

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, AMENDED ORDINANCES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS. ALL NECESSARY LICENSES, TESTS, CERTIFICATES, ETC., REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.

2. VISIT THE PROJECT SITE TO VERIFY EXISTING CONDITIONS AND TO ASCERTAIN A MORE COMPLETE KNOWLEDGE OF THE SCOPE OF WORK REQUIRED BEFORE SUBMITTING A PROPOSAL. BY SUBMITTING A PROPOSAL, THE CONTRACTOR ACKNOWLEDGES THAT IT HAS TAKEN STEPS REASONABLY NECESSARY TO ASCERTAIN THE NATURE AND LOCATION OF THE WORK, AND THAT IT HAS INVESTIGATED AND SATISFIED ITSELF AS TO THE GENERAL AND LOCAL CONDITIONS WHICH CAN AFFECT THE WORK OR ITS COST. THE CONTRACTOR ALSO ACKNOWLEDGES THAT IT HAS SATISFIED ITSELF AS TO THE CHARACTER, QUALITY, AND QUANTITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED INsofar AS THIS INFORMATION IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE, INCLUDING ALL EXPLORATORY WORK DONE BY THE OWNER AND THEIR PROFESSIONAL DESIGN CONSULTANTS, AS WELL AS FROM THE CONSTRUCTION DOCUMENTS MADE A PART OF THIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO TAKE THE ACTIONS DESCRIBED AND ACKNOWLEDGED IN THIS PARAGRAPH WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FROM ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK, OR FOR PROCEEDING TO SUCCESSFULLY PERFORM THE WORK WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

3. VERIFY THE EXACT LOCATION OF ALL UTILITIES, INCLUDING THOSE (IF ANY) NOT SHOWN OR INVOLVED IN THE WORK FOR THIS PROJECT TO ASSURE THE NON-INTERUPTION OF THOSE SERVICES, AND FOR SAFETY REASONS DURING CONSTRUCTION.

4. DO NOT SCALE THE DRAWINGS. WRITTEN SCALES ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY. SCALING THE DRAWINGS WILL NOT CONVEY SPECIFIC INFORMATION. DIMENSIONS TO NEW PARTITIONS ARE TO FACE OF WALLBOARD UNLESS NOTED OTHERWISE (U.N.O.). DIMENSIONS FROM EXISTING WALLS ARE FROM THE FINISHED (OR REMAINING) WALL SURFACE, U.N.O.

5. IF SIGNIFICANT DISCREPANCIES OR CONFLICTS IN THE DETAILS OR DIMENSIONS ARISE, OR IF UNFORESEEABLE CONDITIONS ARE ENCOUNTERED THAT IMPAIR THE ABILITY TO PERFORM THE WORK AS DESCRIBED AND/OR DETAILED, THEN REPORT SUCH OCCURRENCES TO THE ARCHITECT BEFORE PROCEEDING.

6. ALL EQUIPMENT, MATERIAL, AND ARTICLES INCORPORATED INTO THE WORK SHALL BE NEW AND OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED. REFERENCES TO PRODUCTS OR PATENTED PROCESSES BY TRADE NAME, MAKE, OR CATALOG NUMBER, SHALL BE REGARDED AS ESTABLISHING A STANDARD OF QUALITY. IT IS NOT INTENDED TO LIMIT COMPETITION.

7. AT ALL TIMES KEEP THE WORK AREA, INCLUDING ALL STAGING AND STORAGE AREAS, FREE FROM ACCUMULATIONS OF WASTE MATERIALS. BEFORE COMPLETING THE WORK, REMOVE FROM THE WORK AREA AND PREMISES ANY RUBBISH, TOOLS, SCAFFOLDING, EQUIPMENT, AND MATERIALS THAT ARE NOT THE PROPERTY OF THE OWNER. UPON COMPLETING THE WORK, LEAVE THE WORK AREA IN A CLEAN, NEAT, AND ORDERLY CONDITION.

8.

9. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

10. UNLESS NOTED OTHERWISE, EVERYTHING SHOWN ON THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE G.C.

11.

12. CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR MINIMUM FROM THE DATE OF SUBSTANTIAL COMPLETION IN WRITING. GUARANTEES OR WARRANTIES SPECIFIED IN THE CONSTRUCTION DOCUMENTS SHALL ALSO BE PROVIDED IN WRITING FOR THE TERMS AND CONDITIONS SPECIFIED BY THESE DOCUMENTS OR THE OWNER.

13. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL PROVIDE ANY PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, TRANSPORTATION, EXPENSES, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK UNDER THE CONTRACT.

14.

15. THE CONTRACTOR WARRANTS TO THE OWNER AND PROFESSIONALS OF RECORD THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THESE CONSTRUCTION DOCUMENTS. ALL WORK NOT CONFORMING TO THESE STANDARDS MAY BE CONSIDERED DEFECTIVE. IT IS UNDERSTOOD THAT NO INFERIOR OR NON-CONFORMING WORK OR MATERIALS WILL BE ACCEPTED WITHOUT WRITTEN CONSENT, WHETHER DISCOVERED AT THE TIME THEY ARE INCORPORATED IN THE WORK OR AT ANY TIME BEFORE OR AFTER FINAL ACCEPTANCE. IF REQUIRED BY THE OWNER OR PROFESSIONALS OF RECORD, THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND & QUALITY OF MATERIALS & EQUIPMENT USED.

16. ALL FIRE EXITS ARE TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.

17. ALL INTERIOR STUD PARTITIONS TO BE ANCHORED AND CONSTRUCTED SO AS TO RESIST A LATERAL LOAD OF 5 P.S.F. MIN. BE SURE TO PAY PARTICULAR ATTENTION TO LOWER WALL PARTITIONS NOT FASTENED TO DECK OR CEILINGS.

18. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS: 1). TRANSITION STRIPS WHERE ALL DISSIMILAR FLOOR, WALL, AND CEILING FINISHES MEET. 2). BLOCKING FOR ALL ITEMS TO BE ANCHORED OR SECURED TO WALLS, FLOORS AND CEILINGS. 3). CONCEAL ALL PIPING IN WALLS, FLOORS ABOVE CEILINGS, ETC. UNLESS PERMISSION IS GRANTED BY THE ARCHITECT. 4). PROVIDE CHASES FOR MECHANICAL DUCTWORK.

19. ALL SECTIONS, DETAILS, MATERIALS, METHODS, ETC. THAT ARE SHOWN AND/OR NOTED ON ANY PLAN, SECTION, DETAIL OR SCHEDULE SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS NOTED OTHERWISE.

20. IF THE CONTRACTOR ENCOUNTERS A CONDITION NOT COVERED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY AND RESOLVE THE ISSUES WITH THE ARCHITECT BEFORE COMMENCING ANY WORK OR RELATED WORK TO THE CONDITION.

21. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS OR INSTRUCTIONS UNLESS HEREINAFTER SPECIFIED OTHERWISE.

22. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING ITS BEST SKILL AND ATTENTION. G.C. SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION AND/OR INSTALLATION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

23. THE WARRANTIES AND GUARANTEES SPECIFIED IN THE CONSTRUCTION DOCUMENTS SHALL BE IN ADDITION TO AND NOT IN LIMITATION OF ANY OTHER WARRANTY OR GUARANTEE OR REMEDY REQUIRED BY LAW OR BY THE CONSTRUCTION DOCUMENTS.

24. IF THERE ARE ANY QUESTIONS OR CONFLICTS CONCERNING COMPLIANCE WITH SUCH CODES, ORDINANCES OR STANDARDS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION. ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, TESTS, ETC. SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR. (OR OWNER, IF HE DESIGNATES)

25. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN AND MEETS ALL APPLICABLE CODES BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.

26. DIMENSIONS SHOWN ARE TO FINISHED FACE OF PARTITION. CONSTRUCTION NOT SHOWN ON PLAN WILL BE SHOWN ON DETAIL DRAWINGS. CONSULT ARCHITECT FOR ANY DIMENSIONAL CONFLICTS OR OMISSIONS FOR RESOLUTION PRIOR TO LAYOUT AND CONSTRUCTION.

27. DOOR JAMBS ARE TO BE LOCATED 4" FROM ADJACENT PARTITIONS (U.N.O.).

28. DOOR JAMBS IN THOSE AREAS TO RECEIVE CASING ARE TO BE AS DETAILED.

29. VERIFY RELATIONSHIP BETWEEN EXISTING CONSTRUCTION AND NEW CONSTRUCTION AS SHOWN IN THESE DRAWINGS. REPORT ANY DISCREPANCIES TO ARCHITECT OR OWNER PRIOR TO EXECUTION OF ANY CONSTRUCTION AFFECTING THESE AREAS.

30. ALL WORK SHALL CONFORM IN QUALITY TO ACCEPTED INDUSTRY STANDARDS. ANY QUESTIONS REGARDING THIS REQUIREMENT SHALL BE DIRECTED TO THE ARCHITECT FOR INTERPRETATION.

31. SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED TO TOTALLY COMPLETE PROJECT (FROM INTERFACE WITH EXISTING CONSTRUCTION THROUGH CONFIGURATION AS INDICATED IN THE CONSTRUCTION DOCUMENTS).

32. ALL FINISHED WORK SHALL BE COMPLETE AND FUNCTIONALLY CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS (WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT). ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE DIRECTED TO THE ARCHITECT.

33. THE GENERAL CONTRACTOR SHALL WORK WITH OWNER'S SUB-CONTRACTORS / VENDORS THAT REQUIRE COORDINATED EFFORTS FOR SUCCESSFUL COMPLETION OF THE PROJECT.

34. CONTRACTOR SHALL BE RESPONSIBLE FOR REVISIONS TO ALL LIFE SAFETY ITEMS (I.E.: SPRINKLER HEADS, FIRE ALARM PULLS, ENUNCIATORS, EXIT LIGHTS, ETC.) IN ORDER TO MAINTAIN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES. ALL PATHS OF EMERGENCY EGRESS ARE TO REMAIN OPEN AND FREE OF OBSTRUCTION AT ALL TIMES.

35. OWNER FURNISHED, OWNER INSTALLED (O.F.O.I.) ITEMS DEFINED: OWNER AND THEIR SUBCONTRACTING AGENT IS RESPONSIBLE FOR ACCEPTABLE COMPLETION OF ITEM IN QUESTION.

36. ALL MISCELLANEOUS FRAMING AND ASSOCIATED SUPPORT BLOCKING WITHIN WALL ASSEMBLIES ARE TO BE IN FULL COMPLIANCE WITH ACCEPTED AND APPROVED FIRE CODES AND RATED CONSTRUCTION STANDARDS.

37. ALL DEMOLITION AND NEW CONSTRUCTION IS SHOWN AS "HEAVY LINES" AND IS NOTED, SCHEDULED, DIMENSIONED, AND REFERENCED WITHIN LEGENDS.

38. THE CONTRACTOR SHALL CERTIFY SIZE AND LOCATION OF ALL REQUIRED OPENINGS, CONDUIT/PIPING RUNS AND JUNCTION BOX OPENING LOCATIONS FOR STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK AND EQUIPMENT WITH TRADES INVOLVED.

39. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS.

40. PROTECT ON-SITE UTILITIES, FENCE, LANDSCAPING & OWNER'S SAFE USE OF THE PROPERTY/ BUILDING AT ALL TIMES DURING CONSTRUCTION.

41. IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE A MECHANICAL, ELECTRICAL, AND PLUMBING INSTALLATION THAT IS COMPLETE. ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED.

42. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.

43. "TYPICAL" OR "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED

44. "SIMILAR" OR "SIM." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SIMILAR TO A CONDITION DETAILED FOR ANOTHER LOCATION.

