

**TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714**

DESIGN DEVELOPMENT

CONSULTING ENGINEER:

**TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714**

ISSUED - 04.15.2024

SCOPE OF WORK - TENANT IMPROVEMENT

NO CHANGES PROPOSED FOR BUILDING TYPE OR OCCUPANCY GROUP

1. NEW
 - SALES AREA FIXTURES
 - FINISHES IN SALES AREA AND BACK OF HOUSE
 - WATER CLOSET FIXTURE REPLACEMENT AND SINK FAUCET
 - LIGHTING, EM LIGHTING AND EXIT SIGNS IN SALES AREA AND BOH.
 - TOILET ROOM WALL CONCERNE

- TOILET ROOM WALL SCONCE

2. EXISTING TO REMAIN

 - STOREFRONT
 - STOREFRONT DOOR(S)
 - INTERIOR PARTITIONS AND DOORS
 - EXTERIOR SERVICE DOOR(S)
 - LIGHTING, EM LIGHTING, AND EXIT SIGNS IN INVENTORY/TELCO
 - INTERIOR PARTITIONS AND DOORS
 - TOILET ROOM SINK(S)
 - MECHANICAL SYSTEM
 - ELECTRICAL DATA RACK
 - FIRE SAFETY EQUIPMENT
 - DRINKING FOUNTAIN
 - UTILITY SINK
 - MOP SINK
 - WATER HEATER

193

CORPORATE NEW CD

RMC

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

G000

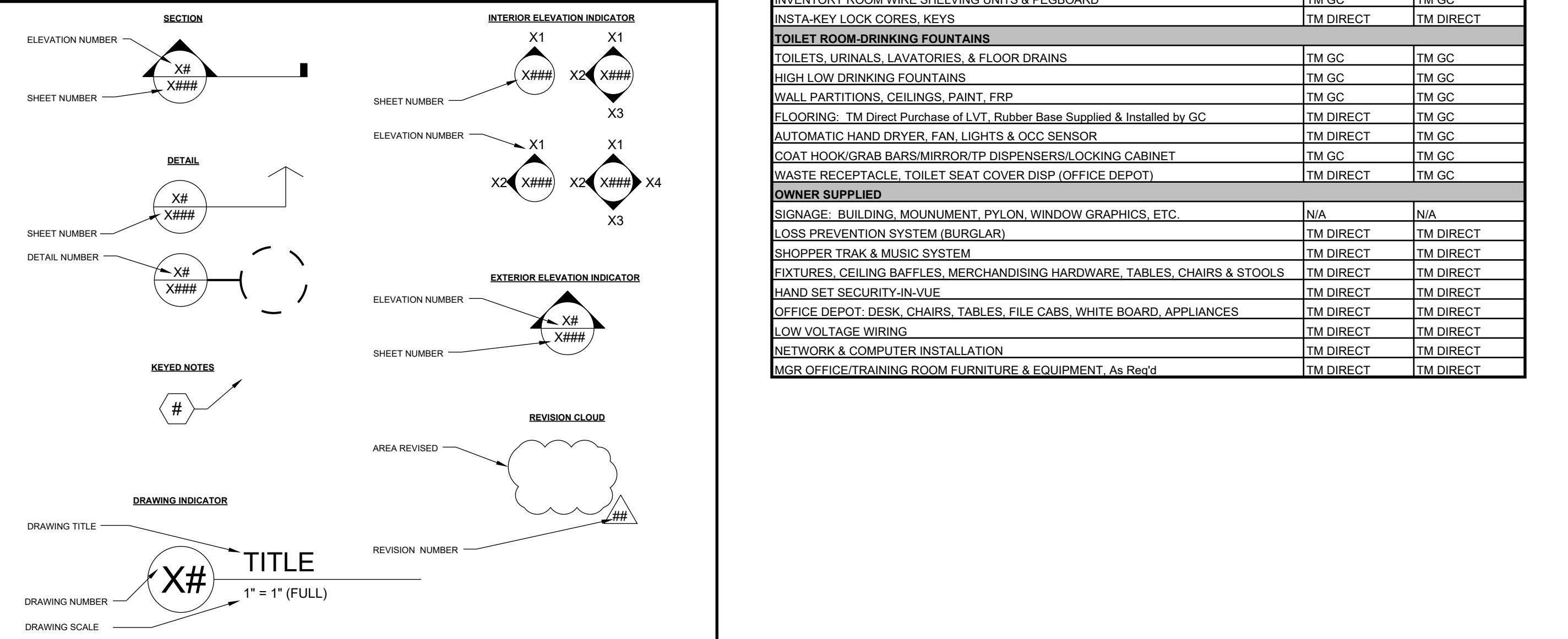
GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION.
 2. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE BUILDING MANAGEMENT'S RULES AND REGULATIONS.
 3. NOTIFICATIONS TO THE BASE BUILDING STRUCTURE, CORE AREAS, AND UTILITY SYSTEMS ARE NOT IN THIS CONTRACT, EXCEPT AS NOTED ON THESE DRAWINGS OR AS REQUIRED TO COMPLETE THE WORK INDICATED ON THESE DRAWINGS.
 4. THE CONTRACTOR SHALL TAKE ALL ARRANGEMENTS AND PAY FOR ALL FEES AND PERMITS REQUIRED, AS WELL AS ANY ADDITIONAL CHARGES FOR HAULING, RIGGING, AIR TRANSPORTATION CHARGES.
 5. THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN T-MOBILE AND G.C., HEREBY AFTER REFERRED TO AS THE "CONTRACT," AND ITS ATTACHMENTS (EXHIBITS, APPENDIXES, AND OTHER CONDITIONS) LISTED IN THE AGREEMENT, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE AGREEMENT.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTORS. PERFORMANCE BY THE G.C. SHALL BE REQUIRED ONLY TO EXTENT CONSIDERED NECESSARY BY THE CONTRACT DOCUMENTS AS REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE CONTRACT DOCUMENTS.
 7. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND (1) BETWEEN THE ARCHITECT AND G.C., (2) BETWEEN THE ARCHITECT AND SUBCONTRACTOR OR SUB-SUBCONTRACTOR, OR (3) BETWEEN THE CONTRACTOR AND G.C. OR OTHER THAN T-MOBILE AND G.C.
 8. EXECUTION OF THE CONTRACT IS A REPRESENTATION THAT THE G.C. HAS VISITED THE SITE AND HAS COMMENCED WORK WITHIN THE CONTRACT DOCUMENTS.
 9. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK AND SHALL NOTIFY ARCHITECT AND/OR ENGINEER IF A CONDITION EXISTS WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE WORK.
 10. THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, WHICH INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES PROVIDED BY THE CONTRACTOR TO FULLFILL THE G.C.'S OBLIGATION. THE WORK MAY CONSTITUTE THE WHOLE OR PART OF THE PROJECT.
 11. G.C. SHALL NOT CUT OR DESTROY EXISTING STRUCTURAL SYSTEM. THE G.C. SHALL X-RAY/PACHEMETER SLAB TO DETERMINE TENSIONED SLAB OR IF DESIGN IS IN CONFLICT WITH EXISTING STRUCTURAL SYSTEMS WHEN THE FOLLOWING OCCUR:
 12. TENANT SPACE IS LOCATED ON SECOND FLOOR OR ABOVE
 13. EXISTING CONCRETE SLAB IS LOCATED ON ROOF
 14. ABSENCE OF STRUCTURAL DRAWINGS FROM ARCHITECTS AND/OR LANDLORD
 15. G.C. SHALL ONLY INCLUDE EXISTING DRAWINGS INCLUDED WITH CONTRACT DOCUMENTS
 16. PROVIDE CONCRETE CONSTRUCTION, PER-FORM ALL REQUIRED CLEANINGS AS PER CONTRACT DOCUMENTS, NOT LIMITED TO ALL STOREFRONTS, WINDOWS, MULLIONS, CEILINGS, SUPPLY/RETURN AIR GRILLS, FLOORING AND FLOOR WAX, TOILET ROOMS, TOILET ROOM CAULKING, AND WALK-OFF MAT. REMOVE ALL TRASH AND DEBRIS FROM THE SITE.
 17. IN PROJECT TEAM
 18. PROVIDE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS IN TYPE, NUMBER, AND LOCATION AS DIRECTED BY THE FIRE DEPARTMENT FIELD INSPECTOR.

ABBREVIATIONS

ACP	ACOUSTICAL CEILING
ADJ.	ADJACENT
AL.	ALUMINUM
ALUM.	ALUMINUM
APX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BB.	BOARD
BLDG.	BUILDING
BLO.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
CAB.	CABINET
CEM.	CEMENT
CERT.	CERTIFIED
CLG.	CEILING
CLR.	CLEAR
CMU.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONNECTION
CONTINUOUS	CONTINUOUS
CPT.	CAVEAT
CTR.	CENTER
DET.	DETAIL
DIA.	DIAMETER
DIFF.	DIFFUSER
DIM.	DIMENSION
DWGS.	DRAWINGS
EA.	EACH
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
ELEC.	ELECTRICAL
EM.	EMERGENCY
EQUIP.	EQUIPMENT
EWC.	ELECTRIC WATER COOLER
EXH.	EXHAUST
EXTIR.	EXTINGUISHED
FIRE	FIRE
FLR.	FLOOR
F.R.P.	FIBER GLASS REINFORCED POLYESTER PANEL
F.R.T.	FIRE RETARDANT TREATED
GALV.	GALVANIZED
GND.GRN.	GROUND
GYP.	GYPSUM
H.D.W.	Hardware
H.M.	HOLLOW METAL
HR.	HEIGHT
H.V.A.C.	HEATING, VENTILATING, AIR CONDITIONING
J.H.A.	JURISDICTION HAVING AUTHORITY
LAM.	LAMINATE
LAV.	LAVATORY
LIN.	LINOLEUM
LT.	LIGHT
L.V.T.	LUXURY VINYL TILE
MAG.	MAGNET
MECH.	MECHANICAL
MTL.	METAL
MGR.	MGR.
MFR.	MANUFACTURER
MIN.	MINIMUM
MIS.	MISCELLANEOUS
MTC.	MOUNTED
N.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF.	OFFICE
OPWD.	OPEN PORE
PLYWD.	PLYWOOD
PNL.	PANEL
PROP.	PROPERTY
P.T.	PRESSURE TREATED
PTC.	POWER TREATMENT
R.	RADIUS
REQD.	REQUIRED
R.O.	ROUGH OPENING
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SQ FT.	SQUARE FEET
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
TEL.	TELEPHONE
TELCO.	TELE-COMMUNICATIONS
TMO.	TIME
TP.	TOP
TPC.	TOPICAL
UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
U.O.N.	U.O.N.
VIT.	VITRO
W/	WITH
WD.	WOOD
WP.	WATERPROOF
WT.	WEIGHT

SHEET SYMBOLS

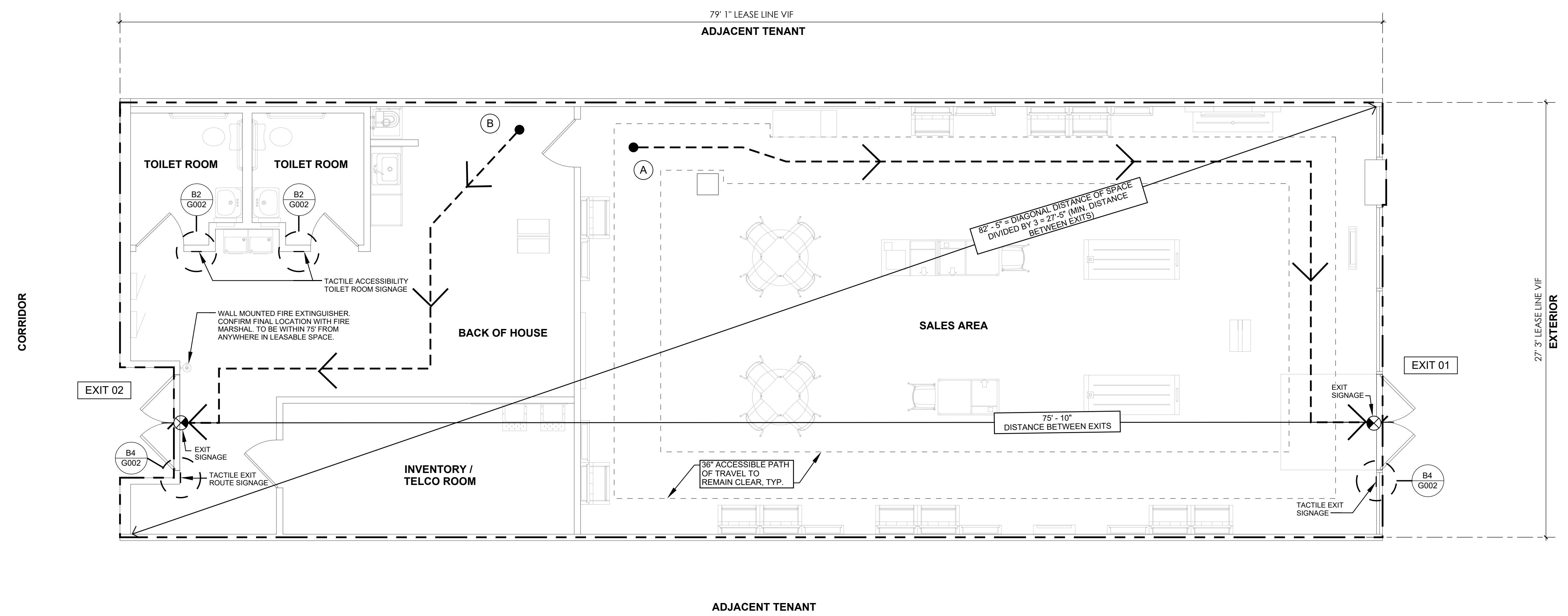


RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY	INSTALLED BY		
GENERAL				
OBTAIN ALL APPLICABLE PERMITS AND CERTIFICATE OF OCCUPANCY	TM GC	TM GC		
UTILITY FEES (IF NEW CONSTRUCTION)	N/A	N/A		
UTILITY SERVICE(S) AND METER(S)	EXISTING	EXISTING		
ALL HAZARDOUS MATERIALS REPORTS (IF REQUIRED)	TM GC	TM GC		
CORE, SHELL, AND SITE WORK				
EXTERIOR SIGNAGE BLOCKING	N/A	N/A		
DEMOLITION - SITE/BUILDING	N/A	N/A		
STRUCTURE AND ROOF	EXISTING	EXISTING		
ROOF PENETRATIONS & REPAIRS, RARE, ONLY IF REQD FOR NEW PLUMBING VENTS	TM GC	TM GC		
EXTERIOR WALLS/REPAIRS	N/A	N/A		
EXIT DOOR NEW OR REPAIR AS NOTED PER PLANS	TM GC	TM GC		
TRIDENT EXIT DOOR LOCK	TM DIRECT	TM DIRECT		
TELEPHONE SERVICE ESTABLISHED BETWEEN THE STREET & DEMARC	EXISTING	EXISTING		
PLUMBING MAIN SERVICE	EXISTING	EXISTING		
SPRINKLER MAINS	EXISTING	EXISTING		
FIRE ALARM PANEL	EXISTING	EXISTING		
CONCRETE SLAB	EXISTING	EXISTING		
EXTERIOR STOREFRONT SYSTEM AND GLAZING	EXISTING	EXISTING		
OPAQUE WINDOW FILM - Installed on Glass Covered By Framing as Required	TM GC	TM GC		
DEMISING WALL STUDS	EXISTING	EXISTING		
DEMISING WALL SECURITY MESH	TM GC	TM GC		
DEMISING WALL / PATCH & REPAIR AS REQUIRED	TM GC	TM GC		
SITE ACCESSIBILITY & SIDEWALKS	EXISTING	EXISTING		
PARKING LOT PAVING AND STRIPING	EXISTING	EXISTING		
INTERIOR MALLS, AS REQUIRED				
BARRICADES	TM GC	TM GC		
BARRICADE GRAPHICS	TM DIRECT	TM DIRECT		
MALL TILE AROUND STOREFRONT	TM GC	TM GC		
NEUTRAL PIERS, NEW OR REPAIR EXISTING PER PLAN	TM GC	TM GC		
REVEALS	TM GC	TM GC		
MALL STOREFRONT SYSTEMS, INCLUDES GLAZING & FINISHES	TM GC	TM GC		
INTERIOR TENANT BUILD-OUT				
DEMOLITION - INTERIOR	TM GC	TM GC		
WALL PARTITION SALES AREA TO BOH WITH DOOR & HDW	TM GC	TM GC		
TRILOGY LOCK ON BOH PARTITION	TM DIRECT	TM DIRECT		
INVENTORY ROOM WALLS/CEILINGS, INCLUDES MESH, CEMENT BOARD, AND DOOR/HDW	TM GC	TM GC		
POLICE LOCK & LEVER SET ON INVENTORY ROOM DOOR	TM DIRECT	TM DIRECT		
TRAINING ROOM, OFFICE, CONFERENCE ROOM, As Required	TM GC	TM GC		
ALL ADDITIONAL WALL PARTITIONS & FURRING	TM GC	TM GC		
MISC. WOOD BLOCKING, FIXTURE BACKING & UNISTRUT FOR BAFFELS	TM GC	TM GC		
GYPSUM BOARD CURTAINS WALLS, CEILINGS, SOFFITS, ACCESS PANELS	TM GC	TM GC		
ACOUSTICAL CEILING & GRID, NOTE: Black on Sales Floor, White in BOH	TM GC	TM GC		
ELECTRICAL TRANSFORMERS (IF REQUIRED)	EXISTING	EXISTING		
ELECTRICAL SYSTEM - MAIN PANEL, Revise/Prep/As required	TM GC	TM GC		
ELECTRICAL SYSTEM - SUB PANEL(S) As Required	TM GC	TM GC		
LIGHTING SYSTEM - SALES AREA	TM DIRECT	TM GC		
LIGHTING SYSTEM - BACK OF HOUSE	TM DIRECT	TM GC		
ELECTRICAL WIRING, OUTLETS	TM GC	TM GC		
ELECTRICAL CONNECTIONS TO T-MOBILE SUPPLIED FIXTURES	TM GC	TM GC		
LIGHTING INVERTER, LCP, TVs, SWITCHES, SENSORS, DIMMERS	TM DIRECT	TM GC		
ENERGY MANAGEMENT SYSTEM AND SENSORS (IF REQUIRED)	TM GC	TM GC		
LOW VOLTAGE CONDUIT	TM GC	TM GC		
LOW VOLTAGE WIRING	TM DIRECT	TM DIRECT		
FOR EXIT PATH OF TRAVEL SEE EGRESS PLAN ON SHEET G101				
EXIT REQUIREMENTS				
TWO EXITS REQUIRED WHEN OCCUPANT LOAD IS GREATER THAN 49 OR COMMON PATH OF TRAVEL EXCEEDS 75FT				
PLUMBING FIXTURE REQUIREMENTS				
MIN. # OF FIXTURES	29	+ 2 =	15M	15 W
FIXTURE				
WATER CLOSET	15 M	15 W	1	2
LAVATORY	15 M	15 W	1	2
SEPARATE FACILITIES	-	-	NO	NO
DRINKING FOUNTAIN	1000		1	1
SERVICE SINK	-		1	1
SEPARATE FACILITIES SHALL NOT BE REQUIRED IN MERCANTILE OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 50 OR LESS				
EXIT ILLUMINATION				
EMERGENCY EXIT ILLUMINATION SHALL BE PROVIDED AS SHOWN ON SHEET E111.				
MUNICIPAL REVIEW				
NILES				
BUILDING DIVISION				
1000 CIVIC CENTER DRIVE				
NILES, IL 60714				
(847) 588-8000				
WORK BY OTHERS UNDER SEPARATE PERMIT				
FIRE SPRINKLER DRAWINGS				
FIRE ALARM				
IF BUILDING IS SPRINKLERED, G.C. IS TO PROVIDE SPRINKLER DESIGN/ BUILD DRAWINGS BY A CERTIFIED SPRINKLER INSTALLER AND OBTAIN PERMIT.				
PROVIDE CONCEALED SPRINKLER HEADS, FINISH TO MATCH CEILING COLOR, PROVIDE PENDANT TYPE FOR OPEN CEILINGS.				
ALL REQUIRED PERMITS AND APPROVALS MUST BE OBTAINED FROM THE FIRE DEPARTMENT BEFORE SPACE IS OCCUPIED.				
OWNER SUPPLIED				
SIGNAGE, BUILDING, MOUNNTEN, PYLON, WINDOW GRAPHICS, ETC.	N/A	N/A		
LOSS PREVENTION SYSTEM (BURGLAR)	TM DIRECT	TM DIRECT		
SHOPPER TRAK & MUSIC SYSTEM	TM DIRECT	TM DIRECT		
FIXTURES, CEILING BAFFLES, MERCHANDISING HARDWARE, TABLES, CHAIRS & STOOLS	TM DIRECT	TM DIRECT		
HAND SET SECURITY-IN-VUE	TM DIRECT	TM DIRECT		
OFFICE DEPOT- DESK, CHAIRS, TABLES, FILE CABBS, WHITE BOARD, APPLIANCES	TM DIRECT	TM DIRECT		
LOW VOLTAGE WIRING	TM DIRECT	TM DIRECT		
NETWORK & COMPUTER INSTALLATION	TM DIRECT	TM DIRECT		
OWNER SUPPLIED				
FIRE SPRINKLER DRAWINGS				
FIRE ALARM				
IF BUILDING IS SPRINKLERED, G.C. IS TO PROVIDE SPRINKLER DESIGN/ BUILD DRAWINGS BY A CERTIFIED SPRINKLER INSTALLER AND OBTAIN PERMIT.				
PROVIDE CONCEALED SPRINKLER HEADS, FINISH TO MATCH CEILING COLOR, PROVIDE PENDANT TYPE FOR OPEN CEILINGS.				
ALL REQUIRED PERMITS AND APPROVALS MUST BE OBTAINED FROM THE FIRE DEPARTMENT BEFORE SPACE IS OCCUPIED.				

CODE ANALYSIS

PROJECT DESCRIPTION		
TENANT IMPROVEMENT		
MOBILE PHONE & SERVICE SALES (RETAIL)		
REFER TO EGRESS PLAN ON G101		
PROJECT LOCATION		
TOUCHY AVE AND CENTRAL AVE		
5710 W TOUCHY AVE		
SPACE A-4B		

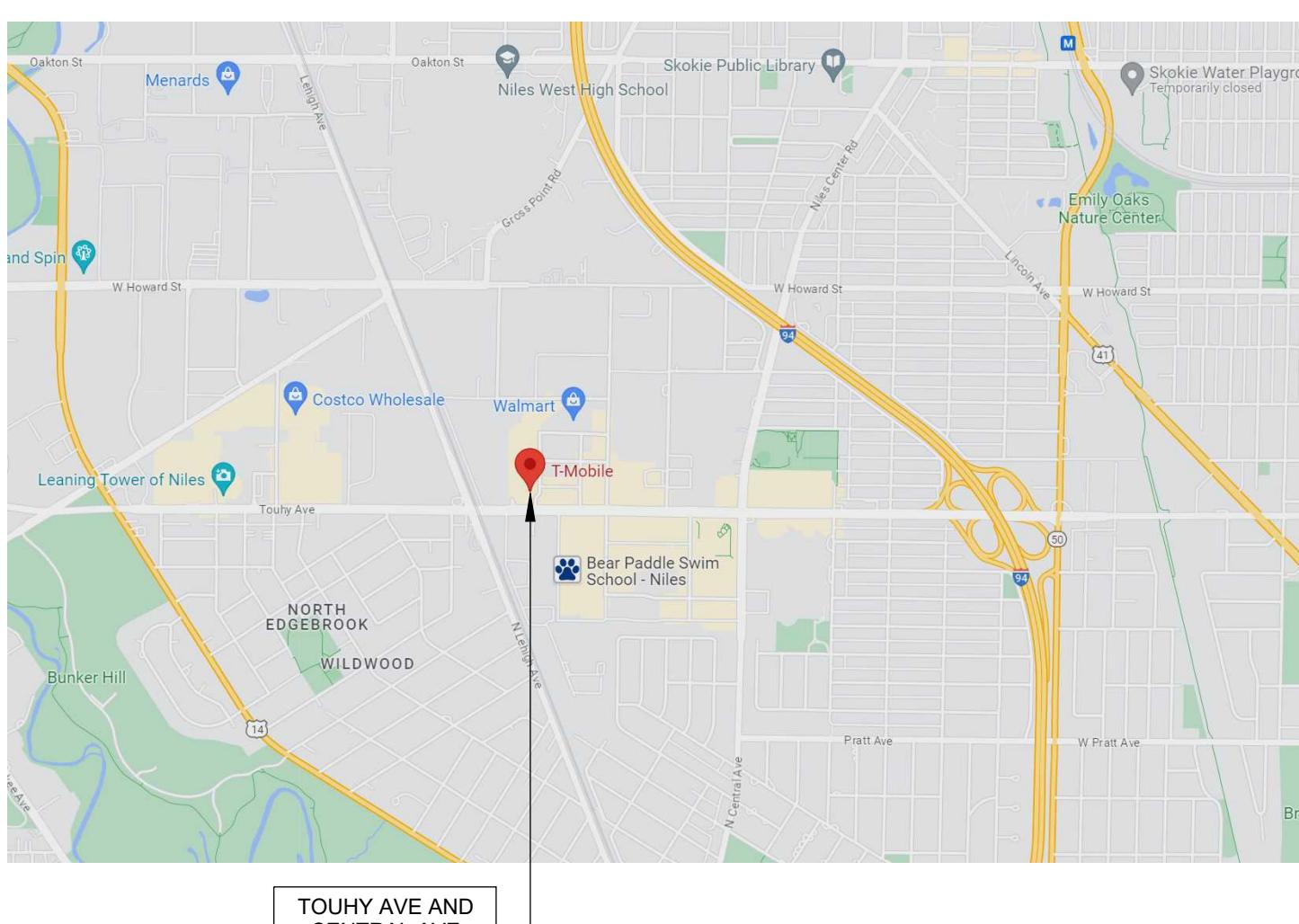


B4 LIFE SAFETY PLAN

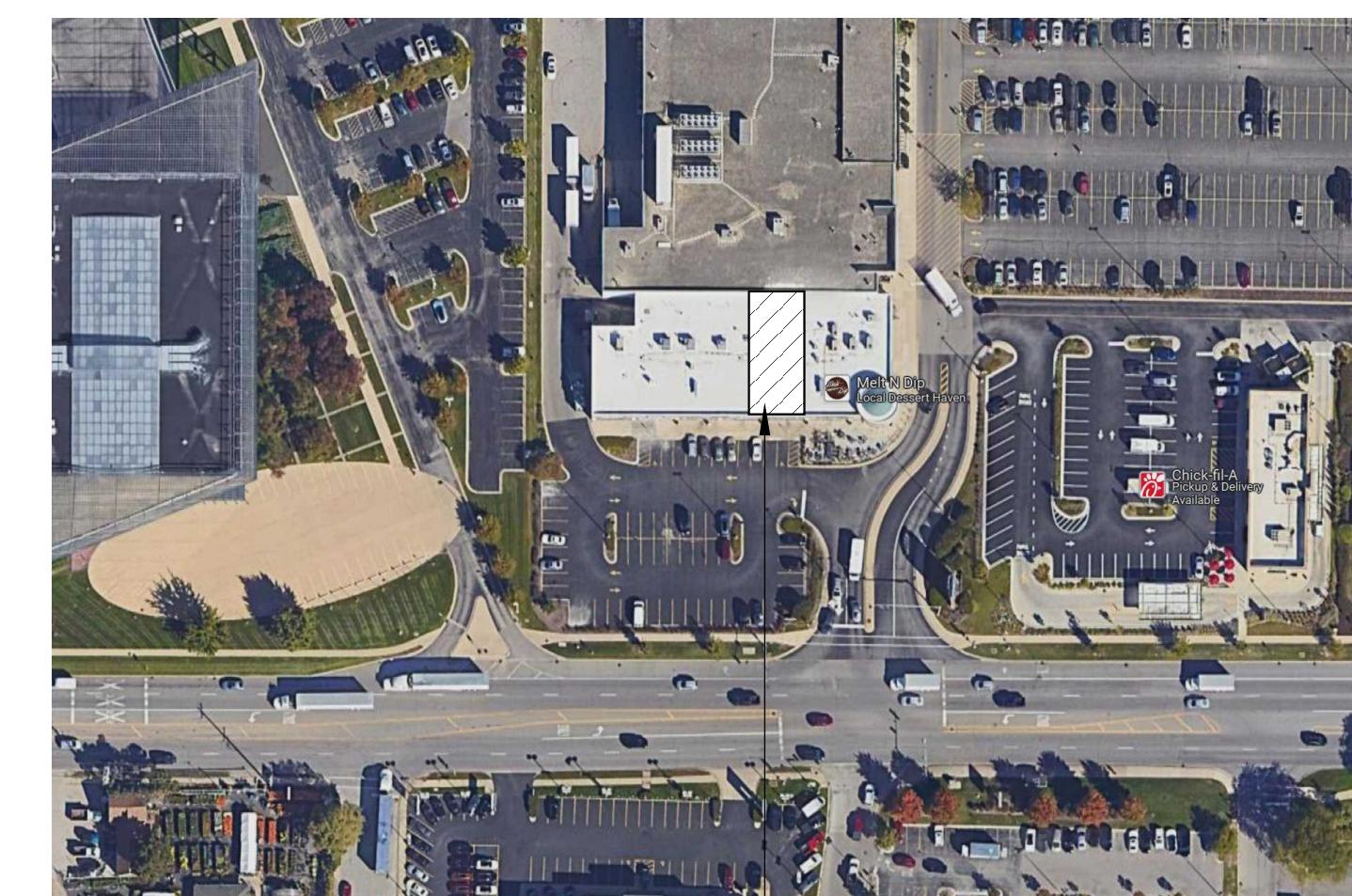
1/4" = 1'-0"



TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714



A4 VICINITY MAP
NILES, IL



T Mobile

A3 KEY PLAN
LEVEL 1 OF 1

ACCESSIBLE ROUTE OF TRAVEL SUMMARY				
PATH START POINT	PATH END POINT	DESCRIPTION	TRAVEL DISTANCE (X < 75'-0")	TRAVEL DISTANCE (X < 200'-0")
A	EXIT 01	EXIT ACCESS TRAVEL DISTANCE	NA	62' - 6"
B	EXIT 02	EXIT ACCESS TRAVEL DISTANCE	NA	36' - 3"
ACCESSIBLE ROUTE OF TRAVEL MAXIMUM TRAVEL DISTANCE				62' - 6"

#	DESCRIPTION	DATE

DATE: April 17, 2024
SCALE: AS NOTED
DRAWN BY: AZ
SAP NUMBER:

193

CORPORATE NEW CD

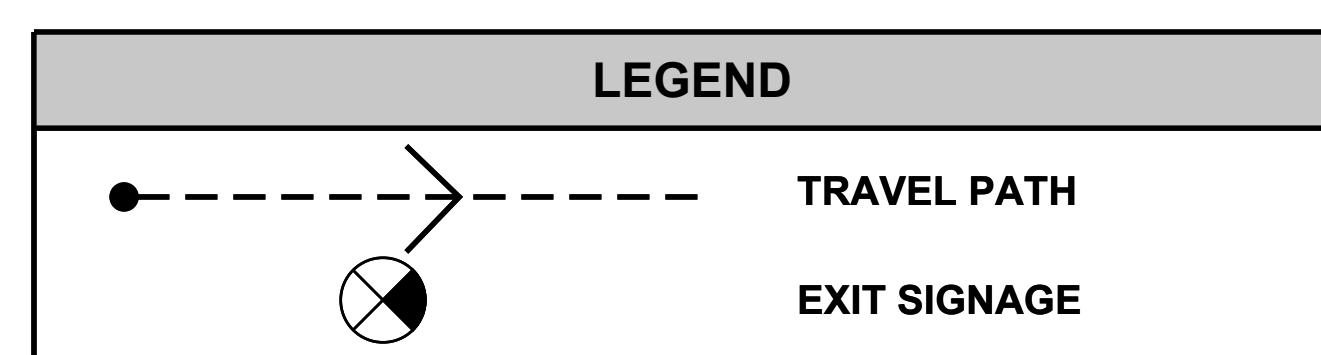
RMC

SHEET TITLE:

KEY PLAN, VICINITY MAP AND
EGRESS PLAN

SHEET NUMBER:

G101



GENERAL NOTES

- SEE SHEET G001 FOR CODE ANALYSIS.
- SEE SHEET G002 FOR ACCESSIBILITY SIGNAGE.
- ACCESSIBILITY ROUTE OF TRAVEL SLOPES NOT TO EXCEED RUNNING SLOPE OF 1:20 (5%) MAXIMUM AND CROSS SLOPE OF 1:50 (2%).
- SITE ACCESSIBILITY PROVIDED BY LANDLORD.
- PROVIDE WALL MOUNTED FIRE EXTINGUISHER(S) PER FIRE MARSHAL'S INSTRUCTION.

COPYRIGHT NOTICE:
THESE DRAWINGS AND SPECIFICATIONS ARE COPYRIGHTED AND SUBJECT TO
COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SECTION 102 OF
THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED JANUARY 2003. THE PROTECTION
INCLUDES THE DESIGN, LAYOUT, ARRANGEMENT, AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNAUTHORIZED COPIES,
PHOTOCOPIES, OR OTHER FORMS OF DUPLICATES OF THESE DRAWINGS AND SPECIFICATIONS
MAY RESULT IN CESSATION OF CONSTRUCTION, BUILDING SEIZURE, AND/OR
MONETARY LIABILITY.

