

.1 "XX X12 31X " !G P4P GDP 65P "XX" 615 2G#515#G12636P615 (+ "5# (6 "5# 23G G
31PG G016 GDG5 P #6..G . 1D 3G G016 GDG5 P# 615' 3G D1 G P 65!G5 P3"XX
!13G 58

%8)(CTOA2OU2C' UI7E0OTSAC' OA2 MB2IC UIQUIIAM

O8 T3G .1XX1265! C "5#" #P' UG!1X" 615P "5#IM4#GP 21 5 PLG-6.6G# 65 3G M15 "-
28-10G5P8/XG C " G "5# 01-"X M1#GP8

(8 M"X6.1 56" 416X#65! M1#G "5# M"X6.1-56"MMG' M1 G5 I#6 615P8

*8 4SMCS T2NN 8TGXG-1DD156-" 615P 26P 6/1 615PNO"31"X9' %% 3I#6 615 ()):8

;8 OACS<TSO<ISO9&: 6948%8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #'

&8 OACS<TSO<ISO9&: 6948%9(8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #'

= " %> 7G5G "X UG016 GDG5 P' O##G5#1D (' 7 115#65!5#65! CLG-6.6-" 615P .1
C- GG5G# 4"X"5-G# T26P G#9="6 71 6?15 "X M"/X65!8

:8 OACS<TSO<ISO9&: 6948%9*8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #8

+8 OACS<TSO<ISO9&: 6948%9;8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #'

= " %> 7G5G "X UG016 GDG5 P' O##G5#1D ;' UG5150M6 G!1 4: "5# M" G!1 4 M"
:O "5# &) 5D 0"PG 9BL 6D6?G# &)<%(& 1D N1X 6D1#G BL"X Q6/G M"/X65!8

68 OACS<TSO<ISO9&: 6948%9(8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #'

= " (> 4"X"5-G# T26P G#9="6 M"/X65! M1DL15G5 P8

@8 OACS<TSO<ISO9&: 6948(9%8 M1DDG -6"X 416X#65!DT6X-" 615P M"/X65! C "5#" #'

= " (> 4"X"5-G# T26P G#9="6 M"/X65! M1DL15G5#1D%' T "5PD6PP615
=G .1 D"5-G CLG-6.6-" 615P .1 ;9="6 %) B3D M! M"/X65!8

%)8 OACS<TSO<ISO9&: 6948(9%) 8# ". (8)98 M1DDG#65! TGXG-1DD156-" 615P M"/X65!

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T "5PD6PP615 =G .1 D"5-G CLG-6.6-" 615P .1%) B3D O1!DG5 G# M" G!1 4:
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%%8 OACS<TSO<ISO9&: 694*8* BL 6-"X Q6/G M1DL15G5#1D "5#" #8

%(8 TSO9&:@948 M1DDG -6"X 416X#65! C "5#" #G-1DD156-" 615P =" 32"4P "5# CL"-GP8

%*8 OACS<TSO<ISO9&: 908 O#D656P " 615 C "5#M1DDG -6"X TGXG-1DD156-" 615P

S5. "P 1- 1 G8

%;8 OACS<TSO<ISO9&: 908 M1DDG -6"X 416X#65! 815# 365! 9 "5# 415#65!

UG016 GDG5 P .1 TGXG-1DD156-" 615P8

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PART 3 - EXECUTION

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SECTION (+ ,))
COMMON - OR. RESULTS FOR COMMUNICATIONS

PART 1 - GENERAL

/.) / SUMMARY

- A. This se0tion spe0ifies the 2"si0 m"te i"ls "n# metho#s lo "ll lo3 4olt"!e p"th3"5s inst"ll"tion 3o 6 in017#e# 7n#e Di4ision (+ "n# (8 "n# 3he e those e97i ements #i1le 1 om the e97i ements o1 this se0tion' the mo e st in!ent sh"ll !o4e n.
- B. This se0tion "##s elinements to Di4ision (: th"t "ppl5 to Comm7ni0"tions "n# e;t "-lo3-4olt"!e s5stems.

