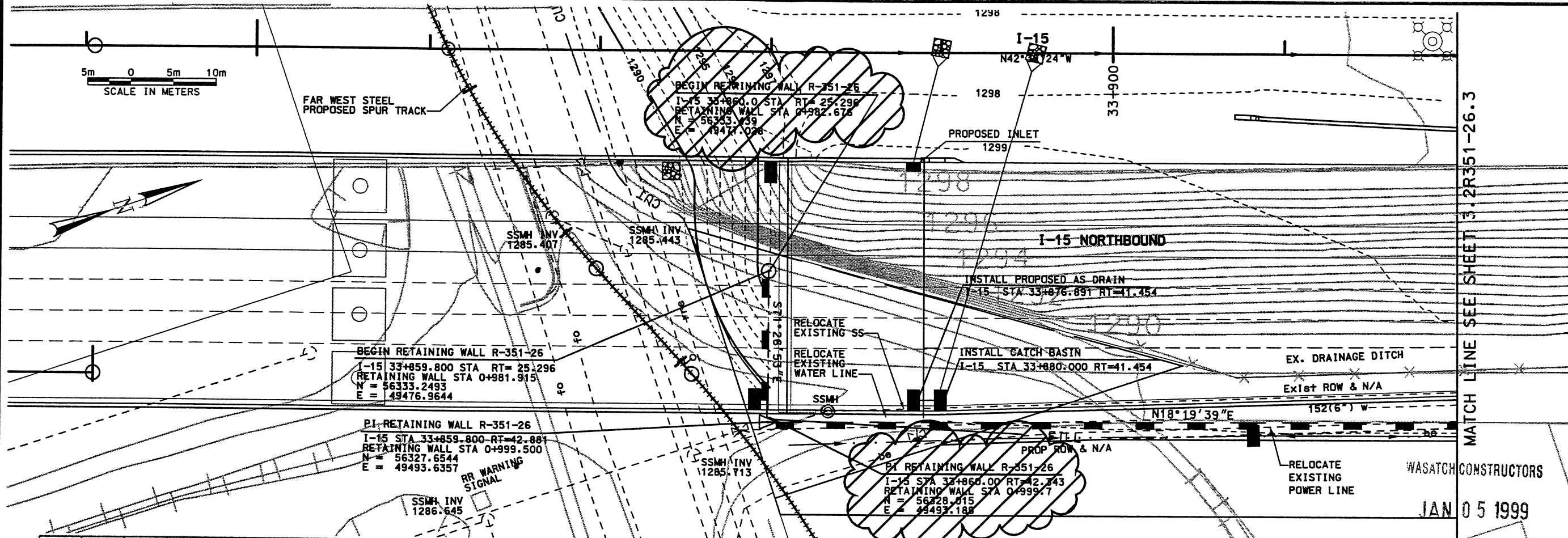


Date: 14-DEC-1998 Time: 15:44 User: rmcneil@blmmonjh



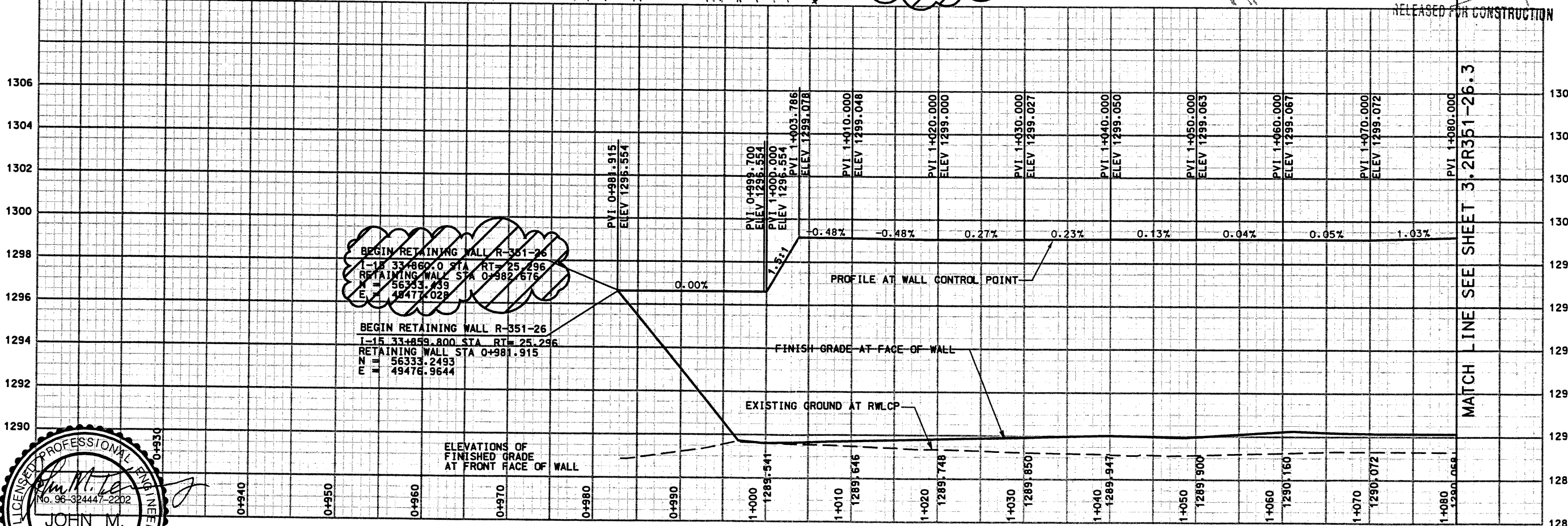
BEGIN RETAINING WALL R-351-26
I-15 STA 33+859.800 STA RT= 25.296
RETAINING WALL STA 0+981.915
N = 56333.2493
E = 49476.9644

PI-RETAINING WALL R-351-26
I-15 STA 33+859.800 RT=42.881
RETAINING WALL STA 0+999.500
N = 56327.6544
E = 49493.6357

PI-RETAINING WALL R-351-26
I-15 STA 33+860.000 RT=42.243
RETAINING WALL STA 0+999.7
N = 56328.015
E = 49493.188

MATCH LINE SEE SHEET 3.2R351-26.3

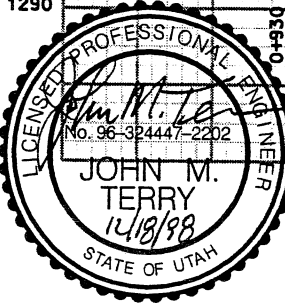
WASATCH CONSTRUCTORS
JAN 05 1999
RELEASED FOR CONSTRUCTION



BEGIN RETAINING WALL R-351-26
I-15 STA 33+860.000 STA RT= 25.296
RETAINING WALL STA 0+982.676
N = 56333.2493
E = 49476.9644

BEGIN RETAINING WALL R-351-26
I-15 STA 33+859.800 STA RT= 25.296
RETAINING WALL STA 0+981.915
N = 56333.2493
E = 49476.9644

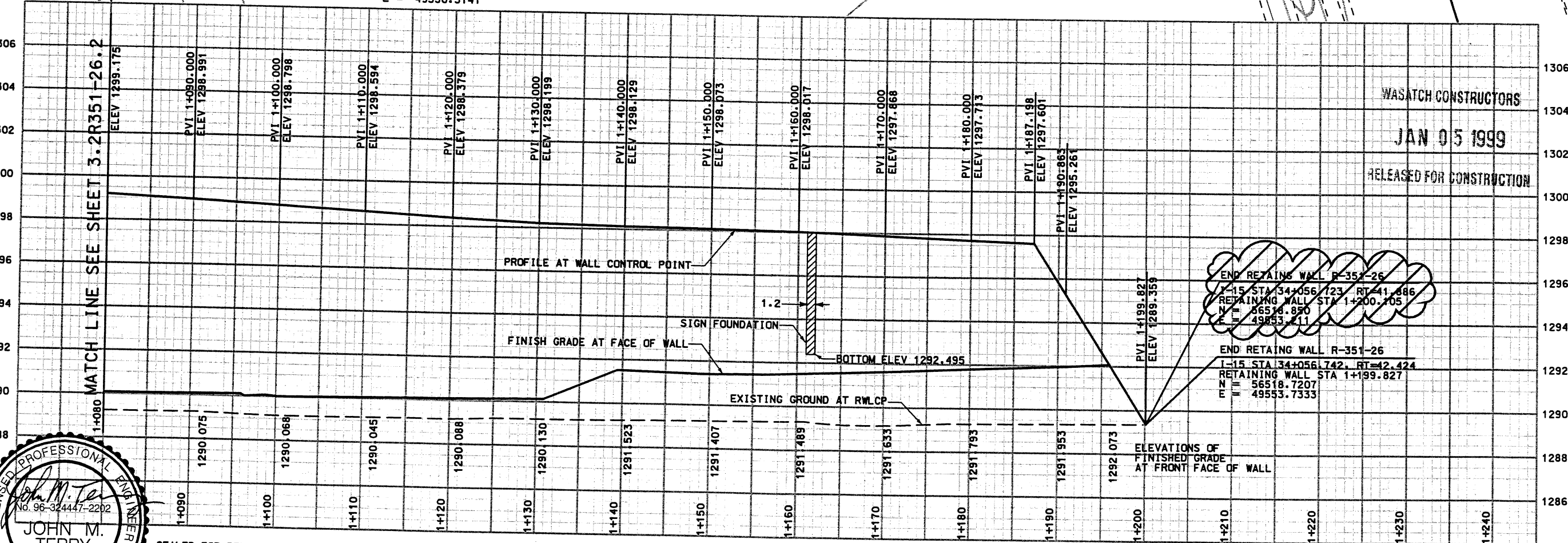
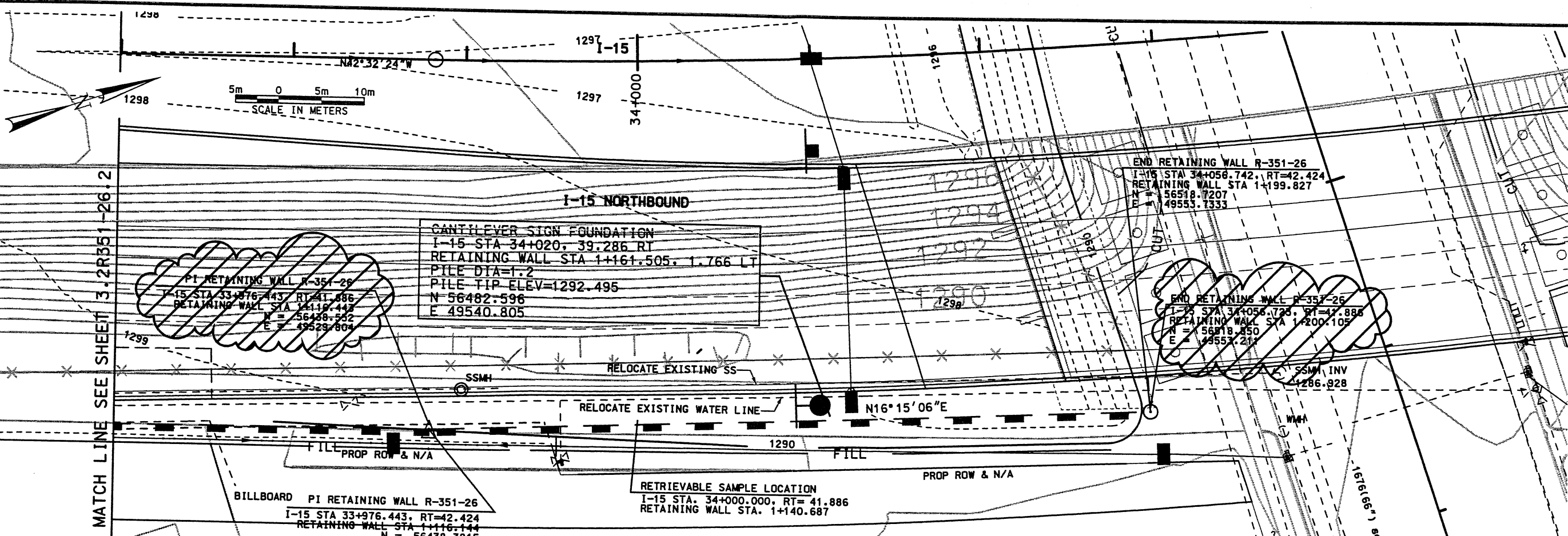
WALL 351-26



SEALED FOR RELEASE NO. 4 ONLY
(REALIGNMENT OF RETAINING WALL
CONTROL POINT DUE TO FIRST STAGE
SETTLEMENT AND SECOND STAGE
MSE PANEL REALIGNMENT)

APPROVED FOR CONSTRUCTION		NO.		DATE		DESCRIPTION	
		A		10/06/97		RELEASE FOR USE WALL STAGE 1 ONLY	
		A		11/11/97		RELEASE FOR USE WALL STAGE 1 ONLY	
		A		12/11/97		RELEASE FOR REVISED A-S. DRAIN AND CATCH BASIN LOCATION	
		A		12/14/98		RELEASE FOR 2ND STAGE CONSTRUCTION ONLY	
UTAH DEPARTMENT OF TRANSPORTATION				SVERDRUP/DE LEUW			
I-15 CORRIDOR RECONSTRUCTION		SECTION 3.2		PROJECT NUMBER		*SP-15-7(135)296	
SITUATION & LAYOUT		SECTION 3.2		APPROVAL		DATE	
				DESIGN JFA 09/28/97		CHECK KS 09/28/97	
				PROJECT DESIGN ENGINEER		DRAWN F.J.G 09/28/97	
				DATE		CHECK KS 09/28/97	
				APPROVED 09/28/97		DATE	
				KEITH SABOL		SECTION MANAGER	
				QUANT.		3212412	
SALT LAKE COUNTY		DWG. NO.		3.2-R351-26.1			
SHT. 1		OF		17			

Filename: c:\p\dgn\15_cadd\06_371_sheets\files\wall\06_wall_26b.dgn Date: 14-DEC-1998 Time: 15:55 User: ericsson/jh

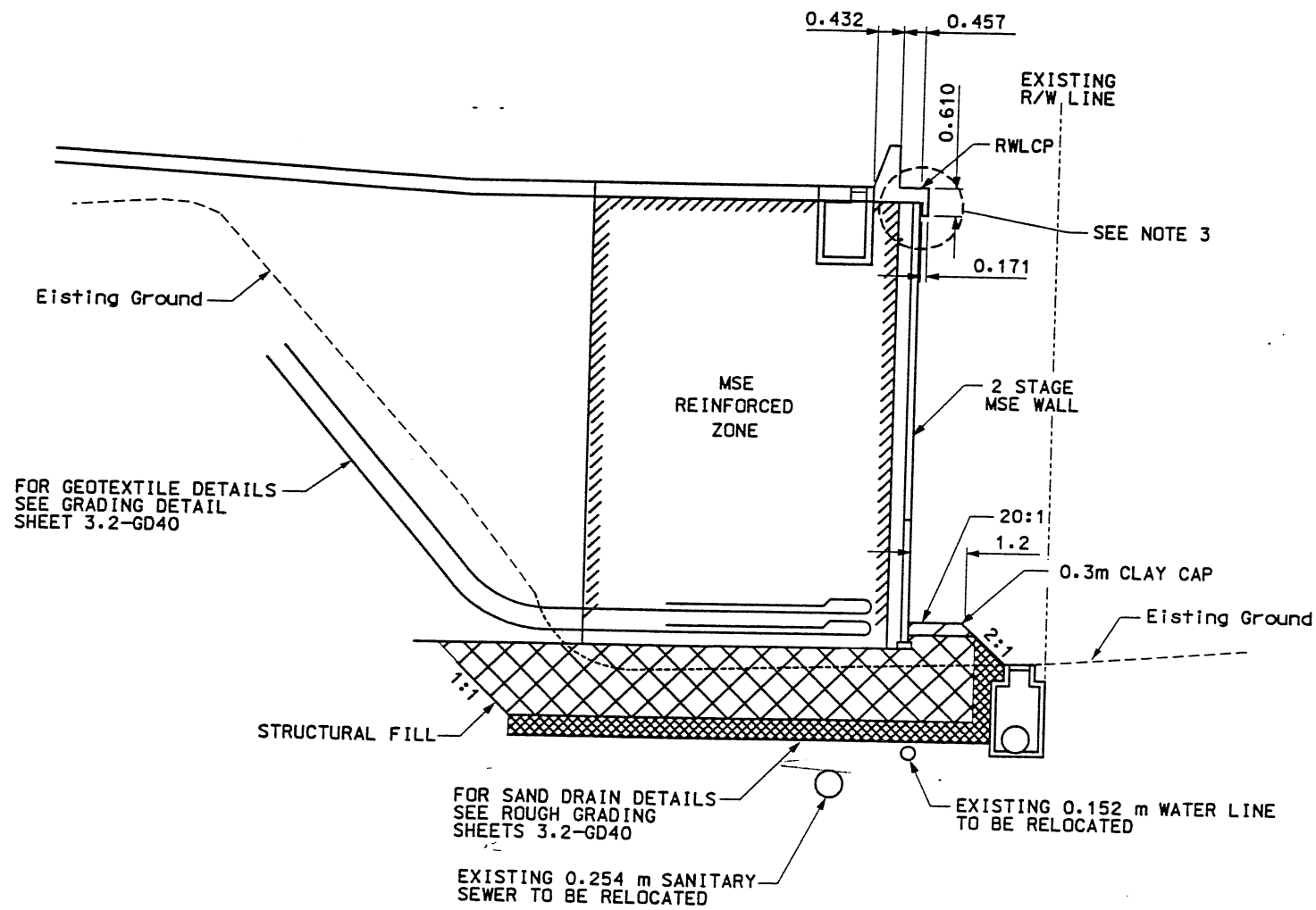


SEALED FOR RELEASE NO. 4 ONLY (REALIGNMENT OF RETAINING WALL CONTROL POINT DUE TO FIRST STAGE SETTLEMENT AND SECOND STAGE MSE PANEL REALIGNMENT)

WALL R-351-26

APPROVED FOR CONSTRUCTION			
NO.	DATE	DESCRIPTION	
Δ	10/06/97	RELEASE FOR MSE WALL STAGE 1 ONLY	
Δ	11/11/97	RELEASE FOR SIGN FOUNDATION	
Δ	02/19/98	RELEASE FOR SIGN FOUNDATION	
Δ	12/14/98	RELEASE FOR 2ND STAGE CONSTRUCTION ONLY	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
DESIGN	JFA 09/26/97	CHECK	KS 09/26/97
DRAWN	F.J.G. 09/26/97	CHECK	KS 09/26/97
SECTION MANAGER	KEITH SABOL	CHECK	
DATE	09/26/97	QUANT.	3212412
I-15 CORRIDOR RECONSTRUCTION		SITUATION LAYOUT	
SECTION 3.2		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-26.2	
SHT. 2		OF 17	

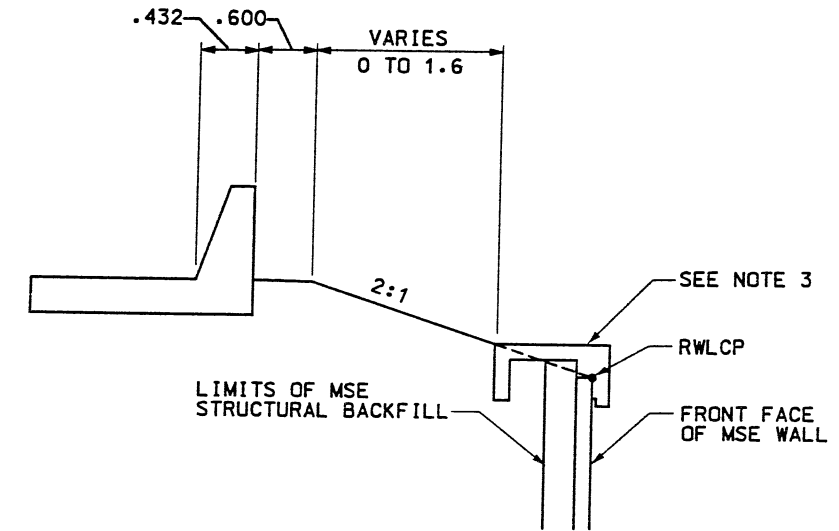
WASATCH CONSTRUCTORS
JAN 05 1999
RELEASED FOR CONSTRUCTION



RETAINING WALL DETAILS

NTS

WALL R351-26
2 STAGE MSE



MSE WALL DETAIL

NTS

STA 1+066.978 TO 1+187.198
(RETAINING WALL STATION)

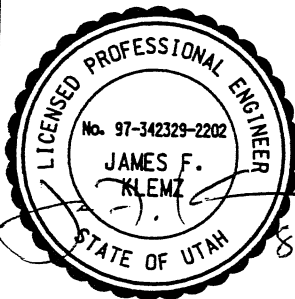
WASATCH CONSTRUCTORS

AUG 31 1999

RELEASED FOR CONSTRUCTION

NOTES:

- 1) OVEREXCAVATE EXISTING SOILS AS NOTED ON SHEET 3.2R351-26.8. REFILL EXCAVATION WITH STRUCTURAL FILL AS PER CORRIDOR STANDARD SPECIFICATION 220.2.
- 2) CONSTRUCT 0.3m CLAY CAP WITH LOW PLASTIC SILTY CLAY AS PER CORRIDOR STANDARD SPECIFICATION.
- 3) FOR THE COPING DETAIL FOR STATION 0+981.915 TO 1+017.300 SEE CORRIDOR STANDARD PLAN CS-54
FOR THE COPING DETAIL FOR STATION 1+017.300 TO 1+066.978 SEE CORRIDOR STANDARD PLAN CS-29.
FOR THE COPING DETAIL FOR STATION 1+066.978 TO 1+187.198 SEE CORRIDOR STANDARD PLAN CS-30-2 (CIP GUTTER).



APPROVED FOR CONSTRUCTION	
NO.	DATE
1	08/26/97
2	11/20/98
3	08/13/99

UTAH DEPARTMENT OF TRANSPORTATION	
SVERDRUP/DE LEUW	
DESIGN	CHECK
JFA 11/20/98	KS 11/20/98
FUG 11/20/98	KS 11/20/98
QUANT.	CHECK
3212412	

1-15 CORRIDOR RECONSTRUCTION	
TYPICAL SECTION	
SECTION 3.2	
PROJECT NUMBER	QUANT.
*SP-15-7(135)296	

2ND STAGE DESIGN
BASED ON POST SETTLEMENT SURVEY OF THE
WIRE FACE, LATERAL OUT WARD DISPLACEMENTS
RANGED FROM 127mm TO 487mm MEASURED
AT THE BASE OF THE WALL.

