

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	9-30-98	RELEASE FOR CONSTRUCTION
△	5-21-99	ISSUED AS CSP

DES.	MM	DDO	MM	RETAINED EARTH™	NO.	DATE	BY
	12-19-97						CHK
		12-19-97					
			12-19-97				

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

VSL

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

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RETAINED EARTH™ WALLS
 CORRIDOR STANDARD PLAN
 COMPONENT DETAILS

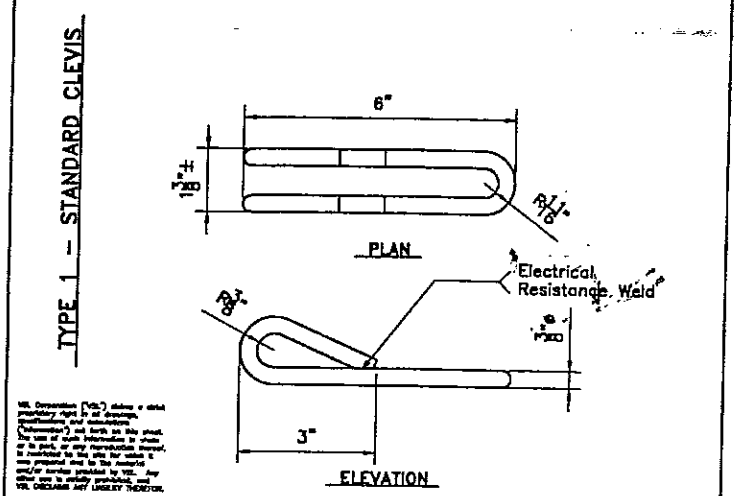
UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.
 CS-315

JOB NO:
 239-0007

SHT. NO.
 STD-15

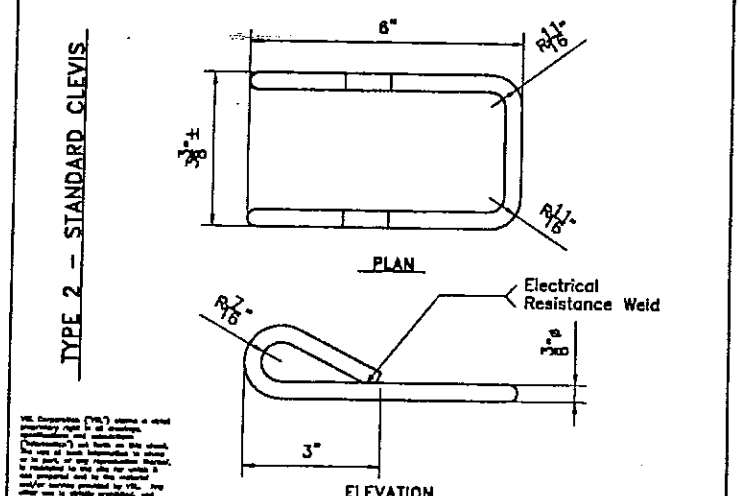
NOTES:
 1. TOLERANCE: ±0.12
 2. MATERIAL: COLD DRAWN STEEL WIRE MEETING THE REQUIREMENTS OF ASTM A-82 (THE LATEST REVISION).
 3. FABRICATE AND WELD AS SHOWN. WELDING MUST BE PERFORMED IN SUCH A MANNER TO ENSURE THAT NO WELDS FAIL BELOW 65000 PSI TIMES THE WIRE X-SECTIONAL AREA AND THAT THE AVERAGE OF ALL WELDS MUST BE IN EXCESS OF 75000 PSI TIMES THE X-SECTIONAL AREA OF EACH WIRE.
 4. TEST AND REPORT ON EACH 500 LOT BATCH.



Date	10/30/97	TYPE 1 - STANDARD CLEVIS	Job No.	239-0007
Designed by				
Checked by		UTAH I-15 RECONSTRUCTION		

VSL
 2840 Pine Plaza, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8272
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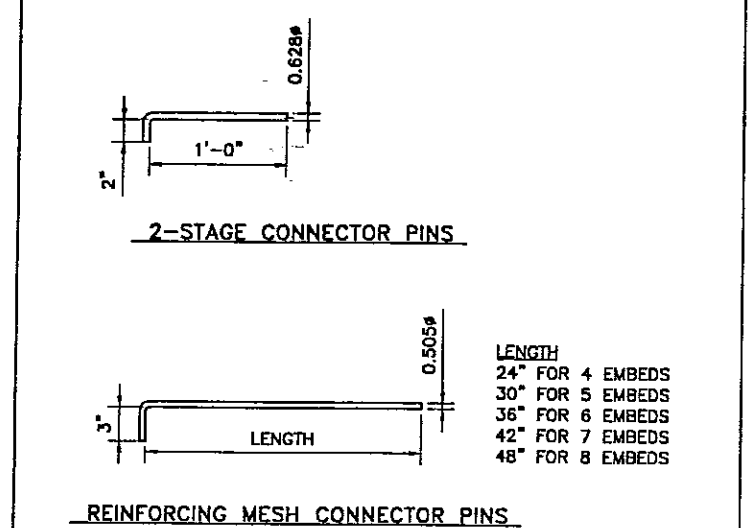
NOTES:
 1. TOLERANCE: ±0.12
 2. MATERIAL: COLD DRAWN STEEL WIRE MEETING THE REQUIREMENTS OF ASTM A-82 (THE LATEST REVISION).
 3. FABRICATE AND WELD AS SHOWN. WELDING MUST BE PERFORMED IN SUCH A MANNER TO ENSURE THAT NO WELDS FAIL BELOW 65000 PSI TIMES THE WIRE X-SECTIONAL AREA AND THAT THE AVERAGE OF ALL WELDS MUST BE IN EXCESS OF 75000 PSI TIMES THE X-SECTIONAL AREA OF EACH WIRE.
 4. TEST AND REPORT ON EACH 500 LOT BATCH.



Date	10/30/97	TYPE 2 - STANDARD CLEVIS	Job No.	239-0007
Designed by				
Checked by		UTAH I-15 RECONSTRUCTION		

VSL
 2840 Pine Plaza, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8272
 Fax: (919) 781-8969

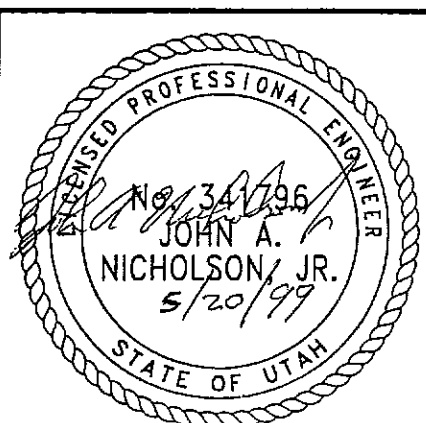
NOTES:
 1. TOLERANCE: ±0.12
 2. MATERIAL: COLD DRAWN STEEL WIRE MEETING THE REQUIREMENTS OF ASTM A-82 (THE LATEST REVISION).



Date	10/30/97	CONNECTOR PINS	Job No.	239-0007
Designed by				
Checked by		UTAH I-15 RECONSTRUCTION		

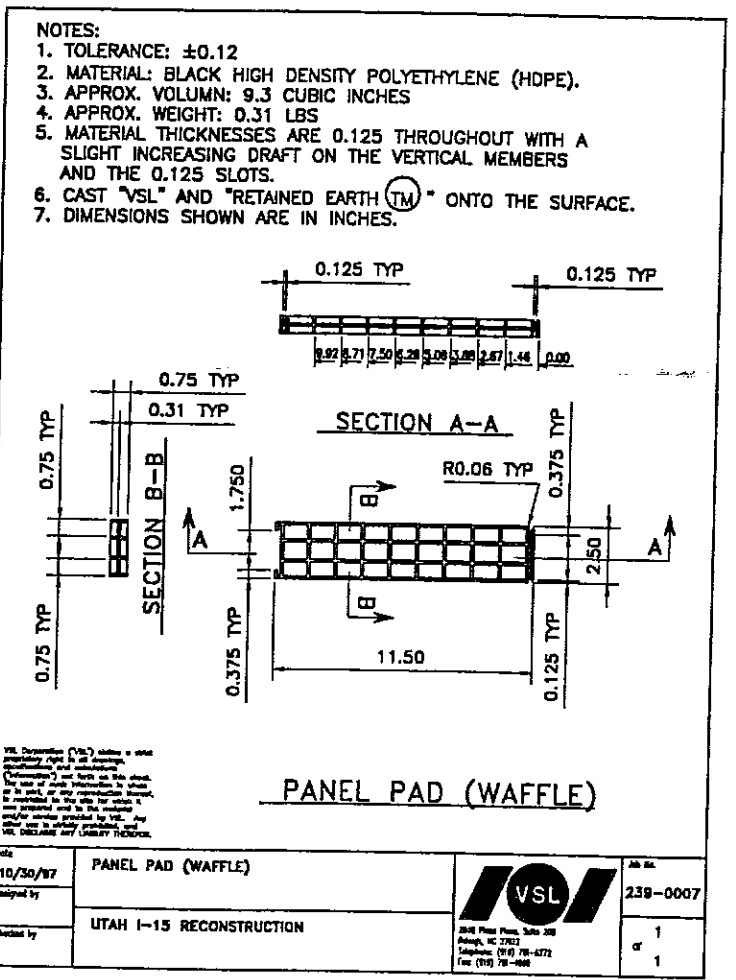
VSL
 2840 Pine Plaza, Suite 200
 Raleigh, NC 27612
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WASATCH CONSTRUCTORS
 JUN 17 1999
 RELEASED FOR CONSTRUCTION



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.