45. THIS COVER SHEET IS A MASTER INDEX. NOT ALL SYMBOLS/ITEMS WILL BE INCLUDED IN DRAWINGS.

46. WORK NOTED AS "BID ALTERNATE" REQUIRES SEPARATE PRICING IDENTIFIED FROM THE REMAINDER OF THE SCOPE OF WORK (KNOWN AS "BASE BID WORK"). OWNER WILL DETERMINE WITHIN 30 DAYS FROM THE DATE OF BID OPENING IF HE SHALL ACCEPT THE "BID ALTERNATE" WORK/BID AND NOTIFY THE CONTRACTOR TO INCLUDE THE WORK IN HIS OVERALL SCOPE/CONTRACT. BID ALTERNATE PRICING WILL BE GUARANTEED BY THE CONTRACTOR FOR THIS 30 DAY PERIOD.

47. CONTRACTOR IS TO DETERMINE SCOPE OF ANY DEMOLITION WHICH MIGHT BE REQUIRED BASED UPON INFORMATION CONTAINED IN THE CONSTRUCTION DOCUMENTS AS WELL AS SITE INSPECTIONS TO IDENTIFY SPECIFIC REQUIREMENTS.

48. CONTRACTOR SHALL PROVIDE LIST OF LONG LEAD TIME ITEMS. EQUAL ALTERNATES TO ITEMS SPECIFIED MUST BE REVIEWED BY ARCHITECT OR OWNER PRIOR TO SUBSTITUTION

49. OCCUPANCY, WARRANTIES, O&M MANUALS, CONSTRUCTION SCHEDULE, GC INSURANCE, ALL CHANGE ORDERS, CONTRACTS, LIST OF FINAL FINISHES AND FINAL UNCONDITIONAL LIEN WAIVERS TO BE SUBMITTED TO LANDLORD REPRESENTATIVE AT CLOSOUT.

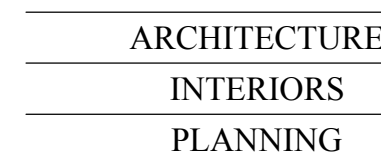
50. VERIFY WITH OWNER/OWNER REP PRIOR TO CLOSING WALLS FOR ADDITIONAL ITEMS THAT MAY REQUIRE BLOCKING, I.E. ARTWORK, DISPLAYS, STANDOFFS, ETC.



OWNER	ARCHITECT
FLOW CONTROL GROUP	TGS Architects, Inc.
	825 WATTERS CREEK BLVD. SUITE 345
	ALLEN, TEXAS 75013
	972-788-1945
	CONTACT: Sean Neal
	sneal@tgsarchitects.com

PROJECT INFORMATION
PROJECT ADDRESS: 203 S. JUPITER ALLEN TEXAS
ZONING: NA
PROJECT SIZE: 12,847 S.F.
**OCCUPANCY GROUP
CLASSIFICATION:**
OCCUPANCY GROUP B Business
SEE SHEET A101 FOR CODE ANALYSIS






SUITE 345
ALLEN, TEXAS 75013
972.788.1945

TGSarchitects.com



I, Brad Sparr, a Registered Professional Land Surveyor for Sparr Surveys, do hereby certify to S&B Investments, L.P., Wells Fargo Bank, N.A. and, LandAmerica American Title Company, exclusively, that this survey was made on the ground, that this drawing correctly represents the facts found at the time of survey and that this professional service conforms to the current Texas Society of Professional Land Surveyors Standards and Specifications for a Category 1A, Condition II Survey.


Brad Sparr
Registered Professional
Land Surveyor No. 3701

CURVE TABLES						LINE TABLES		
No.	DELTA	RADIUS	TAN	ASC	CHORD	No.	BEARING	DIST.
C1	39°30'56"	52.00"	18.68"	35.86"	N 16°39'12" W	L1	S 89°17'27" E	24.02'
C2	39°30'56"	52.00"	18.68"	35.86"	N 16°39'12" W	L2	N 86°46'01" W	24.02'
C3	90°00'00"	10.00'	10.00'	15.71'	N 49°06'15" E	L3	N 33°06'15" E	10.00'
C4	90°00'00"	10.00'	10.00'	15.71'	N 49°06'15" E	L4	N 33°06'15" E	10.00'
C5	90°07'44"	20.00'	20.00'	31.46"	N 48°10'05" E	L5	N 66°44'01" W	24.02'
C6	02°12'18"	5.00'	0.10'	0.19'	N 02°00'07" E	L6	N 86°53'44" W	10.00'
C7	90°00'00"	10.00'	10.00'	15.71'	N 49°06'15" E	L7	N 86°53'44" W	10.00'
C8	39°30'56"	40.00"	14.37"	27.59"	S 16°39'12" E	L8	S 86°44'01" W	10.00'
C9	39°30'56"	40.00"	22.98"	44.14"	S 16°39'12" E	L9	S 89°17'27" E	24.02'
C10	39°30'56"	40.00"	14.37"	27.59"	N 16°39'12" W	L10	N 86°44'01" W	10.00'

THIS SURVEY WAS PERFORMED IN CONNECTION WITH THE TRANSACTION DESCRIBED IN GF NO. 1915002550 OF LANDAMERICA AMERICAN TITLE COMPANY.

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DRAWN BY: B.D.S./CAD
 CHECKED BY: B.D.S.
 SCALE: 1" = 20'
 DATE: JUNE 30, 1998
 UPDATED 11-10-2008

JOB NO. 15859B

SURVEY
LOT 2B
**EAGLE PLAZA
SHOPPING CENTER**
SITUATED IN THE
DAVID WETSEL SURVEY, ABSTRACT NO. 977
CITY OF ALLEN
COLLIN COUNTY, TEXAS



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FLOW CONTROL
GROUP
INTERIOR
RENOVATION

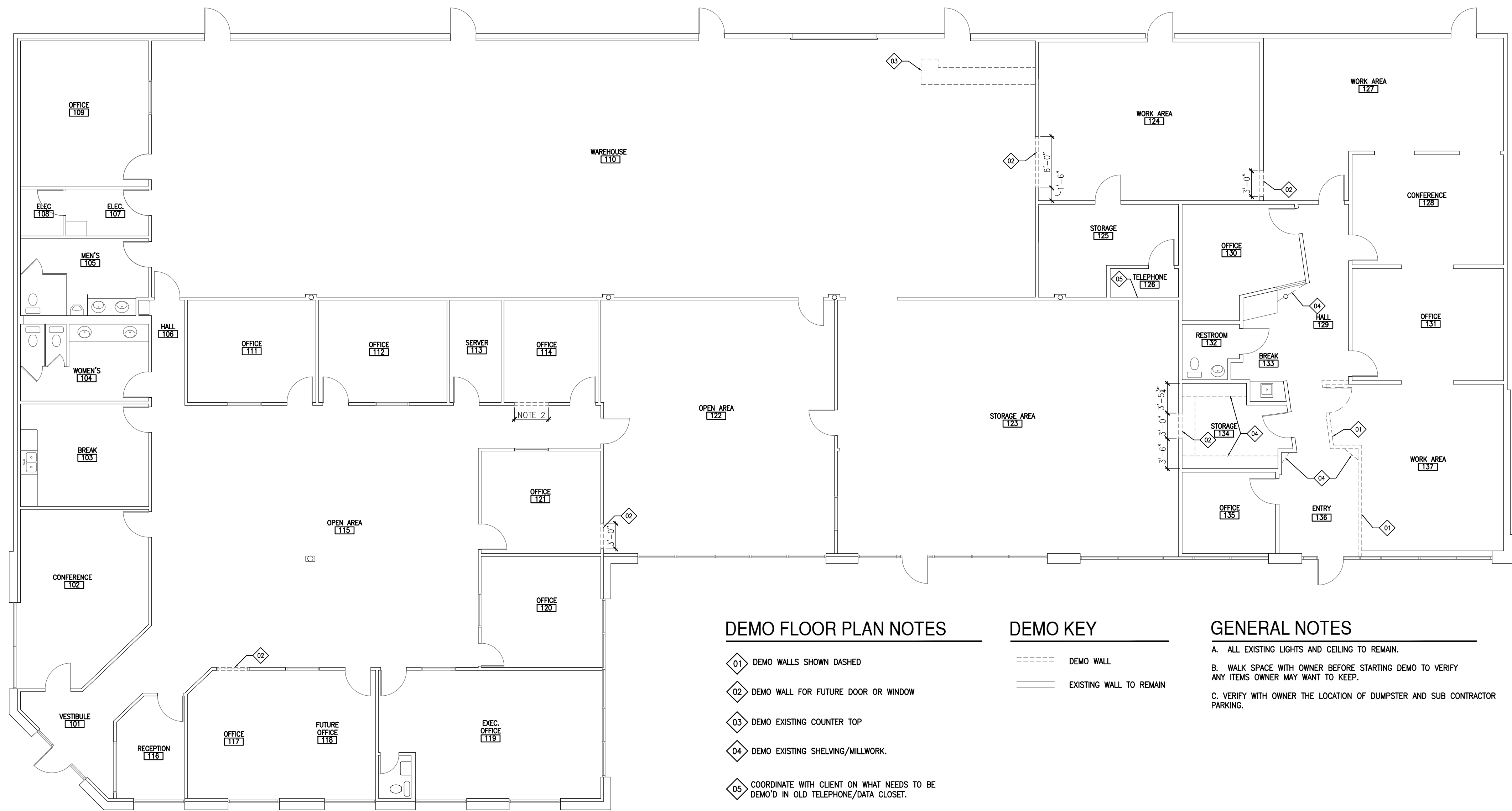
203 S. JUPITER ROAD
ALLEN, TEXAS

[illegible]

SURVEY/
SITE PLAN

PROJECT 23019
SHEET A100

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DEMO FLOOR PLAN NOTES

- 01 DEMO WALLS SHOWN DASHED
- 02 DEMO WALL FOR FUTURE DOOR OR WINDOW
- 03 DEMO EXISTING COUNTER TOP
- 04 DEMO EXISTING SHELVING/MILLWORK.
- 05 COORDINATE WITH CLIENT ON WHAT NEEDS TO BE DEMO'D IN OLD TELEPHONE/DATA CLOSET.

DEMO KEY

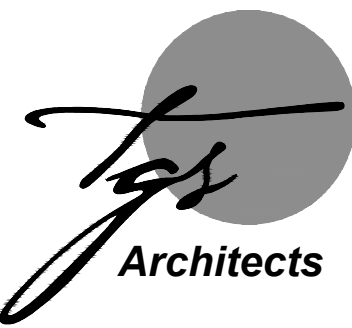
- DEMO WALL
- ===== EXISTING WALL TO REMAIN

GENERAL NOTES

- A. ALL EXISTING LIGHTS AND CEILING TO REMAIN.
- B. WALK SPACE WITH OWNER BEFORE STARTING DEMO TO VERIFY ANY ITEMS OWNER MAY WANT TO KEEP.
- C. VERIFY WITH OWNER THE LOCATION OF DUMPSTER AND SUB CONTRACTOR PARKING.

