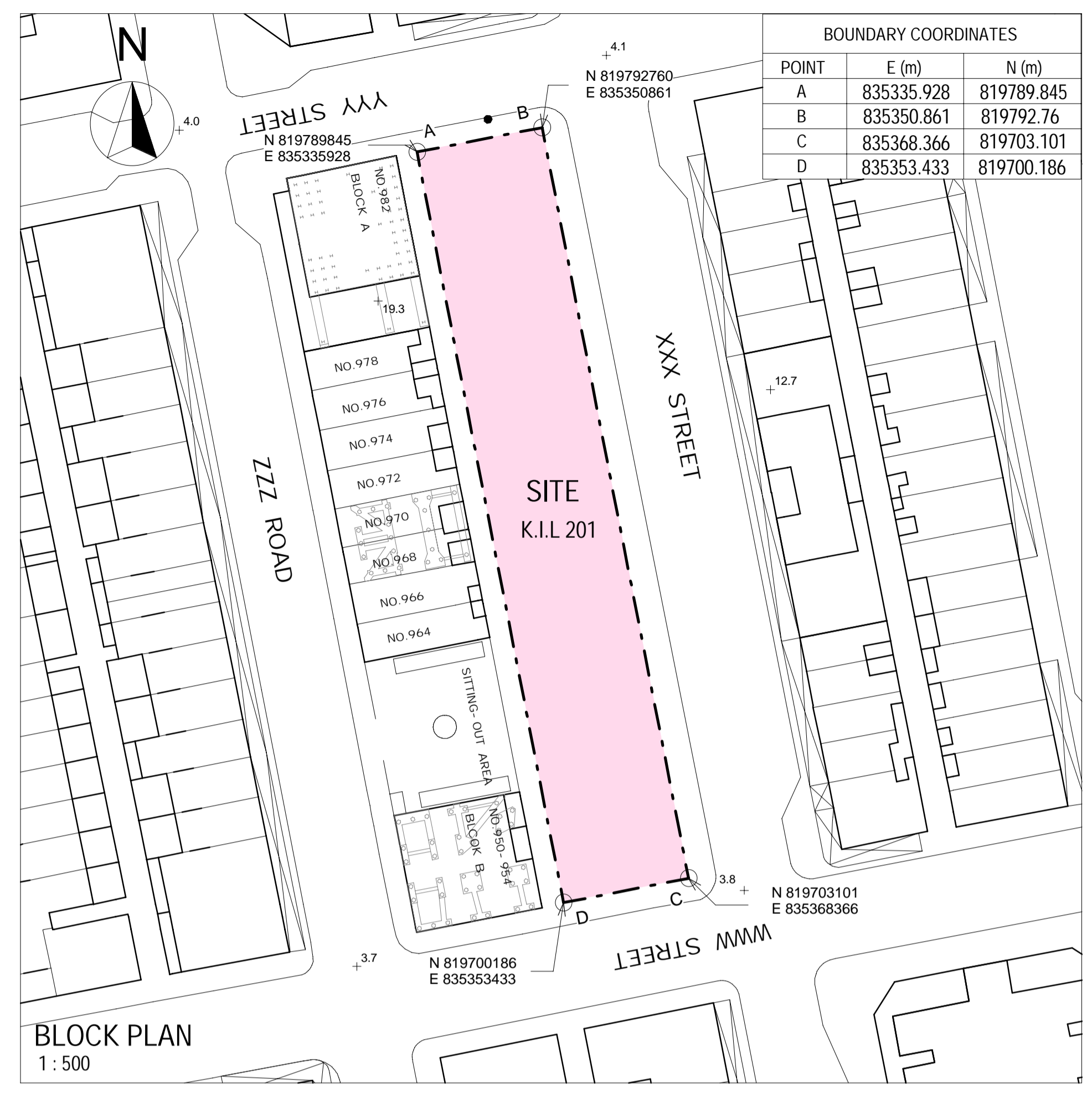






**LEGEND AND NOTES:**

- BOUNDARY LINE
- BP1 BORED PILE
- ⊕ -6.35 CAP TOP LEVEL (mPD)
- 3040 PILE CAP (UNDER SEPARATE SUBMISSION)
- ⊕ F2HP01 SOCKET H-PILE MARK
- ⊕ F2 SOCKET H-PILE
- ⊕ F2 PILE CAP MARK
- 3040 PILE CAP (UNDER SEPARATE SUBMISSION)
- ⊕ F6HP02 SOCKET H-PILE MARK
- ⊕ F6 SOCKET H-PILE
- ⊕ F6 PILE CAP MARK
- TB1 (1000x800) TIE BEAM (UNDER SEPARATE SUBMISSION)
- (600) / (600) BASEMENT SLAB (UNDER SEPARATE SUBMISSION)
- C1 COLUMN / WALL ABOVE (UNDER SEPARATE SUBMISSION)
- BASEMENT SCREEN WALL (UNDER SEPARATE SUBMISSION)
- CP1 PILE CAP (2000mm THICK) (UNDER SEPARATE SUBMISSION)  
CP1 - PILE CAP MARK
- 50 INFERRED ROCK HEAD LEVEL
- BH1(P) BORED HOLE (WITH PIEZOMETER)  
(BH1 (P), BH2 (P) AND BH5 (P)  
BH6 (P), BH9 (P) AND BH10 (P) 6NOS.)
- BH2 BORED HOLE  
(BH3, BH4, BH7 AND BH8 4 NOS.)
- +4.15 EXISTING GROUND LEVEL
- 8.85 STRUCTURAL FLOOR LEVEL



BD REF :  
BIM REF :

REV	Date	Revision
DATE		AMENDMENT

PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
PILING LAYOUT PLAN

SCALE AS SHOWN@A1

DRAWING NO. P002 REV. NO. 1

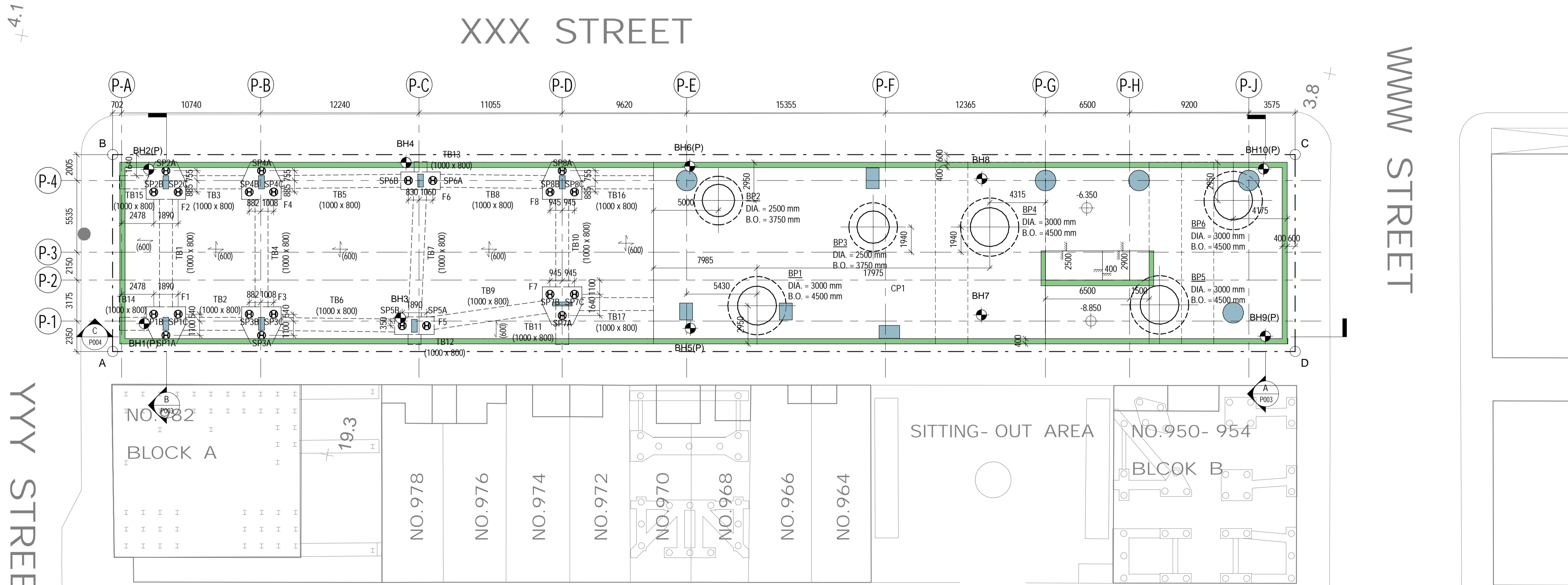
SOURCE ---

90mm (W) x 40mm (H) space for COMPANY LOGO

90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD'S OFFICIAL USE

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)



1 PILING LAYOUT PLAN  
1:200







COLUMN LOADING SCHEDULE ABOVE PILE CAP (1 OF 2)																															
COLUMN MARK	ANGLE	MIN DEAD LOAD (Dmin)						SDL						DEAD LOAD (DL) = Dmin + SDL						LIVE LOAD (LL)						DL + LL					
		P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)
PC1	0	1600	0	0	0	0	800	0	0	0	0	0	2400	0	0	0	0	0	700	0	0	0	0	0	3100	0	0	0	0	0	
PC2	0	2100	0	0	0	0	1400	0	0	0	0	0	3500	0	0	0	0	0	900	0	0	0	0	0	4400	0	0	0	0	0	
PC3	0	2400	0	0	0	0	1700	0	0	0	0	0	4100	0	0	0	0	0	1000	0	0	0	0	0	5100	0	0	0	0	0	
PC4	0	2300	0	0	0	0	2000	0	0	0	0	0	4300	0	0	0	0	0	1000	0	0	0	0	0	5300	0	0	0	0	0	
PC5	0	2300	0	0	0	0	1400	0	0	0	0	0	3700	0	0	0	0	0	900	0	0	0	0	0	4600	0	0	0	0	0	
PC6	0	2500	0	0	0	0	1400	0	0	0	0	0	3900	0	0	0	0	0	1000	0	0	0	0	0	4900	0	0	0	0	0	
PC8	0	3200	0	0	0	0	1100	0	0	0	0	0	4300	0	0	0	0	0	1300	0	0	0	0	0	5600	0	0	0	0	0	
PW7	0	4200	0	200	0	0	1600	0	300	0	0	0	5800	0	500	0	0	0	1800	0	100	0	0	0	7600	0	600	0	0	0	
TC1	0	12700	0	0	0	0	5600	0	0	0	0	0	18300	0	0	0	0	0	4500	0	0	0	0	0	22800	0	0	0	0	0	
TC2	0	19400	0	0	0	0	9300	0	0	0	0	0	28700	0	0	0	0	0	6400	0	0	0	0	0	35100	0	0	0	0	0	
TC3	0	17200	0	0	0	0	7200	0	0	0	0	0	24400	0	0	0	0	0	7100	0	0	0	0	0	31500	0	0	0	0	0	
TC4	0	18000	0	0	0	0	7400	0	0	0	0	0	25400	0	0	0	0	0	8100	0	0	0	0	0	33500	0	0	0	0	0	
TC5	0	24200	0	0	0	0	10900	0	0	0	0	0	35100	0	0	0	0	0	9300	0	0	0	0	0	44400	0	0	0	0	0	
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TC8	0	13400	0	0	0	0	6700	0	0	0	0	0	20100	0	0	0	0	0	4200	0	0	0	0	0	24300	0	0	0	0	0	
TC9	0	13200	0	0	0	0	7200	0	0	0	0	0	20400	0	0	0	0	0	4700	0	0	0	0	0	25100	0	0	0	0	0	
TC10	0	13000	0	0	0	0	7500	0	0	0	0	0	20500	0	0	0	0	0	4300	0	0	0	0	0	24800	0	0	0	0	0	
Grand total: 17		167900	0	200	0	0	80500	0	300	0	0	0	248400	0	500	0	0	0	63300	0	100	0	0	0	311700	0	600	0	0	0	

