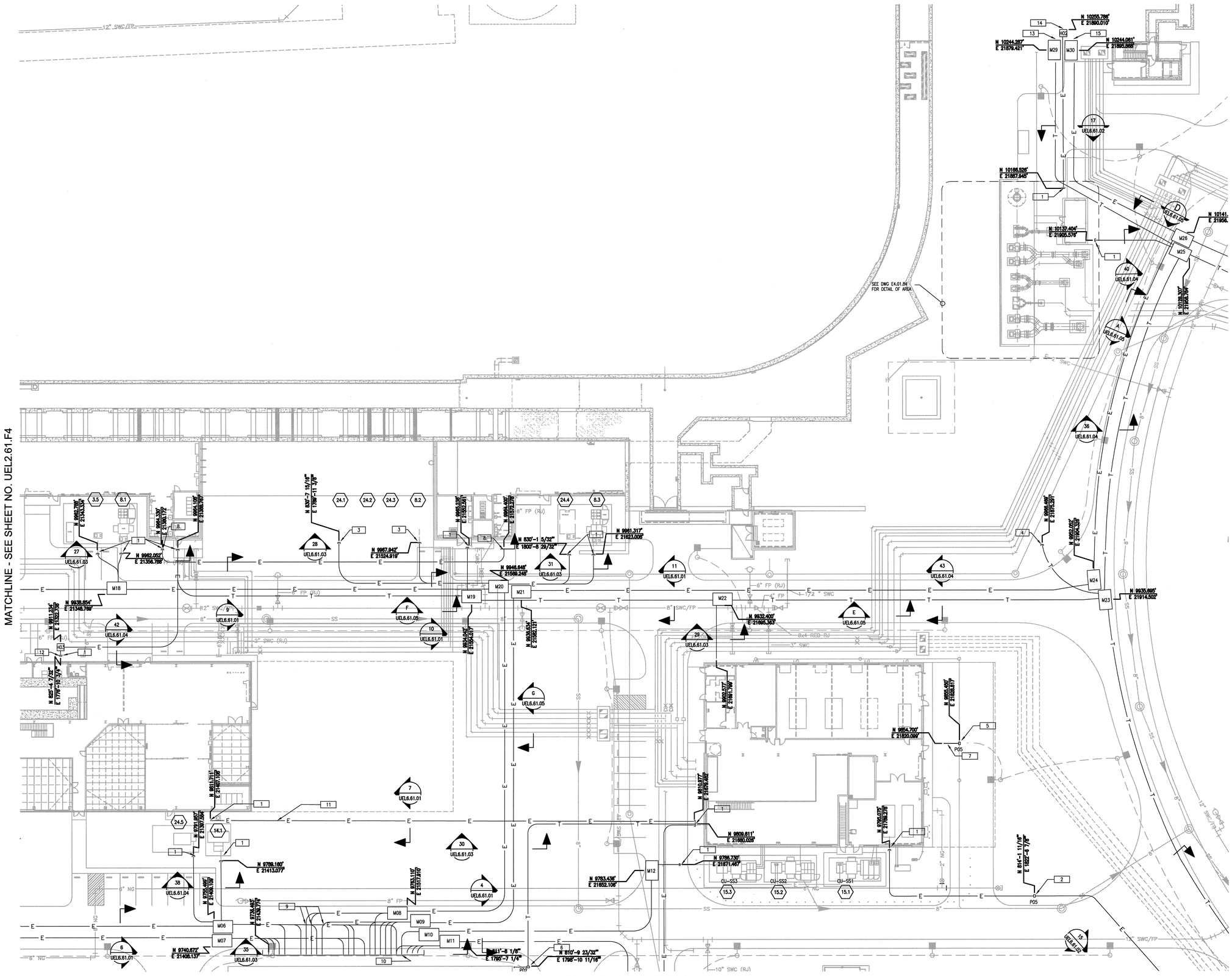
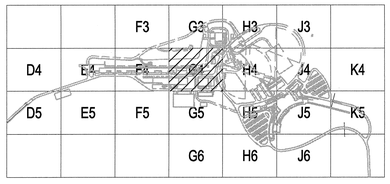


GENERAL NOTES:

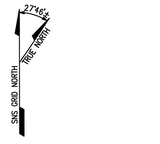
1. ALL POWER CONDUITS ARE 5" AND COMMUNICATION CONDUITS ARE 4" UNLESS NOTED OTHERWISE.
2. SEE DRAWINGS UEL6.61.08, UEL6.61.09 FOR MANHOLE, HANDHOLE, PULL BOX AND DUCTBANK REINFORCEMENT DETAILS.
3. CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION MANAGER THE INSTALLATION OF DUCTBANKS WITH BUILDING LAYOUTS.
4. CONTRACTOR SHALL NOT MAKE ANY SPLICES IN THE MANHOLE UNLESS NOTED OTHERWISE.
5. COMMUNICATION CABLE INSTALLATION SHALL BE COORDINATED WITH THE CONSTRUCTION SCHEDULE AND CABLE SHALL BE COILED UP IN THE NEAREST MANHOLE TO BE PULLED INTO THE BUILDING WHEN REQUIRED.
6. PROVIDE 2" DRAIN PIPE FROM THE MANHOLE SUMP UPTO THE DAYLIGHT AREA.

