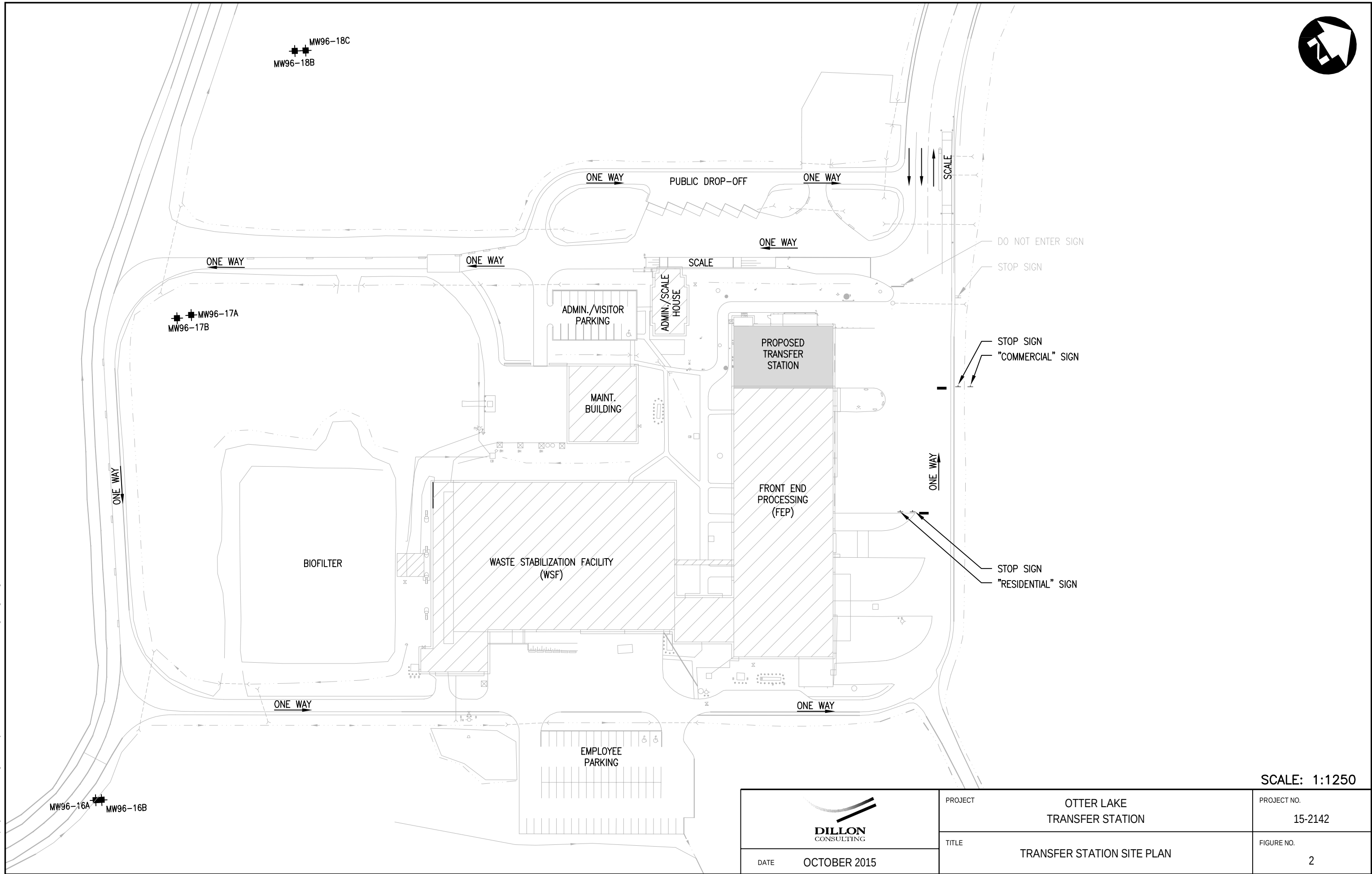
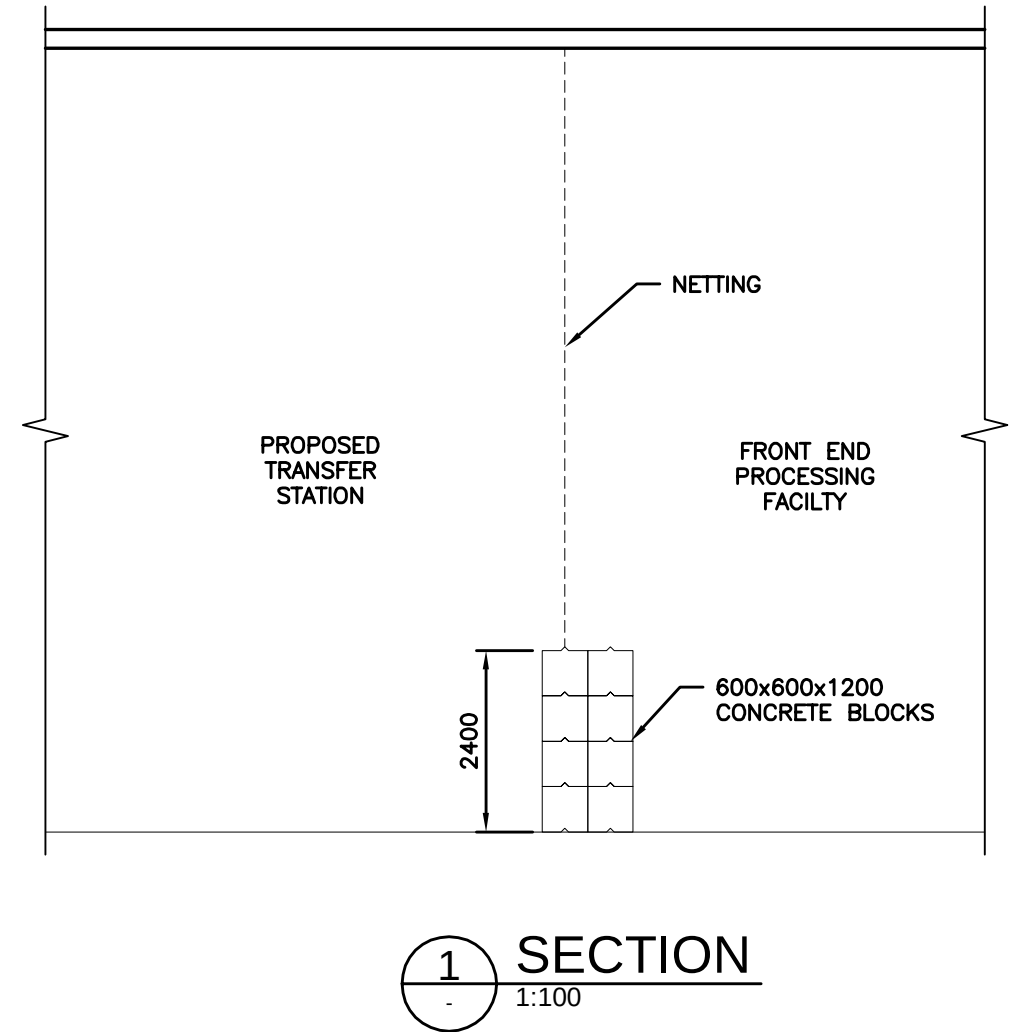
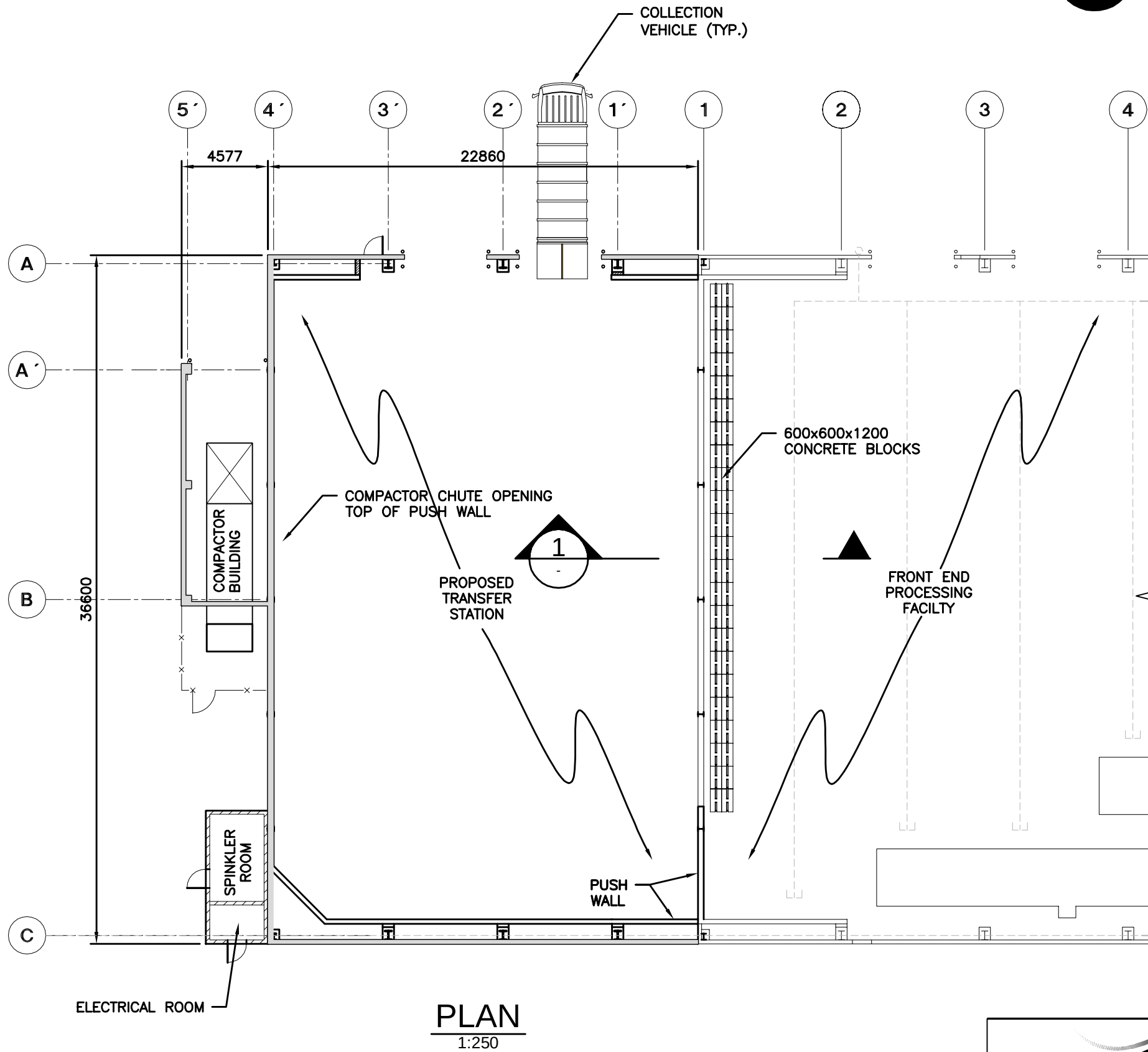


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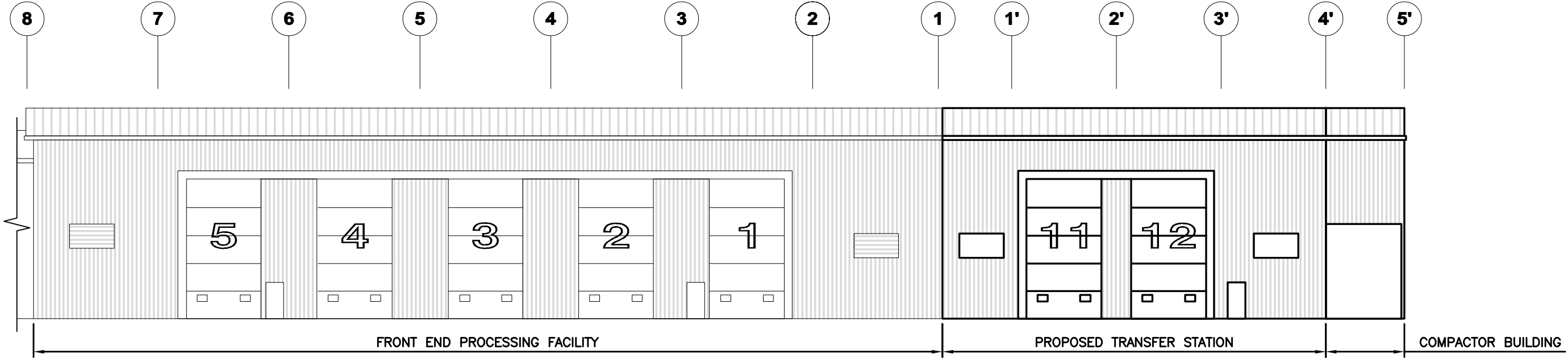
 DILLON CONSULTING	PROJECT OTTER LAKE TRANSFER STATION	PROJECT NO. 15-2142
	TITLE TRANSFER STATION SITE PLAN	FIGURE NO. 2
DATE OCTOBER 2015		

File Name: c:\project\working directory\active\50dbcd\0216086152142-02-gen-fig3.dwg



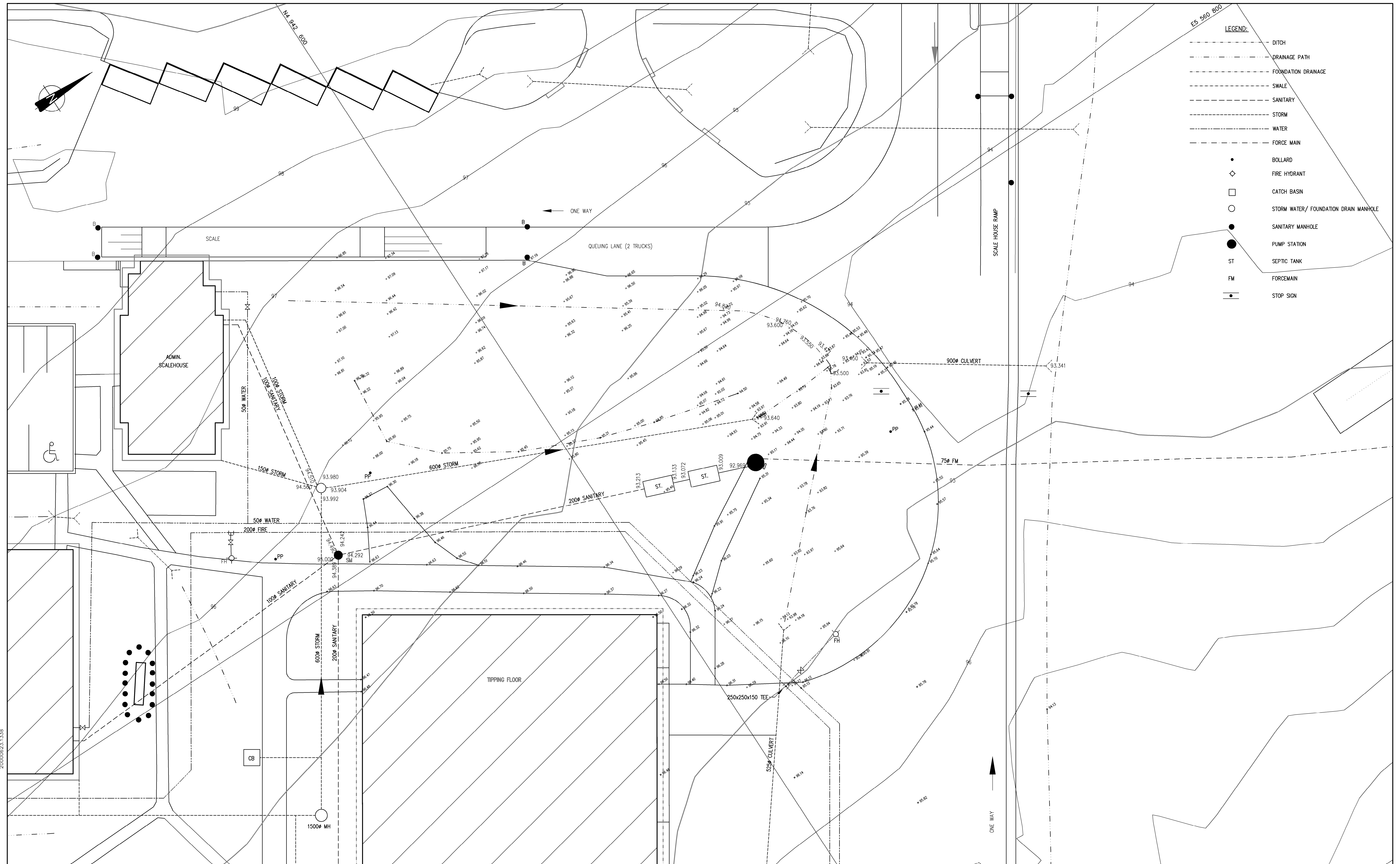
 DILLON CONSULTING	PROJECT OTTER LAKE TRANSFER STATION	PROJECT NO. 15-2142
	TITLE TRANSFER STATION FLOOR PLAN	FIGURE NO. 3
DATE OCTOBER 2015		

File Name: c:\project\wise\working directory\active\50dbcd\0216086152142-02-gen-fig4.dwg



FRONT ELEVATION
1:250

 DILLON CONSULTING	PROJECT OTTER LAKE TRANSFER STATION	PROJECT NO. 15-2142
	TITLE TRANSFER STATION FRONT ELEVATION	FIGURE NO. 4
DATE OCTOBER 2015		

[illegible]



NOTES:

1. DIMENSIONS ARE GOVERNED BY THE LARGER ADJACENT PIPE. (FIG. 2)
2. DIMENSION 'A' EQUALS 25% OF THE NOMINAL DIAMETER OR 150mm WHICHEVER IS GREATER.
3. ACTUAL CONSTRUCTION WIDTHS SHALL BE IN ACCORDANCE WITH THE REGULATIONS AND THE REQUIREMENTS OF THE DEPARTMENTS OF HEALTH, ENVIRONMENT AND LABOUR.
4. MINIMUM COVER 1500mm.
5. WHERE TWO PIPES CROSS EACH OTHER AND THERE IS LESS THAN 900mm CLEAR BETWEEN THEM, ENCASE THE LOWER ONE IN FLOWABLE FILL OR LATE CONCRETE. DRAWING TO THE CENTRELINE OF THE UPPER PIPE AND WITH A LENGTH ALONG THE LOWER PIPE EQUAL TO THE OUTSIDE DIAMETER OF THE UPPER PIPE PLUS 1200mm OR TO UNDISTURBED GROUND.

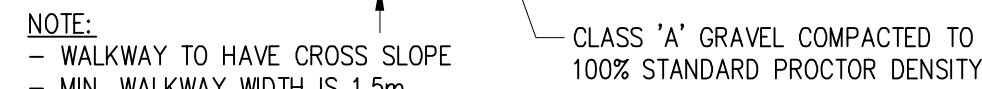


INSULATION DETAIL
N.T.S.



CULVERT DETAIL

N.T.S



ASPHALT WALKWAY

N.T.S

- NOTES:
1. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED BY THE HOT DIP PROCESS. POST BOLTS SHALL BE CAPABLE OF WITHSTANDING 106 Kn IN SINGLE SHEAR. 16mm SQUARE NUTS AND 19mm ROUND WASHERS ARE TO BE USED. ONE WASHER FOR EACH 240 x 16mm BOLT.
- 75
- 180



CULVERT HEADWALL AND APRON DETAIL

SCALE: N.T.S



TYPICAL SURFACE WATER SWALE

N.T.S.



N.T.S

PAVED AREAS

N.T.S.

- NOTE:
1. CLEAR AND GRUB AS REQUIRED.
 2. HYDROSEED ALL DISTURBED AREAS.
 3. GRAVELS TO BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

* FOR CLAY TILL SUBGRADE, THE GRANULAR BASE WILL BE 250mm TYPE I GRAVEL AND THE GRANULAR SUB-BASE WILL BE 425mm TYPE II GRAVEL WITH TERRAFIX 270R GEOTEXTILE SEPARATION BETWEEN CLAY AND GRAVEL.

GRAVEL AREAS

N.T.S

- NOTE:
1. CLEAR AND GRUB AS REQUIRED.
 2. HYDROSEED ALL DISTURBED AREAS.
 3. GRAVELS TO BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

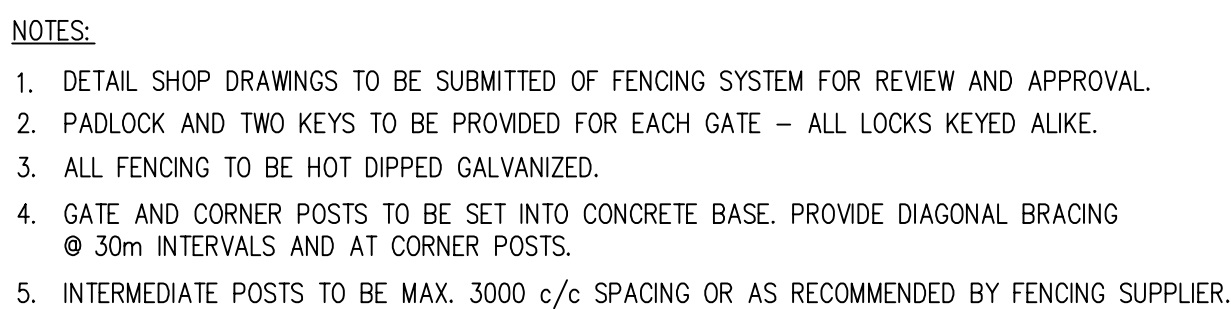


GUIDE RAIL DETAILS

N.T.S



N.T.S



FENCE AND GATE DETAILS

N.T.S.



SCALE: N.T.S.



SCALE: 1:20



N.T.S

TYPICAL BOLLARD



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CONSULTING



NOTE:-

1. THRUST BLOCK SIZES ARE BASED ON 21 MPa BEARING CAPACITY. CONTRACTOR TO CONFIRM SOIL BEARING CAPACITY PRIOR TO INSTALLATION OF THRUST BLOCKS
2. CONTRACTOR WILL BE PERMITTED TO USE ACCEPTABLE JOINT RESTRAINT SYSTEM AS ALTERNATE.
3. IN AREAS WHERE PIPING IS CONGESTED OR WHERE THERE IS NO UNDISTURBED SOIL CONTRACTOR SHALL SUBMIT DETAILS OF PROPOSED THRUST BLOCKS OR RESTRAINT SYSTEMS TO ENGINEER FOR REVIEW.

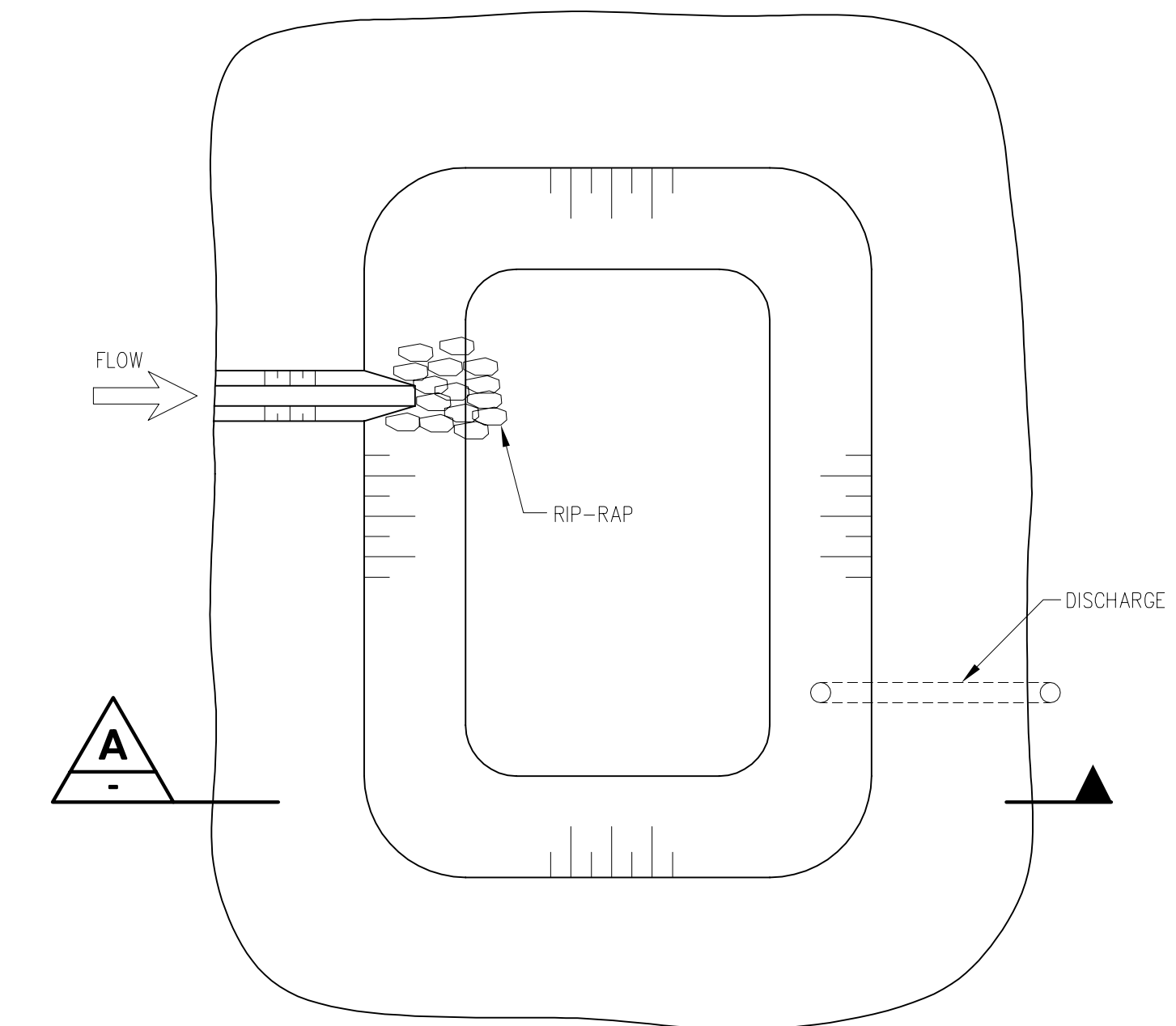
MISCELLANEOUS DETAILS II

SHEET NO.

