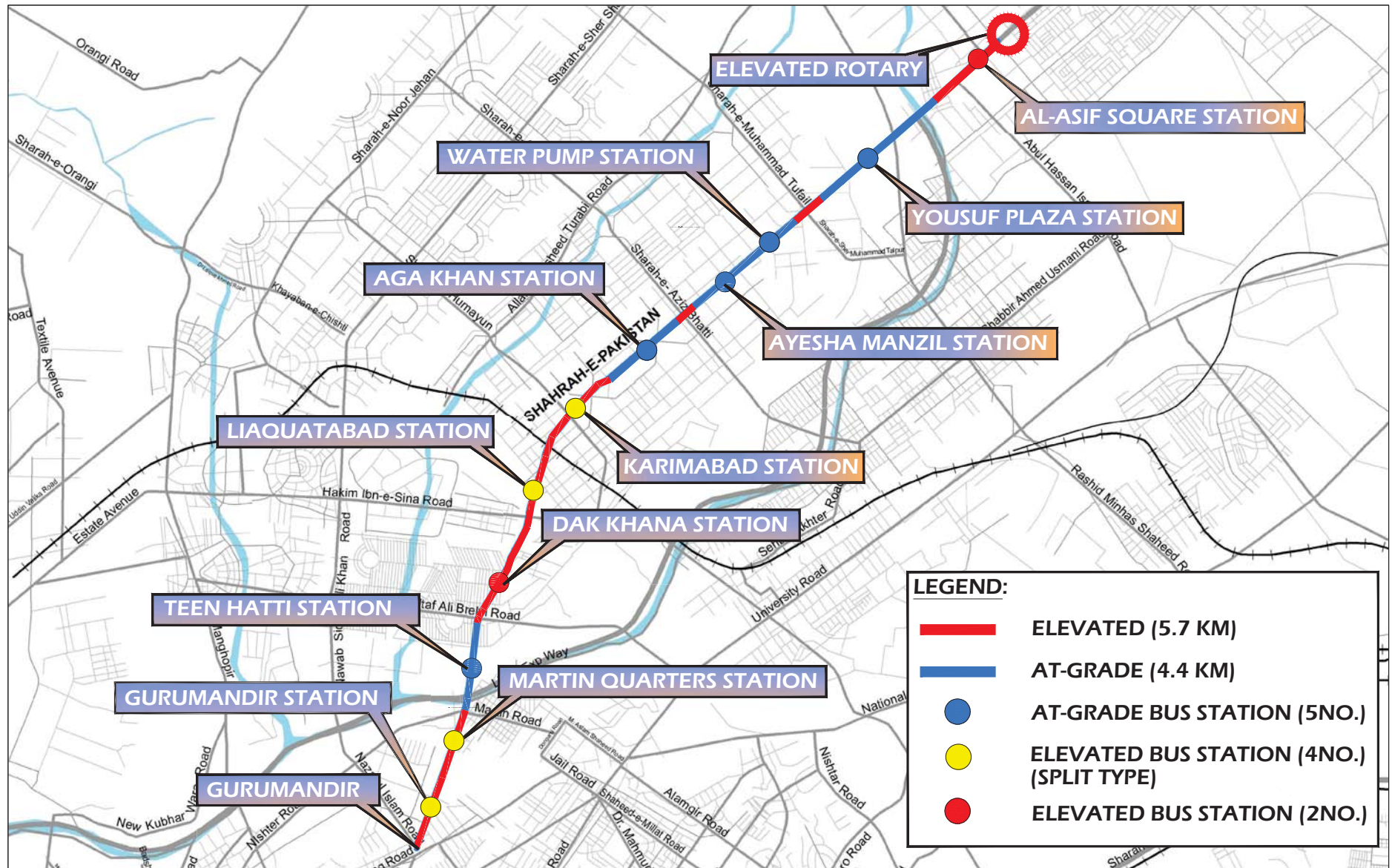


REQUEST FOR PROPOSALS (RFP)
BUS RAPID TRANSIT SYSTEM (BRTS) BLUE LINE PROJECT
(INFRASTRUCTURE DEVELOPMENT)
VOLUME III: PRELIMINARY DESIGN DRAWINGS




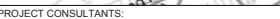
Sindh Mass Transit Authority
Transport & Mass Transit Department
Government of Sindh

February 2018



LEGEND:

- ELEVATED (5.7 KM)
- AT-GRADE (4.4 KM)
- AT-GRADE BUS STATION (5NO.)
- ELEVATED BUS STATION (4NO.) (SPLIT TYPE)
- ELEVATED BUS STATION (2NO.)


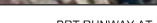
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BRTS BLUE LINE KARACHI

ROAD LAYOUT

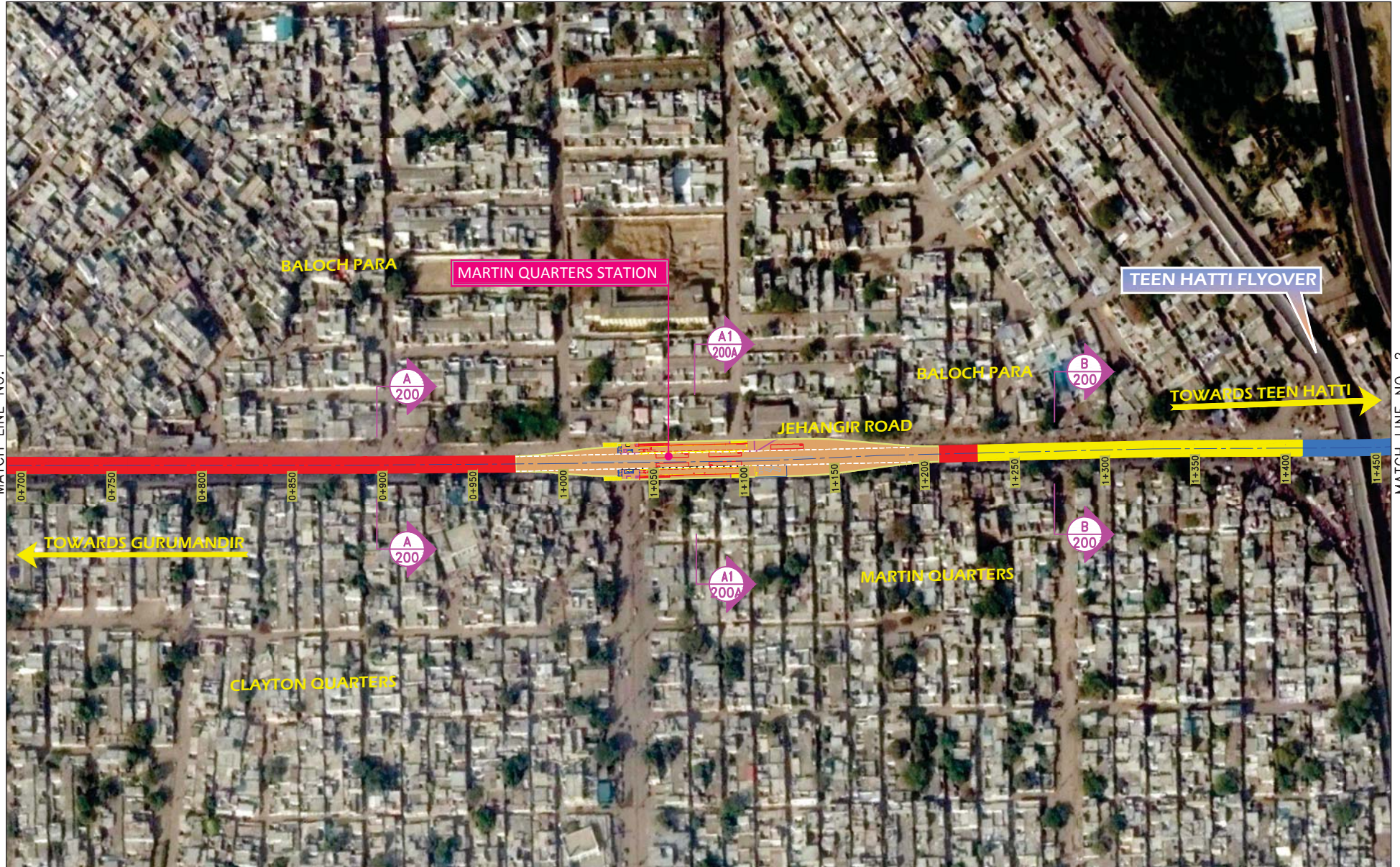


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Drawing File Path & Name
User and Plot Date

MATCH LINE NO. 1



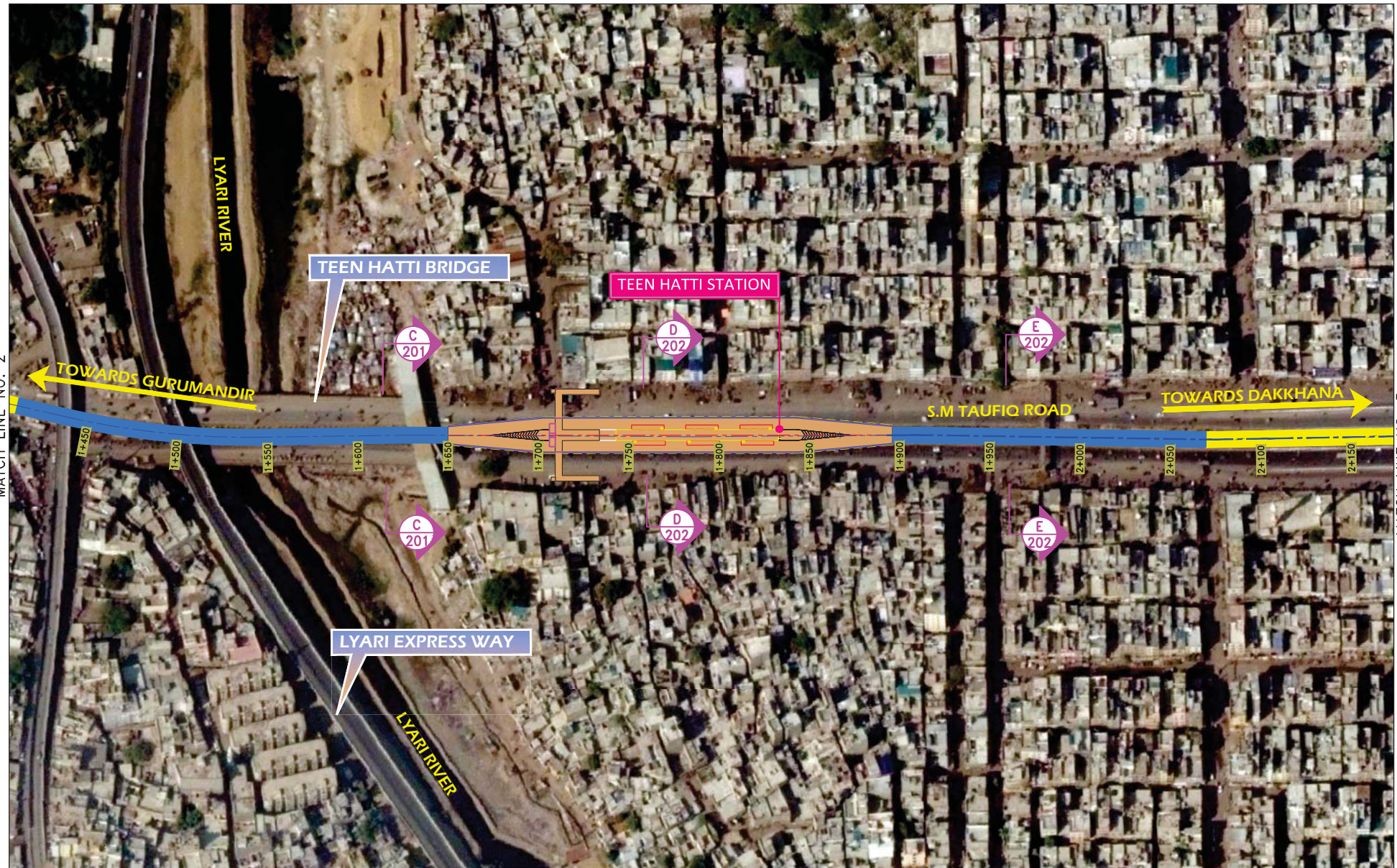
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MATCH LINE NO. 2

MATCH LINE NO. 3



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




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

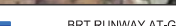
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MATCH LINE NO. 5



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


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MATCH LINE NO. 6



MATCH LINE NO. 7

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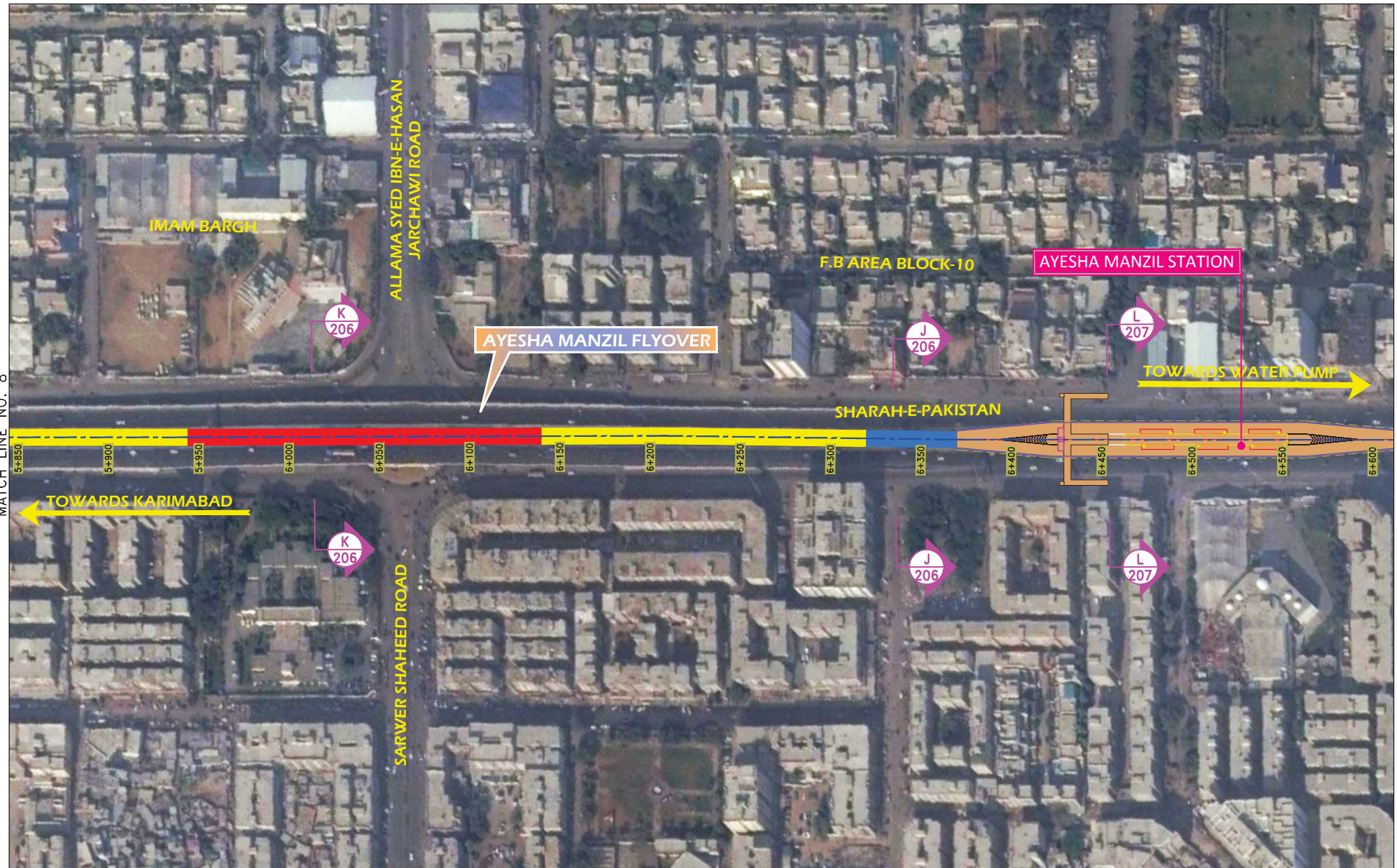
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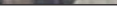
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MATCH LINE NO. 8

MATCH LINE NO. 9






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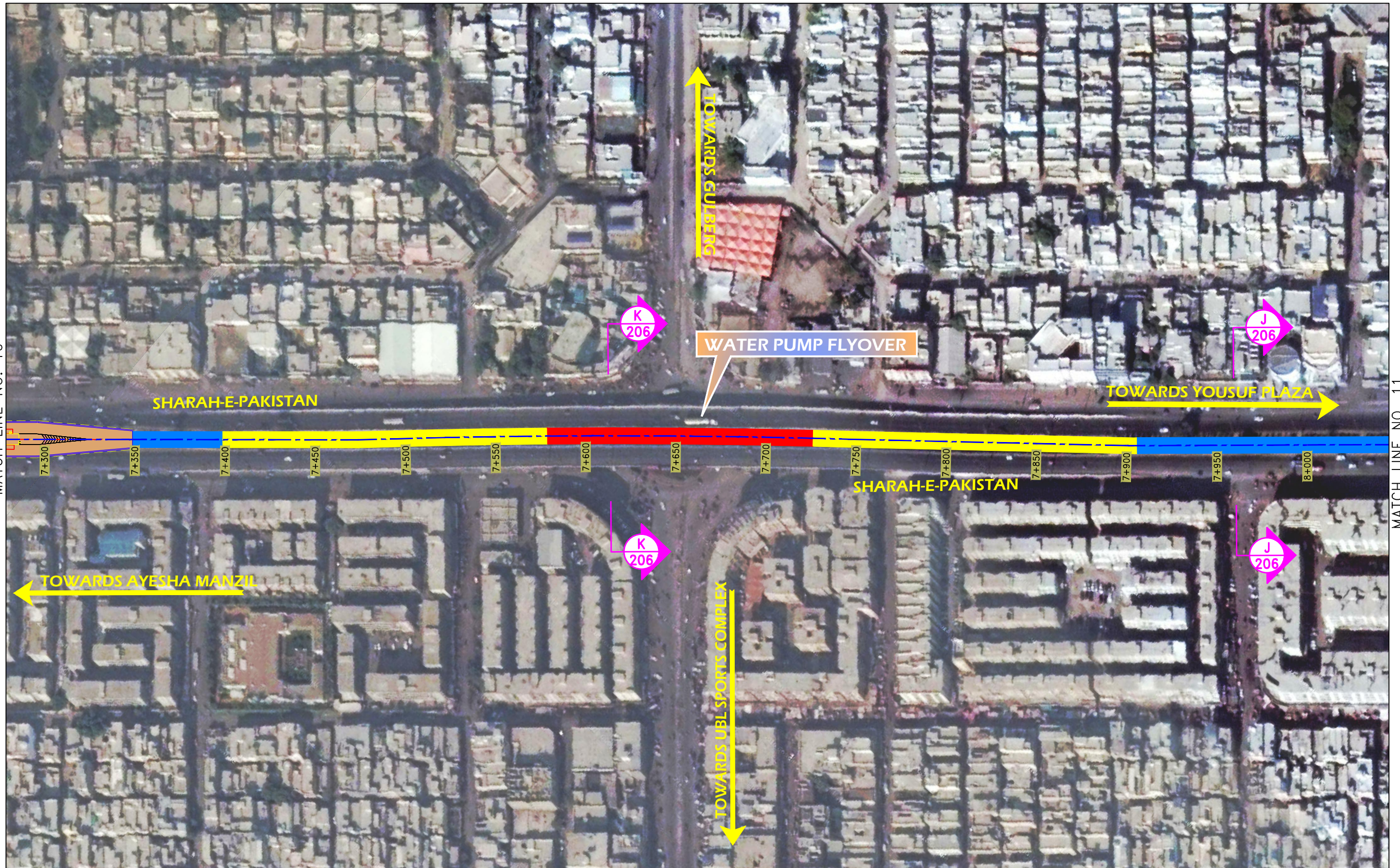
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MATCH LINE NO. 10








