

# UTAH

## DEPARTMENT OF TRANSPORTATION

### PLANS OF PROPOSED LOCAL ROAD FEDERAL AID PROJECT

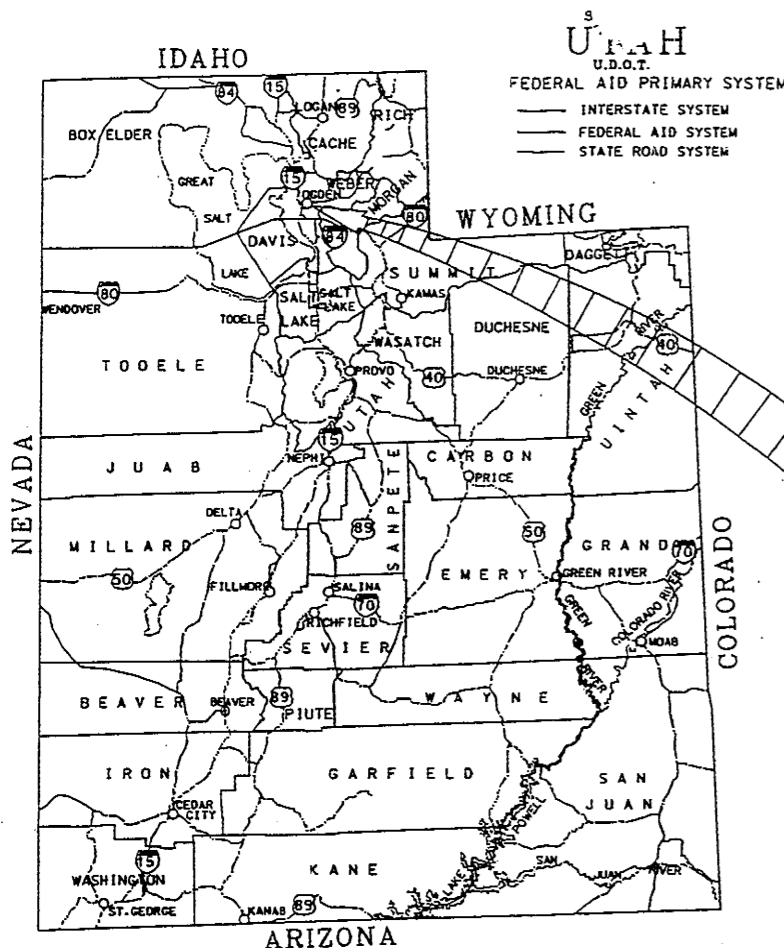
#### WALL, 30TH & 31ST IN OGDEN WEBER COUNTY

#### UDOT PROJECT NOS.

\*STP-0079(1)2 (CHANGED TO SP-0079(3)3)  
 STP-0204(2)1 (CHANGED TO SP-0204(2)1)  
 \*SP-0079(3)3

STATE	PROJECT No.	SHEET NO.
UTAH	*STP-0079(1)2	1
UTAH	STP-0204(2)1	1
UTAH	*SP-0079(3)3	1

METRIC CSI



\*STP-0079(1)2  
 STP-0204(2)1  
 \*SP-0079(3)3

RECONSTRUCTION, GRADING,  
 DRAINAGE & WIDENING LENGTH:  
 30TH STREET = 3.144 km  
 31ST STREET = 1.143 km  
 WALL AVENUE = 2.415 km  
 TOTAL LENGTH = 6.702 km

ENTIRE PROJECT  
 KNOWN AS:  
 SP-0079(3)3

STA 1+523.669  
 END WB SR-79  
 STA 2+000.000  
 BEGIN 30TH-A

M.P. 2.32  
 STA 0+990.725  
 BEGIN WB SR-79  
 BEGIN PROJECT  
 30TH STREET

M.P. 2.22  
 STA 12+420.000  
 END PROJECT  
 WALL AVENUE

STA 2+242.705  
 END 30TH-A  
 STA 3+000.000  
 BEGIN 30TH-B

STA 3+468.121  
 END 30TH-B  
 STA 4+000.000  
 BEGIN 30TH-C

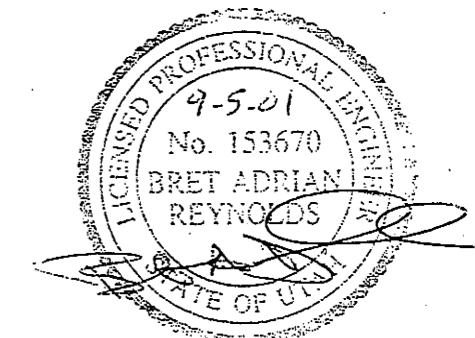
M.P. 4.13  
 STA 5+900.000  
 END 30TH-C  
 END PROJECT  
 30TH STREET

M.P. 4.89  
 STA 8+000.000  
 BEGIN EB SR-79  
 BEGIN PROJECT  
 EB SR-79

STA 8+393.044  
 END EB SR-79  
 STA 9+000.000  
 BEGIN 31ST

M.P. 0.74  
 STA 10+005.490  
 BEGIN PROJECT  
 WALL AVENUE

M.P. 4.13  
 STA 9+750.000  
 END 31ST  
 END PROJECT  
 31ST STREET



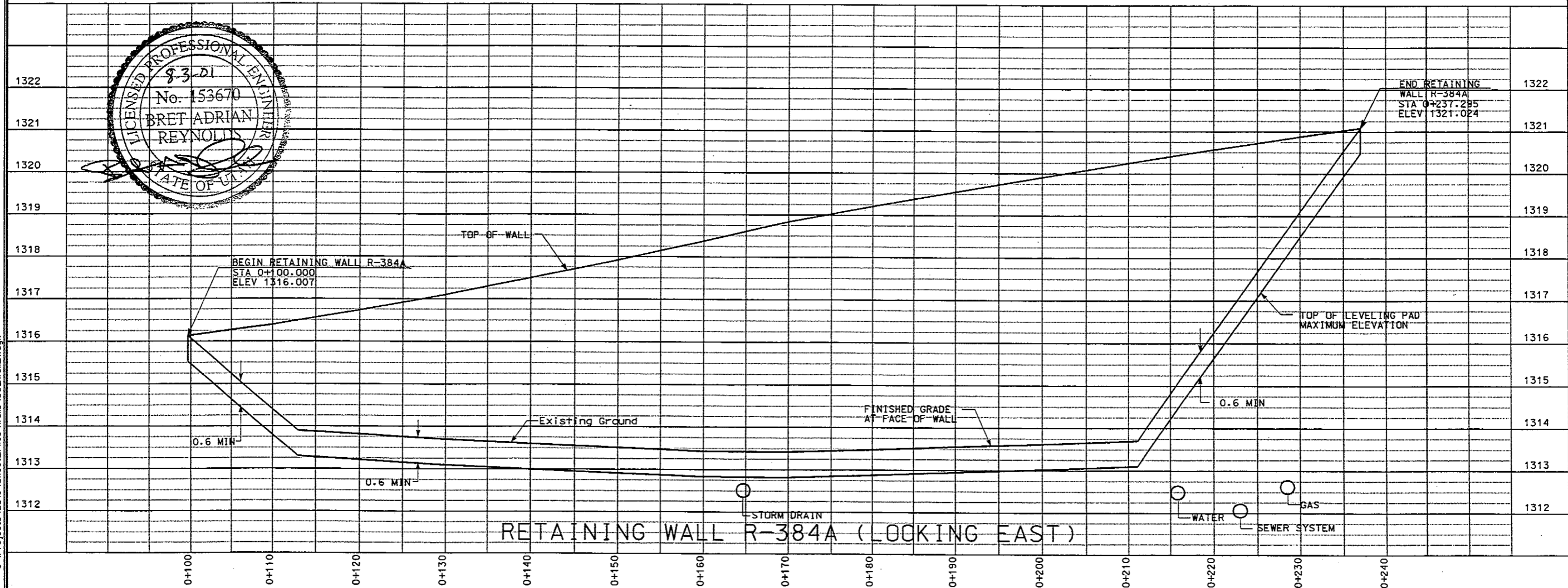
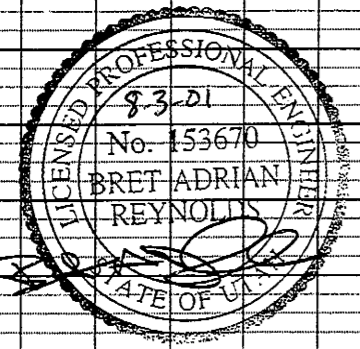
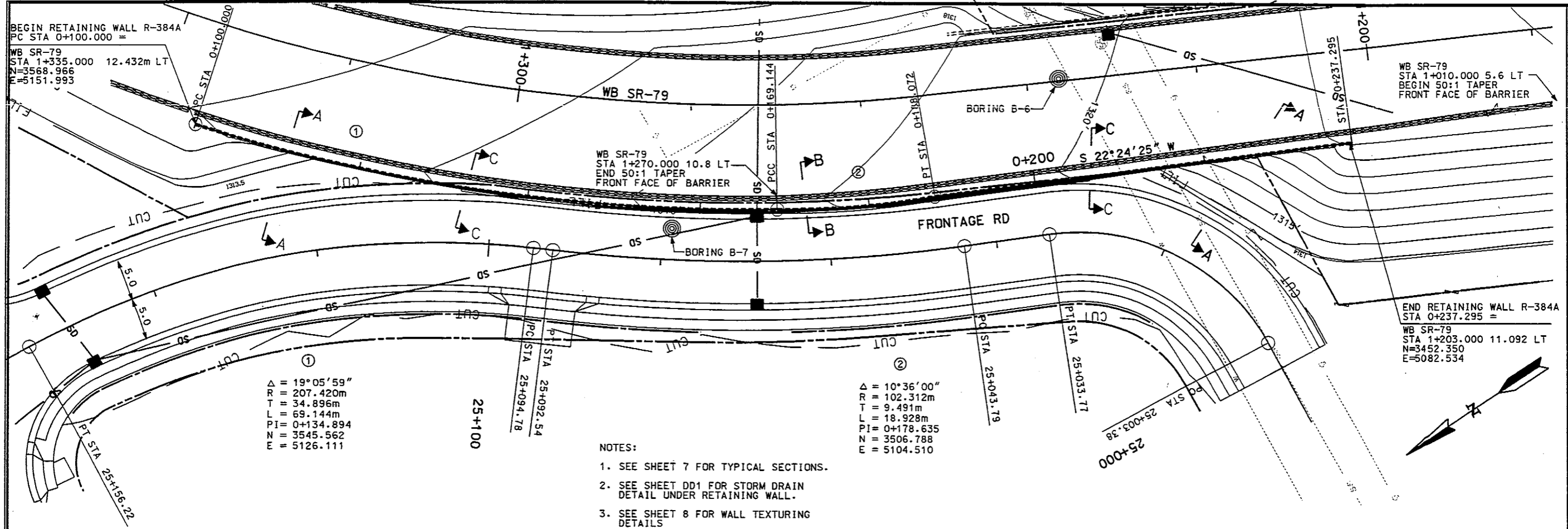
WASHINGTON INFRASTRUCTURE

