

STA. 30+00--35+00 LT MAIN ST. : EXIST. 6" X TRU STEEL .188 W.T. MED. PRES. GAS INST. 9/24/70 W/WELD JOINTS. MAG. ANODE SYSTEM.

① STA. 31+42.75 12.2' LT ASKEW MAIN ST. : EXIST. 1-1/4" NOBLOW CURB VALVE TEE FOR 1" X TRU STEEL SCH. 40 M.P. SERVICE TO #536 MAIN ST.. MAG. ANODE SYSTEM.

⑦ STA. 31+41.1 36.4' LT MAIN ST. : TAP NEW 6" X TRU M.P. STEEL W/1-1/4" NOBLOW CURB VALVE TEE & RECONNECT TO EXIST. 1" X TRU STEEL M.P. SERVICE TO #536 MAIN ST.

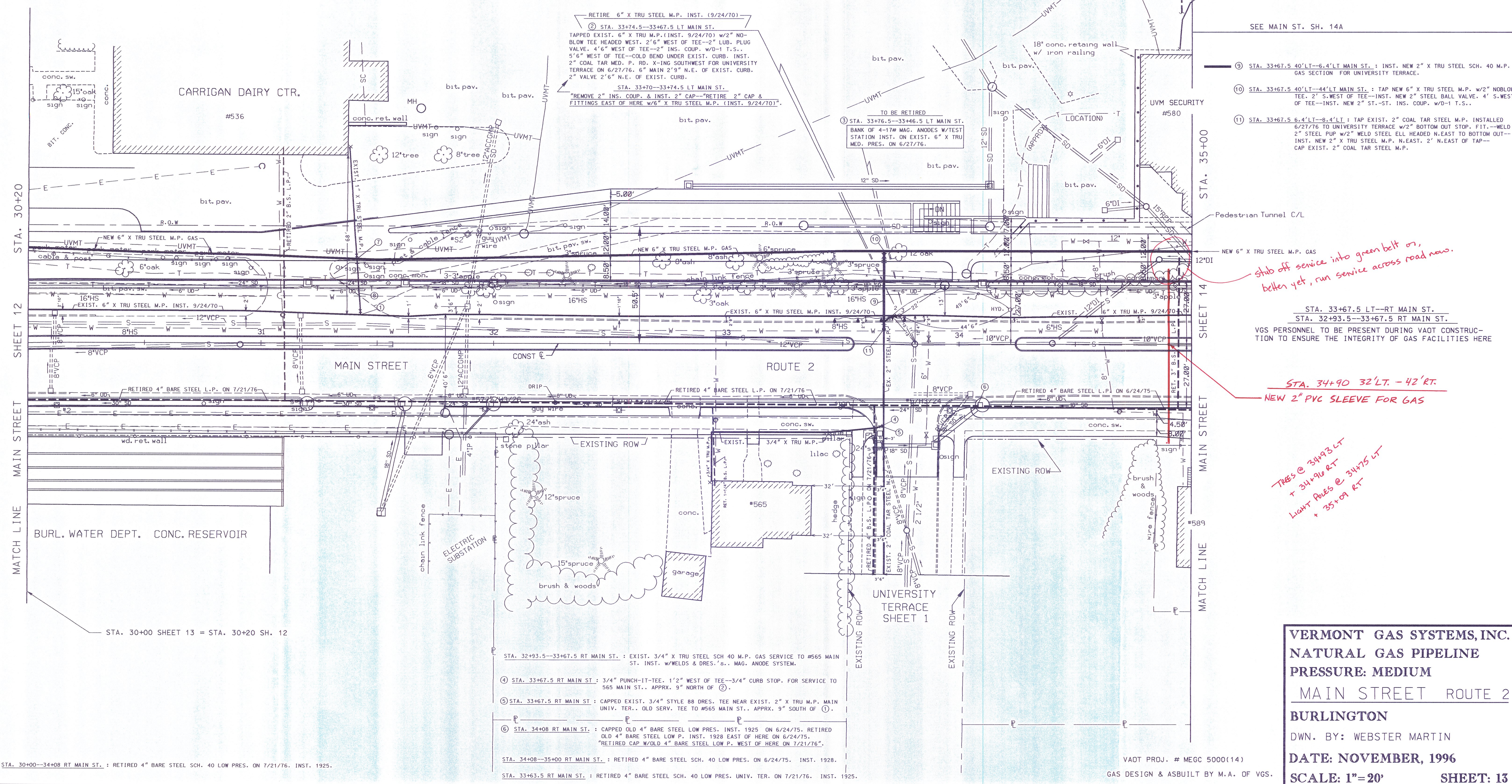
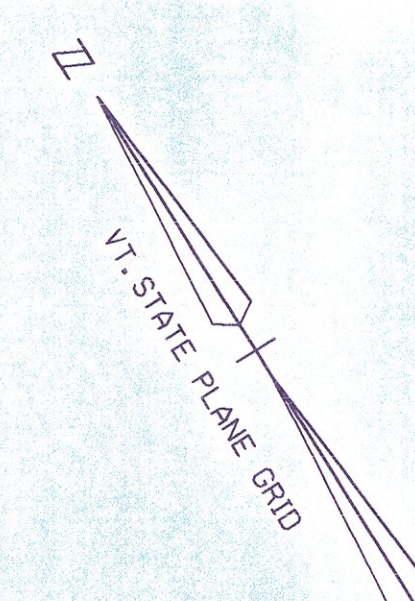
⑧ STA. 30+00--35+00 LT MAIN ST. : PROPOSED NEW 6" X TRU STEEL .188 W.T. MED. PRES. GAS W/WELD JOINTS. MAG. ANODE SYSTEM.

⑨ STA. 30+00--35+00 LT MAIN ST. : EXIST. 6" X TRU STEEL .188 W.T. MED. PRES. GAS TO BE RETIRED IN PLACE. INST. 9/24/70 W/WELD JOINTS.

STA. 33+67.5 LT--RT MAIN ST. : EXIST. 2" COAL TAR STEEL SCH. 40 MED. PRES. GAS INST. 6/27/76 W/POSITION FOR UNIVERSITY TERRACE. MAG. ANODE SYSTEM.

STA. 34+94.5 RT--LT MAIN ST. : RETIRED 3" BARE STEEL SCH. 40 LOW PRES. TO UVM EAST CAMPUS ON 6/24/75. INST. 1949.

UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE



STA. 30+20

SHEET 12

MAIN STREET

MATCH LINE

STA. 30+00 SHEET 13 = STA. 30+20 SH. 12

SEE MAIN ST. SH. 14A

SEE MAIN ST. SH. 14A

STA. 35+00

SHEET 14

MAIN STREET

MATCH LINE

STA. 32+93.5--33+67.5 RT MAIN ST. : EXIST. 3/4" X TRU STEEL SCH 40 M.P. GAS SERVICE TO #565 MAIN ST. INST. W/WELDS & DRES.'S.. MAG. ANODE SYSTEM.

④ STA. 33+67.5 RT MAIN ST. : 3/4" PUNCH-IT-TEE. 1' 2" WEST OF TEE--3/4" CURB STOP. FOR SERVICE TO 565 MAIN ST.. APPRX. 9" NORTH OF ③.

⑤ STA. 33+67.5 RT MAIN ST. : CAPPED EXIST. 3/4" STYLE 88 DRES. TEE NEAR EXIST. 2" X TRU M.P. MAIN UNIV. TER.. OLD SERV. TEE TO #565 MAIN ST.. APPRX. 9" SOUTH OF ④.

⑥ STA. 34+08 RT MAIN ST. : CAPPED OLD 4" BARE STEEL LOW PRES. INST. 1925 ON 6/24/75. RETIRED OLD 4" BARE STEEL LOW P. INST. 1928 EAST OF HERE ON 6/24/75. RETIRED CAP W/OLD 4" BARE STEEL LOW P. WEST OF HERE ON 7/21/76.

STA. 34+08--35+00 RT MAIN ST. : RETIRED 4" BARE STEEL SCH. 40 LOW PRES. ON 6/24/75. INST. 1928.

STA. 33+63.5 RT MAIN ST. : RETIRED 4" BARE STEEL SCH. 40 LOW PRES. UNIV. TER. ON 7/21/76. INST. 1925.

⑨ STA. 33+67.5 40' LT--6.4' LT MAIN ST. : INST. NEW 2" X TRU STEEL SCH. 40 M.P. GAS SECTION FOR UNIVERSITY TERRACE.

⑩ STA. 33+67.5 40' LT--44' LT MAIN ST. : TAP NEW 6" X TRU STEEL M.P. W/2" NOBLOW TEE. 2' S. WEST OF TEE--INST. NEW 2" STEEL BALL VALVE. 4' S. WEST OF TEE--INST. NEW 2" ST.-ST. INS. COUP. W/D-1 T.S..

⑪ STA. 33+67.5 6.4' LT--8.4' LT : TAP EXIST. 2" COAL TAR STEEL M.P. INSTALLED 6/27/76 TO UNIVERSITY TERRACE W/2" BOTTOM OUT STOP. FIT.--WELD 2" STEEL PIP W/2" WELD STEEL ELL HEADED N.EAST TO BOTTOM OUT--INST. NEW 2" X TRU STEEL M.P. N.EAST. 2' N.EAST OF TAP--CAP EXIST. 2" COAL TAR STEEL M.P.

