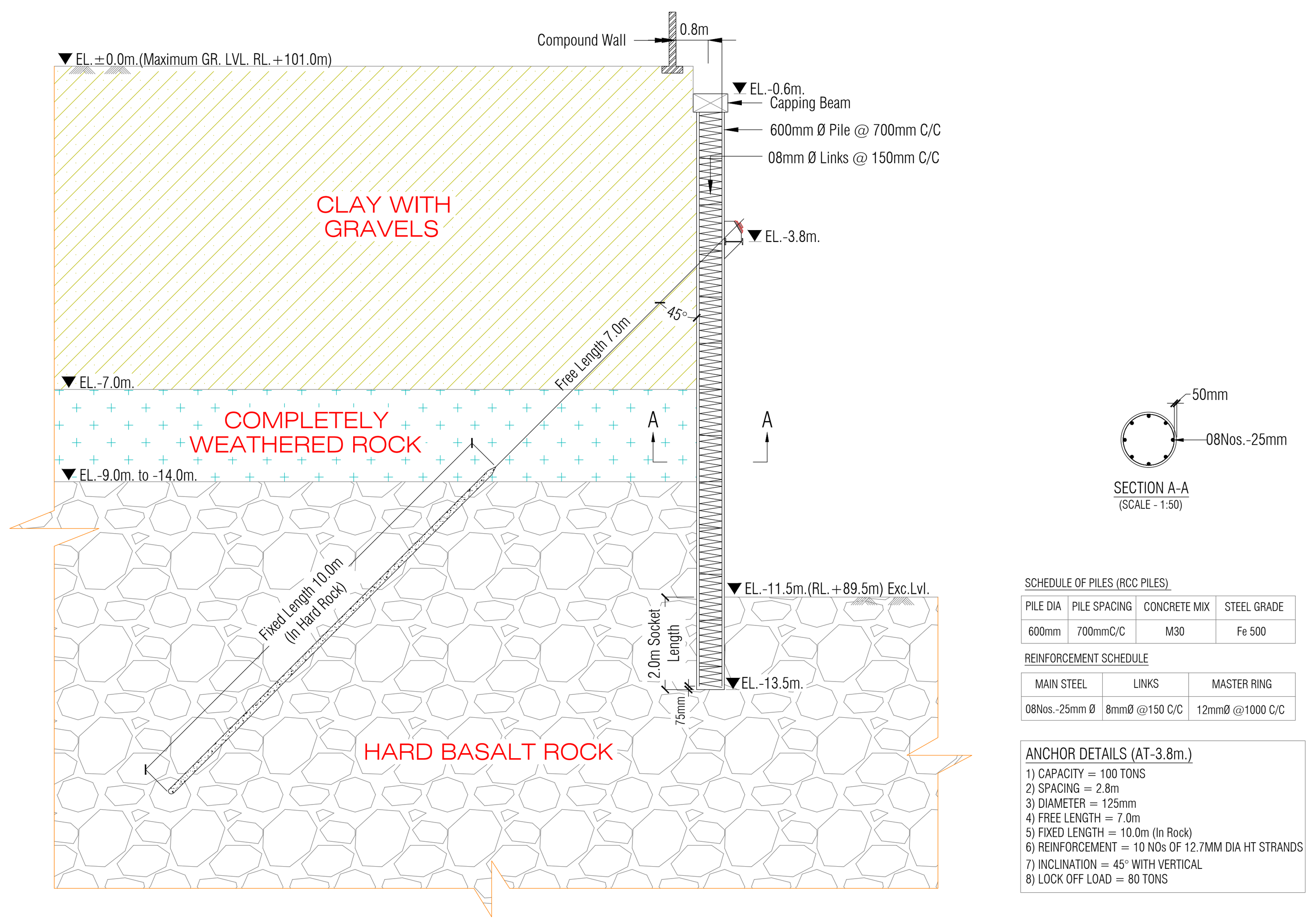
ZONE-1
OPTION - I(LARGE DIA PILES)



SCHEDULE OF PILES (RCC PILES)