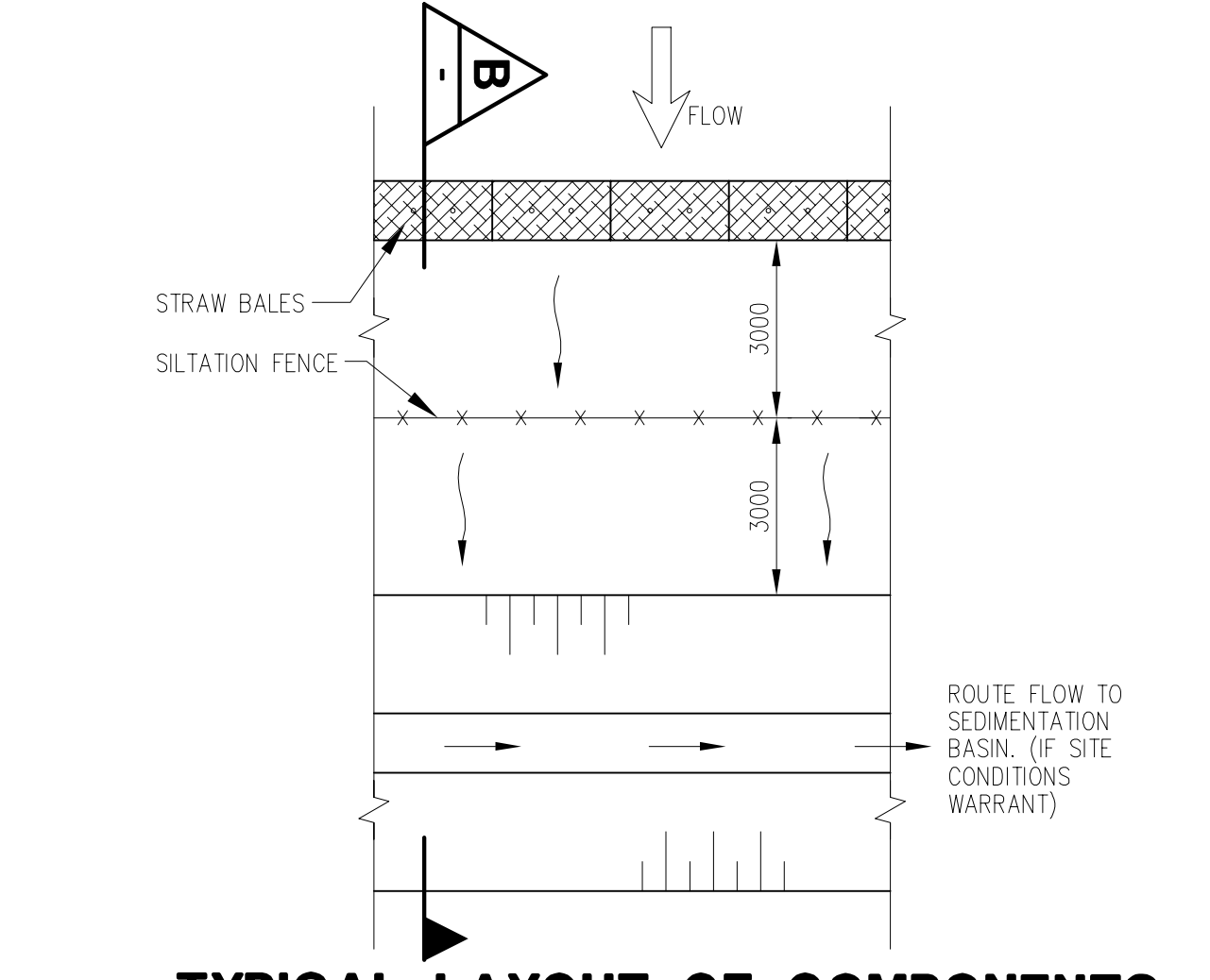
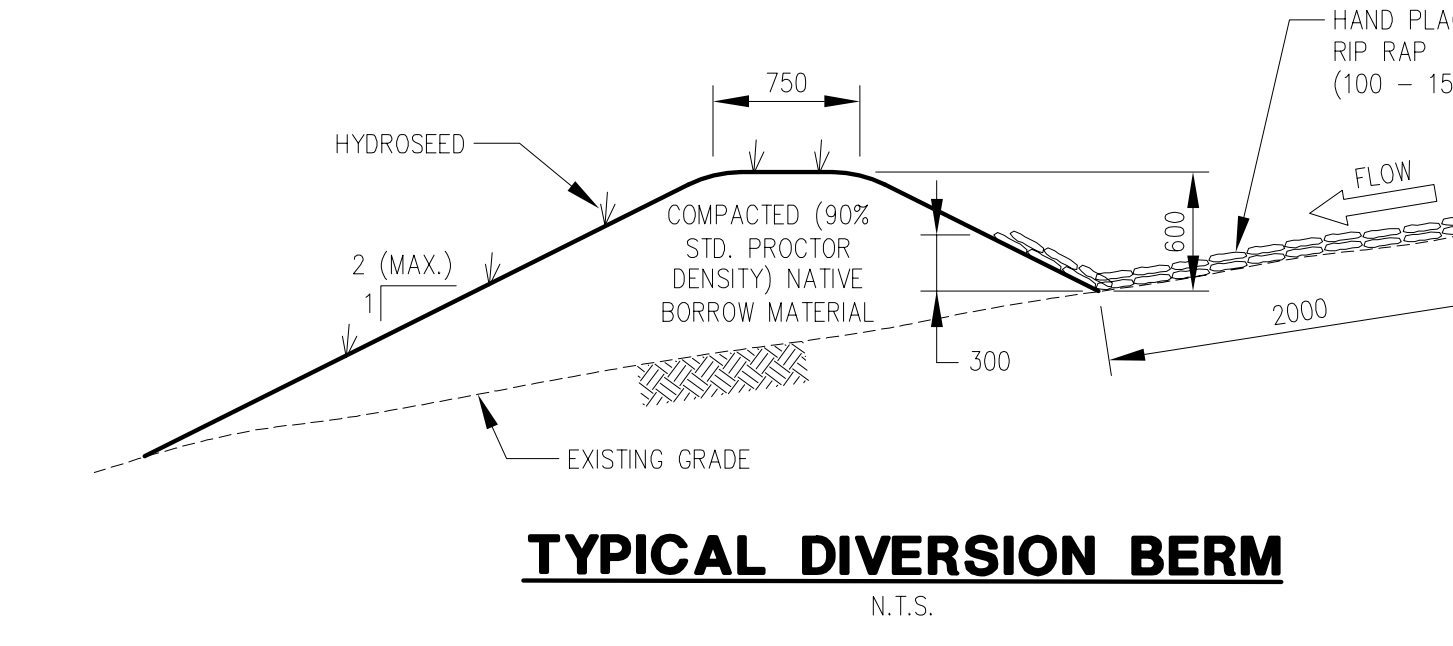
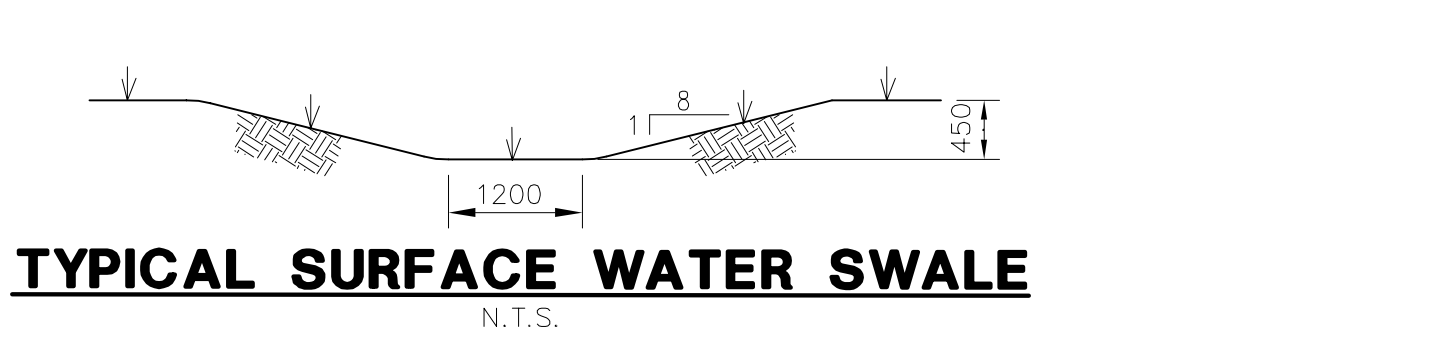
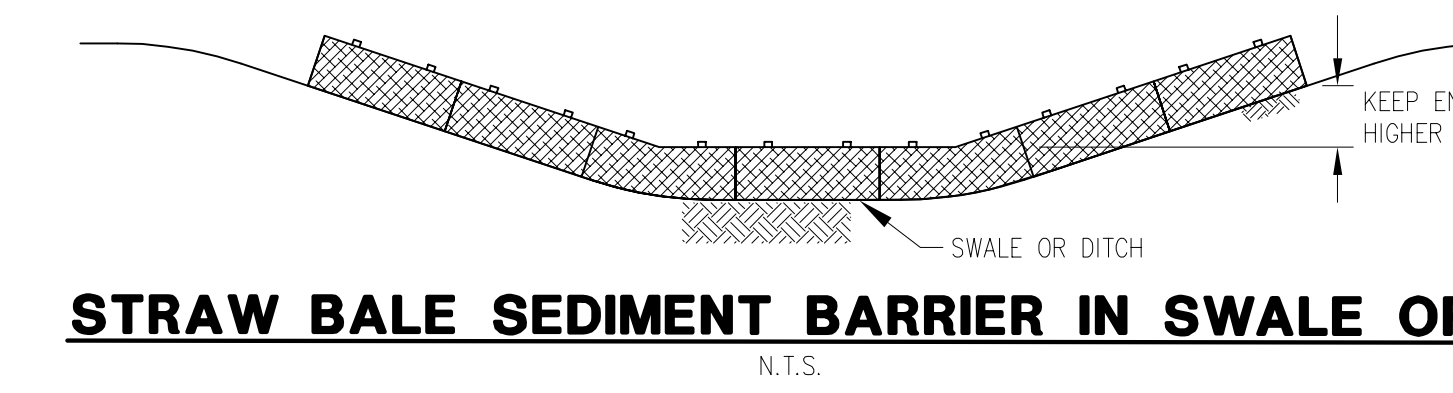
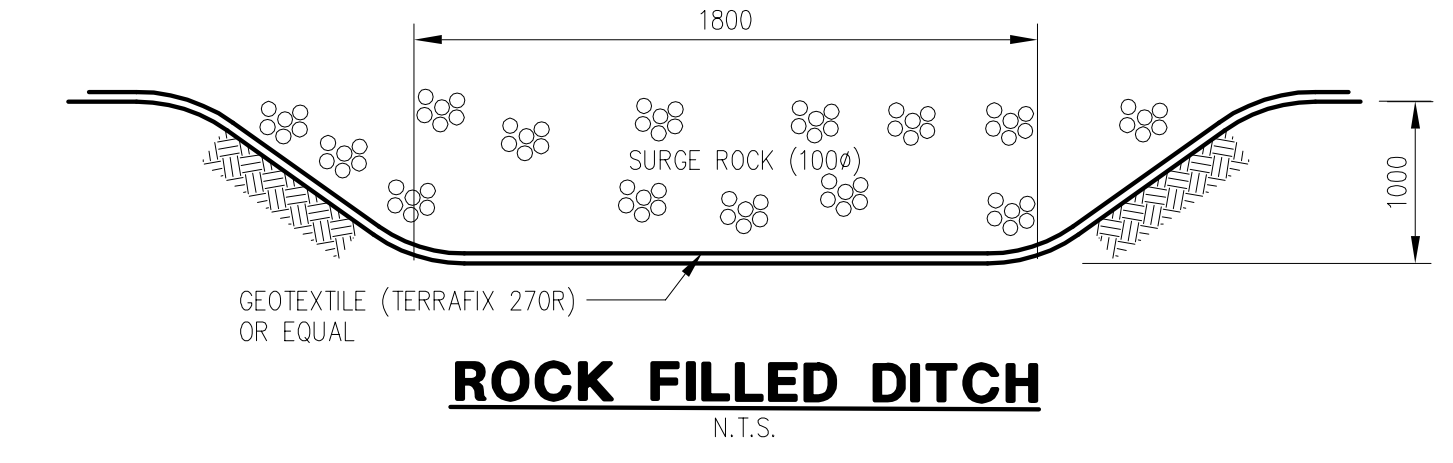
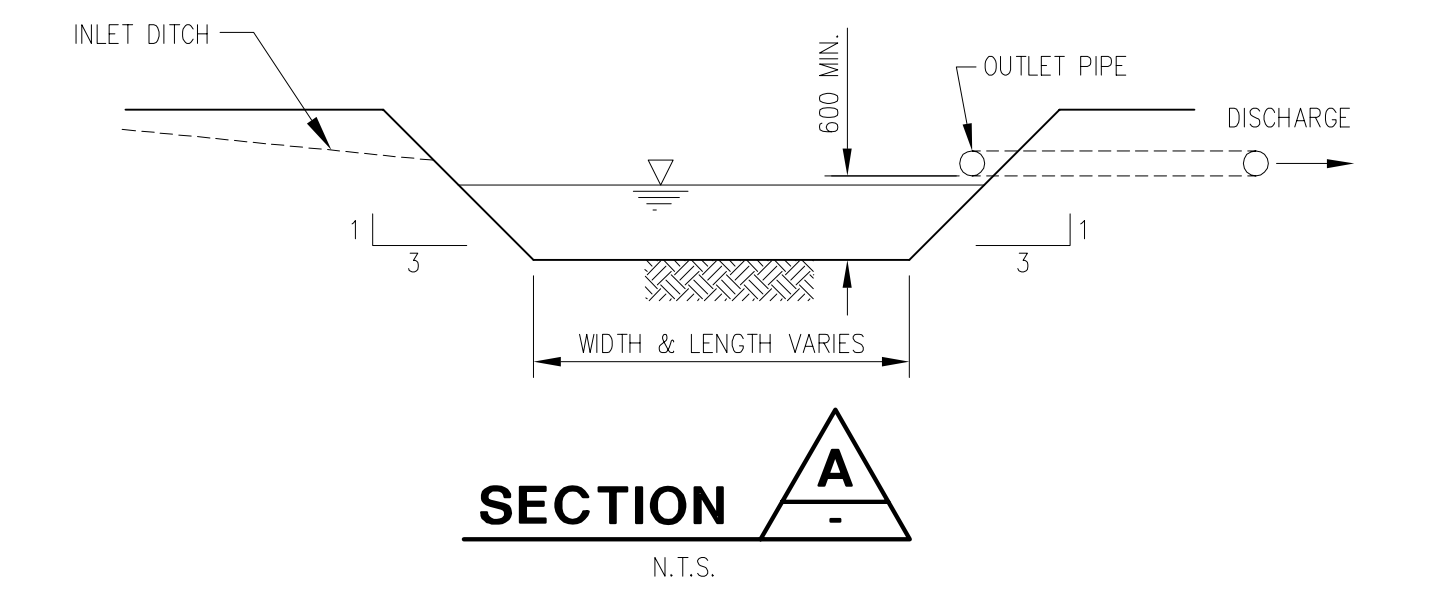
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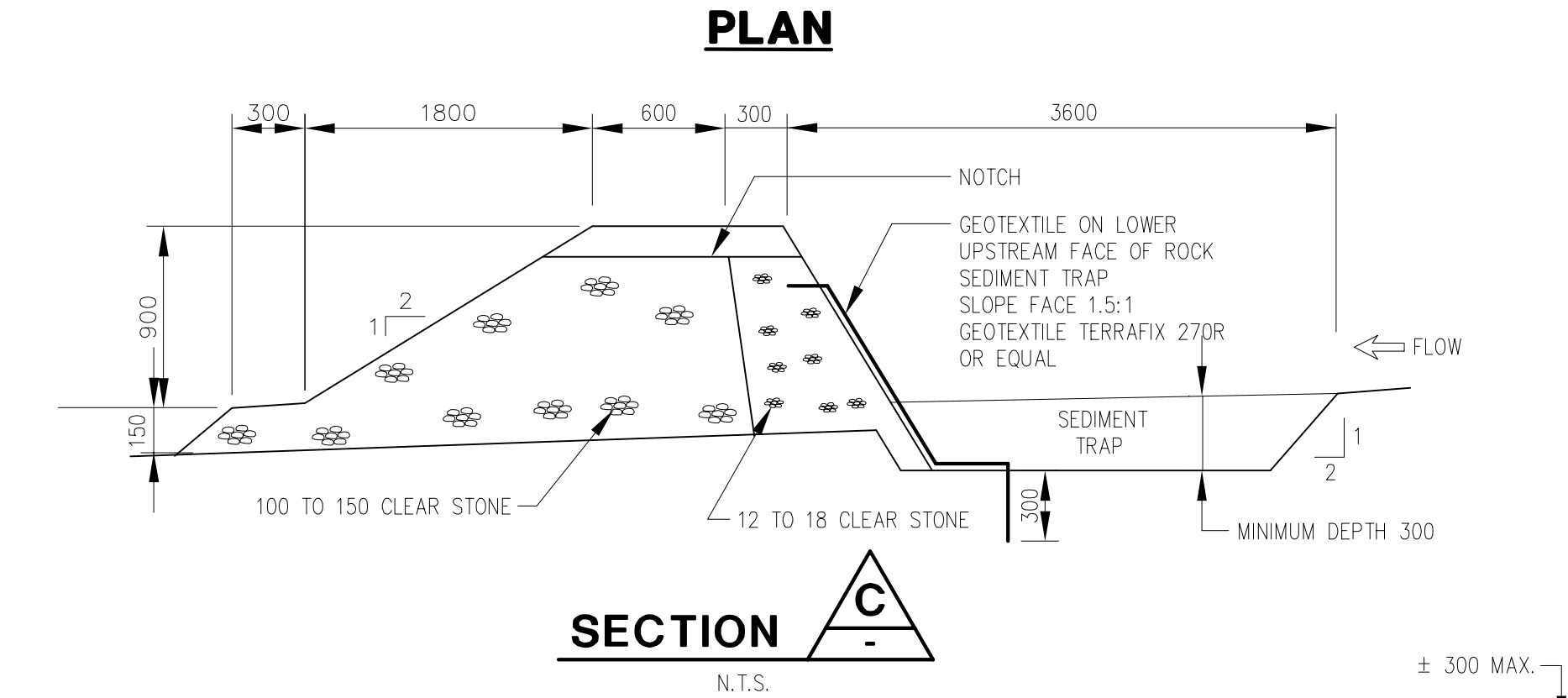
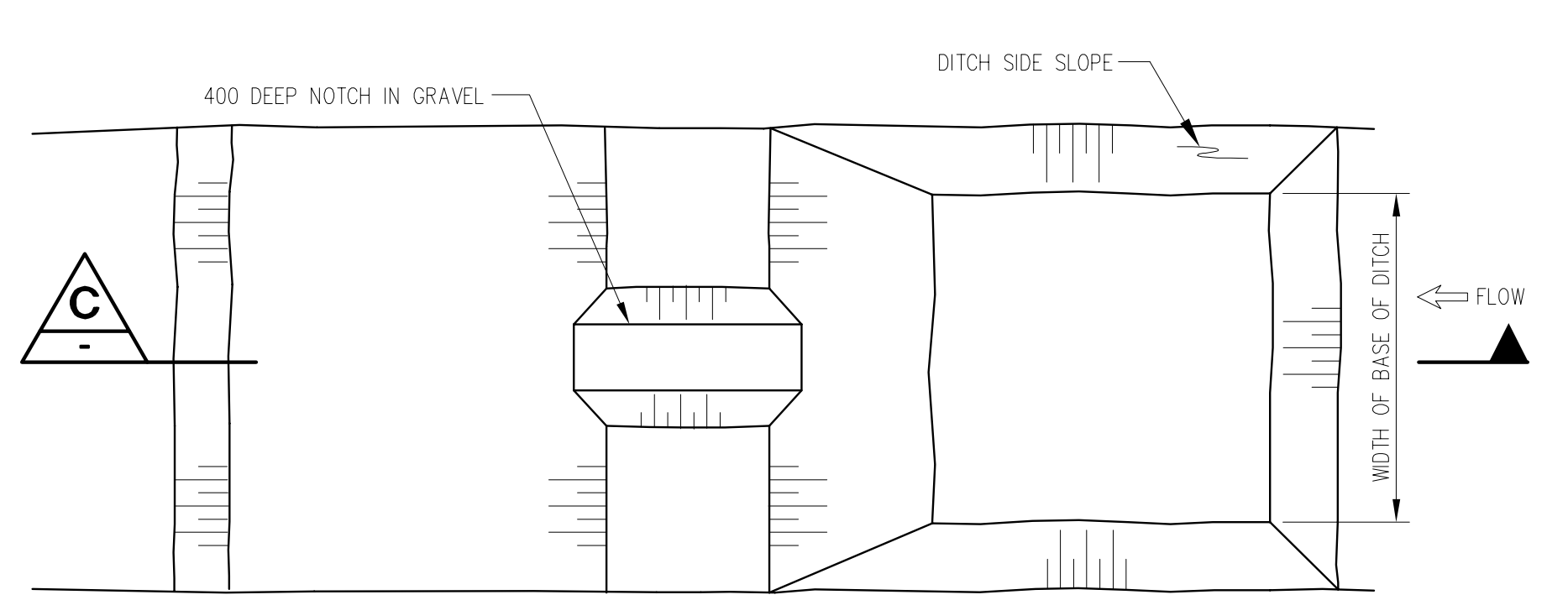
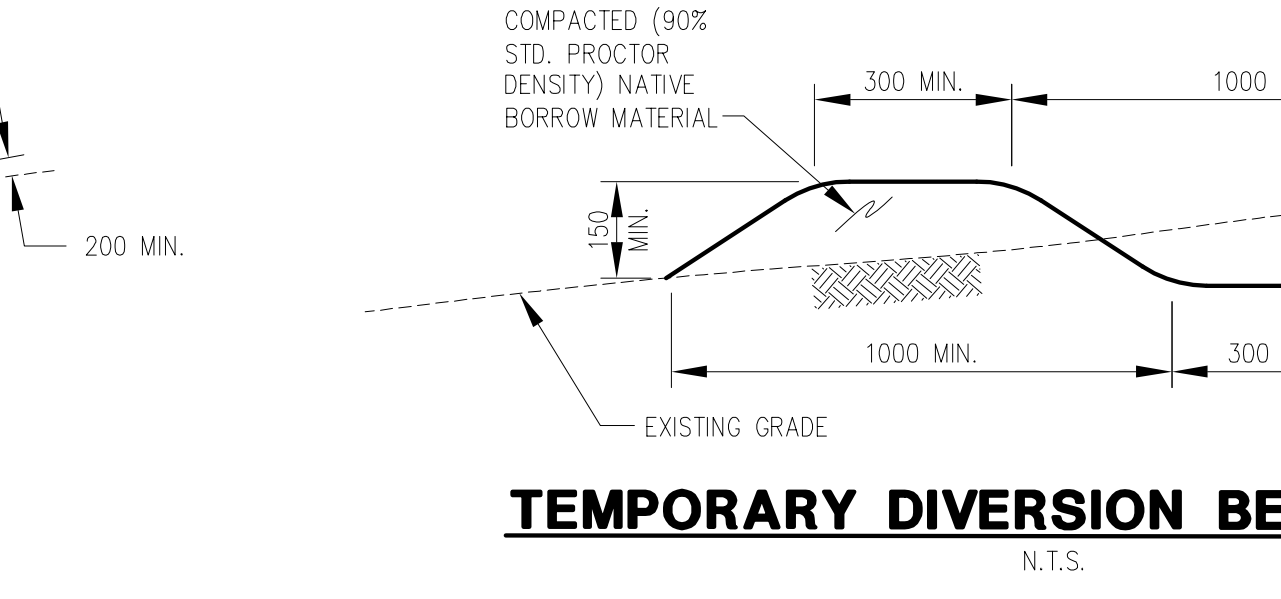
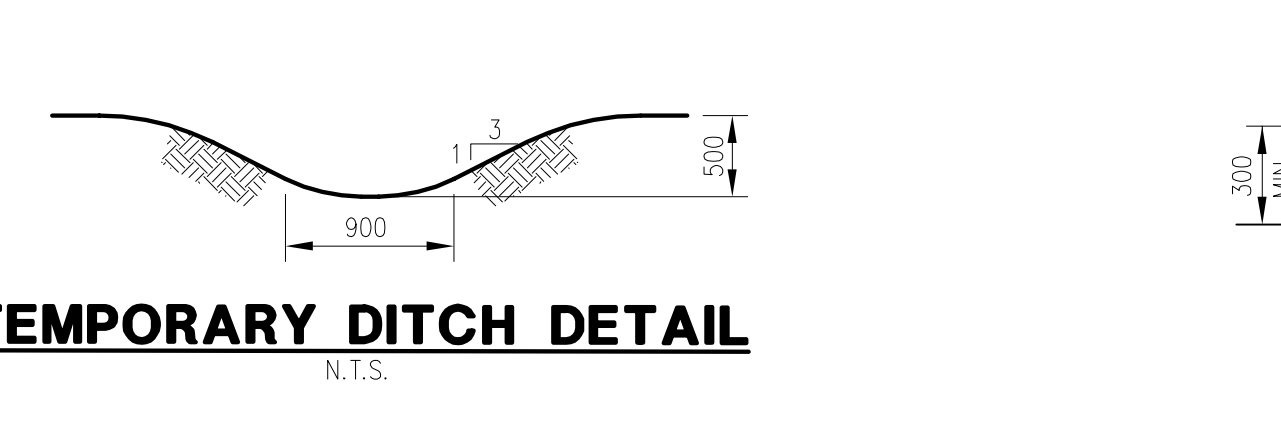
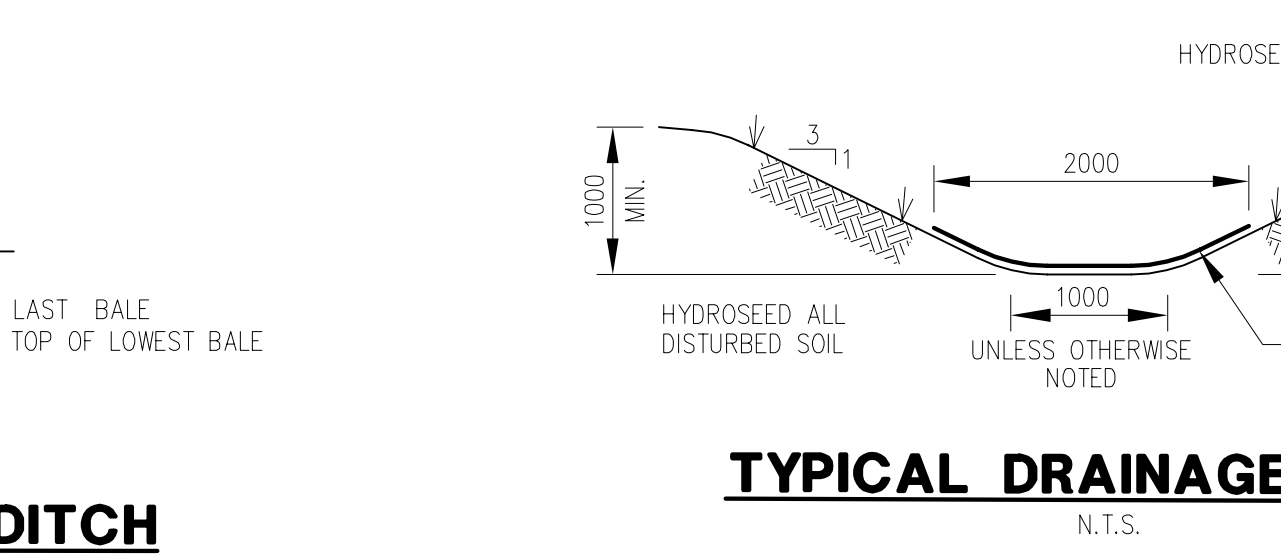
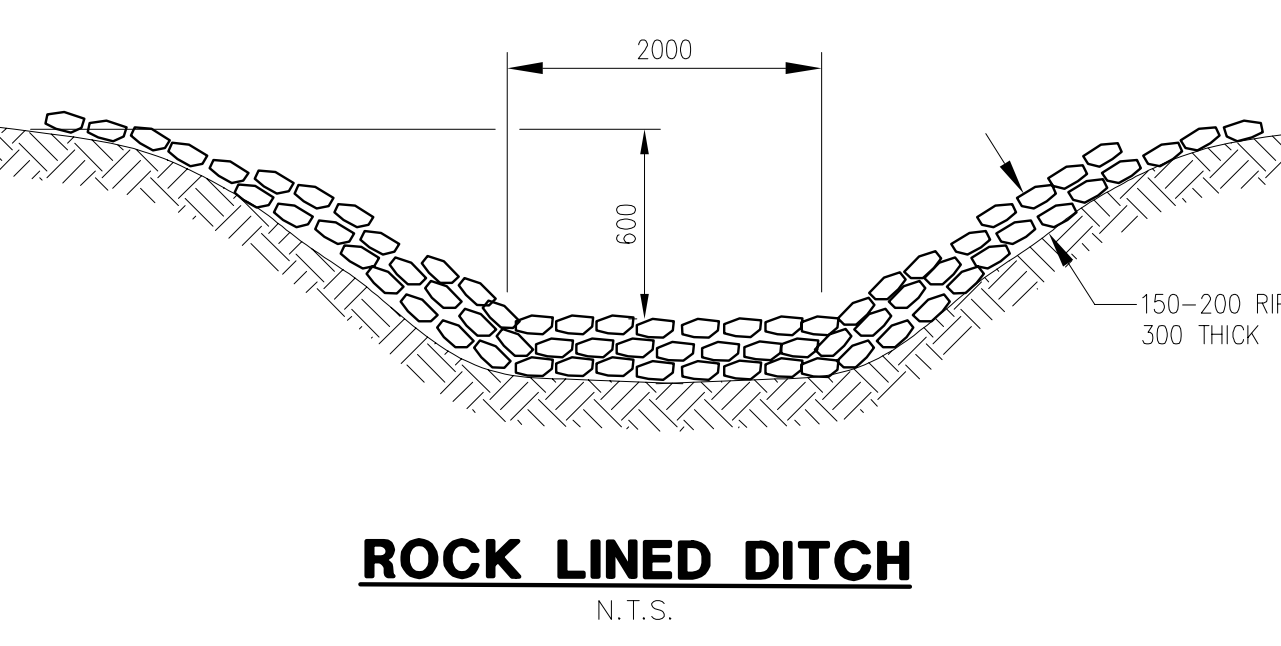
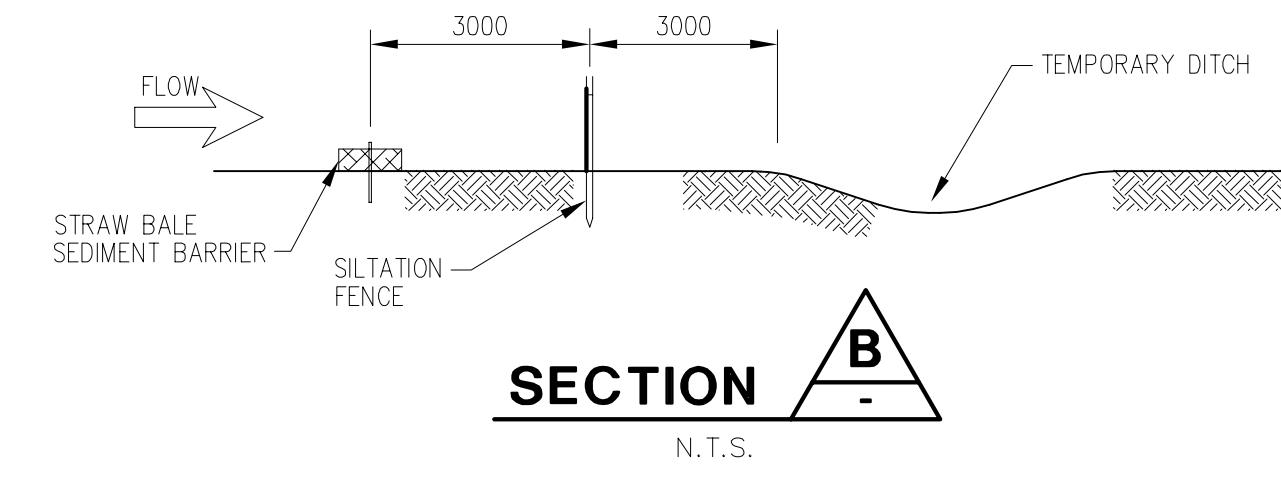
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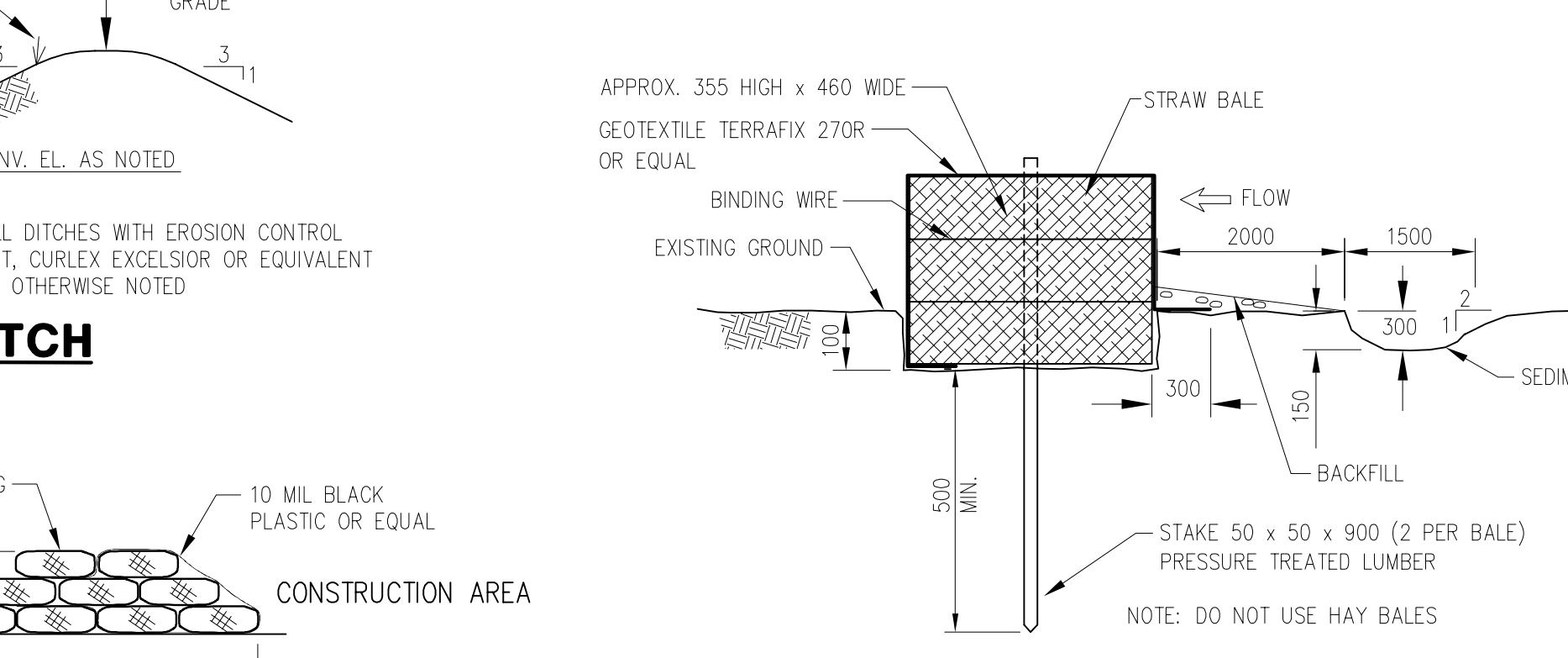
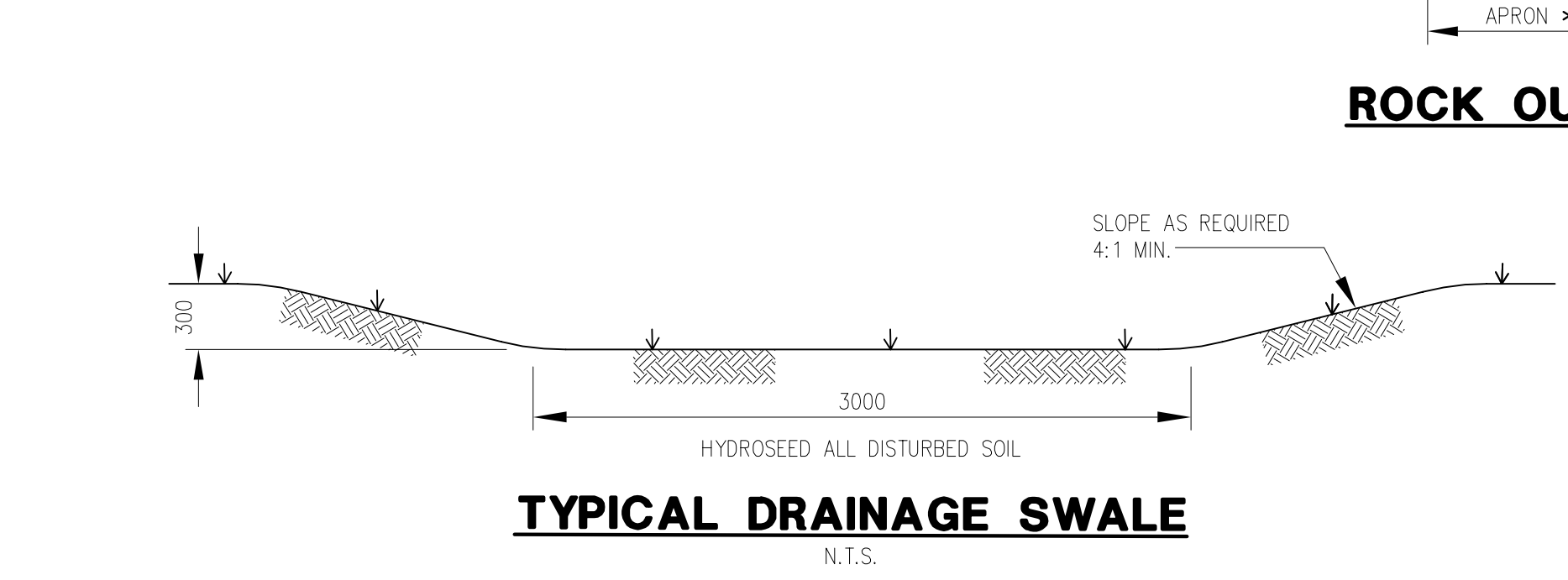
TYPICAL CONSTRUCTION SEDIMENTATION BASIN
N.T.S.



