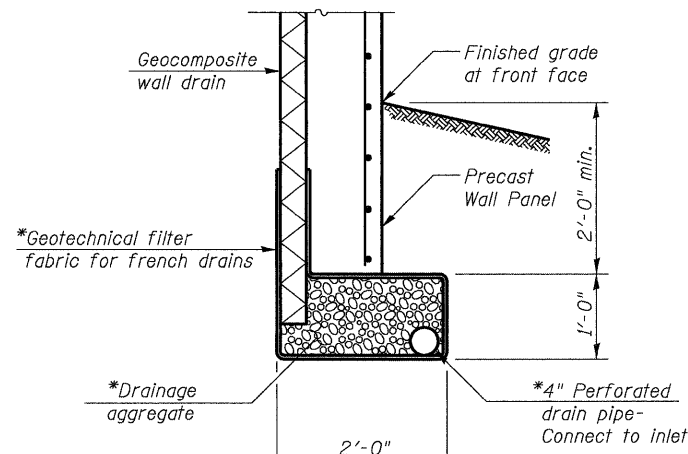
**GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7004**

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

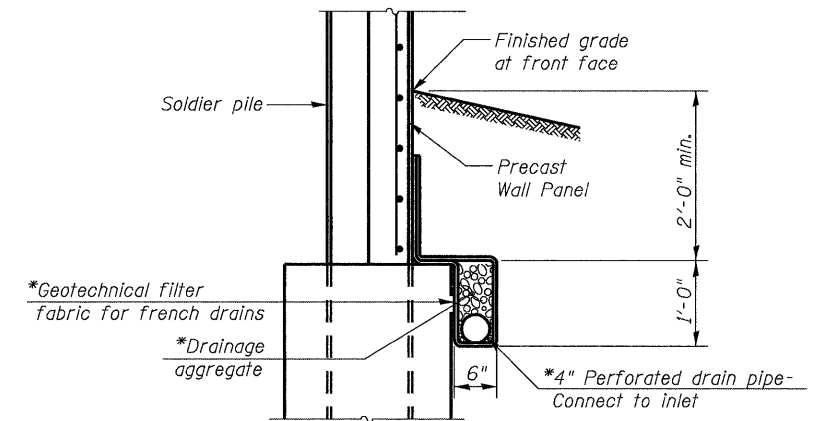
Howard R. Green Company

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	218
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

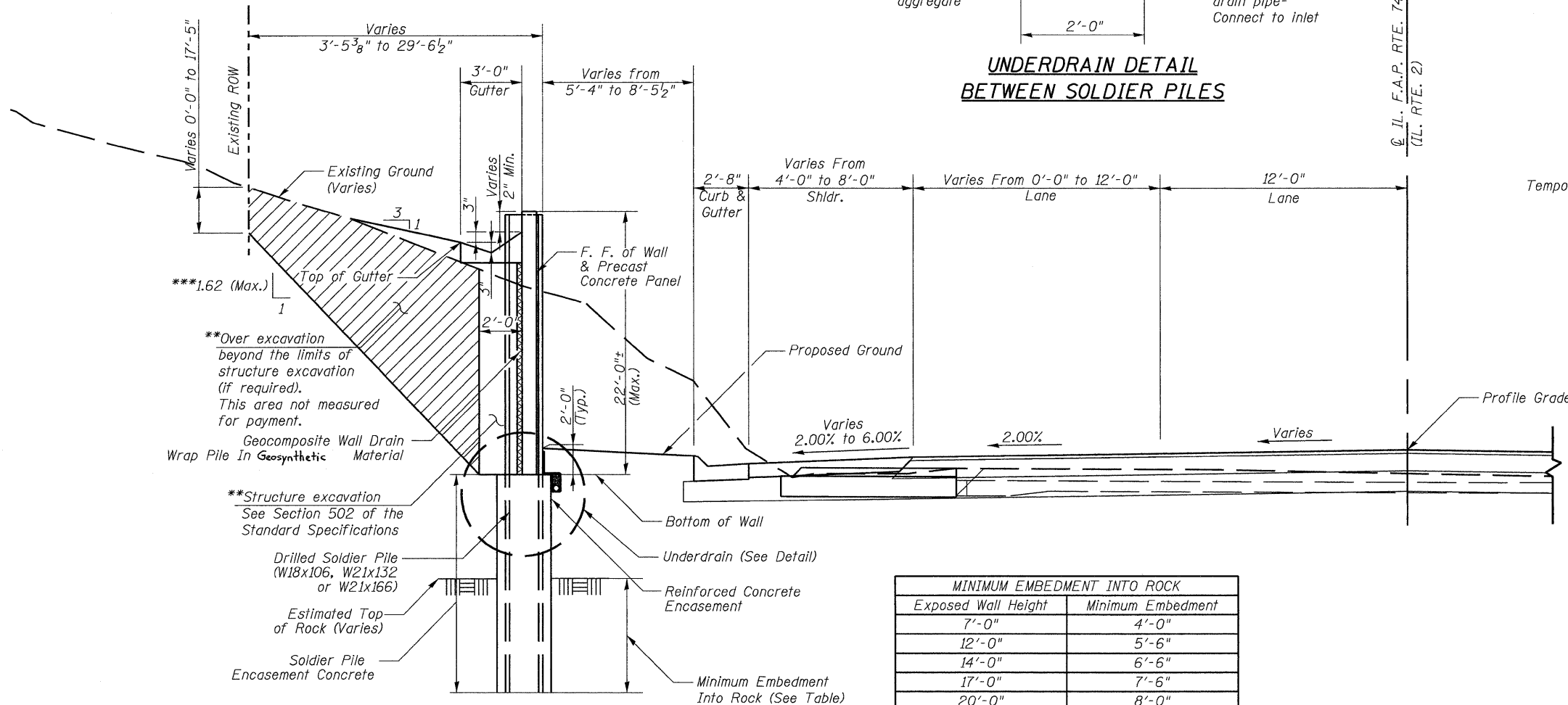
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



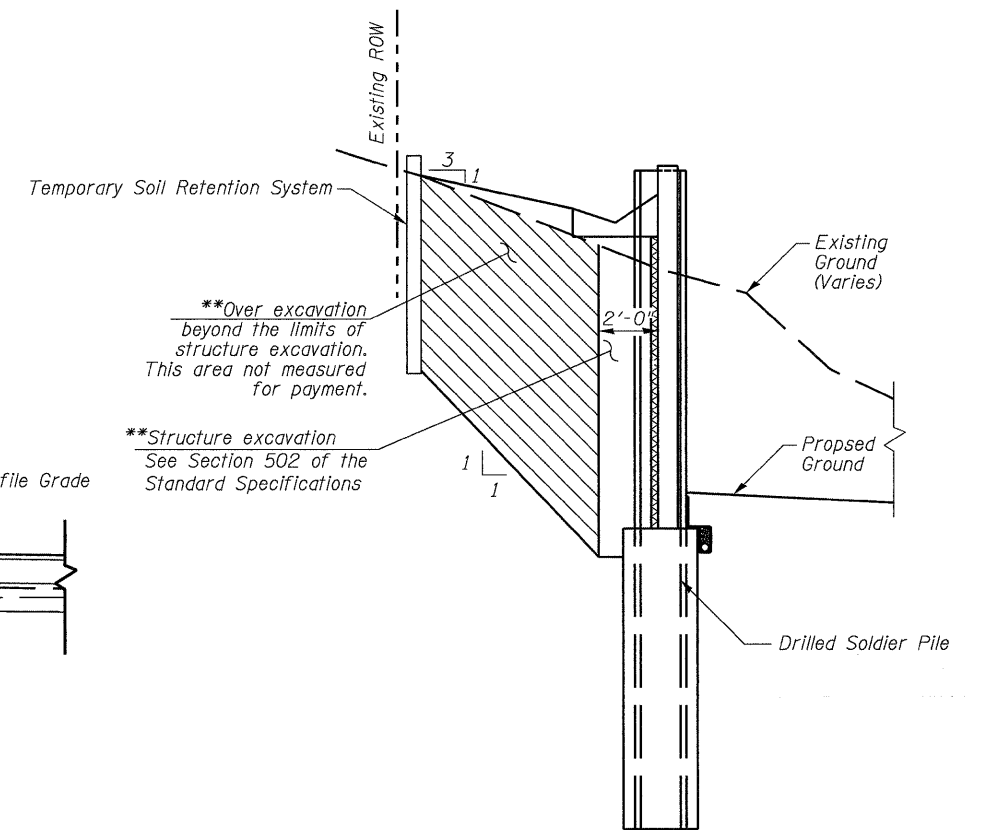
**UNDERDRAIN DETAIL
BETWEEN SOLDIER PILES**



**UNDERDRAIN DETAIL
AT SOLDIER PILES**



**RETAINING WALL TYPICAL SECTION
STA. 727+02.00 TO STA. 740+58.00
(LOOKING NORTH)**



**RETAINING WALL SECTION
WITH TEMPORARY SOIL RETENTION SYSTEM**

Sta. 733+50.00 to Sta. 736+60.00
(Looking North)

**DETAILS
STRUCTURE NO. 071-7004**

* Included in the cost of pipe underdrains for structures.

** Backfill remainder of structure excavation and over excavation with Granular Backfill. Cost included in structure excavation.

*** Use 1:1 slope with Temporary Soil Retention System. Slope of over excavation outside limits of Temporary Soil Retention System cannot exceed limit shown.

Note:
See sheets 8-12 of 23 for pile type, location & spacing.

Precast panels will be finished with a uniform Ashlar Stone pattern with a horizontal break every 1'-0" vertically. See sheet 13 of 23.

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

SHEET NO. 7 23 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 219
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

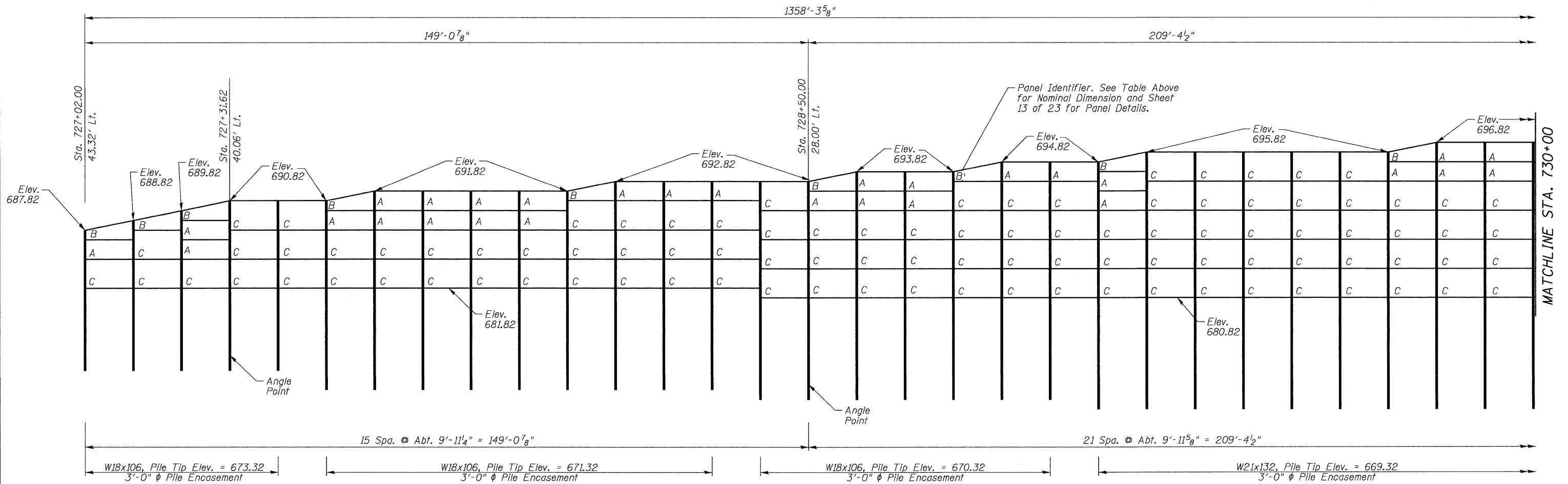
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	29	580
B	1.5 x 10 (sloped)	9	135
C	3 x 10	97	2910
D	3 x 5	0	0
E	2 x 5	0	0
F	1.5 x 5 (sloped)	0	0
G	1.5 x 5 (sloped)	0	0
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Total		135	3625

For actual Panel sizes, Reinforcement, and Finish see sheet 13 of 23.

See sheet 14 of 23 for drilled pile details.



WALL PLAN

WALL PLAN
STRUCTURE NO. 071-7004

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	220
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

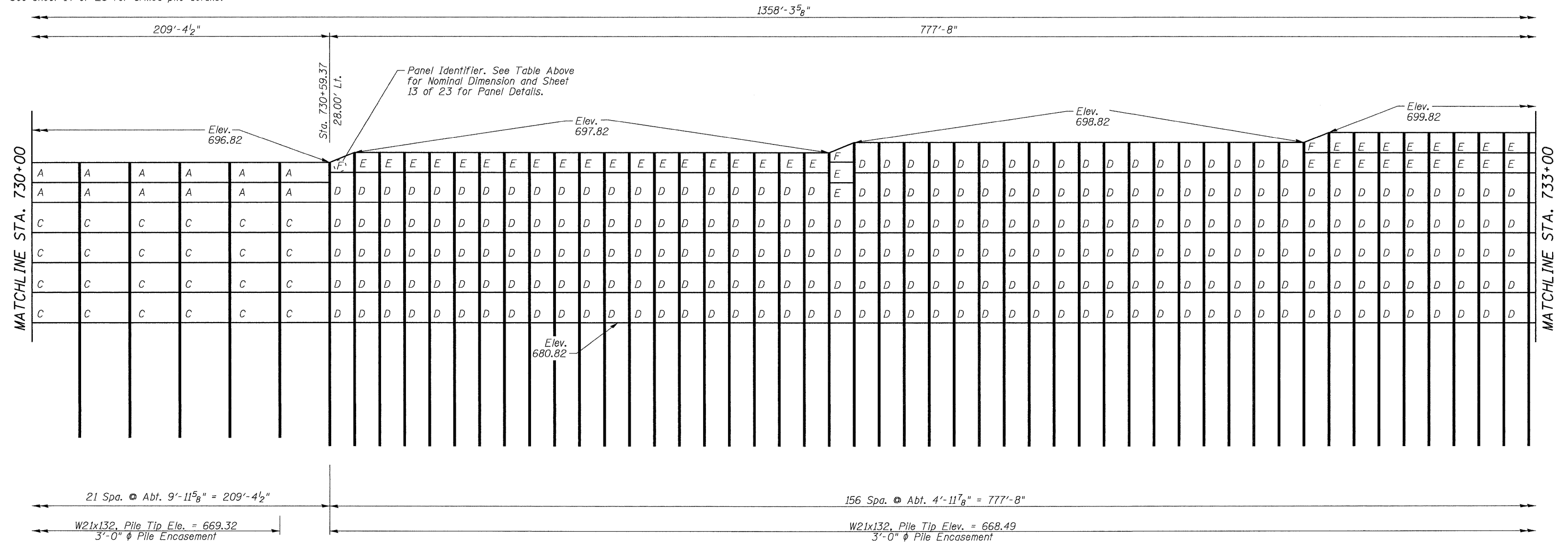
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	12	240
B	1.5 x 10 (sloped)	0	0
C	3 x 10	24	720
D	3 x 5	257	3855
E	2 x 5	38	380
F	1.5 x 5 (sloped)	3	23
G	1.5 x 5 (sloped)	0	0
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 9 Total		334	5218

For actual Panel sizes, Reinforcement, and Finish see sheet 13 of 23.

See sheet 14 of 23 for drilled pile details.



WALL PLAN

WALL PLAN
STRUCTURE NO. 071-7004

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	221
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	0	0
B	1.5 x 10 (sloped)	0	0
C	3 x 10	0	0
D	3 x 5	373	5595
E	2 x 5	65	650
F	1.5 x 5 (sloped)	3	23
G	1.5 x 5 (sloped)	0	0
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 10 Total		441	6268

For actual Panel sizes, Reinforcement, and Finish see sheet 13 of 23.

See sheet 14 of 23 for drilled pile details

1358'-3⁵/₈"

777'-8"

Panel Identifier. See Table Above for Nominal Dimension and Sheet 13 of 23 for Panel Details.

Elev. 701.82

Elev. 702.82

Elev. 699.82

Elev. 700.82

Elev. 680.82

MATCHLINE STA. 733+00

MATCHLINE STA. 736+00

156 Spa. @ Abt. 4'-11⁷/₈" = 777'-8"

W21x132, Pile Tip Elev. = 668.49
3'-0" ϕ Pile Encasement

W21x166, Pile Tip Elev. = 667.99
3'-0" ϕ Pile Encasement

WALL PLAN

WALL PLAN
STRUCTURE NO. 071-7004

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	222
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

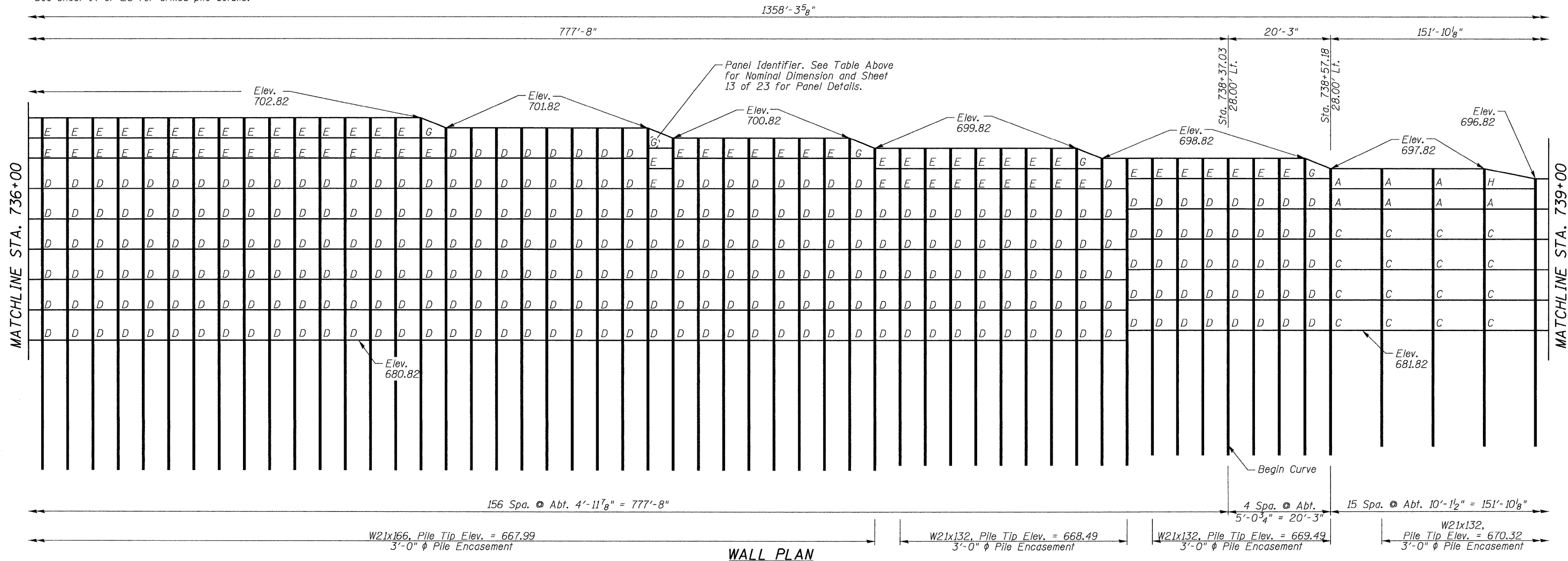
PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	7	140
B	1.5 x 10 (sloped)	0	0
C	3 x 10	16	480
D	3 x 5	296	4440
E	2 x 5	64	640
F	1.5 x 5 (sloped)	0	0
G	1.5 x 5 (sloped)	5	38
H	1.5 x 10 (sloped)	1	15
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 11 Total		389	5753

For actual Panel sizes, Reinforcement, and Finish see sheet 13 of 23.

See sheet 14 of 23 for drilled pile details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



WALL PLAN

**WALL PLAN
STRUCTURE NO. 071-7004**

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	223
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

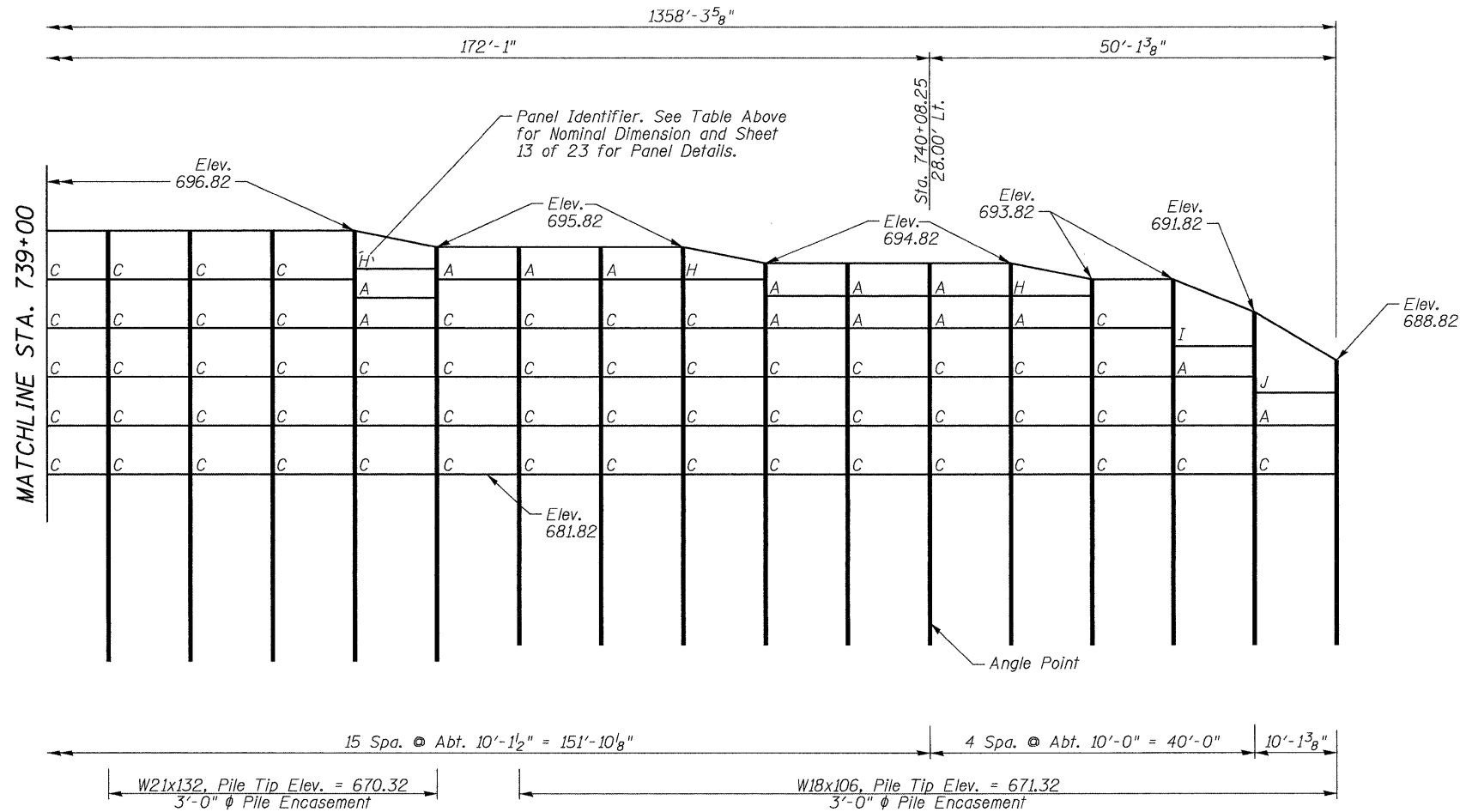
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	14	280
B	1.5 x 10 (sloped)	0	0
C	3 x 10	58	1740
D	3 x 5	0	0
E	2 x 5	0	0
F	1.5 x 5 (sloped)	0	0
G	1.5 x 5 (sloped)	0	0
H	1.5 x 10 (sloped)	3	45
I	3 x 10 (sloped)	1	30
J	3.5 x 10 (sloped)	1	35
Sheet 12 Total			2130

For actual Panel sizes, Reinforcement, and Finish see sheet 13 of 23.

See sheet 14 of 23 for drilled pile details.



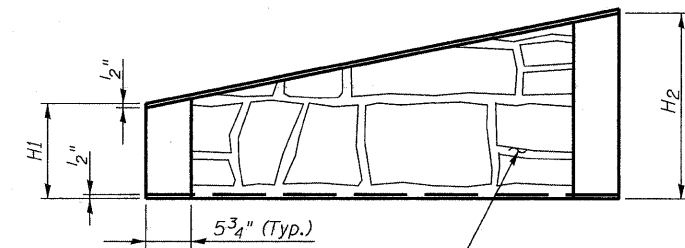
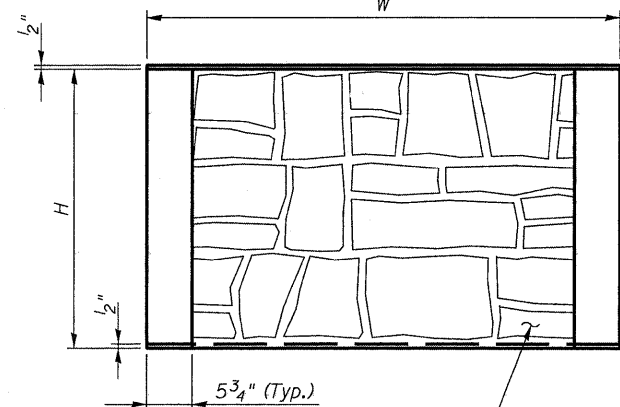
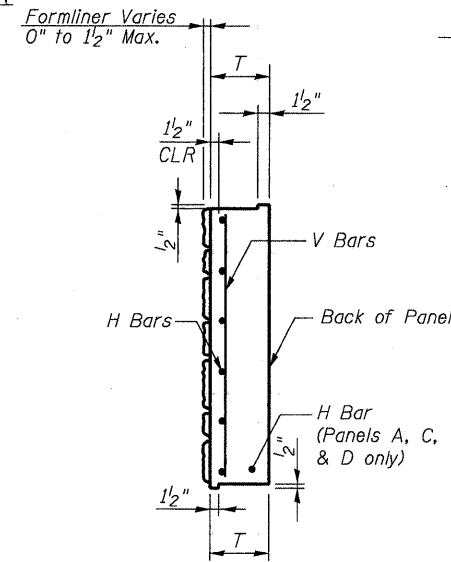
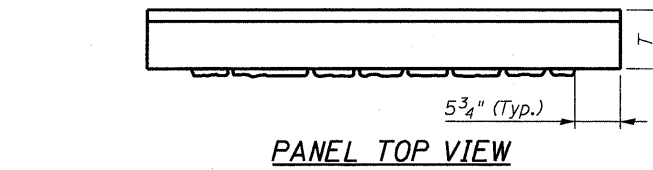
WALL PLAN

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

WALL PLAN
STRUCTURE NO. 071-7004

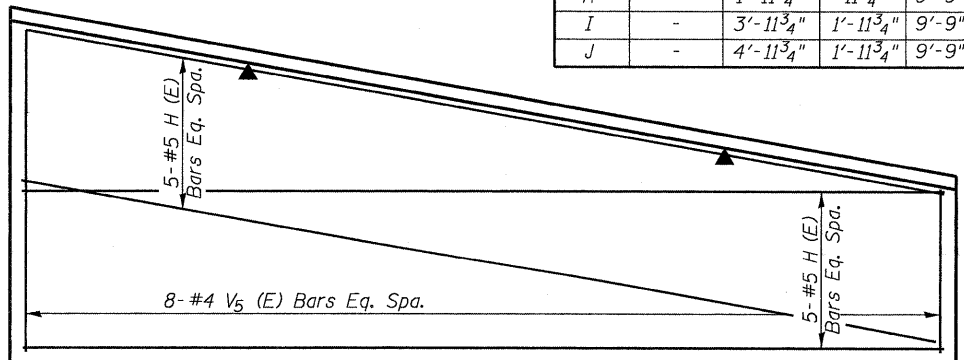
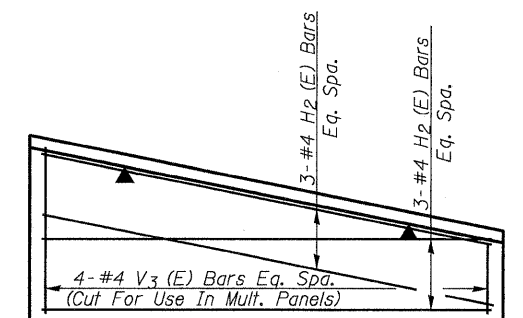
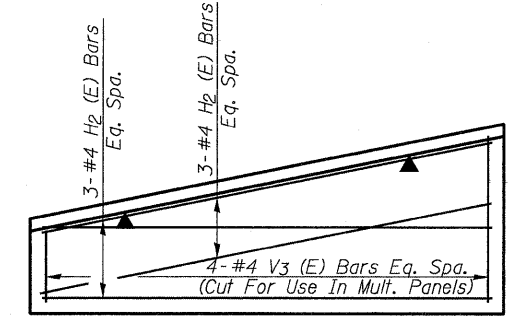
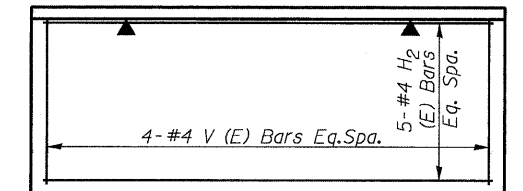
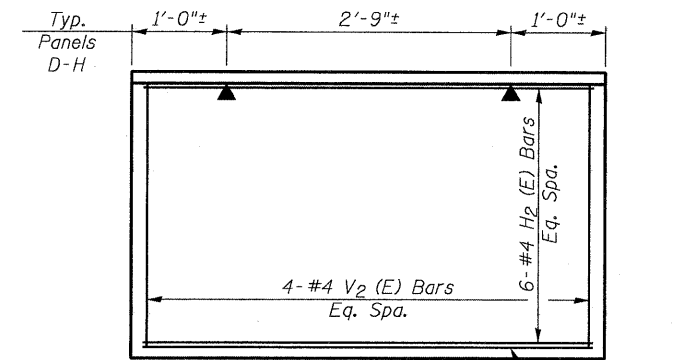
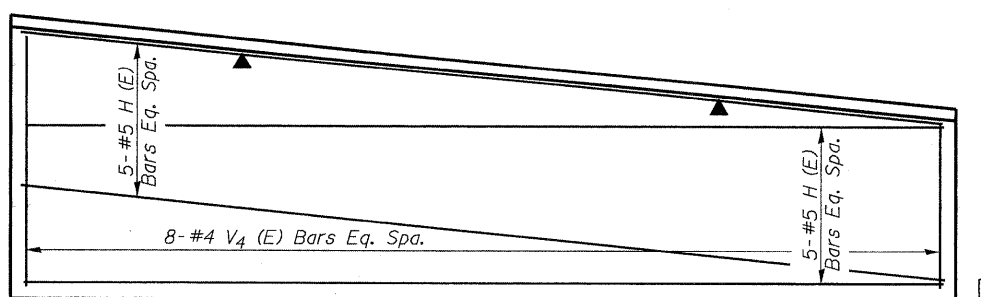
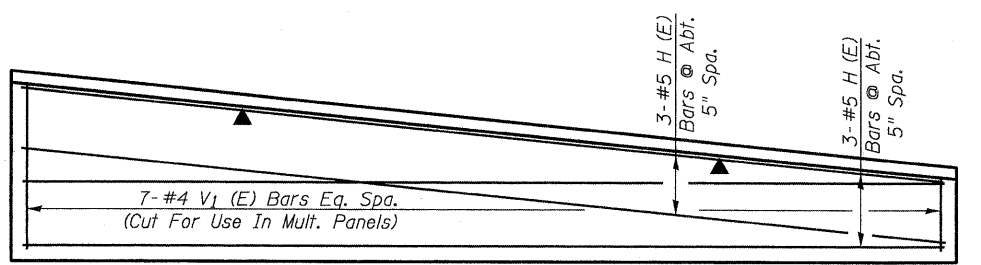
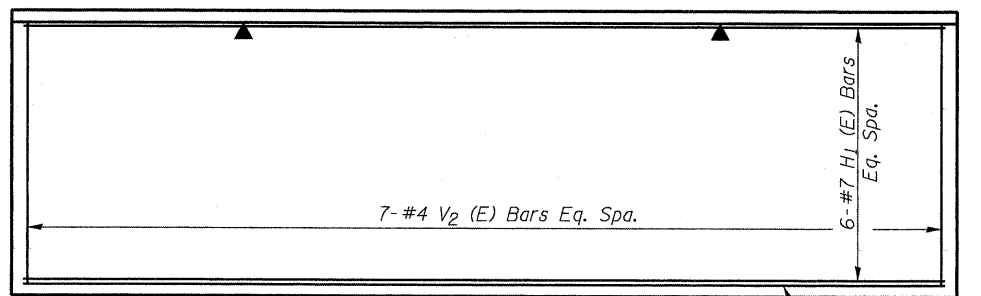
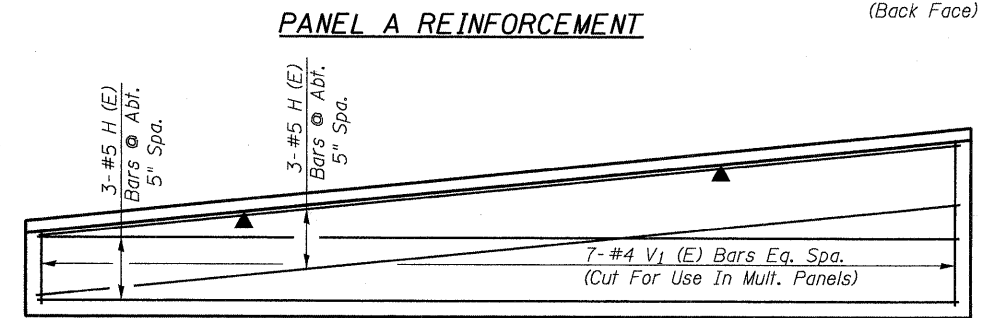
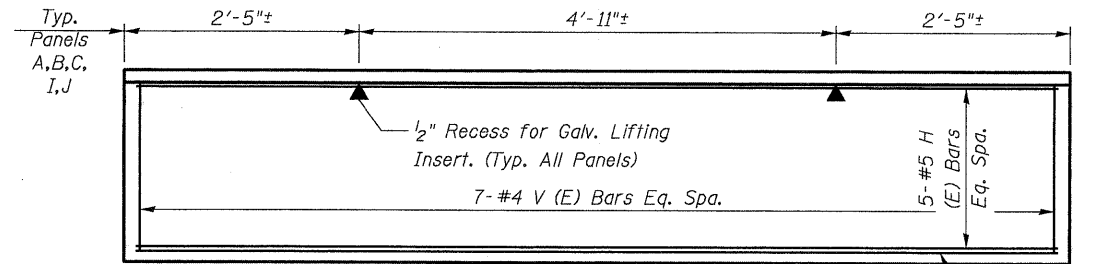
SHEET NO. 12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	224
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PANEL DIMENSIONS TABLE

PANEL	H	H1	H2	W	T
A	1'-11 3/4"	-	-	9'-9"	9/4"
B	-	11 3/4"	1'-11 3/4"	9'-9"	9/4"
C	2'-11 3/4"	-	-	9'-9"	9/4"
D	2'-11 3/4"	-	-	4'-9"	9/4"
E	1'-11 3/4"	-	-	4'-9"	9/4"
F	-	11 3/4"	1'-11 3/4"	4'-9"	9/4"
G	-	1'-11 3/4"	11 3/4"	4'-9"	9/4"
H	-	1'-11 3/4"	11 3/4"	9'-9"	9/4"
I	-	3'-11 3/4"	1'-11 3/4"	9'-9"	9/4"
J	-	4'-11 3/4"	1'-11 3/4"	9'-9"	9/4"



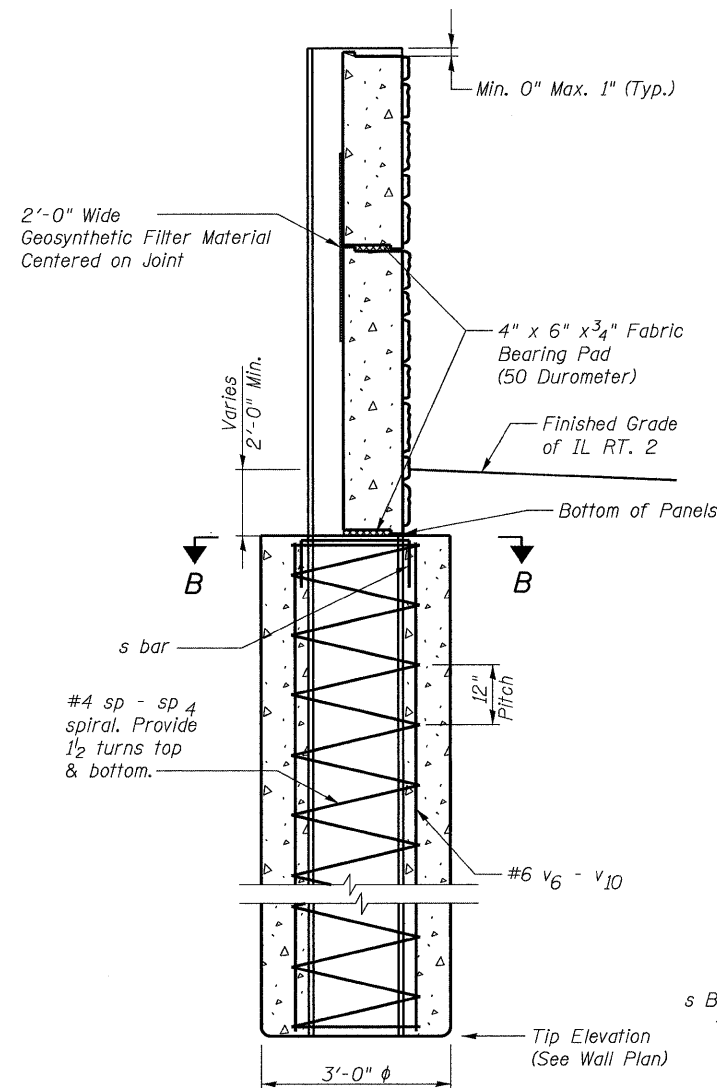
**PANEL DETAILS
STRUCTURE NO. 071-7004**

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

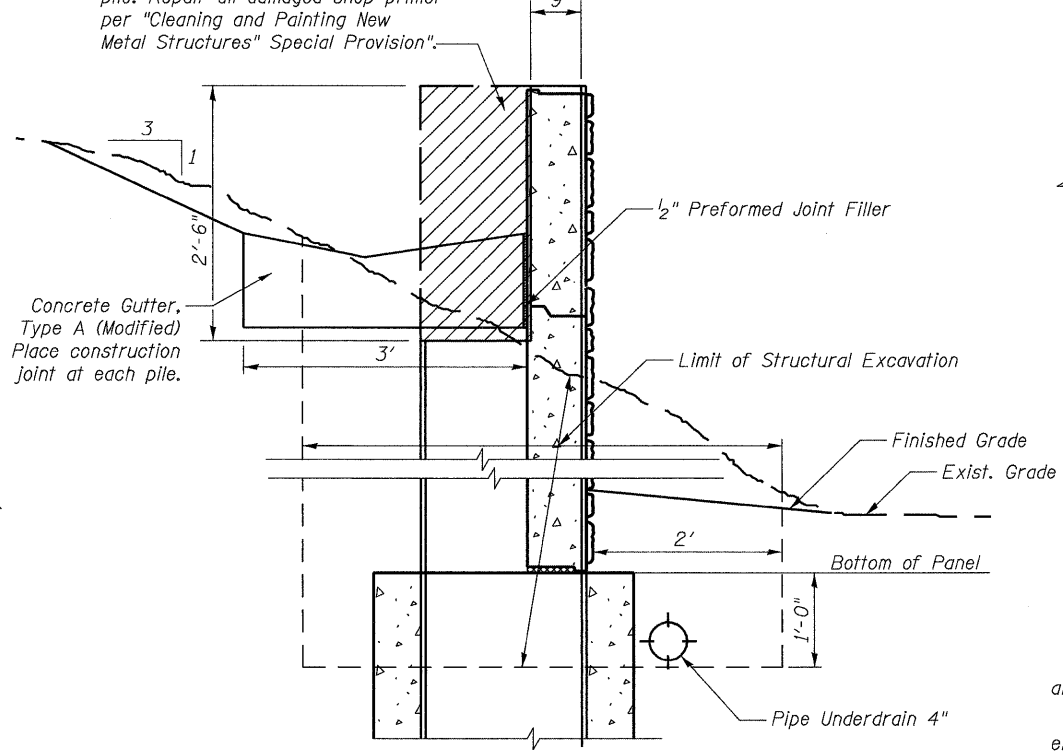
SHEET NO. 13 23 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 225
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

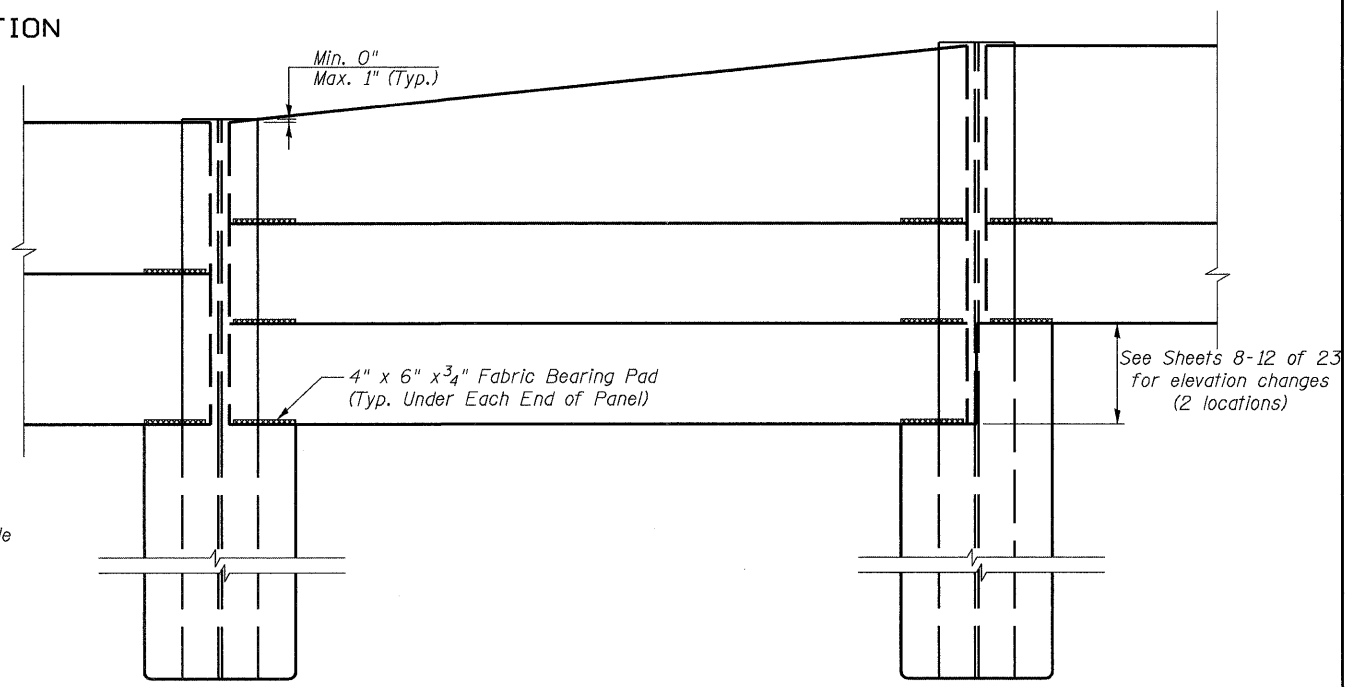
Remove after placement of soldier pile. Repair all damaged shop primer per "Cleaning and Painting New Metal Structures" Special Provision.