MEET
BRIDGE

WIRE FACED WALL STA 1+199.191 =
I-15 STA 34+056.742
● 41.429 RT
END WIRE FACED WALL R-351-26

PRECAST WALL STA 1+199.827 =
I-15 STA 34+056.742
● 42.424 RT
END PRECAST WALL R-351-26

PRECAST WALL STA 1+200.105 =
I-15 STA 34+056.742
● 41.886 RT
END PRECAST WALL R-351-26

SIGN ● I-15 STA 34+020.000
(WALL STA 1+161.555)

WIRE FACED WALL STA 1+115.529 =
I-15 STA 33+976.443
● 41.429 RT

PRECAST WALL STA 1+116.144 =
I-15 STA 33+976.443
● 42.424 RT

PRECAST WALL STA 1+116.443 =
I-15 STA 33+976.443
● 41.886 RT

I-15 STA 33+861.500
● BRG

MEET
BRIDGE

WIRE FACED WALL STA 0+982.676 =
I-15 STA 33+860.457
● 25.296 RT
BEGIN WIRE FACED WALL R-351-26

PRECAST WALL STA 0+981.915 =
I-15 STA 33+859.800
● 25.296 RT
BEGIN PRECAST WALL R-351-26

PRECAST WALL STA 0+982.676 =
I-15 STA 33+860.000
● 25.296 RT
BEGIN PRECAST WALL R-351-26

PRECAST WALL STA 0+999.500 =
I-15 STA 33+859.800
● 42.881 RT

PRECAST WALL STA 0+999.700 =
I-15 STA 33+860.000
● 42.343 RT

WIRE FACED WALL STA 0+999.243 =
I-15 STA 33+860.457
● 41.886 RT

PLAN VIEW MSE WALL "R-351-26"

SCALE: 1=500 (FULL SIZE)
SCALE: 1=1000 (HALF SIZE)

DESIGN PARAMETERS

ANGLE OF INTERNAL FRICTION (SELECT) = 34°
ANGLE OF INTERNAL FRICTION (BASE) = 30°
ANGLE OF INTERNAL FRICTION (RANDOM) = 34°
UNIT WEIGHT BACKFILL = 135 PCF.
TRAFFIC SURCHARGE = 250 PSF
SEISMIC ACCELERATION COEFF. = 0.27g (TYP)
SEISMIC ACCELERATION COEFF. = 0.68g (AT BRIDGE ABUTMENTS)

DESIGN CRITERIA

SAFETY FACTOR (OVERTURNING) = 2.0
SAFETY FACTOR (SLIDING) = 1.5
SAFETY FACTOR (PULLOUT) = 1.5
DESIGN LIFE = 75 YEARS

RETAINED EARTH INDEX

RE-1	PLAN WIRE FACED WALL R-351-26, NOTES & DESIGN CRITERIA
RE-2	WALL CONNECTION DETAILS ● STAGE CONST.
RE-3	TYPICAL DETAILS
RE-4	TYPICAL CROSS SECTIONS ● WIRE FACED WALL
RE-5	TYPICAL CROSS SECTIONS
RE-6	TYPICAL CROSS SECTIONS
RE-7	WIRE FACED WALL R-351-26
RE-8	WIRE FACED WALL R-351-26
RE-9	WIRE FACED WALL R-351-26
RE-10	WIRE FACED WALL R-351-26
RE-11	PRECAST WALL R-351-26
RE-12	PRECAST WALL R-351-26
RE-13	PRECAST WALL R-351-26
RE-14	PRECAST WALL R-351-26
RE-15	SPECIAL PANEL DETAILS
RE-16	SPECIAL PANEL DETAILS
RE-17	SPECIAL PANEL DETAILS

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	10-06-97	RELEASE FOR 1ST STAGE CONSTRUCTION ONLY
2	11-11-97	REVISED PLAN VIEW
3	12-14-98	RELEASE FOR 2ND STAGE CONSTRUCTION

DES.	CHK.	DRN.	MM	RSW	MM	NO.	DATE

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Fac: (919) 781-1999

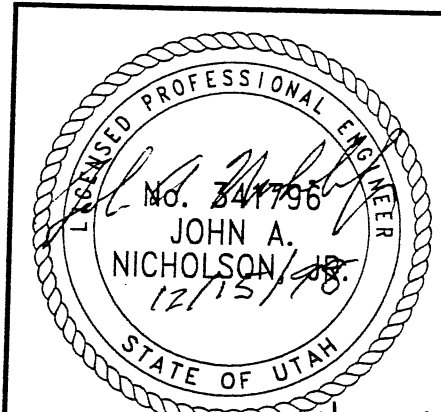


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WASATCH CONSTRUCTORS

JAN 05 1999

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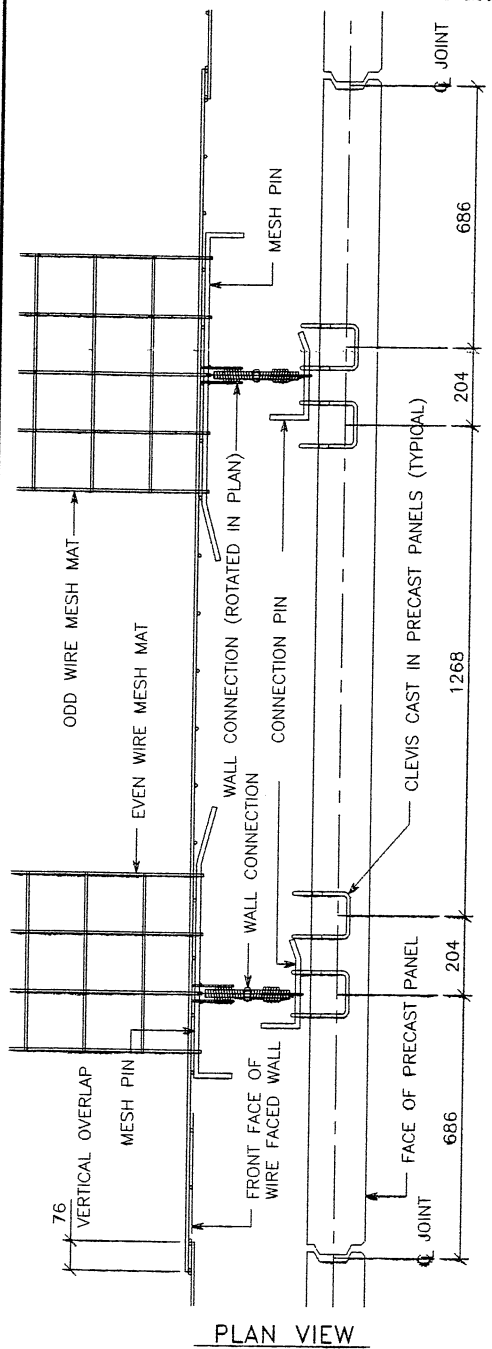
RETAINED EARTH™ WALLS
PLAN VIEW MSE WALL "R-351-26"
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2R-351-26.4
JOB NO.	239-0007
SHT. NO.	RE-1

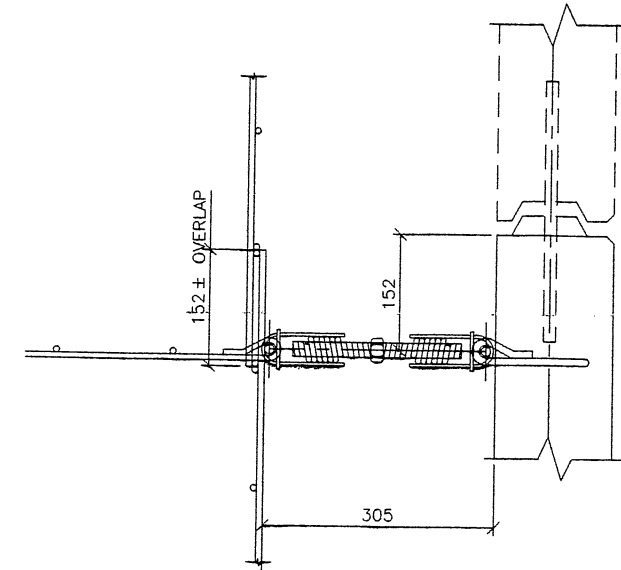
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STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO
THE MANUFACTURER'S SPECIFICATION.

E:\PROJECT\239-000\WALLS\6S-26\RE-2

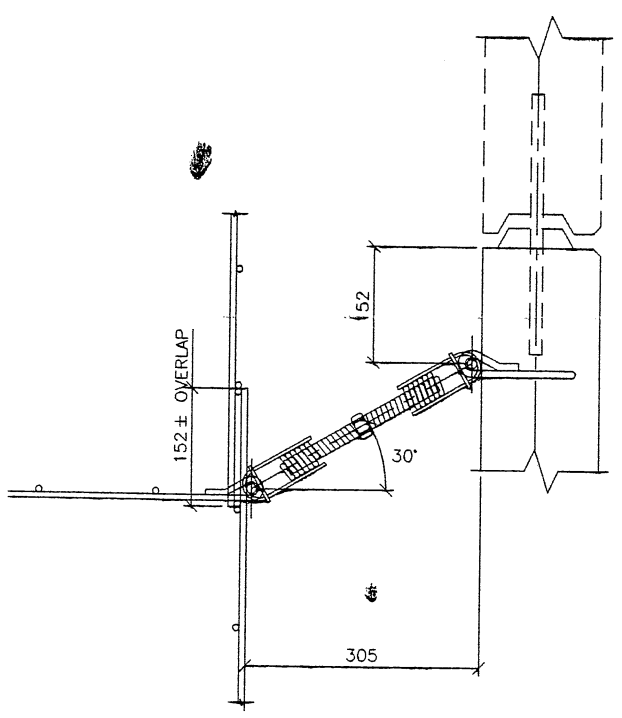
FINAL PL 09-15-97



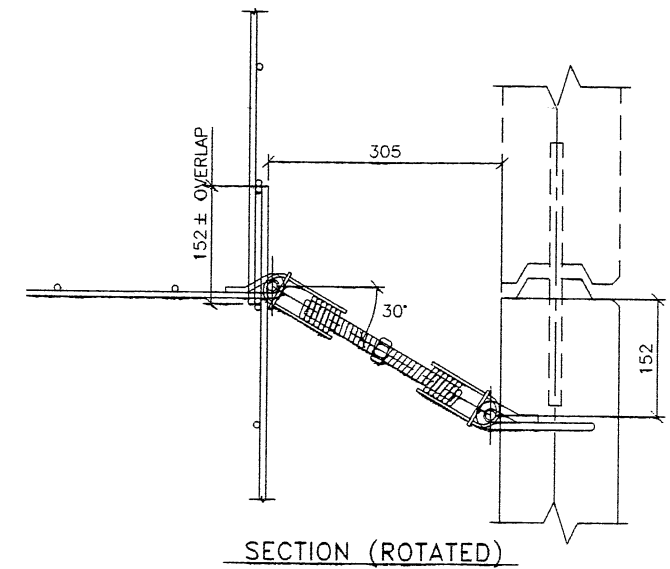
PLAN VIEW



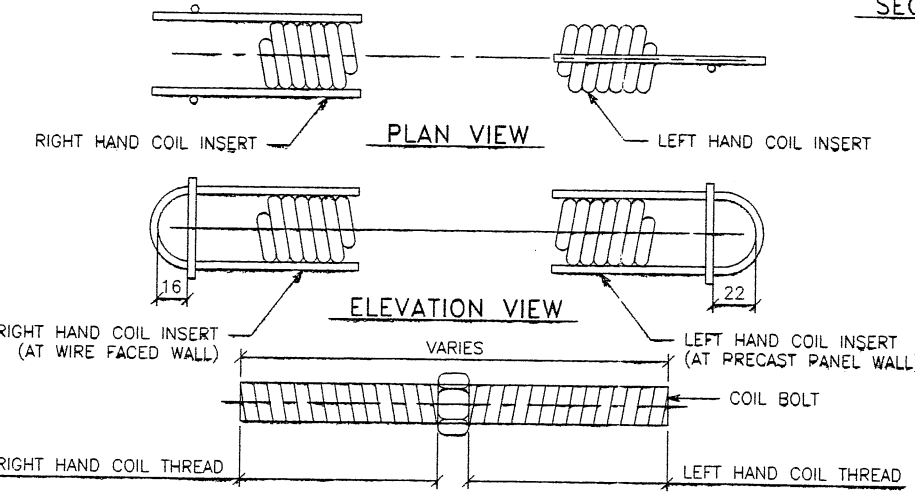
SECTION (FLAT)



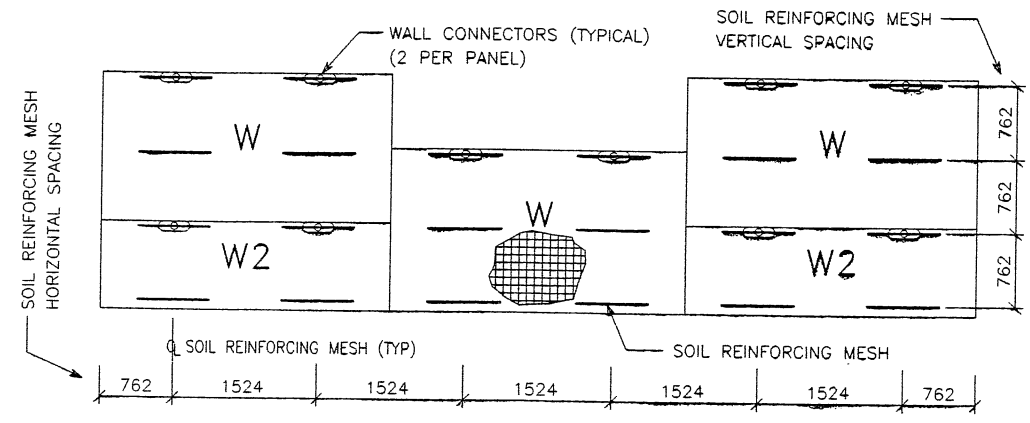
SECTION (ROTATED)



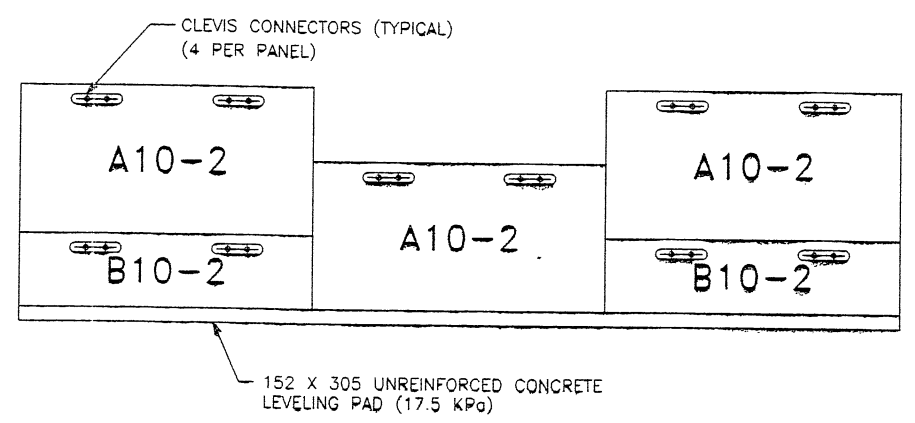
SECTION (ROTATED)



WALL CONNECTION DETAIL



TYPICAL WIRE FACED WALL ELEVATION (WIRE FACE PANELS)

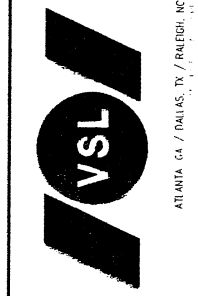


TYPICAL PRECAST WALL ELEVATION (PRECAST PANELS)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY <i>ov</i>

WABATCH CONSTRUCTORS
OCT 08 1997
RELEASED FOR CONSTRUCTION

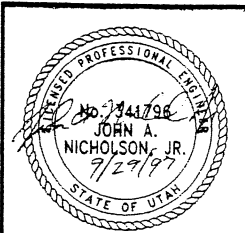
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RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-26"
WALL CONNECTION DETAILS @ STAGE CONST.
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

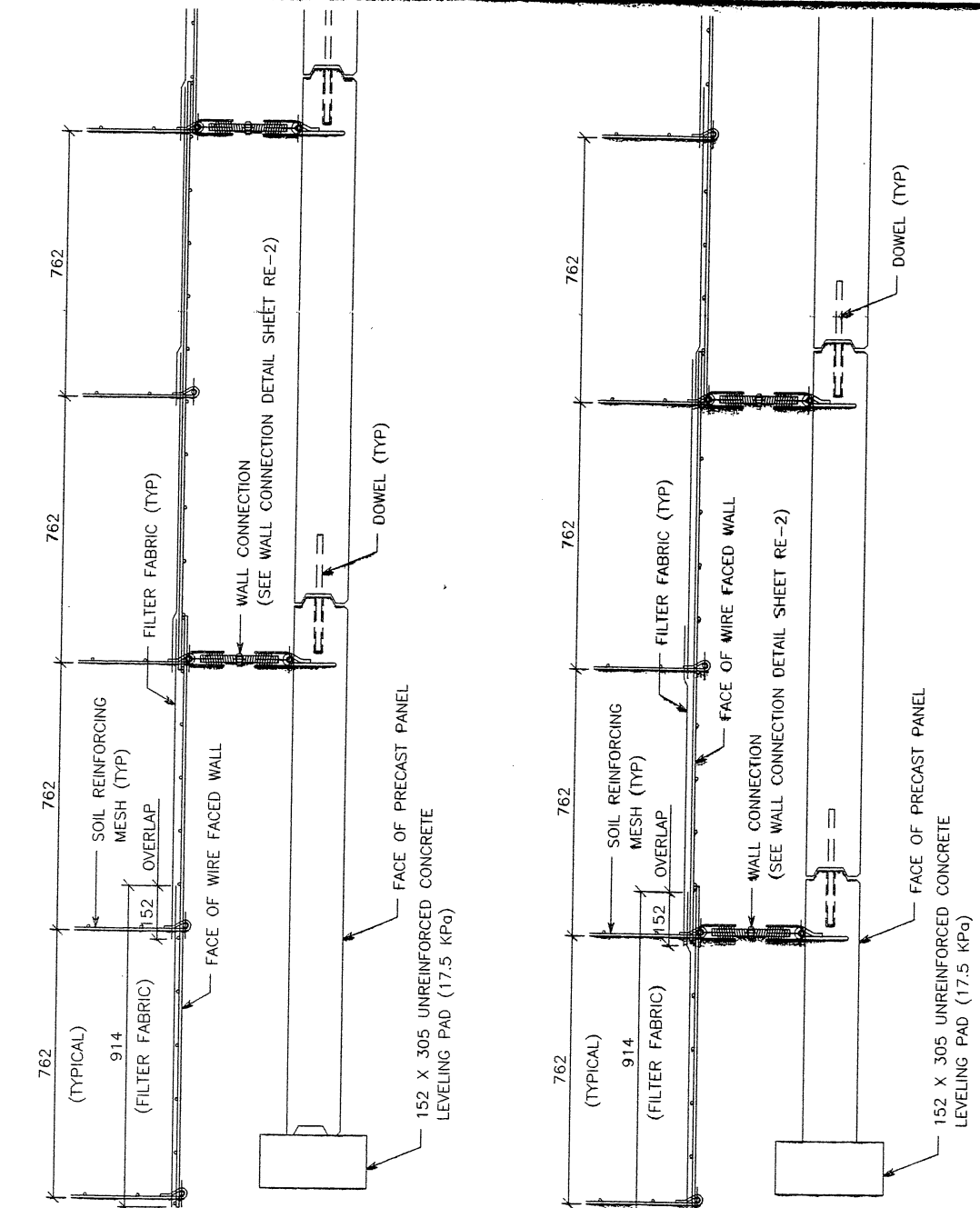
METRIC



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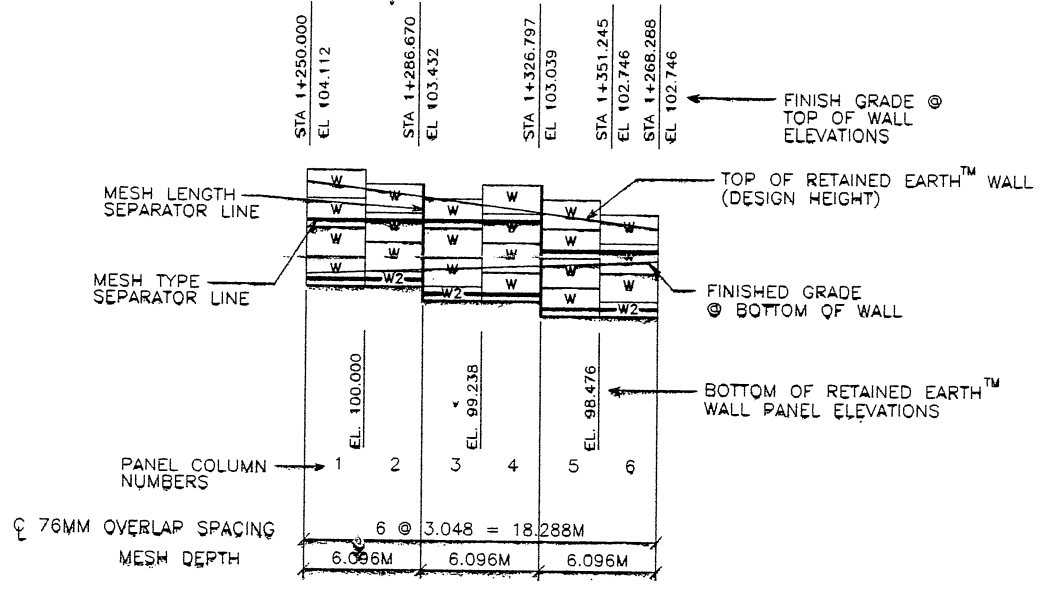
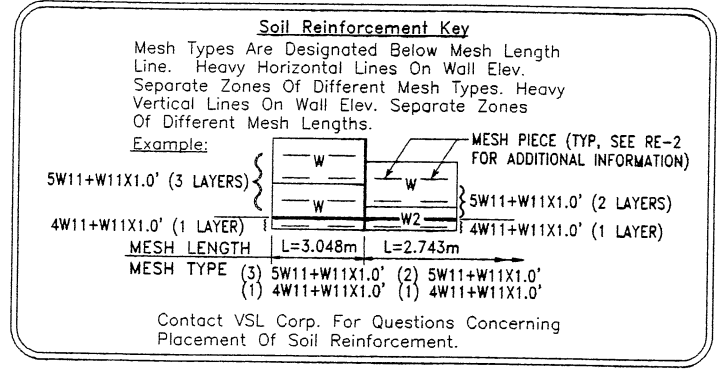
DWG. NO.	3.2R-351-26.5
JOB NO.	239-0007
SHT. NO.	RE-2

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY

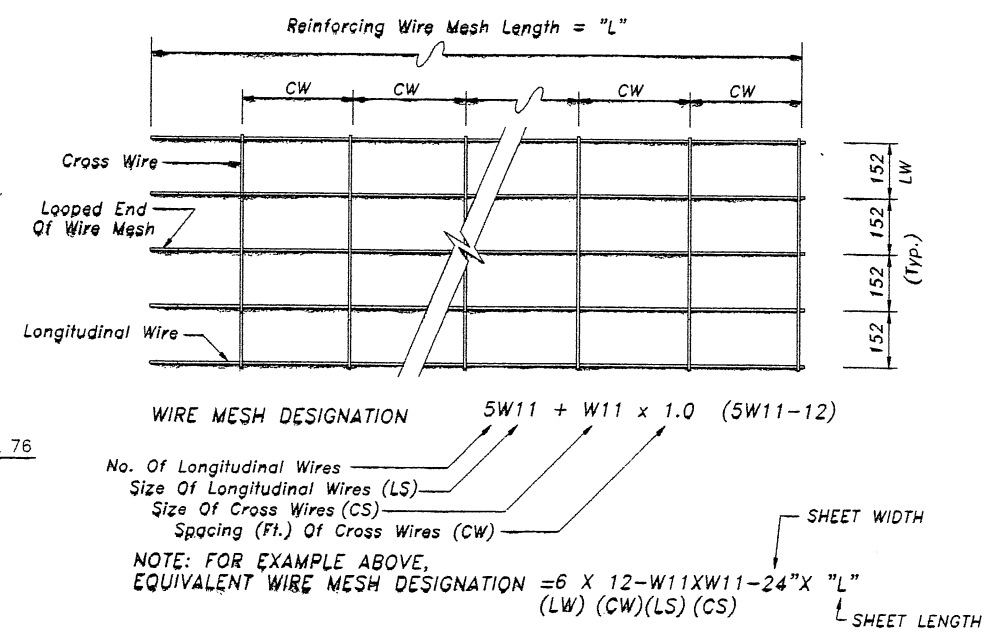
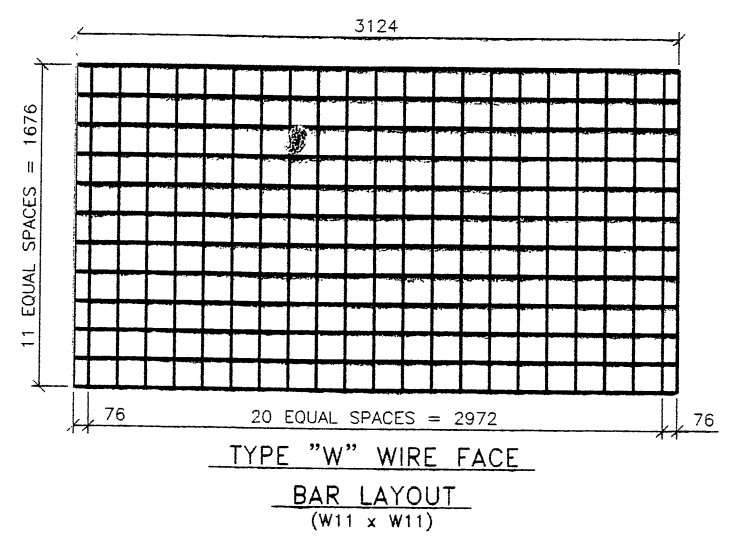
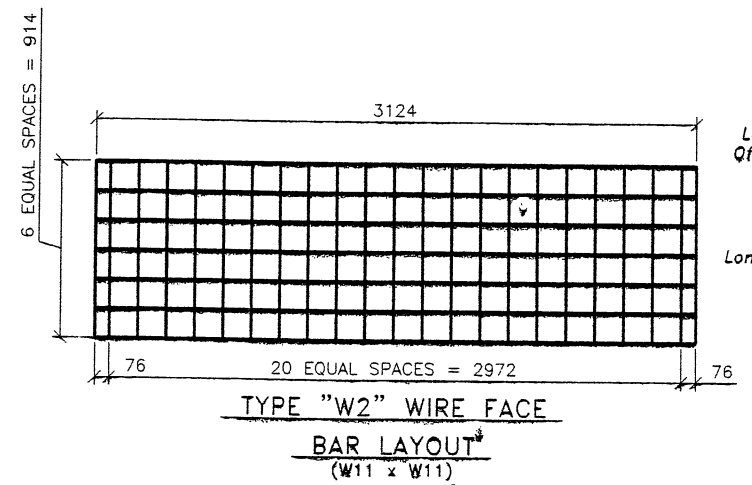


SECTION AT WIRE FACE PANEL TYPE "W"

SECTION AT WIRE FACE PANEL TYPE "W2"



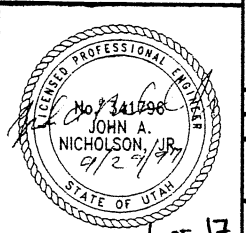
1 WIRE FACED WALL ELEVATION KEY (FRONT FACE SHOWN)



NOTE: W11 (71 sq mm) And W20 (129 sq mm) Steel Wire Material And Welding Of Cross Wires And Loops Shall Conform To ASTM A82 And ASTM 185, Fy = 448 MPa. Mesh Shall Be Galvanized To ASTM A-123 To A Minimum Effective Thickness Of 0.086 mm.