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VSL CORPORATION
 2840 Plaza Place, Suite 200
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 Fax: (919) 781-6889

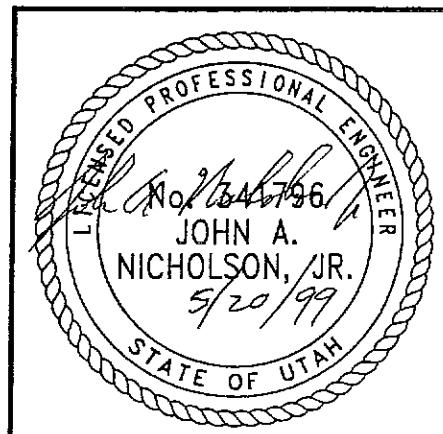
ATLANTA, GA / DALLAS, TX / BALDWIN, NC (CORPORATE OFFICE)
 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

VSL Corporation (VSL) warrants that the design and construction of the VSL Retained Earth™ system shall conform to the specifications and standards set forth in the VSL Retained Earth™ Standard Plan. The use of the VSL Retained Earth™ system shall be limited to the conditions and applications specified in the VSL Retained Earth™ Standard Plan. VSL shall not be responsible for any damage or injury resulting from the use of the VSL Retained Earth™ system in any application not specified in the VSL Retained Earth™ Standard Plan. THESE ARE THE TERMS OF THE WARRANTY.

RETAINED EARTH™ WALLS CORRIDOR STANDARD PLAN COMPONENT DETAILS
UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.
DWG. NO. CS-316
JOB NO. 239-0007
SHT. NO. STD-16

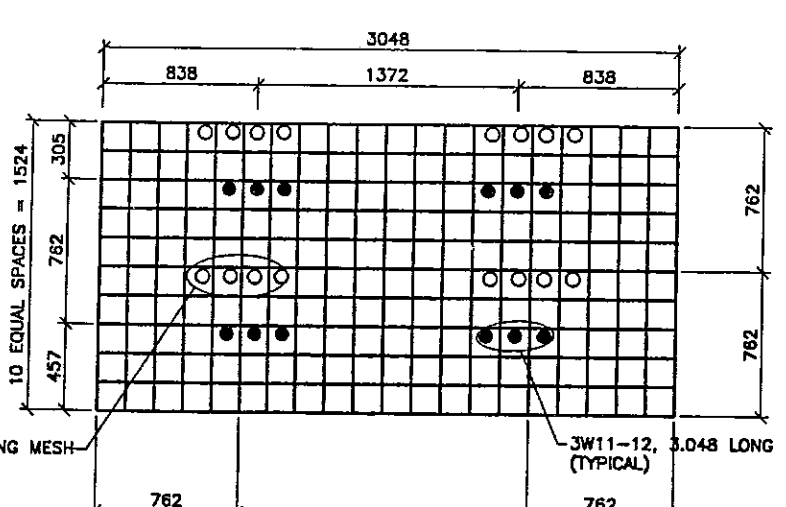
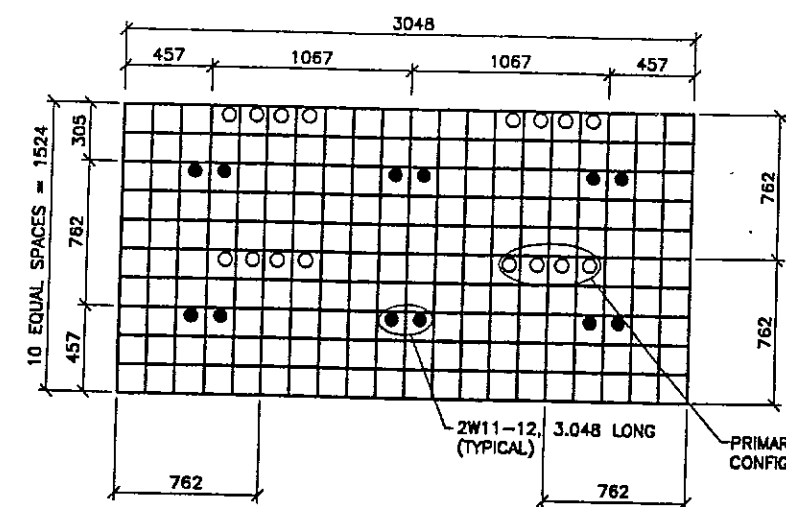
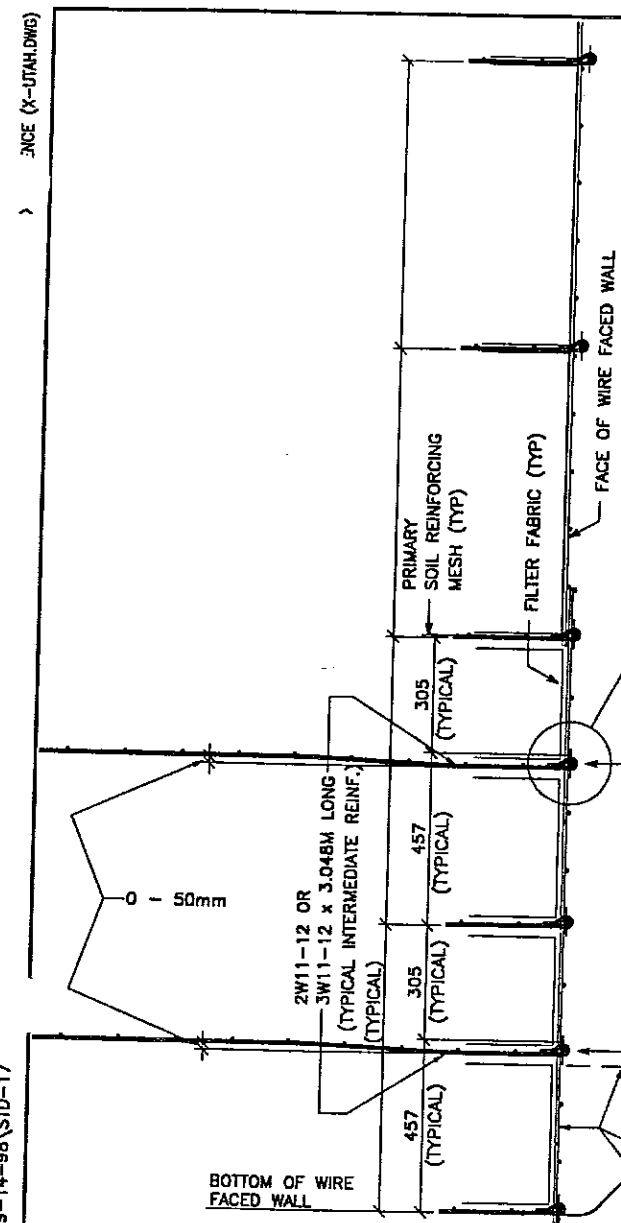
WASATCH CONSTRUCTORS
 JUN 17 1999
 RELEASED FOR CONSTRUCTION

METRIC



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FINAL PLOT 09-30-98 J:\239-0007\STDS\9-14-98\STD-17



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DES.	DRN.	CHK.	RETAINED EARTH™	NO.	DATE	REVISION	BY
09-21-98	09-21-98	09-21-98	VSL				CHK

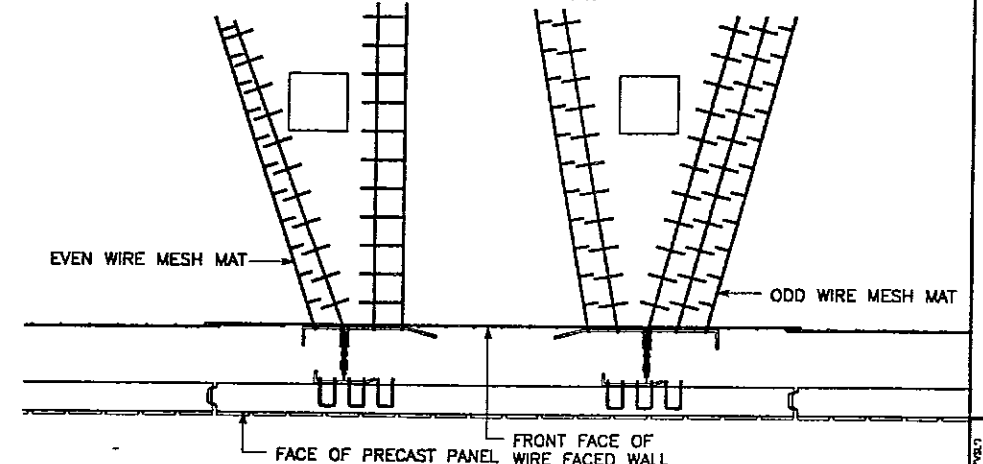
VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 786-6872
 Fax: (919) 781-4959

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

OBSTRUCTION SHALL BE CONSTRUCTED BEFORE WALL INSTALLATION OR, VOID FORMER SHALL BE INSTALLED DURING BACKFILL PLACEMENT.

VOID FORMER NOT SUPPLIED BY VSL CORPORATION.

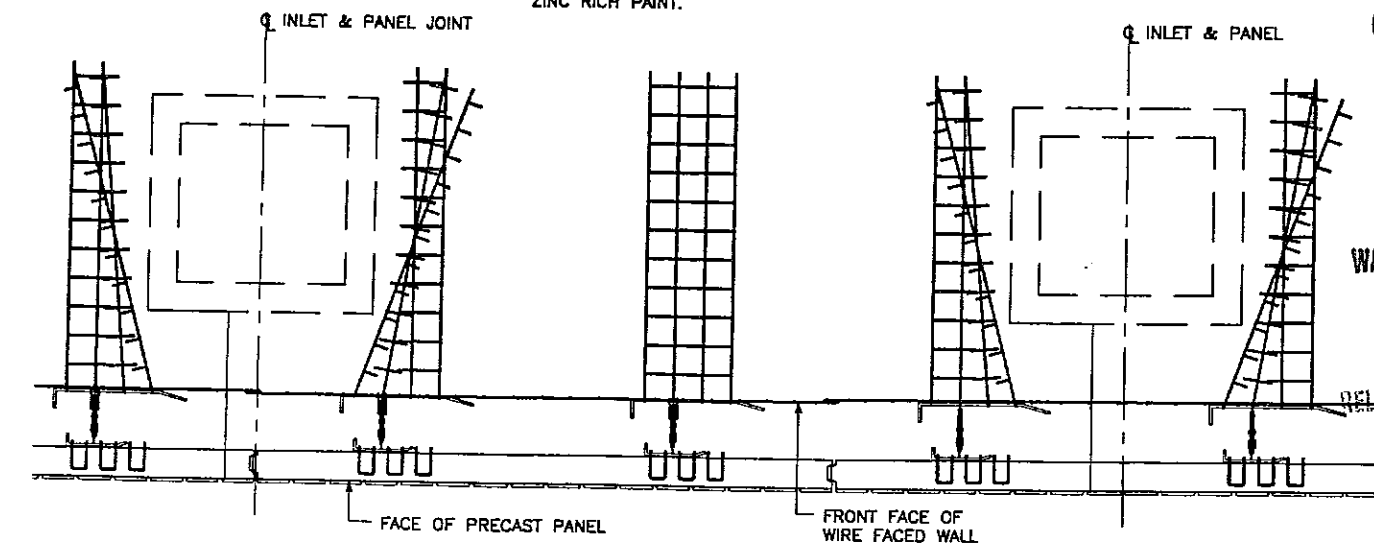
FIELD CUT & SKEW SOIL REINFORCING AROUND OBSTRUCTION. DAMAGED GALVANIZING SHALL BE COATED WITH ZINC RICH PAINT.