1 DEMO FLOOR PLAN

SCALE: 1/8"=1'-0"



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12.29.23

FLOW CONTROL
GROUP
INTERIOR
RENOVATION

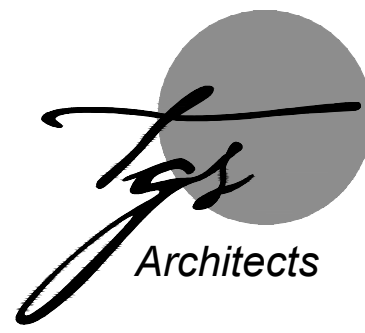
203 S. JUPITER ROAD
ALLEN, TEXAS

DATE	ISSUED FOR
12-29-23	PERMIT

DEMO FLOOR
PLAN

PROJECT	23019
SHEET	A200

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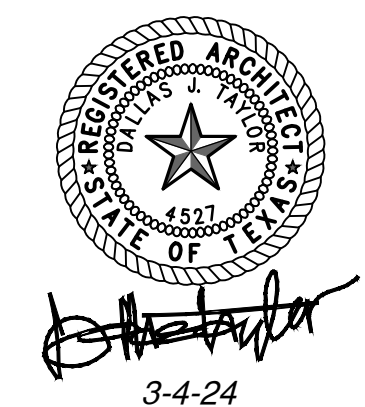


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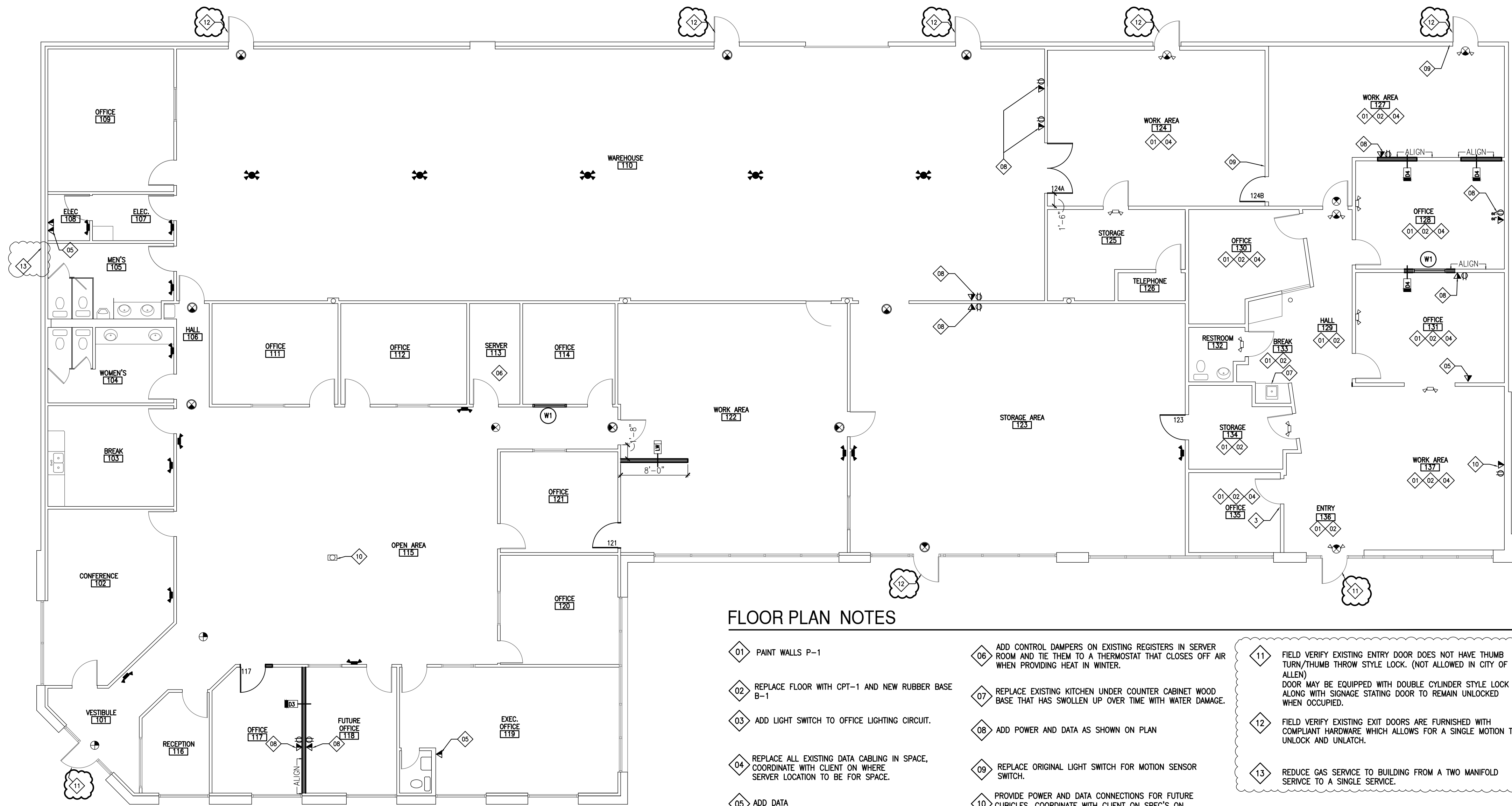
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12-29-23	PERMIT
3-4-24	ADDENDUM 1

FLOOR PLAN
& FINISH
SCHEDULE

PROJECT 23019

SHEET A201



FLOOR PLAN NOTES

- 01 PAINT WALLS P-1

02 REPLACE FLOOR WITH CPT-1 AND NEW RUBBER BASE B-1

03 ADD LIGHT SWITCH TO OFFICE LIGHTING CIRCUIT.

04 REPLACE ALL EXISTING DATA CABLING IN SPACE, COORDINATE WITH CLIENT ON WHERE SERVER LOCATION TO BE FOR SPACE.

05 ADD DATA
- 06 ADD CONTROL DAMPERS ON EXISTING REGISTERS IN SERVER ROOM AND TIE THEM TO A THERMOSTAT THAT CLOSSES OFF AIR WHEN PROVIDING HEAT IN WINTER.

07 REPLACE EXISTING KITCHEN UNDER COUNTER CABINET WOOD BASE THAT HAS SWOLLEN UP OVER TIME WITH WATER DAMAGE.

08 ADD POWER AND DATA AS SHOWN ON PLAN

09 REPLACE ORIGINAL LIGHT SWITCH FOR MOTION SENSOR SWITCH.

10 PROVIDE POWER AND DATA CONNECTIONS FOR FUTURE CUBICLES. COORDINATE WITH CLIENT ON SPEC'S ON FUTURE CUBICLES.
- 11 FIELD VERIFY EXISTING ENTRY DOOR DOES NOT HAVE THUMB TURN/THUMB THROW STYLE LOCK. (NOT ALLOWED IN CITY OF ALLEN) DOOR MAY BE EQUIPPED WITH DOUBLE CYLINDER STYLE LOCK ALONG WITH SIGNAGE STATING DOOR TO REMAIN UNLOCKED WHEN OCCUPIED.

12 FIELD VERIFY EXISTING EXIT DOORS ARE FURNISHED WITH COMPLIANT HARDWARE WHICH ALLOWS FOR A SINGLE MOTION TO UNLOCK AND UNLATCH.

13 REDUCE GAS SERVICE TO BUILDING FROM A TWO MANIFOLD SERVICE TO A SINGLE SERVICE.

FLOOR PLAN KEY

- EXISTING WALL TO REMAIN
- NEW PROPOSED WALLS
- EXISTING EXIT SIGN
- EXISTING EXIT SIGN WITH EMERGENCY BACK UP LIGHTING
- EXISTING EMERGENCY BACK UP LIGHTING
- NEW EXIT SIGN
- NEW WALL MOUNT EMERGENCY LIGHTING (EYEBALL LIGHT)
- NEW CEILING MOUNT EMERGENCY LIGHTING (EYEBALL LIGHT)

GENERAL NOTES

- A. ALL DIMENSIONS ARE FROM FACE OF MASONRY, FACE OF CONCRETE AND FACE OF GYP. UNLESS NOTED OTHERWISE (U.N.O.)
- B. ALL WALLS U.N.O. ARE FINISHED WITH 1/2" TYPE X' GYPSUM BOARD.
- C. ALL DOOR OPENINGS TO BE 4" MINIMUM FROM CORNER OF SPACE UNLESS NOTED OTHERWISE.
- D. HARDWARE ON ALL DOORS TO BE TAS/ADA COMPLIANT INCLUDING THRESHOLDS.
- E. PROVIDE ACCESSIBLE FIXTURES WITH REQUIRED A.D.A. & T.A.S. ACCESSORIES & CLEARANCES.
- F. FIELD VERIFY ALL DIMENSIONS ASSOCIATED WITH THE EXISTING BUILDING/STRUCTURE. REPORT TO ARCHITECT WITH ANY VARIATIONS IN MEASUREMENTS THAN WHAT IS SHOWN.

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



INTERIOR MATERIAL LEGEND – FLOW CONTROL

	FLOORING –
CPT-1	EF CONTRACT, REMIX RMX, CINDER RMX55, BROADLOOM
B-1	ROPPE, 700 SERIES, 4" WALL BASE #100 BLACK, ROLLED GOODS
	WALLS
P-1	SHERWIN WILLIAMS, MATCH EXISTING ADJACENT FACILITY.
P-2	PAINT COLOR TO MATCH EXISTING WALLS IN AREA.
	INTERIOR DOORS – MATCH EXISTING DOORS, OWNER TO APPROVE BEFORE ORDERING
	INTERIOR DOORS FRAMES – MATCH EXISTING, OWNER TO APPROVE BEFORE ORDERING
	DOOR HARDWARE – MATCH EXISTING, OWNER TO APPROVE BEFORE ORDERING

GENERAL NOTES: ROOM FINISHES

- A. NO SUBSTITUTIONS FOR CONVENIENCE ARE PERMITTED. THIS INCLUDES ALL FINISHES AND COLORS INDICATED ON FINISH PLAN LEGEND.
- B. FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.
- C. ALL FLOOR FINISH TRANSITIONS SHALL OCCUR AT DOOR SIDE OF STOP U.N.O. TRANSITIONS BETWEEN TILE AND VINYL TILE SHALL OCCUR WITH A ALUMINUM SCHLUTER STRIP.
- E. PROVIDE FINISH SUBMITTALS ON ALL FINISHES FOR REVIEW PRIOR TO PURCHASE THAT DEVIATE FROM ORIGNAL SPEC.
- F. CONTRACTOR TO FURNISH ADDITIONAL MATERIALS (I.E. VINYL PLANKS AND FLOOR/WALL TILE) TO THE OWNER FOR FUTURE USE. ADDITIONAL MATERIALS SHALL BE OF THE SAME PRODUCT RUNS AND/OR DYE LOTS. THE PRODUCTS INSTALLED MATERIALS SHALL BE PACKAGED WITH A PROTECTIVE COVERING AND LABELED.
- G. ALL WALLS TO RECEIVE PAINT AS NOTED (ONE COAT PRIMER AND TWO COATS PAINT)
- I. FLOORING IS TO EXTEND WALL-TO-WALL IN ALL ROOMS, PRIOR TO APPLYING FLOOR BASE.

*ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				NOTES BY NUMBER
				NORTH	EAST	SOUTH	WEST	
117	OFFICE	EXIST.	EXIST.	EXIST.	P-2	EXIST.	EXIST.	
118	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	P-2	
124	WORK AREA	EXIST.	EXIST.	P-1	P-1	P-1	P-1	
127	WORK AREA	CPT-1	B-1	P-1	P-1	P-1	P-1	
128	OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	
129	HALL	CPT-1	B-1	P-1	P-1	P-1	P-1	
130	OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	
131	OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	
133	BREAK	CPT-1	B-1	P-1	P-1	P-1	P-1	
134	STORAGE	CPT-1	B-1	P-1	P-1	P-1	P-1	
135	OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	
136	ENTRY	CPT-1	B-1	P-1	P-1	P-1	P-1	
137	WORK AREA	CPT-1	B-1	P-1	P-1	P-1	P-1	

* ONLY ROOMS NOTED ON SCHEDULE ARE ONES GETTING NEW FINISHES.

NOTE:
ALL INTERIOR FINISHES SHALL MEET OR EXCEED INTERNATIONAL FIRE CODE (IFC) 806.2; AND BE A MINIMUM IFC CLASS C, PER IFC TABLE 806.3.

