

TELECOMMUNICATIONS DRAWING LIST						
NUMBER	SHEET TITLE	100% DD - 08/30/19	50% CD SET - 12/13/2019	CD PROGRESS SET - 03/20/2020	ISSUED FOR CONSTRUCTION - 05/01/2020	FINAL GMP SET - 12/18/2020
TELECOMMUNICATIONS						
TN-001	TELECOM COVER SHEET	X	X	X	X	X
TN-100	TELECOM SITE PLAN	X	X	X	X	X
TN-101	TELECOM CONDUIT RISER AND BACKBONE CABLING	X	X	X	X	X
TN-201	TELECOM PLAN INN LEVEL 1/2	X	X	X	X	X
TN-203	TELECOM PLAN INN LEVEL 3	X	X	X	X	X
TN-204	TELECOM PLAN INSTITUTE LEVEL 1	X	X	X	X	X
TN-205	TELECOM PLAN INSTITUTE LEVEL 2	X	X	X	X	X
TN-301	TELECOM RCP INN LEVEL 1/2	X	X	X	X	X
TN-303	TELECOM RCP INN LEVEL 3	X	X	X	X	X
TN-304	TELECOM RCP INSTITUTE LEVEL 1	X	X	X	X	X
TN-305	TELECOM RCP INSTITUTE LEVEL 2	X	X	X	X	X
TN-601	TELECOM ENLARGED PLANS	X	X	X	X	X
TN-701	TELECOM EQUIPMENT DETAILS	X	X	X	X	X
TN-702	TELECOM EQUIPMENT DETAILS	X	X	X	X	X

TN - SYMBOLS LEGEND		TN - ELECTRICAL SYMBOLS LEGEND
SYMBOL	DESCRIPTION	DESCRIPTION
	FLOOR MOUNTED TELECOMMUNICATIONS OUTLET (FLOOR BOX); (1) CATEGORY 6A UTP CABLES AND (1) RG-6 COAX CABLE TO THE DESIGNATED IT ROOM. PROVIDE COMPATIBLE FACEPLATE AS SPECIFIED AND APPROVED FOR COLOR BY ARCHITECT. COORDINATE WITH ELECTRICAL AND AV CONTRACTORS.	FLOOR MOUNTED TELECOMMUNICATIONS OUTLET (FLOOR BOX). PROVIDE CONDUIT THROUGH FLOOR, UP THROUGH NEAREST WALL PARTITION TO THE NEAREST ACCESSIBLE CEILING. PROVIDE 1" CONDUIT FOR OUTLETS WITH UP TO FOUR CABLES AND 1-1/4" CONDUIT FOR OUTLETS WITH FIVE TO EIGHT CABLES.
	FLOOR MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL EQUIPMENT RACK; (2) CATEGORY 6A UTP CABLES TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES IF DIFFERENT THAN (2). COORDINATE WITH TA-SERIES DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF AV RACK. OUTLET MOUNTED WITHIN CREDENZAS OR MILLWORK (UON).	FLOOR MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL EQUIPMENT RACK. PROVIDE DOUBLE GANG BACK BOX 2-1/2" DEEP (MIN) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP. PROVIDE 1" CONDUIT FOR OUTLET WITH UP TO FOUR CABLES AND 1 1/4" CONDUIT FOR OUTLETS WITH FOUR (4) TO EIGHT (8) CABLES. COORDINATE WITH TA-SERIES DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF AV RACK. OUTLET MOUNTED WITHIN CREDENZAS OR MILLWORK (UON).
	STANDARD WALL MOUNTED TELECOMMUNICATIONS OUTLET; (2) CATEGORY 6A UTP CABLES TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES IF DIFFERENT THAN (2)	STANDARD WALL MOUNTED TELECOMMUNICATIONS OUTLET. PROVIDE DOUBLE GANG BACK BOX 2-1/2" DEEP (MIN) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE 1" CONDUIT FOR OUTLETS WITH UP TO FOUR CABLES AND 1-1/4" CONDUIT FOR OUTLETS WITH FIVE TO EIGHT CABLES.
	WALL MOUNTED TELEPHONE OUTLET; (1) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM. PROVIDE FACEPLATE WITH MOUNTING STUDS.	WALL MOUNTED TELEPHONE OUTLET; PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING.
	STANDARD FURNITURE MOUNTED TELECOMMUNICATIONS OUTLET; (2) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM. (#) REPRESENTS CABLES OTHER THAN 2. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND FURNITURE VENDOR FOR ROUTING CABLES AND FACEPLATE.	NA
	TELECOMMUNICATIONS OUTLET FOR INTERCOM; (1) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM. COORDINATE WITH SECURITY VENDOR.	TELECOMMUNICATIONS OUTLET FOR INTERCOM. PROVIDE DOUBLE GANG BACK BOX 2-1/2" DEEP (MIN) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING.
	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL DISPLAYS; (1) CATEGORY 6A UTP CABLES AND (1) RG-6 COAX CABLE TO THE DESIGNATED IT ROOM. COORDINATE LOCATION AND MOUNTING DETAILS WITH TA-SERIES DRAWINGS.	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL DISPLAYS. PROVIDE SINGLE GANG BACK BOX (MIN 2-1/2" DEEP) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE 1" CONDUIT FOR OUTLETS WITH UP TO FOUR CABLES AND 1-1/4" CONDUIT FOR OUTLETS WITH FIVE TO EIGHT CABLES. COORDINATE LOCATION AND MOUNTING DETAILS WITH TA-SERIES DRAWINGS.
	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL EQUIPMENT RACK; (4) CATEGORY 6A UTP CABLES TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES. COORDINATE WITH TA-SERIES DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF AV RACK. OUTLET MOUNTED WITHIN CREDENZAS OR MILLWORK (UON).	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL EQUIPMENT RACK. PROVIDE DOUBLE GANG BACK BOX 2-1/2" DEEP (MIN) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP. PROVIDE 1" CONDUIT FOR OUTLET WITH UP TO FOUR CABLES AND 1 1/4" CONDUIT FOR OUTLETS WITH FOUR (4) TO EIGHT (8) CABLES. COORDINATE WITH TA-SERIES DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF AV RACK. OUTLET MOUNTED WITHIN CREDENZAS OR MILLWORK (UON).
	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR SECURITY CAMERAS; (1) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES.	WALL MOUNTED TELECOMMUNICATIONS OUTLET FOR SECURITY CAMERAS. PROVIDE SINGLE GANG PLENUM-RATED BACK BOX WITH 1" CONDUIT.
	CEILING MOUNTED TELECOMMUNICATIONS OUTLET; (2) CATEGORY 6A UTP CABLES TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES IF DIFFERENT THAN (2)	CEILING MOUNTED TELECOMMUNICATIONS OUTLET. PROVIDE DOUBLE GANG BACK BOX 2-1/2" DEEP (MIN) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE 1" CONDUIT FOR OUTLETS WITH UP TO FOUR CABLES AND 1-1/4" CONDUIT FOR OUTLETS WITH FIVE TO EIGHT CABLES.
	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL DISPLAYS; (2) CATEGORY 6A UTP CABLES TO THE DESIGNATED IT ROOM. (#) REPRESENTS NUMBER OF CABLES IF DIFFERENT THAN (2). COORDINATE LOCATION AND MOUNTING DETAILS WITH TA-SERIES DRAWINGS.	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR AUDIOVISUAL DISPLAYS. PROVIDE SINGLE GANG BACK BOX (MIN 2-1/2" DEEP) WITH SINGLE GANG REDUCER PLATE AND CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE 1" CONDUIT FOR OUTLETS WITH UP TO FOUR CABLES AND 1-1/4" CONDUIT FOR OUTLETS WITH FIVE TO EIGHT CABLES. COORDINATE LOCATION AND MOUNTING DETAILS WITH TA-SERIES DRAWINGS.
	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR SECURITY CAMERAS; (1) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM.	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR SECURITY CAMERAS. PROVIDE SINGLE GANG PLENUM-RATED BACK BOX WITH 1" CONDUIT.
	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR WIRELESS ACCESS POINT. (2) CATEGORY 6A UTP CABLE TO THE DESIGNATED IT ROOM. CONTRACTOR TO PROVIDE A MINIMUM OF 15 FEET OF SLACK NEATLY COILED ABOVE THE NEAREST ACCESSIBLE CEILING FOR FUTURE USE. WIRELESS ACCESS POINT DEVICE WILL BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.	CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR WIRELESS ACCESS POINT. PROVIDE SINGLE GANG PLENUM-RATED BACK BOX.

## GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS OF FLOORBOXES, JUNCTION BOXES, PLYWOOD, GROUNDING CONDUCTORS, BUSBARS, CONDUITS, METALLIC ENCLOSURES, ELECTRICAL PANELBOARDS AND CIRCUITING.
- INSTALL FIRESTOP TO ALL SLAB AND WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLE AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. REVIEW ARCHITECT'S PLANS FOR PARTITION TYPES.
- REFER TO ARCHITECTURAL DRAWING FOR UL RATED PENETRATION ASSEMBLIES.
- SUB CONTRACTOR TO COORDINATE ALL STRUCTURAL FLOOR AND WALL PENETRATIONS WITH GC PRIOR TO CONSTRUCTION.

