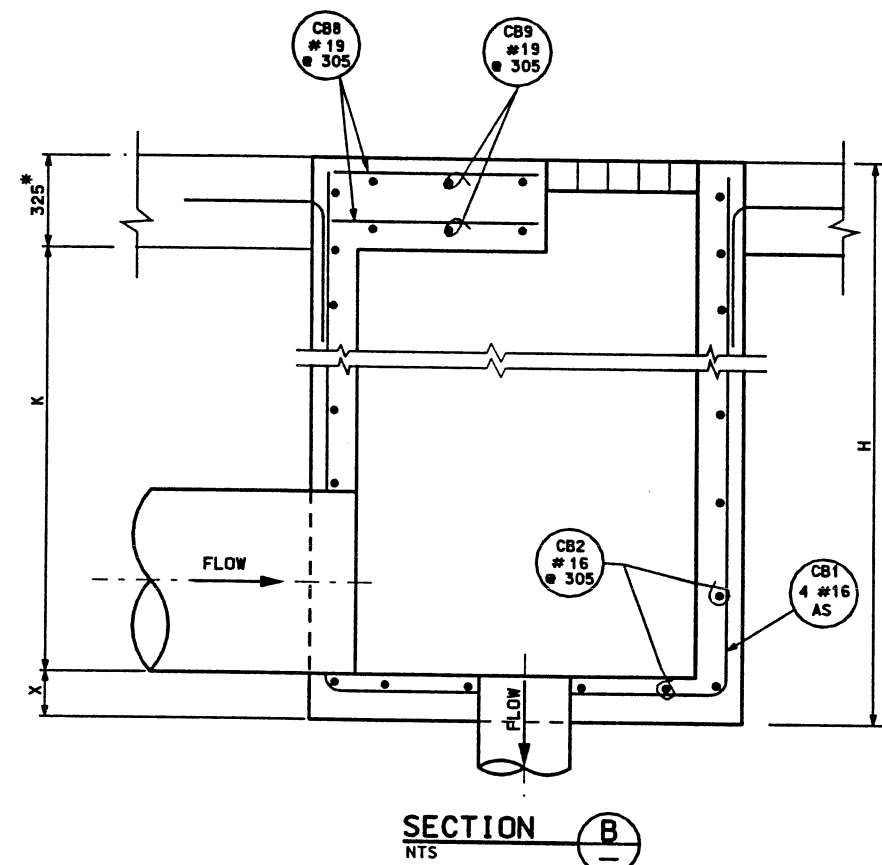
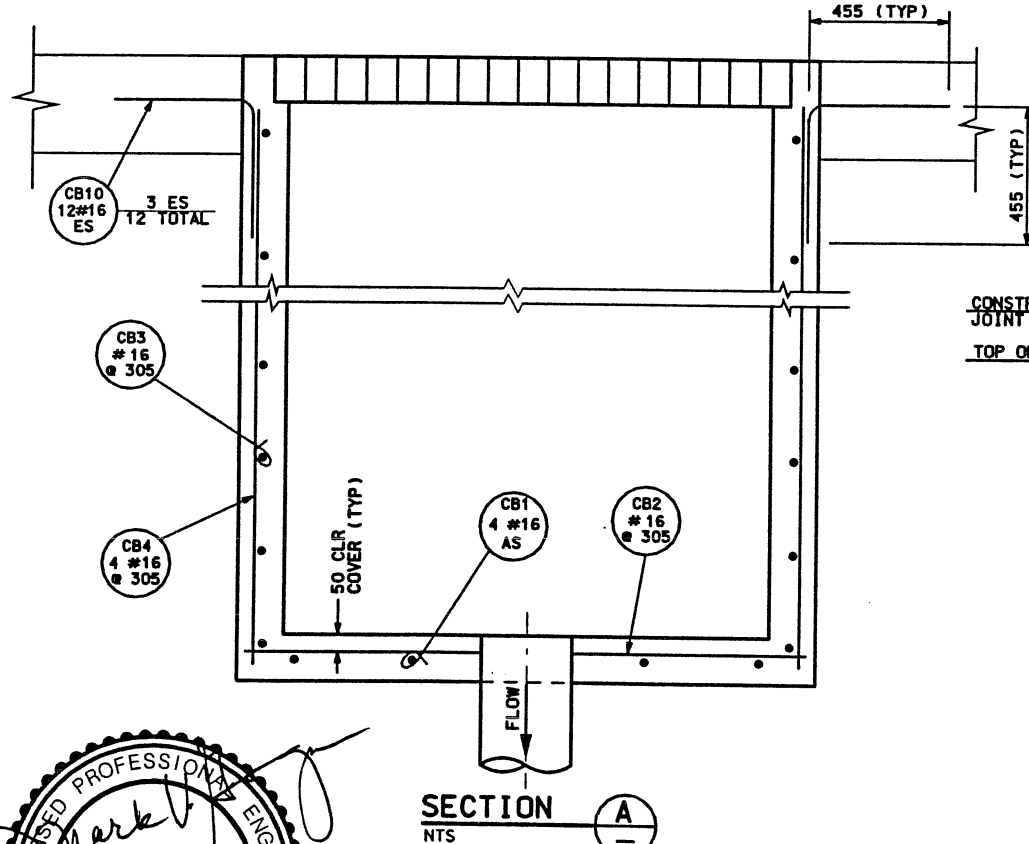


PLAN VIEW AT PIPE CENTERLINE
NTS

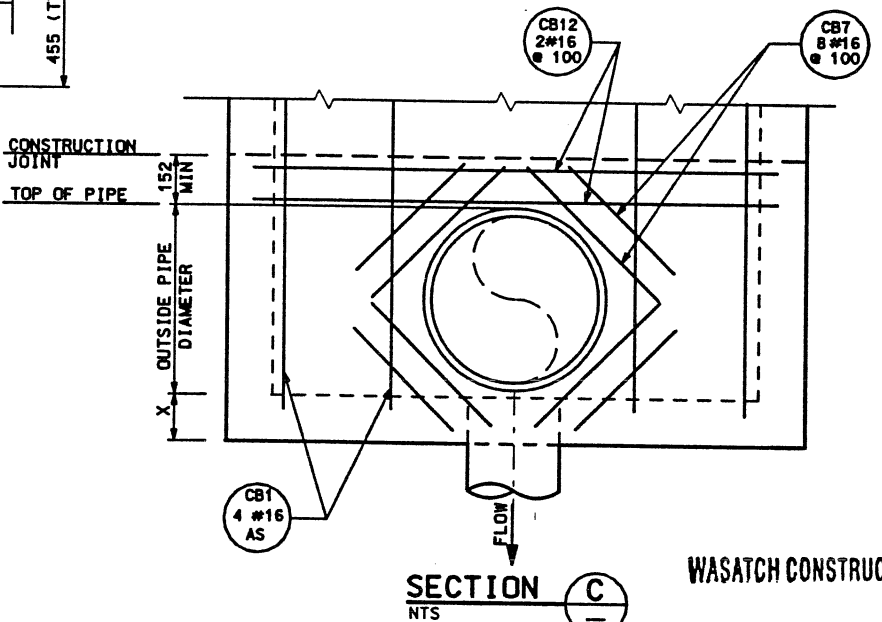


SECTION B
NTS



SECTION A
NTS

* 325 DIMENSION IS GIVEN FOR INTEGRAL CONSTRUCTION OF CATCH BASIN LID WITH ROADWAY PCCP. MINIMUM REQUIRED THICKNESS OF LID IS 305. IF MINIMUM IS USED, ADJUST 'K' DIMENSION ACCORDINGLY; 'H' REMAINS THE SAME.



SECTION C
NTS

CATCH BASIN CONSTRUCTION OPTION 1

CONSTRUCTION TABLE - COLUMN 'A'

LINE	# OF MANHOLE STEPS	DIMENSIONS			
		H	K	T	X
1		1194	691	1	178
2		1346	843	1	178
3		1499	996	1	178
4		1651	1148	1	178
5		1803	1300	1	178
6		1956	1453	1	178
7		2108	1605	1	178
8		2261	1758	1	178
9		2413	1910	1	178
10		2566	2063	1	178
11		2718	2215	1	178
12		2871	2368	1	178
13		3023	2520	1	178
14		3176	2673	1	178
15		3328	2825	1	178
16		3481	2978	1	178
17		3633	3130	1	178
18		3786	3283	1	178
19		3938	3435	1	178
20		4091	3588	1	178
21		4243	3740	1	178
22		4396	3893	1	178
23		4548	4045	1	178
24		4701	4198	1	178
25		4853	4350	1	178
26		5006	4503	1	178
27		5158	4655	1	178
28		5311	4808	1	178
29		5463	4960	1	178
30		5616	5113	1	178
31		5768	5265	1	178
32		5921	5418	1	178
33		6073	5570	1	178
34		6226	5723	1	178
35		6378	5875	1	178
36		6531	6028	1	178
37		6683	6180	1	178
38		6836	6333	1	178
39		6988	6485	1	178
40		7141	6638	1	178
41		7293	6790	1	178
42		7446	6943	1	178
43		7598	7095	1	178
44		7751	7248	1	178
45		7903	7400	1	178
46		8056	7553	1	178
47		8208	7705	1	178
48		8361	7858	1	178
49		8513	8010	1	178
50		8666	8163	1	178
51		8818	8315	1	178
52		8971	8468	1	178
53		9123	8620	1	178
54		9276	8773	1	178

BARRIER REINFORCING STEEL SCHEDULE

MARK	BAR SPACING	SIZE NO.	NO. BARS	LENGTH	SKETCH
CB1	AS SHOWN	16	4	VARIES	
CB2	@ 305	16	-	VARIES	
CB3	@ 305	16	-	VARIES	
CB4	AS SHOWN	16	8	VARIES	
CB7	@ 100	16	8	VARIES	
CB8	@ 305	19	-	VARIES	
CB9	@ 305	19	-	VARIES	
CB10	AS SHOWN	16	12	910	
CB11	@ 50	13	8	VARIES	
CB12	@ 100	16	2	VARIES	

WASATCH CONSTRUCTORS
APR 14 1998
RELEASED FOR CONSTRUCTION



APPROVED FOR CONSTRUCTION

NO. DATE 3/30/98 ORIGINAL RELEASE.

UTAH DEPARTMENT OF TRANSPORTATION

SYVERDRUP/DE LEUW

DESIGN INVO 3/78 CHECK INVO 3/78 TRACKING NO. 23134

DESIGN ENGINEER MARK V. GOGA PROJECT DESIGN ENGINEER JOHN TERRY SECTION MANAGER

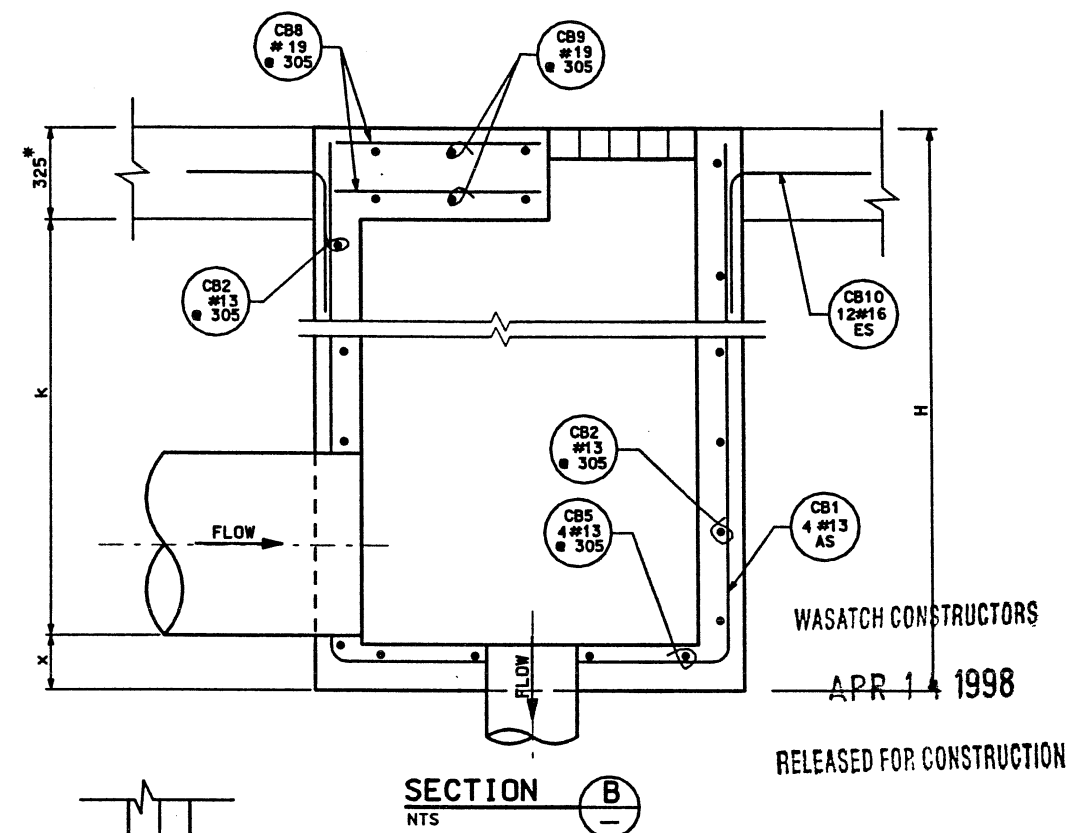
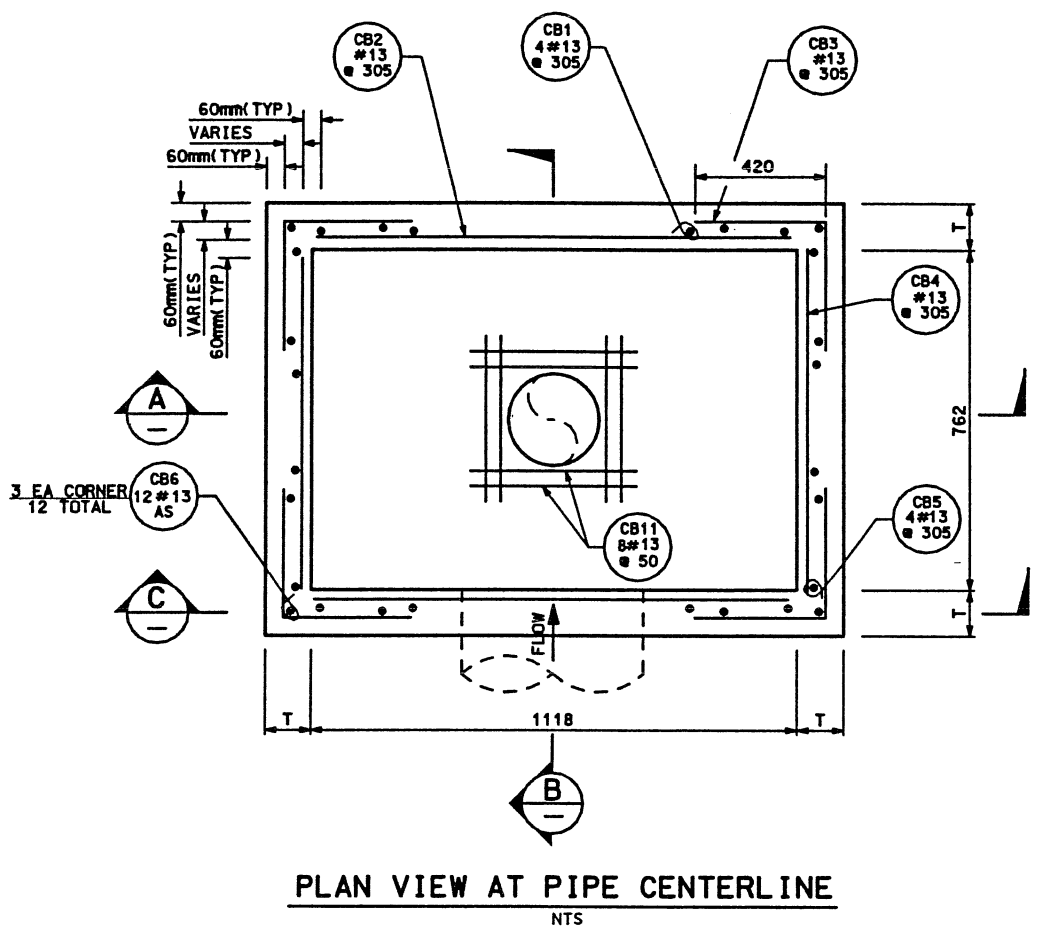
APPROVED 3/30/98 DATE 3/30/98 QUANT. N/A

I-15 CORRIDOR RECONSTRUCTION CATCH BASIN DETAIL - OPTION 1

CORRIDOR STANDARD PLAN PROJECT NUMBER #SP-15-7(135)296

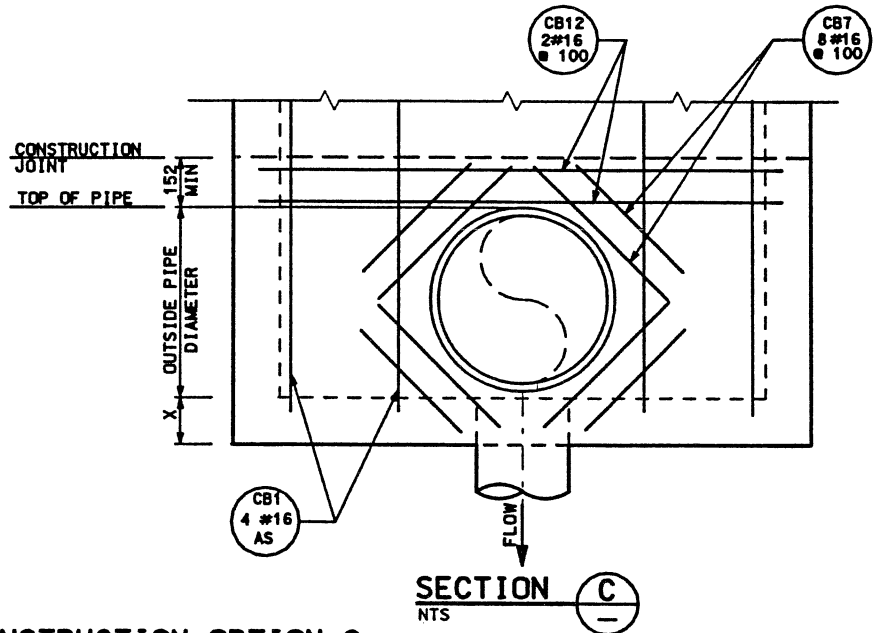
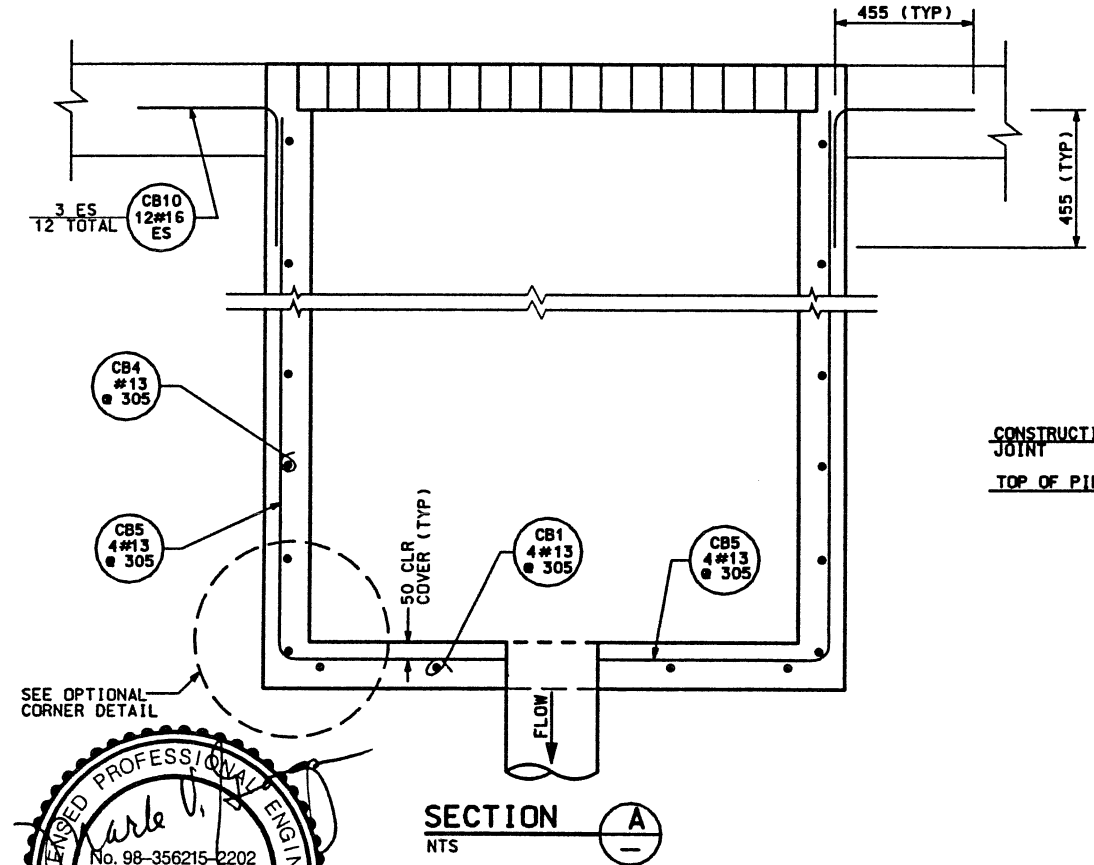
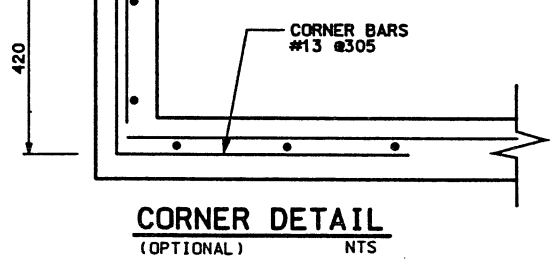
SALT LAKE COUNTY DWG. NO. CS-21-3

SHT. OF

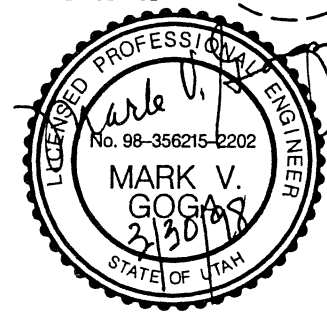


SECTION B
NTS

* 325 DIMENSION IS GIVEN FOR INTEGRAL CONSTRUCTION OF CATCH BASIN LID WITH ROADWAY PCCP. MINIMUM REQUIRED THICKNESS OF LID IS 305. IF MINIMUM IS USED, ADJUST 'K' DIMENSION ACCORDINGLY; 'H' REMAINS THE SAME.



CATCH BASIN CONSTRUCTION OPTION 2



WASATCH CONSTRUCTORS
APR 1 1998
RELEASED FOR CONSTRUCTION

LINE	# OF MANHOLE STEPS	H	K	T	X
1	1	1194	691	152	229
2	2	1346	843	152	229
3	3	1499	996	152	229
4	4	1651	1148	152	229
5	5	1803	1300	152	229
6	6	1956	1453	152	229
7	7	2108	1605	152	229
8	8	2286	1758	152	229
9	9	2438	1910	152	229
10	10	2590	2062	152	229
11	11	2743	2215	152	229
12	12	2895	2367	152	229
13	13	3048	2520	152	229
14	14	3200	2672	152	229
15	15	3352	2824	152	229
16	16	3505	2977	178	229
17	17	3657	3129	178	229
18	18	3810	3282	178	229
19	19	3962	3434	178	229
20	20	4114	3586	178	229
21	21	4267	3739	178	229
22	22	4419	3891	203	229
23	23	4572	4044	203	229
24	24	4724	4196	203	229
25	25	4876	4348	203	229
26	26	5029	4501	203	229
27	27	5181	4653	203	229
28	28	5334	4806	203	229
29	29	5486	4958	203	229
30	30	5638	5110	203	229
31	31	5791	5263	203	229
32	32	5943	5415	203	229
33	33	6096	5568	203	229
34	34	6248	5720	203	229
35	35	6401	5873	203	229
36	36	6553	6025	203	229
37	37	6706	6178	203	229
38	38	6858	6330	203	229
39	39	7011	6483	203	229
40	40	7163	6635	203	229
41	41	7316	6788	203	229
42	42	7468	6940	203	229
43	43	7621	7093	203	229
44	44	7773	7245	203	229
45	45	7926	7398	203	229
46	46	8078	7550	203	229
47	47	8231	7703	203	229
48	48	8383	7855	203	229
49	49	8536	8008	203	229
50	50	8688	8160	203	229
51	51	8841	8313	203	229
52	52	8993	8465	203	229
53	53	9146	8618	203	304
54	54	9298	8770	203	307

MARK	BAR SPACING	SIZE NO.	NO. BARS	LENGTH	SKETCH
CB1	AS SHOWN	13	8	VARIES	
CB2	@ 305	13	-	VARIES	
CB3	@ 305	13	-	840	
CB4	@ 305	13	-	VARIES	
CB5	@ 100	13	8	VARIES	
CB6	@ 100	13	8	VARIES	
CB7	@ 100	16	8	VARIES	
CB8	@ 305	19	-	VARIES	
CB9	@ 305	19	-	VARIES	
CB10	AS SHOWN	16	12	910	
CB11	@ 50	13	8	VARIES	
CB12	@ 100	16	2	VARIES	

APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW

I-15 CORRIDOR RECONSTRUCTION

CATCH BASIN DETAIL - OPTION 2

CORRIDOR STANDARD PLAN

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

SALT LAKE COUNTY

DWG. NO. CS-21-4

SHT. OF

NO.	DATE	DESCRIPTION
1	3/30/98	ORIGINAL RELEASE.