*Ab Jol*  
 UDOT REGION APPROVAL

OGDEN CITY

ALL DIMENSIONS ARE IN METERS  
 UNLESS OTHERWISE NOTED.

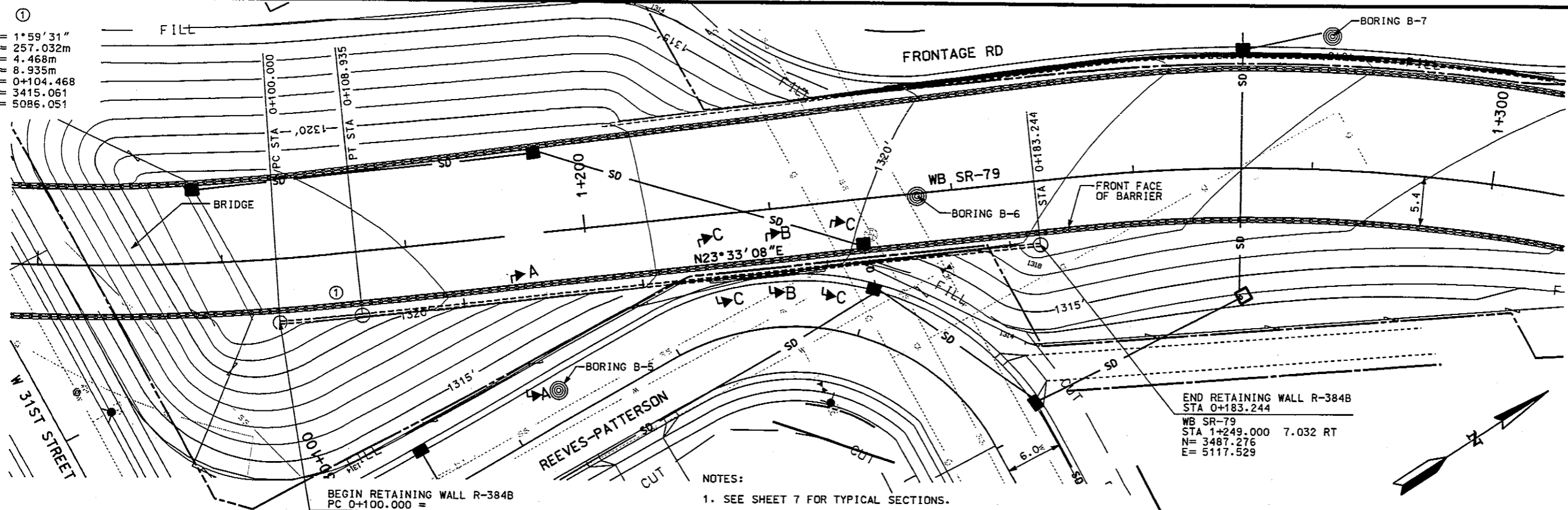
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 05-SEP-2001  
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UTAH DEPARTMENT OF TRANSPORTATION		DESIGN	DC	08/01/00	CHECK	CD	09/01/00
SALT LAKE CITY, UTAH		DRAWN	DC	08/01/00	CHECK	CD	09/01/00
STRUCTURES DIVISION		DATE	08/01/00	DESIGN ENGR.	DATE	08/01/00	QUANT.
WALL, 30TH & 31ST IN OGDEN		APPROVAL	RECORDED	DATE	APPROVED	DATE	ROOT BROCK 8/28/00
RETAINING WALL WB SR-79		DESIGN ENGR. <i>Chris Olsen</i> DATE <i>8/1/00</i> APPROVED <i>[Signature]</i>					
SITUATION AND LAYOUT R-384A		PROJECT NUMBER *STP-0079(1)2 STP-0204(2)1 *SP-0079(1)3					
WEBER COUNTY		R-384					
DRG. NO.		SHT. 1 OF 8					

