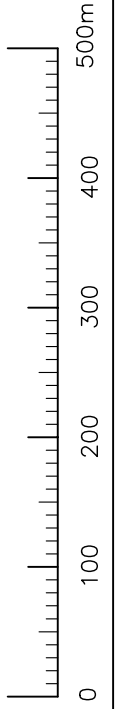


FIGURE 2.1

SITE PLAN
SURFACE MODULAR VAULT



FOR SECTIONS SEE SHEET 2.

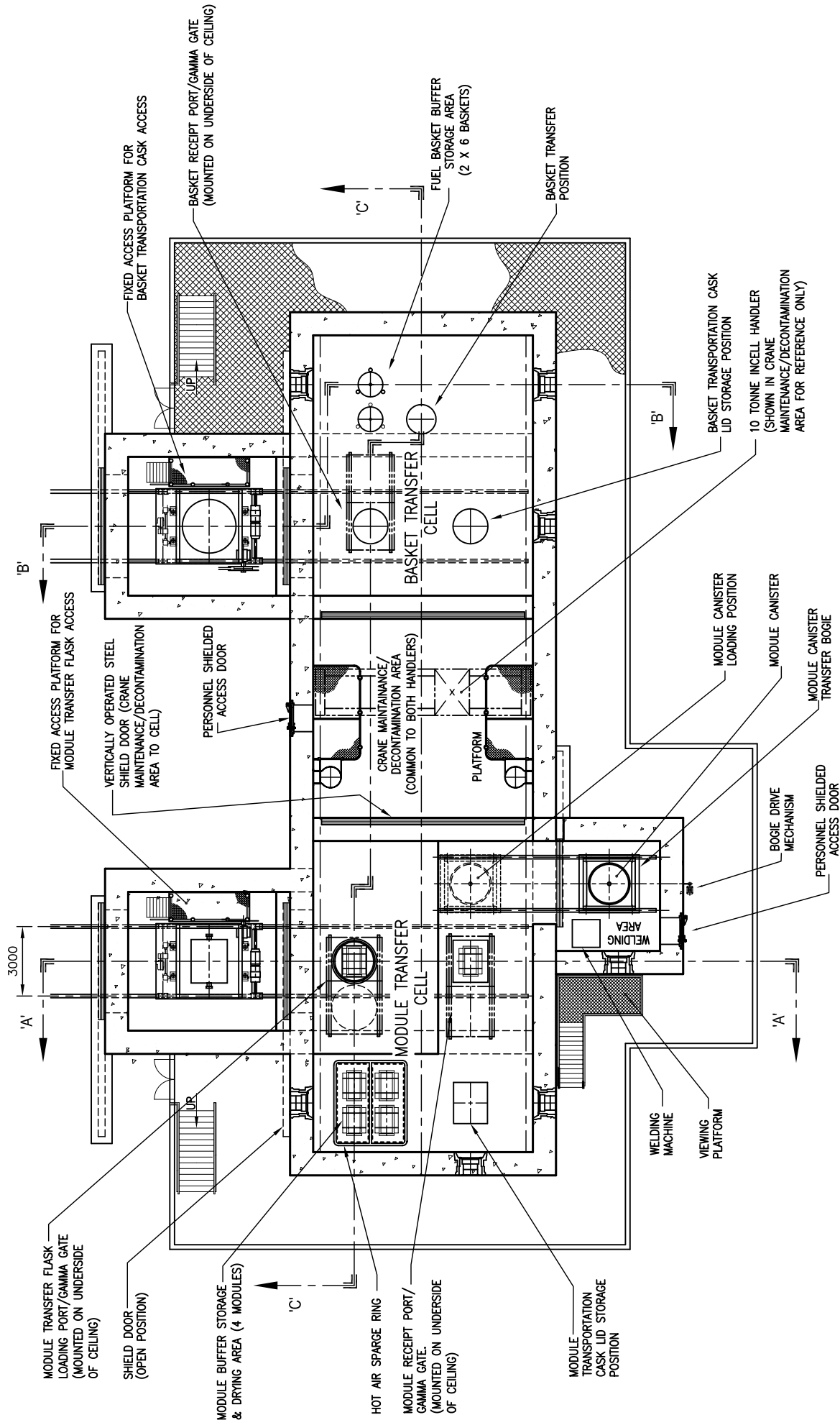
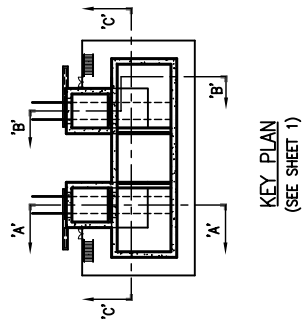
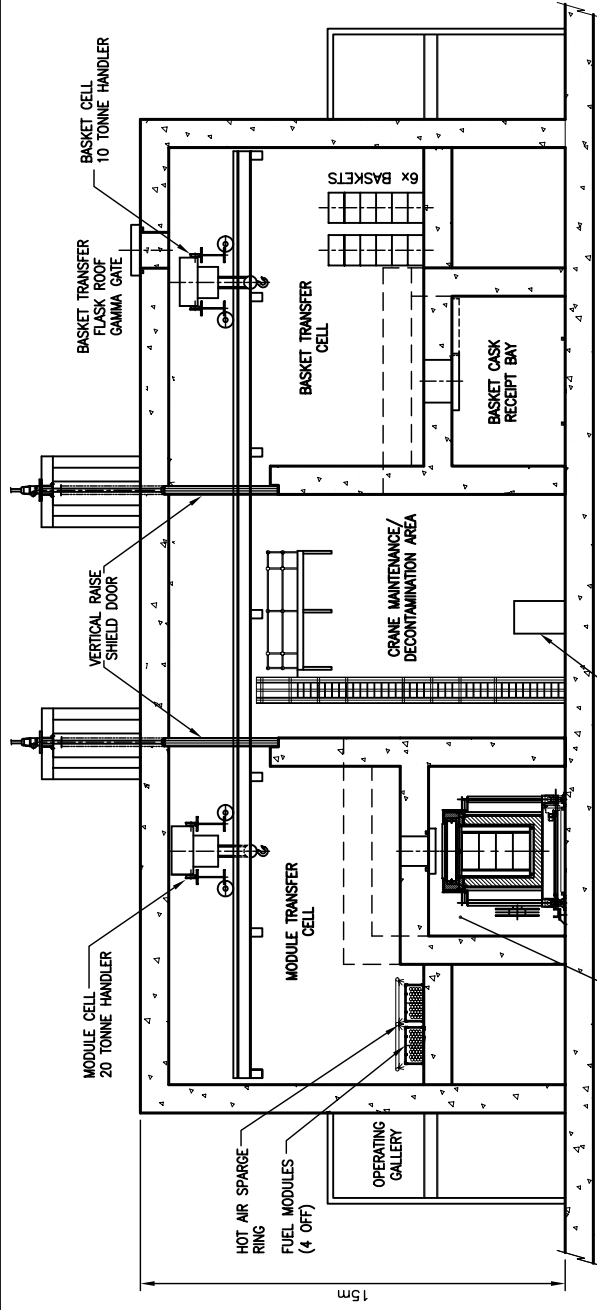
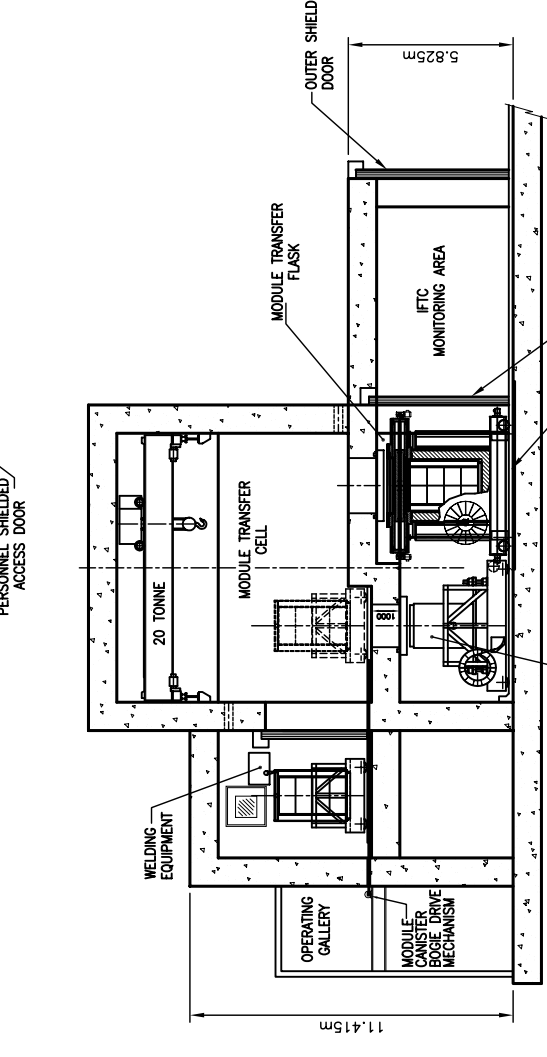


