

## TCxxTOX / TCxxTOD DIELECTRIC (OSP) TUBE CABLE SERIES

## CONSTRUCTION

SEL Part Number	Product Description	Outside Diameter Inches – (mm)	Max. Weight (lbs./kft.)	Max. Tensile Load (lbs.)
TC01TOX	1 - Tube, Water Blocking Tape, Black Polyethylene Outer Jacket	0.53 - (13.5)	59	200
TC02TOX	2 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	0.81 - (20.6)	90	200
TC04TOD	4 - Tubes, HDPE Central Member, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	0.94 - (23.9)	146	400
TC07TOX	7 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	1.14 - (29.0)	203	400
TC12TOX	12 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	01.46 - (37.1)	300	400
TC19TOX	19 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	1.77 - (45.0)	444	500
TC24TOX	24 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	2.0 - (50.8)	650	500

**Tube Construction:** High-Performance Black Polyethylene. **Tube Diameters:** O.D. 8mm, I.D. 6mm

**TCxxTOX and TC04TOD:** Designed for all normal OSP environments in duct and in direct buried applications.

**Tube Cable Ends:** Both ends of the tube cable are accessible on the reel. Each tube is sealed with a plastic cap or plug. Tube cable ends are sealed with a heat shrink end cap.

**Reel Markings:** The outside of each flange is marked with the Sumitomo Electric Lightwave Corp. product part number, the tube cable manufactured length in feet, and the text *"Do Not Lay Flat"* and *"Forklift from Flanges Only."*

### TUBE CABLE (1000ft. 3000ft.) REEL LENGTHS

SEL Part Number	Reel F x W (Inches)		Minimum Drum Diameter (Inches)		Empty Reel Weight (lbs.)		Full Reel Weight (lbs.)	
	1000ft.	3000ft.	1000ft.	3000ft.	1000ft.	3000ft.	1000ft.	3000ft.
TC01TOX	54 x 16	60 x 42	40	40	116	420	175	597
TC02TOX	54 x 16	60 x 42	40	40	116	420	203	682
TC04TOD	54 x 16	60 x 42	40	40	116	420	253	831
TC07TOX	54 x 32	60 x 42	40	40	137	420	342	1035
TC12TOX	60 x 42	72 x 45	40	36	420	543	720	1443
TC19TOX	60 x 42	72 x 45	40	36	420	543	863	1872
* TC24TOX	72 x 45	* 72 x 45	36	* 36	543	*543	1193	* 2493

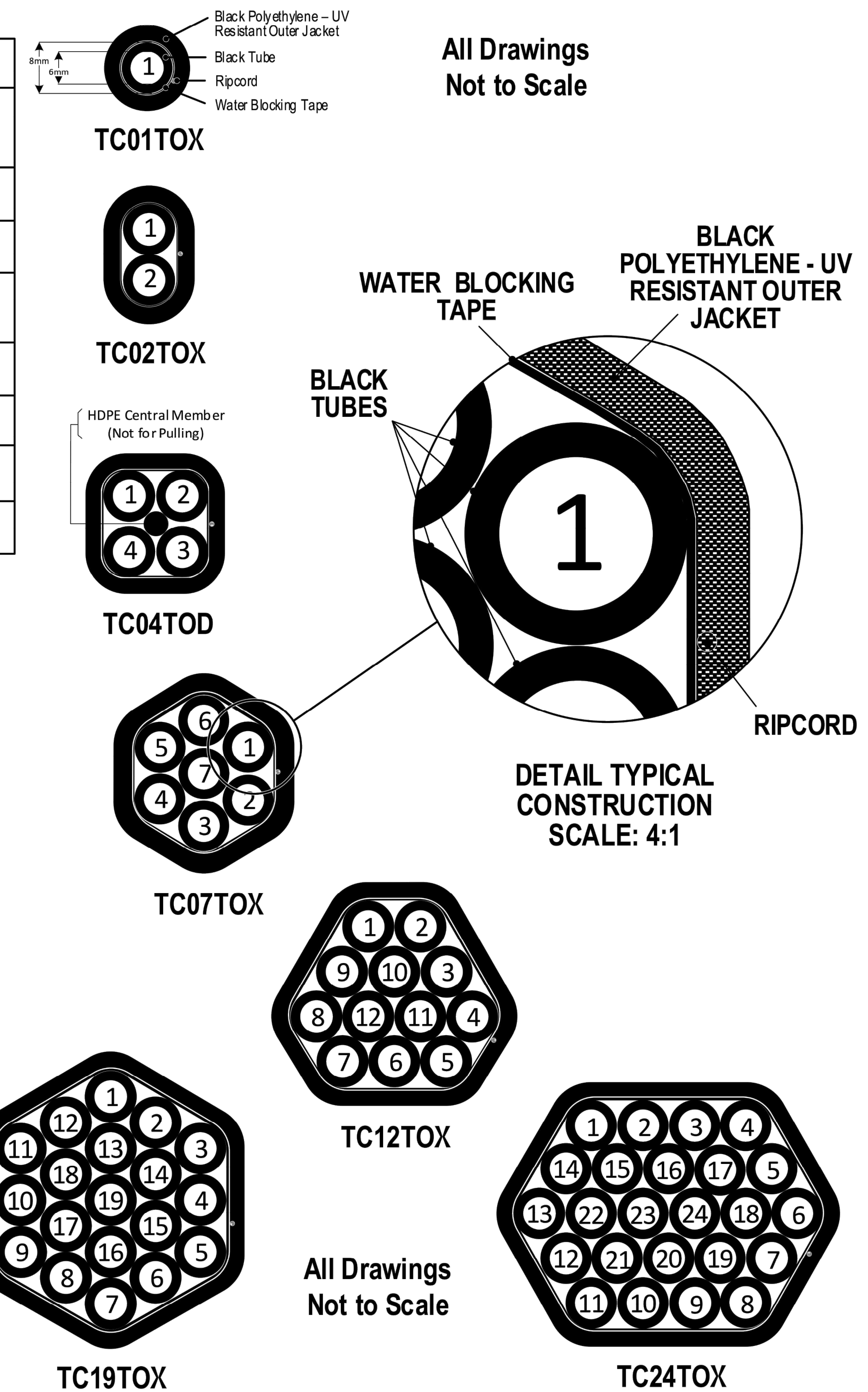
**\* NOTE: TC24TOX:** is only available in 1000ft. and 2000ft. Reel Sizes.

**TUBE CABLE MARKINGS:** The outside surface of each jacketed cable is marked every two (2) feet with the following product identification information:

## PERFORMANCE




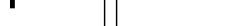
Property	Specification
Operation Temperature Range	-40°F to +158°F (-40°C to +70°C) [ per ICEA 640 ]
Minimum Bend Radius During / After Installation	During Installation – 20 X Cable O.D. After Installation – 10 X Cable O.D.

Refer SEL Specification SF-F04-005 - (TCxxTOX-TOD)