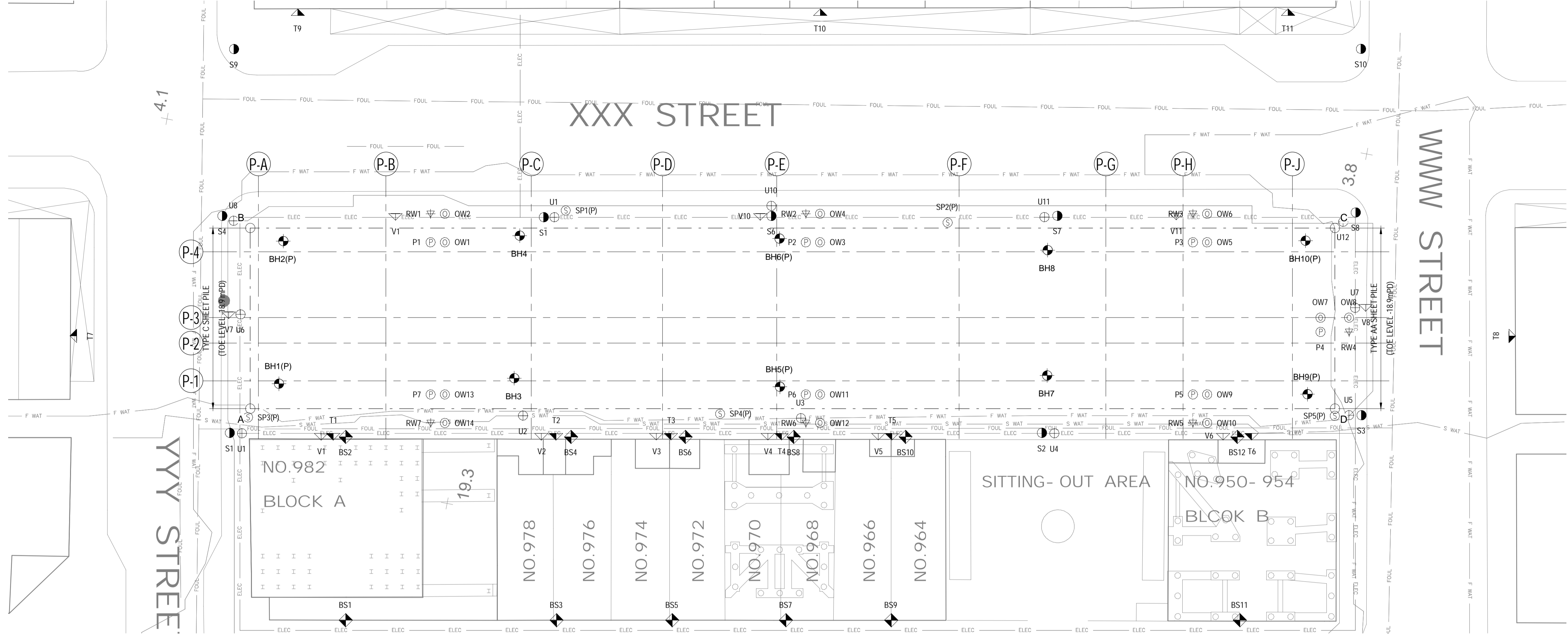
COLUMN LOADING SCHEDULE ABOVE PILE CAP (2 OF 2)																															
COLUMN MARK	ANGLE	WX						WY						WU						WV						WMAX					
		P (kN)	Vx (kN)	Vy (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	P (kN)	Vx (kN)	Vy (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	P (kN)	Vx (kN)	Vy (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	P (kN)	Vx (kN)	Vy (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	P (kN)	Vx (kN)	Vy (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
PC1	0	-200	10	30	0	0	0	-1000	10	300	0	0	0	-400	10	80	0	0	0	-700	-10	230	0	0	0	1000	10	300	0	0	0
PC2	0	100	10	30	0	0	0	1000	-10	290	0	0	0	200	10	80	0	0	0	800	-10	230	0	0	0	1000	10	290	0	0	0
PC3	0	-200	10	30	0	0	0	-1600	-10	390	0	0	0	-500	10	90	0	0	0	-1200	-10	300	0	0	0	1600	10	390	0	0	0
PC4	0	200	10	30	0	0	0	1600	10	370	0	0	0	400	10	90	0	0	0	1300	-10	290	0	0	0	1600	10	370	0	0	0
PC5	0	-200	10	30	0	0	0	-1800	10	380	0	0	0	-500	10	90	0	0	0	-1400	-10	300	0	0	0	1800	10	380	0	0	0
PC6	0	100	10	20	0	0	0	1500	10	350	0	0	0	300	10	80	0	0	0	1200	-10	280	0	0	0	1500	10	350	0	0	0
PC8	0	-200	10	10	0	0	0	1300	-10	200	0	0	0	-200	10	40	0	0	0	1300	-10	170	0	0	0	1300	10	200	0	0	0
PW7	0	-400	270	10	0	1200	0	-1100	-80	10	0	-400	0	-700	450	10	0	2000	0	-600	-330	10	0	-1400	0	1100	450	10	0	2000	0
TC1	0	-1300	10	20	0	0	0	-11400	-30	510	0	0	0	-3800	-10	90	0	0	0	-8300	-20	420	0	0	0	11400	30	510	0	0	0
TC2	0	-500	50	20	0	0	0	15200	-20	540	0	0	0	1400	80	90	0	0	0	13100	-60	450	0	0	0	15200	80	540	0	0	0
TC3	0	-500	-10	-10	0	0	0	-13100	-10	340	0	0	0	-2700	-10	40	0	0	0	-10400	10	290	0	0	0	13100	10	340	0	0	0
TC4	0	-1400	-10	-20	0	0	0	-13000	-50	350	0	0	0	-4100	-20	20	0	0	0	-9500	-40	310	0	0	0	13000	50	350	0	0	0
TC5	0	-600	50	10	0	0	0	20600	-20	400	0	0	0	2100	80	60	0	0	0	17600	-60	330	0	0	0	20600	80	400	0	0	0
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TC8	0	600	60	20	0	0	0	17000	30	-470	0	0	0	3400	90	-50	0	0	0	13500	-40	-410	0	0	0	17000	90	470	0	0	0
TC9	0	3100	-40	10	0	0	0	-17300	230	330	0	0	0	2700	-30	50	0	0	0	-17100	220	280	0	0	0	17300	230	330	0	0	0
TC10	0	2100	40	-10	0	0	0	13300	60	360	0	0	0	5400	70	40	0	0	0	9100	10	310	0	0	0	13300	70	360	0	0	0
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WALL LOADING SCHEDULE ABOVE PILE CAP (1 OF 2)																															
WALL MARK	ANGLE	MIN DEAD LOAD (Dmin)						SDL						DEAD LOAD (DL) = Dmin + SDL						LIVE LOAD (LL)						DL + LL					
		P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)
BW1	0	2300	0	-900	0	0	0	700	0	-500	0	0	0	3000	0	-1400	0	0	0	400	0	-200	0	0	0	3400	0	-1600	0	0	0
BW2	0	3200	0	-600	0	0	0	1100	0	-300	0	0	0	4300	0	-900	0	0	0	700	0	-100	0	0	0	5000	0	-1000	0	0	0
BW3	0	3200	0	-600	0	0	0	900	0	-300	0	0	0	4100	0	-900	0	0	0	600	0	-100	0	0	0	4700	0	-1000	0	0	0
BW4	0	2600	0	-300	0	0	0	400	0	-100	0	0	0	3000	0	-400	0	0	0	400	0	-100	0	0	0	3400	0	-500	0	0	0
BW5	0	11300	0	-2500	0	0	0	2200	0	2600	0	0	0	13500	0	100	0	0	0	4000	0	-3300	0	0	0	17500	0	-3200	0	0	0
BW6	90	4000	0	-2200	0	0	0	1000	0	-800	0	0	0	5000	0	-3000	0	0	0	1100	0	-600	0	0	0	6100	0	-3600	0	0	0
BW7	0	19600	0	-11400	0	0	0	5800	0	1800	0	0	0	25400	0	-9600	0	0	0	6000	0	-14700	0	0	0	31400	0	-24300	0	0	0
BW8	0	3400	0	500	0	0	0	800	0	300	0	0	0	4200	0	800	0	0	0	600	0	100	0	0	0	4800	0	900	0	0	0
BW9	0	2000	0	-200	0	0	0	200	0	-100	0	0	0	2200	0	-300	0	0	0	200	0	-200	0	0	0	2400	0	-500	0	0	0
BW10	0	2000	0	-100	0	0	0	400	0	-100	0	0	0	2400	0	-200	0	0	0	100	0	-200	0	0	0	2500	0	-400	0	0	0
BW11	0	1700	0	-100	0	0	0	400	0	100	0	0	0	2100	0	0	0	0	0	200	0	-100	0	0	0	2300	0	-100	0	0	0
BW12	90	1600	0	-400	0	0	0	300	0	-200	0	0	0	1900	0	-600	0	0	0	200	0	-100	0	0	0	2100	0	-700	0	0	0
BW13	90	1500	0	-400	0	0	0	400	0	-200	0	0	0	1900	0	-600	0	0	0	200	0	-100	0	0	0	2100	0	-700	0	0	0
TW6A	90	4700	0	200	0	0	0	2000	0	200	0	0	0	6700	0	400	0	0	0												









BD REF :  
BIM REF :

REV	DATE	AMENDMENT

PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
FOUNDATION MONITORING PLAN

SCALE AS SHOWN@A1

DRAWING NO. P009 REV. NO.

SOURCE ---

90mm (W) x 40mm (H) space for COMPANY LOGO

90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

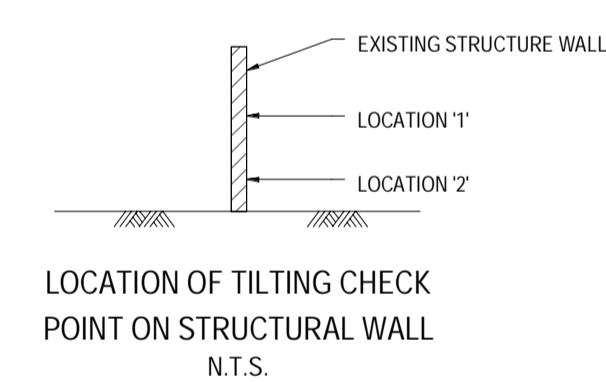
BD'S OFFICIAL USE

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

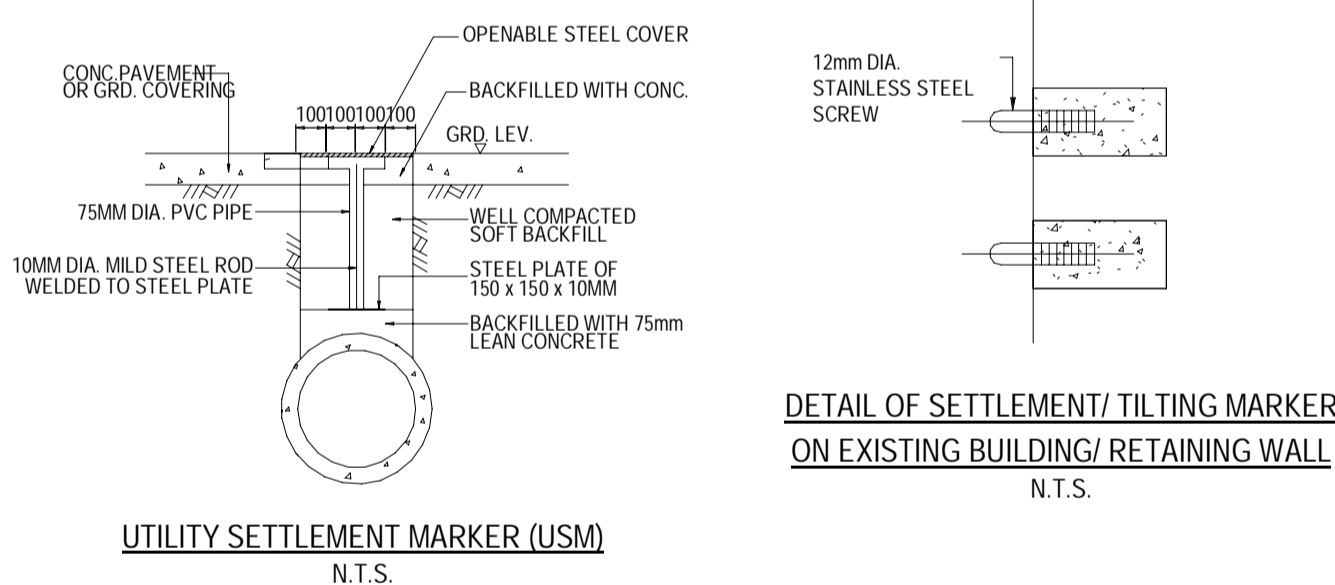
**2 FOUNDATION MONITORING PLAN**  
1 : 200

**AAA TRIGGER LEVELS**

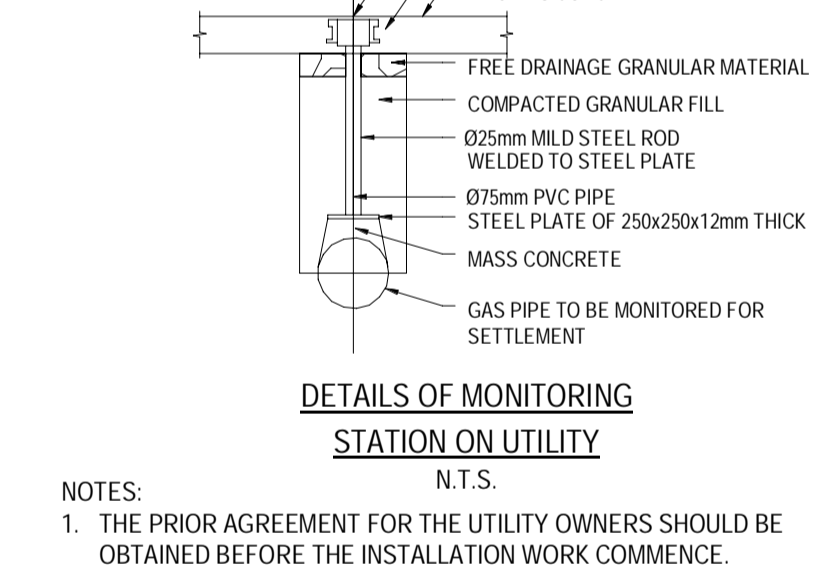
INSTRUMENT	CRITERION	ALERT	ALARM	ACTION
GROUND SETTLEMENT CHECK POINT (S1-S10)	TOTAL SETTLEMENT	12mm	18mm	20mm
UTILITY SETTLEMENT CHECK POINT (U1-U12)	TOTAL SETTLEMENT	12mm	18mm	25mm
TILTING CHECK POINT (T1-T11)	ANGULAR DISTORTION	1:1000	1:750	1:500
VIBRATION CHECK POINT (V1 TO V11)	PEAK PARTICLE VELOCITY	7.5mm/s	10mm/s	15mm/s
BUILDING SETTLEMENT CHECK POINT (BS1-BS12)	TOTAL SETTLEMENT	12mm	18mm	25mm
STANDPIPE/PIEZOMETER	RISE OF GROUND WATER LEVEL	+2.0mPD	+2.25mPD	+2.5mPD
STANDPIPE/PIEZOMETER OUTSIDE COFFERDAM	DRAIN OF GROUND WATER LEVEL	-0.4mPD	-0.5mPD	-0.6mPD



LOCATION OF TILTING CHECK POINT ON STRUCTURAL WALL  
N.T.S.



UTILITY SETTLEMENT MARKER (USM)  
N.T.S.



DETAILS OF MONITORING STATION ON UTILITY  
N.T.S.

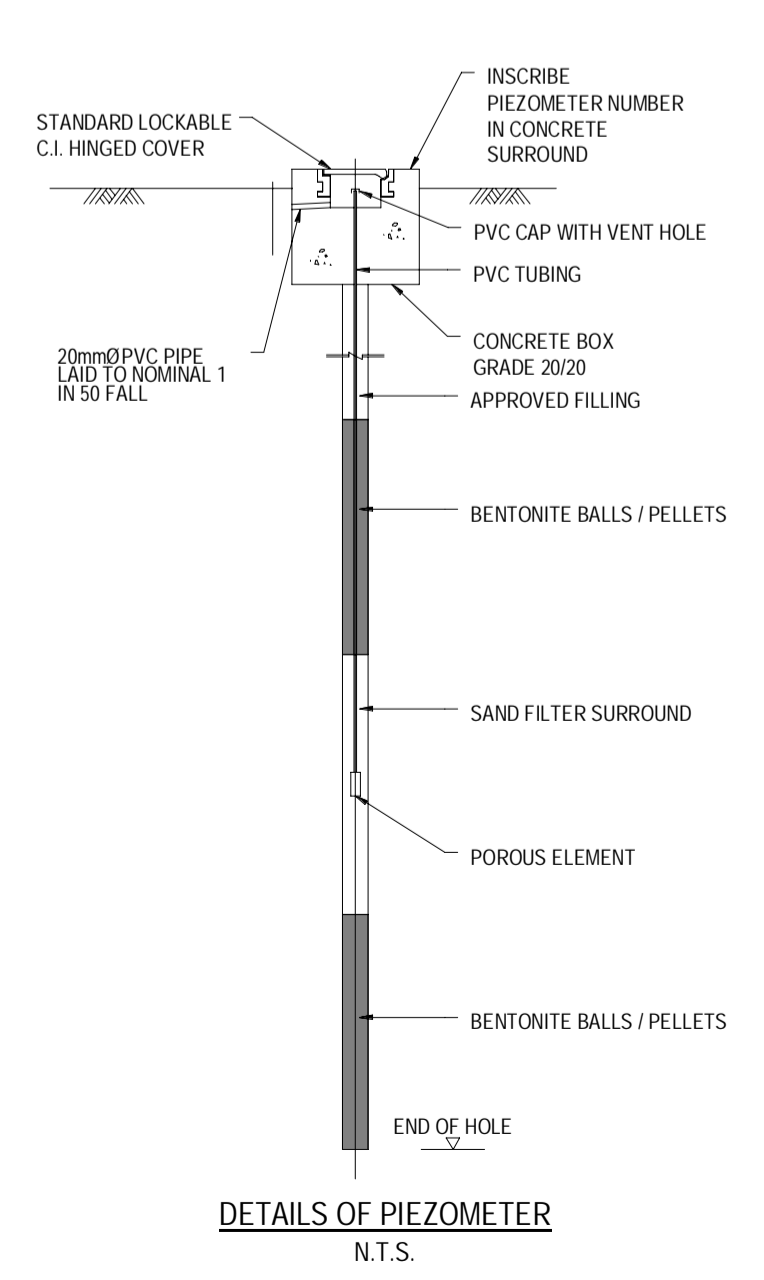
**LEGEND AND NOTES:**

- BOUNDARY LINE
- GAS --- GAS PIPE
- S WAT --- SALT WATER PIPE
- ELEC --- ELECTRIC CABLE
- FOUL --- FOUL WATER PIPE
- F WAT --- FRESH WATER PIPE
- BH2(P) BORED HOLE (WITH PIEZOMETER) (BH1 (P), BH2 (P) AND BH5 (P), BH6 (P), BH9 (P) AND BH10 (P) 6NOS.)
- BH2 BORED HOLE (BH3, BH4, BH7 AND BH8 4 NOS.)
- +4.15 EXISTING GROUND LEVEL