INLET/MANHOLE SHALL BE CENTERED ON CENTERLINE OF CLOSEST OBSTRUCTED PANEL JOINT OR CENTERLINE OF PANEL.

SEE WALL ELEVATIONS FOR LOCATION.

FIELD CUT & SKEW SOIL REINFORCING TO AVOID INLET. DAMAGED GALVANIZING SHALL BE COATED WITH ZINC RICH PAINT.

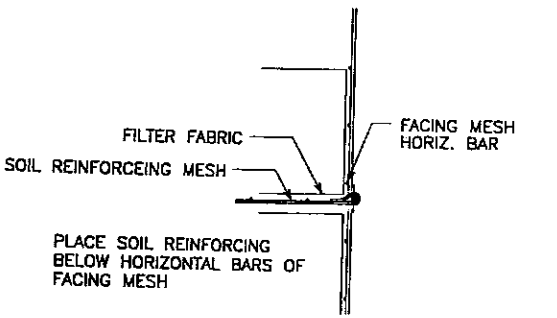


101 INLET OBSTRUCTION DETAIL
 SCALE: 1:20 (FULL SIZE)
 SCALE: 1:40 (HALF SIZE)

60 OBSTRUCTION (VERTICAL)
 SCALE: 1:20 (FULL SIZE)
 SCALE: 1:40 (HALF SIZE)

DURING PRIMARY SETTLEMENT, DO NOT FILL IN THIS ZONE WITH BACKFILL MATERIAL. THE VERY BOTTOM OF THE WIRE FACED WALL MUST BE LEFT EXPOSED DURING PRIMARY SETTLEMENT.

SECTION AT WIRE FACE PANEL TYPE "W" INTERMEDIATE SOIL REINFORCEMENT



DETAIL AT INTERMEDIATE SOIL REINFORCEMENT

WASATCH CONSTRUCTORS
 JUN 17 1999
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RETAINED EARTH™ WALLS
 CORRIDOR STANDARD PLAN
 INTERMEDIATE SOIL REINFORCEMENT

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

METRIC

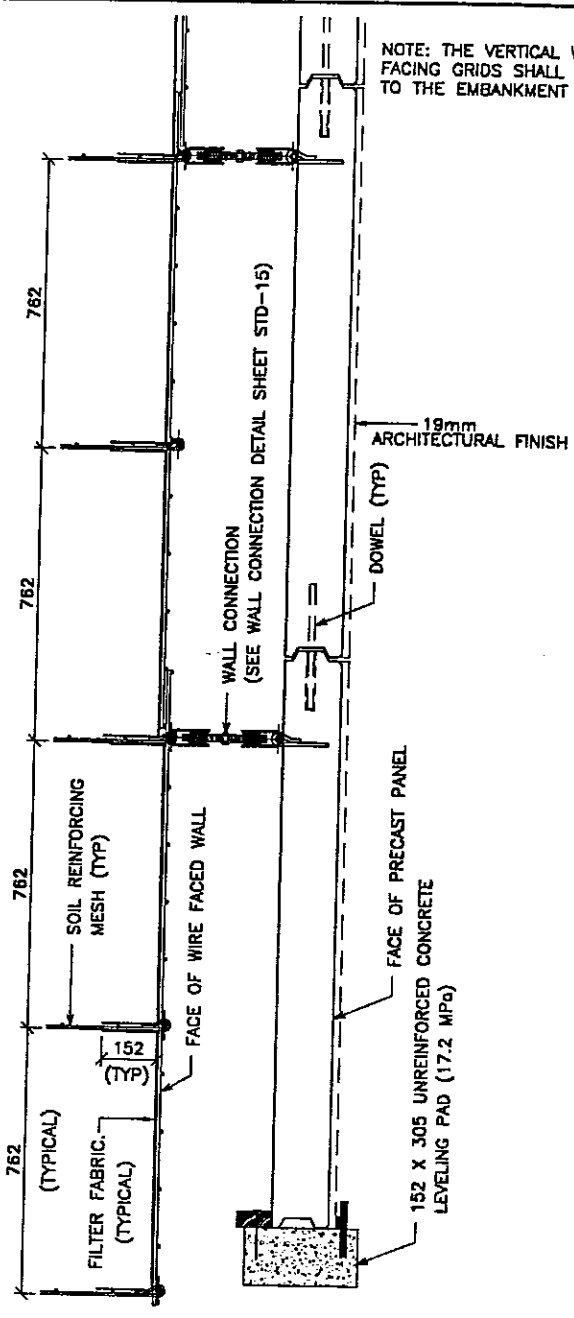
PROFESSIONAL ENGINEER
 No. 2341796
 JOHN A. NICHOLSON, JR.
 5/20/99
 STATE OF UTAH

DWG. NO.	CS-317
JOB NO.	239-0007
SHT. NO.	STD-17

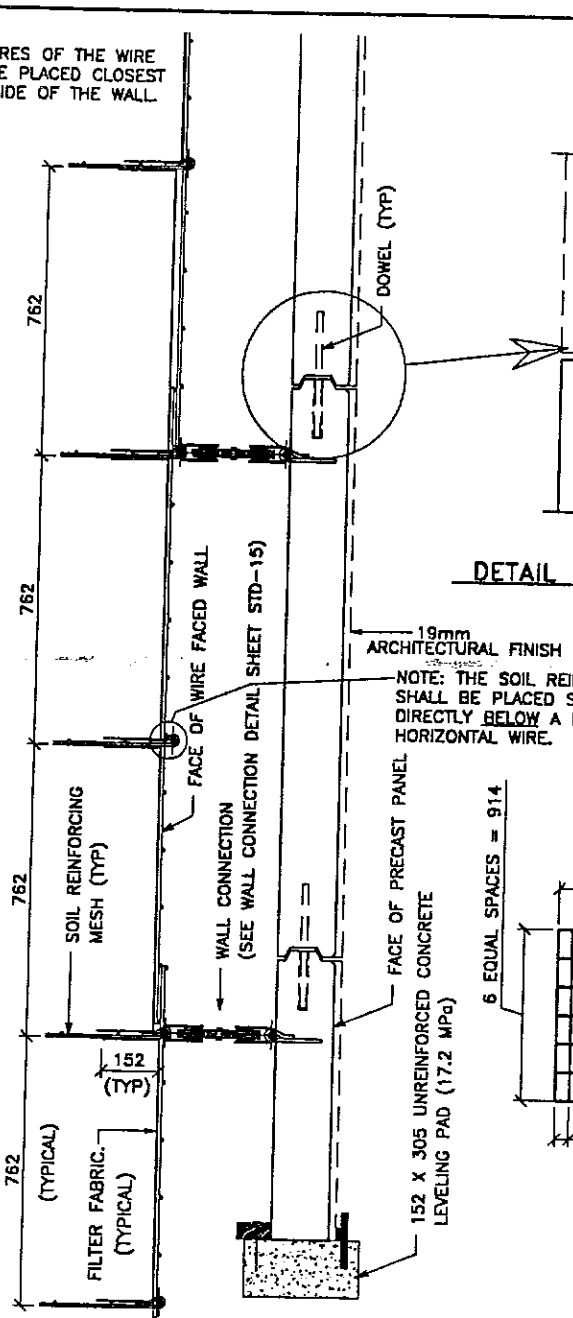
CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY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

FINAL PLOT 10-1-98

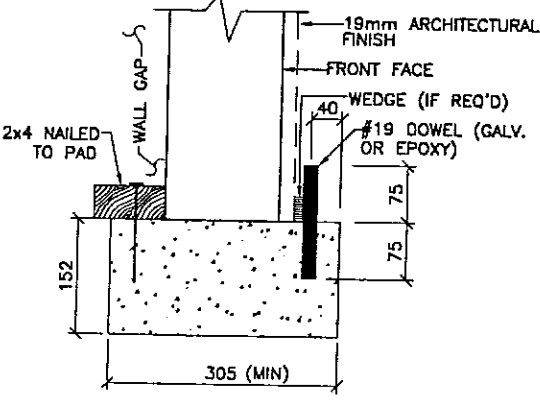
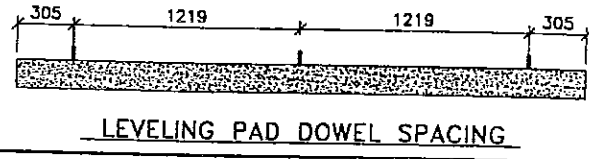
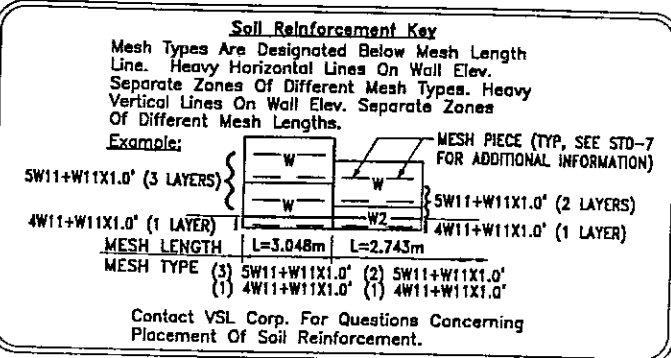
H:\RE_EARTH\PROJECT\239-0007\STDS.V



