PARD CAMPUS

8203 MILLENNIUM FOREST, THE WOODLANDS, TX 77381

A PROJECT FOR

THE WOODLANDS TOWNSHIP

GENERAL NOTES

1. STATEMENT OF COMPLIANCE: THE ATTACHED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED, OR CAUSED TO BE PREPARED, UNDER THE ARCHITECT'S DIRECT SUPERVISION. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE AND BELIEF, AND TO THE EXTENT OF CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT INCLUDING STATE/LOCAL ACCESSIBILITY CODES, AS APPLICABLE.

2. THE DOCUMENTS ARE TO BE CONSIDERED A WHOLE PACKAGE AND SHALL NOT BE BROKEN OUT INTO PIECES — EITHER BY TRADE, ROOMS, OR EQUIPMENT. THE G.C. SHALL REFER TO ALL SHEETS FOR RELEVANT INFORMATION INCLUDING ADDITIONAL INFORMATION TO BE PROVIDED BY THE OWNER, SUCH AS BUT NOT LIMITED TO, SPECIAL FINISHING REQUIREMENTS, ANY CHANGES OR MODIFICATIONS, ETC.

3. ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, ORDINANCES, AND REGULATIONS. SPECIFICALLY, CONFORM TO CURRENT CODES ALL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO APPLICABLE ACCESSIBILITY CODES.

4. THE ARCHITECT WILL SUBMIT PLANS TO AUTHORITIES HAVING JURISDICTION AND RESOLVE COMPLIANCE ISSUES FOR PERMIT APPROVAL; ALL PERMITS NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR U.N.O.

5. CONTRACTOR SHALL MAINTAIN AND SUBMIT TO OWNER / LANDLORD OR THEIR REPRESENTATIVE THE REQUIRED CERTIFICATES OF INSURANCE PRIOR TO COMMENCEMENT OF WORK.

6. CONTRACTOR SHALL BE FAMILIAR WITH JOB SITE CONDITIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THEM OF ANY RESPONSIBILITY. CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE CONSTRUCTION DETAILS BEFORE SUBMITTING THEIR BID AS NO ALLOWANCES WILL BE MADE DUE OF THE CONTRACTOR'S UNFAMILIARITY WITH THE JOB SITE CONDITIONS.

7. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE AND REPORT DISCREPANCIES AND/OR UNUSUAL CONDITIONS TO THE DESIGN TEAM PRIOR TO COMMENCEMENT OF CONSTRUCTION.

8. CONTRACTOR SHALL MAINTAIN THE PREMISES IN A CLEAR AND ORDERLY FASHION DURING THE ENTIRE CONSTRUCTION PERIOD. CONTRACTOR SHALL ENSURE THAT ALL TRASH AND WASTE ARE REMOVED DAILY FROM THE JOB SITE.

9. ALL CONSTRUCTION WORK PERFORMED BY THE CONTRACTOR SHALL BE EXECUTED SO AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH OTHER TENANTS AND THE OPERATION OF THE BUILDING. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE LOCATED AND STORED IN SERVICE AREAS, AND ARE NOT TO BURDEN THE CONSTRUCTION OR OPERATION OF THE BUILDING.

10. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES.

11. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT TRADEWORKERS, AND EXECUTED IN A NEAT WORKMANLIKE MANNER. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE STORE BY THE TENANT AND THE LANDLORD. ADDITIONAL WARRANTIES ON SOME EQUIPMENT MAY BE REQUIRED BY THE TENANT.

12. VERIFY PENETRATIONS THAT ARE MADE THROUGH EXTERIOR WALLS FOR CONDUIT OR DOOR OPENINGS ARE WEATHER SEALED AND THE WALL FINISH RESTORED.

13. AT THE CONCLUSION OF THE WORK, THE BUILDING AND EXTERIOR AREA SHALL BE CLEARED OF ALL CONSTRUCTION DEBRIS. ALL FOREIGN MATTER, MARKS, STAINS, FOREIGN PAINT, AND DIRT SHALL BE REMOVED FROM ALL SURFACES.

14. A COPY OF ALL MAINTENANCE AND OPERATING MANUALS SHALL BE GIVEN TO THE OWNERS REP FOR ANY EQUIPMENT INSTALLED IN THE LEASE SPACE (I.E. ROOFTOP UNITS, COOLERS, HOT WATER HEATER, ETC.) ALL MATERIAL SHALL BE BOUND IN ONE 3-RING BINDER ORGANIZED BY CSI DIVISIONS.

15. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SAMPLES TO OWNER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

16. IF NOT PROVIDED IN THE DRAWINGS AND SPECIFICATION MANUAL, ALL MEP DESIGN IS TO BE PROVIDED BY THE RELEVANT MECHANICAL, ELECTRICAL, OR PLUMBING SUB-CONTRACTORS, AND THEY SHALL BE RESPONSIBILITY FOR OBTAINING PERMIT(S) FOR SUCH DESIGNS.

17. CONTRACTOR AND SUBCONTRACTOR MUST FAMILIARIZE THEMSELVES WITH ANY EXHIBITS PROVIDED HEREIN. IF DISCREPANCIES EXIST, CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER AND ARCHITECT FOR CLARIFICATIONS PRIOR TO COMMENCING WORK IN QUESTION.

18. THE CONTRACTOR SHALL PROCURE ALL OF THE CERTIFICATES OF OCCUPANCY OR LOCAL EQUIVALENT.

19. THE WORK INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT AND SERVICES NECESSARY FOR, AND REASONABLY INCIDENTAL TO THE COMPLETION, IN PLACE, OF ALL WORK ILLUSTRATED AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

20. CONDITIONS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED FROM AVAILABLE INFORMATION AND MUST BE VERIFIED WITH ON-SITE CONDITIONS. CONTRACTOR(S) SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS AT THE BUILDING SITE AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. ANY UNKNOWN DIMENSION SHALL BE REQUESTED FROM THE ARCHITECT. SCALING OF THE DRAWINGS IS PROHIBITED.

21. THE CONTRACTORS SHALL RECEIVE, HANDLE, STORE (WHEN NECESSARY) AND BE RESPONSIBLE FOR ALL MATERIALS PROVIDED BY OTHERS. ALL MATERIALS SHALL BE ACCOUNTED FOR UPON RECEIPT AND ANY MISSING OR DAMAGED PARTS SHALL BE REPORTED TO THE OWNER IMMEDIATELY.

22. ALL REQUESTS FOR SUBSTITUTION OF ANY ITEMS SPECIFIED SHALL BE SUBMITTED IN WRITING TO THE OWNER'S AND/OR TENANT'S REPRESENTATIVE AND WILL BE CONSIDERED ONLY IF BETTER SERVICE, MORE ADVANTAGEOUS DELIVERY DATE, OR CREDIT TO THE CONTRACT PRICE WILL BE PROVIDED WITHOUT SACRIFICE OF QUALITY, APPEARANCE, AND FUNCTION.

23. CONTRACTORS SHALL SUBMIT CONFIRMATIONS WITH DELIVERY DATES ON ORDERS OF MATERIALS AND EQUIPMENT WITH LONG LEAD TIMES.

24. CONTRACTORS SHALL VERIFY WITH THE OWNER ALL FIXTURES AND EQUIPMENT TO BE FURNISHED BY OTHERS.

25. GAPS BETWEEN DIFFERENT MATERIALS AND OR AT CORNERS SHALL BE THOROUGHLY SEALED.

26. ALL MEP SYSTEMS TO BE LOCATED ABOVE BOTTOM OF JOIST.

27. ALL OTHER WORK REQUIRED BUT NOT SPECIFIED IN THESE DOCUMENTS, SHALL BE PERFORMED BY CONTRACTORS TO MEET THE GENERAL PRACTICING STANDARDS, BUILDING CODES AND MANUFACTURE'S INSTRUCTIONS AND SPECIFICATIONS.

28. CONTRACTOR SHALL COMPLY WITH ALL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, OR LOCAL) GOVERNING THE WORK. THE MOST STRINGENT SHALL APPLY.

29. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED PER MANUFACTURE'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURE'S INSTRUCTION AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.

30. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE AND FREE OF IRREGULARITIES.

31. PRIOR TO EXECUTING CONSTRUCTION CONTRACT, GENERAL CONTRACTOR MAY BE REQUESTED TO REVISE THEIR BID TO REFLECT THE FINAL CONSTRUCTION SET THAT MAY CONTAIN BIDDING ADDENDAS, REGULATORY COMMENTS, CLIENT REVISIONS, DRAWING CLARIFICATIONS, OR VARIOUS OTHER MODIFICATIONS.

32. NO DOCUMENT SET OTHER THAN THE CONSTRUCTION SET SHALL BE USED FOR CONSTRUCTION, NOR ALLOWED AFTER CULMINATION OF THE BIDDING PHASE ON SITE OR DISTRIBUTED TO ANY SUB CONTRACTORS/VENDORS/TRADES WITHOUT CLIENT/ARCHITECT APPROVAL AND SPECIFIC NOTIFICATION TO THE RECIPIENT THAT THE DOCUMENTS BEING PROVIDED ARE NOT THE FINAL "CONSTRUCTION SET" AND SHALL NOT BE USED FOR CONSTRUCTION.

33. G.C. TO REVIEW ENERGY COMCHECK FORMS. ALL GLAZING AND BUILDING ROOF / WALL INSULATION TO MEET COMCHECK REQUIREMENTS.

34. THE CONTRACTOR IS TO ENSURE THAT PROPER SAFEGUARDS ARE MET DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, PEDESTRIAN PROTECTION, FIRE EXTINGUISHER AVAILABILITY, MEANS OF EGRESS UPKEEP, STANDPIPE AVAILABILITY, SPRINKLER SYSTEM COMPLETION, AND FIRE PROTECTION WATER SUPPLY ACCESS

WEATHERPROOFING NOTES

WEATHERPROOF NOTES:
WHETHER SPECIFICALLY IDENTIFIED OR NOT THE FOLLOWING NOTES SHALL APPLY TO ALL RELEVANT DETAILS, CONDITIONS AND LOCATIONS FOR THE PROJECT IDENTIFIED HEREIN.

1. GENERAL NOTE:
THE BASE BID SHALL INCLUDE ALL NECESSARY AND REQUIRED FLASHING, COUNTER-FLASHING, WEATHERPROOFING, SEALANT, CAULKING, ETC., WHETHER SHOWN, DETAILED, NOTED OR NOT. THE INTENT OF THESE WEATHERPROOFING NOTES IS TO ENSURE THAT THE GENERAL CONTRACTOR IS AWARE OF THE NECESSITY FOR FULL WEATHERPROOFING OVER THE ENTIRE EXTERIOR OF THE BUILDING, BEHIND ALL EXTERIOR FINISHES AND BETWEEN ALL DISSIMILAR MATERIALS. INDUSTRY STANDARD DETAILS SHALL BE FOLLOWED IF IN DOUBT AT ALL LOCATIONS.
NOTE: NO CHANGE ORDER SHALL BE CONSIDERED FOR PROVIDING ADDITIONAL FLASHING, COUNTER-FLASHING, WEATHERPROOFING, SEALANT, CAULKING, ETC.

1.1. MATERIAL TRANSITIONS
1.1.1. ALL EXTERIOR JOINTS BETWEEN DISSIMILAR MATERIALS SHALL RECEIVE SEALANT; JOINTS EXCEEDING ½" IN DEPTH SHALL RECEIVE BACKER ROD AND SEALANT.

1.1.2. PROVIDE A CONTINUOUS SEALED WEATHER BARRIER OVER ALL EXTERIOR SHEATHING OR BACKER BOARD. WEATHER BARRIER SHALL BE EITHER LIQUID APPLIED OR SHEETING TYPE - REFER TO DRAWINGS, NOTES AND SPECIFICATIONS.

1.1.2.1. LIQUID APPLIED WEATHER BARRIER (LAWB) - ALL JOINTS TO FLASHING MATERIALS, SHEATHING JOINTS AND SUBSTITUTE JOINTS ARE TO BE TAPED AND REINFORCED WITH DETAIL MESH, FILLER, AND RECEIVE ANOTHER COAT OF LAWB PER MANUFACTURER RECOMMENDATIONS.

1.1.2.2. FLASHING INSTALLED OVER LAWB ARE TO BE COUNTER FLASHED AND MESH TAPED & RECOATED WITH LAWB PER MANUFACTURES RECOMMENDATIONS.

1.2. EXTERIOR WAINSCOTING
1.2.1. PROVIDE GALVANIZED METAL FLASHING SET IN CONTINUOUS BED OF SEALANT OVER FWBM AND SHEATHING. THE TOP OF METAL FLASHING SHALL BE COUNTER FLASHED.

1.2.2. CASING BEADS, SCREEDS, OR BASE METAL TRIMS MUST PROVIDE WEEPING ACTION. FINISH SHOULD BE HELD OFF OF FINISHED GRADE MIN. ½".

1.2.3. JOINT BETWEEN MASONRY MATERIALS & SIDEWALKS TO BE ½" AND FILLED WITH GROUT AND PROVIDE 2" WIDE WEEPS TO ALLOW MOISTURE TO MIGRATE OUT OF SYSTEM.

1.3. PREPARE WINDOW / DOOR ROUGH OPENING PREPARATION:
1.3.1. ROUGH OPENINGS TO BE WRAPPED WITH EXTERIOR WEATHER BARRIER PER MANUFACTURER

1.3.2. DOUBLE WRAP SILL AND RETURN UP JAMB 4".

1.3.3. SEAL ALL SILL JAMB AND HEAD CORNERS.

1.4. SILL CONDITION
1.4.1. PROVIDE SILL PAN FLASHING WITH END DAMS AT ALL SILL OPENINGS. SET SILL PAN FLASHING IN CONTINUOUS BED OF NONSILICONE SEALANT.

1.5. JAMB CONDITION
1.5.1. COUNTER FLASH OVER END DAM JOINT AT JAMB/SILL CONNECTION TO DIRECT WATER TO EXTERIOR.

1.5.2. PROVIDE CONTINUOUS BACKER ROD AND SEALANT AT ALL VERTICAL JOINTS BETWEEN WINDOW/DOOR FRAME AND EXTERIOR FINISH.

1.6. HEAD CONDITION
1.6.1 PROVIDE GALVANIZED METAL DRIP FLASHING EXTENDING OVER WINDOW/DOOR FRAME. PROVIDE BACKER ROD AND SEALANT BETWEEN FLASHING AND WINDOW FRAME.

1.7. PARAPET CAP FLASHING
1.7.1. WRAP TERMINATION (TOP, FRONT AND BACKSIDES) OF PARAPET WALL WITH FLEXIBLE RUBBERIZED SELF-ADHESIVE, SELFSEALING, WATER BARRIER MEMBRANE (FWBM). APPLY FWBM OVER SHEATHING, CONTINUOUSLY OVER SUBSTRATE TO BACK OF PARAPET WALL SHEATHING. LAP FWBM OVER VERTICAL WEATHER BARRIER TO ENSURE PROPER FLASHING.

1.8 WATERPROOFING CONSULTANT
THE GENERAL CONTRACTOR MUST ENGAGE A SEPARATE REGISTERED WATERPROOFING CONSULTANT AS A PART OF THE CONSTRUCTION TEAM TO INSPECT ALL WATERPROOFING ASPECTS OF THE BUILDING PRIOR TO COVER-UP. THE WATERPROOFING CONSULTANT SHALL TEST, INSPECT AND VISUALLY DOCUMENT ALL UNIQUE DETAILS. THE G.C. SHALL FOLLOW RECOMMENDATIONS OF CONSULTANT.

PROJECT SUMMARY

1. OFFICE ADDITION AND REMODEL: ADDING APPROXIMATELY 4,563 SQ. FT. TO AN EXISTING 6,400 SQ. FT. OFFICE BUILDING "A", WHICH WILL INCLUDE INTERIOR DEMOLITION AND REMODELING.

2. INTERIOR REMODEL: REMODELING AN EXISTING 4,800 SQ. FT. BUILDING "B", INCLUDING INTERIOR DEMOLITION AND REMODELING.

3. PARKING LOT AND SITE IMPROVEMENTS: ENHANCEMENTS TO THE PARKING LOT AND ASSOCIATED SITE IMPROVEMENTS.

4. TEMPORARY TRAILER: INSTALLATION OF MOBILE UNITS WITH NECESSARY UTILITIES AND CONSTRUCTION OF ACCESS STAIRS, RAMPS, AND DECKS.

BUILDING DETAILS:

- INTERIOR REMODEL OF TWO METAL PANEL BUILDINGS SYSTEM.
- BUILDING ADDITION USING STRUCTURAL INSULATED PANEL SYSTEM (SIPS) FOR EXTERIOR WALLS AND ROOF ON A CONCRETE FOUNDATION.
- FINISH METAL ROOF SYSTEM ON SIPS.
- COMPREHENSIVE INTERIOR AND EXTERIOR FINISHES, INCLUDING WALLS, CEILINGS,
- LIGHTING, PLUMBING, ELECTRICAL, AND MECHANICAL ELEMENTS.

SITE DETAILS:
- PAVING, UTILITIES, SIDEWALKS, LANDSCAPING, IRRIGATION, AND SITE LIGHTING.

PROJECT DIRECTORY

OWNER:
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936-538-8288
FIRE.CODES@MCTX.ORG

VICINITY MAP



NOTE:
CAD AND BIM FILES WILL NOT BE PROVIDED TO THE GC.

NOTE:
IF CONFLICTS EXIST, IN DRAWINGS AND/OR SPECIFICATIONS, THE GENERAL CONTRACTOR IS TO BID THE MOST EXPENSIVE OPTION TO RESOLVE THE CONFLICT UNLESS TOLD OTHERWISE VIA ADDENDUM.

NOTE:
ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, STRUCTURAL DRAWINGS, MEP DRAWINGS, AND SPECIFICATIONS ARE COMPLEMENTARY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DRAWINGS AND SPECIFICATIONS WITH EACH TRADE.

DEFERRED PERMITS

1. BUILDING ADDITION - STRUCTURAL INSULATED PANELS BY PREMIER SIPS.

2. FIRE AND SMOKE ALARM, IF REQUIRED BY THE CITY OF MONTGOMERY COUNTY, WILL BE DEFERRED PERMIT.

3. FIRE ALARM DESIGN PERMIT, AND INSTALLATION INCLUDED IN GENERAL CONTRACTORS SCOPE OF WORK, REFER TO SPEC SECTION 13851 FOR DESIGN REQUIREMENTS.

SHEET INDEX

No.	NAME	3/28/25 60% REVIEW SET	5/30/25 90% REVIEW SET	10/22/25 PERMIT_BID
GENERAL				
G001	COVER SHEET	●	●	●
G003	EXTERIOR ACCESSIBILITY	●	●	●
G004	INTERIOR ACCESSIBILITY	●	●	●
G005	INTERIOR ACCESSIBILITY	●	●	●
G100	CODE ANALYSIS	●	●	●
G101	BLDG A & C LIFE SAFETY	●	●	●
G102	BLDG B LIFE SAFETY	●	●	●
G103	BLDG A & BLDG C COMCHECK EXHIBIT	●	●	●
G104	"BLDG A & BLDG C" COMCHECK ENVELOPE	●	●	●
G105	"BLDG A & BLDG C" COMCHECK ENVELOPE	●	●	●
G106	"BLDG B" COMCHECK EXHIBIT	●	●	●
G107	"BLDG B" COMCHECK ENVELOPE	●	●	●
G108	"BLDG B" COMCHECK ENVELOPE	●	●	●
G109	MECHANICAL COMCHECK	●	●	●
G110	MECHANICAL COMCHECK		●	●
G111	LIGHTING COMCHECK	●	●	●
G112	LIGHTING COMCHECK		●	●
G201	PARTITION TYPES AND DETAILS		●	●
CIVIL				
G0.01	GENERAL NOTES	●		●
G0.02	GENERAL NOTES	●		●
C1.00	OVERALL SITE PLAN	●		●
C2.00	EROSION CONTROL PLAN	●		●
C3.00	PHASE 1 DEMOLITION PLAN	●		●
C3.01	TEMPORARY TRAILER LAYOUT		●	●
C4.00	PHASE 2 DEMOLITION PLAN		●	●
C5.00	OVERALL GRADING PLAN	●		●
C5.01	GRADING PLAN	●		●
C5.02	GRADING PLAN	●		●
C6.00	DRAINAGE AREA MAP		●	●
C6.01	UTILITIES AND DRAINAGE PLAN		●	●
C6.02	UTILITIES AND DRAINAGE PLAN		●	●
C7.01	PAVING AND DIMENSIONAL PLAN	●		●
C7.02	PAVING AND DIMENSIONAL PLAN	●		●
C7.03	FIRE LANE PLAN	●		●
C8.00	DETAILS	●		●
C8.01	DETAILS	●		●
C8.02	DETAILS	●		●
C8.03	DETAILS	●		●
C8.04	DETAILS	●		●
C8.05	DETAILS	●		●
ARCHITECTURAL				
A001	EXISTING/DEMO SITE PLAN	●	●	●
A001A	EXISTING ENLD/DEMO SITE PLAN BLDG - A	●	●	●
A001B	EXISTING ENLD/DEMO SITE PLAN BLDG - B	●	●	●
A002	TEMPORARY TRAILERS PLAN	●	●	●
A003	SITE PLAN	●	●	●
A004	"BLDG A & C" ENLARGED SITE PLAN	●	●	●
A005	"BLDG B" ENLARGED SITE PLAN	●	●	●
A101	"BLDG A" DEMO FLOOR PLAN & RCP	●	●	●
A102	"BLDG A & C" FLOOR PLAN	●	●	●
A102A	"BLDG A & C" DIMENSION FLOOR PLAN	●	●	●
A102B	"BLDG A & C" POWER - FURNITURE PLAN	●	●	●
A103	"BLDG A & C" FINISH PLAN	●	●	●
A104	"BLDG A & C" RCP	●	●	●
A105	"BLDG A" DEMO ROOF PLAN	●	●	●
A106	"BLDG A & C" ROOF PLAN	●	●	●
A107	"BLDG B" DEMO FLOOR PLAN & RCP	●	●	●
A107A	"BLDG B" FLOOR PLAN & DIMENSION FLOOR PLAN	●	●	●
A107B	"BLDG B" FURNITURE & POWER PLAN	●	●	●
A108	"BLDG B" RCP & FINISH FLOOR PLAN	●	●	●
A109	"BLDG B" DEMO ROOF PLAN & ROOF PLAN	●	●	●
A110	ENLARGED PLANS "BLDG A&C" EXTERIOR WOOD COLUMNS	●	●	●
A201	"BLDG A" DEMO EXTERIOR ELEVATIONS	●	●	●
A202	"BLDG A & C" EXTERIOR ELEVATIONS	●	●	●
A203	"BLDG B" DEMO EXTERIOR ELEVATIONS	●	●	●
A204	"BLDG B" EXTERIOR ELEVATIONS	●	●	●
A301	"BLDG A & C" DEMO BUILDING SECTION	●	●	●
A302	"BLDG A & C" BUILDING SECTION	●	●	●
A303	"BLDG B" DEMO BUILDING SECTION	●	●	●
A304	"BLDG B" BUILDING SECTION		●	●
A401	"BLDG A & C" WALL SECTIONS	●	●	●
A402	"BLDG A & C" WALL SECTION	●	●	●
A403	"BLDG A & C" WALL SECTION		●	●
A404	"BLDG B" WALL SECTION	●	●	●
A405	"BLDG A & C" RESTROOMS & BREAKROOM ENLARGED PLANS		●	●
A406	"BLDG B" RESTROOMS & BREAKROOM ENLARGED PLANS		●	●
A501	"BLDG A & C" PLAN DETAILS	●	●	●
A502	"BLDG A & C" PLAN DETAILS	●	●	●
A503	"BLDG A & C" DETAILS		●	●
A504	"BLDG A & C" DETAILS		●	●
A505	"BLDG A & C" DETAILS		●	●
A506	DETAILS		●	●
A601	FINISH & ROOM SCHEDULES	●	●	●

No.	NAME	3/28/25 60% REVIEW SET	5/30/25 90% REVIEW SET	10/22/25 PERMIT_BID
A602	SCHEDULES & DIAGRAMS	●	●	●
A603	STOREFRONT/ WINDOW SCHEDULE		●	●
A604	STOREFRONT/ WINDOW/ DOOR SCHEDULE		●	●
A701	"BLDG A & C" RESTROOMS ELEVATIONS	●	●	●
A702	"BLDG A & C" RESTROOMS ELEVATIONS		●	●
A703	"BLDG A & C" BREAKROOM ELEVATIONS		●	●
A704	"BLDG B" RESTROOMS & BREAKROOM ELEVATIONS		●	●
A705	"BLDG A & C" BREAKROOM MILLWORK		●	●
A706	"BLDG A & C" CONFERENCE ELEVATIONS		●	●
A901	"BLDG A & C" 3D EXTERIOR REPRESENTATION	●	●	●
A902	"BLDG A & C" 3D INTERIOR REPRESENTATION		●	●
STRUCTURAL				
S001	GENERAL NOTES, ABBREVIATIONS, AND SHEET INDEX	●		●
S002	GENERAL NOTES AND SPECIAL INSPECTIONS	●		●
S101	BUILDING EXPANSION FOUNDATION PLAN	●		●
S102	BUILDING D ENTRYWAY MODIFICATIONS	●		●
S201	TYPICAL FOUNDATION DETAILS	●		●
S202	TYPICAL FOUNDATION DETAILS			●
MECHANICAL				
M0-01	MECHANICAL SYMBOLS, LEGENDS AND GENERAL NOTES	●	●	●
M0-02	MECHANICAL SYMBOLS, LEGENDS AND NOTES	●	●	●
M0-03	MECHANICAL SPECIFICATIONS	●	●	●
M0-04	MECHANICAL SPECIFICATIONS	●	●	●
M1-02A	MECHANICAL DEMO DUCTWORK PLAN - BLDG A	●	●	●
M1-02B	MECHANICAL DEMO DUCTWORK PLAN - BLDG B	●	●	●
M2-01AC	MECHANICAL DUCTWORK PLAN - BLDG A&C	●	●	●
M2-01B	MECHANICAL DUCTWORK PLAN - BLDG B	●	●	●
M3-01	MECHANICAL PIPING PLAN - BLDG A&C		●	●
M8-01	MECHANICAL SCHEDULES	●	●	●
M9-01	MECHANICAL DETAILS	●	●	●
M9-02	MECHANICAL DETAILS			●
ELECTRICAL				
E0-01	ELECTRICAL SYMBOLS, LEGENDS AND GENERAL NOTES	●	●	●
E0-02	ELECTRICAL SPECIFICATIONS	●	●	●
E1-01	ELECTRICAL SITE PLAN	●	●	●
E1-02A	ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG A	●	●	●
E1-02B	ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG B	●	●	●
E2-01AC	ELECTRICAL POWER PLAN - BLDG A&C	●	●	●
E2-01B	ELECTRICAL POWER AND LIGHTING PLAN - BLDG B	●	●	●
E3-01AC	ELECTRICAL LIGHTING PLAN - BLDG A&C	●	●	●
E4-01AC	ELECTRICAL EQUIPMENT PLAN - BLDG A&C	●	●	●
E4-01B	ELECTRICAL EQUIPMENT PLAN - BLDG B	●	●	●
E7-01	ELECTRICAL RISER DIAGRAM	●	●	●
E8-01	ELECTRICAL SCHEDULES	●	●	●
E8-02	ELECTRICAL SCHEDULES	●	●	●
E8-03	LIGHT FIXTURE SCHEDULE	●	●	●
E9-01	ELECTRICAL DETAILS	●	●	●
E9-02	ELECTRICAL DETAILS	●	●	●
PLUMBING				
P0-01	PLUMBING SYMBOLS, LEGENDS AND GENERAL NOTES	●	●	●
P0-02	PLUMBING SPECIFICATIONS	●	●	●
P1-01	PLUMBING SITE PLAN	●	●	●
P1-02A	PLUMBING DEMO FLOOR PLAN - BLDG A	●	●	●
P1-02B	PLUMBING DEMO FLOOR PLAN - BLDG B	●	●	●
P2-00AC	PLUMBING UNDERFLOOR PLAN - BLDG A&C	●	●	●
P2-00B	PLUMBING UNDERFLOOR PLAN - BLDG B	●	●	●
P2-01AC	PLUMBING FLOOR PLAN - BLDG A&C	●	●	●
P2-01B	PLUMBING FLOOR PLAN - BLDG B	●	●	●
P7-01	PLUMBING RISER DIAGRAM			●
P8-01	PLUMBING SCHEDULES & DETAILS	●	●	●

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 19758 STATE OF TEXAS

10/22/2025

Heights Venture
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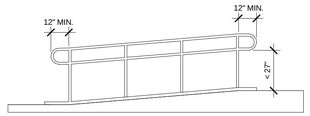
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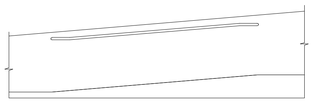
COVER SHEET

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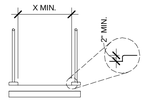
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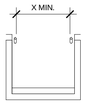


CURB



WALL

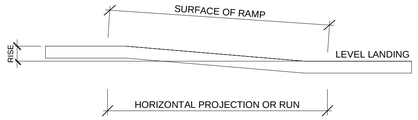




X = 36" MIN. IF RAMP IS LESS THAN 30' IN LENGTH

X = 44" MIN. IF RAMP IS GREATER THAN 30' IN LENGTH

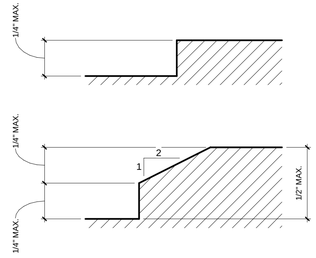
RAMP 12
1/4" = 1'-0"



SLOPE	MAXIMUM RISE in	mm	MAXIMUM HORIZONTAL PROJECTION ft	m
1:12 TO < 1:16	30	760	30	9
1:16 TO < 1:20	30	760	40	12

COMPONENTS OF A SINGLE RAMP RUN AND SAMPLE RAMP DIMENSIONS

SINGLE RAMP RUN 09
1/2" = 1'-0"



CHANGES IN LEVEL

A. CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL

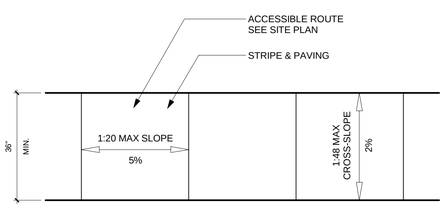
B. CHANGES IN LEVEL SHALL BE NO GREATER THAN 1/2"

C. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE PERMITTED TO BE 1/4" VERTICAL PLUS 1/4" BEVELED WITH A SLOP NOT STEEPER THAN 1:2

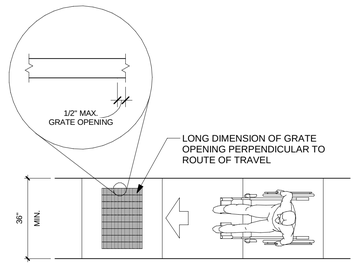
CHANGES IN LEVELS 06
12" = 1'-0"

WHILE IT IS THE INTENT OF THE ARCHITECT, HIS EMPLOYEES, AND ASSIGNS TO ADHERE TO ALL ASPECTS AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL ACCESSIBILITY CODES, THE CONTRACTOR SHALL NOT BE RELIEVED OF SOLE RESPONSIBILITY TO VERIFY ALL REQUIREMENTS OF SAID ACTS AS PERTAINING TO CONTRACT DOCUMENTS CONTAINED HEREIN PRIOR TO COMMENCEMENT OF ANY WORK. HE SHALL ALSO BE RESPONSIBLE TO IMMEDIATELY NOTIFY DESIGNER OF POSSIBLE DISCREPANCIES. HE SHALL ALSO PAY SPECIAL ATTENTION TO ITEMS LISTED BELOW:

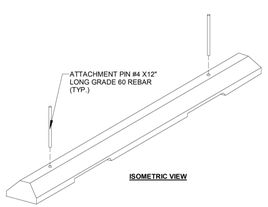
1. THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.
2. NO THRESHOLD SHALL EXCEED 1/2" IN HEIGHT.
3. HAND-OPERATED DOOR OPENING HARDWARE SHALL NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST IN ORDER TO OPERATE, AND SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F.
4. MAXIMUM FORCE REQUIRED TO OPEN EXTERIOR DOORS SHALL NOT EXCEED 5 LBS. MAXIMUM FORCE REQUIRED TO OPEN INTERIOR DOORS SHALL NOT EXCEED 5 LBS.
5. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
6. FAUCET CONTROL AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, FLUSH TYPE AND ELECTRONICALLY OPERATED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR A MINIMUM OF 10 SECONDS.
7. PROVIDE SIGNAGE WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSI A117.1 (LATEST EDITION) AND ADA REQUIREMENTS.
8. SIGNAGE HEIGHT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ACCESSIBILITY CODES.
9. RESTROOM SIGNAGE SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE RESPECTIVE RESTROOM DOOR.