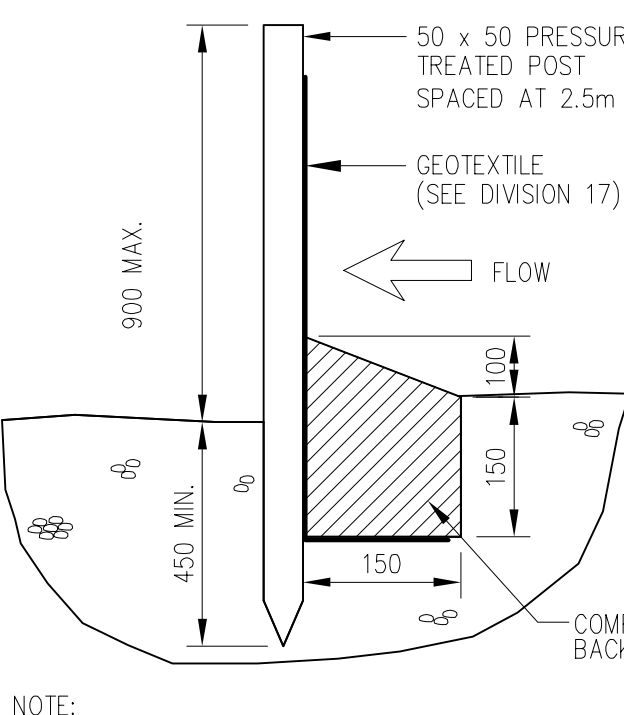
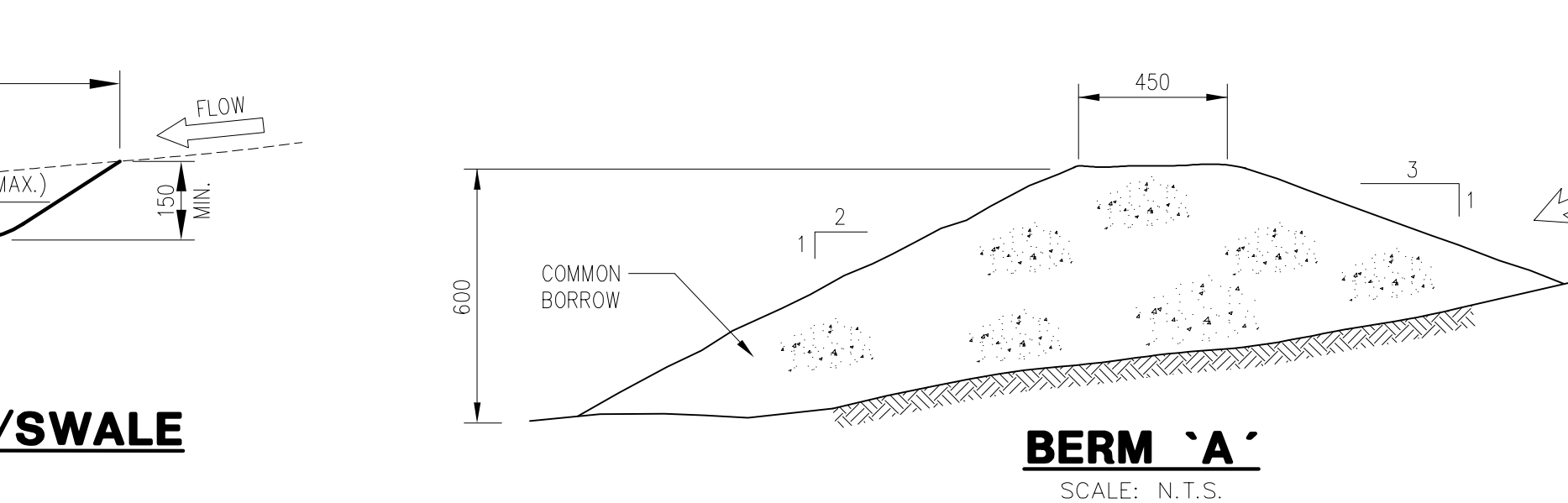
TYPICAL LAYOUT OF COMPONENTS TO CONTROL SITE RUNOFF
N.T.S.



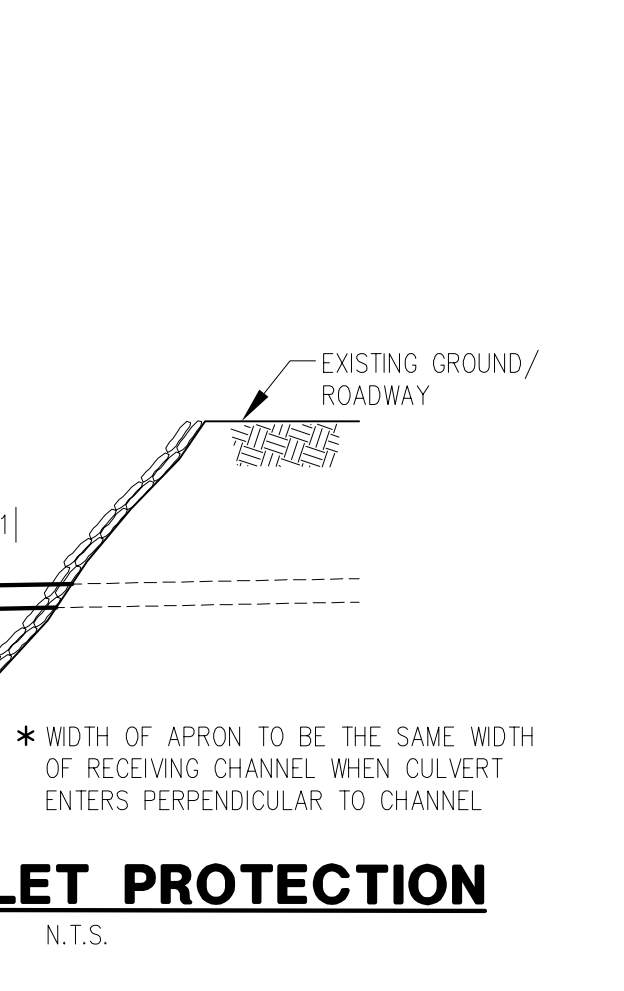
ROCK AND GEOTEXTILE SEDIMENT TRAP
N.T.S.



STRAW BALE SEDIMENT BARRIER
N.T.S.



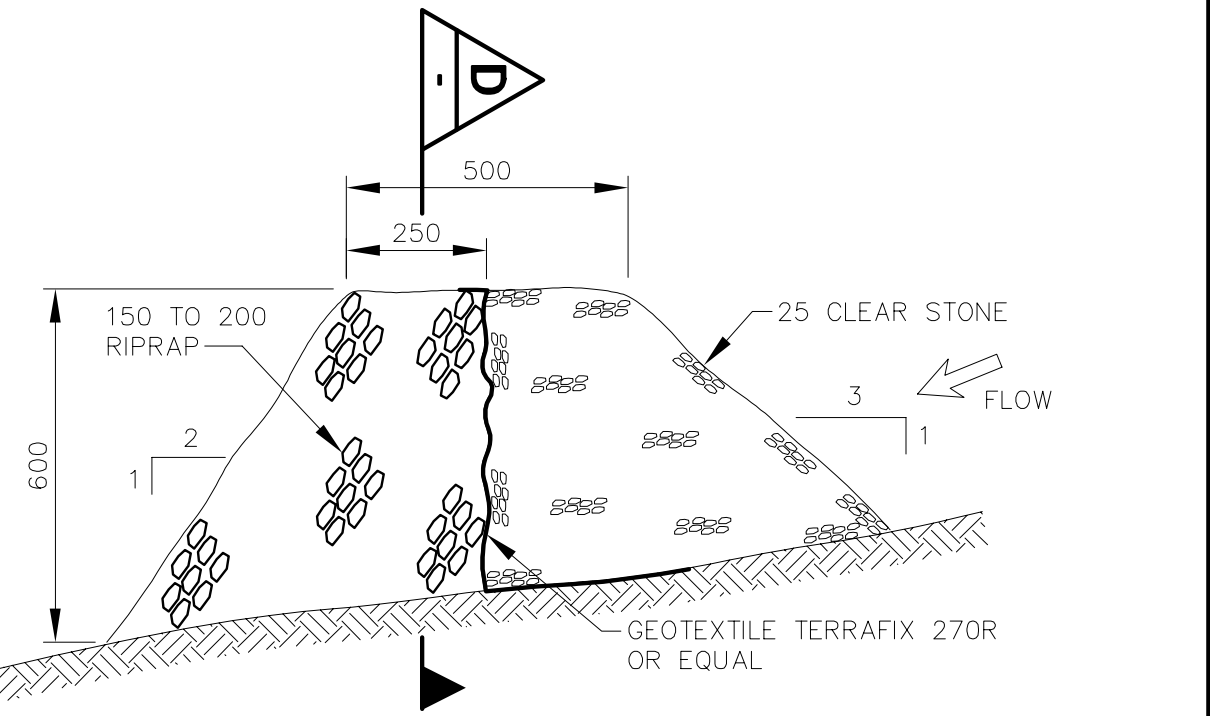
SILTATION FENCING
N.T.S.



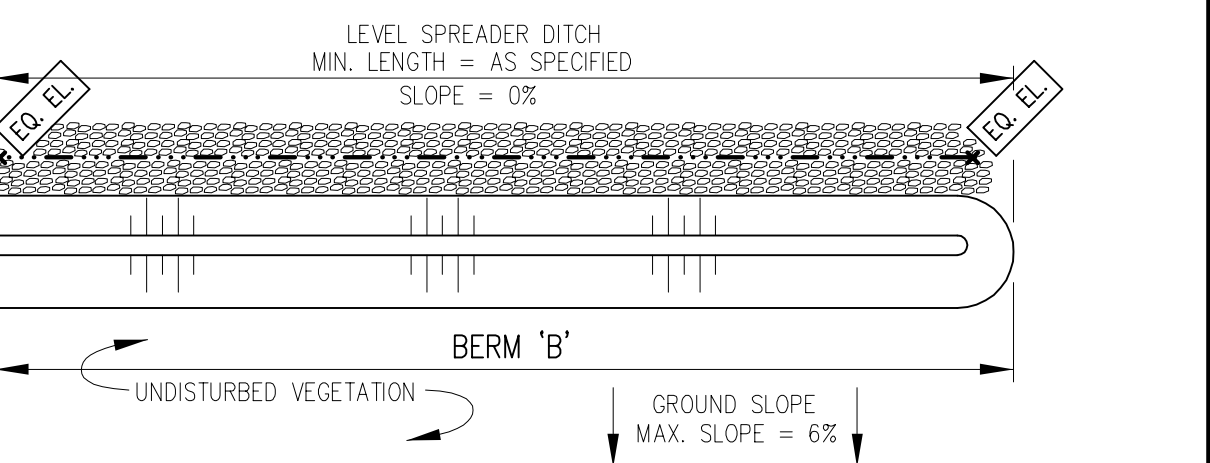
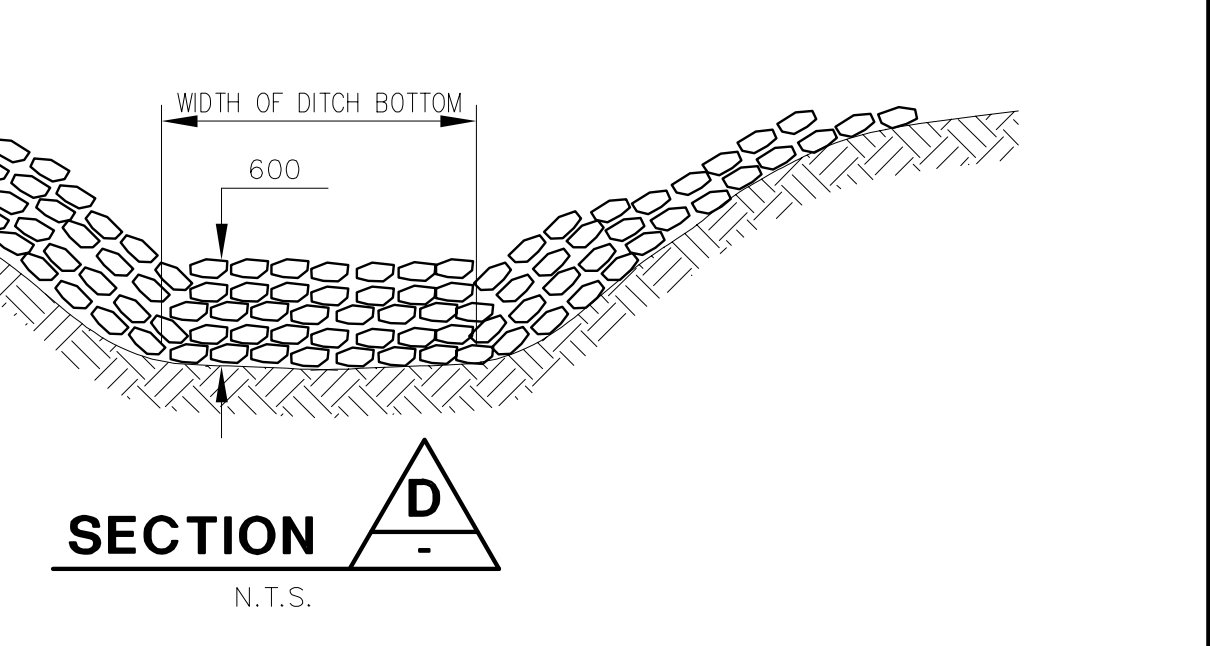
ROCK OUTLET PROTECTION
N.T.S.