/.) (SCO%E

- A. M"te i"ls "n#<o metho#s lo the lollo3in!.

/E ##s1.5(e)7.2586423()0.50782 - 14.52 TdO 5- 22229(() - 2.6960) - 2.6983(1)0.069169677[(AI!)
6986(l)11.19temEp! 3.4664()14.4 TLOT*dO[(\$)0.69926(C) - 0.630133(l)2301773(")507852083(O) - (M) - 5.34151>MEC/M -)

- *. All ne3 0on#7its sh"ll 2e siDe# "00o #in!l5 to "0hie4e " &)E m";im7m lill "tio 3ith initi"l 0"2les inst"lle#.

B. INNERDUCT

- /. O "n!e 0o 7!"te# HD%E @hi!h Densit5 %ol5th5leneA Inne #70t sh"ll 2e 7se# 1o 1i2e opti0 0"2le p ote0tion in inte io lo0"tions.
- (. F"2 i0 m7lti-0ell inne #70t is "pp o4e# 1o 7n#e ! o7n# 0on#7its (F "n# l" !e .

C. FITTING

- /. See Di4ision (: 1o e97i ements.
- (. Con#7it 2o#ies "n# "n5 sh" p 2en# littin!s " e st i0t15 p ohi2ite# 1o 0omm7ni0"tion C"t: A "n# 1i2e opti0 0"2les. App op i"te 0on#7it s3eeps " e e97i e#.

D. %ULL LINE

- /. Minim7m /<8G #i"mete 'o l" !e 2

PART 3 - EXECUTION

*.)/ COMMUNICATION SERVICES

A. Inst"ll 7n#e ! o7n# 2o;es' 0on#7its' "n# te min"

- E. S7ppo tsf S7ppo t 0on#7it 3ith t3o-hole st "ps o st 7t 0h"nnel 3he e sho3n in #esi!n #o07ments "n#<o spe0i1ie#. Co0 #in"te s7ppo ts 3it

A. S0 e3s sh"ll 2e 7se# to "tt"0h 2o;es' "n# m7st 2e "007 "tel5 pl"0e# lo 1inish' in#epen#entl5 "n# se07 el5 s7ppo te# 25 "#e97"te 3oo# 2"06in! o 25 m"n71"0t7 e# "#87st"2le 0h"nnel t5pe he"45-#7t5 2o; h"n!e s.

/. Bo;es sh"ll 2e "tt"0he# to met"l st7#s 3ith met"l 2o; h"n!e s.

(. Bo;es inst"lle# in m"son 5 tile o 0on0 ete 2lo06 0onst 70tion sh"ll 2e se07 e# 3ith "7;ili" 5 pl"tes' 2" s o 0lips "n# 2e ! o7te# in pl"0e.

B. Lo0"te o7tlets "t the lollo3in! hei!hts 7nless othe 3ise note# on D "3in!s' Spe0i1i0"tions' 07 ent CBC o "s e97i e# to meet ADA h"n#i0"p e97i ements.

/. D"t" O7tlets; S"me hei!ht "s ele0t i0"l o7tlets

(. Telephone - "ll O7tlets; A2o4e 0o7nte <2"06spl"sh hei!ht o "t ele0t i0"l s3it0h hei!ht.

C. Bo;es sh"ll 2e pl"0e# 3ithin /8F o1 ele0t i0"l o7tlets.

D. Fo so7n# 0ont ol' sep" "te o7tlets on opposite si#es o1 3"lls /: G minim7m. - he e o7tlets " e less th"n /: G o in so7n# "te# 3"lls' se"l "i ti!ht 3ith li e "te# sheet p7tt5 p"#s. Fill !"p 2et3een 87n0tion 2o; "n# 3"ll 3ith "0o7sti0"l se"l"nt "ll " o7n# pe imete o1 87n0tion 2o;. Fill 0on#7its l" !e th"n / /<&G 3ith li e "te# p7tt5.

