



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 VALVE.
	FRP TYPE HOSE BOX WITH 2 NOS. HOSE PIPE AND 1 NO. 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°.

TREE	
ROAD	
BUILDING	
ELECTRIC POLE	
CONTOUR	
BOUNDARY LINE	
DIMENSION	
PUZZLE PARKING	①
SHOPS	②

TOTAL PLOT AREA	1274.90 SQMT
	13721.85 SQFT
	1524.65 SQYD
NUMBER OF CAR BLOCKS	4
TOTAL NUMBER OF CARS: 93	SEDAN
	SUV

42
Nilesh L. Purani
C.O.A. CA/96/19836

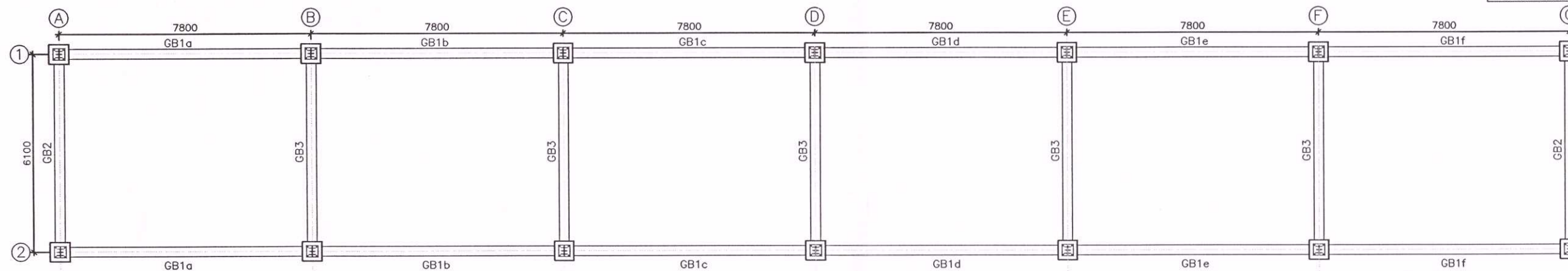
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DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT LALITARAO , HARIDWAR

DATE	25.11.2022	PROJECT ARCHITECT	AP
SCALE	-	CHECKED BY	SB
DRAWN BY	JP	APPROVED BY	NP
ELECTRICAL CONSULTANTS:		M.V.A.C	

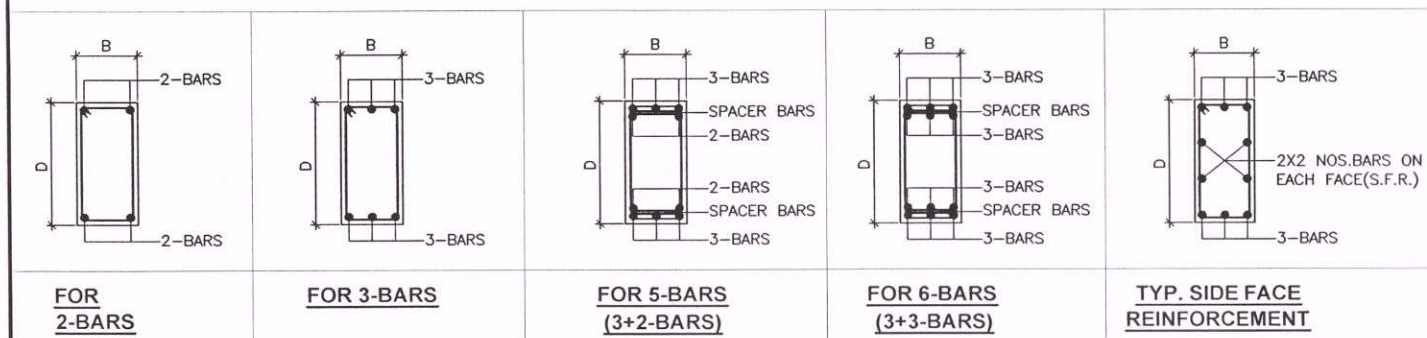
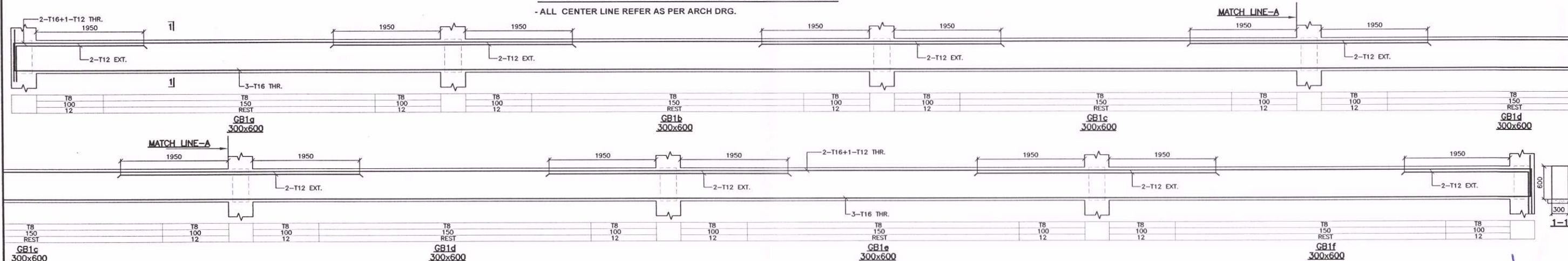
ARCHITECT & STRUCTURAL ENGINEERS
L.J. PURANI AND ASSOCIATES
303, GALA BUSINESS CENTER, ST. XAVIER'S COLLEGE CORNER, NAVRANGPURA, AHMEDABAD 380 009.
TEL. (079) 26446318, FAX. (079) 26565191.