SECTION AT WIRE FACE PANEL TYPE "W"

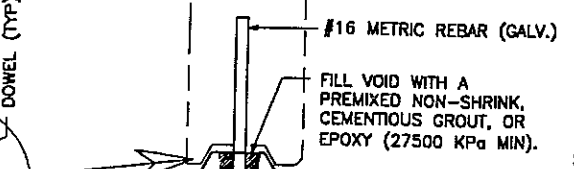


SECTION AT WIREFACE PANEL TYPE "W2"



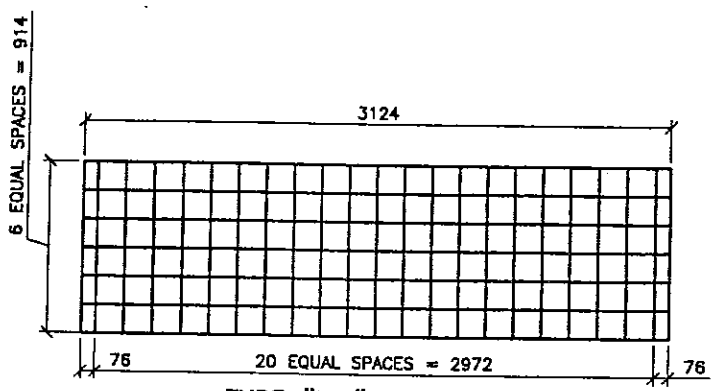
2-STAGE LEVELING PAD DETAIL
NOTE: AT NO TIME SHALL THE ELEVATION OF THE BACKFILL IN FRONT OF THE WALL BE AT A HIGHER ELEVATION THAN THE BACKFILL IN THE WALL GAP.

NOTE: THE VERTICAL WIRES OF THE WIRE FACING GRIDS SHALL BE PLACED CLOSEST TO THE EMBANKMENT SIDE OF THE WALL.

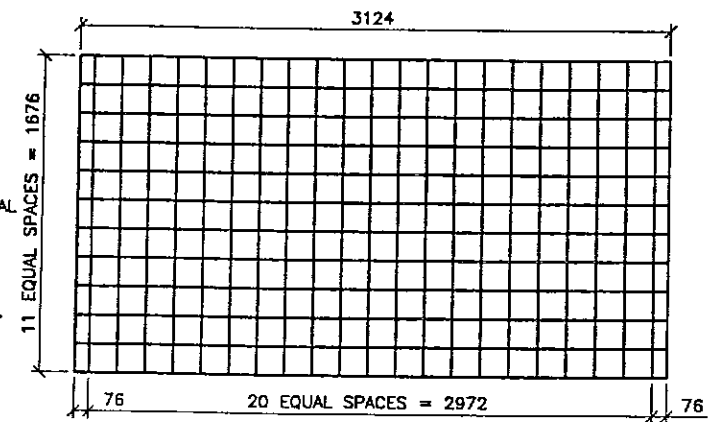


DETAIL AT DOWEL VOID

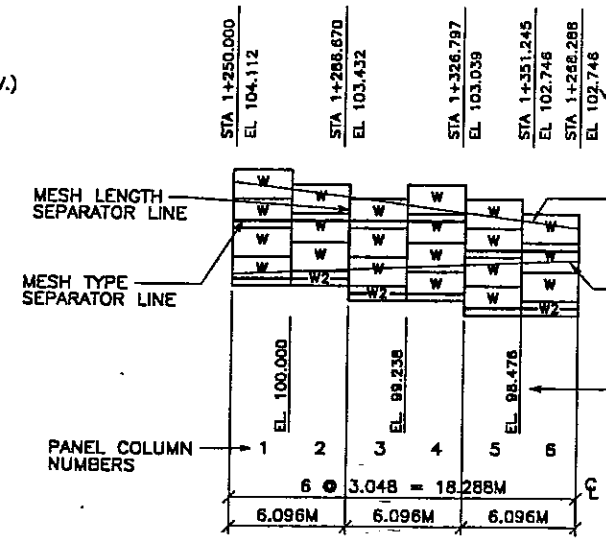
NOTE: THE SOIL REINFORCING MESH SHALL BE PLACED SO THAT IT IS DIRECTLY BELOW A FACING GRID HORIZONTAL WIRE.



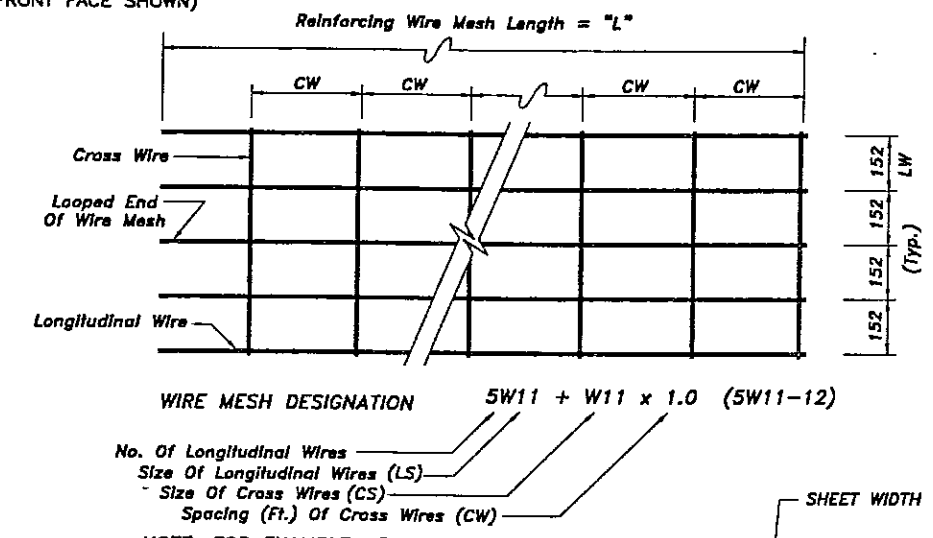
TYPE "W2" WIRE FACE BAR LAYOUT (W11 x W11)



TYPE "W" WIRE FACE BAR LAYOUT (W11 x W11)



WIRE FACED WALL ELEVATION KEY (FRONT FACE SHOWN)

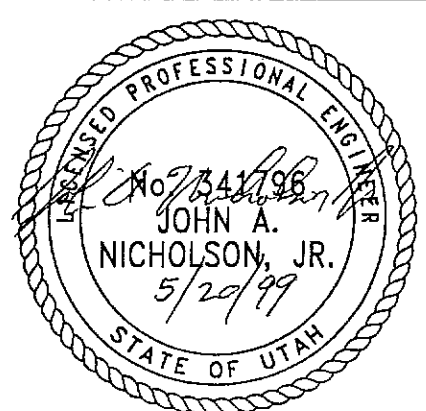


REINFORCING MESH DESIGNATION

NOTE: FOR EXAMPLE ABOVE, EQUIVALENT WIRE MESH DESIGNATION = 6 X 12-W11XW11-24" X "L" (LW) (CW)(LS) (CS)
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.

WASATCH CONSTRUCTORS
JUN 17 1999
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METRIC



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△	5-21-99	ISSUED AS CSP

DES. 12-19-97 MM

DEN. 12-19-97 DDD

CHK. 12-19-97 MM

NO. DATE

REVISION

BY CHK

VSL CORPORATION
2800 Plaza Place, Suite 200
Raleigh, NC 27602
Telephone: (919) 781-4272
Fax: (919) 781-4989

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

RETAINED EARTH™ WALLS
CORRIDOR STANDARD PLAN
2 STAGE - TYPICAL DETAILS

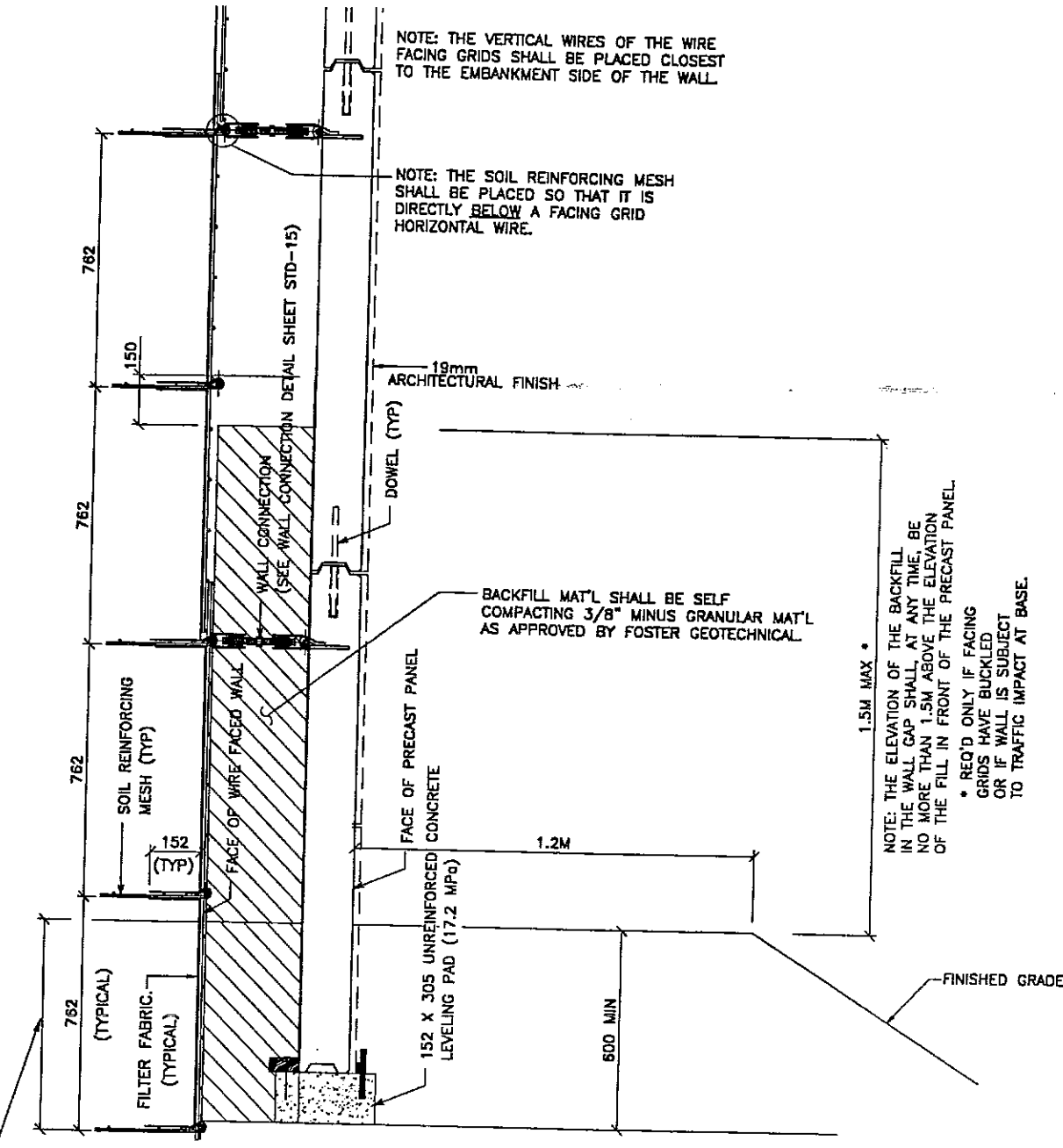
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO. CS-319

