

STRUCTURAL LAYOUT AT FOUNDATION LVL. (600 THK. RAFT)
[M-25 GRADE OF CONCRETE]
- ALL CENTER LINE REFER AS PER ARCH DRG.

SCHEDULE OF FOOTINGS (CONCRETE GRADE-M25) (FE 5000) (CLEAR COVER TO LONGITUDINAL R/F, -50MM)								
FOOTING NOS.	P.C.C. SIZE (B'xL')	STEP-1 SIZE (BxL)	STEP-2 SIZE (b'x'l')	TOTAL DEPTH T	STEP-1 DEPTH t1	STEP-2 DEPTH t2	REINFORCEMENT BOTTOM	
							STEEL//B	STEEL//L
F1	2700 X 2700	2400 X 2400	1800 X 1800	750	375	375	T12@100c/c	T12@100c/c

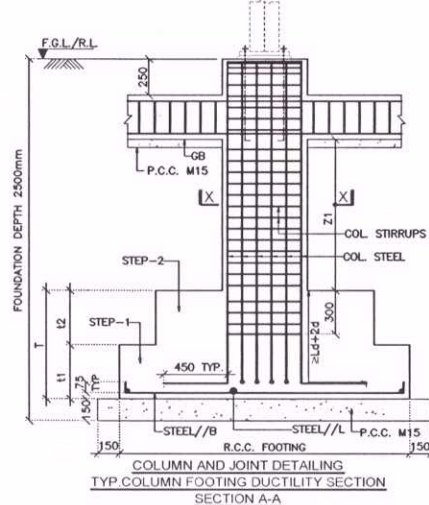
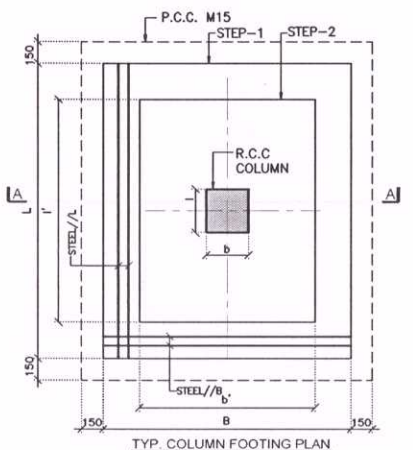
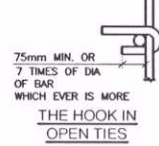
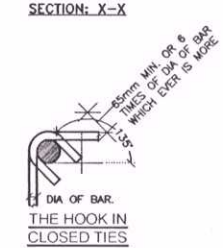
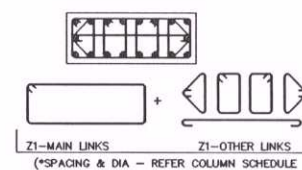
Z1 SHOULD NOT BE LESS THAN
(1) LARGER LATERAL DIMENSION OR
(2) L/6 OF CLEAR SPAN.
(3) 450 mm

db - DIAMETER OF THE BAR
ldc - DEVELOPMENT LENGTH
hc - CLEAR HEIGHT OF COLUMN

* DEVELOPMENT LENGTH FOR $F_y = 5000 \text{ N/mm}^2$ SHALL BE AS FOLLOWS

DEVELOPMENT LENGTH (LAP LENGTH) FOR FULLY STRESSED DEFORMED BARS		
$F_y = 5000 \text{ N/mm}^2$		
CONC. GRADE	TENSION BAR	COMP. BAR
M 25	49 ϕ	39 ϕ

(ϕ = DIAMETER OF BAR.)



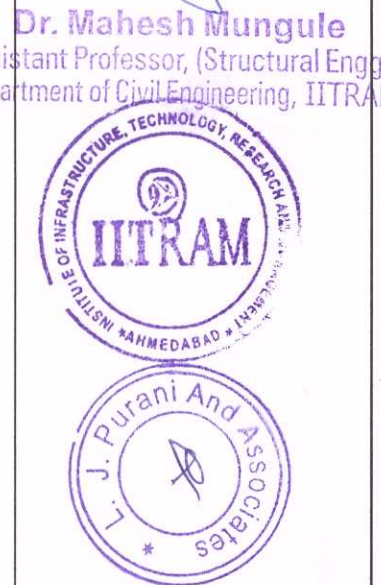
FOUNDATION LVL	M25 : Fe5000, COVER = 40MM CONFINING ZONE = FULL HEIGHT		
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS
PLINTH BEAM LVL	T8 @ 75	T8 @ 75	---
	600		
	600		
	20-T20		
COLUMN MARKED	C1		
GROUPING NO.	GROUP-1		

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- GENERAL NOTES:
- (01) ALL DIMENSIONS ARE IN mm. AND LEVELS ARE IN MSL UNLESS OTHERWISE SPECIFIED.
 - (02) ALL WORK SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL CONC. SHALL BE M25 GRADE.
 - (03) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (04) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (05) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
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 - (16) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (17) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (18) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (19) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.
 - (20) ALL REINFORCEMENT SHALL BE DONE AS PER ARCHITECTURAL DRAWINGS. ALL REINFORCEMENT SHALL BE M25 GRADE.