FIGURE 2.2
SHIELDED CELL LAYOUT
SURFACE MODULAR VAULT.

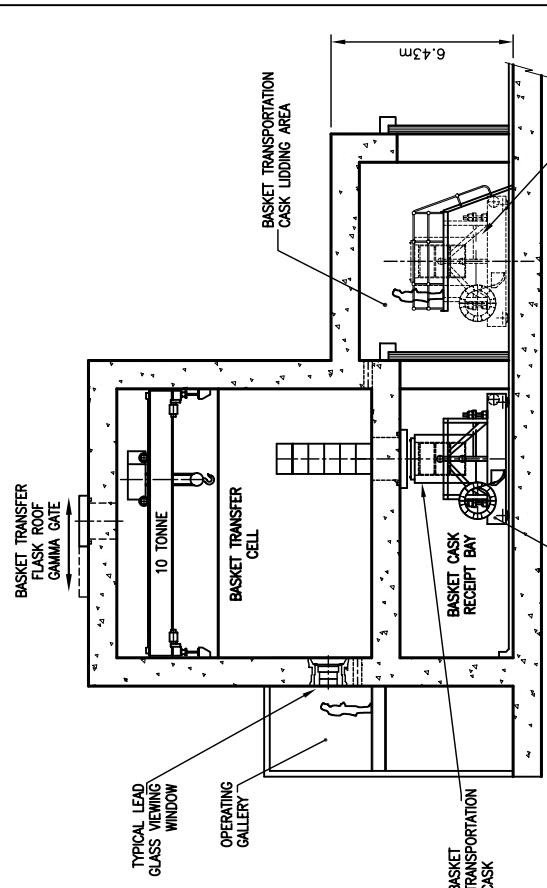




SECTION 'C-C'



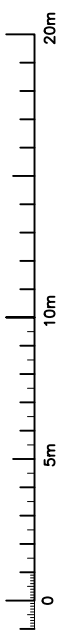
SECTION 'A-A' (MODULE CELL)



SECTION 'B-B' (BASKET CELL)

FIGURE 2.3

SHIELDED CELL LAYOUT SECTIONS. SURFACE MODULAR VAULT.