PROVIDE SHOP DRAWING/SAMPLES OF ALL MATERIALS FOR FINAL REVIEW

ELECTRICAL ABBREVIATIONS			
A	AMPERE	IG	ISOLATED GROUND
AC	ALTERNATING CURRENT OR ABOVE COUNTER	JB	JUNCTION BOX
AFCI	ARC FAULT CIRCUIT INTERRUPTER	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
BKR	BREAKER	NF	NON-FUSED
BPS	BOLTED PRESSURE SWITCH	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CKT	CIRCUIT	NTS	NOT TO SCALE
CLG	CEILING	P	POLE
CU	COPPER	PNL	PANEL BOARD
CT	CURRENT TRANSFORMER	RMS	ROOT MEAN SQUARE
DC	DIRECT CURRENT	ST	SHUNT TRIP
DN	DOWN	SYM	SYMMETRICA
EC	ELECTRICAL CONTRACTOR	SW	SWITCH
EX	EXISTING	SWBD	SWITCHBOARD
EM	EMERGENCY	TYP	TYPICAL
ETR	EXISTING TO REMAIN	UG	UNDERGROUND
FLR	FLOOR	UNO	UNLESS NOTED OTHERWISE
F	FUSE OR FUSED	UPS	UNINTERRUPTIBLE POWER SUPPLY
GEN	GENERATOR	V	VOLTS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMPERES
GFP	GROUND FAULT EQUIPMENT PROTECTION	W	WATTS
GND	GROUND	WP	WEATHERPROOF
HT	HEIGHT	XFMR	TRANSFORMER
HP	HORSEPOWER	Y	WYE
HZ	HERTZ	Z	IMPEDANCE

CONDUIT TYPES	
CONDUIT TYPE FOR EACH LOCATION:	
<u>INDOOR EXPOSED</u> : EMT, IMC, OR RMC.	
<u>INDOOR CONCEALED</u> : EMT, IMC, RMC, METAL CLAD (MC)** / ARMOR CLAD (AC) CABLE**.	
<u>OUTDOOR UNDERGROUND</u> : RMC OR PVC SCHEDULE 40**.	
<u>OUTDOOR ABOVE GROUND (EXPOSED TO WEATHER)</u> : GALVANIZED CORROSION-PROTECTIVE COATING RMC.	
*EXPOSED LOCATIONS INCLUDE BELOW CEILING, SURFACE MOUNT LOCATION SUCH AS MECHANICAL ROOMS, FIRE SPRINKLER ROOMS, ELECTRICAL ROOMS, I.T. ROOMS, PLUMBING ROOMS, AND OTHER SIMILAR ROOMS.	
**WHERE ALLOWED BY LOCAL CODES AND AHJ.	

MEP SHEET LIST		
Sheet Number		Sheet Name
E0.1	NOTE AND LEGEND - ELECTRICAL	
E0.2	SPECIFICATIONS - ELECTRICAL	
E1.1	FLOOR PLAN - ELECTRICAL	

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT	⊕ ⊖	SIMPLEX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
—	CONDUIT IN OR UNDER FLOOR	⊕ ⊖	DUPLEX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
—○—	CONDUIT STUBBED UP	⊕ ⊖	QUADRUPLX RECEPTACLE, WALL/ABOVE CTR/FLR/CEILING
—○—	CONDUIT STUBBED DOWN	⊕ ⊖	GROUND FAULT CIRCUIT INTERRUPTER RCPT.
—	TELEPHONE SYSTEM CONDUIT	⊕ ⊖	GFCI RCPT., WALL/ABOVE CTR
—	CONTINUATION	⊕ ⊖	ISOLATED GROUND DUPLEX RECEPTACLE
H-1,3,5	THREE (3) ONE-POLE CIRCUITS	⊕ ⊖	ISOLATED GROUND QUAD. RECEPTACLE
H-1/3/5	ONE (1) THREE-POLE CIRCUIT	⊕ ⊖	HALF-SWITCHED DUPLEX RECEPTACLE
□	2X4 FLUORESCENT LIGHTING FIXTURE NORMAL/EMERGENCY	⊕ ⊖	POKE-THROUGH DEVICE
□	2X2 FLUORESCENT LIGHTING FIXTURE NORMAL/EMERGENCY	⊕ ⊖	SPECIAL RECEPTACLE AS NOTED
□	1X4 FLUORESCENT LIGHTING FIXTURE	⊕ ⊖	CEILING MOUNTED JUNCTION BOX
□	FLUORESCENT LIGHTING FIXTURE, WALL MTD. NORMAL/EMERGENCY	⊕ ⊖	WALL JUNCTION BOX
□	FLUORESCENT STRIP FIXTURE, NORMAL/EMERGENCY	⊕ ⊖	FURNITURE/EQUIPMENT CONNECTION
□	UNDERCABINET FIXTURE (VERIFY LENGTHS)	⊕ ⊖	POWER POLE
○	RECESSED DOWNLIGHT, NORMAL/EMERGENCY	⊕ ⊖	MULTI-OUTLET ASSEMBLY (PLUGMOLD)
○	PENDANT FIXTURE	⊕ ⊖	PANELBOARD, SURFACE MOUNTED
○	WALL WASHER	⊕ ⊖	PANELBOARD, FLUSH MOUNTED
○	WALL MOUNTED FIXTURE, NORMAL/EMERGENCY	⊕ ⊖	DISTRIBUTION PANEL/SWITCHBOARD
○	WALL PACK FIXTURE, NORMAL/EMERGENCY	⊕ ⊖	WIREWAY
○	LIGHTING TRACK WITH TRACK FIXTURES	⊕ ⊖	METER
○	EXIT LIGHT FIXTURE - FACES & CHEVRONS AS SHOWN	⊕ ⊖	MOTOR CONNECTION
○	WALL MOUNTED EXIT LIGHT FIXTURE	⊕ ⊖	NON-FUSED DISCONNECT SWITCH
○	EMERGENCY BATTERY PACK LIGHT	⊕ ⊖	FUSED DISCONNECT SWITCH, XX-SWITCH RATING, Y-NUMBER OF POLES, ZZAF-FUSE RATING
○	COMBINATION EXIT/EMERGENCY BATTERY PACK LIGHT	⊕ ⊖	MAGNETIC MOTOR STARTER, XX-SIZE INDICATED
○	REMOTE EMERGENCY HEAD	⊕ ⊖	COMB. MAGNETIC STARTER/DISC SWITCH
○	SINGLE POLE TOGGLE SWITCH	⊕ ⊖	VFD
○	THREE-WAY TOGGLE SWITCH	⊕ ⊖	LOW VOLTAGE TRANSFORMER
○	FOUR-WAY TOGGLE SWITCH	⊕ ⊖	GROUND BAR
○	OCCUPANCY/VACANCY SENSOR WALL SWITCH	⊕ ⊖	AUTOMATIC TRANSFER SWITCH
○	MOMENTARY CONTROL SWITCH	⊕ ⊖	PUSHBUTTON
○	MOTOR RATED SWITCH W/THERMAL OVERLOAD	⊕ ⊖	TELEPHONE OUTLET, WALL/ABOVE CTR/FLR/CEILING
○	KEY OPERATED SWITCH	⊕ ⊖	DATA OUTLET, WALL/ABOVE CTR/FLR/CEILING
○	SWITCH WITH TIMER	⊕ ⊖	COMBINATION TELE./DATA OUTLET, WALL/AC/FLR/CLG
○	DIMMER SWITCH	⊕ ⊖	FLOOR TV OUTLET
○	CEILING OCCUPANCY SENSOR	⊕ ⊖	WALL TV OUTLET
○	WALL OCCUPANCY SENSOR	⊕ ⊖	CEILING MOUNTED TV OUTLET
○	TIME CLOCK	⊕ ⊖	TELEPHONE BACKBOARD
○	PHOTOCELL		

NOTE: NOT ALL SYMBOLS MAY APPLY - REFER TO FLOOR PLANS

- ELECTRICAL GENERAL NOTES:**
- A. THESE GENERAL NOTES APPLY TO ALL SHEETS WITHIN THIS CONTRACTOR'S SCOPE OF WORK UNLESS SPECIFICALLY NOTED OTHERWISE.
- B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- C. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG COPPER, UNLESS NOTED OTHERWISE.
- D. ALL 15A AND 20A 120V RUNS LONGER THAN 60' SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON PLANS.
- E. ALL WIRING CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
- F. ALL WIRE CONDUCTORS SHALL BE COPPER UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM WIRE IS ONLY ACCEPTABLE IF AUTHORIZED, IN WRITING, BY ENGINEER, OWNER, AND LOCAL A.H.J.
- G. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- H. ALL ELECTRICAL WIRES SHALL BE ROUTED IN CONDUIT, EMT, UNLESS NOTED OTHERWISE.
- I. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS AND DIMENSIONAL LOCATIONS OF DEVICES PRIOR TO ROUGH-IN AND INSTALLATIONS.
- J. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX AND 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING FOR ALL T-STATS SHOWN ON MECHANICAL PLANS. COORDINATE LOCATIONS OF T-STATS WITH MECHANICAL CONTRACTOR.
- K. FLEXIBLE CONDUIT RUNS SHALL BE LIMITED TO LENGTHS OF SIX FEET UNLESS APPROVED BY ENGINEER IN WRITING.
- L. PROVIDE PULLSTRING FOR ALL EMPTY CONDUITS.
- M. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
- N. ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.
- O. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. OBTAIN OWNER'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPEWRITTEN.
- P. TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, DO NOT MOUNT THE POWER AND/OR TELEPHONE/DATA JUNCTION BOXES BACK TO BACK IN THE SAME STUD CAVITY.
- Q. ALL DEVICES SHALL BE MOUNTED AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- R. ALL RECEPTACLES MOUNTED IN KITCHENS, RESTROOMS, AT COUNTERS CONTAINING SINKS, OUTSIDE THE BUILDING, SERVING VENDING MACHINES, OR WITHIN 6' OF A WATER SOURCE SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER(GFCI) PROTECTION.
- S. ALL DEDICATED CIRCUITS (CIRCUITS SERVING A SINGLE DEVICE) SHALL HAVE DEDICATED NEUTRAL AND GROUND WIRES. THIS REQUIREMENT DOES NOT APPLY TO APPLIANCE CIRCUITS.
- T. PROVIDE 3/4" CONDUIT AND PULLSTRING, FROM EACH WALL MOUNTED TELEPHONE/DATA OUTLET, ROUTE TO +4" ABOVE SUSPENDED CEILING.
- U. PROVIDE 3/4" CONDUIT AND PULLSTRING, FROM EACH FLOOR MOUNTED TELEPHONE/DATA OUTLET TO THE NEAREST WALL THEN ROUTE TO +4" ABOVE SUSPENDED CEILING. AT SYSTEMS FURNITURE FEEDS, CONDUIT SHALL BE 1-1/4".
- V. LOW VOLTAGE CABLES (TELEPHONE, DATA, ETC.) INSTALLED IN CEILING SPACE USED FOR RETURN AIR PURPOSES SHALL BE PLENUM RATED CABLES OR INSTALLED IN CONDUIT.
- W. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. SCHEDULE POWER SHUT DOWN WITH OWNER.
- X. ALL NEW ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER DESIGNATION.
- Y. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
- Z. COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
- AA. REFER TO MECHANICAL/PLUMBING SHEETS FOR EXACT LOCATIONS OF ALL MECHANICAL/PLUMBING EQUIPMENT.
- BB. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.
- CC. TELEPHONE/DATA SUBCONTRACTOR SHALL COORDINATE THE TELEPHONE/DATA INSTALLATION WITH ALL OTHER SUBCONTRACTORS AND SHALL BEAR ANY COST ASSOCIATED FOR THE RELOCATION OF ANY TELEPHONE/DATA INSTALLED WHICH CONFLICTS WITH OTHER CONTRACTORS' EQUIPMENT.
- DD. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT AND COMPONENTS REQUIRING THE ATTENTION OF OTHER CONTRACTORS. THIS INCLUDES, BUT NOT LIMITED TO, CONNECTIONS TO MECHANICAL/PLUMBING/FIRE PROTECTION EQUIPMENT, CONDUIT FOR CONTROL WIRE, FIRE ALARM DEVICES, FIRE SPRINKLERS EQUIPMENT, AND LIGHT FIXTURES LOCATIONS.
- EE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN STORAGE OF EQUIPMENT AND COMPONENTS PRIOR TO INSTALLATION. THIS INCLUDES, BUT NOT LIMITED TO, PROTECTION AGAINST DUST, CORROSION, DIRT, WATER, SUN LIGHT (U.V. RAYS), GENERAL DAMAGE, AND DAMAGE DUE TO ANIMALS.
- FF. CONTRACTOR SHALL INSTALL EQUIPMENT AND COMPONENTS IN SUCH A WAY THAT IT DOES NOT IMPEDE NEW OR EXISTING EQUIPMENT CLEARANCES.
- GG. CONTRACTOR SHALL READ AND FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, AND ASSOCIATED DOCUMENTS.
- HH. PRIOR TO DIGGING FOR UNDERGROUND UTILITY CONNECTIONS, CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED AND MARKED TO AVOID UNNECESSARY OR EMERGENCY UTILITY SHUT-DOWNS.
- II. ALL MATERIALS IN AN OPEN AIR RETURN SPACE SHALL BE PLENUM RATED.
- JJ. ALL EQUIPMENT AND COMPONENTS SHALL U.L. RATED OR APPROVED WHERE APPLICABLE. FOREIGN EQUIPMENT AND COMPONENTS NOT U.L. RATED OR APPROVED WILL NOT BE ACCEPTED.
- KK. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ELECTRIC UTILITY CONNECTION. ELECTRIC UTILITY LOAD SHEET CAN BE OBTAINED BY REQUEST FROM ENGINEER, AS REQUIRED BY ELECTRIC UTILITY COMPANY.



