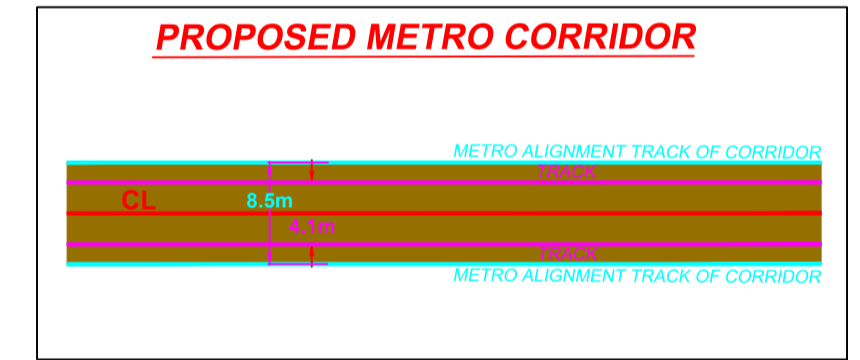


- LEGEND:**
- P --- STANDARD PIER
 - CP --- CANTILEVER PIER
 - PP --- PORTAL PIER
 - CS --- CURVE TO SPIRAL
 - ST --- SPIRAL TO TANGENT
 - TS --- TANGENT TO SPIRAL
 - SC --- SPIRAL TO CURVE
 - SS --- SPIRAL TO SPIRAL
 - SL --- STRAIGHT LENGTH
 - ELE --- ELEVATION
 - E --- EASTING
 - N --- NORTHING
 - G --- GRADIENT
 - HIP --- HORIZONTAL INTERSECTION POINT
 - D --- DEFLECTION ANGLE
 - L --- GRADE LENGTH
 - TRL --- TRANSITION LENGTH
 - TL --- TANGENT LENGTH
 - R --- RADIUS
 - CA --- APPLIED CANT
 - CD --- CANT DEFICIENCY
 - PVI --- POINT OF VERTICAL CURVE
 - SRJ --- STOCK RAIL JOINT
 - CH --- CHAINAGE
 - DELTA --- DEFLECTION ANGLE
 - CL --- CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - XY --- TRANSITION START & END
 - X = PIER TYPE
 - Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE STAGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRCL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
 - RAIL + RAIL PLINTH = 0.467m.
 - DOWNSTAND + BEARING + PEDESTAL = 0.4m.
 - DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
 GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAJ-CIVIL COURT --- PUNE/VANAJ-CIVIL COURT/GAD/ALG/01

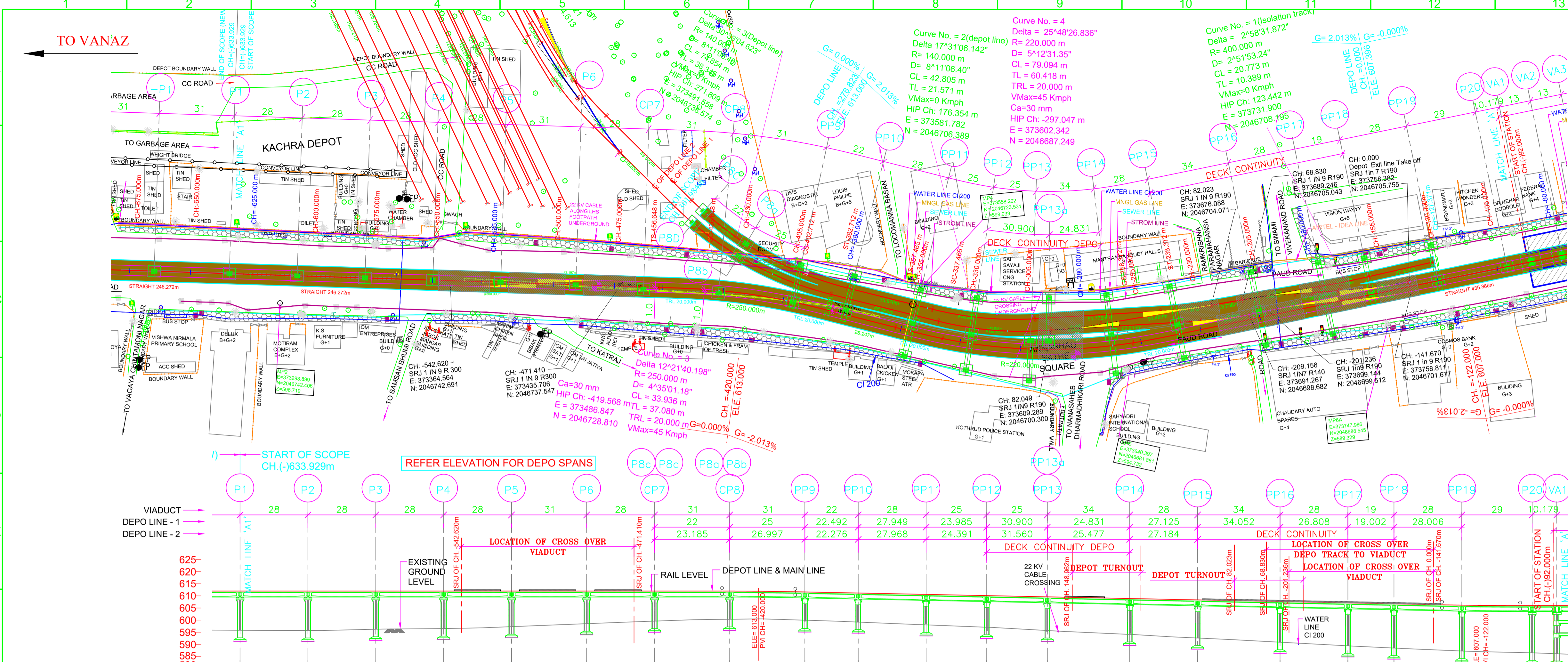


AWAITING ADJACENT STRUCTURE

- 625
- 620
- 615
- 610
- 605
- 600
- 595
- 590
- 585
- 580
- 575
- 570
- 565
- 560
- 555

VERTICAL ALIGNMENT	L = 489.901 m G = 0.000%									
HORIZONTAL ALIGNMENT	TRL = 25.000m	SL129.745m *	-781.543	TRL = 25.000m	-796.543	R = 3000.000m CL = 28.623m	TRL = 25.000m	-727.920	-702.920	SL246.272m *
ELEVATION DIFFERENCE (AS PER NIT)	14.347	14.414	14.472	14.514	14.554	14.833	14.965	15.341	15.726	16.186
ELEVATION DIFFERENCE (AS PER SURVEY)										
RAIL LEVELS (M)	613.000	613.000	613.000	613.000	613.000	613.000	613.000	613.000	613.000	613.000
GROUND LEVEL (M) (AS PER NIT)	598.653	598.586	598.528	598.486	598.446	598.167	598.035	597.659	597.274	596.814
GROUND LEVEL (M) (AS PER SURVEY)										
PROJECT CHAINAGES	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850
EASTING	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850	2046799.3850
NORTHING	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192	373009.9192

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE	DDC CONTRACTOR SIGN: _____ DATE: 30.07.18 NAME: SHW				CONTRACTOR SIGN: _____ DATE: 30.07.18 NAME: RVS				PROOF CONSULTANT SIGN: _____ DATE: 30.07.18 NAME: RPG				PROOF CONSULTANT SIGN: _____ DATE: 30.07.18 NAME: VLD				PROOF CHECKED & APPROVED BY GC BEING GIVEN NO OBJECTION ISSUED AS GOOD FOR CONSTRUCTION.				COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD. PROJECT: PUNE METRO RAIL PROJECT THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA
	DRAWN BY: _____ DESIGN BY: _____ CHECKED BY: _____ APPROVED BY: _____				ACCEPTED BY: _____				REVIEWED BY (STRUCT. ENGG.): _____ APPROVED BY (TEAM LEADER): _____				REVIEWED BY: _____ APPROVED BY: _____				CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD. LOCATION: REACH 2 TITLE: GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. -925.000m TO -633.929m SCALE: 1:1 DATE: 07.07.18 STATUS: FOR CRD APPROVAL DRG NO: P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 0-14)				
CONSULTANTS STRUCTCON DESIGNS PVT. LTD. SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066		NCC Limited OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA" OPP. BANER TELEPHONE EXCHANGE, BANER, BALEWADI ROAD, BANER, PUNE - 411045		STUP Consultants Pvt.Ltd. PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705		SYSTRA-AECOM-EGIS-RITES (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)		DY. HOD HIMANSHU GOSWAMI GM/DESIGN		SIGNATURE		REVISION NO: B02									



LEGEND:

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- SC - SPIRAL TO CURVE
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- PVI - POINT OF VERTICAL CURVE
- SRJ - STOCK RAIL JOINT
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- CL - CURVE LENGTH

TO CIVIL COURT

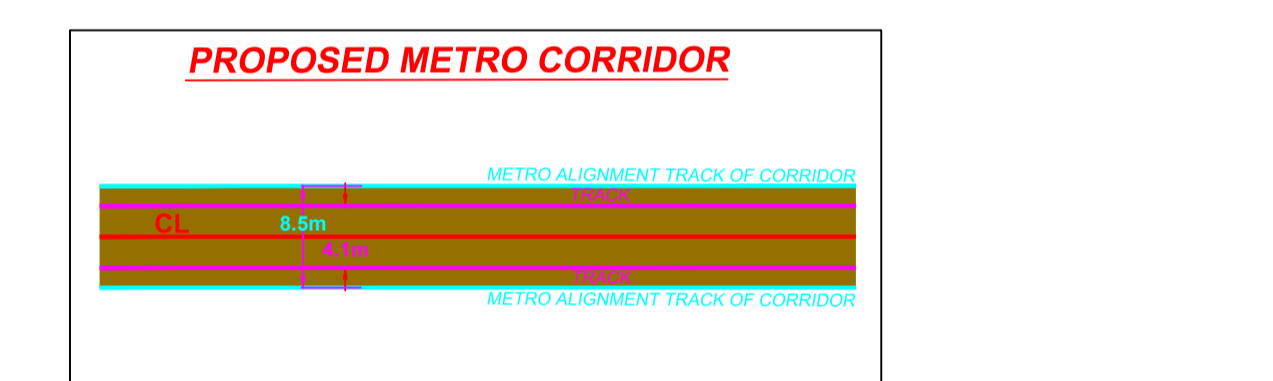
- ALIGNMENT CENTER LINE
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- METRO PORTION
- TRANSITION START & END
- X = PIER TYPE
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- WALKWAY (DECCAN TO SHINDE BRIDGE)

NOTES:

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DEPTH OF BOX GIRDER = 2.0m.
- ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01

VERTICAL ALIGNMENT	L=489.91m G=0.000%		L=30.195m R=1500.000		L=266.801m G=-2.013%		L=32.208m R=1600.000	
HORIZONTAL ALIGNMENT	SL246.272m*		SL25.247m*		SL20.000m*		SL435.866m*	
ELEVATION DIFFERENCE (AS PER NIT)	-16.186	-16.254	-15.140	-15.493	-14.697	-13.458	-12.401	-11.641
ELEVATION DIFFERENCE (AS PER SURVEY)	-16.186	-16.254	-15.140	-15.493	-14.697	-13.458	-12.401	-11.641
RAIL LEVELS (M)	613.000	613.000	613.000	613.000	613.000	613.000	613.000	613.000
GROUND LEVEL (M) (AS PER NIT)	596.814	596.746	597.200	597.507	598.303	599.542	600.599	601.356
GROUND LEVEL (M) (AS PER SURVEY)	596.814	596.746	597.200	597.507	598.303	599.542	600.599	601.356
PROJECT CHAINAGES	2046756.5396	2046759.9171	2046762.2946	2046764.6721	2046767.0496	2046769.4271	2046771.8046	2046774.1821
EASTING	373274.2877	373302.0524	373329.8171	373357.5818	373385.3464	373413.1111	373440.8758	373468.6405
NORTHING	2046756.5396	2046759.9171	2046762.2946	2046764.6721	2046767.0496	2046769.4271	2046771.8046	2046774.1821
VERTICAL ALIGNMENT (DEPO)	L=1583.227m G=0.000%		L=294.927m R=1600.000		L=262.719m G=2.013%		L=32.208m R=1600.000	
DEPO RAIL LEVELS (M)	613.000		612.925		612.850		612.775	
DEPO RAIL TO VIADUCT RAIL LEVELS DIFFERENCE (M)	0.118		0.128		0.138		0.148	



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL	CHIEF TRACTION	
	PD/DY. PD	
APPROVED	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B18	30.07.18	TITLE SHEET MODIFIED	
B17	23.07.18	DEPO PP12 TO PP14 SPAN ARRANGEMENT MODIFIED.	
B16	18.06.18	MODIFIED AS PER DISCUSSION HELD IN MEETING WITH GC.	
B15	13.06.18	REVISED AS PER MAIL RECEIVED ON 11.06.18	
B14	11.06.18	MODIFIED CHAINAGE AT SRJ LOCATION	
B13	07.06.18	REVISED AS PER MAIL RECEIVED ON 05.06.18	
B12	25.05.18	DEPO LINE PIER P8C & P8D MODIFIED	
B11	24.05.18	PP14 TO PP16 SPAN MODIFIED.	
B10	24.05.18	REVISED AS PER MAIL RECEIVED ON 23.05.18	
B09	04.04.18	REVISED AS PER MAIL RECEIVED ON 04.04.18	
B08	28.03.18	AS PER REVISED DEPO & MAIN LINE VERTICAL & HORIZONTAL DEPO ALIGNMENT RECEIVED ON 23.03.18	
B07	06.03.18	AS PER REVISED VERTICAL ALIGNMENT RECEIVED ON 24.02.18 & DEPO ALIGNMENT RECEIVED ON 06.03.18	
B06	25.01.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 20.01.18.	
B05	15.01.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE

DDC				CONTRACTOR				PROOF CONSULTANT				SYSTRA-AECOM-EGIS-RITES			
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18	DATE: 30.07.18
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---

ACCEPTED BY: _____ REVIEWED BY (STRUCT. ENGG.): _____ APPROVED BY (TEAM LEADER): _____

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC NCC Limited
 OFFICE NO. 03, 3RD FLOOR, 'PURUSHOTAM PLAZA', OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

HIMANSHU GOSWAMI GM/DESIGN

PROJECT: **PUNE METRO RAIL PROJECT**
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. -633.929m TO -90.750m**

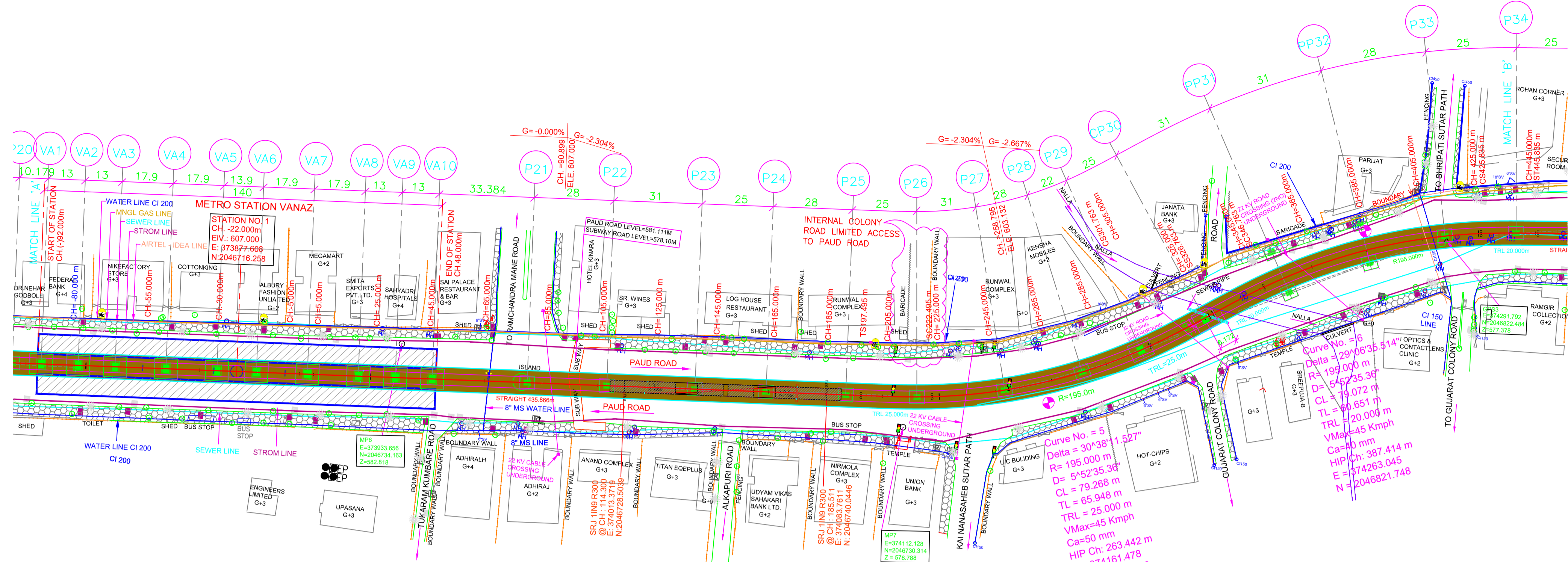
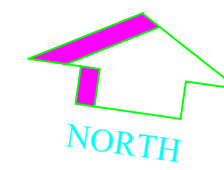
SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 1-14)**