## CABLING NOTES

- PROVIDE TYPED IDENTIFICATION LABELS FOR ALL TELECOMMUNICATIONS CABLES AT BOTH ENDS.
- PROVIDE TYPED DESIGNATION LABELS FOR ALL RACKS AND CABINETS, TERMINATION BLOCKS, PATCH PANELS, AND WORKSTATION OUTLET FACEPLATES.
- CABLE CONTRACTOR TO REVIEW PROPOSED OUTLET LOCATIONS ON DRAWINGS IN FIELD AND IMMEDIATELY REPORT ANY PERCEIVED ISSUES WITH CABLE DISTANCE EXCEEDING 90M BASED ON PLANNED ROUTING TO THE GC, BEFORE INTALLATION OF CABLING.
- ALL CABLING SHALL BE INSTALLED USING STREETS AND AVENUES ROUTING, NO DIAGONAL RUNS ARE ACCEPTABLE.
- COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION OF ALL TELECOMMUNICATIONS OUTLETS.
- IF CONFLICTS ARE FOUND BETWEEN THE TELECOMMUNICATIONS DRAWINGS AND ANY OTHER DRAWINGS ASSOCIATED WITH THE PROJECT, NOTIFY THE GC AT ONCE.
- INSTALL EACH CABLE SET INDICATED BY THE SYMBOLS LIST FROM THE OUTLET LOCATION BACK TO THE RESPECTIVE SERVING TELECOMMUNICATIONS ROOM (TR).
- FOLLOW MANUFACTURER'S GUIDELINES FOR BEND RADIUS AND PULLING TENSIONS FOR ALL TELECOMMUNICATIONS CABLE.
- CABLES RUNNING THROUGH EXPOSED CEILING CONDITIONS MUST BE NEATLY BUNDLED TO ENSURE CONSISTENT APPEARANCE WITHIN ALL OPEN/EXPOSED CEILING CONDITIONS.

## PATHWAY NOTES

- COORDINATE INSTALLATION OF CONDUITS AND CABLE TRAYS WITH OTHER COMPONENTS INSTALLED WITHIN THE CEILING. PREPARE SHOP DRAWINGS TO DEMONSTRATE AND ENSURE PROPER INSTALLATION OF ALL COMPONENTS.
- MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2" DIAMETER. MAINTAIN MINIMUM BEND RADIUS OF 6X O.D. FOR CONDUITS EQUAL TO OR LESS THAN 2" DIAMETER.
- PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 100' OF CONDUIT RUN OR AFTER EVERY 180-DEGREES OF BEND OR AFTER EVERY 50' OF VERTICAL RUN.
- DO NOT INSTALL PULL BOXES IN LIEU OF A BEND.
- REAM AND BUSH THE ENDS OF ALL CONDUITS.
- PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH EMPTY CONDUIT.
- STUB UP CONDUIT SLEEVES THROUGH SLABS 3" ABOVE FINISHED FLOORS.
- PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUND LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- INSTALL CONDUIT AND LADDER RACK FOR TELECOMMUNICATIONS WIRING TO MAINTAIN A MINIMUM OF 5" SEPARATION FROM LIGHT FIXTURES.
- GROUND ALL CONDUITS AND LADDER RACK AS PER MANUFACTURERS' RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- PROVIDE AT ALL LADDER RACK AND CABLE TRAY LOCATIONS: RUNWAY DROP OUTS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT KITS AND CEILING SUPPORT HARDWARE.
- FOR ALL WIRE MESH BASKET TYPE CABLE TRAY, PROVIDE CONNECTION HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, SUPPORT BRACKETS AND CEILING SUPPORT HARDWARE.
- REFER TO DISTRIBUTION PLANS FOR REQUIREMENTS FOR JUNCTION BOX AND CONDUITS TO SUPPORT WORKSTATION OUTLETS.
- WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (I.E. GYPSUM BOARD) CEILING CONSTRUCTION, CONDUIT AND PULLBOXES MUST BE INSTALLED TO PROPERLY ROUTE CABLE ACROSS THE ENTIRE SPAN OF INACCESSIBLE CEILING. PULLBOXES MUST BE LOCATED SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED.
- PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILINGS CONSTRUCTION, EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED.
- J-HOOKS AND CABLE STRAPS SHALL SUPPORT CABLE AT NOT GREATER THAN 5-FOOT INTERVALS; LOCATIONS MUST BE CAREFULLY PLANNED TO ENSURE CONSISTENT APPEARANCE WITHIN ALL OPEN/EXPOSED CEILING CONDITIONS.
- COORDINATE WALL BOX LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.

## LABELING NOTES

- CABLE ADMINISTRATION:
  - PROPERLY TAG ALL RACKS AND CABINETS, CABLES, RECEPTACLES, CONNECTION BLOCKS AND PATCH PANELS
  - PRIOR TO SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT AN AS-BUILT LABEL REPORT PROVIDING THE ROOM NUMBERS AND CABLE LENGTHS FOR EACH OF THE INSTALLED CABLES.
- LABEL REQUIREMENTS:
  - PROVIDE WHITE LABEL WITH TYPEWRITTEN LEGIBLE CHARACTERS. PRINTED WITH NON-SMEAR TYPE INK. HANDWRITTEN LABELS ARE NOT PERMITTED.
  - PROVIDE LABELS WITH A INDUSTRIAL GRADE SELF ADHESIVE BACKING.
  - PROVIDE LABELS FOR CABLES WITH PROTECTIVE WRAP-AROUND PLASTIC TRANSPARENT COVER WHICH WILL SERVE TO PROTECT THE INK FROM SMEARING AND SECURE THE LABEL TO THE CABLE.
  - PROVIDE LABELS FOR CABLES WIDE ENOUGH FOR 23 CHARACTERS IN A SINGLE ROW.
  - PROVIDE BLACK PHENOLIC TYPE LABEL WITH WHITE FONT FOR RACK, CABINET LABELING
  - RISER AND TIE CABLES JACKETS SHALL BE LABELED WITHIN EACH TELECOM ROOM AND AT 40FT INTERVALS OUTSIDE TELECOM ROOMS ABOVE CEILINGS.

## ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATE
AV	AUDIOVISUAL
BDF	BUILDING DISTRIBUTION FRAME
BET	BUILDING ENTRANCE TERMINAL
C	CONDUIT(S)
CAT3	TIA CATEGORY 3 RATED
CAT5	TIA CATEGORY 5 RATED
CAT5e	TIA CATEGORY 5e RATED
CAT6	TIA CATEGORY 6 RATED
CAT6A	TIA AUGMENTED CATEGORY 6 RATED
CLG	CEILING
CM	CONSTRUCTION MANAGER
CP	CONSOLIDATION POINT
D	DEEP
EC	ELECTRICAL CONTRACTOR
EQ	EQUAL
EQPT	EQUIPMENT
ER	EQUIPMENT ROOM
F&I	FURNISH AND INSTALL
FO	FIBER OPTIC
FT	FOOT/FEET
F/UTP	FOILED UNSHIELDED TWISTED PAIR
GC	GENERAL CONTRACTOR
GND	GROUND
H	HIGH
IDF	INTERMEDIATE DISTRIBUTION FRAME
LAN	LOCAL AREA NETWORK
LOMMF	LASER OPTIMIZED MULTIMODE FIBER OPTIC
MC	MAIN CROSS CONNECT
MCS	MULTIMEDIA COMMUNICATION SYSTEM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MM	MULTIMODE
MMFO	MULTIMODE FIBER OPTIC
MPO	MULTIPLE FIBER PUSH-ON MOUNTED
MTD	MOUNTED
NE	NORTH EAST
NIC	NOT IN CONTRACT
NW	NORTH WEST
NTS	NOT TO SCALE
O.C	ON CENTER
OFE	OWNER FURNISHED EQUIPMENT
OSP	OUTSIDE PLANT
PB	PULLBOX
PBX	PRIVATE BRANCH EXCHANGE
POE	POINT OF ENTRY
PR	PAIR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
RU	RACK UNIT
RW	RACEWAY
SE	SOUTH EAST
SW	SOUTH WEST
SMF	SINGLEMODE FIBER OPTIC
STP	SHELDED TWISTED PAIR
STR	STRAND
TEMP	TEMPORARY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM / TECHNOLOGY ROOM
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VOIP	VOICE OVER INTERNET PROTOCOL
W	WITH
W/O	WITHOUT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WP	WATERPROOF
WS	WORKSTATION
W	WIDE
WW	WIREWAY

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ISSUE DATES	DESCRIPTION
03/20/2019	100% SCHEMATIC DESIGN
03/20/2019	100% PLANNING BOARD
07/02/2019	75% DESIGN DEVELOPMENT
08/02/2019	100% DESIGN DEVELOPMENT
12/13/2019	50% CONSTRUCTION DOCUMENTS
03/20/2020	CD PROGRESS SET
05/01/2020	ISSUED FOR CONSTRUCTION
07/01/2020	GMP SET
08/01/2021	BID SET

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**1** TELECOMMUNICATIONS - SITE PLAN  
SCALE: 1" = 40'-0"



NOTES

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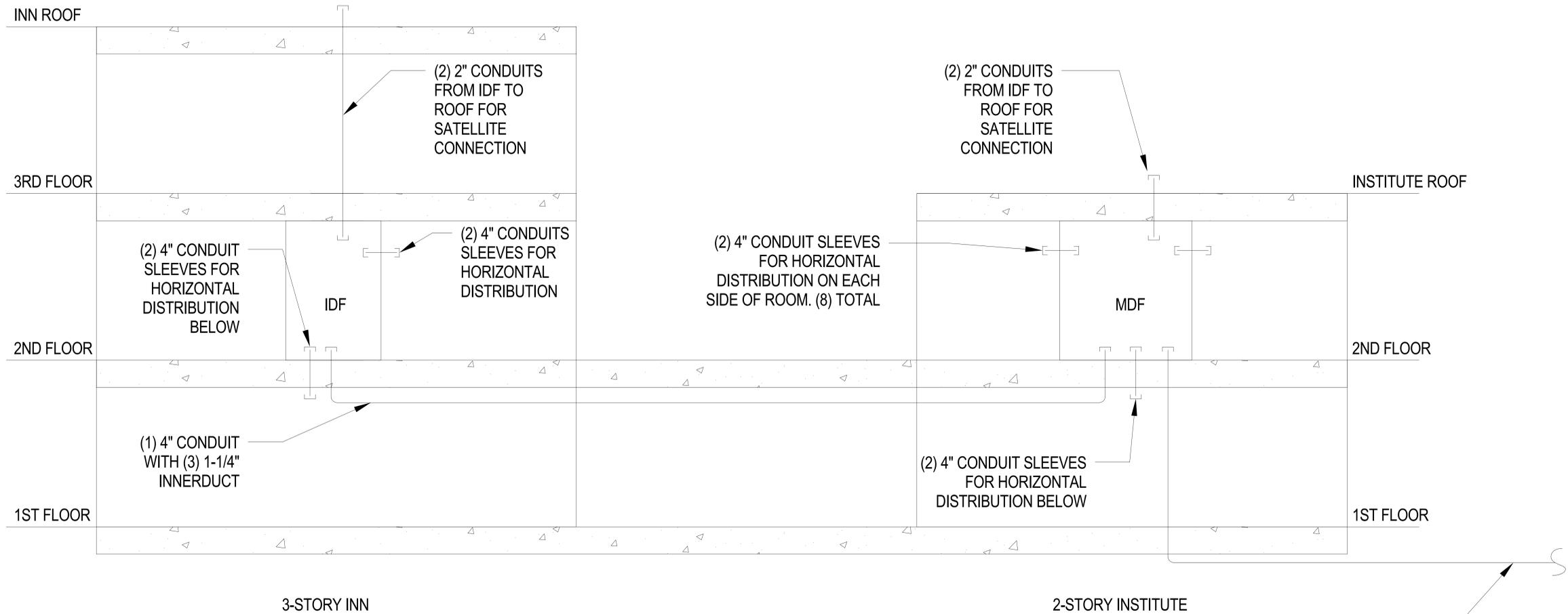
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03/25/2019 PLANNING BOARD  
07/29/2019 75% DESIGN DEVELOPMENT  
08/20/2019 100% DESIGN DEVELOPMENT  
12/10/2019 50% CONSTRUCTION DOCUMENTS  
03/03/2020 CD PROGRESS SET  
05/01/2020 ISSUED FOR CONSTRUCTION  
07/01/2020 GMP SET  
08/21/2021 BP SET

