

NC ENGINEERING LICENSE # C-1028



**UNC CHARLOTTE**  
SCO ID #: 13-10724-01A  
CODE: 41326  
ITEM: 307  
BID DOCUMENTS

**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
CAMPUS INFRASTRUCTURE DEVELOPMENT (CID)  
PHASE II - CAMPUS WI-FI  
BUILDINGS: CAMERON, COLVARD NORTH,  
FRETWELL, FRIDAY, KING, & SMITH**

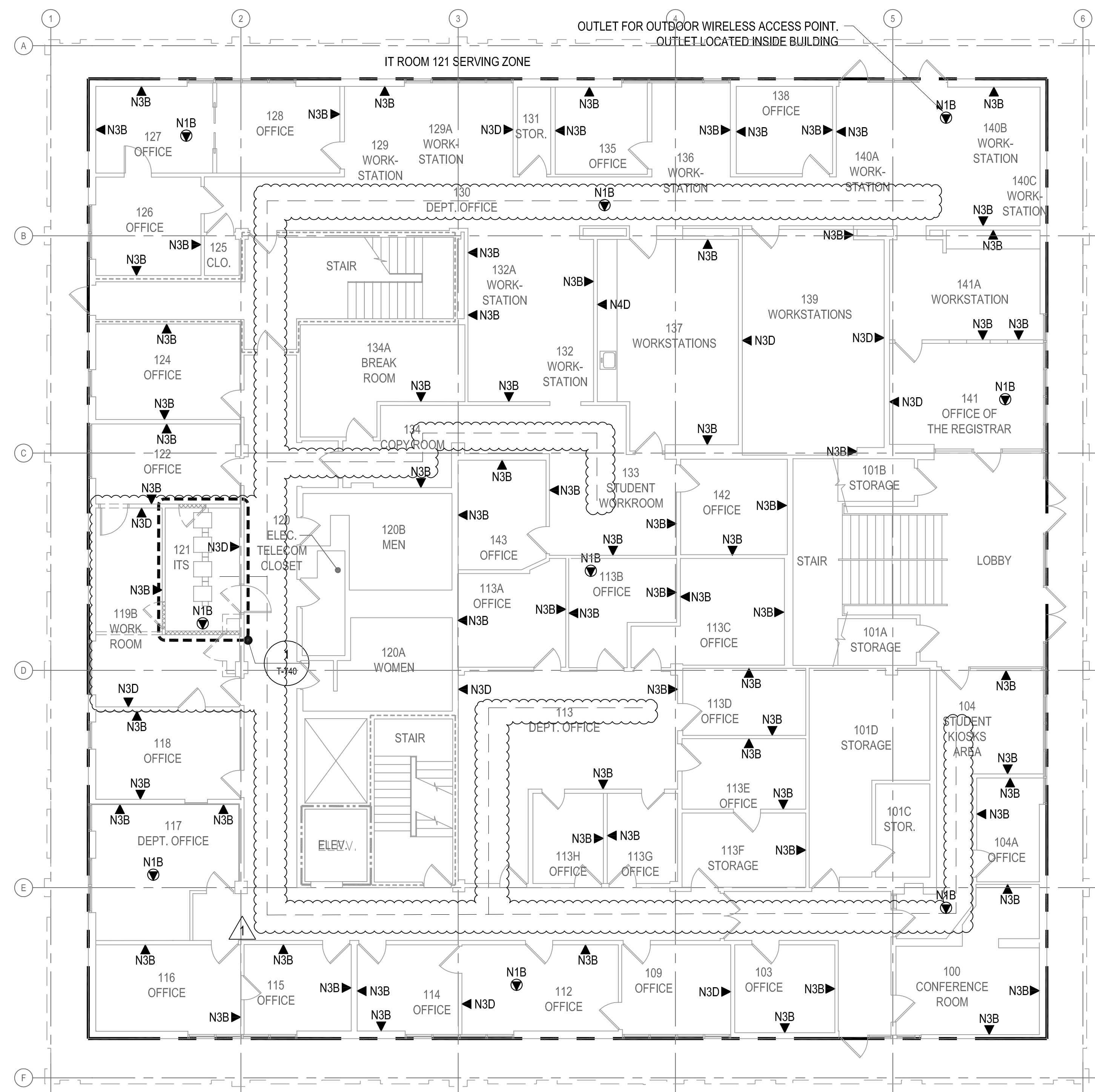
CN NO: 5462  
DATE: 3/31/2015  
DESIGN: PB  
DRAWN: PB  
REVIEW: PP  
REVISIONS  
No. Date Description By  
1 2015-04-23 BID ADDENDUM #2

**ALTERNATE #2  
KING  
BASEMENT & FIRST  
FLOOR  
TELECOMMUNICATIONS**

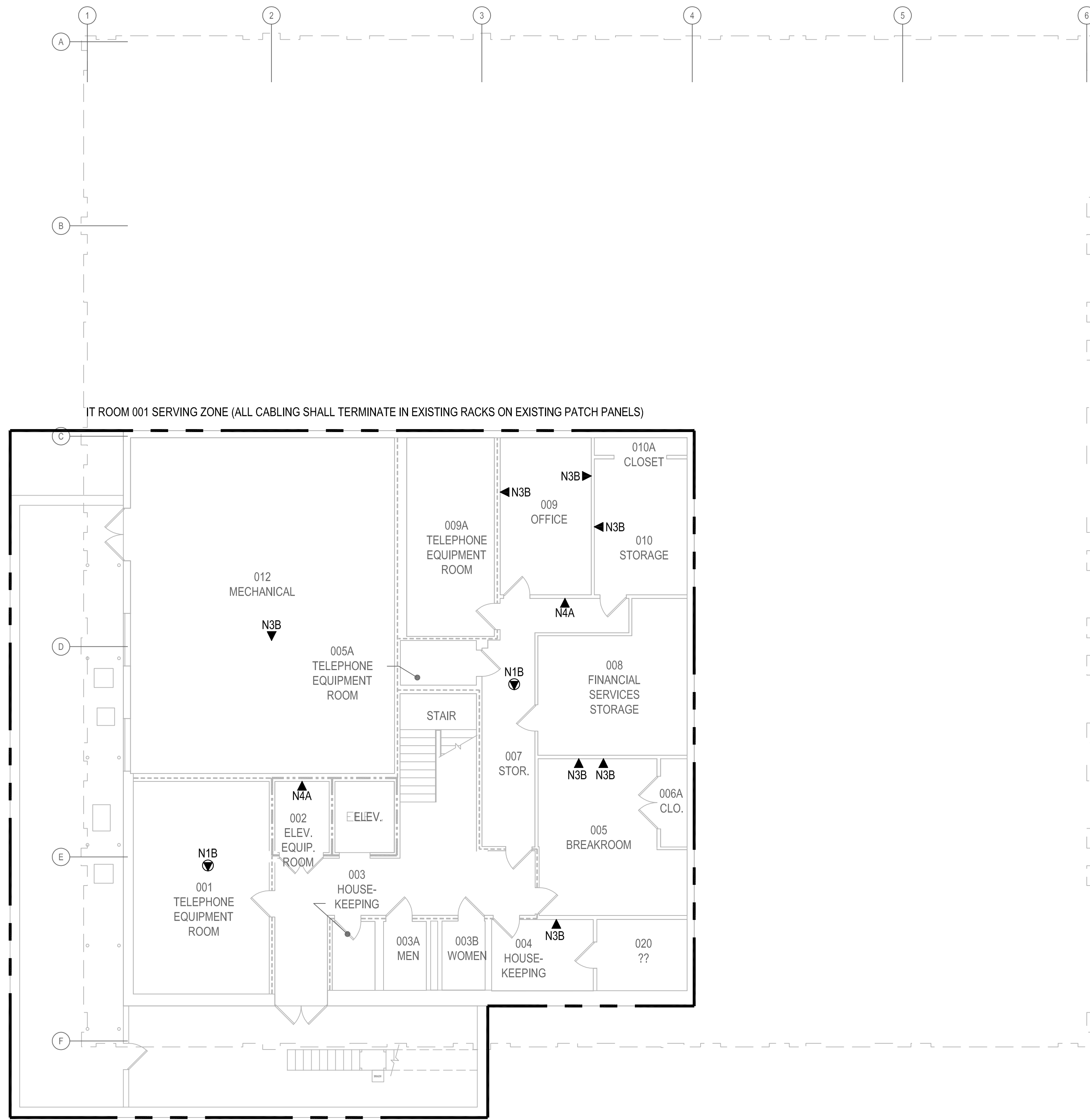
**T-501**

**WALL RATINGS LEGEND**  

 EXISTING 1-HOUR RATED FIRE PARTITION  
 EXISTING 2-HOUR RATED FIRE BARRIER  
 NEW 1-HOUR RATED PARTITION



TELECOMMUNICATIONS - KING - 1ST LEVEL  
SCALE: 1/8"=1'-0"



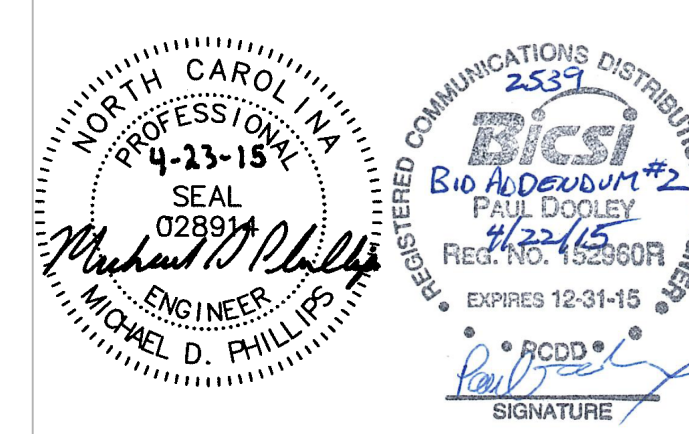
TELECOMMUNICATIONS - KING - BASEMENT LEVEL  
SCALE: 1/8"=1'-0"

E  
D  
C  
B  
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1 2 3 4 5 6



NC ENGINEERING LICENSE # C-1028



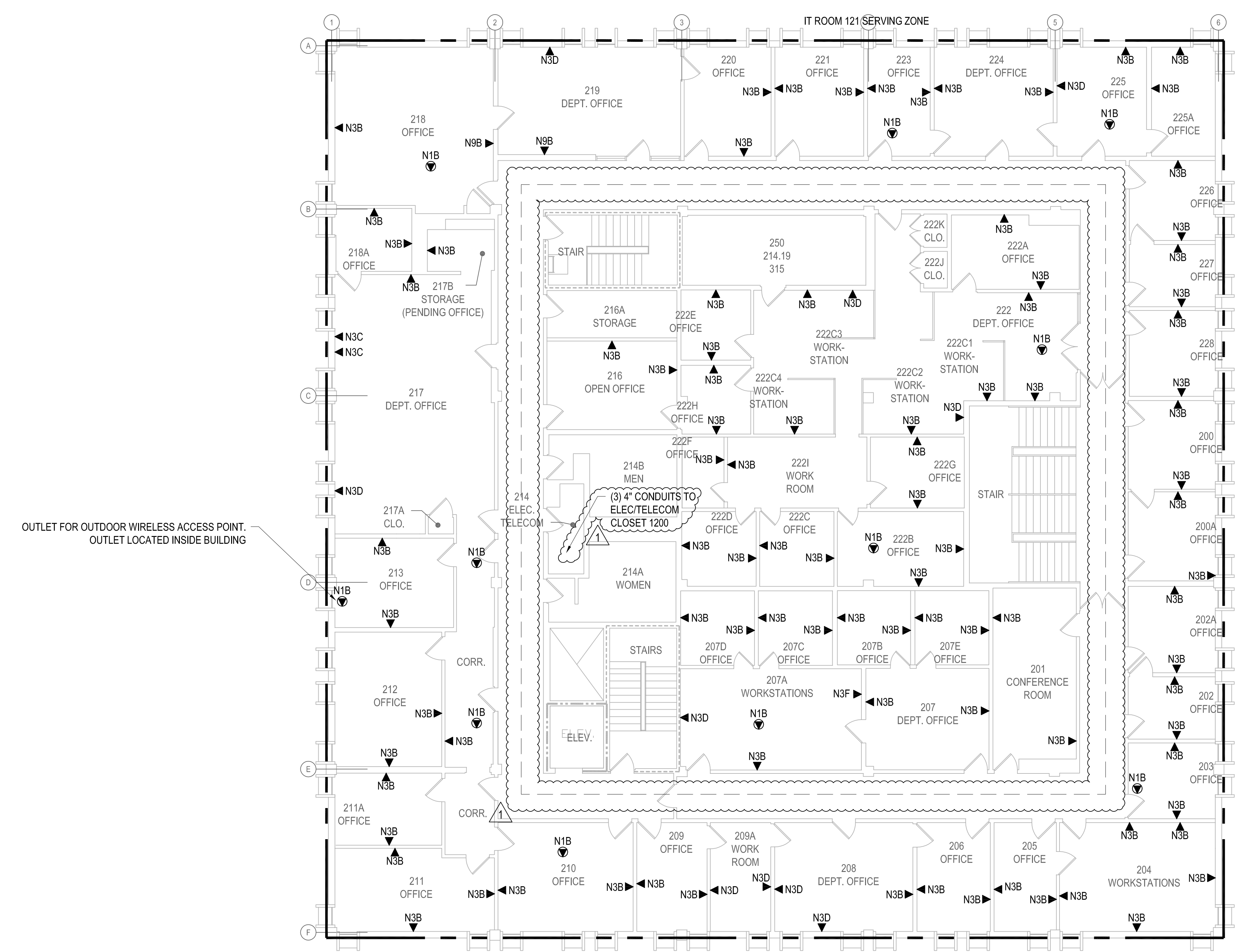
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ALTERNATE #2  
KING  
SECOND FLOOR  
TELECOMMUNICATIONS

**T-502**

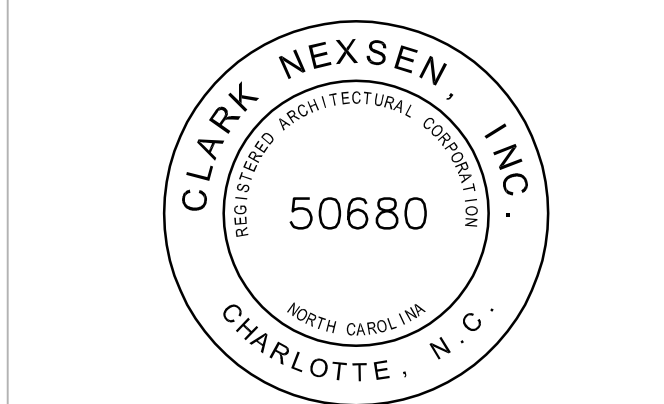


OUTLET FOR OUTDOOR WIRELESS ACCESS POINT.  
OUTLET LOCATED INSIDE BUILDING

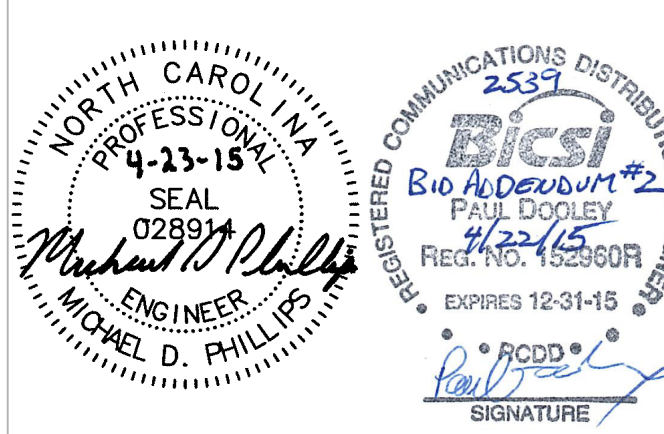
TELECOMMUNICATIONS - KING - 2ND LEVEL  
SCALE: 1/8"=1'-0"

**WALL RATINGS LEGEND**

	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION



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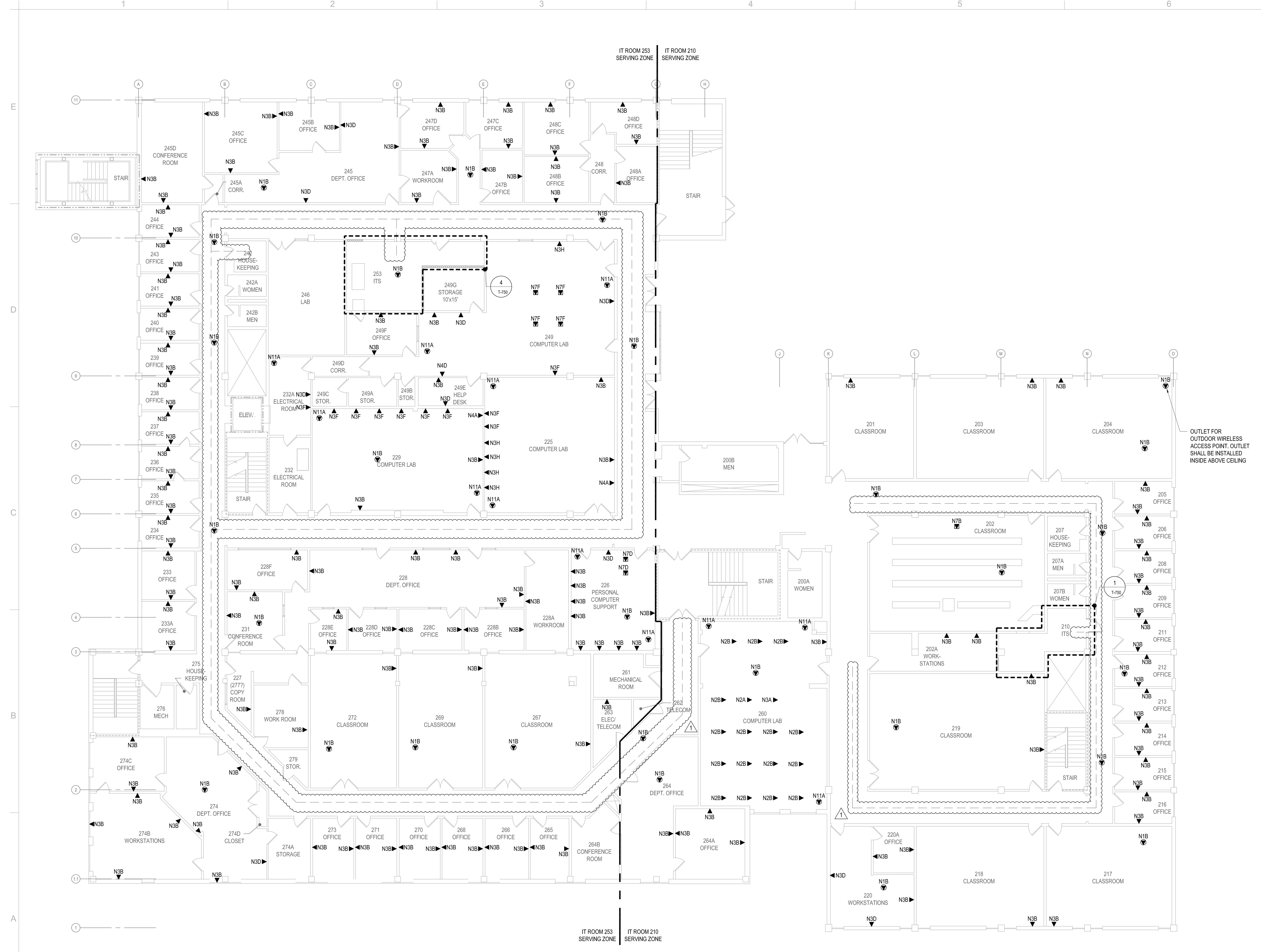
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REVIEW: PP

