TELECOM SYMBOLS

SYMBOL	DESCRIPTION	CABLE QUANTITY & TYPE	BOX TYPE (BY ELEC.)	CONDUIT STUB (BY ELEC.)
	WALL MTD. 2-PORT VOICE/DATA OUTLET	(2) CAT 6 UTP	2-GANG BOX W/ 1-GANG COLLAR	1-1/4" E.C.
	CEILING MTD. 2-PORT OUTLET FOR WIRELESS ACCESS POINT	(2) CAT 6A	SURFACE MOUNT BOX	1-1/4" E.C.
L-HUB	CEILING MTD. 1-PORT OUTLET FOR LIGHTING HUB	(1) CAT 6 UTP	SURFACE MOUNT BOX	1-1/4" E.C.
EV	1-PORT FIELD TERMINATED DATA PLUG FOR ELECTRIC VEHICLE CHARGING STATIONS	(1) CAT 6 UTP	2-GANG BOX W/ 1-GANG COLLAR	1-1/4" E.C.
	WALL MTD. 1-PORT VOICE OUTLET	(1) CAT 6 UTP	2-GANG BOX W/ 1-GANG COLLAR	1-1/4" E.C.

ELECTRICAL SYMBOLS (FOR INFORMATION ONLY)

	QUAD ELECTRICAL OUTLET	U-3R	20A/120V TWIST LOCK RECEPTACLE
	DUPLEX ELECTRICAL OUTLET	U-3R	30A/208V TWIST LOCK RECEPTACLE
	CONDUIT BANK	ALL CONDUITS, SLEEVES, PULL BOXES, AND JUNCTION BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	
	CONDUIT BANK TERMINATED		
	SLEEVE THROUGH WALL WITH REAMED AND BUSHED ENDS		
	TELECOMMUNICATIONS PULL BOX OR JUNCTION BOX		

TAG SYMBOLS

XX / TC-XXX	STANDARD DETAIL No. DESIGNATION	1 / TC-201	DETAIL No. / DRAWING No.
1	STANDARD REVISION TAG	1	REVISION No.
	STANDARD REVISION BUBBLE		
X	INDEXING SYMBOL	1	HEXAGONAL SYMBOLS CONTAINING ARABIC NUMERALS ONLY INDICATE REFERENCE TO AN EXPLANATION OF TELECOM WORK REQUIREMENTS.
X / TC-XXX	ELEVATION TAG	X / TC-XXX	DETAIL No. / DRAWING No.
XX-XXX.Ry.?.zz	TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG	XX-XXX.Ry.?.zz	JACK NUMBER ON PATCH PANEL; PATCH PANEL LETTER DESIGNATION; IDF RACK NUMBER THAT PATCH PANEL RESIDES (I.E. R2); IDF CLOSET ROOM NUMBER

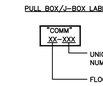
GENERAL NOTES FOR NEW CONSTRUCTION

1. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS TO SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO SUBMISSION OF A BID PROPOSAL. SUBMISSION OF A BID WILL BE JUDGED AS EVIDENCE THAT SUCH SITE EXAMINATION HAS BEEN MADE. CLAIMS FOR EXTRA COST FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE WILL NOT BE RECOGNIZED.
2. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES THAT ARISE DURING THE SITE VISIT AND SHALL REQUEST CLARIFICATION, IF NECESSARY.
3. ANY WORK REQUIRED DUE TO DIFFICULTIES RESULTING FROM EXISTING CONDITIONS SHALL BE INCLUDED AND DESCRIBED IN THE BASE BID.
4. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID, EXCEPT WHERE THERE IS SPECIFIC REFERENCE TO EXCLUSION OR INCORPORATION IN OTHER QUOTATIONS.
5. IT SHALL BE UNDERSTOOD THAT THE SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE TELECOMMUNICATIONS WORK. WHERE THERE ARE CONFLICTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR WITHIN THE SPECIFICATIONS OR DRAWINGS THEMSELVES, THE ITEM OF HIGHER STANDARD SHALL GOVERN.
6. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE OPERATING TELECOMMUNICATIONS CABLING INFRASTRUCTURE SYSTEM. ALL WORK NECESSARY TO PROVIDE SUCH A SYSTEM SHALL BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
7. THE DRAWINGS FOR COMMUNICATIONS WORK ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITION AFFECTING THE WORK AND ARRANGE SAME ACCORDINGLY.
7. THE DRAWINGS FOR COMMUNICATIONS WORK ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITION AFFECTING THE WORK AND ARRANGE SAME ACCORDINGLY.
8. THE DRAWINGS FOR COMMUNICATIONS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE COMMUNICATIONS DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.
9. NO EXCLUSION OF, OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR COMMUNICATIONS WORK, OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR COMMUNICATIONS WORK, SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
10. CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR COMMUNICATIONS WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF SAME. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBVIATE FIELD COORDINATION OF INDIVIDUAL ITEMS OF THE INDIVIDUAL WORK.
11. ALL TELECOMMUNICATIONS WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF OTHER TRADES RESULTING FROM SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF STIPULATED GUARANTEE PERIODS.
12. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, AND DOCUMENTATION ACCORDING TO THE MANUFACTURER'S REQUIREMENTS NECESSARY TO ENSURE THAT THE FORBES WILL BE FURNISHED WITH A FULL WARRANTY COVERING PRODUCTS AND APPLICATIONS FOR A DURATION OF FIFTEEN (15) YEARS MINIMUM. ALL NECESSARY DOCUMENTATION THAT MUST BE PROVIDED TO THE MANUFACTURER SHALL BE FURNISHED BY THE TELECOM CONTRACTOR IMMEDIATELY FOLLOWING 100% TESTING OF ALL CABLING. CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER PROVIDES FORBES WITH THE APPROPRIATE WARRANTY CERTIFICATION WITHIN 90 CALENDAR DAYS OF THE FINAL PROJECT COMPLETION.
13. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY, MUNICIPAL, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE COMMUNICATIONS WORK AND THE PROJECT.
14. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY COMMUNICATIONS ITEM IN THE DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE COMMUNICATIONS WORK, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