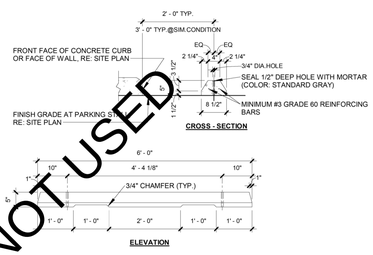
ACCESSIBLE ROUTE 05
1/2" = 1'-0"



GRATE DETAIL 02
3/8" = 1'-0"



ISOMETRIC VIEW



CROSS - SECTION

ELEVATION

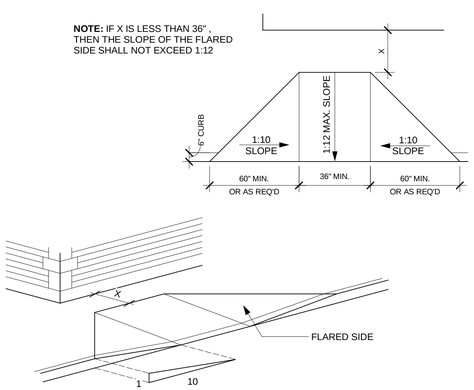
NOT USED

GENERAL NOTES:

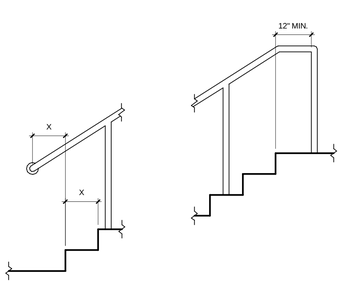
1. WHEEL STOP FINISH: EXPOSED CONCRETE.
2. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS.
3. ATTACHMENT PINS SHALL HAVE 7 INCH EMBEDMENT.

WHEEL STOP 07
12" = 1'-0"

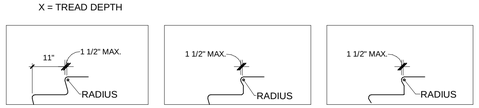
NOTE: IF X IS LESS THAN 36" , THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12



INTRUDING RAMP DETAIL 04
1/2" = 1'-0"



NOTE
X = TREAD DEPTH



FLUSH RISER **ANGLED NOSING** **ROUNDED NOSING**

HANDRAIL & TREAD DIMENSIONS 01
1/2" = 1'-0"

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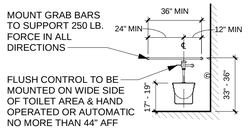


FIGURE 30 (c)
Toilet Stalls
Rear Wall of Standard Stall

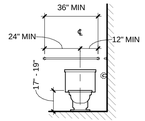


FIGURE 29 (a)
Grab Bars at Water Closets
Back Wall

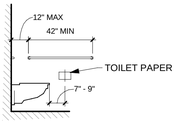


FIGURE 30 (d)
Toilet Stalls
Side Walls

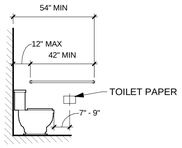


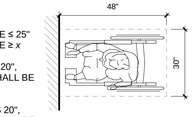
FIGURE 29 (b)
Grab Bars at Water Closets
Side Wall

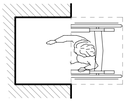
ADULT WATER CLOSET 09
1/4" = 1'-0"

NOTE:
x SHALL BE ≤ 25"
z SHALL BE ≥ *x*

WHEN *x* < 20",
THEN *y* SHALL BE
48" MAX.

WHEN *x* IS 20",
THEN *y* SHALL BE
44" MAX.





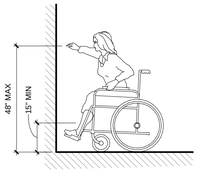


FIGURE 5 (a)
High Forward Reach Limit

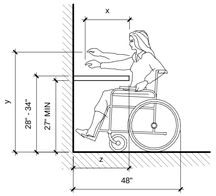


FIGURE 5 (b)
Maximum Forward Reach
over an Obstruction

ADULT FORWARD REACH 06
3/8" = 1'-0"

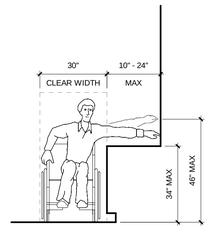


FIGURE 6 (c)
Maximum Side Reach over
Obstruction

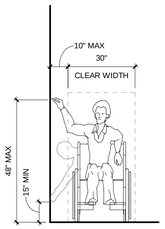


FIGURE 6 (b)
High and Low Side Reach Limits

ADULT SIDE REACH 03
3/8" = 1'-0"



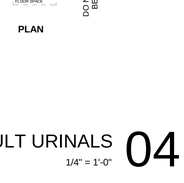
FIGURE 30 (a-1)
Standard Stall (End of Row)

PLAN



FRONT ELEVATION

FIGURE 32
Clear Floor Space
for Lavatories



SIDE ELEVATION

ADULT LAVATORY CLEARANCES 05
3/8" = 1'-0"

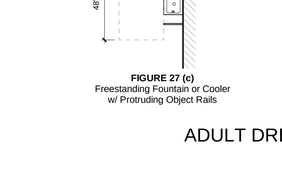


FIGURE 43 (e)
Signage Mounting
Location and Height

ADULT SIGNAGE & REACH REQ'S 02
3/8" = 1'-0"

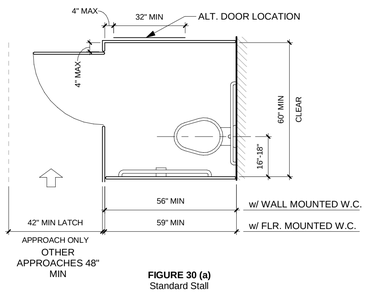
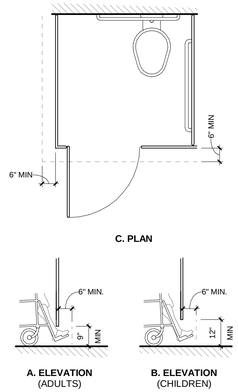


FIGURE 30 (a)
Standard Stall

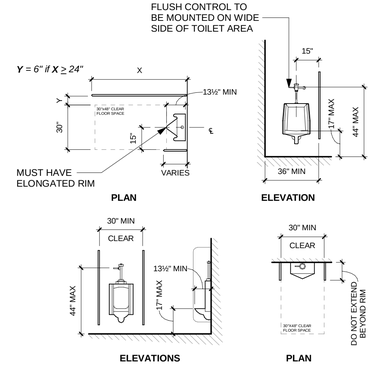
ACCESS. INLINE RESTROOM STALL 10
3/8" = 1'-0"



A. ELEVATION
(ADULTS)

B. ELEVATION
(CHILDREN)

ACCESS. END-OF-ROW RR STALL 08
3/8" = 1'-0"



PLAN

ELEVATION

ELEVATIONS

PLAN

TOILET COMPARTMENT TOE CLR. 07
3/8" = 1'-0"

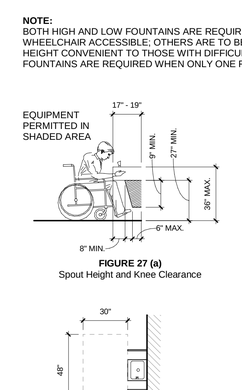


FIGURE 27 (a)
Spout Height and Knee Clearance

FIGURE 27 (b)
Clear Floor Space

FIGURE 27 (c)
Freestanding Fountain or Cooler
w/ Protruding Object Rails

FIGURE 27 (d)
Built-in Fountain or Cooler

ADULT URINALS 04
1/4" = 1'-0"

ADULT DRINKING FOUNTAINS 01
1/4" = 1'-0"

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10/22/2025

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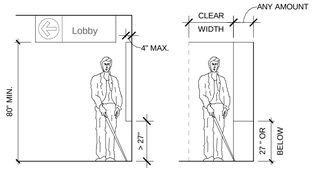


FIGURE 8 (a)
Walking Parallel to a Wall

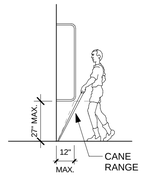


FIGURE 8 (b)
Walking Perpendicular to a Wall

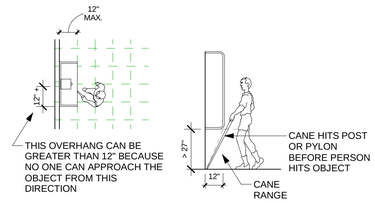


FIGURE 8 (d)
Objects Mounted on Posts or Pylons

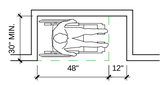


FIGURE 4 (e)
Additional Clear Floor Space for Wheelchairs

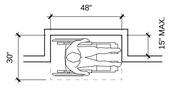
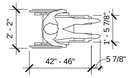


FIGURE 4 (d)
Clear Floor Space in Alcoves



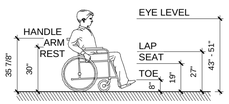
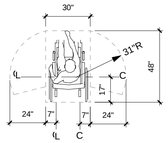


FIGURE A3
Dimensions of Adult-Sized Wheelchair



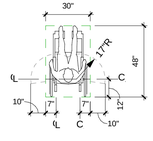


FIGURE A3 (a)
Dimensions of Adult-Sized Wheelchair

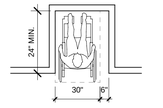


FIGURE 4 (e)
Additional Clear Floor Space for Wheelchairs

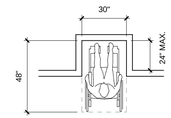


FIGURE 4 (d)
Clear Floor Space in Alcoves

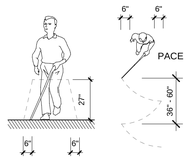


FIGURE A4
Cane Technique

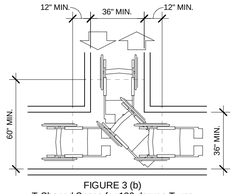


FIGURE 3 (b)
T-Shaped Space for 180 degree Turns

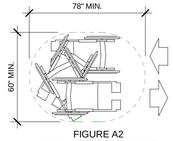


FIGURE A2
Space Needed for a Smooth
U-Turn in a Wheelchair

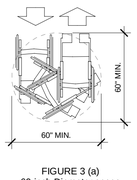


FIGURE 3 (a)
60-inch Diameter space

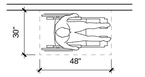


FIGURE 4 (c)
Parallel Approach

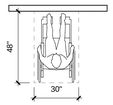


FIGURE 4 (b)
Forward Approach

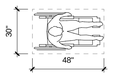


FIGURE 4 (a)
Clear Floor Space

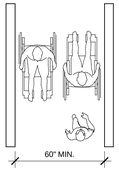


FIGURE 2
Minimum Clear Width for
Two Wheelchairs

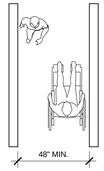


FIGURE A1
Minimum Passage Width for One
Wheelchair and One Ambulatory
Person

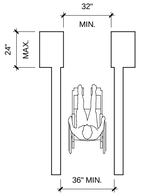
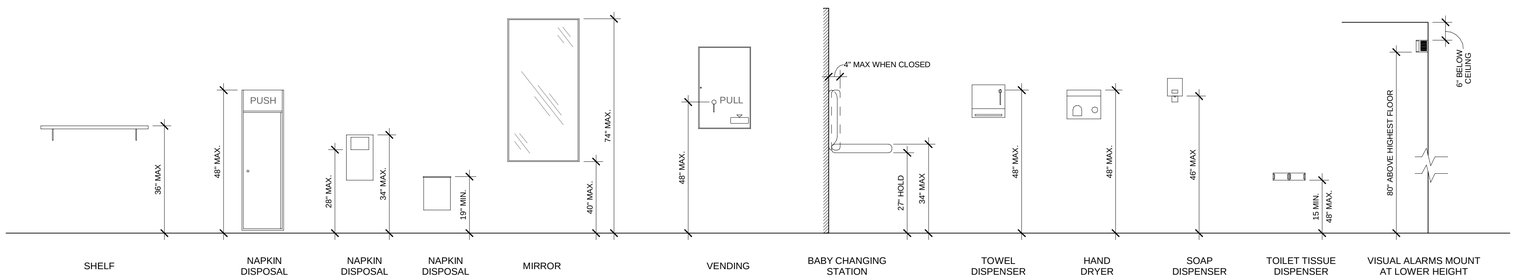


FIGURE 1
Minimum Clear Width for
Single Wheelchair

SPACE ALLOWANCES 05
1/4" = 1'-0"



MISC. FIXTURE HEIGHTS (ADULTS) 04
1/4" = 1'-0"

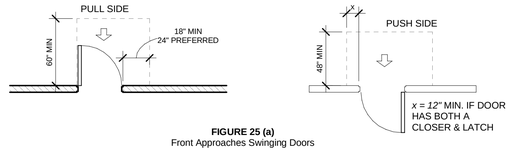


FIGURE 25 (a)
Front Approaches Swinging Doors

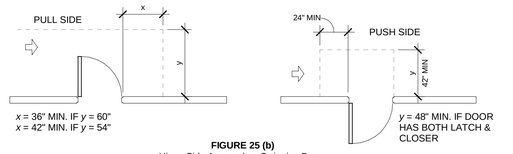


FIGURE 25 (b)
Hinge Side Approaches Swinging Doors

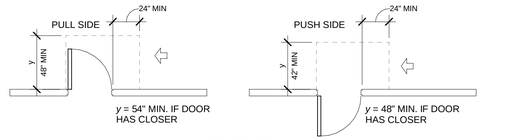


FIGURE 25 (c)
Latch Side Approaches
Swinging Doors



FIGURE 25 (d)
Front Approach
Sliding Doors and Folding Doors

FIGURE 25 (e)
Slide Side Approach
Sliding Doors and Folding Doors

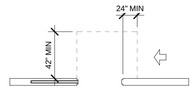


FIGURE 25 (f)
Latch Side Approach
Sliding Doors and Folding Doors

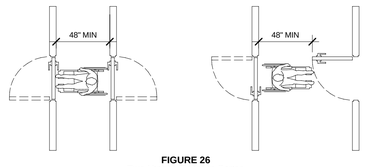


FIGURE 26
Two Hinged Doors in Series

MINIMUM DOOR CLEARANCES 01
1/4" = 1'-0"

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/23/2025 5:33:46 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

INTERIOR ACCESSIBILITY

G005

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PARKING ANALYSIS

PARKING PER SITE

STANDARD PARKING REQUIREMENTS:
PER THE 2021 THE WOODLANDS COMMERCIAL PLANNING AND DESIGN STANDARDS, APPENDIX O - PARKING RATIOS

DISABLED PARKING REQUIREMENTS:
PER THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS)
CHAPTER 2, TABLE 208.2 PARKING SPACES FOR EACH PARKING FACILITY.

TOTAL BLDG "A&C AREA:	10,963 SF
GENERAL OFFICE:	3 SPACES/1,000 SF.
TOTAL PARKING SPACE REQUIRED:	31 SPACES
TOTAL ADA PARKING REQUIRED:	2 SPACES
TOTAL BLDG "B" AREA:	4,846 SF
GENERAL OFFICE:	3 SPACES/1,000 SF.
TOTAL PARKING SPACE REQUIRED:	13 SPACES
TOTAL ADA PARKING REQUIRED:	1 SPACE
TOTAL BLDG "D" AREA:	10,034 SF
WAREHOUSE:	1 SPACE/7,000 SF.
TOTAL PARKING SPACE REQUIRED:	2 SPACES
TOTAL ADA PARKING REQUIRED:	1 SPACE
TOTAL PARKING SPACE REQUIRED:	46 SPACES
TOTAL ADA PARKING REQUIRED:	4 SPACES
TOTAL PARKING SPACE PROVIDED:	**203 SPACES**
TOTAL ADA PARKING PROVIDED:	**8 SPACES**

PARKING DEVELOPMENT CALCULATIONS:

EXISTING TOTAL PARKING SPACES	161 SPACES
EXISTING PARKING DEMO	-56 SPACES
EXISTING TOTAL PARKING	102 SPACES
NEW PARKING ADDED	101 SPACES
TOTAL PARKING IN SITE: (INCLUDING ADA)	**203 SPACES**
EXISTING ADA SPACES	5 SPACES
EXISTING ADA DEMO	- 3 SPACES
EXISTING ADA TOTAL:	2 SPACES
NEW ADA SPACES ADDED:	6 SPACES
TOTAL ADA PARKING:	**8 SPACES**

SITE PARKING ANALYSIS 12

CODE INFORMATION

JURISDICTION: THE WOODLANDS TOWNSHIP
MONTGOMERY COUNTY

2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 NFPA FIRE CODE
2021 INTERNATIONAL FIRE CODE (IFC)
20217 NATIONAL ELECTRICAL CODE (NEC) NFPA 70
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2011 THE WOODLANDS COMMERCIAL PLANNING AND DESIGN STANDARDS

GENERAL DESCRIPTION

REMODEL OF EXISTING 4,800 S.F. SINGLE STORY OFFICE BUILDING REFERRED TO HEREIN AS "BUILDING B". THE PROJECT IMPROVEMENTS INCLUDES:

BUILDING INTERIOR IMPROVEMENTS:
- DEMOLISH SELECTED INTERIOR WALLS, WINDOWS, CEILING, FLOOR FINISHES, LIGHT FIXTURES, ELECTRICAL WIRING DEVICES, CONDUIT WIRES, MECHANICAL GRILLES AND DUCTS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS.
- NEW REMODEL IMPROVEMENTS CONSIST OF NEW PARTITION, WINDOWS, FLOOR, CEILING FINISHES.
- NEW LIGHT FIXTURES, WIRING DEVICES, CONDUIT WIRES AND ALL OTHER ELECTRICAL ITEMS WHICH ARE REQUIRED FOR THE COMPLETION OF THIS REMODEL.
- MECHANICAL WORK IS LIMITED TO NEW DUCT WORK, DIFFUSERS, REGISTERS AND ALL ITEMS WHICH ARE REQUIRED FOR THE COMPLETION OF THIS REMODEL.

ADMINISTRATION

1. ALL WORK TO BE IN CONFORMANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AND ALL APPLICABLE CODES, INCLUDING FEDERAL, STATE, CITY, AND LOCAL AMENDMENTS.
2. ACCESSIBILITY REQUIREMENTS HAVE BEEN DESIGNED IN COMPLIANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS), FEDERAL ADA, ANSI 117.1, OR AS AMENDED BY STATE OR LOCAL REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.

OCCUPANCY

(CHAPTER 3)

OCCUPANCY TYPE: BUSINESS, GROUP B (OFFICE REMODEL)

GENERAL BUILDING AREA

(CHAPTER 5)

(PER TABLE 504.4)
ALLOWABLE NUMBER OF STORIES: 3
EXISTING NUMBER OF STORIES: 1

SITE IMPROVEMENT AREA: SEE DETAIL 1/G100

BUILDING (B)
EXISTING BUILDING AREA (BUSINESS): 4,800 SF
BLDG/SITE RATIO: (4,800/59,330) = .08%

(PERT TABLE 504.3)
ALLOWABLE BUILDING HEIGHT: 55 FT
EXISTING BUILDING HEIGHT: 15'-6" AFF

(PER TABLE 506.2)
ALLOWABLE BUILDING AREA: 23,000 SF (NS)
EXISTING BUILDING AREA: 4,800 SF

TYPE OF CONSTRUCTION

(CHAPTER 6)

CONSTRUCTION CLASSIFICATION (SECTION 602): TYPE: II-B, NO SPRINKLERED (NO CHANGE TO EXISTING CONSTRUCTION TYPE)

FIRE RESISTIVE CONSTRUCTION REQUIREMENTS HOURS (TABLE 601)

PRIMARY STRUCTURE FRAME:	0-HR
EXTERIOR BEARING WALLS:	0-HR
INTERIOR BEARING WALLS:	0-HR
EXTERIOR NON-BEARING WALL (TABLE 705.5):	0-HR >30'
INTERIOR NON-BEARING WALL:	0-HR
FLOOR CONSTRUCTION:	0-HR
ROOF CONSTRUCTION:	0-HR

FIRE SEPARATION DISTANCE

PER TABLE 705.5:

NORTH > 30' (71' - 4")
EAST > 30' (114' - 0")
SOUTH < 30' (87' - 6")
WEST > 30' (65' - 0")

MAXIMUM OPENING AREA

(PER TABLE 705.9)
ALL OPENINGS HAVE NO LIMIT TO AN ALLOWABLE AREA DUE TO FIRE SEPARATION DISTANCE

FIRE SEPARATION

1. 0 - HR. SEPARATION.

FIRE PROTECTION (ACTIVE)

1. THIS BUILDING IS NOT SPRINKLED.
2. IF REQUIRED, THE FIRE SPRINKLER SYSTEM IS A DELEGATED DESIGN COMPONENT WHICH SHALL BE DESIGNED, PERMITTED, FABRICATED AND INSTALLED BY A MONTGOMERY COUNTY LICENSED FIRE SPRINKLER CONTRACTOR. THE MONTGOMERY COUNTY FIRE SPRINKLER SYSTEM IS A DEFERRED SUBMITTAL. THE FIRE SPRINKLER SYSTEM DESIGN, PERMIT, AND INSTALLATION SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK.
3. THE FIRE ALARM SYSTEM IS A DELEGATED DESIGN COMPONENT WHICH SHALL BE DESIGNED, PERMITTED, FABRICATED AND INSTALLED BY A MONTGOMERY COUNTY LICENSED FIRE ALARM CONTRACTOR. THE MONTGOMERY COUNTY PERMIT FOR THE ALARM SYSTEM IS A DEFERRED SUBMITTAL. THE FIRE ALARM SYSTEM DESIGN, PERMIT, AND INSTALLATION SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK.

MEANS OF EGRESS

(CHAPTER 10)

TOTAL OCCUPANT LOAD CALCULATION
SECTION 1004 - PER TABLE 1004.5

FUNCTION OF SPACE	FUNCTION OF SPACE	FUNCTION OF SPACE
BUSINESS AREA AREA: 1,856 SF LOAD: 150 GROSS (AREA/LOAD=X) 12.37 = 12 OCCUPANTS	ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS) AREA: 1,280 SF LOAD: 15 NET (AREA/LOAD=X) 85.33 = 85 OCCUPANTS	ACCESSORY STORAGE AREAS, MECHANICAL EQUIP. ROOM AREA: 739 SF LOAD: 300 GROSS (AREA/LOAD=X) 2.46 = 2 OCCUPANTS

TOTAL OCCUPANT LOAD = 99

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE
WITHOUT SPRINKLER SYSTEM FOR OCCUPANCY 'B'
OL>30 = 75'
OL≤30 = 100'

PER SECTION 1005.3.2 EXIT WIDTH:
REQUIRED: (99 OL X 0.2 IN) = 19.8"
PROVIDED: 108"

PER TABLE 1006.3.3
NUMBER OF EXITS AND EXIT ACCESS DOORWAYS:
EXITS REQUIRED: 2
EXITS PROVIDED: 3

PER SECTION 1007.1.1 (TWO EXITS OR EXIT ACCESS DOORWAYS).
WHERE TWO EXITS, EXIT ACCESS - SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR ARE TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.

MAXIMUM OVERALL DIAGONAL DIMENSION OF BUILDING OR AREA: 123' - 6 1/2"

DISTANCE APART OR EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH PROVIDED = 123' - 6 1/2" / 2 = 61' - 9 1/4"
LENGTH PROVIDED = 88'-6 3/4"

PER TABLE 1020.2 (CORRIDOR FIRE RESISTANCE RATING) N/A

ACCESSIBILITY

THE SITE AND FACILITY HAVE BEEN DESIGNED IN COMPLIANCE WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS AND THE 2021 INTERNATIONAL BUILDING CODE.

SPECIAL INSPECTIONS

THE OWNER SHALL PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704, IBC 2021. THE CONTRACTOR SHALL COORDINATE THE INSPECTIONS, PROVIDING SUFFICIENT NOTICE TO INSURE INSPECTORS, OBSERVERS, TESTING PERSONNEL AND EQUIPMENT ARE ON SITE WHEN NEEDED SO AS TO PROVIDE NO DISRUPTION TO THE CONTRACTOR'S EXECUTION OF THE WORK.

PLUMBING

2021 INTERNATIONAL PLUMBING CODE
PER TABLE 2902.1 AND SECTION 424.2
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

PER SECTION 2902.1.1 - FIXTURE CALCULATIONS
OCCUPANT LOAD: 99
O.L. BY GENDER (O.L. / 2): 49.5

MALE WC:	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
URINALS:	BASE ON SECTION 424.2, URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS
FEMALE WC:	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
MALE LAVATORY:	1 PER 40
FEMALE LAVATORY:	1 PER 40
DRINKING FOUNTAIN:	1 PER 100
SERVICE SINK:	1 REQ. IF OL>15

FIXTURES:	REQ. WC	PROV. WC	REQ. UR	PROV. UR	REQ. LAV	PROV. LAV.	REQ. SERV. SINK	PROV. SERV. SINK
MALE:	2	1	1 *	1 *	1	1		
FEMALE:	2	2	-	-	1	1		
OTHER:							1	1

* ONE URINAL SUBSTITUTED ONE WATER CLOSET

BUILDING "B" 07

CODE INFORMATION

JURISDICTION: THE WOODLANDS TOWNSHIP
MONTGOMERY COUNTY

2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 NFPA FIRE CODE
2021 INTERNATIONAL FIRE CODE (IFC)
20217 NATIONAL ELECTRICAL CODE (NEC) NFPA 70
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2011 THE WOODLANDS COMMERCIAL PLANNING AND DESIGN STANDARDS

GENERAL DESCRIPTION

REMODEL OF EXISTING 6,400 S.F. SINGLE STORY OFFICE BUILDING REFERRED TO HEREIN AS "BUILDING A" WITH A PROPOSED 4,563 S.F. SINGLE STORY ADDITION. THE BUILDING ADDITION IS REFERRED TO AS "BUILDING C" HEREIN.
THE PROJECT IMPROVEMENTS INCLUDES:

BUILDING:
INTERIOR IMPROVEMENTS:
- DEMOLISH EXISTING INTERIOR WALLS, SELECTED WINDOWS, CEILING, FLOOR FINISHES, LIGHTS, ELECTRICAL AND MECHANICAL SYSTEM.
- SIPS SYSTEM EXTERIOR FRAMED, WITH METAL PANELS, BUILDING WITH WOOD STRUCTURAL ELEMENTS AND CONCRETE FOUNDATION.
- SIPS ROOFING INSULATED SYSTEM WITH METAL PANEL
- INTERIOR METAL STUDS WITH GYP. BD.
- ALL ASSOCIATED INTERIOR AND EXTERIOR BUT NOT LIMITED TO, FINISH WALLS CEILINGS, LIGHTING PLUMBING, ELECTRICAL MECHANICAL AND ANY OTHER ELEMENT REQUIRED FOR THE COMPLETION OF THIS REMODEL PER THE PROJECT DOCUMENTS.

SITE:
- PAVING, UTILITIES, SIDEWALKS, LANDSCAPE, IRRIGATION, AND SITE LIGHTING.

ADMINISTRATION

1. ALL WORK TO BE IN CONFORMANCE WITH ALL THE APPLICABLE CODES, INCLUDING FEDERAL, STATE, CITY, AND LOCAL AMENDMENTS.
2. THIS FACILITY REQUIREMENTS HAVE BEEN DESIGNED IN COMPLIANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS), FEDERAL ADA, ANSI 117.1, OR AS AMENDED BY STATE OR LOCAL REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.