DAMMP-LH-02-1.00	2211014	R0
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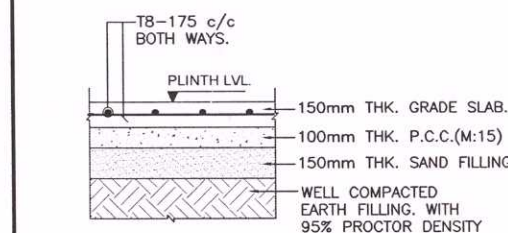
STRUCTURAL LAYOUT AT GROUND BEAM LVL.

- ALL CENTER LINE REFER AS PER ARCH DRG.



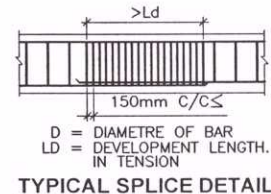
TYPICAL CROSS SECTIONAL DETAILS FOR PLACEMENT OF MAIN REINFORCEMENT IN BEAMS

- NOTES :
- VERTICAL CLEAR SPACING BETWEEN TWO LAYERS OF BARS SHALL BE 25 MM OR LARGER BAR DIAMETER, WHICH EVER IS MORE.
 - BARS WITH HIGHER DIAMETER SHALL BE PLACED IN OUTER LAYER, WHERE EVER POSSIBLE.

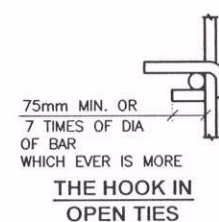


TYP. DETAIL FOR GRADE SLAB (UNO)

- * BLACK COTTON SOIL SHALL NOT BE USED FOR BACK FILLING PURPOSED.
- * BACK FILLING SHOULD BE DONE IN LAYERS OF 150mm THROUGH OUT AND IT IS COMPACTED TO 95% PROCTOR DENSITY.



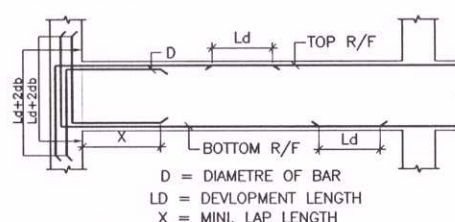
TYPICAL SPLICE DETAIL



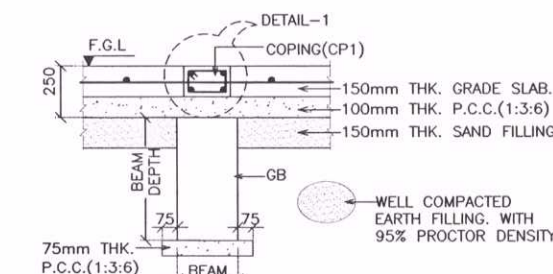
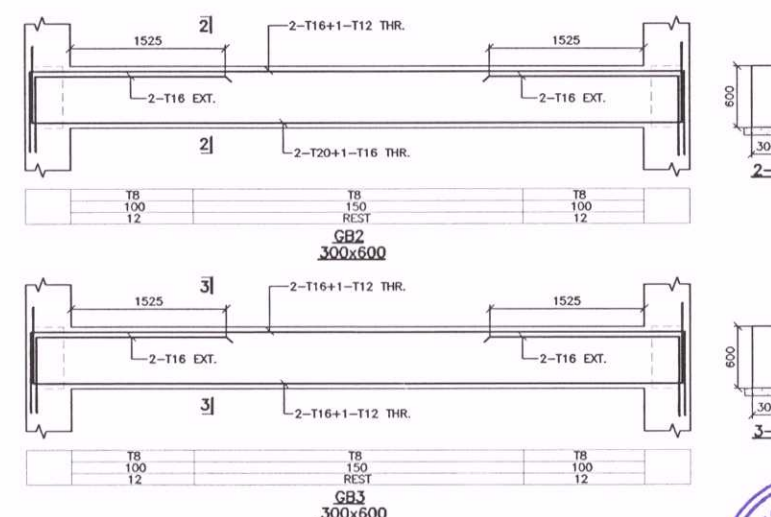
THE HOOK IN OPEN TIES