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Junaid_Rehman - Thu, 08 Feb 2018 - 5:18pm

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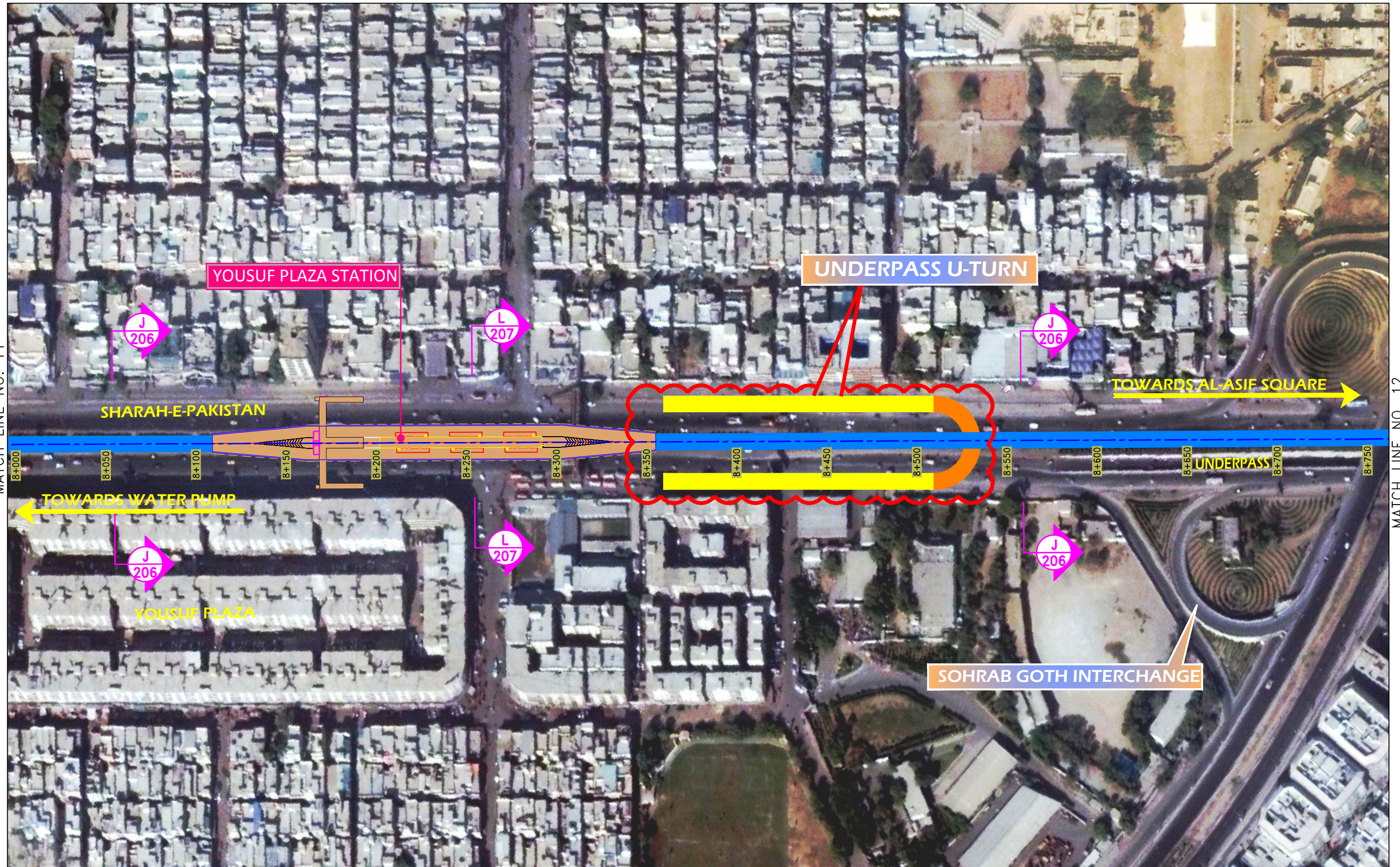


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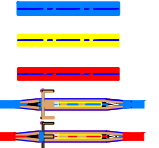

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Drawing file path & name
User and Print Date
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MATCH LINE NO. 11



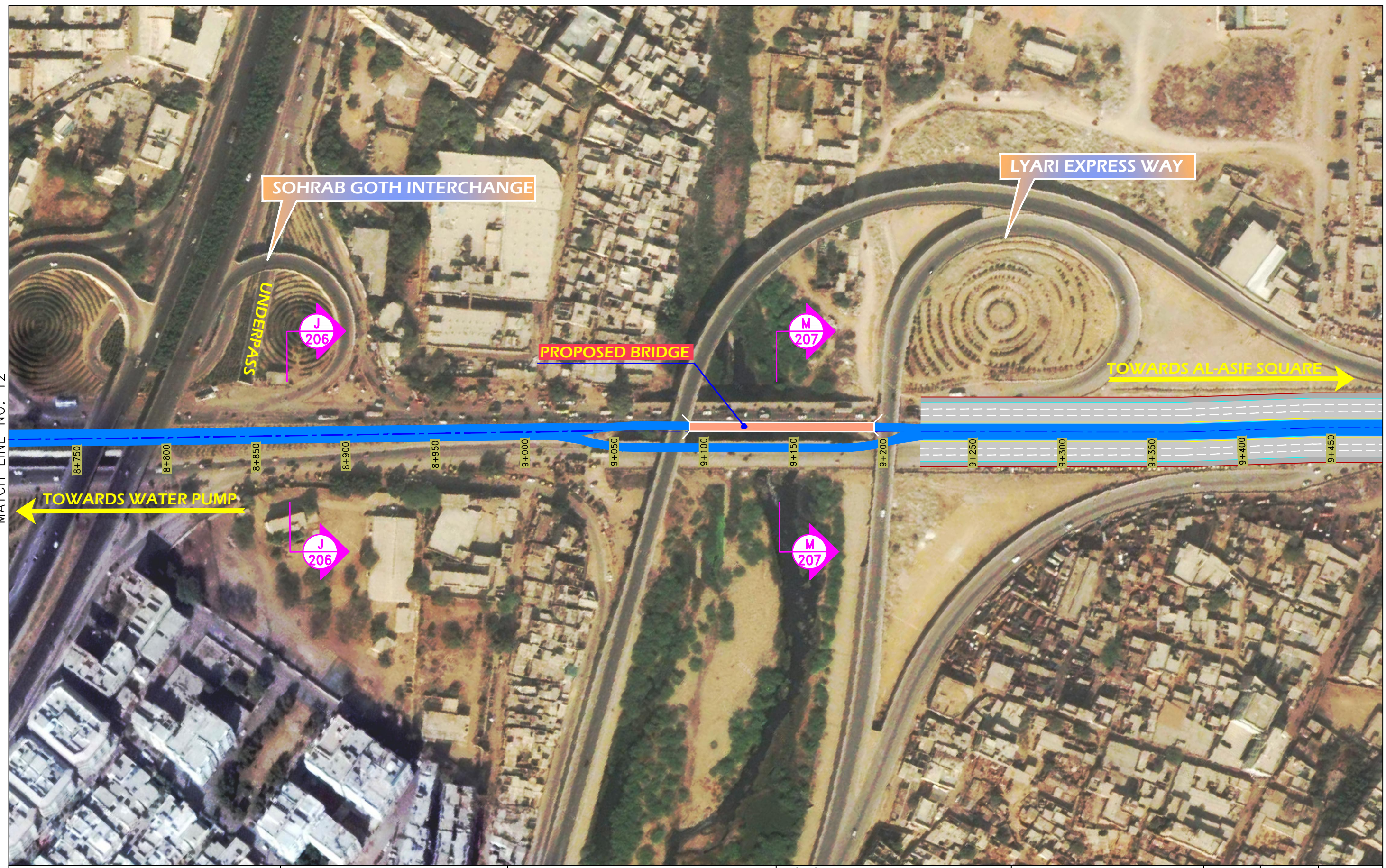
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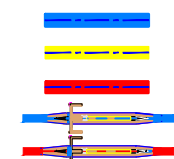
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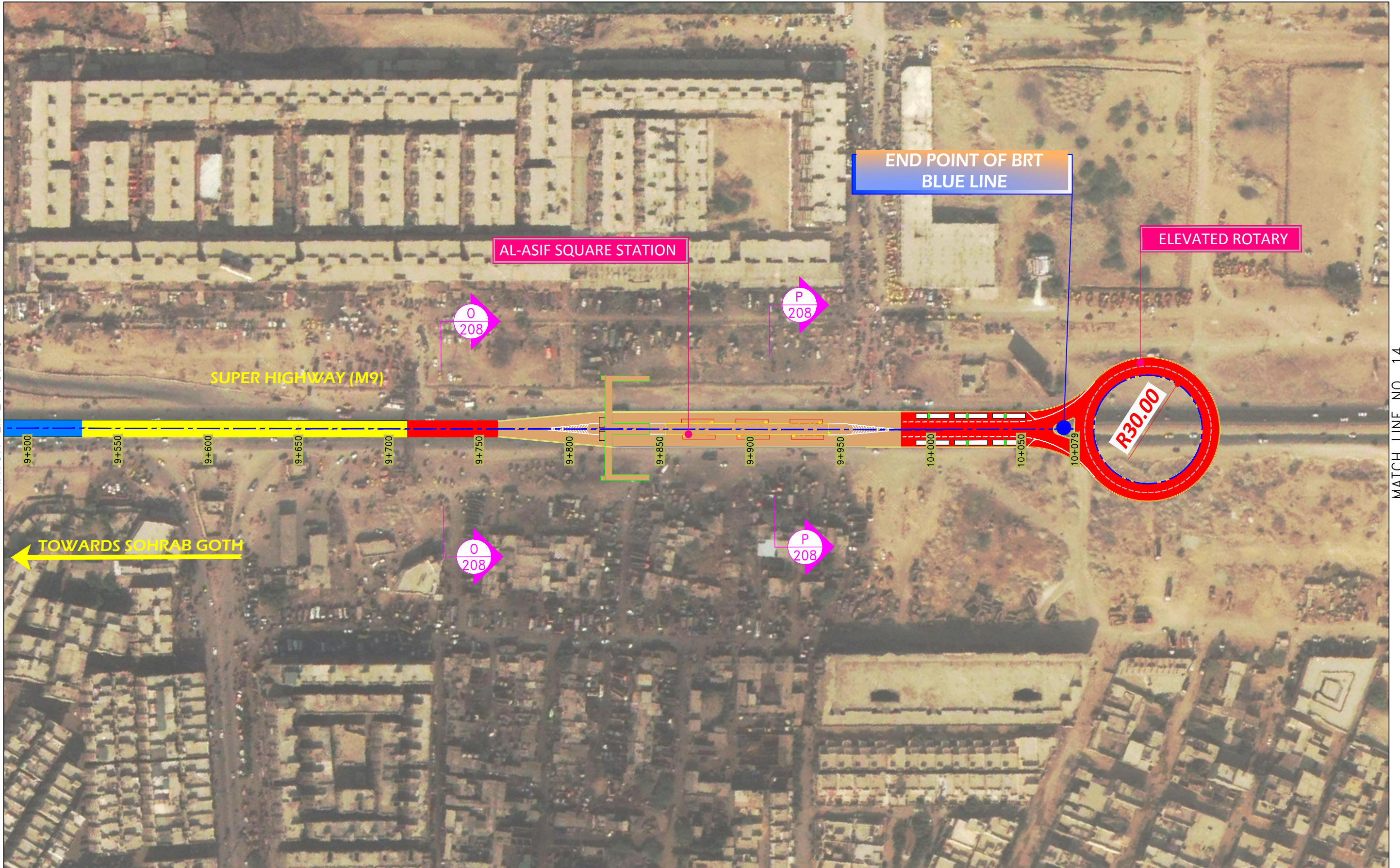
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Junaid_Rehman - Thu, 08 Feb 2018 - 5:15pm







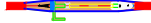
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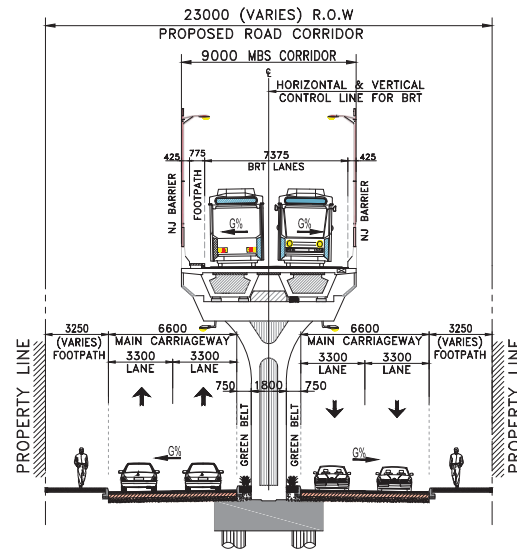
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SUBMITTED		Rev No: P0																			
APPROVED																					



<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div> Engineering - Architecture - Planning - Mapping - Technology</div>	<div>LEGENDS:</div> <div> BRT RUNWAY AT-GRADE  BRT RUNWAY AT-RAMP  BRT RUNWAY ELEVATED  AT-GRADE BRT STATION  ELEVATED BRT STATION</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>ROAD LAYOUT</div>	DRAWN	JUNAID	Scale:
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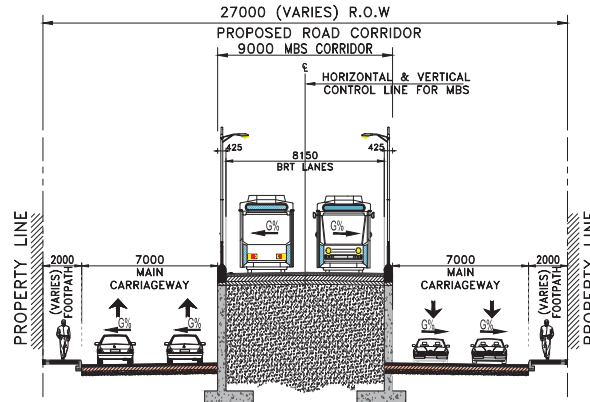
BRTS BLUE LINE KARACHI

TYPICAL CROSS SECTIONS





SECTION A-A

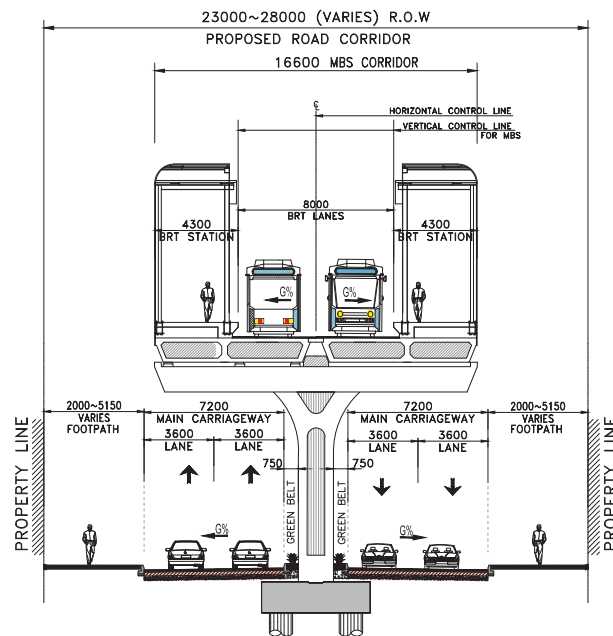
PROPOSED TYPICAL CROSS SECTION
FOR ELEVATED METRO BUS CORRIDOR FROM GURUMANDIR TO TEEN HATTI





SECTION B-B

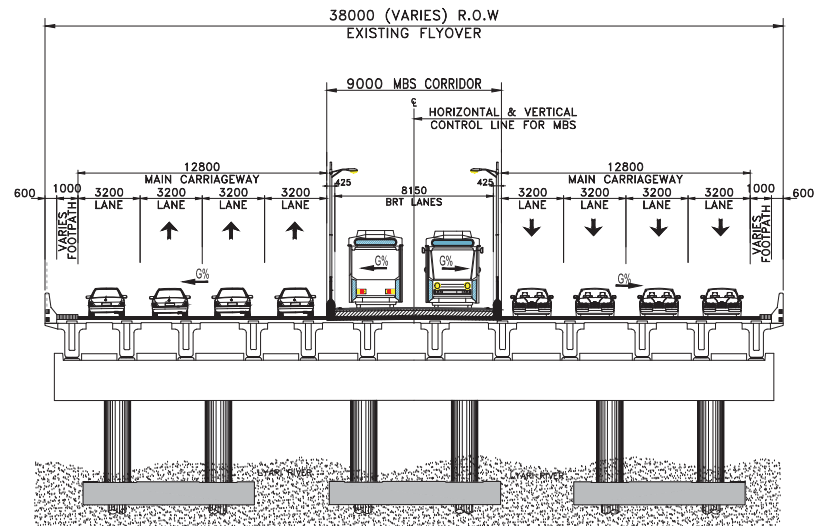
PROPOSED TYPICAL CROSS SECTION AT RAMP OF METRO BUS
CORRIDOR FROM GURUMANDIR TO TEEN HATTI

<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR</div>						DRAWN	JUNAID	Scale:	1:250		
										DESIGNED	DANISH	CTB File Name:	TGS-100	
											CHECKED	NADEEM		
												SUBMITTED		Sheet No. 1/8
		<div>SEGMENT:</div> <div>GURUMANDIR TO AL-ASIF SQUARE</div>	<div>DATED:</div> <div>JANUARY 2018</div>	<div>DRAWING No:</div> <div>2950-01-01-02-200_P0</div>	0	15-01-18	PRELIMINARY DESIGN							
					REV	DATE	DESCRIPTION							
									APPROVED			Rev No:	P0	





SECTION A1-A1
PROPOSED TYPICAL CROSS SECTION
FOR ELEVATED METRO BUS STATION (SPLIT TYPE) AT GURUMANDIR & MARTIN QUARTERS

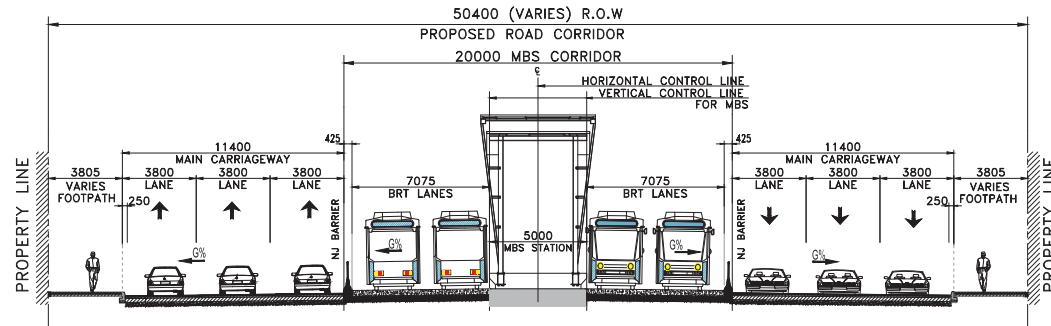
CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANTS:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE SEGMENT: GURUMANDIR TO AL-ASIF SQUARE	DRAWING TITLE: TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR DATED: JANUARY 2018 DRAWING No: 2950-01-01-02-200A_P0	0	15-01-18	PRELIMINARY DESIGN	SUBMITTED	Sheet No. 1/8
				REV	DATE	DESCRIPTION	APPROVED	Rev No: P0



