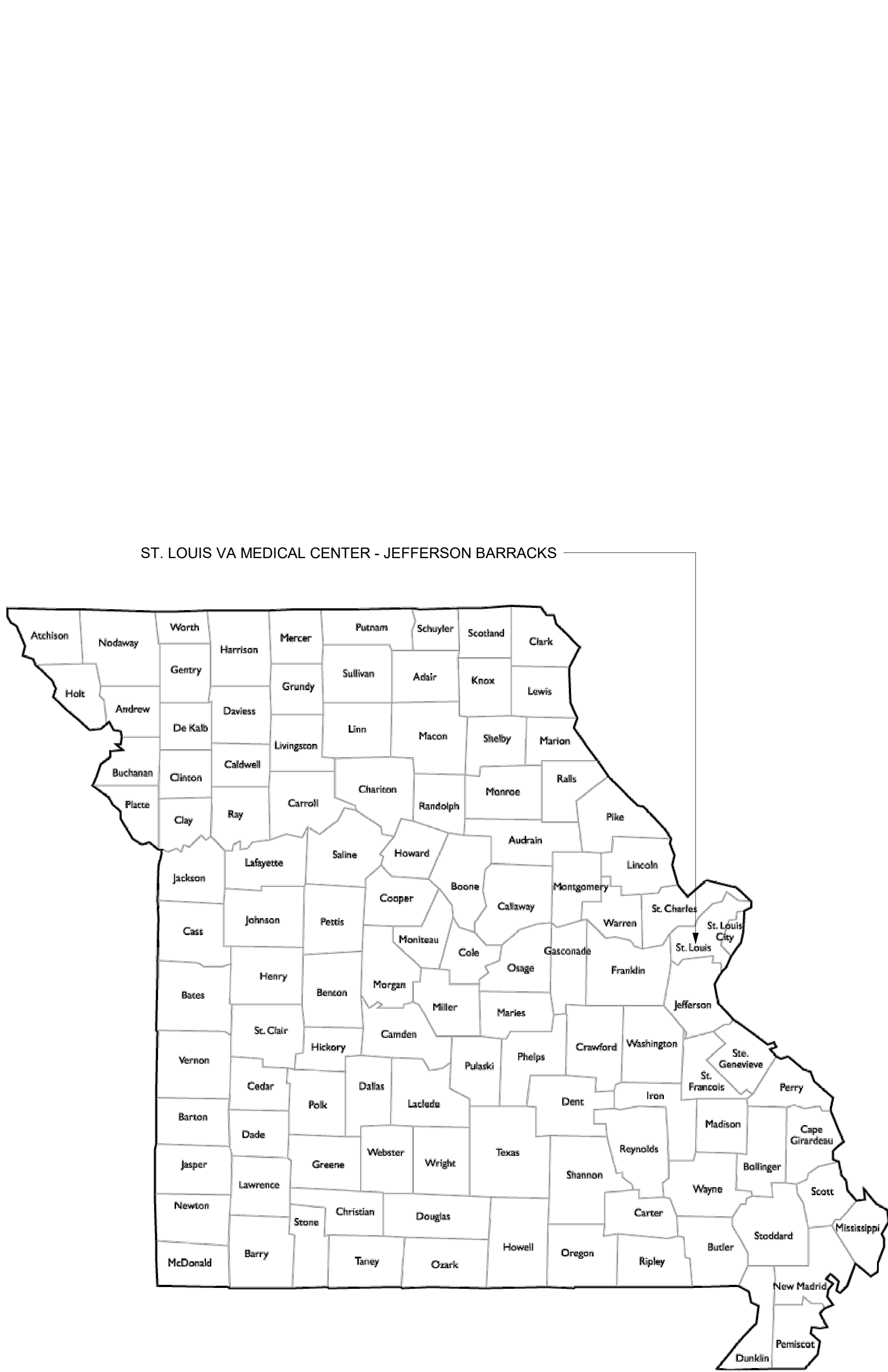


EHRM INFRASTRUCTURE UPGRADES

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, JEFFERSON BARRACKS DR, ST. LOUIS, MO

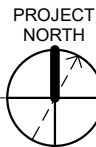
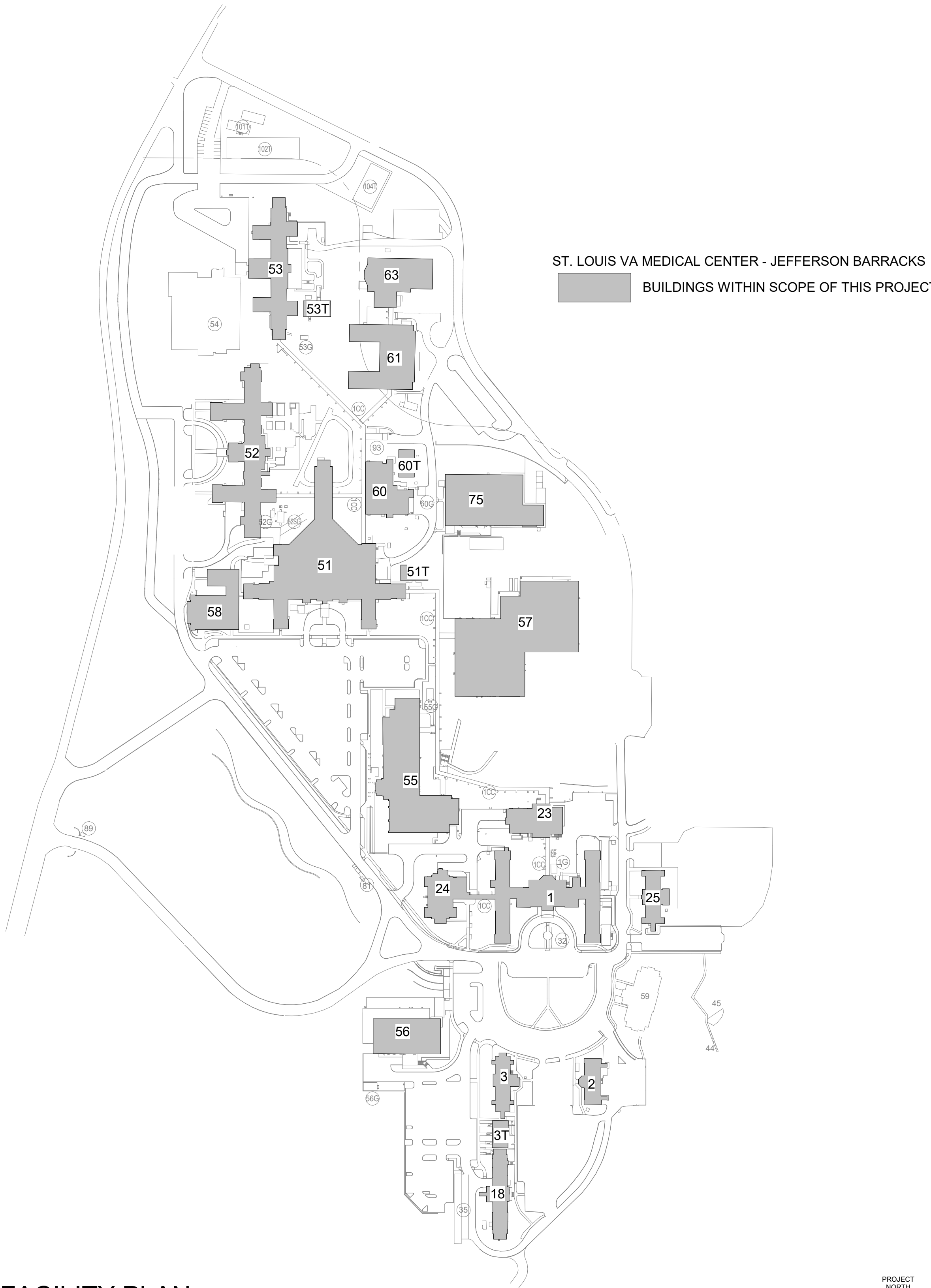
PROJECT #: 657-21-701JB



1 LOCATION PLAN
NTS



2 FACILITY PLAN
1" = 200'-0"



PROJECT INFORMATION

CODE ANALYSIS

STATE: MISSOURI
COUNTY: ST. LOUIS
JURISTICTIION: FEDERAL

OWNER: GOV, VETERANS AFFAIRS

SITE ZONING:
CONST TYPE:
OCCUPANCY:

ICRA CLASS REQUIREMENTS
ICRA CLASS REQUIREMENTS
DEPENDENT ON EACH
INDIVIDUAL ROOM LOCATION.

APPLICABLE BUILDINGS

BUILDING 1, 2, 3, 3T, 18,
23, 24, 25, 51, 51T, 52, 53,
53T, 55, 56, 57, 58, 60,
60T, 75

PROJECT DESCRIPTION

THE PROPOSED DESIGN SHALL IMPROVE,
RECONFIGURE, EXPAND AND RENOVATE
EXISTING SPACES FOR NEW
TELECOMMUNICATION ROOMS, INCLUDING A
RENOVATION OF EXISTING DATA CENTER.

DESIGN TEAM

RCDD

WSP
211 N BROADWAY, #2800
ST. LOUIS, MO, 63102
PHONE: (615) 571-8922

MECHANICAL

SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
PHONE: (206) 590-2118

ARCHITECTURAL

SPEES DESIGN BUILD
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ELECTRICAL & ICT

SPEES DESIGN BUILD
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STRUCTURAL

WSP
211 N BROADWAY, #2800
ST. LOUIS, MO, 63102
PHONE: (615) 571-8922

GENERAL NOTES

- COORDINATE WORK WITH ALL CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS & SPECIFICATIONS.
- SPECIFICATIONS SHALL SUPERSEDE DRAWINGS IN THE CASE OF ANY CONFLICTING INFORMATION. BRING TO THE AWARENESS OF AND VERIFY WITH VA COR PRIOR TO PROCEEDING.
- THE CONTRACTOR AND ANY SUB CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID OR BEGINNING WORK. NO ALLOWANCES WILL BE MADE ON BEHALF OF THE CONTRACTOR OR SUB-CONTRACTORS FOR FAILURE TO VISIT THE SITE.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING WORK. ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE COR.
- ALL WORK SHALL BE PERFORMED WITH A HIGH-LEVEL OF WORKMANSHIP.
- THE CONTRACTOR SHALL VERIFY ALL PRODUCT TYPES AND QUANTITIES DURING SITE WALK THROUGH, PRIOR TO PURCHASING ANY MATERIALS, EQUIPMENT, PRODUCTS OR LABOR.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH ALL INSTALLERS TO ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS.

RESOURCE DOCUMENTS

Revisions:	Date:

CONSULTANT
ENGINEERING DISCIPLINE:

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

COVER

Approved:

Phase

**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title

**EHRM INFRASTRUCTURE
UPGRADES**

Location

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date

03/31/2022

Checked

EM

Drawn

SJ

Project Number

657-21-701JB

Building Number

-

Drawing Number

G-001

01 OF 435

DRAWING INDEX		
PAGE #	SHEET #	SHEET NAME
GENERAL		
1 OF 436	G-001	COVER
2 OF 436	G-002	DRAWING INDEX
3 OF 436	G-003	DRAWING INDEX
CIVIL		
4 OF 436	C-001	SHEET INDEX AND GENERAL NOTES
5 OF 436	C-100	SITE COMMUNICATIONS PLAN - OVERALL
6 OF 436	C-101	SITE COMMUNICATIONS PLAN
7 OF 436	C-102	SITE COMMUNICATIONS PLAN
8 OF 436	C-103	SITE COMMUNICATIONS PLAN
9 OF 436	C-104	SITE COMMUNICATIONS PLAN
10 OF 436	C-105	SITE COMMUNICATIONS PLAN
11 OF 436	C-200	LOGICAL FIBER DIAGRAM SIDE A
12 OF 436	C-201	LOGICAL FIBER DIAGRAM SIDE B
13 OF 436	C-500	COMMUNICATIONS DETAILS
14 OF 436	C-501	COMMUNICATIONS DETAILS
15 OF 436	C-502	COMMUNICATIONS DETAILS
16 OF 436	C-503	COMMUNICATIONS DETAILS
17 OF 436	C-504	COMMUNICATIONS DETAILS
18 OF 436	C-505	COMMUNICATIONS DETAILS
19 OF 436	C-506	COMMUNICATIONS DETAILS
20 OF 436	C-600	FIBER DISTRIBUTION SCHEDULE SIDE A
21 OF 436	C-601	TUBE CABLE AND FIBER DISTRIBUTION SCHEDULES SIDE B
22 OF 436	C-700	FIBER TOPOLOGIES
ARCHITECTURAL		
23 OF 436	A-001	ARCHITECTURAL SYMBOLS & ABBREVIATIONS
24 OF 436	AS101	ICRA DETAILS
25 OF 436	01A-101a	BLDG 01 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
26 OF 436	01A-101b	BLDG 01 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
27 OF 436	01A-102	BLDG 01 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
28 OF 436	01A-103	BLDG 01 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
29 OF 436	02A-100	BLDG 02 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
30 OF 436	02A-101	BLDG 02 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
31 OF 436	02A-102	BLDG 02 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
32 OF 436	02A-103	BLDG 02 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
33 OF 436	03A-100	BLDG 03 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
34 OF 436	03A-101	BLDG 03 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
35 OF 436	03A-102	BLDG 03 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
36 OF 436	18A-100	BLDG 18 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
37 OF 436	18A-101	BLDG 18 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
38 OF 436	18A-102	BLDG 18 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
39 OF 436	18A-103	BLDG 18 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
40 OF 436	23A-100	BLDG 23 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
41 OF 436	23A-101	BLDG 23 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
42 OF 436	24A-100	BLDG 24 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
43 OF 436	24A-101	BLDG 24 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
44 OF 436	24A-102	BLDG 24 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
45 OF 436	25A-101	BLDG 25 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
46 OF 436	25A-102	BLDG 25 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
47 OF 436	25A-103	BLDG 25 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
48 OF 436	51A-100	BLDG 51 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
49 OF 436	51A-101a	BLDG 51 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
50 OF 436	51A-101b	BLDG 51 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
51 OF 436	52A-100	BLDG 52 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
52 OF 436	52A-101a	BLDG 52 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
53 OF 436	52A-101b	BLDG 52 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
54 OF 436	52A-102	BLDG 52 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
55 OF 436	53A-100	BLDG 53 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
56 OF 436	53A-101	BLDG 53 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
57 OF 436	53A-102	BLDG 53 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
58 OF 436	55A-101	BLDG 55 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
59 OF 436	55A-102	BLDG 55 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
60 OF 436	55A-103	BLDG 55 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
61 OF 436	56A-100	BLDG 56 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
62 OF 436	56A-101	BLDG 56 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
63 OF 436	56A-102	BLDG 56 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
64 OF 436	56A-103	BLDG 56 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
65 OF 436	57A-101	BLDG 57 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
66 OF 436	58A-101	BLDG 58 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
67 OF 436	60A-101	BLDG 60 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
68 OF 436	75A-101	BLDG 75 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
69 OF 436	AE421	INTERIOR ELEVATIONS & TR PLAN VIEW
70 OF 436	A-601	INTERIOR FINISH & DOOR SCHEDULE



