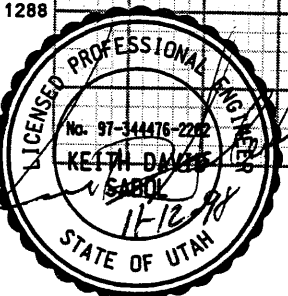
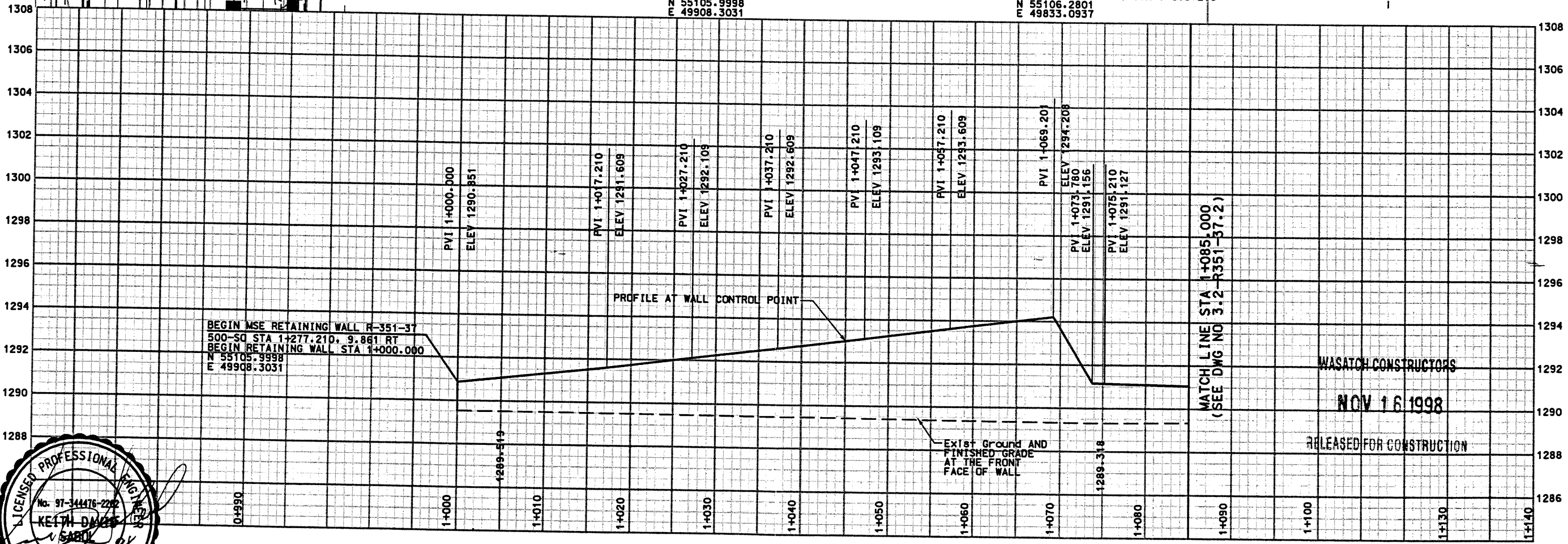
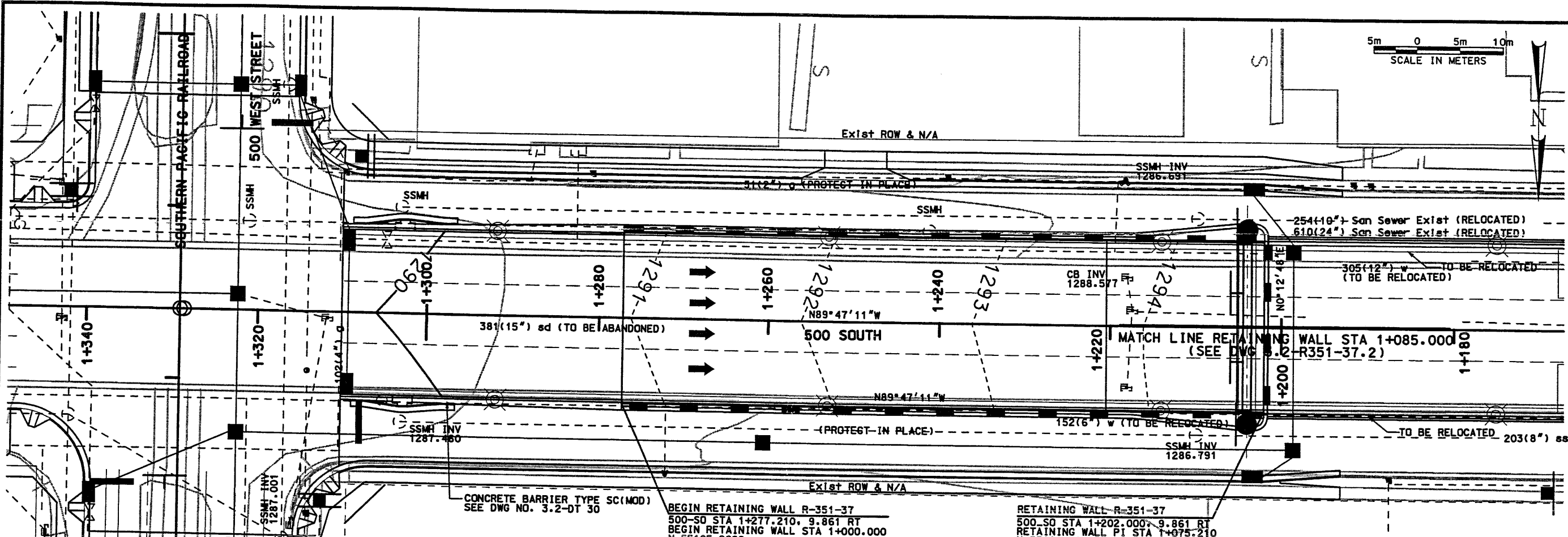


Dotcom ID: 10/11/98 Time: 15:44 User name: ccooking

Filename: R:\JIS_cadd\JIS_cadd\106_97\street_files\wallis\06_wal_37a.dgn



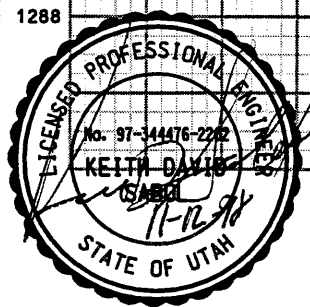
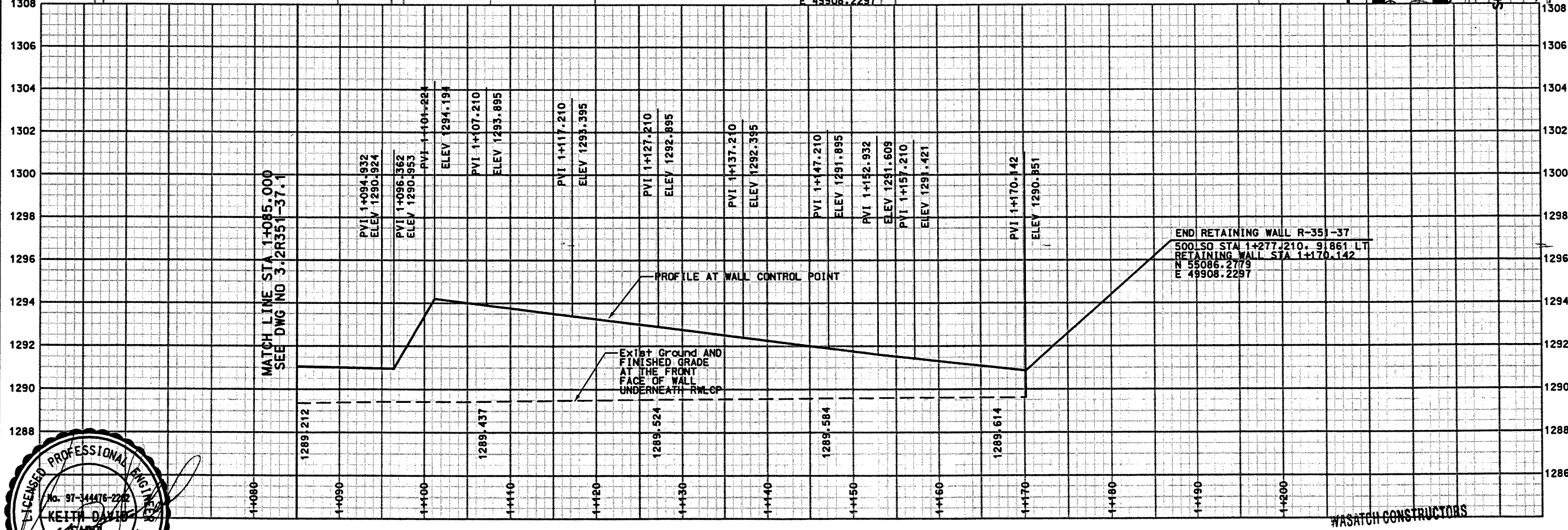
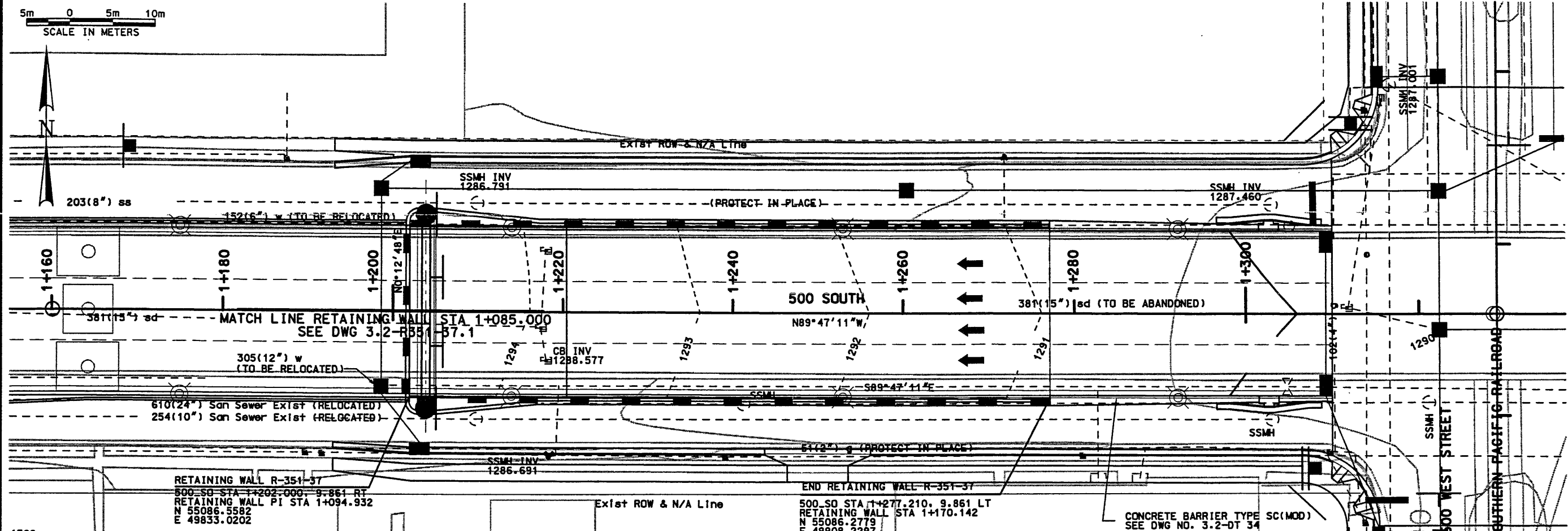
WALL R-351-37
VIEW IS FRONT FACE OF WALL

APPROVED FOR CONSTRUCTION		NO. DATE		DESCRIPTION	
APPROVED FOR CONSTRUCTION		11/11/98		RELEASE FOR CONSTRUCTION	
UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW		3212419	
I-15 CORRIDOR RECONSTRUCTION		DESIGN RT 11/11/98		CHECK MGC 11/11/98	
SITUATION & LAYOUT		RECON. DATE 11/11/98		PROJECT DESIGN ENGINEER MARVIN COOK	
SECTION 3.2		DRAWN SVD 11/11/98		CHECK RT 11/11/98	
PROJECT NUMBER #SP-15-7(135)296		APPROVED 11/11/98		DATE 11/11/98	
		DATE 11/11/98		SECTION MANAGER KEITH SABOL	
				QUANT.	
				CHECK	
SALT LAKE COUNTY					
DWC. NO.					
3.2-R351-37.1					
SHT. 1		OF 9			

WASATCH CONSTRUCTORS
NOV 16 1998
RELEASED FOR CONSTRUCTION

5m 0 5m 10m
SCALE IN METERS

Date: 10-NOV-1998 Time: 15:43 Username: cooking

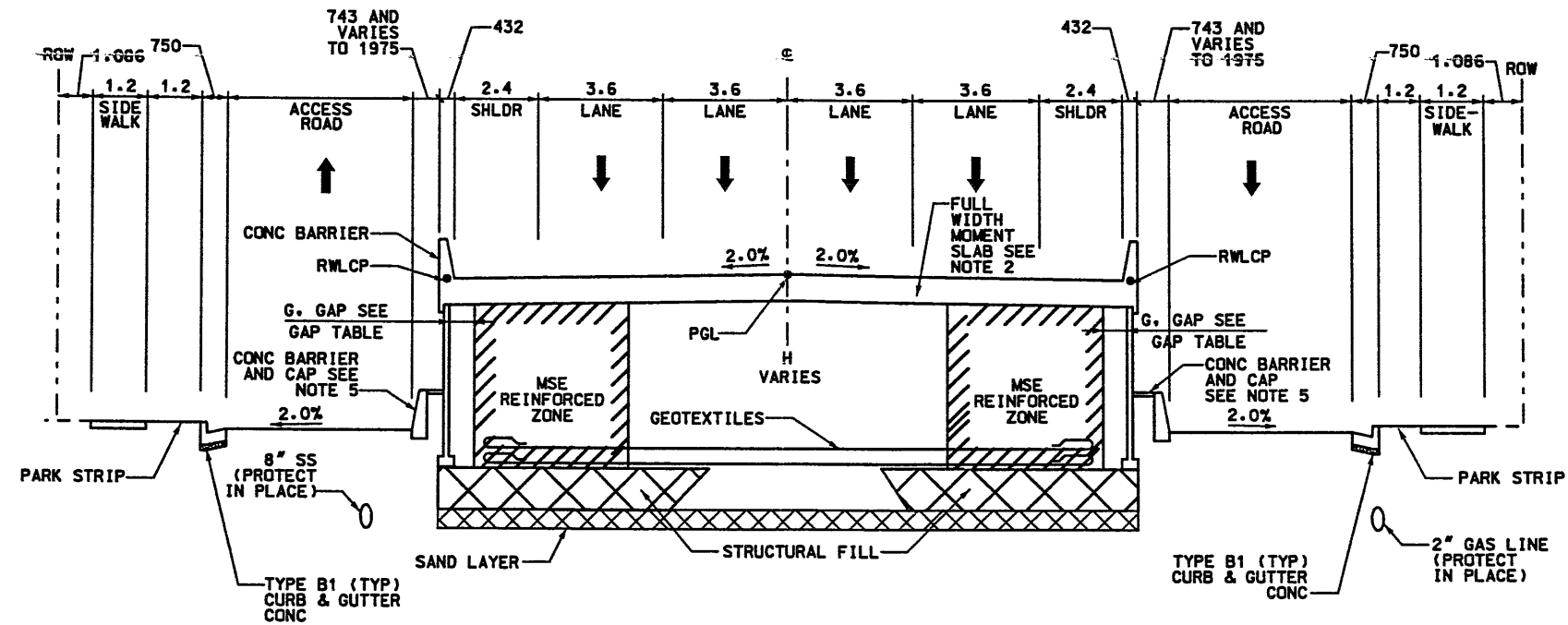


WALL R-351-37
VIEW IS FRONT FACE OF WALL

NOV 16 1998

RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
Δ	11/11/98		
RELEASE FOR CONSTRUCTION			
UTAH DEPARTMENT OF TRANSPORTATION			
SITATION & LAYOUT		SECTION 3.2	
PROJECT NUMBER #SP-15-(135)296		QUANT.	
DESIGNER: MARVIN COOK		CHECK MC 11/11/98	
DATE: 11/11/98		CHECK RT 11/11/98	
PROJECT DESIGN ENGINEER		CHECK RT 11/11/98	
APPROVED: KEITH SABOL		CHECK	
DATE: 11/11/98		SECTION MANAGER	
SECTION MANAGER		QUANT.	
SVERDRUP/DE LEUW		CHECK MC 11/11/98	
DESIGN RT 11/11/98		CHECK RT 11/11/98	
DRAWN SVD 11/11/98		CHECK	
PROJECT NUMBER		3212419	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-37.2	
SHT. 2 OF 9		RELEASED FOR CONSTRUCTION	



**TYPICAL SECTION
500 SOUTH STREET**

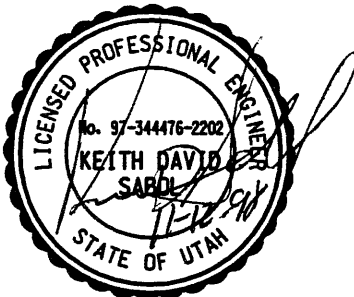
RETAINING WALL DETAILS

NTS

WALL R351-37
2 STAGE MSE
LOOKING EAST
(UP STATION)

GAP TABLE				
WALL	RETAINING WALL STA	G. (MM) SEE NOTE*	MAXIMUM EXPECTED LATERAL MOVEMENT (MM)	MINIMUM EXPECTED POST-CONSTRUCTION GAP (MM)
R-351-37	1+000.000	450	145	305
	1+069.201	550	245	305
	1+073.780	450	145	305
	1+096.362	450	145	305
	1+101.244	550	245	305
	1+170.142	450	145	305

NOTE*:
G = DISTANCE BETWEEN BACK OF WALL PANEL AND WIRE FACE AT INITIAL CONSTRUCTION TO ACCOMODATE 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
- FOR MOMENT SLAB AND COPING DETAILS SEE DWG NO 3.2-R351-37.4
- FOR COPING DETAIL AT BRIDGE ABUTMENT SEE BRIDGE PLANS
- FOR LOCAL ACCESS ROAD DETAILS SEE ROADWAY PLAN SHEET 3.2-RD17
- FOR CONC BARRIER AND CAP DETAILS SEE DWG NO 3.2-R351-37.4

WASATCH CONSTRUCTORS

NOV 16 1998

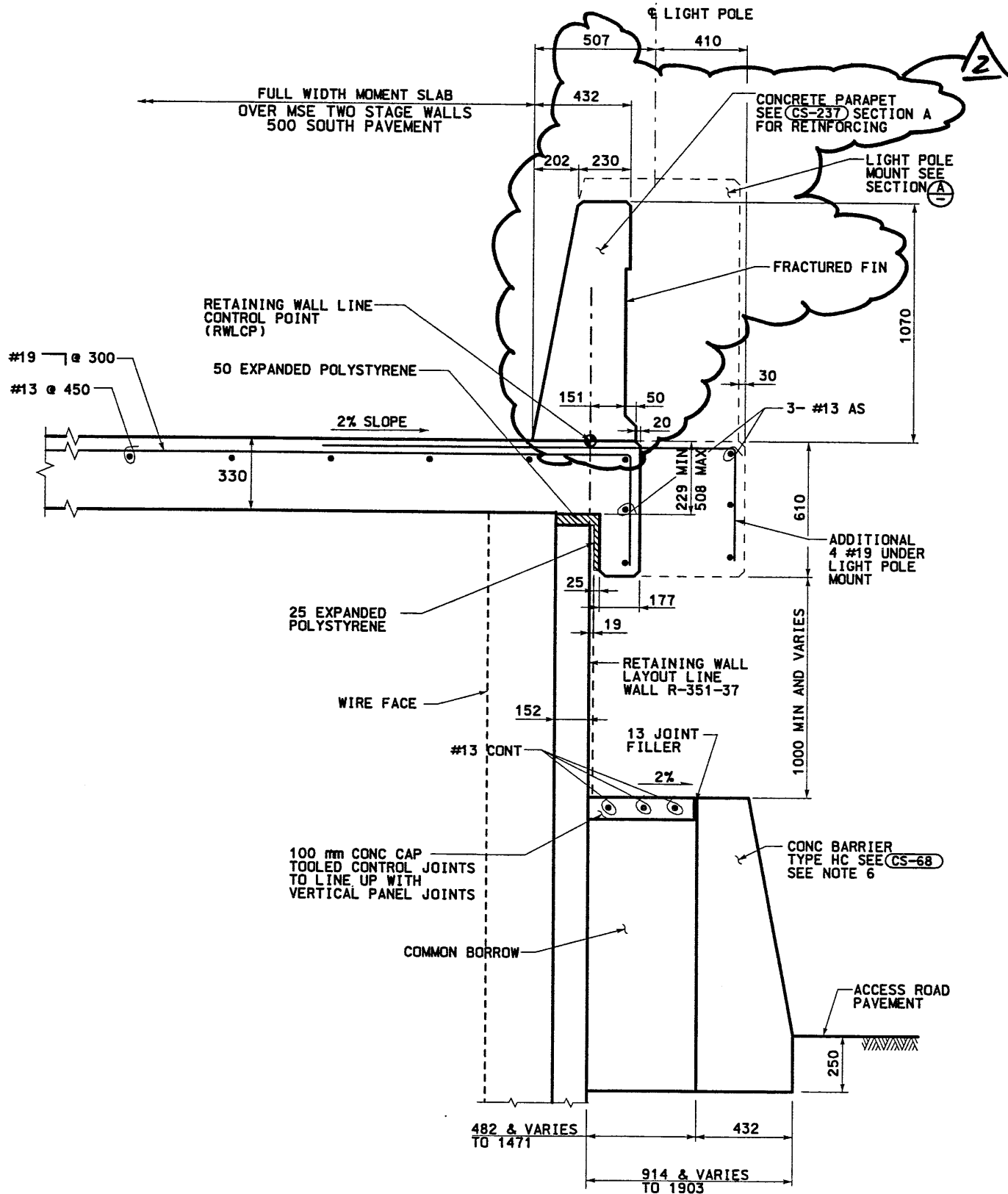
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION
NO. DATE
11/11/98