E. Inst"ll"tion o1 0on#7it "n# o7tlet 2o;es in li e- existi4e 3"lls' 1loo s' 1loo -0eilin! o 0o1-0eilin! "ssem2lies sh"ll 0ompl5 3ith Title (&'%" t (' Se0tion +/*.

*.): UNDER=ROUND BOHES

A. To 2e inst"lle# pe Di4ision (: e97i ements.

B. % o4isions to 2e m"#e lo s7ppo tin! 0"2les 1 om the 2o; si#es @.e.' B-hoo6s' #- in!sA

*.)+ SLEES\$ES AND CONDUIT %ENETRATIONS

A. - he e 0on#7it p"sses th o7!h 3"lls' 0eilin!s' o 1loo s 3ith 0onne0tion points to 87n0tion 2o;es o "0e3"5s mo7nte# to the s"me 3"ll "s the penet "tion p o4i#e " th e"#e# 0on#7it "n# se07 e# in pl"0e 3ith lo06in! in!s on 2oth si#es. Ben# "#i7s e97i ements sh"ll 2e m"int"ine# 3he e penet "tions " e m"#e th o7!h the 2"06 o1 "0e3"5sMB7n0tion 2o;es 3ith "#e97"te #epth sh"ll 2e inst"lle# to 0ompl5 3ith this e97i ement.

B. - he e 0on#7it p"sses th o7!h 3"lls' 0eilin!s' o 1loo s 3ith 0onne0tion points to 87n0tion 2o;es o "0e3"5s not mo7nte# to the s"me 3"ll "s the penet "tion' p o4i#e EMT 0on#7it "n# se07 e# in pl"0e 3ith st 7t 0h"nnel. Bo; 0onne0to s sh"ll "l3"5s 2e 7se# to 0onne0t EMT to 87n0tion 2o;es "n# "0e3"5s.

C. FIRE STOPS

- /. See "Fire Stopping Requirements" in the 2013 California Building Code (CBC) and the 2013 California Fire Code (CEC). See Division 7, Section 707.05.1 for more information.

D. DRAFT STOPS

- /. All non-fire stops must be approved by the Fire Department before installation. See the Fire Department's Draft Stopping Requirements for more information.

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PART 1 – GENERAL

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PART 2 – PRODUCTS

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APPENDIX A – Pre-A r!"e# \$%&er'%)

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Re%r Per2! r%&e# D! 3-(e D!!r	C0%&) 1! r&0	26350-701
4%((\$! 3. & C%-'. e& 485	DA\$AC	4SR48ABP1666-3GP
20 A\$P P! 1er S&r'	DA\$AC	P0828G\$201
197 R%+, \$! 3. & Gr! 3. # B%r	DA\$AC	ARGB019
C! . +re&e *(!! r R%+, 8'&	DA\$AC	ARR*C8-58
*%. 8'& E. +(!)3re	DA\$AC	AT*82
Gr! 3. #' . 9 S&r% 8'&	DA\$AC	PLA12G8
127 L%##er R%+, 10:	DA\$AC	PLR1210-3
L%##er R%+, 4%((A. 9(e S3 !r& 127	DA\$AC	PLBA12-3
L%##er R%+, ;3. +&! . P(%&e	DA\$AC	PLB12RS-3
L%##er R%+, Pr! &e+&'e E. # C%)	DA\$AC	PLAEC
195 <! r'=! . &%(C%- (e \$%. %9er	DA\$AC	*533-1901
P%&+0 P%. e(24- !r& 1-RU >B(%+, ?	Or&r! . '+)	OR-SP8SU24
P%&+0 P%. e(48- !r& 2-RU >B(%+, ?	Or&r! . '+)	OR-SP8SU48
*%+e (%&e@2- !r& >40'&e?	Or&r! . '+)	8S*P2-88

A% Co'''(*'/'o(s *3e &o/*'e+ 4# # ' >0 \$#es o(&ess 0(o\$ ' e p(o&e/' s#e 'o s2ppo(' 2- o2((espo"se '#\$e%