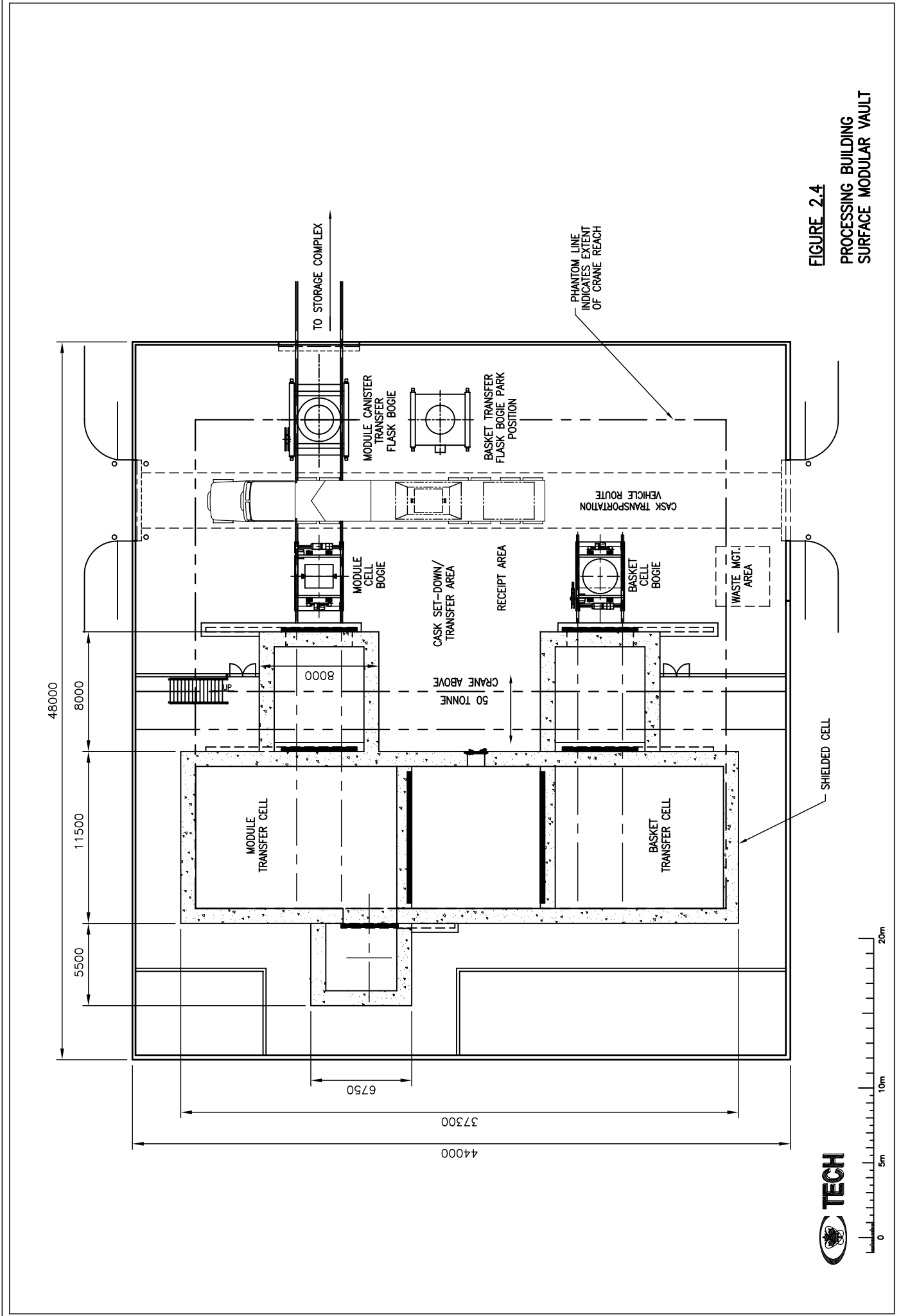
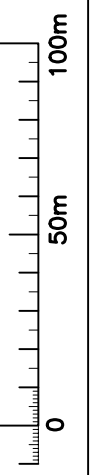
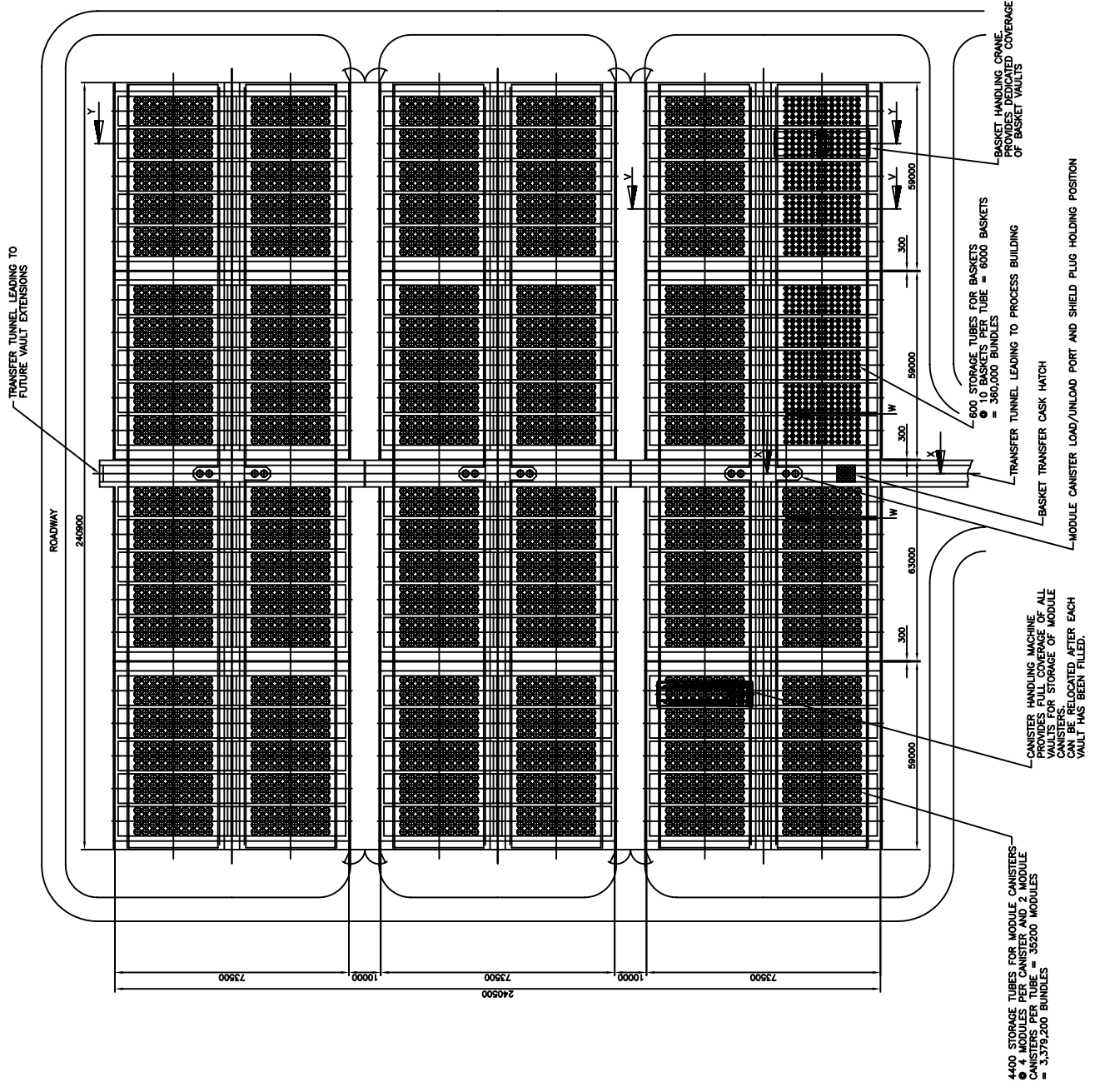
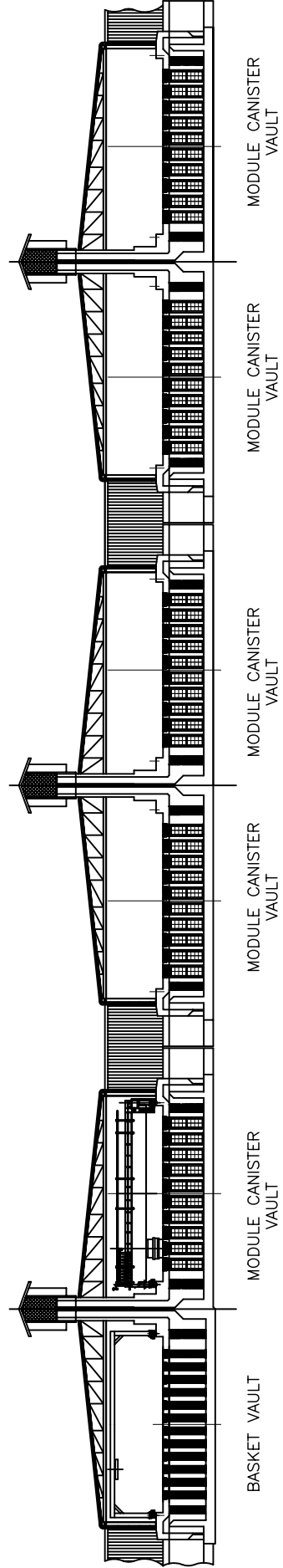


FIGURE 2.4
PROCESSING BUILDING
SURFACE MODULAR VAULT

FIGURE 2.5
SURFACE MODULAR VAULT
STORAGE COMPLEX PLAN





SECTION 'Y-Y'
FROM FIG. 2.5

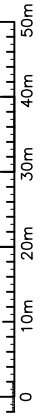
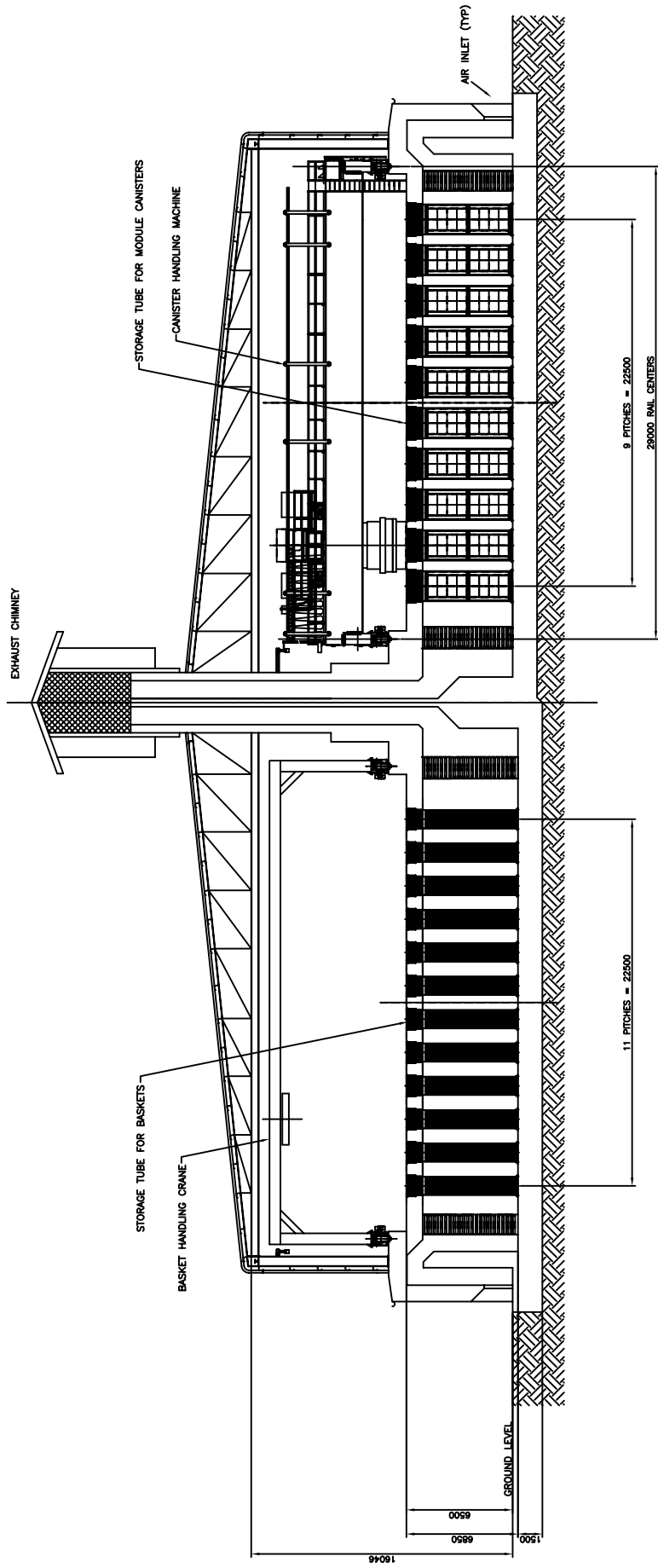