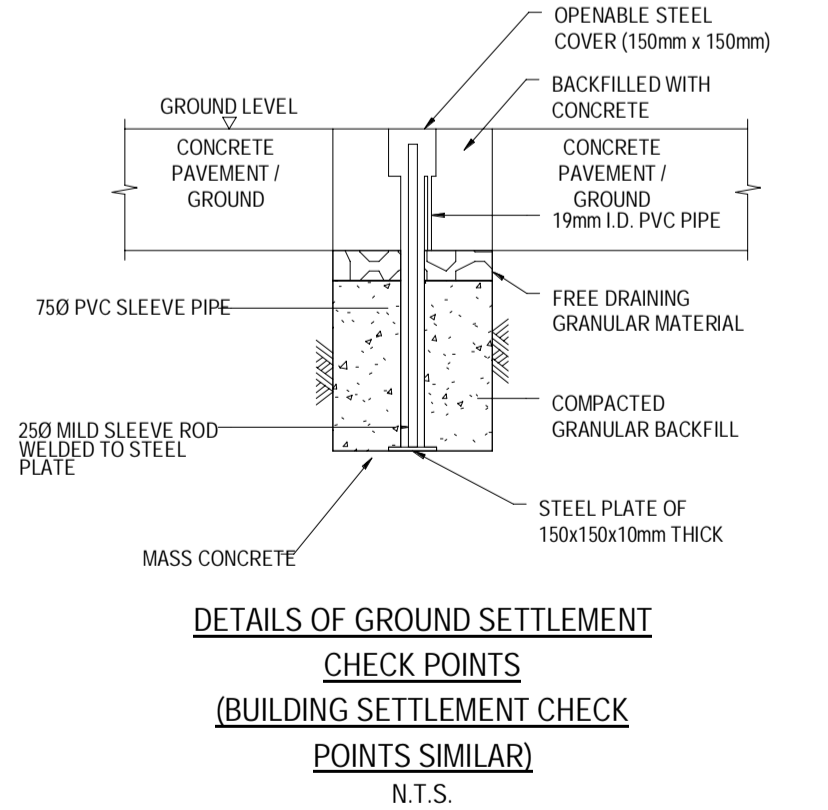
**INSTRUMENT SCHEDULE**

SYMBOL	TYPE	NUMBER
BS1	BUILDING SETTLEMENT MARKER (BS1-BS12)	12
T1	BUILDING TILTING CHECK POINT WITH VERTICAL DISPLACEMENT (T1-T11)	11
S1	GROUND SETTLEMENT CHECK POINT (S1-S10)	10
OW1	OBSERVATION WELL (OW1-OW14)	14
P1	PUMP WELL (P1 TO P7)	7
RW1	RECHARGE WELL (RW1-RW7)	7
SP1(P)	STANDPIPE (WITH PIEZOMETER) (SP1(P) TO SP5(P))	5
U1	UTILITY SETTLEMENT MONITORING POINT ON GROUND (U1-U12)	12
V1	VIBRATION CHECK POINT (V1-V11)	11

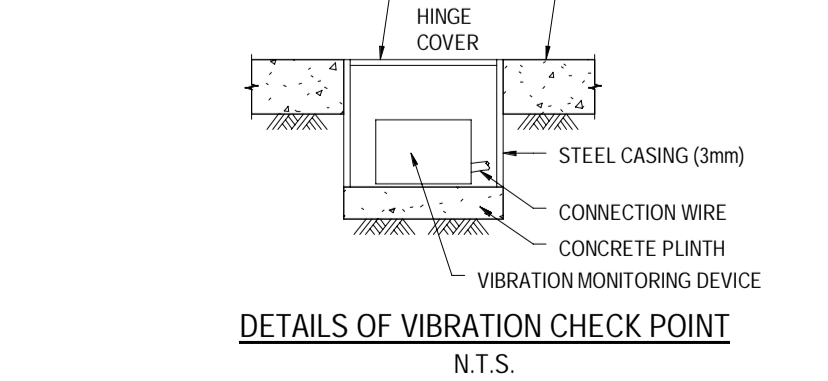
- WHEN THE ALERT LEVEL IS REACHED, RESPONSE ACTION SHALL BE TAKEN:
  - RC TO NOTIFY AND SUBMIT WRITTEN REPORT TO RSE/RGE.
  - RSE/RGE TO ASSESS EFFECT OF MOVEMENTS AND PREDICT FUTURE MOVEMENTS.
  - RSE/RGE TO AGREE WITH RC ON THE SUITABLE ACTION PLAN WHICH MAY INCLUDE THE INSTALLATION OF ADDITIONAL CHECK POINTS AND/OR INCREASING MONITORING FREQUENCY, AND THE REMEDIAL/MITIGATING MEASURES TO BE TAKEN UPON REACHING THE "ALARM LEVEL".
- WHEN THE ALARM LEVEL IS REACHED, RESPONSE ACTION SHALL BE TAKEN:
  - RC TO NOTIFY AND SUBMIT UPDATED REPORT TO RSE/RGE. THE BD AND THE RELEVANT PARTIES SHOULD BE NOTIFIED IMMEDIATELY.
  - RSE/RGE AND RC TO CONDUCT JOINT SITE INSPECTION TO DETERMINE IF ANY CONSTRUCTION ACTIVITIES SHOULD BE TEMPORARILY SUSPENDED.
  - RC TO IMPLEMENT THE NECESSARY REMEDIAL/MITIGATING MEASURES IN ACCORDANCE WITH THE AGREED ACTION PLAN.
  - RSE/RGE AND RC TO DISCUSS THE INSTRUMENT RESPONSE AND REVIEW THE EFFECTIVENESS OF THE RESPONSE ACTION.
  - RSE/RGE TO AGREE WITH RC ON THE EMERGENCY PLAN DETAILING THE MEASURES TO BE TAKEN UPON REACHING "ACTION LEVEL".
  - ANY CONSTRUCTION ACTIVITIES MAY BE SUSPENDED IF THE RESPONSE ACTION HAS BEEN IMPLEMENTED AND ON THE ADVICE OF THE RSE/RGE AS NECESSARY.
  - RSE/RGE TO REVIEW THE METHOD STATEMENTS OF THE PILING/ELS WORKS TO DETERMINE WHETHER MODIFICATION TO THE CONSTRUCTION METHODS IS REQUIRED TO PREVENT ACTION LEVEL FROM BEING REACHED.
- WHEN THE ACTION LEVEL IS REACHED, RESPONSE ACTION SHALL BE TAKEN:
  - ALL WORKS THAT WILL CAUSE GROUND MOVEMENT ARE TO BE CEASED.
  - RC TO NOTIFY AND CARRY OUT A JOINT SITE INSPECTION WITH THE RSE/RGE IMMEDIATELY. THE BD AND THE RELEVANT PARTIES SHOULD BE NOTIFIED IMMEDIATELY.
  - RC TO IMPLEMENT THE NECESSARY EMERGENCY MEASURES IN ACCORDANCE WITH THE AGREED EMERGENCY PLAN.
  - RC TO SUBMIT AN INCIDENT REPORT TO RSE/RGE AND THE BD DETAILING THE FULL HISTORY OF THE MOVEMENTS AND REMEDIAL/EMERGENCY MEASURES IMPLEMENTED.
  - RSE/RGE TO REVIEW THE INCIDENT AND AGREE WITH RC ON FURTHER REMEDIAL AND PREVENTIVE MEASURES TO ENABLE RESUMPTION OF THE SUSPENDED WORKS.
  - CONSTRUCTION ACTIVITIES SHOULD NOT BE RESUMED UNTIL THE NECESSARY REMEDIAL AND PREVENTIVE MEASURES HAVE BEEN COMPLETED TO THE SATISFACTION OF THE BD.
  - IF THE TRIGGER VALUES AND RESPONSE ACTION ARE REVISED, THE AMENDED PLANS SHOULD BE SUBMITTED TO THE BD FOR APPROVAL. THE SUSPENDED CONSTRUCTION ACTIVITIES SHOULD NOT BE RESUMED UNTIL THE AMENDED PLANS ARE APPROVED BY THE BA AND THE CONSENT IS GIVEN.



DETAILS OF PIEZOMETER  
N.T.S.



DETAILS OF GROUND SETTLEMENT CHECK POINTS (SIMILAR)  
N.T.S.



DETAILS OF VIBRATION CHECK POINT  
N.T.S.

**GROUND INVESTIGATION TALBE OF ROCK HEAD**

DRILL HOLE MARK	ROCKHEAD LEVEL (mPD)
BH1(P)	-43
BH2(P)	-59
BH3	-38
BH4	-35
BH5(P)	-45
BH6(P)	-44
BH7	-49
BH8	-46
BH9(P)	-52
BH10(P)	-45

BD REF :

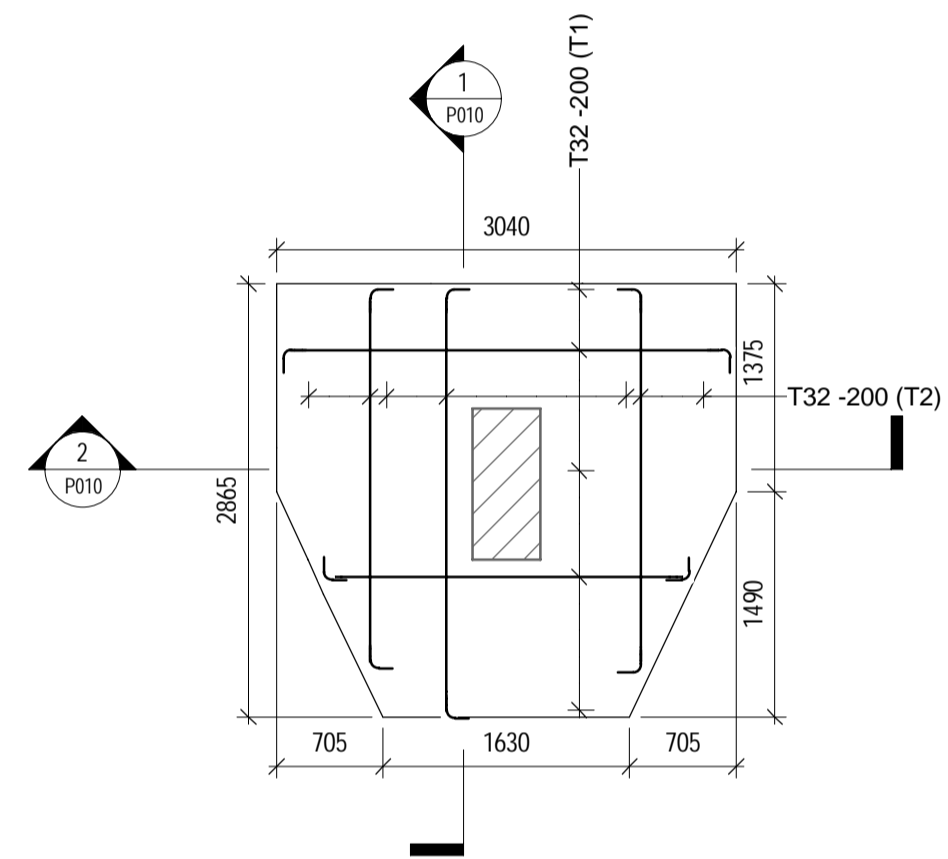
BIM REF :

**LEGEND**

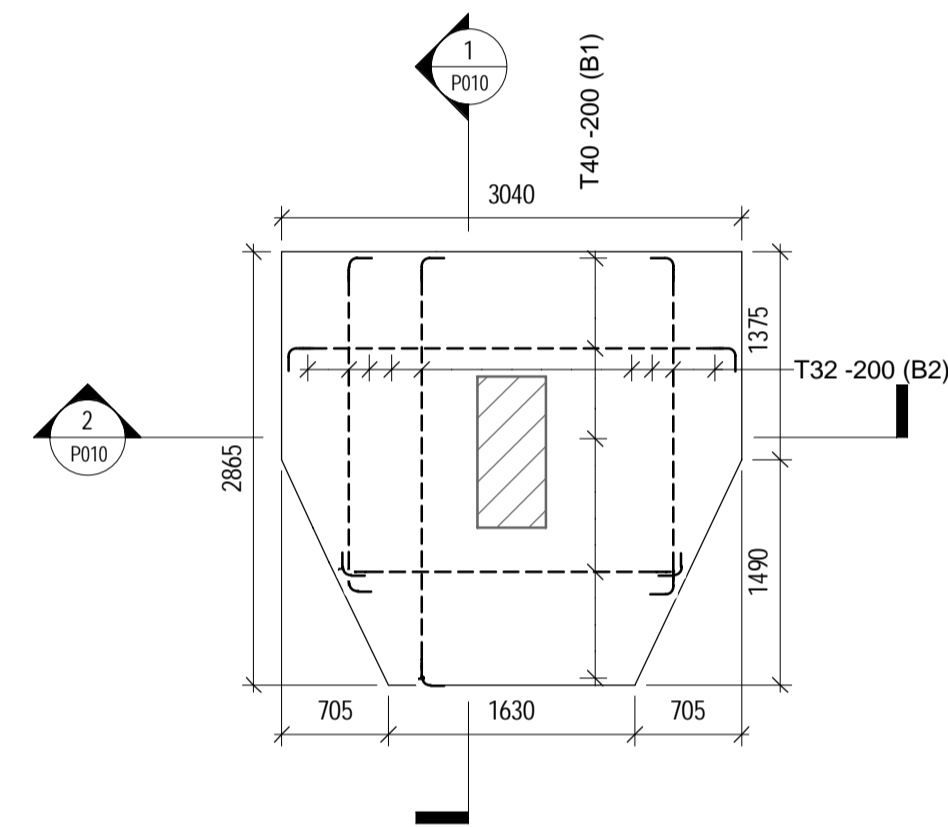


**LEGENDS FOR SHEAR LINK DIAGRAM:**

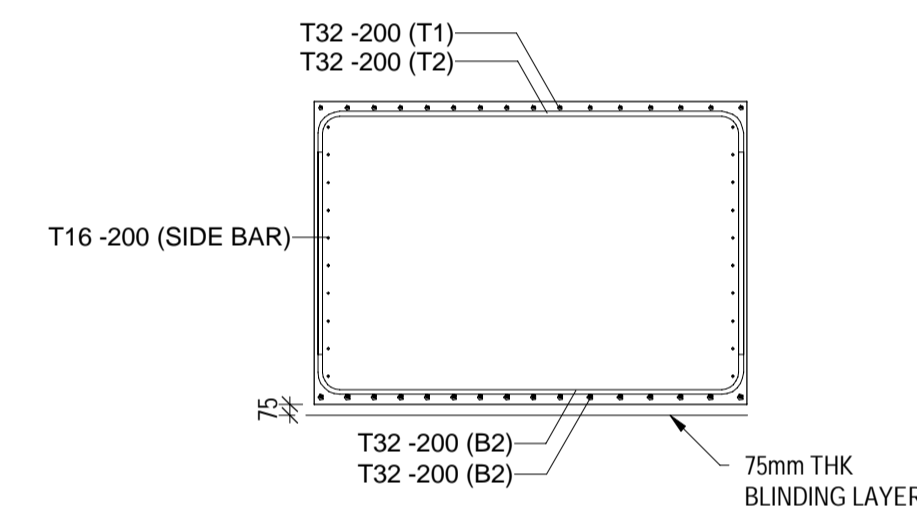
PATTERN	LINK ARRANGEMENT
<p>T16 SHEAR LINKS AT 150mm CIC BOTH WAYS</p>	<p>MAIN REINFORCEMENT</p>
<p>T16 SHEAR LINKS AT 175mm CIC BOTH WAYS</p>	