!% F#7e 6e*(s@e:pe(#e"/e #'s'*&#') +**' "e'4o(5 e12#p\$e''' **+ s6s'e\$s%

1%0> SYSTEM REQUIREMENTS

A% A"6 "e4 #'s'*&*'#o"s o(e:#s'#') s6s'e\$ \$o+#0#/'#o"s s *&se*\$&ess& #''e)(*'e #' 'o ' e s#e@s e:#s'#') +**' "e'4o(5 #'0(*s'(2/'2(e%

1%0A CONTRACTOR BSHOP DRAWIN=SC DESI=N REQUIREMENTS

A% See se/'#o" 27 00 00 0o((e12#(e\$e'''s%

1%07 SU! MITTALS

A% See se/'#o" 27 00 00 0o((e12#(e\$e'''s%

1%0D WARRANTY

A% Re0e('o D#7#s#o" 01 W*((**'6 se/'#o''%

!% See se/'#o" 27 00 00 0o(*++#'#o''*&(e12#(e\$e'''s%

1%0E CLOSEOUT DOCUMENTS

A% See se/'#o" 27 00 00 0o((e12#(e\$e'''s%

PART 2 - PRODUCTS

1% Co'''(*/'o(- p(#o('o s23\$#'') * p(opos*& s *e+e'(\$#'e p(o+2/' *7*#*3#6 *''+
+e#7e(6 '#\$e- *''+ s *e#'/2+e s2/ /o''s#e(*'#o''s #'o #s p(opose+ Co'''(*/' T#\$e%

2% S23e/' 'o /o\$P#''/e 4# ' ese spe/#0#/'#o''s- p(o+2/'s *''+ s6s'e\$ s #'/2+e+ #' ' #s
se/'#o'' *(e 'o 3e #'s' *e+ *s spe/#0#e+ 36 ' e \$''20*/'2(e(o0' e s6s'e\$ o(e'')#'ee(
pp(o7e+ e12#%

202 EQUIPMENT

A% T e D#s'(#/'@ p(e)e((e+ \$''20*/'2(e(0o(9

1% Ro2'e(s - C#s/o

2% F#(e4 *#s - C#s/o

.% Ne'4o(5#') S4#/ es H C#s/o ;A(23* 2''+e(e7*2*'#o''<

?% W#(e#ess A//ess Po#''s - C#s/o ;A(23* 2''+e(e7*2*'#o''<

PART 3 - EXECUTION

.%01 ACCEPTABLE INSTALLERS

A% T e e12#p\$e''' s *o''% 3e #'s'*e+ 36 Co'''(* /

C% Co\$P6 4# #) es' #' +2s'(6 s'***+*(+s- e:/ep' 4 e" spe/#0#e+ (e12#(e\$e'''s #' +#/*'e \$o(e (#)#+ s'***+*(+s o(\$o(e p(e/#se 4o(5\$***s #p%

D% Pe(0o(\$ Wo(5 4# pe(so's e:pe(#e"/e+ ***+ 12*#0#e+ 'o p(o+2/e 4o(5\$***s #p spe/#0#e+%

E% M*#***# 12*#6 /o'''(o&o7e(s2pp#e(s ***+ S23/o'''(*/'o(s%

.%0A PATHWAY AND EQUIPMENT INSTALLATION

A% I's'*&*&/o''+2# ***+ p*' 4*6 pe(+es#)'' +o/2\$e'''s%Rele('o 27 0> 00 0o(*++# #o''*& #'0o(\$*' #o''G(e12#(e\$e'''s%

!% I's'*&*&C''AA /*3&e pe(+es#)'' +o/2\$e'''s%Rele('o 27 1> 00 0o(*++# #o''*& #'0o(\$*' #o''G(e12#(e\$e'''s%

C% E12#p\$e''' 'o 3e #'s'*&e+ pe(\$''20*/'2(e@ #'s'(2/'#o''s%

D% De7#/es (e12#(#') PoE po4e(s *&3e /o'''e/'e+ 'o * PoE s4#/ #' ' e MDFGIDF +*** (* /5 H 7e(#6 4# Te/ ''o&o)6 Se(7#/es 0o(*7*#*3& PoE po4e(%

