3.0 CONDUIT REQUIREMENTS K ALL METALLIC CONDUITS SHALL BE GROUNDED IN ACCORDANCE WITH DWG D-5020 PAR-16. THE CONDUIT SYSTEMS SHALL BE INSTALLED AND PROVIDED IN ACCORDANCE WITH THE FOLLOWING NOTES, RELATED PROJECT DRAWINGS AND CONSTRUCTION SPECIFICATIONS 502 AND 511-THESE PRACTICES SHALL BE FOLLOWED BY THE CONTRACTOR EXCEPT WHERE SPECIFICALLY ALL CONDUIT MARKERS SHALL BE ATTACHED IN THE MOST VISIBLE MANNER AS VIEWED FROM THE FLOOR A CONDUIT INSTALLATION CARD SHALL BE ISSUED TO CONTRACTOR FOR EACH CONDUIT. THE FOLLOWING INFORMATION SHALL BE PRINTED ON THE CARD: 3.01 GENERAL a - DATE CARD ISSUED FOR ADDITIONAL NOTES RELATED TO GROUNDING, CATHODIC PROTECTION, MANHOLES, HANDHOLES, UNDERGROUND DUCT BANKS & FOR NOTES RELATED TO LIGHTING AND COMMUNICATIONS, SEE APPROPRIATE REFERENCE DRAWINGS. 6 - CONDUIT NUMBER AND SEPARATION CODE c - CONDUIT REPORT IDENTIFICATION d - CABLE & CONDUIT LIST REVISION FOR METHOD OF LOCATING EMBEDDED AND EXPOSED CONDUITS SEE PAR 3, 02T AND 3, 03E. - CONDUIT SIZE AND KIND ALL EXPOSED AND EMBEDDED CONDUITS IN CONCRETE FLOORS AND WALLS SHALL BE GALVANIZED RIGID STEEL UNLESS OTHERWISE NOTED. ALL UNDERGROUND CONDUIT DUCT BANKS SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED. THE NOMINAL SIZE OF EACH CONDUIT IS IDENTIFIED ON THE RESPECTIVE CONDUIT DRAWING. F - CONNECTING RACEWAY OR EQUIPMENT 44 THE CONTRACTOR SHALL FILL IN THE FOLLOWING INFORMATION IN THE SPACES PROVIDED ON THE CARD: CONDUIT FITTINGS AND ACCESSORIES SHALL BE OF THE SAME MATERIAL AND FINISH AS THEIR CONDUITS, a - DATE CONDUIT INSTALLED MINIMUM BENDS FOR ALL CONDUIT EXCEPT DIMENSIONED CONDUIT KUNS SHALL BE AS FOLLOWS: 6 - ACTUAL CONDUIT LENGTH 1. METALLIC CONDUITS WITH STANDARD BENDS OR FIELD BENDS MADE WITH A ONE SHOT BENDING MACHINE. c - NAME OF INSTALLER AN ADDITIONAL SPACE SHALL BE PROVIDED ON THE CARD FOR OCINSPECTOR NAME AND SIGNATURE. CONDUIT TRADE SIZE MINIMUM BENDING RADIUS TO CENTER LINE OF BEND ALL CONDUITS ENTERING CABLE TRAY HORIZONTALLY WILL TERMINATE AT THE EDGE OF THE CABLE TRAY. A TOLERANCE OF & TWO INCHES IS ACCEPTABLE. O NON-SEISMIC CONDUITS ENTERING CABLE TRAY VERTICALLY WILL TERMINATE AS FOLLOWS. CL VERTICAL MEASUREMENT AT LEAST TEN INCHES, BUT NOT MORE THAN 16" FROM THE TRAY BOTTOM PROVIDED THE SPACING ALLOWS FOR TRAINING THE LARGEST CABLE INSTALLED IN THE CONDUIT. FIELD BENDS MADE WITHOUT A ONE SHOT BENDING MACHINE 6. HORIZONTAL MEASUREMENT NOT TO EXCEED THREE INCHES FROM THE TRAY EDGE TO CONDUIT EDGE. CONDUIT SIZE MINIMUM BENDING RADIUS TO INNER EDGE OF BEND THE MAXIMUM RECOMMENDED SPACING BETWEEN PULL POINTS FOR CONDUITS OR DUCTS SHALL BE AS FOLLOWS: a) 100 FEET INCLUDING EQUIVALENT OF THREE 90° BENDS. b) 200 FEET INCLUDING EQUIVALENT OF TWO 90° BENDS AND ONE 90° SWEEP, c) 300 FEET INCLUDING EQUIVALENT OF TWO 90° BENDS. d) 400 FEET INCLUDING EQUIVALENT OF ONE 90° BEND AND ONE 90° SWEEP. e) 450 FEET INCLUDING EQUIVALENT OF CNE 90° BEND OR TWO 90° SWEEP f) 500 FEET INCLUDING EQUIVALENT OF ONE 90° SWEEP. g) 600 FEET WITHOUT BENDS OR SWEEPS. ALL CONDUITS CONTAINING 5KV OR 15KV CABLES SHALL HAVE BENDS WITH A 24" MINIMUM BENDING RADIUS, Q THE MAXIMUM UNSUPPORTED CABLE LENGTH SHALL BE 18". G. ALL CONDUITS CUT IN FIELD SHALL BE REAMED AND FREED OF BURRS BEFORE INSTALLATION, NO STRUCTURAL STEEL MEMBER OR REINFORCING BARS SHALL BE CUT OR DRILLED TO AVOID PHYSICAL INTERFERENCE WITH CONDUIT, UNLESS APPROVED BY THE ENGINEER. FIELD CUT GALVANIZED STEEL CONDUIT THREADS SHALL BE PAINTED WITH ZINC RICH PAINT BEFORE FITTINGS ARE ATTACHED. ALL CONDUITS SHALL BE SLOPED TOWARD PULL BOXES, HANDHOLES OR MANHOLES FOR DRAINAGE, WHERE NO PROVISION FOR DRAINAGE CAN BE MADE, BOTH ENDS OF CONDUIT SHALL BE SEALED AFTER CABLE HAS BEEN INSTALLED TO PREVENT ENTRANCE OF WATER. SEE SPECIFICATION 3240-485.
EXCEPTION: CONDUIT INSIDE CONTAINMENT SHALL NOT BE SEALED TO ALLOW FOR PRESSURE EQUALIZATION. FOR SEPARATION AND IDENTIFICATION, REFER TO SECTION 5 & 6 OF GENERAL MOTES. NUCLEAR SAFETY RELATED WPPSS QUALITY CLASS [1] & G WASHINGTON PUBLIC POWER SUPPLY SYSTEM EBASCO SERVICES INCORPORATED WPPS-32 DIV. ELECT. DR. E.M. NUCLEAR PROJECTS NO. 3 8 5 CH. R. ABRAMOWITZ GENERAL NOTES, SYMBOLS AND DCN-ED-79 D-5023 REFERENCE DRAWINGS DATE FEB. -24-77 NCORPORATED IN REV. 5

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