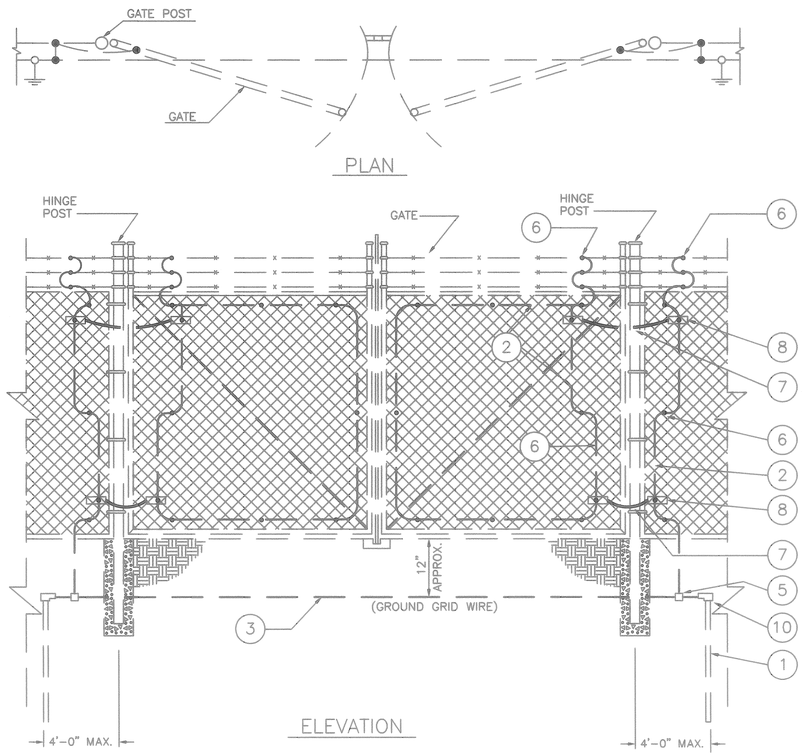
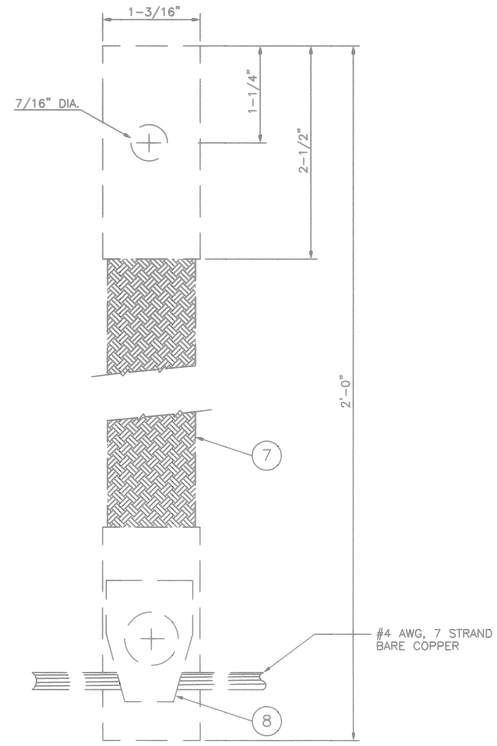
DRAWING NUMBER X-2208-11-C



FENCE GROUNDING DETAIL

N.T.S.



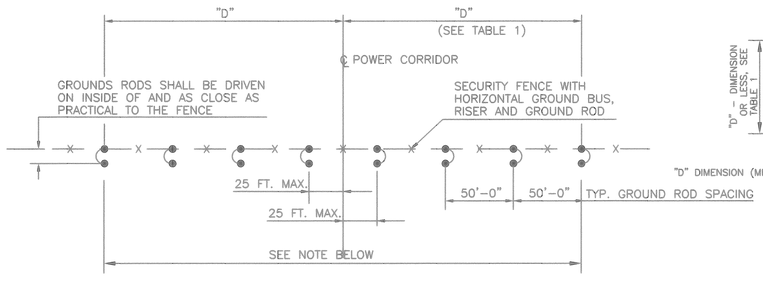
FLEXIBLE BONDING STRAP FOR GATE GROUNDING

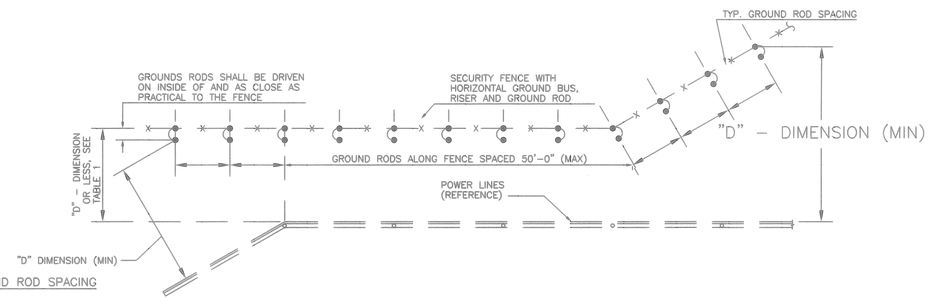
N.T.S.