SCHEDULE OF CONCRETE GRADE	
ELEMENT	CONCRETE GRADE
FOOTING	M25
COLUMN & SHEAR WALL	M25
BEAM & SLAB	M25
CHARTER & G.C.C.T.	M25

Dr. Mahesh Mungule
Assistant Professor, (Structural Engg.)
Department of Civil Engineering, IITRAM



NO.	DATE	REVISION HISTORY	REVISION BY	DRAWN BY
1	18.11.2022	PROJECT ARCHITECT : MP		
2		CHECKED BY : SB		
3		APPROVED BY : MP		
4		ELECTRICAL CONSULTANTS: HVAC		

GOOD FOR CONSTRUCTION

CLIENT NAME: DEVELOPMENT OF AUTOMATED/MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT MEGISTATE OFFICE, HARIDWAR

DRAWING TITLE: PARKING FOUNDATION LAYOUT & DETAILS

DATE: 18.11.2022 PROJECT ARCHITECT: MP

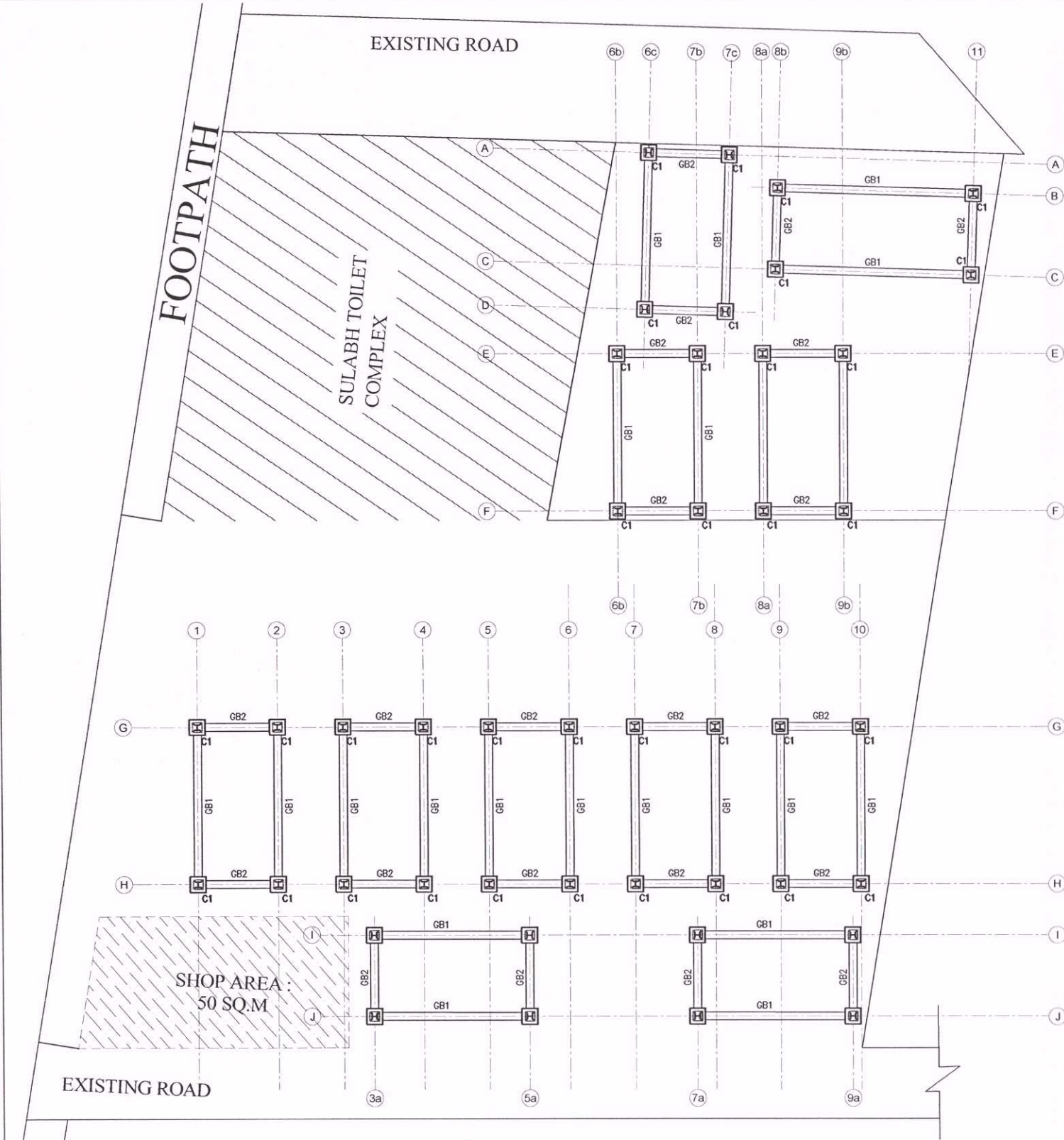
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DRAWN BY: MP APPROVED BY: MP