.%07 CONF=URATION

A% A''6 #'0o(\$*' #o'' ''ee+e+ 0(o\$ ' e D#s'(#/' 0o(/o''0#)2(*' #o'' o0 e12#p\$e''' ;#e%, LAN- e'/% ''ee+s 'o 3e (e12es'e+ #' 4(#'') 2 4ee5s p(#o(%

!% A&&e12#p\$e''' 'o 3e 02&&6 /o''0#)2(e+ ***+ 'es'e+ 0o(02''/'#o''*#6 36 ' e Co'''(*/'o(p(#o('o D#s'(#/' *//ep'***/'e 'es'#')%

.%0D FIELD QUALITY CONTROL AND TESTIN=

A% Upo'' (e*/ #') s23s'***#&/o\$ple'#o''- pe(0o(\$ * /o\$ple'e 'es' ***+ #'spe/'#o'' o0 ' e s6s'e\$% 10 0o2''+ 'o 3e #'s'*&e+ ***+ ope(*'#') p(ope(#- ''o'#6 ' e D#s'(#/'0o3e/++oe 'o

.%0 AS-! UILT DRAWIN=S

A% See se/'#o" 27 00 00 lo((e12#(e\$e"'s%

SECTION * +, %) .+(
EDUCATIONAL INTERCOM SYSTEMS

PART I - GENERAL

1.1 SUMMARY

A. This section specifies equipment to be installed on the Bell system. This system shall provide the ability to dial the number of the telephone to be called. The system shall be capable of dialing the number of the telephone to be called.

1.2 SCOPE

A. The work shall include the installation of the equipment in the telephone room. The work shall include the installation of the equipment in the telephone room. The work shall include the installation of the equipment in the telephone room. The work shall include the installation of the equipment in the telephone room.

.(H AUALIFICATIONS

B. Cont "-to sh"ll 2e lo-"te# 1 ithin +(miles o less

%. (, >ENERAL

- A. The "pp o6e# m"n0."-t0 e s.o the p o;e-t " e<
 - ,. Cont ol Onit "n# el"te# "--esso ies<R"0l"n# Tele-ente U
 - %. Spe"7e s<See Appen#i= A .o #i..e ent inst"ll"tion t5pes
 -). Ci e' -"2le' "n# "--esso ies<See Appen#i= A.

- B. All p o#0-ts sh"ll 2e ne1' On0se# "n# 1 itho0t 2lemishes "n# sh"ll 2e o. m"n0."-t0 e ?s
 - 0 ent "n# st"n#" # p o#0-tion.

- C. D "1in!s "n# Spe-i.i-"tions in#i-"te m";o s5stem -omponents' "n# m"5 not sho1 e6e 5
 - omponent' -onne-to ' mo#0le' o "--esso 5 th"t m"5 2e e/0i e# to s0ppo t the ope "tion
 - spe-i.ie#. The Cont "-to sh"ll p o6i#e "ll -omponents nee#e# .o -omplete "n# s"tis."-to 5
 - inst"ll"tion "n# ope "tion.

- D. 4 o#0-t A6"il"2ilit5
 - ,. The Cont "-to ' p io to s02mittin! " p opos"l' sh"ll #ete mine p o#0-t "6"il"2ilit5 "n#
 - #eli6e 5 time' "n# sh"ll in-10#e s0-h -onsi#e "tions into his p opose# Cont "-t Time.
 - %. S02;e-t to -ompli"n-e 1 ith these spe-i.i-"tions' p o#0-ts "n# s5stems in-10#e# in this
 - se-tion " e to 2e inst"lle# "s spe-i.ie# 25 the m"n0."-t0 e o. the s5stem o en!inee
 - "pp o6e# e/0"l.

%. (% EAUI4MENT

- A. See Appen#i= A "t the en# o. this #o-0ment .o p e-"pp o6e# m"te i"ls.