71 OF 436	A-602	DOOR DETAILS, TYPES & WALL TYPES
72 OF 436	A-603	DETAILS
MECHANICAL		
73 OF 436	M-001	SYMBOLS AND ABBREVIATIONS
74 OF 436	01M-101	BLDG. 1 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
75 OF 436	01M-102	BLDG. 1 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
76 OF 436	01M-103	BLDG. 1 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
77 OF 436	01M-110	BLDG. 1 - ROOF PLAN
78 OF 436	02M-100	BLDG. 2 - FLOOR 0 - DEMO, FLOOR PLANS & RCP
79 OF 436	02M-101	BLDG. 2 - FLOOR 1 - DEMO, FLOOR PLANS & RCP
80 OF 436	02M-102	BLDG. 2 - FLOOR 2 - DEMO, FLOOR PLANS & RCP
81 OF 436	02M-103	BLDG. 2 - FLOOR 3 - DEMO, FLOOR PLANS & RCP
82 OF 436	03M-100	BLDG. 3 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
83 OF 436	03M-101	BLDG. 3 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
84 OF 436	03M-102	BLDG. 3 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
85 OF 436	03TM-101	BLDG 3T - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
86 OF 436	18M-100	BLDG. 18 - FLOOR 0 - DEMO, FLOOR PLANS & RCP
87 OF 436	18M-101	BLDG. 18 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
88 OF 436	18M-102	BLDG. 18 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
89 OF 436	18M-103	BLDG. 18 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
90 OF 436	23M-100	BLDG. 23 - FLOOR 0 - DEMO, FLOOR PLANS & RCP
91 OF 436	23M-101	BLDG. 23 - FLOOR 1 - DEMO, FLOOR PLANS & RCP
92 OF 436	23M-110	BLDG. 23 - ROOF PLAN
93 OF 436	24M-100	BLDG. 24 - FLOOR 0 - DEMO, FLOOR PLANS & RCP
94 OF 436	24M-101	BLDG. 24 - FLOOR 1 - DEMO, FLOOR PLANS & RCP
95 OF 436	24M-102	BLDG. 24 - FLOOR 2 - DEMO, FLOOR PLANS & RCP
96 OF 436	25M-101	BLDG 25 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
97 OF 436	25M-102	BLDG 25 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
98 OF 436	25M-103	BLDG 25 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
99 OF 436	51M-100	BLDG. 51 - FLOOR 00 - DEMO, FLOOR PLANS & RCPS
100 OF 436	51M-101a	BLDG. 51 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
101 OF 436	51M-101b	BLDG 51 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
102 OF 436	51M-110	BLDG. 51 - ROOF PLAN
103 OF 436	51TM-101	BLDG. 51T - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
104 OF 436	52M-100	BLDG 52 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
105 OF 436	52M-101a	BLDG 52 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
106 OF 436	52M-101b	BLDG 52 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
107 OF 436	52M-102	BLDG 52 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
108 OF 436	52M-110	BLDG 52 - ROOF PLAN
109 OF 436	53M-100	BLDG 53 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
110 OF 436	53M-101	BLDG 53 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
111 OF 436	53M-102	BLDG 53 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
112 OF 436	53M-110	BLDG 53 - ROOF PLAN
113 OF 436	53TM-101	BLDG 53T - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
114 OF 436	55M-101	BLDG 55 - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
115 OF 436	55M-102	BLDG 55 - FLOOR 2 - DEMO, FLOOR PLANS & RCPS
116 OF 436	55M-103	BLDG 55 - FLOOR 3 - DEMO, FLOOR PLANS & RCPS
117 OF 436	55M-110	BLDG 55 - ROOF PLAN
118 OF 436	56M-100	BLDG 56 - FLOOR 0 - DEMO, FLOOR PLANS & RCPS
119 OF 436	56M-101	BLDG 56 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
120 OF 436	56M-102	BLDG 56 - FLOOR 02 - DEMO, FLOOR PLANS & RCPS
121 OF 436	56M-103	BLDG 56 - FLOOR 03 - DEMO, FLOOR PLANS & RCPS
122 OF 436	56M-110	BLDG 56 - ROOF PLAN
123 OF 436	57M-101	BLDG 57 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
124 OF 436	58M-101	BLDG 58 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
125 OF 436	60M-101	BLDG 60 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
126 OF 436	60TM-101	BLDG 60T - FLOOR 1 - DEMO, FLOOR PLANS & RCPS
127 OF 436	75M-101	BLDG 75 - FLOOR 01 - DEMO, FLOOR PLANS & RCPS
128 OF 436	M-501	MECHANICAL DETAILS AND CONTROLS
129 OF 436	M-502	MECHANICAL DETAILS AND SCHEDULES
ELECTRICAL		
130 OF 436	EPG001	ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS
131 OF 436	01EP100	BLDG 01 - FLOOR 0 - ELECTRICAL PLAN
132 OF 436	01EP101	BLDG 01 - FLOOR 1 - ELECTRICAL PLAN
133 OF 436	01EP102	BLDG 01 - FLOOR 2 - ELECTRICAL PLAN
134 OF 436	01EP103	BLDG 01 - FLOOR 3 - ELECTRICAL PLAN
135 OF 436	02EP100	BLDG 02 - FLOOR 0 - ELECTRICAL PLAN
136 OF 436	02EP101	BLDG 02 - FLOOR 1 - ELECTRICAL PLAN
137 OF 436	02EP102	BLDG 02 - FLOOR 2 - ELECTRICAL PLAN
138 OF 436	02EP103	BLDG 02 - FLOOR 3 - ELECTRICAL PLAN
139 OF 436	03EP100	BLDG 03 - FLOOR 0 - ELECTRICAL PLAN
140 OF 436	03EP101	BLDG 03 - FLOOR 1 - ELECTRICAL PLAN
141 OF 436	03EP102	BLDG 03 - FLOOR 2 - ELECTRICAL PLAN
142 OF 436	03TEP101	BLDG 03T - FLOOR 1 - ELECTRICAL PLAN
143 OF 436	18EP100	BLDG 18 - FLOOR 0 - ELECTRICAL PLAN
144 OF 436	18EP101	BLDG 18 - FLOOR 1 - ELECTRICAL PLAN
145 OF 436	18EP102	BLDG 18 - FLOOR 2 - ELECTRICAL PLAN
146 OF 436	18EP103	BLDG 18 - FLOOR 3 - ELECTRICAL PLAN

147 OF 436	23EP100	BLDG 23 - FLOOR 0 - ELECTRICAL PLAN
148 OF 436	23EP101	BLDG 23 - FLOOR 1 - ELECTRICAL PLAN
149 OF 436	24EP100	BLDG 24 - FLOOR 0 - ELECTRICAL PLAN
150 OF 436	24EP101	BLDG 24 - FLOOR 1 - ELECTRICAL PLAN
151 OF 436	24EP102	BLDG 24 - FLOOR 2 - ELECTRICAL PLAN
152 OF 436	25EP100	BLDG 25 - FLOOR 0 - ELECTRICAL PLAN
153 OF 436	25EP101	BLDG 25 - FLOOR 1 - ELECTRICAL PLAN
154 OF 436	25EP102	BLDG 25 - FLOOR 2 - ELECTRICAL PLAN
155 OF 436	25EP103	BLDG 25 - FLOOR 3 - ELECTRICAL PLAN
156 OF 436	51EP100a	BLDG 51 - FLOOR 0 - AREA A & C - ELECTRICAL PLAN
157 OF 436	51EP100b	BLDG 51 - FLOOR 0 - AREA E - ELECTRICAL PLAN
158 OF 436	51EP101a	BLDG 51 - FLOOR 1 - AREA A - ELECTRICAL PLAN
159 OF 436	51EP101b	BLDG 51 - FLOOR 1 - AREA B - ELECTRICAL PLAN
160 OF 436	51EP101c	BLDG 51 - FLOOR 1 - AREA C - ELECTRICAL PLAN
161 OF 436	51EP101d	BLDG 51 - FLOOR 1 - AREA D - ELECTRICAL PLAN
162 OF 436	51EP101e	BLDG 51 - FLOOR 1 - AREA E - ELECTRICAL PLAN
163 OF 436	51TEP101	BLDG 51T - FLOOR 1 - ELECTRICAL PLAN
164 OF 436	52EP100	BLDG 52 - FLOOR 0 - ELECTRICAL PLAN
165 OF 436	52EP101	BLDG 52 - FLOOR 1 - ELECTRICAL PLAN
166 OF 436	52EP102	BLDG 52 - FLOOR 2 - ELECTRICAL PLAN
167 OF 436	53EP100	BLDG 53 - FLOOR 0 - ELECTRICAL PLAN
168 OF 436	53EP101	BLDG 53 - FLOOR 1 - ELECTRICAL PLAN
169 OF 436	53EP102	BLDG 53 - FLOOR 2 - ELECTRICAL PLAN
170 OF 436	53TEP101	BLDG 53T - FLOOR 1 - ELECTRICAL PLAN
171 OF 436	55EP101a	BLDG 55 - FLOOR 1 - AREA A - ELECTRICAL PLAN
172 OF 436	55EP101b	BLDG 55 - FLOOR 1 - AREA B - ELECTRICAL PLAN
173 OF 436	55EP102a	BLDG 55 - FLOOR 2 - AREA A - ELECTRICAL PLAN
174 OF 436	55EP102b	BLDG 55 - FLOOR 2 - AREA B - ELECTRICAL PLAN
175 OF 436	55EP103a	BLDG 55 - FLOOR 3 - AREA A - ELECTRICAL PLAN
176 OF 436	55EP103b	BLDG 55 - FLOOR 3 - AREA B - ELECTRICAL PLAN
177 OF 436	56EP100	BLDG 56 - FLOOR 0 - ELECTRICAL PLAN
178 OF 436	56EP101	BLDG 56 - FLOOR 1 - ELECTRICAL PLAN
179 OF 436	56EP102	BLDG 56 - FLOOR 2 - ELECTRICAL PLAN
180 OF 436	56EP103	BLDG 56 - FLOOR 3 - ELECTRICAL PLAN
181 OF 436	57EP101	BLDG 57 - FLOOR 1 - ELECTRICAL PLAN
182 OF 436	58EP101	BLDG 58 - FLOOR 1 - ELECTRICAL PLAN
183 OF 436	60EP101	BLDG 60 - FLOOR 1 - ELECTRICAL PLAN
184 OF 436	60TEP101	BLDG 60T - FLOOR 1 - ELECTRICAL PLAN
185 OF 436	75EP101	BLDG 75 - FLOOR 01 - ELECTRICAL PLAN
186 OF 436	01EP400a	BLDG 01 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
187 OF 436	01EP400b	BLDG 01 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
188 OF 436	01EP401a	BLDG 01 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
189 OF 436	01EP401b	BLDG 01 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
190 OF 436	01EP402	BLDG 01 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
191 OF 436	01EP403a	BLDG 01 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
192 OF 436	01EP403b	BLDG 01 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
193 OF 436	01EP404	BLDG 01 - ENLARGED ROOF PLANS
194 OF 436	02EP400	BLDG 02 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
195 OF 436	02EP401	BLDG 02 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
196 OF 436	02EP402	BLDG 02 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
197 OF 436	02EP403	BLDG 02 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
198 OF 436	03EP400	BLDG 03 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
199 OF 436	03EP401	BLDG 03 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
200 OF 436	03EP402	BLDG 03 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
201 OF 436	03TEP401	BLDG 03T - FLOOR 1 - ENLARGED ELECTRICAL PLANS
202 OF 436	18EP400	BLDG 18 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
203 OF 436	18EP401	BLDG 18 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
204 OF 436	18EP402	BLDG 18 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
205 OF 436	18EP403	BLDG 18 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
206 OF 436	23EP400	BLDG 23 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
207 OF 436	23EP401	BLDG 23 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
208 OF 436	23EP402	BLDG 23 - ENLARGED ROOF PLANS
209 OF 436	24EP400a	BLDG 24 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
210 OF 436	24EP400b	BLDG 24 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
211 OF 436	24EP401	BLDG 24 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
212 OF 436	24EP402	BLDG 24 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
213 OF 436	25EP401	BLDG 25 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
214 OF 436	25EP402	BLDG 25 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
215 OF 436	25EP403	BLDG 25 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
216 OF 436	51EP400	BLDG 51 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
217 OF 436	51EP401a	BLDG 51 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
218 OF 436	51EP401b	BLDG 51 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
219 OF 436	51EP401c	BLDG 51 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
220 OF 436	51EP402	ENLARGED ROOF PLANS
221 OF 436	51TEP401	BLDG 51T - FLOOR 1 - ENLARGED ELECTRICAL PLANS
222 OF 436	52EP400	BLDG 52 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
223 OF 436	52EP401a	BLDG 52 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
224 OF 436	52EP401b	BLDG 52 - FLOOR 1 - ENLARGED ELECTRICAL PLANS

225 OF 436	52EP402a	BLDG 52 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
226 OF 436	52EP402b	BLDG 52 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
227 OF 436	52EP403	BLDG 52 - ENLARGED ROOF PLANS
228 OF 436	53EP400a	BLDG 53 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
229 OF 436	53EP400b	BLDG 53 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
230 OF 436	53EP401a	BLDG 53 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
231 OF 436	53EP401b	BLDG 53 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
232 OF 436	53EP402	BLDG 53 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
233 OF 436	53EP403	BLDG 53 - ENLARGED ROOF PLANS
234 OF 436	53TEP401	BLDG 53T - FLOOR 1 - ENLARGED ELECTRICAL PLANS
235 OF 436	55EP401a	BLDG 55 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
236 OF 436	55EP401b	BLDG 55 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
237 OF 436	55EP401c	BLDG 55 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
238 OF 436	55EP402a	BLDG 55 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
239 OF 436	55EP402b	BLDG 55 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
240 OF 436	55EP403a	BLDG 55 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
241 OF 436	55EP403b	BLDG 55 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
242 OF 436	55EP404	BLDG 55 - ENLARGED ROOF PLANS
243 OF 436	56EP400	BLDG 56 - FLOOR 0 - ENLARGED ELECTRICAL PLANS
244 OF 436	56EP401	BLDG 56 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
245 OF 436	56EP402	BLDG 56 - FLOOR 2 - ENLARGED ELECTRICAL PLANS
246 OF 436	56EP403	BLDG 56 - FLOOR 3 - ENLARGED ELECTRICAL PLANS
247 OF 436	56EP404	BLDG 56 - ENLARGED ROOF PLANS
248 OF 436	57EP401a	BLDG 57 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
249 OF 436	57EP401b	BLDG 57 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
250 OF 436	57EP402	BLDG 57 - ENLARGED ROOF PLANS
251 OF 436	58EP401	BLDG 58 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
252 OF 436	58EP402	BLDG 58 - ENLARGED ROOF PLANS
253 OF 436	60EP401	BLDG 60 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
254 OF 436	60EP402	BLDG 60 - ENLARGED ROOF PLANS
255 OF 436	60TEP401	BLDG 60T - FLOOR 1 - ENLARGED ELECTRICAL PLANS
256 OF 436	75EP401	BLDG 75 - FLOOR 1 - ENLARGED ELECTRICAL PLANS
257 OF 436	75EP402	BLDG 75 - ENLARGED ROOF PLANS
258 OF 436	EP501	ELECTRICAL DETAILS
259 OF 436	EP502	ELECTRICAL DETAILS
260 OF 436	EP503	ELECTRICAL DETAILS
261 OF 436	01EP601	BLDG 1 - ONE-LINE DIAGRAM
262 OF 436	01EP602	BLDG 1 - ONE-LINE DIAGRAM (CONTINUED)
263 OF 436	02EP601	BLDG 02 - ONE-LINE DIAGRAM
264 OF 436	03EP601	BLDG 03 - ONE-LINE DIAGRAM
265 OF 436	18EP601	BLDG 18 AND 3T - ONE-LINE DIAGRAM
266 OF 436	23EP601	BLDG 23 - ONE-LINE DIAGRAM
267 OF 436	24EP601	BLDG 24 - ONE-LINE DIAGRAM
268 OF 436	25EP601	BLDG 25 - ONE-LINE DIAGRAM
269 OF 436	51EP601	BLDG 51, 51A, AND 51T - PARTIAL ONE-LINE DIAGRAM
270 OF 436	51EP602	BLDG 51M, 51A, AND 51T - PARTIAL ONE-LINE DIAGRAM (CONTINUED)
271 OF 436	52EP601	BLDG 52 - ONE-LINE DIAGRAM
272 OF 436	53EP601	BLDG 53 AND 53T - ONE-LINE DIAGRAM
273 OF 436	55EP601	BLDG 55 - ONE-LINE DIAGRAM
274 OF 436	56EP601	BLDG 56 - ONE-LINE DIAGRAM
275 OF 436	57EP601	BLDG 57 - ONE-LINE DIAGRAM
276 OF 436	58EP601	BLDG 58 - ONE-LINE DIAGRAM
277 OF 436	60EP601	BLDG 60 AND 60T - ONE-LINE DIAGRAM
278 OF 436	75EP601	BLDG 75 - ONE-LINE DIAGRAM
279 OF 436	01EP701	BLDG 01 - ELECTRICAL SCHEDULES
280 OF 436	01EP702	BLDG 01 - ELECTRICAL SCHEDULES
281 OF 436	02EP701	BLDG 02 - ELECTRICAL SCHEDULES
282 OF 436	03EP701	BLDG 03 - ELECTRICAL SCHEDULES
283 OF 436	18EP701	BLDG 18 AND 3T- ELECTRICAL SCHEDULES
284 OF 436	23EP701	BLDG 23 - ELECTRICAL SCHEDULES
285 OF 436	24EP701	BLDG 24 - ELECTRICAL SCHEDULES
286 OF 436	25EP701	BLDG 25 - ELECTRICAL SCHEDULES
287 OF 436	51EP701	BLDG 51, 51A, AND 51T - ELECTRICAL SCHEDULES
288 OF 436	51EP702	BLDG 51, 51A, AND 51T - ELECTRICAL SCHEDULES
289 OF 436	52EP701	BLDG 52 - ELECTRICAL SCHEDULES
290 OF 436	53EP701	BLDG 53 AND 53T - ELECTRICAL SCHEDULES
291 OF 436	55EP701	BLDG 55 - ELECTRICAL SCHEDULES
292 OF 436	56EP701	BLDG 56 - ELECTRICAL SCHEDULES
293 OF 436	57EP701	BLDG 57 - ELECTRICAL SCHEDULES
294 OF 436	58EP701	BLDG 58 - ELECTRICAL SCHEDULES
295 OF 436	60EP701	BLDG 60 AND 60T - ELECTRICAL SCHEDULES
296 OF 436	75EP701	BLDG 75 - ELECTRICAL SCHEDULES
297 OF 436	EP701	TYPICAL ELECTRICAL SCHEDULES
298 OF 436	EP702	TYPICAL ELECTRICAL SCHEDULES
299 OF 436	EP703	ELECTRICAL SCHEDULES
300 OF 436	EP704	ELECTRICAL SCHEDULES