METRIC

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DES. 09-15-97 MM
 DRN. 09-15-97 DDO
 CHK. 09-15-97 MM

RETAINED EARTH™

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 Raleigh, NC 27612
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 Fax: (919) 761-4669

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WABATCH CONSTRUCTORS
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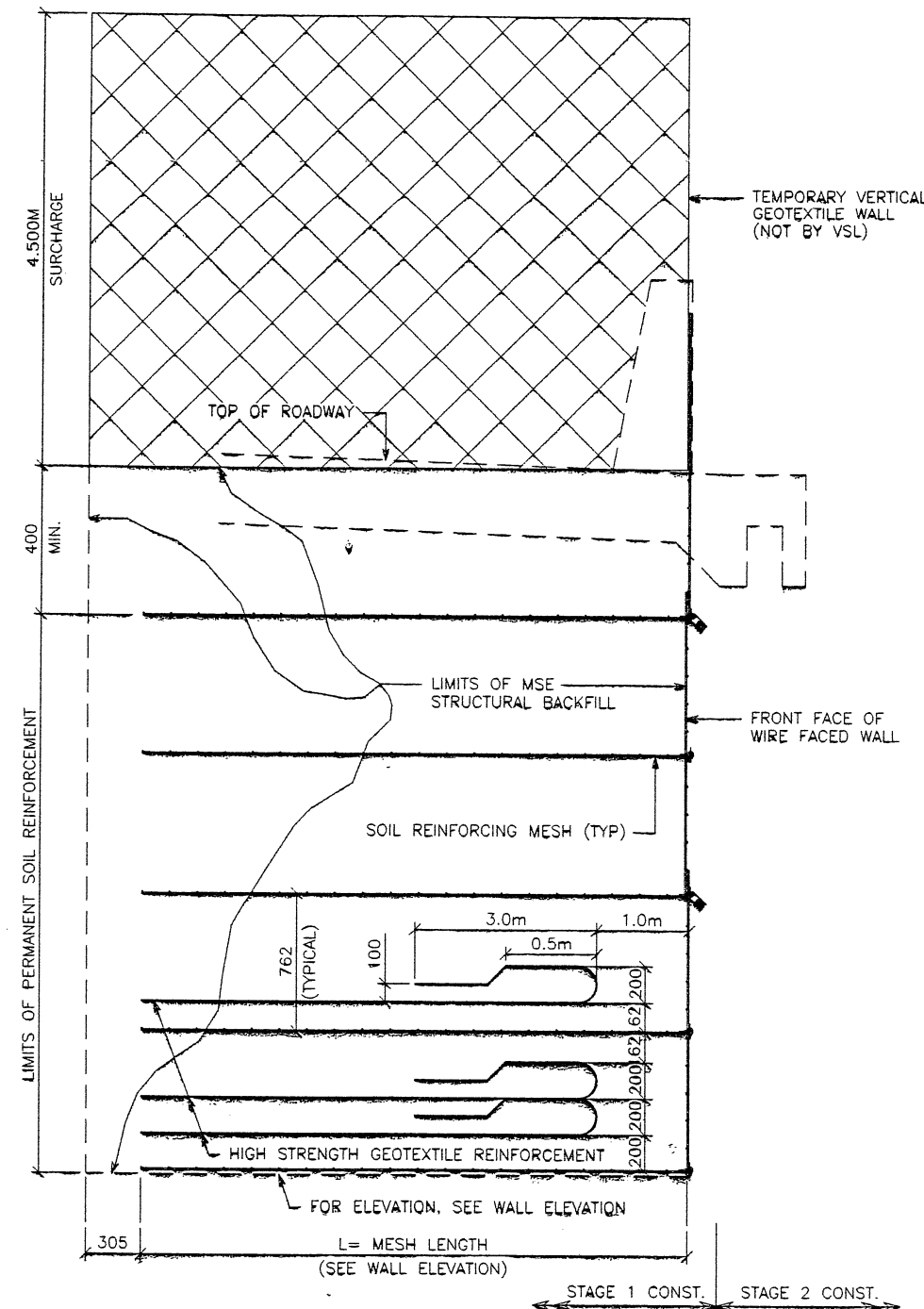
RETAINED EARTH™ WALLS
 WIRE FACED WALL "R-351-26"
 TYPICAL DETAILS

UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSPORTATION

DWG. NO. 3.2R-351-26.6
 JOB NO. 239-0007
 SHT. NO. RE-3

6 of 17

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY <i>SW</i>



**TYPICAL CROSS SECTION
AT FINAL PHASE OF WIRE FACE WALL**
SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)

WASATCH CONSTRUCTORS
OCT 08 1997
RELEASED FOR CONSTRUCTION

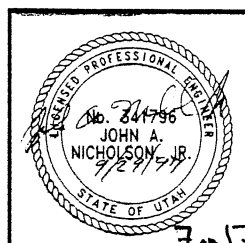


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RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-26"
TYPICAL SECTIONS @ WIRE FACED WALL
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSPORTATION

METRIC



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DWG. NO.	3.2R-351-26.7
JOB NO.	239-0007
SHT. NO.	RE-4

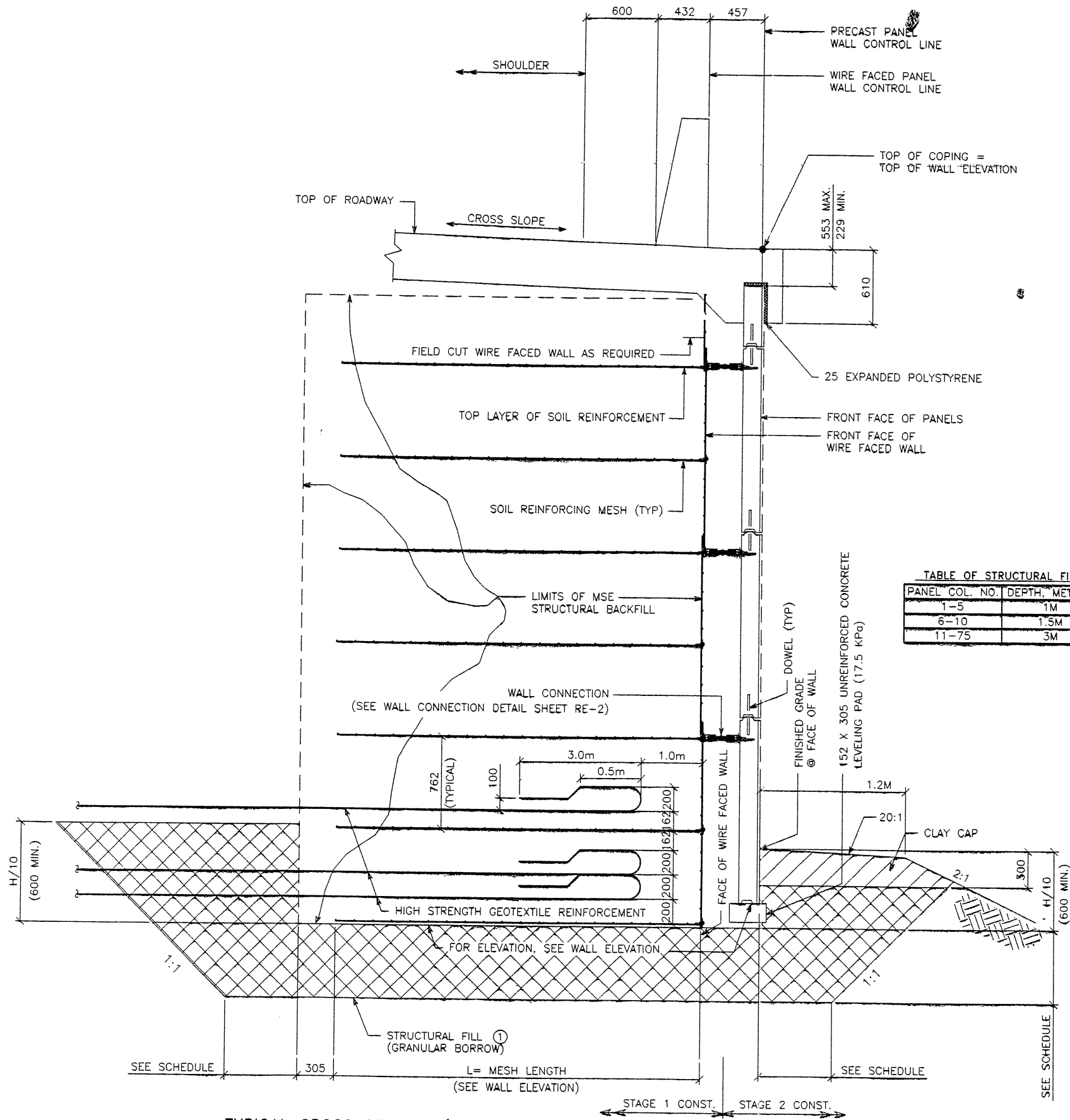


TABLE OF STRUCTURAL FILL

PANEL COL. NO.	DEPTH, METERS
1-5	1M
6-10	1.5M
11-75	3M

NOTE: FS BEARING ~ 1.0

TYPICAL CROSS SECTION (UNLESS NOTED)
 SCALE: 1:20 (FULL SIZE)
 SCALE: 1:40 (HALF SIZE)

APPROVED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY

WARATCH CONSTRUCTORS
 OCT 08 1997
 RELEASED FOR CONSTRUCTION

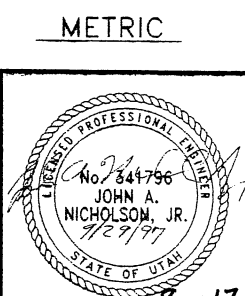
NO.	DATE	DESCRIPTION
DES.	09-15-97	MM
DRN.	09-15-97	DDO
CHK.	09-15-97	MM

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RETAINED EARTH™ WALLS
 WIRE FACED WALL™ R-351-26™
 TYPICAL CROSS SECTION
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

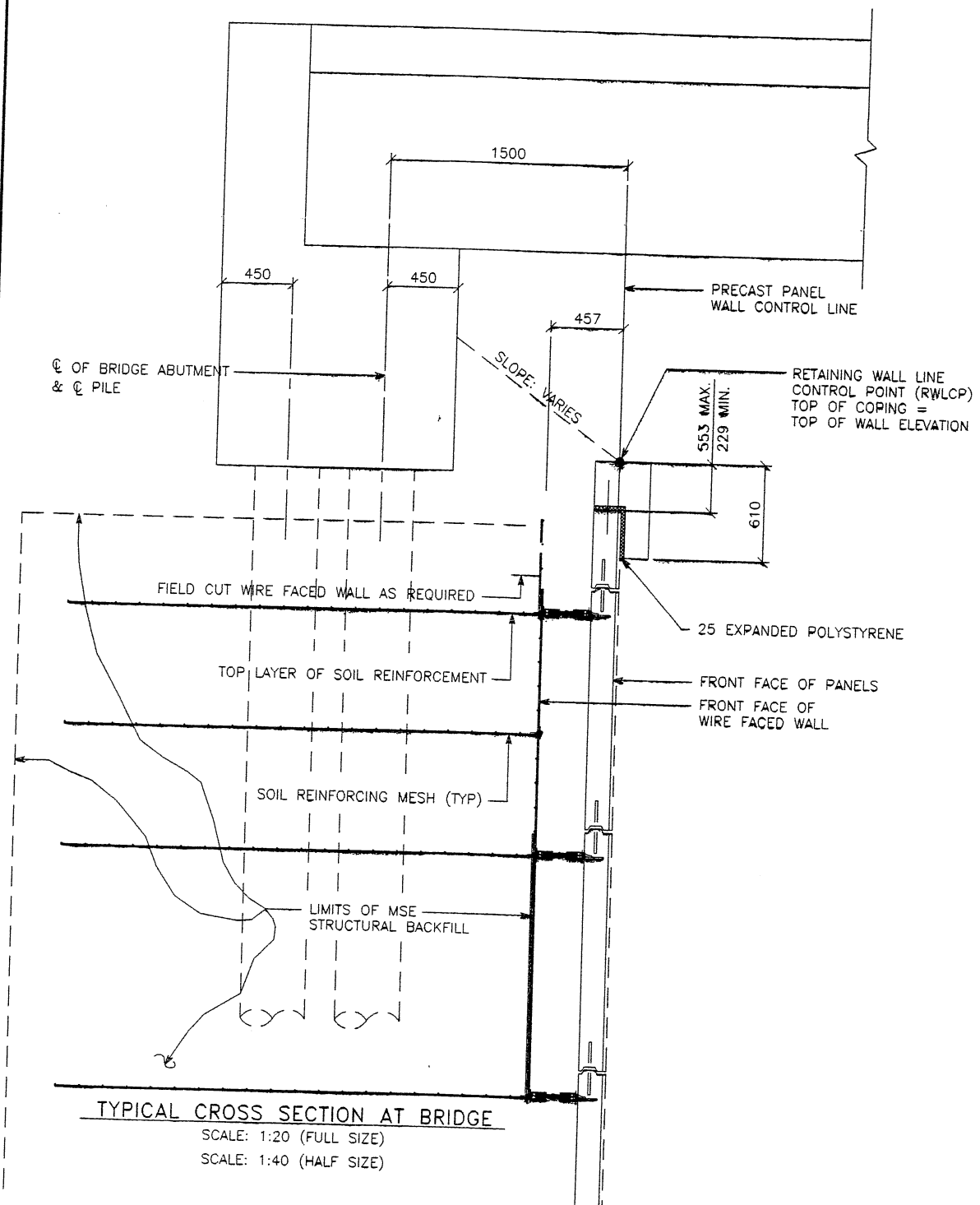


DWG. NO.	3.2R-351-26.8
JOB NO.	239-0007
SHT. NO.	RE-5

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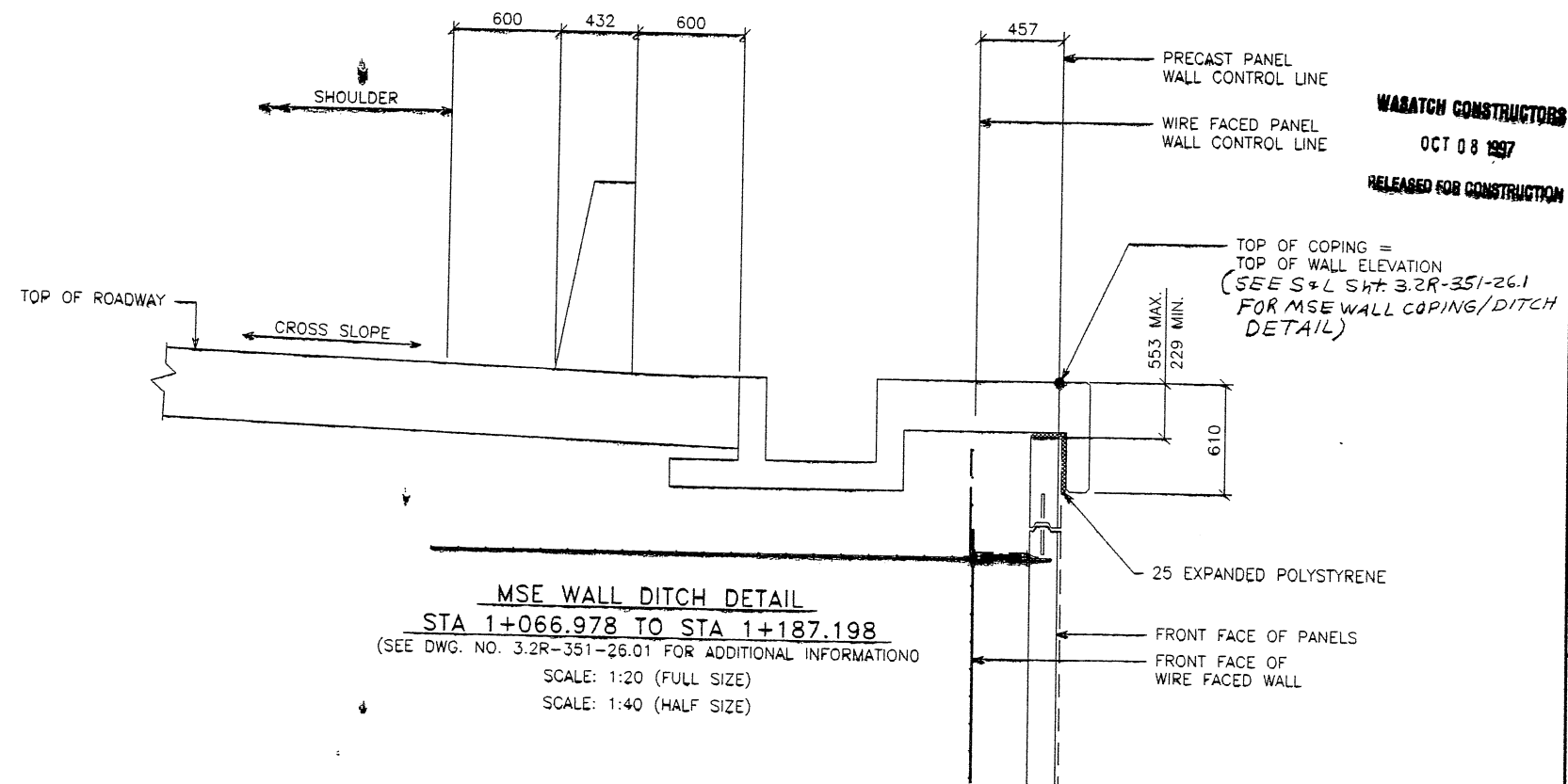
FINAL PL 9-15-97

E:\PROJECT\239-0007\6S-WALLS\6S-26\RL



TYPICAL CROSS SECTION AT BRIDGE

SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)



MSE WALL DITCH DETAIL

STA 1+066.978 TO STA 1+187.198
(SEE DWG. NO. 3.2R-351-26.01 FOR ADDITIONAL INFORMATION)
SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY <i>AW</i>

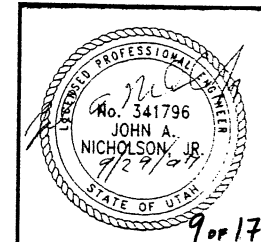
WABATCH CONSTRUCTORS
OCT 08 1997
RELEASED FOR CONSTRUCTION

VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-6372
Fax: (919) 781-4919



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METRIC



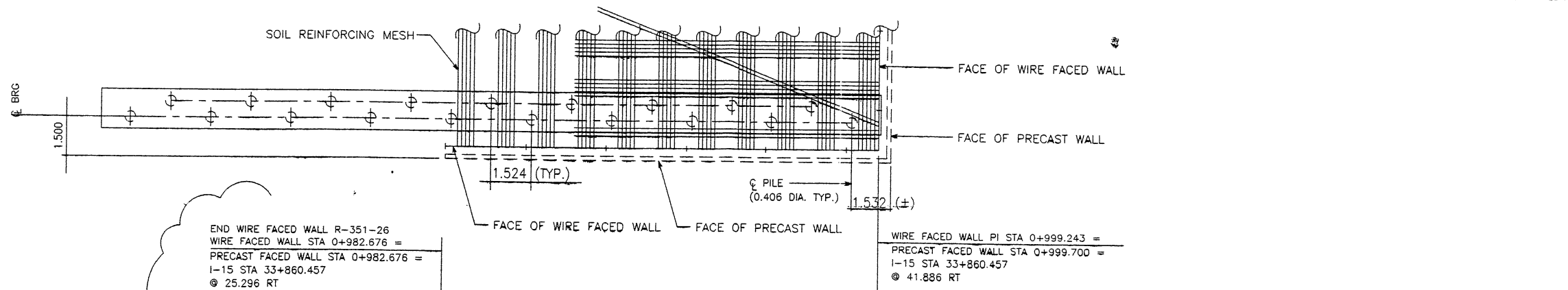
CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-26"
TYPICAL CROSS SECTIONS
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP

DWG. NO.	3.2R-351-26.9
JOB NO.	239-0007
SHT NO.	RE-6

9 of 17

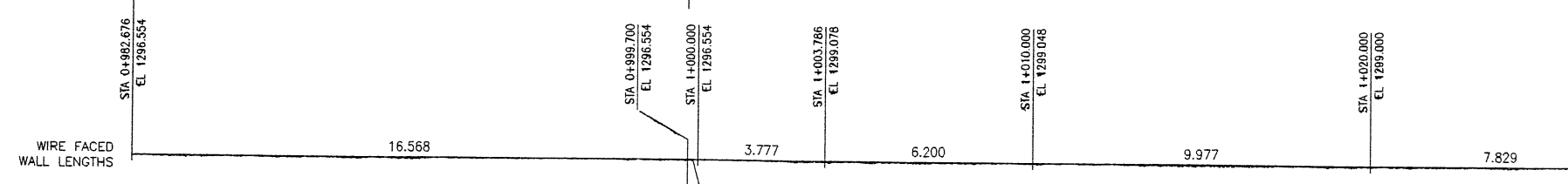
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 FINAL PLOT 10-17-97



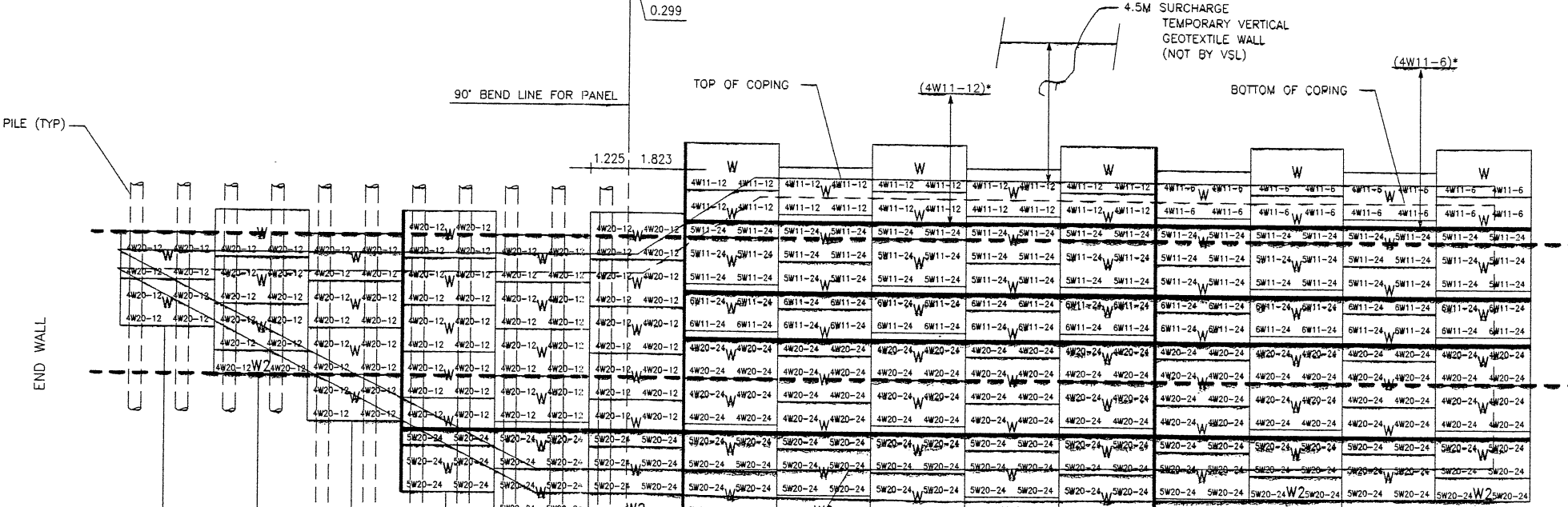
APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	10-06-97	RELEASE FOR 1ST STAGE CONST. ONLY
2	11-11-97	REVISED WALL ELEVATION VIEW

END WIRE FACED WALL R-351-26
 WIRE FACED WALL STA 0+982.676 =
 PRECAST FACED WALL STA 0+982.676 =
 1-15 STA 33+860.457
 @ 25.296 RT

WIRE FACED WALL PI STA 0+999.243 =
 PRECAST FACED WALL STA 0+999.700 =
 1-15 STA 33+860.457
 @ 41.886 RT



WARATCH CONSTRUCTORS
 NOV 13 1997
 RELEASED FOR CONSTRUCTION



BUILD WALL UP TO THIS LINE;
 ALLOW TO SETTLE;
 RESUME CONSTRUCTION

BUILD WALL UP TO THIS LINE;
 ALLOW TO SETTLE;
 RESUME CONSTRUCTION

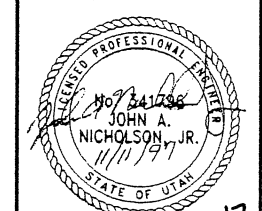
RETAINING WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 2,073.74 SM)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES ARE INDICATED BELOW "MESH DEPTH LINE" REVIEWER TO VERIFY MAXIMUM BEARING CAPACITY OF FOUNDATION.

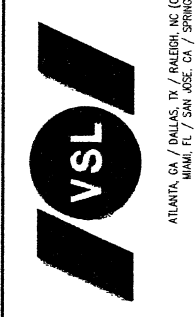
* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.



RETAINED EARTH™ WALLS
 WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2R-351-26.10
JOB NO.	239-0007
SHT. NO.	RE-7



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NO.	DATE	REVISION
1	10-17-97	REVISED WALL ELEV DUE TO NEW S & L DWG

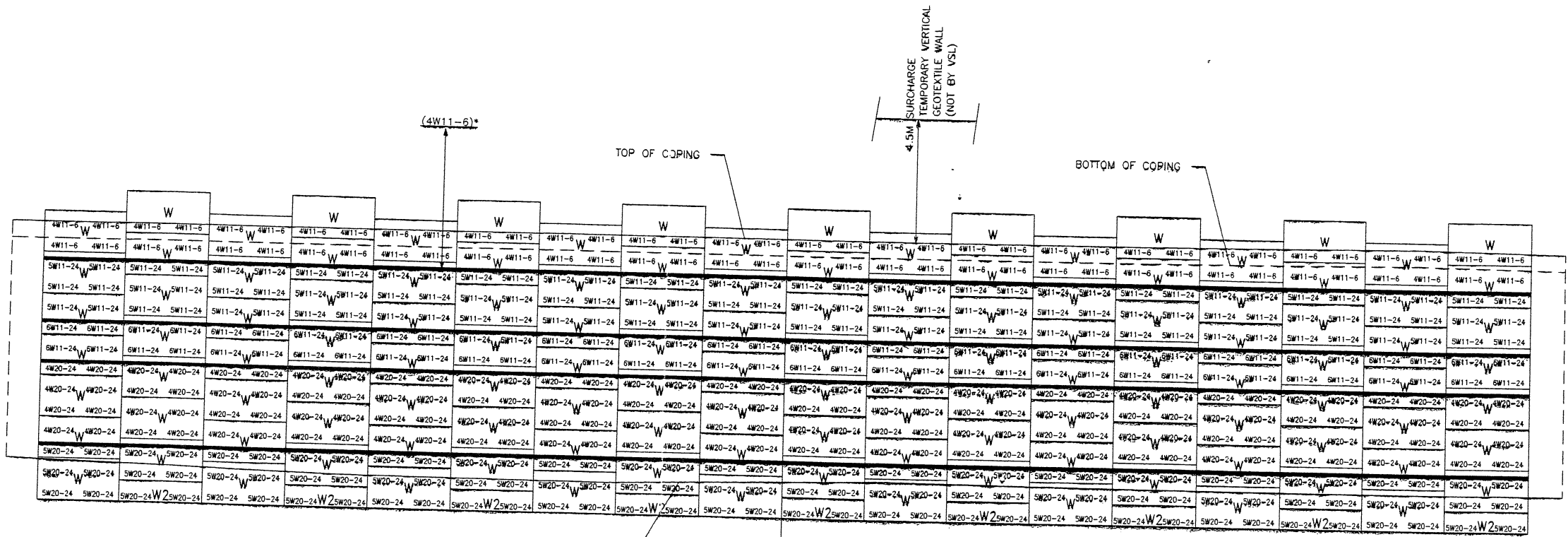
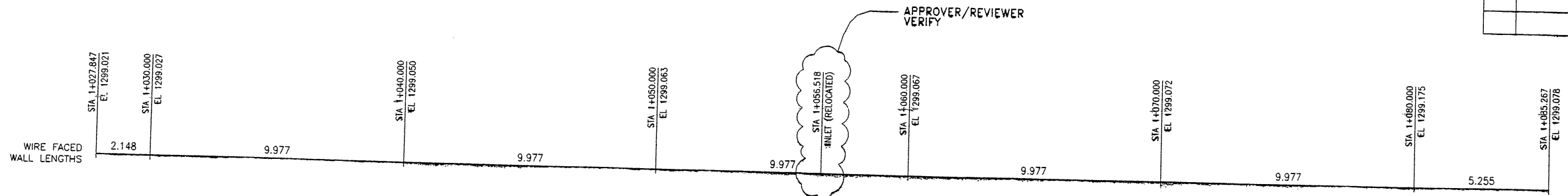
NO.	DATE	DESCRIPTION	BY	CHK
1	10-06-97	RELEASE FOR 1ST STAGE CONST. ONLY	DDO	JN
2	11-11-97	REVISED WALL ELEVATION VIEW	DDO	JN

RETAINED EARTH™
 VSL CORPORATION
 DCS: 09-15-97
 DRN: 09-15-97
 CHK: 09-15-97

FINAL PLG, 09-15-97

E:\PROJECT\239-0007\6S-WALLS\6S-26\W6S-26

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY



MESH DEPTH	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
MAXIMUM BEARING PRESSURE (SEE NOTE BELOW)										10.363M								
PIN SPACING										305 KPa								
										54.864								

RETAINING WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 2,073.74 SM)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES ARE INDICATED BELOW "MESH DEPTH LINE" REVIEWER TO VERIFY MAXIMUM BEARING CAPACITY OF FOUNDATION.