*shut off service into green belt or, better yet, run service across road now.*

STA. 33+67.5 LT--RT MAIN ST. STA. 32+93.5--33+67.5 RT MAIN ST. VGS PERSONNEL TO BE PRESENT DURING VAOT CONSTRUCTION TO ENSURE THE INTEGRITY OF GAS FACILITIES HERE

*STA. 34+90 32' LT. - 42' RT. NEW 2" PVC SLEEVE FOR GAS*

*Trees @ 34+93 LT + 34+96 RT Light Poles @ 34+75 LT + 35+09 RT*

VERMONT GAS SYSTEMS, INC. NATURAL GAS PIPELINE PRESSURE: MEDIUM

MAIN STREET ROUTE 2 BURLINGTON

DWN. BY: WEBSTER MARTIN

DATE: NOVEMBER, 1996

SCALE: 1"=20' SHEET: 13

VAOT PROJ. # MEGC 5000(14) GAS DESIGN & ASBUILT BY M.A. OF VGS.

- ① STA. 26+69.7 LT MAIN ST. / 501+33.3 LT UNIV. : 2-6"x90" WELD STEEL ELLS--2'0" VERTICAL OFFSET HEADED UP GOING EAST--9/24/70. 5' DEEP TO 3'0" DEEP.
- ② STA. 27+04.4 LT MAIN ST. / 501+28.9 RT UNIV. : 6"x6"x6" WELD STEEL TEE. 4'4" WEST OF TEE--6" LUB. PLUG VALVE. 1'4" SOUTH OF TEE--6" LUB. PLUG VALVE. 9/24/70.

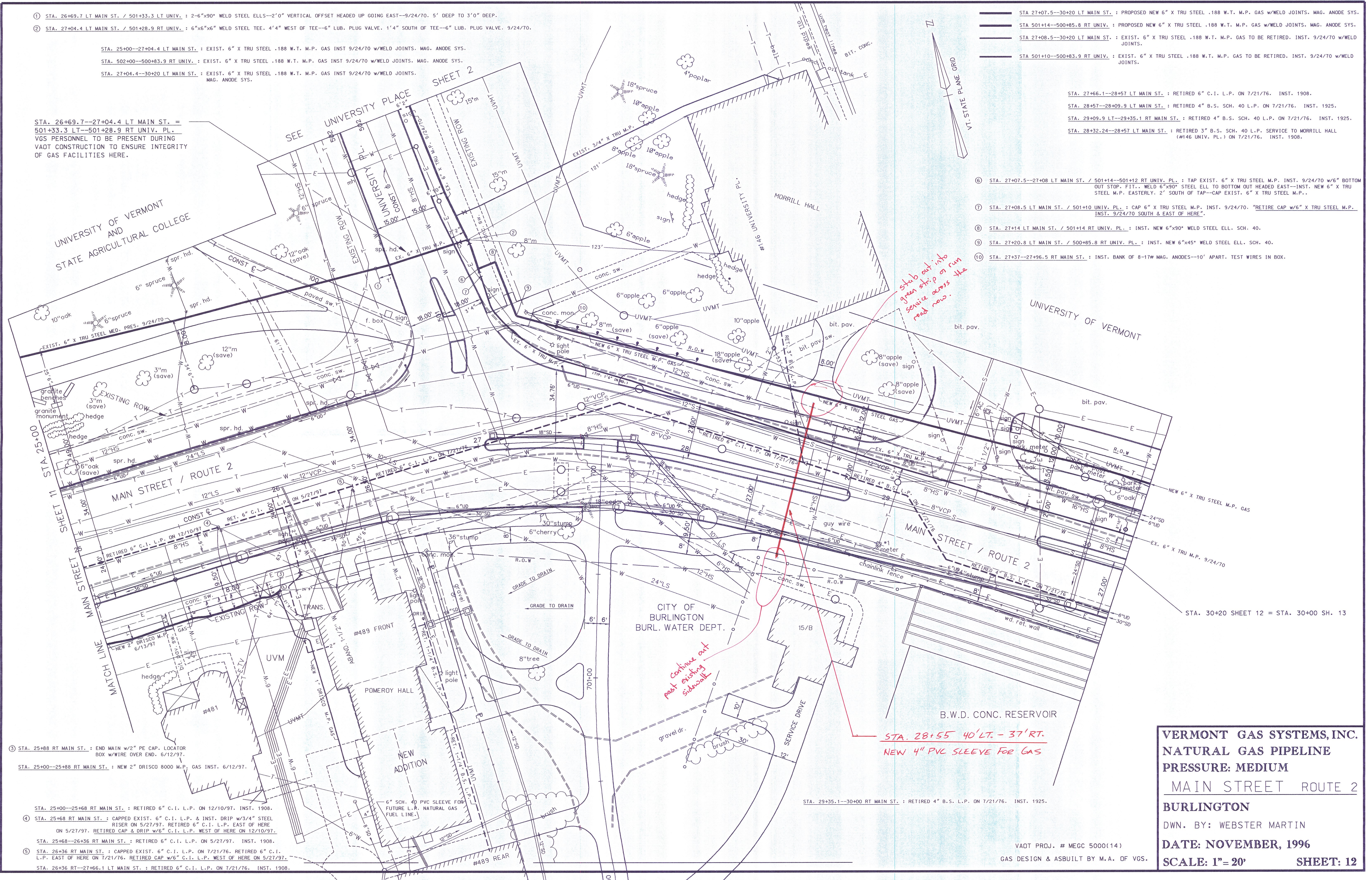
STA. 25+00--27+04.4 LT MAIN ST. : EXIST. 6" X TRU STEEL .188 W.T. M.P. GAS INST 9/24/70 W/WELD JOINTS. MAG. ANODE SYS.  
 STA. 502+00--500+83.9 RT UNIV. : EXIST. 6" X TRU STEEL .188 W.T. M.P. GAS INST 9/24/70 W/WELD JOINTS. MAG. ANODE SYS.  
 STA. 27+04.4--30+20 LT MAIN ST. : EXIST. 6" X TRU STEEL .188 W.T. M.P. GAS INST 9/24/70 W/WELD JOINTS. MAG. ANODE SYS.

STA. 26+69.7--27+04.4 LT MAIN ST. = 501+33.3 LT--501+28.9 RT UNIV. PL. VGS PERSONNEL TO BE PRESENT DURING VAOT CONSTRUCTION TO ENSURE INTEGRITY OF GAS FACILITIES HERE.

- STA 27+07.5--30+20 LT MAIN ST. : PROPOSED NEW 6" X TRU STEEL .188 W.T. M.P. GAS W/WELD JOINTS. MAG. ANODE SYS.
- STA 501+14--500+85.8 RT UNIV. : PROPOSED NEW 6" X TRU STEEL .188 W.T. M.P. GAS W/WELD JOINTS. MAG. ANODE SYS.
- STA 27+08.5--30+20 LT MAIN ST. : EXIST. 6" X TRU STEEL .188 W.T. M.P. GAS TO BE RETIRED. INST. 9/24/70 W/WELD JOINTS.
- STA 501+10--500+83.9 RT UNIV. : EXIST. 6" X TRU STEEL .188 W.T. M.P. GAS TO BE RETIRED. INST. 9/24/70 W/WELD JOINTS.

- STA. 27+66.1--28+57 LT MAIN ST. : RETIRED 6" C.I. L.P. ON 7/21/76. INST. 1908.
- STA. 28+57--28+09.9 LT MAIN ST. : RETIRED 4" B.S. SCH. 40 L.P. ON 7/21/76. INST. 1925.
- STA. 29+09.9 LT--29+35.1 RT MAIN ST. : RETIRED 4" B.S. SCH. 40 L.P. ON 7/21/76. INST. 1925.
- STA. 28+32.24--28+57 LT MAIN ST. : RETIRED 3" B.S. SCH. 40 L.P. SERVICE TO MORRILL HALL (#146 UNIV. PL.) ON 7/21/76. INST. 1908.

- ⑥ STA. 27+07.5--27+08 LT MAIN ST. / 501+14--501+12 RT UNIV. PL. : TAP EXIST. 6" X TRU STEEL M.P. INST. 9/24/70 W/6" BOTTOM OUT STOP. FIT. WELD 6"x90" STEEL ELL TO BOTTOM OUT HEADED EAST--INST. NEW 6" X TRU STEEL M.P. EASTERLY. 2' SOUTH OF TAP--CAP EXIST. 6" X TRU STEEL M.P..
- ⑦ STA. 27+08.5 LT MAIN ST. / 501+10 UNIV. PL. : CAP 6" X TRU STEEL M.P. INST. 9/24/70. "RETIRE CAP W/6" X TRU STEEL M.P. INST. 9/24/70 SOUTH & EAST OF HERE".
- ⑧ STA. 27+14 LT MAIN ST. / 501+14 RT UNIV. PL. : INST. NEW 6"x90" WELD STEEL ELL. SCH. 40.
- ⑨ STA. 27+20.8 LT MAIN ST. / 500+85.8 RT UNIV. PL. : INST. NEW 6"x45" WELD STEEL ELL. SCH. 40.
- ⑩ STA. 27+37--27+96.5 RT MAIN ST. : INST. BANK OF 8-17# MAG. ANODES--10' APART. TEST WIRES IN BOX.