PILE DIA	PILE SPACING	CONCRETE MIX	STEEL GRADE
600mm	700mmC/C	M30	Fe 500

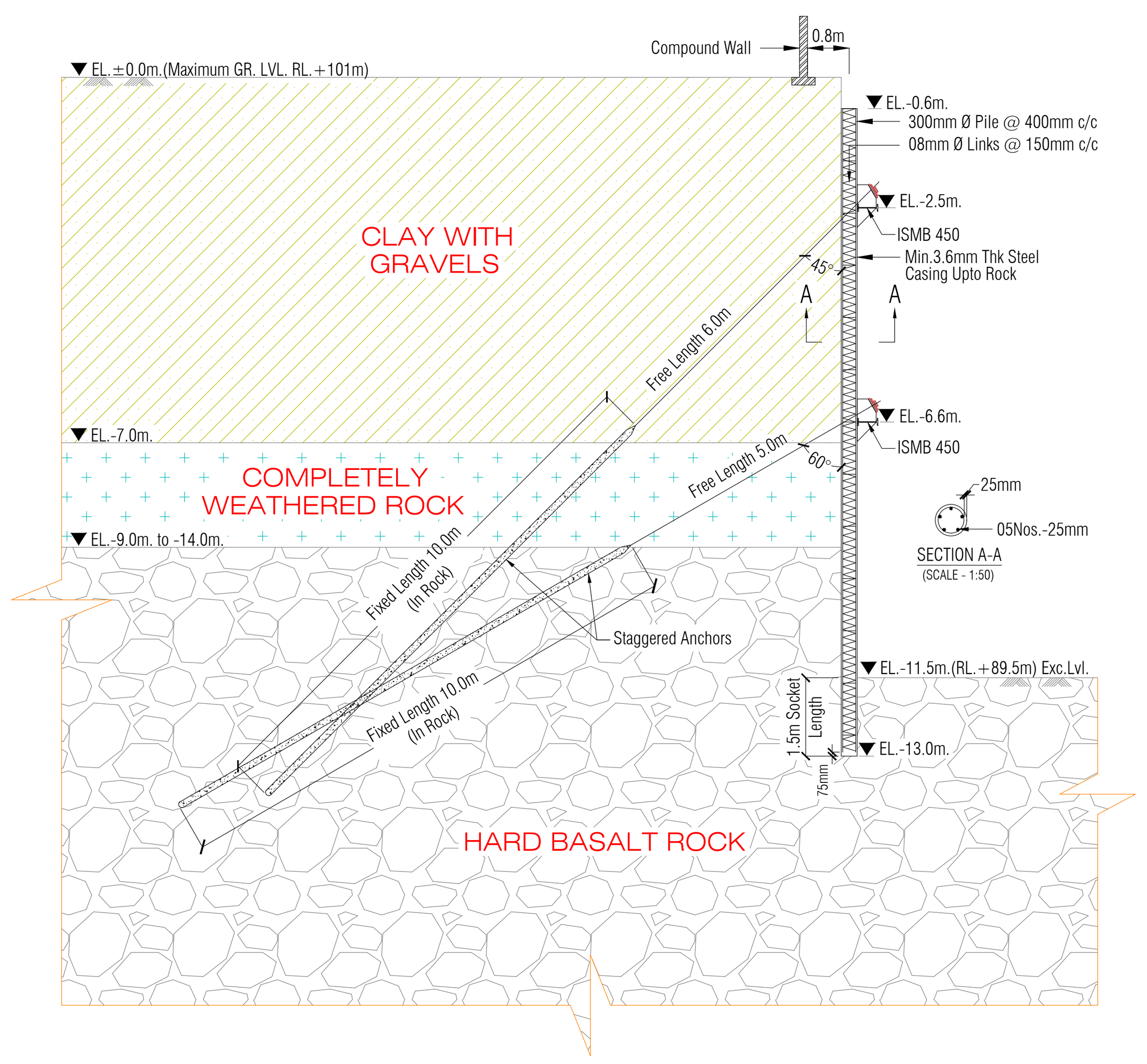
REINFORCEMENT SCHEDULE

MAIN STEEL	LINKS	MASTER RING
08Nos.-25mm Ø	8mmØ @150 C/C	12mmØ @1000 C/C

ANCHOR DETAILS (AT-3.8m.)
1) CAPACITY = 100 TONS
2) SPACING = 2.8m
3) DIAMETER = 125mm
4) FREE LENGTH = 7.0m
5) FIXED LENGTH = 10.0m (In Rock)
6) REINFORCEMENT = 10 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 45° WITH VERTICAL
8) LOCK OFF LOAD = 80 TONS

NOTE:- HYDRAULIC ROTARY RIG OF MINIMUM 180kN.m.TORQUE CAPACITY SHOULD BE UTILIZED.