DESIGN	CHECK	DATE
MARK V. GOGGIN		
PROJECT DESIGN ENGINEER	DATE	
JOHN TERRY		
SECTION MANAGER	DATE	

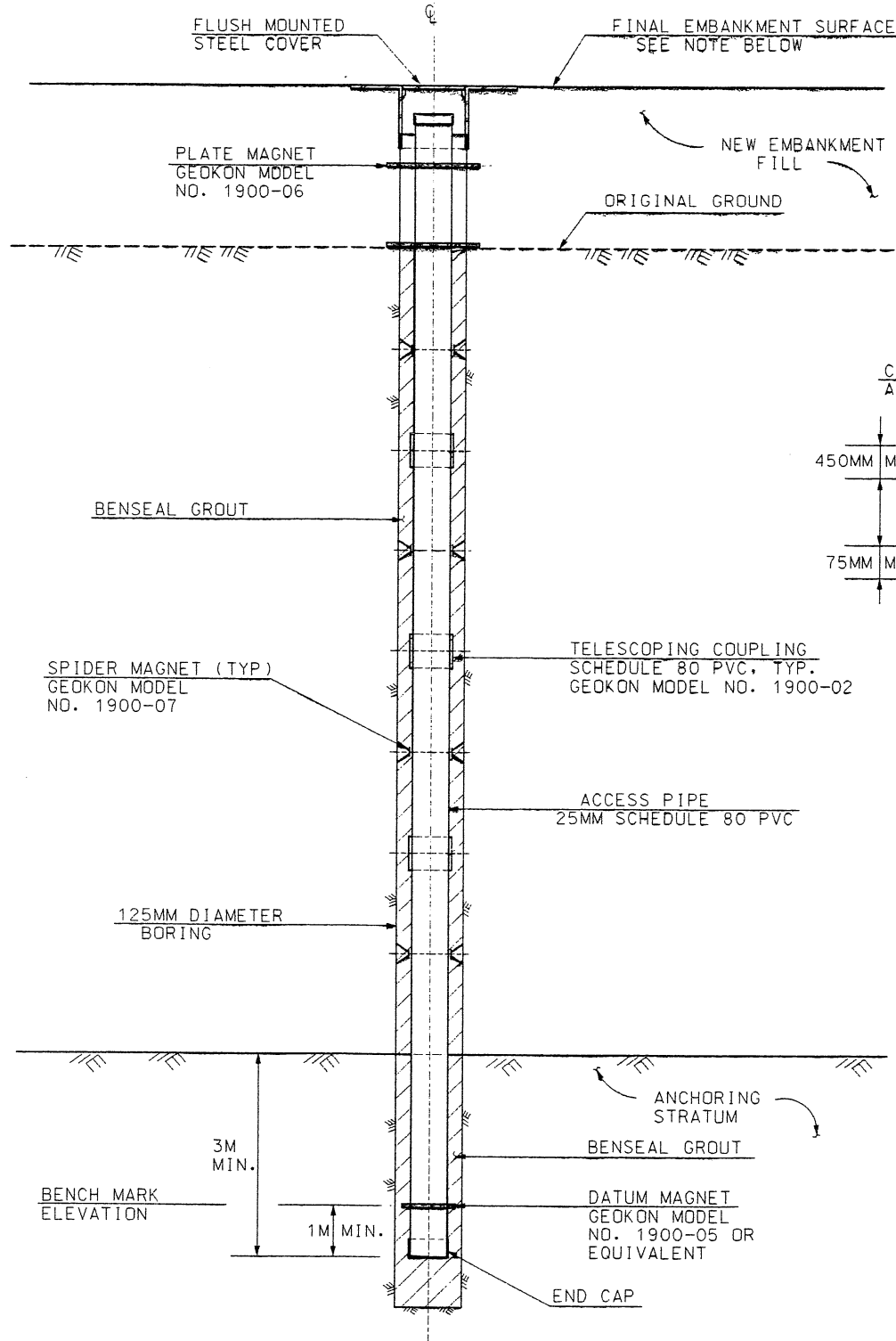
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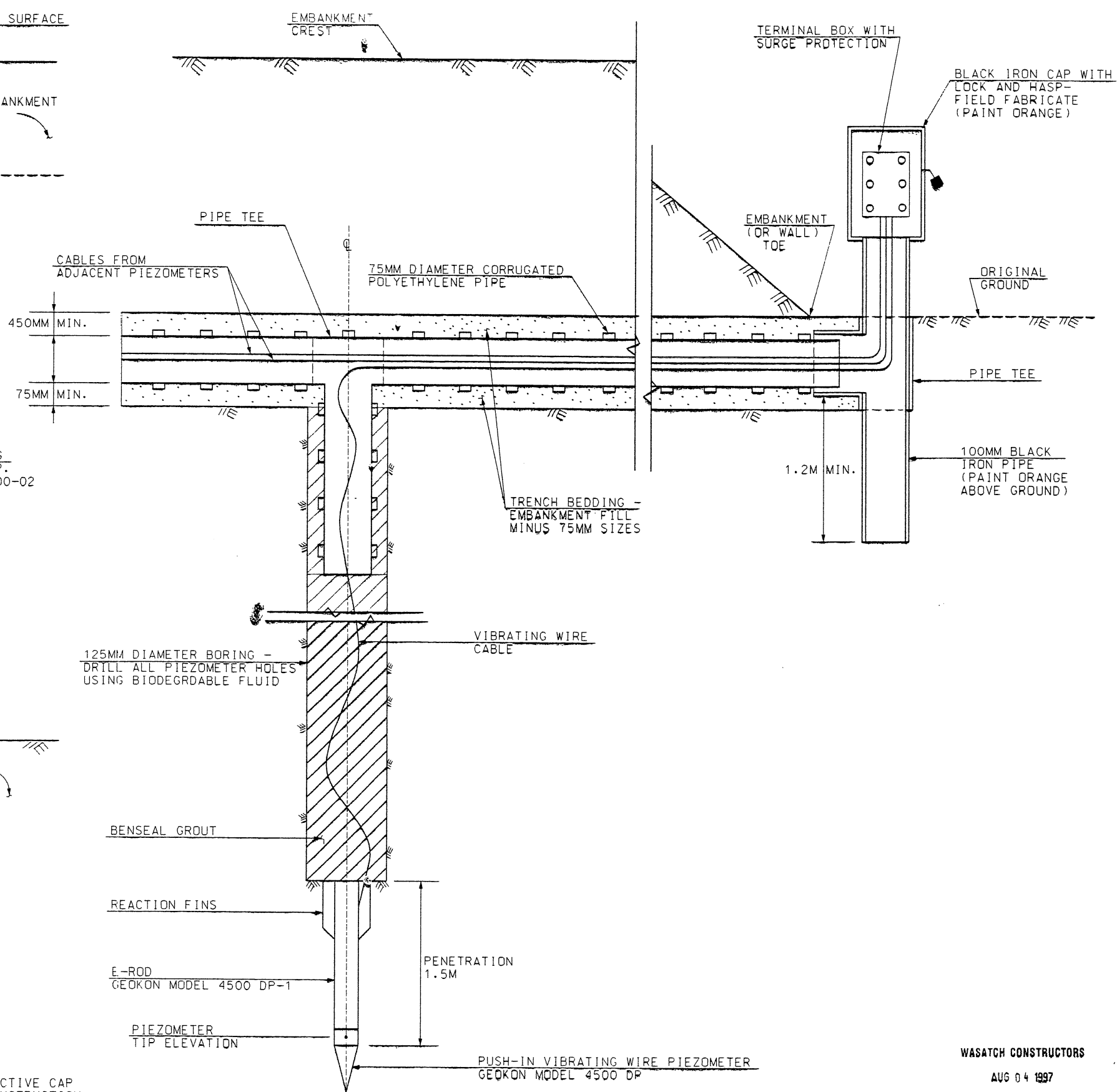
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Filename: \$FILE\$



TYPICAL MAGNET/REED SWITCH GAGE DETAIL
 NOT TO SCALE

NOTE:
 USE TYPICAL INCLINOMETER PROTECTIVE CAP AND COVER DURING EMBANKMENT CONSTRUCTION. REPLACE WITH FLUSH-MOUNTED COVER FOR FINAL EMBANKMENT.



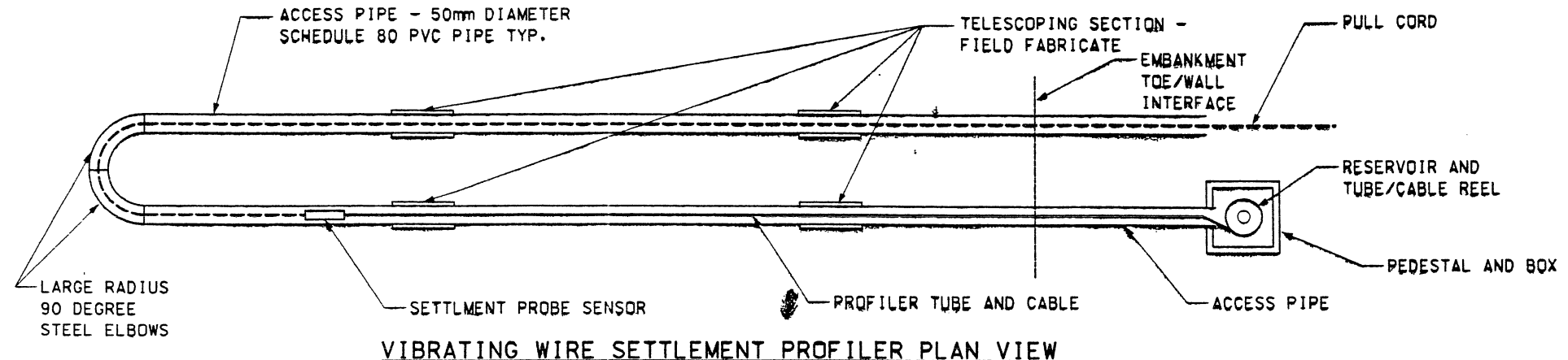
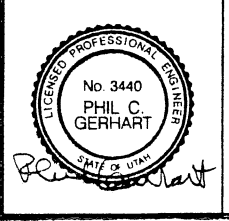
TYPICAL VIBRATING WIRE PIEZOMETER DETAIL
 NOT TO SCALE

WASATCH CONSTRUCTORS
 AUG 04 1997
 RELEASED FOR CONSTRUCTION

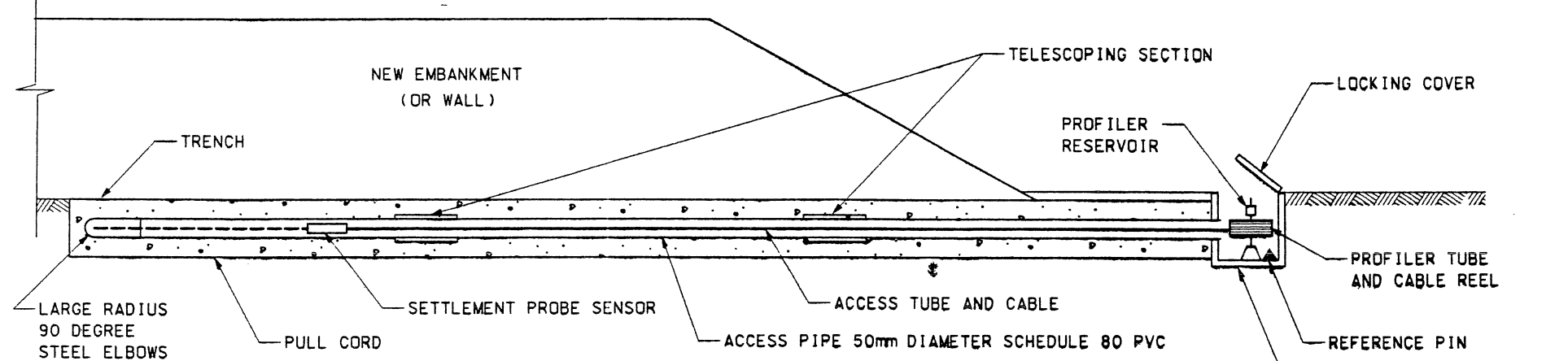
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UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
DESIGN	CJM	6/97	CHECK
PROJECT DESIGN ENGINEER	PHIL C. GERHART	DATE	6/23/97
APPROVED	JOHN TERRY	DATE	6/23/97
SECTION MANAGER		QUANT.	N/A
DESIGN	CJM	6/97	CHECK
DRAWN	VLK	6/97	CHECK
I-15 CORRIDOR RECONSTRUCTION			
INSTRUMENTATION DETAILS			
CORRIDOR STANDARD PLAN			
PROJECT NUMBER			
• SP-15-7(135)296			
SALT LAKE COUNTY			
DWG. NO. CS-24			
SHT. _____ OF _____			

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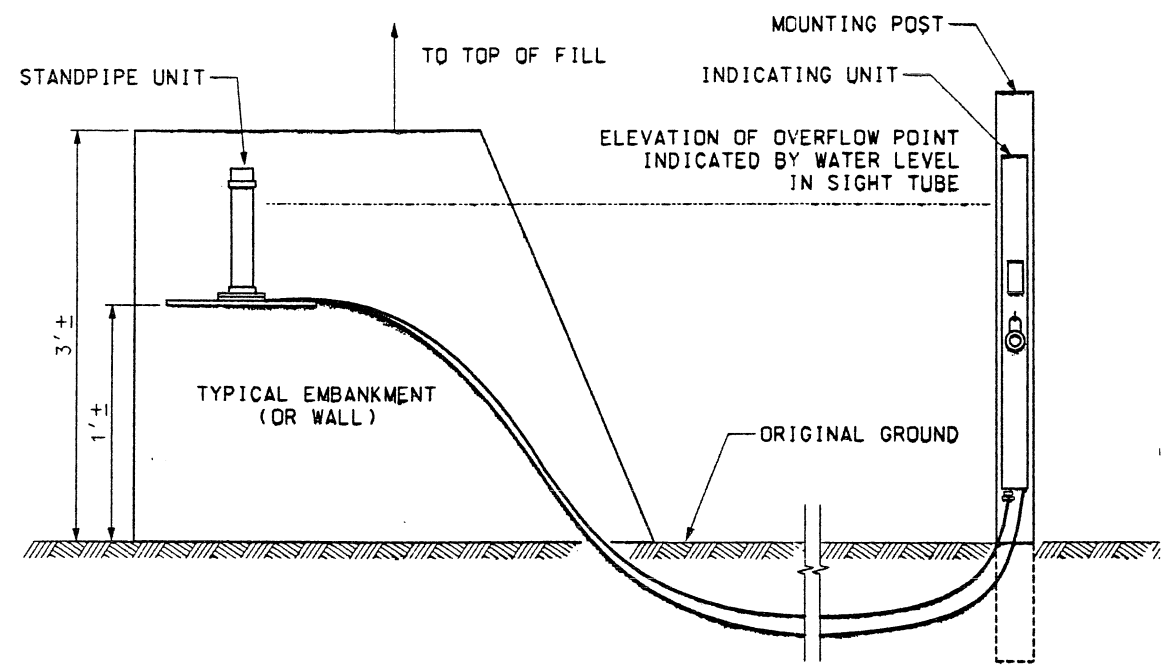
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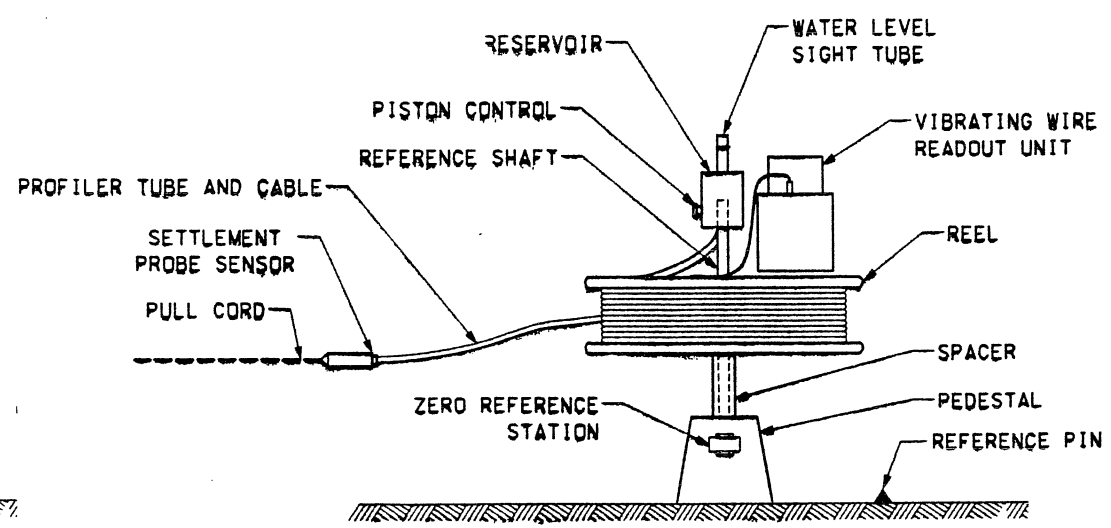
VIBRATING WIRE SETTLEMENT PROFILER PLAN VIEW



VIBRATING WIRE SETTLEMENT PROFILER SECTION



VENTED SETTLEMENT INDICATING DEVICE



VIBRATING WIRE SETTLEMENT PROFILER RESERVOIR AND TUBE/CABLE REEL

WASATCH CONSTRUCTORS
 AUG 4 1997
 RELEASED FOR CONSTRUCTION

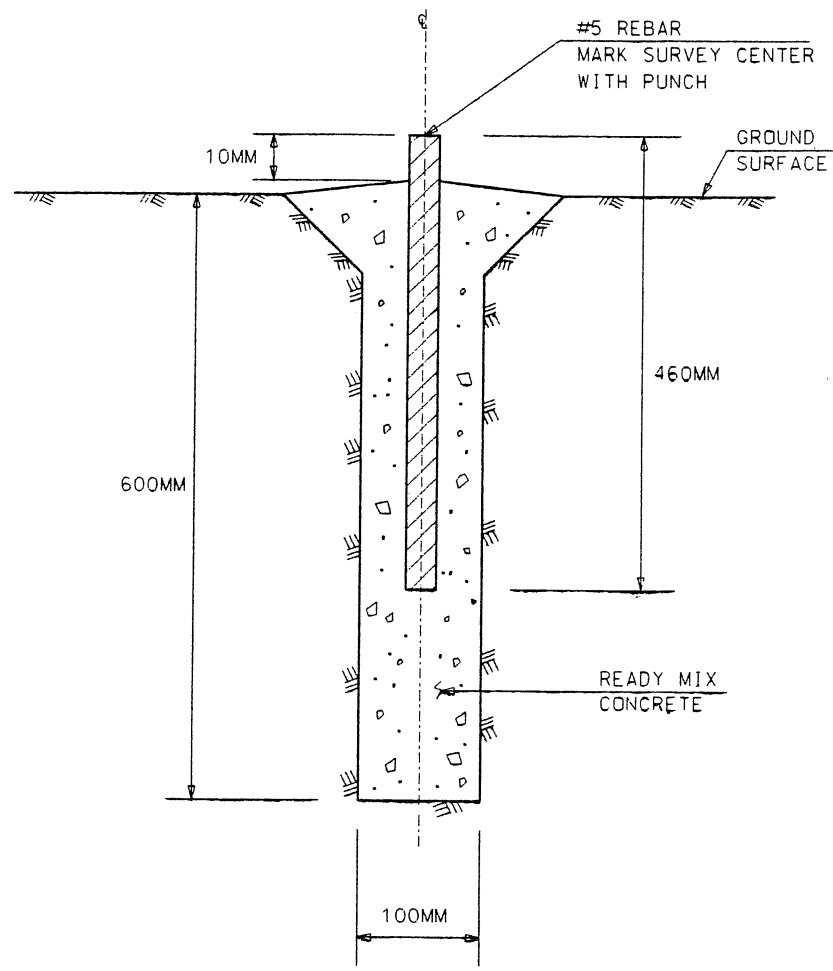
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NO.	DATE	NO.	DATE
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UTAH DEPARTMENT OF TRANSPORTATION			
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DRAWN - LFK		CHECK - LFK	
QUANT. - N/A		CHECK - N/A	
SVDRUP/DE LEUW			
APPROVAL RECORD	DATE	PHIL C. GERHART	PROJECT DESIGN ENGINEER
8/1/97		JOHN TERRY	SECTION MANAGER
APPROVED	DATE		
8/1/97			
I-15 CORRIDOR RECONSTRUCTION			
INSTRUMENTATION DETAILS			
CORRIDOR STANDARD PLAN			
PROJECT NUMBER	*SP-15-7(135)296		
SALT LAKE COUNTY		DWC. NO.	
CS-25			
SHT.	OF		

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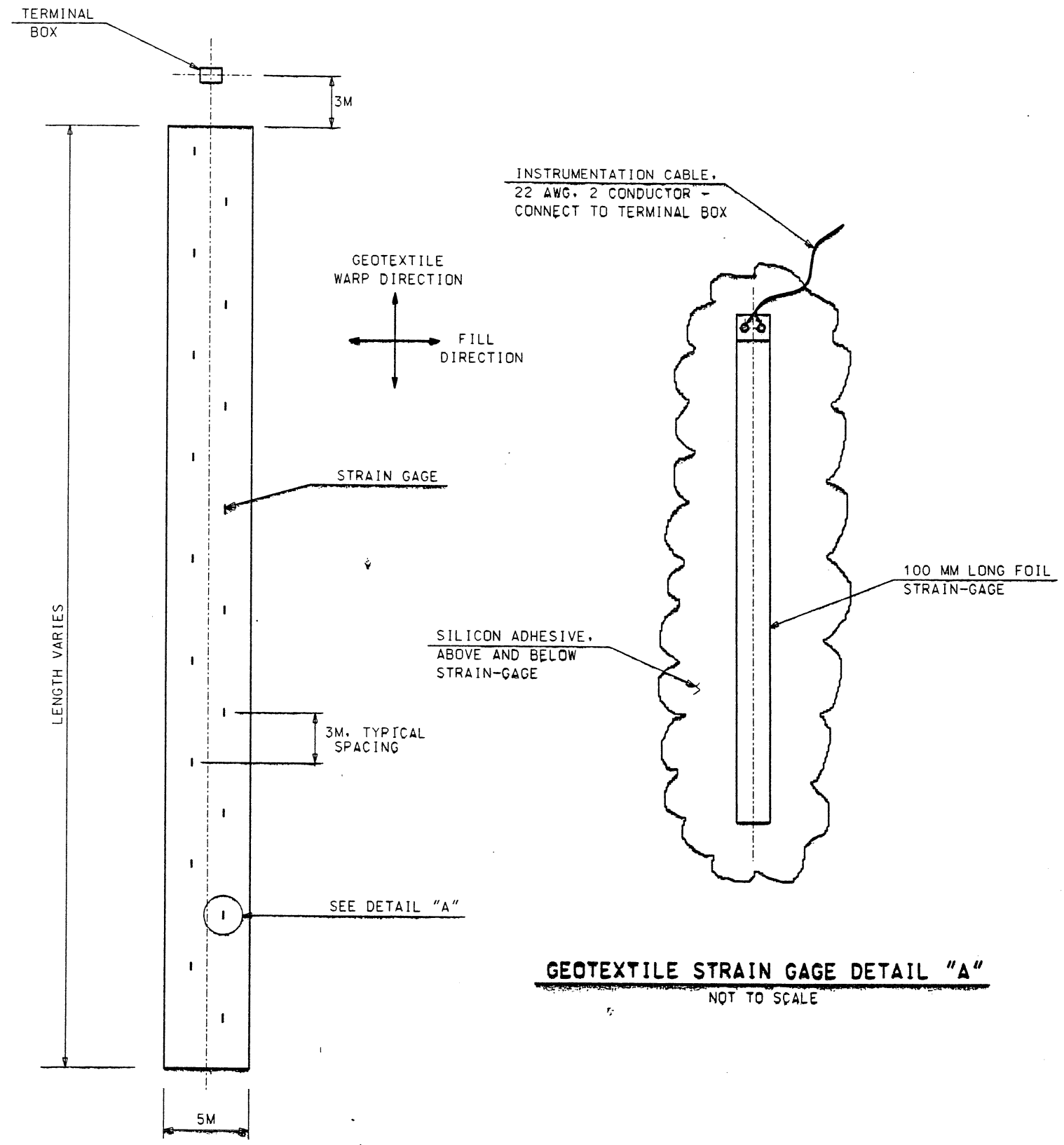
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SURVEY POINT DETAIL
NOT TO SCALE

