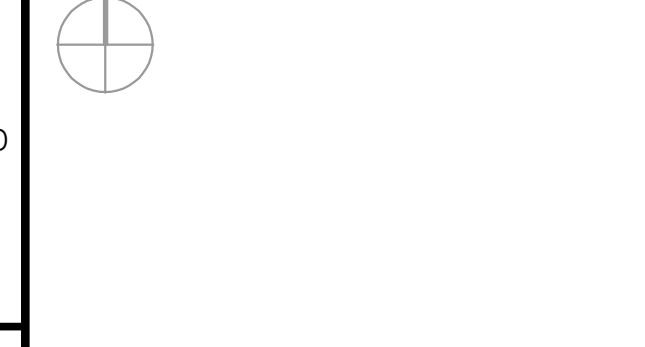




TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE
SE
WINNABOW, NC 28479



REVISIONS

No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME:
SHEET INDEX AND NOTES
SHEET NUMBER:

TELECOMMUNICATIONS
110 TWISTED PAIR TERMINATION BLOCK
ADF AREA DISTRIBUTION FACILITY
BDC BUILDING DISTRIBUTION TELECOMMUNICATIONS ROOM
BDF BUILDING DISTRIBUTION FRAME
BEF BUILDING ENTRANCE FRAME
BY BY OTHERS
CAB TELECOM CABINET OR ENCLOSURE
CONN CONNECTOR
CSC COPPER SPLICE CLOSURE
CVE CONTROLLED ENVIRONMENT VAULT
FDF FIBER DISTRIBUTION FACILITY
FS FIBER SHELF/FIBER TERMINATION PANEL
FSC FIBER OPTIC SPLICE CLOSURE
HI HANDHOLE
IDC INTERMEDIATE DISTRIBUTION TELECOMMUNICATIONS ROOM
IDF INTERMEDIATE DISTRIBUTION FRAME
ISP INSIDE PLANT - CABLE WITHIN A BUILDING
IT INFORMATION TECHNOLOGY
LAN LOCAL AREA NETWORK
MDC MAIN DISTRIBUTION TELECOMMUNICATIONS ROOM
MDF MAIN DISTRIBUTION FRAME
MH MANHOLE, MAINTENANCE HOLE
MPOE MINIMUM POINT OF ENTRY
OCEF OPTICAL CABLE ENTRANCE FACILITY
OSP OUTSIDE PLANT - CABLE OUTSIDE A BUILDING
PAV PAVEMENT
PC PLASTIC CONDUIT
PG PAIR GROUP
POP POINT OF PRESENCE
PR PAIR
PVC POLYVINYL CHLORIDE
RU RACK UNIT
R/W RIGHT-OF-WAY
SC SPLICE CLOSURE
SSC STRUCTURED CABLING SYSTEM
SER SERIAL
SMR SURFACE MOUNTED RACEWAY
SS FIBER SPLICE SHELF
TC TELECOM CONDUIT
TCH TELECOM CONDUIT SLEEVE, HORIZONTAL
TOR TELECOM HORIZONTAL AND VERTICAL RISER CONDUIT
TCT TELECOM CABLE TRAY
TEC TELECOM ENTRANCE CONDUIT
TEL TELEPHONE
TELECOM TELECOMMUNICATIONS
TERM TERMINAL
TP TWISTED PAIR
TPB TELECOM PULL BOX
TR TELECOM ROOM
TSL TELECOM WALL OR FLOOR SLOT
TSY TELECOM TRAY SLEEVE, VERTICAL
WAN WIDE AREA NETWORK

ELECTRICAL
A or AMP AMPERE
BND BOND(ING)
C CONDUIT
ELEC ELECTRICAL
EMT ELECTRICAL METALLIC TUBING
ENT ELECTRICAL NON-METALLIC TUBING
GND GALVANIZED RISER CONDUIT
GND GROUND
Hz HERTZ
IG ISOLATED GROUND
IMC INTERMEDIATE METALLIC CONDUIT
PB PULL BOX
PLN PANEL
PWR POWER
UPS UNINTERRUPTABLE POWER SUPPLY
V VOLT
VAC VOLTS, ALTERNATING CURRENT
VDC VOLTS, DIRECT CURRENT
W WATT
XFMR TRANSFORMER

GENERAL
(e)(x)(E) EXISTING
(n)(x)(N) NEW
ABV ABOVE
ACH ABOVE COUNTER HEIGHT
ACT ACOUSTICAL CEILING TILE
ADJ ADJUST(ABLE)
AFD ABOVE FINISHED CEILING
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
ALT ALTERNATE
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX APPROXIMATE
ARCH ARCHITECTURAL
ASA AMERICAN STANDARDS ASSOCIATION
AV AUDIOVISUAL
AVC AUDIOVISUAL CONTRACTOR
BET BETWEEN
BFC BELOW FINISHED CEILING
BLDG BUILDING
BLW BELOW
CB CEILING BOX
C-C CENTER TO CENTER
CL CENTER LINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASON UNIT
COL COLUMN
CONC CONCRETE
CONT CONTINUOUS
COORD COORDINATE, COORDINATION
CORR CORRIDOR
DED DEDICATE, DEDICATED
DEMO DEMOLISH
DEPT DEPARTMENT
DET DETAIL
DIM DIMENSION
DIST DISTANCE
DTC DATA TELECOMMUNICATION CONTRACTOR
DWG DRAWING
EACH EACH
EC ELECTRICAL CONTRACTOR
ELEV ELEVATION
EMERG EMERGENCY
EQ EQUIPMENT
EQUIV EQUIVALENT
EWP ELECTRONIC WHITE BOARD
EXT EXTERIOR
FCC FEDERAL COMMUNICATIONS COMMISSION
FINISH FINISH
FLR FLOOR
FLUORESC FLUORESCENT
FUT FUTURE
GA GAUGE
CALV CALIBRATED
GEN GENRAL CONTRACTOR
GYSUM GYPSUM WALL BOARD
IFC IN FINISHED CEILING
INF INFORMATION
INCAN INCANDESCENT
INCL INCLUDE, INCLUDING
INT INTERIOR
INT INTERIOR
LVI LOW VOLTAGE INTERFACE
MAX MAXIMUM
MECH MECHANICAL
MEP MECHANICAL, ELECTRICAL, AND PLUMBING
MFG MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
NA NOT APPLICABLE
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NO NOT IN CONTRACT
No. NUMBER
NOM NOMINAL
NTS NOT TO SCALE

MEASUREMENTS
BTU BRITISH THERMAL UNIT
D or Dp DEEP
Dia DIAMETER
FT FOOT or FEET
H or HGT HEIGHT or HIGH
ID INSIDE DIAMETER
IN INCH
L LENGTH or LONG
LB POUND
LIN LINEAR
M METER
mm MILLIMETER
OD OUTSIDE DIAMETER
R RADIUS
RAD RADIAN
um MICRON
W WIDE
WT WEIGHT
YD YARD

DIRECTIONAL
DN DOWN
E EAST
HORIZ HORIZONTAL
L LEFT
LH LEFT HAND
N NORTH
PERP PERPENDICULAR
R RIGHT
RH RIGHT HAND
S SOUTH
VERT VERTICAL
W WEST

SYMBOLS
POUND OR NUMBER
& AND
@ AT
' FOOT OR FEET
" INCH OR INCHES
+/- or + PLUS OR MINUS
< LESS THAN
= EQUAL
> GREATER THAN
Δ DEGREE, ANGULAR MEASURE
Ø DIA DIAMETER
∠ ANGLE

COLOR CODE
A ALMOND
B BROWN
C CRIMSON RED
E BLACK
G GRAY
I IVORY
L BLUE
O ORANGE
P PURPLE
R DARK RED
V GREEN
W WHITE
Y YELLOW

ON CENTER
OCFI OWNER FURNISHED CONTRACTOR INSTALLED
OFE OWNER FURNISHED EQUIPMENT
OFI OWNER FURNISHED OWNER INSTALLED
OPP OPPOSITE
OSHA OCCUPATIONAL SAFETY AND HEALTH ADMIN.
OHD OVERHEAD
PLC PERFORMANCE LIGHTING CONTRACTOR
PLY PLYWOOD
PRI PRIMARY
PROP PROPOSED
PSC PROJECTION SCREEN CONTROL
QTY QUANTITY
RCC REFLECTED CEILING PLAN
RCT RECEPTACLE
REF REFERENCE
REM REMOVE
REPL REPLACE
REQD REQUIRED
RM ROOM
SCHD SCHEDULE
SECT SECTION
SHT DRAWING SHEET NUMBER OR SERIES
SIM SIMILAR
SPEC SPECIFICATION
SQ SQUARE
STD STANDARD
STL STEEL
SUSP SUSPENDED
SWT SWITCH
SYM SYMMETRICAL
TELC TELECOMMUNICATIONS CONTRACTOR
TEMP TEMPORARY
THK THICK(NESS)
TIA/EIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION/
ELECTRONICS INDUSTRY ALLIANCE
TME TYPICAL
TYP TYPICAL
UBC UNIFORM BUILDING CODE
UC UNDER COUNTER
UL UNDERWRITERS LABORATORY
UON UNLESS OTHERWISE NOTED
VF VERIFY IN FIELD
W WITH
W/O WITHOUT
WO WOOD

WIRE AND CABLE
AFMW BONDED FILL FLOODED TWISTED CABLE
ARMW RISER ARMORED BONDED MULTIPAIR CABLE
AWC AMERICAN WIRE GAUGE
CAT3 CATEGORY 3 TWISTED PAIR COPPER CABLE
CAT4 CATEGORY 4 TWISTED PAIR COPPER CABLE
CAT5 CATEGORY 5 TWISTED PAIR COPPER CABLE
CAT5e CATEGORY 5 ENHANCED TWISTED PAIR COPPER CABLE
CAT6 CATEGORY 6 TWISTED PAIR COPPER CABLE
CM NEC. COMMUNICATIONS CABLE
CMP NEC. COMMUNICATIONS PLENUM CABLE
CNR NEC. COMMUNICATIONS RISER CABLE
COAX COAXIAL CABLE
FO FIBER OPTIC
HDPE HIGH DENSITY POLYETHYLENE
LTFE LOOSE TUBE FILLED & FLOODED
MDPE MEDIUM DENSITY POLYETHYLENE
MM MULTIMODE FIBER OPTIC CABLE
MPP NEC. MULTIPURPOSE PLENUM CABLE
OFC NEC. OPTICAL FIBER CONDUCTIVE CABLE
OFCP NEC. OPTICAL FIBER CONDUCTIVE PLENUM CABLE
OFCR NEC. OPTICAL FIBER CONDUCTIVE RISERCABLE
OFNR NEC. OPTICAL FIBER NON-CONDUCTIVE CABLE
OFN NEC. OPTICAL FIBER NON-CONDUCTIVE PLENUM CABLE
OFNP NEC. OPTICAL FIBER NON-CONDUCTIVE RISERCABLE
SM SINGLE MODE FIBER OPTIC CABLE
STP SHIELDED TWISTED PAIR
TB TIGHT BUFFERED
UTP UNSHIELDED TWISTED PAIR
WM WIRE MANAGER/MANAGEMENT

PROJECT NOTES
1. TRADE COORDINATION BETWEEN NETWORK AND SECURITY VENDORS:
A. ALL RACKS WILL BE PROVIDED BY IT/COMMUNICATIONS VENDOR. RACKS ARE SHOWN IN THIS SET FOR CLARITY.
B. ALL CONDUIT AND POWER TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
C. ALL DOOR SECURITY DEVICES AND CABLEING TO BE PROVIDED BY SECURITY VENDOR.
D. ALL CAMERA MOUNTS AND ROUGH IN BY SECURITY VENDOR.

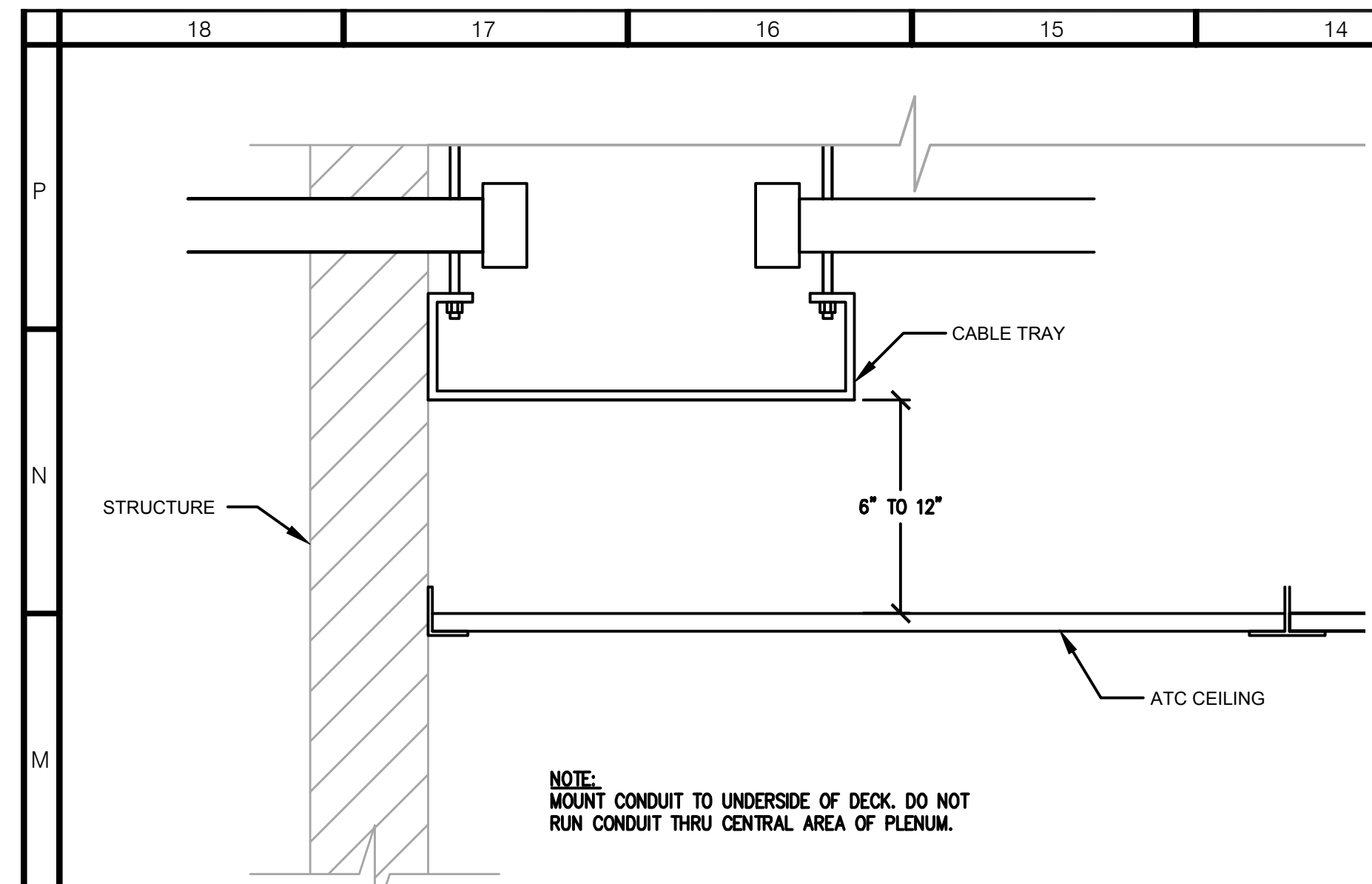
GENERAL NOTES
1. PROVIDE 25 FEET OF SPARE NETWORK CABLE OUT EACH WAP FOR RELOCATION BASED ON RF MAP.
2. MINIMUM CONDUIT DIAMETER IS 1" UON.
3. STUB ALL NETWORK CONDUIT OUR TO ACCESSIBLE PATH IN CEILING PLENUM