ZONE-1 (OPTION - II (WITH MICROPILES)
(IF LARGE DIA PILES ENCOUNTER REFUSAL ON HARD ROCK)



SCHEDULE OF PILES (RCC PILES)

PILE DIA	PILE SPACING	CONCRETE MIX	STEEL GRADE
300mm	400mmC/C	M30 (Self Compacting Concrete)	Fe 500

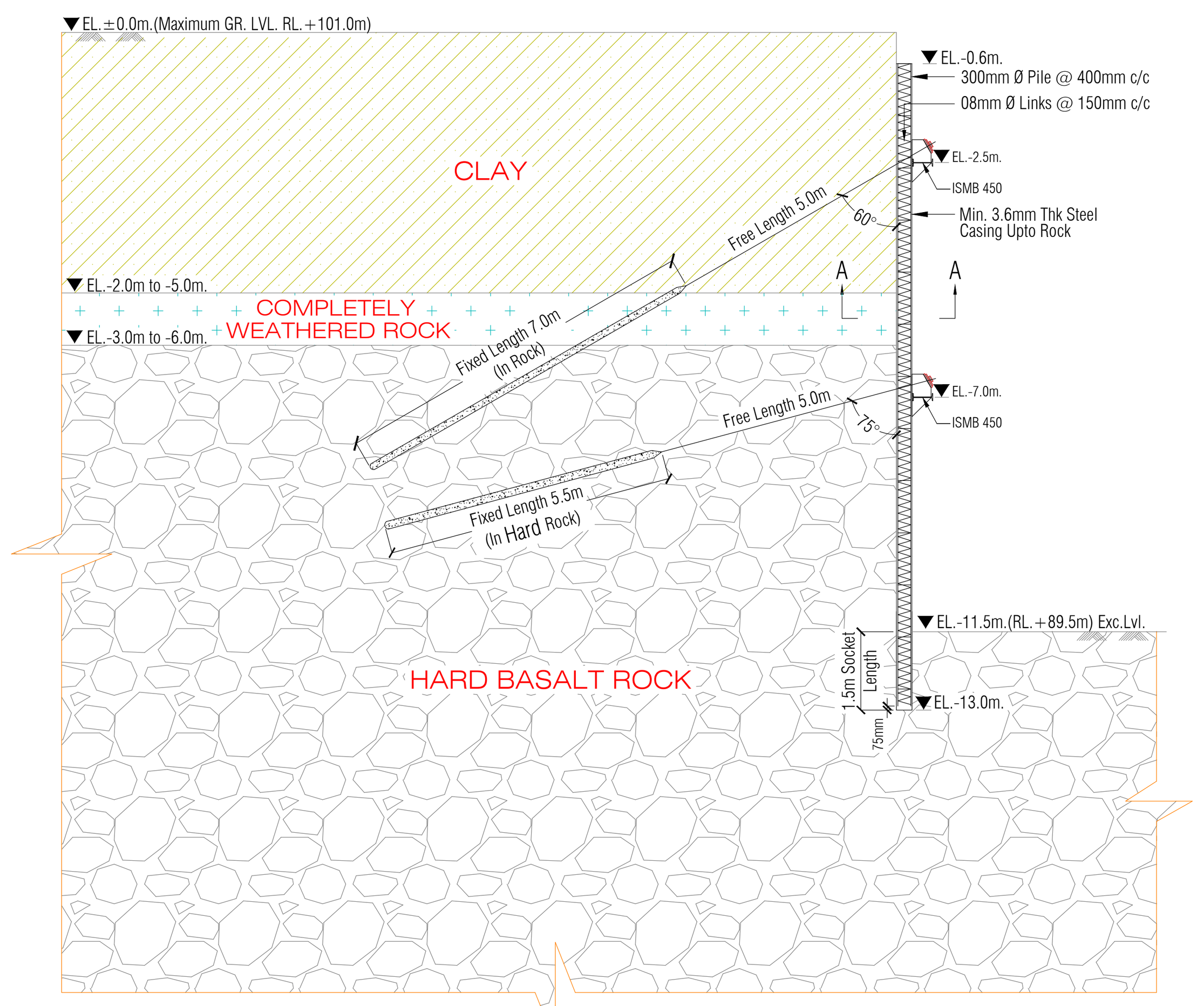
REINFORCEMENT SCHEDULE

MAIN STEEL	LINKS	MASTER RING
05Nos.-25mm Ø	8mmØ @150 C/C	12mmØ @1000 C/C

ANCHOR DETAILS (AT-2.5m.)
1) CAPACITY = 70 TONS
2) SPACING = 4.0m
3) DIAMETER = 115mm
4) FREE LENGTH = 6.0m
5) FIXED LENGTH = 10.0m (In Rock)
6) REINFORCEMENT = 07 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 45° WITH VERTICAL
8) LOCK OFF LOAD = 55 TONS