16:28 02-AUG-2001 J:\Projects\2316\Sheet\_Files\wall\_30\_wall\_1.dgn

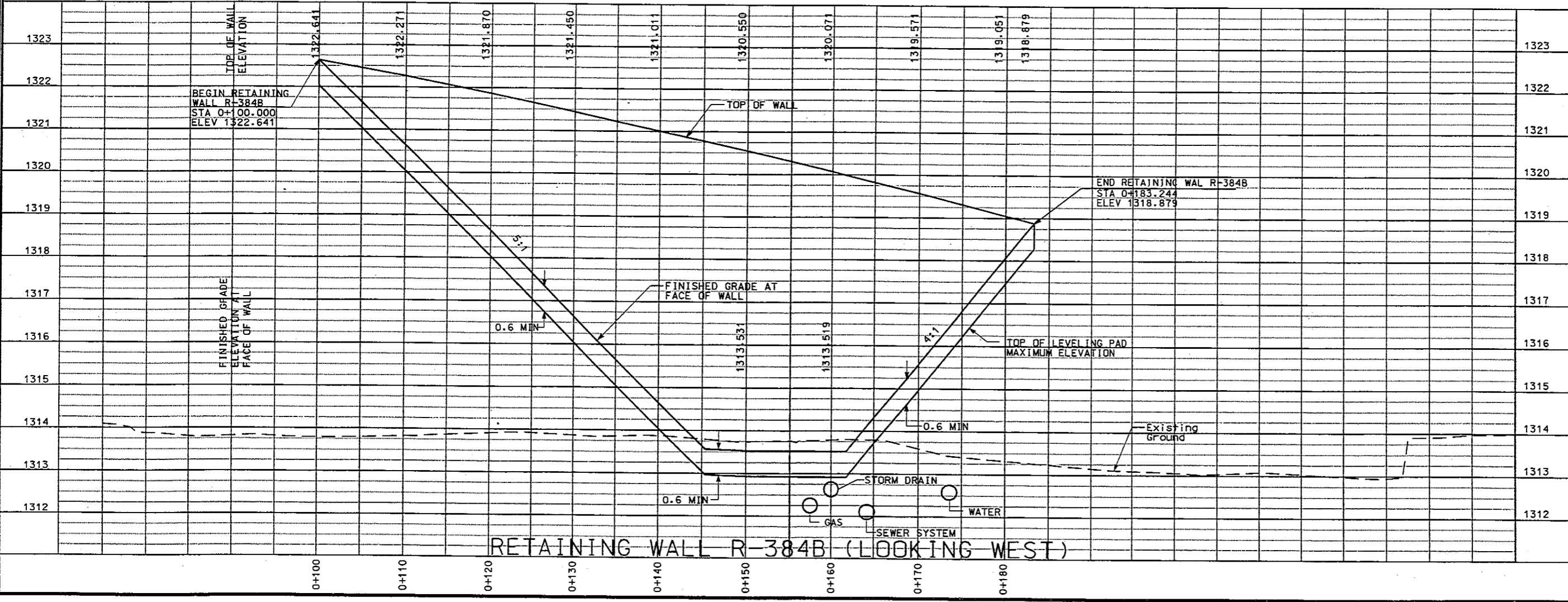
①  
 $\Delta = 1^{\circ}59'31''$   
 $R = 257.032m$   
 $T = 4.468m$   
 $L = 8.935m$   
 $PI = 0+104.468$   
 $N = 3415.061$   
 $E = 5086.051$



BEGIN RETAINING WALL R-384B  
 PC 0+100.000 =  
 WB SR-79  
 STA 1+166.000 7.032 RT  
 $N = 3411.030$   
 $E = 5084.124$

END RETAINING WALL R-384B  
 STA 0+183.244  
 WB SR-79  
 STA 1+249.000 7.032 RT  
 $N = 3487.276$   
 $E = 5117.529$

- NOTES:
1. SEE SHEET 7 FOR TYPICAL SECTIONS.
  2. SEE SHEET DD1 FOR STORM DRAIN DETAIL UNDER RETAINING WALL.
  3. SEE SHEET 8 FOR WALL TEXTURING DETAILS



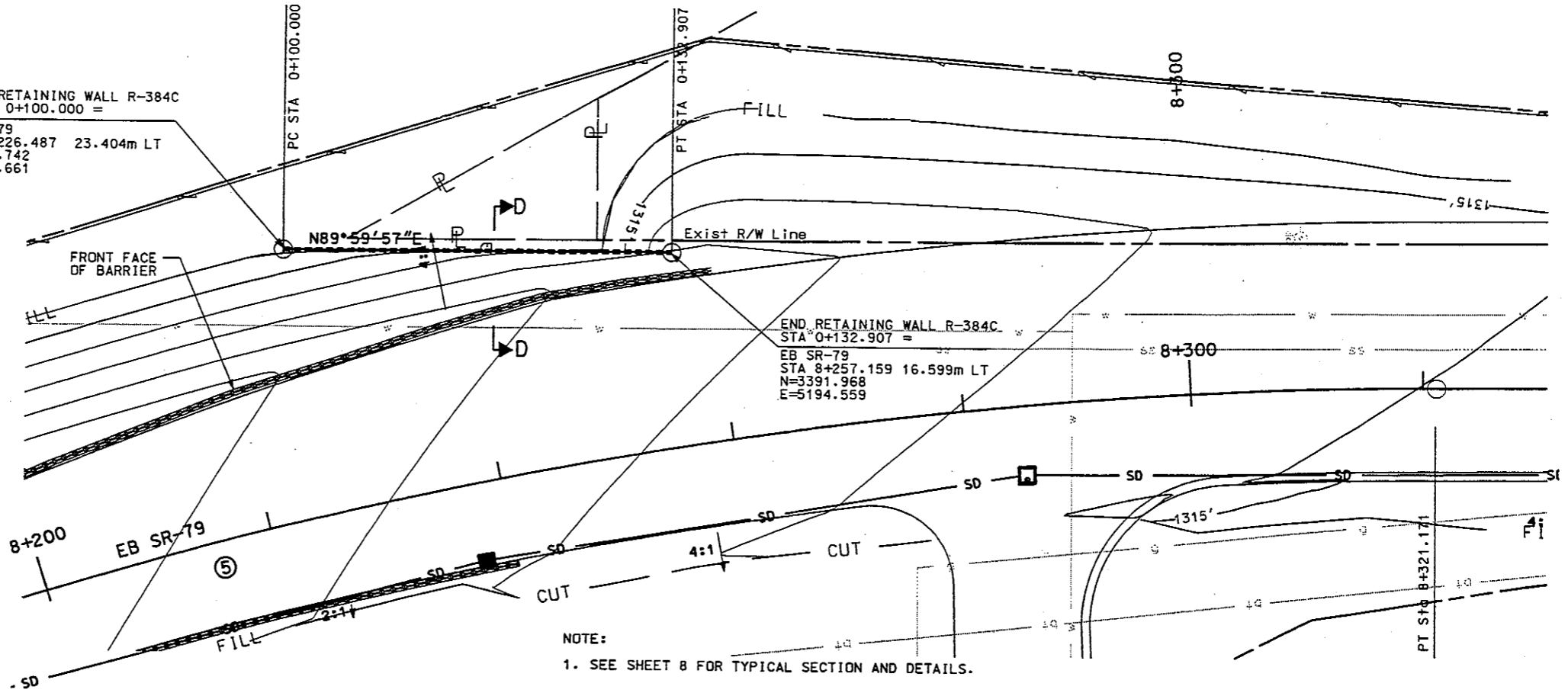
RETAINING WALL R-384B (LOOKING WEST)

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN DC 08/01/02 CHECK CD 09/01/02	DRAWN DC 08/01/02 CHECK CD 09/01/02	REVISIONS
WALL, 30TH & 31ST IN OGDEN RETAINING WALL WB SR-79		APPROVAL DATE 8/20/02	APPROVEE DATE 8/20/02	BY
SITUATION AND LAYOUT R-384B		DESIGN ENGR. <i>Chris Olsen</i>	QUANT.	NO.
WEBER COUNTY R-384		PROJECT NUMBER *STP-0079(1)2	DATE	DATE
DRG. NO.		PROJECT NUMBER *STP-0204(2)1	DATE	DATE
SHT. 2 OF 8		PROJECT NUMBER *SP-0079(3)3	DATE	DATE



BEGIN RETAINING WALL R-384C  
PC STA 0+100.000 =  
EB SR-79  
STA 8+226.487 23.404m LT  
N=3392.742  
E=5161.661

⑤  
RTI = 30°03'54"  
L = 400.000m  
PI = 107.423m  
N = 209.894m  
E = 8+218.700  
E = 3381.483  
E = 5153.269



Station	Top of Wall Elevation	Finished Grade at Face of Wall	Existing Ground	Top of Leveling Pad Maximum Elevation
1320	1314.023	1315.749		
1319	1314.613	1316.110		
1318	1315.192	1316.529		
1317	1315.749	1317.072		
1316	1316.110			
1315	1316.529			
1314	1317.072			
1313				
1312				
1311				
1310				

RETAINING WALL R-384C (LOOKING SOUTH)

11-32  
 31-JUL-2001  
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UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN DC 08/01/00 DRAWN JM 07/05/01 CHECK CO 02/05/01	REVISIONS
WALL, 30TH & 31ST IN OGDEN RETAINING WALL EB SR-79 SITUATION AND LAYOUT R-384C		APPROVAL REGIONAL 7/31/01 DATE 7/31/01 DESIGN ENGR. [Signature] DOT BOSS/ENR. [Signature]	NO. BY DATE
PROJECT NUMBER *STP-0079(1)2 *STP-0204(2)1 *SP-0079(3)3		APPROVED [Signature]	REMARKS
COUNTY R-384C DRG. NO.			
SHT. 3 OF 8			

### 30th/31st Street, SR-79

PROJECT NO: \*STP-0079(1)2

BORING NO: BORING 5

PROJECT NAME: 30TH/31ST SR-79

DATE BEGAN: 27FEB01

DATE FINISHED: 27FEB01

FIELD GEOLOGIST: M HANSEN

DRILLER: B. HARTLEY

STATION: WB 79 1+195

OFFSET: 17 m RT.