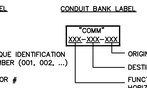
CONDUIT AND PULL BOX NOTES

1. CONDUIT ROUTES AND PULL BOX SIZING, QUANTITY, AND PLACEMENT ARE TO BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL PROVIDE ALL LENGTHS OF CONDUITS, PULL BOXES AND REQUIRED COMPONENTS NECESSARY TO ACHIEVE A COMPLETE CABLING INSTALLATION. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW BRANCH CONDUIT RUNS OF TRADE SIZE 2" OR LESS, NOR ARE THE MAIN CONDUIT ROUTES SHOWN TO BE ASSUMED AS THE INSTALLED CONDITION. RATHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONDUIT ROUTES WITH THE STRUCTURE AND ALL OTHER BUILDING SYSTEMS AND SHALL THEREFORE ASSUME FOR PRICING THAT MATERIAL QUANTITIES ARE NOT DEPENDENT UPON THOSE ROUTES SHOWN.
2. THE CONTRACTOR MAY CONSOLIDATE INDIVIDUAL CONDUIT PATHWAYS DIRECTLY SERVING TELECOMMUNICATIONS OUTLETS INTO FEWER AND LARGER CONDUIT. ALL CONDUIT FILL CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR 25% GROWTH. ALL CONDUIT CONSOLIDATIONS SHALL COMPLY WITH TIA STANDARDS AND BICSI GUIDELINES IN GENERAL AND SPECIFICALLY FOR CAPACITY AND DERATING FOR CONDUIT BENDS.
3. ALL CONDUITS SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL CORDS. THE CONTRACTOR SHALL ALSO PROVIDE PLASTIC BUSHINGS AT ALL SLEEVE AND OPEN CONDUIT ENDS.
4. CONDUIT PATHWAYS SHOWN ON THE FLOOR PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT BEND RADIUS.
5. RE-ESTABLISH THE FIRE RATING OF ALL CONDUIT AND CABLING PENETRATIONS MADE THROUGH FIRE RATED FLOORS OR WALLS.
6. ALL PULL BOXES, JUNCTION BOXES, AND CONDUITS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
7. A PULL BOX SHALL BE PROVIDED WHERE AN AGGREGATE OF CONDUIT RUN BENDS IS EQUAL TO 180° (MAXIMUM). PULL BOXES SHALL NOT BE USED AS A MEANS OF CHANGING DIRECTIONS. ALL BENDS/TURNS SHALL OCCUR OUTSIDE THE PULL BOX.
8. A PULL BOX SHALL BE PROVIDED EVERY 100 FT (MAXIMUM) FOR CONTINUOUS CONDUIT RUNS.
9. ALL CONDUIT RUNS SHOULD ACHIEVE THE BEST POSSIBLE DIRECT ROUTE BETWEEN END POINTS WITH NO BEND GREATER THAN 90°.
10. THE BEND RADIUS FOR TELECOMMUNICATIONS CONDUITS OF 2" OR LESS IN DIAMETER SHALL BE 6 TIMES (MINIMUM) THE OUTSIDE DIAMETER OF THE CONDUIT.
11. THE BEND RADIUS FOR TELECOMMUNICATIONS CONDUITS IN EXCESS OF 2" IN DIAMETER SHALL BE 10 TIMES (MINIMUM) THE OUTSIDE DIAMETER OF THE CONDUIT.
12. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A MINIMUM OF (2) PULL CORDS WITH A MINIMUM TEST RATING OF 200LB AND FITTED WITH BUSHED ENDS.
13. EACH PULL BOX/JUNCTION BOX USED FOR TELECOMMUNICATIONS WIRING SHALL BE CLEARLY IDENTIFIED ON THE OUTSIDE AS PER EIA/TIA-606 STANDARDS USING PULL BOX PLATES WITH 1" HIGH LETTERS. IN ADDITION EACH PULL BOX SHALL HAVE A P-TOUCH LABEL USING 1" HIGH LETTERS DESIGNATING THE CONDUIT BANK FUNCTION, END POINT, AND START POINT. THE FOLLOWING NOMENCLATURE SHALL BE USED:

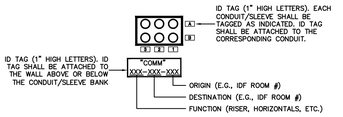
PULL BOX/J-BOX LABEL



CONDUIT BANK LABEL



14. THE CONTRACTOR SHALL SIZE ALL PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH FIELD CONDITIONS AND APPROVED STANDARDS (SEE ANSI/EIA/TIA-569B SECTION 8.8.2.5 GUIDELINES).
15. EACH CONDUIT OR SLEEVE BANK EXITING OR ENTERING A TELECOM ROOM SHALL BE LABELLED. THE LABEL SHALL BE ATTACHED TO THE WALL ABOVE OR BELOW THE CONDUIT/SLEEVE BANK IN A GRID METHOD – ROWS AND COLUMNS – AND SHALL USE 1" HIGH LETTERS. THE NOMENCLATURE USED TO IDENTIFY THE CONDUITS/SLEEVES SHALL INCLUDE THE FUNCTION DESIGNATION, START POINT, AND END POINT DESCRIBED BELOW:



16. ALL UNUSED CONDUITS SHALL BE CAPPED FOR FUTURE USE.
17. ALL RACEWAY AND CONDUIT WORK IS GOVERNED BY THE ELECTRICAL SPECIFICATIONS. REFER TO THE ELECTRICAL CONSULTANT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL WORK NOTES FOR TELECOM SPACES (IDF ROOMS)

1. ALL NEW ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES, KINDORF FRAMING, CONDUITS AND SLEEVES WITHIN TELECOM SPACES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
2. ALL NEW RACKS AND CABINETS WITHIN THE TELECOM SPACES SHALL BE FURNISHED AND INSTALLED BY THE TELECOM CONTRACTOR.
3. USE LADDER RACK FOR ANY OVERHEAD TELECOM CABLE ROUTING WITHIN THE TELECOM SPACES. SEE PART PLANS FOR LADDER RACK PLACEMENT, SIZE, QUANTITY, AND ORIENTATION.
4. CONTRACTOR SHALL PROVIDE CABLE SPILL-OUTS ("WATERFALLS") ON OVERHEAD LADDER RACK SYSTEMS WITHIN THE TELECOM SPACES WHEREVER CABLING IS ROUTED FROM THE LADDER RACK TO THE EQUIPMENT RACKS/CABINETS BELOW.
5. FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL NEW AND EXISTING THROUGH PENETRATIONS OF CABLING, CONDUIT, SLEEVES, CABLE TRAYS, ETC., THROUGH FIRE-RATED WALLS AND FLOORS AND OTHER FIRE-RATED PARTITIONS WITHIN THE TELECOM SPACES. FIRESTOP SYSTEMS SHALL CONSIST OF A MATERIAL, OR COMBINATION OF MATERIALS, INSTALLED TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION WITHIN THE TELECOM SPACES.
6. ONE WALL PHONE SHALL BE PROVIDED WITHIN EACH TELECOM SPACE, MOUNTED AT 54" A.F.F.
7. ALL COORDINATION IN THE CEILING AND RAISED FLOOR OF TELECOM SPACES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE CONTRACTOR SHALL PROVIDE, OR UTILIZE EXISTING, KINDORF FRAMING OR VERTICAL LADDER RACK FOR CABLE SUPPORT BEHIND FLOOR-PENETRATING CONDUITS AND SLEEVES IN ALL TELECOM SPACES.
9. TELECOM CONTRACTOR TO COORDINATE LADDER RACK AND/OR KINDORF FRAMING SUPPORT SYSTEM LOCATIONS.
10. ALL ELECTRICAL RECEPTACLES DEDICATED TO ACTIVE EQUIPMENT WITHIN THE TELECOM SPACES SHALL BE WIRED TO EMERGENCY POWER, IF AVAILABLE.
11. ALL TELECOM SPACES SHALL BE PROVIDED WITH A MINIMUM EQUIVALENT OF 500 lux (500 FOOT-CANDLES) MEASURED AT 1'-0" A.F.F.
12. REGARDLESS OF THE INDICATION OF THE TELECOM ROOM DETAILS AND PART PLANS, THE CONTRACTOR SHALL PROVIDE ALL PATCH PANELS AND/OR 110 TYPE BLOCKS AND ALL MISCELLANEOUS TERMINATION HARDWARE REQUIRED TO TERMINATE ALL RISER AND HORIZONTAL CABLING. A MINIMUM 10% SPARE CAPACITY FOR THE AFOREMENTIONED HARDWARE SHALL BE INCLUDED.
13. ALL FIBER STRANDS WITHIN TELECOM SPACES SHALL BE TERMINATED WITH LC CONNECTORS AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS AND THE PERFORMANCE OF THE CABLE.
14. PATCH PANELS FOR COPPER CABLING SHALL BE FORTY-EIGHT (48) PORT AND SHALL HAVE 8-POSITION, 8-CONTACT (8P8C) MODULAR JACKS ON THE FRONT OF THE PANEL AND 110 TYPE TERMINATIONS ON THE BACK. THE PATCH PANELS SHALL FOLLOW THE EIA/TIA 568B WIRING STANDARD. STRAIN RELIEF BRACKETS SHALL BE PROVIDED FOR THE BACK OF EACH PATCH PANEL.