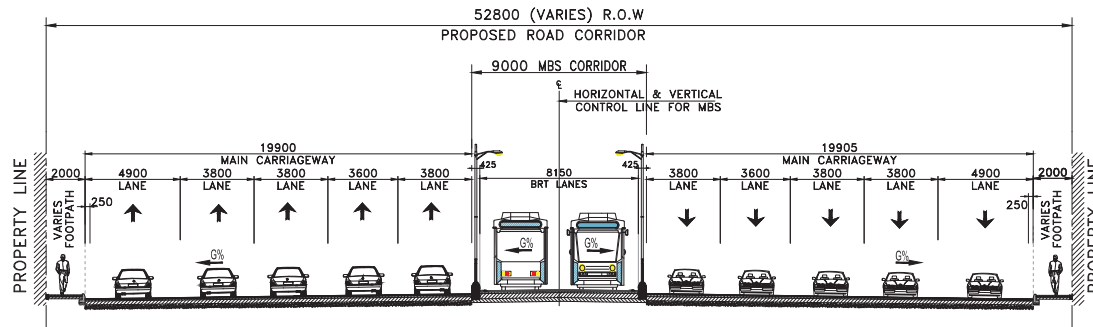
SECTION C-C

PROPOSED TYPICAL CROSS SECTION FOR METROBUS CORRIDOR AT
EXISTING BRIDGE ON LYARI RIVER



<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANTS:</div> <div></div> <div>Engineering - Architecture - Planning - Mapping - Technology</div>	PROJECT:	DRAWING TITLE:						DRAWN	JUNAID	Scale:
		SEGMENT:	TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR						DESIGNED	DANISH	1:250
									CHECKED	NADEEM	CTB File Name:
											TGS-100
		DATED:	DRAWING No:	0	15-01-18	PRELIMINARY DESIGN		SUBMITTED		Sheet No.	2/8
		JANUARY 2018	2950-01-01-02-201_P0	REV	DATE	DESCRIPTION		APPROVED		Rev No:	P0

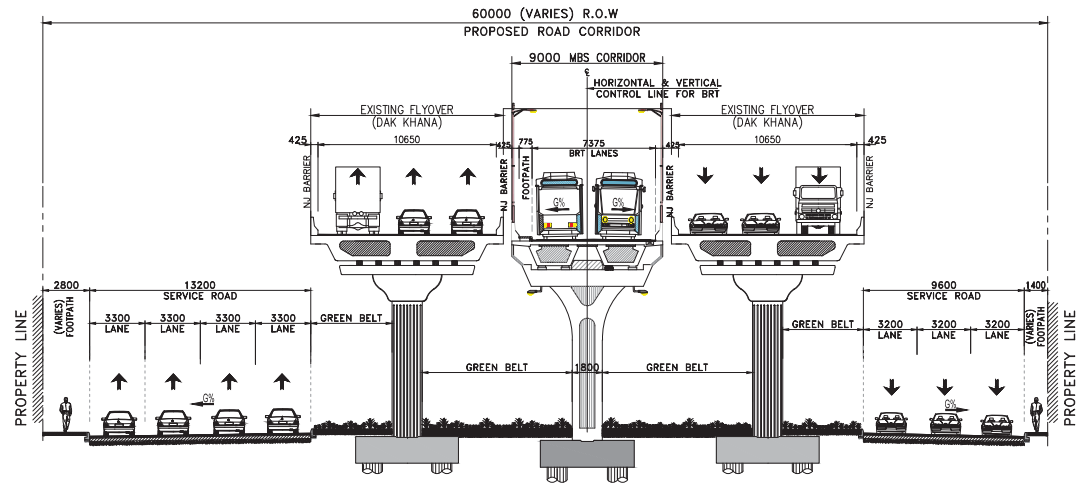


SECTION D-D
PROPOSED TYPICAL CROSS SECTION
FOR AT-GRADE METRO BUS STATION
AT TEEN HATTI

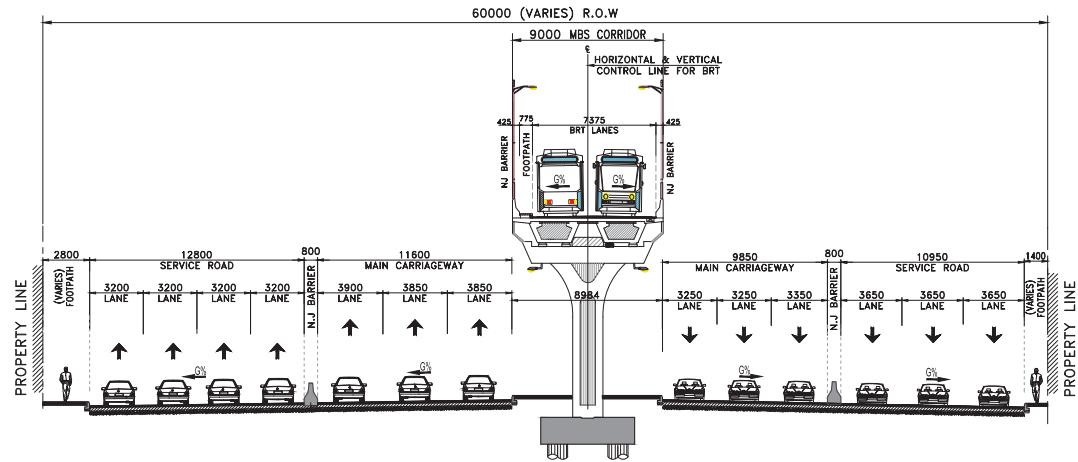


SECTION E-E
PROPOSED TYPICAL CROSS SECTION FOR
AT-GRADE METRO BUS CORRIDOR



CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANTS:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE	DRAWING TITLE: TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR	DRAWN: JUNAID DESIGNED: DANISH CHECKED: NADEEM	Scale: 1:250 CTB File Name: TGS-100
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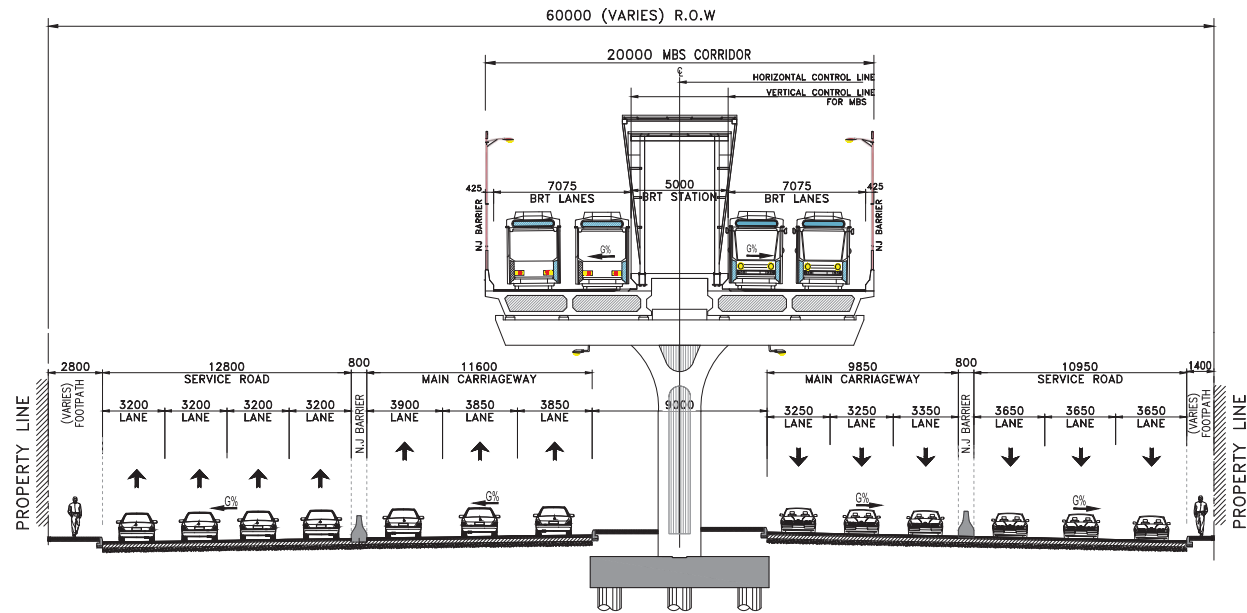


SECTION F-F
PROPOSED TYPICAL CROSS SECTION FOR ELEVATED METROBUS CORRIDOR
ALONG EXISTING FLYOVER OF DAK KHANA





SECTION G-G
PROPOSED TYPICAL CROSS SECTION FOR ELEVATED METRO BUS CORRIDOR
WITH MAIN CARRIAGEWAY & SERVICE ROAD SEPARATED BY N.J BARRIER

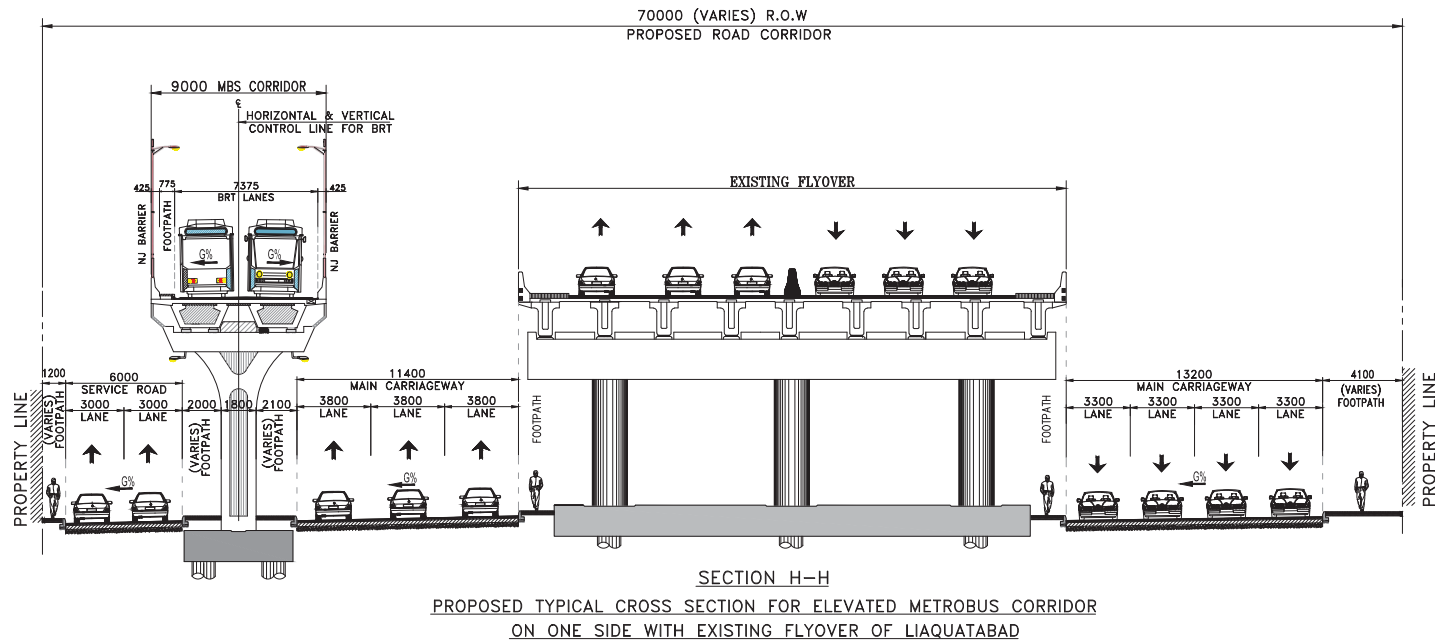
<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR</div>						DRAWN	JUNAID	Scale:	1:125	
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SECTION G1-G1

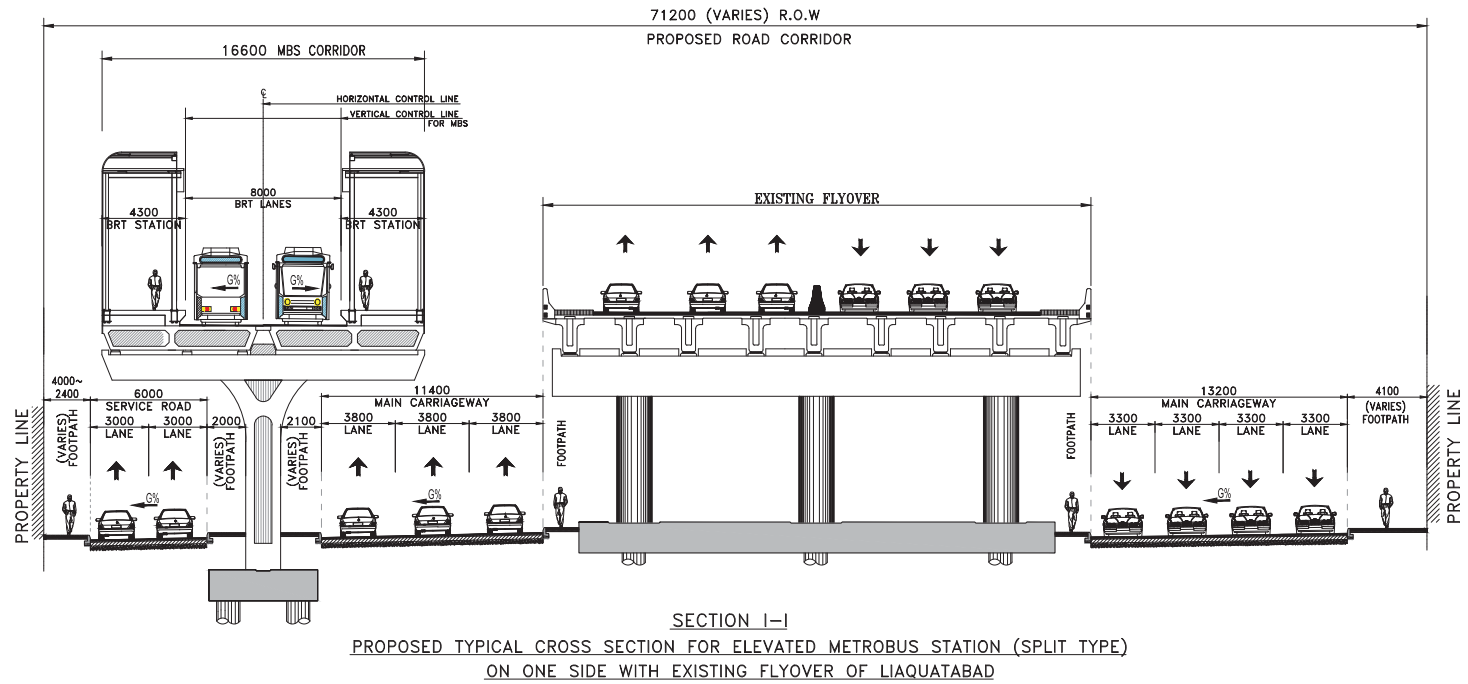
PROPOSED TYPICAL CROSS SECTION FOR ELEVATED METRO BUS STATION
WITH MAIN CARRIAGEWAY & SERVICE ROAD SEPARATED BY N.J BARRIER



<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR</div>					DRAWN	JUNAID	Scale:	1:125	
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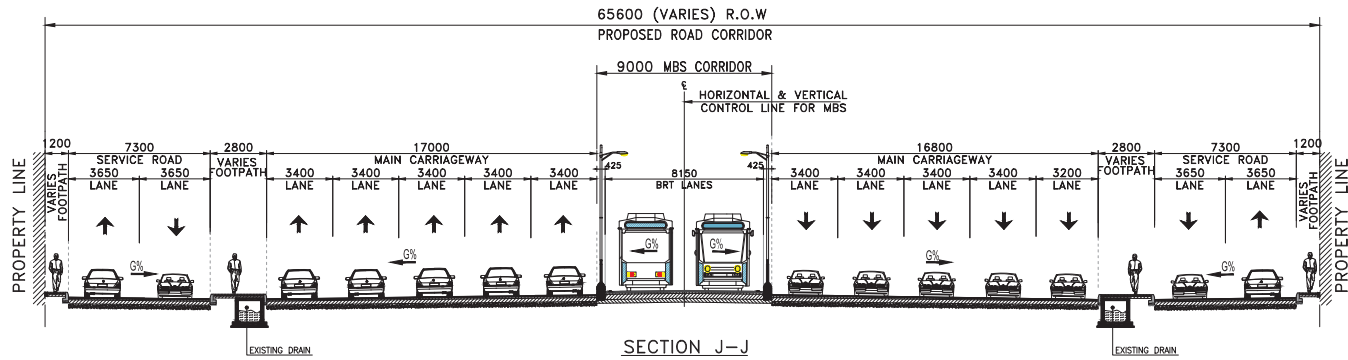


CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANTS:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE SEGMENT: GURUMANDIR TO AL-ASIF SQUARE	DRAWING TITLE: TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR DATED: JANUARY 2018 DRAWING No: 2950-01-01-02-204_P0	0 15-01-18 PRELIMINARY DESIGN REV DATE DESCRIPTION	DRAWN JUNAID	Scale: 1:250
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					SUBMITTED	Rev No: P0
					APPROVED	

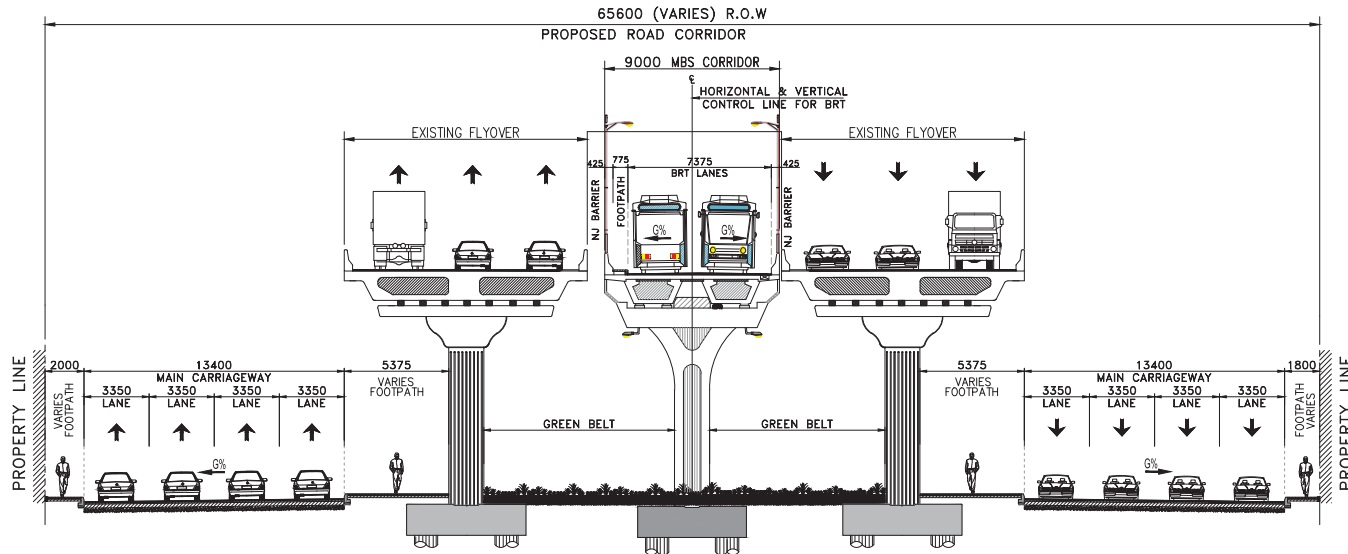
\\sange-servers\03 - Engineering\10 - Jinnah-Ur-Rehman\2050 - BLUE LINE\MSL\LINKS\Coron Section\SC-01.dwg
 User and Plot Date
 Jinnah-Ur-Rehman - Thu, 08 Feb 2018 - 10:50am