GROUND SURFACE ELEVATION: 1313.6

GWL DATE/TIME: 28FEB01/-

GWL DEPTH: 3.1 m

DRILLING METHOD: Rotary Wash

DRILL EQUIP: CME-55

CONTRACTOR: RB&G

PAGE 1 OF 1

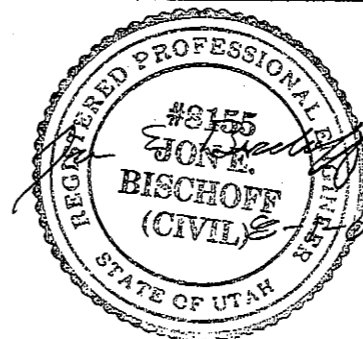
CHECKED BY:

ELEV (M)	DEPTH (M)	SAMPLE TYPE AND NO.	SPT BLOWS PER 150 mm	REC (mm)	Lithology	DESCRIPTION	LL (%)	PI (%)	MC (%)	REMARKS	
0.0		SP-2 5-1.5	10-16-15	350	○	POORLY GRADED GRAVEL WITH SILT AND SAND, GP-GM, DK BROWN					
		PEN 5-6.5	3-3-21	375	□	SILTY SAND: SM, BROWN WIRON OXIDE STAINS, SAND IS FINE TO MEDIUM					
		SP-2 5-11.5	6-3-4	100	○	POORLY GRADED GRAVEL WITH SILT AND SAND, GP-GM, BROWN, GRADES GRAY BROWN AT 3 m					
1310.0		S-BBY 5-15	PUSH	450	▨	LEAN CLAY: CL, GRAY BROWN, WITH THIN ORGANIC (BLACK) SEAMS TO APPROXIMATELY 8 m					
	-5.0	PEN 5-21.5	2-3-3	400	▨					BEDDING ANGLE 40 DEGREES FROM HORIZONTAL	
		S-BBY 5-25	PUSH	450	▨						
1305.0		PEN 5-31.5	2-2-3	450	▨					9 m TO END OF BORING A FEW VERY THIN (1 mm) LENSES OF SILTY SAND, SLOPING FROM HORIZONTAL	
	-10.0	S-BBY 5-35	PUSH	450	▨		36	14	30		
		PEN 5-41.5	2-3-5	450	▨						
1300.0		S-BBY 5-45	PUSH	450	▨						
	-15.0	PEN 3-3-4		450	▨					END OF BORING AT 15.7 m	

#### GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN 02-27-01 AND 03-07-01 BY THE GEOTECHNICAL DIVISION OF UDOT
2. THESE BORING LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE BORING LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR
3. THE WATER LEVELS AND CONDITIONS INDICATED ON THE BORING LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED, THAT AT LOCATIONS AWAY FROM THE BORINGS OR AT ANOTHER TIME THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.
5. COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76mm AND 305mm
6. BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR GREATER
7. IN ORDER TO PROVIDE MORE CONSISTENCY AND UNIFORMITY WITH GEOTECHNICAL AND CONSTRUCTION INDUSTRY STANDARDS, UDOT HAS RECENTLY ADOPTED THE UNIFIED SOIL CLASSIFICATION SYSTEM (USING BOTH THE USCS SYMBOLS AND MAJOR SOIL DESCRIPTION STANDARDS) ON BOTH THE SOIL EXPLORATION LOGS AND IN THE REPORT'S SOIL DESCRIPTIONS. HOWEVER, THE ASSHTO GROUP CLASSIFICATION WILL ALSO CONTINUE TO BE USED AS SHOWN HEREIN.

NOTE:



#### KEY TO BORING LOG RELATIVE DENSITY (NON-PLASTIC SAND & SILT)

VERY LOOSE - N LESS THAN 4  
 LOOSE - N 4 TO 10  
 MEDIUM - N 10 TO 30  
 DENSE - N 30 TO 50  
 VERY DENSE - N MORE THAN 50

#### CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT - N LESS THAN 2  
 SOFT - N 2 TO 4  
 MEDIUM - N 4 TO 8  
 STIFF - N 8 TO 15  
 VERY STIFF - N 15 TO 30  
 HARD - N MORE THAN 30

#### ABBREVIATIONS

LL - LIQUID LIMIT  
 PI - PLASTICITY INDEX  
 NP - NON-PLASTIC  
 MC - NATURAL MOISTURE CONTENT (%)  
 N - SPT BLOW COUNT  
 REF - REFUSAL (GREATER THAN 50 BLOWS PER 152mm)  
 PEN - SPT SAMPLE  
 CS - CALIFORNIA SAMPLE - GROUNDWATER TABLE  
 AASHTO - SOIL CLASSIFICATION SYSTEM SYMBOL  
 USCS - UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL

UTAH DEPARTMENT OF TRANSPORTATION  
 SALT LAKE CITY, UTAH  
 STRUCTURES DIVISION

WALL, 30TH & 31ST IN OGDEN  
 RETAINING WALL WB SR-79  
 SOIL DATA SHEET

PROJECT NUMBER  
 \*STP-0079(1)2  
 SIP-0204(2)1  
 \*SP-0079(1)3

WEBER  
 COUNTY  
 R-384  
 DRG. NO.

REVISIONS

NO. DATE BY

CHECK

CHECK

CHECK

DESIGN

DRAWN

QUANT.

DESIGN ENGR.

DATE

APPROVED

DATE

UDOT BRIDGE ENGR.

APPROVED

DATE

APPROVED

DATE

APPROVED

DATE

APPROVED

DATE

APPROVED

### 30th/31st Street, SR-79

PROJECT NO: \*STP-0079(1)2

BORING NO: BORING 6

PROJECT NAME: 30TH/31ST SR-79

DATE BEGAN: 28FEB01

DATE FINISHED: 28FEB01

FIELD GEOLOGIST: M HANSEN

DRILLER: B. HARTLEY

STATION: WB 79, 1+236

OFFSET: 0.3 m LT.

GROUND SURFACE ELEVATION: 1313.6

GWL DATE/TIME: 28FEB01A-

GWL DEPTH: 2.4 m

DRILLING METHOD: Rotary Wash

DRILL EQUIP: CME-55

CONTRACTOR: RB&G

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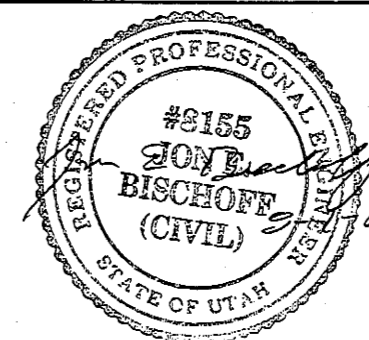
CHECKED BY:

ELEV (M)	DEPTH (M)	SAMPLE TYPE AND NO.	SPT BLOWS PER 150 mm	REC (mm)	Lithology	DESCRIPTION	LL (%)	PI (%)	MC (%)	REMARKS
0.0		SP-2 6-1.5	17-11-7	350		POORLY GRADED GRAVEL WITH SILT AND SAND, GP-GM, DK BROWN				
		SP-2 6-6.5	13-20-25	350		LEAN CLAY: CL, WITH GRAVEL, DK BROWN TO BLACK, GRAVEL UP TO 75 mm,				75 mm SILTY SAND LAYER AT 1.5 m
		SP-2 6-11.5	8-3-1	12		POORLY GRADED GRAVEL WITH SILT AND SAND, GP-GM, BROWN				
1310.0		SP-2 6-11.5	8-3-1	12		LEAN CLAY: CL, REDDISH BROWN, INTERBEDDED WITH GRAY SILTY FINE SAND LAYERS (1 mm TO 15 mm THICK), BEDDING IS DISTORTED				
-5.0		PEN 6-16.5	5-3-2	400		LEAN CLAY: CL, REDDISH BROWN WITH SILTY SAND LENSES (1 mm THICK), BEDDING UP TO 30 DEGREES FROM HORIZONTAL	34	16	24	
		S-EBY 6-25	PUSH	425						
		PEN 6-26.5	2-3-5	450						
1305.0		S-EBY 6-35	PUSH	450						
-10.0		PEN 6-36.5	2-4-4	450						GRADES GRAYISH BROWN AT 12 m
		S-EBY 6-45	PUSH	450						
		PEN 6-46.5	3-3-5	450						
1300.0		S-EBY 6-45	PUSH	450						
-15.0		PEN 6-46.5	3-3-5	450						
		S-EBY 6-45	PUSH	450						END OF BORING AT 15.7 m