WORK NOTES FOR TELECOMMUNICATIONS WALLFIELDS

1. PLYWOOD BACKBOARDS (BY THE GENERAL CONTRACTOR) SHALL BE PROVIDED ON ALL IDF ROOM PERIMETER WALLS, UNLESS OTHERWISE NOTED. REFER TO THE TELECOM PART PLANS FOR THESE ROOMS FOR ADDITIONAL INFORMATION.
2. PLYWOOD BACKBOARDS WITHIN THE TELECOM SPACES SHALL BE 4'(W) X 8'(H) X 3/4"(D) AND GRADED A–C WITH "A" SIDE FACING OUT. PLYWOOD BACKBOARDS SHALL BE FIRE-RATED AND PAINTED WITH FIRE RETARDANT PAINT. THE FIRE RATING STAMP MUST BE LEFT VISIBLE.
3. TELECOM OUTLETS AND ELECTRICAL RECEPTACLES WITHIN THE TELECOM SPACES SHALL BE FLUSH/SURFACE MOUNTED TO THE PLYWOOD BACKBOARDS AND INSTALLED USING THE APPROPRIATE BACK BOXES.

GROUNDING AND BONDING

THE TELECOMMUNICATIONS GROUNDING/EARTHING SYSTEM SHALL MEET FOLLOWING CRITERIA:

1. LOCAL ELECTRICAL CODES SHALL BE ADHERED TO.
2. THE GROUNDING/EARTHING SYSTEM SHALL COMPLY WITH J-STD-607-A AND ANSI/TIA-942.
3. ALL GROUNDING/EARTHING CONDUCTORS SHALL BE COPPER.
4. LUGS, HTAPS, GROUNDING STRIPS, AND BUSBARS SHALL BE UL LISTED AND MADE OF PREMIUM QUALITY TIN-PLATED ELECTROLYTIC COPPER THAT PROVIDES LOW ELECTRICAL RESISTANCE WHILE INHIBITING CORROSION. ANTIOXIDANT SHALL BE USED WHEN MAKING BONDING CONNECTIONS.
5. WHEREVER POSSIBLE, TWO-HOLE LUGS SHALL BE USED TO RESIST LOOSENING WHEN TWISTED, BUMPED, OR EXPOSED TO VIBRATION. ALL LUGS SHALL BE OF AN IRREVERSIBLE COMPRESSION TYPE AND MEET NEBS LEVEL 3 AS TESTED BY TELCORDIA. LUGS WITH INSPECTION WINDOWS SHALL BE USED IN ALL NON-CORROSIVE ENVIRONMENTS SO THAT CONNECTIONS MAY BE INSPECTED FOR FULL CONDUCTOR INSERTION.
6. DIE INDEX NUMBERS SHALL BE EMBOSSED ON ALL COMPRESSION CONNECTIONS TO ALLOW FOR CRIMP INSPECTION.
7. CABLE ASSEMBLIES SHALL BE UL LISTED AND CSA CERTIFIED. CABLES SHALL BE A DISTINCTIVE GREEN OR GREEN/YELLOW IN COLOR TO SIGNIFY THAT THEY ARE GROUNDING CONDUCTORS, AND ALL JACKETS SHALL BE UL, VW-1 FLAME RATED.
8. A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE LOCATED WITHIN EACH IDF ROOM. THE TGB SHALL BE BONDED TO BUILDING STEEL AND GROUNDED/EARTHED TO THE ELECTRICAL SERVICE GROUND ACCORDING TO J-STD-607-A GUIDELINES.

FIRESTOPPING

1. FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL THROUGH PENETRATIONS OF TELECOMMUNICATIONS CABLING, CONDUIT, SLEEVES, CABLE TRAYS, ETC., THROUGH FIRE-RATED WALLS AND FLOORS AND OTHER FIRE-RATED PARTITIONS. FIRESTOP SYSTEMS SHALL CONSIST OF MECHANICAL OR NON-MECHANICAL MATERIALS, OR COMBINATION OF MATERIALS, INSTALLED TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION BARRIERS.
2. FIRE-STOPPING SYSTEMS AND SOLUTIONS SHALL BE IN ACCORDANCE WITH NFPA 70: NATIONAL ELECTRIC CODE 2011 ARTICLES AND THE AUTHORITY HAVING JURISDICTION (AHJ).
3. WHERE NON-MECHANICAL FIRESTOP SYSTEMS ARE UTILIZED, CONTRACTOR TO PROVIDE PRODUCTS THAT UPON CURING DO NO RE-EMULSIFY, DISSOLVE, BREAKDOWN OR OTHERWISE DETERIORATE OVER TIME FROM EXPOSURE TO ATMOSPHERIC MOISTURE, SWEATING PIPES, PONDING WATER, OR OTHER FORMS OF MOISTURE CHARACTERISTIC DURING OR AFTER CONSTRUCTION.
4. ALL WALL PENETRATIONS FOR CABLE TRAY/LADDER RACK TRANSITIONS SHALL UTILIZE SLEEVES FOR HORIZONTAL CABLING DISTRIBUTION AND FIRESTOPPING.
5. PROVIDE ONLY FIRESTOPPING PRODUCTS THAT HAVE BEEN TESTED FOR SPECIFIC FIRE RESISTANCE RATED CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY TYPE, PENETRATING ITEM TYPE, ANNULAR SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE.
6. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CERTIFY THAT ALL THROUGH PENETRATIONS FOR COMMUNICATIONS CABLING HAVE BEEN SATISFACTORILY SEALED AND FIRE-STOPPED.

CROSS-CONNECTING AND PATCHING SCOPE OF WORK NOTES

1. PATCH CORDS SHALL BE FURNISHED AND INSTALLED FOR EACH NEW TELECOM OUTLET.
2. PATCH CORDS SHALL BE OF THE SAME CABLE QUALITY AND MANUFACTURED BY THE SAME MANUFACTURER AS THE CABLE TO WHICH THEY ARE CONNECTING. FOR BIDDING PURPOSES, THE FOLLOWING BREAKDOWN SHALL BE CONSIDERED FOR THE IDF ROOMS:

   5' – 25%
   7' – 65%
   15' – 10%

   EXACT QUANTITIES BY LENGTH TO BE CONFIRMED WITH OWNER PRIOR TO PURCHASING.
3. WORKSTATION PATCH CORDS SHALL HAVE THE FOLLOWING BREAKDOWN:

   7' – 100%

   EXACT QUANTITIES BY LENGTH TO BE CONFIRMED WITH OWNER PRIOR TO PURCHASING.
4. PATCH CORDS SHALL BE COLOR-CODED. CONTRACTOR TO CONFIRM WITH OWNER PATCH CORD COLORS FOR VARIOUS NETWORK APPLICATIONS (VOICE, DATA, WIFI, AV, ETC.).
5. PATCH PANEL PATCHING SHALL BE PERFORMED STARTING FROM PATCH PANEL PORT NUMBER ONE AND CONTINUING IN CONSECUTIVE ORDER TO THE MAXIMUM EXTENT POSSIBLE.
6. ALL PATCHING SHALL BE NEATLY DRESSED AND TIED USING COLOR CODED VELCRO CABLE TIES.