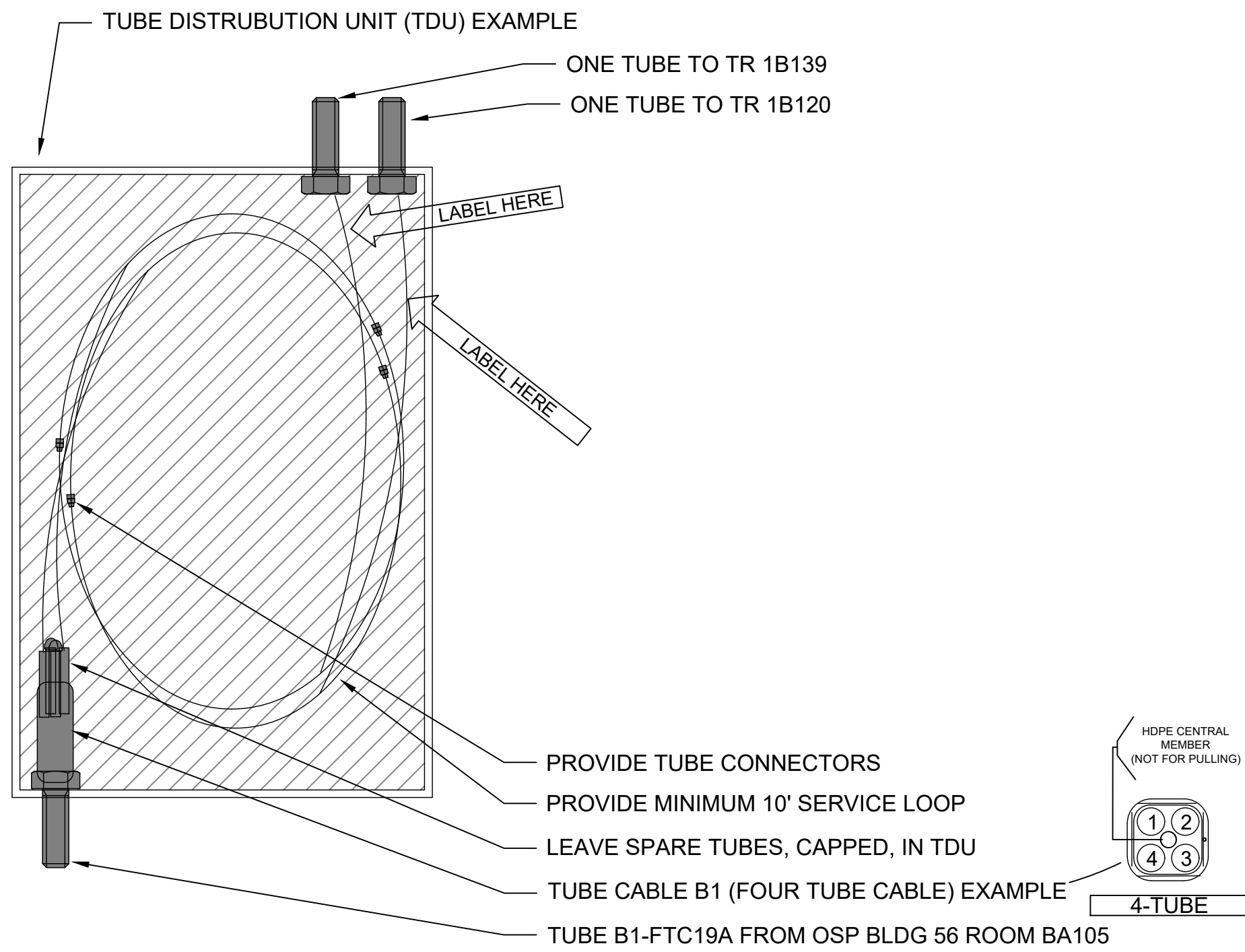
### DIELECTRIC TUBE CABLE SERIES DETAIL

SCALE: NTS

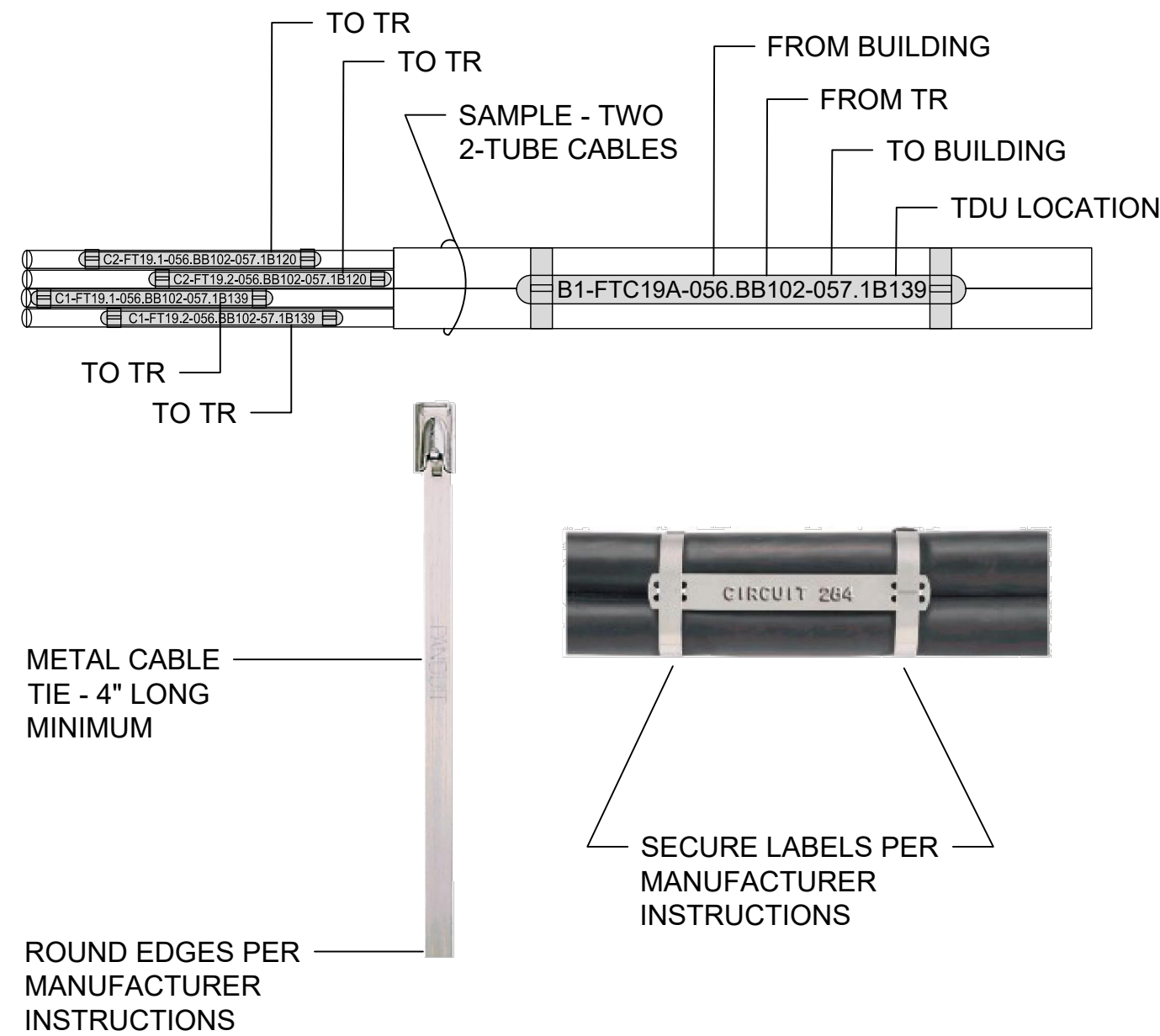
		<b>CONSULTANT</b> <b>ENGINEERING DISCIPLINE:</b>  WSP USA Inc. 33301 9th Avenue South Suite 300 Federal Way, WA 98003-2600 TEL: (206) 431-2300 FAX: (206) 431-2250		<b>ARCHITECT/ENGINEER OF RECORD</b> <b>A/E:</b> <b>SPEES DESIGN BUILD</b> 625 1ST AVE. STE 301 SEATTLE, WA 98104 (206) 590-2118 RAY SPEES 		<b>STAMP</b> 		Office of Construction and Facilities Management  U.S. Department of Veterans Affairs		<b>Drawing Title</b> COMMUNICATIONS DETAILS <b>Approved:</b>		<b>Phase</b> CONSTRUCTION DOCUMENTS FULLY SPRINKLERED		<b>Project Title</b> EHRM INFRASTRUCTURE UPGRADES <b>Location</b> ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO <b>Issue Date</b> 03/31/2022 <b>Checked</b> Checker <b>Drawn</b> Author		<b>Project Number</b> 657-21-701JB <b>Building Number</b> <b>Drawing Number</b> <b>C-504</b> 17 OF 435	
<b>Revisions:</b>		<b>Date:</b>															