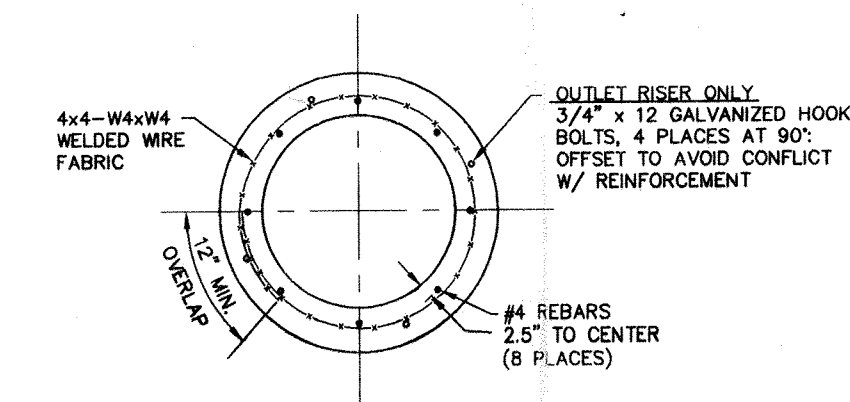
*Stub out into green strip on run service across the road now.*

*Continue out past existing sidewalk.*

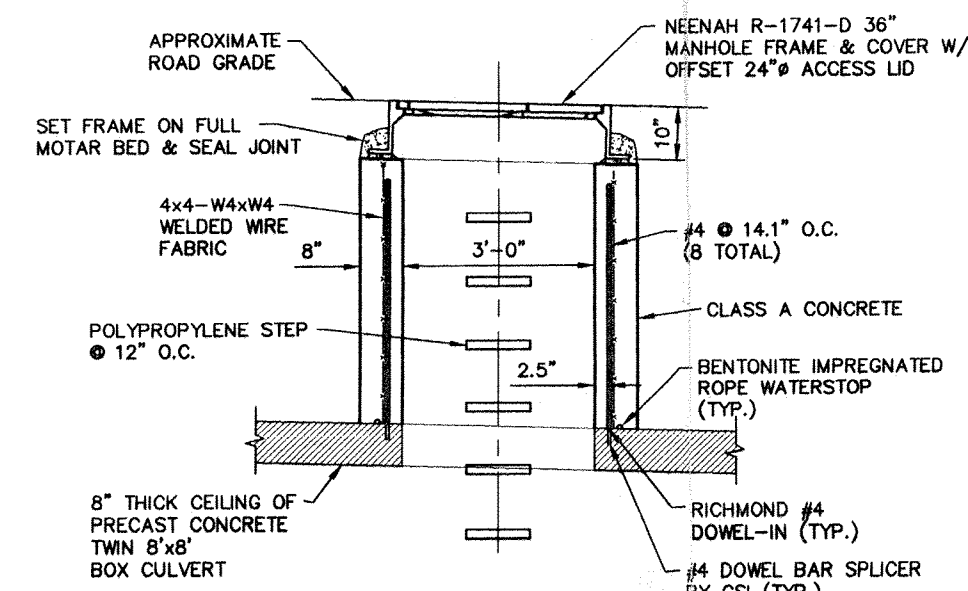
*STA. 28+55 40'LT. - 37'RT. NEW 4" PVC SLEEVE FOR GAS*

**VERMONT GAS SYSTEMS, INC.**  
**NATURAL GAS PIPELINE**  
**PRESSURE: MEDIUM**  
**MAIN STREET ROUTE 2**  
**BURLINGTON**  
 DWN. BY: WEBSTER MARTIN  
**DATE: NOVEMBER, 1996**  
**SCALE: 1"=20'** **SHEET: 12**

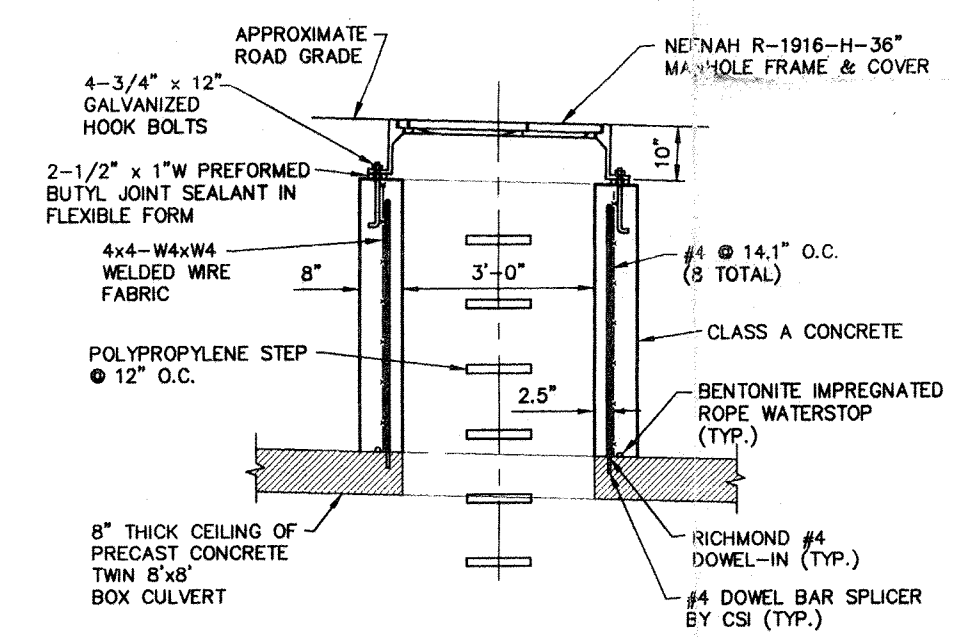
VAOT PROJ. # MEGC 5000(14)  
 GAS DESIGN & ASBUILT BY M.A. OF VGS.



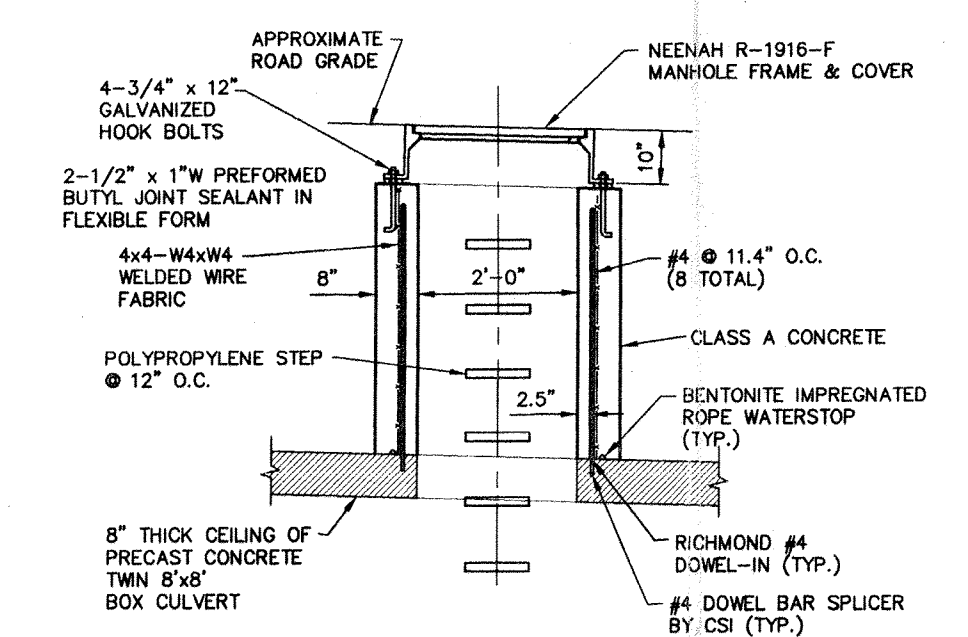
**PLAN VIEW - 36" RISER SECTION**  
1/2" = 1'-0"



