

RCS

STATE	PROJECT NO.	SHEET NO.
UTAH	*SP-15-6(32)276	1

METRIC

15-00-2

UTAH  
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE ROADS

\*SP-15-6(32)276

&

\*ISTP-15-6(137)276

I-15 PLEASANT GROVE INTERCHANGE

UTAH COUNTY

CONSTRUCT NEW INTERCHANGE

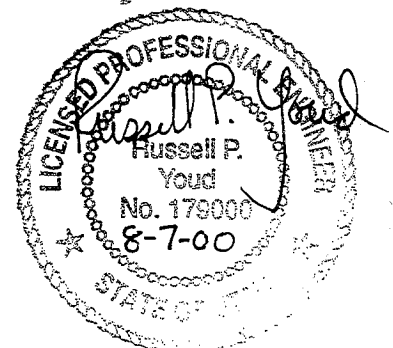
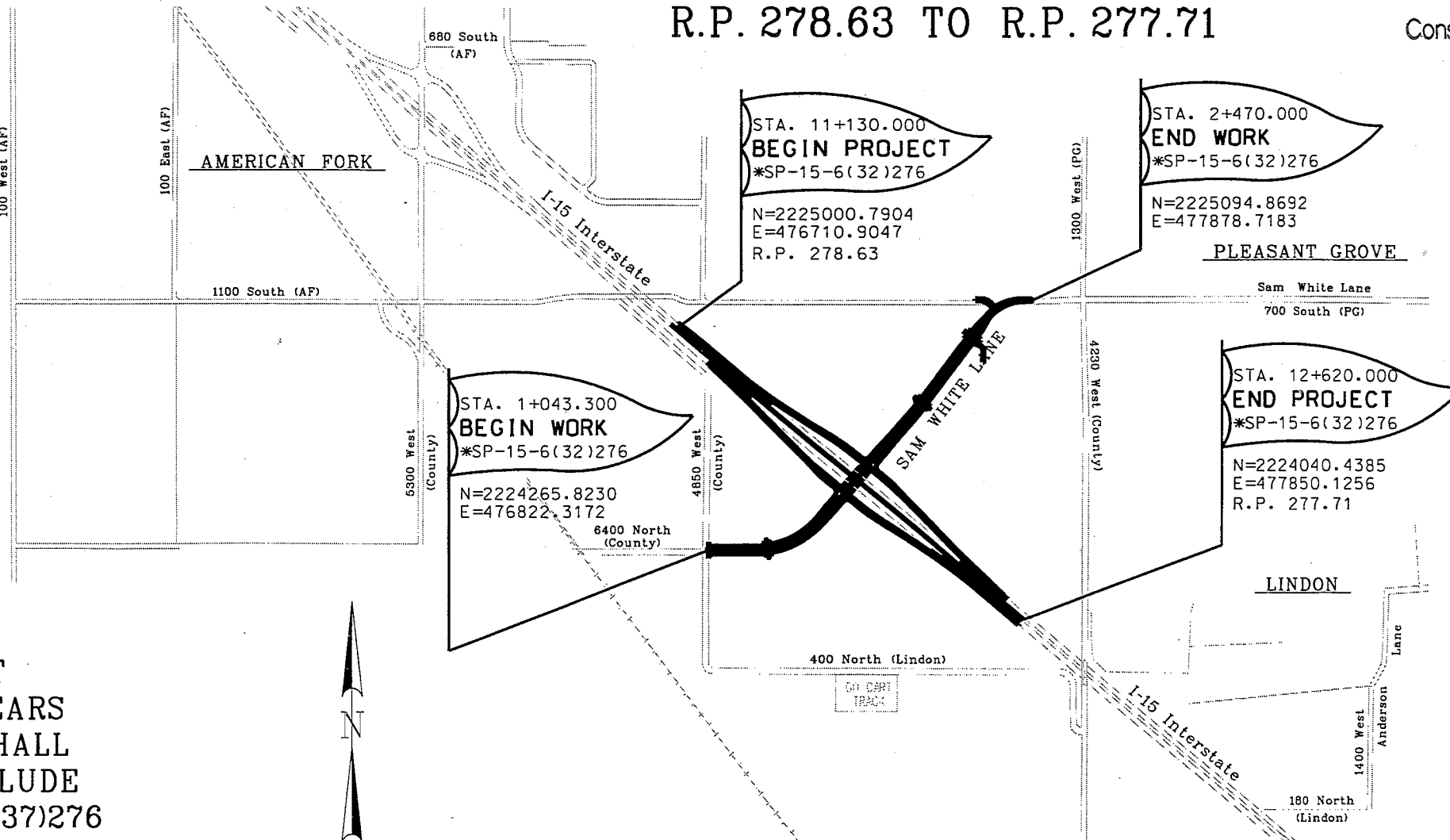
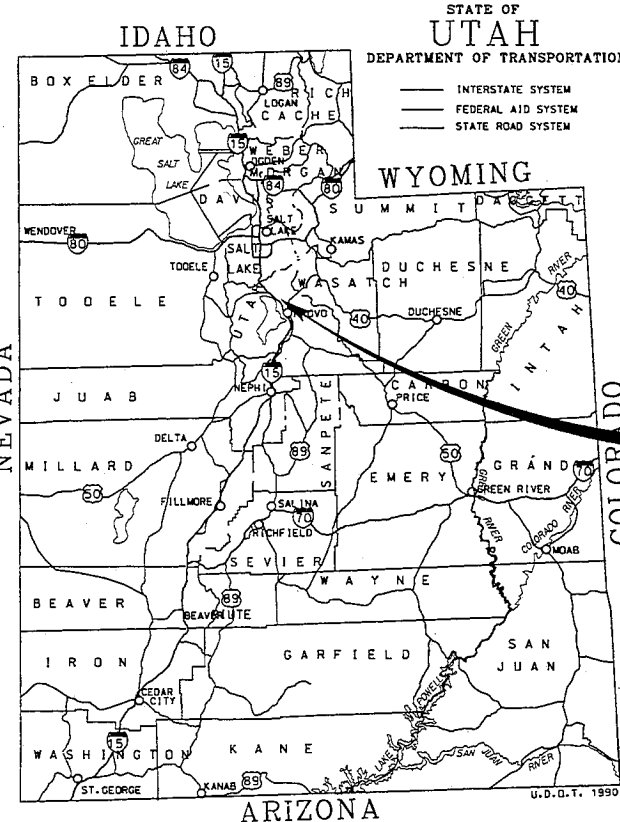
LENGTH = 1.490 km