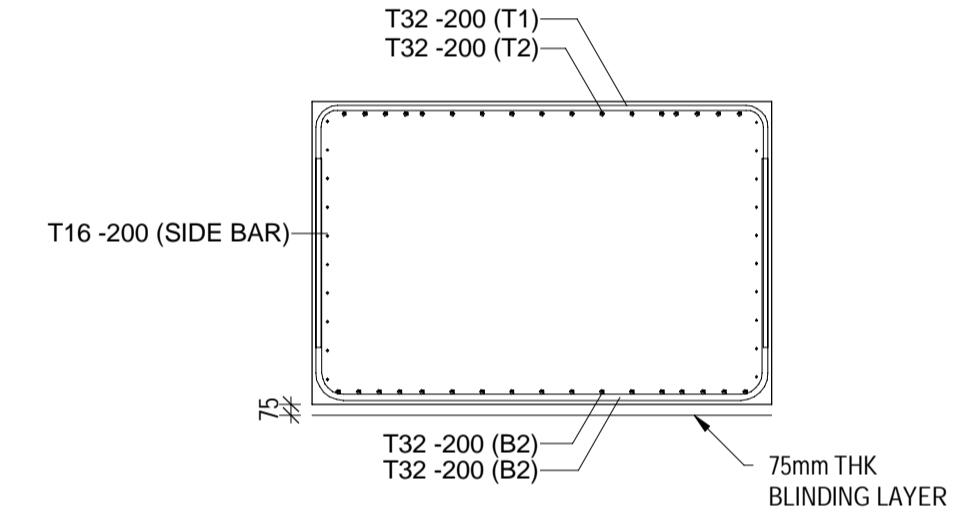
**PILE CAP F1 (2000mm THK.) (F2, F3, F4, F7 & F8 SIMILAR) TOP BAR**  
1 : 50



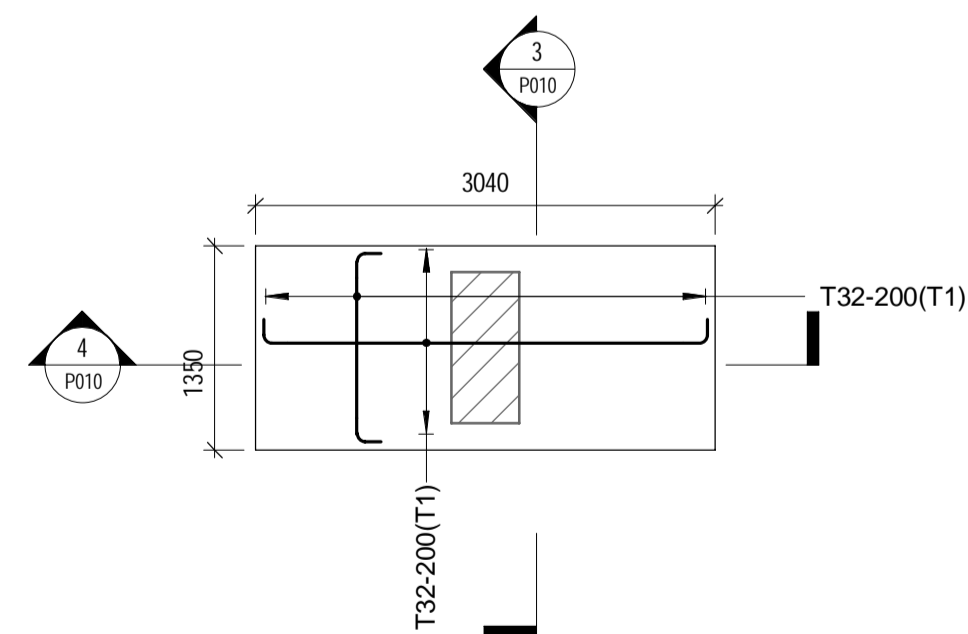
**PILE CAP F1 (2000mm THK.) (F2, F3, F4, F7 & F8 SIMILAR) BOTTOM BAR**  
1 : 50



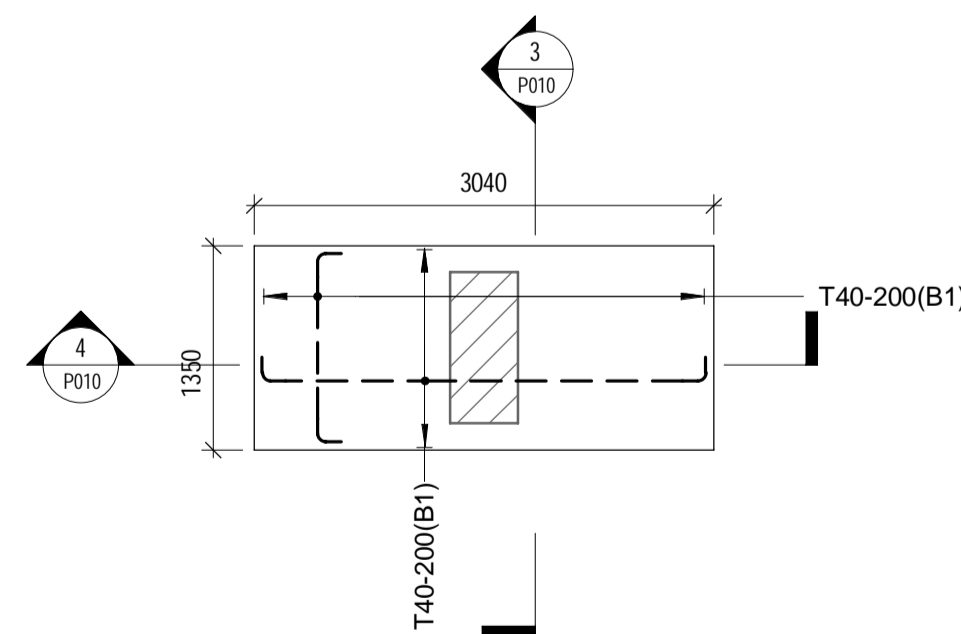
**1 SECTION 1**  
1 : 50



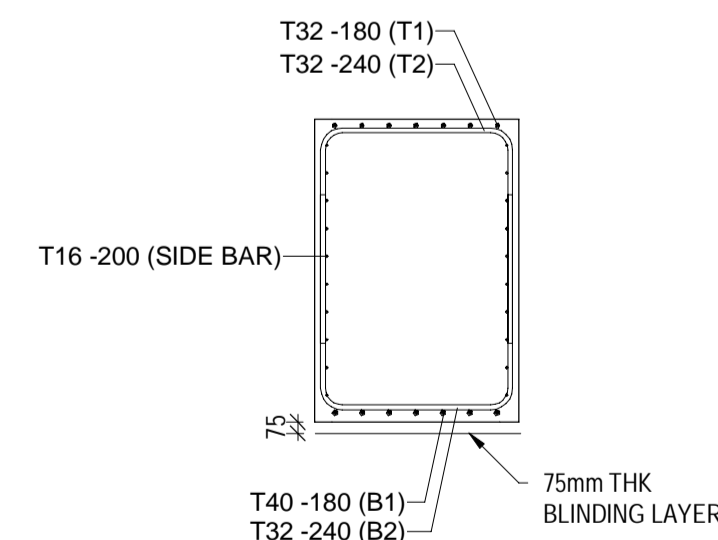
**2 SECTION 2**  
1 : 50



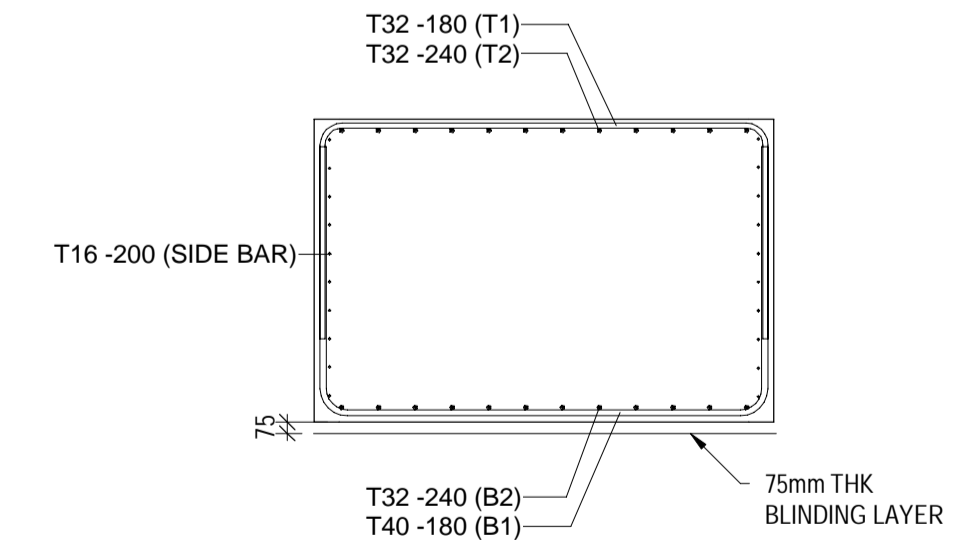
**PILE CAP F5 (2000mm THK.) (F6 SIMILAR) TOP BAR**  
1 : 50



**PILE CAP F5 (2000mm THK.) (F6 SIMILAR) BOTTOM BAR**  
1 : 50



**3 SECTION 3**  
1 : 50



**4 SECTION 4**  
1 : 50

REV DATE AMENDMENT

PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
PILE CAP REINFORCEMENT LAYOUT  
PLAN

SCALE

DRAWING NO. P010 REV. NO.

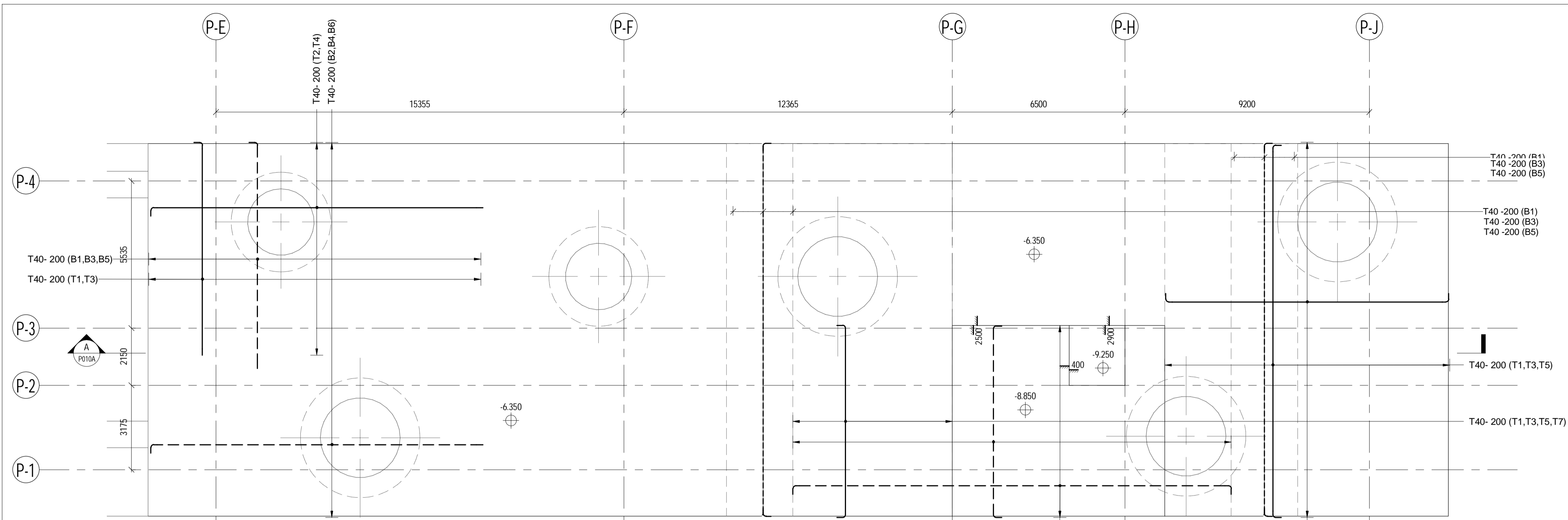
SOURCE ---

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for COMPANY LOGO

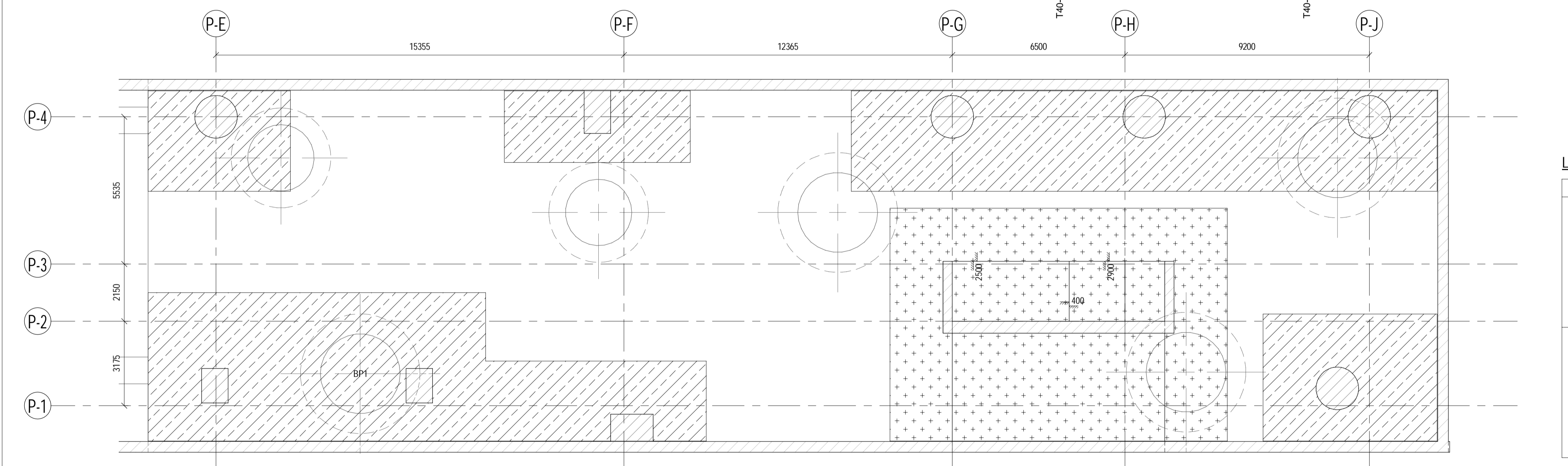
90mm (W) x 60mm (H) space  
for AP/RSE/RGE's  
signature/ and stamp chop

BD's OFFICIAL USE

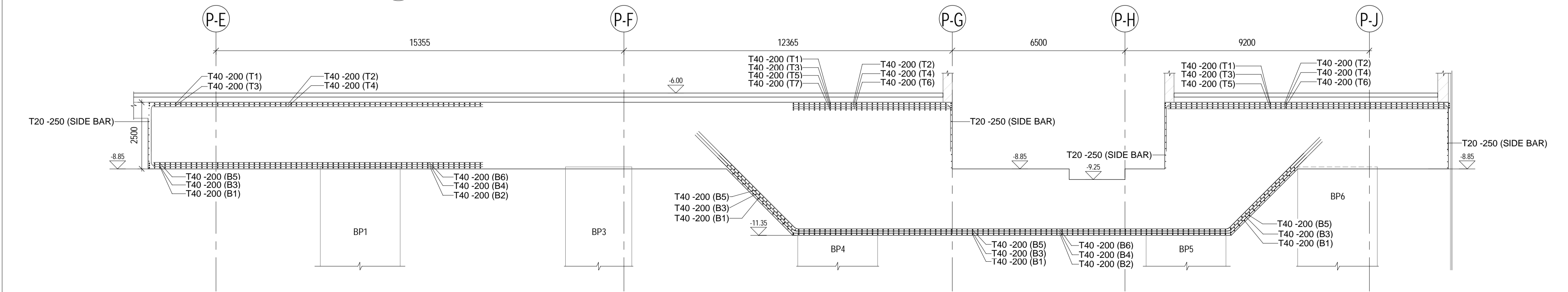
90mm (W) x 150mm (H) space  
for BD's approval stamp /  
certification of copies of  
approved plans  
(PNAP ADM-10 APP A)