ARCHITECT:

FUZION

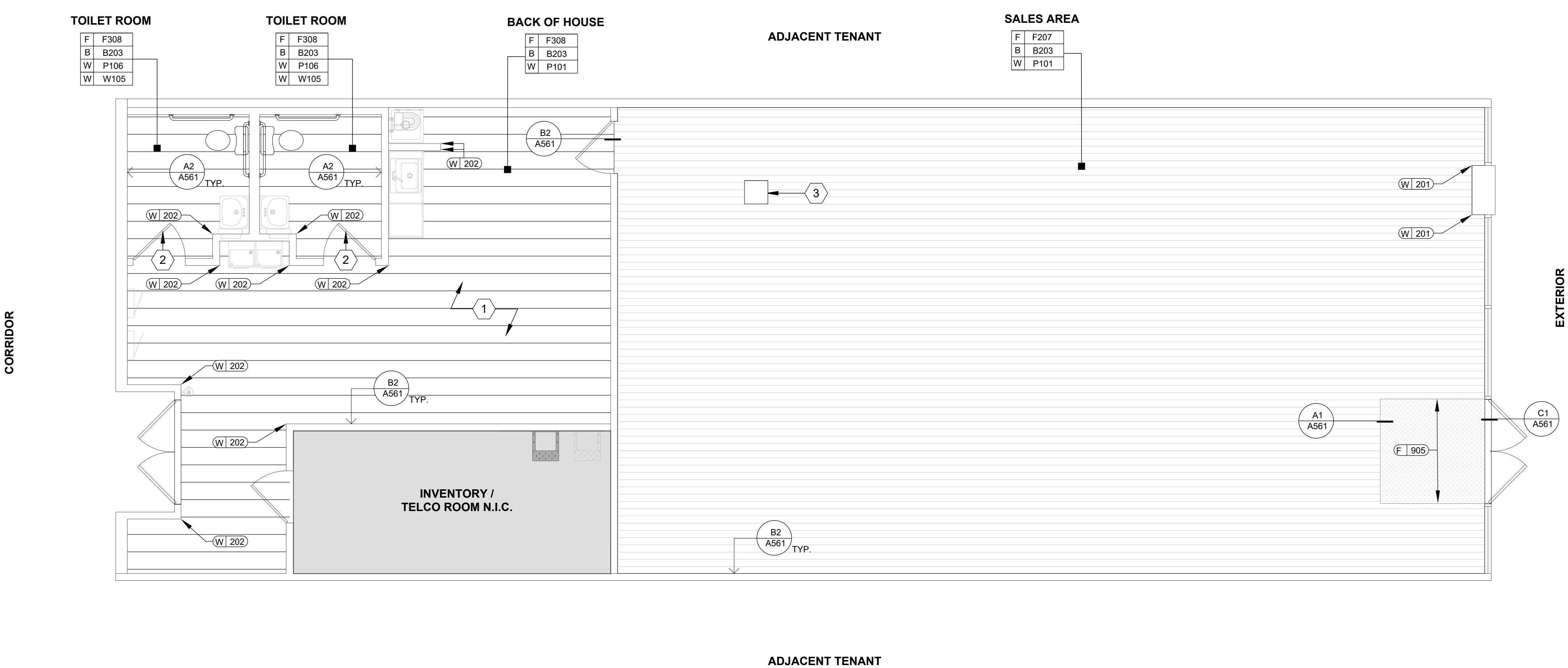
9096 EAST BAHIA DRIVE
SUITE 103
SCOTTSDALE, AZ 85260
DESIGN@FUZIONVE.COM
WWW.FUZIONVE.COM

VENDOR PROJECT NO.: 24.03.213351

**DESIGN
DEVELOPMENT**

CONSULTING ENGINEER:

TOUYA AVE AND CENTRAL AVE
5710 W TOUYA AVE
SPACE A-4B
NILES, IL 60714



B4 FINISH FLOOR PLAN
1/4" = 1'-0"

ADJACENT TENANT

FINISH SUMMARY	
SYMBOL	DESCRIPTION
B1##	BASE - RUBBER
B2##	BASE - WOOD
F0##	FLOORING - WOOD
F2##	FLOORING - VINYL TILE - SALES AREA
F3##	FLOORING - CERAMIC / PORCELAIN TILE
F4##	FLOORING - VINYL - BOH, HALLWAY, TELECOM, OTHER ENTRANCES
F5##	FLOORING - CARPET
F9##	FLOORING - WALK-OFF MATS - VESTIBULE, SALES AREA
P1##	PAINT
W1##	WALLCOVERING - WET AREA SURROUND
W2##	CORNER GUARD
W3##	WINDOW FILM

ALL EQUIPMENT, FINISHES, FIXTURES, FURNITURE, AND GRAPHICS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SEE A600 SERIES SHEETS FOR ALL SCHEDULES.

GENERAL NOTES		
1.	PREPARE EXISTING FLOOR SURFACE PER MANUFACTURER SPECIFICATIONS FOR INSTALLATION OF NEW FLOORING MATERIALS AS INDICATED IN THESE PLANS. SEE SPECIFICATIONS AND MANUFACTURER INSTRUCTIONS FOR ADDITIONAL FLOOR INSTALLATION NOTES. CLEAN AND FINISH FLOOR PER MANUFACTURER INSTRUCTIONS.	
2.	FLOOR FINISHES: COMPLY WITH THESE RECOMMENDATIONS AT MINIMUM OR NOT LESS THAN MANUFACTURER'S INSTRUCTIONS. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR ALL FINISHES INCLUDING FLOOR LEVELING REQUIREMENTS, EXPANSION SPACES, VAPOR BARRIERS, UNDERLAYMENT, SITE CONDITIONS, ETC.	
2.1	SUBFLOOR PREPARATION: GRIND HIGH SPOTS AND FILL LOW SPOTS TO PRODUCE A MAXIMUM 1/8" (3MM) DEVIATION IN ANY DIRECTION WHEN CHECKED WITH A 10' (3M) STRAIGHT EDGE.	
2.2	EXPANSION: PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING OF NOT LESS THAN DIRECTED BY MANUFACTURER.	
2.3	PROTECTION: PROVIDE FLOOR PROTECTION UP UNTIL FINAL CLEANING.	
3.	CENTER FLOORING WITHIN EACH ROOM. FIRST PLANK SHOULD BE CENTERED BETWEEN THE DEMISING WALLS AND PLACED SO THAT THE PARTIAL PLANKS ARE NEAR THE DEMISING WALLS AND UNDERNEATH WALL MOUNTED FIXTURES UNLESS OTHERWISE NOTED.	
4.	G.C. TO INSTALL SALES AREA FLOOR FINISHES WALL TO WALL U.O.N.	

SHEET SYMBOLS		
EXISTING AREA N.I.C.	(X 000)	FINISH TAG
ROOM FINISH TAG		
F X###		FLOOR FINISH
B X###		BASE FINISH
W X###		WALL FINISH

KEY NOTES	
##	NOTES
1	G.C. TO PAINT ACCENT WALL(S) P103 "PEONY". ALL OTHER WALLS TO BE PAINTED P101 "SIMPLY WHITE".
2	G.C. TO PAINT TOILET ROOM SIDE OF DOOR AND FRAME P106. PAINT VESTIBULE/HALLWAY SIDE OF DOOR AND FRAME P101.
3	G.C. TO PAINT ALL SIDES OF FURRED OUT COLUMN P101 "WHITE DIAMOND". INSTALL ALL (4) CORNER GUARD W201 AT ALL FOUR CORNERS.

QUANTITY		
SYMBOL	DESCRIPTION	QUANTITY
W201	CORNER GUARD -FRONT OF HOUSE	2
W202	CORNER GUARD -BACK OF HOUSE	10

CORNER GUARDS TO BE INSTALLED BY FIXTURE VENDOR

193

CORPORATE NEW CD

RMC

SHEET TITLE:

FINISH FLOOR PLAN

SHEET NUMBER:

A121

COPYRIGHT NOTICE:
 THESE DRAWINGS AND SPECIFICATIONS ARE COPYRIGHTED AND SUBJECT TO
 COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SECTION 102 OF
 THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED JANUARY 2003. THE PROTECTION
 INCLUDES THE DESIGN, ARRANGEMENT, AND PRACTICAL APPLICABILITY OF
 COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNAUTHORIZED COPIES
 OR ALTERATIONS OF THIS DRAWING OR SPECIFICATION, OR USE IN OTHER LOCATIONS
 MAY RESULT IN CESSATION OF CONSTRUCTION, BUILDING SEIZURE, AND/OR
 MONETARY LIABILITY.

ARCHITECT:

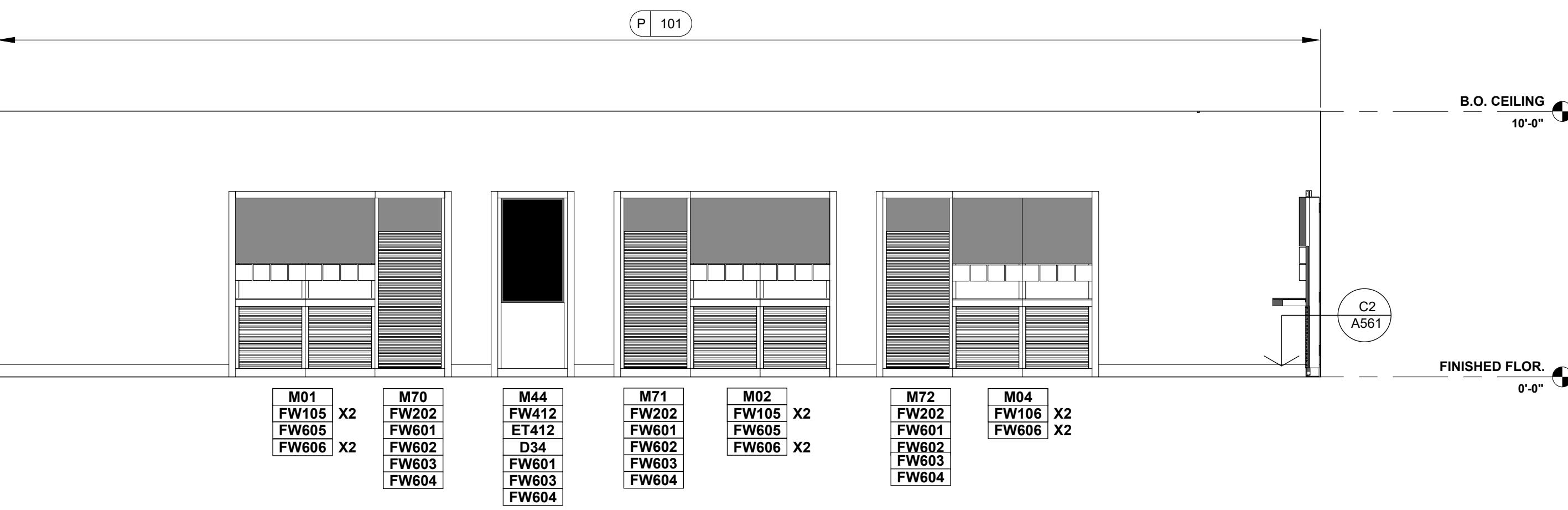
FUZION

 9096 EAST BAHIA DRIVE
 SUITE 103
 SCOTTSDALE, AZ 85260
DESIGN@FUZIONVE.COM
WWW.FUZIONVE.COM

VENDOR PROJECT NO.: 24.03.213351

**DESIGN
DEVELOPMENT**

CONSULTING ENGINEER:

 TOUHY AVE AND CENTRAL AVE
 5710 W TOUHY AVE
 SPACE A-4B
 NILES, IL 60714


T Mobile®

12920 SE 38th STREET
BELLEVUE, WA 98006
www.T-Mobile.com

COPYRIGHT NOTICE:
THESE DRAWINGS AND SPECIFICATIONS ARE COPYRIGHTED AND SUBJECT TO
COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SECTION 102 OF
THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED JANUARY 2003. THE PROTECTION
INCLUDES THE DESIGN, ARRANGEMENT, AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNLESS SUCH
PROTECTION IS MAINTAINED, THE USE OF THIS DESIGN IN OTHER LOCATIONS
MAY RESULT IN VIOLATION OF THE COPYRIGHT LAW AND MONETARY LIABILITY.

ARCHITECT:

FUZION

9096 EAST BAHIA DRIVE
SUITE 103
SCOTTSDALE, AZ 85260
DESIGN@FUZIONVE.COM
WWW.FUZIONVE.COM

VENDOR PROJECT NO: 24.03.213351

**DESIGN
DEVELOPMENT**

CONSULTING ENGINEER:

TOUCHY AVE AND CENTRAL AVE
5710 W TOUCHY AVE
SPACE A-4B
NILES, IL 60714

FLOORING FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	STYLE	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
F207	WOOD LOOK LVT PLANKS	MOHAWK GROUP	HOT AND HEAVY	SECOYA (C0009)	148 ATWELL MILL	9" W X 59" L PLANK, 5mm THICK	CLASS A	T-MOBILE	G.C.	MAIN SALES FLOORING
F308	TERRAZZO LOOK LVT	MOHAWK GROUP	LIVING LOCAL COLLECTION	TERRAZZO	VALLE DE BOVE #989	12" X 24", 2.5mm THICK	CLASS A	T-MOBILE	G.C.	INSTALLATION: GLUE DOWN WITH MOHAWK M95.0, M99, OR M700 PLUS ADHESIVE
F905	WALK-OFF MAT - SALES AREA	MOHAWK GROUP	STEP UP II GT311	MODULAR	OBSIDIAN 989	24"X24"	CLASS 1	T-MOBILE	G.C.	INSTALLATION: GLUE DOWN WITH MOHAWK ENPRESS ADHESIVE. MONOLITHIC.

PAINT, WALLCOVERING, AND WINDOW FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	COLOR	FINISH	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
P101	PAINT - INTERIOR FIELD COLOR	BENJAMIN MOORE & COMPANY	WHITE DIAMOND OC-61'S	WALLS: EGGSHELL CEILING: FLAT DOOR AND FRAMES: SEMI-GLOSS	CLASS A	G.C.	G.C.	
P103	PAINT - ACCENT WALL	BENJAMIN MOORE & COMPANY	PEONY 2079-30	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	
P106	MEDIUM GRAY PAINT	BENJAMIN MOORE & COMPANY	RAIN STORM CSP-50	RESTROOM: SATIN WALLS: EGGSHELL CEILING: FLAT DOOR AND FRAMES: SEMI-GLOSS	CLASS A	G.C.	G.C.	
W101	PANELS - WET AREA SURROUND	MARLITE	S 100G WHITE	STANDARD FRP - SMOOTH SURFACE	CLASS C	G.C.	G.C.	TO 4'-0" A.F.F. UNLESS OTHERWISE NOTED.
W105	FIBRE -REINFORCED PLASTIC - RESTROOM WALL TILE PANEL	MARLITE FRP	SMARTSEAM SYMMETRIX, SYM SS916 G63-R1	WHITE/BLACK SUBWAY, FINISH: SS916	-	G.C.	G.C.	INTERLOCKING PANELS WITH STAINLESS TRIM CAP
W201	CORNER GUARD - SALES AREA	WALLGUARD	WHITE	DEFENDER SERIES 2325.1	-	T-MOBILE	G.C.	INSTALLATION: MANUFACTURER RECOMMENDED ADHESIVE. MOUNTED ABOVE WALL BASE. 90° 1-1/2" CORNER GUARD, 4' LENGTH
W202	CORNER GUARD - HALLWAY, RESTROOM, BACK OF HOUSE, TRAINING ROOM	WALLGUARD	ALUMINUM	DEFENDER SERIES 2340	-	T-MOBILE	G.C.	INSTALLATION: MANUFACTURER RECOMMENDED ADHESIVE. MOUNTED ABOVE WALL BASE. 90° 2" CORNER GUARD, 4' LENGTH
W301	SECURITY FILM - CLEAR	LLUMAR	SCL SR PS7	.77" FILM THICKNESS		T-MOBILE	G.C.	TENSILE STRENGTH = 31050 PSI

TRIM FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
B203	RUBBER WALL BASE	MOHAWK	ELEMENTAL EDGES	NIGHT SKIES 002	4" H X 120' CONTINUOUS ROLL X 1/8"	CLASS A	T-MOBILE	G.C.	WALL BASE

CEILING FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	STYLE	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
C101	LAY-IN ACOUSTICAL CEILING SYSTEM - BACK OF HOUSE	ARMSTRONG	FINE FISSURED SECOND LOOK 1761C	FINE FISSURED SECOND LOOK, ANGLED TEGULAR 15/16"	WHITE	24" X 48"	CLASS A	G.C.	G.C.	ARMSTRONG PRELUDE XL 15/16" TEE GRID.

##	DESCRIPTION	DATE

DATE: April 17, 2024
SCALE: AS NOTED
DRAWN BY: AZ
SAP NUMBER:

193

CORPORATE NEW CD

RMC

SHEET TITLE:

FINISH SCHEDULE

SHEET NUMBER:

A601

DIVISION 0 - CONTRACT REQUIREMENTS

007200 GENERAL CONDITIONS
 A. UNLESS OTHERWISE AGREED UPON BY CONTRACTOR AND T-MOBILE, IN PART OR IN WHOLE, THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, 1997 EDITION, SHALL GOVERN THE WORK.

DIVISION 1 - GENERAL REQUIREMENTS

011000 SUMMARY
 A. THIS SPECIFICATION IDENTIFIES REQUIREMENTS FOR SEVERAL PROJECTS, AND MAY CONTAIN ELEMENTS WHICH DO NOT APPLY TO THIS PARTICULAR PROJECT. REFER TO THE DRAWINGS TO DETERMINE WHETHER THE SPECIFIED ELEMENT APPLIES TO THIS PROJECT.
 B. COMPLY WITH CODES, ORDINANCES, RULES, REGULATION, ORDERS AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITIES WHICH GOVERN THE PERFORMANCE OF THE WORK.
 C. DEFINITIONS
 1. LANDLORD: MALL DEVELOPER OR BUILDING OWNER.
 2. T-MOBILE: T-MOBILE OR T-MOBILE'S REPRESENTATIVE (JLL), TENANT.
 3. USE OF PREMISES: COORDINATE WITH T-MOBILE.
 4. SPECIAL WORK REQUIREMENTS (INCLUDING ALLOWABLE TIMES FOR WORK):
 5. WORK PERFORMED BY T-MOBILE UNDER SEPARATE CONTRACTS (FOIO): COORDINATE WITH T-MOBILE.
 6. T-MOBILE FURNISHED CONTRACTOR INSTALLED (FOIC) ITEMS: COORDINATE WITH T-MOBILE.
 7. APPLICATIONS FOR PAYMENT: COORDINATE WITH T-MOBILE.
 8. REQUESTS FOR INTERPRETATION (RFIS): RFIS SHALL BE SUBMITTED TO T-MOBILE'S REPRESENTATIVE WHO WILL CONTACT THE ARCHITECT ON AN AS-NEEDED BASIS.
 9. "PROVIDE" MEAN TO FURNISH, FABRICATE, DELIVER, INSTALL AND ERECT, AND CONNECT, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, APPURTENANCES AND EXPENSES NECESSARY TO COMPLETE IN PLACE, READY FOR OPERATION AND USE, IN ACCORDANCE WITH THE TERMS OF THE CONTRACT DOCUMENTS.
 10. "AS SHOWN," "AS-BUILT," "AS-INDICATED" OR WORDS OF SIMILAR IMPORT MEAN AS INDICATED ON THE DRAWINGS.
 11. "APPROVED EQUAL," "EQUAL," "OR APPROVED EQUAL" MEANS AS APPROVED AND ACCEPTED BY THE ARCHITECT AS DEFINED IN SECTION 01600 OF THE SPECIFICATIONS.
 12. "SHALL" IS MANDATORY.

011100 PROJECT MEETINGS
 A. PROJECT MEETINGS BETWEEN T-MOBILE AND CONTRACTOR WILL BE SCHEDULED BY T-MOBILE.
 B. ARCHITECT'S ATTENDANCE WILL BE UPON WRITTEN REQUEST OF T-MOBILE'S REPRESENTATIVE.

014000 - PROJECT COORDINATION
 A. THE G.C. SHALL BE RESPONSIBLE FOR ALL PROJECT COORDINATION. COORDINATE THE WORK OF ALL SUBCONTRACTORS IN CONJUNCTION WITH T-MOBILE'S CONTRACTORS AND VENDORS.
 B. PREPARE DETAILED SCHEDULE OF OPERATIONS OF ALL SUBCONTRACTORS ON THE PROJECT AND MONITOR SCHEDULES AS WORK PROGRESSES.
 C. REPORT NON-COMPLIANCE TO ARCHITECT, WITH RECOMMENDATION TO REMEDY.
 D. MAINTAIN COST ACCOUNTING RECORDS FOR AUTHORIZED WORK PERFORMED, ACTUAL COSTS FOR LABOR AND MATERIALS, AND OTHER WORK REQUIRING ACCOUNTING RECORDS.
 E. REVIEW SUBCONTRACTOR'S REQUESTS FOR CHANGES AND FOR SUBSTITUTIONS; SUBMIT RECOMMENDATIONS TO T-MOBILE CONSTRUCTION PROJECT MANAGER AND PROCESS CHANGE ORDERS.
 F. PERMITS AND FEES: VERIFY THAT SUBCONTRACTORS HAVE OBTAINED ALL PERMITS REQUIRED FOR INSPECTIONS AND TEMPORARY FACILITIES.
 G. INTERPRETATIONS OF CONTRACT DOCUMENTS: CONSULT WITH ARCHITECT TO OBTAIN INTERPRETATIONS, ASSIST IN RESOLUTION OF QUESTIONS WHICH ARISE. TRANSMIT WRITTEN INTERPRETATIONS TO CONCERNED PARTIES.

SECTION 014500 - QUALITY CONTROL
 A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE STANDARDS, OR AS-SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
 B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.
 C. PERFORM WORK WITH PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
 D. INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER / RECOMMENDATIONS. WHERE CONFLICT BETWEEN MANUFACTURER / RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS IS DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY.

015000 TEMPORARY FACILITIES AND CONTROL
 A. ALL TEMPORARY FACILITIES AND CONTROLS, INCLUDING THE FOLLOWING, ARE TO BE COORDINATED ENTIRELY WITH T-MOBILE.
 1. TEMPORARY UTILITIES, INCLUDING ELECTRICITY, LIGHTING, HEATING AND VENTILATION, WATER AND TELEPHONE.
 2. DUST CONTROL.
 3. BARRIERS AND ENCLOSURES.
 4. SECURITY.
 5. CONTRACTOR DESIGNATED AREAS, INCLUDING PARKING AND STORAGE.

016000 PRODUCT REQUIREMENTS
 A. SUBSTITUTIONS
 1. SUBSTITUTIONS WILL NOT BE ALLOWED UNLESS APPROVED BY T-MOBILE.
 2. ARCHITECT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME IN WRITING.
 3. SUBSTITUTIONS WILL NOT BE CONSIDERED IF THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PROJECT DATA SUBMITTALS WITHOUT FORMAL WRITTEN REQUEST, OR IF ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS.
 B. KEEP FINISHED SURFACES CLEAN AND UNMARRED UNTIL THE DATE OF ACCEPTANCE.
 C. PRODUCTS SHALL BE NEW OF THE TYPE SPECIFIED, AND FURNISHED IN AMPLE QUANTITIES TO FACILITATE PROPER AND TIMELY EXECUTION OF THE WORK.

017020 CUTTING AND PATCHING
 A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
 B. PROVIDE A SMOOTH, EVEN, AND INVISIBLE TRANSITION TO NEW CONSTRUCTION.
 C. SEAL ALL PENETRATIONS IN WALLS, FLOORS AND CEILINGS AS REQUIRED TO MAINTAIN FIRE RATING AND BY JURISDICTION HAVING AUTHORITY. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO PROCEEDING.

E. EXISTING SPRAYED FIREPROOFING WHERE OCCURS: PATCH AND REPAIR EXISTING SPRAYED FIREPROOFING TO MATCH THE FIRE-RATING OF THE EXISTING CONSTRUCTION. HAND PATCH USING UL-APPROVED MATERIALS AND PROCEDURES.

F. PLACEMENT OF EXISTING CONCRETE SLABS ON GRADE: IN ACCORDANCE WITH SECTION 030103.

G. X-RAY CONCRETE SLABS PRIOR TO ANY SAW-CUTTING FOR AREAS WITH POSSIBLE POST TENSIONED SLABS.

017700 CLOSEOUT PROCEDURES
 A. AS-BUILT DOCUMENTS: RECORD DOCUMENTS, PROVIDED BY THE CONTRACTOR, WHICH EXACTLY INDICATE AS-BUILT CONDITIONS, WILL BE AS REQUIRED BY T-MOBILE AND LOCATED PER NOTES ON THE FLOOR PLAN SHEETS.

B. OPERATION AND MAINTENANCE MANUALS WILL BE AS REQUIRED BY T-MOBILE.

C. PROJECT CLOSEOUT DOCUMENTS, INCLUDING WARRANTY, GUARANTEES AND REQUEST FOR FINAL PAYMENT, WILL BE AS REQUIRED BY T-MOBILE.

DIVISION 2 - EXISTING CONDITIONS

024119 SELECTIVE DEMOLITION
 A. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE THE WORK WHERE DEMOLITION EXCEEDS THAT INDICATED, VERIFY SUCH DEMOLITION WITH THE ARCHITECT PRIOR TO PROCEEDING.
 B. PROTECT EXISTING STRUCTURAL MEMBERS. CONTACT THE ARCHITECT PRIOR TO MODIFYING STRUCTURAL MEMBERS BEYOND THE EXTENT INDICATED, CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF CONTINUED DEMOLITION OPERATIONS MIGHT ENDANGER THE EXISTING STRUCTURE.
 C. DURING DEMOLITION OPERATIONS, NOTIFY THE ARCHITECT OF ALL CONDITIONS WHICH DIFFER SUBSTANTIALLY FROM THOSE INDICATED, SPECIFIED, OR EXPECTED. NOTIFY THE ARCHITECT IF PREVIOUSLY UNKNOWN OPERATIONAL, OR POTENTIALLY OPERATIONAL ELEMENTS, ARE UNCOVERED DURING DEMOLITION OPERATIONS. PERFORM NO DEMOLITION IN SUCH AREAS, UNLESS APPROVED BY THE ARCHITECT.
 D. PROVIDE TEMPORARY SHORING AS REQUIRED TO SUPPORT EXISTING CONSTRUCTION AGAINST MOVEMENT OR OVERLOAD DURING DEMOLITION OPERATIONS, UNTIL PERMANENT SUPPORTS ARE IN PLACE.
 E. EXCEPT WHERE NOTED OR SPECIFIED OTHERWISE, TAKE POSSESSION OF MATERIALS BEING DEMOLISHED, AND IMMEDIATELY REMOVE FROM SITE. DO NOT OVERLOAD EXISTING CONSTRUCTION TO REMAIN WITH DEMOLISHED MATERIALS.

F. CAREFULLY REMOVE, STORE, AND PROTECT ALL MATERIALS AND COMPONENTS TO BE REUSED.

G. WHERE POSSIBLE WITHOUT DAMAGE, REMOVE, STORE, AND PROTECT EXISTING MATERIALS AND COMPONENTS NOT NOTED FOR REMOVAL, WHICH IF REMOVED, WOULD FACILITATE THE NEW CONSTRUCTION AND RECONDITIONING.

H. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY T-MOBILE FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE T-MOBILE TO DETERMINE WHICH ITEMS WILL BE CLAIMED.

I. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.

J. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO ADDITIONAL COST TO OWNER.

K. UTILITY LINE DEMOLITION:
 1. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO DEMOLITION.

2. ABANDONED UNDER-SLAB CONDUIT SHALL BE CUT OFF BELOW THE FINISHED SURFACE LINE; AND ALL CONDUCTORS SHALL BE REMOVED, PATCH AND FILL THE OPENING FLUSH WITH THE FINISH.

3. ABANDONED ELECTRICAL CONDUCTORS SHALL BE REMOVED BACK TO THE BRANCH CIRCUIT PANEL, UNLESS INDICATED OTHERWISE. ABANDONED CONDUIT WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED LEAVE ABANDONED CONDUIT WHICH IS EXPOSED IN EXISTING CONSTRUCTION TO REMAIN.

4. ABANDONED UNDER-SLAB PIPING SHALL BE REMOVED AND CUT OFF FLUSH WITH THE FLOOR.

5. ABANDONED PIPING WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED, LEAVE ABANDONED PIPING WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN. CAP ALL EXPOSED ENDS.

6. INDICATE LOCATION OF DISCONNECTED UTILITIES ON THE PROJECT RECORD DRAWINGS AS SPECIFIED IN DIVISION 01.

L. LEAVE SITE IN A CONDITION ACCEPTABLE TO T-MOBILE AT ALL TIMES. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY AS WORK PROGRESSES. DO NOT OVERLOAD EXISTING STRUCTURE WITH DEMOLISHED MATERIALS.

M. REMOVAL OF BONDED FLOOR FINISHES:
 1. SCRAPER, GRIND AND OTHERWISE REMOVE EXISTING FLOOR FINISH AND BONDING MATERIALS AS NECESSARY TO RECEIVE NEW FLOOR FINISHES.

2. PREPARED SURFACE SHALL PRESENT A UNIFORM FLAT SURFACE READY TO RECEIVE THE NEW FLOOR FINISHES FREE OF TELEGRAPHING AND OTHER SURFACE IRRREGULARITIES.

3. SLOPE SHALL NOT EXCEED 1/8" IN 10 FEET. THE FLOOR STRUCTURE MUST HAVE LESS THAN 1/8" PER FOOT DEFLECTION IN ORDER TO ACCEPT TENANT'S FLOOR FINISHES.

4. FILL EXCESSIVE VOIDS OR VARIATIONS GREATER THAN IN THE SUBFLOOR 1/8" IN 10" AS SPECIFIED IN DIVISION 03.

5. NEW FLOOR FINISHES SHALL NOT BE INSTALLED OVER EXISTING FLOOR FINISH MATERIALS UNLESS APPROVED OTHERWISE.

DIVISION 3 - CONCRETE, CONT.

3. WATER: CLEAN, POTABLE
 4. PREPARATION
 A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
 B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
 5. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 C. PREVENT DAMAGE TO AND SOILING OF ADJACENT WORK.
 D. NEW CONCRETE: APPLY CURE-SEAL-HARDENER TO NEW CONCRETE AS SOON AS THE CONCRETE IS FIRM ENOUGH TO WORK ON AFTER TOWELING, EXCEPT ON COLORED CONCRETE, WAIT MINIMUM OF 24 HOURS.
 E. SOAK-IN RATE IS 20 GALLONS/GAL PER GALLON.
 F. KEEP SURFACES WET WITH CURE-SEAL HARDENER FOR MINIMUM SOAK-IN PERIOD OF 30 MINUTES WITHOUT ALLOWING DRYING OUT OR BECOMING SLIPPERY. IN HOT WEATHER, SLIPPERINESS MAY APPEAR BEFORE THE 30 MINUTE TIME PERIOD HAS ELAPSED. IF THAT OCCURS, APPLY MORE CURE-SEAL-HARDENER AS REQUIRED TO KEEP ENTIRE SURFACE IN A NON-SLIPPERY STATE FOR THE FIRST 15 MINUTES. FOR THE REMAINING 15 MINUTES, MIST THE SURFACE AS NEEDED WITH WATER TO KEEP THE MATERIAL IN A NON-SLIPPERY STATE.
 G. AFTER THIS PERIOD, WHEN TREATED SURFACE BECOMES SLIPPERY, LIGHTLY MIST WITH WATER UNTIL SLIPPERINESS DISAPPEARS.
 H. WAIT FOR THE SURFACE TO BECOME SLIPPERY AGAIN AND THEN FLUSH ENTIRE SURFACE WITH WATER REMOVING ALL RESIDUE OF CURE-SEAL-HARDENER.
 I. SCRAPING: SCRAPE ENTIRE AREA COMPLETELY DRY, FLUSHING ANY REMAINING SLIPPERY AREAS UNTIL NO RESIDUE REMAINS.
 J. WET VACUUM OR SCRUBBING MACHINES MAY BE USED TO REMOVE RESIDUE, PROVIDED MANUFACTURER'S INSTRUCTIONS ARE FOLLOWED.

035416 HYDRAULIC CEMENT UNDERLAYMENT

A. SUMMARY:
 1. CEMENTIMENTOUS UNDERLAYMENTS AS NECESSARY FOR LEVELING OF NEW OR EXISTING CONCRETE FLOOR SUBSTRATES, AS NECESSARY TO MEET SPECIFIED TOLERANCES.

2. CEMENTIMENTOUS TOPPINGS AS NECESSARY FOR LEVELING NEW OR EXISTING SLABS AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER ONLY.