JOB NO. 239-0007

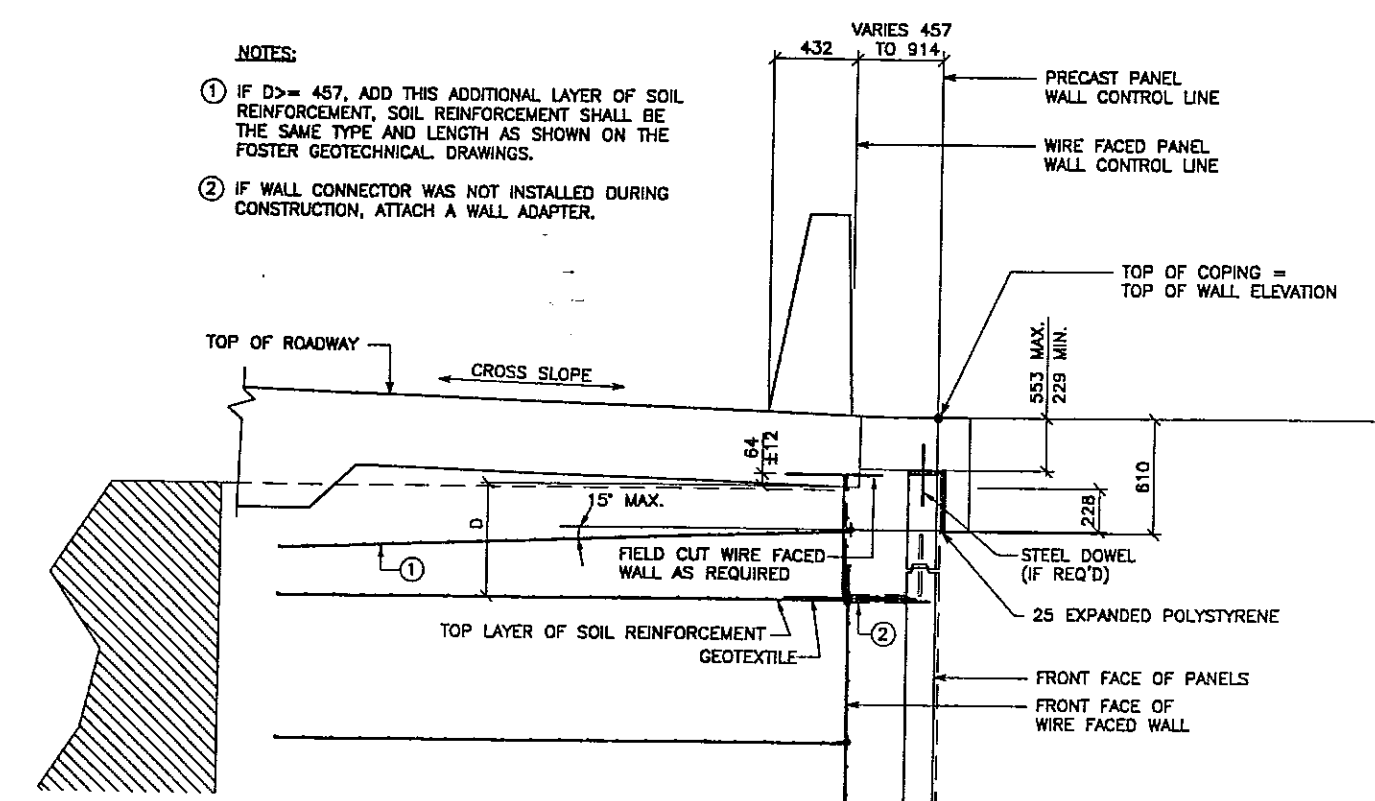
SHT. NO. STD-19

FINAL PLOT 10-1-98 H:\RE_EARTH\PROJECT\239-0007\STDS\STD-20 ENCE (X-UTAH.DWG)



WALL GAP BACKFILL LIMITS

NOTE: PLACE FILTER FABRIC AS SUPPLIED BY FOSTER GEOTECHNICAL BEHIND ALL PRECAST PANEL JOINTS THAT ARE BACKFILLED. EXTEND THE FABRIC 150mm ABOVE THE TOP OF THE BACKFILL IN THE WALL GAP. ADHERE THE FABRIC TO THE BACK OF THE PANEL WITH ADHESIVE AS SUPPLIED BY FOSTER GEOTECHNICAL.



ADDITIONAL SOIL REINFORCEMENT AT TOP OF WALL DETAIL

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09-21-98	JN	JN				CHK
09-21-98	JN	JN				
09-21-98	JN	JN				

VSL CORPORATION
 2840 Pico Plaza, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8272
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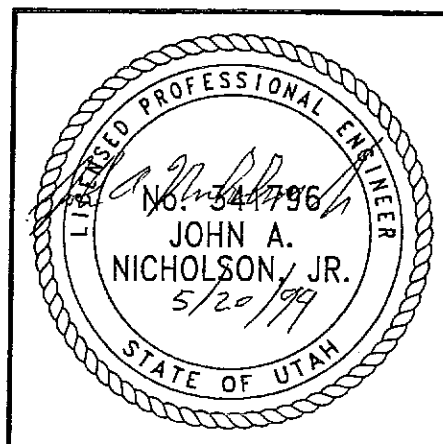
RETAINED EARTH™ WALLS
 CORRIDOR STANDARD PLAN
 2 STAGE - TYPICAL DETAILS
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

WASATCH CONSTRUCTORS

JUN 17 1999

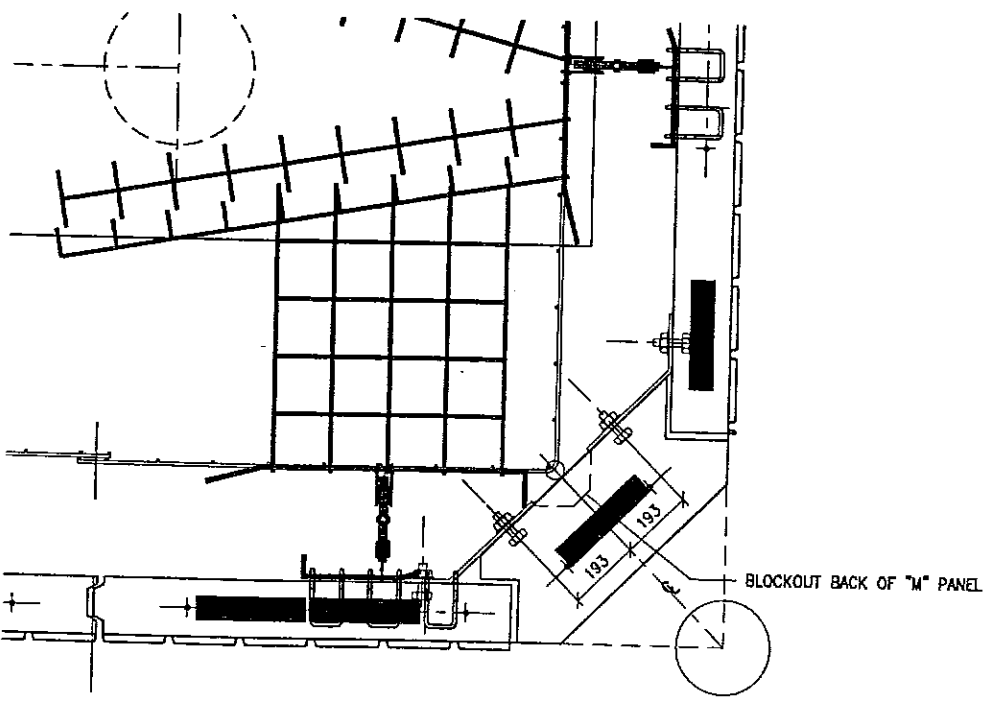
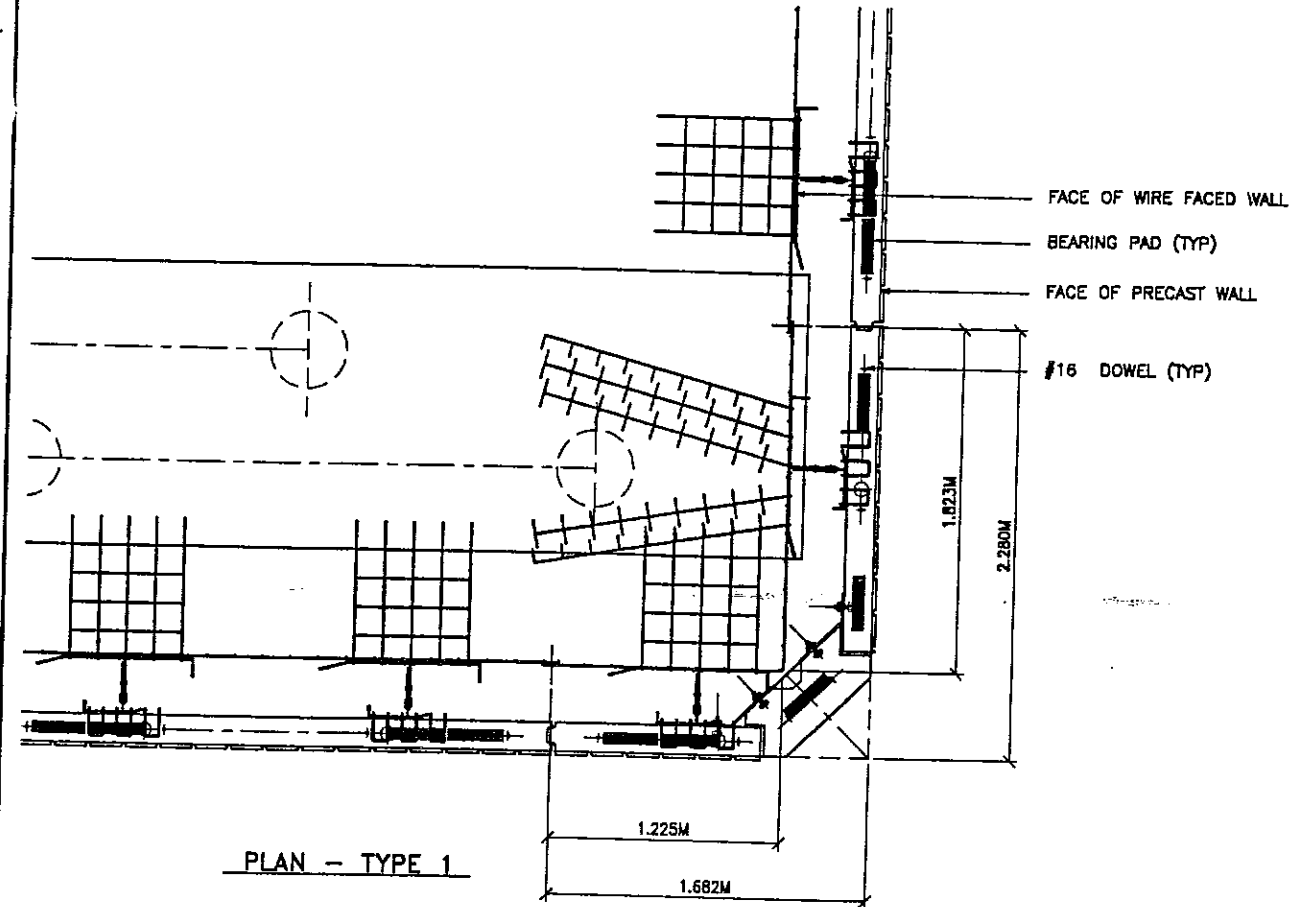
RELEASED FOR CONSTRUCTION