**1 PILE CAP PC1 (2500mm THK.)**  
1 : 100



**3 PILE CAP F5 (2000mm THK.)**  
**(SHEAR REINFORCEMENT)**  
1 : 100



**A PILE CAP (PC1) RC SECTION A**  
1 : 100

**LEGEND**

PROPOSED COLUMN/ WALL  
(UNDER SEPARATE SUBMISSION)

**LEGENDS FOR SHEAR LINK DIAGRAM:**

PATTERN	LINK ARRANGEMENT
T16 SHEAR LINKS AT 150mm C/C BOTH WAYS	MAIN REINFORCEMENT
T16 SHEAR LINKS AT 175mm C/C BOTH WAYS	

BD REF :  
BIM REF :

REV	DATE	AMENDMENT

PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
PILE CAP REINFORCEMENT LAYOUT  
PLAN (2 OF 2)

SCALE 1 : 100@A1

DRAWING NO. P010A REV. NO. ---

SOURCE ---

90mm (W) x 40mm (H) space  
for COMPANY LOGO

90mm (W) x 60mm (H) space  
for AP/RSE/RGE's  
signature/ and stamp chop

BD'S OFFICIAL USE

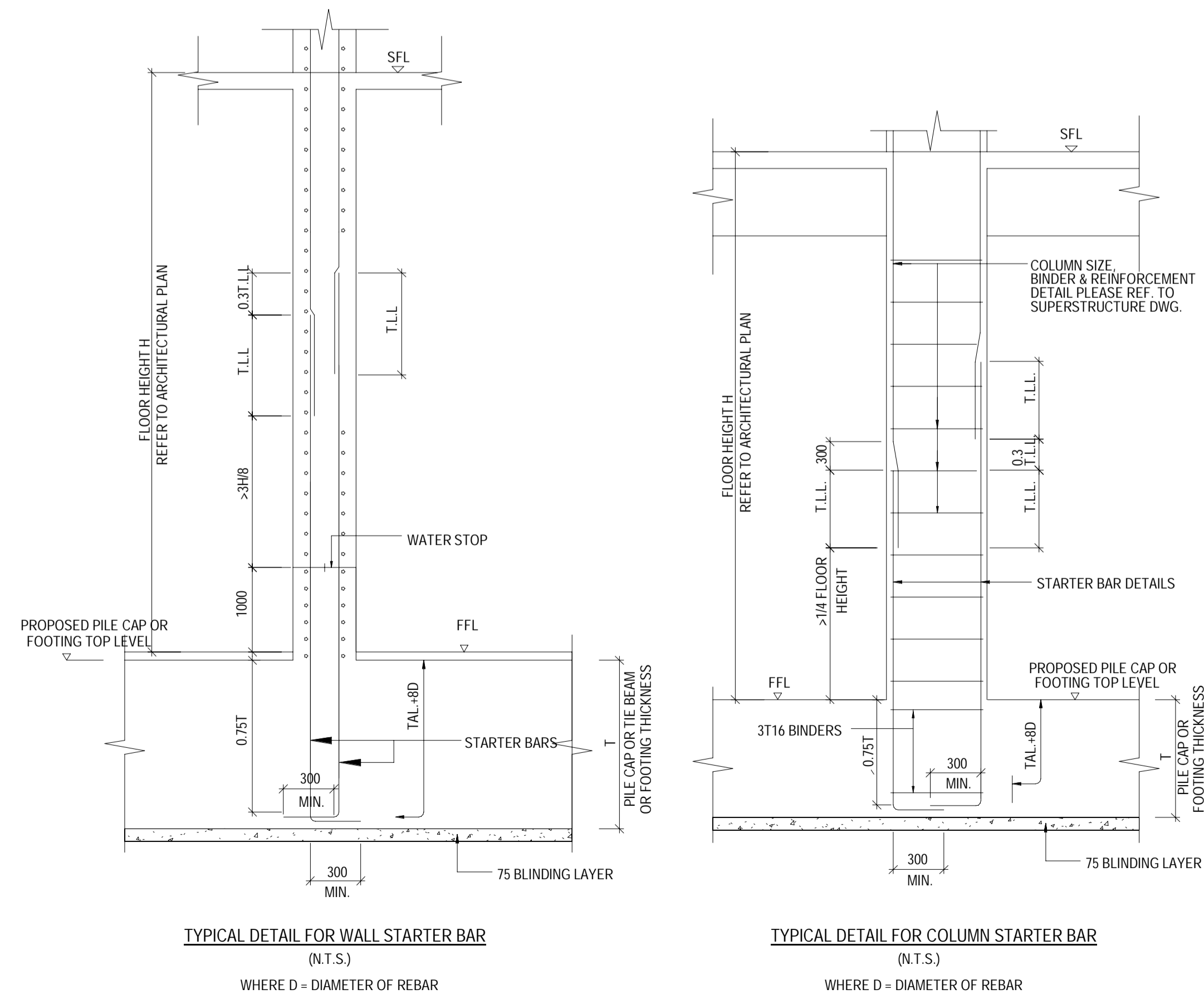
90mm (W) x 150mm (H) space  
for BD's approval stamp /  
certification of copies of  
approved plans  
(PNAP ADM-10 APP A)

G/F TO PILE CAP						
COLUMN MARK	PC1	PC2	PC3	PC4	PC5	PC6
COLUMN SIZE	450x1000	450x1000	450x1000	450x1000	450x1000	450x1000
VERT. BARS	14T40 (3.59%)	14T40 (3.83%)	14T40 (3.82%)	14T40 (3.53%)	14T40 (3.90%)	14T40 (3.83%)
G/F TO PILE CAP						
COLUMN MARK	PW7	PC8	TC1	TC2	TC3	TC4
COLUMN SIZE	300x1500	450x1000	1000x1300	1000x1300	1000x1300	1000x1600
VERT. BARS	14T40 (3.83%)	14T40 (3.91%)	48T40 (3.67%)	36T40 (4.00%)	48T40 (3.67%)	56T40 (3.97%)
G/F TO PILE CAP						
COLUMN MARK	TC5	TC7	TC8	TC9	TC10	
COLUMN SIZE	1000x1600	101600	101600	101600	101600	
VERT. BARS	56T40 (3.97%)	36T40 (4.00%)	36T40 (4.00%)	36T40 (4.00%)	36T40 (4.00%)	

WALL STARTER BAR SCHEDULE				
WALL MARK	FLOOR	THICKNESS (mm)	STARTER BAR	STEEL RATIO (%)
TW6A	PILE CAP TO B1/F	350	T40-210	2.7
TW6B	PILE CAP TO B1/F	450	T40-130	2.9
TW6C	PILE CAP TO B1/F	350	T40-210	2.7

**LEGEND:**

⊕ MECHANICAL COUPLER



BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
COLUMN AND WALL STARTER DETAILS

SCALE AS SHOWN@A1

DRAWING NO. REV. NO.

P011

SOURCE ---

90mm (W) x 40mm (H) space  
for COMPANY LOGO

90mm (W) x 60mm (H) space  
for AP/RSE/RGE's  
signature/ and stamp chop

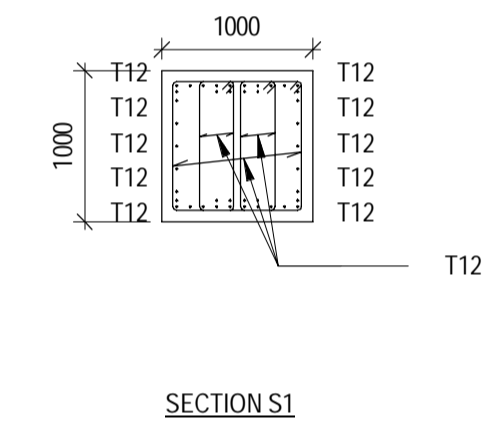
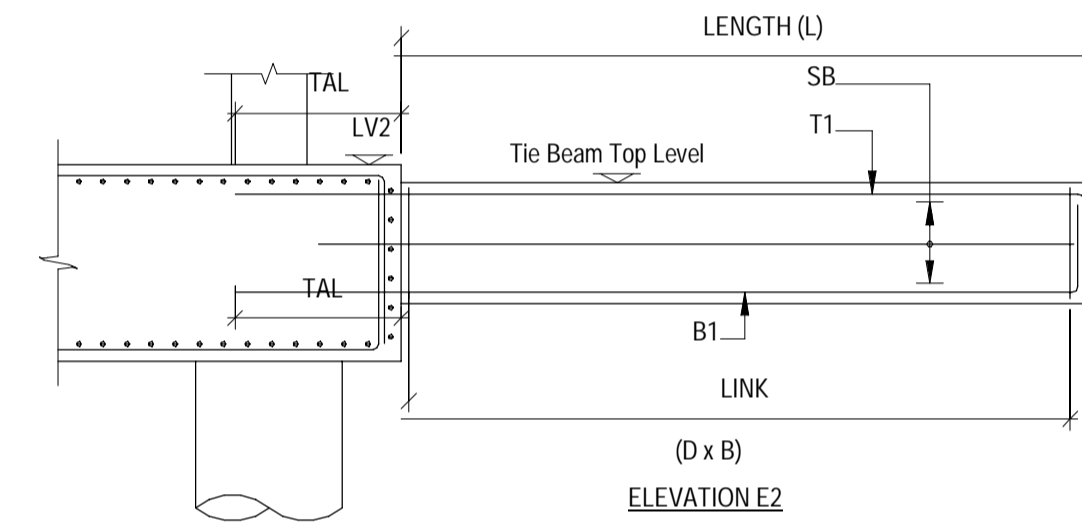
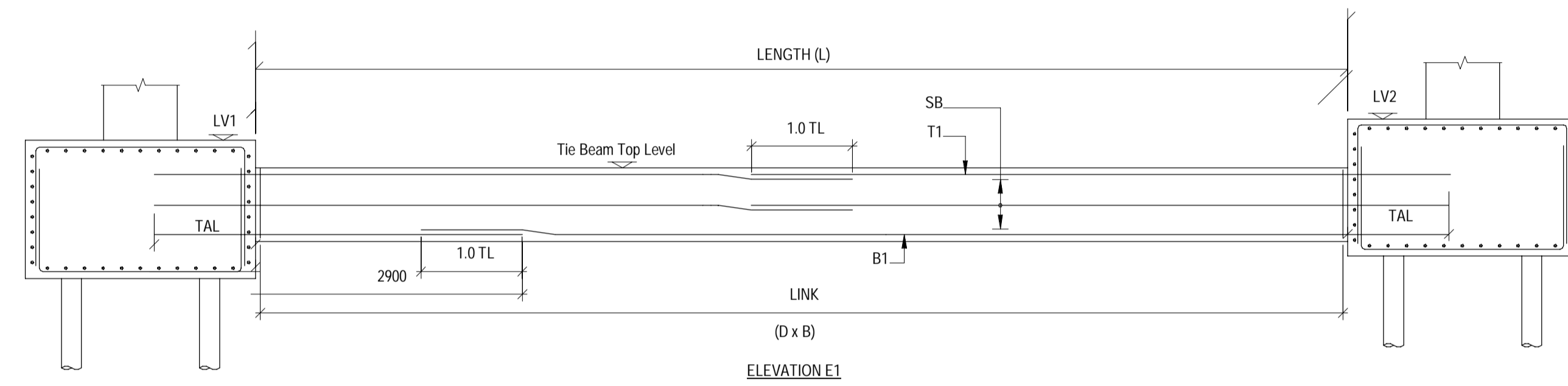
BD'S OFFICIAL USE

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for BD's approval stamp /  
certification of copies of  
approved plans  
(PNAP ADM-10 APP A)

BD REF :

BIM REF :

TIE BEAM R.C. DETAILS SCHEDULE															
TIE BEAM MARK	BEAM SIZE (D x B)	LENGTH (m)	TIE BEAM TOP LEVEL (mPD)	PILE CAP (P1)	TOP LEVEL (Lv1) (mPD)	PILE CAP (P2)	TOP LEVEL (Lv2) (mPD)	STEEL BAR				LINK	SECTION REFERENCE	ELEVATION REFERENCE	
								T1	T2	B1	B2				SB
TB1	1000 x 800	10.935	-6.35	F1	-6.35	F2	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB2	1000 x 800	7.385	-6.35	F1	-6.35	F3	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB3	1000 x 800	7.400	-6.35	F2	-6.35	F4	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB4	1000 x 800	10.936	-6.35	F3	-6.35	F4	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB5	1000 x 800	12.293	-6.35	F4	-6.35	F6	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB6	1000 x 800	11.818	-6.35	F3	-6.35	F5	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB7	1000 x 800	11.220	-6.35	F5	-6.35	F6	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB8	1000 x 800	10.941	-6.35	F6	-6.35	F8	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB9	1000 x 800	11.530	-6.35	F5	-6.35	F7	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB10	1000 x 800	9.451	-6.35	F7	-6.35	F8	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB11	1000 x 800	3.075	-8.08	F7	-8.08	-	-8.08	10T32	-	10T32	-	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E2
TB12	1000 x 800	1.450	-6.35	F5	-6.35	-	-6.35	10T32	-	10T32	-	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E2
TB13	1000 x 800	1.455	-6.35	F6	-6.35	-	-6.35	10T32	-	10T32	-	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E2
TB14	1000 x 800	3.595	-6.35	F1	-6.35	-	-6.35	10T32	-	10T32	-	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E2
TB15	1000 x 800	3.595	-6.35	F2	-6.35	-	-6.35	10T32	-	10T32	-	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E2
TB16	1000 x 800	7.065	-6.35	F8	-6.35	PC1	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB17	1000 x 800	7.045	-6.35	F7	-6.35	PC1	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1



REV	DATE	AMENDMENT
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PROJECT  
CIC SAMPLE PROJECT

DRAWING TITLE  
TIE BEAM DETAILS & SCHEUDLE

SCALE 1 : 50@A1

DRAWING NO. P012  
REV. NO.