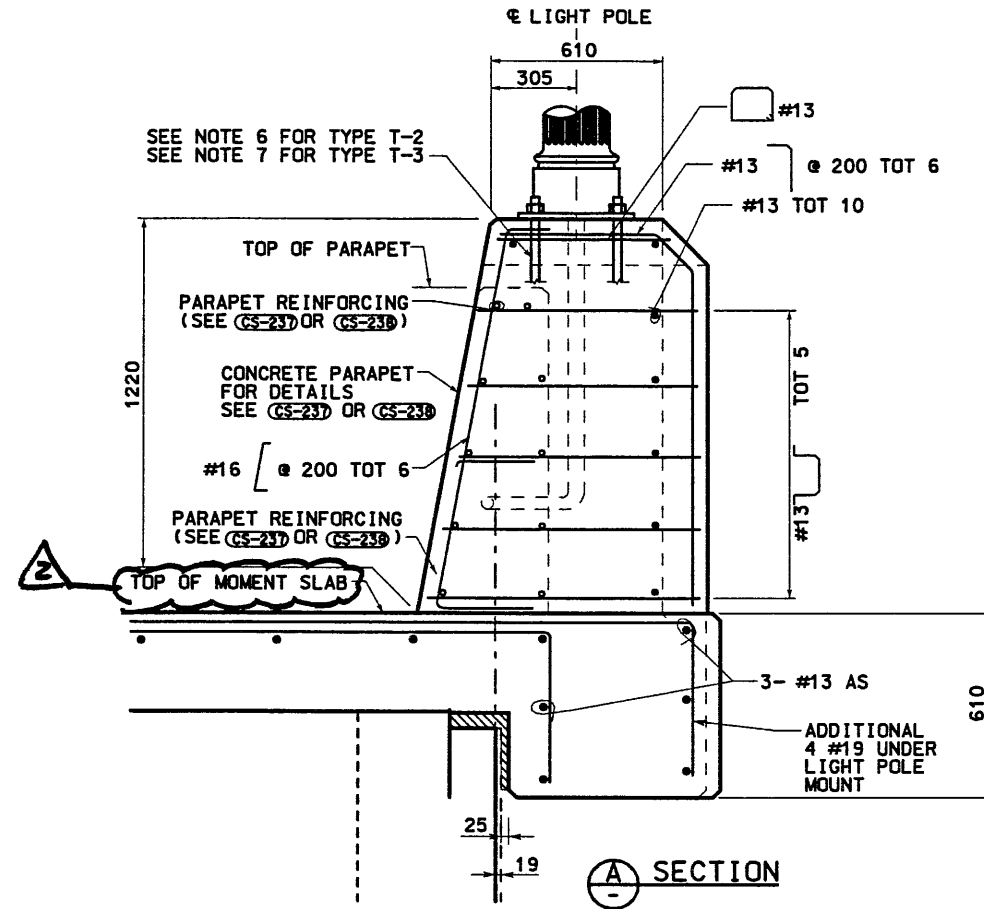
UTAH DEPARTMENT OF TRANSPORTATION
SVERDRUP/DE LEUW

DESIGN RT 11/11/98 CHECK MC 11/11/98
DRAWN SVD 11/11/98 CHECK RT 11/11/98
QUANT. 3212419
PROJECT DESIGN ENGINEER MARVIN COOK
SECTION MANAGER KEITH SABOL

I-15 CORRIDOR RECONSTRUCTION
TYPICAL SECTION
SECTION 3.2
PROJECT NUMBER #SP-15-7(135)296
SALT LAKE COUNTY
DWG. NO. 3.2-R351-37.3
SHT. 3 OF 9



MSE TWO STAGE WITH LIGHT POLE MOUNT & BARRIER ON MOMENT SLAB
WALL R-351-37
 NTS

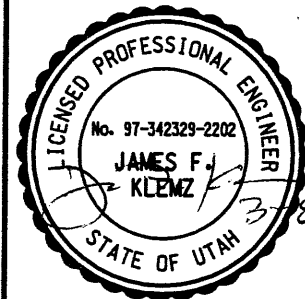


LIGHT POLE MOUNT

WASATCH CONSTRUCTORS
 MAR 3 1 1999
 RELEASED FOR CONSTRUCTION

NOTES:

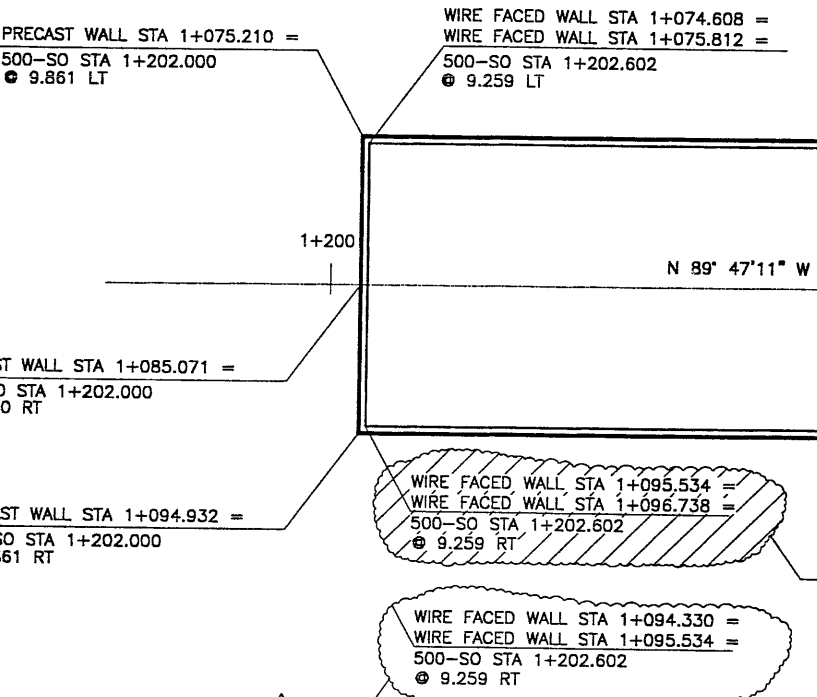
- 50mm MINIMUM COVER OVER REINFORCING.
- USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING.
- FOR BEGINNING STATIONING AND TAPER LAYOUT SEE DWG NO. 3.2-DT30 AND 3.2-DT34.
- TYPE T-2 LIGHT IS UNION METAL DRAWING NO. N807-20-SPL WITH LUMINAIRE DRAWING NO. NL318R-3-A1. ALSO SEE SALT LAKE CITY DRAWING DATED 5/27/98 DESIGNED BY HEATH ENGINEERING COMPANY AND POLE SUPPLIER / MANUFACTURER'S STANDARD DRAWING / SKETCH NO 051498-A1.
- TYPE T-3 LIGHT IS UDOT STANDARD DRAWING NO. 755-1 & 755-2.



APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	11/13/98	RELEASE FOR CONSTRUCTION
2	03/05/99		REVISED CONCRETE BARRIER PER SLC COMMENT
UTAH DEPARTMENT OF TRANSPORTATION		SVDRUP/DE LEUW	
I-15 CORRIDOR RECONSTRUCTION		SECTION 3.2	
TYPICAL SECTION		PROJECT NUMBER *SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-37.4	
SHT. 4		OF 9	

FINAL PLOT 01-24-00 H:\RE_EARTH\PROJECT\239-0007\1998\6 L:\6S-37\RE-1.DWG XI ICE (X-UTAH.DWG)

NOTE:
 BACKFILL THE WALL GAP TO AN ELEVATION EQUAL TO 1.5m ABOVE FINISHED GRADE DUE TO THE POTENTIAL FOR TRAFFIC IMPACT ON THE PRECAST WALL PANELS FROM THE ADJACENT ROADWAY. SEE VSL STANDARD DRAWING STD-20 FOR ADDITIONAL DETAILS.



PRECAST WALL STA 1+000.000 =
 500-SO STA 1+277.210
 ⊙ 9.861 LT
 BEGIN PRECAST WALL R-351-37

WIRE FACED WALL STA 1+000.000 =
 500-SO STA 1+277.210
 ⊙ 9.259 LT
 BEGIN WIRE FACED WALL R-351-37

WIRE FACED WALL STA 1+170.142 =
 500-SO STA 1+277.210
 ⊙ 9.259 RT
 END WIRE FACED WALL R-351-37

PRECAST WALL STA 1+170.142 =
 500-SO STA 1+277.210
 ⊙ 9.861 RT
 END PRECAST WALL R-351-37

PLAN VIEW MSE WALL "R-351-37"
 SCALE: 1:250 (FULL SIZE)
 SCALE: 1:500 (HALF SIZE)

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 COFF. =	0.27g (TYP)
SEISMIC ACCELERATION COFF. =	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

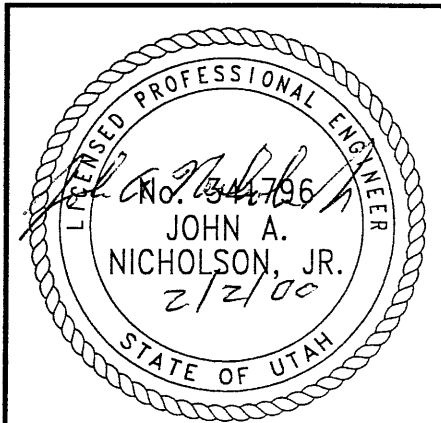
2ND STAGE DESIGN
 BASED ON POST SETTLEMENT SURVEY OF WIRE FACE, LATERAL OUT WARD DISPLACEMENTS RANGED FROM -46mm TO 133mm MEASURED AT THE BASE OF THE WALL

NOTE:
 THE WALL CONNECTIONS ON WALL 351-37 MAY BE ROTATED A MAXIMUM OF 42° VERTICALLY (COL 23-35) AND 55° VERTICALLY (COL 1-22 AND COL 36-56). SEE DETAIL "SECTION ROTATED" ON VSL STANDARD DRAWING NO. 18 FOR MORE INFORMATION.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY
△	01-24-00	RELEASE FOR 2ND. STAGE CONST. <i>[Signature]</i>

WASATCH CONSTRUCTORS
FEB 28 2000
 RELEASED FOR CONSTRUCTION

RETAINED EARTH INDEX	
RE-1	PLAN MSE WALL R-351-37, NOTES & DESIGN CRITERIA
RE-2	TYPICAL CROSS SECTION
RE-3	WIRE FACED WALL R-351-37
RE-4	WIRE FACED WALL R-351-37
RE-5	WIRE FACED WALL R-351-37
RE-6	PRECAST WALL R-351-37
RE-7	PRECAST WALL R-351-37
RE-8	PRECAST WALL R-351-37
RE-9	SPECIAL PANEL DETAILS
RE-10	SPECIAL PANEL DETAILS
RE-11	SPECIAL PANEL DETAILS
RE-12	SPECIAL PANEL DETAILS



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

NO.	DATE	REVISION	CHK

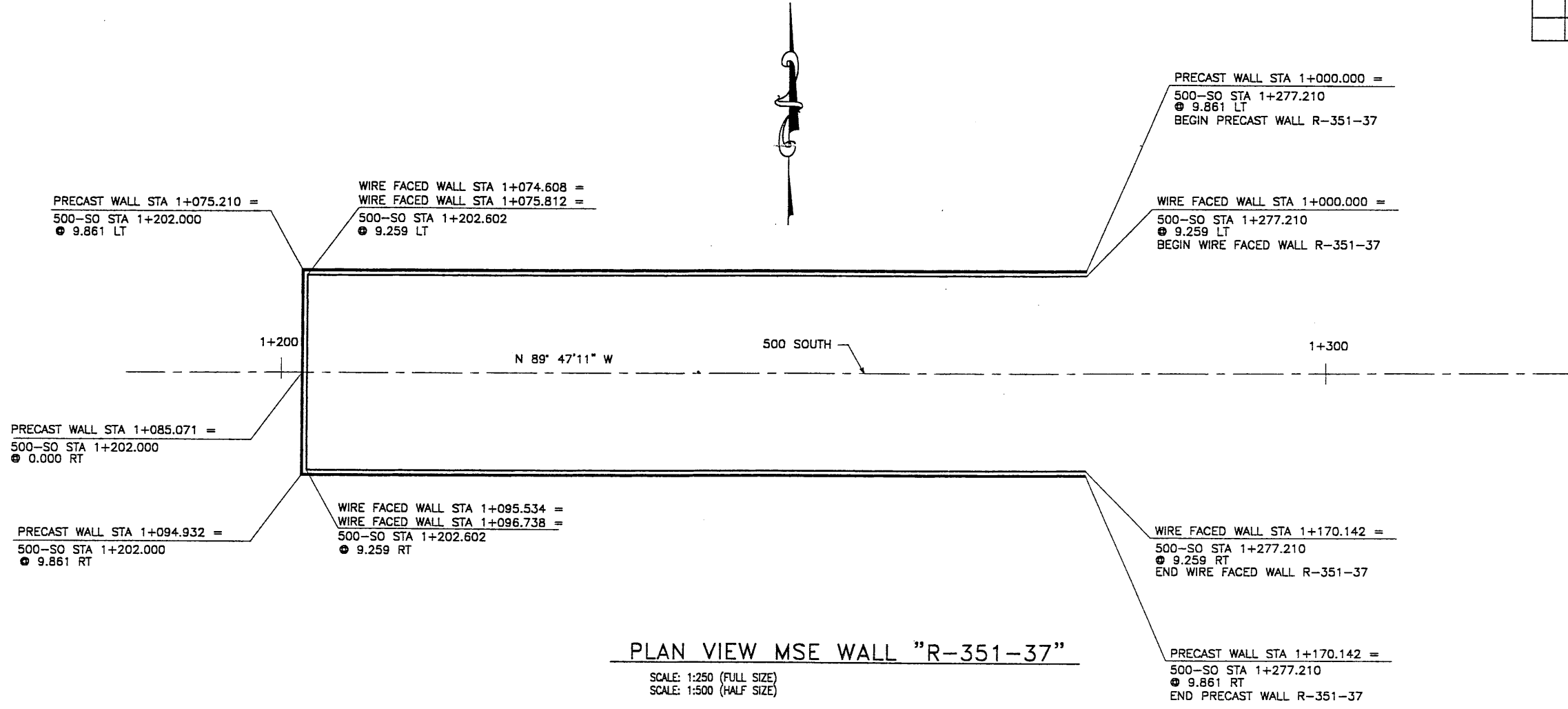
DES.	08-28-98	MM
DRN.	08-28-98	RSW
CHK.	08-28-98	MM

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8272
 Fax: (919) 781-4889

ALABAMA, CA / OREGON, TX / RALEIGH, NC (CORPORATE OFFICE)
 MAINT. / FL / SAN JOSE, CA / SPRINGFIELD, VA

RFC After Final Approval

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY



PLAN VIEW MSE WALL "R-351-37"

SCALE: 1:250 (FULL SIZE)
SCALE: 1:500 (HALF SIZE)

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 COFF.	= 0.27g (TYP)
SEISMIC ACCELERATION COFF.	= 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-351-37, NOTES & DESIGN CRITERIA
RE-2	TYPICAL CROSS SECTION
RE-3	WIRE FACED WALL R-351-37
RE-4	WIRE FACED WALL R-351-37
RE-5	WIRE FACED WALL R-351-37

WASATCH CONSTRUCTORS

NOV 16 1998

RELEASED FOR CONSTRUCTION

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

DES.	08-28-98	MM
DWN.	08-28-98	RSW
CHK.	08-28-98	MM

RETAINED EARTH™

VSL CORPORATION
2410 Park Plaza, Suite 200
Raleigh, NC 27617
Telephone: (919) 781-8272
Fax: (919) 781-4969

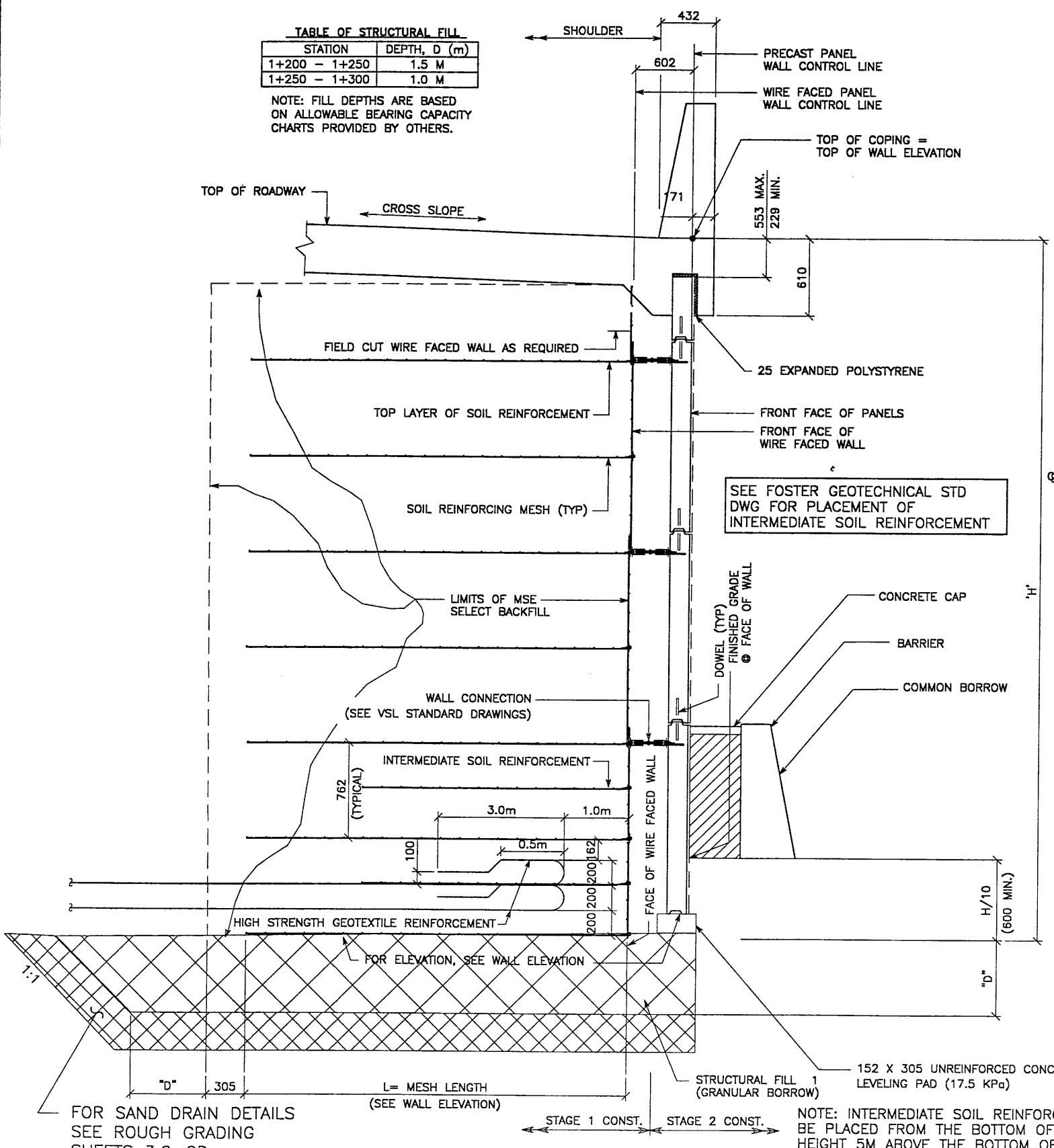
VSL
ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE)
MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

RETAINED EARTH™ WALLS
PLAN VIEW MSE WALL "R-351-37"
UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2-R351-37.5
JOB NO.	239-0007
SHT. NO.	RE-1

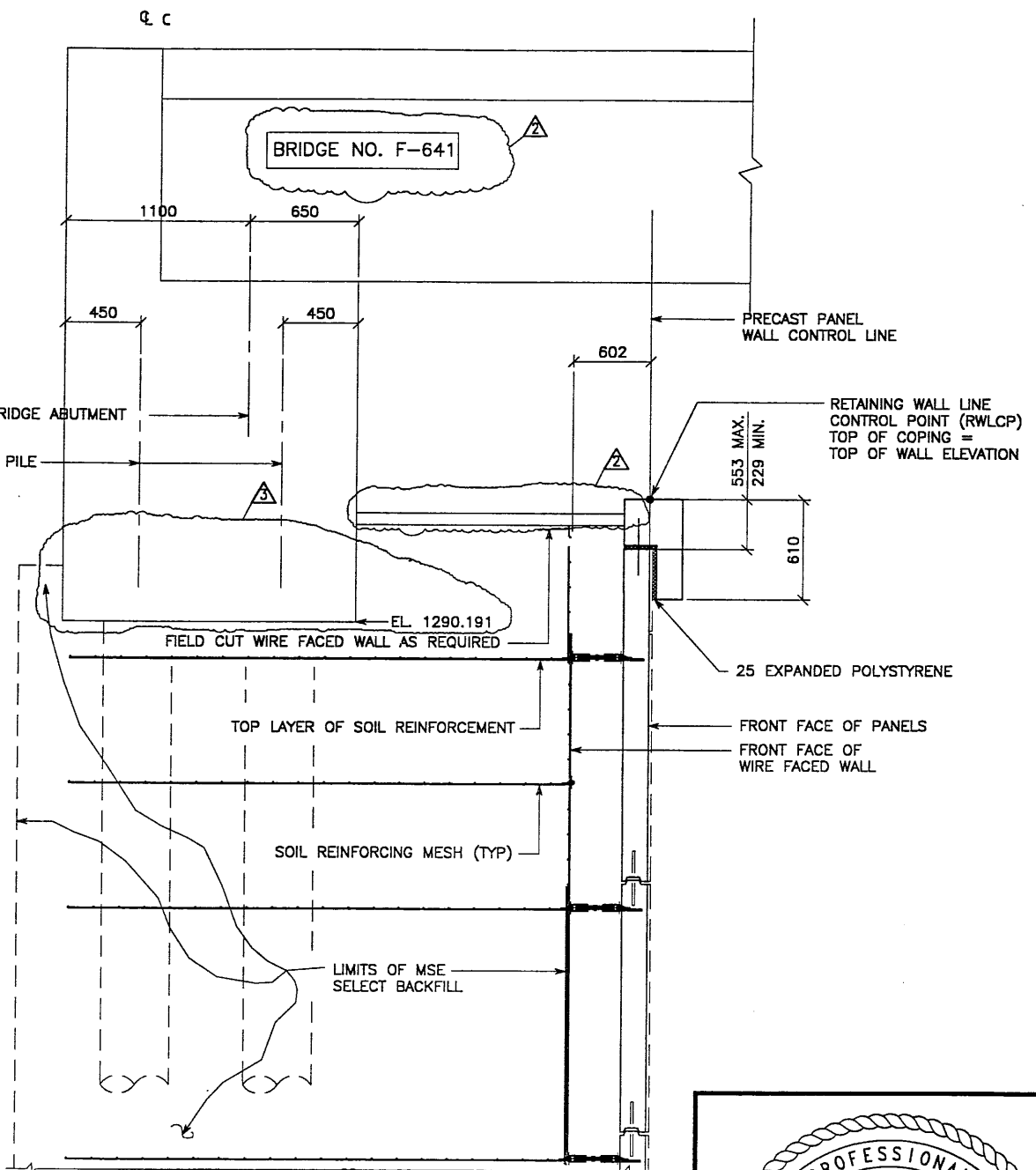
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STATION	DEPTH, D (m)
1+200 - 1+250	1.5 M
1+250 - 1+300	1.0 M

NOTE: FILL DEPTHS ARE BASED ON ALLOWABLE BEARING CAPACITY CHARTS PROVIDED BY OTHERS.