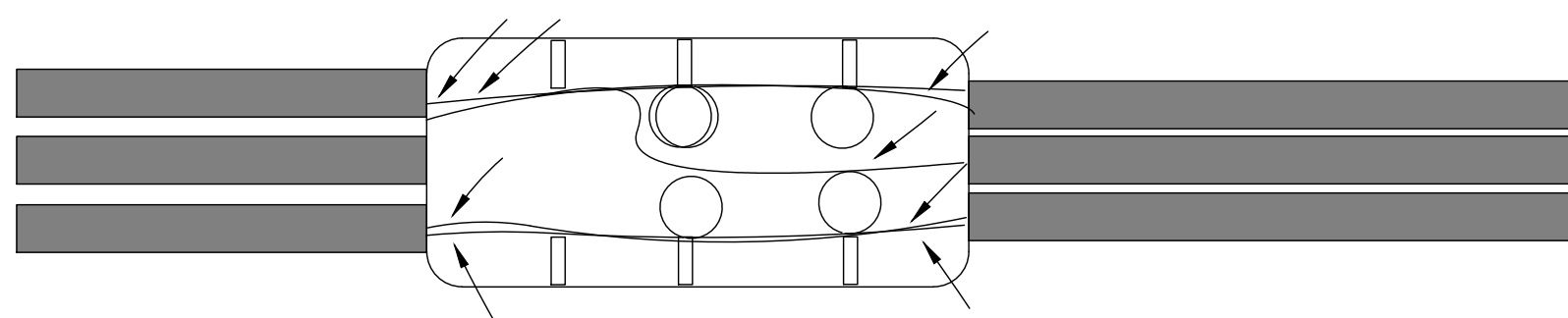
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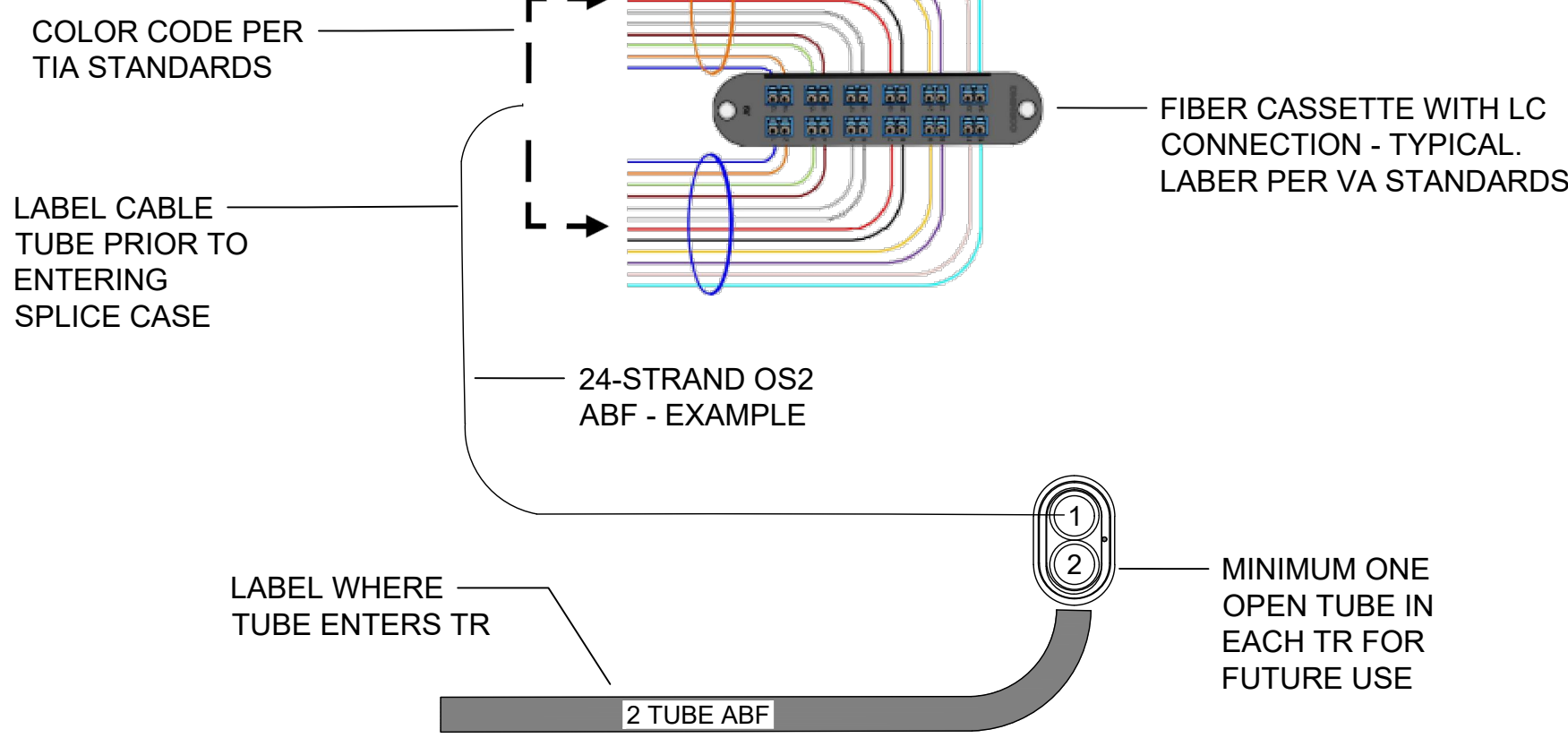
**C2 TDU LABELING SCHEME EXAMPLE**  
SCALE: NTS



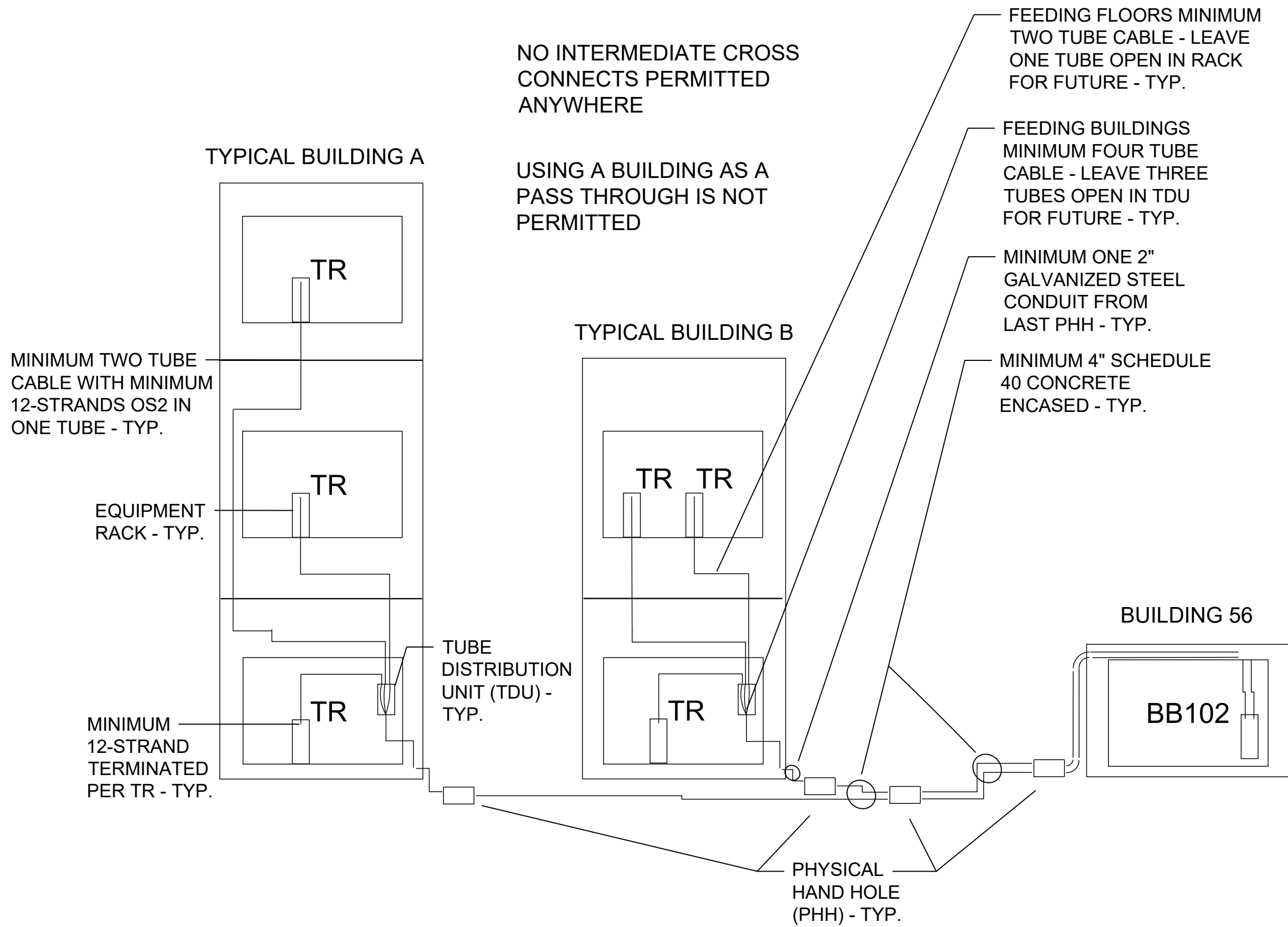
**E2 METAL LABELING MATERIALS EXAMPLE**  
SCALE: NTS



