

LEGEND

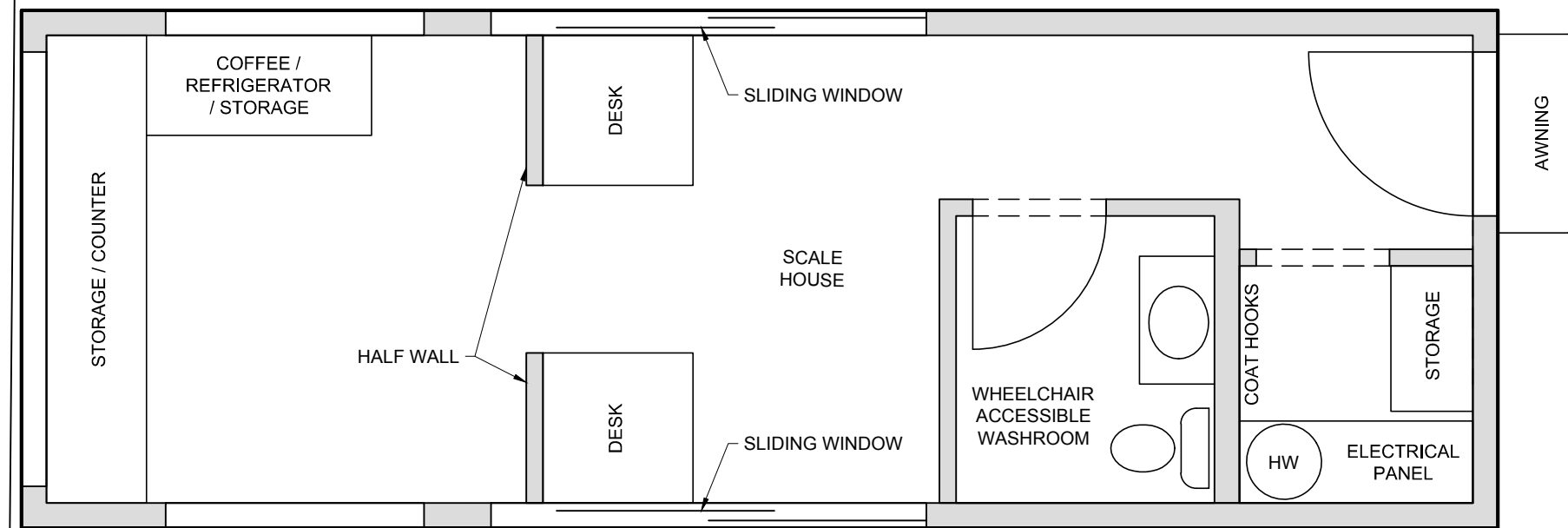
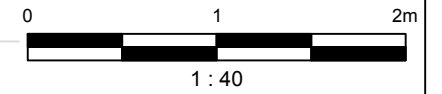
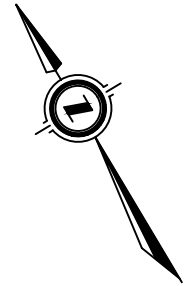
	PROPERTY BOUNDARY		EXISTING STORM PIPE
	EXISTING FENCE		EXISTING SANITARY PIPE
	EXISTING CONTOURS		EXISTING WATER MAIN
	EXISTING OVERHEAD ELECTRICITY		EXISTING SURVEY POINT LOCATION
	EXISTING UNDERGROUND ELECTRICITY		EXISTING SURVEY POINT I.D.
	EXISTING UNDERGROUND COMMUNICATIONS		EXISTING SURVEY POINT ELEVATION
	EXISTING ASPHALT ROAD		
	EXISTING BUILDING		
	PROPOSED BUILDING		

EXISTING CONDITIONS		
SCALE AND SCALE HOUSE REPLACEMENT NANAIMO REGIONAL LANDFILL THE REGIONAL DISTRICT OF NANAIMO		
DATE	JOB NO.	FIGURE NO.
MAY 2017	4-2200-01-97	1

(file: R422000197001FIG01.dwg)

CONC.
PAD

SCALE



SCALE

CONC.
PAD

NOTE:
SERVICE WINDOWS TO BE CONSISTENT IN SIZE AND
LOCATION BETWEEN CURRENT SCALE HOUSE AND
NEW SCALE HOUSE.

EXAMPLE LAYOUT
FOR SCALE HOUSE

SCALE AND SCALE HOUSE REPLACEMENT
NANAIMO REGIONAL LANDFILL
THE REGIONAL DISTRICT OF NANAIMO



DATE	JOB NO.	FIGURE NO.
MAY 2017	4-2200-01-97	2

(file: R422000197001FIG01.dwg)

REINFORCING STEEL SCHEDULE (A.S.T.M. A-615 GRADE 60)

SYM	QTY	SIZE	LOCATION, DIRECTION	DIMENSIONS		WGT
				A	B	
COMMON TO BOTH 2' & 4'						
ST1	18	#4	FLOOR, LONG.	37'-0"		445
ST2	49	#4	FLOOR, LATERAL	12'-8"		415
ST3	42	#4	FOOTERS, LONG.	5'-0"		140
ST4	35	#5	FOOTERS, LATERAL	12'-8"		463
ST5	20	#5	APPROACH, LATERAL	10'-8"		223
ST6	22	#5	APPROACH, LONG.	9'-6"		217
L1	22	#5	APPROACH TO END TIES	2'-6"	2'-6"	115

2' ONLY						
ST7	8	#4	SIDE WALLS, LONG.	36'-8"		196
T1	30	#5	(SEE DETAIL ITEM T1)	7'-4"		229
L2	170	#4	WALL TO FLOOR TIES	2'-6"	3'-0"	624
L3	40	#5	(SEE DETAIL ITEM T1)	1'-0"	2'-0"	125
L4	8	#4	(CORNERS)	2'-0"	6'-10"	47

4' ONLY						
ST7	16	#4	SIDE WALLS, LONG.	36'-8"		392
T1	50	#5	(SEE DETAIL ITEM T1)	7'-4"		382
L2	170	#4	WALL TO FLOOR TIES	2'-6"	5'-0"	851
L3	40	#5	(SEE DETAIL ITEM T1)	1'-0"	4'-0"	209
L4	16	#4	(CORNERS)	2'-0"	6'-10"	94

THIS DRAWING CONTAINS INFORMATION TO BUILD EITHER A 2' OR 4' NOMINAL CLEARANCE PIT FOUNDATION. CONTRACTOR MUST KNOW DESIRED DEPTH BEFORE ORDERING MATERIALS.