FIGURE 2.6
SURFACE MODULAR VAULT
STORAGE COMPLEX
SECTIONAL ELEVATION



SECTION 'V-V'
FROM FIG. 2.5

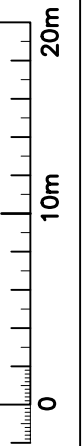
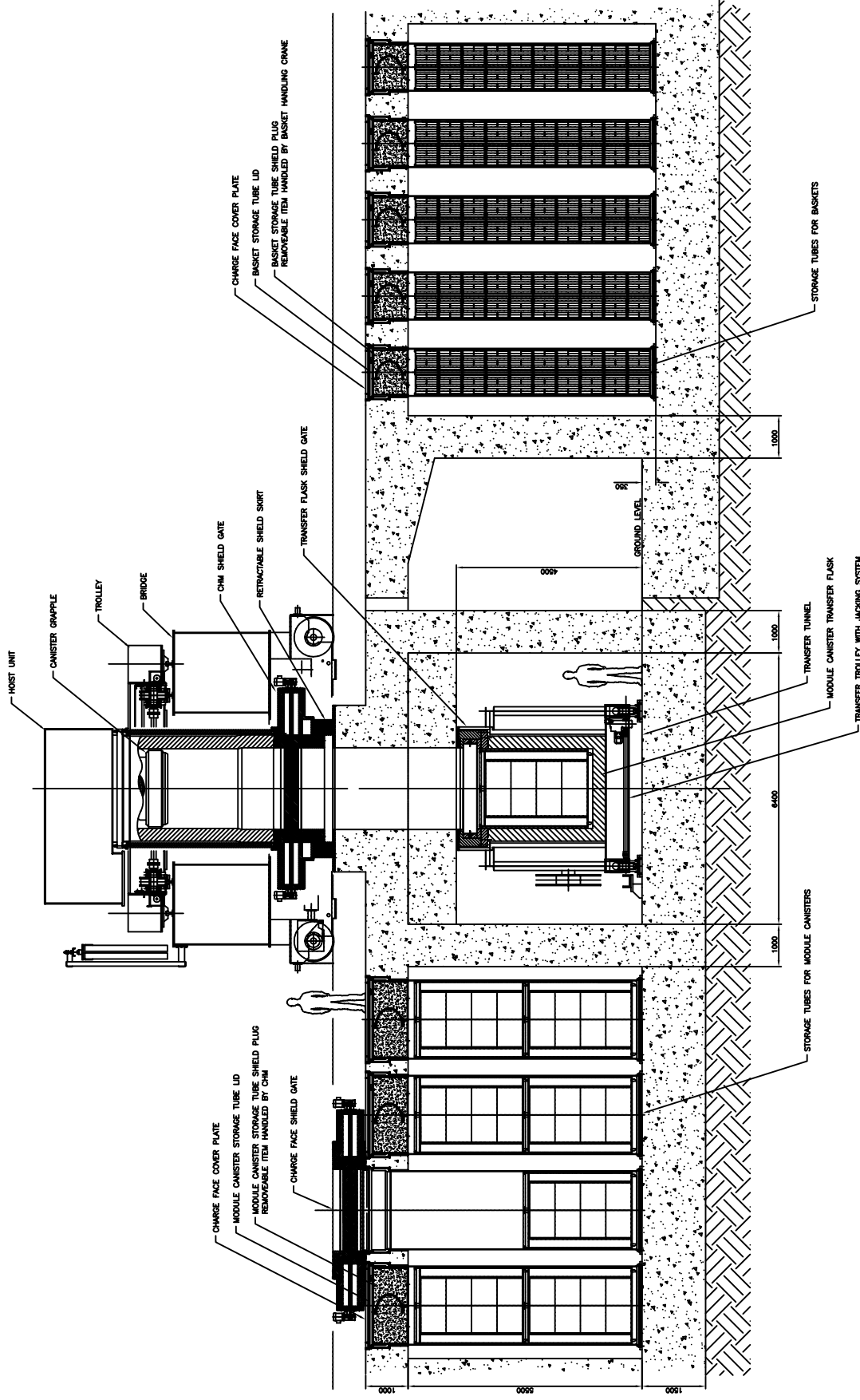