FLOW CONTROL GROUP
203 S JUPITER ROAD ALLEN TEXAS

NOTE AND LEGEND -
ELECTRICAL

DATE _____ ISSUED FOR _____

PROJECT **23019**
SHEET **E0.1**

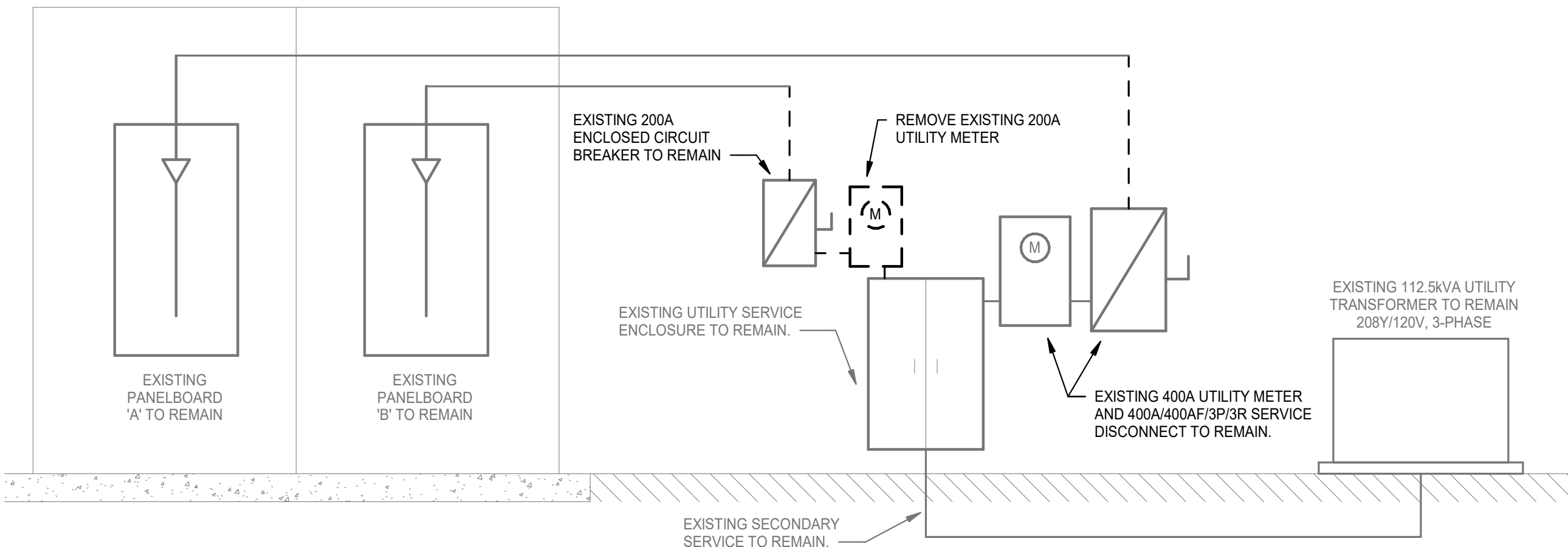


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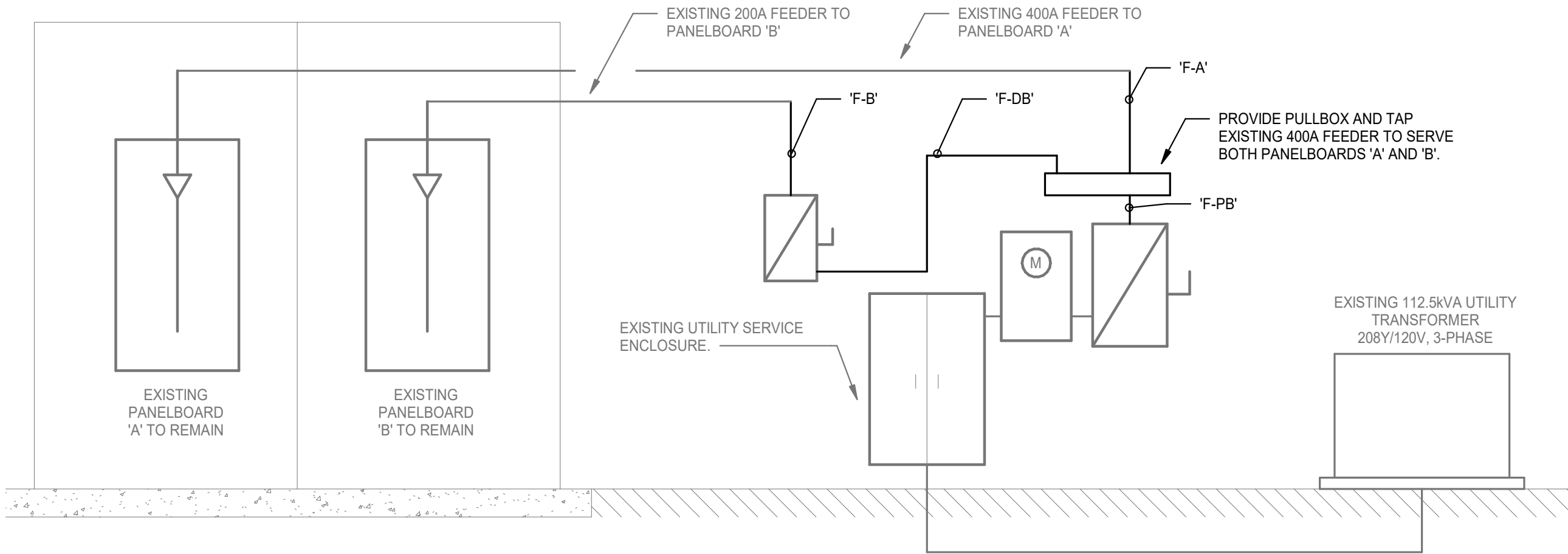
EXISTING SERVICE CALCULATION (NEC 220.87)	
MAXIMUM DEMAND DATA OVER 1-YEAR PERIOD (PER ONCOR ELECTRIC RECORDS):	53 kVA = 147.113 A @ 208Y/120V
x1.25:	66.25 kVA = 183.892 A @ 208Y/120V
PLUS NEW LOAD:	69.37 kVA = 192.552 A @ 208Y/120V
EXISTING 400A SERVICE IS ADEQUATE.	

FEEDER SCHEDULE	
DESIGNATION	DESCRIPTION
F-DA	(4) 500 MCM CU AND #3 CU EGC IN 4" CONDUIT
F-PB	TWO SETS OF (4) #3/0 CU AND #3 CU EGC, EACH SET IN 2-1/2" CONDUIT
F-A	TWO SETS OF (3) #3/0 CU AND #3 CU EGC, EACH SET IN 2" CONDUIT
F-DB	(4) #3/0 CU AND #6 CU EGC IN 2-1/2" CONDUIT
F-B	(3) #3/0 CU AND #6 CU EGC IN 2" CONDUIT
* CONDUCTOR AND CONDUIT SIZES SHOWN ARE MINIMUMS AND FOR GENERAL COORDINATION ONLY. CONTRACTOR SHALL INSTALL RACEWAYS AND CONDUCTORS PER SPECIFICATIONS AND THE NEC AND PERFORM FINAL AMPACITY AND FALL CALCULATIONS.	

AVAILABLE FAULT CURRENT CALCULATIONS					
Feeder Designation	Available Fault Current at Source End (A)	C Value	One-Way Length (ft)	I Value	Available Fault Current at Load End (A)
F-DA	18929	22965	3	0.0206 [0.9798]	18547
F-PB	18547	12844	3	0.0180 [0.9823]	18219
F-A	18219	12844	10	0.0591 [0.9442]	17203
F-DB	18219	12844	5	0.0591 [0.9442]	17203
F-B	17203	12844	134	1.4945 [0.4009]	6896
* CALCULATIONS PERFORMED USING BUSMANN POINT-TO-POINT METHOD. ASSUMPTIONS ARE A 112.5 kVA UTILITY TRANSFORMER WITH 1.5% IMPEDANCE. CONTRACTOR SHALL VERIFY THIS INFORMATION WITH UTILITY COMPANY AND NOTIFY ENGINEER IMMEDIATELY IF TRANSFORMER SIZE IS LARGER, IMPEDANCE IS SMALLER, OR FEEDER LENGTHS ARE SHORTER THAN INDICATED. SIZE FUSE AND EQUIPMENT AIC RATINGS ACCORDINGLY.					