- NOTES:**
1. ALL WORK ON SITE SHALL CONFORM TO THE PRINCIPLES AND PRACTICES OF THE NOVA SCOTIA DEPARTMENT OF THE ENVIRONMENT, "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES".
 2. SEDIMENTATION/EROSION CONTROL MEASURES SHOWN ON THE PLAN ARE MINIMUM. CONTRACTOR TO CARRY OUT OTHER CONTROL MEASURES AS REQUIRED ACCORDING TO No.1 AND AS DIRECTED BY THE ENGINEER.
 3. DISTURBED AREAS TO BE MULCHED WITH STRAW AND/OR HYDROSEED AND/OR COVERED WITH EROSION CONTROL MAT AS DIRECTED BY THE ENGINEER.
 4. SEDIMENTATION CONTROL FEATURES TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.
 5. CONSTRUCTION SEQUENCE TO BE AS FOLLOWS:
 1. SILTATION FENCE/STRAW BALE BARRIERS
 2. DITCHING
 3. SEDIMENT TRAPS
 4. SEDIMENTATION BASIN
 5. TEMPORARY DITCHES
 6. MATERIAL REQUIRED TO BE STORED ON SITE DURING CONSTRUCTION.
 1. 30m SILTATION FENCE
 2. 10 STRAW BALES
 3. 1 ROLL GEOTEXTILE (TERRAFIX 270R OR EQUAL)
 4. 5 CUBIC METRES CLASS "B" GRANULAR MATERIAL
 5. FILTER BAGS FOR DEWATERING OPERATIONS, EXACT SIZE OF BAG TO BE DETERMINED AT TIME OF DEWATERING

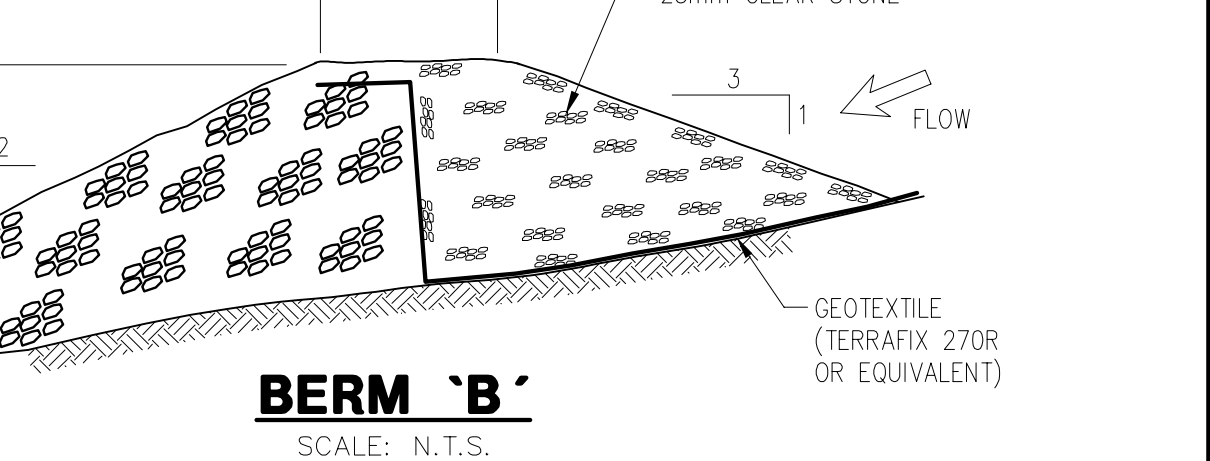
CULVERT DIAMETER (mm)	LENGTH OF APRON	AVERAGE STONE SIZE (mm)	APRON THICKNESS (mm)
UP TO 1200	6 TIMES PIPE DIA.	150	300
1201 TO 2100	8 TIMES PIPE DIA.	300	450
2101 TO 3000	10 TIMES PIPE DIA.	600	750



STONE CHECK DAM
N.T.S.

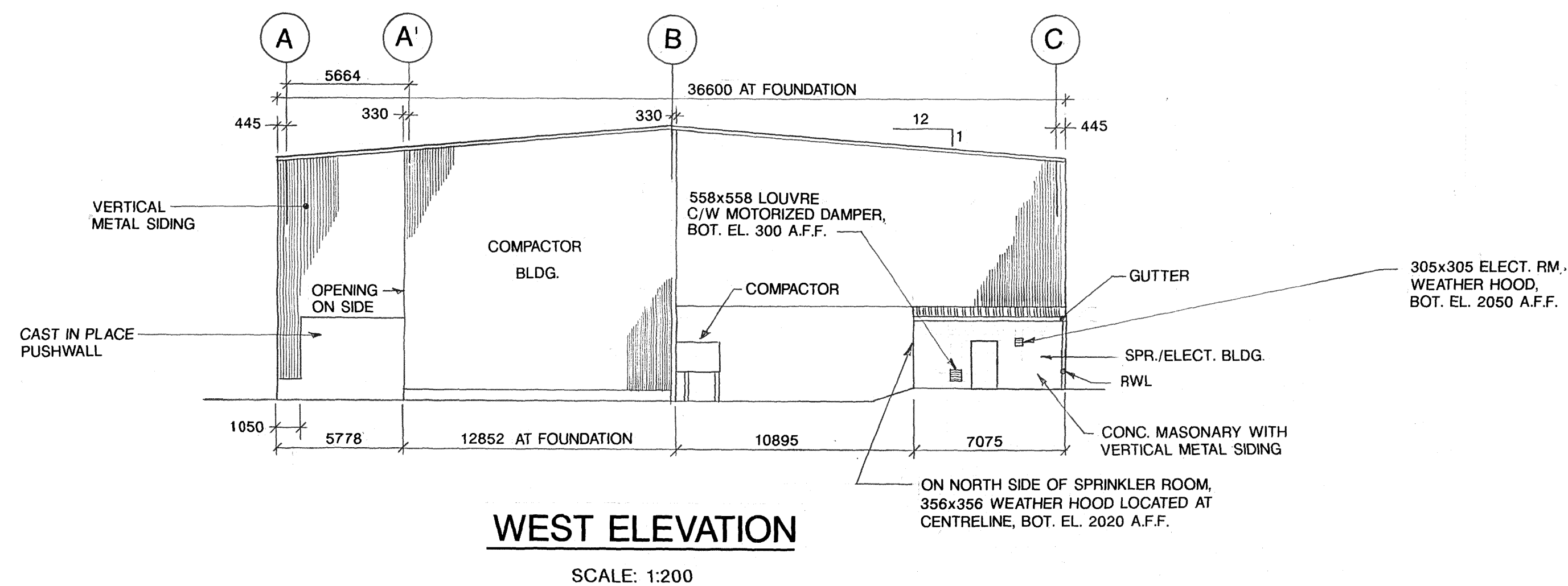
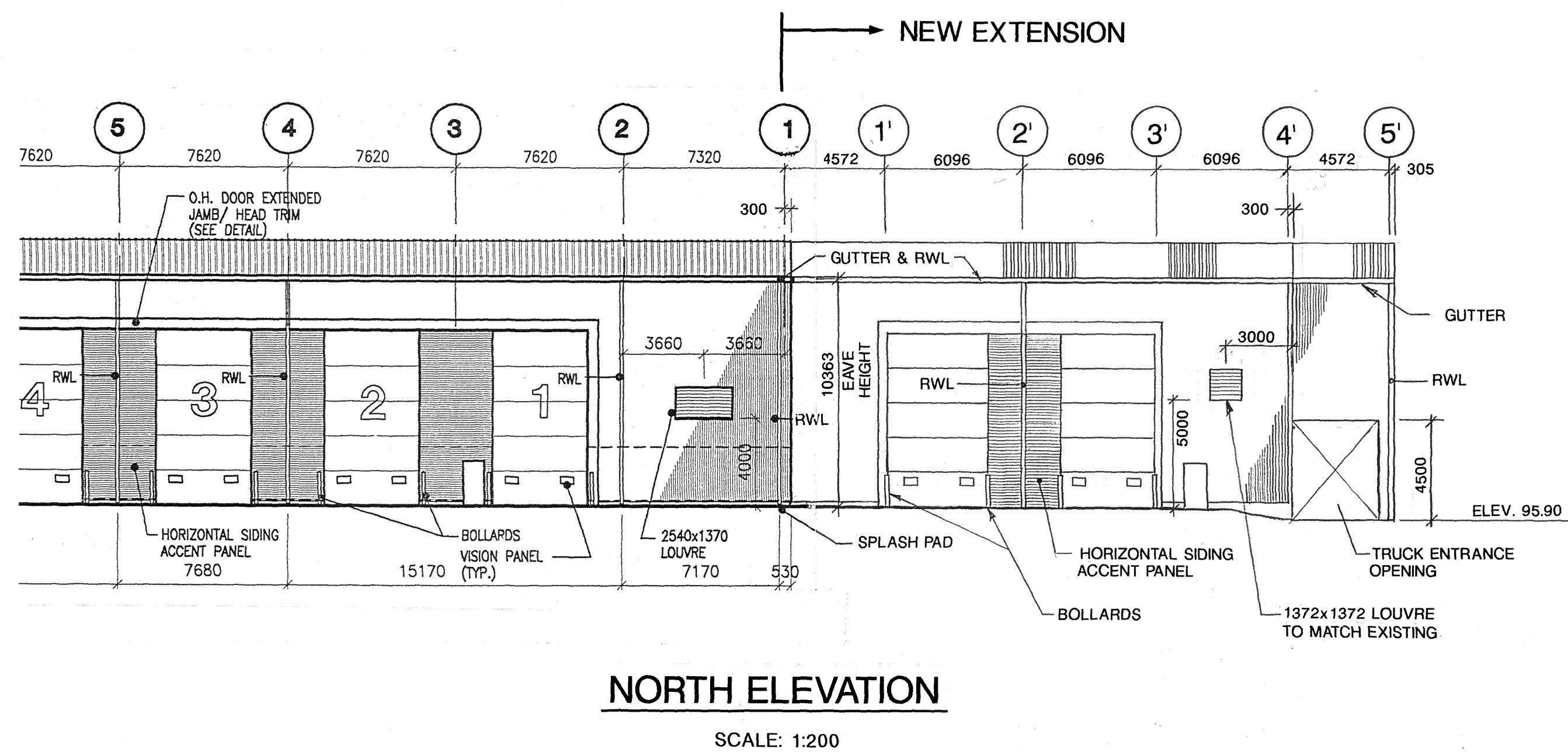
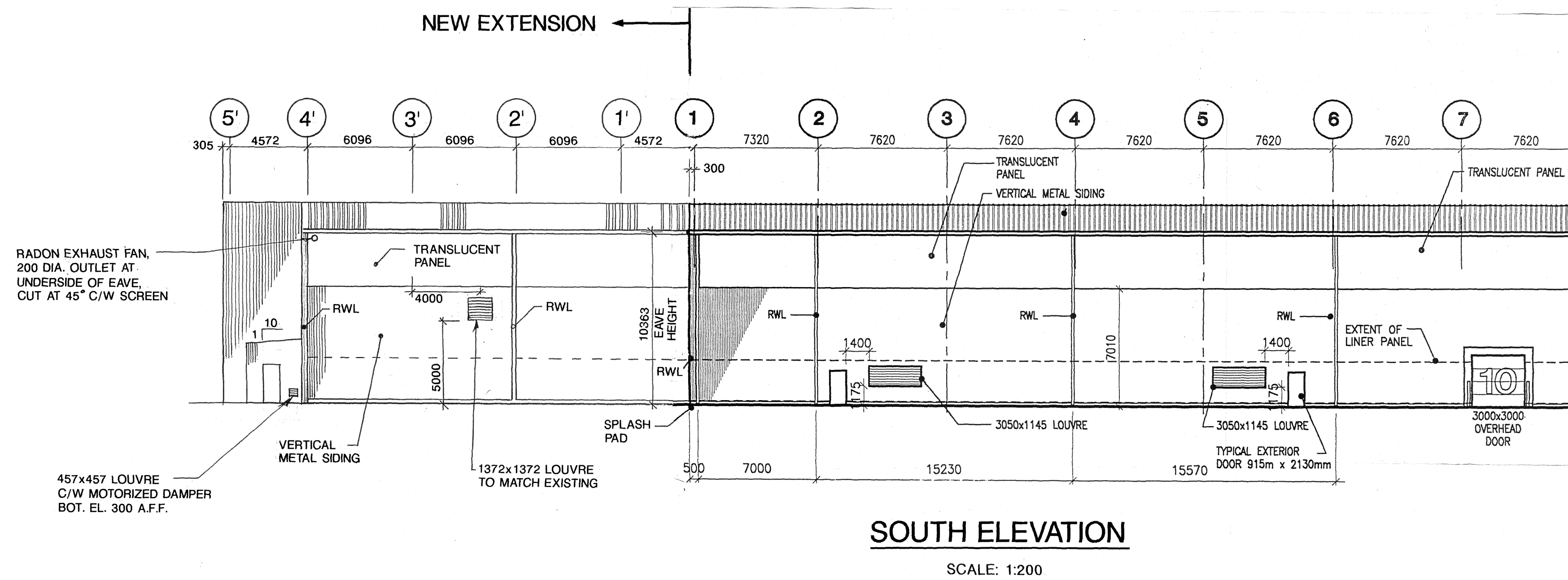


LEVEL SPREADER
N.T.S.



PRE-ENGINEERED BUILDING NOTE

1. THE NEW EXTENSION TO THE EXISTING FEP BUILDING SHALL HAVE CHARACTERISTICS AND CONSTRUCTION DETAILS THAT MATCH THE EXISTING BUILDING AS INDICATED ON THE ARCHITECTURAL DRAWINGS FOR THE EXISTING FEP BUILDING. THESE ARCHITECTURAL DRAWINGS ARE INCLUDED FOR REFERENCE.



MIRROR NS

DILLON
CONSULTING

				DESIGN	S.A.M.
				DRAWN	T.W.
				CHECKED	S.A.M.
2	ISSUED FOR CONSTRUCTION		00/02/23	SAM	APPROVED C.R.S.
1	ISSUED FOR BUILDING ORDER ONLY		00/01/14	SAM	DATE JAN. 2000
NO.	REVISIONS	DATE	BY	SCALE	AS NOTED

OTTER LAKE WASTE MANAGEMENT FACILITY
FEP BUILDING EXTENSION

BUILDING ELEVATIONS

PROJECT NO.
99-7137

SHEET NO.
A-1

OF
1

G:\CAD\997137\7137A002 20000823.1137

PRINT RECORD

NO.	FOR	DATE

ORIGINAL ISSUED FOR
CONSTRUCTION DRAWING
DATED MAR. 23, 2000 WAS
STAMPED AND SIGNED BY
S.A. MALLETT, P.ENG.

MIRROR NS



5	RECORD DRAWING	00/06/23	JAJ	DESIGN	S.A.M.
4	ISSUED FOR CONSTRUCTION	00/03/23	SAM	DRAWN	G.A.L./E.C.B.
3	ISSUED FOR REVIEW	00/02/08	SAM	CHECKED	—
2	ADDED PUSHWALL ON LINE C	00/01/06	SAM	APPROVED	—
1	ISSUED FOR BUILDING ORDER ONLY	00/01/05	SAM	DATE	DEC. 1999
NO.	REVISIONS	DATE	BY	SCALE	AS NOTED