REVISION NO: **B18**

TO VANAZ

TO CIVIL COURT



LEGEND:

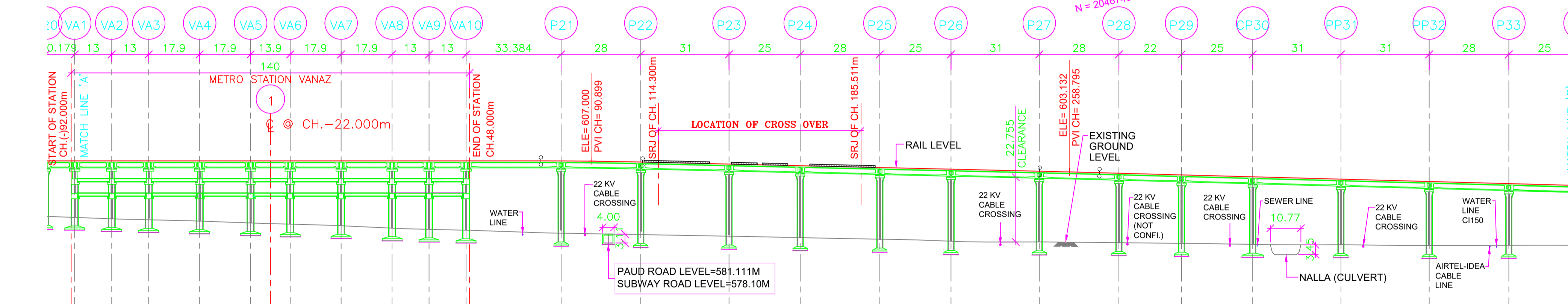
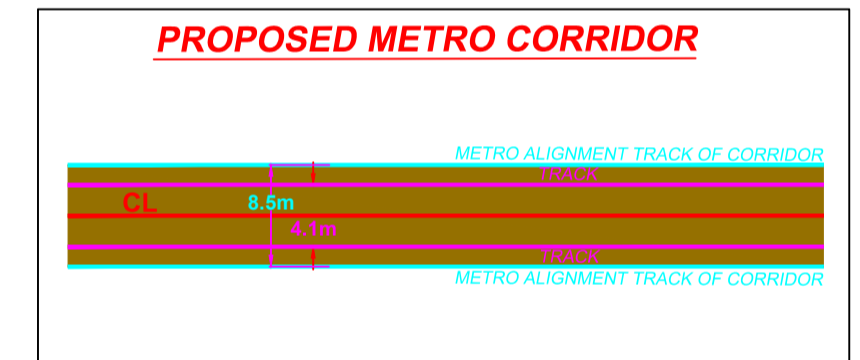
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DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
- ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.

GAD (ALIGNMENT PLAN & VERTICAL PROFILE)
FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT	L=178.939 m G=-0.000%		L=35.703 m R=1550.000		L=139.538 m G=-2.304%		L=225.685 m G=-2.667%	
HORIZONTAL ALIGNMENT	SL435.866m		TRL=25.000m		R=195.000m CL=79.268m		R=195.000m CL=79.072m	
ELEVATION DIFFERENCE (AS PER NIT)	19.382	19.854	20.347	20.887	21.141	21.791	22.019	22.215
ELEVATION DIFFERENCE (AS PER SURVEY)	19.382	19.854	20.347	20.887	21.141	21.791	22.019	22.215
RAIL LEVELS (M)	607.000	607.000	607.000	607.000	607.000	607.000	607.000	607.000
GROUND LEVEL (M) (AS PER NIT)	587.518	587.146	586.653	586.313	585.859	585.209	584.981	584.785
GROUND LEVEL (M) (AS PER SURVEY)	587.518	587.146	586.653	586.313	585.859	585.209	584.981	584.785
PROJECT CHAINAGES	100.000	190.750	277.750	364.750	446.850	528.950	612.000	695.050
EASTING	373769.1135	373809.2363	373822.165	373835.093	373852.895	373870.696	373877.608	373884.519
NORTHING	2046707.8857	2046709.0525	2046710.415	2046711.777	2046713.653	2046715.529	2046716.258	2046716.986

REV NO	DATE	DESCRIPTION	SIGN
B15	30.07.18	TITLE SHEET MODIFIED	
B14	27.03.18	AS MARKED	
B13	06.03.18	AS PER REVISED VERTICAL ALIGNMENT RECEIVED ON 24.02.18	
B12	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B11	15.01.18	HOLD PORTION REMOVED	
B10	19.12.17	REVISED AS PER LETTER NO. GCP/PMRP/POO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B09	15.11.17	REVISED AS PER LETTER NO. GCP/PMRP/POO/TRK/SDP/2017/0241 DATED 08.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
B8	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
B7	17.10.17	MODIFIED VERTICAL ALIGNMENT CONSIDERING SINGLE CROSS OVER AFTER VANAZ STATION	
B6	14.10.17	MODIFIED TO VERTICAL ALIGNMENT FOR VANAZ STATION TO PP38	

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DDC		CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

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STUP Consultants Pvt.Ltd.
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME: ---	NAME: ---
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROOF CHECKED & APPROVED BY GC

BEING GIVEN NO OBJECTION

ISSUED AS GOOD FOR CONSTRUCTION.

PROF. HOD

HOD

HIMANSHU GOSWAMI GM/DESIGN

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

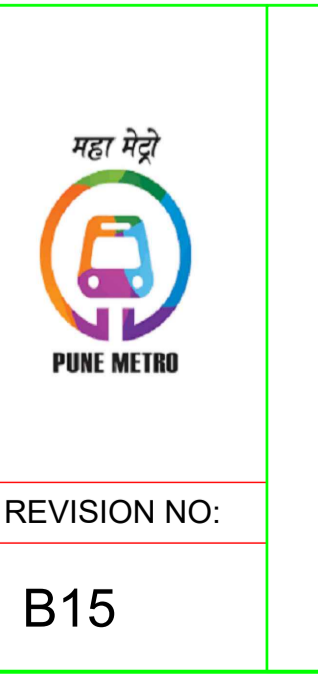
TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. -90.750M TO 438.134M**

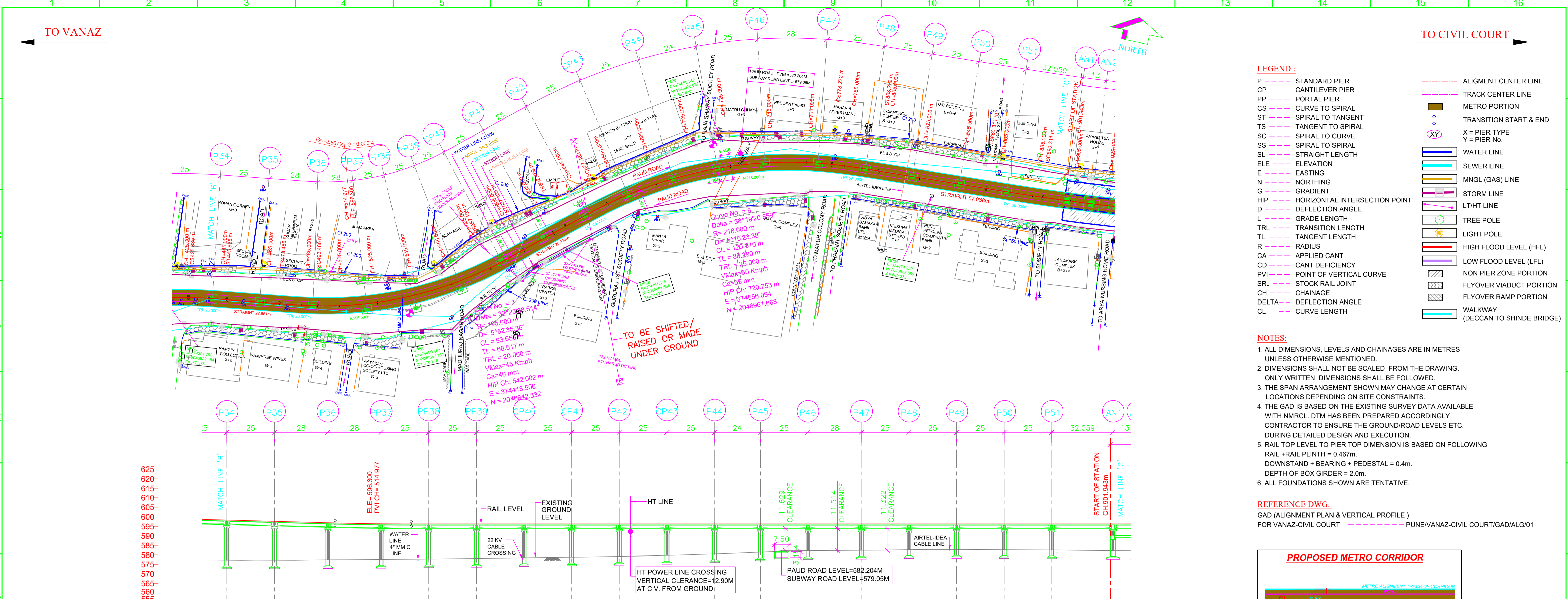
SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 2-14)**

REVISION NO: **B15**

GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
PMRCL APPROVED	CHIEF SIGNALING	
	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	



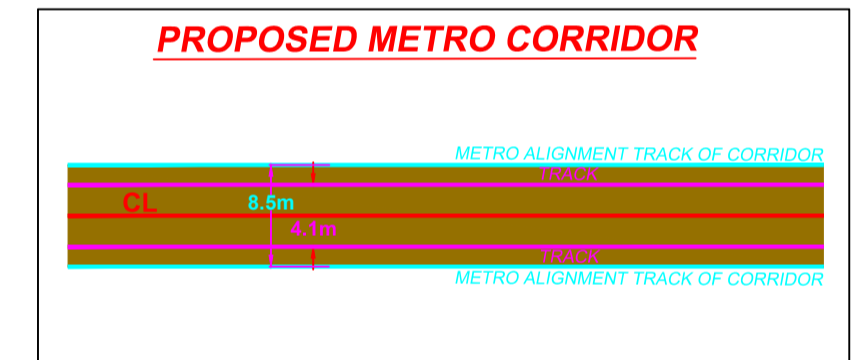


- LEGEND:**
- P --- STANDARD PIER
 - CP --- CANTILEVER PIER
 - PP --- PORTAL PIER
 - CS --- CURVE TO SPIRAL
 - ST --- SPIRAL TO TANGENT
 - TS --- TANGENT TO SPIRAL
 - SC --- SPIRAL TO CURVE
 - SS --- SPIRAL TO SPIRAL
 - SL --- STRAIGHT LENGTH
 - ELE --- ELEVATION
 - E --- EASTING
 - N --- NORTHING
 - G --- GRADIENT
 - HIP --- HORIZONTAL INTERSECTION POINT
 - D --- DEFLECTION ANGLE
 - L --- GRADE LENGTH
 - TRL --- TRANSITION LENGTH
 - TL --- TANGENT LENGTH
 - R --- RADIUS
 - CA --- APPLIED CANT
 - CD --- CANT DEFICIENCY
 - PVI --- POINT OF VERTICAL CURVE
 - SRJ --- STOCK RAIL JOINT
 - CH --- CHAINAGE
 - DELTA --- DEFLECTION ANGLE
 - CL --- CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - XY --- X = PIER TYPE, Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01

VERTICAL ALIGNMENT	L = 39.986 m R = 1500.000		L = 534.674		L = 551.816 m G = 0.000%	
HORIZONTAL ALIGNMENT	TRL=20.000m	SL27.851m*	TRL=20.000m	R=195.000m CL=-93.653m	TRL=20.000m	SL57.038m*
ELEVATION DIFFERENCE (AS PER NIT)	-21.045	-20.405	-19.467	-18.725	-18.434	-18.143
ELEVATION DIFFERENCE (AS PER SURVEY)						
RAIL LEVELS (M)	598.349	597.893	596.930	596.384	596.300	596.300
GROUND LEVEL (M) (AS PER NIT)	577.304	577.278	577.479	577.659	577.866	578.157
GROUND LEVEL (M) (AS PER SURVEY)						
PROJECT CHAINAGES	438.134	463.134	491.134	519.134	544.134	568.134
EASTING	374315.540	374340.321	374368.046	374395.202	374418.416	374440.259
NORTHING	2046826.679	2046831.980	2046835.880	2046842.611	2046851.844	2046859.969



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
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	PD/DY. PD	
PMRCL		
APPROVED	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B11	30.07.18	TITLE SHEET MODIFIED	
B10	12.02.18	PIER P45 SHIFTED BY 1M TOWARDS VANAZ SIDE	
B09	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B08	19.12.17	REVISED AS PER LETTER NO. GCP/PMR/PPDO/STR/SOP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B07	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PPDO/STR/SOP/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R6	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R5	17.10.17	MODIFIED VERTICAL ALIGNMENT CONSIDERING SINGLE CROSS OVER AFTER VANAZ STATION	
R4	14.10.17	CROSS OVER ADDED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 12.10.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 3-14) REV. B07 APPROVED ON DATE 28.11.17

DDC		CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: ---	DATE: ---
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)

CONSTRUCTORS
STRUCTCON DESIGNS PVT. LTD.
SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CHECKED & APPROVED BY GC

BEING GIVEN NO OBJECTION

ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 438.134m TO 903.193m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 3-14)**

REVISION NO: **B11**

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 438.134m TO 903.193m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

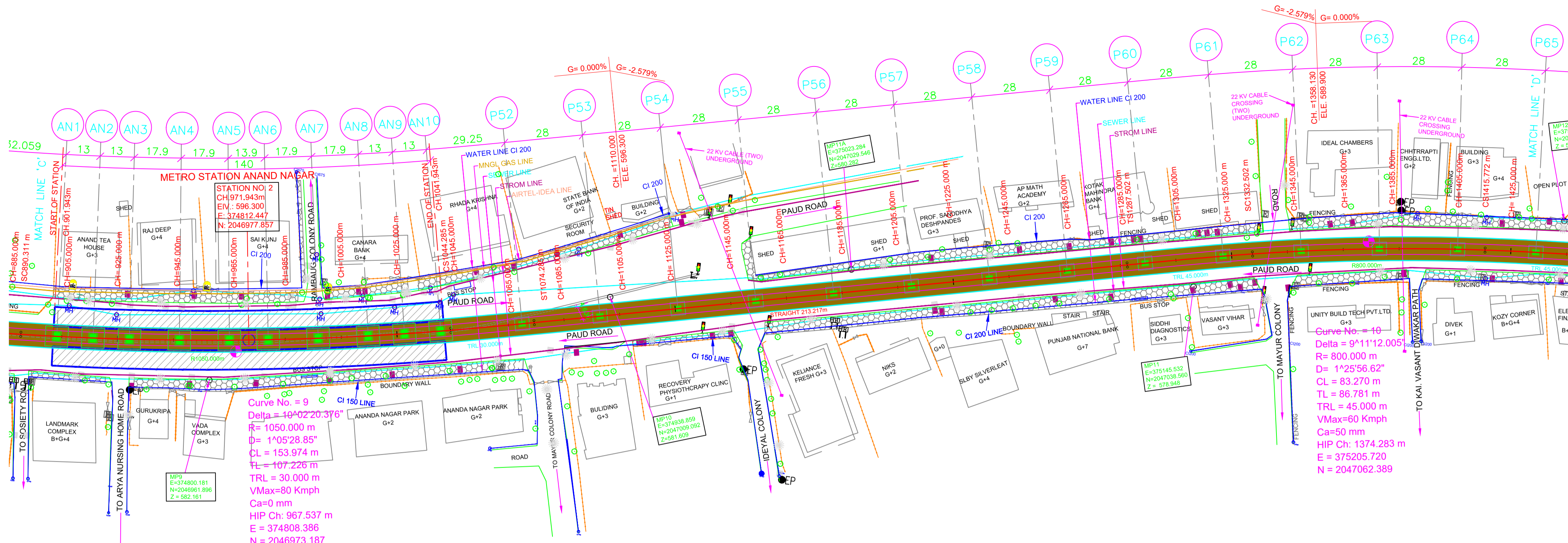
DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 3-14)**

REVISION NO: **B11**

plot scale: 1:1000

TO VANAZ

TO CIVIL COURT



LEGEND:

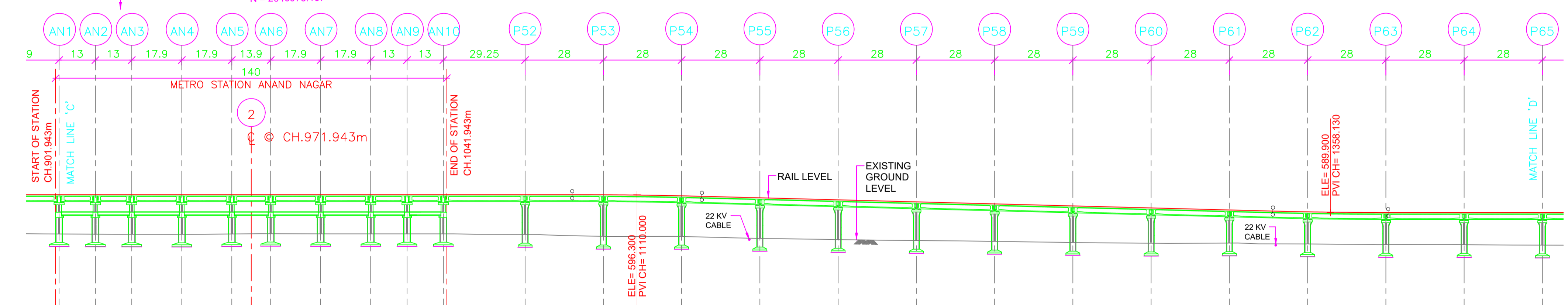
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- LOW FLOOD LEVEL (LFL)
- NON PIER ZONE PORTION
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- FLYOVER RAMP PORTION
- WALKWAY (DECCAN TO SHINDE BRIDGE)

NOTES:

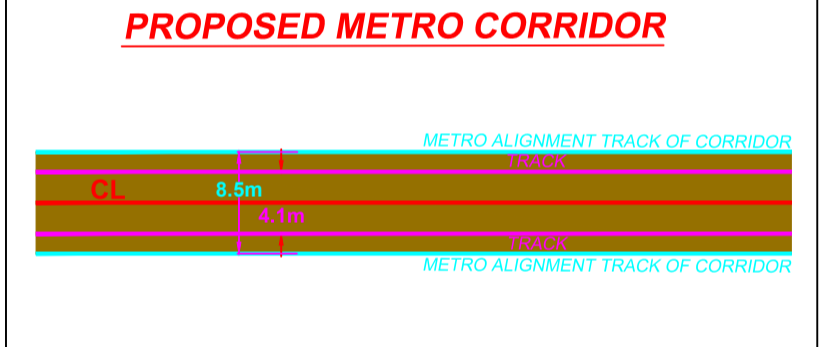
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RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
- ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.