OCCUPANCY

(CHAPTER 3)

OCCUPANCY TYPE: BUSINESS, GROUP B
(OFFICE REMODEL AND ADDITION)

GENERAL BUILDING AREA

(CHAPTER 5)

BUILDING TYPE V-B (EXISTING BUILDING A + ADDITION BUILDING C)

(PER TABLE 504.4)
ALLOWABLE NUMBER OF STORIES: 2
EXISTING NUMBER OF STORIES: 1

SITE IMPROVEMENT AREA: 59,330 SF (1.36 AC.)

BUILDING (A-C)
EXISTING BUILDING AREA - A (BUSINESS): 6,400 SF
ADDITION BUILDING AREA -C (BUSINESS) 4,563 SF
BLDG/SITE RATIO: (10,963/59,330) = .184%

(PER TABLE 504.3)
ALLOWABLE BUILDING HEIGHT: 40 FT
EXISTING BUILDING (A) HEIGHT: 14-0" - AFF
ADDITION BUILDING (C) HEIGHT: 20'-6 1/2" - AFF

(PER TABLE 506.2)
ALLOWABLE BUILDING AREA: 9,000 SF (SN)
EXISTING BUILDING (A) AREA: 6,400 SF
ADDITION BUILDING (C) AREA: 4,563 SF
TOTAL AREA: 10,963 SF

PER SECTION 506.2.1 SINGLE OCCUPANCY BUILDING
Aa = At + (NS * If)
Aa = 9,000 SF+ (9,000 SF* .50)
Aa = 9,000 SF+ 4,500 SF

Aa = 13,500 SF (ALLOWABLE BUILDING AREA)

TYPE OF CONSTRUCTION

(CHAPTER 6)

CONSTRUCTION CLASSIFICATION (SECTION 602): TYPE: V-B, NOT SPRINKLERED

FIRE RESISTIVE CONSTRUCTION REQUIREMENTS HOURS (TABLE 601)

PRIMARY STRUCTURE FRAME:	0-HR
EXTERIOR BEARING WALLS:	0-HR
INTERIOR BEARING WALLS:	0-HR
EXTERIOR NON-BEARING WALL (TABLE 705.5):	0-HR >30'
INTERIOR NON-BEARING WALL:	0-HR
FLOOR CONSTRUCTION:	0-HR
ROOF CONSTRUCTION:	0-HR

FIRE SEPARATION DISTANCE

PER TABLE 705.5:

NORTH > 30' (205' - 9")
EAST > 30' (63 - 9")
SOUTH > 30' (112" - 6")
WEST > 30' (79 - 6")

MAXIMUM OPENING AREA

ALL OPENINGS HAVE NO LIMIT TO AN ALLOWABLE AREA DUE TO FIRE SEPARATION DISTANCE PER TABLE 705.9.

FIRE SEPARATION

1. 0 - HR. SEPARATION.

FIRE PROTECTION (ACTIVE)

1. THIS BUILDING IS NOT SPRINKLED.
2. IF REQUIRED, THE FIRE SPRINKLER SYSTEM IS A DELEGATED DESIGN COMPONENT WHICH SHALL BE DESIGNED, PERMITTED, FABRICATED AND INSTALLED BY A MONTGOMERY COUNTY LICENSED FIRE SPRINKLER CONTRACTOR. THE MONTGOMERY COUNTY FIRE SPRINKLER SYSTEM IS A DEFERRED SUBMITTAL. THE FIRE SPRINKLER SYSTEM DESIGN, PERMIT, AND INSTALLATION SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK.
3. THE FIRE ALARM SYSTEM IS A DELEGATED DESIGN COMPONENT WHICH SHALL BE DESIGNED, PERMITTED, FABRICATED AND INSTALLED BY A MONTGOMERY COUNTY LICENSED FIRE ALARM CONTRACTOR. THE MONTGOMERY COUNTY PERMIT FOR THE ALARM SYSTEM IS A DEFERRED SUBMITTAL. THE FIRE ALARM SYSTEM DESIGN, PERMIT, AND INSTALLATION SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK.

MEANS OF EGRESS

(CHAPTER 10)

TOTAL OCCUPANT LOAD CALCULATION
SECTION 1004 - PER TABLE 1004.5

FUNCTION OF SPACE	FUNCTION OF SPACE	FUNCTION OF SPACE
BUSINESS AREA AREA: 5,011 SF LOAD: 150 GROSS (AREA/LOAD=X) 33.4 = 33 OCCUPANTS	ASSEMBLY AREA AREA: 1,413 SF LOAD: 15 NET (AREA/LOAD=X) 94.2 = 94 OCCUPANTS	ACCESSORY STORAGE/MECH AREA AREA: 1,204 SF LOAD: 300 GROSS (AREA/LOAD=X) 4 = 4 OCCUPANTS

TOTAL OCCUPANT LOAD = 131

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE
WITHOUT SPRINKLER SYSTEM FOR OCCUPANCY 'V-B'
OL>30 = 75'
OL≤30 = 100'

PER SECTION 1005.3.2 EXIT WIDTH:
REQUIRED: (131 OL X 0.2 IN) = 26.2"
PROVIDED: 216"

PER TABLE 1006.3.3
NUMBER OF EXITS AND EXIT ACCESS DOORWAYS:
EXITS REQUIRED: 2
EXITS PROVIDED: 6

PER SECTION 1007.1.1
(TWO EXITS OR EXIT ACCESS DOORWAYS).
WHERE TWO EXITS, EXIT ACCESS - SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR ARE TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.

MAXIMUM OVERALL DIAGONAL DIMENSION OF BUILDING OR AREA: 189' - 8 1/4".

DISTANCE APART OR EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH PROVIDED = 189' - 8 1/4" / 2 = 94' - 6 1/8".
LENGTH PROVIDED = 111' - 11 1/2".

PER TABLE 1020.2 (CORRIDOR FIRE RESISTANCE RATING) (N/A)

ACCESSIBILITY

THE SITE AND FACILITY HAVE BEEN DESIGNED IN COMPLIANCE WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS AND THE 2021 INTERNATIONAL BUILDING CODE.

SPECIAL INSPECTIONS

THE OWNER SHALL PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704, IBC 2021. THE CONTRACTOR SHALL COORDINATE THE INSPECTIONS, PROVIDING SUFFICIENT NOTICE TO INSURE INSPECTORS, OBSERVERS, TESTING PERSONNEL AND EQUIPMENT ARE ON SITE WHEN NEEDED SO AS TO PROVIDE NO DISRUPTION TO THE CONTRACTOR'S EXECUTION OF THE WORK.

PLUMBING

2021 INTERNATIONAL PLUMBING CODE
PER TABLE 2902.1 AND SECTION 424.2
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

PER SECTION 2902.1.1 - FIXTURE CALCULATIONS
OCCUPANT LOAD: 131
O.L. BY GENDER (O.L. / 2): 65.5

MALE WC:	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
URINALS:	BASE ON SECTION 424.5 (N/A)
FEMALE WC:	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
MALE LAVATORY:	1 PER 40
FEMALE LAVATORY:	1 PER 40
DRINKING FOUNTAIN:	1 PER 100
SERVICE SINK:	1 REQ. IF OL>15

FIXTURES:	REQ. WC	PROV. WC	REQ. UR	PROV. UR	REQ. LAV	PROV. LAV.	REQ. SERV. SINK	PROV. SERV. SINK
MALE:	2	2	0	3	1	2		
FEMALE:	2	3	-		1	3		
OTHER:							1	1

BUILDING "A & C" 01

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
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	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 19755 STATE OF TEXAS
10/22/2025

Heights Venture
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PARD CAMPUS

8203 MILLENNIUM FOREST,
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CODE ANALYSIS

G100

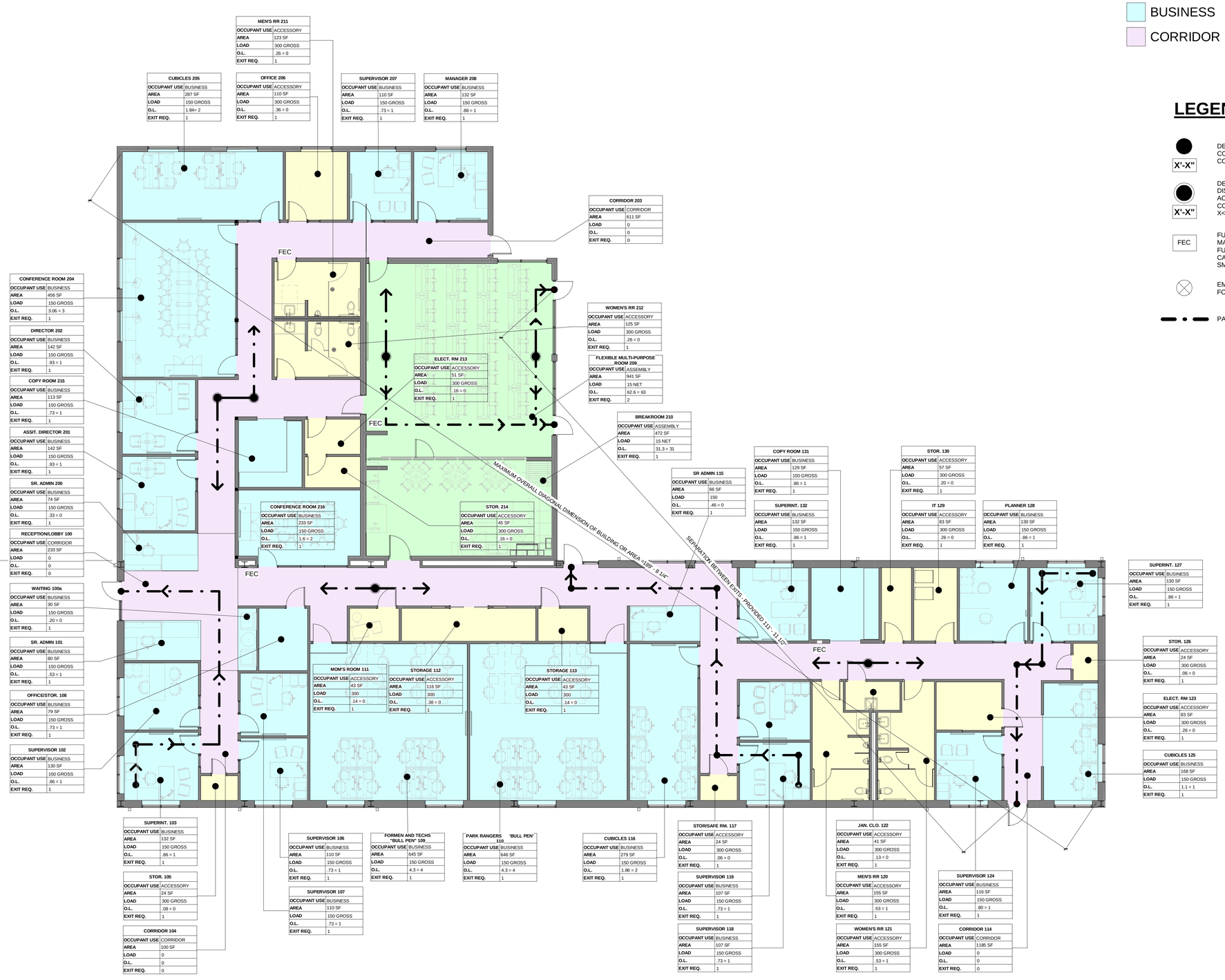
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OCCUPANCY ROOM AREAS

ACCESSORY	STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
ASSEMBLY	UNCONCENTRATED (TABLES AND CHAIRS)
BUSINESS	SPACES WITH FUNCTION AS NOTED
CORRIDOR	SERVICE SPACE WITH NO OCCUPANT LOAD

LEGEND

- X'-X" — DESIGNATES THE MOST REMOTE POINT FOR THE COMMON PATH OF EGRESS. DISTANCE SHOWN IS COMMON PATH OF EGRESS ONLY. <75'
- X'-X" — DESIGNATES TWO SEPARATE PATHS OF EGRESS. DISTANCE SHOWN IS FOR THE ENTIRE EXIT ACCESS TRAVEL DISTANCE AND INCLUDES THE COMMON PATH OF EGRESS. PER TABLE 1017.2, X<200' WITHOUT A SPRINKLER SYSTEM.
- FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET. MANUFACTURER: POTTER ROEMER BUENA SERIES FULLY RECESSED (OR EQUAL) SIZE: 9" x 24 x 5" CABINET COLOR: WHITE GLASS DOOR COLOR: SMOKE LETTERING: WHITE LETTERING VERTICAL
- EMERGENCY EXIT SIGN. SEE ELECTRICAL SHEETS FOR ADDITIONAL EMERGENCY EGRESS LIGHTS.
- PATH OF EGRESS TRAVEL.



MEN'S RR 211

OCCUPANT USE	ACCESSORY
AREA	123 SF
LOAD	300 GROSS
O.L.	.26 = 0
EXIT REQ.	1

CUBICLES 205

OCCUPANT USE	BUSINESS
AREA	287 SF
LOAD	150 GROSS
O.L.	1.84= 2
EXIT REQ.	1

OFFICE 206

OCCUPANT USE	ACCESSORY
AREA	110 SF
LOAD	300 GROSS
O.L.	.36 = 0
EXIT REQ.	1

SUPERVISOR 207

OCCUPANT USE	BUSINESS
AREA	110 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

MANAGER 208

OCCUPANT USE	BUSINESS
AREA	132 SF
LOAD	150 GROSS
O.L.	.88 = 1
EXIT REQ.	1

CORRIDOR 203

OCCUPANT USE	CORRIDOR
AREA	611 SF
LOAD	0
O.L.	0
EXIT REQ.	0

CONFERENCE ROOM 204

OCCUPANT USE	BUSINESS
AREA	456 SF
LOAD	150 GROSS
O.L.	3.06 = 3
EXIT REQ.	1

DIRECTOR 202

OCCUPANT USE	BUSINESS
AREA	142 SF
LOAD	150 GROSS
O.L.	.93 = 1
EXIT REQ.	1

COPY ROOM 215

OCCUPANT USE	BUSINESS
AREA	113 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

ASSIT. DIRECTOR 201

OCCUPANT USE	BUSINESS
AREA	142 SF
LOAD	150 GROSS
O.L.	.93 = 1
EXIT REQ.	1

SR. ADMIN 200

OCCUPANT USE	BUSINESS
AREA	74 SF
LOAD	150 GROSS
O.L.	.33 = 0
EXIT REQ.	1

RECEPTION/LOBBY 100

OCCUPANT USE	CORRIDOR
AREA	233 SF
LOAD	0
O.L.	0
EXIT REQ.	0

WAITING 100a

OCCUPANT USE	BUSINESS
AREA	30 SF
LOAD	150 GROSS
O.L.	.20 = 0
EXIT REQ.	1

SR. ADMIN 101

OCCUPANT USE	BUSINESS
AREA	80 SF
LOAD	150 GROSS
O.L.	.53 = 1
EXIT REQ.	1

OFFICE/STOR. 108

OCCUPANT USE	BUSINESS
AREA	79 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

SUPERVISOR 102

OCCUPANT USE	BUSINESS
AREA	130 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

ELECT. RM 213

OCCUPANT USE	ACCESSORY
AREA	51 SF
LOAD	300 GROSS
O.L.	.16 = 0
EXIT REQ.	1

WOMEN'S RR 212

OCCUPANT USE	ACCESSORY
AREA	125 SF
LOAD	300 GROSS
O.L.	.26 = 0
EXIT REQ.	1

FLEXIBLE MULTI-PURPOSE ROOM 209

OCCUPANT USE	ASSEMBLY
AREA	941 SF
LOAD	15 NET
O.L.	62.6 = 63
EXIT REQ.	2

BREAKROOM 210

OCCUPANT USE	ASSEMBLY
AREA	472 SF
LOAD	15 NET
O.L.	31.3 = 31
EXIT REQ.	1

CONFERENCE ROOM 216

OCCUPANT USE	BUSINESS
AREA	233 SF
LOAD	150 GROSS
O.L.	1.6 = 2
EXIT REQ.	1

STOR. 214

OCCUPANT USE	ACCESSORY
AREA	45 SF
LOAD	300 GROSS
O.L.	.16 = 0
EXIT REQ.	1

SR ADMIN 115

OCCUPANT USE	BUSINESS
AREA	66 SF
LOAD	150
O.L.	.46 = 0
EXIT REQ.	1

COPY ROOM 131

OCCUPANT USE	BUSINESS
AREA	129 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

SUPERINT. 132

OCCUPANT USE	BUSINESS
AREA	132 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

STOR. 130

OCCUPANT USE	ACCESSORY
AREA	57 SF
LOAD	300 GROSS
O.L.	.20 = 0
EXIT REQ.	1

IT 129

OCCUPANT USE	ACCESSORY
AREA	83 SF
LOAD	300 GROSS
O.L.	.26 = 0
EXIT REQ.	1

PLANNER 128

OCCUPANT USE	BUSINESS
AREA	130 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

SUPERINT. 127

OCCUPANT USE	BUSINESS
AREA	130 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

STOR. 126

OCCUPANT USE	ACCESSORY
AREA	24 SF
LOAD	300 GROSS
O.L.	.06 = 0
EXIT REQ.	1

ELECT. RM 123

OCCUPANT USE	ACCESSORY
AREA	83 SF
LOAD	300 GROSS
O.L.	.26 = 0
EXIT REQ.	1

CUBICLES 125

OCCUPANT USE	BUSINESS
AREA	168 SF
LOAD	150 GROSS
O.L.	1.1 = 1
EXIT REQ.	1

MOM'S ROOM 111

OCCUPANT USE	ACCESSORY
AREA	43 SF
LOAD	300
O.L.	.14 = 0
EXIT REQ.	1

STORAGE 112

OCCUPANT USE	ACCESSORY
AREA	116 SF
LOAD	300
O.L.	.38 = 0
EXIT REQ.	1

STORAGE 113

OCCUPANT USE	ACCESSORY
AREA	43 SF
LOAD	300
O.L.	.14 = 0
EXIT REQ.	1

SUPERINT. 103

OCCUPANT USE	BUSINESS
AREA	132 SF
LOAD	150 GROSS
O.L.	.86 = 1
EXIT REQ.	1

STOR. 105

OCCUPANT USE	ACCESSORY
AREA	24 SF
LOAD	300 GROSS
O.L.	.08 = 0
EXIT REQ.	1

CORRIDOR 104

OCCUPANT USE	CORRIDOR
AREA	100 SF
LOAD	0
O.L.	0
EXIT REQ.	0

SUPERVISOR 106

OCCUPANT USE	BUSINESS
AREA	110 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

SUPERVISOR 107

OCCUPANT USE	BUSINESS
AREA	110 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

FORMEN AND TECHS "BULL PEN" 109

OCCUPANT USE	BUSINESS
AREA	645 SF
LOAD	150 GROSS
O.L.	4.3 = 4
EXIT REQ.	1

PARK RANGERS "BULL PEN" 110

OCCUPANT USE	BUSINESS
AREA	646 SF
LOAD	150 GROSS
O.L.	4.3 = 4
EXIT REQ.	1

CUBICLES 116

OCCUPANT USE	BUSINESS
AREA	279 SF
LOAD	150 GROSS
O.L.	1.86 = 2
EXIT REQ.	1

STOR/SAFE RM. 117

OCCUPANT USE	ACCESSORY
AREA	24 SF
LOAD	300 GROSS
O.L.	.06 = 0
EXIT REQ.	1

SUPERVISOR 119

OCCUPANT USE	BUSINESS
AREA	107 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

SUPERVISOR 118

OCCUPANT USE	BUSINESS
AREA	107 SF
LOAD	150 GROSS
O.L.	.73 = 1
EXIT REQ.	1

JAN. CLO. 122

OCCUPANT USE	ACCESSORY
AREA	41 SF
LOAD	300 GROSS
O.L.	.13 = 0
EXIT REQ.	1

MEN'S RR 120

OCCUPANT USE	ACCESSORY
AREA	155 SF
LOAD	300 GROSS
O.L.	.53 = 1
EXIT REQ.	1

WOMEN'S RR 121

OCCUPANT USE	ACCESSORY
AREA	155 SF
LOAD	300 GROSS
O.L.	.53 = 1
EXIT REQ.	1

SUPERVISOR 124

OCCUPANT USE	BUSINESS
AREA	116 SF
LOAD	150 GROSS
O.L.	.80 = 1
EXIT REQ.	1

CORRIDOR 114

OCCUPANT USE	CORRIDOR
AREA	1185 SF
LOAD	0
O.L.	0
EXIT REQ.	0

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10/22/2025

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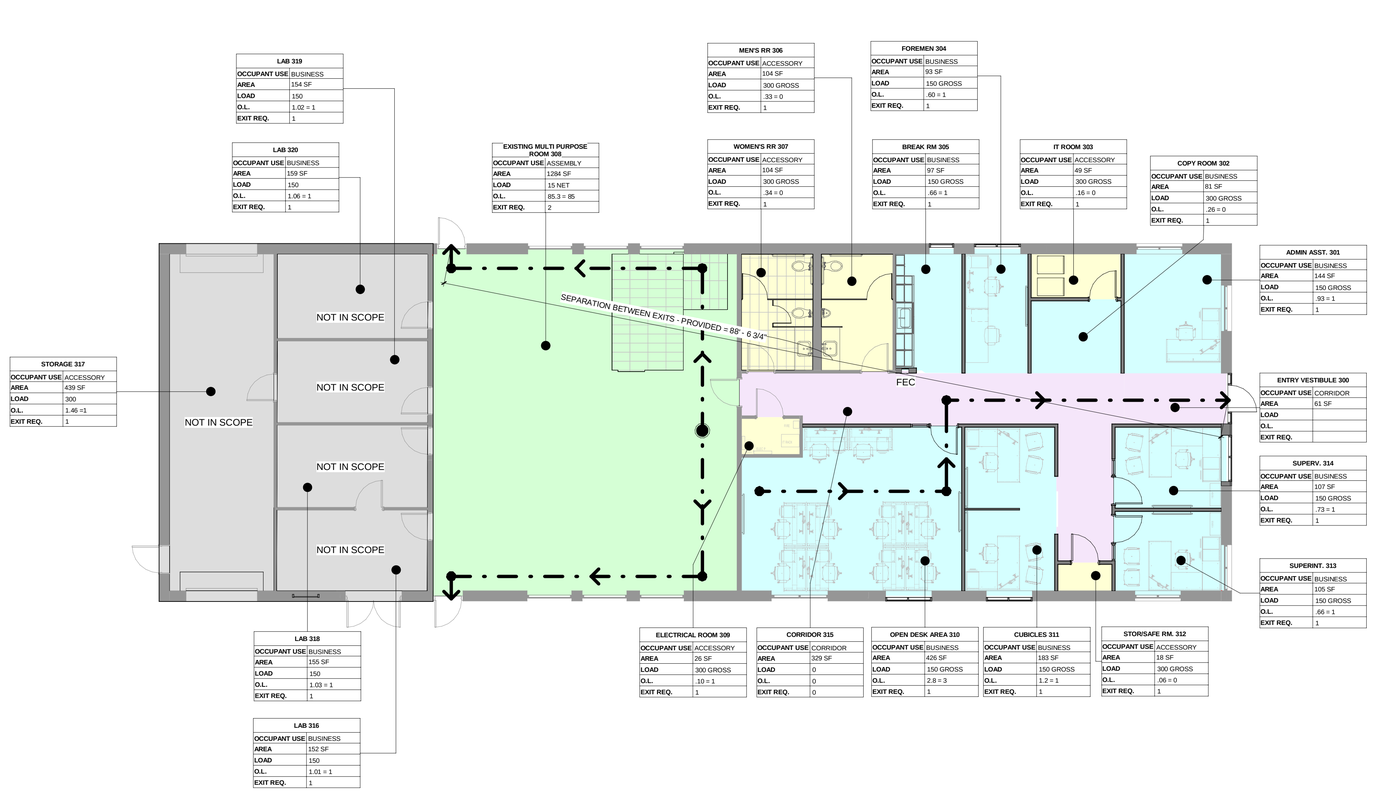
BLDG A & C LIFE SAFETY

G101

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"BLDG A" & "BLDG C" LIFE SAFETY
1/8" = 1'-0"

1



OCCUPANCY ROOM AREAS

ACCESSORY	STORAGE AREAS , MECHANICAL EQUIPMENT ROOM
ASSEMBLY	UNCONCENTRATED (TABLES AND CHAIRS)
BUSINESS	SPACES WITH FUNCTION AS NOTED
CORRIDOR	SERVICE SPACE WITH NO OCCUPANT LOAD
	NOT IN SCOPE AREAS

LEGEND

X'-X"	DESIGNATES THE MOST REMOTE POINT FOR THE COMMON PATH OF EGRESS. DISTANCE SHOWN IS COMMON PATH OF EGRESS ONLY. <75'
X'-X"	DESIGNATES TWO SEPARATE PATHS OF EGRESS. DISTANCE SHOWN IS FOR THE ENTIRE EXIT ACCESS TRAVEL DISTANCE AND INCLUDES THE COMMON PATH OF EGRESS. PER TABLE 1017.2, X<200' WITHOUT A SPRINKLER SYSTEM.
FEC	FULLY RECESSED FIRE EXTINGUISHER CABINET. MANUFACTURER: POTTER ROEMER BUENA SERIES FULLY RECESSED (OR EQUAL) SIZE: 9" x 24 x 5" CABINET COLOR: WHITE GLASS DOOR COLOR: SMOKE LETTERING: WHITE LETTERING VERTICAL
	EMERGENCY EXIT SIGN. SEE ELECTRICAL SHEETS FOR ADDITIONAL EMERGENCY EGRESS LIGHTS.
	PATH OF EGRESS TRAVEL.

"BLDG B" LIFE SAFETY

1/8" = 1'-0"

1

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	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPTON 18795 STATE OF TEXAS

10/22/2025

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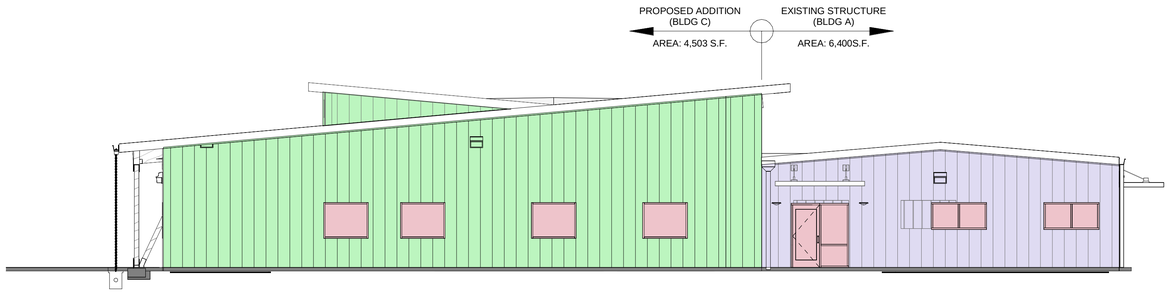
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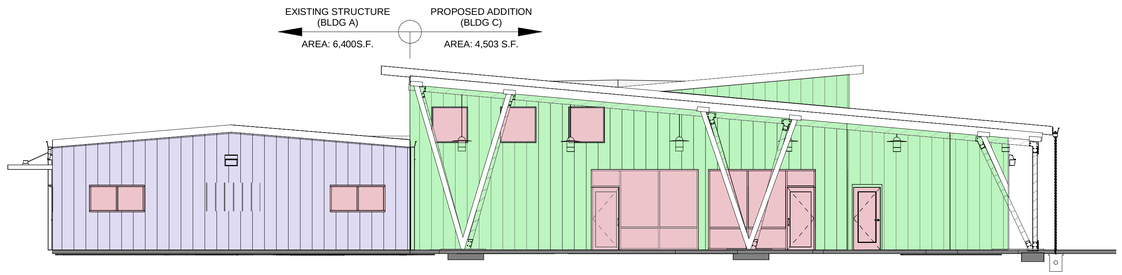
BLDG B LIFE SAFETY

G102

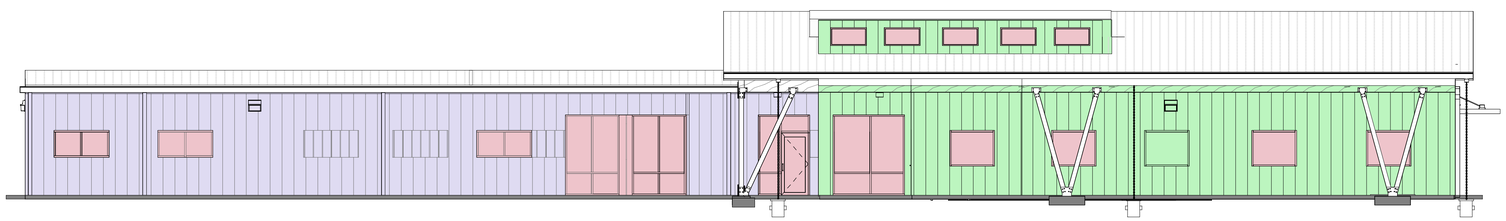
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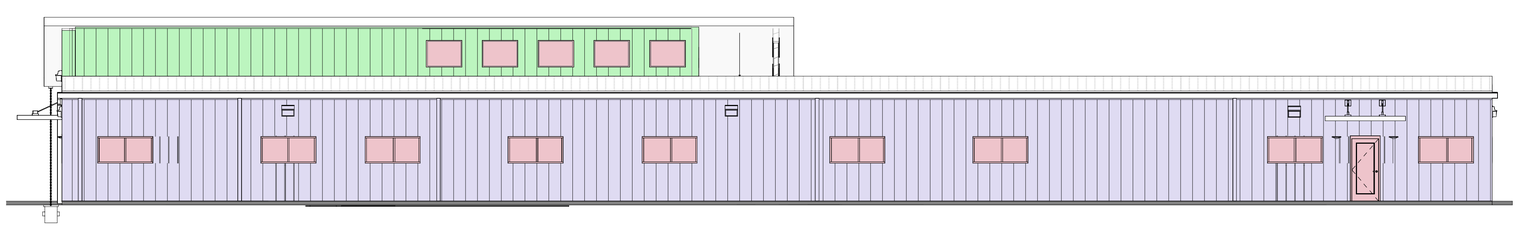
WEST ELEVATION
1/8" = 1'-0"
4



EAST ELEVATION
1/8" = 1'-0"
3



SOUTH ELEVATION
1/8" = 1'-0"
2



NORTH ELEVATION
1/8" = 1'-0"
1

COMCHECK EXHIBIT NOTES:

GENERAL CONTRACTOR TO PROVIDE CLOSE-OUT DOCUMENTATION FOR THE FOLLOWING

A. CONSTRUCTION DOCUMENTS SHALL BE UPDATED TO CONVEY A RECORD OF THE COMPLETED WORK. SUCH UPDATES SHALL INCLUDE MECHANICAL, ELECTRICAL AND CONTROL DRAWINGS THAT INDICATE ALL CHANGES TO SIZE, TYPE AND LOCATION OF COMPONENTS, EQUIPMENT AND ASSEMBLIES.