R.P. 278.63 TO R.P. 277.71

RECEIVED

SEP 18 2000

Const. R-3 Orem, Utah



UTAH DEPARTMENT OF TRANSPORTATION  
APPROVED Aug 8, 2000  
Alan W Meacham  
REGION DIRECTOR

WHEREVER THE PROJECT  
NO. \*SP-15-6(32)276 APPEARS  
IN THE PLAN SET IT SHALL  
BE UNDERSTOOD TO INCLUDE  
PROJECT NO. \*ISTP-15-6(137)276

VICINITY MAP

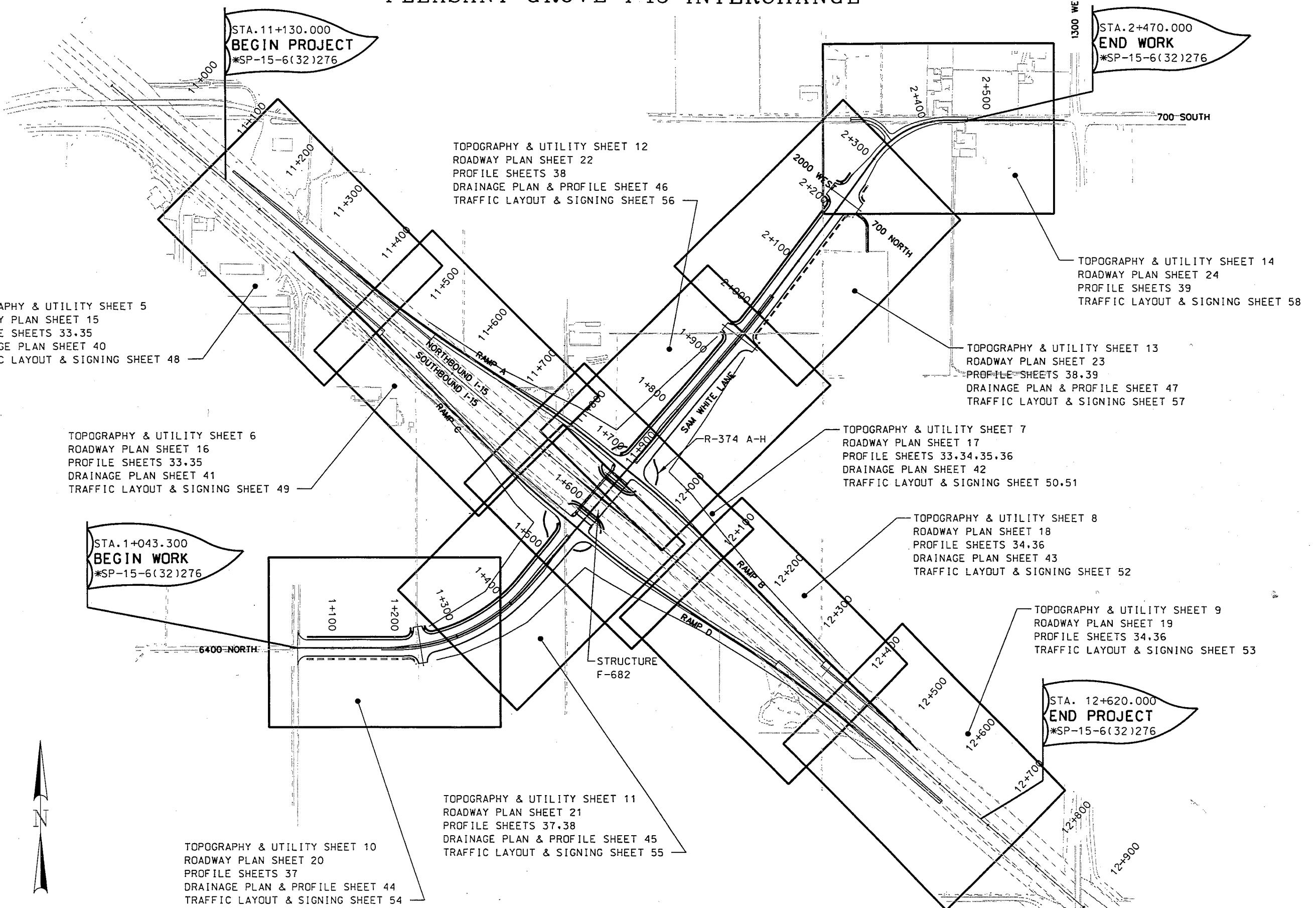
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**CROSS REFERENCE INDEX SHEET**

**PLEASANT GROVE I-15 INTERCHANGE**

REMARKS  
DESIGN MAPS / PARCELS REQUEST  
REV. BY: LDB / CORR. BY: HMK / PARCEL AMENDMENT  
NO. DATE  
REVIEW DATE  
DESIGN JCS 2/00  
CHECK DMG 2/00  
ROADWAY DESIGN  
APPROVAL 8/00  
PROJECT DESIGN ENGINEER  
DATE 8/03  
DATE 8/03  
PROJECT DESIGN ENGINEER  
ROADWAY DESIGN ENGINEER