1
2
3
4
5
6
7
8
9
10
11

PROJECT SYMBOLS
POS POINT OF SALE BY OFF
--- ZONE
--- JH --- CABLE PATHWAY
CABLE HOME RUN TO LOCATION
CONDUIT HOME RUN TO LOCATION
WHITE BOARD
SMARTBOARD
SMARTBOARD WALL BOX
2 GANG, 2.5" DEEP
SEE DETAIL 11/TN-701
INTERCOM WALL BOX
2 GANG, 2.5" DEEP
SEE DETAIL 10/TN-701
WIRELESS ACCESS POINT
SEE DETAIL 13/TN-701
15 AMP 120 VAC QUAD RECEPTACLE
20 AMP 120 VAC TWIST LOCK RECEPTACLE
2 PORT DATA JACK IN FLOOR BOX
2 PORT DATA JACK FOR MENU BOARD
4 PORT DATA JACK AT OUTLET HEIGHT
SEE DETAIL 5/TN-701
2 PORT DATA JACK AT OUTLET HEIGHT
SEE DETAIL 6/TN-701
1 PORT DATA JACK AT OUTLET HEIGHT
SEE DETAIL 4/TN-70X
CEILING MOUNTED INTERCOM VOIP LOUDSPEAKER
BY DTC
SEE DETAIL 14/TN-701
GROUND BUS BAR
19" X 84" ALUMINUM RACK WITH CABLE MANAGEMENT AND AC POWER DISTRIBUTION.
RISER CONDUIT THRU
SEE DETAIL 1/TN-701
12 INCH CABLE RUNWAY
DETAIL LOCATION ARROW

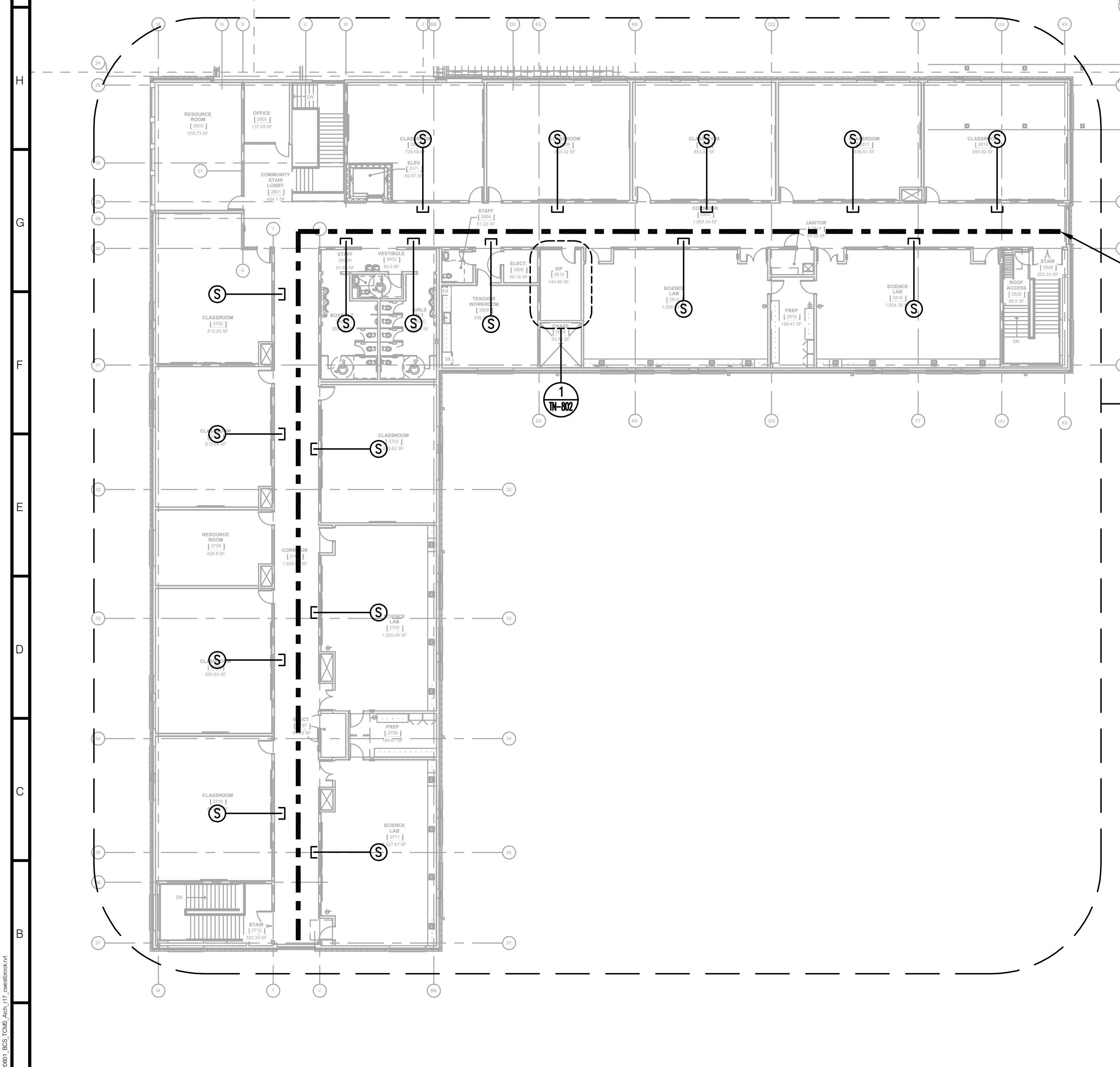
DRAWINGS ISSUED LOG
05/18/2018 TO SET
06/14/2018 TO SET
06/17/2018 REVISION SET
06/17/2018 TO SET
06/24/2018 CONSTRUCTION DOCUMENTS

NUMBER	DRAWING NAME	X	X	X	X	X	X	X	X	X	X
TN-001	SHEET INDEX AND NOTES										
TN-100	OVERALL FLOOR PLANS										
TN-101A	FIRST FLOOR PLAN - AREA A										
TN-101Bn	FIRST FLOOR PLAN - AREA Bn										
TN-101Bb	FIRST FLOOR PLAN - AREA Bb										
TN-101C	FIRST FLOOR PLAN - AREA C										
TN-102C	SECOND FLOOR PLAN - AREA C										
TN-501	RACK ELEVATIONS AND DETAILS										
TN-701	COORDINATION DETAILS										
TN-801	ADF ROOM (1122) ENLARGED PLANS										
TN-802	IDF ROOM (1810) ENLARGED PLANS										
TN-803	IDF ROOM (2810) ENLARGED PLANS										



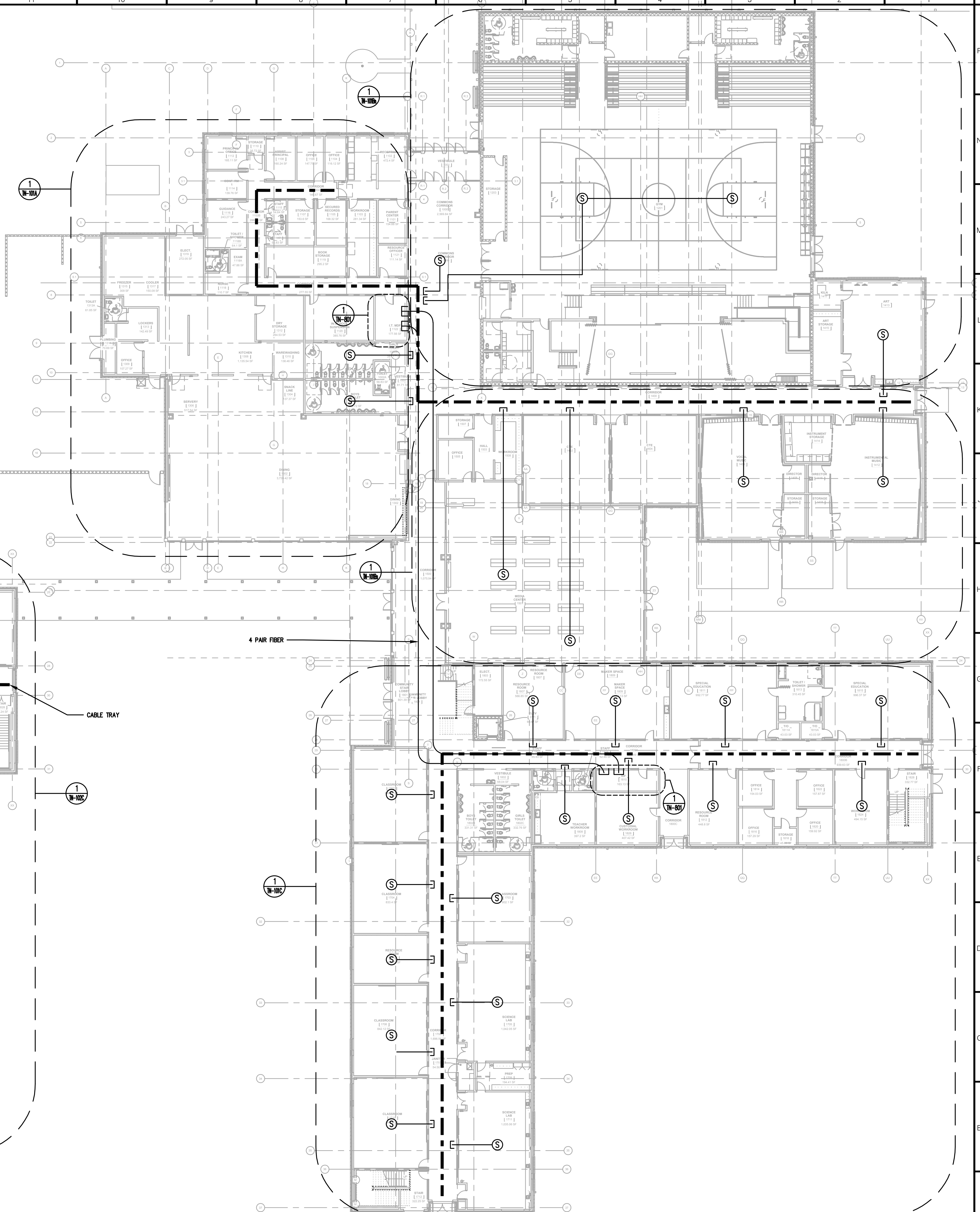
CABLE TRAY SECTION
SCALE: 3" = 1' - 0"

16



SECOND FLOOR OVERALL PLAN
SCALE: 1/16" = 1' - 0"

9



FIRST FLOOR OVERALL PLAN
SCALE: 1/16" = 1' - 0"

1

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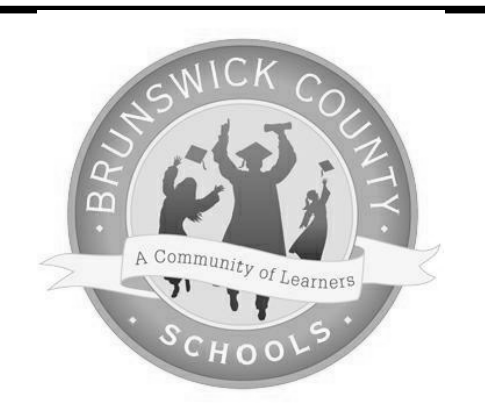
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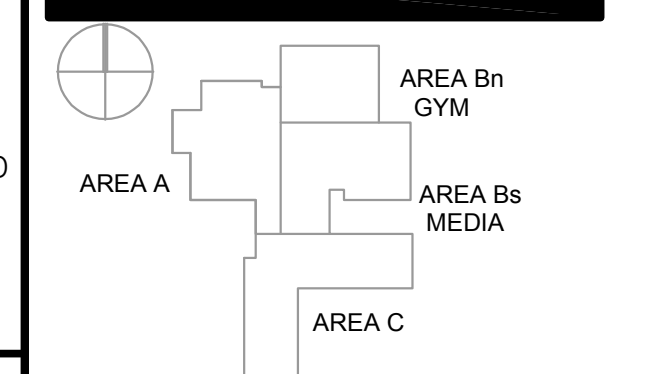
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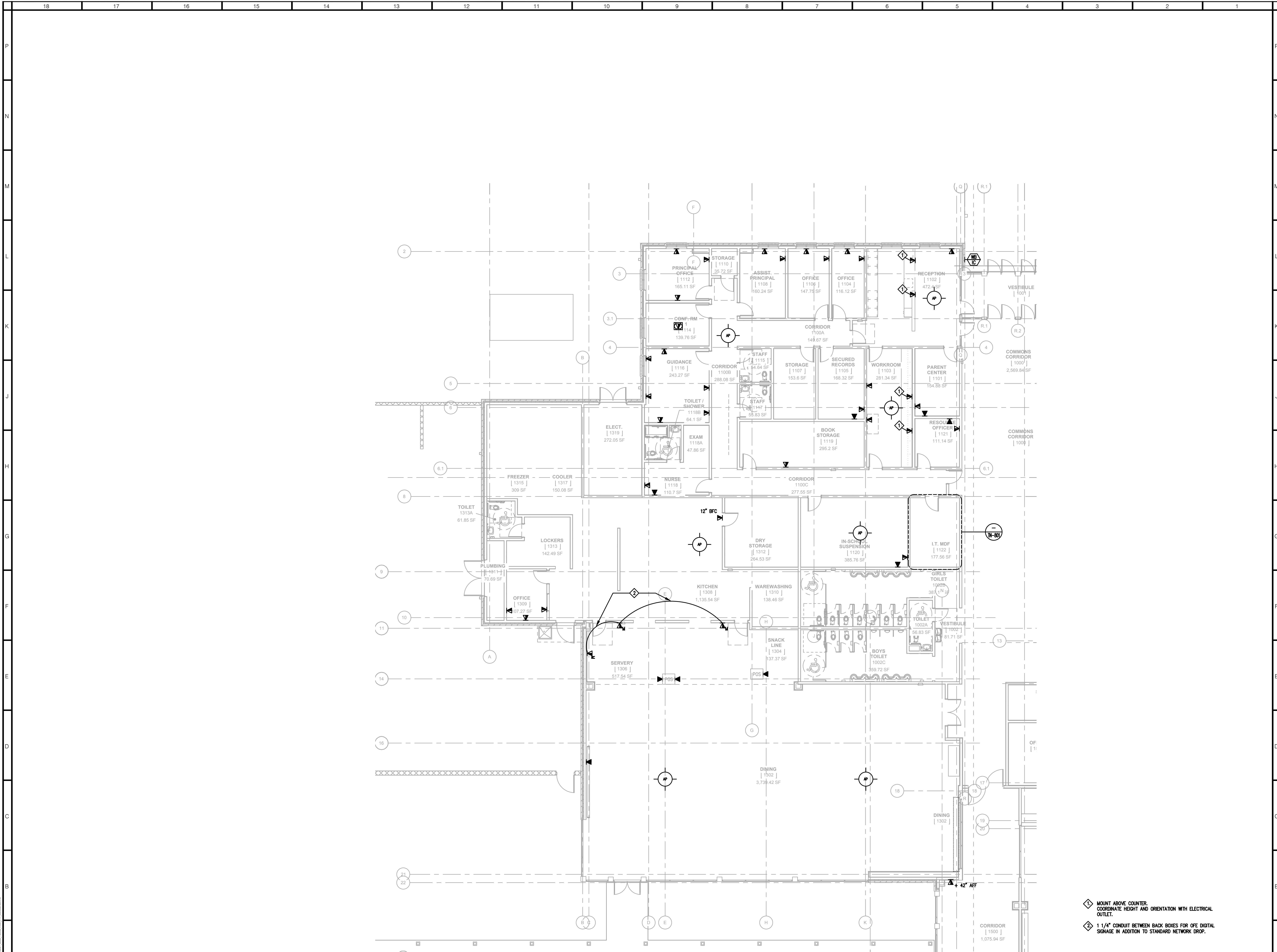
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SCALE: 1/16" = 1'-0"
SHEET NAME:
OVERALL FLOOR PLANS

SHEET NUMBER:

TN-100



FIRST FLOOR PLAN - AREA A
 SCALE: 1/8" = 1' - 0"

- ◆ MOUNT ABOVE COUNTER. COORDINATE HEIGHT AND ORIENTATION WITH ELECTRICAL OUTLET.
- ◆ 1 1/4" CONDUIT BETWEEN BACK BOXES FOR OFE. DIGITAL SIGNAGE IN ADDITION TO STANDARD NETWORK DROP.