SECTION THROUGH PILE



LIMIT OF STRUCTURAL EXCAVATION

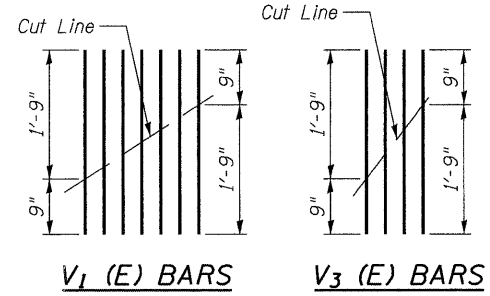


ELEVATION

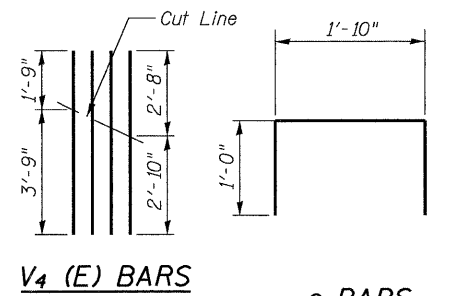
Reinforcement Quantities for information only.
All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".
Reinforcement & Concrete for panels and pile encasement are included in the pay items "Retaining Wall (Special)", "Drilling & Setting Soldier Piles (In Soil)" or "Drilling & Setting Soldier Piles (In Rock)".

BILL OF MATERIALS ***

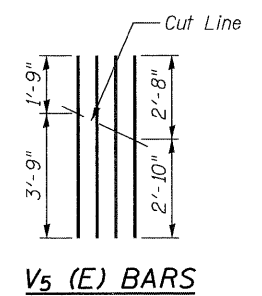
Bar	No.	Size	Length	Shape
V (E)	1102	#4	1'-9"	—
V ₁ (E)	46	#4	2'-6"	—
V ₂ (E)	5069	#4	2'-9"	—
V ₃ (E)	22	#4	2'-6"	—
V ₄ (E)	4	#4	5'-6"	—
V ₅ (E)	4	#4	6'-6"	—
v ₆	60	#6	8'-0"	—
v ₇	324	#6	10'-0"	—
v ₈	288	#6	11'-0"	—
v ₉	912	#6	11'-10"	—
v ₁₀	1020	#6	12'-4"	—
H (E)	470	#5	9'-6"	—
H ₁ (E)	1365	#7	9'-6"	—
H ₂ (E)	7383	#4	4'-6"	—
** sp	5	#4	8'-0"	⌘
** sp ₁	27	#4	10'-0"	⌘
** sp ₂	24	#4	11'-0"	⌘
** sp ₃	76	#4	11'-10"	⌘
** sp ₄	85	#4	12'-4"	⌘
s	370	#4	3'-10"	⌘
Reinforcement Bars, Epoxy Coated	Pounds		64,120	
Reinforcement Bars	Pounds		63,210	
Concrete Structures	Cu. Yd.		624.2	



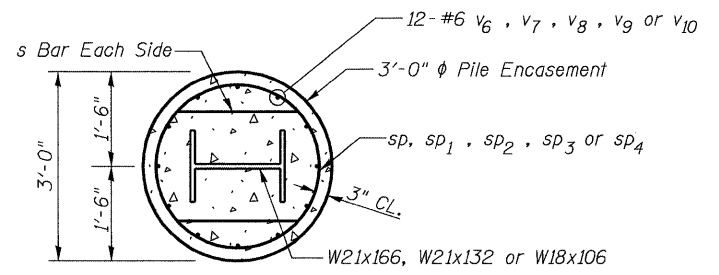
V₁ (E) BARS V₃ (E) BARS



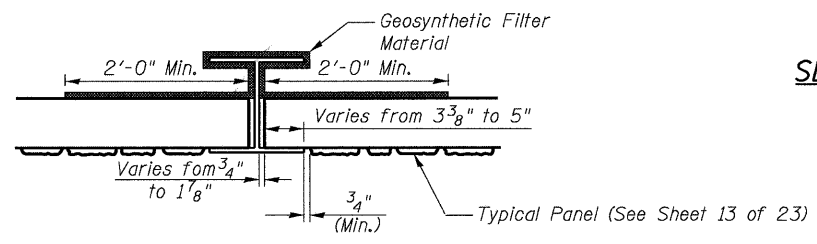
V₄ (E) BARS s BARS



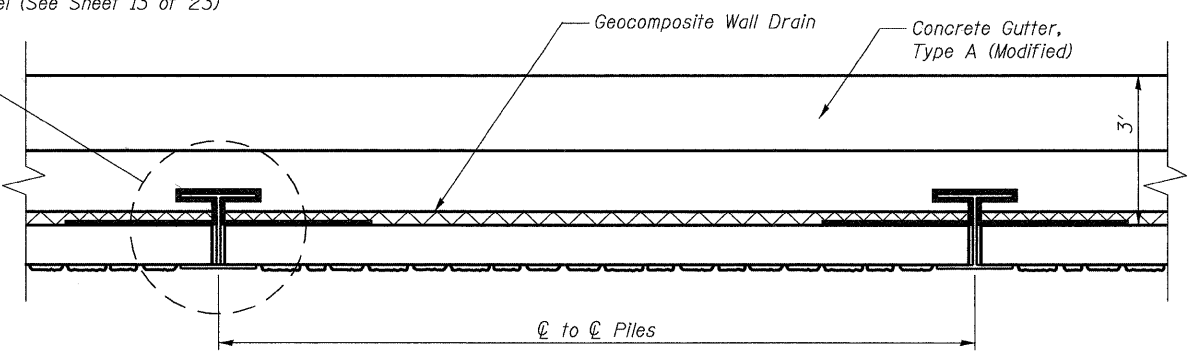
V₅ (E) BARS



SECTION B-B



Typical Panel (See Sheet 13 of 23)



PLAN

WALL DETAILS
STRUCTURE NO. 071-7004

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

**Length is height for spiral.
***For information only.

SHEET NO. 14	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 226
23 SHEETS	CONTRACT NO. 64E17		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 at Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW. SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	P	L	S	O
	P	O	S	I	Stream Bed Elev.	H	W	Q	I
BORING NO.	T	W	S	S	Groundwater Elev.:				
Station	H	S	Qu	T	First Encounter	(ft)	(/6")	(tsf)	(%)
Offset					Upon Completion	ft			
Ground Surface Elev.					After	ft			
8" Asphalt									
MEDIUM brown SILTY CLAY LOAM			0.6	22.0	MEDIUM tan weathered LIMESTONE (continued)	662.80			
MEDIUM brown SAND	681.80	7			VERY DENSE tan weathered LIMESTONE		4		
		4			Auger Refusal		17		
	680.10	7			End of Boring	659.60	100/2'		
VERY DENSE tan CONCRETE		7							
Auger Refusal		4							
Moved Sta. 740+95 12' Lt	677.10	100/3'							
LOOSE tan weathered LIMESTONE		3							
	675.10	4							
MEDIUM tan weathered LIMESTONE		1							
	672.80	5							
		10							
MEDIUM tan weathered LIMESTONE		12							
	670.10	10							
		12							
MEDIUM tan weathered LIMESTONE		7							
	667.60	7							
		10							
DENSE tan weathered LIMESTONE		10							
	665.10	15							
		19							
		9							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

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ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 at Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW. SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	P	L	S	O
	P	O	S	I	Stream Bed Elev.	H	W	Q	I
BORING NO.	T	W	S	S	Groundwater Elev.:				
Station	H	S	Qu	T	First Encounter	(ft)	(/6")	(tsf)	(%)
Offset					Upon Completion	ft			
Ground Surface Elev.					After	ft			
Shoulder (trees)									
Solid Steam			0.8	24.0					
MEDIUM brown SILTY CLAY LOAM	681.50								
	680.00								
MEDIUM brown SAND		5							
	677.50								
Rock - First Encounter 91.8									
	675.00								
Auger Refusal		10							
	672.50								
End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

DESIGNED JMW
CHECKED DFM
DRAWN CTH
CHECKED DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	227
CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 at Mud Creek Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC., TWP. 24N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____
BORING NO. B-22d
Station 734+86
Offset 13.00R Lt. Cl.
Ground Surface Elev. 683.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 676.0 ft
Upon Completion Dry ft
After _____ Hrs. _____ ft

DEPTH	B	U	M	Surface Water Elev.
(ft)	(#)	(tsf)	(%)	ft
0				
0.6	P		21.0	
681.00	2			
679.50	6	1.1	25.0	
676.50	3	0.7	27.0	
675.00	13	B		
100/8				
End of Boring				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 at Mud Creek Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC., TWP. 24N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____
BORING NO. B-23d
Station 734+00
Offset 13.00R Lt. Cl.
Ground Surface Elev. 682.80 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 673.3 ft
Upon Completion 674.3 ft
After _____ Hrs. _____ ft

DEPTH	B	U	M	Surface Water Elev.
(ft)	(#)	(tsf)	(%)	ft
0				
0.8	P		19.0	
680.80	2			
679.30	4	0.8	26.0	
676.80	7			
674.30	9	0.3	23.0	
100/8				
671.30				
End of Boring				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 18	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	230
23 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



SOIL BORING LOG

Page 1 of 1

Date 4/21/08

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 north of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW. SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Solid Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BULGE	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
B-26d 731+00 13.00R Lt Cl 682.70										
STIFF brown SILTY CLAY LOAM			1.5 P	22.0						
	680.70									
	679.20									
First Encounter - weathered Limestone - 93.8	-5									
Auger Refusal	675.70									
End of Boring										
	-10									
	-15									
	-20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 4/21/08

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 north of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW. SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Solid Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BULGE	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
B-27d 730+00 13.00R Lt Cl 882.50										
STIFF brown SILTY CLAY LOAM			1.4 P	22.0						
	680.50									
First Encounter - weathered Limestone - 93.8	-5									
Auger Refusal	673.50									
End of Boring	672.50									
	-10									
	-15									
	-20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 20	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	232
CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 north of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.
Station	E	L	C	O	ft
	P	O	S	I	Stream Bed Elev.
	T	W	Qu	S	ft
BORING NO.	H	S		T	Groundwater Elev.:
Station					First Encounter
Offset					Upon Completion
Ground Surface Elev.	(ft)	(#")	(tsf)	(%)	After Hrs.
12" Asphalt					
STIFF light brown SILTY CLAY LOAM	680.80	1			
		4	1.8	27.0	
	678.80				
MEDIUM tan weathered LIMESTONE, moist		5			
		7			
	676.80				
MEDIUM tan weathered LIMESTONE		7			
		3			
	674.30				
DENSE tan weathered LIMESTONE		14			
		10			
		34			
Auger Refusal	671.30				
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 north of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC., TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Solid Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.
Station	E	L	C	O	ft
	P	O	S	I	Stream Bed Elev.
	T	W	Qu	S	ft
BORING NO.	H	S		T	Groundwater Elev.:
Station					First Encounter
Offset					Upon Completion
Ground Surface Elev.	(ft)	(#")	(tsf)	(%)	After Hrs.
8" Asphalt Shoulder					
MEDIUM brown SILTY CLAY LOAM	680.80		0.5	18.0	
			P		
First Encounter - weathered LIMESTONE - 93.8					
Auger Refusal					
	675.10				
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 21	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	233
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2 north of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTHS	BLOW COUNTS	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	Hrs.
Shoulder 10" Asphalt										
STIFF dark gray SILTY CLAY LOAM	681.10	2	1.7	25.0						
	679.60	4	B							
MEDIUM brown SILTY CLAY LOAM with LIMESTONE fragments	677.10	3	0.8	30.0						
		9	P							
VERY DENSE tan weathered LIMESTONE	675.60	10								
Auger Refusal	100/1'									
End of Boring										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

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ROUTE FA 742 DESCRIPTION P92-064-86 Retaining Wall, IL 2 north of Mud Creek LOGGED BY J. Strating
SECTION 37 RS-3 LOCATION SEC. TWP. RNG.
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTHS	BLOW COUNTS	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
Station	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	Hrs.
Soil Matrix										
	681.00									
	679.50									
6.5' Auger Refusal	-5									
Borehole continued with rock coring.	676.50									
	-10									
	-15									
	-20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 22	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 234
23 SHEETS	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department
of Transportation
Division of Highways
Illinois Department of Transportation/D-2

ROCK CORE LOG

Page 1 of 1

Date 11/16/09

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining Wall, IL 2 north of Mud Creek LOGGED BY J. Strating

SECTION 37 RS-3 LOCATION SEC., TWP., RNG.

COUNTY Ogle CORING METHOD _____

STRUCT. NO. _____ CORING BARREL TYPE & SIZE _____

Station 736+00 Core Diameter 2 in

BORING NO. B-1L Top of Rock Elev. 878.50 ft

Station 736+00 Begin Core Elev. 676.50 ft

Offset 14 COR Lt CL

Ground Surface Elev. 683.00 ft

DEPTH (ft)	CORRE (#)	RECOVER (%)	R-Q-D (%)	CORE TIME (min/ft)	STRENGTH (tsf)
676.50	1	80	40		830.6
Dolomite: marbled buff-brown-dark gray, aphanitic, dense, massively bedded with occasional pitting. t.s.f.: 672.9 to 672.4					
671.50	2	70	65		740.5
Dolomite: as above t.s.f.: 669.4 to 668.7					
666.50	3	100	62		874.2
Dolomite: as above, with occasional structures visible.					
661.50	4	95	65		661.1
Dolomite: as above t.s.f.: 659.2 to 658.7					
656.50					
End of Boring					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7004

SHEET NO. 23	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	742	37R-4	OGLE	867	235
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

Benchmark: Railroad spike in tree at Sta. 854+68.17,
42.39' Rt., Elev. = 677.00

Existing Structure: None

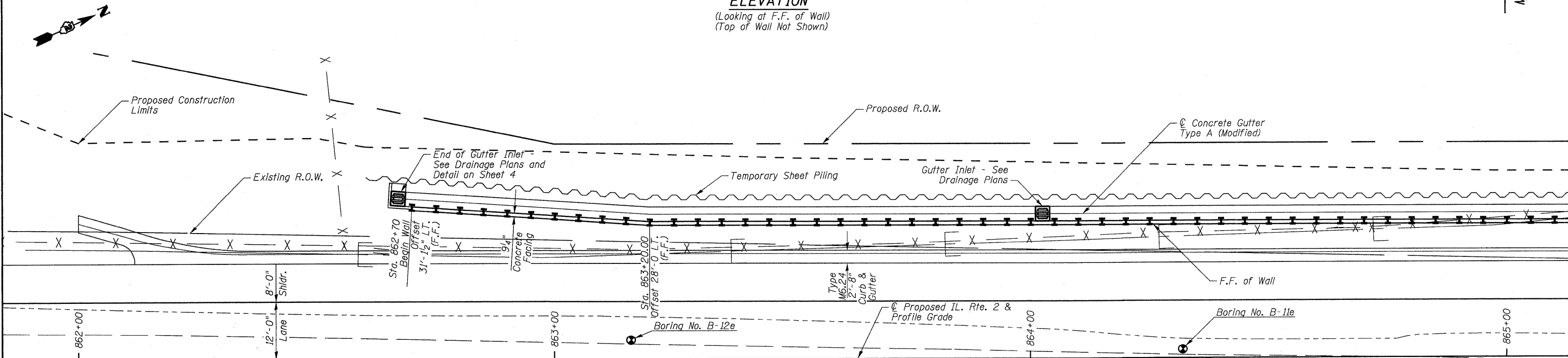
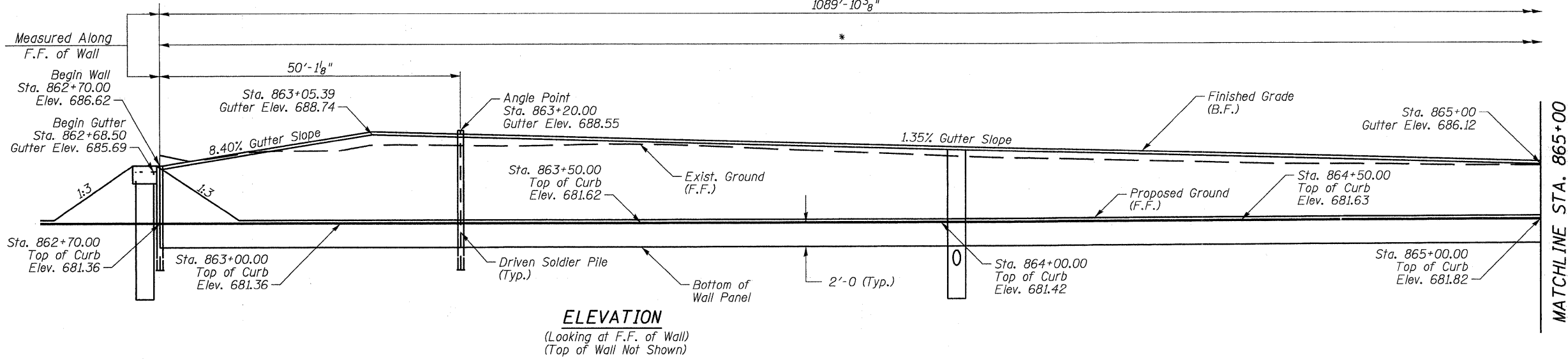
* For top of wall elevation, pile section, spacing and tip elevation see sheets 7-10 of 18. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1089'-10³/₈"

SHEET INDEX

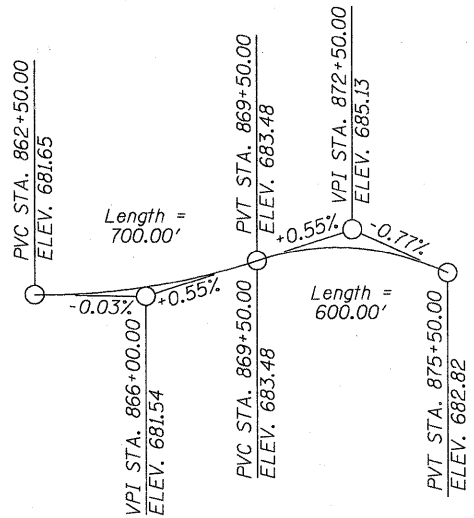
NO.	DESCRIPTION
1-4	GENERAL PLAN
5	GENERAL NOTES & TOTAL BILL OF MATERIALS
6	WALL SECTION
7-10	WALL PLAN
11	PANEL DETAILS
12	WALL DETAILS
13-18	BORING LOGS



PLAN

CURVE DATA
(IL. Rte. 2)

P.I. STA = 869+73.50
Δ = 21° 08' 35" (LT.)
D = 2° 51' 53"
R = 2,000.00'
T = 373.26'
L = 738.03'
E = 34.53'
P.C. STA = 866+00.24
P.T. STA = 873+38.27



PROFILE GRADE
(Along & Proposed IL. Rte. 2)

NOTES

Stations and Offsets are given from the & Proposed IL. Rte. 2 at the front face of wall unless otherwise noted.
See Sheet 5 of 18 for Bill of Materials.
F.F. = Front Face
B.F. = Back Face

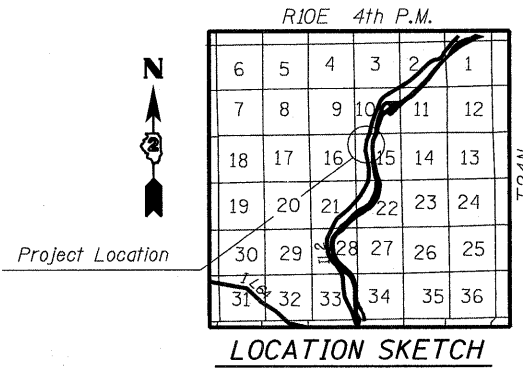
Howard R. Green Company



David F. Maxwell, S.E.
Reg. No. 081-005455
Date: 3/17/10
My registration expires November 30, 2010.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (S.E.)
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
IL. RTE. 2
FAP 742 SECTION 37R-4
OGLE COUNTY
RETAINING WALL F
STA. 862+70.00 TO STA. 873+70.00
STRUCTURE NO. 071-7005



LOCATION SKETCH

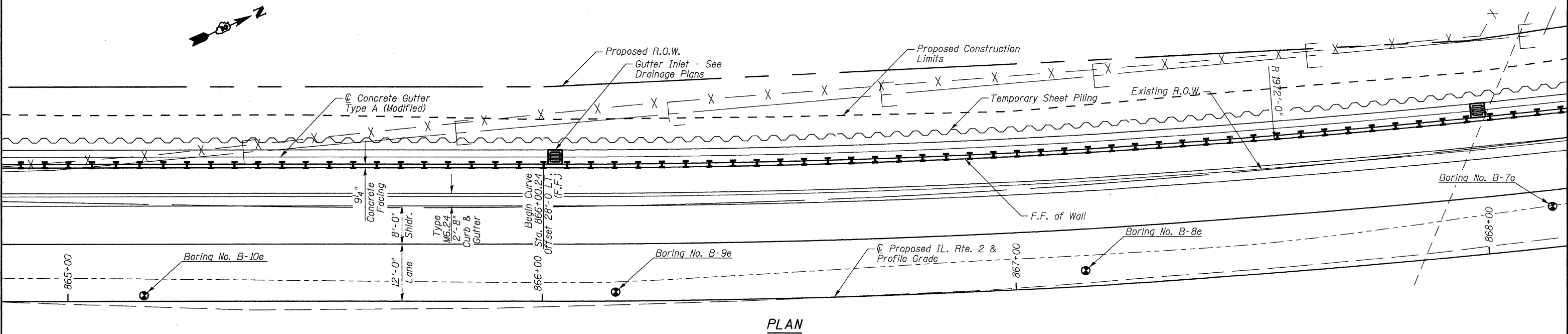
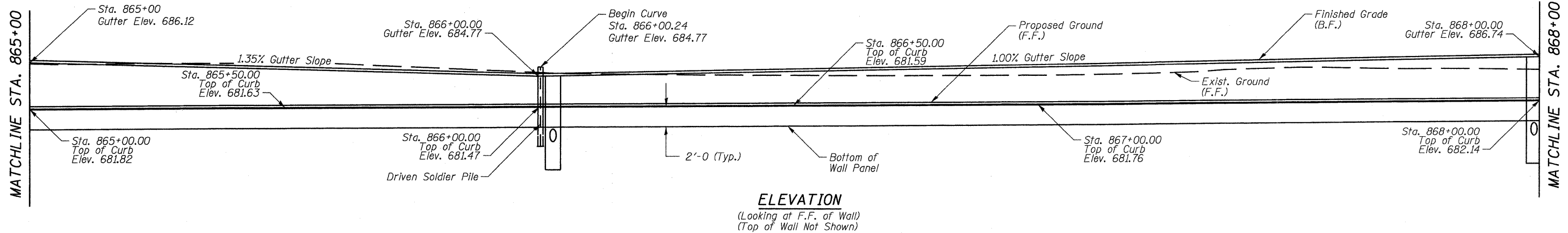
DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18 SHEETS	742	37R-4	OGLE	867	236
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* For top of wall elevation, pile section, spacing and tip elevation see sheets 7-10 of 18. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

1089'-10³/₈"



DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

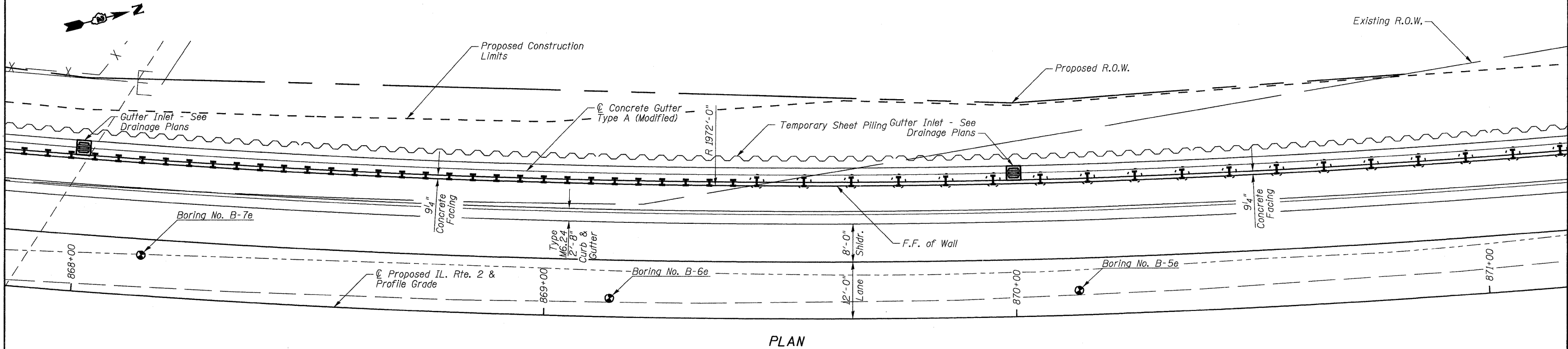
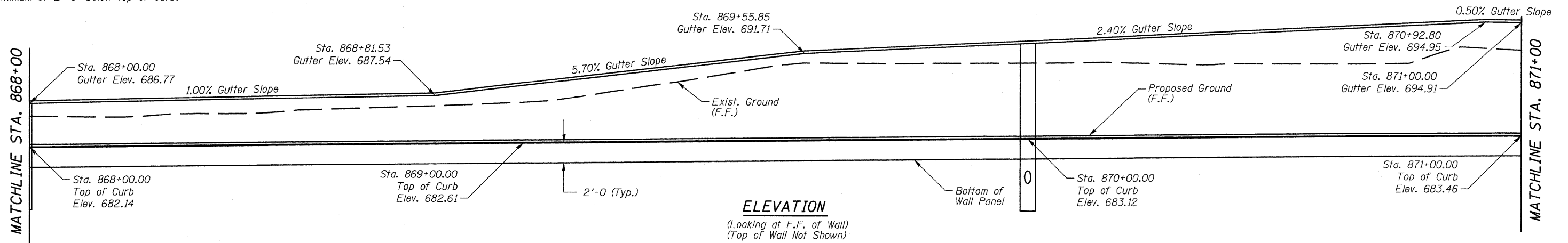
GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7005

SHEET NO. 2 18 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 237
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1089'-10³/₈"

* For top of wall elevation, pile section, spacing and tip elevation see sheets 7-10 of 18. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

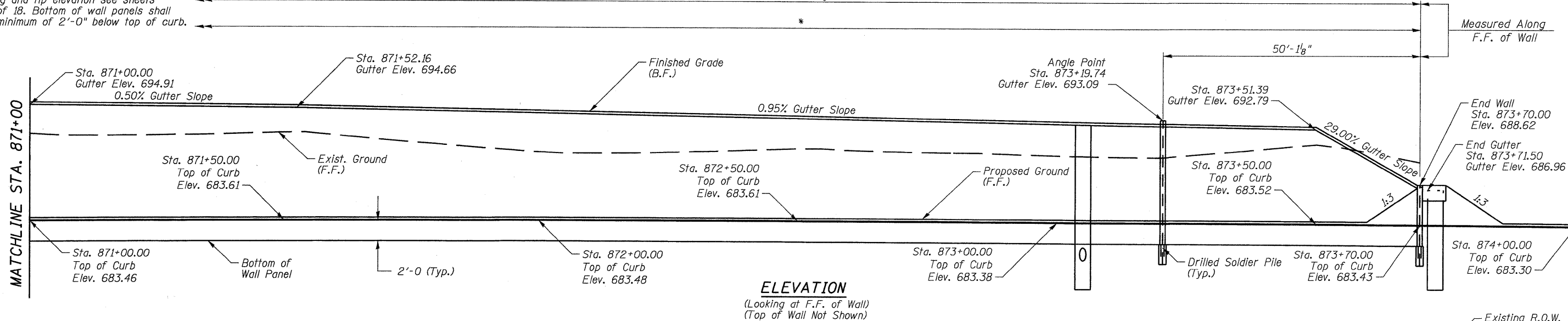
GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7005

SHEET NO. 3 18 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	238
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

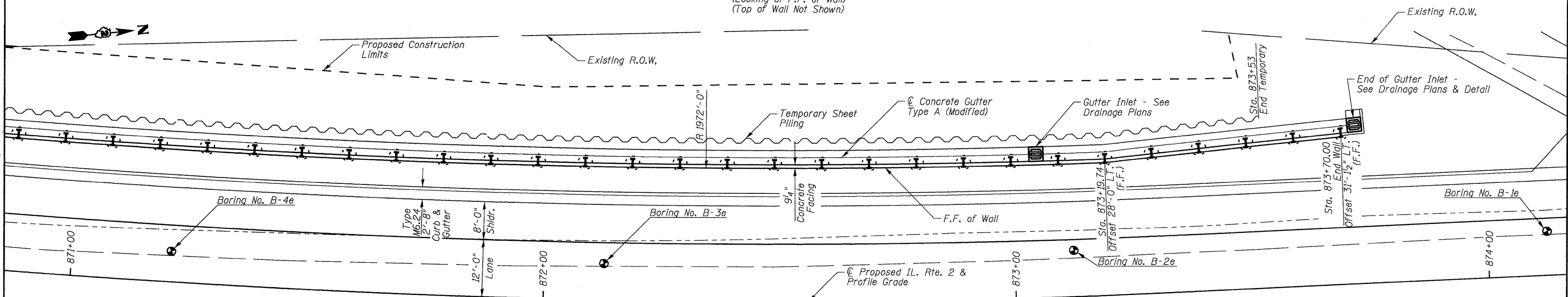
* For top of wall elevation, pile section, spacing and tip elevation see sheets 7-10 of 18. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

1089'-10³/₈"

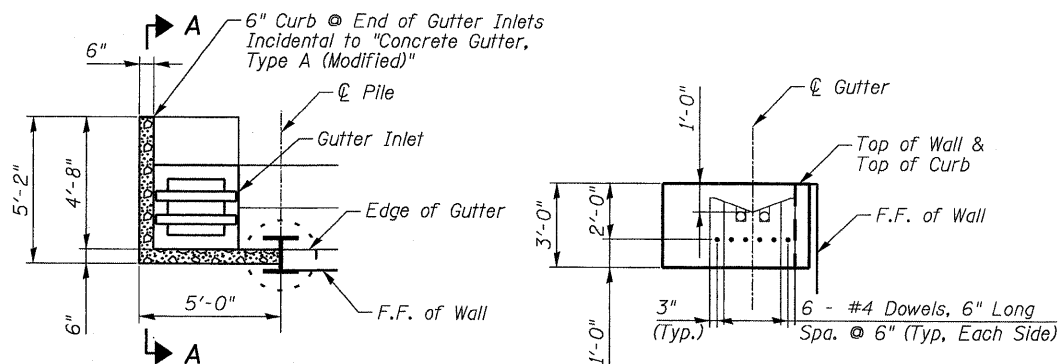


ELEVATION

(Looking at F.F. of Wall)
(Top of Wall Not Shown)



PLAN



**END OF GUTTER
INLET CURB DETAIL**

End @ Sta. 862+70 Shown Here
End @ Sta. 873+70 Opp. Hand

SECTION A-A

DESIGNED CTH
CHECKED DFM
DRAWN CTH
CHECKED DFM

**GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7005**

SHEET NO. 4 18 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	239
CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Drilling and setting of piles will require drilling into loose sand. (See boring logs). Temporary drill casings or drilling slurry may be required to keep holes open prior to placement of concrete. See drilled soldier pile retaining wall special provision. All drilling will be paid as "Drilling & Setting Soldier Piles (In Soil)".

Concrete shall be painted in accordance with special provisions. The color shall be selected by the engineer.

Exposed steel wide flange/pile shall be painted with an inorganic zinc rich primer/acrylic/acrylic paint system for shop and field painting except for portions located more than 4 feet below the finished grade at the front face of the wall. The finished coat shall be only applied to the exposed surfaces of the steel piles after the concrete panels have been installed. The color of the final finish coat shall be approved by the Resident Engineer and Project Engineer. See special provisions for Cleaning and Painting New Metal Structures.

After placement of bottom precast panel, fill must be placed equally on both sides in order to continue construction of wall and place additional panels. Backfill at front face of wall must be at finished grade.

Method used for cutting piles to their final length shall result in a smooth and neat appearance. Jagged edges shall not be acceptable.

All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".

Installation of the name plate shall be in accordance with Highway Standard 515001-03 and Article 515 of the Standard Specifications. The location of the name plate to be determined by the Resident Engineer.

If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications & Supplements

DESIGN STRESSES

Precast Units

$f_y = 60,000 \text{ psi}$

$f'_c = 5,000 \text{ psi (Precast)}$

Field Units

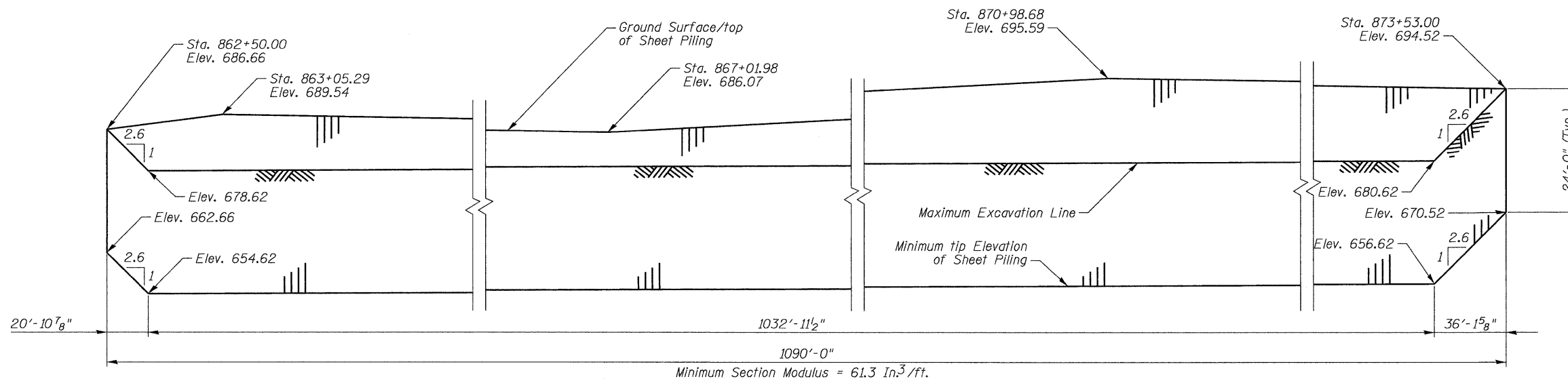
$f_y = 60,000 \text{ psi (Reinforcement)}$

$f_y = 50,000 \text{ psi (AASHTO M270 Gr. 50)}$

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	QTY.
Structure Excavation	Cu. Yd.	1,997.5
Name Plates	Each	1
Pipe Underdrains for Structures 4"	Foot	1,089.8
Concrete Gutter, Type A (Modified)	Foot	1,089.8
Furnishing Soldier Piles (HP Section)	Foot	3,269
Furnishing Soldier Piles (W Section)	Foot	1,601
Temporary Sheet Piling*	Sq. Ft.	38,036
Geocomposite Wall Drain	Sq. Yd.	1,133
Drilling & Setting Soldier Piles (In Soil)	Cu. Ft.	7,092
Driving Soldier Piles	Foot	3,269
Retaining Wall (Special)	Sq. Ft.	11,721
Staining Concrete Structures	Sq. Yd.	983

* Temporary Sheet Piling design below.



LEFT STATION 862+70 TO 873+70
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 742 SEC. 37R-4
STRUCTURE NO. 071-7005

NAME PLATE
See Std. 515001

TEMPORARY SHEET PILING DETAIL

(Looking West)

GENERAL NOTES & TOTAL BILL OF MATERIALS

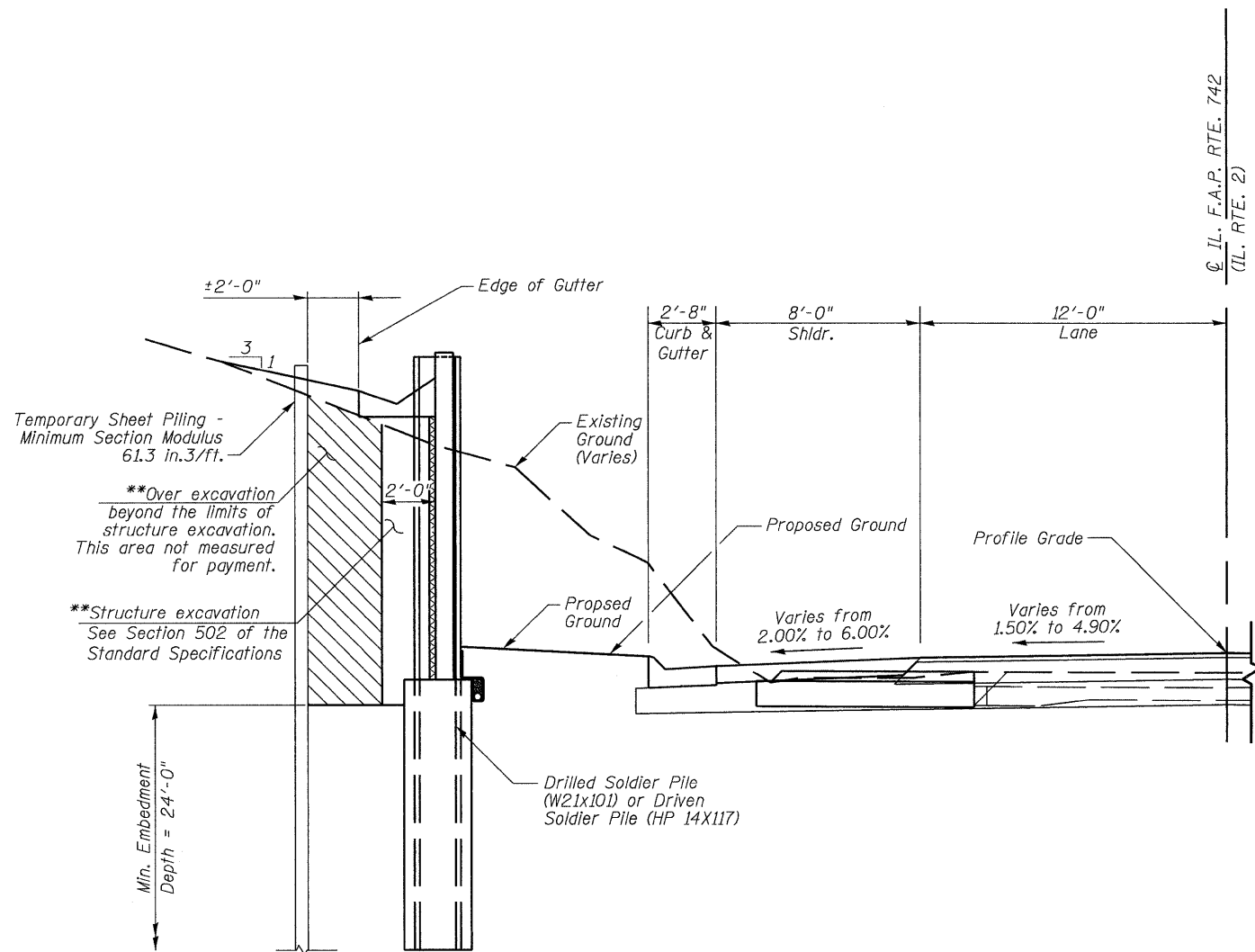
STRUCTURE NO. 071-7005

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CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

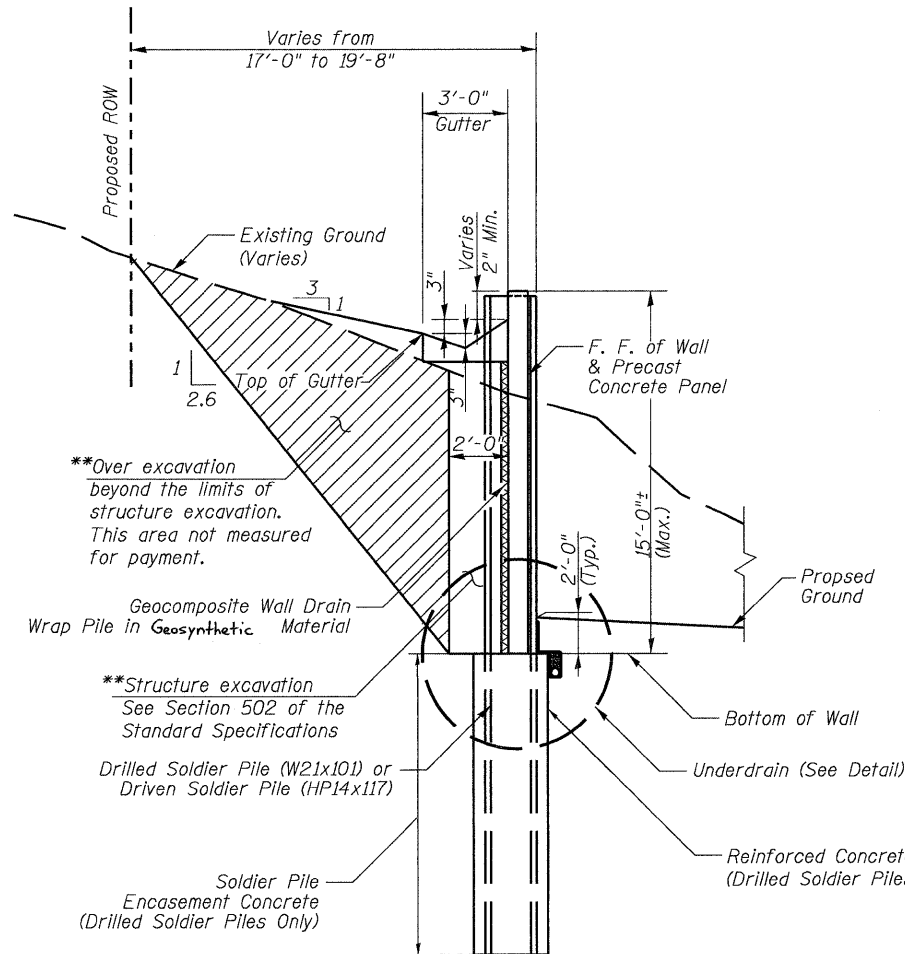
Howard R. Green Company

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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18 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

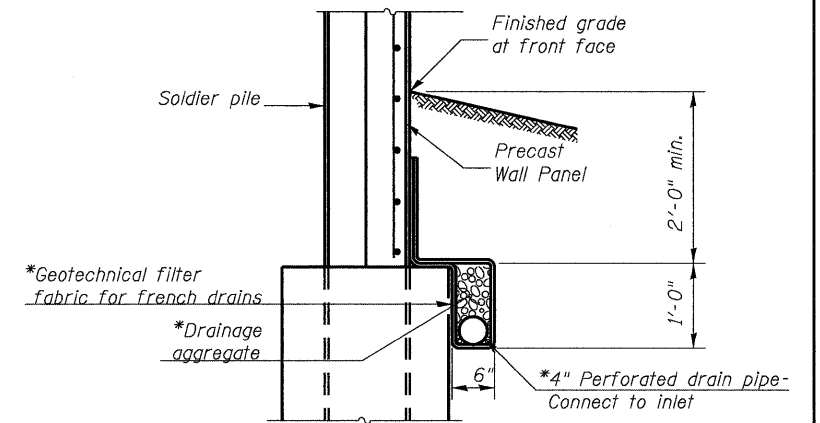
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



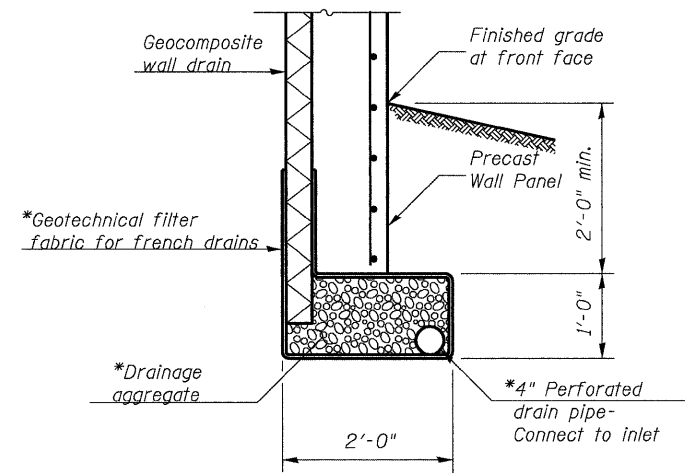
RETAINING WALL TYPICAL SECTION
STA. 862+70.00 TO STA. 873+53.00
(LOOKING NORTH)



RETAINING WALL SECTION
WITHOUT TEMPORARY SHEET PILING
Sta. 873+53.00 to Sta. 873+70.00
(LOOKING NORTH)



UNDERDRAIN DETAIL AT SOLDIER PILES



UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

Note:
See sheets 7-10 of 18 for W21x101 / HP14x117 location and spacing.

