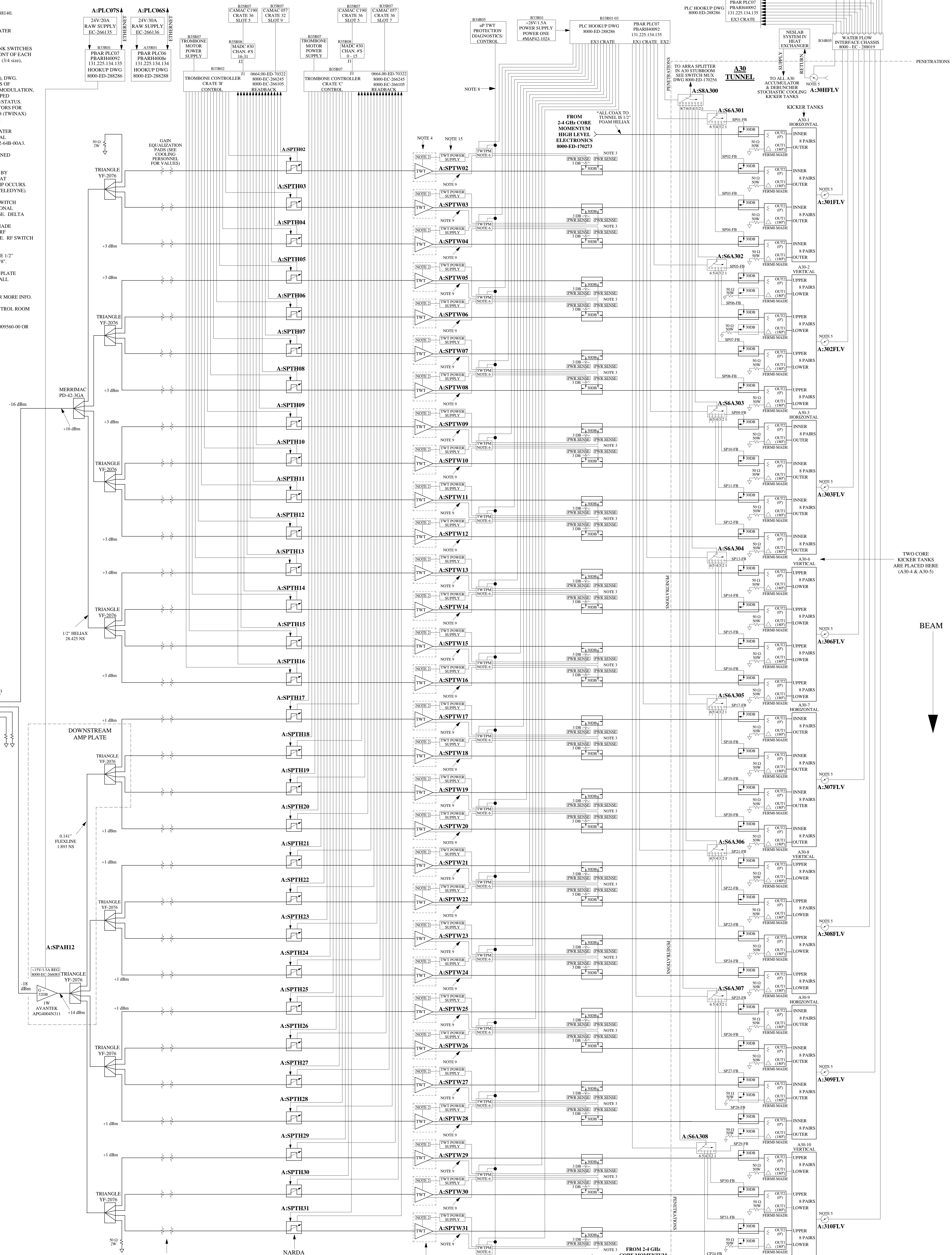


NOTES:

- EACH 1 WATT AMPLIFIER HAS A 15V/1.5A REGULATOR (DWG. 8000-EE-26693). ITS BUS (A 10C22 AWG CABLE) HAS ON/OFF CONTROL, ON/OFF STATUS, HIGH VOLTAGE STATUS, AND HIGH CURRENT STATUS.
- EACH TWT HAS A 6.3V FILAMENT REGULATOR (DWG. 8000-EC-21670). ITS BUS TO THEIR POWER SUPPLY SYSTEMS OF SIX 16 AWG 10K WIRES AND SIX 20 AWG 500V WIRES COVERED IN SHIELDED ZIPPER TUBING.
- POWER SENSORS ARE FERM-MADE. DRAWING #8000-EC-288140. REQUIRED +15V IS FROM TWTM.
- EACH TWT AND TWT REGULATOR ARE MOUNTED ON A WATER COOLED COPPER CHILL PLATE (DWG. 2214-MC-16749).
- VORTEX FLOW SWITCHES BY UNIVERSAL FLOW, INC. TANK SWITCHES ARE MODEL CP-2 (14 size), MOUNTED NEAR CEILING IN FRONT OF EACH TANK. RANGE IS 0.4-4 GPM. HEADER FLOW IS MODEL CP-1 (34 size), RANGE = 2.5-25 GPM. ALL ARE ON RETURN WATER LINES.
- TWTPM (TRAVELLING WAVE TUBE PROTECTION MONITOR), DWG. 8000-ED-17069, CABLING TO TWT POWER SUPPLY SYSTEMS CONSISTS OF THREE RG58 COAX FOR HELIX VOLTAGE MONITOR, HELIX MODULATION, AND FAULT INTERLOCK. TWO 10C22 AWG CABLES TY-RAPPED TOGETHER INTO ONE CONNECTOR FOR REMOTE CONTROL STATUS. THERE ARE ALSO FOUR RG-74 COAX FROM DIODE DETECTORS FOR FORWARD REVERSE POWER PROTECTION AND TWO RG-108 (TWINAX) FOR CHILL PLATE (OVERTEMP) FAULTS (SEE NOTE 9) ALSO.
- WATER TURBINE IS ON CEILING IN THE ACCUMULATOR WATER RETURN LINE IN A20-A30 TUNNEL SECTION. IT IS A THERMAL DISPOSITION TYPE BY FIELD COMPONENTS INTL. MODEL 12-640-00A3.
- EXTERNAL DATA BUS IS A 56C RIBBON CABLE DAISSY-CHAINED THRU ALL THE TWTM'S TO TDM.
- CHILL FAULT COMES FROM A #10 TEMPERATURE SWITCH BY ELMWOOD SENSORS, INC. (#3100-56-87L194) SET TO CLOSE AT 194 DEGREES FAHRENHEIT, +/- 9 DEGREES IF TWT OVERTEMP OCCURS. TWT'S ALSO HAVE AN INTERNAL TEMP. SWITCH BY MFC, (TELEDYNE).
- KICKER ASSEMBLIES CONSISTS OF A TELEDYNE SPDT RF SWITCH (CS2366) FOR FANBACK AND A FERMI-MADE DIRECTIONAL COUPLER SPLITTER MOUNTED DIRECTLY ON TANK FLANGE. DELTA KICKER ASSEMBLIES (#2, #3, #14, & #16) CONSIST OF A 30DB COUPLER (CA-1386) BY TRIANGLE MICROWAVE, A FERMI-MADE 180 DEGREE HYBRID, AND THE TELEDYNE (CS2366) SPDT RF SWITCH. HYBRID IS MOUNTED DIRECTLY TO TANK FLANGE. RF SWITCH TERMINATIONS ARE 50 OHM, 2 WATT.
- ALL COAX FROM SPLITTER ASSEMBLY TO TROMBONES ARE 1/2" HELIAX EXCEPT THE LONGEST FOUR (#13-16) WHICH ARE 7/8".
- FANBACK SPLITTER ASSEMBLY MOUNTED ON ALUMINUM PLATE UPSIDE-DOWN UNDER CABLE TRAY ABOVE TANK A30-10. ALL SPLITTERS ARE BY TRIANGLE MICROWAVE.
- SEE HIGH LEVEL SAFETY SYSTEM DWG. 8000-ED-26695 FOR MORE INFO.
- SEE COOLING PERSONNEL OR COOLING BOOK IN A30 CONTROL ROOM FOR CURRENT HYBRID ORIENTATION.
- TWT POWER SUPPLIES ARE EITHER BY VARIAN, MODEL 01009500-00 OR BY LOGMETRICS, MODEL A610L5-417

AP30 SERVICE BUILDING



FROM MEDIUM LEVEL ELECTRONICS 8000-EE-170265

MERRIMAC PD-42-3GA

TRIANGLE YE-2076

TRIANGLE YE-2076

TRIANGLE YE-2076

TRIANGLE YE-2076

TRIANGLE YE-2076

TRIANGLE YE-2076

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TRIANGLE YE-2076

TRIANGLE YE-2076

0.141" FLEXLINE 1.893 NS

AVANTEK APG600N11

AVANTEK APG600N11

AVANTEK APG600N11

AVANTEK APG600N11

AVANTEK APG600N11

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4/7/09

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K	5/9/02	REMOVED STP#413, REPLACED WITH 2.4 GHz CORE MOMENTUM SIGNAL
J	10/27/97	CHANGED TO 2.4 GHz SYSTEM COMPLETELY REDRAWN
H	11/10/95	CONNECTED TO AIR-CD
G	6/13/94	ADDITION OF DELTA KICKER COMPONENTS TO KICKER #1
F	9/11/92	DELTA HYBRID CHANGE
E	8/12/92	DELTA KICKER CONNECTIONS
D	8/4/92	DELTA KICKER CHANGES, FERMI MADE HYBRIDS & COUPLERS INSTALLED
C	6/23/95	TROMBONES AND SWITCHES ADDED ON DELTA KICKERS
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