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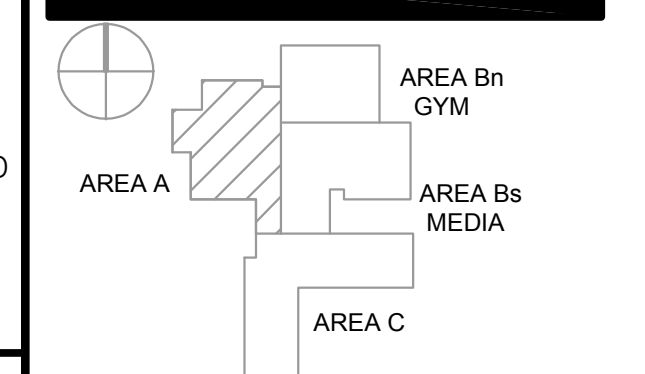
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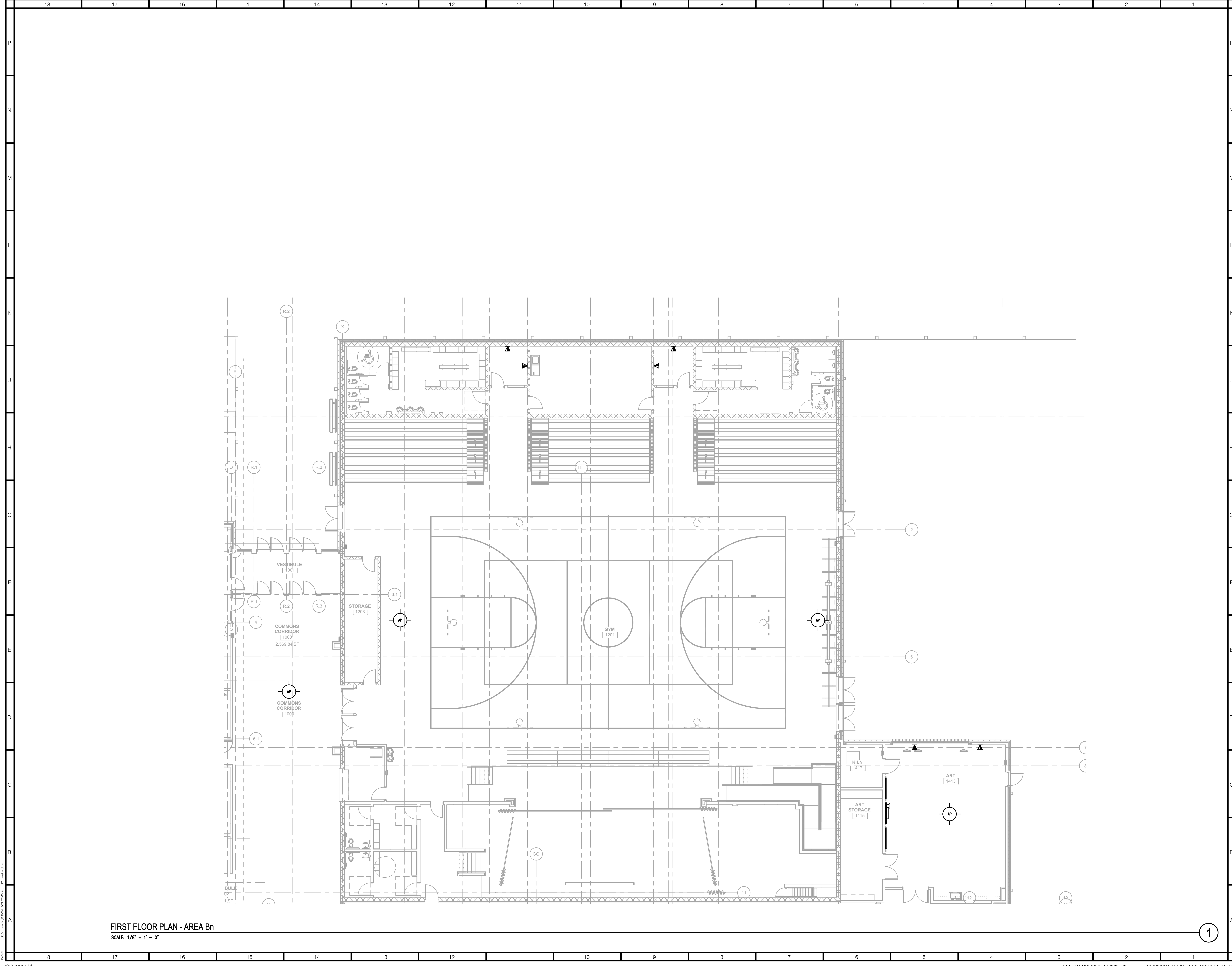
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SCALE: 1/16" = 1'-0"

SHEET NAME:
 FIRST FLOOR PLAN - AREA A

SHEET NUMBER:

TN-101A



FIRST FLOOR PLAN - AREA Bn
 SCALE: 1/8" = 1' - 0"

1

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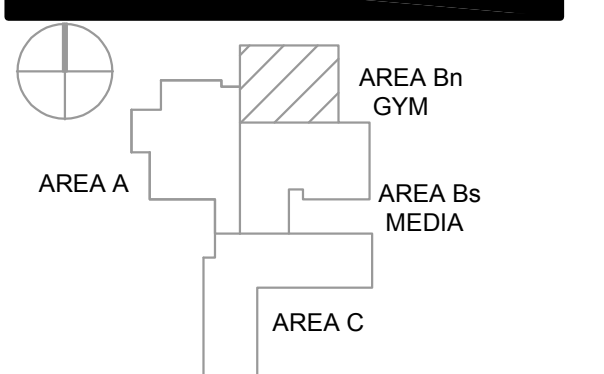
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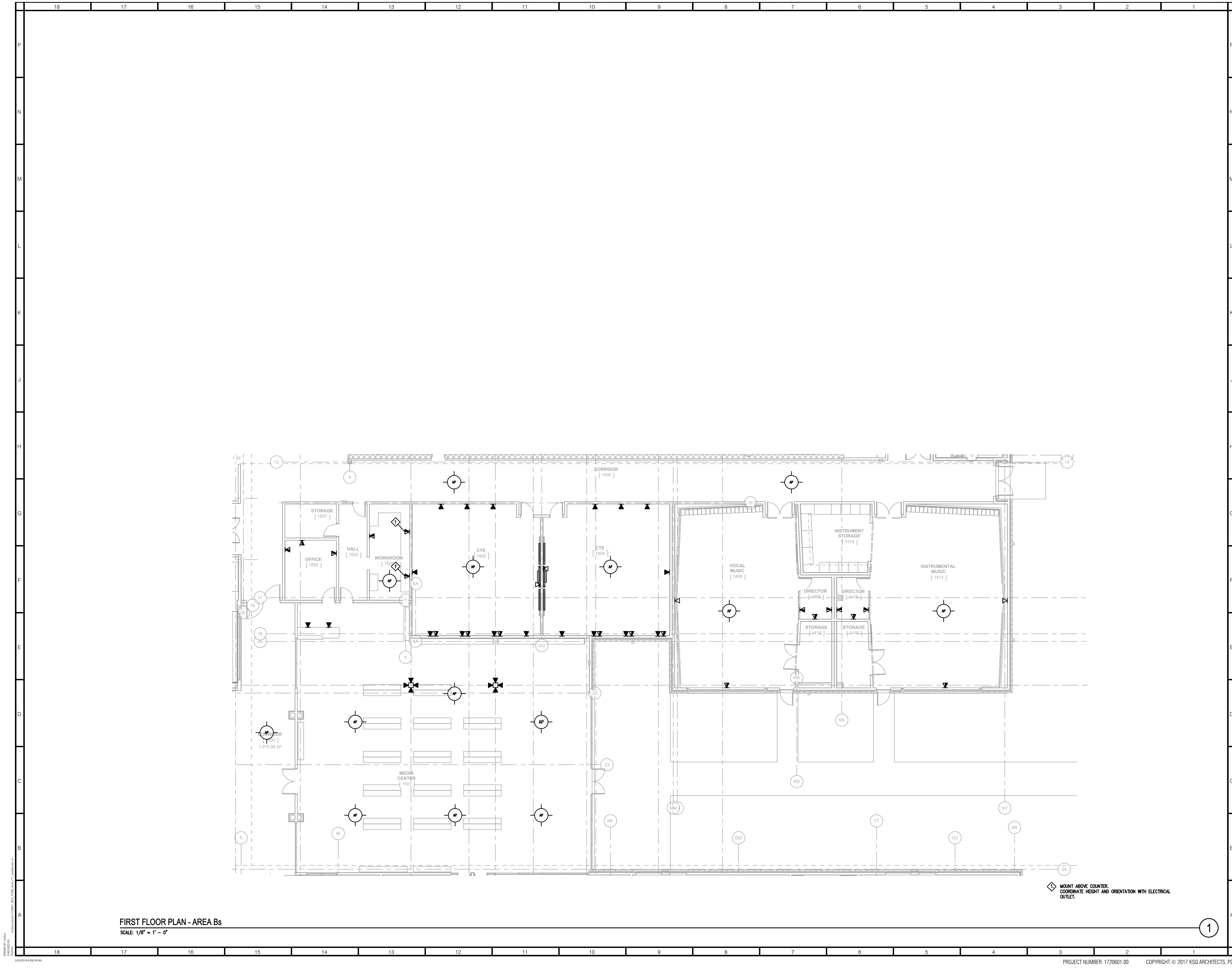
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SHEET NAME:
 FIRST FLOOR PLAN - AREA B

SHEET NUMBER:
TN-101Bn

DRAWN BY: J. ALLEN
 CHECKED BY: J. ALLEN
 02/20/18 9:08:29 AM



FIRST FLOOR PLAN - AREA Bs
SCALE: 1/8" = 1' - 0"

◆ MOUNT ABOVE COUNTER,
COORDINATE HEIGHT AND ORIENTATION WITH ELECTRICAL
OUTLET.

1

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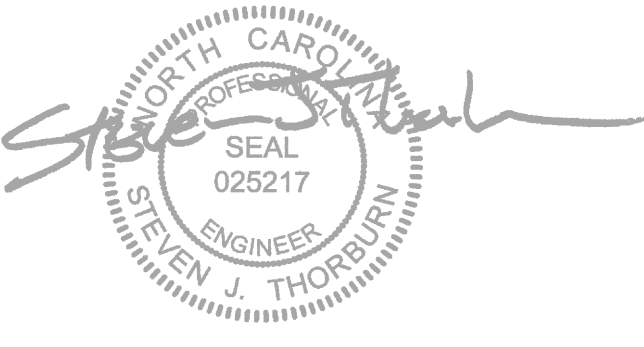
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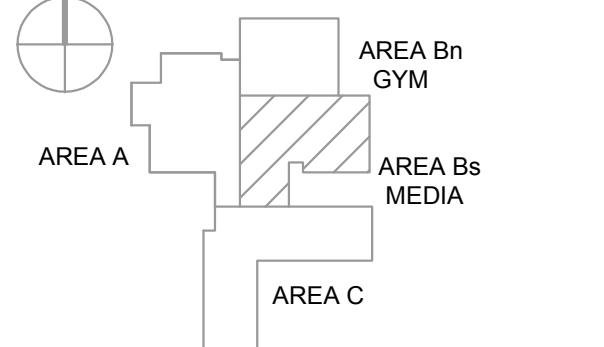
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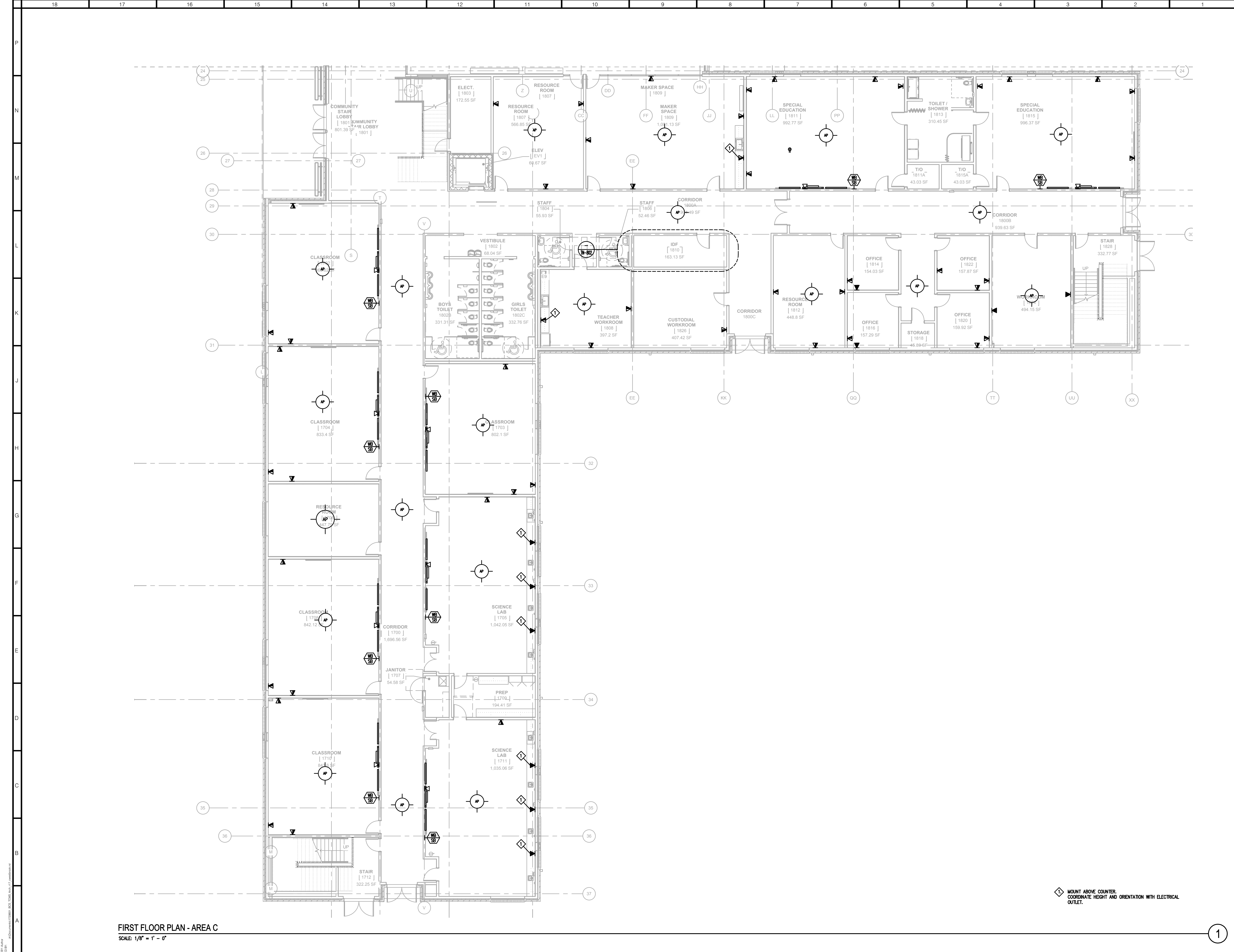


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SHEET NAME:
FIRST FLOOR PLAN - AREA B
SHEET NUMBER:

TN-101Bs



FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1' - 0"

◆ MOUNT ABOVE COUNTER, COORDINATE HEIGHT AND ORIENTATION WITH ELECTRICAL OUTLET.