MATERIAL LIST	
ITEM	DESCRIPTION
1	GROUND ROD 3/4" X 8' COPPERWELD JOSLYN J9168 W/(1) J-9183
2	#4 AWG, 7 STRAND, FULLY ANNEALED, SOFT BARE COPPER
3	#1/0 AWG, 7 STRAND, FULLY ANNEALED, SOFT BARE COPPER
4	CONNECTION #1/0 AWG TO PIPE BURNDY TYPE GAR SIZE TO SUIT
5	CONNECTION #1/0 AWG RUN TO #4 AWG TAP CADWELD TO TAC-2CIL
6	SPLIT BOLT CONNECTOR FOR #4 AWG TO #6 AWG GALVANIZED STEEL FENCE FABRIC BURNDY SERVIT KS22 OR APPROVED EQUAL
7	FLEXIBLE COPPER BRAID 1-3/16" W X 24" LONG WITH 2-1/2" END FERRULES, EACH WITH ONE 7/16" BOLT HOLE, BURNDY BD24 OR APPROVED EQUAL
8	CONNECTION FOR #4 AWG TO BRAID FERRULE AND FENCE, BURNDY GB26 OR APPROVED EQUAL
9	CONNECTION #4 AWG TO 3/4" GROUND ROD CADWELD GRC-181L
10	CONNECTION #1/0 AWG TO 3/4" GROUND ROD CADWELD GRC-182C OR APPROVED EQUAL
11	CONNECTION #4/0 AWG TO #4/0 AWG STRANDED CABLES CADWELD PCC-2Q2Q OR APPROVED EQUAL

TABLE 1

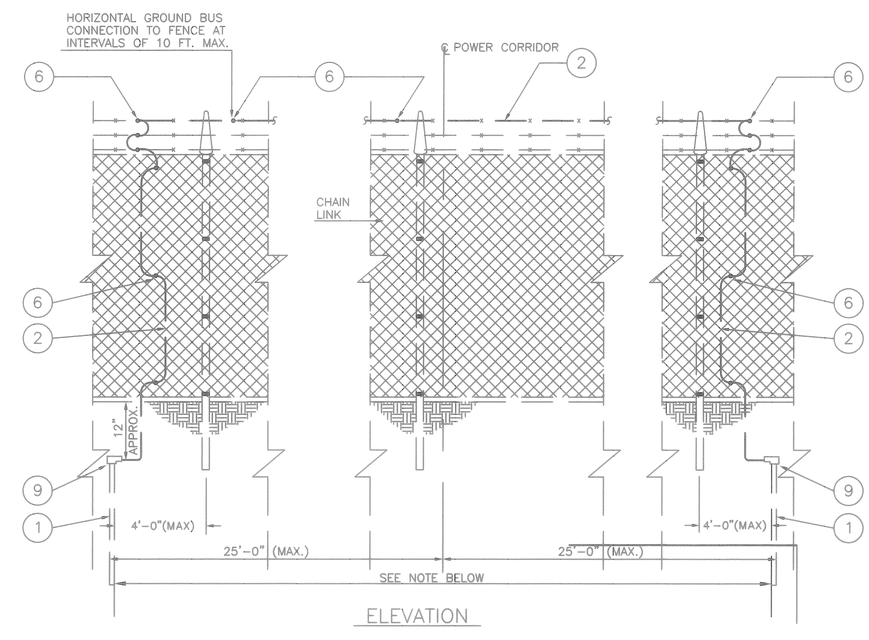
GROUND ROD SPACING	
POWER CORRIDORS (KILOVOLTS)	DIMENSION - D SHORTEST DISTANCE FROM FENCE TO CENTER OF POWER LINE
2.3 TO 44	25 FT.
69 TO 115	50 FT.
138 TO 161	75 FT.
230 TO 289	100 FT.
290 & ABOVE	150 FT.