1 EXISTING ELECTRICAL RISER DIAGRAM
NOT TO SCALE



2 NEW ELECTRICAL RISER DIAGRAM
NOT TO SCALE

DIVISION 26 - ELECTRICAL

SECTION 26050 - COMMON WORK RESULTS

PART 1 - GENERAL

- 1.1 GENERAL NOTES
- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 26.
- B. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO OBTAIN A COMPLETE SET OF BID DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND FULLY REVIEW THEM. COORDINATE DIVISION 26 WORK WITH THAT OF ALL OTHER DIVISIONS OF WORK.
- C. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. ANY LABOR OR MATERIAL CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY LABOR OR MATERIAL WHICH IS NEITHER SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY REQUIRED TO COMPLETE THE WORK, AND WHICH IS NORMALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT.
- D. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THIS WORK TO COMPLY WITH THE OWNER'S SCHEDULE AND PROJECT COMPLETION DATE.
- 1.2 SCOPE OF WORK
- A. THE DESCRIPTION OF GENERAL CONDITION WORK IN THIS DIVISION SHALL ALSO APPLY TO DIVISION 28.
- B. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL AND FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED BY JOB CONDITIONS, WORK IS TO BE COMPLETE IN EVERY RESPECT, WHETHER SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS OR NOT.
- C. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER (BUILDING OWNER, LANDLORD OR TENANT), SHALL BE PROVIDED BY THIS CONTRACTOR.
- D. THIS WORK, MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
- a. A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM INCLUDING THE INSTALLATION OF ELECTRICAL PANELBOARDS, TRANSFORMERS, SAFETY AND DISCONNECT SWITCHES, MOTOR STARTERS, VFDs AND LIGHTING. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID FOR PROVIDING SERVICE EQUIPMENT NECESSARY FOR TIE-IN TO OWNER'S DISTRIBUTION EQUIPMENT. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- b. CONTRACTOR MUST ALSO INCLUDE IN BID ALL NECESSARY MATERIALS REQUIRED TO COMPLETE THE SYSTEM INCLUDING, BUT NOT LIMITED TO, FEEDERS, BRANCH CIRCUITS, JUNCTION BOXES, OUTLET BOXES, WIRING DEVICES, COVER PLATES, CONDUITS, ETC.
- c. METERING REQUIRED PER DRAWING AND/OR OWNER.
- d. THE WIRING OF MECHANICAL EQUIPMENT SHALL BE AS OUTLINED ON THE BID SET DRAWINGS AND IN THE SPECIFICATIONS. WORK SHALL INCLUDE WIRING OF ALL STARTERS, DISCONNECTS, VFDs, AND POWER WIRING OF MECHANICAL EQUIPMENT EXCEPT AS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE (24 VOLTS) EMS TEMPERATURE CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR UNLESS NOTED SPECIFICALLY ON DRAWING.
- e. INSTALLATION OF LIGHT FIXTURES AND LAMPS AS SHOWN ON THE DRAWINGS INCLUDING ALL DEVICES, EQUIPMENT, ETC. REQUIRED FOR MOUNTING.
- f. A COMPLETE CONDUIT SYSTEM FOR TELEPHONE/DATA INCLUDING BRANCH CONDUITS, OUTLET BOXES, PULL WIRES, GROUND CONDUITS, COVER PLATES, ETC. OR AS SPECIFICALLY NOTED ON THE DRAWINGS.
- g. A COMPLETE EMERGENCY AND EXIT LIGHTING SYSTEM AS SHOWN ON THE DRAWINGS.
- h. TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION, INCLUDING ITS REMOVAL.
- i. SMOKE/FIRE ALARM WIRING, DEVICES AND CONDUIT, AS DESCRIBED ON DRAWINGS OR AS NECESSARY TO MEET OWNER, STATE, LOCAL, INSURANCE AND FIRE DEPARTMENT REQUIREMENTS.
- j. INSTALLATION OF CONDUITS STUBBED TO ABOVE CEILING FOR HVAC CONTROLS AND FLOOR LOADS.
- k. BALANCING LOADS.
- E. WORK NOT INCLUDED - THE FOLLOWING ITEMS OF ELECTRICAL CONSTRUCTION ARE NOT INCLUDED IN THIS CONTRACT.
- a. TELEPHONE INSTRUMENTS AND WIRING UNLESS NOTED OTHERWISE.
- b. DATA CABLE WIRING UNLESS NOTED OTHERWISE.

1.3 CODES

- A. ALL WORK SHALL CONFORM TO THE OWNER'S CRITERIA, STATE, COUNTY, CITY AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS AWARDED, CHANGE ORDERS FOR INCREASED COSTS DUE TO CODE ISSUES WILL NOT BE ACCEPTED UNLESS ALLOWANCES HAVE BEEN PREVIOUSLY AGREED UPON.
- B. WHERE THE DRAWINGS AND SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODE OR THE OWNER'S CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS.

1.4 LICENSES, PERMITS, INSPECTION AND FEES

- A. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO THIS WORK. ALL COSTS ASSOCIATED WITH THESE SHALL BE PAID FOR BY THE CONTRACTOR AND INCLUDED AS PART OF THE BID.
- B. FURNISH TO THE OWNER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT THE COMPLETION OF THE PROJECT.

1.5 GUARANTEE

- A. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE (OFFICIAL DATE IN WRITING) OF THE PROJECT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- B. WHERE SPECIFIC EQUIPMENT IS NOTED TO HAVE EXTENDED WARRANTIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REGISTRATION SO THE OWNER CAN MAKE ALL APPROPRIATE CLAIMS.

1.6 RECORD DRAWINGS

- A. THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOBSITE, UPDATED WEEKLY, TO RECORD ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS SUCH AS:
- a. LOCATIONS OF CONCEALED CONDUITS
- b. PANEL DESCRIPTIONS, CIRCUIT DIRECTORIES AND LABELS
- c. REVISIONS, ADDENDUMS AND CHANGE ORDERS
- d. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTORS' COORDINATION WITH OTHER TRADES.
- B. DELIVER RECORD DRAWINGS TO THE OWNER AT PROJECT COMPLETION.

1.7 DEMOLITION

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK, AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ALL EXISTING EQUIPMENT REQUIRED TO BE LEFT INTACT.
- B. THIS CONTRACTOR SHALL INCLUDE, AND WILL BE RESPONSIBLE FOR, THE REMOVAL OF ALL EXISTING CONDUIT, FIRE ALARM SYSTEM, SWITCH GEAR, AND EQUIPMENT, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR MUST VERIFY WITH THE OWNER ALL PRESUMED ABANDONED EQUIPMENT, CONDUIT AND SWITCH GEAR PRIOR TO REMOVAL. EXISTING ABANDONED CONDUIT OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE, OR OTHERWISE INACCESSIBLE, ARE TO BE CUT OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT. IF REQUIRED BY OWNER OR CODES, ABANDONED CONDUIT MUST BE REMOVED TO POINT OF ORIGIN, CONFIRM EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE PROPOSAL.

1.8 TEMPORARY LIGHT AND POWER

- A. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING AND RELATED GROUND FAULT INTERRUPTION PROTECTION FOR LIGHT AND POWER FOR ALL CONTRACTORS DURING CONSTRUCTION AND IS RESPONSIBLE FOR ITS REMOVAL.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- A. MATERIALS UTILIZED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND CARRY ALL UL LABELS WHERE APPLICABLE, UNLESS APPROVED BY THE OWNER.
- B. ANY USED EQUIPMENT OR MATERIALS USED SHALL STILL CARRY THE SPECIFIED 1 YEAR GUARANTEE AND APPROVAL OF THE USE OF THIS EQUIPMENT OR MATERIALS DOES NOT RELIEVE THE CONTRACTOR FROM ENSURING EVERYTHING IS OPERATIONAL.
- 2.2 MANUFACTURERS
- A. WHERE TRADE NAMES OR MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE CONSIDERED THE BASIS OF DESIGN AND USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED, WILL BE SUBJECT TO APPROVAL IN WRITING BY THE ENGINEER THROUGH THE SHOP DRAWING SUBMITTAL PROCESS, FOR ACCEPTANCE PRIOR TO INSTALLATION. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 2.3 SLEEVES
- A. PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2 INCHES ABOVE THE FLOOR.
- B. CONTRACTOR SHALL COORDINATE THROUGH THE GENERAL CONTRACTOR AND OWNER ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY WALLS OR CONCRETE FLOORS.
- C. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE FIRE SEALED. REFER TO "FIRE STOPPING".
- D. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE MINIMUM NO. 22 USG GALVANIZED STEEL.
- 2.4 FLAME SPREAD PROPERTIES OF MATERIALS
- A. MATERIALS USED ON THIS PROJECT SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.
- 2.5 FIRE STOPPING
- A. PROVIDE FIRE STOPPING IN SEALING OF PENETRATIONS IN FIRE-RATED CONSTRUCTION, HORIZONTAL AND VERTICAL, INCLUDING THE FOLLOWING MATERIALS:

- a. FOAM: DOW CORNING FIRESTOP SILICONE RTV FOAM, CAT #2001 LIQUID COMPONENT PART A (BLACK) AND LIQUID COMPONENT PART B (OFF WHITE).
- b. SEALANT: 3M 1000 NS AND 1001 SL SILICONE ADHESIVE SEALANT.
- c. DAMMING MATERIALS: MINERAL FIBERBOARD, AS SELECTED BY THE APPLICATOR.

- B. MIXES SHALL CONFORM TO THE MANUFACTURER'S DIRECTIONS.
- 2.6 FLOOR, CEILING AND WALL PLATES
- A. PROVIDE CHROME-PLATED, ONE-PIECE, ESCUTCHEONS ON CONDUITS AND HANGER RODS PENETRATING THE WALLS, FLOORS, AND CEILINGS IN FINISHED AREAS OF THE BUILDING. SPLIT RING ESCUTCHEONS ARE NOT ACCEPTABLE.
- 2.7 EQUIPMENT FOUNDATIONS AND SUPPORTS
- A. PROVIDE FOUNDATIONS AND SUPPORTS FOR ELECTRICAL EQUIPMENT AS REQUIRED. THESE SHALL INCLUDE REINFORCED CONCRETE HOUSEKEEPING PADS FOR ANY DISTRIBUTION EQUIPMENT INSTALLED INDOORS ON THE FLOOR. PADS SHALL EXTEND A MINIMUM OF 3 INCHES BEYOND EQUIPMENT IN ALL DIRECTIONS.

PART 3 - EXECUTION

- 3.1 SPACE AND EQUIPMENT ARRANGEMENT
- A. EACH CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT THEIR PURCHASED EQUIPMENT WILL FIT THE SPACES AVAILABLE. IN CERTAIN INSTANCES HE WILL NOTE THAT THE EQUIPMENT IS MENTIONED BY NAME IN THE EQUIPMENT SCHEDULES. IN THESE CASES IT IS THAT EQUIPMENT WHOSE DIMENSIONS AND CONNECTION ARRANGEMENTS HAVE BEEN USED FOR THE PREPARATION OF THE LAYOUTS SHOWN ON THE WORKING DRAWINGS. SHOULD THE USE OF EQUIPMENT BY OTHER APPROVED MANUFACTURERS OR OF OTHER PHYSICAL SHAPE THAN THOSE SHOWN ON THE DRAWINGS BE NECESSARY, THE CONTRACTOR SHALL ADVISE THE ARCHITECT. THE EQUIPMENT WILL FIT WITHIN THE ALLOTTED SPACE WITHOUT ARCHITECTURAL MODIFICATIONS OR IMPACT ON OTHER TRADES.
- B. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. PROVIDE SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT.
- C. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING PLANS, SHOP DRAWINGS, AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE ELECTRICAL SYSTEM TO AVOID INTERFERENCES AND CONFLICTS.
- 3.2 MANUFACTURER'S DIRECTIONS
- A. THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION, AND WIRING OF ALL EQUIPMENT AND MATERIAL. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY CONFLICT BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS, AND SHALL OBTAIN INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK BEFORE RECEIVING SUCH INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CONNECTIONS WITH THE DEFICIENCIES.