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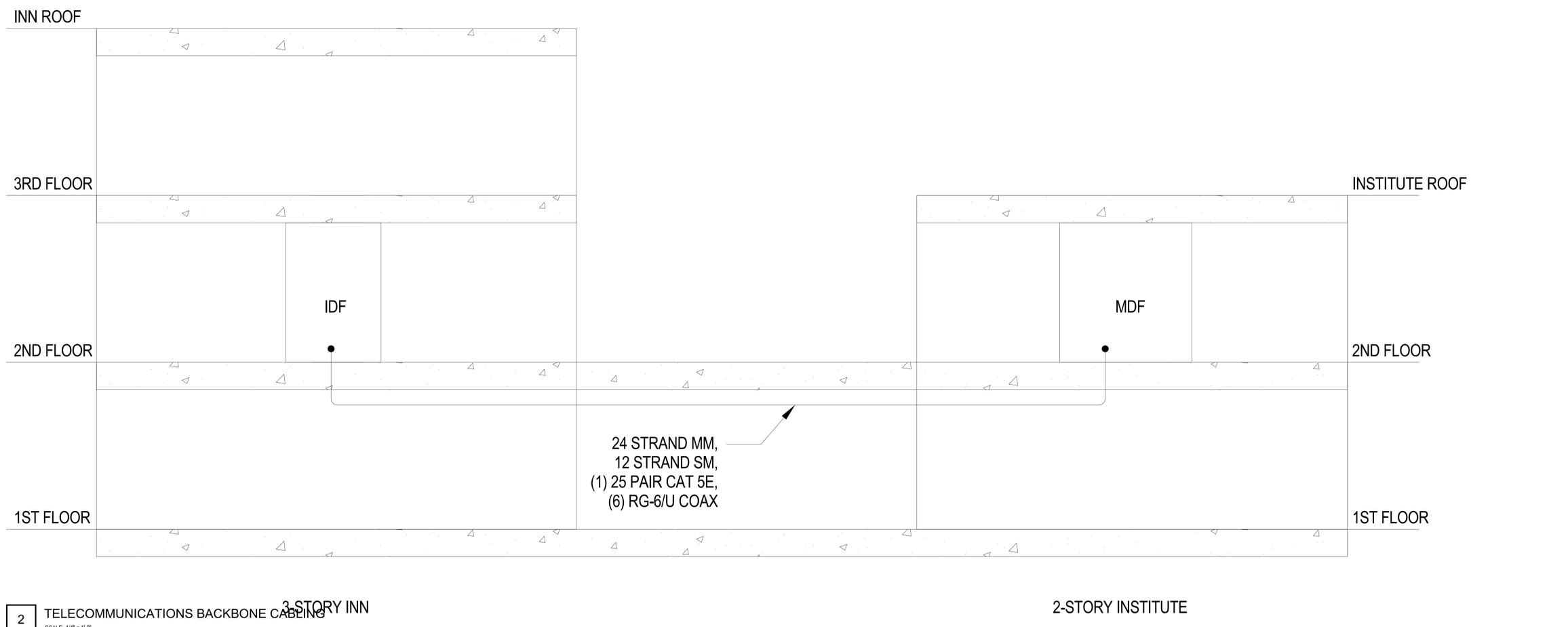
TELECOM  
SITE PLAN  
SCALE: 1" = 40'-0"

TN-100

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**1** TELECOMMUNICATIONS CONDUIT RISER  
SCALE: 1/4" = 1'-0"



**2** TELECOMMUNICATIONS BACKBONE CABLING  
SCALE: 1/4" = 1'-0"

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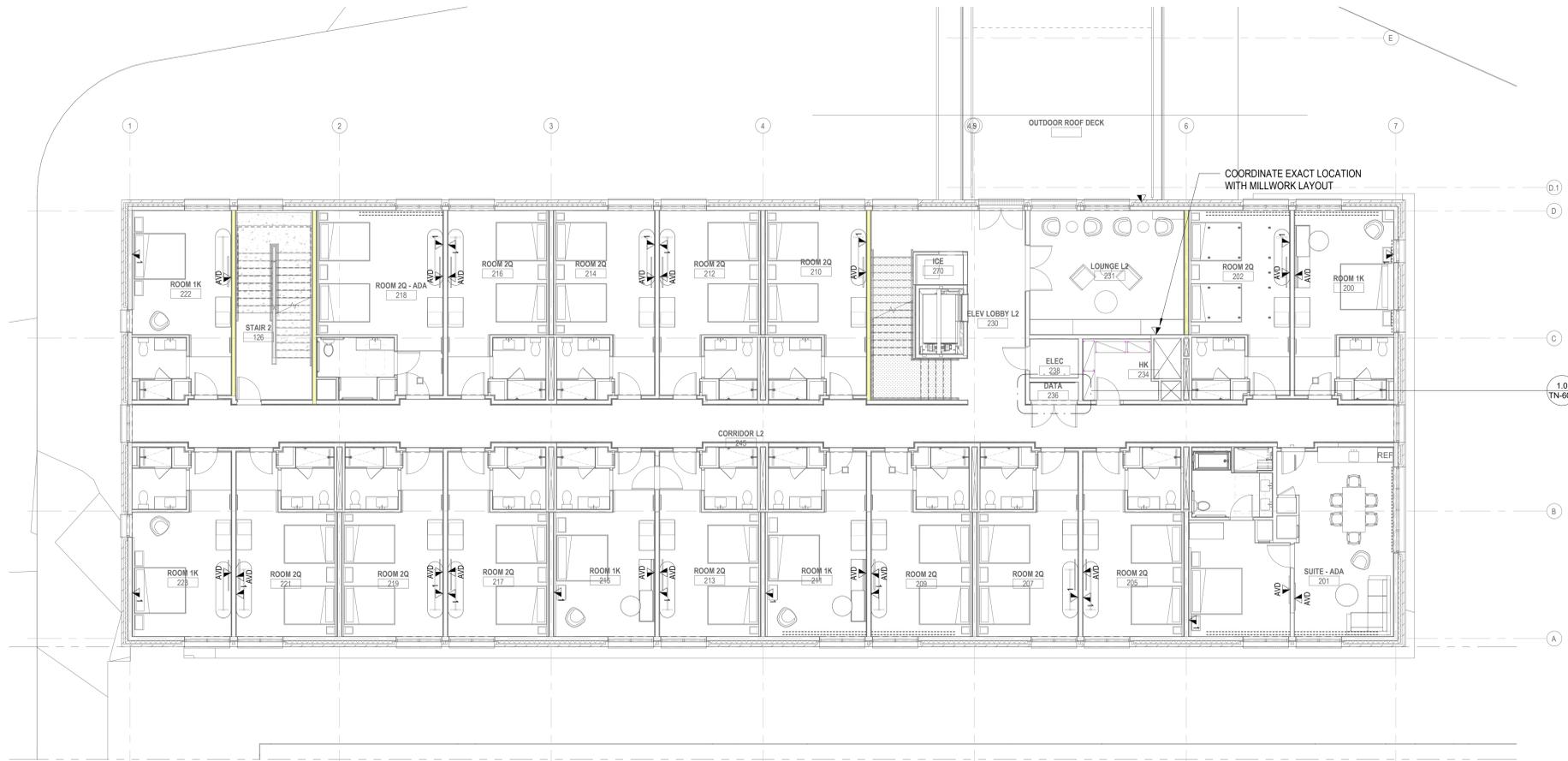
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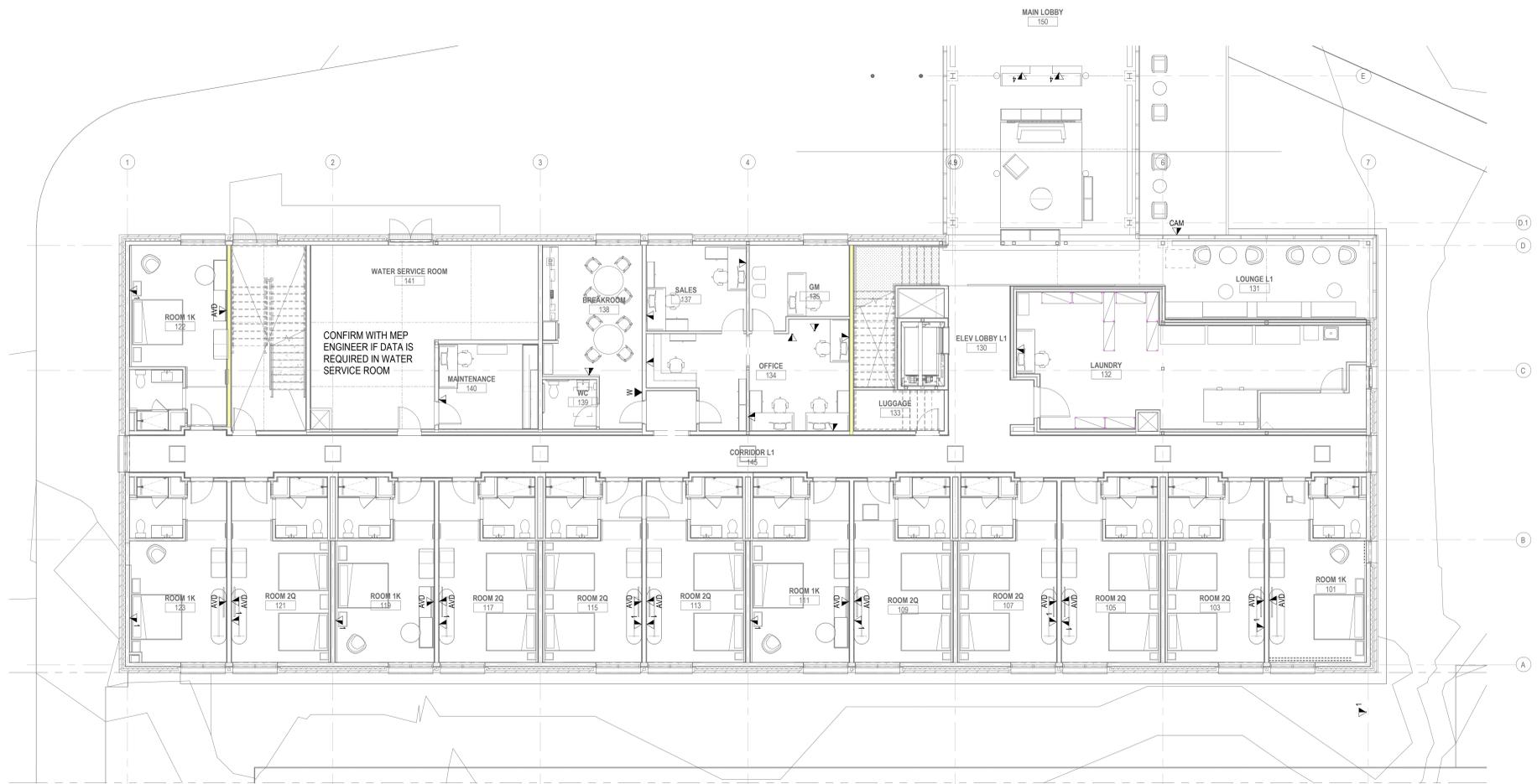
TELECOM  
CONDUIT  
RISER AND  
BACKBONE  
CABLING  
SCALE: 1/4" = 1'-0"