QUANTITIES:

- (1) TIMES THE NUMBER OF TERMINATED CABLES IN THE IDF ROOMS;
- (1) TIMES THE NUMBER OF TELECOM OUTLET PORTS AT END DEVICE LOCATIONS.

TELECOMMUNICATIONS CABLING AND OUTLET NOTES

1. THE TELECOM RISER CABLING SYSTEM SHALL PROVIDE INTERCONNECTIONS BETWEEN EACH OF THE IDF ROOMS. THE RISER SYSTEM INFRASTRUCTURE SHALL CONSIST OF FIBER OPTIC AND COPPER CABLING, MECHANICAL TERMINATIONS, MAIN AND INTERMEDIATE CROSS-CONNECTS, AND PATCH CORDS USED FOR CROSS-CONNECTION.
2. ALL FIBER RISER CABLING SHALL BE INSIDE PLANT, PLENUM RATED, TIGHT BUFFERED OPTICAL FIBER, WITH FIBER COUNTS AS INDICATED ON DRAWINGS. MULTIMODE FIBER SHALL BE OM3 TYPE, 50/125 MICRON. MECHANICAL AND TRANSMISSION PERFORMANCE SHALL MEET OR EXCEED ANSI/TIA/EIA-568-C.3 SPECIFICATIONS.
3. BRIDGED TAPS, SPLITTERS, SPLICES, ETC. SHALL NOT BE USED AS PART OF ANY BACKBONE CABLING INSTALLATION. ALL BACKBONE CABLING SHALL BE HOMERUN FROM IDF ROOM TO IDF ROOM IN A STRAIGHT TOPOLOGY.
4. THE BACKBONE CABLING SYSTEM SHALL COMPLY WITH THE GENERAL PERFORMANCE STANDARDS OF TIA/EIA-568-C.0, WHEN TESTED ACCORDING TO THE TEST PROCEDURES OF THIS STANDARD.
5. ALL HORIZONTAL QUAD SHIELDED RG-6 COAXIAL CABLING FOR CATV USE SHALL BE TERMINATED WITH "F" TYPE COMPRESSION CONNECTORS AT BOTH ENDS. THE COAXIAL CABLING SHALL BE ROUTED BACK TO THE AV RACK SERVING THE OUTLET AND LEFT COILED WITH 10' OF SLACK FOR CONNECTION TO CATV TUNERS (PERFORMED BY OTHERS).
6. ALL HORIZONTAL COPPER CABLING SHALL BE WHITE IN COLOR AND SHALL BE PLENUM RATED 4-PAIR CATEGORY 6 UTP. ALL HORIZONTAL COPPER CABLING SHALL BE TERMINATED ON CATEGORY 6 UTP PATCH PANELS INSTALLED IN THE TELECOM IDF ROOMS. ALL HORIZONTAL COPPER CABLING AND ALL ASSOCIATED COMPONENTS (I.E. CONNECTORS, FACEPLATES, PATCH PANELS, PATCH CORDS, ETC.) SHALL BE PRODUCTS OF THE FOLLOWING MANUFACTURER'S WARRANTED SOLUTIONS: HUBBELL/MOHAWK
7. ALL NEW HORIZONTAL COPPER DATA CABLING SHALL BE TESTED AND CERTIFIED TO MEET MANUFACTURER'S CAT 6 PERFORMANCE CRITERIA AND SHALL BE COVERED UNDER THE MANUFACTURER'S WARRANTY.
8. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS DESCRIBED IN THIS SECTION.
9. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS SYMBOL SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS DESCRIBED IN THIS SECTION (EVEN IF NO OUTLET TAG HAS BEEN PROVIDED).
10. HORIZONTAL CABLING ROUTED THROUGH ACCESSIBLE CEILING OR UNDER RAISED FLOOR SHALL BE SUPPORTED USING J-HOOKS OFF OF CEILING SUPPORT HANGERS OR RAISED FLOOR PEDESTALS NO MORE THAN 5 FEET APART TO ELIMINATE CABLE STRESS. BUNDLES SHALL NOT EXCEED 3" IN DIAMETER, AND SHOULD BE TIE WRAPPED NO MORE THAN 6 FEET ON CENTER.
11. HORIZONTAL CABLING THAT ROUTES EXPOSED, THAT ROUTES WITHOUT CABLE TRAY SUPPORT, OR THAT BRANCHES OFF OF CABLE TRAY AND/OR KINDORF FRAMING SHALL BE SUPPORTED USING J-HOOKS SECURED NO MORE THAN 5 FEET APART TO ELIMINATE CABLE STRESS. MAXIMUM CABLE SAG BETWEEN J-HOOK SUPPORTS SHALL NOT EXCEED 12". BUNDLES SHALL NOT EXCEED 3" IN DIAMETER, AND SHALL BE TIE WRAPPED NO MORE THAN 6 FEET ON CENTER.
12. REFER TO TELECOM SYMBOL LIST FOR BACK BOX REQUIREMENTS FOR ALL TELECOMMUNICATIONS OUTLETS. IF A BACK BOX IS SHARED BETWEEN THE ELECTRICAL AND TELECOM TRADES, THEN A DIVIDER SHALL BE PROVIDED BETWEEN THE ELECTRICAL AND TELECOM SECTIONS OF THE BOX. TWO GANGS SHALL BE RESERVED FOR TELECOM USE WITHIN THE COMMON ELEC/TELECOM BACK BOX.
13. UNLESS OTHERWISE NOTED, ALL TELECOM OUTLETS SHALL BE PROVIDED WITH A 1-1/4" CONDUIT STUB (PROVIDED BY ELECTRICAL CONTRACTOR). IF REQUIRED BY FIELD CONDITIONS, HOME RUN CONDUITS SHALL BE PROVIDED TO THE TELECOM IDF ROOM.
14. ALL COMMUNICATIONS IN-FEEDS TO FURNITURE SYSTEMS SHALL BE COORDINATED WITH THE FURNITURE SYSTEM VENDOR.
15. CONTRACTOR TO PROVIDE WHITE SELF-LAMINATING ADHESIVE LABELS, MACHINE PRINTABLE WITH A LASER PRINTER, FOR ALL HORIZONTAL CABLING AND HORIZONTAL CABLING TERMINATION LOCATIONS (FACEPLATES, PATCH PANELS, ETC.).
16. REFER TO THE TELECOMMUNICATIONS DETAILS SHEETS FOR FACEPLATE DETAILS, JACK POSITION ASSIGNMENTS, AND MORE INFORMATION.
17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES.