1

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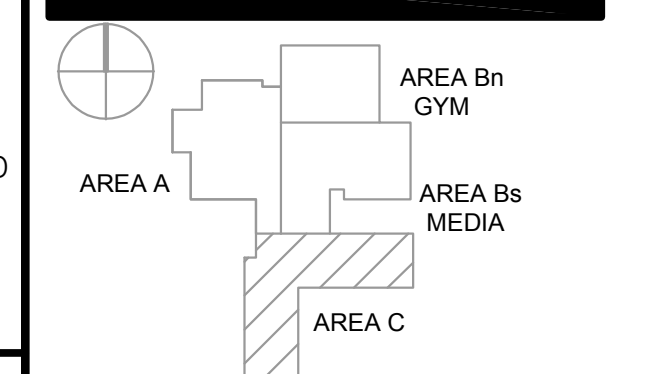
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REVISIONS		
No.	Description	Date

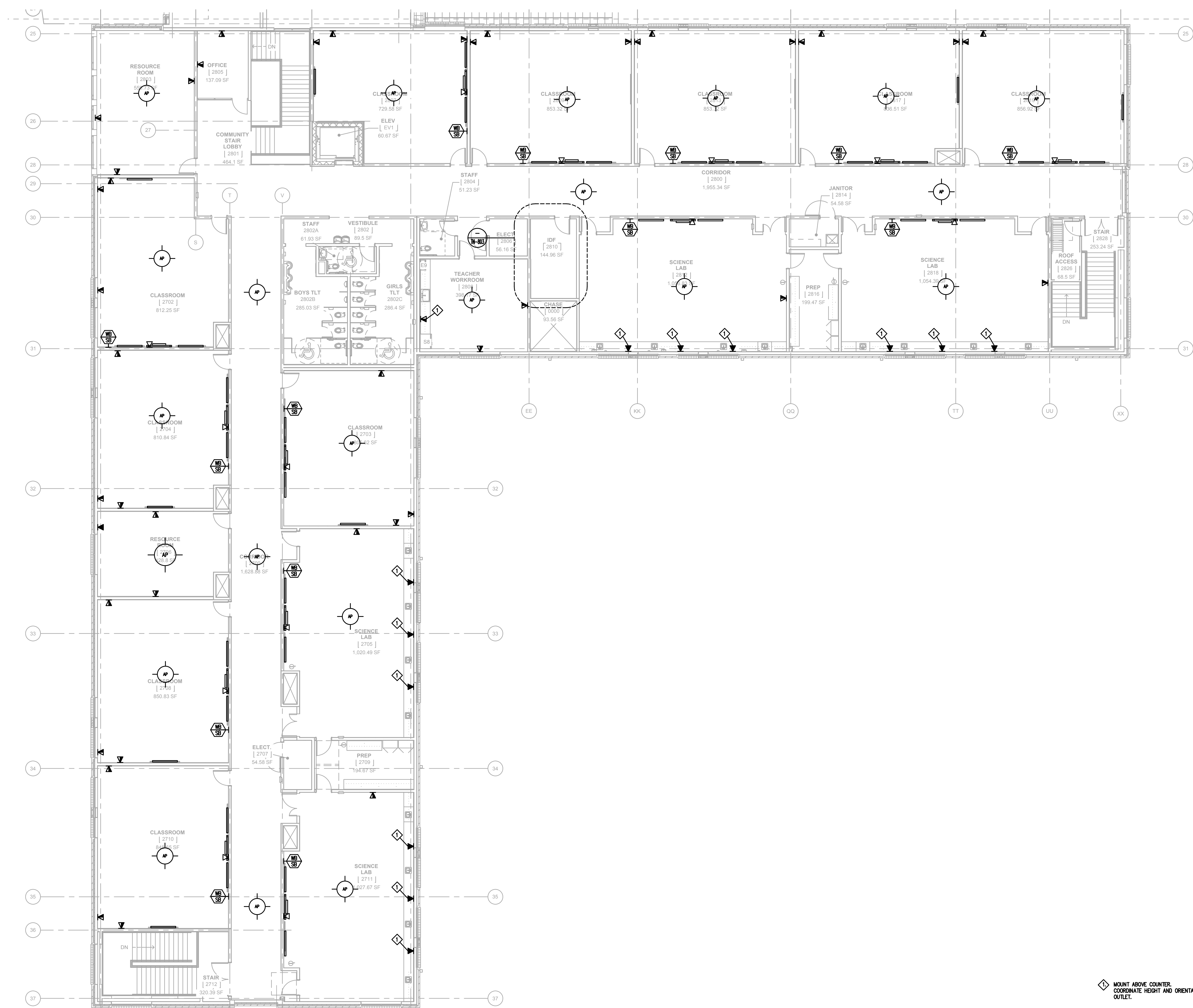
ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/16" = 1'-0"

SHEET NAME:
FIRST FLOOR PLAN - AREA C

SHEET NUMBER:

TN-101C



SECOND FLOOR PLAN - AREA C
SCALE: 1/8" = 1' - 0"

◆ MOUNT ABOVE COUNTER.
COORDINATE HEIGHT AND ORIENTATION WITH ELECTRICAL
OUTLET.

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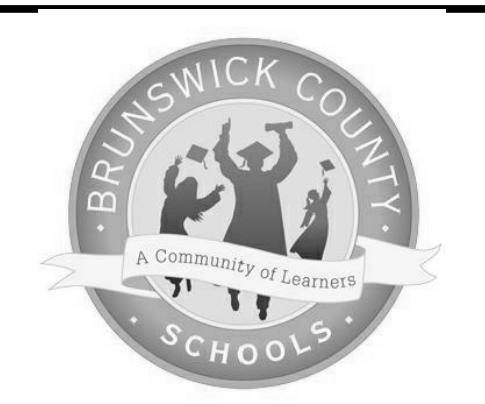
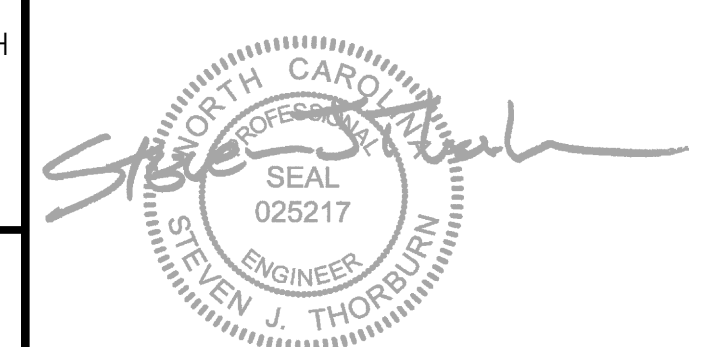
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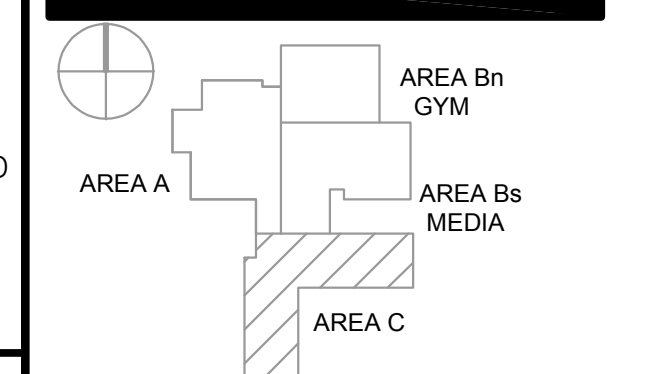
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No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME:
SECOND FLOOR PLAN - AREA C
SHEET NUMBER:

TN-102C

RU	CM	IDF Rack 1	DM	RU
1		1 RU CABLE MANAGEMENT		45
2		1 RU UNIVERSAL FIBER OPTIC ENCLOSURE		44
3		1 RU CABLE MANAGEMENT		43
4		2 RU		42
5		48 PORT PATCH BAY (SECURITY SYSTEM)	48	41
6		1 RU CABLE MANAGEMENT		40
7		2 RU		39
8		48 PORT PATCH BAY	48	38
9		1 RU CABLE MANAGEMENT		37
10		2 RU		36
11		48 PORT PATCH BAY	48	35
12		1 RU CABLE MANAGEMENT		34
13		2 RU		33
14		48 PORT PATCH BAY	48	32
15		1 RU CABLE MANAGEMENT		31
16		2 RU		30
17		48 PORT PATCH BAY	48	29
18		1 RU CABLE MANAGEMENT		28
19				27
20				26
21				25
22				24
23				23
24				22
25				21
26				20
27				19
28				18
29				17
30				16
31				15
32				14
33				13
34				12
35				11
36				10
37				9
38				8
39				7
40				6
41				5
42				4
43				3
44				2
45				1

RACK ELEVATION - IDF 1810

3

RU	CM	IDF Rack 2	DM	RU
1		1 RU CABLE MANAGEMENT		45
2		1 RU UNIVERSAL FIBER OPTIC ENCLOSURE		44
3		1 RU CABLE MANAGEMENT		43
4		2 RU		42
5		48 PORT PATCH BAY (SECURITY SYSTEM)	48	41
6		1 RU CABLE MANAGEMENT		40
7		2 RU		39
8		48 PORT PATCH BAY	48	38
9		1 RU CABLE MANAGEMENT		37
10		2 RU		36
11		48 PORT PATCH BAY	48	35
12		1 RU CABLE MANAGEMENT		34
13		2 RU		33
14		48 PORT PATCH BAY	48	32
15		1 RU CABLE MANAGEMENT		31
16		2 RU		30
17		48 PORT PATCH BAY	48	29
18		1 RU CABLE MANAGEMENT		28
19				27
20				26
21				25
22				24
23				23
24				22
25				21
26				20
27				19
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34				12
35				11
36				10
37				9
38				8
39				7
40				6
41				5
42				4
43				3
44				2
45				1

RACK ELEVATION - IDF 2810

RACK ELEVATION - MDF 1122

1

RU	CM	MDF Rack 1	DM	RU
1		1 RU CABLE MANAGEMENT		45
2		1 RU UNIVERSAL FIBER OPTIC ENCLOSURE		44
3		1 RU CABLE MANAGEMENT		43
4		2 RU		42
5		48 PORT PATCH BAY (SECURITY SYSTEM)	48	41
6		1 RU CABLE MANAGEMENT		40
7		2 RU		39
8		48 PORT PATCH BAY	48	38
9		1 RU CABLE MANAGEMENT		37
10		2 RU		36
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12		1 RU CABLE MANAGEMENT		34
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25		1 RU CABLE MANAGEMENT		21
26		2 RU		20
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28		1 RU CABLE MANAGEMENT		18
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30				16
31				15
32				14
33				13
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36				10
37				9
38				8
39				7
40				6
41				5
42				4
43				3
44				2
45				1