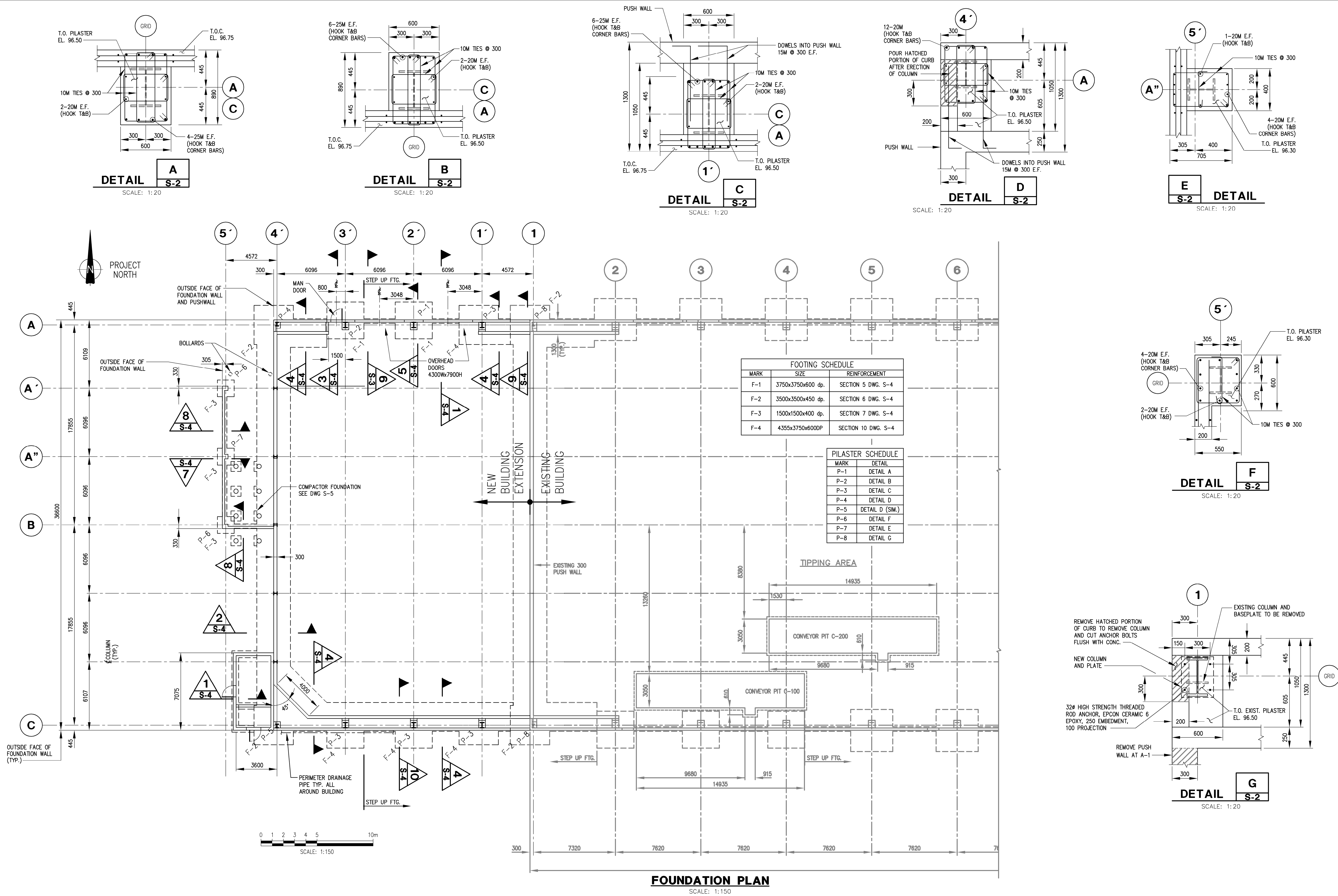
OTTER LAKE WASTE MANAGEMENT FACILITY
FEP BUILDING EXTENSION

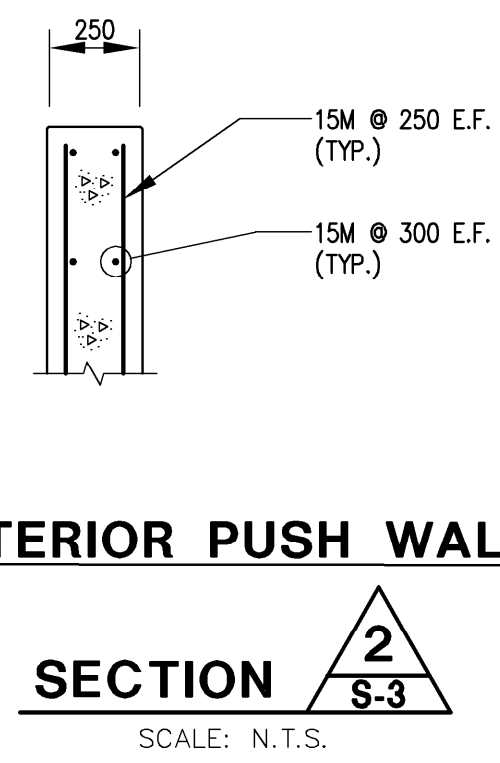
PROJECT NO.
99-7137

FEP FOUNDATION PLAN

SHEET NO.
S-2

OF
5



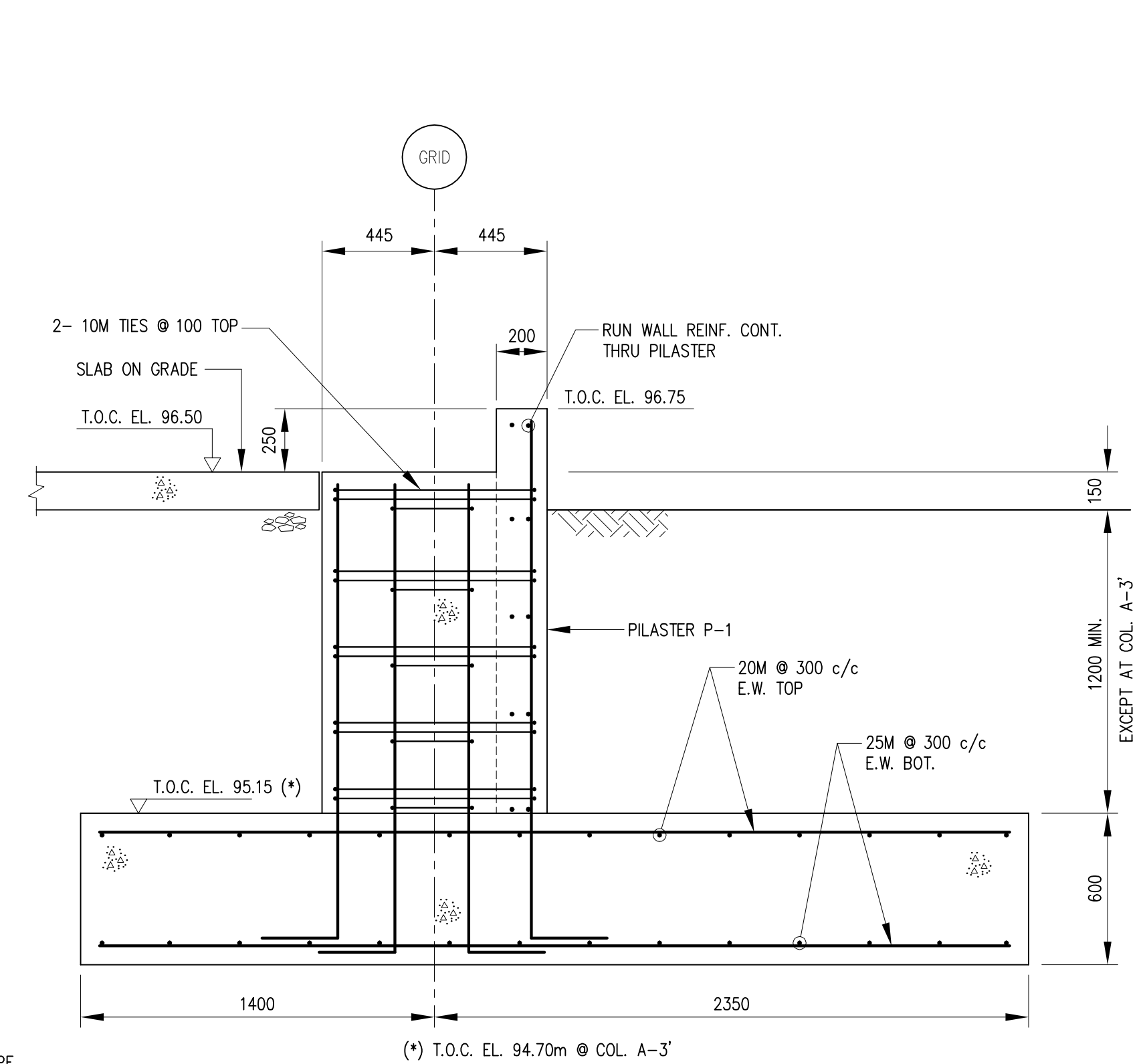
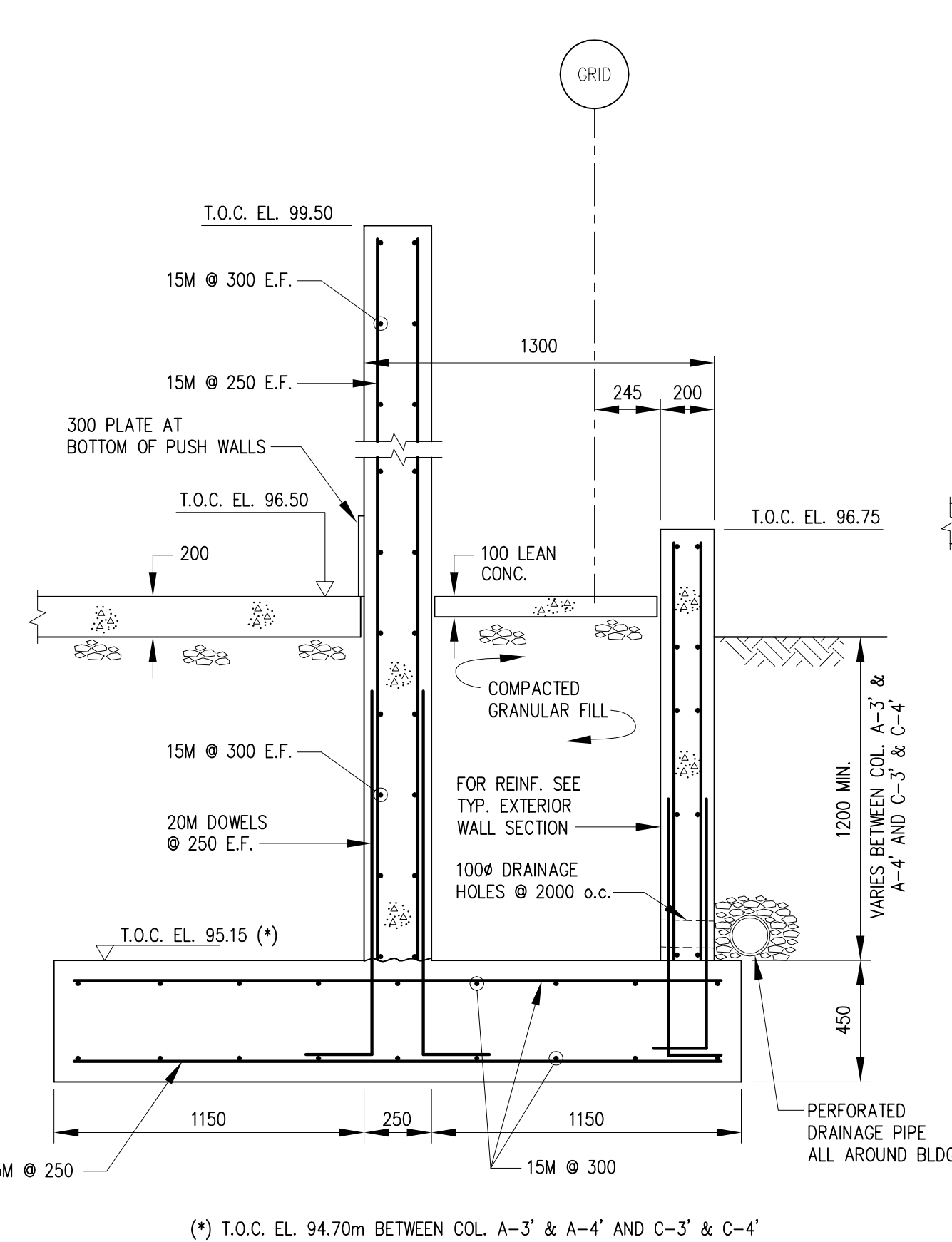
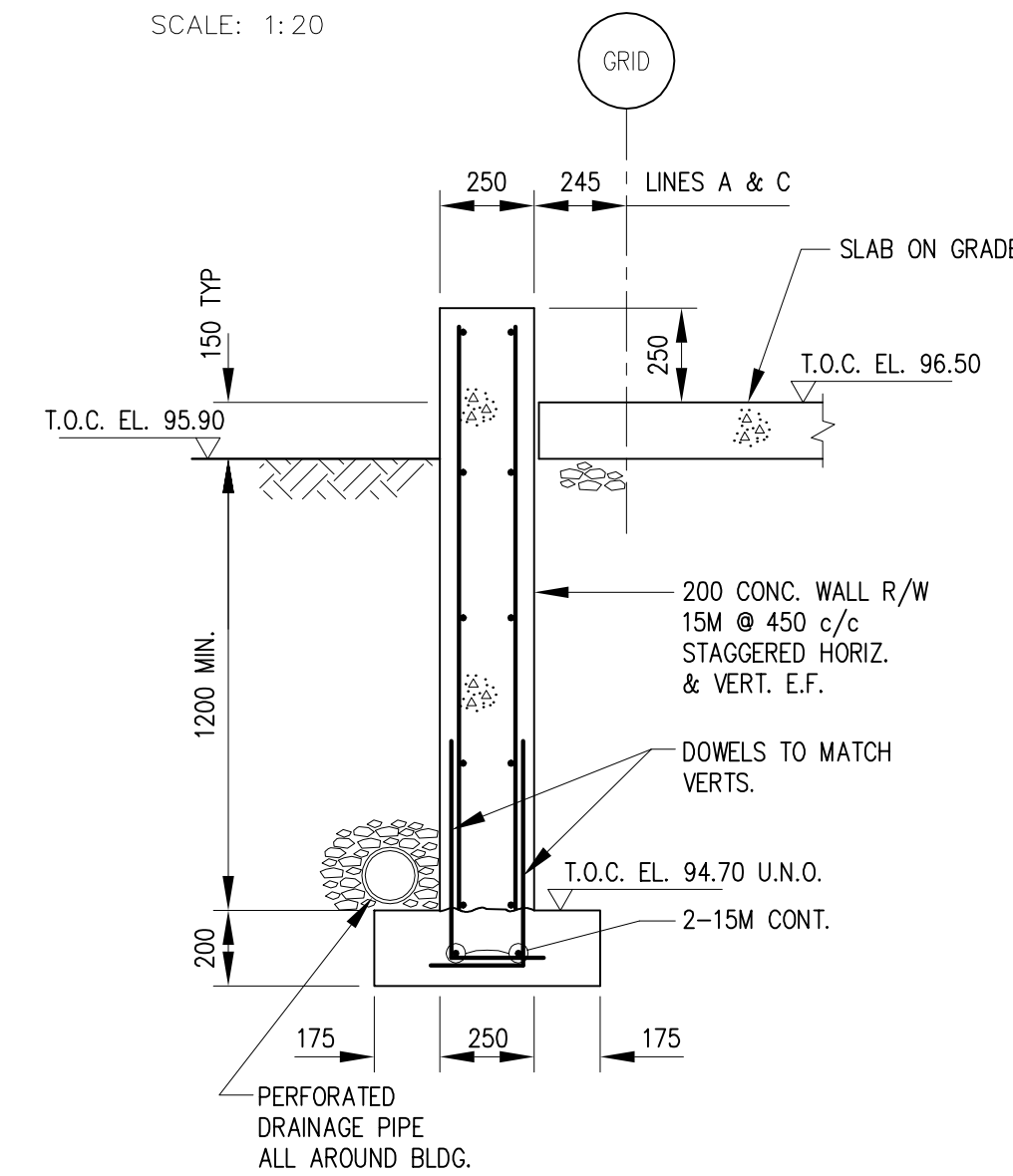
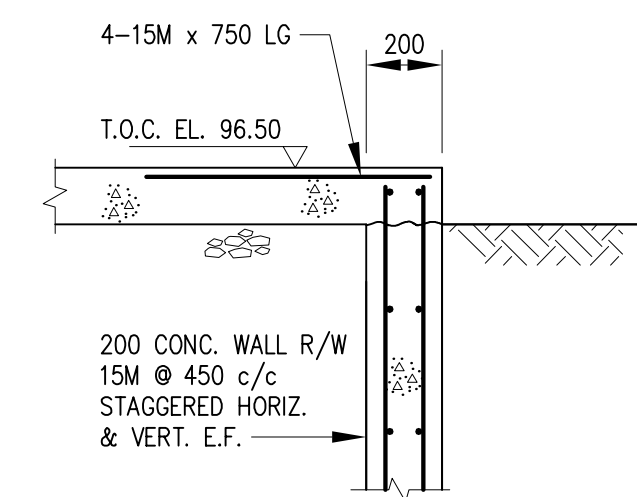
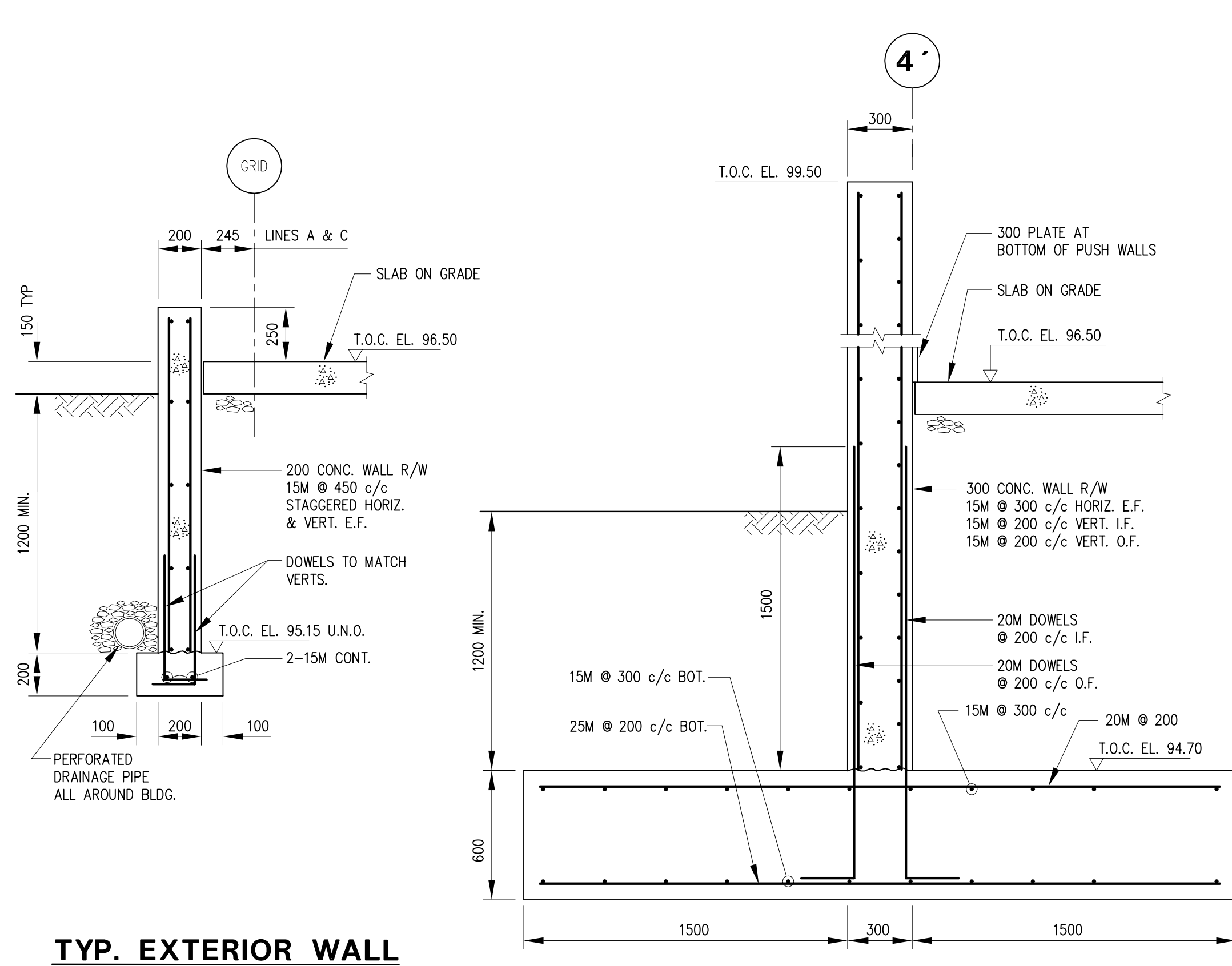


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CONSTRUCTION DRAWING
DATED MAR. 23, 2000 WAS
STAMPED AND SIGNED BY
S.A. MALLETT, P.ENG.



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CONSULTING

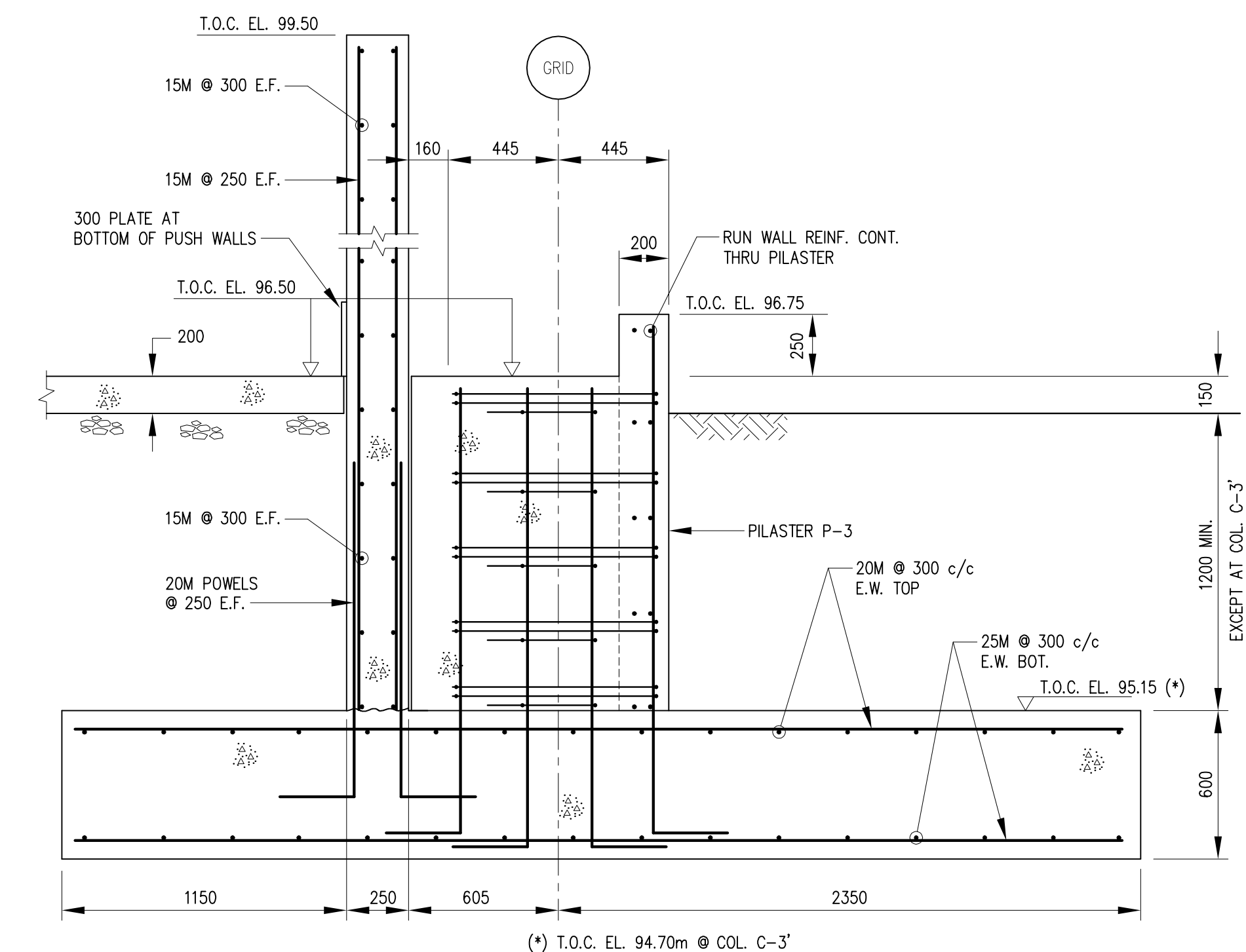
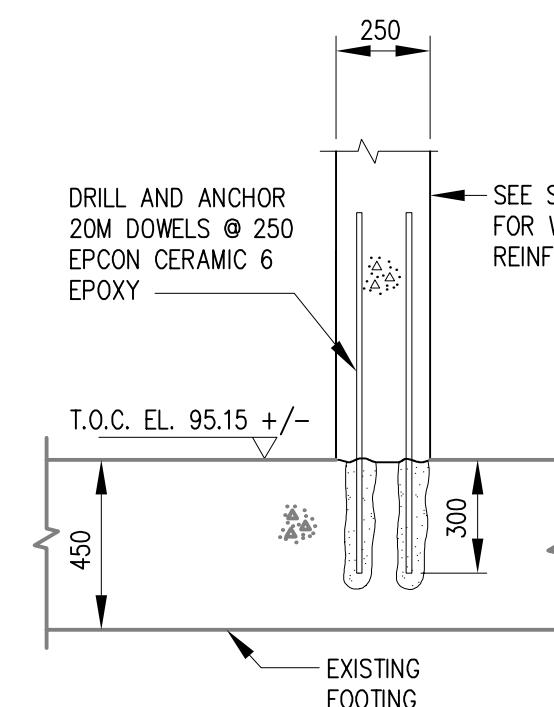
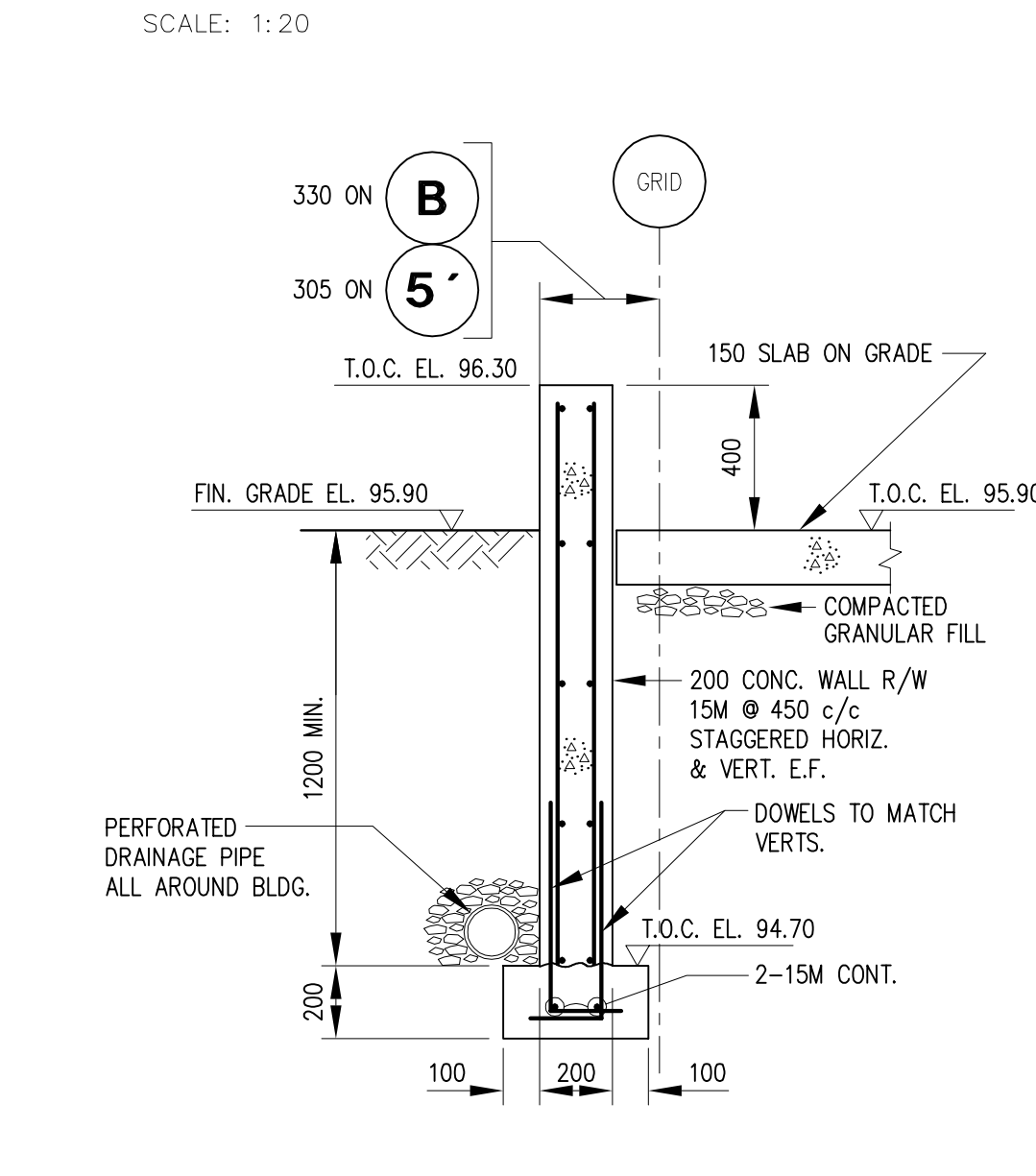
OTTER LAKE WASTE MANAGEMENT FACILITY FEP BUILDING EXTENSION	PROJECT NO. 99-7137
FEP SLAB-ON-GRADE PLAN	SHEET NO. S-3
	OF 5



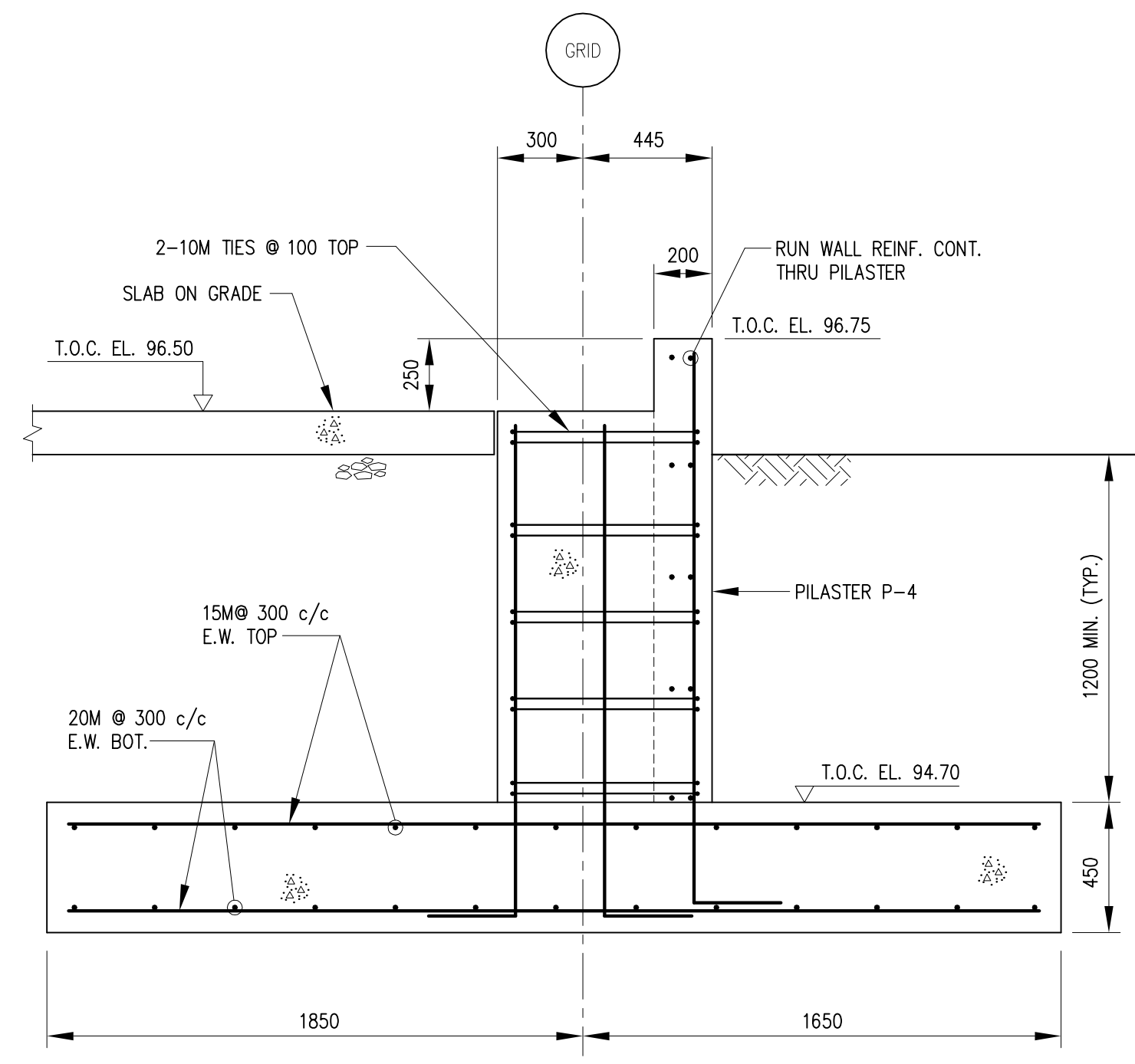
FOOTING TYPE F-1



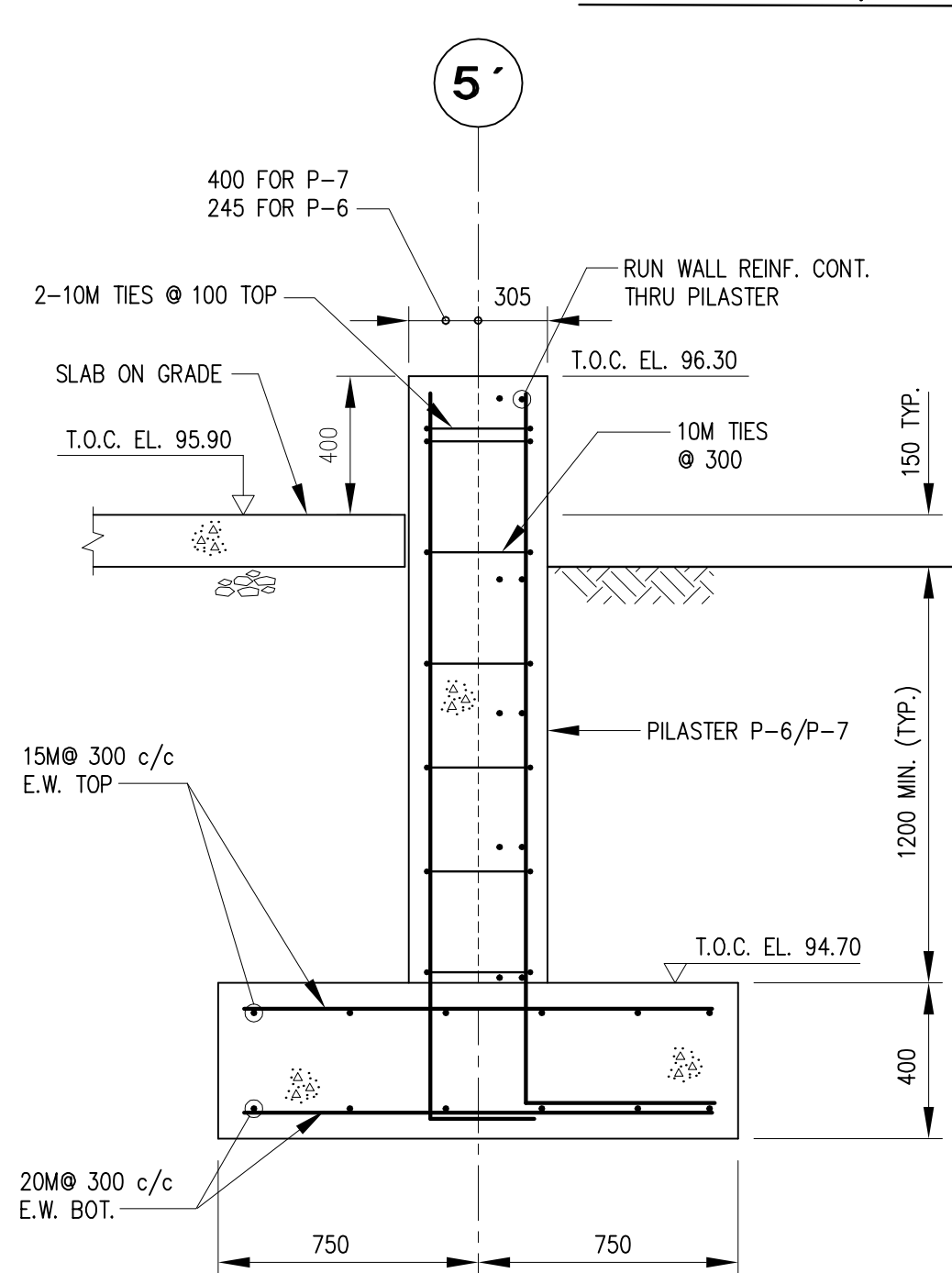
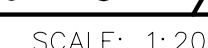
SPRINKLER/ELECTRICAL BUILDING FOUNDATION



