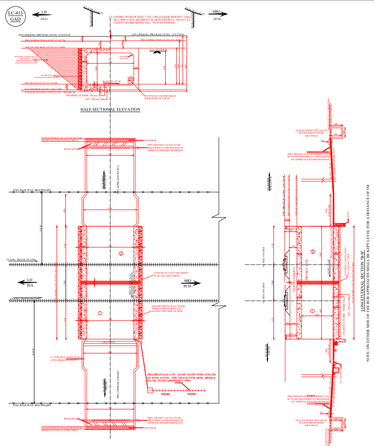
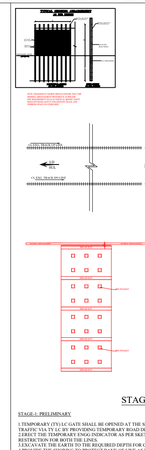
GENERAL ARRANGEMENT DRAWING





STAGE-I : PRELIMINARY

1.TEMPORARY (TV) LC GATE SHALL BE OPENED AT THE SPECIFIED LOCATION AND DIVERT THE ROAD TRAFFIC VIA TV, LC BY PROVIDING TEMPORARY ROAD DIVERSION.
2.ERECT THE TEMPORARY ENGG.INDICATOR AS PER SKETCH AND IMPOSE NON-STOP 20 KMPH SPEED RESTRICTION ON ROAD VEHICLES.
3.EXCAVATE THE EARTH TO THE REQUIRED DEPTH FOR CASTING THE RST BED AS SPECIFIED LOCATION.
4.PROVIDE THE SHORING TO PROTECT BANK OF LINE AS PER APPROVED DRAWING OF SHORING ARRANGEMENT.
5.CAST THE THRUST BED/ANCHOR WALLS WITH PIN POCKETS FOR PUSHING THE RCC BOXES AS PER APPROVED DRAWING AND CURE PROPERLY.

STAGE- II

STAGE-2 : BETWEEN TRAIN TIMINGS

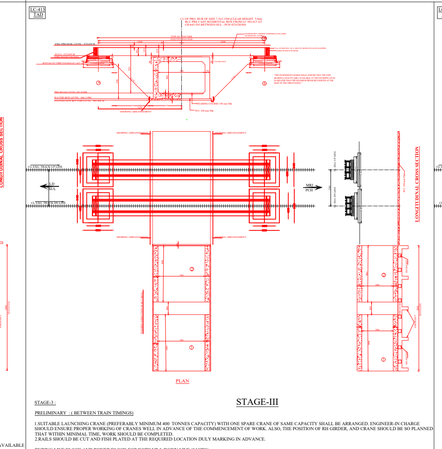
1.ENGINEER-IN-CHARGE SHOULD BE ENSURE THAT SUFFICIENT OILS, TOOLS AND PLANTS ARE AVAILABLE BEFORE COMMENCEMENT OF WORK.

2.CAST THE PRE-CAST RCC BOX OF REQUIRED SIZE ON THRUST BED AND CURE PROPERLY.

3.ADEQUATE SLOPE FOR OUTLET OF RAIN WATER FROM THE RUB TO THE NEARBY BRIDGE NO.102 IS AVAILABLE AS SHOWN ABOVE AND HENCE WATER STAGNATION ISSUE IS NOT EXPECTED TO BE ENCOUNTERED IN LC NO.413 AT KM.643.300-400 IN BETWEEN SLP-PCH STATIONS.