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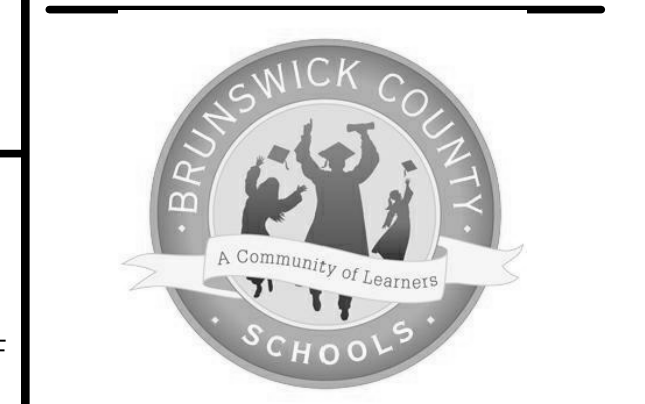
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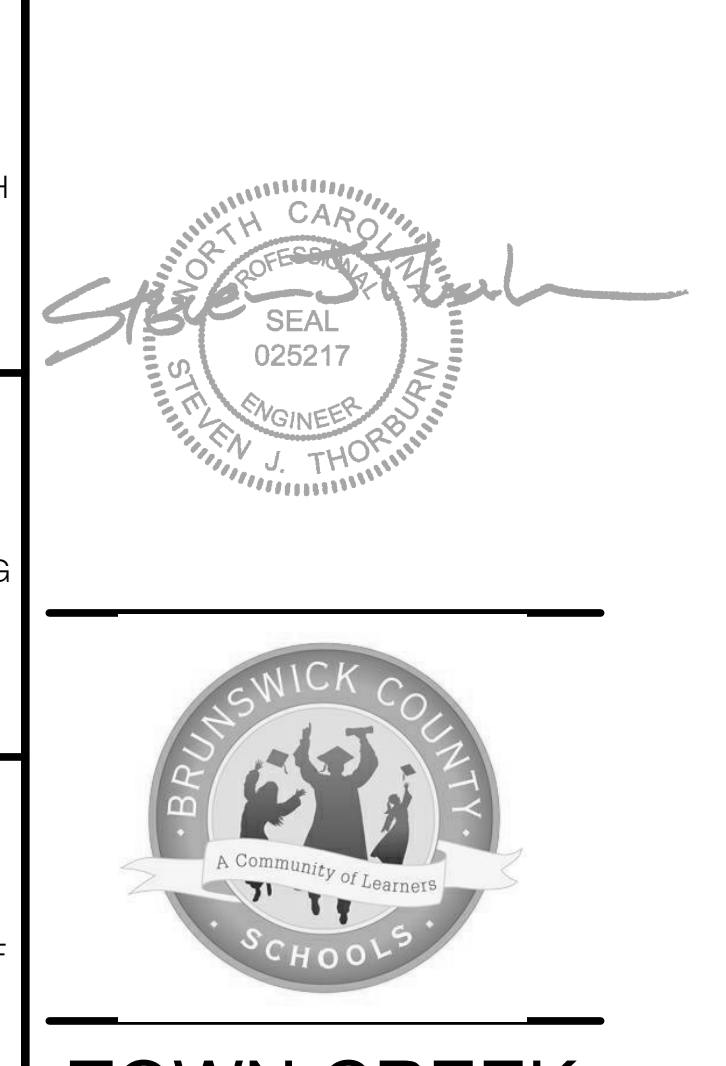
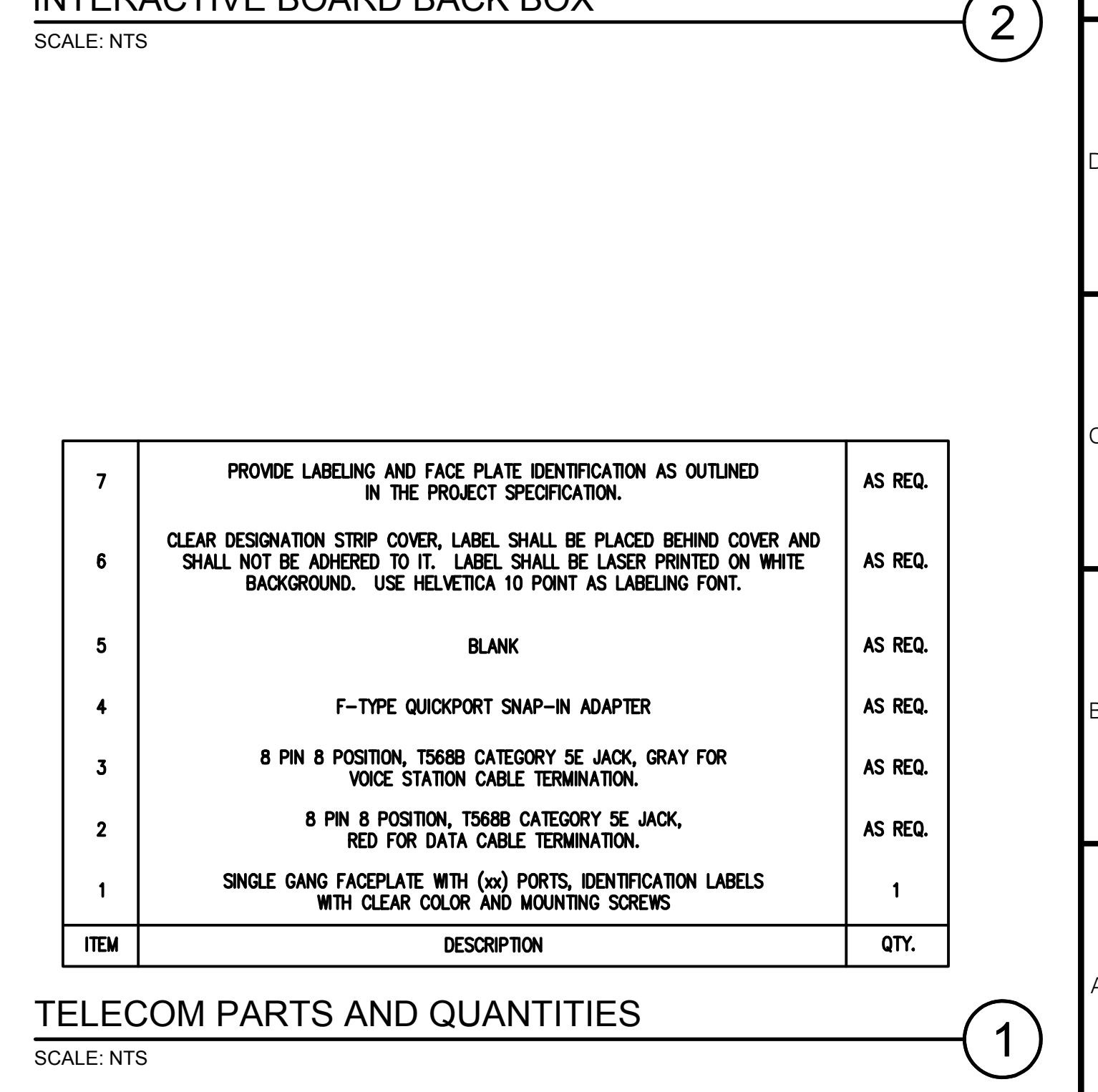
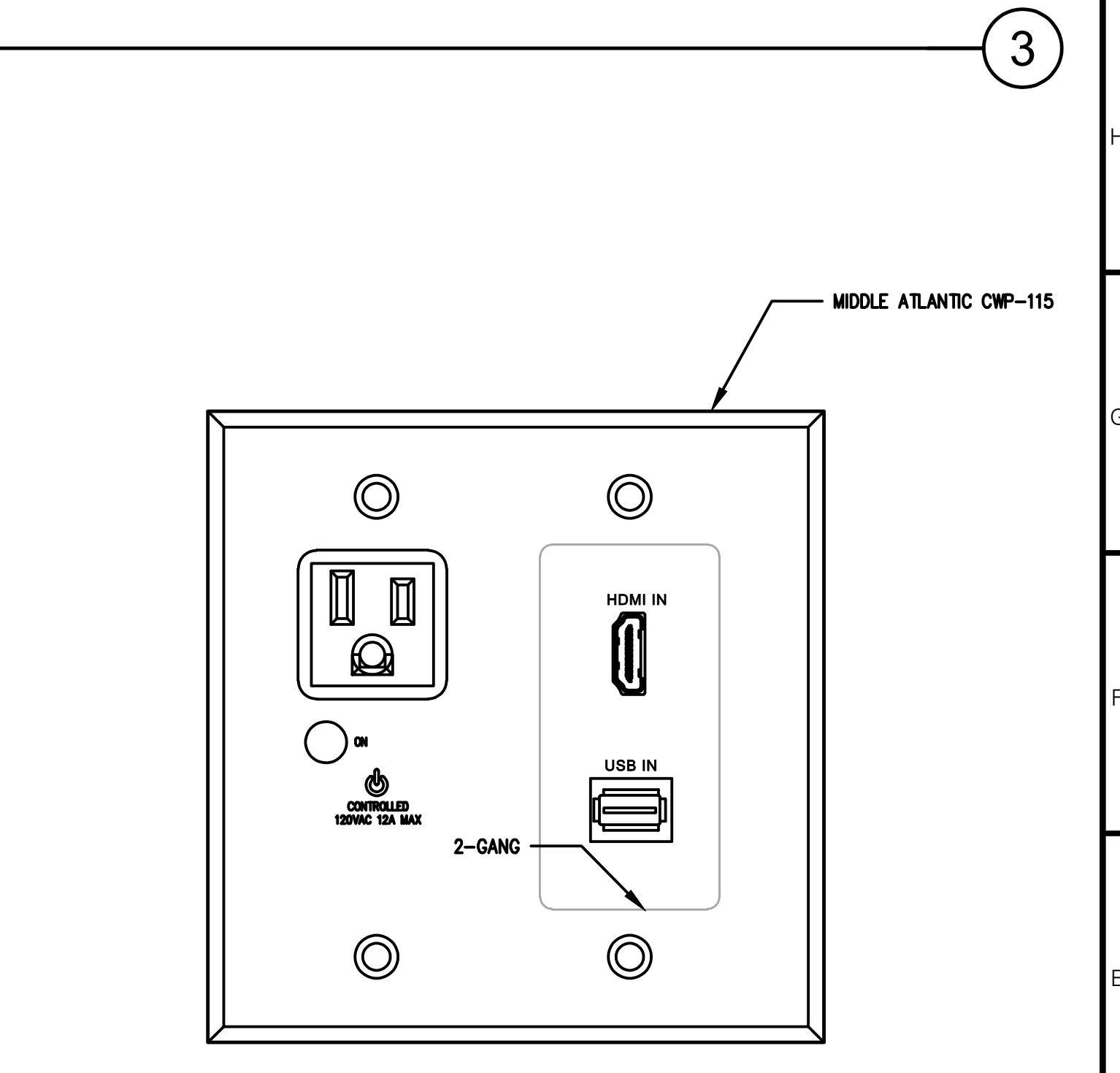
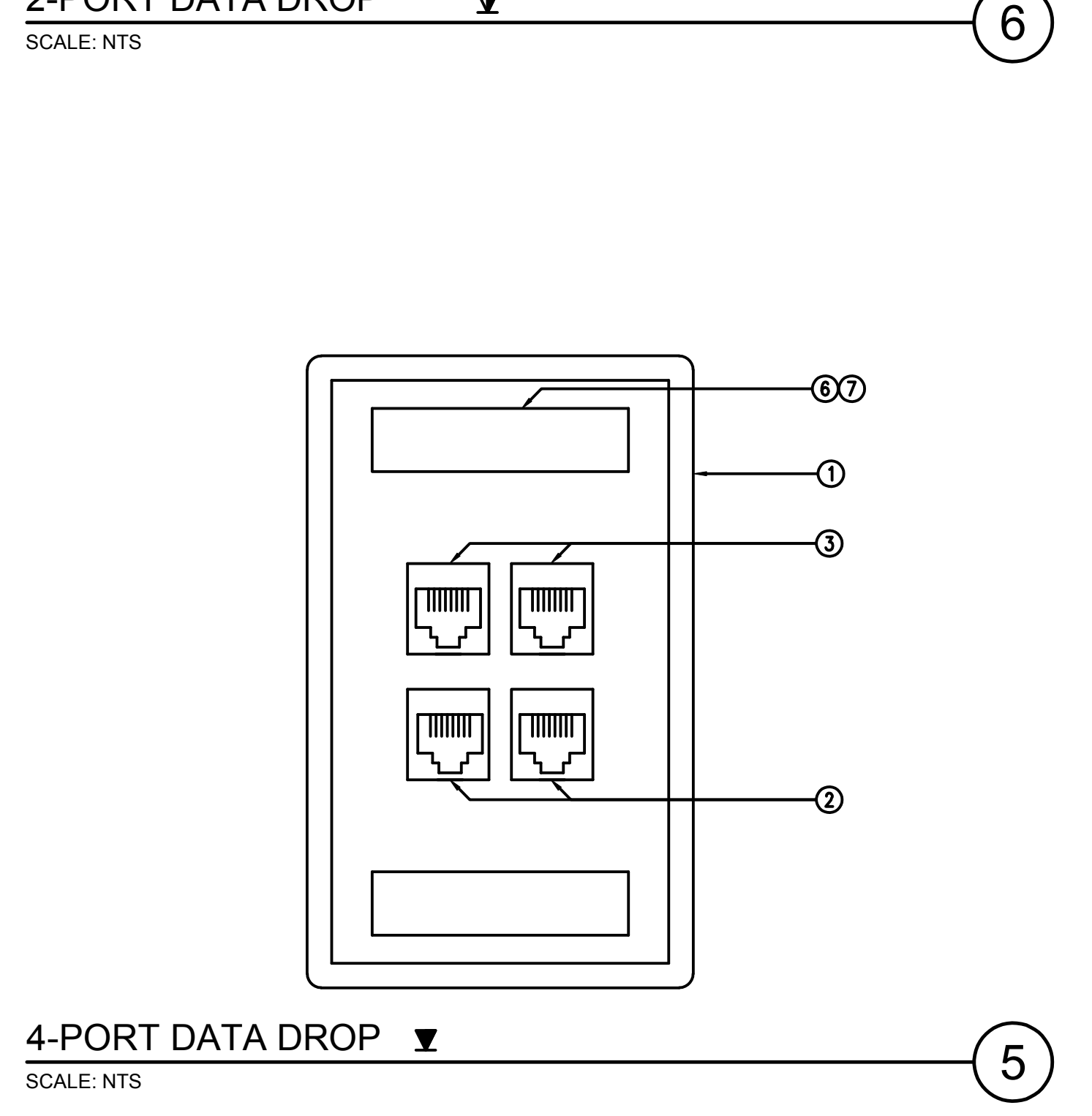
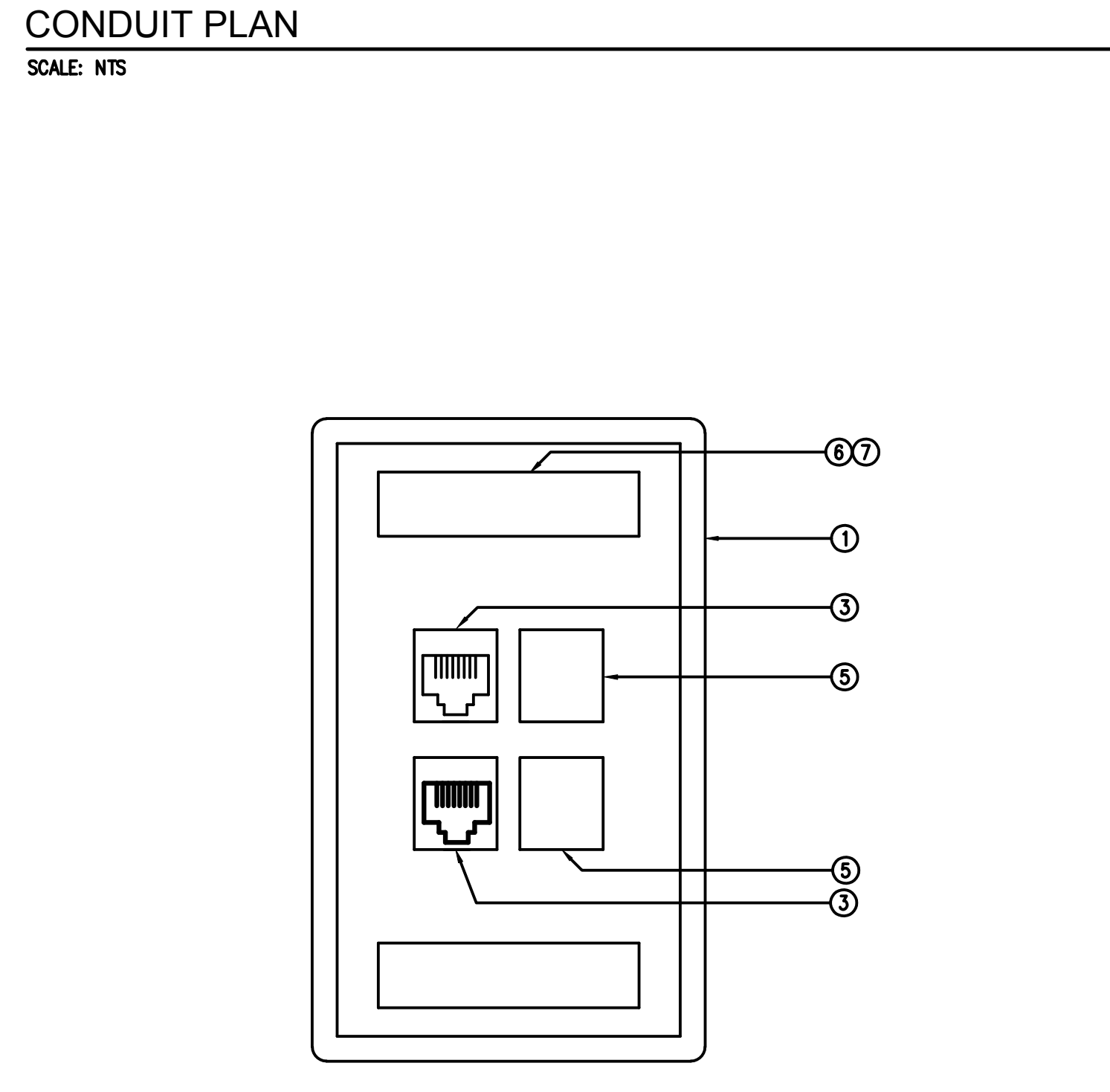