DIVISION OF RESPONSIBILITY

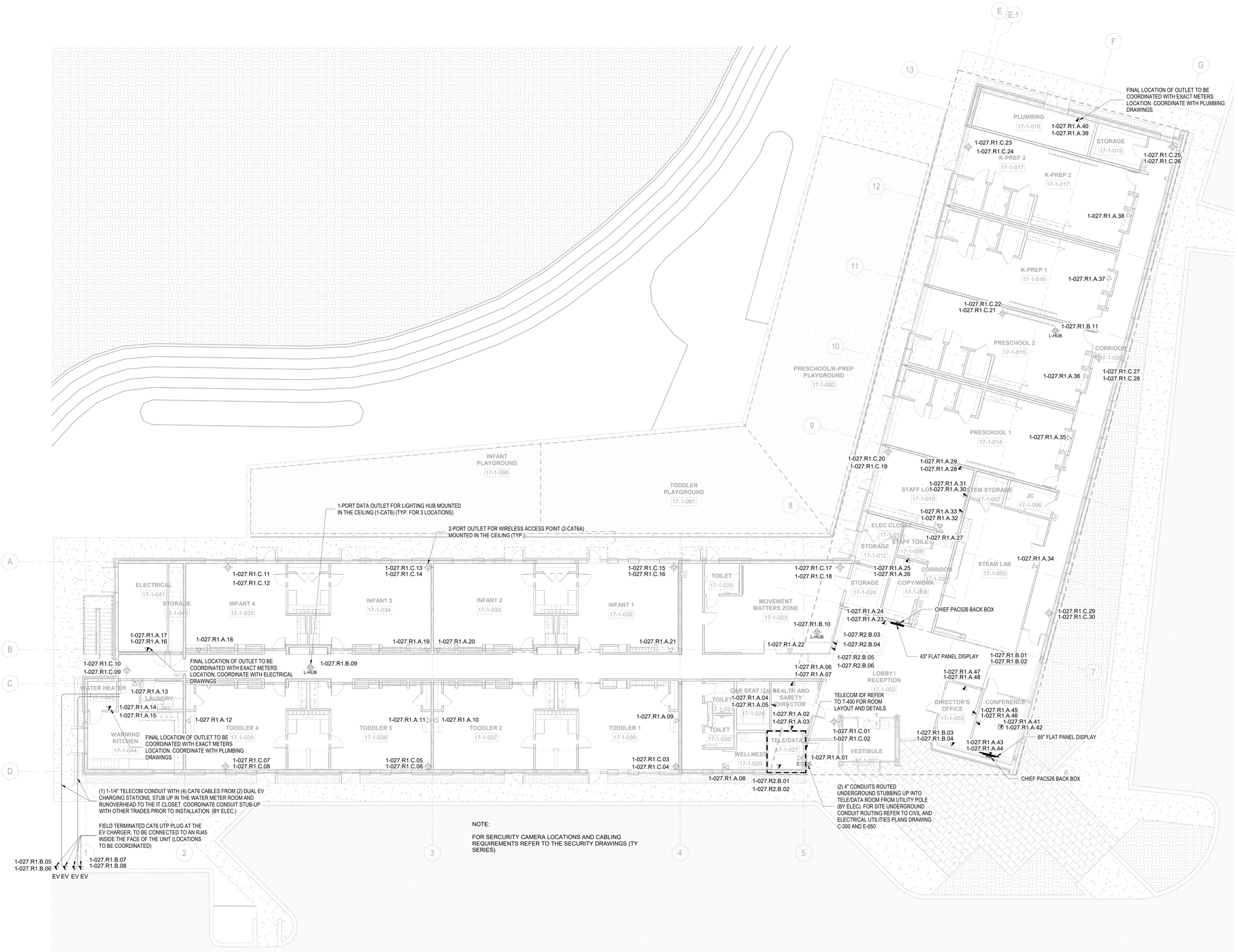
CATEGORY	DESCRIPTION	T.C.	CLIENT	G.C.	E.C.
IT PATHWAYS	CONDUITS, SLEEVES, PULLBOXES, STUB-UPS, BACKBOXES, FRAMED WALL OPENINGS				F/I
IT PATHWAYS	FURNITURE INFEEDS FROM WALL				F/I
IT PATHWAYS	FURNITURE INFEEDS FROM FLOOR				F/I
IDF ROOM FITOUT	PLYWOOD BACKBOARDS			F/I	
IDF ROOM FITOUT	POWER FOR EQUIPMENT RACKS				F/I
IDF ROOM FITOUT	GROUNDING BUSBAR				F/I
IDF ROOM FITOUT	GENERAL CONVENIENCE POWER				F/I
IDF ROOM FITOUT	TELECOM EQUIPMENT RACKS, LADDER RACK	F/I			
IDF ROOM FITOUT	HORIZONTAL/VERTICAL WIRE MANAGERS	F/I			
IDF ROOM FITOUT	COPPER/FIBER PATCH PANELS	F/I			
IDF ROOM FITOUT	COPPER/FIBER PATCH CORDS	F/I			
IDF ROOM EQUIPMENT	LAN EQUIPMENT (SWITCHES, SERVERS, ETC.)		F/I		
IDF ROOM EQUIPMENT	WAN EQUIPMENT (ROUTERS, FIREWALLS, ETC.)		F/I		
IDF ROOM EQUIPMENT	UNINTERRUPTIBLE POWER SUPPLIES (UPS)		F/I		
FLOOR FITOUT	VOICE/DATA COMMUNICATIONS CABLING	F/I			
FLOOR FITOUT	CABLING CONNECTORS & FACEPLATES	F/I			
FLOOR FITOUT	WORKSTATION CABLES (PATCH CORDS)	F/I			
FLOOR FITOUT	WIRELESS ACCESS POINTS	I	F		
FLOOR FITOUT	PHONES, PCs, WORKSTATIONS		F/I		

F = FURNISH
I = INSTALL
F/I = FURNISH AND INSTALL

T.C. = TELECOM CONTRACTOR
G.C. = GENERAL CONTRACTOR
E.C. = ELECTRICAL CONTRACTOR

TELECOMMUNICATIONS LIST OF DRAWINGS

DWG. #	DRAWING NAME
T-001	TELECOMMUNICATIONS GENERAL NOTES, SYMBOLS AND DRAWINGS LIST
T-100	TELECOM



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Structural Engineer

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Key Plan

No.	Date	Description
0	06.20.2022	100% CONSTRUCTION DOCUMENTS
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Drawn By: PG

TELECOM LEVEL 01 PLAN

Scale: 1/8" = 1'-0" Floor:

T-100

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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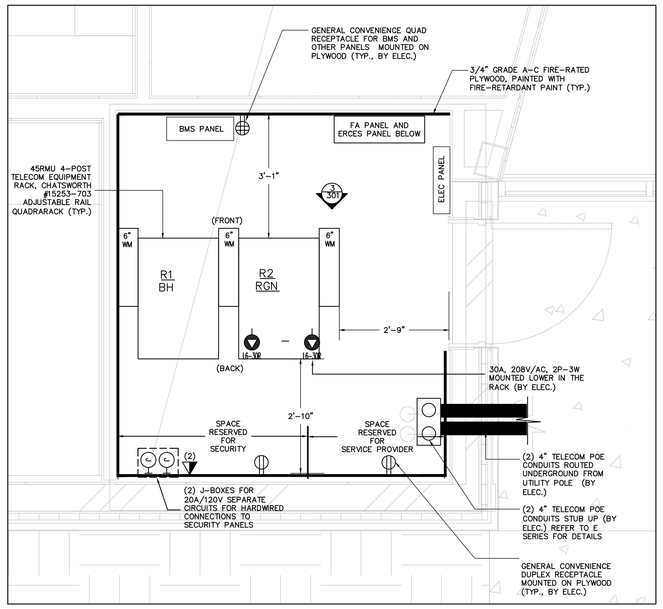
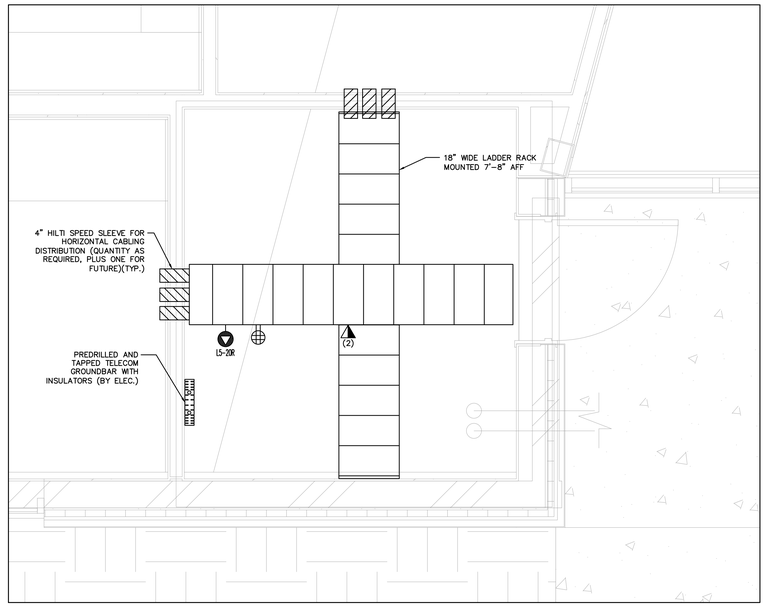
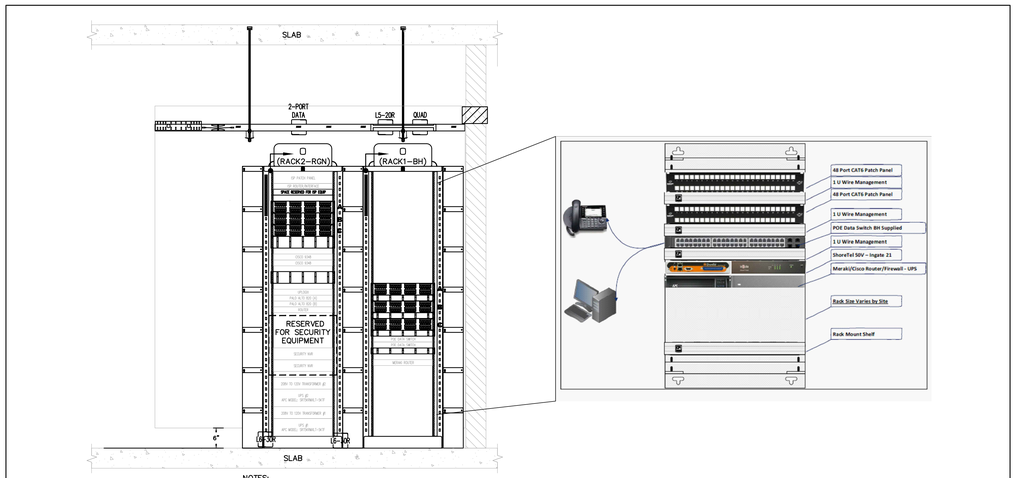
FILE: BIM 360://006.3608.000 - Regeneron, Day Care Facility Tarrytown/210104_TTCX Daycare_IT_2020.rvt PLOTTED ON 11/17/21



1 IDF ROOM LAYOUT
3/4" = 1'-0"



2 IDF ROOM RCP LAYOUT
3/4" = 1'-0"



NOTES:

ALL CAMERAS TO RUN TO RGN RACK
ALL WAPS TO RUN TO BH RACK

3 IDF ROOM RACK ELEVATIONS
3/4" = 1'-0"

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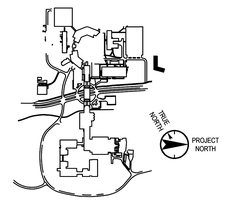

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Plot Date: 07.01.2022

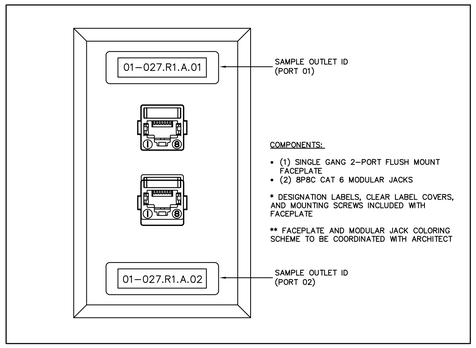
Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: TELECOM Drawn By: PG

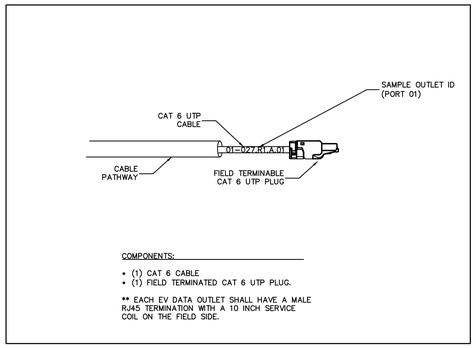
TELECOM IDF ROOM LAYOUT AND ELEVATIONS

Scale: AS NOTED Floor:

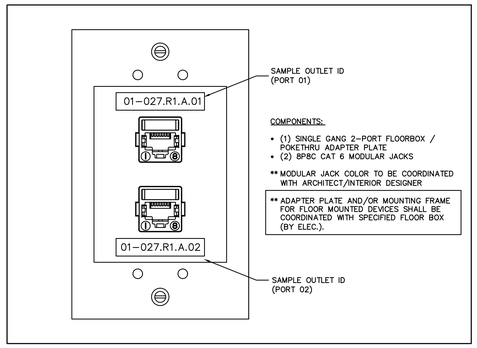
T-400



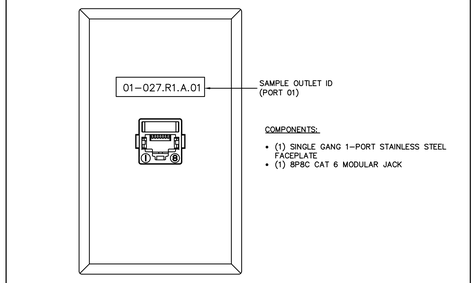
2-PORT VOICE/DATA OUTLET
NOT TO SCALE
01



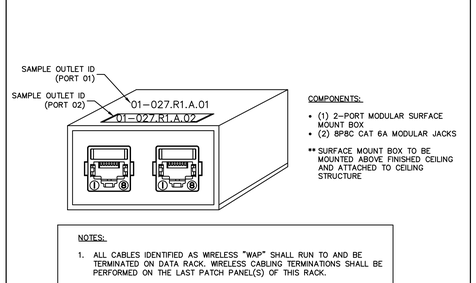
EV 1-PORT DATA PLUG FOR EV CHARGING STATION
NOT TO SCALE
01



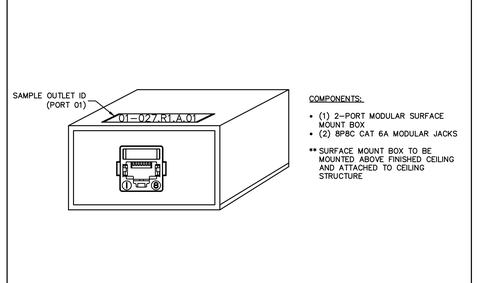
FLOOR MTD. 2-PORT VOICE/DATA OUTLET
NOT TO SCALE
03