REVISIONS

No.	Date	Description	By
1	2015-04-23	BID ADDENDUM #2	

ALTERNATE #3  
SMITH  
SECOND FLOOR  
TELECOMMUNICATIONS

T-602



OUTLET FOR  
OUTDOOR WIRELESS  
ACCESS POINT. OUTLET  
SHALL BE INSTALLED  
INSIDE ABOVE CEILING

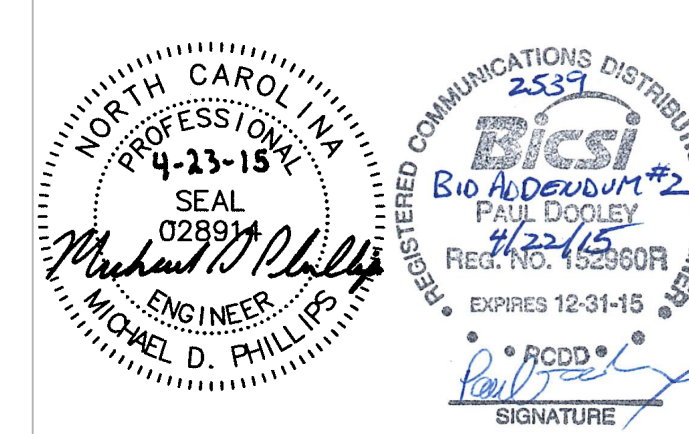
TELECOMMUNICATIONS - SMITH - 2ND LEVEL  
SCALE: 1/8"=1'-0"

WALL RATINGS LEGEND

	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION



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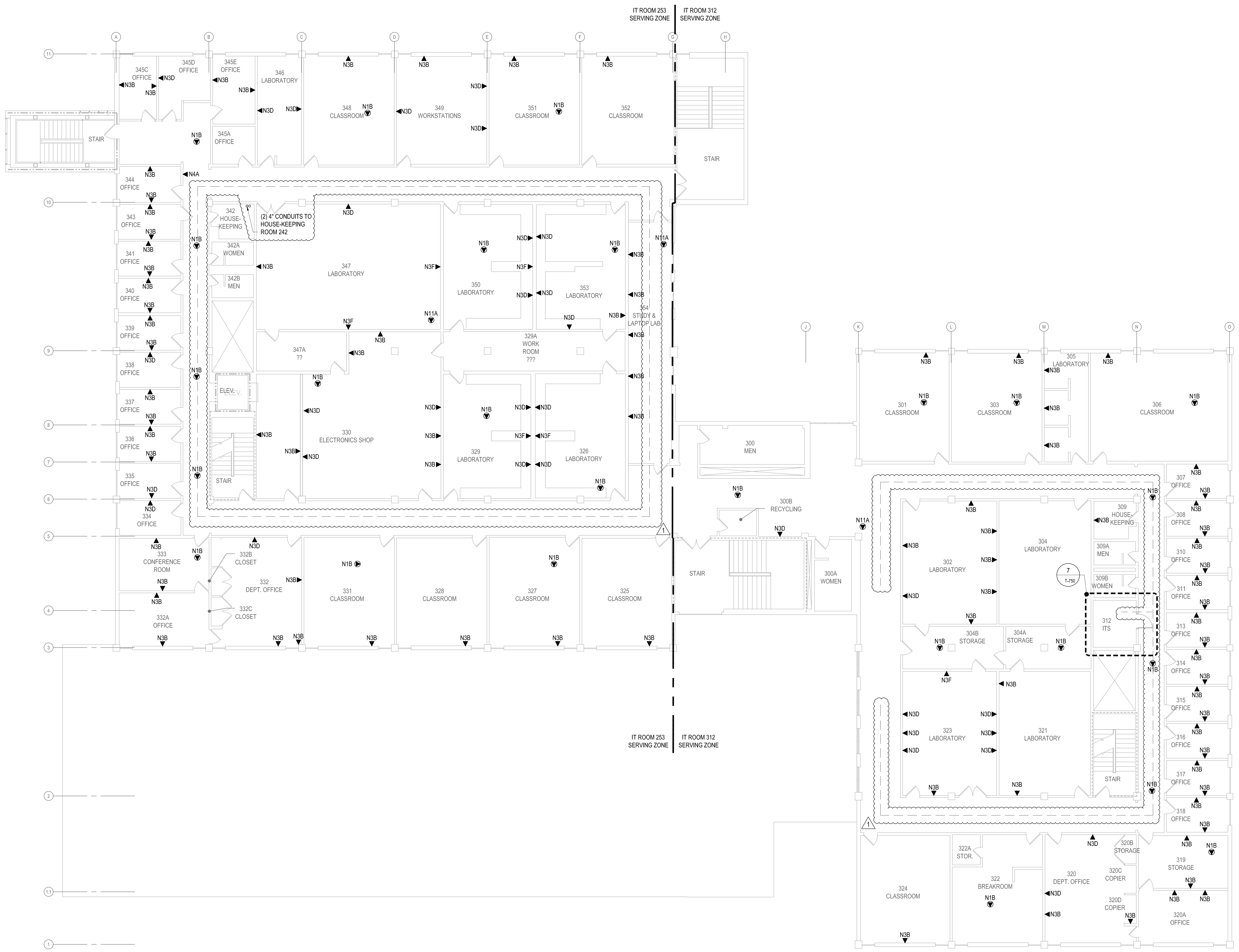
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1 2015-04-23 BID ADDENDUM #2

ALTERNATE #3  
SMITH  
THIRD FLOOR  
TELECOMMUNICATIONS

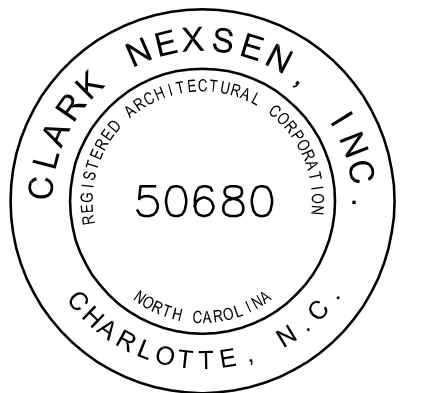
T-603



TELECOMMUNICATIONS - SMITH - 3RD LEVEL  
SCALE: 1/8"=1'-0"

WALL RATINGS LEGEND

	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION



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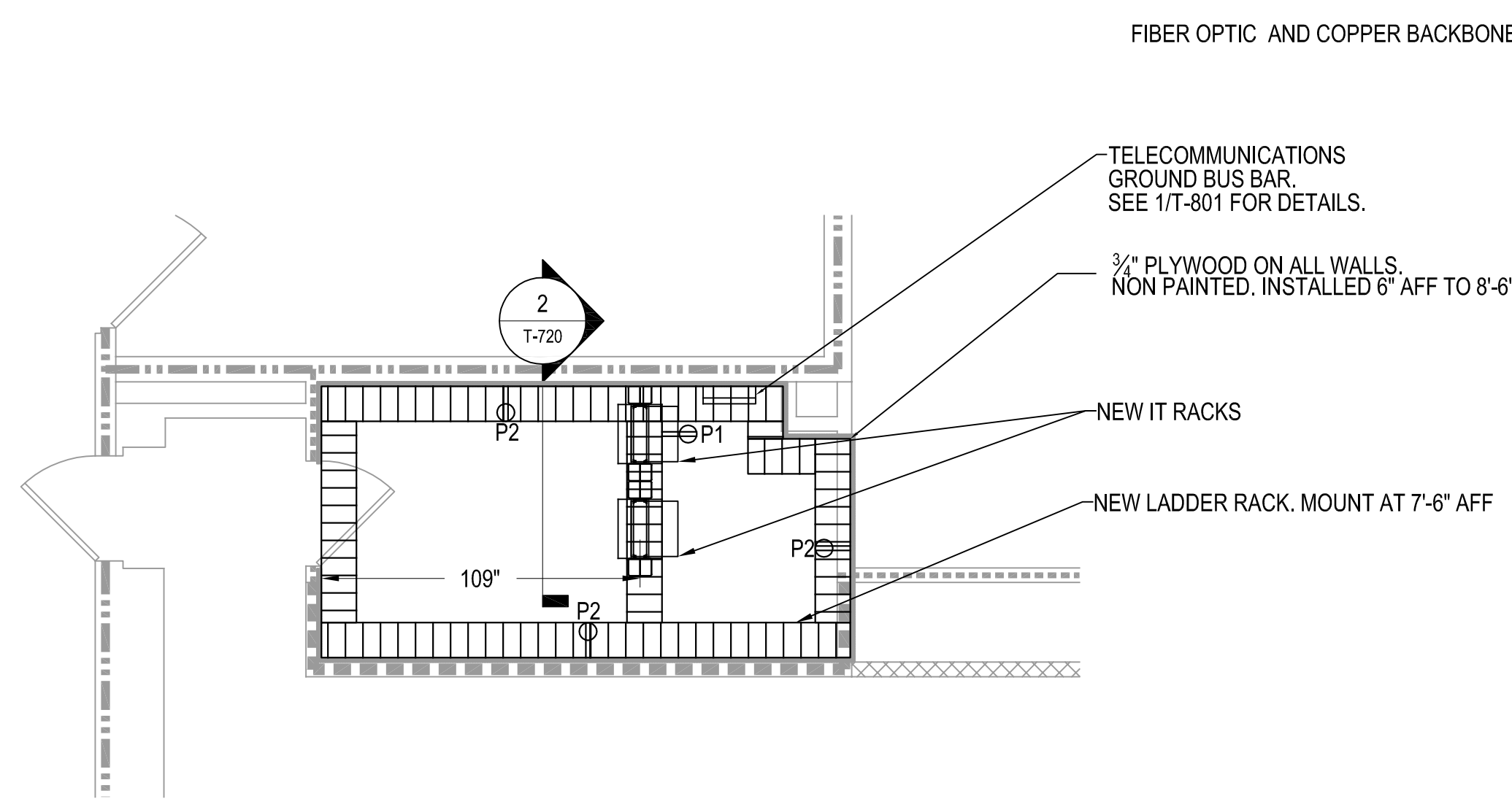
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DRAWN: PB  
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1 2015-04-23 BID ADDENDUM #2

FRETWELL  
ENLARGED  
TELECOMMUNICATIONS  
PLANS

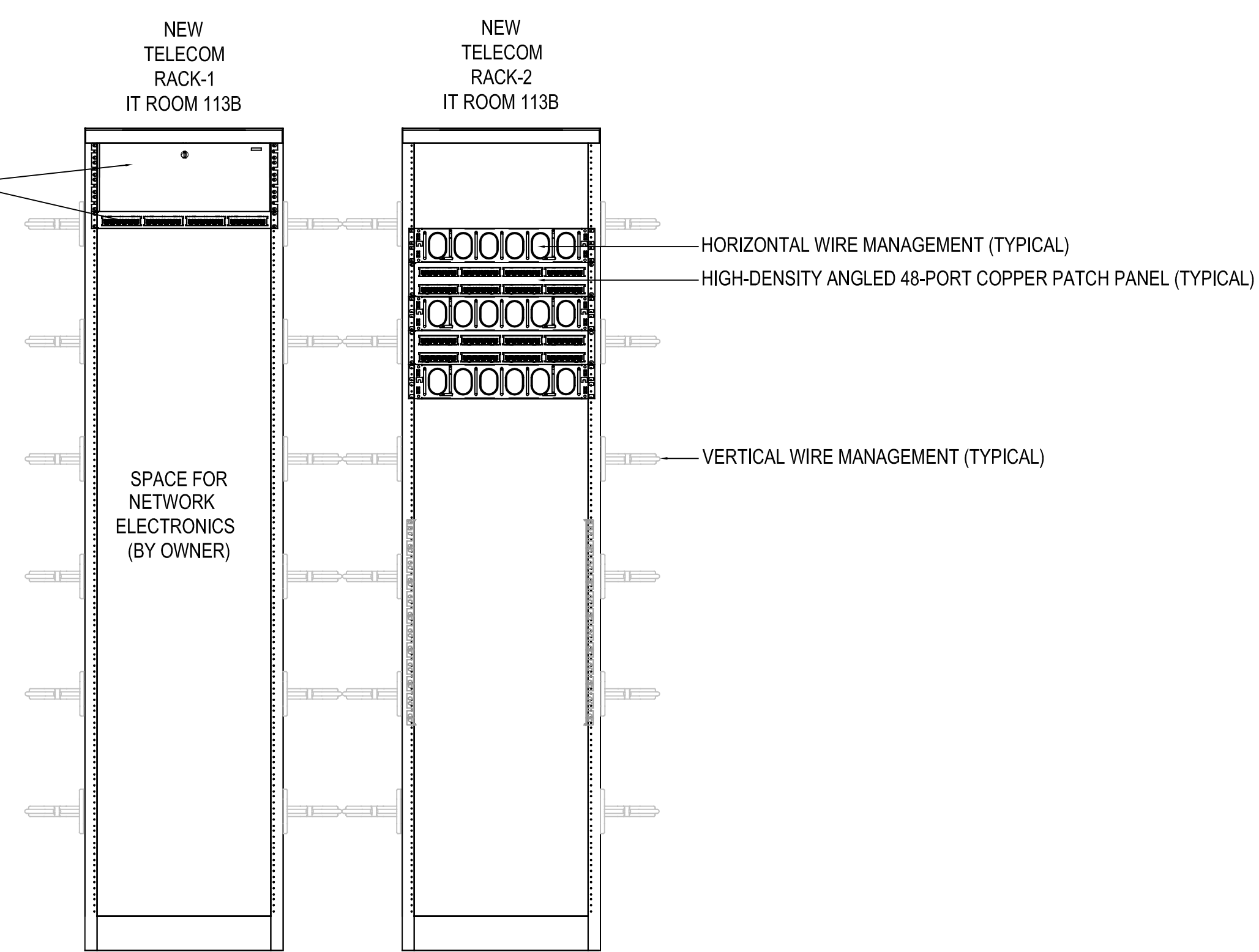
**T-720**

WALL RATINGS LEGEND

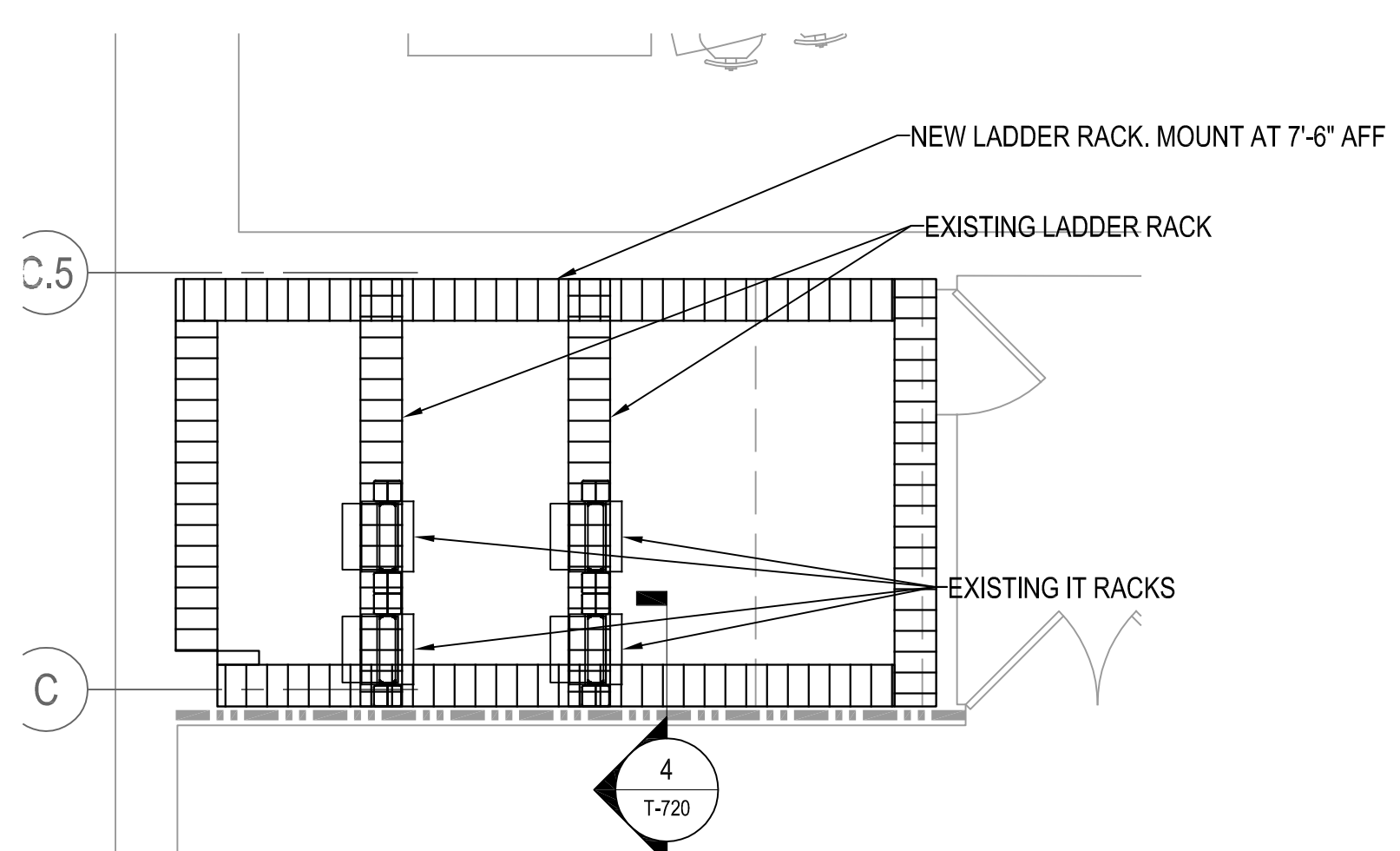
	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION



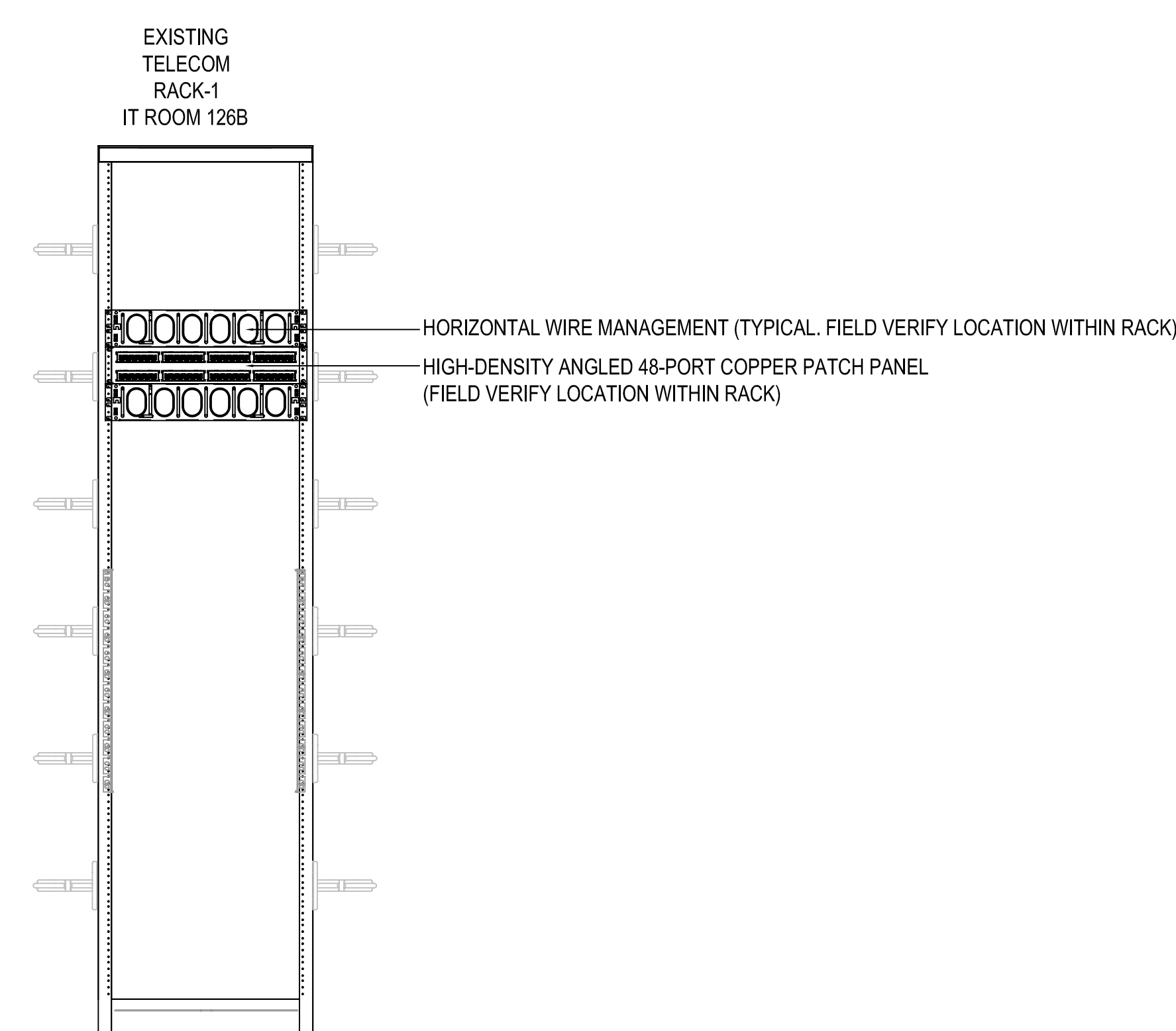
1 FRETWELL IT ROOM 113B  
T-720 SCALE: 1/4" = 1'-0"



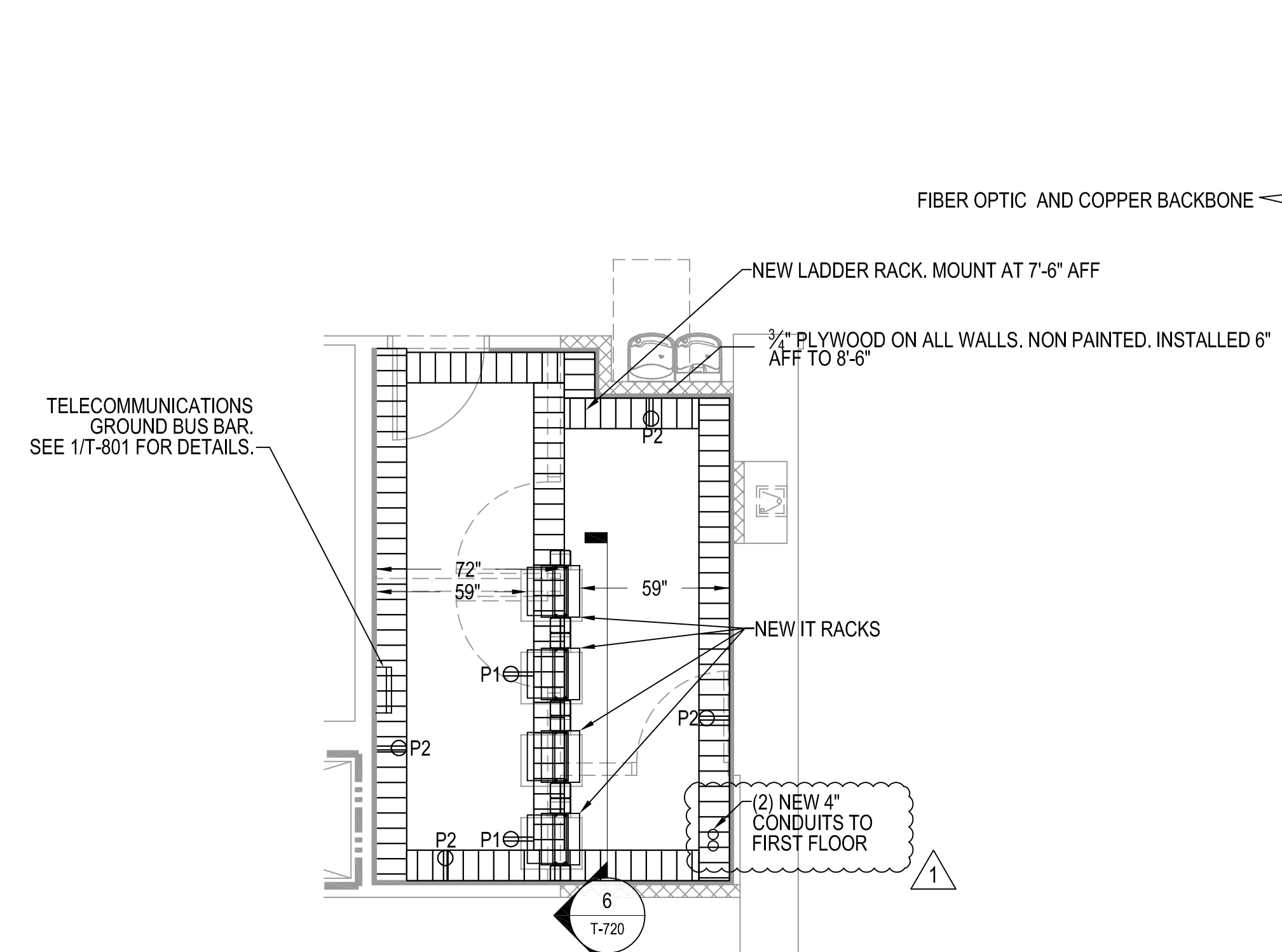
2 FRETWELL IT ROOM 113B RACK ELEVATION  
T-720 SCALE: NTS



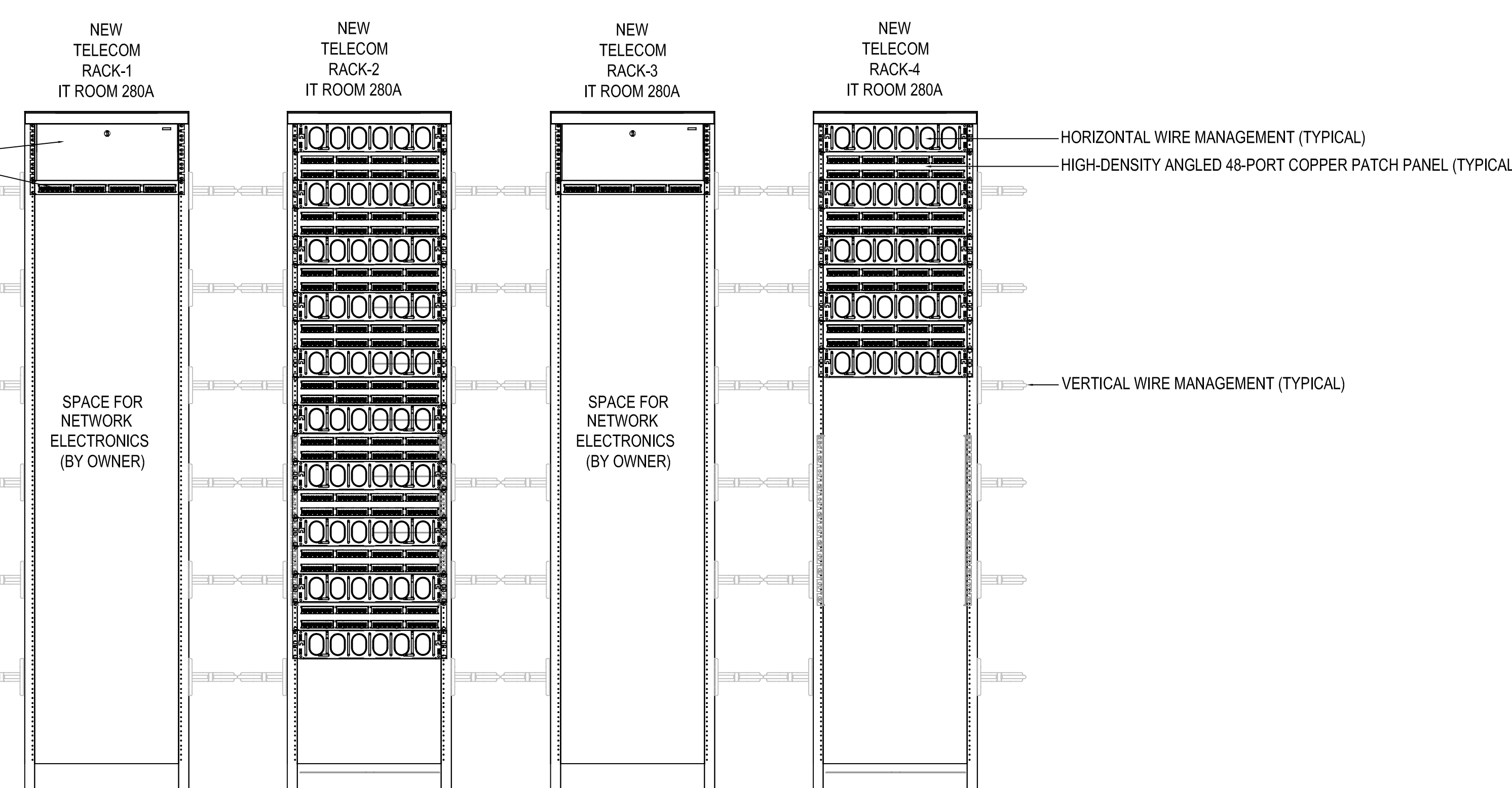
3 FRETWELL IT ROOM 126B  
T-720 SCALE: 1/4" = 1'-0"



4 FRETWELL IT ROOM 126B RACK ELEVATION  
T-720 SCALE: NTS



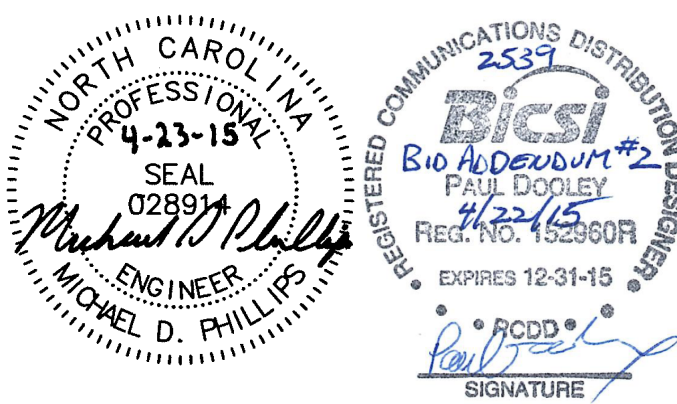
5 FRETWELL IT ROOM 280A  
T-720 SCALE: 1/4" = 1'-0"