DGN TAG: 0:\0001-86\1883.00\SHEET.FILES\COVER\1883.CROSSREF.DGN 7-18-2000 8:01:28 JCS



STA. 11+130.000  
**BEGIN PROJECT**  
\*SP-15-6(32)276

STA. 2+470.000  
**END WORK**  
\*SP-15-6(32)276

STA. 1+043.300  
**BEGIN WORK**  
\*SP-15-6(32)276

STA. 12+620.000  
**END PROJECT**  
\*SP-15-6(32)276

NO.	DATE	DESIGN REV. BY	MAPS CORR. BY	PARCELS REQUEST BY	REVISIONS	REMARKS

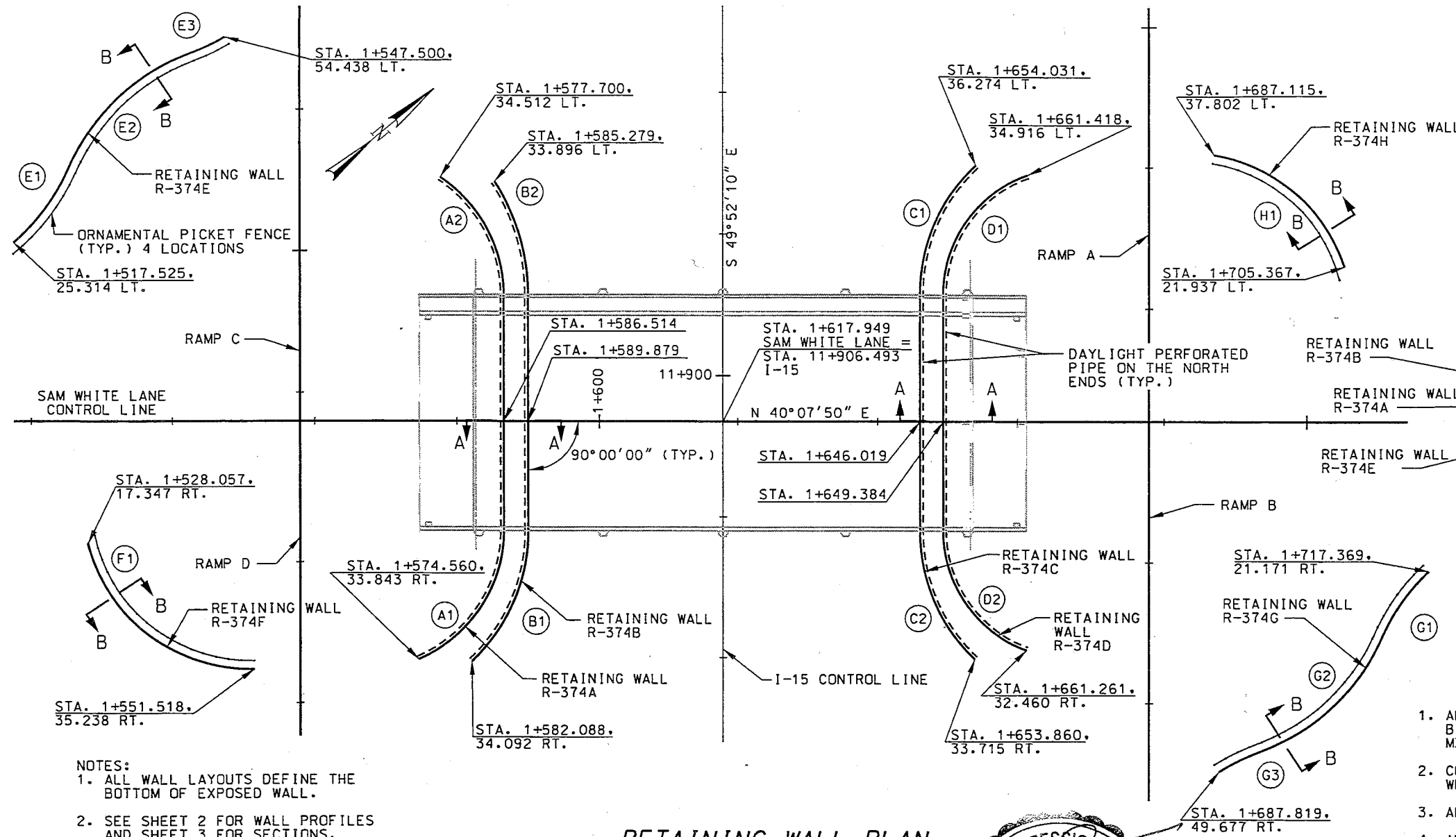
NO.	DATE	DESIGN REV. BY	MAPS CORR. BY	PARCELS REQUEST BY	REVISIONS	REMARKS

UTAH COUNTY

SHEET NO. 10

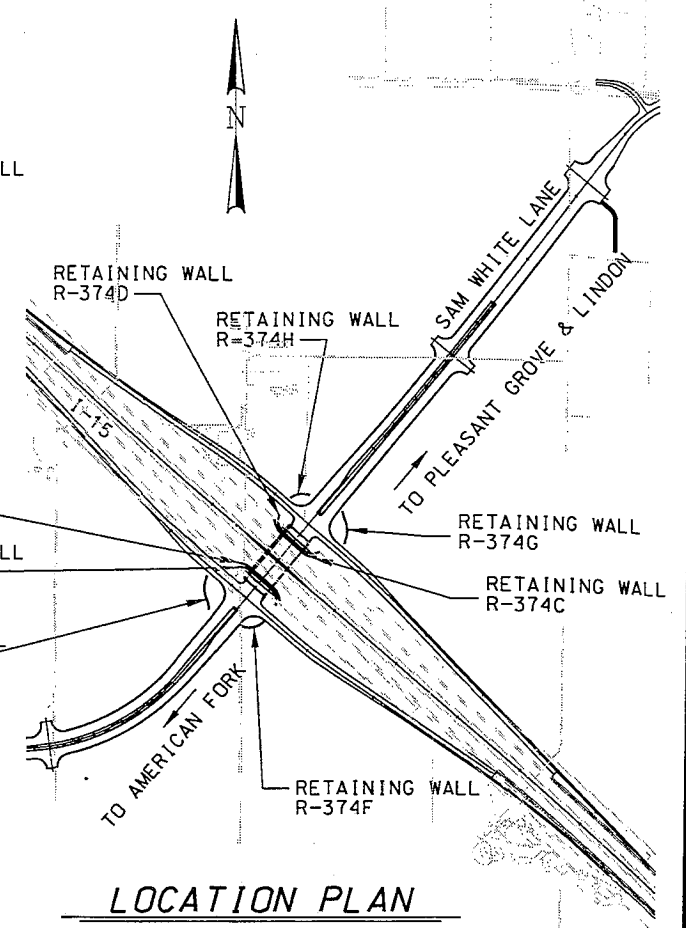
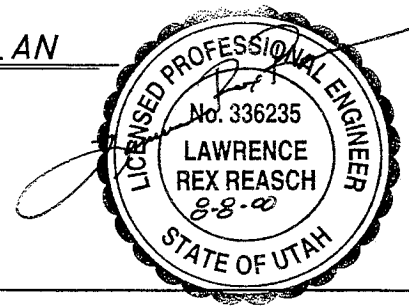
UTAH COUNTY	UTAH DEPARTMENT OF TRANSPORTATION
REGION NO. 3 -- OREM, UTAH	ROADWAY DESIGN
CROSS REFERENCE SHEET	QUANT.
PLEASANT GROVE INTERCHANGE	DESIGN JCS 2/00
PROJECT NUMBER *SP-15-6(32)276	CHECK DMG 2/00
	CHECK JCS 2/00
	CHECK DMG 2/00
	REVIEW DATE BY
	APPROVED 8/03
	DATE 8/03