<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>OSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	PROJECT:	DRAWING TITLE:					DRAWN	JUNAID	Scale:
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		DATED: JANUARY 2018	DRAWING No: 2950-01-01-02-205_P0	0	15-01-18	PRELIMINARY DESIGN		APPROVED		Rev No: P0

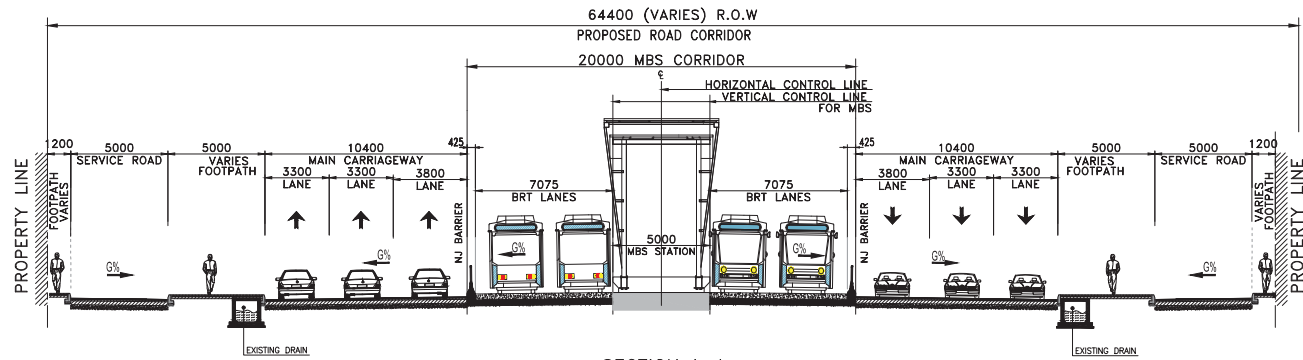


SECTION J-J
PROPOSED TYPICAL CROSS SECTION FOR AT-GRADE METRO BUS
CORRIDOR AT SHAHRAH-E-PAKISTAN

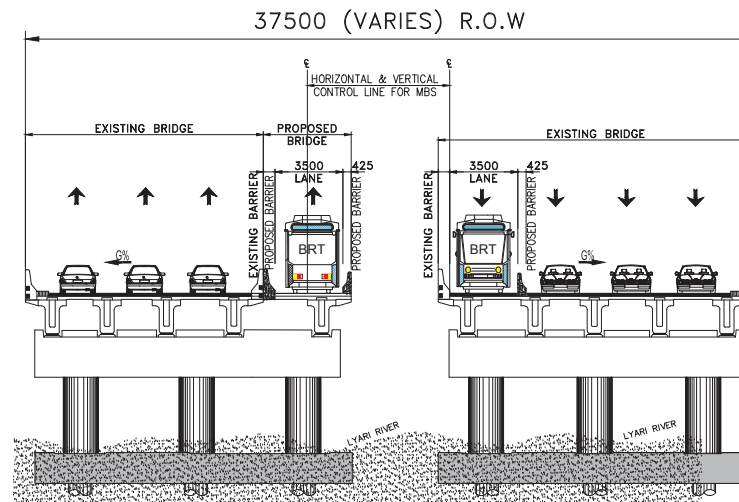


SECTION K-K
PROPOSED TYPICAL CROSS SECTION FOR ELEVATED METROBUS CORRIDOR ALONG
EXISTING FLYOVER OF AYSHA MANZIL & WATER PUMP



<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>OSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR</div>						DRAWN	JUNAID	Scale:	1:250
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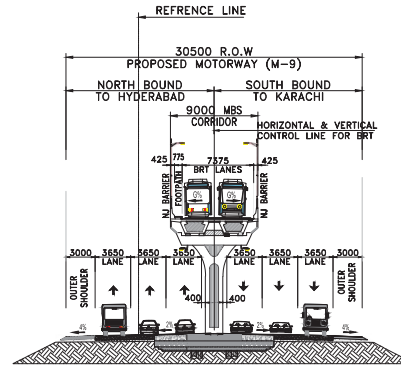


SECTION L-L
PROPOSED TYPICAL CROSS SECTION FOR AT-GRADE
METRO BUS STATION

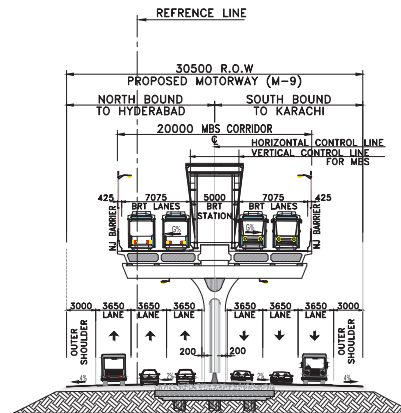


SECTION M-M
PROPOSED TYPICAL CROSS SECTION FOR METROBUS CORRIDOR AT
EXISTING BRIDGE OF LYARI RIVER



CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANTS:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE SEGMENT: GURUMANDIR TO AL-ASIF SQUARE	DRAWING TITLE: TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR DATED: JANUARY 2018 DRAWING No: 2950-01-01-02-207_P0	0	15-01-18	PRELIMINARY DESIGN	DRAWN JUNAID	Scale: 1:250
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				REV	DATE	DESCRIPTION	APPROVED	Rev No: P0



SECTION O-O
PROPOSED TYPICAL CROSS SECTION
ON M-9 FOR ELEVATED METRO CORRIDOR AFTER LYARI BRIDGE UP-TO AL-ASIF SQUARE

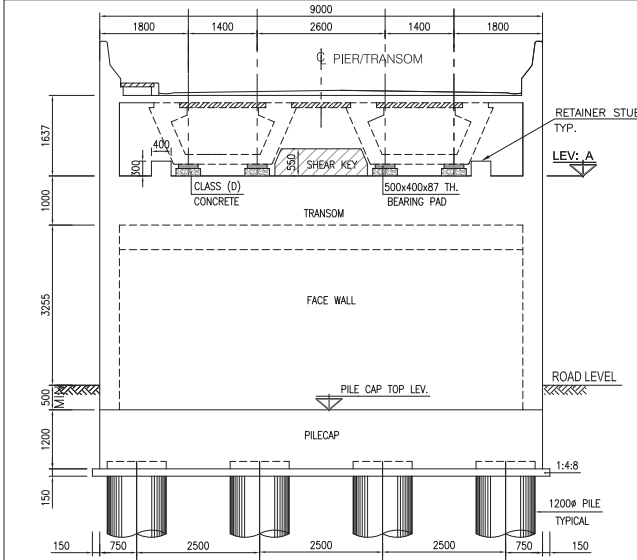


SECTION P-P
PROPOSED TYPICAL CROSS SECTION
ON M-9 FOR ELEVATED METRO STATION AT AL-ASIF SQUARE

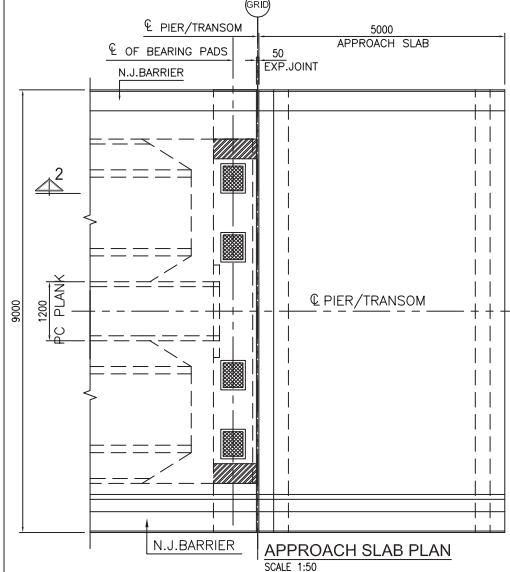
CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANTS:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE SEGMENT: GURUMANDIR TO AL-ASIF SQUARE	DRAWING TITLE: TYPICAL ROADWAY CROSS SECTIONS FOR BRT CORRIDOR DATED: JANUARY 2018 DRAWING No: 2950-01-01-02-208_P0	0	15-01-18	PRELIMINARY DESIGN	SUBMITTED	SHEET No. 8/8
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BRTS BLUE LINE KARACHI

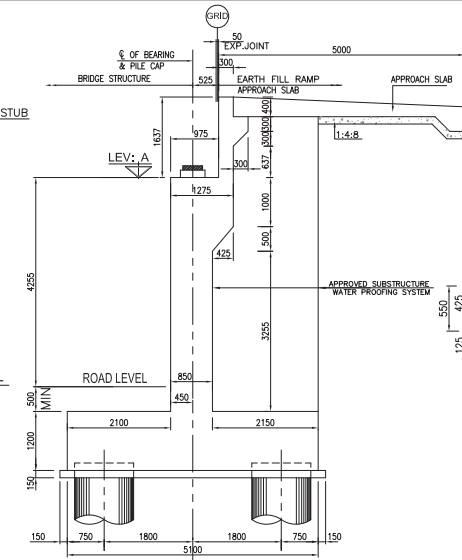
STRUCTURAL DRAWINGS



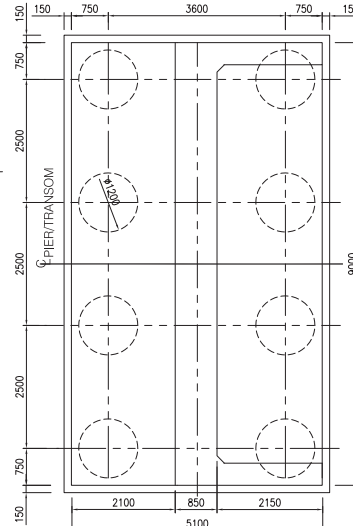
FRONT ELEVATION OF ABUTMENT.
SCALE: 1:50



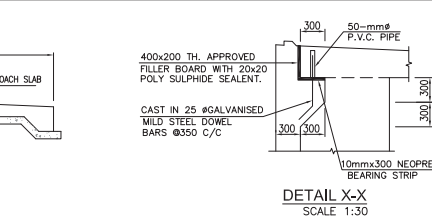
APPROACH SLAB PLAN
SCALE: 1:50



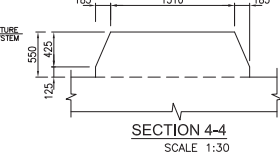
SECTION 1-1
SCALE: 1:50



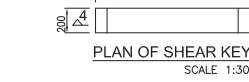
PLAN OF ABUTMENT PILE CAP
SCALE: 1:50



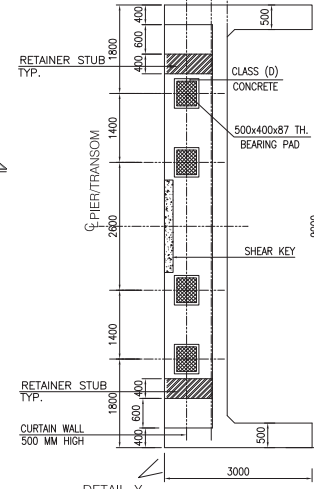
DETAIL X-X
SCALE: 1:30



SECTION 4-4
SCALE: 1:30



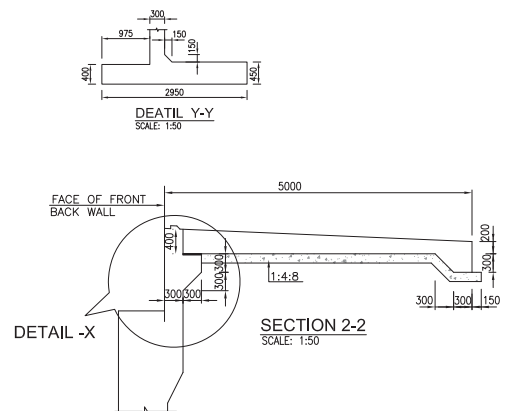
PLAN OF SHEAR KEY
SCALE: 1:30



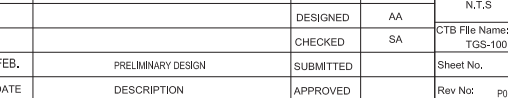
PLAN OF BEARING PADS ARRANGEMENT
SCALE: 1:50

- NOTES:-**
- 1- FOR GENERAL NOTES REFER, DRAWING NO. GN01
 - 2- THE CONTRACTOR HAS TO CONDUCT SOIL INVESTIGATION AND CONFORMATORY BORINGS AT LOCATIONS OF ABUTMENTS AND PIERS TO VERIFY THE BEARING CAPACITY AND SOIL PARAMETERS, IN CASE OF VARIATION IN THE SOIL PROFILE AND BEARING CAPACITY, THE DESIGN SHOULD BE REVIEWED IN CONSULTATION WITH THE DESIGNER AND ENGINEER BEFORE EXECUTION OF THE WORK AT SITE.
 - 3- CONTRACTOR HAS TO SUBMIT SHOP DRAWINGS REGARDING PROPOSAL FOR DEVELOPING THE AESTHETICS AND APPEARANCES OF THE BRIDGE ABUTMENT, PIER WALL, NEW JERSEY BARRIER ETC, TO THE CONSULTANTS BEFORE PROCEEDING TO THE ACTUAL EXECUTION OF THE WORK AT SITE.
 - 4- FOR ELECTRICAL POLES & LIGHTING ARRANGEMENT DETAILS, REFER ELECTRICAL DRAWINGS.
 - 5- BACKFILLING SHALL BE DONE IN LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS AND COMPACTED UPTO 95% MODIFIED AASHTO DRY DENSITY.
 - 6- BACKFILL PLACED AROUND ABUTMENTS AND PIERS SHALL BE COMPACTED ON BOTH SIDES TO THE SAME ELEVATION AT THE SAME TIME.
 - 7- FRACTURED LIME STONE ROCK AFTER EXCAVATION SHALL BE TREATED AND SEALED WITH APPROVED MATERIAL.



IMPORTANT NOTE
LOCATION OF ABUTMENT AND ABUT.PILES ARE SUBJECT TO FINAL DEMARCATION OF THE CORRIDOR PLAN AND PROFILE AT SITE.



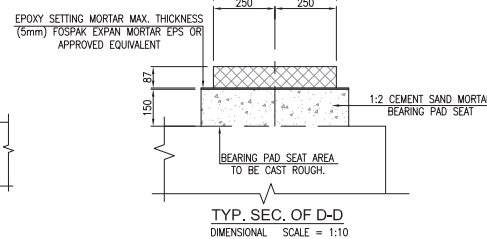
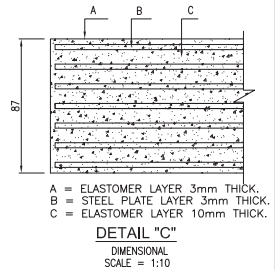
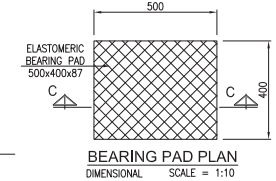
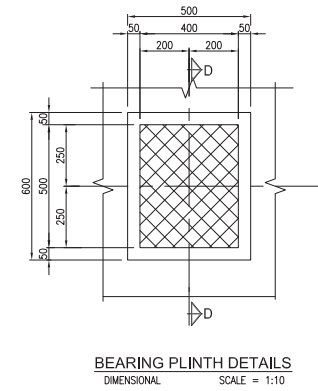
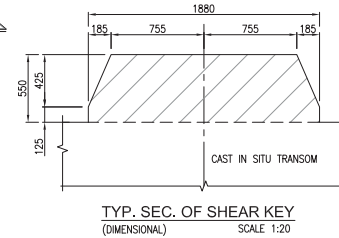
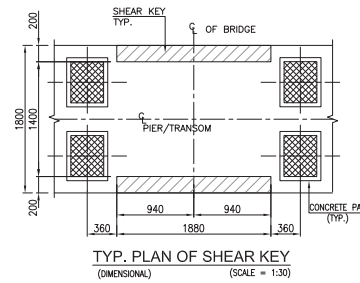
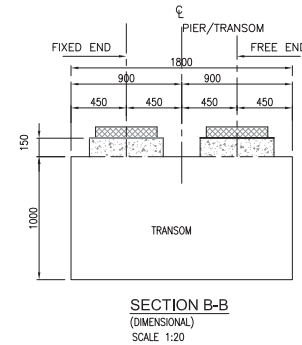
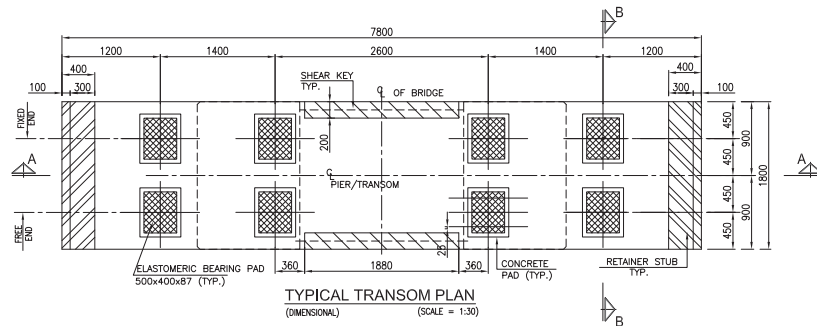
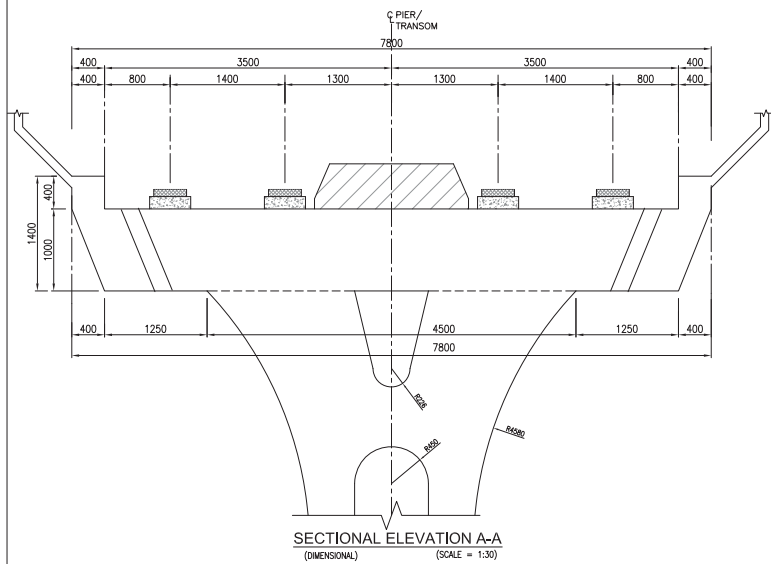
DETAIL Y-Y
SCALE: 1:50





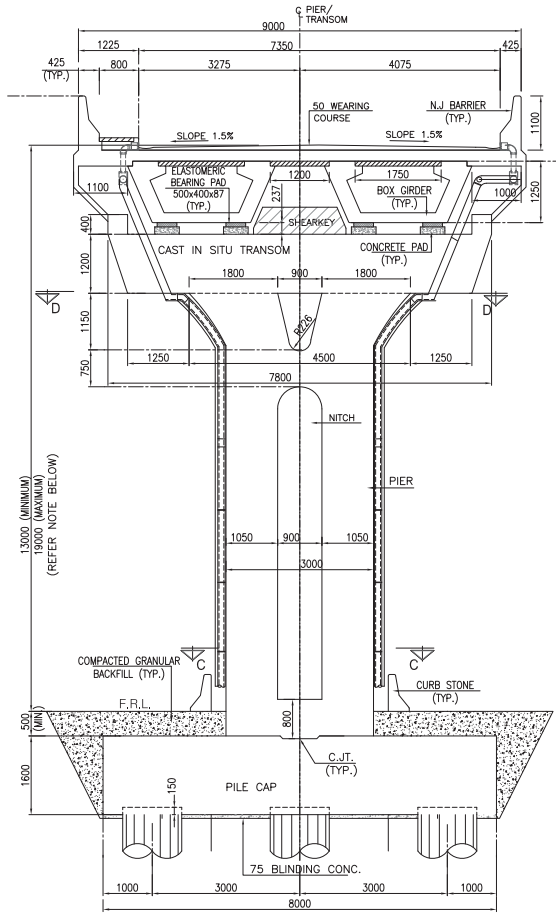
DETAIL X
SCALE: 1:50

<p>CLIENT:</p>  <p>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</p>	<p>PROJECT CONSULTANTS:</p>  <p>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</p>	<p>PROJECT:</p> <p>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</p> <p>SECTION:</p> <p>GURUMANDIR TO AL ASIF SQUARE (M9)</p>	<p>DRAWING TITLE:</p> <p>ABUTMENT PLAN, ELEVATION, SECTION & OTHER DETAILS (DIMENSIONAL DETAILS)</p> <p>DATED: FEBRUARY 2018</p> <p>DRAWING No: S200</p>	<p>PO FEB. PRELIMINARY DESIGN</p> <p>REV DATE DESCRIPTION</p>	<p>DRAWN MR Scale: N.T.S</p> <p>DESIGNED AA CTB File Name: TGS-100</p> <p>CHECKED SA</p> <p>SUBMITTED Sheet No.</p> <p>APPROVED Rev No: 00</p>
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- 1- FOR GENERAL NOTES REFER, DRAWING NO. GN-01
- 2- FOR BEARING PAD & ACCESSORIES APPROVAL OF THE FOREIGN (IMPORTED) VENDOR OF WESTERN EUROPE, USA, JAPAN SHALL BE OBTAINED BY THE DESIGNER.
- 3- DETAILS OF MATERIAL & ALL ACCESSORIES SHALL BE SUBMITTED FROM THE ORIGIN SOURCE BY THE CONTRACTOR TO DESIGNER FOR APPROVAL.
- 4- PRE & POST INSPECTION AT SOURCE SHALL BE CARRIED OUT BY THE DESIGNER'S ENGINEER TEAM. ALL COST SHALL BE DEEMED TO BE INCLUDED IN THE RATES QUOTED BY THE CONTRACTOR.