6 FRETWELL IT ROOM 280A RACK ELEVATION  
T-720 SCALE: NTS



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FRETWELL  
ENLARGED  
TELECOMMUNICATIONS  
PLANS

**T-721**

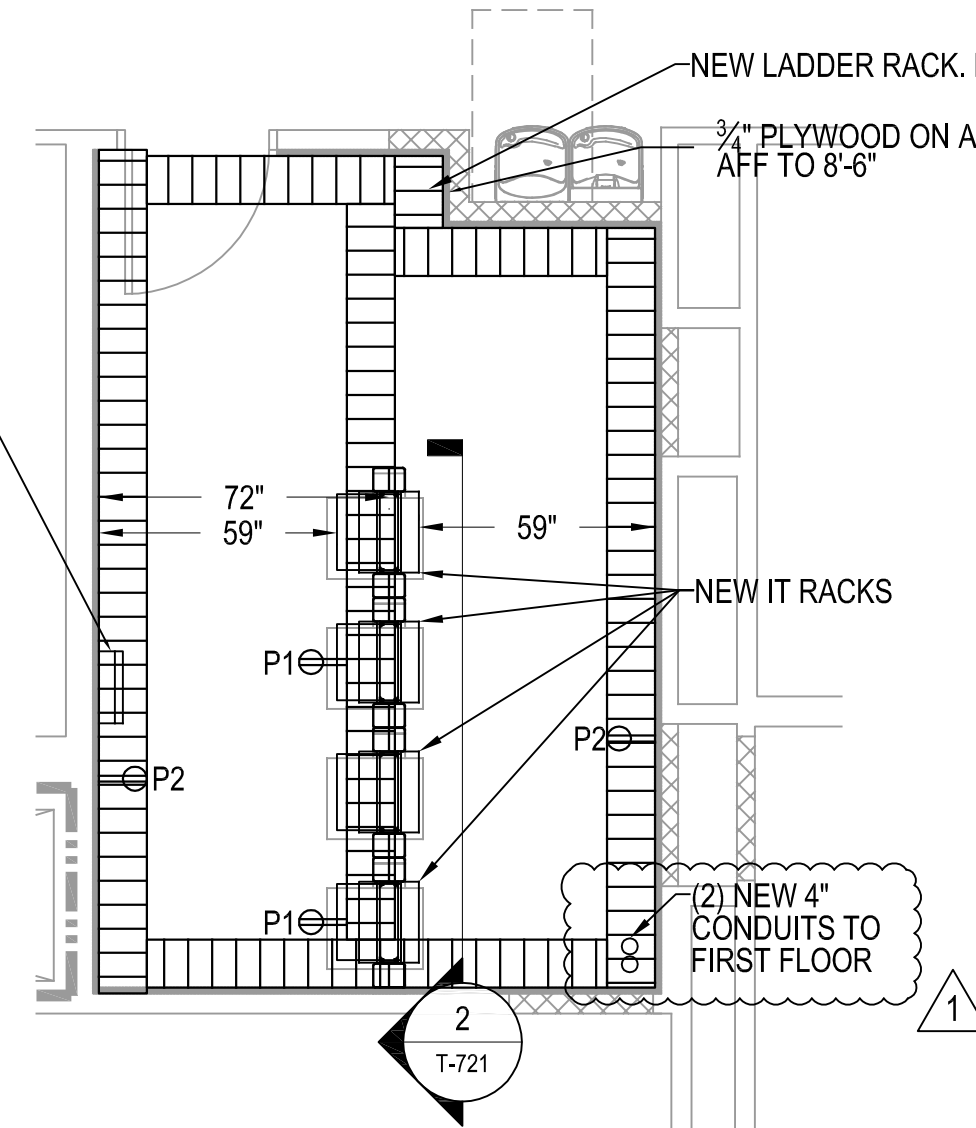
WALL RATINGS LEGEND

	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION

1 2 3 4 5 6

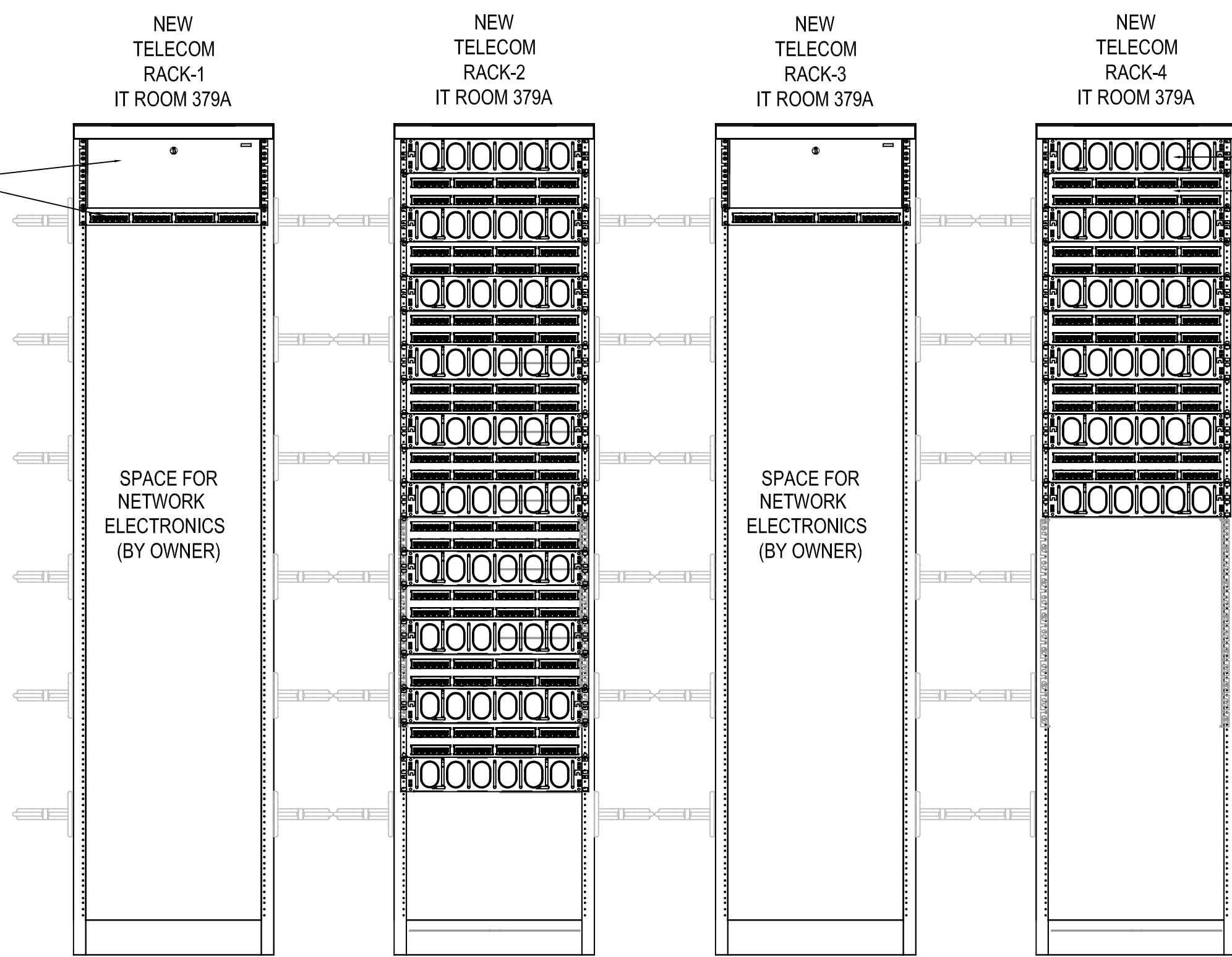
E  
D  
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TELECOMMUNICATIONS  
GROUND BUS BAR.  
SEE 1/T-801 FOR DETAILS.



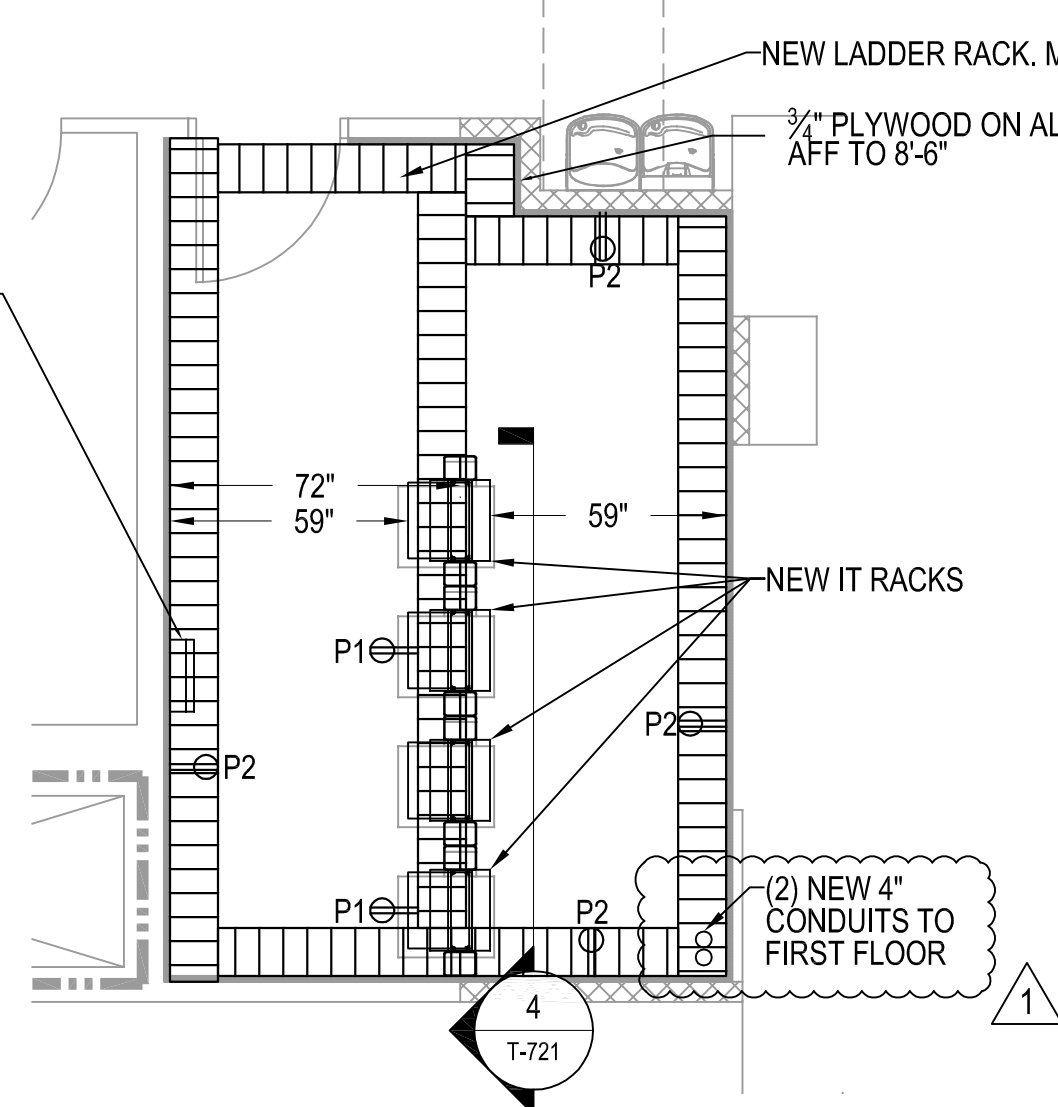
1 FRETWELL IT ROOM 379A  
SCALE: 1/4" = 1'-0"

FIBER OPTIC AND COPPER BACKBONE



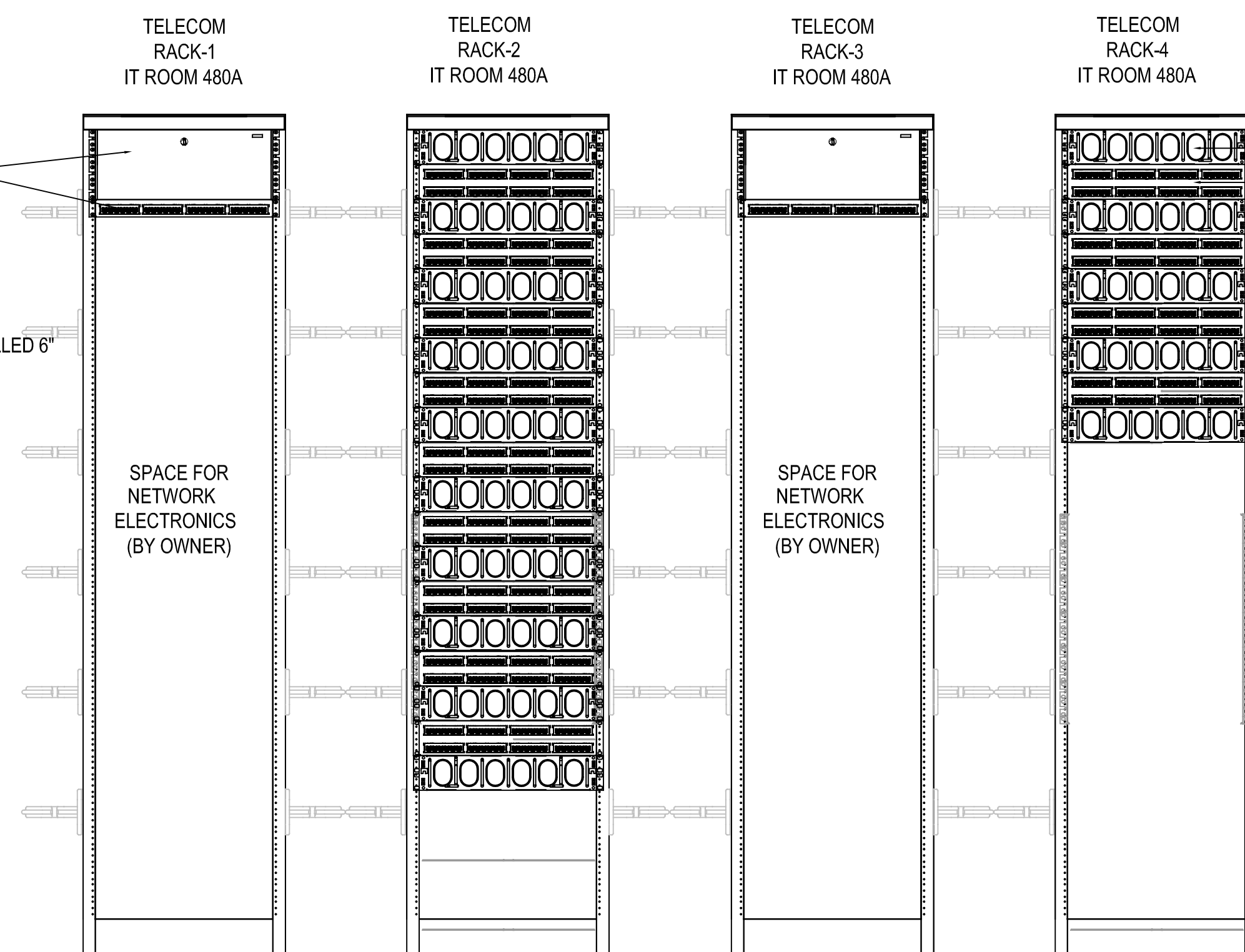
2 FRETWELL IT ROOM 379A RACK ELEVATION  
SCALE: NTS

TELECOMMUNICATIONS  
GROUND BUS BAR.  
SEE 1/T-801 FOR DETAILS.



3 FRETWELL IT ROOM 480A  
SCALE: 1/4" = 1'-0"

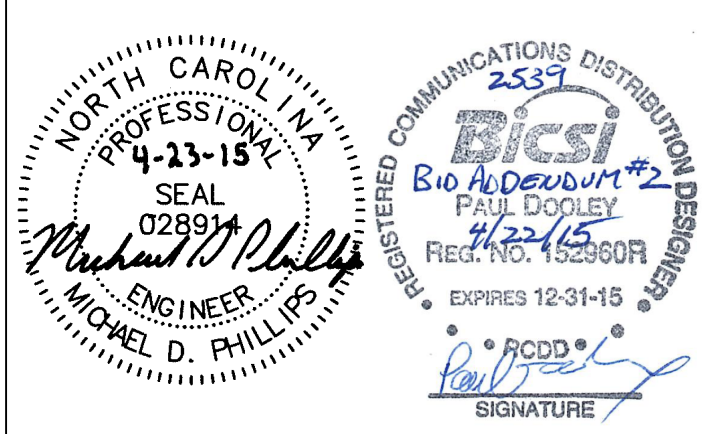
FIBER OPTIC AND COPPER BACKBONE



4 FRETWELL IT ROOM 480A RACK ELEVATION  
SCALE: NTS



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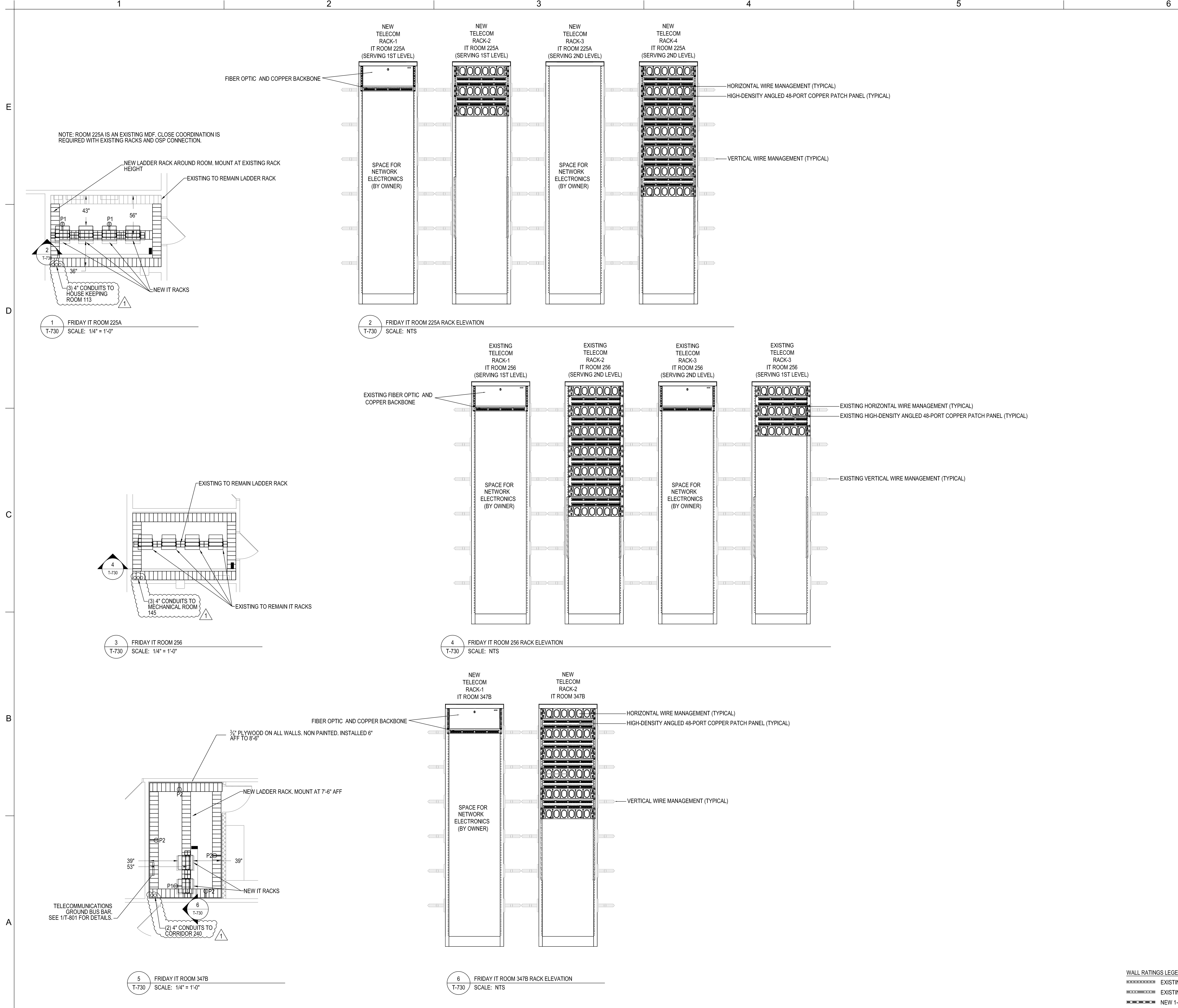
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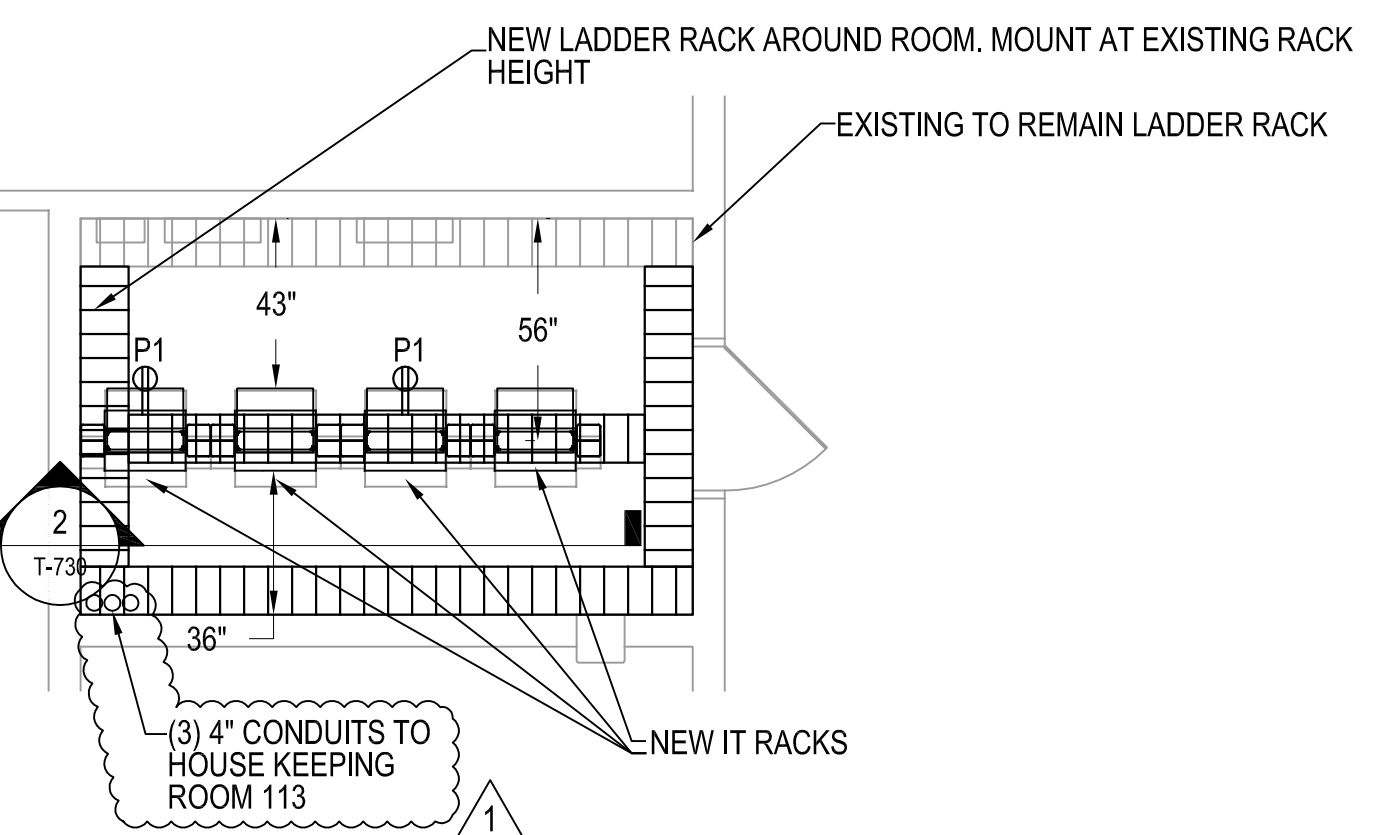
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FRIDAY  
ENLARGED  
TELECOMMUNICATIONS  
PLANS