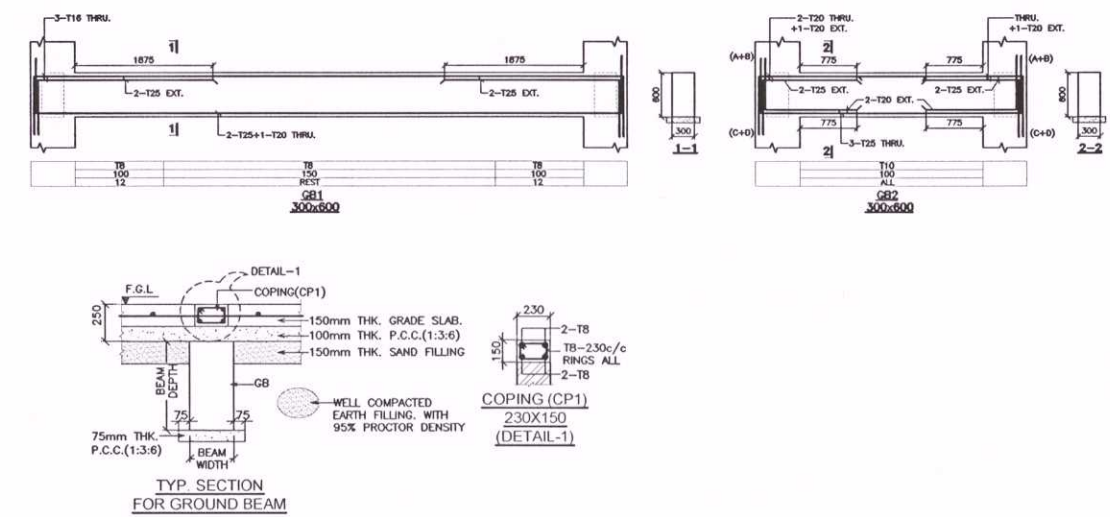
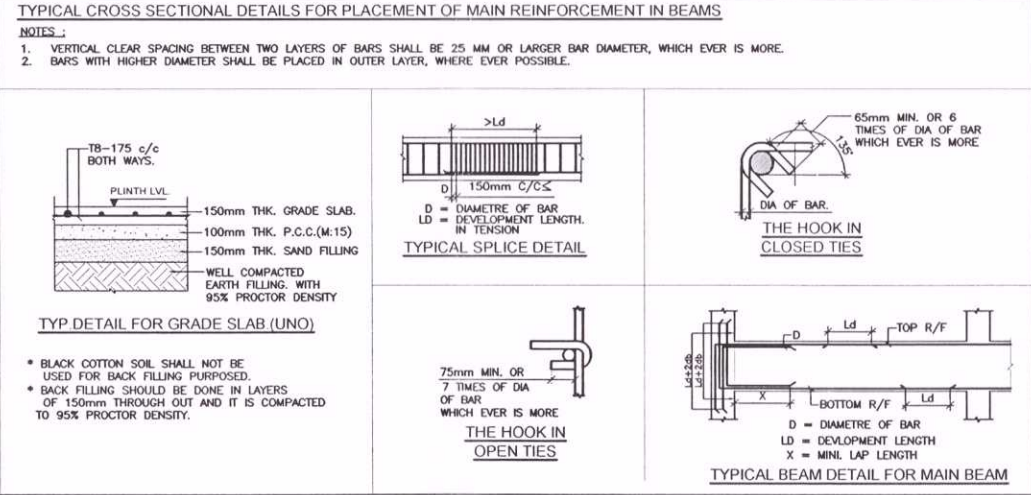
ELECTRICAL CONSULTANTS: HVAC

ARCHITECT & STRUCTURAL ENGINEERS
L.J. PURANI AND ASSOCIATES
302, BALA BHUMBS CENTER, ST. SARFAT'S COLLEGE CORNER, RAIPUR, RAIPUR, RAIPUR 492 004.
TEL: (077) 2444031, FAX: (077) 2444031, E-MAIL: purani@iitram.ac.in

DAMMP-MOH-02-01.00 2211014 R0



STRUCTURAL LAYOUT AT GROUND BEAM LVL.
- ALL CENTER LINE REFER AS PER ARCH DRG.



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GENERAL NOTES:

- ALL DIMENSIONS ARE IN MM. AND LEVELS ARE AS SHOWN. DIMENSIONS ARE TO BE READ & NOT TO BE MEASURED.
- ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH IS: 1786 & IS: 432. ALL BARS SHALL BE AS PER FOLLOWING.
- ALL CORNERS & JOINTS SHALL BE REINFORCED AS PER FOLLOWING.
- FOR REINFORCEMENT CONSIDER GRADE OF SOIL AS PER ARCH DRG.
- MINIMUM CLEAR COVER TO CONCRETE -
1. FOOTING - 50 mm
2. COLUMN & SHEET PILE - 40 mm
3. SLAB - 25 mm
- LAPING OF REINFORCEMENT BARS SHALL BE DONE AS PER ARCH DRG.
- FOR ALL DIMENSIONS, LEVELS ETC. SHOULD BE CHECK WITH ARCHITECTURAL DRAWINGS BEFORE EXECUTION. IF FOUND ANY DISCREPANCY/OMISSION/PLEASE CONSULT TO CONSULTANT IMMEDIATELY.

Dr. Mahesh Mungule
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DATE	REV.	ARCH.	CLIENT	CONTR.	SITE	TOTAL	REMARK
06.02.23	RD	MAIL	-	-	-	-	FOR GFC.

NO.	DATE	REVISION HISTORY	REVISED BY	DRAWN BY
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GOOD FOR CONSTRUCTION

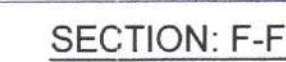
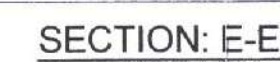
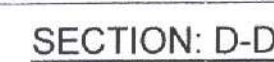
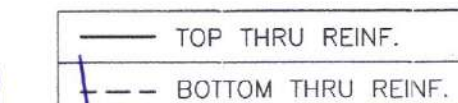
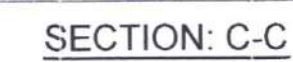
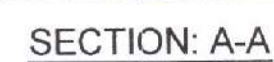
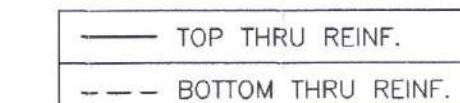
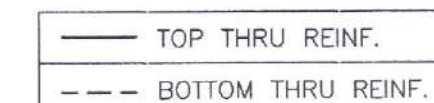
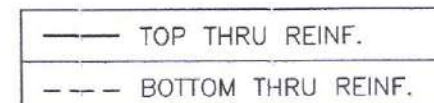
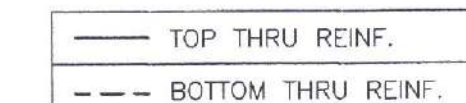
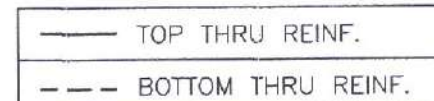
CLIENT NAME: DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT MEGISTRATE OFFICE, HARIDWAR

DRAWING TITLE: GROUND BEAM LAYOUT & DETAILS

DATE: 06.02.2023	PROJECT ARCHITECT: AP
SCALE: 1:50	CHECKED BY: SB
DRAWN BY: AP	APPROVED BY: NP
ELECTRICAL CONSULTANTS:	HVAC

ARCHITECT & STRUCTURAL ENGINEERS
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TEL: (079) 26444310, FAX: (079) 26443101.
E-MAIL: info@ljpurani.com, ljpurani@gmail.com