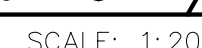
FOOTING TYPE F-4



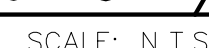
FOOTING TYPE F-2



FOOTING TYPE F-3

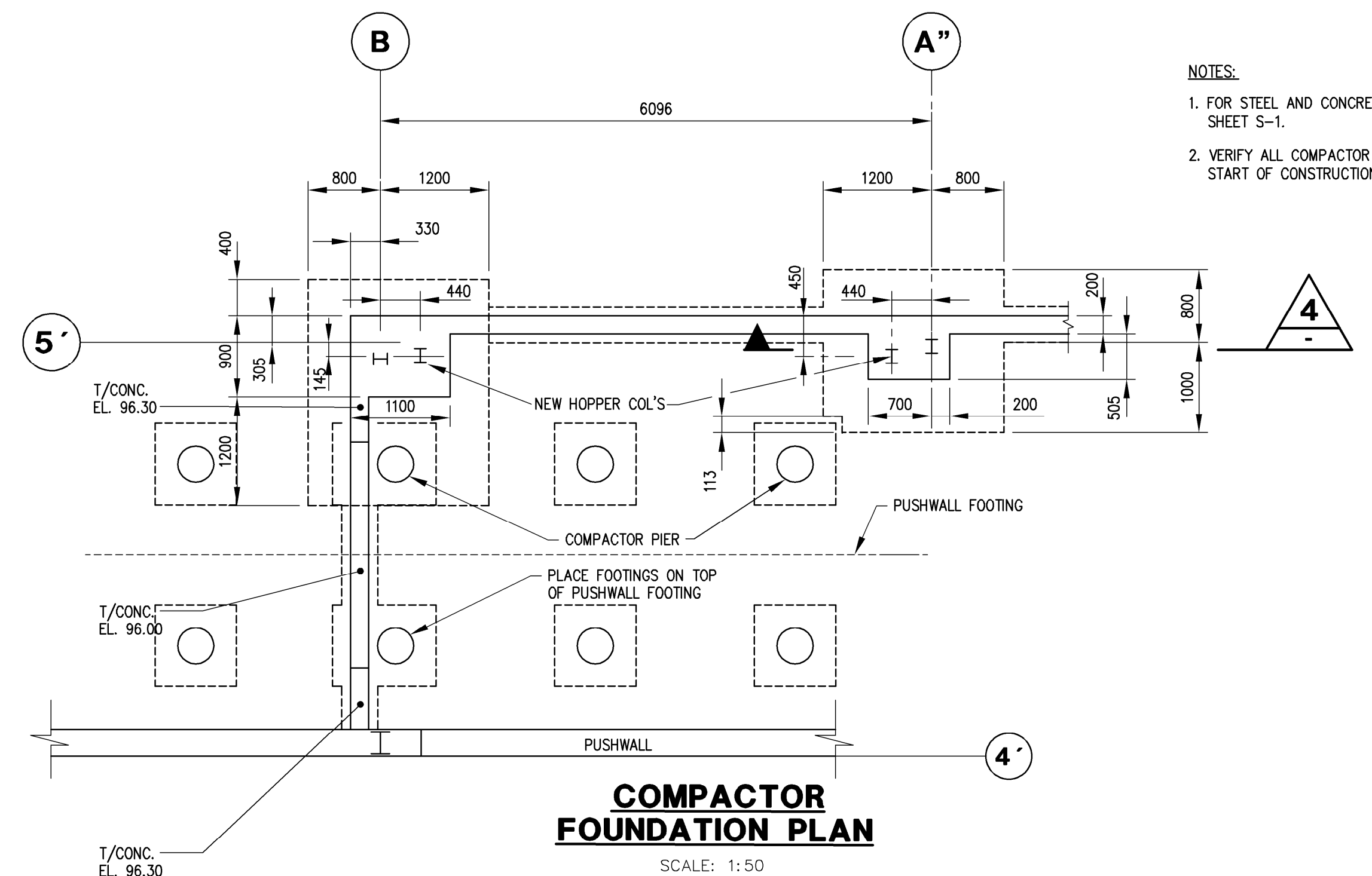


COMPACTOR BUILDING FOUNDATION



				DESIGN	S.A.M.
4	RECORD DRAWING	00/06/23	JAJ	DRAWN	G.A.L./E.C.
3	ISSUED FOR CONSTRUCTION	00/03/23	SAM	CHECKED	—
2	ISSUED FOR REVIEW	00/02/08	SAM	APPROVED	—
1	ISSUED FOR BUILDING ORDER ONLY	00/01/05	SAM	DATE	DEC. 1999
NO.	REVISIONS	DATE	BY	SCALE	A5 NOTE

OTTER LAKE WASTE MANAGEMENT FACILITY FEP BUILDING EXTENSION		PROJECT NO. 99-7137
B.	SECTIONS AND DETAILS	SHEET NO. S-4
		OF 5



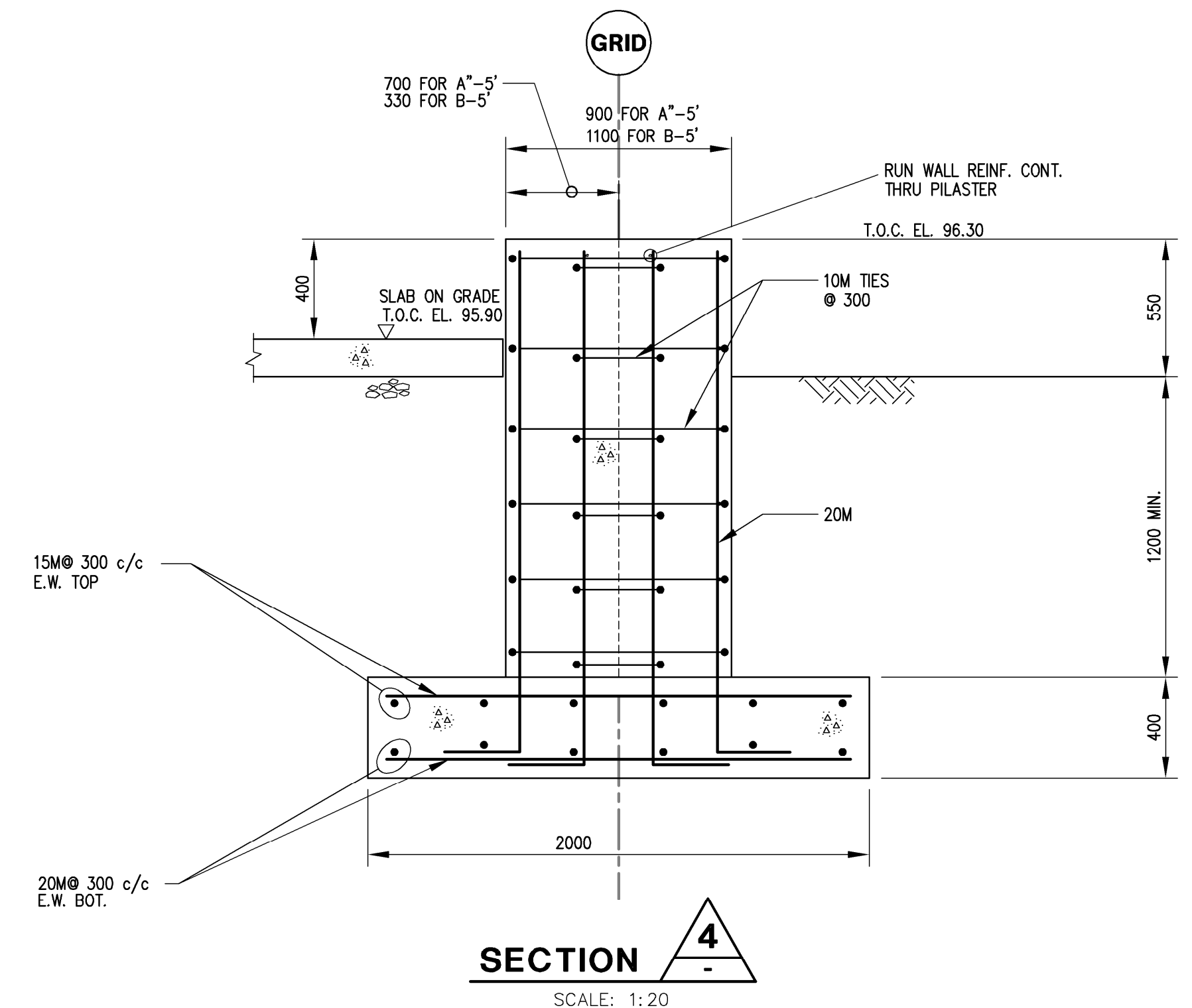
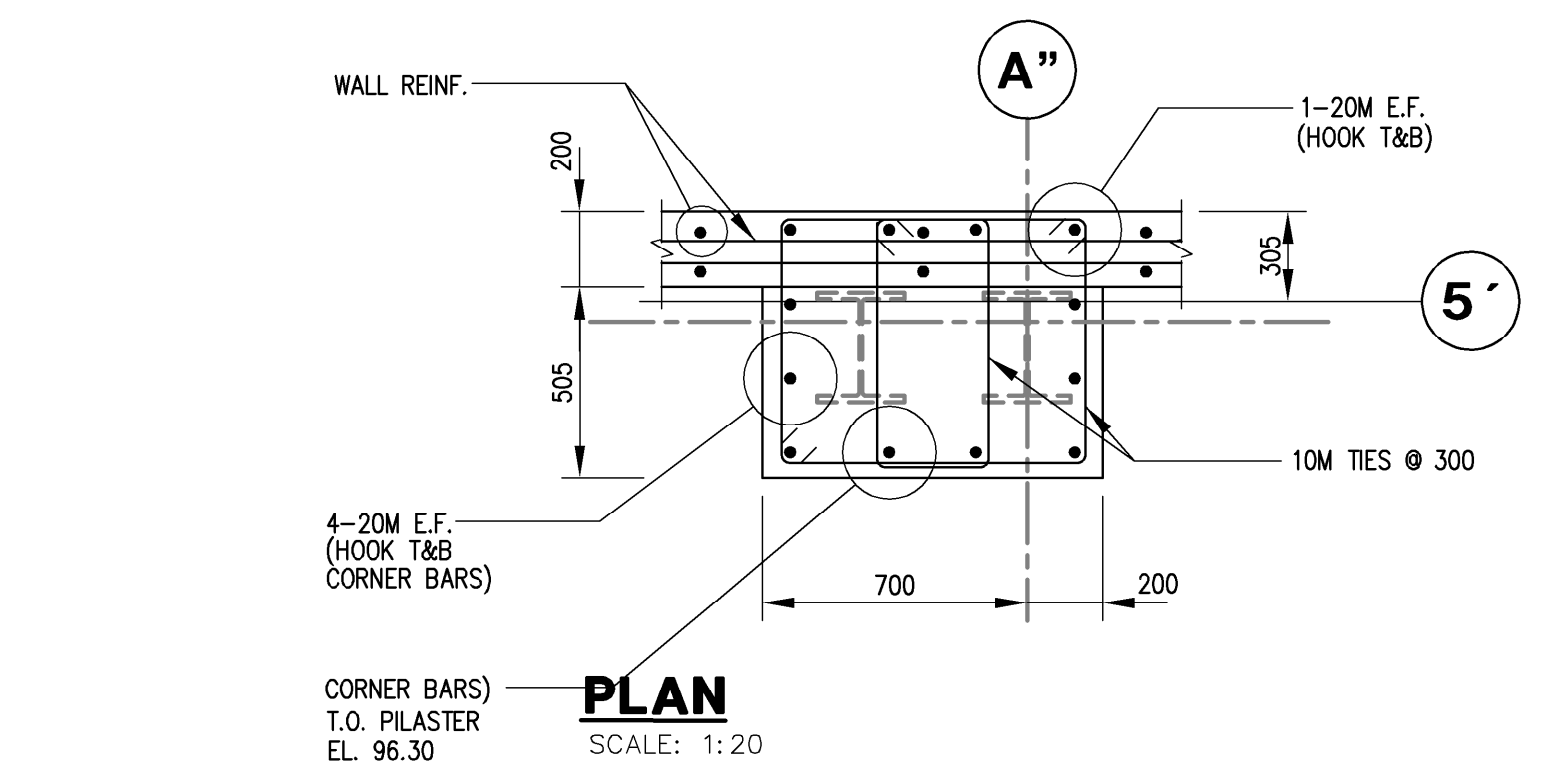
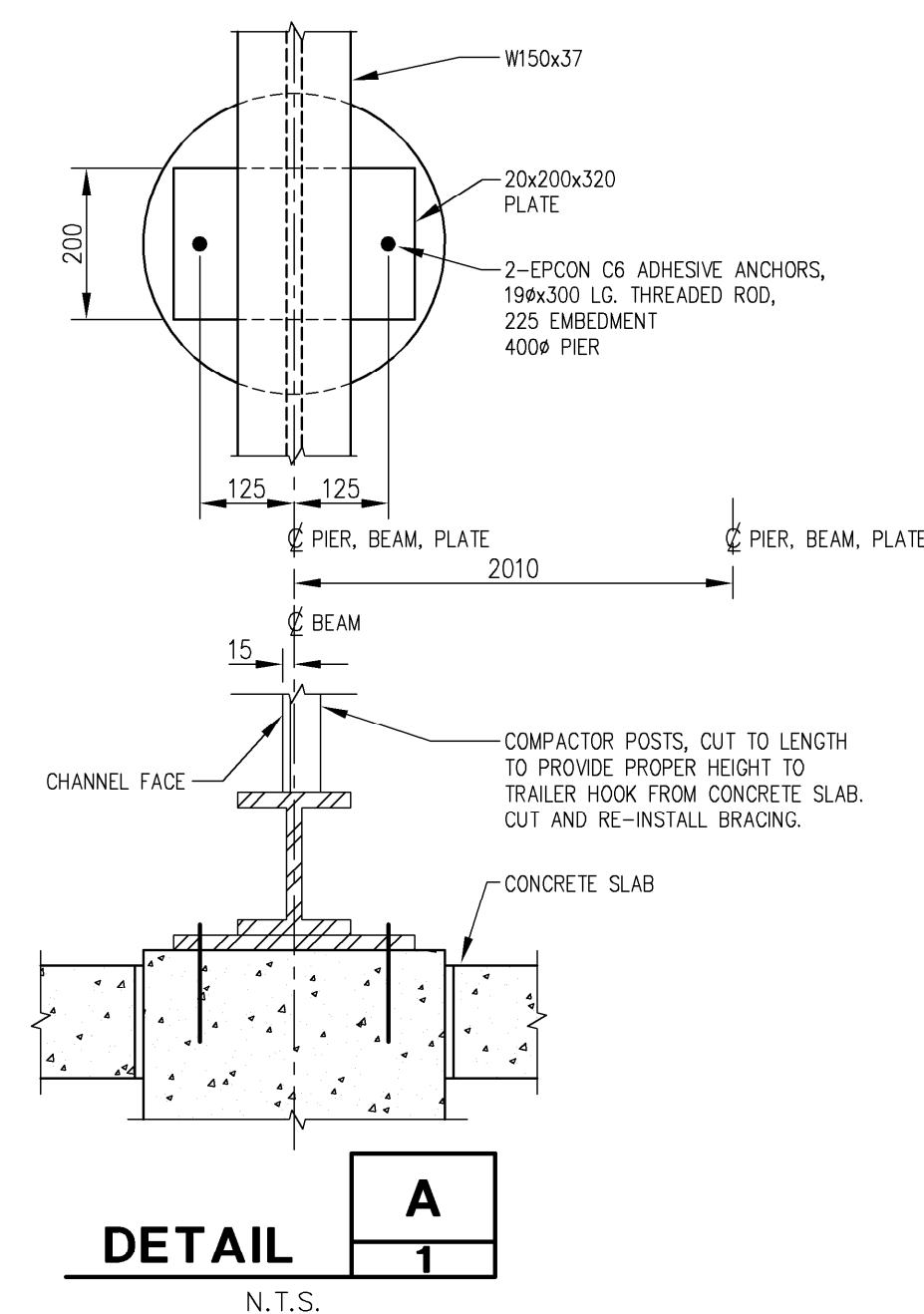
NOTES:

1. FOR STEEL AND CONCRETE NOTES REFER TO SHEET S-1.
2. VERIFY ALL COMPACTOR DIMENSIONS PRIOR TO START OF CONSTRUCTION.



NOTES:

1. VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS OF PIERS, COMPACTOR AND CONCRETE SLAB PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. CRITICAL HEIGHT DIMENSION IS FOR TOP OF COMPACTOR TRAILER HOOK TO TOP OF CONCRETE SLAB AT FRONT OF COMPACTOR.
3. CRITICAL COMPACTOR LOCATION IS TO MATCH FRONT OF HOPPER OPENING TO BUILDING WALL OPENING AS SHOWN ON PLAN ON DRAWING S-6.

20000623.1422[illegible]

ORIGINAL ISSUED FOR
CONSTRUCTION DRAWING
DATED MAR. 23, 2000 WAS
STAMPED AND SIGNED BY
S.A. MALLETT, P.ENG.

MIRROR NS



				DESIGN	S.A.M.
				DRAWN	T.L.R
3	RECORD DRAWING	00/06/23	JAJ	CHECKED	S.A.M.
2	ISSUED FOR CONSTRUCTION	00/03/27	SAM	APPROVED	S.A.M.
1	ISSUED FOR REVIEW	00/02/07	SAM	DATE	FEB. 2000
NO.	REVISIONS	DATE	BY	SCALE	AS SHOWN

OTTER LAKE WASTE MANAGEMENT FACILITY	PAGE NO.
FEP BUILDING EXTENSION	

FEP TIPPING FLOOR COMPACTOR LAYOUT

PROJECT NO.
99-7137

SHEET NO.

S-5

6

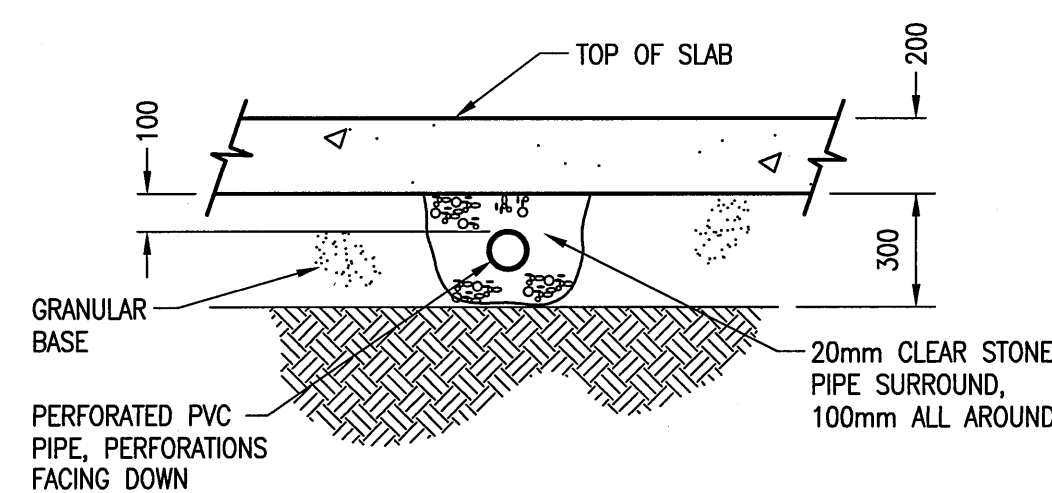
013840-ME-001 2000 AUG 14

NOTES:

1. PIPING MATERIALS

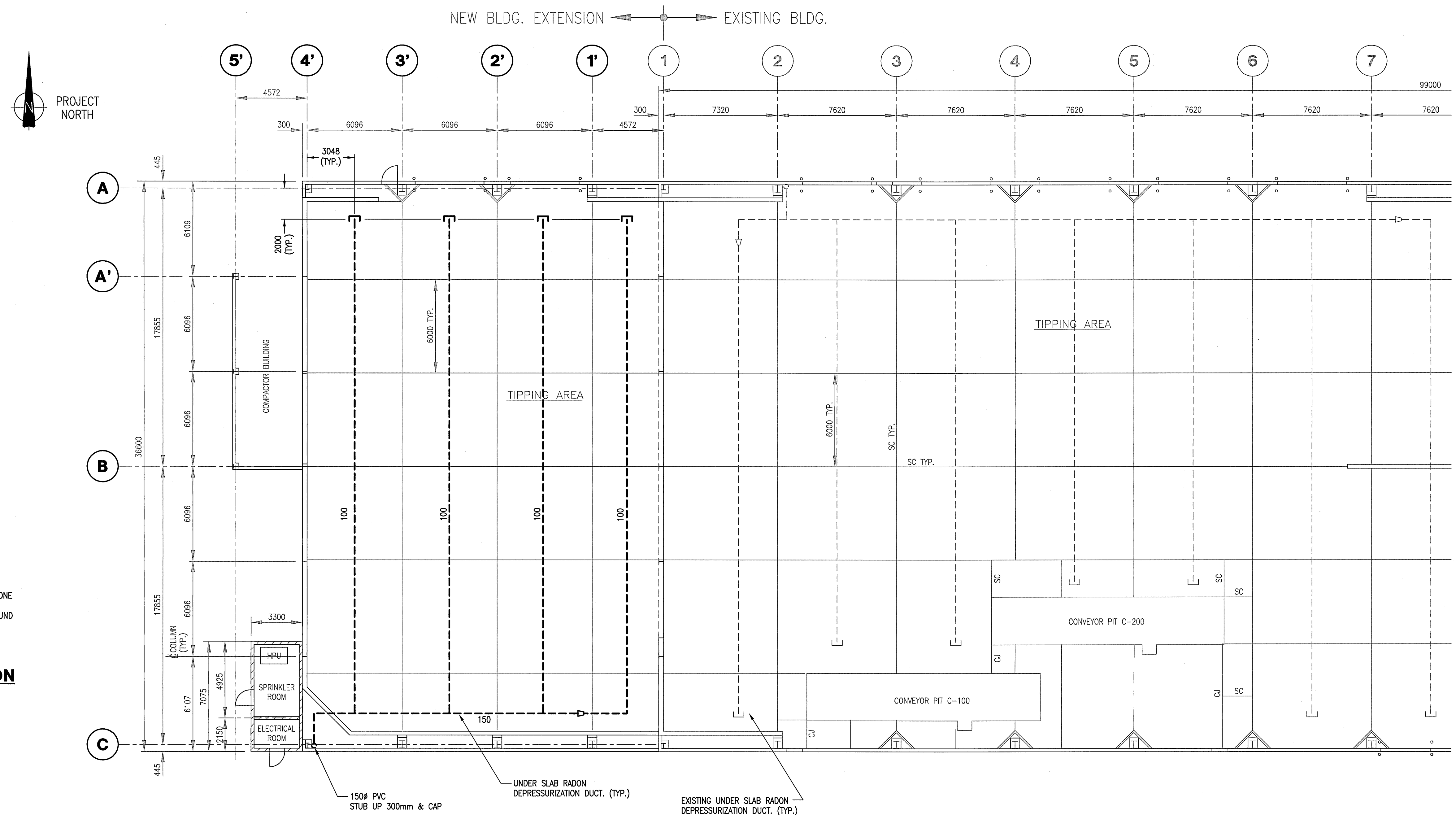
.1 RADON DEPRESSURIZATION DUCT:

1. UNDER SLAB PVC-DWV TO CSA-B181.2. SOLVENT WELD JOINTS TO ASTM D2564. FIELD PERFORATE PIPE LONGITUDINALLY WITH 12mm HOLES SPACED ON 300mm CENTERS.
2. ABOVE SLAB: PVC-DWV, NO PERFORATIONS.