- B. S02stit0tions e/0i e p oo. o. e/0i6"len-e "n# p io "pp o6"l 25 Dist i-t "n#3o it?s
 - ep esent"ti6e 2e.o e o #e in!.

- C. M"in s5stem -omponents<
 - ,. R"0l"n# Tele-ente U l4 C"mp0s Cont olle "n# so.t1" e
 - %. R"0l"n# Tele-ente U A0=illi" 5 Inp0t300tp0t Mo#0le
 -). R"0l"n# Tele-ente U %D-po t >"te1"5
 - D. R"0l"n# Tele-ente U l4 Cl"ss oom Mo#0le
 - +. R"0l"n# Tele-ente U A#minist "ti6e Console
 - E. R"0l"n# Tele-ente U 4 o! "m Line Inp0t Mo#0le

PART 3 - EXECUTION

3.1 ACCEPTABLE INSTALLERS

- A. The equipment shall only be installed by a contractor who is licensed by the State of California as a contractor in the State of California.
- B. The contractor shall be bonded in the amount of \$100,000.00 by a surety company licensed by the State of California.

3.2 EXAMINATION

- A. The contractor shall be responsible for obtaining all necessary permits and approvals for the installation of the system. The contractor shall be responsible for obtaining all necessary permits and approvals for the installation of the system. The contractor shall be responsible for obtaining all necessary permits and approvals for the installation of the system.

- B. The Cont "-to sh"ll -oo #in"te 1ith the Dist i-t?S IT Dep" tment i. -onne-tin! to thei net1o 7. The Cont "-to sh"ll p o6i#e " sp e"#sheet o. "ll #e6i-e MAC "## esses in#e=e# 25 #e6i-e lo-"tion to the Dist i-t IT #ep" tment to ."-ilit"te p o! "mmin! o. ese 6e# 14 "## esses .o e"-h #e6i-e.
- C. Inst"ll"tion sh"ll 2e in "--o #"n-e 1ith "ppli-"2le -o#es 9i.e. NEC' NF4A *%: lo-"l "n# st"te -o#es' "s sho1n on the # "1in!s' "n# "s e-ommen#e# 25 the m";o e/0ipment m"n0."-t0 e .
- D. 4e .o m "ll Co 7 "s in#i-"te# in the D "1in!s "n# Spe-i.i-"tions.
- E. All lo1 6olt"!e -"2les sh"ll 2e 7ept "1"5 . om po1e -i -0its.
- F. Cont "-to sh"ll p o6i#e p o! "mmin! "n# -on.i!0 "tion o. the E#0-"tion"l Inte -om s5stem .o .0ll .0n-tion"lit5.
- >. Cont "-to sh"ll m"int"in " -omplete' Op-to-#"te 2"-70p o. the s5stem -on.i!0 "tion. B"-70p sh"ll 2e m"int"ine# th o0!ho0t the p o! "mmin! pe io# Ontil .in"l A--ept"n-e 25 Dist i-t. S02mit 2"-7-0ps to Dist i-t Opon Fin"l A--ept"n-e.

).(E LABELIN>3SCHEDULES

- A. All l"2els " e to 2e m"-hine !ene "te# 2l"-7 lette s on 1hite "#hesi6e l"2el sto-7 th"t is "pp op i"te .o the inst"ll"tion en6i onment 9inte io 3e=te io .:
- B. L"2el "ll st"n#" # spe"7e -"2les 1ith po t ID.
- C. L"2el "ll spe"7e s 1ith spe"7e ID.
- D. L"2el "ll l4 spe"7e s 1ith MDF3IDF' p"t-h p"nel "n# ;"-7 n0m2e s.

).(H CONFURATION

- A. All e/0ipment to 2e .0ll5 -on.i!0 e# "n# teste# .o .0n-tion"lit5 p io to testin!.