DRAWING NO.	PROJECT NO.	REVISION
DAMMP-MOH-02-02.00	2211014	RD



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Assistant Professor, (Structural Engineering)
Department of Civil Engineering, IITR

NO.	DATE	REVISION HISTORY	REVISED BY	DRAWN BY
GOOD FOR CONSTRUCTION				
CLIENT NAME: DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT REGISTRATE OFFICE, HARIDWAR				
DRAWING TITLE: FOUNDATION RAFT DETAILS				
DATE : 18.11.2022		PROJECT ARCHITECT : AP		
SCALE : --		CHECKED BY : SB		
DRAWN BY : SP		APPROVED BY : NP		
ELECTRICAL CONSULTANTS :		HVAC		
ARCHITECT & STRUCTURAL ENGINEER L.J. PURANI AND ASSOCIATE 363, DALA BUSINESS CENTER, ST. XAVIER'S COLLEGE CORNER, NAWANAGUDA, ANNEKHAD ROAD TEL. (0933) 2463338 FAX. (0933) 2465193 e-mail : info@ljpuraniassociates.com				
DRAWING NO.		PROJECT NO.		REVISED
DAMMP-MOH-02-01.01		2211014		REVIS



SITE LAYOUT



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GENERAL NOTES:

(01) ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN DIMENSIONS ARE TO BE READ AS TO BE REQUIRED.

(02) ALL R.C.C. SHALL BE MACHINE MIXED & MACHINE VIBRATED. ALL CONC. SHALL BE P.C.C. SHALL BE AS PER FOLLOWING:

ALL CONC. = M20

R.C.C. = M20 (UNLESS OTHERWISE SPECIFIED)

(03) FOR REINFORCEMENT CONSIDER GRADE (E) 500. :-

1. BAR CONFORMING TO IS: 1786 - 2008

M.S. BARS CONFORMING TO IS: 432 - 1982

(04) MINIMUM CLEAR COVER TO CONCRETE:

1. FOOTING - 50 mm

2. COLUMN & BEAM - 40 mm

3. SLAB - 25 mm

(05) LAPPING OF LONGITUDINAL BARS SHALL BE STAGGERED TO AVOID CONJUNCTION OF REINFORCEMENT.

(06) FOR ALL DIMENSIONS, LEVELS ETC. SHOULD BE CHECKED WITH ARCHITECTURAL DRAWINGS BEFORE EXECUTION. IF FOUND ANY CONFLICTION/CONTRADICTION, PLEASE CONSULT TO CONSULTANT IMMEDIATELY.

LEGEND

ROAD	—
BOUNDARY	—
DIMENSION	—
TREE	—
CONTOUR	—
BUILDING LINE	—
PAVER BLOCK	—
PARKING FOR SEDAN	①
PARKING FOR SUV	②
SECURITY CABIN	③
PARKING FOR BIKE	④
EXISTING ROAD	—

LEGEND

TOTAL PLOT AREA	815 SQMT
	8772.6 SQFT
	974.7 SQYD
NUMBER OF CAR BLOCKS	SEDAN: 8
	SUV: 2
TOTAL NUMBER OF CARS: 136	SEDAN: 112
	SUV: 24
TOTAL NO. OF TWO WHEELERS: 96	

Nilesh L. Purani
C.O.A. CA/96/19838

DATE	REV.	ARCH.	CLIENT	CONTR.	SITE	TOTAL	REMARK
18.11.22	01	MAIL	01	01	01	03	FOR G.F.C.

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NO.	DATE	REVISION HISTORY	REVISED BY	DRAWN BY
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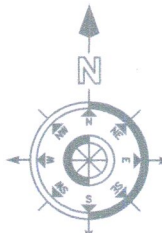
GOOD FOR CONSTRUCTION

DEVELOPMENT OF AUTOMATED/
MECHANIZED MULTILEVEL CAR PARKING SYSTEM
AT MEGISTATE OFFICE, HARIDWAR

DATE	18.11.2022	PROJECT ARCHITECT	AP
SCALE	—	CHECKED BY	SB
DRAWN BY	JP	APPROVED BY	NP
ELECTRICAL CONSULTANTS	—	HVAC	—

ARCHITECT & STRUCTURAL ENGINEERS
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303, GALA BUSINESS CENTER, ST. XAVIER'S COLLEGE CORNER, NAVRANGPURA, AHMEDABAD 380 009,
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DRAWING NO.	PROJECT NO.	REVISION
DAMMP-MOH-01-01.00	2211014	R0



LEGEND:-	
SYMBOL	DESCRIPTION
---	150# ABOVE GROUND HYDRANT PIPE.
---	150# UNDER GROUND HYDRANT PIPE.
---	100# ABOVE GROUND HYDRANT PIPE.
---	100# UNDER GROUND HYDRANT PIPE.
---	80# ABOVE GROUND HYDRANT PIPE.
---	80# UNDER GROUND HYDRANT PIPE.
---	100# SPRINKLER PIPE.
---	80# SPRINKLER PIPE.
---	65# SPRINKLER PIPE.
---	50# SPRINKLER PIPE.
---	40# SPRINKLER PIPE.
---	25# SPRINKLER PIPE.
---	SINGLE HEADED HYDRANT VALVE.
---	FRP TYPE HOSE BOX WITH 2 NOS. HOSE PIPES AND 1NO. BRANCH PIPE.
---	4 WAY FIRE BRIGADE INLET.
---	HOSE REEL 45MTR. LONG.
---	CO2 TYPE FIRE EXTINGUISHER 4.5KG.
---	ABC TYPE FIRE EXTINGUISHER 8KG.
---	BUTTERFLY VALVE.
---	PENDANT TYPE SPRINKLER 68°.
---	EXTENDED THROW SIDE WALL TYPE SPRINKLER 68°.

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GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. ALL WORK SHALL BE DONE AS PER THE SPECIFICATIONS OF THE BIDDING DOCUMENT.