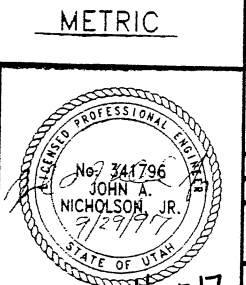
* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

WASATCH CONSTRUCTORS
 OCT 08 1997
 RELEASED FOR CONSTRUCTION

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-6272
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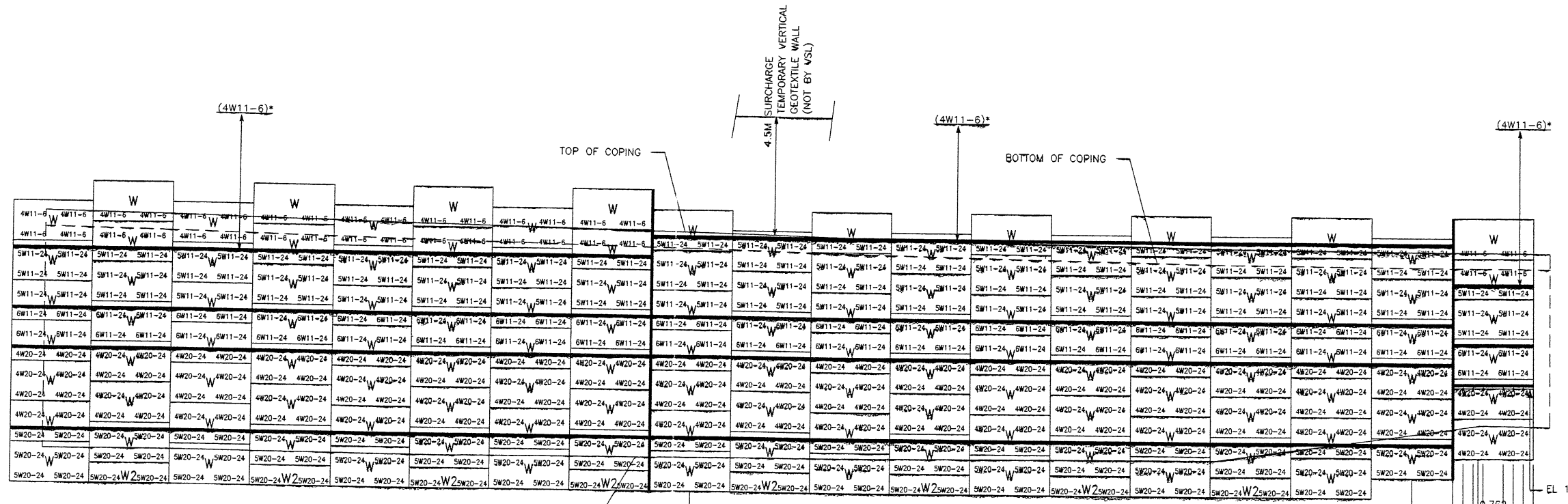
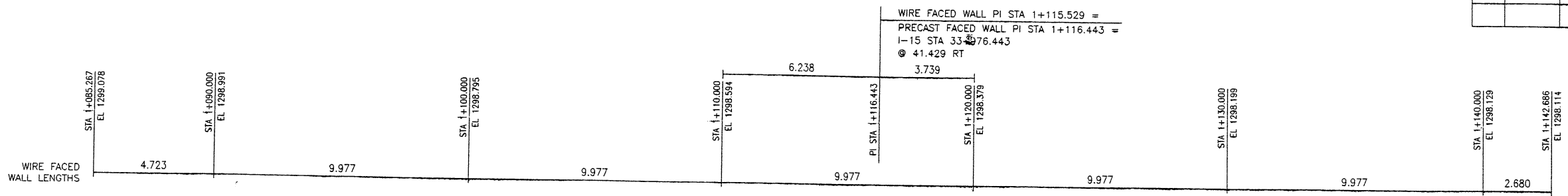


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RETAINED EARTH™ WALLS
 WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH

DWG. NO. 3.2R-351-26.11
 JOB NO. 239-0007
 SHEET NO. RE-8

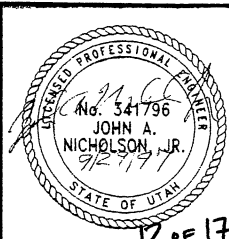
APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-19-97	RELEASE FOR 1ST STAGE CONST. ONLY



MESH DEPTH	MAXIMUM BEARING PRESSURE (SEE NOTE BELOW)	PIN SPACING
38	10.363M	305 KPa
39	10.363M	305 KPa
40	10.363M	305 KPa
41	10.363M	305 KPa
42	10.363M	305 KPa
43	10.363M	305 KPa
44	10.363M	305 KPa
45	10.363M	305 KPa
46	10.363M	305 KPa
47	10.363M	305 KPa
48	10.363M	305 KPa
49	10.363M	305 KPa
50	10.363M	305 KPa
51	10.363M	305 KPa
52	10.363M	305 KPa
53	10.363M	305 KPa
54	10.363M	305 KPa
55	10.363M	305 KPa
56	8.534M	243 KPa

RETAINING WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 2,073.74 SM) SCALE 1:200 (HALF SIZE)

METRIC



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DWG. NO.	3.2R-351-26.12
JOB NO.	239-0007
SHT. NO.	RE-9

WASATCH CONSTRUCTORS
OCT 08 1997
RELEASED FOR CONSTRUCTION



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Raleigh, NC 27612
Telephone: (919) 781-8272
Fax: (919) 781-4869

RETAINED EARTH™ WALLS
WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSPORTATION

DES.	09-15-97	MM
DRN.	09-15-97	DDO
CHK.	09-15-97	MM

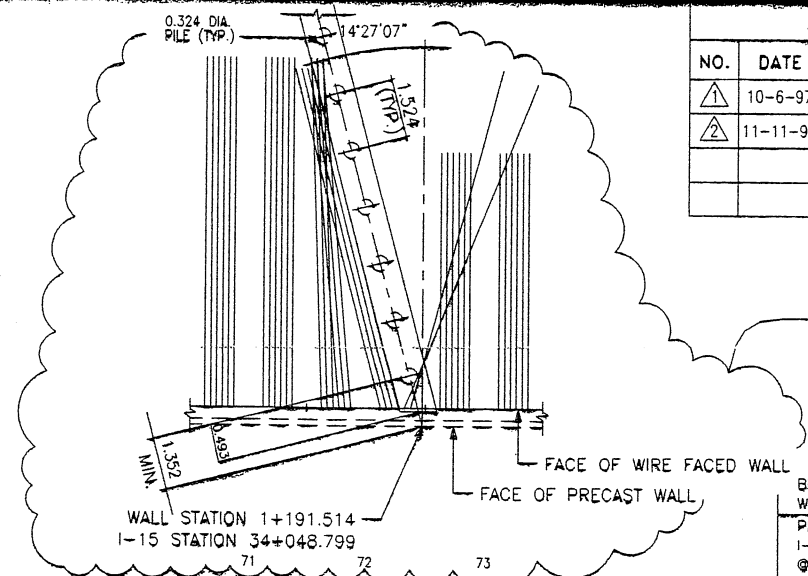
RETAINED EARTH™

FINAL PL. 09-15-97 E:\PROJECT\239-0007\6S-WALLS\6S-26\W6S-26

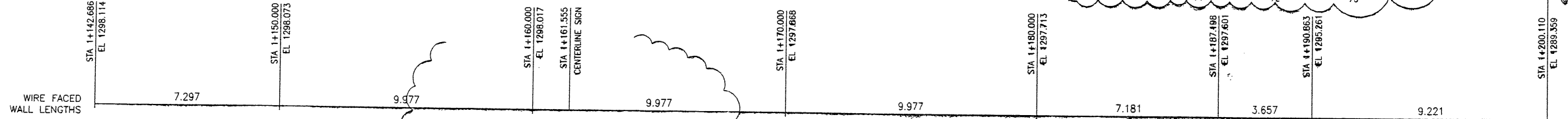
FINAL PLG - 15-97 E:\PROJECT\239-0007\6S-WALLS\6S-26\SUBMITL-3.V

APPROVED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	10-6-97	RELEASE FOR 1ST STAGE CONST. ONLY
2	11-11-97	ADDED DETAIL FOR SKEWING MESH @ ABUT. PILE AND REVISED WALL ELEV. @ SIGN LOCATION

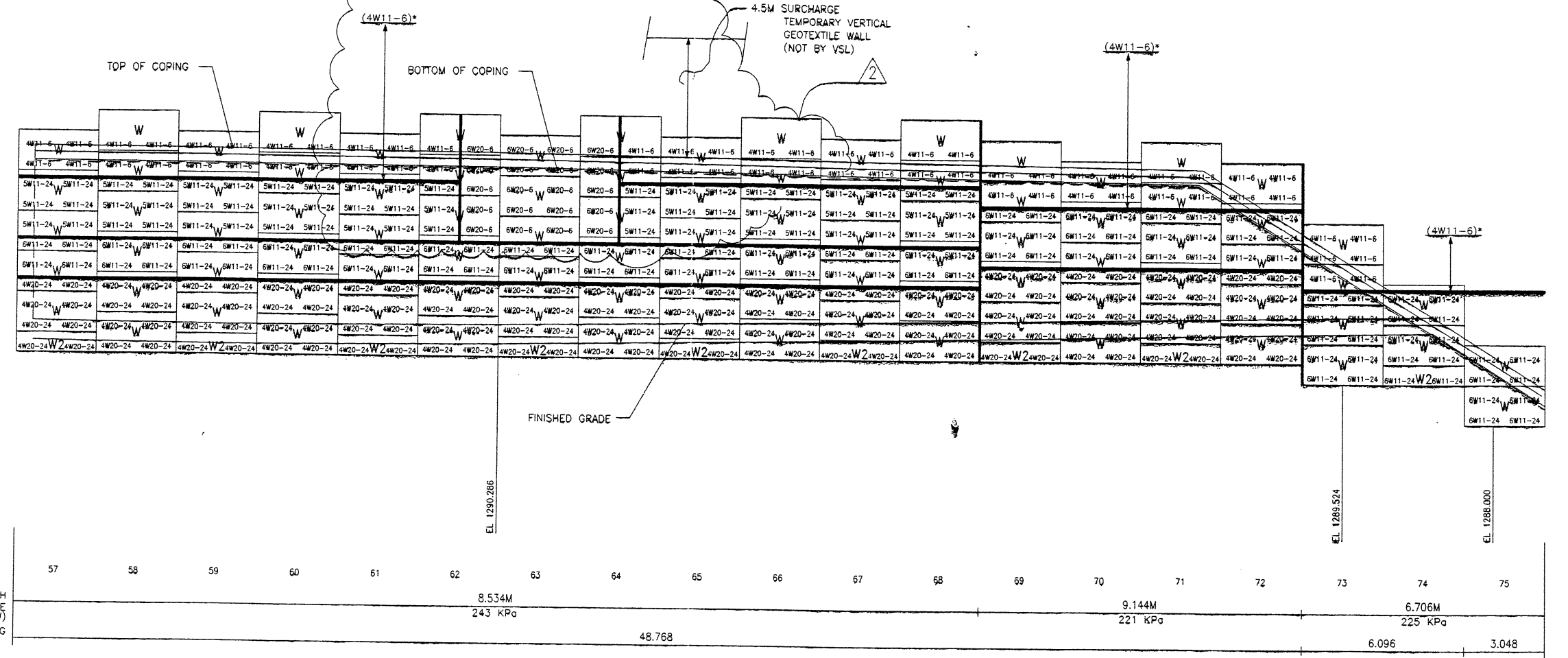


BEGIN WIRE FACED WALL R-351-26
 WIRE FACED WALL STA 1+199.191 =
 PRECAST FACED WALL STA 1+200.105 =
 I-15 STA 3+056.742
 @ 41.429 RT



MEET BRIDGE

WAGATCH CONSTRUCTORS
 NOV 13 1997
 RELEASED FOR CONSTRUCTION

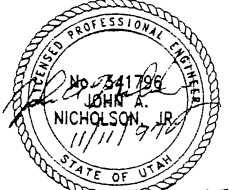


RETAINING WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 2,073.74 SM)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES ARE INDICATED BELOW "MESH DEPTH LINE". REVIEWER TO VERIFY MAXIMUM BEARING CAPACITY OF FOUNDATION.

* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

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RETAINED EARTH™ WALLS
 WALL "R-351-26" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSPORTATION

DWG. NO. 3.2R-351-26.13
 JOB NO. 239-0007
 SHEET NO. RE-10



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 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-6272
 Fax: (919) 781-4869

DES. 09-15-97 MM
 DRN. 09-15-97 DDO
 CHK. 09-15-97 MM

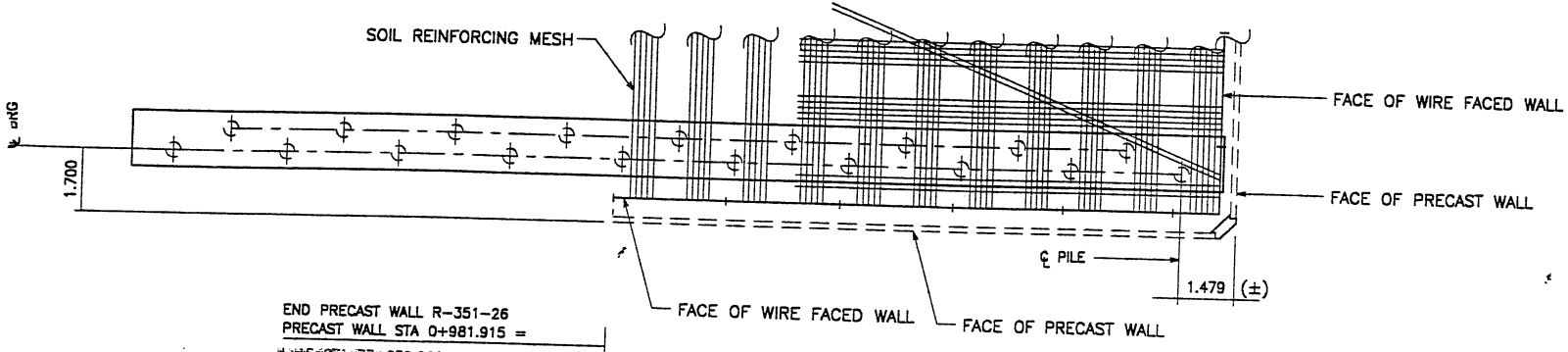
RETAINED EARTH™

FINAL PLOT 12-14-98

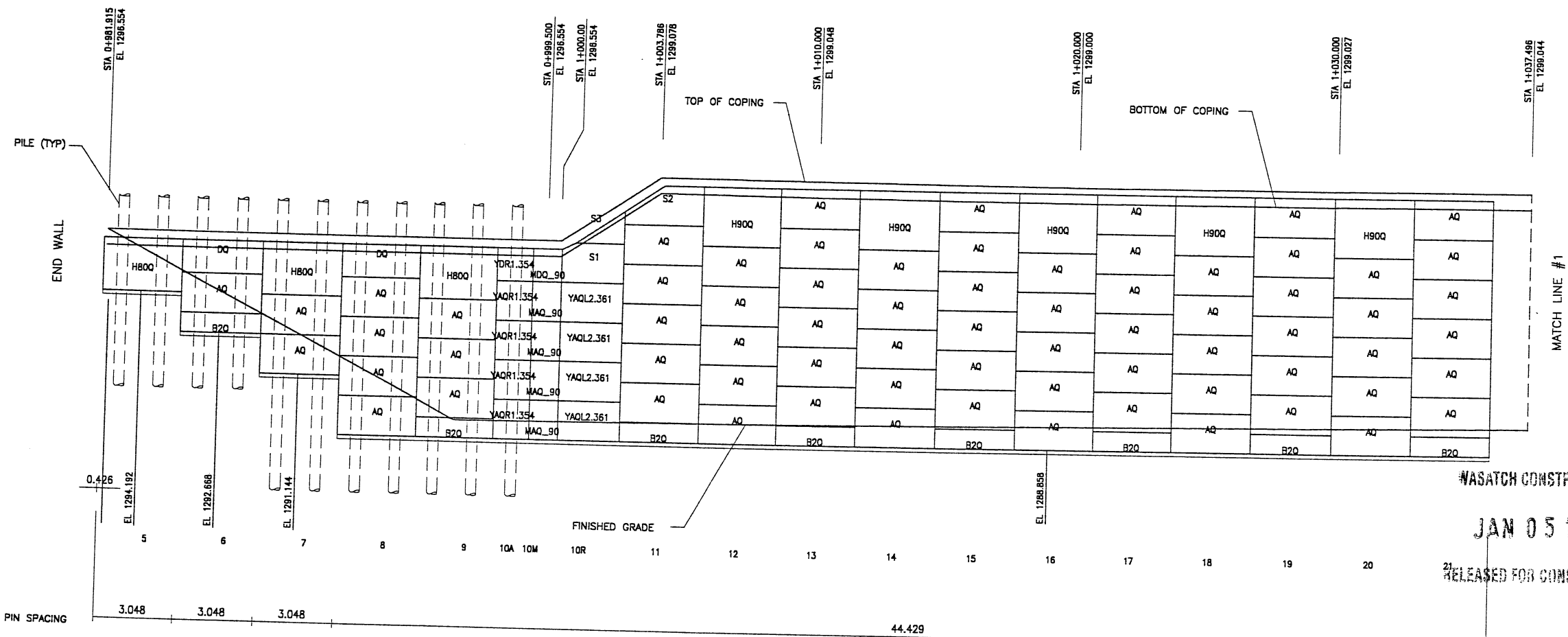
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WFS-26

REFERENCE (X-UTAH.DWG)



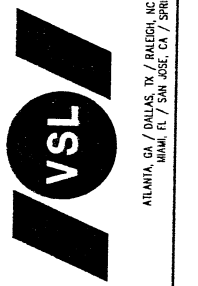
END PRECAST WALL R-351-26
 PRECAST WALL STA 0+981.915 =
 1-15 STA 33+859.800
 ● 25.296 RT



APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	12-14-97	RELEASE FOR 2ND STAGE CONSTRUCTION

NO.	DATE	REVISION

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27617
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 Fax: (919) 781-6869



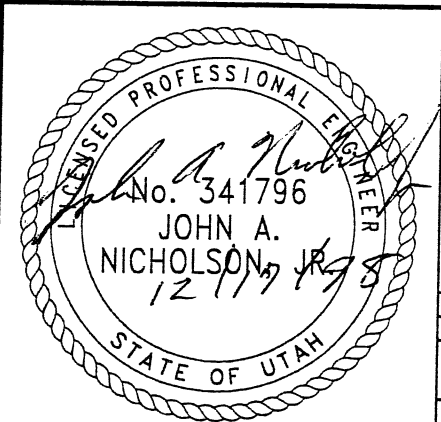
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WASATCH CONSTRUCTORS
 JAN 05 1999
 RELEASED FOR CONSTRUCTION

RETAINING WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 1,886.07 SM)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.




RETAINED EARTH™ WALLS	DWG. NO.	3.2R-351-26.14
WALL "R-351-26" - 2ND STAGE: PRECAST WALL	JOB NO.	239-0007
UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.	SHT. NO.	RE-11

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	12-14-97	RELEASE FOR 2ND STAGE CONSTRUCTION

DES.	MM	RSW	MM	REVISION	DATE	CHK
DRN	10-08-98	10-08-98	10-08-98	RETAINED EARTH™		
CHK	10-08-98	10-08-98	10-08-98			

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27617
 Telephone: (919) 881-8272
 Fax: (919) 881-4889

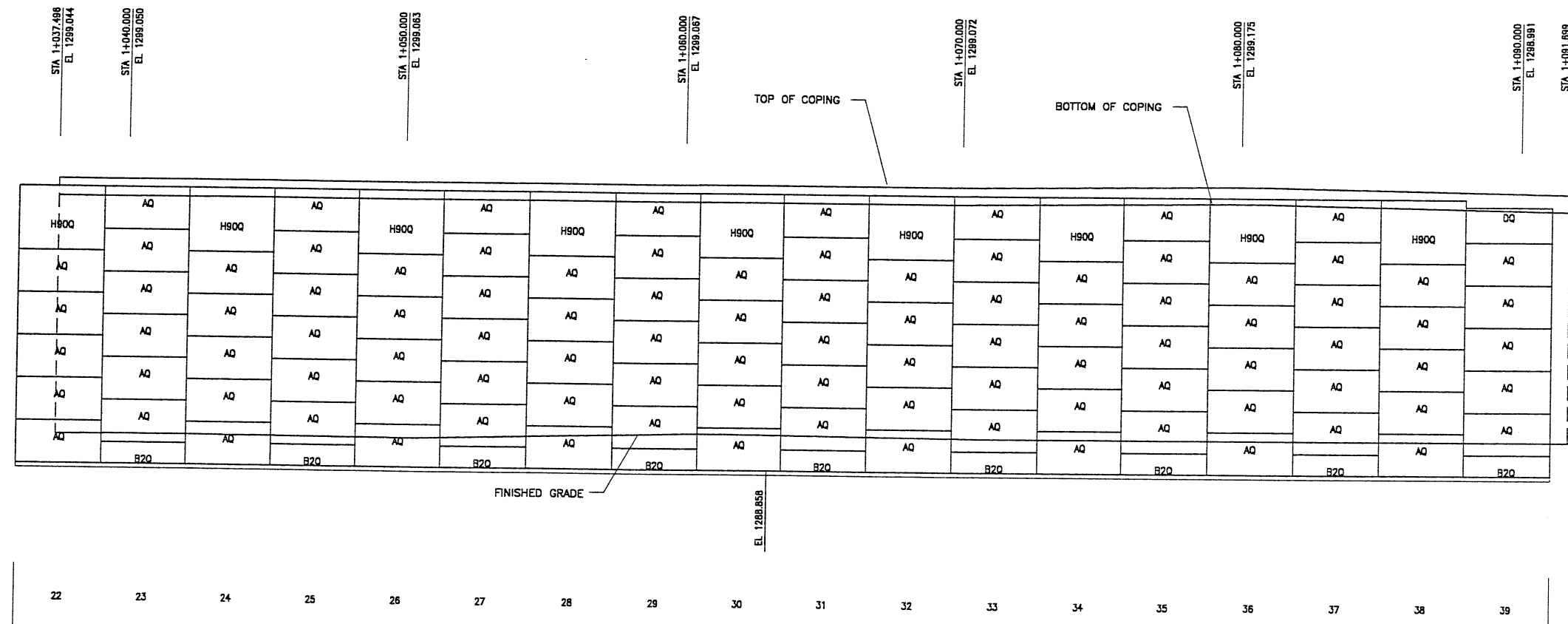


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 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

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RETAINED EARTH™ WALLS
 WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3,2R-351-26.15
JOB NO.	239-0007
SHT. NO.	RE-12



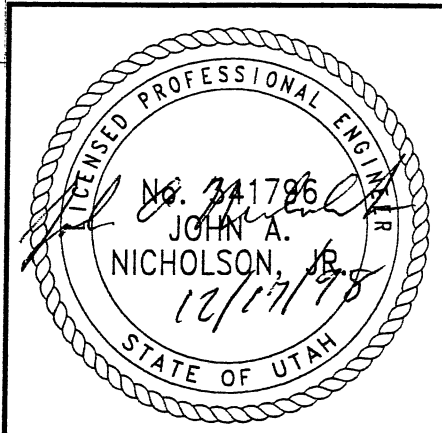
RETAINING WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)

(TOTAL SURFACE AREA OF FACING = 1,886.07 SM)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

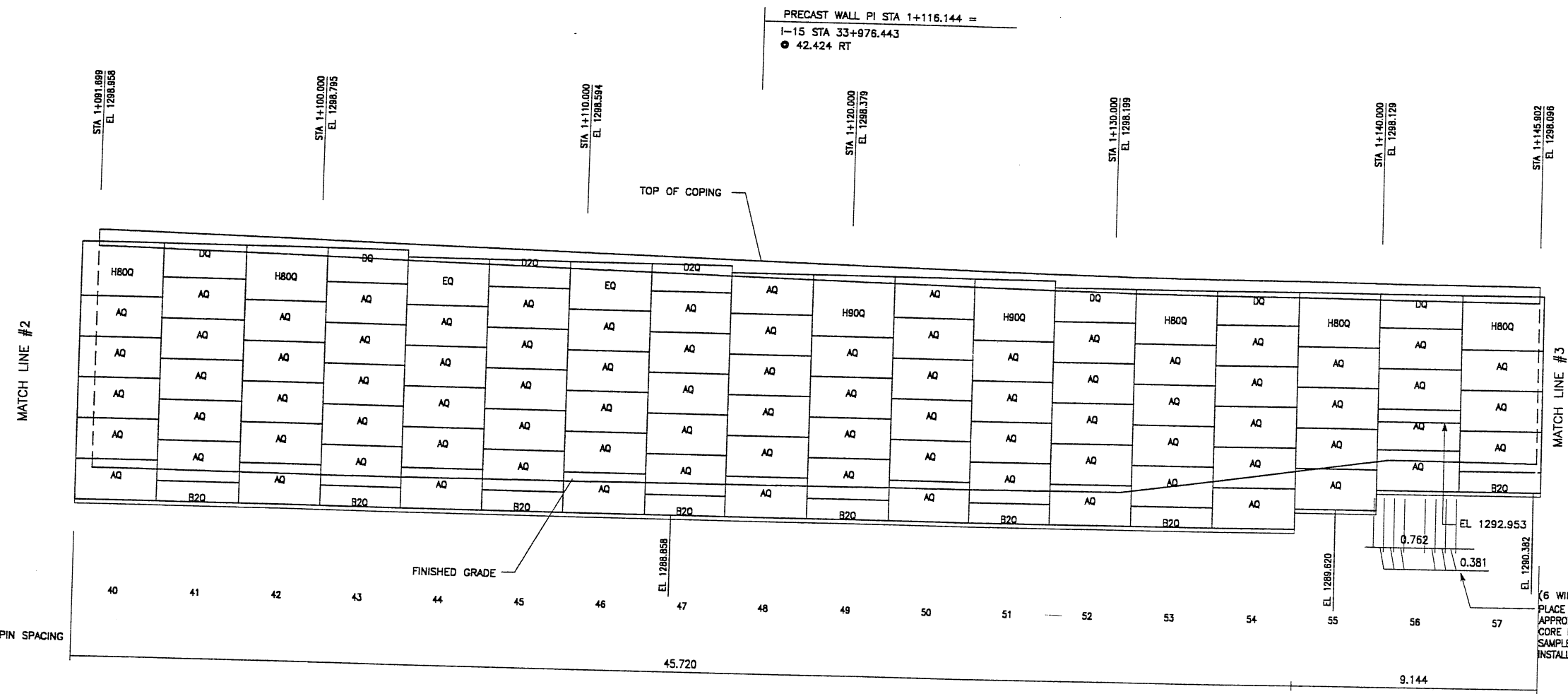
METRIC

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WASATCH CONSTRUCTORS
 JAN 05 1999
 RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	12-14-97	RELEASE FOR 2ND STAGE CONSTRUCTION