B. COPY OF COMCHECKS ENVELOPE, LIGHTING AND MECHANICAL.

C402.5.1.1 AIR BARRIER CONSTRUCTION. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:

1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.

2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.

3. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. SEALING SHALL ALLOW FOR EXPANSION, CONTRACTION AND MECHANICAL VIBRATION. JOINTS AND SEAMS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED. SEALING MATERIALS SHALL BE SECURELY INSTALLED AROUND THE PENETRATION SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.

4. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. WHERE SIMILAR OBJECTS ARE INSTALLED THAT PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.

C402.5.2 AIR LEAKAGE OF FENESTRATION. THE AIR LEAKAGE OF FENESTRATION ASSEMBLIES SHALL MEET THE PROVISIONS OF TABLE C402.5.2. TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REFERENCE TEST STANDARD IN TABLE C402.5.2 BY AN ACCREDITED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER.

C103.6 BUILDING DOCUMENTATION AND CLOSEOUT SUBMITTAL REQUIREMENTS. THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS
SECTION BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C103.6.1 RECORD DOCUMENTS. CONSTRUCTION DOCUMENTS SHALL BE UPDATED TO CONVEY A RECORD OF THE COMPLETED WORK. SUCH UPDATES SHALL INCLUDE
MECHANICAL, ELECTRICAL AND CONTROL DRAWINGS THAT INDICATE ALL CHANGES TO SIZE, TYPE AND LOCATION OF COMPONENTS, EQUIPMENT AND ASSEMBLIES.

C103.6.2 COMPLIANCE DOCUMENTATION. ENERGY CODE COMPLIANCE DOCUMENTATION AND SUPPORTING CALCULATIONS SHALL BE DELIVERED IN ONE DOCUMENT TO THE
BUILDING OWNER AS PART OF THE PROJECT RECORD DOCUMENTS OR MANUALS, OR AS A STANDALONE DOCUMENT. THIS DOCUMENT SHALL INCLUDE THE SPECIFIC ENERGY
CODE EDITION UTILIZED FOR COMPLIANCE DETERMINATION FOR EACH SYSTEM, DOCUMENTATION DEMONSTRATING COMPLIANCE WITH SECTION C303.1.3 FOR EACH
FENESTRATION PRODUCT INSTALLED, AND THE INTERIOR LIGHTING POWER COMPLIANCE PATH, BUILDING AREA OR SPACE-BY-SPACE, USED TO CALCULATE THE LIGHTING
POWER ALLOWANCE.

FOR PROJECTS COMPLYING WITH ITEM 2 OF SECTION C401.2, THE DOCUMENTATION SHALL INCLUDE:

1. THE ENVELOPE INSULATION COMPLIANCE PATH.

2. ALL COMPLIANCE CALCULATIONS INCLUDING THOSE REQUIRED BY SECTIONS C402.1.5, C403.8.1, C405.3 AND C405.4.

FOR PROJECTS COMPLYING WITH SECTION C407, THE DOCUMENTATION SHALL INCLUDE THAT REQUIRED BY SECTIONS C407.4.1 AND C407.4.2.

C103.6.3 SYSTEMS OPERATION CONTROL. TRAINING SHALL BE PROVIDED TO THOSE RESPONSIBLE FOR MAINTAINING AND OPERATING EQUIPMENT INCLUDED IN THE MANUALS
REQUIRED BY SECTION C103.6.2.

THE TRAINING SHALL INCLUDE:

1. REVIEW OF MANUALS AND PERMANENT CERTIFICATE.
2. HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND STARTUP PROCEDURES.
3. TRAINING COMPLETION REPORT.

DOOR AND FRAME:

PAINTED STEEL, HEAVY GAUGE
WELDED FRAME.

STOREFRONT AND WINDOW:

THE CONTRACTOR MUST PROVIDE A NFRC CMA CERTIFICATE FOR THE STOREFRONT AND ENTRY SYSTEMS AS INSTALLED. THE CONTRACTOR IS ENCOURAGED TO PROVIDE THE CERTIFICATES WITH THE STOREFRONT SYSTEM SUBMITTALS TO ENSURE THE PROJECT IS NOT DELAYED AT PROJECT/PERMIT CLOSE OUT.

"BLDG A & C" FENESTRATION AREA SCHEDULE

ELEVATION	GROSS AREA	STOREFRONT	DOORS	TOTAL	PERCENT
NORTH	529.86	140.18	N/A	140.18	3.78%
EAST	1405.71	264.00	N/A	264.00	5.32%
SOUTH	1329.40	403.00	N/A	403.00	3.30%
WEST	1286.27	144.55	N/A	144.55	8.90%

LEGEND:

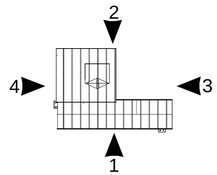
EXISTING/ EXEMPT

PROPOSED BUILDING

PROPOSED WINDOWS AND DOORS

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID



REGISTERED ARCHITECT
JERRY TIPPS
18756
STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number: 24026
Sheet Size: 24 x 36
Date / Time Plotted: 10/23/2025 5:36:13 PM
Drawn By: RW/AV
Checked By: JT/RM
Project Phase: PERMIT ISSUE

BLDG A & BLDG C
COMCHECK EXHIBIT

G103

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COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	24026 Pardes - Woodlands Building A+C
Location:	Houston, Texas
Climate Zone:	2a
Project Type:	Addition
Vertical Glazing / Wall Area:	30%

Construction Site:
8203 Millennium Forest Street
The Woodlands, Texas 77381

Owner/Agent:
Mitch Hall
Parks and Recreation Department
2801 Technology Forest Blvd.
The Woodlands, Texas 77381
281-210-3908
mhall@thewoodlandstownship-tx.gov

Designer/Contractor:
Jerry Tipps
Heights Venture Architecture
1111 North Loop West, Suite 800
Houston, Texas 77008
2818546101
Jerry.Tipps@hva.cc

Building Area	Floor Area
1-Office : Nonresidential	10350

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{tot}$
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Office] (c)	675	---	---	0.730	0.730
NORTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	382	0.0	11.0	0.072	0.077
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	166	---	---	0.290	0.450
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	24	---	---	0.290	0.770
EAST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	1141	0.0	11.0	0.072	0.077
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	257	---	---	0.290	0.450
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	72	---	---	0.290	0.770
SOUTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	1054	0.0	11.0	0.072	0.077
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	399	---	---	0.290	0.450
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	24	---	---	0.290	0.770
WEST					

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{tot}$
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	1141	0.0	11.0	0.072	0.077
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	140	---	---	0.290	0.450
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Vitro Solarban 90, SHGC 0.23, [Bldg. Use 1 - Office] (b)	24	---	---	0.290	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 19% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope 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: JERRY TIPPS, AIA, LEED-AP PARKS & REC
Signature: TX REG # 18756
Date: 10-23-2025

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% 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 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to Construction Documents
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet G103 -G108
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4][2]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A401 - A404, A501 - A506
C105 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7][2]	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

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

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][2]	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet G103 - G108
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.5 [FR14][2]	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [FR16][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A401 - A404, A501 - A506
C402.5.4 [FR18][3]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS
10/22/2025

Heights Venture ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 5:38:34 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & BLDG C" COMCHECK ENVELOPE

G104

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Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A401 - A404, A501 - A506
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][3]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A401 - A404, A501 - A506

Additional Comments/Assumptions:

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

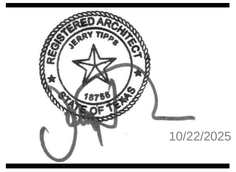
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C401.3 [FI58][1]	A thermal envelope certificate will be supplied and completed by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.10 [FI26][3]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.11 [FI59][1]	Operable openings > 40 ft2 will be interlocked with heating and cooling systems to setback setpoint temperatures within 10 minutes of opening.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.8 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID



10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
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Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 5:39:01 PM

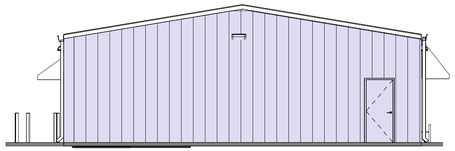
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

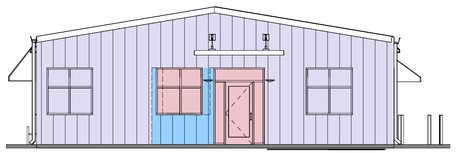
"BLDG A & BLDG C"
COMCHECK
ENVELOPE

G105

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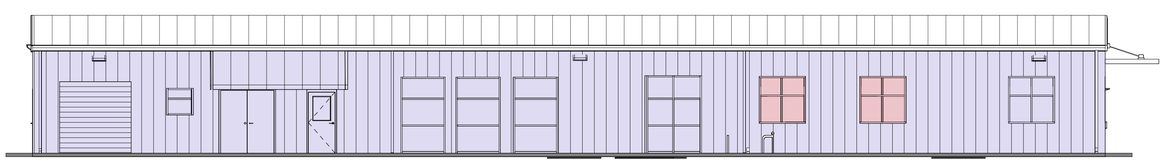
WEST ELEVATION 4
1/8" = 1'-0"



EAST ELEVATION 3
1/8" = 1'-0"



SOUTH ELEVATION 2
1/8" = 1'-0"



NORTH ELEVATION 1
1/8" = 1'-0"

COMCHECK EXHIBIT NOTES:

GENERAL CONTRACTOR TO PROVIDE CLOSE-OUT DOCUMENTATION FOR THE FOLLOWING

A. CONSTRUCTION DOCUMENTS SHALL BE UPDATED TO CONVEY A RECORD OF THE COMPLETED WORK. SUCH UPDATES SHALL INCLUDE MECHANICAL, ELECTRICAL AND CONTROL DRAWINGS THAT INDICATE ALL CHANGES TO SIZE, TYPE AND LOCATION OF COMPONENTS, EQUIPMENT AND ASSEMBLIES.

B. COPY OF COMCHECKS ENVELOPE, LIGHTING AND MECHANICAL.

C402.5.1.1 AIR BARRIER CONSTRUCTION. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:

1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.

2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.

3. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. SEALING SHALL ALLOW FOR EXPANSION, CONTRACTION AND MECHANICAL VIBRATION. JOINTS AND SEAMS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED. SEALING MATERIALS SHALL BE SECURELY INSTALLED AROUND THE PENETRATION SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.

4. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. WHERE SIMILAR OBJECTS ARE INSTALLED THAT PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.

C402.5.2 AIR LEAKAGE OF FENESTRATION. THE AIR LEAKAGE OF FENESTRATION ASSEMBLIES SHALL MEET THE PROVISIONS OF TABLE C402.5.2. TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REFERENCE TEST STANDARD IN TABLE C402.5.2 BY AN ACCREDITED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER.

C103.6 BUILDING DOCUMENTATION AND CLOSEOUT SUBMITTAL REQUIREMENTS. THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS
SECTION BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C103.6.1 RECORD DOCUMENTS. CONSTRUCTION DOCUMENTS SHALL BE UPDATED TO CONVEY A RECORD OF THE COMPLETED WORK. SUCH UPDATES SHALL INCLUDE
MECHANICAL, ELECTRICAL AND CONTROL DRAWINGS THAT INDICATE ALL CHANGES TO SIZE, TYPE AND LOCATION OF COMPONENTS, EQUIPMENT AND ASSEMBLIES.

C103.6.2 COMPLIANCE DOCUMENTATION. ENERGY CODE COMPLIANCE DOCUMENTATION AND SUPPORTING CALCULATIONS SHALL BE DELIVERED IN ONE DOCUMENT TO THE
BUILDING OWNER AS PART OF THE PROJECT RECORD DOCUMENTS OR MANUALS, OR AS A STANDALONE DOCUMENT. THIS DOCUMENT SHALL INCLUDE THE SPECIFIC ENERGY
CODE EDITION UTILIZED FOR COMPLIANCE DETERMINATION FOR EACH SYSTEM, DOCUMENTATION DEMONSTRATING COMPLIANCE WITH SECTION C303.1.3 FOR EACH
FENESTRATION PRODUCT INSTALLED, AND THE INTERIOR LIGHTING POWER COMPLIANCE PATH, BUILDING AREA OR SPACE-BY-SPACE, USED TO CALCULATE THE LIGHTING
POWER ALLOWANCE.

FOR PROJECTS COMPLYING WITH ITEM 2 OF SECTION C401.2, THE DOCUMENTATION SHALL INCLUDE:

1. THE ENVELOPE INSULATION COMPLIANCE PATH.

2. ALL COMPLIANCE CALCULATIONS INCLUDING THOSE REQUIRED BY SECTIONS C402.1.5, C403.8.1, C405.3 AND C405.4.

FOR PROJECTS COMPLYING WITH SECTION C407, THE DOCUMENTATION SHALL INCLUDE THAT REQUIRED BY SECTIONS C407.4.1 AND C407.4.2.

C103.6.3 SYSTEMS OPERATION CONTROL. TRAINING SHALL BE PROVIDED TO THOSE RESPONSIBLE FOR MAINTAINING AND OPERATING EQUIPMENT INCLUDED IN THE MANUALS
REQUIRED BY SECTION C103.6.2.

THE TRAINING SHALL INCLUDE:

1. REVIEW OF MANUALS AND PERMANENT CERTIFICATE.
2. HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND STARTUP PROCEDURES.
3. TRAINING COMPLETION REPORT.

DOOR AND FRAME:

PAINTED STEEL, HEAVY GAUGE
WELDED FRAME.

STOREFRONT AND WINDOW:

THE CONTRACTOR MUST PROVIDE A NFRC CMA CERTIFICATE FOR THE STOREFRONT AND ENTRY SYSTEMS AS INSTALLED. THE CONTRACTOR IS ENCOURAGED TO PROVIDE THE CERTIFICATES WITH THE STOREFRONT SYSTEM SUBMITTALS TO ENSURE THE PROJECT IS NOT DELAYED AT PROJECT/PERMIT CLOSE OUT.

"BLDG B" FENESTRATION AREA SCHEDULE

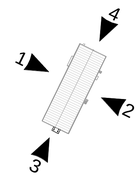
ELEVATION	GROSS AREA	STOREFRONT	DOORS	TOTAL	PERCENT
NORTH	54.25	54.25	N/A	54.25	1.00%
EAST	75.77	75.77	N/A	75.77	1.00%
SOUTH	41.56	41.56	N/A	41.56	1.00%
WEST	0	0	N/A	0	0.00%

LEGEND:

- EXISTING/ EXEMPT
- FILL TO MATCH EXISTING STRUCTURE (EXEMPT)
- PROPOSED BUILDING
- PROPOSED WINDOWS AND DOORS

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18789 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

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Drawn By: RW/AV
Checked By: JT/RM
Project Phase: PERMIT ISSUE

"BLDG B" COMCHECK EXHIBIT

G106

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COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	24026 Pardes - Woodlands Building B
Location:	Houston, Texas
Climate Zone:	2a
Project Type:	Alteration
Vertical Glazing / Wall Area:	4%

Construction Site:
8203 Millennium Forest Street
The Woodlands, Texas 77381

Owner/Agent:
Mitch Hall
Parks and Recreation Department
8203 Millennium Forest Street
The Woodlands, Texas 77381
281-210-3908
mhall@thewoodlandstownship-tx.gov

Designer/Contractor:
Jerry Tipps
Heights Venture Architecture
1111 North Loop West, Suite 800
Houston, Texas 77008
281-854-6101
Jerry.Tipps@hva.cc

Building Area	Floor Area
1-Office : Nonresidential	4800

Envelope Assemblies

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Office]	---	---	0.730	---	0.730	---
NORTH						
Ext. Wall: Metal Building Wall, [Bldg. Use 1 - Office], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Window: Metal Frame with Thermal Break: Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Office]	---	---	0.290	0.230	0.450	0.252
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Entrance Door, Entrance Door, [Bldg. Use 1 - Office]	---	---	0.290	0.230	0.770	0.252
EAST						
Ext. Wall: Metal Building Wall, [Bldg. Use 1 - Office], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Window: Metal Frame with Thermal Break: Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Office]	---	---	0.290	0.230	0.450	0.252
SOUTH						
Ext. Wall: Metal Building Wall, [Bldg. Use 1 - Office], Exemption: Framing cavity not exposed.	---	---	---	---	---	---
WEST						
Ext. Wall: Metal Building Wall, [Bldg. Use 1 - Office], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Window: Metal Frame with Thermal Break: Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Office]	---	---	0.290	0.230	0.450	0.252

(a) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES

Envelope Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope 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.

Jerry Tipps, AIA, LEED-AP
Name - Title

Signature

04/01/2025
Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% 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 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to Construction Documents
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet G104 - G106
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4][2]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A404-A405, A502 & A505-A506
C105 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7][2]	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

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

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][2]	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet G104 - G106
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.5 [FR14][2]	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [FR16][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A404-A405, A502 & A505-A506
C402.5.4 [FR18][3]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18735 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
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Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 5:39:54 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG B" COMCHECK ENVELOPE

G107

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Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A404-A405, A502 & A505-A506
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][3]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Refer to sheet A404-A405, A502 & A505-A506

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C401.3 [FI58][1]	A thermal envelope certificate will be supplied and completed by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.10 [FI26][3]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C402.5.8 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPTON 18735 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 5:40:48 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG B" COMCHECK ENVELOPE

G108

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COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	Woodlands Pardes
Location:	Spring, Texas
Climate Zone:	2a
Project Type:	Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity **System Type & Description**

1 FCU-1 (Single Zone):
Cooling: 1 each - Split System, Capacity = 53 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 FCU-2 (Single Zone):
Cooling: 1 each - Split System, Capacity = 34 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 FCU-3 (Single Zone):
Cooling: 1 each - Split System, Capacity = 29 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 FCU-4 (Single Zone):
Cooling: 1 each - Split System, Capacity = 32 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 FCU-5 (Single Zone):
Cooling: 1 each - Split System, Capacity = 31 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 FCU-6 (Single Zone):
Cooling: 1 each - Split System, Capacity = 53 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 Water Heater:
Electric Instantaneous Water Heater, Capacity: 0 gallons
No minimum efficiency requirement applies

Mechanical Compliance Statement

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

Thomas A. Franklin — Name - Title
Signature
07/25/2025 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* 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 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐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)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.12.3 [ME61][2]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.1 [ME65][3]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.3 [ME117][2]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][2]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][2]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][2]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][2]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.13.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.12.1, C403.12.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h ~ 50% >240 kBtu/h ~ 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.3, C403.11.3.1, C403.11.3.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐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)

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPTON 18785 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
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281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number: 24026
Sheet Size: 24 x 36
Date / Time Plotted: 10/23/2025 5:41:13 PM
Drawn By: RW/AV
Checked By: JT/RM
Project Phase: PERMIT ISSUE

MECHANICAL COMCHECK

G109

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][3]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Air-over electric motors. **Location on plans/spec:** n/a
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E2.01AC & E2.01B see these sheets for control outlet requirements
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E2.01AC & E2.01B see these sheets for control outlet requirements

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.1.1 [FI50][3]	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.3.1 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.1, C403.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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

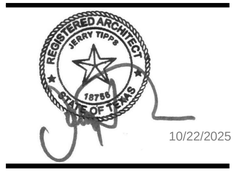
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID



10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 5:41:40 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

MECHANICAL COMCHECK

G110

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COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Woodlands Pardes
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-BLDG A/C (Office)	11180	0.64	7155
2-BLDG B (Office)	4400	0.64	2816
		Total Allowed Watts =	9971

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
BLDG A/C (Office, 11180 sq.ft.)				
LED: C1: Other:	1	23	16	368
LED: C2-1: Other:	1	12	12	144
LED: C2-2: Other:	1	10	21	210
LED: L2-10: Other:	1	4	32	128
LED: L2-9: Other:	1	38	28	1064
LED: S1-3: Other:	1	41	24	984
LED: H1: Other:	1	36	2	86
LED: R1-9: Other:	1	2	22	44
LED: L3: Other:	1	9	184	1656
LED: P2: Other:	1	9	40	360
LED: P4: Other:	1	8	102	816
LED: P5: Other:	1	10	136	1360
LED: S3: Other:	1	7	31	217
LED: R1-14: Other:	1	2	34	68
BLDG B (Office, 4400 sq.ft.)				
LED: S2: Other:	1	16	36	576
LED: C1: Other:	1	9	16	144
LED: C2-1: Other:	1	10	12	120
LED: S1-3: Other:	1	11	24	264
LED: L2-5: Other:	1	9	16	144
LED: L2-9: Other:	1	8	28	224
LED: S1-5: Other:	1	4	40	160
LED: L2-6: Other:	1	1	18	18
LED: L1: Other:	1	2	3	6
		Total Proposed Watts =		9161

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.

Michael J. Walsh — Name - Title
Signature
07/28/2025 — Date



COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Woodlands Pardes
Project Type: Alteration
Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
BLDG A/C (Illuminated area of facade wall or surface)	4330 ft2	0.07	No	325
BLDG A/C (Entry canopy)	80 ft2	0.25	Yes	20
BLDG A/C (Entry canopy)	1012 ft2	0.25	Yes	253
BLDG B (Illuminated area of facade wall or surface)	3200 ft2	0.07	No	240
BLDG B (Entry canopy)	60 ft2	0.25	Yes	15
			Total Tradable Watts (a) =	288
			Total Allowed Watts =	853
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
BLDG A/C (Illuminated area of facade wall or surface, 4330 ft2): Non-tradable Wattage				
LED: WP: Other:	1	9	49	440
BLDG A/C (Entry canopy, 80 ft2): Tradable Wattage				
LED: WS: Other:	1	4	16	64
BLDG A/C (Entry canopy, 1012 ft2): Tradable Wattage				
LED: Other:	1	7	50	350
BLDG B (Illuminated area of facade wall or surface, 3200 ft2): Non-tradable Wattage				
LED: WP: Other:	1	7	49	342
BLDG B (Entry canopy, 60 ft2): Tradable Wattage				
LED: DW: Other:	1	2	16	32
			Total Tradable Proposed Watts =	446

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior 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.

Michael J. Walsh — Name - Title
Signature
07/28/2025 — Date



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 with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E8.03 See fixture schedule
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E8.03 See fixture schedule

Additional Comments/Assumptions:

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

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 reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B Time clock added for exterior lighting
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B sensors added where required
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B sensors added in open office areas
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B Time clock added for non sensor lighting

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

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTON 18785 STATE OF TEXAS

10/22/2025

Heights Venture ARCHITECTURE DESIGN

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number: 24026
Sheet Size: 24 x 36
Date / Time Plotted: 10/23/2025 5:42:04 PM
Drawn By: RW/AV
Checked By: JT/RM
Project Phase: PERMIT ISSUE

LIGHTING COMCHECK

G111

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][3]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B special function lighting separate for other lighting.
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E3.01AC & E3.01B Time clock added for exterior lighting
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Air-over electric motors. **Location on plans/spec:** n/a
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E2.01AC & E2.01B see these sheets for control outlet requirements
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** n/a
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E2.01AC & E2.01B see these sheets for control outlet requirements

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E0.01 See lighting commissioning general notes

Additional Comments/Assumptions:

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

THE WOODLANDS TOWNSHIP

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10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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Drawn By:	Checked By:
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Project Phase: PERMIT ISSUE

LIGHTING COMCHECK

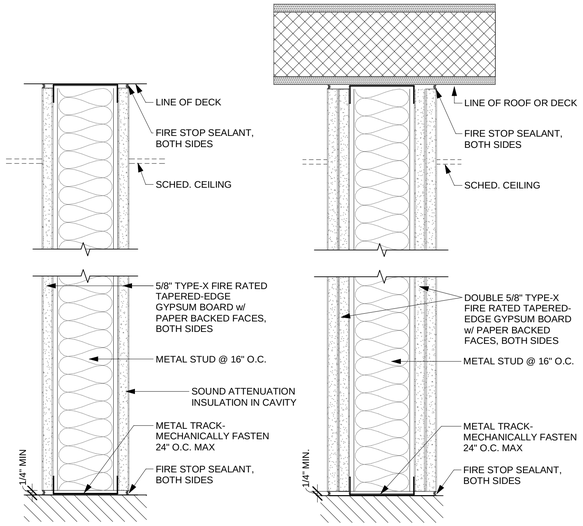
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STUD SIZE

-1	1 5/8" METAL STUD
-2	2 1/2" METAL STUD
-3	3 5/8" METAL STUD
-4	4" METAL STUD
-5	4" CT STUD
-6	6" METAL STUD
-7	7/8" DRYWALL HAT CHANNEL
-8	8" METAL STUD
-9	1/2" RESILIENT CHANNEL
-10	6 1/2" SIPS PANEL

WALL PARTITION TYPE

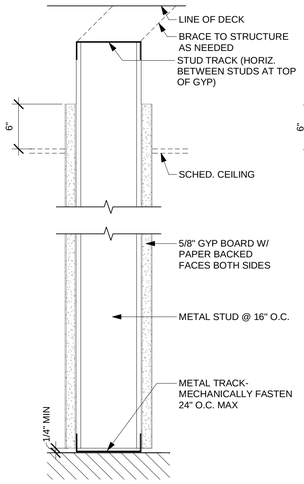


T-

1-HR STANDARD BASE
UL DESIGN U465

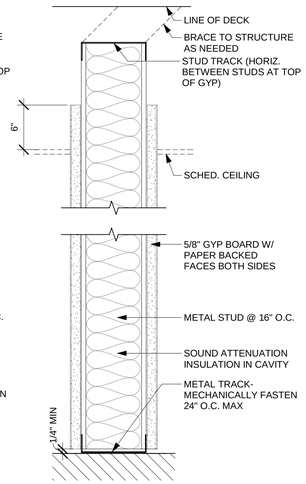
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2-HR STANDARD BASE
UL DESIGN U419



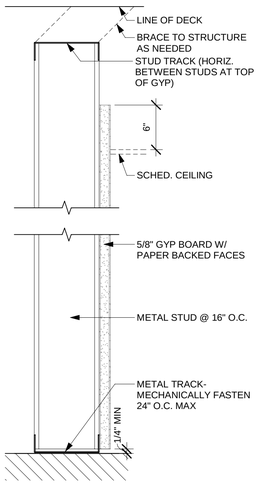
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@ SIM. USE WATER MOISTURE RESISTANT GYP. BOARD AT RESTROOM SIDE



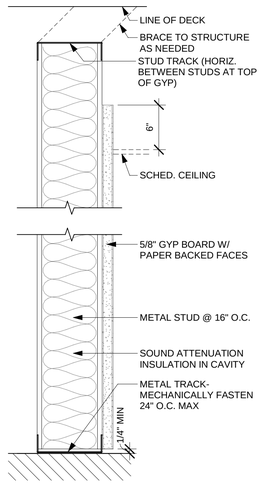
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@ SIM. USE WATER MOISTURE RESISTANT GYP. BOARD AT RESTROOM SIDE



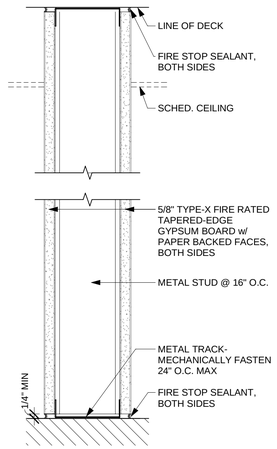
J-

@ SIM. USE WATER MOISTURE RESISTANT GYP. BOARD AT RESTROOM SIDE



K-

@ SIM. USE WATER MOISTURE RESISTANT GYP. BOARD AT RESTROOM SIDE



M-

@ SIM. USE WATER MOISTURE RESISTANT GYP. BOARD AT RESTROOM SIDE

N-

SIPS SYSTEM W/1 5/8" METAL STUD AND 5/8" GYP. BD.

PARTITION TYPES N.T.S. 01

PARTITION NOTES

A. FOR PRICING PURPOSES, ALL UNIDENTIFIED INTERIOR PARTITIONS ARE TYPE **G6** UNLESS INDICATED OTHERWISE ON FLOOR PLANS. SEE FLOOR PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS.

B. G.C. TO FRAME ALL WALLS @ 16" O.C., TYP. U.N.O.

C. PROVIDE CONTROL JOINTS IN GYP. BD. AS SHOWN ON PLANS, OR AS REQ'D BY MFR OR LOCAL REQUIREMENTS. ADVISE ARCHITECT OF PROPOSED LOCATIONS OF CJs PRIOR TO INSTALLATION. MAINTAIN REQ'D FIRE RATING

D. GYPSUM BOARD PARTITIONS: DETAILS INDICATE TYPICAL GYPSUM BOARD PANEL MATERIALS. SUBSTITUTE OTHER BOARD MATERIALS FOR TOP LAYER OF GYPSUM BOARD AS REQUIRED BY FINISH PLANS. (E.G. MOISTURE RESISTANT GYP. BD. OR CEMENTITIOUS TILE BACKER BOARD AT WALL TILE). PROVIDE CLASSIFIED MATERIALS AT FIRE RATED PARTITIONS.

E. MASONRY PARTITIONS: PROVIDE LATERAL SUPPORT SUCH THAT UNSUPPORTED LENGTH/THICKNESS AND UNSUPPORTED HEIGHT/THICKNESS RATIO DOES NOT EXCEED L/360.

F. FIRE RATED PARTITIONS: COMPLY WITH REQUIREMENTS OF DESIGNATED UL ASSEMBLY AS LISTED IN UL FIRE RESISTANCE DIRECTORY.
   a. WHEN FIRE RATED PARTITIONS INTERSECT WITH NON-RATED PARTITIONS, CARRY FIRE RATED ASSEMBLY THROUGH NON-RATED CONSTRUCTION.
   b. CUTOUTS FOR ELECTRIC DEVICES ON OPPOSITE SIDES OF PARTITION IN SAME STUD SPACE, WITHIN 24" NOT ALLOWED UNLESS WALL OPENING PROTECTIVE MATERIAL IS USED PRIOR TO WALL CLOSURE (*HILTI CP-617, CP-617-L, FIRE STOP PUTTY PAD*).
   c. FIRESTOPPING AND FIRE SAFING: PROVIDE UL LISTED PENETRATION AND JOINT SYSTEMS AT PENETRATIONS AND TERMINATIONS IN ACCORDANCE WITH SPECS AND SCHEDULE BELOW.
   d. ENSURE CONTINUITY OF FIRE RATED ENCLOSURES.