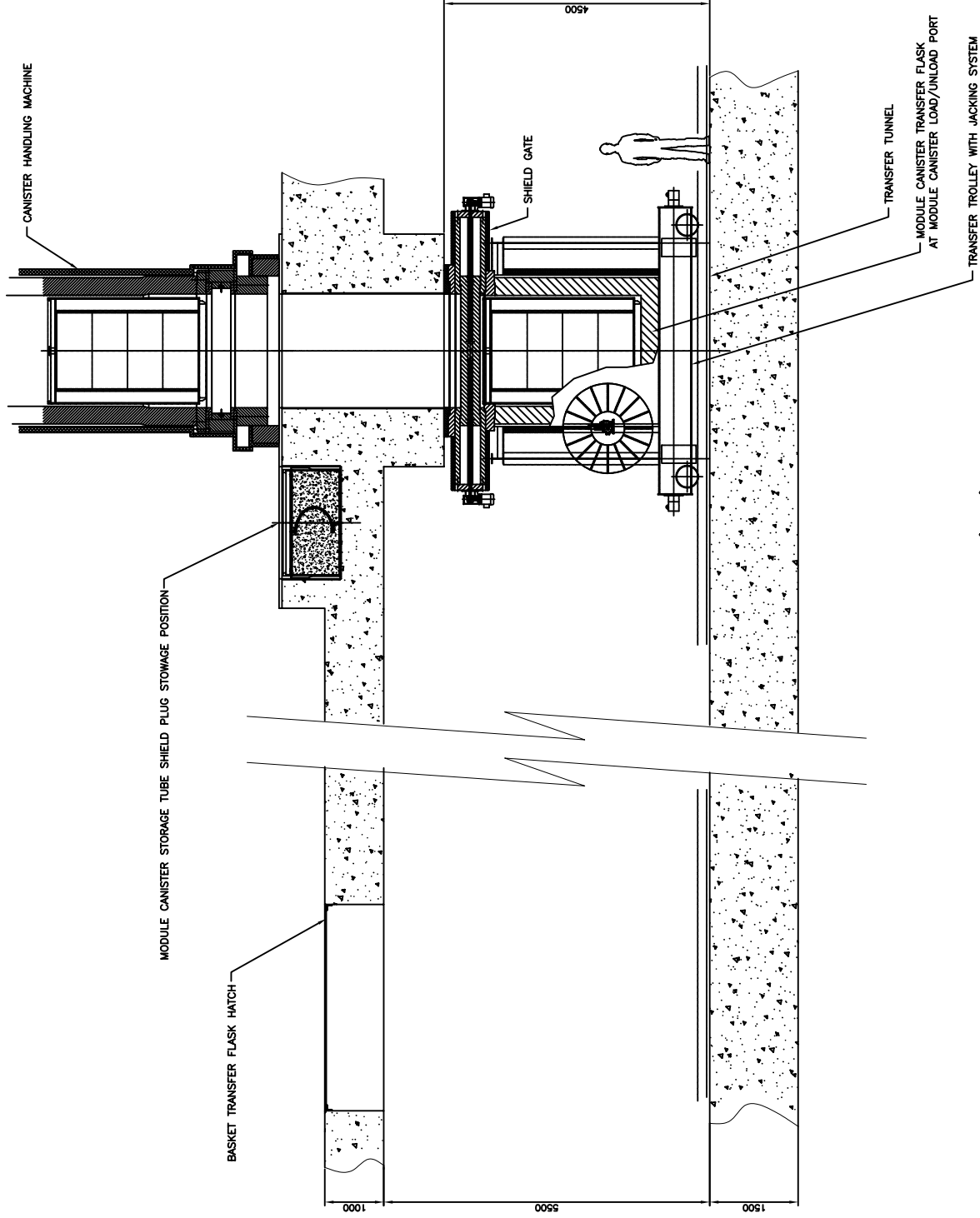
FIGURE 2.7
SURFACE MODULAR VAULT
STORAGE COMPLEX
SECTIONAL ELEVATION



SECTION 'W-W'
FROM FIG. 2.5

FIGURE 2.8
SURFACE MODULAR VAULT
STORAGE COMPLEX
PART SECTIONAL ELEVATION





SECTION 'X-X'
FROM FIG. 2.5

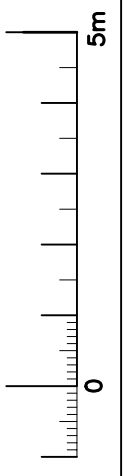
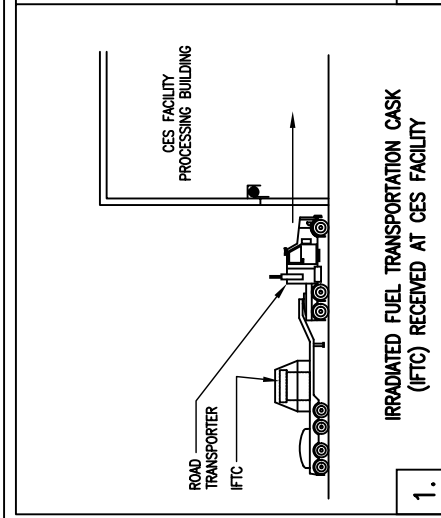
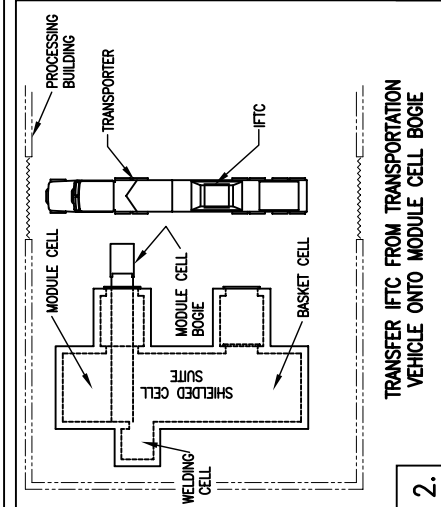


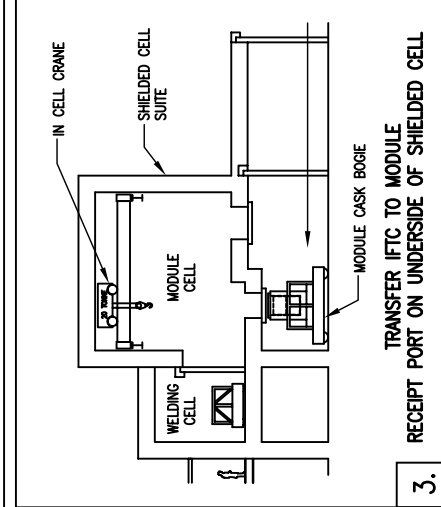
FIGURE 2.9
SURFACE MODULAR VAULT
STORAGE VAULT
PART SECTIONAL ELEVATION



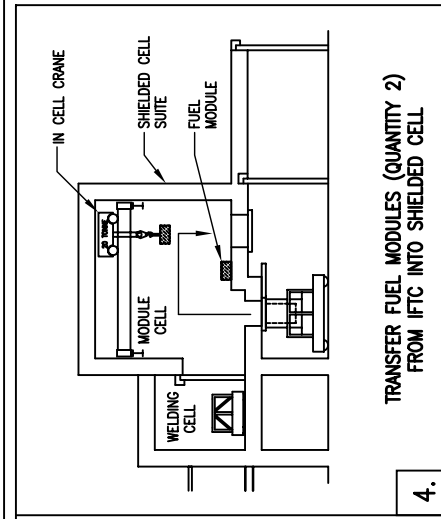
1. IRRADIATED FUEL TRANSPORTATION CASK (IFTC) RECEIVED AT CES FACILITY



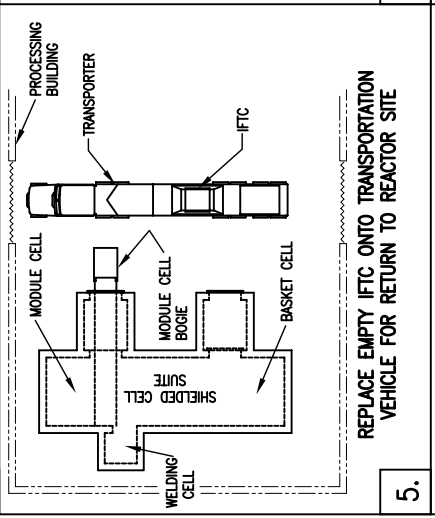
2. TRANSFER IFTC FROM TRANSPORTATION VEHICLE ONTO MODULE CELL BOGIE



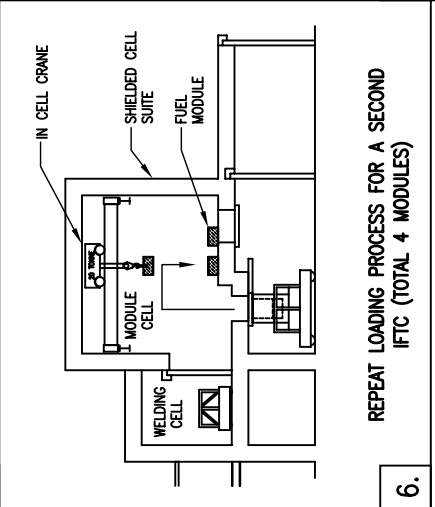
3. RECEIPT PORT ON UNDERSIDE OF SHIELDED CELL