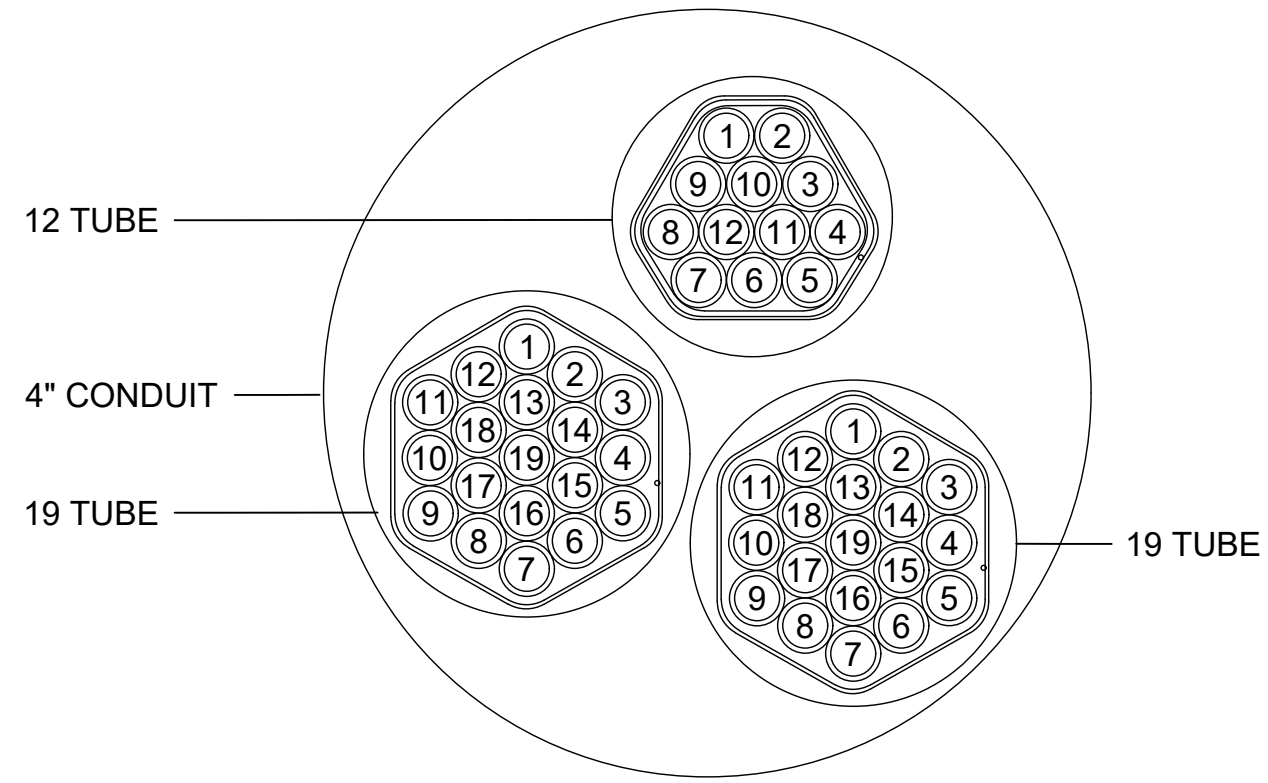
**F2 TUBE CABLE LABELING LOCATIONS IN PHHs**  
SCALE: NTS



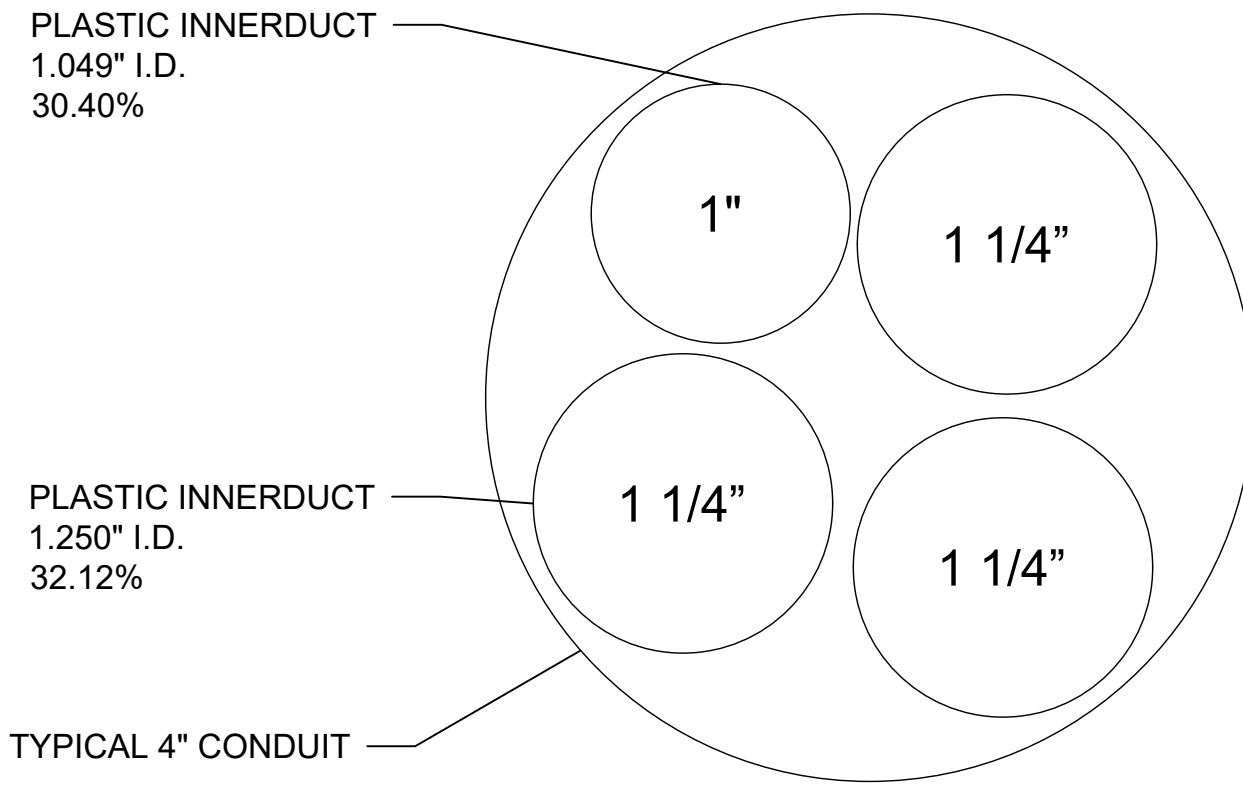
**B5 EXAMPLE - TR CONTAINING A TWO TUBE CABLE WITH 24-STRAND OS2 ABF**  
SCALE: NTS