ELECTRICAL LINES PARALLELING FENCE LINES (SEE TABLE 1)

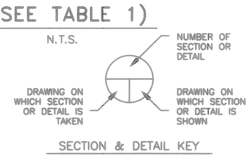
N.T.S.



NOTE:
1. FOR FENCE FREE FROM ELECTRICAL POWER LINE CROSSINGS OR PARALLELS, GROUNDING SPACING SHALL BE SPACED AT 500 FEET INTERVALS

ELECTRICAL POWER LINES CROSSING FENCE (SEE TABLE 1)

N.T.S.



SECTION & DETAIL KEY

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Reviewer (Signature) Date 4/23/14

APPROVED FOR RELEASE
H.H. THOMAS
DATE 4/23/14

REFERENCE DRAWINGS	OPEN CHANGES	REV	REVISION DESCRIPTION	DWN	CHK	DESIGN MANAGER	DATE
		A	CFC PER ESO E4B05	SMW	RAD		4/24/14

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P.O. BOX 548 PIKETON, OHIO 45661

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CONTRACT DEAC3010CC40017
DRAWN BY S.M. WILLIAMS
CHECKED BY L.S. DOWNARD
MM/RED R.A. DEPUE 4/16/14
DESIGN MANAGER 4/24/14
SCALE NTS

AUTOCAD

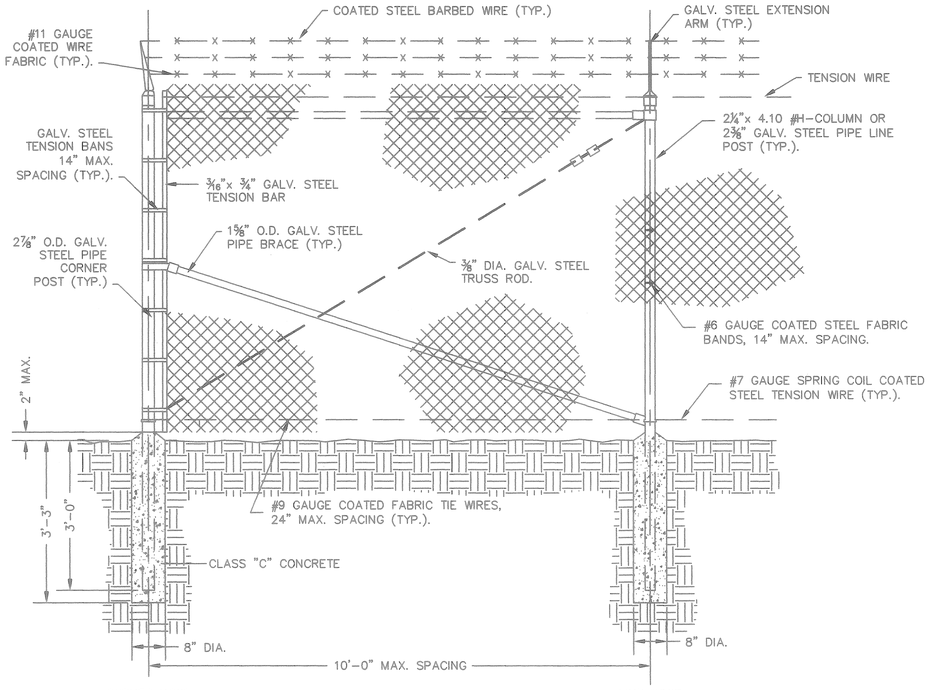
PORTSMOUTH GASEOUS DIFFUSION PLANT
D & D PROJECT