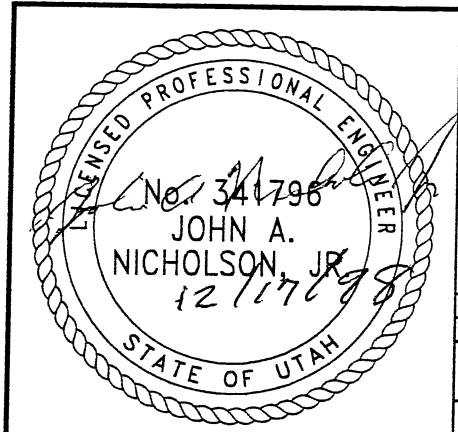
RETAINING WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)

(TOTAL SURFACE AREA OF FACING = 1,886.07 SM)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

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WASATCH CONSTRUCTORS
 JAN 05 1999
 RELEASED FOR CONSTRUCTION

NO.		DATE		DESCRIPTION	
10-08-98		MM		REVISION	
10-08-98		RSW		NO.	
10-08-98		MM		DATE	
10-08-98		MM		BY	
10-08-98		MM		CHK	

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-6772
 Fax: (919) 781-4859

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 IRVING, TX / SAN JOSE, CA / SPRINGFIELD, VA

RETAINED EARTH™ WALLS
 WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

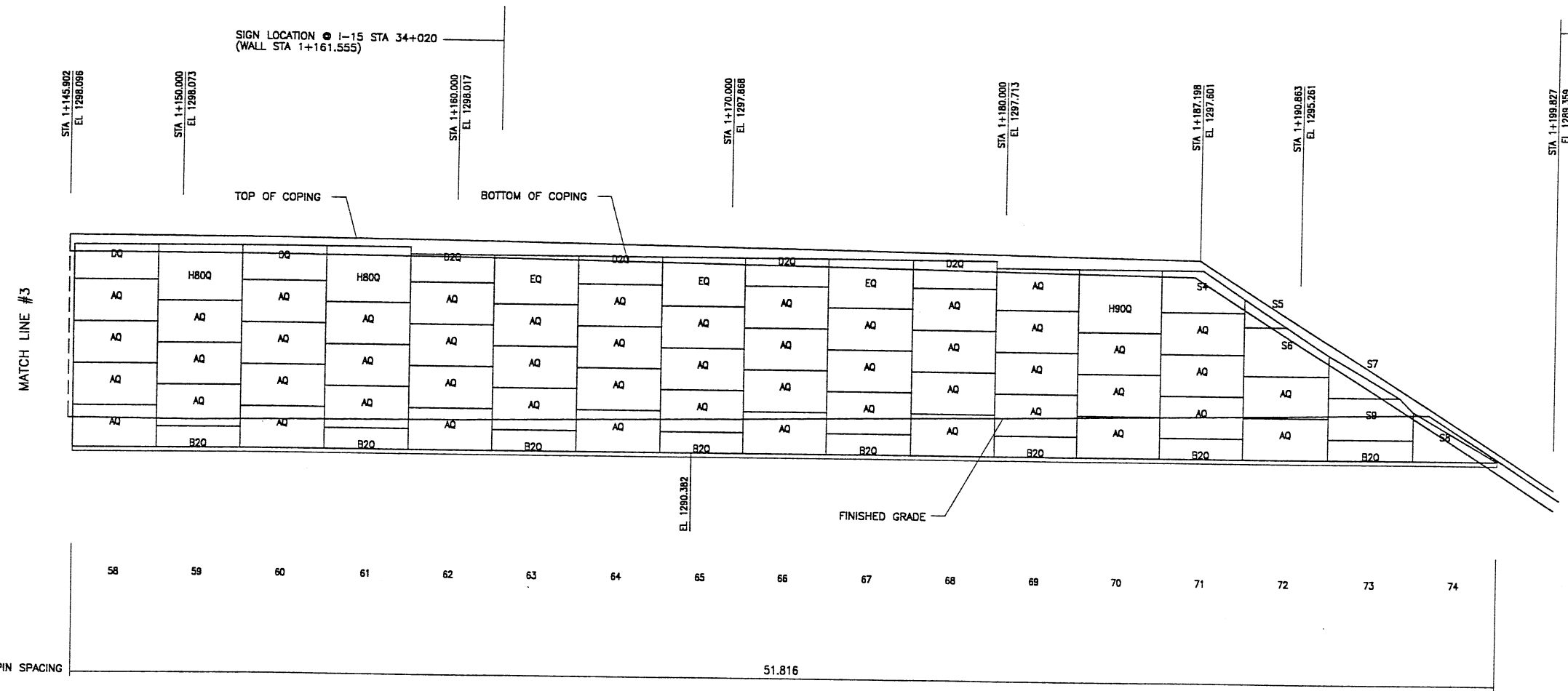
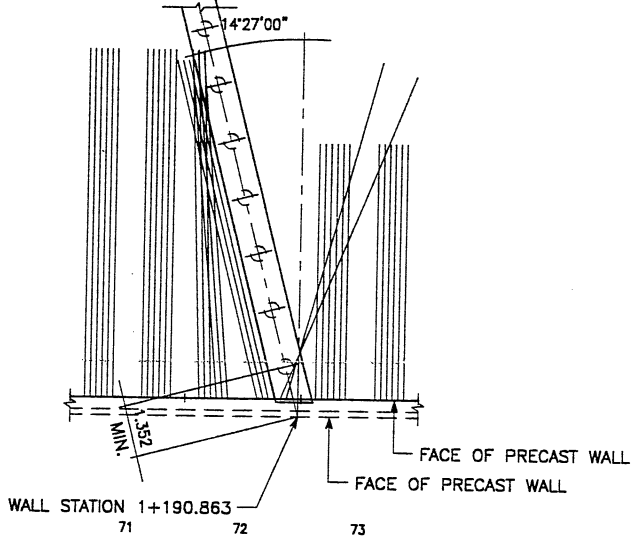
DWG. NO.
 3.2R-351-26.16

JOB NO.
 239-0007

SHI. NO.
 RE-13

H:\PROJECT\239-0007\2-STAGE\65-WALLS\65 W65-26
 FINA OT 12-14-98 REFERENCE (X-UTAH.DWG)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	12-14-97	RELEASE FOR 2ND STAGE CONSTRUCTION



BEGIN PRECAST WALL R-351-26
 PRECAST WALL STA 1+199.827 =
 I-15 STA 34+056.742
 @ 42.424 RT

MEET BRIDGE

BEGIN WALL

WASATCH CONSTRUCTORS

JAN 05 1999

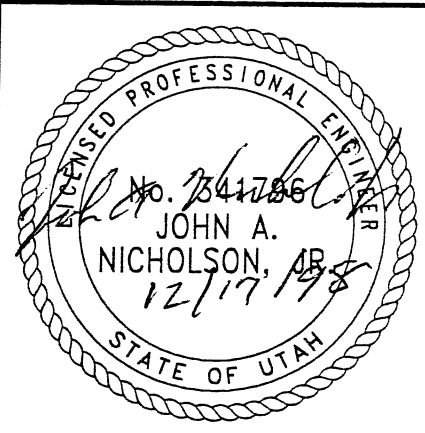
RELEASED FOR CONSTRUCTION

RETAINING WALL "R-351-26" - 2ND STAGE: PRECAST WALL

(FRONT FACE SHOWN)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)
 (TOTAL SURFACE AREA OF FACING = 1,886.07 SM)

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.



NO.		DATE		DESCRIPTION		BY	CHK
10-08-98		MM		RETAINED EARTH™			
10-08-98		RSW					
10-08-98		MM					
DVS.		DRN.		CHK.		NO.	
DATE		NO.		REVISION		BY	
DATE		NO.		REVISION		BY	

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone (919) 781-6272
 Fax (919) 781-4889

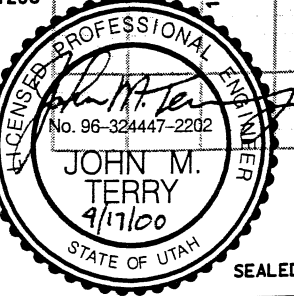
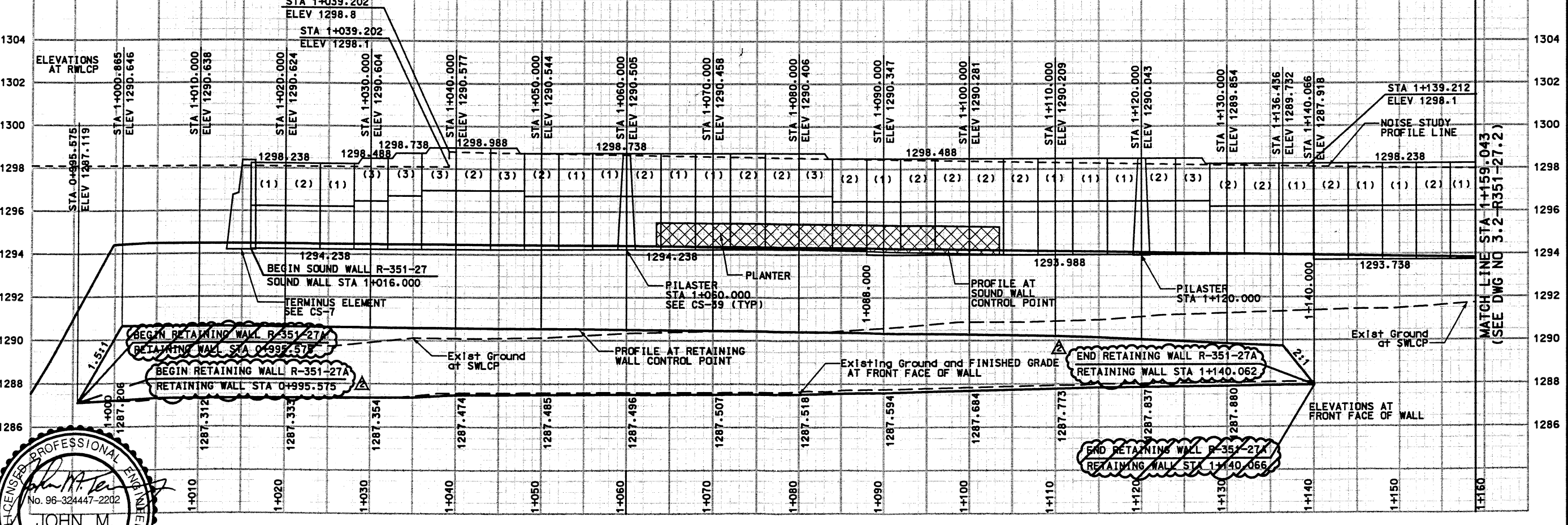
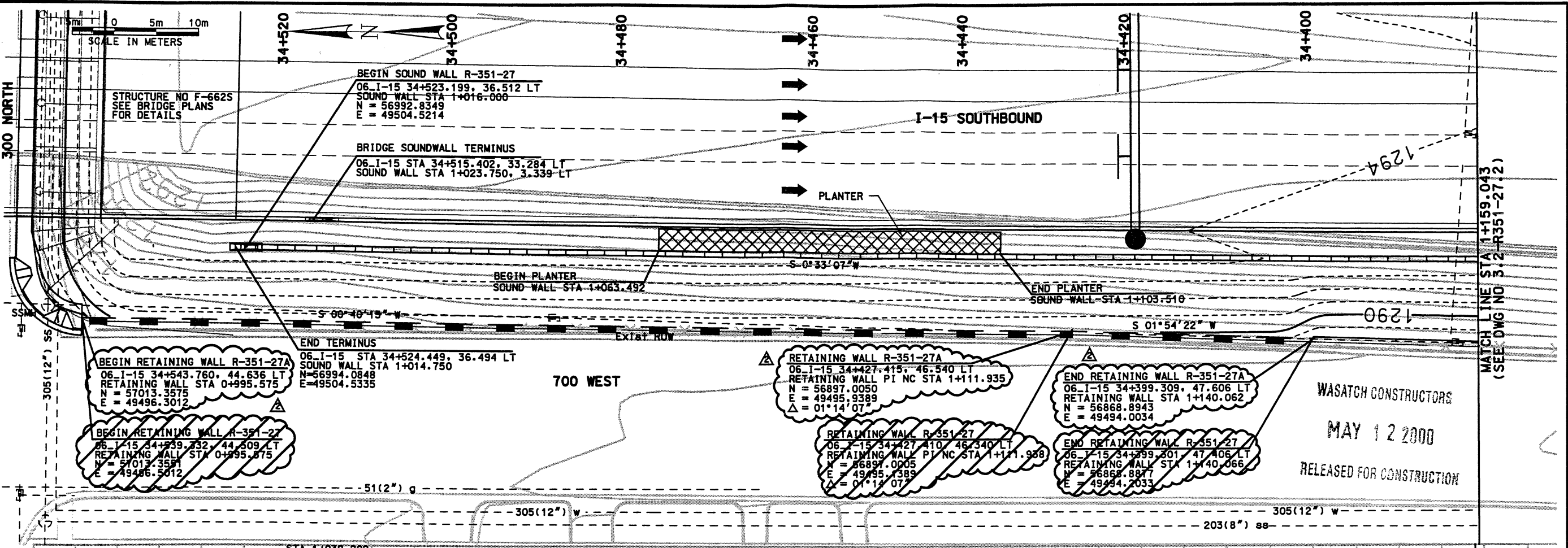
ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE)
 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

RETAINED EARTH™ WALLS
 WALL "R-351-26" - 2ND STAGE: PRECAST WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO. 3.2R-351-26.17
 JOB NO. 239-0007
 SH. NO. RE-14

Date: 11-APR-2000 Time: 15:16 User: name.dodson

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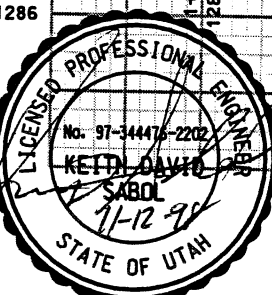
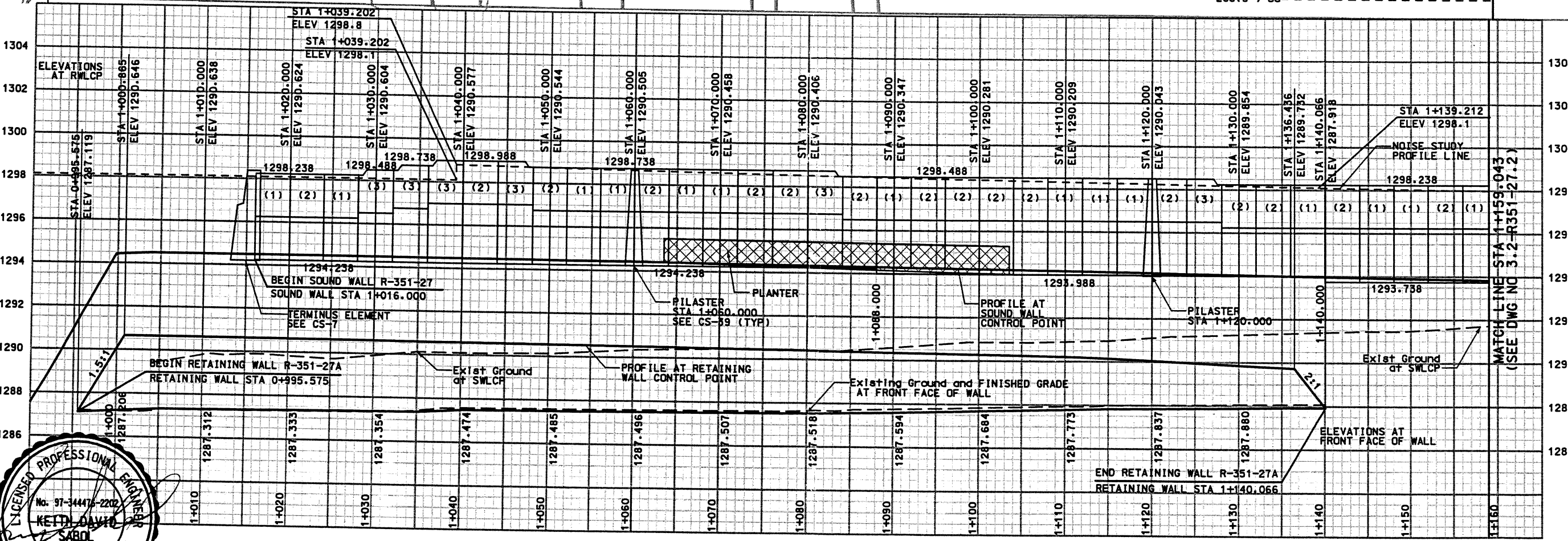
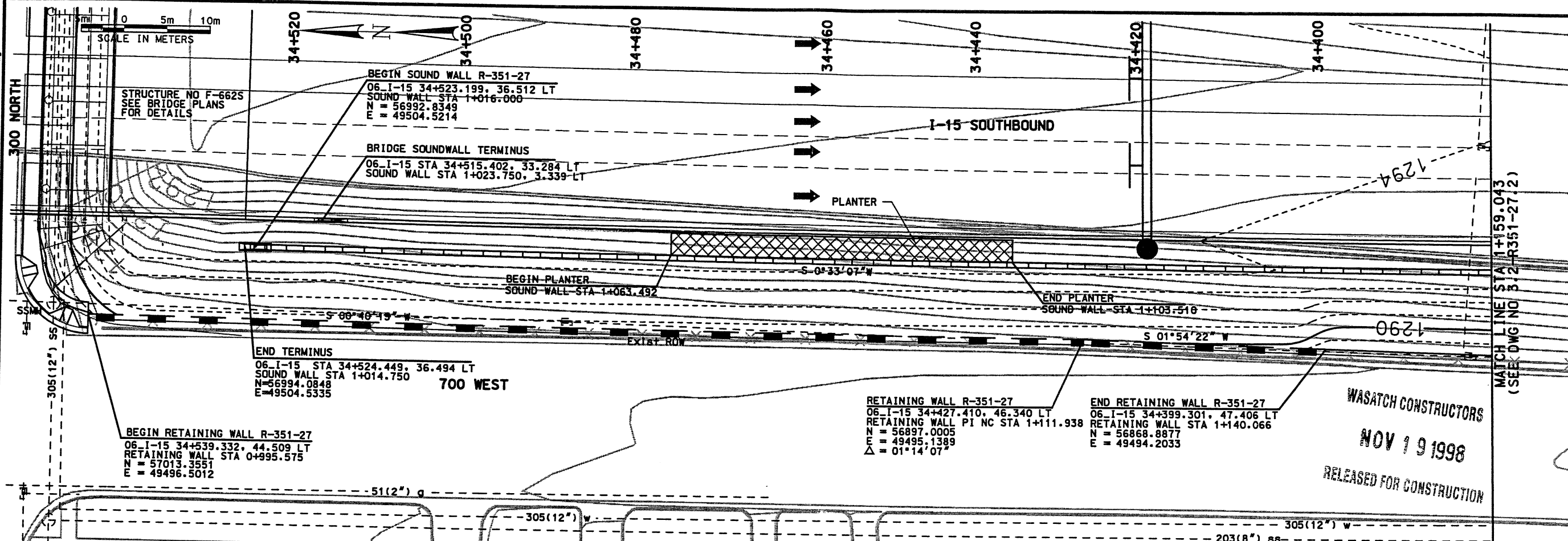
WALL R-351-27
VIEW IS FRONT FACE OF WALL

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	4/11/00	2	4/11/00
RELEASE FOR CONSTRUCTION		RELEASE PER FDC 7-0142	
3213419		3213419	
UTAH DEPARTMENT OF TRANSPORTATION			
I-15 CORRIDOR RECONSTRUCTION		SVERDRUP/DE LEUW	
SITUATION & LAYOUT		SECTION 3.2	
PROJECT NUMBER #SP-15-7(135)296		SECTION MANAGER	
APPROVAL RECORD:		DESIGN MC 11/13/98	
DATE 11/13/98	PROJECT DESIGN ENGINEER MARVIN COOK	CHECK RT	CHECK MC 11/13/98
DATE 11/13/98	SECTION MANAGER KEITH SABOI	CHECK SVD	CHECK MC 11/13/98
SALT LAKE COUNTY		DWG. NO. 3.2-R351-27.1	
SHT. 1 OF 11			

RFC After Final Approval

Date: 11-NOV-98 Time: 09:23 User: cookmg

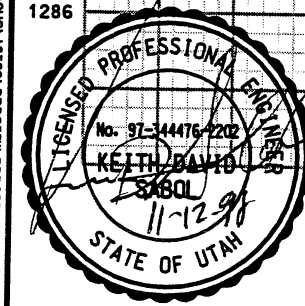
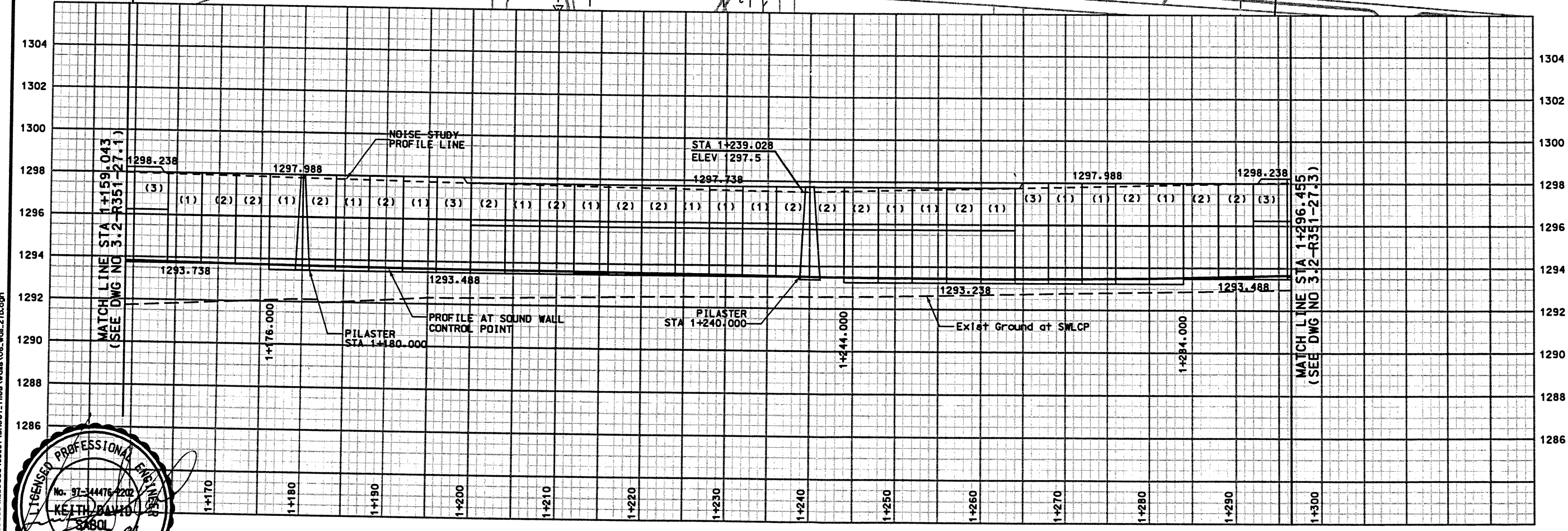
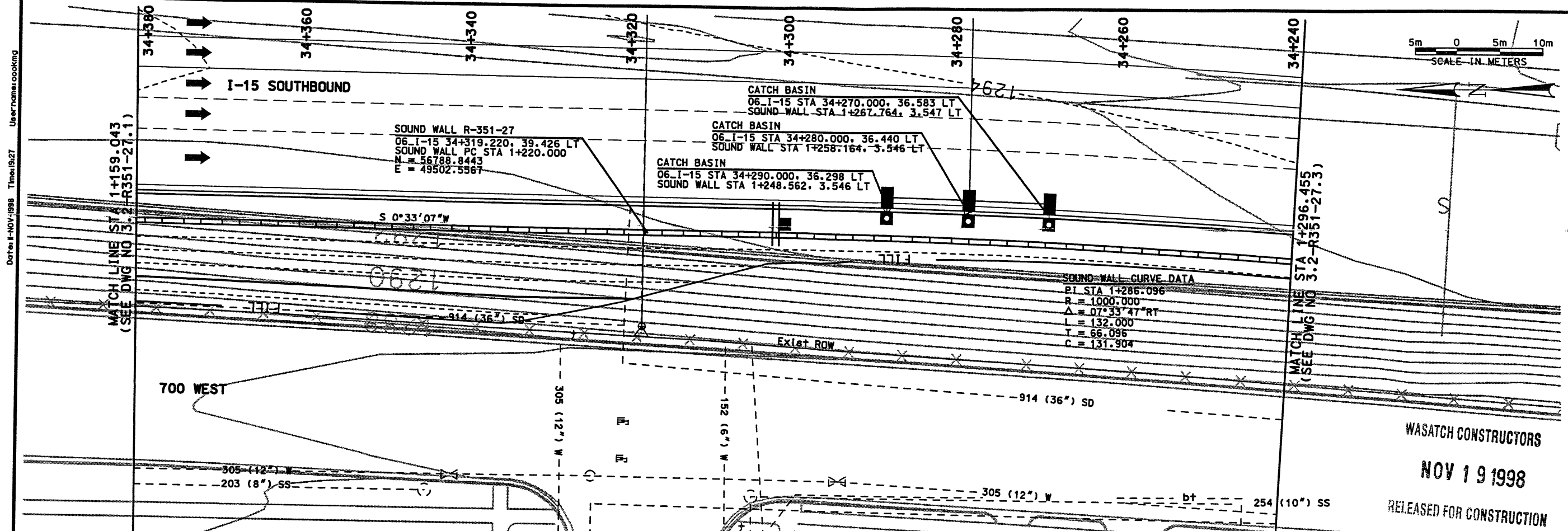
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WALL R-351-27
VIEW IS FRONT FACE OF WALL