METRIC



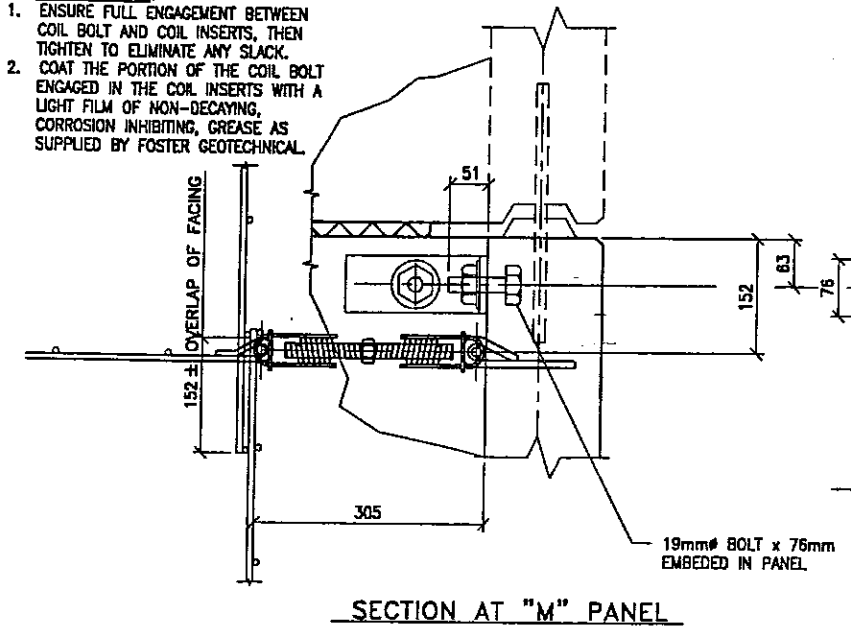
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DWG. NO.	CS-320
JOB NO.	239-0007
SHT. NO.	STD-20

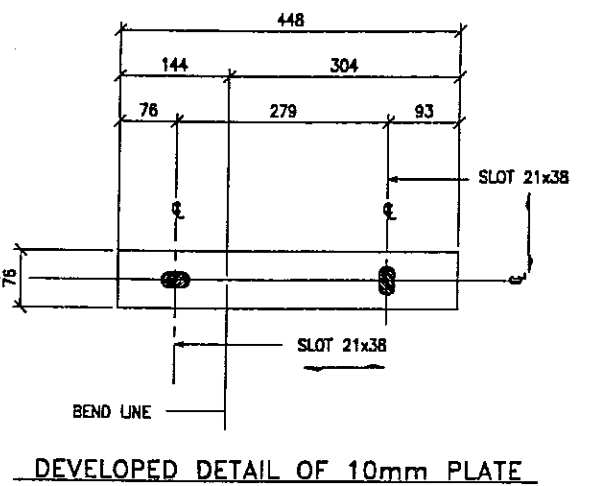


PROPOSED CONNECTION AT CORNER - 2 STAGE WALLS

- CONTRACTOR NOTES:**
1. ENSURE FULL ENGAGEMENT BETWEEN COIL BOLT AND COIL INSERTS, THEN TIGHTEN TO ELIMINATE ANY SLACK.
 2. COAT THE PORTION OF THE COIL BOLT ENGAGED IN THE COIL INSERTS WITH A LIGHT FILM OF NON-DECAYING, CORROSION INHIBITING, GREASE AS SUPPLIED BY FOSTER GEOTECHNICAL.



SECTION AT "M" PANEL



DEVELOPED DETAIL OF 10mm PLATE

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

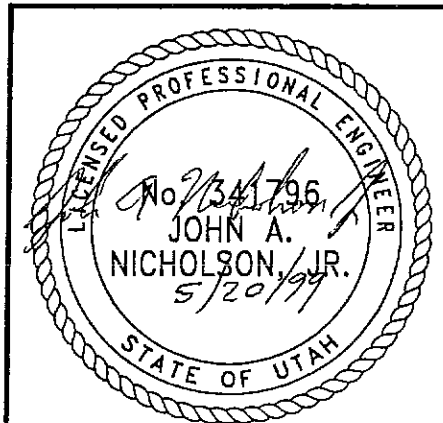
VSL Corporation hereby certifies that the design and construction of the project described herein is in accordance with the design and construction specifications set forth on the plans. The use of the retained earth mass, methods of construction, and quality of prefabricated materials conform to the manufacturer's specification. VSL Corporation is not responsible for the design or construction of the project, or for any other use of the plans. VSL Corporation is not liable for any damage or injury resulting from the use of the plans.

RETAINED EARTH™ WALLS
 CORRIDOR STANDARD PLAN
 CONNECTION AT CORNER DETAILS @ STAGE CONST.
 UTAH I-15 INTERCHANGE
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