ANCHOR DETAILS (AT-6.6m.)
1) CAPACITY = 75 TONS
2) SPACING = 3.2m
3) DIAMETER = 115mm
4) FREE LENGTH = 5.0m
5) FIXED LENGTH = 10.0m (In Rock)
6) REINFORCEMENT = 07 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 60° WITH VERTICAL
8) LOCK OFF LOAD = 60 TONS

ZONE-2



SCHEDULE OF PILES (RCC PILES)

PILE DIA	PILE SPACING	CONCRETE MIX	STEEL GRADE
300	400c/c	M30 (Self Compacting Concrete)	Fe 500

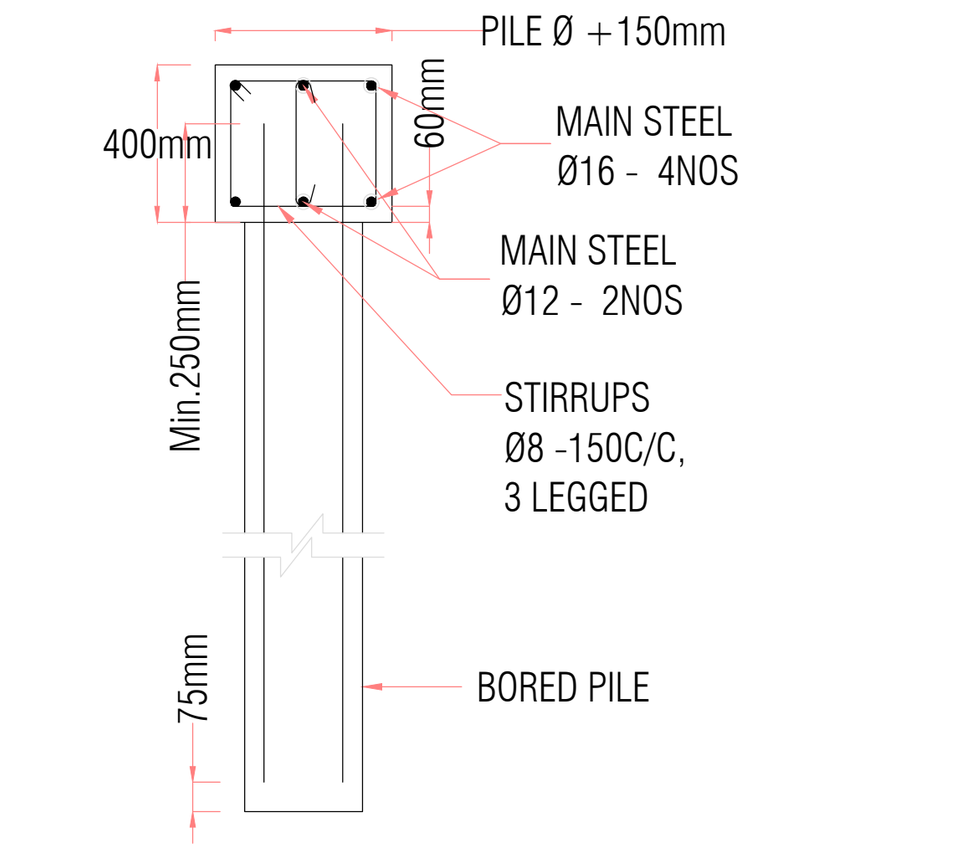
REINFORCEMENT SCHEDULE

MAIN STEEL	LINKS	MASTER RING
06Nos.-20mm Ø	8mmØ @150 C/C	12mmØ @1000 C/C

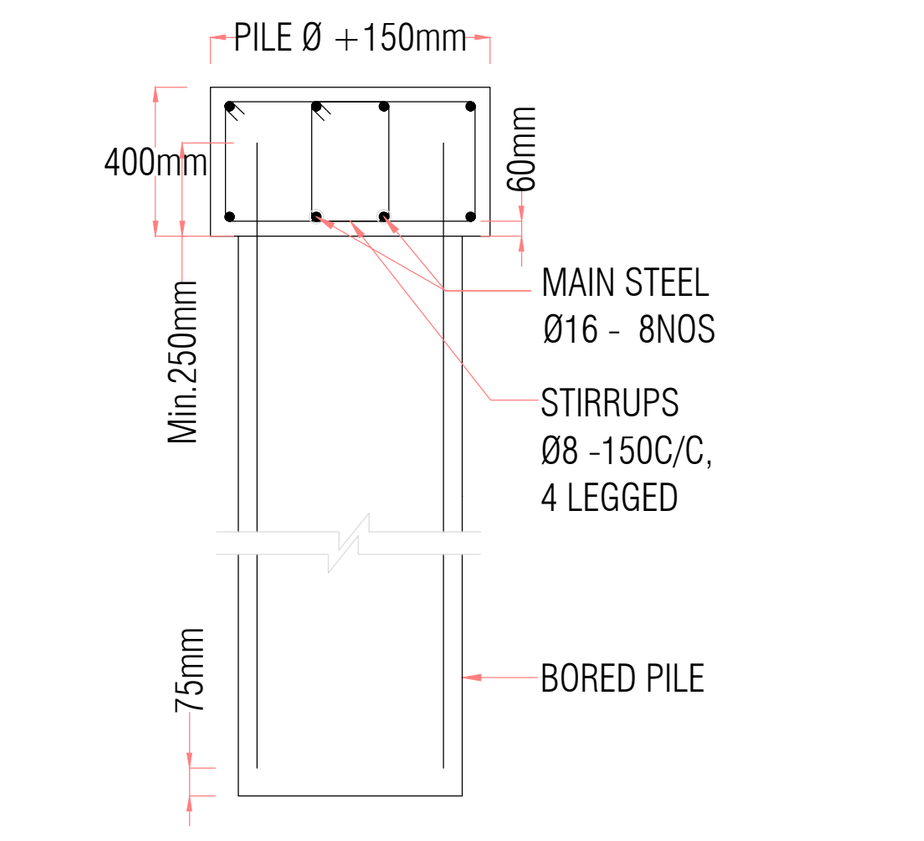
ANCHOR DETAILS (AT-2.5m.)
1) CAPACITY = 60 TONS
2) SPACING = 4.0m
3) DIAMETER = 115mm
4) FREE LENGTH = 5.0m
5) FIXED LENGTH = 7.0m (In Rock)
6) REINFORCEMENT = 06 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 60° WITH VERTICAL
8) LOCK OFF LOAD = 50 TONS

ANCHOR DETAILS (AT-7.0m.)
1) CAPACITY = 60 TONS
2) SPACING = 3.6m
3) DIAMETER = 115mm
4) FREE LENGTH = 5.0m
5) FIXED LENGTH = 5.5m (In Hard Rock)