**TN-101**

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**2 TELECOMMUNICATIONS - PLAN - INN LEVEL 2**  
SCALE: 1/8" = 1'-0"



**1 TELECOMMUNICATIONS - PLAN - INN LEVEL 1**  
SCALE: 1/8" = 1'-0"

**NOTES**

1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR IDF CLOSET.



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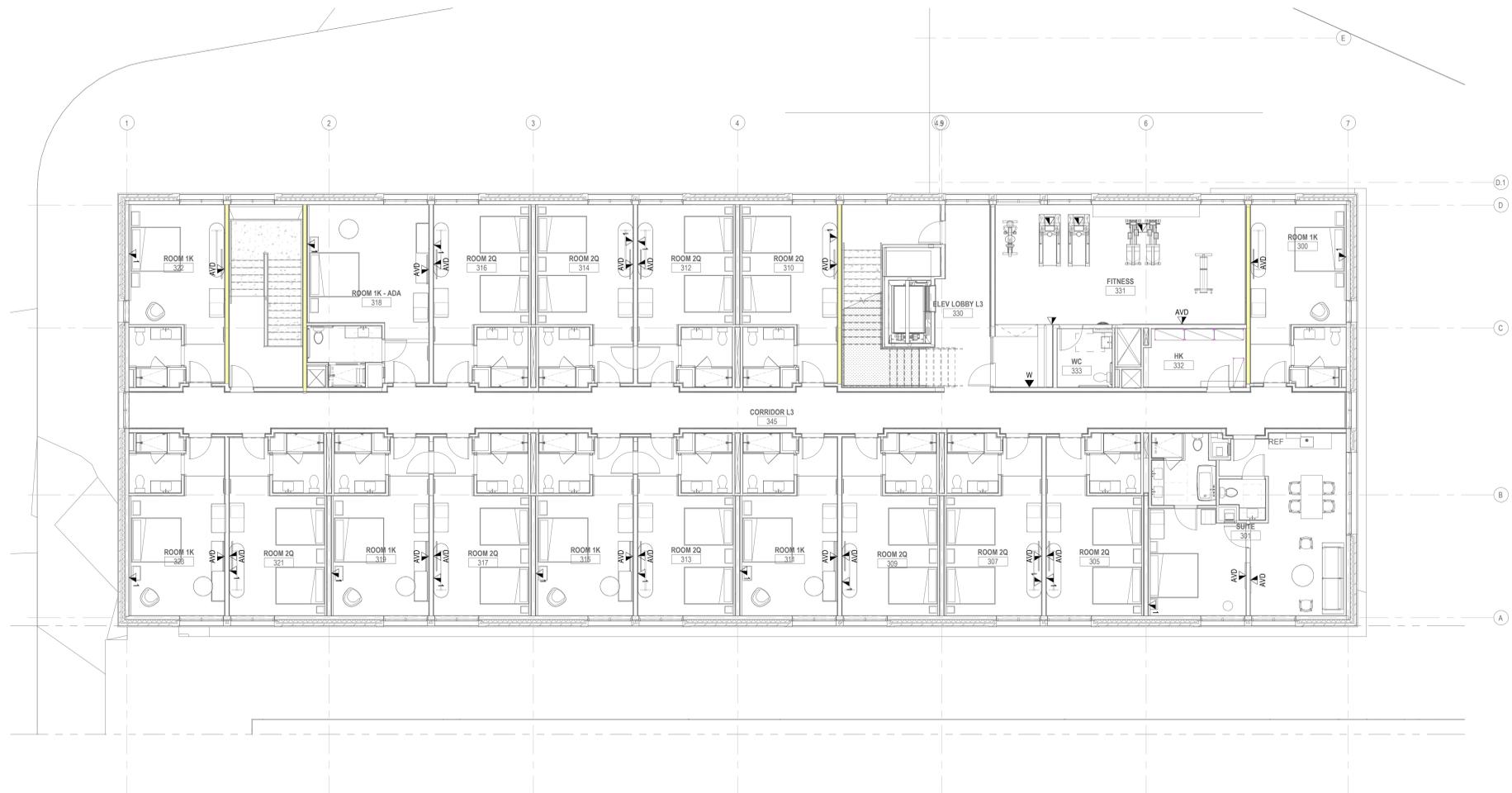
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ISSUE DATES

03/20/19	10% SCHEMATIC DESIGN
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07/29/19	75% DESIGN DEVELOPMENT
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07/01/20	GMP SET
08/21/20	BP SET

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**1 TELECOMMUNICATIONS - PLAN - INN LEVEL 3**  
SCALE: 1/8" = 1'-0"



**NOTES**

- 1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR IDF CLOSET.

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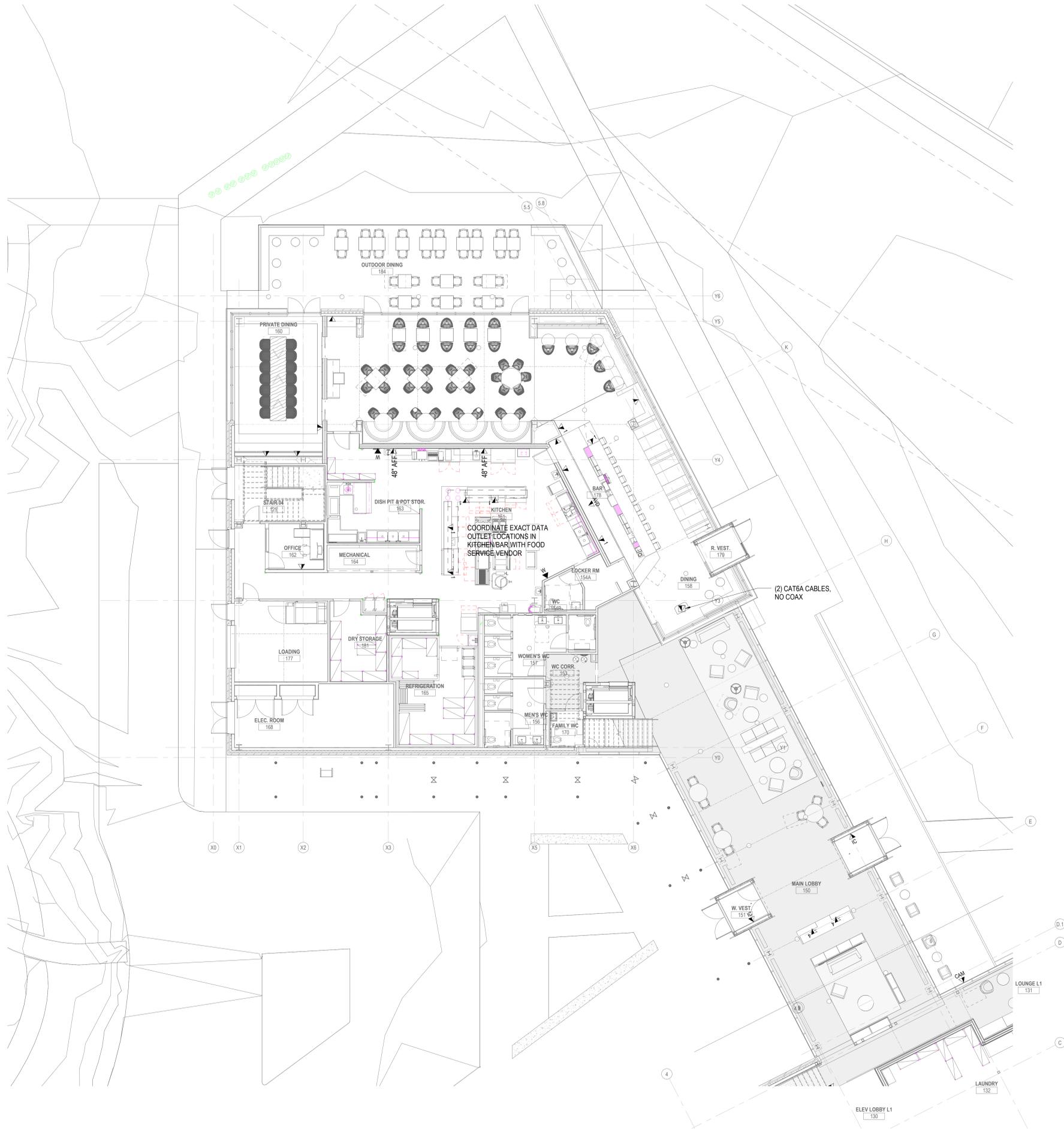
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03/20/19 PLANNING BOARD  
07/26/19 75% DESIGN DEVELOPMENT  
08/20/19 100% DESIGN DEVELOPMENT  
12/10/19 50% CONSTRUCTION DOCUMENTS  
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05/01/20 ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
08/21/20 IFP SET