3. ALL MATERIALS SHALL BE OF THE BEST QUALITY AND SHALL BE SUBMITTED FOR APPROVAL.

4. ALL WORK SHALL BE DONE AS PER THE DRAWING.

5. ALL WORK SHALL BE DONE AS PER THE SPECIFICATIONS OF THE BIDDING DOCUMENT.

6. ALL WORK SHALL BE DONE AS PER THE DRAWING.

7. ALL WORK SHALL BE DONE AS PER THE SPECIFICATIONS OF THE BIDDING DOCUMENT.

8. ALL WORK SHALL BE DONE AS PER THE DRAWING.

9. ALL WORK SHALL BE DONE AS PER THE SPECIFICATIONS OF THE BIDDING DOCUMENT.

10. ALL WORK SHALL BE DONE AS PER THE DRAWING.

LEGEND	
ROAD	---
BOUNDARY	---
DIMENSION	---
TREE	---
CONTOUR	---
BUILDING LINE	---
PAVER BLOCK	---
PARKING FOR SEDAN	①
PARKING FOR SUV	②
SECURITY CABIN	③
PARKING FOR BIKE	④
EXISTING ROAD	---

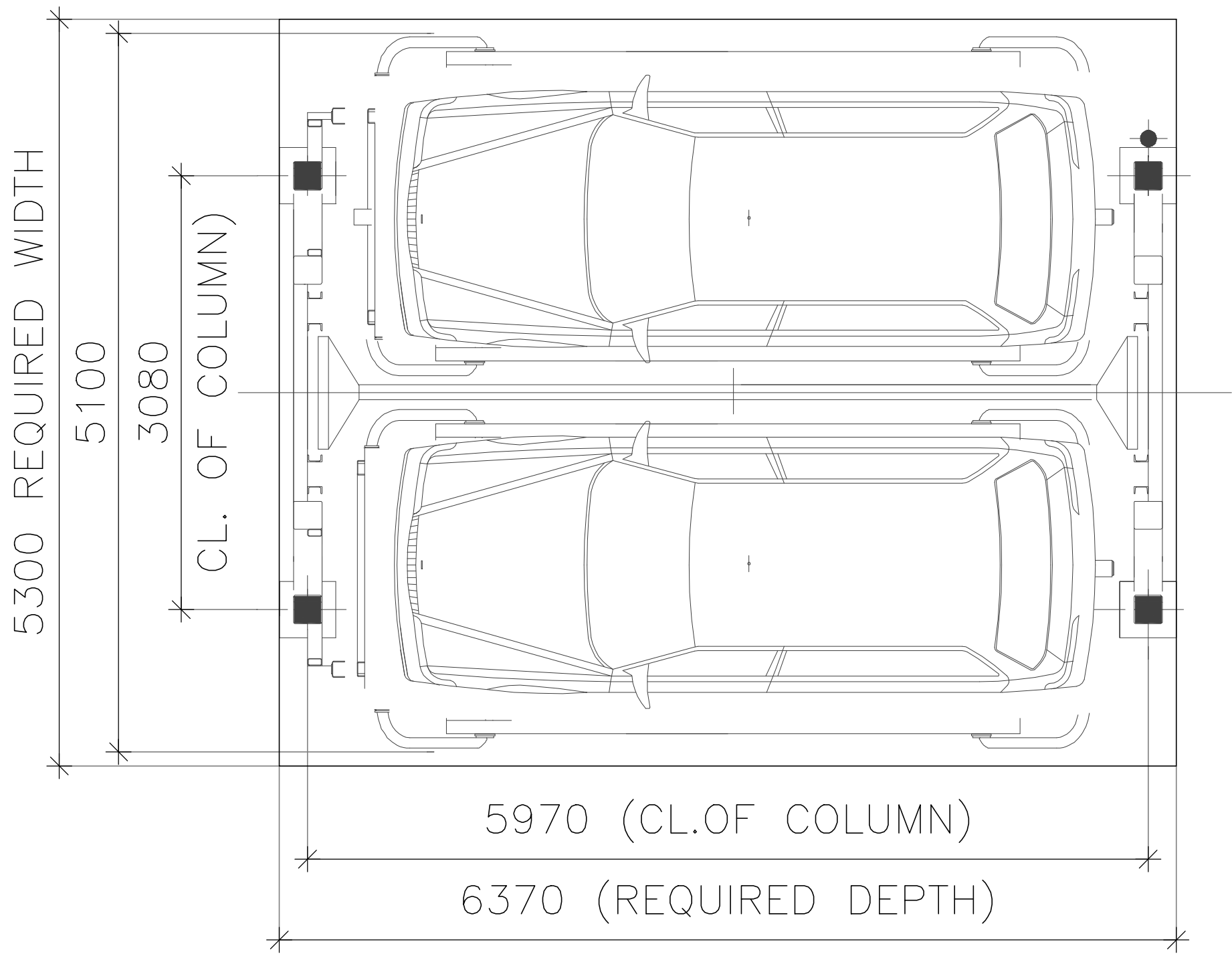
LEGEND	
TOTAL PLOT AREA	815 SQMT
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NUMBER OF CAR BLOCKS	SEDAN: 8
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TOTAL NUMBER OF CARS: 136	SEDAN: 112
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12
Nilesh L. Purani
C.O.A. CA/SEMPRO