6) REINFORCEMENT = 06 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 75° WITH VERTICAL
8) LOCK OFF LOAD = 50 TONS

GENERAL NOTES:-
1. ALL DIMENSIONS ARE IN MM. UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSION ARE TO BE READ ONLY AND NOT TO BE MEASURED/SCALED.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL, M.E.P., ARCHITECTURAL AND LANDSCAPE DRAWINGS.
4. ANY DISCREPANCIES IN THE DRAWING OR AT SITE SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECTS IMMEDIATELY.
5. FOR DETAIL REFER RELEVANT LARGE SCALE DETAIL DRAWINGS AS INDICATED.
6. CONCRETE GRADE:-
   PILES = AS MENTIONED IN DRAWING
   CAPPING BEAM = M25.
7. STEEL GRADE = Fe500
8. LD OF 50D TO BE PROVIDED FOR ALL REINFORCEMENT.
9. CLEAR COVER:-
   MICRO PILES = 25mm.
   LARGE PILES = 50mm.
   CAPPING BEAM = 60mm.
10. HYDRAULIC ROTARY RIG OF MINIMUM 180KN.M.TORQUE CAPACITY SHOULD BE UTILIZED FOR LARGE DIA PILES.
11. EXCAVATION WORKS ATLEAST UP TO B1 SLAB SHOULD BE STRICTLY DONE IN DRY SEASON.