THE HOOK IN CLOSED TIES



TYPICAL BEAM DETAIL FOR MAIN BEAM



TYP. SECTION FOR GROUND BEAM

- GENERAL NOTES :
- (01) ALL DIMENSIONS ARE IN MM. AND LEVELS ARE AS PER ARCH. DRG. ARE TO BE READ & NOT TO BE MEASURED.
 - (02) ALL R.C.C. SHALL BE MACHINE MIXED & MACHINE VIBRATED. ALL CONC. MIX FOR R.C.C. SHALL BE AS PER FOLLOWING: ALL CONC. - M25 P.C.C. - M15 UNLESS OTHERWISE SPECIFIED. T.M.T. BARS CONFORMING TO I.S. 1786 - 2008 M.S. BARS CONFORMING TO I.S. 432 - 1982.
 - (03) FOR REINFORCEMENT CONSIDER GRADE FE 500D. :-
 - (04) MINIMUM CLEAR COVER TO CONCRETE :-
1. FOOTING - 50 mm
2. COLUMN & SHEAR WALL - 40 mm
3. BEAM - 30 mm
4. SLAB - 25 mm.
 - (05) LAPPING OF LONGITUDINAL BARS SHALL BE STAGGERED TO AVOID CONCENTRATION OF REINFORCEMENT.
 - (06) FOR ALL DIMENSIONS, LEVELS ETC. SHOULD BE CHECK WITH ARCHITECTURAL DRAWINGS BEFORE EXECUTION. IF FOUND ANY CONGESTION/DISCREPANCY, PLEASE CONSULT TO CONSULTANT IMMEDIATELY.

DATE	REV.	ARCH.	CLIENT	CONTR.	SITE	TOTAL	REMARK
06.02.23	R0	MAIL	-	-	-	-	FOR GFC.

NO.	DATE	REVISION HISTORY	REVISED BY	DRAWN BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

NO.	DATE	REVISION HISTORY	REVISED BY	DRAWN BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

GOOD FOR CONSTRUCTION

CLIENT NAME:

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

DRAWING TITLE:

GROUND BEAM LAYOUT & DETAILS

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

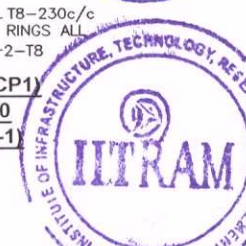
ARCHITECT & STRUCTURAL ENGINEERS	PROJECT NO.	REVISION
L.J. PURANI AND ASSOCIATES	2211014	R0
303, GALA BUSINESS CENTER, ST. XAVIER'S COLLEGE CORNER, MAYAPUR, AHMEDABAD 380 009.		
T.E.L. : (079) 26446318, FAX : (079) 26565181.		
E-mail : info@ljpurani.com		