B. ENVIRONMENTAL REQUIREMENTS:
 1. RAMPS AND TAPERS AS NECESSARY TO ALIGN LEVELS BETWEEN DISSIMILAR FINISHES.

2. SELF-LEVELING UNDERLAYMENT SYSTEM: AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS OR APPROVED:

1. MAPEI CORPORATION "ULTRALAP 1 PLUS" OR "NOVOPLAN 2 PLUS."

2. ARDEX INC. "K-15" SELF-LEVELING UNDERLAYMENT CONCRETE.

3. LATCIRETE INTERNATIONAL, INC. "LATCIRETE 86 LATILEVEL THIN POOR UNDERLAYMENT."

D. TROWELABLE UNDERLAYMENT SYSTEM: AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS OR APPROVED:

1. MAPEI CORPORATION "MAPACEM 100" OR "PLANITOP 11".

2. ARDEX INC. "SD-P" FAST-SETTING UNDERLAYMENT.

3. LATCIRETE INTERNATIONAL, INC. "LATCIRETE 220 MEDIUM BED MORTAR MIXED WITH STRENGTHENING AGENT."

E. CEMENTIMENTOUS TOPPING: FOR CONCRETE SURFACES AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER OR NOT OTHERWISE COVERED BY FLOORING MATERIAL; ONE OF THE FOLLOWING OR APPROVED:

1. SELF-LEVELING TYPES:
 a. MAPEI CORPORATION "ULTRATOP" SELF-LEVELING ABRASION-RESISTANT TOPPING.

b. ARDEX INC. "K-500" SELF-LEVELING CONCRETE TOPPING.

2. TROWELABLE UNDERLAYMENT:
 a. MAPEI CORPORATION "MARECIM 100" FAST-SETTING TOPPING MORTAR

b. ARDEX INC. "CD" SELF-DRYING CONCRETE DRESSING.

F. ACCESSORIES: FURNISH PRIMERS, PATCHING COMPOUNDS, AND SAND FILLERS AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE CONDITIONS OF THE PROJECT.

G. PREPARATION:
 1. THOROUGHLY MIX UNDERLAYMENT MATERIALS FOR EACH TYPE OF PRODUCT IN PROPER PROPORTIONS TO ACHIEVE SMOOTH HOMOGENEOUS MIX, FREE OF LUMPS.

2. WITH THE EXCEPTION OF AREAS WHERE LEVELING CAN BE ACCOMPLISHED BY USE OF LATEX UNDERLAYMENT, AS SPECIFIED IN OTHER SECTIONS, INSTALL CEMENTIMENTOUS UNDERLAYMENT TO CONCRETE SLABS AS INDICATED ON THE DRAWINGS, AND AS NECESSARY TO LEVEL SLABS OR BRING SUBSTRATES TO PROPER ELEVATION.

3. INSPECT FLOOR TO VERIFY THAT DEMOLITION IS COMPLETE TO THE POINT WHERE WORK MAY PROGRESS.

4. SURVEY FLOOR AS NECESSARY TO SET SCREEDS AND REFERENCE POINTS, IDENTIFY CONSTRUCTION JOINTS, PREPARE FOR UNDERLAYMENT AT ALL LOCATIONS WHERE FLOOR DOES NOT MEET SPECIFIED TOLERANCES.

5. ERADICATE ALL CRACKS, DENTS, Holes, Soundings, AND FREE OF OILS, OR OTHER SUBSTANCE THAT WOULD AFFECT ADHESION, BONDING, AND CURING.

6. VERIFY THAT ALL AREAS TO BE LEVELLED ARE AT OR BELOW FINAL DESIGN ELEVATION. GRIND DOWN HIGH SPOTS AS NECESSARY TO MEET SPECIFIED TOLERANCE REQUIREMENTS.

7. SET SCREEDS, MARKERS, AND REFERENCE BLOCKS. SET SCREEDS AT ALL CONSTRUCTION AND CONTROL JOINTS TO ESTABLISH WEAKENED PLANE JOINTS IN UNDERLAYMENT.

8. APPLY PRIMER TO ALL AREAS TO RECEIVE UNDERLAYMENT AND TOPPINGS; REPEAT APPLICATION IF NECESSARY TO ACHIEVE PROPER BUILD.

H. INSTALLATION:
 1. INSTALL TROWELABLE UNDERLAYMENT AT LOCATIONS WHERE SLOPES ARE INDICATED AND AT OTHER LOCATIONS WHERE TROWEL AND FILL IS NECESSARY TO ALIGN THE FLOOR SURFACES OF THE VARIOUS FLOOR FINISH MATERIALS.

2. INSTALL SELF-LEVELING UNDERLAYMENT AT EXISTING CONCRETE SLAB SURFACES TO CORRECT SLAB FLATNESS AND LEVELNESS.

3. PROVIDE CEMENTIMENTOUS TOPPINGS AT LOCATIONS TO REMAIN EXPOSED IN THE FINISHED WORK.

4. INSTALL UNDERLAYMENTS AND TOPPINGS: FINISH TO A SMOOTH UNIFORM SURFACE, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

5. TOLERANCES: VERY FLAT, LEVEL TO WITHIN 1/16" IN 40'.

6. CLEANING: AS WORK PROGRESSES, CLEAN UP EXCESS MATERIALS, RUBBISH, AND SPLASH.

DIVISION 4 - MASONRY (NOT USED)**DIVISION 5 - METALS**

054000 COLD-FORMED METAL FRAMING

A. SUMMARY:

DIVISION 7 - THERMAL AND MOISTURE, CONT.

4. TYPE A: ASTM C834; TREMCO "ACRYLIC LATEX CAULK", PECORA "AC-20", SONNEBORN "SONOLAC" OR APPROVED
5. TYPE SM: MILDEW RESISTANT SILICONE SEALANT: USDA APPROVED; DOW CORNING 786 BY DOW CHEMICAL, GE SANITARY SEALANT OR APPROVED; CLEAR.
- C. ACCESSORY MATERIALS:
 1. PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION
 2. JOINT CLEAVER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER, COMPATIBLE WITH JOINT FORMING MATERIALS.
 3. JOINT FILLER: CLOSED CELL POLYETHYLENE FOAM; ROUND PROFILE; THICKNESS: 130%-% OF JOINT WIDTH
 4. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION
 5. COMPRESSIBLE FOAM SEALANT: PRECOMPRESSED PREFACED SELF-ADHESIVE OPEN CELL POLYURETHANE FOAM TAPE; "BACKERSEAL" BY EMSEAL JOINT SYSTEMS, LTD., OR APPROVED
- D. PREPARATION:
 1. CLEAN AND PREPARE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE LOOSE MATERIALS AND OTHER FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION TO SEALANT.
 2. APPLY MASKING TIGHTLY AROUND JOINTS TO PROTECT ADJACENT SURFACES FROM EXCESS SEALANT.
 3. PRIME AS REQUIRED FOR PROPER BOND TO SUBSTRATE MATERIALS.
- E. INSTALLATION:
 1. PERFORM WORK IN ACCORDANCE WITH ASTM C1193, UNLESS SPECIFIED OTHERWISE; OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
 2. SEALANT BEADS SHALL HAVE A SECTIONAL WIDTH TO DEPTH RATIO OF 2 TO 1, EXCEPT THAT SEALANT TYPE PT SHALL BE INSTALLED FULL DEPTH WITHOUT BACKING.
 3. INSTALL TYPE PTNS SEALANT FULL DEPTH IN TILE EXPANSION JOINTS WITH NO BACKER ROD.
 4. TOP JOINTS CONCAVE, UNLESS INDICATED OTHERWISE. FINISH FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SADS.
 5. PROTECT SEALANT IN JOINTS SUBJECT TO DIRT, MOISTURE, AND TRAFFIC DURING THE SEALANT CURING PROCESS. PROTECTION SHALL BE ABLE TO RESIST TRAFFIC WHILE REMAINING SECURELY IN POSITION.
- F. SCHEDULE:
 1. TYPE S: PROVIDE AT ALL EXTERIOR JOINTS UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS SELECTED BY ARCHITECT.
 2. TYPE PT: PROVIDE AT ALL EXTERIOR HORIZONTAL JOINTS SUBJECT TO TRAFFIC AND ABRASION; STANDARD COLORS AS SELECTED BY ARCHITECT.
 3. TYPE PTNS: PROVIDE AT ALL EXPANSION JOINTS IN TILE; CUSTOM COLORS TO MATCH GROUT SAMPLES SUBMITTED BY TILE INSTALLER.
 4. TYPE PTNS: PROVIDE AT ALL INTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS TO MATCH ADJACENT CONSTRUCTION.
 5. TYPE SM: PROVIDE AT JOINTS AROUND COUNTERTOPS IN BACH OF HOUSE (BOH) AND RESTROOMS.

DIVISION 8 - OPENINGS

081113 HOLLOW METAL DOORS AND FRAMES

- A. SUMMARY:
1. INTERIOR DOOR FRAMES TO BE NOTED ON DOOR SCHEDULE PROVIDE "TIMELY" (OR EQUAL) PRE-FINISHED DOOR FRAME SYSTEMS (METAL) FOR EXTERIOR DOORS AND FRAMES, WHEN INDICATED ON THE DRAWINGS.

- B. REQUIREMENTS FOR DOORS:
 1. WHERE REQUIRED, INSTALLED FRAME AND DOOR ASSEMBLY SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
 2. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY (UL), OR ANOTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED. ASSEMBLIES SHALL MEET CODE REQUIREMENTS FOR POSITIVE PRESSURE WHEN REQUIRED.

3. INCLUDE "S" LABEL ON FIRE RATED DOOR ASSEMBLIES LOCATED AT 1 HOUR RATED EXIT CORRIDORS.

- C. QUALITY ASSURANCE:
 1. CONFORM TO REQUIREMENTS OF ANSI A250-8.

- D. ACCEPTABLE MANUFACTURERS: MEMBERS OF THE STEEL DOOR INSTITUTE AND OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS, SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS.

- E. MATERIALS: STEEL SHEET, COLD ROLLED ASTM A36, OR HOT ROLLED PICKLED AND OILED SHEET CONFORMING TO ASTM A593, MINIMUM 30% RECYCLED CONTENT.

- F. INTERIOR DOOR CONSTRUCTION:
 1. ANSI A250.8; SEAMLESS; MINIMUM 18 GA FACE SHEETS, 16 GA AT INVENTORY ROOM.
 2. CORE: VERTICAL STEEL STIFFENERS WITH SOUND DEADENING FILL BETWEEN STIFFENERS, OR RESIN IMPREGNATED KRAFT PAPER HONEY COMB CORE.
 3. PROVIDE CONTINUOUSLY WELDED SEAMLESS EDGES. NO PLASTIC FILLERS WILL BE ACCEPTED.

- G. EXTERIOR DOOR CONSTRUCTION:
 1. ANSI A250.8: SEAMLESS; MINIMUM 16 GA FACE SHEETS.
 2. CORE: POLYSTYRENE OR POLYURETHANE FOAM CORE.
 3. SPECIAL CONSTRUCTION REQUIREMENTS:
 - a. PROVIDE CONTINUOUSLY WELDED SEAMLESS EDGES. NO PLASTIC FILLERS WILL BE ACCEPTED.
 - b. CLOSE TOP EDGES OF EXTERIOR DOORS FLUSH WITH STEEL FILLER CAP; SEAL JOINTS WATERTIGHT.
 - c. CUT MITRES FOR BUTTS USING APPROPRIATE TEMPLATES; UNIVERSAL NON-HANDED PREPARATION OF DOORS IS NOT ACCEPTABLE.

- H. FRAMES:
 1. EXTERIOR DOOR: DOUBLE RABBIT, EXCEPT FLAT, CASED OPENING FRAME WHERE INDICATED ON PLANS, UNLESS SPECIFIED OR INDICATED OTHERWISE; FULLY WELDED.
 2. EXTERIOR FRAMES: HOT DIP GALVANIZED ZINC COATING CONFORMING TO ASTM A653 A60 (.60 OZ/SQ FT. COATING WEIGHT), WITH MANUFACTURER'S STANDARD PRIMER TO RECEIVE COATING SYSTEM SPECIFIED IN SECTION 09000.

- J. INSTALLATION OF FRAMES:
 1. INSIDE FRAMES IN ACCORDANCE WITH SDI-105 AND IN ACCORDANCE WITH LABELING REQUIREMENTS.
 2. COORDINATE WITH WALL CONSTRUCTION FOR ANCHOR PLACEMENT.
 3. INSTALLATION TOLERANCES: MAXIMUM DIAGONAL DISTORTION: 1/16 INCH MEASURED WITH STRAIGHT EDGE, CORNER TO CORNER.
 4. DOOR AND HARDWARE INSTALLATION IS SPECIFIED IN SECTION 087300.

081400 WOOD DOORS

- A. SOLID CORE FLUSH DOORS:
 1. APPROVED MANUFACTURERS: ONE OF THE FOLLOWING:
 - a. ALGOMA HARDWOODS (VULGO, MI); 920-487-5221; 800-678-8910,
 - b. EVERLASTING DOORS (TIGUE RIVER, AR); 920-793-1351,
 - c. VANCOUVER DOOR (PUYALLUP, WA); 800-399-3667)
 - d. OREGON DOOR (WINSTON, OR); 800-722-269)
 2. AWI SECTION 1300, PREMIUM GRADE.
 3. CORE: UREA-FORMALDEHYDE FREE, SOLID PARTICLE BOARD CORE, UNLESS REQUIRED OTHERWISE FOR FIRE LABELING REQUIREMENTS.
 4. AWI PC-5 (OR 7 PLY CONSTRUCTION).
 5. PROVIDE LABELED DOORS AS REQUIRED TO MEET THE HOURLY FIRE RATING INDICATED.
 6. WHERE INTUMESCENT SEALS ARE REQUIRED TO MEET POSITIVE PRESSURE LABELING REQUIREMENTS, PROVIDE CONCEALED EDGE SEALING SYSTEM BUILT INTO THE DOOR EDGE.
 7. 1/4 INCH THICK, UNLESS SCHEDULED OTHERWISE.
 8. FRAMES PROVIDED UNDER SECTION 081113.

- B. FABRICATION:
 1. FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI STANDARDS SPECIFIED, AND TO FIRE RATED LABELING REQUIREMENTS. ATTACH FIRE RATING LABELS.
 2. BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS.

DIVISION 8 - OPENINGS, CONT.

3. BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.
4. PRE-FIT AND PRE-MACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6, PRE-MACHINE FOR HARDWARE SPECIFIED IN SECTION 087000, AND LOCATE AS SPECIFIED IN SECTION 087300.
5. DOORS SHALL BE FACTORY PREFINISHED AS SCHEDULED TO MATCH ARCHITECT'S SAMPLE; AWI PREMIUM GRADE, LOW VOC, POLYURETHANE SYSTEM.
6. WHERE REQUIRED TO MEET LABELING REQUIREMENTS, PROVIDE METAL ASTRAGALS.
7. FACTORY-REMOVED.
8. FLUSH DOOR BLOCKING FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL DOOR BLOCKING AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED ELSEWHERE. BLOCKING FOR FIRE RATED DOORS SHALL MEET THE DOOR MANUFACTURER'S LABELING REQUIREMENTS.

- C. INSTALLATION:
 1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
 2. PROVIDE CLEARANCES OF 1/8 INCH AT JAMB AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDED 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

083100 ACCESS DOORS AND PANELS

- A. QUALITY ASSURANCE:
 1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

- B. ACCEPTABLE MANUFACTURERS:
 1. MILCOR, INC., LIMA, OH.
 2. JELLINE, INC., BIRMINGHAM, MN.
 3. KARP ASSOCIATES, INC., MAPLETHORPE, NY.
 4. MM SYSTEMS CORPORATION, TUCKER, GA.
 5. NYSTROM, MINNEAPOLIS, MN

- C. DOOR TYPES:
 1. FIRE RATED METAL ACCESS DOOR FOR USE AT RATED PARTITIONS:
 - a. FLUSH TYPE DESIGN.
 - b. 16 GA FRAME: MINIMUM 20 GA WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER.
 - c. SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE.
 - d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
 - e. RETAIN TURN LATCH.
 2. NON RATED METAL WALL AND CEILING ACCESS DOOR FOR USE AT BACK-OF-HOUSE (BOH) AREAS:
 - a. FLUSH TYPE DESIGN.
 - b. 16 GA STEEL FRAME: 14 GA STEEL DOOR PANEL.
 - c. FOR INSTALLATION IN DRYWALL: INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
 - d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
 - e. HARDWARE: SCREW DRIVER SLOT, QUARTER TURN CAM LOCK FOR INTERIOR LOCATIONS; 2 1/4 O.C., MAXIMUM.
 - f. NON RATED CONCEALED DRYWALL ACCESS DOOR FOR USE AT SALES FLOOR AREAS:
 - a. RETAIN TURN LATCH.
 - b. 16 GA STEEL FRAME: MINIMUM 16 GA STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL.
 - c. INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
 - d. FULLY CONCEALED PIVOT ROD HINGE.
 - e. LATCHES: SCREW DRIVER OPERATED CAM LATCH.

- D. HIGH-SECURITY WALL ACCESS DOOR:
 - a. KARP ASSOCIATES, INC., "DSB-12SD SECURITY ACCESS DOOR," NYSTROM "HS-GMZ" OR APPROVED.
 - b. SIZE: 24 IN X 24 IN.
 - c. FRAME: 16 GA X 1/2" X 2" ANGLE WELDED WITH JOINTS GROUND SMOOTH; APPLIED 1/8" X 1" X 1" STOP ON FOUR SIDES.
 - d. DOOR: 10 GA STEEL PLATE.
 - e. HINGES: PROVIDE FULLY CONCEALED HINGE(S).
 - f. LOCK: PREPARED FOR INTERCHANGEABLE 5-PIN CYLINDER LOCK, AS SPECIFIED IN SECTION 087100.
 - g. WEATHERSTRIP: PROVIDE CONTINUOUS SEAL AS NECESSARY TO MAINTAIN ASSEMBLY WATERTIGHT WHEN CLOSED.
 - h. FINISH: FACTORY PREPARED FOR FIELD FINISH WITH MANUFACTURER'S STANDARD RUST-INHIBITIVE POWDER COAT, COLOR TO MATCH ADJACENT CONSTRUCTION.

- E. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED, WHEN NOT INDICATED OR SPECIFIED OTHERWISE, PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAINTENANCE ACCESS.

- F. INSTALLATION:
 1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED, AND FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT.
 2. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
 3. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

083326 OVERHEAD COILING SHUTTERS

- A. OVERHEAD COILING SHUTTER ASSEMBLIES SHALL INCLUDE SHUTTERS, GUIDES, BRACKETS, COUNTERBALANCE, HOOD, MOTOR, CONTROL MECHANISMS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

- B. QUALITY ASSURANCE:
 1. INSTALLERS: INSTALLATION SHALL BE PERFORMED BY A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE.
 2. APPROVED MANUFACTURER (ONE OF THE FOLLOWING, NO SUBSTITUTIONS):
 1. QMI SECURITY SOLUTIONS (ITASCA IL); 630-529-7111
 2. NSBS (800-804-0059) FOR EXTERIOR GRILLS ONLY.

- C. SHUTTER TYPE: AS INDICATED AND IN ACCORDANCE WITH T-MOBILE NATIONAL ACCOUNT REQUIREMENTS.

- D. EXAMINATION:
 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETERMINAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
 2. DO NOT BEGIN INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

- E. INSTALLATION:
 1. INSTALL SHUTTER AND OPERATING EQUIPMENT COMPLETE WITH ACCESSORIES IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, AND MANUFACTURER'S RECOMMENDATIONS.

- F. FIELD QUALITY CONTROL:
 1. VERIFY THAT MOVING PARTS OPERATE SMOOTHLY. COILING SHUTTERS ARE FREE FROM WARP, TWISTS, OR DISTORTION. SHUTTERS REMAIN IN REQUIRED POSITION, AND SAFETY FEATURES FUNCTION PROPERLY.
 2. REPAIR DAMAGE TO OVERHEAD COILING SHUTTERS TO MATCH MANUFACTURER'S ORIGINAL FINISH. REPLACE COMPONENTS WHICH CANNOT BE PROPERLY REPAIRED.

- G. FURNISH 10 SETS OF SPECIAL TOOLS FOR INSTALLATION AND MAINTENANCE OF HARDWARE. TOOLS FOR MAINTENANCE AND ADJUSTMENTS ARE TO BE DELIVERED TO T-MOBILE UPON COMPLETION OF THE WORK.

- H. IN GENERAL, UNLESS OTHERWISE INDICATED, FINISHES SHALL BE SATIN CHROME US26D.

- I. GENERAL CONSTRUCTION MASTERKEY ALL LOCKSETS AND CYLINDER ITEMS; PROVIDE 6 CONSTRUCTION MASTERKEYS.

- J. KEYING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL KEYING, AS FOLLOWS:
 1. CONSULT WITH T-MOBILE'S AUTHORIZED REPRESENTATIVE AND PREPARE DETAILED KEYING SCHEDULE ACCORDINGLY. T-MOBILE'S REPRESENTATIVE WILL COORDINATE KEYING REQUIREMENTS WITH AUTHORIZED REPRESENTATIVE OF HARDWARE SUPPLIER.
 2. STAMP "DO NOT DUPLICATE" ON ALL KEYS.

- K. BUTTS:
 1. FOR THE FOLLOWING PARAGRAPHS WHERE HAGER NUMBERS ARE LISTED, EQUIVALENT ITEMS OF LAWRENCE, MCKINNEY SALES COMPANY, OR THE STANLEY WORKS MAY BE SUPPLIED.
 2. EXTERIOR DOORS (OUTSWING) 38" WIDE OR LESS SHALL HAVE HAGER BB1191 BUTTS, SIZE 4 1/2 X 4 1/2.
 3. EXTERIOR DOORS 38" WIDE OR LESS SHALL HAVE HAGER BB1279 BUTTS, SIZE 4 1/2 X 4 1/2.
 4. PROVIDE BUTTS ON EXTERIOR DOORS WITH NON-REMOVABLE PINS (SET SCREW IN BARREL PIN NON-REMOVABLE WHEN DOOR IS CLOSED), AND SAFETY STUD.
 5. PROVIDE FULL THREADED WOOD SCREWS FOR WOOD DOORS AND/OR JAMBs.
 6. BUTT WIDTHS LISTED ARE MINIMUM. PROVIDE BUTTS OF WIDER THROW TO SUITE CONDITIONS FOR 180° OPERATION OF DOORS, STRUCTURAL CONDITIONS PERMITTING.

084413 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- A. SUMMARY:
 1. EXTERIOR ALUMINUM FRAMED STOREFRONT AND WINDOW SYSTEMS.
 2. INTERIOR ALUMINUM FRAMED STOREFRONT SYSTEMS.
 3. ALUMINUM FRAMED GLASS DOORS.

- B. REFERENCES:
 1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
 2. B209 - ALUMINUM AND ALUMINUM ALLOY SHEET AND PLATE.
 3. B221 - ALUMINUM ALLOY EXTRUDED BARS, RODS, WIRES, SHAPES, AND TUBES.
 4. E283 - RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS.
 5. E330 - STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.

DIVISION 8 - OPENINGS, CONT.

- <p

DIVISION 8 - OPENINGS, CONT.

- E. COMPLY WITH UBC REQUIREMENTS FOR IDENTIFICATION AND LABELING OF SAFETY-GLAZING MATERIALS IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT LOADS.
3. GLAZING CLIPS:
- PROVIDE GLAZING CLIPS AS INDICATED IN DRAWINGS
 - C.R. LAURENCE CO., INC.: 90 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC34 - 2" DIA.
 - C.R. LAURENCE CO., INC.: 135 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC34 - 2" DIA.
 - C.R. LAURENCE CO., INC.: 180 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC30 - 2" DIA.
- F. PREPARATION:
- CLEAN CONTACT SURFACES AND WIPE DRY.
 - SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLUG WEEP HOLES.
 - SURFACE SCHEDULED TO RECEIVE SEALANT, UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.
- F. INSULATION:
- UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (AGA) GLAZING MANUAL
 - SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
 - SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
 - UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
 - GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
 - PREPARE AND CUT TAPE TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
 - INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
 - POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINES.
 - GLAZING FOR FIRED RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 80, UNLESS REQUIRED OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
 - ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.

G. SCHEDULE:

 - TYPE 1: CLEAR TEMPERED GLAZING WHERE INDICATED AND SPECIFIED.
 - TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF 1/4 INCH GLASS. OUTER PANE SHALL BE TINTED HEAT STRENGTHENED OR TEMPERED GLASS; INNER PANE SHALL BE CLEAR GLASS.
 - PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. WHERE NOT REQUIRED BY CODE TO BE TEMPERED, PROVIDE ANNEALED, HEAT-STRENGTHENED OR TEMPERED GLASS AS DETERMINED BY GLASS MANUFACTURER'S GLASS ANALYSIS.

H. PROVIDE TEMPERED GLASS IN HAZARDOUS LOCATIONS TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

DIVISION 9 - FINISHES

- 090561.13 MOISTURE VAPOR EMISSION CONTROL
- A. GENERAL: PRE-FORMED MOISTURE SUPPRESSION MEMBRANE INSTALLED OVER CONCRETE SUBFLOOR AS A FLOOR COVERING UNDERLAYMENT.
- B. REFERENCES:
- D3273-0: STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER
 - E-96-05: STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
 - F 2170 - STANDARD TEST METHOD FOR DETERMINING RELATIVE HUMIDITY IN CONCRETE FLOOR SLABS USING IN SITU PROBES
- C. SUBMITTALS:
- MANUFACTURER'S CURRENT INSTALLATION INSTRUCTIONS
 - MANUFACTURER'S WARRANTY REGISTRATION WITH CONCRETE SUBFLOOR MOISTURE TEST RESULTS AND BUILDING AMBIENT AIR TEMPERATURE AND RELATIVE HUMIDITY TEST RESULTS
 - COORDINATION: COORDINATE THIS SECTION OF WORK AND DIRECTLY RELATED SECTION 5 WITH CONCRETE FLOOR CONSTRUCTION AND REPAIR AND FINISH FLOORING WORK.
 - E. MATERIALS
1. MANUFACTURER: HALEX CORPORATION; VERSASHIELD. WWW.HALEXCORP.COM (800)576-1636
2. PRODUCT NAME: VERSASHIELD 95 FLOORING UNDERLAYMENT
- a. MATERIAL: FREE-STANDING, DIMENSIONALLY STABLE, 4-Ply COMPOSITE PRODUCT, ENGINEERED AS A MOISTURE SUPPRESSION MEMBRANE TO BE USED ON CONCRETE FLOORS WHERE HIGH MOISTURE EXISTS.
- b. DIMENSIONS: [144 FT LONG BY 5 FT WIDE] STANDARD ROLL
- c. MOLD, MILDEW & FUNGAL RESISTANCE, ASTM D3273: 10 RATING
- d. MOISTURE VAPOR TRANSMISSION RATE, ASTM E96-05: LESS THAN 0.01 G/HR/ SQ M
- e. NO SUBSTITUTIONS PERMITTED
3. PRODUCT NAME: VERSASHIELD MBX FLOORING UNDERLAYMENT
- a. MATERIAL: FREE-STANDING, DIMENSIONALLY STABLE, 4-Ply COMPOSITE PRODUCT, ENGINEERED AS A MOISTURE SUPPRESSION MEMBRANE TO BE USED ON CONCRETE FLOORS WHERE HIGH MOISTURE EXISTS.
- b. DIMENSIONS: [144 FT LONG BY 5 FT WIDE] STANDARD ROLL
- c. MOLD, MILDEW & FUNGAL RESISTANCE, ASTM D3273: 10 RATING
- d. MOISTURE VAPOR TRANSMISSION RATE, ASTM E96-05: LESS THAN 0.01 G/HR/ SQ M
- e. NO SUBSTITUTIONS PERMITTED
4. ACCESSORIES: VERSASHIELD TAPE
- a. APPLICATION: JOINING OF MOISTURE SUPPRESSION UNDERLAYMENT SEAMS
- b. DESCRIPTION: MEMBRANE MANUFACTURER'S MOISTURE SUPPRESSION TAPE WITH PRESSURE SENSITIVE ADHESIVE.
- F. EXAMINATION:
- REFERENCE: SECTION 01700: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK
 - VERIFY THAT SUB-FLOOR SURFACES ARE SMOOTH AND FLAT WITHIN TOLERANCES SPECIFIED FOR THE TYPE OF WORK AND ARE READY TO RECEIVE FLOORING.
 - VERIFY THAT SUB-FLOOR SURFACES ARE FREE FROM ASTROGLIDE, PAINT, COATINGS, CURING COMPOUNDS, AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OILS, OR SILICONE, WITHOUT USING SOLVENTS. DO NOT INSTALL FLOORING IF ALKALINITY EXCEEDS 9 PH.
 - VERIFY SUB-FLOOR MOISTURE TEST RESULTS BY CONDUCT RELATIVE HUMIDITY PER ASTM F2170. DO NOT INSTALL FLOORING IF RH EXCEED 75% RELATIVE HUMIDITY. REPORT MOISTURE TEST RESULTS TO ARCHITECT PRIOR TO FLOOR INSTALLATION.
 - IF SUB-FLOOR TEST RESULTS EXCEED 75% RELATIVE HUMIDITY AND 9 PH, PROVIDE AND INSTALL MOISTURE MITIGATION SYSTEM. VERSASHIELD 95 UP TO 95% RELATIVE HUMIDITY OR VERSASHIELD MBX UP TO 99% RELATIVE HUMIDITY.
 - DO NOT INSTALL IF RH WITHIN THE CONCRETE EXCEEDS 99%
 - INSTALLED MOISTURE SUPPRESSION MEMBRANE WITH SMOOTH FILM SIDE FACING CONCRETE SLAB.
 - INSTALL IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S CURRENT WRITTEN INSTALLATION INSTRUCTIONS.
 - IF ANY JOBSITE CONDITION INTERFERES WITH COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, CONTACT MANUFACTURER AND OBTAIN WRITTEN JOB-SPECIFIC PROCEDURES. NOTIFY ARCHITECT OR T-MOBILE'S REPRESENTATIVE AS REQUIRED.
 - ADHESIVES - APPLY ADHESIVE TO MINERAL-COATED SURFACE OF MOISTURE SUPPRESSION MEMBRANE. USE ONLY WATER-BASED ADHESIVES. DO NOT USE SOLVENT-BASED ADHESIVES.
 - PROTECTION - PROTECT MOISTURE SUPPRESSION MEMBRANE FROM DAMAGE DURING FLOORING INSTALLATION. DO NOT TEAR, RIP, PUNCTURE, OR DAMAGE MEMBRANE WHILE WORKING. REPAIR ALL PUNCTURED OR DAMAGED AREAS ACCORDING TO MEMBRANE MANUFACTURER'S INSTRUCTIONS BEFORE FLOORING INSTALLATION. PROVIDE CONTINUOUS, INTACT MOISTURE SUPPRESSION MEMBRANE UNDER ENTIRE DESIGNATED FLOORING AREA.
 - INSTALL FLOORING ACCORDING TO FLOORING MANUFACTURER'S INSTRUCTIONS

DIVISION 9 - FINISHES, CONT.

- 092200 LIGHT GAGE METAL SUPPORT FRAMING
- A. SUMMARY: INTERIOR PARTITION, CEILING, AND SOFFIT CONSTRUCTION, NOT COVERED BY SECTION 054000.
- B. SYSTEM DESCRIPTION:
- STRUCTURAL DESIGN:
 - SELECT FRAMING SYSTEMS, GAGES, SUPPORTS, BRACING, AND CONNECTIONS AS NECESSARY TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
 - PARTITION FRAMING SHALL CONFORM TO THE WIDTHS INDICATED, UNLESS APPROVED OTHERWISE. PROVIDE THICKER GAGES AND DECREASED STUD SPACING AS NECESSARY TO MEET THE DESIGN REQUIREMENTS.
 - DESIGN LOADS:
 - INTERIOR CEILING ASSEMBLIES: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD, PLUS DEAD LOADS.
 - INTERIOR PARTITIONS: 5 POUNDS PER SQUARE FOOT UNIFORM LATERAL LOAD.
 - EXTERIOR SOFFITS: 25 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD. - DEFLECTION REQUIREMENTS: MAXIMUM OF 1/240 THE SPAN, EXCEPT MAXIMUM 1/360 AT TILE.

C. CODE REQUIREMENTS:

 - PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BE APPROVED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.
 - COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
 - FIRE RATING REQUIREMENTS TAKE PRIORITY OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
 - PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHT GAGE METAL FRAMING INSTALLATION.

D. MATERIALS:

 - LIGHT GAGE METAL FRAMING: ASTM C645; GALVANIZED; PROVIDE "C" SHAPED STUDS, U SHAPED RUNNERS, HAT AND Z" SHAPED FURRING CHANNELS, AND OTHER SIZES AND SHAPES AS NECESSARY. MINIMUM 26 GAGE, EXCEPT FURNISH THICKER GAGES AS REQUIRED TO MEET DEFLECTION REQUIREMENTS.
 - COLD ROLLED CHANNELS: RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.
 - SCREWS: SELF-TAPPING; LOW PROFILE HEAD.
 - SECURITY MESH: AMICO (ALABAMA METAL INDUSTRIES CORP) BIRMINGHAM AL (800)366-2642; ASM 50-13F, MINIMUM 13 GAGE, UNLESS APPROVED OTHERWISE.
 - PROPRIETARY CEILING SUSPENSION SYSTEM:

E. MANUFACTURER:

 - ASTM C645: HANSTROMS (800-207-2321).
 - ACCOFAST: SUPERFAST.
 - USC INTERIORS, INC (CHICAGO, IL 800-874-0968).
 - CHICAGO METALLIC (CHICAGO, IL LOS ANGELES, CA: 800-323-7164).

F. SUSPENSION SYSTEM: SIMILAR TO SYSTEM 650, OR 670; ASTM C635 HEAVY DUTY CLASSIFICATION.

G. SCHEDULE:

 - TYPE 1: CLEAR TEMPERED GLAZING WHERE INDICATED AND SPECIFIED.
 - TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF 1/4 INCH GLASS. OUTER PANE SHALL BE TINTED HEAT STRENGTHENED OR TEMPERED GLASS; INNER PANE SHALL BE CLEAR GLASS.
 - PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. WHERE NOT REQUIRED BY CODE TO BE TEMPERED, PROVIDE ANNEALED, HEAT-STRENGTHENED OR TEMPERED GLASS AS DETERMINED BY GLASS MANUFACTURER'S GLASS ANALYSIS.