GAD (ALIGNMENT PLAN & VERTICAL PROFILE)
FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT																										
HORIZONTAL ALIGNMENT																										
ELEVATION DIFFERENCE (AS PER NIT)	14.064	14.131	14.186	14.225	14.061	13.982	13.958	14.008	14.017	14.017	14.016	14.246	14.876	14.526	14.506	14.206	13.836	13.412	13.077	12.621	11.832	11.479	11.465	11.485	11.645	
ELEVATION DIFFERENCE (AS PER SURVEY)																										
RAIL LEVELS (M)	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.300	596.285	595.874	593.000	592.278	591.596	590.833	590.160	589.900	589.900	589.900	589.900	589.900	589.900	589.900
GROUND LEVEL (M) (AS PER NIT)	582.236	582.169	582.114	582.075	582.239	582.318	582.342	582.292	582.283	582.283	582.284	582.064	581.389	580.348	580.661	580.238	579.886	579.001	578.681	578.435	578.415	578.415	578.415	578.415	578.255	576.255
GROUND LEVEL (M) (AS PER SURVEY)																										
PROJECT CHAINAGES	903.193	916.193	929.193	947.093	964.993	971.943	978.893	986.793	994.693	1002.593	1010.493	1018.393	1026.293	1034.193	1042.093	1049.993	1057.893	1065.793	1073.693	1081.593	1089.493	1097.393	1105.293	1113.193	1121.093	1128.993
EASTING	2046970.668	2046971.676	2046972.684	2046974.738	2046976.826	2046977.857	2046978.853	2046981.558	2046984.583	2046986.989	2046989.513	2046992.244	2046995.000	2046997.787	2047000.604	2047003.451	2047006.327	2047009.233	2047012.168	2047015.133	2047018.127	2047021.150	2047024.202	2047027.283	2047030.394	2047033.535
NORTHING	2046970.668	2046971.676	2046972.684	2046974.738	2046976.826	2046977.857	2046978.853	2046981.558	2046984.583	2046986.989	2046989.513	2046992.244	2046995.000	2046997.787	2047000.604	2047003.451	2047006.327	2047009.233	2047012.168	2047015.133	2047018.127	2047021.150	2047024.202	2047027.283	2047030.394	2047033.535



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
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	CHIEF RESIDENT ENG.	
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	ACPM, R2	
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	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B06	30.07.18	TITLE SHEET MODIFIED	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	19.12.17	REVISED AS PER LETTER NO. GCP/PMR/PDO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PDO/TRK/SDPL/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

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DDC				CONTRACTOR				PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: ---	DATE: ---	DATE: ---	DATE: ---
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---
DRAWN BY				DESIGN BY				CHECKED BY			
DESIGNED BY				APPROVED BY				ACCEPTED BY			
REVIEWED BY (STRUCT. ENGG.)				APPROVED BY (TEAM LEADER)				REVIEWED BY			
APPROVED BY				APPROVED BY				APPROVED BY			

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

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STUP Consultants Pvt.Ltd.
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROOF CHECKED & APPROVED BY GC

BEING GIVEN NO OBJECTION

ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 903.193m TO 1433.943m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 4-14)**

REVISION NO: **B06**

REVISED AS PER LETTER NO. GCP/PMR/PDO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17

REVISED AS PER LETTER NO. GCP/PMR/PDO/TRK/SDPL/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17

LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)

REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL

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PROOF CHECKED & APPROVED BY GC

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COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 903.193m TO 1433.943m**

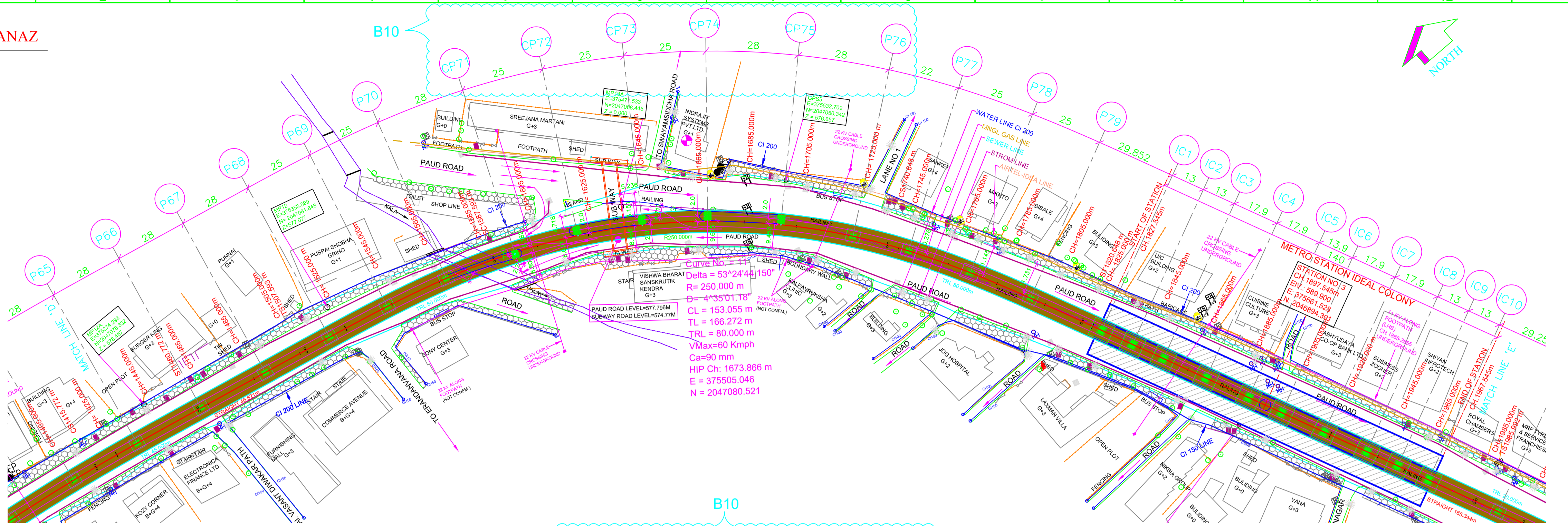
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DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 4-14)**

REVISION NO: **B06**

TO VANAZ

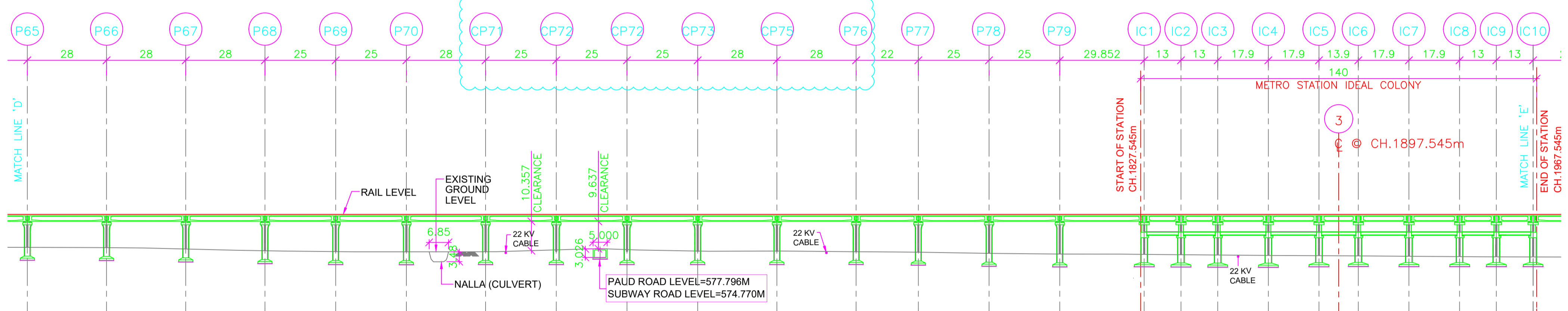
TO CIVIL COURT



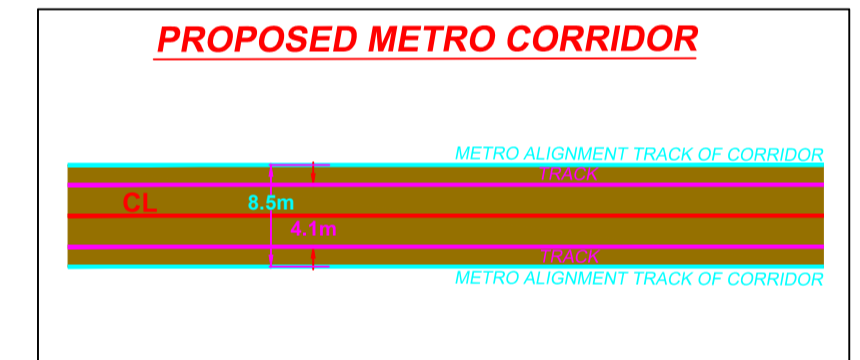
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 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - XY - X = PIER TYPE, Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT	L = 898.394 m G = 0.000%																											
HORIZONTAL ALIGNMENT	TRL = 45.000m SL 46.821m* TRL = 80.000m R = 250.000m CL = 153.055m TRL = 80.000m SL 165.344m*																											
ELEVATION DIFFERENCE (AS PER NIT)	11.845	11.745	12.241	12.844	13.146	13.216	13.191	12.530	12.110	12.449	12.963	12.942	13.185	13.366	13.762	14.005	14.121	14.235	14.348	14.500	14.589	14.620	14.664	14.795	14.928	15.006	15.033	
ELEVATION DIFFERENCE (AS PER SURVEY)																												
RAIL LEVELS (M)	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900	589.900
GROUND LEVEL (M) (AS PER NIT)	576.255	578.155	577.659	577.056	576.754	576.684	576.709	577.370	577.790	577.451	576.937	576.956	576.715	576.534	576.665	576.552	576.400	576.311	575.280	575.236	575.400	575.311	575.280	575.236	575.105	574.972	574.894	574.867
GROUND LEVEL (M) (AS PER SURVEY)																												
PROJECT CHAINAGES	1433.943	1461.943	1489.943	1517.943	1545.943	1567.943	1595.943	1620.943	1636.433	1645.943	1670.943	1686.943	1728.943	1748.943	1773.943	1798.943	1828.795	1841.795	1854.795	1872.695	1890.595	1897.545	1904.495	1922.395	1940.295	1953.295	1966.295	
EASTING	2047065.925	2047067.707	2047069.490	2047071.084	2047072.237	2047073.378	2047074.427	2047075.486	2047076.552	2047077.624	2047078.703	2047079.789	2047080.882	2047081.982	2047083.088	2047084.200	2047085.318	2047086.442	2047087.572	2047088.707	2047089.847	2047091.092	2047092.342	2047093.597	2047094.857	2047096.122	2047097.392	2047098.667
NORTHING																												



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL	CHIEF TRACTION	
	PD/DY. PD	
	APPROVED	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B10	18.08.18	SPAN ARRANGEMENT MODIFIED AS PER MAIL RECEIVED ON 18.08.18	
B09	08.08.18	SPAN ARRANGEMENT MODIFIED AS PER DISCUSSION IN WEEKLY MEETING DATED 07.08.18	
B08	30.07.18	TITLE SHEET MODIFIED	
B07	26.06.18	REVISED AS PER SITE CONDITIONS, UTILITIES AT P76	
B06	21.03.18	P73, P74 & P75 CONVERTED TO CANTILEVER PIER	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	19.12.17	REVISED AS PER LETTER NO. GCP/PMR/PO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PO/STR/SDP/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE

DDC				CONTRACTOR				PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18	DATE: 18.08.18
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---
DRAWN BY				DESIGN BY				CHECKED BY			
APPROVED BY				ACCEPTED BY				REVIEWED BY (STRUCT. ENGG.)			
APPROVED BY				APPROVED BY (TEAM LEADER)				REVIEWED BY			

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
 OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROOF CHECKED & APPROVED BY GC
 BEING GIVEN NO OBJECTION
 ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 1433.943m TO 1966.295m**

SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

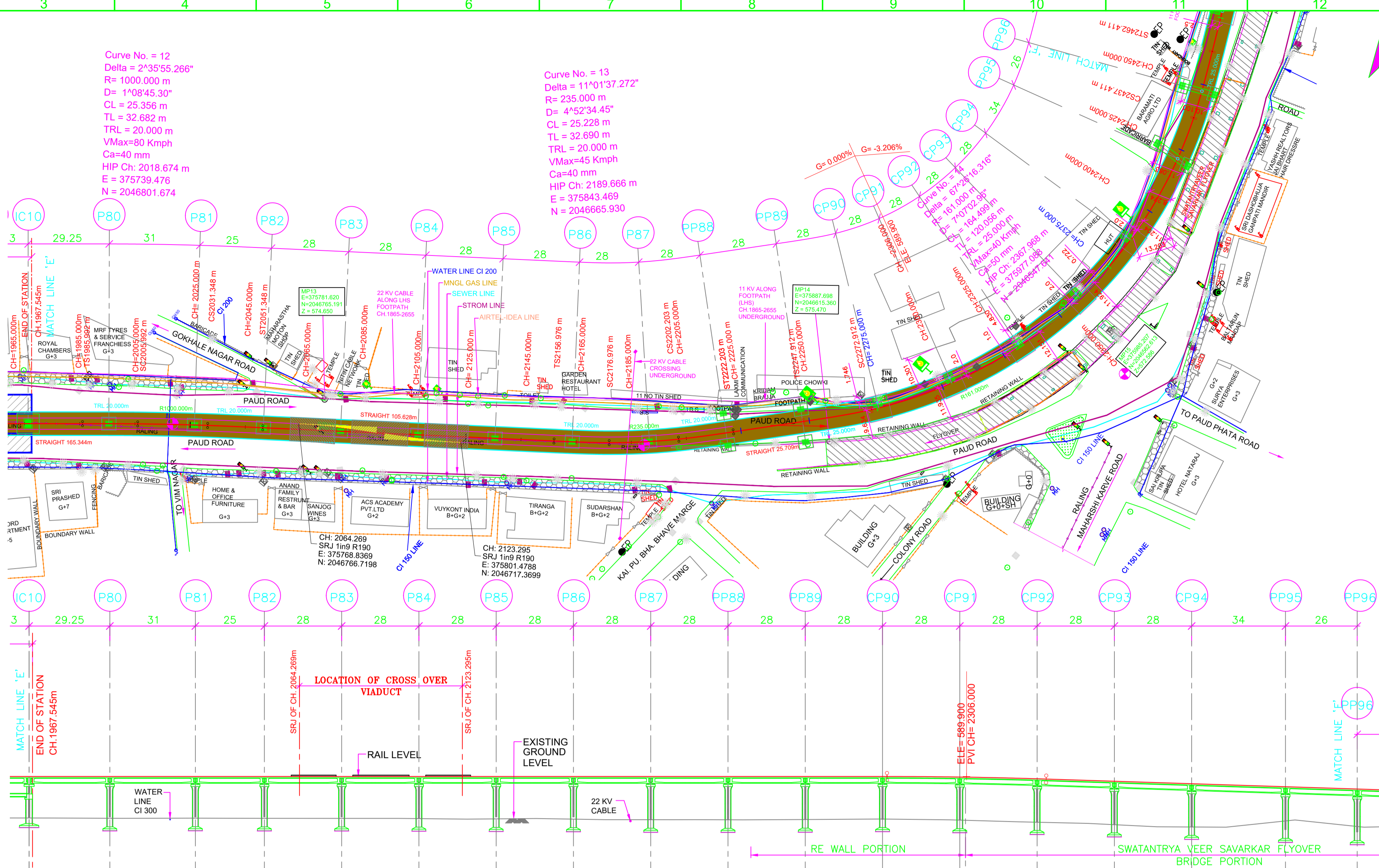
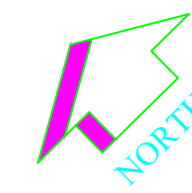
DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 5-14)**