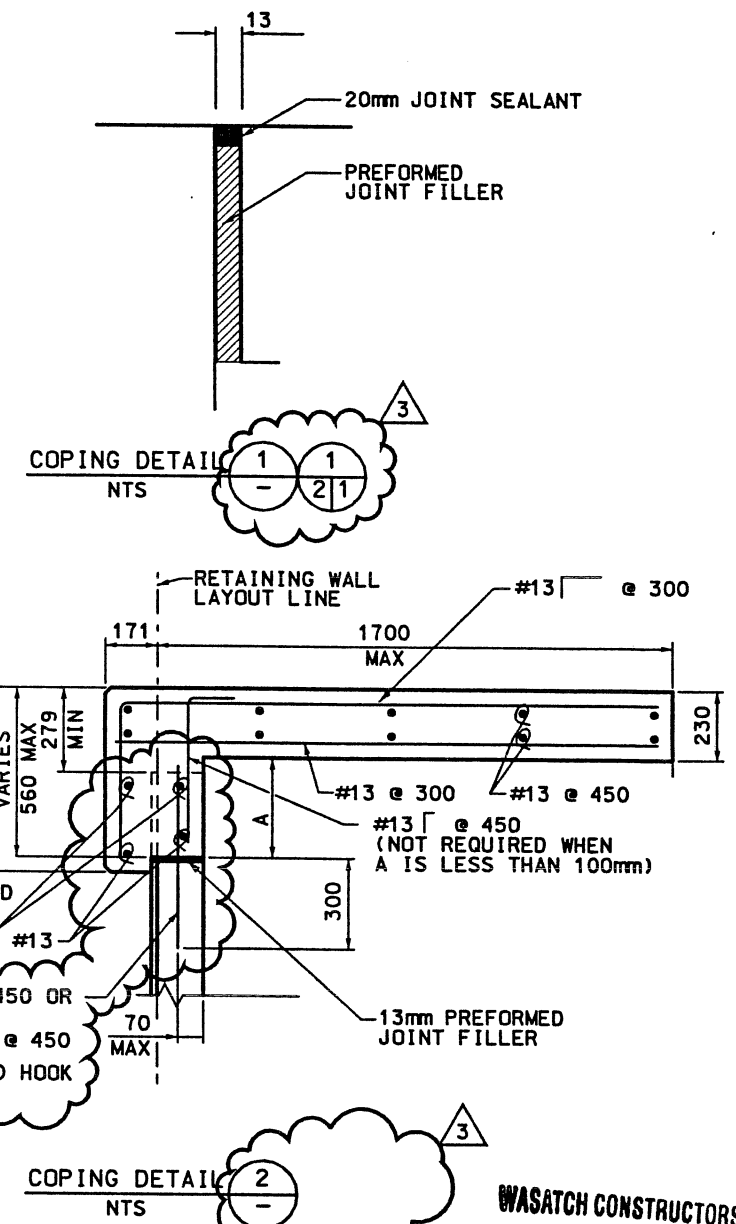
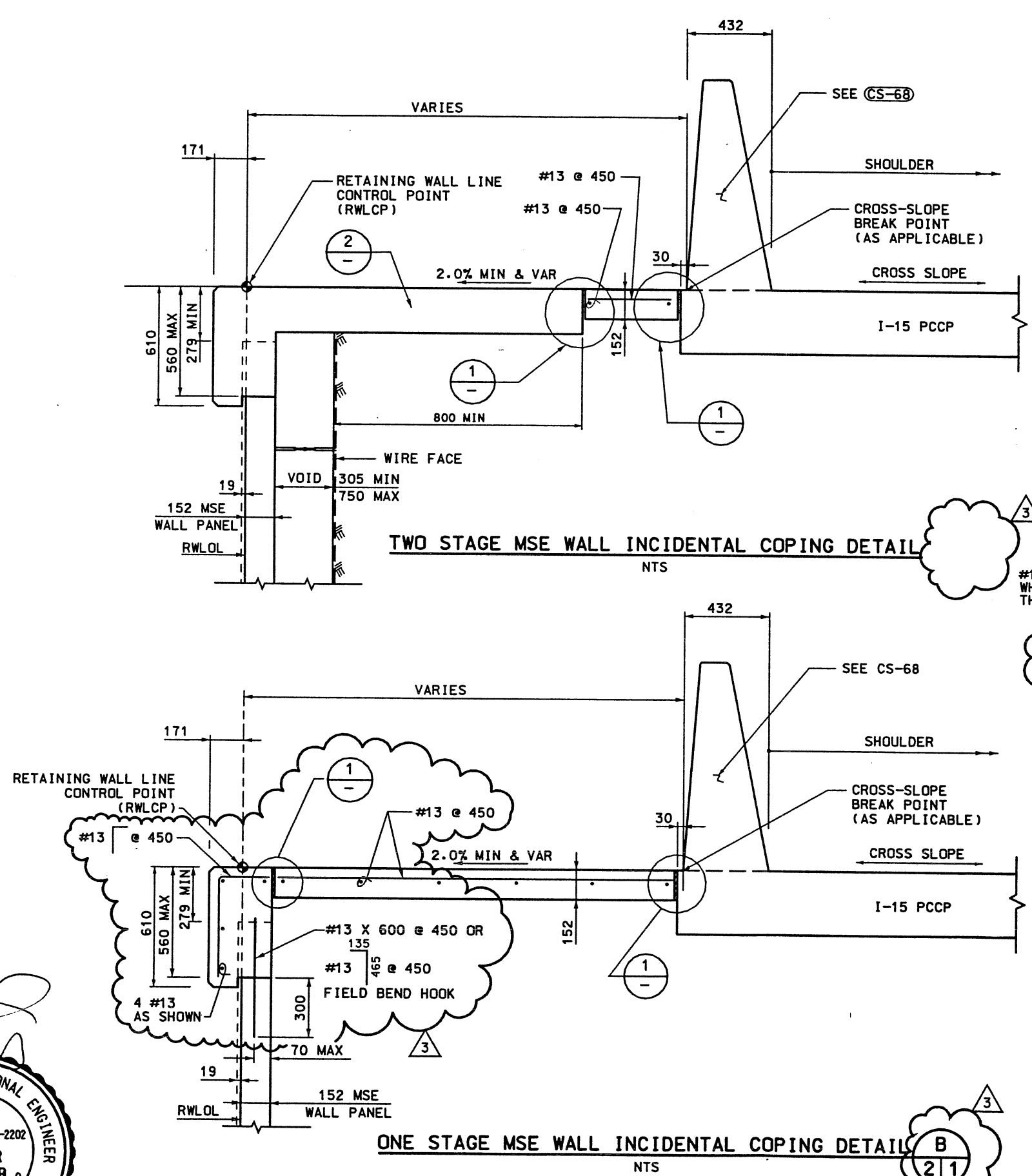
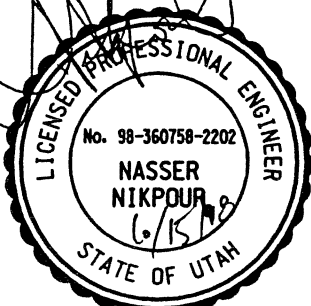


GEOTEXTILE STRAIN GAGE PLAN VIEW
NOT TO SCALE

GEOTEXTILE STRAIN GAGE DETAIL "A"
NOT TO SCALE

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	8/1/97	1	8/1/97
		INSTRUMENTATION RELEASED AS CORRIDOR STD.	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
APPROVAL RECORD	DATE	DESIGN	CHECK
PHIL C. GERHART	8/1/97	PHIL C. GERHART	7/97
PROJECT DESIGN ENGINEER	DATE	PROJECT DESIGN ENGINEER	DATE
JOHN TERRY	8/1/97	JOHN TERRY	7/97
SECTION MANAGER	DATE	SECTION MANAGER	DATE
I-15 CORRIDOR RECONSTRUCTION		PROJECT NUMBER	
INSTRUMENTATION DETAILS		*SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. CS-26			
SHT. ____ OF ____			

WASATCH CONSTRUCTORS
 AUG 04 1997
 RELEASED FOR CONSTRUCTION

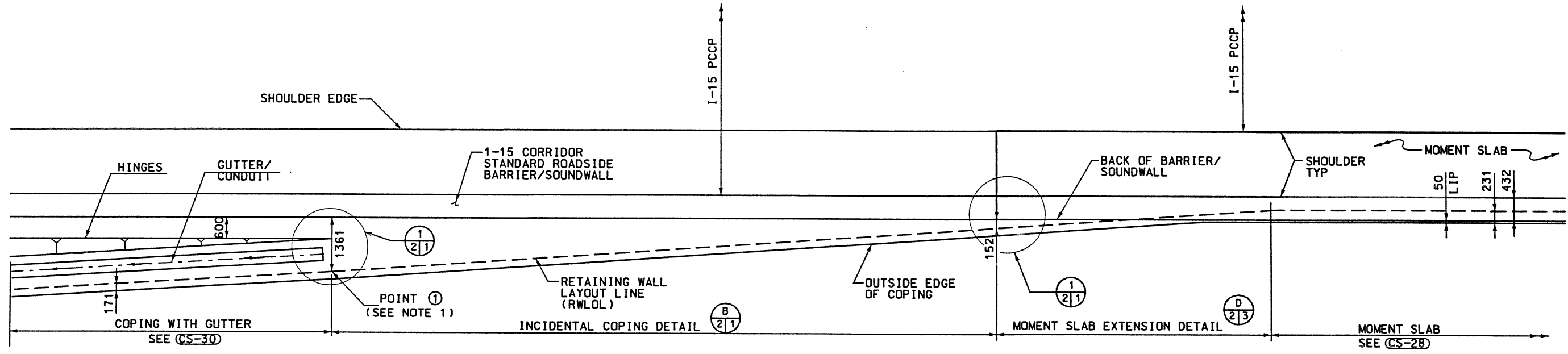


- NOTES:
- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'_c = 28 \text{ MPa}$. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm OR 13mm RADIUS. PROVIDE 50mm CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
 - 2) ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 - 3) GRANULAR BORROW OR MSE BACKFILL IS ACCEPTABLE UNDER INCIDENTAL COPING SLAB.
 - 4) DOWEL MAY BE CAST IN MSE WALL PANEL OR DRILL AND BONDED.

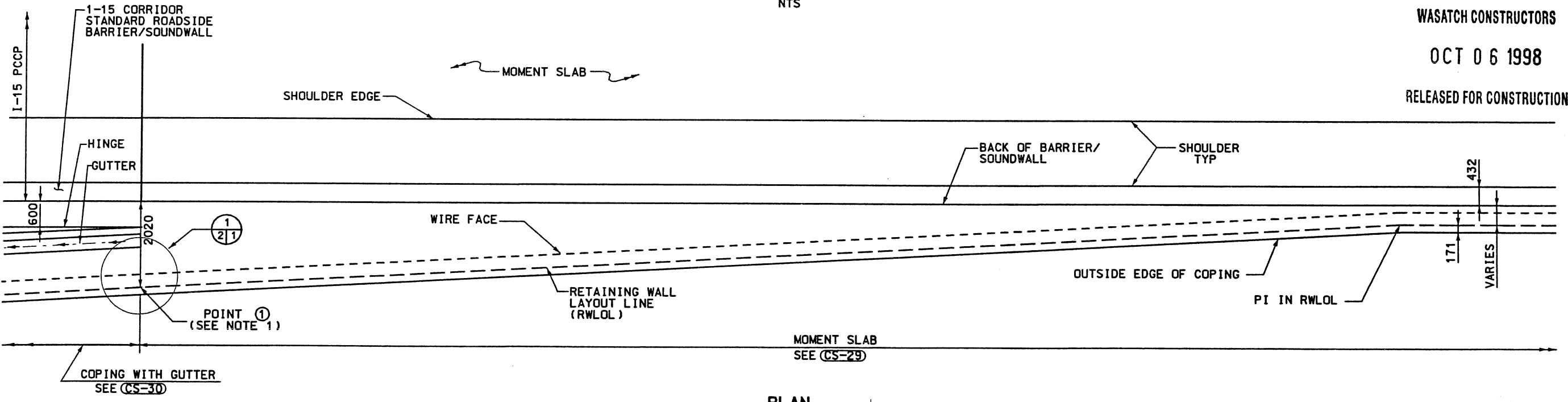
WASATCH CONSTRUCTORS
OCT 16 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
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B	08/18/98	TOTAL SHEET REPLACEMENT	
C	10/16/98	DOWEL REVISION AND SECTION LOCATIONS	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
DESIGN	DRN	CHECK	DATE
STANLEY POLJAK	08/98	JJ	
PROJECT DESIGN ENGINEER	DATE	CHECK	DATE
JAMES BLAIR	08/98	LT	
APPROVED	DATE	CHECK	DATE
08/14/98		SECTION MANAGER	
I-15 CORRIDOR RECONSTRUCTION			
MISCELLANEOUS COPING DETAILS			
CORRIDOR STANDARD PLAN			
PROJECT NUMBER	#SP-15-(135)296		
SALT LAKE COUNTY			
DWG. NO. CS-27-1			
SHT. OF			

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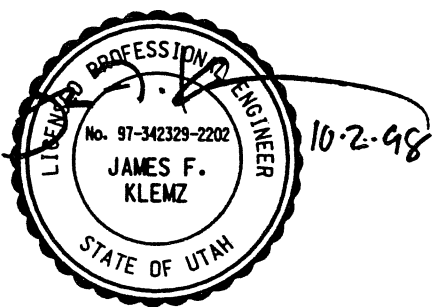


PLAN
ONE STAGE MSE WALL TRANSITION
NTS



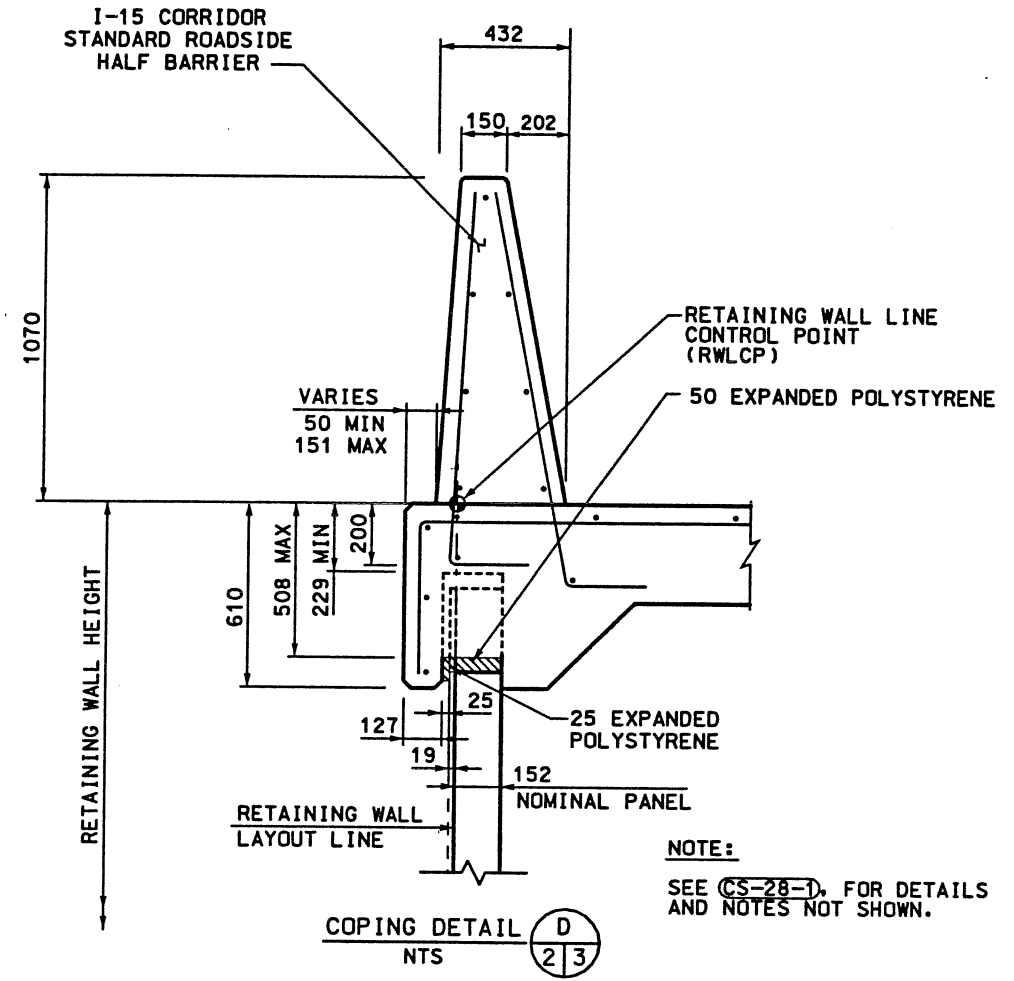
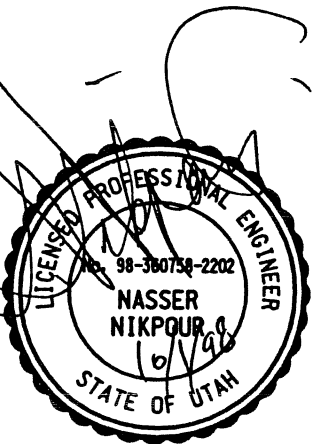
PLAN
TWO STAGE MSE TRANSITION
NTS

- NOTES:**
1. PROFILE LINE ON S&L WILL SWITCH FROM GUTTER COPING CONTROL POINT TO TOP OF INCIDENTAL COPING CONTROL POINT AT POINT ①.



WASATCH CONSTRUCTORS
OCT 06 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
Δ	10/02/98		ORIGINAL ISSUE
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		CHECK IN	DATE
DESIGN	SEP 08/98	CHECK	NOV 08/98
PROJECT DESIGN ENGINEER	STANLEY POLASKI	DRAW	VLR 08/98
DATE	08/21/98	QUANT.	JAMES KLEWZ
APPROVED	08/21/98	SECTION MANAGER	
DATE			
I-15 CORRIDOR RECONSTRUCTION		SECTION	
MISCELLANEOUS COPING DETAILS		#SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. CS-27-2			
SHT. _____		OF _____	



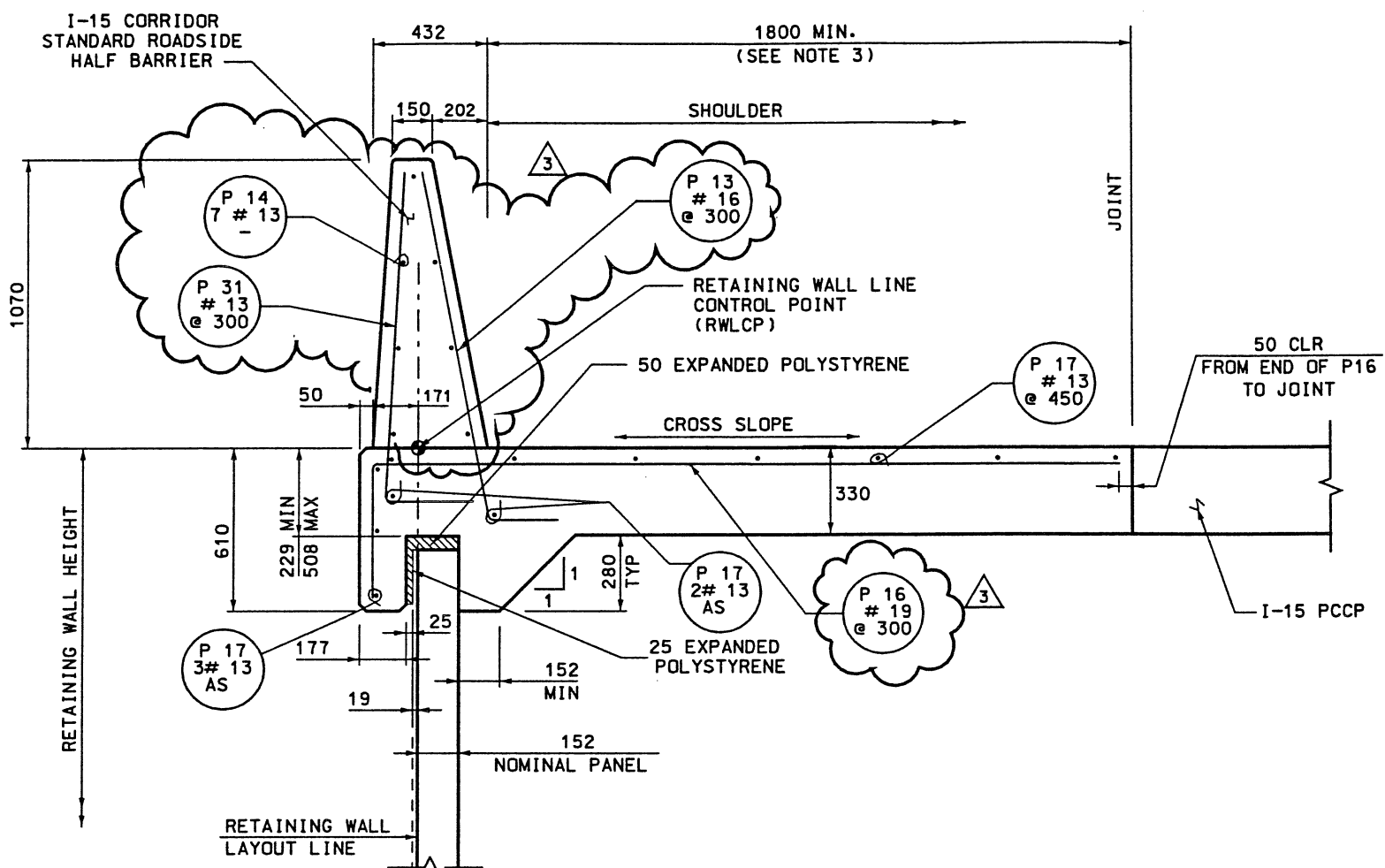
WASATCH CONSTRUCTORS
 OCT 06 1998
 RELEASED FOR CONSTRUCTION

NOTES:

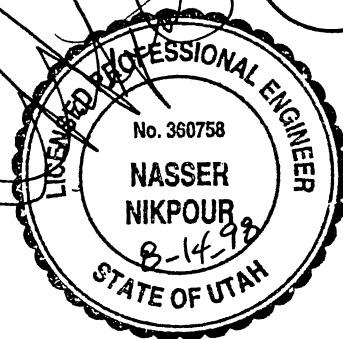
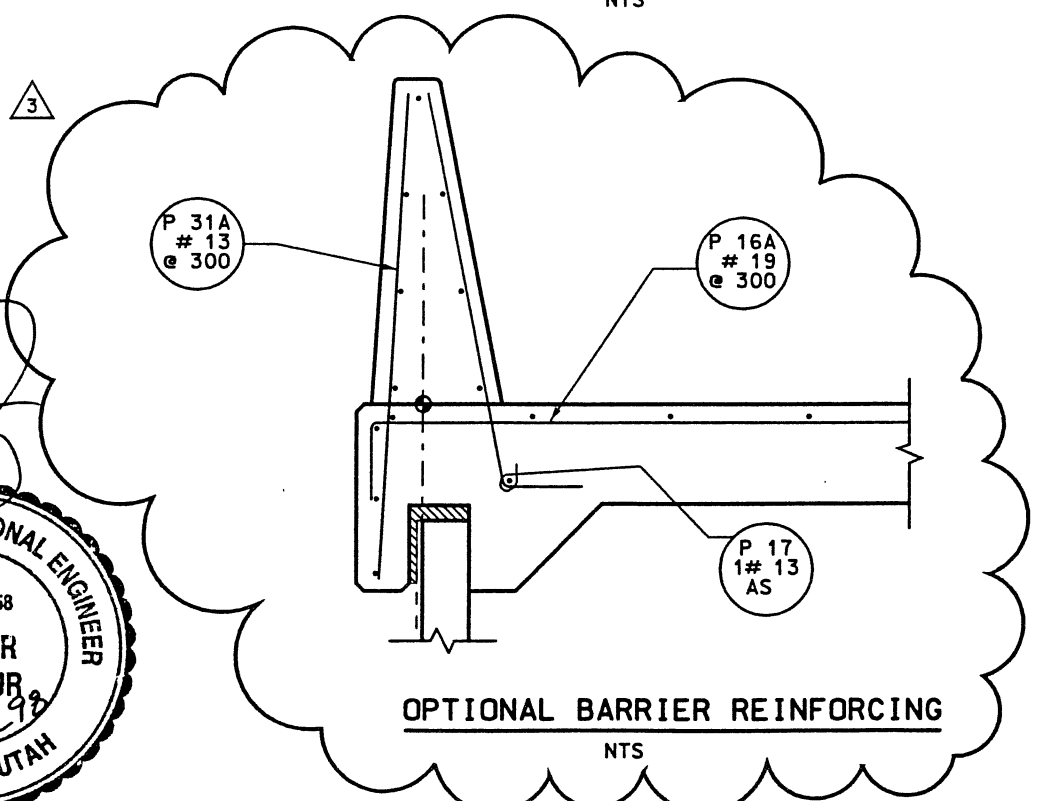
- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'_{c} = 28 \text{ MPa}$. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm OR 13mm RADIUS. PROVIDE 50mm CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
- 2) ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

I-15 CORRIDOR RECONSTRUCTION		UTAH DEPARTMENT OF TRANSPORTATION		APPROVED FOR CONSTRUCTION	
MISCELLANEOUS COPING DETAILS		SVERDRUP/DE LEUW		DESCRIPTION	
CORRIDOR STANDARD PLAN		DESIGN: SVP		NO. DATE	
PROJECT NUMBER #SP-15-7(135)296		DRAWN: SVP		10/02/98 INITIAL RELEASE	
SALT LAKE COUNTY		DATE: 08/10/98			
DWG. NO. CS-27-3		PROJECT DESIGN ENGINEER: STANLEY POLJAK			
SHT. OF		APPROVED: 08/10/98			
		DATE: 08/10/98			
		PROJECT MANAGER: JAMES BLEDSOE			
		SECTION MANAGER:			
		CHECK: SVP			
		CHECK: SVP			
		CHECK: SVP			

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MSE SINGLE STAGE WITH BARRIER ON MOMENT SLAB
NTS



BARRIER REINFORCING STEEL SCHEDULE				
MARK	LOCATION	SIZE NO.	LENGTH	SKETCH
P13	OUTSIDE BARRIER	16	1600	
P14	OUTSIDE LONGITUDINAL	13	VARIES	
P16	MOMENT SLAB TRANSVERSE	19	2690*	
P17	MOMENT SLAB LONGITUDINAL	13	VARIES	
P31	OUTSIDE BARRIER	13	1370	
P16A	MOMENT SLAB TRANSVERSE	19	2430*	
P31A	OUTSIDE BARRIER	13	1580	

* FOR MOMENT SLABS LESS THAN 10 METERS LONG, THE HORIZONTAL BAR LENGTH IS 2780mm. WASATCH CONSTRUCTORS

NOTES:

- 50mm MINIMUM COVER OVER REINFORCING. RELEASED FOR CONSTRUCTION
- ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'c = 28MPa$. CHAMFER ALL EXPOSED CORNERS 20mm OR 13mm RADIUS.
- IF MOMENT SLAB IS LESS THAN 10 METERS LONG THEN THE MINIMUM MOMENT SLAB WIDTH IS 2400 MIN AND NOT 1800 MIN.
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- CROSS SLOPE OF THE MOMENT SLAB SHALL MATCH THE ROADWAY CROSS SLOPE.

