



MARK	GROUP (NOTE)	INSTRUMENT MATERIAL	SCHEDULE
A	1	ASME SA 213 GR TP 316 SMLS SS	PIPING & TUBING STANDARD FOR SAFETY CL 243 INSTALLATIONS (COBIA)
B	2B	ASME SA 213 GR TP 316 SMLS SS	PIPING & TUBING STANDARD FOR ANSI B31.1 INSTALLATIONS (COBIA)
C	3	ASME SA 213 GR TP 316 SMLS SS	PIPING & TUBING STANDARD FOR ANSI B31.1 INSTALLATIONS (COBIA)
D	4	ASME SA 213 GR TP 316 SMLS SS	PIPING & TUBING STANDARD FOR ANSI B31.1 INSTALLATIONS (COBIA)
E	2A	ASME SA 213 GR TP 316 SMLS SS	PIPING & TUBING STANDARD FOR ANSI B31.1 INSTALLATIONS (COBIA)

- NOTES:
- SCALE 3/8"=1'-0" UNLESS OTHERWISE NOTED.
 - ALL DWG'S TO BE PREFIXED "12177" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
 - THIS SYMBOL (BK-16XX) INDICATES A REFERENCE TO A INSTRUMENT INSTALLATION DETAIL DWG.
 - REFER TO INSTR BILL OF MAT'L FOR INSTR MARK NO SHOWN.
 - REFER TO MFR PRINTS FOR CONN'S TO EQUIP'T.
 - PRI SENSING LINE SLOPES SHALL BE 1/2" PER FT MIN FOR PRESS, FLOW & DIFF DEVICES UNLESS OTHERWISE NOTED.
 - FOR GROUP DEF REFER TO INSTR INSTL SPEC NO NMP2-COBIA.
 - FOR TYPE OF FTG'S & VALVES USED WITH EACH MARK REFER TO STANDARD IN SPEC NO NMP2-COBIA.
 - INSTR & PIPING TO BE INSTALLED, SUPPORTED & PROTECTED IN ACCORDANCE WITH INSTR INSTL SPEC NO NMP2-COBIA.
 - INSTR TUBE ROUTING FROM THE LAST SUPPORT OF TUBING RUN TO THE INSTRUMENT SHALL BE DETERMINED BY THE CONTRACTOR WITH ENGINEERING APPROVAL PRIOR TO INSTALLATION.
 - THIS SYMBOL (BZ-XXX) INDICATES A REFERENCE TO A PIPE SUPPORT DETAIL DWG.
 - ALL SUPPORTS SHOWN TO BE RESTRAINTS OR GUIDES UNLESS INDICATED AS (A) ANCHOR OR (VERT/HORIZ) ONE-WAY RESTRAINT.
 - CENTERLINE SPACING FOR INSTR TUBING TO BE 3/2" MIN UNLESS OTHERWISE NOTED.
 - ALL W.P. ELEVATIONS ARE TO BE TAKEN AT CENTERLINE OF TUBING UNLESS OTHERWISE NOTED.
 - LOCAL MOUNTED INSTRUMENTS ARE TO BE LOCATED 4'-6"±3" ABOVE GRADE OR PLATFORM INDICATED CL EL IS THE EXACT LOCATION OF THE INSTRUMENT ±3".

REFERENCE DWGS:
 PIPING
 CONCRETE
 ELECTRICAL
 FRAMING
 THIMBLE LOCATION
 MACHINE LOCATION

EP-10B SERIES
 EC-50A
 EE-550 SERIES
 EE-32,33,37 SERIES
 ES-10M,EC-69A,B,C,EC-51D
 EP-117 SERIES
 EM-2,3,8 SERIES

APPROVED *Sublet a balance 252485*
 LICENSED PROFESSIONAL ENGINEER, NO.
 STATE OF NEW YORK
 ALTERATION EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL

NUCLEAR SAFETY RELATED
 QA CAT I, II

INSTRUMENT PIPING
 TUNNELS

NINE MILE POINT NUCLEAR STATION - UNIT 2
 NIAGARA MOHAWK POWER CORPORATION

STONE & WEBSTER ENGINEERING CORPORATION
 CHERRY HILL, N.J.

DRAWING NUMBER 12177-EK-403A-2

DESIGNED BY AM LLOYD DRAWN BY AM LLOYD

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ISSUED FOR CONSTRUCTION

RECORD OF DWG CHANGES

12177-BCK-403A-2

ORIGINAL ISSUE

FOR CONSTRUCTION

REV	DESCRIPTION	CHD	CONTRACT	DATE	REV	DESCRIPTION	CHD	CONTRACT	DATE	REV	DESCRIPTION	CHD	CONTRACT	DATE	REV	DESCRIPTION	CHD	CONTRACT	DATE
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