

MATERIAL LIST

- 1 INSULATING FLANGE KIT COATING, SEE NOTE 7 ON SHEET 2
- 2 NEMA G-10 FULL FACE INSULATING GASKET, SEE NOTE 1 AND 2 ON SHEET 2
- 3 NEMA G10 INSULATING SLEEVE
- 4)5)6)7)8)9)10 NEMA G10 INSULATING WASHER (TYP)
- ALL THREAD STUD OR BOLT
- PROVIDE IDENTICAL PIPE COATING TO THE BACK OF FLANGE, SEE NOTE 4 ON SHEET 2
- CEMENT-MORTAR COATING OR ARMOR COAT
- SHOP APPLIED TAPE WRAP COATING
- STEEL FLANGE, SEE NOTE 1 (TYP) ON SHEET 2
- EXTRA STEEL WASHER REQUIRED ON BOTH SIDES FOR PIPE ØS 36"AND GREATER, SEE NOTE 3 ON SHEET 2
- $\underbrace{\widetilde{11}}_{\underline{1}}$ STEEL WASHER (TYP)
- 12 HEAVY HEX NUT (TYP)
- <u>(</u>13) STEEL PIPE CYLINDER
- 14) ELASTOMERIC SEALANT OR EPOXY GROUT, SEE NOTE 6 ON SHEET 2
- <15[`] FINISHED PIPE ID

* SEE NOTES ON SHEET 2

SHEET 1 OF 4

	REVISION ORIGINAL	BY BM	APPROVED A. OSKOUI	DATE 12/03	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	:
	NOTES	ВM	A. OSKOUI	12⁄06		Chtringea 10/10/2	19
	UPDATED	KA	J. NAGELVOORT	01/12	INSULATING FLANGE	COORDINATOR R.C.E. 56523 DATE	-
	UPDATED	CD	J. NAGELVOORT	09/18	INSULATING MECHANICAL COUPLING		-
	UPDATED	EF	J. NAGELVOORT	10/19	MONOLITHIC ISOLATION JOINT	DRAWING SDW-123	
- 1							

NOTES FOR INSULATING FLANGE KIT PIPE LINING AND COATING

- 1. OVERSIZE THE BOLT HOLES FOR BOTH THE MATING STEEL FLANGES AND THE INSULATING GASKET RETAINER PER AWWA C207, SECTION 4.2.3 TO FACILITATE THE INSULATING FLANGE KIT SLEEVE INSTALLATION.
- 2. INSIDE DIAMETER OF INSULATING GASKET SHALL MATCH INSIDE DIAMETER OF STEEL CYLINDER.
- 3. FOR NOMINAL PIPE DIAMETERS 36"AND LARGER, ASTM F436 HARDENED STEEL WASHERS ARE REQUIRED. AN EXTRA STEEL WASHER SHALL BE INSTALLED TO SANDWICH THE G-10 WASHER ON EACH SIDE OF THE FLANGE.
- 4. THE PIPE COATING ON EACH SIDE OF THE INSULATING FLANGE SHALL BE OF THE SAME TYPE, THICKNESS, AND QUALITY UP TO THE BACKSIDE OF THE RESPECTIVE FLANGE. FOR THE CASE OF A BURIED INSULATED FLANGE THAT CONNECTS A DIELECTRICALLY COATED STEEL PIPE TO A CONCRETE (CEMENT-MORTAR) COATED STEEL PIPE, A DIELECTRIC COATING SHALL NOT BE APPLIED TO THE SIDE OF THE INSULATED FLANGE COMMON WITH THE CONCRETE (CEMENT-MORTAR) COATED STEEL PIPE. IN THIS SITUATION, THE PIPE ON ONE SIDE OF THE INSULATING FLANGE SHALL HAVE A DIELECTRIC COATING ON THE OTHER SIDE SHALL HAVE A CEMENT-MORTAR COATING.
- 5. THE PIPE LINING SHALL BE THE OF SAME TYPE, THICKNESS, AND QUALITY AS THE ADJOINING PIPE SECTION.
- 6. FILL THE INTERNAL GROOVE BETWEEN THE TWO INSULATING FLANGE FACES WITH AN ELASTOMERIC SEALANT OR AN EPOXY MODIFIED GROUT THAT IS COMPATIBLE WITH THE HOST PIPE LINING. THE ELASTOMERIC SEALANT SHALL BE A NON-SAG, POLYURETHANE-BASED, SEALANT THAT IS NSF APPROVED FOR POTABLE WATER CONTACT. THE ELASTOMERIC SEALANT SHALL BE "SIKAFLEX IA,""SIKAFLEX 2C NS," OR APPROVED EQUAL.
- 7. BURIED INSULATING FLANGES SHALL BE WAX-TAPED PER AWWA C217. THE WAX-TAPE SHALL OVERLAP THE SHOP APPLIED COATING BY A MINIMUM OF 3 INCHES. FLANGES EXPOSED TO THE ATMOSPHERE SHALL BE COATED WITH A MINIMUM 20 MIL DFT EPOXY PAINT.
- 8. THE INSULATING FLANGE KIT SHALL BE INSPECTED, TESTED, AND APPROVED BY THE CITY'S CORROSION SECTION PRIOR TO THE APPLICATION OF WAX TAPE AND BURIAL.
- 9. SEE SHEET 3 FOR AN INSULATING MECHANICAL COUPLING AND SHEET 4 FOR A MONOLITHIC ISOLATION JOINT.

REVISION	ΒY	APPROVED	DATE		RECOMMENDED BY THE CITY
ORIGINAL	BM	A. OSKOUI	12⁄03	CITT OF SAN DIEGO - STANDAND DNAWING	OF SAN DIEGO STANDARDS COMMITTEE
NOTES	BM	A. OSKOUI	12⁄06		Chtringea 10/10/19
UPDATED	KA	J. NAGELVOORT	01/12	INSULATING FLANGE	COORDINATOR B C E 56523 DATE
UPDATED	CD	J. NAGELVOORT	09⁄18	INSULATING MECHANICAL COUPLING	
UPDATED	EF	J. NAGELVOORT	10/19	MONOLITHIC ISOLATION JOINT	DRAWING SDW-123
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SHEET 2 OF 4



MECHANICAL COU	PLING
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UPDATED

EF

J. NAGELVOORT

10/19

SDW-123

DRAWING

NUMBER



THE PIPE LINING SHALL BE EPOXY LINED PER PROJECT SPECIFICATIONS. 2.

1.

THE MONOLITHIC INSULATOR SHALL BE INSPECTED, TESTED, AND APPROVED BY THE CITY'S CORROSION SECTION PRIOR TO THE APPLICATION OF WAX TAPE AND BURIAL. 3.

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ORIG	SION SINAL I	BM	APPROVED A. OSKOUI	12/03	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
BEVIS	SION	BY	APPROVED	DATE		RECOMMENDED BY THE CITY