SOURCE ---

90mm (W) x 40mm (H) space  
for COMPANY LOGO

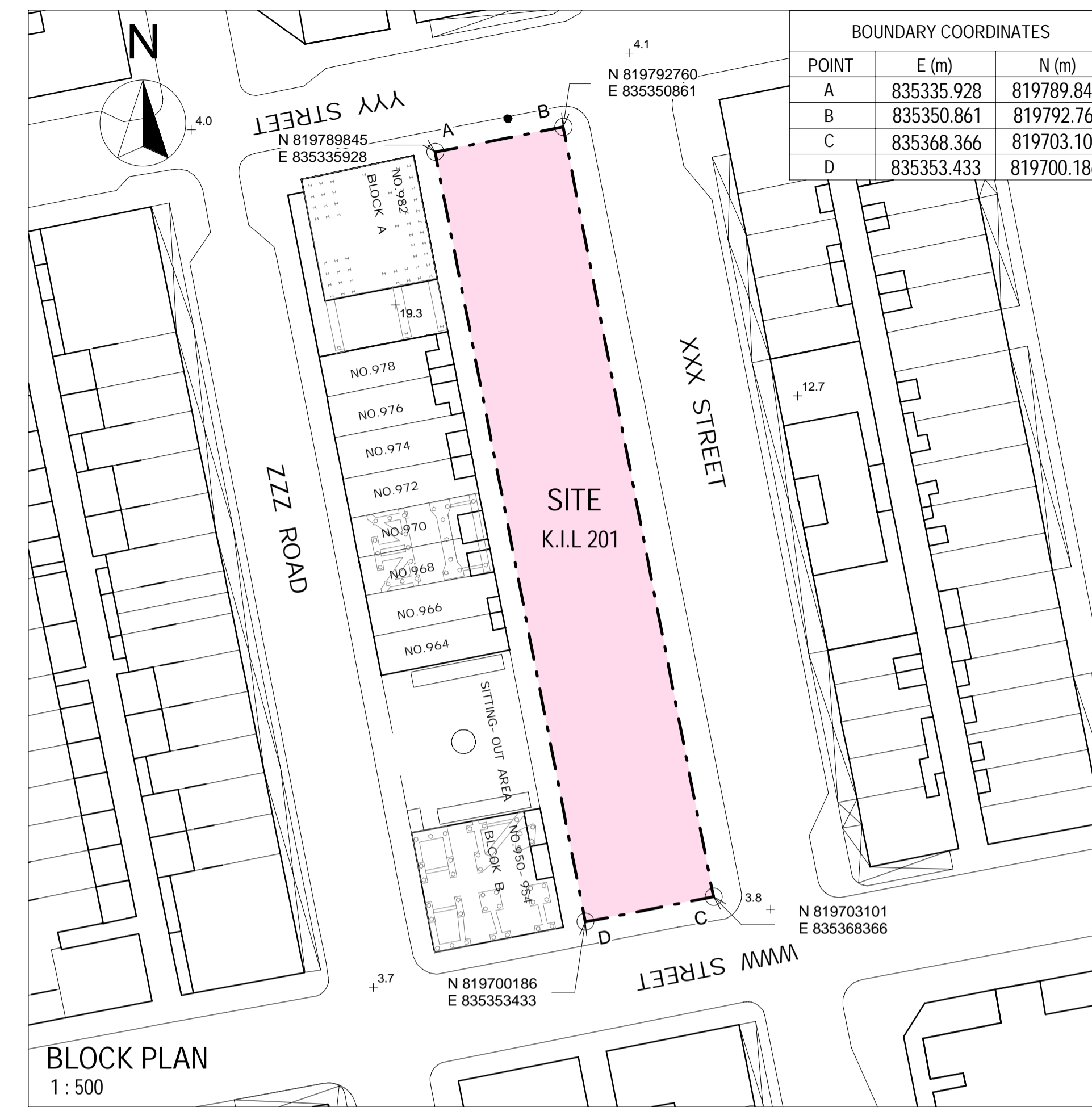
90mm (W) x 60mm (H) space  
for AP/RSE/RGE's  
signature/ and stamp chop

BD's OFFICIAL USE

90mm (W) x 150mm (H) space  
for BD's approval stamp /  
certification of copies of  
approved plans  
(PNAP ADM-10 APP A)

**LEGEND AND NOTES:**

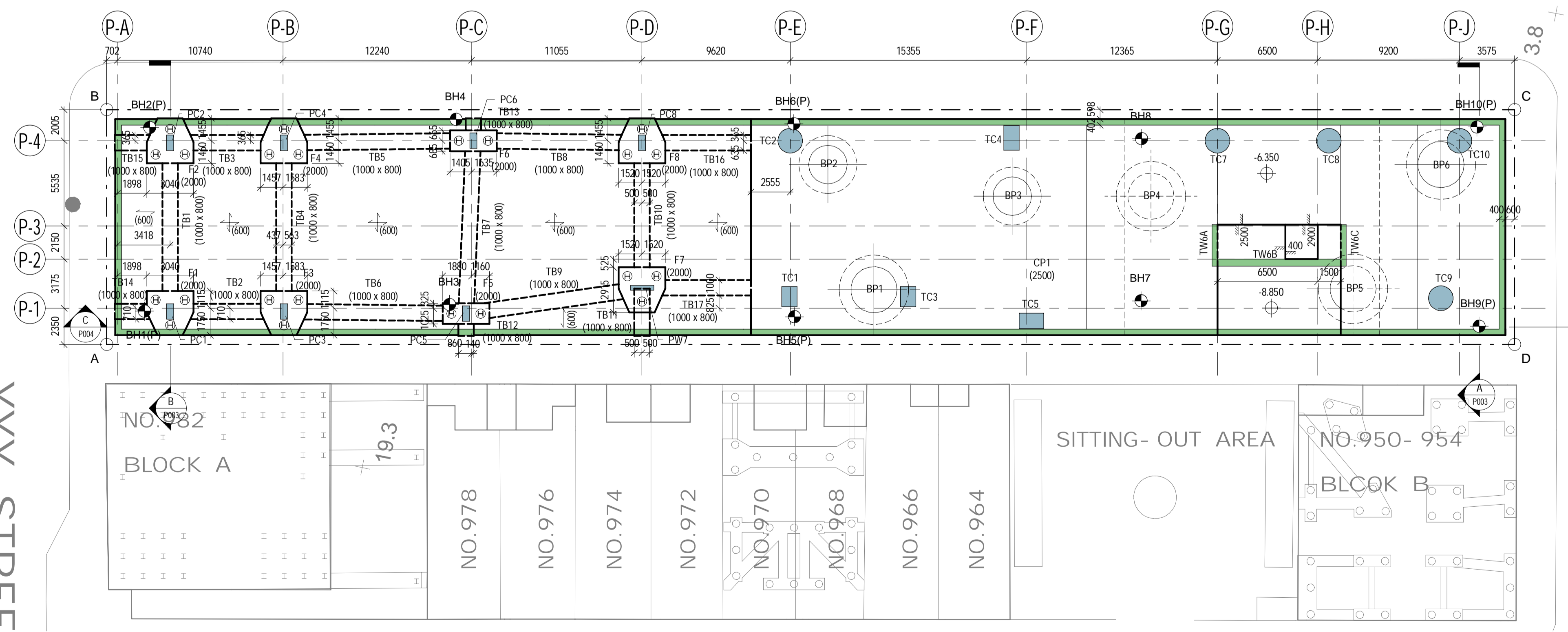
- BOUNDARY LINE
- ⊙ BORED PILE (UNDER SEPARATE SUBMISSION)
- ⊕ -6.35 CAP TOP LEVEL (mPD)
- 3040 PILE CAP
- ⊕ F2HP01 SOCKET H-PILE MARK
- ⊕ F2 SOCKET H-PILE (UNDER SEPARATE SUBMISSION)
- ⊕ F2 PILE CAP MARK
- 3040 PILE CAP
- ⊕ F6HP02 SOCKET H-PILE MARK
- ⊕ F6 SOCKET H-PILE (UNDER SEPARATE SUBMISSION)
- ⊕ F6 PILE CAP MARK
- TIE BEAM
- TB1 (1000x800)
- BASEMENT SLAB (UNDER SEPARATE SUBMISSION)
- C1 COLUMN / WALL ABOVE (UNDER SEPARATE SUBMISSION)
- BASEMENT SCREEN WALL / WALL (UNDER SEPARATE SUBMISSION)
- CP1 PILE CAP (2000mm THICK)  
CP1 - PILE CAP MARK
- 50 INFERRED ROCK HEAD LEVEL
- BH1(P) BORED HOLE (WITH PIEZOMETER)  
(BH1 (P), BH2 (P) AND BH5 (P)  
BH6 (P), BH9 (P) AND BH10 (P) 6NOS.)
- BH2 BORED HOLE  
(BH3, BH4, BH7 AND BH8 4 NOS.)
- +4.15 EXISTING GROUND LEVEL
- 8.85 STRUCTURAL FLOOR LEVEL



**XXX STREET**

**WWW STREET**

**YYY STREET**



**1 PILE CAP LAYOUT PLAN 1:200**

BD REF :		
BIM REF :		
REV	DATE	AMENDMENT
PROJECT CIC SAMPLE PROJECT		
DRAWING TITLE PILE CAP LAYOUT PLAN		
SCALE AS SHOWN@A1		
DRAWING NO. P013	REV. NO.	
SOURCE ---		
90mm (W) x 40mm (H) space for COMPANY LOGO		
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop		
BD'S OFFICIAL USE		
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)		

**GENERAL NOTES ON PILE CAP**

- ALL DESIGN SHALL COMPLY WITH HONG KONG BUILDING (CONSTRUCTION) REGULATIONS AND THE CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013, CODE OF PRACTICE FOR FOUNDATIONS
- ALL DIMENSIONS ARE IN mm AND ALL LEVEL ARE IN METERS ABOVE PRINCIPAL DATUM UNLESS OTHERWISE STATED.
- 15mm THICK BLINDING LAYER OF GRADE 10/20 CONCRETE SHALL BE LAID UNDERNEATH ALL PILE CAP
- ALL REINFORCEMENT SHALL COMPLY WITH BS4449:1997 AND CONSTRUCTION STANDARD, CS2, 1995. 'T' INDICATES HIGH TENSILE STEEL, WITH MINIMUM TENSILE STRESS EQUAL TO 500 MPa.
- CONCRETE FOR ALL PILE CAP SHALL COMPLY WITH CS1:2010 (EXCEPT SECTION 7.1). THE CONCRETE DESIGN MIX SHALL BE GRADE 45D/20 AND MINIMUM CONCRETE COVER SHALL BE 40mm.
- THE REACTIVE ALKALI OF CONCRETE EXPRESSED AS THE EQUIVALENT SODIUM OXIDE PER CUBIC METER OF OF CONCRETE SHALL NOT EXCEED 3.0kg WHEN DETERMINED IN ACCORDANCE WITH THE SPECIFIED ITEM GIVEN IN APPENDIX A OF PNAP APP-74.
- ANY ADDITIVE OR ADMIXTURE SHALL COMPLY WITH BS5075 AND SHALL NOT BE USED WITHOUT PRIOR AGREEMENT OF THE ENGINEER.
- SAMPLES OF ALL MATERIALS USED SHALL BE TESTED & TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL ALL WORKS, MATERIALS AND TESTING SUCH AS TESTING OF STEEL BAR & CONCRETE CUBES SHALL COMPLY WITH GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 1992 EDITION AND HONG KONG BUILDING (CONSTRUCTION) REGULATIONS 1997 AS STATED IN THE DRAWING.
- DETAILS SETTING OUT OF THE BUILDING SHALL REFER TO BUILDING PLANS.
- THE CONTRACTOR SHALL CHECK ALL RELEVANT DRAWINGS AND VERIFY LEVELS AND DIMENSIONS IN ADVANCE OF THE WORK AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER IMMEDIATELY.
- THE WIND LOAD OF BUILDING IS BASED ON CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.
- ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECT'S AND SERVICES ENGINEER'S DRAWINGS THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND VERIFY LEVELS AND DIMENSIONS IN ADVANCE OF THE WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- HIGH TENSILE STEEL BARS (DENOTED BY T) SHALL BE HOT ROLLED TYPE 2 DEFORMED BAR OF GRADE 500 TO CS2:2012. MILD STEEL BARS (DENOTED BY R) SHALL BE PLAIN ROUND GRADE 250 TO CS2:2012. ALL REINFORCEMENT TO BE CUT AND BENT IN ACCORDANCE WITH BS4466.
- ALLOW SUFFICIENT STEEL CHAIRS TO SUPPORT TOP REINFORCEMENTS IN PILE CAP AND THE BEAM TO KEEP VERTICAL WALL REINFORCEMENTS IN THEIR CORRECT ALIGNMENTS. UNLESS NOTED OTHERWISE, MINIMUM LAP LENGTHS AND MINIMUM ANCHORAGE LENGTHS OF BEAM BARS AND COLUMN BARS SHALL COMPLY WITH CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013 OR AS FOLLOW, WHICHEVER IS THE GREATER.

(A) MINIMUM TENSION ANCHORAGE LENGTH (T.A.L.)

HIGH YIELD BAR DIA (mm)	DESIGNED MIX (CONC GRADE)
10	45D
12	300
16	360
20	480
25	600
32	750
40	960

(B) MINIMUM TENSION LAP LENGTH (T.L.L.)

HIGH YIELD BAR DIA (mm)	DESIGNED MIX (CONC GRADE)
(1.1L)	45D
10 (1.4L.L)	300
12 (2.0L.L)	420
16 (1.1L)	600
20 (1.4L.L)	360
25 (2.0L.L)	510
32 (1.1L)	720
40 (1.4L.L)	480
40 (2.0L.L)	680
40 (1.1L)	600
20 (1.4L.L)	840
25 (2.0L.L)	1200
32 (1.1L)	750
40 (1.4L.L)	1050
40 (2.0L.L)	1500
32 (1.1L)	960
40 (1.4L.L)	1350
40 (2.0L.L)	1920
32 (1.1L)	1200
40 (1.4L.L)	1680
40 (2.0L.L)	2400

NOTES:

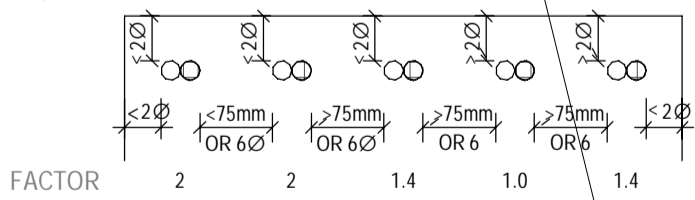
- TENSION LAP LENGTH (T.L.) NORMALLY EQUAL TO LAP LENGTH (L.L)
- LAP LENGTH FOR UNEQUAL SIZE BARS JULY BE BASED UPON THE SMALLER BAR.
- (1.0L.L) APPEARS ON TOP MOST LAYERS OF STEEL BARS ONLY.

**FOR REFERENCE ONLY**

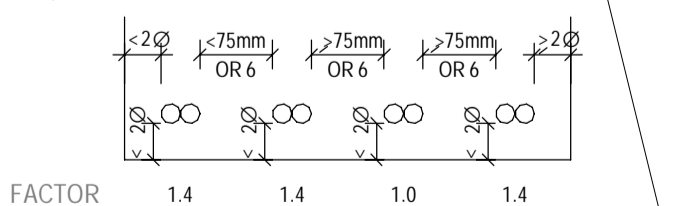
(C) SPECIAL CASE FOR TENSION LAP LENGTH

- WHERE A LAP OCCURS AT THE TOP OF A SECTION AS CAST AND THE MINIMUM COVER IS LESS THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 1.4.
- WHERE A LAP OCCURS AT THE CORNER OF A SECTION AND THE MINIMUM COVER TO EITHER FACE IS LESS THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT OR, WHERE THE CLEAR DISTANCE BETWEEN ADJACENT LAPS IS LESS THAN 75mm OR SIX TIMES THE SIZE OF THE LAPPED REINFORCEMENT, WHICHEVER IS THE GREATER, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 1.4.
- IN CASE WHERE BOTH CONDITIONS (a) & (b) APPLY, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 2.0.

e.g TOP BARS AS CAST (NOTES:  $\phi$  = BAR)



e.g. BOTTOM BARS AS CAST



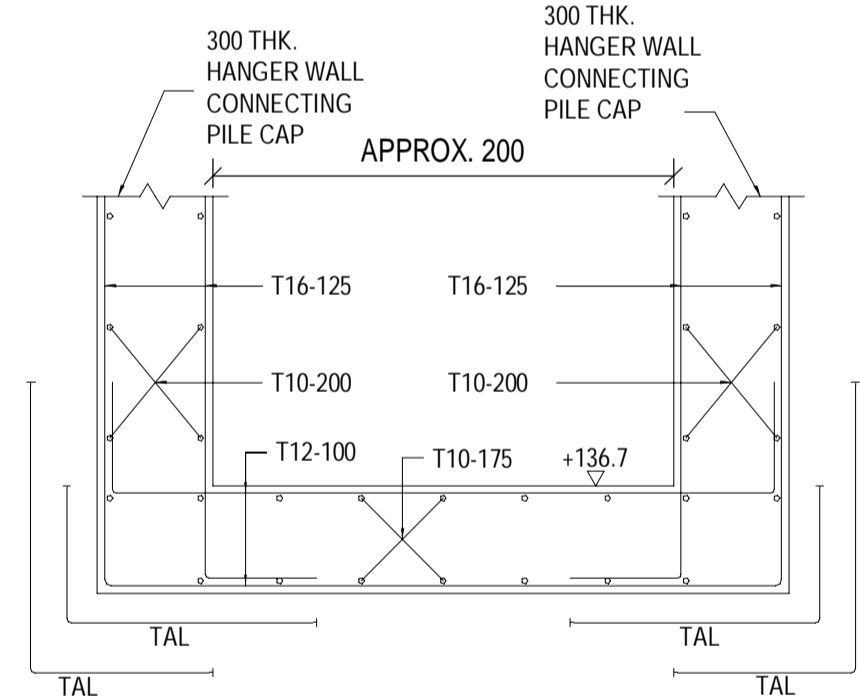
- THE PILE CAP DESIGN IS ADOPTED BY FLEXIBLE CAP ASSUMPTION.
- THE CONCRETE COVER TO REINFORCEMENT BAR OF PILE CAP SHALL BE 40mm.
- PULVERISED FUEL ASH (PFA) WILL BE USED AS A PARTIAL CEMENT REPLACEMENT IN CONCRETE OF PILE CAP:
  - PFA AS A SEPARATE CONSTITUENT MAY BE USED ONLY WITH OPC AND SHOULD COMPLY WITH BS3892: PART 1: 1982, EXCEPT THAT THE CRITERION FOR MAXIMUM WATER REQUIREMENT MAY NOT APPLY.
  - BLENDED CEMENT CONTAINING PFA SHOULD COMPLY WITH BS6588:1985 AND HAVE A NOMINAL PFA CONTENT NOT EXCEEDING 25%.
  - THE PFA CONTENT SHOULD NOT EXCEED 25% BY MASS OF THE CEMENTITIOUS CONTENT (OPC PLUS PFA) OF THE CONCRETE.