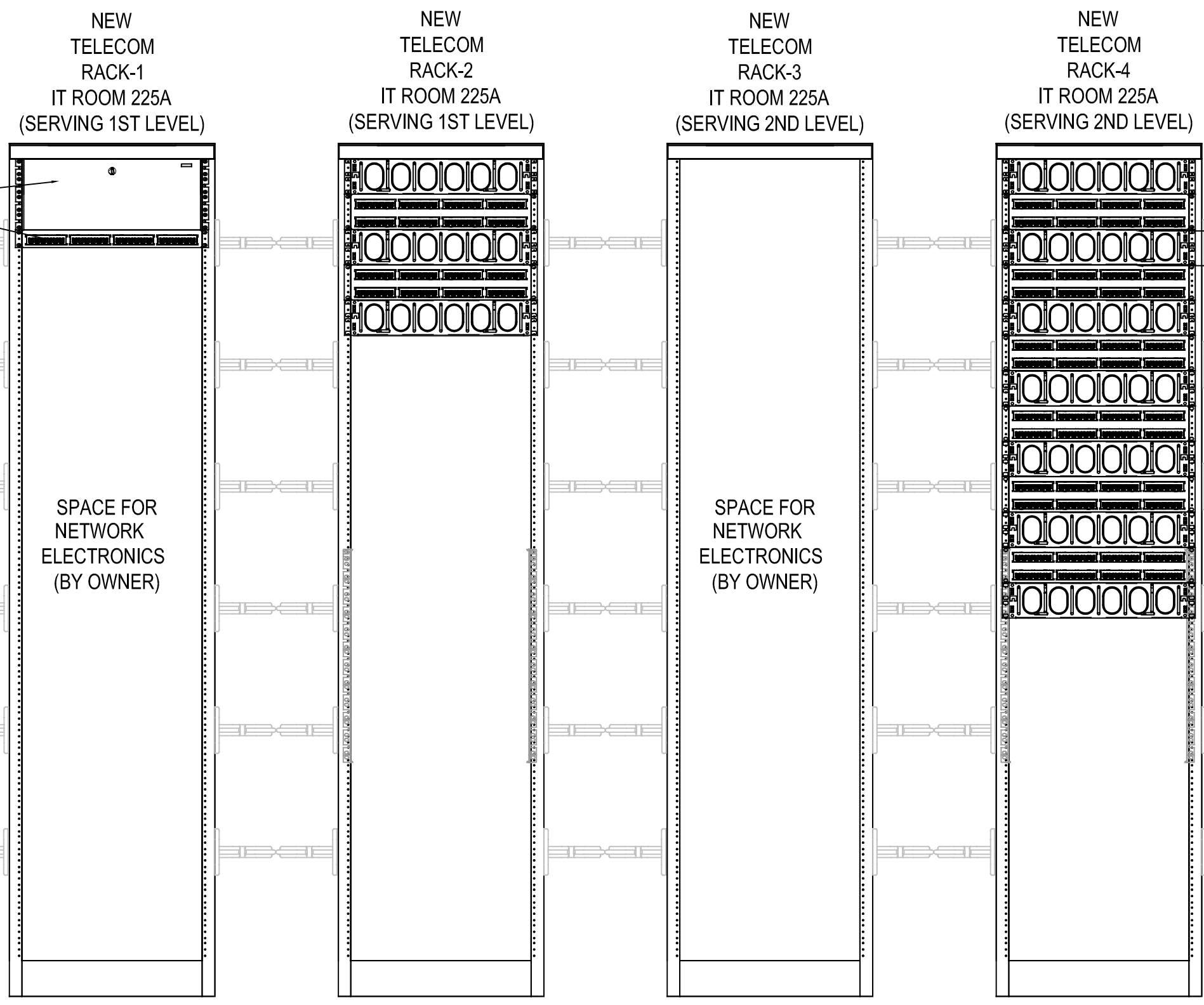
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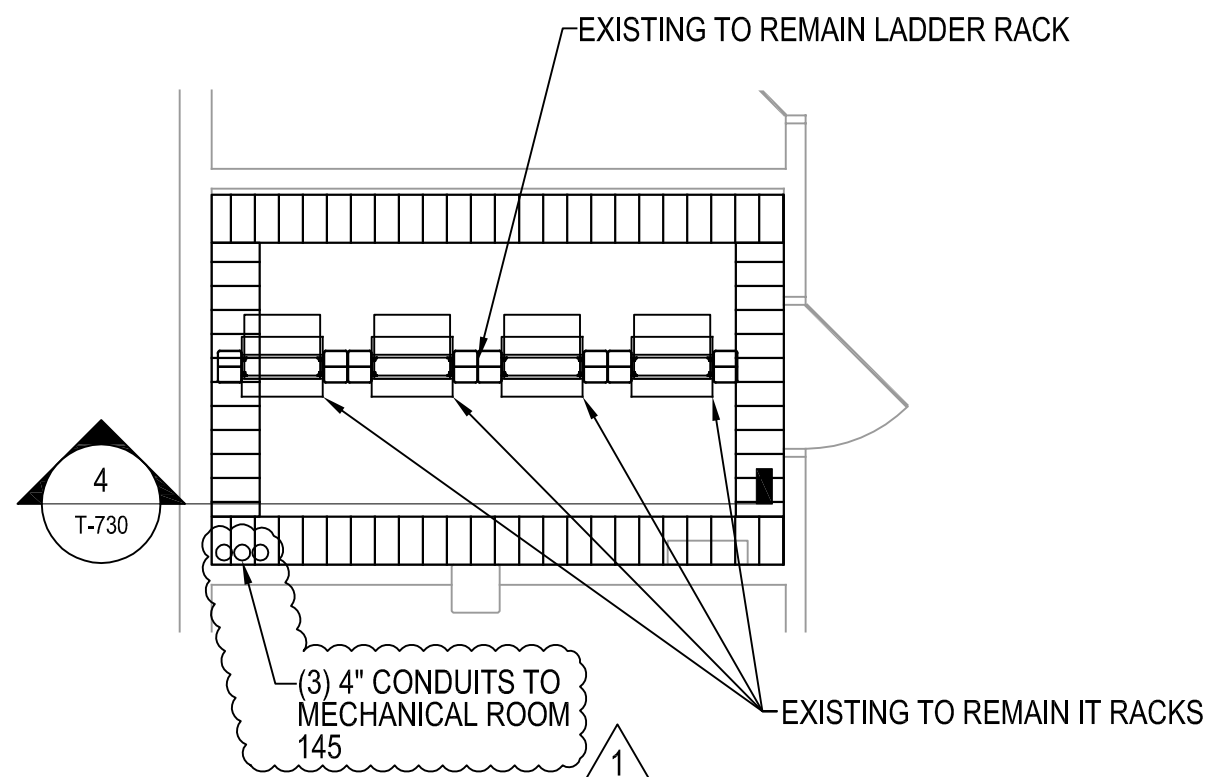
NOTE: ROOM 225A IS AN EXISTING MDF. CLOSE COORDINATION IS REQUIRED WITH EXISTING RACKS AND OSP CONNECTION.



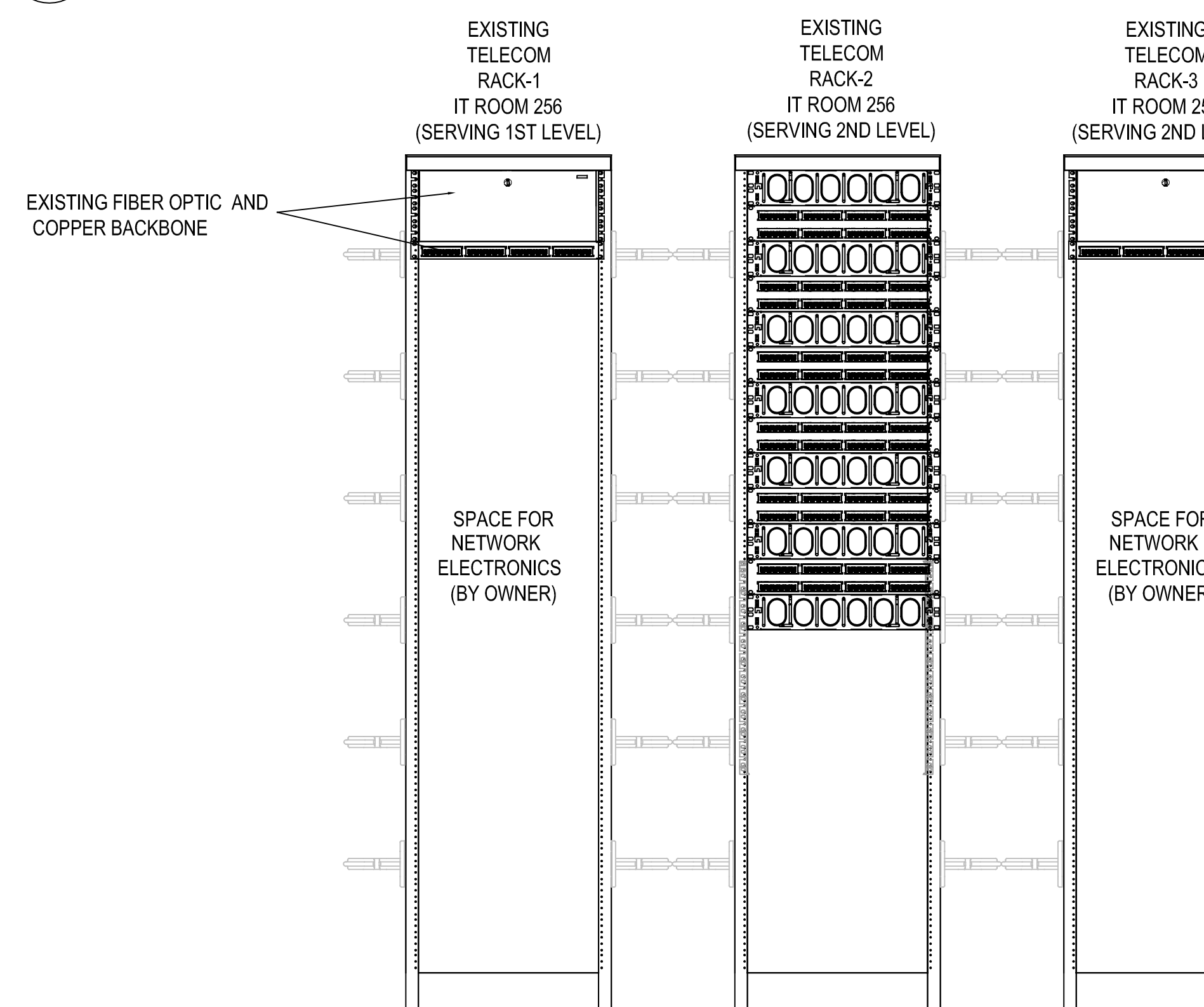
1 FRIDAY IT ROOM 225A  
SCALE: 1/4" = 1'-0"



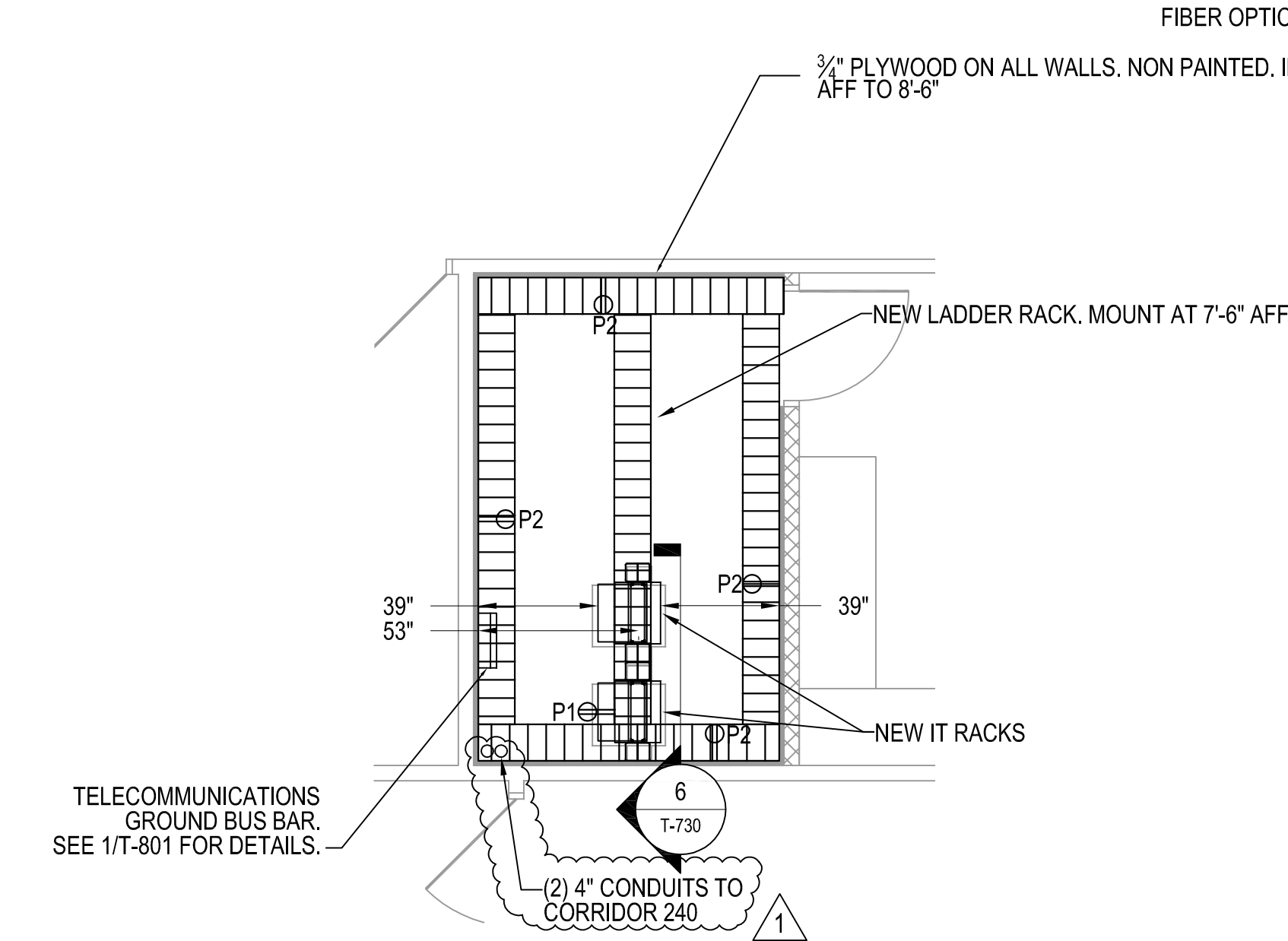
2 FRIDAY IT ROOM 225A RACK ELEVATION  
SCALE: NTS