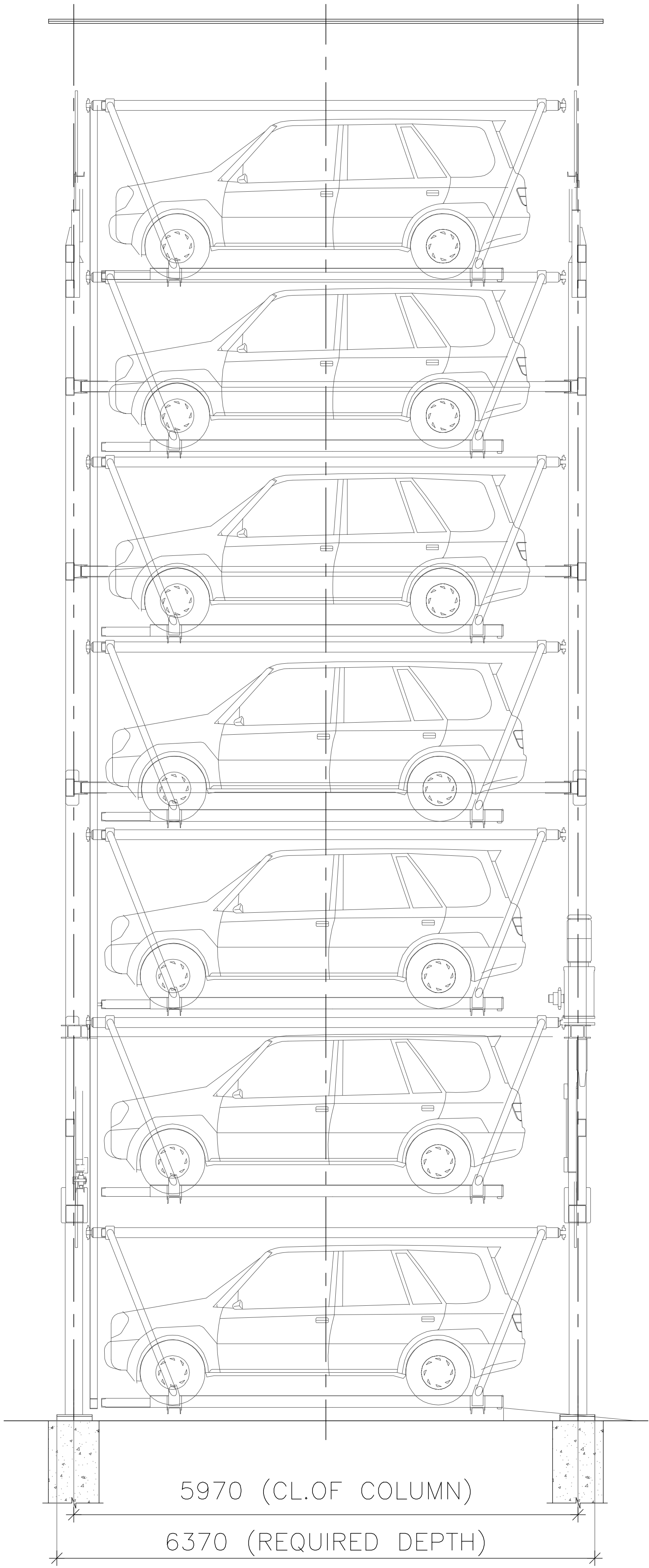
SYSTEM DESIGN BY:-		Assured Suraksha Services Pvt. Ltd. 326, Super Plaza, Sundesh Press Road, Ahmedabad-380054 PHONE NO:- 07926766973 , 48988911 E-MAIL : mldastoor@assuredsuraksha.com service@assuredsuraksha.com CIN : U29308GJ2021PTC121529
PROJECT:-	DEVELOPMENT OF AUTOMATED/MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT MEGISTRATE OFFICE, HARIDWAR	
TITLE:-	SECTION DRAWING OF FIRE FIGHTING SYSTEM.	
PRE. BY :-S/G	DWG NO:- ASSL-DAMMCP5-MEGISTRATE-FFTG-02	
SCALE:- N.T.S	SIZE:- A1.	DATE:- 07.01.2023 REV. NO:- 00.

DATE	REV.	ARCH.	CLIENT	CONTR.	SITE	TOTAL	REMARK
18.11.22	RO	MAIL	01	01	01	03	FOR G.F.C.

GOOD FOR CONSTRUCTION	
DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT MEGISTRATE OFFICE, HARIDWAR	
SITE LAYOUT	
18.11.2022	AP
SB	NP
JP	
ELECTRICAL CONSULTANTS:	HVAC
ARCHITECT & STRUCTURAL ENGINEERS	
L.J. PURANI AND ASSOCIATES	
302, GOLA BUSINESS CENTER, ST. XAVIER'S COLLEGE CORNER, NAVRANGPURA, AHMEDABAD 380 009.	
TEL. (079) 26448318, FAX. (079) 2655191.	
E-MAIL : L.J.PURANI@LJPURANI.COM	
DAMMP-MOH-01-01.00	2211014 R0