WALL MTD. 1-PORT VOICE OUTLET
NOT TO SCALE
04



CEILING MOUNTED 2-PORT WIRELESS ACCESS POINT OUTLET
NOT TO SCALE
07



L-HUB CEILING MOUNTED 1-PORT LIGHTING HUB OUTLET
NOT TO SCALE
07

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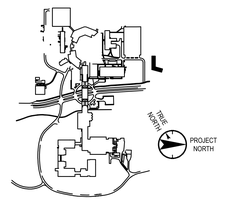

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Plot Date: 07.01.2022

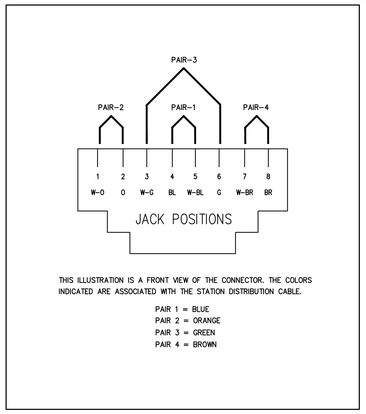
Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: TELECOM Drawn By: PG

TELECOM DETAILS SHEET #1

Scale: N.T.S. Floor:

T-500



8 POSITION JACK PIN/PAIR ASSIGNMENTS (DESIGNATION T568B) — 01
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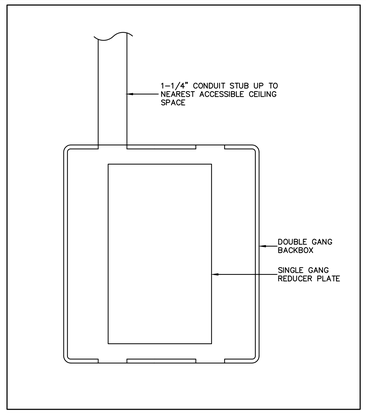

TYPICAL BACKBOX FOR WALL-MOUNTED TELECOM OUTLET LOCATIONS — 02
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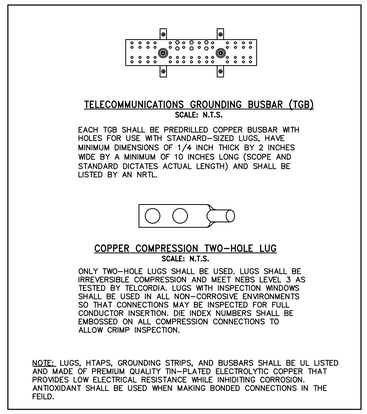
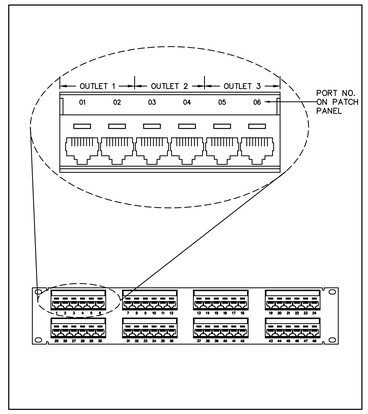
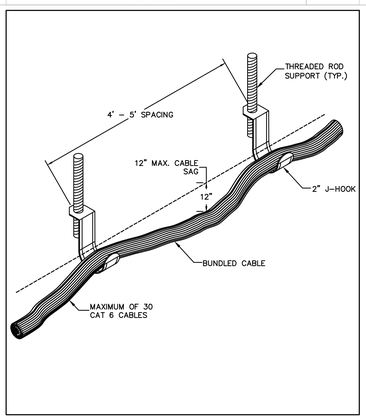


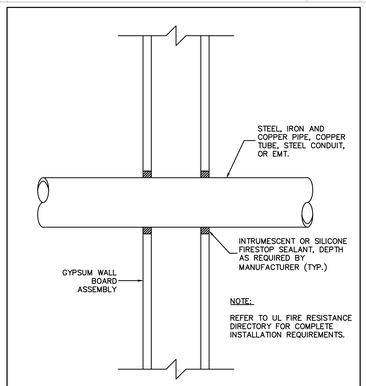
GROUNDING BUSBAR DETAILS AND NOTES — 03
NOT TO SCALE



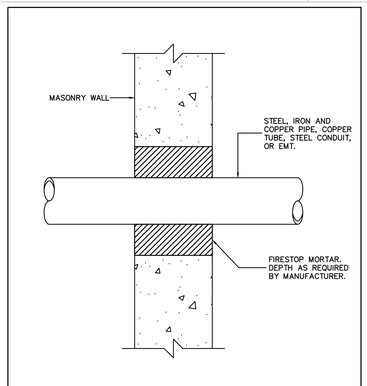
TYPICAL PATCH PANEL LABELLING SCHEME — 04
NOT TO SCALE



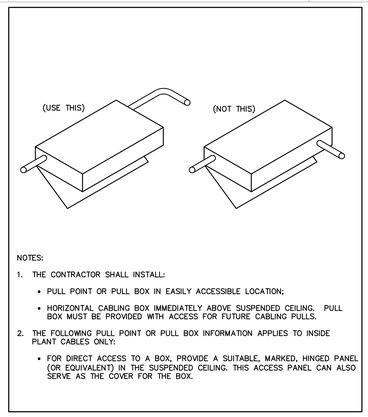
J-HOOK SUPPORT DETAIL — 05
NOT TO SCALE



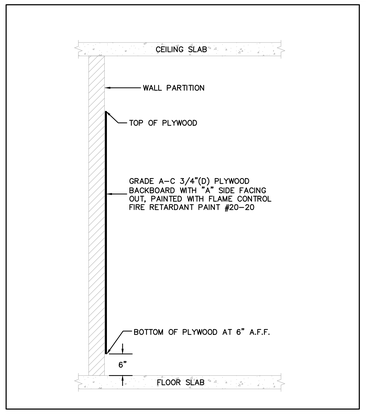
METALLIC PIPE THROUGH GYPSUM WALL BOARD WITH FIRE RATED SEALANT — 06
NOT TO SCALE



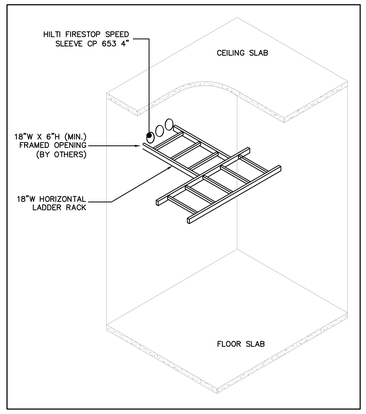
METALLIC PIPE THROUGH CONCRETE WALL WITH FIRE RATED SEALANT — 07
NOT TO SCALE



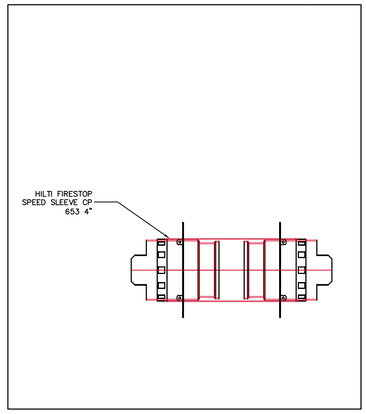
PULLBOX INSTALLATION FOR CONDUIT RUNS — 08
NOT TO SCALE



