SECTION 01 7300 EXECUTION

PART 1 - ! ENERA"

NORTHWESTERN UNIVERSITY

4# A'$ /$ * 7 /; , <%$$',$*#
+# F'$, *6. .$,**'/(*8*2,7*#
,# M,43%('4%- *8*2,7* .'.'() %(+ +642*#
1# C/(2$/- *8*2,7*#
)# C/7 7 6('4%2'/(*8*2,7*#
3# F'$, +,2,42'/(%(+ %-%$7 *8*2,7*#
'# C/(0,8'() *8*2,7*#
A# E-,42$'4%- &'$'() *8*2,7*#
;# O.,$%2'() *8*2,7* /1 *.,4'%- 4/(*2$642'/(#
-# IInsert operating systemJ#

3# O23,$ C/(*2$642'/(E-,7,(2*: D/ (/2 462 %(+ .%243 /23,$ 4/(*2$642'/(,-,7,(2* /$ 4/7 ./(,(2* '(% 7%((,$ 23%2 4/6-+ 43%(), 23,'$ -/%+ 4%$$8'() 4%.%4'285 23%2 $,*6-2* '($,+64'() 23,'$ 4%.%4'28 2/ .,$1/$7 %* '(2,(+,+5 /$ 23%2 $,*6-2* '('(4$,%*,+ 7%'(2,(%(4, /$ +,4$,%*,+ /.,$%2'/(%- -'1, /$ *%1,28#G Other construction elements include but are not limited to the following:H

%# W%2,$5 7/'*26$,5 /$ 0%./$ <%$$',$*#
<# M,7<$%(,* %(+ 1-%*3'()*#
4# E:2,$'/$ 46$2%'(&%-- 4/(*2$642'/(#
+# S.$%8,+ 1'$, $,*'*2'0, 7%2,$'%-#
,# E96'.7,(2 *6..$2*#
1# P'.'()5 +642&/$;5 0,**,-*5 %(+ ,96'.7,(2#
)# N/'*, %(+ 0'<$%2'/(4/(2$/-,-,7,(2* %(+ *8*2,7*#
3# IInsert miscellaneous elementJ#

=# V'*6%- E-,7,(2*: D/ (/2 462 %(+ .%243 4/(*2$642'/('(% 7%((,$ 23%2 $,*6-2* '(0'*6%-,0'+,(4, /1 4622'() %(+ .%243'()# D/ (/2 462 %(+ .%243 ,:./*,+ 4/(*2$642'/('(% 7%((,$ 23%2 &/6-+5 '(A$43'2,42K* /.'('/(5 $,+64, 23, <6'-+'()K* %,*23,2'4 96%-'2',*# R,7/0, %(+ $,.-%4, 4/(*2$642'/(23%2 3%* <,,(462 %(+ .%243,+ '(% 0'*6%--8 6(*%2'*1%42/$8 7%((,$#

C# M%(61%426$,$K* I(*2%--%2'/(I(*2$642'/(*: O<2%'(%(+ 7%'(2%'(/(*'2, 7%(61%426$,$K* &$'22,($,4/7 7,(+%2'/(* %(+ '(*2$642'/(* 1/$ '(*2%--%2'/(/1 .$/+642* %(+ ,96'.7,(2#

PART 2 - PRODUCTS

2#1 MATERIA"S

A# !,(,$%-: C/7.-8 &'23 $,96'$,7,(2* *.,4'1',+ '(/23,$ S,42'/(*#

1# F/$.$/A,42* $,96'$'() 4/7 .-'%(4, &'23 *6*2%'(%<-, +,*')(%(+ 4/(*2$642'/(.$%42'4,* %(+ .$/4,+6$,*5 6*, .$/+642* 1/$.%243'() 23%2 4/7 .-8 &'23 $,96'$,7,(2* '(S,42'/(01@113#13 CS6*2%'(%<-, D,*')(R,96'$,7,(2* "EED 1/$ N,& C/(*2$642'/(%(+ M%A/$ R,(/0%2'/(*5C

B# I(P-%4, M%2,$'%-*: U*, 7%2,$'%-* 1/$.%243'() '+,(2'4%- 2/ '(.-%4, 7%2,$'%-*# F/$,:./*,+ *6$1%4,*5 6*, 7%2,$'%-* 23%2 0'*6%--8 7%243 '(.-%4, %+A%4,(2 *6$1%4,* 2/ 23, 16--,*2 ,:2,(2./**'<-,#

1# I1 '+,(2'4%- 7%2,$'%-* %$, 6(%0%'-%<-, /$ 4%((/2 <, 6*,+5 6*, 7%2,$'%-* 23%25 &3,('(*2%--,+5 &'-- .$/0'+, % 7%243 %44,.2%<-, 2/ A$43'2,42 1/$ 23, 0'*6%- %(+ 16(42'/(%- .,$1/$7%(4, /1'(.-%4, 7%2,$'%-*#

NORTH
PTH2995 7 028 (E) -4 . 2824 7 1C (T) -10 . 186 7 (H) 2915521 NAM_____ F
J (H2995 7 028 (R) 0 . 62191B) -4 . 2824 7 1 # _____

C/(*2$642'/(E96'.7,(2: A--4/(*2$642'/(,96'.7,(2 6*,+/(23, N/$23&,*2,$(U('0,$*'28 4%7 .6*,*'* $,96'$,+2/ 3%0, T',$ = F'(%- ,7'**'/(* 4/(2$/-2,43(/-/)8#