TYPICAL CROSS SECTION - STA 1+000.000 TO STA 1+069.201
 STA 1+101.224 TO STA 1+170.142
 (SEE DWG. NO. 3.2R-351-37.3 FOR ADDITIONAL INFORMATION)
 SCALE: 1:20 (FULL SIZE)

NOTE: INTERMEDIATE SOIL REINFORCEMENT SHALL BE PLACED FROM THE BOTTOM OF WALL TO A HEIGHT 5M ABOVE THE BOTTOM OF WALL. IF THE WALL IS LESS THAN 5M TALL, PLACE THE INTERMEDIATE SOIL REINFORCEMENT FOR THE FULL HEIGHT OF WALL. SEE FOSTER GEOTECHNICAL STANDARD DRAWINGS FOR PLACEMENT DETAILS.



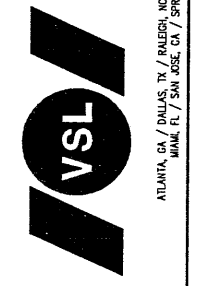
TYPICAL CROSS SECTION (STA 1+075.210 TO 1+094.932)
 (SEE DWG. NO. 3.2R-351-37.3 FOR ADDITIONAL INFORMATION)
 SCALE: 1:20 (FULL SIZE)
 SCALE: 1:40 (HALF SIZE)

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.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY
△	6-04-99	REMOVED SLOPE IN FRONT OF ABUT., ADDED BRG. NO., REVISED STATIONS
△	08-13-99	FINAL SUBMITTAL COMMENTS

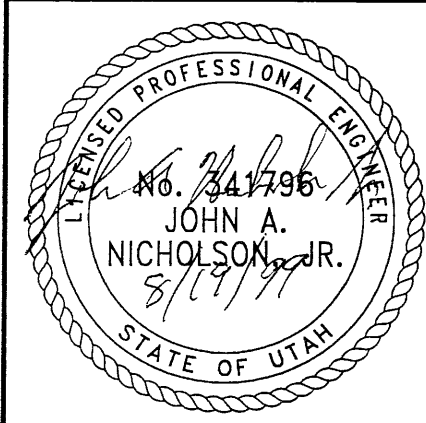
NO.	DATE	REVISION

VSL CORPORATION
 2940 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8272
 Fax: (919) 781-4989



VSL Corporation (VSL) does a strict proprietary design and construction of earth retaining walls. VSL's design and construction methods are based on the use of high strength concrete and steel reinforcement. VSL's design and construction methods are based on the use of high strength concrete and steel reinforcement. VSL's design and construction methods are based on the use of high strength concrete and steel reinforcement.

RETAINED EARTH™ WALLS
 WIRE FACED WALL "R-351-37"
 TYPICAL CROSS SECTION
 UTAH I-15 RECONSTRUCTION
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.



DWG. NO.	3.2-R351-37.6
JOB NO.	239-0007
SHT. NO.	RE-2

ENCE (X-UTAH.DWG)

H:\RE_EARTH\PROJEC\007\1998\6S-WALLS\6S-37\6S-37

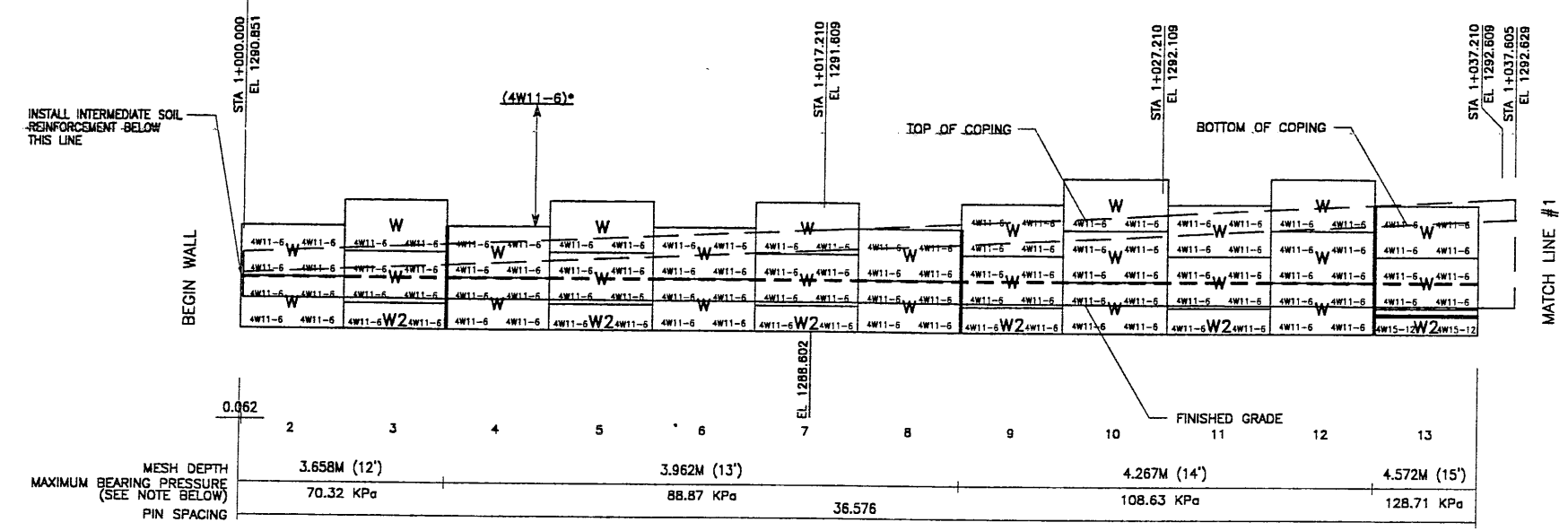
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UT 10-15-98

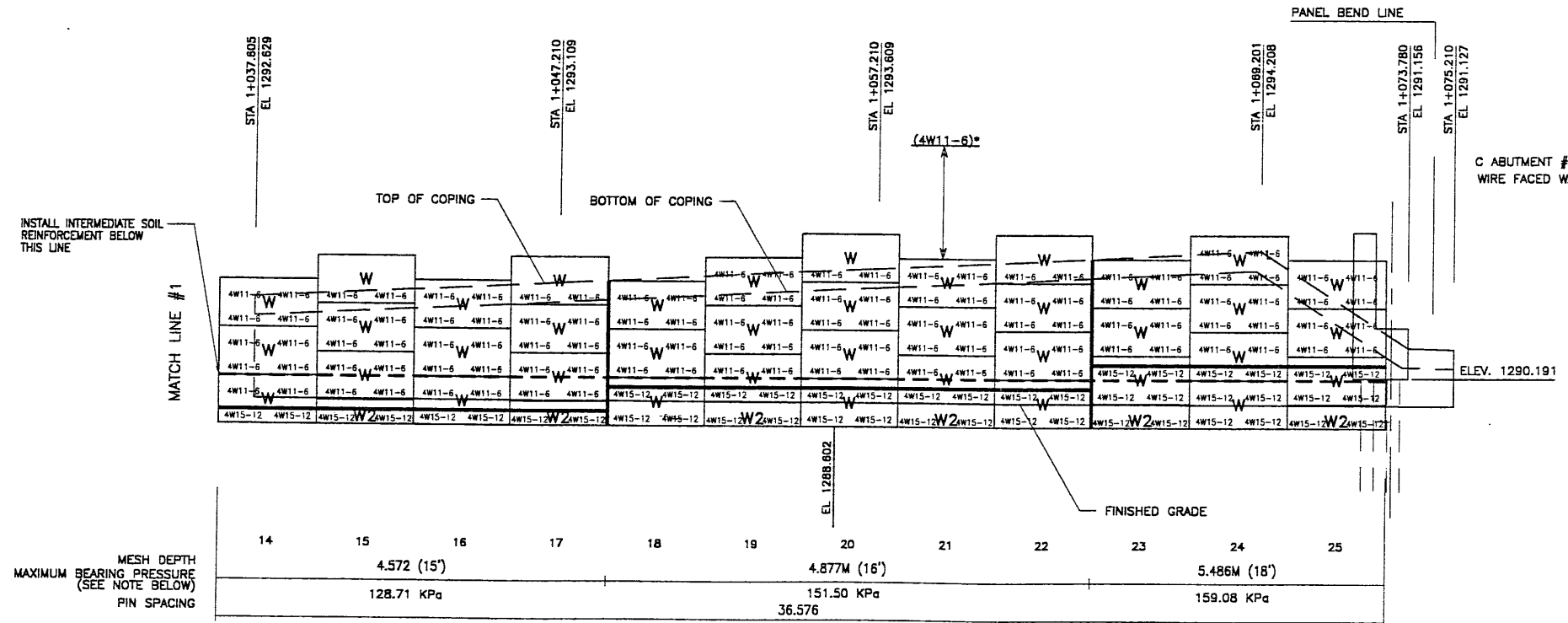
FINA

BEGIN WIRE FACED WALL R-351-37
WIRE FACED WALL STA 1+000.000 =
500-SO STA 1+277.210
9.259 LT

SURCHARGE VARIES FROM 3.0M AT STA 1+075.210 TO 1.5M AT STA 1+000.000



SURCHARGE VARIES FROM 3.0M AT STA 1+075.210 TO 1.5M AT STA 1+000.000



RETAINING WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL

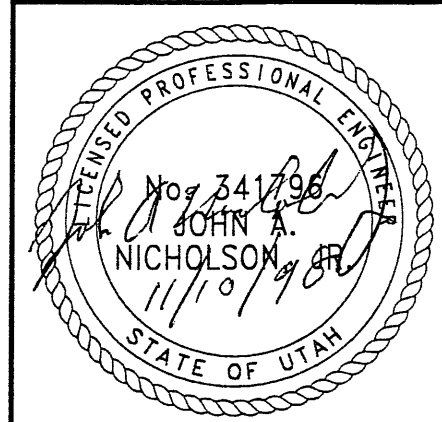
(TOTAL SURFACE AREA OF FACING = 732.24 SM) SCALE 1:100 (FULL SIZE)
SCALE 1:200 (HALF SIZE)

METRIC

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 FRONT FACE SHOWN)
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.



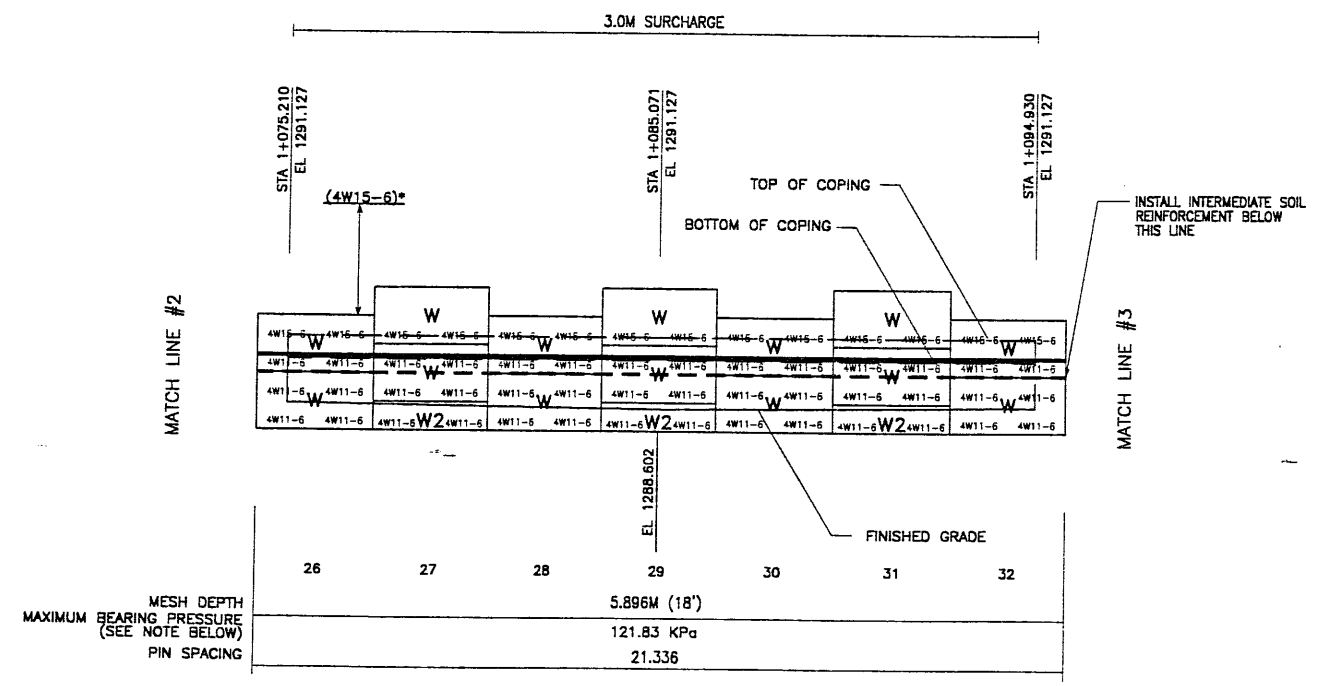
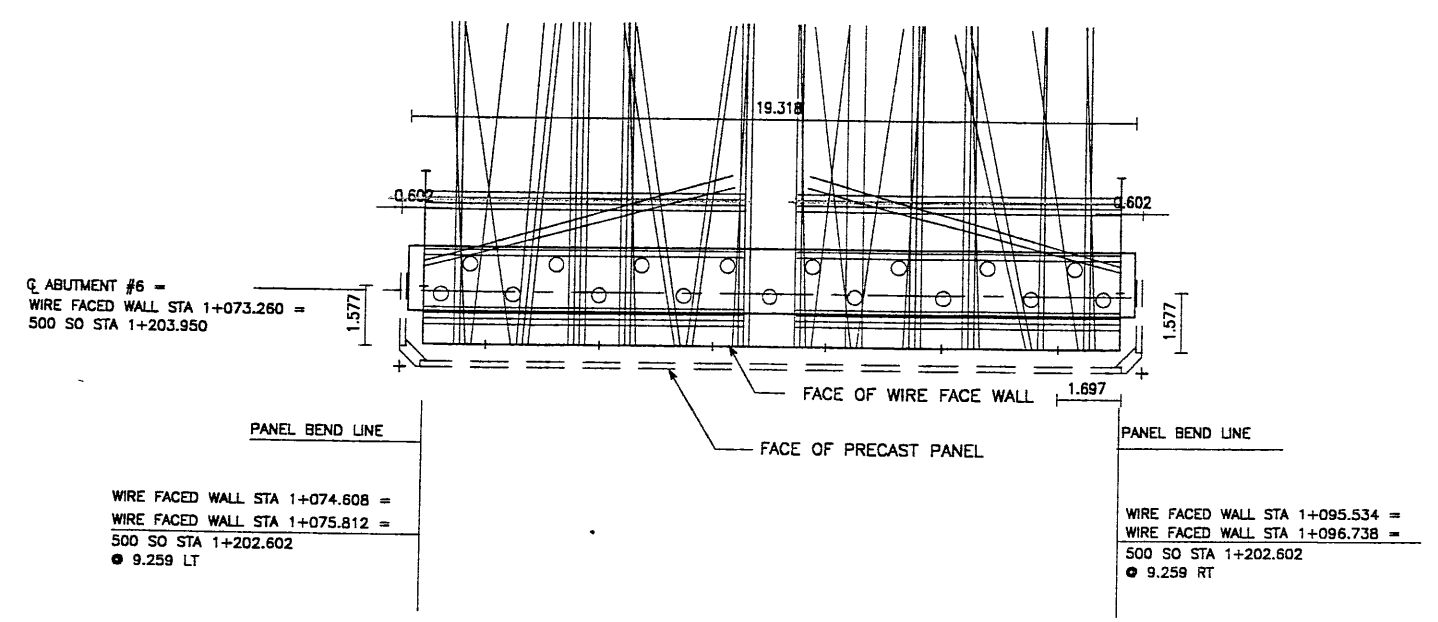
WASATCH CONSTRUCTORS
NOV 16 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY

DES.	10-15-98	JL	RETAINED EARTH™	NO.	DATE
DRN.	10-15-98	RSW			
CHK.	10-15-98	JL			
VSL CORPORATION 2840 Pines Place, Suite 200 Raleigh, NC 27612 Telephone: (919) 781-8272 Fax: (919) 781-4969 ALANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE) MAUM, IL / SAN JOSE, CA / SPRINGFIELD, VA					
RETAINED EARTH™ WALLS WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.					
DWG. NO. 3.2R-351-37.7					
JOB NO. 239-0007					
SHT. NO. RE-3					

NCE (X-UTAH.DWG)
 H:\RE_EARTH\PROJECT\007\1998\6S-WALLS\6S-37\6S-37
 T 10-15-98
 FINAL

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY



RETAINING WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL

(TOTAL SURFACE AREA OF FACING = 732.24 SM) SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

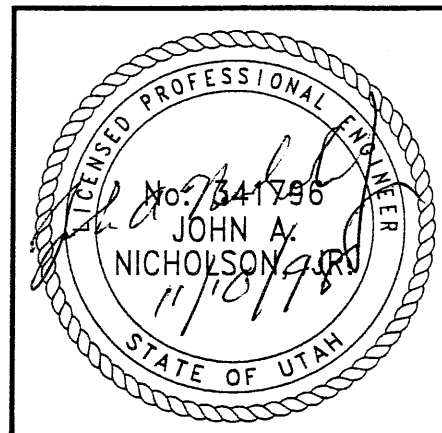
METRIC

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.