TYPICAL RADON PIPING SECTION

SCALE: 1:20



UNDER SLAB MECHANICAL - PLAN

SCALE: 1:150



SNC-LAVALIN

SNC-LAVALIN Inc.
Halifax, Nova Scotia, Canada
Telephone: (902) 492-4544
Fax: (902) 492-4540
Member of the SNC-LAVALIN Group

MIRROR NS



NO.	REVISIONS	DATE	BY	SCALE	AS NOTED
1	AS-BUILT	00/08/14	DP	CHECKED	P.G.
0	ISSUED FOR CONSTRUCTION	00/02/09	DP	APPROVED	D.P.
A	ISSUED FOR REVIEW	00/01/13	DATE	JAN. 2000	

**OTTER LAKE WASTE MANAGEMENT FACILITY
FEP BUILDING EXTENSION**

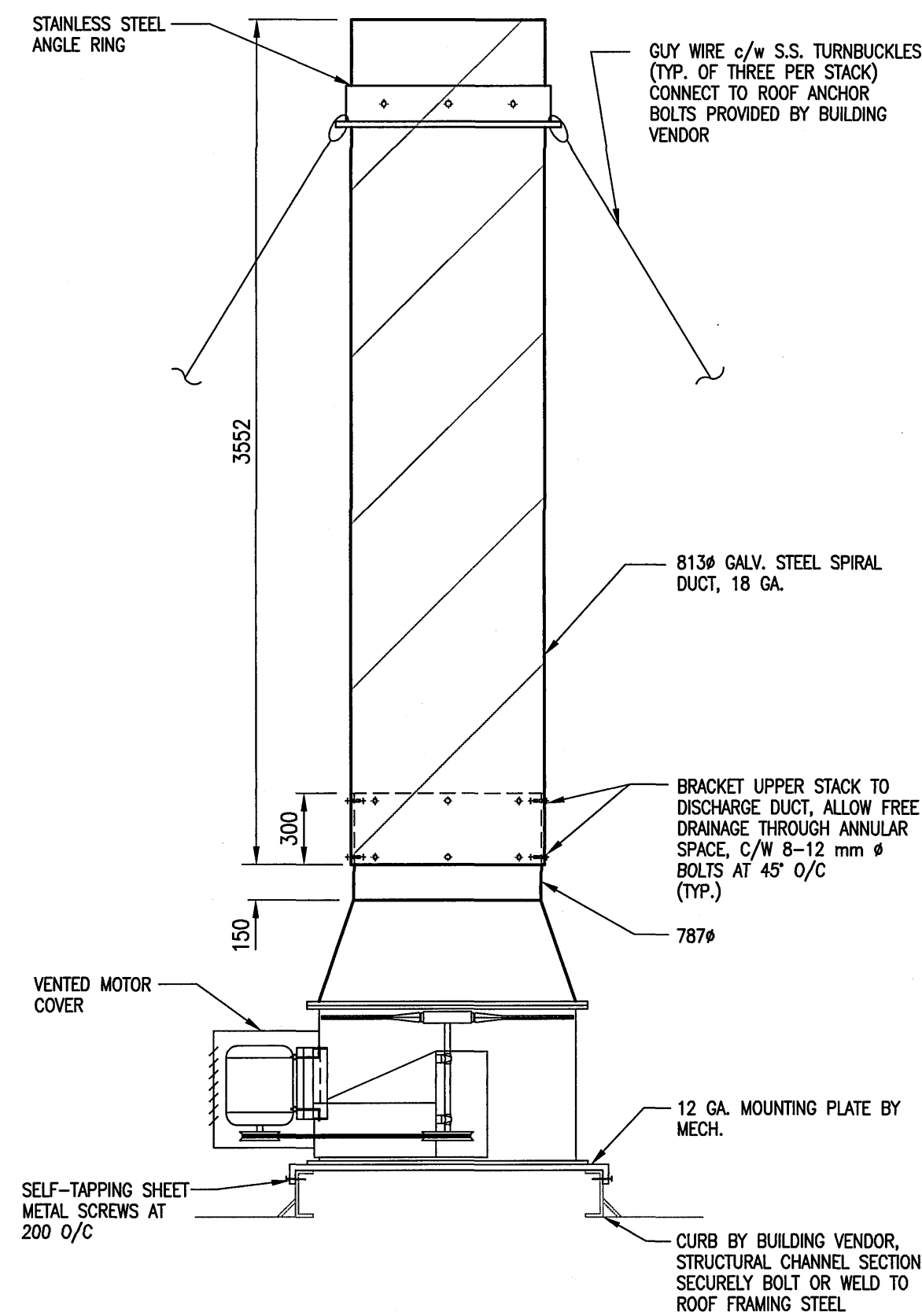
UNDER SLAB MECHANICAL

PROJECT NO. **99-7137**

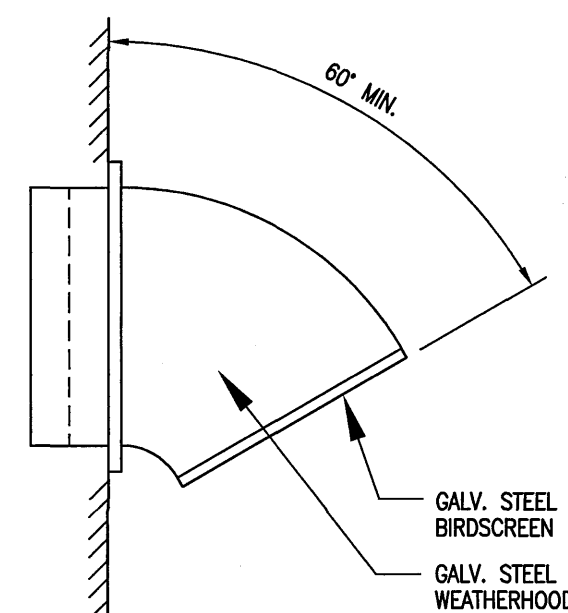
SHEET NO.

M-1

OF

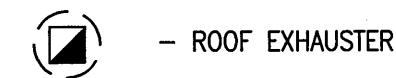


TYPICAL STACKHEAD DETAIL
FAN EF-12
 SCALE N.T.S.



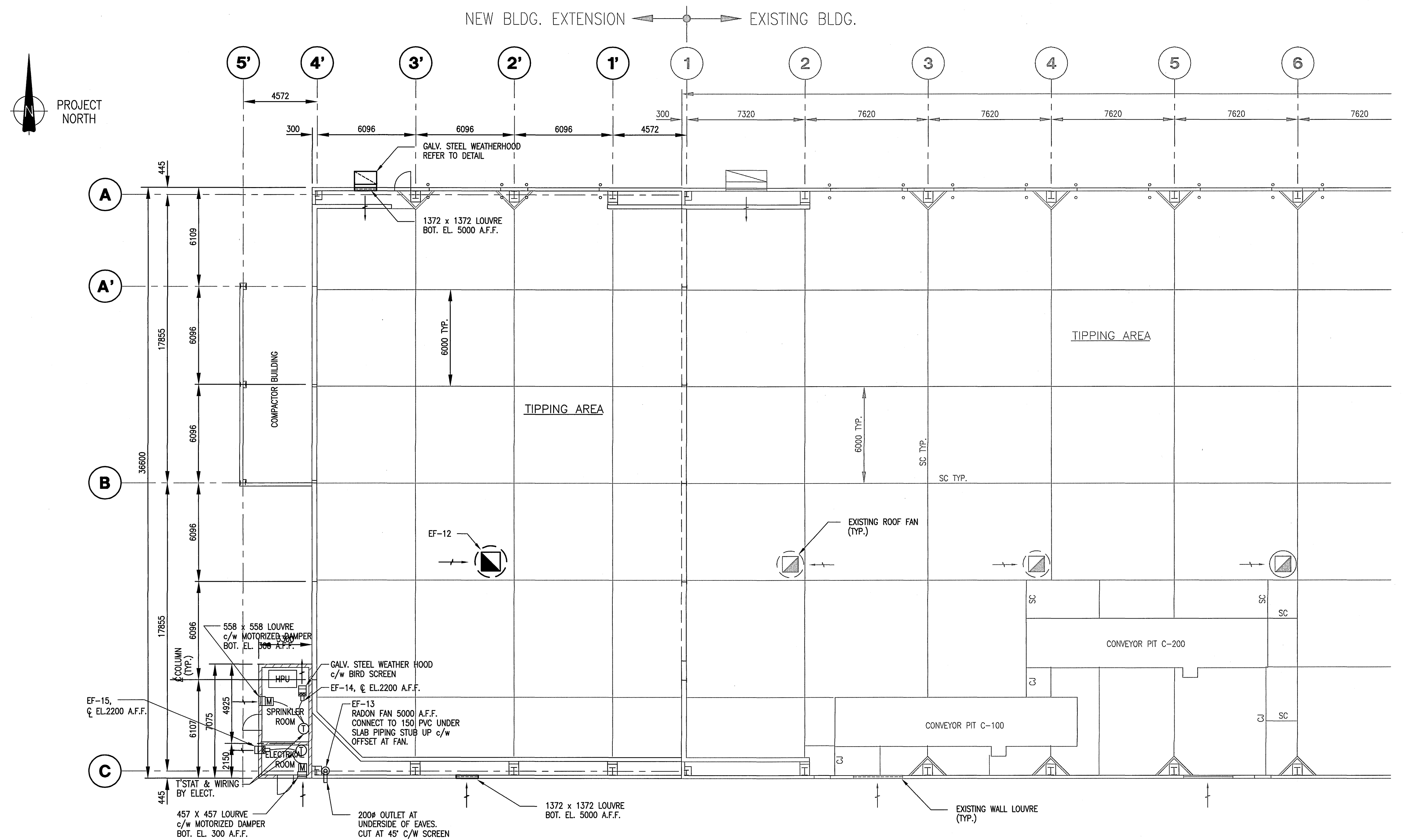
TYPICAL WEATHERHOOD DETAIL
 SCALE N.T.S.

LEGEND:



NOTES:

1. FOR 120 V VENTILATION CONTROLS, INCLUDING WIRING REFER TO ELECTRICAL DRAWING. LOCATION SHOWN ON THESE DRAWINGS FOR INFORMATION ONLY.
2. FOR EXACT WALL LOUVER & FAN LOCATIONS REFER TO BUILDING ELEVATION DRAWINGS.



VENTILATION PLAN
 SCALE 1:150

SNC-LAVALIN
 SNC-LAVALIN Inc.
 Halifax, Nova Scotia, Canada
 Telephone: (902) 492-4544
 Fax: (902) 492-4540
 Member of the SNC-LAVALIN Group

MIRROR NS

DILLON
 CONSULTING

NO.	REVISIONS	DATE	BY	SCALE	AS NOTED
1	AS-BUILT	00/08/14	DP	CHECKED	P.G.
0	ISSUED FOR CONSTRUCTION	00/02/09	DP	APPROVED	D.P.
A	ISSUED FOR REVIEW	00/02/07	-	DATE	JAN. 2000

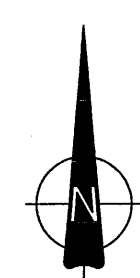
OTTER LAKE WASTE MANAGEMENT FACILITY
FEP BUILDING EXTENSION

VENTILATION

PROJECT NO.
99-7137

SHEET NO.
M-2

OF



SCALE: 1:150



- LEGEND:**



CABLE / CONDUIT SCHEDULE - FEP EXTENSION							
CABLE NO.	FROM	TO	DESCRIPTION (Derating for multi-conductor runs not incl.)	DIAM.	ROUTING	COMMENTS	
C-234	Compactor #3 Str.	Compactor #3 HPU	25- #12 awg RW90 in EMT	35mm	On wall or ceiling		
C-235	Compactor #3 HPU	Operator Control Panel	Direct Buried PVC Conduit	41mm	Direct Buried to Compoc. Bldg.		
C-236	Pushbutton Station	EF-12 Starter (El. Rm.)	35- #12awg RW90 in EMT, u/s PVC, RGS	27mm	Direct Buried & on wall of bldg.		
C-237	Trailer	Htr-1, Sprinkler Rm.	2- #18 awg in EMT	16mm	On wall or ceiling	24 v control circuit	
C-238	Tstat	Htr-2, Electrical Rm.	2- #18 awg in EMT	16mm	On wall or ceiling	24 v control circuit	
C-239	Gas Det'n. Panel	EF-12 Starter (El. Rm.)	2- # 12 awg RW90 in RGS	16mm	On wall or ceiling		
C-240	FEP Pln-4	Misc. Control Circuits	2- #12 awg RW90 & #12 bond in EMT	21mm	On wall or ceiling	120 v control circuit	
C-241	F.A. JB in Elec. Room	Fire Alarm Control Panel	Wiring as required, in RGS	21mm	On wall or ceiling	Fire Alarm wiring	
C-242	F.A. JB in Elec. Room	Compactor Bldg.	Wiring as required, in RGS within buildings Wiring as required, in Direct Buried PVC	21mm 41mm	On wall or ceiling Underground between buildings	Fire Alarm wiring	
P-222a	Old Septic Pump Stn.	New Septic Pump Stn.	2- #12 awg RW90 & #12 bond in EMT	27mm	Direct-Buried PVC	New J.B. at old pump stn.	
P-258	FEP Main Sw board	FEP Pln-3	4- #3/0 awg RW90 & #2 awg bond in RGS	63mm	Conduit on wall	Series Comb. Rated Brkr.	
P-259	FEP Pln-3	Compactor #3 Starter	3- #4 awg RW90 & #4 bond in EMT	35mm	Conduit on wall or ceiling		
P-260	FEP Pln-3	FEP IIR-3	2- #6 awg RW90 & #4 bond in EMT	27mm	Conduit on wall or ceiling		
P-261	FEP Pln-4	FEP Pln-4	3- #1 awg RW90 & #4 bond in EMT	41mm	Conduit on wall or ceiling		
P-262	Compactor#3 Starter	Compactor #3 HPU	3- #4 awg RW90 & #6 bond in EMT	35mm	Direct Buried & on wall of bldg.		
P-263	Compactor HPU	Trailer Lock J.B.	Wiring as required, in RGS within buildings Wiring as required, in Direct Buried PVC	21mm 41mm	On wall or ceiling Underground between buildings		
P-264	FEP Pln-3	FEP Exp. Interior Lighting	2, 4 or 6- #12 awg RW90 & #12 bond in RGS	21mm	Conduit on wall, ceiling	3 ccts; separate Neutrals	
P-265a,b?	FEP Pln-3	FEP Exp. Exterior Lighting	2- #12 awg RW90 & #12 bond in EMT, RGS	21mm	Conduit on interior wall	via Lighting Contactor	
P-266	FEP Pln-3	Compactor Bldg. Ltg.	2- #12 awg RW90 & #12 bond in RGS 2- #12 awg RW90 & #12 bond in PVC	21mm 41mm	On wall or ceiling Underground between buildings		
P-267	FEP Pln-3	Sprink / Elec. Rm. Ltg.	2- #12 awg RW90 & #12 bond in EMT	21mm	Conduit on wall, ceiling		
P-268	FEP Pln-3	FEP Htr-1, Sprinkler Rm.	2- #12 awg RW90 & #12 bond in EMT	21mm	Conduit on wall, ceiling		
P-269	FEP Pln-3	FEP Htr-2, Electrical Rm.	2- #12 awg RW90 & #12 bond in EMT	21mm	Conduit on wall, ceiling		
P-270	FEP Pln-3	FEP EF-12 Starter	3- #12 awg RW90 & #12 bond in EMT	21mm	Local		
P-271	FEP EF-12 Starter	Exhaust Fan #EF-12	3- #12 awg RW90 & #12 bond in RGS	21mm	Conduit on wall, ceiling		
P-272	FEP Pln-4	O'head door OH1A	2- #12 awg RW90 & #12 bond in RGS	21mm	Conduit on wall, ceiling		
P-273	FEP Pln-4	O'head door OH1B	2- #12 awg RW90 & #12 bond in RGS	21mm	Conduit on wall, ceiling		
P-274	FEP Pln-4	Eyewash Station	2- #10awg RW90 & #12 bond in EMT, PVC, RGS	27mm	EMT in El.Rm., PVC underslab, RGS in Tipping Floor		
P-275	Not Used	GFCCI Receptacle	-	-	-		
P-276	Not Used	-	-	-	-		
P-277	FEP Pln-4	120 V Receptacles	4- #12 awg RW90 & #12 bond, in EMT in Elec. & Sprink. Rms, PVC u/gnd., RGS in Compactor Bldg.	21 mm 41mm	Conduit on wall, ceiling Underground between buildings		
P-278	FEP Pln-4	30A Breaker Receptacle	2- #10awg RW90 & #12 bond in PVC, RGS	27mm	Same as P-279	GFCI to trip at 30 mA	
P-279	FEP Pln-4	240V 30A Receptacle	3- #8awg RW90 & #12 bond inEMT, PVC, RGS EMT in El.Rm., PVC underslab, RGS in FEP	27mm	Underbolt & on wall		
P-280	FEP Pln-4	Rodon Fan #EF-13	2- #12 awg RW90 & #12 bond in RGS	21mm	Conduit on wall		
P-281	FEP Pln-4	FEP Fan Traces	-	-	-	GFCI to trip at 30 mA	
P-282	FEP Pln-4	Sprinkler Room Exh. Fan	2- #12 awg RW90 & #12 bond in EMT	21mm	Conduit on wall, ceiling	Refer to Control Schematic	
P-283	FEP Pln-4	Electrical Room Exh. Fan	2- #12 awg RW90 & #12 bond in EMT	21mm	Conduit on wall, ceiling	Refer to Control Schematic	

NOTES:

1. Shaded areas indicate existing conditions.
2. Cabling integral to West Compactor Controls is not shown above; not in contract
3. "-?-" Indicates data to be finalized in future.

EQUIPMENT SCHEDULE – FEP EXTENSION															
DESIGNATION	DESCRIPTION	LOCATION	SUPPLIER	V/Ph/v	H.P.	kW	FLA	p.f.	DISCONNECT BY	STARTER BY	CONTROL CABLE	POWER FROM	POWER CABLE	COMMENTS	
FEP Pnl-3	Panelboard	W. Elec. Room	Contractor	800/3/4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	FEP Main Distr.	P-258	c/w 150sqmm Main Breaker	
FEP Pnl-4	Panelboard	W. Elec. Room	Contractor	240/1/3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	FEP Pnl-3	P-261	225 Ampr.	
FEP Tr-3	Transfer	W. Elec. Room	Contractor	800/1/2	n/a	42	~?	~?	Contractor	n/a	n/a	FEP Pnl-3	P-260	1600/1/240/1/3, 25kVA	
	Computer #3 HPU	Compac. Bldg.	H.R.M.	575/3/3	50	n/a	~50	~?	(incl.)	(incl.)	C-235	Comp. Starter	P-262	Relocated from Hxs. #3	
	Trailer Load #3 HPU	Compac. Bldg.	H.R.M.	575/3/3	2	n/a	~?	~?	(incl.)	(incl.)	C-235	Comp. #3 HPU	P-263	Incl. w/ Compactor.	
	FEP Exp'n. Lighting	FEP Extension	Contractor	347/1/2	n/a	6.85	20	~90	n/a	n/a	n/a	FEP Pnl-3	P-264	Switches at Man-door	
	FEP Exp'n. Ext'r. Ltg.	FEP Extension	Contractor	347/1/2	n/a	12.2	3.5	~90	n/a	n/a	n/a	FEP Pnl-3	P-265	Adoptive time-clock control	
	Compactor Bldg. Ltg.	Compac. Bldg.	Contractor	347/1/2	n/a	80.0	2.3	~90	n/a	n/a	n/a	FEP Pnl-3	P-266	Switch at Truck Entry	
	Sprinkl./ Elec. Rm. Ltg.	Sprinkl. El.Rm	Contractor	347/1/2	n/a	0.24	0.7	~90	n/a	n/a	n/a	FEP Pnl-3	P-267	Switches at Man-doors	
	Sprinkler Rm. Heater	W. Sprinkl. Rm.	Contractor	347/1/2	n/a	5000	14.4	~98%	Contractor	n/a	C-237	FEP Pnl-3	P-268	c/w 24v control cct., t'stot	
FEP Htr-1	Electrical Rm. Heater	W. Elec. Room	Contractor	347/1/2	n/a	1000	2.9	~98%	Contractor	n/a	C-238	FEP Pnl-3	P-269	c/w 24v control cct., t'stot	
FEP EF-12	Red Exhaust Fan	Typ. Fl. Roof	Div. 15	575/3/3	7.5	n/a	6.0	~?	Contractor	Contractor	C-239	FEP Pnl-3	P-270		
FEP OH1A	Overhead Door	Col. A-2/3	Sarco	230/1/3	3/4	n/a	n/a	6.0	~?	Contractor	Mfr.	By Mfr.	FEP Pnl-4	P-272	
FEP OH1B	Overhead Door	Col. A-1/2	Sarco	230/1/2	3/4	n/a	n/a	6.0	~?	Contractor	Mfr.	By Mfr.	FEP Pnl-4	P-273	
	Eyeshed station	Col. A-2	Owner	120/1	n/a	1.2	100%	n/a	Contractor	n/a	n/a	FEP Pnl-4	P-277		
	Receptacle	Through-out	Contractor	120/1	n/a	1.2	100%	n/a	n/a	n/a	n/a	FEP Pnl-4	P-278	OFCI recept. as disconnect	
	Black Heater Recept.	Col. A-3	Contractor	120/1	n/a	1.2	100%	n/a	n/a	n/a	n/a	FEP Pnl-4	P-279		
	240V 30A Receptacle	Col. A-3/4	Contractor	240/1/3	n/a	7.2	30	n/a	n/a	n/a	n/a	FEP Pnl-4	P-278	Weatherproof, type 14-30R	
FEP EF-13	Rodon Fan	Col. C-4	Div. 15	115/1	0.17	n/a	4.4	~?	n/a	Contractor	n/a	FEP Pnl-4	P-280		
	Fire Alarm Devices	Throughout	Contractor	n/a	n/a	n/a	n/a	n/a	n/a	n/a	C-241.2	F.A. Ctrl. Panel	n/a		
	Heat Trace													Reserved for future	
FEP EF-14	Sprinkler Rm. Ext.	Sprinkler Rm.	Div. 15	115/1	1/4	n/a	~?	~?	Contractor	Contractor	n/a	FEP Pnl-4	P-262	t'stot control & dampers	
FEP EF-15	Electrical Rm. Exh.	Electrical Rm.	Div. 15	115/1	1/30	n/a	~?	~?	Contractor	Contractor	n/a	FEP Pnl-4	P-263	t'stot control & dampers	

NOTES: 1. Shaded areas indicate preliminary data.
2. "-?-" Indicates data to be provided in future
3. "Contractor" above refers to Electrical Contractor.

MOTOR CONTROL SCHEDULE										- FEP EXTENSION			
STARTER	MOTOR	STR. SIZE	STARTER TYPE	SOFT START	MAN. SWITCH	RUN IND.	DISCON. SWITCH	FLUCESS (FUSES)	CONTROL FROM	WIRING SCHEM.	CONTROL CABLE #	POWER CABLE #	COMMENTS
(Existing)	HPU	4	Magnetic FVNR	No	No	No	No	Fused AMA, 125A	Remote Ctr. Ctl.	C-234	P-263	P-263	for Relocated Compressor
(Existing)	HF-1	1	Magnetic FVNR	No	Local	No	No	Fused	Ctr. Panel operated	C-236	P-263	P-263	for Trailer Load HPU
	HF-2	1	Magnetic FVNR	No	Remote	Yes	No	n/a	Manual S/S/Stn.	n/dwg.	C-236	P-270	for Roof Exhaust Fan
	EF-13	0	Manual FVNR	No	Integral	Yes	Integral	n/a (local)	n/dwg.	n/dwg.	n/a	P-280	Adjacent to Rodon Exh. Fan
	EF-14	0	Manual FVNR	No	Integral	Yes	Integral	n/a	T-stat	n/dwg.	n/a	P-280	for Spkls. Rm. vent'n.
	EF-15	0	Manual FVNR	No	Integral	Yes	Integral	n/a	T-stat	n/dwg.	n/a	P-283	for Elec. Rm. vent'n.

PANEL BOARD SCHEDULE		MAIN: NOTE 1: BRNCH: ED6				
PANEL	FEP PNL-3	VOLTS: 600/247	WIRE: 4	AMPS: 225	MOUNTING: <u>SURFACE</u>	BRKR TYPE: _____
TYPE: _____	COP _____	PHASE: 3	MAINS: BREAKER, 150A	I.C.: 14 KA	LOCATION: WEST ELEC. RM.	ENCL TYPE: CSA ENL. 1
FEEDER: P-258 FROM FEP MAIN SWITCHBOARD		COPPER BUS				

PANEL SCHEDULE

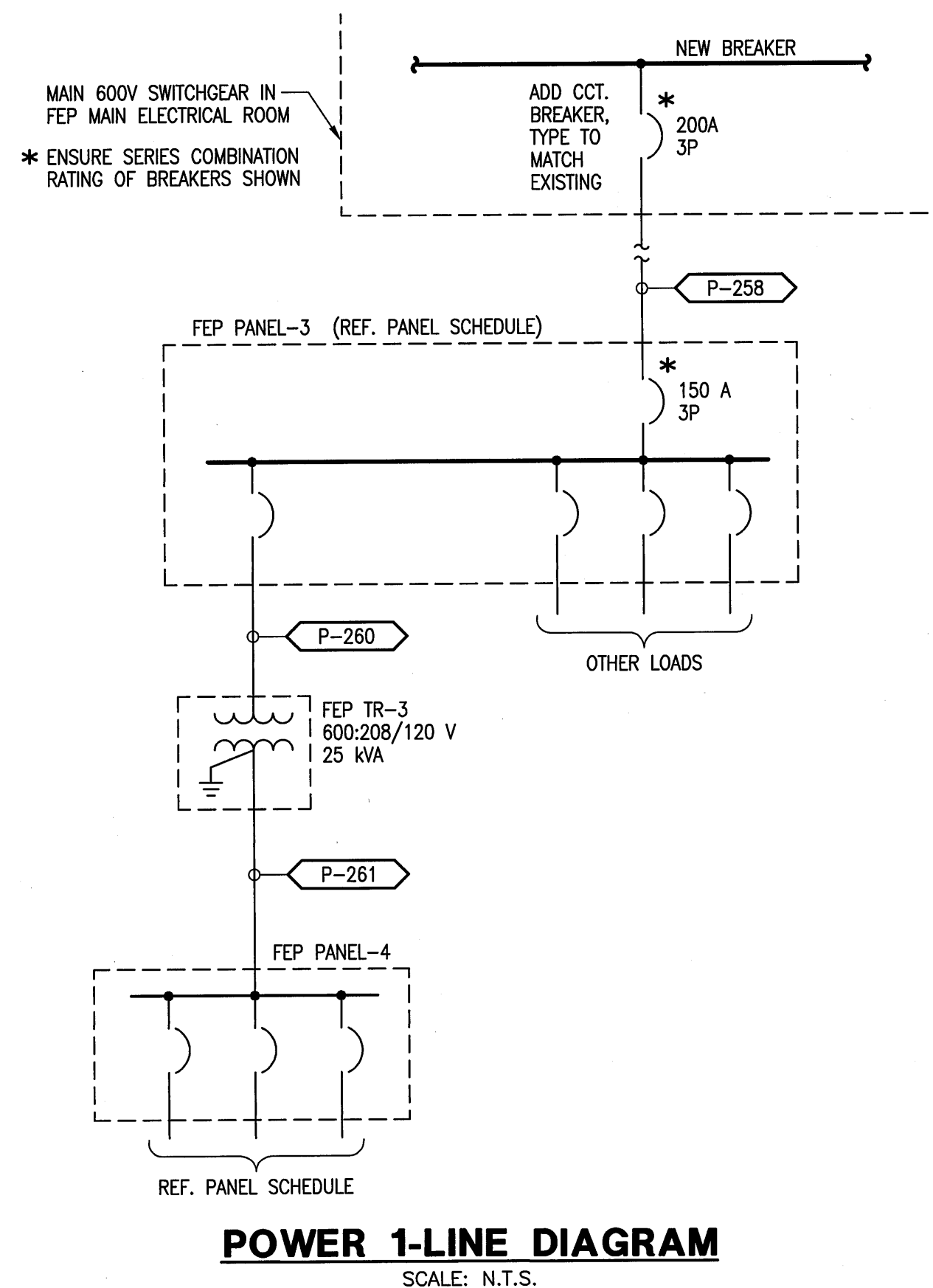
PANEL FEP PNL-4 **VOLTS:** 240/120 **WIRE:** 3 **AMPS:** 225 **MOUNTING:** SURFACE **BRKR TYPE:** NB
TYPE: NBC **PHASE:** 1 **MAINS:** LUSS ONLY **I.C.:** 10 KA **LOCATION:** WEST ELEC. RM. **ENCL TYPE:** CSA ENCL 1
FEEDER: P-280 FROM FEP PNL-3 **COPPER BUS**

CABLE NUMBER	LOAD (WATTS)	DESCRIPTION	BRK. AMPS	# OF POLES	A		# OF POLES	BRK. AMPS	DESCRIPTION	LOAD (WATTS)	CABLE NUMBER
					1	2					
P-272	644	OVERHEAD DOOR OH1A COL. A2-A3 (3/4 HP)	15	2	1	2	1	15	RECEPT'S EL./SPRINK. RM & COMPACTOR	480	P-277
			–	–	3	4	1	15	RECEPT'S EL./SPRINK. RM & COMPACTOR	480	P-277
P-273	644	OVERHEAD DOOR OH1B COL. A1-A2 (3/4 HP)	15	2	5	6	1	15	SPARE		
			–	–	7	8	1	15	SPARE		
		SPARE	15	1	9	10	1	15	RECEPTACLE, EXTERIOR (BLOCK HEATER)	1200	P-278
P-274	1200	EYEWASH STATION	15	1	11	12	1	15	SPARE		
	506	SPARE	15	1	13	14	2	30	RECEPTACLE, 30A, 240V	3600	P-279
P-XXX	600	RESERVED FOR FUTURE HEAT TRACE	15	2	15	16	–	–			
		* * * * *	–	–	17	18	1	15	VARIOUS CONTROL CIRCUITS	100	C-240
		NOTE 1	–	–	19	20	1	15	SPARE		
P-280	506	RADON FAN EF-13	15	1	21	22	1	15	SPARE		
P-262	670	SPRINKLER RM. EXH. EF-14 (1/4 HP)	15	1	23	24	1	15	SPARE		
P-263	100	ELECTRICAL RM. EXH. EF-15 (1/30 HP)	15	1	25	26	1	15	SPARE		
		SPARE	15	1	27	28	1	15	SPARE		
		SPARE	15	1	29	30	1	15	SPARE		

NOTES: 1. GFCI BREAKER FOR HEAT TRACE & BLOCK HEATER MUST SUSTAIN 30mA GROUND CURRENT WITHOUT TRIPPING.