G. FULL HEIGHT PARTITIONS: PROVIDE FOR DEFLECTION OF STRUCTURE AT TERMINATION OF PARTITION WITH STRUCTURE ABOVE. PROVIDE CONTINUOUS LONG LEG TRACK & SLIP JOINT AT HEAD OF DRYWALL PARTITIONS WHICH EXTEND TO, OR ARE BRACED TO, DECK OR OTHER STRUCTURAL ELEMENTS. **DO NOT ATTACH STUDS TO HEAD TRACK**. CUT GYP. BD. SHORT TO ALLOW FOR DEFLECTION.
   a. FIRED RATED PARTITIONS: PROVIDE FIRE STOPPING AT TOP OF PARTITION TERMINATIONS TO COMPLY WITH FIRE RATED ASSEMBLY REQUIREMENTS AND EXTEND RATING TO STRUCTURAL DECK ABOVE.
   b. ENSURE CONTINUITY OF FIRE RATED ENCLOSURES.

H. PLUMBING CHASE PARTITIONS:
   a. SIDE WITH PLUMBING FIXTURES: PROVIDE NEXT LARGER SIZE STUD IN GAUGES, AND SPACING AS REQUIRED TO PROPERLY SUPPORT FIXTURES.
   b. BRACING: PROVIDE BRACING BETWEEN STUDS ON OPPOSITE SIDES AS RECOMMENDED BY MANUFACTURER.
   c. FIRE RATED PARTITIONS: MAINTAIN FIRE RATED CONSTRUCTION.
   d. ENSURE CONTINUITY OF FIRE RATED ENCLOSURES

I. USE CONCRETE TILE BACKER BOARD AT ALL WET AREAS

J. MECHANICAL CHASE PARTITIONS:
   a. USE SEALANT AT ALL WALLS FORMING CHASES USED FOR AIR TRANSFER TO MAINTAIN AIR TIGHTNESS OF CHASE
   b. FIRE RATED PARTITIONS: MAINTAIN FIRE RATED CONSTRUCTION
   c. ENSURE CONTINUITY OF FIRE RATED ENCLOSURES

K. AT LIMITS OF ANY PRESSURIZED LOBBY, CORRIDORS, ETC. PROVIDE SEALANT, ETC. AS REQ'D FOR SMOKE BARRIER & REQ'D RATING

GENERAL NOTES

A. SOUND ATTENUATION BATT, SIZED TO FIT STUD DEPTH AND CAVITY SIZE.

B. WATER RESISTANT GREENBOARD, **SHALL NOT BE USED**

C. PROVIDE REQUIRED WALL HEAD DETAIL PER

D. PROVIDE CONTROL JOINTS AS REQUIRED IN A6-SERIES SHEETS PER

E. PROVIDE DOOR / WINDOW JAMS AND HEAD DETAILS PER

F. SCHEDULED BASE RE: INTERIOR ELEVATIONS

BLOCKING NOTES

A. ALL WALL MOUNTED BOARDS, EQUIPMENT, PADS, ETC. SHALL BE INSTALLED USING ONE OF THE BLOCKING, SHEATHING, OR STRAPPING METHODS DETAILED ON THIS SHEET

B. A PROPOSED BLOCKING PLAN SHALL BE PREPARED BY THE G.C. PRIOR TO INSTALLATION AND SUBMITTED TO THE ARCHITECT AND OWNER FOR APPROVAL

C. THE G.C. SHALL **NOT** INSTALL ANY WALL SHEATHING PRIOR TO OWNER REVIEW OF INSTALLED BLOCKING, SHEATHING, OR STRAPPING

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

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THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Drawn By:	Checked By:

Project Phase: PERMIT ISSUE

PARTITION TYPES AND DETAILS

G201

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GENERAL NOTES:

1. TOPOGRAPHICAL MAPPING SHOWN PER THE SEPTEMBER 2024 SURVEY COMPLETED BY HALFF ASSOCIATES, INC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLAN TOPOGRAPHY AND THE CURRENT EXISTING CONDITIONS.

2. CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL OF ALL UTILITIES AFFECTED BY CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITIES 48 HOURS PRIOR TO CONSTRUCTION.

3. CONTRACTOR TO NOTIFY THE OWNER AND ENGINEER WHEN ANY DISCREPANCY IS FOUND BETWEEN PLANS AND EXISTING CONDITIONS. IN THE EVENT A DISCREPANCY IS FOUND THE CONTRACTOR WILL MAKE FIELD ADJUSTMENTS TO CORRECT ANY PROBLEM.

4. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ACCESS TO THE CONSTRUCTION SITE, SUBJECT TO APPROVAL FROM THE CLIENT.

5. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENT.

6. EXISTING UTILITIES SHOWN ARE TAKEN FROM AVAILABLE RECORDS PROVIDED BY THE UTILITY OWNER AND FIELD LOCATIONS OF SURFACE APPURTENANCES. LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING FACILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES, WHETHER SHOWN OR NOT, IF DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL EXPENSE.

7. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SIDEWALKS AND ROADS ADJACENT TO THE PROJECT SITE FREE FROM MUD AND DEBRIS FROM THE SITE CONSTRUCTION.

8. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.

9. THE ACCESS AND WORK AREAS SHALL BE SECURED DURING NON-WORKING HOURS.

10. CONTRACTOR IS RESPONSIBLE FOR, AND MUST OBTAIN PRIOR TO CONSTRUCTION, ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY MONTGOMERY COUNTY AND WOODLANDS WATER.

11. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE ERODED AREAS TO ORIGINAL CONDITION OR BETTER.

12. PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES FROM ALL CONTRACTORS, THE ARCHITECT AND THE OWNER.

13. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFIC CONTROL DEVICES", PART VI IN PARTICULAR. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.

14. ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. THIS RESTORATION SHALL BE SUBJECT TO THE OWNER'S APPROVAL; MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REGRASSING, REVEGETATION, REPLACING FENCES, REPLACING TREES, ETC.

15. CONSTRUCTION TRAFFIC ROUTES SHALL BE COORDINATED WITH MONTGOMERY COUNTY AND THE WOODLANDS TOWNSHIP, PRIOR TO CONSTRUCTION. ALL COMPACTED AREAS DUE TO CONSTRUCTION SHALL BE AERATED AND REVEGETATED TO ORIGINAL CONDITION AT NO EXPENSE TO THE CLIENT.

16. PRIOR TO CONSTRUCTION, THE OWNER OR OWNER'S REPRESENTATIVE SHALL APPROVE THE LOCATION OF ALL SILT FENCES.

17. THE CONTRACTOR SHALL USE THE LIMITS OF SILT FENCE AS THE LIMITS OF DISTURBANCE AND ACCESS UNLESS OTHERWISE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

18. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF AREAS TO BE DEMOLISHED.

19. CONTRACTOR SHALL PERFORM WORK IN A MANNER TO ELIMINATE HAZARDS TO PERSONS OR PROPERTY AND AVOID INTERFERENCE WITH ADJACENT AREAS, UTILITIES, AND STRUCTURES.

ACCESSIBLE WALKWAY NOTES

1. ALL WALKWAYS ARE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
2. CROSS SLOPES OF WALKWAYS SHALL NOT EXCEED A GRADIENT OF 2% (0.20 FOOT RISE IN 10.00 FEET OR RUN).
3. LONGITUDINAL SLOPES OF WALKWAYS SHALL NOT EXCEED A GRADIENT OF 5% (0.50 FOOT RISE IN 10.00 FEET OF RUN).
4. WHERE A WALKWAY INTERSECTS ANOTHER WALKWAY, SLAB OR OTHER STRUCTURE, THE CROSS SLOPE AT THE INTERSECTION SHALL NOT EXCEED 1.50% IN ALL DIRECTIONS, NO EXCEPTION.
5. CURB RAMPS SHALL NOT EXCEED 8.33% (0.5 FOOT RISE IN 6.00 FEET OF RUN).
6. RAMPED AREAS SHALL NOT EXCEED 8.33% (0.5 FOOT RISE IN 6.00 FEET OF RUN) WITH A MAX. CROSS SLOPE OF 1.5% (0.15 FOOT RISE IN 10.00 FEET RUN).
7. NO CHANGE IN LEVEL GREATER THAN 1/4 IN. WILL BE ACCEPTED. CHANGES IN LEVEL BETWEEN 1/4 & 1/2 SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2

GRADING NOTES

1. ALL GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE NOTED.
2. TOP OF CURB ELEVATIONS ARE 0.5 FEET HIGHER THAN TOP OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.

TRAFFIC MARKING NOTES

1. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS, OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

CONSTRUCTION LAYOUT/DIMENSION CONTROL NOTES

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR MAY REQUEST THE SURVEY AND DESIGN FILES FOR THE PROJECT, FROM HALFF ASSOCIATES, INC. FOR LAYOUT PURPOSES.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT REGISTERED PROFESSIONAL LAND SURVEYOR TO SET CONTROL AND ELEVATIONS FOR THE ENTIRE PROJECT. THE SURVEYOR SHALL REVIEW THE PLANS THOROUGHLY AND POINT OUT ANY KNOWN OR DISCOVERED DISCREPANCIES TO THE DESIGN CONSULTANT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE SURVEYOR SHALL RUN A TRAVERSE LOOP ON THE SITE. THE SURVEYOR SHALL VERIFY AND CONFIRM IN WRITING TO THE CONTRACTOR THAT THE BENCHMARKS ARE CORRECT WITH REGARD TO THE DIFFERENCE IN THE THEIR ELEVATIONS AND WITH REGARD TO THE ELEVATIONS OF AT LEAST FOUR CHECKPOINTS EVENLY DISTRIBUTED ON THE SITE FOR WHICH ELEVATIONS ARE GIVEN. CHECKPOINTS MAY BE ANY MANMADE OR NATURAL FEATURE THAT CAN BE READILY IDENTIFIED AND MEASURED.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING ALL EXISTING AND PERMANENT UTILITIES.
4. USE DIMENSIONAL INFORMATION PROVIDED ON THE PLANS. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL.
5. MEASUREMENTS ARE TO FACE OF BUILDING, WALL, CURB OR THE FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES ARE INDICATED.
6. FOR DIMENSIONS OF THE BUILDINGS, REFER TO THE ARCHITECTURAL DRAWINGS.
7. THE PLANS FOR THIS PROJECT SHOW PROPOSED ELEVATIONS, SLOPES AND DIMENSIONS THAT ARE INTENDED FOR ACTUAL PLACEMENT. THERE MAY BE SOME INSTANCES WHERE EXISTING CONDITIONS MAKE IT IMPRACTICAL TO ACHIEVE THE IDEAL. IN THOSE INSTANCES, THE DESIGN CONSULTANT WILL ASSIST THE CONTRACTOR IN MAKING PROPER FIELD CHANGES TO ACCOMMODATE SUCH CONDITIONS.
8. INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
9. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES OR OTHER NOTED REFERENCES.
10. PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
11. ALL WALKWAYS SHALL BE LOCATED FROM FINISHED FACE OF BUILDINGS.
12. FOR HANDICAPPED STANDARDS, VERIFY COMPLIANCE WITH LATEST EDITION OF ADA AND LOCAL AND STATE HANDICAP STANDARDS PRIOR TO CONSTRUCTION. WHERE FIELD MODIFICATIONS ARE REQUIRED FOR COMPLIANCE, CONSTRUCTION CHANGES MAY BE APPLIED INCLUDING DIFFERENT GRADES AND LAYOUT THAN THOSE NOTED HEREIN.
13. SURFACES SHALL BE ADA COMPLIANT ALONG ACCESS AND EGRESS. PAVING MATERIALS SHALL HAVE NO ADJACENT SURFACE IRREGULARITIES GREATER THAN 1/4" IN ANY PIECE OR BETWEEN ADJACENT PIECES.

UTILITY NOTES

1. THE CONTRACTOR SHALL NOT ASSUME THAT UTILITIES ARE PRECISELY LOCATED. UTILITIES ARE SHOWN TO HELP MAKE THE CONTRACTOR AWARE OF THEIR EXISTENCE. THIS MEASURE IS TAKEN TO HELP PROTECT THE INVESTMENTS AND SERVICES OF THE OWNERS OF THE UTILITIES AND THEIR CUSTOMERS. CONTRACTOR SHALL CALL "811" FOR HELP IN LOCATING UTILITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OR FACILITIES, OTHER THAN THOSE SHOWN ON THE PLANS, MAY BE PRESENT ON THE SITE OF THE WORK.
3. PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR DESIGN CONSULTANT IF CONFLICTS OR POTENTIAL CONFLICTS OCCUR BETWEEN THE EXISTING UTILITIES AND PROPOSED CONSTRUCTION.
4. PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE AFFECTED PARTS OF THE UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT ALL UTILITIES.
5. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE UTILITY OWNER AND MAKE RESTITUTION FOR ANY UTILITY THAT IS DAMAGED BY THE CONTRACTOR IN THE COURSE OF THE WORK.

STORM DRAINAGE NOTES

1. REFERENCE CITY OF HOUSTON DETAILS ON SHEET C8.00-C8.05 FOR ADDITIONAL NOTES.
2. RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.
3. ALL STORM SEWERS UNDER OR WITHIN 1 FT. OF PROPOSED OR FUTURE PAVEMENTS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT STABILIZED SAND TO WITHIN 1 FT. OF SUBGRADE.
4. ALL STORM SEWER MANHOLES SHALL BE AS PER CITY OF HOUSTON STANDARDS UNLESS OTHERWISE NOTED. RACK OVER MANHOLE TO MISS PROPOSED CURB IF CONFLICT EXISTS (MAXIMUM RACK OF 1 FT. PER COURSE OF BRICK).
5. CONTRACTORS SHALL PROVIDE 12-INCH MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND STORM SEWER AND SANITARY SEWER CROSSINGS UNLESS OTHERWISE NOTED.
6. RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY FOR MANHOLES IN PAVEMENT, RIM ELEVATIONS SHALL BE SET AT THE FINISHED GRADE AT EACH MANHOLE LOCATION AFTER FINAL GRADING OF PAVING HAS BEEN COMPLETED. RIM ELEVATIONS FOR MANHOLES IN LANDSCAPED OR GRADED AREAS SHALL BE SET AT 6" ABOVE FINISHED GROUND.

WATER AND WASTEWATER CONSTRUCTION NOTES

1. SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY" RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, SECTION 290.44(E), LATEST PRINTING.
2. CONTRACTORS SHALL PROVIDE 12-INCH MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND STORM SEWER AND SANITARY SEWER CROSSINGS UNLESS OTHERWISE NOTED.
3. UTILITY RELOCATION TO FACILITATE CONSTRUCTION IS CONTRACTOR'S RESPONSIBILITY.
4. SANITARY SEWER PIPE SMALLER THAN 6-INCHES SHALL BE SCHEDULE 40 PVC. PIPES 6-INCH TO 10-INCH SHALL BE SDR 26 PVC AND PIPES 12 AND LARGER TO BE SDR 35 PVC.
5. SANITARY SEWERS TO BE INSTALLED, BEDDED & BACKFILLED PER CITY OF HOUSTON DETAILS AND SPECIFICATIONS.
6. WATER MAINS 4-INCH TO 12-INCH TO BE AWWA C-900, DR 18. WATER MAINS 1-1/2" TO 3" SHALL BE SCH 40 PVC.
7. ALL WATER MAINS TO BE INSTALLED, BEDDED & BACKFILLED PER CITY OF HOUSTON DETAILS AND SPECIFICATIONS.
8. ALL WATER MAINS TO HAVE A 4' MIN. COVER OR AS SPECIFIED BY THE CITY OF HOUSTON.
9. RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY FOR MANHOLES IN PAVEMENT, RIM ELEVATIONS SHALL BE SET AT THE FINISHED GRADE AT EACH MANHOLE LOCATION AFTER FINAL GRADING OF PAVING HAS BEEN COMPLETED. RIM ELEVATIONS FOR MANHOLES IN LANDSCAPED OR GRADED AREAS SHALL BE SET AT 6" ABOVE FINISHED GROUND.

CONSTRUCTION INSPECTION, SUBMITTALS AND TESTING NOTES

1. CONSTRUCTION PROGRESS MEETING DATES, TIMES, LOCATIONS AND FREQUENCY WILL BE ESTABLISHED AT THE PRE-CONSTRUCTION MEETING AS AGREED UPON BY ALL PARTIES INVOLVED.
2. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION REQUIRING ROAD CLOSURE.
3. SUBMITTALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE DESIGN CONSULTANT SUBMITTALS AND SAMPLES OF ALL PRODUCTS AND MATERIALS TO BE USED ON THE PROJECT. SUBMITTALS SHALL BE PROVIDED ON A OFFICIAL LETTER HEAD/TRANSMITTAL FROM THE GENERAL CONTRACTOR AND NUMBERED IN PDF DIGITAL FORMAT AND EMAILED TO PRIME DESIGN CONSULTANT. PRODUCT MANUFACTURER, TECHNICAL DATA IF DIFFERENT FROM SOURCE; CONTENT OF PRODUCT; AMOUNT OF EACH INGREDIENT IN THE PRODUCT, AND MANUFACTURER'S DIRECTIONS AS TO USE AND APPLICATION OF THE PRODUCT, IF APPLICABLE, SHALL BE PROVIDED. PAINT/FINISHING PRODUCT SAMPLE, ROCK SAMPLE, CAST STONE SAMPLES, ETC. SHALL BE TRACTED SAME AS MATERIAL SUBMITTALS. ANY COSTS ASSOCIATED WITH ANY SAMPLING AND TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THESE COSTS SHALL BE CONSIDERED AS INCIDENTAL AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION.
4. TESTING:

   A. THE OWNER WILL PAY ALL THE CHARGES OF TESTING LABORATORIES FOR SERVICES IN CONNECTION WITH IN PLACE FIELD DENSITIES, CONCRETE CYLINDERS TESTING, HMAC DENSITY TESTS AND ANY IN-PLACE TEST REQUIRED FOR QUALITY ASSURANCE. RE-TESTING AFTER FAILURE OF IN PLACE TESTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL CHARGES OF TESTING LABORATORIES FOR SERVICES IN CONNECTION WITH INITIAL TESTS MADE ON ALL IMPORTED MATERIALS TO THE PROJECT SITES INCLUDING BUT NOT LIMITED TO EMBEDMENT MATERIALS, FILL MATERIAL, BACKFILL MATERIAL, SELECT MATERIAL, CRUSHED LIMESTONE BASE, SUBBASE, CONCRETE, STEEL, WOOD FORMS, LIQUID ASPHALT, AGGREGATE, WATER, CEMENT, CURING, COMPOUND, SEALANTS, ETC. THE TESTS FOR WHICH THE CONTRACTOR WILL TYPICALLY BE RESPONSIBLE ARE ATTERBERG LIMITS, SIEVE ANALYSIS, PLASTICITY INDICES, MIX DESIGN, CALIFORNIA BEARING RATIOS, PROCTORS (MOISTURE DENSITY CURVES) AND ALL TESTS REQUIRED BY THE SPECIFICATIONS THAT PROVE THE MATERIAL BROUGHT TO THE PROJECT SITES MEETS OR EXCEEDS THE SPECIFICATIONS AND CONTRACT DOCUMENTS.

CONSTRUCTION NOTES

1. REFERENCE THE STANDARD DETAILS ON SHEETS C8.00-C8.05 FOR ADDITIONAL NOTES.
2. PLANS WERE PREPARED BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY HALFF IN SEPTEMBER 2024.
3. REFER TO UTILITY AND GRADING PLANS FOR UTILITY LOCATION AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, CONTACT THE DESIGN CONSULTANT FOR DIRECTION ON HOW TO PROCEED.
4. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY HAVE NOT BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN CONSULTANT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH HIS SUBCONTRACTORS TO ACCOMPLISH HIS SCOPE OF WORK. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES WORKING ON THE SITE SIMULTANEOUSLY.
6. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ACCESS TO THE CONSTRUCTION SITE, SUBJECT TO APPROVAL FROM THE OWNER.
7. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENT.
8. EXISTING UTILITIES SHOWN ARE TAKEN FROM AVAILABLE RECORDS PROVIDED BY THE UTILITY OWNER AND FIELD LOCATIONS OF SURFACE APPURTENANCES. LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING FACILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES, WHETHER SHOWN OR NOT, IF DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL EXPENSE.
9. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:

   DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;

   REGULAR COLLECTION OF WASTE;

   CONVENIENTLY LOCATED TRASH RECEPTACLES; AND

   DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.

   THE ACCESS AND WORK AREAS SHALL BE SECURED DURING NON-WORKING HOURS.
10. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART VI IN PARTICULAR. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.
11. CONSTRUCTION TRAFFIC ROUTES SHALL BE COORDINATED WITH MONTGOMERY COUNTY AND THE WOODLANDS TOWNSHIP PRIOR TO CONSTRUCTION. ALL COMPACTED AREAS DUE TO CONSTRUCTION SHALL BE AERATED AND REVEGETATED TO ORIGINAL CONDITION AT NO EXPENSE TO THE CLIENT.
12. CONTRACTOR SHALL NOTIFY OWNER AND DESIGN CONSULTANT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION SCHEDULES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO FABRICATION AND/OR PURCHASE OF MATERIAL AND SHALL CONTACT THE DESIGN CONSULTANT, SHOULD EXISTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS FOR THIS PROJECT. CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF CONTRACTOR'S ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE DESIGN CONSULTANT AND THE OWNER FOR APPROVAL.
15. THE CONTRACTOR SHALL COORDINATE THE STORING OF MATERIALS, PARKING OF VEHICLES AND RESTRICTIONS OF WORK AND ACCESS WITH THE OWNER. UNDER NO CIRCUMSTANCES SHALL ANY CONTRACTOR STORE MATERIALS OR PARK VEHICLES UNDER THE CANOPY OF EXISTING TREES.
16. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE ORDINANCES AND LOCAL CODES. REQUIRED PERMITS SHALL BE OBTAINED BY THE CONTRACTOR.
17. UNIT PRICES SHALL NOT ONLY INCLUDE THE COST OF THE ITEM BUT ALSO ALL LABOR, EQUIPMENT, AND OTHER MATERIALS ASSOCIATED WITH AND NECESSARY TO DELIVER THE ITEM COMPLETE AS DOCUMENTED IN THE DRAWINGS.
18. ALL CONSTRUCTION COVERED BY THESE CONTRACT DOCUMENTS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALL APPLICABLE CITY AND OSHA CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE UNIFORM BUILDING CODE, ENACTED BY THE CONFERENCE OF BUILDING OFFICIALS, MOST RECENT EDITION, AND AMENDMENTS AS ADOPTED BY LOCAL GOVERNMENT.
19. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS UNLESS OTHERWISE NOTED.
20. CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVAL OF TRASH AND REPAIR OF HAZARDOUS CONDITIONS (IE. TOOLS, OPEN EXCAVATIONS, ETC.) ON A DAILY BASIS BY END OF THE WORK DAY.
21. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO THE FINAL APPROVAL, THE CONTRACTOR SHALL THOROUGHLY CLEAN UP THE PROJECT SITE OF ALL TRASH, SCRAPS, BRICK, ROCKS, MORTAR, ETC. AND REPAIR ALL DAMAGE TO FINISH GRADES INCLUDING TAILINGS FROM EXCAVATIONS, WHEEL RUTS, OR ANY SETTLING OR EROSION OCCURRING PRIOR TO COMPLETION.

EROSION AND SEDIMENTATION CONTROL NOTES

1. EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE LOCAL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
2. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE WOODLANDS TOWNSHIP AND/OR MONTGOMERY COUNTY FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE COUNTY ENGINEER OR THE WOODLANDS TOWNSHIP, THEY ARE WARRANTED.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE CIVIL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE ENGINEER.
5. ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
6. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTIVE FENCING PRIOR TO ANY WORK (CLEARING, GRUBBING OR EXCAVATION)
7. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
8. THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP. THE DEPTH OF SPOIL WILL NOT EXCEED 10 FEET IN ANY AREA.
9. NO PERMANENT SPOILS DISPOSAL ON-SITE EXCEPT AS SHOWN ON THE PLANS.
10. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL.
11. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT.

PHASE I INSTALL EROSION CONTROLS. REINFORCED SILT FENCES STABILIZED CONSTRUCTION ENTRANCE/EXIT
PHASE II MAINTAIN EXIST. EROSION CONTROLS, INSTALL INLET PROTECTION, ADD ADDITIONAL EROSION CONTROLS AS NEEDED.
PHASE III MAINTAIN EXIST. EROSION CONTROLS, MODIFY INLET PROTECTION TO METHOD COMPATIBLE WITH PAVEMENT. ADD ADDITIONAL CONTROLS AS NEEDED FOR CONSTRUCTION ACTIVITIES.
PHASE III REPLACE SILT FENCE INLET PROTECTION WITH BLOCK AND GRAVEL PROTECTION, OR GRAVEL AND SCREEN INLET PROTECTION AROUND ALL COMPLETED STORM DRAIN INLETS ON SITE.
PHASE IV REVEGETATE ALL DISTURBED AREAS NOT COVERED IN THE LANDSCAPE PLAN. ESTABLISH MIN. COVER OF 70% OF THE NATIVE BACKGROUND COVER. REMOVE EROSION CONTROLS WHEN 70% MIN. COVER HAS BEEN ESTABLISHED.

PHASE I SITE CLEARING & GRADING

PHASE II SITE UTILITIES & STORM DRAIN CONSTRUCTION

PHASE III PAVING, BUILDING, AND LANDSCAPE & IRRIGATION

PHASE IV FINAL STABILIZATION

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

WOODLANDS WATER NOTES

1. CONTRACTOR TO CONTACT WOODLANDS WATER NO LESS THAN 48–HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AT 281–367–1271 EXT. 4
2. CONTRACTOR NOT TO BACKFILL WATER, SEWER OR STORM LINES UNTIL INSPECTIONS HAVE BEEN COMPLETED
3. BEFORE OCCUPANCY–BACKFLOW TEST REPORTS FOR EACH ASSEMBLY MUST BE SUBMITTED TO WWA VIA VEPO.
4. BEFORE OCCUPANCY–CALL WWA TO SCHEDULE A CUSTOMER SERVICE INSPECTION, DAN KINNAIRD–CHIEF INSPECTOR VIA EMAIL AT DKINNAIRD@WOODLANDSWATER.ORG
5. IF APPLICABLE, FIRE FLOW TESTS ARE WITNESSED BY WWA. CUSTOMER SERVICE STAFF CAN SCHEDULE THIS TO OCCUR AFTER THE FEE (I.E. $75.00) FOR SAME IS PAID. NO LESS THAN 48 HOURS IN ADVANCE.
6. CONTACT WWA FOR THE OPERATION OF VALVES. PHONE: 281–367–1271 EXT. 4.
7. PAY FEES TO WWA, INCLUDING ALL TAP AND INSPECTION FEES.
8. UPON REVIEW OF THE PLANS AND PAYMENT OF THE TAP AND INSPECTION FEES, THE REQUESTED CONFIRMATION OF CAPACITY CAN BE PROVIDED.
9. COMMITMENT LETTERS EXPIRE AFTER ONE (1) YEAR.

CONCRETE CONSTRUCTION NOTES

1. REFERENCE THE CITY OF HOUSTON STANDARD DETAILS ON SHEETS C8.00–C8.05 FOR ADDITIONAL NOTES.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318–89 (REV. 92).
3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A–615. SHALL BE GRADE 60.
4. STEEL REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI SP–66.
5. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C–150, TYPE I OR TYPE III.
6. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C–33. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATES, UNLESS NOTED OTHERWISE.
7. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.
8. CONCRETE MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
9. CONCRETE MIXES SHALL BE DESIGNED TO PROVIDE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3500 PSI. THE MAXIMUM WATER–TO–CEMENTITIOUS MATERIALS RATIO SHALL BE 0.57.
10. THE MAXIMUM NOMINAL SIZE OF COARSE AGGREGATE SHALL BE 1–1/2 INCH.
11. PERCENTAGE OF AIR ENTRAINMENT SHALL BE 4 1/2% PLUS OR MINUS 1 1/2%.
12. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

    •CONCRETE PAVEMENT NOT LESS THAN 2" NOR MORE THAN 5", ASTM C143.
13. STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS." METAL OR PLASTIC CHAIRS OR SPACERS (NOT WOOD BLOCKS OR BRICK BATS) TO PROVIDE SUPPORT FOR REINFORCING BARS.
14. MINIMUM CONCRETE PROTECTION FOR ALL REINFORCEMENT SHALL BE 2–INCH CLEAR COVER BETWEEN ANY CONCRETE SURFACE AND NEAREST EDGE OF ANY REBAR.
15. REINFORCING BARS SHALL BE CONTACT LAP SPLICED UNLESS SHOWN OTHERWISE. LAP SPLICES SHALL CONFORM TO ACI REQUIREMENTS, BUT SHALL IN NO CASE BE LESS THAN 40 BAR DIAMETERS LONG.
16. ACI RECOMMENDATIONS INDICATE THAT REGULARLY SPACED EXPANSION JOINTS MAYBE DELETED FORM CONCRETE PAVEMENTS. THE INSTALLATION OF EXPANSION JOINTS IS OPTIONAL. IF PROVIDED, EXPANSION JOINTS SHALL BE SPACED A MAXIMUM OF 60 FEET AND BE PLACED WHERE PAVEMENT ABUTS ANY STRUCTURE.
17. MAXIMUM CONTROL JOINT SPACING SHALL BE AS FOLLOWS:

    •5–INCH PAVEMENT: 12.5 FEET

    •6–INCH PAVEMENT: 15 FEET

    •WEAKENED PLANE JOINTS SHALL BE SPACED AT A MAXIMUM OF 15 FEET. SAWCUT CONTROL JOINTS SHALL BE CUT WITHIN 4 TO 12 HOURS OF CONCRETE PAVEMENT.
18. ALL SAWCUT SURFACES OF THE EXISTING PAVEMENT SHALL BE CLEANED AND COATED WITH AN APPROVED BONDING COMPOUND IMMEDIATELY BEFORE THE NEW CONCRETE IS PLACED.
19. THE NEW PAVEMENT SHALL BE FINISHED TO MATCH THE SURROUNDING PAVEMENT.
20. THE PAVEMENT SURFACE SHALL BE MOIST–CURED WITH A MEMBRANE OR CURING COMPOUND FOR NOT LESS THAN 7 DAYS.
21. PROVIDE CONSTRUCTION JOINTS AT END OF EACH DAY'S WORK OR WHEN CONCRETE PLACEMENT IS STOPPED MORE THAN 1/2 HOUR.
22. EXPANSION JOINT FILLER SHALL BE PER CITY OF HOUSTON DETAILS AND SPECIFICATIONS.
23. SEALANT SHALL BE PER THE CITY OF HOUSTON DETAILS AND SPECIFICATIONS.
24. CONCRETE PLACED IN HOT WEATHER SHALL BE POURED IN THE EARLY MORNING SO THAT THE CONCRETE CAN ACHIEVE ITS INITIAL SET BY 9:00 AM.
25. CONCRETE FORM WORK AND REINFORCEMENT – THE CONTRACTOR SHALL NOTIFY THE DESIGN CONSULTANT AND/OR OWNER'S INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLANNED PLACEMENT OF CONCRETE.
26. ANY CONCRETE PLACED WITH AN IMPROPER FINISH SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE (NO COST TO THE OWNER).
27. ALIGNMENT AND TANGENCY OF PAVEMENTS – THE EDGES OF ALL FINISHED PAVING SHALL BE STRAIGHT OR SMOOTH CURVES (AS DELINEATED ON THE PLANS) WITH NO INTERRUPTIONS SUCH AS CHORDS, WAVES, JOGS, OR MISSED TANGENTS. PAVEMENTS WITH SUCH INTERRUPTIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE (NO COST TO THE OWNER).
28. NO CONCRETE COLD JOINTS ARE ACCEPTABLE UNLESS APPROVED BY THE DESIGN CONSULTANT / OWNER.
29. NO CONCRETE SHALL BE PLACED IN INCLEMENT WEATHER AS SPECIFIED IN THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
30. CONTRACTOR IS NOT TO PLACE ASPHALT PRODUCTS ON GROUND WITHIN 48 HOURS OF FORECASTED RAIN.