AUG 21 1998

APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW

I-15 CORRIDOR RECONSTRUCTION

BARRIER ON MOMENT SLAB

CORRIDOR STANDARD PLAN

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

SALT LAKE COUNTY

DWG. NO. CS-28-1

SHT. OF

NO.	DATE	DESCRIPTION
1	04/03/98	INITIAL RELEASE
2	06/30/98	BARRIER SHAPE REVISIONS
3	08/14/98	OPTIONAL BARRIER REINFORCEMENT AND NOTE REVISIONS

DESIGN MC 01/98 CHECK JJ 01/98

DRAWN VLR 01/98 CHECK MC 01/98

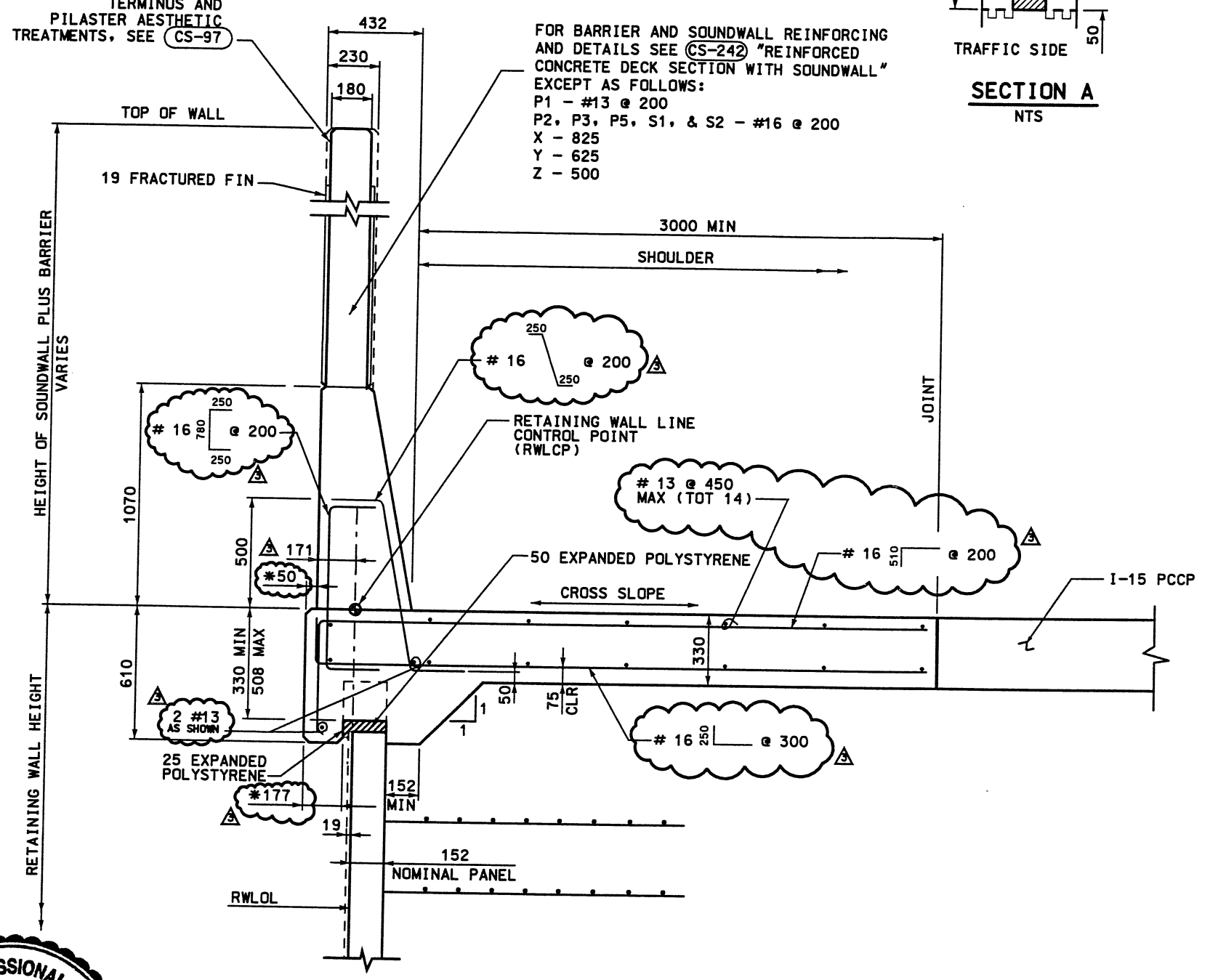
SECTION MANAGER JOSEPH JOHNSON

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Date: 25-JAN-2000 Time: 13:27

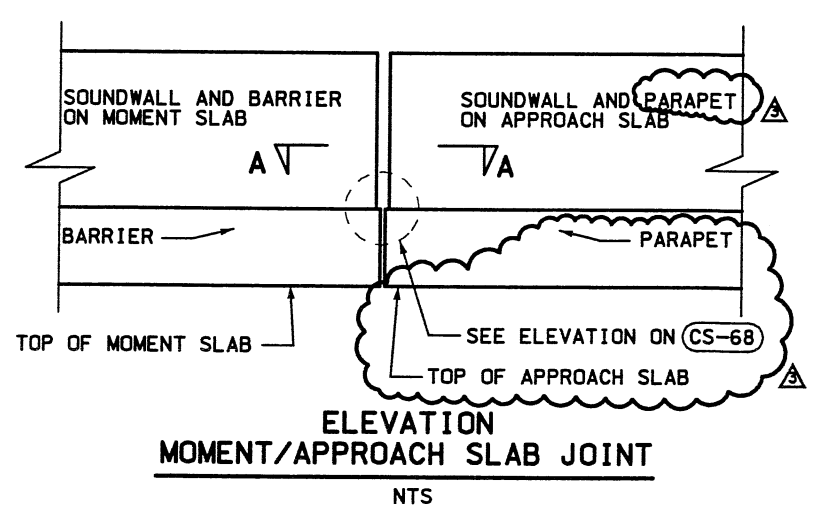
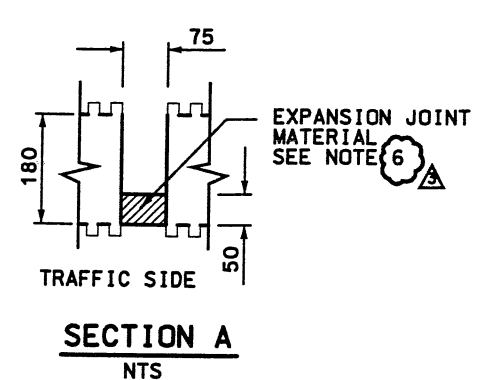
Username: framptrd

FRACTURED FIN, TERMINUS AND PILASTER AESTHETIC TREATMENTS, SEE (CS-97)



MSE SINGLE STAGE WITH SOUNDWALL AND BARRIER ON MOMENT SLAB
NTS

* 50mm LIP IS OPTIONAL TO EASE PLACEMENT OF FORMWORK. IF CONTRACTOR CHOOSES TO OMIT 50mm LIP, THEN 177mm COPING DIMENSION SHALL BE REVISED TO 127mm.



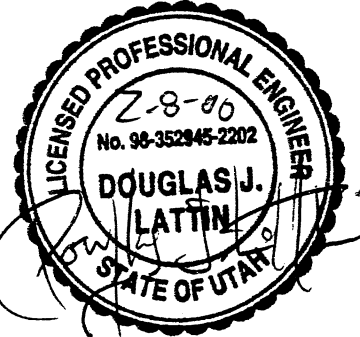
- NOTES:
- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT OTHERWISE NOTED, $f'c=28$ Mpa. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm or 13mm RADIUS. PROVIDE 50mm CONCRETE COVER TO REINFORCEMENT STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
 - 2) ALL DIMENSION ARE IN mm UNLESS OTHERWISE NOTED.
 - 3) MATCH ROADWAY CROSS SLOPES.
 - 4) EXPANSION JOINTS THROUGH WALL AND BARRIER SHALL BE LOCATED AT A MAXIMUM SPACING OF 30 METERS USING DETAIL 2 ON (CS-242).
 - 5) FOR SPACING AND DETAIL OF CONTRACTION JOINTS, SEE SHEET (CS-242).
 - 6) EXPANSION JOINT MATERIAL SHALL BE GREY COLORED "POLYTIGHT N" OR APPROVED EQUAL AFFIXED TO SOUNDWALL WITH EPOXY AS SUPPLIED BY THE MANUFACTURER.

WASATCH CONSTRUCTORS

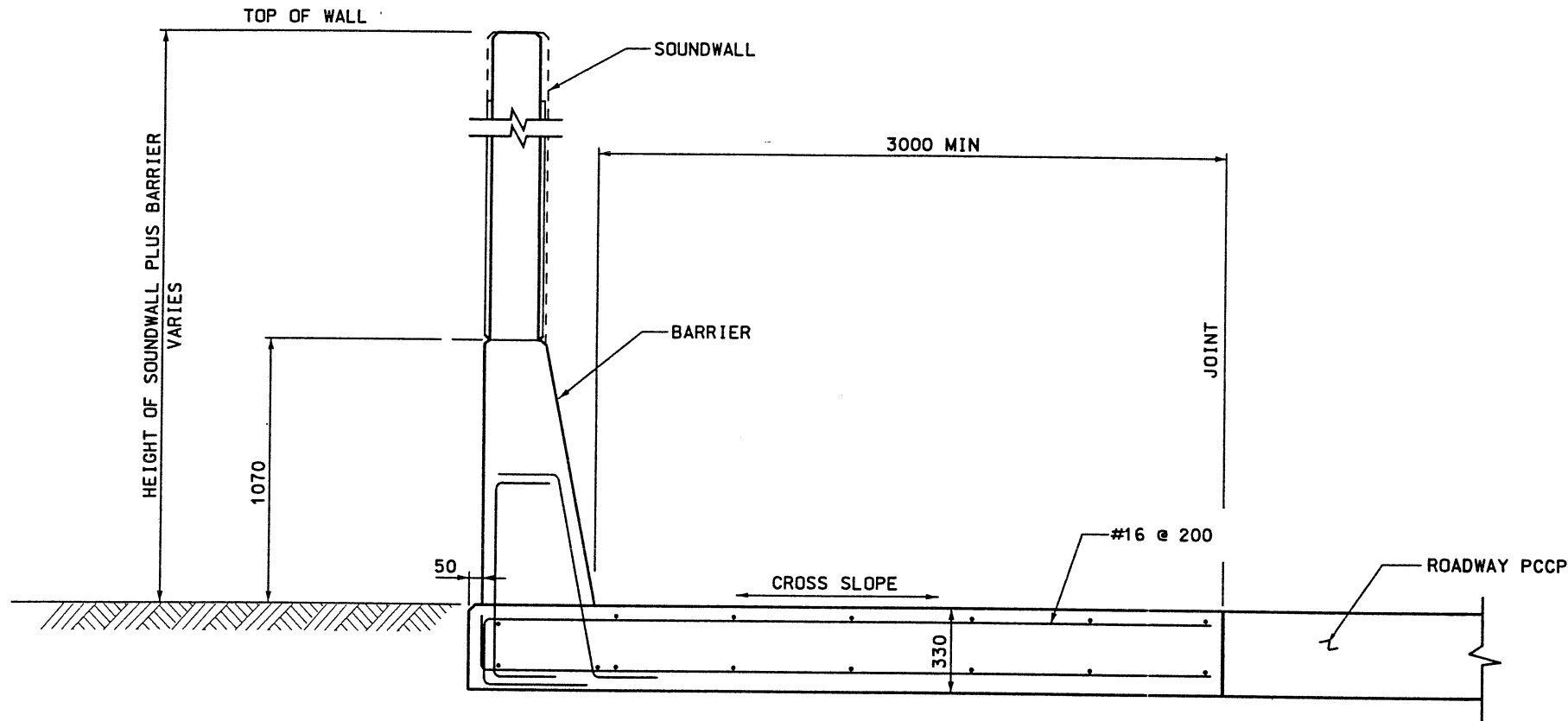
MAR 08 2000

RELEASED FOR CONSTRUCTION

RFC After Final Approval



APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	INITIAL	RELEASE
1	05/11/98		
2	06/05/98		WIDTH REVISIONS
3	12/10/98		REVISED NOTES-REBAR CALLOUTS AND COPING LIP FDC 1-0341
CLARIFY JT DETAILS FDC 7-0105			
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		CHECK	DATE
DESIGN	MC	01/98	06/98
DRAWN	MLR	01/98	01/98
QUANT.		CHECK	LT
			01/98
I-15 CORRIDOR RECONSTRUCTION		CORRIDOR STANDARD PLAN	
SOUNDWALL AND BARRIER		PROJECT NUMBER: *SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. CS-28-2			
SHT. _____ OF _____			

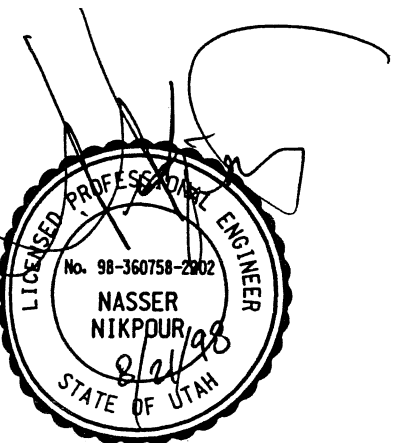


SOUNDWALL AND BARRIER ON MOMENT SLAB
NTS

NOTES:

FOR ADDITIONAL NOTES & REINFORCING SEE CS-28-2.

WASATCH CONSTRUCTORS
AUG 25 1998
RELEASED FOR CONSTRUCTION



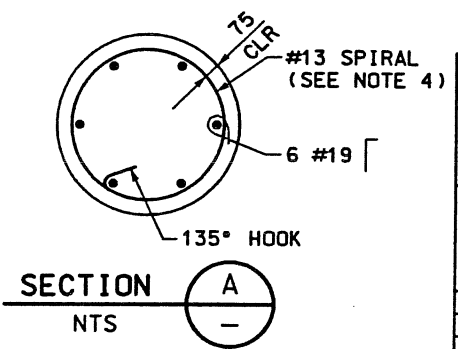
I-15 CORRIDOR RECONSTRUCTION		APPROVED FOR CONSTRUCTION	
SOUNDWALL AND BARRIER		NO.	DESCRIPTION
CORRIDOR STANDARD PLAN		DATE	INITIAL RELEASE
PROJECT NUMBER #SP-15-(135)296		08/21/98	
SALT LAKE COUNTY		SVERDRUP/DE LEUW	
DWG. NO. CS-28-4		DESIGN NO.	CHECK
SHT. OF		DRAWN	CHECK
		QUANT.	CHECK
		DATE	APPROVED
		DATE	SECTION MANAGER
		DATE	PROJECT DESIGN ENGINEER
		DATE	STAFF POLASIS

User name or aback

Date: 15-OCT-1998 Time: 12:46

X	MIN 'S' W/O CIDH CAISSON	MIN REQ'D LENGTH OF 400 DIA. CIDH CAISSON SPACED AT 3048 WITH:				X
		S=1800	S=2400	S=3000	S=3600	
-2000						-2000
-1500						-1500
-1400	S=2400	D=1800				-1400
-1300			D=1800			-1300
-1200				D=1800		-1200
-1100					D=1800	-1100
-1000	S=3000	D=2400				-1000
-900					D=1800	-900
-800						-800
-700	S=3600	D=3600				-700
-600						-600
-500	S=4000		D=2400			-500
-400				D=3600		-400
-300	S=4400				D=2400	-300
-200						-200
-100	S=4800				D=3600	-100
0						0
100	S=5200				D=3000	100
150						150

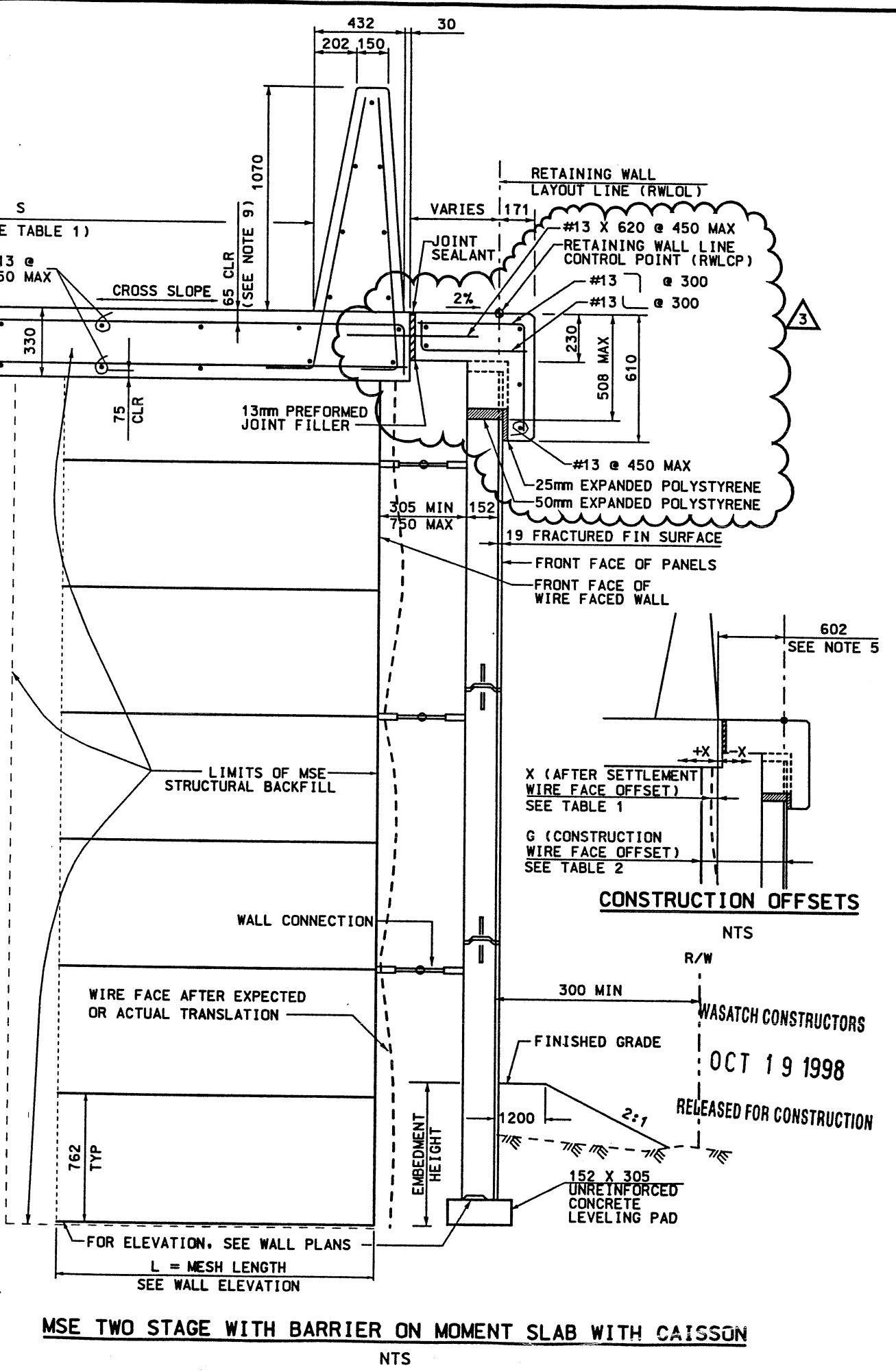
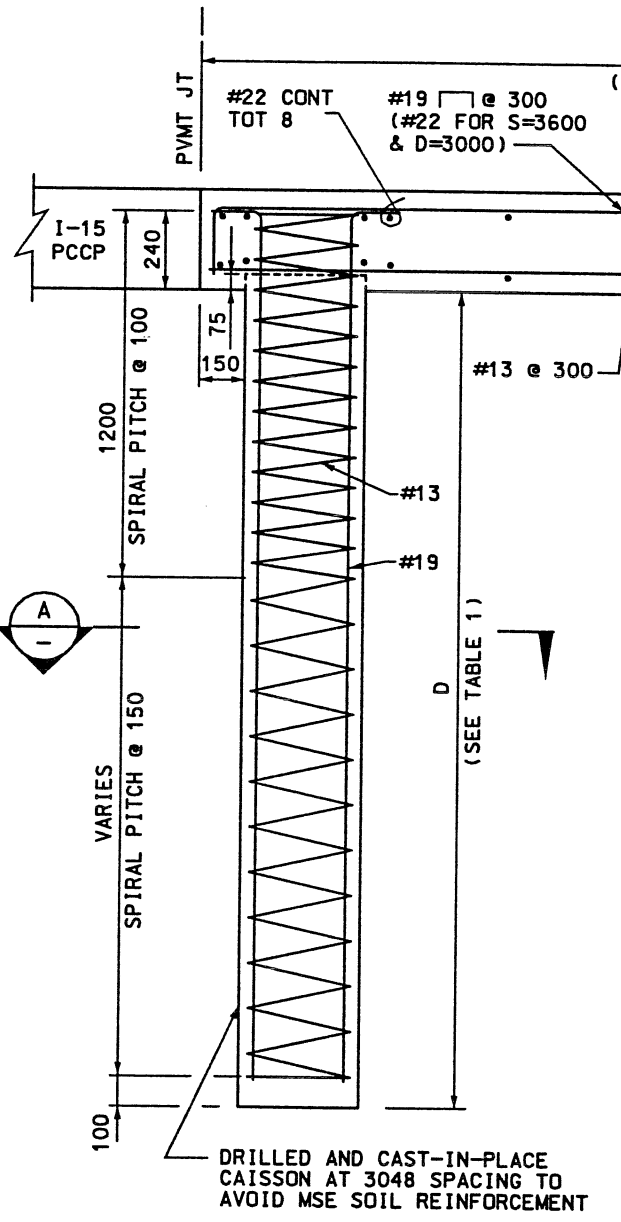
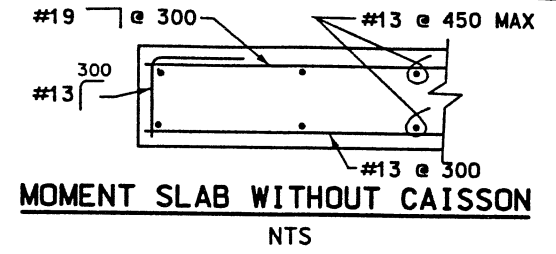
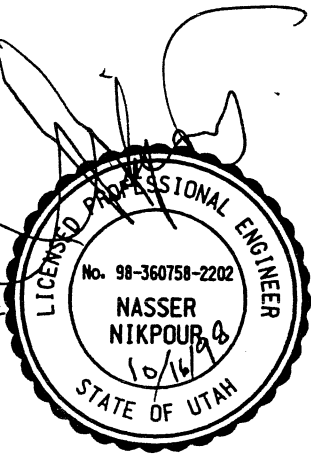
X: MAXIMUM DISTANCE FROM THE WIRE FACE TO BACK OF BARRIER WITHIN ANY 3000mm LONGITUDINAL SECTION OF WALL (NEGATIVE X VALUES INDICATE DISTANCES BEHIND BARRIER SEE CONSTRUCTION OFFSET DETAIL.)



HEIGHT PLUS SURCHARGE (METERS)	G (mm)
0 - 5	600
5 - 10	700
10 - 15	800
15 - 20	900

NOTES

- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'c = 28$ MPa. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm OR 13mm RADIUS. PROVIDE 50mm CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
- 2) ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
- 3) CROSS SLOPE OF THE MOMENT SLAB SHALL MATCH THE ROADWAY CROSS SLOPE.
- 4) WHERE SPLICES ARE REQUIRED, SPIRAL REINFORCEMENT SHALL BE LAPPED 80 DIAMETERS MINIMUM. A 135° HOOK THAT IS HOOKED AROUND A LONGITUDINAL BAR SHALL BE USED TO TERMINATE THE ENDS OF THE SPIRAL REINFORCEMENT AT LAPPED SPLICES AND AT THE TOP AND BOTTOM OF THE PILE.
- 5) FIRST STAGE WIRE FACE TO BE LOCATED AT AN OFFSET (G) FROM THE RWLOL, SEE TABLE 2. THE WIRE FACE AFTER SETTLEMENT WILL VARY BETWEEN 305mm AND 750mm MEASURED AT THE PANEL CONNECTORS. INITIALLY, THE DISTANCE BETWEEN THE BACK OF BARRIER AND RWLOL WILL BE 602mm.
- 6) SECOND STAGE WALL PANEL LOCATIONS WILL BE REVIEWED AFTER SETTLEMENT HAS OCCURED. WALL PANEL LOCATIONS MAY BE ADJUSTED TO PROVIDE ADEQUATE WALL CONNECTOR GAP.
- 7) GRANULAR BORROW OR MSE BACKFILL MATERIAL IS ACCEPTABLE FOR FULL DEPTH OF PAVEMENT UNDER MOMENT SLAB.
- 8) EDGE OF MOMENT SLAB SHALL BE PLACED AT THE PAVEMENT JOINTS. SEE ROADWAY PLANS.
- 9) INCLUDES 15mm FOR WEAR AND GRINDING.