DIVISION 9 - FINISHES, CONT.

- 092300 GYPSUM BOARD
- A. QUALITY CONTROL:
- PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED. ASSEMBLIES SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.
- B. MATERIALS:
- SYNTHETIC GYPSUM BOARD:
 - MANUFACTURERS: NATIONAL GYPSUM CO "GOLD BOND BRAND"; USG CORPORATION "SHEETROCK BRAND"; TEMPLE-INLAND GYPSUM, "SYNTHETIC GYPSUM."
 - 9/8 INCH THICK UNLESS NOTED OTHERWISE; PROVIDE TYPE X IN FIRE RATED PARTITIONS.
 - STANDARD BOARD: ASTM C36. - ACCESSORIES:
 - TRIM: CONCEALED FLANGE SCREW-ON TYPE; METAL: GA 216.
 - JOINT COMPOUND, TAPE, AND FINISHING COMPOUND: ASTM C475 AND GA 216.
 - SCREWS: ASTM C1002.
 - PROPRIETARY SKIM COAT: USG "TUFF-HIDE SHEETROCK BRAND PRIMER-SURFACER."
- C. INSTALLATION:
- INSTALLATION STANDARD: UNLESS SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH GYPSUM ASSOCIATION 216, "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD."
 - INSTALL WATER RESISTANT BOARD RESTROOM WALLS AS A SUBSTRATE FOR SURFACES.
 - SCREW FASTEN BOARD TO FRAMING, UNLESS APPROVED OTHERWISE.
 - TRIM:
 - USE LONGEST PRACTICAL LENGTHS, WITH NO PIECE LESS THAN 2 FEET LONG FOR CONTINUOUS RUNS GREATER THAN 3 FEET. SECURELY FASTEN AND ALIGN TRIM ENDS AT JOINTS.
 - PLACE CONCEALED FLANGE CORNER BEADS AT ALL EXTERNAL CORNERS, AT ANGLES OTHER THAN 90 DEGREES, BEND THE FLANGE TO CONFORM TO THE ANGLE.
 - PLACE CONCEALED FLANGE TYPE L TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
 - USE J-TYPE EXPOSED GYPSUM BOARD EDGES (INCLUDING LIGHT COVES) WHERE SECURELY FASTEN IS INDICATED.
 - CONTROL JOINTS:
 - POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.
 - POSITION CONTROL JOINTS AT LOCATIONS WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.
 - LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "L," "U," "T," OR OTHER IRREGULARLY SHAPED AREAS. - FINISHING:
 - PROVIDE FINISHING IN ACCORDANCE WITH GA 214.
 - WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM
 - LEVELS OF FINISH: PROVIDE AS INDICATED IN DRAWINGS
 - LEVEL 4: SALES AREA, PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.
 - LEVEL 3: PUBLIC TOILET ROOMS & HALLWAYS AS NOTED ON DRAWINGS.
 - LEVEL 2: BACK OF HOUSE, STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S CLOSETS OR AS NOTED ON DRAWINGS.
 - LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:
 - SURFACES OF FIRED RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK ("FIRE TAPING").
 - SURFACES OF ACoustical ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK
 - LEVELS: PROVIDE AT THE FOLLOWING LOCATIONS SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED, AND TOUCH-UP SURFACE DEFECTS.
 - PROPRIETARY SKIM COAT MATERIAL MAY BE USED IN LIEU OF JOINT COMPOUND AS SKIM COAT AT LEVEL 5 SURFACES

METAL STUD SCHEDULE				
INTERIOR				
HEIGHT	STUD	FLANGE	GAGE	SPACING
12'-0"	3 5/8"	1 5/8"	20	24" O.C.
14'-0"	3 5/8"	1 5/8"	20	16" O.C.
16'-0"	3 5/8"	1 5/8"	18	16" O.C.
18'-0"	3 5/8"	1 5/8"	16	12" O.C.

EXTERIOR				
HEIGHT	STUD	FLANGE	GAGE	SPACING
12'-0"	6"	2"	18	16" O.C.
14'-0"	6"	2"	16	12" O.C.
16'-0"	6"	2 1/2"	14	12" O.C.
18'-0"	6"	2 1/2"	12	12" O.C.

- 092200 INVENTORY ROOM SPECIFICATIONS
- A. WALLS AND CEILING
1. WALLS MUST BE DECK-TO-DECK, CEILING TO HARD DECK CEILING, OR 6" ABOVE CEILING AS DESCRIBED IN THE WALL TYPES ON SHEET A531.
2. HARDENED EXPANDED CARBON STEEL AND FIBER-CEMENT BACKERBOARD MATERIALS MUST BE INSTALLED ON THE INTERIOR SIDE OF THE INVENTORY ROOM WALL STUDS.
3. EXPANDED CARBON STEEL: SECURITY MESH: AMICO (ALABAMA METAL INDUSTRIES CORP) BIRMINGHAM AL (800)366-2642; ASM 50-13F, MINIMUM 13 GAGE, UNLESS APPROVED OTHERWISE. INSTALL ON THE INTERIOR SIDE OF THE WALL STUDS.
- I. STEEL MUST MEET OR EXCEED ASTM A-569 HSLA STEEL. CONVENTIONAL EXPANDED CARBON STEEL THAT IS NOT MANUFACTURED SPECIFICALLY FOR SECURITY PURPOSES IS NOT ACCEPTABLE FOR THIS USE.
- II. CARBON STEEL (MESH) SIZE OPENINGS MAY NOT EXCEED THE FOLLOWING DIMENSIONS: 0.5 INCH X 1.2 INCHES.
- III. ANCHOR: EXPANDED CARBON STEEL (INCLUDING ALL SEAMS) TO EACH STUD USING SHEET METAL COSECURE CLIPS (FASTENERS WITH AN EXPANDED SURFACE AREA) WITH FLAT HEAD PHILLIPS, ONE-WAY, STEEL SCREWS SPACED NO MORE THAN 12 INCHES APART VERTICALLY (DRYWALL SCREWS ARE UNACCEPTABLE). STEEL SCREWS MUST PENETRATE THROUGH THE STUDS BY AT LEAST 0.25 INCH, PER MANUFACTURER INSTRUCTIONS.
- IV. END JOINTS MUST BE BUTTED AND OCCUR OVER STUDS. IF OVERLAPPING IS NECESSARY, A LONGER SCREW MUST BE USED TO MAINTAIN A 0.25 INCH STUD PENETRATION.
- B. FIBER-CEMENT BACKERBOARD
- I. INSTALL 0.5 INCH FIBER-CEMENT BACKERBOARD (JAMES HARDIE BUILDING PRODUCTS, INC.) BACKERBOARD ON THE INTERIOR SIDE OF THE WALL STUDS (BUT DIRECTLY OVER THE EXPANDED CARBON STEEL).
- II. HARD BACKER FIBER-CEMENT BACKERBOARD MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. BACKERBOARD INFORMATION CAN BE FOUND AT: <HTTP://WWW.JAMESHARDIE.COM/BACKERBOARD/HOMEOWNER/HARDIBACKER500.PHP>
- III. END JOINTS MUST BE BUTTED AND OCCUR OVER STUDS.
4. AVOID VENTS IN THE INVENTORY ROOMS. IF REQUIRED, VENTS OR LOUVERS MUST BE:
- NO GREATER THAN 24 SQUARE INCHES AND LOCATED BEHIND (EXTERIOR SIDE OF) THE EXPANDED CARBON STEEL DESCRIBED IN SECTION 1.3.1 (ABOVE).
 - SUPPLY / RETURN DUCTS SHALL NOT EXCEED 24" SQUARE. INSTALL BURGLAR BARS IF OPENING EXCEEDS THE RECOMMENDED SIZE.
 - B. INVENTORY ROOM DOOR (

DIVISION 9 - FINISHES, CONT.

- 16.a. CHEMICAL-RESISTANT EPOXY GROUT: ANSI A118.3. COLOR AS INDICATED.
 16.b. PROVIDE PRODUCT CAPABLE OF RESISTING CONTINUOUS AND INTERMITTENT EXPOSURE TO TEMPERATURES OF UP TO 140 DEG F (60 DEG C) AND 212 DEG F (100 DEG C), RESPECTIVELY, AS CERTIFIED BY MORTAR MANUFACTURER FOR INTENDED USE.
 17. ELASTOMERIC SEALANTS: PROVIDE MANUFACTURER'S STANDARD CHEMICALLY CURING, ELASTOMERIC SEALANTS OF BASE POLYMER AND CHARACTERISTICS INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS OF DIVISION 7 SECTION 7 SECTION "JOINT SEALANTS".
 17.a. OUTDOOR-WEATHER-RESISTANT SILICONE SEALANT: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES GROUT, G, AND AS APPLICABLE TO NONPOROUS JOINT SUBSTRATES INDICATED; O; FORMULATED WITH FUNGICIDE.
 18. CEMENTITIOUS BACKER UNITS: PROVIDE PRODUCTS COMPLYING WITH ANSI A118.8, OF THICKNESS AND WIDTH INDICATED, AND IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS.
 19. MISCELLANEOUS MATERIALS: AS FOLLOWS:
 a. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS FOR INSTALLATIONS INDICATED.
 b. METAL EDGE STRIPS: WHITE-ZINC-ALLOY TERRAZZO STRIPS, 1/8 INCH (3.2 MM) WIDE AT TOP, PROVIDED INTEGRAL PROVISION FOR ANCHORAGE TO MORTAR BED OR SUBSTRATE, UNLESS OTHERWISE INDICATED.
 20. WATERPROOF MEMBRANE INSTALLATION: (COORDINATE WITH LANDLORD REQUIREMENTS)
 a. INSTALL WATERPROOF MEMBRANES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 b. PREPARATION: CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, CURING AGENTS, AND OTHER MATERIALS THAT WOULD IMPAIR BOND. CLEAN FLOORS WITH "BLAST-TRACK" UNIT IF NECESSARY.
 c. SLAB LEVELING: (COORDINATE WITH LANDLORD REQUIREMENTS)
 2. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SURFACE BEING THE PLAIN SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ALL ABRUPT CHANGES IN PLANE.
 3. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER.
 4. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.
 D. EXECUTION
 1. PROVIDE CONCRETE SUBSTRATES FOR TILE FLOORS INSTALLED WITH DRY-SET OR LIQUID-SET MORTARS THAT COMPLY WITH FLATNESS TOLERANCES AS SPECIFIED IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS FOR INSTALLATIONS INDICATED.
 a. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS PER TILE-SETTING MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS TO FILL CRACKS, HOLES, AND DEPRESSIONS.
 b. REMOVE PROTRUSIONS, BUMPS, AND RIDGES BY SANDING OR GRINDING.
 2. BLENDING: FOR TILE EXHIBITING COLOR VARIATIONS WITHIN THE RANGES SELECTED DURING SAMPLE SUBMITTALS, VERIFY THAT TILE HAS BEEN BLENDED IN THE FACTORY AND PACKAGED SO TILE UNITS TAKEN FROM ONE PACKAGE SHOW THE SAME RANGE IN COLORS AS THOSE TAKEN FROM OTHER PACKAGES AND MATCH APPROVED SAMPLES.
 3. ANSI TILE INSTALLATION STANDARDS: COMPLY WITH PARTS OF ANSI A108 SERIES OF TILE INSTALLATION STANDARDS IN "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO THE TYPES OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED OR REQUIRED.
 4. TCA INSTALLATION GUIDELINES: TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION." COMPLY WITH TCA INSTALLATION METHODS INDICATED OR REQUIRED.
 5. EXTEND TILE WORK INTO RECESSES AND UNDER OR BEHIND EQUIPMENT AND FIXTURES, TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS, UNLESS OTHERWISE INDICATED. TERMINATE WORK NEATLY AT OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.
 6. ACCURATELY FORM INTERSECTIONS AND RETURN, PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH, OR BUILT-UPS FOR STRAIGHT ALIGNED JOINTS. FIT TILE CLOSELY TO OBSTRUCTIONS, DRAINS, FIXTURES, AND OTHER PENETRATIONS SO PLATES, COLLARS, OR COVERS OVERLAP THE TILE.
 7. JOINTING PATTERN: LAY IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE. LAY OUT TILE WORK AND CENTER TILE FIELDS IN BOTH DIRECTIONS IN EACH SPACE OR ON EACH WALL AREA. ADJUST TO MINIMIZE TILE CUTTING. PROVIDE UNIFORM Joint widths, UNLESS OTHERWISE INDICATED.
 8. EXPANSION JOINTS: LOCATE EXPANSION JOINTS AND OTHER SEALANT-FILLED JOINTS, INCLUDING CONTROL, CONTRACTION, AND ISOLATION JOINTS, WHERE INDICATED DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS, AND TILE. DO NOT SAW-CUT JOINTS AFTER INSTALLING TILES.
 9. LOCATE JOINTS IN TILE SURFACES DIRECTLY ABOVE JOINTS IN CONCRETE.
 10. PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH REQUIREMENTS OF DIVISION 7 SECTION "JOINT SEALANTS."
 11. GROUT TILE TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING TILE INSTALLATION STANDARDS:
 12. FOR CERAMIC TILE GROUTS (SAND-PORTLAND CEMENT, DRY-SET, COMMERCIAL PORTLAND CEMENT, AND LATEX-PORTLAND CEMENT GROUTS), COMPLY WITH ANSI A108.10.
 13. FLOOR TILE INSTALLATION: INSTALL TILE TO COMPLY WITH REQUIREMENTS INDICATED, INCLUDING THOSE REFERENCING TCA INSTALLATION METHODS AND ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
 14. JOINT WIDTHS: INSTALL TILE ON FLOORS WITH THE FOLLOWING JOINT WIDTHS:
 15. PAVER TILE 1/4" (6.35 MM) MAX.
 16. BACK BUTTERING: FOR INSTALLATIONS INDICATED, OBTAIN 100 PERCENT MORTAR COVERAGE BY COMPLYING WITH APPLICABLE SPECIAL REQUIREMENTS FOR BACK BUTTERING OF TILE IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
 17. METAL EDGE STRIPS: INSTALL AT LOCATIONS INDICATED OR WHERE EXPOSED EDGE OF TILE FLOORING MEETS CARPET, WOOD, OR OTHER FLOORING THAT FINISHES FLUSH WITH TOP OF TILE.
 18. WALL TILE INSTALLATION: INSTALL TYPES OF TILE DESIGNED FOR WALL INSTALLATIONS TO COMPLY WITH MANUFACTURER'S REQUIREMENTS, INCLUDING THOSE REFERENCING TCA INSTALLATION METHODS AND ANSI SETTING-BED STANDARDS.
 19. JOINT WIDTHS: INSTALL TILE ON WALLS WITH THE FOLLOWING JOINT WIDTHS:
 20. WALL TILE: 1/16 INCH (1.6 MM).
 21. BACK BUTTERING: FOR INSTALLATIONS INDICATED, OBTAIN 100 PERCENT MORTAR COVERAGE BY COMPLYING WITH APPLICABLE SPECIAL REQUIREMENTS FOR BACK BUTTERING OF TILE IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
 22. CLEANING: ON COMPLETION OF PLACEMENT AND GROUTING, CLEAN ALL CERAMIC TILE SURFACES SO THEY ARE FREE OF FOREIGN MATTER. USE CLEANING MATERIALS AND METHODS THAT COMPLY WITH TILE AND GROUT MANUFACTURERS' WRITTEN INSTRUCTIONS.
- 096403 WOOD FLOORING
 A.GENERAL
 1. RELATED DOCUMENTS: DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
 2. SUMMARY
 a. ENGINEERED WOOD FLOOR.
 b. QUALITY ASSURANCE
 a. INSTALLER QUALIFICATIONS: INSTALLATION SHALL BE PERFORMED BY A FIRM EXPERIENCED IN THE APPLICATION OF SYSTEMS SIMILAR IN COMPLEXITY TO THOSE REQUIRED FOR THIS PROJECT. THE FIRM, INSTALLERS SHALL BE IN POSSESSION OF THE MANUFACTURER'S INSTALLATION MANUAL AND ADHERE TO THE INSTRUCTIONS.
 b. HARDWOOD FLOORING: COMPLY WITH NFMA GRADING RULES FOR SPECIES, GRADE, AND CUT. CERTIFICATION: PROVIDE FLOORING THAT CARRIES NFMA GRADE STAMP ON EACH BUNDLE OR PIECE.
 c. MAPLE FLOORING: COMPLY WITH MFMA GRADING RULES FOR SPECIES, GRADE, AND CUT. CERTIFICATION: PROVIDE FLOORING THAT CARRIES MFMA MARK ON EACH BUNDLE OR PIECE.
 d. SOUTHERN PINE FLOORING: COMPLY WITH SPIB GRADING RULES FOR SPECIES, GRADE, AND CUT.
 e. SOFTWOOD FLOORING: COMPLY WITH WCLB NO. 17 GRADING RULES FOR SPECIES, GRADE, AND CUT.
 4. PROJECT CONDITIONS

DIVISION 9 - FINISHES, CONT.

- a. CONDITIONING: MAINTAIN RELATIVE HUMIDITY PLANNED FOR BUILDING OCCUPANTS AND AN AMBIENT TEMPERATURE BETWEEN 65 AND 75 DEG F (18 AND 24 DEG C) IN SPACES TO RECEIVE WOOD FLOORING FOR AT LEAST SEVEN DAYS BEFORE INSTALLATION, DURING INSTALLATION, AND FOR AT LEAST SEVEN DAYS AFTER INSTALLATION, AFTER POST-INSTALLATION PERIOD, MAINTAIN RELATIVE HUMIDITY AND AMBIENT TEMPERATURE PLANNED FOR BUILDING OCCUPANTS.
 b. MOVE WOOD FLOORING INTO SPACES WHERE IT WILL BE INSTALLED, AT LEAST SEVEN DAYS BEFORE INSTALLATION.
 c. FOR PREPACKAGED PRODUCTS, OPEN SEALED PACKAGES TO ALLOW WOOD FLOORING TO ACCLIMATE.
 d. DO NOT INSTALL FLOORING UNTIL IT ADJUSTS TO THE RELATIVE HUMIDITY AND IS AT THE SAME TEMPERATURE AS THE SPACE WHERE IT IS TO BE INSTALLED.
 e. INSTALL FACTORY-FINISHED WOOD FLOORING AFTER OTHER FINISHING OPERATIONS, INCLUDING PAINTING, HAVE BEEN COMPLETED.
 B. PRODUCTS
 1. ENGINEERED-WOOD STRIP OR PLANK FLOORING PRODUCTS: AS INDICATED ON THE FINISH MATERIAL SCHEDULE, NO SUBSTITUTIONS. ENGINEERED-WOOD STRIP OR PLANK FLOORING: ANSI/HPIA LF.
 a. SPECIES AS INDICATED ON DRAWINGS.
 b. GRADE: MANUFACTURER'S STANDARD.
 c. THICKNESS: AS NOTED IN DRAWINGS.
 d. CONSTRUCTION: AS NOTED IN DRAWINGS.
 e. WIDTH: AS NOTED IN DRAWINGS.
 f. LENGTH: AS NOTED IN DRAWINGS.
 g. EDGES: AS NOTED IN DRAWINGS.
 h. FINISH: AS NOTED IN DRAWINGS.
 2. ACCESSORY MATERIALS
 a. WOOD FLOORING ADHESIVE: MASTIC RECOMMENDED BY FLOORING AND ADHESIVE MANUFACTURERS FOR APPLICATION INDICATED. (NOT USED IN FLOATING FLOOR SYSTEM)
 b. FASTENERS: AS RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN THAT RECOMMENDED IN NFMA'S "INSTALLING HARDWOOD FLOORING." (NOT USED IN FLOATING FLOOR SYSTEM)
 c. VAPOR RETARDER: ASTM D 4397, POLYETHYLENE SHEET NOT LESS THAN .60 MILS (0.15 MM) THICK.
 d. VERSASHIELD FLOORING UNDERLAYMENT WITH VERSASHIELD SEAM TAPE INSTALLED PER MANUFACTURER INSTRUCTIONS.
 e. CORK EXPANSION STRIP: COMPOSITION CORK STRIP COMPLYING WITH FS HH-C-576, TYPE I-B, CLASS 2.
 f. WOOD FEATURE STRIPS: 2-INCH-.51-MM) WIDE, SQUARE-EDGED WALNUT STRIPS FURNISHED IN LENGTHS AS LONG AS PRACTICAL AND IN THICKNESS TO MATCH WOOD FLOORING.
 g. METAL FEATURE STRIPS: 1/8-BY-1/8-INCH (3-BY-3-MM) SOLID BRASS STRIP, DESIGNED FOR CUTTING INTO ROUTED REVEAL IN WOOD FLOORING SURFACE.
 h. WOOD: AS SAME SPECIES AND GRADE AS WOOD FLOORING, UNLESS OTHERWISE INDICATED.
 i. WOOD BASE: 3/4 INCH (16 MM) THICK BY 2 INCHES (100 MM) HIGH.
 j. BASE SHOE MOLDING: 1/2 BY 3/4 INCH (13 BY 19 MM).
 k. THRESHOLD: TAPERED ON EACH SIDE AND ROUTED AT BOTTOM OF ONE SIDE TO ACCOMMODATE WOOD FLOORING.
 l. REDUCER STRIP: AS NOTED IN DRAWINGS.
 C. PREPARATION
 1. CONCRETE SLABS: GRIND HIGH SPOTS AND FILL LOW SPOTS TO PRODUCE A MAXIMUM 1/8-INCH (3-MM) DEVIATION IN ANY DIRECTION WHEN CHECKED WITH A 10-FOOT (3-M) STRAIGHTEDGE.
 2. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES.
 3. REMOVE COATINGS, INCLUDING CURING COMPOUNDS, AND OTHER SUBSTANCES ON SUBSTRATES THAT ARE INCOMPATIBLE WITH INSTALLATION ADHESIVES AND THAT CONTAIN SOA, WAX, OIL, OR SILICONE, USING MECHANICAL METHODS RECOMMENDED BY MANUFACTURER. DO NOT USE SOLVENTS.
 4. BROOM OR VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE PRODUCT INSTALLATION. AFTER CLEANING, EXAMINE SUBSTRATES FOR MOISTURE, ALKALINE SALTS, CARBONATION, OR DUST. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
 D. EXECUTION
 1. INSTALLATION
 a. COMPLY WITH FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, BUT NOT LESS THAN RECOMMENDATIONS IN NFMA'S "INSTALLING HARDWOOD FLOORING."
 b. CONCRETE SUBSTRATES: VERIFY THAT SLABS ARE DRY ACCORDING TO TEST METHODS RECOMMENDED BY FLOORING MANUFACTURER OR, IF NONE, BY TEST METHODS IN NFMA'S "INSTALLING HARDWOOD FLOORING."
 c. WHERE WOOD FLOORING IS ADHESENIVELY ATTACHED TO CONCRETE SLABS, VERIFY THAT SLABS ARE FREE OF CURING COMPOUNDS, SEALERS, HARDENERS, AND OTHER MATERIALS THAT MAY INTERFERE WITH ADHESIVE BOND.
 d. PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING OF NOT LESS THAN DIRECTED BY MANUFACTURER.
 e. ENTHALTED-WOOD FLOORING: SEE ADHESIVE PER MANUFACTURER'S INSTRUCTIONS.
 f. WOOD TRIM NAIL BASEBOARD TO WALL AND NAIL SHOE MOLDING OR OTHER TRIM TO BASEBOARD. DO NOT NAIL TO FLOORING.
 g. PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING
 E. CLEANING AND PROTECTION
 1. COVER WOOD FLOORING BEFORE AND AFTER FINISHING DURING REMAINDER OF CONSTRUCTION PERIOD. USE HEAVY KRAFT-PAPER OR OTHER SUITABLE COVERING. DO NOT USE PLASTER SHEET OR FILM THAT COULD CAUSE CONDENSATION.
 2. CLEAN AND BUFF PER MANUFACTURE'S RECOMMENDATION IMMEDIATELY PRIOR TO BUILDING OCCUPANCY.
- 095300 ACOUSTICAL PANEL CEILINGS
 A. REFERENCES
 1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
 a. C635 - METAL SUSPENSION SYSTEMS FOR ACOUSTIC TILE AND LAY-IN PANEL CEILINGS.
 b. C636 - RECOMMENDED PRACTICE FOR THE INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTIC TILE AND LAY-IN PANELS.
 B. QUALITY ASSURANCE:
 1. CODES: CONFORM TO THE REQUIREMENTS OF THE AHJ, SEISMIC ZONE AS INDICATED ON THE DRAWINGS, CISCA, AND THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
 C. PRODUCTS:
 1. ACOUSTICAL PANELS: AS INDICATED ON THE DRAWINGS.
 2. SUSPENSION SYSTEM: EXPOSED T SYSTEM; ASTM C635, HEAVY DUTY CLASSIFICATION; DIRECT HUNG: EXPOSED "T" DESIGN: FACTORY BAKED ON FINISH TO MATCH ACOUSTICAL PANELS. FURNISH STABILIZER BARS, SPLICES, EDGE AND WALL MOLDINGS, AND OTHER ITEMS AS NECESSARY TO COMPLETE SUSPENDED CEILING GRID SYSTEM.
 D. INSTALLATION
 1. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.
 2. INSTALL SYSTEM IN ACCORDANCE WITH ASTM C636, IBC 1621.2.5 AND CISCA, THE MANUFACTURER'S INSTRUCTIONS, AND AS SUPPLEMENTED IN THIS SECTION.
 3. INSTALL GRID TO PROVIDE FINGER-JEAD CEILING TRUE TO LINES AND LENGTHS INDICATED, WITHIN THE SPECIFIED TOLERANCES.
 4. INSTALL SUSPENSION SYSTEMS IN A MANNER TO SUPPORT ALL SUPERIMPOSED LOADS, WITH MAXIMUM PERMISSIBLE DEFLECTION OF 1/270 OF SPAN. AT LOCATIONS WHERE PARTITIONS EXTEND TO CEILING, ONLY, INSTALL SUPPLEMENTARY DIAGONAL BRACING TO STRUCTURE AT MAXIMUM 8'-0" O.C. ALONG LENGTH OF PARTITION, AND ABOVE EACH DOOR HINGE AND STRIKE JAMB.
 5. HANGER SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSION SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
 6. OPEN CROWN ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.
 7. ANCHORAGE:
 a. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM UNLESS OTHERWISE NOTED.
 b. DO NOT FASTEN TO THE UPPER FLUTES OF METAL DECKING. DO NOT USE FASTENERS IN STEEL DECK WHICH PENETRATE MORE THAN 1 INCH.
 c. VERIFY LOCATION OF ALL CONDUIT IN POURED CONCRETE CONSTRUCTION BEFORE MAKING ATTACHMENTS.
 8. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. MITER CORNERS. PROVIDE EDGE MOLDINGS AT JUNCTIONS WITH OTHER INTERRUPTIONS. FABRICATE EDGE MOLDINGS TO FIT THE SURFACES ENCOUNTERED.

DIVISION 9 - FINISHES, CONT.

9. FORM EXPANSION JOINTS AS DETAILED. MAINTAIN VISUAL CLOSURE.
 10. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND MILL RECESSED REGULAR EDGE INTO PARTIAL BORDER UNITS SUPPORTED AT EDGE BY WALL MOLDING.
 11. ADJUST SAGS OR TWISTS WHICH DEVELOP IN THE CEILING SYSTEM AND REPLACE PARTS WHICH ARE DAMAGED OR DEFECTIVE.
 12. INSTALL HOLD-DOWN CLIPS TO RETAIN PANELS TIGHT TO GRID SYSTEM WITHIN 20 FT OF THE CEILING SURFACE.
 13. TOLERANCES:
 a. VARIATION FROM FLAT AND LEVEL SURFACE: 1/8 INCH IN 12 FT.
 b. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: TWO DEGREES MAXIMUM.
 E. PERFORMANCE
 1. SEISMIC PERFORMANCE: ACOUSTICAL CEILING SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7.
 2. SURFACE-BURNING CHARACTERISTICS: COMPLY WITH ASTM E 84; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
 3. FLAME-Spread INDEX: COMPLY WITH ASTM E 1264 FOR CLASS A MATERIALS.
 4. SMOKE DEVELOPED INDEX: [50] (450) OR LESS.
 5. FIRE-RETAINANCE RATINGS: COMPLY WITH ASTM E 119; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
 6. SEISMIC STRUTS: MANUFACTURER'S STANDARD COMPRESSION STRUTS DESIGNED TO ACCOMMODATE LATERAL FORCES.
 7. SEISMIC CLIPS: MANUFACTURER'S STANDARD SEISMIC CLIPS DESIGNED AND SPACED TO SECURE ACOUSTICAL TILES IN-PLACE.
 096500 RESILIENT FLOORING
 A. SUMMARY
 1. RESILIENT SHEET FLOORING.
 2. RESILIENT BASE.
 B. SUBMITTALS
 1. SUBMIT PRODUCT LITERATURE FOR EACH PRODUCT PROPOSED, INCLUDING BASE, RESILIENT FLOORING, TRANSITION STRIPS, AND ADHESIVES.
 2. SUBMITTALS: SUBMIT SAMPLES OF EACH TYPE OF RESILIENT FLOORING, AND EACH TYPE OF RUBBER BASE FOR COLOR SELECTION BY THE INTERIOR DESIGNER.
 C. MATERIALS:
 1. RESILIENT SHEET FLOORING: AS INDICATED ON THE DRAWINGS
 2. RUBBER BASE:
 a. RESILIENT BASE: ASTM F1861, TYPE TPR THERMOPLASTIC RUBBER; 1/8 INCH THICK; ROLL STOCK COLOR AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 b. ACCESSORIES:
 a. SUBFLOOR FILLER: PORTLAND CEMENT BASED LATEX FILLER, MIXED WITH WATER TO PRODUCE A SELF LEVELING UNDERLAYMENT, OR CEMENTITIOUS PASTE, AS APPROPRIATE TO PROJECT REQUIREMENTS.
 b. ADHESIVES: TYPES RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.
 c. TRANSITION STRIPS: VINYL: PRODUCTS AS INDICATED; COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.
 d. ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER FLOORING SYSTEM, SUCH AS FLOORING, ADHESIVE, AND TACKING, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
 D. GENERAL RESILIENT FLOORING INSTALLATION REQUIREMENTS:
 1. INSTALL SUBFLOOR FILLER TO FILL LOW SPOTS, CRACKS, CONSTRUCTION JOINTS, HOLES AND OTHER DEFECTS, AND AS REQUIRED TO ADJUST LEVEL TO MEET ADJACENT FINISHES, FEATHER TO MAXIMUM SLOPE OF 1/8 INCH IN 3 FEET; FLOAT TO SMOOTH, FLAT, HARD SURFACE. PROHIBIT TRAFFIC OVER FILLER.
 2. INSTALL ALL RESILIENT FLOORING WHERE SCHEDULED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 3. UNLESS INDICATED OTHERWISE, INSTALL RESILIENT FLOORING WITH JOINTS AND SEAMS AS INDICATED ON THE DRAWINGS.
 4. TACK FEATHER RESILIENT FLOORING AT CENTERLINE OF DOOR AT DOOR OPENINGS WHERE ADJACENT FLOOR FINISH IS DISSIMILAR, AND WHERE NO THRESHOLD IS INDICATED.
 5. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.
 6. SCRIBE FLOORING TO WALLS, COLUMNS, CABINETS, FLOOR OUTLETS AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS.
 7. CLEAN SUBSTRATE, SPREAD CEMENT EVENLY IN QUANTITY RECOMMENDED BY MANUFACTURER TO ENSURE ADHESION OVER ENTIRE AREA OF INSTALLATION, SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF FLOORING BEFORE INITIAL SET.
 8. SET FLOORING IN PLACE, PRESS WITH HEAVY ROLLER TO ENSURE FULL ADHESION.
 9. SEAL JOINTS BETWEEN FLOORING AND ADJACENT MATERIALS AND STRUTS.
 a. TACK FEATHER IN OTHER JOINTS AND AREAS WITH CLEAR SILICONE SEALANT.
 E. SPECIAL REQUIREMENTS FOR SHEET FLOORING:
 1. INSTALL SHEET FLOORING TO A MAXIMUM 1/3 FULL MATERIAL WIDTH, WITH LENGTH OF SHEET PARALLEL TO LENGTH OF ROOM, WHERE CUTTING IS REQUIRED, DOUBLE CUT AND WELD AS SPECIFIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. SEAMS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
 3. UNLESS INDICATED OTHERWISE, LAY FLOORING WITH SEAMS PARALLEL TO BUILDING LINES TO PRODUCE MINIMUM NUMBER OF SEAMS.
 4. SPECIAL FLASHED COVED BASE REQUIREMENTS:
 a. PROVIDE COVE FILLET AT INTERSECTION OF FLOOR AND WALL TO EASE TRANSITION.
 b. MITER COVE: MITER COVE BASE, WITH ALL CORNER JOINTS, PENETRATIONS, AND TRANSITIONS.
 c. CUT TOP EDGE WITH CUP TRIM, MITER ALL TRIM CORNER JOINTS. INSTALL TRIM IN MAXIMUM PRACTICAL LENGTHS WITH NO PIECE SHORTER THAN 18 INCHES FOR CONTINUOUS RUNS LONGER THAN 18 INCHES.
 F. RUBBER BASE INSTALLATION:
 1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 2. FIT JOINTS VERTICAL, FLAT, AND ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MINIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 12 INCHES, UNLESS KEPT AS REQUIRED BY WALL CONDITIONS.
 3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK TOE KICKS IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.
 4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
 5. OUTSIDE CORNERS:
 a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.
 b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.
 c. STRETCH TOE OF COVED BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH SURFACE.
 6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.
 G. CLEANING:
 1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.
 2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 098100 ACOUSTIC INSULATION
 A. SUMMARY: ACOUSTIC INSULATION AND SEALANTS.
 B. MATERIALS:
 1. MANUFACTURERS: JOHNS MANVILLE "SOUND CONTROL BATT", CERTAINTEED "GREENGUARD CERTIFIED", OWNS CORNING "SOUND CONTROL BATT", BATT, AND OTHERS.
 2. ACOUSTIC INSULATION: ASTM C685, TYPE I, UNFACED GLASS FIBER BATT, BLANKET, OR ROLL; MINIMUM FIRE HAZARD CLASSIFICATION RATING OF 25/50 PER ASTM E84; MINIMUM 3-INCH THICK, UNLESS REQUIRED OTHERWISE TO MEET THE STC REQUIREMENTS INDICATED OR SPECIFIED; WIDTHS TO FRiction-Fit BETWEEN STUDS, WHERE INDICATED FOR INSTALLATION IN STUD WALLS.
 3. ACOUSTICAL SEALANT: NON-HARDENING, NON-SKINNING, FOR USE IN CONJUNCTION WITH GYPSUM BOARD; SIMILAR TO USC "ACOUSTICAL SEALANT."
 4. ACCESSORIES: FURNISH OTHER ACCESSORIES SUCH AS FASTENERS AND RETAINERS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE INSTALLATION.
 C. INSULATION:
 1. INSTALL IN

DIVISION 9 - FINISHES, CONT.