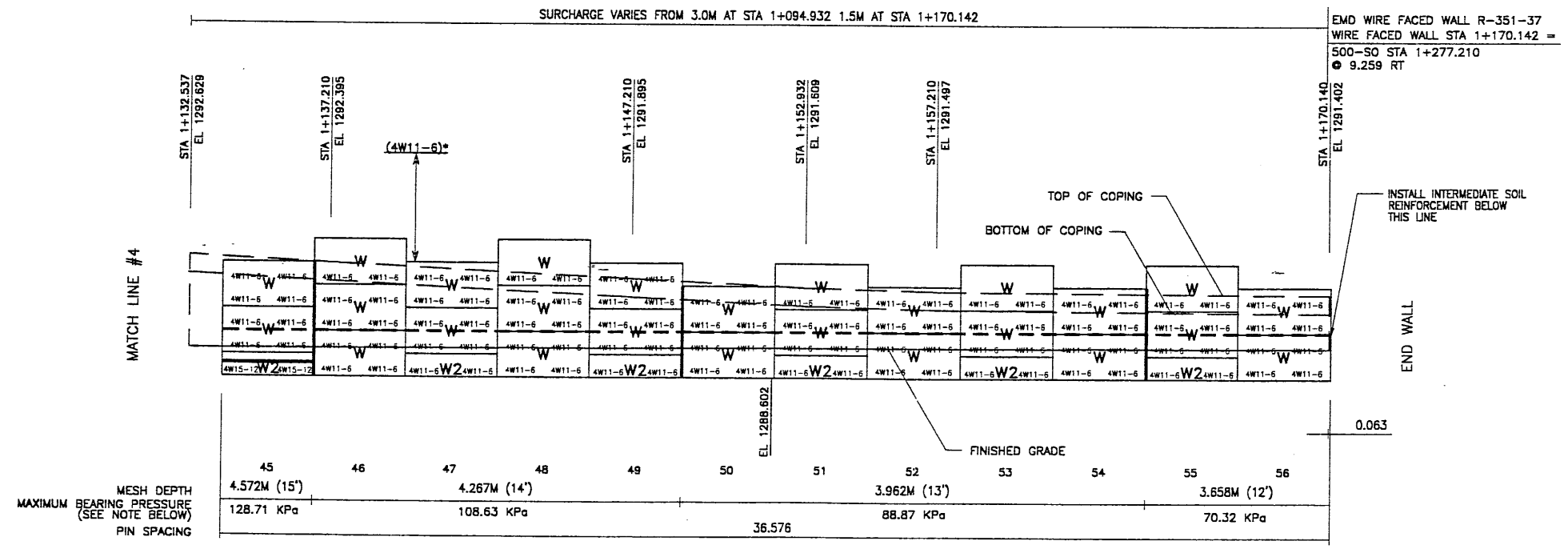
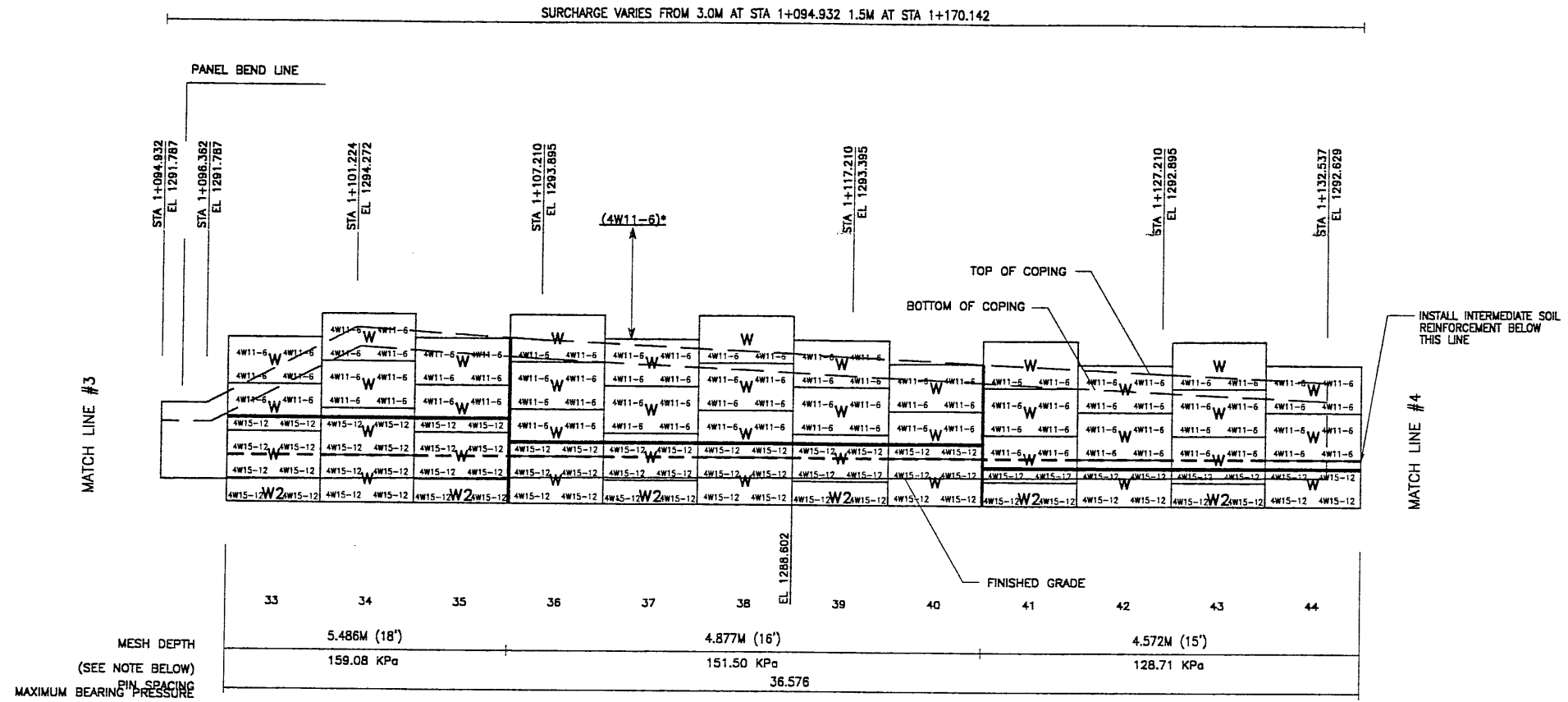
CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY.
 EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE
 STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
 ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
 OF CONSTRUCTION, AND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

WASATCH CONSTRUCTORS
NOV 16 1998
 RELEASED FOR CONSTRUCTION



 VSL CORPORATION 7940 Fonda Place, Suite 200 Raleigh, NC 27617 Phone: (919) 881 6372 Fax: (919) 881 6859		D/C.S. DRN. CLK.	10-15-98 JL 10-15-98 RSW 10-15-98 JL	RETAINED EARTH™ 	NO. DATE REVISION
RETAINED EARTH™ WALLS WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.		DWG. NO. 3.2R-351-37.8 JOB NO. 239-0007 SHT. NO. RE-4			

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	11-02-98	RELEASE FOR 1ST STAGE CONST. ONLY



RETAINING WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL

(TOTAL SURFACE AREA OF FACING = 732.24 SM)

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

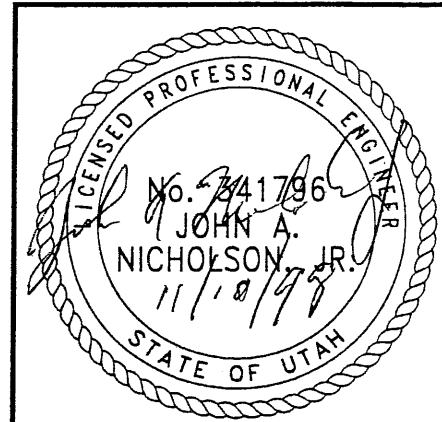
METRIC

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.

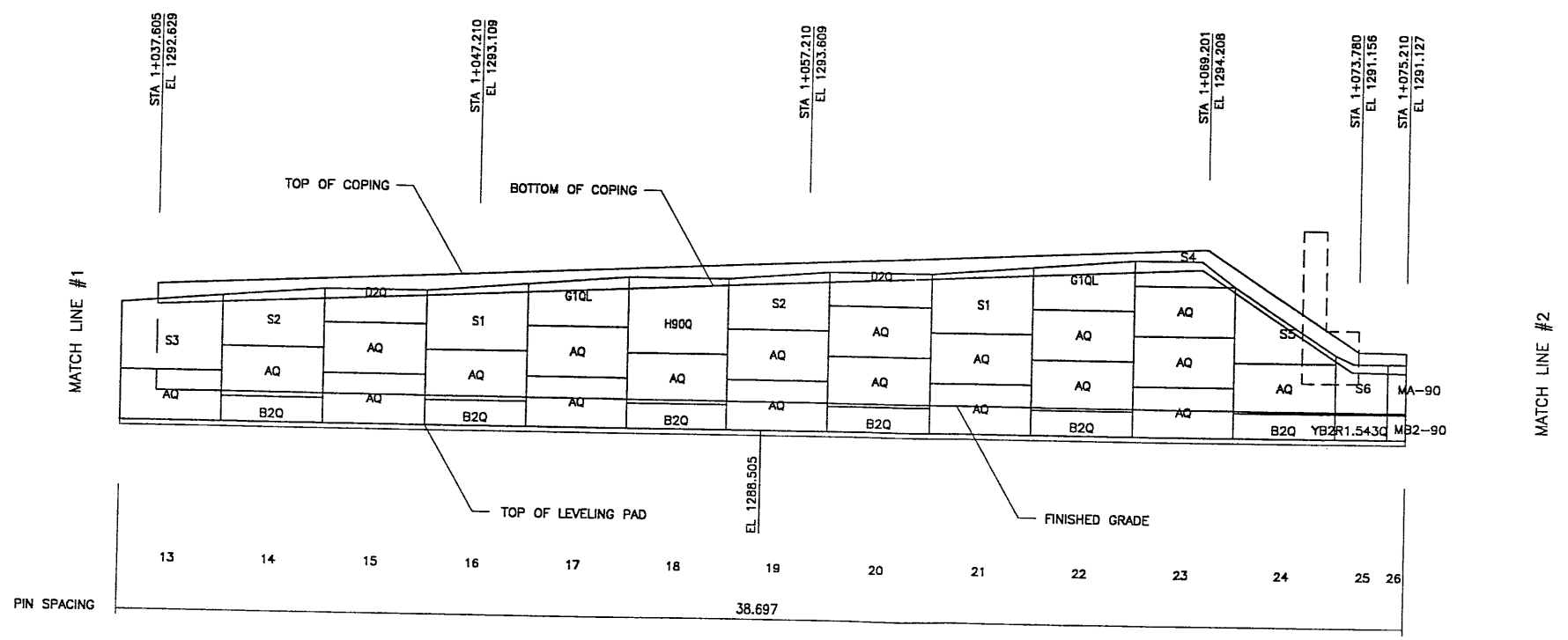
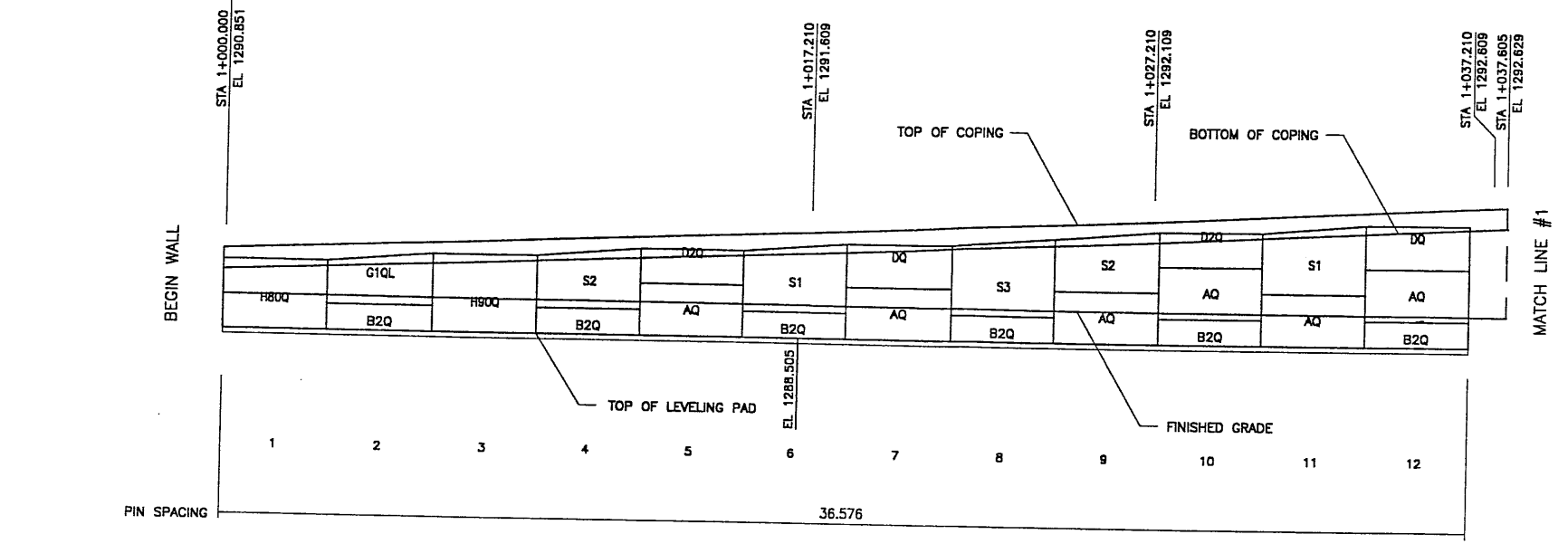
WASATCH CONSTRUCTORS
NOV 16 1998
RELEASED FOR CONSTRUCTION



NO.		DATE		DESCRIPTION	
DES.		JL	RSW	JL	REVISION
DRN.		JL	RSW	JL	NO.
CHK.		JL	RSW	JL	DATE
VSL CORPORATION		2840 Plaza Place, Suite 200		Raleigh, NC 27617	
Telephone: (919) 781-8772		Fax: (919) 781-4969		ATLANTA, GA / DALLAS, TX / FALCON, NC (CORPORATE OFFICE)	
MADE IN U.S.A.		SAN JOSE, CA / SPRINGFIELD, VA		REVISION	
RETAINED EARTH™ WALLS		UTAH 1-15 INTERCHANGE		NO.	
WALL "R-351-37" - 1ST STAGE: WIRE FACED WALL		SALT LAKE COUNTY, UTAH		DATE	
UTAH DEPARTMENT OF TRANSP.		DWG. NO.		3.2R-351-37.9	
JOB NO.		239-0007		SHT. NO.	
RE-5		9 of 9			

FINAL P' 01-24-00 H:\RE_EARTH\PROJECT\ 1007\1998\6S-WALLS\6S-37\6S-37 XREF: ICE (X-UTAH.DWG)

BEGIN PRECAST WALL R-351-37
 PRECAST FACED WALL STA 1+000.000 =
 500-SO STA 1+277.210
 ● 9.861 LT

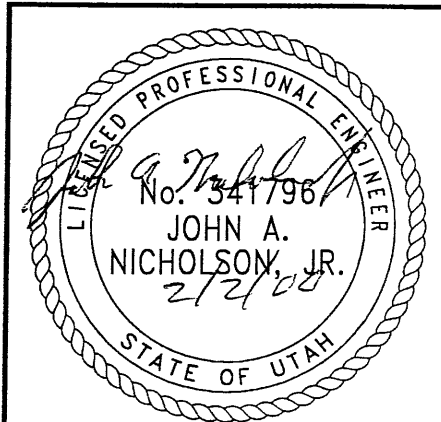


RETAINING WALL "R-351-37" - 2ND STAGE: PRECAST WALL

(TOTAL SURFACE AREA OF FACING = 571.85 SM) SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

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WASATCH CONSTRUCTORS
 FEB 28 2000
 RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	01-24-00	RELEASE FOR 2ND STAGE CONSTRUCTION

NO.		DATE		DESCRIPTION		BY		CHK	

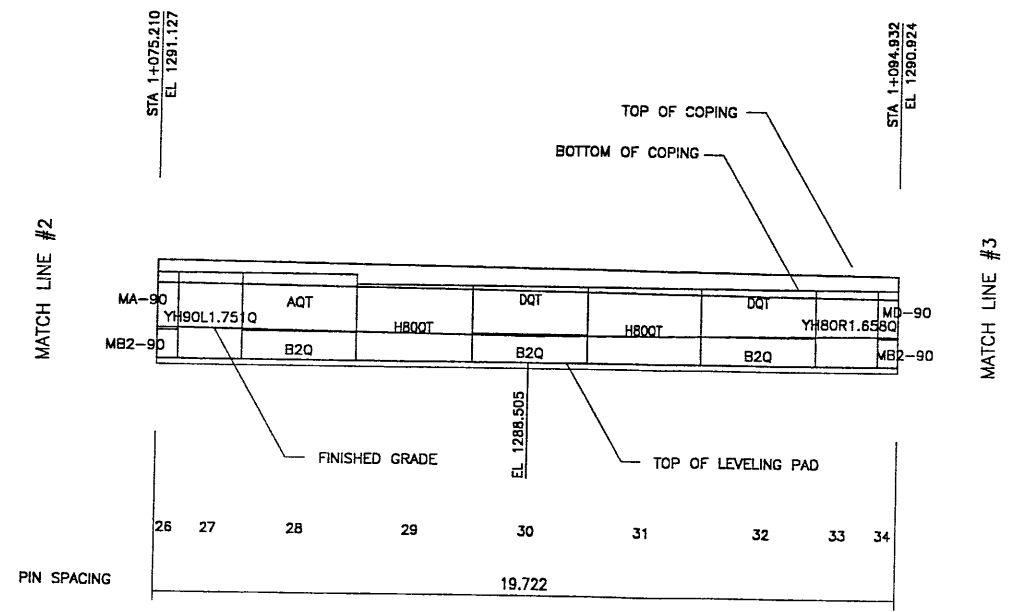
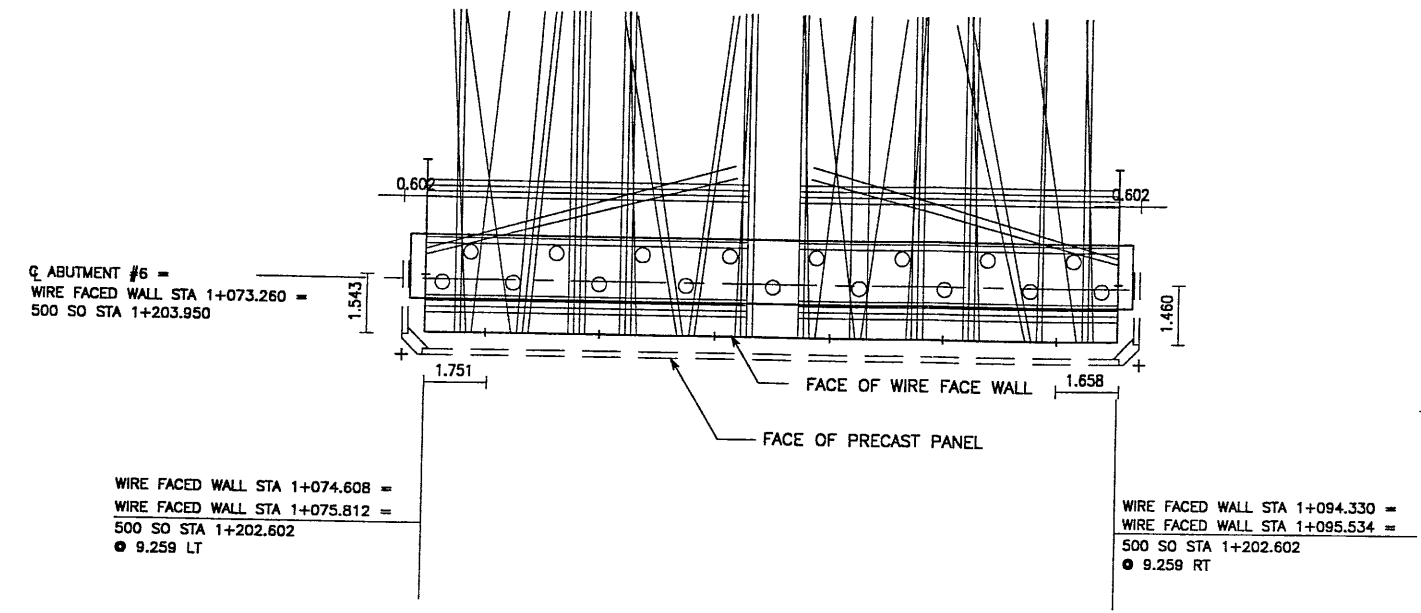
DES.	DRN.	CHK.	NO.	DATE	REVISION
JL	RSW	JL			

VSL CORPORATION 7840 Pine Bluffs, Suite 200 Raleigh, NC 27615 Telephone: (919) 781-6272 Fax: (919) 781-4868	
ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE) MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA	

RETAINED EARTH™ WALLS WALL "R-351-37" - 2ND. STAGE: PRECAST WALL	UTAH 1-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.
DWG. NO. 3.2R-351-37.10	
JOB NO. 239-0007	
SHT. NO. RE-6	

RFC After Final Approval

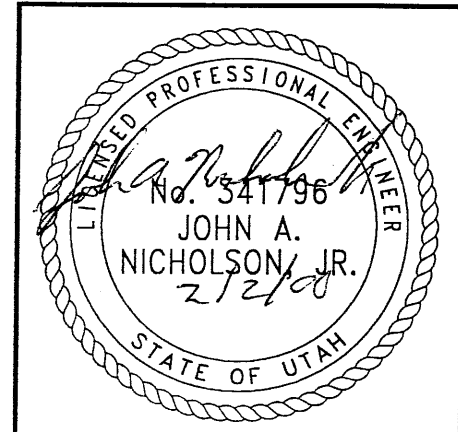
APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-24-00	RELEASE FOR 2ND STAGE CONSTRUCTION



RETAINING WALL "R-351-37" - 2ND STAGE: PRECAST WALL
 (TOTAL SURFACE AREA OF FACING = 571.85 SM) SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