LEGEND:

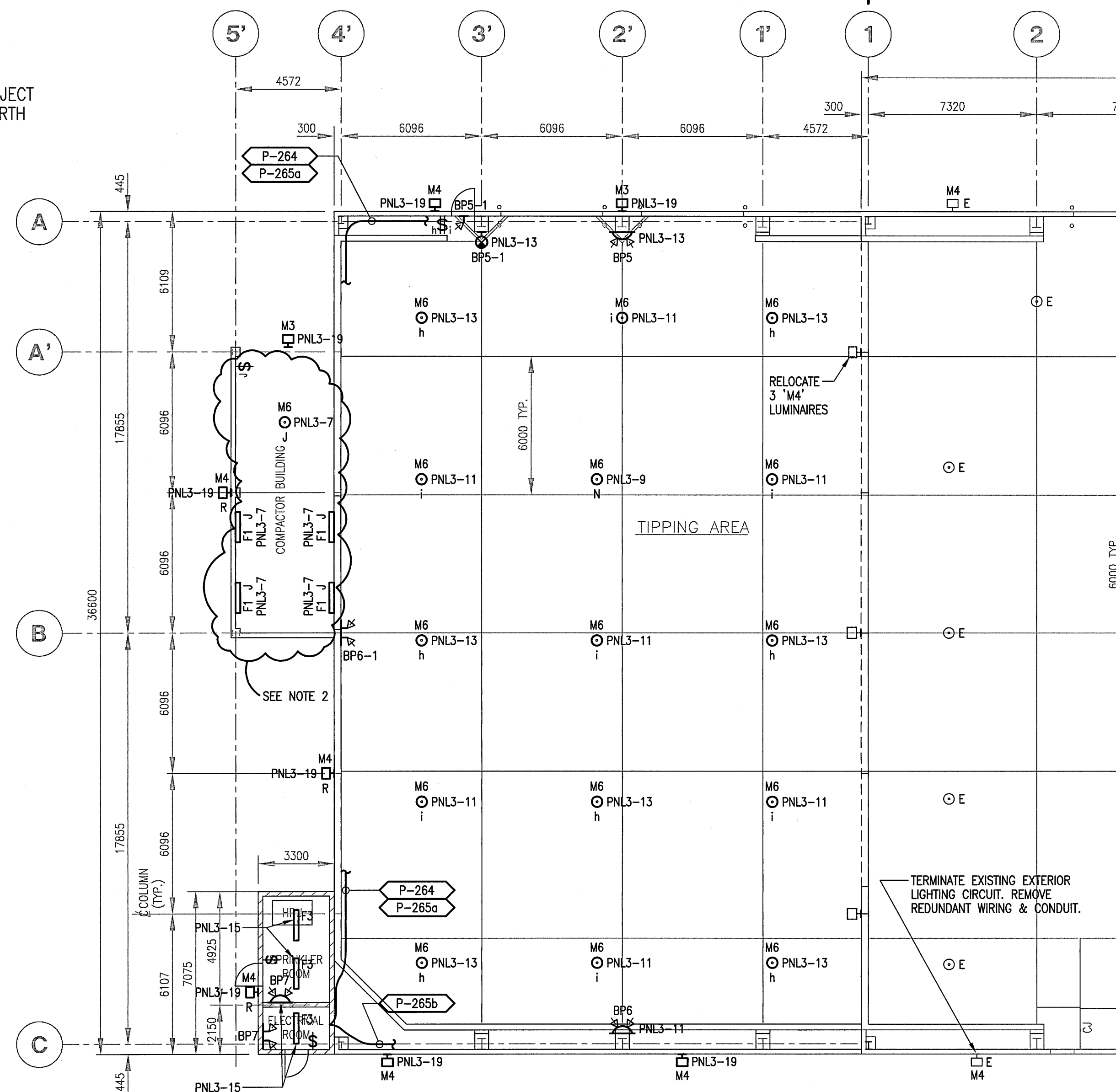
- 120 V, 15 A, DUPLEX RECEPTACLE, 14-30R, INSTALLED 1350mm A.F.F., WEATHERPROOF (WITH CIRCUIT NO.). 'GF' INDICATES GFCI PROTECTED
- 240 V, 30 A RECEPTACLE, 6-30R, INSTALLED 1350mm A.F.F., WEATHERPROOF (WITH CIRCUIT NUMBER).
- AC MOTOR
- LOW VOLTAGE HEATING T'STAT TO MATCH EXISTING
- LINE VOLTAGE COOLING T'STAT TO MATCH EXISTING
- POWER CABLE/CONDUIT NUMBER
- CONTROL CABLE/CONDUIT NUMBER
- FIRE ALARM MANUAL PULL STATION FOR SINGLE STAGE SYSTEM C/W WEATHER GUARD. 'EDWARDS' SIGA-270 SERIES, GUARD 'EDWARDS' ST3130 SERIES OR APPROVED EQUAL.
- FIRE ALARM HORN/SIREN MOUNTED 6m A.F.F. UNLESS NOTED OTHERWISE, 114 dbA SOUND PRESSURE OUTPUT @ 3m, 3 TONES HORN FOR INDEPENDENT SIGNALLING OF FIRE ALARM AND GAS ALARM, 'EDWARDS' 55200 SERIES OR APPROVED EQUAL.
- CARBON MONOXIDE (CO) SENSOR WITH TRANSMITTER TO BE MOUNTED 1.5m A.F.F. UNLESS NOTED OTHERWISE.
- NITROGEN OXIDES SENSOR WITH TRANSMITTER TO BE MOUNTED 1.3m A.F.F. UNLESS NOTED OTHERWISE. TYPE OF SENSOR AND CRITICAL LEVELS (THRESHOLDS) TO BE CONFIRMED WITH OWNER REPRESENTATIVE PRIOR TO ORDERING.
- CEILING MOUNT FIXTURE (FLUORESCENT). REF. INSTALLED SCHEDULE.
- WALL MOUNT FIXTURE (METAL HALIDE)
- PENDANT OR CHAIN MOUNT FIXTURE (METAL HALIDE)
- UNIT EMERGENCY LIGHTING FIXTURE AND BATTERY, TWIN HEAD ADJUSTABLE TWIN HEADS. SUFFIX 'WP' INDICATES WATER PROOF UNIT. SUFFIX 'DT' INDICATES DUST TIGHT UNIT.
- WALL MOUNTED REMOTE EMERGENCY LIGHTING FIXTURE WITH ADJUSTABLE TWIN HEADS. SUFFIX 'WP' INDICATES WATER PROOF UNIT.
- LINE VOLTAGE LIGHT SWITCH (20A), SINGLE POLE (INSTALLED 1350 A.F.F.) SUFFIX a, b, c, ETC. INDICATES SWITCH CONTROLS FIXTURES WITH MATCHING LETTER. SUFFIX 3 & 4 INDICATES 3 OR 4 WAY SWITCH. SUFFIX 'WP' INDICATES SWITCH COMPLETE WITH PVC TOGGLE SWITCH COVER.
- MULTI-GANGED SWITCH BOX
- INDICATES NIGHT LIGHT
- JUNCTION BOX
- IDENTIFICATION CODES FOR FIXTURE TYPE, CIRCUIT NUMBER AND METHOD OF LIGHTING CONTROL.





PROJECT
NORTH

NEW BLDG. EXTENSION ← → EXISTING BLDG.



FLOOR PLAN - LIGHTING LAYOUT

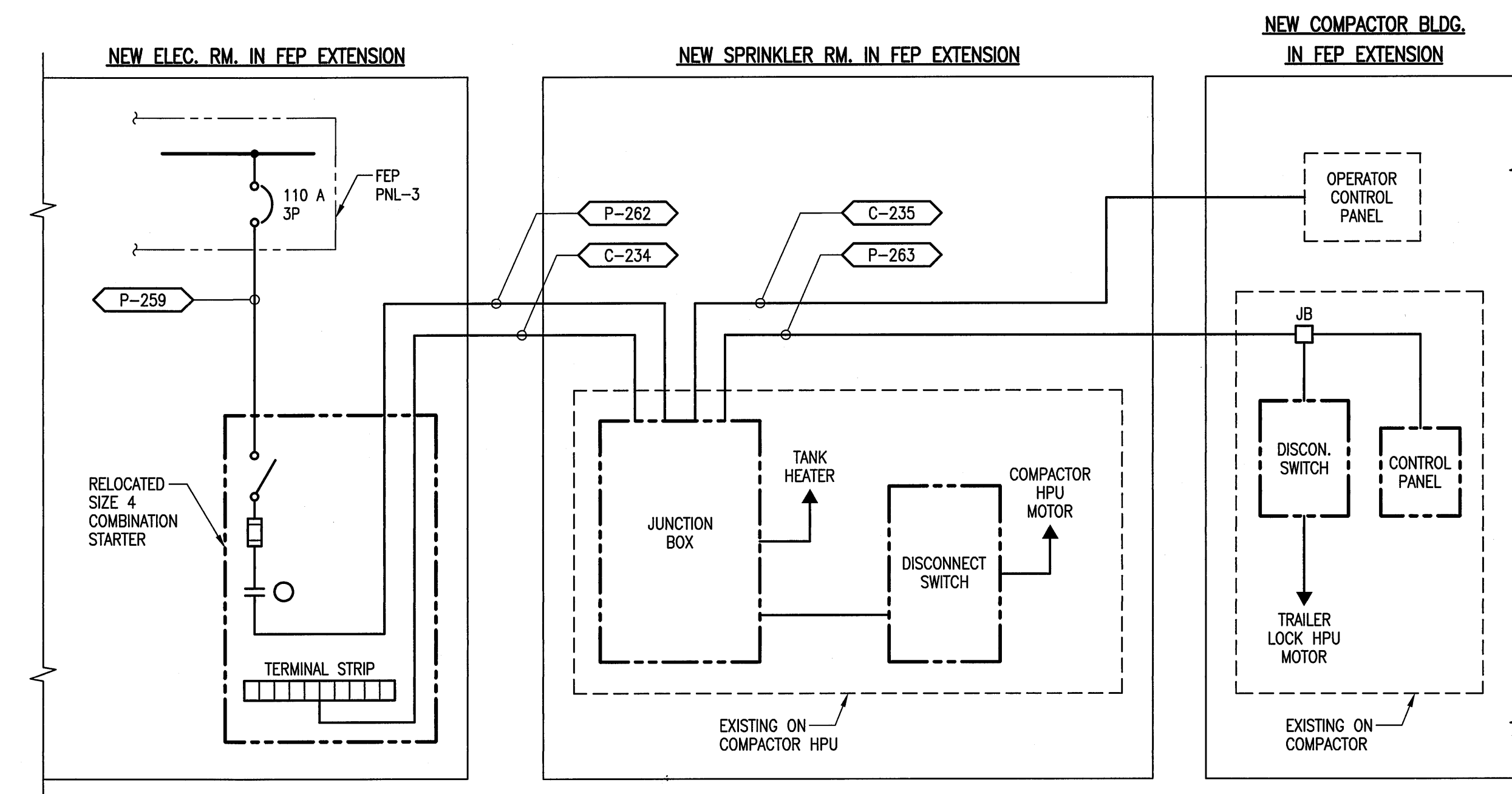
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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	VOLTAGE	BALLAST	REMARKS/USE
F1	FIBERGLASS FLUORESCENT SURFACE LUMINAIRE (1321 x 203 x 118), FULLY ENCLOSED AND GASKETED, CSA CERTIFIED FOR DAMP LOCATIONS WITH ACRYLIC LENS AND HEAVY DUTY CAM LATCHING. APPROVED PRODUCTS: CFI VT SERIES, OR EQUAL.	2 x F32T8 32 W, C.W. (3500° K)	347 V	RAPID START T8 ELECTRONIC (-20°C STARTING)	
F3	FLUORESCENT OPEN INDUSTRIAL FIXTURE (1219 x 273 x 114), 10% UPLIGHT AND REFLECTOR EMBOSSED FOR RIGIDITY, APPROVED PRODUCT: CFI FF SERIES, OR EQUAL.	2 x F32T8 32 W, C.W. (3500° K)	347 V	RAPID START T8 ELECTRONIC (0°C STARTING)	
M3	METAL HALIDE, HEAVY-DUTY DIE CAST ALUMINUM FLOODLIGHT (470 x 406 x 292) WITH HEAT DISSIPATING FINS, HEAT & IMPACT RESISTANT GLASS LENS, FULLY GASKETED, HINGED, DURAPLEX II FINISH, SPECULAR WIDE BEAM REFLECTOR AND YOKE MOUNTED. APPROVED PRODUCT: LUMARK WARRIOR MODEL NO. MH-WR-65-T-400-347V-TT-LL, OR EQUAL.	1 x ED28 400 W (CLEAR)	347 V	HPF	LIGHTING CONTROL PROVIDED VIA CONTACTOR PANEL AND PHOTO CELL
M4	METAL HALIDE EXTERIOR WALL MOUNTED SECURITY LIGHT (248 x 286 x 166) WITH VANDAL RESISTANT, DARK BRONZE POLYCARBONATE COVER, ANODIZED ALUMINUM REFLECTOR, TYPE III DISTRIBUTION WITH CLEAR LENS IN FORWARD POSITION AND FULLY GASKETED. APPROVED PRODUCT: COOPER LIGHTING GLASS-PAK, MODEL NO. MHGP-70H-347V-LL, OR EQUAL.	1 x ED17 70 W (CLEAR)	347 V	HPF	LIGHTING CONTROL PROVIDED VIA CONTACTOR PANEL AND PHOTO CELL
M6	METAL HALIDE INDOOR INDUSTRIAL LUMINAIRE (457 DIA. x 756 DEEP); HOUSING: DIE-CAST ALUMINUM WITH CORROSION-RESISTANT EPOXY COATING; REFLECTOR: HIGH-IMPACT ACRYLIC, ENCLOSED & GASKETED; HARDWARE: ALL STAINLESS STEEL. APPROVED PRODUCT: LUMARK #MHEM-ENSA18-M-400-TT-FH-1-C3.	1 x ED28 400 W (CLEAR)	347 V	HPF	WITH SAFETY CABLE
U	UNIT EMERGENCY LIGHTING EQUIPMENT BATTERY PACK WITH INTEGRAL LIGHTING HEADS, SEALED MAINTENANCE FREE 10 YEAR BATTERY AND WARRANTY, TEMPERATURE COMPENSATED SOLID STATE BATTERY CHARGER, 24 HOURS FULL RECHARGE, 1/2 HOUR STANDBY MINIMUM, AC 'ON' LED, TEST SWITCH AND TWO FUSED OUTPUT CIRCUITS. APPROVED PRODUCT: EMERGLITE 24ESLK, PK1, OR EQUAL.	2 x 18 W MICRO TUNGSTEN	347 VAC 24 VDC (STANDBY)	N/A	CEMA 4X
U	UNIT EMERGENCY LIGHTING EQUIPMENT REMOTE HEADS, FULLY ADJUSTABLE FOR AISLE OR AREA DISTRIBUTION. APPROVED PRODUCT: EMERGLITE EF28D, OR EQUAL.	2 x 18 W MICRO TUNGSTEN	24 VDC	N/A	CEMA 4X
W	WALL MOUNTED, SINGLE FACE, 'EXIT' SIGN WITH METAL HOUSING, BAKED WHITE ENAMEL FINISH, HIGH VISIBILITY LENS PANEL, COLOUR RED, AND TRANSFER SWITCH FOR REMOTE BATTERY OPERATION. APPROVED PRODUCT: EMERGLITE EXPK SERIES, OR EQUAL.	L.E.D.	347 VAC 24 VDC (STANDBY)	N/A	CEMA 4X

GENERAL NOTES:

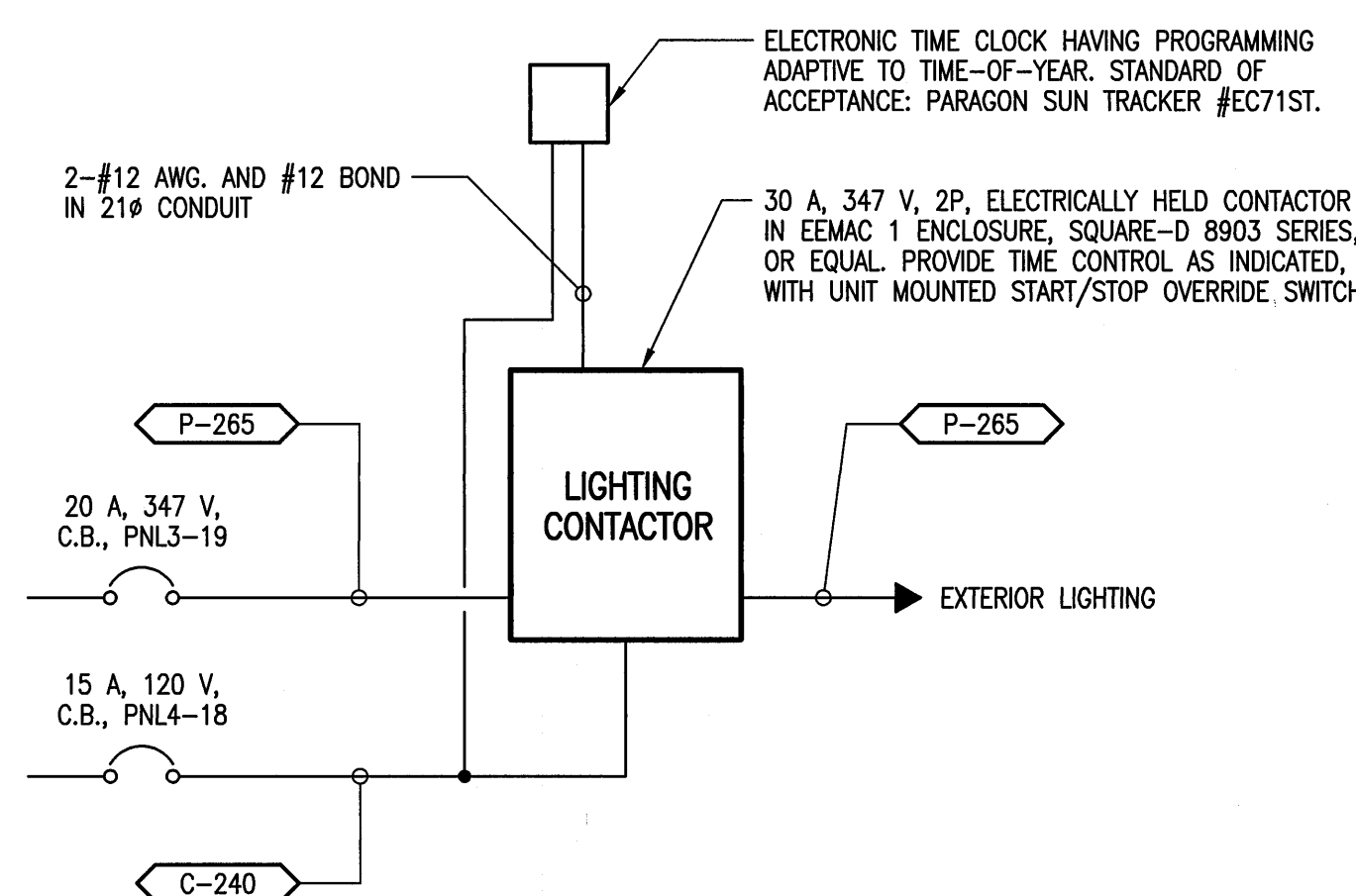
- SOME CONDUIT RUNS ARE NOT SHOWN. REFER TO CABLE/CONDUIT SCHEDULE.
- COMPACTOR BUILDING LUMINAIRE LOCATIONS ARE APPROXIMATE EXACT LOCATIONS TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.



NOTE: REPLACE ALL DAMAGED CABLING & WIRING ON RELOCATED EQUIPMENT.

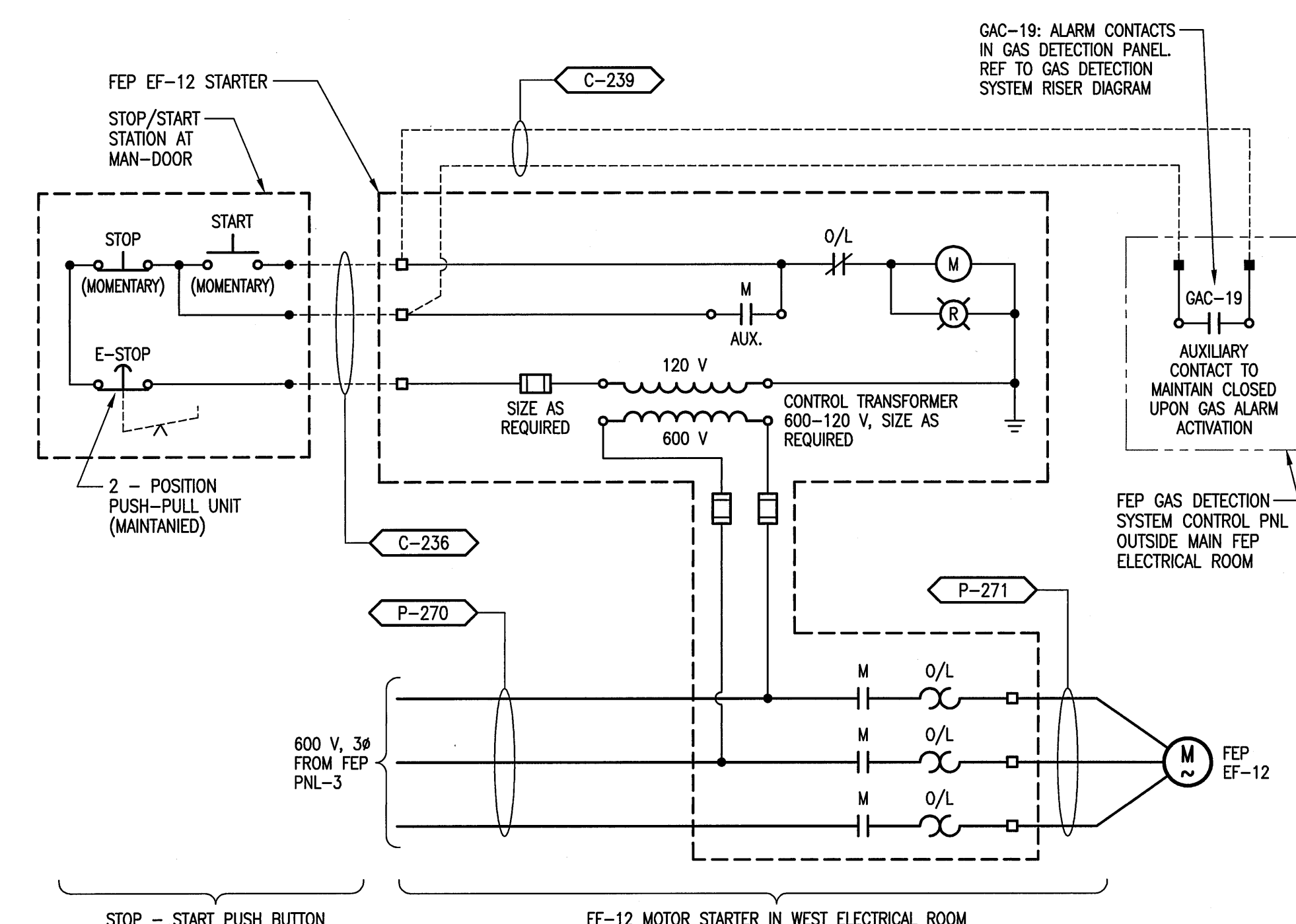
COMPACTOR CONNECTION DIAGRAM

SCALE: N.T.S.



LIGHTING CONTACTOR WIRING DIAGRAM

SCALE: N.T.S.



TIPPING FLOOR EXTENSION VENTILATION CONTROL SCHEMATIC

SCALE: N.T.S.

2000 AUG 14

013840-EL-004



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MIRROR NS



DESIGN S.B.

DRAWN D.D.

CHECKED D.P.

APPROVED D.P.

DATE JAN. 2000

BY SCALE AS NOTED

OTTER LAKE WASTE MANAGEMENT FACILITY
FEP BUILDING EXTENSION

LIGHTING PLAN
& MISC. DIAGRAMS

PROJECT NO.
99-7137

SHEET NO.
E-4