DRAWING INDEX		
PAGE #	SHEET #	SHEET NAME
TELECOM		
301 OF 436	ETG001	TELECOMMUNICATIONS LEGEND, GENERAL NOTES, AND ABBREVIATIONS
302 OF 436	01ET100	BLDG 01 - FLOOR 0 - TELECOMMUNICATIONS PLAN
303 OF 436	01ET101	BLDG 01 - FLOOR 1 - TELECOMMUNICATIONS PLAN
304 OF 436	01ET102	BLDG 01 - FLOOR 2 - TELECOMMUNICATIONS PLAN
305 OF 436	01ET103	BLDG 01 - FLOOR 3 - TELECOMMUNICATIONS PLAN
306 OF 436	02ET100	BLDG 02 - FLOOR 0 - TELECOMMUNICATIONS PLAN
307 OF 436	02ET101	BLDG 02 - FLOOR 1 - TELECOMMUNICATIONS PLAN
308 OF 436	02ET102	BLDG 02 - FLOOR 2 - TELECOMMUNICATIONS PLAN
309 OF 436	02ET103	BLDG 02 - FLOOR 3 - TELECOMMUNICATIONS PLAN
310 OF 436	03ET100	BLDG 03 - FLOOR 0 - TELECOMMUNICATIONS PLAN
311 OF 436	03ET101	BLDG 03 - FLOOR 1 - TELECOMMUNICATIONS PLAN
312 OF 436	03ET102	BLDG 03 - FLOOR 2 - TELECOMMUNICATIONS PLAN
313 OF 436	03TET101	BLDG 03T - FLOOR 1 - TELECOMMUNICATIONS PLAN
314 OF 436	18ET100	BLDG 18 - FLOOR 0 - TELECOMMUNICATIONS PLAN
315 OF 436	18ET101	BLDG 18 - FLOOR 1 - TELECOMMUNICATIONS PLAN
316 OF 436	18ET102	BLDG 18 - FLOOR 2 - TELECOMMUNICATIONS PLAN
317 OF 436	18ET103	BLDG 18 - FLOOR 3 - TELECOMMUNICATIONS PLAN
318 OF 436	23ET100	BLDG 23 - FLOOR 0 - TELECOMMUNICATIONS PLAN
319 OF 436	23ET101	BLDG 23 - FLOOR 1 - TELECOMMUNICATIONS PLAN
320 OF 436	24ET100	BLDG 24 - FLOOR 0 - TELECOMMUNICATIONS PLAN
321 OF 436	24ET101	BLDG 24 - FLOOR 1 - TELECOMMUNICATIONS PLAN
322 OF 436	24ET102	BLDG 24 - FLOOR 2 - TELECOMMUNICATIONS PLAN
323 OF 436	25ET100	BLDG 25 - FLOOR 0 - TELECOMMUNICATIONS PLAN
324 OF 436	25ET101	BLDG 25 - FLOOR 1 - TELECOMMUNICATIONS PLAN
325 OF 436	25ET102	BLDG 25 - FLOOR 2 - TELECOMMUNICATIONS PLAN
326 OF 436	25ET103	BLDG 25 - FLOOR 3 - TELECOMMUNICATIONS PLAN
327 OF 436	25ET104	BLDG 25 - PENTHOUSE - TELECOMMUNICATIONS PLAN
328 OF 436	51ET100a	BLDG 51 - FLOOR 0 - AREA A & C - TELECOMMUNICATIONS PLAN
329 OF 436	51ET100b	BLDG 51 - FLOOR 0 - AREA E - TELECOMMUNICATIONS PLAN
330 OF 436	51ET101a	BLDG 51 - FLOOR 1 - AREA A - TELECOMMUNICATIONS PLAN
331 OF 436	51ET101b	BLDG 51 - FLOOR 1 - AREA B TELECOMMUNICATIONS PLAN
332 OF 436	51ET101c	BLDG 51 - FLOOR 1 - AREA C TELECOMMUNICATIONS PLAN
333 OF 436	51ET101d	BLDG 51 - FLOOR 1 - AREA D TELECOMMUNICATIONS PLAN
334 OF 436	51ET101e	BLDG 51 - FLOOR 1 - AREA E TELECOMMUNICATIONS PLAN
335 OF 436	51TET101	BLDG 51T - FLOOR 1 - TELECOMMUNICATIONS PLAN
336 OF 436	52ET100	BLDG 52 - FLOOR 0 - TELECOMMUNICATIONS PLAN
337 OF 436	52ET101	BLDG 52 - FLOOR 1 - TELECOMMUNICATIONS PLAN
338 OF 436	52ET102	BLDG 52 - FLOOR 2 - TELECOMMUNICATIONS PLAN
339 OF 436	53ET100	BLDG 53 - FLOOR 0 - TELECOMMUNICATIONS PLAN
340 OF 436	53ET101	BLDG 53 - FLOOR 1 - TELECOMMUNICATIONS PLAN
341 OF 436	53ET102	BLDG 53 - FLOOR 2 - TELECOMMUNICATIONS PLAN
342 OF 436	53ET103	BLDG 53 - PENTHOUSE - TELECOMMUNICATIONS PLAN
343 OF 436	53TET101	BLDG 53T - FLOOR 1 - TELECOMMUNICATIONS PLAN
344 OF 436	54ET100	BLDG 54 - FLOOR 0 - TELECOMMUNICATIONS PLAN
345 OF 436	54ET101	BLDG 54 - FLOOR 1 - TELECOMMUNICATIONS PLAN
346 OF 436	54ET102	BLDG 54 - FLOOR 2 - TELECOMMUNICATIONS PLAN
347 OF 436	55ET101a	BLDG 55 - FLOOR 1 - AREA A - TELECOMMUNICATIONS PLAN
348 OF 436	55ET101b	BLDG 55 - FLOOR 1 - AREA B - TELECOMMUNICATIONS PLAN
349 OF 436	55ET102a	BLDG 55 - FLOOR 2 - AREA A - TELECOMMUNICATIONS PLAN
350 OF 436	55ET102b	BLDG 55 - FLOOR 2 - AREA B - TELECOMMUNICATIONS PLAN
351 OF 436	55ET103a	BLDG 55 - FLOOR 3 - AREA A - TELECOMMUNICATIONS PLAN
352 OF 436	55ET103b	BLDG 55 - FLOOR 3 - AREA B - TELECOMMUNICATIONS PLAN
353 OF 436	56ET100	BLDG 56 - FLOOR 0 - TELECOMMUNICATIONS PLAN
354 OF 436	56ET101	BLDG 56 - FLOOR 1 - TELECOMMUNICATIONS PLAN
355 OF 436	56ET102	BLDG 56 - FLOOR 2 - TELECOMMUNICATIONS PLAN
356 OF 436	56ET103	BLDG 56 - FLOOR 3 - TELECOMMUNICATIONS PLAN
357 OF 436	57ET101	BLDG 57 - FLOOR 1 - TELECOMMUNICATIONS PLAN
358 OF 436	58ET101	BLDG 58 - FLOOR 1 - TELECOMMUNICATIONS PLAN
359 OF 436	60ET101	BLDG 60 - FLOOR 1 - TELECOMMUNICATIONS PLAN
360 OF 436	60TET101	BLDG 60T - FLOOR 1 - TELECOMMUNICATIONS PLAN
361 OF 436	75ET101	BLDG 75 - FLOOR 1 - TELECOMMUNICATIONS PLAN
362 OF 436	75ET102	BLDG 75 - MEZZANINE - TELECOMMUNICATIONS PLAN
363 OF 436	CET101	BLDG 1-24 - FLOOR 0 - CORRIDOR WIRELESS ACCESS POINT TELECOMMUNICATIONS PLAN
364 OF 436	CET102	BLDG 1-24 - FLOOR 1 - CORRIDOR WIRELESS ACCESS POINT TELECOMMUNICATIONS PLAN
365 OF 436	CET103	BLDG 23-51-65 - FLOOR 1 - CORRIDOR WIRELESS ACCESS POINT TELECOMMUNICATIONS PLAN
366 OF 436	CET104	BLDG 51-52-53-60-61 - FLOOR 1 - CORRIDOR WIRELESS ACCESS POINT TELECOMMUNICATIONS PLAN
367 OF 436	01ET400a	BLDG 01 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
368 OF 436	01ET400b	BLDG 01 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
369 OF 436	01ET401a	BLDG 01 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
370 OF 436	01ET401b	BLDG 01 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
371 OF 436	01ET402	BLDG 01 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
372 OF 436	01ET403a	BLDG 01 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS

373 OF 436	01ET403b	BLDG 01 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
374 OF 436	02ET400	BLDG 02 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
375 OF 436	02ET401	BLDG 02 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
376 OF 436	02ET402	BLDG 02 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
377 OF 436	02ET403	BLDG 02 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
378 OF 436	03ET400	BLDG 03 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
379 OF 436	03ET401	BLDG 03 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
380 OF 436	03ET402	BLDG 03 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
381 OF 436	03TET401	BLDG 03T - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
382 OF 436	18ET400	BLDG 18 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
383 OF 436	18ET401	BLDG 18 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
384 OF 436	18ET402	BLDG 18 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
385 OF 436	18ET403	BLDG 18 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
386 OF 436	23ET400	BLDG 23 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
387 OF 436	23ET401	BLDG 23 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
388 OF 436	24ET400	BLDG 24 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
389 OF 436	24ET401	BLDG 24 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
390 OF 436	24ET402	BLDG 24 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
391 OF 436	25ET401	BLDG 25 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
392 OF 436	25ET402	BLDG 25 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
393 OF 436	25ET403	BLDG 25 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
394 OF 436	51ET400	BLDG 51 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
395 OF 436	51ET401a	BLDG 51 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
396 OF 436	51ET401b	BLDG 51 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
397 OF 436	51ET401c	BLDG 51 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
398 OF 436	51TET401	BLDG 51T - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
399 OF 436	52ET400	BLDG 52 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
400 OF 436	52ET401a	BLDG 52 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
401 OF 436	52ET401b	BLDG 52 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
402 OF 436	52ET401c	BLDG 52 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
403 OF 436	52ET402a	BLDG 52 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
404 OF 436	52ET402b	BLDG 52 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
405 OF 436	53ET400a	BLDG 53 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
406 OF 436	53ET400b	BLDG 53 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
407 OF 436	53ET401a	BLDG 53 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
408 OF 436	53ET401b	BLDG 53 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
409 OF 436	53ET402	BLDG 53 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
410 OF 436	53TET401	BLDG 53T - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
411 OF 436	55ET401a	BLDG 55 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
412 OF 436	55ET401b	BLDG 55 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
413 OF 436	55ET401c	BLDG 55 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
414 OF 436	55ET402a	BLDG 55 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
415 OF 436	55ET402b	BLDG 55 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
416 OF 436	55ET403a	BLDG 55 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
417 OF 436	55ET403b	BLDG 55 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
418 OF 436	56ET400	BLDG 56 - FLOOR 0 - ENLARGED TELECOMMUNICATIONS PLANS
419 OF 436	56ET401	BLDG 56 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
420 OF 436	56ET402	BLDG 56 - FLOOR 2 - ENLARGED TELECOMMUNICATIONS PLANS
421 OF 436	56ET403	BLDG 56 - FLOOR 3 - ENLARGED TELECOMMUNICATIONS PLANS
422 OF 436	57ET401a	BLDG 57 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
423 OF 436	57ET401b	BLDG 57 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
424 OF 436	58ET401a	BLDG 58 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
425 OF 436	58ET401b	BLDG 58 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
426 OF 436	60ET401	BLDG 60 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
427 OF 436	60TET401	BLDG 60T - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
428 OF 436	75ET401	BLDG 75 - FLOOR 1 - ENLARGED TELECOMMUNICATIONS PLANS
429 OF 436	ET501	TELECOMMUNICATIONS DETAILS
430 OF 436	ET502	TELECOMMUNICATIONS DETAILS
431 OF 436	ET503	TELECOMMUNICATIONS DETAILS
432 OF 436	ET601	FIBER OPTIC NETWORK DIAGRAM
433 OF 436	ET602	FIBER OPTIC NETWORK DIAGRAM
434 OF 436	ET603	FIBER OPTIC NETWORK DIAGRAM
435 OF 436	ET701	TELECOMMUNICATIONS SCHEDULES