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TELECOM  
PLAN INN  
LEVEL 3  
SCALE: 1/8" = 1'-0"

TN-203

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1 TELECOMMUNICATIONS - PLAN - INSTITUTE LEVEL 1  
SCALE: 1/8" = 1'-0"

NOTES

- 1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR MDF CLOSET.

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03/25/19 PLANNING BOARD  
07/29/19 75% DESIGN DEVELOPMENT  
08/20/19 100% DESIGN DEVELOPMENT  
12/10/19 50% CONSTRUCTION DOCUMENTS  
03/03/20 CD PROGRESS SET  
05/01/20 ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
06/21/21 BP SET

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TELECOM PLAN  
INSTITUTE LEVEL 1  
SCALE: 1/8" = 1'-0"

TN-204

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1 TELECOMMUNICATIONS - PLAN - INSTITUTE LEVEL 2  
SCALE: 1/8" = 1'-0"

NOTES

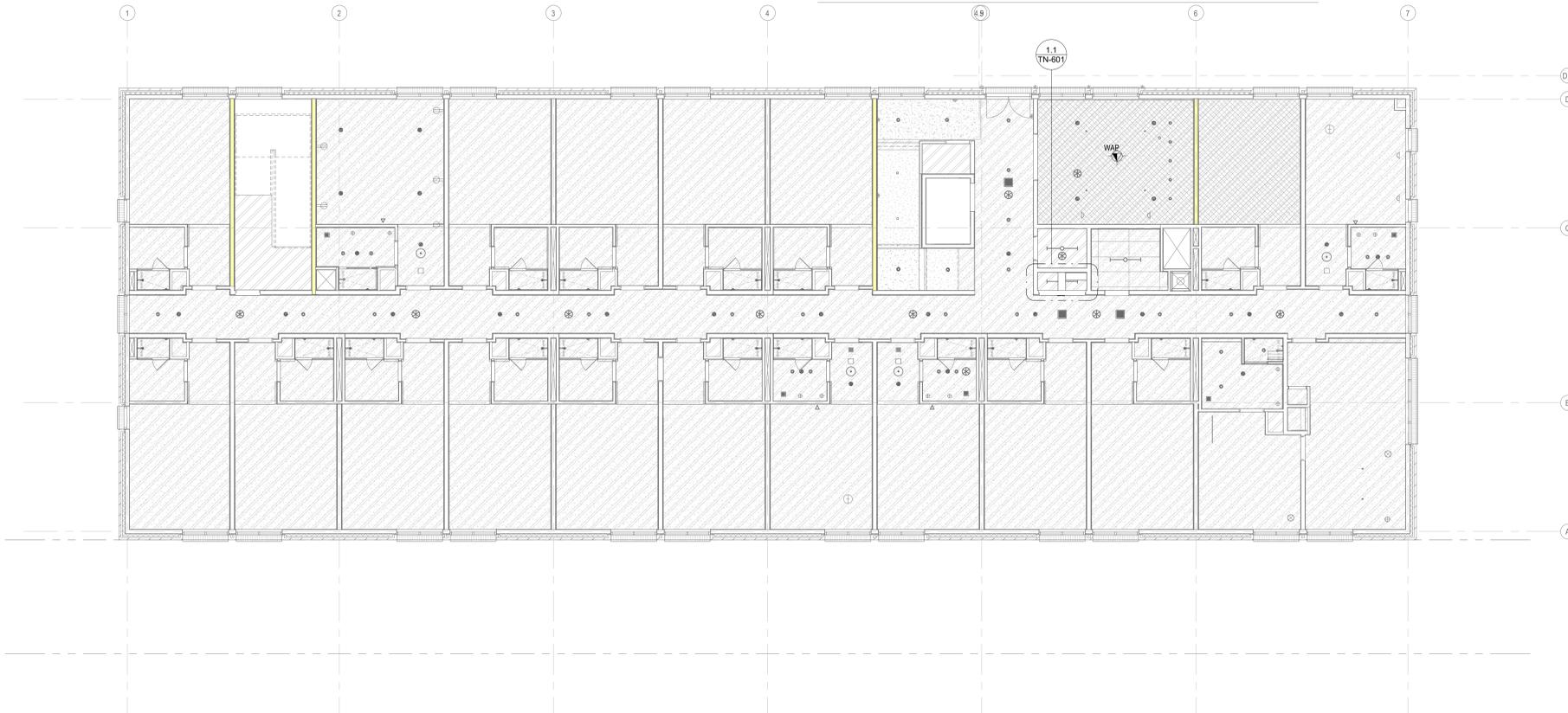
- 1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR MDF CLOSET.

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ISSUE DATES  
03/20/19 10% SCHEMATIC DESIGN  
03/20/19 PLANNING BOARD  
07/29/19 75% DESIGN DEVELOPMENT  
08/20/19 100% DESIGN DEVELOPMENT  
12/10/19 50% CONSTRUCTION DOCUMENTS  
03/03/20 CD PROGRESS SET  
05/01/20 ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
06/21/2021 BID SET

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**2** TELECOMMUNICATIONS - RCP - INN LEVEL 2  
SCALE: 1/8" = 1'-0"



**1** TELECOMMUNICATIONS - RCP - INN LEVEL 1  
SCALE: 1/8" = 1'-0"

**NOTES**

- 1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR IDF CLOSET.

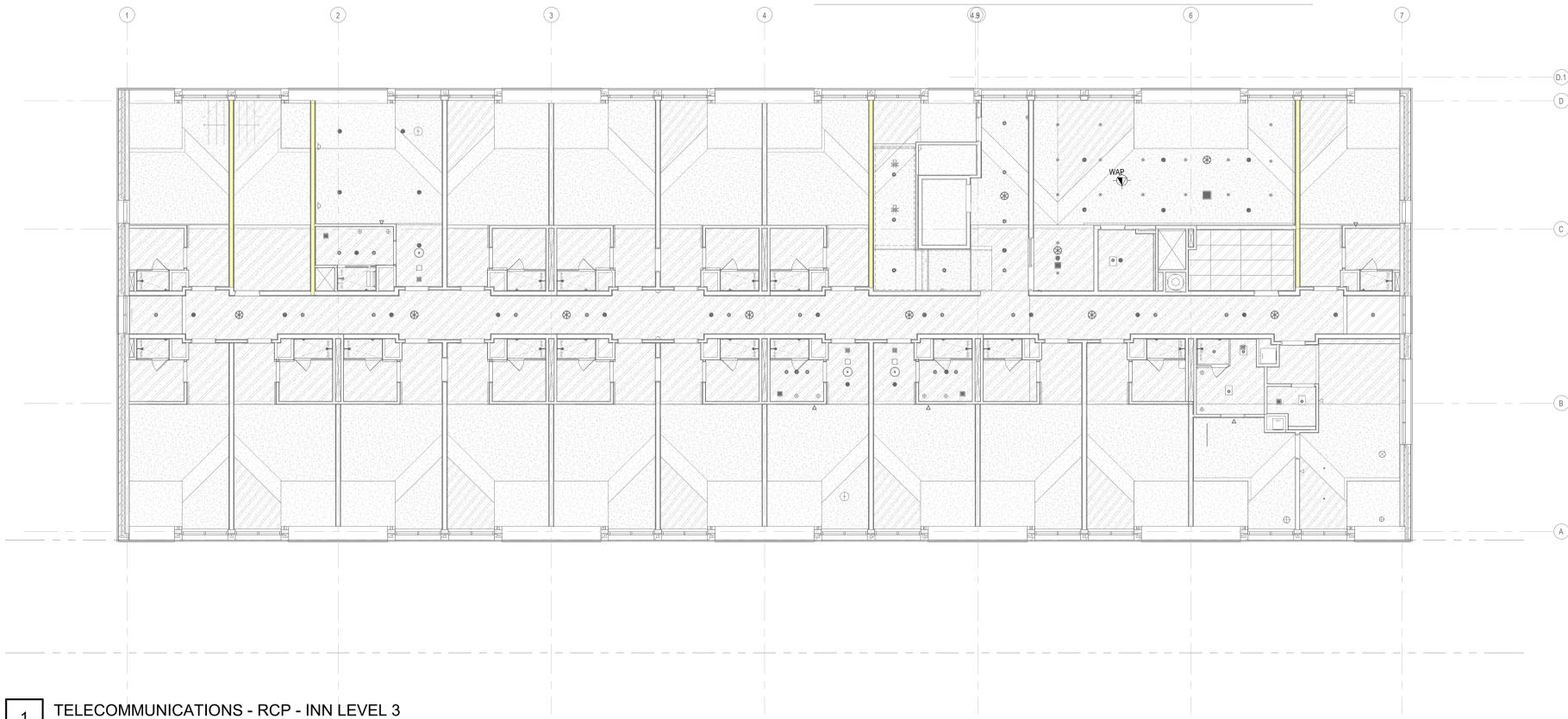


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07/29/2019 75% DESIGN DEVELOPMENT  
08/20/2019 100% DESIGN DEVELOPMENT  
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08/21/2021 RFP SET

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**1** TELECOMMUNICATIONS - RCP - INN LEVEL 3  
SCALE: 1/8" = 1'-0"

**NOTES**

1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR IDF CLOSET.



