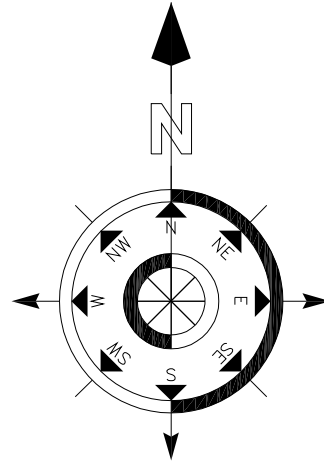
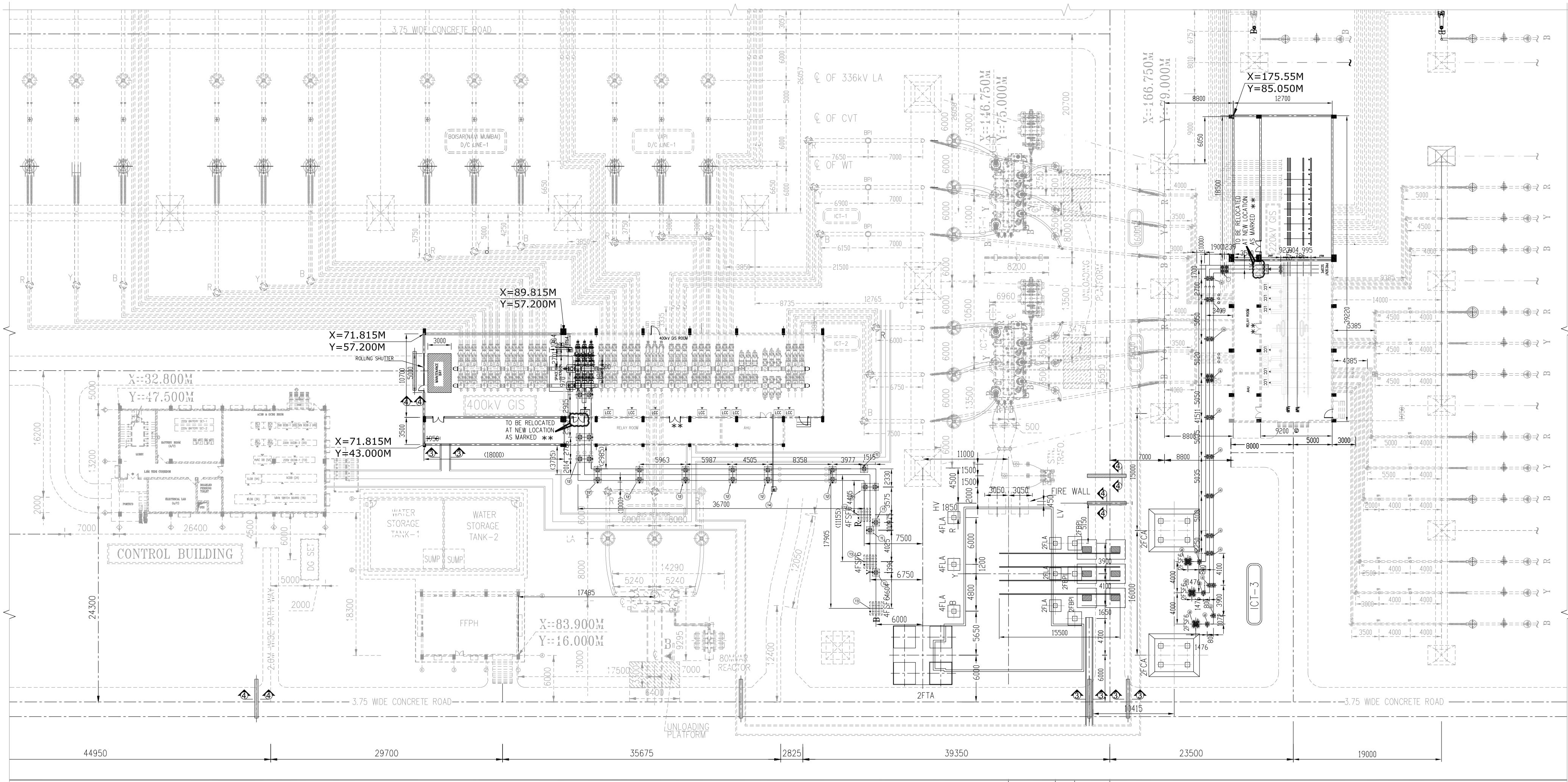


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BILL OF QUANTITY FOR 400/220kV EQUIPMENT FOUNDATIONS:

SL No.	FDN MARK	DESCRIPTION	QTY.	REFER. DRAWING NO.
1.	4FLA	FOUNDATION FOR 400kV LIGHTING ARRESTOR	03	C/ENGG/STD/EQP/FDN/01
2.	4FSF6	FOUNDATION FOR 400kV SF6 BUSHING	03	HI-16-4036-A03-01
3.	2FLA	FOUNDATION FOR 220kV LIGHTING ARRESTOR	03	C/ENGG/STD/EQP/FDN/02
4.	2FBPI	FOUNDATION FOR 220kV BUS POST INSULATOR	03	C/ENGG/STD/EQP/FDN/02
5.	--	FOUNDATION FOR 500MVA, 400/220/33kV TRAFO.	01	C/ENGG/KALA/500/T&R/TRF/FDN/01
6.	2FSF6	FOUNDATION FOR 220kV SF6 BUSHING	03	HI-16-2036-A03-01

BILL OF QUANTITY FOR 400/220kV TOWER FOUNDATIONS:

SL No.	FDN MARK	DESCRIPTION	QTY.	REFER. DRAWING NO.
1.	4FTA	FOUNDATION FOR 400kV TOWER TYPE 'TA'	01	C/ENGG/STD/TOW/FDN/02
2.	2FCA	FOUNDATION FOR 220kV TOWER TYPE 'CA'	02	C/ENGG/STD/TOW/FDN/02

BILL OF QUANTITY FOR TRENCH MATERIALS:

SL No.	DESCRIPTION	QTY.
1.	110mm DIA PVC PIPE	20 mtr.
2.	50X6mm M.S. FLAT	20 mtr.