<div>Revisions:</div> <div></div>		<div>CONSULTANT</div> <div>ENGINEERING DISCIPLINE:</div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div>A/E: SPEES DESIGN BUILD 625 1ST AVE, STE 301 SEATTLE, WA 98104 (206) 590-2118 RAY SPEES</div> <div></div>		<div>STAMP</div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>		<div>Drawing Title</div> <div>DRAWING INDEX</div> <div>Approved:</div>	<div>Phase</div> <div>CONSTRUCTION DOCUMENTS</div> <div>FULLY SPRINKLERED</div>	<div>Project Title</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>Location ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO</div> <div>Issue Date 3/31/2022</div> <div>Checked EM</div> <div>Drawn AJ</div>	<div>Project Number</div> <div>657-21-701JB</div> <div>Building Number</div> <div>-</div> <div>Drawing Number</div> <div>G-003</div> <div>03 OF 435</div>
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ABF	AIR BLOWN FIBER
OSP	OUTSIDE PLANT
OS1	OPTICAL SINGLEMODE FIBER (LEGACY STANDARD)
OS2	OPTICAL SINGLEMODE FIBER (LATEST STANDARD)
PHH	PHYSICAL HAND HOE
POP	POINT OF PRESENCE
SMFO	SINGLE MODE FIBER OPTICS
TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM
TR	TELECOMMUNICATIONS ROOM

WN FIBER
 E PLANT
 SINGLEMODE FIBER (LEGACY STANDARD)
 SINGLEMODE FIBER (LATEST STANDARD)
 AL HAND HOLE
 F PRESENCE
 MODE FIBER OPTICS
 MMUNICATIONS DISTRIBUTION ROOM
 MMUNICATIONS ROOM

R DESCRIBE THE PROJECT SCOPE AND TO IDENT

THE PURPOSE OF THIS DRAWING IS TO FURTHER DESCRIBE THE PROJECT SCOPE AND TO IDENTIFY DESIGN AREAS OF SCOPE THAT ARE EITHER INCOMPLETE OR ANTICIPATED TO CHANGE. THIS DRAWING IS INTENDED TO ENHANCE THE CONTRACTOR'S UNDERSTANDING OF THE SCOPE AND IS NOT MEANT TO BE ALL INCLUSIVE - THE CONTRACTOR'S SCOPE IS BASED ON THE DRAWINGS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT AN RFI TO RESOLVE ANY DISCREPANCIES BETWEEN (THIS SCOPE OF WORK) DRAWINGS AND ANY OTHER CONTRACT DOCUMENTS. IN THE EVENT THE CONTRACTOR DOES NOT SUBMIT AN RFI, THE GREATER QUANTITY AND/OR THE SCOPE WITH THE HIGHER ASSOCIATED COST SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

THE SCOPE OF WORK INCLUDES INSTALLATION & TESTING OF A COMPLETE OUTSIDE PLANT STRUCTURED CABLING SYSTEM (REDUNDANT SIDE B). IN ADDITION, THIS SCOPE INCLUDED THE REPLACEMENT OF ALL EXISTING OS1 AND UPGRADE TO OS2 OPTICAL FIBER WITHIN THE BUILDINGS AS INDICATED. THIS WORK INCLUDES HORIZONTAL AND VERTICAL CABLING, UNDERGROUND AND IN-BUILDING PATHWAYS, PATHWAYS, RACKS, CABINETS, CABLE TRAY, TERMINATION HARDWARE, GROUNDING AND BONDING, ETC.

PATHWAY FOR SERVICE PROVIDER IS INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK, SERVICE PROVIDER CABLING AND ELECTRONICS IS NOT.

1. INCOMING SERVICE TO THE SITE SHALL BE PLANNED FOR A SECONDARY DIVERSE AND REDUNDANT PATHWAY.
2. INCOMING PATHWAY SHALL CONSIST OF TWO (2) 4" CONDUITS INSTALLED TO THE PROPERTY LINE.
3. SERVICE PROVIDER 4" CONDUITS SHALL EACH CONTAIN THREE (3) 1.25" INNERDUCTS AND ONE (1) 1" INNERDUCT. EACH INNERDUCT SHALL BE COSTRIPPED PER VPA STANDARDS AND SPECIFICATIONS.
4. IT IS COMMON (AND INTENTIONAL) FOR THE OWNER TO INSTALL SPARE CONDUITS TO THE PROPERTY LINE IN EXCESS OF WHAT THE SERVICE PROVIDERS BRING. SPARE CONDUITS ARE TO BE CAPPED, TAGGED, AND BURIED FOR FUTURE USE PER DRAWINGS AND SPECIFICATIONS.

1. ALL UNDERGROUND PVC, METALLIC CONDUIT, PLASTIC INNER DUCT, CONDUIT SPACERS, UNDERGROUND MATERIALS, EMT, CABLE TRAYS, OUTLET STUB-UP AND BACK BOXES, J-HOOKS AND OTHER CABLE CONTAINMENT SYSTEMS SHOWN ON THE TELECOMMUNICATIONS DRAWINGS ARE THE PART OF CONTRACTOR'S SCOPE OF WORK. THESE PATHWAYS MIGHT BE REPRESENTED ON OTHER TRADE DRAWINGS FOR REFERENCE ONLY. TELECOMMUNICATIONS DRAWINGS SHOULD BE USED FOR EXACT SIZE AND QUANTITIES

2. TELECOMMUNICATIONS PATHWAYS MUST CONFORM WITH THE REQUIREMENTS OF VA SPECIFICATIONS INCLUDING:
 - A. 27.05.26 - GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
 - B. 27.15.13 - CONDUITS AND BACKBOXES FOR COMMUNICATIONS SYSTEMS
 - C. 27.05.53 - IDENTIFICATION FOR COMMUNICATIONS SYSTEMS
 - D. 27.10.00 - STRUCTURED CABLING
 - E. 27.11.19 - COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS
 - F. 27.13.23 - COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING
 - G. 27.15.15 - COMMUNICATIONS OPTICAL FIBER CABLE SPLICINGS AND TERMINATIONS
 - H. 27.16.19 - COMMUNICATIONS PATCH CORDS, STATION CORDS, AND CROSS CONNECT WIRE
 - I. 28.05.41 - UNDERGROUND ELECTRICAL CONSTRUCTION
 - J. 31.20.11 - EARTHWORK SHORT FORM
 - K. 32.05.23 - GEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS
 - L. 32.12.27 - ASPHALT PAVING

1. INSIDE/OUTSIDE RATED SMFO OS2 IS SPECIFIED FOR ALL APPLICATIONS WHERE THE PATHWAY TRANSITS AN OUTSIDE PLAN PATH.
2. BUNDLING AND CONSTRUCTION BUNDLES CONSISTING OF MULTIPLES OF SUB-BUNDLES (SUBUNITS) OR 12 STRANDS OF FIBER ARE SPECIFIED. CABLES SHALL BE DIELECTRIC AND LOOSE-TUBE GEL-FILLED OS2 EXCEPT AIR BLOWN FIBER (ABF).
3. COMPLY WITH SPECIFIC DRAWINGS AND SPECIFICATIONS FOR ABF AND TRADITIONAL FIBER.

1. PROVIDE TWENTY-FIVE (25) YEAR CABLE MANUFACTURER'S EXTENDED WARRANTY TO THE OWNER.
2. A COPY OF CERTIFICATION BY THE MANUFACTURERS FOR ALL PRODUCTS LISTED IN THIS SPECIFICATION IS TO BE PROVIDED AS AN ATTACHMENT TO THE BID.
3. PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION DEMONSTRATING THE PROJECT HAS BEEN REGISTERED WITH THE CABLE MANUFACTURER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER THE ISSUANCE OF A FULL WARRANTY ON THE ENTIRE COPPER AND FIBER OPTIC CABLE PLANT INCLUDING THE HORIZONTAL CABLING FOR BOTH PARTS AND LABOR. THE CABLING CONTRACTOR AT HIS SOLE EXPENSE WILL CORRECT ANY DEFICIENCIES DETERMINED BY THE MANUFACTURER. FOR THE PROJECT DOCUMENTS, THE OWNER MAY ELECT TO WITHHOLD FINAL PAYMENT UNTIL THE FULL EXTENDED WARRANTY IS RECEIVED.
5. CONTRACTOR SHALL TRANSMIT TO THE OWNER INSTRUCTIONS FOR PROCESSING A WARRANTY CLAIM FOR YEARS 2 THROUGH 25.

1. REFER TO SECTION 27 06 37 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL INSTALL FIRESTOP WHERE TELECOMMUNICATIONS EQUIPMENT AND/OR CABLE PENETRATES A FIRE-RATED CONSTRUCTION TO MAINTAIN FIRE RATING OF THAT WALL OR FLOOR.
3. FIRE-RATED PENETRATIONS FOR DIVISION 27 CABLEING SHALL BE RE-ENTERABLE AND LISTED BY A NTRL RECOGNIZED BY THE AHJ.
4. FIRE-RATED PATHWAYS SHALL BE LISTED FOR USE FROM 0% TO 100% FILL WITHOUT THE USE OF ANY ANCILLARY MATERIALS UNLESS NOTED OTHERWISE.

1. ALL FIBER OPTIC BACKBONE MEDIA SHALL PASS ALL TIER 1 REQUIREMENTS (ATTENUATION WITH AN OPTICAL LOSS TEST SET OR OLTS, VERIFICATION OF CABLE LENGTH AND POLARITY) AND ALL TIER 2 REQUIREMENTS (CHARACTERIZATION BY AN OPTICAL TIME DOMAIN REFLECTOMETER OR OTDR RESULTING IN INDICATION OF THE UNIFORMITY OF CABLE ATTENUATION AND CONNECTOR INSERTION LOSS).

LOW-VOLTAGE CONTRACTOR'S FULL SCOPE OF WORK IS DEFINED BY THE CONTRACT DOCUMENTS PACKAGE CONSISTING OF THE PROJECT'S DRAWINGS AND SPECIFICATIONS.

1. COORDINATE WORK WITH OTHER TRADES.
2. PREPARE AND SUBMIT PRODUCT DATA, SHOP DRAWINGS, TEST REPORTS, ETC.
3. PROVIDE, INSTALL, TERMINATE, TEST AND TAG TELECOMMUNICATIONS CABLING SYSTEMS AND TAG THE TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM.
4. PROVIDE, INSTALL AND TAG THE SPECIFIED CABLE PATHWAY DISTRIBUTION SYSTEM AND ASSOCIATED ANCILLARY COMPONENTS (EG, CONDUITS, CONDUIT SLEEVES, INNERDUCT, CABLE TRAYS, ETC.) AND NON-CONTIGUOUS CABLE SUPPORTS (EG, CABLE TRAY, J-HOOKS, ETC.) AS SPECIFIED.
5. PROVIDE, INSTALL AND TAG TELECOMMUNICATIONS EQUIPMENT (EG, RACKS, CABINETS, CABLE TRAYS, ETC.) AS SPECIFIED.
6. CONVEY ANY DISCREPANCIES TO THE DESIGN CONSULTANT AND CONFIRM THE RESOLUTION IN AN RFI.

CTIONS WORK DONE BY CONTRACTOR TO ACCOMMODATE
CURRENT EDITION OF THE FOLLOWING DESIGN STANDARDS

1. ANSI/TIA STANDARD 568 "COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD"
2. ANSI/TIA STANDARD 569 "TELECOMMUNICATIONS PATHWAYS AND SPACES"
3. ANSI/TIA STANDARD 606 "ADMINISTRATIVE STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE"
4. ANSI/TIA STANDARD 607 "TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES"
5. ANSI/TIA STANDARD 758 "CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD"

CIFICATIONS, IN ADDITION TO DIVISION 1 AND
DRAWINGS, COMPLIANCE WITH DIVISION 27 IS MA

1. THE REFERENCED VA SPECIFICATIONS, IN ADDITION TO DIVISION 1 AND OTHER SECTIONS GOVERN THE WORK SHOWN ON THE DRAWINGS. COMPLIANCE WITH DIVISION 27 IS MANDATORY.
2. IN CASES WHERE THE DRAWINGS AND SPECIFICATIONS CONFLICT WITH THEMSELVES OR WITH CODE, PROVIDE THE GREATER QUANTITY, THE HIGHER QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.

TOR AND THEIR SUBS SHALL NOT REVISE, MODIFY, REDESIGN OR REDESIGN DOCUMENTS WITHOUT WRITTEN AUTHORIZATION OF THE COMPANY.

- THE GENERAL CONTRACTOR AND THEIR SUBS SHALL NOT REVISE, MODIFY, ALTER OR OTHERWISE
DEViate FROM THESE DESIGN DOCUMENTATIONS WITHOUT WRITTEN AUTHORIZATION FROM THE
OWNER. ANY SUCH ATTEMPT SHALL BE CONSIDERED A BREACH OF CONTRACT.
- CONTRACTOR MUST REVIEW AND COMPLY WITH ALL REFERENCED SPECIFICATIONS.
CONTRACTOR TO COORDINATE AND OBTAIN WRITTEN AUTHORIZATION FROM VA COR PRIOR TO ANY
REVISIONS TO THIS DRAWING. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY SUCH REVISIONS.
- CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF DAMAGE TO FIREPROOFING, FINISHES OR
STRUCTURE CAUSED BY LOW-VOLTAGE CONTRACTOR. RESTORATION SHALL BE TO SAME CONDITION
AS BEFORE DAMAGE OCCURRED. LOW-VOLTAGE CONTRACTOR SHALL OBTAIN WRITTEN ACCEPTANCE
FOR RESTORATION FROM OWNER.
- PHYSICAL LOCATION OF TELECOMMUNICATIONS COMPONENTS ARE APPROXIMATE AND SUBJECT TO
CHANGE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- CONTRACTOR SHALL VERIFY THAT ALL PENETRATIONS THROUGH STRUCTURE SHALL USE A FASTENING
SYSTEM SUITABLE FOR THE ANTICIPATED LOADS AND THE STRENGTH OF THE SUPPORTING
STRUCTURE. COORDINATE WEIGHT AND LOCATION OF EQUIPMENT TO BE MOUNTED TO STRUCTURE.
VERIFY THAT ALL PENETRATIONS THROUGH STRUCTURE ARE MADE IN ACCORDANCE WITH STRUCTURAL
ENGINEER FOR RECOMMENDED FASTENING SYSTEM FOR CONDITIONS THAT DO NOT MATCH
MANUFACTURERS RECOMMENDED INSTALLATION PRACTICES.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE MADE IN ACCORDANCE WITH SPECIFICATIONS AND ANSI/TIA-609-C
FOR PENETRATIONS THROUGH RATED WALLS AND FLOORS THROUGH WHICH COMMUNICATIONS
CABLING OR INFRASTRUCTURE PASS. OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF
WITHSTANDING THE EFFECTS OF FLAMES AND HIGH TEMPERATURES.
- REFER TO THE TEST STANDARD SPECIFIC FOR EACH TYPE OF PENETRATION FOR THE FULL
REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR ALL APPLICABLE CODES. REFER TO
SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO THE TEST STANDARD SPECIFIC FOR EACH TYPE OF PENETRATION FOR THE FULL
REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR ALL APPLICABLE CODES. REFER TO
SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO THE TEST STANDARD SPECIFIC FOR EACH TYPE OF PENETRATION FOR THE FULL
REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR ALL APPLICABLE CODES. REFER TO
SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SIZES SPECIFIED IN THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WARNING TAP: STANDARD .4MM POLYETHYLENE THICKNESS (3 MM) WIDE TAP DETECTABLE TYPE
CABLE. CABLE SHOULD BE KNICKED TO INDICATE LOCATION OF TAPPING POINT. SEE SECTION 28.07
CABLE TRAY ROUTING THROUGH ELEC. ROOMS SHALL BE SEPARATED BY A 2-HOUR RATED FIRE
RATING BARRIER.