- E. MATERIALS:
- GENERAL REQUIREMENTS: PAINTS NOT SPECIFICALLY LISTED SHALL BE "FIRST QUALITY" COMMERCIAL PRODUCTS FROM ONE OF THE FOLLOWING:
 - BENJAMIN MOORE PAINT COMPANY.
 - ICI PAINTS NORTH AMERICA
 - ACRYLIC WALL SIZE: ONE OF THE FOLLOWING:
 - ICI DEVCO "WONDERPRIME" DR51701 VAPOR BARRIER PRIMER/SEALER.
 - ICI DULUX "ULTRA-HIDE" 1060 VAPOR BARRIER PRIMER/SEALER.
 - BENJAMIN MOORE PAINT COMPANY "MORE'S WALL-GRIP 203."
 - SURFACE PREPARATION:
 - PREPARE SURFACES BY REMOVING ALL DIRT, DUST, GREASE, OIL, MOISTURE, AND OTHER CONTAMINANTS WHICH WILL IMPAIR THE PROPER ADHESION OF THE FINISH.
 - FERROUS METAL: SHOP PRIMED UNDER OTHER SECTIONS; CLEAN PREVIOUSLY PRIMED SURFACES WITH NON-PETROLEUM BASED SOLVENT TO REMOVE OIL AND GREASE. REMOVE LOOSE RUST, BLISTERED AND PEELING PAINT TO BARE METAL BY SCRAPING, SANDING, AND WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP2 AND SSPC-SP3. IMMEDIATELY APPLY TOUCH UP PRIME DAMAGED OR ABRASION SURFACES. LIGHTLY SAND ALL SHOP PRIMED PAINTED SURFACES TO RECEIVE PAINT FINISH.
 - Galvanized ferrous metal: clean with 5M "SCOTCHBRITE HEAVY DUTY" (Brown) Pad, as necessary, to achieve sufficient profile for paint adhesion.
 - UNPRIMED FERROUS METAL:
 - SOLENT CLEAN IN ACCORDANCE WITH SSPC SP-1.
 - COMMERCIAL BLAST PER SSPC SP6.
 - WOOD - OPAQUE PAINT FINISH:
 - SPOT COAT KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER.
 - FILL ALL NAIL HOLES AND CRACKS. SAND FILLER SMOOTH AND LEVEL WITH WOOD SURFACE.
 - WOOD - TRANSPARENT FINISH: FILL ALL EXPOSED FINISH NAIL HOLES AND CRACKS WITH MATCHING COLOR FILLER AFTER PRIME COAT IS APPLIED. SAND FILLER SMOOTH AND LEVEL WITH ADJACENT SURFACES.
 - COATING: REMOVE ALL MASKING UNITS. REMOVE ALL CONTAMINANTS BY WASHING AND WIRE BRUSHING. SANDBLAST IF NECESSARY.
 - EXISTING FINISHED SURFACES TO BE REPAINTED:
 - REMOVE LOOSE, BLISTERED, SCALDED, OR CRAZED FINISHES TO BARE SUBSTRATE; FEATHER NEW WORK INTO EXISTING WORK. PREPARE SURFACES TO THE NEAREST BREAK LINE IF NECESSARY TO BLEND NEW FINISHES WITH OLD FINISHES.
 - WASH AND RINSE SURFACES WITH TRISODIUM PHOSPHATE AND WATER OR OTHER SOLUTION REQUIRED TO REMOVE REMAINING FILM, WAX, OIL, GREASE, SMOKE OR FOREIGN MATTER WHICH WILL IMPAIR BOND, OR CAUSE BLEED THROUGH, OF NEWLY APPLIED FINISHES.
 - LIGHTLY SPOT COAT OR APPLY A LIQUID DEGLASSER ON EXISTING SEMI-GLOSS AND HIGH-GLOSS FINISHES BEFORE REFINISHING.
 - SPECIAL APPLICATION REQUIREMENTS:
 - UNLESS SPECIFIED OR INDICATED OTHERWISE, FOLLOW PAINT MANUFACTURER'S LABEL DIRECTIONS FOR GENERAL APPLICATION PROCEDURES AND COVERAGE RATES.
 - DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY. MAKE SURE EACH COAT OF FINISH IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.
 - TINT FILLER TO MATCH STAIN WHEN CLEAR FINISHES ARE SPECIFIED; WORK FILLER WELL INTO GRAIN AND, BEFORE IT HAS SET, WORKING PERPENDICULARLY TO THE GRAIN, WIPE THE EXCESS FROM THE SURFACE.
 - OPAQUE FINISHES:
 - APPLY NUMBER OF COATS SCHEDULED FOR EACH APPLICATION, EXCEPT THAT ADDITIONAL FINISH COATS SHALL BE APPLIED AS NECESSARY FOR COMPLETE HIDING OF SUBSTRATE COLORS.
 - APPLY PRIMER COATS UN-TINTED, WHERE MORE THAN ONE COAT OF PAINT IS REQUIRED, TINT EACH SUCCESSING COAT UP TO THE FINAL COAT SIMILAR IN TINT, BUT SLIGHTLY LIGHTER IN VALUE (SHADE).
 - SAND LIGHTLY BETWEEN COATS IF NECESSARY TO ACHIEVE REQUIRED FINISH; SAND BETWEEN ALL COATS APPLIED TO WOOD SUBSTRATES.
 - ROLLERS FOR APPLICATION AND BACKROLLING OF LATEX PAINTS SHALL HAVE A NAP OF 3/8 INCH OR LESS.
 - WHERE ROLLER TEXTURE IS SCHEDULED FOR APPLICATION TO GYPSUM BOARD SURFACES, COATS MAY BE ROLLER APPLIED, OR SPRAY APPLIED AND BACKROLLED AT CONTRACTOR'S OPTION.
 - FACTORY PRIMED SURFACES: APPLY SCHEDULED FINISH SYSTEM, LESS PRIMER COAT, EXCEPT AS NECESSARY TO FATCH DAMAGE TO FACTORY PRIME COATING.
 - EXCEPT WHERE SCHEDULED OR INDICATED OTHERWISE, THE INTENT IS TO PAINT ALL NEW ROOMS AND AREAS.
 - EXISTING AREAS WHICH HAVE NOT BEEN REMODELED OR DO NOT HAVE PATCHED SURFACES ARE NOT TO BE REPAINTED. WHERE EXISTING SURFACES HAVE BEEN REMODELED OR PATCHED THE ENTIRE ROOM IS TO BE REPAINTED, INCLUDING THE ASSOCIATED ACCESS PANELS, ELECTRICAL PANELS, HOLLOW METAL DOORS AND FRAMES (BOTH SIDES), AND SIMILAR ELEMENTS WITHIN THE ROOM.
 - INTERIOR SYSTEMS:
 - ROLLER TEXTURE: LATEX SYSTEM:
 - SYSTEM: THREE COATS - FIRST COAT LATEX PRIMER SEALER (UN-TINTED), SECOND AND THIRD COAT LATEX PAINT.
 - SHEEN: ROLLER TEXTURE, SATIN SHEEN, EXCEPT PROVIDE FLAT SHEEN AT LIGHT COVES, CEILINGS, SKYLIGHT AREAS, CLOSEREST AREAS, INTERIOR FASCIAS, AND OTHER LIGHT SENSITIVE SURFACES. VERIFY LOCATIONS OF EACH SHEEN WITH ARCHITECT BEFORE PROCEEDING WITH WORK.
 - APPLICATION:
 - USE ON ALL EXPOSED GYPSUM BOARD SURFACES, INCLUDING THE EXPOSED PORTIONS OF WALL SURFACES BETWEEN ADJACENT WALL-MOUNTED FIXTURES.
 - PROVIDE PRIME COAT ONLY BEHIND PERMANENTLY MOUNTED MECHANICALLY WALL MOUNTED FIXTURES.
 - DO NOT APPLY PRIMER OR PAINT COATINGS TO SURFACES TO RECEIVE ADHESIVELY MOUNTED MIRRORS OR TILE.
 - GYPSUM BOARD - SURFACES TO RECEIVE WALL COVERING: APPLY ONE COAT OF ACRYLIC WALL SIZE.
 - COLOR SCHEDULE: PROVIDE PAINT COLORS TO MATCH THOSE INDICATED ON THE DRAWINGS. WHERE A PAINT COLOR IS LISTED FROM A SPECIFIC MANUFACTURER, PAINT PRODUCTS FROM OTHER APPROVED MANUFACTURERS MAY BE USED, PROVIDED THE COLOR EXACTLY MATCHES THE SPECIFIED COLOR, AND THE PAINT SYSTEM MEETS THE SPECIFIED REQUIREMENTS. WHERE NO PAINT COLOR IS INDICATED, PROVIDE COLOR AND SHEEN AS SELECTED BY THE ARCHITECT.
 - INSTAL SEALANT BEHIND FLANGES AND AT PENETRATIONS THROUGH PANELING, AND BETWEEN TOP CAP OF PANEL AND SUBSTRATE.
 - CLEANING: REMOVE EXCESS ADHESIVE FROM FACE OF LAMINATE USING SOLVENT RECOMMENDED BY MANUFACTURER.

DIVISION 10 - SPECIALTIES

- 101402 REST ROOM SIGNAGE
- A. SUMMARY:
- REQUIRED INTERIOR SIGNAGE.
 - INSTALLATION OF SIGNAGE.
- B. SYSTEM DESCRIPTION:
- ACCESSIBILITY SIGNAGE: PROVIDE ACRYLIC PLASTIC REVERSE SILK SCREENED SIGNS WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, RAISED LETTERS, AND BRAILLE, AT ACCESSIBLE TOILET FACILITIES, ONE FOR EACH SEX.
- C. QUALITY ASSURANCE:
- REGULATORY REQUIREMENTS: SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
- D. MATERIALS:
- PLASTIC SHEET: 1/8 INCH THICK ACRYLIC SHEET; LOW GLOSS FINISH.
 - DOUBLE STICK TAPE: 3M "SCOTCH BRAND #665" DOUBLE-STICK, DOUBLE-COATED TAPE, 1/4" WIDE.
- SECTION 10810 - TOILET ACCESSORIES
- A. QUALITY ASSURANCE
- CONFORM TO APPLICABLE ACCESSIBILITY CODE FOR LOCATING ACCESSORIES.
- B. MATERIALS
- STAINLESS STEEL: SHEET - IN ACCORDANCE WITH ASTM A 167, TYPE 304.
 - STAINLESS STEEL: TUBING - IN ACCORDANCE WITH ASTM A 269.
 - GALVANIZED STEEL: IN ACCORDANCE WITH ASTM A 36.
 - MIRROR GLASS: IN ACCORDANCE WITH ASTM C 1036, TYPE L, CLASS 1, QUALITY Q1.

DIVISION 10 - SPECIALTIES, CONT.

- C. ACCESSORIES:
- FASTENERS: STAINLESS STEEL WHERE EXPOSED, HOT DIP GALVANIZED WHERE CONCEALED; TYPE BEST SUITED TO SUBSTRATE CONDITIONS.
 - FRAMED MIRROR: BOBRICK B-1652436
 - WASTE RECEPTACLE: PROVIDED BY T-MOBILE, INSTALLED BY G.C.
 - SEAT COVER DISPENSER: HEALTH GUARDS ITEM# 420660, MODEL #HG12-FURNISHED BY T-MOBILES VENDOR, INSTALLED BY G.C.
 - GRAB BARS: BOBRICK B-6806
 - ARTIFICIAL HAND DRYER: EXCEL XL-BW WITH ADA RECESSED MOUNTING KIT 40502.
 - FIXED NOZZLE, WHITE FINISH, FURNISHED BY T-MOBILE'S VENDOR, INSTALLED BY G.C.
 - TOILET PAPER DISPENSER: BOBRICK B-76857
- D. FABRICATION:
- USE STAINLESS STEEL FOR EXPOSED SURFACES; GALVANIZED STEEL MAY BE USED IN CONCEALED LOCATIONS. FORM EXPOSED SURFACES FROM SINGLE SHEET OF STOCK, FREE FROM JOINTS, AND FLAT WITHOUT DISTORTION. WELD JOINTS OF FABRICATED COMPONENTS AND GRIND SMOOTH. FABRICATE GRAB BARS OF TUBING, FREE OF VISIBLE JOINTS, RETURN TO WALL WITH END ATTACHMENT FLANGES. KNUBL GRIP SURFACES. FABRICATE SOAP DISPENSERS TO OPERATE WITH LESS THAN 5 POUND FORCE. PROVIDE HANGERS, ADAPTERS, ANCHOR PLATES AND ACCESSORIES REQUIRED FOR INSTALLATION. KEY LOCKS ALIKE. FURNISH SIX (6) KEYS.
 - FRAMED MIRROR: REMOVE COAT OF ORGANIC MIRROR BACKING COMPOUND TO THE BACK SURFACE OF THE GLASS.
 - PACKING: GALVANIZED STEEL SHEET. ISOLATE GLASS FROM FRAME AND BACKING WITH RESILIENT, WATERPROOF PADDING.
 - FINISHES:
 - STAINLESS STEEL: NO. 4 SATIN.
 - Galvanizing: ASTM A 123 TO 1.25 OUNCES PER SQUARE FOOT.
 - CHROME PLATING: ASTM B 456, TYPE SC 2, POLISHED FINISH
 - SHOP ASSEMBLE UNITS AND PACKAGE COMPLETE WITH ANCHORS AND FITTINGS.
- E. INSTALLATION:
- SET PLUMB AND LEVEL, SQUARE AND RIGIDLY ANCHORED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

104416 FIRE EXTINGUISHERS AND CABINETS

- A. SUBMITTALS: PRODUCT LITERATURE, INCLUDING EXTINGUISHER DIMENSIONS.
- B. EXTINGUISHERS: MULTI-PURPOSE DRY CHEMICAL TYPE: HEAVY DUTY DOT STEEL TANK; UL RATING 2A-10B.C, 5 LB CAPACITY. FM APPROVED; RED ENAMEL FINISH; PRESSURE GAGE; METAL VALVES AND SIPHON TUBES.
- C. FIRE EXTINGUISHER CABINETS:
- TYPE (ONE OF THE FOLLOWING): POTTER-ROEMER, INC. #7023-DV-VB-RR OR #7023-DV-VB-RR-FRC AT RATED CONSTRUCTION, LARSEN'S MANUFACTURING COMPANY #2409-R3 OR IFS-2409-R3 AT RATED CONSTRUCTION, J.L. INDUSTRIES #1817V17 OR #1817V17-R3 AT RATED CONSTRUCTION.
 - STYLE: SEMI-RECESSED (APPROXIMATELY 2-1/2" PROJECTION; ROLLED EDGE) STEEL FRAME AND DOOR WITH CONTEMPORARY 2 INCH WIDE DOUBLE STRENGTH GLASS INSERT.
 - FINISH: MANUFACTURER'S STANDARD BAKED WHITE ENAMEL INTERIOR; FURNISH TO SECTION 099000 FOR FIELD PAINTING.
 - LETTERING: BLACK LETTERING IN VERTICAL FORMAT.
- D. FIRE EXTINGUISHER BRACKETS: MANUFACTURER'S STANDARD J-TYPE. PROVIDE AT FIRE EXTINGUISHER LOCATIONS WHERE NO CABINET IS INDICATED.
- E. INSTALLATION:
- INSTALL BRACKETS 48 INCHES FROM FINISHED FLOOR TO TOP OF BRACKET.
 - SECURE BRACKETS TO FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - INSTALL CABINETS PLUMB AND LEVEL IN WALL OPENINGS IN LOCATIONS AS INDICATED. UNLESS OTHERWISE INDICATED, INSTALL 30 INCHES FROM FINISHED FLOOR TO INSIDE BOTTOM OF CABINET.
 - WHEN RECESSED CABINETS ARE INSTALLED IN FIRE RATED WALLS, MAINTAIN FIRE RESISTANCE RATING CONTINUOUSLY BEHIND THE CABINET.
 - INSTALL IN LOCATIONS AS INDICATED ON THE DRAWINGS.

105623 WIRE STORAGE SHELVING

- A. GENERAL: SHELVING SHALL CARRY THE APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
- B. PHOTOS: APPROVED PRODUCTS BELOW (OR EQUAL):
- ALERA WIRE SHELVING 48" X 24" X 72"
 - METRO SUPER ERECTA® (SES) 48" X 24" X 72"
- C. MATERIAL: SHELVES SHALL BE BRIGHT BASIC CARBON STEEL WIRE. POSTS SHALL BE COLD ROLLED CARBON STEEL TUBING, ELECTRIC WELDED. PLASTIC CLIPS MATERIAL SHALL BE ABS.
- D. FINISH: BRIGHT PLATED
- E. SHELVES: CONSTRUCTION SHALL BE OF OPEN WIRE DESIGN OFFERING GREATER LIGHT PENETRATION AND VISIBILITY, LIGHTER WEIGHT, AIR CIRCULATION AND MINIMAL DUST AND DIRT ACCUMULATION.
- F. FABRICATION: FACE RIBS SHALL RUN FRONT TO BACK EQUALLY SPACED ON 20.6MM CENTERS AND TO BE 3.4MM WIRE. EACH SIDE OF SHELF CONSIST OF A CORRUPTED REINFORCING TRUSS. 4.5MM WIRE ALONG THE FRONT AND BACK OF THE SHELF. THIS CORRUPTED REINFORCING SHALL BE WELDED TO 6.2MM RIB WIRE RUNNING PERPENDICULAR AND ABOVE THE FACE RIBS. A 6.2MM RIB WIRE SHALL BE WELDED TO THE BOTTOM OF THE TRUSS. AT THE ENDS OF THE TRUSS, THE CORRUPTED REINFORCING TRUSS SHALL BE WELDED TO PARALLEL 6.2MM WIRE RIBS. DEPENDING UPON THE WIDTH AND LENGTH OF THE SHELF, IT SHALL HAVE THREE OR FIVE LONGITUDINAL RIBS (6.2MM) WELDED TO THE FACE RIBS. IN ADDITION, CERTAIN LONGER LENGTHS SHALL HAVE ONE OR TWO CORRUPTED REINFORCING TRUSSES (6.2MM) WELDED TO THE UNDERSIDE. AT EACH CORNER OF THE SHELF THERE SHALL BE A TAPERED, CONICAL FITTING MADE OF 2.6MM COLD ROLLED STEEL TO THE PARALLEL RIB SUPPORTS. THE FITTING SHALL BE DESIGNED TO ACCOMMODATE THE VERTICAL SUPPORTS. THE CORRUPTED TRUSS SHALL BE IN THE SHAPE OF THE LETTER 'W'.
- G. POSTS: SHALL OF 1" O.D. ROUND STEEL TUBING, 1.5 MM THICK. THEY SHALL HAVE ROLLED GROOVES SPACED AT 1" O.C. ALONG THEIR LENGTH. THE TOP OF THE POST SHALL HAVE A FINISHED PLASTIC CAP. A DIE CAST THREADED INSERT WITH AN ADJUSTABLE LEVELING FOOT SHALL BE SHIPPED LOOSE FOR LATER INSERTION INTO THE POST BOTTOM.
- H. METHOD OF ASSEMBLY: SHALL BE OF THE FRUSTAL-CONICAL DESIGN INCORPORATING A TWO PART TAPERED PLASTIC CLIP. ENGAGEMENT AND LOCKING SHALL BE ACCOMPLISHED BY A PROTRUDING RIB ON THE INNER CIRCUMFERENCE OF THE PLASTIC CLIP WHICH WILL MATCH THE GROOVE IN THE POST. TWO PLASTIC CLIPS SHALL BE ATTACHED TO EACH SHELF. SHELVES SHALL HAVE THE IDENTICAL TAPER TO CREATE A WEDGE EFFECT, THEREBY LOCKING THE SHELF IN A RIGID POSITION. NO SCREWS OR OTHER FITTINGS SHALL BE REQUIRED TO EFFECT THIS ASSEMBLY. SHELVES SHALL BE VERTICALLY ADJUSTABLE IN 1" INCREMENTS.
- I. LOAD CAPACITY: 800 LBS. PER SHELF EVENLY DISTRIBUTED. MAXIMUM LOAD PER ASSEMBLED UNIT NOT TO EXCEED 2,000 LBS.
- J. CASTORS: SHALL BE ZINC PLATED ROUND STEM CASTER WITH POLYURETHANE TREAD AND WHEEL DIMENSIONS OF 5" X 1 1/4". WIRE SHELF CARTS ARE STANDARD WITH (2) SWIVEL AND (2) SWIVEL LOCKING CASTORS.
- K. SEISMIC ANCHORAGE: WHERE REQUIRED BY CODE AND/OR JURISDICTION HAVING GOVERNANCE, PROVIDE CROSS-BRACING AND ANCHOR PLATES FOR SUPER ERECTA® (SES) PER MANUFACTURER'S SPECIFICATIONS.

DIVISION 11 - NOT USED

DIVISION 12 - FURNISHINGS

- 0124813-ENTRANCE FLOOR MATS AND FRAMES
- A. RELATED DOCUMENTS:
- DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
- B. PRODUCTS:
- REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE PROVISIONS IN [THE U.S. ARCHITECTURAL & TRANSPORTATION BARRIERS COMPLIANCE BOARD'S ADA-ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES] AND [ICC A117.1]

DIVISION 12 - FURNISHINGS, CONT.

2. RESILIENT ENTRANCE MAT: RETAIN "MANUFACTURERS" PARAGRAPH AND LIST OF MANUFACTURERS BELOW TO REQUIRE PRODUCTS FROM MANUFACTURERS LISTED OR COMPATIBLE WITH LANDLORD SYSTEM.
3. MANUFACTURERS:
- LEGACY NOP BY MATS INC., PO BOX 839, 37 SHUMAN AVENUE, STOUGHTON, MA, 02072; TELEPHONE 800-MATS-INC (800-628-7462) OR 781-344-1536; FAX 781-344-1537; WWW.MATSINC.COM.
 - FOR VESTIBULES OR WHERE LOWER PROFILE IS REQUIRED: SUPREME NOP BY MATS INC.
 - RESSESSED FRAMES: AS SHOWN IN DRAWINGS.
- C. EXECUTION:
- EXAMINE SUBSTRATES AND CONDITIONS WHERE FLOOR MATS WILL BE INSTALLED. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORIES CONDITIONS ARE CORRECTED. SUB FLOOR SHALL BE CLEAN AND DRY, AND WITHIN ACCEPTABLE TOLERANCES.
 - INSTALLATION:
 - INSTALL RECESSED MAT FRAMES TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SET MAT TOPS AT HEIGHT RECOMMENDED BY MANUFACTURER FOR MOST EFFECTIVE CLEANING ACTION. COORDINATE TOPS OF MAT SURFACES WITH BOTTOMS OF DOORS THAT SWING ACROSS THEM TO PROVIDE CLEARANCE BETWEEN DOOR AND MAT.
 - INSTALL ACCESSORY SHIM SPACERS, AND ANCHORAGES FOR PROPER LOCATION, AND SECURE ATTACHMENT OF FRAMES.
 - INSTALL GROUT AND FILL ARCHED FRAMES AND, IF REQUIRED TO SET MAT TOPS AT PROPER ELEVATIONS, IN RECESSES UNDER MATS. FINISH GROUT AND FILL SMOOTH AND LEVEL.
 - PROTECTION:
 - AFTER COMPLETING FRAME INSTALLATION AND CONCRETE WORK, PROVIDE TEMPORARY FILLER OF PLYWOOD OR FIBERBOARD IN RECESSES AND COVER FRAMES WITH PLYWOOD PROTECTIVE FLOORING. MAINTAIN PROTECTION UNTIL CONSTRUCTION TRAFFIC HAS ENDED AND PROJECT IS NEAR SUBSTANTIAL COMPLETION.

DIVISION 13 - NOT USED

DIVISION 14 - NOT USED

DIVISION 15 - MECH, PLUMB, FIRE

- SECTION 15000 - MECHANICAL, PLUMBING & FIRE PROTECTION
- A. MECHANICAL:
- INSTALLATION AND MATERIALS OF ALL SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY, COUNTY, STATE, AND NATIONAL CODES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REQUIRED TO VISIT THE SITE, VERIFY DIMENSIONAL DATA AND REVIEW EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ANY CONFLICTS WITH THE EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
 - A COMPLETE AND OPERABLE SYSTEM SHALL BE PROVIDED. THIS IS DEFINED AS ONE WHICH HAS BEEN DESIGNED, MANUFACTURED, INSTALLED, AND PLACED IN OPERATION. BALANCE FOR AIR AND WATER, AND TESTED FOR CONFORMANCE TO THE CAPACITIES CORRESPONDING TO THE DESIGN CRITERIA.
 - THE SYSTEM SHALL BE INSTALLED AND ADJUSTED IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS, TESTED FOR SEQUENCE OF CONTROL INCLUDING FAIL SAFE AND LIFE SAFETY CONSIDERATIONS AND AVAILABLE IN A CLEAN CONDITION.
 - COORDINATE LOCATIONS OF ALL VISIBLE DEVICES WITH THE LIGHTING PLAN.
- B. DESIGN CRITERIA - HVAC SYSTEM
- MAINTAIN AN AVERAGE TEMPERATURE OF 68 TO 70 DEGREES DURING THE WINTER. 75 TO 77 DEGREES DURING THE SUMMER.
 - INTERIOR ZONES SHALL BE DESIGNED TO SERVE 1,800 SQUARE FEET EACH. EXTERIOR ZONES SHALL BE DESIGNED TO SERVE 700 SQUARE FEET EACH.
 - EXHAUST ALL BATHROOMS TO THE OUTSIDE AT A RATE OF 2 CFM PER SQ. FT.
- C. DESIGN CRITERIA - PLUMBING SYSTEM
- PROVIDE COMPLETE PLUMBING SYSTEMS NECESSARY TO OPERATE THE DEVICES SHOWN IN THESE DOCUMENTS.
- D. DESIGN CRITERIA - FIRE PROTECTION SYSTEM
- PROVIDE THE NECESSARY FIRE SPRINKLER SYSTEMS AND FIRE ALARM SYSTEMS TO GIVE COMPLETE PROTECTION AS REQUIRED BY CODE.
 - MEP / SPRINKLER NOTES
 - ALL FIRE SPRINKLER WORK SHALL BE PERFORMED BY A BASE BUILDING APPROVED CONTRACTOR. SPRINKLER HEADS IN GYPSUM BOARD AND MALL FRONTS SHALL BE COLOCATED. SPRINKLER HEADS SHALL BE RECESSED OR CONCEALED TYPE MAY BE USED IN LAY-IN CEILINGS VISIBLE TO CUSTOMERS. SURFACE MOUNTED HEADS ARE ACCEPTABLE IN THE BACK AREA.
 - FIRE SPRINKLER DESIGN SHALL BE PERFORMED BY A STATE LICENSED DESIGNER.
 - PAINT ALL DIFFUSERS AND GRILLS TO MATCH ADJACENT SURFACES.
 - BATTERY PACKS FOR EMERGENCY LIGHTS SHALL BE REMOTE OR RECESSED.
 - IF CEILING ACCESS PANELS ARE REQUIRED, PAINT TO MATCH ADJACENT SURFACE.
 - ALL TRACK LIGHTS MOUNTED ON PI FISH SHALL BE WHITE.
 - VERIFY LOCATIONS OF DEMISING WALLS, CLEAR HEIGHTS, COLUMNS, MALL FRONTS AND ANY OTHER SIGNIFICANT COMPONENTS WITH THOSE INDICATED ON THE PLAN.
 - NOTIFY THE ARCHITECT OF ANY DIFFERENCES.
 - CEILING SPRINKLER HEADS: SHALL BE AS INDICATED TO REPRESENT AN "IF POSSIBLE" SCENARIO. IF THE EXISTING CEILING, MAJOR DUCTWORK OR OTHER OBSTRUCTIONS PROHIBIT THE REFERENCED HEIGHTS, PROVIDE AS MUCH HEIGHT AS POSSIBLE, MAINTAINING A 6" DIFFERENCE FROM THE GYPSUM BOARD SURROUND TO THE LAY-IN CEILING. NOTIFY THE ARCHITECT OF THE DIFFERENCES PRIOR TO INSTALLATION.

DIV

COPYRIGHT NOTICE:
THESE DRAWINGS AND DOCUMENTS ARE CONFIDENTIAL AND SUBJECT TO OWNERSHIP BY THE CONTRACTOR AS AN INTELLECTUAL PROPERTY. THEY ARE NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE THAN THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN UNDER SUCH PROTECTION. UNAUTHORIZED USE OF THESE DRAWINGS AND DOCUMENTS IS A VIOLATION OF THE LAW OF CONSTRUCTION, BUILDING SEIZURE, AND/OR MONETARY LIABILITY.