3.3 CONSTRUCTION REQUIREMENTS

- A. THE DRAWINGS AND SPECIFICATIONS SHOW EQUIPMENT CONNECTIONS, CONDUIT, AND WIRE SIZE, GENERAL ROUTING AND LOCATION, AND DESCRIBE THE VARIOUS SYSTEMS. THESE DOCUMENTS DESCRIBE AND SIZE EQUIPMENT, ITS GENERAL LOCATION, USAGE, SUPPORT, AND AUXILIARY REQUIREMENTS. THEY DESCRIBE MOST, BUT NOT ALL OF THE MATERIALS AND THEIR USAGE FOR THIS PROJECT.
- B. CONTRACT DOCUMENTS DO NOT DETAIL ALL JOB REQUIREMENTS. THEY DO NOT SHOW LAYOUTS, LOCATIONS, OR ELEVATIONS OF CONDUITS, ANCHORS, SLEEVES, HANGERS, JUNCTION BOXES, OR ACCESS DOORS. THEY DO NOT SHOW FINAL PRECISE LOCATIONS OF EQUIPMENT BY DIMENSIONS IN ALL INSTANCES.
- C. THE EXACT LOCATION OF EACH ITEM SHALL BE DETERMINED BY REFERENCE TO THE PROJECT CONTRACT DRAWINGS, AND TO DETAILS, EQUIPMENT DRAWINGS, AND ROUTING DRAWINGS. BY MEASUREMENTS AT THE BUILDING, AND IN COOPERATION WITH THE VARIOUS TRADES. MINOR RELOCATION NECESSITATED BY THE CONDITIONS AT THE SITE OR DIRECTED BY THE OWNER SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. WHERE CONFLICTS OCCUR, WORK IN THE AREA INVOLVED.
- 3.4 EQUIPMENT FOUNDATIONS, HANGERS AND SUPPORTS
- A. FOR FLOOR MOUNTED ELECTRICAL EQUIPMENT, PROVIDE CONCRETE HOUSEKEEPING PADS NOT LESS THAN 3-1/2 INCHES THICK REINFORCED WITH NO. 3 DOWELS AND NO. 3 BARS, 2 FEET-0 INCHES ON CENTER EACH WAY.
- B. SUSPENDED EQUIPMENT SHALL HAVE SUPPORTS CONSISTING OF MANUFACTURED METAL FRAMING OR HANGERS CONFORMING TO SECTION 26050.
- 3.5 INSTRUCTIONS TO OWNERS PERSONNEL
- A. PROVIDE THE SERVICES OF COMPETENT ENGINEERS OR TECHNICIANS TO INSTRUCT REPRESENTATIVES OF THE OWNER IN COMPLETE AND DETAILED OPERATION AND MAINTENANCE OF EACH ITEM OF EQUIPMENT AND EACH SYSTEM.
- B. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROPER MAINTENANCE OF EQUIPMENT AND SYSTEMS UNTIL THE INSTRUCTIONS HAVE BEEN GIVEN TO THE OWNER'S PERSONNEL AND THE LETTER OF RELEASE ACKNOWLEDGED.
- C. PROVIDE OPERATION & MAINTENANCE MANUALS (3 COPIES), ALONG WITH AS-BUILT SET OF PRINTS PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT.

3.6 ELECTRICAL WIRING OF MOTORS

- A. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL DISCONNECT SWITCHES AND MOTOR CONTROLS AS REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT, UNLESS SUCH EQUIPMENT IS SPECIFIED TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCHES, STARTERS, OR VFDs. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- B. THE MECHANICAL AND PLUMBING DESIGN AND DRAWINGS ARE BASED ON THE EQUIPMENT SCHEDULED AND SHOWN ON THE DRAWINGS. SHOULD ANY CONTRACTOR SUBMIT FOR APPROVAL EQUIPMENT REQUIRING CHANGES TO THE MECHANICAL AND PLUMBING DESIGN FOR WHICH THE MECHANICAL OR PLUMBING CONTRACTOR WILL REQUEST AN EXTRA, THIS EXTRA SHALL BE PAID BY THE CONTRACTOR PROVIDING THE ALTERNATE EQUIPMENT REQUIRING THE CHANGE.
- C. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL WORK TO BE INCLUDED IN HIS BID.
- D. ELECTRICAL CONTRACTOR SHALL DO ALL POWER WIRING, LINE VOLTAGE WIRING, AND LINE VOLTAGE CONTROL WIRING INDICATED UNDER THE HEATING, VENTILATION AND AIR CONDITIONING, PLUMBING, AND FIRE PROTECTION SPECIFICATIONS AND DRAWINGS. THIS CONTRACTOR SHALL ALSO DO ALL INTERCONNECTING LINE VOLTAGE WIRING BETWEEN RELAYS AND SWITCHES AS REQUIRED.
- E. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING CONDUIT FOR HVAC CONTROL WIRING WHERE REQUIRED BY CODE OR SHOWN ON PRINTS TO BE IN CONDUIT. REFER TO PLANS FOR REQUIREMENTS AND SIZES.
- F. FIRE DAMPERS SHALL BE WIED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR POWER REQUIREMENTS.

- 3.7 QUIET OPERATION
- A. THIS WORK SHALL BE INSTALLED IN SUCH A MANNER THAT UNDER ALL CONDITIONS OF LOAD IT SHALL OPERATE WITHOUT SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OCCUPIED SPACES IN THE OPINION OF THE OWNER. IN THE CASE OF MOVING MACHINERY, SOUND OR VIBRATION ANNOYINGLY NOTICEABLE INSIDE ITS OWN ROOM CAN BE CONSIDERED AS OBJECTIONABLE. IN ANY CASE, THE SITUATION SHALL BE REMEDIED AT NO COST TO THE OWNER.
- 3.8 CUTTING AND PATCHING
- A. PROVIDE CUTTING, CHASING AND CHANNELING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL FROM ARCHITECT AND OWNER.
- B. ALL PATCHING SHALL BE BY THE GENERAL CONTRACTOR AND SHALL MATCH THE SURROUNDING SURFACES.

3.9 TESTS

- A. THE CONTRACTOR INSTALLING THE ELECTRICAL SYSTEMS SHALL FOLLOW ALL TESTS AS REQUIRED TO PROVE COMPLIANCE WITH ALL LOCAL CODES.

END OF SECTION.

SECTION 26051 - CONDUCTORS

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

- 2.1 SINGLE CONDUCTORS
- A. CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS. MINIMUM WIRE SIZE #12 UNLESS NOTED OTHERWISE ON PLAN OR IN GENERAL NOTES FOR VOLTAGE DROP. THE CONDUCTORS SHALL BE 600 VOLT INSULATION, TYPE THW, THWN OR THHN.
- B. CONDUCTORS MAY BE STRANDED FOR SIZES #10 AWG AND LARGER. CONDUCTOR SIZE #12 SHALL BE SOLID (NOT STRANDED).
- C. ALUMINUM CONDUCTORS ARE NOT PERMITTED. CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM GENERAL CONTRACTOR AND ENGINEER WHEN USED.
- 2.2 MULTICONDUCTOR CABLES
- A. PROVIDE TYPE MC MULTICONDUCTOR CABLE IN COMPLIANCE WITH NEMA WC 70, WITH METAL CLAD AND GROUND WIRE.
- 2.3 CONNECTORS
- A. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER. USE T&B "LOCKTIGHT" FOR #6 AWG WIRE AND LARGER.
- PART 3 - EXECUTION
- 3.1 APPLICATIONS AND INSTALLATION
- A. ALL WIRING SHALL BE IN CONDUIT, UNLESS NOTED OTHERWISE (IE-LOW VOLTAGE PLENUM RATED).
- B. THE USE OF SHARED NEUTRALS IS REQUIRED FOR LIGHTING CIRCUITS AND ALLOWED PER DRAWING NOTES. IT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND LOCAL CODES.
- C. THE USE OF ROMEX, BX, ETC. IS NOT PERMITTED.
- D. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
- 120/208 VOLT SYSTEM
- NEUTRAL - WHITE
- PHASE A OR L1 - BLACK
- PHASE B OR L2 - RED
- PHASE C OR L3 - BLUE
- GROUND - GREEN
- ISOLATED GROUND - GREEN WITH YELLOW TRACER

277/480 VOLT SYSTEM

NEUTRAL - GRAY

- PHASE A OR L1 - BROWN
- PHASE B OR L2 - ORANGE
- PHASE C OR L3 - YELLOW
- GROUND - GREEN WITH YELLOW TRACER
- E. UNLESS NOTED OTHERWISE, MC CABLE IS ONLY ALLOWED WITHIN PARTITIONS OR MILL WORK AND LOCATIONS DESCRIBED IN SECTION 26053.

END OF SECTION.

SECTION 26052 - GROUNDING

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

- 2.1 CONDUCTORS AND JUMPERS
- A. ALL CONDUIT, INCLUDING FLEXIBLE CONDUIT, SHALL BE GROUNDED WITH A GREEN COPPER GROUNDING CONDUCTOR.
- B. GROUNDING CONNECTIONS MADE TO THE WATER PIPING SYSTEM SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR AND A BONDING JUMPER INSTALLED ABOVE WATER METER PER CODES AND AS INDICATED ON DRAWING.
- C. ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM. USE A BONDING JUMPER BETWEEN THE OUTLET BOX AND THE DEVICE GROUNDING TERMINAL. METAL-TO-METAL CONTACT BETWEEN THE DEVICE YOE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES. ALL JUNCTION BOXES, OUTLET BOXES, AND PULL BOXES SHALL BE BONDED TO THE CONDUIT SYSTEM.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. RUN A SEPARATE ISOLATED GROUNDING CONDUCTOR, #12 AWG MINIMUM, IN EACH CONDUIT FEEDING ISOLATED GROUND RECEPTACLES AND OTHER COMPLETED EQUIPMENT AS SHOWN ON DRAWINGS.
- B. THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION, AND WIRING OF ALL EQUIPMENT AND MATERIAL. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY CONFLICT BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS, AND SHALL OBTAIN INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK BEFORE RECEIVING SUCH INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CONNECTIONS WITH THE DEFICIENCIES.

END OF SECTION.

SECTION 26052 - HANGERS AND SUPPORTS

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

- 2.1 STEEL SLOTTED SUPPORTS
- A. HOT-DIP GALVANIZED AFTER FABRICATION OF DIMENSIONS REQUIRED FOR THE SIZE OF SUPPORTED ITEMS AND ANTICIPATED LOAD.
- B. RACEWAY AND CABLE SUPPORTS AS DESCRIBED IN NECA 1 AND 101.
- C. USE STEEL HANGERS, CLAMPS AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAYS TO BE SUPPORTED.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
- B. HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT CONDUIT, THE CONTRACTOR MUST INSTALL TRAPEZ TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO OTHER SYSTEMS AND EQUIPMENT. HANGER TYPES AND INSTALLATION METHODS ARE ALSO SUBJECT TO OWNER CRITERIA.
- C. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

END OF SECTION.

SECTION 26053 - RACEWAYS AND BOXES

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.
- B. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONING, PLUMBING EQUIPMENT, TELEPHONE, DATA, AUDIO/VISUAL, SECURITY, AND ELECTRICAL EQUIPMENT.

PART 2 - PRODUCTS

- 2.1 RACEWAYS
- A. ALL CONDUITS SHALL BE GALVANIZED IMC, EMT OR MC TYPE UNLESS OTHERWISE SPECIFIED IN SPECIFICATIONS OR ON DRAWINGS. ALL CONDUIT IS TO BE UL LABELED.
- a. EMT CONNECTORS SHALL BE STEEL COMPRESSION OR SET SCREW TYPE.
- b. CONDUIT UNDER SLAB ON GRADE SHALL BE RIGID STEEL OR SCHEDULE 40 PVC WITH RIGID STEEL ELBS WHERE PERMITTED BY OWNER OR CODE.
- B. MINIMUM SIZE OF CONDUIT SHALL BE:
- a. 3/4 INCH FOR INDIVIDUAL LIGHTING FIXTURE CONNECTIONS OR TO INDIVIDUAL LIGHT SWITCHES AND 3/4 INCH FOR ALL OTHER LIGHTING AND POWER CIRCUITING.
- b. IF HVAC CONTROL WIRING IS REQUIRED TO BE RUN IN CONDUIT, IT SHALL BE A MINIMUM OF 3/4 INCH, UNLESS NOTED OTHERWISE ON DRAWINGS.
- C. ALL UNDER FLOOR CONDUIT SHALL BE OF MINIMUM 3/4 INCH SIZE.
- 2.2 OUTLET BOXES
- A. ALL OUTLET BOXES SHALL BE GALVANIZED PRESSED STEEL OF THE STANDARD KNOCKOUT TYPE. CONTROL EQUIPMENT.
- B. ALL OUTLET BOXES SHALL BE PERMITTED UNLESS INDICATED AND FOR LIGHTING THAT REQUIRE SUCH CONFIGURATION. CONCEALED BOXES SHALL NOT BE LESS THAN 4 INCH SQUARE AND 1 1/2 INCH DEEP, WITH PLASTER RINGS.
- C. ALL KNOCKOUT BOXES, UPON WHICH LIGHTING FIXTURES ARE TO BE INSTALLED, SHALL BE EQUIPPED WITH 3/8 INCH FIXTURE STUDS.