Precast panels will be finished with a uniform Ashlar Stone pattern with a horizontal break every 1'-0" vertically. See sheet 11 of 18.

* Included in the cost of pipe underdrains for structures.

** Backfill remainder of structure excavation and over excavation with Granular Backfill. Cost included in structure excavation.

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

DETAILS
STRUCTURE NO. 071-7005

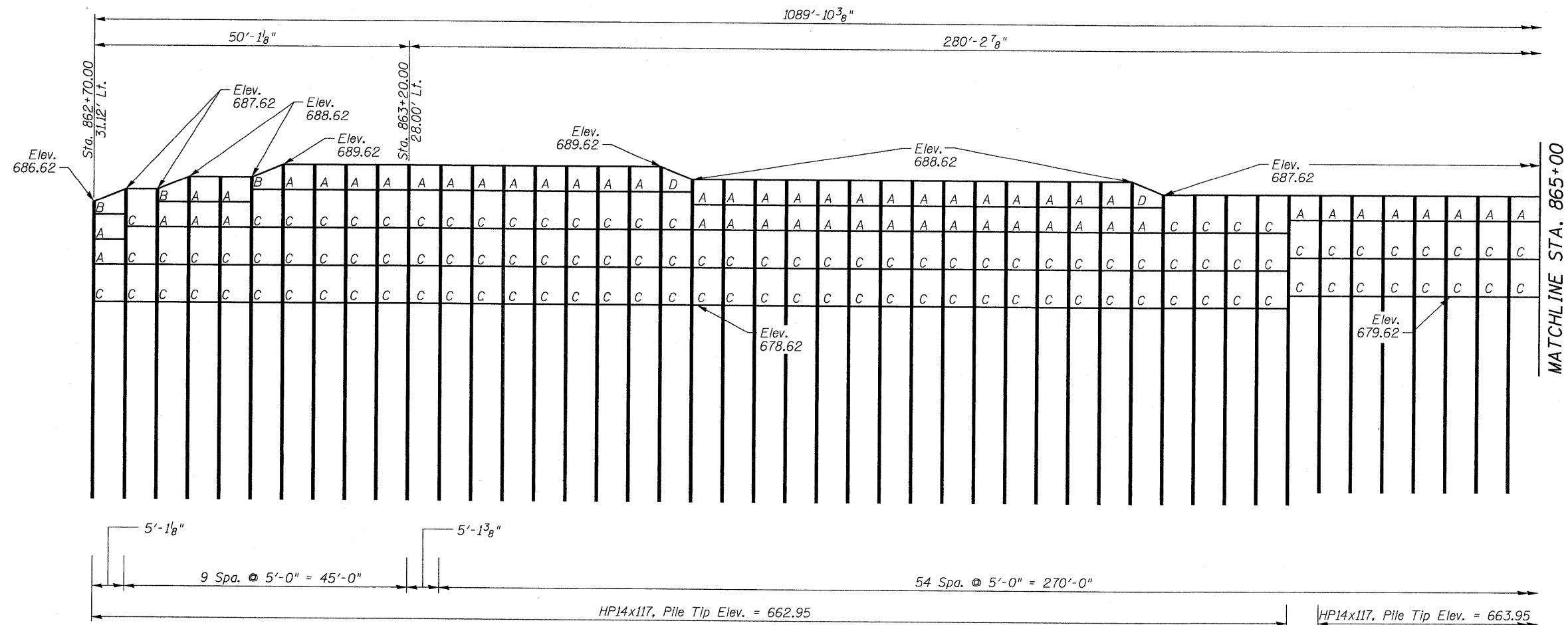
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	742	37R-4	OGLE	867	241
18 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 5	56	560
B	1.5 x 5 (sloped)	3	23
C	3 x 5	110	1650
D	1.5 x 5 (sloped)	2	15
E	2 x 10	0	0
F	3 x 10	0	0
G	1.5 x 10 (sloped)	0	0
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 7 Total		171	2248

For actual Panel sizes, Reinforcement, and Finish see sheet 11 of 18.



WALL PLAN

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

WALL PLAN
STRUCTURE NO. 071-7005

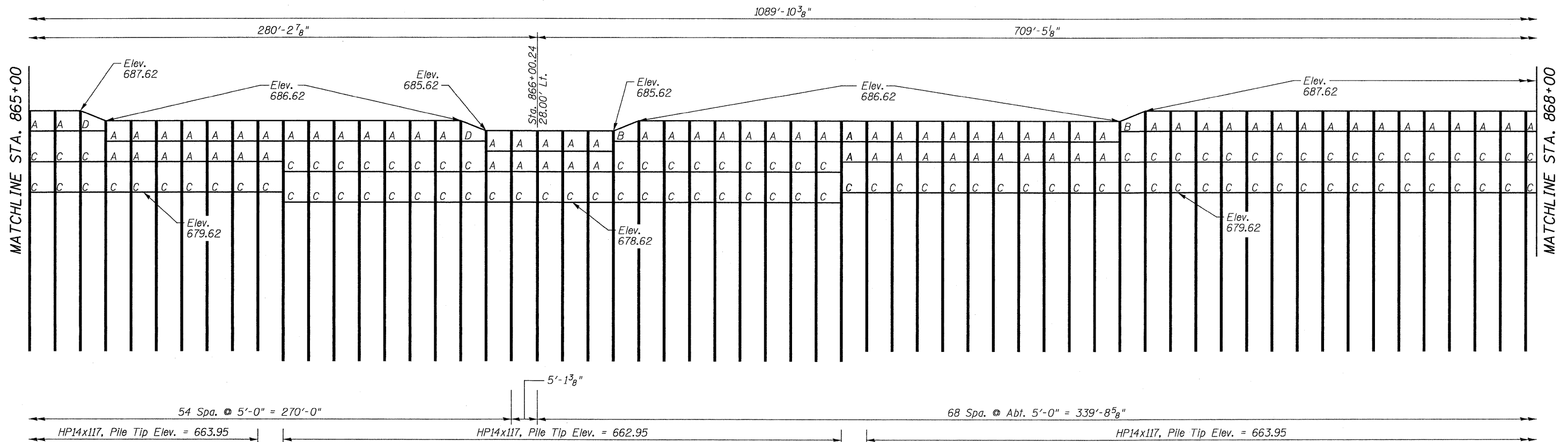
SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18 SHEETS	742	37R-4	OGLE	867	242
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 5	79	790
B	1.5 x 5 (sloped)	2	15
C	3 x 5	97	1455
D	1.5 x 5 (sloped)	2	15
E	2 x 10	0	0
F	3 x 10	0	0
G	1.5 x 10 (sloped)	0	0
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 8 Total			2275

For actual Panel sizes, Reinforcement, and Finish see sheet 11 of 18.



WALL PLAN

**WALL PLAN
STRUCTURE NO. 071-7005**

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

SHEET NO. 8 18 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	243
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

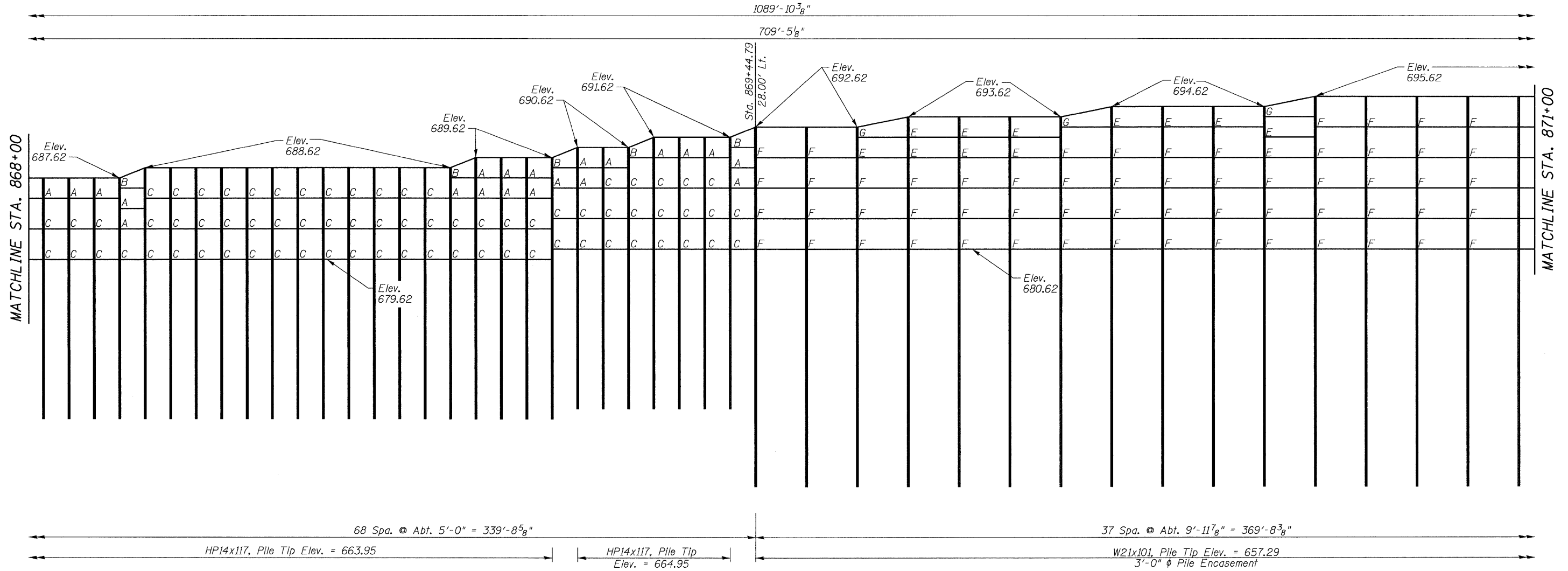
PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 5	21	210
B	1.5 x 5 (sloped)	5	38
C	3 x 5	72	1080
D	1.5 x 5 (sloped)	0	0
E	2 x 10	12	240
F	3 x 10	59	1770
G	1.5 x 10 (sloped)	3	45
H	1.5 x 10 (sloped)	0	0
I	3 x 10 (sloped)	0	0
J	3.5 x 10 (sloped)	0	0
Sheet 9 Total		172	3383

For actual Panel sizes, Reinforcement, and Finish see sheet 11 of 18.

See sheet 12 of 18 for drilled pile details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



WALL PLAN

**WALL PLAN
STRUCTURE NO. 071-7005**

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	244
18 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

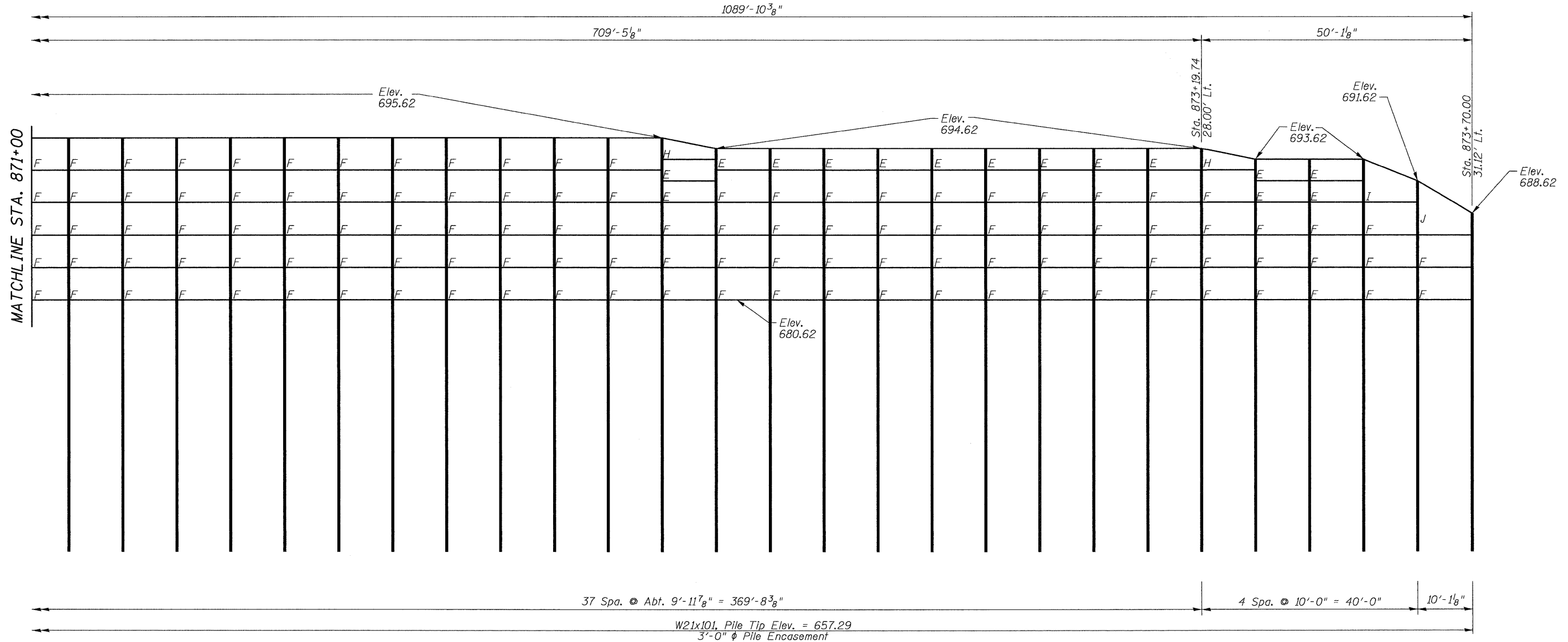
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 5	0	0
B	1.5 x 5 (sloped)	0	0
C	3 x 5	0	0
D	1.5 x 5 (sloped)	0	0
E	2 x 10	15	300
F	3 x 10	114	3420
G	1.5 x 10 (sloped)	0	0
H	1.5 x 10 (sloped)	2	30
I	3 x 10 (sloped)	1	30
J	3.5 x 10 (sloped)	1	35
Sheet 10 Total		133	3815

For actual Panel sizes, Reinforcement, and Finish see sheet 11 of 18.

See sheet 12 of 18 for drilled pile details.



WALL PLAN

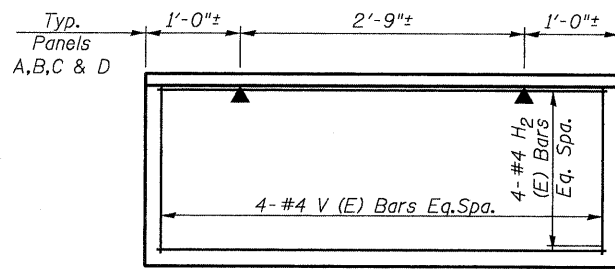
WALL PLAN
STRUCTURE NO. 071-7005

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

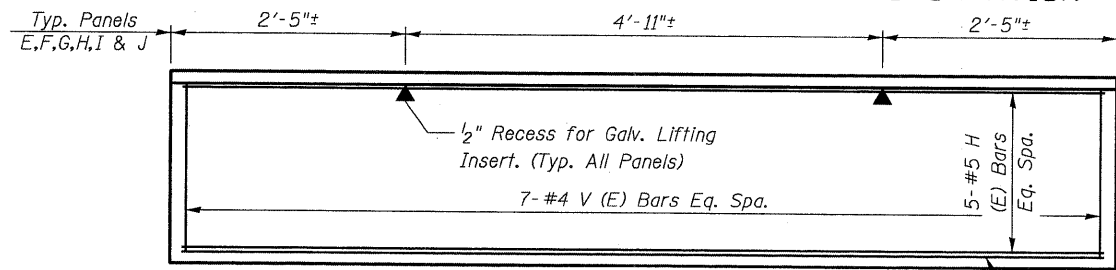
Howard R. Green Company

SHEET NO. 10 18 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

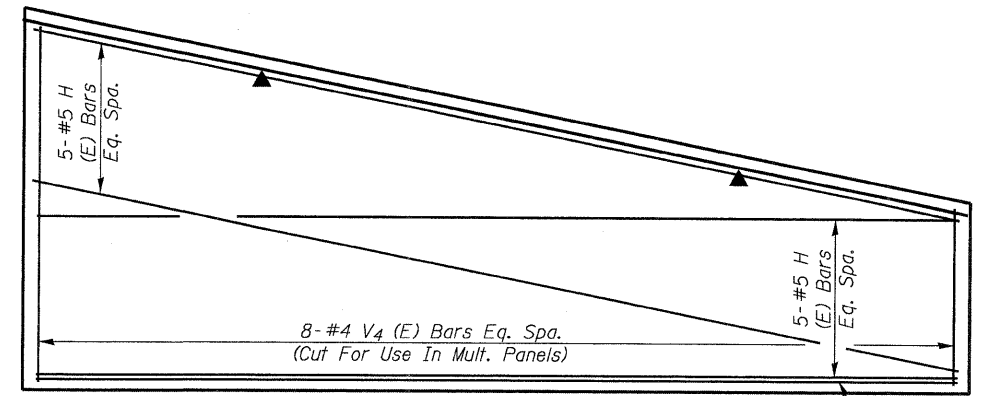
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



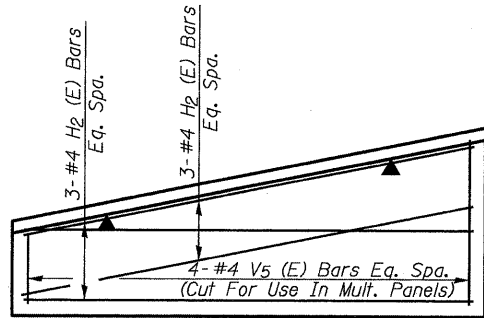
PANEL A REINFORCEMENT



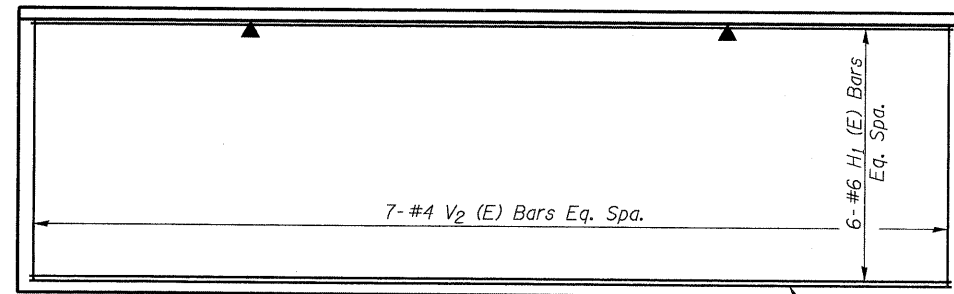
PANEL E REINFORCEMENT



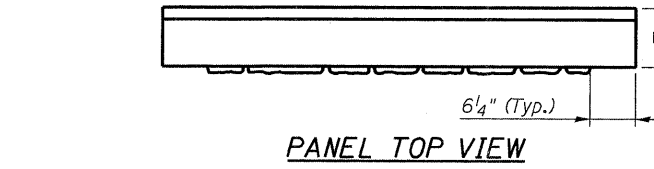
PANEL J REINFORCEMENT



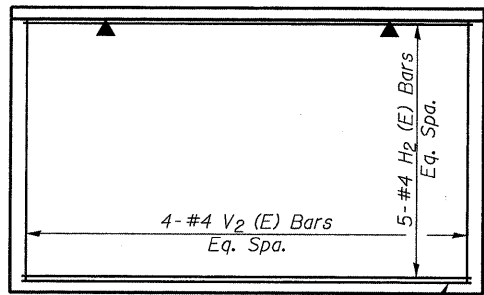
PANEL B REINFORCEMENT



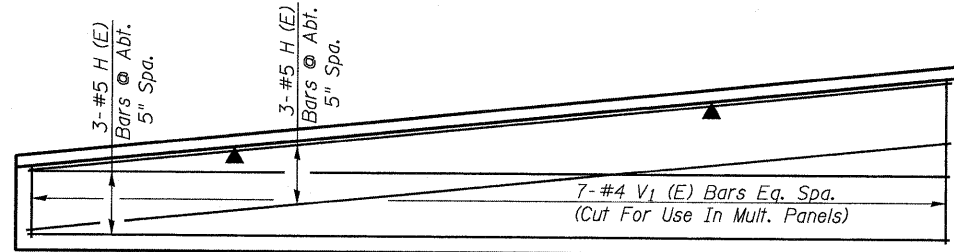
PANEL F REINFORCEMENT



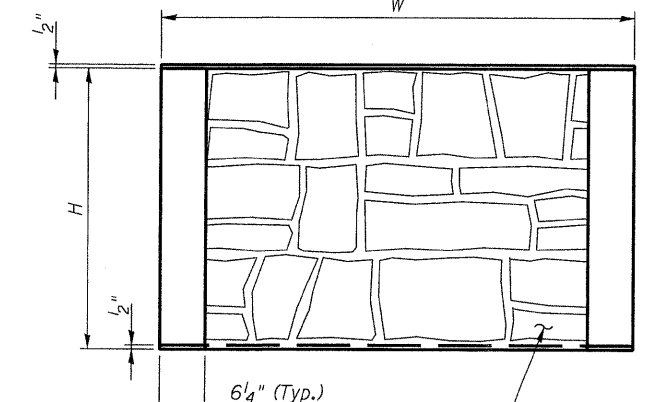
PANEL TOP VIEW



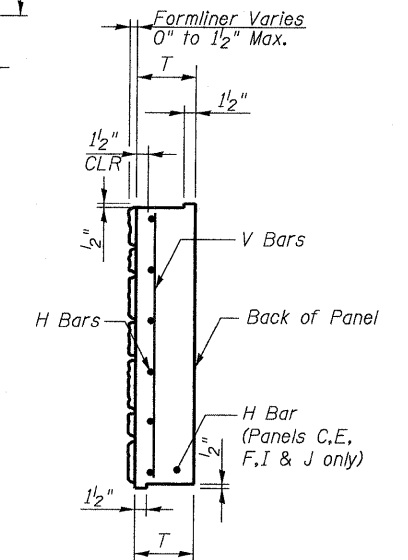
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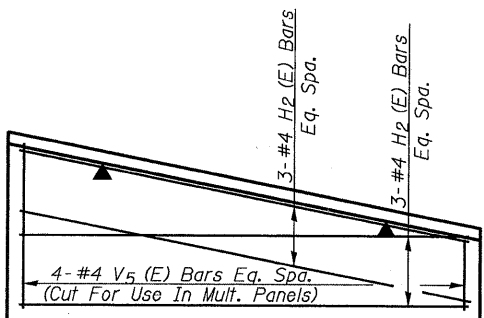
PANEL G REINFORCEMENT



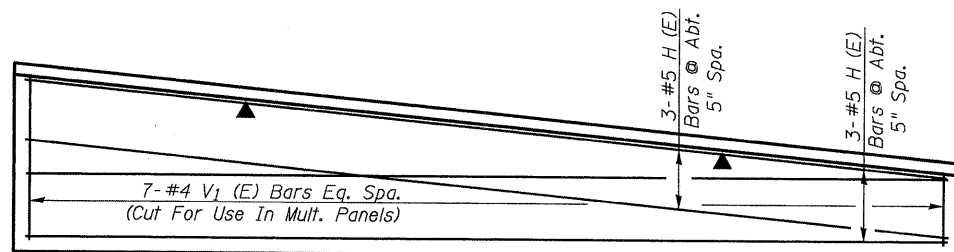
TYPICAL PANEL ELEVATION



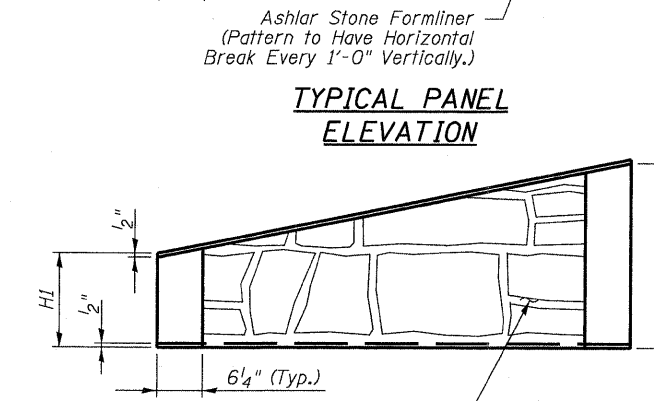
PANEL END VIEW



PANEL D REINFORCEMENT

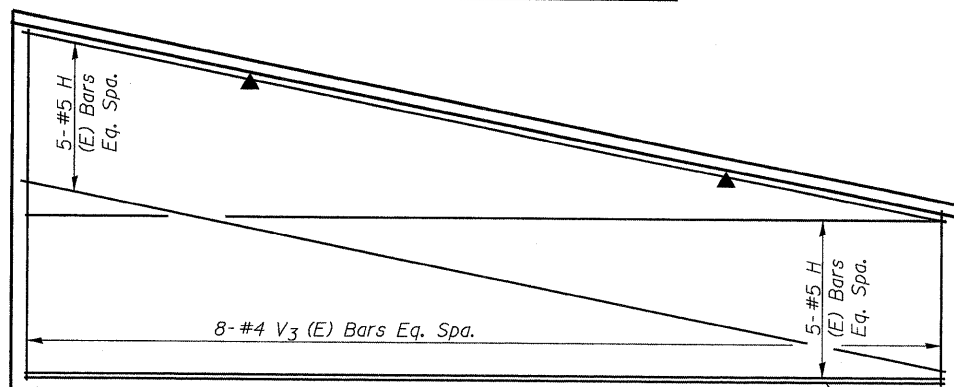


PANEL H REINFORCEMENT



SLOPED PANEL ELEVATION

(Left end low shown.
Right end low opp. hand.)
(Left end low shown.
Right end low opp. hand.)



PANEL I REINFORCEMENT

PANEL DIMENSIONS TABLE

PANEL	H	H1	H2	W	T
A	1'-11 3/4"	-	-	4'-9"	9 1/4"
B	-	11 3/4"	1'-11 3/4"	4'-9"	9 1/4"
C	2'-11 3/4"	-	-	4'-9"	9 1/4"
D	-	1'-11 3/4"	11 3/4"	4'-9"	9 1/4"
E	1'-11 3/4"	-	-	9'-9"	9 1/4"
F	2'-11 3/4"	-	-	9'-9"	9 1/4"
G	-	11 3/4"	1'-11 3/4"	9'-9"	9 1/4"
H	-	1'-11 3/4"	11 3/4"	9'-9"	9 1/4"
I	-	3'-11 3/4"	1'-11 3/4"	9'-9"	9 1/4"
J	-	4'-11 3/4"	1'-11 3/4"	9'-9"	9 1/4"

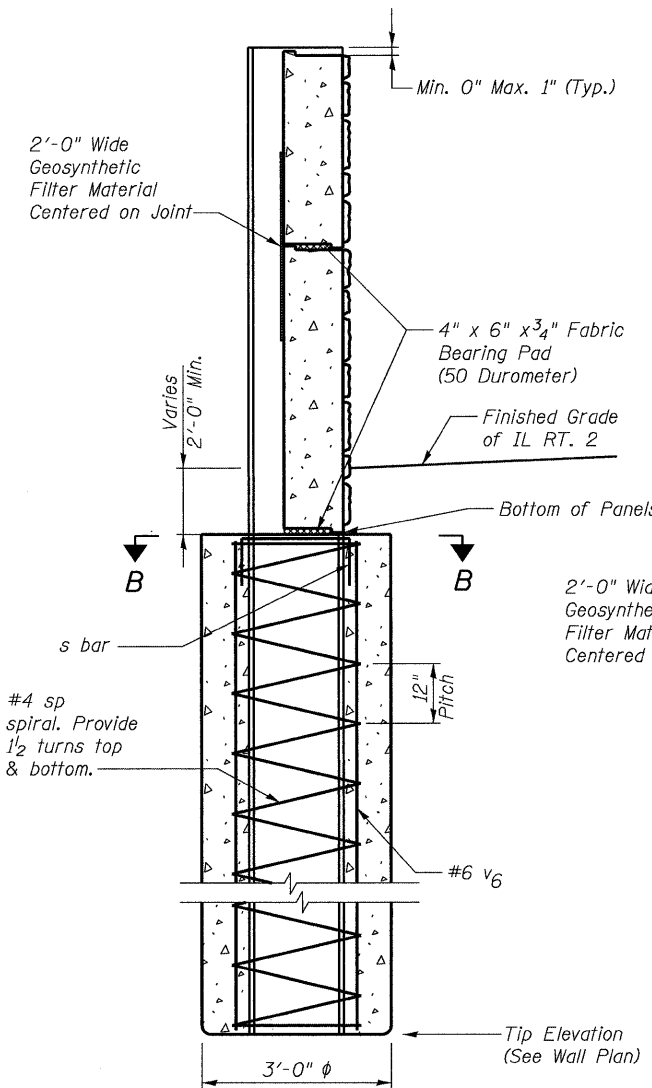
DESIGNED CTH
CHECKED DFM
DRAWN CTH
CHECKED DFM

Howard R. Green Company

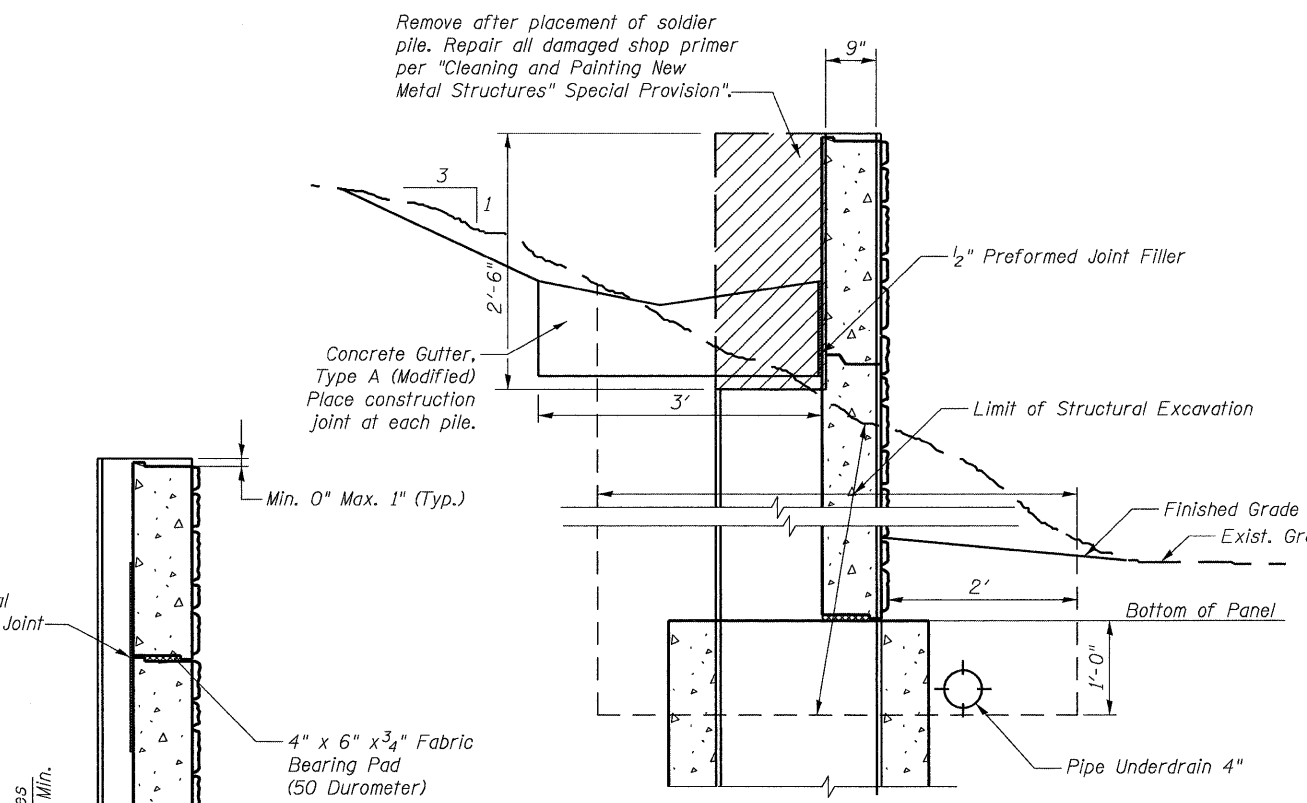
PANEL DETAILS
STRUCTURE NO. 071-7005

SHEET NO. 11 18 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 246
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

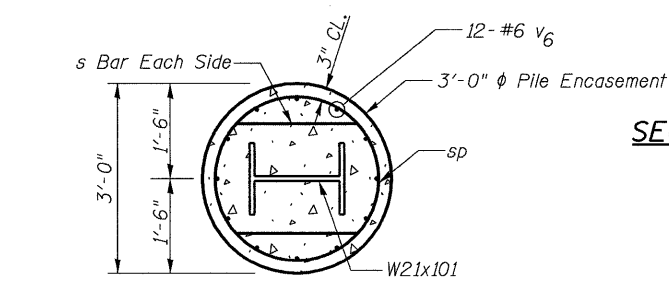
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THROUGH DRILLED PILE

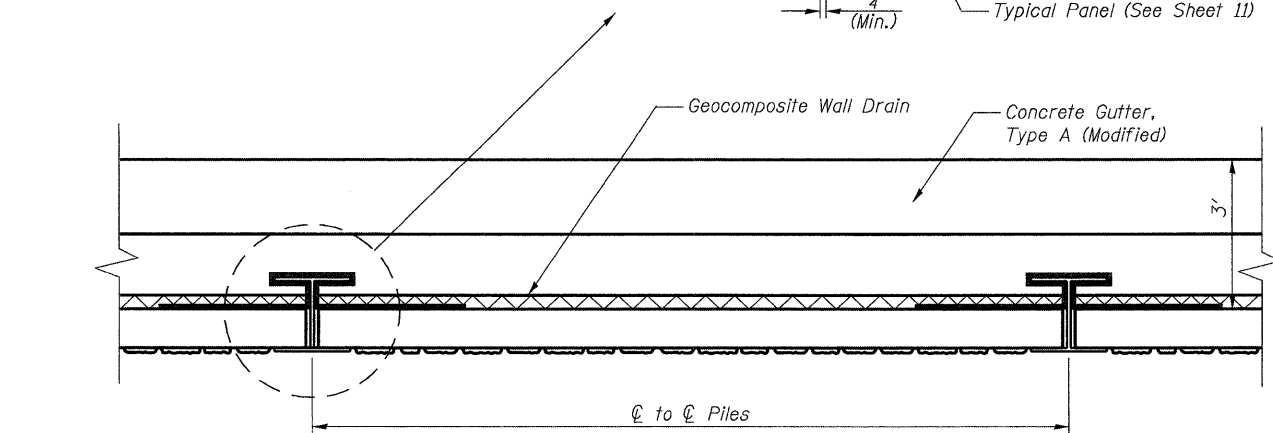


LIMIT OF STRUCTURAL EXCAVATION

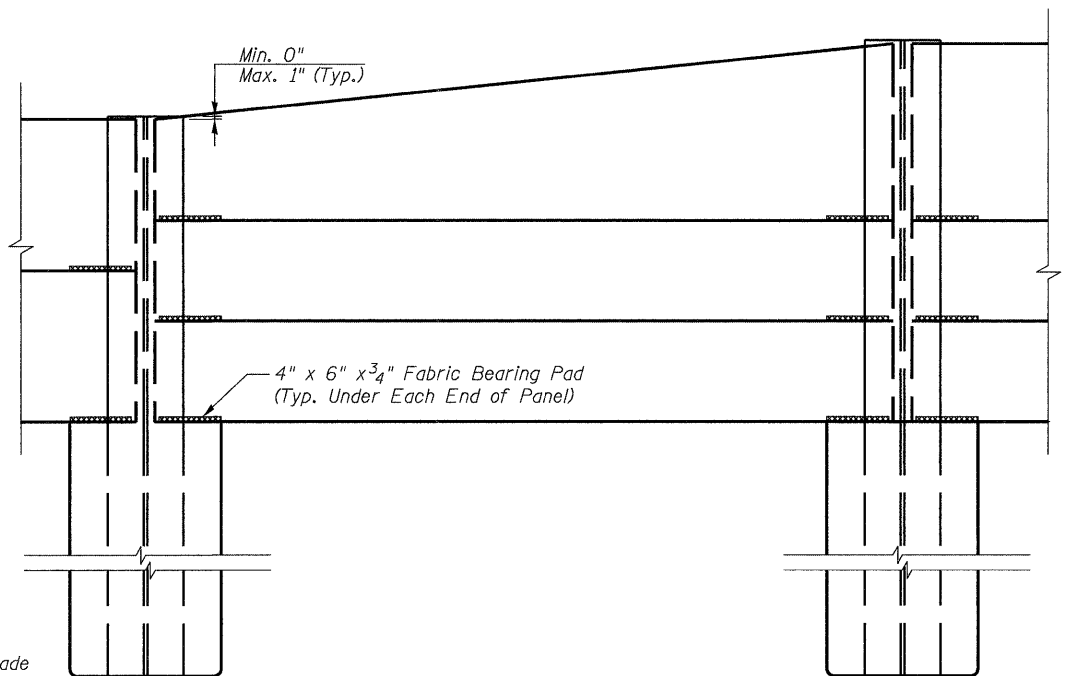


SECTION B-B

SECTION THROUGH DRIVEN PILE



PLAN

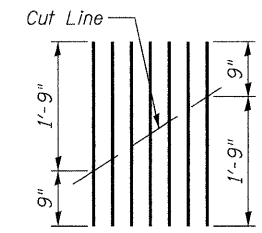


ELEVATION

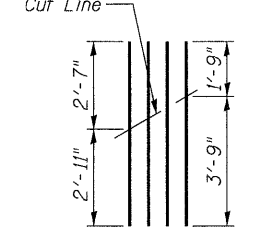
Reinforcement Quantities for information only.
All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".
Reinforcement & Concrete for panels and pile encasement are included in the pay items "Retaining Wall (Special)" or "Drilling & Setting Soldier Piles (In Soil)".