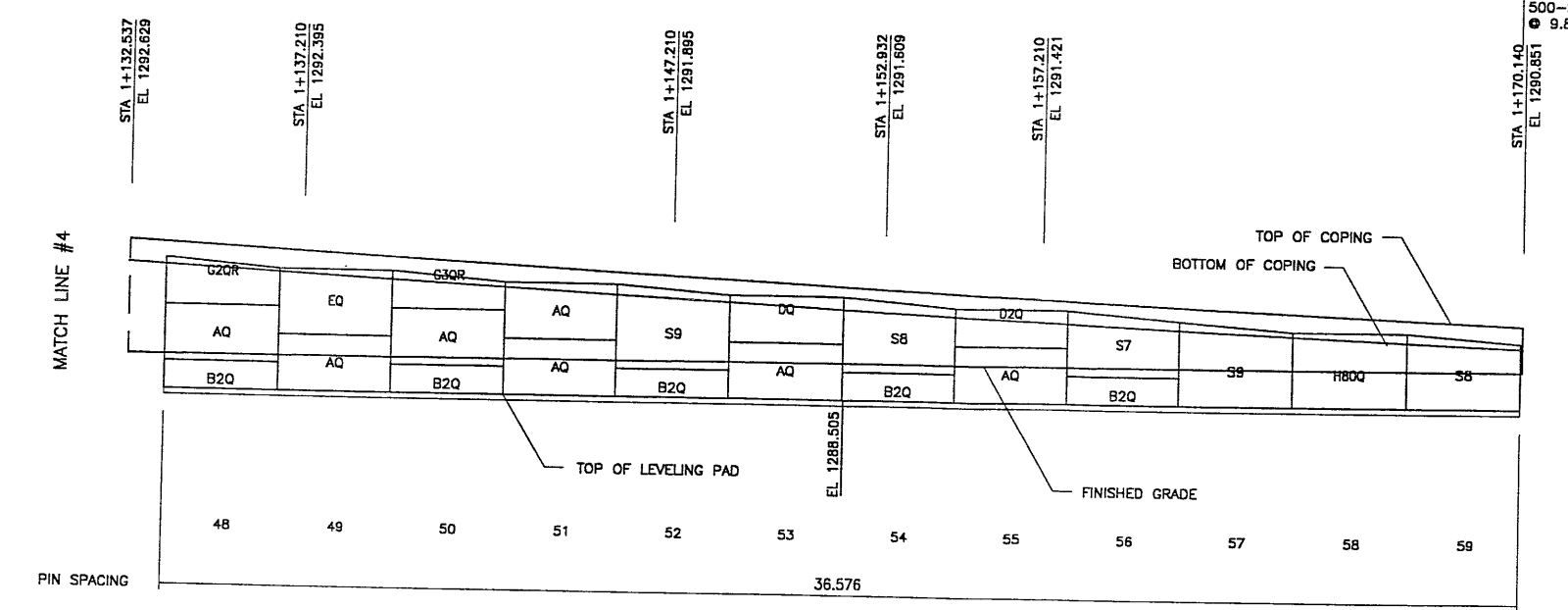
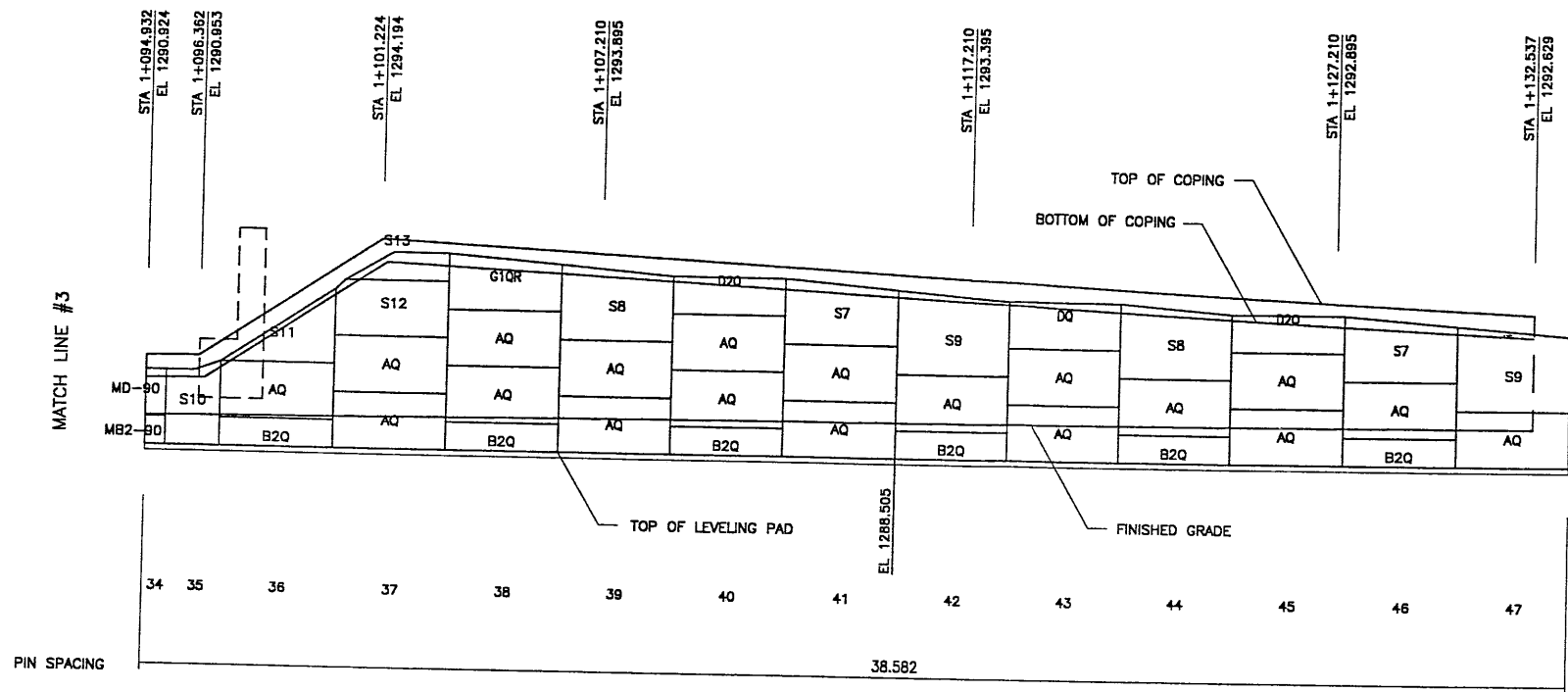
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WASATCH CONSTRUCTORS
 FEB 28 2000
 RELEASED FOR CONSTRUCTION

DES.	10-15-98	JL	RETAINED EARTH™
DRN.	10-15-98	RSW	
CHK.	10-15-98	JL	
VSL CORPORATION 2840 Plaza Place, Suite 200 Raleigh, NC 27612 Telephone: (919) 781-6272 Fax: (919) 781-6869			
ATLANTA, GA / DALLAS, TX / HALLOW, NC (CORPORATE OFFICE) MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA			
RETAINED EARTH™ WALLS WALL "R-351-37" - 2ND STAGE: PRECAST WALL UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.			
DWG. NO.			
3.2R-351-37.11			
JOB NO:			
239-0007			
SHT. NO.			
RE-7			

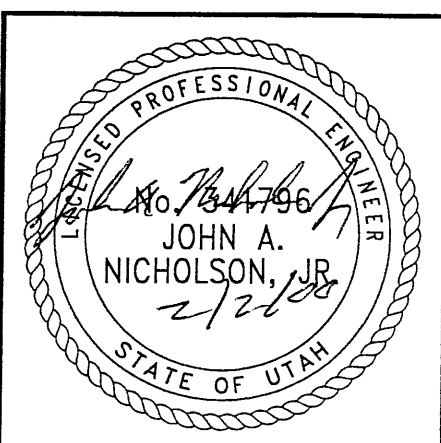
RFC After Final Approval



RETAINING WALL "R-351-37" - 2ND STAGE: PRECAST WALL
 (TOTAL SURFACE AREA OF FACING = 571.85 SM) SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

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METRIC



APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-24-00	RELEASE FOR 2ND STAGE CONSTRUCTION

DES.	NO.	DATE	REVISION	BY	CHK
JL	10-15-98				
RSW	10-15-98				
JL	10-15-98				

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

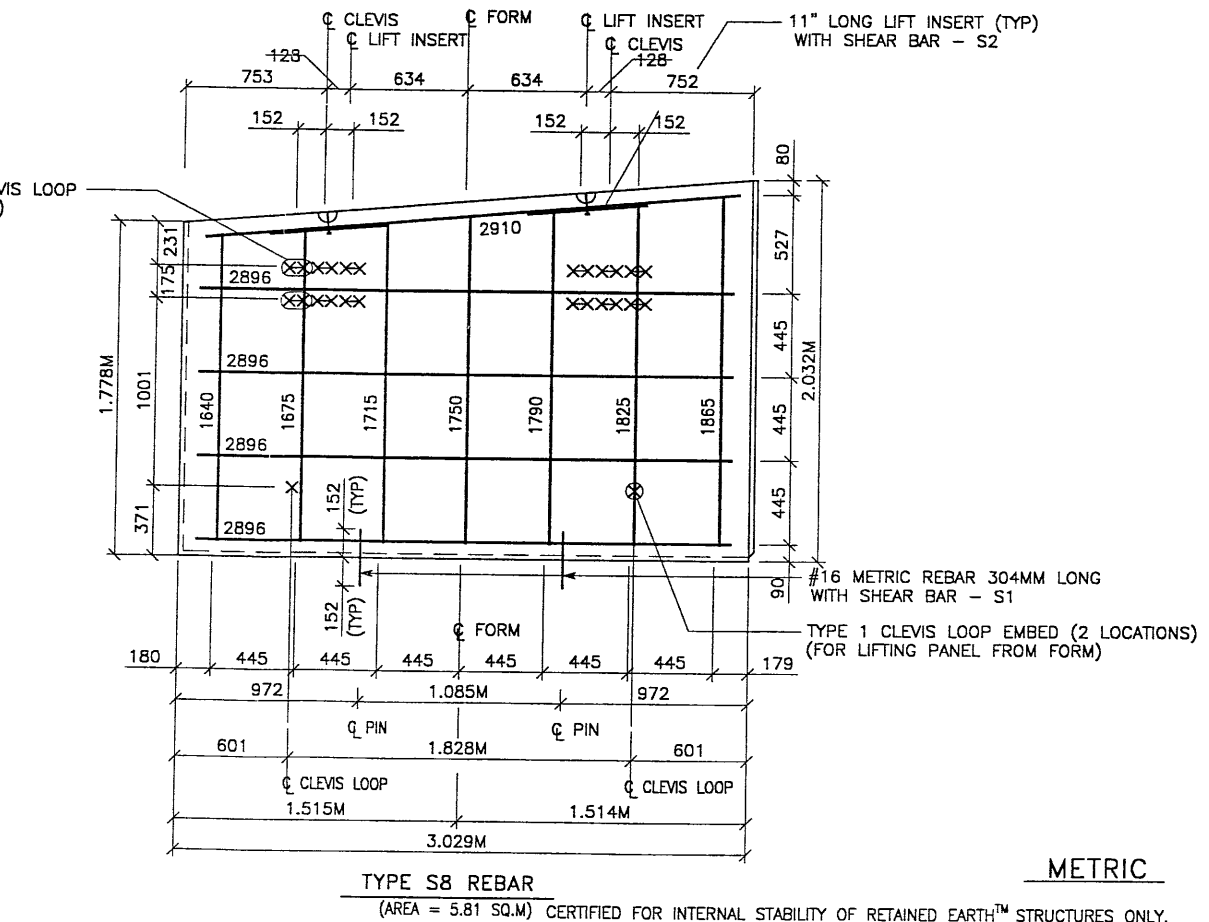
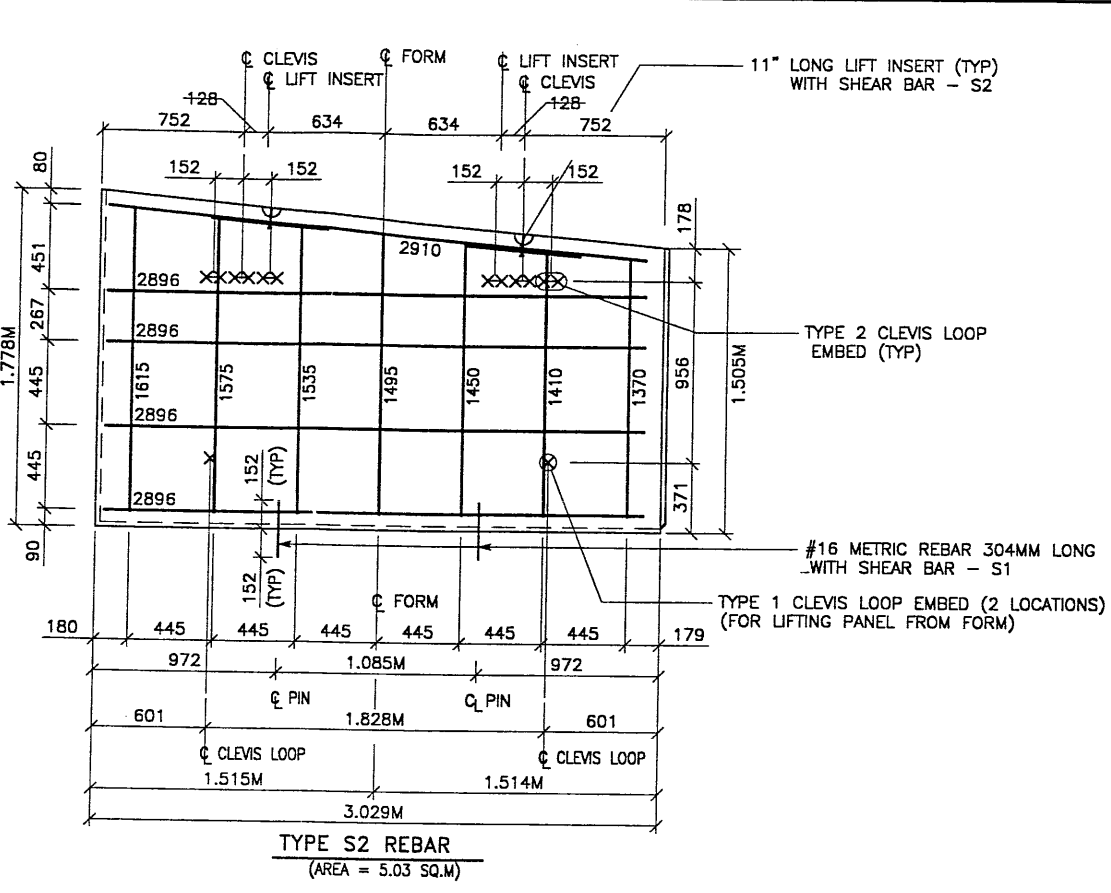
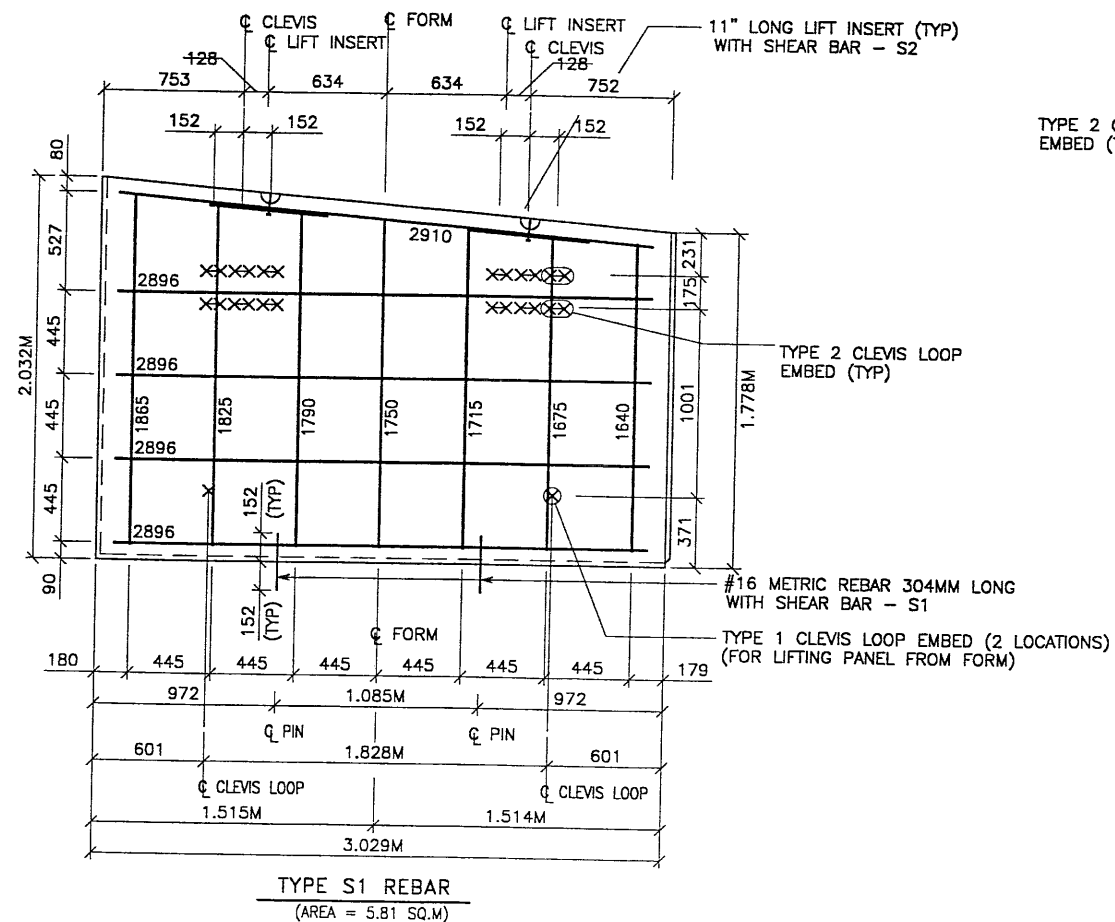
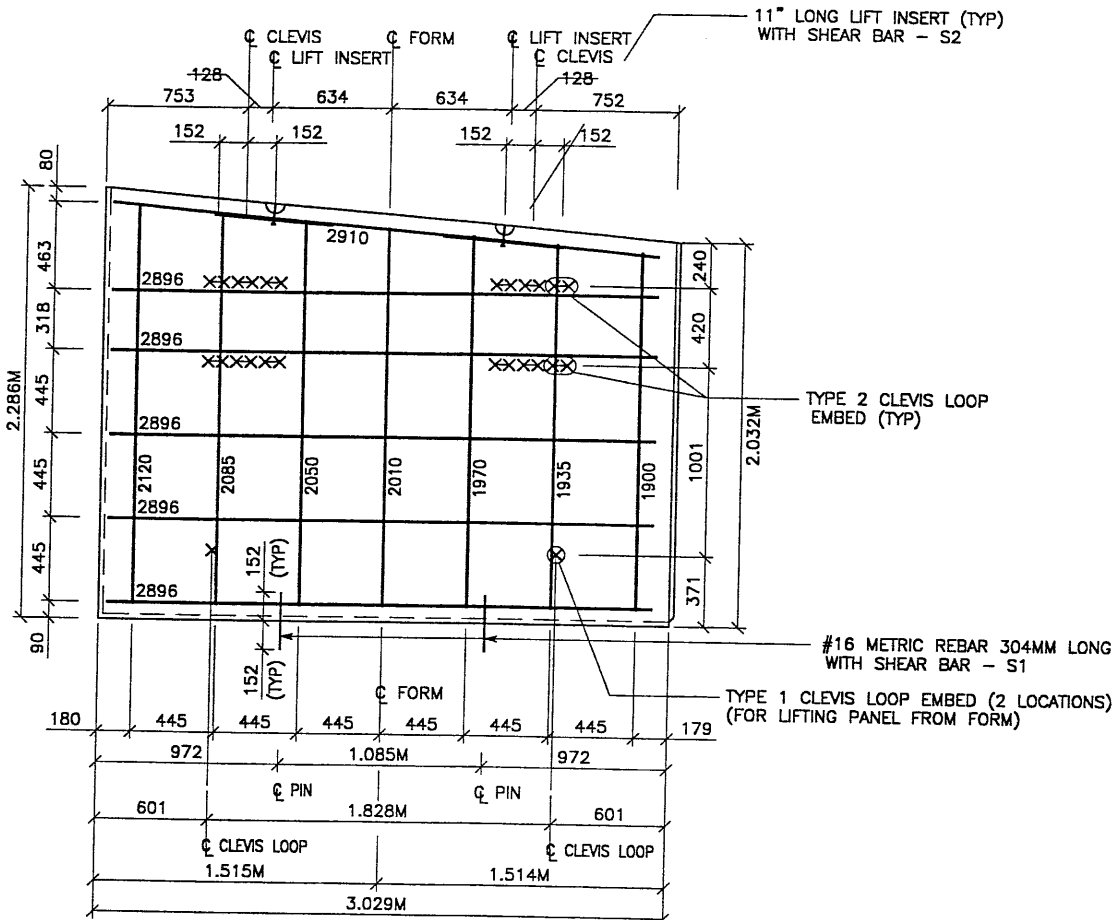
ATLANTA, GA / DALLAS, TX / PALMDALE, CA (CORPORATE OFFICE)
 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

WASATCH CONSTRUCTORS
FEB 28 2000
 RELEASED FOR CONSTRUCTION

RETAINED EARTH™ WALLS	
WALL "R-351-37" - 2ND. STAGE: PRECAST WALL	
UTAH I-15 INTERCHANGE	
SALT LAKE COUNTY, UTAH	
UTAH DEPARTMENT OF TRANSP.	
DWG. NO.	3.2R-351-37.12
JOB NO.	239-0007
SHT. NO.	RE-8

RFC After Final Approval

FINAL PLOT 01-28-00



APPROVED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	01-27-00	RELEASE FOR 2ND STAGE CONSTRUCTION

- PANEL REINFORCEMENT NOTES:
- PANELS ARE SHOWN BACK FACE.
 - HORIZONTAL REINFORCEMENT SHALL HAVE 50 mm MINIMUM COVER TO THE BACK FACE.
 - ALL REINFORCEMENT SHALL HAVE 50 mm MINIMUM COVER TO THE SIDES.
 - ALL REINFORCING BARS ARE #13 METRIC. LABELS ON EACH BAR INDICATE LENGTH. EXAMPLE: 1345 IS A #13 BAR 1345 mm LONG.
 - PANEL REINFORCEMENT BARS SHALL BE DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT CONFORMING TO THE SPECIFICATIONS OF ASTM DESIGNATION A615, GRADE 60.
 - ALL REINFORCING STEEL TO BE GALVANIZED IN ACCORDANCE WITH ASTM 767 CLASS I.
 - CONCRETE PANELS TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 25,200 KPa.
 - EQUIVALENT WELDED WIRE FABRIC MAY BE USED.
 - ALL PANELS TO USE 9.5mmØ WIDE CLEVIS LOOPS.
 - VSL RETAINED EARTH™ IS PROTECTED UNDER PATENT 4,725,170.
 - LIFT INSERTS ARE 6 3/4" LONG IN ALL PANELS LESS THAN 1.524M TALL. PANELS TALLER THAN 1.524M SHALL HAVE 11" LONG LIFT ANCHORS.
 - SEE FOSTER GEOTECHNICAL STD. PLANS FOR ADD'L PANEL DETAILS

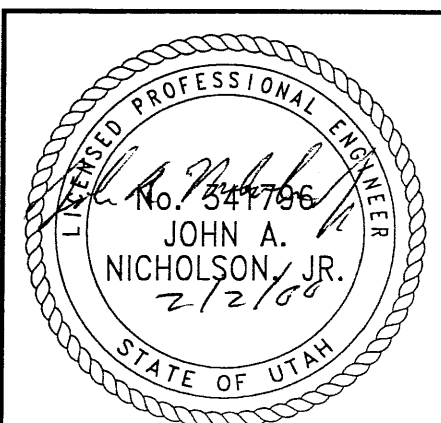
DES. 01-27-00	REVISED	NO.	DATE
DRN. 01-27-00	DSW		
CHK. 01-27-00	FH		

VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-4272
Fax: (919) 781-4669

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

RETAINED EARTH™ WALLS
WALL R-351-37"
2-STAGE PANEL REINFORCEMENT
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO. 3.2R-351-37.13
JOB NO. 239-0007
SHT. NO. RE-9