**E5 BUILDING TO BUILDING FIBER - TYPICAL**  
SCALE: NTS



**B8 MAX FILL RATIO FOR 4" CONDUIT**  
SCALE: NTS



**B8 SERVICE PROVIDER ENTRY CONDUIT INNERDUCT**  
SCALE: NTS

B

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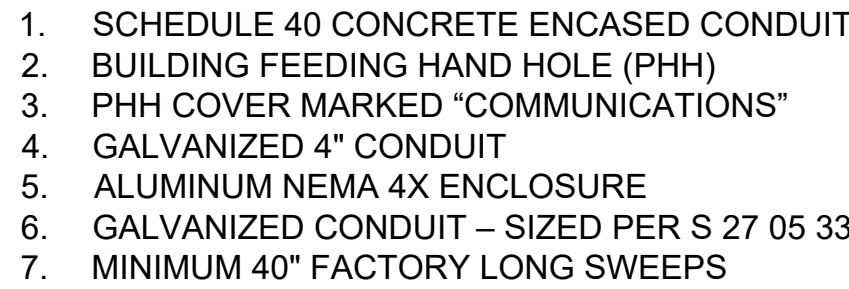
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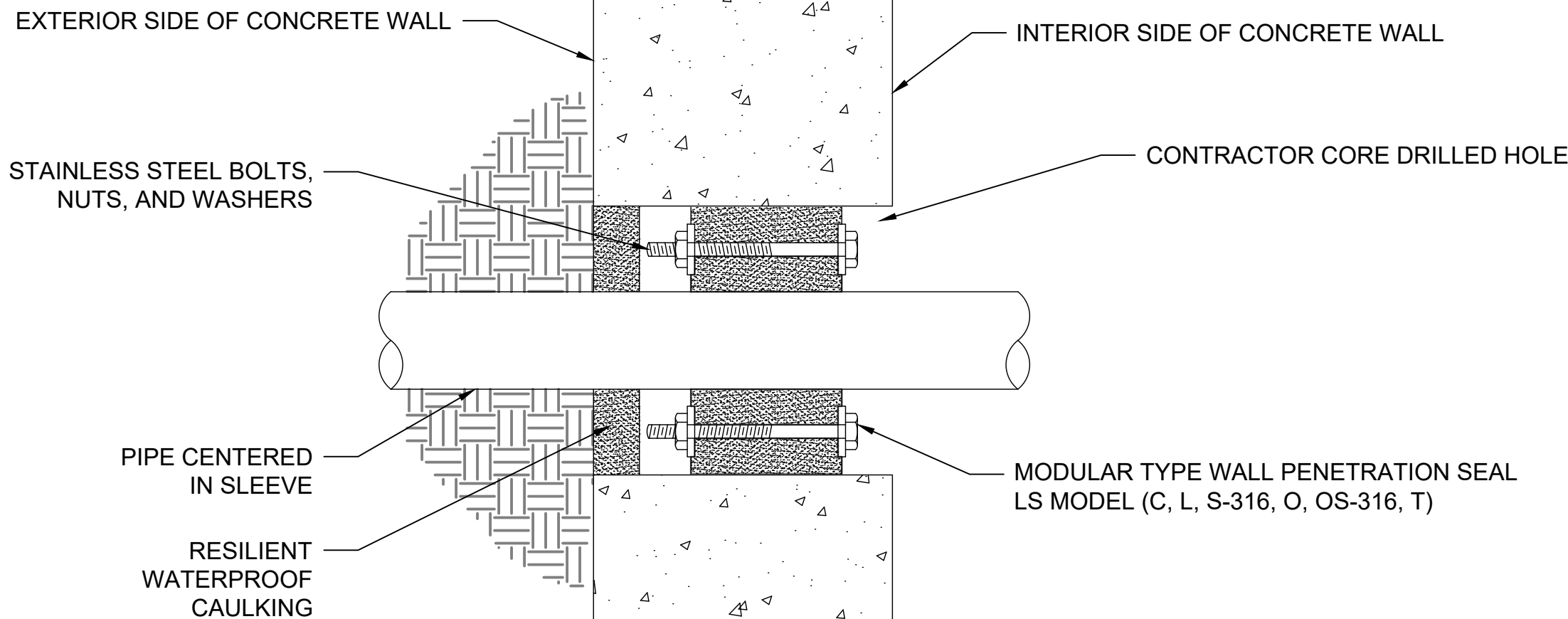
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Revisions:	Date:	<b>CONSULTANT</b> ENGINEERING DISCIPLINE: <b>wsp</b> WSP USA Inc. 33301 9th Avenue South Suite 300 Federal Way, WA 98003-2600 TEL: (206) 431-2300 FAX: (206) 431-2250	<b>ARCHITECT/ENGINEER OF RECORD</b> A/E: SPEEDS DESIGN BUILD 625 1ST AVE, STE 301 SEATTLE, WA 98104 (206) 590-2118 RAY SPEEDS <b>SDB</b> SPEEDSDESIGNBUILD	STAMP <b>Bicsi</b> Michael Carson BICSI ID # 357798 Expires 12-31-23 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER	Office of Construction and Facilities Management <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title COMMUNICATIONS DETAILS	Phase CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 657-21-701JB Building Number
						Approved:	FULLY SPRINKLERED	Location ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO	Drawing Number <b>C-505</b> 18 OF 435



**BUILD**  
SCALE: NTS



C4	V
C-506	SC

VA FORM 08-6231									
1	2	3	4	5	6	7	8	9	10




TARGET BUILDING NUMBER	ROOM NUMBER OF TARGET BUILDING TR	SOURCE BUILDING AND ROOM NUMBER	SIDE-A FIBER PLANT COMMENTS	FIBER STRANDS TO BUILDING	FIBER STRANDS TERMINATED	# OF FIBER CABLES TO BUILDING	CABLE CONTAINING FIBER	SPUCE STRAND NUMBERS FROM CABLE
56	BB102	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE - RACKS 7, 8, or 9	72		1	1	1-12
	BB102		INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BB102		12		1	13-24
	BA105		INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BB102		12		1	25-36
	1A109		INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BB102		12		1	37-48
	2A122		INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BB102		12		1	49-60
	3A122		INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BB102		12		1	61-72
55	1C132	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH TWO 48 STRAND OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	96		2	1	1-12
	1C132		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		1	13-24
	1B104		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		1	25-36
	1A129		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		1	37-48
	2A136		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		2	1-12
	2C144		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		2	13-24
	3A120		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		2	25-36
	3C149		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1C132		12		2	37-48
1	GC11A	ALL SIDE-A FIBER	PLACE AND TERMINATE ALL NEW SIDE-A OS2 FIBER IN NEW RACK IN GC11A ABOVE NEW SIDE-B FIBER	936	768			
	GC12	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	1	1-12
	C102D	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	1	1-12
	E1E15	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	2	1-12
	2C10A	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	2	1-12
	E303	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	2	1-12
	3C13	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS OS2 FIBER FROM IN NEW RACK IN GC11A		12	N/A	2	1-12
24	G02A	BLDG 1 GC11A	INSTALL SPLICE HERE WITH 48 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	48		1	1	1-12
	G02A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02A		12		1	13-24
	114B		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02A		12		1	25-36
	205A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02A		12		1	37-48
58	104	BLDG 1 GC11A	INSTALL AND TERMINATE 24 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	24	24	1	1	1-24
51	BE111	BLDG 1 GC11A	INSTALL SPLICE HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-24
	BE111		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BE111		12		1	25-36
	1A102		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BE111		12		1	37-48
	1A183		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BE111		12		1	49-60
	1A139A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN BE111		12		1	61-72
52	GN29A	BLDG 1 GC11A	INSTALL SPLICE HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-12
	GN29A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GN29A		12		1	13-24
	1N82A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GN29A		12		1	25-36
	1S33		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GN29A		12		1	37-48
	2N91		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GN29A		12		1	49-60
	2S53		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GN29A		12		1	61-72
54	1A133	BLDG 1 GC11A	INSTALL SPLICE HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-24
	1A133		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1A133		12		1	25-36
	BA-100		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1A133		12		1	37-48
	BB-115		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1A133		12		1	49-60
	Penthouse		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1A133		12		1	61-72
53	GS10	BLDG 1 GC11A	INSTALL SPLICE HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-12
	GS10		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GS10		12		1	13-24
	G502A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GS10		12		1	25-36
	1S002		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GS10		12		1	37-48
	1S011		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GS10		12		1	49-60
	2S001		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN GS10		12		1	61-72
53T	109	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12	12	1	1	1-12
60T	108	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12	12	1	1	1-12
60	102	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12	12	1	1	1-12
51T	109	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12	12	1	1	1-12
75	1B105	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12	12	1	1	1-12
57	1B139	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 48 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	48		1	1	1-24
	1B139		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1B139		12		1	25-36
	1B120		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 1B139		12		1	37-48
23	G09B	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 48 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	48		1	1	1-24
	G09B		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G09B		12			25-36
	121		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G09B		12		1	37-48
3	B025A	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 48 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	48		1	1	1-12
	B025A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN B025A		12		1	13-24
	117		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN B025A		12		1	25-36
	224A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN B025A		12		1	37-48
3T	118	BLDG 1 GC11A	INSTALL AND TERMINATE 12 STRANDS INDOOR/OUTDOOR OS2 FIBER ON RACK PER DRAWINGS	12		1		1-12
18	011A	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-24
	011A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 011A		12		1	25-36
	119		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 011A		12		1	37-48
	213		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 011A		12		1	49-60
	312		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 011A		12		1	61-72
2	G02	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 72 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 24 STRANDS UNTERMINATED (DARK) HERE	72		1	1	1-24
	G04		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02		12		1	25-36
	111		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02		12		1	37-48
	209		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02		12		1	49-60
	308		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN G02		12		1	61-72
25	117A	BLDG 1 GC11A	INSTALL SPLICE SHELF HERE WITH 48 STRANDS OS2 INDOOR/OUTDOOR FIBER - LEAVE 12 STRANDS UNTERMINATED (DARK) HERE	48		1	1	1-12
	117A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 117A		12		1	13-24
	204B		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 117A		12		1	25-36
	313A		TERMINATE 12 STRANDS OS2 FIBER FROM SPLICE IN 117A		12		1	37-48

Revisions:	Date:

CONSULTANT


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RAY SPEEDS

STAMP



Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

FIBER DISTRIBUTION SCHEDULE  
SIDE A

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-600

20 OF 435



A

B

C

D

E

F


BUILDING NUMBER	ROOM NUMBER OF BUILDING TR	SOURCE BUILDING AND ROOM NUMBER	SIDE-B FIBER PLANT COMMENTS	FIBER STRANDS TO BUILDING	FIBER STRANDS TERMINATED	TUBE CABLES FROM LAST PHH	TUBE CABLE CONTAINING FIBER	FIBER STRAND NUMBERS FROM TUBE CABLE
56	BB102 BA105 1A109 2A122 3A122	ALL SIDE-B FIBER BLDG 56 BB102 BLDG 56 BB102 BLDG 56 BB102 BLDG 56 BB102	TERMINATE ALL NEW SIDE-B OS2 FIBER HERE IN LAST ROW, RACKS 7, 8, AND 9 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM BB102, RACK 9 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM BB102, RACK 9 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM BB102, RACK 9 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM BB102, RACK 9	1272	1056	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	1-12 1-12 1-12 1-12 1-12
55	TDU 1C132 1B104 1A129 2A136 2C144 3A120 3C149	BLDG 56 BB102	ROOM 1C132 INSTALL TDU HERE WITH TWO 48 STRAND OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1C132	96	12	4	1	1-12 13-24 25-36 37-48 1-12 13-24 25-36 37-48
1	GC11A TDU GC12 C100D E1E15 2C10A E303 3C13	BLDG 56 BB102	INSTALL AND TERMINATE FOUR 72 STRAND OSP INDOOR/OUTDOOR FIBER IN A TWELVE TUBE CABLE - TERMINATE ALL STRANDS IN NEW RACK IN GC11A ROOM GC12 INSTALL TDU HERE WITH TWO 48 STRAND OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GC12	288	288	12	1-4	1-288 1-24 25-36 37-48 1-12 13-24 25-36 37-48
24	TDU G02A 114B 205A	BLDG 56 BB102	ROOM G02A INSTALL TDU HERE WITH 48 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02A	48	12	4	1	1-12 13-24 25-36 37-48
58	RACK 104	BLDG 56 BB102	NO TDU - PLACE 24 STRANDS OSP INDOOR/OUTDOOR IN A TWO TUBE CABLE - FUSION SPLICED 12 ON RACK TERMINATE 12 STRANDS OS2 FIBER FROM RACK IN 104	24	12	2	1	1-12 13-24
51	TDU BE111 1A102 1A183 1A139A	BLDG 56 BB102	ROOM BE111 INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN BE111 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN BE111 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN BE111 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN BE111	72	12	4	1	1-24 25-36 37-48 49-60 61-72
52	TDU GN29A 1N82A 1533 2N91 2553	BLDG 56 BB102	ROOM GN29A INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GN29A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GN29A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GN29A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GN29A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GN29A	72	12	4	1	1-12 13-24 25-39 37-48 49-60 61-72
54	TDU 1A133 BA-100 BB-115 Penthouse	BLDG 56 BB102	ROOM 1A133 INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1A133 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1A133 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1A133 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1A133	72	12	4	1	1-24 25-39 37-48 49-60 61-72
53	TDU GS10 G502A 15002 15011 25001	BLDG 56 BB102	ROOM GS10 INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GS10 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GS10 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GS10 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GS10 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN GS10	72	12	4	1	1-12 13-24 25-39 37-48 49-60 61-72
53T	109	BLDG 56 BB102	NO TDU - PLACE AND TERMINATE 12 STRANDS INDOOR/OUTDOOR IN A TWO TUBE CABLE ON RACK PER DRAWINGS	12	12	2	1	
60T	108	BLDG 56 BB102	NO TDU - PLACE AND TERMINATE 12 STRANDS INDOOR/OUTDOOR IN A TWO TUBE CABLE ON RACK PER DRAWINGS	12	12	2	1	
60	102	BLDG 56 BB102	NO TDU - PLACE AND TERMINATE 12 STRANDS INDOOR/OUTDOOR IN A TWO TUBE CABLE ON RACK PER DRAWINGS	12	12	2	1	
51T	109	BLDG 56 BB102	NO TDU - PLACE AND TERMINATE 12 STRANDS INDOOR/OUTDOOR IN A TWO TUBE CABLE ON RACK PER DRAWINGS	12	12	2	1	
75	RACK 1B105	BLDG 56 BB102	NO TDU - PLACE 24 STRANDS OSP INDOOR/OUTDOOR IN A TWO TUBE CABLE - FUSION SPLICED 12 ON RACK TERMINATE 12 STRANDS OS2 FROM RACK IN 1B105	24	12	2	1	1-12 13-24
57	TDU 1B139 1B120	BLDG 56 BB102	ROOM 1B139 INSTALL TDU HERE WITH 48 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1B139 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 1B139	48	12	4	1	1-24 25-36 37-48
23	G05 G09B 121	BLDG 56 BB102	INSTALL TDU HERE WITH 48 STRANDS OSP INDOOR/OUTDOOR IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE - NOT A TR TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G05 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G05	48	12	4	1	1-24 25-36 37-48
3	TDU B025A 117 224A	BLDG 56 BB102	ROOM B025A INSTALL TDU HERE WITH 48 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN B025A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN B025A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN B025A	48	12	4	1	1-12 13-24 25-36 37-48
3T	RACK 118	BLDG 56 BB102	NO TDU - PLACE 24 STRANDS OSP INDOOR/OUTDOOR IN A TWO TUBE CABLE - FUSION SPLICED 12 ON RACK TERMINATE 12 STRANDS OS2 FIBER FROM RACK IN 118	24	12	2	1	1-12 13-24
18	TDU 011A 119 213 312	BLDG 56 BB102	ROOM 011A INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 24 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 011A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 011A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 011A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 011A	72	12	4	1	1-24 25-36 37-48 49-60 61-72
2	TDU G02 G04 111 209 308	BLDG 56 BB102	ROOM G02 INSTALL TDU HERE WITH 72 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02 TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN G02	72	12	4	1	1-12 13-24 25-36 37-48 49-60 61-72
25	TDU 117A 204B 313A	BLDG 56 BB102	ROOM 117A INSTALL TDU HERE WITH 48 STRANDS OSP INDOOR/OUTDOOR FIBER IN A FOUR TUBE CABLE - FUSION SPLICED 12 STRANDS HERE TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 117A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 117A TERMINATE 12 STRANDS OS2 FIBER IN A TWO CABLE TUBE RISER RATED TUBE CABLE FROM TDU IN 117A	48	12	4	1	1-12 13-24 25-36 37-48

HAND HOLE AND SPARE TUBE CABLE IN HAND HOLE SCHEDULE					
(FROM)	/	(PHH-##)	SERVES BLDG	.TDU-ROOM#	MINIUMUM SPARE TUBES IN PHH
(056.BB102)	/	(PHH.01)	56	BB102	
(PHH.01)	/	(PHH.SP1A)			5
(PHH.SP1A)	/	(PHH.SP2A)			5
(PHH.01)	/	(PHH.02)			5
(PHH.02)	/	(PHH.02A)	55	GC510	
(PHH.02)	/	(PHH.02B)	24	G02A	
(PHH.02)	/	(PHH.03)			5
(PHH.03)	/	(PHH.03A)	58	104	
(PHH.03)	/	(PHH.03B)	51	BE111	
(PHH.03)	/	(PHH.03C)	FUTURE		5
(PHH.03)	/	(PHH.04)			2
(PHH.04)	/	(PHH.04A)	52	GN29A	
(PHH.04)	/	(PHH.05)	54	BB-115	
(PHH.05)	/	(PHH.06)			5
(PHH.06)	/	(PHH.06A)	53T	109	
(PHH.06)	/	(PHH.16B)	53	G502A	
(PHH.07)	/	(PHH.07A)	60	102	
(PHH.07)	/	(PHH.07B)	60T	108	
(PHH.07)	/	(PHH.07C)	51T	109	
(PHH.07)	/	(PHH.07D)	75	1B105	
(PHH.07)	/	(PHH.08)	57	1B139	
(PHH.08)	/	(PHH.09)			5
(PHH.09)	/	(PHH.09A)	23	G05	
(PHH.09)	/	(PHH.10)			5
(PHH.10)	/	(PHH.10A)	1	GC11A & G02A	
(PHH.01A)	/	(PHH.13)	56	BB102	5
(PHH.13)	/	(PHH.13C)	18	011A	
(PHH.13)	/	(PHH.13B)	3T	118	
(PHH.13B)	/	(PHH.13A)	3	B025A	
(PHH.13)	/	(PHH.12)			5
(PHH.12)	/	(PHH.12A)	2	G02	
(PHH.12)	/	(PHH.11)			5
(PHH.11)	/	(PHH.11A)	25	117A	
(PHH.11)	/	(PHH.10)			5

Revisions:	Date:

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Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