BILL OF MATERIALS***

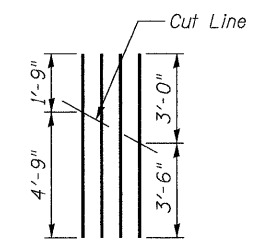
Bar	No.	Size	Length	Shape
V (E)	813	#4	1'-9"	—
V ₁ (E)	18	#4	2'-6"	—
V ₂ (E)	2327	#4	2'-9"	—
V ₃ (E)	4	#4	5'-6"	—
V ₄ (E)	4	#4	6'-6"	—
V ₅ (E)	28	#4	2'-6"	—
v ₆	516	#6	22'-10"	—
H (E)	214	#5	9'-6"	—
H ₁ (E)	1211	#6	9'-6"	—
H ₂ (E)	2382	#4	4'-6"	—
sp	43	#4	22'-10"	⋈
s	85	#4	3'-10"	┌
Reinforcement Bars, Epoxy Coated		Pounds	31,860	
Reinforcement Bars		Pounds	20,400	
Concrete Structures		Cu. Yd.	319.6	



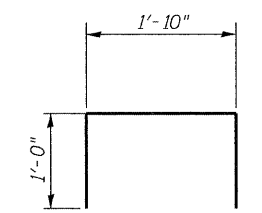
V₁ (E) BARS



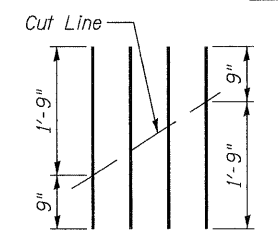
V₃ (E) BARS



V₄ (E) BARS



s BARS



V₅ (E) BARS

WALL DETAILS
STRUCTURE NO. 071-7005

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

**Length is height for spiral.
***For information only.

SHEET NO. 12 18 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 247
	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 10 SW. SEC. TWP. 24N. RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. <u>B-3a</u>					Groundwater Elev.:				
Station <u>872+00</u>					First Encounter <u>874.8</u> ft				
Offset <u>13.00ft Lt Cl</u>					Upon Completion <u>Wash</u> ft				
Ground Surface Elev. <u>684.30</u> ft	(ft)	(/6")	(tsf)	(%)	After Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)
LOOSE brown dirty SAND					MEDIUM tan SANDY GRAVEL (continued)	663.30	6		
							9		
582.30					MEDIUM tan SANDY GRAVEL		8		
							9		
680.80						680.80	13		
LOOSE/MEDIUM tan clean medium coarse SAND					Wash		5		
					MEDIUM tan SANDY GRAVEL		6		
678.30						658.30	11		
					MEDIUM tan clean medium coarse SAND		2		
							4		
675.80						655.80	9		
LOOSE tan clean medium coarse SAND					Wash		4		
					MEDIUM tan clean medium coarse SAND with medium GRAVEL		8		
673.30						653.30	12		
					End of Boring				
670.80									
Wash									
LOOSE tan clean medium coarse SAND									
668.30									
665.80									
MEDIUM tan SANDY GRAVEL									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, I.L. 2. 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 28 NW. SEC. TWP. 24N. RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. <u>B-4a</u>					Groundwater Elev.:				
Station <u>871+06</u>					First Encounter <u>673.8</u> ft				
Offset <u>13.00ft Lt Cl</u>					Upon Completion <u>Wash</u> ft				
Ground Surface Elev. <u>683.80</u> ft	(ft)	(/6")	(tsf)	(%)	After Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)
LOOSE brown dirty SAND					Wash		1		
					LOOSE tan clean medium coarse SAND	662.30	2		
							5		
681.30					wash		5		
					MEDIUM tan clean medium coarse SAND		6		
679.80						659.80	6		
LOOSE tan fine SAND					Wash		3		
					Same as above		5		
677.30						657.30	12		
					Wash		1		
					MEDIUM tan clean medium coarse SAND with medium GRAVEL		6		
674.80						654.80	9		
LOOSE tan clean medium coarse SAND					Wash		7		
					MEDIUM tan clean medium coarse SAND with medium GRAVEL		9		
672.30						652.30	10		
					End of Boring				
669.80									
LOOSE tan clean medium coarse SAND									
667.30									
664.80									
Wash									
MEDIUM tan clean medium coarse SAND									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

BORING LOGS
STRUCTURE NO. 071-7005

SHEET NO. 14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	249
18 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2, 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Rockvale Twp. -28 NW, SEC. TWP. 24N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. _____
Station _____
BORING NO. B-5e
Station 870+00
Offset 13.00R LL CL
Ground Surface Elev. 683.30 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
91.00	Surface Water Elev.	91.00			
	Stream Bed Elev.				
673.3	Groundwater Elev.: First Encounter	673.3			
	Upon Completion				
	Wash				
	After Hrs.				
680.80	LOOSE tan SAND	4			
	MEDIUM tan clean medium coarse SAND	8			
		12			
679.30	Wash Same as above	6			
		8			
		10			
678.80	LOOSE tan clean medium coarse SAND	2			
	Wash LOOSE tan fine SAND	3			
		4			
674.30	MEDIUM tan clean medium coarse SAND	6			
		7			
		8			
671.80	LOOSE tan clean medium coarse SAND	1			
	Wash MEDIUM tan clean medium coarse SAND with medium GRAVEL	3			
		4			
669.30	End of Boring	7			
669.30					
666.80	MEDIUM tan clean medium coarse SAND	2			
		5			
		7			
664.30	Wash LOOSE tan clean medium coarse SAND with medium GRAVEL	1			
		3			
		7			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-98)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92064-86 Retaining wall, IL 2, 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Rockvale Twp. 10SW, SEC. TWP. 24N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. _____
Station _____
BORING NO. B-6e
Station 869+00
Offset 13.00R LL CL
Ground Surface Elev. 681.70 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
91.00	Surface Water Elev.	91.00			
	Stream Bed Elev.				
671.7	Groundwater Elev.: First Encounter	671.7			
	Upon Completion				
	Wash				
	After Hrs.				
679.20	LOOSE dirty brown dirty SAND	2			
	MEDIUM tan clean medium coarse SAND with medium GRAVEL	6			
		8			
677.70	Same as above	4			
		7			
		13			
675.20	LOOSE brown dirty SAND	1			
	Wash MEDIUM tan clean medium coarse SAND with medium GRAVEL	2	14.0		
		3			
672.70	MEDIUM tan SANDY GRAVEL	8			
		10			
		15			
670.20	LOOSE tan clean medium coarse SAND	2			
	MEDIUM tan clean medium coarse SAND	3			
		5			
667.70	End of Boring	8			
667.70					
665.20	LOOSE tan clean medium coarse SAND	1			
		2			
		6			
662.70	LOOSE/MEDIUM tan clean medium coarse SAND	0			
		3			
		7			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-98)

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

BORING LOGS
STRUCTURE NO. 071-7005

SHEET NO. 15	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 250
18 SHEETS	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Page 1 of 1

Date 5/2/08

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2, 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 10SW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
B-7a 868+00 19.00ft Lt CL 880.70									
VERY LOOSE dark brown SANDY LOAM			0.2 P	17.0	659.70	4	7		
					678.70				
					677.20				
STIFF brown LOAM			1.2 B	24.0	654.70	7	12		
					674.70				
VERY SOFT brown SANDY LOAM			0.2 P	20.0	652.20	5	8		
					672.20				
VERY LOOSE brown dirty SAND					649.70	6	9		
					669.70				
					667.20				
LOOSE tan clean medium coarse SAND					664.70				
					662.20				
MEDIUM tan clean medium coarse SAND with medium GRAVEL									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 5/1/08

ROUTE FA 742 DESCRIPTION P92-064-86 Retaining wall, IL 2, 2.8 m. N. of Mud Creek Road LOGGED BY W. Garza
SECTION 37 RS-3 LOCATION Rockvale Twp. - 10 SW, SEC. TWP. 24N, RNG. 10E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
B-8a 867+00 15.00ft Lt CL 881.10									
SOFT dark brown SANDY LOAM			0.3 P	17.0	680.10	11	11		
					679.10				
					677.10				
LOOSE brown dirty SAND			2		675.10	15	12		
					672.60				
VERY SOFT tan SILTY CLAY LOAM			0.2 P	25.0	650.10	8	8		
					669.60				
VERY LOOSE tan clean medium coarse SAND					667.60				
					665.10				
Wash MEDIUM tan clean medium coarse SAND					662.60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

**BORING LOGS
STRUCTURE NO. 071-7005**

SHEET NO. 16	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 251
18 SHEETS	CONTRACT NO. 64E17			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

Benchmark: Headwall, Existing Sta. 1042+80.64, 22.47' LT.
 Proposed Sta. 1042+24.28, 48.89' LT.
 Elev. 687.60

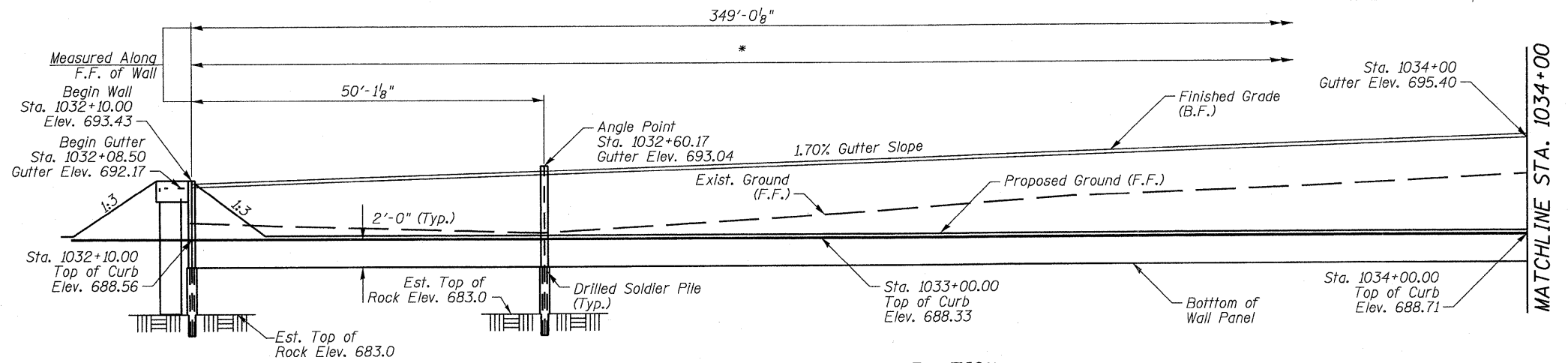
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

* For top of wall elevation, pile section, spacing and tip elevation see sheets 5 and 6 of 11. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

Existing Structure: None

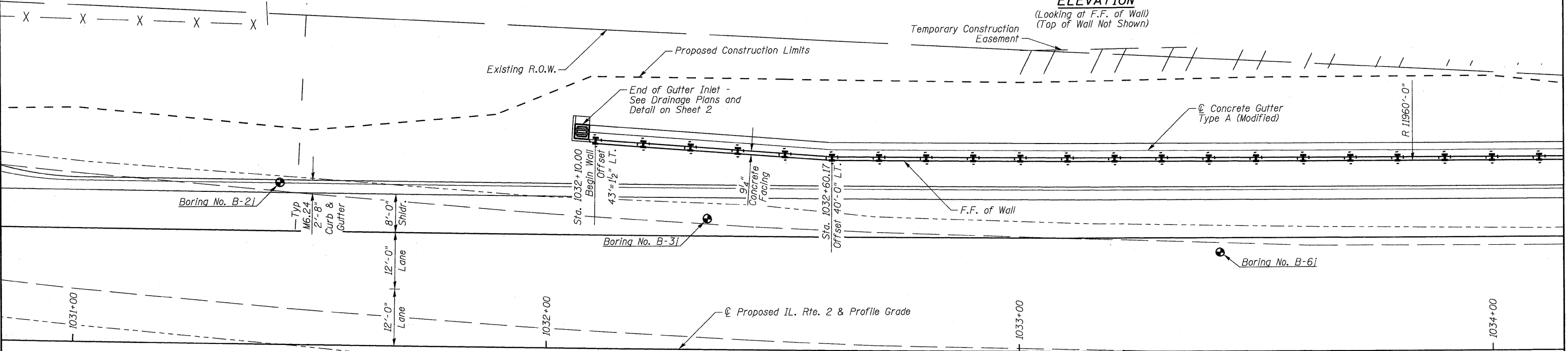
SHEET INDEX

NO.	DESCRIPTION
1-2	GENERAL PLAN
3	GENERAL NOTES & TOTAL BILL OF MATERIALS
4	WALL SECTION
5-6	WALL PLAN
7	PANEL DETAILS
8	WALL DETAILS
9-11	BORING LOGS



ELEVATION

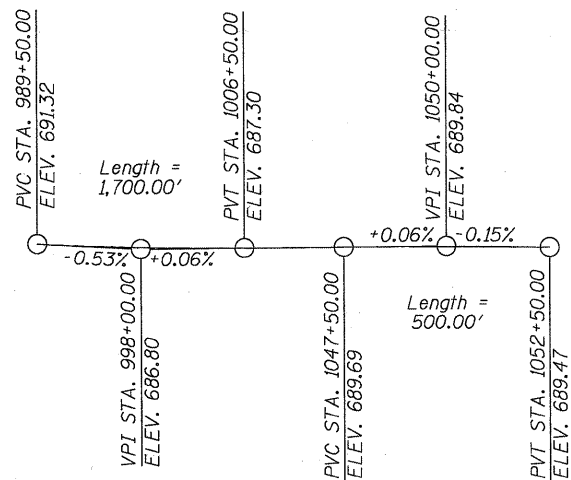
(Looking at F.F. of Wall)
 (Top of Wall Not Shown)



PLAN

CURVE DATA
 (IL. Rte. 2)

P.I. STA = 1037+32.46
 $\Delta = 9^\circ 08' 41''$ (L.T.)
 $D = 0^\circ 28' 39''$
 $R = 12,000.00'$
 $T = 959.68'$
 $L = 1,915.28'$
 $E = 38.31'$
 P.C. STA = 1027+72.78
 P.T. STA = 1046+88.06



PROFILE GRADE

(Along \odot Proposed IL. Rte. 2)

NOTES

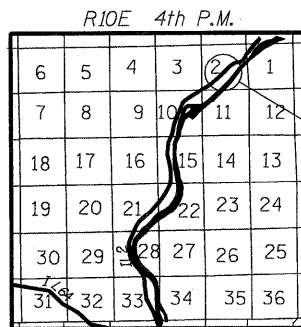
Stations and Offsets are given from the \odot Proposed IL. Rte. 2 at the front face of wall unless otherwise noted.

See sheet 3 of 11 for Bill of Materials.

F.F. = Front Face
 B.F. = Back Face



David F. Maxwell, S.E.
 Date: 3/17/10
 My registration expires November 30, 2010.



LOCATION SKETCH

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Relph E. Anderson, P.E.
 ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION

IL. RTE. 2

FAP 742 SECTION 37R-4

OGLE COUNTY

RETAINING WALL G

STA. 1032+10.00 TO STA. 1035+60.00

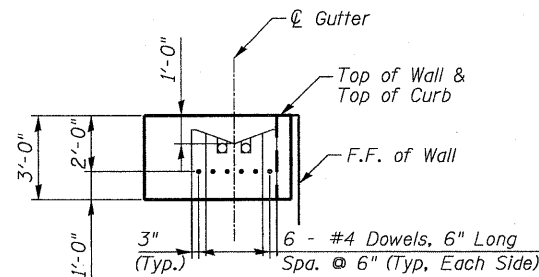
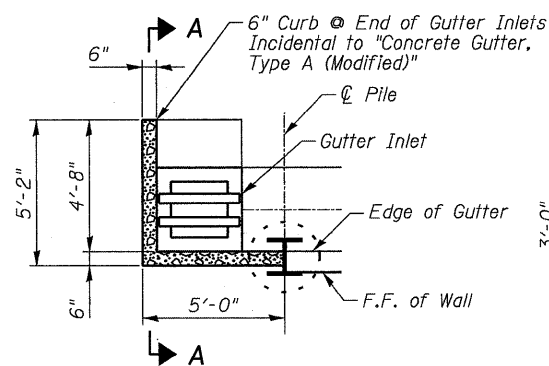
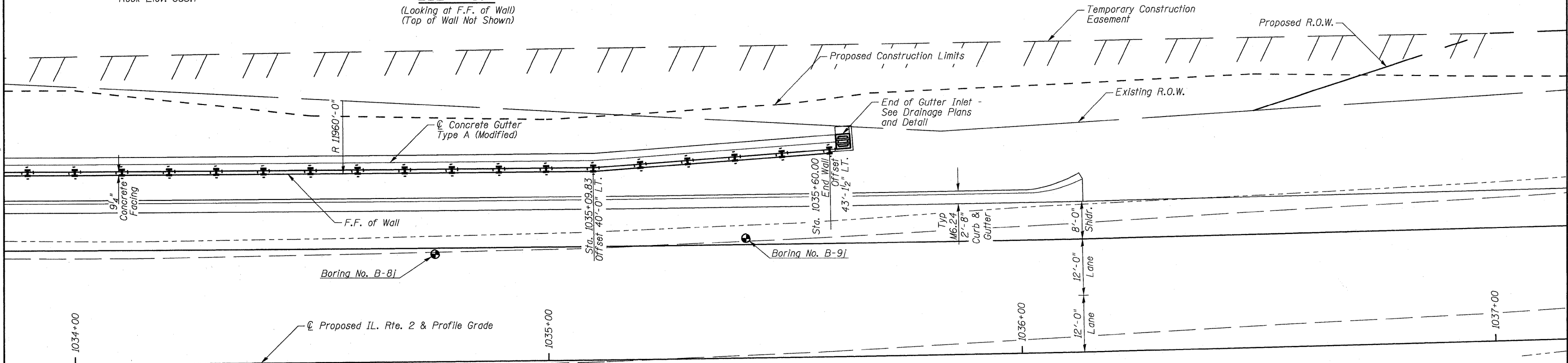
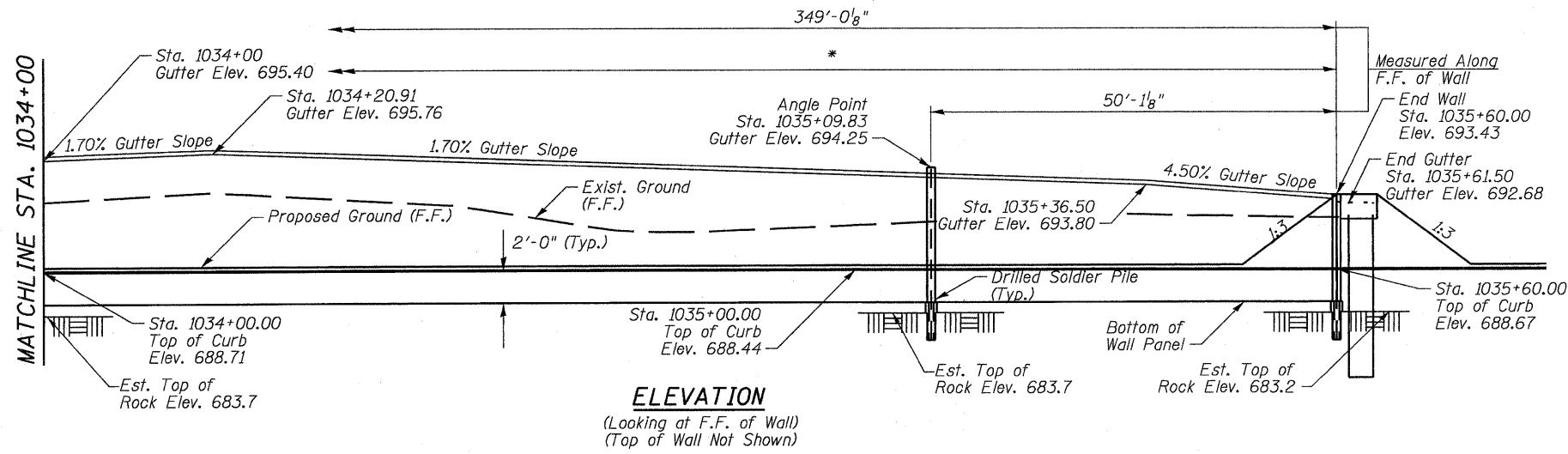
STRUCTURE NO. 071-7006

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	742	37R-4	OGLE	867	254
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* For top of wall elevation, pile section, spacing and tip elevation see sheets 5 and 6 of 11. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.



End @ Sta. 1032+10 Shown Here
End @ Sta. 1035+60 Opp. Hand

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

GENERAL PLAN & ELEVATION
STRUCTURE NO. 071-7006

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37R-4	OGLE	867	255
11 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications & Supplements

DESIGN STRESSES

Precast Units
f_y = 60,000 psi
f'c = 5,000 psi (Precast)

Field Units
f_y = 60,000 psi (Reinforcement)
f'c = 50,000 psi (AASHTO M270 Gr. 50)

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	QTY.
Structure Excavation	Cu. Yd.	291.3
Name Plates	Each	1
Pipe Underdrains for Structures 4"	Foot	349
Concrete Gutter, Type A (Modified)	Foot	349
Furnishing Soldier Piles (HP Section)	Foot	649
Geocomposite Wall Drain	Sq. Yd.	299
Drilling & Setting Soldier Piles (In Soil)	Cu. Ft.	491
Drilling & Setting Soldier Piles (In Rock)	Cu. Ft.	1099
Retaining Wall (Special)	Sq. Ft.	3170
Staining Concrete Structures	Sq. Yd.	292

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.

Concrete shall be painted in accordance with special provisions. The color shall be selected by the engineer.

Exposed steel pile shall be painted with an inorganic zinc rich primer/ acrylic/acrylic paint system for shop and field painting except for portions located more than 4 feet below the finished grade at the front face of the wall. The finished coat shall be only applied to the exposed surfaces of the steel piles after the concrete panels have been installed. The color of the final finish coat shall be approved by the Resident Engineer and Project Engineer. See special provisions for Cleaning and Painting New Metal Structures.

After placement of bottom precast panel, fill must be placed equally on both sides in order to continue construction of wall and place additional panels. Backfill at front face of wall must be at finished grade.

All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".

Installation of the name plate shall be in accordance with Highway Standard 515001-03 and Article 515 of the Standard Specifications. The location of the name plate to be determined by the Resident Engineer.

Method used for cutting piles to their final length shall result in a smooth and neat appearance. Jagged edges shall not be acceptable.

LEFT STATION 1032+10 TO 1035+60
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 742 SEC. 37R-4
STRUCTURE NO. 071-7006

NAME PLATE
See Std. 515001

GENERAL NOTES & TOTAL BILL OF MATERIALS
STRUCTURE NO. 071-7006

DESIGNED CTH
CHECKED DFM
DRAWN CTH
CHECKED DFM

SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	742	37R-4	OGLE	867	256
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

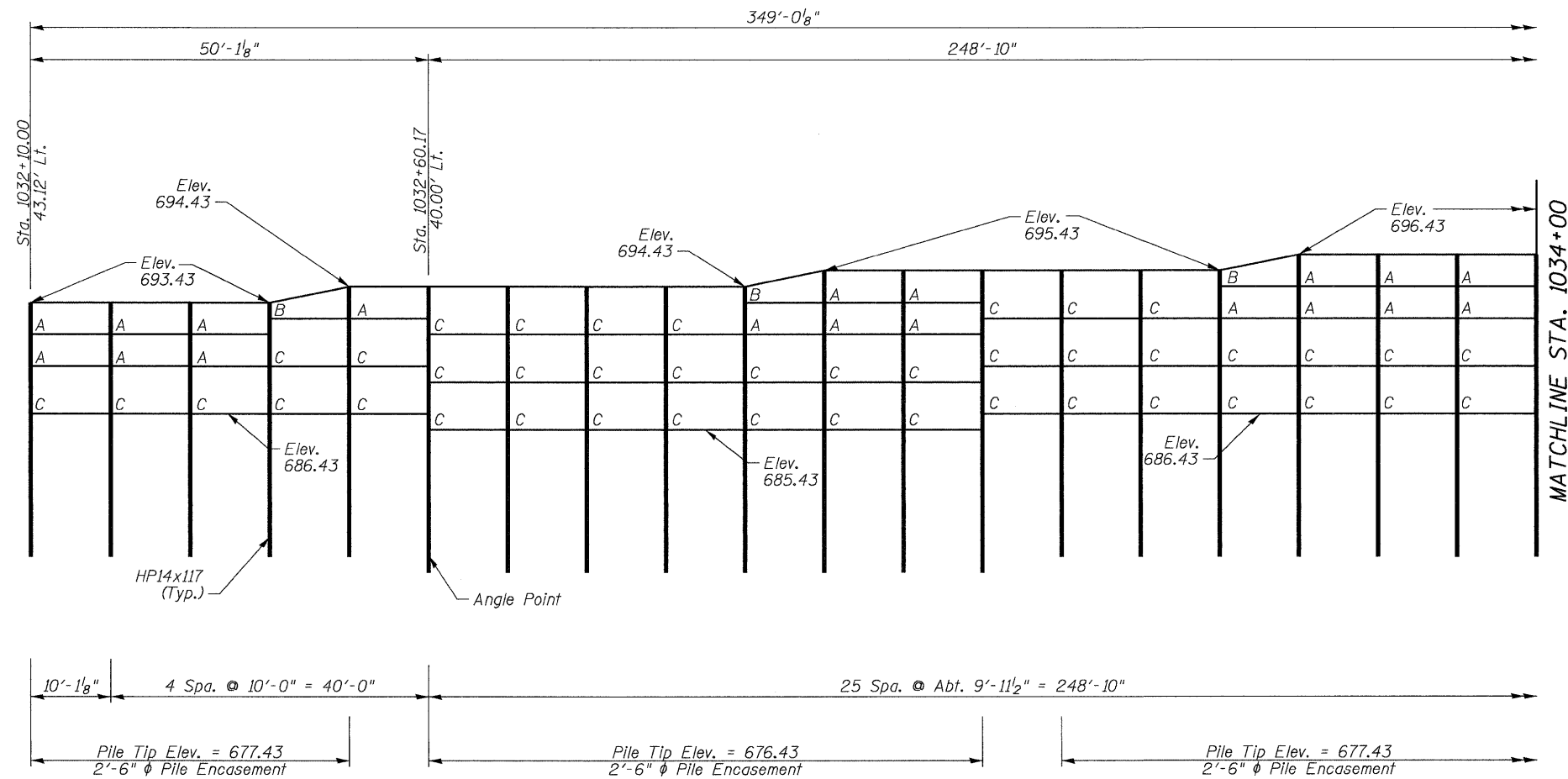
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	19	380
B	1.5 x 10 (sloped)	3	45
C	3 x 10	42	1260
D	1.5 x 10 (sloped)	0	0
Sheet 5 Total			1685

For actual Panel sizes, Reinforcement, and Finish see sheet 7 of 11.

See sheet 8 of 11 for drilled pile details.



WALL PLAN

**WALL PLAN
STRUCTURE NO. 071-7006**

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	742	37R-4	OGLE	867	258
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

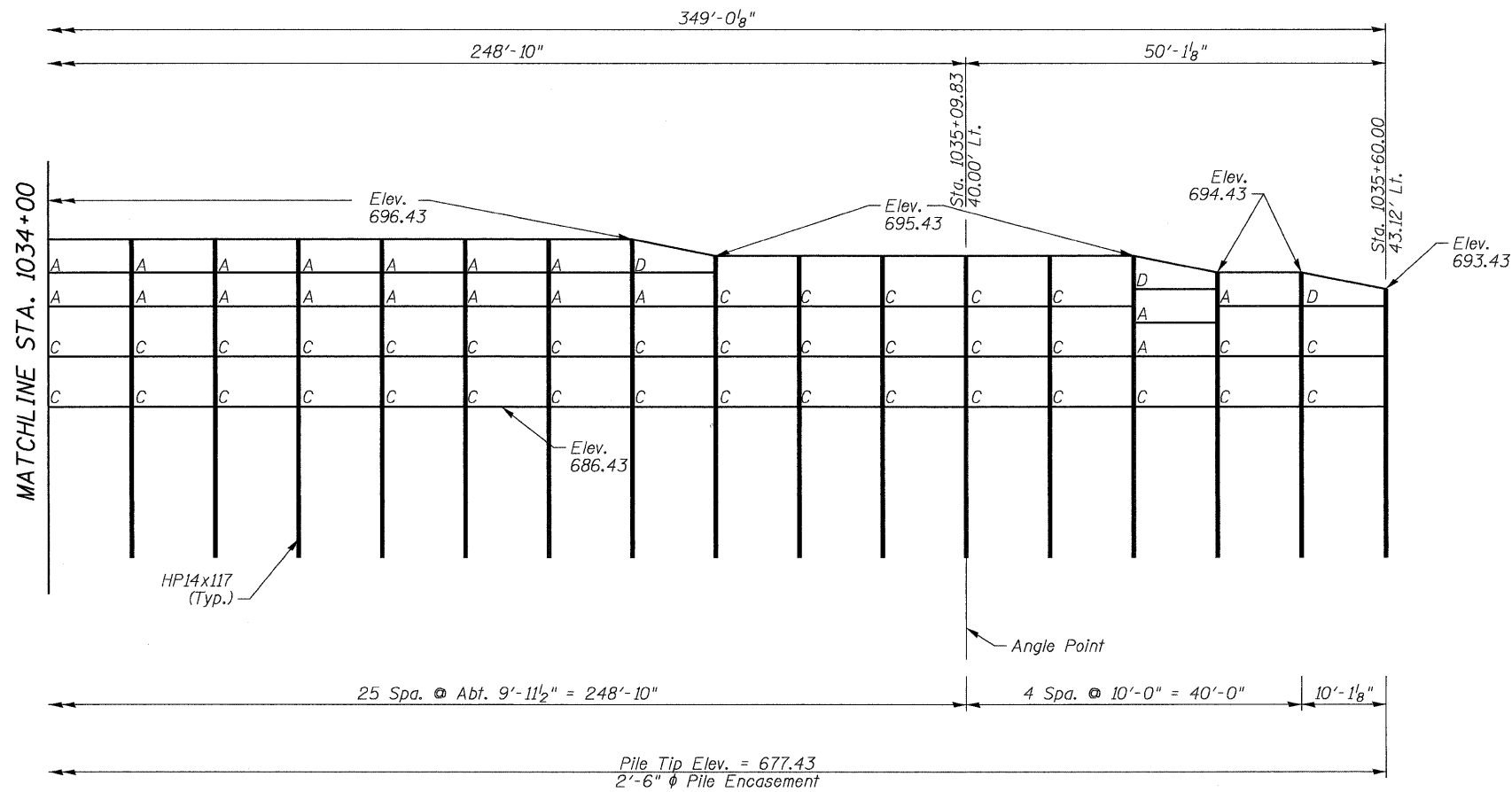
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL SIZE TABLE

PANEL	NOMINAL SIZE	NO.	SF PANELS
A	2 x 10	18	360
B	1.5 x 10 (sloped)	0	0
C	3 x 10	36	1080
D	1.5 x 10 (sloped)	3	45
Sheet 6 Total		57	1485

For actual Panel sizes, Reinforcement, and Finish see sheet 7 of 11.

See sheet 8 of 11 for drilled pile details.



WALL PLAN

WALL PLAN
STRUCTURE NO. 071-7006

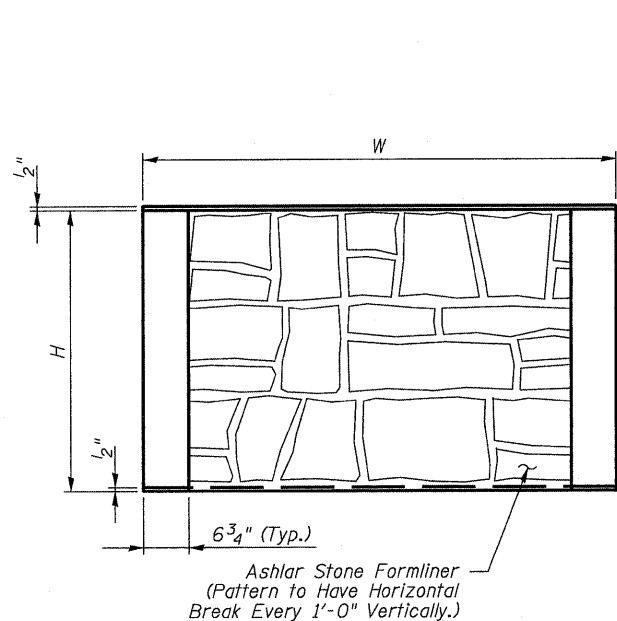
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CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	742	37R-4	OGLE	867	259
			CONTRACT NO. 64E17		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

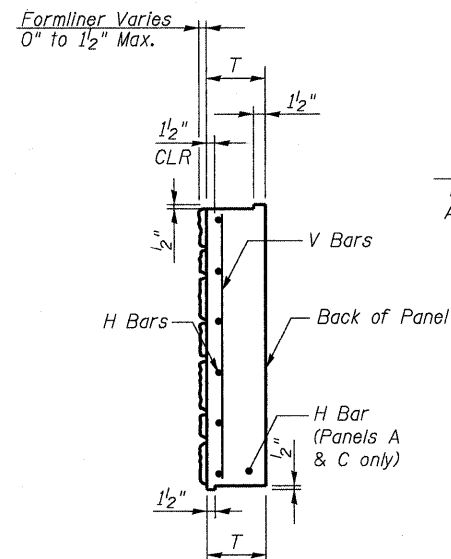
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PANEL DIMENSIONS TABLE

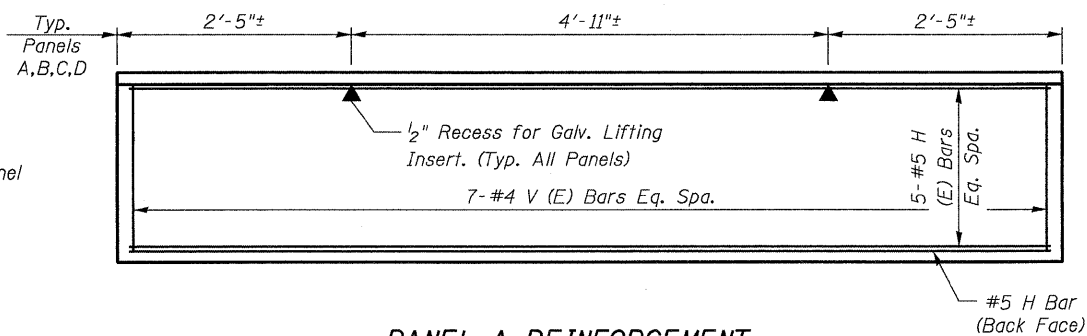
PANEL	H	H1	H2	W	T
A	1'-11 ³ / ₄ "	-	-	9'-9"	9 ¹ / ₄ "
B	-	11 ³ / ₄ "	1'-11 ³ / ₄ "	9'-9"	9 ¹ / ₄ "
C	2'-11 ³ / ₄ "	-	-	9'-9"	9 ¹ / ₄ "
D	-	1'-11 ³ / ₄ "	11 ³ / ₄ "	9'-9"	9 ¹ / ₄ "
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-



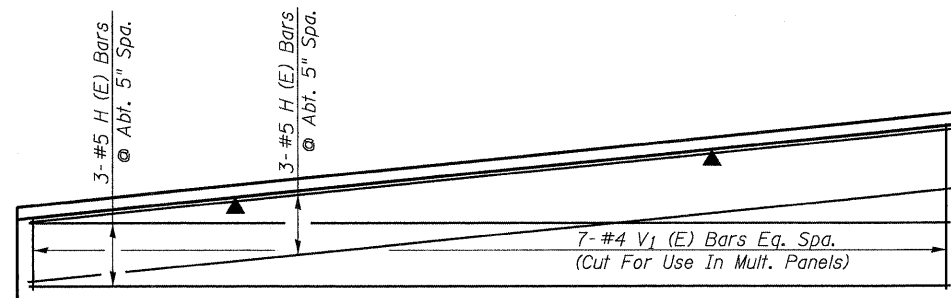
TYPICAL PANEL
ELEVATION



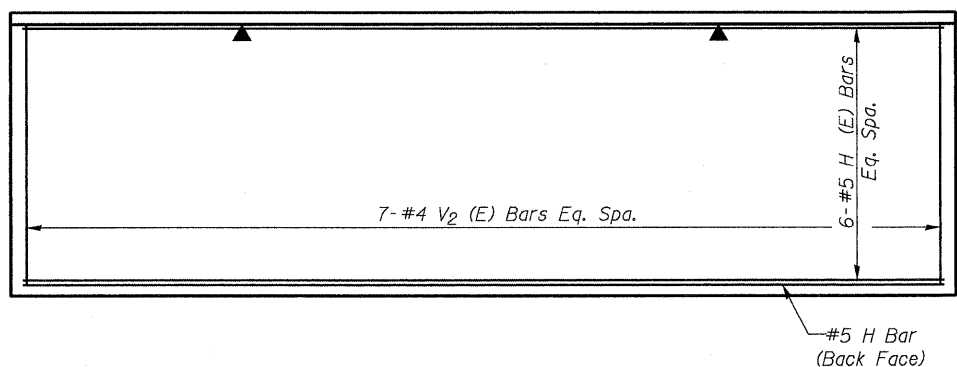
PANEL END VIEW



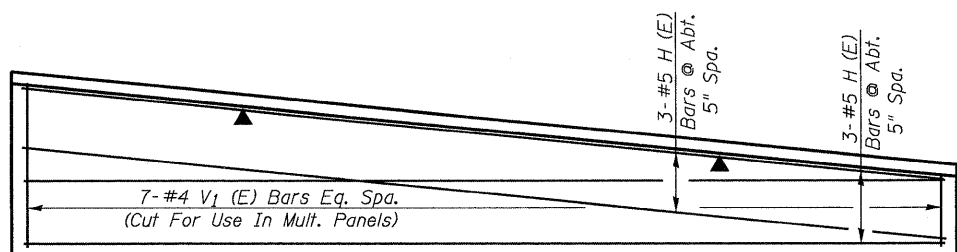
PANEL A REINFORCEMENT



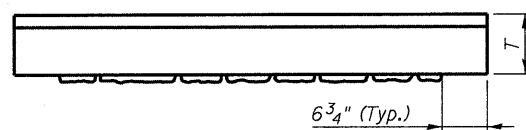
PANEL B REINFORCEMENT



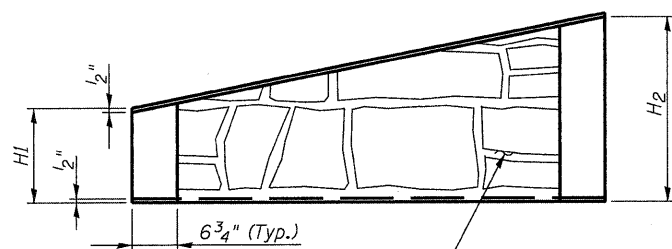
PANEL C REINFORCEMENT



PANEL D REINFORCEMENT



PANEL TOP VIEW



SLOPED PANEL
ELEVATION

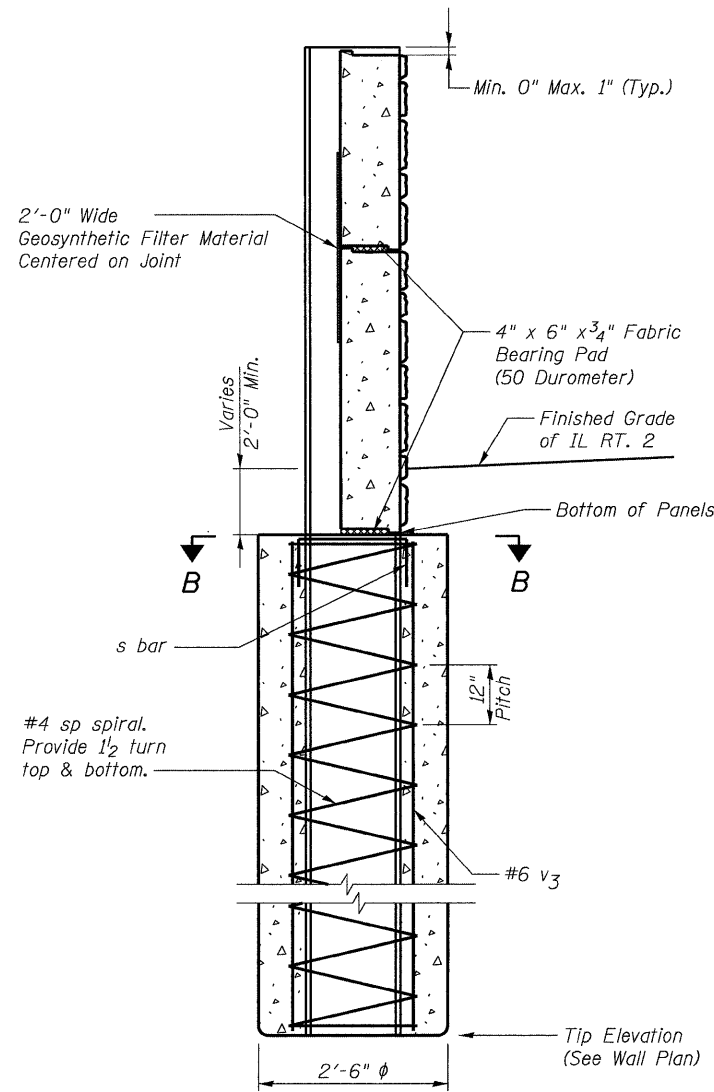
(Left end low shown.
Right end low opp. hand.)