WASATCH CONSTRUCTORS

JUN 17 1999

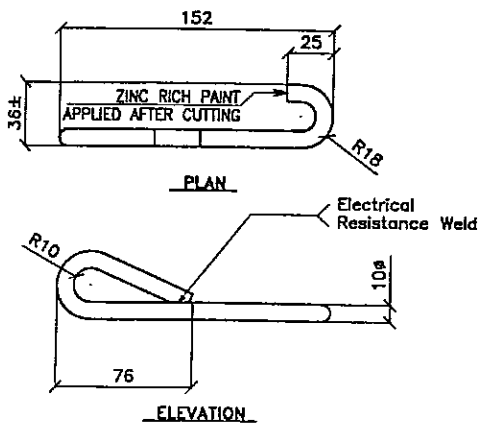
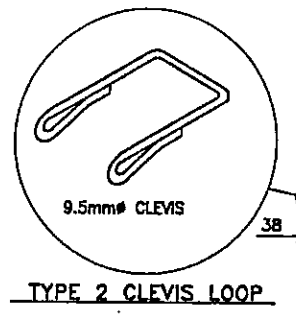
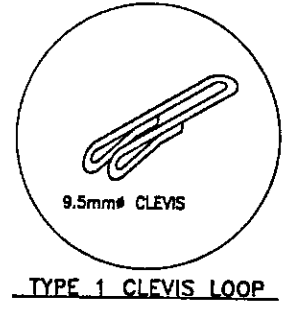
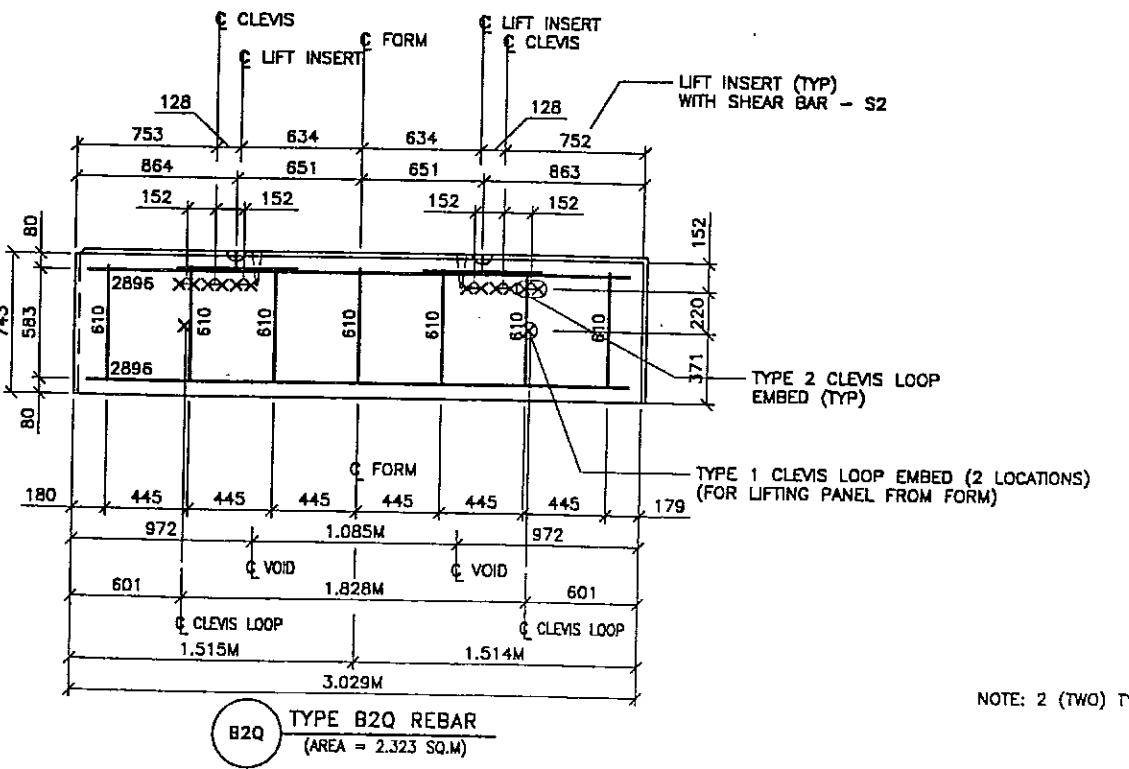
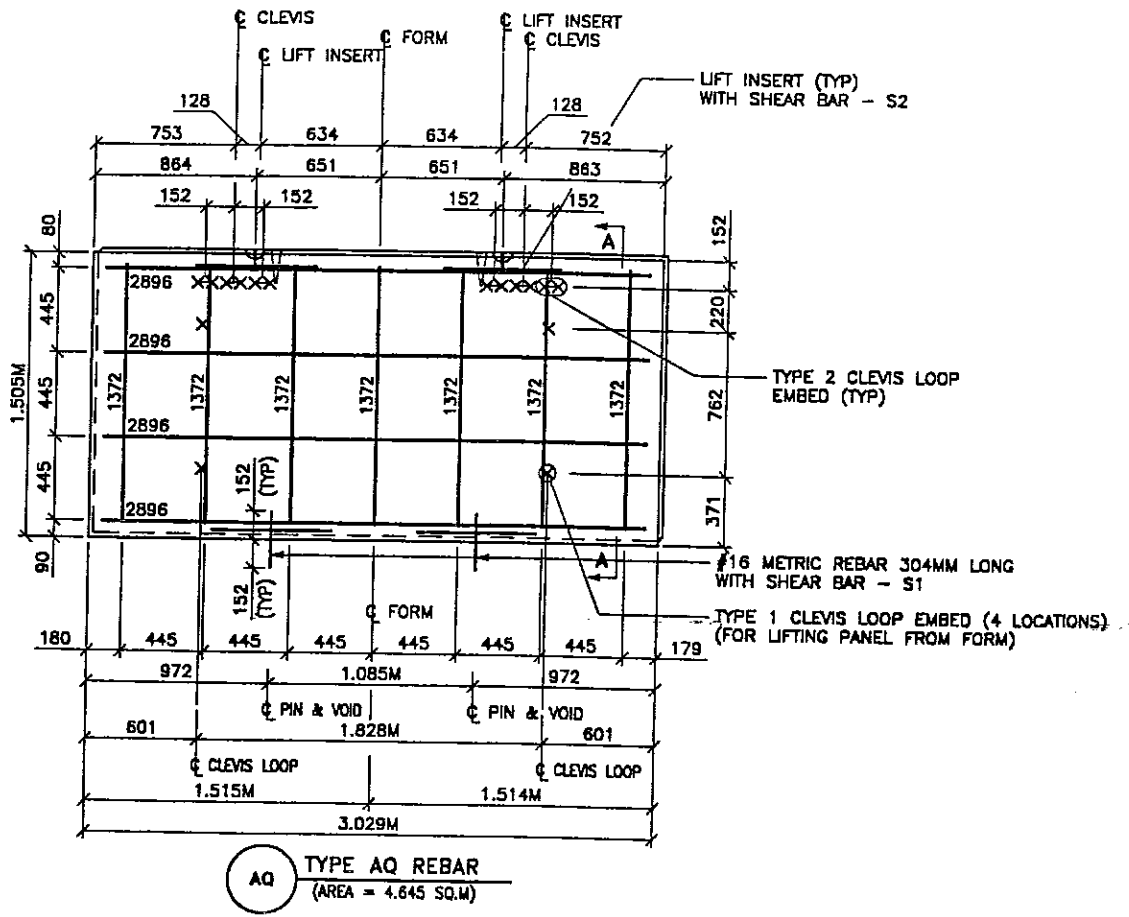
RELEASED FOR CONSTRUCTION METRIC



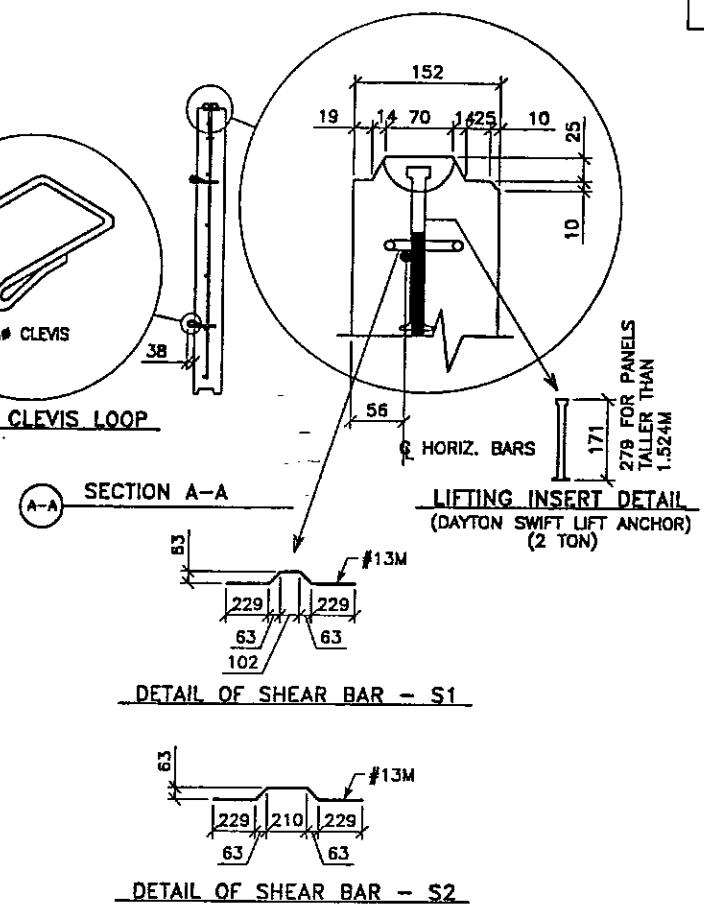
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DWG. NO.	CS-322
JOB NO.	239-0007
SHT. NO.	STD-22

FINAL PLOT 10-1-98 H:\RE_EARTH\PROJECT\239-0007\STD\STP_23 X NCE (X-UTAH.DWG)



NOTE: 2 (TWO) TYPE 3 CLEVIS MAY BE SUBSTITUTED FOR 1 (ONE) TYPE 2 CLEVIS.
(TYPE 3 CLEVIS IS A CUT TYPE 1 CLEVIS)



- 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: 2896 IS A #13 BAR 2896 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 9.5mm# 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.

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.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	9-30-98	RELEASE FOR CONST.
▲	5-21-99	ISSUED AS CSP

DES.	12-19-97	MM	NO.	DATE	REVISION	CHK
DRN.	12-19-97	DDO				
CHK.	12-19-97	MM				

VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27617 TEL: 677
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ATLANTA, GA / DALLAS, TX / BALDWIN, NC (CORPORATE OFFICE)
MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

VSL

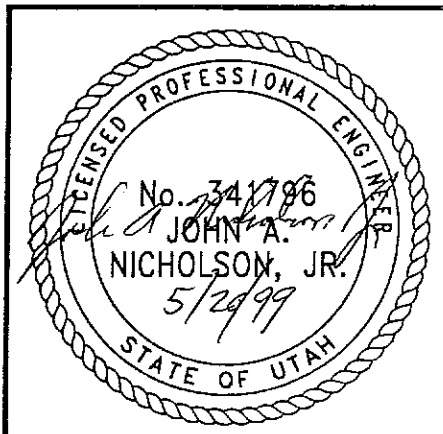
RETAINED EARTH™ WALLS
CORRIDOR STANDARD PLAN
2-STAGE PANEL REINFORCEMENT
UTAH I-15 INTERCHANGE
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