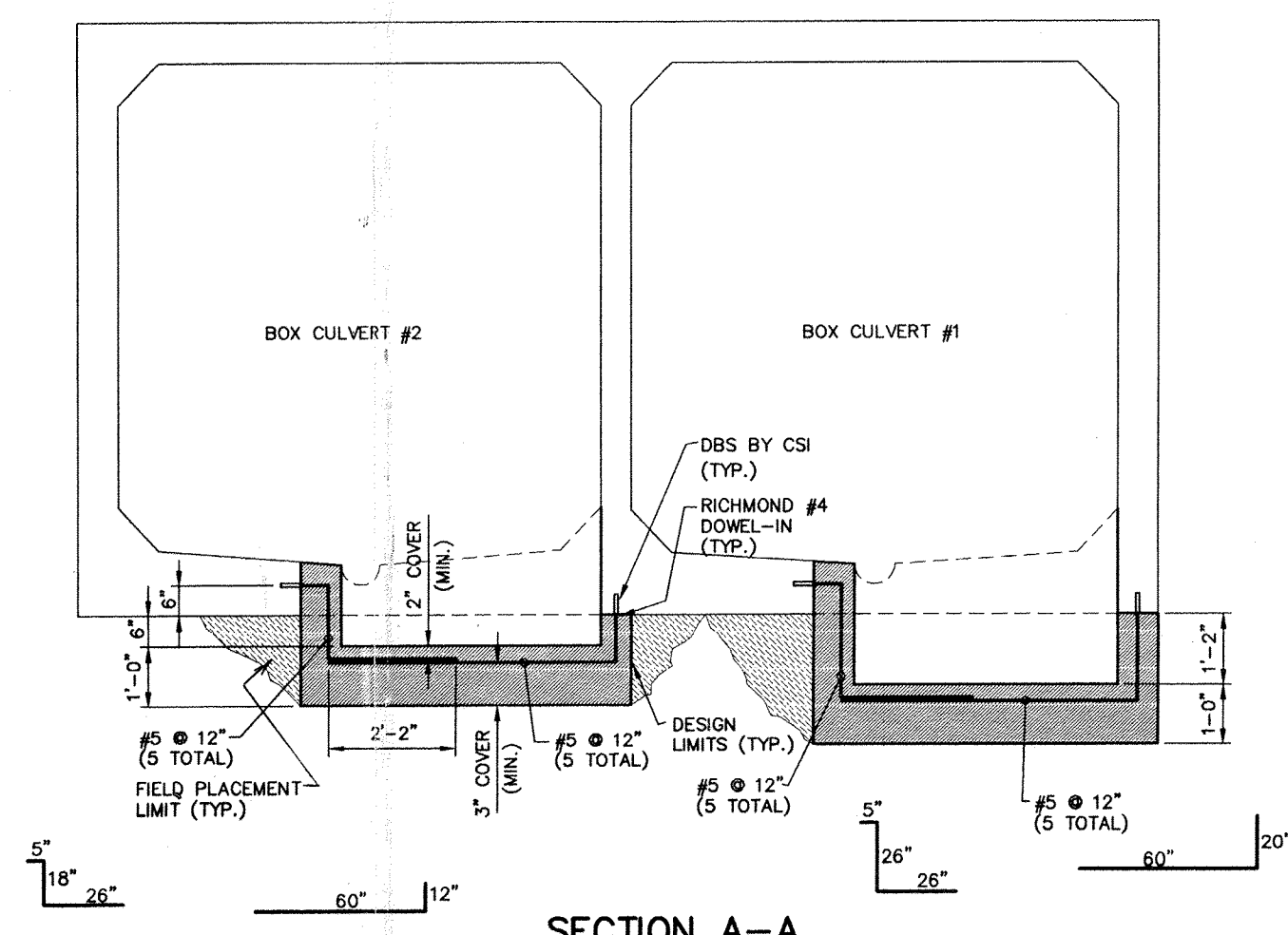
**36" RISER SECTION - INLET END**  
1/2" = 1'-0"



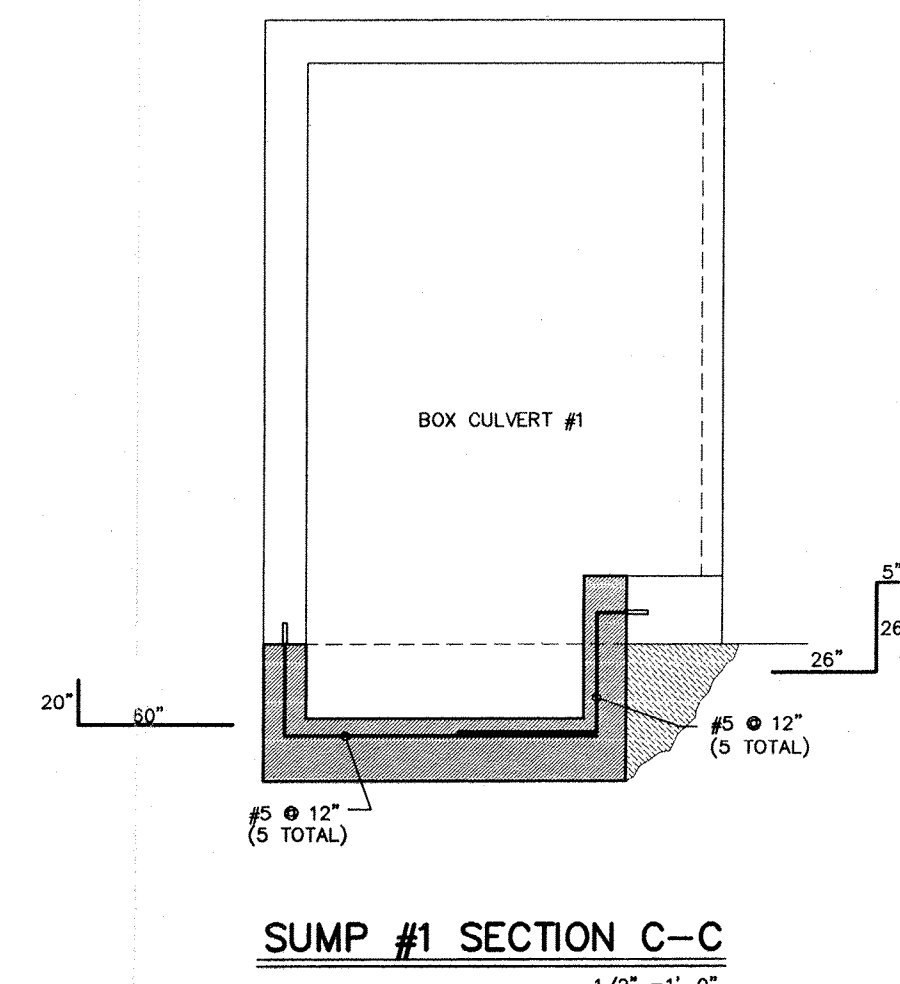
**36" RISER SECTION - OUTLET END**  
1/2" = 1'-0"



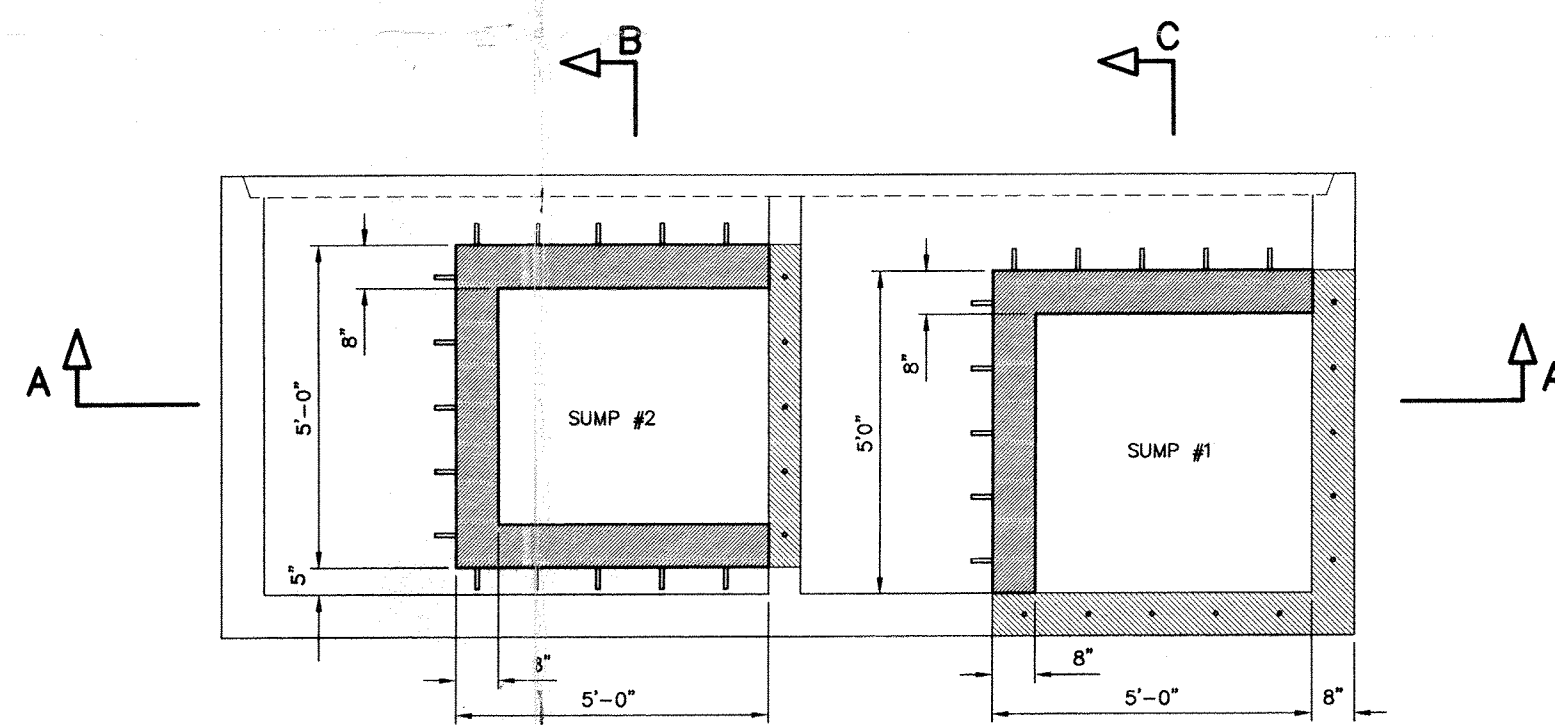
**24" RISER SECTION - OUTLET END**  
1/2" = 1'-0"