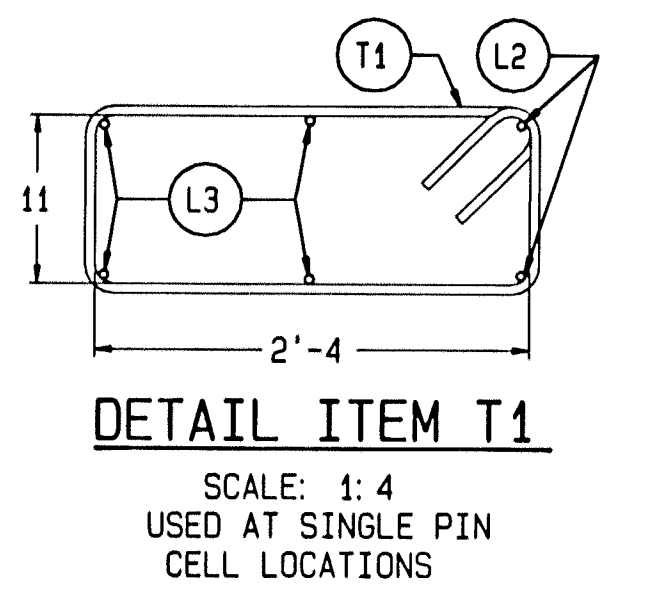
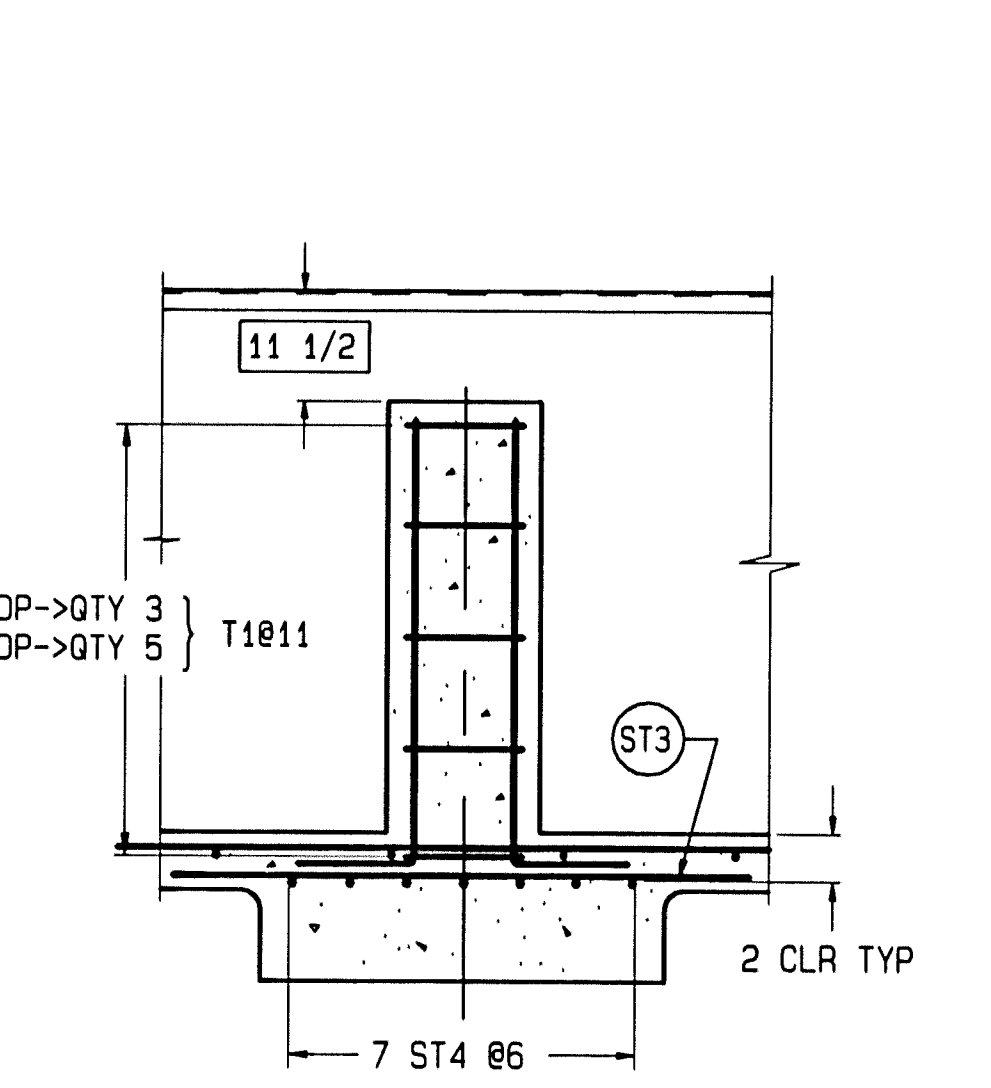
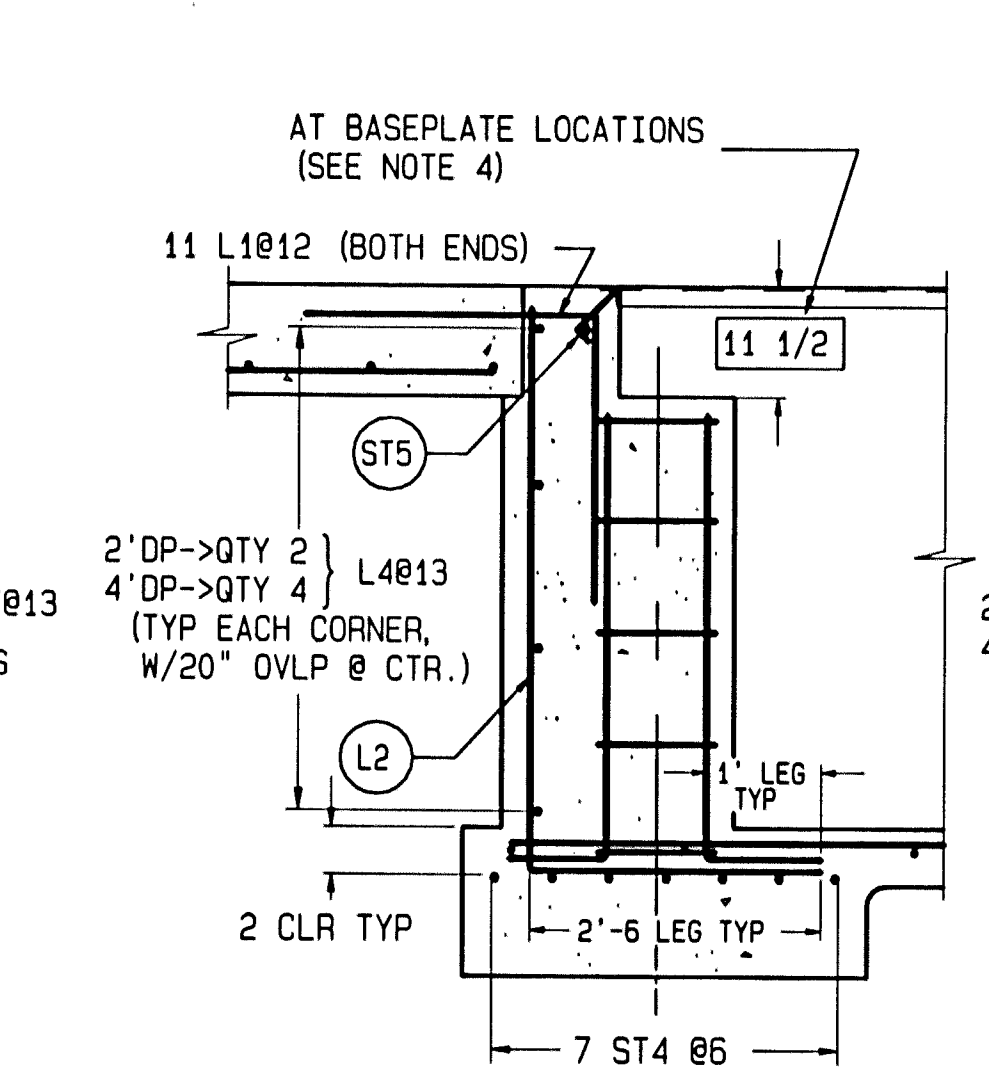
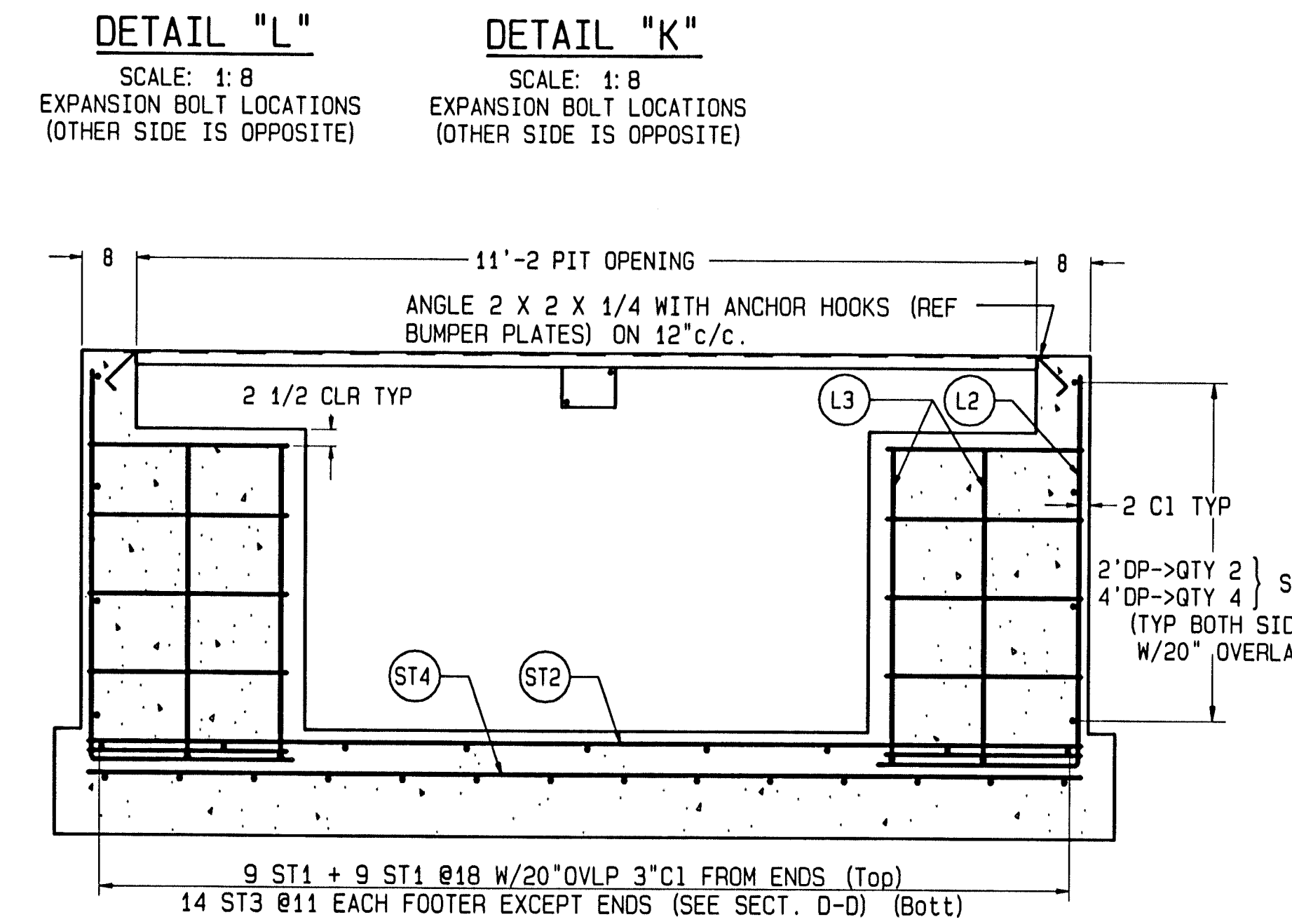
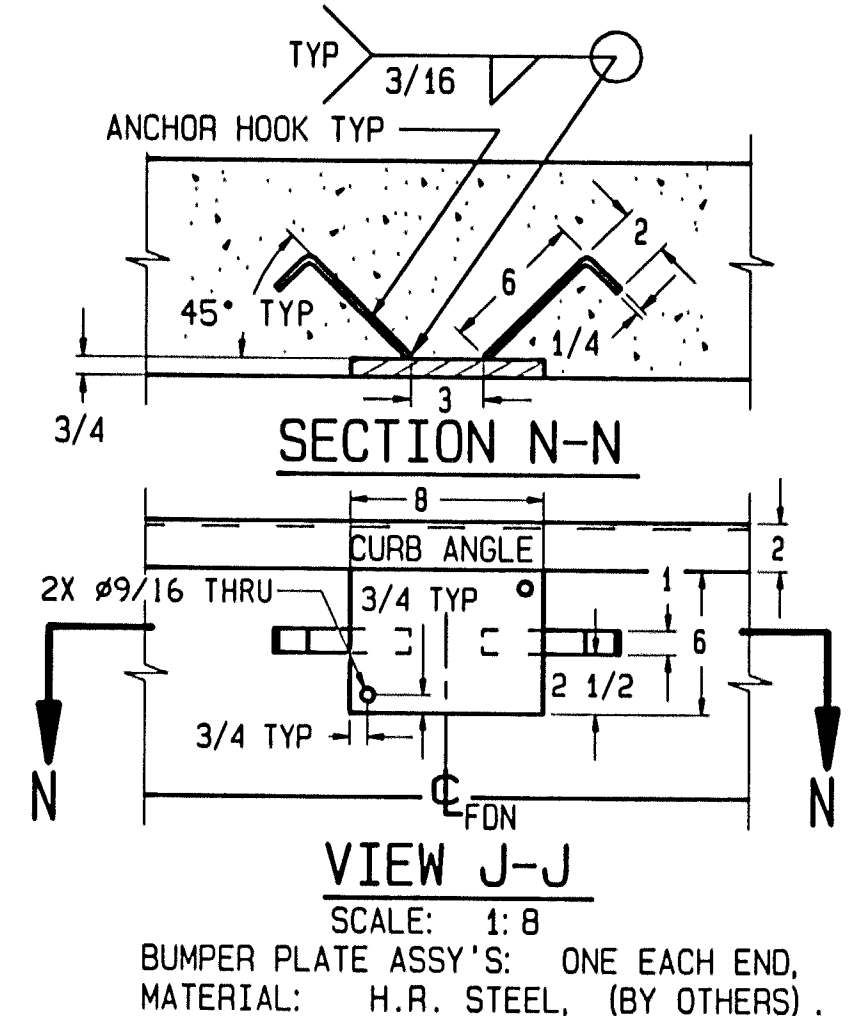
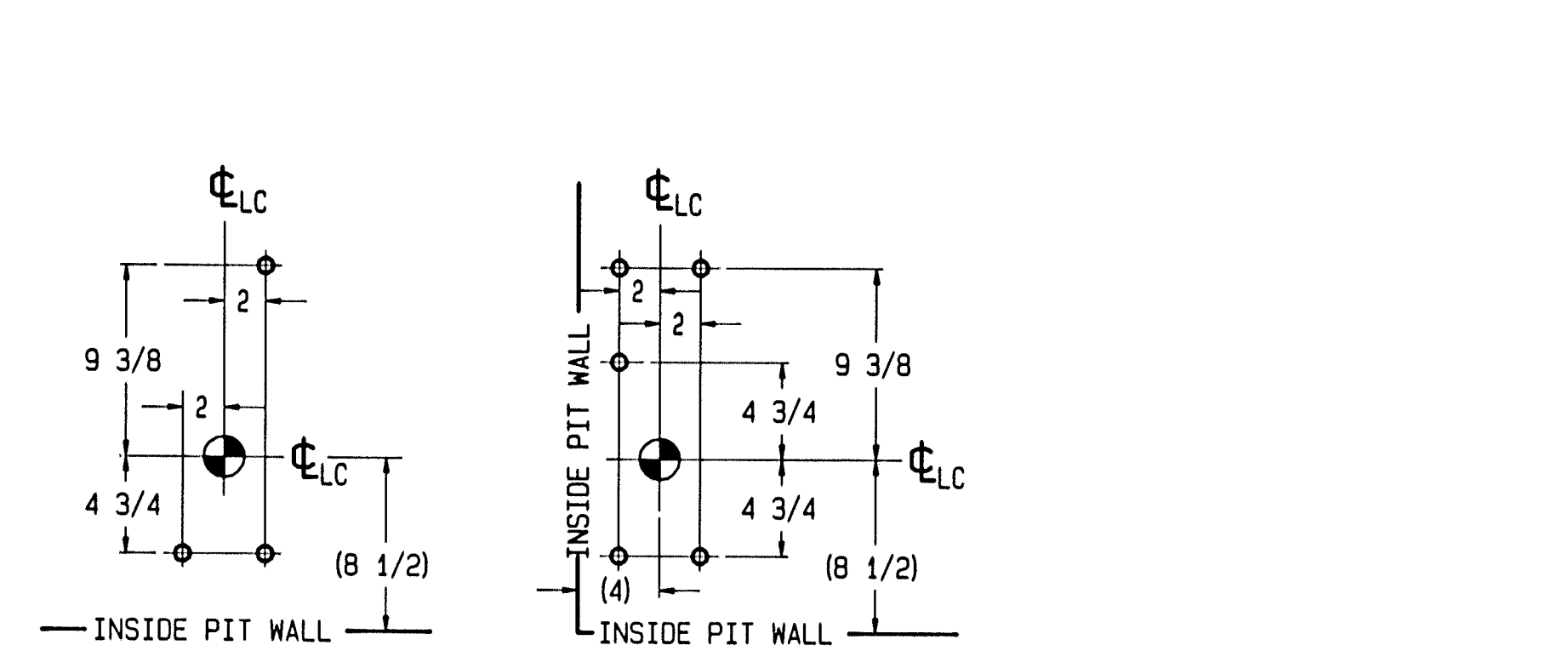
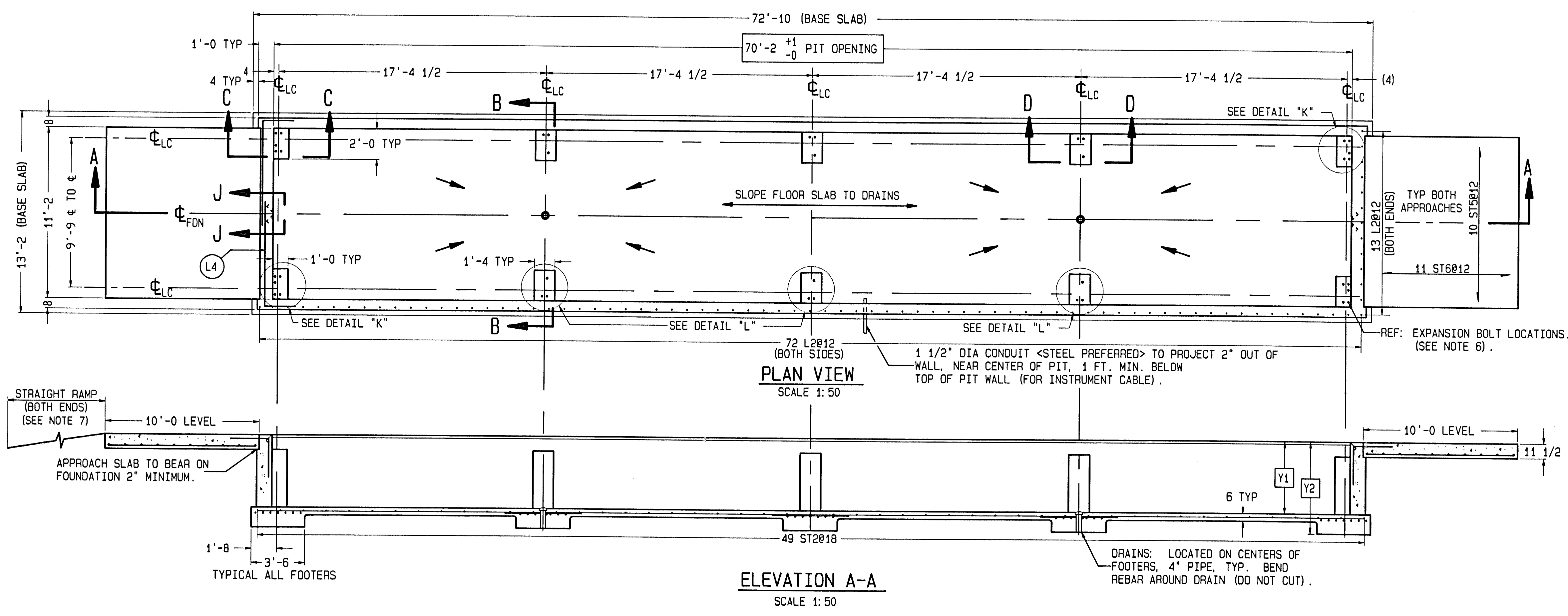
MATERIAL SUMMARY * & "Y" DIMENSION CHART

NOMINAL CLEARANCE BETWEEN FLOOR AND SCALE	2'	4'
CONCRETE (CU. YDS.)	46	56
REINFORCING STEEL	3262	3969
Y1 (ELEVATION A-A)	2'-8 1/2"	4'-8 1/2"
Y2 MINIMUM (ELEVATION A-A)	4'-0"	6'-0"

* QUANTITIES GIVEN ARE FOR FOUNDATION ONLY. IF CONCRETE PLATFORMS ARE USED, REFER TO GENERAL LAYOUT DRAWING FOR DECK CONCRETE AND REINFORCING STEEL QUANTITIES & SPECS.

NOTES:

- USE MINIMUM 3000 PSI STRENGTH CONCRETE AT 28 DAYS WITH 5-7% AIR ENTRAINMENT.
- USE MINIMUM 60KSI YIELD DEFORMED REINFORCING STEEL.
- FOUNDATION REQUIRES 2000 PSF RATED SOIL.
- TOP OF CONCRETE AT BASEPLATE LOCATIONS TO BE LEVEL AND IN ONE PLANE ±1/8"
- DIAGONAL MEASUREMENTS ENDWALL TO ENDWALL MUST BE EQUAL WITHIN 1/2"
- BASEPLATE ANCHORS TO BE 3/4" DIA. EXPANSION BOLTS X 6" LG. SUPPLIED BY TOLEDO. USE BASEPLATES AS TEMPLATES TO LOCATE EXPANSION BOLTS DURING SCALE INSTALLATION.
- RAMP LENGTH: -PER LOCAL REGULATIONS
-1/2" SLOPE PER FOOT TYPICAL
- BOTTOM OF FOOTERS MUST BE BELOW LOCAL FROSTLINE. IF LOCAL FROSTLINE IS UNKNOWN, REFER TO DRAWING TA201033 (U.S. WEATHER BUREAU FROST PENETRATION AVERAGES).
- CONTRACTOR SUPPLIES:
 - EXCAVATION
 - REINFORCING STEEL
 - CURB ANGLE ASSEMBLIES (SECT B-B)
 - CONCRETE AND FORMS
 - 1 1/2" DIA CONDUIT
 - BUMPER PLATE ASSEMBLIES (VIEWS J-J & N-N)



SECTION B-B

SCALE 1:20

SECTION C-C

SCALE 1:20 (TYPICAL END FOOTER)

SECTION D-D

SCALE 1:20 (TYPICAL MIDDLE FOOTER) (SINGLE BASEPLATE)

