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SECTION 2 0!" # RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

\$ENERAL

1%1 RELATED DOCUMENTS

- D&'()*+, '*- +.*.&'/ O&12),)1*, 13 45. C1*4&'647)*6/8-)*+ \$.*.&'/ '*- S800/.9.*4'&: **A**% C1*-)4)1*, **-D)2),)1* O1 S0.6)3)6 '4)1* S.64)1*, 7 '00/: 41 45), S.64)1*
- B% N1845 (.,4.8* IT/IS S4'*-'&-,318 &'6. (':, '*-6';/.48':,318 T./.61998*)6'4)1*,6';/)*+%

1 1/2 SUMMARY

- Α% S.64)1* I*6/8-.,:
 - 1% M.4'/61*-8)4,748;)*+7'*-3)44)*+,%
 - N1*9.4'//)661*-8)4,748;)*+7'*-3)44)*+,% M.4'/()&.(':,'*-'8<)/)'&:+844.&,%

 - S8&3'6. &'6. (':,% =%
 - P1>. T5&8 A, , . 9 ;/).,%
 - B1<.,73/11&;1<.,7.*6/1,8&.,7'*-6';)*.4,%
- R./'4. R.?8)&.9.*4,: В%
 - D)2),)1* 2 S.64)1* @U*-.&+&18*-D864, '*-R'6.(':,31&E/.64&)6'/S:,4.9,@31&.<4.&)1& -864; '*>,7 9 '*51/.,7 '*- 8*-.&+&18*- 84)/)4: 61*,4&864)1*%
 - N1&45 (. . 4 . & * U *)2 . & , |4: IT/IS S4' * '& , 31& 0'45 (':, 31& E/.64&1 *)6 S'3 . 4:7 2% C1998*)6'4)1*, '*- S.68&)4: S:,4.9,%
- 1%" 12.2601()].3567*, '501()-1786.39(T)-16.7162(S)-9.00205()]TJU14.4229 -23.52 TdU[(A)2.58095()

4'/618-8)*%

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- E% EMT: C190/: ()45 ANSI C80%" '*- UL EJE%
- F% FMC: C190/: ()45 UL 1K A)*6#61'4.-,4../%
- \$\ LFMC: F/.<);/.,4../61*-8\4 ()45 PVC F'6>.4 '*- 61 9 0/:)*+ ()45 UL " 0\\
- H% M8/4)#61*-8641& C';/. 4:0. MC '*- AC: U, . 13 MC 1& AC 6';/.), *14 0.&9)44.- 8*-.& '*: 6)&689,4'*6.,8*/.,,0.6)3)6'//: '00&12.-)* (&)4)*+;:45. U*)2.&,)4:L, C5).3 E/.64&)6)'*%
- I% E/.64&)6'/ *1*9.4'//)6 48;)*+ GENT 1& M;/8. 48;.NH '*- /)?8)-#4)+54 3/.<);/. *1*9.4'//)6 61*-8)4 GLFNCH '&. *14 '66.04';/.31&8,.1*'*: P&1F.64%
- J% F)44)*+, 31& M.4'/C1*-8)4: C190/: ()45 NEMA FB 1 '*- UL!1=B%
 - 1% C1*-8)4 F)44)*+, 31& H'A'&-18, GC/',,)3).-H L16'4)1*,: C190/: ()45 UL 88 '*- NFPA E0%
 - 2% F)44)*+, 31& \$RC:

) 45/)1 E1*-844.2.4) 8

- '% M'4.&)'/: S4../%
- ;% T:O.: 45&.'-.-%
- "% F)44)*+, 31& PVC 61'4.- \$RC:
 - '% U& 45'*. 61'4)*+ 13 *19)*'/ 2 9)/ 45)6>*.,, ,5'// ;. 8*)31&9/: '*- 61*,),4.*4/: '00/).-41 45.)*4.&)1& 13 '//3)44)*+,%
 - ; % A// 3.9 '/. 45&.'-, 1*3)44)*+, '*-6180/)*+, ,5'//; . 0&14.64.-; : 8&.45'*. 61'4)*+%
- =% F)44)*+, 31& EMT:
 - '% M'4.&)'/: S4../%
 - ;% T:0.: 6190&.,,)1* I)*-11&,K6190&.,,)1* # 184-11&,%
 - 6% S.4,6&. (3)44)*+, '&. O&15);)4.-%
- !% F/.<);/. C1*-8)4: U,. 1*/: 3)44)*+, /),4.- 31& 8,. ()45 3/.<);/. 61*-8)4% C190/: ()45 NEMA FB 2%20%
- % E<0'*,)1* F)44)*+,: PVC 1&,4../41 9'465 61*-8)44:0.76190/:)*+ ()45 UL !17 &'4.-31&.*2)&1*9.*4'/61*-)4)1*, (5.&.)*,4'//.-7'*-)*6/8-)*+3/.<);/..<4.&*'/;1*-)*+F890.&%
- O% J1)*4 C19018*- 31& IMC 1& \$RC: A00&12.-7 ', -.3)*.-)* NFPA E07 ;: '8451&)4).70731229 ())4.71247 (4)-11.

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^{2%}

P1>.#45&8;1<3)44)*+,,5'//9')*4')* '9)*)989 4(1#518&3)&.&'4)*+%

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- C% M)*)989 R'6. (': S)A.: "/=#)*65 4&'-.,)A. 31&;&'*65 6)&68)4,7 one-inch embedded in slabs7 '*-five-inch for primary services% M'<)989 3)// 31&;&'*65 6)&68)4 61*-8)4,: "OS% M'<)989 3)// 31& 3..-.&61*-8)4,: 0.&61-.%
- D\% M\\ <\rd>* + -\rangle 33.\&\.*44:0.\, 13\;61*-8\rangle 4\,\rangle *-\rangle 6\rangle 9\rangle *'4./\:\rangle \rangle *45.\,\rangle 9\.\,\rangle \rangle 4.9\,\rangle \rangle 9\,\rangle *4.9\,\rangle 9\,\rangle 9\,\rangle *4.9\,\rangle 9\,\rangle 9\,\
- E% R'6. (': F)44)*+,: C190'4);/. ()45 & '6. (':, '*-,8)4';/. 31&8,. '*-/16'4)1*%
 - 1% R)+)- '*- I*4.&9.-)'4. S4../ C1*-8)4: U,. 45&.'-.- &)+)- ,4../ 61*-8)4 3)44)*+, 8*/.,, 145.&(),.)*-)6'4.-% C190/: ()45 NEMA FB 2%10%
 - 2% EMT: U, . ('4.&4)+54 61 9 0&.,,)1* 4:0.,4../3)44)*+, ()45)*,8/'4.- 45&1'4% C1 9 0/: ()45 NEMA FB 2%10%
 - "% F/.<);/. C1*-8)4: U, . 1*/: 3)44)*+, /),4.- 31& 8, . ()45 3/.<);/. 61*-8)4% C190/: ()45 NEMA FB 2%20%
- F% I*,4'//,8&3'6.&'6.(':, 1*/: (5.&.)*-)6'4.-1* D&'()*+,%
- \$\ \text{D1 *14} \text{*,4'} \text{*1*9 .4'} \text{\fighthat{661*-8}} \text{\fighthat{6.8. '9;}.*44.90.\&48\&..<6..., 120 -.+ F G=J -.+ CH\\}

"12 INSTALLATION

A% C190/: ()45 NECA 1 '*- NECA 101 31&)*,4'//'4)1* & .?8)& .9 .*4, .<6.04 (5.& . & .?8)& .9 .*4, 1* D&' ()*+, 1&)* 45), '&4)6/. '& .,4&)64.& C190/: ()45 NFPA E0 /)9)4'4)1*, 31& 4:0., 13 &'6. (':, '//1 (-84.16666 (&)-4.99834 (')020.3334 (')020.3334-4.99834 (%)-11.07 (0)0.43 (()9.7207 (4)0.356603 (')0.7'**.100