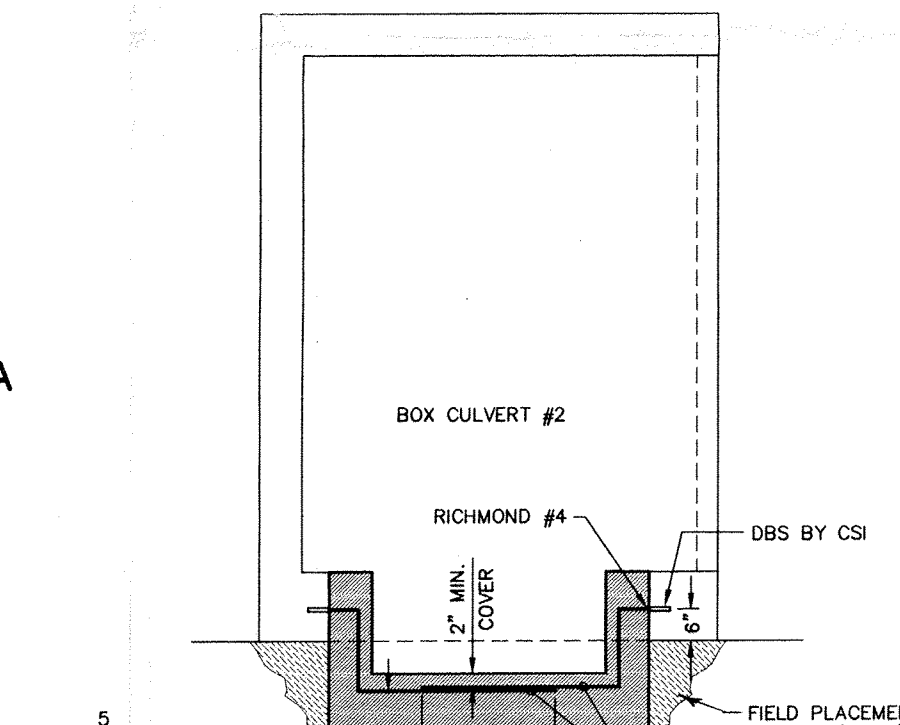
**SECTION A-A**  
1/2" = 1'-0"



**SUMP #1 SECTION C-C**  
1/2" = 1'-0"



**PLAN VIEW**  
1/2" = 1'-0"

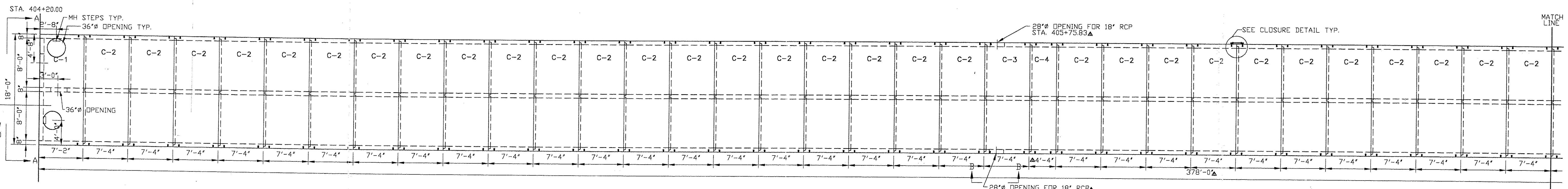


**SUMP #2 SECTION B-B**  
1/2" = 1'-0"

Date		Revision		BURLINGTON VERMONT	
Drawn by	ACI	Date	MAY 1998	SHEET	
Checked by	DSM	Scale	AS SHOWN	1	
Approved by		Project No.	98201	CIVIL ENGINEERING ASSOCIATES, INC. SHELburnE, VERMONT	

**MAIN STREET RECONSTRUCTION  
STORMWATER DETENTION CISTERN  
RISER & SUMP DETAILS**

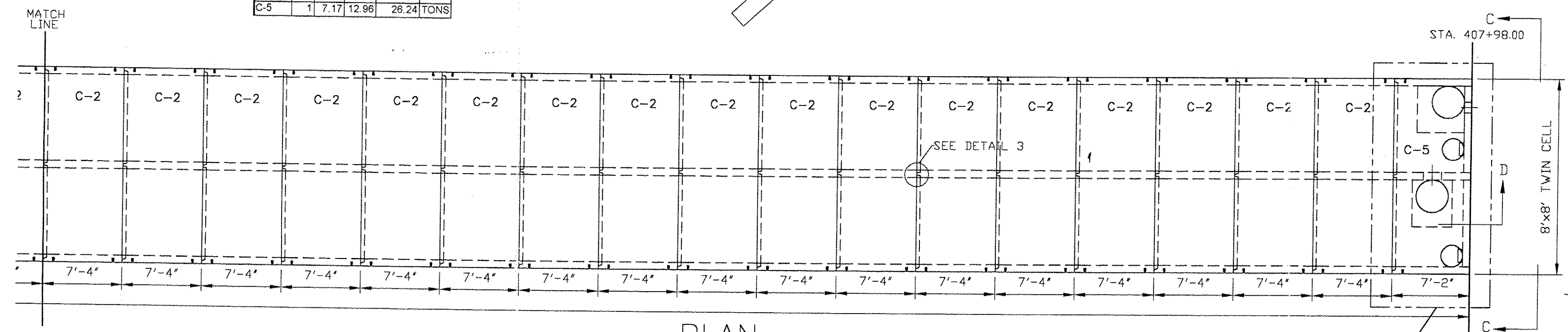
CIVIL ENGINEERING ASSOCIATES, INC.  
SHELburnE, VERMONT



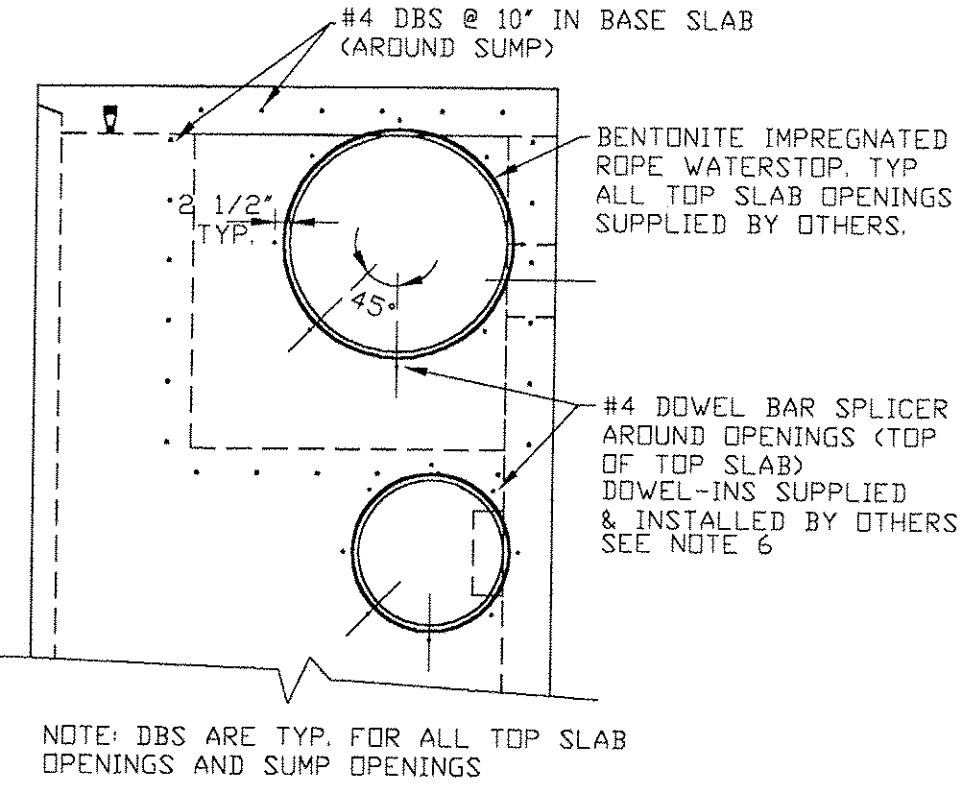
MARK	QTY	LENGTH	WEIGHT	0
C-1	1	7.17	14.56	29.48 TONS
C-2	48	7.33	12.35	25.00 TONS
C-3	1	7.33	12.35	25.00 TONS
C-4	1	4.67	7.86	15.92 TONS
C-5	1	7.17	12.96	26.24 TONS

PLAN  
SCALE 1/8" = 1'-0"