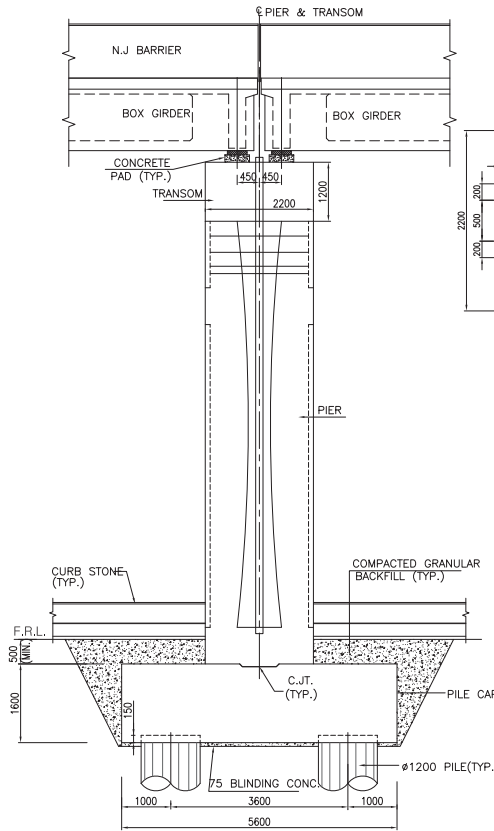


<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div> <div>SECTION:</div> <div>GURUMANDIR TO AL ASIF SQUARE (M9)</div>	<div>DRAWING TITLE:</div> <div>ELEVATION OF TRANSOM, SETOUT BEARING DATA & BEARING PLINTH (DIMENSIONAL DETAILS)</div> <div>DATED: FEBRUARY 2018</div> <div>DRAWING No: S302</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</
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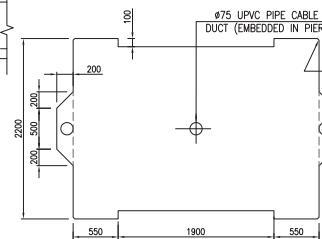


SECTIONAL ELEVATION A-A
(DIMENSIONAL) SCALE 1:50

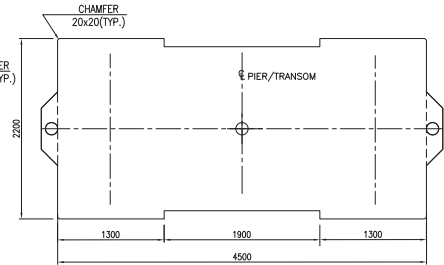
NOTE: VERTICAL CLEARANCE & OVER ALL HEIGHT MAY VARY SUBJECT TO FINALISATION OF GEOMETRY & PROFILE OF BRIDGES AT PARTICULAR LOCATIONS.



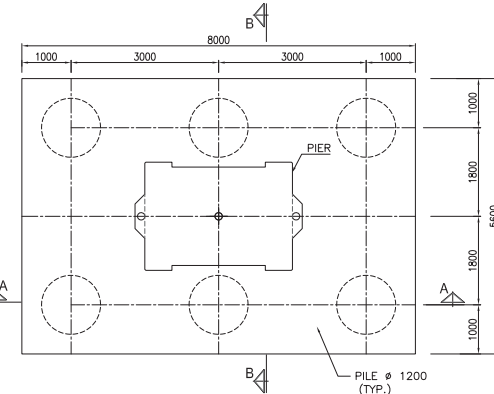
SECTIONAL ELEVATION B-B
(DIMENSIONAL) SCALE 1:50



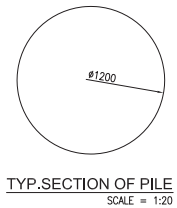
TYP. SECTION C-C AT PIER
(DIMENSIONAL) SCALE = 1:30



TYP. SECTION D-D AT PIER
(DIMENSIONAL) SCALE = 1:30



TYP. PLAN OF PILE CAP
(DIMENSIONAL) SCALE 1:50



TYP. SECTION OF PILE
SCALE = 1:20

NOTES:-

- 1- FOR GENERAL NOTES REFER, DRAWING NO. 2950-1-1-GN-01
- 2- FOR BEARING PAD & ACCESSORIES APPROVAL OF THE FOREIGN (IMPORTED) VENDOR OF WESTERN EUROPE, USA, JAPAN SHALL BE OBTAINED BY THE DESIGNER.
- 3- DETAILS OF MATERIAL & ALL ACCESSORIES SHALL BE SUBMITTED FROM THE ORIGIN SOURCE BY THE CONTRACTOR TO DESIGNER FOR APPROVAL.
- 4- PRE & POST INSPECTION AT SOURCE SHALL BE CARRIED OUT BY THE DESIGNER / ENGINEER TEAM. ALL COST SHALL BE DEEMED TO BE INCLUDED IN THE RATES QUOTED BY THE CONTRACTOR.

CLIENT:



SINDH MASS TRANSIT CELL
TRANSPORT & MASS
TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

PROJECT CONSULTANTS:



PROJECT:

STRUCTURE DEVELOPMENT OF BUS RAPID
TRANSIT SYSTEM BLUE LINE

SECTION:

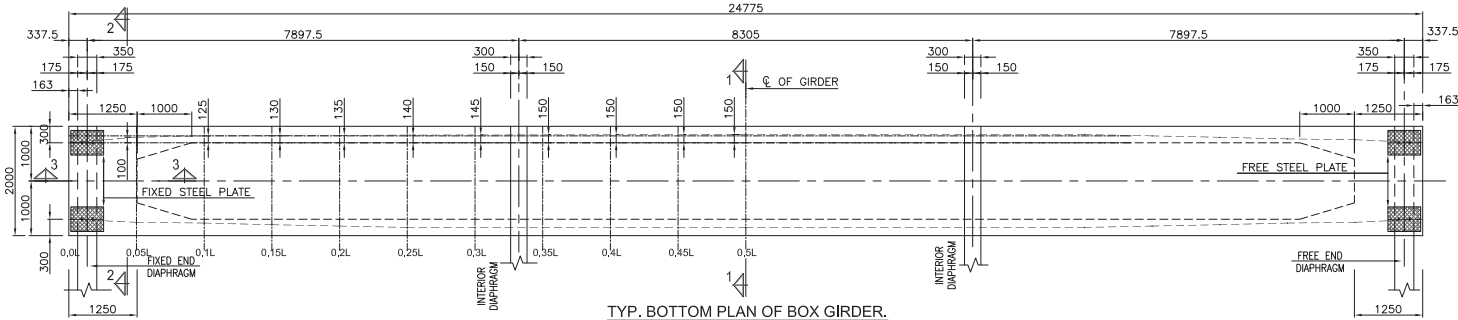
GURUMANDIR TO AL ASIF SQUARE (M9)

DRAWING TITLE:

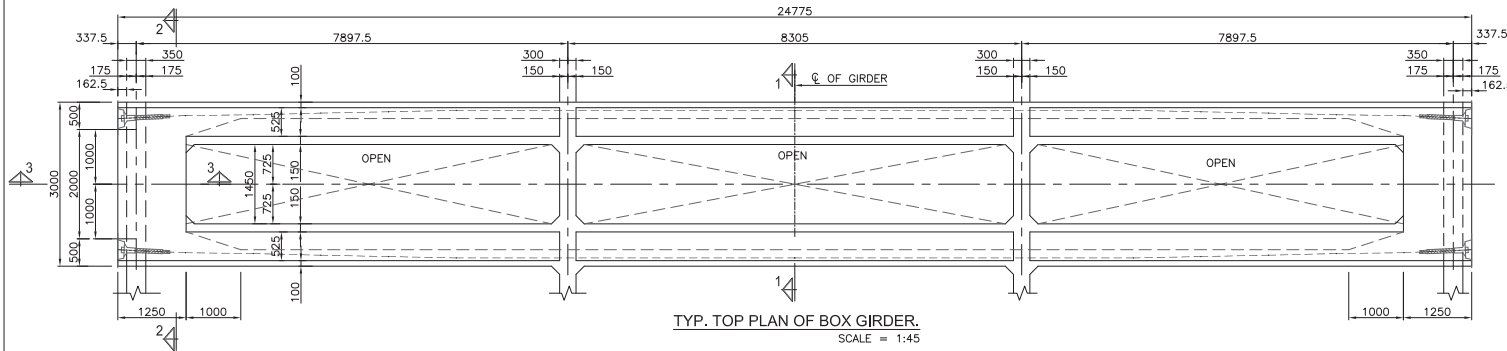
PIER ELEVATION, TRANSOM,
FOUNDATION, PILE & PILE CAP,
(HEIGHT = 1250 TO 19000)
(DIMENSIONAL DETAILS)

DATED: FEBRUARY 2018
DRAWING No: S305

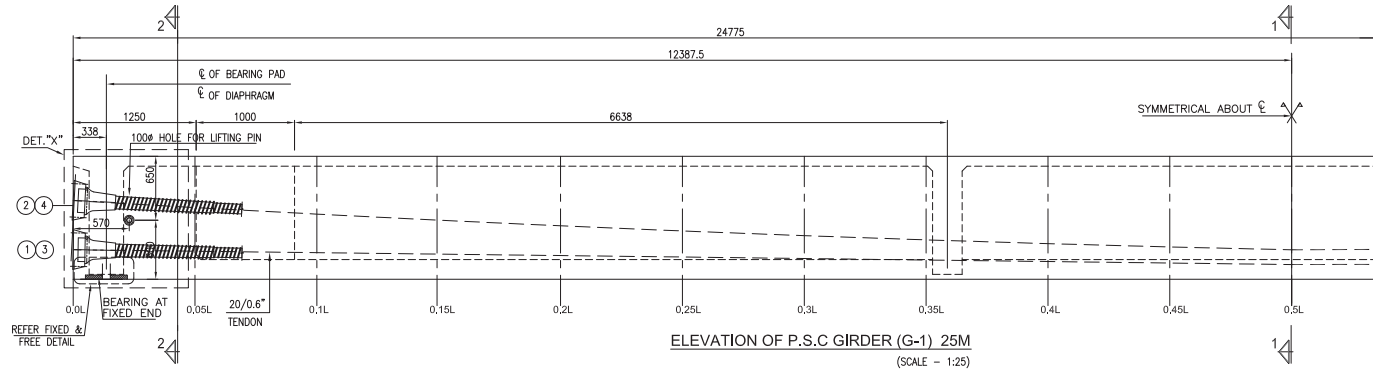
REV	DATE	DESCRIPTION	DRAWN	MR	Scale:
P0	FEB.	PRELIMINARY DESIGN	DESIGNED	AA	N.T.S
			CHECKED	SA	CTB File Name: TGS-100
			SUBMITTED		Sheet No.
			APPROVED		Rev No: P0



TYP. BOTTOM PLAN OF BOX GIRDER.
SCALE = 1:45





TYP. TOP PLAN OF BOX GIRDER.
SCALE = 1:45

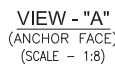
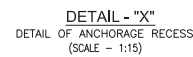


ELEVATION OF P.S.C GIRDER (G-1) 25M
(SCALE = 1:25)

NOTES:-

1. FOR GENERAL NOTES REFER, DRAWING NO. GN-01
2. CONTRACTOR HAS TO OBTAIN APPROVAL REGARDING EXECUTING COMPANY OF PRE / POST TENSIONING, FROM THE DESIGNER BEFORE EXECUTION OF THE WORK AT SITE.
3. CONTRACTOR HAS TO SUBMIT THE METHODOLOGY FOR THE PRE / POST TENSIONING METHODOLOGY.
4. CONTRACTOR HAS TO SUBMIT SAMPLES OF THE ACCESSORIES LIKE WEDGES, SHEATHING, COUPLER, ETC. INTENDED TO BE USED FOR THE PRE / POST TENSIONING OF THE GIRDERS TO THE DESIGNERS FOR APPROVAL BEFORE ACTUAL EXECUTION OF THE WORK AT SITE
5. CONTRACTOR HAS TO OBTAIN APPROVAL FROM THE DESIGNER OF THE PRE-STRESSING STRANDS AND THE SOURCE FROM WHERE THE STRANDS ARE INTENDED TO BE PROCURED, AT LEAST 30 (THIRTY) DAYS BEFORE ACTUAL EXECUTION OF THE WORK AT SITE.
6. ALL SECTION DETAILS & TENDON DATA REFER DWG NO. S402

<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div> <div>SECTION:</div> <div>GURUMANDIR TO AL ASIF SQUARE (M9)</div>	<div>DRAWING TITLE:</div> <div>TYP.PRECAST BOX GIRDER 25 M SPAN PLAN ELEVATION & DETAILS (DIMENSIONAL)</div> <div>DATED: FEBRUARY 2018</div> <div>DRAWING No: S400</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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1. FOR GENERAL NOTES REFER, DRAWING NO. GN-01
2. ALL SECTION & DETAILS MARK REFER DWG NO. S400



پوسمانی POSMANI
Engineering - Architecture - Planning - Mapping - Technology

STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE

GURUMANDIR TO AL ASIF SQUARE (M9)

TYP.PRECAST BOX GIRDER 25 M
SPAN SECTION & DETAIL
PRESTRESSING DETAILS
(DIMENSIONAL)

DATED:
FEBRUARY 2018

Drawing file path & name	User and Plot Date
D:\WorkingFolder\MUUBEEN\2050 Bus Rapid Transit Blue Line Karachi\3-9M SPAN TYPICAL DETAIL\FINAL 9M\5400 TO 403.dwg	M.Uubeen - Thu, 08 Feb 2018 - 11:11am



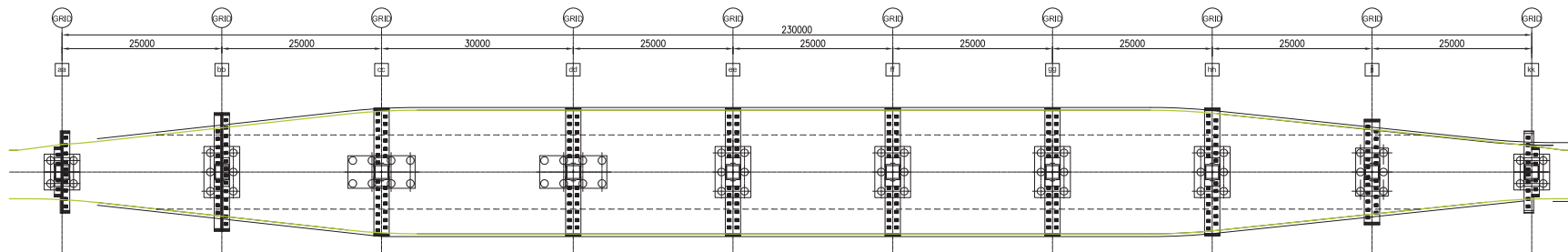
پوسمانی POSMANI
Engineering - Architecture - Planning - Mapping - Technology

DRAWING TITLE:	TYPICAL PLAN OF DECK SLAB
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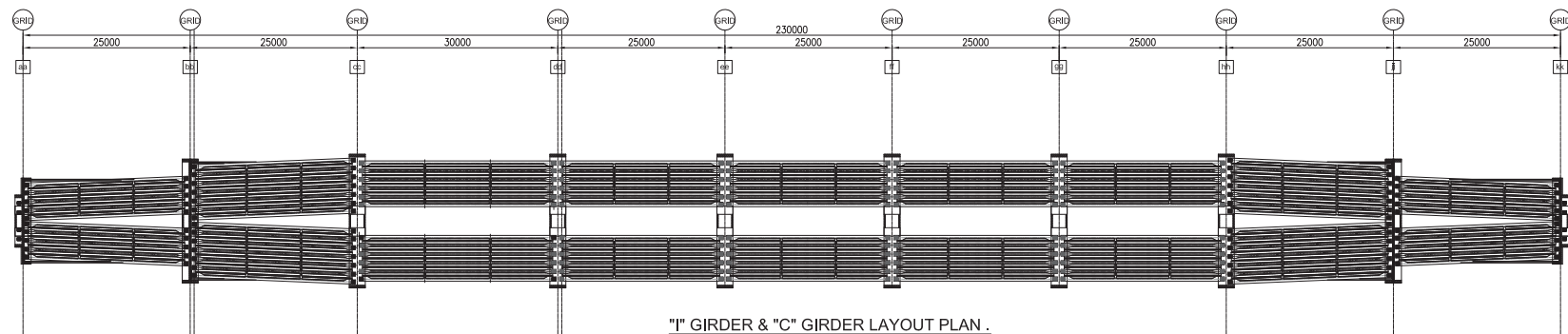
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Scale:	N.T.S
CTB File Name:	TGS-1
Sheet No.	
Rev No:	

- 1- FOR GENERAL NOTES REFER, DRAWING NO. GN-01,
- 2- FOR BEARING PAD & ACCESSORIES APPROVAL OF THE FOREIGN (IMPORTED) VENDOR OF WESTERN EUROPE, USA, JAPAN SHALL BE OBTAINED BY THE DESIGNER.
- 3- DETAILS OF MATERIAL & ALL ACCESSORIES SHALL BE SUBMITTED FROM THE ORIGIN SOURCE BY THE CONTRACTOR TO DESIGNER FOR APPROVAL.
- 4- PRE & POST INSPECTION AT SOURCE SHALL BE CARRIED OUT BY THE DESIGNER / ENGINEER TEAM. ALL COST SHALL BE DEEMED TO BE INCLUDED IN THE RATES QUOTED BY THE CONTRACTOR.