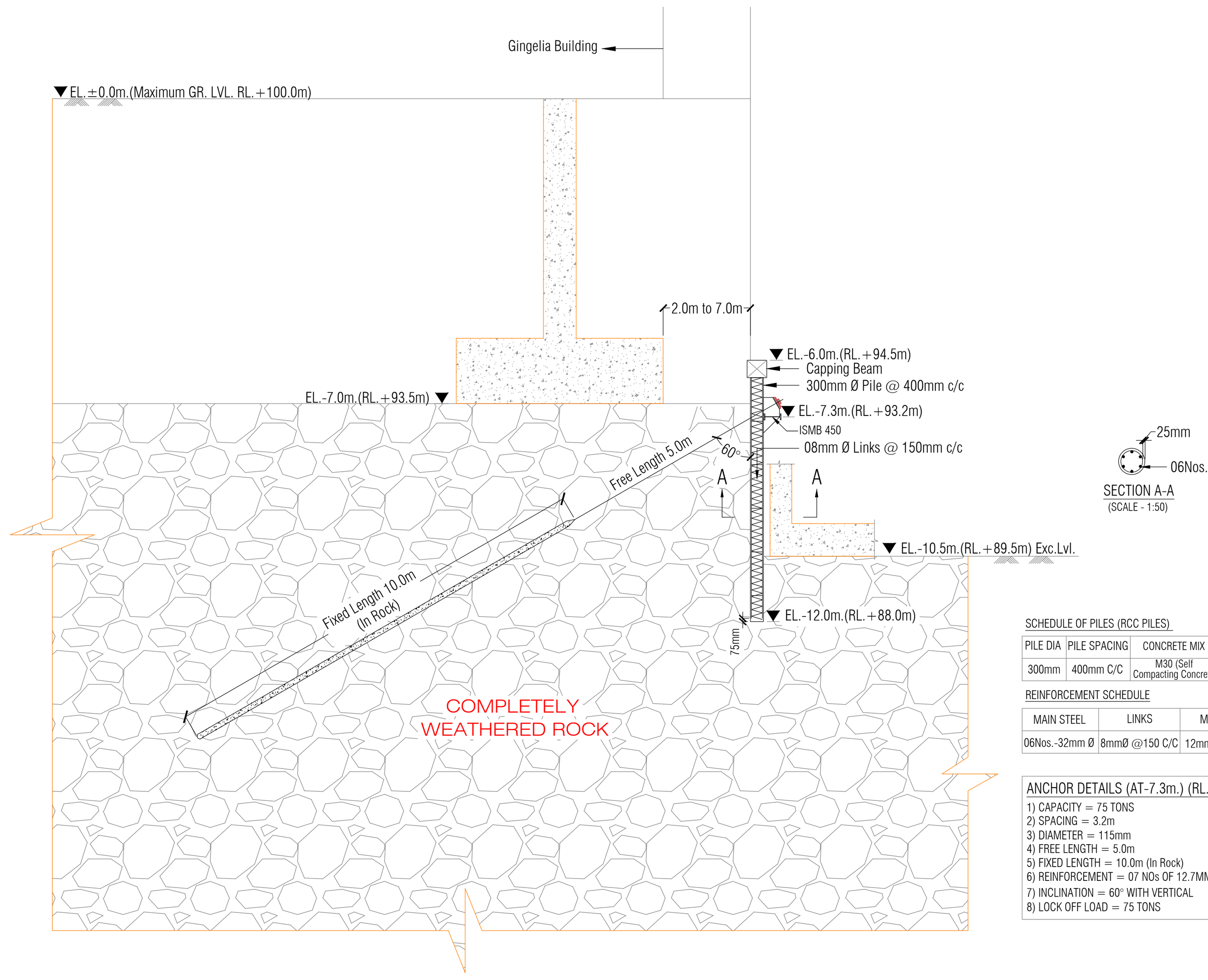


CAPPING BEAM DETAIL(300mmØ)



CAPPING BEAM DETAIL(600mmØ)

ZONE-3



SCHEDULE OF PILES (RCC PILES)

PILE DIA	PILE SPACING	CONCRETE MIX	STEEL GRADE
300mm	400mm C/C	M30 (Self Compacting Concrete)	Fe 500