**NOTES ON PROTECTION OF EARTHWORKS AGAINST HEAVY RAINFALL**

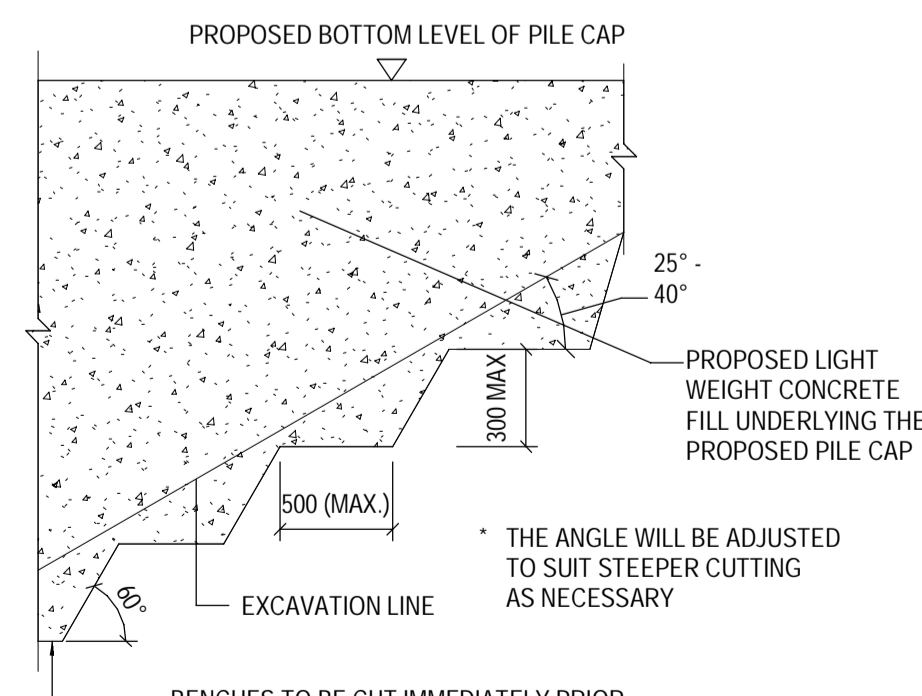
- SURFACE WATER FLOWING INTO AND OUT OF THE SITE SHALL BE INTERCEPTED AND CONDUCTED FROM THE SITE TO A SAFE DISCHARGE POINT AT EACH INTERSECTION AND ABRUPT CHANGE IN DIRECTION OF SURFACE CHANNEL. ACCESSIBLE CATCHPIT SHALL BE PROVIDED ALL DRAINAGE WORKS SHALL BE KEPT CLEAR OF DEBRIS.
- WHERE PARTIALLY COMPLETED DRAINAGE WORKS DISCHARGE WITHIN THE SITE A TEMPORARY DRAINAGE POINT SHALL BE PROVIDED TO THE DISCHARGE POINT **FOR REFERENCE ONLY**
- DURING EXCAVATION A METHOD OF WORKING SHALL BE ADOPTED IN WHICH THE MINIMUM OF BARE SOIL IS EXPOSED AT ANY TIME. EXCAVATION TO FORM THE FINAL FACE SHALL BE FOLLOWED UP IMMEDIATELY WITH SURFACE PROTECTION AND DRAINAGE WORKS.
- WHERE TEMPORARY BARE EARTH SLOPE FACES ARE UNAVOIDABLE, THEY SHALL BE PROTECTED WITH HEAVY DUTY SHEETING ADEQUATELY SECURED AT THE EDGES, SEALED AT THE CREST, AND LAPPED AT JOINTS WHERE SLOPE FACES ARE TO BE TEMPORARILY EXPOSED FOR MORE THAN TWO WEEKS, TEMPORARY DRAINS SHALL BE INSTALLED IN ADDITION TO SURFACING.

**NOTES ON COMPACTED BACKFILL (FOR INFORMATION ONLY)**

- FILL MATERIAL SHALL BE GRADED, CONTAINING NO PARTICLES COARSER THAN 200mm AND THE PERCENTAGE BY MASS PASSING 75mm BS TEST SIEVE SHALL BE 75% TO 100%.
- FILL MATERIAL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 300mm THICK, AND EACH LAYER SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY.
- FILL MATERIALS SHALL BE AT OPTIMUM MOISTURE CONTENT DURING COMPACTION THE TOLERANCE ON THE OPTIMUM MOISTURE CONTENT PERCENTAGE SHALL BE 3%, PROVIDED THAT THE FILL MATERIAL IS STILL CAPABLE OF BEING COMPACTED IN ACCORDANCE WITH THE SPECIFIED REQUIREMENTS.
- COMPACTION OF THE SOFT FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENT STIPULATED IN CLAUSE 6.46 - 6.48 OF GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, PNAP APP-8 AND PNAP APP-64.
- FILL MATERIAL SHALL **FOR REFERENCE ONLY**
- IF THE FRACTION OF FILL MATERIAL PASSING A 420 MICRO SIEVE IS PLASTIC, THE LIQUID LIMIT SHALL NOT EXCEED 45% AND THE PLASTIC LIMIT SHALL NOT EXCEED 20%.
- THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED IN ACCORDANCE WITH GEO REPORT NO 36 TEST NO 4.3 EACH SOIL TYPE SHALL BE TESTED WHEN FIRST USED AND THEREAFTER AT THE SAME TIME AS EVERY SET OF FIELD DENSITY TESTS RECORDS SHALL SHOW CLEARLY SOIL TYPE, TEST LOCATION AND ELEVATION IN mPD FOR EACH TEST TOGETHER WITH THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT RESULTS.
- THE INSITU FIELD DENSITY AND MOISTURE CONTENT SHALL BE DETERMINED IN ACCORDANCE WITH GEO REPORT NO 36 TEST NO 2.1 AND PNAP APP-8.
- ONLY LABORATORIES ACCREDITED UNDER HOKLAS FOR THE RELEVANT TESTS SHALL BE EMPLOYED IN ACCORDANCE WITH PNAP APP-64 AND THE TEST RESULTS SHALL BE ISSUED ON HOKLAS-ENDORSED TEST CERTIFICATES OR REPORTS.



TYPICAL DETAILS OF LIFT PIT SLAB (800) (N.T.S)

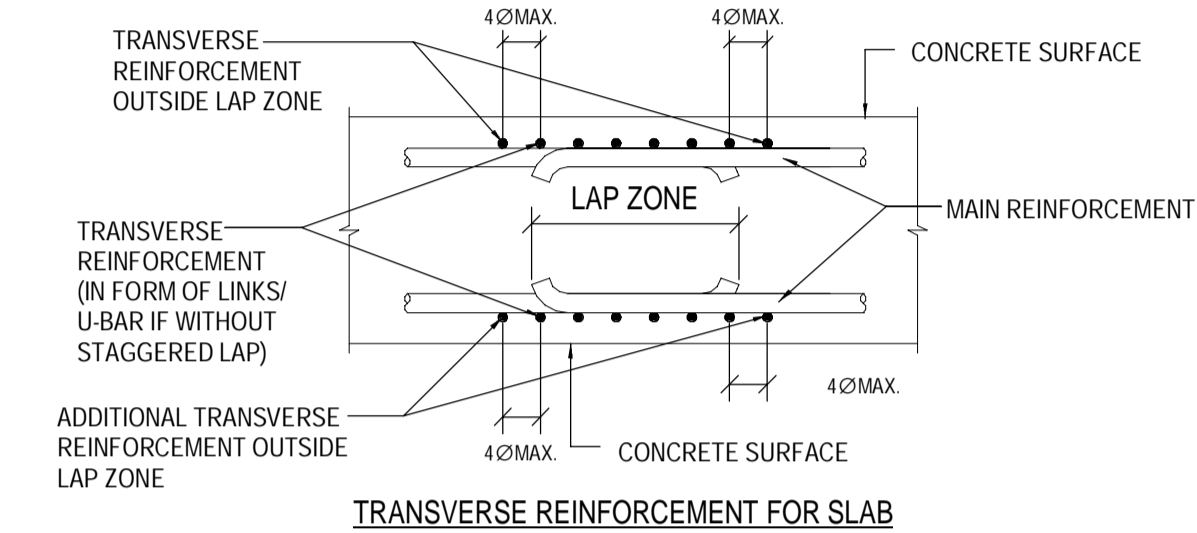


DETAILS OF BENCHING UNDERLYING THE PILE CAP (N.T.S)

**DETAILS OF MINIMUM TRANSVERSE REINFORCEMENT IN LAP ZONE**

**TALBE - TRANSVERSE REINFORCEMENT**

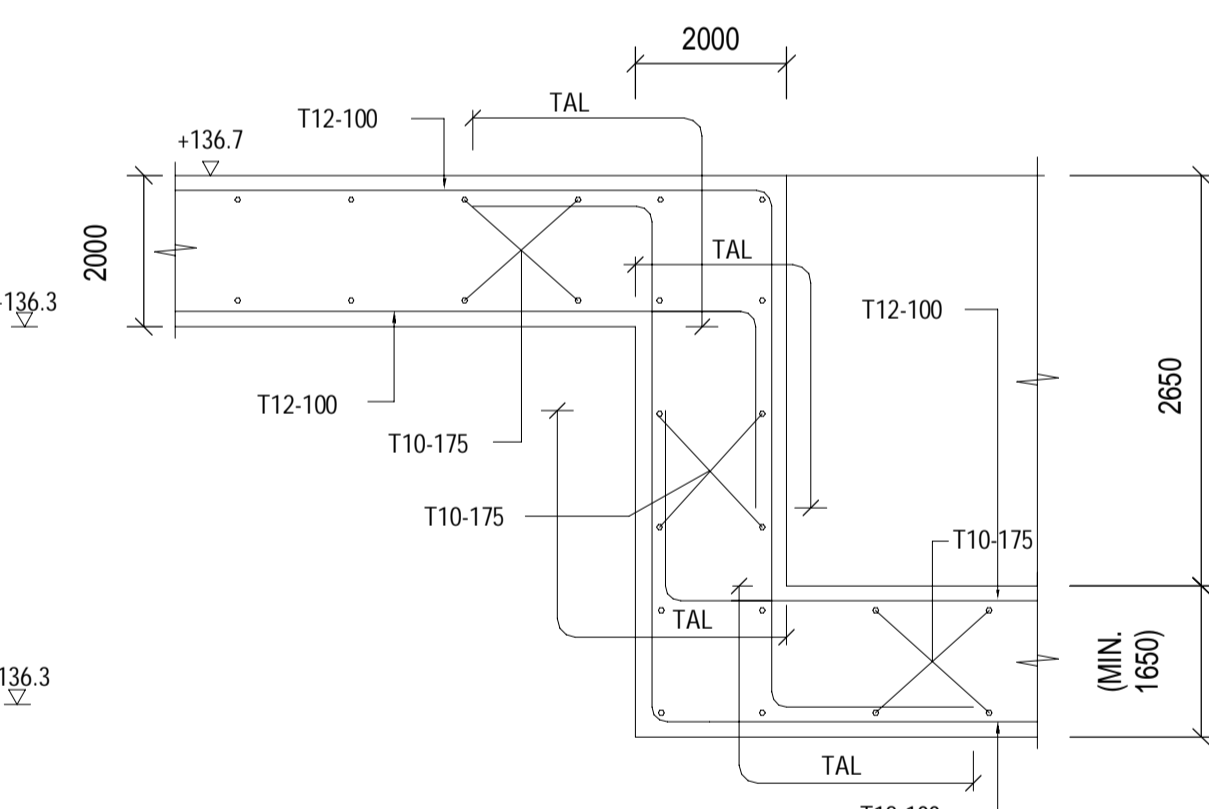
MAIN REINFORCEMENT AT LAP (THE SMALLER OF $\phi_1$ OR $\phi_2$ )	TRANSVERSE REINFORCEMENT REQUIRED WITHIN LAP ZONE			
	(WITH STAGGERED LAP)	(WITHOUT STAGGERED LAP)		
		1.0TL	1.4TL	2.0TL
< 20	NO EXTRA REQUIREMENT			
20	4T10 3T12	2x3T10-100	2x3T10-125	2x4T10-125
25	5T12	<b>FOR REFERENCE ONLY</b> 2x4T10-100		2x5T10-125
32	11T10 8T12	2x4T12-150	2x5T12-125	2x6T12-150
40	16T10 12T12	2x6T12-100	2x6T12-125	2x7T12-150
50	25T10 18T12	2x5T16-125	2x5T16-150	2x9T12-200