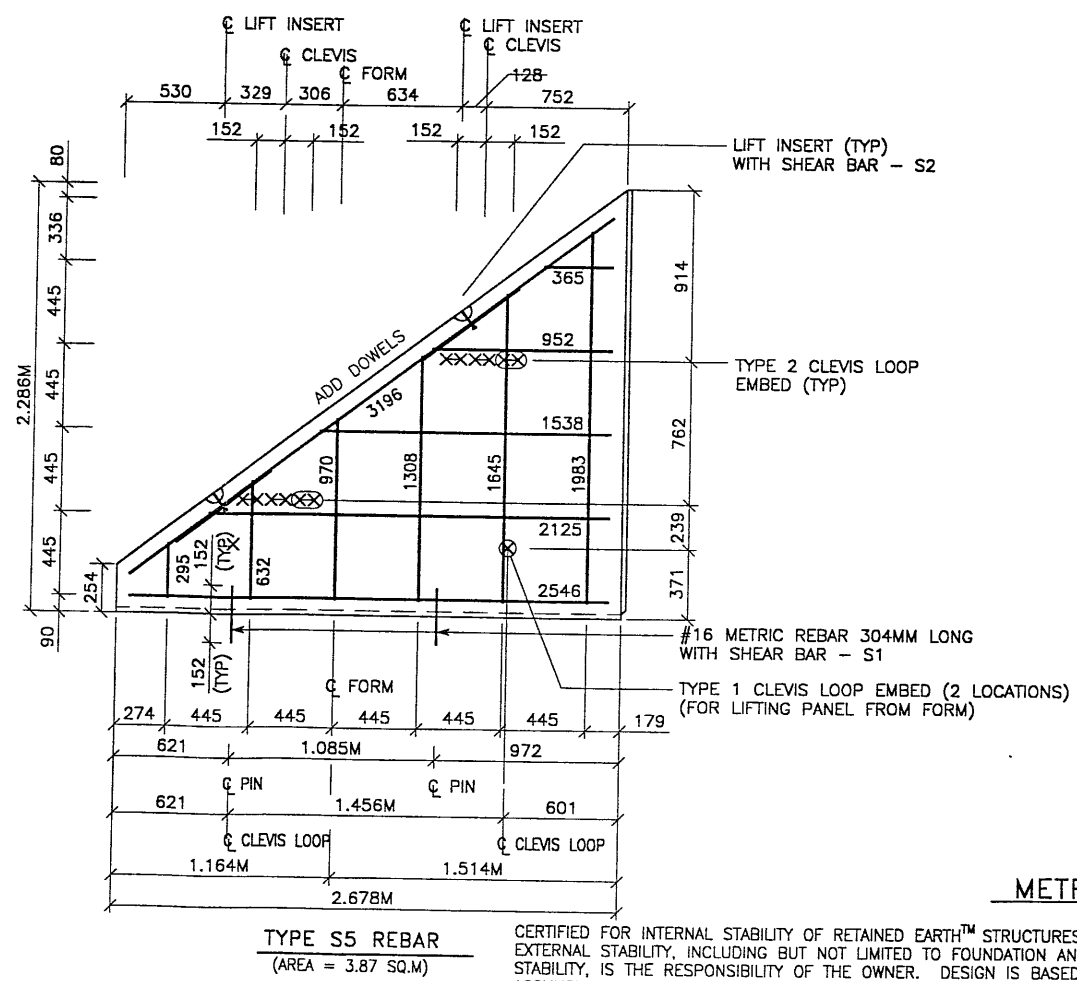
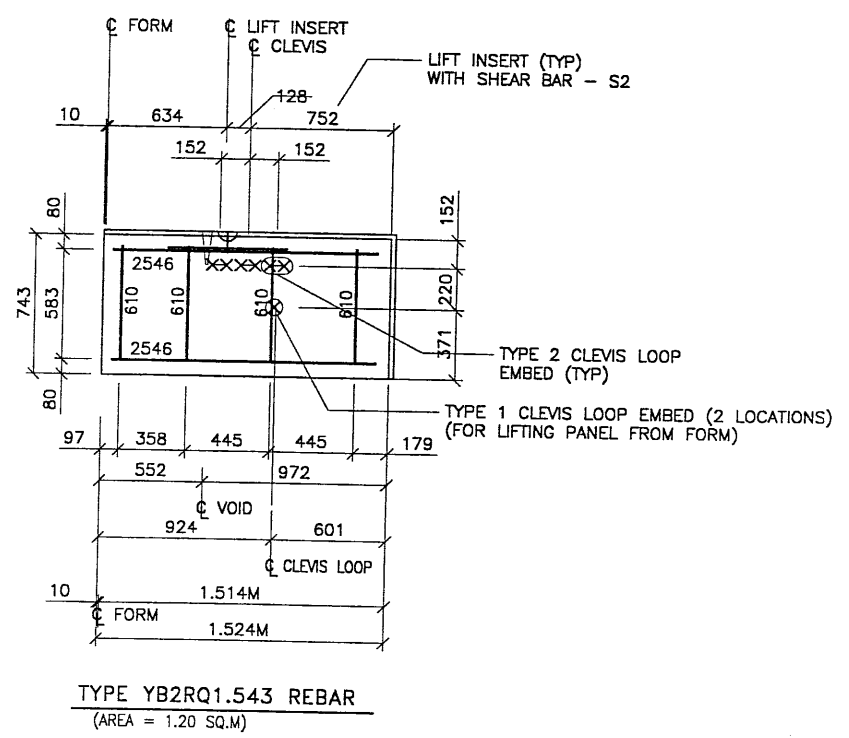
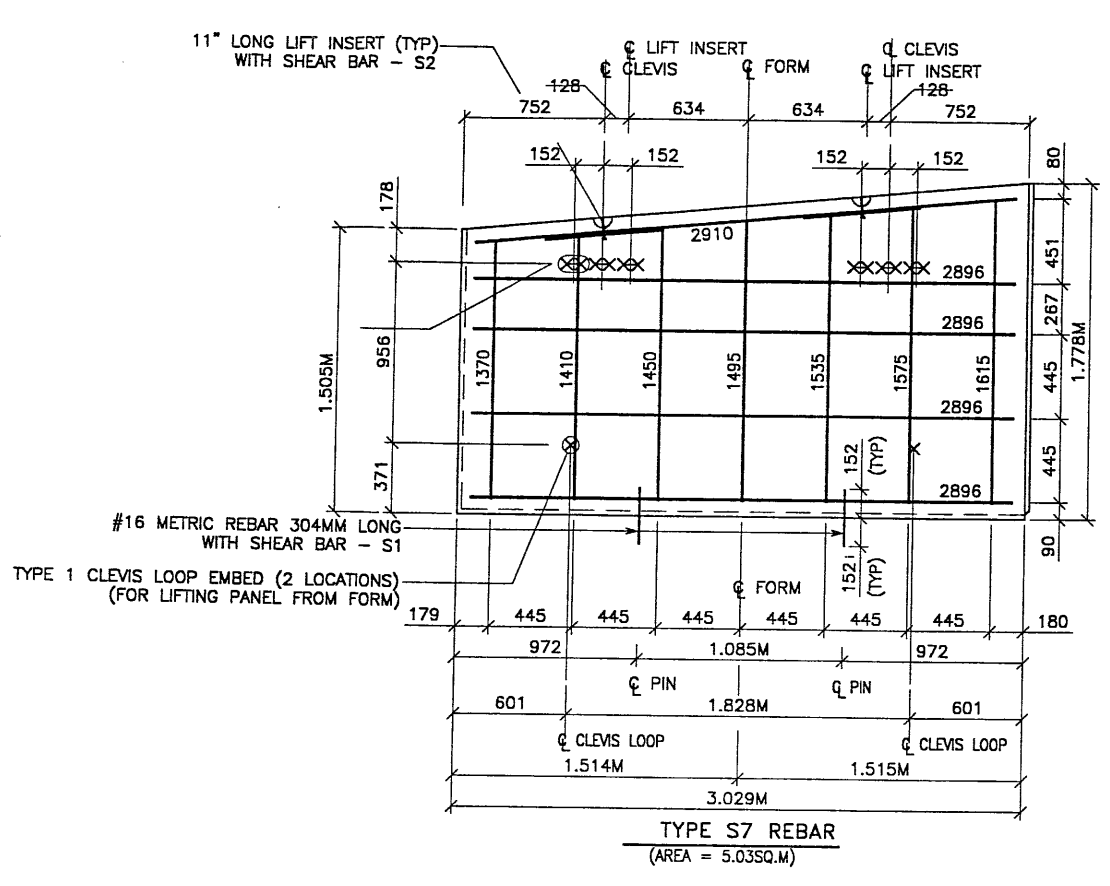
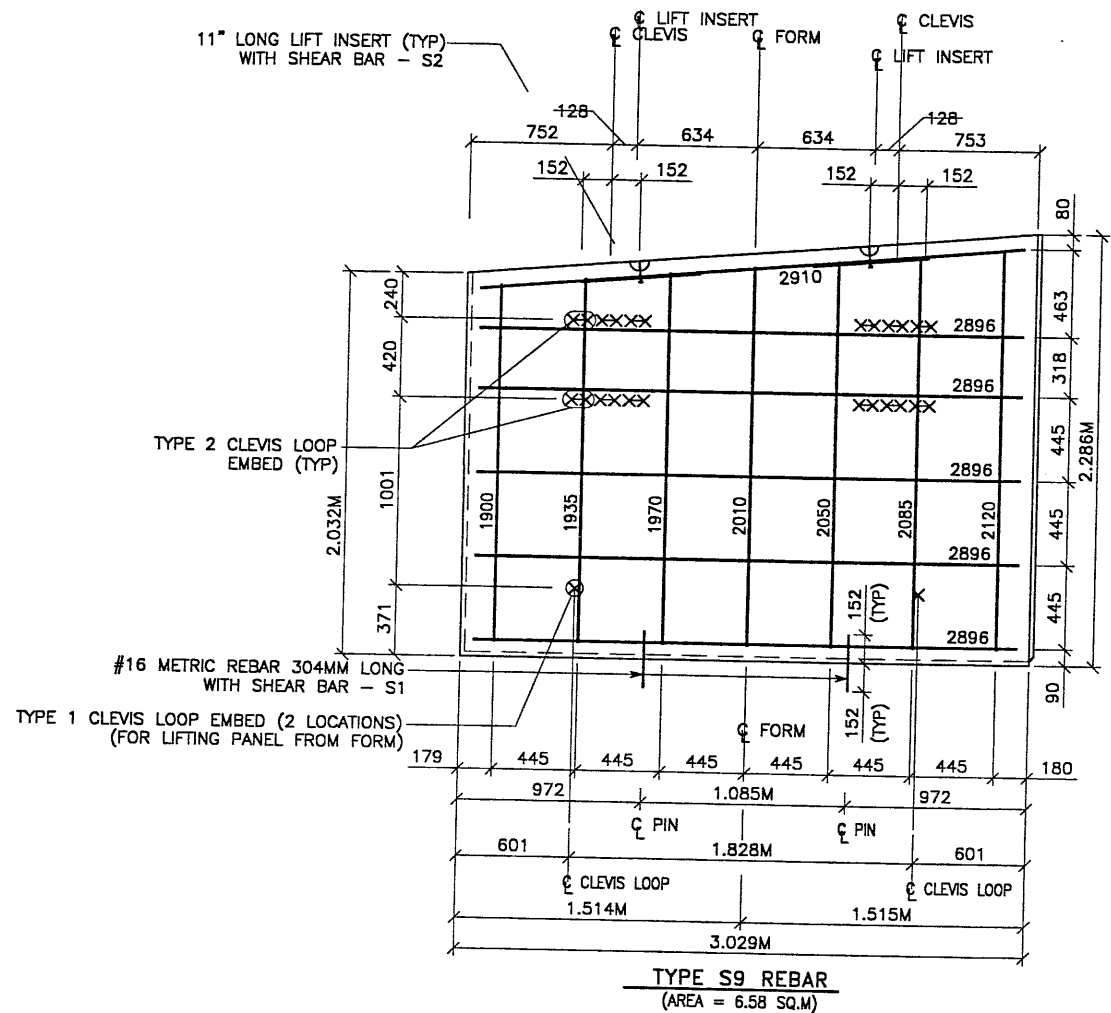


RFC After Final Approval

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METRIC

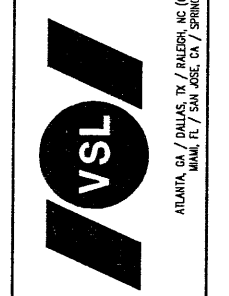
FINAL PLOT 01-28-00



APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-27-00	RELEASE FOR 2ND STAGE CONSTRUCTION

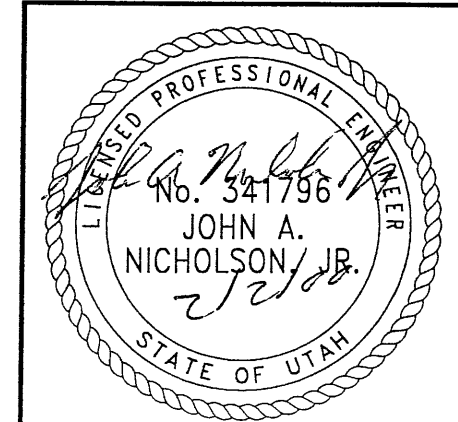
- PANEL REINFORCEMENT NOTES:
- PANELS ARE SHOWN BACK FACE.
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 - ALL PANELS TO USE 9.5mmØ WIDE CLEVIS LOOPS.
 - VSL RETAINED EARTH™ IS PROTECTED UNDER PATENT 4,725,170.
 - LIFT INSERTS ARE 6 3/4" LONG IN ALL PANELS LESS THAN 1.524M TALL. PANELS TALLER THAN 1.524M SHALL HAVE 11" LONG LIFT ANCHORS.
 - SEE FOSTER GEOTECHNICAL STD. PLANS FOR ADD'L PANEL DETAILS

VSL CORPORATION (US/L)
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-6272
Fac: (919) 781-6859



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WASATCH CONSTRUCTORS
FEB 28 2000
RELEASED FOR CONSTRUCTION

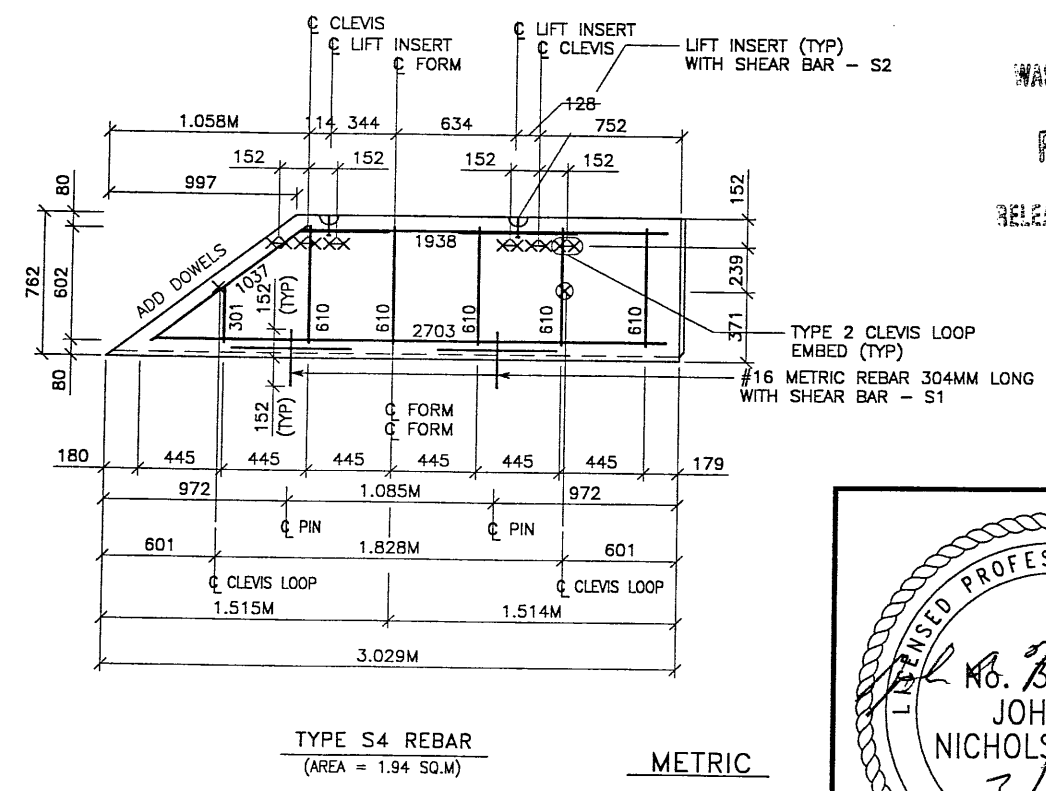
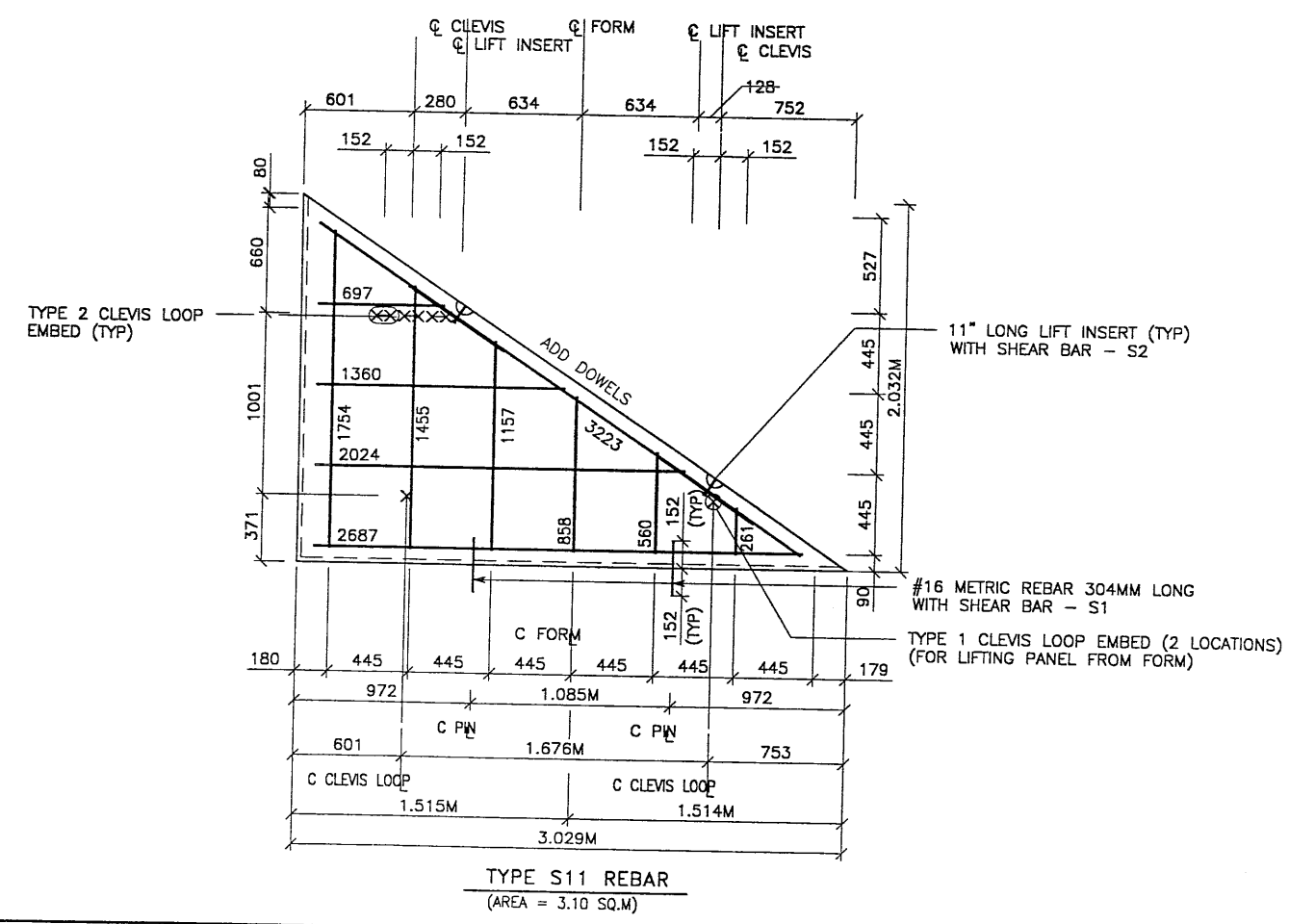
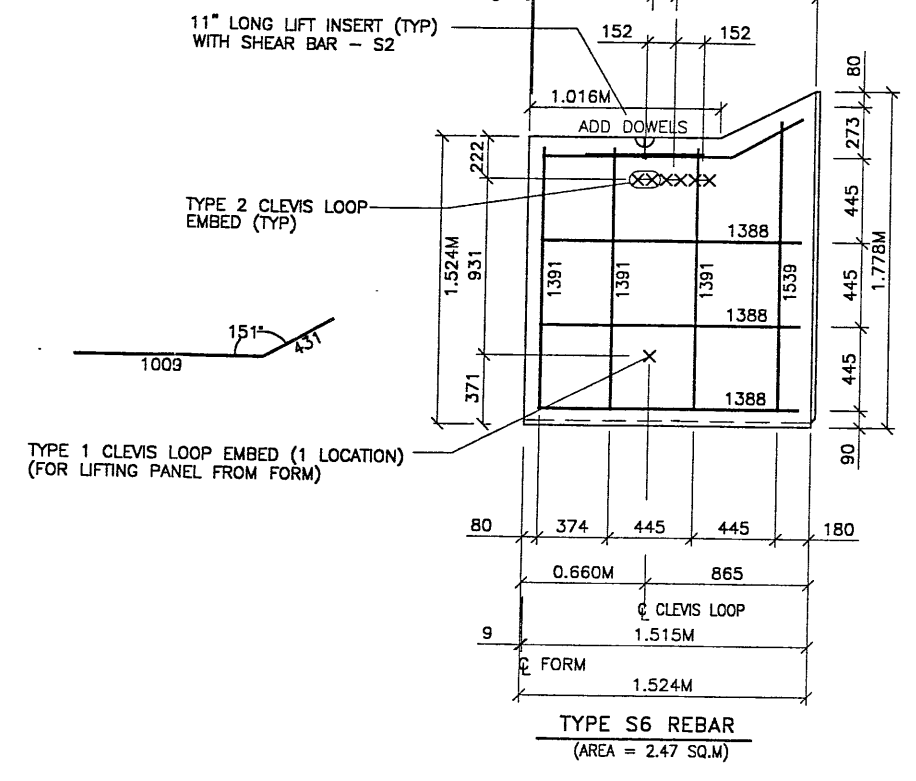
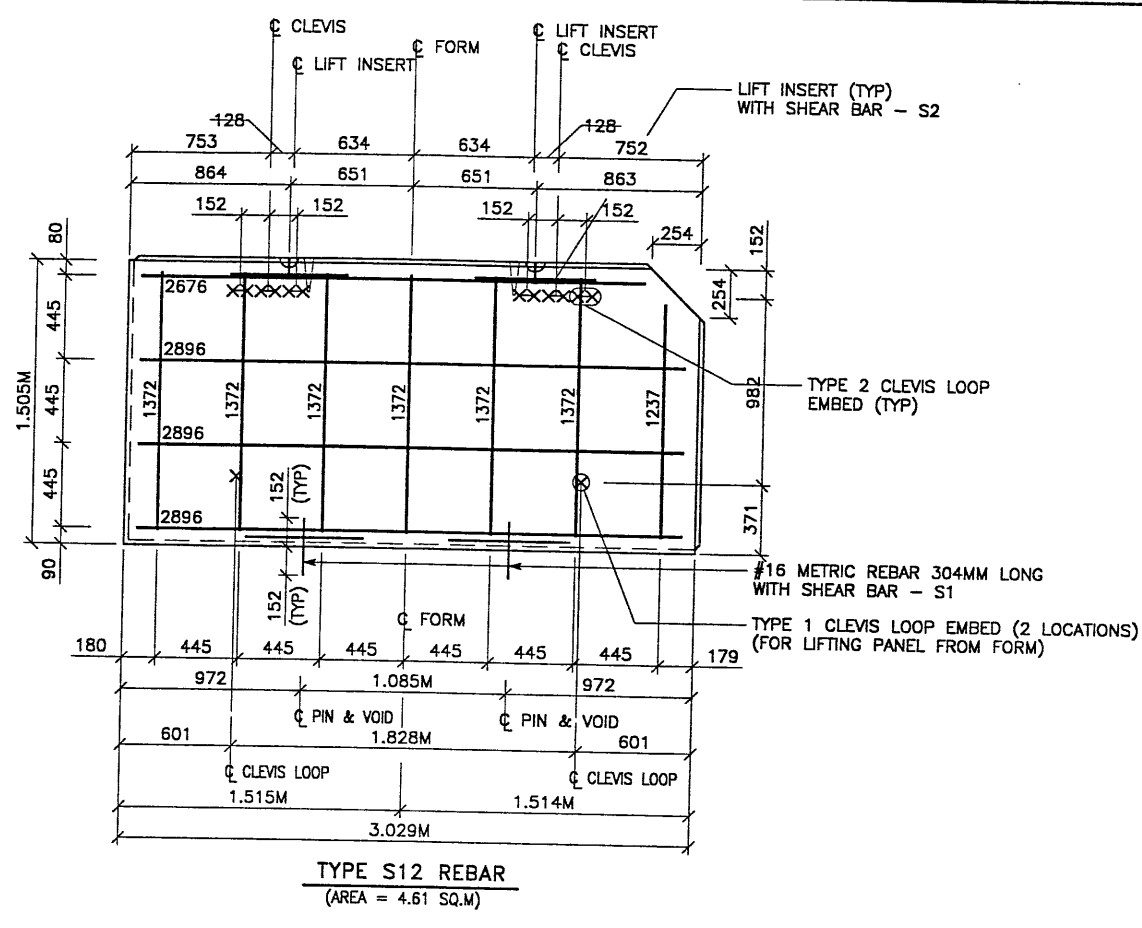