CTION DRAWING SETS SHALL INCLUDE DRAWINGS DETAILING
NG SYSTEMS, INCLUDING:

1. AS-BUILT CONSTRUCTION DRAWING SETS SHALL INCLUDE DRAWINGS DETAILING THE FACILITY/CAMPUS STRUCTURED CABLEING SYSTEMS, INCLUDING:
 - 1.1. CABLE MEDIA PERFORMANCE CATEGORIES FOR EACH TYPE OF RUN.
 - 1.2. CABLEING, CABLE TUBES, AND EQUIPMENT QUANTITIES AT EACH END POINT.
 - 1.3. ELEVATION DRAWINGS SHOWING CABLEING, CABLE TUBES, AND EQUIPMENT PLACEMENT IN PHYSICAL ENVIRONMENT.
 - 1.4. FULL INTERCONNECTION DIAGRAM FOR ALL STRUCTURED CABLEING AND CABLE TUBES.
 - 1.5. PORT MAP AND CABLE, CABLE TUBE, AND HAND HOLE, AND TDU LABEL MATRICES.
 - 1.6. PHYSICAL CAMPUS MAP SHOWING EXACT ROUTING AND DEPTH.

ING CABLING TO REMAIN, TO BE RELOCATED, REPLACED, OR DEMOLISHED MUST
D WITH OWNER PRIOR TO COMMENCING WORK

1. ANY EXISTING CABLING TO REMAIN, TO BE RELOCATED, REPLACED, OR DEMOLISHED MUST BE CONFIRMED WITH OWNER PRIOR TO COMMENCING WORK.
2. ANY CABLING THAT IS TO BE MOVED, REPOSITIONED, OR RELOCATED SHALL BE VISUALLY INSPECTED FOR SIGNS OF DAMAGE, RE-TESTED AND RE-CERTIFIED.
3. CABLES THAT FAIL TESTING SHALL BE VISUALLY INSPECTED FOR SIGNS OF DAMAGE AND IF NONE ARE VISIBLE, RE-TERMINATED AND RE-TESTED.
4. WHERE CABLES ARE TO BE REORGANIZED ON PATCH PANELS, CONTRACTOR TO PRODUCE NEW PULL SCHEDULES AND SEQUENTIALLY RE-LABEL CABLING.
5. REFER TO DIV 27 SPECIFICATIONS FOR RECOMMENDATIONS AND GUIDANCE ON RE-LABELLING.

GROUNDING AND BONDING SYSTEM PER DRAWINGS

1. GROUND AND BOND ALL TELECOMMUNICATIONS SYSTEM COMPONENTS PER NEC AND ANSITA 600.100 AND 600.105, 600.106, 600.107, 600.108, 600.109, 600.110, 600.111, 600.112, 600.113, 600.114, 600.115, 600.116, 600.117, 600.118, 600.119, 600.120, 600.121, 600.122, 600.123, 600.124, 600.125, 600.126, 600.127, 600.128, 600.129, 600.130, 600.131, 600.132, 600.133, 600.134, 600.135, 600.136, 600.137, 600.138, 600.139, 600.140, 600.141, 600.142, 600.143, 600.144, 600.145, 600.146, 600.147, 600.148, 600.149, 600.150, 600.151, 600.152, 600.153, 600.154, 600.155, 600.156, 600.157, 600.158, 600.159, 600.160, 600.161, 600.162, 600.163, 600.164, 600.165, 600.166, 600.167, 600.168, 600.169, 600.170, 600.171, 600.172, 600.173, 600.174, 600.175, 600.176, 600.177, 600.178, 600.179, 600.180, 600.181, 600.182, 600.183, 600.184, 600.185, 600.186, 600.187, 600.188, 600.189, 600.190, 600.191, 600.192, 600.193, 600.194, 600.195, 600.196, 600.197, 600.198, 600.199, 600.200, 600.201, 600.202, 600.203, 600.204, 600.205, 600.206, 600.207, 600.208, 600.209, 600.210, 600.211, 600.212, 600.213, 600.214, 600.215, 600.216, 600.217, 600.218, 600.219, 600.220, 600.221, 600.222, 600.223, 600.224, 600.225, 600.226, 600.227, 600.228, 600.229, 600.230, 600.231, 600.232, 600.233, 600.234, 600.235, 600.236, 600.237, 600.238, 600.239, 600.240, 600.241, 600.242, 600.243, 600.244, 600.245, 600.246, 600.247, 600.248, 600.249, 600.250, 600.251, 600.252, 600.253, 600.254, 600.255, 600.256, 600.257, 600.258, 600.259, 600.260, 600.261, 600.262, 600.263, 600.264, 600.265, 600.266, 600.267, 600.268, 600.269, 600.270, 600.271, 600.272, 600.273, 600.274, 600.275, 600.276, 600.277, 600.278, 600.279, 600.280, 600.281, 600.282, 600.283, 600.284, 600.285, 600.286, 600.287, 600.288, 600.289, 600.290, 600.291, 600.292, 600.293, 600.294, 600.295, 600.296, 600.297, 600.298, 600.299, 600.300, 600.301, 600.302, 600.303, 600.304, 600.305, 600.306, 600.307, 600.308, 600.309, 600.310, 600.311, 600.312, 600.313, 600.314, 600.315, 600.316, 600.317, 600.318, 600.319, 600.320, 600.321, 600.322, 600.323, 600.324, 600.325, 600.326, 600.327, 600.328, 600.329, 600.330, 600.331, 600.332, 600.333, 600.334, 600.335, 600.336, 600.337, 600.338, 600.339, 600.340, 600.341, 600.342, 600.343, 600.344, 600.345, 600.346, 600.347, 600.348, 600.349, 600.350, 600.351, 600.352, 600.353, 600.354, 600.355, 600.356, 600.357, 600.358, 600.359, 600.360, 600.361, 600.362, 600.363, 600.364, 600.365, 600.366, 600.367, 600.368, 600.369, 600.370, 600.371, 600.372, 600.373, 600.374, 600.375, 600.376, 600.377, 600.378, 600.379, 600.380, 600.381, 600.382, 600.383, 600.384, 600.385, 600.386, 600.387, 600.388, 600.389, 600.390, 600.391, 600.392, 600.393, 600.394, 600.395, 600.396, 600.397, 600.398, 600.399, 600.400, 600.401, 600.402, 600.403, 600.404, 600.405, 600.406, 600.407, 600.408, 600.409, 600.410, 600.411, 600.412, 600.413, 600.414, 600.415, 600.416, 600.417, 600.418, 600.419, 600.420, 600.421, 600.422, 600.423, 600.424, 600.425, 600.426, 600.427, 600.428, 600.429, 600.430, 600.431, 600.432, 600.433, 600.434, 600.435, 600.436, 600.437, 600.438, 600.439, 600.440, 600.441, 600.442, 600.443, 600.444, 600.445, 600.446, 600.447, 600.448, 600.449, 600.450, 600.451, 600.452, 600.453, 600.454, 600.455, 600.456, 600.457, 600.458, 600.459, 600.460, 600.461, 600.462, 600.463, 600.464, 600.465, 600.466, 600.467, 600.468, 600.469, 600.470, 600.471, 600.472, 600.473, 600.474, 600.475, 600.476, 600.477, 600.478, 600.479, 600.480, 600.481, 600.482, 600.483, 600.484, 600.485, 600.486, 600.487, 600.488, 600.489, 600.490, 600.491, 600.492, 600.493, 600.494, 600.495, 600.496, 600.497, 600.498, 600.499, 600.500, 600.501, 600.502, 600.503, 600.504, 600.505, 600.506, 600.507, 600.508, 600.509, 600.510, 600.511, 600.512, 600.513, 600.514, 600.515, 600.516, 600.517, 600.518, 600.519, 600.520, 600.521, 600.522, 600.523, 600.524, 600.525, 600.526, 600.527, 600.528, 600.529, 600.530, 600.531, 600.532, 600.533, 600.534, 600.535, 600.536, 600.537, 600.538, 600.539, 600.540, 600.541, 600.542, 600.543, 600.544, 600.545, 600.546, 600.547, 600.548, 600.549, 600.550, 600.551, 600.552, 600.553, 600.554, 60

FAULTS AND HANDHOLES SHALL BE SIZED PER THE CURRENT EDITION OF ANSI/TIA STANDARD 7
CUSTOMER OWNED OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD

1. VAULTS AND HANDHOLES SHALL BE SIZED PER THE CURRENT EDITION OF ANSI/ASTM STANDARD 758: 2011, WHICH MAY BE FOUND AT: <http://www.astm.org/standards/758.htm>
2. VAULTS AND HANDHOLES SHALL BE LOCATED IN NON-TRAFFIC AREAS TO THE MAXIMUM DEGREE POSSIBLE.
3. VAULTS AND HANDHOLES SHALL COMPLY WITH THE CURRENT EDITION OF ANSI/ASTM STANDARD 77: SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY.
4. VAULTS AND HANDHOLES SHALL HAVE A RATING OF TIER 22 TO ENSURE ADEQUATE SUPPORT FOR EMERGENCY VEHICLES.
5. VAULTS AND HANDHOLES SUBJECT TO DELIBERATE AND CONTINUOUS HIGHWAY TRAFFIC SHALL HAVE AN AASHTO H-20S-20 RATING.
6. COMPLY WITH VA 26 05.14 UNDERGROUND ELECTRICAL CONSTRUCTION.
7. UNDERSTATION B HAND HOLE WHERE FOUR (4) "C" CONDUTORS ARE REQUIRED: USE A COMBINO HAND HOLE.

E WITH THE NEC AND ANSI/TIA STANDARD
NDUITS WITH EQUIPMENT INSTALLED BY (

1. GROUND CONDUIT IN ACCORDANCE WITH THE NEC AND ANSI/ISA STANDARD 569
2. COORDINATE INSTALLATION OF CONDUITS WITH EQUIPMENT INSTALLED BY OTHER TRADES.
3. INSTALL AND INSTALL PULL TAPE INSIDE BACKBONE CONDUITS AS SPECIFIED, MINIMUM OF 500 LB TENSILE, PER LUBRICATED.
4. INSTALL PLENUM RATED PLASTIC BUSHING ON ALL CONDUITS AND FITTINGS.
5. PROVIDE AND INSTALL THIS CONDUIT SYSTEM WITH 100% GALVANNEED STEEL. CONTRACTOR SHALL EMT UON. CONTRACTOR TO INSTALL IMC OR RMC FOR TELECOMMUNICATIONS PATHWAYS IN PLACE OF EMT WHERE REQUIRED BY CODE OR AS SHOWN ON DRAWINGS.
6. ALL CONDUITS SHALL BE USED TO PREVENT PENETRATION OF LIQUIDS AND GASES AT ALL BUILDING PENETRATIONS.
7. CONTRACTOR TO PROVIDE PROTECTION BUSHINGS ON ALL COMMUNICATION CONDUITS AND WHERE CABLING ROUTES THROUGH METAL STUDS. BUSHINGS MUST BE RATED FOR THE ENVIRONMENTS THEY ARE USED IN.
8. ALL LOW-VOLTAGE CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE AIR BEND RADIUS FOR ALL ELBOWS. ALL LOW-VOLTAGE CONDUIT 2" SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE AIR BEND RADIUS FOR ALL ELBOWS.
9. ALL LOW-VOLTAGE CONDUIT 2" SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE AIR BEND RADIUS FOR ALL ELBOWS.
10. FOR AIR BLOW FIBER RADIUS BENDS, COMPLY WITH DRAWINGS AND SPECIFICATIONS FOR FACTORY 40" SWEEPS.
11. ALL CONDUITS 2" AND SMALLER GENERALLY DO NOT APPEAR ON DRAWINGS EXCEPT FOR SPECIFIC CONDITIONS, BUT ARE REQUIRED. REFER TO CONTRACT DOCUMENTS (INCLUDING SCHEDULES, SHEET NOTES, DETAILS, KEYNOTES, AND SPECIFICATIONS) FOR ADDITIONAL INFORMATION.
12. ALL CONDUITS AND INDICATED CONDUIT BENDS SHALL BE INSTALLED IN SUCH A MANNER AS TO REQUIRE MORE THAN A SECOND 90 DEGREE BEND IN ANY SINGLE RUN BETWEEN HAND HOLES. INSTALL AN ADDITIONAL HAND HOLE AS REQUIRED. FOR AS-BUILT DRAWINGS AND LABELING, INDICATE THIS ADDITIONAL HAND HOLE AS A (1,6). IF THE HAND HOLE IS BETWEEN PPH 20 AND PPH 21, INDICATE THIS ADDITIONAL HAND HOLE AS A (1,6).

INSTALL A CABLE DISTRIBUTION PATHWAY SYSTEM PER THE DRAWING
C. INSTALL IN A NEAT AND WORKMANLIKE MANNER

1. PROVIDE AND INSTALL A CABLE DISTRIBUTION PATHWAY SYSTEM PER THE DRAWINGS AND SPECIFICATIONS. INSTALL IN A NEAT AND WORKMAN-LIKE MANNER.
2. PATHWAYS SHALL COMPLY WITH ANSI/TIA 569.
3. MAINTAIN SEPARATION BETWEEN TELECOMMUNICATIONS CABLE PATHWAYS AND POWER CONDUCTOR PATHWAYS PER ANSI/TIA STANDARD 568.
4. ANY TIME A CABLE PROTRUDES THROUGH A WALL OR BARRIER, IT IS REQUIRED TO USE A CONDUIT, PRE-FABRICATED SLEEVE OR SIMILAR. IT IS NOT PERMITTED TO RUN CABLES THROUGH A HOLE IN THE BARRIER UNPROTECTED. REFER TO CONDITIONS TABLE BELOW.