#### GENERAL NOTES

- THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN 02-27-01 AND 03-07-01 BY THE GEOTECHNICAL DIVISION OF UDOT
- THESE BORING LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE BORING LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR
- THE WATER LEVELS AND CONDITIONS INDICATED ON THE BORING LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED, THAT AT LOCATIONS AWAY FROM THE BORINGS OR AT ANOTHER TIME THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
- THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.
- COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76mm AND 305mm
- BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR GREATER
- IN ORDER TO PROVIDE MORE CONSISTENCY AND UNIFORMITY WITH GEOTECHNICAL AND CONSTRUCTION INDUSTRY STANDARDS, UDOT HAS RECENTLY ADOPTED THE UNIFIED SOIL CLASSIFICATION SYSTEM (USING BOTH THE USCS SYMBOLS AND MAJOR SOIL DESCRIPTION STANDARDS) ON BOTH THE SOIL EXPLORATION LOGS AND IN THE REPORT'S SOIL DESCRIPTIONS. HOWEVER, THE ASSHTO GROUP CLASSIFICATION WILL ALSO CONTINUE TO BE USED AS SHOWN HEREIN.

NOTE:



#### KEY TO BORING LOG RELATIVE DENSITY (NON-PLASTIC SAND & SILT)

VERY LOOSE - N LESS THAN 4  
LOOSE - N 4 TO 10  
MEDIUM - N 10 TO 30  
DENSE - N 30 TO 50  
VERY DENSE - N MORE THAN 50

#### CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT - N LESS THAN 2  
SOFT - N 2 TO 4  
MEDIUM - N 4 TO 8  
STIFF - N 8 TO 15  
VERY STIFF - N 15 TO 30  
HARD - N MORE THAN 30

#### ABBREVIATIONS

LL - LIQUID LIMIT  
PI - PLASTICITY INDEX  
NP - NON-PLASTIC  
MC - NATURAL MOISTURE CONTENT (%)  
N - SPT BLOW COUNT  
REF - REFUSAL (GREATER THAN 50 BLOWS PER 152mm)  
PEN - SPT SAMPLE  
CS - CALIFORNIA SAMPLE - GROUNDWATER TABLE  
AASHTO - SOIL CLASSIFICATION SYSTEM SYMBOL  
USCS - UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION	CHECK DESIGN DRAWN QUANT.
WALL, 30TH & 31ST IN OGDEN RETAINING WALL WB SR-79	SOIL DATA SHEET
PROJECT NUMBER *STP-0079(1)2 STP-02041211 *SP-0079(1)313	APPROVAL RECORDAL DATE DESIGN ENGR. DATE UDOT BRIDGE ENGR.
COUNTY R-384	DRG. NO. R-384
SHEET 5 OF 8	

## 30th/31st Street, SR-79

PROJECT NO: \*STP-0079(1)2  
 DATE BEGAN: 27FEB01  
 DRILLER: B. HARTLEY  
 GROUND SURFACE ELEVATION: 1313.8  
 DRILLING METHOD: Rotary Wash  
 CONTRACTOR: RB&G

BORING NO: BORING 7  
 DATE FINISHED: 27FEB01  
 STATION: WB 79, 1+282  
 GWL DATE/TIME: 27FEB01/-  
 DRILL EQUIP: CME-55

PROJECT NAME: 30TH/31ST SR-79  
 FIELD GEOLOGIST: M HANSEN  
 OFFSET: 15 m LT.  
 GWL DEPTH: 2.0 m  
 CHECKED BY:

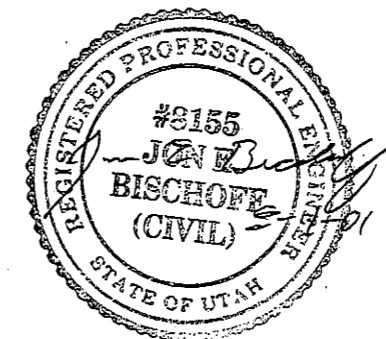
PAGE 1 OF 1

ELEV (M)	DEPTH (M)	SAMPLE TYPE AND NO.	SPT BLOWS PER 150 mm	REC (mm)	Lithology	DESCRIPTION	LL (%)	PI (%)	MC (%)	REMARKS	
0.0		SP-2 7-1.5	3-5-8	300	○●○●○●○●○●○●○●○●○	LEAN CLAY: CL, WITH SAND AND FINE GRAVEL, DARK BROWN AND BLACK, MAY ROOTLETS					
		SP-2 7-6.5	26-20-19	125	○●○●○●○●○●○●○●○●○	POORLY GRADED GRAVEL: GP, BROWN AND GRAY, SOME FINE TO COURSE SAND, GRADES WITH SAND AT 3 m				TOTAL LOSS OF CIRCULATION OUTSIDE OF CASING	
		SP-2 7-9	25-26-30	50	○●○●○●○●○●○●○●○●○						
		SP-2 7-11.5	16-18-16	175	○●○●○●○●○●○●○●○●○						
1310.0		S-BLY 7-84	PUSH	400	○●○●○●○●○●○●○●○●○	LEAN CLAY: CL, REDDISH BROWN, WITH SILTY SAND LENSES (1 TO 5 mm THICK), BEDDING UP TO 35 DEGREES FROM HORIZONTAL					
	-5.0	PEN 7-21.5	2-3-5	400	○●○●○●○●○●○●○●○●○						
		S-BLY 7-85	PUSH	450	○●○●○●○●○●○●○●○●○		34	14	29	GRADES GRAYISH BROWN BELOW 7 m	
1305.0		PEN 7-31.5	2-2-4	400	○●○●○●○●○●○●○●○●○					HIT GAS POCKET IN THIN GRAY SILTY SAND, WITH CLAY LAYER, BLEW WATER OUT OF HOLE, ODERFEROUS	
	-10.0	S-BLY 7-86	PUSH	450	○●○●○●○●○●○●○●○●○					THIN BLACK ORGANIC SEAMS BELOW 12 m	
		PEN 7-41.5	2-3-4	250	○●○●○●○●○●○●○●○●○						
1300.0		S-BLY 7-87	PUSH	450	○●○●○●○●○●○●○●○●○						
	-15.0	PEN 3-3-5	3-3-5	450	○●○●○●○●○●○●○●○●○					END OF BORING AT 15.7 m	

### GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN 02-27-01 AND 03-07-01 BY THE GEOTECHNICAL DIVISION OF UDOT
2. THESE BORING LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE BORING LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR
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4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.
5. COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 75mm AND 305mm
6. BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR GREATER
7. IN ORDER TO PROVIDE MORE CONSISTENCY AND UNIFORMITY WITH GEOTECHNICAL AND CONSTRUCTION INDUSTRY STANDARDS, UDOT HAS RECENTLY ADOPTED THE UNIFIED SOIL CLASSIFICATION SYSTEM (USING BOTH THE USCS SYMBOLS AND MAJOR SOIL DESCRIPTION STANDARDS) ON BOTH THE SOIL EXPLORATION LOGS AND IN THE REPORT'S SOIL DESCRIPTIONS. HOWEVER, THE ASSHTO GROUP CLASSIFICATION WILL ALSO CONTINUE TO BE USED AS SHOWN HEREIN.