PAVEMENT NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL TEMPORARY AND PERMANENT SIGNAGE MUST COMPLY WITH THE LATEST REVISION OF THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
3. ALL DISTURBED AREAS WITHIN STREET RIGHT–OF–WAY AND EASEMENTS NOT COVERED BY PAVEMENT OR STRUCTURES SHALL BE HYDRO–MULCHED, UNLESS OTHERWISE NOTED, AND WATERED UNTIL VEGETATION ESTABLISHMENT.
4. ALL EXISTING UTILITIES ARE SHOWN SCHEMATICALLY AND ARE FOR THE CONTRACTORS GUIDANCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND MATERIAL OF ALL UTILITIES EFFECTED BY CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION.
5. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATIONS AND GENERAL DESIGN STANDARDS.
6. PAVEMENT SHALL BE AS RECOMMENDED BY TERRACON REPORT NO. 97245057, DATED SEPTEMBER 17, 2024:

    RIGID PAVEMENT

    a. AUTOMOTIVE PARKING: 5" THICK, 3500 PSI CONCRETE REINFORCED WITH #3 REINFORCING BARS @ 18" O.C.E.W.

    b. DRIVE AISLES: 6" THICK, 3500 PSI CONCRETE REINFORCED WITH #3 REINFORCING BARS @ 12" O.C.E.W.

    c. SIDEWALK: 4.5" THICK, 3500 PSI CONCRETE REINFORCED WITH #3 REINFORCING BARS @ 22" O.C. LONGITUDINAL AND 48" TRANSVERSE

    FLEXIBLE PAVEMENT

    a. DRIVE AISLES: 2.5" THICK, TYPE D, HOT MIX ASPHALTIC CONCRETE MEETING TxDOT 2014 STANDARD SPECIFICATIONS ITEM 340. 10" BASE MATERIAL OF CRUSHED LIMESTONE OR CRUSHED CONCRETE MEETING TxDOT 2014 STANDARD SPECIFICATIONS ITEM 247, TYPE A OR D, GRADE 1–2. BASE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED EFFORT (ASTM D1557) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM.

    SUBGRADE PREPARATION PER THE GEOTECHNICAL REPORT –

    STABILIZE TOP 6" WITH LIME AND FLYASH IN ACCORDANCE WITH 2014 TXDOT STANDARD SPEC ITEM 265. BASED ON THE SOIL CLASSIFICATION TEST RESULTS, 2 TO 3 PERCENT LIME AND 7 TO 8 PERCENT FLYASH BY DRY WEIGHT CAN BE USED FOR ESTIMATING AND PLANNING. THE PERCENTAGES ARE GIVEN AS APPLICATION BY DRY UNIT WEIGHT AND ARE TYPICALLY EQUIVALENT TO ABOUT 10–15 POUNDS OF LIME AND 35 TO 40 POUNDS OF FLY ASH PER SQUARE YARD PER 6" DEPTH. STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D 698) AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 2% OF OPTIMUM.
7. CONTRACTOR IS REQUIRED TO MAINTAIN TRAFFIC FLOW DURING CONSTRUCTION.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
9. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES IN, OR OMISSIONS FROM THE PLANS, HE SHALL NOTIFY THE ENGINEER AT ONCE TO OBTAIN CLARIFICATION PRIOR TO STARTING CONSTRUCTION.
10. ADJUST ALL MANHOLE RIMS, WATER VALVES, CLEANOUTS, ETC. TO NEW PAVEMENT GRADES.
11. CONTRACTOR'S WORK SHALL INCLUDE PAVEMENT REMOVAL AND PROPER LEGAL DISPOSAL OF DEBRIS REQUIRED FOR NEW WALKS, DRIVES, CURBS, GUTTERS AND OTHER PAVING AND CONCRETE FEATURES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, INSPECTION AND TESTING REQUIRED BY THE OWNER AND/OR MONTGOMERY COUNTY.
12. ALL FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST NINETY–FIVE (95%) PERCENT STANDARD PROCTOR AS PER ASTM D 698. MOISTURE CONTENT SHOULD BE WITHIN 2% OF OPTIMUM. LIFTS SHALL BE AS SPECIFIED PER THE SOILS LAB RECOMMENDATION AND AS APPROVED BY THE OWNER. ALL FILL SHALL BE TESTED AS INSTALLED AND CERTIFIED BY AN APPROVED SOILS LABORATORY.
13. THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY–TWO (72) HOURS AFTER DENSITY / MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY A TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY–TWO–(72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
14. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL "PERMANENT SURVEY REFERENCE MONUMENTS" AS DESCRIBED IN THE SUBDIVISION ORDINANCE INCLUDING CONCRETE MONUMENTS AND ALL BOUNDARY CORNERS.
15. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION AND PRIMARY CONTROL. ANY SUCH POINTS WHICH THE CONTRACTOR BELIEVES WILL BE DESTROYED SHALL HAVE OFFSET POINTS ESTABLISHED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MONUMENTATION DESTROYED BY THE CONTRACTOR SHALL BE REESTABLISHED AT HIS/HER EXPENSE.
16. CONTRACTOR SHALL LOCATE AND ADJUST EXISTING UTILITY MANHOLE LIDS, CLEANOUTS, WATER VALVES AND OTHER SURFACE APPURTENANCES AS REQUIRED FOR NEW CONSTRUCTION. CONTRACTOR SHALL COORDINATE UTILITY ADJUSTMENTS WITH OTHER DISCIPLINES AND THE APPROPRIATE UTILITY AGENCIES AND PROVIDE FOR ALL FEES FOR PERMITS, CONNECTIONS, INSPECTIONS, ETC.
17. CONTRACTOR SHALL PROTECT EXISTING DRAINAGE OUTFALL STRUCTURES.

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO: F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON — 143886
NAME — P.E. LICENSE NO.

10/23/2025
DATE

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HALFF ASSOCIATES, INC.

TBPELS #F-312 — TX
FIRM OR BUSINESS NO. — STATE

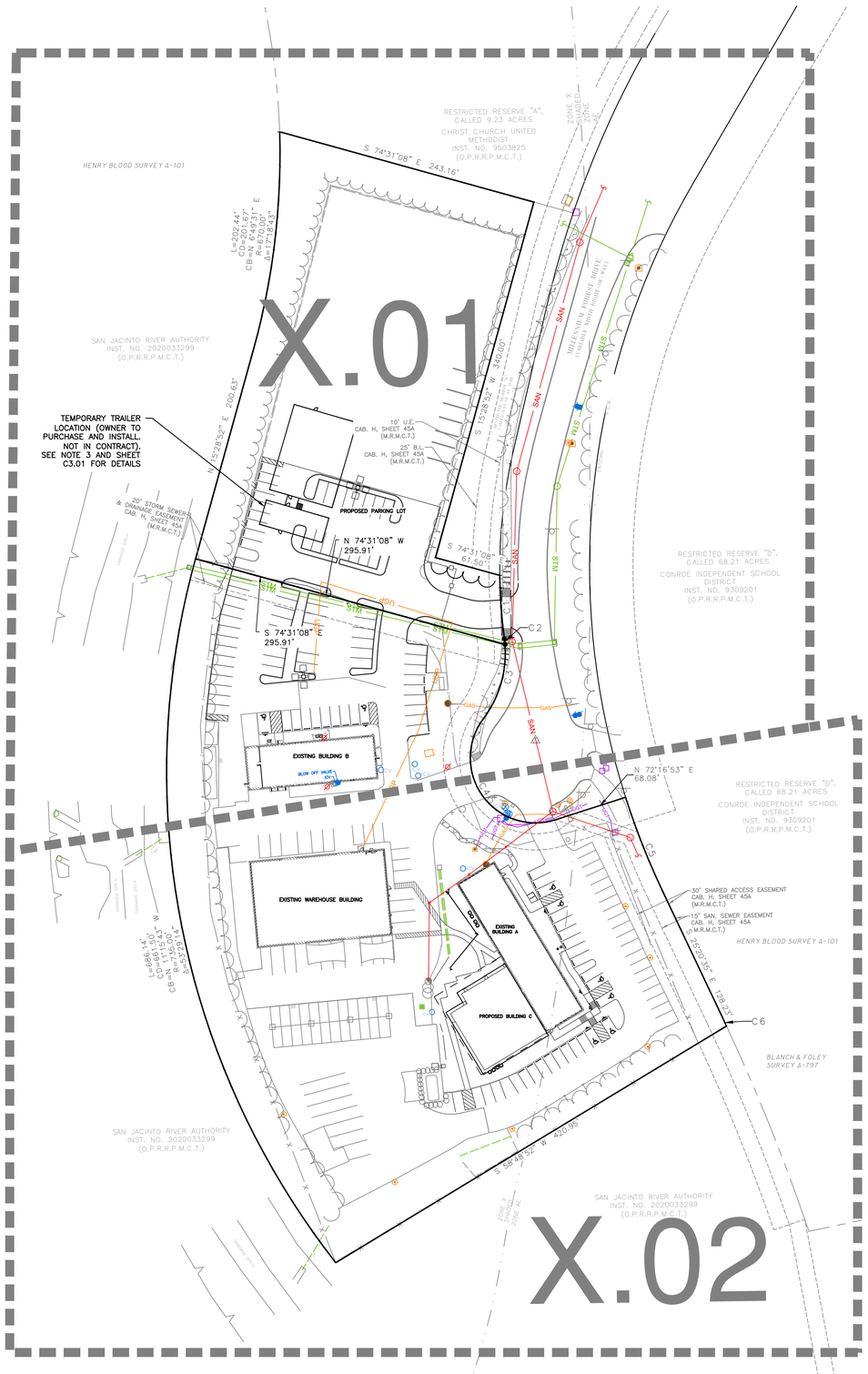
PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE:

GENERAL NOTES

G0.02

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-GNTS-52417-009.dwg DATE: October 23, 2025, TIME: 9:23 PM, USER: alh4770



Montgomery County

Engineering Department

These plans have been reviewed for general conformity with Montgomery County's design requirements, regulations and construction specifications. However, the responsibility for ensuring constructability and adherence to sound engineering practices rests with the engineer sealing the plans. All construction activities for the project must comply with Montgomery County regulations before the issuance of the initial certification. Any errors, omissions, or exclusions in the plans may result in significant increases in both construction costs and time delays.

County Engineer _____ Date _____

0 30 60 120

SCALE IN FEET

LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- ICV — EXISTING IRRIGATION CONTROL VALVE
- STM — EXISTING STORM LINE
- UGT — EXISTING UNDERGROUND TELECOM
- UGP — EXISTING UNDERGROUND POWER LINE
- GAS — EXISTING GAS LINE
- EXISTING LIGHT POLE
- EXISTING GROUND LIGHT
- EXISTING ELECTRIC BOX
- EXISTING GAS METER
- SAN — EXISTING SANITARY SEWER LINE
- EXISTING SANITARY MANHOLE
- W — EXISTING WATER LINE
- PROPERTY LINE
- PROPOSED 9' CHAINLINK FENCE
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM GRATE INLET
- EXISTING SIGN
- EXISTING FIBER HAND HOLE
- X — EXISTING 6' BARBWIRE FENCE
- // — EXISTING 9' CHAIN LINK FENCE
- EXISTING DITCH CENTER LINE
- EXISTING TOP OF BANK
- EXISTING TOE OF BANK
- EXISTING EASEMENT LINE
- EXISTING TREE LINE
- PROPOSED LIGHT POLE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. PHASE 1 OF THE PROJECT INCLUDES INSTALLATION OF TEMPORARY TRAILERS BY OWNER TO HOUSE EMPLOYEES DISPLACED DURING THE RENOVATIONS TO BUILDINGS A & B AND CONSTRUCTION OF NEW BUILDING C. AT THE COMPLETION OF THE BUILDING CONSTRUCTION THE TEMPORARY TRAILERS WILL BE REMOVED BY OWNER, AND PARKING LOT NORTH OF BUILDING B IS TO BE REMOVED BY THE GENERAL CONTRACTOR FOR THE CONSTRUCTION OF THE PROPOSED PARKING LOT EXPANSION TO THE NORTH.

FIELD MEASURED CURVE TABLE

CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
C3	41°41'50"	100.00	S16°11'41"W	71.18	72.78
C4	144°45'34"	60.00	S35°20'15"E	114.37	151.59
C5	7°37'28"	700.00	S21°31'51"E	93.08	93.15
C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 4804830510G WITH AN EFFECTIVE DATE OF AUGUST 18, 2014. THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

ELEVATIONS REFERENCED HEREON WERE REFERENCED FROM NATIONAL GEODETIC SERVICE (NGS) MONUMENT AJ6405 (ELEV. 212.40) UTILIZING GEOID 18, NAVD88.

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REVISION

NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON 143886
NAME P.E. LICENSE NO.

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CHECKED BY:	TE
SCALE:	AS NOTED

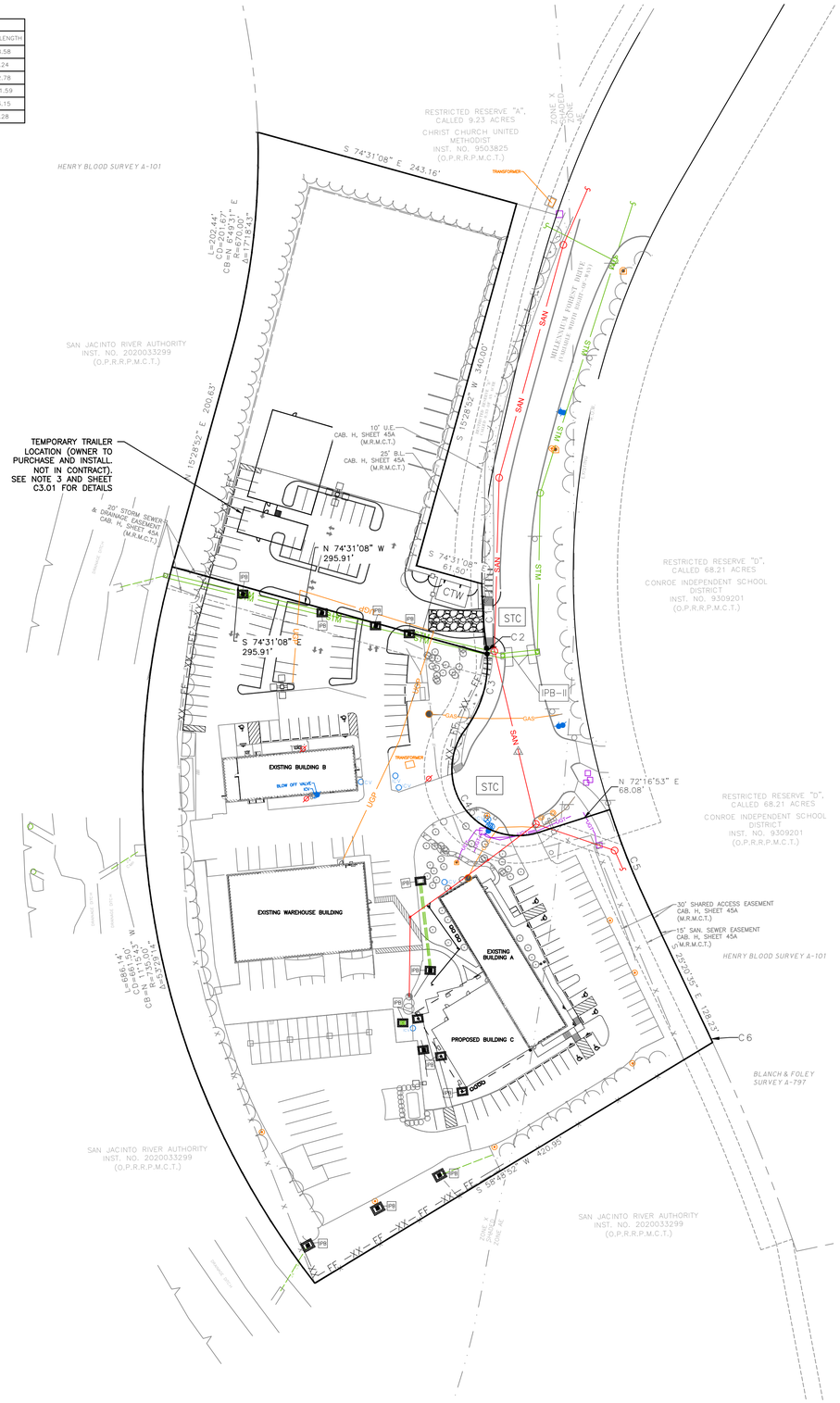
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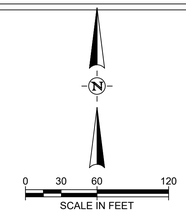
OVERALL SITE PLAN

C1.00

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-SITE-OVER-52417-009.dwg DATE: October 23, 2025, TIME: 9:23 PM, USER: ah4770

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
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C4	144°45'34"	60.00	S35°20'15"E	114.37	151.59
C5	7°37'28"	700.00	S21°31'51"E	93.08	93.15
C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28





LEGEND

- PROPERTY LINE
- XX-(FF)-XX- REINFORCED FILTER FABRIC FENCE
- IPB STAGE I GRATE INLET PROTECTION
- IPB-II STAGE II CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ACCESS
- STC STREET CLEANING
- CTW CONCRETE TRUCK WASH

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. PHASE 1 OF THE PROJECT INCLUDES INSTALLATION OF TEMPORARY TRAILERS BY OWNER TO HOUSE EMPLOYEES DISPLACED DURING THE RENOVATIONS TO BUILDINGS A & B AND CONSTRUCTION OF NEW BUILDING C. AT THE COMPLETION OF THE BUILDING CONSTRUCTION THE TEMPORARY TRAILERS WILL BE REMOVED BY OWNER, AND PARKING LOT NORTH OF BUILDING B IS TO BE REMOVED BY THE GENERAL CONTRACTOR FOR THE CONSTRUCTION OF THE PROPOSED PARKING LOT EXPANSION TO THE NORTH.

EROSION CONTROL FEATURES ARE SHOWN AS A SUGGESTION TO CONTRACTOR THE CONTRACTOR MUST PREPARE ALL RELEVANT DOCUMENTS INCLUDING HIS OPERATION SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT TXR150000, INCLUDINGALL DOCUMENTATION & CERTIFICATIONS AS REQUIRED BY PERMIT.

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 48048305106 WITH AN EFFECTIVE DATE OF AUGUST 18, 2014, THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

ELEVATIONS REFERENCED HEREON WERE REFERENCED FROM NATIONAL GEODETIC SERVICE (NGS) MONUMENT AJ6405 (ELEV. 212.40) UTILIZING GEOID 18, NAVD88.

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON — 143886
NAME — P.E. LICENSE NO.
10/23/2025
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

TBPELS #F-312 — TX
FIRM OR BUSINESS NO. — STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

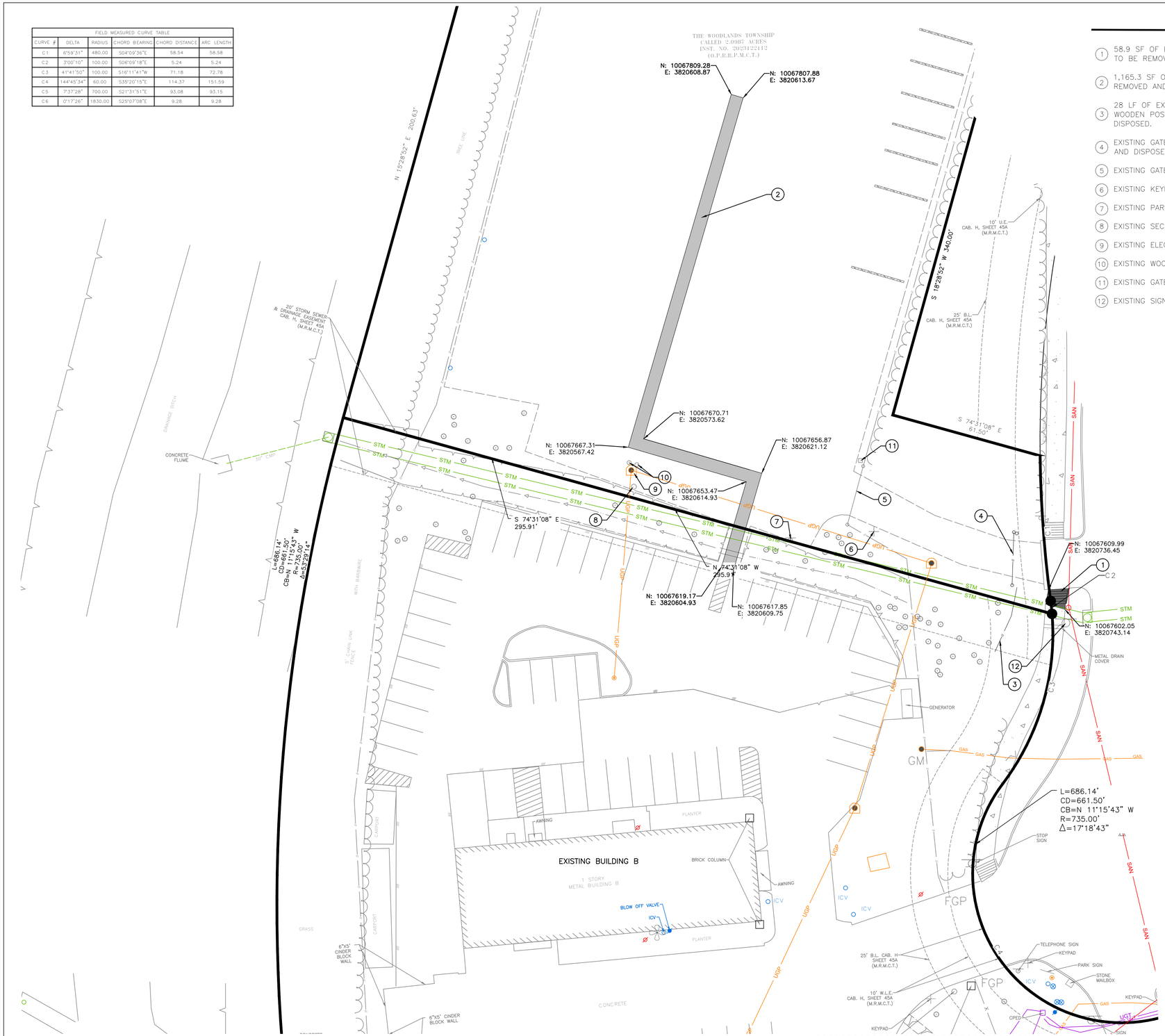
SHEET TITLE:

EROSION CONTROL PLAN

C2.00

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-ERCN-52417-009.dwg DATE: October 23, 2025, TIME: 9:24 PM, USER: ah4770

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
C3	41°41'50"	100.00	S16°11'41"W	71.18	72.78
C4	144°45'34"	60.00	S35°20'15"E	114.37	151.59
C5	7°37'28"	700.00	S21°31'51"E	93.08	93.15
C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28



KEYNOTES

1. 58.9 SF OF EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED.
2. 1,165.3 SF OF EXISTING GRAVEL TO BE REMOVED AND DISPOSED.
3. 28 LF OF EXISTING STEEL CABLE WITH WOODEN POSTS TO RE REMOVED AND DISPOSED.
4. EXISTING GATE AND POSTS TO BE REMOVED AND DISPOSED.
5. EXISTING GATE AND FENCE TO REMAIN.
6. EXISTING KEYPAD TO REMAIN.
7. EXISTING PARKING SIGN TO REMAIN.
8. EXISTING SECURITY CAMERA TO REMAIN.
9. EXISTING ELECTRICAL BOX TO REMAIN.
10. EXISTING WOODEN BOLLARDS TO REMAIN.
11. EXISTING GATE MOTOR TO REMAIN.
12. EXISTING SIGN TO REMAIN.

0 10 20 40
SCALE IN FEET

LEGEND

- EXISTING GRAVEL TO BE REMOVED AND DISPOSED. SEE KEYNOTE 2
- EXISTING CONCRETE PAVING AND CURB TO BE REMOVED AND DISPOSED/REPLACED
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- ICV — EXISTING IRRIGATION CONTROL VALVE
- STM — EXISTING STORM LINE
- UGT — EXISTING UNDERGROUND TELECOM
- UGP — EXISTING UNDERGROUND POWER LINE
- GAS — EXISTING GAS LINE
- EXISTING LIGHT POLE
- GROUND LIGHT
- ELECTRIC BOX
- GAS METER
- SAN — EXISTING SANITARY SEWER LINE
- EXISTING SANITARY MANHOLE
- PROPERTY LINE
- PROPOSED FENCE DEMO LINE
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM GRATE INLET
- EXISTING DITCH CENTER LINE
- EXISTING TOP OF BANK
- EXISTING TOE OF BANK
- EXISTING EASEMENT LINE
- EXISTING TREE LINE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. DEMOLITION ASSOCIATED WITH TEMPORARY TRAILERS SHOWN ON THIS SHEET TO BE COMPLETED BY OWNER. NOT IN CONTRACT.

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 48048305106 WITH AN EFFECTIVE DATE OF AUGUST 18, 2014. THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

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8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

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THE WOODLANDS, TX 77381

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LICENSED PROFESSIONAL ENGINEER
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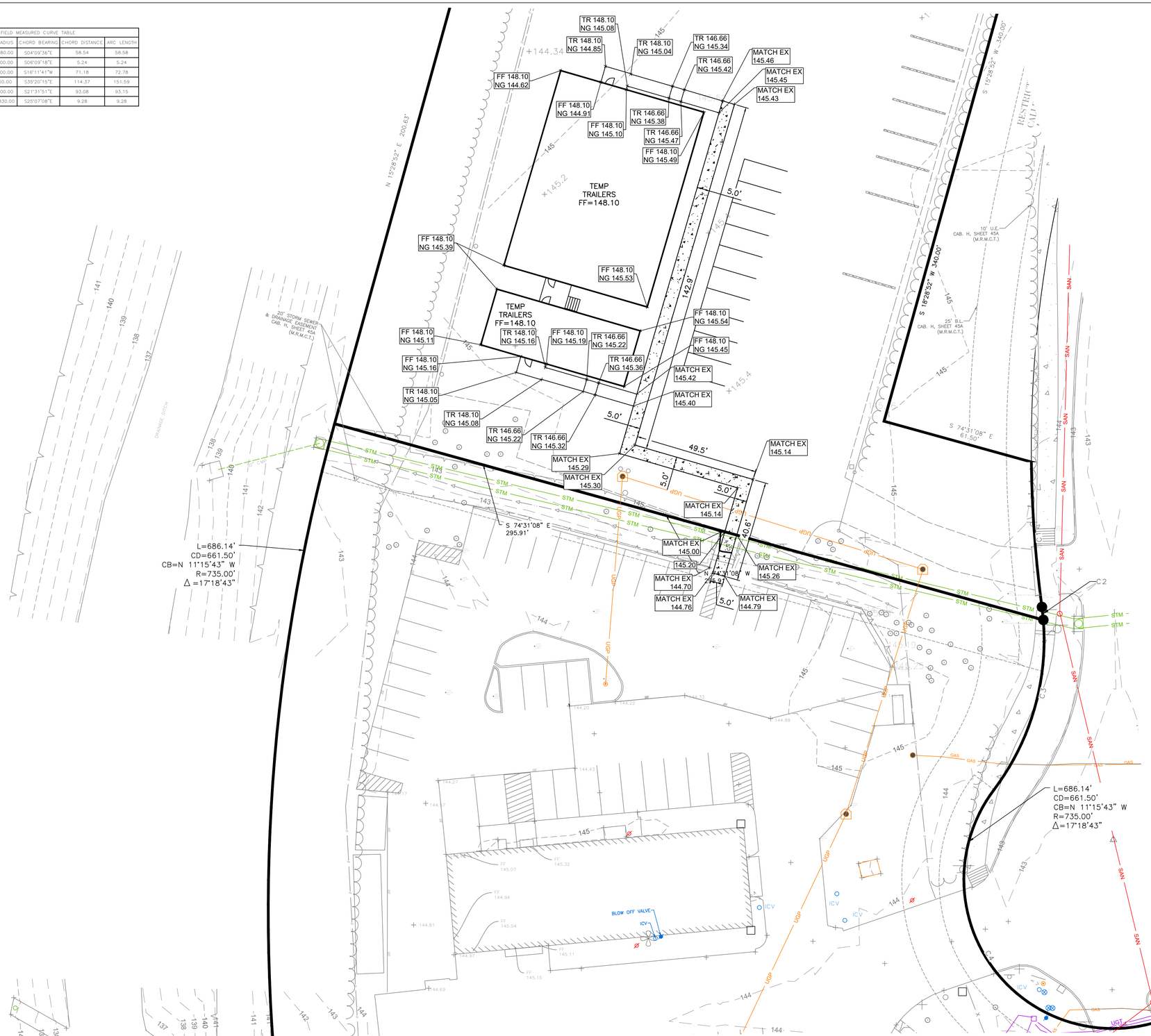
SHEET TITLE:

PHASE I DEMOLITION PLAN

C3.00

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-DEMO-PH1-52417-009.dwg DATE: October 23, 2025, TIME: 9:24 PM, USER: ah4770

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0 10 20 40
SCALE IN FEET

LEGEND

66.51	PROPOSED ELEVATION
TC66.51	PROPOSED TOP OF CURB ELEVATION
FG66.51	PROPOSED FINISHED GRADE
TR66.51	PROPOSED TOP OF RAMP GRADE
x103.9	EXISTING ELEVATION
79	EXISTING CONTOUR
79	PROPOSED CONTOUR
STM	EXISTING STORM LINE
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM GRATE INLET
	PROPOSED TOP OF BANK
	EXISTING DITCH CENTER LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF BANK
	EXISTING EASEMENT LINE
	PROPERTY LINE
W	PROPOSED WATER LINE
SAN	PROPOSED SANITARY SEWER LINE
	EXISTING FIRE HYDRANT
SAN	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY MANHOLE
	EXISTING WATER METER
	EXISTING WATER VALVE
ICV	EXISTING IRRIGATION CONTROL VALVE
	4" CONCRETE SIDEWALK

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. TEMPORARY TRAILERS AND ALL UTILITIES AND SITE WORK ASSOCIATED WITH THE TEMPORARY TRAILERS ON THIS SHEET TO BE INSTALLED BY THE OWNER. NOT IN CONTRACT.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24–HOURS PRIOR TO COMMENCING CONSTRUCTION.

