

BLE TRAND DETAILS				
CABLE SIZE	NO. OF STRANDS	O.OF EYOTH RMIC RO'S HER CABLE CONNICTION	CABLE STRANDS PER GROUP	
8	/19		19	
6	7 9	1	7	
			19	
A	7 19	2	3-4	
			10-9	
2		3	3-2-2	
	19	-	7-6-6	

DETAIL

TYPICAL CONNECTIONS C. NO.2 AWG CABLE AND LARGER CALLES

NOTES:

CLEAN AREA OF STEE SURFACE APPROXIMATELY 2"x 2"
FO EACH THE W. "WE. D CONNECTION. WIRE BRUSH FILE
AD SCRAPE TO OBTAIN SSPC-SP-5 WHITE METAL
SURFACE TO USH.

ENOT

- 2. SELÉCTATION AND MATERIAL TYPE.
- 3 STRIN SABLE FIID AND TWIST TO FIT THERMOWELD
 13 LD. S. BLF SIZES LARGER THAN 6 AWG SHALL BE
 THERMOW LOED BY TWISTING CONDUCTORS INTO GROUPS
 APPLIES IMMTELY NUMBER 6 AWG CABLE SIZE. MINIMUM
 ACIN' BETWEEN WELDS WILL BE DETERMINED BY MOLD
 GEOMP RY, NOMINALLY 3".
- 4. HOLD MOLD FIRMLY AGAINST PIPE WITH OPENING AWAY FROM THE OPERATOR. IGNITE WITH FLINT GUN.
- 5. REMOVE ALL WELD SLAG, SPLATTER, SHARP EDGES AND BURRS WITH CHIP HAMMER AND METAL FILE.
- 6. TEST STRENGTH OF CONNECTION BY LIGHTLY TAPPING WITH 1 LB NAMMER, AND PULL WITH 5 LB FORCE ON CABLE.
- 7. WIPE PIPE SURFACE WITH CLEAN, OIL FREE RAGS TO REMOVE ANY LOOSE DUST.
- 8. PRIME CLEANED SURFACE WITH APPROVED PRIMER.
- COAT THERMOWELD AND 6" OF CABLE TAIL WITH COMPATIBLE COATING, SUCH THAT ALL CORNERS ARE FILLED. THE COATING SHALL EXTEND FOR AT LEAST 2" AROUND THE THERMOWELD AREA.
- 10. THERMOWELD CARTRIDGE SIZE SHALL BE COMPATIBLE TO STEEL MATERIALS. MULTIPLE POWDER CARTRIDGE CHARGERS SHALL NOT BE USED. IF A THERMOWLED MUST BE REPEATED, A NEW PIPE SURFACE MUST BE PREPARED AT LEAST 3" FROM THE ORIGINAL WELD ATTEMPT. MORE THAN ONE WELD ATTEMPT ON THE SAME SPOT SHALL NOT BE PERMITTED.
- 11. IN NON-CONCRETE LINED PIPES, ALL EXOTHERMIC WELDS SHALL BE MADE IN A STEEL PAD.

ITEMS CALL OUT:

- 1 CABLE: AWG SIZE, ASTM B3/B8 ASTM D-1248, TYP1 1, CLASS C, GR.5 INSULATION
- (2) SLEEVE: ADAPTER
- 3 APPROVED PRIMER & WELD CAP OR MORTAR OVER WELD LOCATION

REVISION	BY	APPROVED	DATE
ORIGINAL		A. OSKOUI	12/03
UPDATED	KA	J. NAGELVOORT	01/12
REDRAFTED	CD	J. NAGELVOORT	09/18
DELETED	EF	J. NAGELVOORT	10/19

CITY OF SAN DIEGO - STANDARD DRAWING

EXOTHERMIC WELDING OF CABLES AND COATING OF WELDING

RECOMMENDED BY THE CITY
OF SAN DIEGO STANDARDS COMMITTEE



DRAWING NUMBER

SDW-125