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

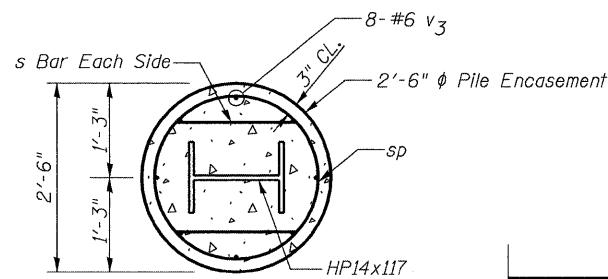
PANEL DETAILS
STRUCTURE NO. 071-7006

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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11 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

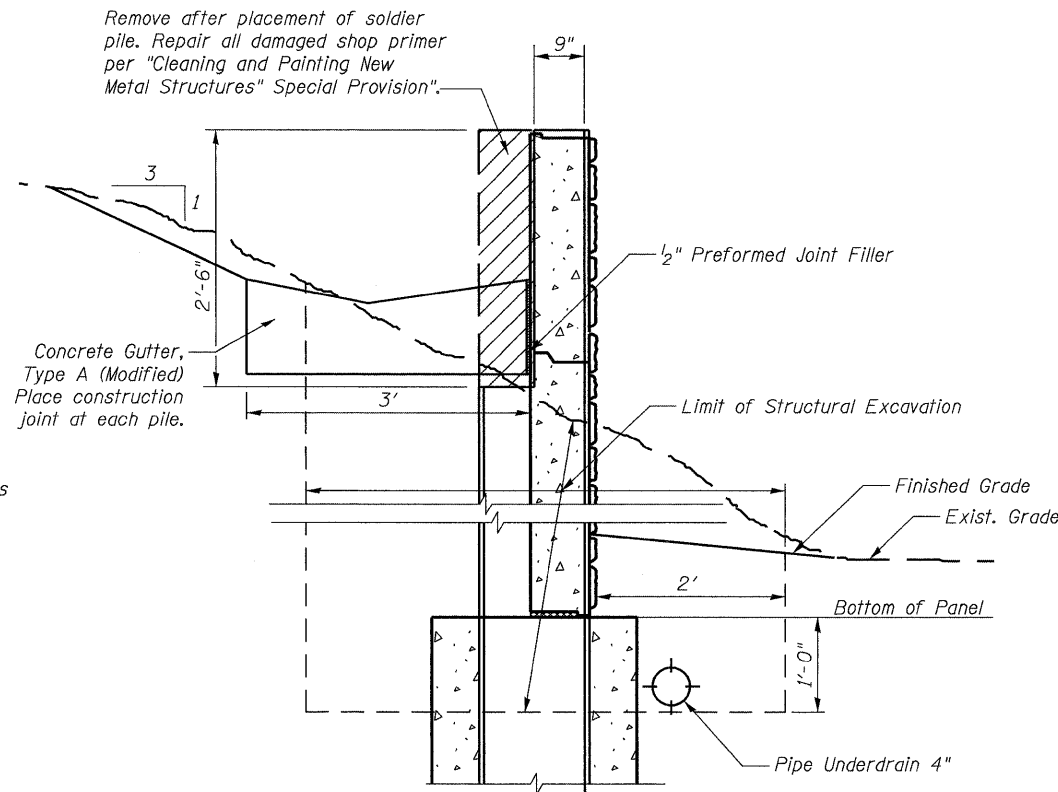
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



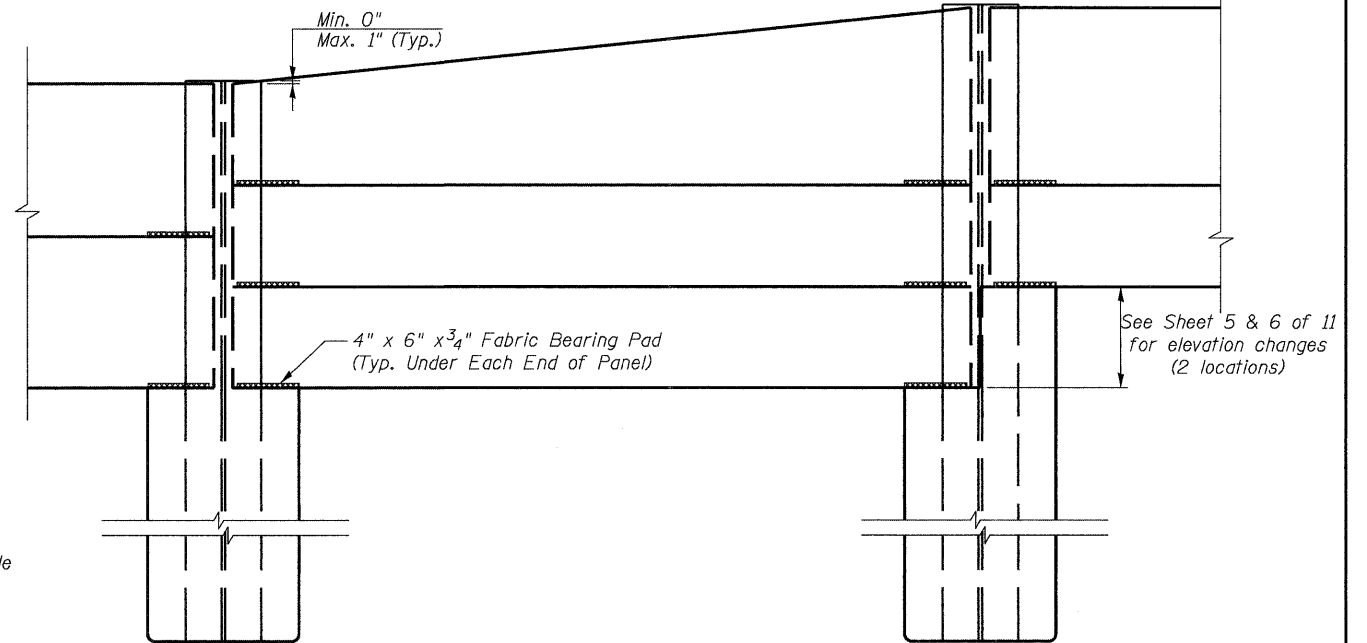
SECTION THROUGH PILE



SECTION B-B



LIMIT OF STRUCTURAL EXCAVATION

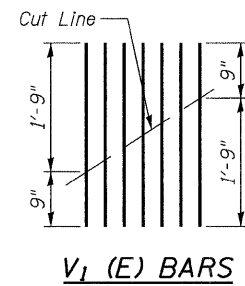


ELEVATION

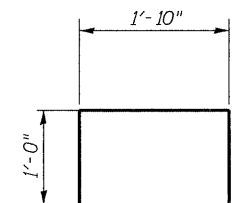
Reinforcement Quantities for information only.
All form liners required for the precast concrete panels are included in the pay item "Retaining Wall (Special)".
Reinforcement & Concrete for panels and pile encasement are included in the pay items "Retaining Wall (Special)", "Drilling & Setting Soldier Piles (In Soil)" or "Drilling & Setting Soldier Piles (In Rock)".

BILL OF MATERIALS ***

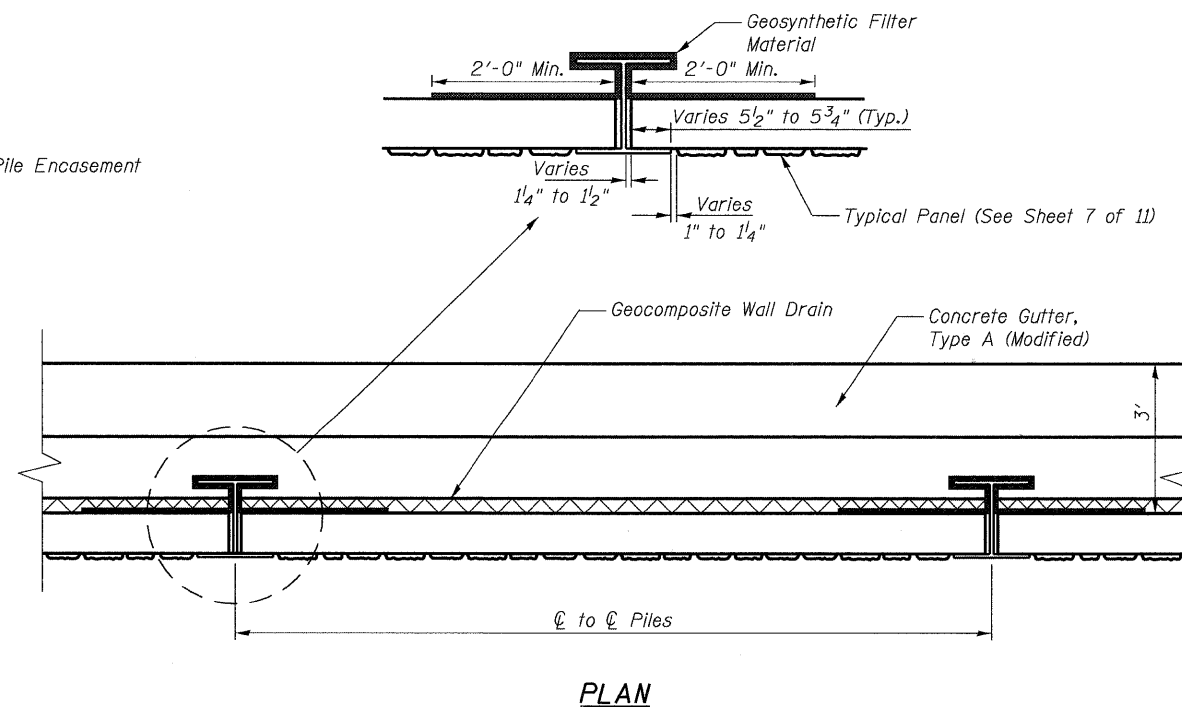
Bar	No.	Size	Length	Shape
V (E)	259	#4	1'-9"	—
V ₁ (E)	21	#4	2'-6"	—
V ₂ (E)	546	#4	2'-9"	—
V ₃	288	#6	8'-6"	—
H (E)	804	#5	9'-6"	—
** sp	36	#4	8'-6"	⌘
s	70	#4	3'-10"	┌
Reinforcement Bars, Epoxy Coated		Pounds	9310	
Reinforcement Bars		Pounds	5750	
Concrete Structures		Cu. Yd.	87.5	



V₁ (E) BARS



s BARS



PLAN

DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

**Length is height for spiral.
***For information only.

WALL DETAILS
STRUCTURE NO. 071-7006

SHEET NO. 8 11 SHEETS	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 261
	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 IL 2 Retaining Wall, .4 m. N. of Townline Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Byron Twp. - 38 SW, SEC. TWP. 25N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-2j
Station 1032+00
Offset 14.00R Lt CL
Ground Surface Elev. 687.10 ft

DEPTH (ft) (ft) (ft) (%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	(ft)	(ft)	(%)	DESCRIPTION
686.10	1			MEDIUM brown SILTY CLAY LOAM
	2	0.5	28.0	
	3	B		
683.10				
	9			MEDIUM tan weathered LIMESTONE
	15			
681.10	8			
	28			VERY DENSE tan weathered LIMESTONE
	35			
678.60	42			
	00/10			VERY DENSE tan weathered LIMESTONE
676.10				End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 742 DESCRIPTION P92-064-86 IL 2 Retaining Wall, .4 m. N. of Townline Road LOGGED BY W. Garza

SECTION 37 RS-3 LOCATION Byron Twp. - 38 SW, SEC. TWP. 25N, RNG. 10E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-3j
Station 1032+01
Offset 13.00R Lt CL
Ground Surface Elev. 687.40 ft

DEPTH (ft) (ft) (ft) (%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	(ft)	(ft)	(%)	DESCRIPTION
685.40	0.6	15.0		MEDIUM brown SILTY CLAY LOAM
	P			
685.40	0			SOFT brown SILTY CLAY LOAM
	1	0.3	29.0	
	3	P		
683.40				
	1			VERY DENSE tan weathered LIMESTONE
	2			
680.90	100/3			
				End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

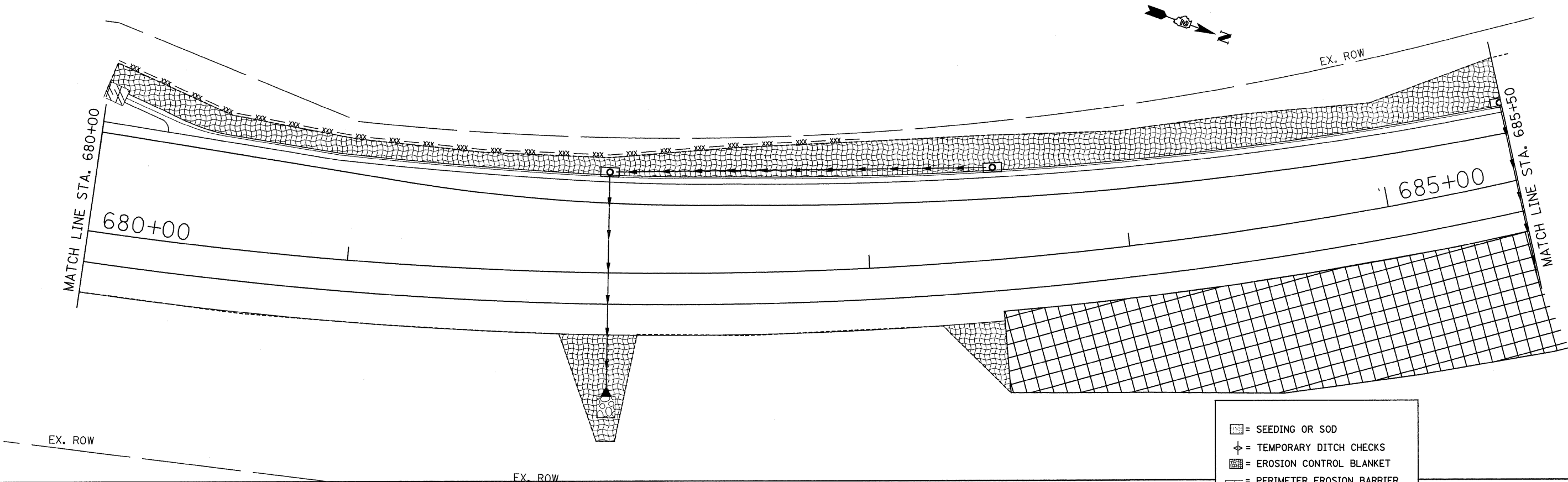
DESIGNED	CTH
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

Howard R. Green Company

BORING LOGS
STRUCTURE NO. 071-7006

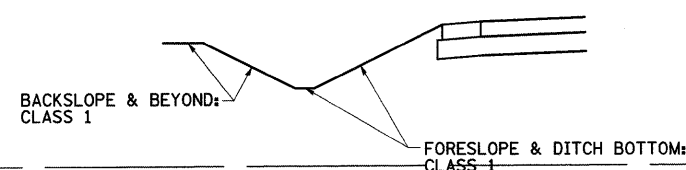
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	742	37R-4	OGLE	867	262
11 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

EROSION CONTROL DETAILS

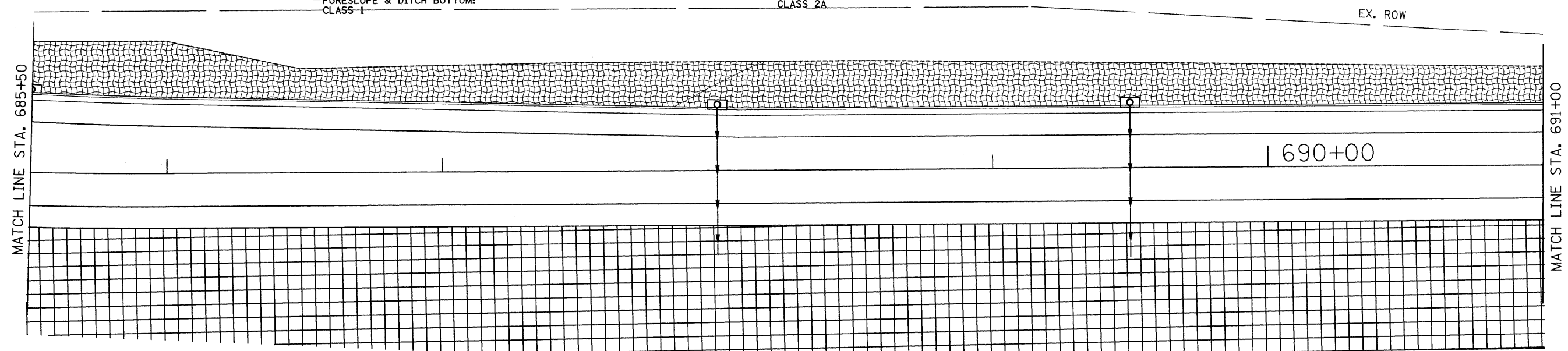
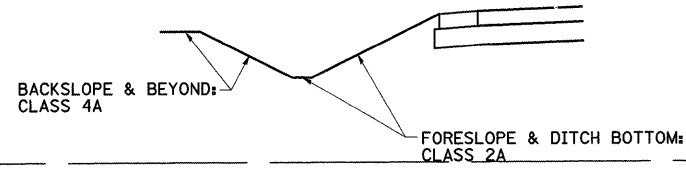


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)



SEEDING DETAIL



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




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

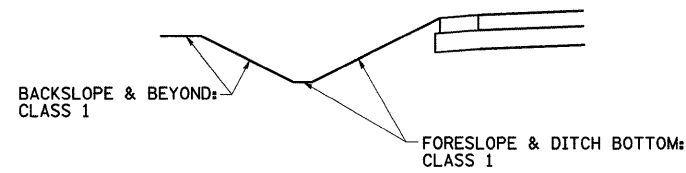
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

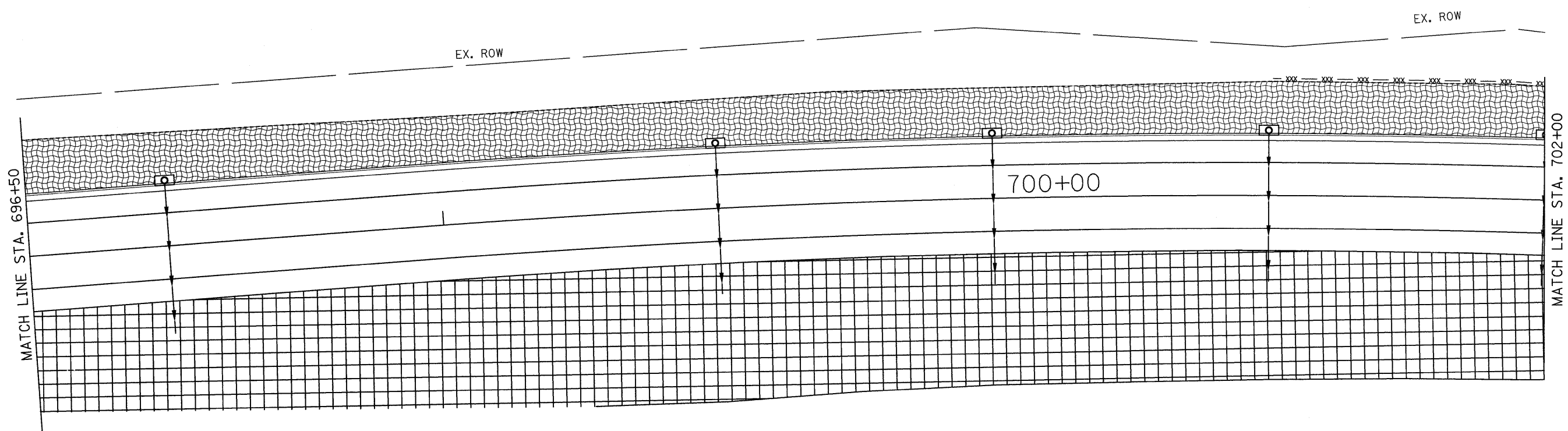
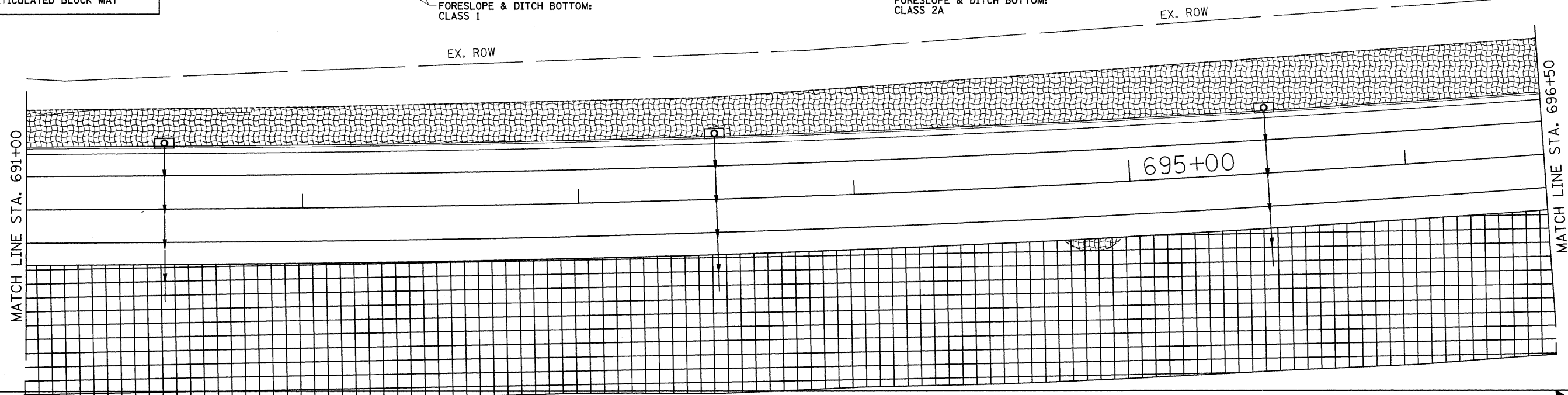
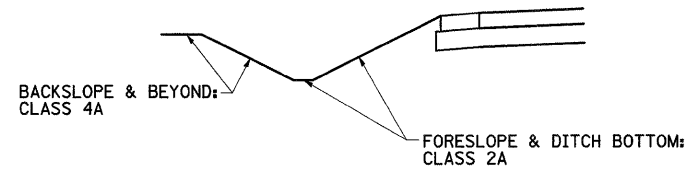
EROSION CONTROL DETAILS

-  = SEEDING OR SOD
-  = TEMPORARY DITCH CHECKS
-  = EROSION CONTROL BLANKET
-  = PERIMETER EROSION BARRIER
-  = INLET PIPE PROTECTION
-  = RIP RAP
-  = TURF REINFORCEMENT MAT
-  = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

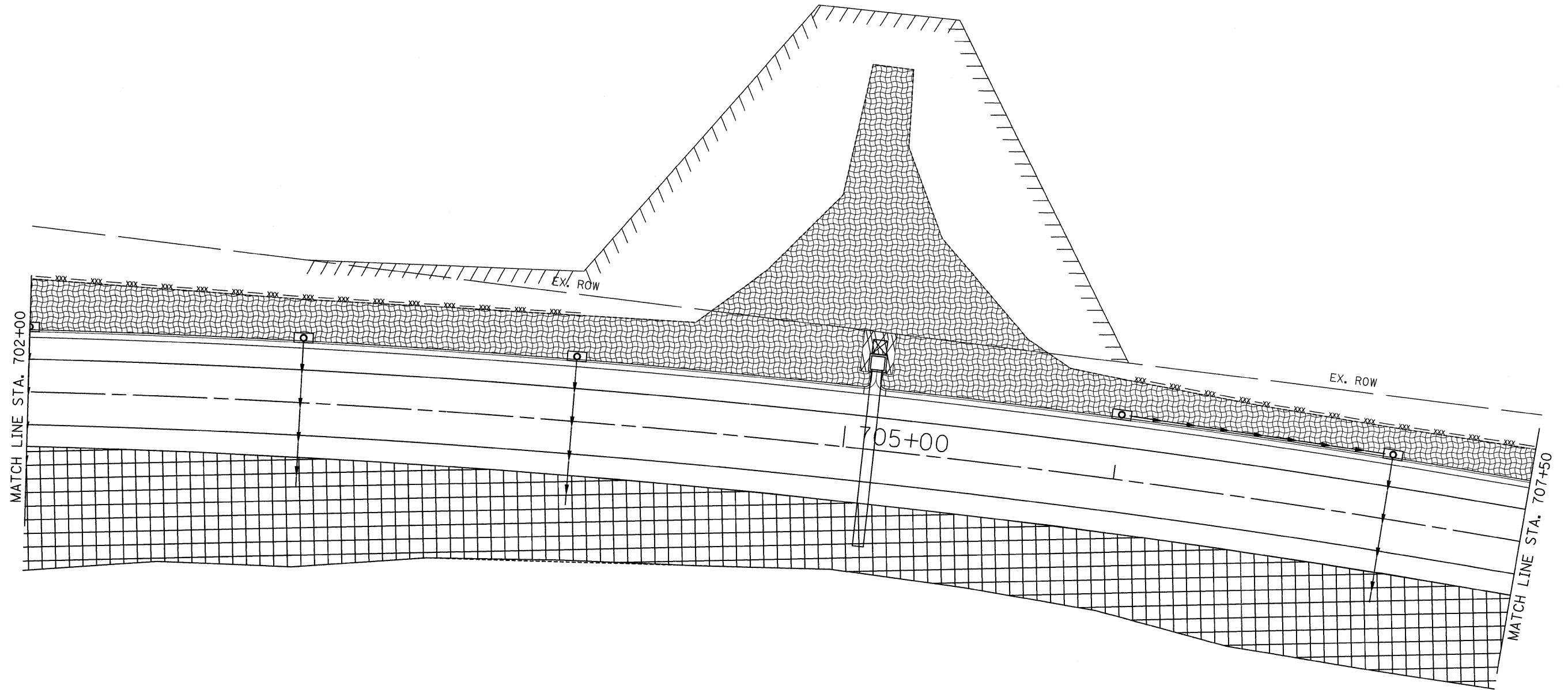
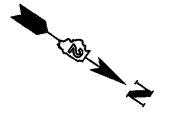


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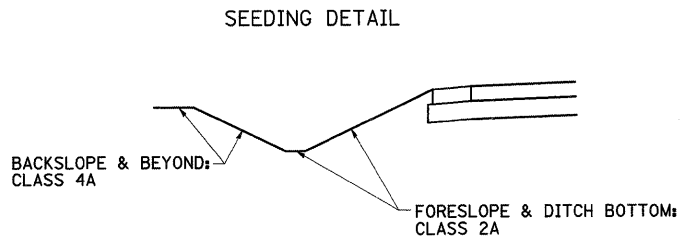
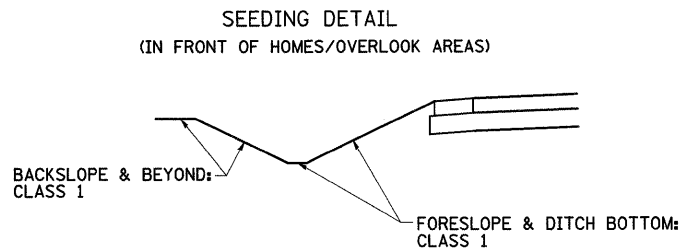


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or\pw_work\PIWIDOT\GRANTPM\dms31213\ad86628eros.dgn		DRAWN -	REVISED -		742	37R-4	OGLE	867	266			
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PLOT DATE = Tue Mar 30 18:47:53 2010		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

EROSION CONTROL DETAILS

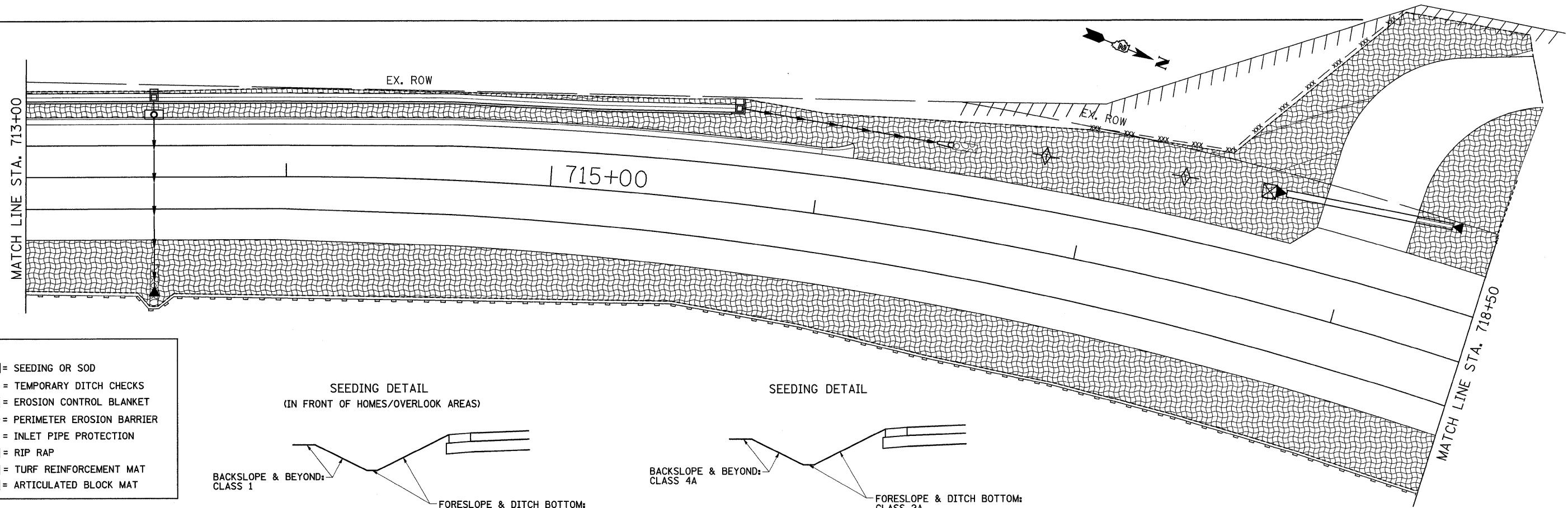
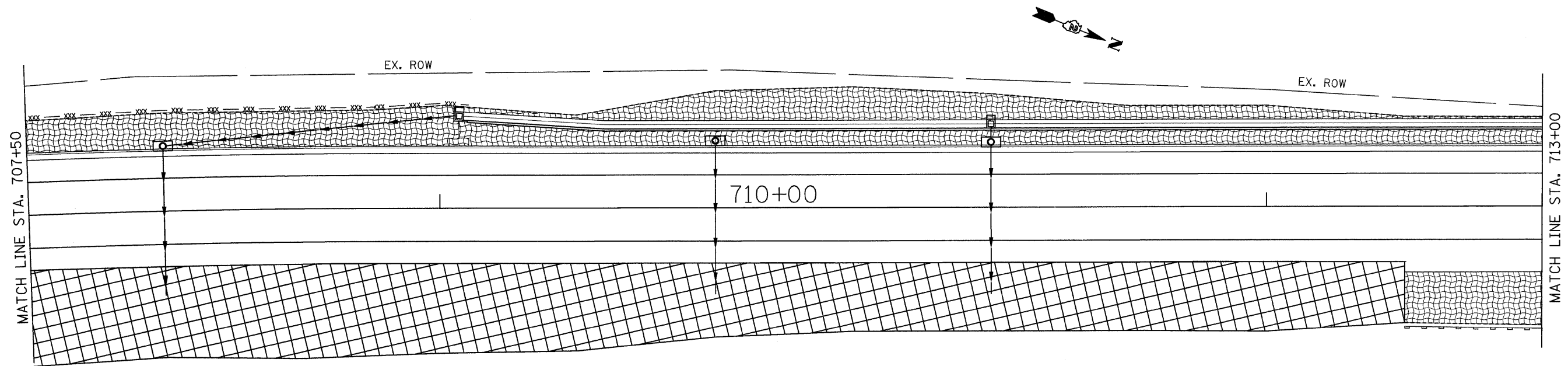


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



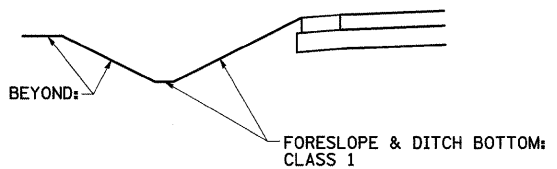
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PLOT DATE = Tue Mar 30 10:47:55 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
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EROSION CONTROL DETAILS

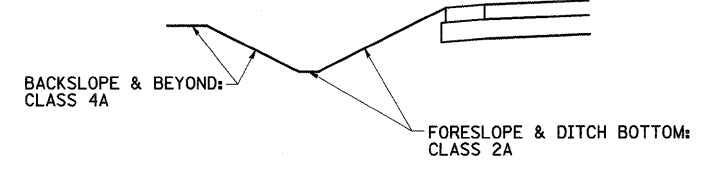


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
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- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

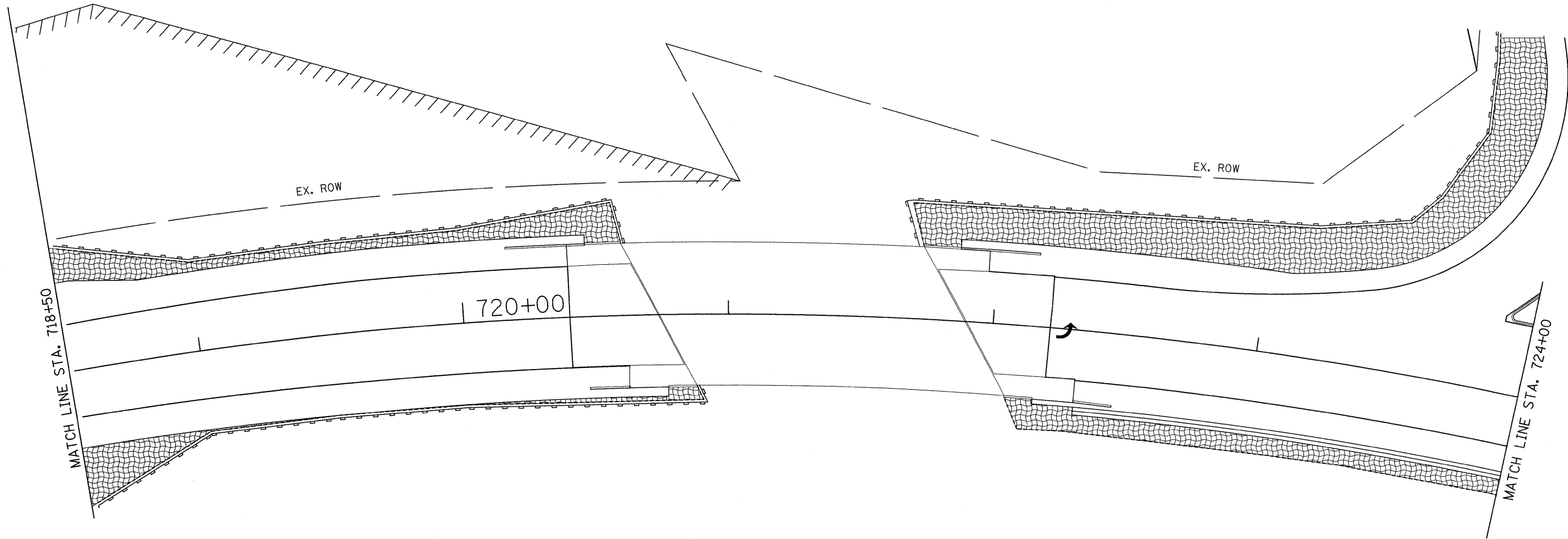


SEEDING DETAIL

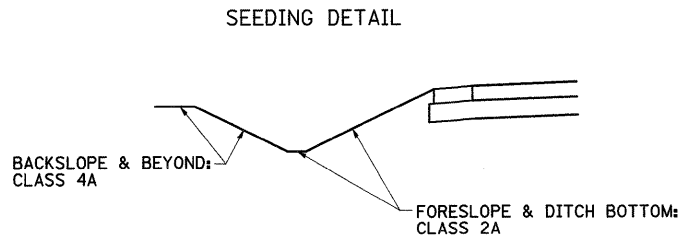
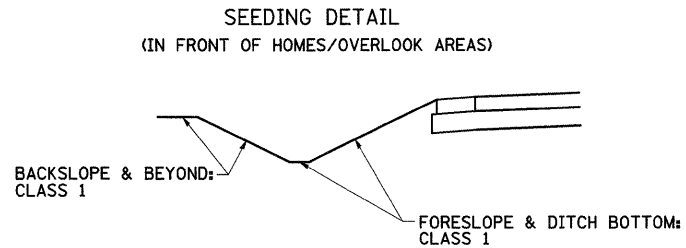


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = Tue Mar 30 10:47:57 2010	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:		SHEET NO. OF SHEETS STA. TO STA.			

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

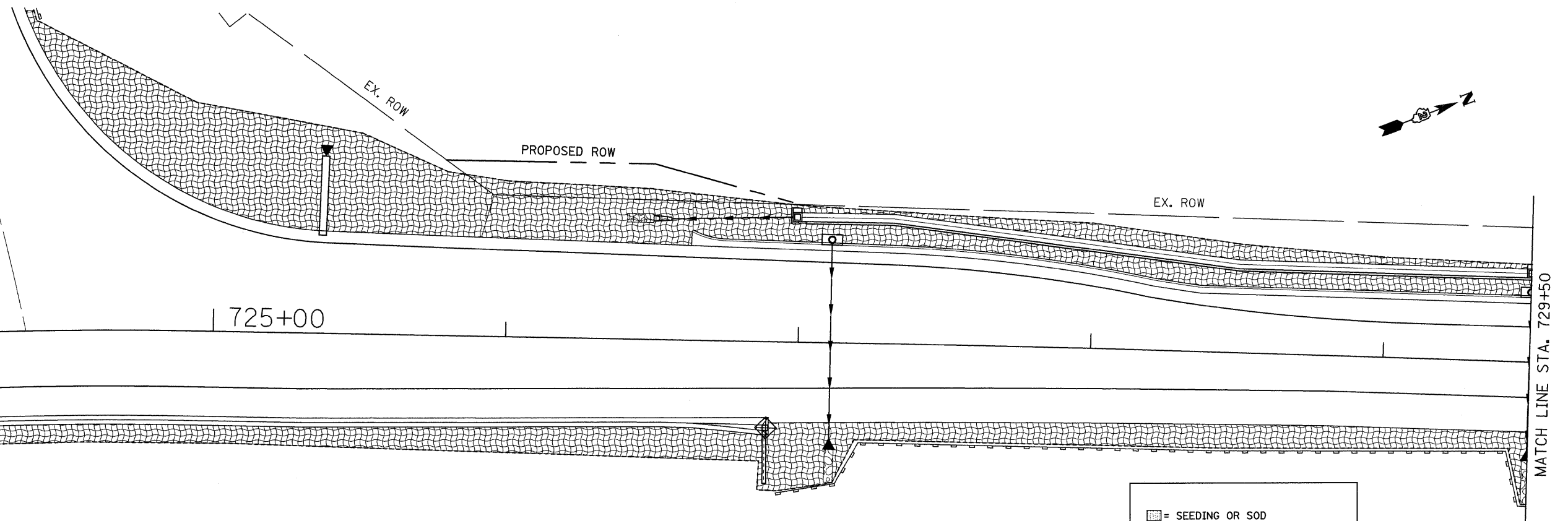
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	269
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

EROSION CONTROL DETAILS

MUD CREEK ROAD

MATCH LINE STA. 724+00



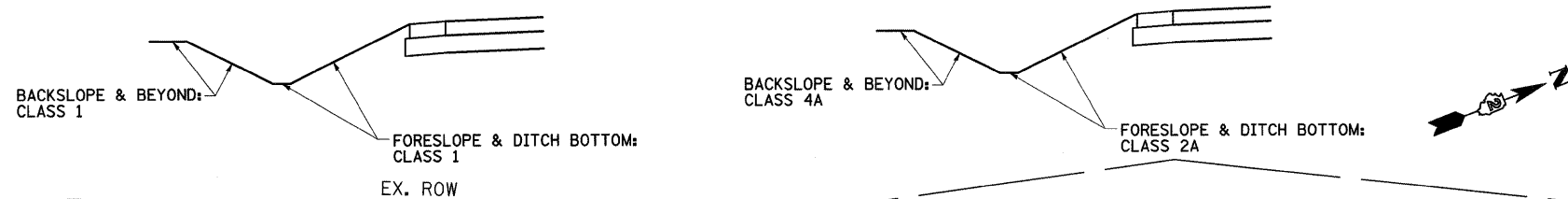
725+00

MATCH LINE STA. 729+50

- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

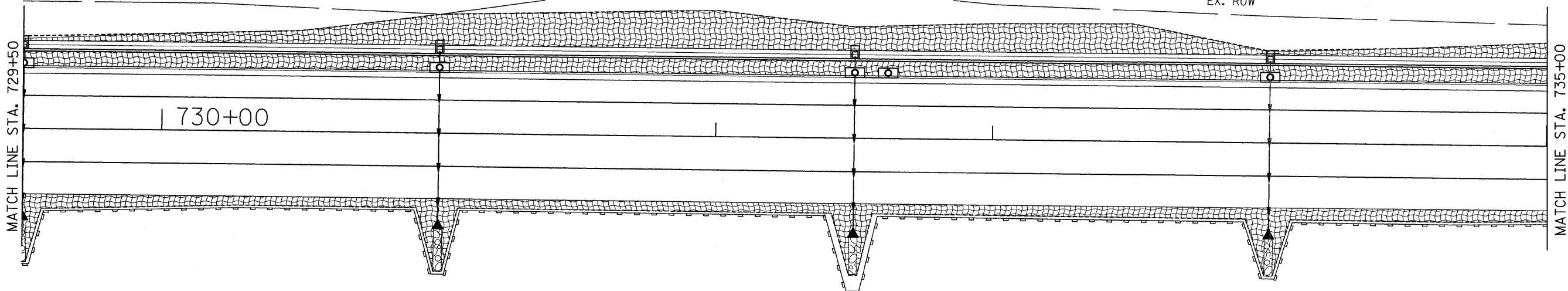
SEEDING DETAIL



MATCH LINE STA. 729+50

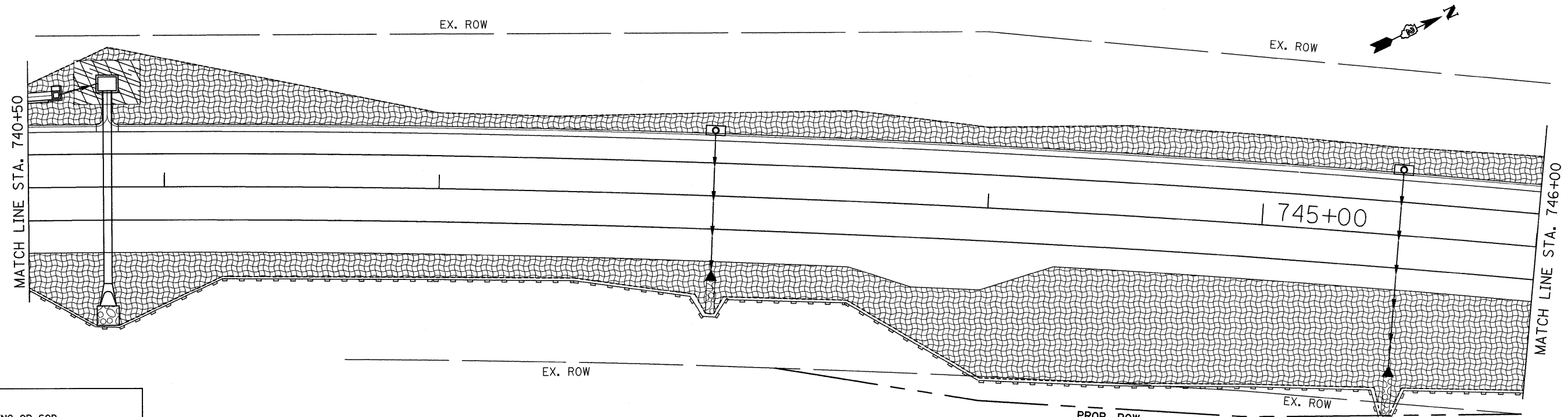
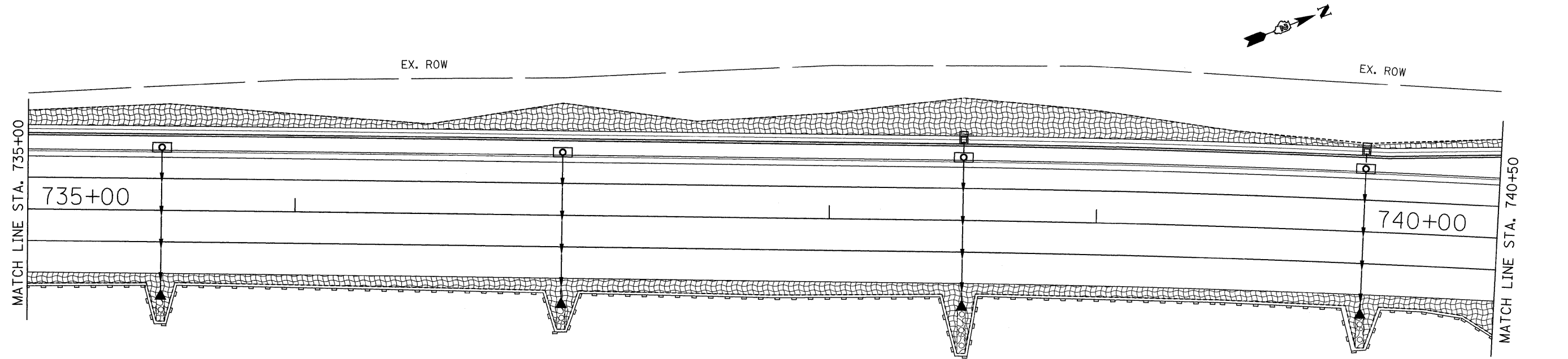
730+00

MATCH LINE STA. 735+00

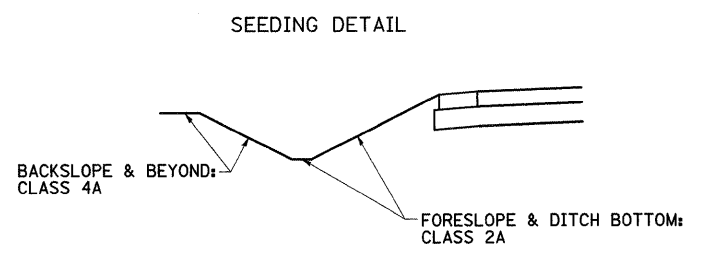
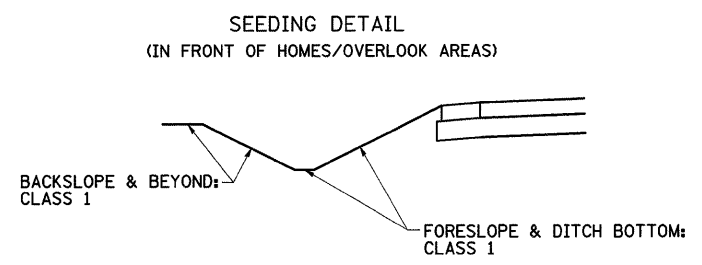


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\VP\WIDOT\GRANTPM\dms31213\086608eros.dgn		DRAWN -	REVISED -			742	3TR-4	OGLE	867	270	
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 10:48:02 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.			