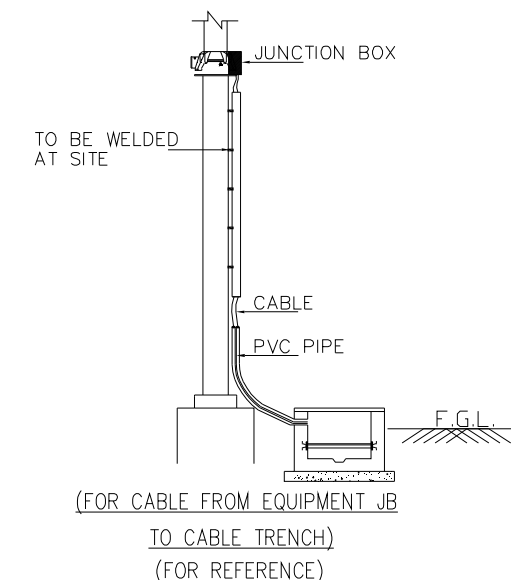
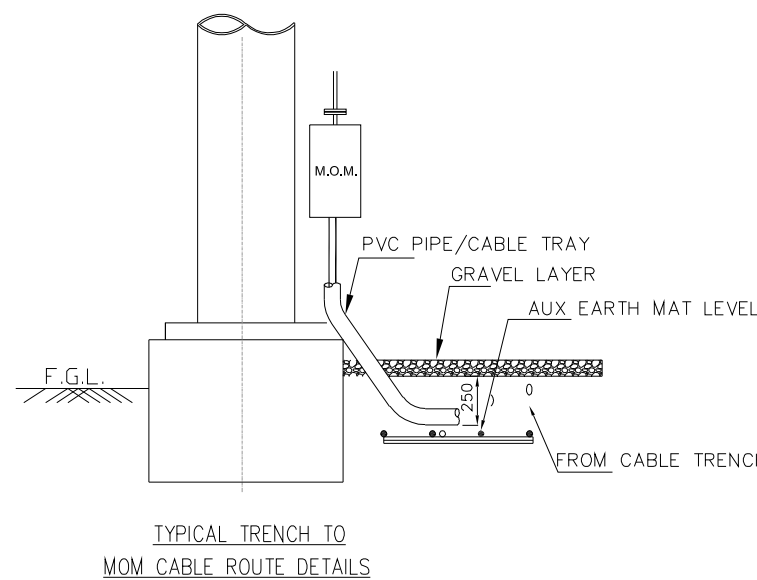
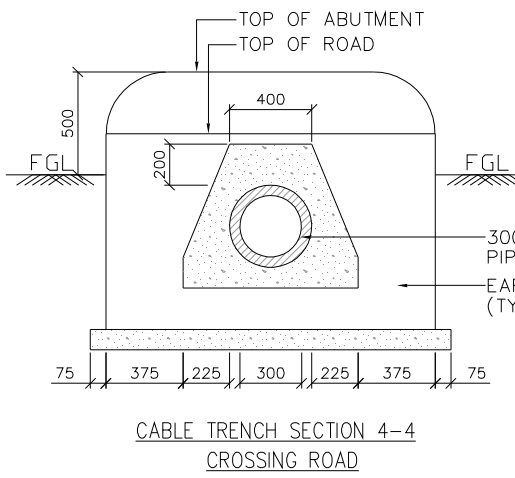
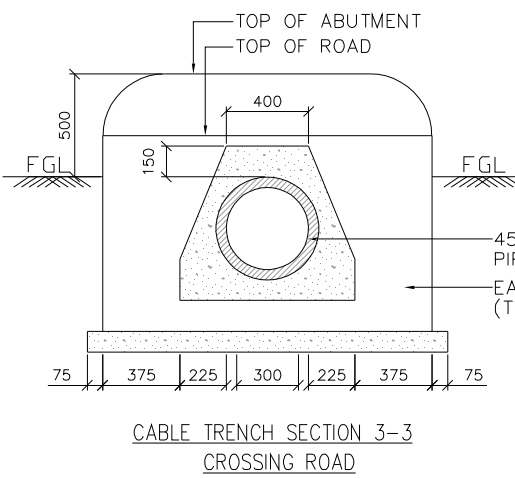
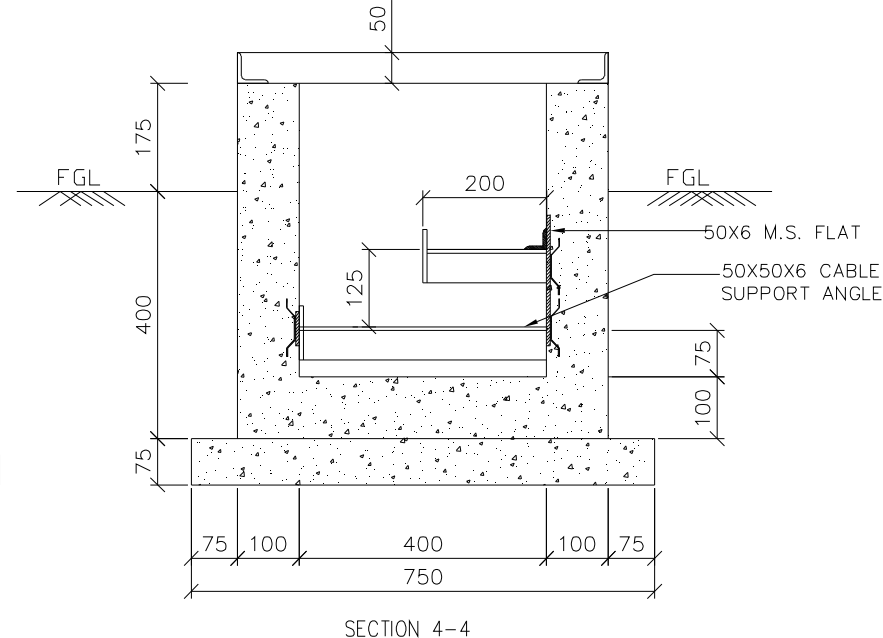
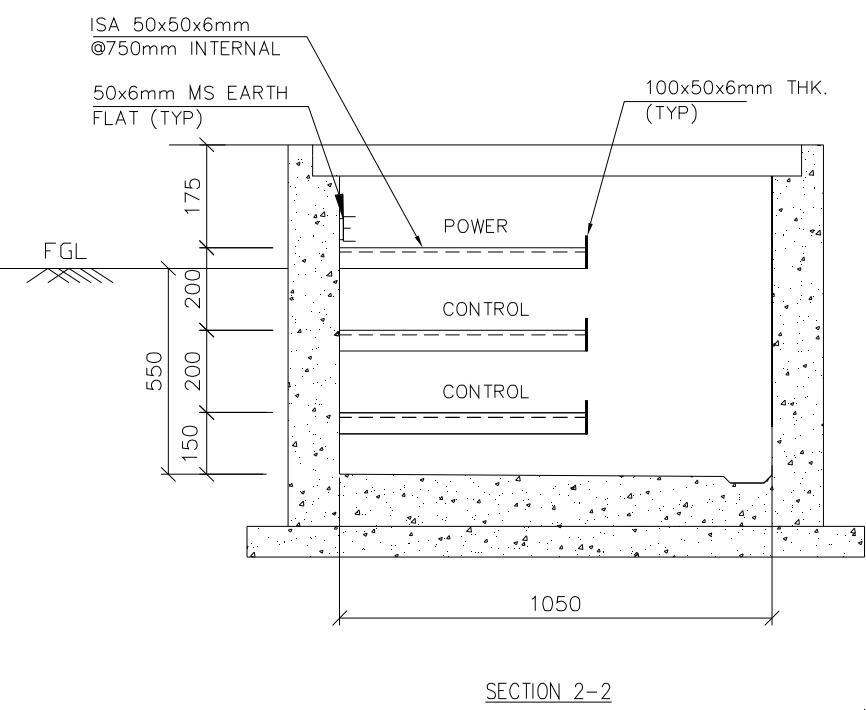
NOTES:-