HOD: **HIMANSHU GOSWAMI GM/DESIGN**

REV NO	DATE	DESCRIPTION	SIGN
B10	18.08.18	SPAN ARRANGEMENT MODIFIED AS PER MAIL RECEIVED ON 18.08.18	
B09	08.08.18	SPAN ARRANGEMENT MODIFIED AS PER DISCUSSION IN WEEKLY MEETING DATED 07.08.18	
B08	30.07.18	TITLE SHEET MODIFIED	
B07	26.06.18	REVISED AS PER SITE CONDITIONS, UTILITIES AT P76	
B06	21.03.18	P73, P74 & P75 CONVERTED TO CANTILEVER PIER	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	19.12.17	REVISED AS PER LETTER NO. GCP/PMR/PO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PO/STR/SDP/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

TO VANAZ

TO CIVIL COURT

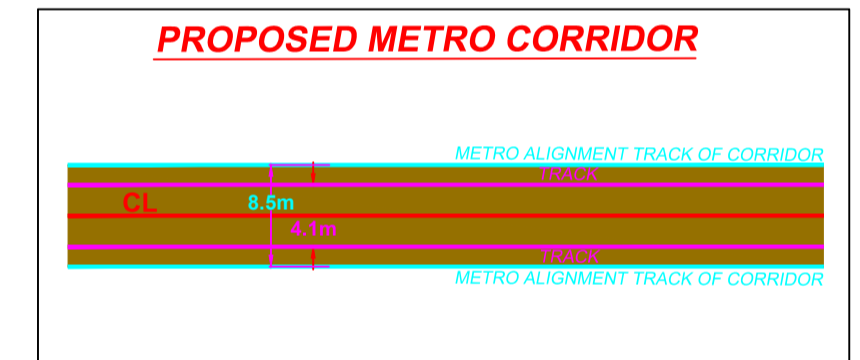


LEGEND:

P	STANDARD PIER	— — — — —	ALIGNMENT CENTER LINE	
CP	CANTILEVER PIER	— — — — —	TRACK CENTER LINE	
PP	PORTAL PIER	— — — — —	METRO PORTION	
CS	CURVE TO SPIRAL	— — — — —	TRANSITION START & END	
ST	SPIRAL TO TANGENT	— — — — —	XY	X = PIER TYPE Y = PIER No.
TS	TANGENT TO SPIRAL	— — — — —	— — — — —	WATER LINE
SC	SPIRAL TO CURVE	— — — — —	— — — — —	SEWER LINE
SS	SPIRAL TO SPIRAL	— — — — —	— — — — —	MNGL (GAS) LINE
SL	STRAIGHT LENGTH	— — — — —	— — — — —	STORM LINE
ELE	ELEVATION	— — — — —	— — — — —	LT/HT LINE
E	EASTING	— — — — —	— — — — —	TREE POLE
N	NORTHING	— — — — —	— — — — —	LIGHT POLE
G	GRADIENT	— — — — —	— — — — —	HIGH FLOOD LEVEL (HFL)
HIP	HORIZONTAL INTERSECTION POINT	— — — — —	— — — — —	LOW FLOOD LEVEL (LFL)
D	DEFLECTION ANGLE	— — — — —	— — — — —	NON PIER ZONE PORTION
L	GRADE LENGTH	— — — — —	— — — — —	FLYOVER VIADUCT PORTION
TRL	TRANSITION LENGTH	— — — — —	— — — — —	FLYOVER RAMP PORTION
TL	TANGENT LENGTH	— — — — —	— — — — —	WALKWAY (DECCAN TO SHINDE BRIDGE)
R	RADIUS	— — — — —	— — — — —	
CA	APPLIED CANT	— — — — —	— — — — —	
CD	CANT DEFICIENCY	— — — — —	— — — — —	
PVI	POINT OF VERTICAL CURVE	— — — — —	— — — — —	
SRJ	STOCK RAIL JOINT	— — — — —	— — — — —	
CH	CHAINAGE	— — — — —	— — — — —	
DELTA	DEFLECTION ANGLE	— — — — —	— — — — —	
CL	CURVE LENGTH	— — — — —	— — — — —	

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE CALLED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRC. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT — PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT	L=898.394 m G=0.000%										L=57.674 m R=1800.000		L=156.146 m G=-3.206%																							
HORIZONTAL ALIGNMENT	1885.992 TRL=20.000m		2005.992 CL=25.356m		2031.347 TRL=20.000m		2061.347 SL105.628m*		2156.975 TRL=20.000m		2176.975 R=-235.000m CL=-25.228m		2202.203 TRL=20.000m		2222.203 SL25.709m*		2247.912 TRL=25.000m		2272.912 R=-161.000m CL=164.499m		2437.411 TRL=25.000m															
ELEVATION DIFFERENCE (AS PER NIT)	-15.033		-15.133		-15.079		-15.150		-15.170		-15.244		-15.346		-15.446		-15.645		-15.677		-15.581		-15.410		-15.610		-15.744		-15.734		-15.665		-12.400		-13.554	
ELEVATION DIFFERENCE (AS PER SURVEY)	-15.033		-15.133		-15.079		-15.150		-15.170		-15.244		-15.346		-15.446		-15.645		-15.677		-15.581		-15.410		-15.610		-15.744		-15.734		-15.665		-12.400		-13.554	
RAIL LEVELS (M)	589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900		589.900	
GROUND LEVEL (M) (AS PER NIT)	574.867		574.767		574.821		574.750		574.730		574.656		574.552		574.454		574.255		574.223		574.319		574.450		574.036		573.334		572.450		571.621		573.796		571.808	
GROUND LEVEL (M) (AS PER SURVEY)	574.867		574.767		574.821		574.750		574.730		574.656		574.552		574.454		574.255		574.223		574.319		574.450		574.036		573.334		572.450		571.621		573.796		571.808	
PROJECT CHAINAGES	1966.295		1995.545		2026.545		2061.545		2079.545		2105.545		2163.545		2191.545		2227.545		2247.545		2272.545		2298.545		2324.545		2350.545		2376.545		2402.545		2428.545		2454.545	
EASTING	375705.770		375724.597		375744.1682		375759.472		375776.500		375793.528		375810.556		375827.582		375844.609		375861.637		375878.665		375895.693		375912.721		375929.749		375946.777		375963.805		375980.833		375997.861	
NORTHING	2046841.787		2046810.373		2046796.3420		2046775.574		2046753.347		2046731.119		2046708.892		2046686.671		2046664.450		2046642.229		2046620.008		2046597.787		2046575.566		2046553.345		2046531.124		2046508.903		2046486.682		2046464.461	

GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT CHIEF RESIDENT ENG. ALIGNMENT EXPERT CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN) CHIEF SIGNALING CHIEF TRACTION PD/DY. PD	
PMRCL		
APPROVED	ACPM, R2 CPM, R2 DGM (VIADUCT & DESIGN) JGM (STATION DESIGN) GM (DESIGN) AGM (PLG) GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B10	20.08.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED FOR PIER PP88 TO P103	
B09	15.06.18	CROSS OVER ADDED AS PER MAIL RECEIVED ON 14.06.18	
B08	04.05.18	P81 SHIFTED BY 3.0m TOWARDS P82 (AS PER SITE CONDITION)	
B07	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B06	15.01.18	VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	
B05	21.12.17	REVISED ALIGNMENT FOR P80 TO P100	
B04	15.11.17	REVISED AS PER LETTER NO. C/PMRCL/001 TRKS/DR/2017/041 DATED 09.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R3	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 3) & SPAN ARRANGEMENT MODIFIED FROM PP88 TO PP96	
R2	14.10.17	CROSS OVER REMOVED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 12.10.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE

DDC				CONTRACTOR				PROOF CONSULTANT							
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:				
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18				
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---				
DRAWN BY				DESIGN BY				CHECKED BY				APPROVED BY			
ACCEPTED BY				ACCEPTED BY				REVIEWED BY (STRUCT. ENGG.)				APPROVED BY (TEAM LEADER)			

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
 OFFICE NO. 03, 3RD FLOOR, 'PURUSHOTTAM PLAZA', OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CHECKED & APPROVED BY GC
 BEING GIVEN NO OBJECTION
 ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 1966.295m TO 2447.545m**

SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 6-14)**

REVISION NO: **B10**

plot scale: 1:10000

MAHARASHTRA METRO RAIL CORPORATION LTD.

HOD: **HIMANSHU GOSWAMI GM/DESIGN**

PROJECT: **PUNE METRO RAIL PROJECT**

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

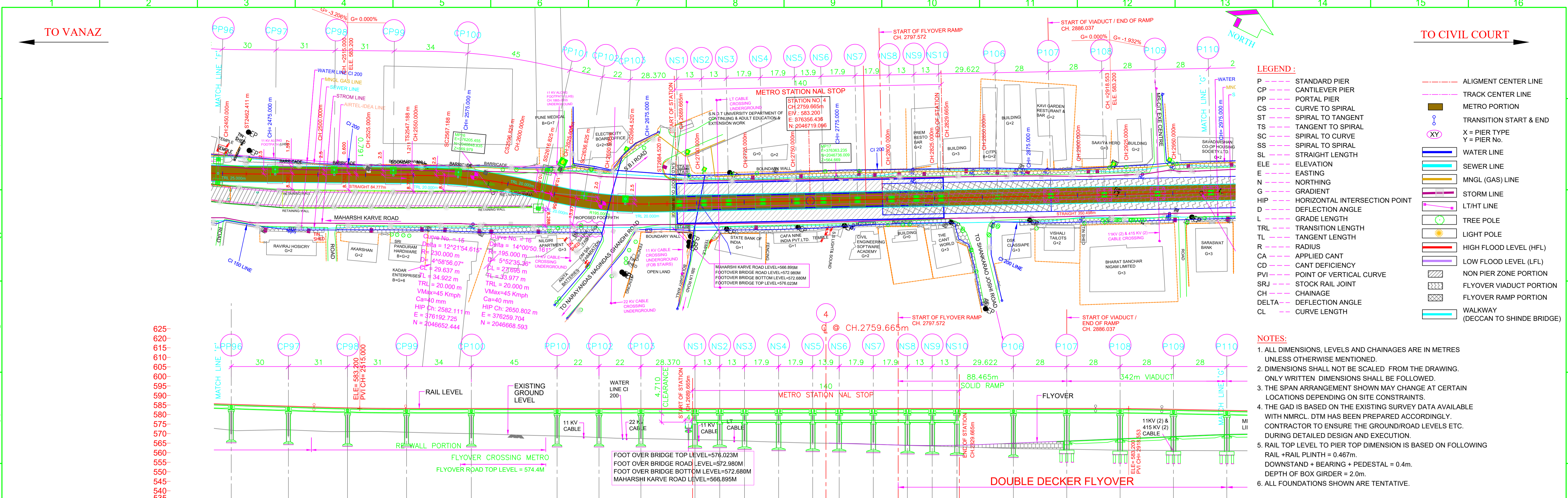
LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 1966.295m TO 2447.545m**

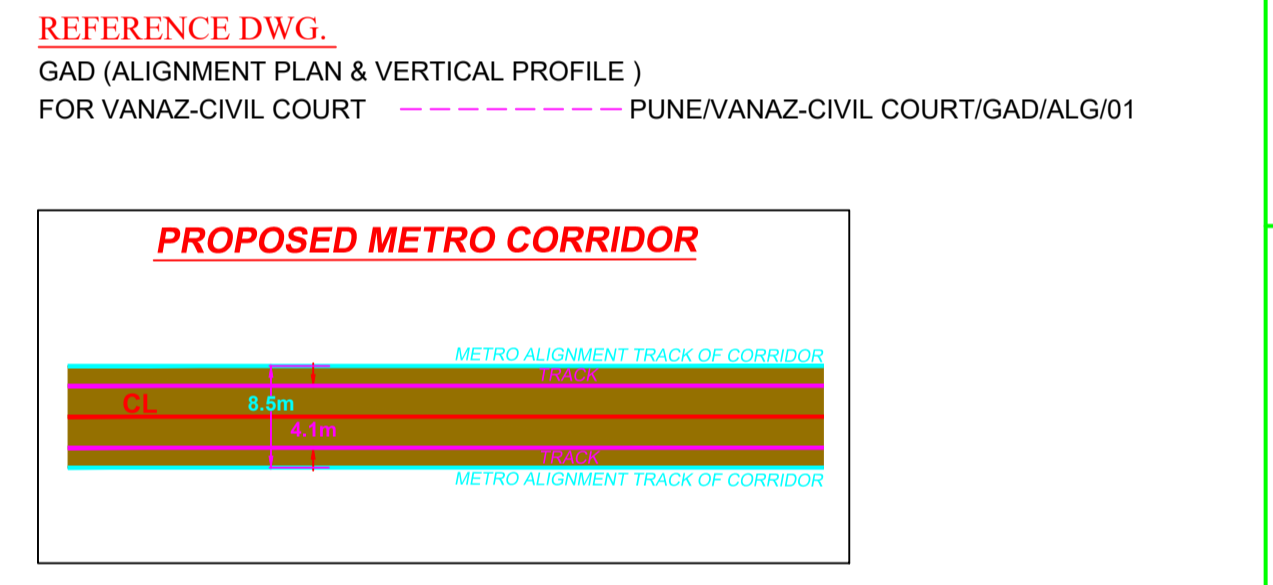
SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 6-14)**

REVISION NO: **B10**



VERTICAL ALIGNMENT	L=48.061 m R=1500.000		L=362.132 m G=0.000%		L=34.765 m R=1800.000	
HORIZONTAL ALIGNMENT	SL 84.777m*					
ELEVATION DIFFERENCE (AS PER NIT)	-13.554	-12.443	-12.432	-12.458	-13.202	-14.415
ELEVATION DIFFERENCE (AS PER SURVEY)	-13.554	-12.443	-12.432	-12.458	-13.202	-14.415
RAIL LEVELS (M)	565.962	564.401	563.510	563.200	563.200	563.200
GROUND LEVEL (M) (AS PER NIT)	571.808	571.958	571.078	570.742	569.994	568.785
GROUND LEVEL (M) (AS PER SURVEY)	571.808	571.958	571.078	570.742	569.994	568.785
PROJECT CHAINAGES	PIER PA 2447.545	PIER PB 2477.545	2508.545	2539.545	2573.545	2618.545
EASTING	376068.6291	376071.6374	376154.4409	376185.2934	376228.3461	376269.4122
NORTHING	376097.3881	376097.5851	376164.3631	376164.3631	376227.9939	376269.4122
RAOD/FLYOVER VERTICAL ALIGNMENT	L=45.00 R=636.25 K=6.363					
ROAD/FLYOVER LEVEL	563.896	563.760	563.691	563.617	563.544	563.471
ELEVATION DIFFERENCE RAIL LVL. TO FLYOVER LVL.	19.304	19.440	19.309	19.583	19.656	19.729
ELEVATION DIFFERENCE FLYOVER TO GROUND LVL.	19.304	19.440	19.309	19.583	19.656	19.729



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT CHIEF RESIDENT ENG. ALIGNMENT EXPERT CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN) CHIEF SIGNALING CHIEF TRACTION PD/DY. PD	
PMRCL APPROVED	ACPM, R2 CPM, R2 DGM (VIADUCT & DESIGN) JGM (STATION DESIGN) GM (DESIGN) AGM (PLG) GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B08	20.08.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED FOR PIER PP8 TO P103	
B07	13.03.18	REVISED AS PER DOUBLE DECKER FLYOVER MAIL RECEIVED ON 12.03.18	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	VERTICAL ALIGNMENT MODIFIED FOR DOUBLE DECKER AS PER MAIL RECEIVED ON 08.01.18	
B04	21.12.17	REVISED ALIGNMENT FOR P8 TO P100	
B03	15.11.17	REVISED AS PER LETTER NO. GCPMR/PP/DO/ TRKSD/PL/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 11 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CHECKED & APPROVED BY GC
BEING GIVEN NO OBJECTION
ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 2447.545m TO 2970.037m**

SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 7-14)**

REVISION NO: **B08**

CONTRACTOR: **NCC Limited**
OFFICE NO. 03, 3RD FLOOR, 'PURUSHOTAM PLAZA', OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

PROOF CONSULTANT: **STUP Consultants Pvt.Ltd.**
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

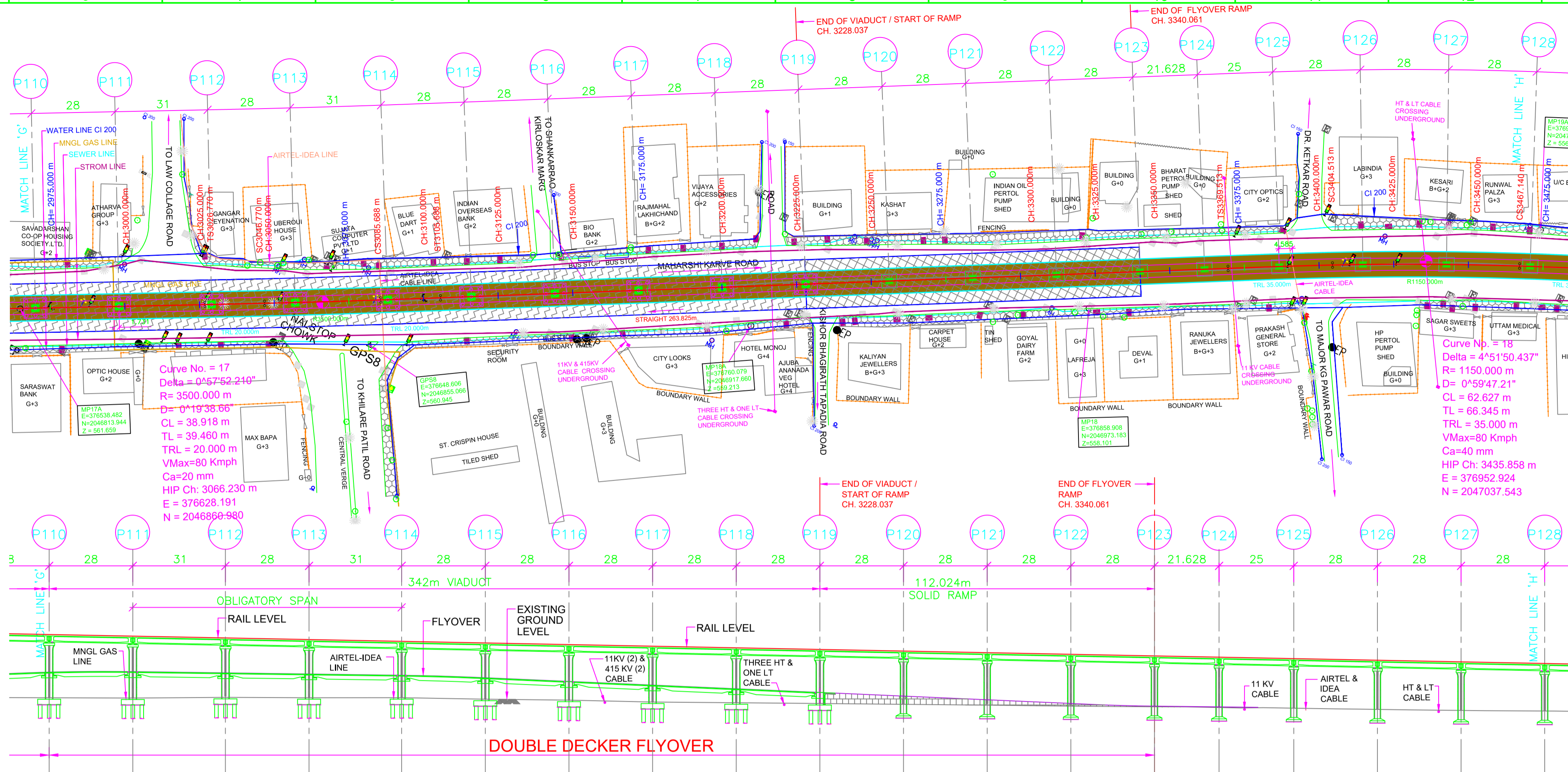
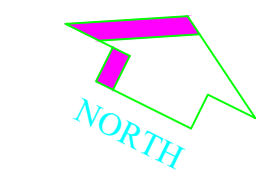
GENERAL CONSULTANT: **SYSTRA-AECOM-EGIS-RITES**
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

HOD: **HIMANSHU GOSWAMI GM/DESIGN**

DDC	CONTRACTOR	PROOF CONSULTANT	GENERAL CONSULTANT
SIGN: _____	SIGN: _____	SIGN: _____	SIGN: _____
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD
NAME: _____	NAME: _____	NAME: _____	NAME: _____
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY
DESIGNED BY	CHECKED BY	APPROVED BY	APPROVED BY

TO VANAZ

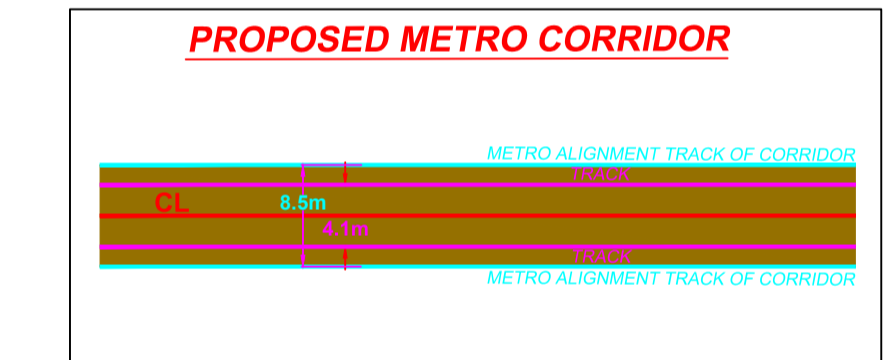
TO CIVIL COURT



- LEGEND:**
- P --- STANDARD PIER
 - CP --- CANTILEVER PIER
 - PP --- PORTAL PIER
 - CS --- CURVE TO SPIRAL
 - ST --- SPIRAL TO TANGENT
 - TS --- TANGENT TO SPIRAL
 - SC --- SPIRAL TO CURVE
 - SS --- SPIRAL TO SPIRAL
 - SL --- STRAIGHT LENGTH
 - ELE --- ELEVATION
 - E --- EASTING
 - N --- NORTHING
 - G --- GRADIENT
 - HIP --- HORIZONTAL INTERSECTION POINT
 - D --- DEFLECTION ANGLE
 - L --- GRADE LENGTH
 - TRL --- TRANSITION LENGTH
 - TL --- TANGENT LENGTH
 - R --- RADIUS
 - CA --- APPLIED CANT
 - CD --- CANT DEFICIENCY
 - PVI --- POINT OF VERTICAL CURVE
 - SRJ --- STOCK RAIL JOINT
 - CH --- CHAINAGE
 - DELTA --- DEFLECTION ANGLE
 - CL --- CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - XY --- X = PIER TYPE, Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT	L=702.259 m G=-1.932%																			
HORIZONTAL ALIGNMENT	SL342.250m* RL=20.000m CL=35.918m R=3500.000m SL263.825m* TRL=35.000m R=1150.000m CL=62.627m																			
ELEVATION DIFFERENCE (AS PER NIT)	-21.152	-20.700	-19.881	-19.457	-18.833	-18.813	-18.596	-18.675	-18.369	-18.070	-17.806	-17.554	-17.345	-17.008	-16.842	-16.578	-16.461	-16.265	-15.910	
ELEVATION DIFFERENCE (AS PER SURVEY)																				
RAIL LEVELS (M)	582.205	581.865	581.066	580.525	579.926	579.385	578.844	578.303	577.762	577.222	576.681	576.140	575.599	575.058	574.517	573.976	573.435	572.894	572.353	
GROUND LEVEL (M) (AS PER NIT)	561.053	560.965	561.195	561.068	561.091	560.572	560.258	559.628	559.393	559.143	558.675	558.586	558.254	558.050	557.798	557.579	557.155	556.810	556.625	
GROUND LEVEL (M) (AS PER SURVEY)																				
PROJECT CHAINAGES	2970.037	2970.037	3029.037	3029.037	3088.037	3147.037	3206.037	3265.037	3324.037	3383.037	3442.037	3501.037	3560.037	3619.037	3678.037	3737.037	3796.037	3855.037	3914.037	
EASTING																				
NORTHING																				
RAOD/FLYOVER VERTICAL ALIGNMENT	G=-1.341% L=90.00 L=40.00 R=716.88 K=7.169 L=25.00 R=620.84 K=8.208 G=-4.387% L=207.02 L=20.00 R=612.58 K=6.128																			
ROAD/FLYOVER LEVEL																				
ELEVATION DIFFERENCE RAIL LVL. TO FLYOVER LVL.																				
ELEVATION DIFFERENCE FLYOVER TO GROUND LVL.																				

GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL APPROVED	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B08	30.07.18	TITLE SHEET MODIFIED	
B07	13.03.18	REVISED AS PER DOUBLE DECKER FLYOVER MAIL RECEIVED ON 12.03.18	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	VERTICAL ALIGNMENT MODIFIED FOR DOUBLE DECKER AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCPMRP/PDO/ TRKSDPL/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 8-14) REV. B07 APPROVED ON DATE 08.05.18

DDC		CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:	NAME:	NAME:

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG,VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROOF CHECKED & APPROVED BY GC
BEING GIVEN NO OBJECTION
ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT - PLAN & ELEVATION FROM CH. 2970.037m TO 3470.665m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

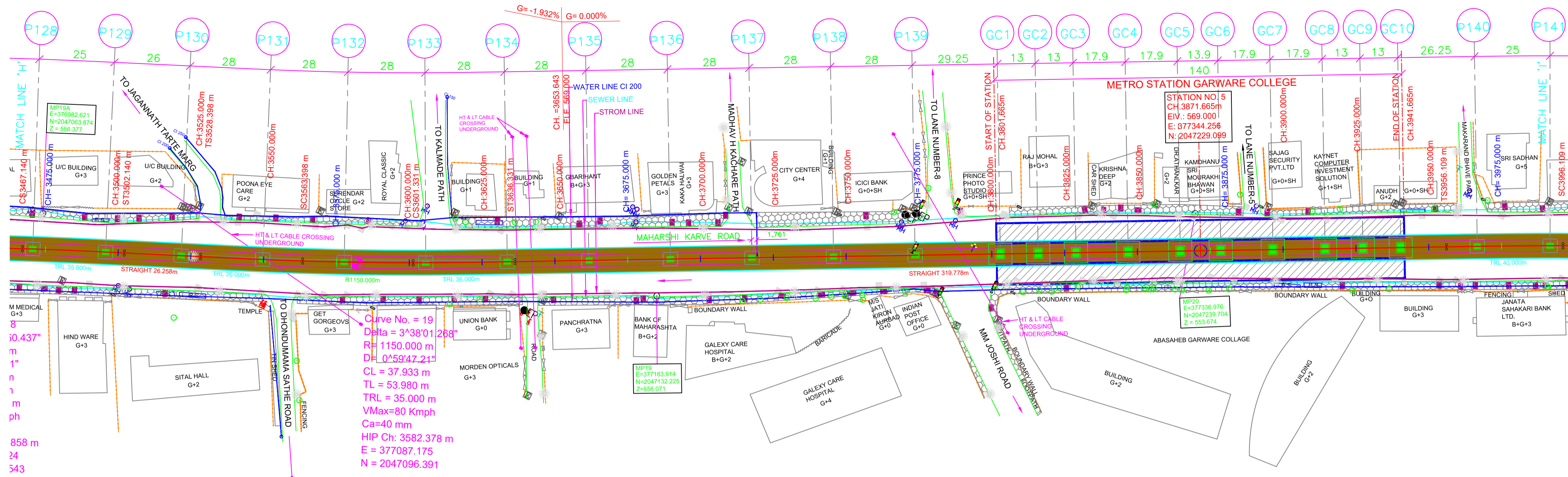
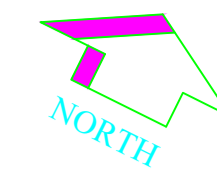
DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 8-14)**

REVISION NO: **B08**

REV NO	DATE	DESCRIPTION	SIGN
B08	30.07.18	TITLE SHEET MODIFIED	
B07	13.03.18	REVISED AS PER DOUBLE DECKER FLYOVER MAIL RECEIVED ON 12.03.18	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	VERTICAL ALIGNMENT MODIFIED FOR DOUBLE DECKER AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCPMRP/PDO/ TRKSDPL/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

TO VANAZ

TO CIVIL COURT



LEGEND:

- P --- STANDARD PIER
- CP --- CANTILEVER PIER
- PP --- PORTAL PIER
- CS --- CURVE TO SPIRAL
- ST --- SPIRAL TO TANGENT
- TS --- TANGENT TO SPIRAL
- SC --- SPIRAL TO CURVE
- SS --- SPIRAL TO SPIRAL
- SL --- STRAIGHT LENGTH
- ELE --- ELEVATION
- E --- EASTING
- N --- NORTHING
- G --- GRADIENT
- HIP --- HORIZONTAL INTERSECTION POINT
- D --- DEFLECTION ANGLE
- L --- GRADE LENGTH
- TRL --- TRANSITION LENGTH
- TL --- TANGENT LENGTH
- R --- RADIUS
- CA --- APPLIED CANT
- CD --- CANT DEFICIENCY
- PVI --- POINT OF VERTICAL CURVE
- SRJ --- STOCK RAIL JOINT
- CH --- CHAINAGE
- DELTA --- DEFLECTION ANGLE
- CL --- CURVE LENGTH
- ALIGNMENT CENTER LINE
- TRACK CENTER LINE
- METRO PORTION
- XY --- TRANSITION START & END
- X --- PIER TYPE
- Y --- PIER No.
- WATER LINE
- SEWER LINE
- MNGL (GAS) LINE
- STORM LINE
- LT/HT LINE
- TREE POLE
- LIGHT POLE
- HIGH FLOOD LEVEL (HFL)
- LOW FLOOD LEVEL (LFL)
- NON PIER ZONE PORTION
- FLYOVER VIADUCT PORTION
- FLYOVER RAMP PORTION
- WALKWAY (DECCAN TO SHINDE BRIDGE)

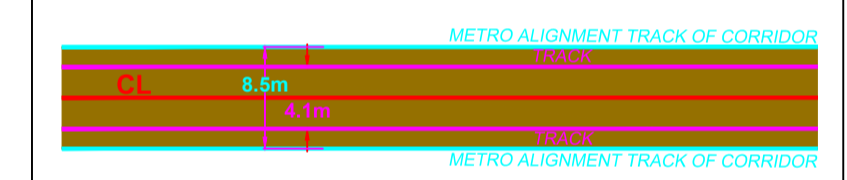
NOTES:

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- DIMENSIONS SHALL NOT BE CALLED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
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- THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRC. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
- RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
- ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.

GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01

PROPOSED METRO CORRIDOR



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT

	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL APPROVED	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

VERTICAL ALIGNMENT	L=702.259 m G=-1.932%		L=30.902 m R=1600.000		L=330.591 m G=0.000%	
HORIZONTAL ALIGNMENT	3487.140	3502.140	3528.397	3603.330	3638.193	3699.009
ELEVATION DIFFERENCE (AS PER NIT)	15.910	15.715	15.098	14.874	14.672	13.847
ELEVATION DIFFERENCE (AS PER SURVEY)	15.910	15.715	15.098	14.874	14.672	13.847
RAIL LEVELS (M)	572.635	572.052	571.549	571.009	570.468	569.927
GROUND LEVEL (M) (AS PER NIT)	556.625	556.337	556.451	556.134	555.796	555.080
GROUND LEVEL (M) (AS PER SURVEY)	556.625	556.337	556.451	556.134	555.796	555.080
PROJECT CHAINAGES	3470.665	3495.665	3521.665	3549.665	3577.665	3605.665
EASTING	2047051.4239	2047061.578	2047072.016	2047083.294	2047094.939	2047107.191
NORTHING	376984.9120	377007.757	377031.569	377057.198	377082.660	377107.837

REV NO	DATE	DESCRIPTION	SIGN
B07	30.07.18	TITLE SHEET MODIFIED	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PO/ TRK/SDPL/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED GRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 9-14) REV. B06* APPROVED ON DATE 11.05.18

DDC		CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE:	DATE:
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)
					APPROVED BY (TEAM LEADER)

CONSTRUCTORS
STRUTCON DESIGNS PVT. LTD.
SUASHISH TI PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CHECKED & APPROVED BY GC
BEING GIVEN NO OBJECTION
ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 3470.665m TO 3991.665m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

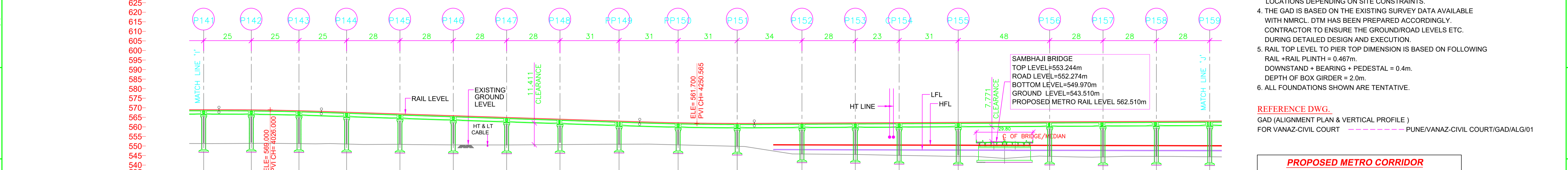
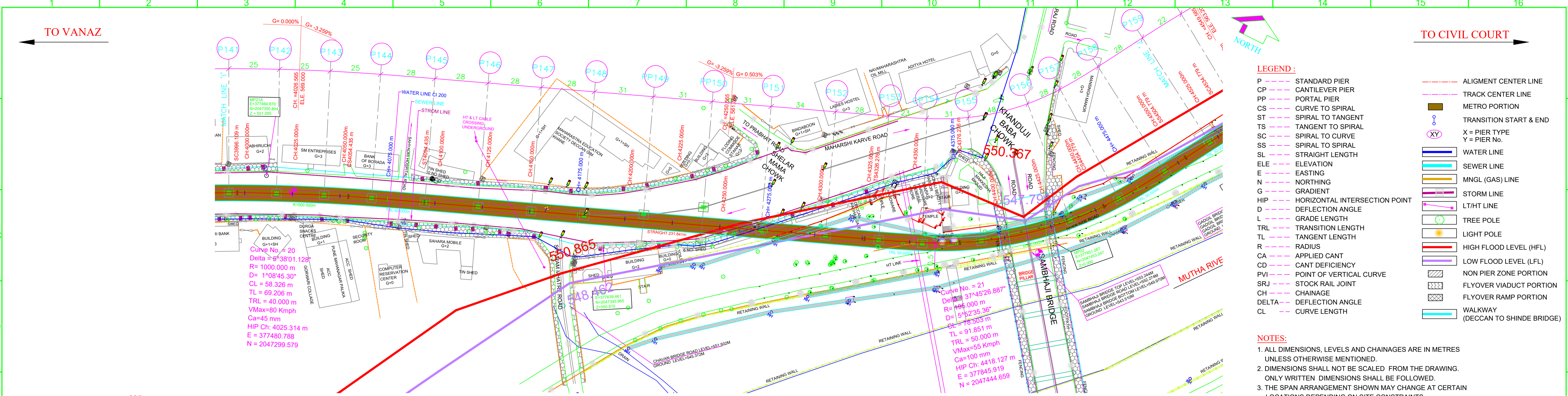
DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 9-14)**

REVISION NO: **B07**

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

HOD: **HIMANSHU GOSWAMI GM/DESIGN**

plot scale 1:1000

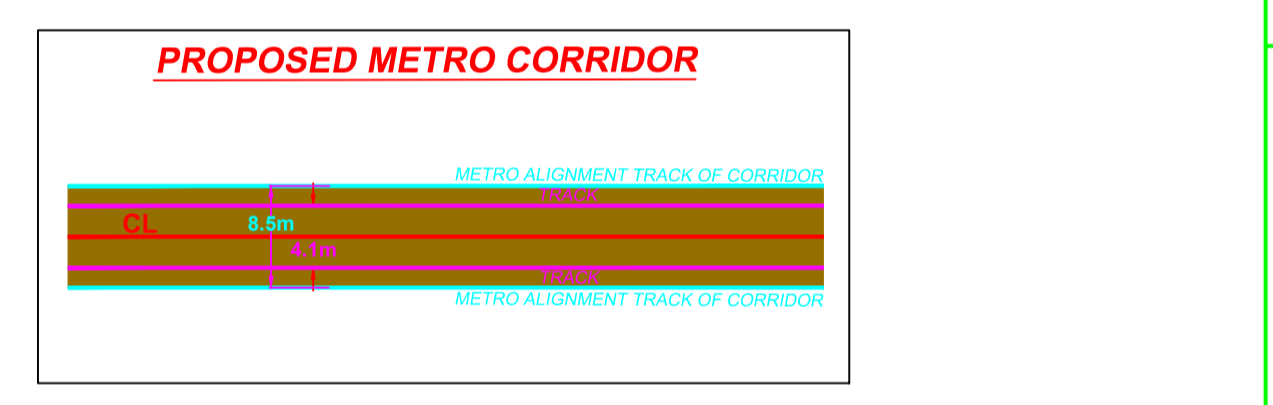


VERTICAL ALIGNMENT	L=53.744 m R=1650.000		L=167.061 m G=-3.259%		L=60.163 m R=1600.000		L=258.843 m G=0.503%	
HORIZONTAL ALIGNMENT	R=1000.000 CL=58.326m		SL231.841m		TRL=50.000m		R=195.000m CL=78.503m	
ELEVATION DIFFERENCE (AS PER NIT)	-17.717	-17.568	-17.241	-16.666	-15.897	-15.285	-14.414	-13.301
ELEVATION DIFFERENCE (AS PER SURVEY)	-17.717	-17.568	-17.241	-16.666	-15.897	-15.285	-14.414	-13.301
RAIL LEVELS (M)	569.000	568.913	568.666	567.693	566.781	565.668	564.556	563.443
GROUND LEVEL (M) (AS PER NIT)	551.283	551.355	551.225	551.027	550.884	550.583	550.542	550.929
GROUND LEVEL (M) (AS PER SURVEY)	551.283	551.355	551.225	551.027	550.884	550.583	550.542	550.929
PROJECT CHAINAGES	3991.665	4016.665	4041.665	4066.665	4094.665	4122.665	4150.665	4178.665
EASTING	377450.972	377473.500	377486.297	377519.328	377545.316	377571.338	377597.359	377623.380
NORTHING	2047283.977	2047294.816	2047305.089	2047314.796	2047325.218	2047335.557	2047345.897	2047356.236
HIGH FLOOD LEVEL (HFL)								

- LEGEND:**
- STANDARD PIER
 - CANTILEVER PIER
 - PORTAL PIER
 - CURVE TO SPIRAL
 - SPIRAL TO TANGENT
 - TANGENT TO SPIRAL
 - SPIRAL TO CURVE
 - SPIRAL TO SPIRAL
 - STRAIGHT LENGTH
 - ELEVATION
 - EASTING
 - NORTHING
 - GRADIENT
 - HORIZONTAL INTERSECTION POINT
 - DEFLECTION ANGLE
 - GRADE LENGTH
 - TRANSITION LENGTH
 - TANGENT LENGTH
 - RADIUS
 - APPLIED CANT
 - CANT DEFICIENCY
 - POINT OF VERTICAL CURVE
 - STOCK RAIL JOINT
 - CHAINAGE
 - DEFLECTION ANGLE
 - CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - X = PIER TYPE
Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL	CHIEF TRACTION	
	PD/DY. PD	
	APPROVED	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B08	30.07.18	TITLE SHEET MODIFIED	
B07	04.05.18	P154 & P155 SHIFTED BY 1.0m & 2.0m TOWARDS P153 AS PER SITE CONDITIONS	
B06	06.03.18	HFL IN TABLE ADDED	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	09.01.18	SITE VISIT ON 06.01.18 DUE TO UTILITY REVISED PIER LOCATION P154 & P156 AS MARKED	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/MR/PP/01/ TRKSDP/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 10-14) REV. 803 APPROVED ON DATE 28.11.17

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CONSULTANT

SYSTRA-AECOM-EGIS-RITES (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

CONTRACTOR

STRUTCON DESIGNS PVT. LTD. SUASHISH TI PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

PROOF CONSULTANT

STUP Consultants Pvt.Ltd. PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

CONTRACTOR

NCC Limited OFFICE NO. 03, 3RD FLOOR, 'PURUSHOTTAM PLAZA', OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

PROOF CONSULTANT

PROOF CHECKED & APPROVED BY GC
BEING GIVEN NO OBJECTION
ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

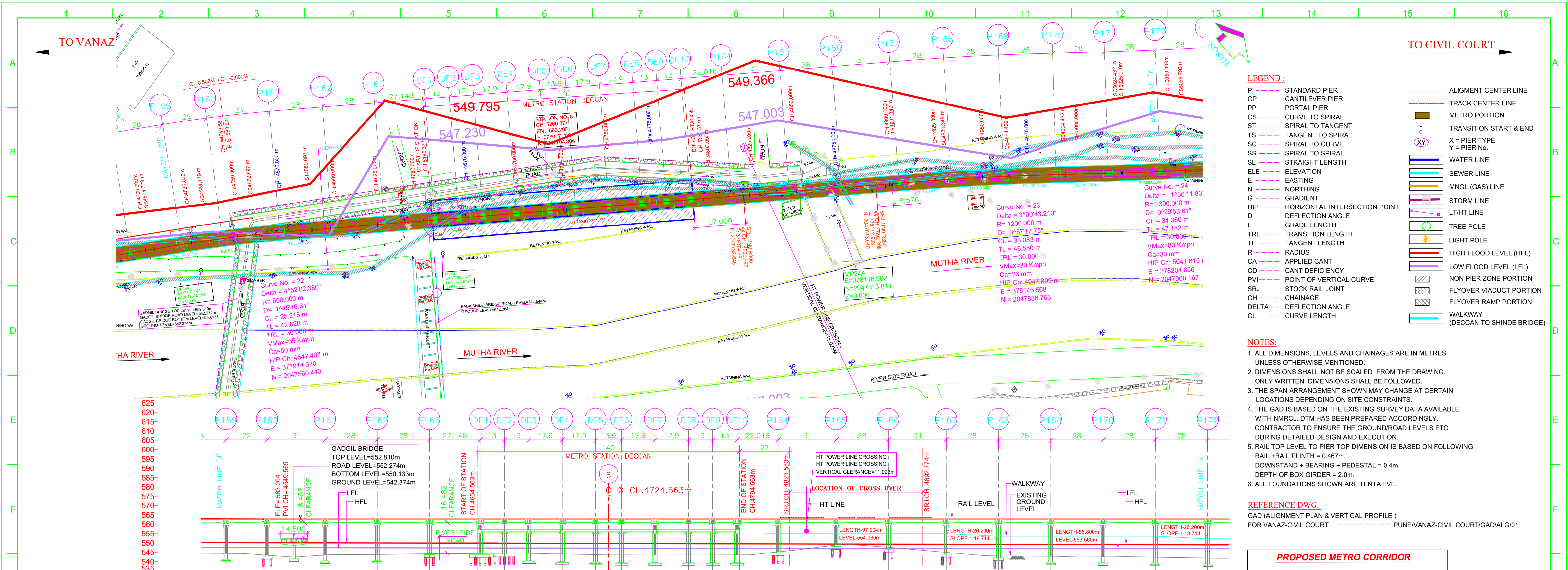
TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 3991.665m TO 4519.665m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 10-14)**

HOD: HIMANSHU GOSWAMI GM/DESIGN

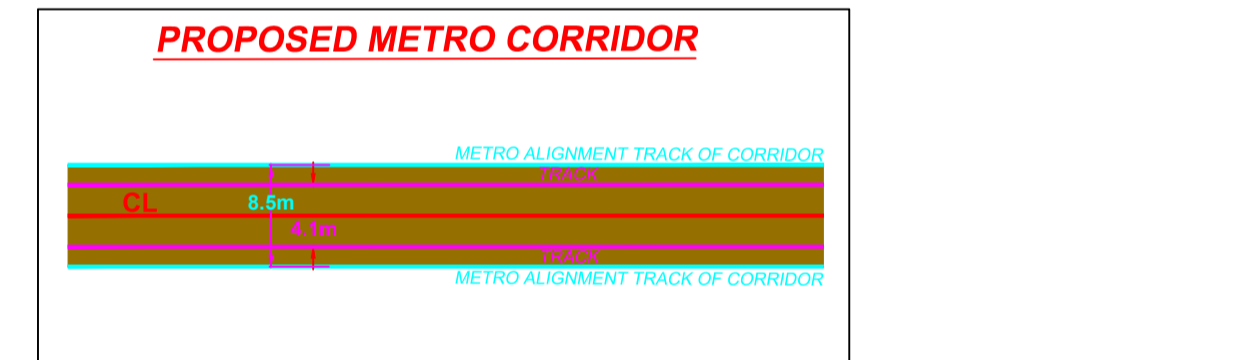
REVISION NO: **B08**



- LEGEND:**
- P --- STANDARD PIER
 - CP --- CANTILEVER PIER
 - PP --- PORTAL PIER
 - CS --- CURVE TO SPIRAL
 - ST --- SPIRAL TO TANGENT
 - TS --- TANGENT TO SPIRAL
 - SC --- SPIRAL TO CURVE
 - SS --- SPIRAL TO SPIRAL
 - SL --- STRAIGHT LENGTH
 - ELE --- ELEVATION
 - E --- EASTING
 - N --- NORTHING
 - G --- GRADIENT
 - HIP --- HORIZONTAL INTERSECTION POINT
 - D --- DEFLECTION ANGLE
 - L --- GRADE LENGTH
 - TRL --- TRANSITION LENGTH
 - TL --- TANGENT LENGTH
 - R --- RADIUS
 - CA --- APPLIED CANT
 - CD --- CANT DEFICIENCY
 - PVI --- POINT OF VERTICAL CURVE
 - SRJ --- STOCK RAIL JOINT
 - CH --- CHAINAGE
 - DELTA --- DEFLECTION ANGLE
 - CL --- CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - XY --- X = PIER TYPE, Y = PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE CALLED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRC. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT --- PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



VERTICAL ALIGNMENT	L=996.980 m G=-0.000%																													
HORIZONTAL ALIGNMENT	TRL=30.000m, R=650.000m, CL=25.218m, SL311.352m, 481.349, TRL=30.000m, 481.349, R=1200.000m, CL=33.083m, 484.432, TRL=30.000m, 502.432, R=2300.000m, CL=34.360m																													
ELEVATION DIFFERENCE (AS PER NIT)	18.688	18.974	19.771	19.771	20.825	19.697	19.697	19.411	19.411	19.008	18.844	18.712	18.768	19.123	19.473	19.609	19.650	19.715	19.712	19.683	19.613	18.020	14.361	15.551	18.278	20.206	20.366	20.722	20.852	21.312
ELEVATION DIFFERENCE (AS PER SURVEY)	18.974	19.771	19.771	20.825	19.697	19.697	19.411	19.411	19.008	18.844	18.712	18.768	19.123	19.473	19.609	19.650	19.715	19.712	19.683	19.613	18.020	14.361	15.551	18.278	20.206	20.366	20.722	20.852	21.312	
RAIL LEVELS (M)	563.054	563.164	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200
GROUND LEVEL (M) (AS PER NIT)	544.367	543.393	542.374	543.500	543.509	543.789	544.192	544.192	544.192	544.192	544.356	544.488	544.432	544.077	543.727	543.602	543.550	543.485	543.485	543.488	543.517	543.587	545.180	548.639	544.922	542.894	542.634	542.478	542.348	541.888
GROUND LEVEL (M) (AS PER SURVEY)	544.060	543.393	542.374	543.509	543.509	543.789	544.192	544.192	544.192	544.192	544.356	544.488	544.432	544.077	543.727	543.602	543.550	543.485	543.485	543.488	543.517	543.587	545.180	548.639	544.922	542.894	542.634	542.478	542.348	541.888
PROJECT CHAINAGES	4519.665	4541.665	4559.049	4572.665	4581.665	4591.665	4601.665	4611.665	4621.665	4631.665	4641.665	4651.665	4661.665	4671.665	4681.665	4691.665	4701.665	4711.665	4721.665	4731.665	4741.665	4751.665	4761.665	4771.665	4781.665	4791.665	4801.665	4811.665	4821.665	4831.665
EASTING	377990.233	377991.763	377993.293	377994.823	377996.353	377997.883	377999.413	378000.943	378002.473	378004.003	378005.533	378007.063	378008.593	378010.123	378011.653	378013.183	378014.713	378016.243	378017.773	378019.303	378020.833	378022.363	378023.893	378025.423	378026.953	378028.483	378030.013	378031.543	378033.073	378034.603
NORTHING	2047536.543	2047555.278	2047574.013	2047592.748	2047611.483	2047630.218	2047648.953	2047667.688	2047686.423	2047705.158	2047723.893	2047742.628	2047761.363	2047780.098	2047798.833	204801.568	204803.303	204805.038	204806.773	204808.508	204810.243	204811.978	204813.713	204815.448	204817.183	204818.918	204820.653	204822.388	204824.123	204825.858
HIGH FLOOD LEVEL (HFL)	550.129	550.079	550.049	550.009	549.943	549.879	549.817	549.787	549.759	549.714	549.671	549.639	549.595	549.553	549.522	549.491	549.438	549.399	549.247	549.192	549.138	549.081	549.025	548.969	548.913	548.857	548.801	548.745	548.689	548.633

GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
PMRCL APPROVED	CHIEF SIGNALING	
	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B08	30.07.18	TITLE SHEET MODIFIED	
B07	04.05.18	PORTAL PIER CONVERTED TO NORMAL PIER (AS PER SITE CONDITION)	
B06	06.03.18	HFL & WALKWAY ADDED	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	03.01.18	REVISED AS PER LETTER NO. GCP/MR/PPDO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/MR/PPDO/STR/SDP/2017/0241 DATED 02.11.17. ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R3	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R2	14.10.17	CROSS OVER REMOVED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 12.10.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 11-14) REV. 804* APPROVED ON DATE 28.11.17

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION*.