PILE, PILE CAP, PIER
TRANSOM LAYOUT PLAN.
SCALE 1:350



"I" GIRDER & "C" GIRDER LAYOUT PLAN .
SCALE 1:350

PROJECT CONSULTANTS:

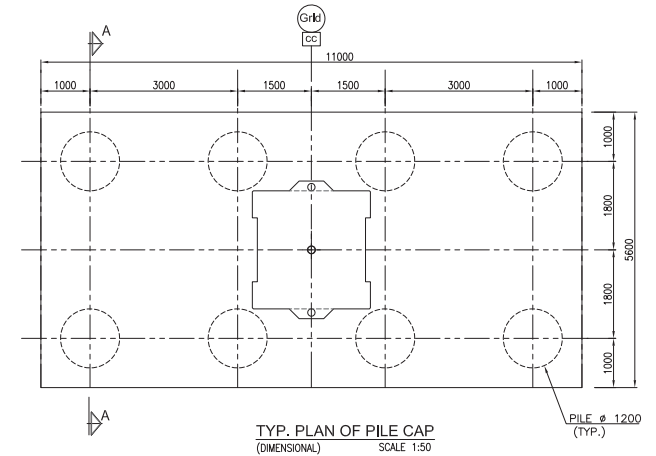
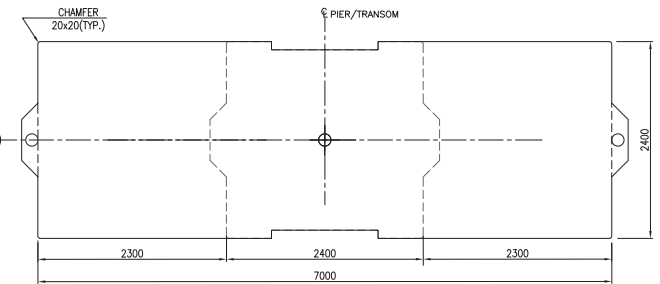
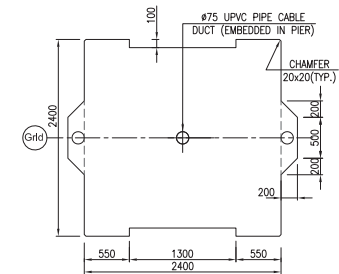
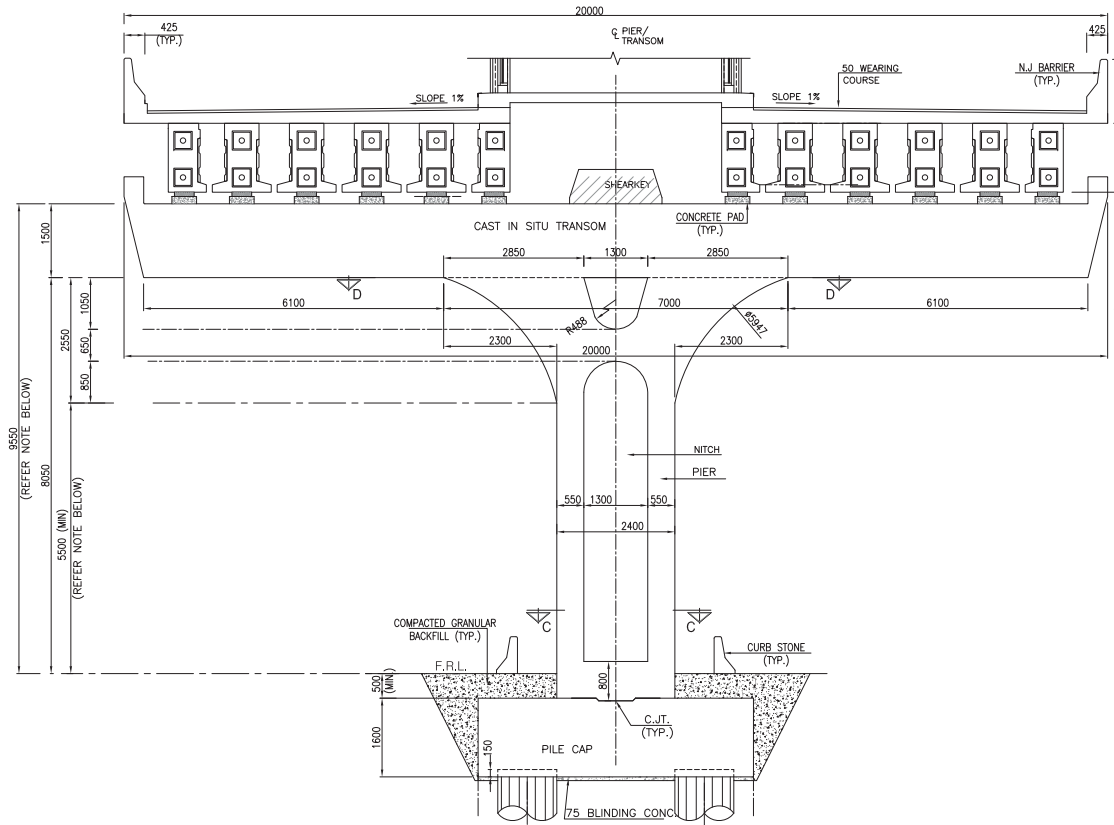
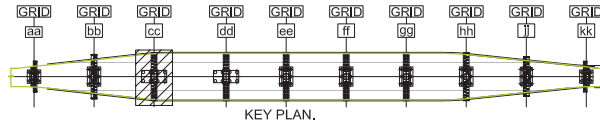
**POSMANI**
Engineering - Architecture - Planning - Mapping - Technology



DRAWING TITLE:

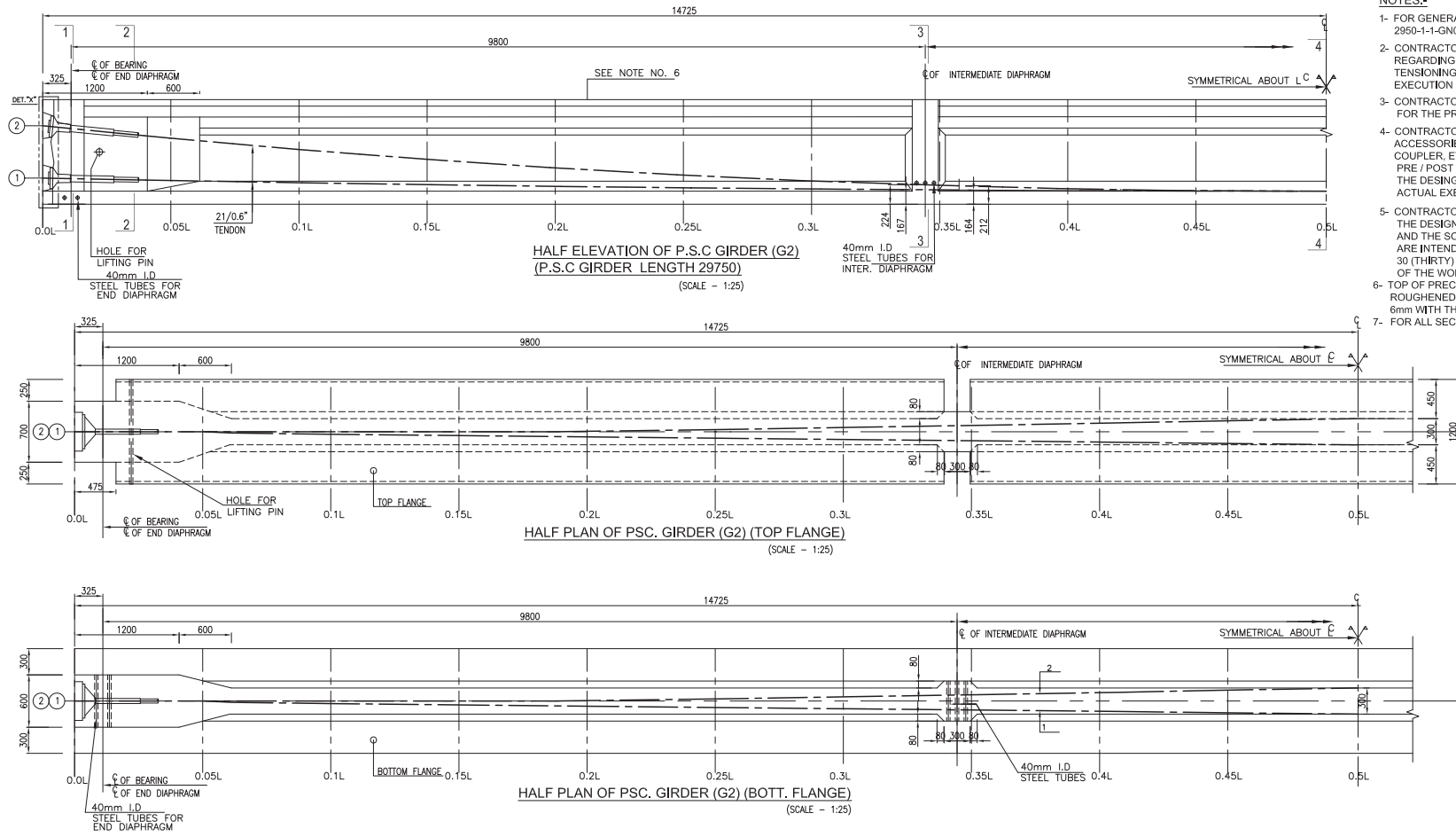
TYPICAL CENTER TYPE STATION
PILE & PILE CAP LAYOUT PLAN

18	DRAWING No: S70
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			CHECKED	SA	CTB File Name:
	P0	FEB.	PRELIMINARY DESIGN	SUBMITTED	TGS-100
REV	DATE	DESCRIPTION	APPROVED	Rev No:	P0





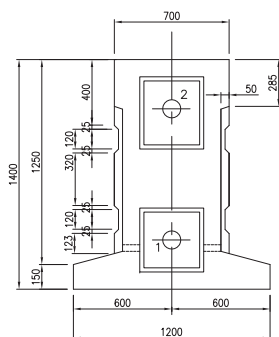
<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>PIER ELEVATION, TRANSOM, FOUNDATION & PILE CAP (DIMENSIONAL DETAILS)</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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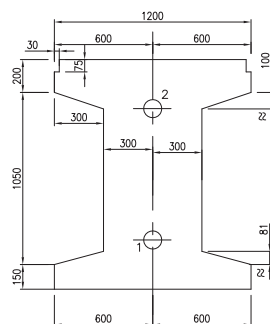
NOTES:-

- FOR GENERAL NOTES REFER, DRAWING NO. 2950-1-1-GN01 TO GN03
- CONTRACTOR HAS TO OBTAIN APPROVAL REGARDING EXECUTING COMPANY OF PRE / POST TENSIONING, FROM THE DESIGNER BEFORE EXECUTION OF THE WORK AT SITE.
- CONTRACTOR HAS TO SUBMIT THE METHODOLOGY FOR THE PRE / POST TENSIONING METHODOLOGY,
- CONTRACTOR HAS TO SUBMIT SAMPLES OF THE ACCESSORIES LIKE WEDGES, SHEATHING, COUPLER, ETC. INTENDED TO BE USED FOR THE PRE / POST TENSIONING OF THE GIRDERS TO THE DESIGNER FOR APPROVAL BEFORE ACTUAL EXECUTION OF THE WORK AT SITE
- CONTRACTOR HAS TO OBTAIN APPROVAL FROM THE DESIGNER OF THE PRESTRESSING STRANDS AND THE SOURCE FROM WHERE THE STRANDS ARE INTENDED TO BE PROCURED, AT LEAST 30 (THIRTY) DAYS BEFORE ACTUAL EXECUTION OF THE WORK AT SITE.
- TOP OF PRECAST GIRDERS SHALL BE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF APPROXIMATELY 6mm WITH THE RIDGES ACROSS THE WIDTH OF BEAM.
- FOR ALL SECTION REFER DWG NO. S733

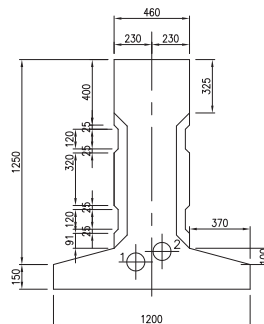
<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>PRECAST I - GIRDER (G2), 30 M SPAN PRESTRESSING DETAILS (FOR 20.0m DECK WIDTH, WITH BUS STATION)</div>					DRAWN	MR	Scale:
		<div>SECTION:</div> <div>GURUMANDIR TO AL ASIF SQUARE (M9)</div>	<div>DATED:</div> <div>FEBRUARY 2018</div>	<div>DRAWING No:</div> <div>S732</div>				DESIGNED	AA	N.T.S
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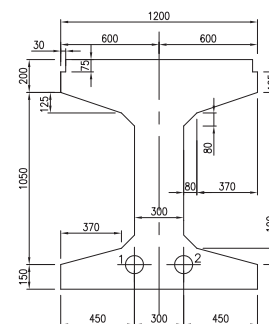
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SECTION 2-2
(SCALE = 1:15)



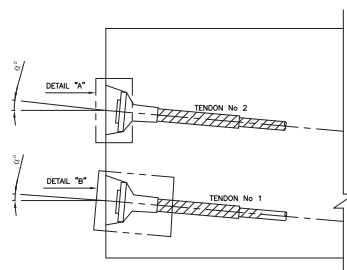
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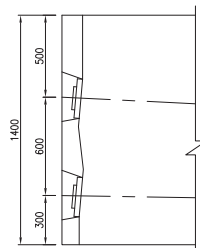
SECTION 4-4
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- NOTES:-

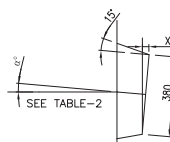
- 1- FOR GENERAL NOTES REFER, DRAWING NO. 2950-1-1-GN01 TO GN03
- 2- CONTRACTOR HAS TO OBTAIN APPROVAL REGARDING EXECUTING COMPANY OF PRE / POST TENSIONING, FROM THE DESIGNER BEFORE EXECUTION OF THE WORK AT SITE.
- 3- CONTRACTOR HAS TO SUBMIT THE METHODOLOGY FOR THE PRE / POST TENSIONING METHODOLOGY.
- 4- CONTRACTOR HAS TO SUBMIT SAMPLES OF THE ACCESSORIES LIKE WEDGES, SHEATHING, COUPLER, ETC. INTENDED TO BE USED FOR THE PRE / POST TENSIONING OF THE GIRDERS TO THE DESIGNER FOR APPROVAL BEFORE ACTUAL EXECUTION OF THE WORK AT SITE
- 5- CONTRACTOR HAS TO OBTAIN APPROVAL FROM THE DESIGNER OF THE PRESTRESSING STRANDS AND THE SOURCE FROM WHERE THE STRANDS ARE INTENDED TO BE PROCURED, AT LEAST 30 (THIRTY) DAYS BEFORE ACTUAL EXECUTION OF THE WORK AT SITE.
- 6- TOP OF PRECAST GIRDERS SHALL BE INTENTIONALLY ROUGHED TO PROVIDE A SURFACE OF APPROXIMATELY 6mm WITH THE RIDGES ACROSS THE WIDTH OF BEAM.
- 7- FOR ALL SECTION MARK REFER DWG NO. S732



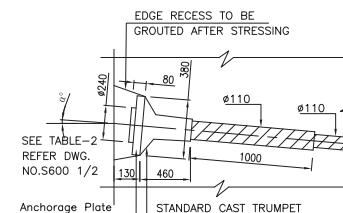
DETAIL OF ANCHORAGE RECESS
(SCALE = 1:15)



DETAIL - "X"
(SCALE = 1:15)



DETAIL - "A"
(SCALE - 1:10)



DETAIL - "B"
(ANCHORAGE RECESS)
(SCALE - 1:10)



SINDH MASS TRANSIT CELL
TRANSPORT & MASS
TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

PROJECT CONSULTANTS:



PROJECT:

STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE

SECTION:

GURUMANDIR TO AL ASIF SQUARE (M9)

DRAWING TITLE:

PRECAST I - GIRDER (G2), 30 M
SPAN PRESTRESSING SECTION

(FOR 20.0m DECK WIDTH, WITH BUS STATION)

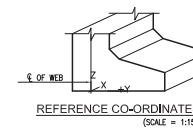
DATED:



FEBRUARY 2018

DRAWING No:	
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S733

			DRAWN	MR	Scale:	
			DESIGNED	AA		N.T.S
			CHECKED	SA	CTB File Name:	TGS-100
N)	P0	FEB.	PRELIMINARY DESIGN	SUBMITTED		Sheet No.
	REV	DATE	DESCRIPTION	APPROVED	Rev No:	P0



<div></div> <div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANTS:</div> <div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div> <div>SECTION:</div> <div>GURUMANDIR TO AL ASIF SQUARE (M9)</div>	<div>DRAWING TITLE:</div> <div>PRECAST C - GIRDER (G1), 30 M SPAN PRESTRESSING DETAILS (FOR 20.0m DECK WIDTH WITH BUS STATION)</div>							DRAWN	MR	Scale:
								DESIGNED	AA		N.T.S	
								CHECKED	SA		CTB File Name:	
											TGS-100	
			DATED: FEBRUARY 2018	DRAWING No: S734	P0	FEB.	PRELIMINARY DESIGN	SUBMITTED	Sheet No.			
					REV	DATE	DESCRIPTION	APPROVED	Rev No: P0			

[illegible]

SECTION 2-2
(SCALE = 1:15)

SECTION 3-3
(SCALE = 1:15)

SECTION 4-4
(SCALE = 1:15)

DETAIL "a"

TENDON No 2

DETAIL "b"

TENDON No 1

DETAIL OF ANCHORAGE RECESS

(SCALE = 1:15)

DETAIL - "X"
(SCALE = 1:15)

DETAIL - "A"
(SCALE - 1:10)

EDGE RECESS TO BE GROUTED AFTER STRESSING

SEE TABLE-2 REFER DWG. NO.S600 1/2

ANCHORAGE PLATE



STANDARD CAST TRUMPET

DETAIL - "B"
(ANCHORAGE RECESS)
(SCALE = 1:10)

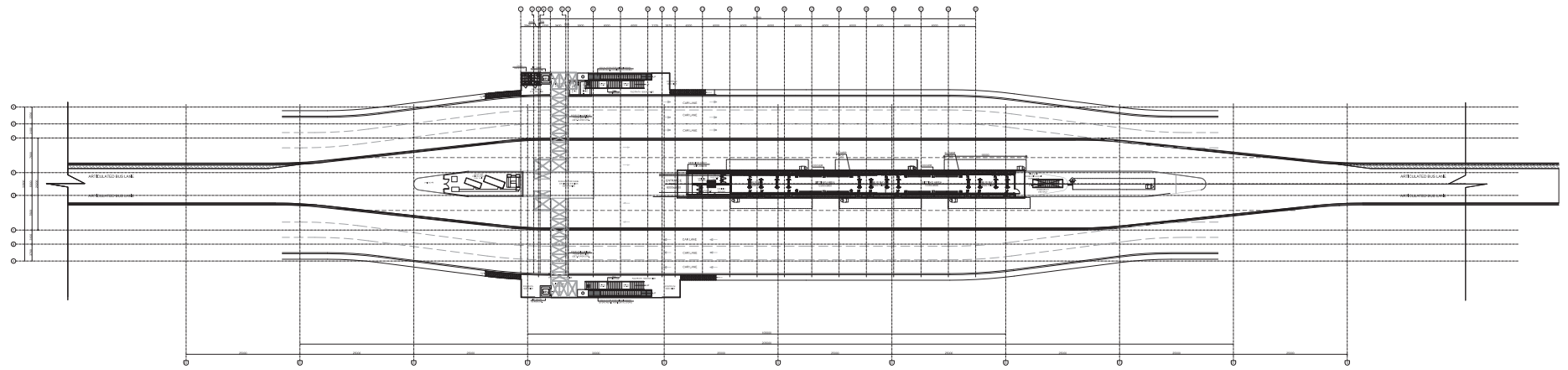
The diagram is a cross-sectional view of a concrete structure. It shows a vertical section on the left and a horizontal section extending to the right. Key dimensions include a vertical diameter of 240, a horizontal distance of 80 from the vertical face to a transition, a vertical distance of 380 from the top to the transition, a horizontal distance of 130 from the vertical face to the base of the transition, a horizontal distance of 460 from the vertical face to the start of the horizontal section, and a horizontal length of 1000 for the main horizontal section. Two horizontal diameters of 110 are indicated. An 'Anchorage Plate' is shown at the base of the vertical section. A note at the top indicates an 'EDGE RECESS TO BE GROUTED AFTER STRESSING'. A reference to 'TABLE-2' and drawing 'NO.S600 1/2' is provided. The title 'DETAIL - "B" (ANCHORAGE RECESS)' and scale '(SCALE = 1:10)' are at the bottom.