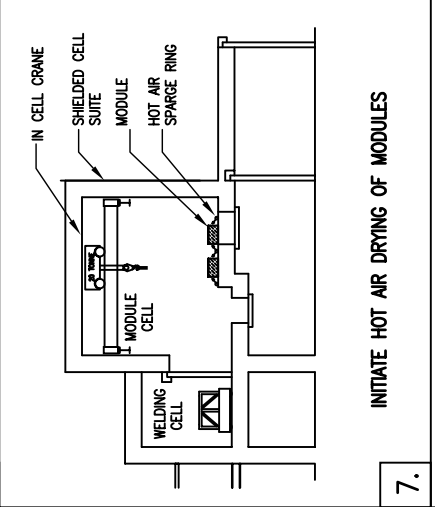
4. TRANSFER FUEL MODULES (QUANTITY 2) FROM IFTC INTO SHIELDED CELL



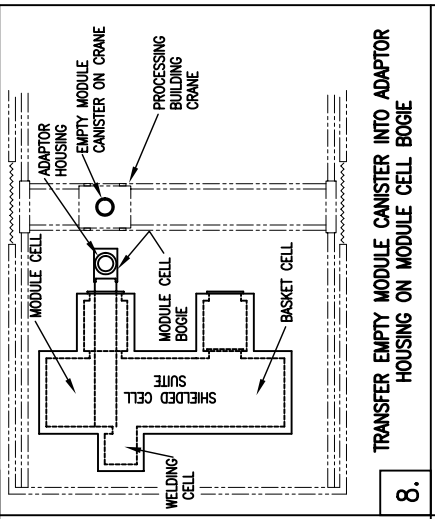
5. REPLACE EMPTY IFTC ONTO TRANSPORTATION VEHICLE FOR RETURN TO REACTOR SITE



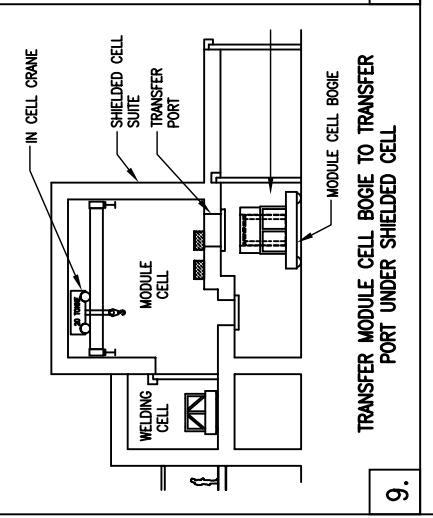
6. REPEAT LOADING PROCESS FOR A SECOND IFTC (TOTAL 4 MODULES)



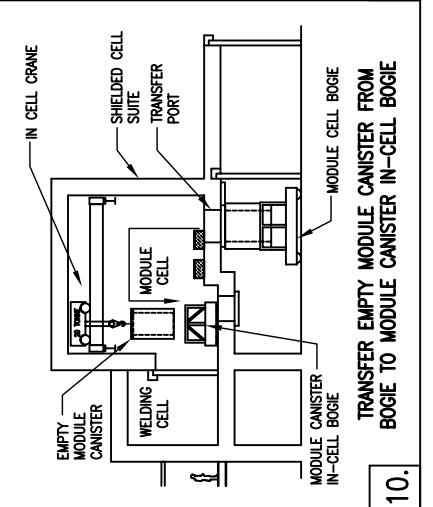
7. INITIATE HOT AIR DRYING OF MODULES



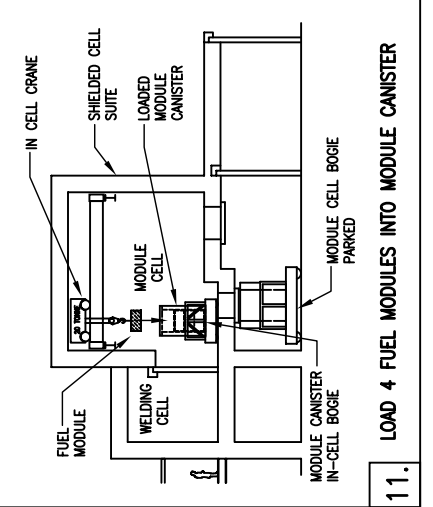
8. TRANSFER EMPTY MODULE CANISTER INTO ADAPTOR HOUSING ON MODULE CELL BOGIE



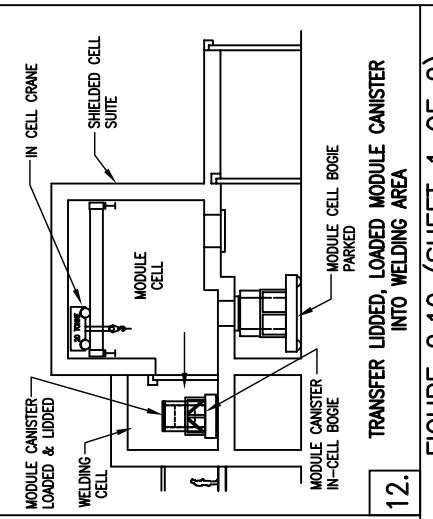
9. TRANSFER MODULE CELL BOGIE TO TRANSFER PORT UNDER SHIELDED CELL



10. TRANSFER EMPTY MODULE CANISTER FROM BOGIE TO MODULE CANISTER IN-CELL BOGIE



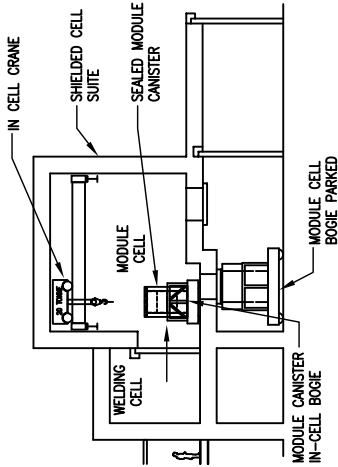
11. LOAD 4 FUEL MODULES INTO MODULE CANISTER



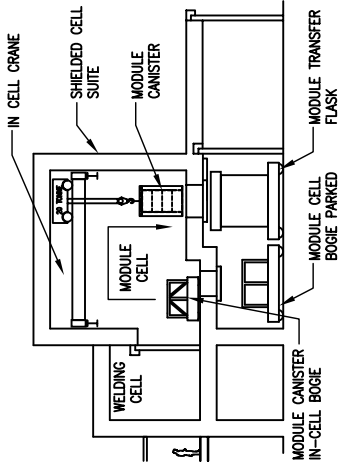
12. TRANSFER LOADED, LOADED MODULE CANISTER INTO WELDING AREA

FIGURE 2.10 (SHEET 1 OF 2)
SEQUENCE DIAGRAM
SURFACE MODULAR VAULT
MODULE OPERATIONS

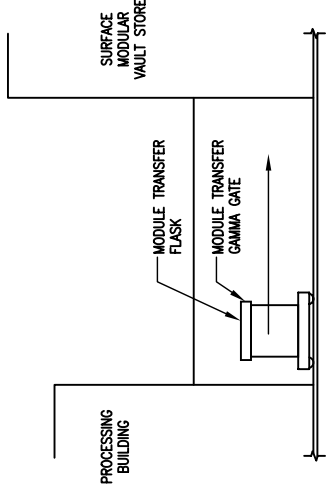




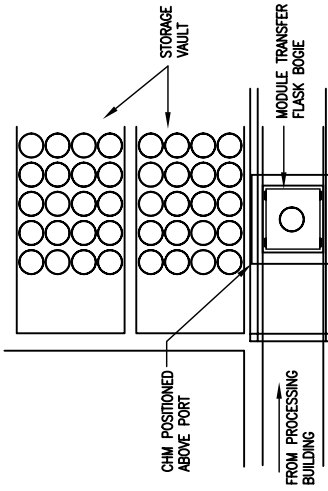
13. TRANSFER SEALED MODULE CANISTER BACK INTO MAIN CELL



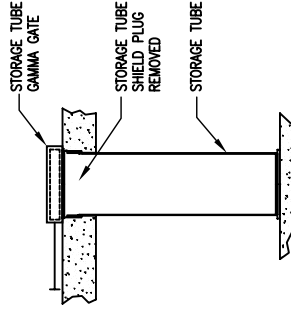
14. LOWER LIDDED, SEALED MODULE CANISTER INTO MODULE TRANSFER FLASK



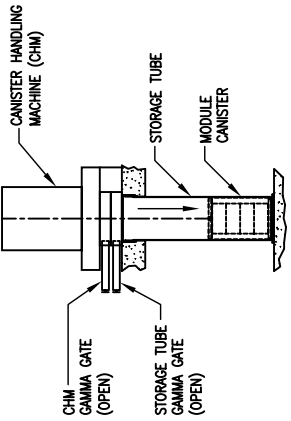
15. TRANSFER CANISTER MODULE TRANSFER FLASK FROM PROCESSING BUILDING TO STORE TUNNEL