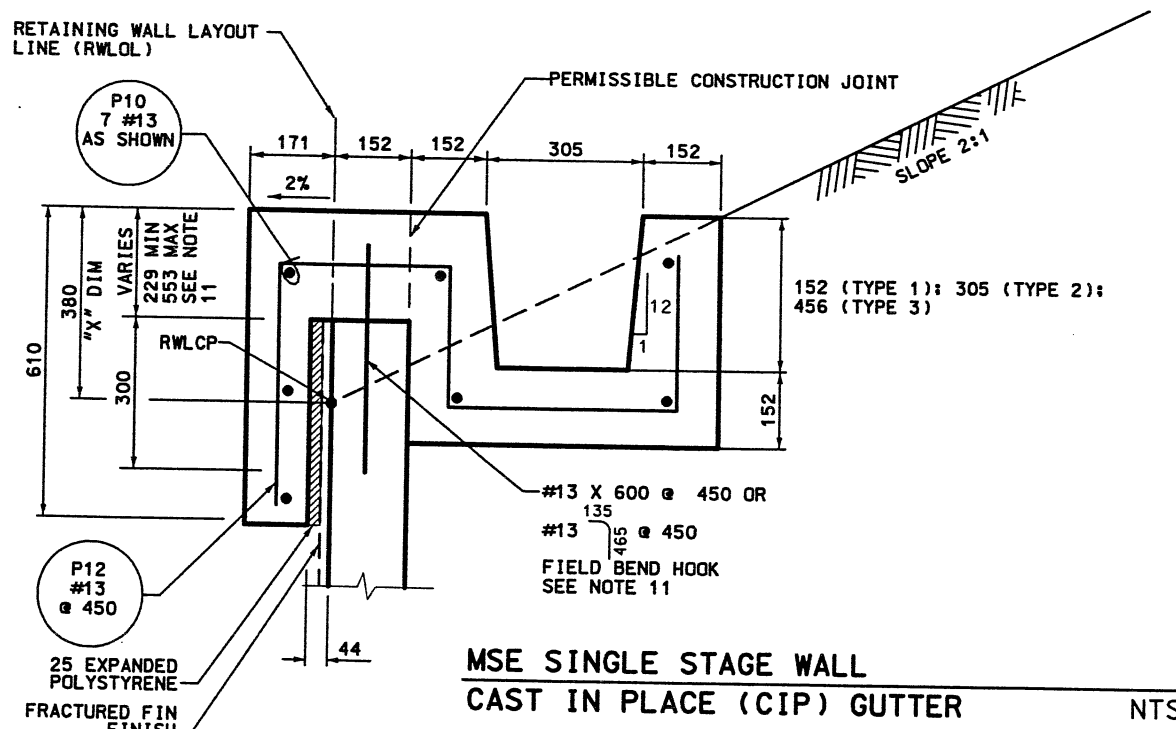
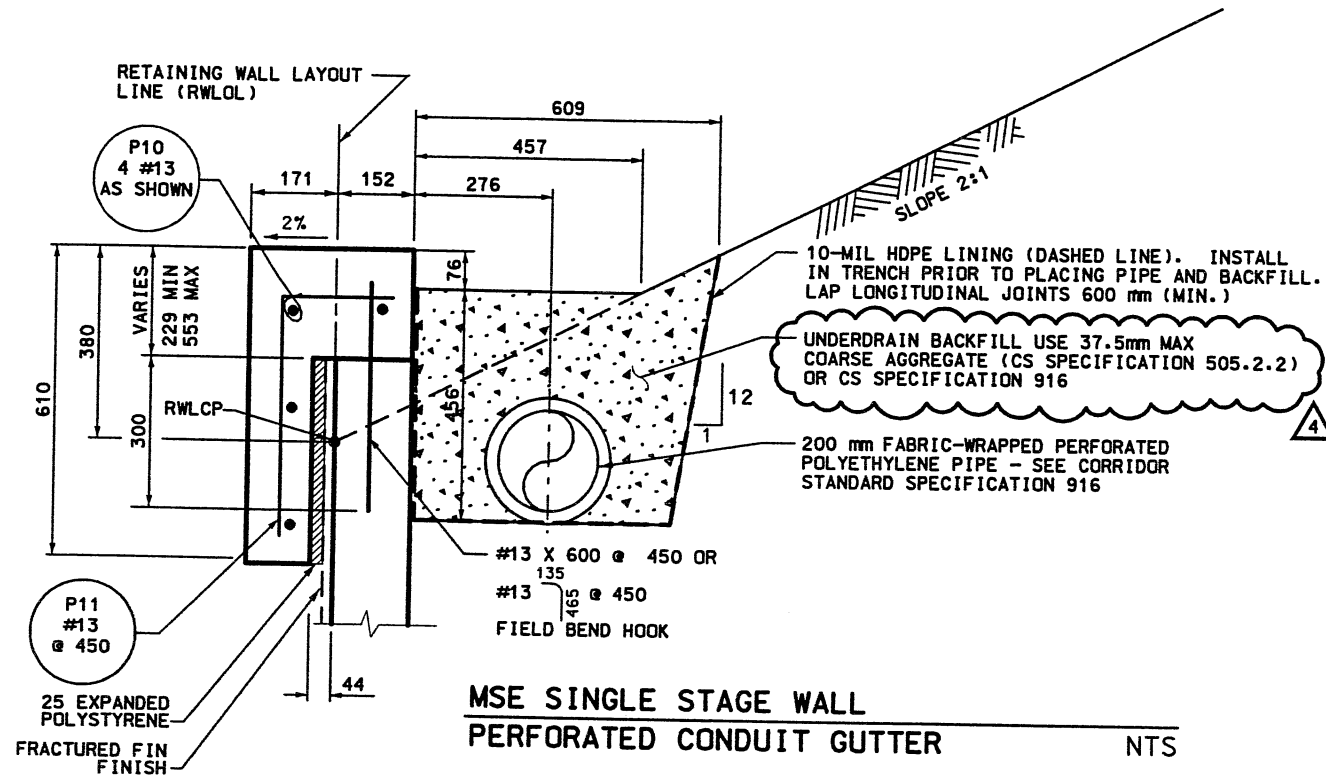


APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	DATE	DESCRIPTION
1	04/03/98		INITIAL RELEASE
2	08/04/98		TOTAL SHEET REVISION
3	10/16/98		COPYING REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION		SVRDRUP/DE LEUW	
DESIGN	CHECK	DATE	BY
DESIGN	CHECK	DATE	BY
DRAWN	CHECK	DATE	BY
QUANT.	CHECK	DATE	BY

I-15 CORRIDOR RECONSTRUCTION		BARRIER ON MOMENT SLAB	
CORRIDOR STANDARD PLAN		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY	DWG. NO. CS-29-1	APPROVAL REGIONAL	DATE
		APPROVED 08/24/98	DATE

SHT. _____ OF _____



MARK	LOCATION	SIZE NO.	NO. BARS	LENGTH	TOTAL LENGTH	SKETCH
P10	COPING	13				
P11	GUTTER	13				
P12	GUTTER	13				

WASATCH CONSTRUCTORS
MAR 25 1999
RELEASED FOR CONSTRUCTION

- GENERAL NOTES:**
- ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
 - SEE WALL SITUATION & LAYOUT AND PROFILE SHEETS FOR ALIGNMENT AND ELEVATION OF LAYOUT LINE AND CONTROL POINT RESPECTIVELY.
 - ALL CAST-IN-PLACE CONCRETE FOR COPING AND GUTTER SHALL BE STRUCTURAL CONCRETE EXCEPT WHERE NOTED OTHERWISE.
 - EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 19 mm EXCEPT WHERE NOTED OTHERWISE.
 - MINIMUM COVER TO REINFORCING STEEL SHALL BE 51 mm EXCEPT WHERE NOTED OTHERWISE.
 - SEE WALL SITUATION & LAYOUT FOR GUTTER TYPE AND LIMITS OF CONSTRUCTION.
 - ALL REINFORCING STEEL SHALL BE EPOXY COATED OR GALVANIZED, DEFORMED BILLET-STEEL BARS AND CONFORM TO AASHTO DESIGNATION M-31, GRADE 60.
 - FOR SPECIFICATIONS OF MSE WALL CONSTRUCTION, SEE CORRIDOR STANDARD SPECIFICATION 526.
 - DESIGN APPROPRIATE FOR 3040 WIDE WALL PANELS. ADDITIONAL DETAIL REQUIRED FOR 1524 WIDE PANELS (NOT SHOWN).
 - #13 DOWEL MAY BE EITHER CAST WITH WALL PANEL OR DRILL AND BONDED PRIOR TO COPING CONSTRUCTION.
 - REINFORCING STEEL DOWEL NOT REQUIRED FOR GUTTER TYPES 2 AND 3 IF "X" DIMENSION DOES NOT EXCEED 300mm AND 450mm, RESPECTIVELY.

DESIGN DATA
CAST-IN-PLACE STRUCTURAL CONCRETE: $F_c = 11.03 \text{ MPa}$
REINFORCING STEEL: $F_s = 165.5 \text{ MPa}$

- INDEX OF SHEETS**
- MSE SINGLE STAGE WALL GUTTER DETAILS
 - MSE MULTI-STAGE WALL GUTTER DETAILS



APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	3/30/98	1	3/30/98
2	7/10/98	2	7/10/98
3	10/23/98	3	10/23/98
4	3/16/99	4	3/16/99

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUIW

MARK V. BOGA
PROJECT DESIGN ENGINEER

JOHN TERRY
SECTION MANAGER

DESIGN NO. 3/98
DRAWN JRU 3/98
CHECK BMB 3/98

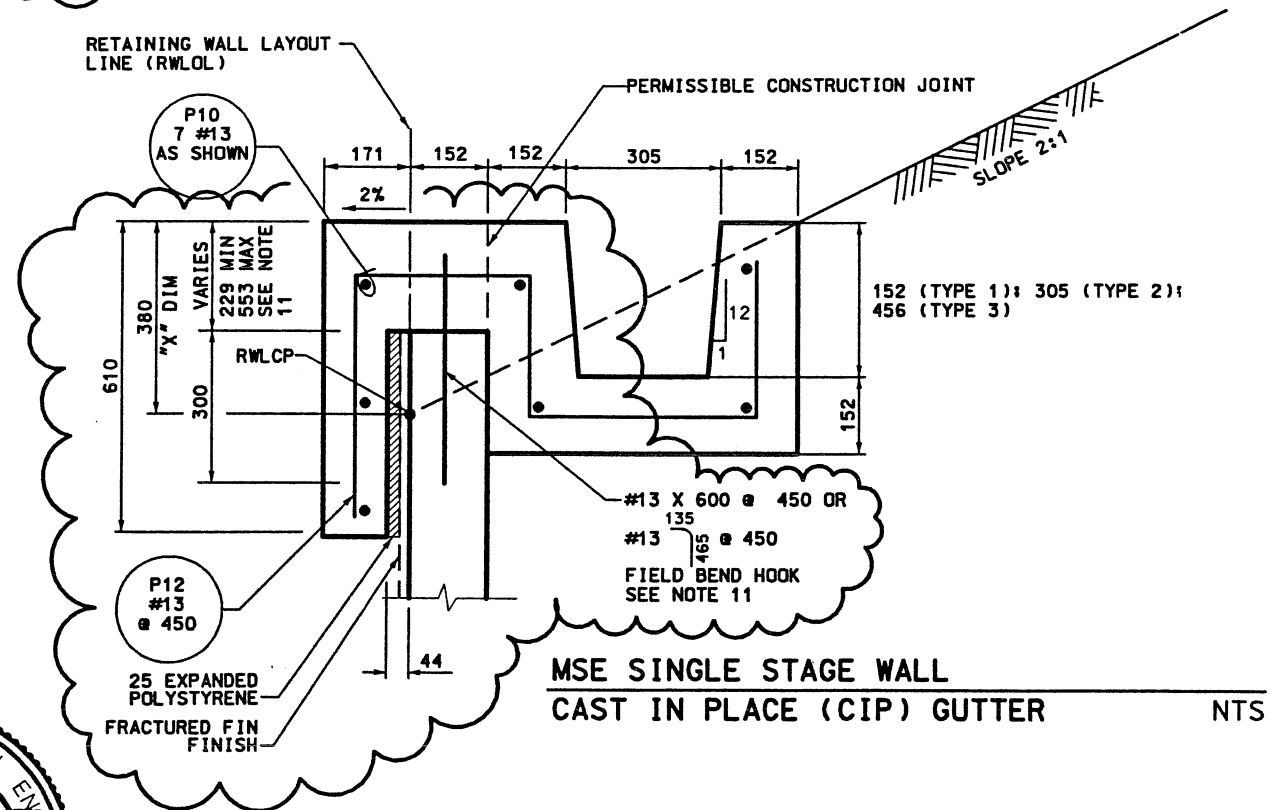
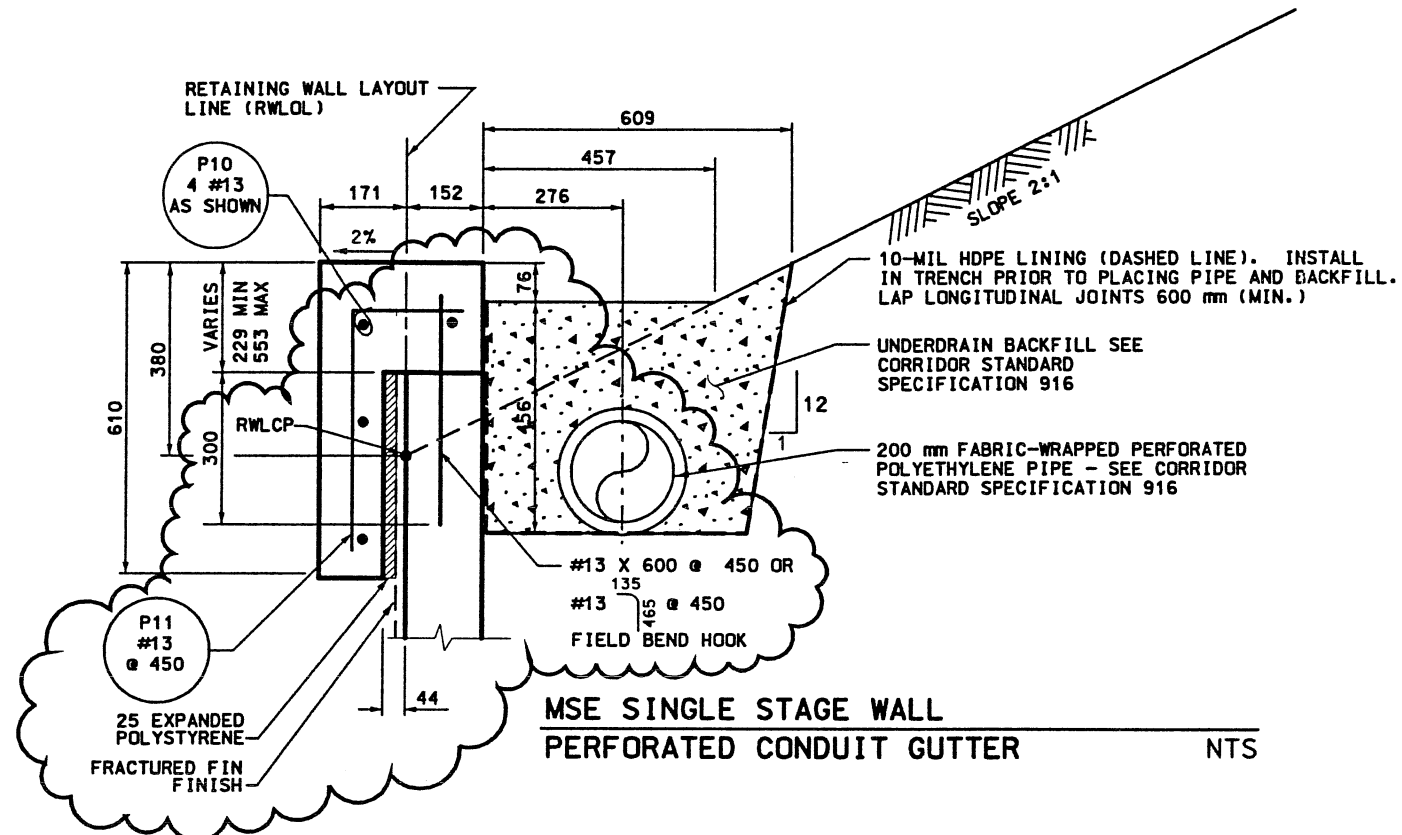
TRACKING NO. 23134

QUANT. NA

1-15 CORRIDOR RECONSTRUCTION
RETAINING WALL GUTTER DETAILS
CORRIDOR STANDARD PLAN
PROJECT NUMBER #SP-15-7(135)296

SALT LAKE COUNTY
DWG. NO. CS-30-1

SHT. _____ OF _____



MARK	LOCATION	SIZE NO.	NO. BARS	LENGTH	TOTAL LENGTH	SKETCH
P10	COPING	13				
P11	GUTTER	13				
P12	GUTTER	13				

WASATCH CONSTRUCTORS
NOV 02 1998
RELEASED FOR CONSTRUCTION

GENERAL NOTES:

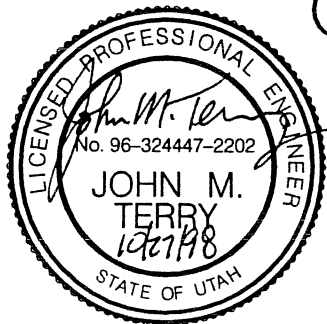
- ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
- SEE WALL SITUATION & LAYOUT AND PROFILE SHEETS FOR ALIGNMENT AND ELEVATION OF LAYOUT LINE AND CONTROL POINT RESPECTIVELY.
- ALL CAST-IN-PLACE CONCRETE FOR COPING AND GUTTER SHALL BE STRUCTURAL CONCRETE EXCEPT WHERE NOTED OTHERWISE.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 19 mm EXCEPT WHERE NOTED OTHERWISE.
- MINIMUM COVER TO REINFORCING STEEL SHALL BE 51 mm EXCEPT WHERE NOTED OTHERWISE.
- SEE WALL SITUATION & LAYOUT FOR GUTTER TYPE AND LIMITS OF CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED OR GALVANIZED, DEFORMED BILLET-STEEL BARS AND CONFORM TO AASHTO DESIGNATION M-31, GRADE 60.
- FOR SPECIFICATIONS OF MSE WALL CONSTRUCTION, SEE CORRIDOR STANDARD SPECIFICATION 526.
- DESIGN APPROPRIATE FOR 3040 WIDE WALL PANELS. ADDITIONAL DETAIL REQUIRED FOR 1524 WIDE PANELS (NOT SHOWN).
- #13 DOWEL MAY BE EITHER CAST WITH WALL PANEL OR DRILL AND BONDED PRIOR TO COPING CONSTRUCTION.
- REINFORCING STEEL DOWEL NOT REQUIRED FOR GUTTER TYPES 2 AND 3 IF "X" DIMENSION DOES NOT EXCEED 300mm AND 450mm, RESPECTIVELY.

DESIGN DATA

CAST-IN-PLACE STRUCTURAL CONCRETE: $F_c = 11.03 \text{ MPa}$
REINFORCING STEEL: $F_s = 165.5 \text{ MPa}$

INDEX OF SHEETS

- MSE SINGLE STAGE WALL GUTTER DETAILS
- MSE MULTI-STAGE WALL GUTTER DETAILS



APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW

1-15 CORRIDOR RECONSTRUCTION

RETAINING WALL GUTTER DETAILS

CORRIDOR STANDARD PLAN

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

SALT LAKE COUNTY

DWG. NO. CS-30-1

SHT. OF

NO.	DATE	DESCRIPTION
1	3/30/98	ORIGINAL RELEASE
2	7/10/98	MODIFIED EXPANDED POLYSTYRENE AND DOWEL
3	10/23/98	DOWEL REVISIONS

TRACKING NO. 23134

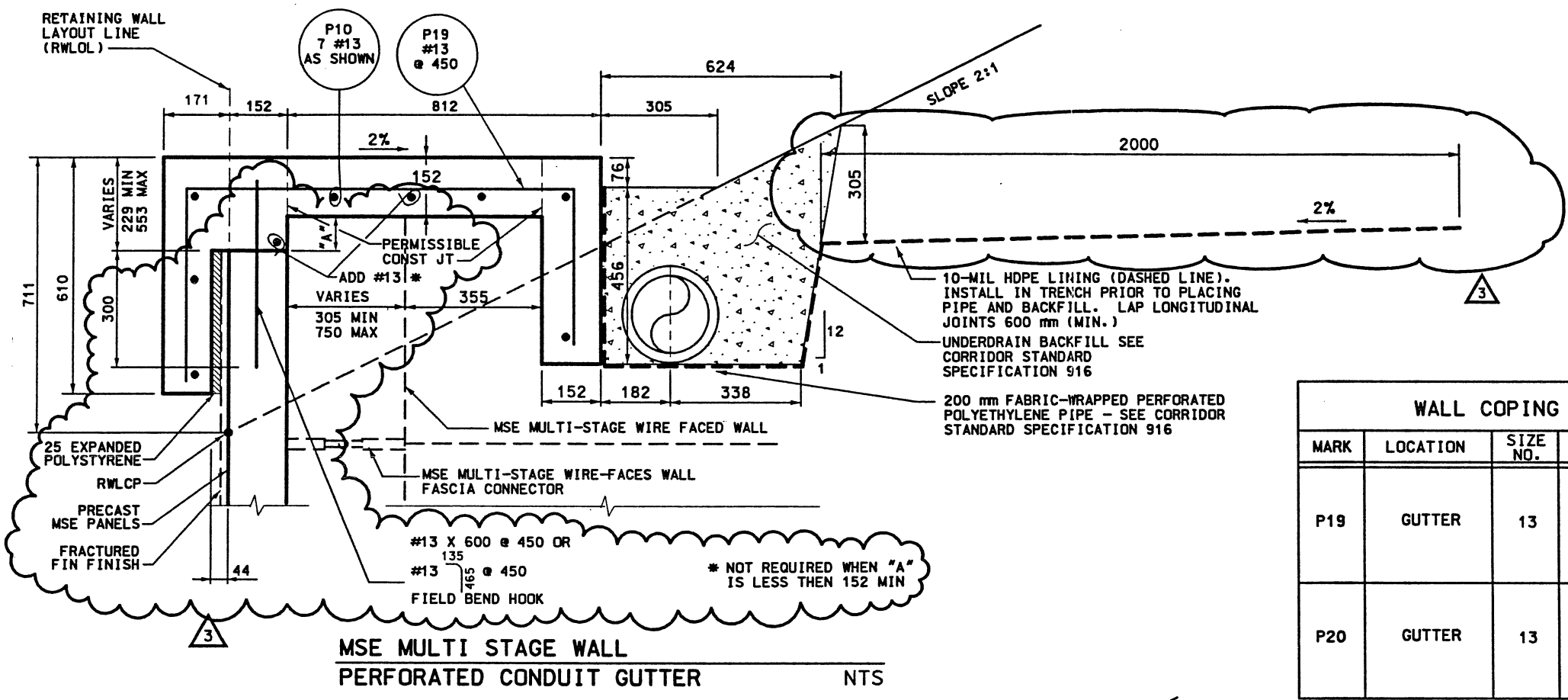
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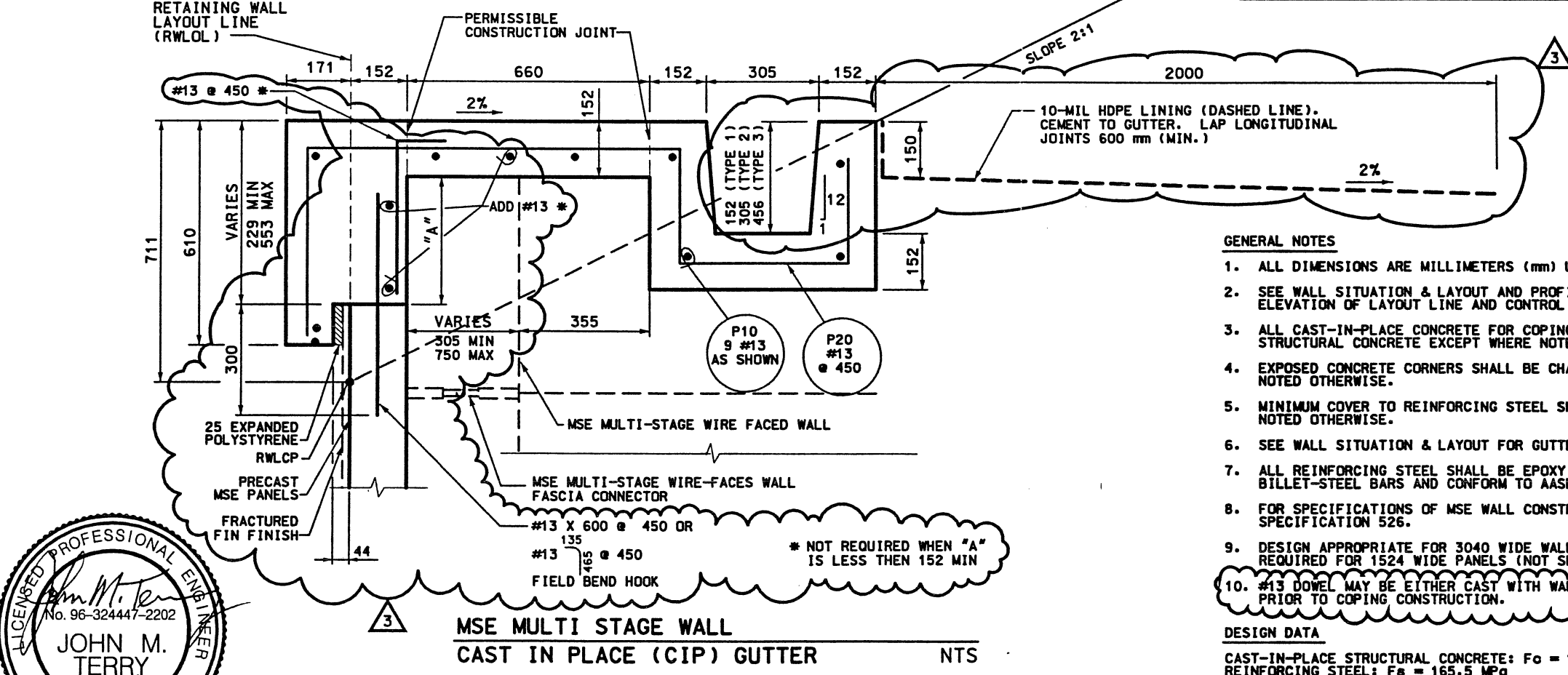
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MARK	LOCATION	SIZE NO.	NO. BARS	LENGTH	TOTAL LENGTH	SKETCH
P19	GUTTER	13				
P20	GUTTER	13				

NOV 02 1998
WASATCH CONSTRUCTORS



GENERAL NOTES

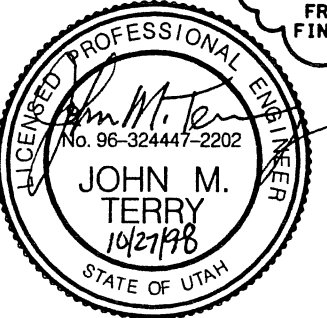
- ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
- SEE WALL SITUATION & LAYOUT AND PROFILE SHEETS FOR ALIGNMENT AND ELEVATION OF LAYOUT LINE AND CONTROL POINT RESPECTIVELY.
- ALL CAST-IN-PLACE CONCRETE FOR COPING AND GUTTER SHALL BE STRUCTURAL CONCRETE EXCEPT WHERE NOTED OTHERWISE.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 19 mm EXCEPT WHERE NOTED OTHERWISE.
- MINIMUM COVER TO REINFORCING STEEL SHALL BE 51 mm EXCEPT WHERE NOTED OTHERWISE.
- SEE WALL SITUATION & LAYOUT FOR GUTTER TYPE AND LIMITS OF CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED OR GALVANIZED, DEFORMED BILLET-STEEL BARS AND CONFORM TO AASHTO DESIGNATION M-31, GRADE 60.
- FOR SPECIFICATIONS OF MSE WALL CONSTRUCTION, SEE CORRIDOR STANDARD SPECIFICATION 526.
- DESIGN APPROPRIATE FOR 3040 WIDE WALL PANELS. ADDITIONAL DETAIL REQUIRED FOR 1524 WIDE PANELS (NOT SHOWN).
- #13 DOWEL MAY BE EITHER CAST WITH WALL PANEL OR DRILL AND BONDED PRIOR TO COPING CONSTRUCTION.