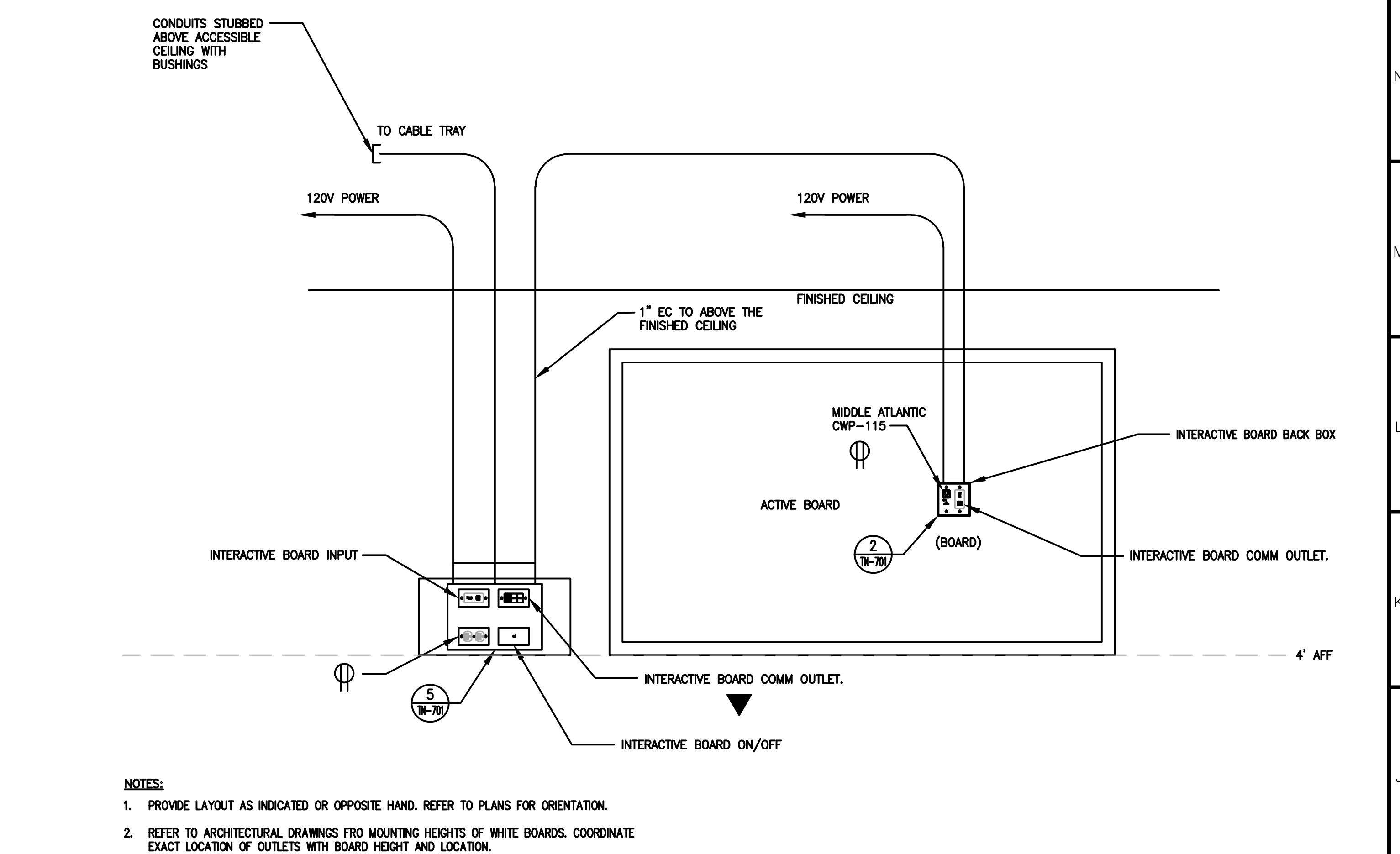
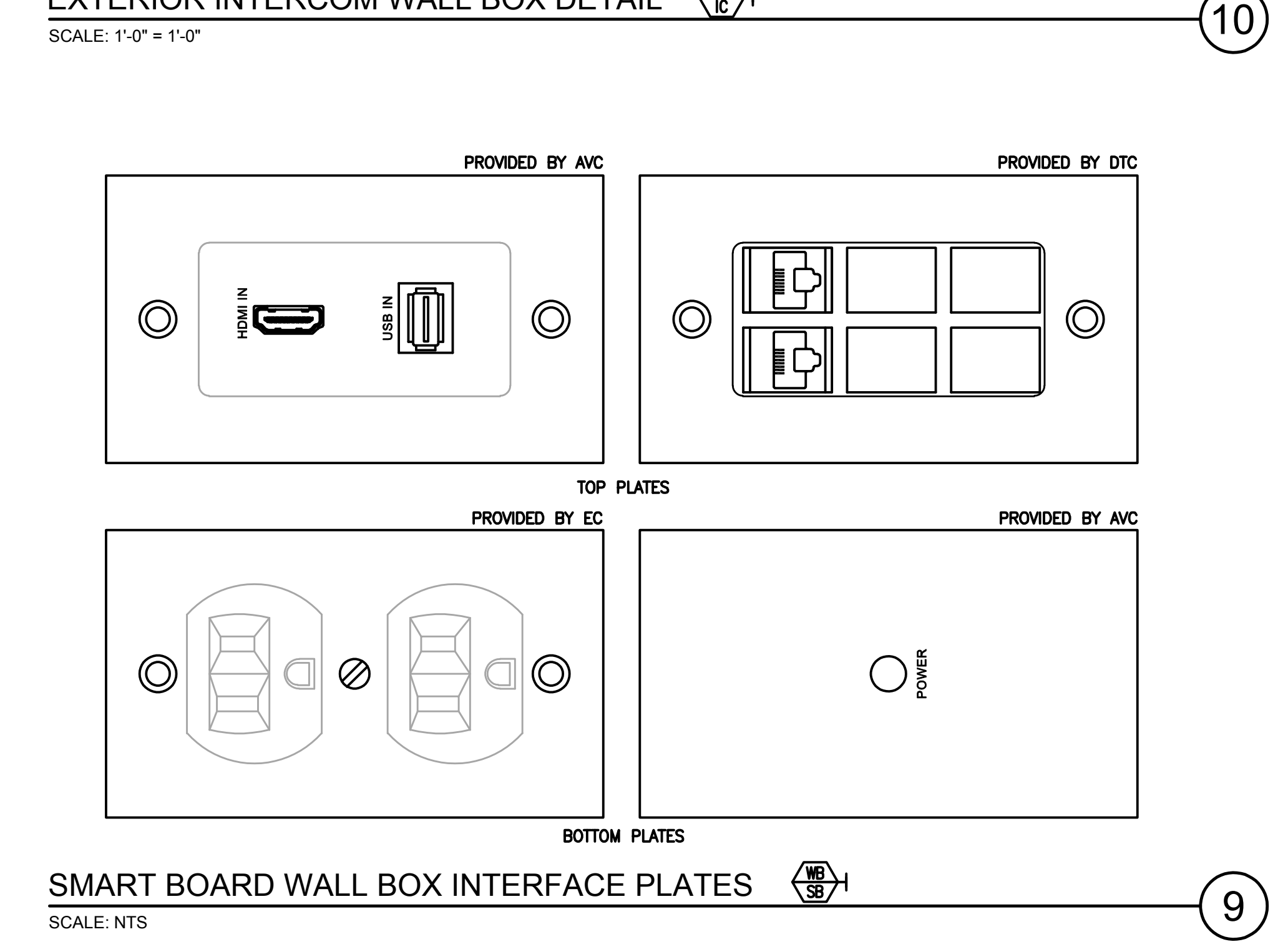
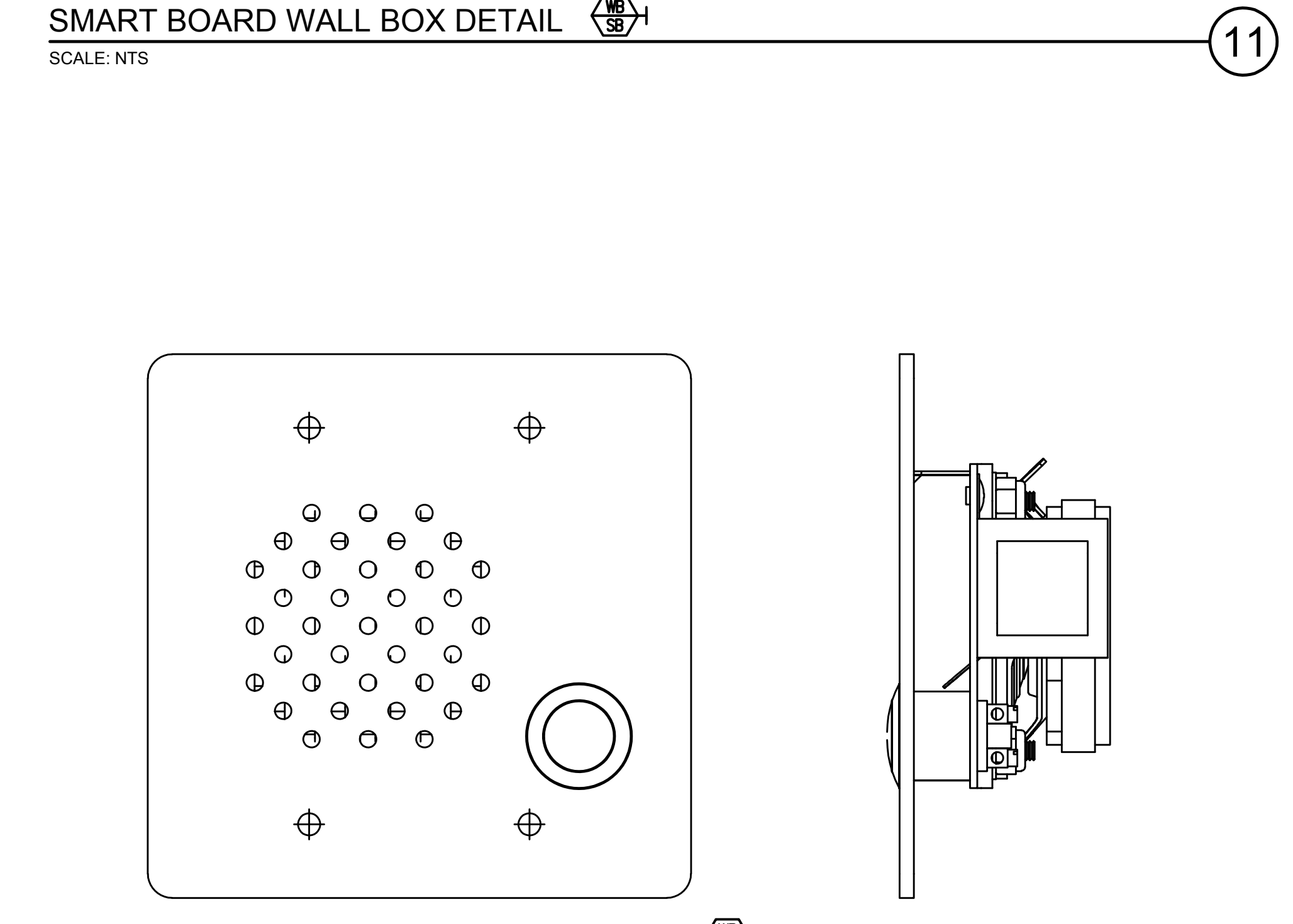
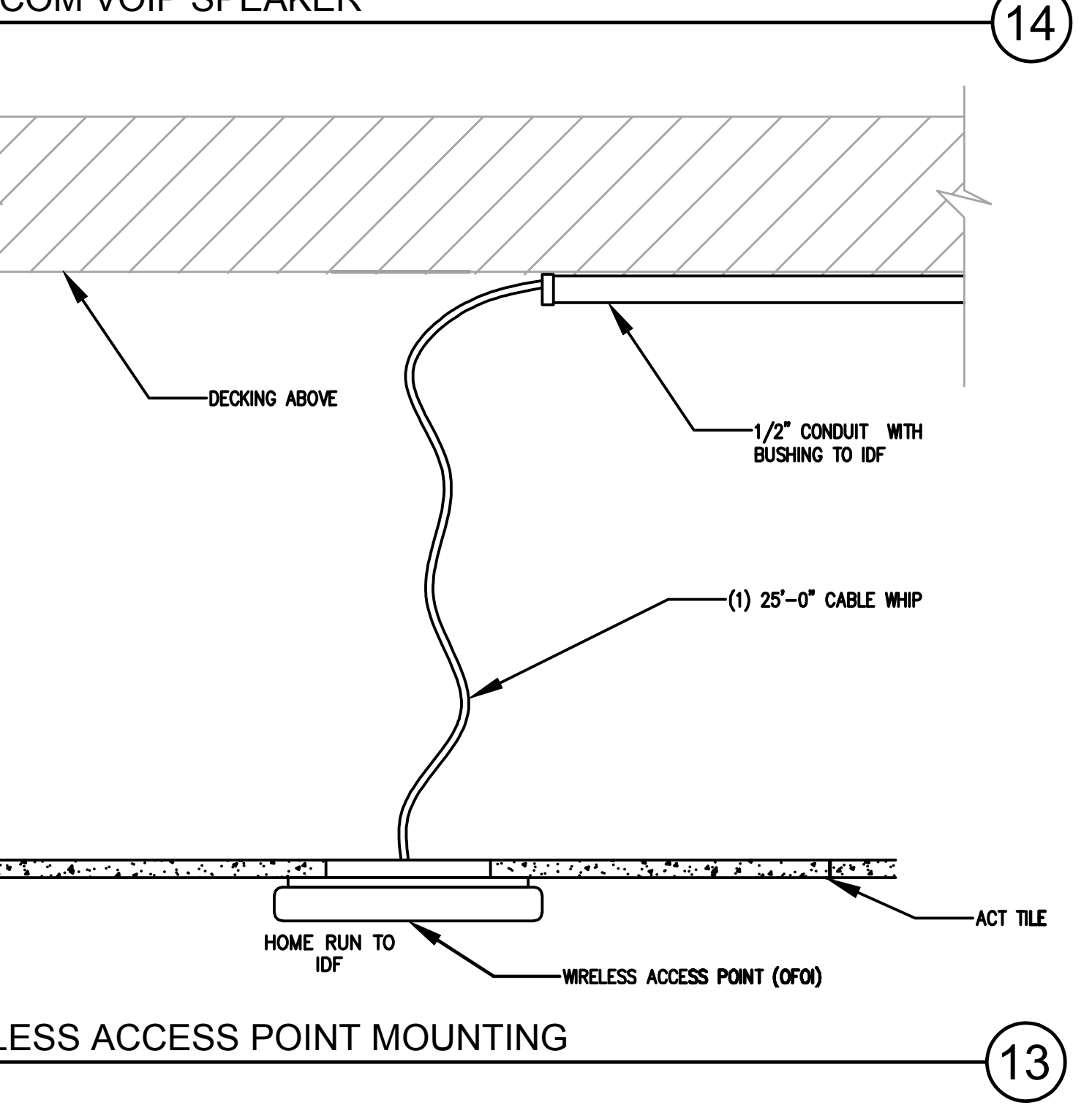
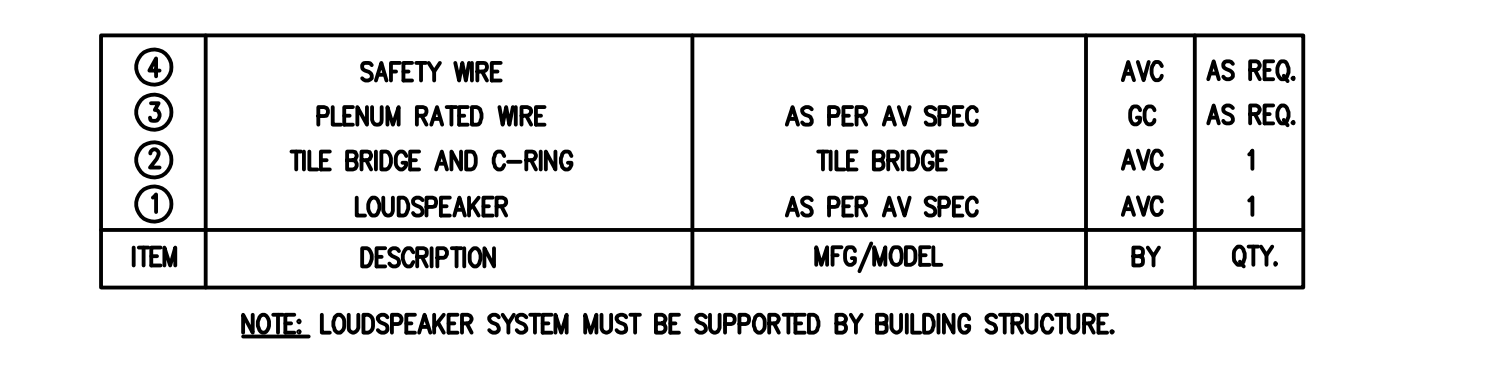
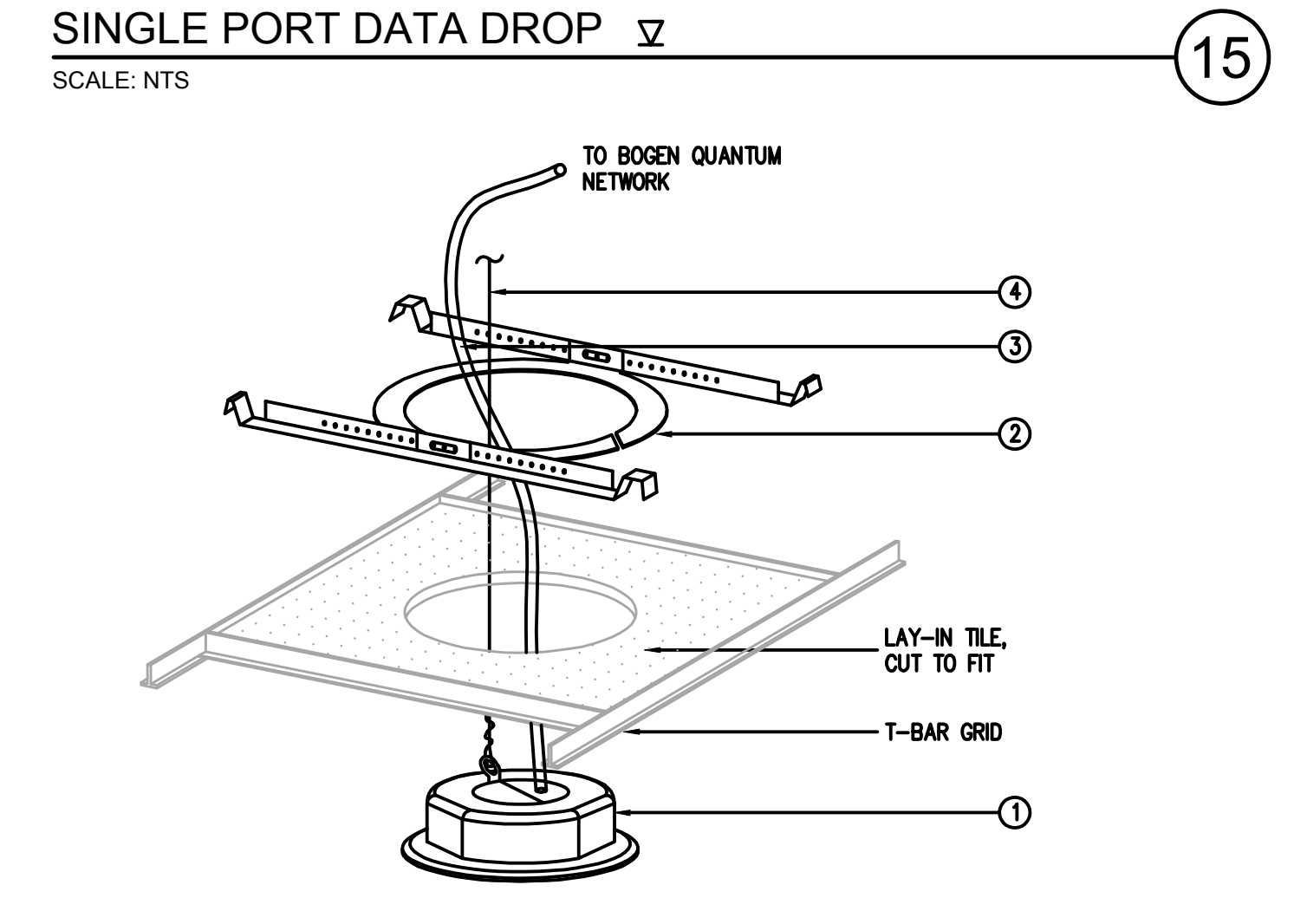
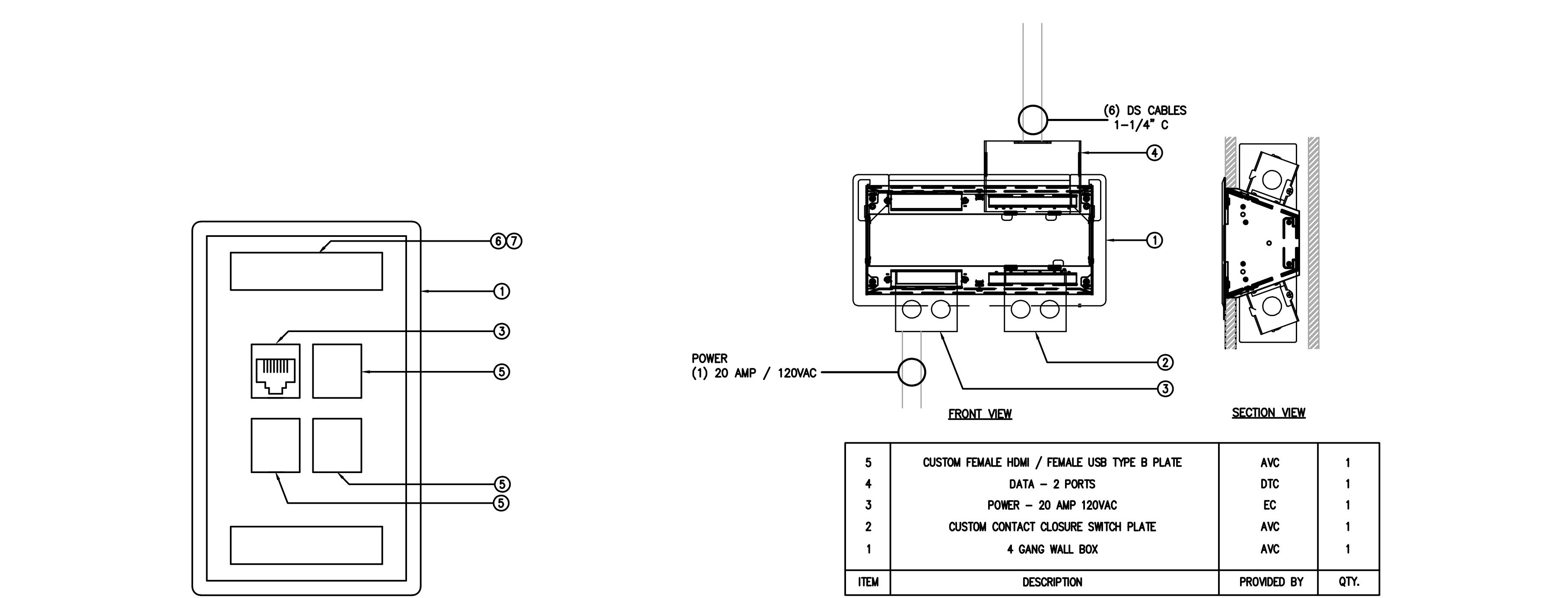
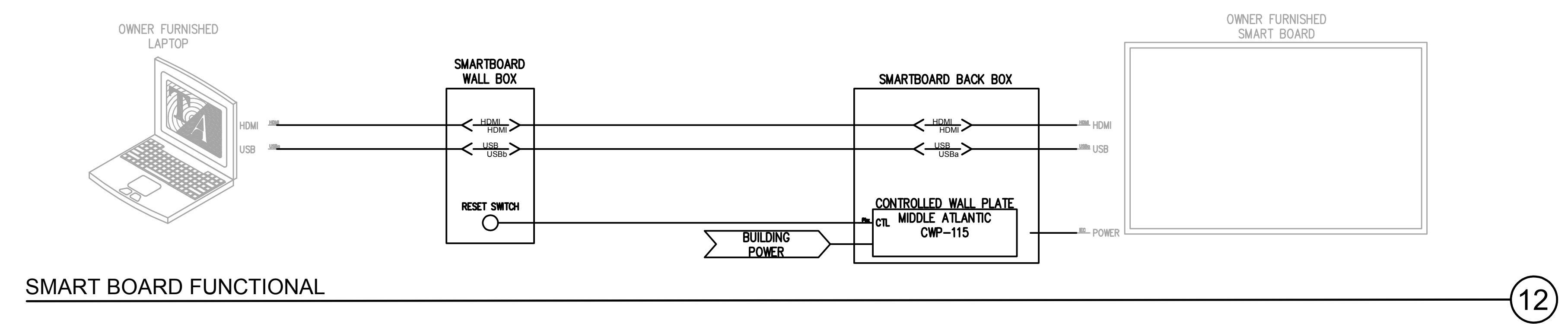
REVISIONS