TUBE CABLE AND FIBER DISTRIBUTION SCHEDULES 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-601

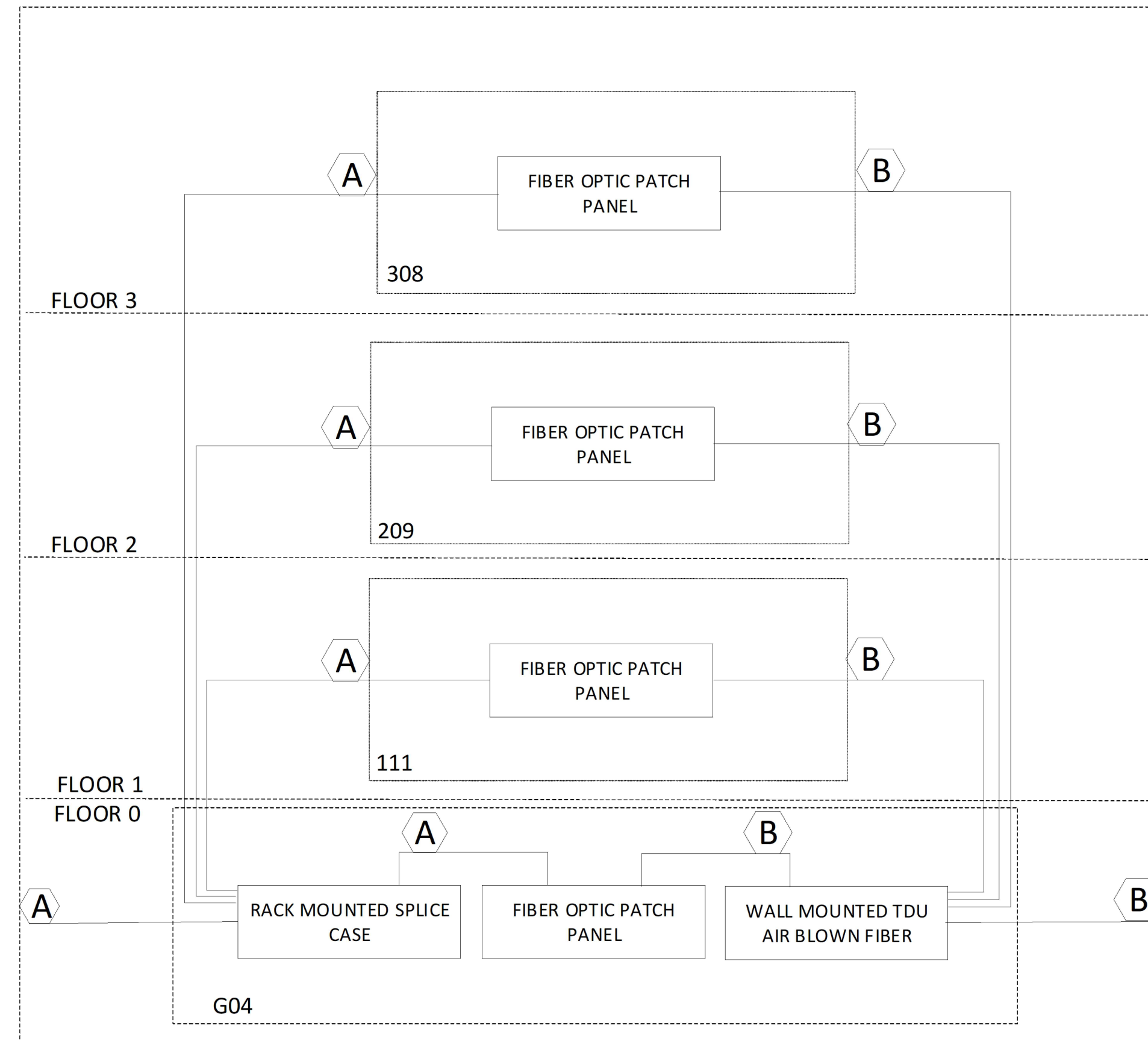
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## SIDE-A TOPOLOGY

ALL EXISTING SIDE-A OS1 OPTICAL FIBER SHALL BE REPLACED WITH INDOOR/OUTDOOR (TO THE BUILDING) AND RISER-RATED (PLENUM AS REQUIRED) MINIMUM 12-STRAND OS2 FIBER, ALONG THE EXISTING PATHWAYS IN A MANNER THAT CREATES A POINT-TO-POINT CONNECTION FROM THE BUILDING 1 MCR (NEW EQUIPMENT RACK) TO EACH CAMPUS BUILDING TR (TELECOMMUNICATION ROOM). NO PART OF THIS NEW NETWORK SHALL BE CROSS CONNECTED. THE PATHWAY FOR THE RISER CABLES TO THE TRS SHALL NOT BE THE SAME AS THE PATHWAY OF THE REDUNDANT SIDE-B FIBER NETWORK. SEPARATION SHALL BE MAINTAINED UNTIL THE FIBER TERMINATES ON THE EQUIPMENT RACKS WITHIN THE TRS. THE MEANS AND METHOD OF THIS DISCRETE PATHWAY SHALL BE PLACED ON THE CONTRACTOR. AS MUCH INFORMATION ABOUT THE EXISTING/LEGACY SIDE-A PATHWAYS THAT COULD BE GLEANED ARE PART OF THIS DESIGN PACKAGE. WHERE PATHWAYS TO BUILDINGS COULD NOT BE CONFIRMED, KEY NOTES WERE USED TO INDICATE THIS LACK OF KNOWLEDGE ON THE DRAWINGS.

TO CREATE THIS POINT-TO-POINT TOPOLOGY, HIGH-STRAND COUNT FIBERS SHALL BE PLACED FROM THE MCR (BUILDING 1) TO THE DISCRETE BUILDING TRS AS INDICATED ON THE DRAWINGS/SCHEDULES. WITHIN THIS FIRST TR, THE FIBERS SHALL BE SPLICED WITHIN A SHELF ON THE EQUIPMENT RACK. ANY FIBERS REQUIRED FOR THAT TR SHALL BE TERMINATED THERE. TO CONNECT THE 'NEXT' TR WITHIN THIS SAME BUILDING, SPLICE FROM THIS RACK-MOUNTED CASE ONTO A RISER-RATED (PLENUM AS REQUIRED) AND RUN THE BUNDLE (QUANTITY PER DRAWINGS AND SCHEDULES) TO THAT NEXT TR. IN THIS MANNER, EACH TR SHALL BE AN UNBROKEN POINT-TO-POINT CONNECTION TO THE MCR. EXTRA STRANDS SHALL BE SPOOLED WITHIN THE SPLICE CASE FOR FUTURE USE (DARK FIBER). THESE EXTRA STRANDS WERE DESIGNED INTO THE PROJECT TO ALLOW THE VA TO SPLICE THEM ANYWHERE WITHIN THE BUILDING SHOULD FUTURE REQUIREMENTS ARISE. NO BUILDING SHALL CONNECT TO OTHER BUILDINGS. NO HIERARCHICAL STAR TOPOLOGIES ARE ALLOWED, AND NO CROSS CONNECTS WILL BE PERMITTED. SEE EXAMPLE, THIS SHEET.



## SIDE-B TOPOLOGY

THE SIDE-B NEW REDUNDANT FIBER PLANT WILL USE AN AIR BLOWN FIBER METHOD. FROM BUILDING 56, EMPTY CABLE TUBES WILL BE PLACED IN UNDERGROUND SCHEDULE-40 CONCRETE ENCASED CONDUITS, PER DRAWINGS AND SCHEDULES, TO EACH DISCRETE BUILDING TR. ONCE THESE TUBES ARE PLACED, A MINIMUM OF 12 STRANDS OF AIR BLOWN OS2 FIBER SHALL BE BLOWN FROM BUILDING 56 TO THE TRS.

TO CREATE THIS POINT-TO-POINT TOPOLOGY, HIGH-STRAND COUNT FIBERS SHALL BE PLACED FROM BUILDING 56 TO THE DISCRETE BUILDING TUBE DISTRIBUTION UNITS (TDUs) (NEMA-1 ENCLOSURES) AS INDICATED ON THE DRAWINGS/SCHEDULES. WITHIN THESE TDUs, THE FIBERS SHALL BE SPLICED WITHIN ON TRAYS MOUNTED IN SPLICE CASES, WHICH ARE INSTALLED WITHIN THE TDUs. ANY FIBERS REQUIRED FOR THAT TR SHALL BE TERMINATED THERE. TO CONNECT THE 'NEXT' TR WITHIN THIS SAME BUILDING, SPLICE FROM THIS TDU AND PLACE RISER-RATED (PLENUM AS REQUIRED) FIBER INTO THE TUBE AND BLOW THE FIBER TO THE NEXT TR. IN THIS MANNER, EACH TR SHALL BE AN UNBROKEN POINT-TO-POINT CONNECTION TO BUILDING 56. EXTRA STRANDS SHALL BE COILED WITHIN THE TDU FOR FUTURE USE (DARK FIBER). EXTRA TUBES TO THE HAND HOLES, THE TDUs, AND THE TRS HAS BEEN DESIGNED INTO THE PROJECT TO LESSEN THE COST OF ADDING ADDITIONAL/UPGRADED FIBER IN THE FUTURE. NO BUILDING SHALL CONNECT TO OTHER BUILDINGS. NO HIERARCHICAL STAR TOPOLOGIES AND NO CROSS CONNECTS SHALL BE PERMITTED. SEE EXAMPLE, THIS SHEET.