DESIGN DATA

CAST-IN-PLACE STRUCTURAL CONCRETE: $F_c = 11.03 \text{ MPa}$
 REINFORCING STEEL: $F_s = 165.5 \text{ MPa}$

INDEX OF SHEETS

- MSE SINGLE STAGE WALL GUTTER DETAILS
- MSE MULTI-STAGE WALL GUTTER DETAILS



RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION
 UTAH DEPARTMENT OF TRANSPORTATION
 SVERDRUP/DE LEUW
 I-15 CORRIDOR RECONSTRUCTION
 RETAINING WALL GUTTER DETAILS
 CORRIDOR STANDARD PLAN
 PROJECT NUMBER #SP-15-7(135)296
 SALT LAKE COUNTY
 DWG. NO. CS-30-2
 SHEET OF

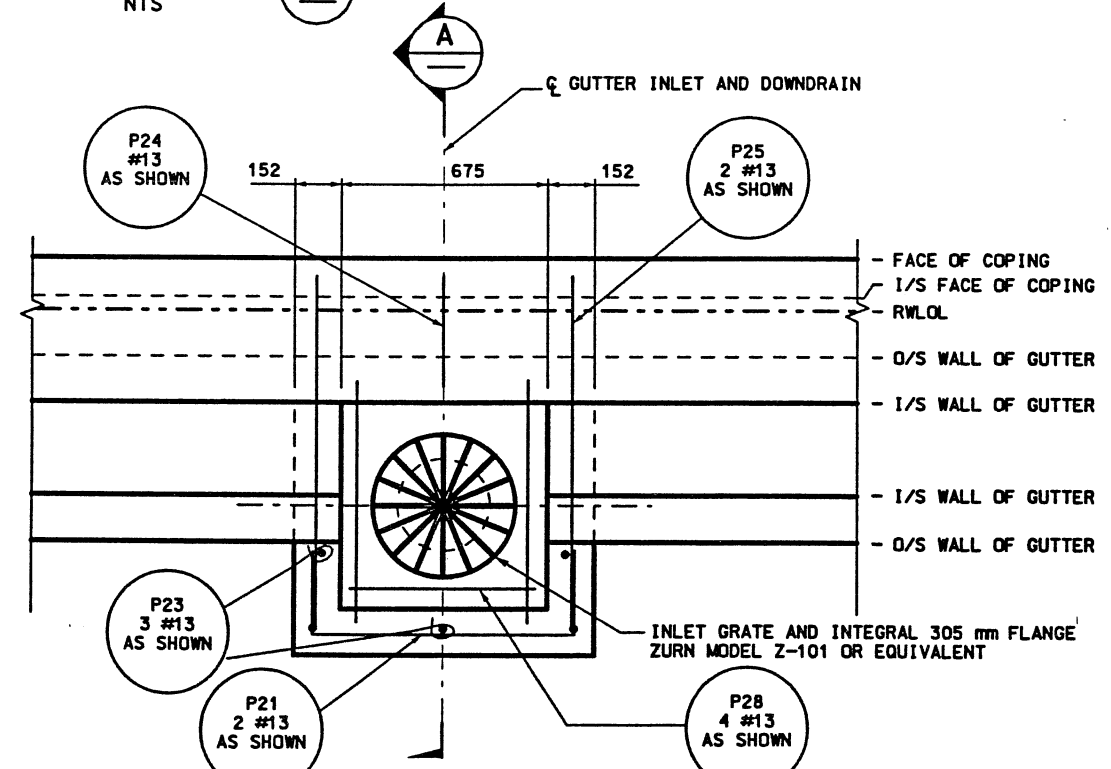
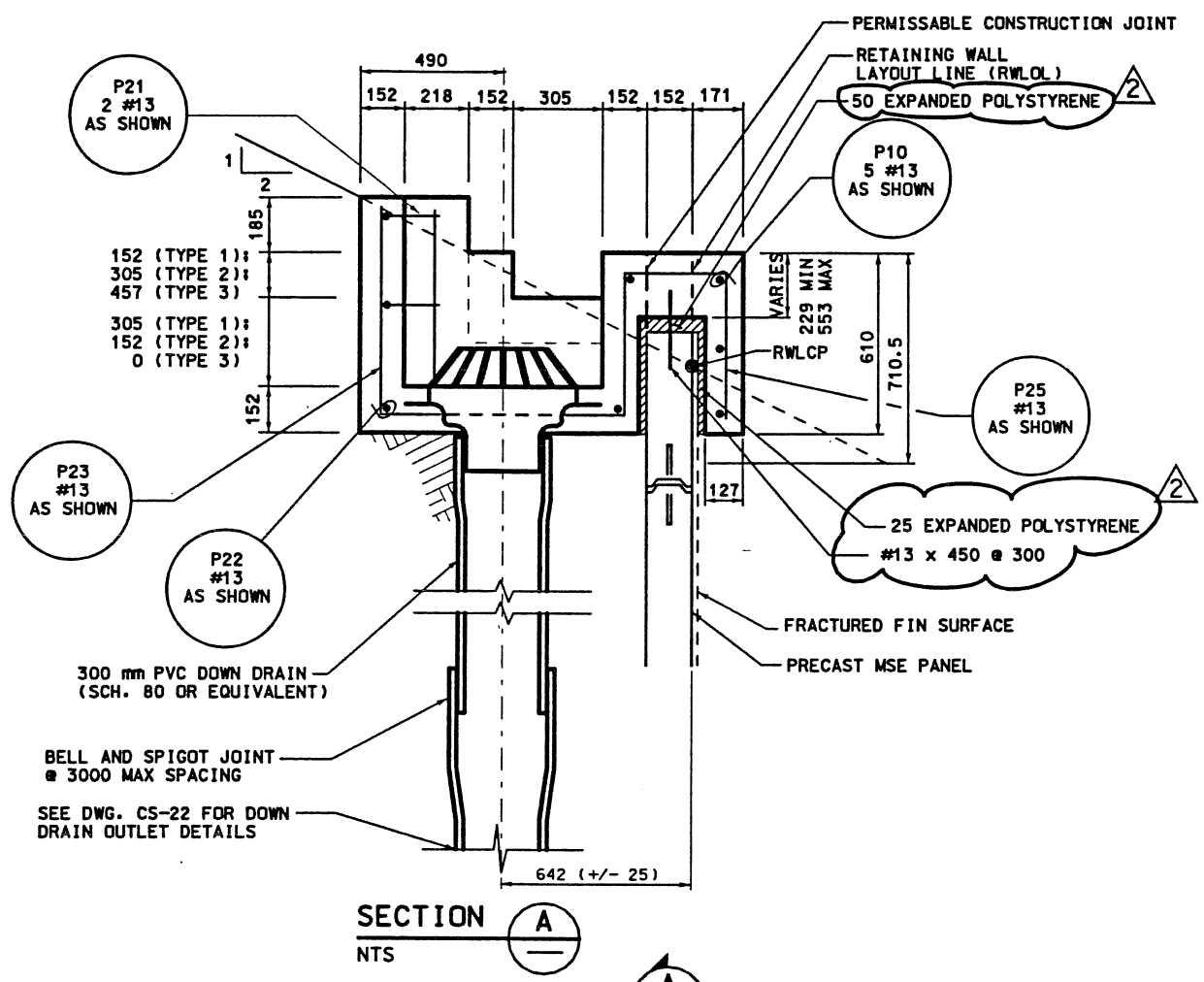
NO.	DATE	DESCRIPTION
1	3/30/98	ORIGINAL RELEASE.
2	7/10/98	MODIFIED EXPANDED POLYSTYRENE AND DOWEL.
3	10/23/98	DOWEL REVISION AND MODIFIED GAP WIDTH AND HOPE LINER.

DESIGN	3/30/98	CHECK	3/30/98
DRAWN	JUL	CHECK	3/30/98
QUANT.	N/A	CHECK	N/A

TRACKING NO. 23134

Date: 10-JUL-1998 Time: 14:27 User: namer:ceally

File name: c:\dgn\15_cadd\15_97\retcon_files\corridor_std\plan_vo_typical_03.dgn



WALL COPING REINFORCING STEEL SCHEDULE						
MARK	LOCATION	SIZE NO.	NO. BARS	LENGTH	TOTAL LENGTH	SKETCH
P21	A+ GUTTER DRAIN	13				
P22	A+ GUTTER DRAIN	13				
P23	A+ GUTTER DRAIN	13				
P24	A+ GUTTER DRAIN	13				
P25	A+ GUTTER DRAIN	13				
P10	MANY LOCATIONS	13				

GENERAL NOTES

- ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
- SEE WALL SITUATION & LAYOUT AND PROFILE SHEETS FOR ALIGNMENT AND ELEVATION OF LAYOUT LINE AND CONTROL POINT RESPECTIVELY.
- ALL CAST-IN-PLACE CONCRETE FOR COPING AND GUTTER SHALL BE STRUCTURAL CONCRETE EXCEPT WHERE NOTED OTHERWISE.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 19 mm EXCEPT WHERE NOTED OTHERWISE.
- MINIMUM COVER TO REINFORCING STEEL SHALL BE 51 mm EXCEPT WHERE NOTED OTHERWISE.
- SEE WALL SITUATION & LAYOUT FOR GUTTER TYPE AND LIMITS OF CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED OR GALVANIZED, DEFORMED BILLET-STEEL BARS AND CONFORM TO AASHTO DESIGNATION M-31, GRADE 60.
- FOR SPECIFICATIONS OF MSE WALL CONSTRUCTION, SEE CORRIDOR STANDARD SPECIFICATION 526.
- DESIGN APPROPRIATE FOR 3040 WIDE WALL PANELS. ADDITIONAL DETAIL REQUIRED FOR 1524 WIDE PANELS (NOT SHOWN).
- #13 DOWEL MAY BE EITHER CAST WITH WALL PANEL OR DRILLED AND GROUTED OR EPOXY FILLED PRIOR TO COPING CONSTRUCTION.

DESIGN DATA

CAST-IN-PLACE STRUCTURAL CONCRETE: $f_c = 11.03 \text{ MPa}$
REINFORCING STEEL: $f_s = 165.5 \text{ MPa}$

INDEX OF SHEETS

- MSE SINGLE STAGE WALL GUTTER DETAILS
- MSE MULTI-STAGE WALL GUTTER DETAILS



WASATCH CONSTRUCTORS

JUL 24 1998

RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUIW

DESIGN: MVB 3/28
CHECK: DBB 3/28
DATE: 3/30/98

MARK V. GOGALA
PROJECT DESIGN ENGINEER

DRAMA: J-L-J 3/28
CHECK: DBB 3/28
DATE: 3/30/98

JOHN TERRY
SECTION MANAGER

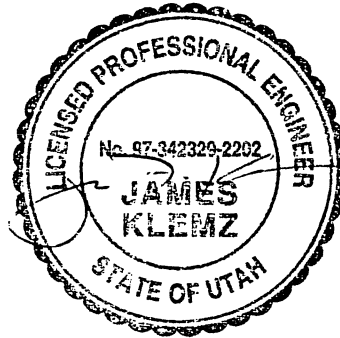
TRACKING NO.: 23134

PROJECT NUMBER: #SP-15-7(135)296

I-15 CORRIDOR RECONSTRUCTION
RETAINING WALL GUTTER INLET
CORRIDOR STANDARD PLAN

SALT LAKE COUNTY
DWG. NO. CS-31-1

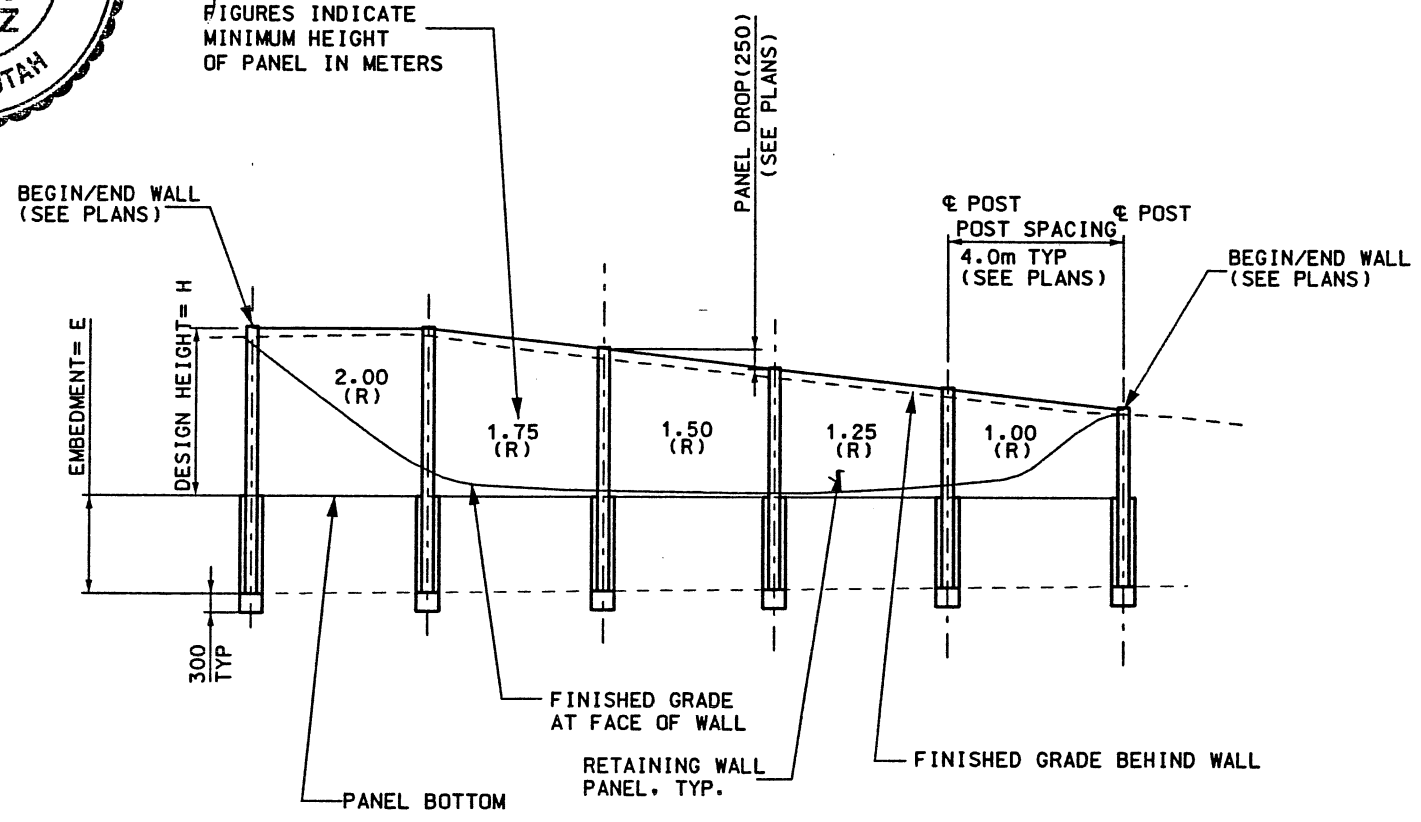
SHT. OF



4-15-98

LEGEND:
 (R) = RETAINING WALL PANEL
 (DETAIL A, UDOT STD 546-1)

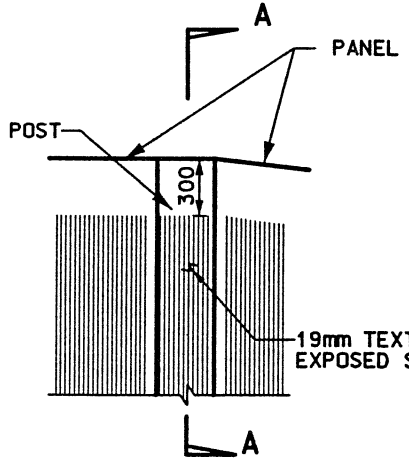
FIGURES INDICATE
 MINIMUM HEIGHT
 OF PANEL IN METERS



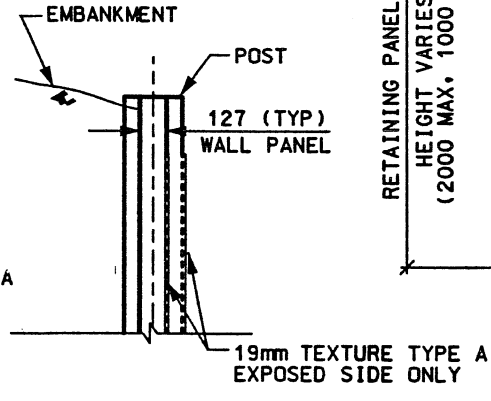
TYPICAL ELEVATION OF POST AND PANEL RETAINING WALL
 NTS

NOTES:

1. FOR POST SECTIONS, POST AND PANEL REINFORCING AND DETAILS NOT SHOWN, SEE UDOT STANDARD DRAWING 546-1 AND 546-2.
2. FOR POST EMBEDMENT AND VERTICAL BAR SIZE SEE UDOT STANDARD DRAWING 546-2.
3. FOR POST SPACING, SEE S&L PLANS.
4. FOR AESTHETIC DETAILS, SEE CS-6 AND SPECIFICATION 519.

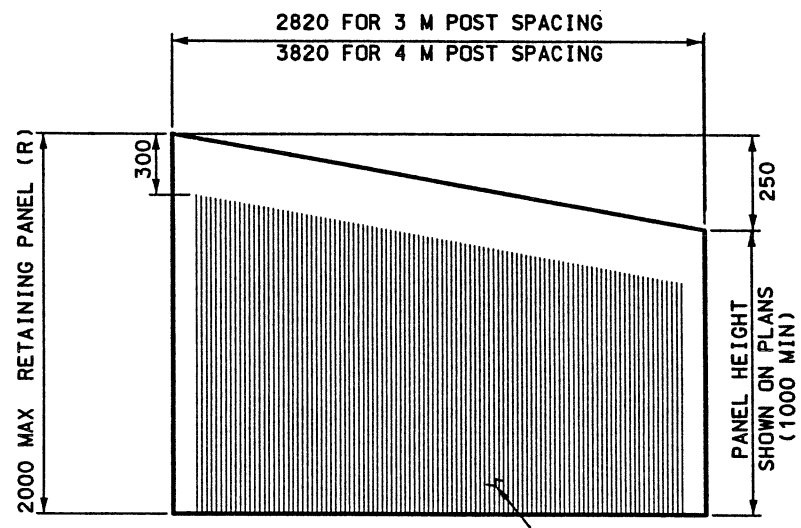


ELEVATION
 NTS

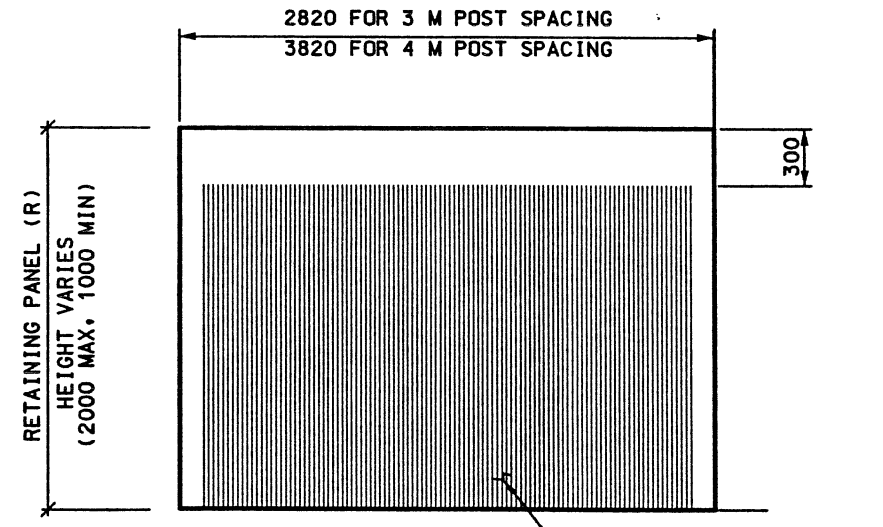


SECTION A-A
 NTS

STANDARD POST SURFACE TREATMENT



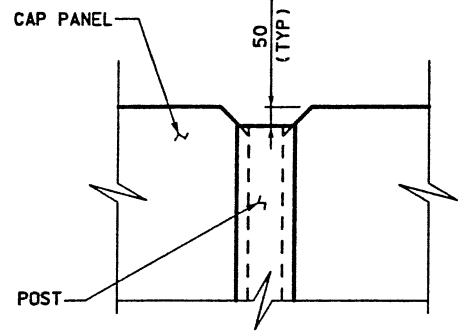
DROP RETAINING PANEL
 NTS



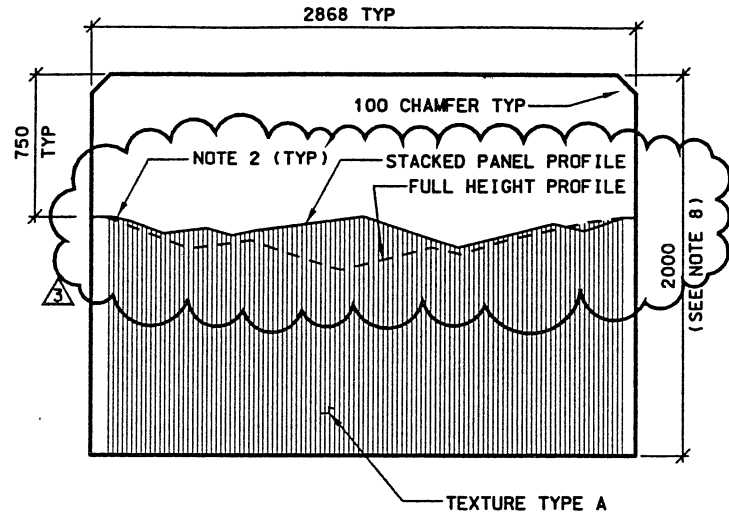
STANDARD RETAINING PANEL
 NTS

WASATCH CONSTRUCTORS
APR 21 1998
RELEASED FOR CONSTRUCTION

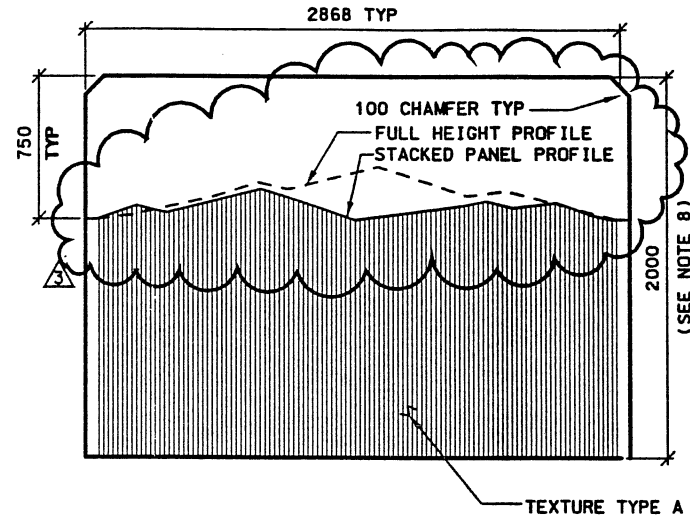
APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	04/15/98	1	04/15/98
			ORIGINAL RELEASE
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		CHECK PGM 03/98	
APPROVAL	DATE	DESIGN SP	DATE
RECORD	04/15/98	STANLEY POLASKI	03/98
		PROJECT DESIGN ENGINEER	
		DRAWN SDP	03/98
		QUANT.	
		APPROVED 04/15/98	DATE
		JAMES KLEMZ	DATE
		SECTION MANAGER	
I-15 CORRIDOR RECONSTRUCTION		CORRIDOR STANDARD PLAN	
2.0 M HIGH P & P RETAINING WALL		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. CS-36			
SHT. OF			



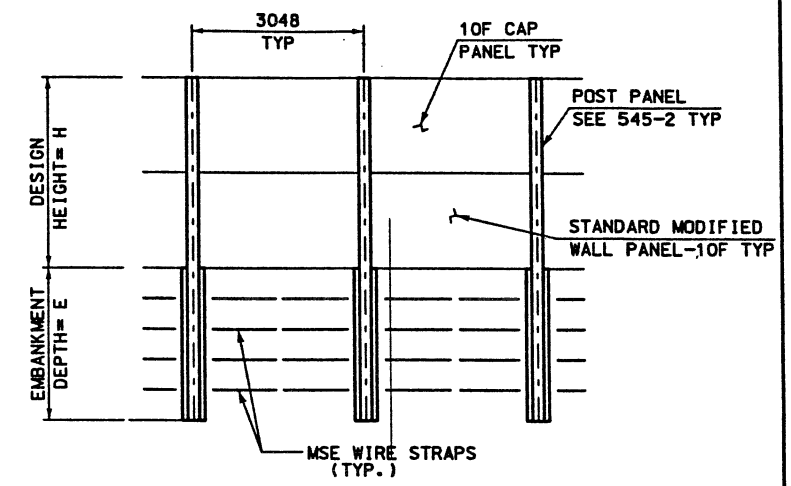
1 ASSEMBLY DETAIL NTS



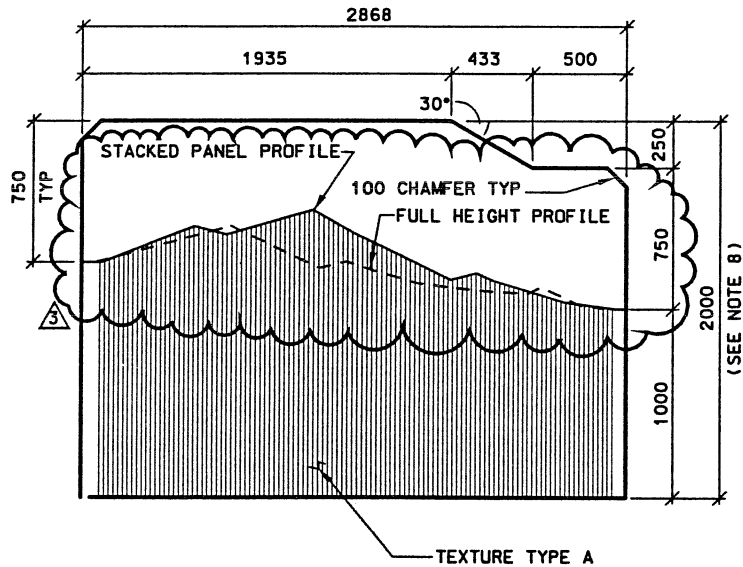
2 10F CAP PANEL FRNT (PROFILE 1) NTS



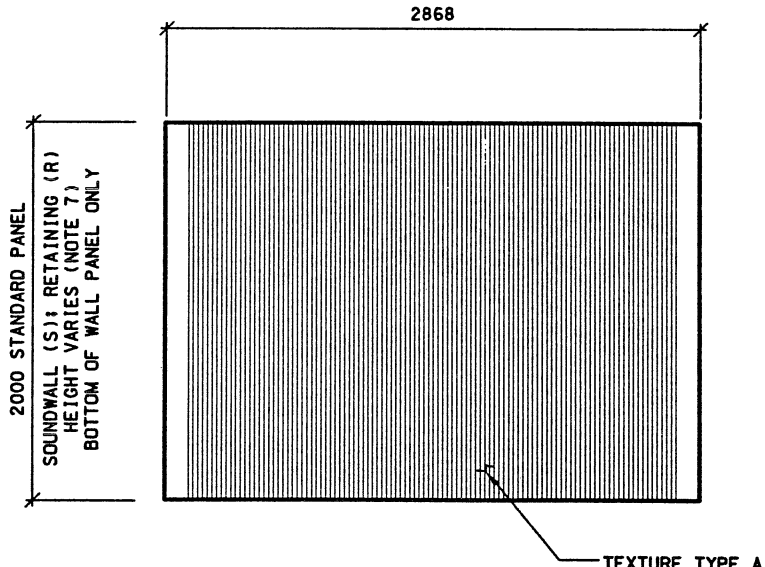
3 10F CAP PANEL BACK (PROFILE 2) NTS



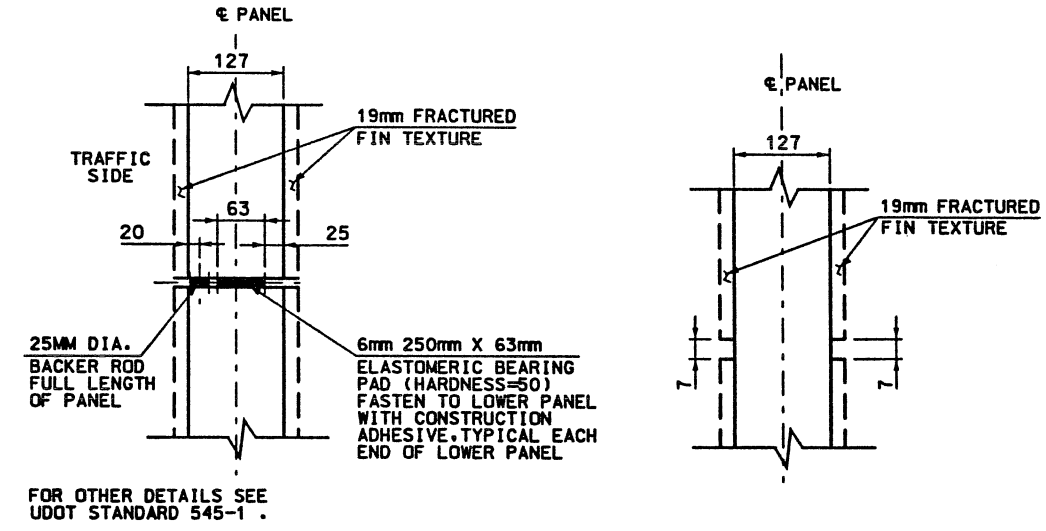
6 ELEVATION OF PRECAST SOUNDWALL AT MSE WALL LOCATION NTS



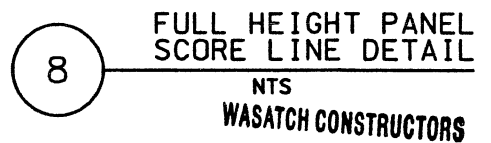
4 10F STEP DOWN CAP PANEL (SAME BOTH SIDES) NTS