No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME:
RACK ELEVATIONS AND DETAILS
SHEET NUMBER:

TN-501



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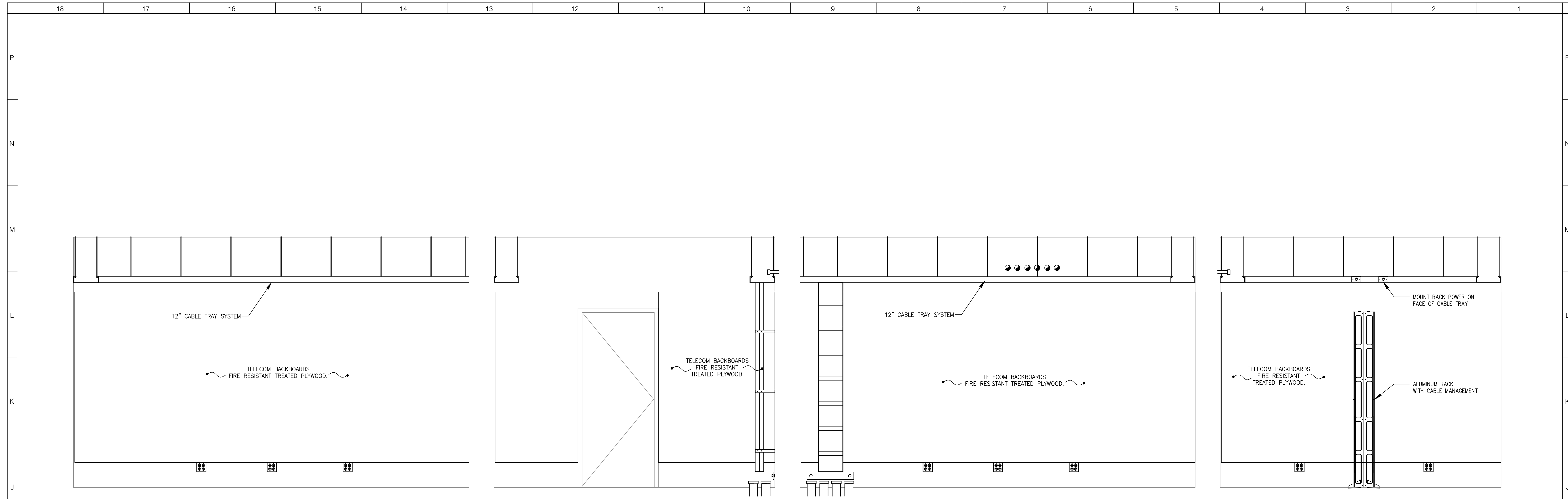
REVISIONS

No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
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 COORDINATION DETAILS

SHEET NUMBER:
TN-701



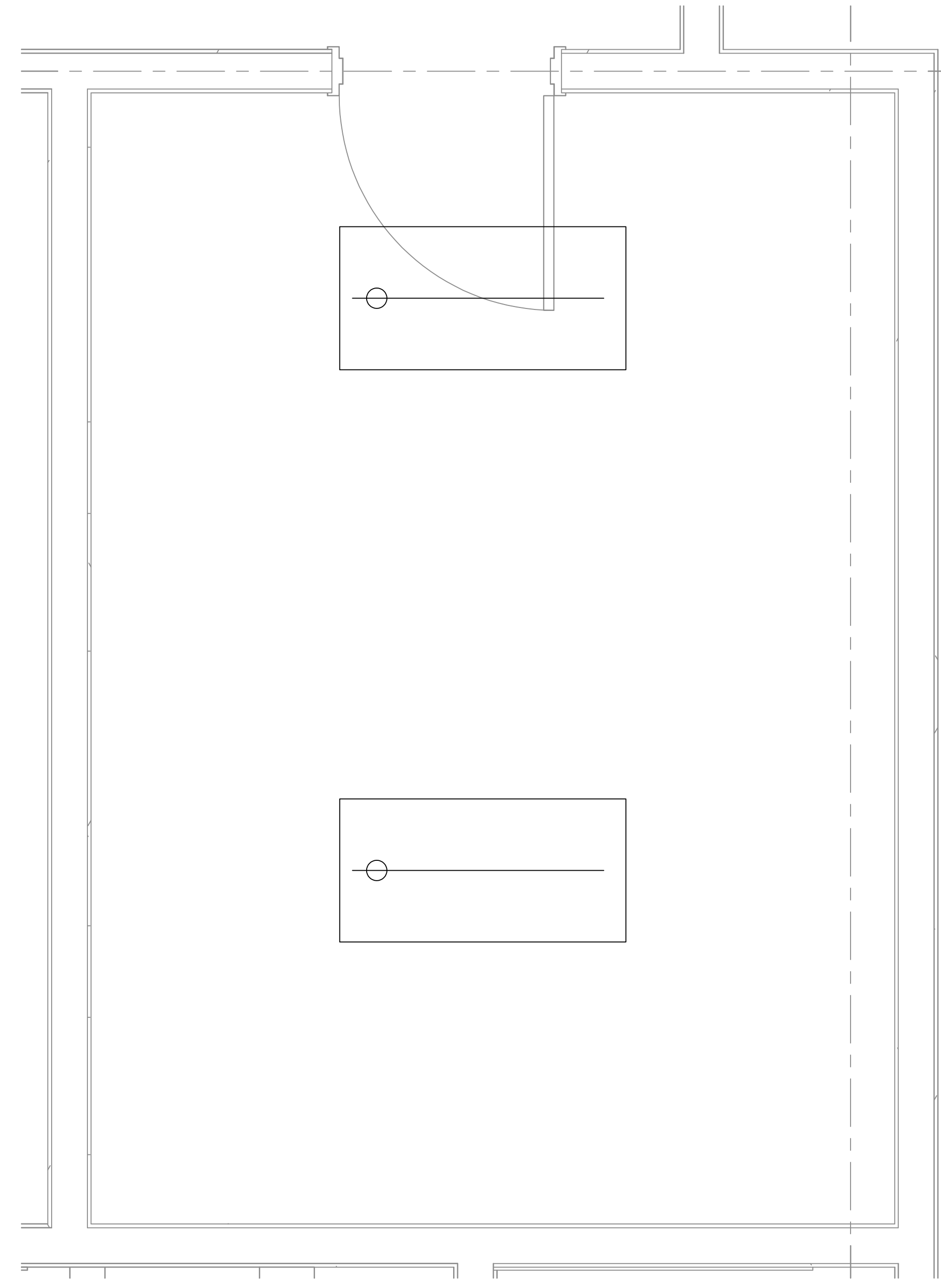
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SCALE: NTS

15 I.T. MDF (1122) - NORTH ELEVATION
SCALE: NTS

11 I.T. MDF (1122) - EAST ELEVATION
SCALE: NTS

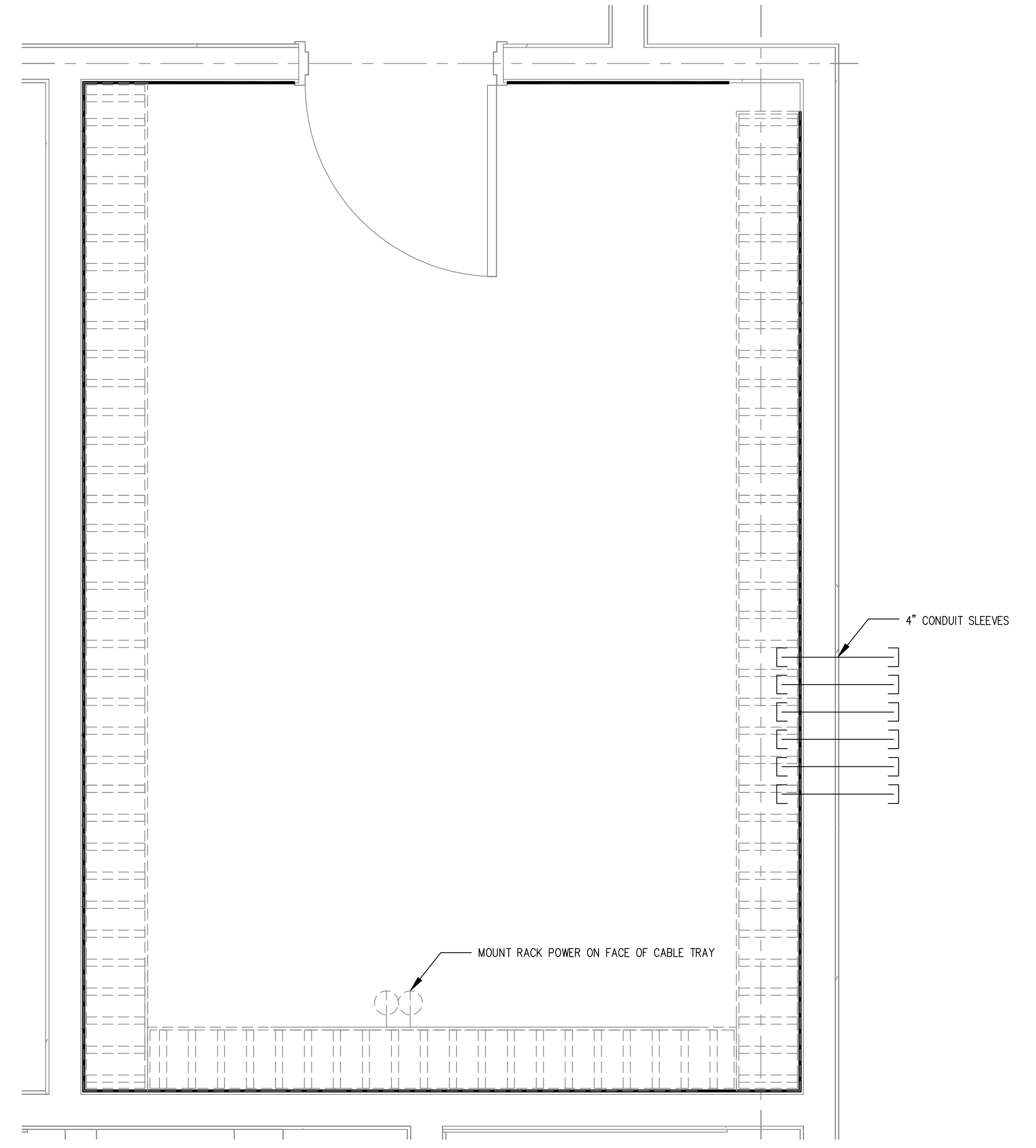
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SCALE: NTS