- 2.3 JUNCTION AND PULL BOXES
- A. BOXES AND COVERS SHALL BE GALVANIZED STEEL OF CODE GAUGE AND SIZE.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. SUPPORT ALL CONDUIT IN ACCORDANCE WITH THE NEC AND LOCAL CODES.
- B. GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY TENANT'S PROJECT MANAGER. PAINTING OF CONDUITS, NOTED ON DRAWINGS OR SPECIFICATIONS WILL BE BY GENERAL CONTRACTOR.
- C. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE FLEXIBLE CONDUIT OR MC TYPE CABLE SHALL BE USED FOR THE FOLLOWING APPLICATIONS:
- a. FINAL CONNECTIONS TO MOTORS
- b. FINAL CONNECTIONS INTO AND OUT OF THE TRANSFORMER
- c. FINAL CONNECTIONS TO VIBRATING EQUIPMENT
- d. INTER-CONNECTIONS BETWEEN ALL LIGHT FIXTURES
- e. FINAL CONNECTIONS WHERE RIGID CONDUIT IS NOT PRACTICAL.
- f. IN WALLS (FOR LIGHT SWITCHES AND 120 VOLT POWER RECEPTACLES AND HVAC CONTROL EQUIPMENT).
- D. FLEXIBLE METAL CONDUIT MUST BE THE SAME SIZE AS THE IMC OR EMT CONDUIT TO WHICH IT IS CONNECTED. THE FLEXIBLE METAL CONDUIT AND ITS FITTINGS ARE TO BE LISTED FOR GROUNDING. A GREEN GROUNDING CONDUCTOR SHALL BE INSTALLED. ALL CONNECTORS ARE TO BE OF A NEMA APPROVED TYPE.
- E. THE USE OF ROMEX, BX, ETC. IS NOT PERMITTED.
- F. PROVIDE PULL-WIRE IN ALL EMPTY CONDUITS EXCEPT AS NOTED OTHERWISE ON DRAWINGS.
- G. HOME RUNS AND MAIN CONDUIT RUNS ARE TO BE HELD TIGHT TO STRUCTURE ABOVE OR AS REQUIRED TO ALLOW PROPER SERVICE ACCESS AND OTHER TRADES WORK. CONDUIT MUST BE TRAPZED TO ALLOW 1- FEET MINIMUM CLEARANCE ABOVE CEILING.
- H. ALL CONDUITS MUST BE SIZED PER NEC AND LOCAL CODES.
- I. INSTALL BOXES RIGIDLY FROM BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE SUITABLE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF FLOORS, CEILINGS, WALLS, ETC. ALL OUTLET BOXES TO BE PROVIDED WITH CADDY "QUICK-MOUNT BOX SUPPORT" TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.
- J. UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE NATIONAL ELECTRIC CODE, HANDICAP CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS:
- a. SWITCH HEIGHTS IN FINISHED AREAS SHALL BE 48 INCHES ABOVE FINISHED FLOOR.
- b. CONVENIENCE OUTLETS - 18 INCHES FROM FINISHED FLOOR TO CENTERLINE OF OUTLET
- c. TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS
- K. ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHALL BE LIMITED TO LOCATIONS NEAR ACCESS POINTS USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS.
- L. JUNCTION AND PULL BOXES MUST BE LABELED WITH CIRCUIT NUMBER IDENTIFICATION AND SYSTEM TYPE ON COVER.
- M. JUNCTION AND PULL BOXES MUST BE ACCESSIBLE ACCORDING TO NEC 314.26. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ACCESS PANEL SPECIFICATION IF NEEDED.
- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. FURNISH AND INSTALL A SYSTEM OF CONDUIT RACEWAYS, OUTLET BOXES AND PULL WIRES AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED ON PLANS. TELEPHONE SWITCHING APPARATUS, CONDUCTORS, INSTRUMENTS, MISCELLANEOUS EQUIPMENT AND APPURTENANCES ARE NOT PART OF THIS CONTRACT.

- B. OUTLET BOXES ARE TO BE 4 INCH SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE BOXES ARE TO BE 6 INCH SQUARE MINIMUM WITH SINGLE DEVICE COVER AND
- C. ALL PULL WIRES ARE TO BE LABELED FOR PURPOSE DESIGNATED.

END OF SECTION.

SECTION 26055 - IDENTIFICATION

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

- 2.1 EQUIPMENT LABELS
- A. MULTILAYER, MULTICOLOR PLASTIC LABELS WITH MECHANICAL ENGRAVING, FOR ATTACHMENT TO EQUIPMENT.
- 2.2 CONDUCTORS
- A. REFER TO SECTION 260519
- B. PROVIDE SELF-ADHESIVE VINYL LABELS THAT ARE PREPRINTED.

PART 3 - EXECUTION

3.1 LABELING

- A. ALL EQUIPMENT (INCLUDING BUT NOT LIMITED TO PANELBOARDS, SWITCHBOARDS, DISTRIBUTION BOARDS, UPSs, PDCs, MOTORS, TRANSFORMERS, DISCONNECT SWITCHES) SHALL BE IDENTIFIED BY LABELING EQUIPMENT NAME AND RATED VOLTAGE.
- B. ALL BRANCH CIRCUIT WIRING DEVICES SHALL BE LABELED WITH CIRCUIT NUMBER.
- C. ALL JUNCTION BOXES ABOVE CEILING AND BELOW RAISED FLOOR SHALL BE LABELED WITH CIRCUIT NUMBER.

END OF SECTION.

SECTION 26246 - PANELBOARDS

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

2.1 PANELBOARDS

- A. ALL PANELBOARDS SHALL BE FACTORY ASSEMBLED OF THE BOLTED CIRCUIT BREAKER TYPE WITH SOLID COPPER BUSSING, FULL SIZE COPPER NEUTRAL, 100 PERCENT GROUND BUSSING, AND OVERALL HINGED LOCKABLE DOOR. ALL CIRCUIT BREAKERS SHALL BE OF THE QUICK-MAKE AND QUICK-BREAK DESIGN, THERMAL-MAGNETIC TYPE, TRIP FREE AND TRIP-INDICATING. ALL PANELS SHALL BE DEAD FRONT AND FLUSH OR SURFACE MOUNTED AS SHOWN.
- B. PANELBOARDS SHALL HAVE A MINIMUM SHORT CIRCUIT CURRENT RATING AND LUG CONNECTIONS AS REQUIRED BY A SHORT CIRCUIT STUDY.
- C. ALL LUG CONNECTIONS TO BE 75 DEGREE CRATED.
- D. PROVIDE ISOLATED GROUND BUS AND DOUBLE NEUTRAL BUS WHERE INDICATED ON THE DRAWINGS.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. REFER TO DRAWINGS FOR FLUSH OR SURFACE MOUNTING.

END OF SECTION.

SECTION 26272 - WIRING DEVICES

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

2.1 SWITCHES AND RECEPTACLES

- A. FURNISH AND INSTALL SWITCHES AND RECEPTACLES, UNLESS NOTED OTHERWISE, AS NECESSARY FOR A COMPLETE INSTALLATION. COLOR OF DEVICES AND PLATES SHALL BE SELECTED BY THE ARCHITECT.
- B. THE DEVICES SHALL BE OF THE TYPES AND RATINGS LISTED, OR EQUALS BY PASS & SEYMOR, HUBBELL, OR LEVITON.
- a. SINGLE POLE SWITCHES: 20AMP - 120-277V: LEVITON 'DECORA' #5621-X
- b. THREE WAY SWITCHES: 20AMP - 120-277V: LEVITON 'DECORA' #5623-X
- c. DUPLEX RECEPTACLES: 20AMP - 125V: LEVITON 'DECORA' #16352-X
- d. ISOLATED GROUND RECEPTACLES: 20AMP - 125V: LEVITON 'DECORA' #16352-IG
- e. GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES: 20AMP - 125V: LEVITON 'DECORA' #899
- C. ALL DEVICE COVER PLATES SHALL BE LEVITON 'DECORA' NYLON STYLE.
- 2.2 WALL-BOX DIMMERS
- A. DIMMERS SHALL BE LEVITON 'MONET' OR LUTRON 'NOVA-T-STAR'.
- 2.3 OCCUPANCY CONTROLS
- A. WALL-SWITCH SENSORS SHALL BE OF THE PASSIVE INFARED TYPE DESCRIBED ON THE DRAWINGS WITH ADJUSTABLE TIME DELAY AND FIELD OF VIEW AND COVERAGE REQUIRED FOR THE INSTALLATION.
- B. ALL CALL OUT THE DRAWINGS FOR PASSIVE INFARED, ULTRASONIC AND DUAL TECHNOLOGY OCCUPANCY SENSORS REQUIRED FOR LARGER SPACES, PROVIDE A COMPLETE SYSTEM INCLUDING SENSORS, POWER PACKS/RELAYS AND WALL OVERRIDE SWITCHES.
- 2.4 FLOOR BOXES
- A. REFER TO THE DRAWINGS FOR DESCRIPTION OF REQUIRED FLOOR BOXES IN SLAB ON GRADE OR POKE-THRU INSTALLATIONS.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. INSTALL DEVICES PER THE MANUFACTURER'S RECOMMENDATIONS.
- B. LABEL ALL RECEPTACLES INDICATING PANELBOARD AND CIRCUIT NUMBER. INSTALL LABEL ON THE FACE OF WALL PLATE.

END OF SECTION.

SECTION 262816 - ENCLOSED SWITCHES

PART 1 - GENERAL

- 1.1 SCOPE OF WORK
- A. REFER TO SECTION 26050.

PART 2 - PRODUCTS

2.1 SAFETY SWITCHES

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GENERAL NOTES

- A. REFER TO E0.1 FOR ADDITIONAL GENERAL NOTES.
- B. FINISH COLOR OF ALL WIRING DEVICES AND COVERPLATES SHALL BE COORDINATED WITH OWNER AND ARCHTIECT.
- C. ALL DEVICES IN BOLD ARE NEW, ALL OTHER DEVICES ARE EXISTING TO REMAIN.

KEYNOTE LEGEND

- 1 CONNECT NEW RECEPTACLE TO EXISTING BRANCH CIRCUIT SERVING EXISTING RECEPTACLES WITHIN THIS ROOM. CONTRACTOR SHALL CONFIRM NO MORE THAN 9 RECEPTACLES ARE ON A SINGLE BRANCH CIRCUIT.
- 2 EXISTING POWER AND DATA WIRING DEVICES LOCATED ON DEMO WALL SHALL BE REMOVED. REMOVE ASSOCIATED UNUSED BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE OF SUPPLY. CONTRACTOR SHALL WIRE BRANCH CIRCUITS SUCH THAT REMAINING DEVICES ON SAME CIRCUIT REMAIN FUNCTIONAL.
- 3 RELOCATE EXISTING THERMOSTAT TO OPPOSITE WALL.
- 4 PROVIDE NEW DEDICATED 120V 20A/1P BRANCH CIRCUIT FROM PANELBOARD 'B' TO SERVE NEW COPIER.
- 5 CONTRACTOR SHALL PROVIDE POWER FOR OWNER-PROVIDED FURNITURE SYSTEM. CONFIRM FINAL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT RFI TO ARCHITECT/ENGINEER IF FURNITURE SYSTEM REQUIRES MORE THAN A SINGLE 20A/1P 120V BRANCH CIRCUIT.
- 6 LOCATION OF EXISTING MAIN ELECTRICAL SERVICE EQUIPMENT. REFER TO E0.1 FOR ADDITIONAL INFORMATION.