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



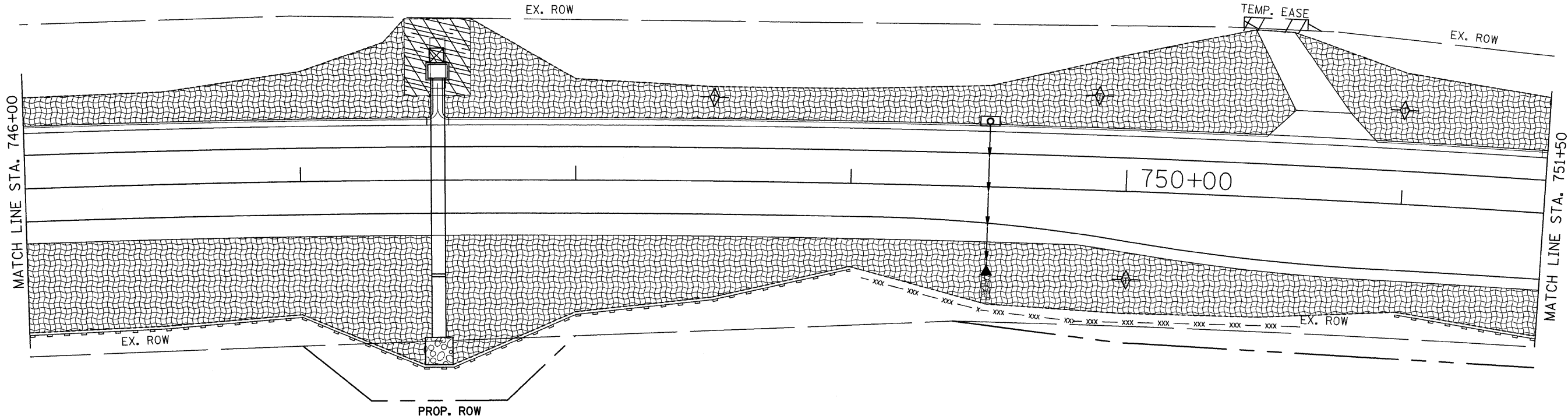
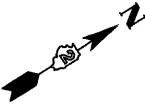
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PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 10:48:05 2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

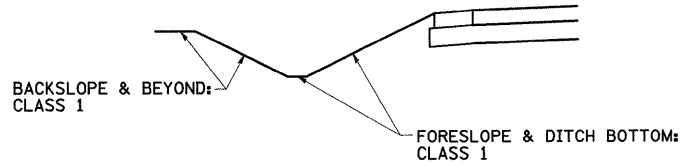
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	271
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EROSION CONTROL DETAILS

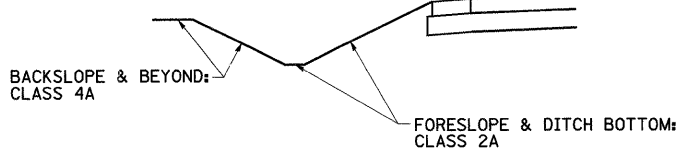


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

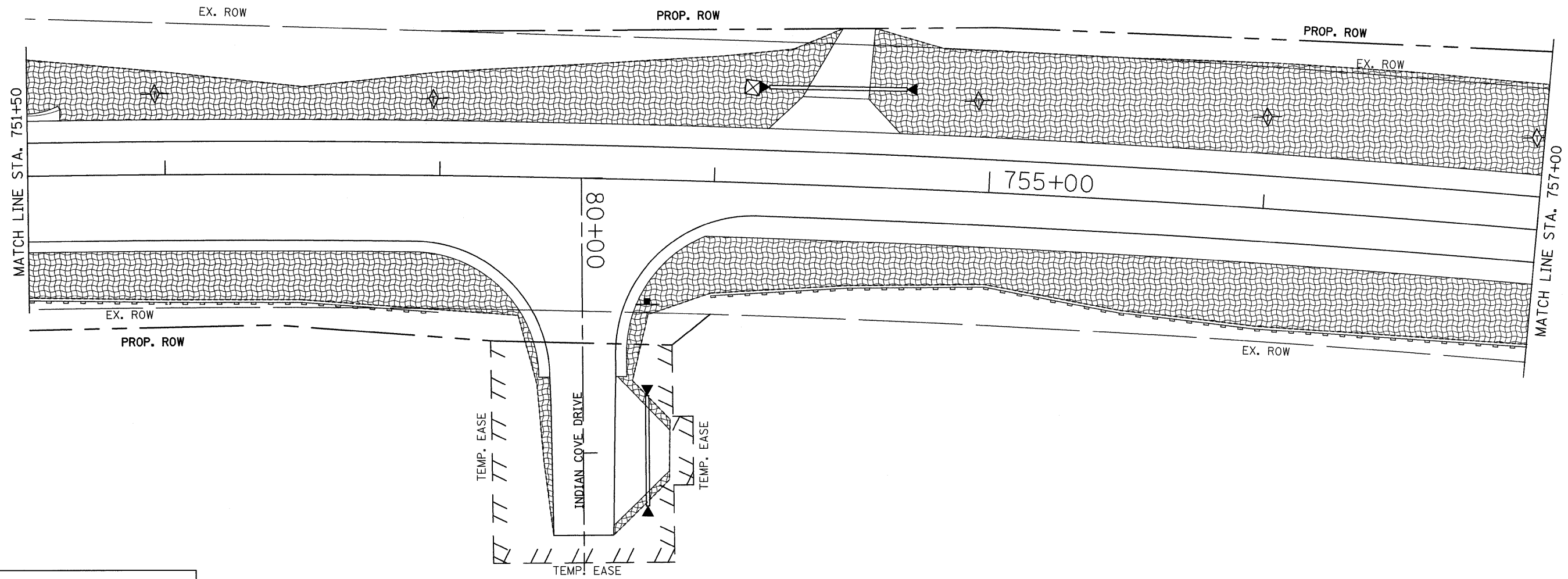
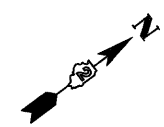


SEEDING DETAIL



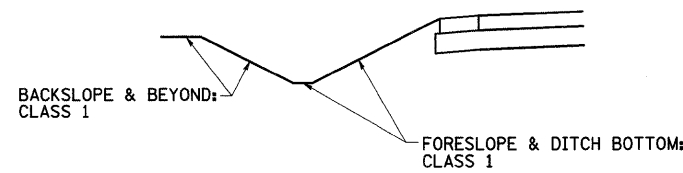
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es\pwwork\PMWIDOT\GRANTPM\dms31213\d06608eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	272	
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 10:48:08 2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

EROSION CONTROL DETAILS

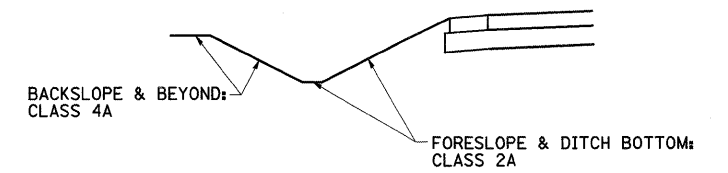


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)



SEEDING DETAIL



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pw_work\PMIDOT\GRANTPM\dms31213\d06608eros.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 10:48:10 2010		DATE -	REVISED -









**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

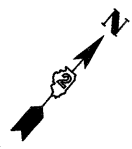
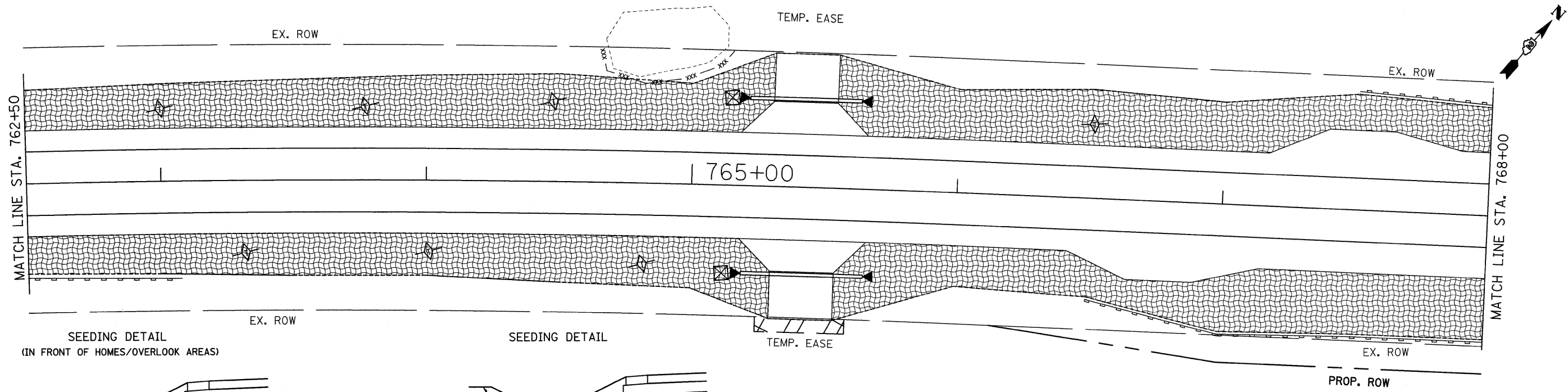
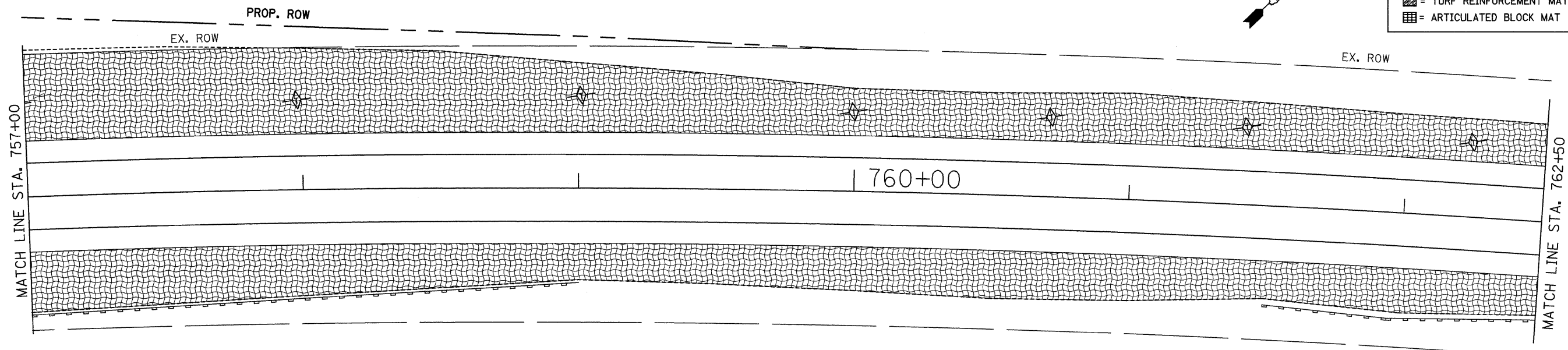
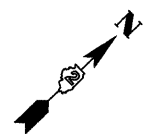
EROSION CONTROL DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	273
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

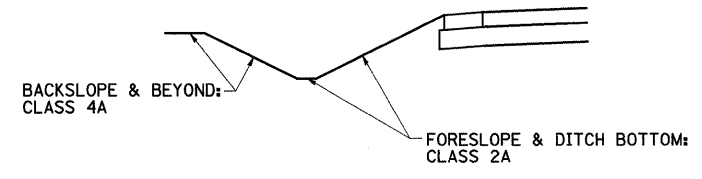
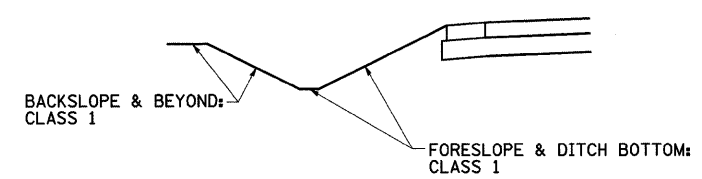
EROSION CONTROL DETAILS

-  = SEEDING OR SOD
-  = TEMPORARY DITCH CHECKS
-  = EROSION CONTROL BLANKET
-  = PERIMETER EROSION BARRIER
-  = INLET PIPE PROTECTION
-  = RIP RAP
-  = TURF REINFORCEMENT MAT
-  = ARTICULATED BLOCK MAT



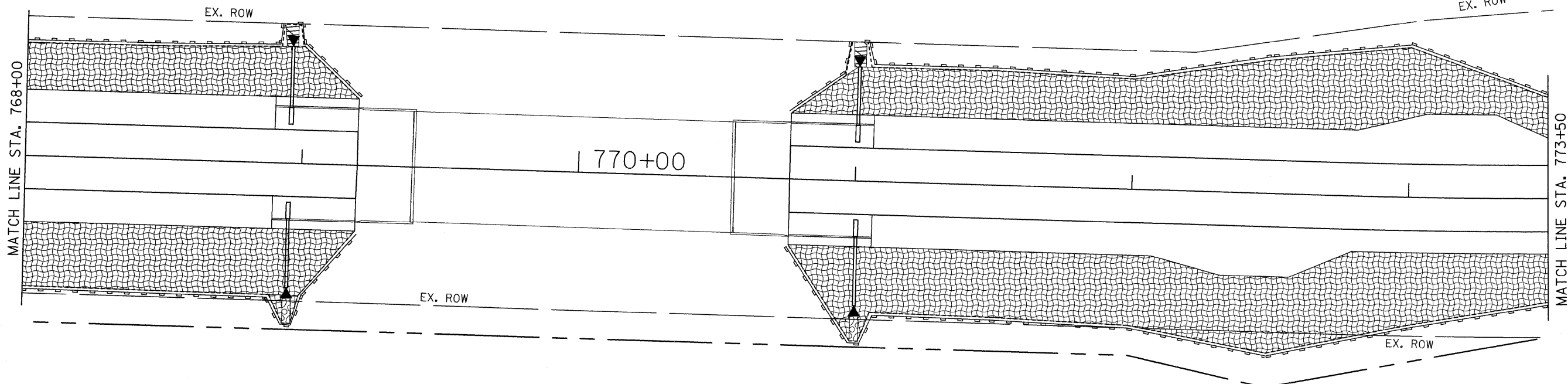
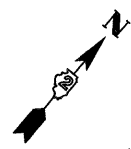
SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

SEEDING DETAIL

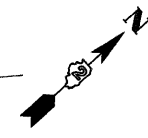
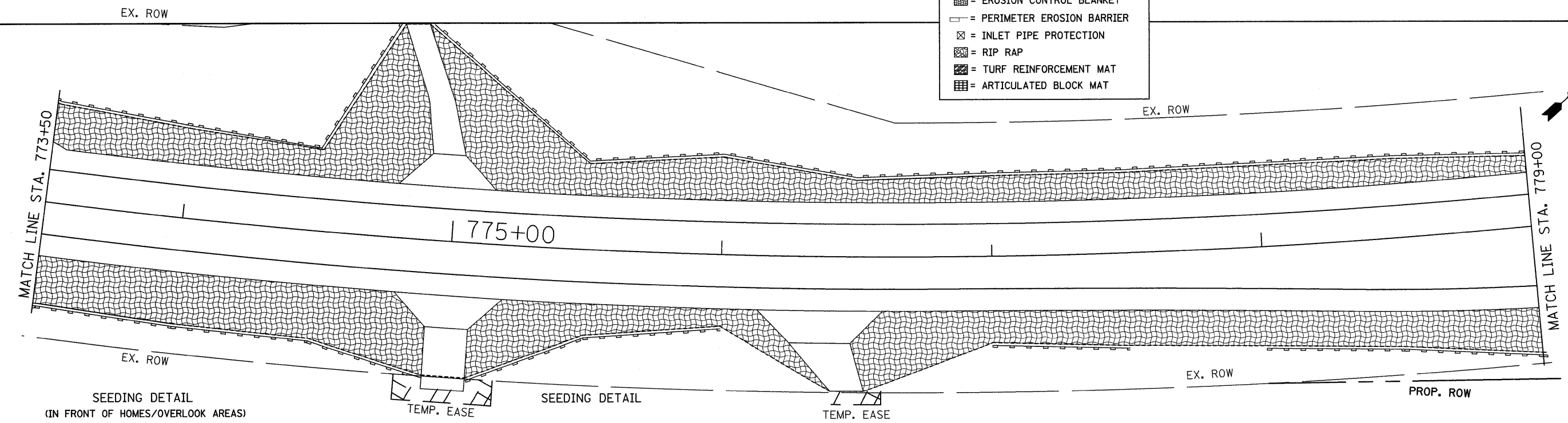


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cs:\pw_work\VP\WIDOT\GRANTPM\dms31213\086628eros.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	274	
PLOT DATE = Tue Mar 30 10:48:13 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17					
						SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS

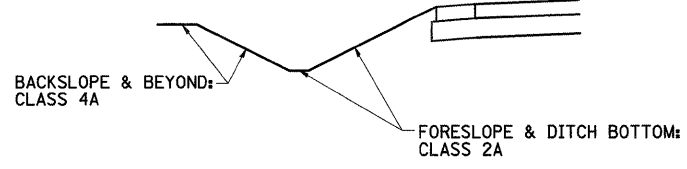
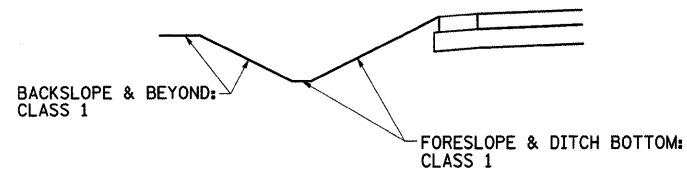


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



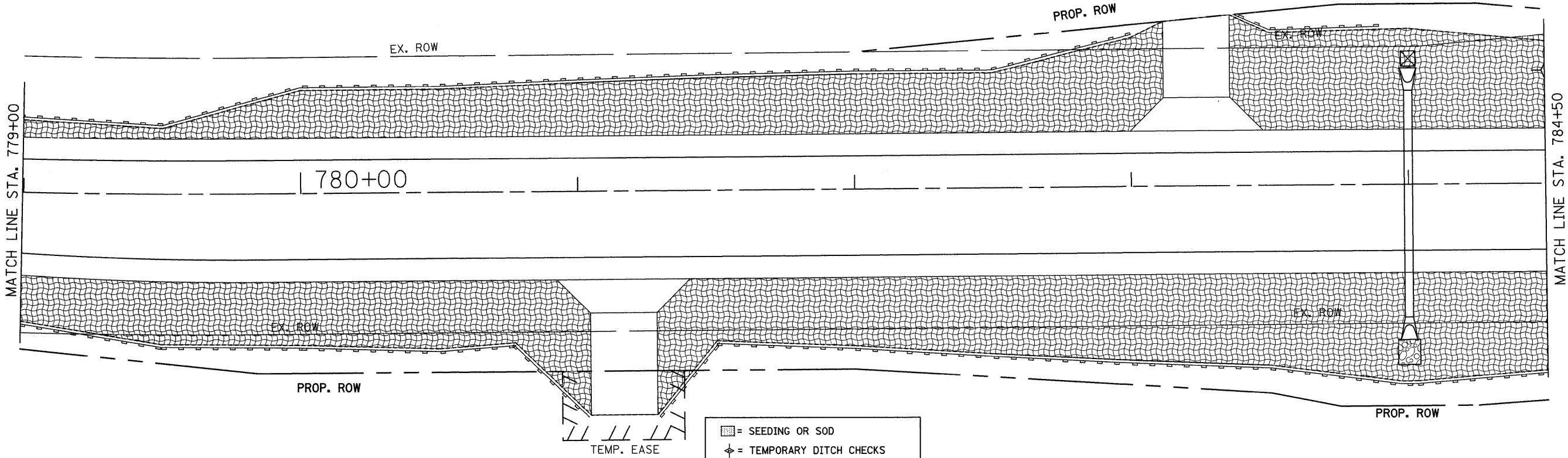
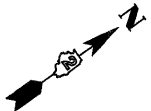
SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

SEEDING DETAIL

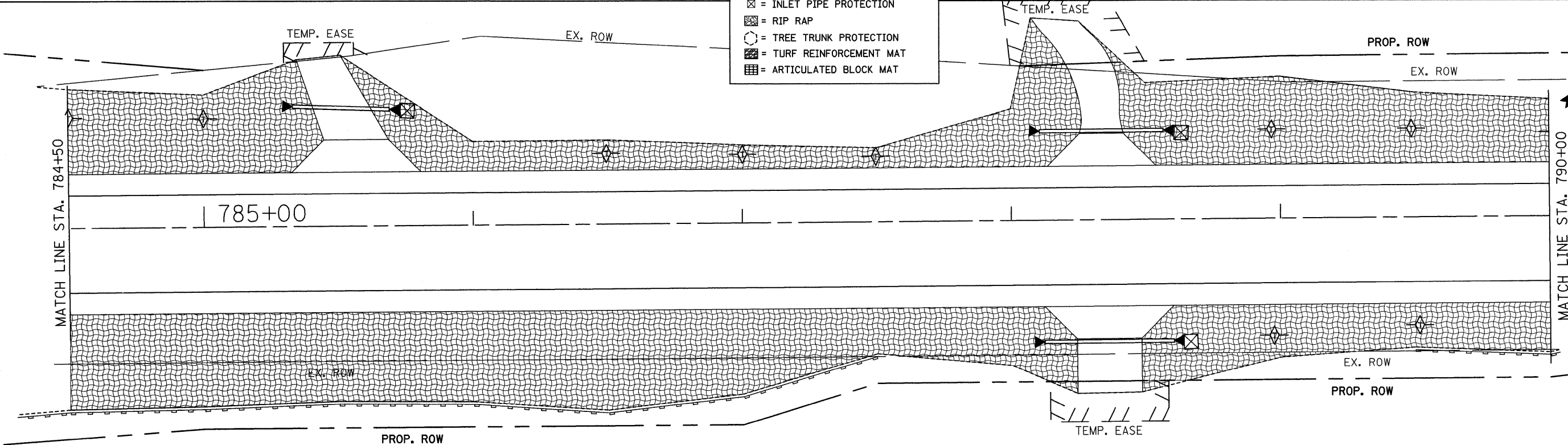


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
os:\pwwork\VPWIDOT\GRANTPM\dms31213\086628eros.dgn	28eros.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	275	
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PLOT DATE = Tue Mar 30 10:46:17 2010	DATE -	REVISED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS

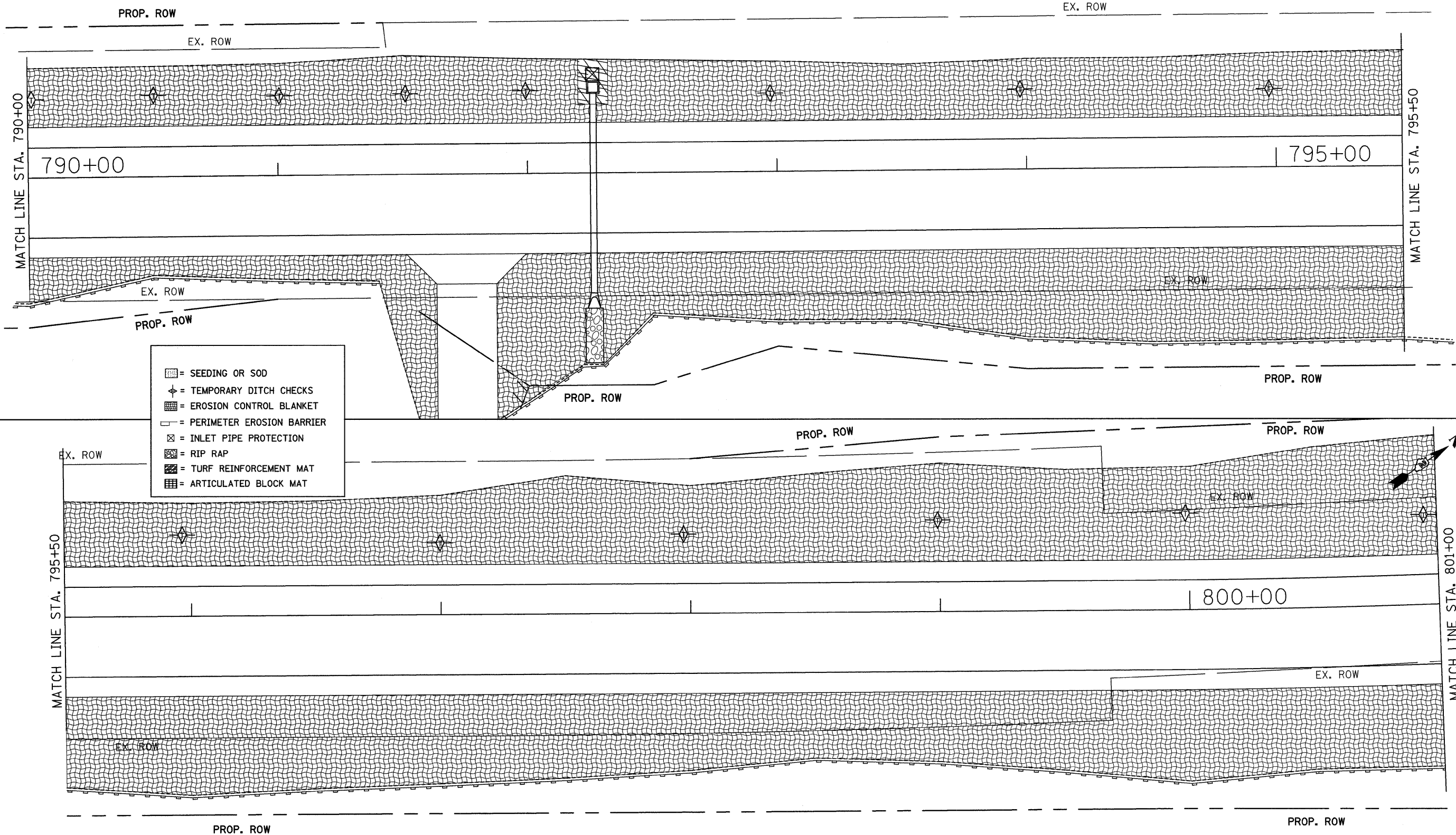
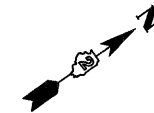


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TREE TRUNK PROTECTION
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Tue Mar 30 10:48:20 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

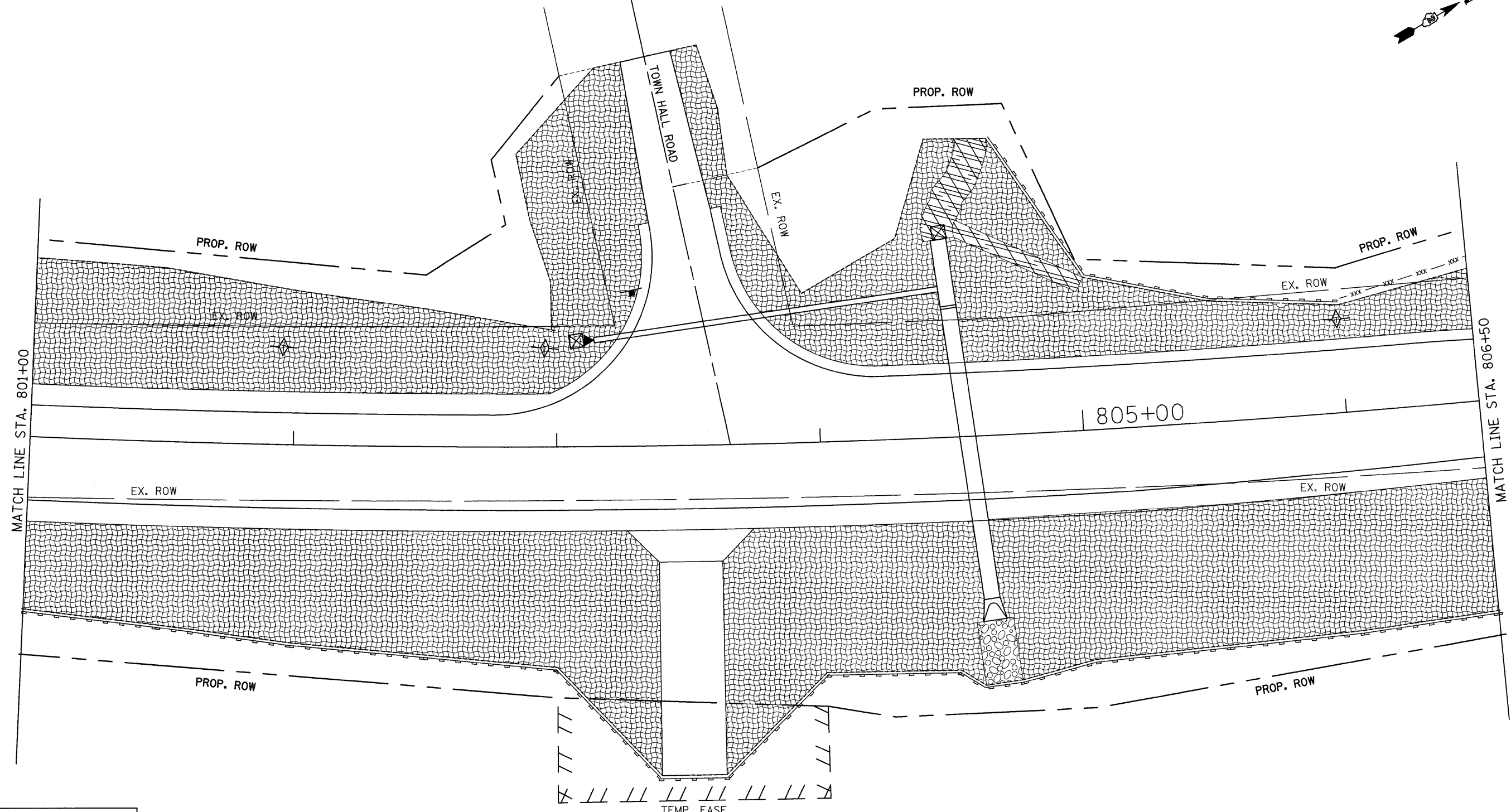
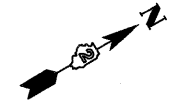
EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

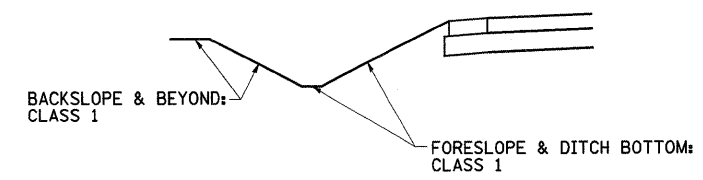
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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EROSION CONTROL DETAILS

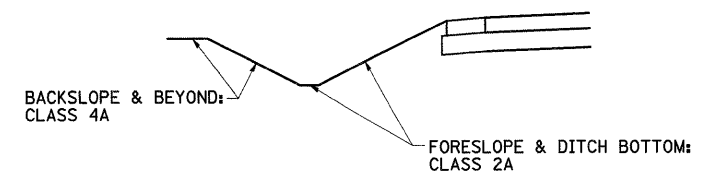


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

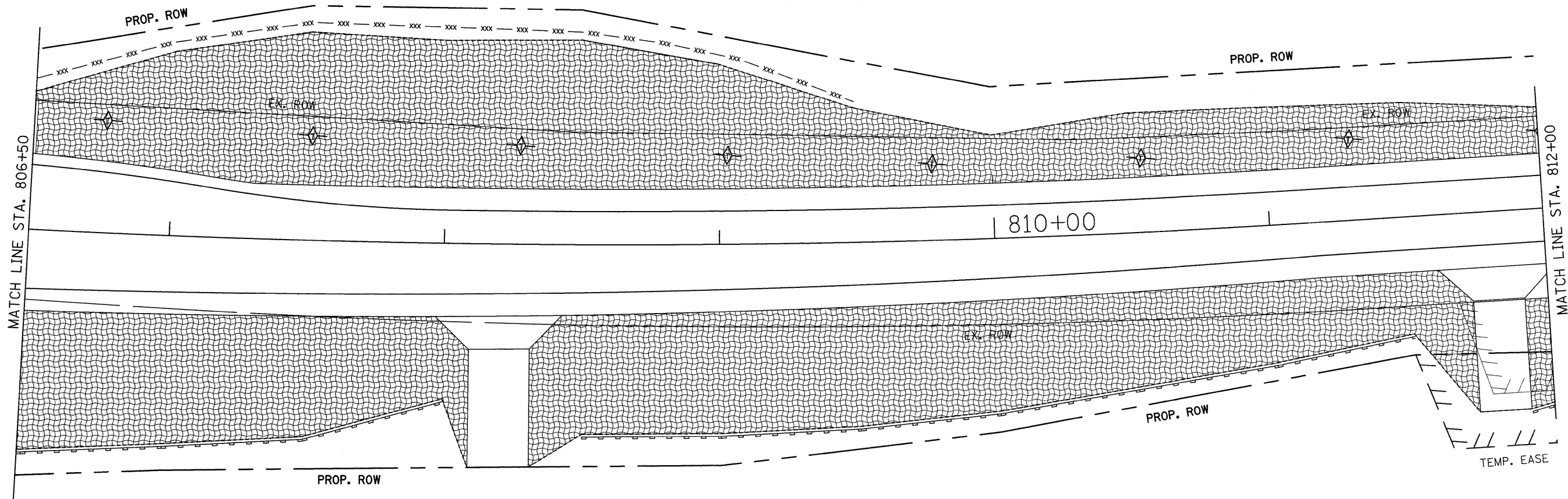
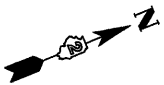


SEEDING DETAIL

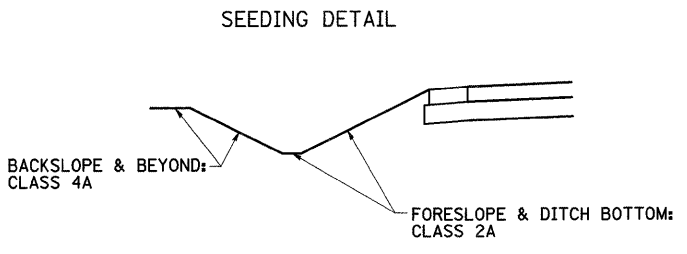
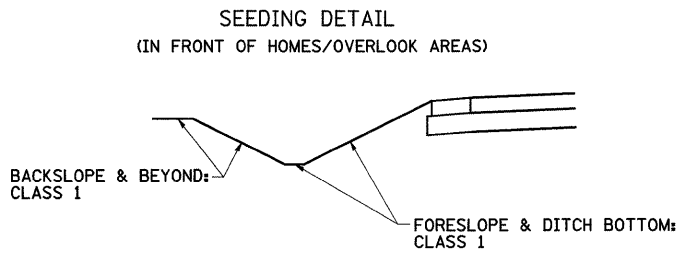


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Tue Mar 30 10:48:31 2010	DATE -	CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64E17		

EROSION CONTROL DETAILS

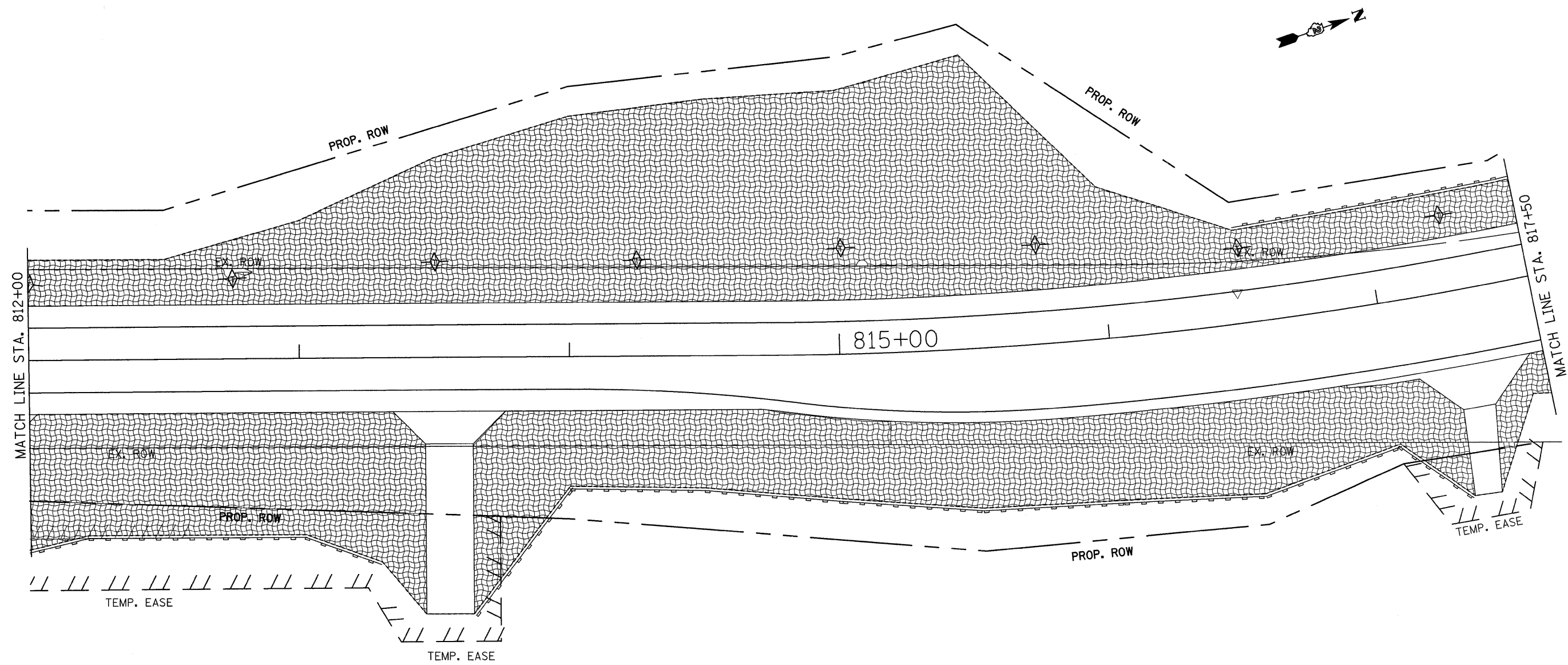


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

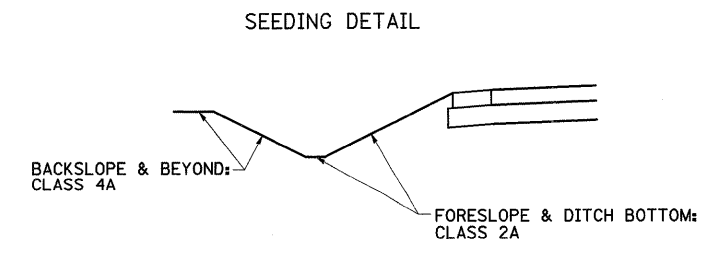
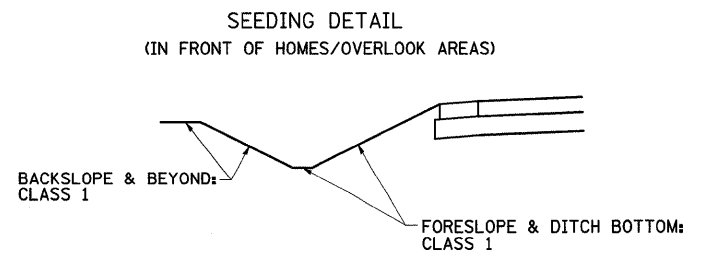


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PIWIDOT\GRANTPM\dms31213\d06628eros.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	279	
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		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS

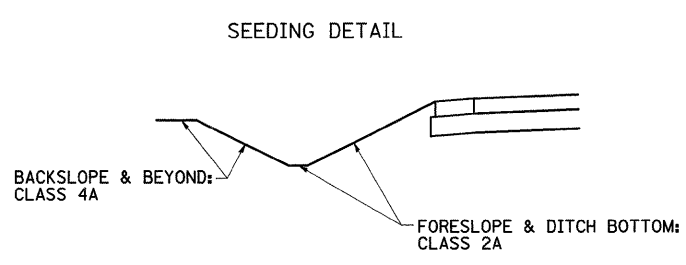
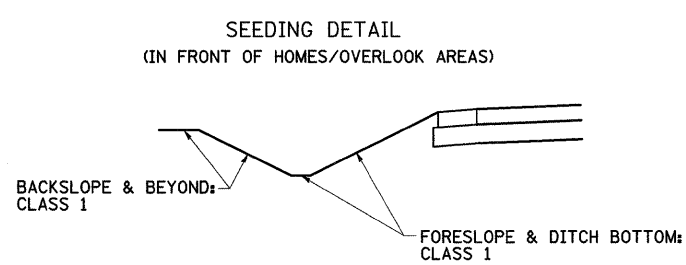
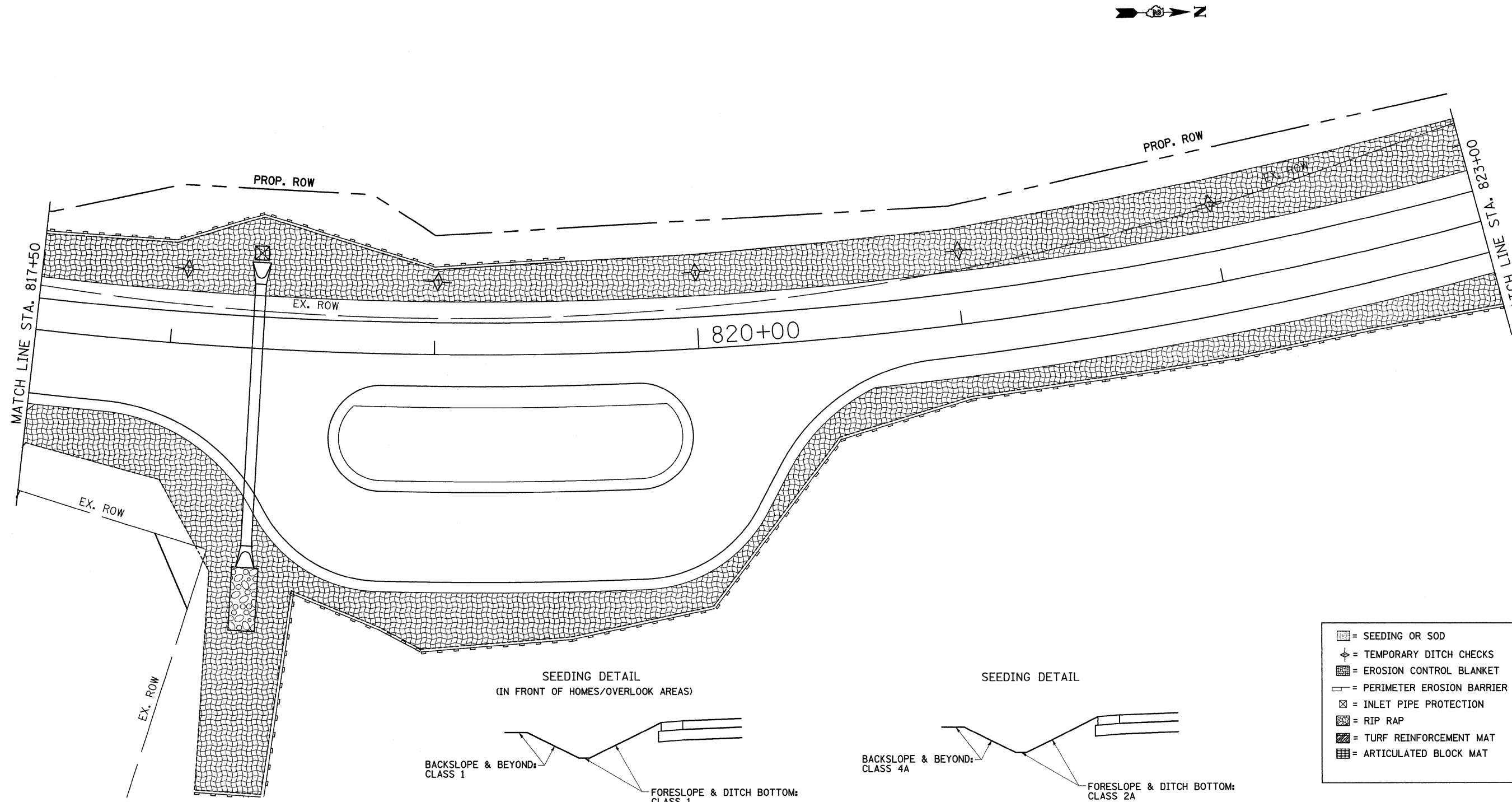


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es\pwwork\PMIDOT\GRANTPM\dms31213\d066808eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	280
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 10:48:40 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:						
				SHEET NO. OF SHEETS						
				STA. TO STA.						