2.APPROVAL OF ADRM/DPC OBTAINED ON DRAINAGE CERTIFICATE VIDE NOTE NO.35 OF E-174130

TEMPORARY ARRANGEMENT DRAWING - BOX PUSHING METHOD



STAGE-I :

PRELIMINARY : (BETWEEN TRAIN TIMINGS)

1.SET ASIDE LAUNCHING CRANE (PREFERABLY MINIMUM 400 TONNES CAPACITY) WITH ONE SPARE CRANE OF SAME CAPACITY SHALL BE ARRANGED ENGINEER-IN-CHARGE SHOULD ENSURE PROPER WORKING OF CRANES WELL IN ADVANCE OF THE COMMENCEMENT OF WORK, ALSO, THE POSITION OF RB GIRDER, AND CRANE SHOULD BE SO PLANNED THAT WITHIN MINIMAL TIME, WORK SHOULD BE COMPLETED
2.RAILS SHOULD BE CUT AND FISH PLATES AT THE REQUIRED LOCATION DULY MARKING IN ADVANCE.

DURING LINE BLOCK AND POWER BLOCK FOR BOTH UP & DOWN LINE (48 HRS)

1.DISCONNECT THE 3 ARM OF BOTH UP & DOWN LINE SIMES TANDOUSLY.
2.RB GIRDER ALONG WITH CRIB ARRANGEMENTS TO BE INSERTED.
3.ENSURE THAT THERE IS NO INFRINGEMENT AND LOOSE MATER ON THE TRACK.
4.ENSURE THAT THERE IS NO INFRINGEMENT TO BRIDGE AND NO LOOSE MATERIAL ON THE TRACK AND LINK THE P-WAY AND ALLOW THE TRAFFIC AT RESTRICTED SPEED OF 20KMPH.

BETWEEN TRAIN TIMINGS (FOR BOX)

1.EXCAVATE THE EARTH TO THE REQUIRED DEPTH AT THE BOX PORTION, AND PROVIDE THE SHORING TO MAINTAIN REQUIRED EARTH SLOPE, SPREAD OF THE SAND TO MAKE EVEN SURFACE, CASTING OF THE PRECAST RCC BASE SLAB.

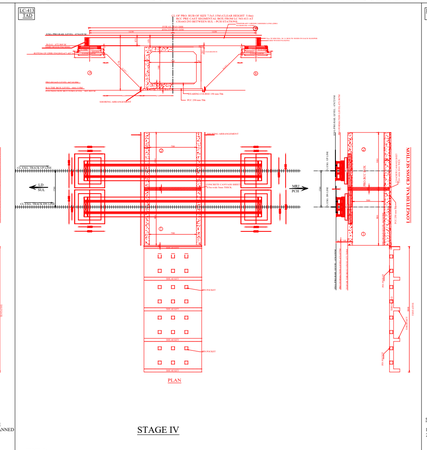
STAGE-III

DEPTH OF EXCAVATION	
EXCAVATION	1.0
SAND	0.25
PCC BASE	0.25
PCC BOX	3.0
TOP BOX PACKING	0.25
TOTAL EXCAVATION	4.75
BOX WIDTH	5.0
BOX BOX PACKING	0.25
TOTAL WIDTH	5.50

1. PROPOSED RUB IS SUFFIXED FOR 25 T (DOB LOADING)
2. ROAD LOADING AS PER TABLE 2 OF IRC-6

25t (METRICS) DETAILS		25T (IRC) TRACK DETAILS	
WHEEL WEIGHT	2.5 MT	WHEEL WEIGHT	2.5 MT
WHEEL SPACING	1.8 MT	WHEEL SPACING	1.8 MT
TYRE PRESSURE	0.8 MPa	TYRE PRESSURE	0.8 MPa

GRADE OF CONCRETE	
BOX BOX	M 30
PCC BOX	M 15 (PIN GROOVE)
PCC BASE	M 15
PIN POCKETS	M 30
STEEL FIBRE	30 KG/CUBIC METER
STEEL FIBRE	30 KG/CUBIC METER

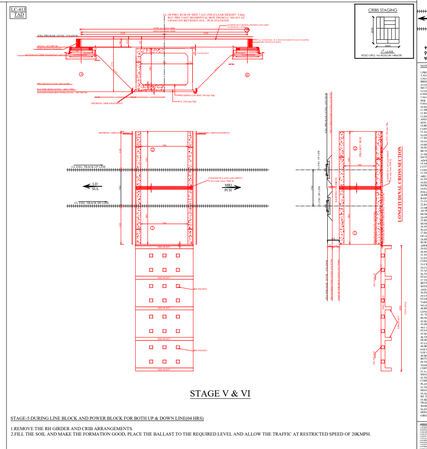


STAGE IV

STAGE-4 :