RETAINED EARTH™ WALLS
WALL "R-351-37"
2-STAGE PANEL REINFORCEMENT
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.
DWG. NO.
3.2R-351-37.14
JOB NO:
239-0007
SHT. NO.
RE-10

RFC After Final Approval

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FINAL PLOT 01-28-00



APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	10-12-99	RELEASE FOR 2ND STAGE CONSTRUCTION

- PANEL REINFORCEMENT NOTES:**
- PANELS ARE SHOWN BACK FACE.
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DES.	DRN.	CHK.	NO.	DATE	REVISION	BY
10-12-99	FH	DSW	FH	10-12-99		CHK

VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-8772
Fax: (919) 781-4669

VSL
ATLANTA, GA / DALLAS, TX / DENVER, CO (CORPORATE OFFICE)
MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

WASATCH CONSTRUCTORS
FEB 28 2000
RELEASED FOR CONSTRUCTION

RETAINED EARTH™ WALLS
WALL "R-351-37"
2-STAGE PANEL REINFORCEMENT
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

REGISTERED PROFESSIONAL ENGINEER
JOHN A. NICHOLSON, JR.
2/2/00
STATE OF UTAH

DWG. NO.	3.2R-351-37.15
JOB NO.	239-0007
SHT. NO.	RE-11

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RFC After Final Approval

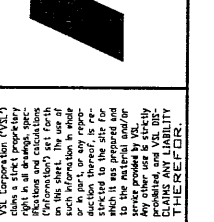
APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-27-00	RELEASE FOR 2ND STAGE CONSTRUCTION <i>M</i>

- PANEL REINFORCEMENT NOTES:
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 7. CONCRETE PANELS TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 25,200 KPa.
 8. EQUIVALENT WELDED WIRE FABRIC MAY BE USED.
 9. ALL PANELS TO USE 9.5mm Ø WIDE CLEVIS LOOPS.
 10. VSL RETAINED EARTH™ IS PROTECTED UNDER PATENT 4,725,170.
 11. LIFT INSERTS ARE 6 3/4" LONG IN ALL PANELS LESS THAN 1.524M TALL. PANELS TALLER THAN 1.524M SHALL HAVE 11" LONG LIFT ANCHORS.
 12. SEE FOSTER GEOTECHNICAL STD. PLANS FOR ADD'L PANEL DETAILS

NO.	DATE	REVISION	BY	CHK

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-6272
 Fax: (919) 781-6869

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

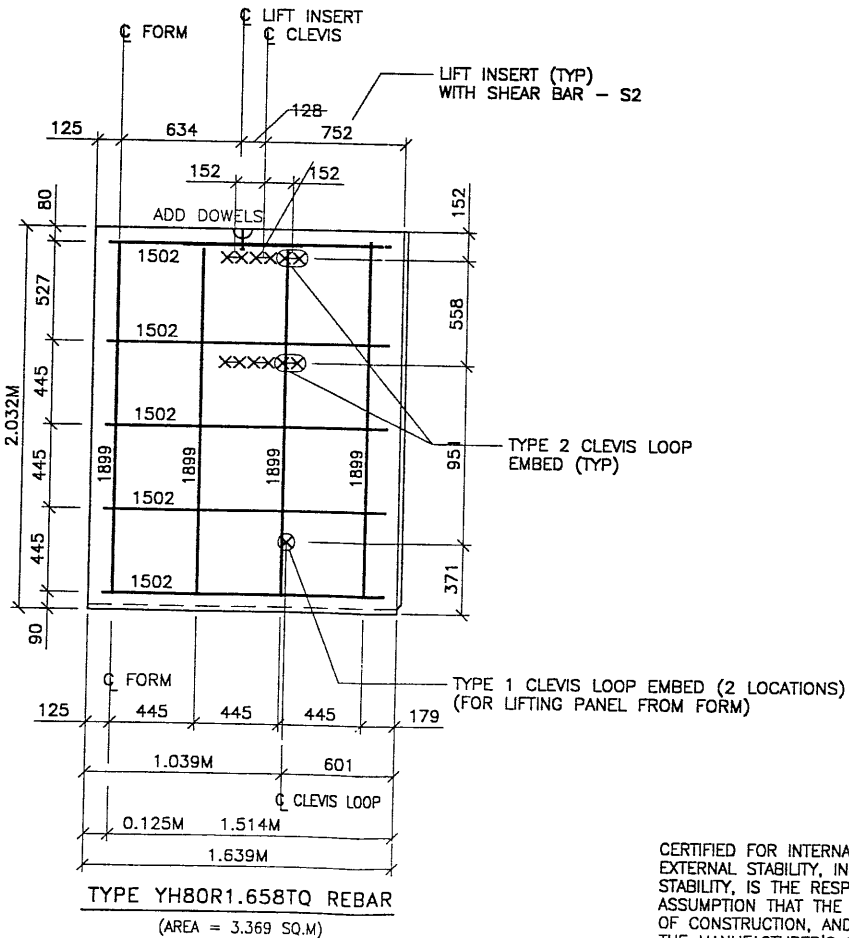
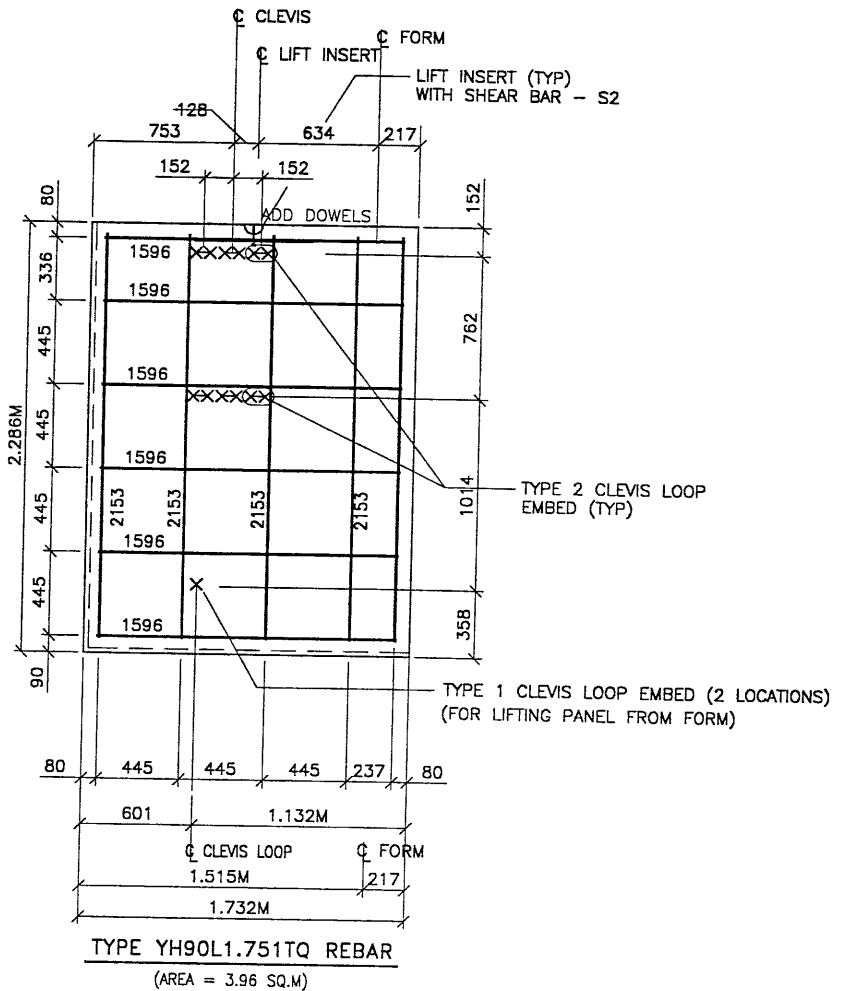
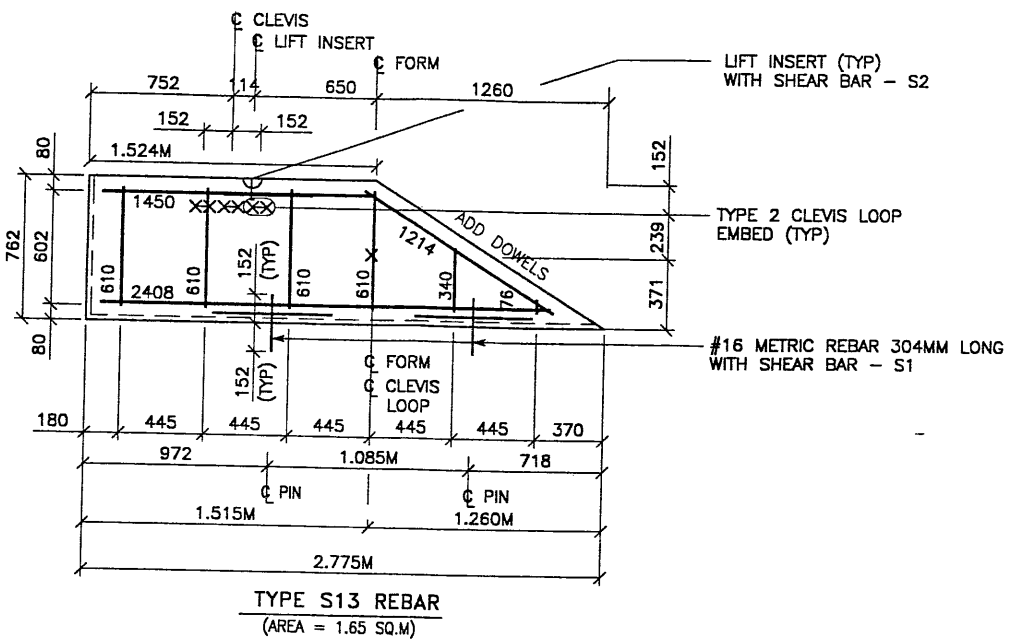
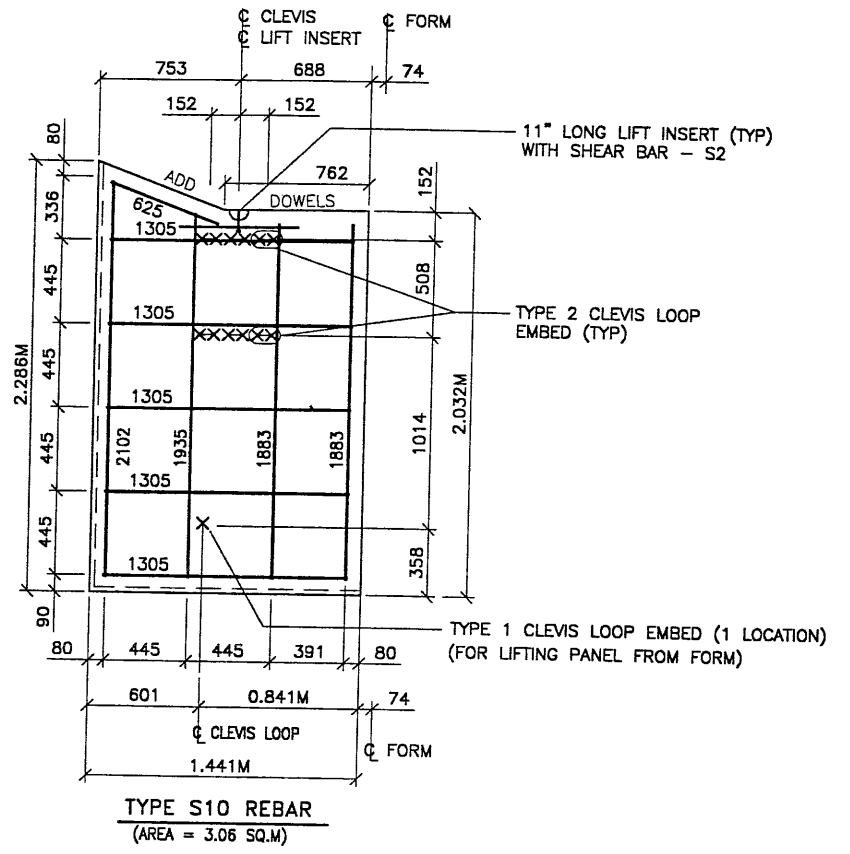


RETAINED EARTH™ WALLS
 WALL "R-351-37"
 2-STAGE PANEL REINFORCEMENT
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.
3.2R-351-37.16

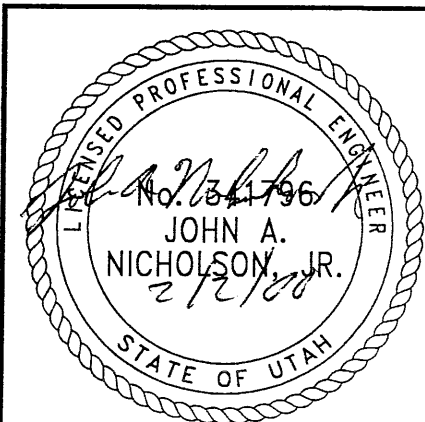
JOB NO:
239-0007

SHT. NO
RE-12

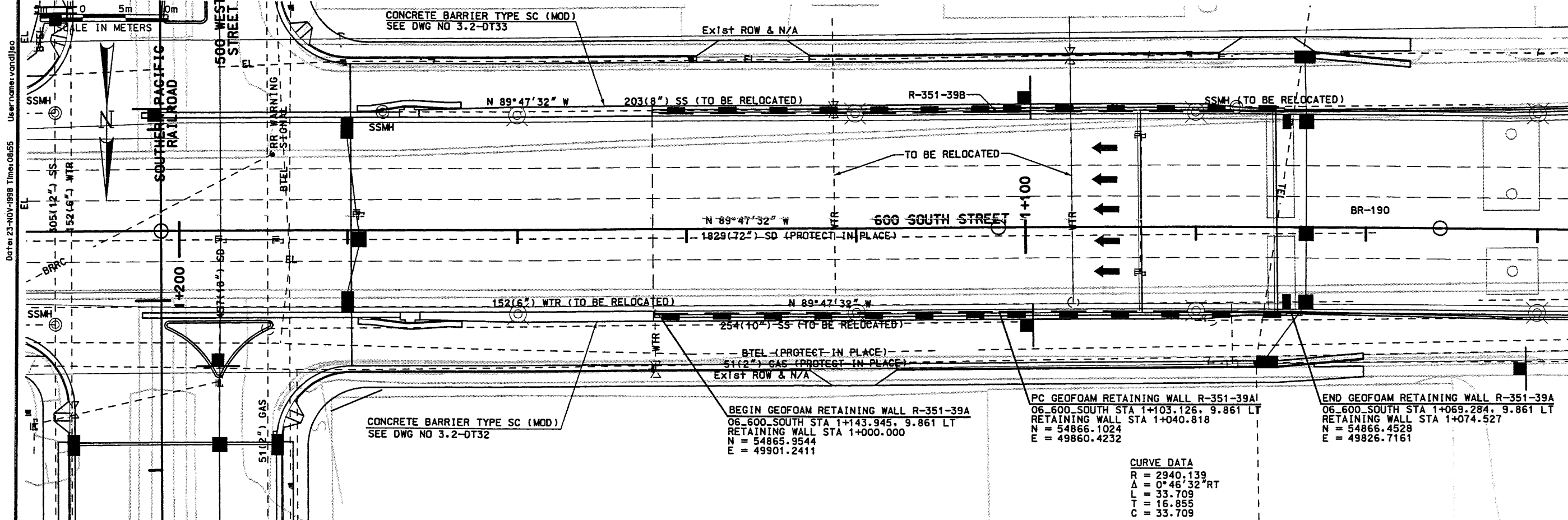


CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY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

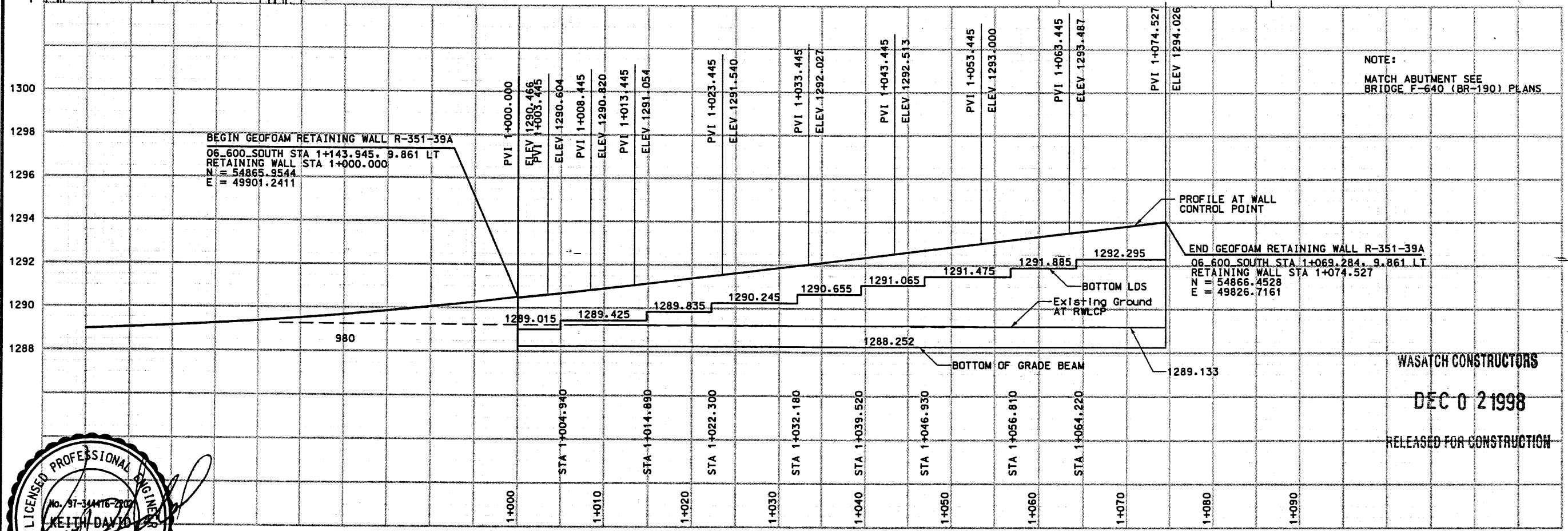
METRIC



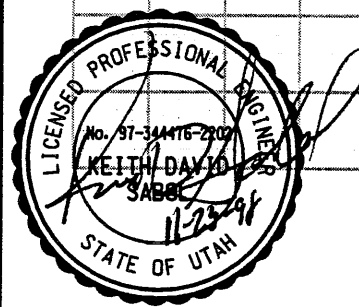
WASATCH CONSTRUCTION
 FEB 28 2000
 RELEASED FOR CONSTRUCTION