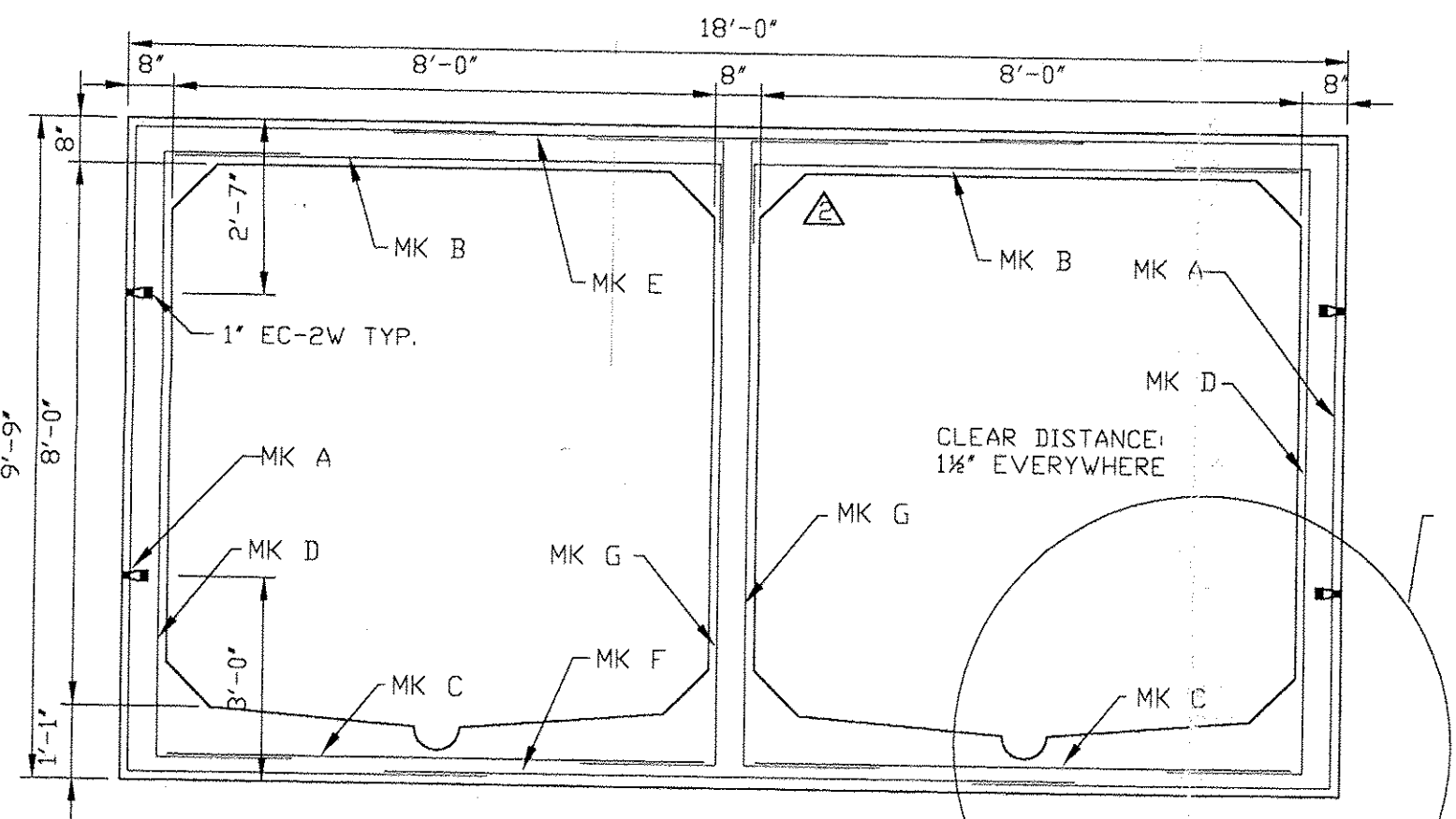
- GENERAL NOTES:**
- Structure designed and built in accordance with ACI 318-95 "Building Code Requirements for Structural Concrete" and AASHTO "Standard Specifications for Highway Bridges", and ASTM C789.
  - Design Parameters**  
 Live load: AASHTO HS25  
 Earth Cover: 5.25'  
 Concrete: Design strength  $f'_c = 5000$  psi  
 Unit weight = 150 pcf  
 Reinforcing: ASTM A185 (WWF)  $f_y = 60$  ksi  
 Soil: Unit weight = 140 pcf  
 Minimum lateral pressure coefficient .25  
 Maximum lateral pressure coefficient .50  
 Cover to reinforcing: 1 1/2" everywhere
  - Dimensions include a 1/2" joint gap. Actual lay length per piece is 1/2" shorter (I.E. C-2 = 7-3 1/2")
  - NO Dampproofing required.
  - All pipe sleeves to be cast-in by CSI, supplied by others.
  - Dowel-ins for sump and MH openings are Richmond #4. Supplied and installed by others.
  - Engineer must be notified (3) three weeks prior to first pour.



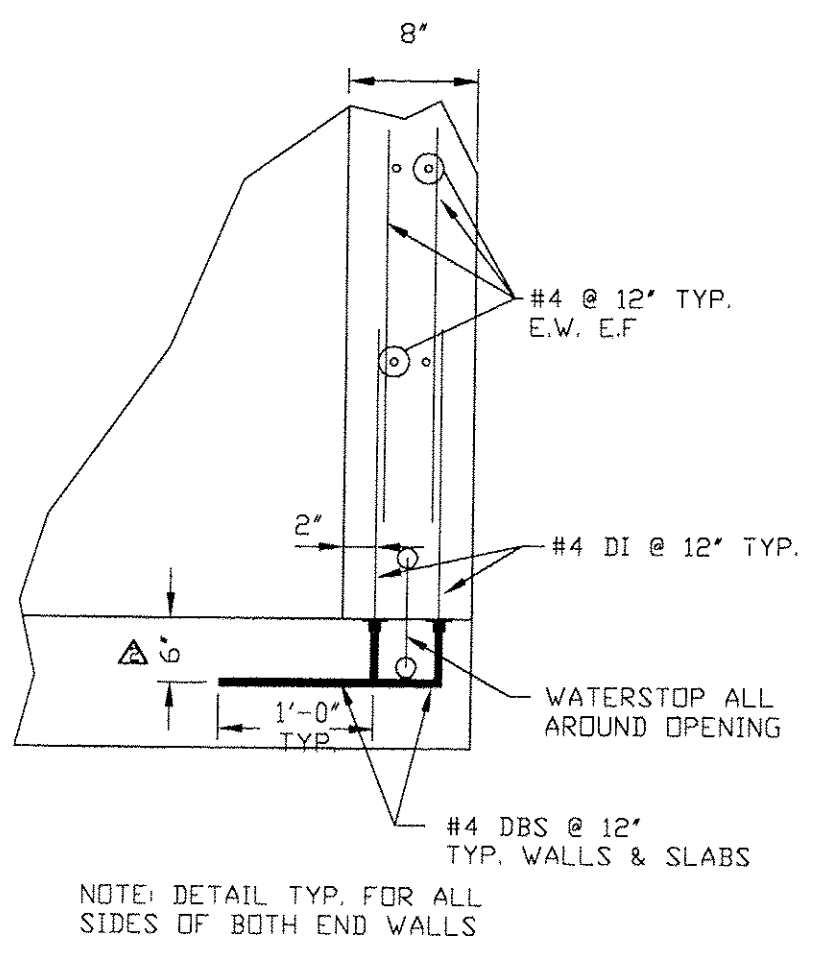
PLAN  
SCALE 1/8" = 1'-0"



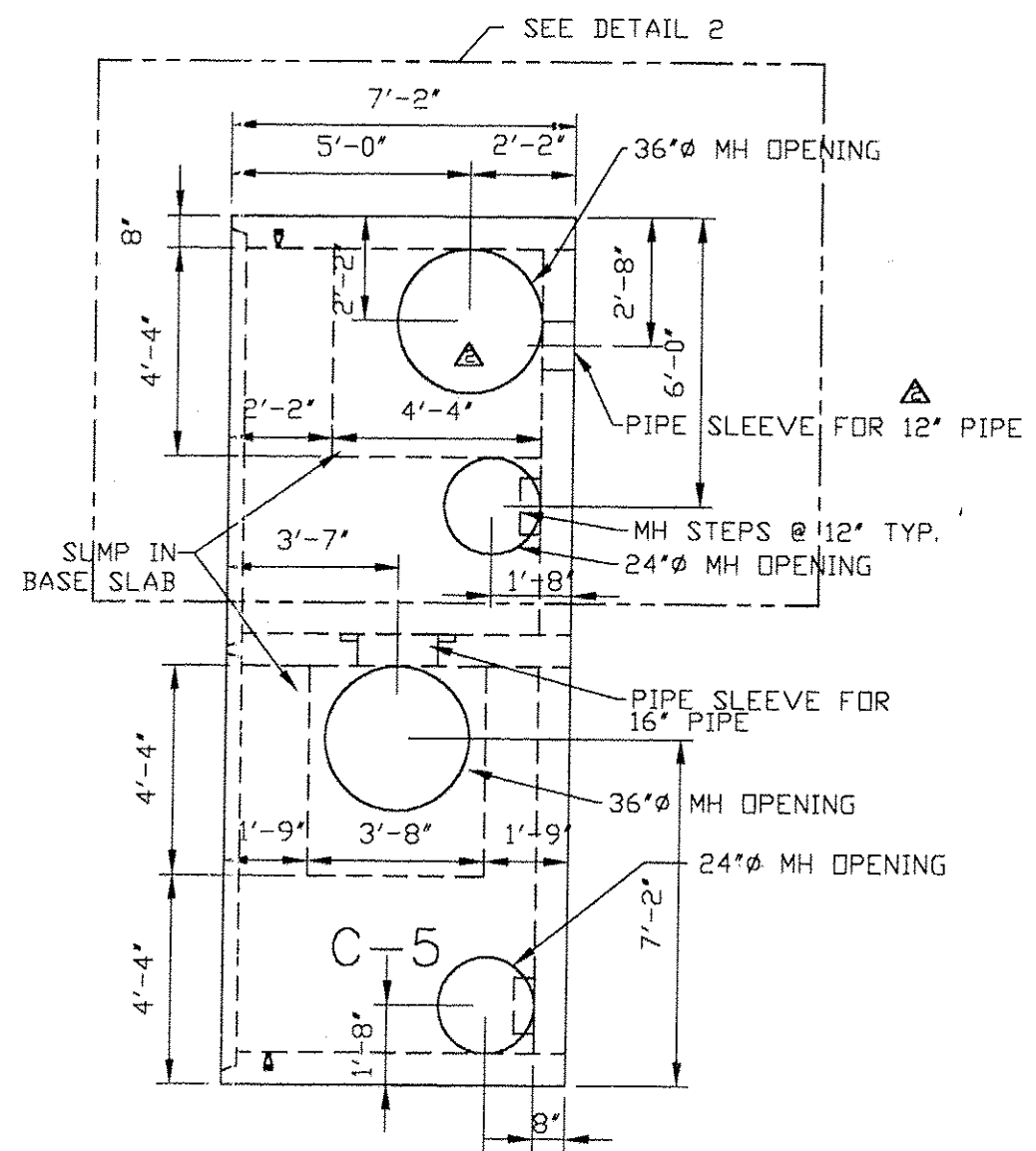
DETAIL 2  
SCALE 3/8" = 1'-0"