NOTE:



### KEY TO BORING LOG RELATIVE DENSITY (NON-PLASTIC SAND & SILT)

VERY LOOSE - N LESS THAN 4  
 LOOSE - N 4 TO 10  
 MEDIUM - N 10 TO 30  
 DENSE - N 30 TO 50  
 VERY DENSE - N MORE THAN 50

### CONSISTENCY

(PLASTIC - SILT & CLAY)  
 VERY SOFT - N LESS THAN 2  
 SOFT - N 2 TO 4  
 MEDIUM - N 4 TO 8  
 STIFF - N 8 TO 15  
 VERY STIFF - N 15 TO 30  
 HARD - N MORE THAN 30

### ABBREVIATIONS

LL - LIQUID LIMIT  
 PI - PLASTICITY INDEX  
 NP - NON-PLASTIC  
 MC - NATURAL MOISTURE CONTENT (%)  
 N - SPT BLOW COUNT  
 REF - REFUSAL (GREATER THAN 50 BLOWS PER 152mm)  
 PEN - SPT SAMPLE  
 CS - CALIFORNIA SAMPLE - GROUNDWATER TABLE  
 AASHTO - SOIL CLASSIFICATION SYSTEM SYMBOL  
 USCS - UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL

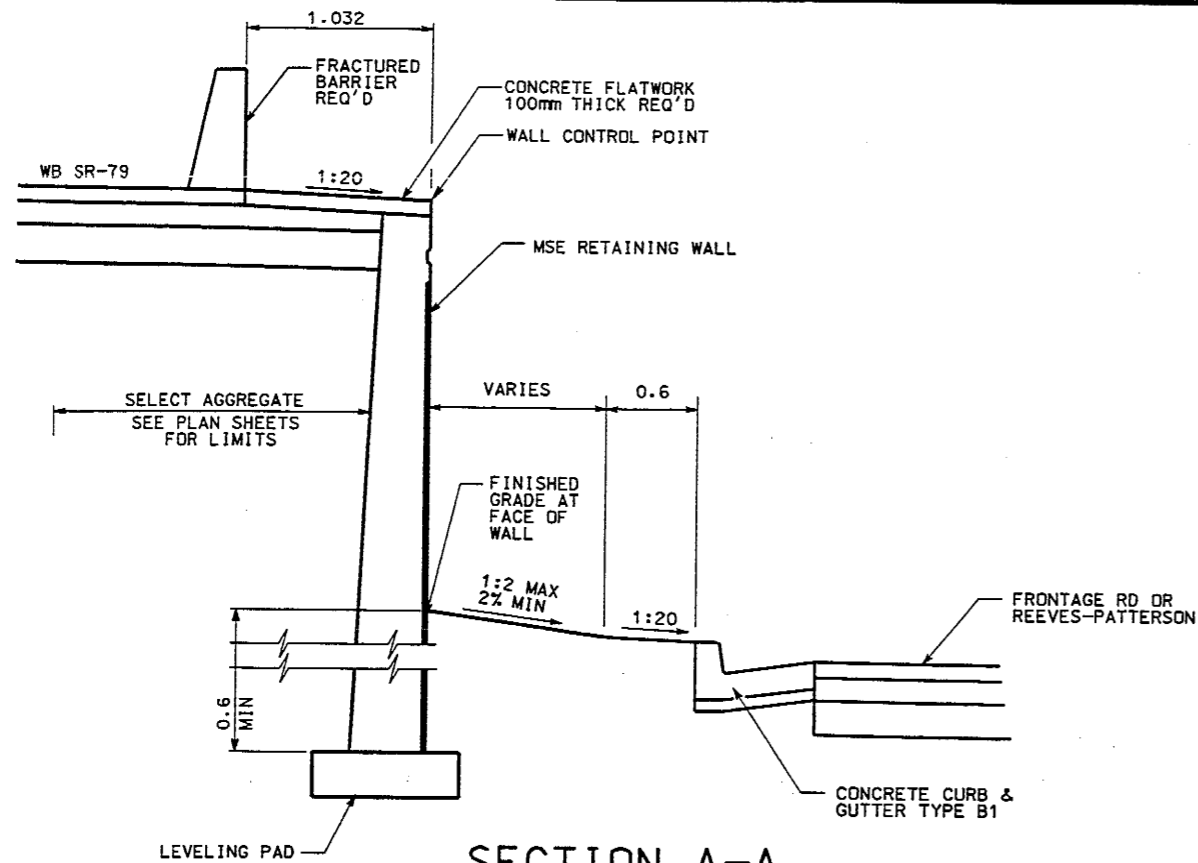
UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

WALL, 30TH & 31ST IN OGDEN  
RETAINING WALL WB SR-79  
SOIL DATA SHEET

PROJECT NUMBER  
\*STP-0079(1)2  
STP-0204(2)1  
\*SP-0079(3)3

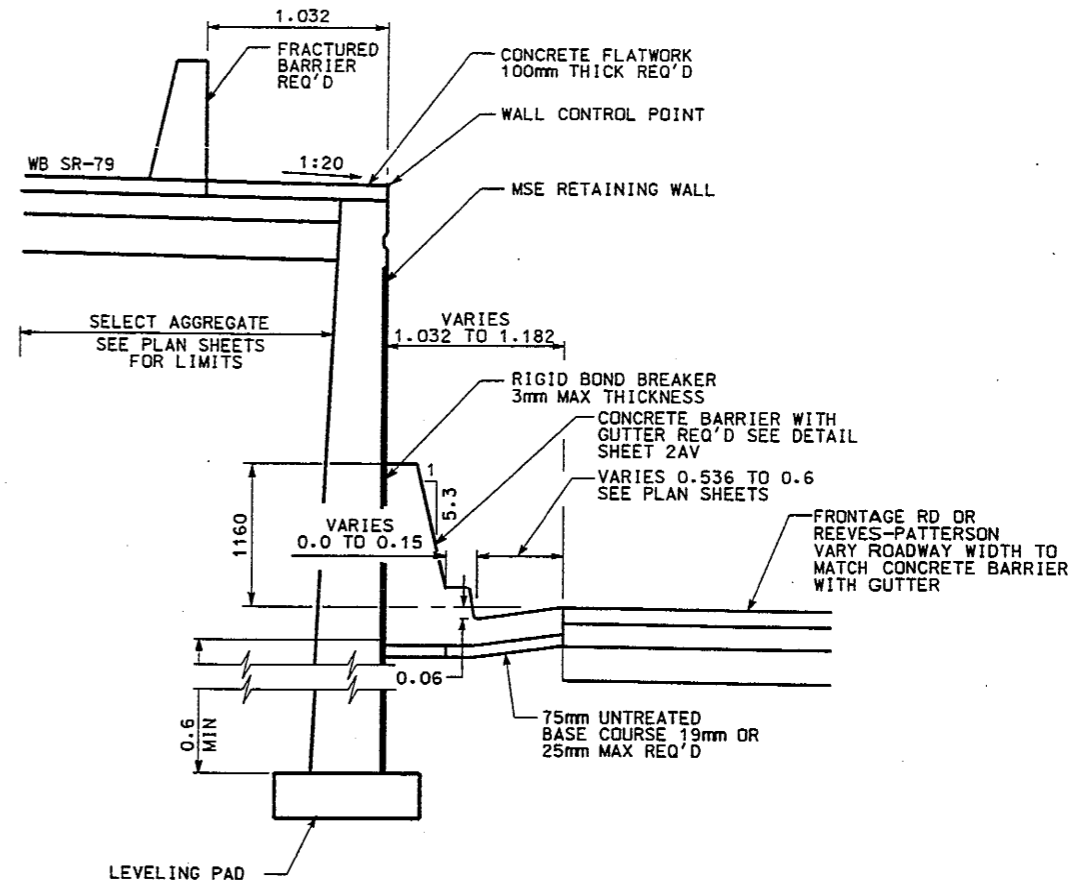
WEBER COUNTY  
R-384  
DRG. NO.