ARCHITECT:

FUZION

9096 EAST BAHIA DRIVE
SUITE 103
SCOTTSDALE, AZ 85260
design@fuzionad.com

www.fuzionad.com

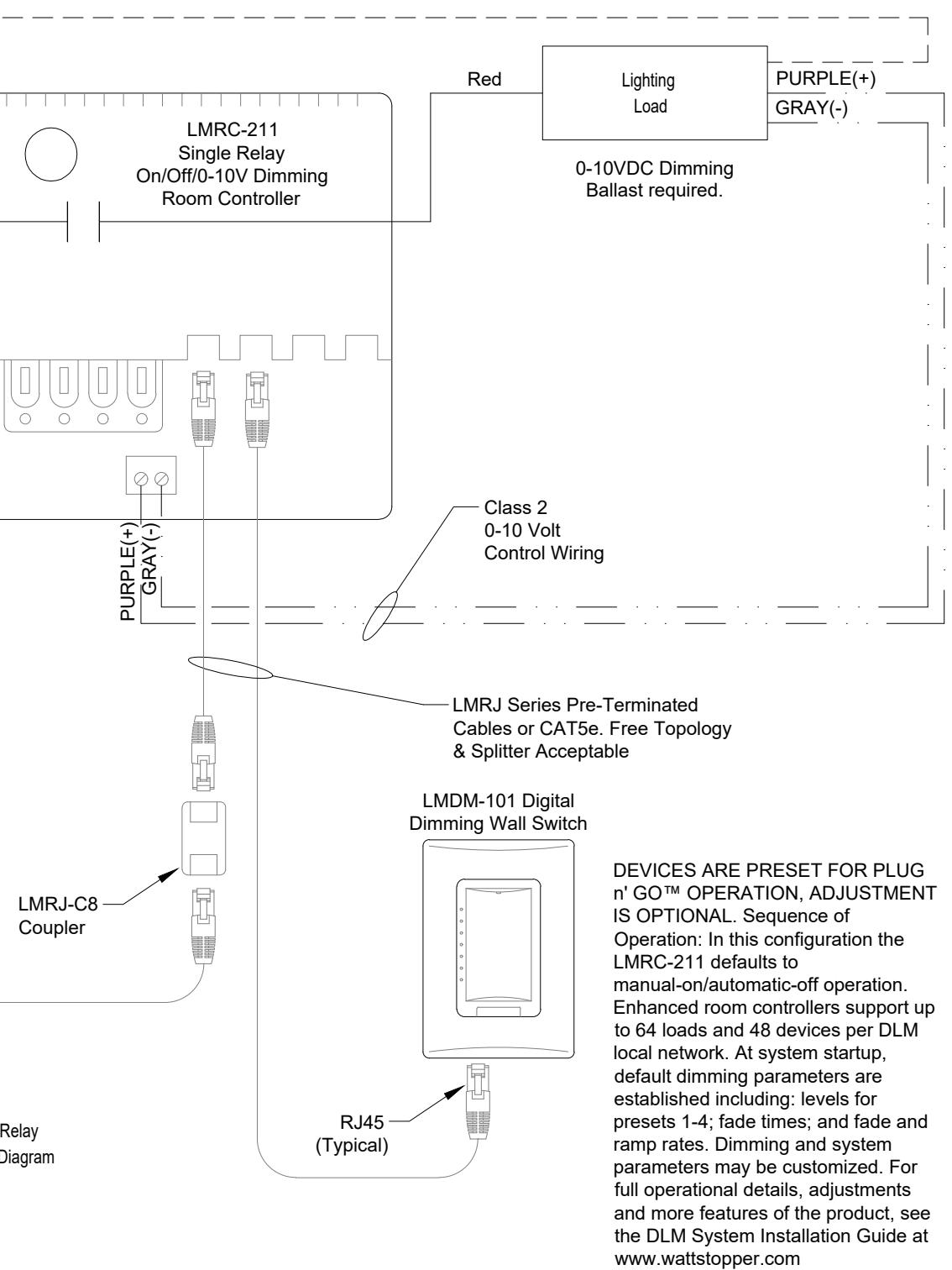


4/17/2024

CONSULTING ENGINEER:

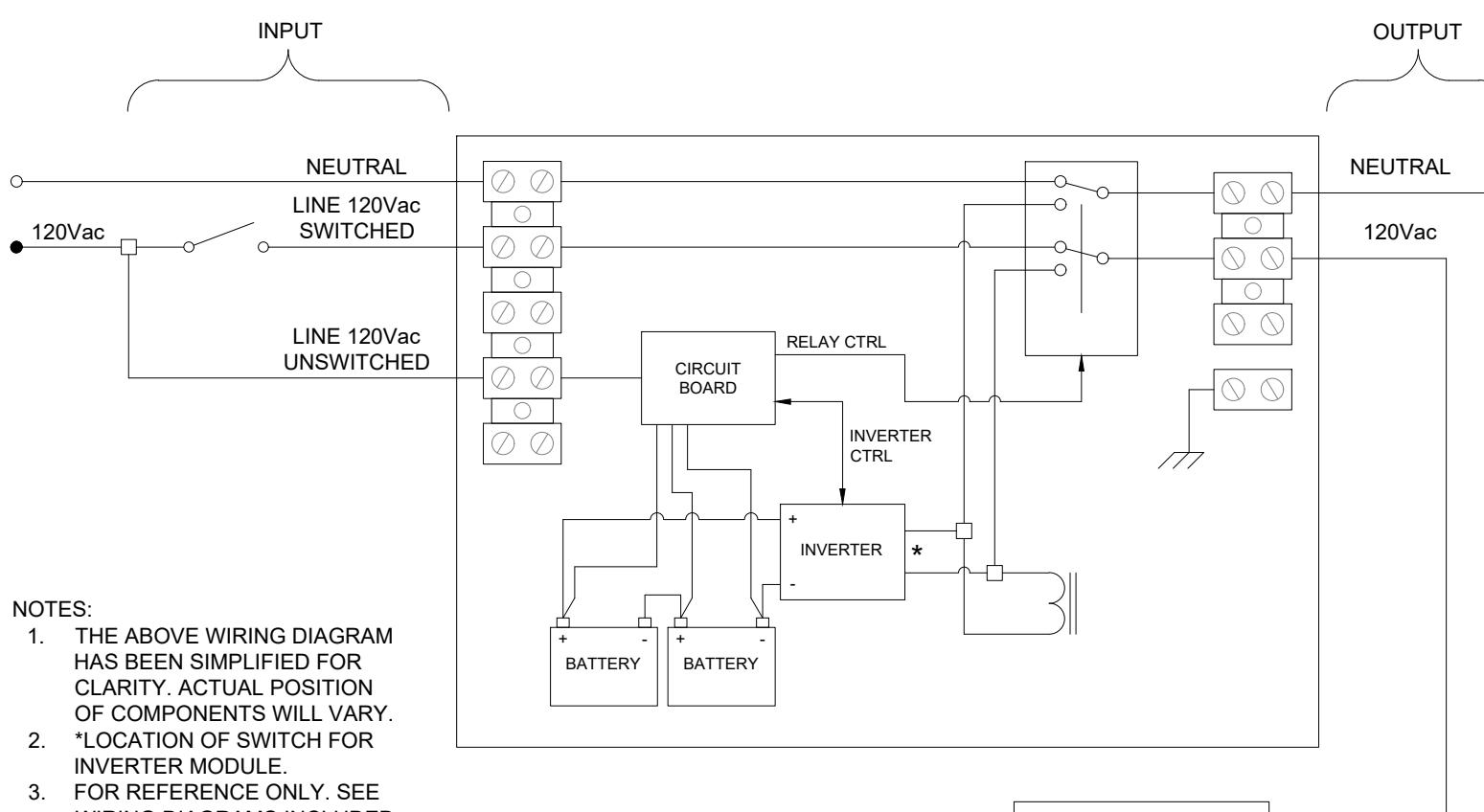
Eric M. Aielli, PE
435 Schenck Ave
Oakwood, OH 45409
937.486.4233
eric@phase3eng.com

TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714



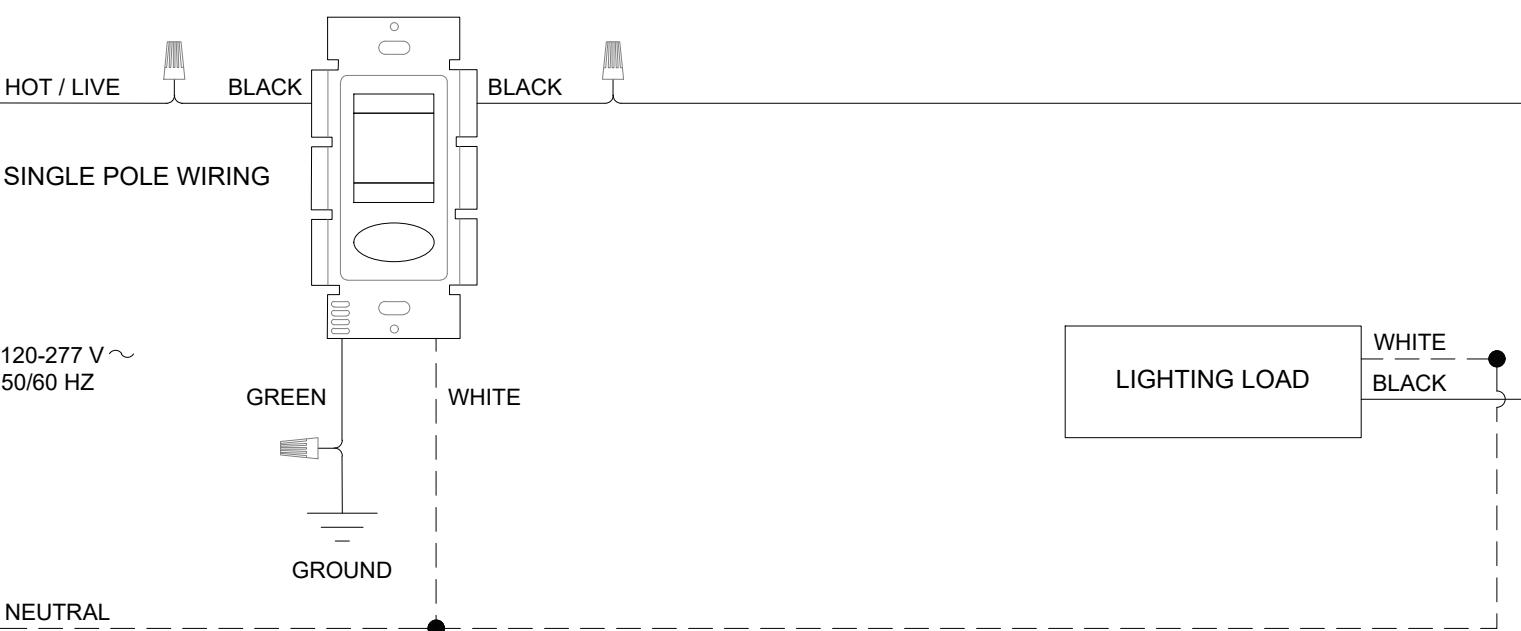
B4 LMRC-211 ROOM CONTROLLER, 0-10V DIMMING (BOH)
NTS

LIGHTING CONTROL SCHEDULE				
CALLOUT	SYMBOL	DESCRIPTION	MODEL	NOTES
DLC	[square]	ENTOUCH DIMMING & LOAD CONTROLLER	DLC	
D2 BOH	[D2]	LEGRAND WATTSTOPPER WALL MOUNTED DIMMING WALL SWITCH	LMDM-101-W	0-10V DIMMING Cat 5e CABLES W/ RJ45 CONNECTRS
OS	[OS]	LEGRAND WATTSTOPPER CEILING MNTD OCCUPANCY SENSOR	LMDC-100	Cat 5e CABLES W/ RJ45 CONNECTRS
RC	[RC]	LEGRAND WATTSTOPPER ON/OFF/0-10V DIMMING ROOM CONTROLLER	LMRC-211	0-10V DIMMING 120V
D3 INVENTORY	[D3]	LUTRON MAESTRO DIMMER SENSOR	MS-Z101-WH	0-10V DIMMING 8A
OS	[OS]	SENSOR SWITCH WALL MNTD OCCUPANCY SENSOR	WSD-PDT-WH	800W

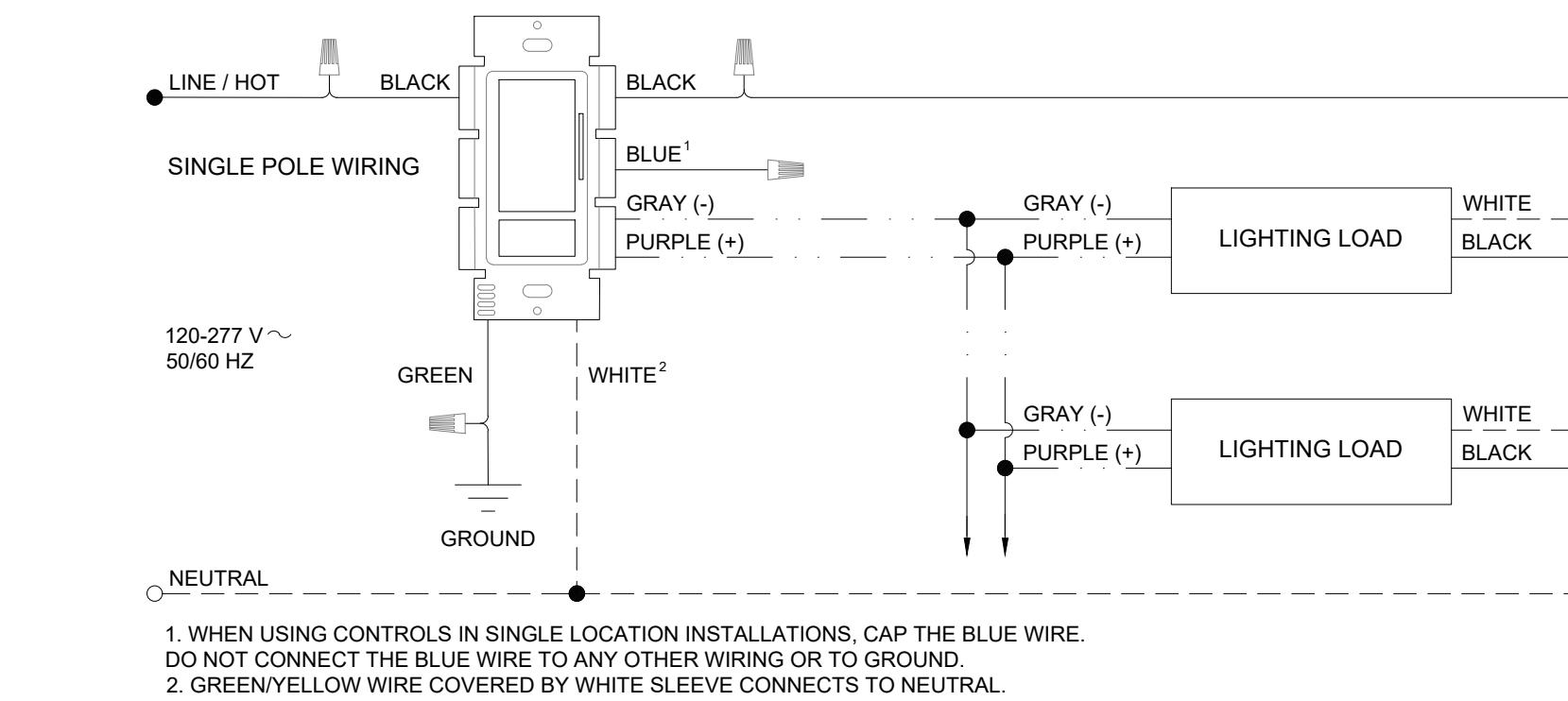


A4 SALES - MINI INVERTER WIRING DIAGRAM
NTS

LED EMERGENCY LIGHTING MINI INVERTER SCHEDULE - SALES		
DESCRIPTION	MODEL	NOTES
250W INVERTER	EMERGI-LITE EMU-250	90 MIN. BATTERY BACKUP



C3 OS - SENSOR SWITCH WSD-PDT WIRING DIAGRAM
NTS



C2 D3 - LUTRON MS-Z101 WIRING DIAGRAM (BOH)
NTS

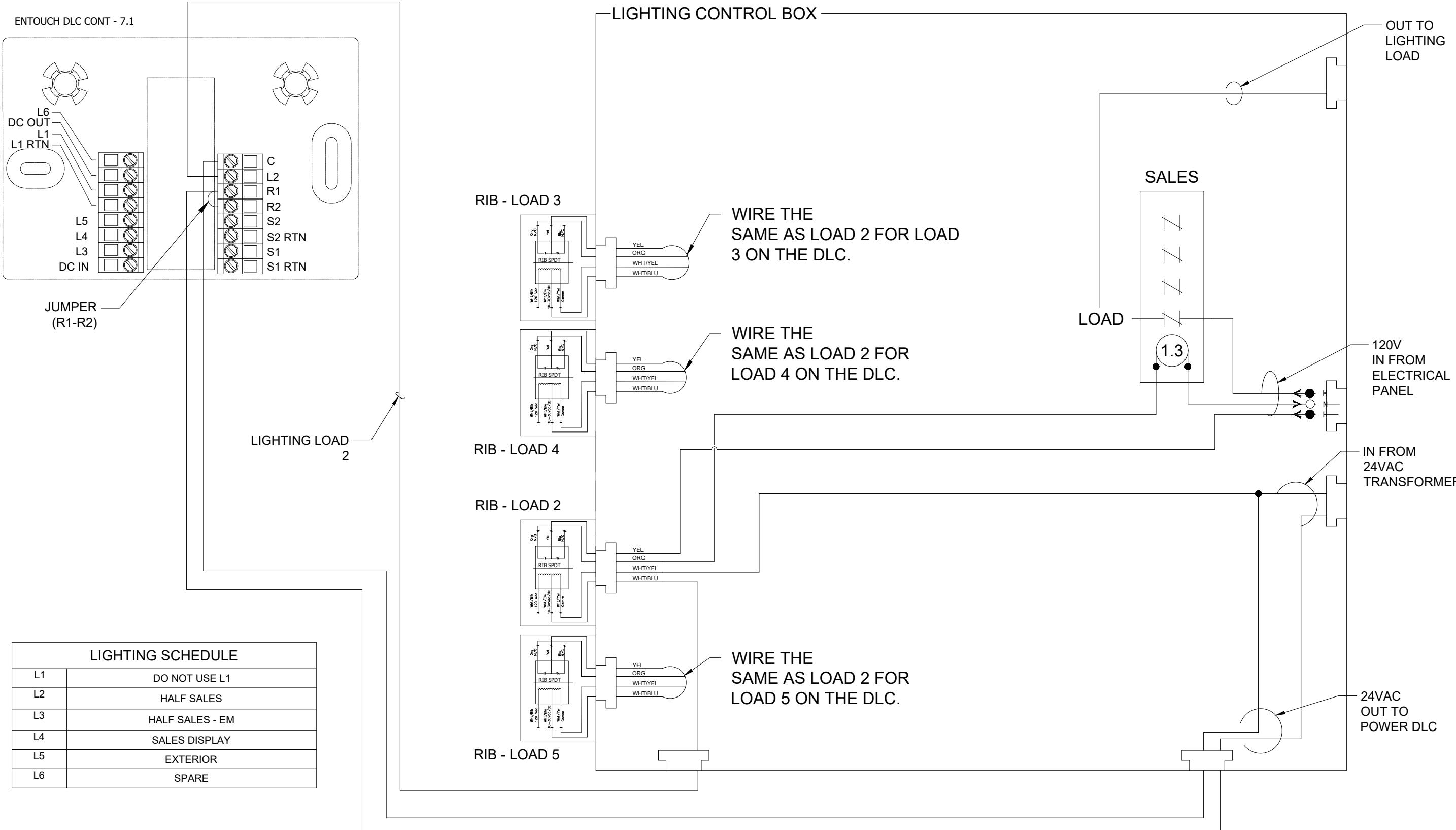


4/17/2024

CONSULTING ENGINEER:

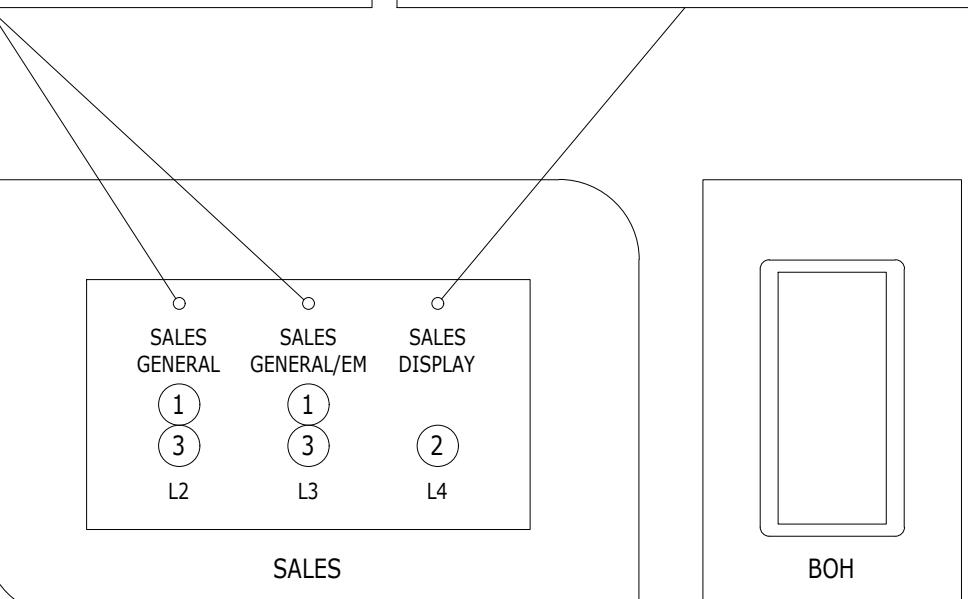
Eric M. Aielli, PE
435 Schenck Ave
Oakwood, OH 45409
937 486 4233
eric@phase3eng.com

TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714



A3 LIGHTING CONTROL SCHEMATIC
NTS

- GENERAL LTS**
1. SWITCH ENABLES AUTOMATIC CONTROL OF ALL GENERAL LIGHTING DURING STORE HOURS.
 2. LIGHTS SHALL BLINK 5 MINUTES PRIOR TO AUTOMATICALLY TURNING OFF. PRESS ON/OFF TO PROVIDE OVERRIDE OF LIGHTS.
 3. ALARM CONDITION FROM ADT SECURITY SYSTEM TURNS ON ALL GENERAL LIGHTING. LIGHTS WILL REMAIN ON UNTIL MANUALLY TURNED OFF.
- ACCENT LTS**
1. SWITCH ENABLES AUTOMATIC CONTROL OF ALL ACCENT LIGHTING DURING STORE HOURS.
 2. PRESS ON/OFF TO PROVIDE OVERRIDE OF LIGHTS.



A2 SWITCHBANK DETAIL
NTS

#	DESCRIPTION	DATE

DATE: 04.02.2024
SCALE: AS NOTED
DRAWN BY: CNM

SAP NUMBER:

193

CORPORATE TENANT REMODEL
RMC

SHEET TITLE:

ENTOUCH LIGHTING CONTROLS

SHEET NUMBER:

E114

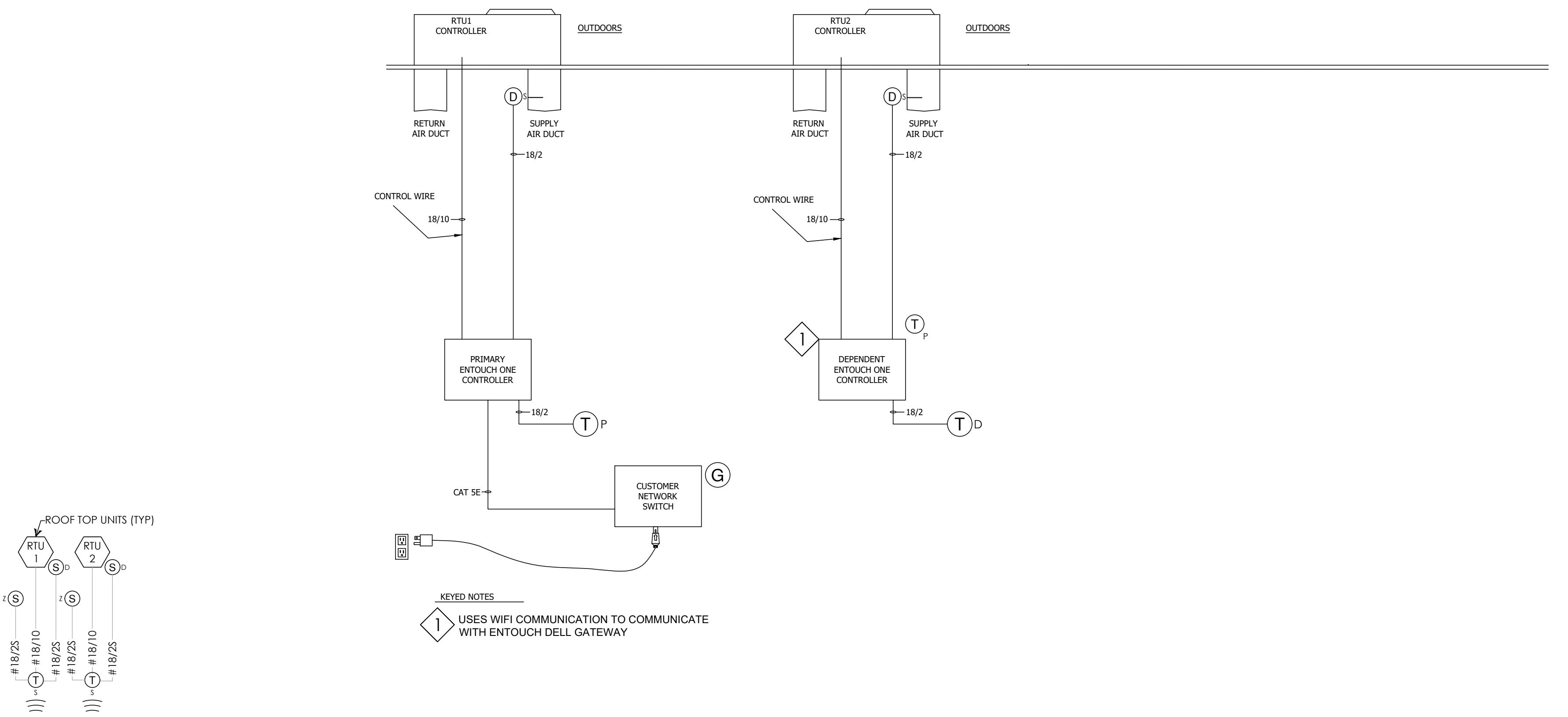
T Mobile

20 SE 38th STREET
LEVUE, WA 98006
www.t-mobile.com

BAHIA DRIVE
ALE, AZ 85260 design@fuzionad.com
 (480) 463 - 4764
 www.fuzionad.com

DRIVE design@fuzionad.com
85260 (480) 463 - 4764
www.fuzionad.com

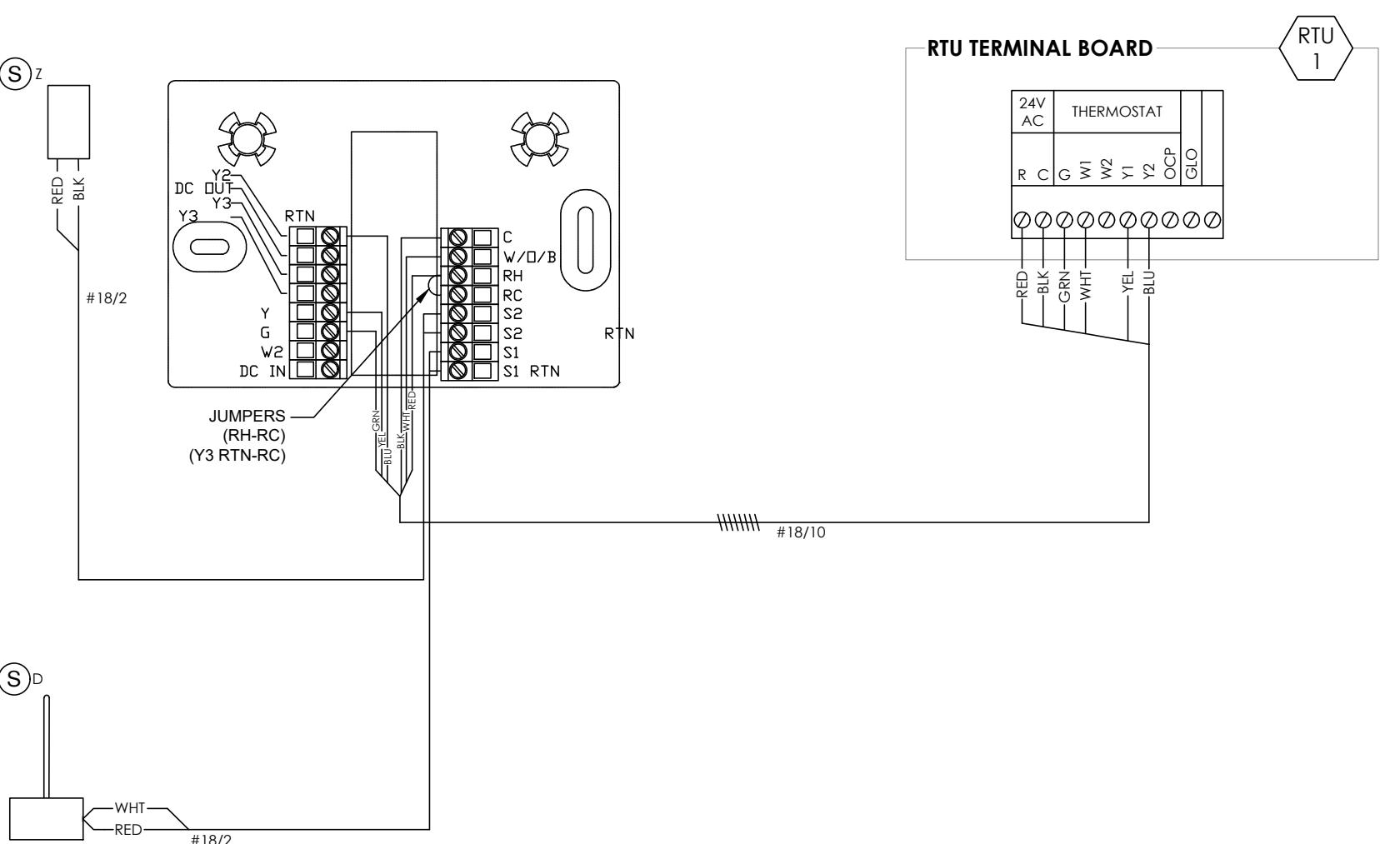
EMS SINGLE LINE DIAGRAM



B4 EMS DIAGRAM NTS

MECHANICAL CONTROLS SYSTEM ARCHITECTURE

B2 LEGEND/RISER DIAGRAM
NTS



RTU WIRING DIAGRAM

NTS

G:\~Projects\0400-0499\0445 - T-Mobile RMC Remodel - Fuzion\0445.04 - 193 TOUHY AVE_CENTRAL AVE IL

~Projects\04
4/17/2024

TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714

193

CORPORATE TENANT REMODEL

RMC

[View Details](#)

ENTOUCH EMS DRIVING DIAGRAMS

ER:

=117



4/17/2024

TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
NILES, IL 60714EMS SCOPE AND RESPONSIBILITIESEMS INSTALLER RESPONSIBILITIES

1. THE FOLLOWING ARE RESPONSIBILITIES OF THE G.C. AND EMS INSTALLER DURING THE INSTALLATION PHASE.
 - a. G.C. WILL INSTALL ENTOUCH THERMOSTATS AS PART OF STANDARD SCOPE OF WORK.
 - b. G.C. WILL PULL 18 GAUGE 10-CONDUCTOR STANDARD THERMOSTAT WIRE FROM HVAC UNIT TO WALL WHERE EACH ENTOUCH ONE THERMOSTAT WILL BE MOUNTED. PULL 2-CONDUCTOR 18 GAUGE WISTED/SHEILED WIRE FROM HVAC SUPPLY AIR DUCT LOCATION TO WHERE ENTOUCH ONE THERMOSTAT WILL BE MOUNTED TO WALL.
 - c. G.C. WILL PULL 2-CONDUCTOR 18 GAUGE TWISTED/SHEILED WIRE FROM SPACE WHERE REMOTE SENSOR IS LOCATED (IF APPLICABLE) TO WALL WHERE ENTOUCH ONE THERMOSTAT WILL BE MOUNTED.
 - d. IF HVAC EQUIPMENT IS HEAT PUMP OR CONVENTIONAL, G.C. WILL PROGRAM THE OUTPUTS THROUGH THE TOUCH SCREEN WITH THE INSTALL WIZARD ON ENTOUCH THERMOSTATS.
 - e. EMS INSTALLER WILL INSTALL ENERGY MONITORING EQUIPMENT.
 - f. EMS INSTALLER SHALL MOUNT EITHER ENTOUCH IBR DURING INSTALLATION TO CONFIRM CONNECTION TO ENTOUCH SERVERS.
 - g. EMS INSTALLER SHALL INSURE THAT SITE IS ON-LINE THROUGH THE CRADLEPOINT CELLULAR ROUTER AND PERFORM ALL FINAL COMMISSIONING VIA THE INSTALLATION APP. INCLUDING SCHEDULING AND PROGRAMMING FUNCTIONS. INSTALLER MUST CONTACT COMMISSIONING LINE (PH: 469-291-9772) TO PERFORM COMMISSIONING DUTIES.
 - h. EMS INSTALLER SHALL TEST, CALIBRATE, AND COMMISSION ALL HVAC SEQUENCES FOR OPERATION (SITE ENVIRONMENT PERMITTING).

SEQUENCE OF OPERATIONS FOR HVAC OPERATIONCALL FOR COOL WHEN OCCUPIED AND UNOCCUPIED

THERMOSTAT ENGAGES Y1 (STAGE1 COMPRESSOR) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE ABOVE THE SET POINT. THE FIRST STAGE OF COOLING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG BELOW THE COOL SET POINT. THE SECOND STAGE OF COOLING (Y2) WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG ABOVE THE COOLING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE COOLING SET POINT.

CALL FOR HEAT WHEN OCCUPIED AND UNOCCUPIED

THERMOSTAT ENGAGES W1 (STAGE1 HEATING) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE BELOW THE SET POINT. THE FIRST STAGE OF HEATING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG ABOVE THE HEAT SET POINT. THE SECOND STAGE OF HEATING WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG BELOW THE HEATING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE HEATING SET POINT.

NO CALLS FOR HEAT OR COOL

WHEN NO CALL FROM THE THERMOSTAT THE HVAC SYSTEM WILL REMAIN IDLE. THE FAN FOR THE HVAC UNIT WILL REMAIN OFF.