KEY NOTES:

1. CONTRACTOR SHALL PROVIDE CONDUIT UP TO 5'-0' AWAY FROM THE BUILDING/PAD, BUT SHALL PROVIDE CONDUCTORS AND MAKE TERMINATIONS AT THE FINAL DESTINATION. SWITCHGEAR/EQUIPMENT WILL BE INSTALLED INCREMENTALLY OVER THE ENTIRE CONSTRUCTION PERIOD. FEEDERS SHALL BE INSTALLED INDIVIDUALY WHEN EQUIPMENT IS READY TO BE CONNECTED.
2. 10 1/2" X 17 1/4" PULLBOX PROVIDED TO FEED THE SANITARY SEWER PUMP STATION. CIRCUIT FED FROM CENTRAL UTILITY BUILDING 50A, 3POLE CU-3EPP1-27. SEE CUB DRAWING E4.01.71 FOR PANEL LOCATION.
3. CONDUIT STUBBED AND CAPPED FOR FUTURE USE.
4. 2" CONDUIT LAYED 14" BELOW GRADE AND STUBBED 2" ABOVE GROUND AT THE SHOWN LOCATION.
5. PROVIDE 10 1/2" X 17 1/4" DEEP CONCRETE PULL BOX WITH HEAVY DUTY COVER, TO SPLICE ROADWAY LIGHTING CIRCUIT. IDENTIFY THE PULL BOX AS "ELECTRIC ROADWAY LIGHTING".
6. 10 1/2" X 17 1/4" PULLBOX PROVIDED FOR COMMUNICATION CONDUITS FEEDING SWITCHYARD FROM THE CENTRAL UTILITY BUILDING.
7. PROVIDE A 2" CONDUIT FROM PULL BOX TO 5' FROM THE BUILDING TO ACCEPT ROADWAY LIGHTING CIRCUIT WIRES 3#6,1#8G FROM PANEL CU-3LP1 . COORDINATE THE LOCATION OF CONDUIT WITH CUB CONTRACT. SEE CUB DRAWING E4.01.71 FOR PANEL LOCATION.
8. 3-4"C FOR EMERGENCY FEEDER FROM HEBT TO KLYSTRON BLDG. SEE KLYSTRON BLDG DWG NO E4.01.12 AND HEBT BUILDING DWG E4.01.19 FOR TERMINATION AND CABLE DETAILS.
9. SEE SECTION 'L' SHEET UEL6.61.05 FOR SAME ELEVTION CORSSOVER OF DUCTBANKS.
10. CABLES SHALL BE PULLED FROM MANHOLES M06 THROUGH M11 INTO THE 13.8KV SWITCHHOUSE BY SUBCONTRACTOR. FINAL TIE INS WILL BE BY ORNL ELECTRICAL MAINTENANCE. COORDINATE WITH TVA CONSTRUCTION DWGS FOR DUCTBANK INTERFACE.
11. 2-4"C PROVIDED FOR CONTROL AND POWER FEEDER FROM CHL/RF EMERGENCY GENERATOR CH/RF-RG1 TO THE CUB ATS CU-3ATS1. SEE CUB DRAWING E4.01.71 AND CHL/RF DRAWING E4.01.79 FOR CONDUIT CONTINUATIONS AND FINAL TERMINATIONS.
12. DEPTH OF DUCTBANK BELOW GRADE IS 24".
13. COORDINATE THE COMMUNICATION CABLE INSTALLATION WITH THE RING SERVICE BUILDING CONSTRUCTION SCHEDULE.
14. COORDINATE INSTALLTION OF POWER FEEDERS FROM CENTRAL EXHAUST FACILITY TO THE RING SERVICE BUILDING WITH THE RING SERVICE BUILDING CONSTRUCTION SCHEDULE.
15. COORDINATE INSTALLATION OF POWER FEEDERS GOING TO THE RING SERVICE BUILDING WITH THE RING SERVICE BUILDING CONSTRUCTION SCHEDULE.



KEY PLAN



20' 0' 20' 40' 60'

SCALE: 1" = 20'

108040000-U8E-8000-A069

Knight Jacobs

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Oak Ridge National Laboratory
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U.S. GOVERNMENT contract DE-AC05-00OR22725
UT-BATTELLE, LLC, ® Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

SITE UTILITIES
ELECTRICAL PLAN
BLOCK G4

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	U	X	X	8	8000		1	1	P	U

51	52	53	WBS
NC	NA		1.8.4

UEL2.61.G4 REV 0

RPE		
DSN	A. SANDHU	7/13/01
DRW	G.GARCIA	7/13/01
CHK	A.KANER	7/13/01
DEPT		
PE		7/16/01
PJ		7/16/01
REQ		
UTB		7/16/01

RONALD R. STOFF, REGISTERED ENGINEER, No. 00126101, STATE OF TENNESSEE

0 REV. 7-11-01 DATE

DRAWING APPROVALS

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE SCHEDULE NUMBER	DESCRIPTION	DSN	CHK	DEPT
0				CERTIFIED FOR CONSTRUCTION - 7/13/2001	AS	AK	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
									VCS	106009	7/13/01

REVISION APPROVALS

RW	AW	BS	AK	BS	BJ	--	BS	--	WS
ST	CV	EC	EE	EM	IE	M	PD	SE	AR

SQUAD CHECK

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NUMBER OF SECTION OR DETAIL

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN

SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM 4

ENGINEERING PROCEDURE SNS-ENG-G001

AutoCAD

Date: 07/16/2001 Time: 16:21:03
Username: GARCIAGA
DGN:P:\PROJFILES\SNS\DWG\U8\U8_G4\U8_G4\U8_F1\U8_F1UT\UEL2-61-G4.DWG