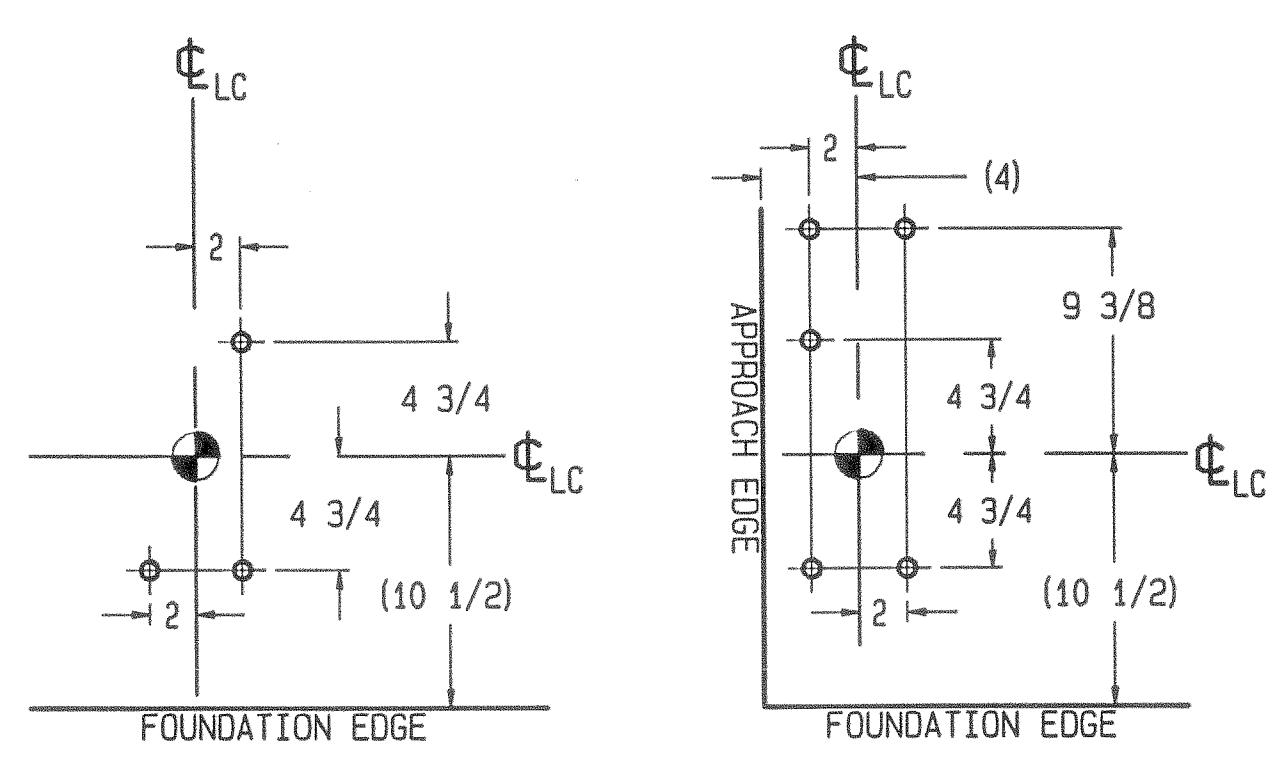
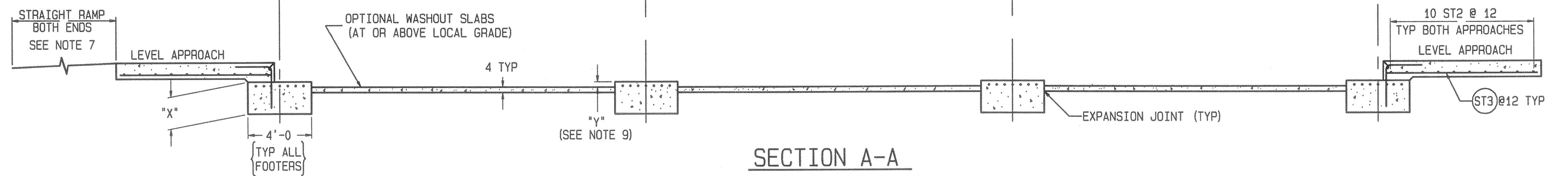
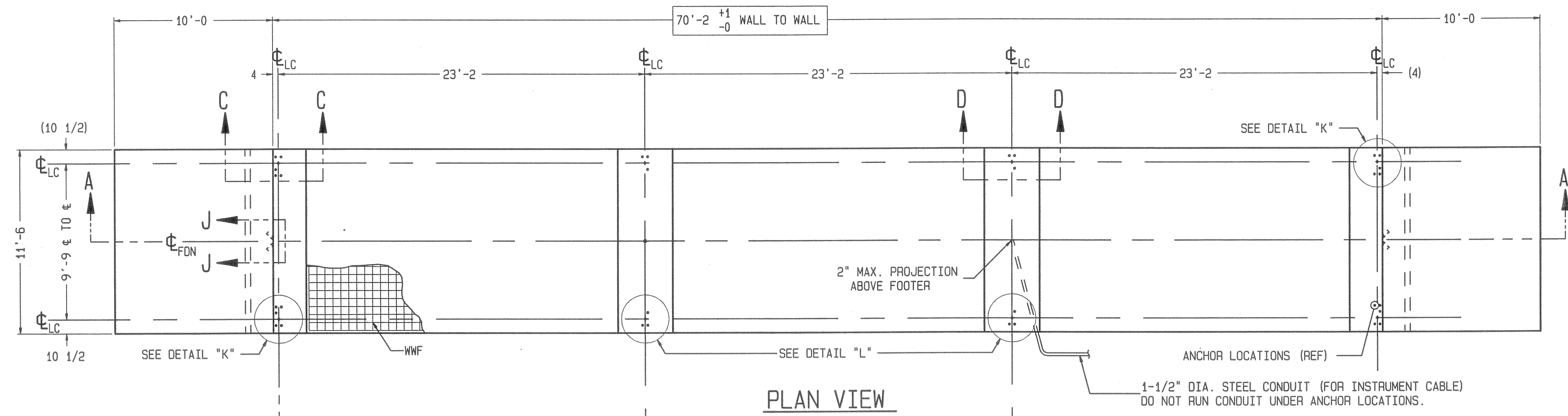
REV	CHANGE	BY	DATE	SCALE NOTED
A	REVISED REBAR SCHEDULE, INCREASED BASE SLAB	ALS	7-17-91	DATE 3/5/91
B	CORRECT SECTION B-B: REVISED REBAR SCHEDULE	RWR	10/28/91	DRN RMR APPD
C	ADDED 6" TO FOOTER AND CLR FOR FOOTER REBAR	TDA	4/28/93	
D	REMOVED NOTE #10 FROM NOTES	DGR	8/19/96	

METTLER TOLEDO

TITLE 7560A/B FOUNDATION: PIT (2' OR 4' DP) 70x11

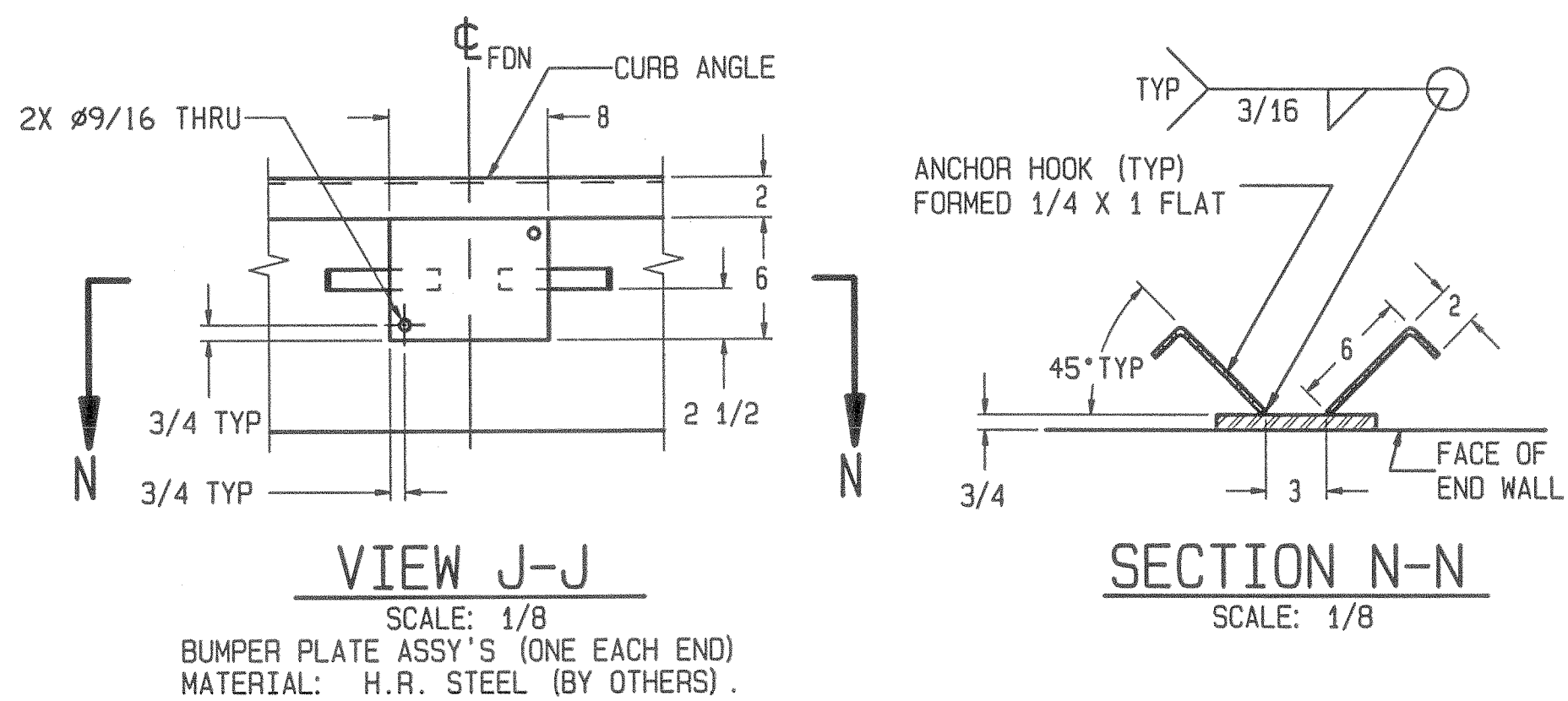
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, AND DIMENSIONAL TOLERANCES ARE:
 FRACTIONAL .XX ±.02
 DECIMAL .XXX ±.005
 ANGULAR .5°

TC201567 REV 0



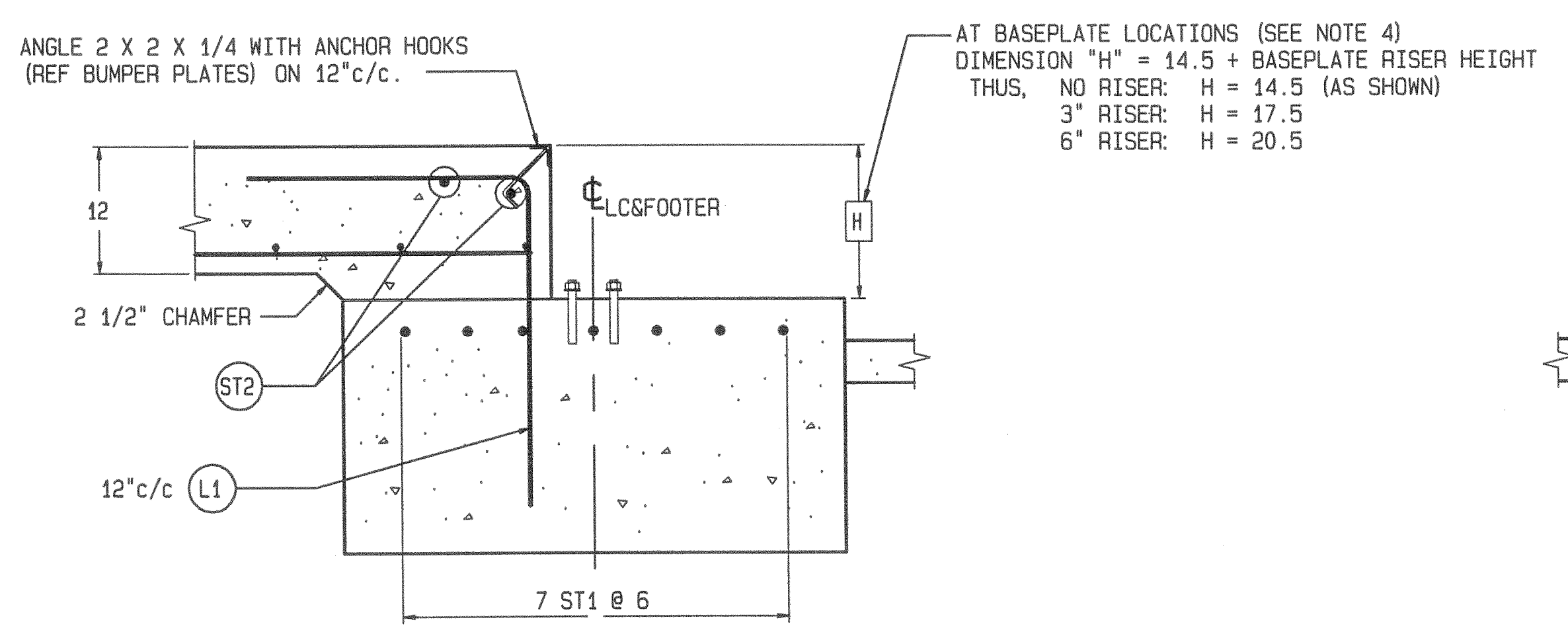
DETAIL "L"
ANCHOR LOCATIONS
(OTHER SIDE IS OPPOSITE)

DETAIL "K"
ANCHOR LOCATIONS
(OTHER SIDE IS OPPOSITE)

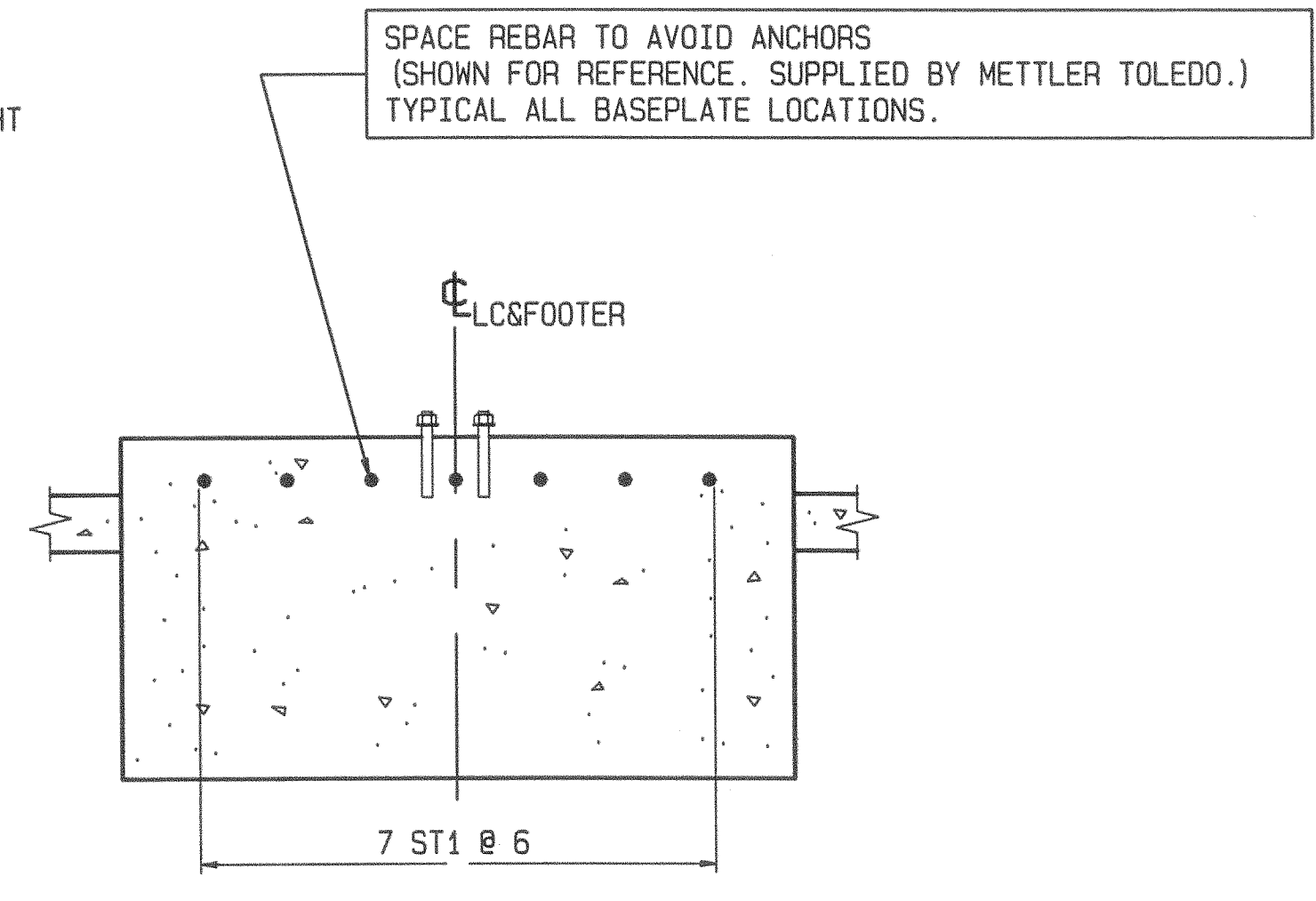


VIEW J-J
SCALE: 1/8
BUMPER PLATE ASSY'S (ONE EACH END)
MATERIAL: H.R. STEEL (BY OTHERS).