WASATCH CONSTRUCTORS
NOV 19 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
Δ	11/13/98		
RELEASED FOR CONSTRUCTION			
UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW	
I-15 CORRIDOR RECONSTRUCTION		SECTION 3.2	
SITUATION & LAYOUT		PROJECT NUMBER #SP-15-7(135)296	
DESIGN MC: 11/13/98		CHECK RT: 11/13/98	
DRAWN SVD: 11/13/98		CHECK MC: 11/13/98	
QUANT:		3213419	
APPROVAL RECORD:		DESIGNER: MARVIN COOK	
DATE: 11/13/98		PROJECT DESIGN ENGINEER:	
APPROVED 11/13/98		DATE:	
SECTION MANAGER: KEITH SABOL		CHECKER: KEITH SABOL	
DATE:		DATE:	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-27.1	
SHT. 1 OF 11			



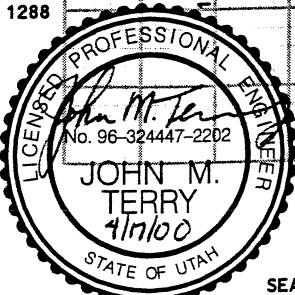
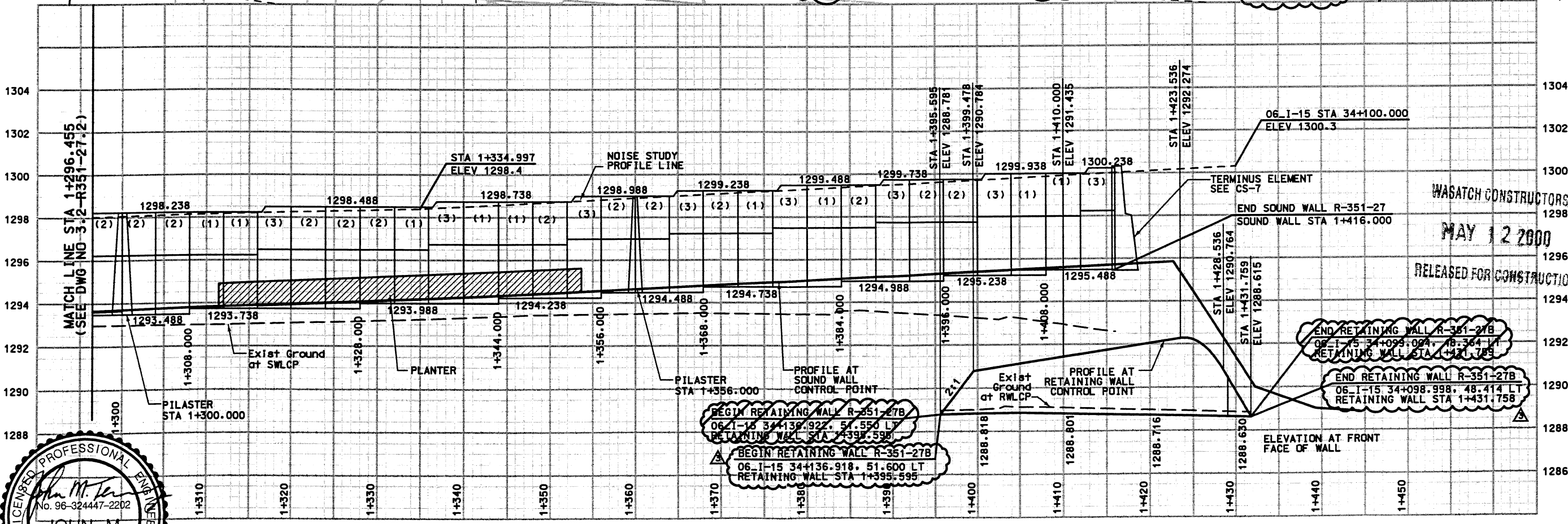
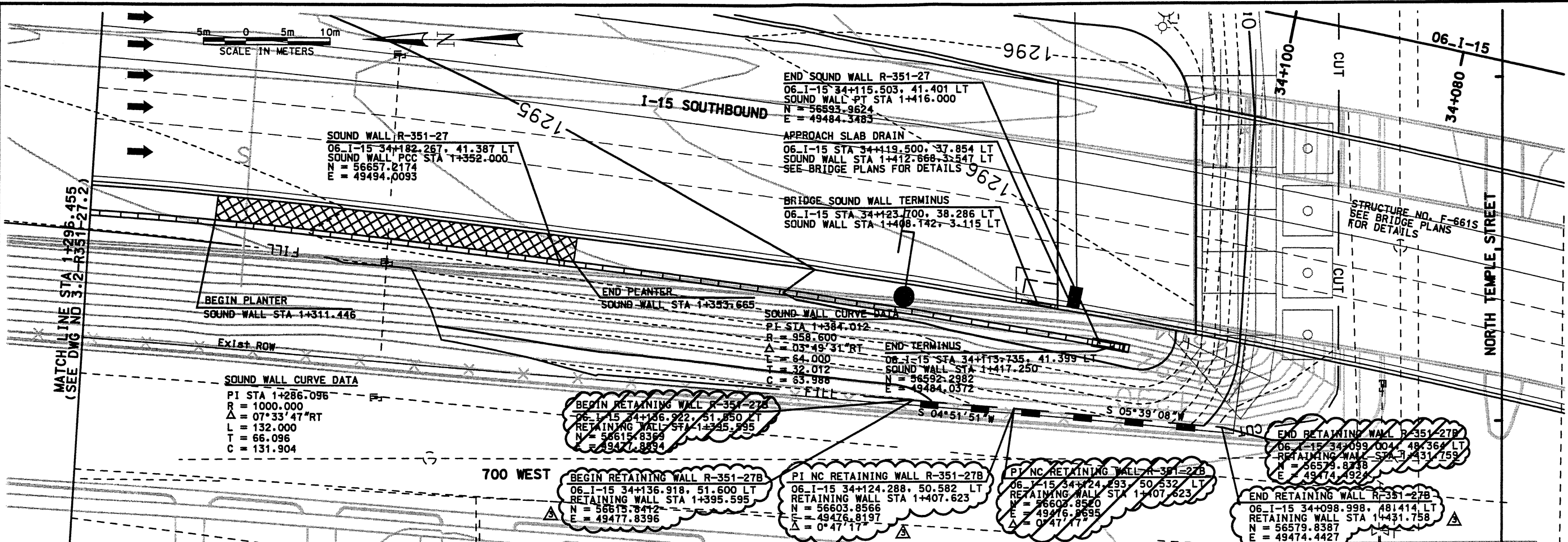
WALL R-351-27
VIEW IS FRONT FACE OF WALL

WASATCH CONSTRUCTORS
NOV 19 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	11/13/98 RELEASE FOR CONSTRUCTION SOUNDWALL	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		CHECK RT	11/13/98
MARVIN COOK		CHECK MC	11/13/98
PROJECT DESIGN ENGINEER		CHECK SVD	11/13/98
DATE		CHECK	
APPROVED 11/13/98		QUANT.	
KEITH SABOL		SECTION MANAGER	
DATE			
I-15 CORRIDOR RECONSTRUCTION		SALT LAKE COUNTY	
SITUATION & LAYOUT		DWG. NO.	
SECTION 3.2		3.2-R351-27.2	
PROJECT NUMBER #SP-15-7(135)296		SHT. 2 OF 11	

Date: 11-APR-2000 Time: 15:34 User: name1.dodsonj

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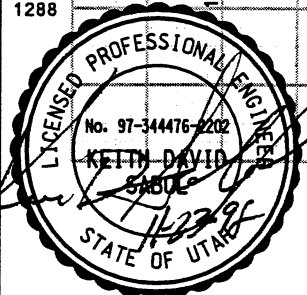
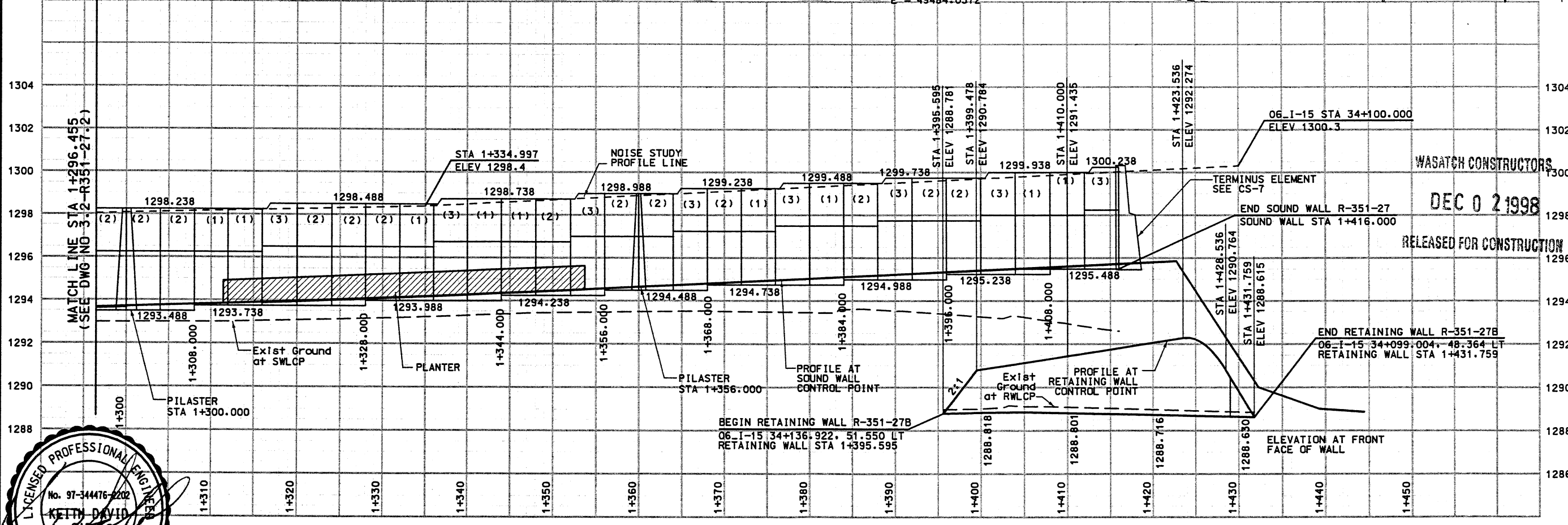
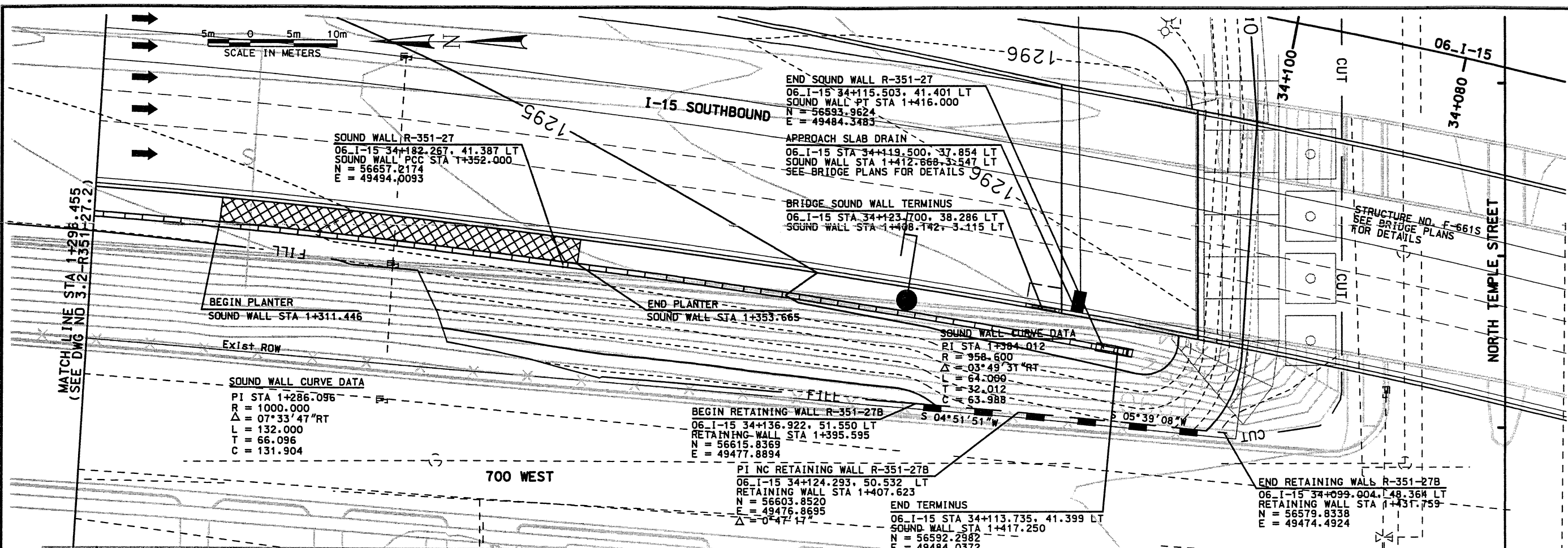
WALL R-351-27
VIEW IS FRONT FACE OF WALL

APPROVED FOR CONSTRUCTION	
NO.	DATE
Δ	11/13/98
Δ	11/23/98
Δ	4/1/00

UTAH DEPARTMENT OF TRANSPORTATION	
NO.	DESCRIPTION
Δ	RELEASE MSE AND SOUNDWALL FOR CONSTRUCTION
Δ	REVISED CS REFERENCE FOR END TERMINUS
Δ	RELEASED PER FDC 7-0143

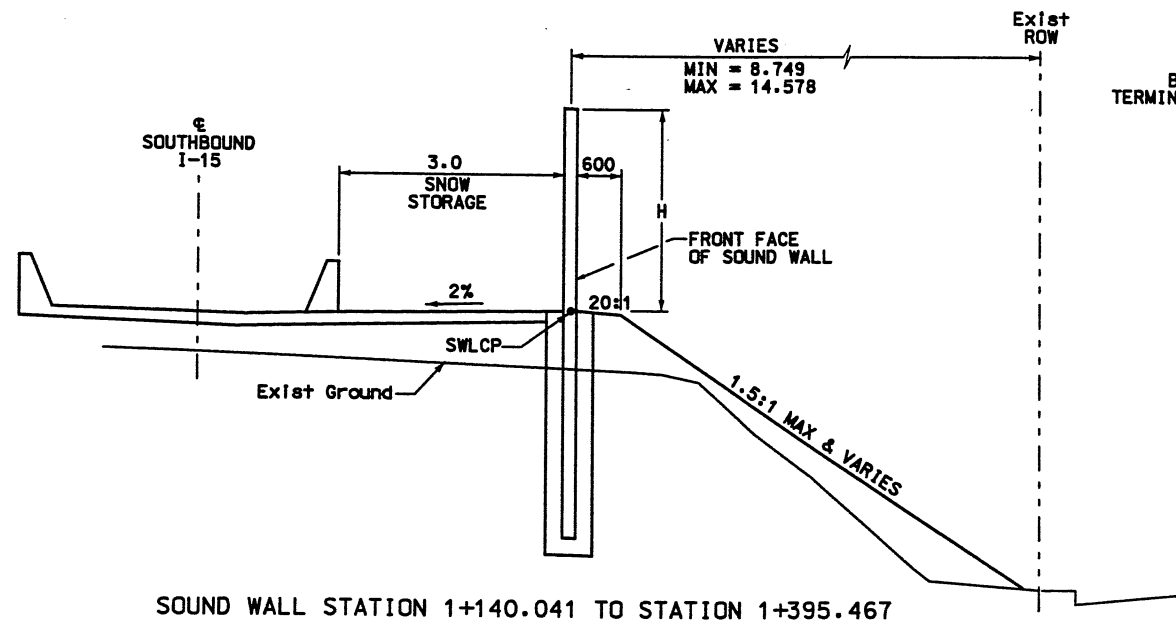
I-15 CORRIDOR RECONSTRUCTION	
SITUATION & LAYOUT	
SECTION 3.2	
PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY	
DWC NO. 3.2-R351-27.3	
SHT. 3 OF 11	
APPROVAL DATE: 11/23/98	DESIGN MC: 11/23/98
RECOMM. DATE: 11/23/98	CHECK RT: 11/23/98
APPROVED 11/23/98	CHECK MC: 11/23/98
MARVIN COOK PROJECT DESIGN ENGINEER	CHECK SVD: 11/23/98
KEITH SABOL SECTION MANAGER	CHECK QUANT: 11/23/98
	QUANT. 3213419

RFC After Final Approval

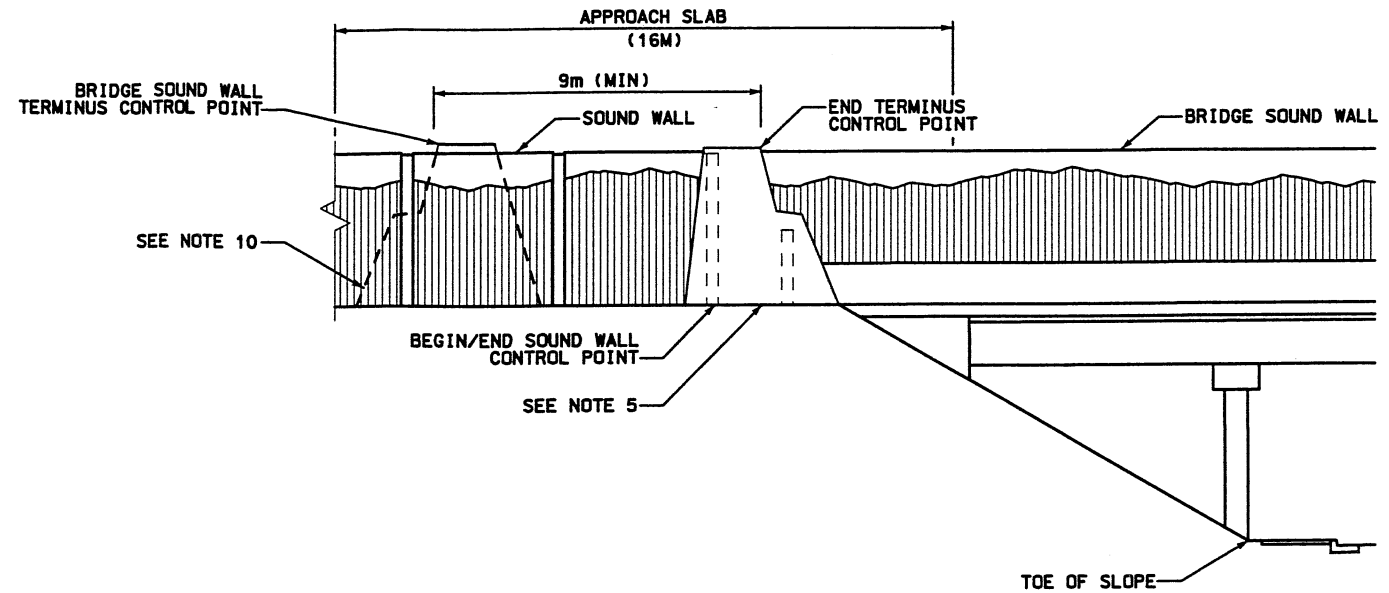


WALL R-351-27
 VIEW IS FRONT FACE OF WALL

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	11/23/98	2	11/23/98
RELEASE USE AND SOUNDWALL FOR CONSTRUCTION		REVISED CS REFERENCE FOR END TERMINUS	
CHECK MC 11/23/98		CHECK MC 11/23/98	
CHECK RT 11/23/98		CHECK MC 11/23/98	
QUANT. 3213419		QUANT. 3213419	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
DESIGN MC 11/23/98		CHECK RT 11/23/98	
DRAWN SVD 11/23/98		CHECK MC 11/23/98	
PROJECT DESIGN ENGINEER		CHECK MC 11/23/98	
MARVIN COOK		CHECK MC 11/23/98	
DATE 11/23/98		CHECK MC 11/23/98	
APPROVED 11/23/98		CHECK MC 11/23/98	
DATE 11/23/98		CHECK MC 11/23/98	
PROJECT NUMBER #SP-15-7(135)296		SECTION MANAGER	
SECTION 3.2		KELTH SABOL	
SITUATION & LAYOUT		SECTION MANAGER	
I-15 CORRIDOR RECONSTRUCTION		QUANT.	
SALT LAKE COUNTY		QUANT.	
DWG. NO. 3.2-R351-27.3		QUANT.	
SHT. 3 OF 11		QUANT.	



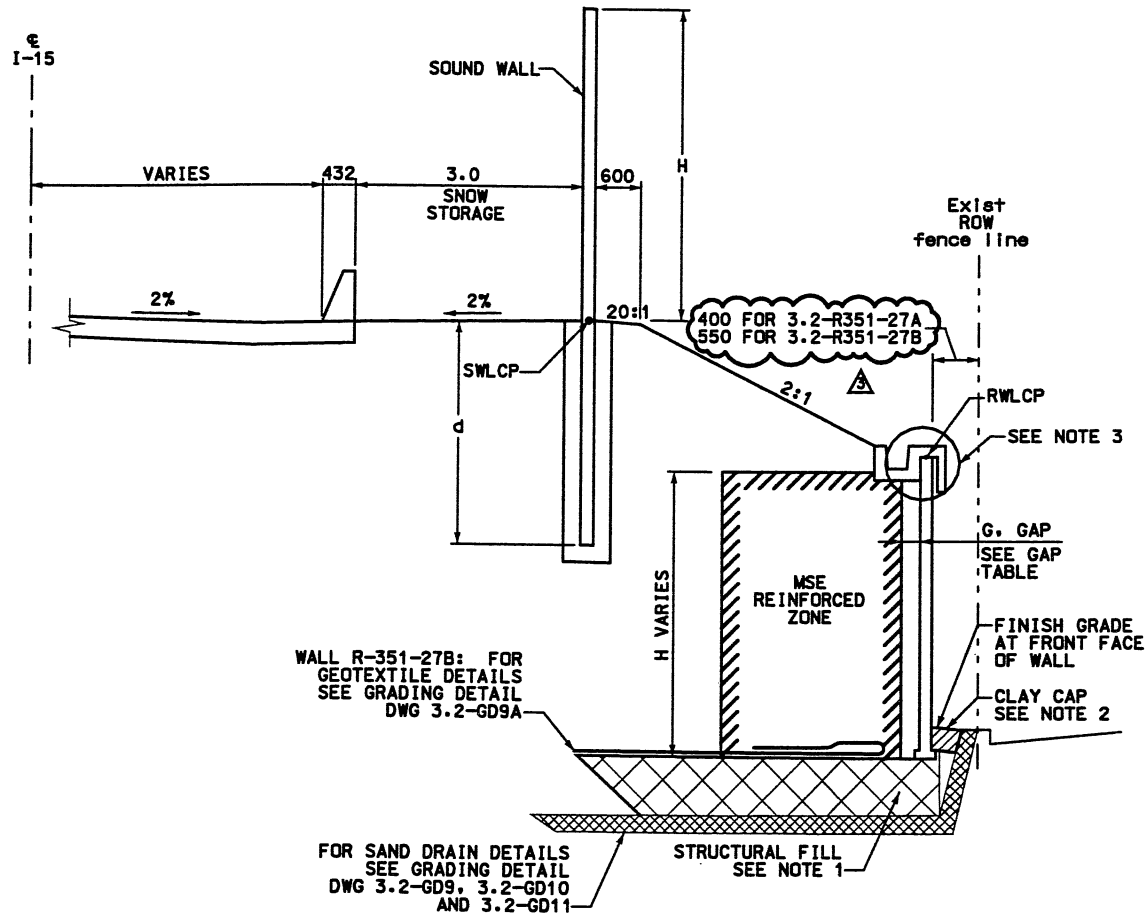
SOUND WALL STATION 1+140.041 TO STATION 1+395.467



SOUND WALL OVER BRIDGE TRANSITION

WASATCH CONSTRUCTORS

MAY 12 2000



WALL R-351-27B: FOR GEOTEXTILE DETAILS SEE GRADING DETAIL DWG 3.2-GD9A

FOR SAND DRAIN DETAILS SEE GRADING DETAIL DWG 3.2-GD9, 3.2-GD10 AND 3.2-GD11

WALL R-351-27A: RETAINING WALL STA 0+995.575 TO STA 1+140.062
 WALL R-351-27B: RETAINING WALL STA 1+395.595 TO STA 1+431.758

WALL HEIGHT	1.5:1.0 SLOPE POST EMBEDMENT	2:1 SLOPE POST EMBEDMENT
2.00	1.800	1.500
2.25	1.963	1.663
2.50	2.125	1.825
2.75	2.288	1.988
3.00	2.450	2.150
3.25	2.613	2.313
3.50	2.775	2.475
3.75	2.938	2.638
4.00	3.100	2.800
4.25	3.263	2.963
4.50	3.425	3.125
4.75	3.588	3.288
5.00	3.750	3.450

WALL	RETAINING WALL STA	G. (mm) SEE NOTE*	MAXIMUM EXPECTED LATERAL MOVEMENT (mm)	MINIMUM EXPECTED POST-CONSTRUCTION GAP (mm)
R-351-27A	0+995.575	450	TAPER	145
	1+000.000	650	CONSTANT	345
	1+136.000	650	TAPER	345
	1+140.066	450	TAPER	145
R-351-27B	1+395.595	450	TAPER	145
	1+399.478	650	CONSTANT	345
	1+423.536	650	TAPER	345
	1+431.759	450	TAPER	145

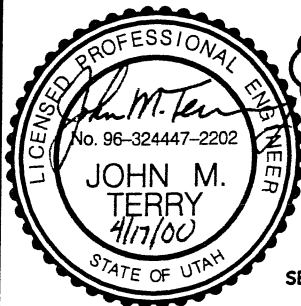
NOTE*: G = DISTANCE BETWEEN BACK OF WALL PANEL AND WIRE FACE AT INITIAL CONSTRUCTION TO ACCOMMODATE EXPECTED LATERAL MOVEMENT DURING CONSTRUCTION AND PRIMARY FOUNDATION SETTLEMENT.