! # T,7.-%2,*: O<2%'(%(+ +'*2$'<62, 2/ 23, .%$2',*'(0/-0,+2,7.-%2,*1/$ &/$; *.,4'1',+2/ <, 1%42/$8 .$,.%$,+ %(+ 1',-+ '(*2%--,+# C3,4; S3/. D$%&'()* /1 /23,$ &/$; 2/ 4/(1'$7 23%2 %+,96%2, .$/0'*'/(* %$, 7%+, 1/$-/4%2'() %(+ '(*2%--'() .$/+642* 2/ 4/7.-8 &'23 '(+'4%2,+$,96'$,7,(2*#

H# A22%437,(2: P$/0'+, <-/4;'() %(+ %22%437,(2 .-%2,*%(+ %(43/$* %(+1%*2,(,$* /1%+,96%2, *'M, %(+ (67<,$2/ *,46$,-8 %(43/$,%43 4/7./(,(2 '(.-%4,5 %446$%2,-8 -/4%2,+ %(+ %-')(,+ &'23 /23,$ ./$2'/(* /1 23, W/$;# W3,$, *'M, %(+ 28., /1 %22%437,(2* %$, (/2 '(+'4%2,+5 0,$'18 *'M, %(+ 28., $,96'$,+1/$-/%+ 4/(+'2'/(*#

1# M/6(2'() H,')32*: W3,$, 7/6(2'() 3,')32* %$, (/2 '(+'4%2,+5 7/6(2 4/7./(,(2* %2 3,')32* +'$,42,+ <8 A$43'2,42#

2# A--/& 1/$ <6'-+'() 7/0,7,(25 '(4-6+'() 23,$7%-,:.%(*'/(%(+ 4/(2$%42'/(#

!# C6'(): C6 '(.-%4, 4/(*$64'/(<8 *%&'()5 +$'--'()5 <$,%;'()5 43'..'()5)$'(+'()5 %(+ *'7'-%$ /.,$%'/(*5 '(4-6+'() ,:4%0%'/(5 6*'() 7,3/+* -,%* -';,-8 / +%7%), ,-,7,(* $,%'(,+ /$ %+A/'('() 4/(*$64'/(# I1 ./**'<-,5$,0',& .$/./*,+ .$/4,+6$,* &'3 /$')'(%- I(*%--,$L 4/7 .-8 &'3 /$')'(%- I(*%--,$K* &$'2,($,4/7 7,(+%'/(*#

1# I(),(,$%-5 6*, 3%(+ /$ *7%-- ./&,$ /-* +,*')(,+ 1/$ *%&'()%(+)$'(+'()5 (/ 3%7 7,$'()%(+ 43/..'()# C6 3/-,* %(+ *-/* (,%-8 / 7'('767 *'M, $,96'$,+5 %(+ &'3 7'('767 +'*6$<%(4, /1 %+A%4,(* 6$1%4,*# T,7./$%$'-8 4/0,$/.,('()* &3,((/'(6*,#

2# F'('*3,+ S6$1%4,*: C6 /$ +$'-- 1$/7 3, ,:./*,+ /$ 1'('*3,+ *'+, '(/ 4/(4,%-,+ *6$1%4,*#

3# C/(4$,, %(+ M%*/($8: C6 6*'() % 46'() 7%43'(,5 *643 %* %(%<$%*'0, *%& /$ %+'%7/(+ 4/$, +$'--#

=# E:4%0%'() %(+ B%4;1'--'(): C/7 .-8 &'3 $,96'$,7,(* '(%..-'4%<-, S,4'/(* &3,$,$,96'$,+ <8 46'() %(+ .%43'() /.,$%'/(*#

3#7 COORDINATION OF WORP

A# C/(2$%42/$ *3%-- <, $,*./(*'<-, 1/$ 4//$+'(%2'() 0%$'/6* ./$2'/(* /1 '2* W/$; &'23 23%2 2/ <, .,$1/$7,+ <8 /23,$ C/(2$%42/$*5 S6<4/(2$%42/$*5 /$ *,.%$%2, 4/(2$%42/$*5 */ 23%2 (/ .%$2 /1 23, W/$; &'-- <, -,12 '(%(6(1'('*3,+ /$ '(4/7 .-,2, 4/(+'2'/(%* %$,*6-2 /1 %(8 +'*%)$,,7,(2 <,2&,,(C/(2$%42/$ %(+ %(8 /23,$ S6<4/(2$%42/$ /$ %(/23,$ C/(2$%42/$ %* 2/ &3,$,23, &/$; /1 /(,<,)'(* %(+ ,(+* &'23 $,-%2'/(2/ 23, &/$; /1 23, /23,$*#

B# C/(2$%42/$ *3%-- *6<7'2 2/ O&(,$Q* .$/A,42 7%(%),$5 &,,;-85 %(%446$%2, 7%(./&,$ 4/6(2 /1 '2* &/$; 1/$4, %-/() &'23 % <$',1 +,*4$'.2'/(/1 23, &/$; .,$1/$7,+ %(+ &3,$, '2 '* -/4%2,+#

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PROJECT NAME _____ FOR: _____
JOB # _____ ISSUED: 02/01/2021

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