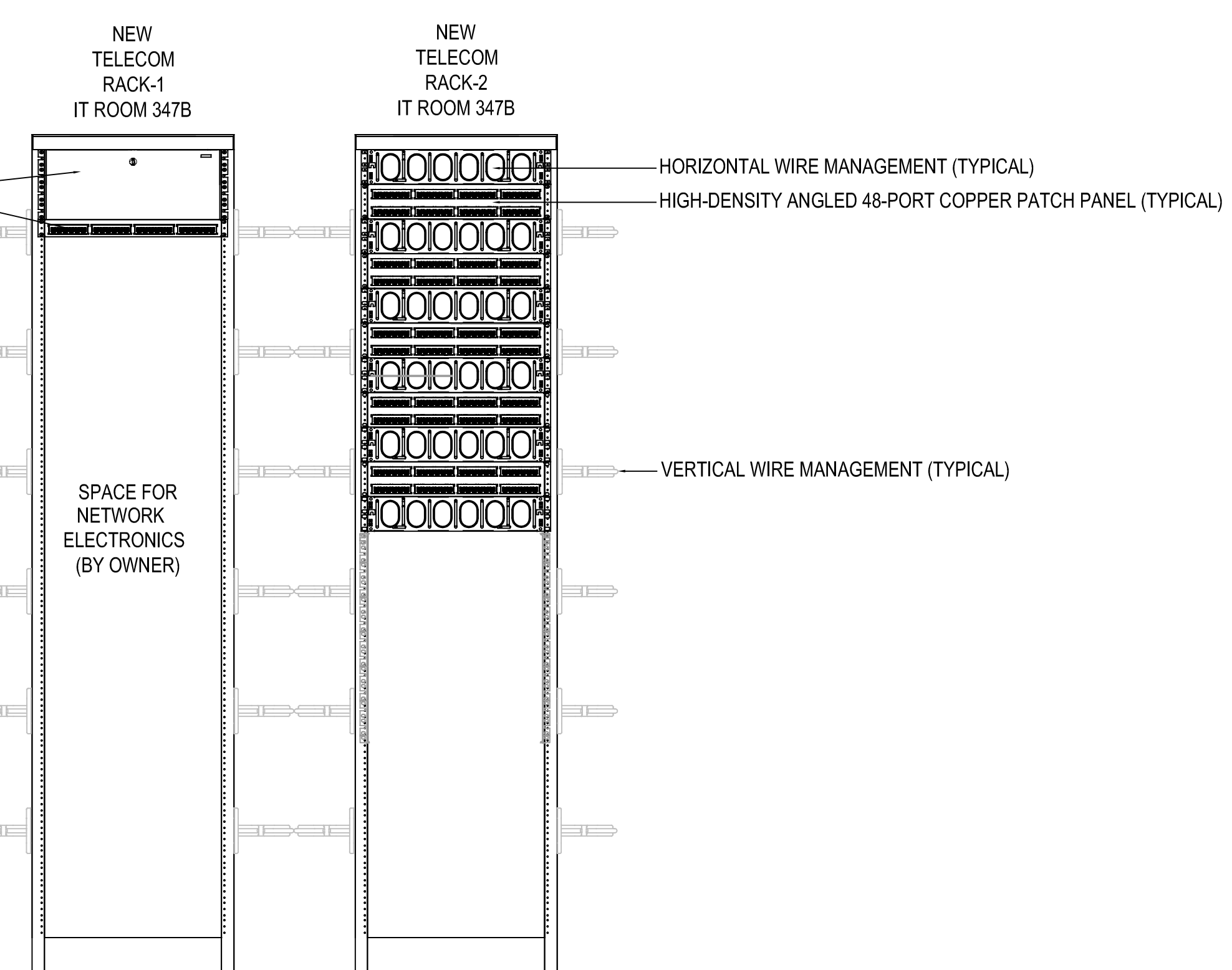
3 FRIDAY IT ROOM 256  
SCALE: 1/4" = 1'-0"



4 FRIDAY IT ROOM 256 RACK ELEVATION  
SCALE: NTS



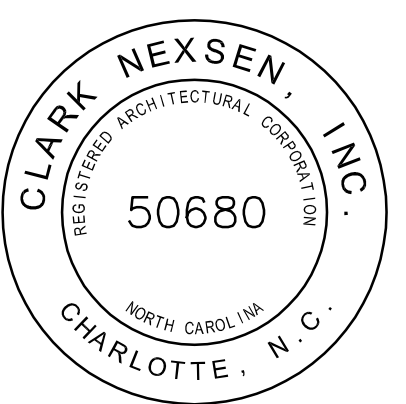
5 FRIDAY IT ROOM 347B  
SCALE: 1/4" = 1'-0"



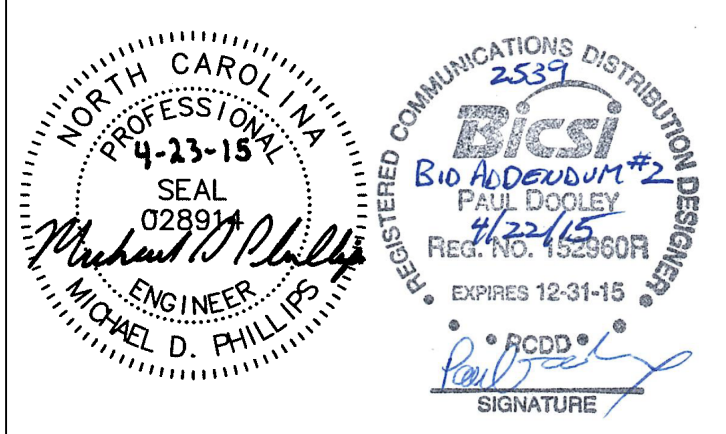
6 FRIDAY IT ROOM 347B RACK ELEVATION  
SCALE: NTS

WALL RATINGS LEGEND  

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 EXISTING 2-HOUR RATED FIRE BARRIER  
 NEW 1-HOUR RATED PARTITION



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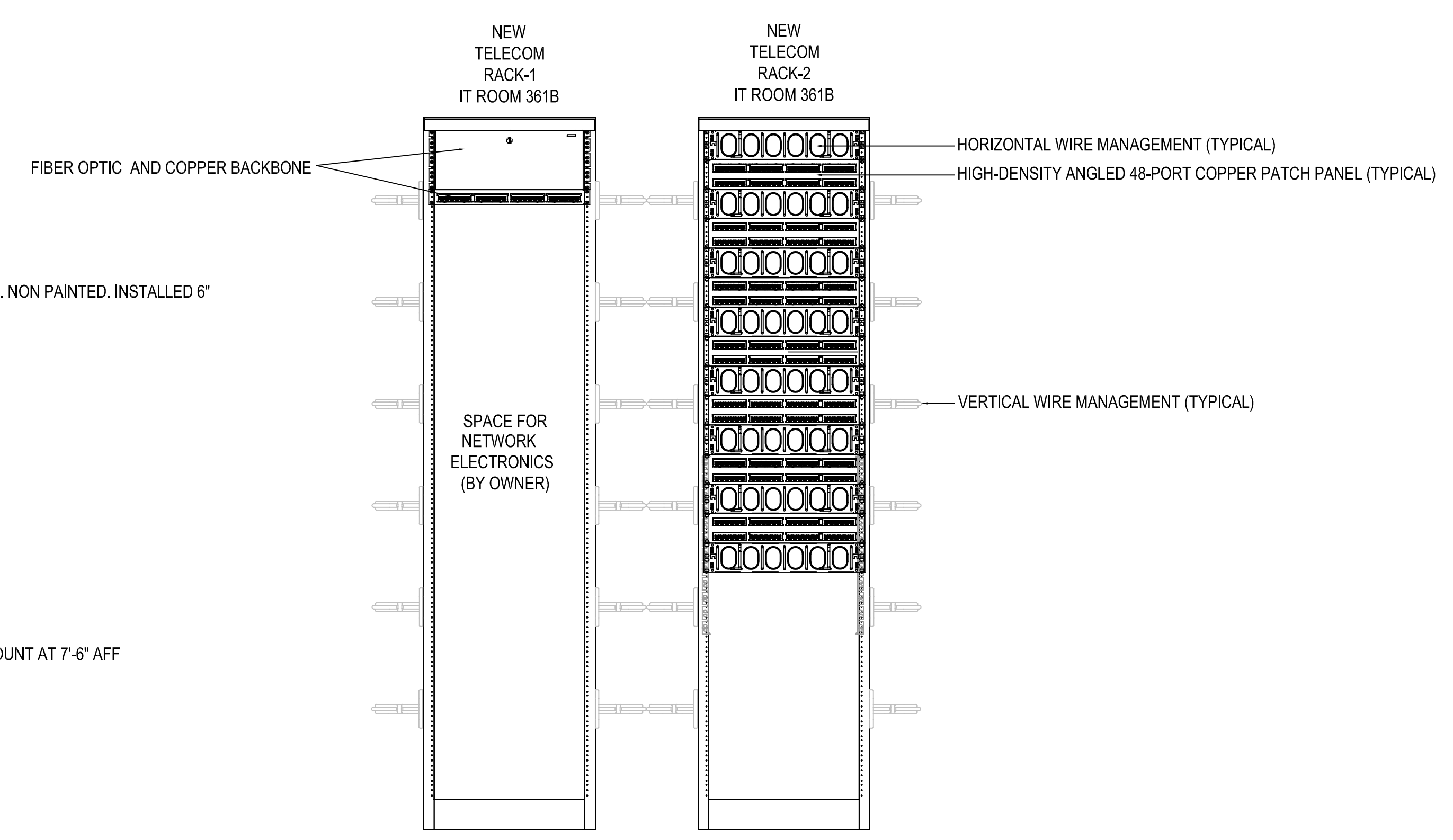
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FRIDAY  
ENLARGED  
TELECOMMUNICATIONS  
PLANS

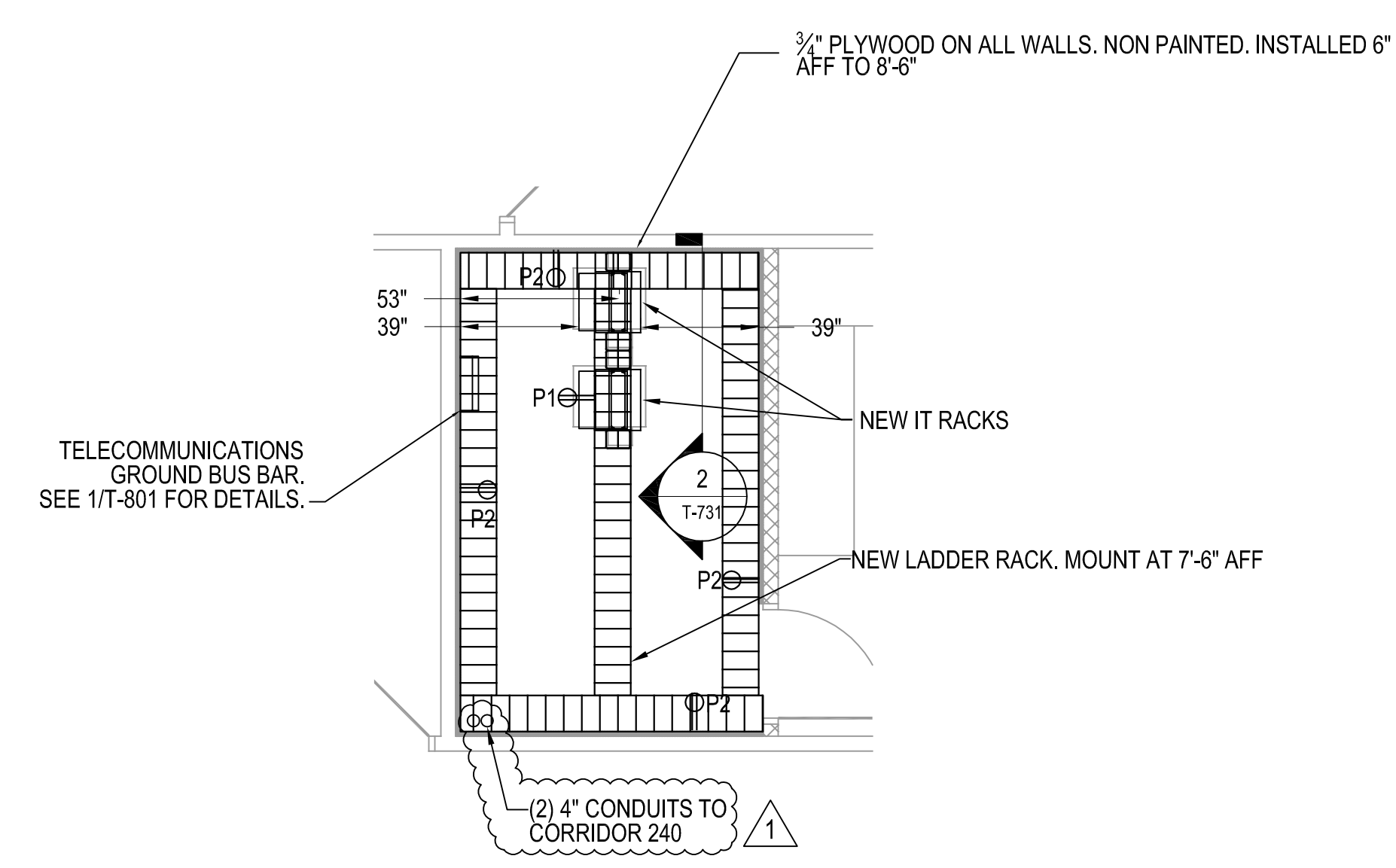
**T-731**

**WALL RATINGS LEGEND**

	EXISTING 1-HOUR RATED FIRE PARTITION
	EXISTING 2-HOUR RATED FIRE BARRIER
	NEW 1-HOUR RATED PARTITION



2 FRIDAY IT ROOM 361B RACK ELEVATION  
T-731 SCALE: NTS



1 FRIDAY IT ROOM 361B  
T-731 SCALE: 1/4" = 1'-0"

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NC ENGINEERING LICENSE # C-1028



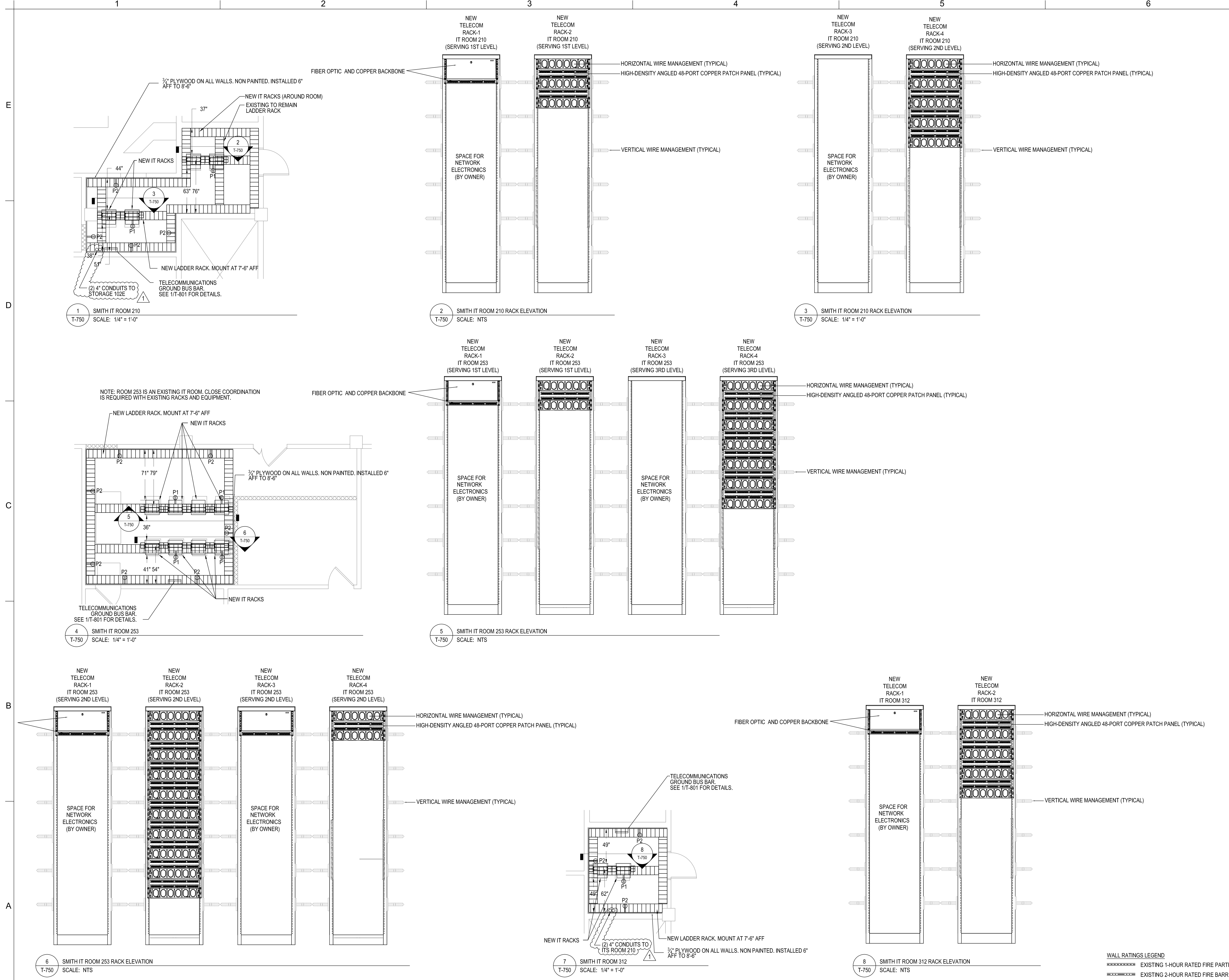
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ALTERNATE #3  
SMITH  
ENLARGED  
TELECOMMUNICATIONS  
PLANS

**T-750**



**WALL RATINGS LEGEND**

- EXISTING 1-HOUR RATED FIRE PARTITION
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 1-HOUR RATED PARTITION

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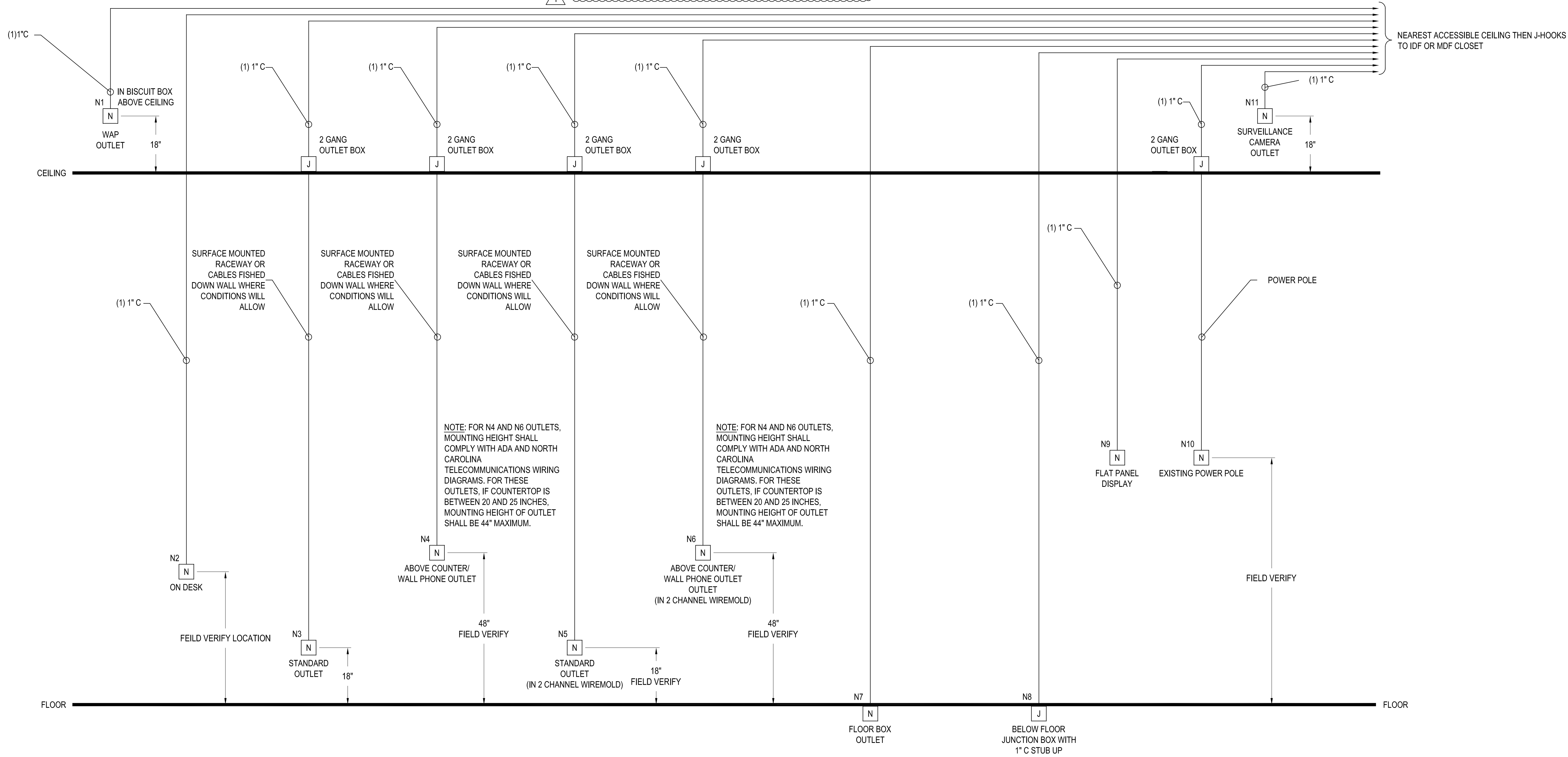
D

C

B

A

NOTE: REFER TO T-001 FOR MORE INFORMATION REGARDING IT INSTALLATION. ALL WALL PENETRATIONS REQUIRE CONDUIT SLEEVES.