NOTES:

- OVEREXCAVATE EXISTING SOILS AS REQUIRED. REFILL EXCAVATION WITH STRUCTURAL FILL AS PER CORRIDOR STANDARD SPECIFICATION 220.2.
- CONSTRUCT 300mm CLAY CAP WITH LOW PLASTIC SILTY CLAY AS PER CORRIDOR STANDARD SPECIFICATION.
- FOR COPING DETAILS SEE CORRIDOR STANDARD PLAN CS-30-2, CIP GUTTER. FOR ADDITIONAL DRAINAGE INFORMATION SEE DRAINAGE PLAN SHEETS.
- FOR SOUNDWALL CORRIDOR DETAILS SEE STANDARDS CS-5 AND CS-6.
- FOR SOUNDWALL TERMINUS ELEMENT DETAILS SEE CS-7 AND CS-8.
- FOR SOUNDWALL PILASTER ELEMENT DETAIL SEE CS-39-2.
- FOR SOUNDWALL REINFORCING DETAIL SEE UDOT STANDARD 545-01 AND 545-02.
- COORDINATE TENSAR STRUCTURAL GEOGRID PENETRATIONS WITH LOCATION OF WALL POST ON PLANS. SEE CS-74-1, AND CS-74-2.
- SEE CS-57 FOR ADDITIONAL SIDE SLOPE TREATMENT DETAILS.
- FOR BRIDGE SOUND WALL TERMINUS ELEMENT DETAIL, SEE CS-97-1.

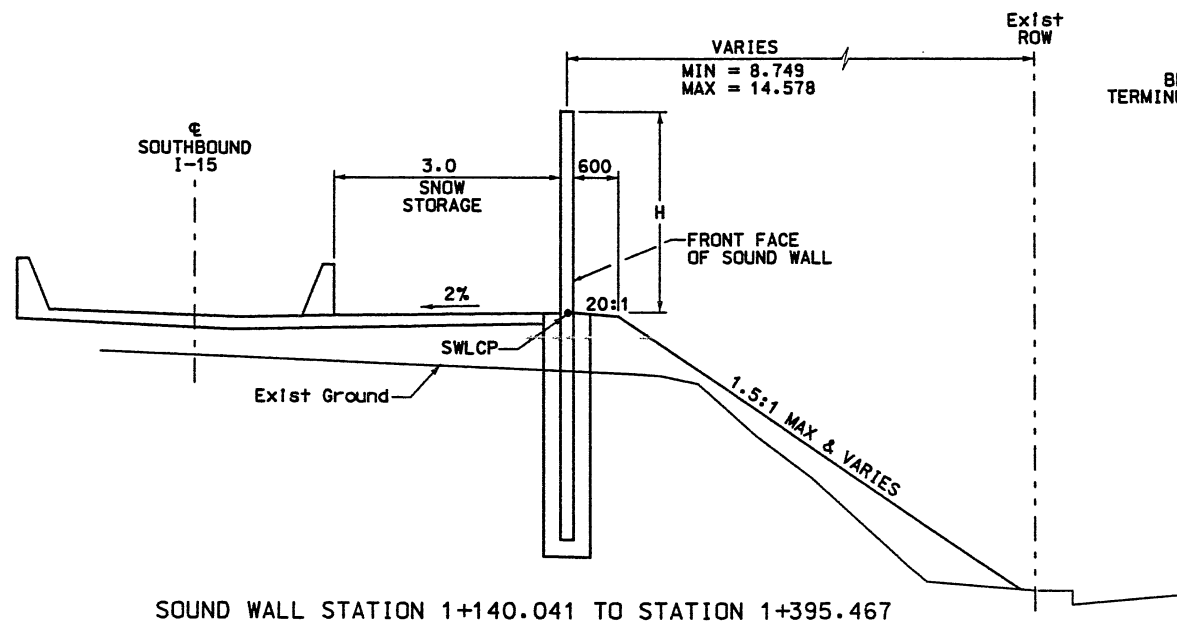
RETAINING WALL DETAILS
 NTS

WALL R351-27
 2 STAGE MSE

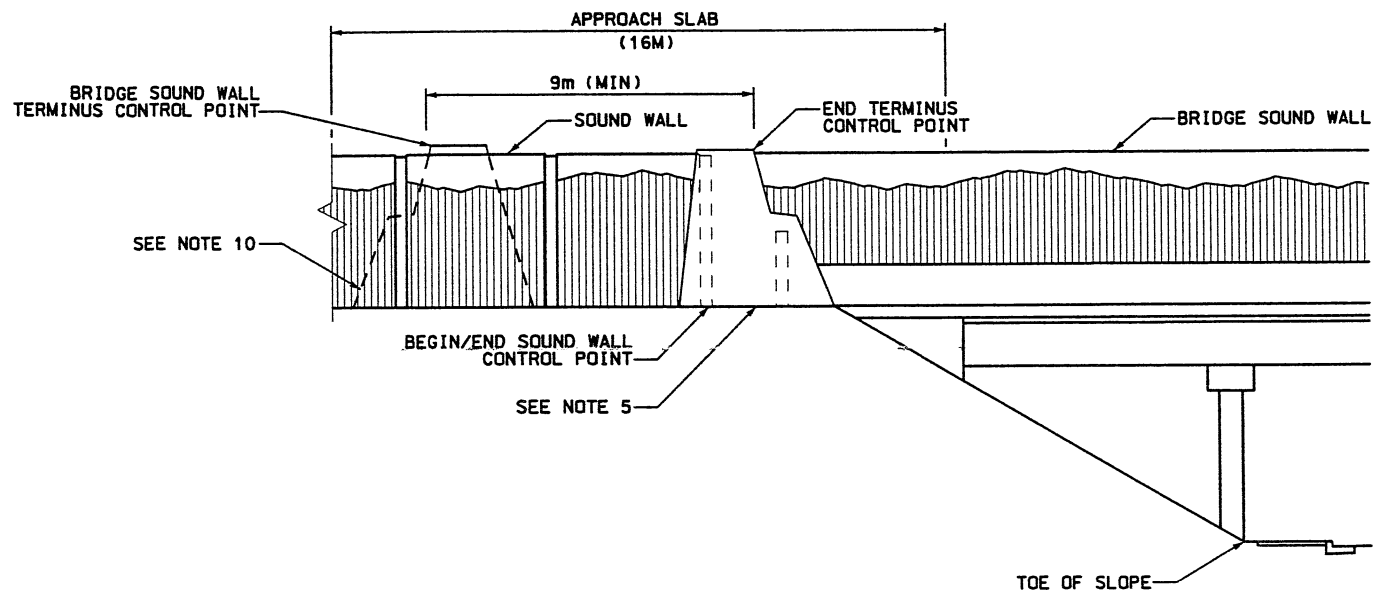


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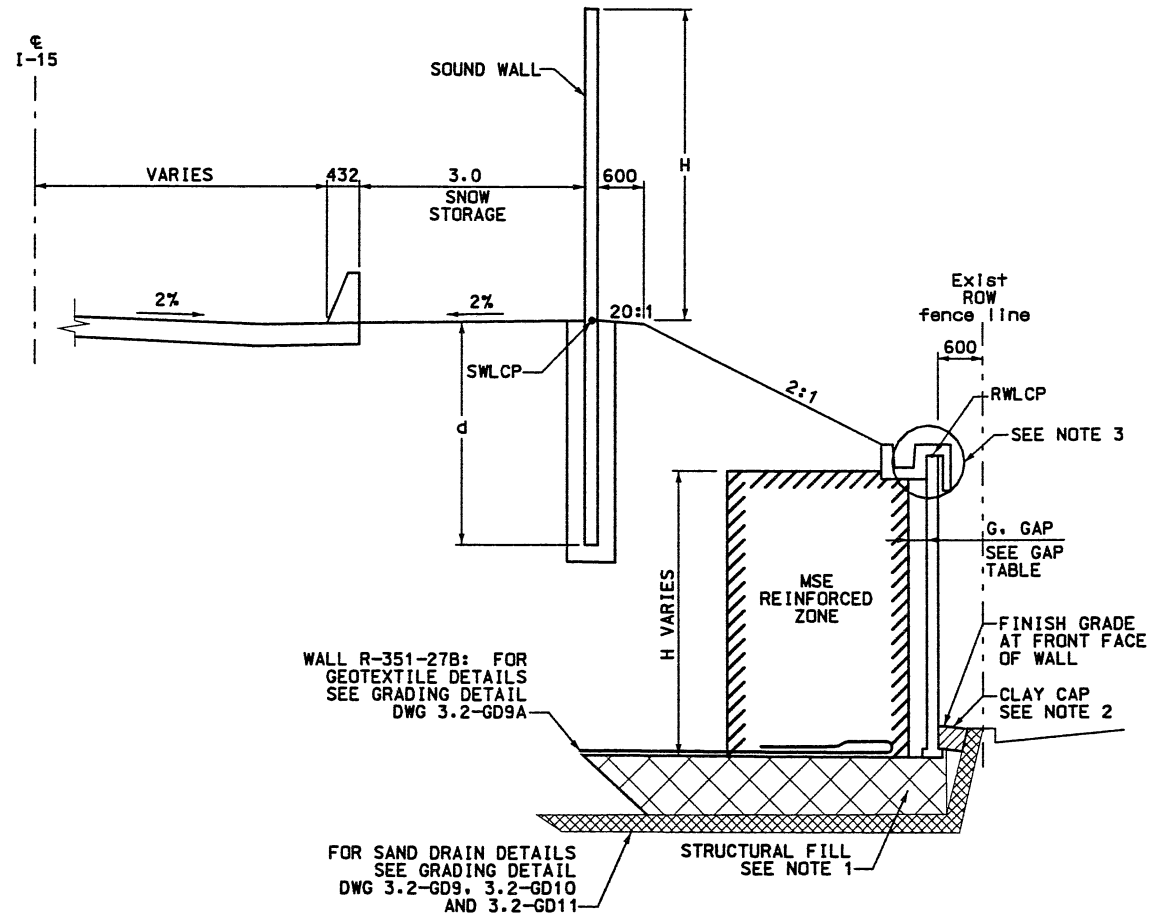
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NO.	DATE	NO.	DATE
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A	11/23/98	A	11/23/98
A	4/11/00	A	4/11/00
RELEASE MSE AND SOUNDWALL FOR CONSTRUCTION		REVISED CS REFERENCE FOR END TERMINUS	
REVISED PER FDC 7-0142 & 7-0143			
SVERDRUP/DE LEUW		3213419	
UTAH DEPARTMENT OF TRANSPORTATION		MAY 12 2000	
I-15 CORRIDOR RECONSTRUCTION		TYPICAL SECTION	
SECTION 3.2		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-27.4	
SHT. 4 OF 11		RFC After Final Approval	



SOUND WALL STATION 1+140.041 TO STATION 1+395.467



SOUND WALL OVER BRIDGE TRANSITION



WALL R-351-27A: RETAINING WALL STA 0+995.575 TO STA 1+140.066
 WALL R-351-27B: RETAINING WALL STA 1+395.595 TO STA 1+431.759

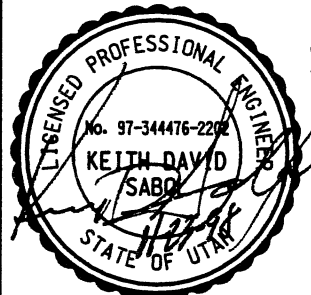
WALL HEIGHT	1.5:1.0 SLOPE POST EMBEDMENT	2:1 SLOPE POST EMBEDMENT
2.00	1.800	1.500
2.25	1.963	1.663
2.50	2.125	1.825
2.75	2.288	1.988
3.00	2.450	2.150
3.25	2.613	2.313
3.50	2.775	2.475
3.75	2.938	2.638
4.00	3.100	2.800
4.25	3.263	2.963
4.50	3.425	3.125
4.75	3.588	3.288
5.00	3.750	3.450

WALL	RETAINING WALL STA	G. (mm) SEE NOTE*	MAXIMUM EXPECTED LATERAL MOVEMENT (mm)	MINIMUM EXPECTED POST-CONSTRUCTION GAP (mm)
R-351-27A	0+995.575	450	TAPER	145
	1+000.000	650		345
	1+136.000	650	TAPER	345
	1+140.066	450		145
R-351-27B	1+395.595	450	TAPER	145
	1+399.478	650		345
	1+423.536	650	TAPER	345
	1+431.759	450		145

NOTE*: G = DISTANCE BETWEEN BACK OF WALL PANEL AND WIRE FACE AT INITIAL CONSTRUCTION TO ACCOMMODATE EXPECTED LATERAL MOVEMENT DURING CONSTRUCTION AND PRIMARY FOUNDATION SETTLEMENT.

- NOTES:
- OVEREXCAVATE EXISTING SOILS AS REQUIRED. REFILL EXCAVATION WITH STRUCTURAL FILL AS PER CORRIDOR STANDARD SPECIFICATION 220.2.
 - CONSTRUCT 300mm CLAY CAP WITH LOW PLASTIC SILTY CLAY AS PER CORRIDOR STANDARD SPECIFICATION.
 - FOR COPING DETAILS SEE CORRIDOR STANDARD PLAN CS-30-2, CIP GUTTER. FOR ADDITIONAL DRAINAGE INFORMATION SEE DRAINAGE PLAN SHEETS.
 - FOR SOUNDWALL CORRIDOR DETAILS SEE STANDARDS CS-5 AND CS-6.
 - FOR SOUNDWALL TERMINUS ELEMENT DETAILS SEE CS-7 AND CS-8.
 - FOR SOUNDWALL PILASTER ELEMENT DETAIL SEE CS-39-2.
 - FOR SOUNDWALL REINFORCING DETAIL SEE UDOT STANDARD 545-01 AND 545-02.
 - COORDINATE TENSAR STRUCTURAL GEOGRID PENETRATIONS WITH LOCATION OF WALL POST ON PLANS. SEE CS-74-1, AND CS-74-2.
 - SEE CS-57 FOR ADDITIONAL SIDE SLOPE TREATMENT DETAILS.
 - FOR BRIDGE SOUND WALL TERMINUS ELEMENT DETAIL. SEE CS-97-1.

RETAINING WALL DETAILS
 NTS
 WALL R351-27
 2 STAGE MSE



APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW

SECTION 3.2

PROJECT NUMBER *SP-15-7(135)296

SALT LAKE COUNTY

DWG. NO. 3.2-R351-27.4

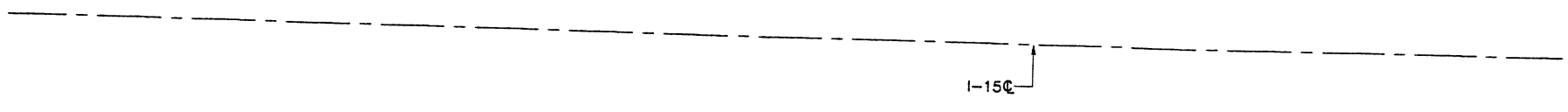
SHT. 4 OF 11

APPROVAL: 11/23/98 MARVIN COOK CHECK RT 11/23/98
 DATE PROJECT DESIGN ENGINEER
 APPROVED 11/23/98 KEITH SABOL CHECK MC 11/23/98
 DATE SECTION MANAGER

3213419

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY

NO.	DATE	REVISION



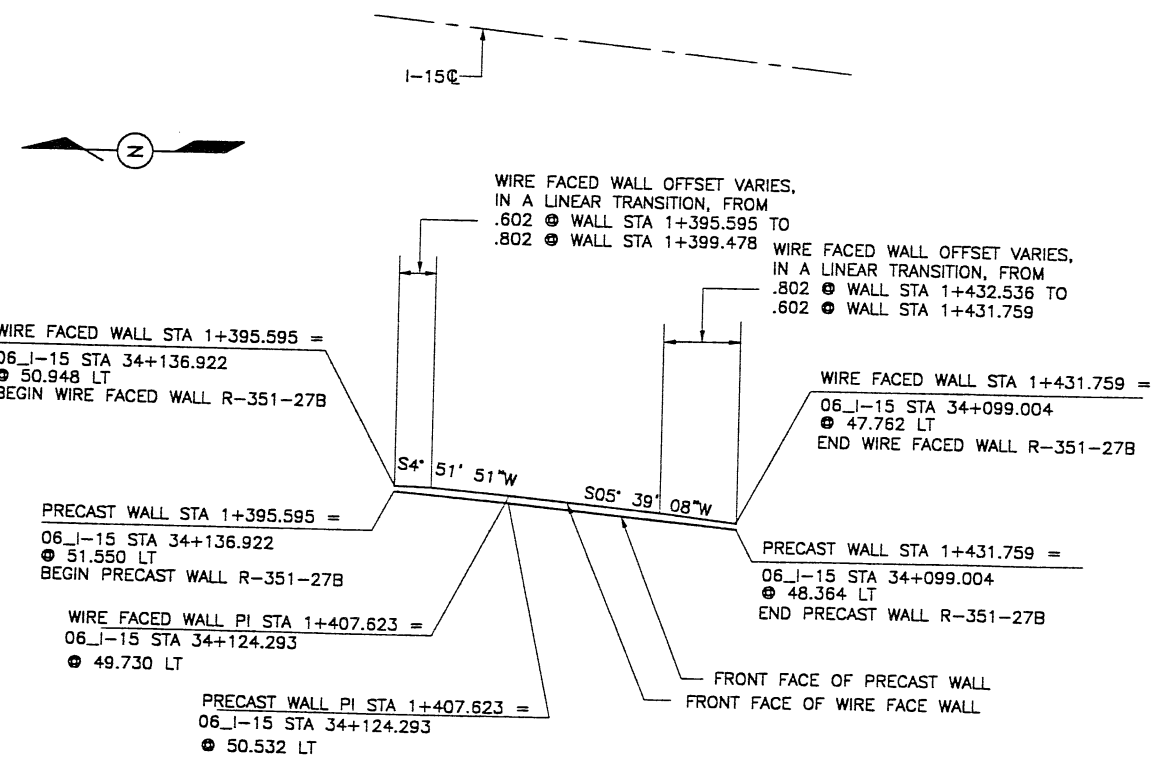
PLAN VIEW MSE WALL "R-351-27A"

SCALE: 1:400 (FULL SIZE)
SCALE: 1:800 (HALF SIZE)

RETAINED EARTH INDEX	
RE-1	PLAN WIRE FACED WALL R-351-27, NOTES & DESIGN CRITERIA
RE-2	TYPICAL CROSS SECTIONS @ WIRE FACED WALL
RE-3	TYPICAL CROSS SECTION
RE-4	WIRE FACED WALL R-351-27A
RE-5	WIRE FACED WALL R-351-27A
RE-6	WIRE FACED WALL R-351-27A
RE-7	WIRE FACED WALL R-351-27B

DESIGN PARAMETERS	
ANGLE OF INTERNAL FRICTION (SELECT)	= 34°
ANGLE OF INTERNAL FRICTION (BASE)	= 34°
ANGLE OF INTERNAL FRICTION (RANDOM)	= 34°
UNIT WEIGHT BACKFILL	= 135 PCF. (21.2 KN/M ³)
TRAFFIC SURCHARGE	= 250 PSF
SEISMIC ACCELERATION COEFF.	= 0.27g 50 YR

DESIGN CRITERIA	
SAFETY FACTOR (OVERTURNING)	= 2.0
SAFETY FACTOR (SLIDING)	= 1.5
SAFETY FACTOR (PULLOUT)	= 1.5
DESIGN LIFE	= 75 YEARS



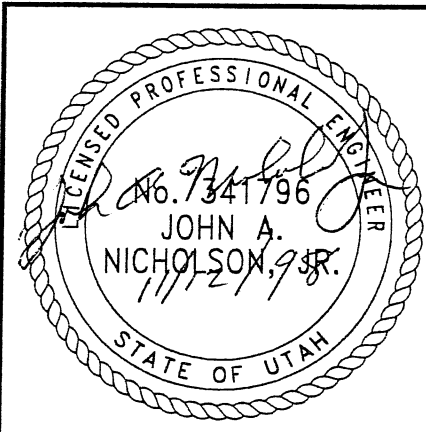
PLAN VIEW MSE WALL "R-351-27B"

SCALE: 1:400 (FULL SIZE)
SCALE: 1:800 (HALF SIZE)

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

METRIC

WASATCH CONSTRUCTORS
NOV 19 1998
RELEASED FOR CONSTRUCTION



VSL CORPORATION
2840 Plus Place, Suite 200
Raleigh, NC 27612 781-8272
Telephone: (919) 781-8272
Fax: (919) 781-8969

ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE)
MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

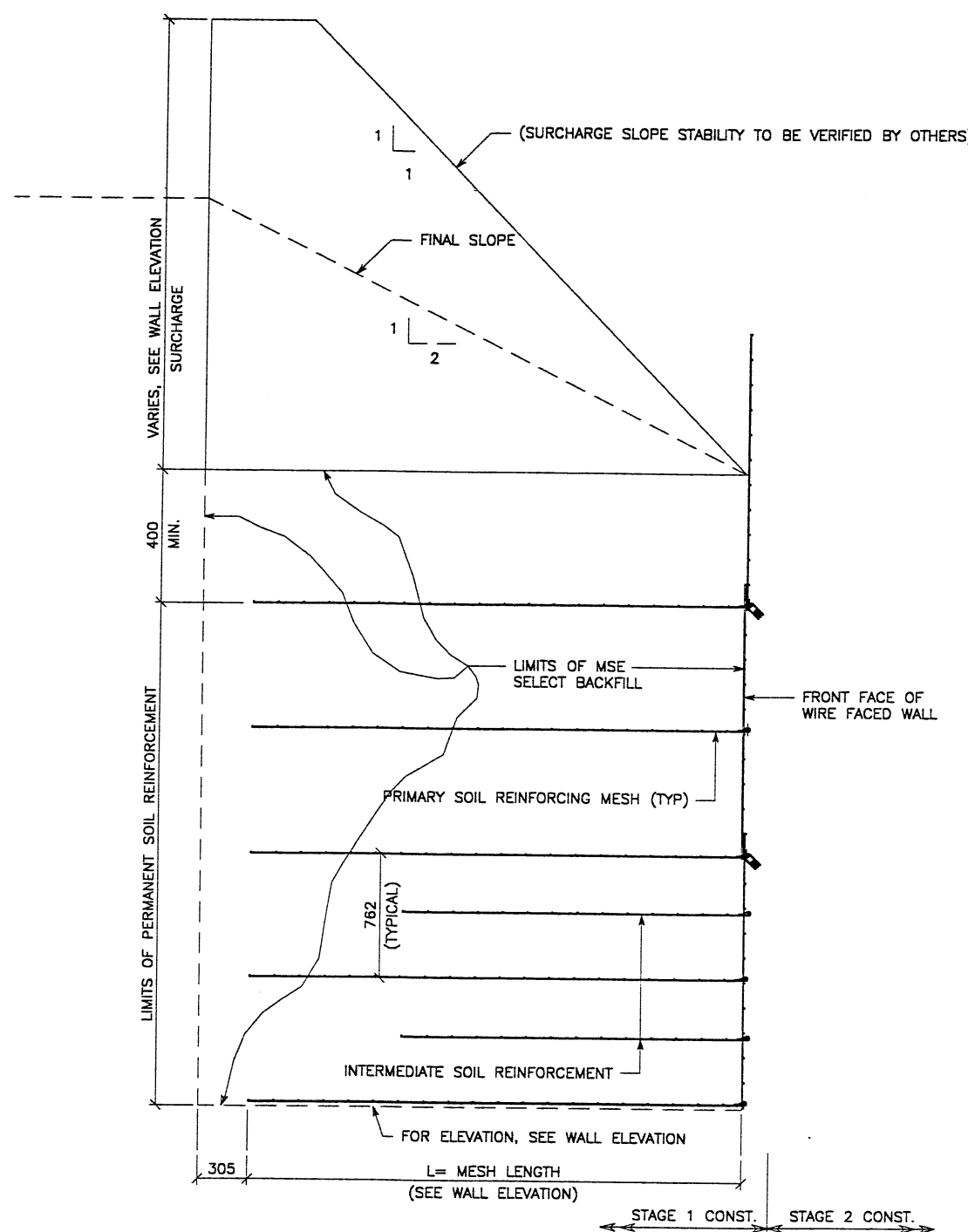
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RETAINED EARTH™ WALLS
PLAN VIEW MSE WALL "R-351-27"

UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2-R351-27.5
JOB NO.	239-0007
SHT. NO.	RE-1

FINAL 11-12-98 H:\RE_EARTH\PROJECT\239-0007\1998\SUBMITL-2\65-27\RE-2 E (X-UTAH.DWG)



TYPICAL CROSS SECTION
STAGE 1 CONSTRUCTION WITH SURCHARGE
 (SEE FIG. 8-2.2 DESIGN MEMORANDUM 3.2.37 WALL R-351-27)
 SCALE: 1:20 (FULL SIZE)
 SCALE: 1:40 (HALF SIZE)

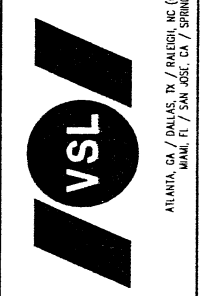
SEE FOSTER GEOTECHNICAL STD
 DWG FOR PLACEMENT OF
 INTERMEDIATE SOIL REINFORCEMENT
 & ADDITIONAL 2-STAGE WALL
 INFORMATION

NOTE: INTERMEDIATE SOIL REINFORCEMENT SHALL
 BE PLACED BEGINNING AT THE BOTTOM OF WALL
 SECTION TO A HEIGHT ENDING 4.5m ABOVE THE
 TOP OF COPING. IF A WALL SECTION IS LESS
 THEN 4.5m TALL, PLACE 2 ROWS OF INTERMEDIATE
 SOIL REINFORCEMENT AT THE BOTTOM OF THE WALL.
 SEE FOSTER GEOTECHNICAL STANDARD DRAWINGS
 FOR PLACEMENT DETAILS.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY

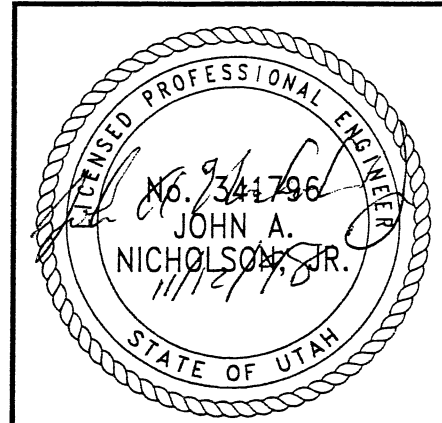
DES.	DRN.	CHK.	NO.	DATE	REVISION	BY	CHK
JN	RSW	JN					

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 2840 Plaza Place, Suite 200
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 Telephone: (919) 781-6272
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WASATCH CONSTRUCTORS
NOV 19 1998
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RETAINED EARTH™ WALLS
 WIRE FACED WALL "R-351-27"
 TYPICAL SECTIONS @ WIRE FACED WALL
 UTAH I-15 RECONSTRUCTION
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2-R351-27.6
JOB NO.	239-0007
SHT. NO.	RE-2

METRIC
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 STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
 ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
 OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO
 THE MANUFACTURER'S SPECIFICATION.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	11-12-98	RELEASE FOR CONSTRUCTION

DES.	DRN.	CHK.	NO.	DATE	REVISION	BY	CHK
JN	RSW	JN					
10-21-98	10-21-98	10-21-98					

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 Fax: (919) 781-4859

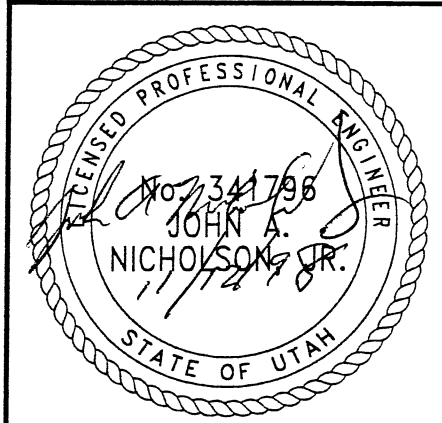
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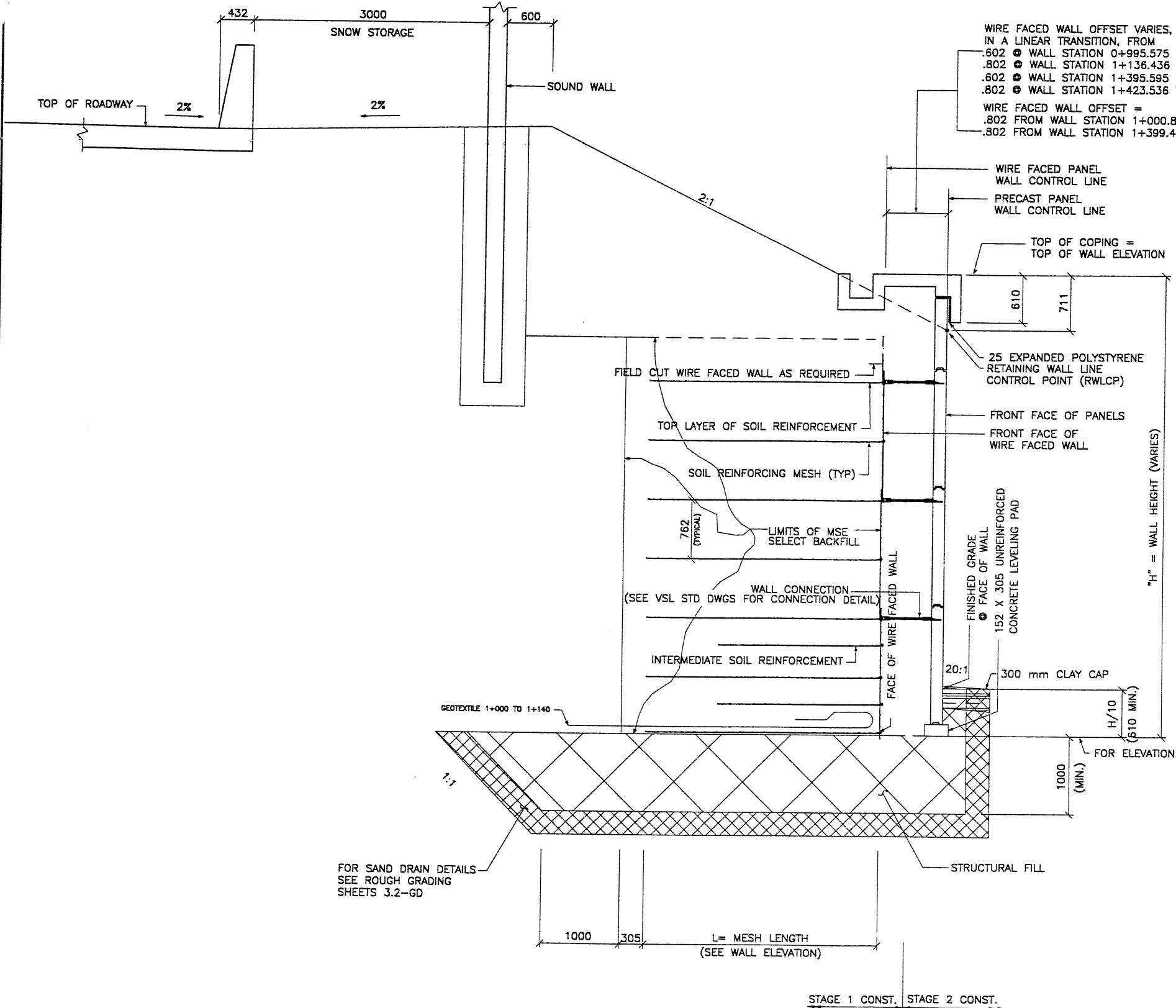
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WASATCH CONSTRUCTORS
NOV 19 1998
 RELEASED FOR CONSTRUCTION

RETAINED EARTH™ WALLS
 WIRE FACED WALL "R-351-27"
 TYPICAL CROSS SECTION
 UTAH 1-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.



DWG. NO.	3.2R-351-27.7
JOB NO.	239-0007
SHT. NO.	RE-3



WIRE FACED WALL OFFSET VARIES, IN A LINEAR TRANSITION, FROM
 .802 @ WALL STATION 0+995.575 TO .802 @ WALL STATION 1+000.865
 .802 @ WALL STATION 1+136.436 TO .602 @ WALL STATION 1+140.066
 .602 @ WALL STATION 1+395.595 TO .802 @ WALL STATION 1+399.478
 .802 @ WALL STATION 1+423.536 TO .602 @ WALL STATION 1+431.759

WIRE FACED WALL OFFSET =
 .802 FROM WALL STATION 1+000.865 TO WALL STATION 1+136.436
 .802 FROM WALL STATION 1+399.478 TO WALL STATION 1+423.536

SEE FOSTER GEOTECHNICAL STD DWG FOR PLACEMENT OF INTERMEDIATE SOIL REINFORCEMENT & ADDITIONAL 2-STAGE WALL INFORMATION

NOTE: INTERMEDIATE SOIL REINFORCEMENT SHALL BE PLACED BEGINNING AT THE BOTTOM OF WALL SECTION TO A HEIGHT ENDING 4.5m ABOVE THE TOP OF COPING. IF A WALL SECTION IS LESS THAN 4.5m TALL, PLACE 2 ROWS OF INTERMEDIATE SOIL REINFORCEMENT AT THE BOTTOM OF THE WALL. SEE FOSTER GEOTECHNICAL STANDARD DRAWINGS FOR PLACEMENT DETAILS.

STA 0+995.575 TO STA 1+140.066
STA 1+395.595 TO STA 1+431.759
TYPICAL CROSS SECTION

(SEE DWG NO. 3.2R-351-27.4 FOR ADDITIONAL INFORMATION)

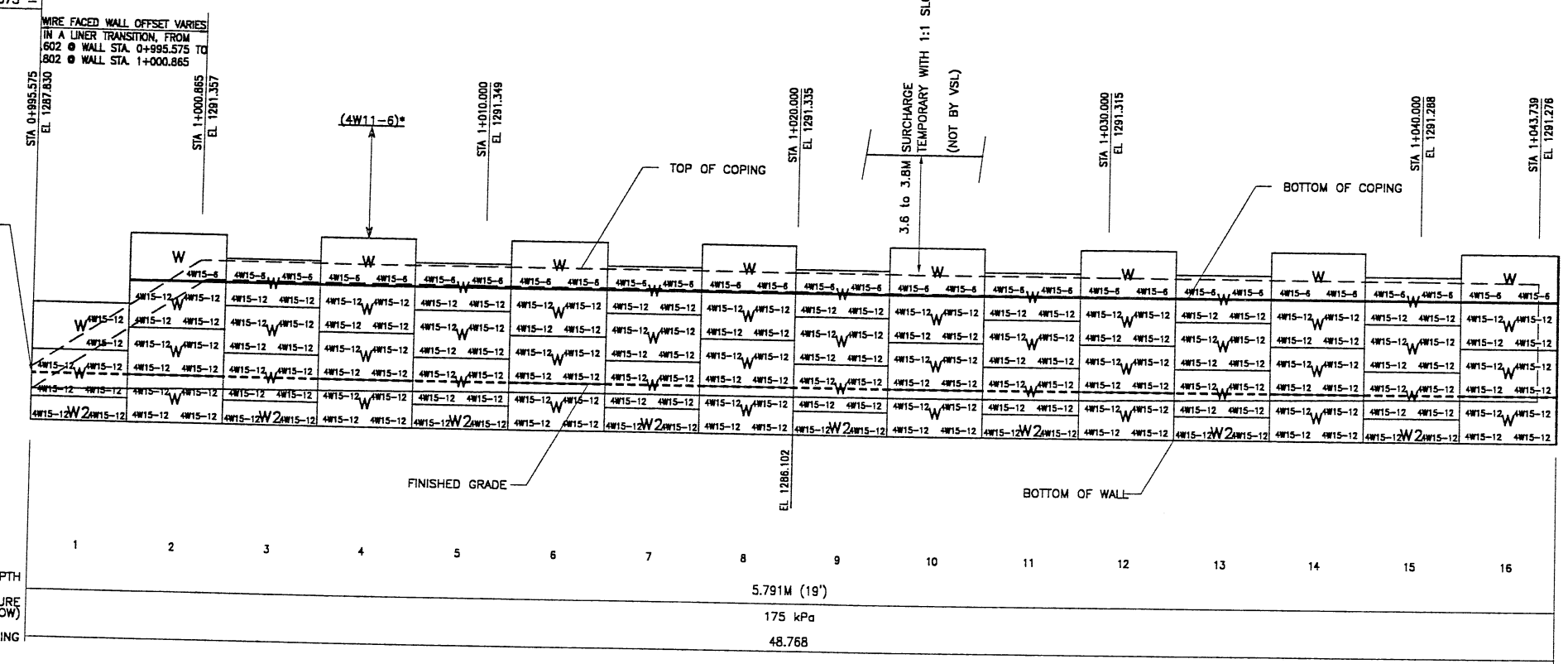
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METRIC

11-12-98
 H:\RE_EARTH\PROJECT\239-0007\1998\65-WA
 V65-27.DWG
 DE (X-UTAH.DWG)

BEGIN WIRE FACED WALL R-351-27A
 WIRE FACED WALL STA 0+995.575 =
 06L-15 STA 34+539.332
 ● 43.907 LT

INSTALL INTERMEDIATE SOIL
 REINFORCEMENT BELOW
 THIS LINE



RETAINING WALL "R-351-27A" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 734.58 SM) SCALE 1:200 (HALF SIZE)

METRIC

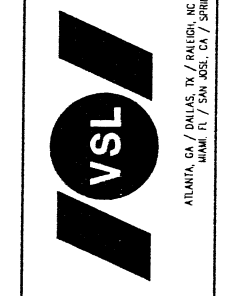
NOTE:
 THE INDICATED MAXIMUM BEARING PRESSURES
 AT FINAL STAGE FOR STATIC LOAD CONDITION.

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 STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
 ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
 OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO
 THE MANUFACTURER'S SPECIFICATION.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY

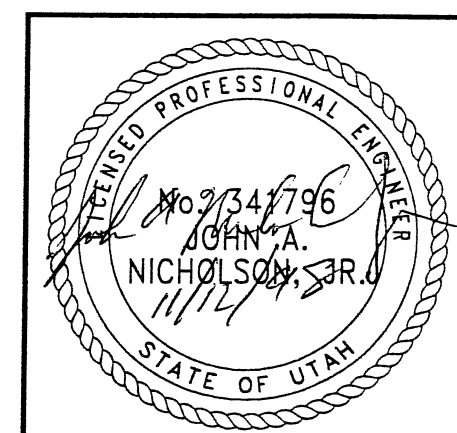
DES.	DRN.	CIK.	RETAINED EARTH™	NO.	DATE	BY
JN	RSW	JN				CIK
10-22-98	10-22-98	10-22-98				

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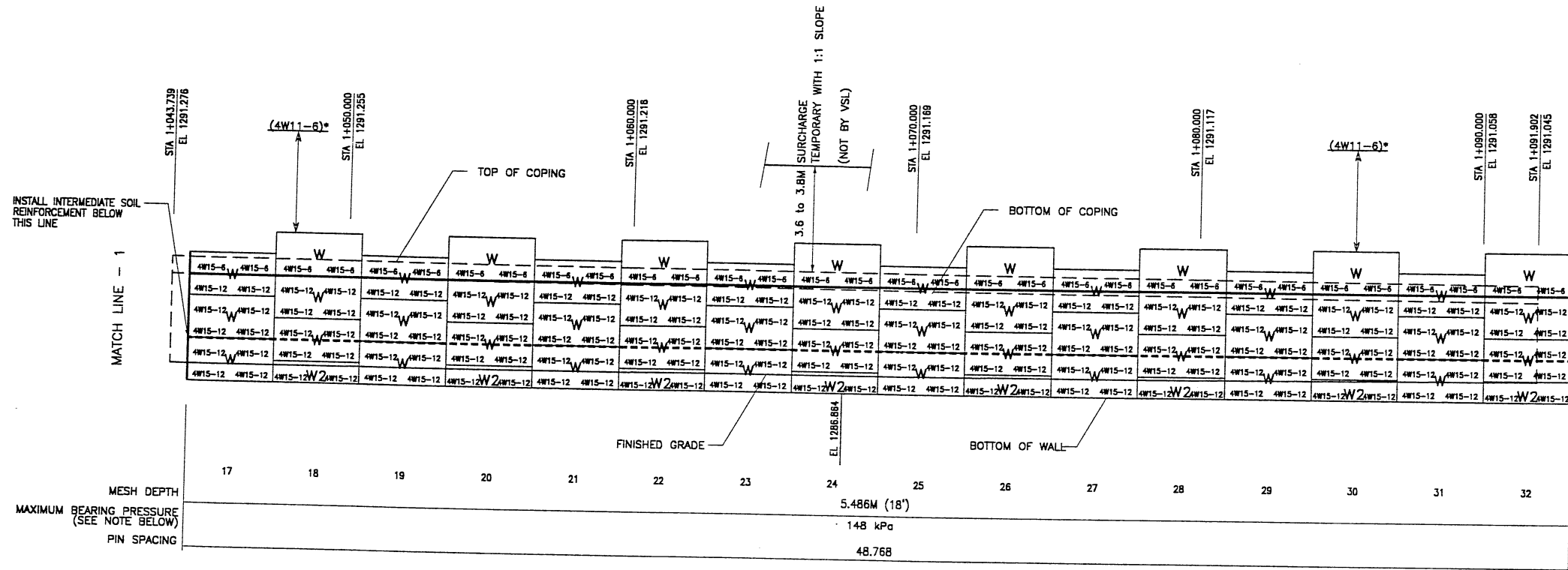
WASATCH CONSTRUCTORS
NOV 19 1998
 RELEASED FOR CONSTRUCTION



RETAINED EARTH™ WALLS
WALL "R-351-27" - 1ST STAGE: WIRE FACED WALL
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.
DWG. NO. 3.2R-351-27.8
JOB NO. 239-0007
SHT. NO. RE-4

11-12-98
 H:\RE_EARTH\PROJECT\239-0007\1998\65-W\65-27.DWG
 XI
 IE (X-UTAH.DWG)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY

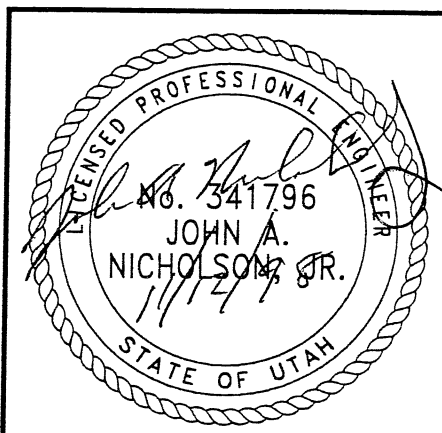


RETAINING WALL "R-351-27A" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 734.58 SM)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

NOTE: THE INDICATED MAXIMUM BEARING PRESSURES AT FINAL STAGE FOR STATIC LOAD CONDITION.



WASATCH CONSTRUCTORS
 NOV 19 1998
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DES.	10-22-98	JN
DRN	10-22-98	RSW
CHK.	10-22-98	JN

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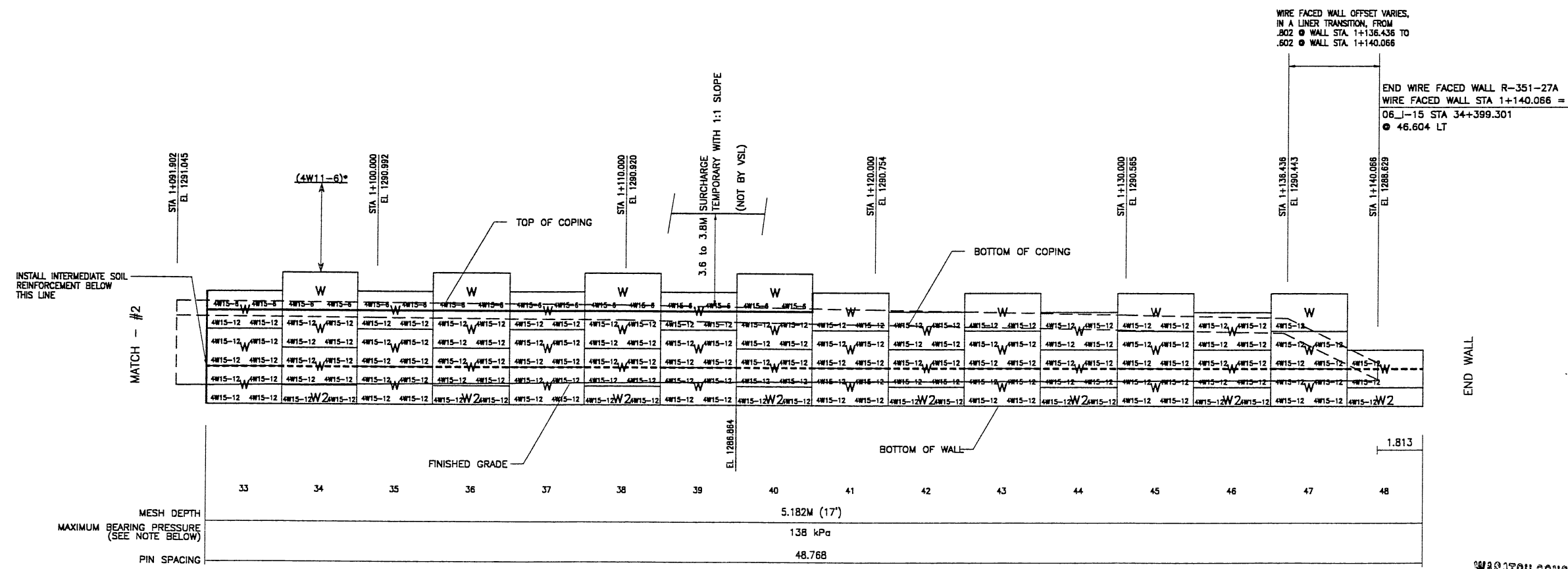
RETAINED EARTH™ WALLS
 WALL "R-351-27" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.
 3.2R-351-27.9
 JOB NO.
 239-0007
 SHT. NO.
 RE-5

11-12-98
 FINAL
 H:\RE_EARTH\PROJECT\239-0007\1998\65-W
 165-27.DWG
 (X-UTAH.DWG)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY

DES.	DRAWN	CHECKED	DATE	NO.	BY
JN	RSW	JN	10-22-98	1	CHK
JN	RSW	JN	10-22-98	2	CHK
JN	RSW	JN	10-22-98	3	CHK



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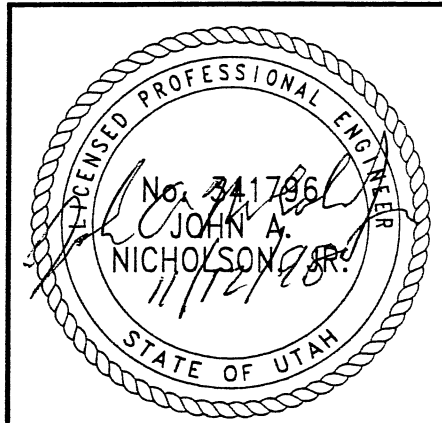
ALABAMA, CA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE)
 MAUI, HI / SAN JOSE, CA / SPRINGFIELD, VA

* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

RETAINING WALL "R-351-27A" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 734.58 SM) SCALE 1:200 (HALF SIZE)

METRIC

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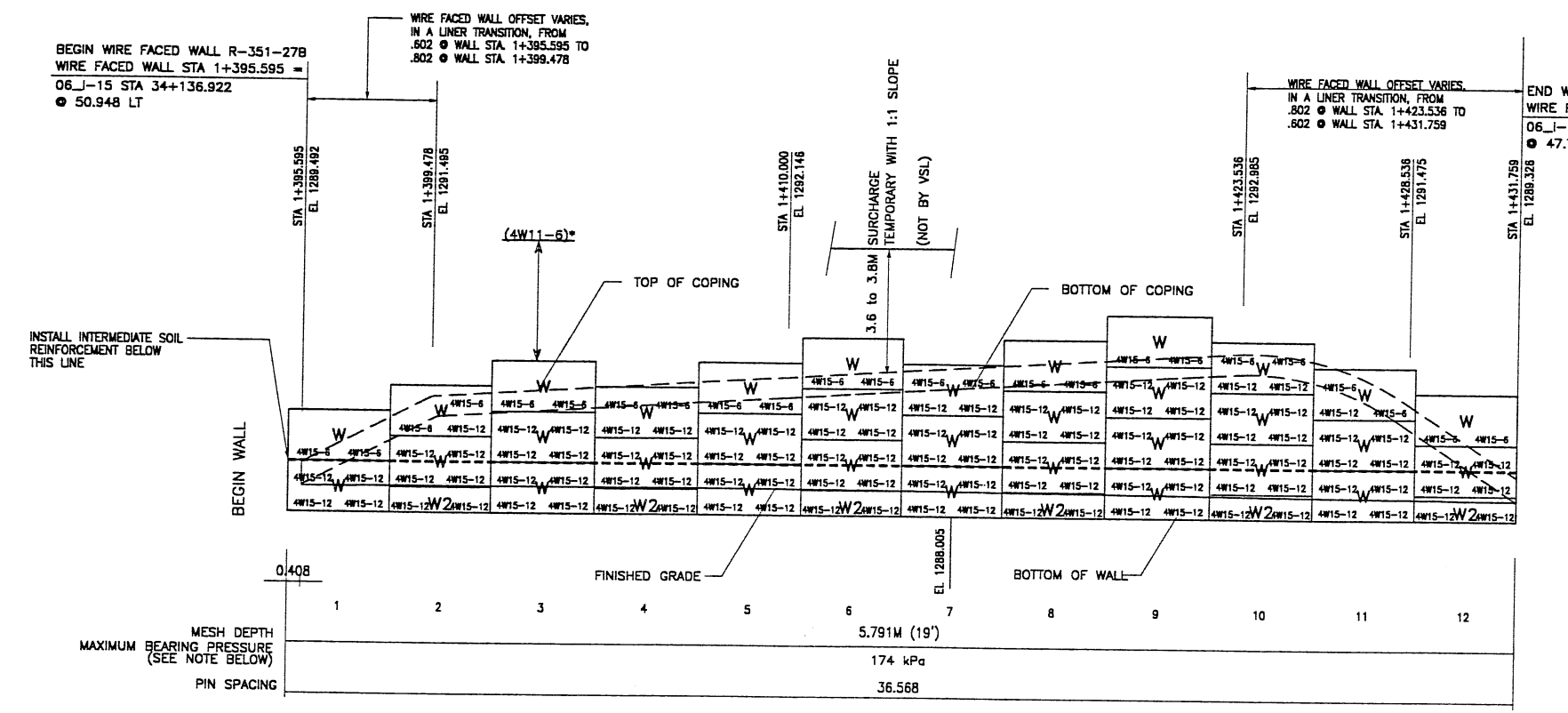
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 WALL "R-351-27" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2R-351-27.10
JOB NO.	239-0007
SHT. NO.	RE-6

X-UTAH.DWG
 VBS-27.DWG
 H:\RE_EARTH\PROJECT\239-0007\1998\65-WA
 11-12-98
 FINAL

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	11-12-98	RELEASE FOR 1ST STAGE CONST. ONLY



* INDICATES SOIL REINFORCING TYPE
 MESH TO BE USED ON ADDITIONAL
 WIRE WALL FACING ADDED AFTER
 SETTLEMENT.

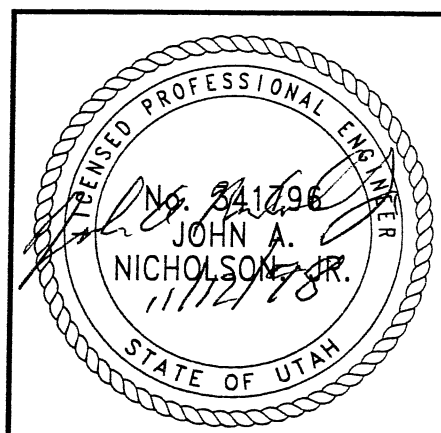
RETAINING WALL "R-351-27B" - 1ST STAGE: WIRE FACED WALL

(FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 167.37 SM) SCALE 1:200 (HALF SIZE)

METRIC

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RETAINED EARTH™ WALLS
 WALL "R-351-27B - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2R-351-27.11
JOB NO.	239-0007
SHT. NO.	RE-7

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