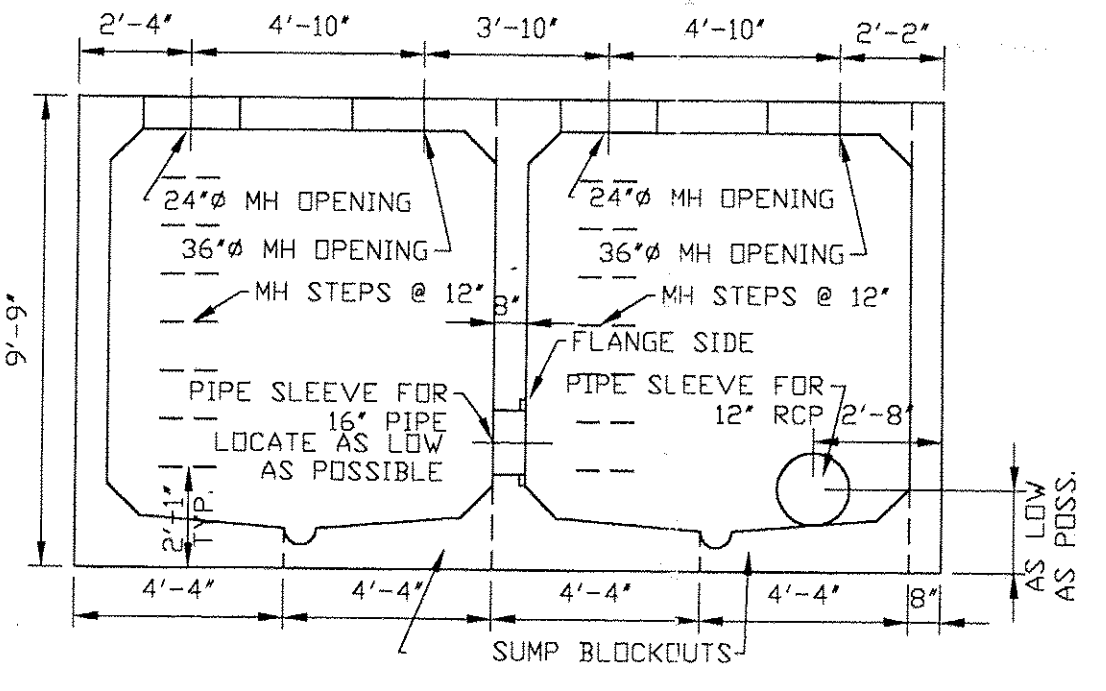
SECTION  
SCALE 3/8" = 1'-0"



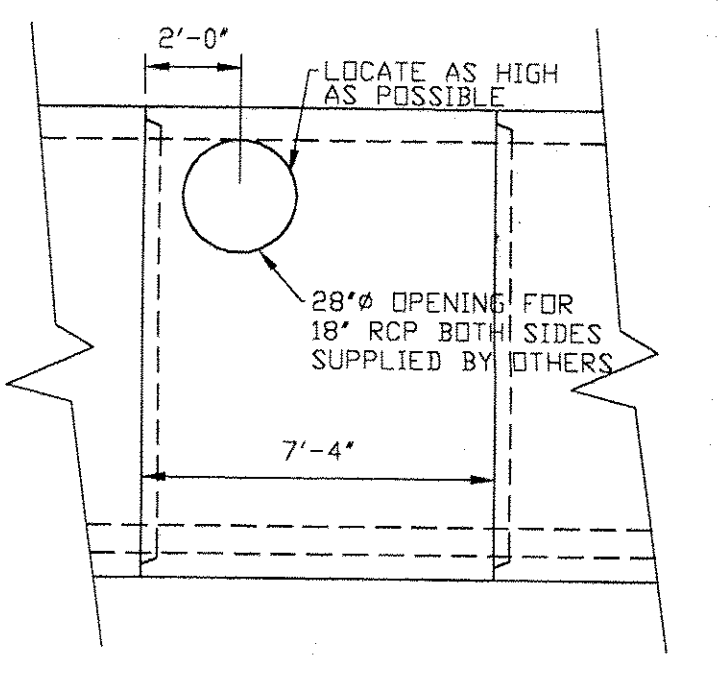
SECTION D  
SCALE 1" = 1'-0"



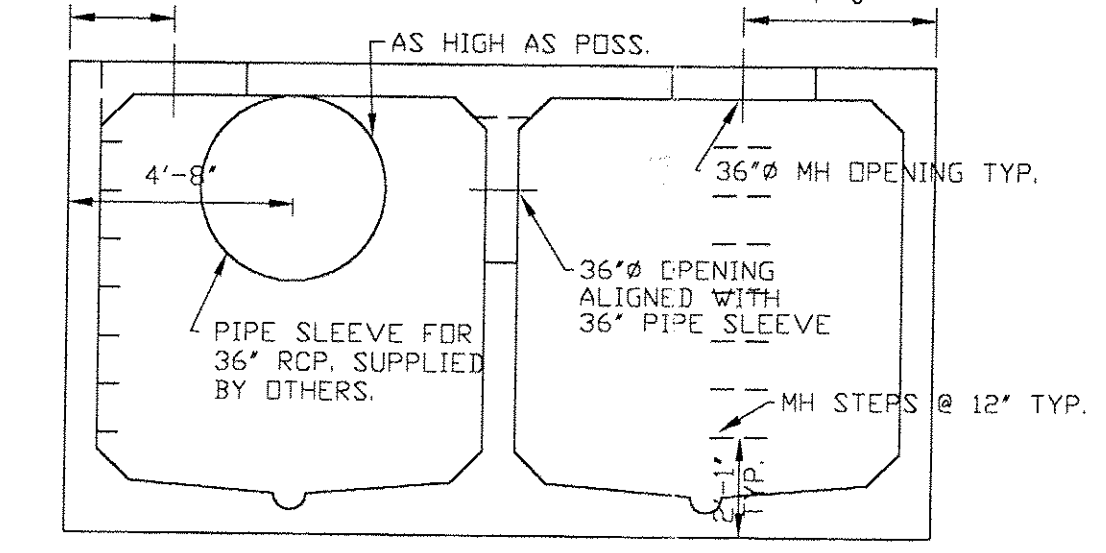
DETAIL 4  
SCALE 1/4" = 1'-0"



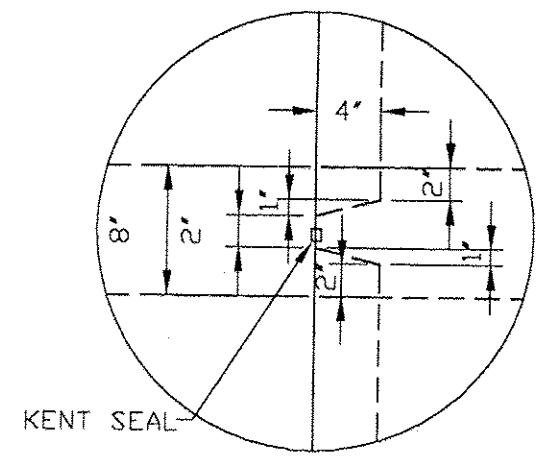
ELEVATION C-C  
SCALE 1/4" = 1'-0"



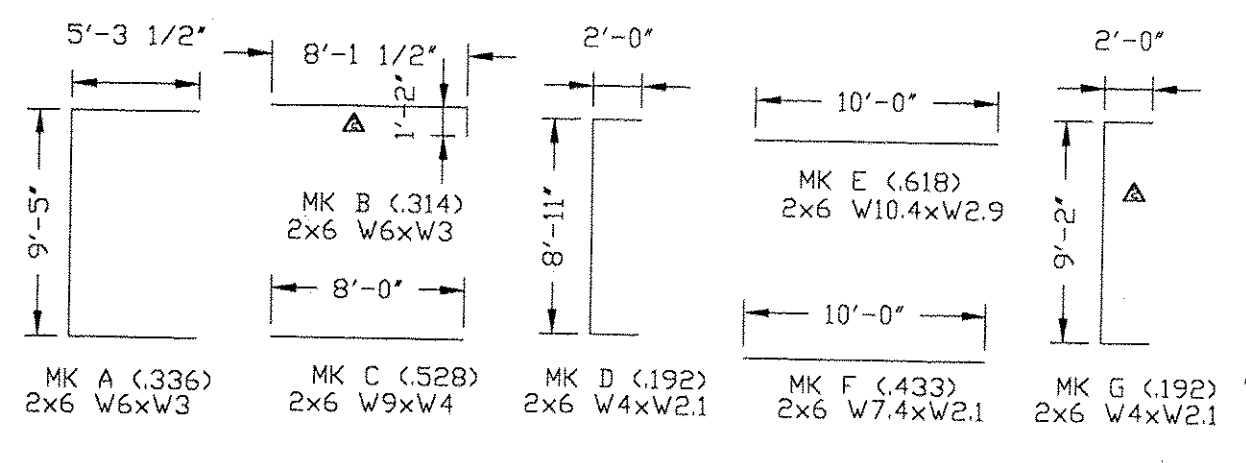
ELEVATION B-B  
SCALE 1/4" = 1'-0"