SECTION N-N
SCALE: 1/8



SECTION C-C
SCALE 1/12
(TYPICAL END WALL)



SECTION D-D
SCALE 1/12
(TYPICAL FOOTER)
SINGLE BASEPLATE

REINFORCING STEEL SCHEDULE (A.S.T.M. A-615 GRADE 60)						
COLD FORM BARS TO INSIDE DIMENSIONS			A			
SYM	QTY	SIZE	LOCATION, DIRECTION	A	B	WGT
ST1	28	#6	FOOTERS, LATERAL	11'-0"		463
ST2	4	#5	ENDS, LATERAL	11'-0"		46
	20		APPROACHES, LATERAL			229
ST3	24	#5	APPROACHES, LONG.	9'-6"		238
L1	24	#5	APPROACH TO END TIES	2'-3"	2'-7"	121

L1 IS GIVEN WITHOUT RISER BASEPLATES. DIMENSION "B" AND WEIGHT WILL VARY WITH THE HEIGHT OF RISERS USED, AS FOLLOWS:

L1-B	WGT
NO RISERS	2'-7" 121
3" RISERS	2'-10" 128
6" RISERS	3'-1" 135

MATERIAL SUMMARY * (INCLUDES FOOTERS & APPROACHES) (DOES NOT INCLUDE SCALE DECK)	FOOTER DEPTH: "X" INCHES (24 INCH MINIMUM)				
	24	36	48	60	72
CONCRETE (CU. YOS.)	22.5	29.5	36	43	50
REINFORCING STEEL (LBS)	1097				

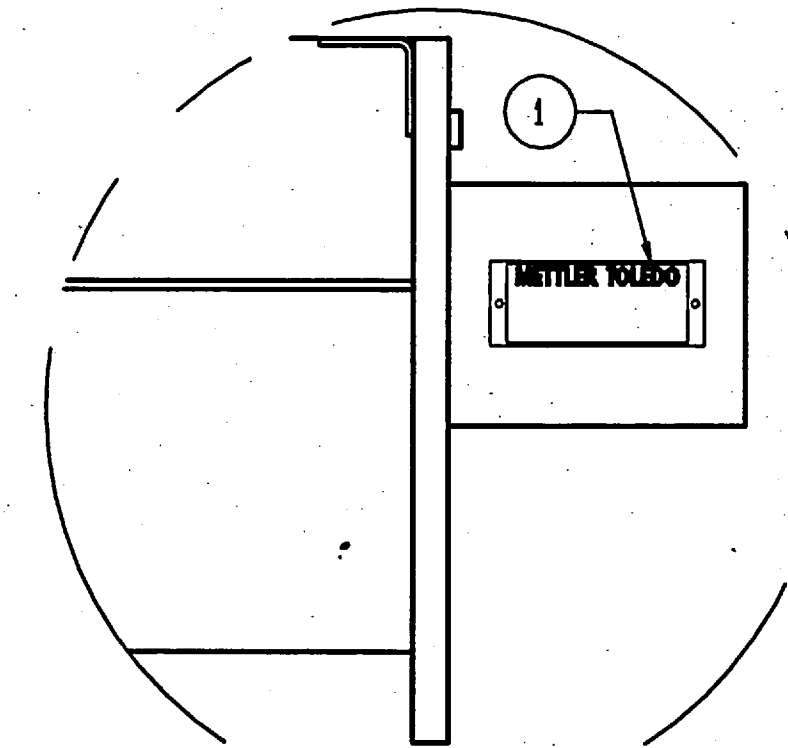
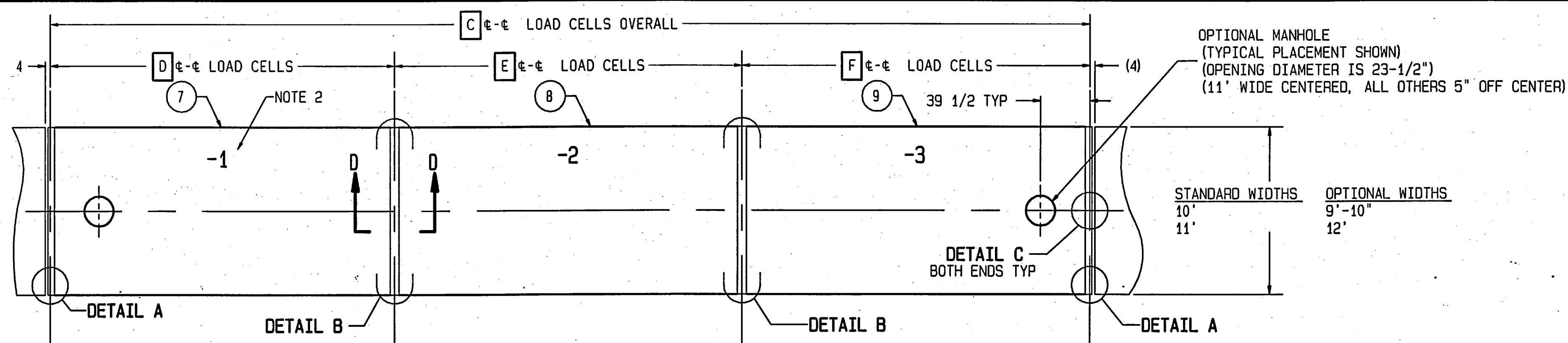
* IF OPTIONAL WASHOUT SLABS ARE USED, ADD:
675 SQ. FT. OF WWF: 6x6_W1.4xW1.4
8.5 CU. YD. OF CONCRETE.

NOTES:

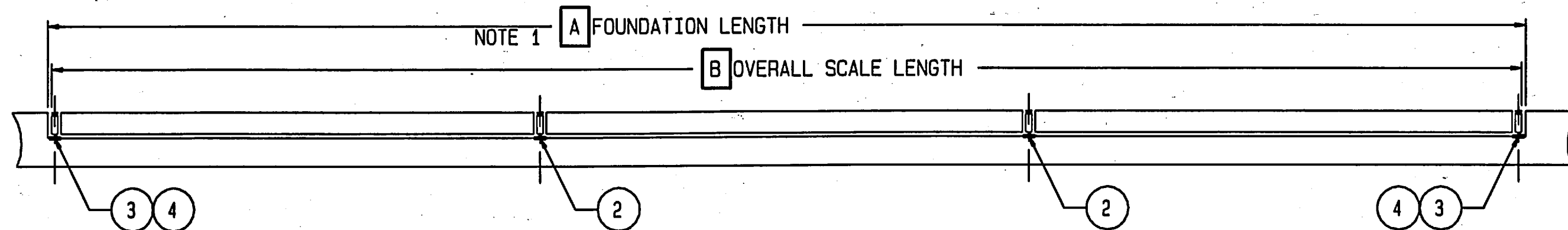
- FOUNDATION REQUIRES MINIMUM 3000 PSI STRENGTH CONCRETE AT 28 DAYS WITH 5-7% AIR ENTRAINMENT. SPECIFICATIONS FOR SCALE DECK CONCRETE IS FOUND ON CORRESPONDING GENERAL LAYOUT DRAWING.
- USE MINIMUM 60KSI YIELD DEFORMED REINFORCING STEEL. REBAR MINIMUM DEPTH OF COVER SHOULD BE IN ACCORDANCE WITH THE LATEST ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-SECTION 7.7) UNLESS OTHERWISE SPECIFIED.
- FOUNDATION REQUIRES 2500 PSF RATED SOIL FOR HIGHWAY TRUCK APPLICATIONS.
- TOP OF CONCRETE AT BASEPLATE LOCATIONS TO BE LEVEL AND IN ONE PLANE ±1/8"
- DIAGONAL MEASUREMENTS ENDWALL TO ENDWALL MUST BE EQUAL WITHIN 1/2".
- BASEPLATE ANCHORS TO BE SUPPLIED BY METTLER-TOLEDO. USE BASEPLATES AS TEMPLATES TO LOCATE ANCHORS DURING SCALE INSTALLATION.
- RAMP LENGTH: -PER LOCAL REGULATIONS
-1/2" SLOPE PER FOOT TYPICAL
- BOTTOM OF FOOTER MUST BE BELOW LOCAL FROSTLINE.
- FOOTER HEIGHT "Y" CAN BE VARIED TO SUIT LOCAL CLEARANCE REQUIREMENTS. TOP OF FOOTER AT GRADE LEVEL, I.E. FLUSH WITH WASHOUT SLABS. PROVIDES STANDARD 4" CLEARANCE BETWEEN BOTTOM OF WEIGHBRIDGE AND WASHOUT SLABS.
- OPTIONAL: 6" OF GRAVEL MAY BE USED UNDER APPROACHES TO IMPROVE DRAINAGE.
- CONTRACTOR SUPPLIES:
 - EXCAVATION
 - REINFORCING STEEL
 - CURB ANGLE ASSEMBLIES (SECT C-C)
 - CONCRETE AND FORMS
 - 1 1/2" DIA CONDUIT
 - BUMPER PLATE ASSEMBLIES (VIEWS J-J & N-N)

DRAWING IS TO SCALE ONLY WHEN BORDER MEASURES 22-7/8" X 35" (FULL SIZE)

REV	CHANGE	BY	DATE	SCALE	.02
A	ADDED RISER OPTION	ADF	09/10/09	DATE	06/08/09
				DRN MT	APPO
TITLE VTC221, FDN, VARIABLE FOOTER, 70' X 11' (3-MOD) W/ RISER OPTION					
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, AND DIMENSIONAL TOLERANCES ARE:					
FRACTIONAL DECIMAL ANGULAR					
±1/16 .XX ±.02 .XXX ±.005					
THIS PRINT IS FURNISHED WITH THE UNDERSTANDING THAT THE ESSENCE THEREOF WILL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN AUTHORIZATION OF METTLER-TOLEDO, INC. ALL DESIGNS ARE THE PROPERTY OF METTLER-TOLEDO, INC. AND WILL BE PROTECTED BY PATENTS.					REV
TC207693					A



SECTION D-D
 BY METTLER TOLEDO: DRILL TWO #29 HOLES IN SUPPORT TUBE AND FASTEN DATA PLATE WITH 1/8" ALUMINUM AB4-4 POP RIVETS (MZ0904000031).



SIZE & CONFIGURATION				DIMENSIONAL CHART					
SCALE SIZE	FIRST	MIDDLE	TERMINAL	MINIMUM FOUNDATION OPENING ("A")	DECK LENGTH "B"	TOTAL L/C "C"	"D"	"E"	"F"
60'	20'	20'	20'	60'-3 1/2"	60'-1 1/2"	59'-7 1/2"	19'-10 1/2"	19'-10 1/2"	19'-10 1/2"
70'	23.3'	23.3'	23.3'	70'-2"	70'-0"	69'-6"	23'-2"	23'-2"	23'-2"

NOTES:

- FOUNDATION LENGTH DIMENSION SHOWN IS NOMINAL, ACTUAL TOLERANCE IS -0 +1".
- MODULE SUFFIX IS USED TO DESIGNATE MODULE ASSEMBLY AND HARDWARE CONFIGURATION.
- APPLY LOCTITE #242 TO ALL GAP COVER BOLTS.
- IF NO DIELECTRIC COMPOUND IS PRESENT, APPLY A 1/4" BEAD OF DIELECTRIC COMPOUND IN THE MALE CONNECTOR OF LOAD CELL BEFORE FINAL CONNECTION.
- IF DIELECTRIC COMPOUND BECOMES CONTAMINATED, CLEAN CONNECTOR WITH TB202627 CONNECTOR CLEANER. REAPPLY NEW COMPOUND TO THE CONNECTOR.
- COUPLER LONGITUDINAL SHIMS MAY BE USED TO CORRECT MISALIGNMENT. A SINGLE 1/8" SHIM SHOULD BE USED AT EACH COUPLER IN THE STANDARD CONFIGURATION.
- COUPLER VERTICAL SHIMS MAY BE USED IF NECESSARY TO LEVEL MODULES.

CONCRETE NOTES:

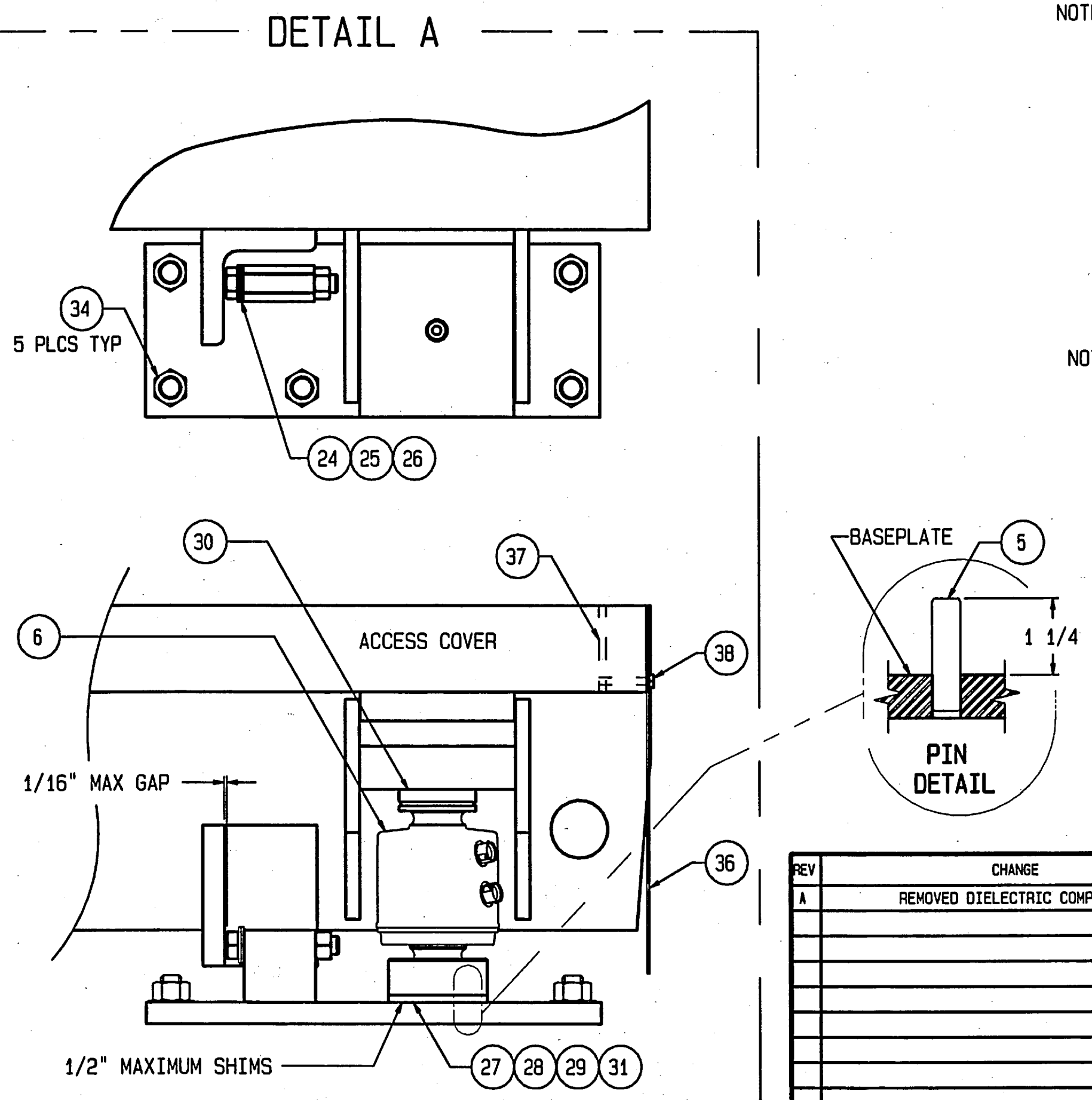
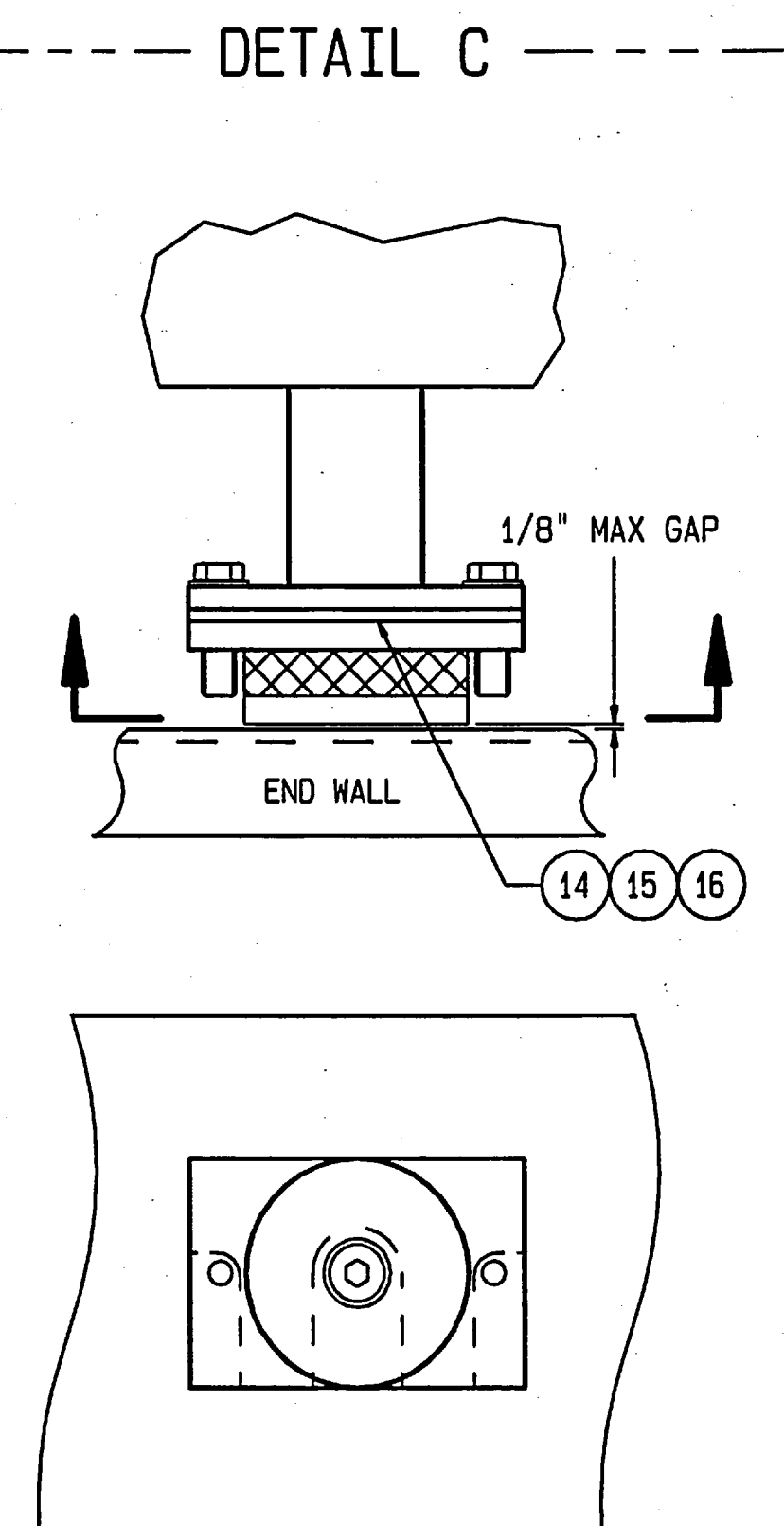
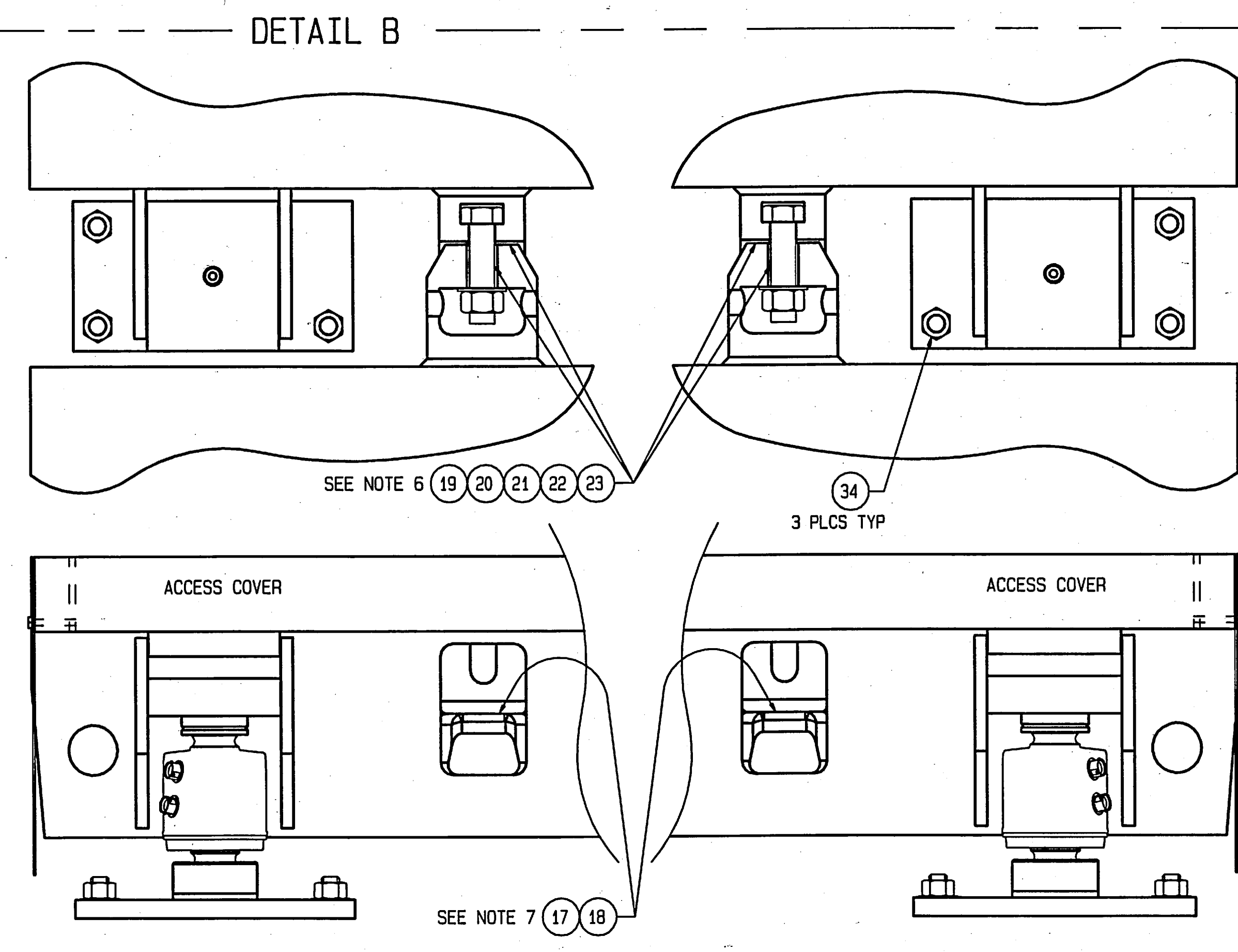
- USE 4000 PSI CONCRETE AT 28 DAY AGE. AIR ENTRAINMENT SHALL BE 5%-7%. MAXIMUM AGGREGATE SIZE IS 3/4". MAXIMUM SLUMP AS PLACED SHALL BE 4". THE REQUIRED FIBER REINFORCEMENT WILL BE PROVIDED BY METTLER TOLEDO AND SHALL BE ADDED TO THE CONCRETE MIX AT THE RATE OF ONE BAG PER CUBIC YARD.
- BEFORE PLACING CONCRETE, ALL MODULES LONGER THAN 20' MUST BE SHORED, WITH THE MINIMAL REQUIREMENT BEING FULL SUPPORT ACROSS THE WIDTH OF EACH MODULE WHERE THE SHORING IS LOCATED AT THE CENTER OF EACH MODULE (LENGTHWISE).
- CONCRETE SHALL BE DIRECT CHUTE PLACED AND THOROUGHLY CONSOLIDATED USING A SPUD TYPE VIBRATOR.
- USE OF CALCIUM CHLORIDE ADMIXTURE IS NOT PERMITTED.
- AFTER FINISHING, A STYRENE BUTADIENE TYPE (30% SOLIDS MIN) CURING COMPOUND SHALL BE APPLIED.
- REFER TO DRAWING TN206090 FOR CONCRETE SPECIFICATION.
- ESTIMATED CONCRETE PER MODULE IN CUBIC YARDS (REF ONLY):
 15' X 11' = 3.8 17'6" X 11' = 4.5 20' X 11' = 5.2 23' X 11' = 6.1

IMPORTANT:

THE INTERIOR SURFACE OF ALL LOAD CELL RECEIVERS (BOTH TOP AND BOTTOM) MUST BE GREASED WITH TN203217 DURING CELL INSTALLATION.

40	12	MZ0909000043	CAPLUG, #16, FOR SIDE LIFTING HOLES
39	6	MZ0909000031	CAPLUG, #19, FOR ENDPLATE HOLES
38	16	MZ0901010609 MZ0901010065	HHCS, 1/4-20 x 1 3/4", SS (IN -1 KOP) HHCS, 1/4-20 x 3/4", SS (IN -3 KOP)
37	8	TN202152	SIDE COVER CLAMP PLATE
36	8	TA202172	SIDE COVER
35	2	TN203217	LUBRICANT, LOADCELL-RECEIVER
34	32	TN203216	ANCHOR BOLT
33	1	TB202627	CONNECTOR CLEANER
32	1	MZ0602000117	LOCTITE #242 THREADLOCKER
31	8	TA207197	BOTTOM HEX RECEIVER
30	8	TA207633	TOP RECEIVER WITH O-RING
29	8	TA207315-3	LOWER RECEIVER SHIM, 16 GA (.062)
28	8	TA207315-2	LOWER RECEIVER SHIM, 11 GA (.125)
27	8	TA207315-1	LOWER RECEIVER SHIM, 1/4"
26	12	MZ0901030062	WASHER, 5/8, ASTM F436
25	4	MZ0901020066	NUT, 5/8-11, HEX, GR8, ZN
24	4	MZ0901010462	SCR, 5/8-11 X 3.5, HHCS, GR5, ZN
23	4	MZ0901030154	WASHER, 1" DIA, GALV
22	4	MZ0901020047	NUT, 1-8, HEX, GR-5, ZN
21	4	MA0901010663	SCR, 1-8 X 4, HEAVY HEX
20	4	TN207607-2	COUPLER SHIM, LONG., 16 GA (.062)
19	4	TN207607-1	COUPLER SHIM, LONG., 11 GA (.125)
18	2	TN207606-2	COUPLER SHIM, VERTICAL, 16 GA (.062)
17	2	TN207606-1	COUPLER SHIM, VERTICAL, 11 GA (.125)
16	2	TA200856-3	END BUMPER SHIM 16 GA (.062)
15	2	TA200856-2	END BUMPER SHIM 11 GA (.125)
14	3	TA200856-1	END BUMPER SHIM 1/4"

ITEM	QTY	PART NUMBER	DESCRIPTION
HARDWARE KIT OF PARTS: TC207803-1			



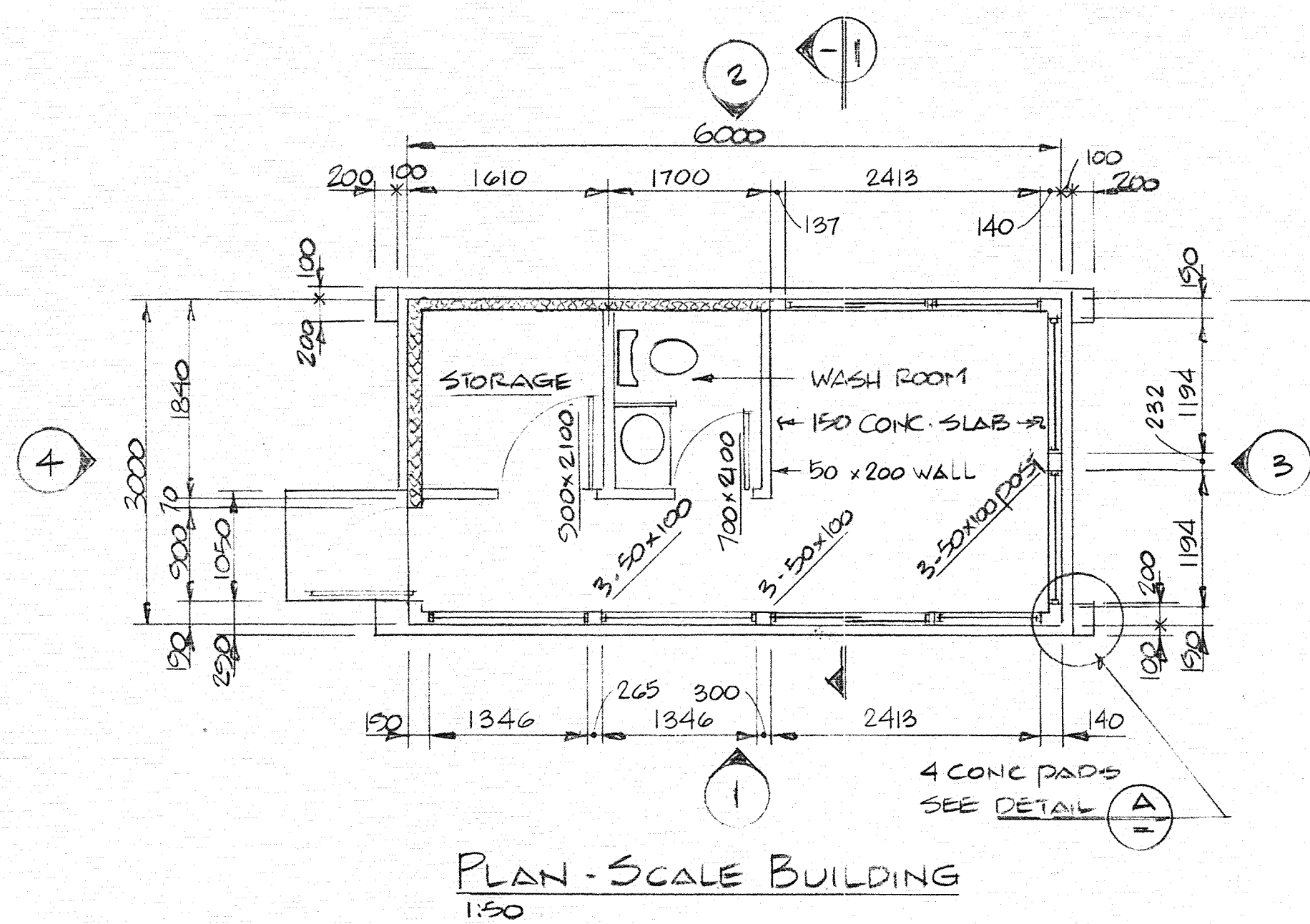
NOTE C1.