	APPROVED 8/03
	DATE 8/03
	APPROVED 8/03
	DATE 8/03

DGN TAG: 01/0001-86/1883.00/SHEET.F FILES/STRUCTURES/1883.RET WALL.01.DGN 7-18-2000 7:10:53 JCS



NOTES:  
 1. ALL WALL LAYOUTS DEFINE THE BOTTOM OF EXPOSED WALL.  
 2. SEE SHEET 2 FOR WALL PROFILES AND SHEET 3 FOR SECTIONS.

**RETAINING WALL PLAN**



**LOCATION PLAN**  
**GENERAL NOTES**

1. ALL REINFORCING STEEL SHALL BE COATED DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M 284 AND M31M GRADE 400, RESPECTIVELY.
2. COVER TO REINFORCING STEEL SHALL BE 50 mm EXCEPT WHERE NOTED OTHERWISE.
3. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS A.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. ALL STATIONS AND ELEVATIONS ARE IN METERS.

**DESIGN DATA**

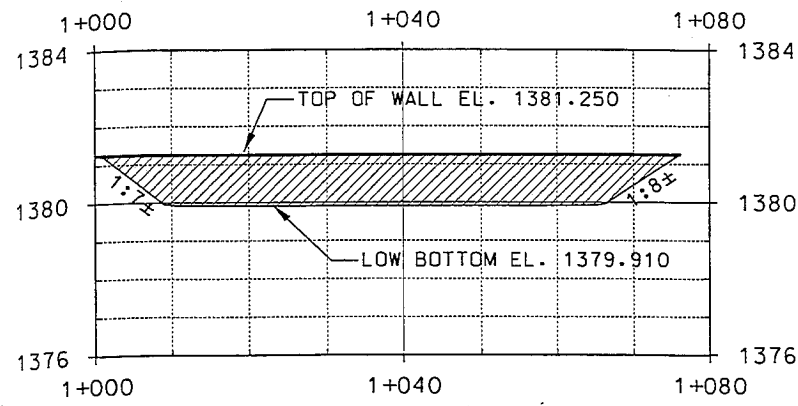
REINFORCING STEEL:  $f_s = 160 \text{ MPa}$ ;  $F_y = 400 \text{ MPa}$   
 CAST-IN-PLACE CONCRETE:  $f_c = 21 \text{ MPa}$