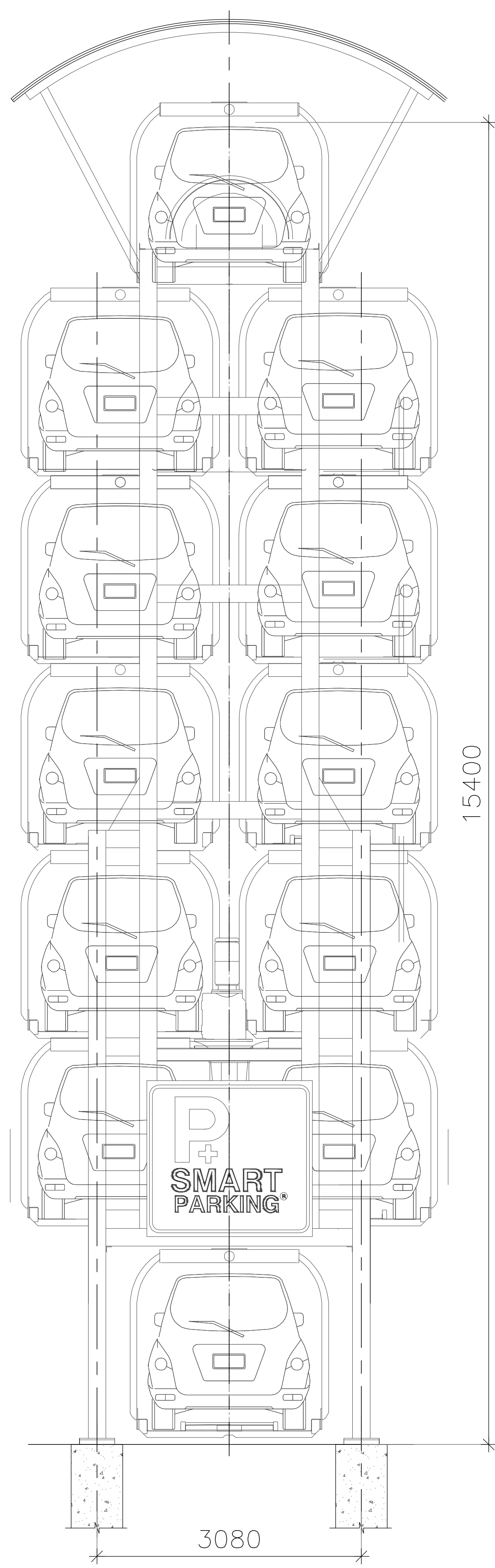


PLAN



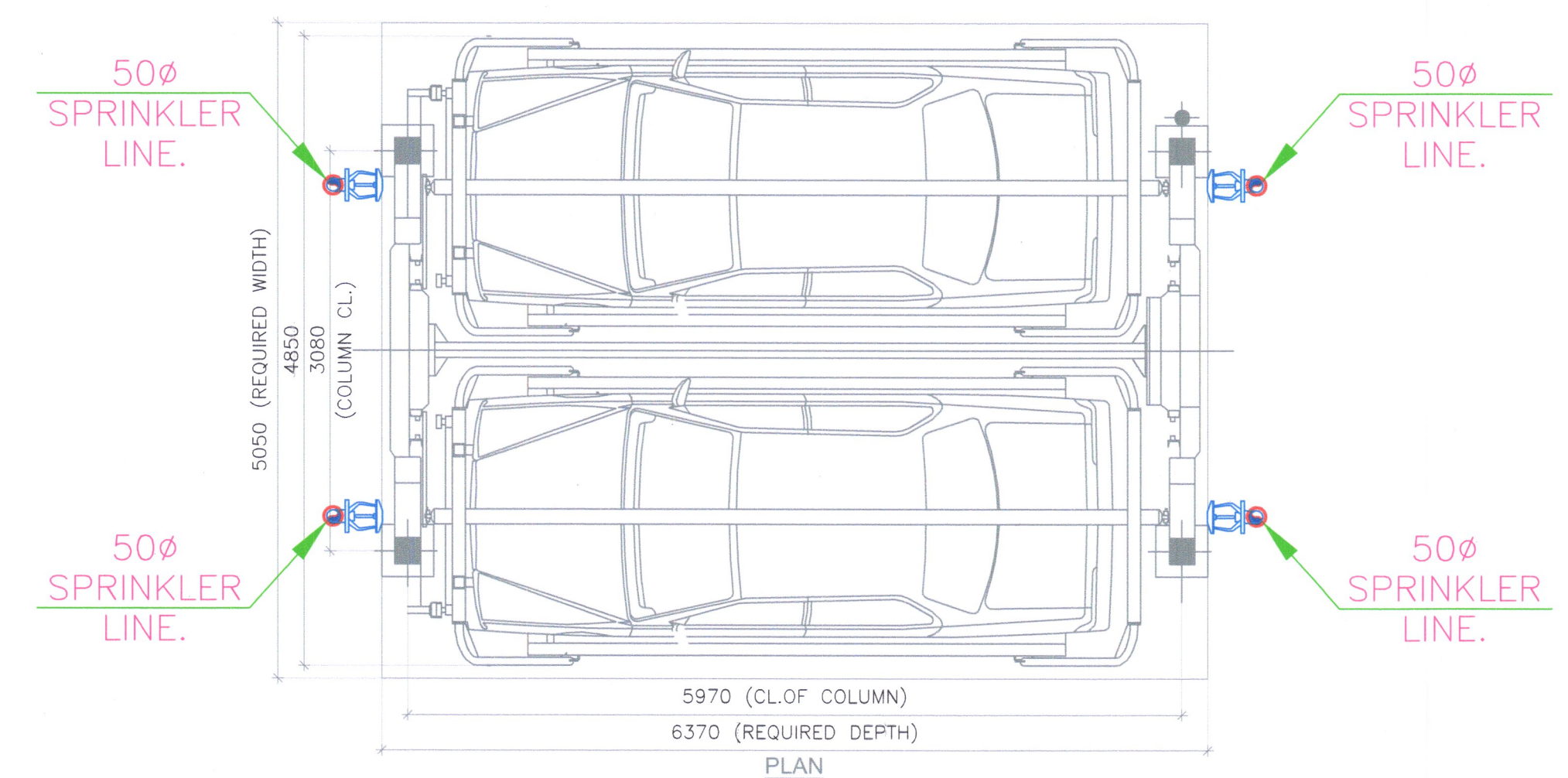
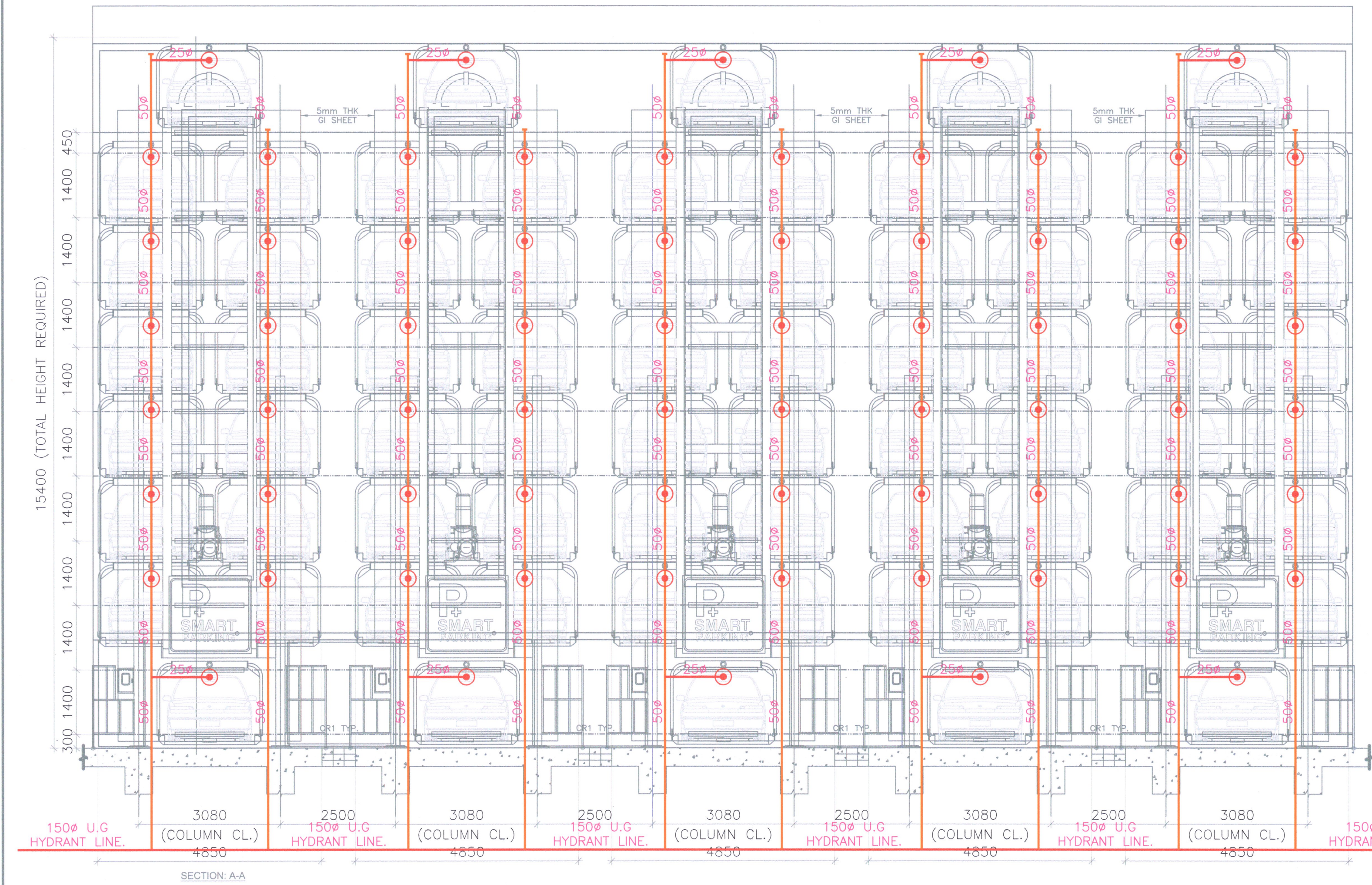
SIDE ELEVATION