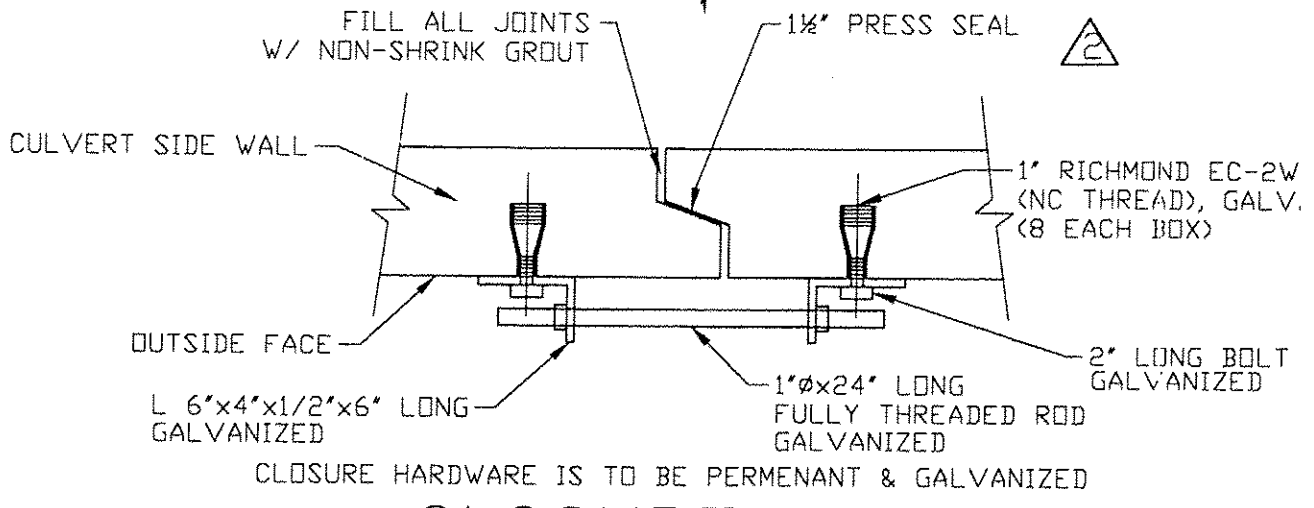
ELEVATION A-A  
SCALE 1/4" = 1'-0"



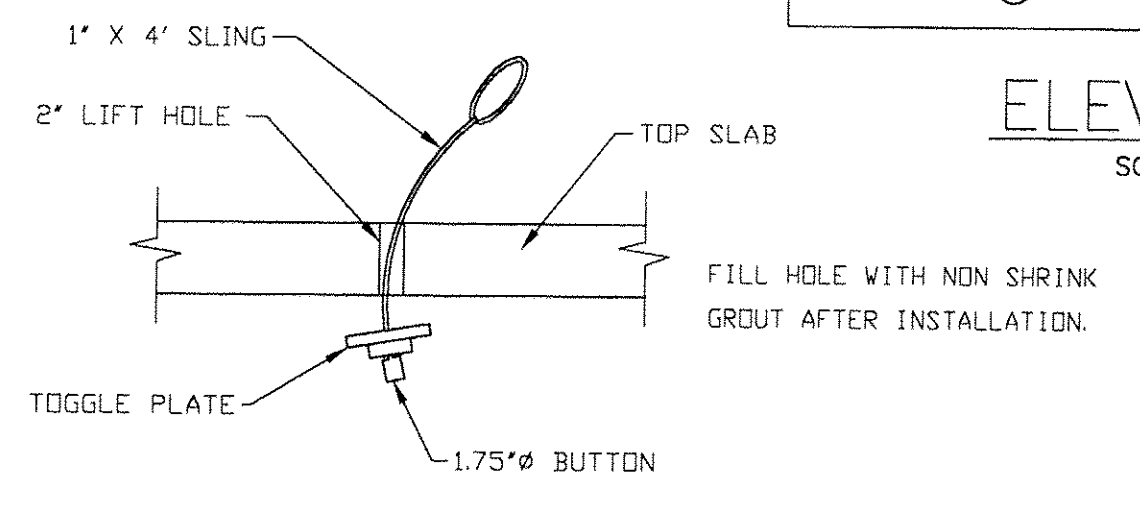
DETAIL 3  
SCALE 1" = 1'-0"



BENDING SCHEDULE  
SCALE 1/8" = 1'-0"



CLOSURE DETAIL  
SCALE 1" = 1'-0"



LIFTING DETAIL  
NO SCALE

STATE AGENCY: VERMONT AOT

CONCRETE SYSTEMS, INC.  
Commercial Ave, Hudson, NH, 03051

J. A. McDONALD, INC.  
STORMWATER DETENTION CISTERN  
BURLINGTON, VT

STORMWATER DETENTION LAYOUT

Drawn by: E. HAUSER  
Checked by: CV  
Approved by: CV

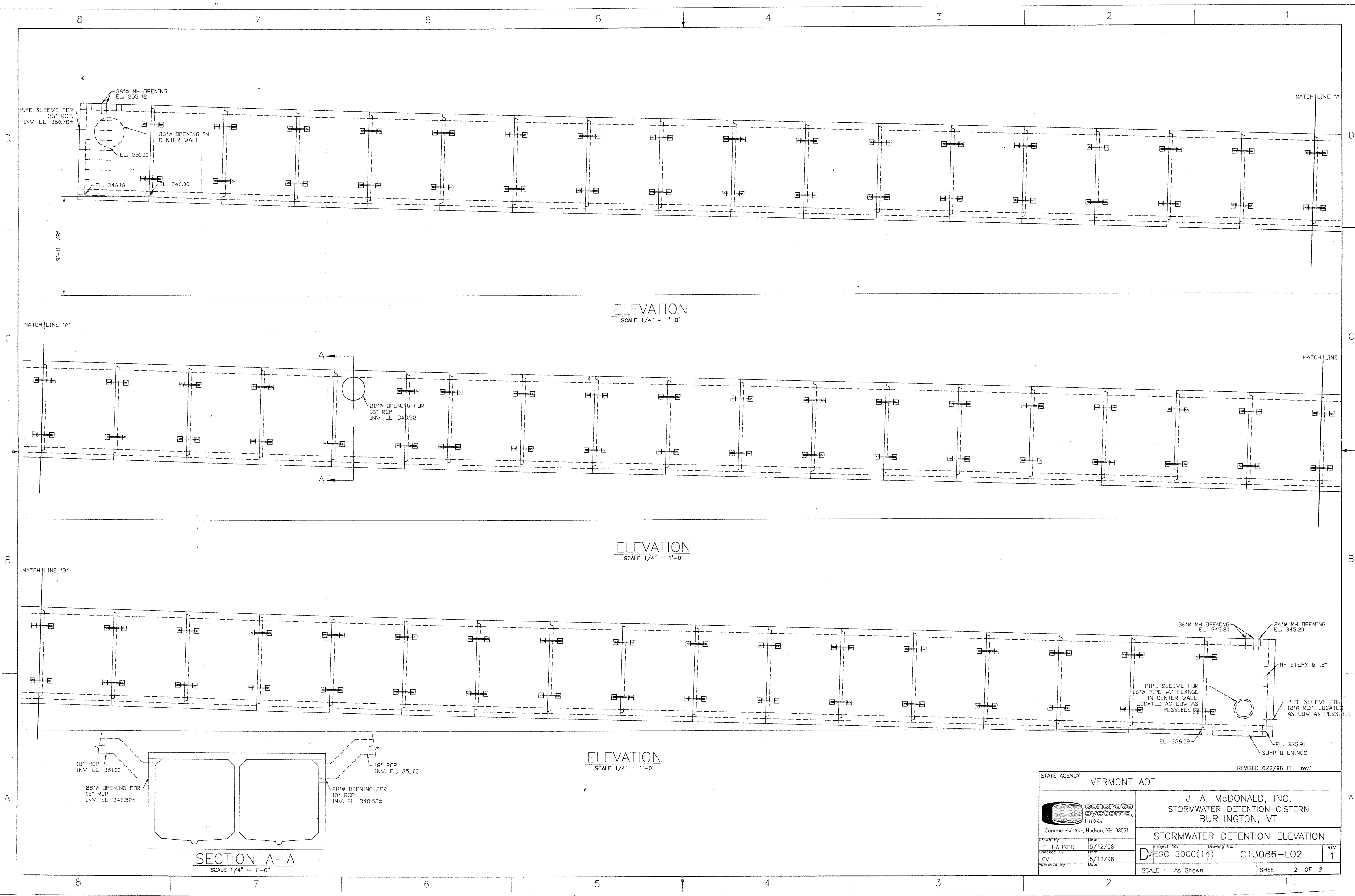
Date: 4/29/98  
Date: 6/8/98

Project No.: D MEGC 5000(14)  
Drawing No.: C13086-LO1

REV 2

SCALE: As Shown  
SHEET 1 OF 2

REVISED 6/1/98 EH rev2  
REVISED 5/12/98 EH



STATE AGENCY		VERMONT AOT	
		J. A. McDONALD, INC. STORMWATER DETENTION CISTERN BURLINGTON, VT	
Commercial Ave. Hudson, NH 03051		STORMWATER DETENTION ELEVATION	
DRAWN BY E. HALUSER 5/12/98	CHECKED BY CV 5/12/98	PROJECT NO. D EGC 5000(14)	DRAWING NO. C13086-LO2 REV 1
SCALE : As Shown		SHEET 2 OF 2	