NOTES:-




1. FOR GENERAL NOTES REFER, DRAWING NO. GN-01.
2. FOR ALL SECTION MARK REFER DWG NO. S734

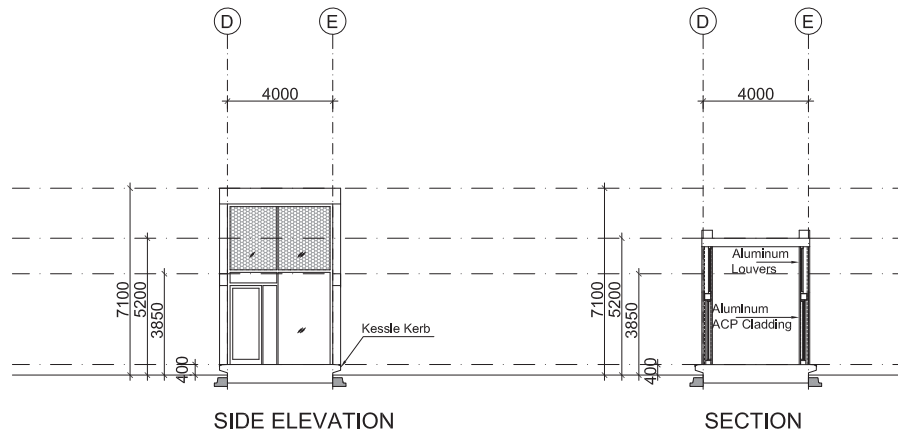
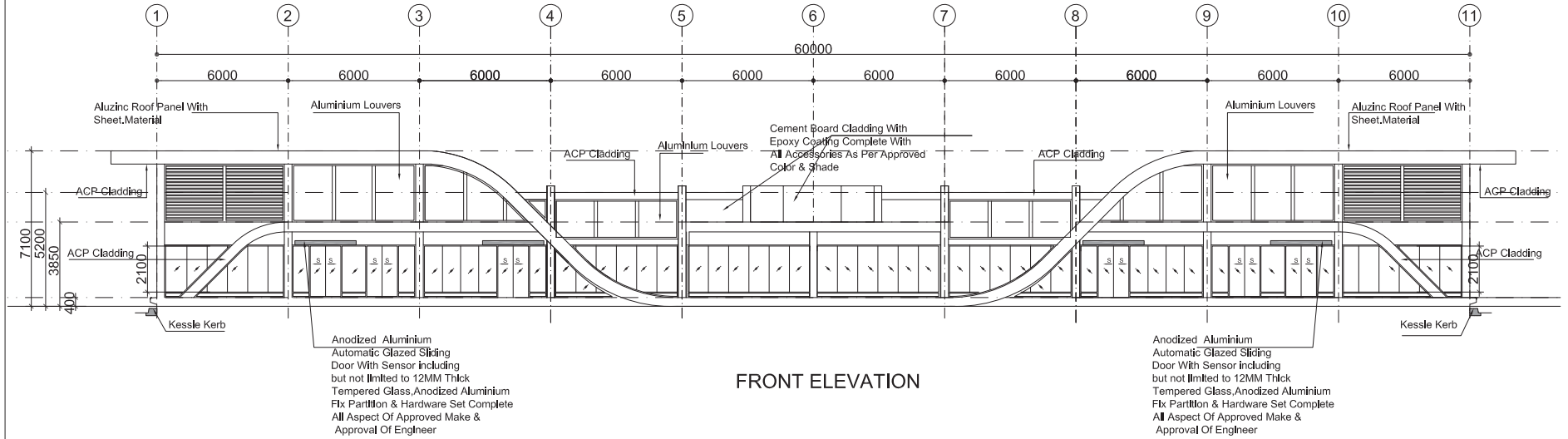
<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPO & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANTS:</div> <div><div>DOSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>PROJECT:</div> <div>STRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>PRECAST C - GIRDER (G1), 30 M SPAN PRESTRESSING SECTION (FOR 20.0m DECK WIDTH WITH BUS STATION)</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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AT GRADE
TYPICAL STATION

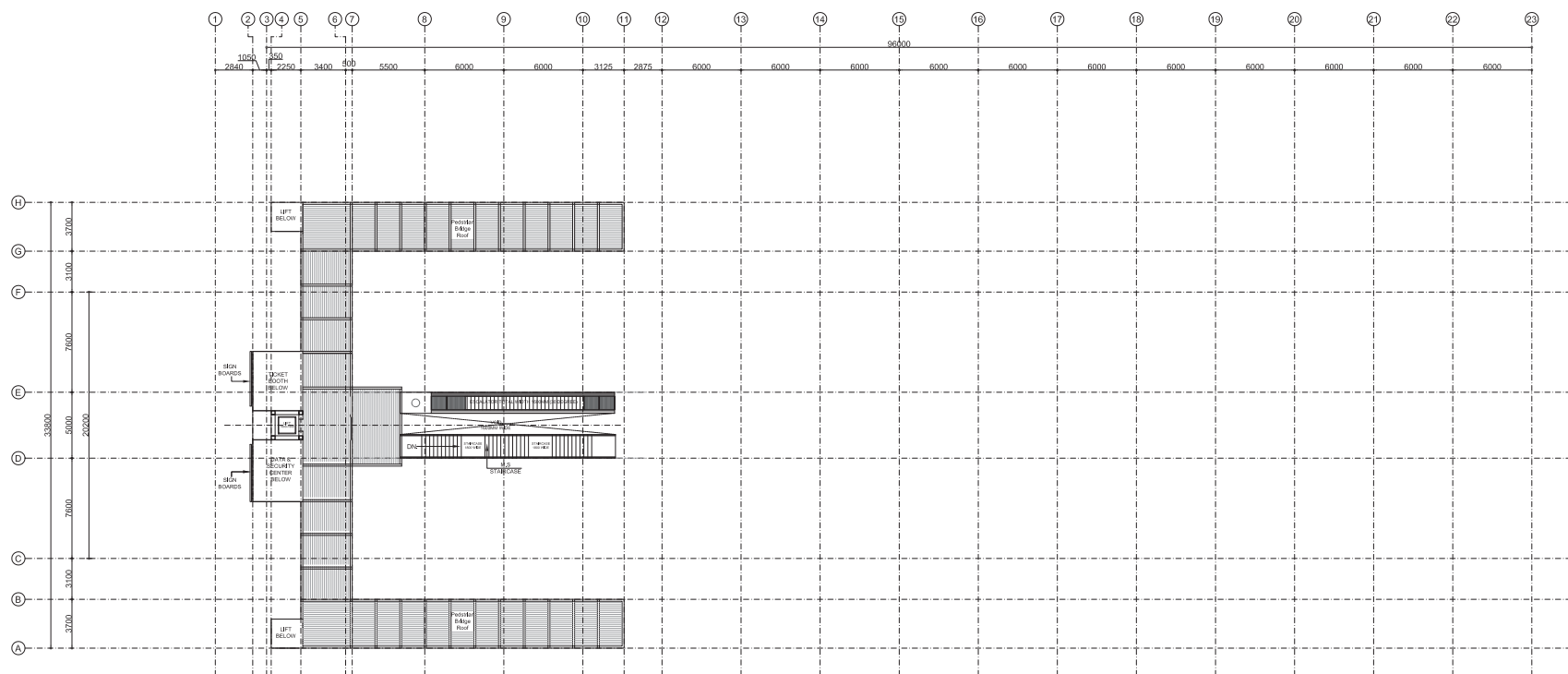


GROUND FLOOR
PLAN

<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div></div> <div>Engineering • Architecture • Planning • Mapping • Technology</div>	<div>LEGENDS:</div> <div></div> <div>BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP BRT RUNWAY ELEVATED AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>GROUND FLOOR PLAN AT GRADE STATION</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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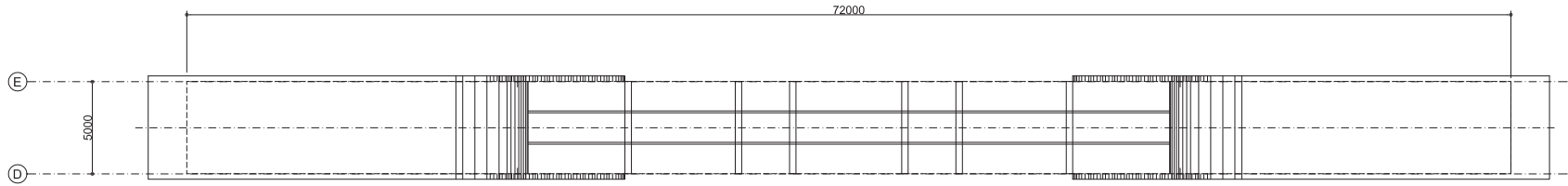
SINDH MASS TRANSIT CELL
TRANSPORT & MASS
TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

LEGENDS:

BRT RUNWAY AT-GRADE
BRT RUNWAY AT-RAMP
BRT RUNWAY ELEVATED
AT-GRADE BRT STATION
ELEVATED BRT STATION
MIX TRAFFIC (M9)




DRAWING TITLE:

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ROOF PLAN STATION

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ELEVATED TYPICAL STATION



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TRANSPORT & MASS
TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

PROJECT CONSULTANT:



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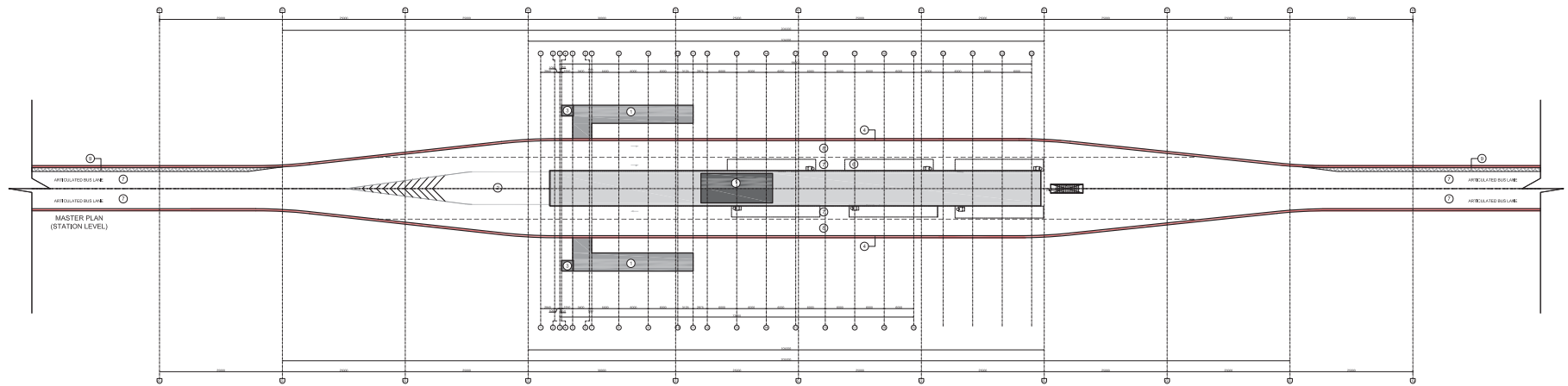
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INFRASTRUCTURE DEVELOPMENT OF BUS
RAPID TRANSIT SYSTEM BLUE LINE

SECTION:
GURUMANDIR TO AL-ASIF SQUARE (M9)




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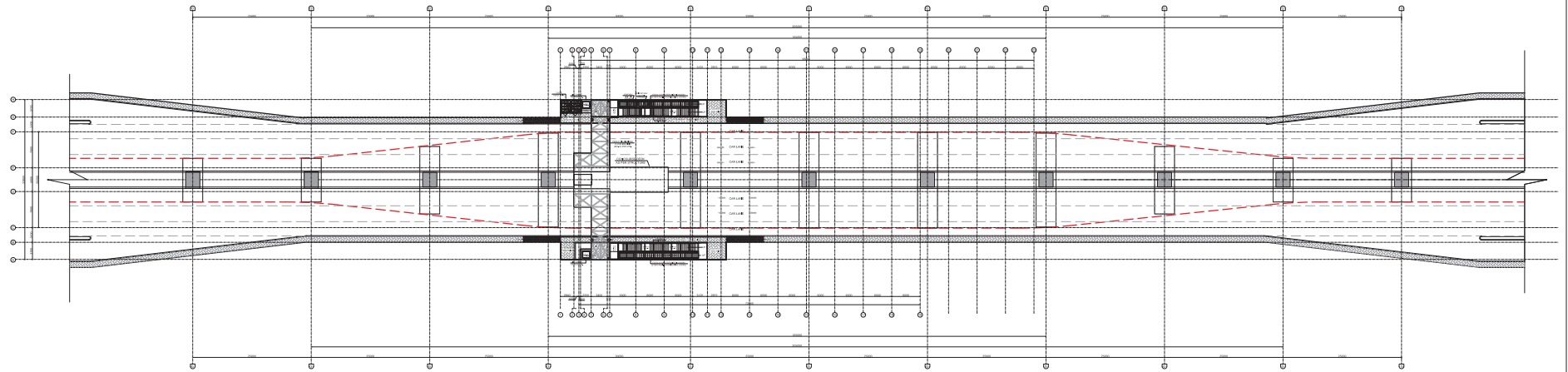
**PROPOSED VIEW FOR
ELEVATED STATION**

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APPROVED		Sheet No.
		Rev No: P0






MASTER PLAN
(STATION LEVEL)

<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL</div> <div>TRANSPORT & MASS</div> <div>TRANSIT DEPARTMENT</div> <div>GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div></div> <div>Engineering - Architecture - Planning - Mapping - Technology</div>	<div>LEGENDS:</div> <div></div> <div>BRT RUNWAY AT-GRADE</div> <div>BRT RUNWAY AT-RAMP</div> <div>BRT RUNWAY ELEVATED</div> <div>AT-GRADE BRT STATION</div> <div>ELEVATED BRT STATION</div> <div>MIX TRAFFIC (M9)</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS</div> <div>RAPID TRANSIT SYSTEM BLUE LINE</div> <div>SECTION:</div> <div>GURUMANDIR TO AL-ASIF SQUARE (M9)</div>	<div>DRAWING TITLE:</div> <div>MASTER PLAN STATION LEVEL</div> <div>(ELEVATED)</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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GROUND FLOOR
PLAN

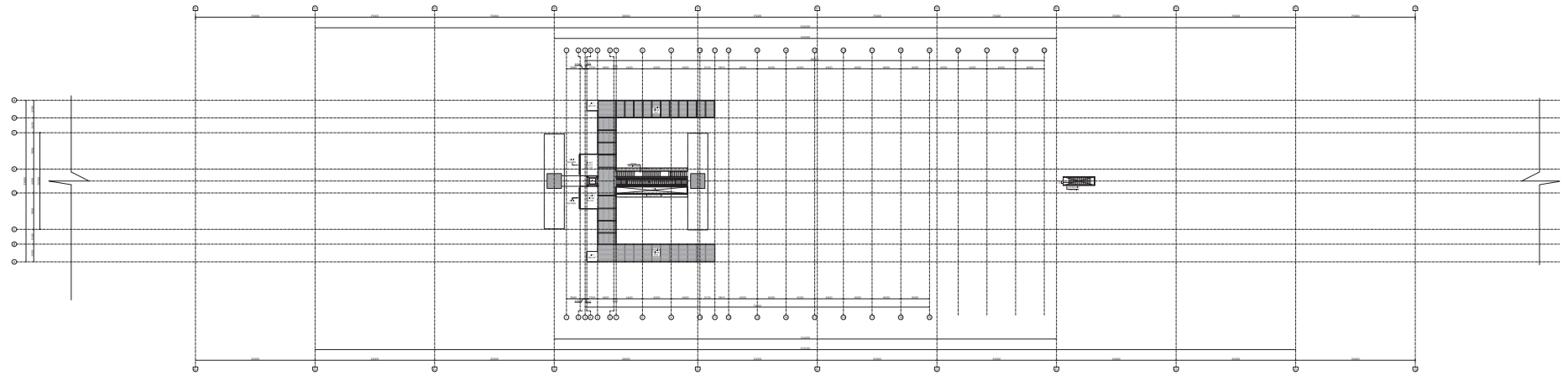
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PEDESTRIAN BRIDGE LEVEL PLAN

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<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>		<div>PROJECT CONSULTANT:</div> <div><div>Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>LEGENDS:</div> <div><div>BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP BRT RUNWAY ELEVATED AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div> <div>SECTION:</div> <div>GURUMANDIR TO AL-ASIF SQUARE (M9)</div>	<div>DRAWING TITLE:</div> <div>PEDESTRIAN BRIDGE LEVEL PLAN (ELEVATED)</div>	<table><tr><td>DRAWN</td><td>FAHAD</td><td>Scale:</td></tr><tr><td>DESIGNED</td><td>FUAAD</td><td>1:1000</td></tr><tr><td>CHECKED</td><td>FAISAL</td><td>CTB File Name:</td></tr><tr><td>SUBMITTED</td><td></td><td>TGS-100</td></tr><tr><td>APPROVED</td><td></td><td>Sheet No.</td></tr><tr><td></td><td></td><td>Rev No: P0</td></tr></table>	DRAWN	FAHAD	Scale:	DESIGNED	FUAAD	1:1000	CHECKED	FAISAL	CTB File Name:	SUBMITTED		TGS-100	APPROVED		Sheet No.			Rev No: P0
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PEDESTRIAN
BRIDGE ROOF PLAN

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User and Plot Date



CLIENT:
SINDH MASS TRANSIT CELL
TRANSPORT & MASS
TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

PROJECT CONSULTANT:
OSMANI
Engineering - Architecture - Planning - Mapping - Technology

LEGENDS:



BRT RUNWAY AT-GRADE
BRT RUNWAY AT-RAMP
BRT RUNWAY ELEVATED
AT-GRADE BRT STATION
ELEVATED BRT STATION
MIX TRAFFIC (M9)




PROJECT:
INFRASTRUCTURE DEVELOPMENT OF BUS
RAPID TRANSIT SYSTEM BLUE LINE

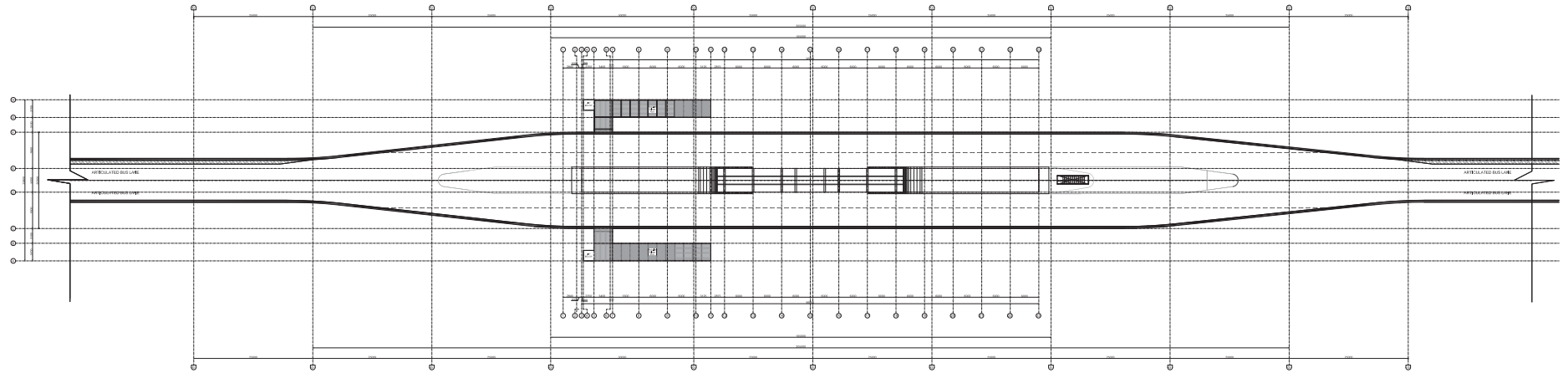
SECTION:
GURUMANDIR TO AL-ASIF SQUARE (M9)

DRAWING TITLE:
PEDESTRIAN BRIDGE
ROOF PLAN
(ELEVATED)




DRAWN	FAHAD	Scale:
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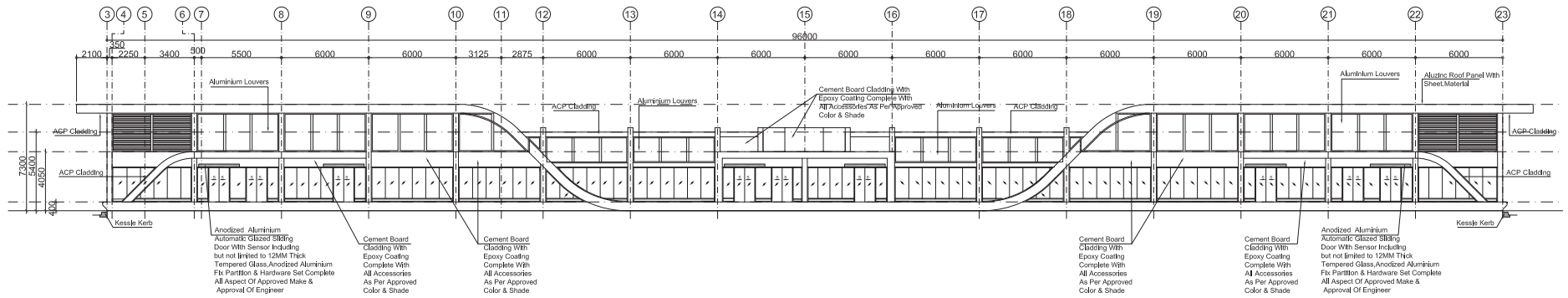
STATION PLAN

<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANT:</div> <div><div>Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>LEGENDS:</div> <div><div>BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP BRT RUNWAY ELEVATED AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>STATION PLAN (ELEVATED)</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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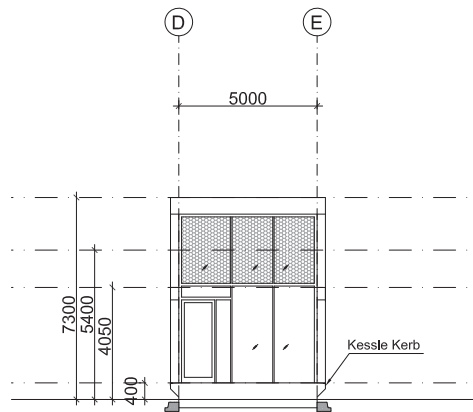


ROOF PLAN




<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div></div> <div>Engineering - Architecture - Planning - Mapping - Technology</div>	<div>LEGENDS:</div> <div></div> <div>BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP BRT RUNWAY ELEVATED AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>ROOF PLAN (ELEVATED)</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>	
			<div>SECTION:</div> <div>GURUMANDIR TO AL-ASIF SQUARE (M9)</div>		<div>DESIGNED</div> <div>FUAAD</div> <div>CTB File Name:</div> <div>TGS-100</div>	
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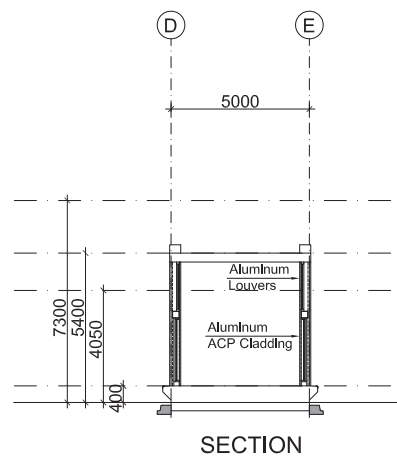
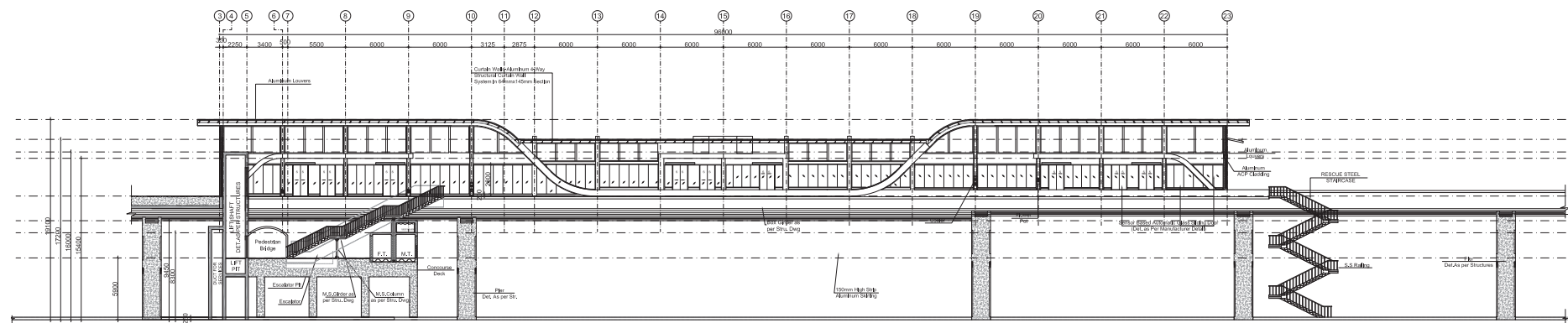


FRONT ELEVATION



LEFT ELEVATION

<div>CLIENT:</div> <div><div>SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH</div></div>	<div>PROJECT CONSULTANT:</div> <div><div>OSMANI Engineering - Architecture - Planning - Mapping - Technology</div></div>	<div>LEGENDS:</div> <div><div>BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)</div></div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>ELEVATIONS (ELEVATED)</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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CLIENT:



PROJECT CONSULTANT:



LEGENDS:



PROJECT:

INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE

SECTION:

GURUMANDIR TO AL-ASIF SQUARE (M9)

DRAWING TITLE:

SECTIONS
(ELEVATED)

	DRAIN
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DRAWN
DESIGNED

DESIGNED	

CHECKED

SUBMITTED

FAHAD

FAHAD
ELIAS

FUAAD

Scale:

1:1

CTB File Name:

	TGS-100
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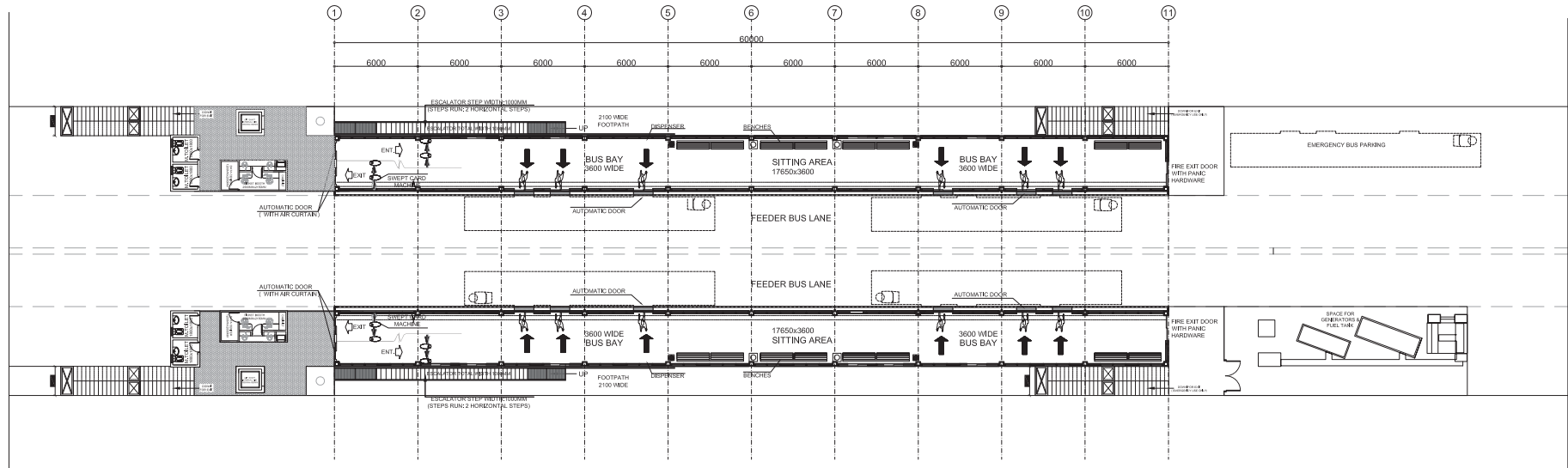
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Rev No: P0

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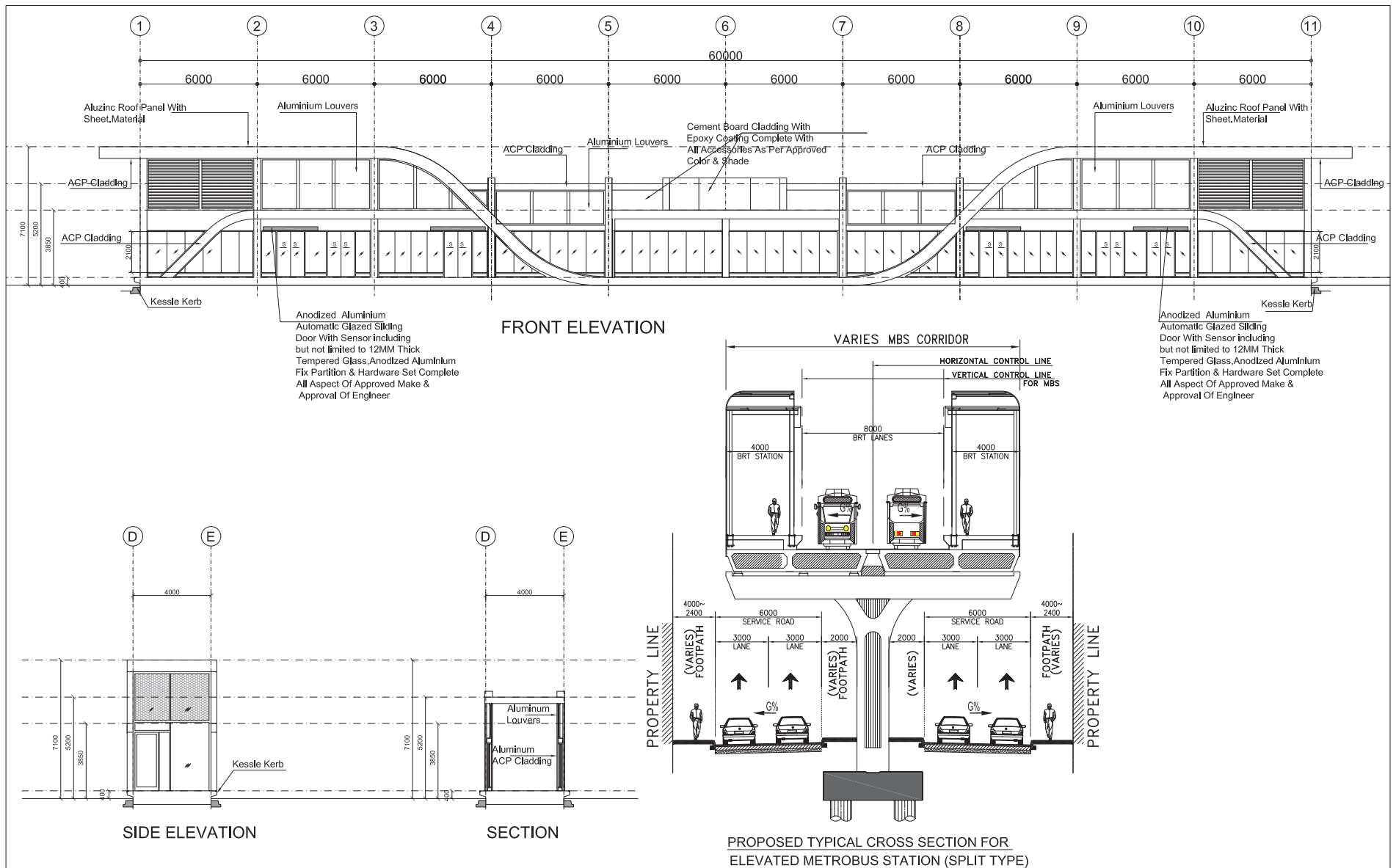
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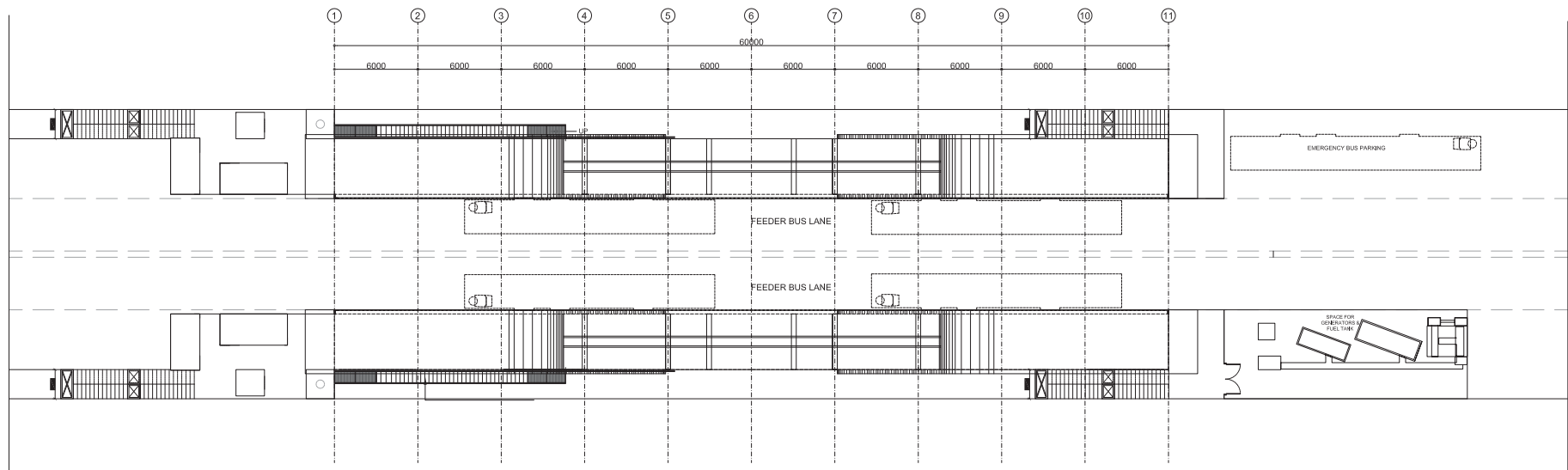


PLAN AT STATION LEVEL




CLIENT:  SINDH MASS TRANSIT CELL TRANSPORT & MASS TRANSIT DEPARTMENT GOVERNMENT OF SINDH	PROJECT CONSULTANT:  OSMANI Engineering - Architecture - Planning - Mapping - Technology	LEGENDS: 	BRT RUNWAY AT-GRADE BRT RUNWAY AT-RAMP AT-GRADE BRT STATION ELEVATED BRT STATION MIX TRAFFIC (M9)	PROJECT: INFRASTRUCTURE DEVELOPMENT OF BUS RAPID TRANSIT SYSTEM BLUE LINE SECTION: GURUMANDIR TO AL-ASIF SQUARE (M9)	DRAWING TITLE: PLAN AT STATION LEVEL (SPLIT TYPE)	DRAWN	FAHAD	Scale: 1:1000
						DESIGNED	FUAAD	CTB File Name: TGS-100
						CHECKED	FAISAL	Sheet No.
						SUBMITTED		Rev No: P0
						APPROVED		



<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL</div> <div>TRANSPORT & MASS</div> <div>TRANSIT DEPARTMENT</div> <div>GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div></div> <div>Engineering - Architecture - Planning - Mapping - Technology</div>	<div>LEGENDS:</div> <div></div> <div>BRT RUNWAY AT-GRADE</div> <div>BRT RUNWAY AT-RAMP</div> <div>BRT RUNWAY ELEVATED</div> <div>AT-GRADE BRT STATION</div> <div>ELEVATED BRT STATION</div> <div>MX TRAFFIC (M9)</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS</div> <div>RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>FRONT SIED ELEVATION</div> <div>& SECTION</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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ROOF PLAN

<div>CLIENT:</div> <div></div> <div>SINDH MASS TRANSIT CELL</div> <div>TRANSPORT & MASS</div> <div>TRANSIT DEPARTMENT</div> <div>GOVERNMENT OF SINDH</div>	<div>PROJECT CONSULTANT:</div> <div></div> <div>Engineering - Architecture - Planning - Mapping - Technology</div>	<div>LEGENDS:</div> <div></div> <div>BRT RUNWAY AT-GRADE</div> <div>BRT RUNWAY AT-RAMP</div> <div>BRT RUNWAY ELEVATED</div> <div>AT-GRADE BRT STATION</div> <div>ELEVATED BRT STATION</div> <div>MIX TRAFFIC (M9)</div>	<div>PROJECT:</div> <div>INFRASTRUCTURE DEVELOPMENT OF BUS</div> <div>RAPID TRANSIT SYSTEM BLUE LINE</div>	<div>DRAWING TITLE:</div> <div>ROOF PLAN</div> <div>(SPLIT TYPE)</div>	<div>DRAWN</div> <div>FAHAD</div> <div>Scale:</div> <div>1:1000</div>
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