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

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SCALE:	AS NOTED

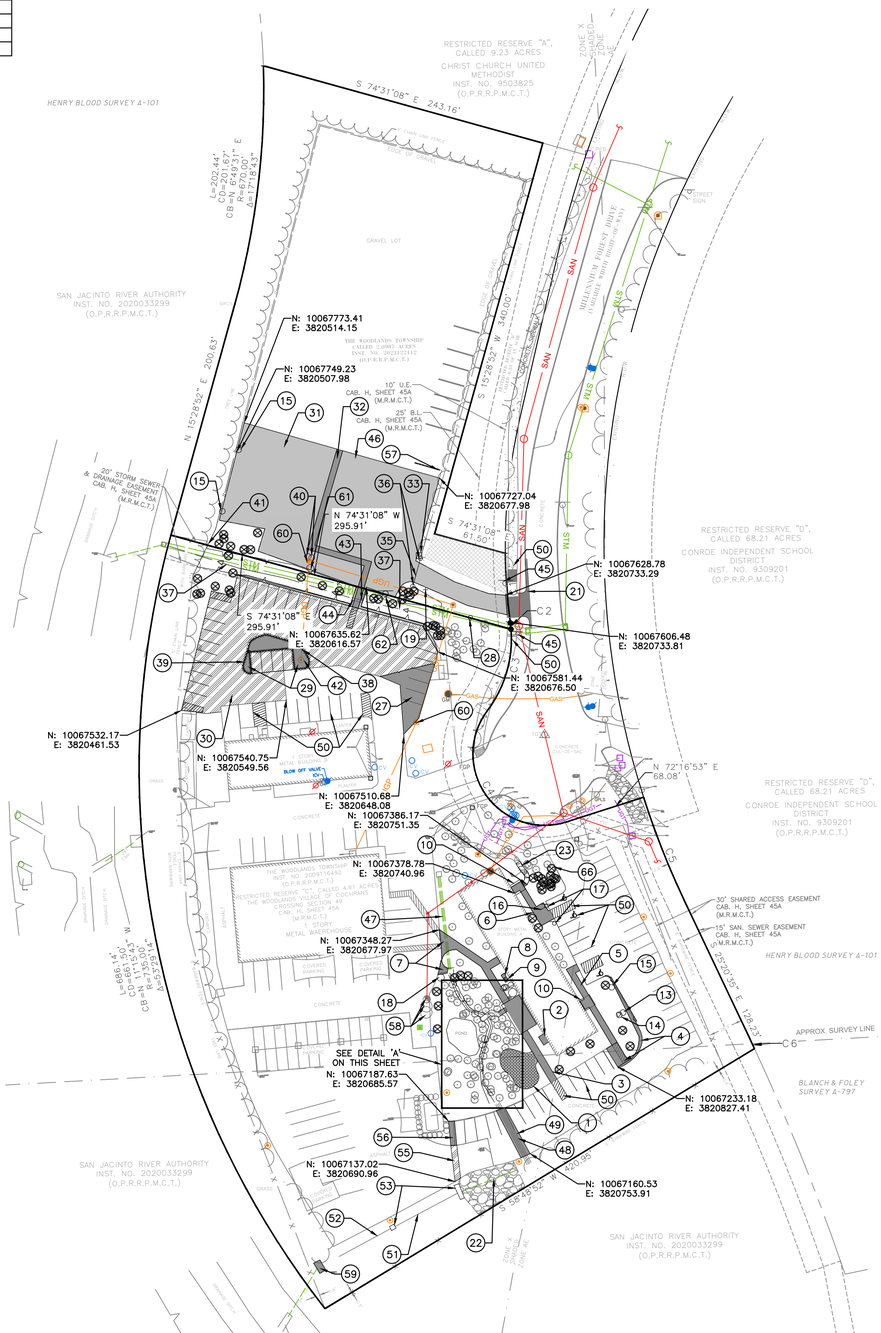
SHEET TITLE:

TEMPORARY TRAILER LAYOUT

C3.01

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-TEMP-TRLR-52417-009.dwg DATE: October 23, 2025, TIME: 9:24 PM, USER: ah4770

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C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28





DETAIL 'A'
SCALE: 1" = 20'

KEYNOTES

1. 775.4 SF OF EXISTING BRICK PAVER TO BE REMOVED AND DISPOSED.
2. 37.3 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED. REFERENCE MEP PLANS FOR DEMO OF EXISTING CONDENSING UNITS.
3. 752.4 SF OF EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED.
4. 337.9 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED.
5. 433.4 SF OF EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED.
6. 344.1 SF OF EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED.
7. 672.5 SF OF EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED.
8. 10.5 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED. REFERENCE MEP PLANS FOR DEMO OF EXISTING CONDENSING UNITS.
9. 9.1 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED. REFERENCE MEP PLANS FOR DEMO OF EXISTING CONDENSING UNITS.
10. EXISTING AWNING TO BE REMOVED AND DISPOSED.
11. EXISTING WOODEN WALKING BRIDGE TO BE REMOVED AND DISPOSED.
12. EXISTING WOODEND STAIRS TO BE REMOVED AND DISPOSED.
13. EXISTING STONE PLAQUE TO BE REMOVED AND REPLACED. SEE SHEET C7.02 FOR GENERAL LOCATION. CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT REPLACEMENT LOCATION.
14. EXISTING STEEL SCULPTURE TO BE REMOVED AND REPLACED. SEE SHEET C7.02 FOR GENERAL LOCATION. CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT REPLACEMENT LOCATION.
15. EXISTING IRRIGATION CONTROL VALVE TO BE REMOVED AND DISPOSED.
16. EXISTING BIKE RACK TO BE REMOVED AND REPLACED.
17. EXISTING SIGN TO BE REMOVED AND RELOCATED. SEE SHEET C7.02 FOR PROPOSED LOCATION.
18. EXISTING TRASH CAN TO BE REMOVED AND PROVIDED TO THE WOODLANDS TOWNSHIP.
19. EXISTING KEYPAD TO BE REMOVED AND RELOCATED. CONTRACTOR TO COORDINATE WITH THE WOODLANDS TOWNSHIP ON PROPOSED LOCATION.
20. EXISTING POND TO BE DEWATERED AND DE-MUCKED PRIOR TO BACKFILLING.
21. 609.8 SF EXISTING DECOMPOSED GRANITE TO BE REMOVED AND DISPOSED.
22. EXISTING 15" CPP PIPE TO REMAIN.
23. 87.4 SF OF EXISTING DECOMPOSED GRANITE SIDEWALK TO BE REMOVED AND REPLACED.
24. EXISTING WATER TANK AND ASSOCIATED COLLECTION SYSTEM TO BE REMOVED AND PROVIDED TO THE WOODLANDS TOWNSHIP.
25. EXISTING 9" GRATE INLET TO BE REMOVED AND DISPOSED.
26. 8.4 LF OF EXISTING 3" PVC PIPE TO BE REMOVED AND DISPOSED.
27. 1095.0 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED.
28. EXISTING GATE LATCH TO BE REMOVED AND DISPOSED.
29. 696.1 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED.
30. 12,454.6 SF OF EXISTING ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED.
31. 8382.6 SF OF EXISTING GRAVEL TO BE REMOVED AND DISPOSED.
32. 864 SF OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AND DISPOSED.
33. EXISTING GATE MOTOR TO BE REMOVED AND REPLACED. SEE SHEET C7.01 FOR NEW LOCATION OF GATE.

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1-800-ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

KEYNOTES

34. NOT USED
35. 72.8 LF OF EXISTING 10' CHAIN LINK FENCE AND GATE TO BE REMOVED AND REPLACED. REFERENCE SHEET C7.01 FOR NEW FENCE AND GATE ALIGNMENT.
36. EXISTING FENCE GATE POST TO BE REMOVED AND DISPOSED.
37. EXISTING SWALE TO BE DE-MUCKED PRIOR TO BACKFILLING.
38. 139.9 LF OF EXISTING CONCRETE CURB TO BE REMOVED AND DISPOSED.
39. 44.2 LF OF EXISTING CONCRETE CURB TO BE REMOVED AND DISPOSED.
40. EXISTING WOODEN BOLLARDS TO BE REMOVED AND DISPOSED.
41. 130.5 LF OF EXISTING 10' CHAIN LINK FENCE TO BE REMOVED AND REPLACED.
42. EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED. EXISTING LIGHT POLE FOUNDATION TO BE REMOVED AND DISPOSED. SEE SHEER C7.01 FOR NEW LIGHT POLE LOCATIONS.
43. 10.0 LF OF EXISTING 18" CPP PIPE TO BE REMOVED AND DISPOSED.
44. 9.9 LF F EXISTING 18" CPP PIPE TO BE REMOVED AND DISPOSED.
45. EXISTING PEDESTRIAN STOP SIGN TO BE REMOVED AND REPLACED. SEE SHEET C7.01 FOR NEW LOCATION.
46. 9153.9 SF OF EXISTING GRAVEL TO BE REMOVED AND DISPOSED.
47. EXISTING STORM TO REMAIN.
48. 4 - 57.1 LF OF EXISTING 12" CPP PIPE TO BE REMOVED AND DISPOSED (229 LF TOTAL).
49. 357.1 SF EXISTING CONCRETE TO BE REMOVED AND REPLACED.
50. PAVEMENT MARKINGS TO BE REMOVED (TYP).
51. 50.0 LF OF EXISTING 15" CPP PIPE TO BE REMOVED AND DISPOSED.
52. 48.9 LF OF EXISTING 15" CPP PIPE TO BE REMOVED AND DISPOSED.
53. EXISTING 4' WOODEN FENCE AND PLASTIC HEADWALL TO BE REMOVED AND DISPOSED.
54. NOT USED
55. 146.1 SF EXISTING ASPHALT TO BE REMOVED AND REPLACED AT FULL DEPTH.
56. 102.8 SF EXISTING CONCRETE TO BE REMOVED AND REPLACED AT FULL DEPTH.
57. EXISTING CONCRETE TRAFFIC BARRIER TO BE REMOVED AND RELOCATED. CONTRACTOR TO COORDINATE WITH THE WOODLANDS TOWNSHIP FOR RELOCATION.
58. EXISTING SAMPLE WELL / GREASE PIT TO REMAIN.
59. 57.6 SF OF EXISTING CONCRETE TO BE REMOVED AND DISPOSED.
60. EXISTING ELECTRICAL BOX TO BE REMOVED AND RELOCATED. SEE MEP PLANS FOR NEW LOCATION.
61. EXISTING SECURITY CAMERA TO BE REMOVED AND PROVIDED TO THE WOODLANDS TOWNSHIP.
62. EXISTING PARKING SIGN TO BE REMOVED AND PROVIDED TO THE WOODLANDS TOWNSHIP.
63. NOT USED
64. NOT USED
65. NOT USED
66. EXISTING KEYPAD TO BE REMOVED AND DISPOSED.

0 30 60 120
SCALE IN FEET

LEGEND

- EXISTING CONCRETE PAVING AND CURB TO BE REMOVED AND DISPOSED
- EXISTING ASPHALT PAVING AND BASE TO BE REMOVED AND DISPOSED AT FULL DEPTH
- EXISTING GRAVEL TO BE REMOVED AND DISPOSED
- CLEARING AND GRUBBING OF EXISTING FORESTED AREA
- EXISTING TREE TO BE REMOVED AND DISPOSED
- XXXXXXXXXX EXISTING CONCRETE CURB TO BE REMOVED AND DISPOSED
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- ICV EXISTING IRRIGATION CONTROL VALVE
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NOTES:

1. SEE SHEET G0.01-G0.02 FOR APPLICABLE NOTES.
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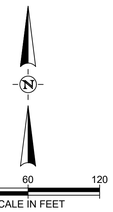
SHEET TITLE:
PHASE 2 DEMOLITION PLAN

C4.00

FILE NAME: A:\520000s\52417\009\LD\CADD\Sheets\C-PLAN-DEMO-52417-009.dwg DATE: October 23, 2025, TIME: 9:24 PM, USER: ah4770

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C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28





LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED TYPE 'A' GRATE INLET
- SWALE FLOWLINE
- PROPERTY LINE
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM GRATE INLET
- EXISTING DITCH CENTER LINE
- EXISTING TOP OF BANK
- EXISTING TOE OF BANK
- EXISTING EASEMENT LINE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 4804830510G WITH AN EFFECTIVE DATE OF AUGUST 18, 2014. THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

ELEVATIONS REFERENCED HEREON WERE REFERENCED FROM NATIONAL GEODETIC SERVICE (NGS) MONUMENT AJ6405 (ELEV. 212.40) UTILIZING GEOID 18, NAVD88.

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION		
NO	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON — 143886
NAME — P.E. LICENSE NO.

10/23/2025
DATE

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HALFF ASSOCIATES, INC.

TBPELS #F-312 — TX
FIRM OR BUSINESS NO. — STATE

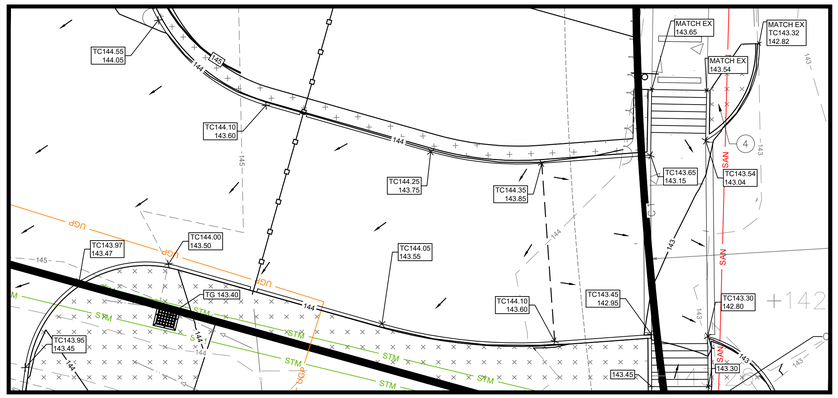
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ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

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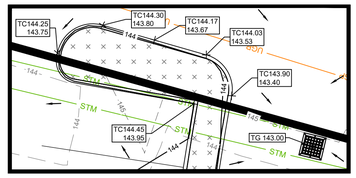
OVERALL GRADING PLAN

C5.00

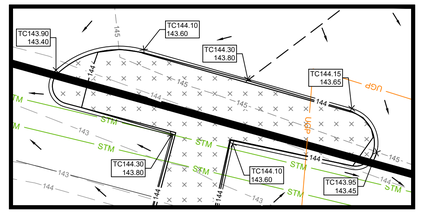
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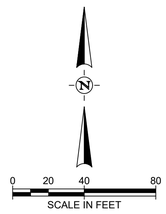
DETAIL 'A'
SCALE: 1"=10'



DETAIL 'B'
SCALE: 1"=10'



DETAIL 'C'
SCALE: 1"=10'



LEGEND

66.51	PROPOSED ELEVATION
TC66.51	PROPOSED TOP OF CURB ELEVATION
FG66.51	PROPOSED FINISHED GRADE
X103.9	EXISTING ELEVATION
	PROPOSED TYPE 'A' GRATE INLET
79	EXISTING CONTOUR
79	PROPOSED CONTOUR
	STORM WATER FLOW ARROW
	GRADE BREAK
STM	EXISTING STORM LINE
	EXISTING STORM CURB INLET
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM GRATE INLET
	EXISTING DITCH CENTER LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF BANK
	EXISTING EASEMENT LINE
	PROPERTY LINE

PLANT SCHEDULE (GROUND COVERS):

COMMON BERMUDAGRASS SOD
CYNODON DACTYLON (CYN TI3)

LANDSCAPE NOTES:

1. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE SURVEY, PLANS AND EXISTING FIELD CONDITIONS.
2. CONTRACTOR TO REGRADE, REPAIR AND REPLACE WITH SOD OF LIKE KIND FOR ALL EXISTING TURF AREAS DISTURBED BY CONSTRUCTION.
3. AN ESTIMATED 12,531 SF OF SOD HAS BEEN CALCULATED FOR THE PROJECT. CONTRACTOR TO CONFIRM AND VERIFY REQUIRED SOD BASED ON CONSTRUCTION MEANS AND METHODS.
4. UPON COMPLETION OF UTILITY CONSTRUCTION, CONTRACTOR SHALL SPREAD 2" OF PREPARED SOIL MIX THROUGH THE DISTRIBUTED AREA PER THE SPECIFIED FINISHED GRADE.
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6. CONTRACTOR TO PROVIDE TEMPORARY WATER UNTIL SOD IS ESTABLISHED.
7. CONTRACTOR TO REPAIR AND REPLACE EXISTING IRRIGATION AND REGRADE, REPAIR AND REPLACE SOD OF LIKE KIND ALL EXISTING IRRIGATION AND TURF AREAS DISTURBED BY CONSTRUCTION.

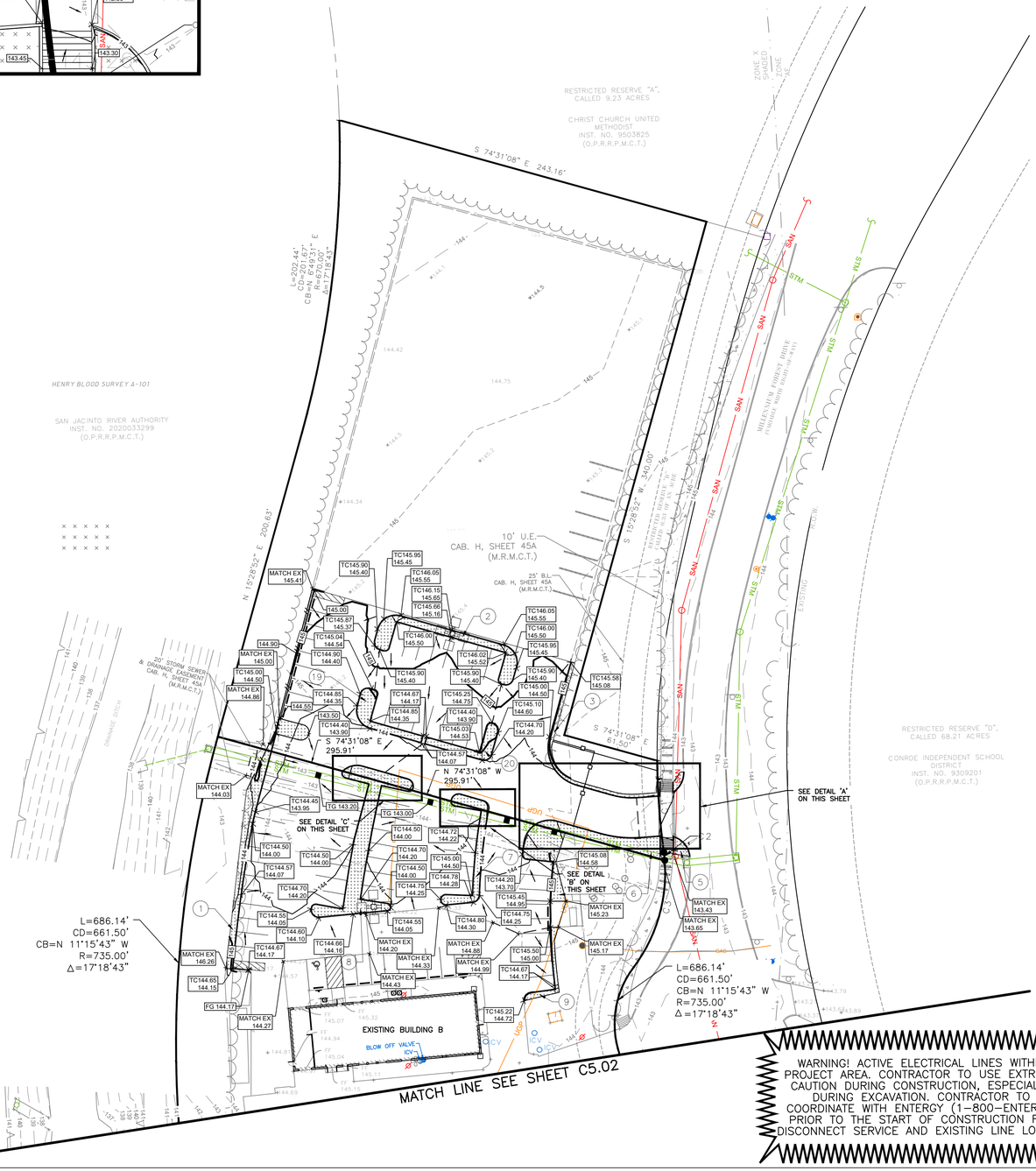
NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.

KEYNOTES

1	(1039 SF) CYN TI3	11	(113 SF) CYN TI3
2	(665 SF) CYN TI3	12	(300 SF) CYN TI3
3	(299 SF) CYN TI3	13	(165 SF) CYN TI3
4	(43 SF) CYN TI3	14	(78 SF) CYN TI3
5	(80 SF) CYN TI3	15	(2777 SF) CYN TI3
6	(1154 SF) CYN TI3	16	(2081 SF) CYN TI3
7	(485 SF) CYN TI3	17	(564 SF) CYN TI3
8	(1380 SF) CYN TI3	18	(141 SF) CYN TI3
9	(158 SF) CYN TI3	19	(350 SF) CYN TI3
10	(352 SF) CYN TI3	20	(307 SF) CYN TI3

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
C3	41°41'50"	100.00	S16°11'41"W	71.18	72.78
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SUITE 150
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TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

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TYLER EATON — 143886
NAME — P.E. LICENSE NO.
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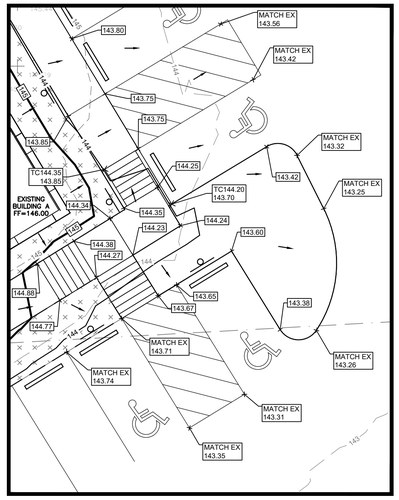
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ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

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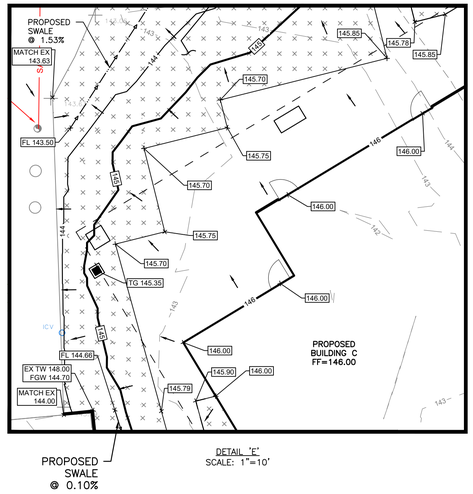
GRADING PLAN

C5.01

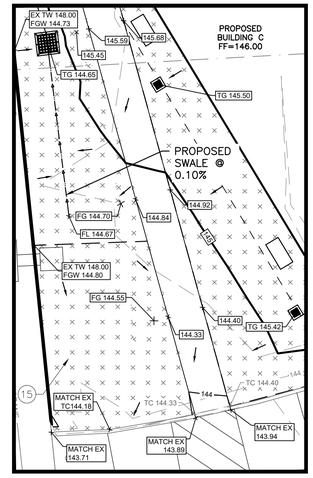
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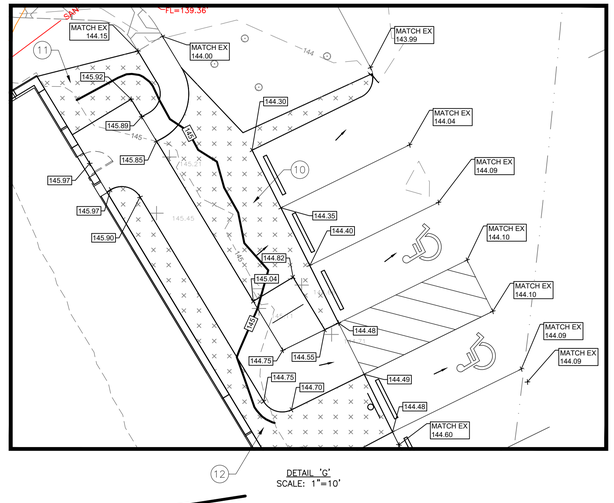
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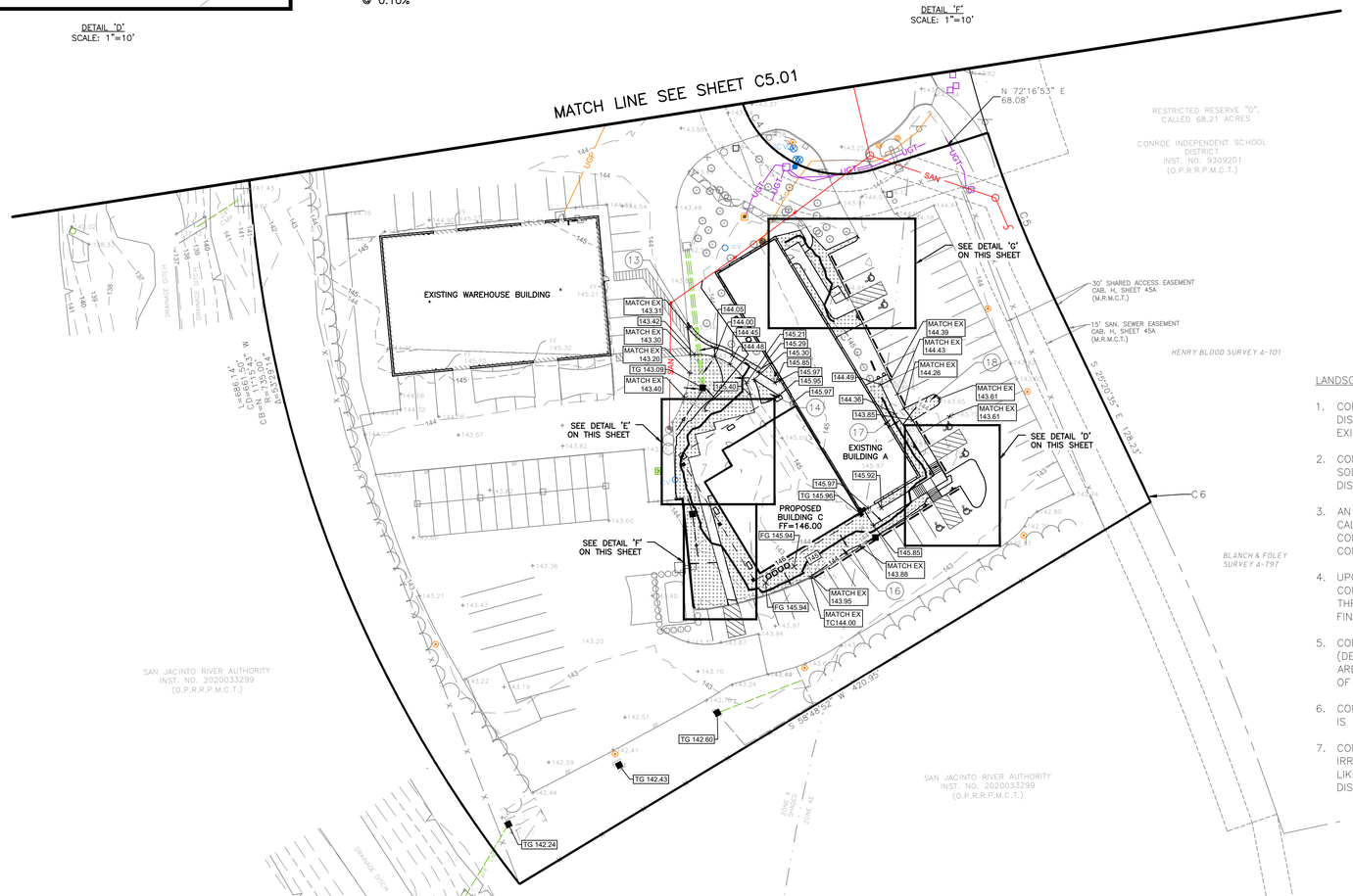
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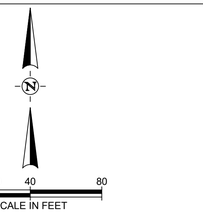
DETAIL 'F'
SCALE: 1"=10'



DETAIL 'G'
SCALE: 1"=10'



FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
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C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28



LEGEND

66.51	PROPOSED PAVEMENT ELEVATION
TC66.51	PROPOSED TOP OF CURB ELEVATION
FG66.51	PROPOSED FINISHED GRADE
FGW66.51	PROPOSED FINISHED GRADE AT BOTTOM OF WALL
X103.9	EXISTING ELEVATION
	PROPOSED TYPE A GRATE INLET
79	EXISTING CONTOUR
79	PROPOSED CONTOUR
	STORM WATER FLOW ARROW
	GRADE BREAK
	PROPOSED DITCH CENTER LINE
STM	EXISTING STORM LINE
	EXISTING STORM CURB INLET
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM GRATE INLET
	EXISTING DITCH CENTER LINE
	EXISTING TOP OF BANK
	EXISTING TOE OF BANK
	EXISTING EASEMENT LINE
	PROPERTY LINE

NOTES:

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2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.

