FOR: ISSUED: 11/08/2018

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

\$ENERAL

- 1%1 RELATED DOCUMENTS
 - A% C1*-)4)1*, '*- D)2),)1* 01 S0.6)3)6'4)1* S.64)1*,7 '00/: 41 45), S.64)1*%
 - B% N1&45 (...,4.&* IT/IS S4'*-'&-, 31& &'6. (':, '*-6';/. 4&':, 31& T./.61998*)6'4)1*, 6';/)*+%
- 1%2 SUMMARY
 - A% S.64)1* I*6/8-.,:
 - 1% M.4'/61*-8)4,748; +7'*-3)44)*+,%
 - $\begin{array}{c} N1 * 9 . 4' / /) 6 \ 61 * 8) 4 , 7 \ 48 ;) * + 7 \ ' * \ 3) 4) * + , \% \\ M . 4' / \ () \& . \ (' : , \ ' * \ ' 8 <) /) ' \& : \ + 844 . \& , \% \end{array}$ 2%
 - "%
 - 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,: B%
 - D)2),)1*2 S.64)1* @U*-.&+&18*-D864, '*-R'6.(':, 31& E/.64&)6'/S:,4.9, 0 31&.<4.&)1& 1% -864; '*>,7 9 '*51/.,7 '*- 8*-.&+&18*- 84)/)4: 61*,4&864)1*%
 - N1&45 (..., 4. &* U*)2. &,)4: IT/IS S4'*-'&-, 31& O'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)*%

FOR: _____

- 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 '*-6190/:)*+ ()45 UL " 0%
- H% M8/4)#61*-8641& C';/. 4:0. MC '*- AC: U,. 13 MC 1& AC 6';/.), *14 0.&9)44.- 8*-.& '*:

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- $\begin{array}{l} \mathsf{F}'641\&:\#3'\;;\&)6'4.-\;'*-\#\;()\&.-\;',\,,.\;9\;;/:\;13\;;\,./1\;(\#3/11\&\;\mathsf{F8}^*64)1^*\;;1<\;()45\;\;9\;8/4)\#65'\;*^*./.\;-7\;\\ 45\&18+5\#3/11\&\&'6.\;(\;':/3)\&.\;,410\;8^*)4\;'^*-\;-.4'65'\;;/.\;\;9\;'465)^*+3/11\&\;,.\&2)6.\;\;184/.4\;',\,,.\;9\;;/:\&\;S4.\;./\;,.\&2)6.\;\;5.\;'-\;'^*-\;\mathsf{F8}^*64)1^*\;;1<\&''$ 1%
- 2%
- $P1>.#45\&8 \ ; 1<3)44)*+, \ , 5'//9')*4')*' \ 9)*)989 \ 4(1#518\&3)\&. \&'4)*+$ "%

- 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,: O.& 61-.%
- D% M)<)*+-)33.&.*44:0., 13 61*-8)4,)*-),6&)9)*'4./:)*45.,'9.,:,4.9), 0&15);)4.-%
- 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 6190&.,,)1* 4:0.,4../3)44)*+, ()45)*,8/'4.-45&1'4% C190/: ()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&'()*+,%
- \$% D1 *14)*,4'// *1*9.4'//661*-8)4 (5.&. '9;).*44.90.&'48&..<6..., 120 .+ F G=J .+ CHM

"%2 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(.-)*,0.6)3)6 16680'*6)., '*- *89;.&133/11&,%
- B% I*,4'//.&, 13 45. PVC#61'4. +'/2'*)A. &)+)-61*-8)4,:,4.9,5'//;.6.&4)3). ;:45. 9'*83'648&.& '*-;.';/.41 0&.,.*4'2'/)-78*.<0)&. - 6.&4)3). -)*,4'//.&6'&-0&)1&41,4'&4)*+)*,4'//'4)1*% A// 9'*83'648&.&L,6/'90)*+76844)*+745&.'-)*+7;.*-)*+7'*-',.9;/:)*,4&864)1*,,5'//;.31//1(.-
- C% O..O&'6.(':, '4/.',4)*65., G1!O99H'(': 3&19O'&'//./&8*, 133/8., '*-,4.'91&514# ('4.& 0)O.,% I*,4'//51&)A1*4'/&'6.(': &8*, ';12.('4.&'*-,4.'90)O)*+%
- D% W5.&.4(1 1& 91&.61*-8)4, '&. &8* 41+.45.&45.: ,5'//;.&'6>.-%U,.9)*)989 TN<2045&.'-.-&1-41,8001&4 MU&'0.A.N4:0.&'6>,%
- E% I*,4'//'4)1* 13 '// *. (61*-8)4, 98,4 ;. 9)*)989 12)*65., 3&19 6.)/)*+ +&)- .<6.04 (5.&. '00&12.- ;: 45. C5).3 E/.64&)6)'*%
- F% C190/.4.&'6.(':)*,4'//'4)1*;.31&.,4'&4)*+61*-8641&)*,4'//'4)1*%
- \$% C190/: ()45 &.?8)&.9.*4,)* N1&45(.,4.&* U*)2.&,)4: D.,)+* S4'*-'&-, 31& 5'*+.&, '*-,8001&4,%
- H% A&& '*+. ,48;#80, ,168&2.-01&4)1*, 13;.*-, '&.*142),);/. ';12.3)*),5.-,/';%
- I% I*,4'//*1 91&.45'*45..?8)2'/.*41345&..JO#-.+&..;.*-,)*'*:61*-8)4&8*.<6.0431&61*4&1/
 ()&)*+61*-8)4,731&(5)653.(.&;.*-,'&.'//1(.-% S8001&4()+5)*12)*65.,6"0099H13
 65'*+.,)*-)&.64)1*%</pre>
- J% C1*6. '/ 61*-8)4 '*- EMT ()45)* 3)*),5.- ('//,76.)/)*+,7 '*- 3/11&, 8*/.,, 145.&(),.)*-)6'4.-% I*,4'// 61*-8)4, 0'&'//./1& 0.&0.*-)68/'&41;8/-)*+/)*.,%
- O% S8001&4 61*-8)4 ()45)* 12)*65., G"00 9 9 H 13.*6/1,8&., 41 (5)65 '44'65.-%

- 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);)4.-%
- M% PVC R'6. (':, B./1 (S/';,:
 - 1% R8* 61*-8)4 /'&+.& 45'* 1#)*65 G2E#99H 4&'-. ,)A.7 O'&'//./ 1& '4 &)+54 '*+/., 41 9')* &.)*31&6.9.*4% W5.&. '4 &)+54 '*+/., 41 &.)*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 13 61*6&.4. .*6', .9.*4)* '//
 -)&.64)1*,%
 - =% D1 *14 .9; 45& '-/., 3)44)*+,)* 61*6& 4. 8*/., 0.6)3)6'//: '00&12.-; : 45. C5).3 E/.64&)6''* 31& '65, 0.6)3)6'/16'4)1*% F)44)*+, 5'//; .61*6& 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)*+ 41 4.&9)*'4.,48;#80, *14 4.&9)*'4.-)* 58;, 1&)* '*.*6/1,8&.%
- P% T5&.'-.-C1*-8)4 J1)*4,7 E<01,.-41 W.47 D'907 C

- D% W5.&. $61^* 8)4$), .<01, .-)* 08;/)6 1&3)*),5.- '&.',7 45. $61^* 8)4$, ,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. (':, 8041 = 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'//.-