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- L% A// ,8,0.*,)1* ,:,4.9 , 98,4 ;. 58*+)*-.0.*-.*4/: 3&19 ,4&8648&.K MO)++:; '6>N ,8,0.*,)1* ,:,4.9 , 31& &'6.(':, '&. 0&15); \delta.-\%
- M% PVC R'6. (':, B./1 (S/';,:
 - 1% R8* 61*-8)4 /'&+.& 45'* 1#)*65 G2E#99H4&'-.,)A.7 O'&'//./ 1& '4 &)+54 '*+/., 41 9')* &.)*31&6.9.*4% W5.&.'4&)+54 '*+/., 41 8.)*31&6.9.*47 O/'6.61*-8)4 6/1,.41,/';,8001&4% S.68&.&'6.(':,41 &.)*31&6.9.*4 '4 9'<)98910#3114 G"#9H)*4.&2'/,%
 - 2% A&&'*+. &'6.`(':, 41 6&1,,;8)/-)*+.<0'*,)1*F1)*4, '4&)+54'*+/., ()45.<0'*,)1*3)44)*+,%
 - "% A&&'*+. &'6. (':, 41 > ..0 ' 9)*)989 13 ")*65., GE! 99H 1361*6&.4. .*6', .9.*4)* '//
 -\&.64)1*,%
 - =\(\text{D1 *14 .9 ; .- 45\&.'-/., 3)44}*+, \) * 61*6\&.4. 8*/., , , 0.6\3)6'//: '00\&12.- ;: 45. C5).3 \(\text{E/.64\&}\)6\' * 31\&. '65 , 0.6\3)6 /16' 4\1*\\ F\4\1+, \, 5'// ; .61*6\&.4. 4\.4\+54\\
- N\ PVC L'&+. D)' 9 .4.& R'6. (':, B.*-)*+ R'-)8,:
 - 1% F18&#)*65 61*-8)4: "!N 9)*)989%
 - 2% F)2.#)*65: !ON 9)*)989%
 - "% S)<#)*65: 1N 9)*)989%
- O% S48;#80, 41 A; 12. R.6.,,.- C.)/)*+,:
 - 1% U, . EMT 31& & '6. (':,%
 - 2% U,. '61*-8)4;8,5)*+1&)*,8/'4.-3)44)*+414.&9)*'4.,48;#80, *144.&9)*'4.-)* 58;, 1&)*'*.*6/1,8&.%
- P% T5&.'-.-C1*-8)4 J1)*4,7 E<01,.-41 W.47 D'907 C

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- B% J8*64)1*;1<., 13 -)33.&.*4,:,4.9,,5'//;.)-.*4)3).-;:61/1&,)*-)6'4.-;./1 (% B1< '*-612.&,5'//;.0')*4.-0&)1&41'44'65)*+)-.*4)3)6'4)1*/';./,%
- C% P&12)-. 0.&9'*.*4 *'9.0/'4., 31&'// 08//'*- F8*64)1*;1<.,)-.*4)3:)*+ 6)&68)4,7 21/4'+.7'*-,18&6.%
- D% W5.&. 61*-8)4), .<01,.-)* 08;//6 1&3)*),5.-'&.',745. 61*-8)4, ,5'//; .0')*4.-41 9'465 45.
 '-F'6.*4 ('// 1&6.)/)*+ 61/1&% A,,16)'4.-F8*64)1*;1<., '*-612.&,,5'//; .0')*4.-)*,)-.41
 9'465 N1&45 (.,4.&*,4'*-'&-61*-8)4 61/1&61-.; ./1 (%
- E% R'6.(':, '*-6180/.&, 13-)33.&.*4,:,4.9,,5'//;.)-.*4)3).-;:61/1&% R'6.(':, 80 41 =N,5'//5'2.) ## ! "%
 - 1% R'6. (':, 80 41 =N,5'//5'2.,1/)-61/1& ()45)* ./.64&)6'/&119, '*-2'8/4,%
 - 2% R'6. (':, /'&+.& 45'* =N ,5'//; .)-.*4)3).-;: 0.&9''*.*4 ,*'0#1* 61/1&;'*-,)*,4'//.-

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