CLARK NEXSEN

1523 ELIZABETH AVENUE SUITE 300 CHARLOTTE, NC 28204 704-377-8800 FAX 704-358-1037 WWW.CLARKNEXSEN.COM



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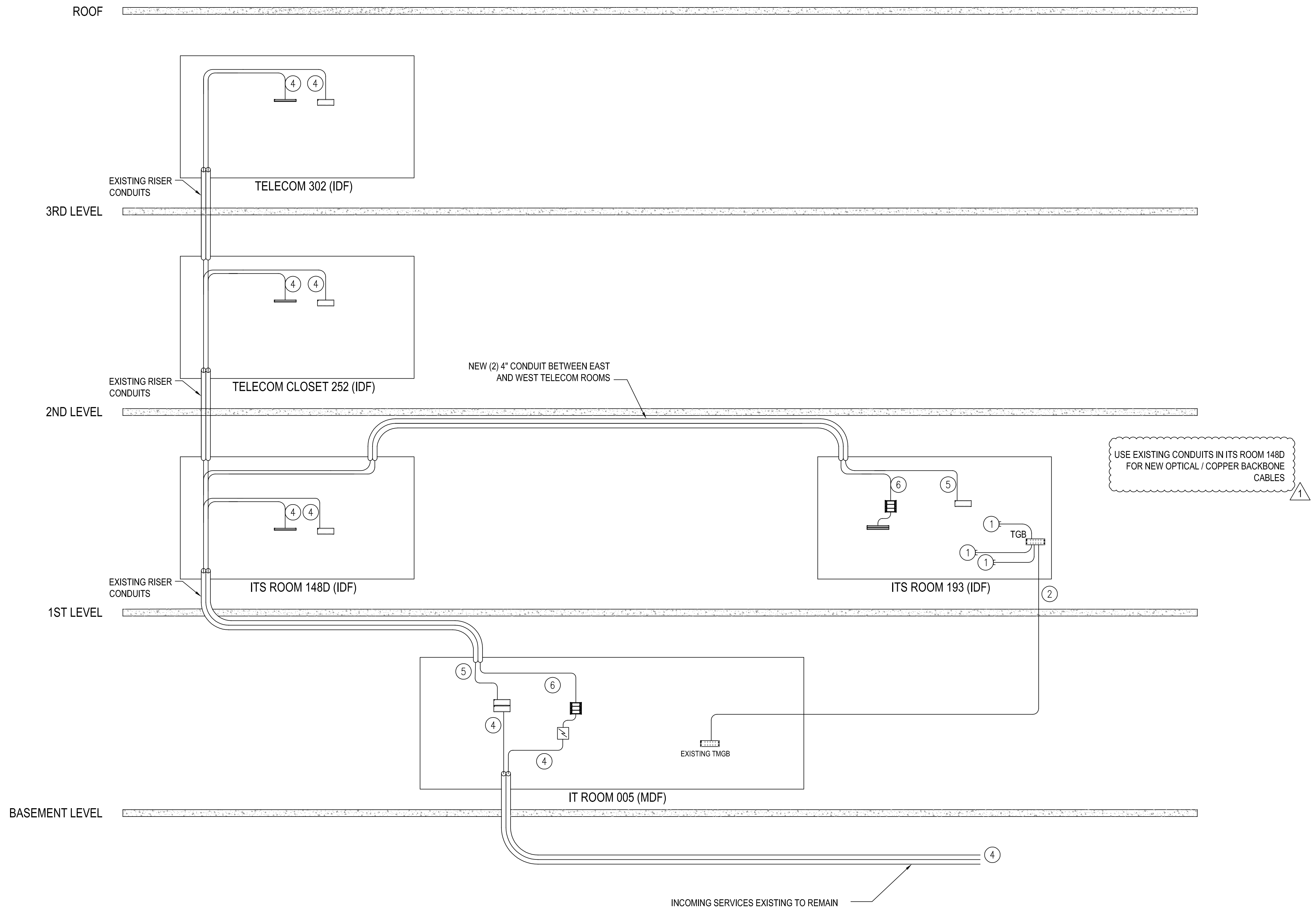
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UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE CAMPUS INFRASTRUCTURE DEVELOPMENT (CID) PHASE II - CAMPUS WI-FI BUILDINGS: CAMERON, COLVARD NORTH, FRETWELL, FRIDAY, KING, & SMITH 9201 UNIVERSITY CITY BOULEVARD, CHARLOTTE, NC 28223

CN NO: 5462 DATE: 3/31/2015 DESIGN: PB DRAWN: PB REVIEW: PP REVISIONS No. Date Description By 1 2015-04-23 BID ADDENDUM #2

NETWORK RISER DIAGRAM

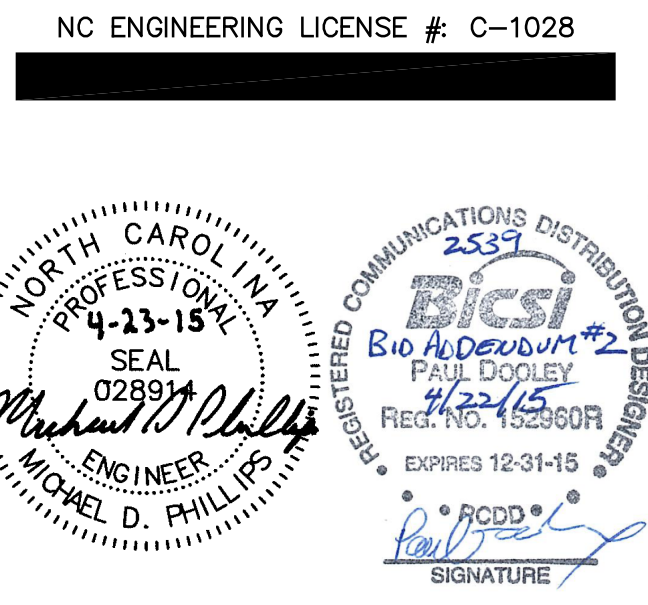
T-900

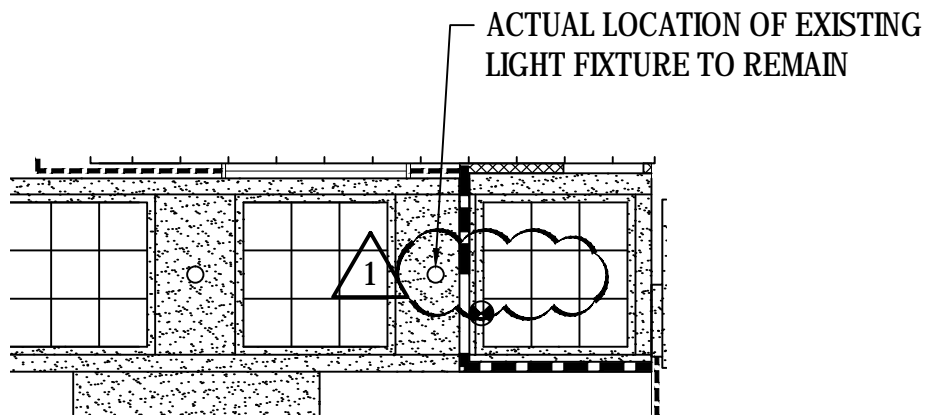


CABLE SCHEDULE		
DESIGNATION	CABLE TYPE	CABLE CONFIGURATION
①	COPPER	#6 AWG STRANDED GROUND CONDUCTOR BY DIVISION 26
②	COPPER	TELECOM BONDING BACKBONE (TBB) BY DIVISION 26
③	N/A	N/A
④	OPTICAL/COPPER	EXISTING TO REMAIN
⑤	OPTICAL	(12) FOMM 62.5-125 MICRO + (12) FOSM MDF TO IDF (PLENUM RATED ARMORED TERMINATED WITH LC CONNECTORS)
⑥	COPPER	25-PR CAT. 5E MDF TO IDF

COMPONENT LEGEND	
	72-PORT OPTICAL FIBER PANEL
	24-PORT RJ-45 PATCH PANEL
	VOICE TERMINATION WALL BLOCK
	TELECOMMUNICATIONS GROUNDING BUSBARS, TMGB & TGB, WALL MOUNTED
	PRIMARY COPPER CABLE PROTECTION, WALL MOUNTED
	PRIMARY CABLE PROTECTION, WALL MOUNTED

- GENERAL NOTES**
- RISER DIAGRAMS ARE INTENDED AS SCHEMATIC REPRESENTATIONS ONLY AND ARE NOT-TO-SCALE. REFER TO PLANS FOR DISTANCE AND COMPLETE ROUTING DETAILS.
  - ALL CONDUIT FOR COMMUNICATIONS SHALL BE FURNISHED AND INSTALLED BY DIVISION 26.
  - TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTORS SHALL BE AS SIZED BY THE ELECTRICAL ENGINEER AND SHALL BE FURNISHED AND INSTALLED BY DIVISION 26.
  - #6 AWG TBB CONDUCTORS SHALL BE FURNISHED AND INSTALLED BY DIVISION 26. INDIVIDUAL "HOME" RUNS SHALL BE MADE FROM THE TMGB/TGB TO EACH OPEN FRAME EQUIPMENT RACK. RACKS SHALL NOT BE DAISY-CHAINED.
  - CABLE RUNWAY WITHIN BDF, SERVER, AND IDF ROOMS SHALL BE FURNISHED AND INSTALLED BY DIVISION 26. #6 AWG GROUND CONDUCTORS SHALL BE FURNISHED AND INSTALLED BY DIVISION 26. EACH CABLE RUNWAY ASSEMBLY SHALL HAVE A MINIMUM OF ONE "HOME" RUN BACK TO THE TGB OR TMGB. ALL CONTINUOUS CABLE RUNWAY SEGMENTS SHALL BE BONDED TOGETHER USING #6 AWG STRAPS AND GROUNDED ACCORDING TO SPECIFICATIONS.
  - REFER TO T001 FOR MORE INFORMATION REGARDING IT INSTALLATION





**3** PARTIAL 2ND & 3RD FLOOR CEILING DEMOLITION PLAN  
 1/8"=1'-0"

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

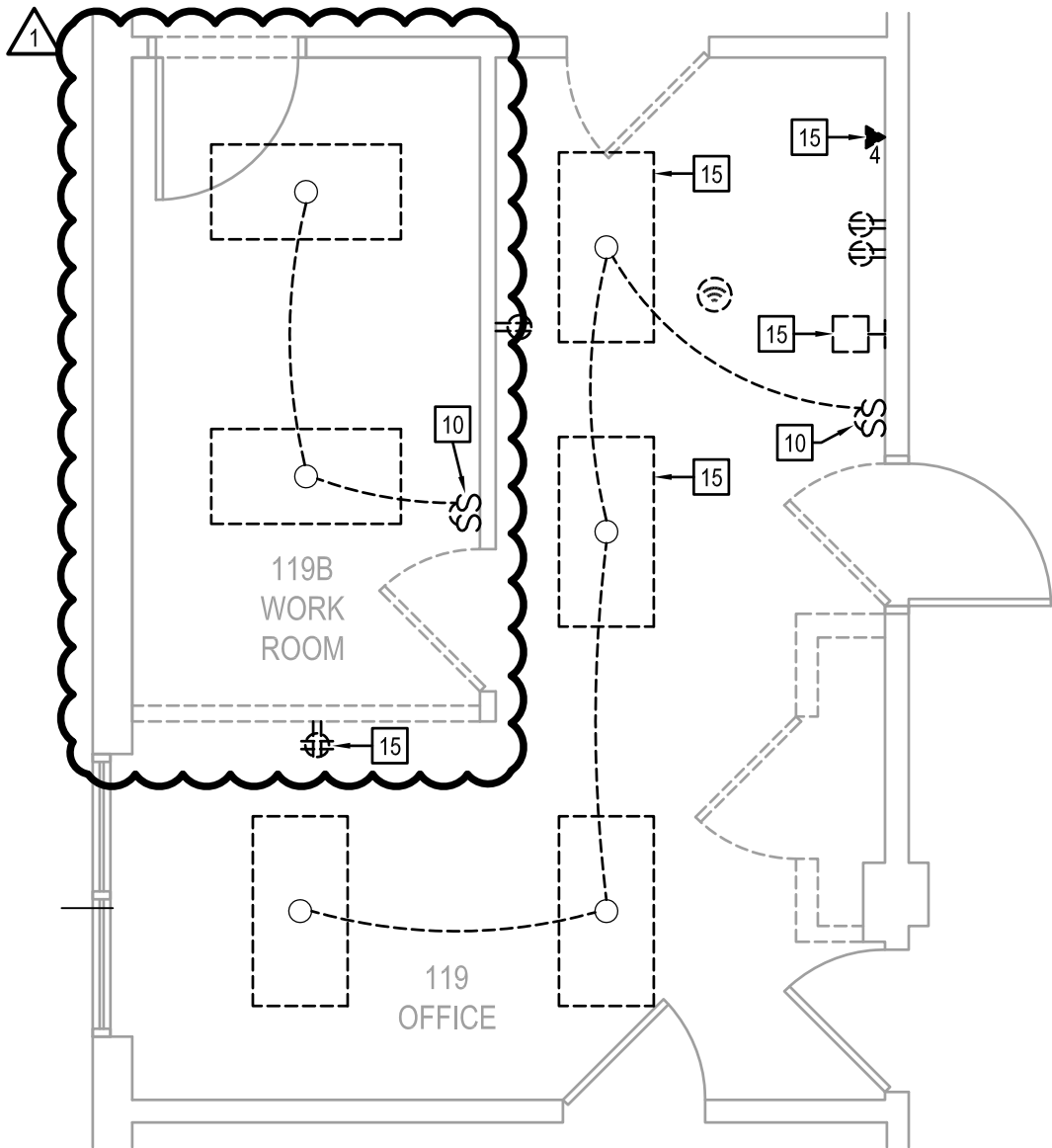


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SHEET TITLE:  
**ADDENDUM #2 - FRETWELL  
 CEILING DEMOLITION PLAN CLARIFICATION  
 SHEET AE202 & AE203**

DESIGNED	KSB	DATE	4/23/15
DRAWN	KSB	JOB NO.	5462
CHECKED	JHJ	SCALE	1/8"=1'-0"

DWG. NO.  
**BD-01**



**4** ALTERNATE #2 KING - DEMOLITION PLAN  
 1/4"=1'-0"

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

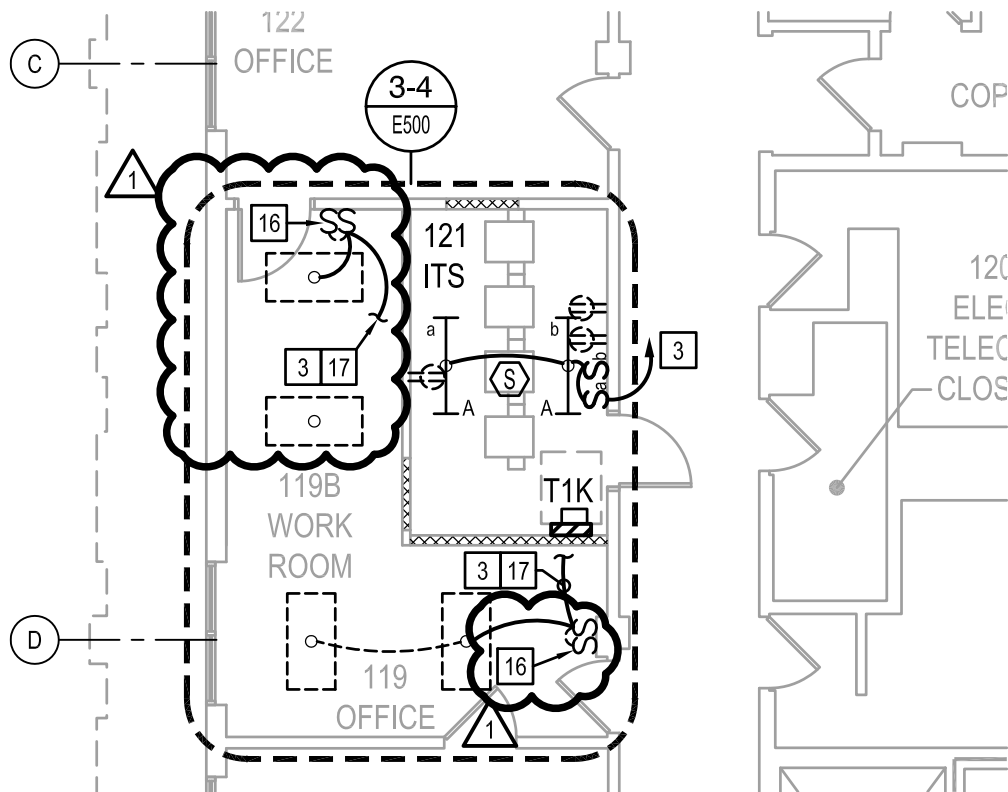


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<http://www.clarknexsen.com>