--	**	TN206082	FIBER REINFORCEMENT, 1.5# BAG
--	1	**	WIRING KIT OF PARTS
--	1	TC207803-1 TC207803-3	STANDARD HARDWARE KIT OF PARTS HARDWARE KOP FOR 9'-10 WIDE SCALES
--	1	TN207502	TOUCH-UP PAINT KIT

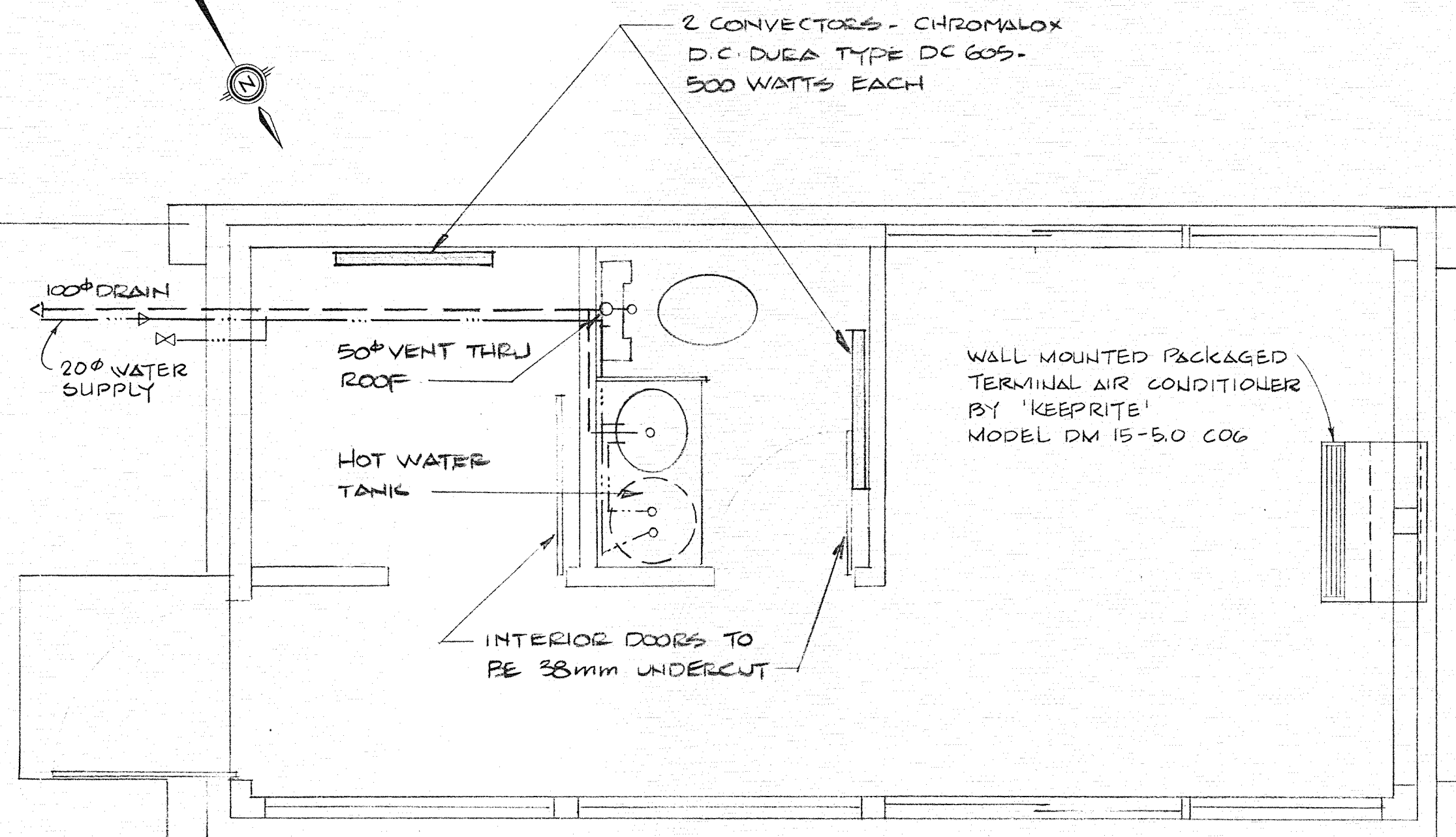
NOTE 2.

9	1	REF 3 SUFFIX	STANDARD TERMINAL MODULE ASSEMBLY
8	1	REF 2 SUFFIX	STANDARD MIDDLE MODULE ASSEMBLY
7	1	REF 1 SUFFIX	STANDARD FIRST MODULE ASSEMBLY
6	8	42904891	LOAD CELL, PDX, 50mt CAPACITY
5	24	TN207198	LOWER RECEIVER MOUNTING PIN
4	2	TB207261-4	BASEPLATE, RIGHT BUMPER
3	2	TB207261-3	BASEPLATE, LEFT BUMPER
2	4	TA207608	BASEPLATE, NO BUMPER
1	1	MN31004	DATA PLATE

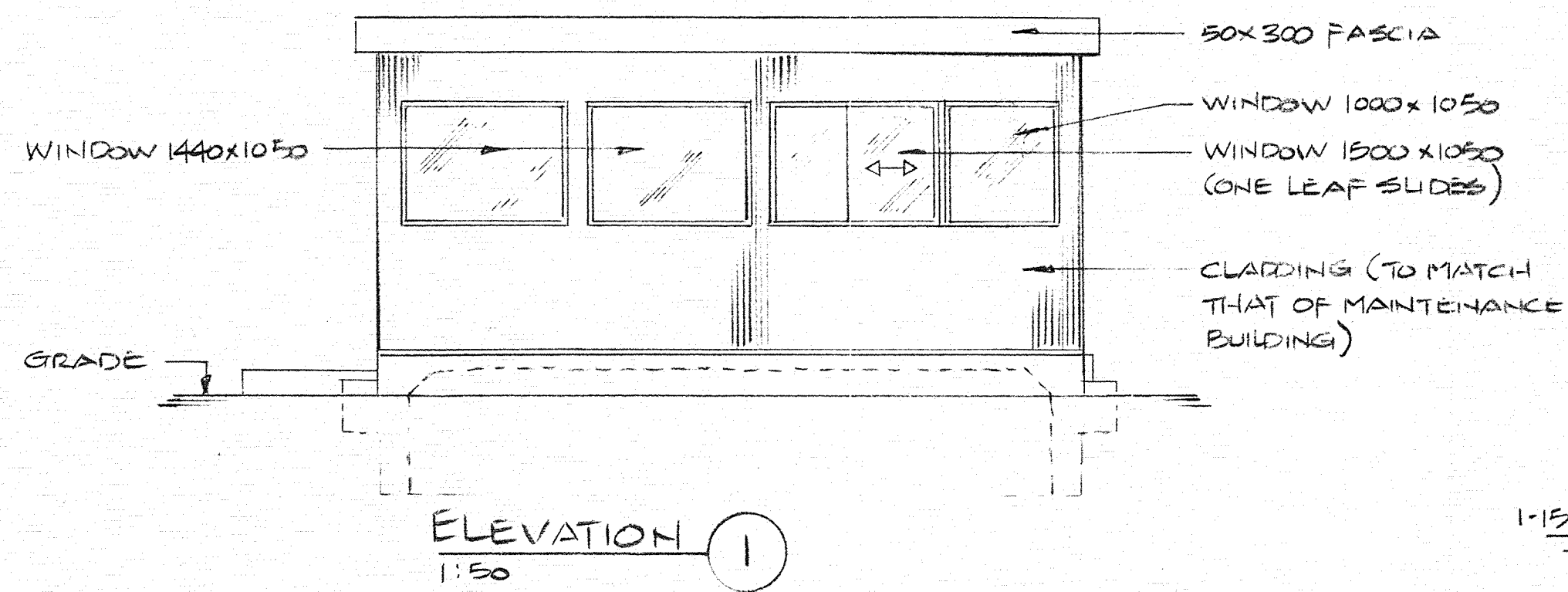
ITEM	QTY	PART NUMBER	DESCRIPTION
MAJOR BILL OF MATERIAL			
REV	CHANGE	BY	DATE
A	REMOVED DIELECTRIC COMPOUND	ADF	12/14/09
		SCALE	25
		DATE	10/01/09
		DRN ADF	APPD/AT
METTLER TOLEDO			
TITLE VTC221, GENERAL LAYOUT AND KIT-OF-PARTS, 3-MODULE SCALE			
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, AND DIMENSIONAL TOLERANCES ARE:			
FRACTIONAL	DECIMAL	ANGULAR	
.XX ±.02	.XX ±.02	.5° ±.5°	
.XXX ±.005	.XXX ±.005		
			TC207803
			REV A



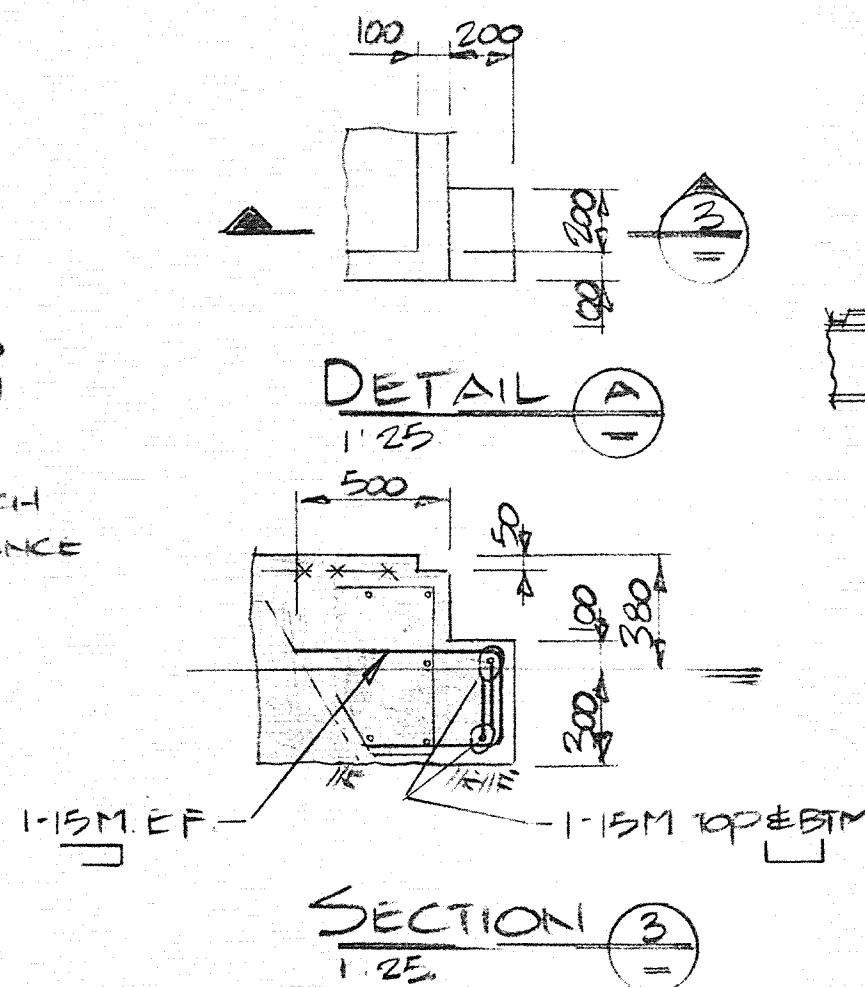
PLAN - SCALE BUILDING
1:50



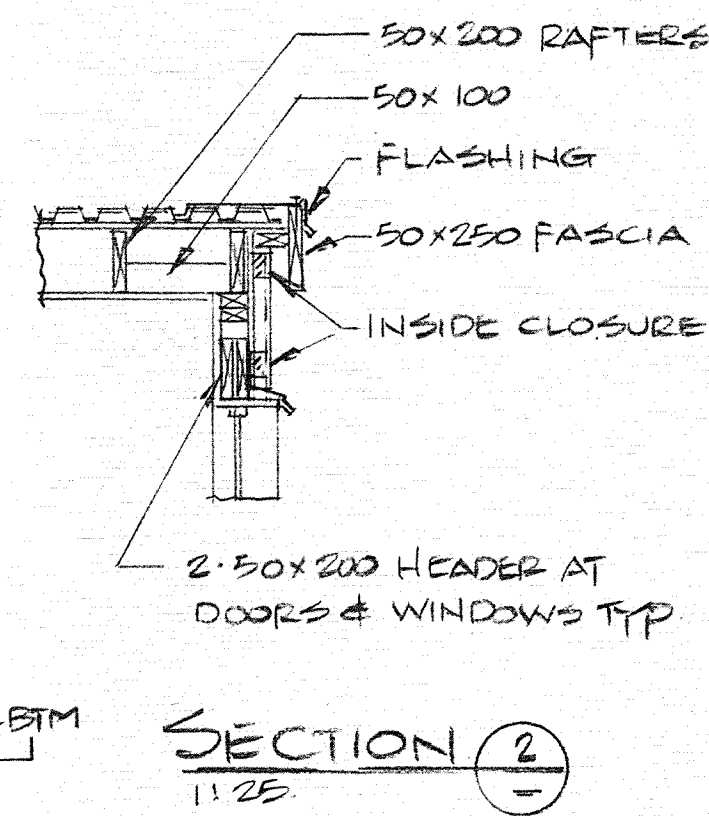
LEGEND
 --- HOT WATER
 --- COLD WATER
 --- SEWER