EROSION CONTROL DETAILS

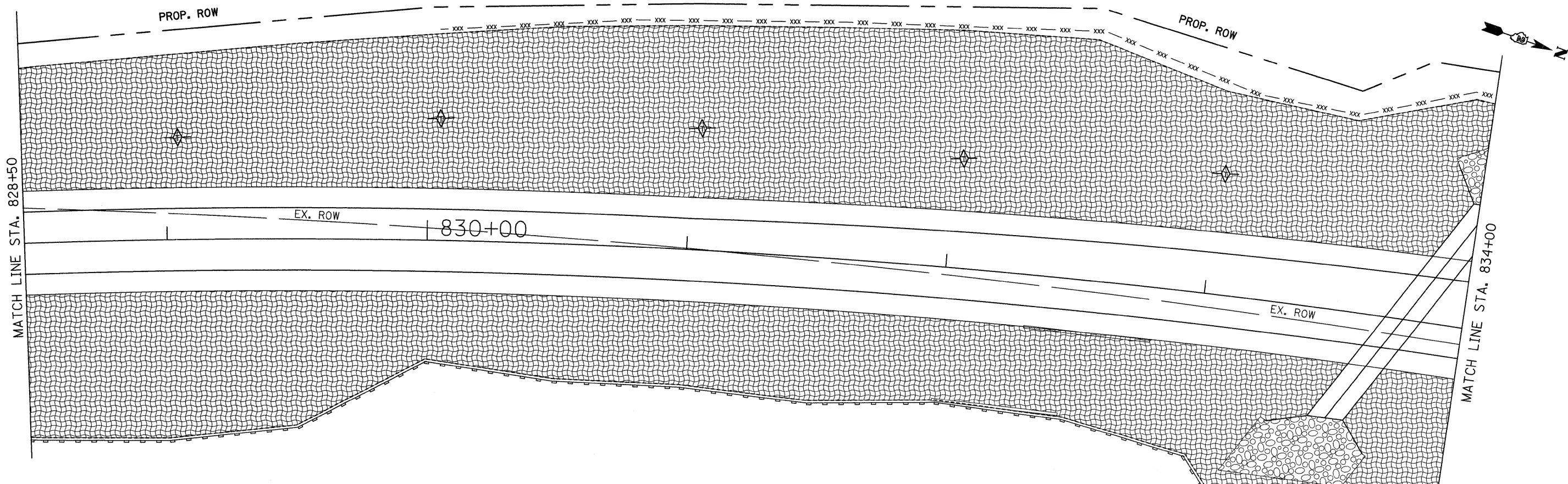
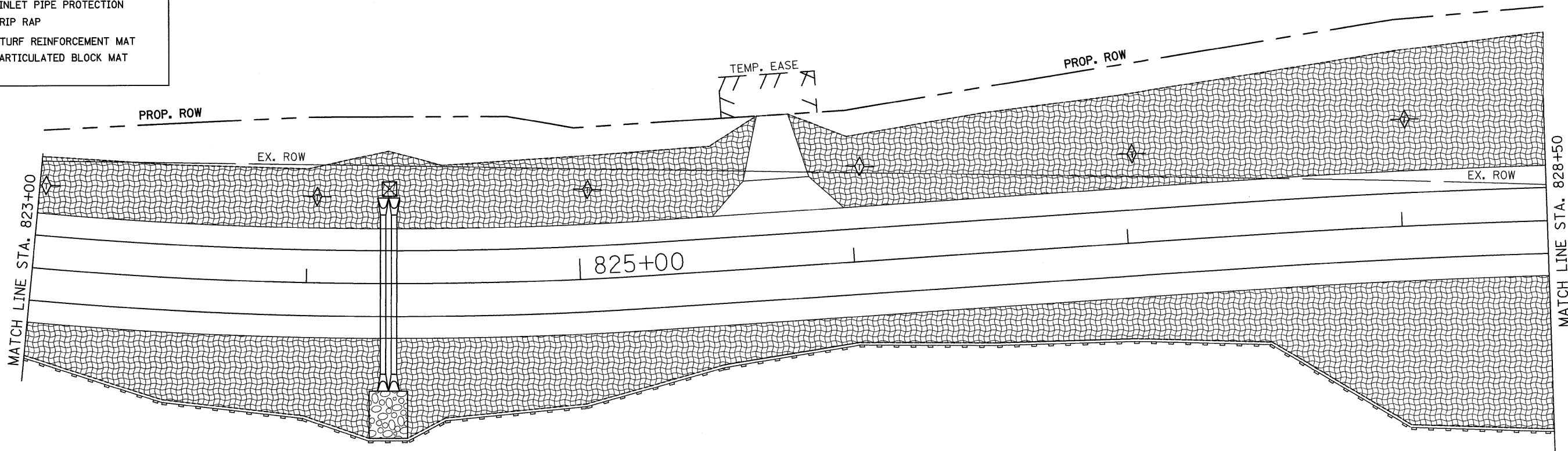


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\PWIDOT\GRANTPM\dms31213\06608eros.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	281	
PLOT DATE = Tue Mar 30 10:48:44 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			

EROSION CONTROL DETAILS

-  = SEEDING OR SOD
-  = TEMPORARY DITCH CHECKS
-  = EROSION CONTROL BLANKET
-  = PERIMETER EROSION BARRIER
-  = INLET PIPE PROTECTION
-  = RIP RAP
-  = TURF REINFORCEMENT MAT
-  = ARTICULATED BLOCK MAT



FILE NAME =
 USER NAME = grantpm
 DRAWN -
 CHECKED -
 PLOT DATE = Tue Mar 30 10:48:47 2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

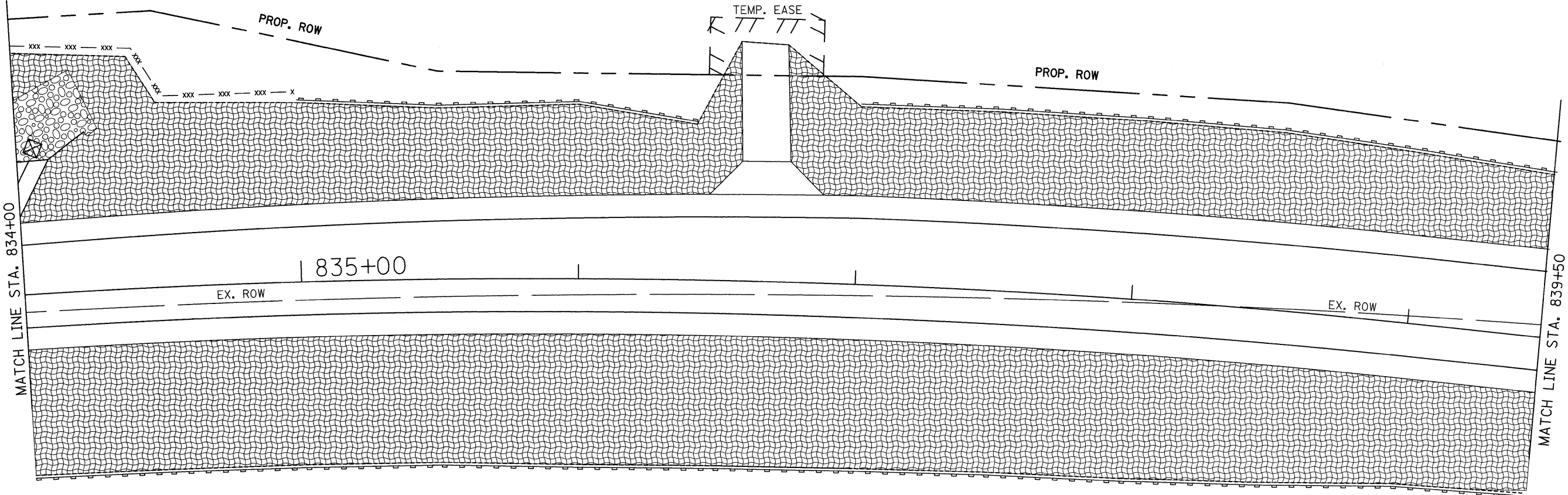
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

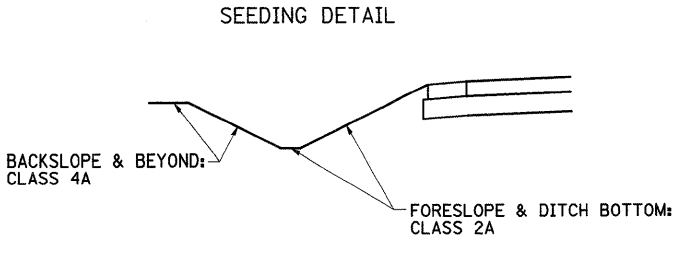
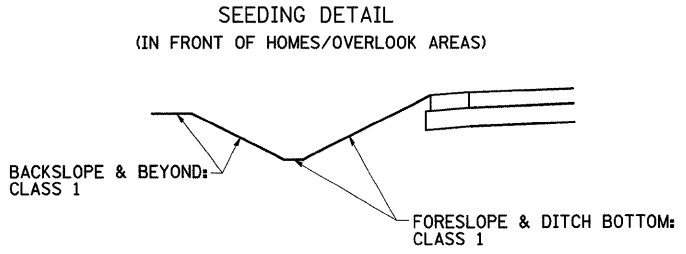
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	282
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64E17				

EROSION CONTROL DETAILS











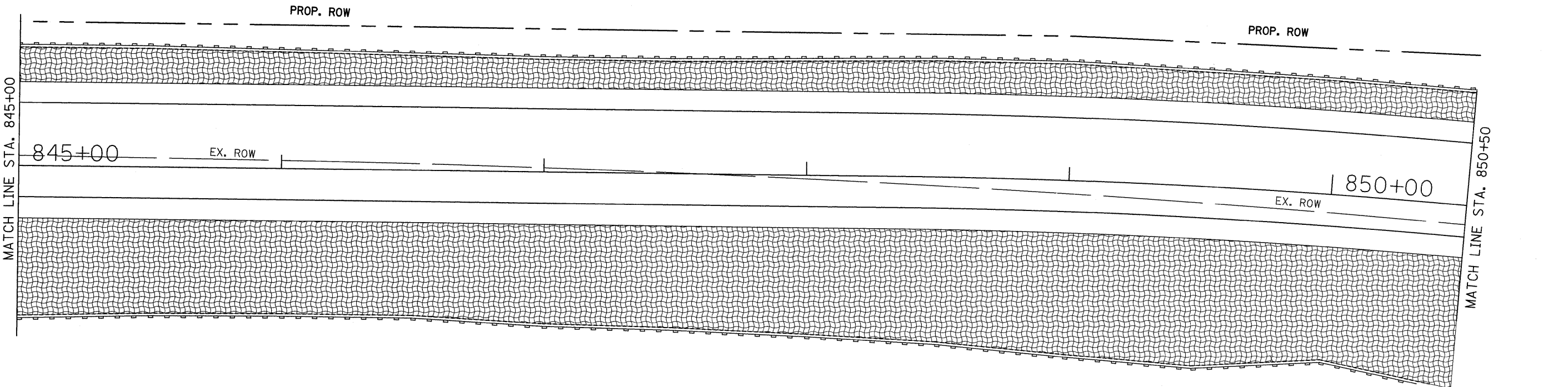
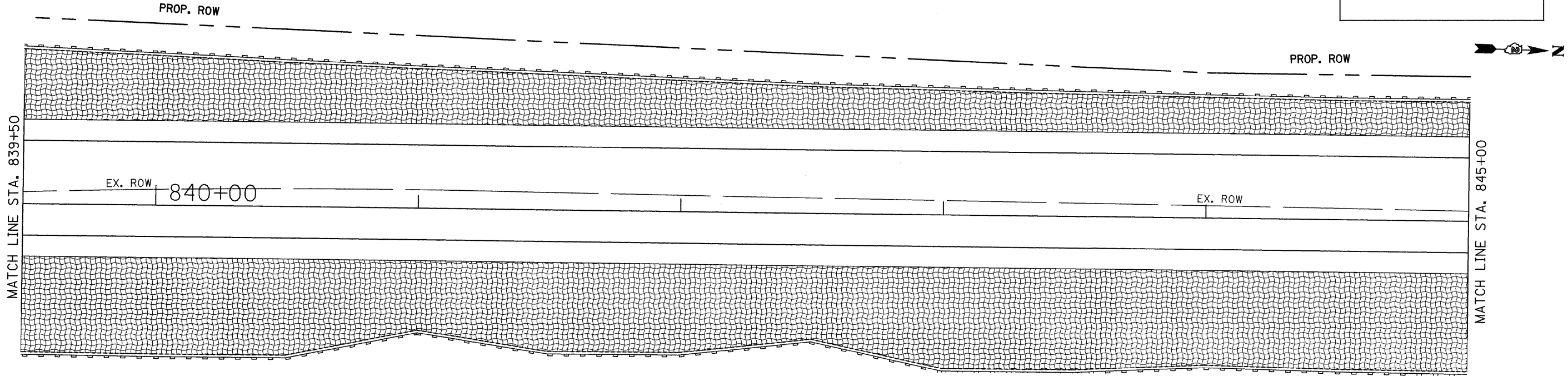
- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\VPWIDOT\GRANTPM\dms31213\086608eros.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	283
	PLOT DATE = Tue Mar 30 10:48:54 2010	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

EROSION CONTROL DETAILS

-  = SEEDING OR SOD
-  = TEMPORARY DITCH CHECKS
-  = EROSION CONTROL BLANKET
-  = PERIMETER EROSION BARRIER
-  = INLET PIPE PROTECTION
-  = RIP RAP
-  = TURF REINFORCEMENT MAT
-  = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ci\pwork\pwidot\GRANTPM\dms31213\d06628eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
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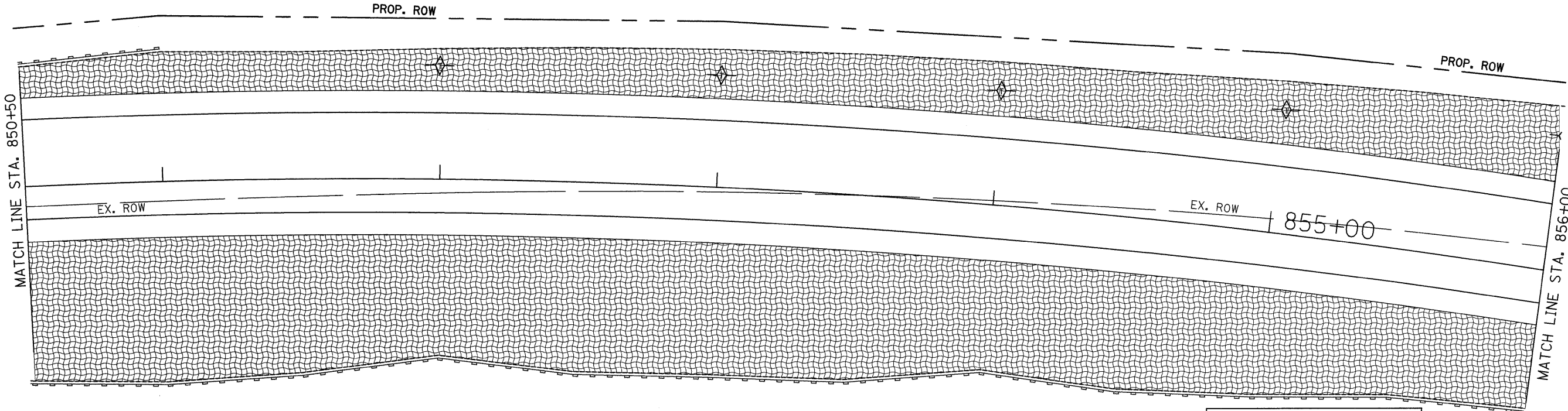
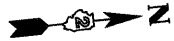
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

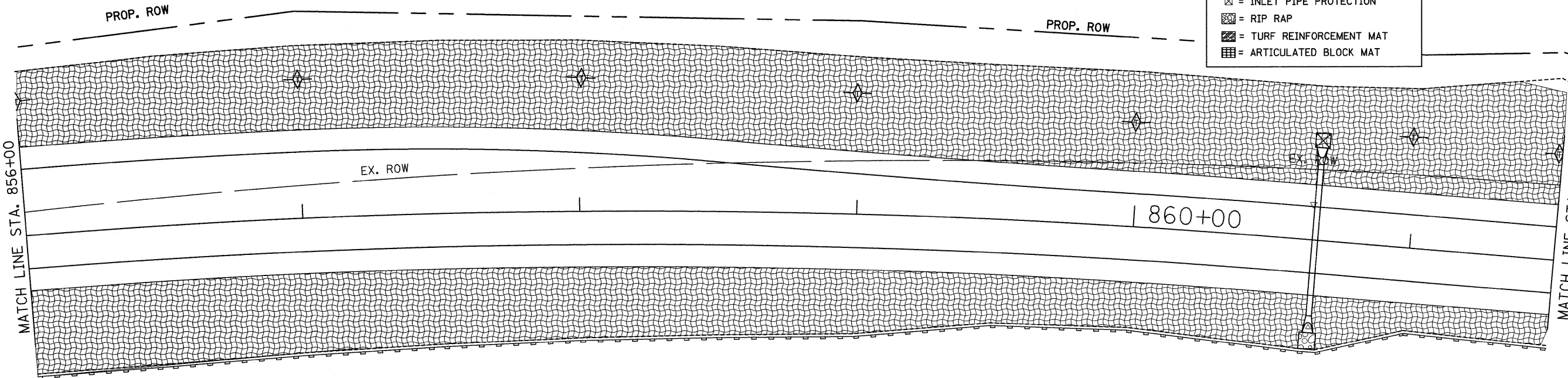
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	284
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

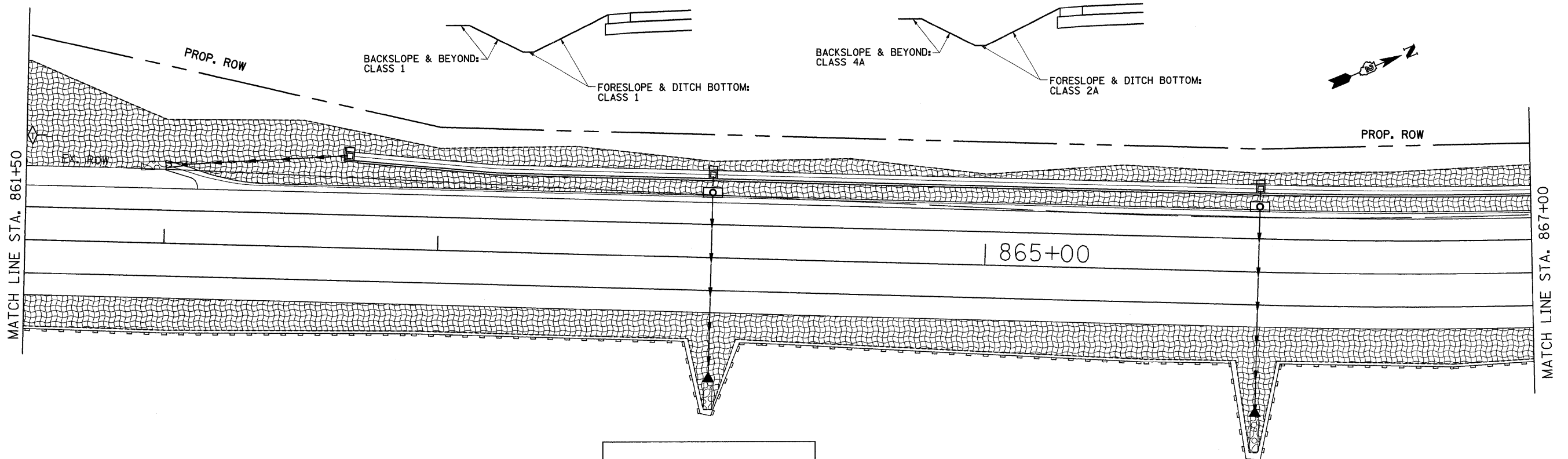


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
g:\pwork\PIWIDOT\GRANTPM\dms31213\066208eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	285
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 10:49:03 2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.		

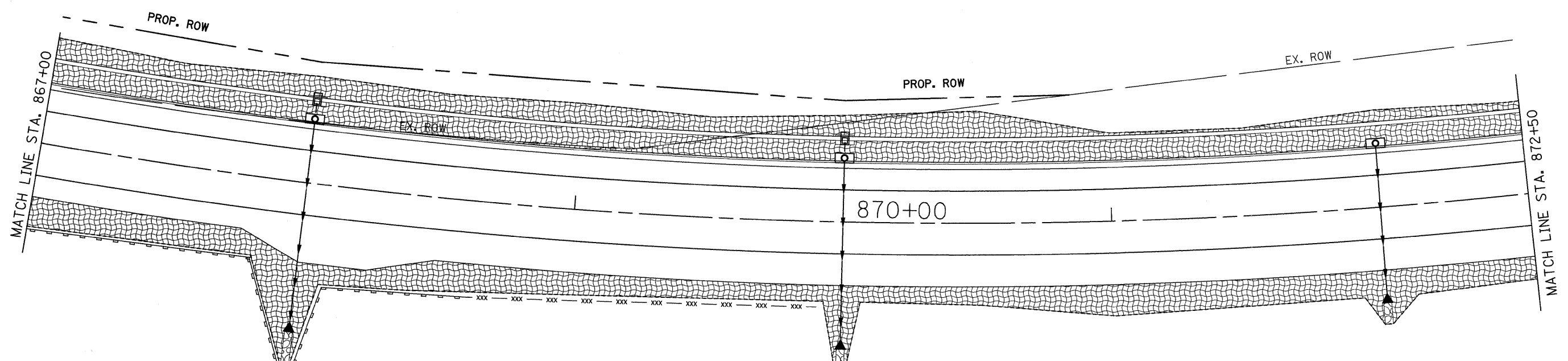
EROSION CONTROL DETAILS

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

SEEDING DETAIL

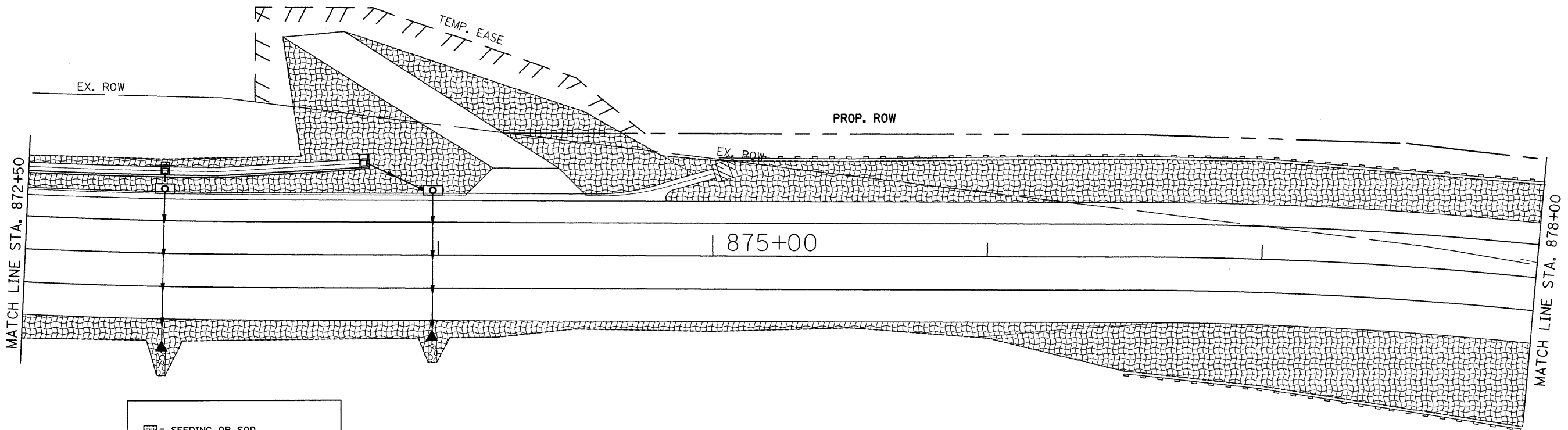


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



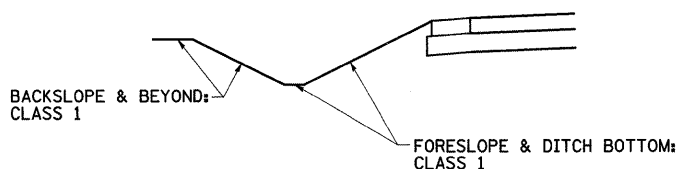
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\VPWIDOT\GRANTPM\dms31213\06608eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	286	
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 10:49:09 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS STA.		TO STA.			

EROSION CONTROL DETAILS

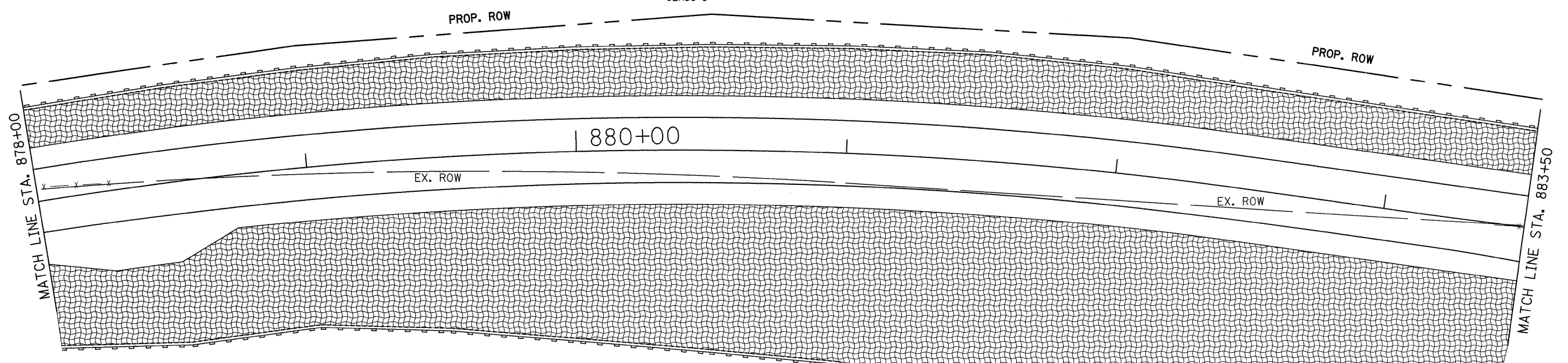
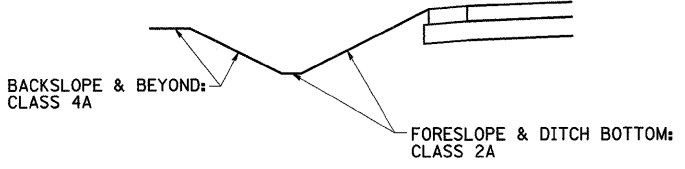


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

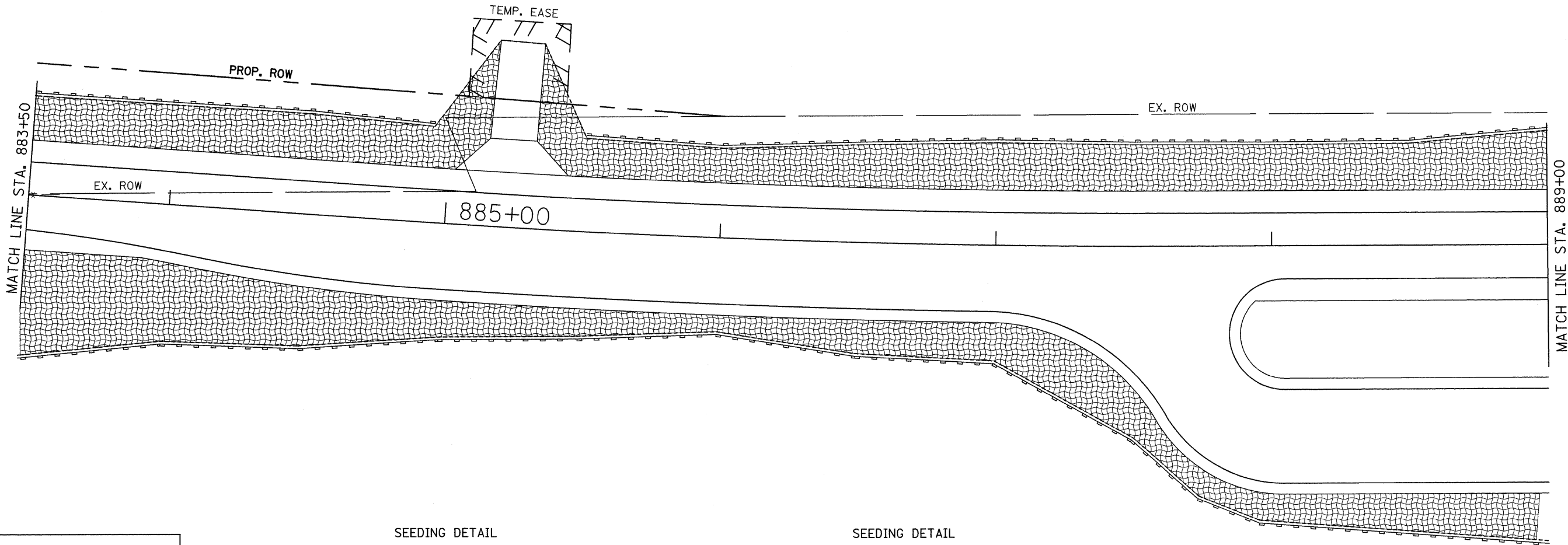
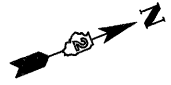


SEEDING DETAIL

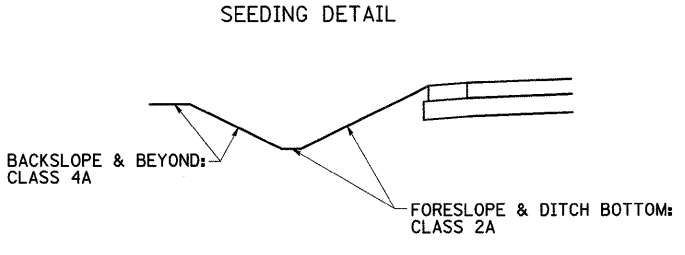
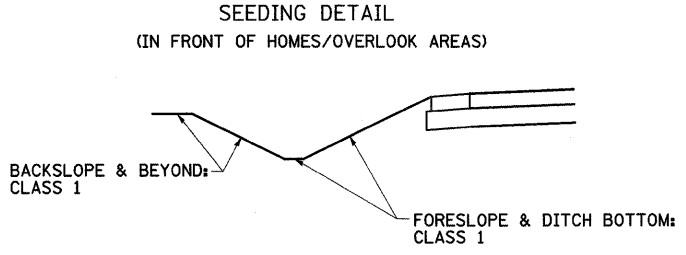


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os:\pw\work\VPWIDOT\GRANTPM\dms31213\d06620eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	287
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 10:49:12 2010		DATE -	REVISED -			SCALE:		SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



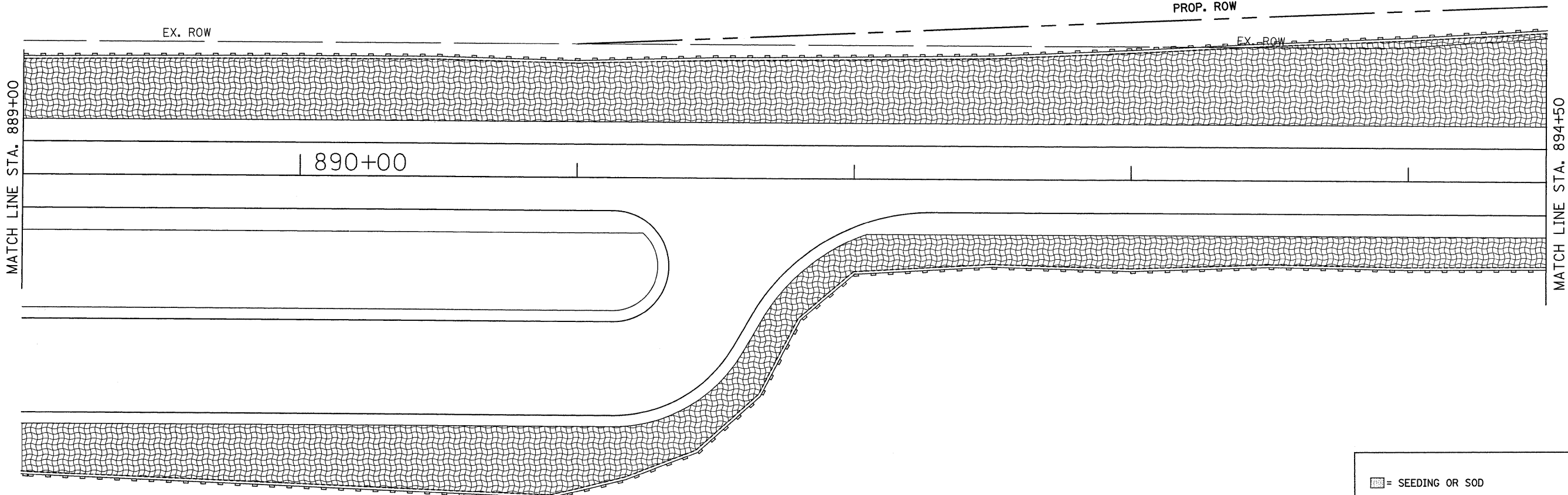
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ci\pwork\PWIDOT\GRANTPM\dms31213\06608eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 10:49:17 2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

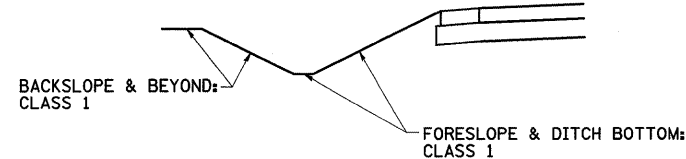
EROSION CONTROL DETAILS			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	288
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

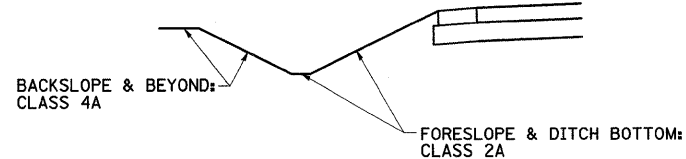
EROSION CONTROL DETAILS



SEEDING DETAIL
(IN FRONT OF HOMES/OVERLOOK AREAS)

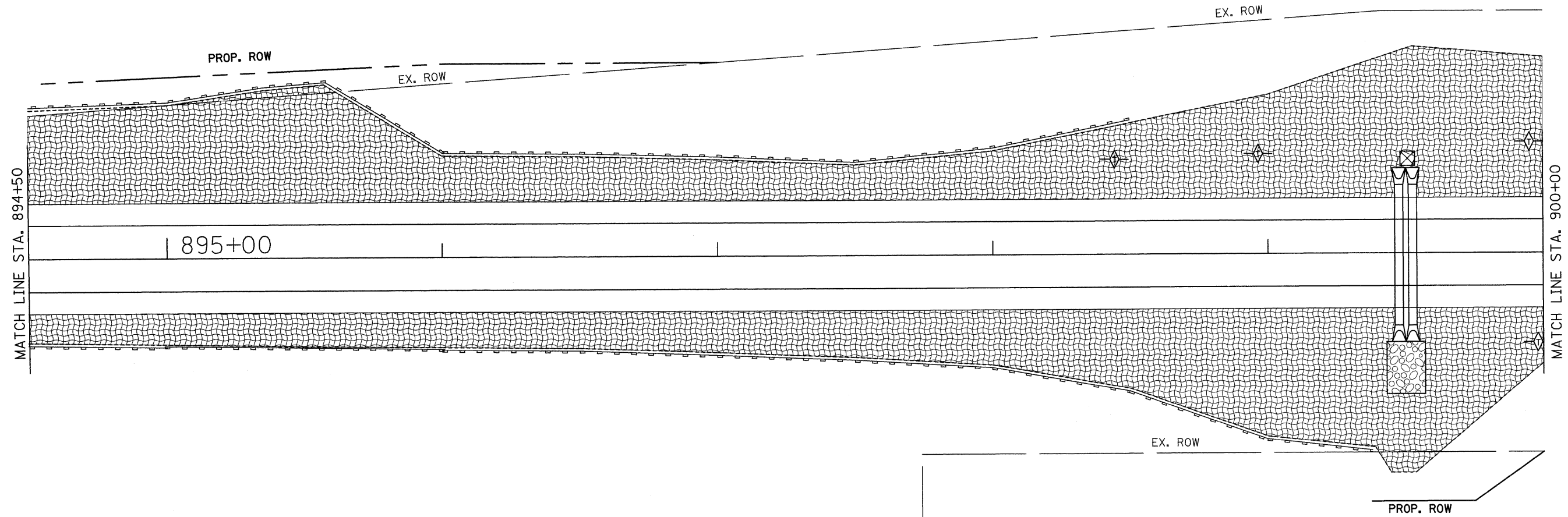


SEEDING DETAIL

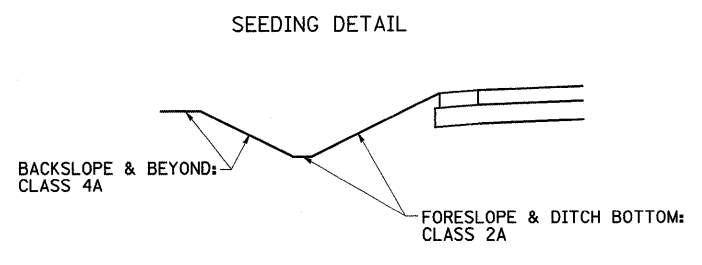
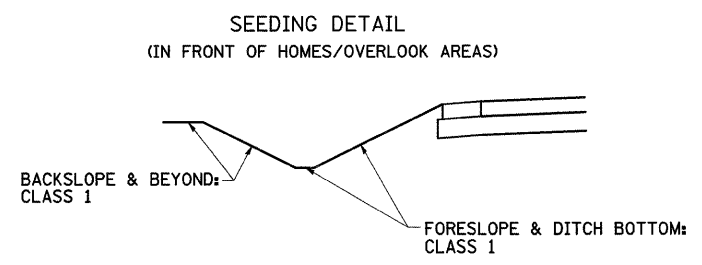


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PWIDOT\GRANTPM\dms31213\066206eros.dgn	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			742	37R-4	OGLE	867	289	
PLOT DATE = Tue Mar 30 10:49:19 2010	DATE -	REVISED -				CONTRACT NO. 64E17					
						SCALE:		SHEET NO. OF SHEETS		STA. TO STA.	

