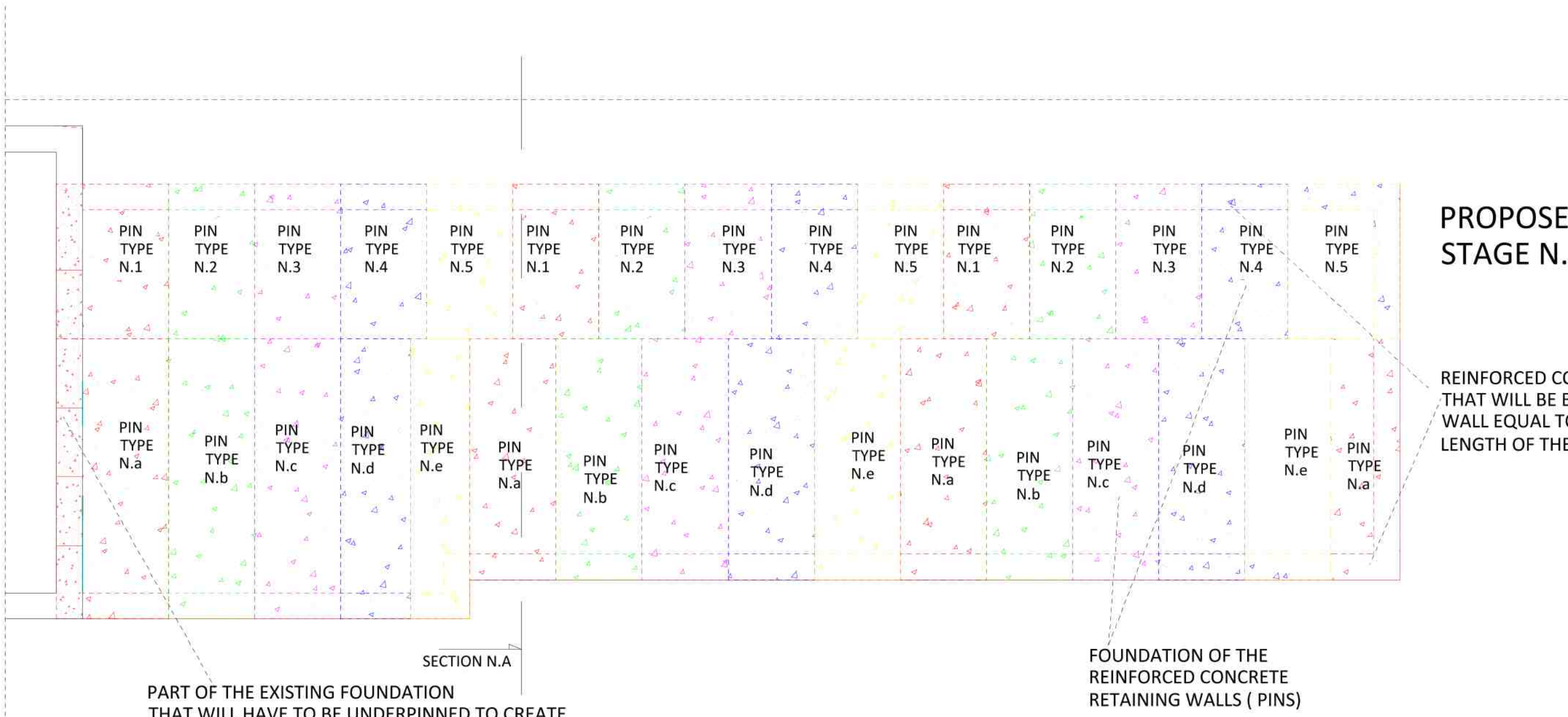




FIRST HEIGHT OF 1.35m OF THE BASEMENT RETAINING WALLS;
As the basement retaining walls will be built in two stages , the minimum lap to the mesh reinforcement will have to be 450 mm.
In addition to connect the two parts of the retaining wall built in different stages and the adjacent pins, longitudinal bars mild steel dowel length 600mm, diam. 10mm and distance centre to centre 400mm must be inserted into the reinforced concrete wall for 300mm and embedded into the other part of the wall for 300mm for connecting the two elements of the one built in different stages;

GENERAL NOTE:
THE WALLS TO OF THE NEW BASEMENT WILL BE BUILT IN TWO STAGES ;
FIRST STAGE : THE FIRST HEIGHT OF 1.35m WILL BE BUILT IN ALL THE SIDES OF BASEMENT.
SECOND STAGE : THE REMAINING WALL HEIGHT TO REACH THE PROPOSED HEIGHT OF THE BASEMENT WILL BE BUILT WITH THE UNDERPINNING TECHNIQUE. FOR WHICH REINFORCED CONCRETE PINS WITH A MAXIMUM LENGTH EQUAL TO 0.8/1.0m WILL BE BUILT TO TAKE THE VERTICAL LOADS FROM THE WALLS AND HORIZONTAL LOADS FROM THE EARTH AND ADJACENT BUILDING;
DURING THE CONSTRUCTION, THE PINS WALLS AND BASES WILL REQUIRE LATERALLY PROPPING IN THE TEMPORARY CONDITION. PROPPING WILL BE MADE AGAINST THE CENTRAL EARTH PUDDING.
THE REINFORCED CONCRETE RETAINING WALL PINS THAT WILL BE BUILT UNDER THE CONTINUOUS FIRST WALL HEIGTH OF 1.35m WILL BE CONSTRUCTED STAGGERED.
THE SEQUENCE OF THE CONSTRUCTION OF THE REINFORCED CONCRETE PINS WILL BE
IN THE 1,3,5,2 AND 4 SEQUENCE,
IN THE a, c,e,b AND d SEQUENCE AND SUCH THAT ANY GIVEN UNDERPIN WILL BE COMPLETED , DRY PACKED AND A MINIMUM PERIOD OF 48 HOURS LAPSED BEFORE AN ADJACENT EXCAVATION COMMENCED TO FORM ANOTHER UNDERPIN.
TO CONNECT THE REINFORCED CONCRETE RETAINING WALL PINS BETWEEN THEM , LONGITUDINAL BARS MILD STEEL DOWEL LENGTH 600mm WILL BE INSERTED INTO EACH PIN AND EMBEDDED INTO THE ADJACENT ONE FOR 300mm;
THE SEQUENCE OF THE CONSTRUCTION STAGES OF THE SIDES BASEMENT WALL WILL BE SHOWN IN THE NEXT DRAWINGS;
CONCRETE WILL GENERALLY BE GRADE C35/40 and Class 1 to BRE Digest 363; Reinforcement will be grade 500N/mm2;



PROPOSED BASEMENT
STAGE N.2

REINFORCED CONCRETE RETAINING WALL PINS
THAT WILL BE BUILT UNDER THE FIRST HEIGHT OF
WALL EQUAL TO 1.35m.
LENGTH OF THE PINS=800/1000mm

PART OF THE EXISTING FOUNDATION
THAT WILL HAVE TO BE UNDERPINNED TO CREATE
THE PROPOSED BASEMENT .
THE MENTIONED REINFORCED CONCRETE PINS MUST
BE BULT STAGGERED AND WITH A LENGTH
=800/1000mm

FOUNDATION OF THE
REINFORCED CONCRETE
RETAINING WALLS (PINS)

PACA GEOTECHNICAL ENGINEERING LTD		PROPOSED BASEMENT PLAN
MARCH 2020	REF. :A496.20	DRAWING N.3 SCALE 1:50@A1