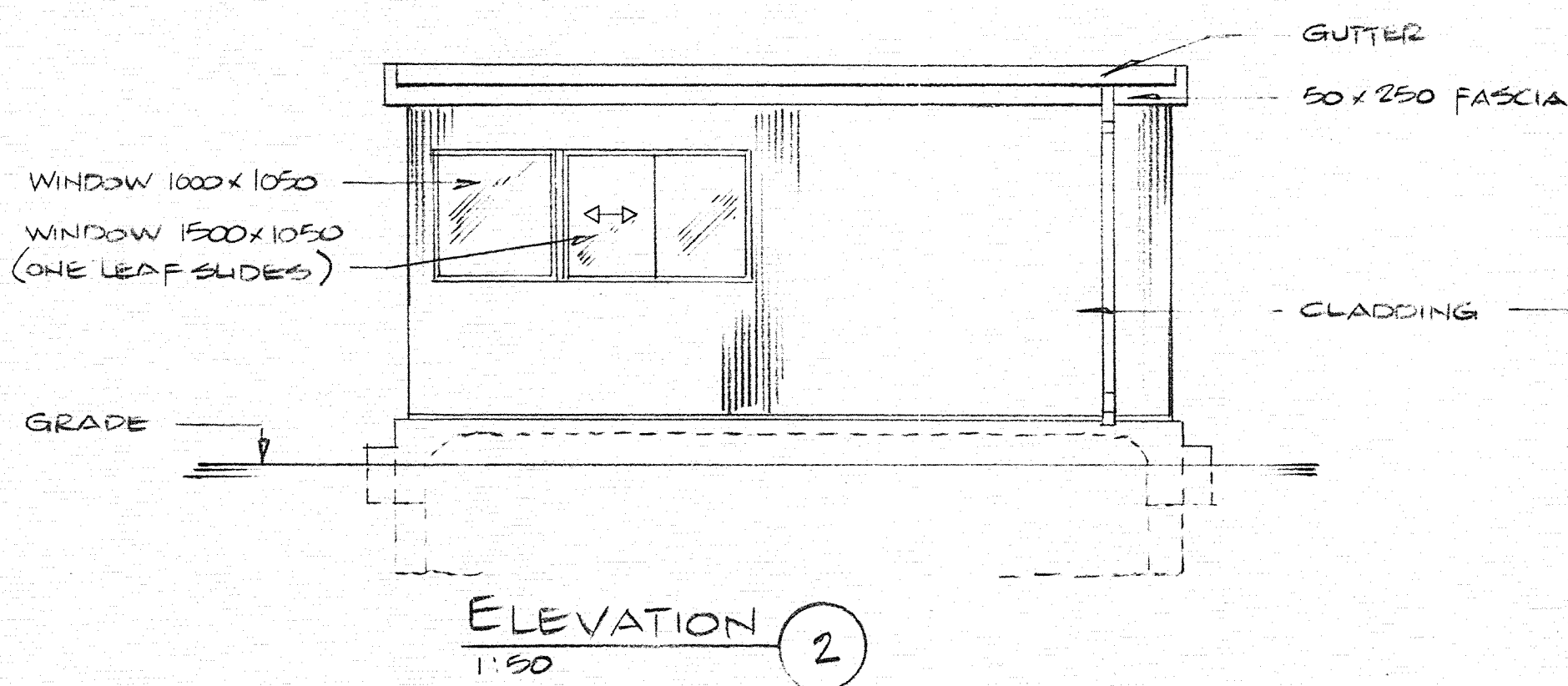
ELEVATION 1
1:50



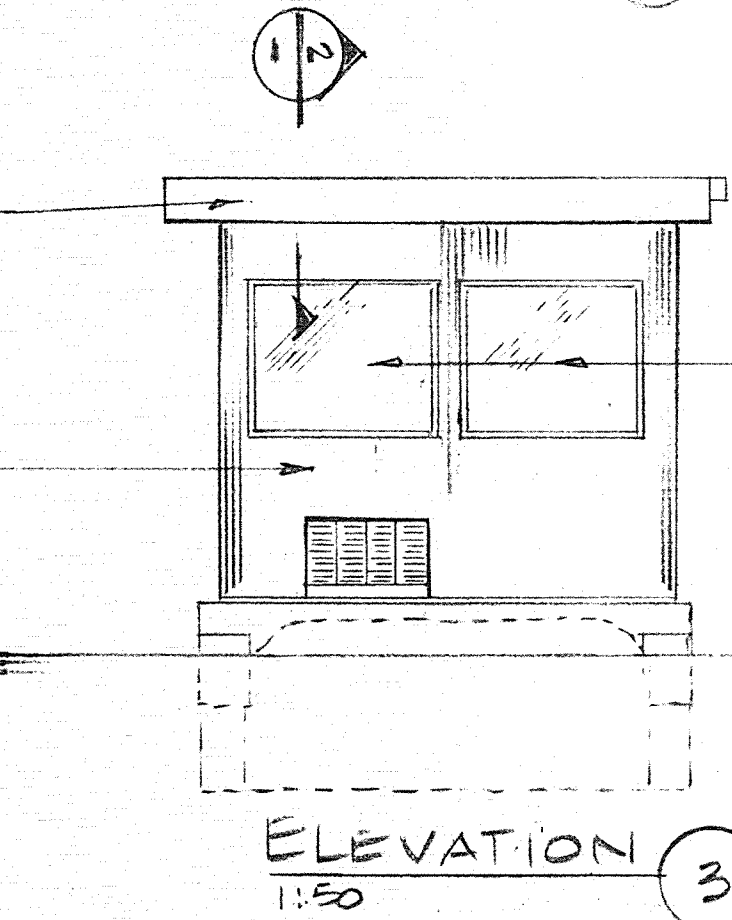
DETAIL A
1:25



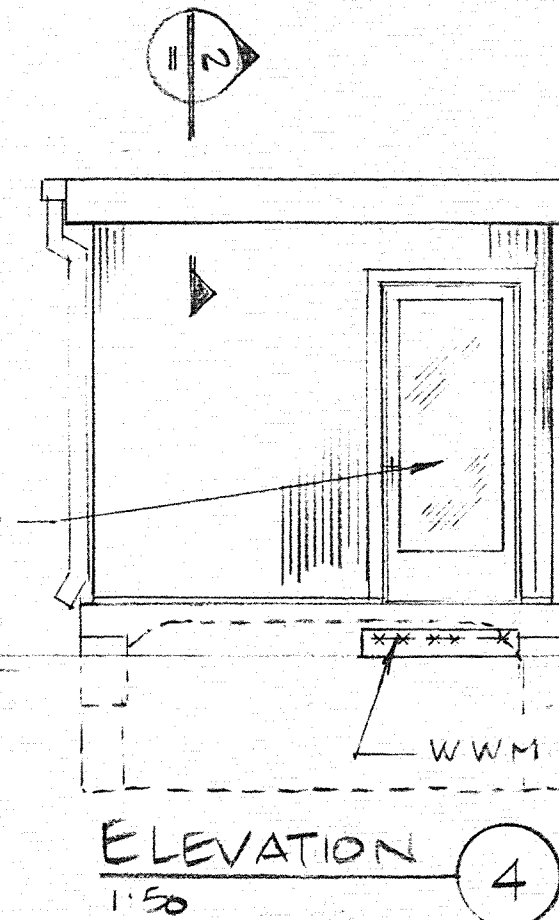
SECTION 2
1:25



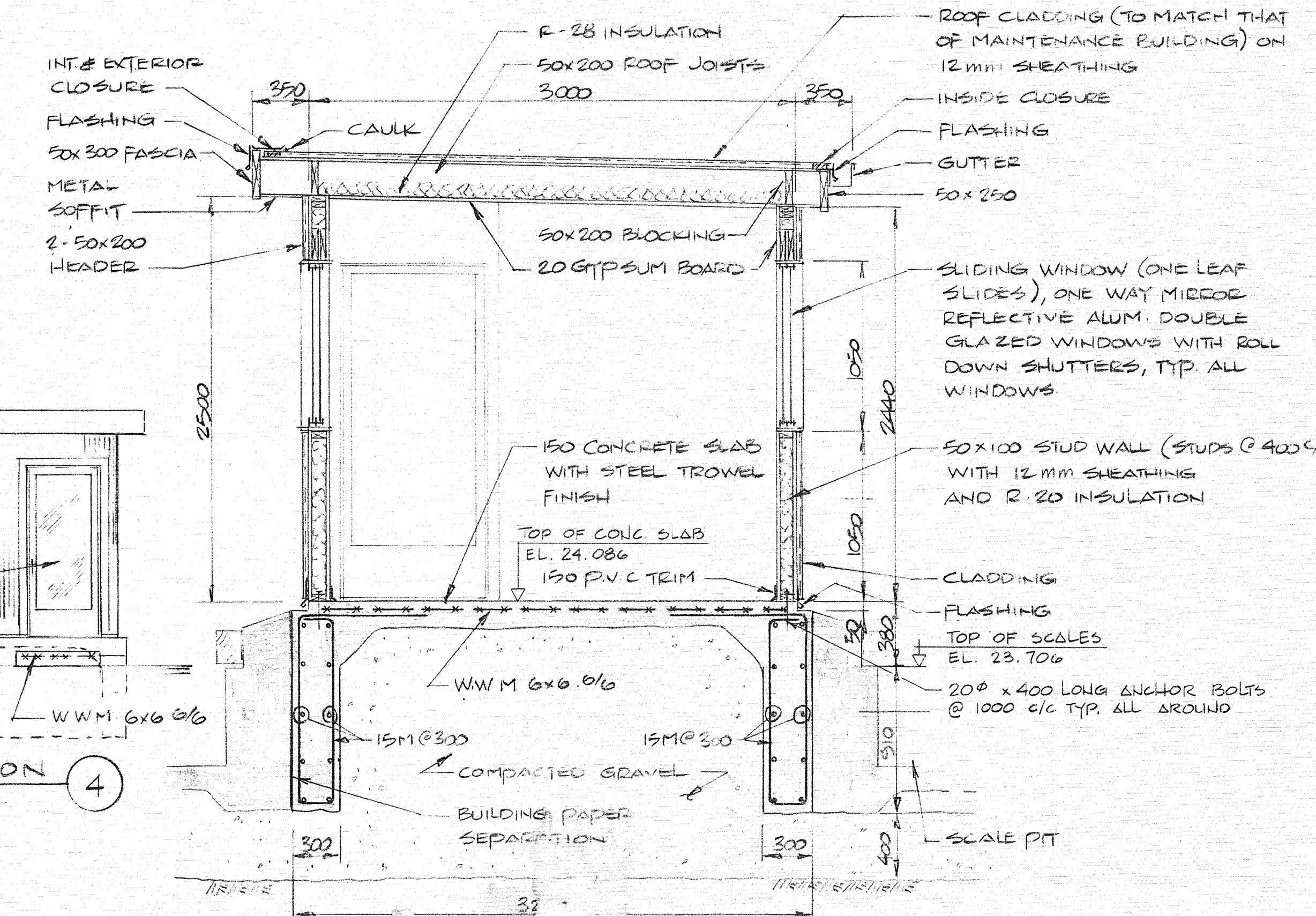
ELEVATION 2
1:50



ELEVATION 3
1:50



ELEVATION 4
1:50



SECT 1
1:25

"AS RECORDED"

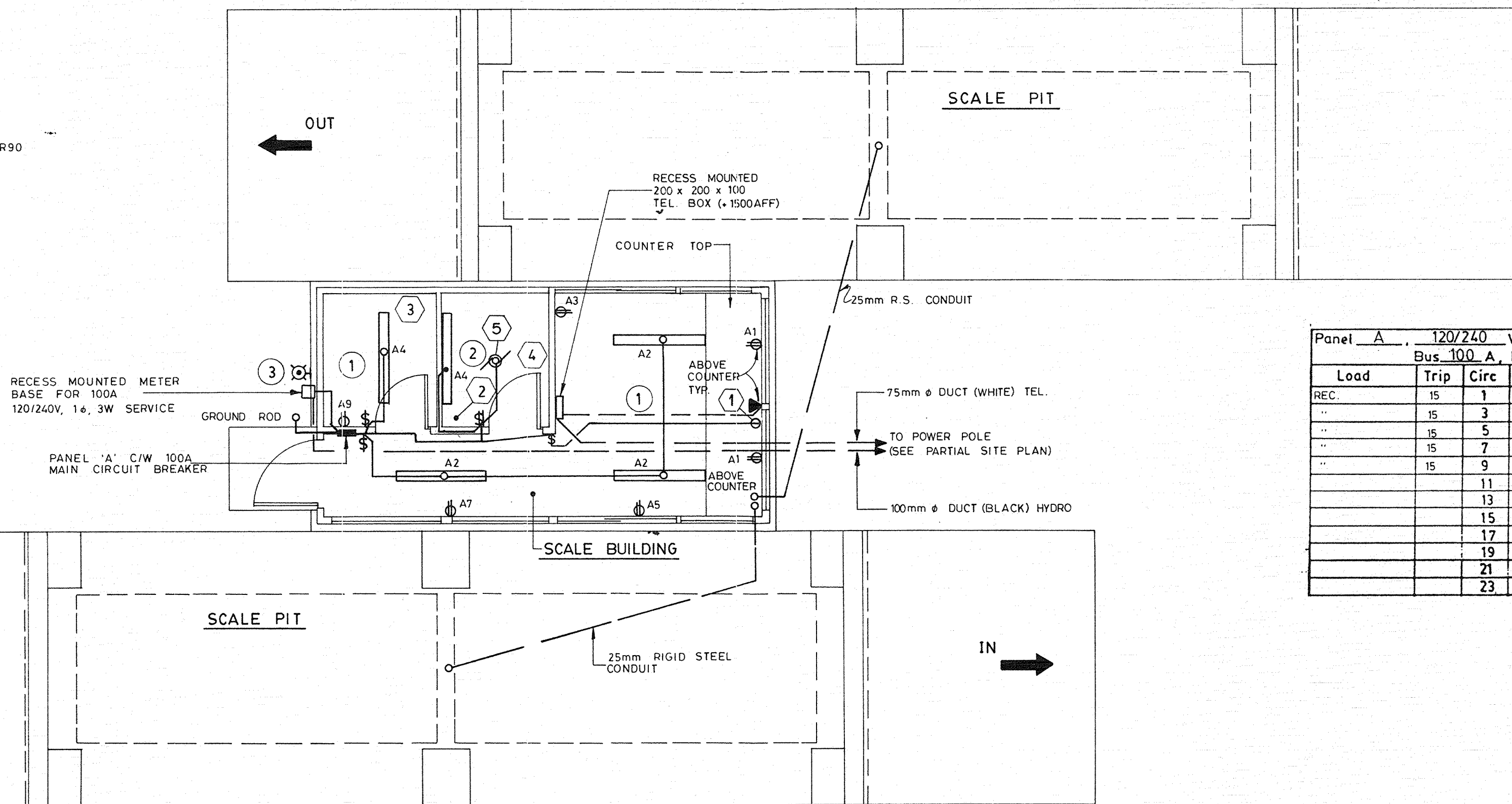
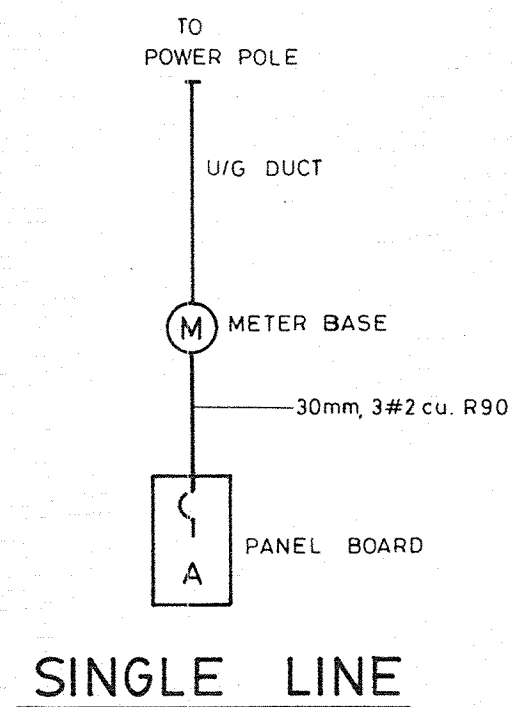
AI SIZE 594 x 841mm

REV	Y	M	D	REVISION	DESCRIPTION	DRN	SUPV	DES	CHK	ENG
2	92	01	29	AS RECORDED		EA	FE			WM
1	91	06	19	FOR CONSTRUCTION						
0	91	05	06	FOR TENDER		DP	FE	GS	GS	WM

UMA Engineering Ltd.
 Engineers & Planners
 British Columbia Alberta Saskatchewan
 Manitoba Ontario Yukon Territory
 Northwest Territories

REGIONAL DISTRICT OF NANAIMO
 NANAIMO SITE
 SCALE BUILDING

UMA	SCALE: AS NOTED	CODE 6070-001-00	DRAWING 02	REV 2
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SCALE BUILDING PLAN

1:50

TYPE	LUMINAIRE				LAMP			SEE NOTE
	MANUFACTURER	CATALOGUE NO	MOUNTING	QTY	WATT	VOLT	TYPE	
1	YORK	CP248	SURFACE	2	36	120	F20CWXR/SWM	1
2	YORK	MW148HPF	SURFACE	1	34	120	F60CWXR/SWM	1
3	KEENE	113-35NLXL	SURFACE	1	35	120	HPS	2

NOTES: 1) C/W MAGNETIC BALLAST & ENERGY SAVING LAMPS.
2) C/W MINI PHOTO CONTROL - 120V, KEENE F105A.

Panel A, 120/240 Volts, 1 φ, 3 Wire		Bus 100 A, Bkrs. 10,000 A.I.C.	
Load	Trip	Circ	Load
REC.	15	1	15
"	15	3	15
"	15	5	15
"	15	7	15
"	15	9	15
	11	12	30
	13	14	20
	15	16	15
	17	18	15
	19	20	
	21	22	
	23	24	

NO	DESCRIPTION	FEEDER	CIRCUIT	C.BKR.	LOAD	VOLT	#	STARTER		DIS. SWITCH		NOTE
								TYPE	SUPPLIED	CONNECTED	TYPE	
1	AIR CONDITIONER		A10-12	30	5.0KW	230	1			●	●	1
2	HOT WATER TANK		A14	20	1.5KW	120	1					
3	ELECT. HEAT		A16	15	.5KW	120	1					
4	ELECT. HEAT		A18	15	.5KW	120	1					
5	OVERHEAD FAN											

NOTE 1: C/W WEATHERPROOF DISC. SWITCH.

SPECIFICATIONS

SCOPE
Division 16 to provide all labour, materials and equipment unless specifically noted otherwise to complete and put in operating condition all electrical systems as indicated on the drawings and specified herein. Any work and/or detail even if not shown or specified, which are obviously necessary or reasonably implied to complete the work and/or to meet the Code requirements shall be done as if both shown and specified.

MATERIALS AND WORKMANSHIP
All materials to be new, of minimum quality specified, and bear C.S.A. approval. All work to be performed by competent tradesmen, in workmanlike manner. Clean up all debris at completion of this project.

CODES, PERMITS AND INSPECTIONS
Installation shall comply with the current edition of the Canadian Electrical Code, governing National Building Code and regulations of the Electrical Inspection Authority. Obtain permits and pay the applicable fees. After completion of the work, furnish to the Engineer a Certificate of Final Inspection and Approval from the Inspection Department.

VISIT TO SITE
Examine the site and local conditions affecting the work before submitting tender. No extra will be allowed for work resulting from conditions which would have been evident upon a thorough examination of the site.

APPROVALS
Substitution of materials, equivalent to those specified, may be made only after written approval has been obtained from the Engineer before closing of Tender.

GUARANTEE
Division 16 shall guarantee the satisfactory operation of all work and apparatus installed under this contract and shall replace forthwith at his own expense, any part which may fail or prove defective within a period of 12 months after final acceptance of the complete contract, always provided that such failure is not due to improper usage or ordinary wear and tear.