EROSION CONTROL DETAILS

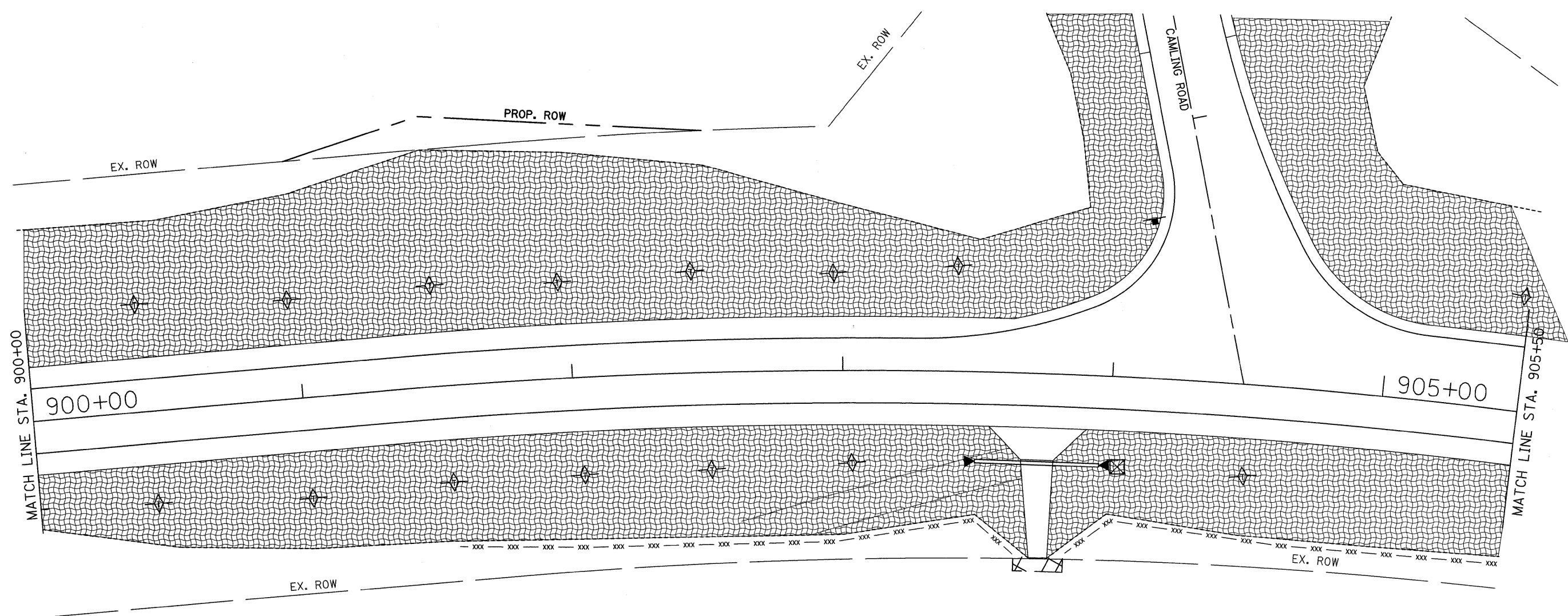


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

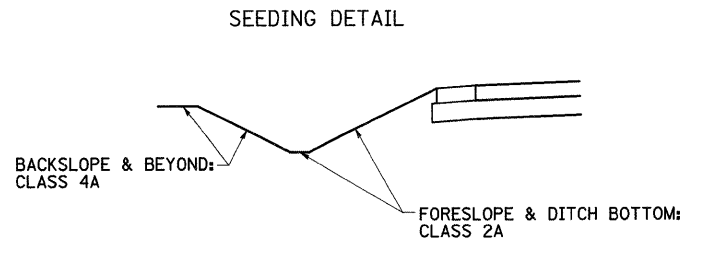
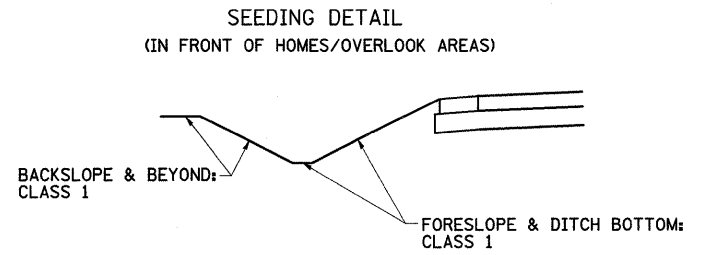


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\VP\WIDOT\GRANTPM\dms31213\086608eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	290	
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 10:49:21 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:		SHEET NO. OF SHEETS		STA. TO STA.	

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
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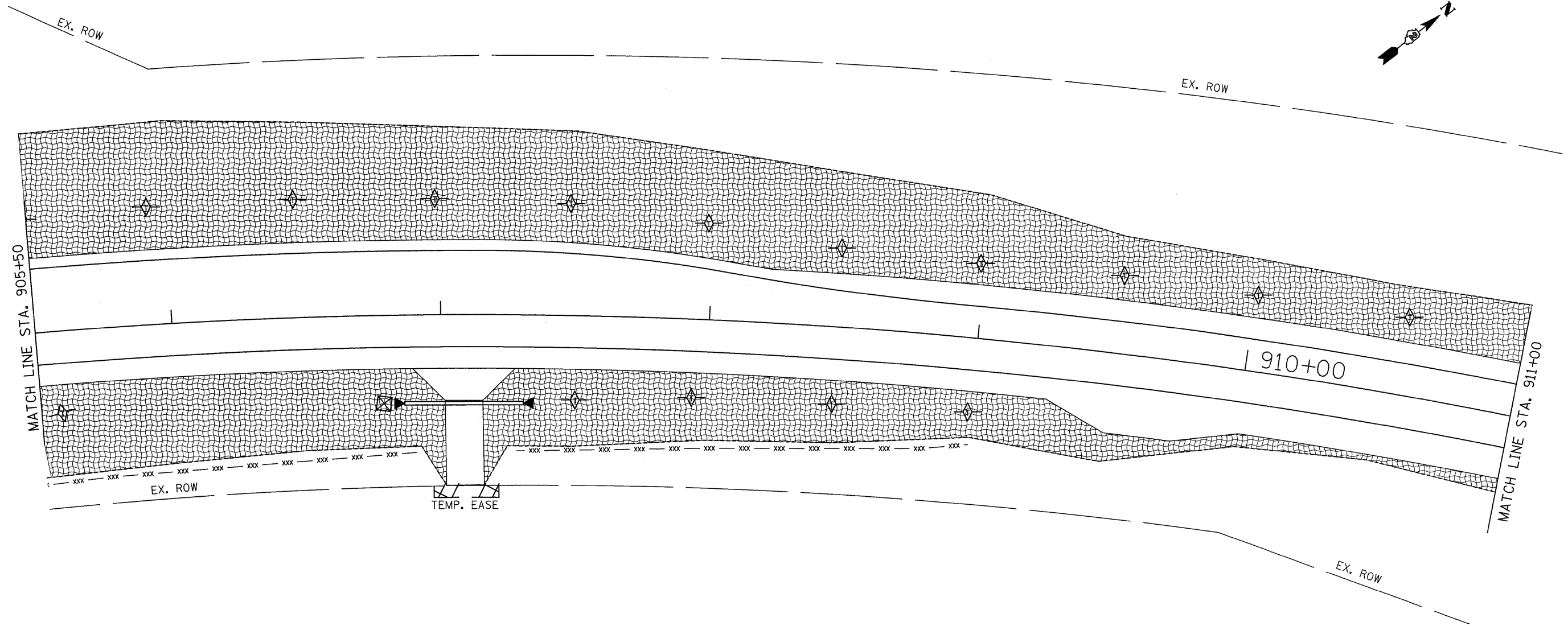
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pwork\PKWIDOT\GRANTPM\dms31213\d06628eros.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 10:49:25 2010		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

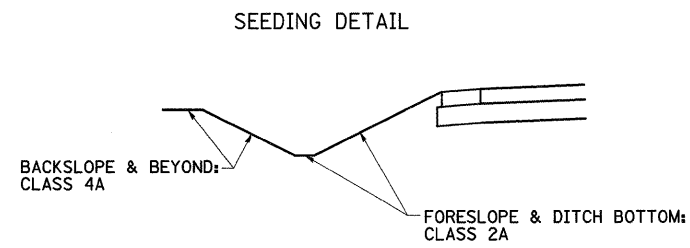
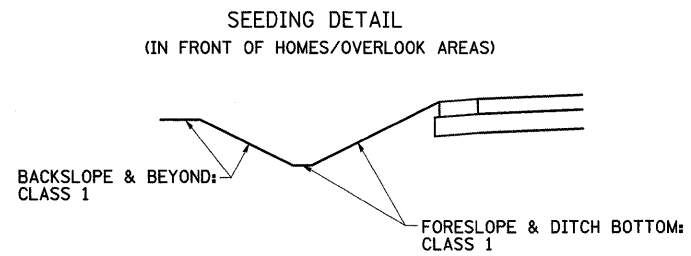
EROSION CONTROL DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	291
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64E17		

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
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- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct\pwwork\VPWIDOT\GRANTPM\dms31213\06608eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 10:49:29 2010	DATE -	REVISED -

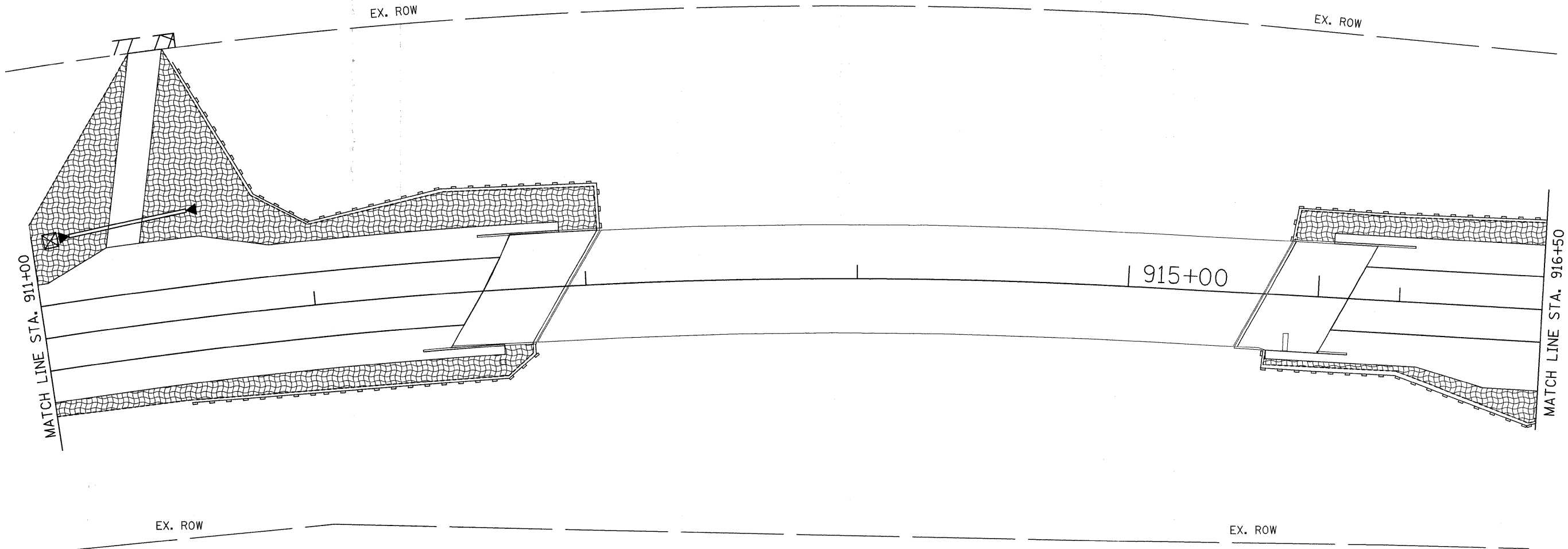
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

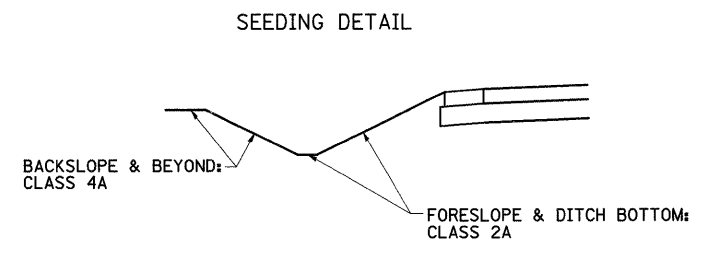
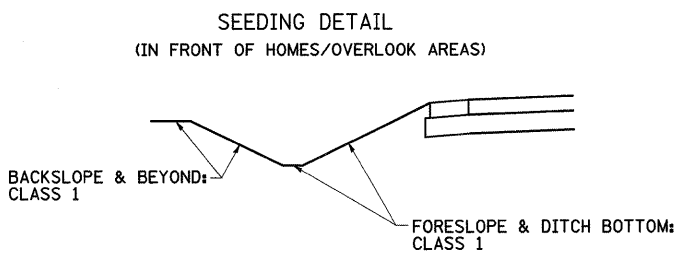
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	292
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EROSION CONTROL DETAILS



- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
or:\pwork\VPWIDOT\GRANTPM\dms31213\06628eros.dgn		DRAWN -	REVISED -
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	PLOT DATE = Tue Mar 30 10:49:32 2010	DATE -	REVISED -

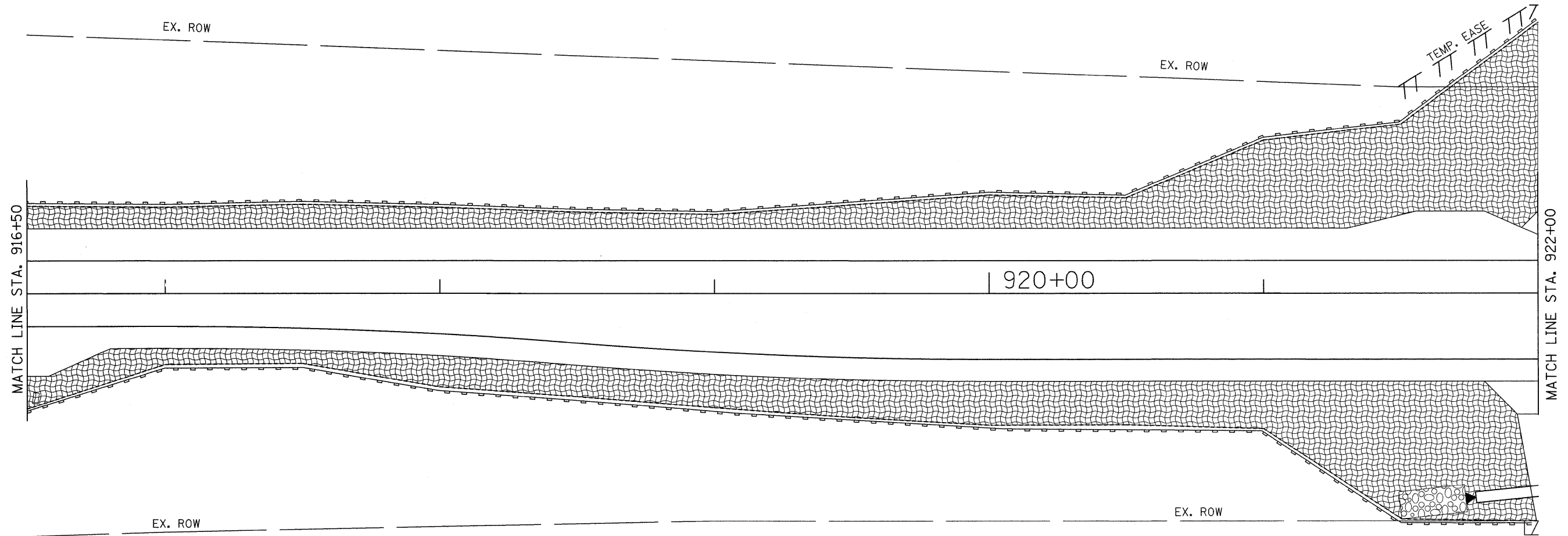
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

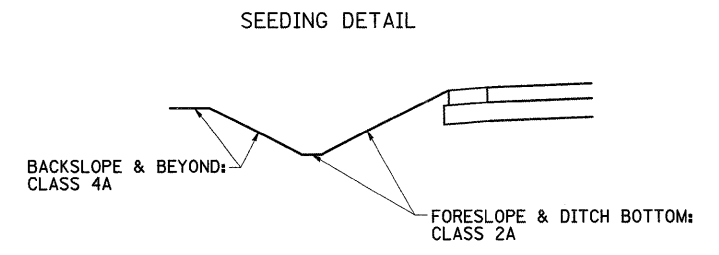
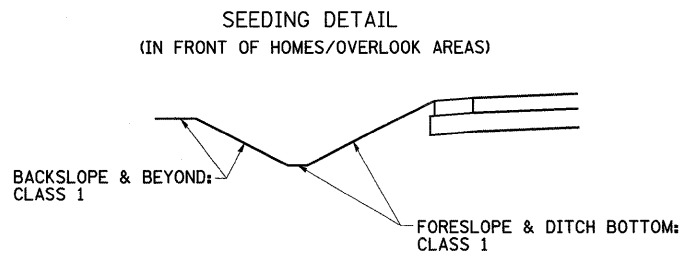
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	293
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64E17				

EROSION CONTROL DETAILS

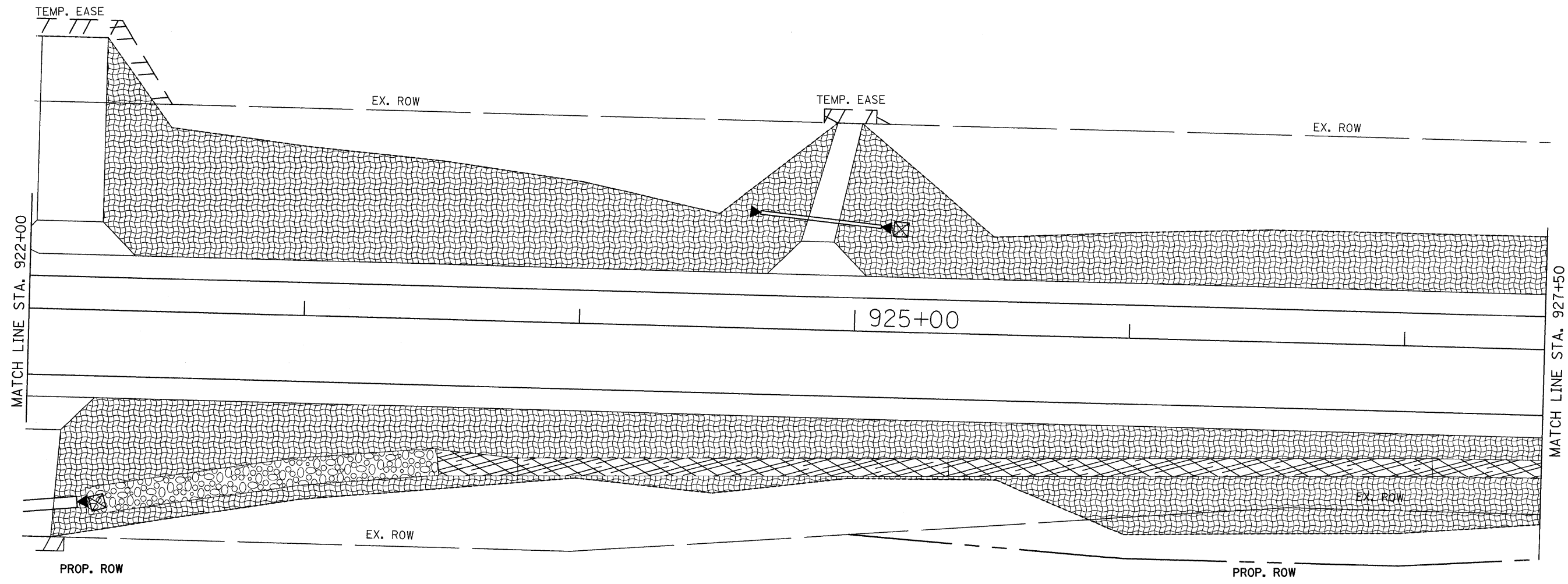


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

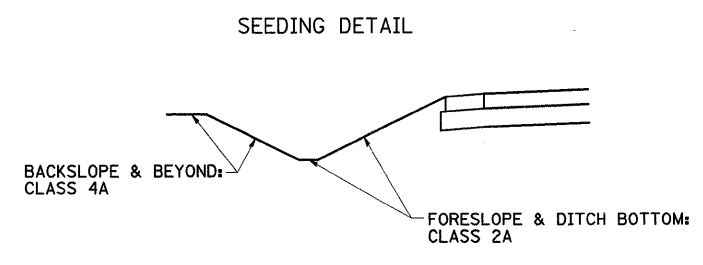
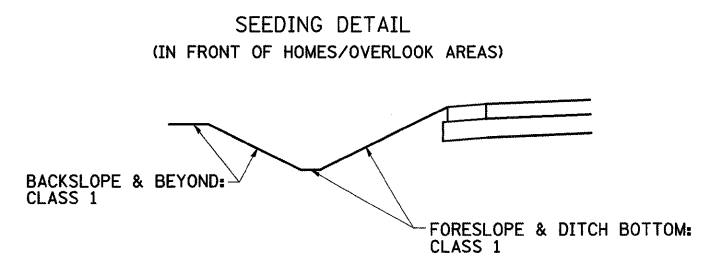


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	PLOT DATE = Tue Mar 30 10:49:33 2010	CHECKED -	REVISED -								
		DATE -	REVISED -								

EROSION CONTROL DETAILS



- = SEEDING OR SOD
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- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT



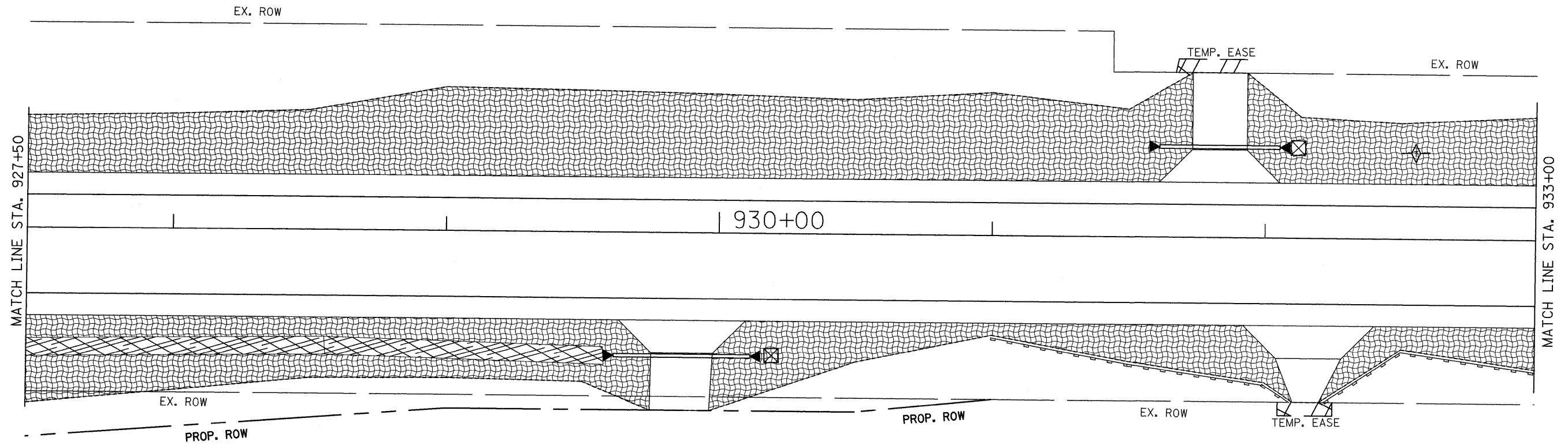
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

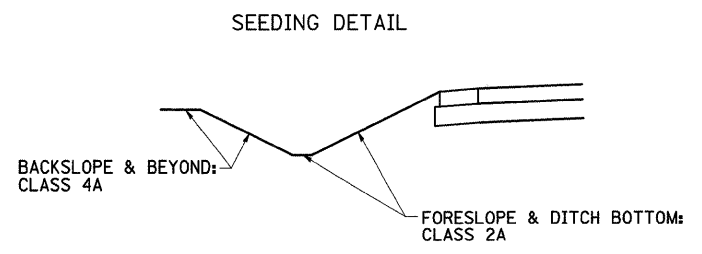
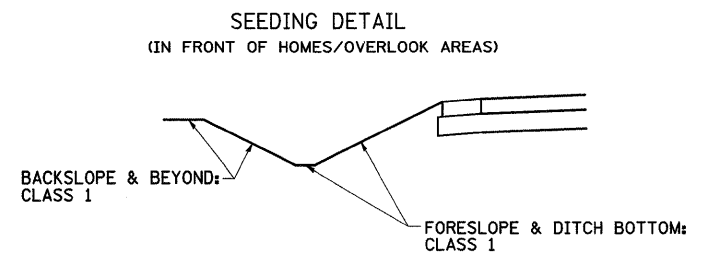
EROSION CONTROL DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	295
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EROSION CONTROL DETAILS

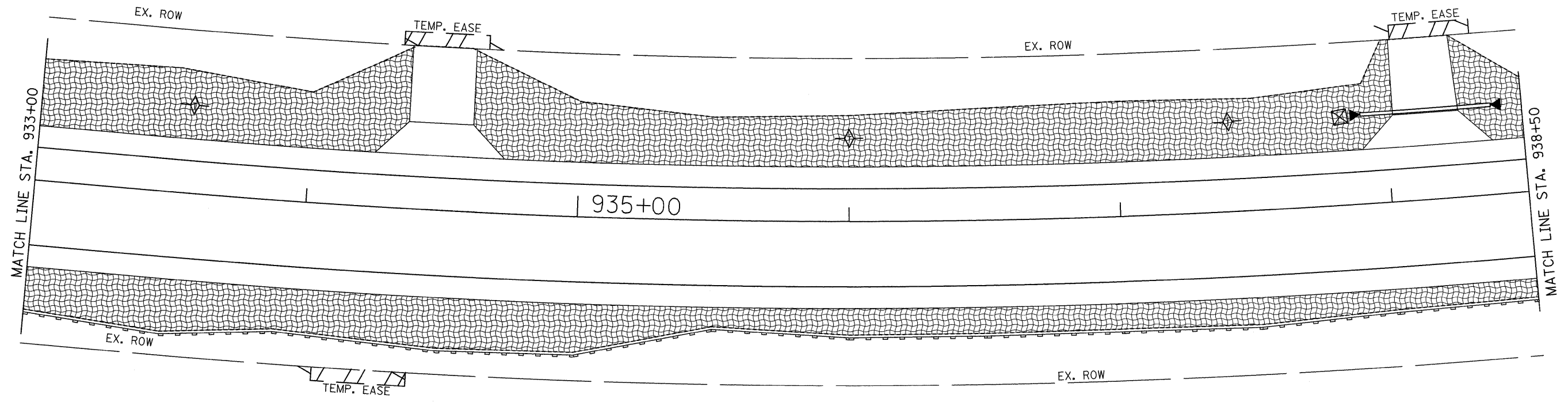
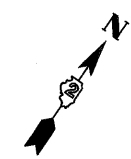


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

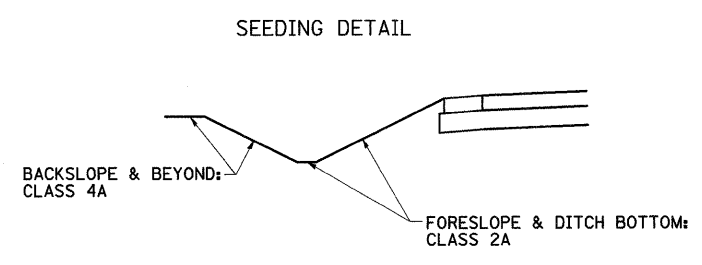
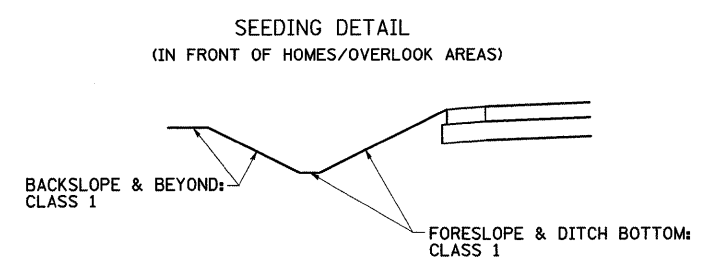


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\VP\WIDOT\GRANTPM\dms31213\07060808eros.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	296
PLOT DATE = Tue Mar 30 10:49:39 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

EROSION CONTROL DETAILS

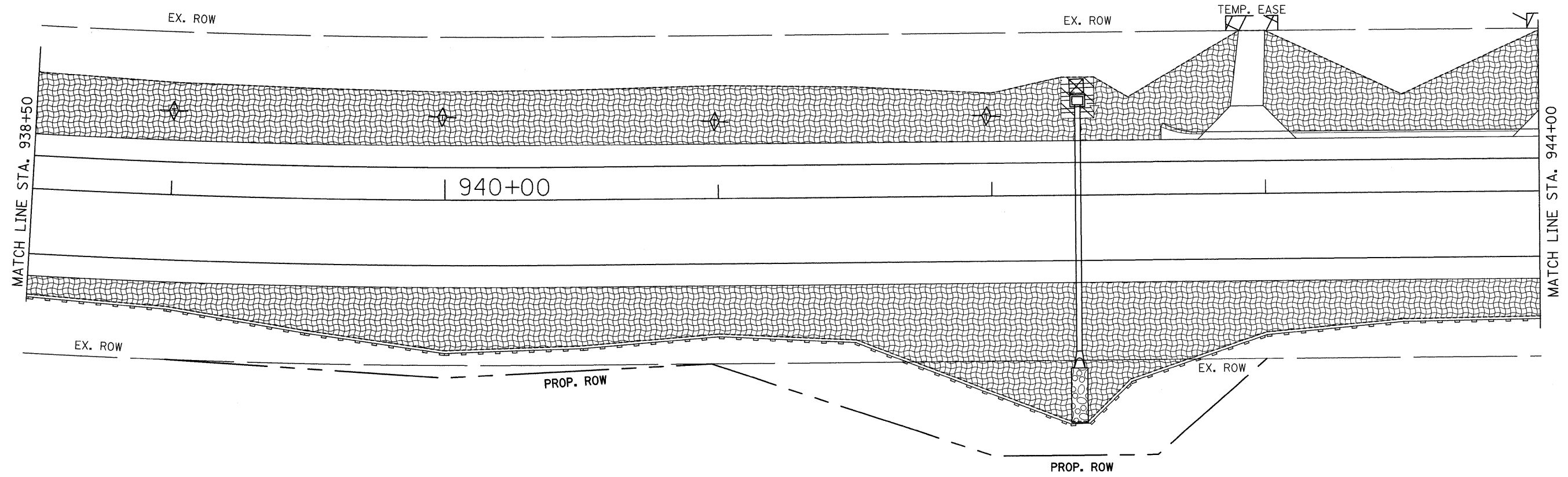
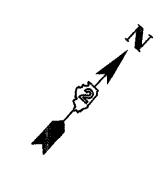


- = SEEDING OR SOD
- = TEMPORARY DITCH CHECKS
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- = PERIMETER EROSION BARRIER
- = INLET PIPE PROTECTION
- = RIP RAP
- = TURF REINFORCEMENT MAT
- = ARTICULATED BLOCK MAT

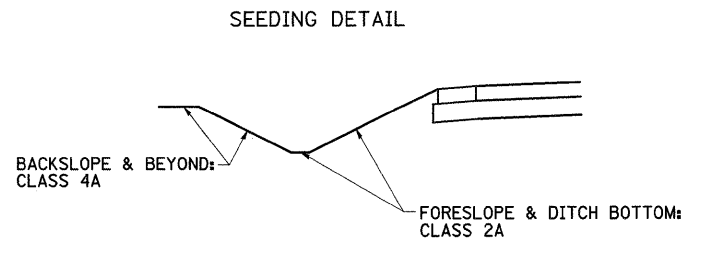
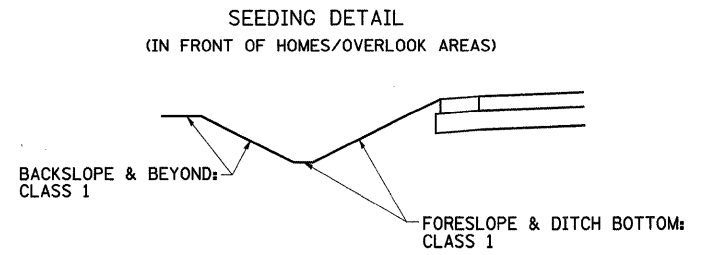


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Tue Mar 30 10:49:41 2010	DATE -	CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64E17			
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

EROSION CONTROL DETAILS

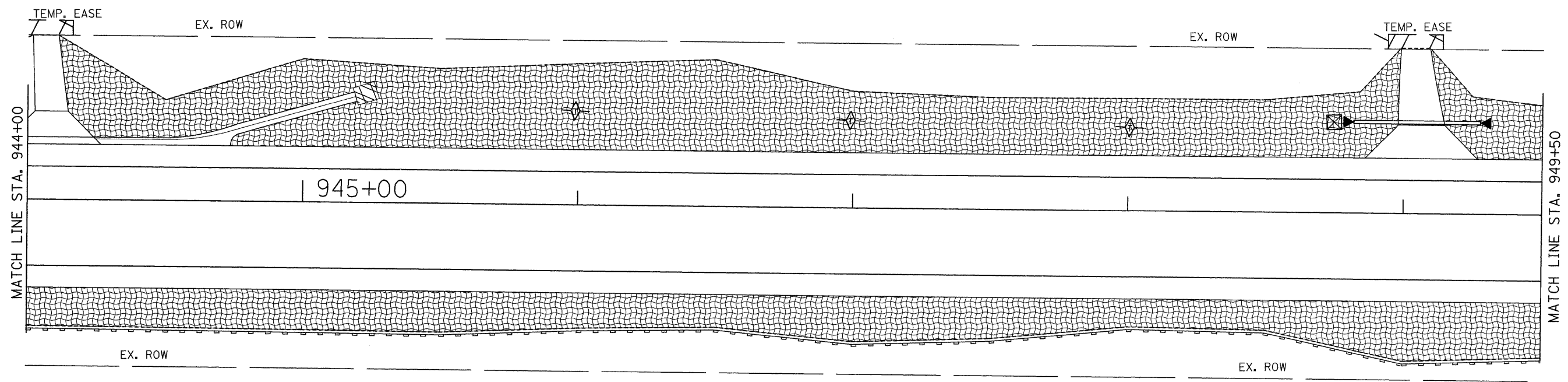
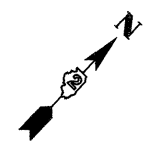


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- = TEMPORARY DITCH CHECKS
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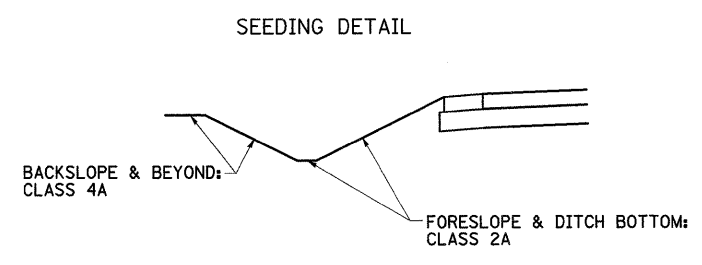
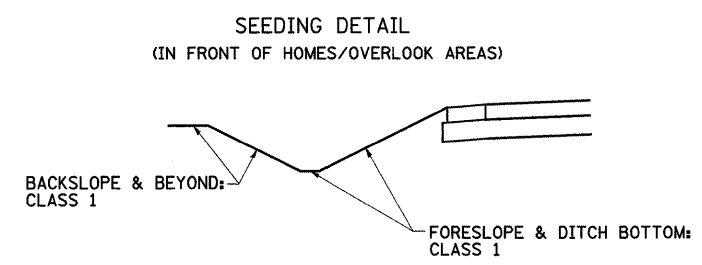


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Tue Mar 30 10:49:43 2010		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

EROSION CONTROL DETAILS

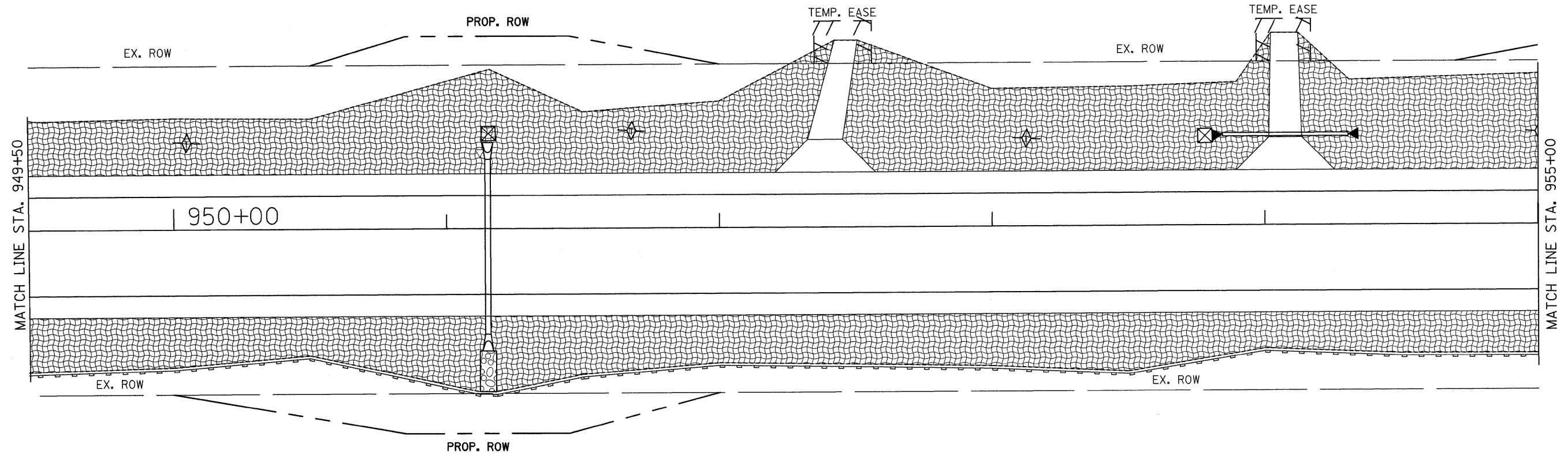
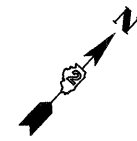


- = SEEDING OR SOD
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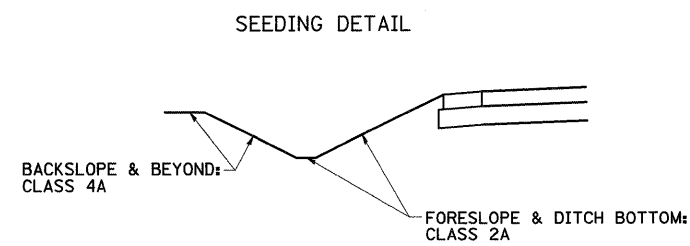
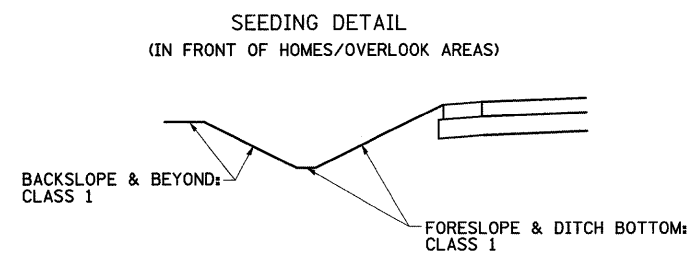


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

EROSION CONTROL DETAILS



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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr\pw_work\PWIDOT\GRANTPM\dms31213\d06688eros.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	300
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 10:49:48 2010		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	