5 STANDARD MODIFIED WALL PANEL-10F NTS



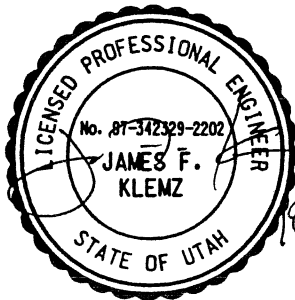
7 BEARING DETAIL NTS



8 FULL HEIGHT PANEL SCORE LINE DETAIL NTS

NOTES:

1. THE STANDARD SOUNDWALL PANEL SHALL HAVE FRACTURED FIN TEXTURE "TYPE A" APPLIED TO BOTH SIDES OF THE PANEL FOR THE FULL HEIGHT OF THE PANEL. THE TEXTURE CAN BE FORM LINED OR STAMPED ON EITHER SIDE. HOWEVER, EACH WALL SHALL HAVE A CONSISTENTLY APPLIED TREATMENT FOR EACH WALL SIDE.
2. MOUNTAIN PROFILE PATTERNS ON THE PLANS ARE FOR INFORMATION ONLY. FULL SCALE PROFILE PLOTS SHALL BE ISSUED FOR A PATTERN FOR USE IN PREPARING FORMLINERS.
3. ALL POSTS SHALL HAVE THE FORMLINER TREATMENT TO THE HIGHWAY SIDE OF THE WALL. POSTS SHALL BE PLAIN ON THE NEIGHBORHOOD SIDE.
4. PROFILE 1 AND 2 (FRONT AND BACK SIDES) SHALL BE PLACED RANDOMLY BY DESIGN ENGINEER. DESIGNER SHOULD STRIVE TO LIMIT THE PLACEMENT OF PANELS TO A MAXIMUM OF 5 OF ONE TYPE OF PROFILE IN A ROW. ALTERNATING PANELS FOR MORE THAN 6 PANELS CONSECUTIVELY IS NOT ACCEPTABLE.
5. ALL PANEL, ASSEMBLY AND BEARING DETAILS SHOWN ON THIS SHEET SUPERSEDE SIMILAR DETAILS SHOWN ON UDOT STD DWGS 545-01, 545-02, 546-01, 546-02. ALL OTHER DETAILS SHOWN ON THE UDOT STANDARD DRAWINGS ARE APPLICABLE.
6. POSTS AND PANELS TO BE FINISHED WITH COATING OF CORRIDOR THEME COLOR.
7. PANELS WILL BE ERECTED IN 2m INCREMENTS FROM TOP OF WALL TOWARD BOTTOM OF WALL, WITH ONLY BOTTOM PANEL TO BE OF VARIABLE HEIGHT (1.0m-2.75m). SEE CS-38.
8. IT IS THE CONTRACTORS OPTION TO CONSTRUCT AND INSTALL FULL HEIGHT PANELS. FULL HEIGHT PANELS SHALL HAVE HORIZONTAL SCORE LINES ON BOTH SIDES OF PANEL THAT DIVIDE THE PANEL INTO SURFACES 2M HIGH FROM TOP OF PANEL TO BOTTOM OF PANEL, WITH ONLY THE BOTTOM SURFACE TO BE OF VARIABLE HEIGHT (1.0m-2.75m). SEE DETAIL 8 THIS PAGE. HORIZONTAL SCORE LINES ARE TO MATCH LOCATION OF HORIZONTAL SEAMS OF STACKED PANEL SYSTEM SHOWN ON CS-38. THE CONTRACTOR SHALL SUBMIT FABRICATION, TRANSPORT AND ERECTION HANDLING PLAN WITH SUPPORTING CALCULATIONS FOR APPROVAL BY THE ENGINEER.
9. FOR DESIGN HEIGHTS LESS THAN 3.0 M, CAP PANEL MAY VARY BETWEEN 2000mm AND 2750mm IN 250mm INCREMENTS TO ELIMINATE BOTTOM PANEL HEIGHTS LESS THAN 1000mm.
10. STANDARD PANELS AND FULL HEIGHT PANELS SHALL NOT BE INTERMIXED WITHIN A LENGTH OF WALL. CONTIGUOUS SECTIONS OF WALL SHALL BE ONE TYPE OF PANEL ONLY.



OCT 13 1998

RELEASED FOR CONSTRUCTION

WASATCH CONSTRUCTORS

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
A	1/23/98	A	1/23/98
A	07/24/98	A	07/24/98
A	09/29/98	A	09/29/98
ORIGINAL RELEASE		REVISED NOTES, ADD FULL HEIGHT PANEL	
ADD FULL HEIGHT PANEL PROFILE		ADD FULL HEIGHT PANEL PROFILE	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW			
APPROVAL DATE	DESIGNER	CHECK	DATE
01/22/98	STANLEY POLJAKIS	SP	1/98
DATE	PROJECT DESIGN ENGINEER	CHECK	DATE
01/22/98	JOSEPH JOHNSON	JJ	1/98
APPROVED DATE	SECTION MANAGER	CHECK	DATE
01/22/98			
1-15 CORRIDOR RECONSTRUCTION			
MODIFIED 10F P&P RETAINING WALLS			
CORRIDOR STANDARD PLAN			
PROJECT NUMBER #SP-15-7(135)296			
SALT LAKE COUNTY			
DWG. NO. CS-37			
SHT. _____ OF _____			

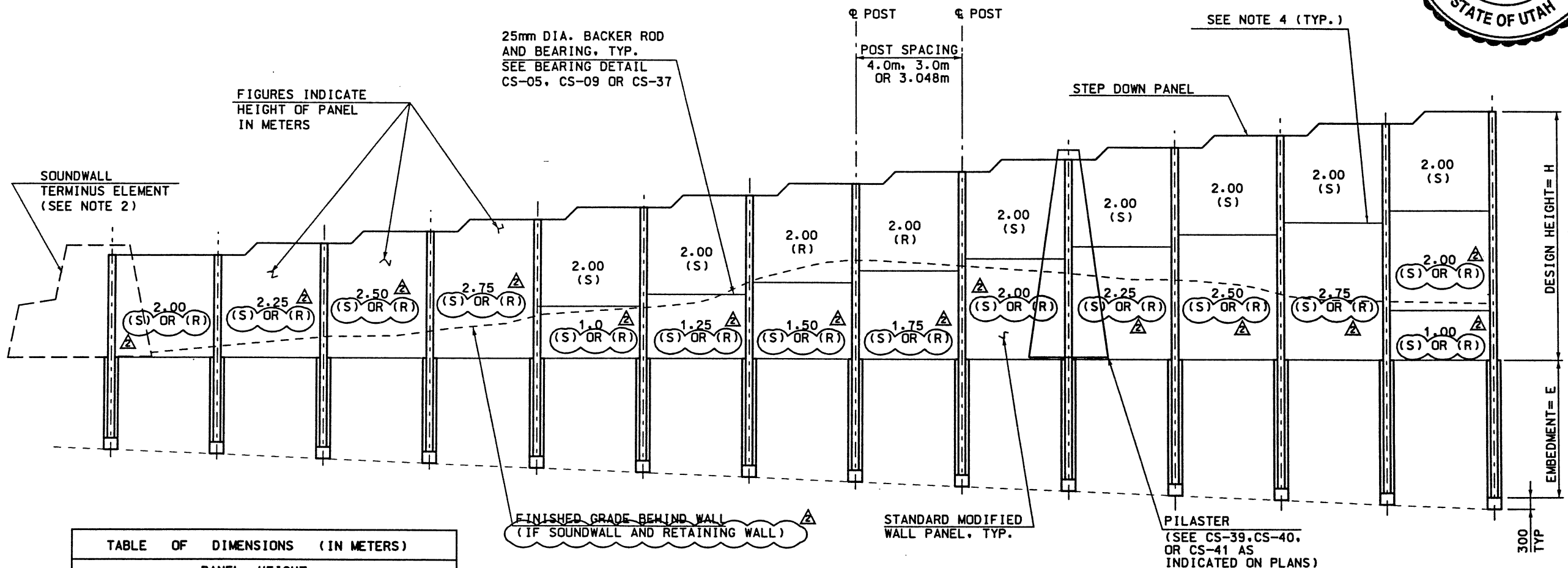
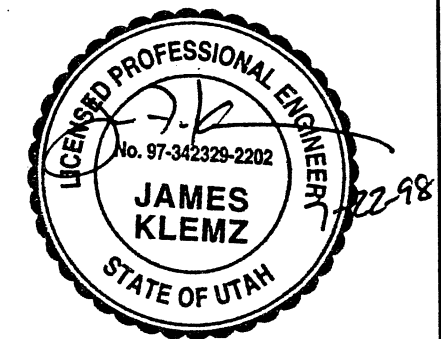


TABLE OF DIMENSIONS (IN METERS)

DESIGN HEIGHT = H	PANEL HEIGHT		
	TOP PANEL	CENTER PANEL	BOTTOM PANEL
2.00	2.00	—	—
2.25	2.25	—	—
2.50	2.50	—	—
2.75	2.75	—	—
3.00	2.00	—	1.00
3.25	2.00	—	1.25
3.50	2.00	—	1.50
3.75	2.00	—	1.75
4.00	2.00	—	2.00
4.25	2.00	—	2.25
4.50	2.00	—	2.50
4.75	2.00	—	2.75
5.00	2.00	2.00	1.00

TYPICAL ELEVATION OF POST AND PANEL SOUNDWALL OR POST AND PANEL SOUNDWALL / RETAINING WALL

LEGEND:
 (S) = SOUNDWALL PANEL (UDOT STD 545-1)
 (R) = RETAINING WALL PANEL (DETAIL A, UDOT STD 546-1)

- NOTES:
- FOR POST SECTIONS, POST SPACING AND DETAILS NOT SHOWN. SEE UDOT STANDARD DRAWING 545-1, 545-2, 546-1 AND 546-2. THE PANEL ELEVATION ARRANGEMENTS SHOWN ON THIS DRAWING SUPERSEDE SIMILAR ELEVATIONS ON THE UDOT STANDARD DRAWINGS.
 - FOR SOUNDWALL TERMINUS ELEMENT DETAILS, SEE CS-07 OR CS-08.
 - FOR POST EMBEDMENT AND VERTICAL BAR SIZE SEE UDOT STANDARD DRAWING 545-2 and 546-2.
 - PANELS TO BE SET TO ALIGN VERTICAL GROOVES OF FRACTURED FIN TEXTURE BETWEEN PANELS PRIOR TO SHIMMING.
 - IT IS THE CONTRACTORS OPTION TO CONSTRUCT AND INSTALL FULL HEIGHT PANELS. SEE CS-5, 9 AND 37.

WASATCH CONSTRUCTORS
 JUL 29 1998
 RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW

STANLEY POLASIK
 PROJECT DESIGN ENGINEER

JOSEPH JOHNSON
 SECTION MANAGER

I-15 CORRIDOR RECONSTRUCTION

P & P SOUNDWALL/RET. WALL DETAIL

CORRIDOR STANDARD PLAN

SALT LAKE COUNTY

DWG. NO. CS-38

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

DATE 01/23/98 ORIGINAL RELEASE

DATE 07/24/98 REVISED NOTES, ADD FULL HEIGHT PANEL

NO. A

DATE

DESCRIPTION

APPROVAL RECORD

DESIGN SP

CHECK PW

DATE

DESIGN

CHECK SP

DATE

DRAWN VLR

CHECK SP

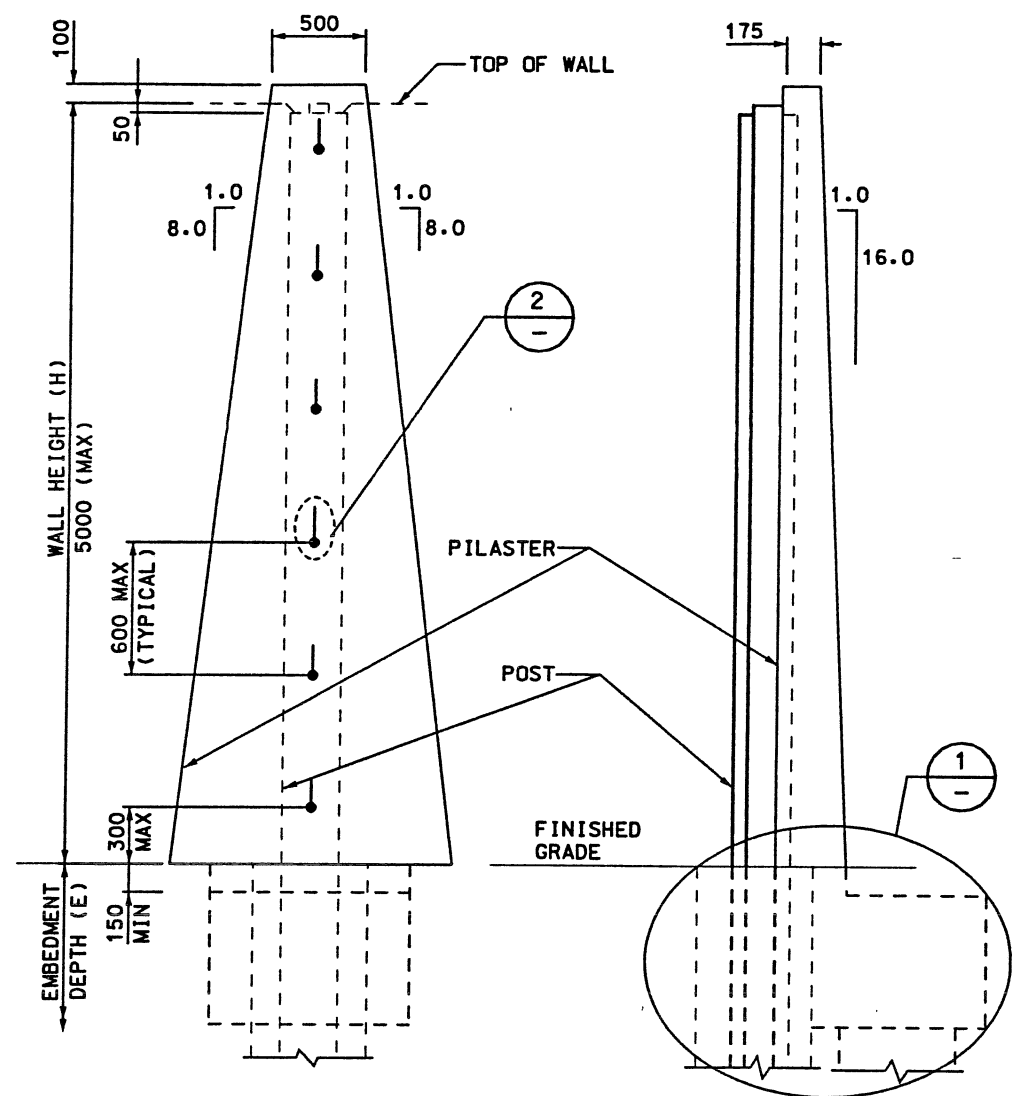
DATE

QUANT.

CHECK

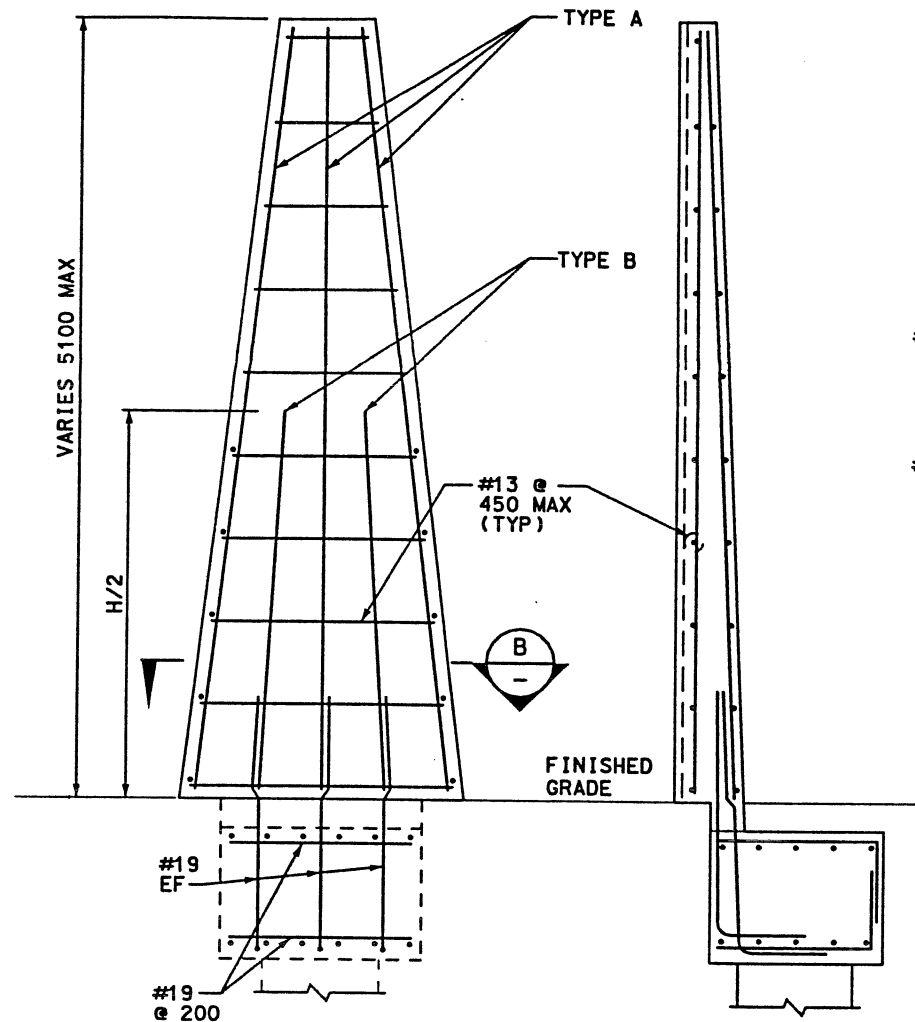
SHT. OF

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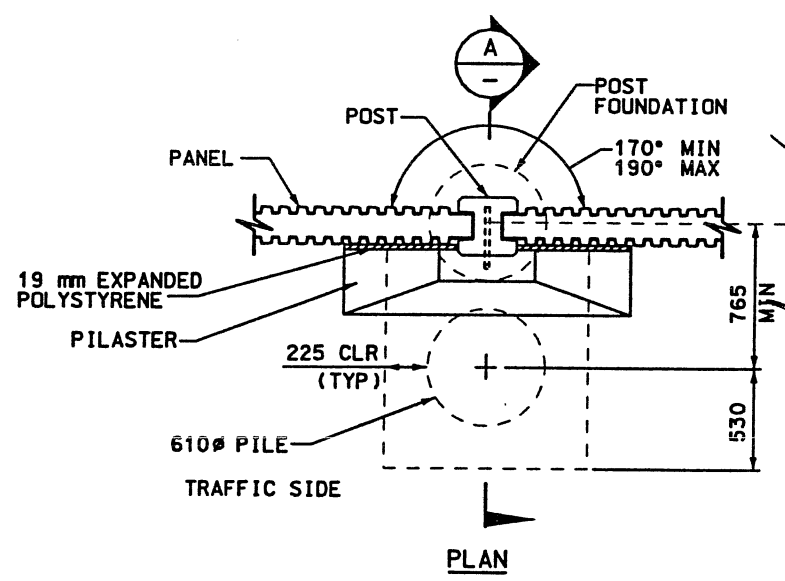
ELEVATION

SECTION A



ELEVATION

SECTION A



PLAN

RETAINING/SOUNDWALL PILASTER FOR TYPE I POST

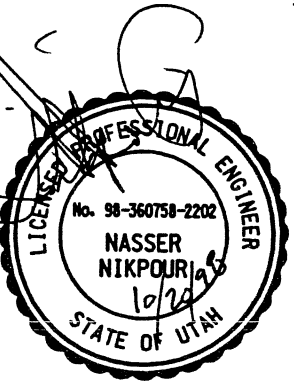
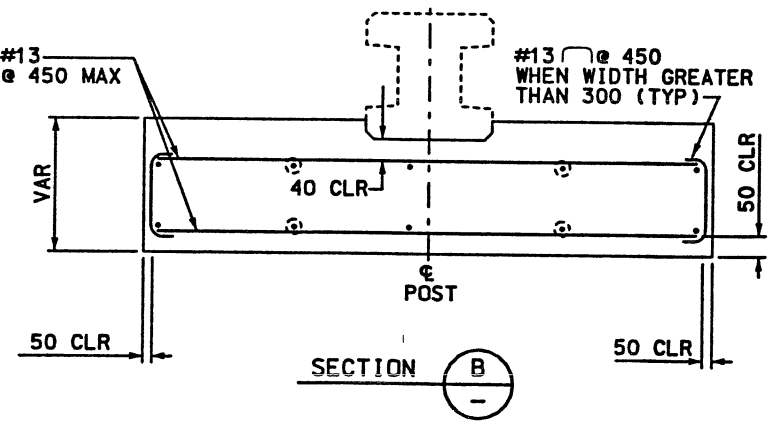


TABLE FOR EMBEDMENT OF PILE

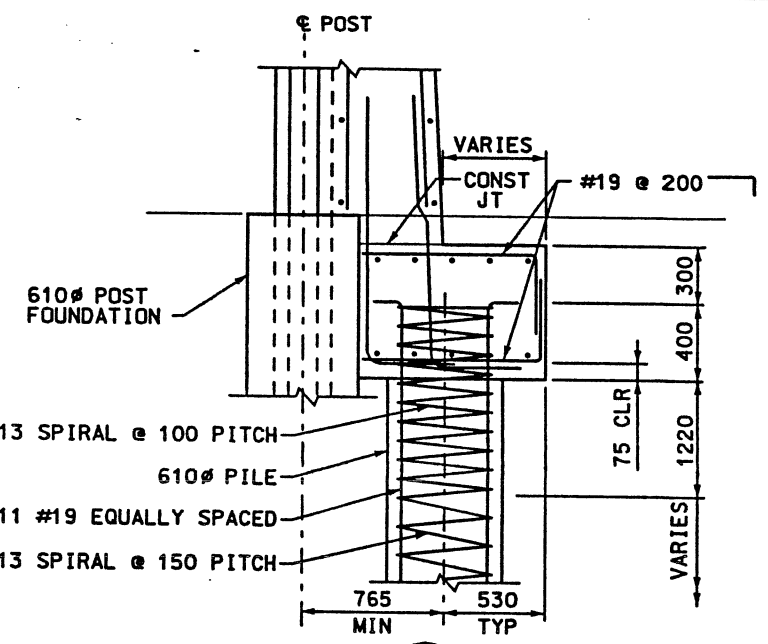
TABLE 1	
DESIGN "H" IN METERS (MAX)	"E" IN METERS (E=0.90 X H)
2.75	3.00
3.50	3.25
4.25	4.00
5.00	4.50