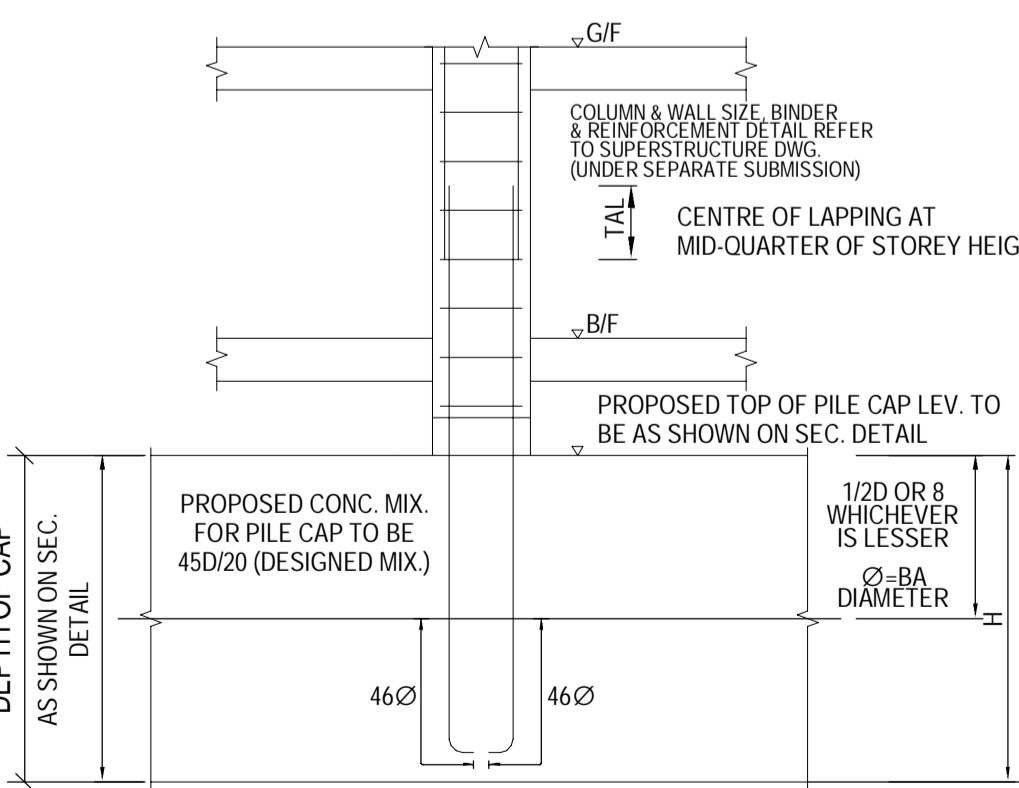
TRANSVERSE REINFORCEMENT FOR SLAB

**NOTES:**

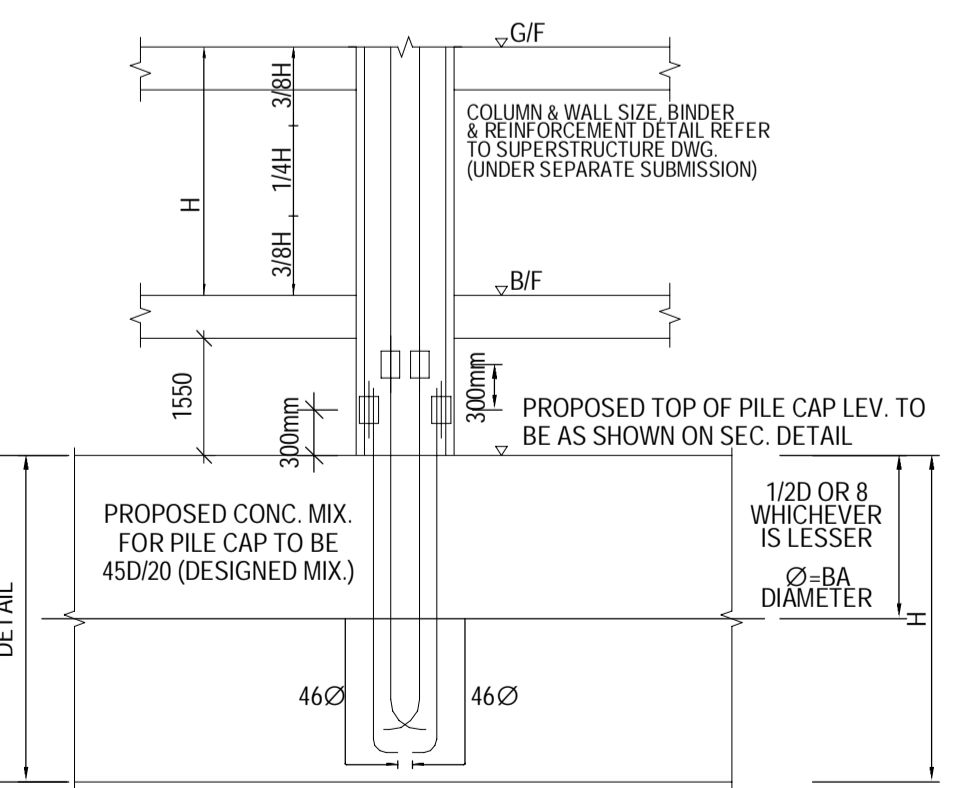
- $\phi$  IS THE SMALLER OF  $\phi_1$  AND  $\phi_2$
- TRANSVERSE REINFORCEMENT SHOULD BE PLACE PERPENDICULAR TO THE DIRECTION OF THE LAPPED REINFORCEMENT AND BETWEEN THAT AND THE SURFACE OF THE CONCRETE
- TRANSVERSE REINFORCEMENT SHALL INCLUDE HORIZONTAL BARS BARS OF WALL, BINDERS OF COLUMN OR SHEAR LINKS OF BEAM



TYPICAL DETAIL FOR LOCAL SUMP PIT AT LIFT PIT (N.T.S)

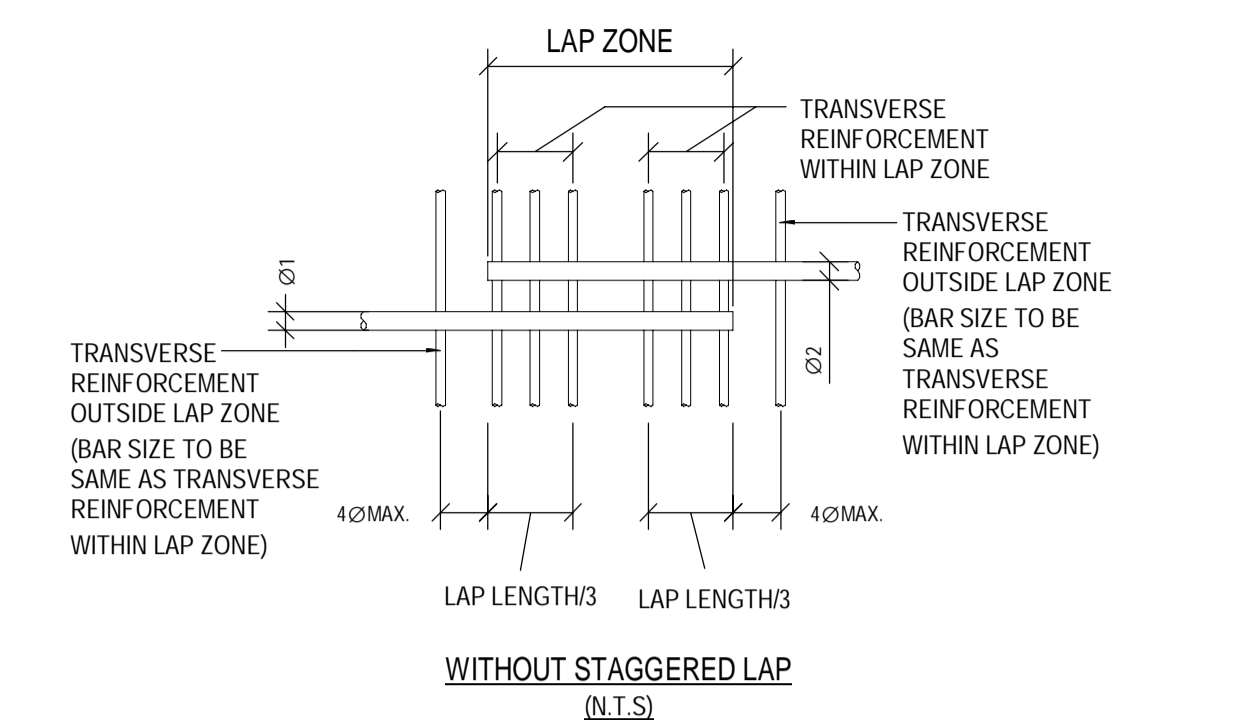


TYPICAL DETAIL FOR COLUMN & WALL STARTER BAR (FOR INFORMATION ONLY) (N.T.S)

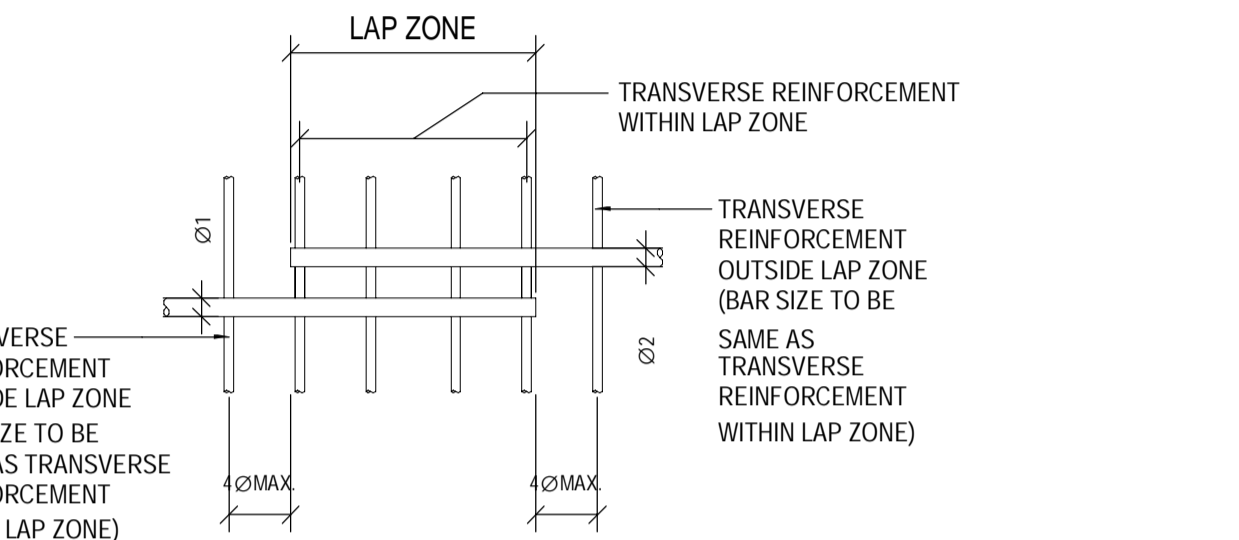


TYPICAL DETAIL FOR TYPE 2 STARTER BAR (N.T.S)

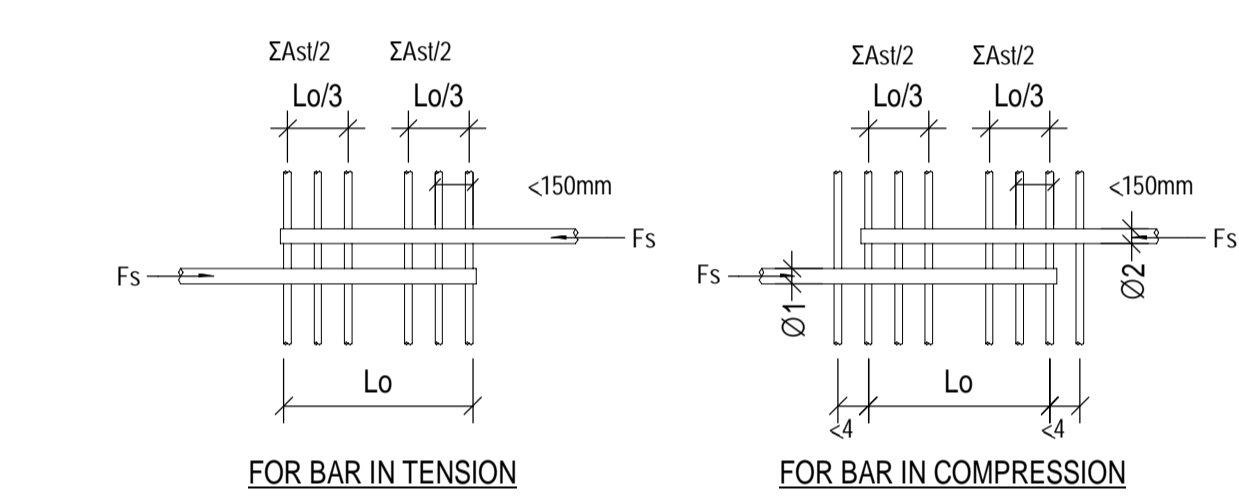
SYMBOL: (THE COUPLER FOR COLUMN AND WALL STARTER SHALL BE "BOSA" DUCTILITY COUPLER)



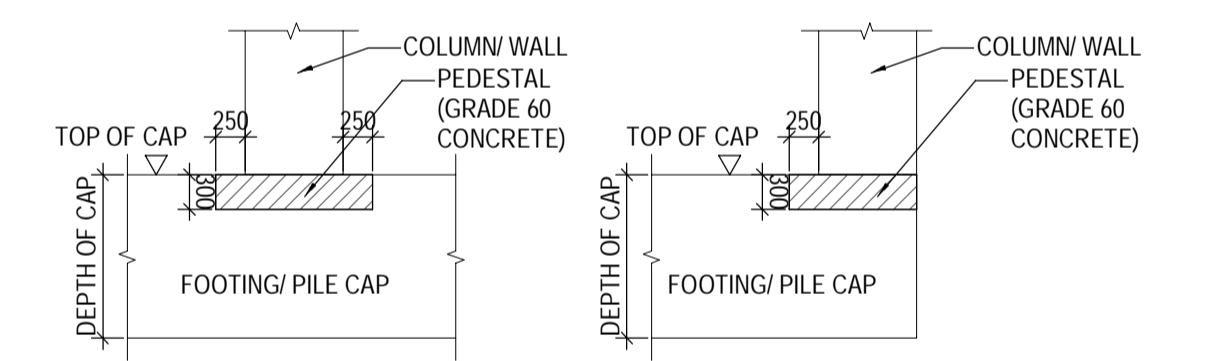
WITHOUT STAGGERED LAP (N.T.S)



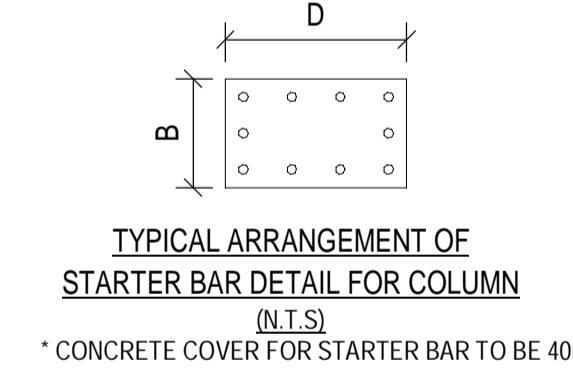
WITH STAGGERED LAP (N.T.S)



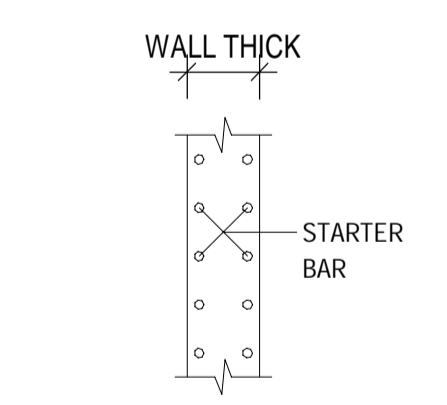
TRANSVERSE REINFORCEMENT IN LAP ZONE (FOR OUTER MOST REBAR) (N.T.S)



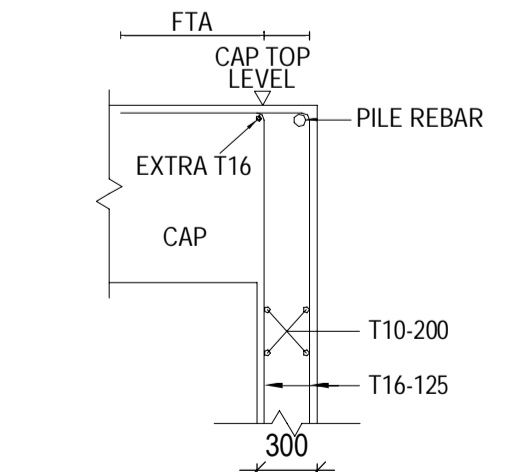
DETAIL OF PEDESTAL FOR COLUMN/WALL (N.T.S)



TYPICAL ARRANGEMENT OF STARTER BAR DETAIL FOR COLUMN (N.T.S)



TYPICAL ARRANGEMENT OF STARTER BAR DETAIL FOR WALL (N.T.S)



TYPICAL DETAIL DETAILS BETWEEN HANGER WALL AND PILE CAP (N.T.S)

BD REF :		
BIM REF :		
REV	DATE	AMENDMENT
PROJECT CIC SAMPLE PROJECT		
DRAWING TITLE GENERAL NOTES FOR PILE CAP		
SCALE 1 : 100@A1		
DRAWING NO. P014	REV. NO.	
SOURCE ---		
90mm (W) x 40mm (H) space for COMPANY LOGO		
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop		
BD'S OFFICAL USE		
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)		