**QUANTITIES**

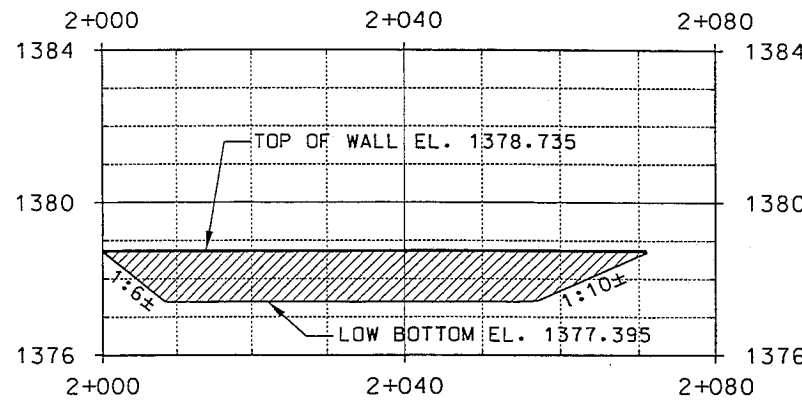
CURVE TABLE									
CURVE ID.	RADIUS (m)	DELTA ( $\Delta$ )	CENTER OF CURVE		CURVE ID.	RADIUS (m)	DELTA ( $\Delta$ )	CENTER OF CURVE	
			STATION & OFFSET	COORDINATES				STATION & OFFSET	COORDINATES
(A1)	20.000	66°16'36"	STA. 1+566.514, 15.533 RT.	N 2224450.9786 E 477283.3184	(E1)	30.100	25°18'41"	STA. 1+498.007, 48.228 LT.	N 2224439.6954 E 477190.4131
(A2)	20.000	55°59'31"	STA. 1+566.514, 17.933 LT.	N 2224472.5485 E 477257.7309	(E2)	31.100	44°58'40"	STA. 1+553.800, 23.078 LT.	N 2224466.1444 E 477245.6027
(B1)	26.000	45°36'22"	STA. 1+563.879, 15.533 RT.	N 2224448.9640 E 477281.6201	(E3)	30.100	4°59'48"	STA. 1+532.110, 80.306 LT.	N 2224486.4448 E 477187.8677
(B2)	30.000	32°08'50"	STA. 1+559.879, 17.933 LT.	N 2224467.4756 E 477253.4546	(F1)	23.800	76°36'35"	STA. 1+551.112, 11.442 RT.	N 2224441.8398 E 477270.2635
(C1)	25.000	47°13'43"	STA. 1+671.019, 17.933 LT.	N 2224552.4508 E 477325.0877	(G1)	30.100	22°06'00"	STA. 1+738.141, 42.956 RT.	N 2224564.5260 E 477414.9038
(C2)	25.000	46°39'29"	STA. 1+671.019, 15.533 RT.	N 2224530.8810 E 477350.6751	(G2)	31.100	44°58'40"	STA. 1+682.347, 17.806 RT.	N 2224538.0770 E 477359.7142
(D1)	18.000	70°44'24"	STA. 1+667.384, 17.933 LT.	N 2224549.6716 E 477322.7449	(G3)	30.100	11°50'48"	STA. 1+704.038, 75.033 RT.	N 2224517.7766 E 477417.4492
(D2)	18.000	70°12'16"	STA. 1+667.384, 15.533 RT.	N 2224528.1016 E 477348.3322	(H1)	23.800	61°04'09"	STA. 1+682.793, 14.398 LT.	N 2224559.1741 E 477335.3791

ITEM	ESTIMATED	UNIT	AS CONST.
RETAINING WALL (R-374A) (EST. QUANTITY: 87 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374B) (EST. QUANTITY: 71 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374C) (EST. QUANTITY: 84 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374D) (EST. QUANTITY: 92 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374E) (EST. QUANTITY: 112 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374F) (EST. QUANTITY: 41 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374G) (EST. QUANTITY: 114 m <sup>2</sup> )	1	LUMP	
RETAINING WALL (R-374H) (EST. QUANTITY: 26 m <sup>2</sup> )	1	LUMP	
1.220 m ORNAMENTAL PICKET FENCE	143	LIN. M	
LANDSCAPE FABRIC	975	M2	
COBBLE ROCK	914	M2	

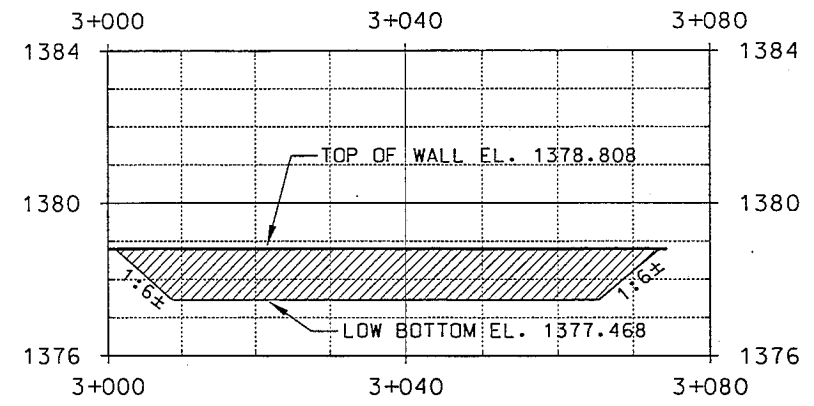
UTAH DEPARTMENT OF TRANSPORTATION  
 SALT LAKE CITY  
 STRUCTURES DIVISION  
 PROJECT NO. 1883-00  
 SHEET 1883-00-01