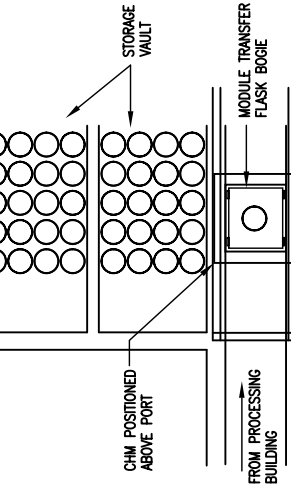
16. POSITION MODULE TRANSFER FLASK AND BOGIE BELOW SMV CANISTER HANDLING MACHINE



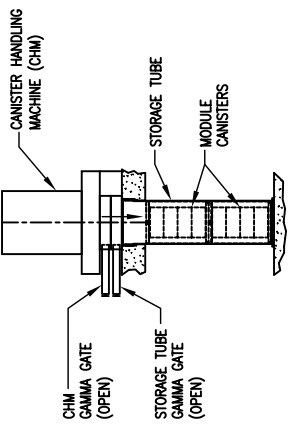
17. MODULE CANISTER VAULT STORAGE TUBE READY FOR LOADING



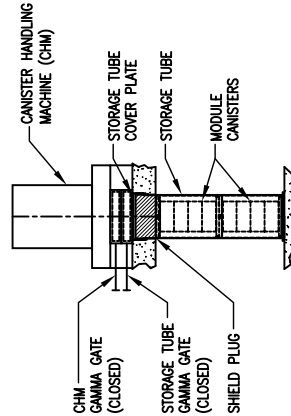
18. LOAD MODULE CANISTER INTO STORAGE TUBE USING CANISTER HANDLING MACHINE (CHM)



19. REPEAT MODULE CANISTER PRODUCTION OPERATIONS & TRANSFER MODULE FLASK & BOGIE TO STORAGE VAULT



20. LOAD SECOND MODULE CANISTER INTO STORAGE TUBE USING CANISTER HANDLING MACHINE



21. REINSTALL STORAGE TUBE SHIELD PLUG IN STORAGE TUBE AND INSTALL STORAGE TUBE COVER PLATE

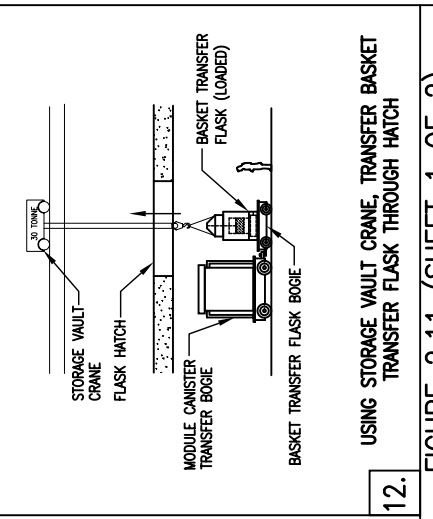
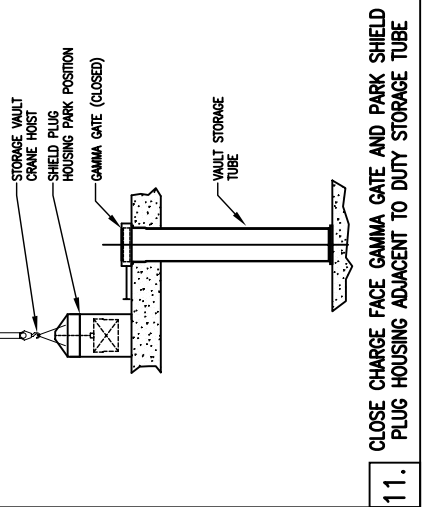
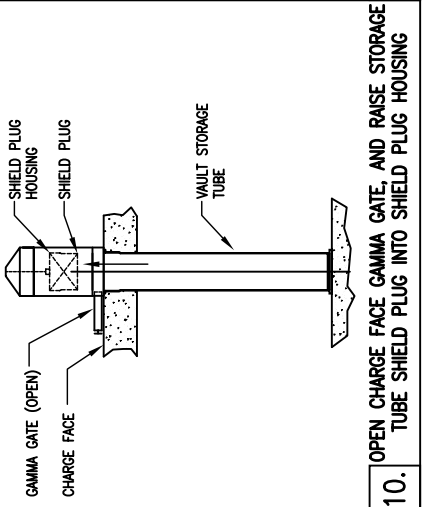
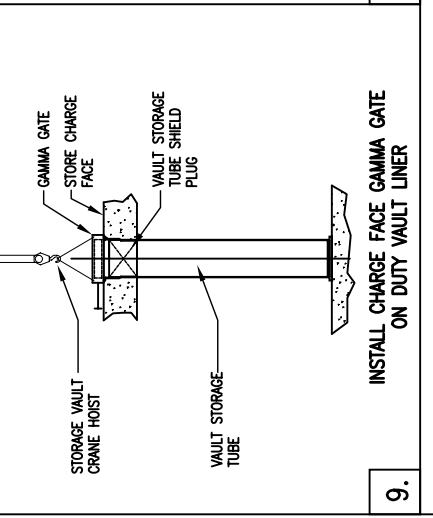
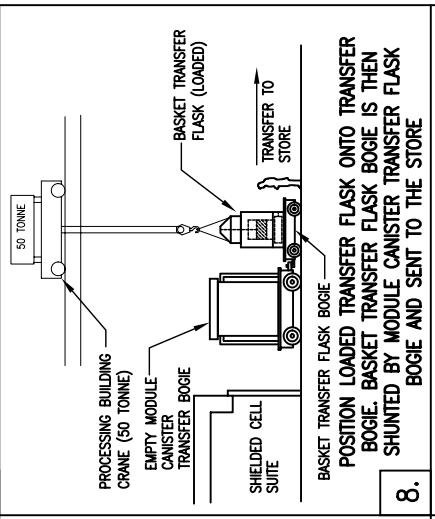
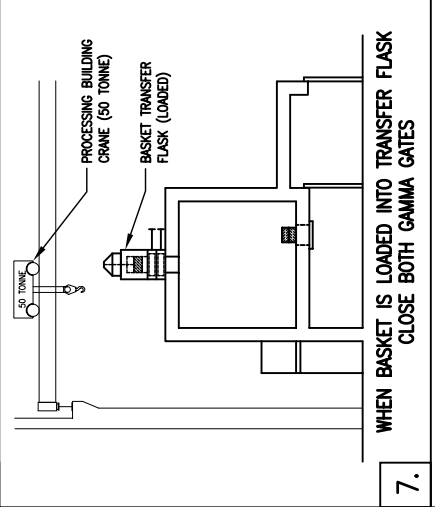
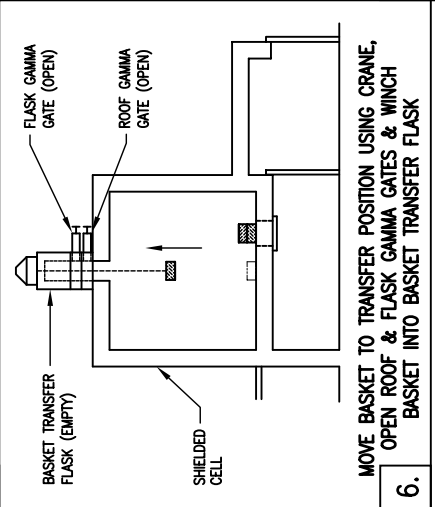
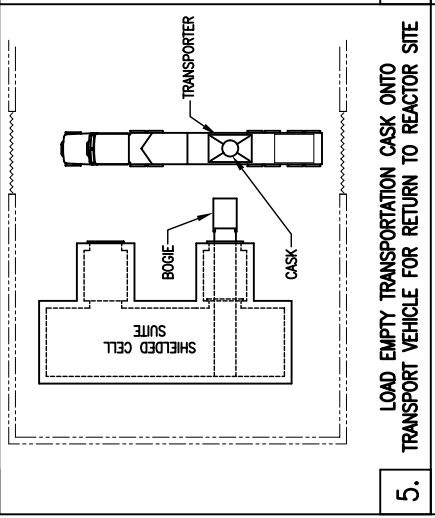
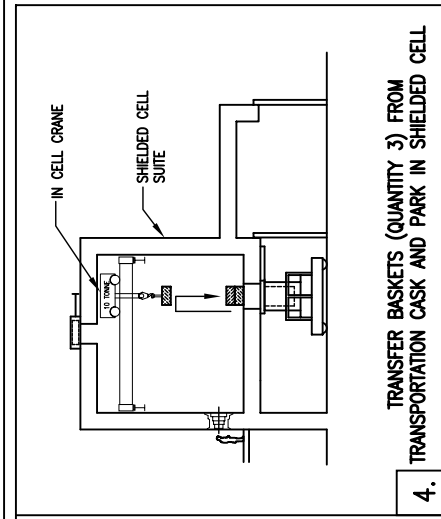
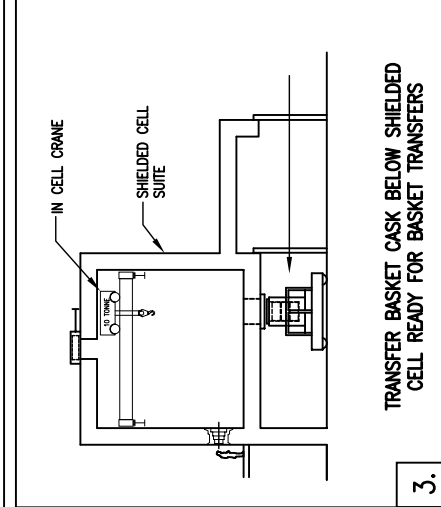
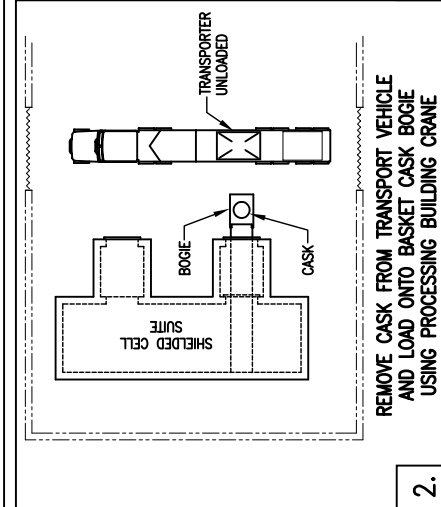
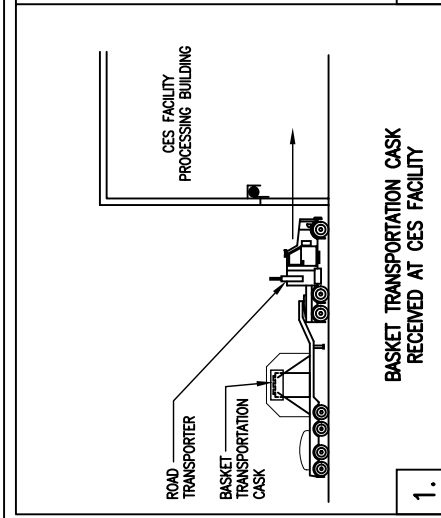
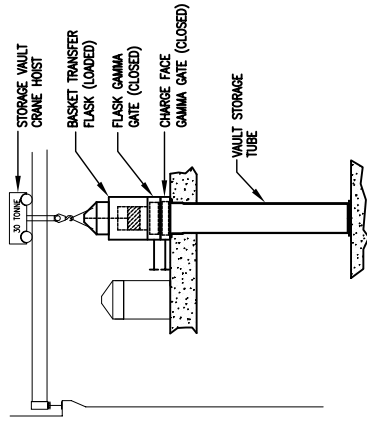
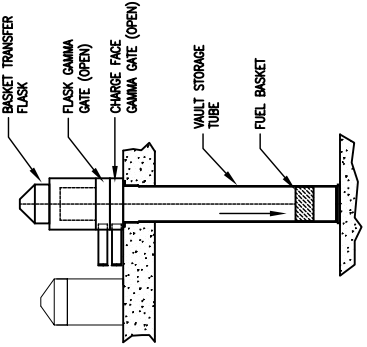