CURVE DATA
 R = 2940.139
 Δ = 0°46'32" RT
 T = 33.709
 L = 46.855
 C = 33.709



NOTE:
 MATCH ABUTMENT SEE
 BRIDGE F-640 (BR-190) PLANS



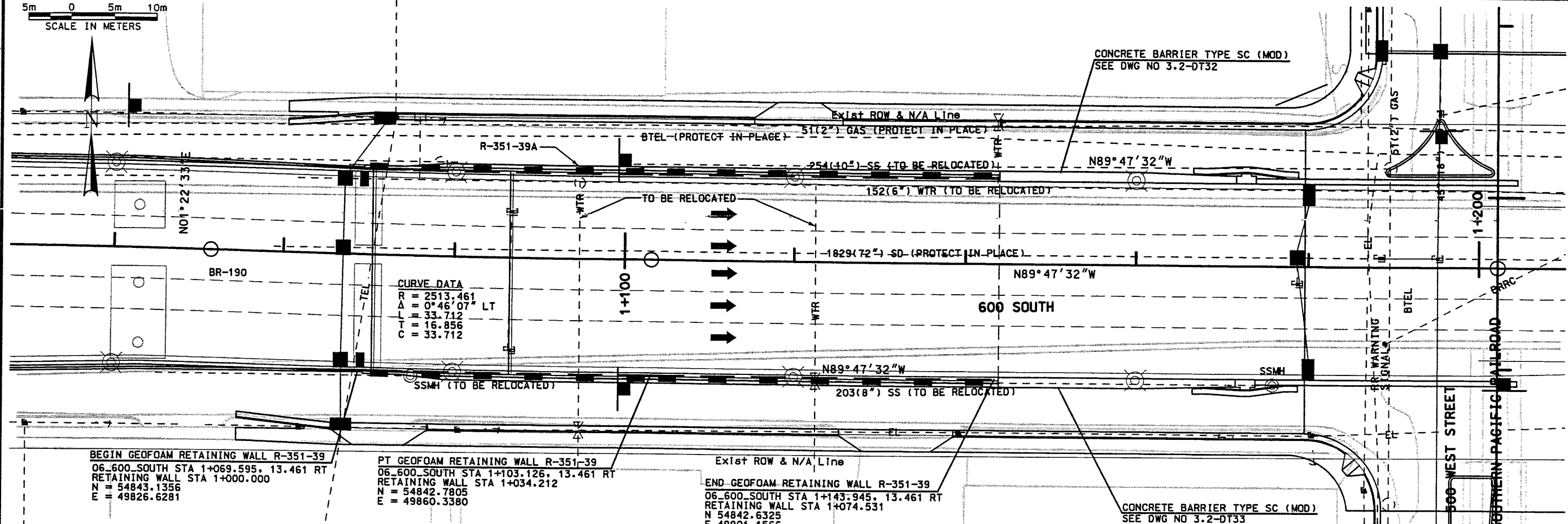
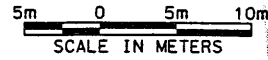
WALL R-351-39A
 VIEW IS FRONT FACE OF WALL

WASATCH CONSTRUCTORS
 DEC 0 2 1998
 RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE		
△	06/16/98	RELEASE FOR CONSTRUCTION GEOFOAM WALL ONLY	
△	11/20/98	REMOVE NFC CLOUDS	
UTAH DEPARTMENT OF TRANSPORTATION		DESIGN	PLC 11/20/98
		DRAWN	SVD 11/20/98
		CHECK	PLC 11/20/98
		QUANT.	3213409
I-15 CORRIDOR RECONSTRUCTION		DESIGN	DP 11/20/98
SITUATION & LAYOUT		PROJECT DESIGN ENGINEER	MARVIN COOK
SECTION 3.2		DATE	11/20/98
PROJECT NUMBER		APPROVED	11/20/98
#SP-15-7(135)296		DATE	11/20/98
SALT LAKE COUNTY		SECTION MANAGER	KEITH SABOL
DWG. NO		3.2-R351-3.1	
SHT. 1 OF 3			

Date: 23-NOV-1998 Time: 09:55 User: vanderjoo
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Date: 23-Nov-1998 Time: 08:56 Username: vordjlec



BEGIN GEOFOAM RETAINING WALL R-351-39
 06_600_SOUTH STA 1+069.595, 13.461 RT
 RETAINING WALL STA 1+000.000
 N = 54843.1356
 E = 49826.6281

PT GEOFOAM RETAINING WALL R-351-39
 06_600_SOUTH STA 1+103.126, 13.461 RT
 RETAINING WALL STA 1+034.212
 N = 54842.7805
 E = 49860.3380

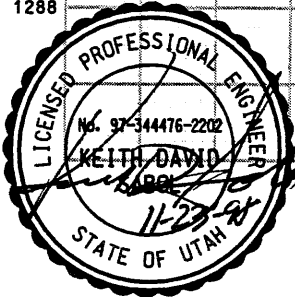
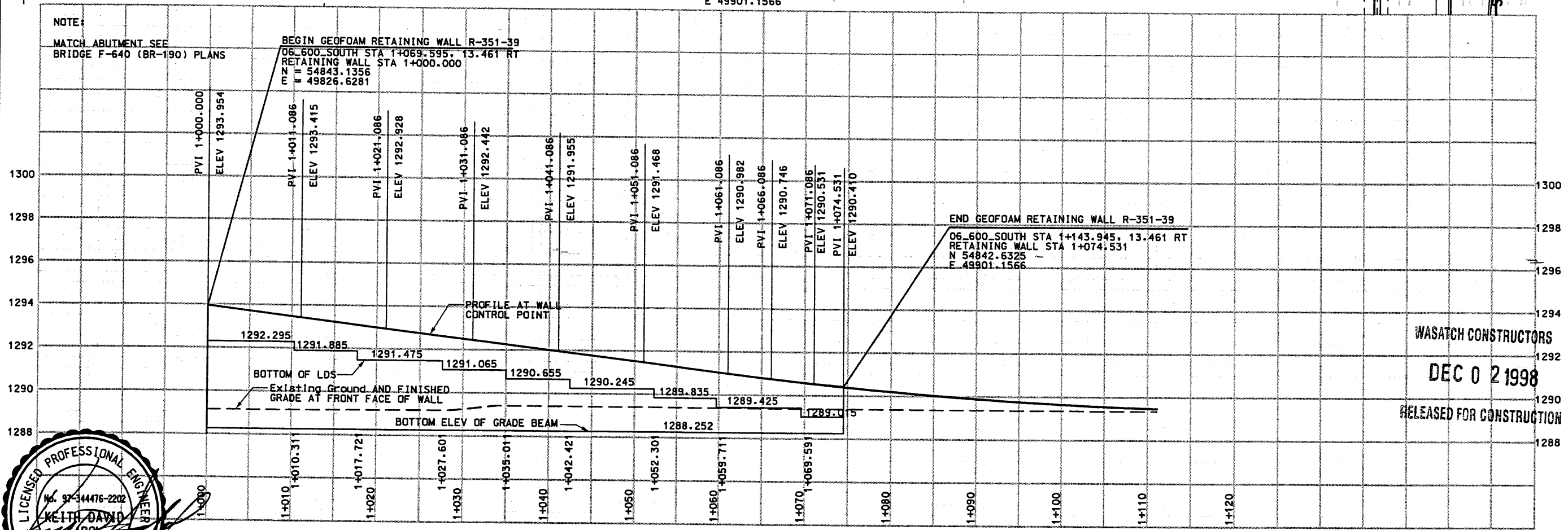
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 06_600_SOUTH STA 1+143.945, 13.461 RT
 RETAINING WALL STA 1+074.531
 N 54842.6325
 E 49901.1566

NOTE:

MATCH ABUTMENT SEE
 BRIDGE F-640 (BR-190) PLANS

BEGIN GEOFOAM RETAINING WALL R-351-39
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 RETAINING WALL STA 1+000.000
 N = 54843.1356
 E = 49826.6281

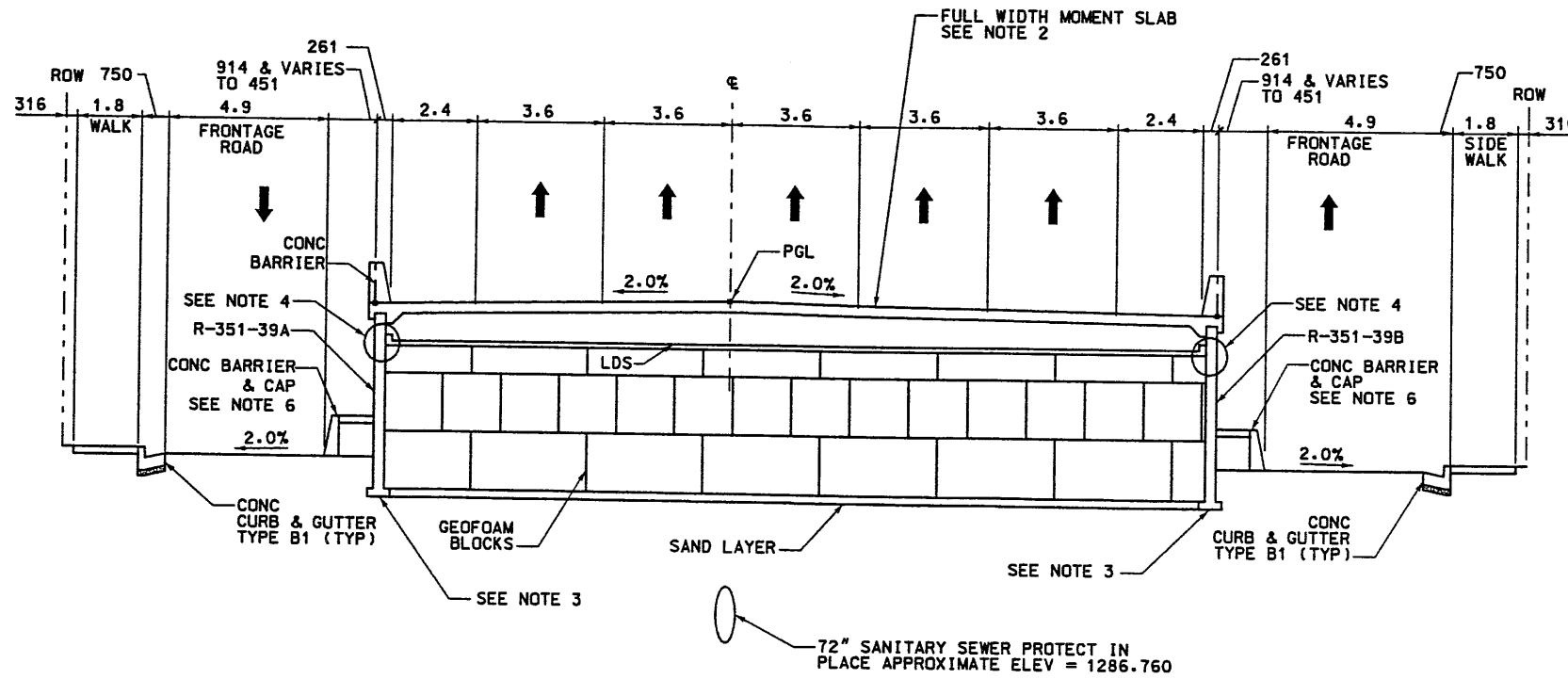
END GEOFOAM RETAINING WALL R-351-39
 06_600_SOUTH STA 1+143.945, 13.461 RT
 RETAINING WALL STA 1+074.531
 N 54842.6325
 E 49901.1566



WALL R-351-39B
 VIEW IS FRONT FACE OF WALL

WASATCH CONSTRUCTORS
 DEC 02 1998
 RELEASED FOR CONSTRUCTION

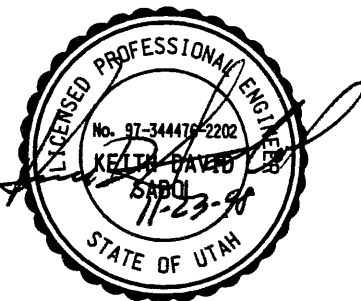
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NO.	DATE	NO.	DATE
Δ	06/16/98	Δ	06/16/98
Δ	11/20/98	Δ	11/20/98
RELEASE FOR CONSTRUCTION GEOFOAM WALL ONLY		REMOVE NFC CLOUDS	
		QUANT.	
		3213409	
UTAH DEPARTMENT OF TRANSPORTATION			
I-15 CORRIDOR RECONSTRUCTION		SVERDRUP/DE LEUW	
SITUATION & LAYOUT		SECTION 3.2	
PROJECT NUMBER #SP-15-(1135)296		DATE 11/20/98	
SALT LAKE COUNTY		DWG. NO. 3.2-R351-39.2	
SHT. 2 OF 3			



RETAINING WALL DETAILS
WALL R-351-39
 LOOKING EAST

NOTES:

- 1) FOR GEOFOAM DETAILS SEE STANDARD CORRIDOR PLANS CS-43 THRU CS-51
- 2) FOR MOMENT SLAB AND COPING DETAILS SEE DWG NO 3.2-R351-39.4
- 3) FOR GRADE BEAM DETAILS SEE CS-45
- 4) FOR GEOFOAM RESTRAINT DETAILS SEE CS-45
- 5) FOR PRECAST WALL PANEL DETAILS SEE CS-45
- 6) FOR CONC BARRIER & CAP DETAILS SEE DWG NO 3.2-R351-39.4

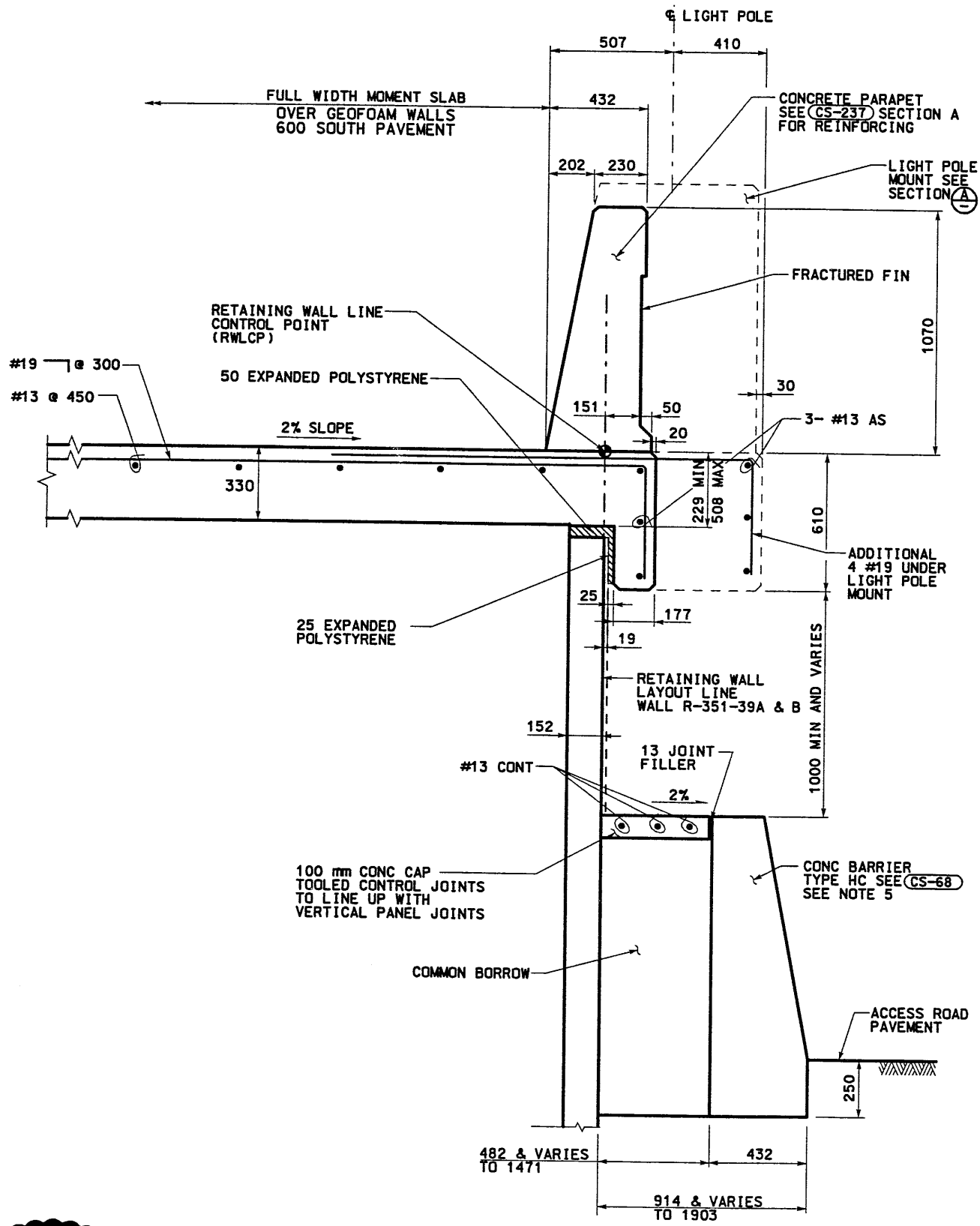


APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
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2	11/20/98	2	11/20/98
RELEASE FOR CONSTRUCTION		REMOVE NFC CLOUDS	
RELEASE FOR CONSTRUCTION		REMOVE NFC CLOUDS	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
DESIGN	MC	CHECK	PLC
11/20/98	11/20/98	11/20/98	11/20/98
DRAWN	CC	CHECK	PLC
11/20/98	11/20/98	11/20/98	11/20/98
PROJECT NUMBER	3213409		
DATE	11/23/98		
SECTION MANAGER	KEITH SABOL		
QUANT.	3213409		
I-15 CORRIDOR RECONSTRUCTION			
TYPICAL SECTION			
SECTION 3.2			
PROJECT NUMBER *SP-15-7(135)296			
SALT LAKE COUNTY			
DWG. NO. 3.2-R351-39.3			
SHT.	3	OF	3

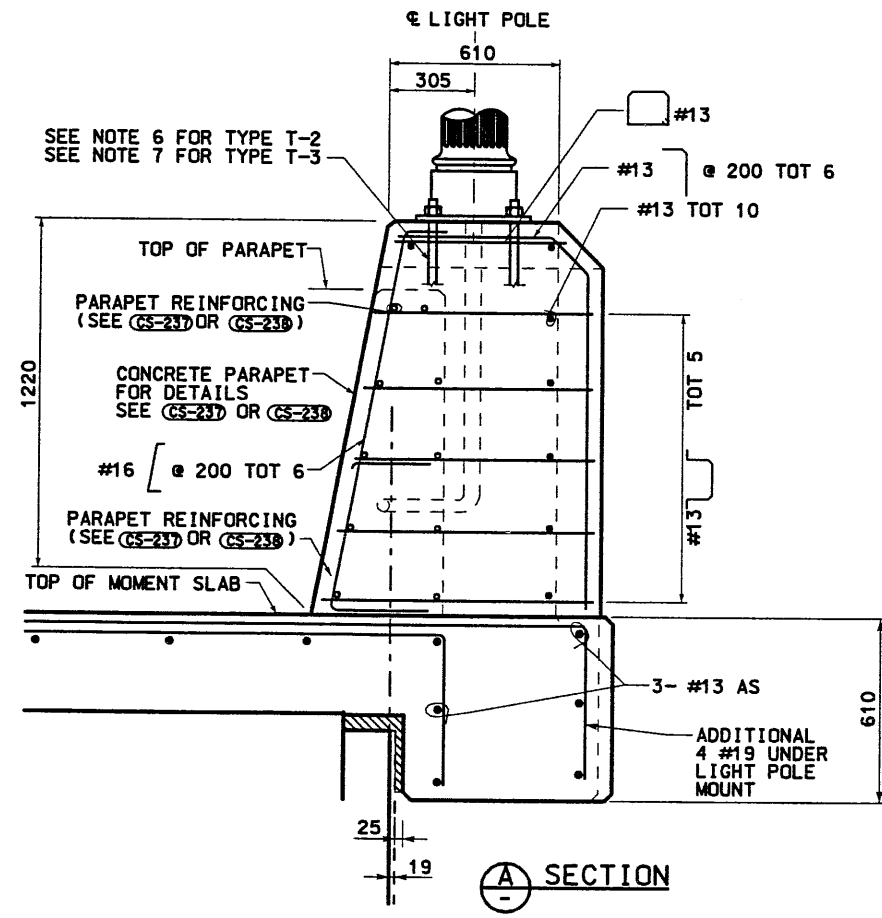
WASATCH CONSTRUCTORS
 DEC 2 1998
 RELEASED FOR CONSTRUCTION

User name submitted

File name P:\15_cadd\15_cadd\06_37\sheet_1\files\wall\06_wall_39v.dgn



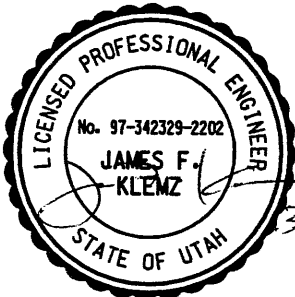
GEOFOAM WITH LIGHT POLE MOUNT & BARRIER ON MOMENT SLAB
WALL R-351-39
 NTS



LIGHT POLE MOUNT

NOTES:

1. 50mm MINIMUM COVER OVER REINFORCING.
2. USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING.
5. FOR BEGINNING STATIONING AND TAPER LAYOUT SEE DWG NO. 3.2-DT32 AND 3.2-DT33.
6. TYPE T-2 LIGHT IS UNION METAL DRAWING NO. N807-20-SPL WITH LUMINAIRE DRAWING NO. NL318R-3-A1. ALSO SEE SALT LAKE CITY DRAWING DATED 5/27/98 DESIGNED BY HEATH ENGINEERING COMPANY AND POLE SUPPLIER / MANUFACTURE'S STANDARD DRAWING / SKETCH NO 051498-A1.
7. TYPE T-3 LIGHT IS UDOT STANDARD DRAWING NO. 755-1 & 755-2.



APPROVED FOR CONSTRUCTION	
NO.	DESCRIPTION
03/05/99	RELEASE FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

DESIGN	SS 11/13/98	CHECK	SS 11/13/98
DRAWN	MJS 11/13/98	CHECK	CY 11/13/98
PROJECT DESIGN ENGINEER	MARVIN COOK		
SECTION MANAGER	KEITH SANDOZ		

I-15 CORRIDOR RECONSTRUCTION	TYPICAL SECTION	SECTION 3.2	PROJECT NUMBER #SP-15-7(135)296
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SALT LAKE COUNTY	DWG. NO. 3.2-R351-39.4
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