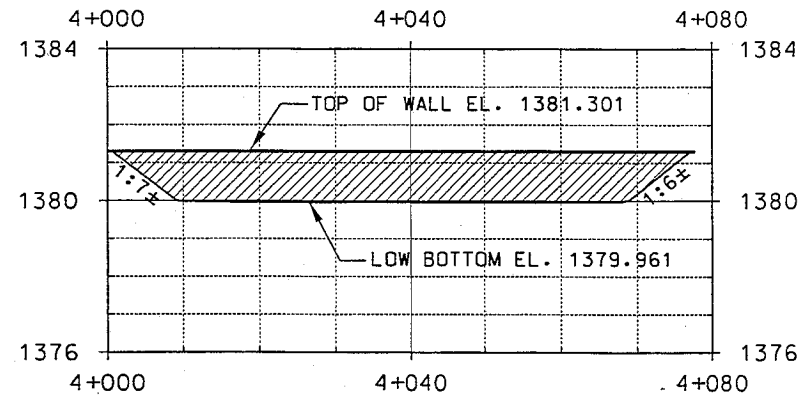
RETAINING WALL R-374A



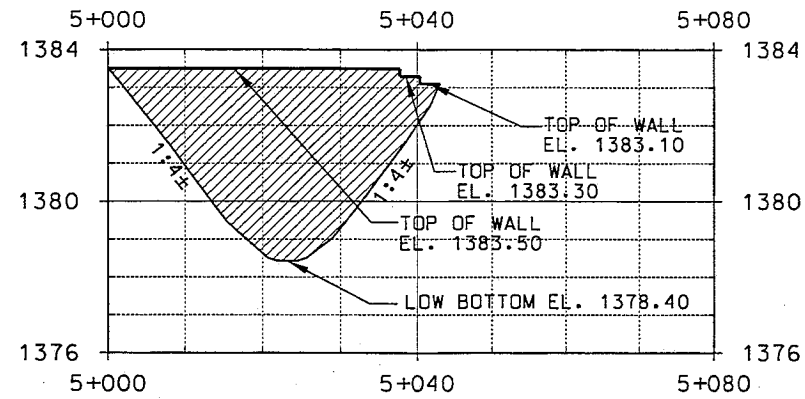
RETAINING WALL R-374B



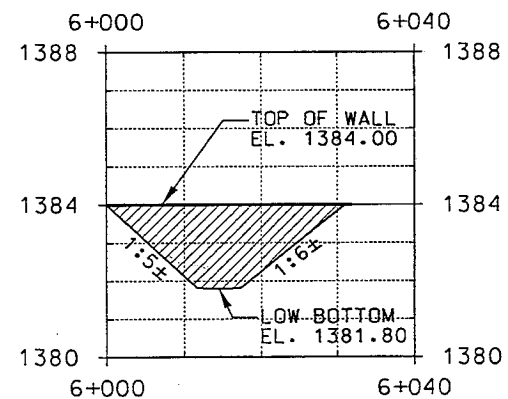
RETAINING WALL R-374C



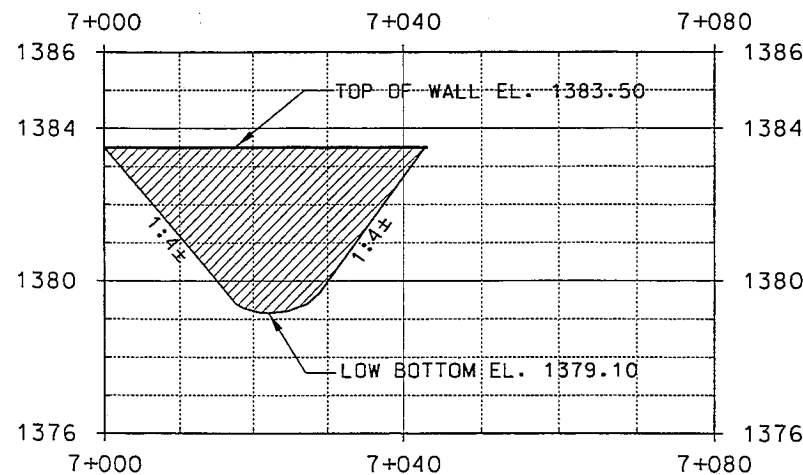
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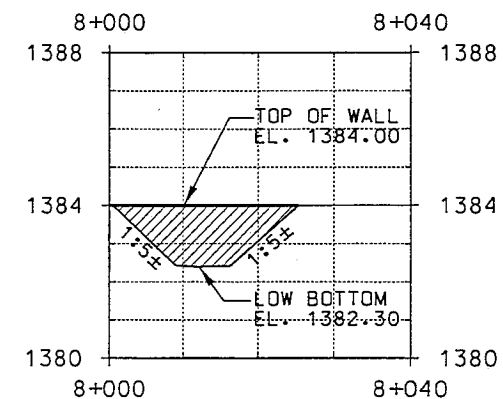
RETAINING WALL R-374E