WORTH MOVING (SHORT FORM) FOR

1. REFER TO SECTION 31 20 11 EARTH MOVING (SHORT FORM) FOR TRENCHING, BACKFILLING, AND COMPACTION.
2. BEFORE PERFORMING TRENCHING WORK AT EXISTING FACILITIES, A GROUP PENETRATING RADAR SURVEY SHALL BE CAREFULLY PERFORMED BY A CERTIFIED TECHNICIAN TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES, AND OTHER UTILITY SYSTEMS.
3. WORK WITH EXTREME CARE NEAR EXISTING DUCTS, CONDUITS, AND OTHER UTILITIES TO AVOID DAMAGING THEM.
4. CUT THE TRENCHES NEATLY AND UNIFORMLY.
5. FLOOR UNDERGROUND DUCTS, CONDUITS WITH VA 26 05 1 UNDERGROUND ELECTRICAL CONSTRUCTION.
6. CONTRACTOR TO RESTORE ALL SITE WORK FOR DUCT/BANK PLANTED ROUTE TO ORIGINAL CONDITION FOR ROAD, LANDSCAPE AREAS SHALL USE RESTORANT AND TREES TO ENSURE VEGETATION IS ESTABLISHED. PAVEMENT AND CONCRETE AREAS ARE TO BE RESTORED IN KIND MATCHING THE EXISTING ASPHALT OR CONCRETE SURFACE. SAWCUT LINES SHALL BE NEAT AND STRAIGHT TO ENSURE

VA FORM 08-6231 1 2

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1. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

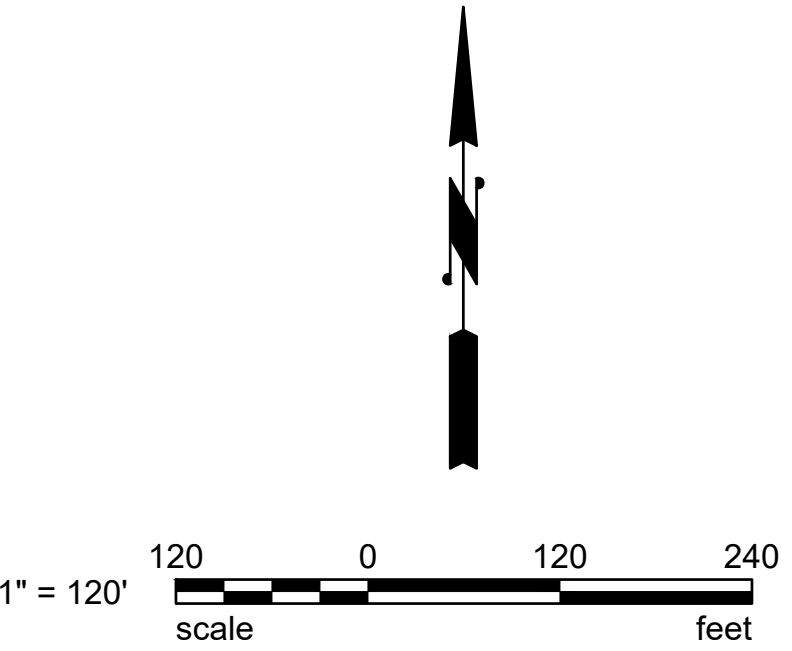
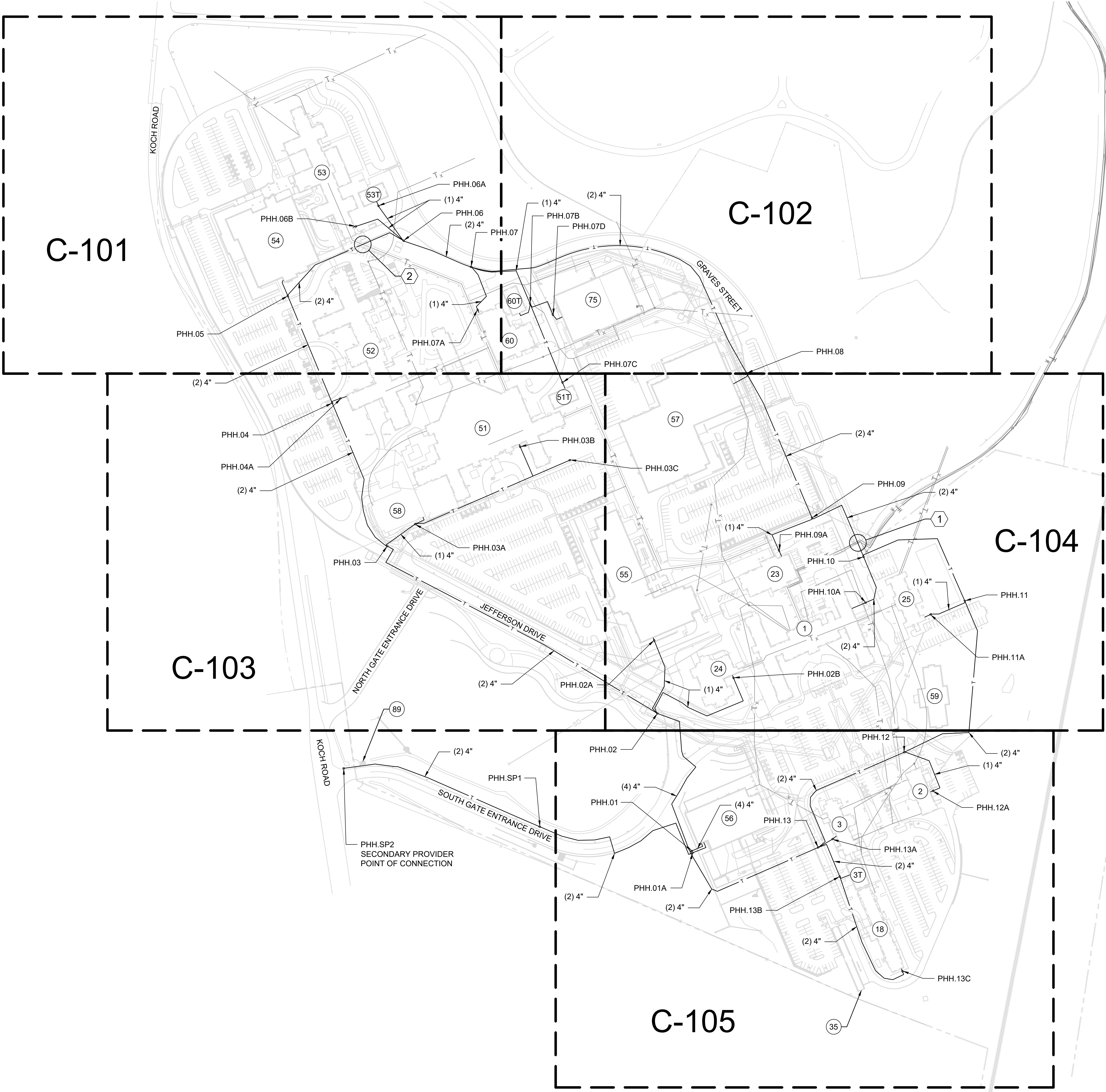
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7 |8 |

9 | 10

KEYNOTES

- 1 HAND DIG ONLY THIS AREA. THIS IS THE AT&T CONNECTION TO THE CAMPUS. THERE IS ALSO A NATURAL GAS LINE IN THIS AREA. AS-BUILTS MAY NOT BE EXACT. CONTACT THE VAMC ST. LOUIS COR AND IT DEPARTMENTS 24-HOURS AND IMMEDIATELY PRIOR TO DIGGING SO THEY ARE AWARE AND PREPARED TO RESPOND AND COORDINATE IN AN EMERGENCY.
- 2 CONTRACTOR TO DIRECTIONAL BORE UNDER THE EXISTING WALKWAY FOR THE NEW B-SIDE CONDUIT DUCTBANK. EXISTING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. FINAL DESIGN FOR DUCTBANK UNDER THE WALKWAY SHALL BE VERIFIED WITH VA COR AFTER EXISTING UTILITIES ARE FIELD VERIFIED.



Revisions:	Date:

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SDB SPEEDSDESIGNBUILD

STAMP

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Michael Carson
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EXPIRES 12-31-23

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

SITE COMMUNICATIONS PLAN -
OVERALL

Approved:

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES

Location

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date

03/31/2022

Checked

Checker

Drawn

Author

Project Number

657-21-701JB

Building Number

Drawing Number

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05 OF 435



Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

SITE COMMUNICATIONS PLAN

Approved:

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE UPGRADES

Location

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date

03/31/2022

Checked

Checker

Drawn

Author

Project Number

657-21-701JB

Building Number

Drawing Number

C-101

06 OF 435

LEGEND

- T_x — EXISTING CONDUIT
- T — PROPOSED FIBER ROUTE
- PROPOSED HANDHOLE
- ⊙ # BUILDING #

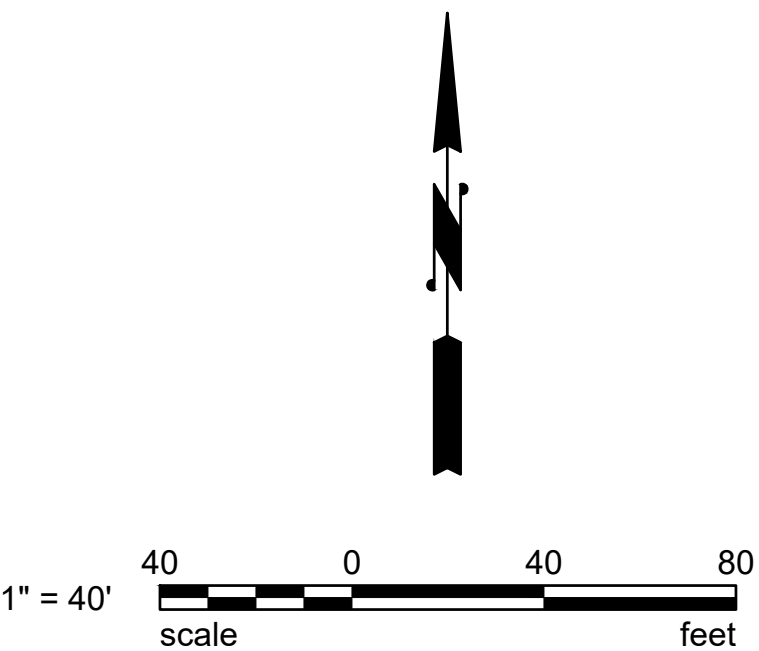
KEYNOTES

- 1 INSTALL CONDUIT DUCTBANK, SEE DETAIL E3 C-500
- 2 INSTALL HANDHOLE, SEE DETAIL F7 C-500
- 3 CONNECT TO BUILDING

MATCHLINE SEE SHEET C-101



MATCHLINE SEE SHEET C-104



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Office of
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U.S. Department
of Veterans Affairs

Drawing Title

SITE COMMUNICATIONS PLAN

Approved:

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES

Location

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date

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Project Number

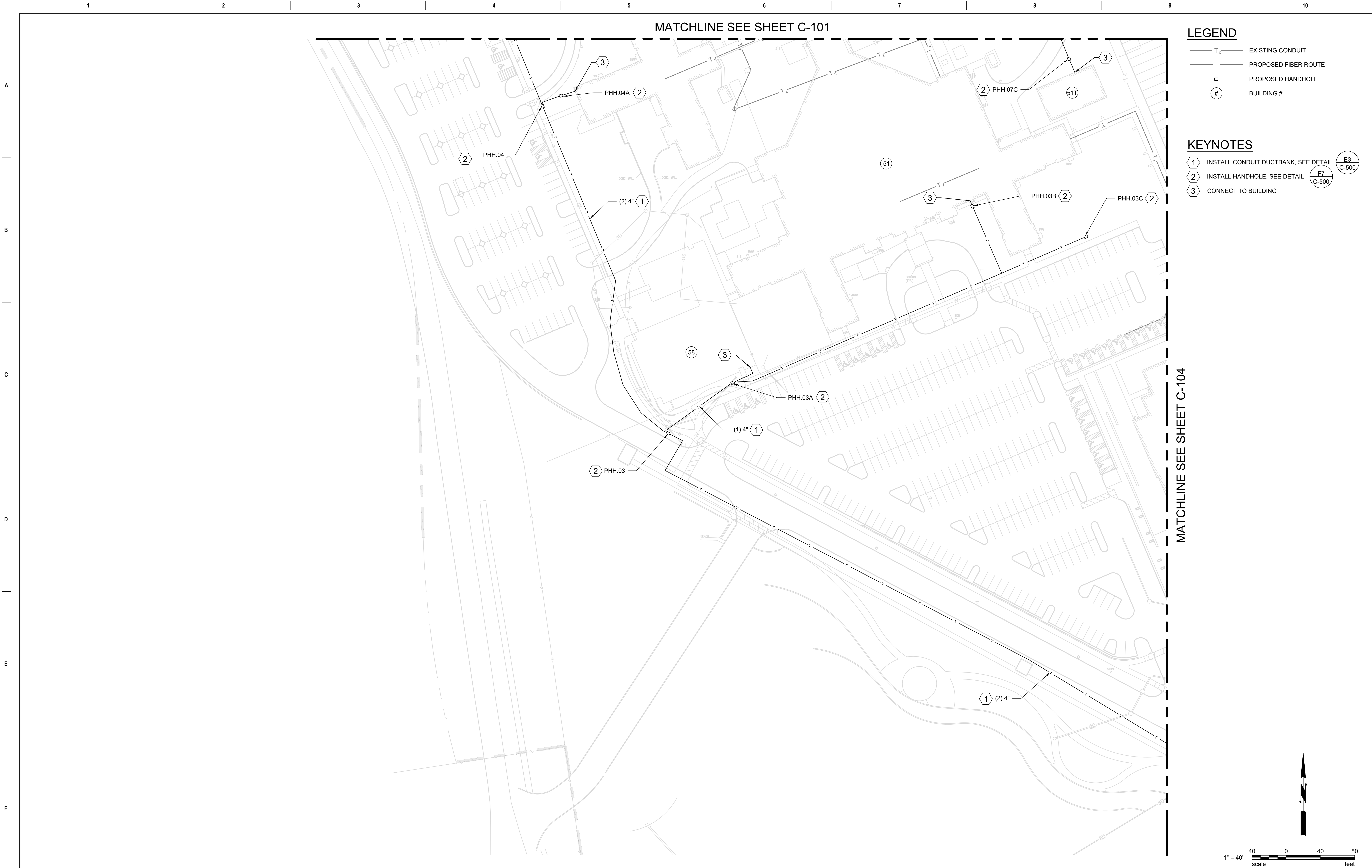
657-21-701JB





Building Number

Drawing Number

C-102

07 OF 435



Revisions:	Date:	<div>CONSULTANT</div> <div>ENGINEERING DISCIPLINE:</div> <div> WSP USA, Inc. 33301 9th Avenue South Suite 300 Federal Way, WA 98003-2600 TEL: (206) 431-2300 FAX: (206) 431-2250</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div>A/E:</div> <div> SPEEDSDSIGNBUILD 625 1ST AVE, STE 301 SEATTLE, WA 98104 (206) 590-2118 RAY SPEEDS</div>	<div>STAMP</div> <div> Bicsi Michael Carson BICSI ID # 357798 Expires 12-31-23 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER RCDD</div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>SITE COMMUNICATIONS PLAN</div>	<div>Phase</div> <div>CONSTRUCTION DOCUMENTS</div>	<div>Project Title</div> <div>EHRM INFRASTRUCTURE UPGRADES</div>	<div>Project Number</div> <div>657-21-701JB</div>
						<div>Approved:</div>	<div>FULLY SPRINKLERED</div>	<div>Location</div> <div>ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO</div>	<div>Building Number</div>
								<div>Issue Date</div> <div>03/31/2022</div>	<div>Drawing Number</div> <div>C-103</div>
								<div>Checked</div> <div>Checker</div>	<div>08 OF 435</div>
								<div>Drawn</div> <div>Author</div>	

MATCHLINE SEE SHEET C-102

LEGEND

- T_x — EXISTING CONDUIT
— T — PROPOSED FIBER ROUTE
□ PROPOSED HANDHOLE
BUILDING

KEYNOTES

- 1 INSTALL CONDUIT DUCTBANK, SEE DETAIL E3 C-500
2 INSTALL HANDHOLE, SEE DETAIL F7 C-500
3 CONNECT TO BUILDING

MATCHLINE SEE SHEET C-103



MATCHLINE SEE SHEET C-105

Revisions:	Date:

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RCDD

Office of
Construction
and Facilities
Management
VA U.S. Department
of Veterans Affairs

Drawing Title
SITE COMMUNICATIONS PLAN
Approved:

Phase
**CONSTRUCTION
DOCUMENTS**
FULLY SPRINKLERED

Project Title
**EHRM INFRASTRUCTURE
UPGRADES**
Location
ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date
03/31/2022
Checked
Checker
Drawn
Author

Project Number
657-21-701JB
Building Number
C-104
09 OF 435

MATCHLINE SEE SHEET C-103

LEGEND

-
- | | |
|--|----------------------|
| | EXISTING CONDUIT |
| | PROPOSED FIBER ROUTE |
| | PROPOSED HANDHOLE |
| | BUILDING # |

KEYNOTES

- | | | |
|---|--------------------------------------|-------------|
| 1 | INSTALL CONDUIT DUCTBANK, SEE DETAIL | E3
C-500 |
| 2 | INSTALL HANDHOLE, SEE DETAIL | F7
C-500 |
| 3 | CONNECT TO BUILDING | |



1" = 40'

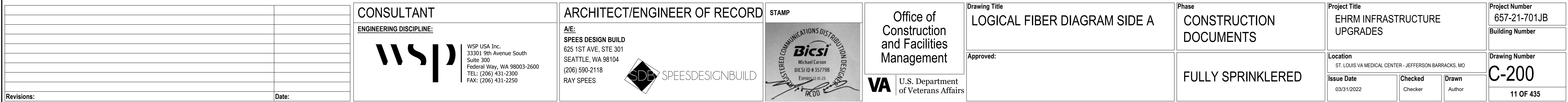
40 0 40 80

scale feet

[illegible]