ENTOUCH CONTACT
FOR ACCOUNT QUESTIONS CONTACT:
EMAIL: Account_Manager@entouchcontrols.com

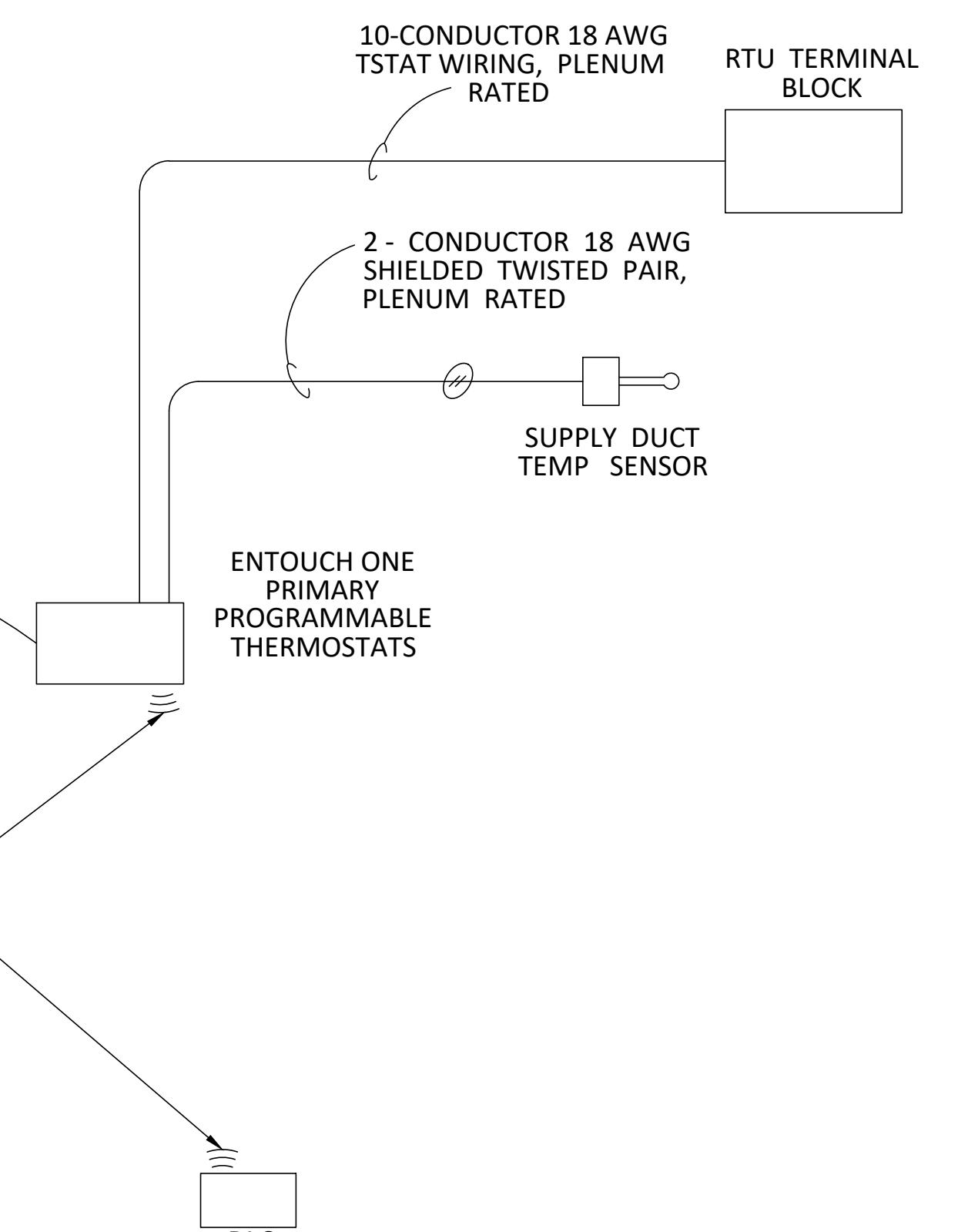
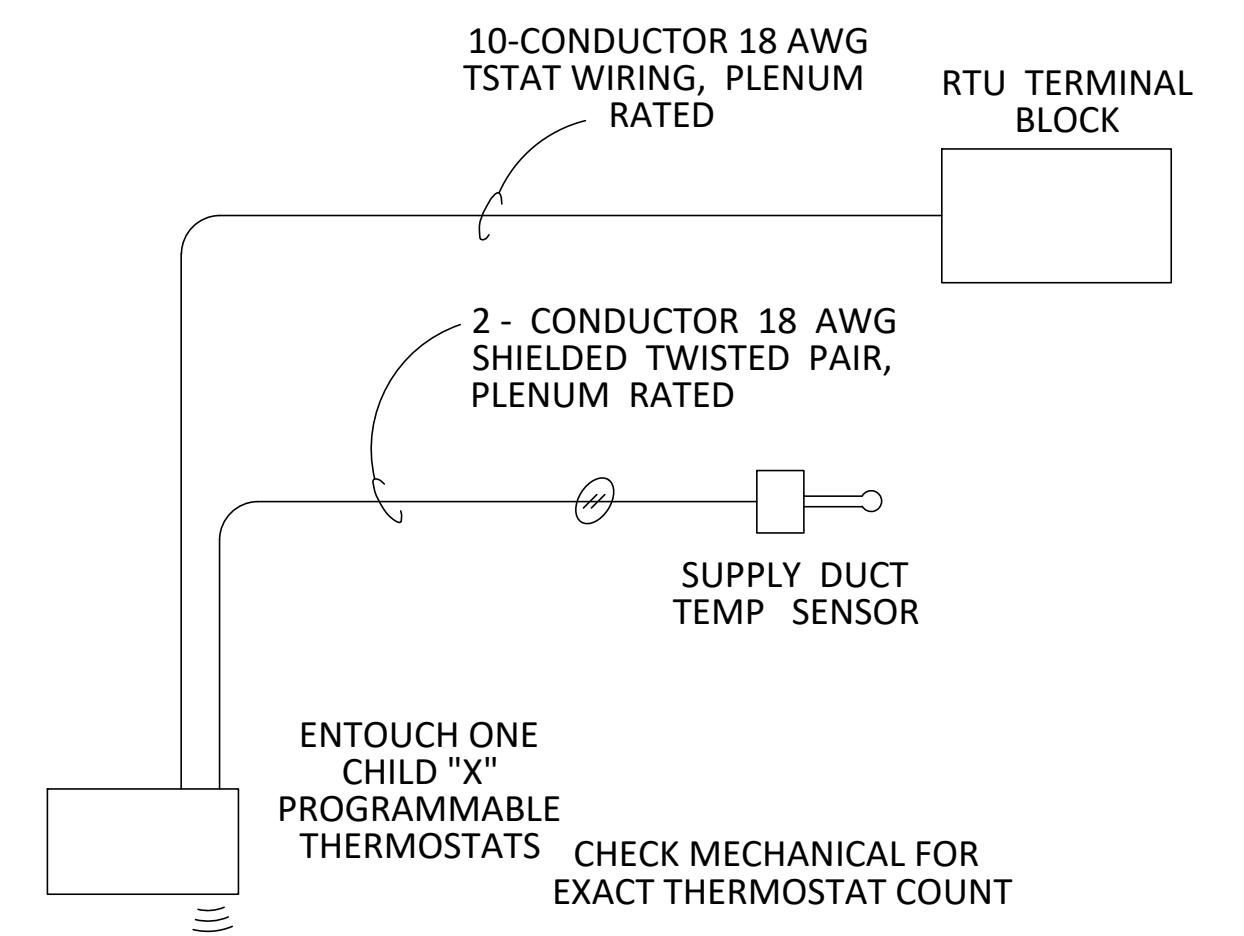
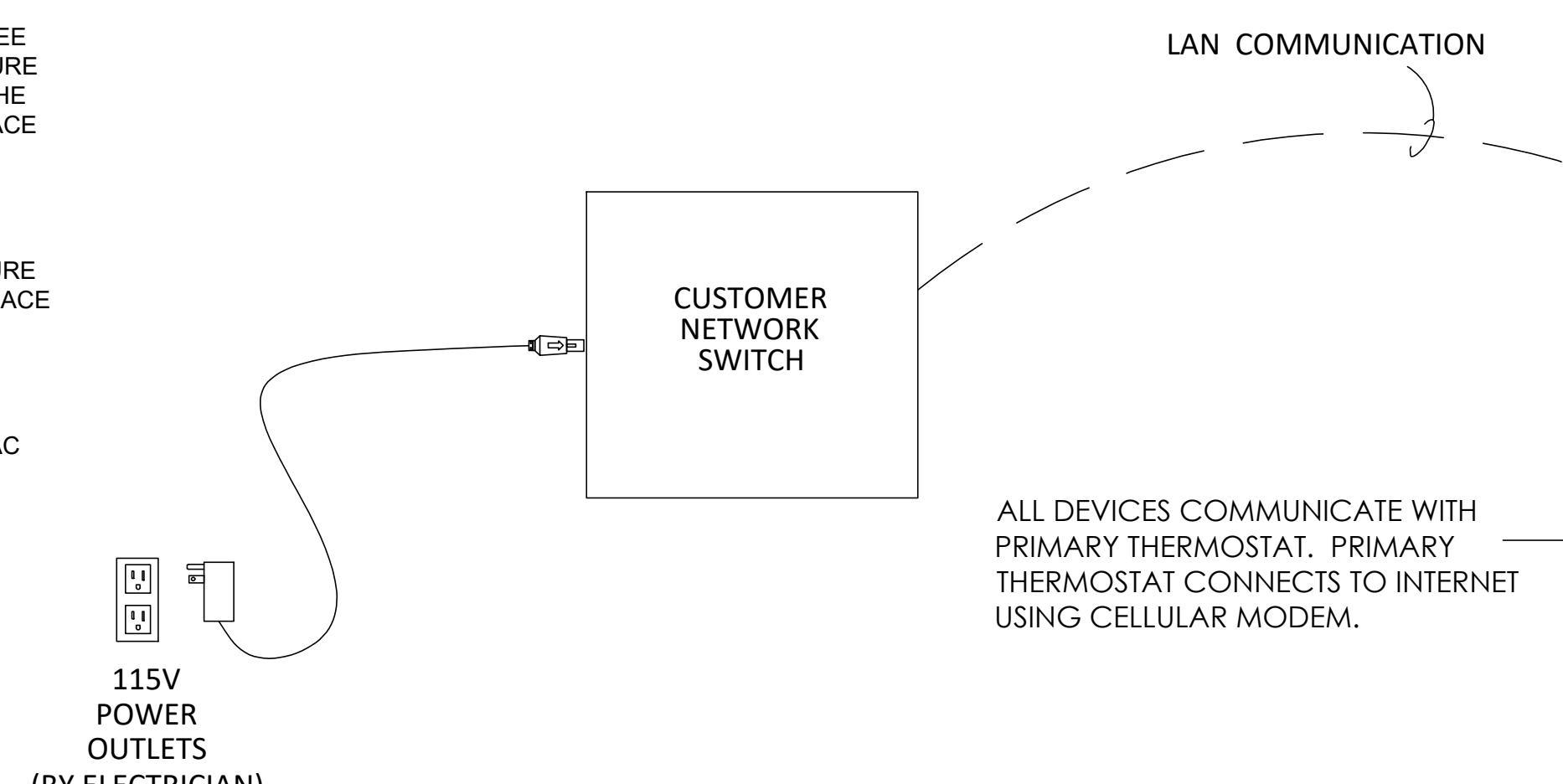
ENERGY MANAGEMENT SYSTEM NOTES

1. HVAC SYSTEMS SHALL BE CONTROLLED AND MONITORED BY A LOCAL ENERGY MANAGEMENT SYSTEM UTILIZING ENTOUCH COMMUNICATING THERMOSTATS, CONTROLLERS, AND COMPONENTS AS DESCRIBED BELOW. THE SYSTEM SHALL INCLUDE COMMUNICATIONS INTERFACE WHICH WILL CONNECT THE LOCAL BUILDING AUTOMATION SYSTEM TO THE ENTOUCH ENTERPRISE PORTAL.
- 2 IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK OF THIS PROJECT WITH WORK TO BE PROVIDED BY EMS INSTALLER IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ENERGY MANAGEMENT SYSTEM. THE NOTES AND THE BAS SYSTEM SCHEMATIC ON THIS SHEET ARE INTENDED TO CLARIFY THE CONTRACTOR'S RESPONSIBILITIES.
- 3 CERTAIN WORK IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR DURING THE CONSTRUCTION PHASE. SEE ELECTRICAL PLAN.
4. THE FOLLOWING MATERIALS WILL BE PROVIDED BY SUBCONTRACTOR:
 - ENTOUCH ONE MULTI-STAGE PROGRAMMABLE THERMOSTATS WITH WIRELESS COMMUNICATIONS
 - DUCT TEMPERATURE SENSORS FOR RTU SUPPLY AIR TEMPERATURE
 - REMOTE ROOM TEMPERATURE SENSORS IF APPLICABLE (SEE M PLAN)

CABLE SCHEDULE

CABLE	SIZE	TYPE	MFG./MODEL
18/2	18AWG/2-CONDUCTOR	SHEILED, STRANDED, PLUMIN	BELDEN/6300FE NON-PAIRED COMTRAN/3644
18/10	18AWG/10-CONDUCTOR	UNSHEILED, STRANDED, PLUMIN	TAPPAN/1880AB2M-CMP BELDEN/6300UE NON-PAIRED
CAT5e	24AWG SOLID COPPER	SHEILED, TIA 568-C.2, PLUMIN	TAPPAN BELDEN

(SUPPLIED BY CONTRACTORS IF APPLICABLE)



#	DESCRIPTION	DATE

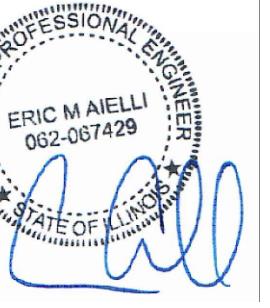
DATE: 04.02.2024
SCALE: AS NOTED
DRAWN BY: CNM
SAP NUMBER: 193

193
CORPORATE TENANT REMODEL
RMC

SHEET TITLE: EMS SCOPE AND RESPONSIBILITIES

SHEET NUMBER: E118

A3
EMS SCHEMATIC
NTS



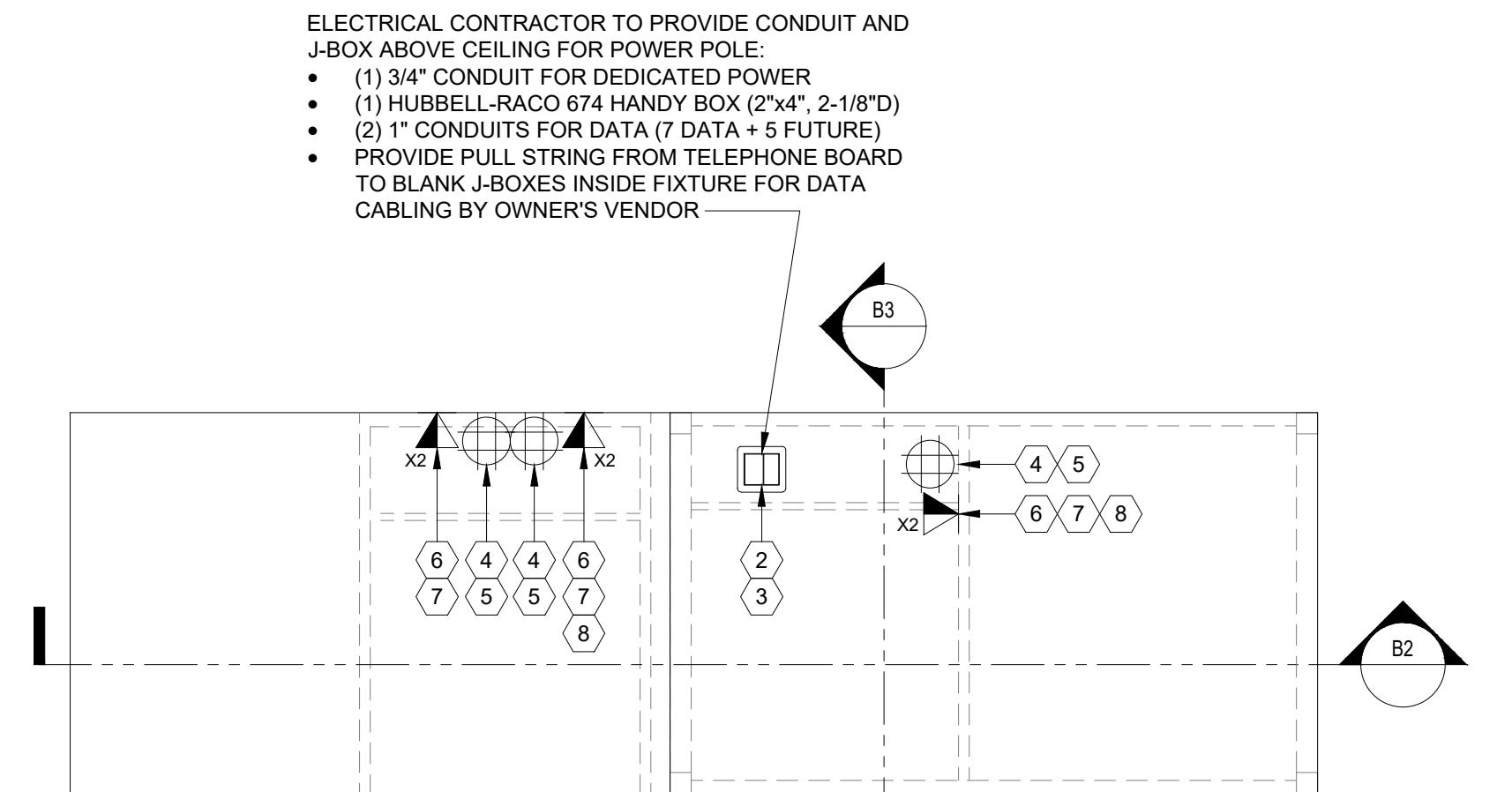
4/17/2024

FF405 + FF404 KEY NOTES	
#	NOTES
1	Fixture anchored to floor, typ.
2	POWER POLE: STD CAP - POWER DEEP CAP - DATA
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND J-BOXES ABOVE CEILING FOR POWER POLE.
4	ELECTRICAL CONTRACTOR TO INSTALL POWER RECEPTACLES IN BLANK QUADPLEX J-BOXES INSIDE FIXTURE. PROVIDE POWER CIRCUIT FROM PANEL TO RECEPTACLES AND PROVIDE APPROVED FLEX CONNECTION ASSEMBLY TO POWER SOURCE AFTER FIXTURE INSTALLATION.
5	DEDICATED POWER.
6	ELECTRICAL CONTRACTOR TO PROVIDE PULL STRING FROM TELEPHONE BOARD TO BLANK J-BOXES INSIDE FIXTURE FOR CAT5E DATA CABLING AND RJ45 JACKS BY OWNER'S VENDOR.
7	OWNER'S VENDOR TO PROVIDE CAT5E DATA CABLING, RJ45 JACKS AND PLASTIC GROMMET TO FIT 3/4" KNOCK OUTS IN BLANK DUPLEX J-BOXES INSIDE FIXTURE AS REQD. ROUTE CABLING THROUGH CASEWORK AND MAKE CONNECTIONS TO RJ45 JACKS, TYP.
8	FUTURE DATA.
9	PASS THRU FOR CONDUCTOR/DATA FEEDS.

GENERAL NOTES

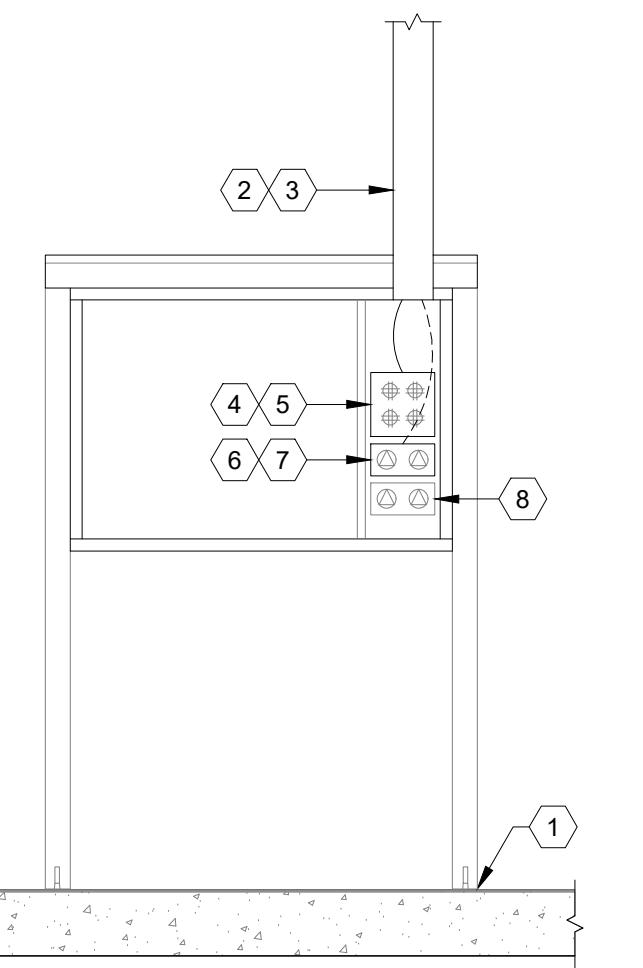
A	BLANK DUPLEX AND QUADPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.
B	POWER POLE IS PROVIDED BY T-MOBILE.
C	J-BOXES ABOVE CEILING FOR POWER POLE CONNECTIONS ARE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

CONSULTING ENGINEER:

Eric M. Aielli, PE
435 Schenck Ave
Oakwood, OH 45409
937 486 4233
eric@phase3eng.comTOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714

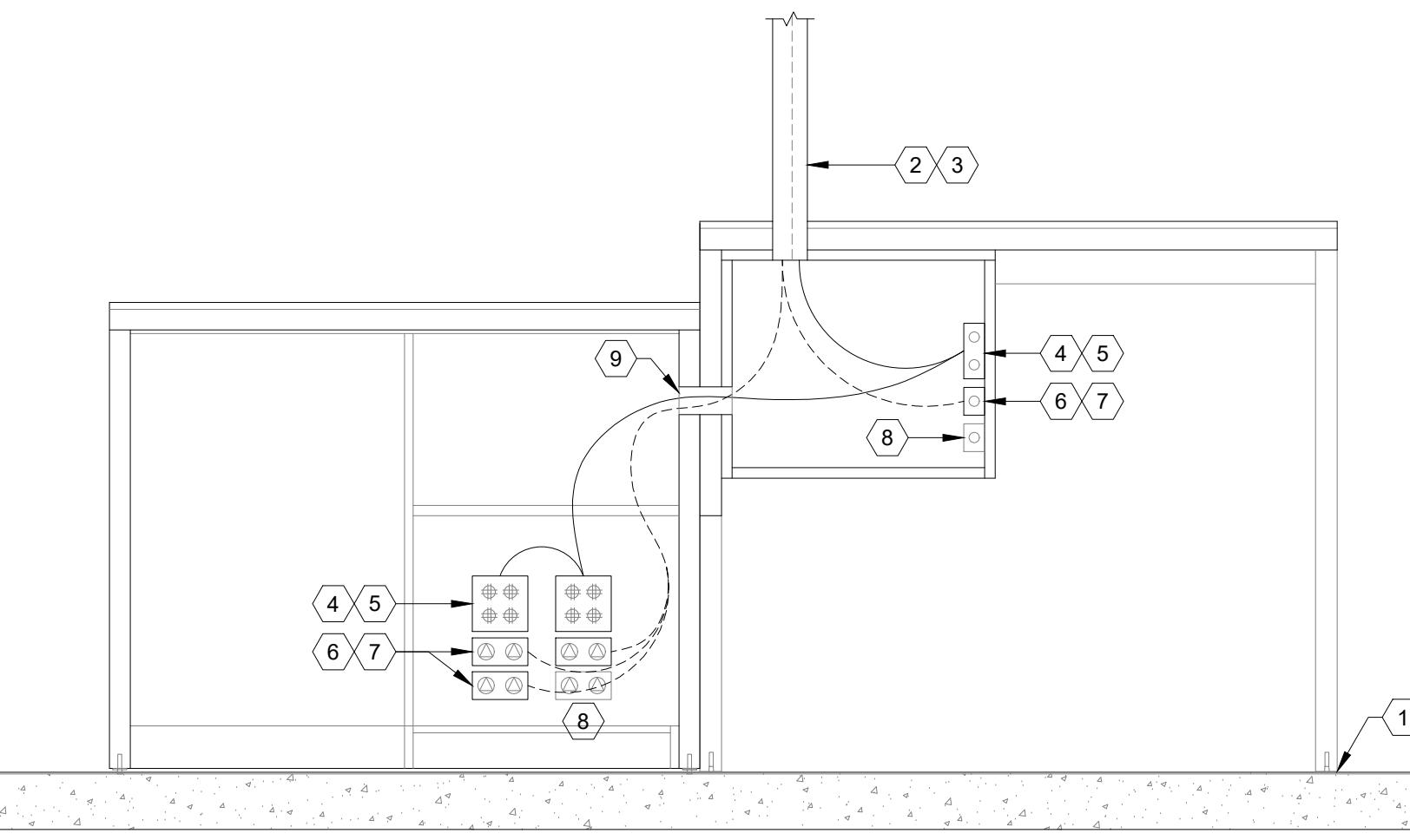
B4 FF405 + FF404 (ADA) - PLAN VIEW

1" = 1'-0"



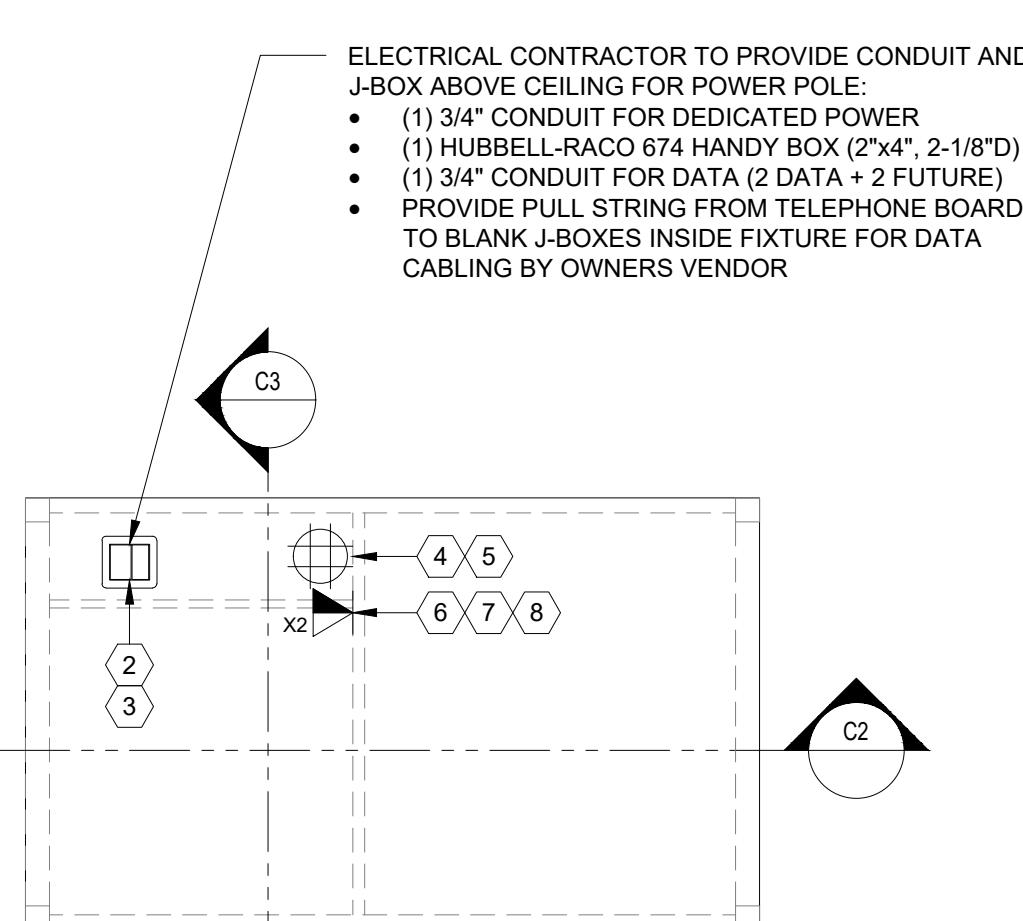
B3 FF405 TYP SECTION VIEW

1" = 1'-0"



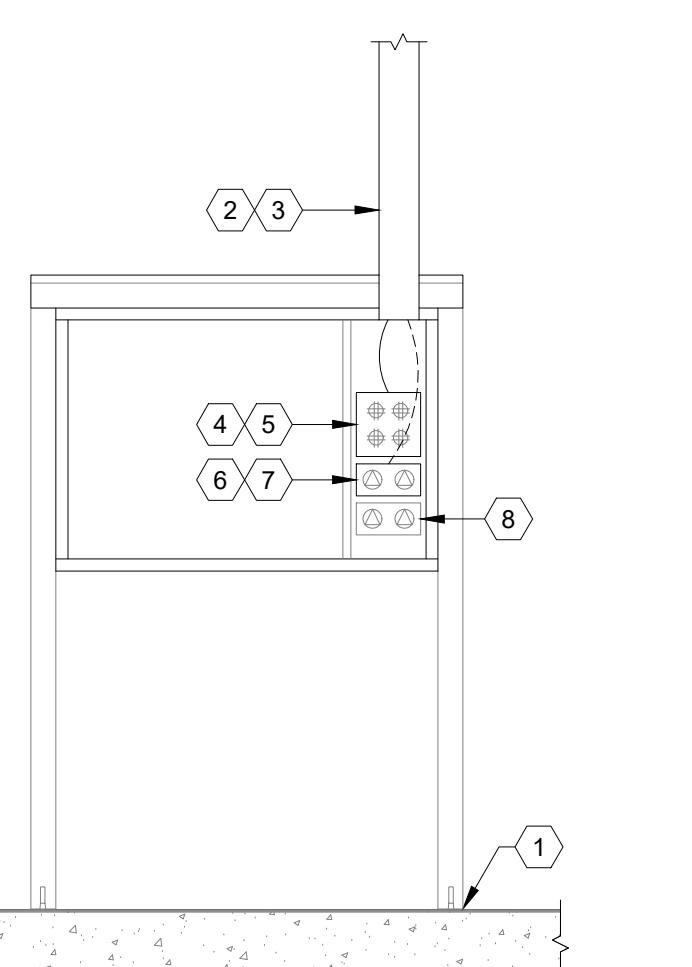
B2 FF405 + FF404 (ADA) - SECTION VIEW

1" = 1'-0"



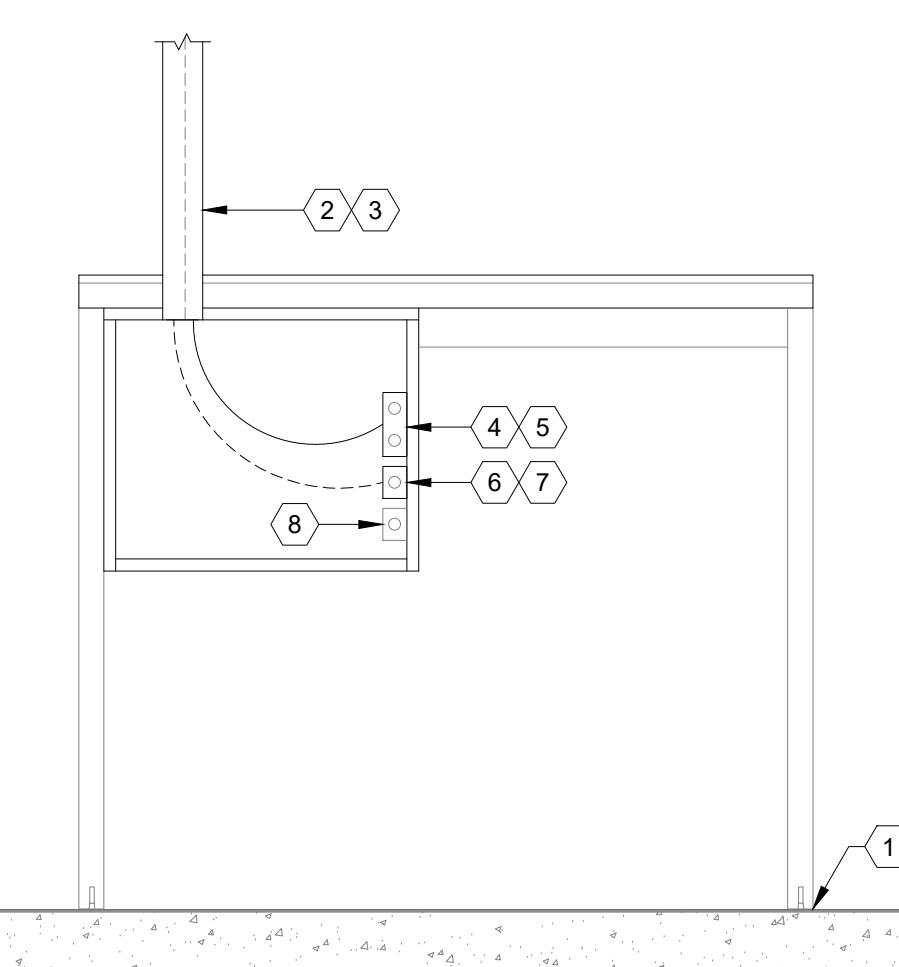
A4 FF405 - PLAN VIEW

1" = 1'-0"



A3 FF405 TYP SECTION VIEW

1" = 1'-0"



A2 FF405 - SECTION VIEW

1" = 1'-0"

#	DESCRIPTION	DATE
DATE:	04.02.2024	
SCALE:	AS NOTED	
DRAWN BY:	CNM	

193

CORPORATE TENANT REMODEL
RMC

SHEET TITLE: FIXTURE FEED WIRING DETAILS

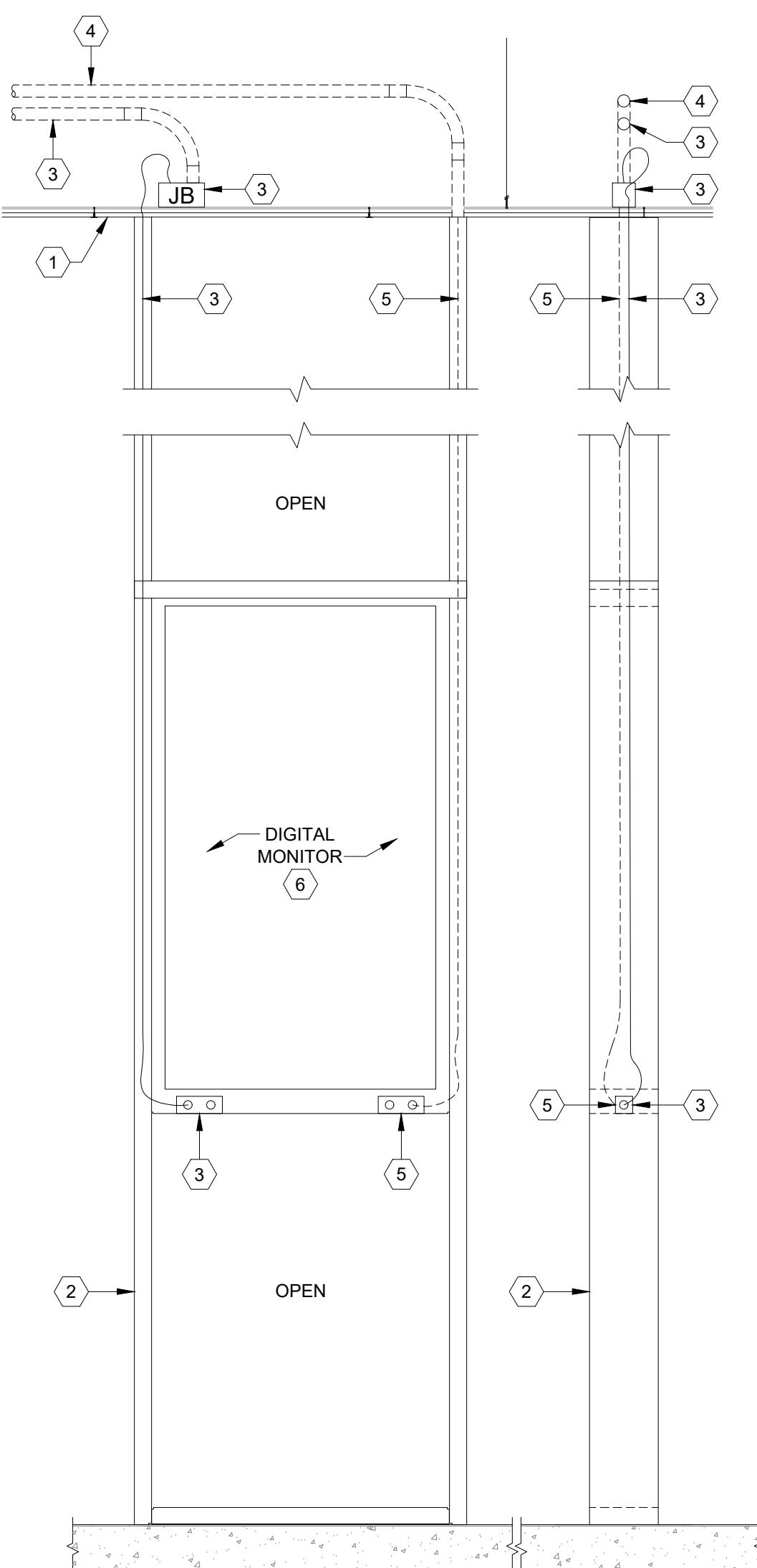
SHEET NUMBER: E501



4/17/2024

- ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT ABOVE CEILING TO J-BOX(S).
- (1) 3/4" CONDUIT ABOVE CEILING FOR POWER
- (1) 3/4" CONDUIT ABOVE CEILING FOR DATA
- PROVIDE PULL STRING FROM PANEL FOR FUTURE DATA CABLING BY OWNER'S VENDOR
- (1) HUBBELL-RACO 674 HANDY BOX (4"x2", DEPTH: 2-1/8") W/ COVER PLATES FOR POWER.
NOTE: PROVIDE ADDITIONAL CEILING MOUNTED J-BOX FOR DATA IF REQUIRED BY LOCAL JURISDICTION.