PROOF CONSULTANT

DDC		CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE:	DATE:
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---
DRAWN BY		DESIGN BY		CHECKED BY	
DESIGNED BY		APPROVED BY		REVIEWED BY (STRUCT. ENGG.)	
ACCEPTED BY		APPROVED BY (TEAM LEADER)		REVIEWED BY	

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
 OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: PUNE METRO RAIL PROJECT
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD.

LOCATION: REACH 2

TITLE: GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 4519.665m TO 5045.329m

SCALE: 1:1 **DATE:** 11.09.17 **STATUS:** GOOD FOR CONSTRUCTION

DRG NO: P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 11-14)

REVISION NO: B08

PROJECT: PUNE METRO RAIL PROJECT

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD.

LOCATION: REACH 2

TITLE: GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 4519.665m TO 5045.329m

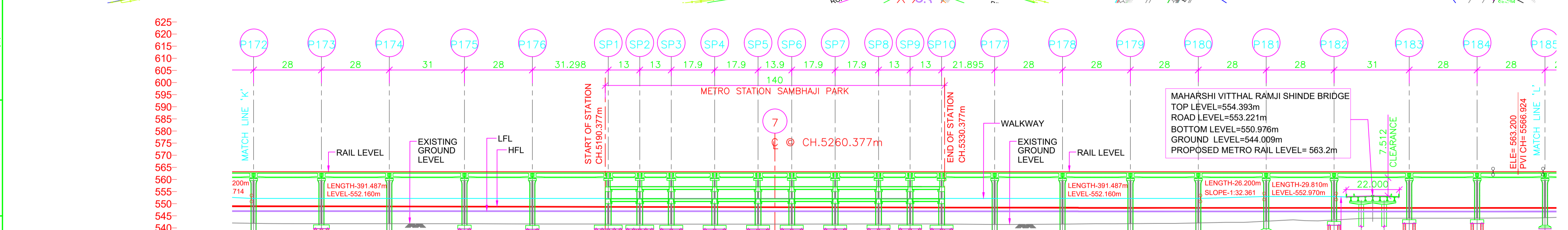
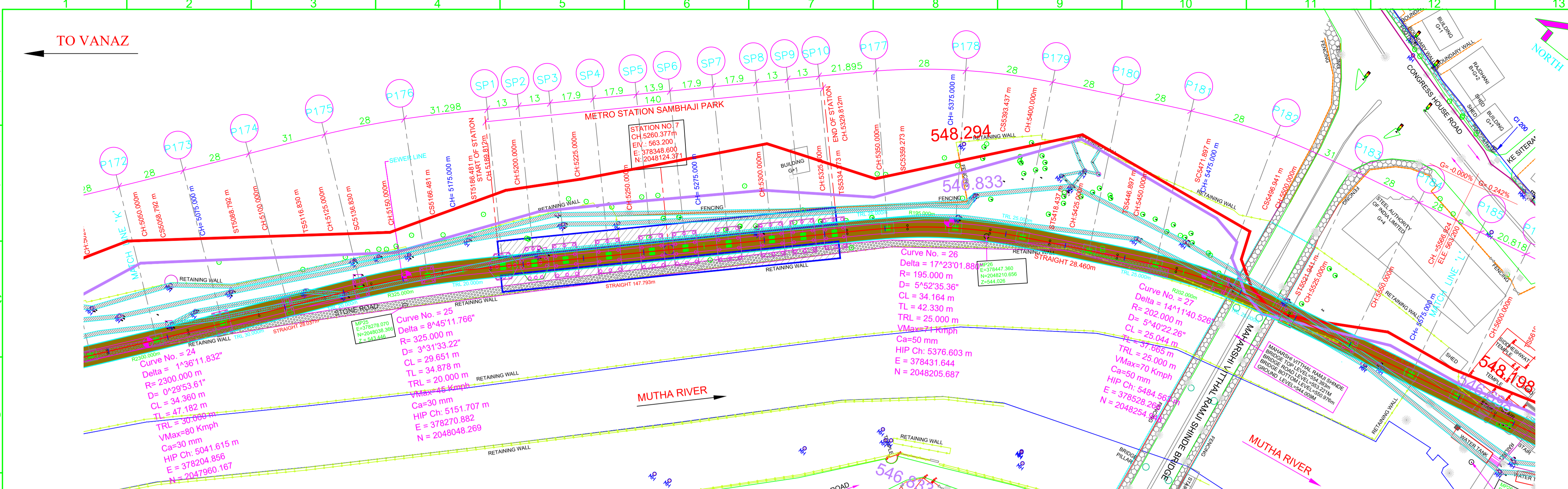
SCALE: 1:1 **DATE:** 11.09.17 **STATUS:** GOOD FOR CONSTRUCTION

DRG NO: P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 11-14)

REVISION NO: B08

HOD: HIMANSHU GOSWAMI GM/DESIGN

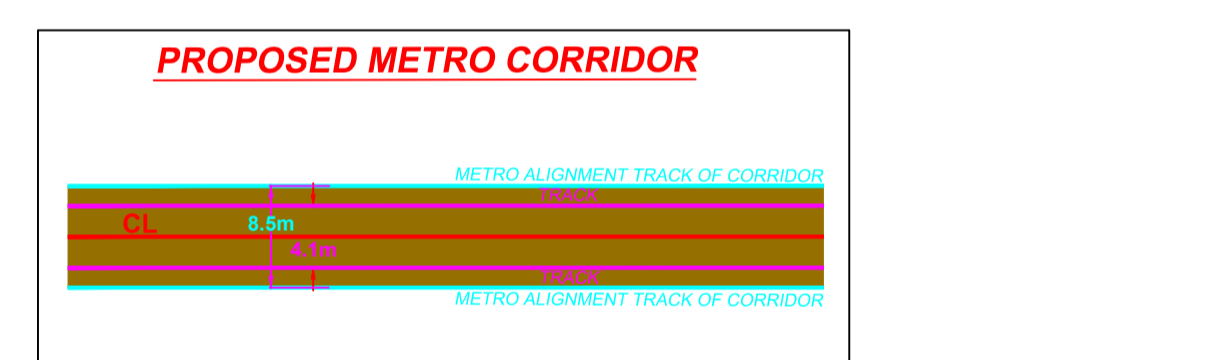
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- LEGEND:**
- P - STANDARD PIER
 - CP - CANTILEVER PIER
 - PP - PORTAL PIER
 - CS - CURVE TO SPIRAL
 - ST - SPIRAL TO TANGENT
 - TS - TANGENT TO SPIRAL
 - SC - SPIRAL TO CURVE
 - SS - SPIRAL TO SPIRAL
 - SL - STRAIGHT LENGTH
 - ELE - ELEVATION
 - E - EASTING
 - N - NORTHING
 - G - GRADIENT
 - HIP - HORIZONTAL INTERSECTION POINT
 - D - DEFLECTION ANGLE
 - L - GRADE LENGTH
 - TRL - TRANSITION LENGTH
 - TL - TANGENT LENGTH
 - R - RADIUS
 - CA - APPLIED CANT
 - CD - CANT DEFICIENCY
 - PVI - POINT OF VERTICAL CURVE
 - SRJ - STOCK RAIL JOINT
 - CH - CHAINAGE
 - DELTA - DEFLECTION ANGLE
 - CL - CURVE LENGTH
 - ALGMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - X = PIER TYPE
 - Y = PIER NO.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



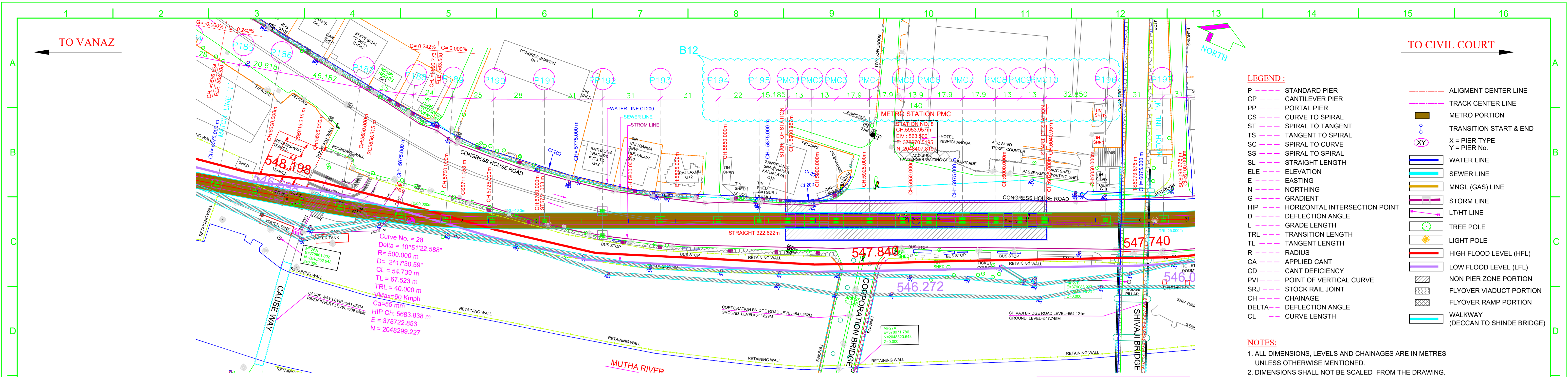
VERTICAL ALIGNMENT	L = 996.980 m G = -0.000%																										
HORIZONTAL ALIGNMENT	2300.000m +34.360m	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829	5118.829							
ELEVATION DIFFERENCE (AS PER NIT)	19.789	21.312	21.462	21.465	21.475	21.564	21.587	21.606	21.633	21.652	21.648	21.582	21.564	21.563	21.593	21.773	21.636	21.442	21.153	20.429	19.925	19.191	19.191	19.169	19.031		
ELEVATION DIFFERENCE (AS PER SURVEY)	19.789	21.462	21.465	21.475	21.564	21.587	21.606	21.633	21.652	21.648	21.582	21.564	21.563	21.593	21.773	21.636	21.442	21.153	20.429	19.925	19.191	19.191	19.169	19.031			
RAIL LEVELS (M)	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	563.200	
GROUND LEVEL (M) (AS PER NIT)	541.989	541.739	541.735	541.735	541.725	541.636	541.613	541.595	541.567	541.577	541.552	541.500	541.536	541.537	541.542	541.507	541.564	541.564	541.564	541.564	541.564	541.564	541.564	541.564	541.564	541.564	541.564
GROUND LEVEL (M) (AS PER SURVEY)	543.411	543.350	543.403	543.403	543.403	541.636	543.637	543.700	544.342	544.342	544.248	544.341	544.237	544.142	544.303	544.202	544.202	544.202	544.202	544.202	544.202	544.202	544.202	544.202	544.202	544.202	544.202
PROJECT CHAINAGES	5045.329	5075.329	5101.329	5135.329	5169.329	5191.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627	5204.627
EASTING	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	
NORTHING	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259	2047963.259
HIGH FLOOD LEVEL (HFL)	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869	548.869

REV NO	DATE	DESCRIPTION	SIGN
B08	30.07.18	TITLE SHEET MODIFIED	
B07	04.05.18	PORTAL PIER CONVERTED TO NORMAL PIER (AS PER SITE CONDITION)	
B06	06.03.18	HFL & WALKWAY ADDED	
B05	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B04	03.01.18	REVISED AS PER LETTER NO. GCP/PMR/PPDO/STR/SRDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/PMR/PPDO/STR/SRDP/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 12-14) REV. 003 APPROVED ON DATE 28.11.17				THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.			
CONTRACTOR				PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: ---	DATE: ---	DATE: ---	DATE: ---
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---
DRAWN BY DESIGN BY CHECKED BY APPROVED BY				REVIEWED BY (STRUCT. ENGG.) APPROVED BY (TEAM LEADER)			
ACCEPTED BY				REVIEWED BY			
CONSULTANTS STRUCTCON DESIGNS PVT. LTD. SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066				NCC Limited OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045			
STUP Consultants Pvt.Ltd. PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705				SYSTRA-AECOM-EGIS-RITES (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)			

PROJECT:	PUNE METRO RAIL PROJECT THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA
CLIENT:	MAHARASHTRA METRO RAIL CORPORATION LTD.
LOCATION:	REACH 2
TITLE:	GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 5045.329m TO 5578.022m
SCALE:	1:1
DATE:	11.09.17
STATUS:	GOOD FOR CONSTRUCTION
DRG NO:	P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 12-14)
HOD:	HIMANSHU GOSWAMI GM/DESIGN
REVISION NO:	B08

GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
PMRCL APPROVED	CHIEF SIGNALING	
	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

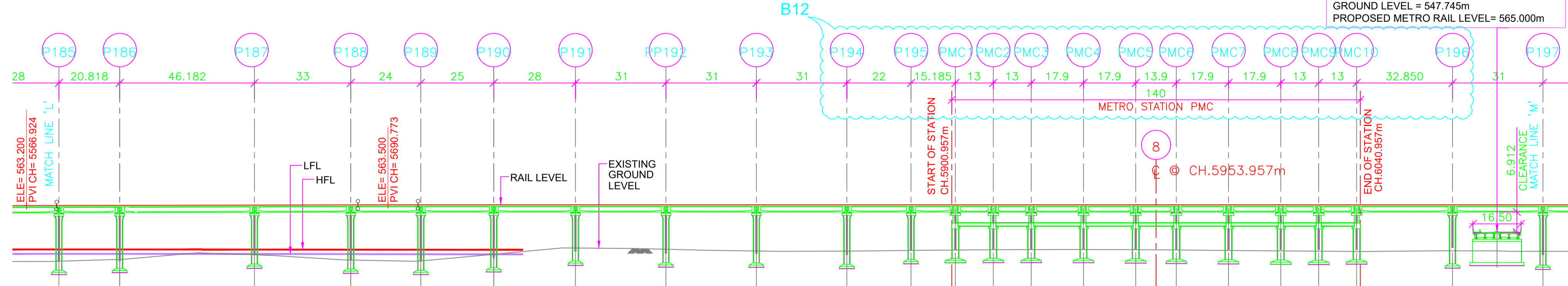


- LEGEND:**
- P - STANDARD PIER
 - CP - CANTILEVER PIER
 - PP - PORTAL PIER
 - CS - CURVE TO SPIRAL
 - ST - SPIRAL TO TANGENT
 - TS - TANGENT TO SPIRAL
 - SC - SPIRAL TO CURVE
 - SS - SPIRAL TO SPIRAL
 - SL - STRAIGHT LENGTH
 - ELE - ELEVATION
 - E - EASTING
 - N - NORTHING
 - G - GRADIENT
 - HIP - HORIZONTAL INTERSECTION POINT
 - D - DEFLECTION ANGLE
 - L - GRADE LENGTH
 - TRL - TRANSITION LENGTH
 - TL - TANGENT LENGTH
 - R - RADIUS
 - CA - APPLIED CANT
 - CD - CANT DEFICIENCY
 - PVI - POINT OF VERTICAL CURVE
 - SRJ - STOCK RAIL JOINT
 - CH - CHAINAGE
 - DELTA - DEFLECTION ANGLE
 - CL - CURVE LENGTH
 - ALIGNMENT CENTER LINE
 - TRACK CENTER LINE
 - METRO PORTION
 - TRANSITION START & END
 - X - PIER TYPE
 - Y - PIER No.
 - WATER LINE
 - SEWER LINE
 - MNGL (GAS) LINE
 - STORM LINE
 - LT/HT LINE
 - TREE POLE
 - LIGHT POLE
 - HIGH FLOOD LEVEL (HFL)
 - LOW FLOOD LEVEL (LFL)
 - NON PIER ZONE PORTION
 - FLYOVER VIADUCT PORTION
 - FLYOVER RAMP PORTION
 - WALKWAY (DECCAN TO SHINDE BRIDGE)