PARKING LOT UPGRADE
X-1000 SOUTH LOT
FENCE GROUNDING DETAILS

FACILITY X-2208
DRAWING NUMBER X-2208-11-C
A

DRAWING NUMBER X-2208-12-C

NOTES:
1) SEE FBP CSPEC-02444 REV. 1 FOR MATERIALS & INSTALLATION



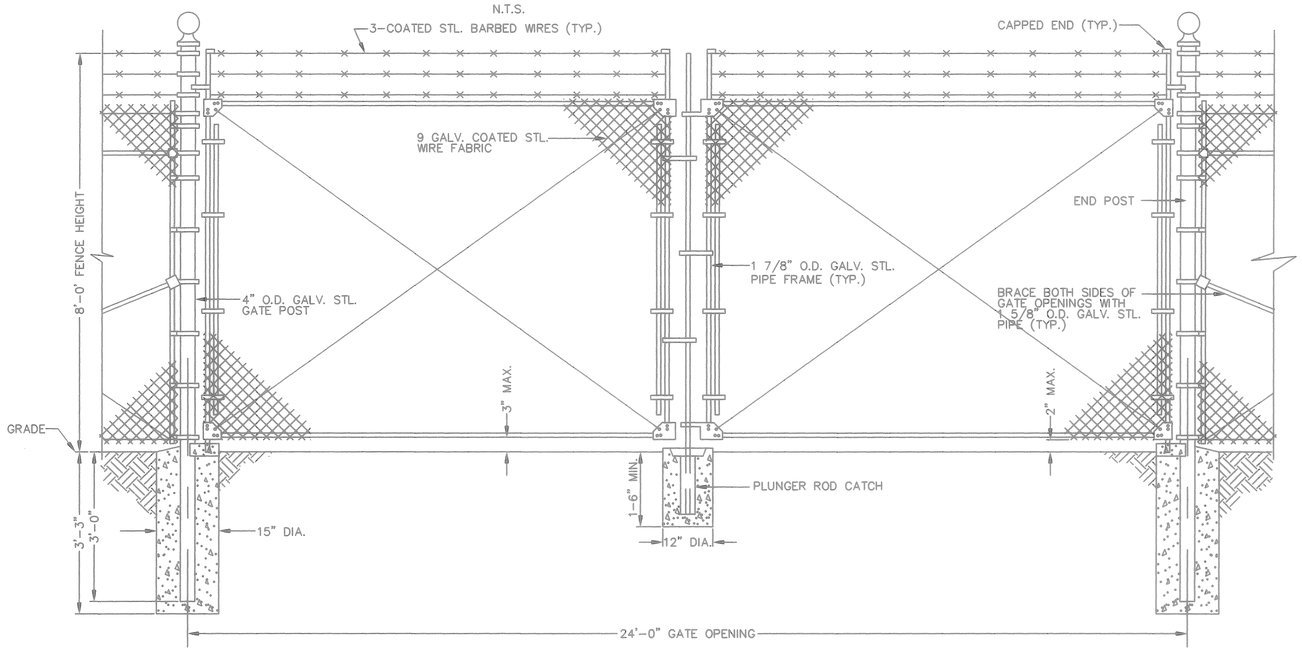
NOTE: ALL FENCING HARDWARE SHALL BE INSIDE SECURE AREA, ALL BOLTS WILL BE SPOT WELDED OR PEENED.

TYPICAL SECURITY FENCE DETAIL

N.T.S.

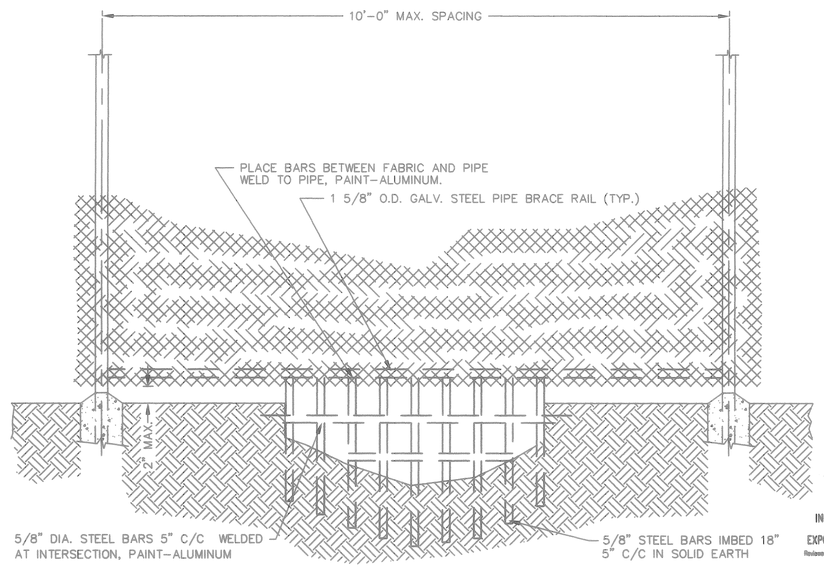
ELEV. OF LINE POST

N.T.S.



DOUBLE LEAF GATE DETAIL

N.T.S.



FENCING ACROSS SWALE DETAIL

N.T.S.

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Reviewer(Signature) K.L. Driell Date 4/25/14

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H.H. THOMAS
DATE 4/23/14

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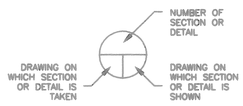

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		A	CFC PER ESO E4805	SMW	RAD	[signature]	4-24-2014

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