RETAINING WALL R-374F



RETAINING WALL R-374G



RETAINING WALL R-374H

UTAH DEPARTMENT OF TRANSPORTATION  
 SALT LAKE CITY  
 STRUCTURES DIVISION  
 PROJECT NO. 6321276  
 SHEET NO. 2 OF 3

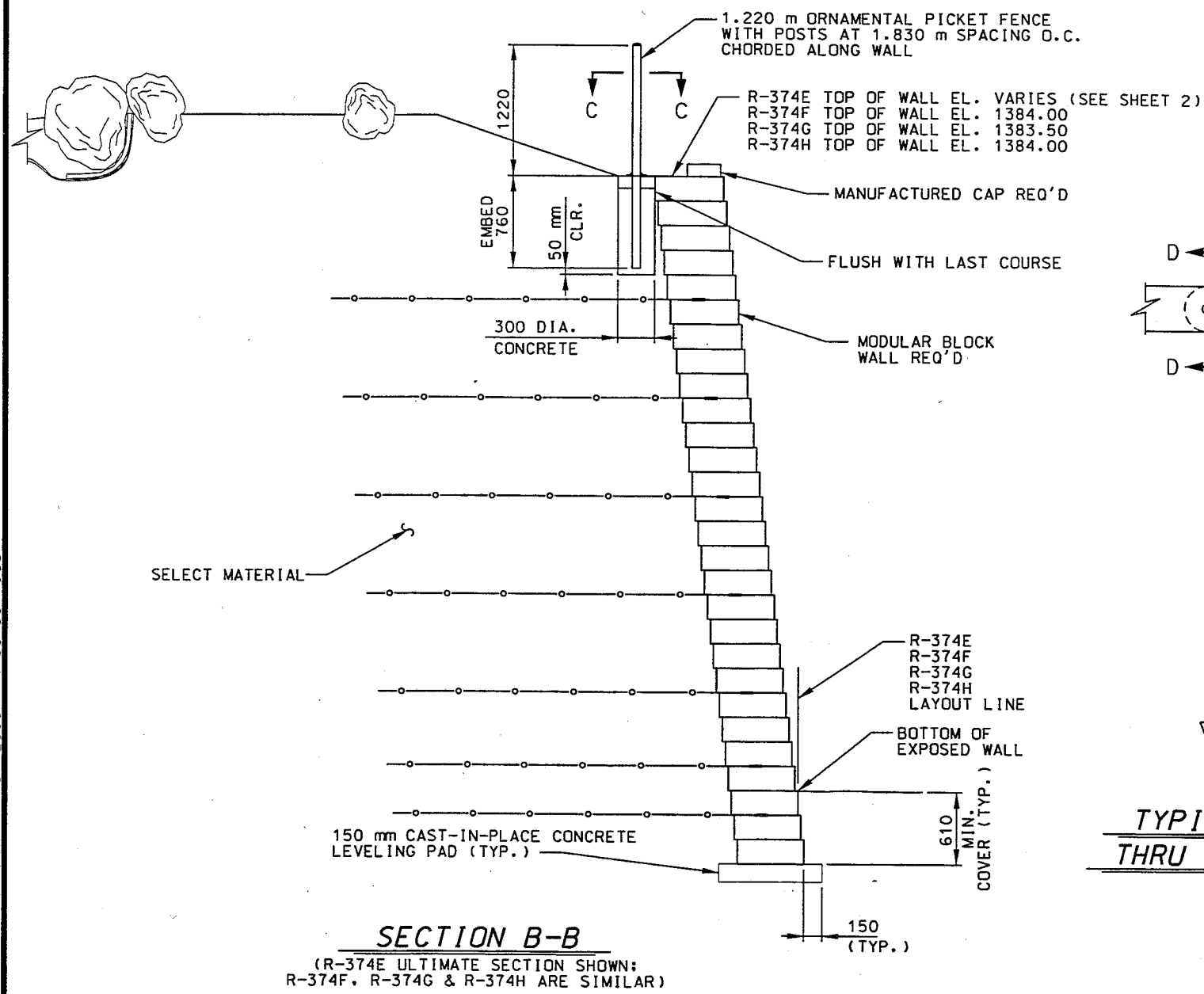
UTAH DEPARTMENT OF TRANSPORTATION  
 SALT LAKE CITY  
 STRUCTURES DIVISION  
 PROJECT NO. 6321276  
 SHEET NO. 2 OF 3

DESIGN	TJM	3/00	CHECK	LRR	4/00	REVIEW	
DRAWN	HAK	3/00	CHECK	LRR	4/00	DATE	
QUANT.			CHECK			BY	

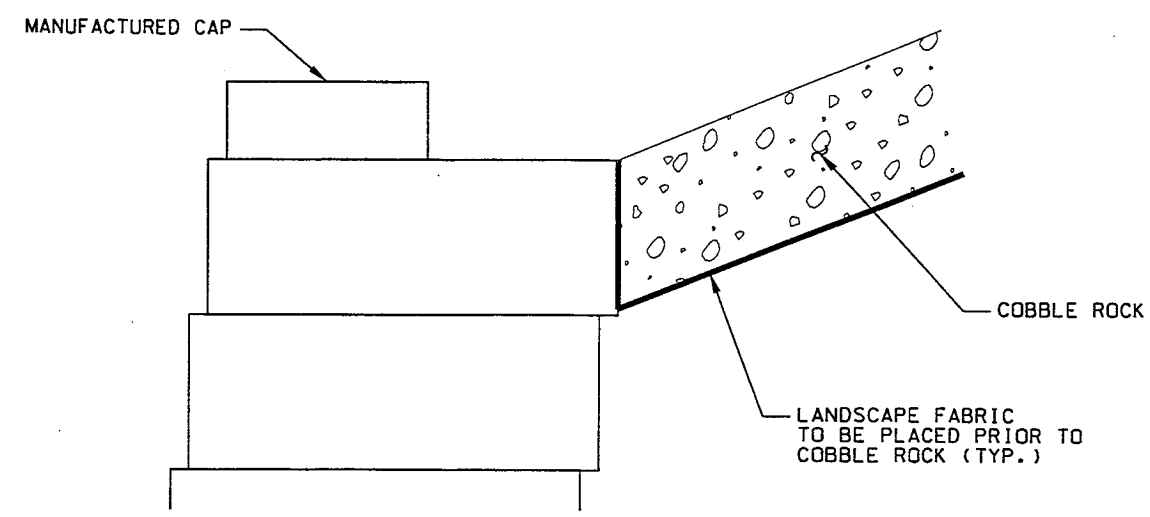
I-15 PLEASANT GROVE INTERCHANGE  
 SAM WHITE LANE OVER I-15  
 RETAINING WALL PROFILES  
 PROJECT NUMBER \*SP-15-6(32)276