SHEET TITLE:  
**ADDENDUM #2 - KING  
 WORKROOM | 119B REVISIONS  
 SHEET E500**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	1/8"=1'-0"

DWG. NO.  
**BD-02**



JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

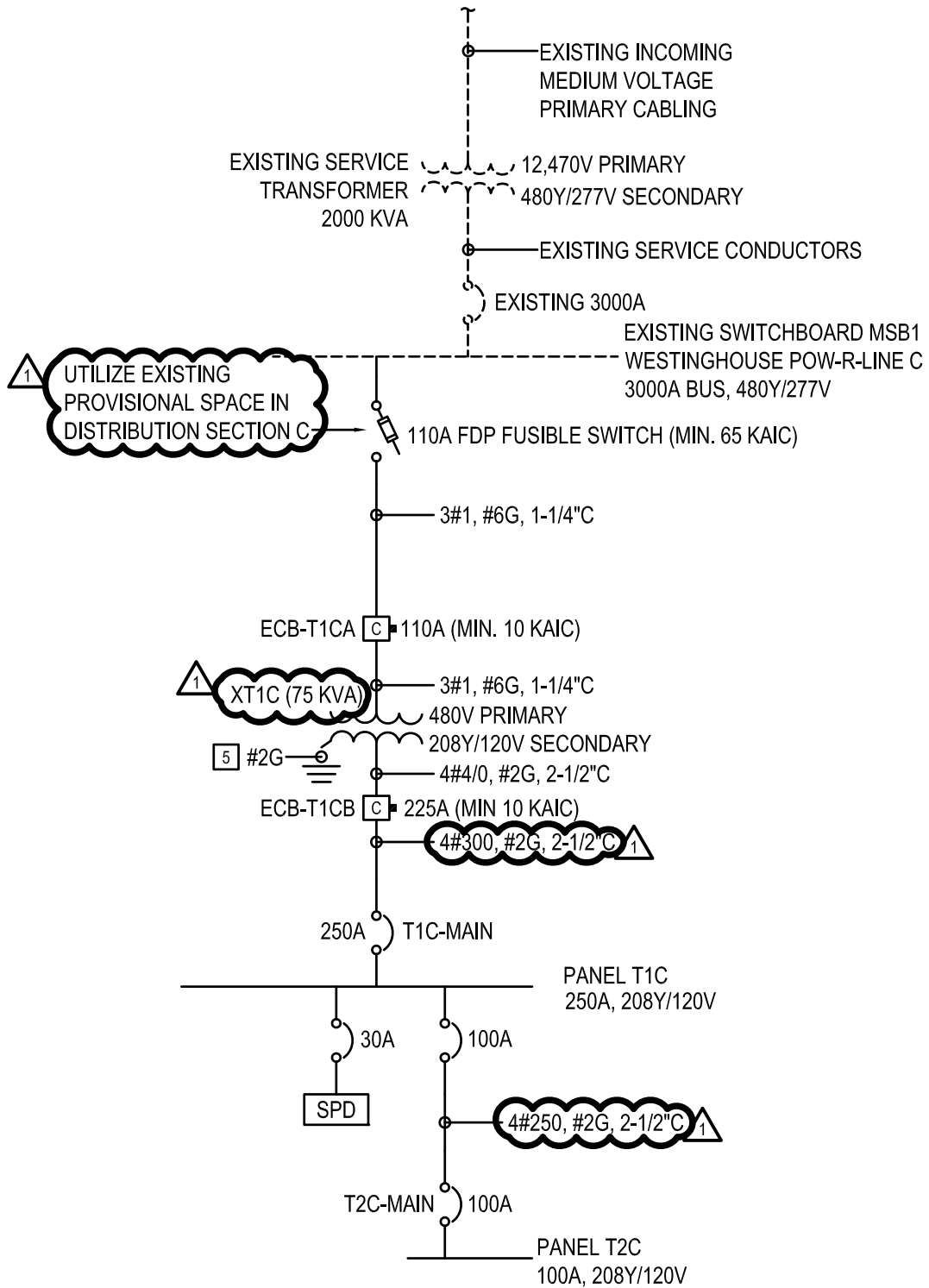


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SHEET TITLE:  
**ADDENDUM #2 - KING  
 WORKROOM 119B REVISIONS  
 SHEET E500**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	1/8"=1'-0"

DWG. NO.  
**BD-03**



1 CAMERON SINGLE-LINE DIAGRAM (ALTERNATE #4)

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

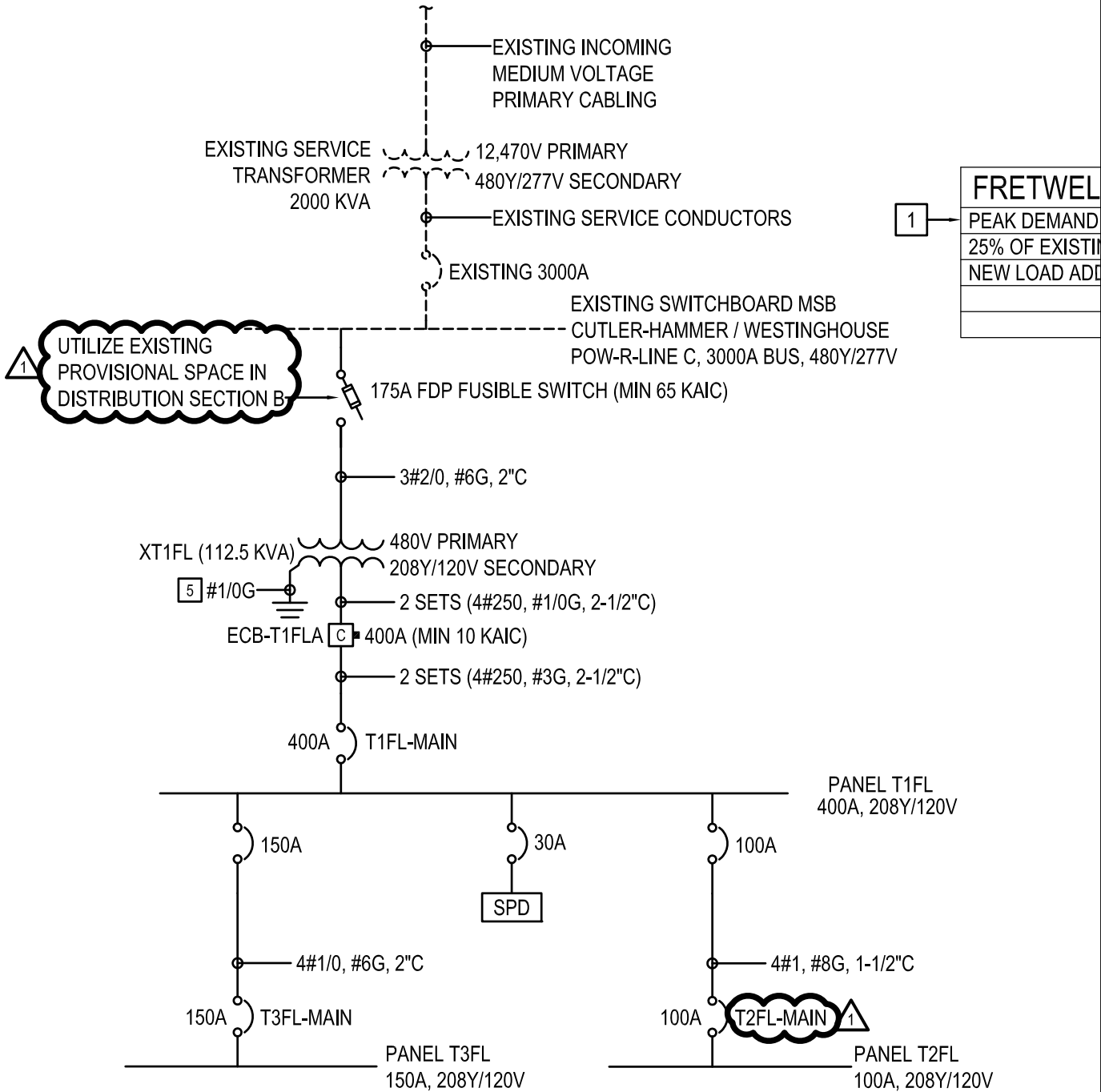
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 Fax: 704/358-1037  
<http://www.clarknexsen.com>

SHEET TITLE:  
**ADDENDUM #2 - CAMERON  
 SINGLE-LINE REVISIONS  
 SHEET E701**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	NTS

DWG. NO.  
**BD-04**



1	<b>FRETWELL</b>
	PEAK DEMAND
	25% OF EXISTING NEW LOAD ADDITION

**2 FRETWELL SINGLE-LINE DIAGRAM**

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**



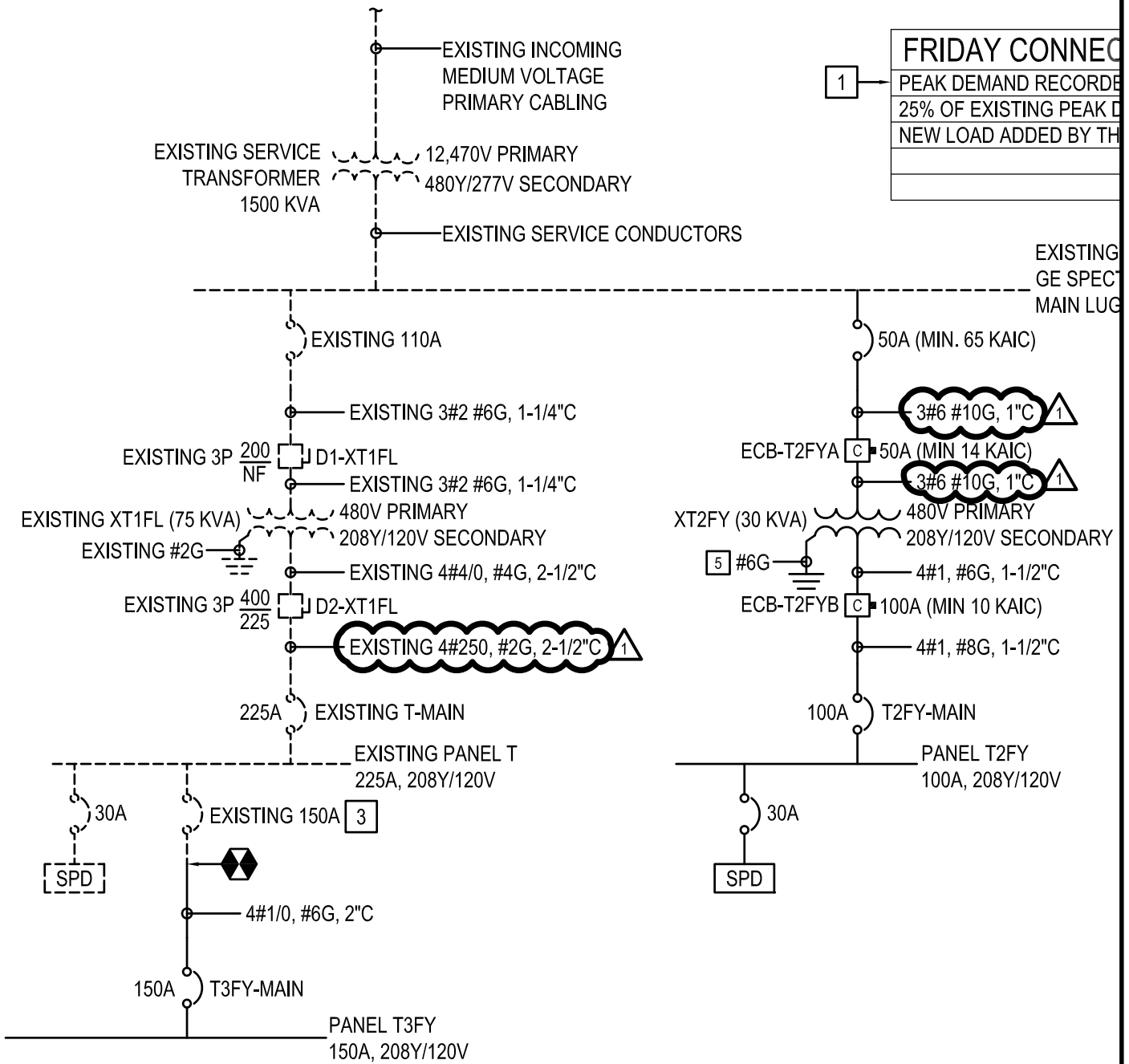
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 704/377-8800  
 Fax: 704/358-1037  
<http://www.clarknexsen.com>

SHEET TITLE:  
**ADDENDUM #2 - FRETWELL  
 SINGLE-LINE REVISIONS  
 SHEET E701**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	NTS

DWG. NO.  
**BD-05**





**3** FRIDAY SINGLE-LINE DIAGRAM

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

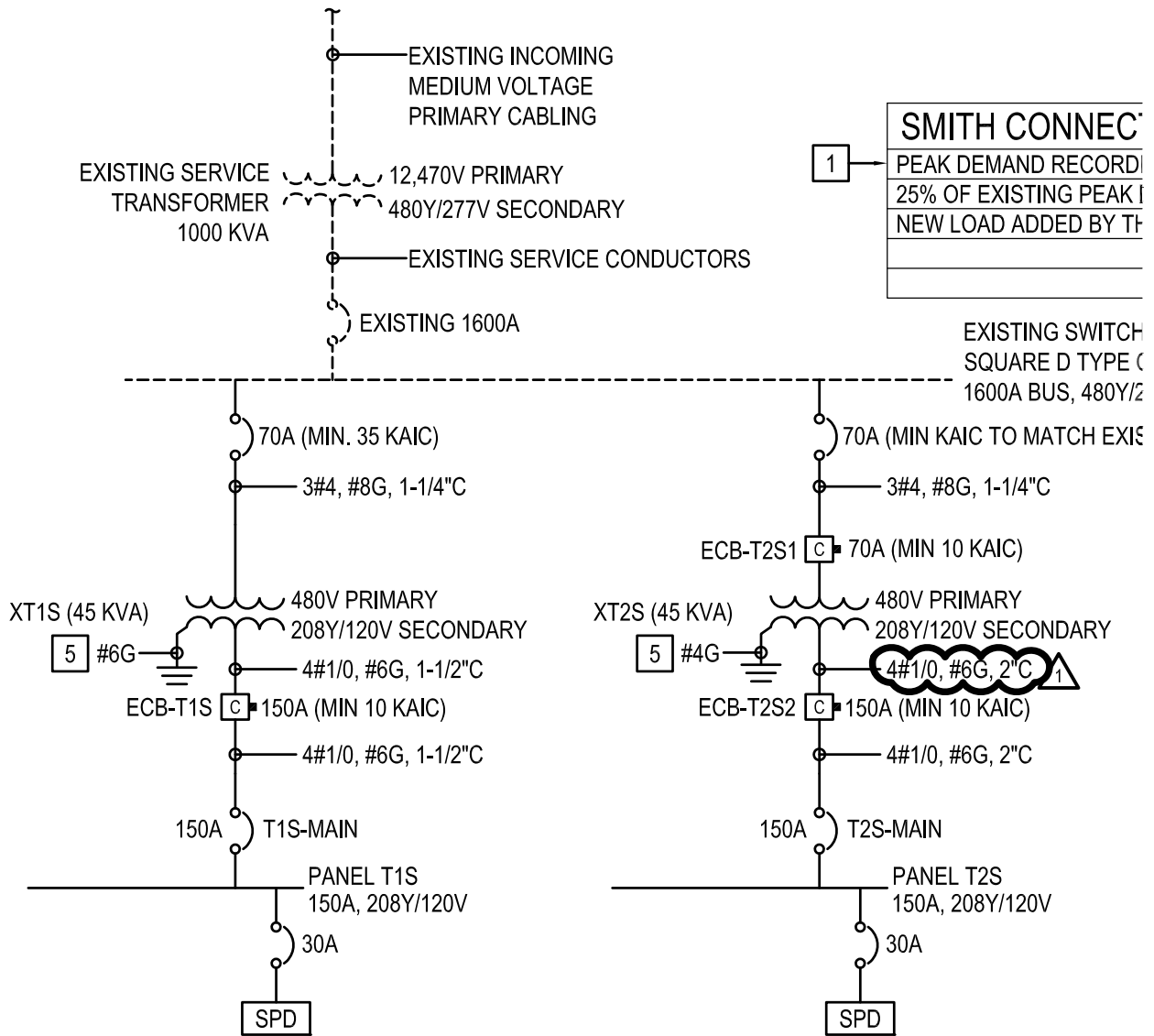
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SHEET TITLE:  
**ADDENDUM #2 - FRIDAY  
 SINGLE-LINE REVISIONS  
 SHEET E70I**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	NTS

DWG. NO.  
**BD-06**



**5** SMITH SINGLE-LINE DIAGRAM (ALTERNATE #3)

JOB TITLE:  
**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 CAMPUS INFRASTRUCTURE DEVELOPMENT  
 PHASE II - CAMPUS WI-FI**

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SHEET TITLE:  
**ADDENDUM #2 - SMITH  
 SINGLE-LINE REVISIONS  
 SHEET E701**

DESIGNED	MDP	DATE	4/23/15
DRAWN	MDP	JOB NO.	5462
CHECKED	MDP	SCALE	NTS

DWG. NO.  
**BD-07**