DRAWINGS AND SPECIFICATIONS
Should any discrepancy appear between drawings and specifications, which leaves doubt as to the true intent and meaning, obtain a ruling from the Engineer before submitting tender. Failing this, allow for most expensive alternative.

CO-ORDINATION
Drawings indicate general location and route to be followed by conduit and/or wire. Follow architectural, structural and mechanical drawings for details of this work and install electrical conduit, boxes and fittings to co-ordinate with architectural, structural and mechanical work and details. Refer to architectural and structural drawings for accurate dimensions.

LOCATION OF OUTLETS
Engineer reserves the right to change location of outlets to within ten (10) feet of points indicated on plans without extra charge providing Division 16 is advised prior to installation.

GROUNDING
Ground all non current carrying parts as per Section 10 of the Canadian Electrical Code. Install a ground rod as shown on the plans.

LIGHTING SYSTEM
Supply and install luminaires, lamps, ballasts, supports and accessories as shown and specified on the drawings. Provide wiring and connections to all luminaires as shown on the drawings.

PANELBOARD
Supply and install a panelboard similar to Westinghouse Type NBA complete with bolt-on circuit breakers as shown on the panel schedule. Provide shop drawing for Panelboard.

MOUNTING HEIGHTS
Unless otherwise noted on the drawings or in the specifications, mounting heights for electrical devices to be as follows:
Switches - 54" Telephone Outlets - 12"
Receptacles - 12"

SHOP DRAWINGS
Submit shop drawings for lighting fixtures.

MECHANICAL EQUIPMENT WIRING
Provide power wiring exhaust fan.

CONDUITS
Provide rigid conduit to the Scale Pit as shown on the drawings. Extend existing conduit in to the Scale Building with rigid PVC conduit as shown on the drawings.

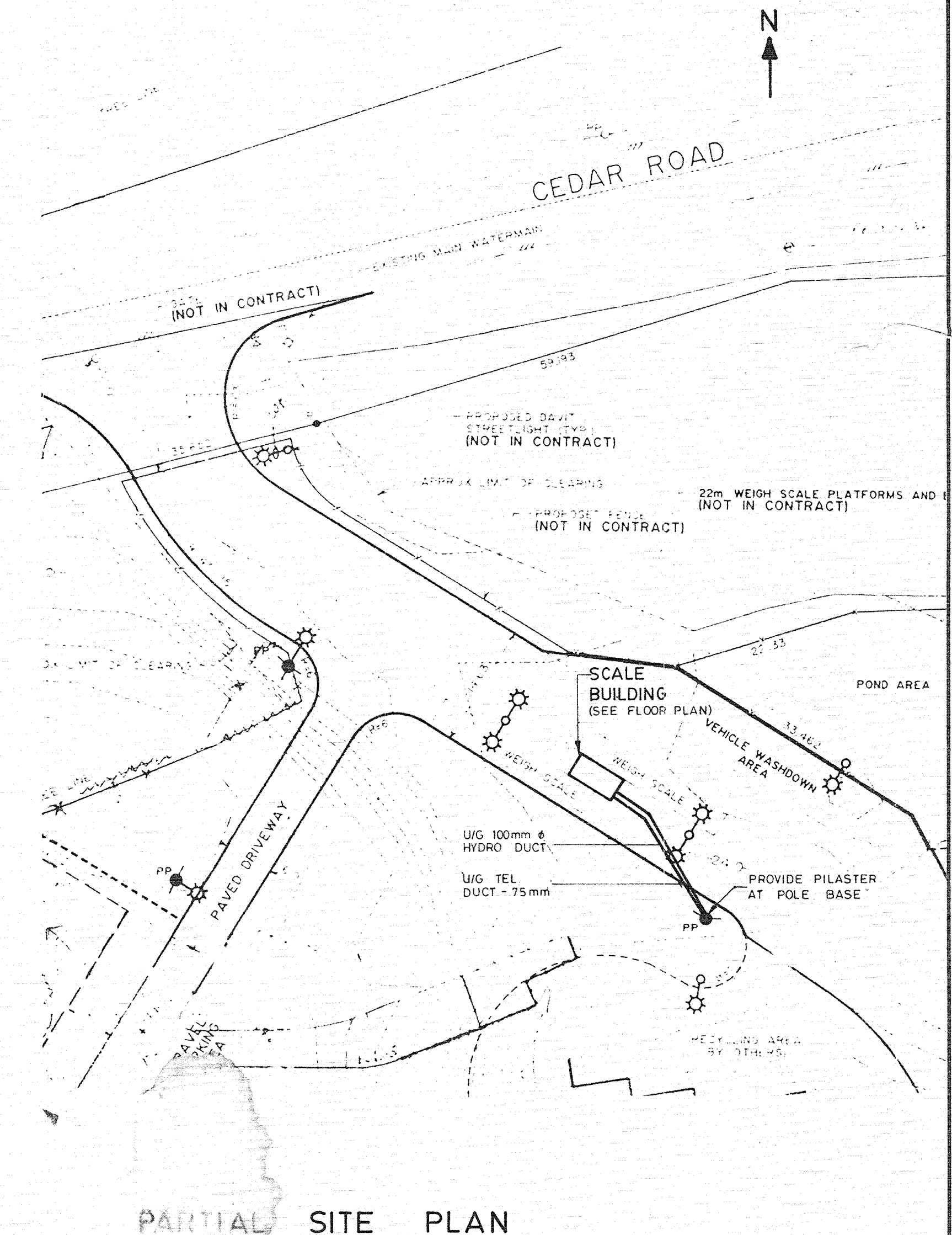
CONDUCTORS
All conductors shall be copper with RW90 x-link insulation. No. 12 minimum to be used for branch circuit wiring. Use NMD-7 wiring for all branch circuit wiring in the Scale Building.

BOXES
Except where noted otherwise, boxes shall be pressed sheet steel galvanized to C.S.A. standards. Handy boxes or sectional boxes shall not be used.

SWITCHES
Line voltage switches shall be quiet, slow make, slow break design, toggle handle with totally enclosed case, rated at 15 amps, 120/277 volt A.C., specification grade type. No residential grade type shall be permitted. Colour to be ivory.

RECEPTACLES
Full gang size, polarized, duplex, parallel blade, U-grounding slot, rated at 15 amps, 125 volt, A.C., specification grade type. No residential grade type shall be permitted. Colour to be ivory.

PLATES
A full complement of plates shall be provided for switches, receptacles. Plates shall be stainless steel throughout.



PARTIAL SITE PLAN

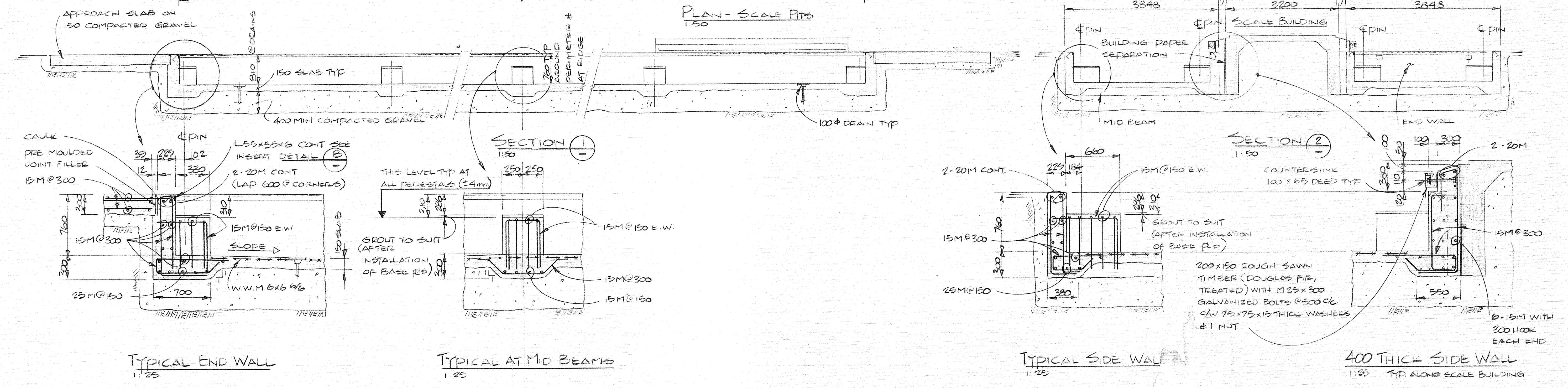
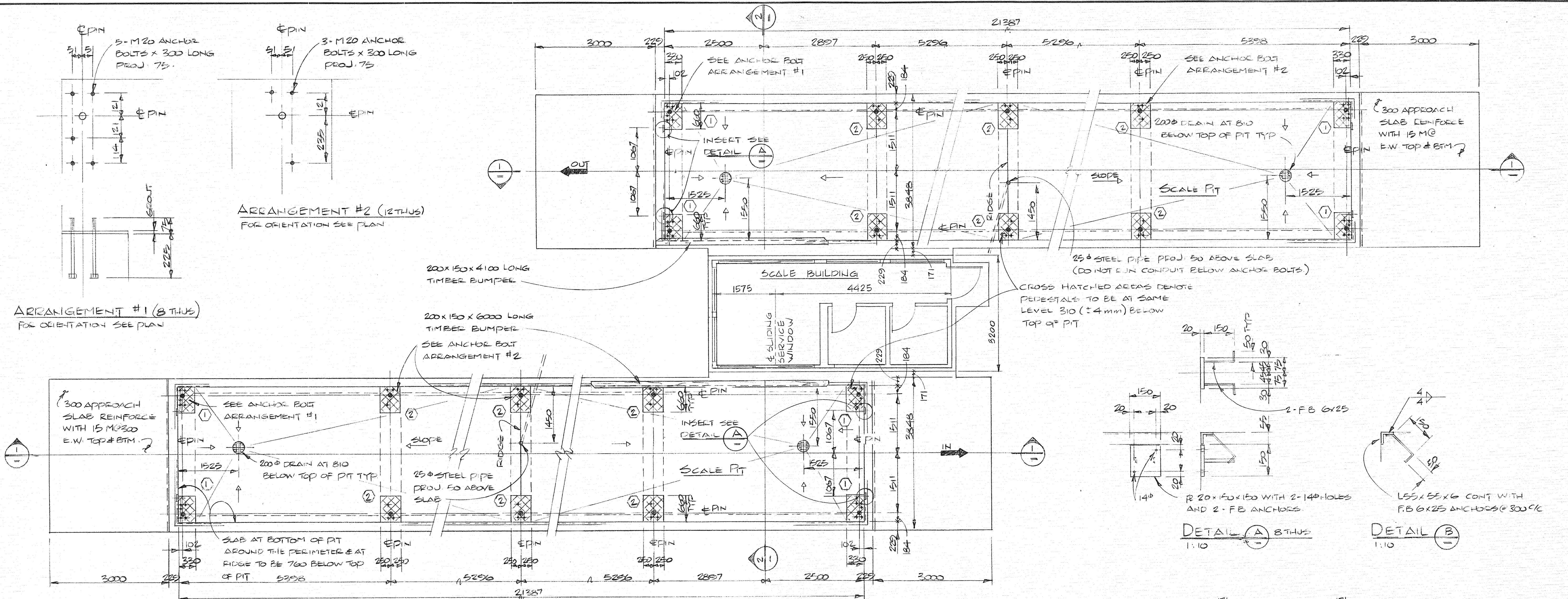
AI SIZE 594 x 841mm

1	91	06	19	FOR CONSTRUCTION					
0	91	4	5	FOR TENDER	AS	RL	RL		
REV	Y	M	D	REVISION	DRN	SUPV	DES	CHK	ENG

UMA Engineering Ltd.
Engineers & Planners
British Columbia Alberta Saskatchewan
Manitoba Ontario Yukon Territory
Northwest Territories

UMA ENGINEERING LTD.
REGIONAL DISTRICT OF NANAIMO
CONSULTING ENGINEERS

REGIONAL DISTRICT OF NANAIMO		
NANAIMO SITE		
SCALE BUILDING ELECTRICAL		
7208-000	CODE 6070-001-00	DRAWING E1
		REV 1



"AS RECORDED"

REGIONAL DISTRICT OF NANAIMO
NANAIMO SITE
SCALE PIT DETAILS

UMA Engineering Ltd.
Engineers & Planners
British Columbia Alberta Saskatchewan
Manitoba Ontario Yukon Territory
Northwest Territories

REV	Y	M	D	REVISION	DESCRIPTION	DRN	SUPV	DES	CHK	ENG
2	92	01	29	AS RECORDED		EA	FE			WM
1	91	06	19	FOR CONSTRUCTION						
0	91	05	06	FOR TENDER		DP	FE	GS	GS	WM

SCALE	CODE	DRAWING	REV
AS NOTED	6070-001-00	03	2

A1 SIZE 594 x 841mm

November 24, 2016

3233-003

Via email: helmut@hbheconsulting.com

HBHE Consulting
3366 Limerick Road
Duncan, BC
V9L 4P8

Attn: Helmut Blanken, P.Eng., Principal

Re: RDN Landfill Weigh-Scale Foundation Review

Dear Helmut:

Herold Engineering Limited visited the above mentioned site on October 12, 2016 to review the surface condition of the weigh-scale foundation. Access to the underside of the weigh scale was limited and so it was agreed to hire Pipe Eye to do a camera survey of the scale foundations so that a visual review could be conducted.

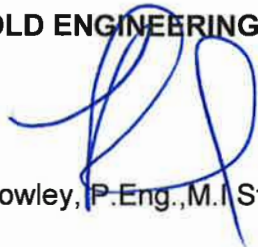
We then met with Pipe Eye on site on October 27, 2016 to discuss the process and work required to review the inbound scale foundation and subsequently reviewed the Pipe Eye video. From this review, we found the foundations to appear to be in reasonable condition. There are some minor cracks which are probably shrinkage related but no significant spalling was noted.

Furthermore, we reviewed the Pipe Eye videos for the outbound scale performed on November 16, 2016 and the condition appears slightly worse than the inbound scale. Main items noted were some wider cracks in the grade beam and a horizontal crack at the south end which may indicate some spalling. The damage appears repairable and Herold Engineering can confirm that the foundations are structurally suitable for re-use. Please note, we recommend making an allowance of \$5,000 for miscellaneous concrete repairs for both scales, as some of the embedded rusted metal work may have damaged the concrete.

Should you need any further information do not hesitate to contact me.

Yours truly,

HEROLD ENGINEERING LIMITED



Lee Rowley, P.Eng., M.I. Struct.E., M.I.C.E., LEED AP

Principal

Enclosure



April 7, 2017

3233-004

Via email: MWarren@rdn.bc.ca

Regional District of Nanaimo
6300 Hammond Bay Road
Nanaimo, BC
V9T 6N2

Attn: Maggie Warren, Superintendent Scale and Transfer Service

Re: Scale House Relocation on Existing Weigh Scale Slab

Dear Maggie:

As requested, Herold Engineering Limited (HEL) visited the Cedar Landfill site on March 31st to review the configuration of the slab supporting the existing scale house. We have reviewed the Scale Building Drawings produced by UMA in 1991 versus the configuration that was built and would comment as follows:

- The drawing shows the extent of the supporting slab to end at the edge of the existing scale building. However onsite, the slab appears to carry on past the west end of the scale house.
- It is understood that a larger scale building of similar construction to the existing is to be constructed on this extended portion of the slab and that confirmation that the slab is adequate for this purpose is required.
- A slab of similar construction to that shown on the drawing is adequate to carry the proposed building.
- Note that it is highly likely that the slab is adequate to support the proposed configuration however, to verify this HEL would recommend a test hole be dug at the end of the slab (*as indicated in the attached photograph*) to confirm that the foundation does extend down as indicated on the drawing. During the time that the test hole is reviewed, HEL will use our in-house pachometer to review the reinforcing in the slab.

Should you have any further questions please do not hesitate to contact me.

Yours truly,

HEROLD ENGINEERING LIMITED

Lee Rowley, P.Eng., M.I.Struct.E., M.I.C.E., LEED AP
Principal

Enclosure