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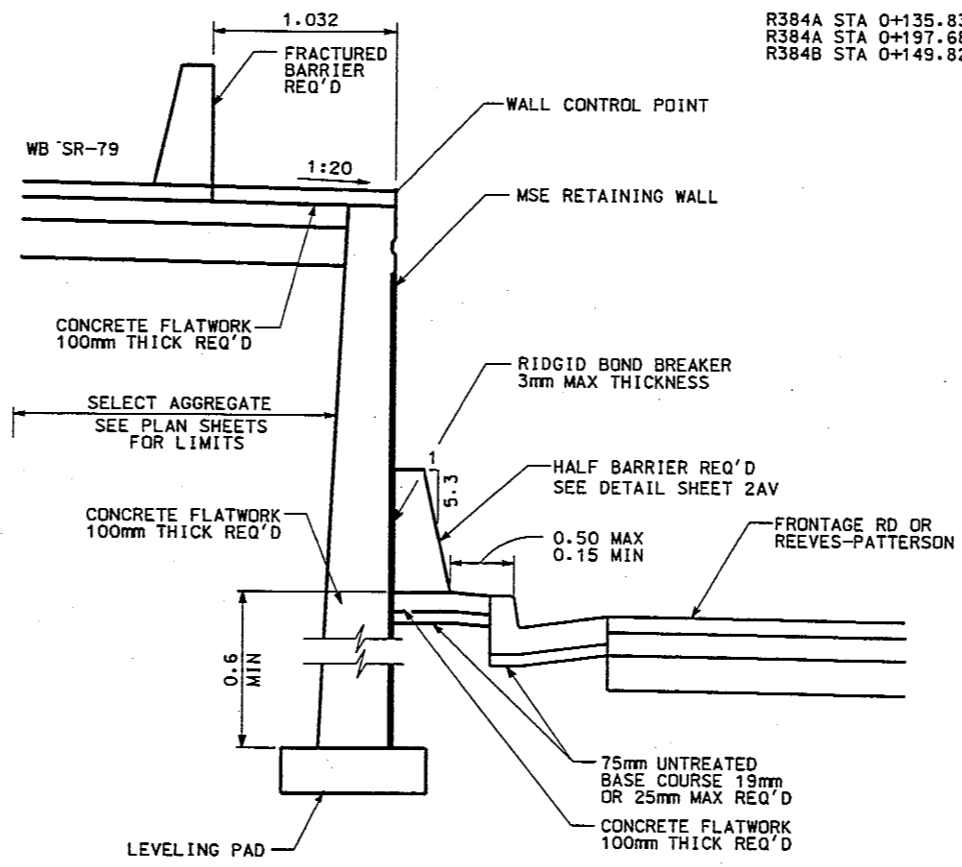
**SECTION A-A**

R384A STA 0+100.00 TO STA 0+132.12  
 R384A STA 0+206.26 TO STA 0+237.30  
 R384B STA 0+100.00 TO STA 0+147.15  
 R384B STA 0+159.68 TO STA 0+183.24



**SECTION B-B**

R384A STA 0+135.83 TO STA 0+186.36  
 R384A STA 0+197.68 TO STA 0+202.60  
 R384B STA 0+149.82 TO STA 0+156.82



**SECTION C-C**

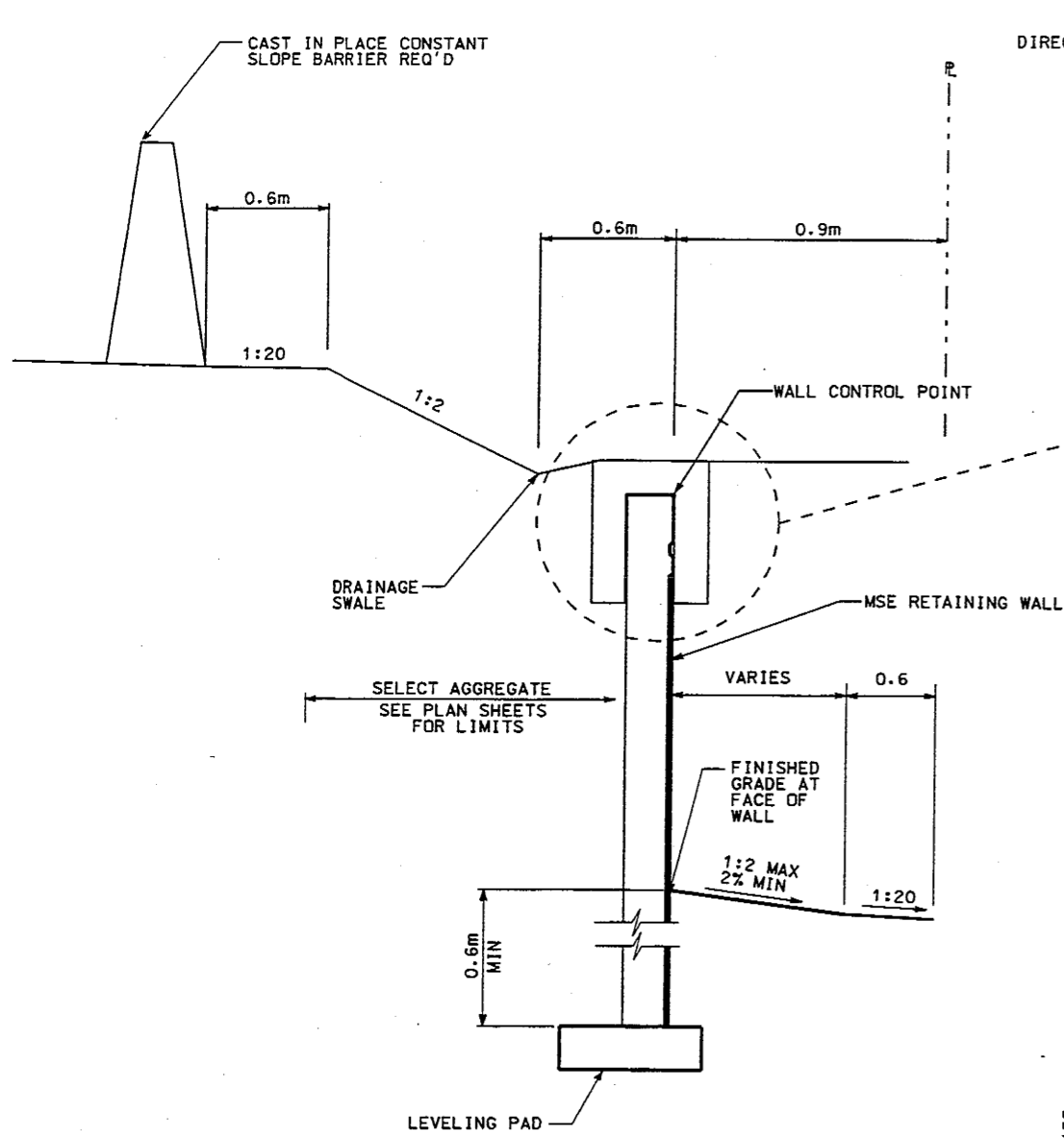
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 R384A STA 0+186.36 TO STA 0+197.68  
 R384A STA 0+202.60 TO STA 0+206.26  
 R384B STA 0+147.15 TO STA 0+149.82  
 R384B STA 0+156.82 TO STA 0+159.68

NOTE:  
 ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.

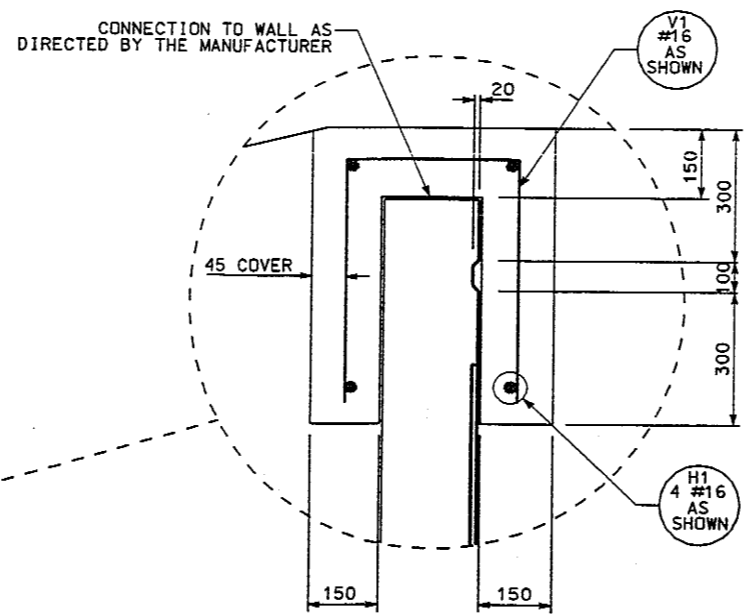
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UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN DC 8/1/00	CHECK CD 9/1/00	REVISIONS
WALL, 30TH & 31ST IN OGDEN		DRAWN DC 8/1/00	CHECK CD 8/1/00	NO.
RETAINING WALL WB SR-79		DATE 7/31/01	QUANT.	BY
DETAIL SHEET		APPROVED DATE 7/31/01	QUANT.	REMARKS
PROJECT NUMBER *STP-0079(1)2 *STP-0204(2)1 *SP-0079(3)3				
WEBER COUNTY				
R-384				
DRG. NO.				
SHT. 7 OF 8				