PUSHING OF BOX SEGMENTS. (BETWEEN TRAIN TIMINGS)

1.WHILE PUSHING THE BOX SEGMENTS SEPARATE LINE BLOCK WILL BE TAKEN FOR EACH LINE & PROCEDURE WILL BE REPEATED TILL THE BOX SEGMENTS ARE PUSHED TO ITS POSITION AS PER THE REQUIREMENT SHOWN IN THE DRAWING.



STAGE V & VI

STAGE-5:DURING LINE BLOCK AND POWER BLOCK FOR BOTH UP & DOWN LINE(04 HRS)

1.REMOVE THE RB GIRDER AND CRIB ARRANGEMENTS.
2.FILL THE SOIL AND MAKE THE FORMATION GOOD, PLACE THE BALLAST TO THE REQUIRED LEVEL AND ALLOW THE TRAFFIC AT RESTRICTED SPEED OF 20KMPH.

STAGE-6 :(BETWEEN TRAIN TIMINGS).

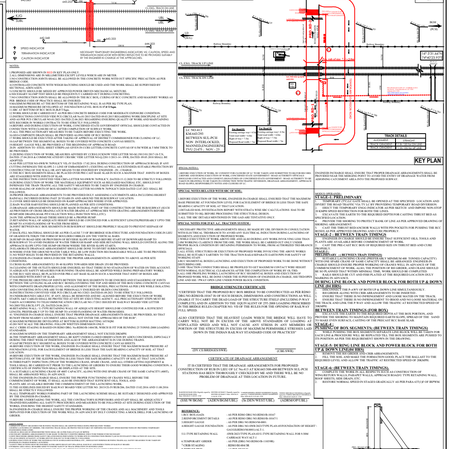
1.COMPLETE THE WORK IN ALL RESPECTS SUCH AS CONSTRUCTION OF WING/RETURN WALLS, PARAPET WALLS, APPROACH ROAD/U TYPE RETAINING WALL, ROOF SHEETS, SIDE DRAIN, ETC.
2.RESTORE NORMAL SPEED IN ST AGES GRADUALLY AS PER PARA 437(1) OF IRPWM.

LOADS PART FOR 400T TROLLEY(CRANE CAPACITY 400T)						
	LOADS					
Working radius (m)	12.0m	16.0m	17.5m	20.0m	22.0m	24.5m
3.0	400	-	-	-	-	-
4.0	350	-	-	-	-	-
5.0	316	-	-	-	-	-
6.0	256	161	143	117	107	-
7.0	206	146	143	113	86	73
8.0	141	132	132	112	106	80	69
9.0	104	102	101	102	102	80	69
10.0	104	101	101	101	80	66	59
12.0	-	82	79	81	79	64	57
14.0	-	65	66	63	62	54	47

"I/ IS CERTIFIED THAT WEIGHT OF TEMPORARY GIRDER IS 72 T (BINO) BY USING 400 T CAPACITY CRANE WITH DULY ADOPTING 12.0 M RADIUS & 16.0 M BOOM LENGTH. THE WEIGHT LIFTING CAPACITY WILL BE 70 T, WHICH IS GREATER THAN THE 1.5 TIMES THE WEIGHT OF TEMPORARY GIRDER"

VAMSIKRISHNA REDDY KESIREDDY Digitally signed by VAMSIKRISHNA REDDY KESIREDDY Date: 2026.04.23 12:12:11 +5'30'

[DR DNM/METRO/C]



Signature Not Verified
Digitally signed by VAMSHIKRISHNA REDDY KESIREDDY
Date: 2026.04.15 18:20:16 IST
Reason: IRPS-CRIS
Location: New Delhi