## FUTURE TOPOLOGIES / OPPORTUNITIES

THE DESIGN PLACES AN ADDITIONAL 288 STRANDS OF OS2 FIBER BETWEEN BUILDING 1 MCR AND BUILDING 56. THIS FIBER IS INTENDED TO BE USED AS A BRIDGE FOR MOVING THE CORE-B, THEN CORE-A FROM BUILDING 1 TO BUILDING 56 (NOT IN THIS PROJECT SCOPE). ULTIMATELY, ALL OF THE NEW SIDE-A OS2 FIBER CONNECTING ALL CAMPUS BUILDING TRS TO BUILDING 1 COULD BE SPLICED ONTO THIS 288 STRAND FIBER, THEREBY ELIMINATING THE NEED TO RUN NEW FIBER IN THE FUTURE, AND BY SPLICING, REMOVES THE NEED FOR CROSS-CONNECT.

[illegible]



[illegible]

SYMBOLS				ABBREVIATIONS			
	EXTERIOR ELEVATION		WALL TAG		AREA OF WORK / AREA SHOWN		DOUBLE
	INTERIOR ELEVATION		FLOOR TAG		CONSTRUCTION ZONE, (- -) PRESSURE		DIRECT CURRENT
	BUILDING SECTION FLAG		ROOF TAG		ANTE ROOM, (-) PRESSURE		DESIGN DEVELOPMENT
	WALL SECTION FLAG		DOOR TAG		TEMPORARY ICRA BARRIER		DEMOLISH(ION)
	CALLOUT FLAG		WINDOW TAG		TEMPORARY ICRA DOOR		DEPARTMENT
	VERTICAL GRID LINE		SPECIALTY EQUIPMENT TAG		PATH OF TRAVEL		DESIGN GUIDE
	HORIZONTAL GRID LINE		SIGNAGE TAG		EMERGENCY EGRESS PATHWAY		DIA
	TRUE NORTH ARROW		SIGNAGE KEY NOTE (AW SHEETS ONLY)		SEISMIC JOINT		DIM
	PROJECT NORTH ARROW (TRUE NORTH DASHED)		SIGNAGE MATERIAL TAG (AW SHEETS ONLY)		BATT INSULATION		DWN
	ELEVATION MARKER		EXISTING TO REMAIN		RIGID INSULATION		DR
	KEY NOTE		TO DEMOLISH		GYPSUM BOARD, TYPE X		DTL
	ROOM TAG (SF OPTIONAL)		HIDDEN ABOVE OR BELOW		ACOUSTICAL CEILING TILE, 2' x 2'		DWG
	CEILING HEIGHT TAG		EXISTING DOOR TO REMAIN		CONCRETE		
			EXISTING DOOR TO DEMOLISH		STEEL		
			NEW DOOR		PLYWOOD, FIRE RATED		
			SMOKE ZONE		EARTH		
			1 HR FIRE RATED WALL		SUPPLY GRILLE PER MECHANICAL (SIZE & PROPORTIONS MAY VARY)		
			2 HR FIRE RATED WALL		RETURN GRILLE PER MECHANICAL (SIZE & PROPORTIONS MAY VARY)		
			SMOKE RATED WALL		LIGHTING PER ELECTRICAL (SIZE & PROPORTIONS MAY VARY)		
			SMOKE & 1 HR FIRE RATED WALL		FIRE EXTINGUISHER CABINET		
			PATIENT NON-SLEEPING SUITE				

GENERAL NOTES	
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APPLICABLE PUBLICATIONS	APPLICABLE PUBLICATIONS	GENERAL NOTES
<p>AS AN AGENCY OF THE FEDERAL GOVERNMENT, THE VA IS NOT SUBJECT TO LOCAL IMPOSITIONS OF CODE ENFORCEMENT PROCEDURES ( DRAWING REVIEWS, BUILDING PERMITS, INSPECTIONS, FEES, ETC). THE VA SHALL FUNCTION AS THE AUTHORITY HAVING JURISDICTION (AHJ).</p> <p>VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL).</p> <p>INTERNATIONAL BUILDING CODE (IBC) 2018.</p> <p>INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2018.</p> <p>NATIONAL FIRE PROTECTION AGENCY (NFPA) 101 LIFE SAFETY CODE. NFPA 101 TAKES PRECEDENCE OVER IBC.</p> <p>NFPA NATIONAL FIRE CODES, WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900.</p> <p>OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.</p> <p>VA SEISMIC DESIGN REQUIREMENTS, H-18-8.</p> <p>NATIONAL ELECTRICAL CODE (NEC).</p> <p>INTERNATIONAL PLUMBING CODE (IPC).</p> <p>SAFETY CODE FOR ELEVATORS AND ESCALATORS, AMERICAL SOCIETY OF MECHANICAL ENGINEERS (ASME) A 17.1.</p> <p>ASME BOILER AND PRESSURE VESSEL CODE</p> <p>ASME CODE FOR PRESSURE PIPING</p> <p>ARCHITECTURAL BARRIER ACT ACCESSIBILITY STANDARDS (ABAAS), INCLUDING VA SUPPLEMENT BARRIER FREE DESIGN GUIDE (PG-18-3)</p> <p>BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)</p> <p>MANUAL OF STEEL CONSTRUCTION , LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)</p> <p>ENERGY POLICY ACT OF 2005 (EPACT)</p> <p>DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS. 10 CFR PARTS 433,434 AND 435.</p>	<p>FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)</p> <p>EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT.</p> <p>THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS. STATED IN THE GENERAL REQUIREMENTS SECTION 01 01 0 OF THE VA MASTER CONSTRUCTION SPECIFICATION.</p> <p>VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1 - 2004.</p> <p>SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15 - 2007.</p> <p>VAMC APPROVED HARDWARE LOCKING STANDARDS</p> <p>AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)</p> <p>AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)</p> <p>FEDERAL COMMUNICATIONS COMMISSION (FCC), ALL REGULATIONS, PROCEDURES AND STANDARDS FOR TWO-WAY RADIO EQUIPMENT, SYSTEMS AND OPERATION</p> <p>ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)</p> <p>INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)</p> <p>INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO), STANDARDS FOR PROTOCOLS AND INTERFACES THAT INCLUDE OPEN SYSTEM INTERCONNECTIONS (OSI)</p> <p>JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JACHO), ENVIRONMENT OF CARE GUIDELINES AND STANDARDS</p> <p>FACILITIES GUIDELINES INSTITUTE (FGI): 2010 , OR MOST CURRENT ISSUE, GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES</p> <p>THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS(NSPE) RECENT ADDITIONS TO THEIR PROFESSIONAL CODES OF ETHICS ENCOURAGING "ENVIRONMENTALLY RESPONSIBLE DESIGN"</p>	<div><div><div>1.</div><div>MAINTAIN A SAFE, CLEAN CONSTRUCTION ZONE AT ALL TIMES.</div></div><div><div>2.</div><div>DO NOT SCALE DRAWINGS.</div></div><div><div>3.</div><div>DIMENSIONS ARE NOT ADJUSTABLE UNLESS NOTED WITH A +/- SYMBOL. ONLY NORMAL INDUSTRY STANDARD TOLERANCES ARE ACCEPTABLE DEVIATIONS FROM DIMENSIONS INDICATED.</div></div><div><div>4.</div><div>ALL DIMENSIONS NOTED AS CLEAR SHALL MAINTAIN THE FULL SPACE INDICATED WITHOUT ENCROACHMENTS.</div></div><div><div>5.</div><div>FURNISH ALL MATERIALS &amp; PRODUCTS TO COMPLY WITH THE CONTRACT DOCUMENTS.</div></div><div><div>6.</div><div>ALL VERTICAL HEIGHTS INDICATED ARE FROM THE FINISH FLOOR ELEVATION, UON.</div></div><div><div>7.</div><div>ANY AND ALL WALL MOUNTED EQUIPMENT SHALL HAVE BLOCKING IN WALL BEHIND, THIS INCLUDES BACKING FOR WALL MOUNTED DOOR STOPS. 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