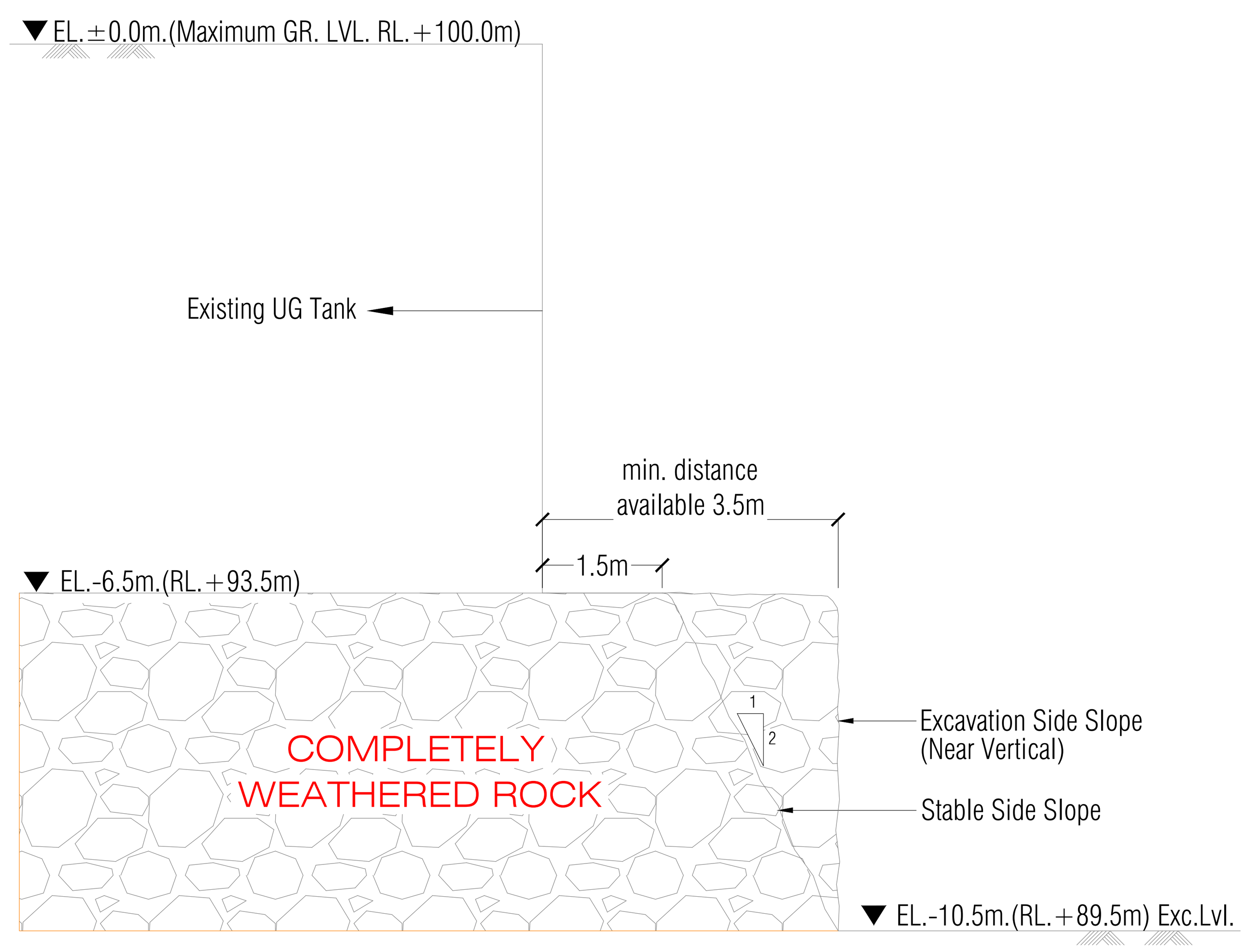
REINFORCEMENT SCHEDULE

MAIN STEEL	LINKS	MASTER RING
06Nos.-32mm Ø	8mmØ @150 C/C	12mmØ @1000 C/C

ANCHOR DETAILS (AT-7.3m.) (RL.+93.2m)
1) CAPACITY = 75 TONS
2) SPACING = 3.2m
3) DIAMETER = 115mm
4) FREE LENGTH = 5.0m
5) FIXED LENGTH = 10.0m (In Rock)
6) REINFORCEMENT = 07 NOs OF 12.7MM DIA HT STRANDS
7) INCLINATION = 60° WITH VERTICAL
8) LOCK OFF LOAD = 75 TONS