KEYNOTES

- 1 BUILDING 54 – THIS CONNECTION MAY BE TO BUILDING 53, 51, OR 1 VIA THE PEDESTRIAN TUNNEL
- 2 COULD NOT BE CONFIRMED

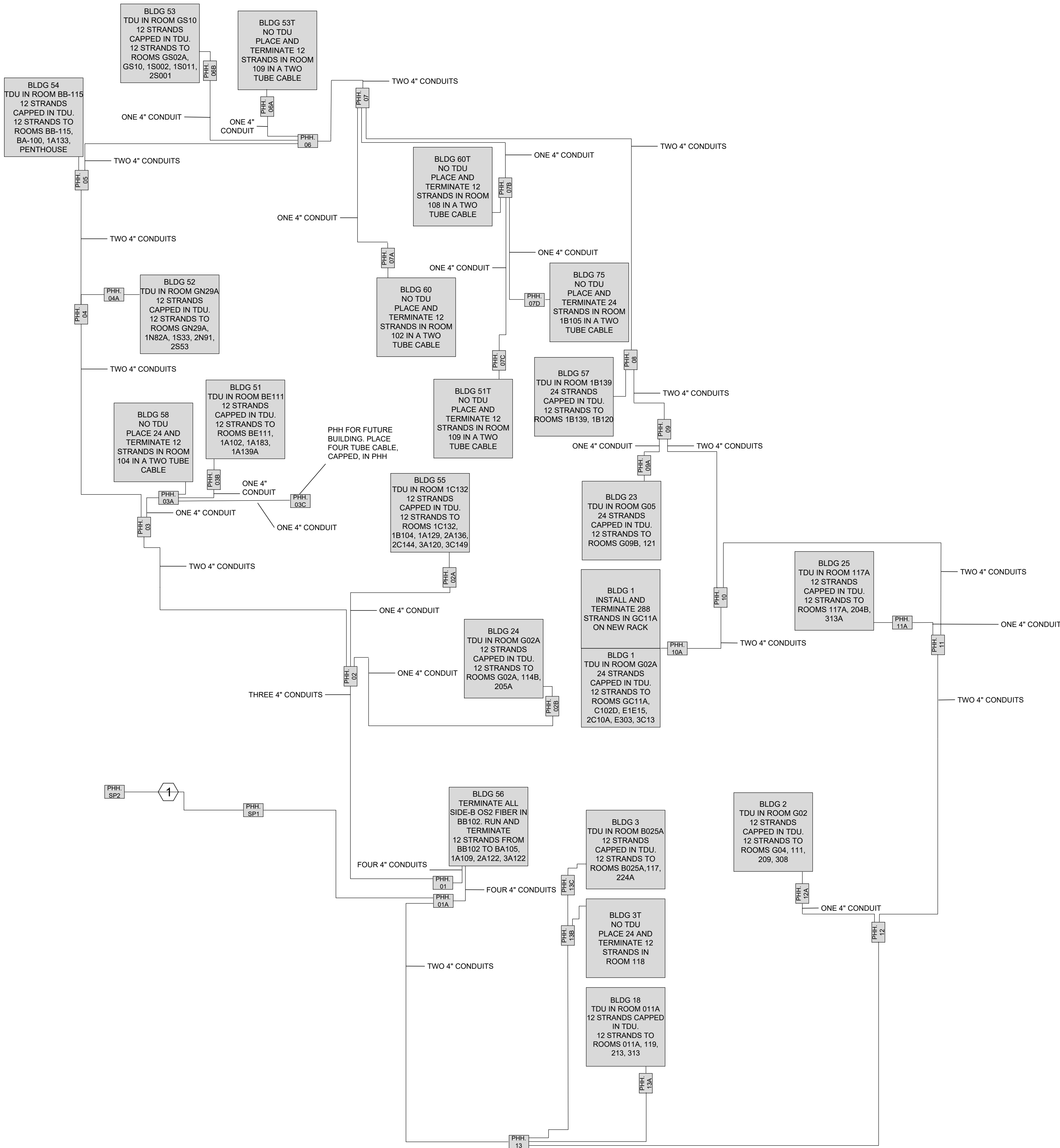


SHEET NOTES

- 1. INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT PATHWAYS.
- 2. THIS IS A SCHEMATIC LOGICAL DRAWING AND IS NOT TO SCALE.

KEYNOTES


- 1. COMPLY WITH VA STANDARDS FOR INNERDUCT. INSTALL THREE (3) 1/2" AND ONE (1) 1" INNERDUCT IN EACH 4" SERVICE PROVIDER CONDUIT.



Revisions:	Date:

CONSULTANT


ENGINEERING DISCIPLINE:



WSP USA Inc.
33301 9th Avenue South
Suite 300
Federal Way, WA 98003-2600
TEL: (206) 431-2300
FAX: (206) 431-2250

ARCHITECT/ENGINEER OF RECORD

A/E:



SPEED DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEEDS

STAMP



Michael Carson
BICSI ID # 357798
Expires 12-31-23
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

LOGICAL FIBER DIAGRAM SIDE B

Approved:

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE UPGRADES

Location

ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date

03/31/2022

Checked

Checker

Drawn

Author

Project Number

657-21-701JB

Building Number

Drawing Number

C-201

12 OF 435

OPTION A

OPTION B

OPTION C

NOTES

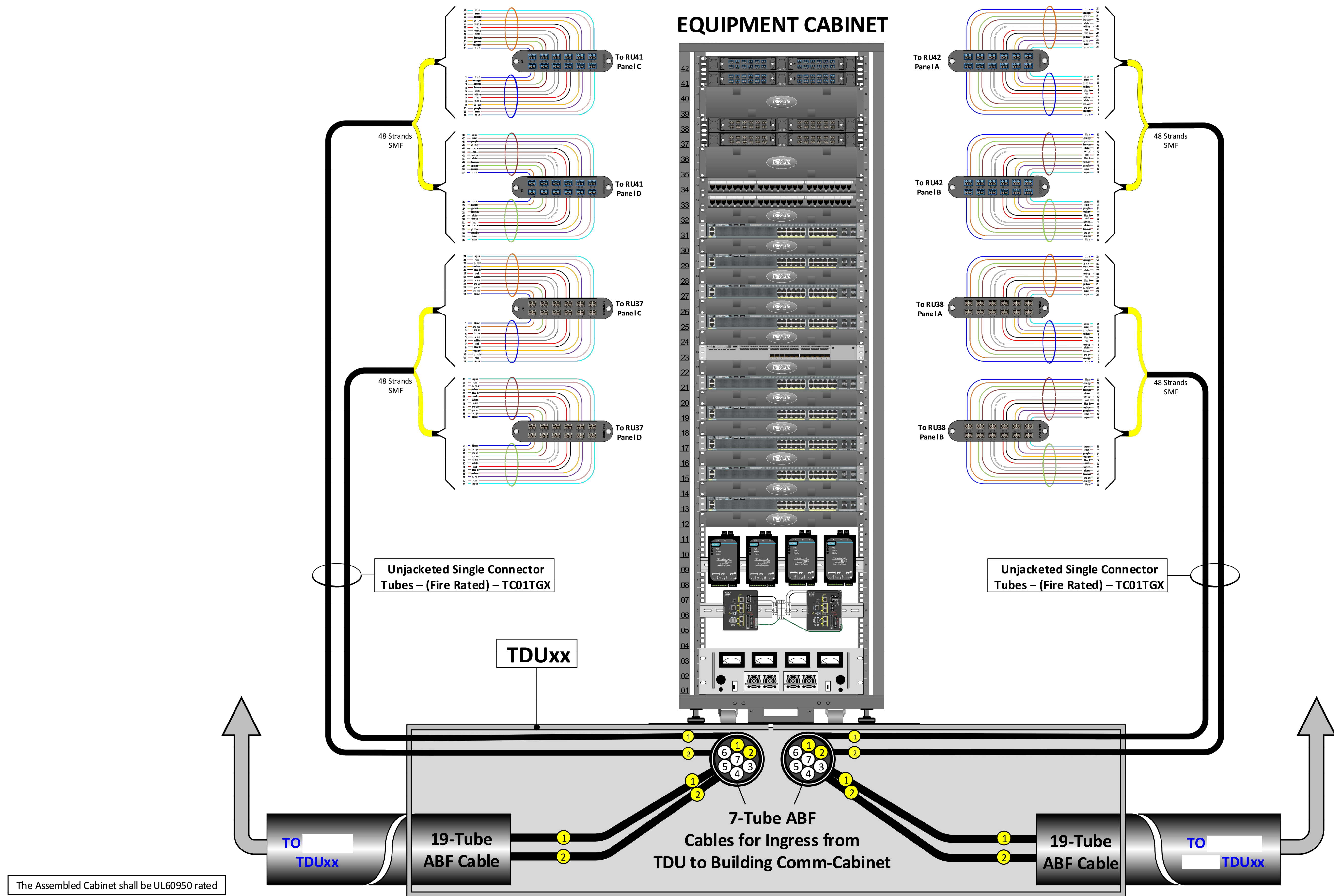
OPTION A

OPTION B

1. LOGO TO BE SPECIFIED: COMMUNICATIONS
2. THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 22,500 LBS OVER A 10" X 20" AREA AND MUST PASS A MINIMUM STATIC TEST LOAD OF 33,750 LBS.

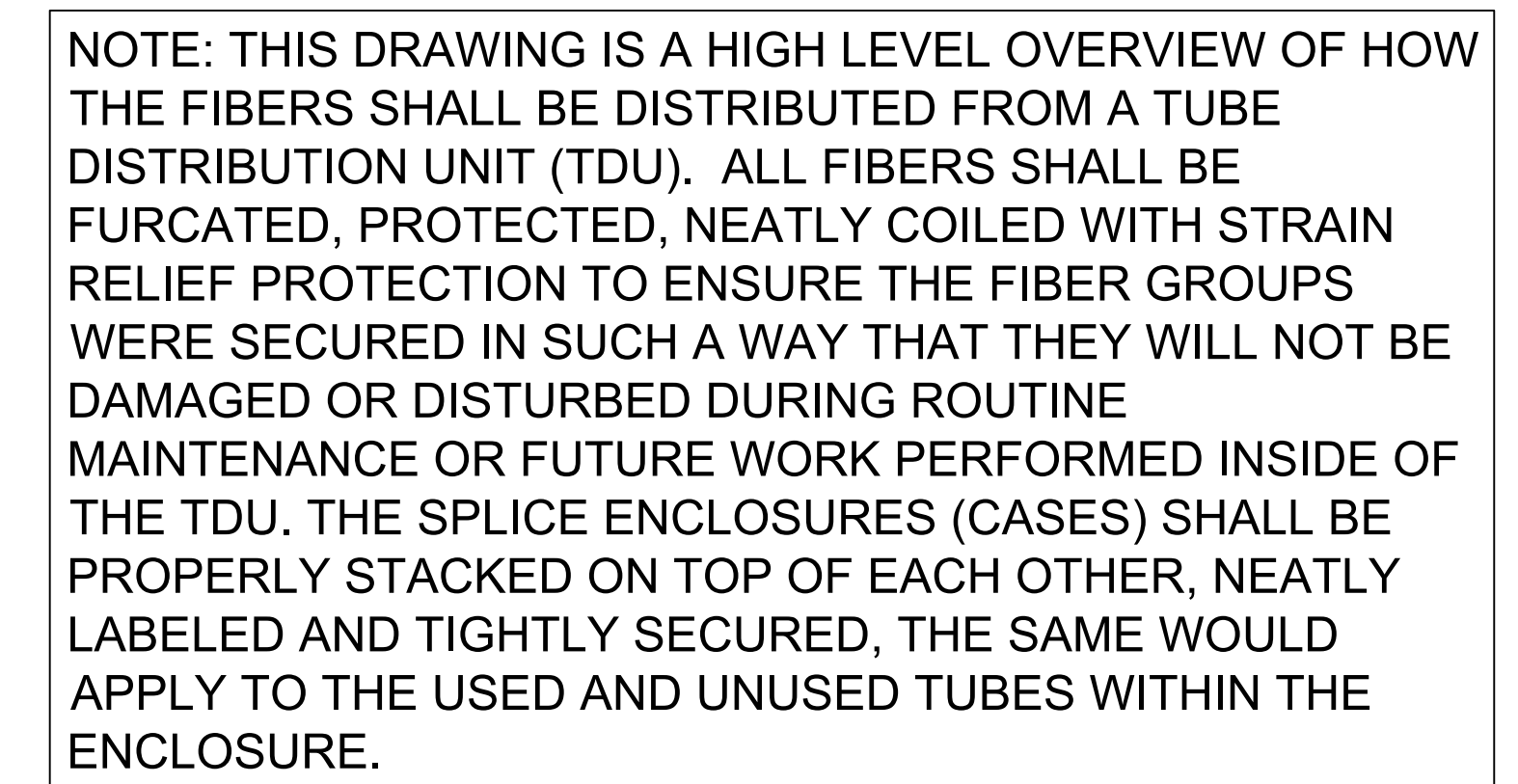
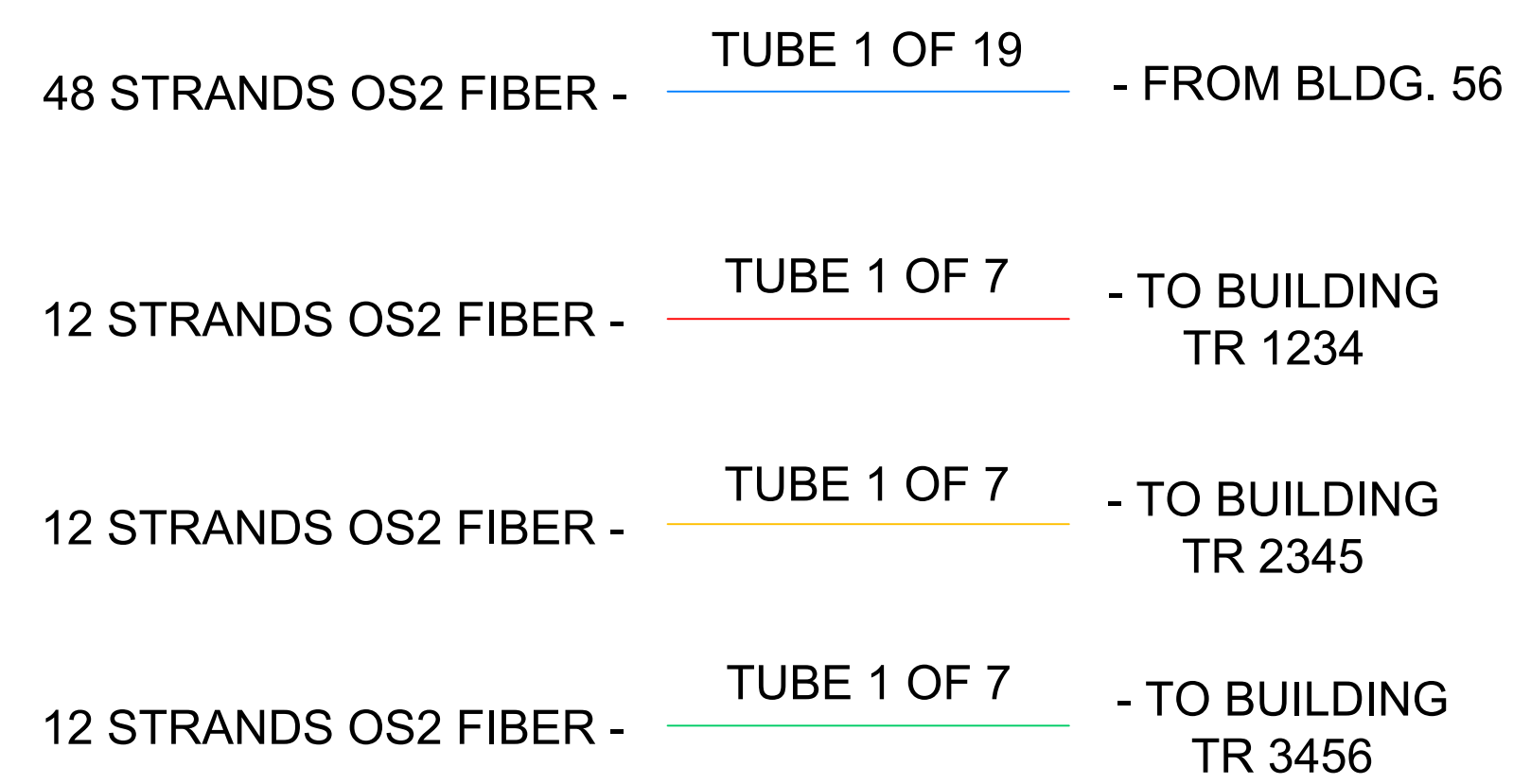
A
B
C
D
E
F