- ALL DIMENSION ARE IN mm, UNLESS OTHERWISE SPECIFIED.
- (±)0.00M CORRESPOND TO F.G.L. (FINISH GROUND LEVEL).
- OUTLINE OF COULMINS AND EQUIPMENT FOUNDATIONS ARE INDICATIVE ONLY. FOR DETAILS REFER CIVIL FOUNDATION DRAWING.
- WHEREVER EQUIPMENT RAFT SHALL COME IN THE BACK FILLING IN ADJACENT TO TOWER FOUNDATION, THE SOIL IN BETWEEN THE TOWER RAFT TOP AND PCC BOTTOM OF EQUIPMENT IN THE OVER LAPPING AREA SHALL BE WELL COMPACTED IN LAYERS UPTO 95% OF PROCTOR DENSITY.
- NO FOUNDATION SHALL REST ON FILLED UP SOIL. IN CASE FILLED UP SOIL IS ENCOUNTER, THE FOUNDATION SHALL BE TAKEN 100mm BELOW VIRGIN SOIL FOR TOWERS & 500mm BELOW VIRGIN SOIL FOR EQUIPMENT FOUNDATIONS.
- THIS DRAWING SHALL BE REFERRED ONLY FOR FOUNDATION PURPOSE IN CONJUNCTION WITH ELECTRICAL LAYOUT PLAN.
- LAYOUT SHALL BE DONE ONLY AFTER CO-ORDINATING LATEST APPROVED S/Y PLAN & DISCREPANCY IF ANY SHALL BE BROUGHT TO NOTICE BEFORE EXECUTION.
- WHILE CONSTRUCTION OF TOWER /EQUIPMENT FOUNDATIONS PROPER STRUTTING & SHORING HAD TO BE ENSURED AT SITE TO AVOID COLLAPSE OF EXISTING TOWER /EQUIPMENT FOUNDATIONS & CABLE TRENCH FOUNDATION /WALL.

GIS REFER. DRAWING No.:

- HI-16-4036-A02-01/02 400kV GIS LAYOUT (OVERALL VIEW)  
HI-16-2036-A02-01/02 220kV GIS LAYOUT (OVERALL VIEW)

400kV SIDE ← ● → 220kV SIDE



G&B-SS01-KAL-E-LAY-002  
C/ENGG/WR/WRSS-17/KALA/SLD/400kV/01  
011244-E-IS-SY-EL-0003\_REV.0(AS BUILT DRG)

400/220kV LAYOUT PLAN & SECTION  
SINGLE LINE DIAGRAM  
400/220kV GIS OVERALL LAYOUT PLAN & SECTION

LEGEND:-  
- PRESENT SCOPE  
- EXISTING/FUTURE  
- EXISTING FENCE  
- EXISTING CABLE TRENCH  
- CABLE TRENCH (PRESENT SCOPE)

REV.	DESCRIPTION	AS BUILT	AS	GSR	VDSP	FOR APPROVAL
R2	REVISED AS PER PCCIL COMMENT	Date 12.02.19	Name YGB	Name GSR	Name VDSP	
R1	REVISED AS PER PCCIL COMMENT	Date 13.03.18	Name YGB	Name GSR	Name VDSP	
R0	FIRST ISSUE	Date 07.09.17	Name YGB	Name GSR	Name VDSP	
REV.	DESCRIPTION	DATE	NAME	NAME	NAME	STATUS

CLIENT: POWERGRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise) "Saudamani" Plot No-2, Sector-29, Gurgaon-122001, Haryana		PROJECT: SUBSTATION PACKAGE - SS01:- EXTENSION OF 400/220kV KALA GIS S/S UNDER WESTERN REGION STRENGTHENING SCHEME -17	
NAME OF SUBSTATION: 400/220kV KALA GIS		NOA No.: CC-CS/731-WR2/GIS-3382/3/GI/NOA-II/7173 & 7174 Dated 27.02.2017	
FOUNDATION AND CABLE TRENCH LAYOUT		DRAWING No. G&B-SS01-KAL-C-FDN-001	
GODREJ & BOYCE MFG. CO. LTD. PIROUSHANAGAR, VIKROLI WEST, MAHARASTRA (INDIA).		TOTAL SH. 001 SCALE 1:250 SH.No. 001 REV. R2	