FIGURE 2.11 (SHEET 1 OF 2)
SEQUENCE DIAGRAM
SURFACE MODULAR VAULT
BASKET OPERATIONS

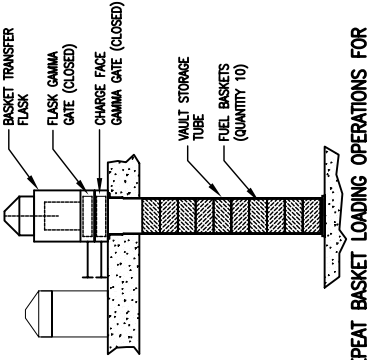




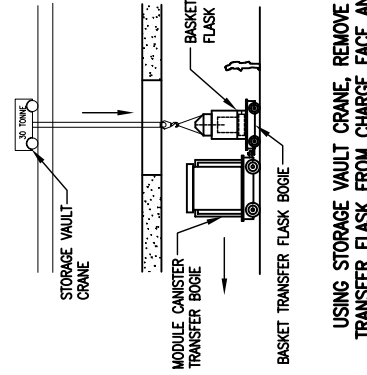
13. INSTALL BASKET TRANSFER FLASK ONTO CHARGE FACE GAMMA GATE



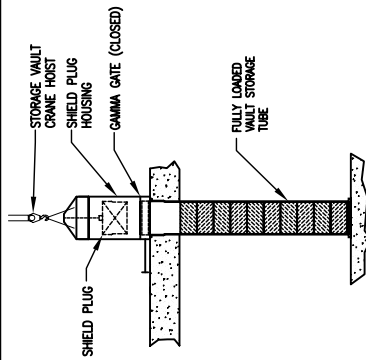
14. LOWER FUEL BASKET INTO VAULT STORAGE TUBE



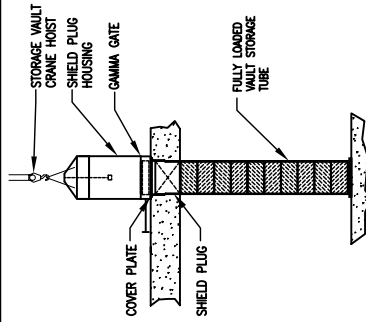
15. REPEAT BASKET LOADING OPERATIONS FOR FURTHER 9 BASKETS INTO STORAGE TUBE (10 BASKETS IN TOTAL). CLOSE GAMMA GATES



16. USING STORAGE VAULT CRANE, REMOVE BASKET TRANSFER FLASK FROM CHARGE FACE AND LOWER THROUGH FLASK HATCH ONTO BASKET TRANSFER FLASK BOGIE. SEND BACK TO PROCESS BUILDING



17. REPLACE SHIELD PLUG HOUSING ONTO GAMMA GATE



18. INSTALL VAULT STORAGE TUBE SHIELD PLUG INTO LOADED STORAGE TUBE AND INSTALL COVER PLATE

FIGURE 2.11 (SHEET 2 OF 2)
SEQUENCE DIAGRAM
SURFACE MODULAR VAULT
BASKET OPERATIONS