UTAH COUNTY	
R-374	
DWG. NO.	
SHEET NO.	2 OF 3

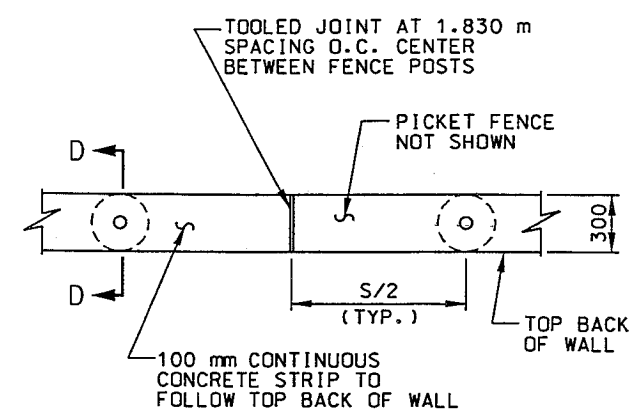
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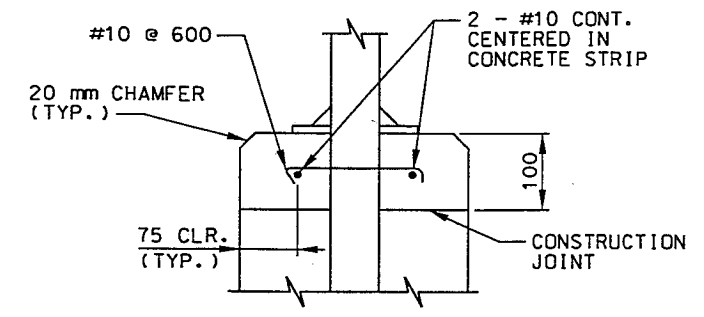
**SECTION B-B**  
 (R-374E ULTIMATE SECTION SHOWN;  
 R-374F, R-374G & R-374H ARE SIMILAR)



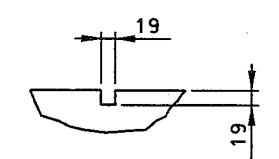
**DETAIL "A"**



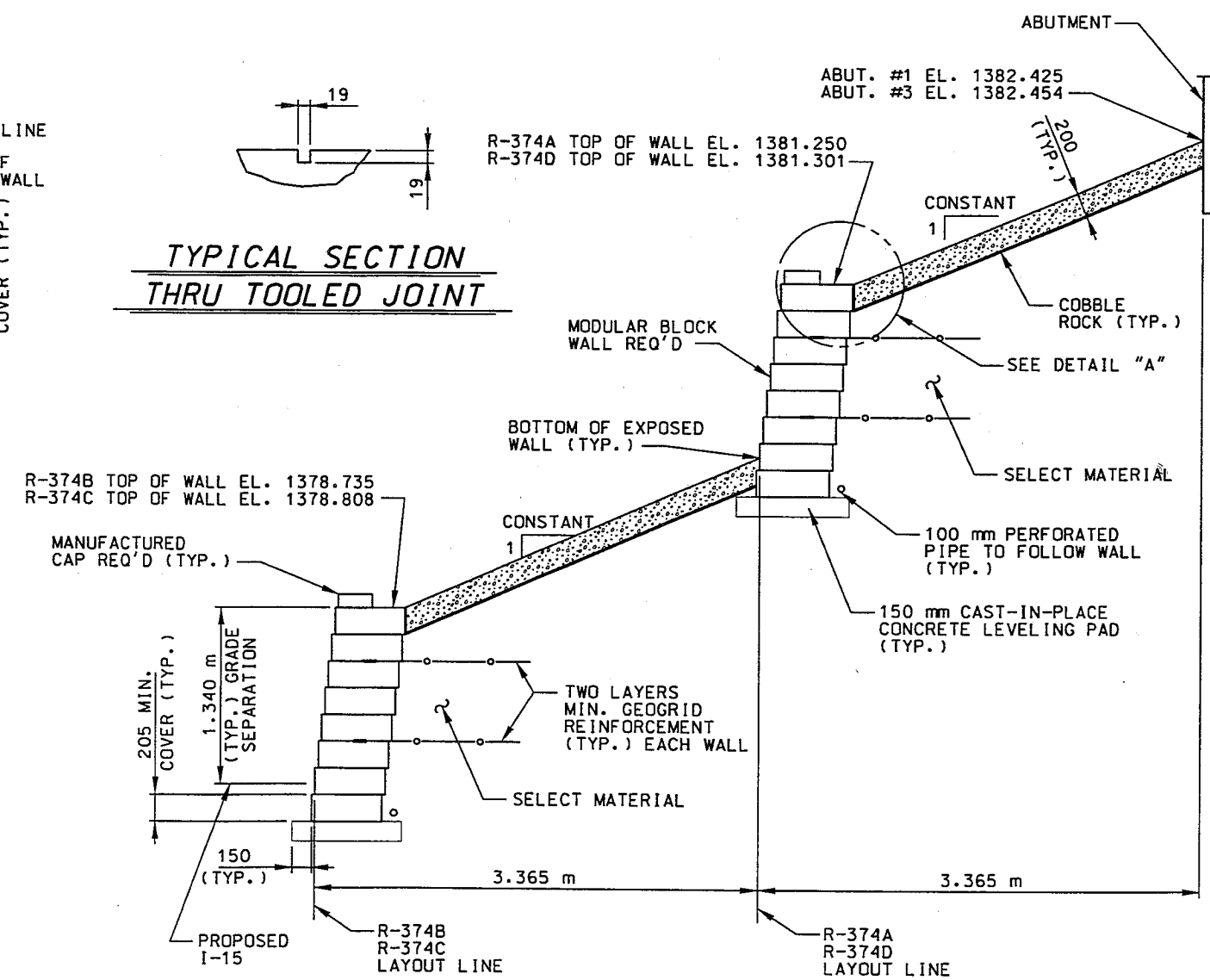
**SECTION C-C**



**SECTION D-D**



**TYPICAL SECTION THRU TOOLED JOINT**



**SECTION A-A**

UTAH DEPARTMENT OF TRANSPORTATION  
 SALT LAKE CITY  
 STRUCTURES DIVISION

I-15 PLEASANT GROVE INTERCHANGE  
 SAM WHITE LANE OVER I-15  
 RETAINING WALL DETAILS

UTAH COUNTY  
 R-374  
 DWG. NO.  
 SHEET NO. 3