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2211014

R0

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

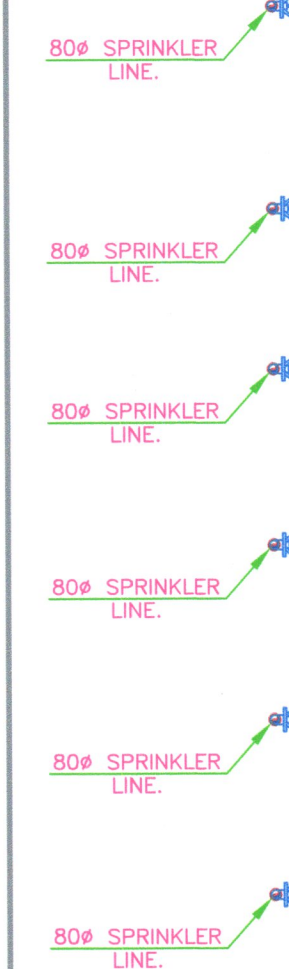


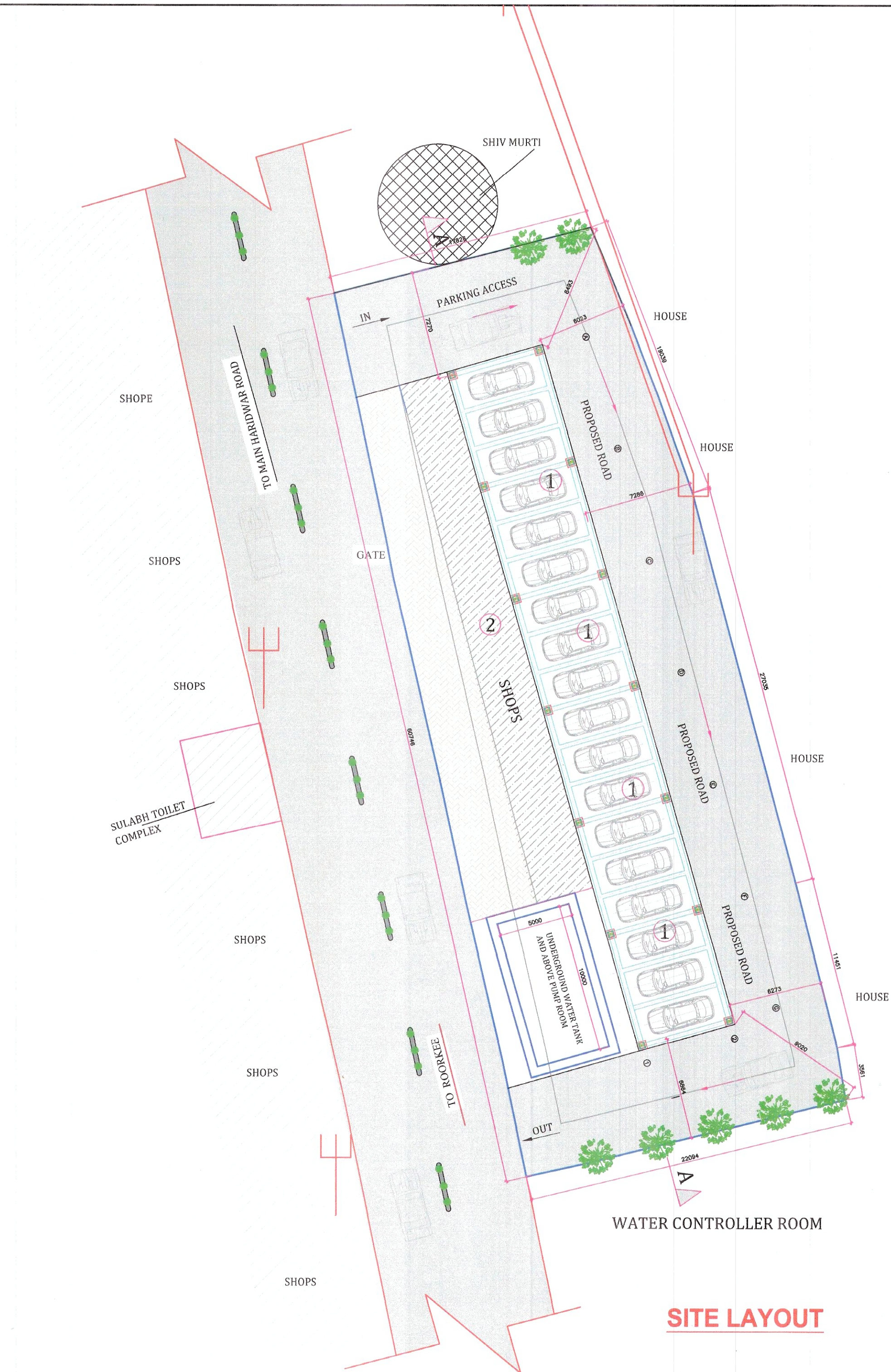
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Nilesh L. Purani
C.O.A. CA/96/10226

PROJECT:-	DEVELOPMENT OF AUTOMATED/MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT LALITARAO , HARIDWAR
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LEGEND	
TOTAL PLOT AREA	1274.90 SQMT
	13721.85 SQFT
	1524.65 SQYD
NUMBER OF CAR BLOCKS	2
TOTAL NUMBER OF CARS: 98	SEDAN
	SUV

93
Nilesh L. Purani
C.O.A. CA/96/19836

PRINTED: ISSUED:							
DATE	REV.	ARCH.	CLIENT	CONTR.	SITE	TOTAL	REMARK
25.11.22	RO	MAL	--	--	--	--	FOR GFC.
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NO.	DATE	REVISION HISTORY				REVISED BY	DRAWN BY
GOOD FOR CONSTRUCTION							
CLIENT NAME:							
DEVELOPMENT OF AUTOMATED/ MECHANIZED MULTILEVEL CAR PARKING SYSTEM AT LALITARAO, HARIDWAR							
DRAWING TITLE:							
SITE LAYOUT							
-							
DATE:	25.11.2022			PROJECT ARCHITECT: AP			
SCALE:	--			CHECKED BY: SB			
DRAWN BY:	JP			APPROVED BY: NP			
ELECTRICAL CONSULTANTS:				HVAC			
DRAWING NO.				PROJECT NO.		REVISION	
DAMMP-LH-02.1.00				2211014		RO	