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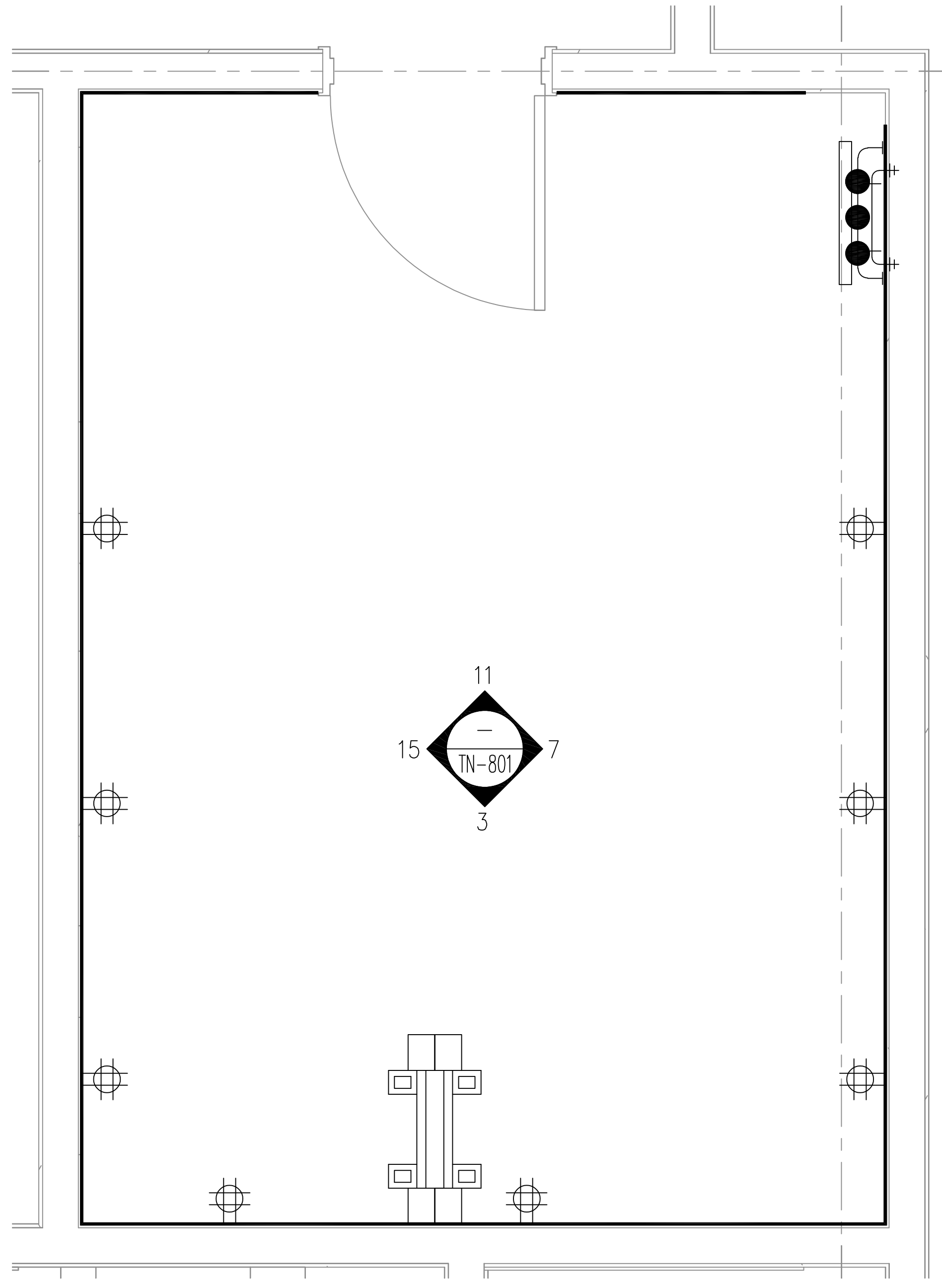
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SCALE: 3/4" = 1'-0"

13



I.T. MDF (1122) - ABOVE RACK
SCALE: 3/4" = 1'-0"

5



I.T. MDF (1122) - FLOOR PLAN
SCALE: 3/4" = 1'-0"

1

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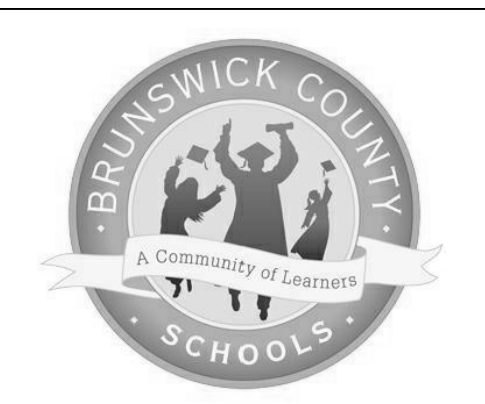
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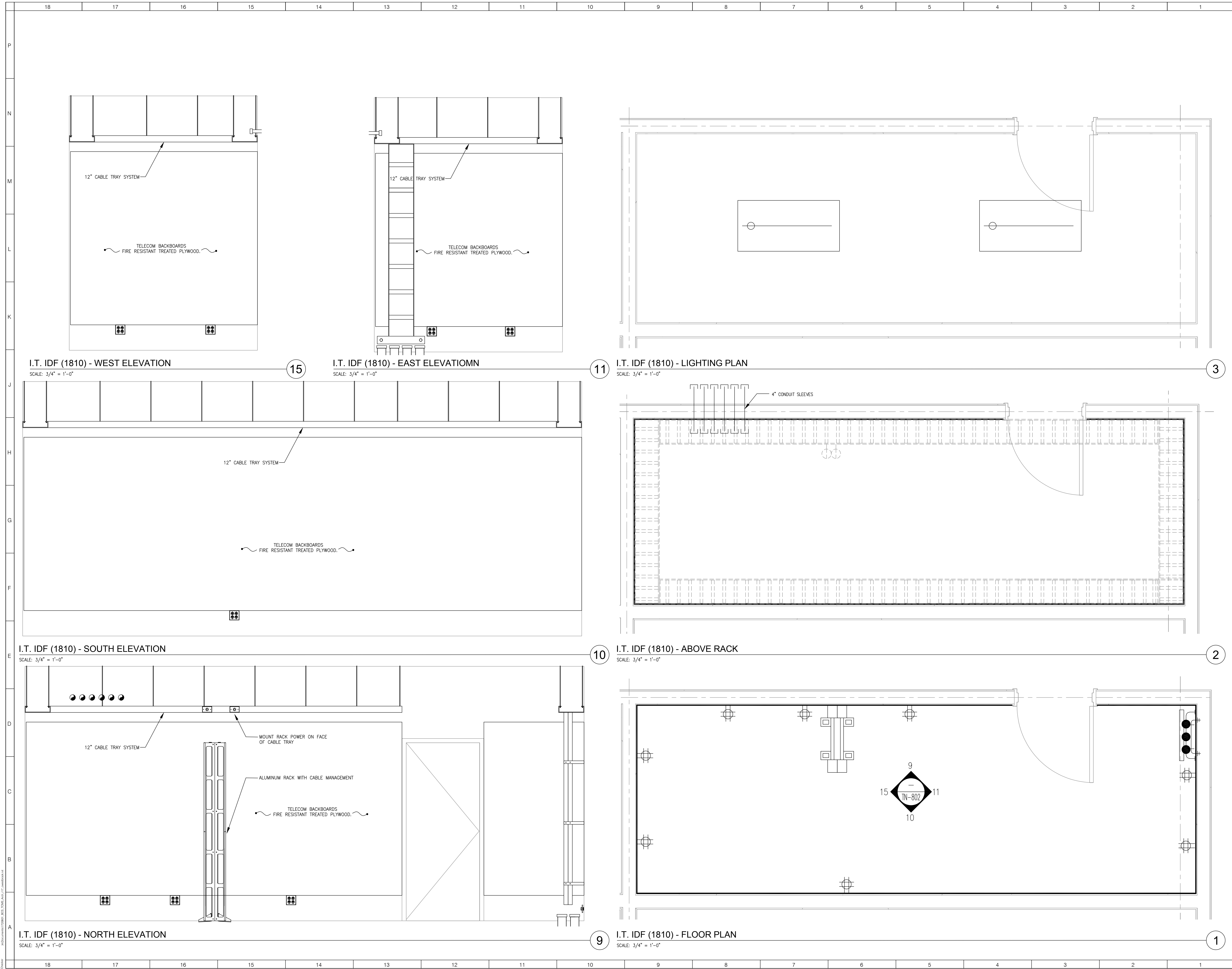
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REVISIONS

No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME:
MDF ROOM (1122)
ENLARGED PLANS
SHEET NUMBER:

TN-801



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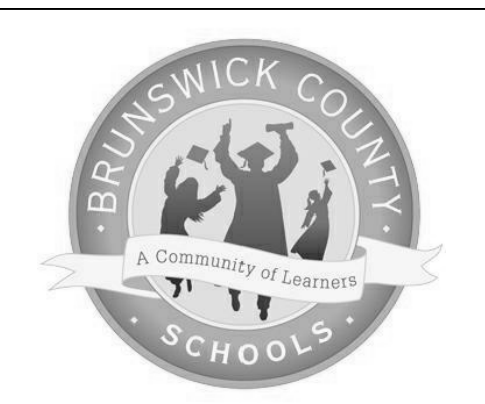
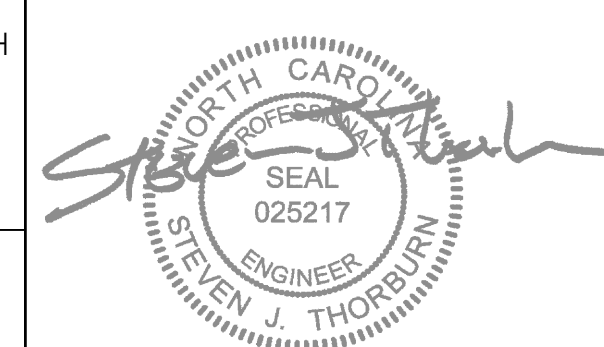
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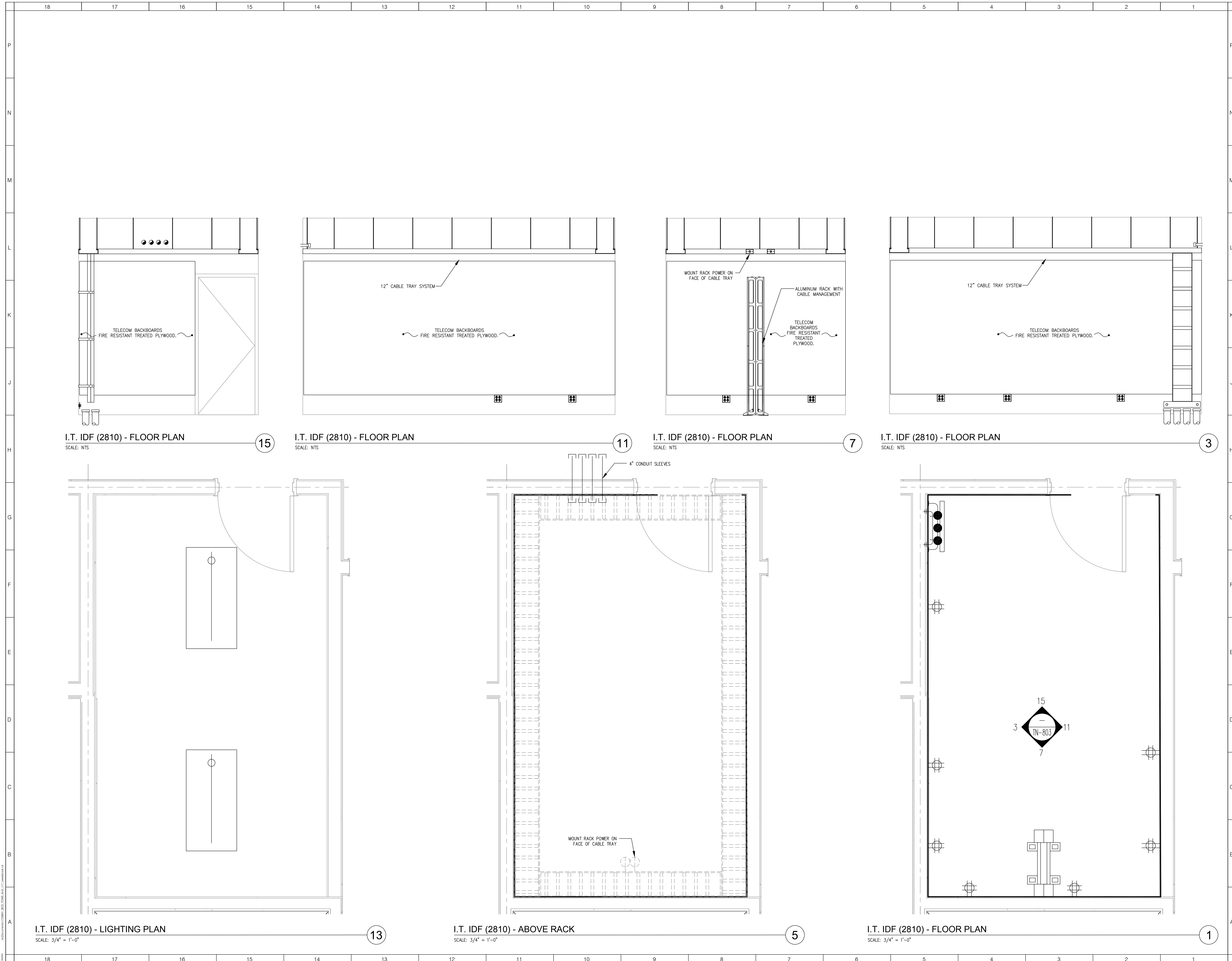
No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME: IDF ROOM (1810) ENLARGED PLANS

SHEET NUMBER: TN-802

DRAWN BY: K. HAY
CHECKED BY: J. HAY
DATE: 05/24/2018 9:08:29 AM



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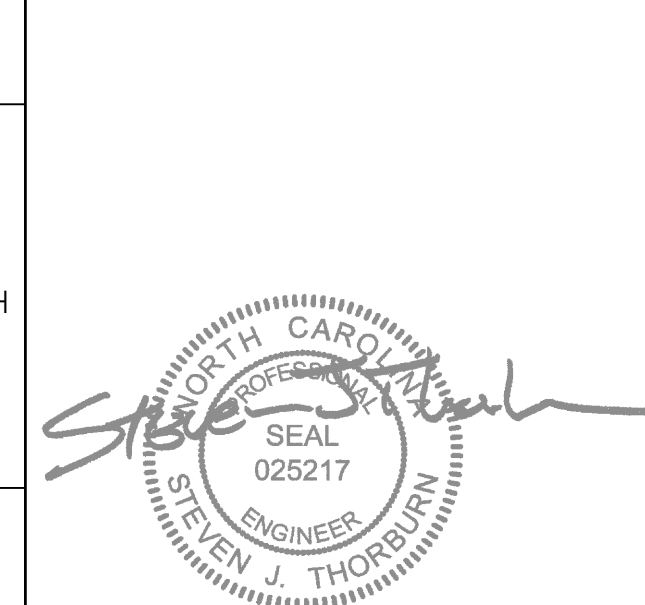
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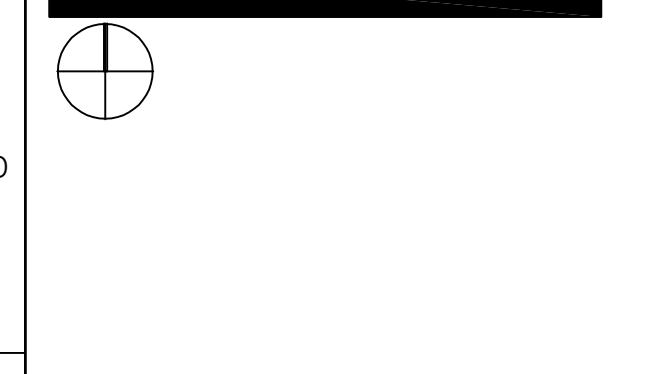
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REVISIONS

No.	Description	Date

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
SHEET NAME: IDF ROOM (2810) ENLARGED PLANS
SHEET NUMBER:

TN-803