),.(FIELD AUALITY CONTROL AND TESTIN>

- A. Upon e"-hin! s02st"nti"l -ompletion' pe .o m " -omplete test "n# inspe-tion o. the s5stem. l. .o0n# to 2e inst"lle# "n# ope "tin! p ope l5' noti.5 Dist i-t o. 5o0 e"#iness to pe .o m the .o m"l Test J Inspe-tion o. the -omplete s5stem.
- B. S02mit the Re-o # D "1in!s 9"s-20ilts: to Dist i-t .o e6ie1 p io to inspe-tion.

- C. DO in! the .o m"! Test J Inspe-tion 9Commissionin!: o. the s5stem the Cont "-to sh"ll h"6e pe sonnel "6"il"2le 1ith tools "n# e/0ipment to inspe-t 1i in!' #e6i-es' "n# s5stem ope "tion.
- D. l. -o e-tions " e nee#e#' the Cont "-to 1ill 2e p o6i#e# 1ith " 40n-h-List o. "ll #is- ep"n-ies. 4e .o m the nee#e# -o e-tions in " timel5 ."shion.
- E. Noti.5 the Dist i-t 1hen e"#5 to pe .o m " e-inspe-tion o. the inst"ll"tion.
- F. Dist i-t o its ep esent"ti6e to p o6i#e .in"l si!n-o.. .o "--ept"n-e.

),,, AS-BUILT DRACIN>S

- A. See se-tion %* ((((.o e/0i ements.
- B. As-20ilt ise #i"! "m sho1in! "ll "--ess -ont ol -omponents .o site.

),,% TRAININ>

- A. Fo ne1 s5stems p o6i#e &-h s en#-0se t "inin!.
- B. Fo e-istin! s5stem Op! "#es p o6i#e %-h s en#-0se t "inin!.

APPENDIX A - Pr -A!!r"# \$ M%& r'%)

DESCRIPTION	M*G	PART NUMBER
IP C%, !-) C".&r"((r%. \$)"/&O%r 1(2 .))	R%-(%. \$ T (2 .& r U	

SECTION %* +) ,)
CLOC- SYSTEMS

PART I - GENERAL

,.(, SUMMARY

A. This se.tion spe.i/ies e01ipment' ". .esso ies' m"te i"ls' 2i e' inst"ll"tion' .on/i!1 "tion'
"n# testin! e01i ements /o " .omplete "n# ope "3le Clo.4 s5stem.

,.(% SCO6E

A. The 2o 4 2ill in.l1#e 31t not 3e limite# to the /ollo2in! o37e.ti8es9

,. L"3o "n# M"te i"ls9 The Cont ".to sh"ll p o8i#e "n# p"5 /o "ll l"3o 's1pe 8ision'
m"te i"ls' ". .esso ies' .omponents' e01ipment' tools' t "nspo t"tion' "n# othe
/" .ilities "n# se 8i.es ne.ess" 5 /o the p ope inst"ll"tion o/ " t1 n-4e5 Clo.4 s5stem to
the Dist i.t.

%. The .ont ".to 2ill .oo #in"te 2ith the Dist i.t in 2 itin! /o "n5 nee#e# in/o m"tion
:i.e. l6 "## esses' et.; , (31siness #""5s p io to #""te the in/o m"tion is nee#e#.

). Clo.4 s5stem e01ipment9 In.l1#es' 31t is not limite# to9
". Clo.4s
3. M"ste Clo.4 o NT6 se 8e ". .ess
.. <i e

+. Ne2 .onst 1.tion sh"ll 1tili=e l6 3"se# #i!it"l .lo.4s th"t " e po2e e# 35 " 6oE #""t"
s2it.h in the ne" est MDF>IDF. Clo.4s sh"ll s5n.h oni=e to " net2o 4 time p oto.ol
:NT6; se 8e "s #ete mine# 35 the Dist i.t.

?. l6 .lo.4s " e to 1se Dist i.t st"n#" # net2o 4 ."3lin!' see Se.tion %* , ((.

PART 3 - EXECUTION

).(, ACCE6TABLE INSTALLERS

),,, AS-BUILT DRAWINGS

A. See section 01 50 00 for details.

APPENDIX A – Pre-Approved # M\$er\$(\$

DESCRIPTION

M)G