C4 FF310 (DIGITAL FRONT WINDOW)
1" = 1'-0"



A4 FF310 (DIGITAL FRONT WINDOW)
1" = 1'-0"

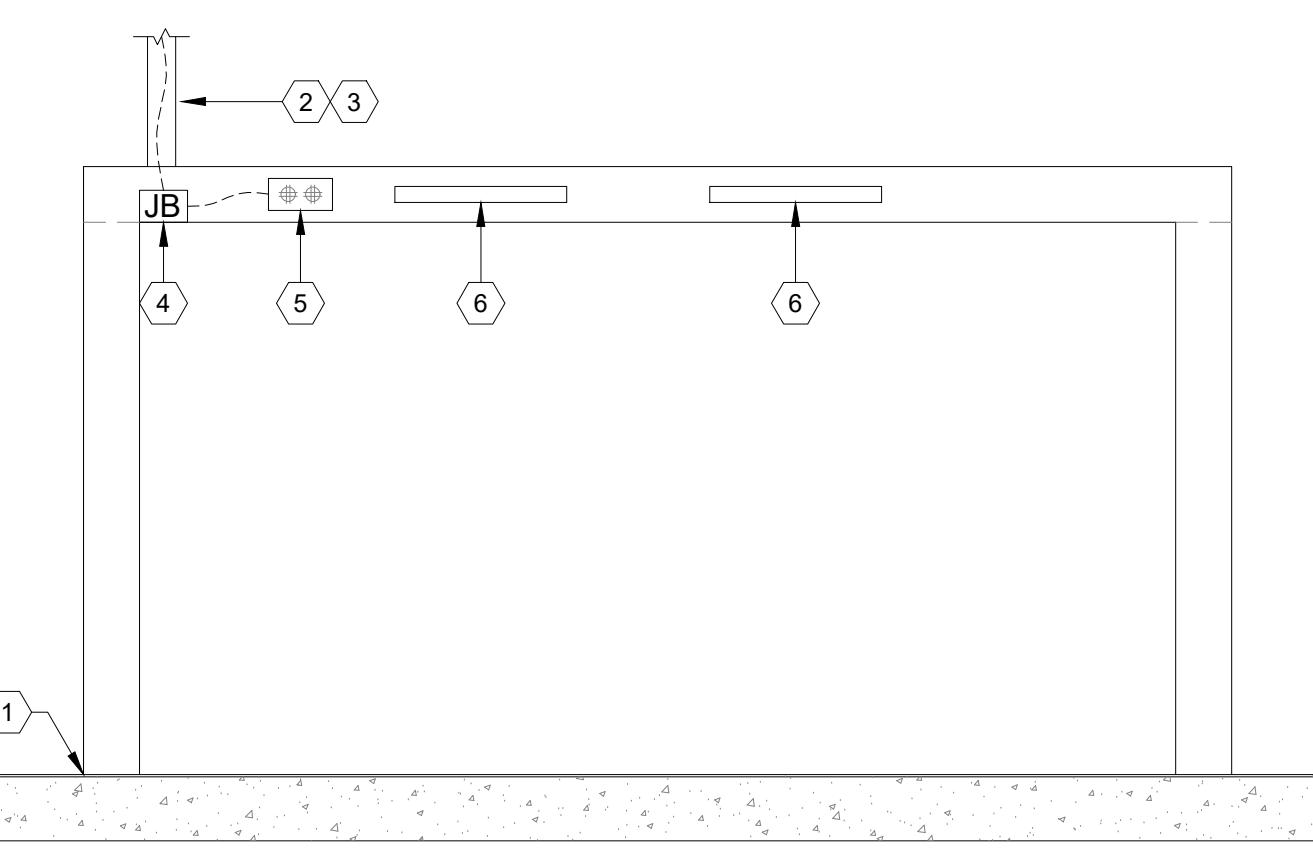
FF310 KEY NOTES	
#	NOTES
1	FINISH CEILING.
2	STEEL EXTRUDED FIXTURE BY OWNER'S VENDOR. EXACT HEIGHT ADJUSTED IN FIELD TO MATCH CEILING HEIGHT.
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE APPROVED BX CABLE CONNECTION ASSEMBLY FROM CEILING J-BOX AND EXTEND CIRCUIT TO BLANK DUPLEX J-BOX INSIDE FIXTURE. BX CABLE SHOULD BE SUSPENDED IN CEILING PER CODE REQUIREMENTS. BLANK DUPLEX J-BOX CAN BE INSTALLED IN EITHER SIDE FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE DUPLEX RECEPTACLE AND MAKE ALL FINAL CONNECTIONS.
4	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR. PROVIDE ADDITIONAL CEILING MOUNTED J-BOX FOR DATA IF REQUIRED BY LOCAL JURISDICTION.
5	OWNER'S VENDOR TO PROVIDE CAT5E CABLING FOR DATA FROM TELCO CLOSET TO FIXTURE. PROVIDE PLASTIC GROMMETS TO FIT 3/4" KNOCK OUTS IN BLANK DUPLEX J-BOX AS REQ'D. PROVIDE RJ45 CONNECTORS AND TERMINATE CONNECTORS ON BOTH SIDES OF CAT5E CABLING. ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTION TO PC WITHIN FIXTURE.
6	REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MFR FOR QUESTIONS OR DISCREPANCIES.

FF209 KEY NOTES	
#	NOTES
1	Fixture anchored to floor, typ.
2	POWER POLE: STD CAP - POWER DEEP CAP - DATA
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND J-BOXES ABOVE CEILING FOR POWER POLE.
4	J-BOX FOR CONNECTION TO POWER SOURCE BY ELECTRICAL CONTRACTOR AFTER FIXTURE INSTALLATION.
5	ELECTRICAL CONTRACTOR TO INSTALL POWER RECEPTACLES IN BLANK DUPLEX J-BOX INSIDE FIXTURE. PROVIDE POWER CIRCUIT FROM PANEL TO RECEPTACLES AND PROVIDE APPROVED FLEX CONNECTION ASSEMBLY TO POWER SOURCE AFTER FIXTURE INSTALLATION.
6	ELECTRICAL CONTRACTOR TO INSTALL OWNER SUPPLIED POWER STRIP AND FINAL CONNECTION TO POWER SOURCE AFTER FIXTURE INSTALLATION.

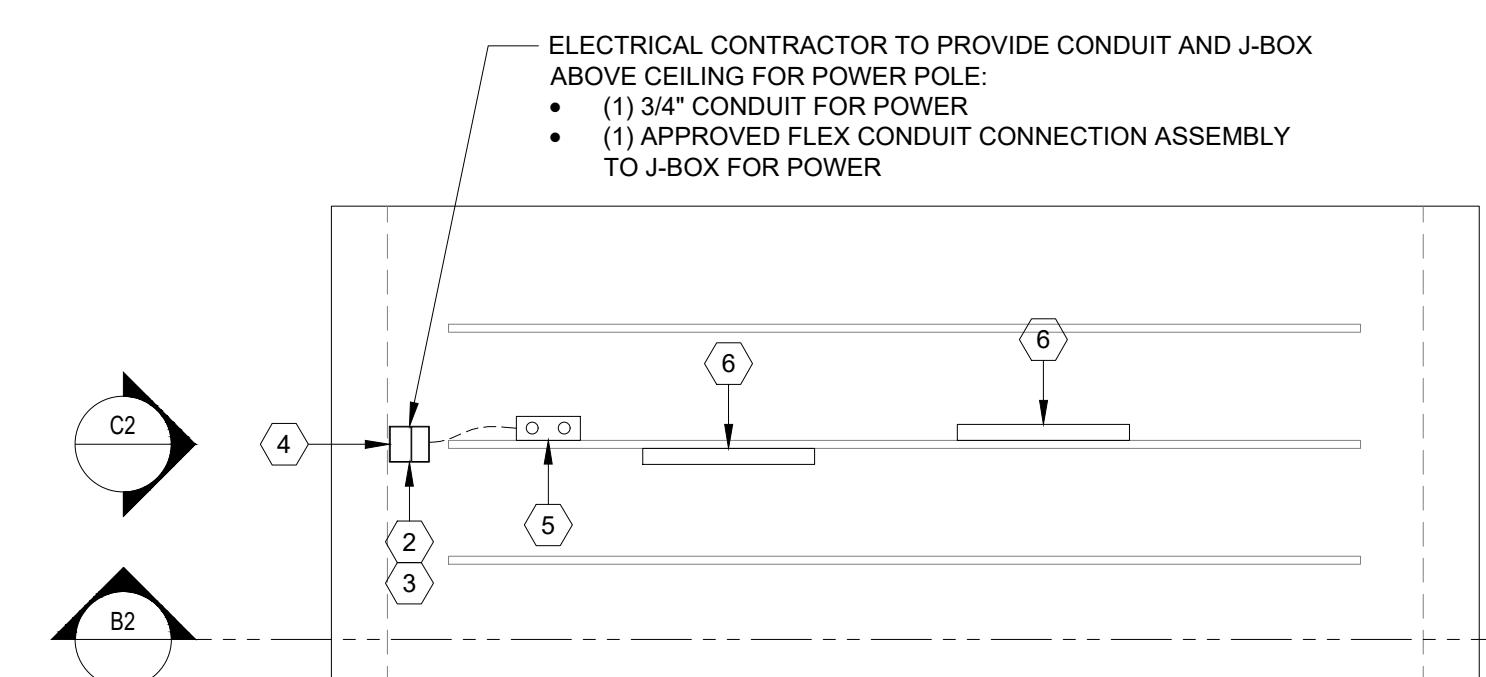
GENERAL NOTES

- A BLANK DUPLEX AND QUADPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.
- B POWER POLE IS PROVIDED BY T-MOBILE.
- C J-BOXES ABOVE CEILING FOR POWER POLE ARE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

C2 FF209 - ELEVATION
1" = 1'-0"



B2 FF209 - SECTION
1" = 1'-0"



A2 FF209 - PLAN
1" = 1'-0"

TOUHY AVE AND CENTRAL AVE
5710 W TOUHY AVE
SPACE A-4B
NILES, IL 60714

#	DESCRIPTION	DATE
DATE:	04.02.2024	
SCALE:	AS NOTED	
DRAWN BY:	CNM	

193

CORPORATE TENANT REMODEL
RMC

SHEET TITLE: FIXTURE FEED WIRING DETAILS

SHEET NUMBER: E502

4



4/17/2024

C

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [F17] ¹	furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 [F57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturer's operation, specification, programming procedures and means of illustrating to owner how building, equipment and systems will interact, be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F16] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: GCTO PROVIDE

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |

Project Title: T-Mobile - 193 Report date: 04/09/24

Data filename: Page 5 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, 1 [EL22] ¹	Spaces required to have light, reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a space by 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E111, E112, E113, E601
C405.2.1, 1 [EL18] ¹	Occupancy sensors installed in classrooms, meeting/multipurpose rooms, copy/print rooms, loading docks, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and outdoor areas up to 300 sqft that are enclosed by floor-to-ceiling height per C405.2.1.2 control function in warehouses and section C405.2.1.3 for open plan office areas.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E111, E112, E113, E601
C405.2.1, 2 [EL19] ¹	Occupant sensor control function in warehouses in aisleways and open areas is configured so that general lighting can be controlled independently from the zones with floor areas >= 600 sqft, within the space, 2) general lighting in each aisleway independently and do not control beyond the end of the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-control period.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1, 3 [EL20] ¹	Occupant sensor control function in open plan office areas. Occupant control so that general lighting can be controlled independently from the zones with floor areas >= 600 sqft, within the space, 2) general lighting in each aisleway independently and do not control beyond the end of the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-control period.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2, 1 [EL21] ¹	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E111, E112, E113, E601

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |

Project Title: T-Mobile - 193 Report date: 04/09/24

Data filename: Page 3 of 5

1	2	3
High Impact (Tier 1)	Medium Impact (Tier 2)	Low Impact (Tier 3)

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
 Project Title: T-Mobile - 193
 Project Type: Alteration

Construction Site: 5710 W Touhy Ave Space A-1B Niles, IL 60714
 Owner/Agent: 12920 SE 38th St Bellevue, WA 98006 1-800-318-9270
 Designer/Contractor: 435 Schenck Ave Oakwood, OH 45409 937-486-4233 eric@phase3eng.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-SALES (Retail: Sales Area)	1365	1.05	1433
2-BOH (Common Space Types:Storage)	588	0.38	223
			Total Allowed Watts = 1657

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D (C X D)	E Watt
SALES (Retail: Sales Area, 1365 sq ft.)	0	0	600	600
Daylighting: SA CLO SEE E112: Wattage based on current limiting device capacity	1	5	40	200
LED: L231: SEE E112: Other	1	5	36	180
LED: L231-EM: SEE E112: Other	1	2	22	44
BOH (Common Space Types: Storage, 588 sq.ft.)	1	4	40	160
LED: L231-CB: SEE E112: Other	1	2	22	44
LED: L234: SEE E112: Other	1	2	9	18
			Total Proposed Watts =	1202

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name : Title Signature Date

Project Title: T-Mobile - 193 Report date: 04/09/24

Data filename: Page 1 of 5

1	2	3
High Impact (Tier 1)	Medium Impact (Tier 2)	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, 1 [EL24] ¹	Daylight zones provided with individual controls to control the daylighting system and the general lighting. See code section C405.2.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sidelit zones on first floor in Group A-2 and M occupancies.
C405.2.4, 2 [EL25] ¹	Daylight responsive controls for exterior lighting. See code section C405.2.3. Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.5 [EL27] ¹	Additional interior lighting power reduction controls shall be provided for the approved lighting plants and is automatically controlled and sensing system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: N/A - NO ADDITIONAL LPD TAKEN
C405.7 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.7.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.8 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under a motor energy conservation program or the equipment efficiency ratings shall be provided by motor manufacturers or third-party certification programs (no existing certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9, 1 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have a maximum speed of 300 ft/min. and shall reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ¹	Total voltage drop across the combination of feeders and branch circuits <= 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E701
C405.11.1 [EL30] ¹	At least 90% of dwelling unit permanently installed receptacles shall have a minimum wattage of >= 60 milliwatt or luminaires with efficacy >= 45 mW or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.11.2 [EL31] ¹	50% of 15/20 amp receptacles in conference rooms, copy rooms, break rooms, classrooms and workstations and modular furniture will have automatic receptacle control in accordance with C405.11.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

 Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |

 Project Title: T-Mobile - 193 Report date: 04/09/24
 Data filename: Page 4 of 5

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information which is necessary to be determined for the interior lighting and electrical systems and equipment and devices. All information provided is true and accurate. Any standard or claim made, information provided should include interior lighting fixture calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E111, E112, E113, E601

Additional Comments/Assumptions:

#	Description	Date
---	-------------	------

Project Title: T-Mobile - 193 Report date: 04/09/24

Data filename: Page 2 of 5

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |

 Project Title: T-Mobile - 193 Report date: 04/09/24
 Data filename: Page 2 of 5

 TOUHY AVE AND CENTRAL AVE
 5710 W TOUHY AVE
 SPACE A-4B
 NILES, IL 60714

 SHEET TITLE: ENERGY CALCULATIONS
 SHEET NUMBER: E601
 DATE: 04/02/2024
 SCALE: AS NOTED
 DRAWN BY: EMA

193



4/17/2024

ELECTRICAL SPECIFICATIONS DIVISION 1600

1.0 SCOPE

1.1 THE COMPLETE INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS. CONSULT LANDLORD'S DESIGN CRITERIA.

1.2 THE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONSIDERED ADDITIONAL TO ARCHITECT AND MECHANICAL ENGINEER'S SPECIFICATIONS. ANY DISCREPANCY OR CONTRADICTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

1.3 ARCHITECT'S GENERAL REQUIREMENTS ARE PART OF THIS CONTRACT, AND THEY SHALL BE APPLIED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS (ELECTRICAL, ETC.).

1.4 ONCE ONSITE GENERAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ANY CONDITIONS THAT MAY AFFECT HIS WORK IN ANY MANNER PRIOR TO START OF CONSTRUCTION. (MEASUREMENTS - PARTICULAR CONDITIONS, ETC...) GENERAL CONTRACTOR SHALL NOTIFY TENANT REPRESENTATIVE AND ARCHITECT OF ANY SUCH CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

1.5 GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY CHECKING AND ADJUSTMENTS TO COMPLY WITH THE INTENT OF SPECIFICATIONS.

1.6 THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF THE EQUIPMENT. EACH SUBCONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE INSTALLATION.

1.7 GENERAL CONTRACTOR'S TENDER SHALL INCLUDE THE COST OF ALL NECESSARY PERMITS AND CERTIFICATES, ALL DRAWINGS APPROVAL COSTS AND ALL INSPECTION COSTS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.

1.8 EACH SUBCONTRACTOR SHALL COMPLETE THE WORK IN EVERY DETAIL, EVEN THOUGH NOT SHOWN ON DRAWINGS OR CALLED FOR IN THIS SPECIFICATION.

1.9 THE ELECTRICAL TRADE SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. THE TRADE SHALL ALSO PROVIDE ANY ITEMS AND/OR LABOR THAT ARE OBVIOUSLY NECESSARY OR REASONABLY IMPLIED TO COMPLETE ALL WORK.

1.10 ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH CURRENT EDITIONS AND AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA AND ALL LOCAL CODES ADOPTED BY THE LOCAL JURISDICTION HAVING AUTHORITY.

1.11 ALL RUBBISHES AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AT THE END OF EVERY WORKDAY. AT THE CONTRACT COMPLETION, ALL TOOLS AND EQUIPMENT SHALL BE REMOVED AND THE JOB SITE SHALL BE LEFT IN A CLEAN CONDITION.

2.0 GUARANTEE

2.1 EACH SUBCONTRACTOR SHALL GUARANTEE HIS WORK AND INSTALLATION REGARDING HIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS OWN EXPENSE, ALL DEFECTS AND THIS DURING A TWELVE MONTHS PERIOD, STARTING AT THE PROVISIONAL ACCEPTANCE BY THE TENANT. AS LONG AS THE DEFECTS IS NOT DUE TO A BAD USE OR NORMAL WEAR.

3.0 TAXES

3.1 EACH SUBCONTRACTOR SHALL PAY ALL APPLICABLE TAXES, FOR LABOR AND MATERIAL INCLUDED IN HIS TENDER

4.0 TEMPORARY SERVICES

4.1 ALL TEMPORARY LIGHTING (MIN. 200LUX WITH MH HALIDE FIXTURE) AND POWER DURING CONSTRUCTION SHALL BE BY GENERAL CONTRACTOR AFTER AGREEMENT WITH ELECTRICAL CONTRACTOR AND SHALL BE TAKEN FROM EXISTING PANEL SERVING THE SPACE, SUPPLY VOLTAGE AND AMPS AS REQUIRED.

5.0 SHOP DRAWINGS

5.1 PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT SUBMIT TO ENGINEER FOR APPROVAL A MINIMUM OF TWO (2) COPIES OF SHOP DRAWINGS FOR EACH ITEM OF EQUIPMENT.

6.0 ALTERNATE EQUIPMENT

6.1 PROPOSAL SHALL BE BASED ON SPECIFIED EQUIPMENT AND MATERIAL.

6.2 PROPOSAL FOR ALTERNATE TO SPECIFICATION SHALL INCLUDE MANUFACTURER NAME, MODEL AND COST MODIFICATION.

6.3 COST OF ANY CHANGE REQUIRED TO OTHER TRADES WORK DUE TO SUBSTITUTION OF ALTERNATE EQUIPMENT, SHALL BE INCLUDED IN THE SUBCONTRACTOR'S PROPOSAL CALLING FOR THIS SUBSTITUTION. EVEN IF THESE CHANGES APPEAR AFTER THE DEMAND FOR SUBSTITUTION.

6.4 ALTERNATE PROPOSALS WILL BE ACCEPTED OR REJECTED BEFORE CONTRACTS ARE AWARDED. NO CHANGES WILL BE ALLOWED AFTER THE CONTRACT IS SIGNED.

7.0 IDENTIFICATION

7.1 ALL ELECTRICAL EQUIPMENT (SWITCHES, PANELS, CIRCUITS ETC.) MUST BE PROPERLY IDENTIFIED WITH LAMICOID NAME PLATES SCREWED ON PANELS AND HAVE A TYPED DIRECTORY AND INDICATE LOAD ON EACH CIRCUIT.

8.0 GROUND

8.1 THE GROUND SHALL BE CONTINUOUS AND SHALL BE CONFORM TO NATIONAL ELECTRICAL CODE.

9.0 PULLING AND JUNCTION BOXES

9.1 TRADE WILL PROVIDE PULLING AND JUNCTION BOXES WITH SCREWED PLATED COLOR MATCHED FOR WALL AND CEILING FINISHES.

9.2 ALL BOXES SHALL BE ACCESSIBLE.

9.3 BACK TO BACK BOXES WILL NOT BE ACCEPTED.

9.4 FULL BOXES SHALL BE LOCATED EVERY 100 FEET (30m) AND EVERY TWO 90 DEG. ELBOW.

9.5 ALL SURFACE MOUNTED BOXES FOR JUNCTION, SOCKETS, SWITCHES, FIXTURES ETC., SHALL BE F.S. TYPE.

10.0 DRILLING

10.1 ELECTRICAL CONTRACTOR SHALL DRILL OR CHIP THE FLOOR WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SLEEVES IN CONCRETE SLAB, WHERE REQUIRED.

10.2 NO ELECTRICAL OR PNEUMATIC HAMMER SHOULD BE USED.

10.3 EXISTING CONCRETE COLUMNS ARE NOT TO BE CHANNELLED OR NOTCHED.

11.0 WIRING AND CONDUIT

11.1 ALL WIRING, WILL BE COPPER TYPE, No.12 AWG MINIMUM, UNLESS OTHERWISE NOTED.

11.2 ALL SURFACE WIRING, SHALL BE THWN TYPE IN E.M.T. CONDUIT. ALL COUPLINGS TO BE RAIN TIGHT OR GALVANIZED SET CREW TYPE.

11.3 ALL WIRING AND CONDUIT, WILL BE RECESSED IN WALL OR CEILING (INCLUDING EXISTING ARCHITECTURAL ELEMENTS) UNLESS APPROVED BY LOCAL INSPECTOR AND JHA. ELECTRICAL CONTRACTOR TO VERIFY.

11.4 ALL WIRING SHALL BE PARALLEL WITH ARCHITECTURAL LINES AND DESIGN.

11.5 FOR SUSPENDED CEILING, MC CABLE FOR 15 FEET (4.5m) IS ACCEPTED. MAIN WIRING TO BE THWN IN E.M.T. CONDUIT.

11.6 ALL EMPTY CONDUIT SHALL INCLUDE A PULLING WIRE No.12 AWG - MAX. 6'-0" FLEXIBLE CONDUIT MAY BE USED FOR FIXTURE AND EQUIPMENT CONNECTIONS ONLY. PLASTIC CONDUIT IS NOT ACCEPTED.

12.0 FIRE BARRIER

12.1 IN CASE OF CROSSING A FIRE BARRIER (FLOOR, WALL, OR CEILING) FILL GAP WITH APPROPRIATE MATERIAL. THIS MATERIAL SHALL BE EFFICIENT BARRIER FOR FLAME, FUME AND GAS. SEAL AT SMOKE WALL.

13.0 EXPANSION JOINT

13.1 EACH TIME ELECTRICAL CONDUIT PASS THROUGH AN EXPANSION JOINT OF THE BUILDING USE GALVANIZED STEEL SLIDING TYPE EXPANSION JOINT WITH CONTINUOUS COPPER GROUNDING, FLEXIBLE AT THESE LOCATIONS.

14.0 FIXTURES AND LAMPS

14.1 COMPLETE LIGHTING PACKAGE IS OWNER (OR LANDLORD) FURNISHED (REFER TO LEASE AGREEMENT). GC INSTALLED. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES, LAMPS AND CONTROLS PER MANUFACTURER SPECS AND EDSS (ENERGY DESIGN SERVICE SYSTEMS) INSTALLATION INSTRUCTIONS.

15.0 FIELD CONDITIONS

15.1 ENGINEER CAN RELOCATE ALL EQUIPMENT (FIXTURES, OUTLETS, ETC...), AT NO COST, IF DISPLACEMENT IS LESS THAN 10 FEET (3m), AND WRITTEN NOTICE IS SENT TO CONTRACTOR PRIOR TO INSTALLATION.

15.2 CONFER WITH ALL OTHER TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC. AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISHES.

16.0 EXISTING CONDITIONS

16.1 ELECTRICAL CONTRACTOR WORK AFFECTING OTHER TENANT SHALL BE DONE OFF BUSINESS HOURS (NIGHT OR WEEKEND), COORDINATE WITH THE LANDLORD.

16.2 ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE ANY UNUSED MATERIAL.

16.3 ANY NON REUSED MATERIAL SHALL BE GIVEN BACK IN GOOD CONDITION TO LANDLORD

16.4 ANY DAMAGED WALL, FLOOR, CEILING, FINISHES SHALL BE REPAIRED BY GENERAL CONTRACTOR THOSE REPAIRS SHALL MATCH EXISTING FINISHES.

17.0 COMMUNICATIONS

17.1 TENANT IS IN CHARGE FOR ANY COMMUNICATIONS SYSTEMS.

17.2 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL, IF REQUIRED, TELEPHONE TERMINAL BOARD, 24"x24"

PLYWOOD 3/4" THICK, AND CONDUIT AS INDICATED ON DRAWINGS.

17.3 ALL WIRING, INCLUDING INSTALLATION AND CONNECTION TO EQUIPMENT SHALL BE PERFORMED BY A SPECIALIZED CONTRACTOR, IN CHARGE OF THE TENANT.

18.0 FIRE ALARMS

18.1 EXISTING FIRE ALARM TO BE KEPT. TENANT'S FIRE ALARM CONTRACTOR TO RELOCATE IF REQUIRED ANY EQUIPMENT AT NO COST.

18.2 ALL REQUIRED WORK RELATED TO LIFE SAFETY SYSTEMS SHALL BE DONE AT NO EXTRA COST. RETAIN THE SYSTEM MANUFACTURER'S FORCES TO PERFORM FINAL CONNECTIONS, MODIFICATIONS AND PROVISION OF NEW INTERFACING DEVICES IN THE SYSTEM PANELS, ETC.

18.3 ENSURE FULL COMPATIBILITY OF ALL NEW DEVICES WITH EXISTING LIFE SAFETY SYSTEMS.

18.4 TENANT'S FIRE ALARM CONTRACTOR SHALL HAVE SYSTEM MANUFACTURER TEST AND CERTIFY LIFE SAFETY SYSTEMS FOR PROPER OPERATION AT COMPLETION OF WORK.

19.0 COLOR CODE

	120/208V	120/240V HIGH LEG 3P 4W	277/480V
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	ORANGE	ORANGE
PHASE C	BLUE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GREY
GROUND	GREEN	GREEN	GREEN

20.0 SPECIAL NOTES

20.1 ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT TO EC PROVIDED SURFACE MOUNTED J-BOXES. OWNER FURNISHED RECESSED FLOOR BOXES AND OWNER FURNISHED POKE-THRU BOXES AS INDICATED. AND PROVIDE APPROVED FLEX CONNECTION ASSEMBLY. LEAVE FLEX CONNECTION ASSEMBLY COILED AND TAPED AS REQ'D UNTIL FIXTURE INSTALLATION. AFTER FIXTURE INSTALLATION, EC TO INSTALL POWER RECEPACLES IN PRE-INSTALLED BLANK BOXES INSIDE FIXTURE. PROVIDE POWER CIRCUIT FROM PANEL TO RECEPACLES AND CONNECT POWER SOURCE. EC TO PROVIDE PULL STRING FROM TELEPHONE BOARD TO ALL FIXTURE DESIGNATIONS FOR CAT5e DATA CABLE AND RJ45 JACKS BY OWNER'S VENDOR. SEE WIRING DETAILS ON E500 SHEETS FOR ADDITIONAL INFORMATION.

20.2 ON ALL OUTLETS LOCATED IN POS COUNTERS, ETC., ELECTRICAL TRADE SHALL ATTACH ALL CONDUITS TO THE FLOOR WITH APPROPRIATE CONNECTORS. GC MUST OBTAIN WRITTEN APPROVAL FROM THE LANDLORD PRIOR TO ANY TRENCHING OR CORE DRILLING.

20.3 RECEPACLES, OUTLETS, ETC., LOCATED AT THE CASH COUNTERS SHALL BE INSTALLED IN COMMON BOXES. USE 1 GANG, 2 GANG, 3 GANG OR 4 GANG, ETC..., BOXES C/W SEPARATIONS AS PER CODE, AS REQUIRED. BOXES SUPPLIED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR.

21.0 DEMOLITION

21.1 REMOVE AND TRANSPORT OUT OF THE CONSTRUCTION SITE ALL EQUIPMENT MADE OBSOLETE CONSECUTIVE TO THE WORK, INCLUDING WIRING, CONDUITS, BOXES, OUTLETS, SWITCHES, LIGHTING FIXTURES, DISTRIBUTION EQUIPMENT, SUPERVISORY AND COMMUNICATION EQUIPMENT. ALL ACCESSORIES BEING PART OF THE ELECTRICAL INSTALLATION.

21.2 REMOVE THE WIRING AND THE CONDUIT UP TO THE LAST PANEL OR BOX KEPT IN THE NETWORK.

21.3 PUT BACK IN SERVICE ALL FEEDERS, CONTROL OR COMMUNICATION CABLES WHEN THE CONTINUITY OF THOSE SERVICES IS INTERRUPTED BY THE WORK.

22.0 SPECIFICATIONS

22.1 DISCONNECT AS PER CUTLER-HAMMER

MODEL	FUSE	INSTALLATION
HD	WITH	INTERIOR
HD	WITHOUT	INTERIOR
RD	WITH	EXTERIOR
RD	WITHOUT	EXTERIOR

GAGE	MODEL	SPARE QTY.
0-600A	AJT	10% (MINIMUM 6)

22.3 SPLITTER BOXES AND TROUGHS, AS PER BEL. 14 GA STEEL WITH HINGED COVER CLOSED WITH SCREWS, TINNED COPPER BUS BARS, COMPLETE WITH SOLDERLESS TERMINALS. BARS SUPPORTED BY ISOLATORS.

22.4 TRANSFORMERS AS PER DELTA, DT (TRIPLE PHASE).

22.5 PANELS C/W DOORS AND LOCKS, AS PER CUTLER-HAMMER

USAGE	VOLTAGE	MODEL
LIGHTING	120/208V 3PH	PRL-1
BREAKERS WITH 10,00		