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08/20/19 100% DESIGN DEVELOPMENT  
12/10/19 50% CONSTRUCTION DOCUMENTS  
03/03/20 CD PROGRESS SET  
05/01/20 ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
06/21/21 BP SET

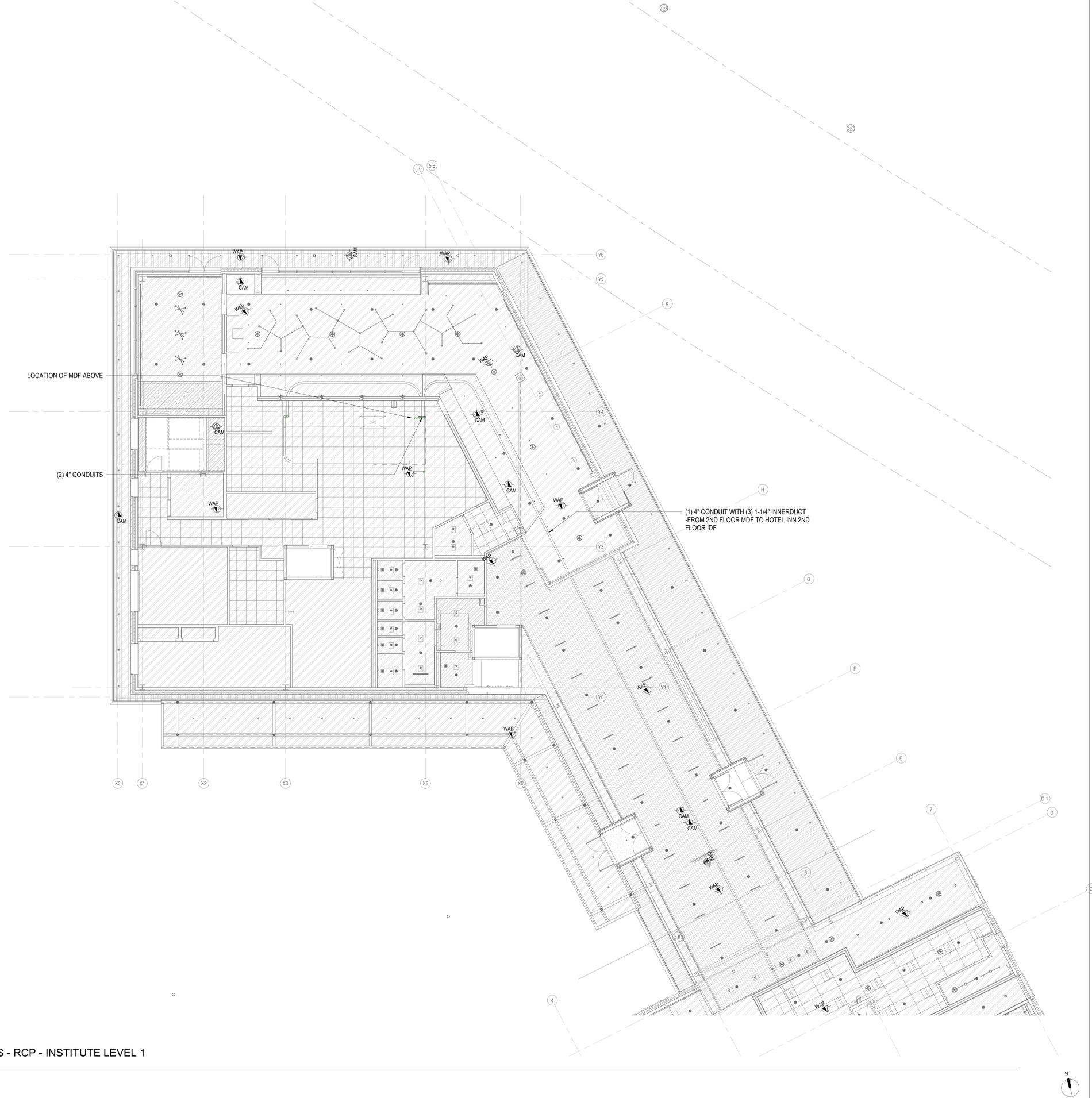
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350 West 87th St, Suite 1050, New York, NY 10024

TELECOM  
RCP INN  
LEVEL 3  
SCALE: 1/8" = 1'-0"

TN-303

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**1 TELECOMMUNICATIONS - RCP - INSTITUTE LEVEL 1**  
SCALE: 1/8" = 1'-0"



**NOTES**

- 1. ALL CABLING ON THIS FLOOR SHALL BE HOME RUN TO 2ND FLOOR MDF CLOSET.

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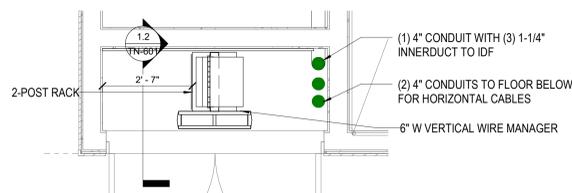
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07/26/19 75% DESIGN DEVELOPMENT  
08/20/19 100% DESIGN DEVELOPMENT  
12/10/19 50% CONSTRUCTION DOCUMENTS  
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07/01/20 GMP SET  
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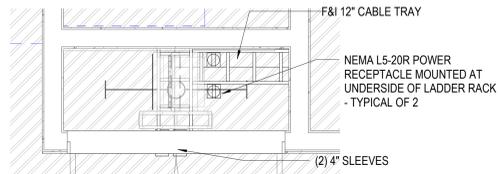
TELECOM  
RCP  
INSTITUTE  
LEVEL 1  
SCALE: 1/8" = 1'-0"

TN-304

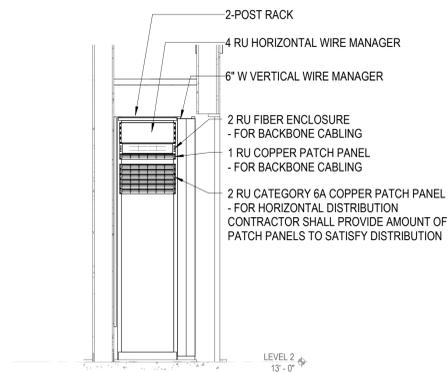




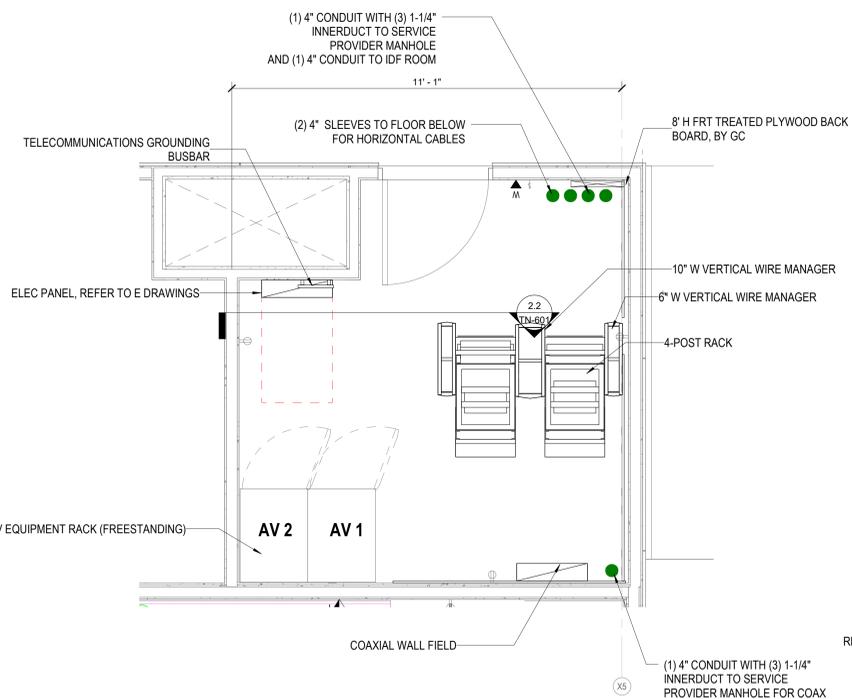
**1.0** TELECOMMUNICATIONS - ENLARGED PLAN - IDF ROOM  
SCALE: 1/2" = 1'-0"



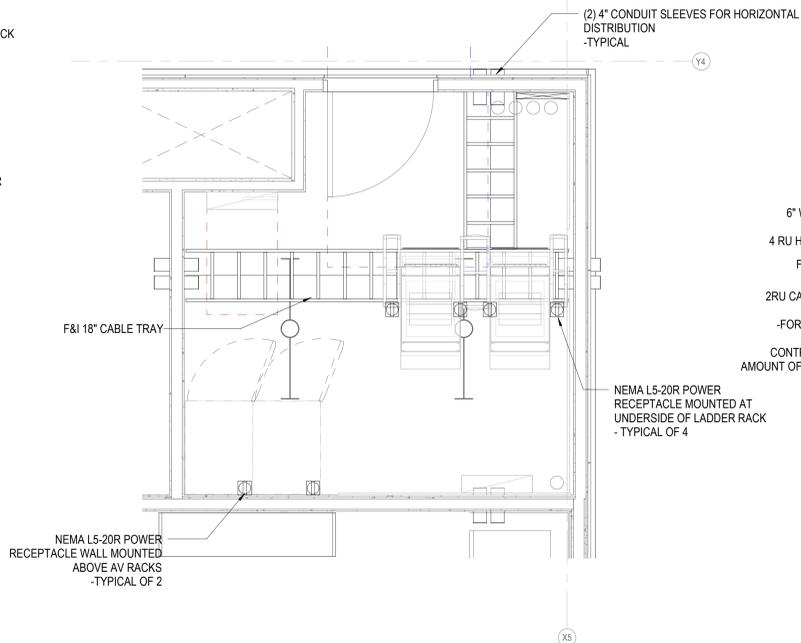
**1.1** TELECOMMUNICATIONS - ENLARGED RCP - IDF ROOM  
SCALE: 1/2" = 1'-0"