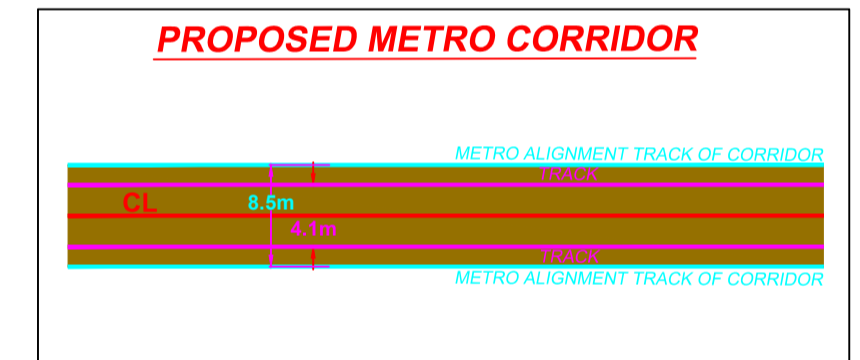
- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01

625
620
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VERTICAL ALIGNMENT	20.623 m 8500.000		L=103.243 m G=0.242%		5880.478 L=20.590 m R=8500.000		5701.008		L=1288.041 m G=0.000%		6073.675	
HORIZONTAL ALIGNMENT	L=94.373m		516.314 TRL=40.000m		506.314 R=500.000m CL=54.739m		5711.053 TRL=40.000m		5151.053		SL=322.622m	
ELEVATION DIFFERENCE (AS PER NIT)	19.031	19.453	17.001	18.864	19.204	16.935	14.788	15.214	15.816	15.837	15.612	15.479
ELEVATION DIFFERENCE (AS PER SURVEY)												
RAIL LEVELS (M)	563.227	563.277	563.389	563.469	563.500	563.500	563.500	563.500	563.500	563.500	563.500	563.500
GROUND LEVEL (M) (AS PER NIT)	544.196	544.824	546.388	544.605	544.296	544.452	548.712	548.286	547.684	547.663	548.188	548.148
GROUND LEVEL (M) (AS PER SURVEY)												
PROJECT CHAINAGES	378619.076	378639.9747	378664.8607	378716.720	378739.4134	378762.639	378788.328	378816.719	378845.110	378873.501	378907.5660	378931.3677
EASTING	2048275.749	2048290.3679	2048290.8008	2048290.751	2048307.5506	2048310.798	2048327.936	2048340.384	2048352.832	2048365.281	2048374.1149	2048380.2125
NORTHING	548.217	548.209	548.178	548.141	548.118	548.086	548.037	548.032	548.032	548.032	548.032	548.032
HIGH FLOOD LEVEL (HFL)	548.217	548.209	548.178	548.141	548.118	548.086	548.037	548.032	548.032	548.032	548.032	548.032



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL APPROVED	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B12	13.08.18	AS PER SITE CONDITION STATION PMC SHIFTED BY 17.0m TOWARDS VANAZ SIDE	
B11	30.07.18	TITLE SHEET MODIFIED	
B10	27.06.18	REVISED AS PER SITE CONDITION	
B09	04.05.18	AS PER SITE CONDITION PIER P189 SHIFTED BY 3.0m TOWARDS P190 & P186 SHIFTED BY 1.0m TOWARDS P185	
B08	06.03.18	HFL IN TABLE ADDED	
B07	12.02.18	SPAN ARRANGEMENT MODIFIED PMC10 TO P189	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER LETTER NO. GCP/MPR/PPD/ TRK/SDPL/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/MPR/PPD/ TRK/SDPL/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. REV. APPROVED ON DATE

DDC				CONTRACTOR				PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18	DATE: 13.08.18
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---	NAME: ---
DRAWN BY				DESIGN BY				CHECKED BY			
APPROVED BY				ACCEPTED BY				REVIEWED BY (STRUCT. ENGG.)			
APPROVED BY				APPROVED BY (TEAM LEADER)				REVIEWED BY			
APPROVED BY				APPROVED BY				APPROVED BY			

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH TI PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
 OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER-BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

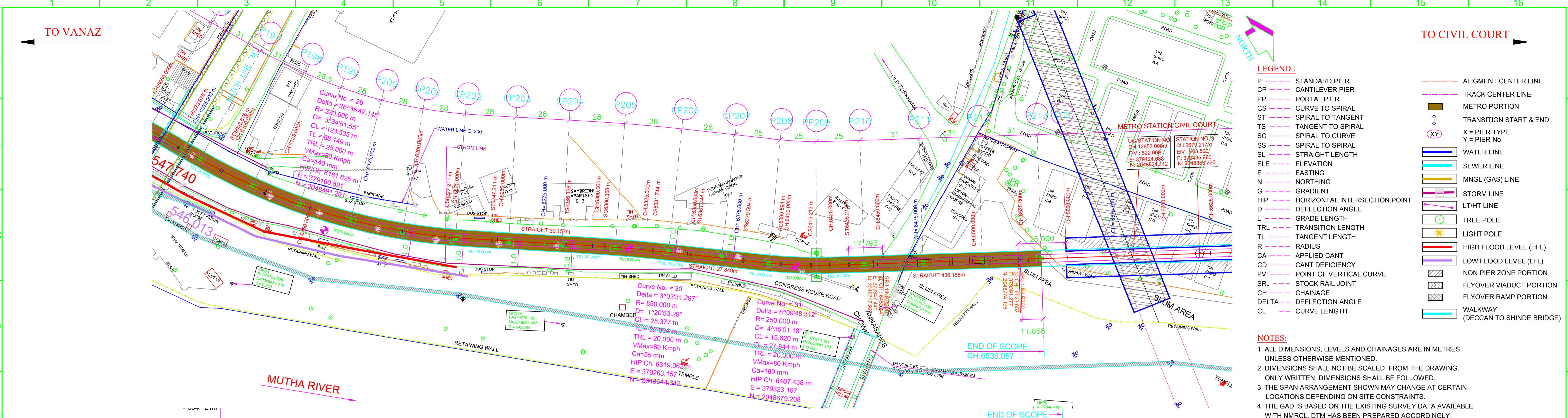
TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 5578.022m TO 6086.557m**

SCALE: 1:1 DATE: 11.09.17 STATUS: FOR CRD APPROVAL

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 13-14)**

HOD: **HIMANSHU GOSWAMI GM/DESIGN**

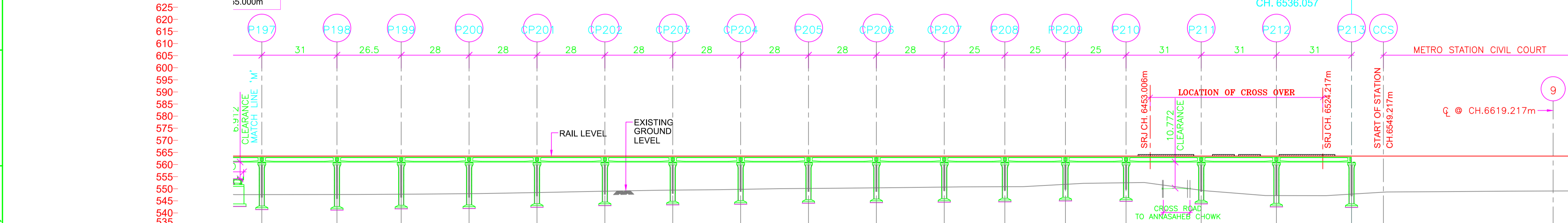
REVISION NO: **B12**



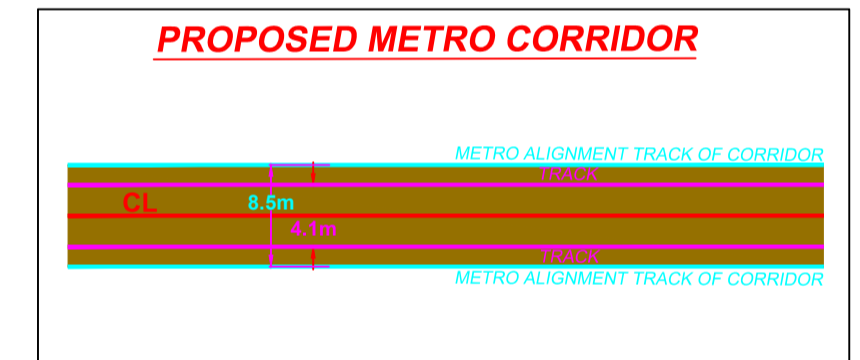
- LEGEND:**
- P - STANDARD PIER
 - CP - CANTILEVER PIER
 - PP - PORTAL PIER
 - CS - CURVE TO SPIRAL
 - ST - SPIRAL TO TANGENT
 - TS - TANGENT TO SPIRAL
 - SS - SPIRAL TO CURVE
 - SS - SPIRAL TO SPIRAL
 - SL - STRAIGHT LENGTH
 - ELE - ELEVATION
 - E - EASTING
 - N - NORTHING
 - G - GRADIENT
 - HIP - HORIZONTAL INTERSECTION POINT
 - D - DEFLECTION ANGLE
 - L - GRADE LENGTH
 - TRL - TRANSITION LENGTH
 - TL - TANGENT LENGTH
 - R - RADIUS
 - CA - APPLIED CANT
 - CD - CANT DEFICIENCY
 - PVI - POINT OF VERTICAL CURVE
 - SRJ - STOCK RAIL JOINT
 - CH - CHAINAGE
 - DELTA - DEFLECTION ANGLE
 - CL - CURVE LENGTH
 - ALG - ALIGNMENT CENTER LINE
 - TRC - TRACK CENTER LINE
 - MP - METRO PORTION
 - XY - TRANSITION START & END
 - X - PIER TYPE
 - Y - PIER No.
 - WL - WATER LINE
 - SL - SEWER LINE
 - MGL - MNGL (GAS) LINE
 - STL - STORM LINE
 - LHT - LT/HT LINE
 - TP - TREE POLE
 - LP - LIGHT POLE
 - HFL - HIGH FLOOD LEVEL (HFL)
 - LFL - LOW FLOOD LEVEL (LFL)
 - NPZ - NON PIER ZONE PORTION
 - FV - FLYOVER VIADUCT PORTION
 - FRR - FLYOVER RAMP PORTION
 - W - WALKWAY (DECCAN TO SHINDE BRIDGE)

- NOTES:**
- ALL DIMENSIONS, LEVELS AND CHAINAGES ARE IN METRES UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE SPAN ARRANGEMENT SHOWN MAY CHANGE AT CERTAIN LOCATIONS DEPENDING ON SITE CONSTRAINTS.
 - THE GAD IS BASED ON THE EXISTING SURVEY DATA AVAILABLE WITH NMRL. DTM HAS BEEN PREPARED ACCORDINGLY. CONTRACTOR TO ENSURE THE GROUND/ROAD LEVELS ETC. DURING DETAILED DESIGN AND EXECUTION.
 - RAIL TOP LEVEL TO PIER TOP DIMENSION IS BASED ON FOLLOWING:
RAIL + RAIL PLINTH = 0.467m.
DOWNSTAND + BEARING + PEDESTAL = 0.4m.
DEPTH OF BOX GIRDER = 2.0m.
 - ALL FOUNDATIONS SHOWN ARE TENTATIVE.

REFERENCE DWG.
GAD (ALIGNMENT PLAN & VERTICAL PROFILE) FOR VANAZ-CIVIL COURT - PUNE/VANAZ-CIVIL COURT/GAD/ALG/01



STATIONING	RAIL LEVEL (M)	EXISTING GROUND LEVEL (M)	ELEVATION DIFFERENCE (AS PER SURVEY)	PROJECT CHAINAGES	EASTING	NORTHING
625	563.500	547.577	15.923	6086.557	2048461.107	-379091.941
620	563.500	547.614	15.886	6117.557	2048474.977	-379119.653
615	563.500	547.735	15.765	6144.057	2048488.885	-379142.201
610	563.500	547.957	15.543	6172.057	2048505.553	-379164.689
605	563.500	548.424	15.076	6200.057	2048524.122	-379185.634
600	563.500	548.976	14.524	6228.057	2048543.404	-379204.879
595	563.500	549.437	14.063	6256.057	2048563.791	-379225.633
590	563.500	549.751	13.749	6284.057	2048584.448	-379247.079
585	563.500	550.124	13.376	6312.057	2048605.248	-379268.633
580	563.500	550.375	13.125	6340.057	2048626.749	-379290.439
575	563.500	550.687	12.813	6368.057	2048648.425	-379312.702
570	563.500	550.827	12.673	6396.057	2048670.398	-379335.727
565	563.500	551.824	11.676	6424.057	2048692.073	-379358.447
560	563.500	552.468	11.032	6452.057	2048713.133	-379381.133
555	563.500	552.468	11.032	6480.057	2048734.085	-379403.946
550	563.500	552.468	11.032	6508.057	2048755.105	-379426.702
545	563.500	552.468	11.032	6536.057	2048776.125	-379449.458
540	563.500	552.468	11.032	6564.057	2048797.145	-379472.210
535	563.500	552.468	11.032	6592.057	2048818.165	-379494.962



GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT		
	FOR GAD APPROVAL	SIGNATURE
TOPOGRAPHIC SURVEY IS VERIFIED AND FOUND CORRECT. ALIGNMENT SATISFIED CODAL REQUIREMENTS. PIER ARRANGEMENT IS SATISFACTORY. THE GAD IS RECOMMENDED FOR APPROVAL	SURVEY EXPERT	
	CHIEF RESIDENT ENG.	
	ALIGNMENT EXPERT	
	CHIEF STRUCTURAL EXPERT (VIADUCT & DESIGN)	
	CHIEF SIGNALING	
PMRCL APPROVED	CHIEF TRACTION	
	PD/DY. PD	
	ACPM, R2	
	CPM, R2	
	DGM (VIADUCT & DESIGN)	
	JGM (STATION DESIGN)	
	GM (DESIGN)	
	AGM (PLG)	
	GM (PLG)	

REV NO	DATE	DESCRIPTION	SIGN
B09	30.07.18	TITLE SHEET MODIFIED	
B08	06.03.18	HFL IN TABLE ADDED	
B07	12.02.18	SPAN ARRANGEMENT MODIFIED PMC10 TO P199	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER LETTER NO. GCP/MPR/PDO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
B03	15.11.17	REVISED AS PER LETTER NO. GCP/MPR/PDO/STR/SDP/2017/0241 DATED 02.11.17, ALIGNMENT DRAWING MAIL RECEIVED ON 07.11.17 & UTILITIES DRAWING RECEIVED ON 15.11.17	
R2	23.10.17	LEGEND & NOTES ADDED AS PER DRAWING PUNE/VANAZ-CIVIL COURT/GAD/ALG/01R2 (SHEET 1 TO 13)	
R1	09.10.17	REVISED AS PER REVISED ALIGNMENT DRAWING RECEIVED ON 29.09.17 FROM PMRCL	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. THIS GFC IS IN ACCORDANCE WITH APPROVED CRD DWG NO. P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 14-14) REV. 008* APPROVED ON DATE 08.05.18

DDC		CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE: 20.08.18	DATE:	DATE:
NAME: SHW	NAME: RVS	NAME: RPG	NAME: VLD	NAME: ---	NAME: ---
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

CONSULTANTS
STRUCTCON DESIGNS PVT. LTD.
 SUASHISH IT PARK, A104, 1ST FLOOR, DATTAPADA ROAD, OPP. TATA STEEL, BORIVALI (EAST), MUMBAI-400066

NCC Limited
 OFFICE NO. 03, 3RD FLOOR, "PURUSHOTTAM PLAZA", OPP. BANER TELEPHONE EXCHANGE, BANER/BALEWADI ROAD, BANER, PUNE - 411045

STUP Consultants Pvt.Ltd.
 PLOT NO. 22-A, SECTOR 19C, PALM BEACH MARG, VASHI, NAVI MUMBAI-400705

SYSTRA-AECOM-EGIS-RITES
 (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

PROOF CHECKED & APPROVED BY GC
 BEING GIVEN NO OBJECTION
 ISSUED AS GOOD FOR CONSTRUCTION.

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

PROJECT: **PUNE METRO RAIL PROJECT**
 THE ORION BUILDING, 1ST FLOOR, OPPOSITE DON BOSCO CENTER, NEAR SAINT MIRA'S GIRLS COLLEGE, KOREGAON PARK, PUNE - 411001, MH, INDIA

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: REACH 2

TITLE: **GENERAL ARRANGEMENT : PLAN & ELEVATION FROM CH. 6086.557m TO 6536.057m**

SCALE: 1:1 DATE: 11.09.17 STATUS: GOOD FOR CONSTRUCTION

DRG NO: **P2B01-NCC-CV-BAS-PP2_DGA-0011 (SHEET 14-14)**

REVISION NO: **B09**

REV NO	DATE	DESCRIPTION	SIGN
B09	30.07.18	TITLE SHEET MODIFIED	
B08	06.03.18	HFL IN TABLE ADDED	
B07	12.02.18	SPAN ARRANGEMENT MODIFIED PMC10 TO P199	
B06	25.01.18	SURVEY GROUND LEVEL TABLE ADDED	
B05	15.01.18	HORIZONTAL & VERTICAL ALIGNMENT MODIFIED AS PER MAIL RECEIVED ON 08.01.18	
B04	03.01.18	REVISED AS PER LETTER NO. GCP/MPR/PDO/STR/SDP/2017/0325 DATED 28-NOV-2017 & UTILITIES DRAWING RECEIVED ON 18.11.17	
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