NO. 341786
JOHN A. NICHOLSON, JR.
5/29/99

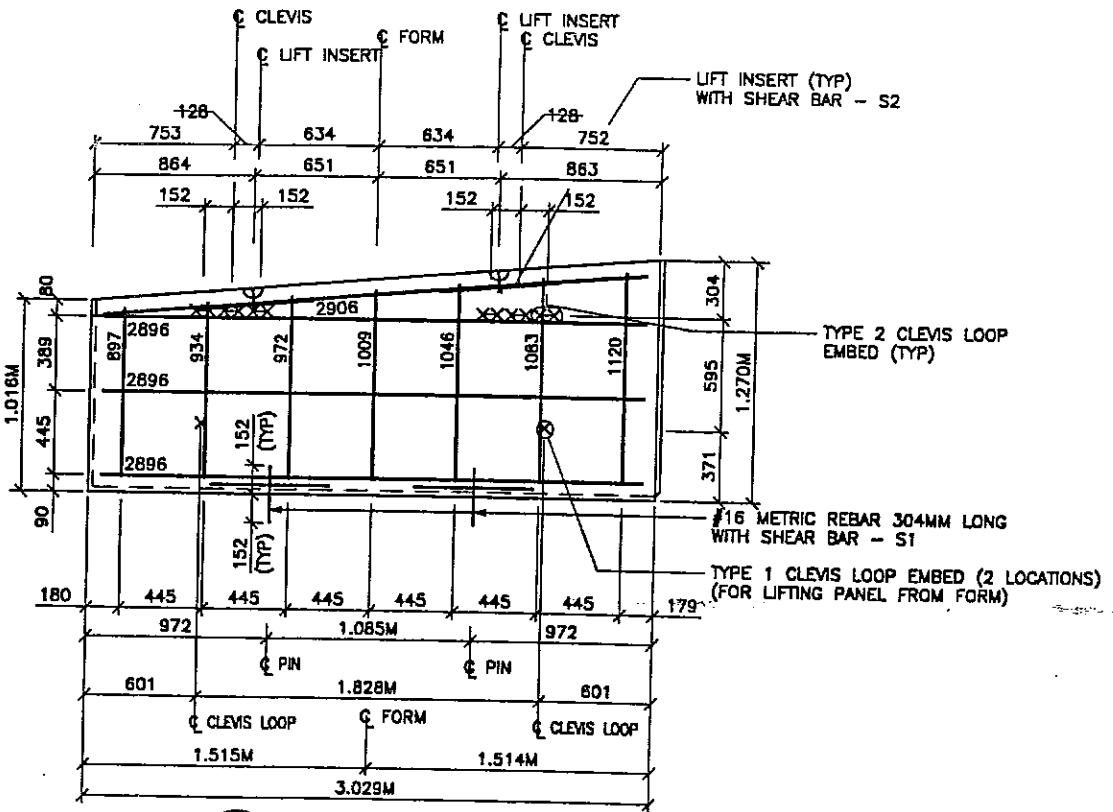
STATE OF UTAH
LICENSED PROFESSIONAL ENGINEER

DWG. NO. CS-323
JOB NO. 239-0007
SHT. NO. STD-23

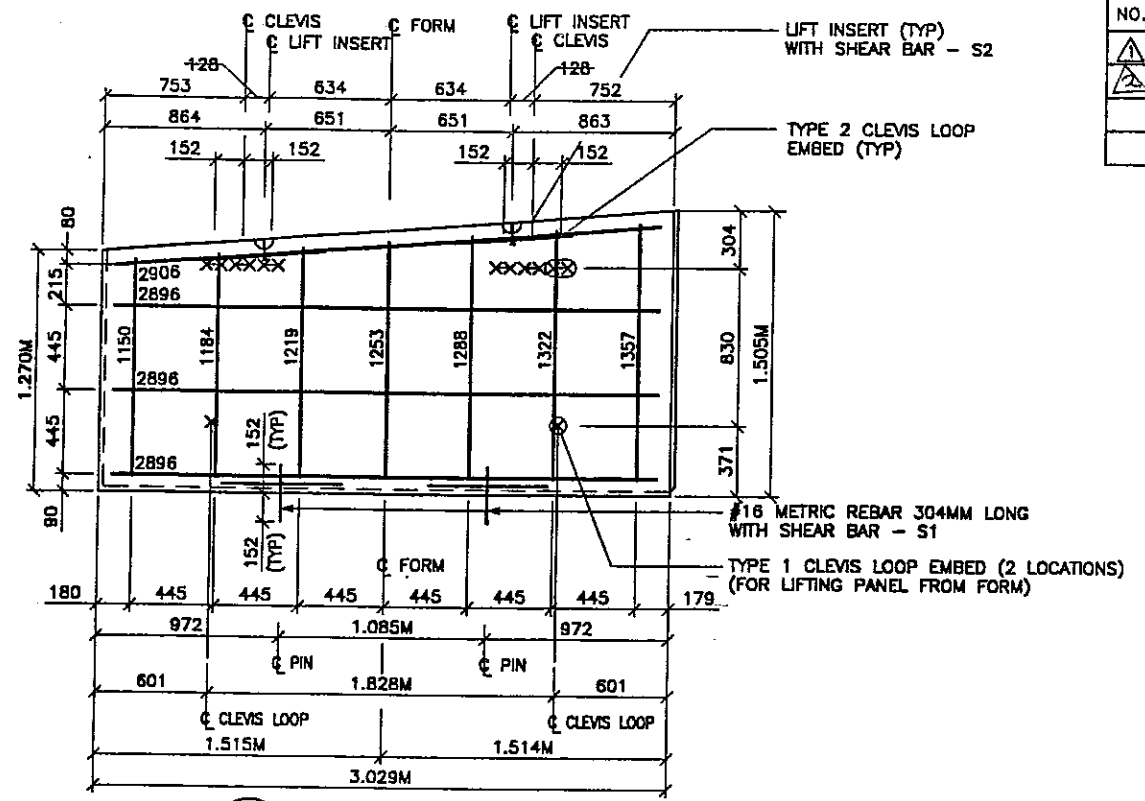
WASATCH CONSTRUCTORS
JUN 17 1999
RELEASED FOR CONSTRUCTION



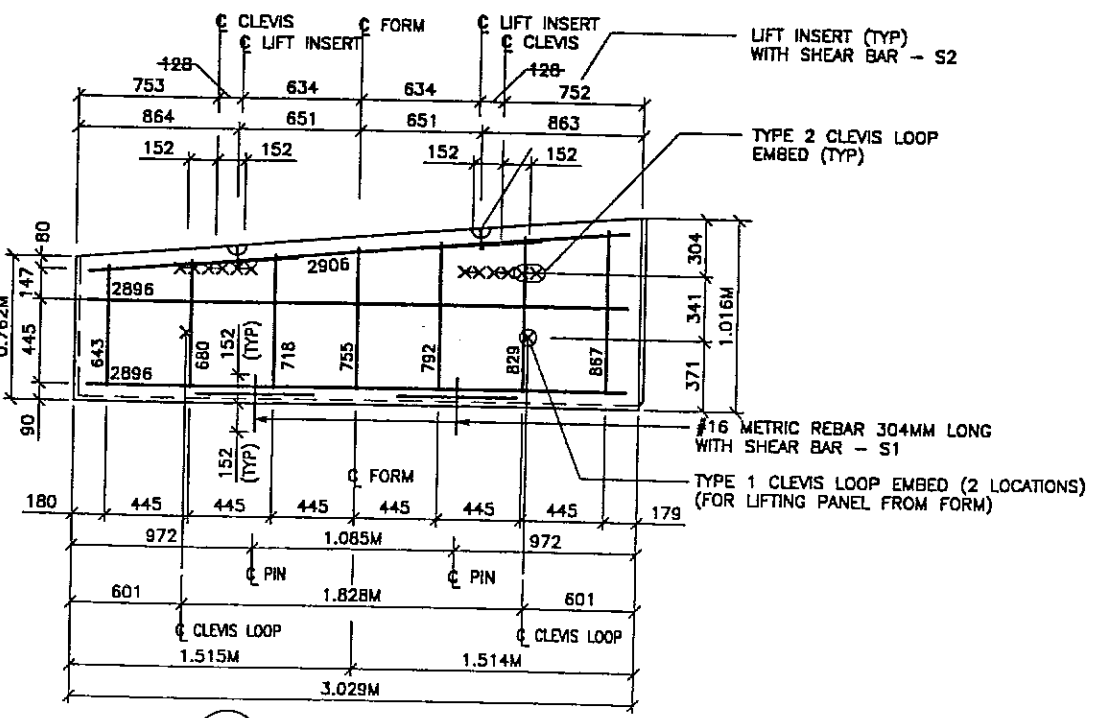
ENCE (X-UTAH.DWG)



G2RQ TYPE G2RQ REBAR
(TYPE G2LQ OPPOSITE HAND)
(AREA = 3.483 SQ.M)



G1RQ TYPE G1RQ REBAR
(TYPE G1LQ OPPOSITE HAND)
(AREA = 4.258 SQ.M)



G3RQ TYPE G3RQ REBAR
(TYPE G3LQ OPPOSITE HAND)
(AREA = 2.710 SQ.M)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-28-99	RELEASE FOR CONSTRUCTION
2	5-21-99	ISSUED AS CSP

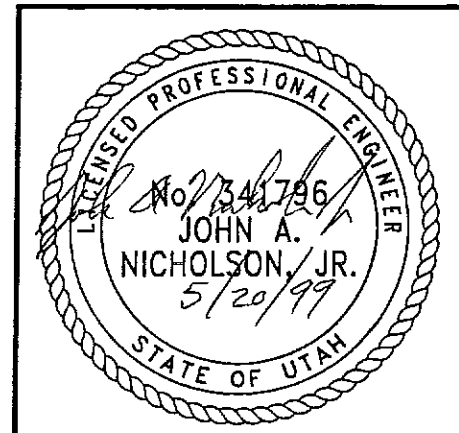
DES.	DRN.	CHK.	RETAINED EARTH™
10-09-98	10-09-98	10-09-98	YES

VSL CORPORATION
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VSL Corporation (VSL) is a joint venture between VSL Industries, Inc. and VSL Corp. VSL Industries, Inc. is a wholly owned subsidiary of VSL Corp. VSL Corp. is a public company listed on the New York Stock Exchange under the symbol VSL. VSL Corp. is a leading provider of innovative construction solutions for the infrastructure and transportation sectors. VSL Corp. is committed to providing high-quality, cost-effective solutions for its clients. VSL Corp. is a member of the International Brotherhood of Teamsters.

WASATCH CONSTRUCTORS
JUN 17 1999
RELEASED FOR CONSTRUCTION



RETAINED EARTH™ WALLS CORRIDOR STANDARD PLANS 2-STAGE PANEL REINFORCEMENT UTAH I-15 INTERCHANGE SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.
DWG. NO. CS-326
JOB NO. 239-0007
SHT. NO. RE-26

METRIC

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C:\MSE-WALLS\STANDARDS\STD-28.DWG
FINAL PLOT 01-28-99