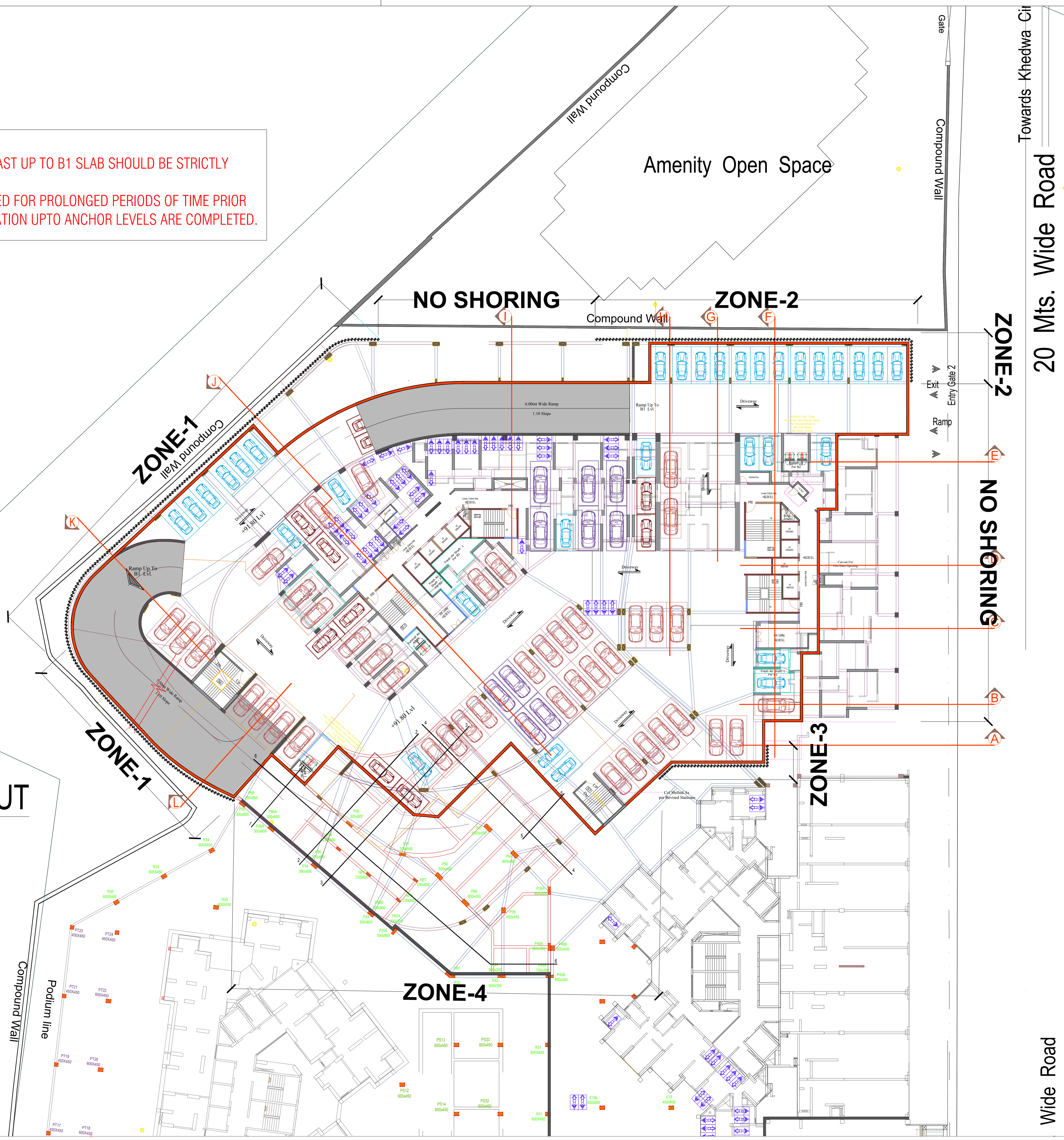
NOTE:
1) EXCAVATION AND FOUNDATION WORKS ATLEAST UP TO B1 SLAB SHOULD BE STRICTLY COMPLETED IN DRY SEASON.
2) SHORING PILES SHOULD NOT BE KEPT EXPOSED FOR PROLONGED PERIODS OF TIME PRIOR TO ANCHOR INSTALLATION AND AFTER EXCAVATION UPTO ANCHOR LEVELS ARE COMPLETED.

ZONE-4



NOTE:- EXCAVATION AND BASEMENT WALL FOR THIS AREA SHOULD BE STRICTLY COMPLETED IN DRY SEASON.

PILE SHORING LAYOUT



CLIENT:-	ACME HOUSING INDIA PVT LTD.
PROJECT:-	ACME OZONE, THANE
TITLE:-	PILE SHORING WALL DESIGN
FILE NO.:- 14210	DATE :- 05/03/2021

REV. NO.	DATE	DESCRIPTION
R4	13/03/2020	ADDED ANCHOR BLOCK DETAILS
R5	24/05/2020	REVISED SECTION AND LAYOUT
R6	17/11/2020	REVISED SECTIONS
R7	05/03/2021	REVISED LAYOUT
R8	11/03/2021	REVISED SECTION AND LAYOUT

DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY
SAURABH	KOMAL J.	KOMAL J.	JAYDEEP WAGH

STAMP & SIGN :-

GOOD FOR CONSTRUCTION

GEOCON
Optimized Foundation Solutions
GEOCON INTERNATIONAL PVT. LTD.
ADDRESS:
GEOCON INTERNATIONAL PVT. LTD.
45 CASA LUNA BUILDING
1ST FLOOR, L. J. ROAD NO. 1
MAHIM (W), MUMBAI 400 016
MAHARASHTRA, INDIA
EMAIL:
geocon6@hotmail.com
CONTACTS:
+91 (22) 2444 8985