SECTION B

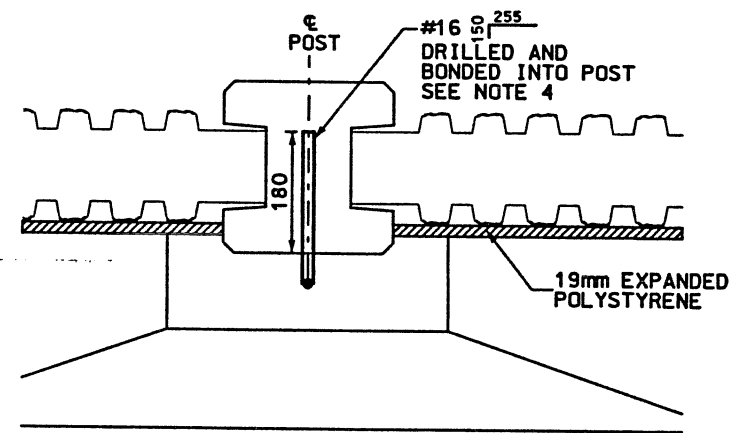
TYPICAL PILASTER REINFORCEMENT NTS

- LEGEND:**
- TYPE A: #13 FULL HEIGHT REINFORCEMENT @ 300 MAX
 - ⊙ TYPE B: #13 HALF HEIGHT REINFORCEMENT @ 300 MAX



DETAIL 1

PILE LOCATION FOR 2M TO 5M PILASTER



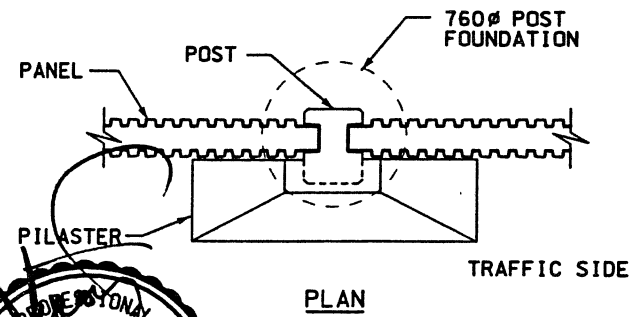
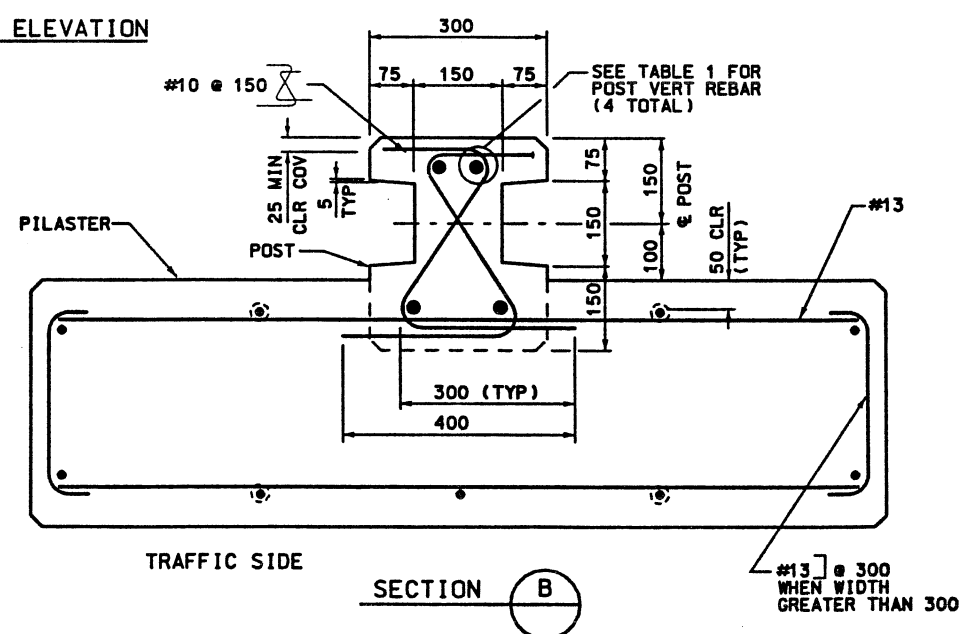
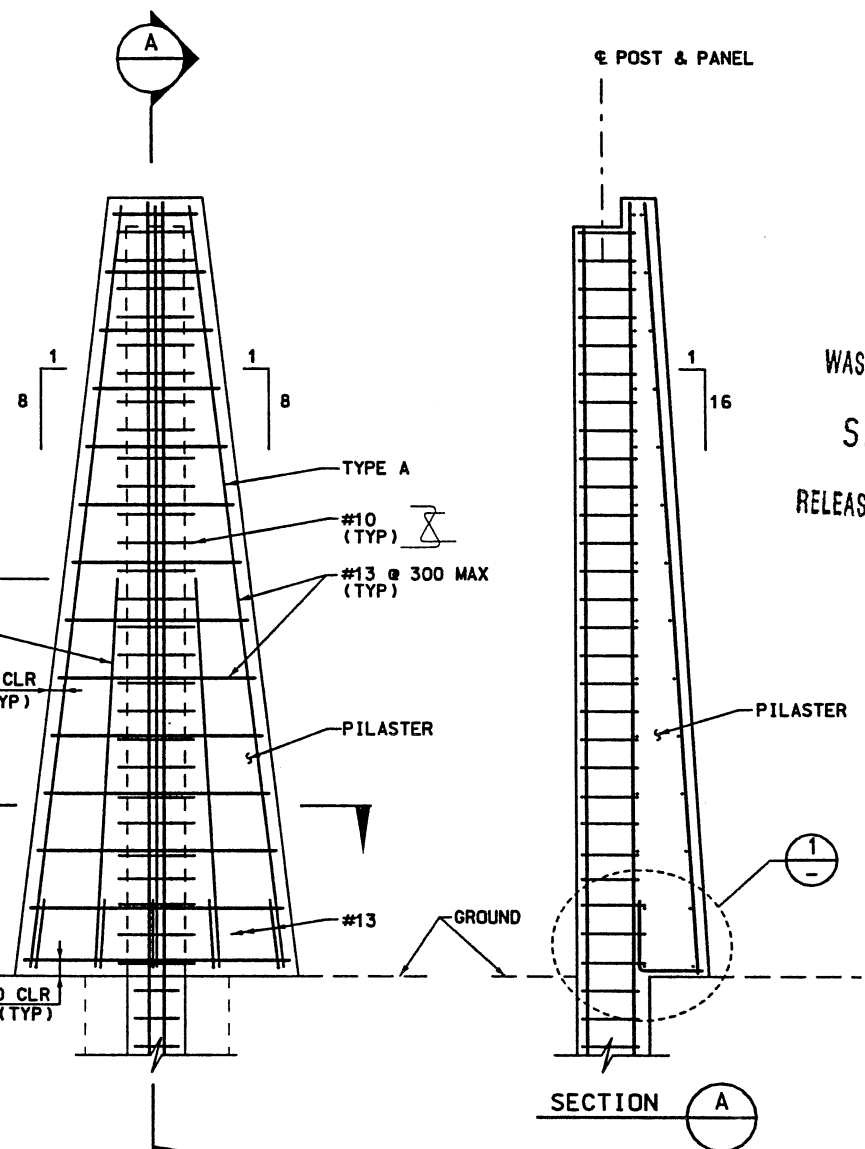
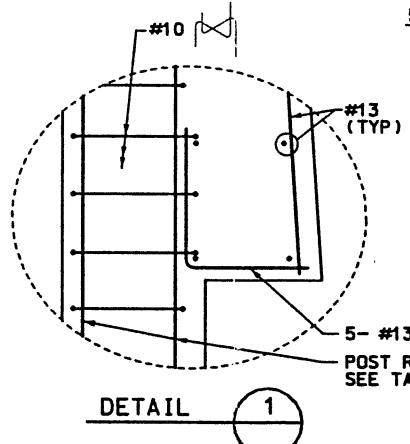
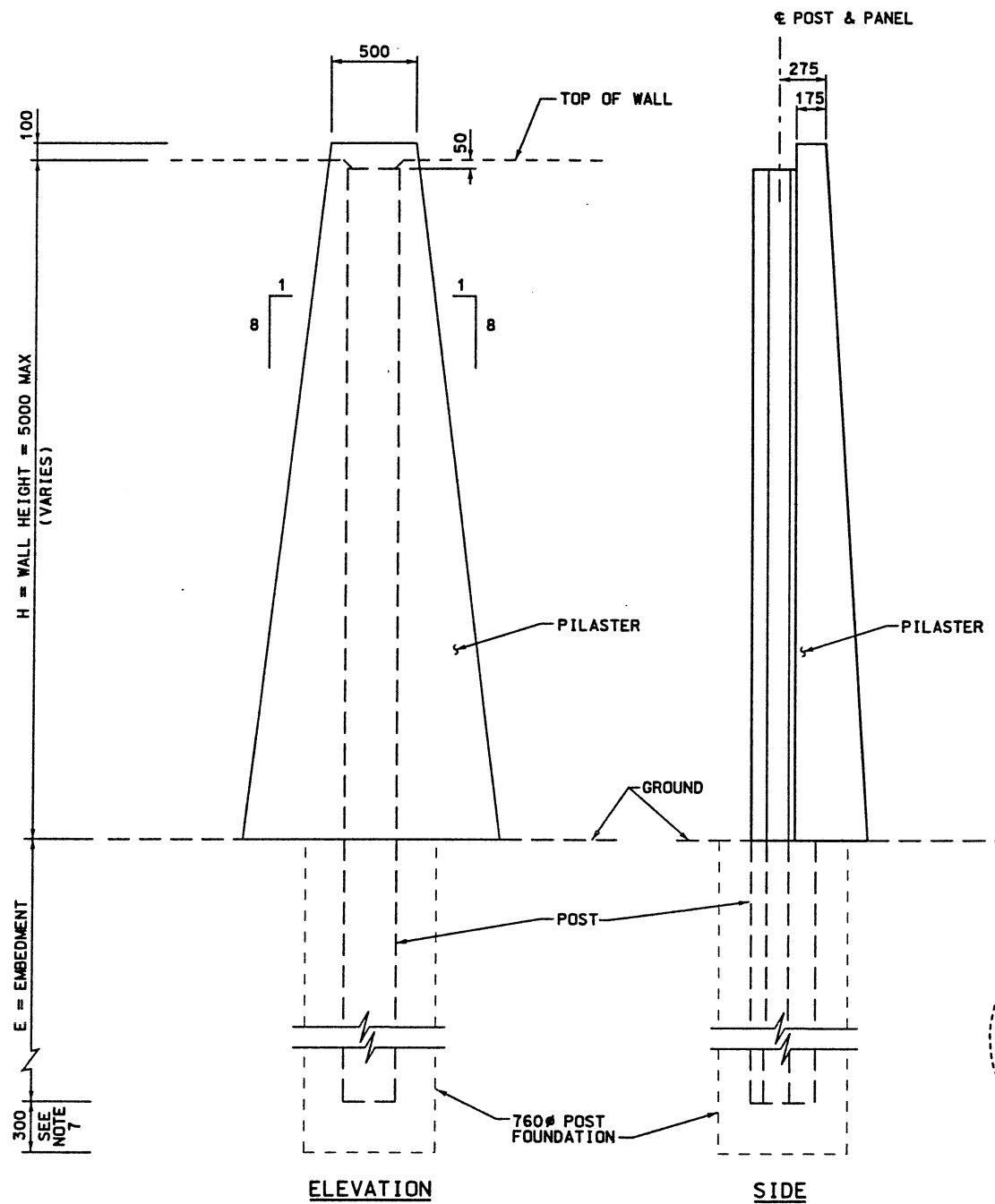
DETAIL 2

TYPICAL DRILLED & BONDED DETAIL NTS

- NOTES:**
- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'_c=28\text{MPa}$. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm OR 13mm RADIUS. PROVIDE 50mm COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
 - 2) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - 3) FOR POST FOUNDATION BACKFILL, SEE UDOT STD. 546-1 & 546-2.
 - 4) FOR ADDITIONAL INFORMATION ON DRILLING AND BONDING, REFER TO STANDARD SPECIFICATION (550). WASATCH CONSTRUCTORS

OCT 22 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	10/16/98	INITIAL	RELEASE
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		DESIGN	
DESIGN	DATE	CHECK	DATE
DESIGN	09-98	CHECK	09-98
PROJECT DESIGN ENGINEER		DRAWN	
JIM KILBANE		DATE	
SECTION MANAGER		QUANT.	
DATE		DATE	
09-98		09-98	
APPROVAL RECORD		APPROVED	
DATE		DATE	
09-98		09-98	
I-15 CORRIDOR RECONSTRUCTION		CORRIDOR STANDARD PLAN	
TYPE I PILASTER - PILE SUPPORT		PROJECT NUMBER	
		#SP-15-7(135)296	
SALT LAKE COUNTY			
DWC. NO.			
CS-39-1			
SHT. _____		OF _____	

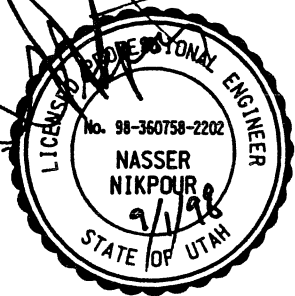


- NOTES:**
- 1) FABRICATOR FOR PRECAST UNITS SHALL SIZE AND LOCATE ANY LIFTING DEVICES FOR APPLIED LIFTING LOADS.
 - 2) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - 3) CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm EXCEPT WHERE NOTED OTHERWISE.
 - 4) PROVIDE 50mm CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
 - 5) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE SPECIFIED OTHERWISE. $f'c=28$ MPa.
 - 6) ALL EXPOSED SURFACES TO HAVE AN ORDINARY SURFACE FINISH WITH COATING OF CORRIDOR THEME COLOR.
 - 7) FOR POST FOUNDATION BACKFILL, SEE UDOT STD. 546-01 & 546-02.

INTEGRAL PRECAST POST AND PILASTER

DESIGN "H" IN METERS (MAX)	VERTICAL BAR SIZE	"E" IN METERS (E=0.90 X H)
2.75	#16	2.475
3.50	#22	3.15
4.25	#25	3.825
5.00	#32	4.50

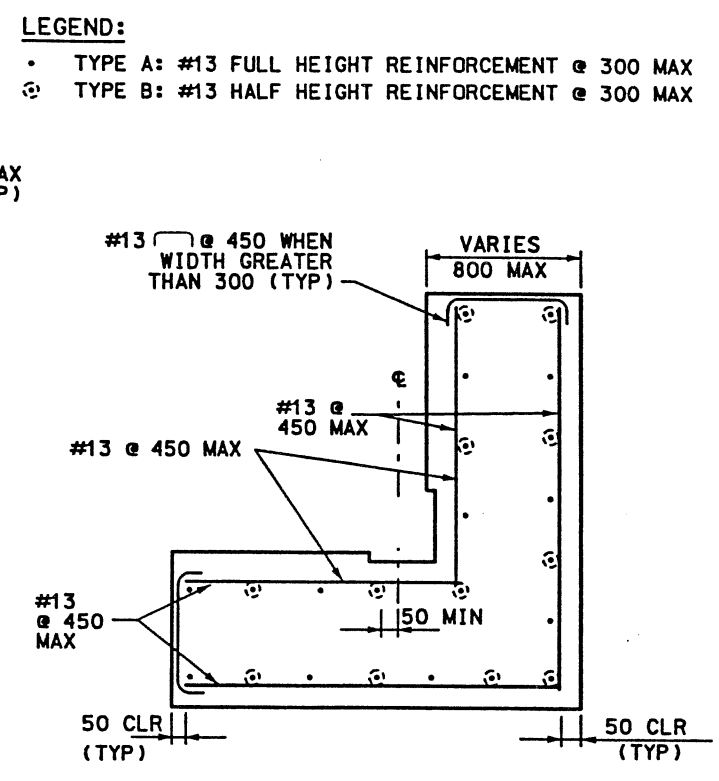
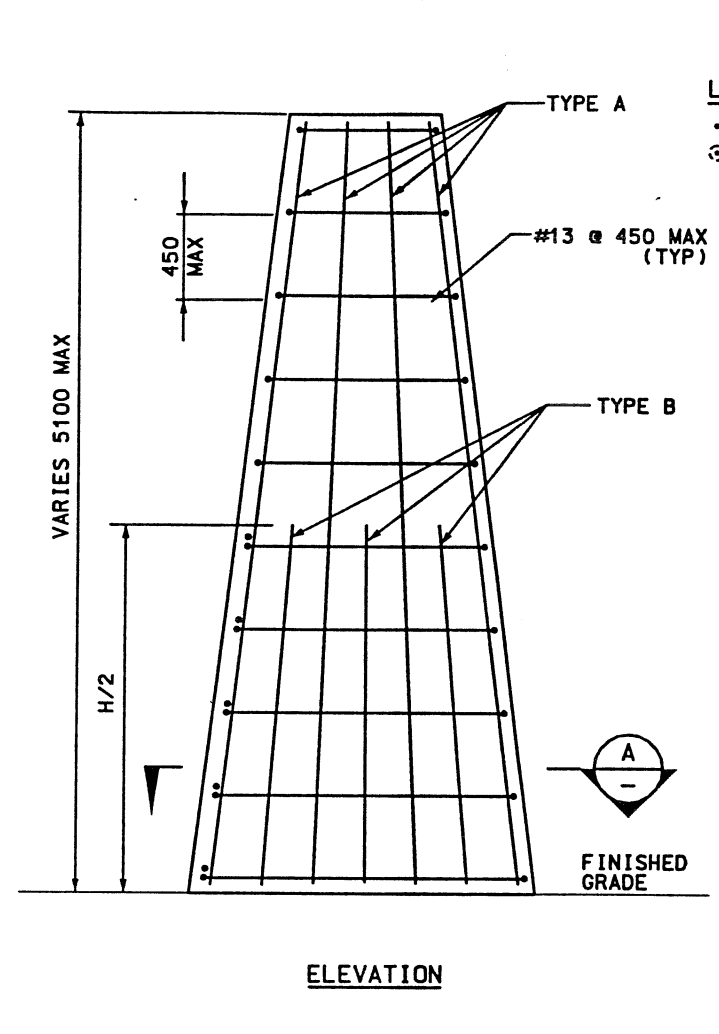
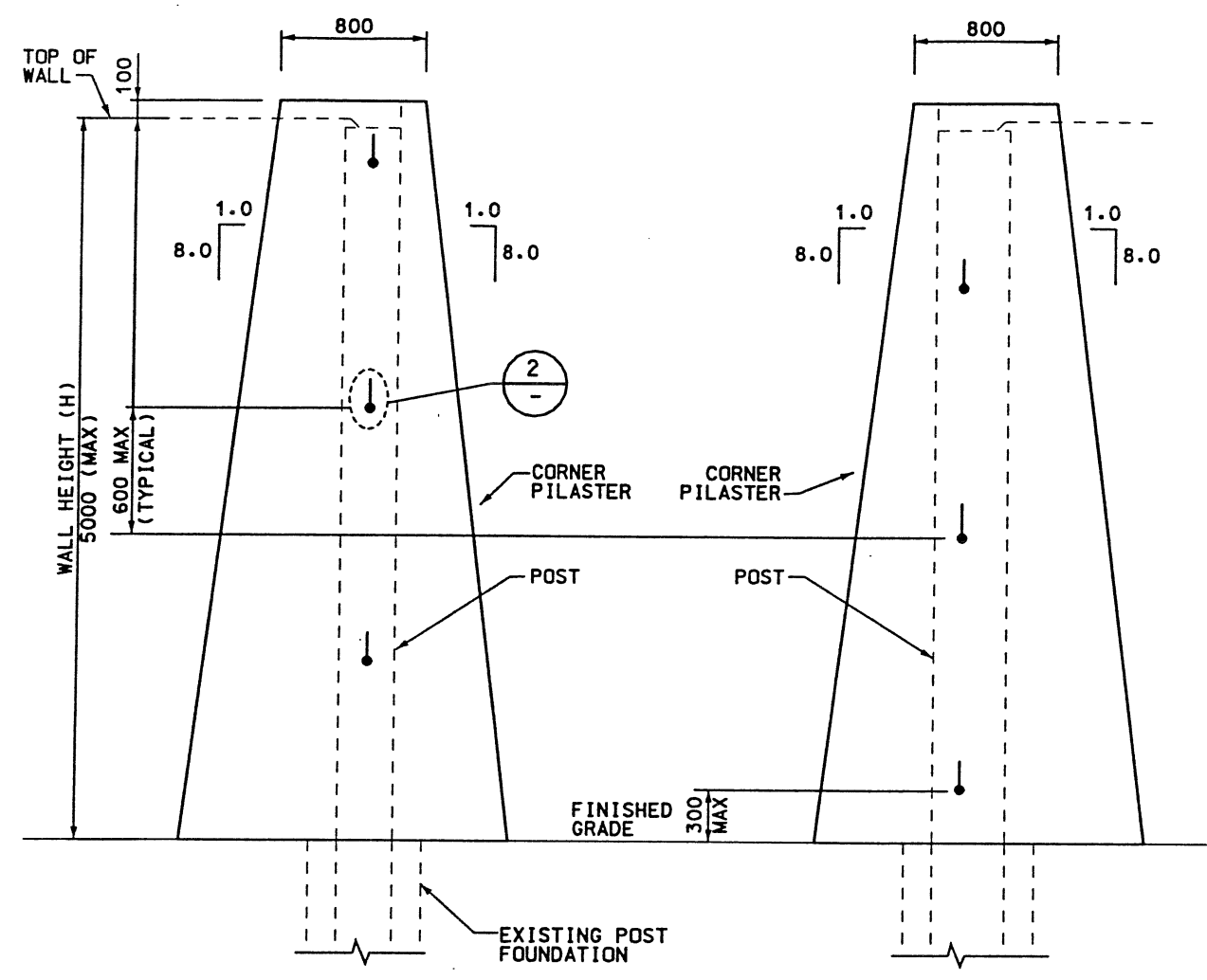
- LEGEND:**
- TYPE A: #13 FULL HEIGHT REINFORCEMENT @ 300 MAX
 - ⊙ TYPE B: #13 HALF HEIGHT REINFORCEMENT @ 300 MAX



WASATCH CONSTRUCTORS
SEP 02 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	08/31/98		
INITIAL RELEASE			
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		DESIGN SDP	CHECK
STANLEY POLASTIK		DATE	CHECK
PROJECT DESIGN ENGINEER		DRAWN DKC	CHECK
DATE		JIM KLENZ	CHECK
APPROVED		DATE	SECTION MANAGER
I-15 CORRIDOR RECONSTRUCTION		CORRIDOR STANDARD PLAN	
PRECAST POST AND PILASTER		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO. CS-39-3	
SHT.	OF		

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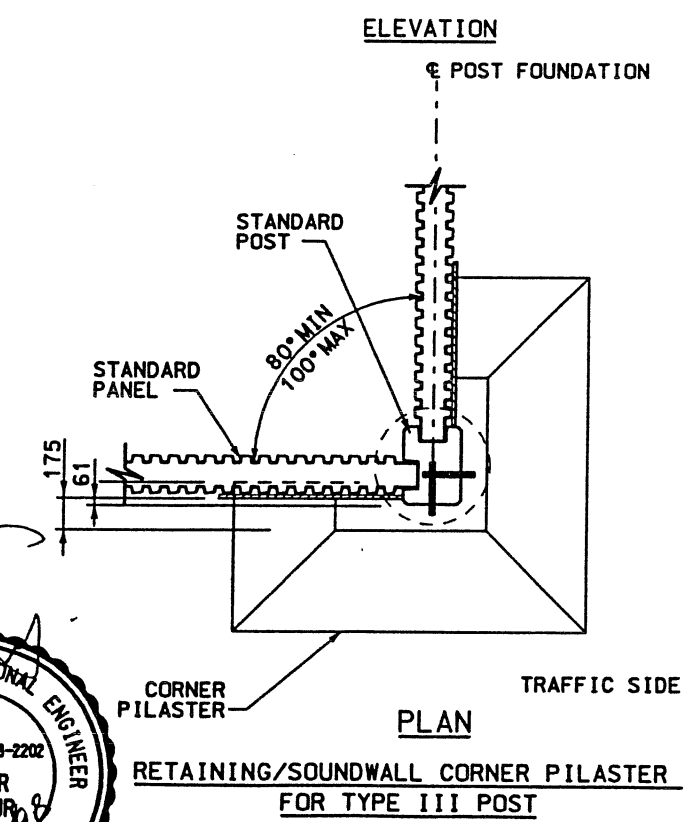
LEGEND:

- TYPE A: #13 FULL HEIGHT REINFORCEMENT @ 300 MAX
- ⊙ TYPE B: #13 HALF HEIGHT REINFORCEMENT @ 300 MAX

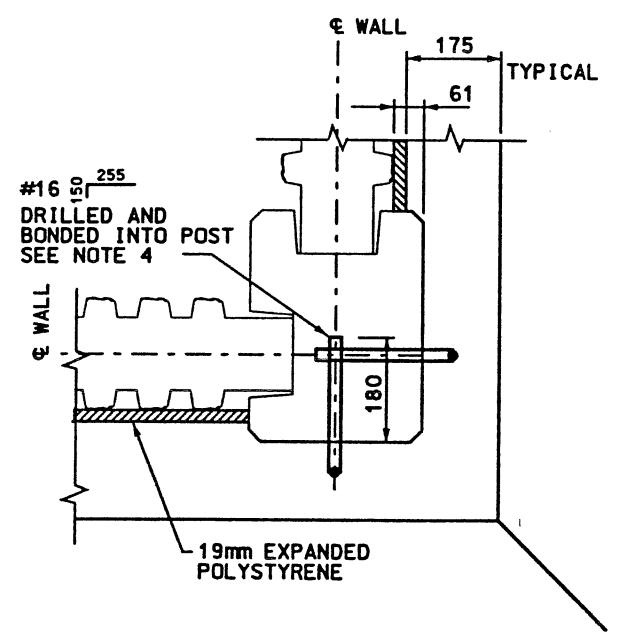
ELEVATION

SECTION A
NTS

TYPICAL PILASTER REINFORCEMENT
(FOR EACH LEG)

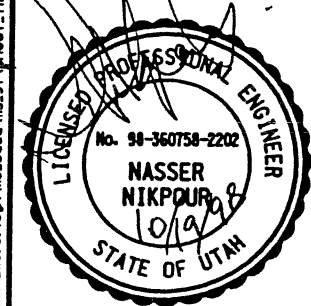


RETAINING/SOUNDWALL CORNER PILASTER
FOR TYPE III POST



DETAIL 2
TYPICAL ANCHOR DETAIL
NTS

- NOTES:**
- 1) ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE OTHERWISE NOTED. $f'c=28MPg$. CHAMFER ALL EXPOSED CONCRETE CORNERS 20mm OR 13mm RADIUS. PROVIDE 50mm COVER TO REINFORCING STEEL EXCEPT WHERE SPECIFIED OTHERWISE.
 - 2) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - 3) FOR POST FOUNDATION BACKFILL. SEE UDOT STD. 546-1 & 546-2.
 - 4) FOR ADDITIONAL INFORMATION ON DRILLING AND BONDING. REFER TO STANDARD SPECIFICATION (550).



WASATCH CONSTRUCTORS
 OCT 22 1998
 RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
	10/16/98		INITIAL RELEASE
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		DESIGN	CHECK
DESIGN	RH	05/93	SZ
PROJECT DESIGN ENGINEER	MJS	08/98	DH
SECTION MANAGER	JJM	08/98	CHECK
DATE		DATE	QUANT.
APPROVAL RECORD	09/98	NASSER NIKPOUR	09/98
DATE		PROJECT DESIGN ENGINEER	09/98
APPROVED	09/98	JJM	09/98
DATE		SECTION MANAGER	CHECK
I-15 CORRIDOR RECONSTRUCTION		TYPE III PILASTER	
CORRIDOR STANDARD PLAN		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. CS-40-2			
SHT. OF			