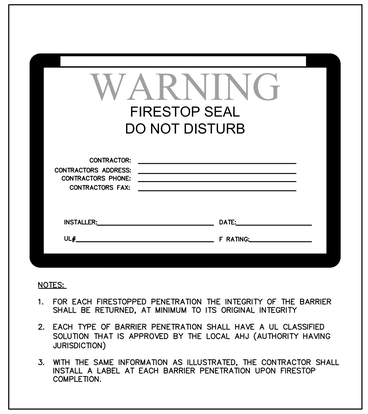
TYPICAL TELECOM ROOM WALLFIELD CONSTRUCTION — 09
NOT TO SCALE



LADDER RACK PENETRATION THROUGH TELECOM ROOM FRAMED OPENING — 10
NOT TO SCALE



TYPICAL IT ROOM WALL PENETRATION 4" HILTI SPEED SLEEVE DETAIL — 11
NOT TO SCALE



FIRESTOP SEAL — 12
NOT TO SCALE

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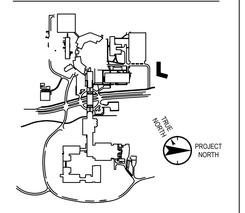

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Plot Date: 07.01.2022

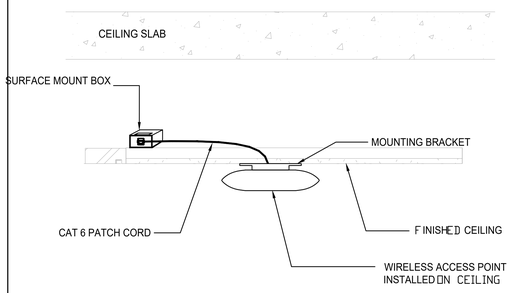
Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: TELECOM Drawn By: PG

TELECOM DETAILS SHEET #2

Scale: N.T.S. Floor:

T-501



NOTES:

1. ARCHITECTURAL FINISHES AND DETAIL VARY DEPENDING ON BUILDING CEILING CONDITION. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

2. REFER TO IT FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF WAP DEVICES.

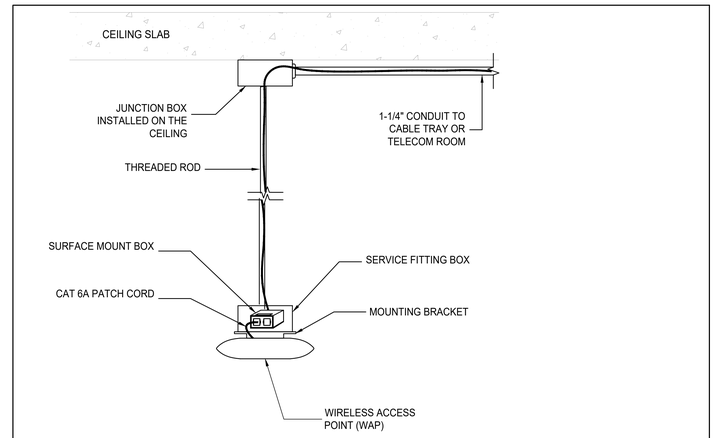
3. TELECOM CONTRACTOR TO INCLUDE ALL MOUNTING ACCESSORIES REQUIRED TO MOUNT WAP AND EXTERNAL ANTENNA, IF NECESSARY. COORDINATE MOUNTING REQUIREMENTS WITH CEILING INSTALLER.

4. REFER TO SPECIFICATIONS FOR ADDITIONAL WLAN REQUIREMENTS, MATERIALS LIST, AND INSTALLATION PARAMETERS.

FINISHED CEILING WIRELESS ACCESS POINT INSTALLATION

NOT TO SCALE

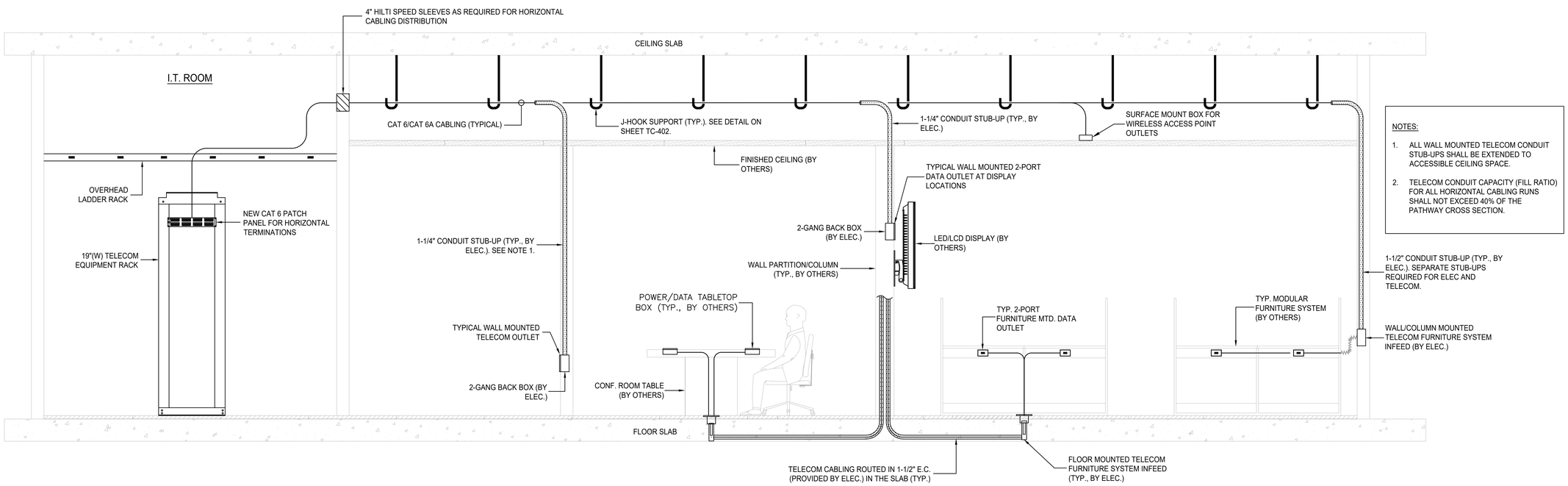
01



OPEN CEILING WIRELESS ACCESS POINT INSTALLATION

NOT TO SCALE

02



NOTES:

1. ALL WALL MOUNTED TELECOM CONDUIT STUB-UPS SHALL BE EXTENDED TO ACCESSIBLE CEILING SPACE.
2. TELECOM CONDUIT CAPACITY (FILL RATIO) FOR ALL HORIZONTAL CABLING RUNS SHALL NOT EXCEED 40% OF THE PATHWAY CROSS SECTION.

TYPICAL HORIZONTAL CABLING DISTRIBUTION SCHEME (FLOOR SECTION VIEW)

NOT TO SCALE

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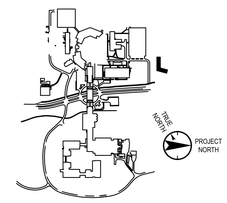

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Plot Date: 07.01.2022

Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: TELECOM Drawn By: PG

TELECOM CABLING DISTRIBUTION DIAGRAM AND DETAILS

Scale: N.T.S. Floor:

T-700