SPECIFICATION			
BRAND NAME			
MODEL NO.		SM12SU	
TYPE		VERTICAL ROTARY PARKING	
PARKING CAPACITY		12 CARS	
AVAILABLE CAR	LENGTH	5200 mm	SUV CAR
	WIDTH	2100 mm	
	HEIGHT	2000 mm	
	WEIGHT	2400 kg	
MOTOR		11 kw X 4P	
SPEED		5-8 m/min	
POWER		AC415V X 3ph X 50HZ , 22KV	



FRONT VIEW

PROJECT : DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM	AGENCY: NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CLIENT : DISTRICT LEVEL DEVELOPMENT AUTHORITY NAINITAL	I	28.11.22	COLUMN SIZE	NOTE : 1. NO DIMENSIONS ARE TO BE SCALED FROM THIS DRAWING 2. CONTRACTORS MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK 3. ALL DIMENSIONS ARE IN MM/FITS INCHES UNLESS MENTIONED OTHERWISE	DRAWING : TYPICAL 4 WHEELER PLAN AND SECTION THIS DRAWING IS THE COPYRIGHT OF ARCHITECTURE CONSULTANT	STAMP :		ARCHITECT & STRUCTURAL ENGINEERS L.J. PURANI AND ASSOCIATES 302, GALA BUSINESS CENTER, ST. SAVIO'S COLLEGE CORNER, NAVARANGPURA, AHMEDABAD 380 005. TEL. (079) 26446318, FAX. (079) 26565191. E-mail : wpurani@ljpuraniassociates.com
									DATE : 28.11.2022	CHECKED BY: AR. JITAYU APPROVED BY:



LEGEND:-	
SYMBOL	DESCRIPTION
	150# ABOVE GROUND HYDRANT PIPE.
	150# UNDER GROUND HYDRANT PIPE.
	100# ABOVE GROUND HYDRANT PIPE.
	100# UNDER GROUND HYDRANT PIPE.
	80# ABOVE GROUND HYDRANT PIPE.
	80# UNDER GROUND HYDRANT PIPE.
	100# SPRINKLER PIPE.
	100# SPRINKLER PIPE.
	80# SPRINKLER PIPE.
	65# SPRINKLER PIPE.
	50# SPRINKLER PIPE.
	40# SPRINKLER PIPE.
	25# SPRINKLER PIPE.
	SINGLE HEADED HYDRANT VALVE.
	FRP TYPE HOSE BOX WITH 2 NOS. HOSE PIPE AND 1NO. BRANCH PIPE.
	4 WAY FIRE BRIGADE INLET.
	HOSE REEL 45MTR. LONG.
	CO2 TYPE FIRE EXTINGUISHER 4.5KG.
	ABC TYPE FIRE EXTINGUISHER 6KG.
	BUTTERFLY VALVE.
	PENDENT TYPE SPRINKLER 68'.
	EXTENDED THROW SIDE WALL TYPE SPRINKLER 68'.

[illegible]