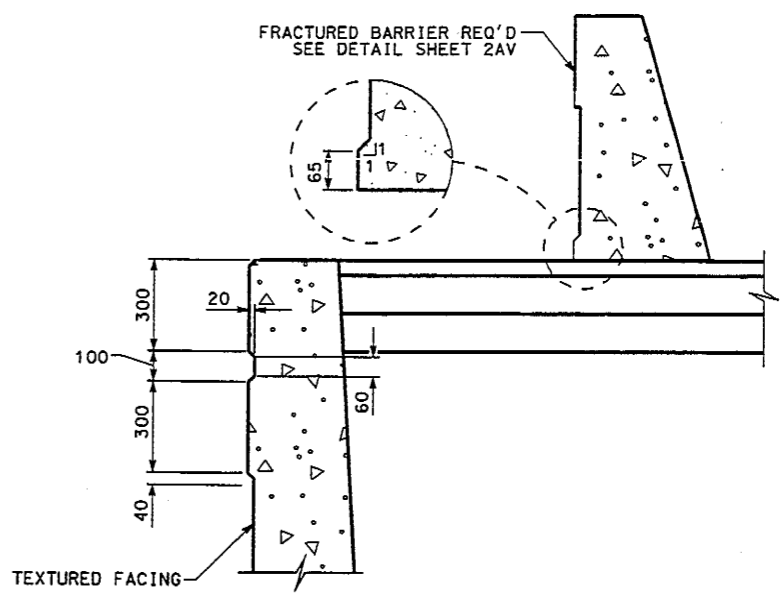




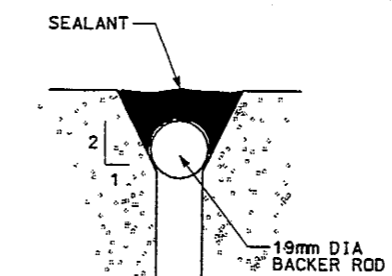
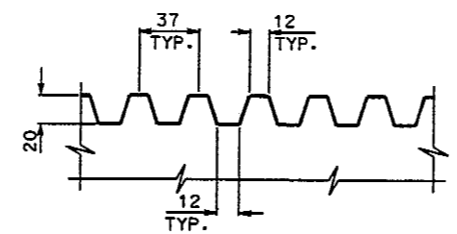
**SECTION D-D**  
R384C STA 0+100.00 TO STA 0+132.91



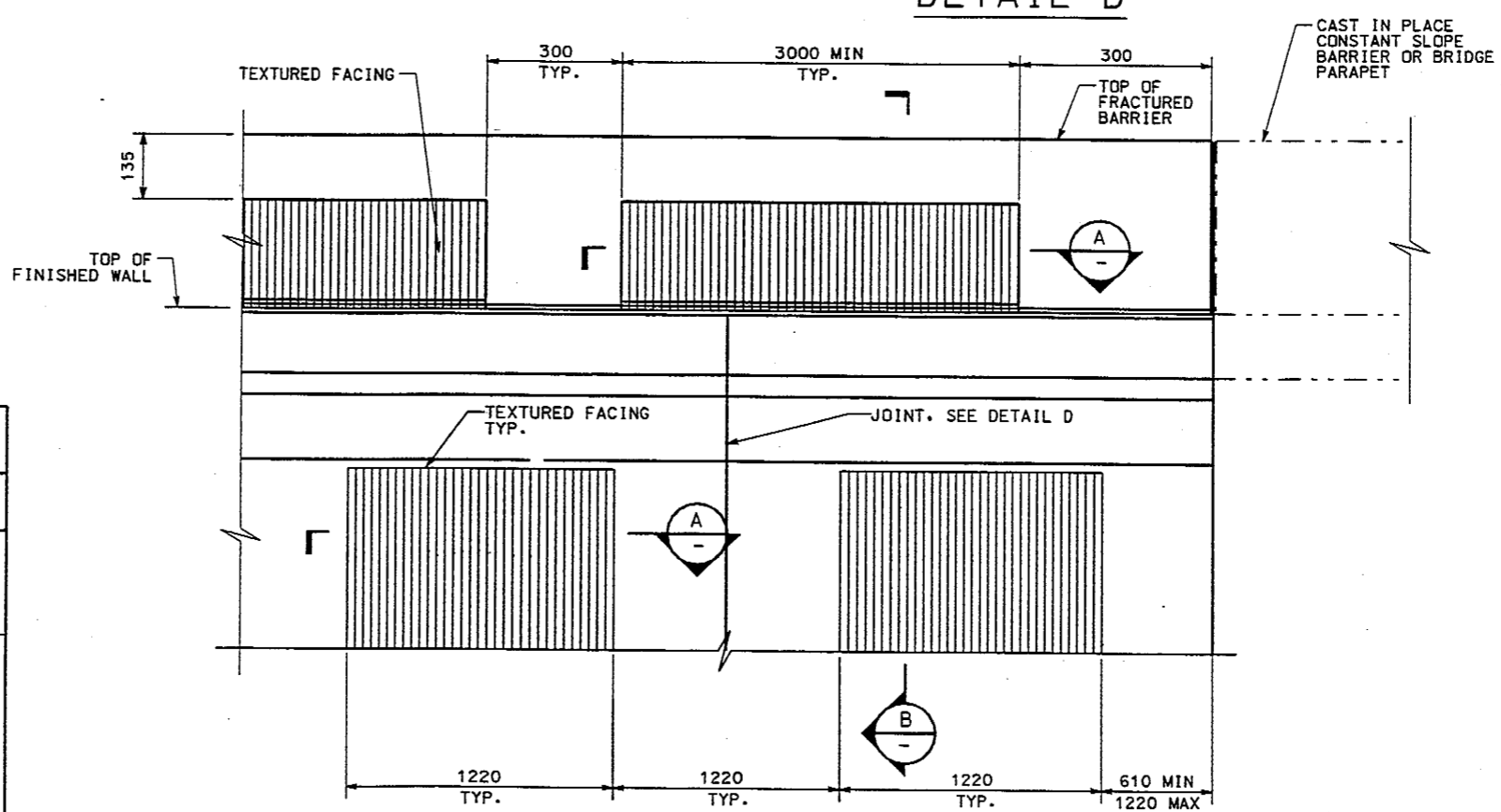
**PARTIAL SECTION A-A**



**PARTIAL SECTION B-B**



**DETAIL D**



**TYPICAL ELEVATION VIEW OF WALL TEXTURING**

NOTE:  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

BARRIER REINFORCING STEEL SCHEDULE					
MARK	BAR SPACING	SIZE NO.	NO. BARS	LENGTH	SKETCH
H1	AS SHOWN	16	4	VARIES	
V1	300	16	-	-	

UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

WALL, 30TH & 31ST IN OGDEN  
RETAINING WALL WB SR-79

DETAIL SHEET

DESIGN DC 8/1/00 CHECK CD 9/1/00  
DRAWN DC 8/1/00 CHECK CD 9/1/00  
DATE 7/31/01 DATE 7/31/01  
APPROVED [Signature] DATE 7/31/01 DATE 7/31/01  
DESIGNER [Signature] DATE 7/31/01 DATE 7/31/01  
DRAWN [Signature] DATE 7/31/01 DATE 7/31/01  
CHECKED [Signature] DATE 7/31/01 DATE 7/31/01

PROJECT NUMBER \*STP-0079112  
\*STP-02041211  
\*SP-0079113

WEBER COUNTY  
R-384  
DRG. NO.

SHT. 8 OF 8

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