A
B
C
D
E
F



F4 C-501 TUBE DISTRIBUTION UNIT (TDU) TO FIBER PATCH PANEL (FPP) DETAIL
SCALE: NTS

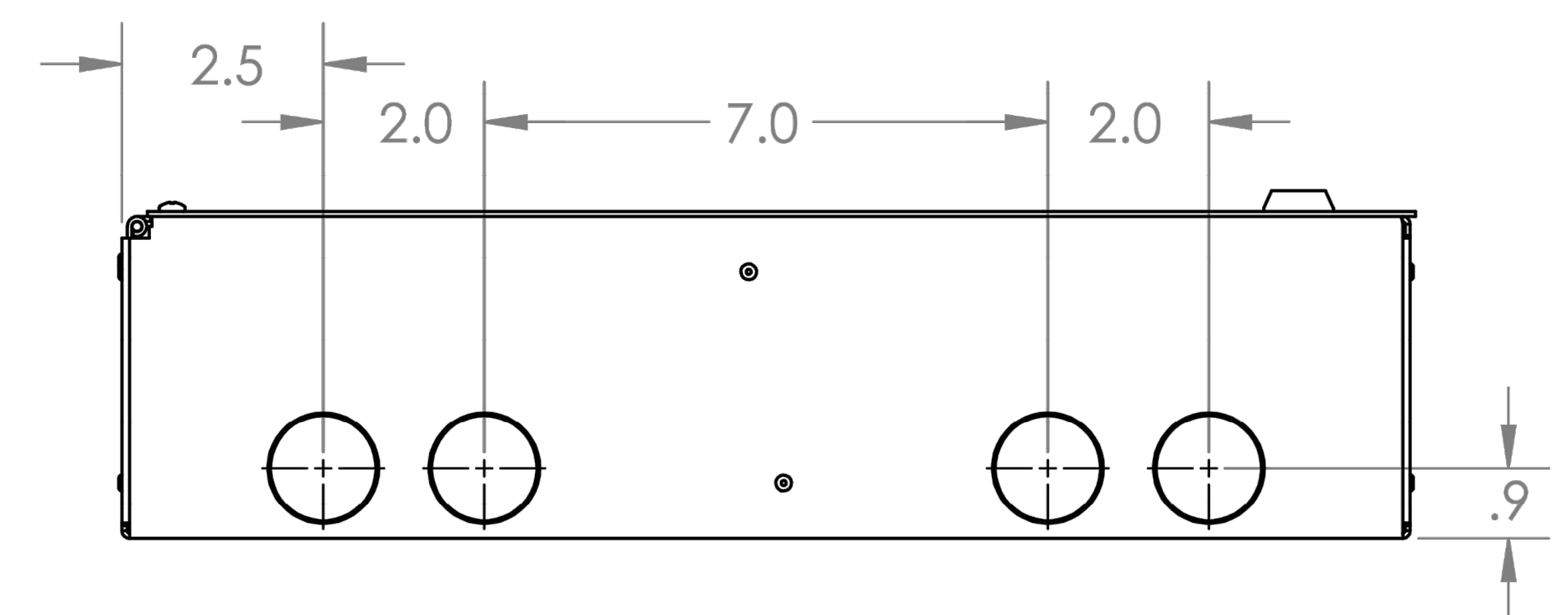
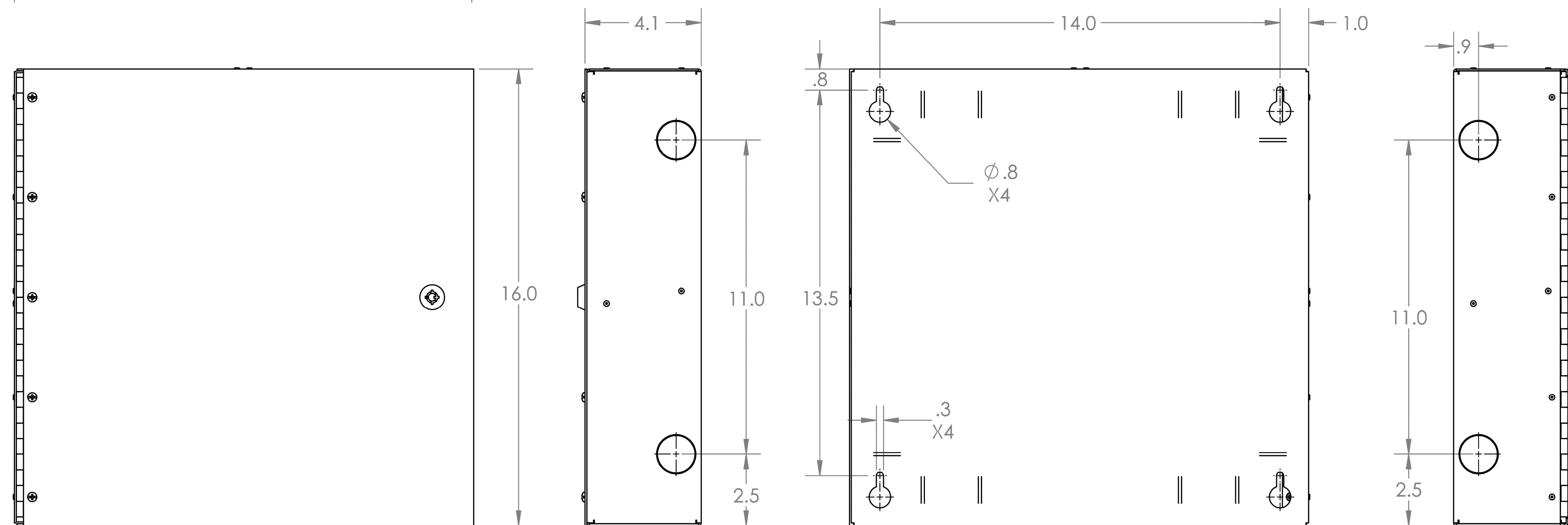
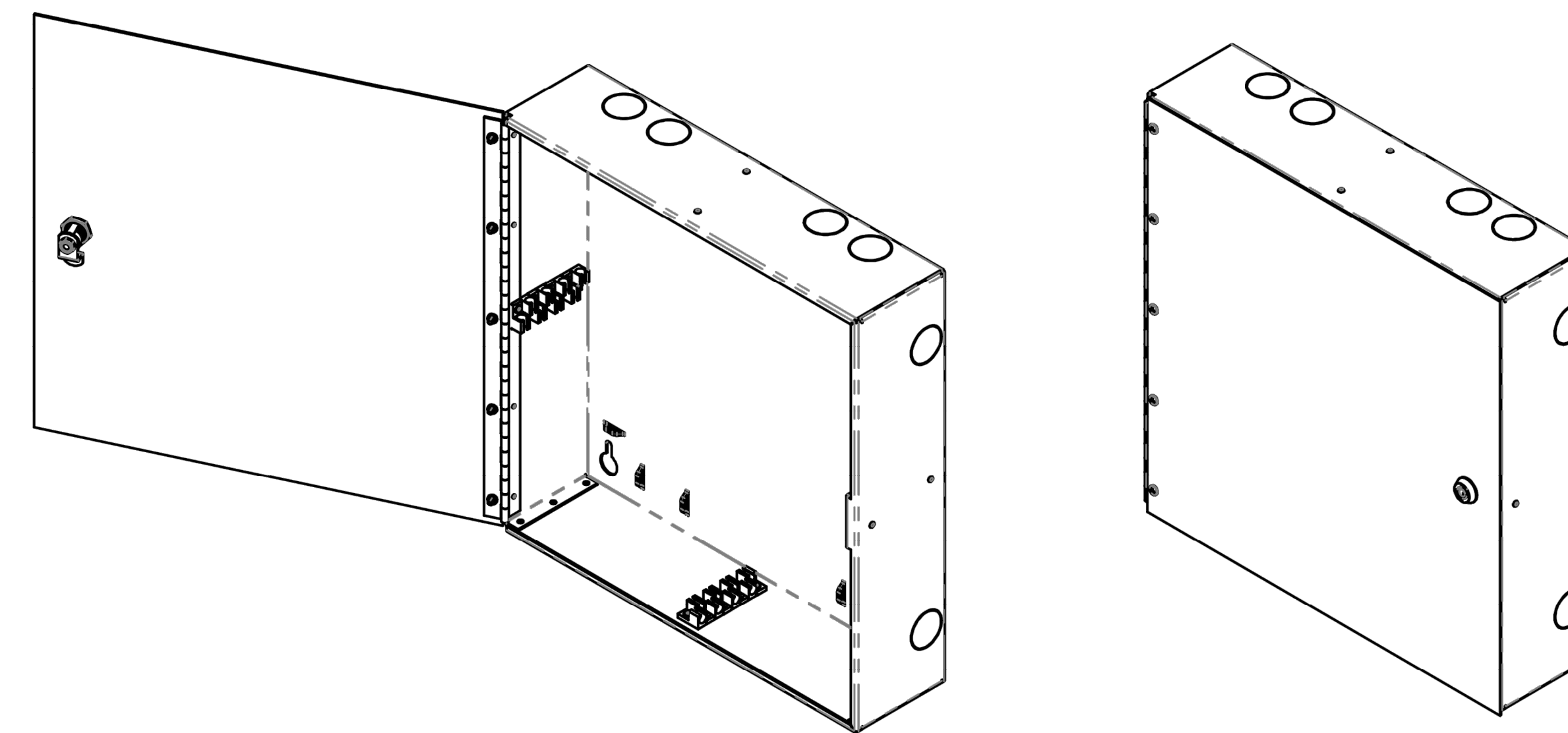
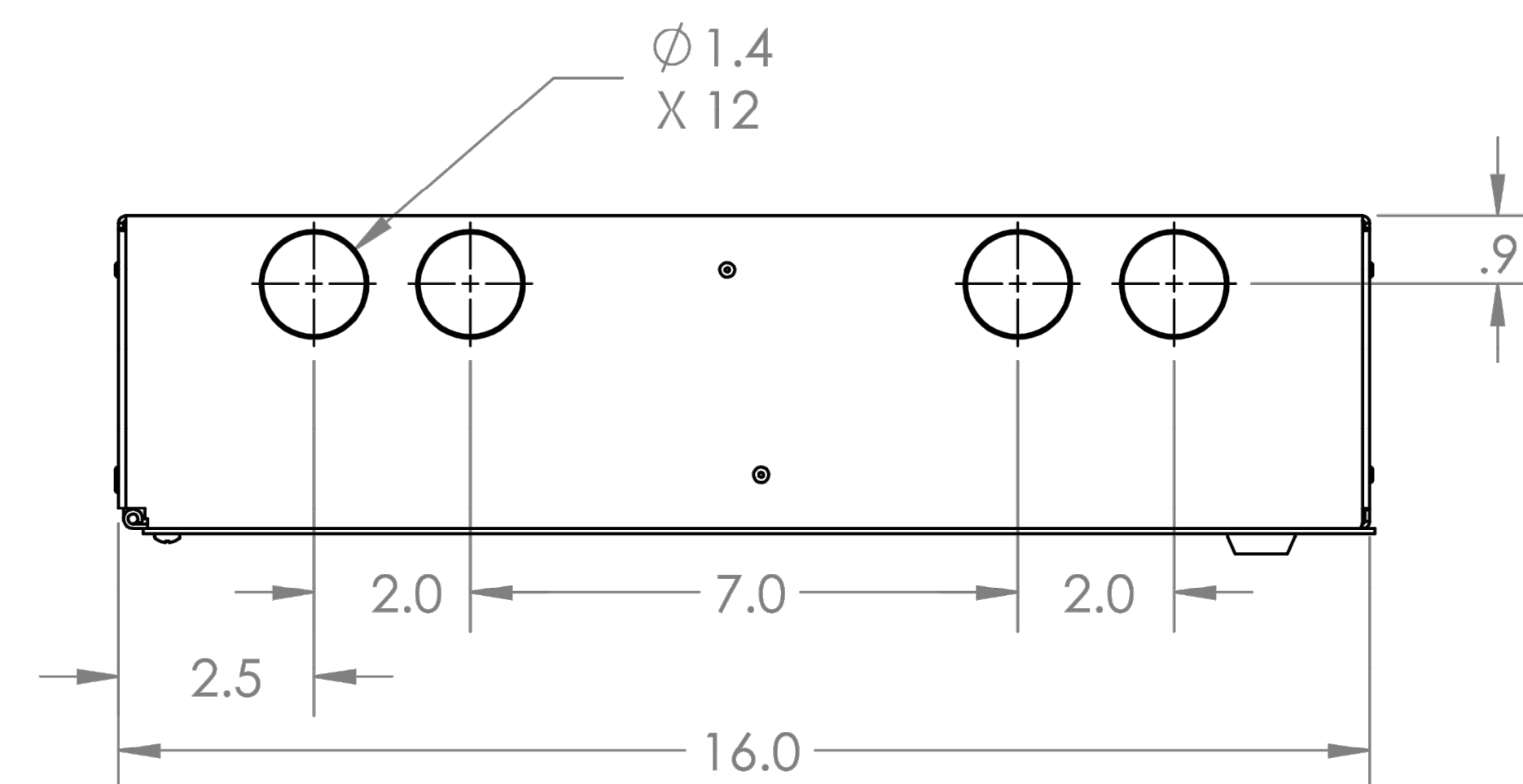
Revisions:	Date:	CONSULTANT ENGINEERING DISCIPLINE: wsp WSP USA Inc. 33301 9th Avenue South Suite 300 Federal Way, WA 98003-2600 TEL: (206) 431-2300 FAX: (206) 431-2250	ARCHITECT/ENGINEER OF RECORD A/E: SPEEDS DESIGN BUILD 625 1ST AVE, STE 301 SEATTLE, WA 98104 (206) 590-2118 RAY SPEEDS SDB SPEEDSDSIGNBUILD	STAMP Bicsi Michael Carson BICSI ID # 357798 Expires 12-31-23 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title COMMUNICATIONS DETAILS Approved:	Phase CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO Issue Date 03/31/2022	Project Number 657-21-701JB Building Number Drawing Number C-501 14 OF 435



TUBE DISTRIBUTION UNIT (TDU) LAYOUT TYPICAL DETAIL

[illegible]

DE06MDU - TUBE DISTRIBUTION UNIT - MODULAR, INDOOR



TUBE DISTRIBUTION UNIT (TDU) TYPICAL DETAIL

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