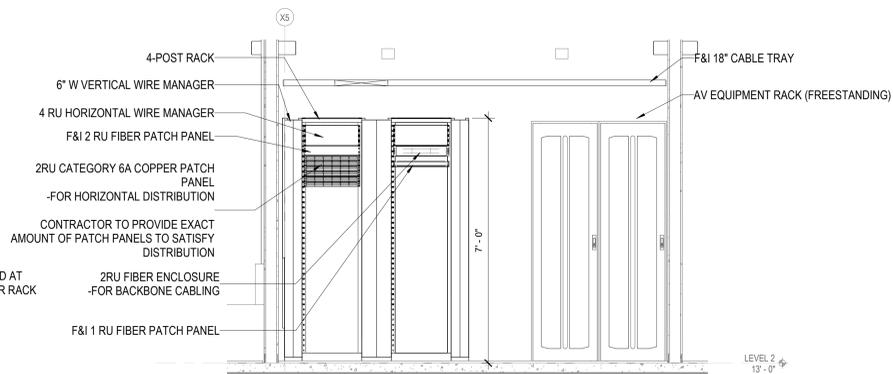
**1.2** TELECOMMUNICATIONS - IDF CLOSET - RACK ELEVATION  
SCALE: 1/2" = 1'-0"



**2.0** TELECOMMUNICATIONS - ENLARGED PLAN - MDF ROOM  
SCALE: 1/2" = 1'-0"



**2.1** TELECOMMUNICATIONS - ENLARGED RCP - MDF ROOM  
SCALE: 1/2" = 1'-0"



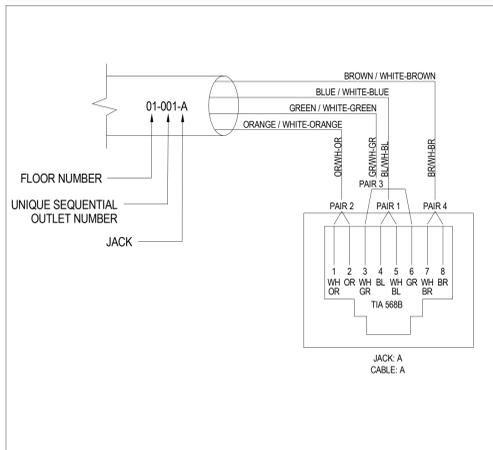
**2.2** TELECOMMUNICATIONS - MDF RACK ELEVATION  
SCALE: 1/2" = 1'-0"

CONTRACTOR

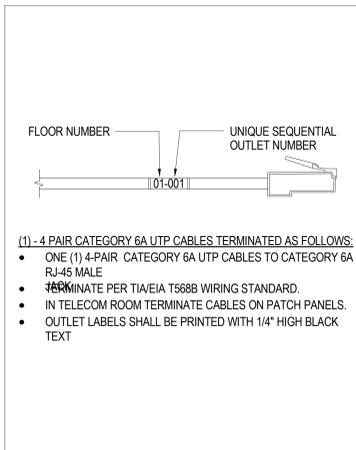
CONSULTANT

ISSUE DATES  
03/20/19 10% SCHEMATIC DESIGN  
03/20/19 PLANNING BOARD  
07/20/19 75% DESIGN DEVELOPMENT  
08/20/19 100% DESIGN DEVELOPMENT  
12/20/19 90% CONSTRUCTION DOCUMENTS  
03/20/20 CD-PROGRESS SET  
05/01/20 ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
08/21/20 BID SET

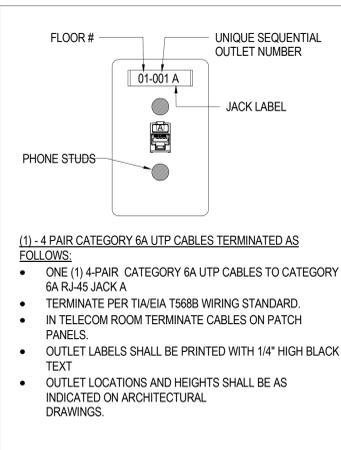
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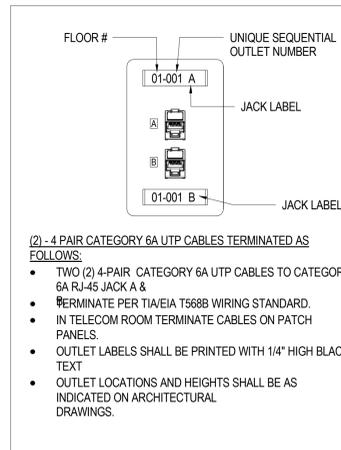
**1** TYPICAL CABLE  
DETAIL  
N.T.S.



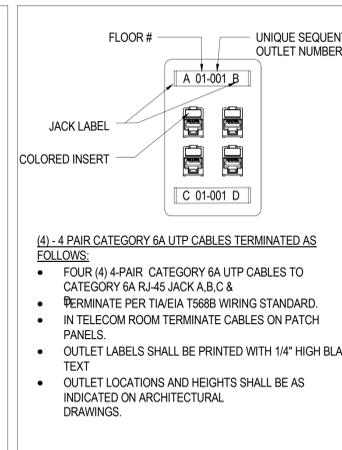
**2** FIELD TERMINATED RJ45  
MALE HEAD DETAIL  
N.T.S.



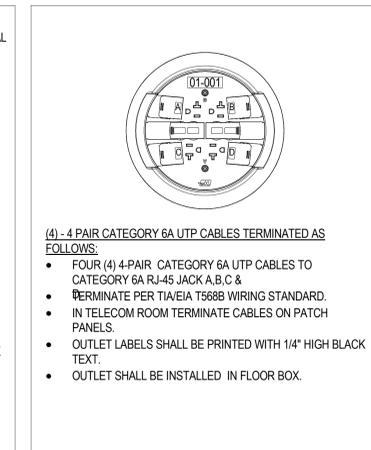
**3** WALL PHONE OUTLET  
DETAIL  
N.T.S.



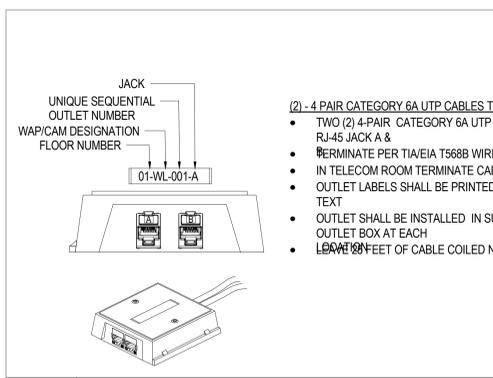
**4** 2-PORT OUTLET  
DETAIL  
N.T.S.



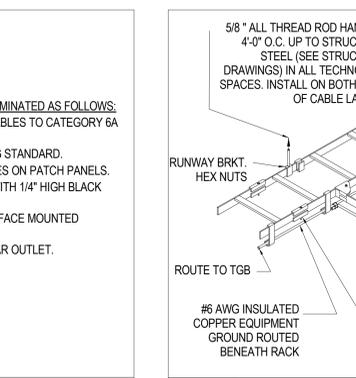
**5** 4-PORT OUTLET  
DETAIL  
N.T.S.



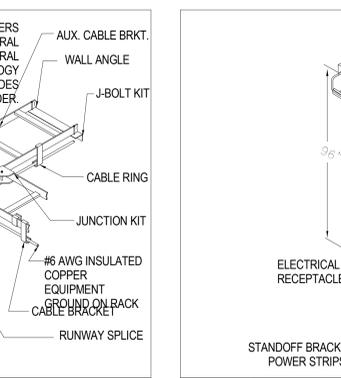
**6** POKE-THRU OUTLET  
DETAIL  
N.T.S.



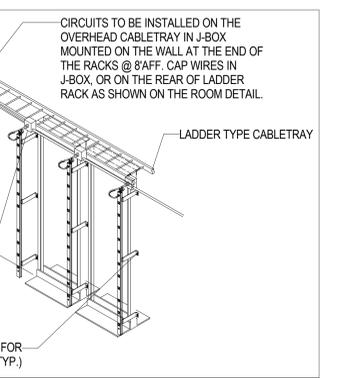
**7** 2-PORT OUTLET SURFACE MOUNTED  
DETAIL  
N.T.S.



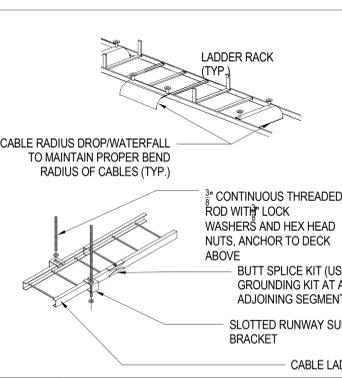
**8** TYPICAL LADDER RACK  
ASSEMBLY DETAIL  
N.T.S.



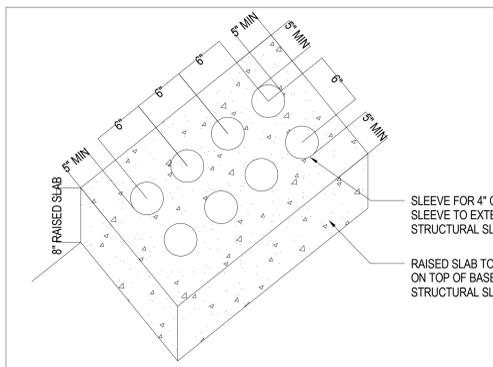
**9** EQUIPMENT RACK DETAIL  
POWER RECEPTACLE AND MOUNTING  
N.T.S.



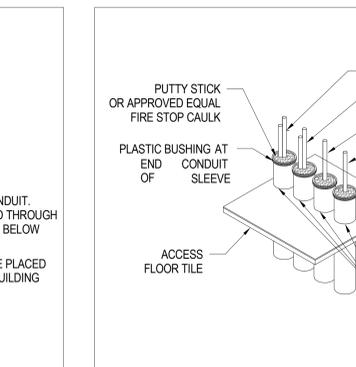
**10** CEILING MOUNTED LADDER  
RACK DETAIL  
N.T.S.



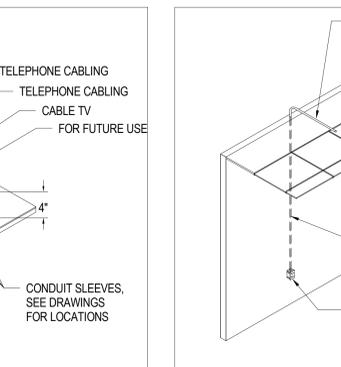
**11** TYPICAL GROUNDING BUS  
BAR DETAIL  
N.T.S.



**12** CONDUIT THRU SLAB  
DETAIL  
N.T.S.



**13** CONDUIT SLEEVE FLOOR  
PENETRATION FIRE-STOP DETAIL  
N.T.S.

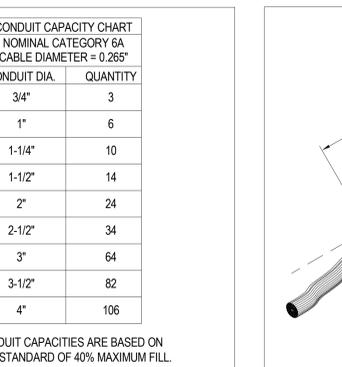


**14** WALL BOX CONDUIT  
STUB-UP DETAIL  
N.T.S.

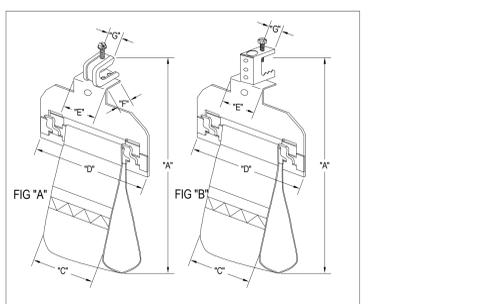
CONDUIT CAPACITY CHART NOMINAL CATEGORY 6A CABLE DIAMETER = 0.265"	
CONDUIT DIA.	QUANTITY
3/4"	3
1"	6
1-1/4"	10
1-1/2"	14
2"	24
2-1/2"	34
3"	64
3-1/2"	82
4"	106

NOTE: CONDUIT CAPACITIES ARE BASED ON  
NEC STANDARD OF 40% MAXIMUM FILL.

**15** TABLE OF CONDUIT SIZES  
N.T.S.



**16** J-HOOK DETAIL  
N.T.S.



PART NO.	FIG.	"A" 6" LOOP	"B" 6" LOOP	"C"	"D"	"E"	"F"	"G"
CAT425BC200	FIG. "A"	11 3/16"	8 11/16"	"5"	7 1/8"	1 3/8"	13/16"	7/8"
CAT425BC	FIG. "B"	11 3/16"	8 9/16"	"5"	7 1/8"	1 3/8"	1 1/8"	5/8"

**17** J-HOOK DETAIL  
N.T.S.

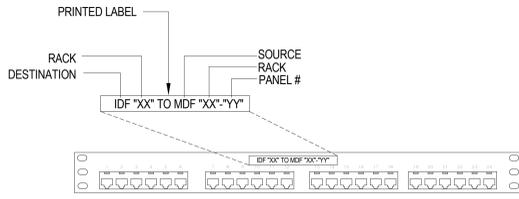
NOTES

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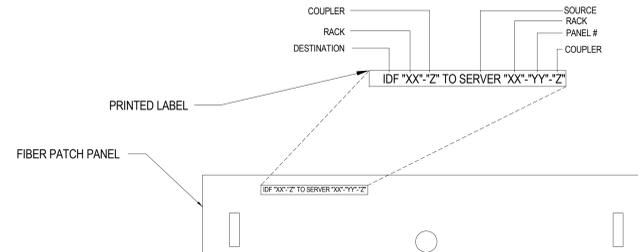
ISSUE DATES  
03/20/19 100% SCHEMATIC DESIGN  
03/20/19 PLANNING BOARD  
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03/20/20 CD PROGRESS SET  
05/01/20 CD ISSUED FOR CONSTRUCTION  
07/01/20 GMP SET  
08/01/20 BIP SET

TELECOM  
EQUIPMENT  
DETAILS  
SCALE: 1/8" = 1'-0"



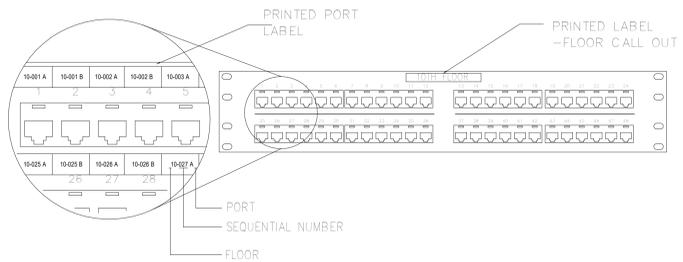
**1** COPPER PATCH PANEL LABELING SCHEME DETAIL

N.T.S.



**2** FIBER PATCH PANEL LABELING SCHEME DETAIL

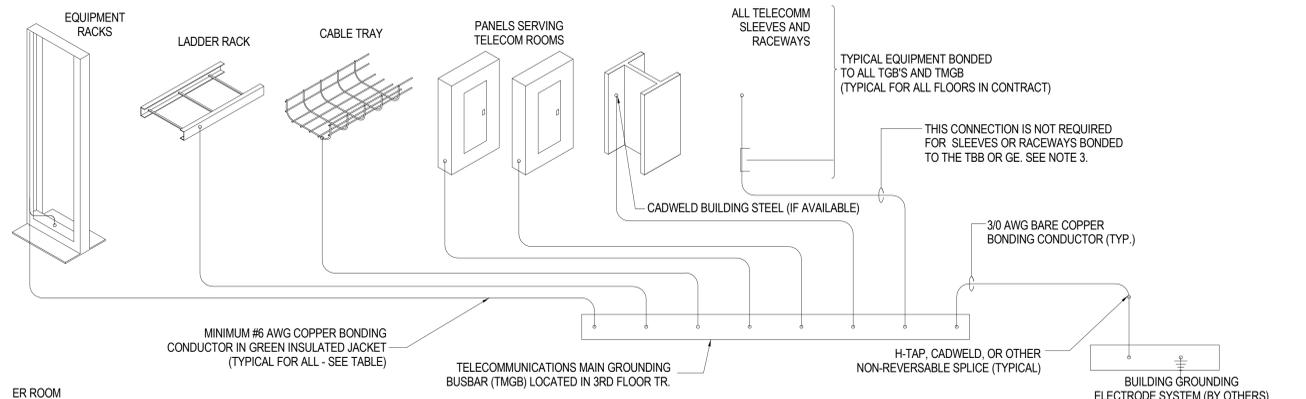
N.T.S.



- NOTES:
1. TERMINATION BLOCK AND PANEL SIZES ARE TYPICAL AND MAY VARY BY MANUFACTURER.
  2. LABELING SCHEME SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO SPECIFICATIONS AND APPLICABLE STANDARDS FOR ACTUAL LABELING SCHEME.
  3. TERMINATION FOR CAMERAS, WAPs, AND WORKSTATION CABLES SHALL USE INDIVIDUAL PATCH PANELS.

**3** TYPICAL PATCH PANEL LABELING SCHEME

N.T.S.



**GROUNDING NOTES:**

1. ALL BUSBARS SHALL BE 2" X 12" X 1/4" (UON) PRE-DRILLED TIN-PLATED COPPER. MOUNT ON WALL WITH 2" STANDOFF INSULATORS AND PLEXIGLASS COVER.
2. ALL CABLE CONNECTIONS TO TGB'S ARE TWO HOLE LONG BARREL COMPRESSION LUGS, UNLESS OTHERWISE NOTED.
3. BONDING CONDUCTORS SHALL GENERALLY BE RUN OPEN WITH PLASTIC SUPPORTS. WHERE RUN IN STEEL CONDUITS LONGER THAN 36", BOND CONDUIT TO TBB OR GE AT BOTH ENDS.
4. BONDING CONDUCTORS SHALL BE RUN WITHOUT SPLICES WHEREVER POSSIBLE. ANY SPLICES MUST BE MADE WITH NON-REVERSABLE COMPRESSION CONNECTORS OR CADWELD.
5. BONDING CONDUCTORS SHALL BE COPPER CONDUCTORS WITH GREEN INSULATION OR DISTINCTIVE GREEN MARKING, UNLESS OTHERWISE NOTED.
6. THE SIGNAL GROUNDING SYSTEM SHALL BE TIED TO THE INCOMING BUILDING ELECTRICAL SAFETY GROUND AT THE PRIMARY TRANSFORMER NEUTRAL BOND, AND/OR AT THE NEUTRAL BOND OF ANY SEPARATELY DERIVED SOURCE IN ACCORDANCE WITH APPLICABLE CODE. THE SYSTEM GROUND RESISTANCE SHALL BE LESS THAN 5.0 OHMS. THIS SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE ANSI/TIA-607-B, COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

GROUNDING CONDUCTOR SIZING	
LINEAR LENGTH m (ft)	CONDUCTOR SIZE (AWG)
LESS THAN 4 (13)	6
4-6 (14-20)	4
6-8 (21-26)	3
8-10 (27-33)	2
10-13 (34-41)	1
13-16 (42-52)	1/0
16-20 (53-66)	2/0
GREATER THAN 20 (66)	3/0

**4** TELECOM SYSTEM GROUNDING DIAGRAM DETAIL

N.T.S.

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05/01/20 CD FOR CONSTRUCTION  
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08/01/20 BID SET