PLANT SCHEDULE (GROUND COVERS):

COMMON BERMUDAGRASS SOD
CYNODON DACTYLON (CYN TI3)

LANDSCAPE NOTES:

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KEYNOTES

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STATE OF TEXAS
TYLER P. EATON
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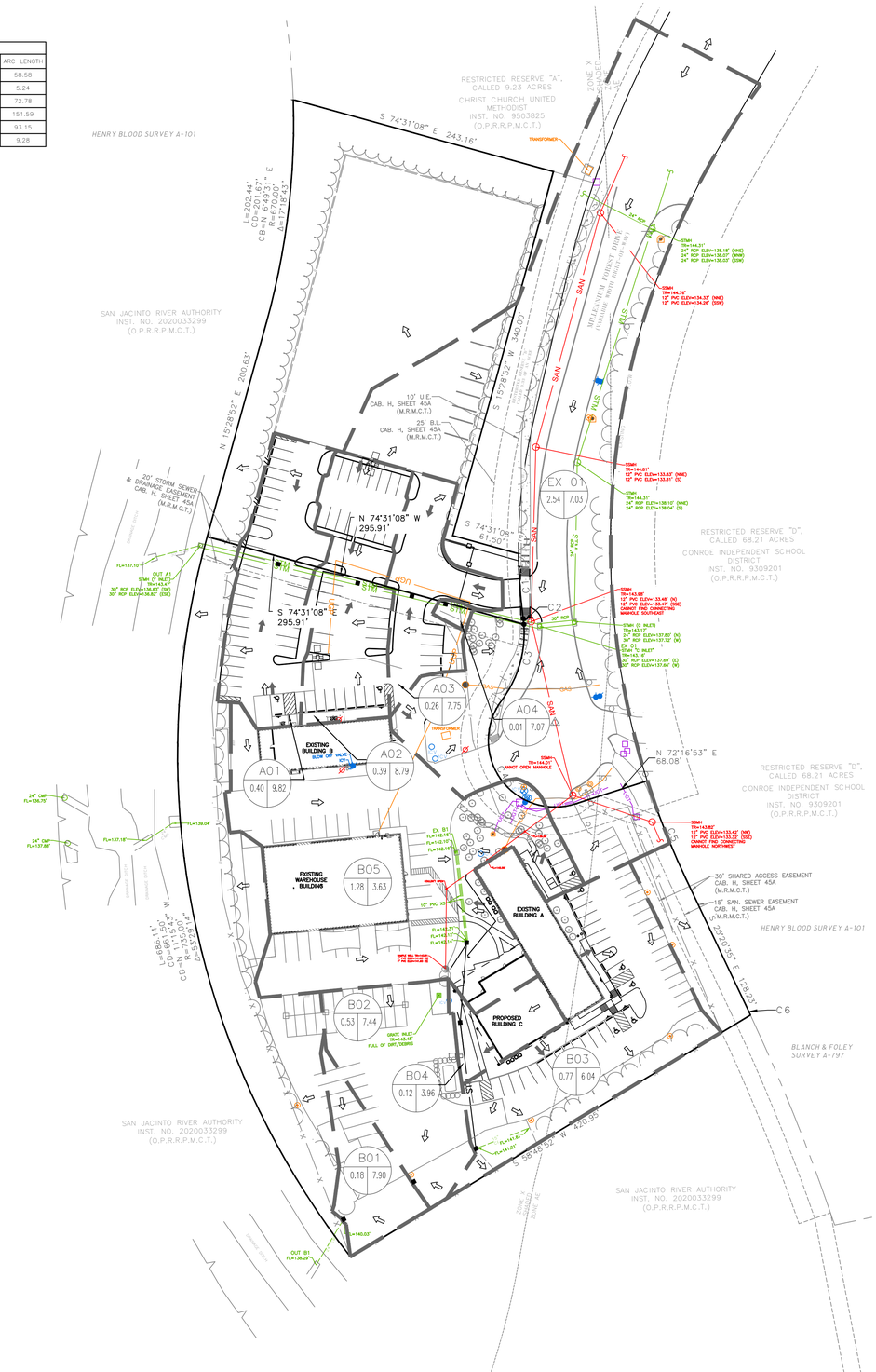
SHEET TITLE:

GRADING PLAN

C5.02

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-GRAD-52417-009.dwg DATE: October 23, 2025, TIME: 9:26 PM, USER: ah4770

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
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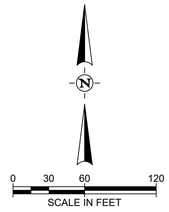


Montgomery County

Engineering Department

These plans have been reviewed for general conformity with Montgomery County's design requirements, regulations and construction specifications. However, the responsibility for ensuring constructability and adherence to sound engineering practices rests with the engineer sealing the plans. All construction activities for the project must comply with Montgomery County regulations before the issuance of the initial certification. Any errors, omissions, or exclusions in the plans may result in significant increases in both construction costs and time delays.

County Engineer _____ Date _____



LEGEND

- DRAINAGE DIVIDE
- DRAINAGE AREA (AC) / P1 (AC, CFS) — DRAINAGE AREA / 2-YR CUMULATIVE FLOW (CFS)
- STM — PROPOSED STORM
- PROPOSED TYPE 'A' GRATE INLET
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM GRATE INLET
- EXISTING STORM LINE
- PROPERTY LINE
- EXISTING EASEMENT
- EXISTING DITCH CENTER LINE
- EXISTING TOP OF BANK
- EXISTING TOE OF BANK
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION

NOTES:

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Inlet or MH from	Inlet or MH to	Area (acres)	b: 2 yr, 53.9 — Sum of A	b: C	d: Intensity I (in/hr)	e: Sum of Flows (cfs)	Time of Conc. (min)	Reach Length (ft)	Diameter or Rise (inches)	Slope (ft/ft)	Manning's n	Design Capacity (cfs)	Design Velocity (ft/s)	Fall (ft)	Manhole Drop (feet)	Top of Pipe Elevation Upstream (feet)	Top of Pipe Elevation Downstream (feet)	Flowline Elevation Upstream (feet)	Flowline Elevation Downstream (feet)	Actual Velocity (ft/s)	Friction loss (ft)	Hydraulic Gradient %	Change in head (ft)	Elevation of Hyd. Grad. Upstream (ft)	Elevation of Hyd. Grad. Downstream (ft)
2-Year Calculations																									
EX 01	A04	2.54	2.54	0.8	3.46	7.03	26.79	87.0	30	0.0027	0.013	21.55	4.39	0.24		140.16	134.85	137.66	137.42	1.43	0.02	0.0003	0.025	140.19	140.16
A04	A03	0.01	2.56	0.8	3.46	7.07	26.80	31.6	30	0.0027	0.013	21.28	4.34	0.08		139.92	139.84	137.42	137.34	1.44	0.01	0.0003	0.009	139.93	139.92
A03	A02	0.26	2.81	0.8	3.44	7.75	27.00	50.0	30	0.0027	0.013	21.28	4.34	0.13		139.84	139.71	137.34	137.21	1.58	0.01	0.0004	0.018	139.86	139.84
A02	A01	0.39	3.21	0.8	3.42	8.79	27.26	73.0	30	0.0027	0.013	21.28	4.34	0.20		139.71	139.51	137.21	137.01	1.79	0.02	0.0005	0.033	139.74	139.71
A01	OUT A1	0.40	3.60	0.8	3.41	9.82	27.53	72.0	30	0.0027	0.013	21.28	4.34	0.19		139.51	139.32	137.01	136.82	2.00	0.03	0.0006	0.041	139.36	139.32
B05	B04	1.28	1.28	0.8	3.55	3.63	25.44	72.3	18	0.0026	0.013	5.37	3.04	0.19		142.38	142.19	140.88	140.69	2.05	0.04	0.0012	0.086	142.28	142.19
B04	B03	0.12	1.40	0.8	3.54	3.96	25.61	114.4	18	0.0026	0.013	5.37	3.04	0.30		142.19	141.89	140.69	140.39	2.24	0.08	0.0014	0.162	142.05	141.89
B03	B02	0.77	2.17	0.8	3.48	6.04	26.46	63.5	24	0.0026	0.013	11.57	3.68	0.17		142.39	142.22	140.39	140.22	1.92	0.03	0.0007	0.045	142.26	142.22
B02	B01	0.53	2.70	0.8	3.45	7.44	26.91	71.6	24	0.0026	0.013	11.57	3.68	0.19		142.22	142.03	140.22	140.03	2.37	0.05	0.0011	0.077	142.11	142.03
B01	OUT B1	0.18	2.87	0.8	3.44	7.90	27.04	48.0	24	0.0026	0.013	11.57	3.68	0.12		142.03	140.29	140.03	138.29	2.52	0.04	0.0012	0.058	140.35	140.29

Inlet or MH from	Inlet or MH to	Area (acres)	b: 100 yr, 37.93 — Sum of A	b: C	d: Intensity I (in/hr)	e: Sum of Flows (cfs)	Time of Conc. (min)	Reach Length (ft)	Diameter or Rise (inches)	Slope (ft/ft)	Manning's n	Design Capacity (cfs)	Design Velocity (ft/s)	Fall (ft)	Manhole Drop (feet)	Top of Pipe Elevation Upstream (feet)	Top of Pipe Elevation Downstream (feet)	Flowline Elevation Upstream (feet)	Flowline Elevation Downstream (feet)	Actual Velocity (ft/s)	Friction loss (ft)	Hydraulic Gradient %	Change in head (ft)	Elevation of Hyd. Grad. Upstream (ft)	Elevation of Hyd. Grad. Downstream (ft)
100-Year Calculations																									
EX 01	A04	2.54	2.54	0.8	7.26	14.77	26.79	87.0	30	0.0027	0.013	21.55	4.39	0.24		140.16	134.85	137.66	137.42	3.01	0.08	0.0013	0.112	140.27	140.16
A04	A03	0.01	2.56	0.8	7.26	14.85	26.80	31.6	30	0.0027	0.013	21.28	4.34	0.08		139.92	139.84	137.42	137.34	3.03	0.03	0.0013	0.041	139.98	139.94
A03	A02	0.26	2.81	0.8	7.23	16.27	27.00	50.0	30	0.0027	0.013	21.28	4.34	0.13		139.84	139.71	137.34	137.21	3.31	0.06	0.0016	0.078	139.94	139.86
A02	A01	0.39	3.21	0.8	7.19	18.46	27.26	73.0	30	0.0027	0.013	21.28	4.34	0.20		139.71	139.51	137.21	137.01	3.76	0.11	0.0020	0.147	139.86	139.71
A01	OUT A1	0.40	3.60	0.8	7.16	20.63	27.53	72.0	30	0.0027	0.013	21.28	4.34	0.19		139.51	139.32	137.01	136.82	4.20	0.13	0.0025	0.181	139.50	139.32
B05	B04	1.28	1.28	0.8	7.45	7.60	25.44	72.3	18	0.0026	0.013	Too Small	#VALUE!	0.19		142.38	142.19	140.88	140.69	4.30	0.20	0.0052	0.377	142.57	142.19
B04	B03	0.12	1.40	0.8	7.42	8.30	25.61	114.4	18	0.0026	0.013	Too Small	#VALUE!	0.30		142.19	141.89	140.69	140.39	4.70	0.37	0.0062	0.711	142.60	141.89
B03	B02	0.77	2.17	0.8	7.30	12.67	26.46	63.5	24	0.0026	0.013	Too Small	#VALUE!	0.17		142.39	142.22	140.39	140.22	4.03	0.13	0.0031	0.196	142.42	142.22
B02	B01	0.53	2.70	0.8	7.24	15.61	26.91	71.6	24	0.0026	0.013	Too Small	#VALUE!	0.19		142.22	142.03	140.22	140.03	4.97	0.21	0.0047	0.339	142.37	142.03
B01	OUT B1	0.18	2.87	0.8	7.22	16.60	27.04	48.0	24	0.0026	0.013	Too Small	#VALUE!	0.12		142.03	140.29	140.03	138.29	5.28	0.16	0.0054	0.257	140.55	140.29

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 4804830510G WITH AN EFFECTIVE DATE OF AUGUST 18, 2014, THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

ELEVATIONS REFERENCED HEREON WERE REFERENCED FROM NATIONAL GEODETIC SERVICE (NGS) MONUMENT AJ6405 (ELEV. 212.40) UTILIZING GEOID 18, NAVD88.

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

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2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO.: F-312

REVISION NO	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON — 143886
NAME — P.E. LICENSE NO.
10/23/2025
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

TBPELS #F-312 — TX
FIRM OR BUSINESS NO. — STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

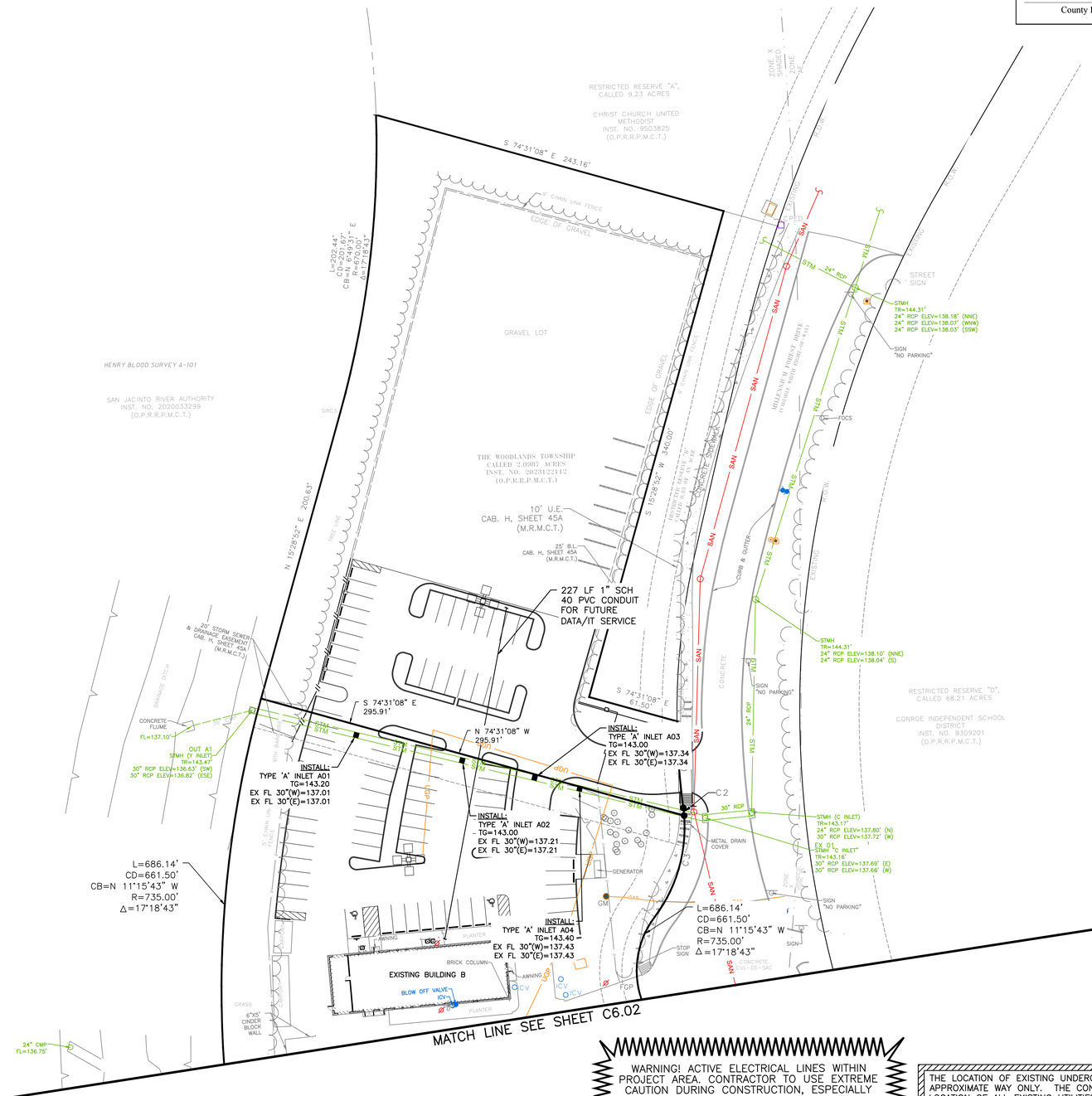
SHEET TITLE:

DRAINAGE AREA MAP

C6.00

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-DAMP-52417-009.dwg DATE: October 23, 2025, TIME: 9:26 PM, USER: ah4770

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
C3	41°41'50"	100.00	S16°11'41"W	71.18	72.78
C4	144°45'34"	60.00	S35°20'15"E	114.37	151.59
C5	7°37'28"	700.00	S21°31'51"E	93.08	93.15
C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28



Montgomery County

Engineering Department

These plans have been reviewed for general conformity with Montgomery County's design requirements, regulations and construction specifications. However, the responsibility for ensuring constructability and adherence to sound engineering practices rests with the engineer sealing the plans. All construction activities for the project must comply with Montgomery County regulations before the issuance of the initial certification. Any errors, omissions, or exclusions in the plans may result in significant increases in both construction costs and time delays.

County Engineer _____ Date _____

0 20 40 80
SCALE IN FEET

LEGEND

- PROPOSED TYPE 'A' GRATE INLET
- STM — PROPOSED STORM LINE
- PROPOSED DITCH CENTER LINE
- STM — EXISTING STORM LINE
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM GRATE INLET
- EXISTING DITCH CENTER LINE
- EXISTING TOP OF BANK
- EXISTING TOE OF BANK
- EXISTING EASEMENT LINE
- PROPERTY LINE
- SAN — PROPOSED SANITARY SEWER LINE
- W — PROPOSED WATER LINE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. SEE SHEET C6.00 FOR STORM CALCULATIONS

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BENCHMARK

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HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON	143886
NAME	P.E. LICENSE NO.
10/23/2025	
DATE	

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

TBPELS #F-312	TX
FIRM OR BUSINESS NO.	STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

SHEET TITLE:

UTILITIES AND DRAINAGE PLAN

C6.01

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-STRM-52417-009.dwg DATE: October 23, 2025, TIME: 9:26 PM, USER: ah4770

FIELD MEASURED CURVE TABLE					
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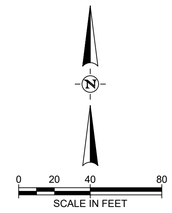
Montgomery County

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County Engineer _____ Date _____





LEGEND

- PROPOSED TYPE 'A' GRATE INLET
- PROPOSED STORM LINE
- PROPOSED DITCH CENTER LINE
- EXISTING STORM LINE
- EXISTING STORM CURB INLET
- EXISTING STORM SEWER MANHOLE
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- EXISTING TOP OF BANK
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- PROPERTY LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.
3. SEE SHEET C6.00 FOR STORM CALCULATIONS

UTILITY CROSSING LEGEND

CAUTION UTILITY CROSSING
1' MIN. CLEARANCE

1 PROP 18" STM FL = 140.74
PROP 6" STM FL = 143.97

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SUITE 150
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TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON 143886
NAME P.E. LICENSE NO.

10/23/2025
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

TBPELS #F-312 TX
FIRM OR BUSINESS NO. STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

SHEET TITLE:

UTILITIES AND DRAINAGE PLAN

C6.02

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-STRM-52417-009.dwg DATE: October 23, 2025, TIME: 9:26 PM, USER: ah4770



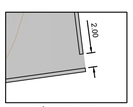
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C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28

NORTHING AND EASTING TABLE		
Point #	Northing	Easting
1	10067773.2740	3820514.6332
2	10067631.0277	3820476.8553
3	10067740.6397	3820552.5261
4	10067756.6721	3820569.6182
5	10067723.2197	3820643.5963
6	10067716.2559	3820631.6322
7	10067732.6133	3820636.2619
8	10067752.2214	3820566.9833
9	10067735.8640	3820562.3536
10	10067712.1198	3820635.2298
11	10067679.0601	3820664.2234
12	10067681.9083	3820631.7505
13	10067686.1387	3820624.2046
14	10067669.7803	3820619.5845
15	10067679.3133	3820585.9028
16	10067689.3909	3820550.2967
17	10067709.4520	3820552.8568
18	10067706.8079	3820543.5410
19	10067684.3385	3820549.7881
20	10067664.0564	3820621.4480
21	10067690.6837	3820492.6988
22	10067648.1141	3820681.4466
23	10067640.0198	3820719.9646
24	10067615.0853	3820721.7740
25	10067617.5476	3820697.6444
26	10067612.4469	3820647.9125
27	10067625.5761	3820669.2781
28	10067632.8984	3820625.8661
29	10067642.7481	3820607.8342
30	10067634.7275	3820603.8550
31	10067631.7759	3820620.5855
32	10067578.1148	3820614.9384
33	10067578.6929	3820598.4637
34	10067571.5487	3820598.6756
35	10067577.9786	3820619.9367
36	10067599.0442	3820666.4711
37	10067574.1389	3820664.8370
38	10067557.6667	3820670.0751
39	10067518.3179	3820668.3906
40	10067510.6805	3820648.0750
41	10067553.4856	3820644.8716
42	10067569.9271	3820593.6878
43	10067565.5770	3820547.3074
44	10067540.7462	3820549.5645
45	10067535.6861	3820494.5428
46	10067643.1873	3820742.8627
47	10067659.2155	3820751.2568
48	10067601.4378	3820755.2982
49	10067615.8018	3820743.1505
50	10067567.8841	3820561.0049
51	10067563.6557	3820517.5384
52	10067572.5257	3820515.6841
53	10067569.5901	3820532.3230
54	10067575.6908	3820544.0391
55	10067647.6263	3820557.4106
56	10067644.0177	3820574.0952
57	10067652.5286	3820574.0507
58	10067660.7567	3820544.9797
59	10067657.8872	3820532.7166
60	10067648.8135	3820548.8322
61	10067529.6395	3820482.4850
62	10067531.3693	3820462.5581
63	10067577.5581	3820467.8073

**99-199 NO USED. LIGHT POLES START AT 200

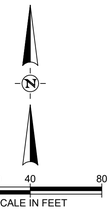


6'X2' CONCRETE FLUME
SCALE: 1"=10'



2' CURB CUT
SCALE: 1"=10'

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LEGEND

- 2.5" ASPHALT PAVEMENT
- 6" CONCRETE PAVEMENT
- 5" CONCRETE PAVEMENT
- 4.5" CONCRETE SIDEWALK
- PROPERTY LINE
- EXISTING EASEMENT LINE

NOTES:

1. SEE SHEET G0.01-G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00-C8.05 FOR ALL APPLICABLE STANDARD DETAILS.

KEYNOTES

(A) 4" WHITE SOLID TY II PAVEMENT MARKING

(B) BLUE ACCESSIBLE PARKING SYMBOL TY II, SEE SHEET C8.03 FOR DETAIL

(C) 4" WHITE SOLID TY II PAVEMENT MARKING, SEE SHEET C8.03 FOR DETAIL

(D) ACCESSIBLE PARKING SIGN, SEE SHEET C8.03 FOR DETAIL

(E) WHEELSTOP, SEE SHEET C8.03 FOR DETAIL (TYP)

(F) PROPOSED 2.0' CURB CUT WITH 6'X2' CONCRETE FLUME. SEE THIS SHEET FOR DETAIL

(G) PROPOSED 2.0' CURB CUT. SEE THIS SHEET FOR DETAIL

(H) SALVAGED GATE. CONTRACTOR TO COORDINATE WITH THE WOODLANDS TOWNSHIP FOR INSTALLATION OF GATE MOTOR, KEYPAD, GATE, GATE POSTS.

(I) PROPOSED LIGHT POLE. SEE SHEET S202 FOR LIGHT POLE FOUNDATION DETAIL AND ELECTRICAL PLANS POLE AND FIXTURE DETAILS.

(J) 9" PAINTED HIGHWAY REFLECTIVE WHITE PAVEMENT MARKING, SEE SHEET C8.05 FOR DETAIL.

(K) 12" PAINTED HIGHWAY REFLECTIVE WHITE PAVEMENT MARKING, SEE SHEET C8.05 FOR DETAIL.

(L) PROPOSED STOP SIGN, SEE SHEET C8.05 FOR DETAIL.

(M) PROPOSED STONE PLAQUE AND SCULPTURE.

(N) RELOCATED LIGHT POLE. SEE SHEET S202 FOR LIGHT POLE FOUNDATION DETAIL AND ELECTRICAL PLANS FOR ELECTRICAL ROUTING.

(O) 130.5 LF OF 10' BLACK VINYL COATED CHAINLINK FENCE. SEE SHEET C8.03 FOR DETAILS.

(P) 77.2 LF OF 10' BLACK VINYL COATED CHAINLINK FENCE. SEE SHEET C8.03 FOR DETAILS.

LIGHT POLE NORTHING AND EASTING TABLE		
Point #	Northing	Easting
200	10067744.8207	3820602.3028
201	10067570.6141	3820552.2929
202	10067211.6223	3820681.2194

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 4804830510G WITH AN EFFECTIVE DATE OF AUGUST 18, 2014. THE PROPERTY IS LOCATED PARTIALLY IN ZONE "X" SHADED AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND PARTIALLY IN ZONE "AE" AREAS WITH A 1% ANNUAL CHANCE OF FLOODING, BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

BENCHMARK

ELEVATIONS REFERENCED HEREON WERE REFERENCED FROM NATIONAL GEODETIC SERVICE (NGS) MONUMENT AJ6405 (ELEV. 212.40) UTILIZING GEOID 18, NAVD88.

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 200
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO. F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

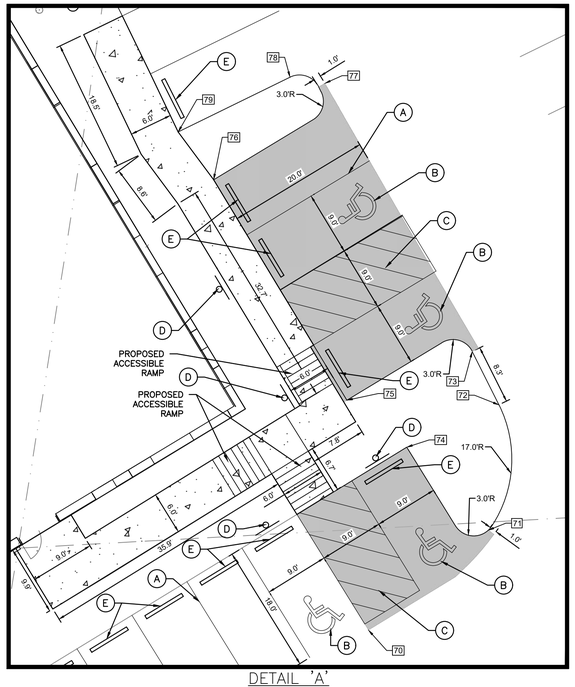
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FIRM OR BUSINESS NO. STATE

PROJECT NO.: 52417.009
ISSUED: 10/23/2025
DRAWN BY: PN
CHECKED BY: TE
SCALE: AS NOTED

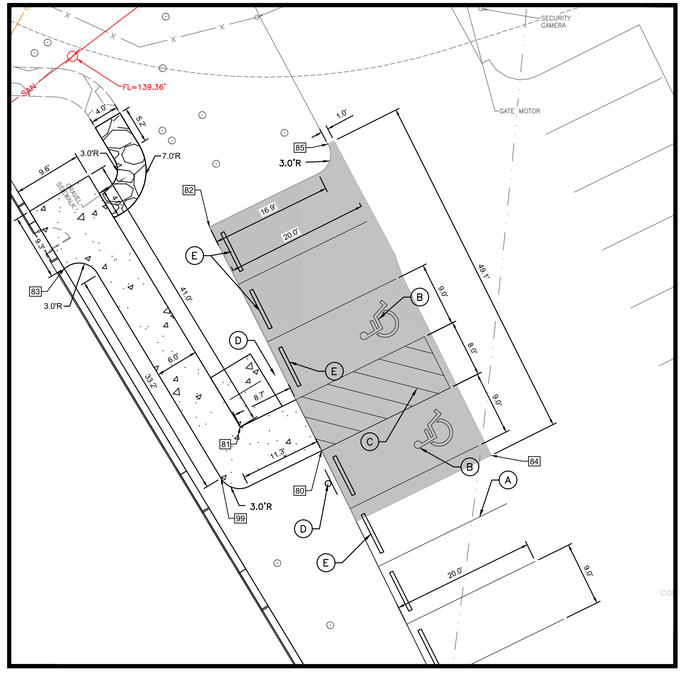
SHEET TITLE:
PAVING AND DIMENSIONAL PLAN

C7.01

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-PAVE-52417-009.dwg DATE: October 23, 2025, TIME: 9:27 PM, USER: ah4770



DETAIL 'A'
SCALE: 1"=10'



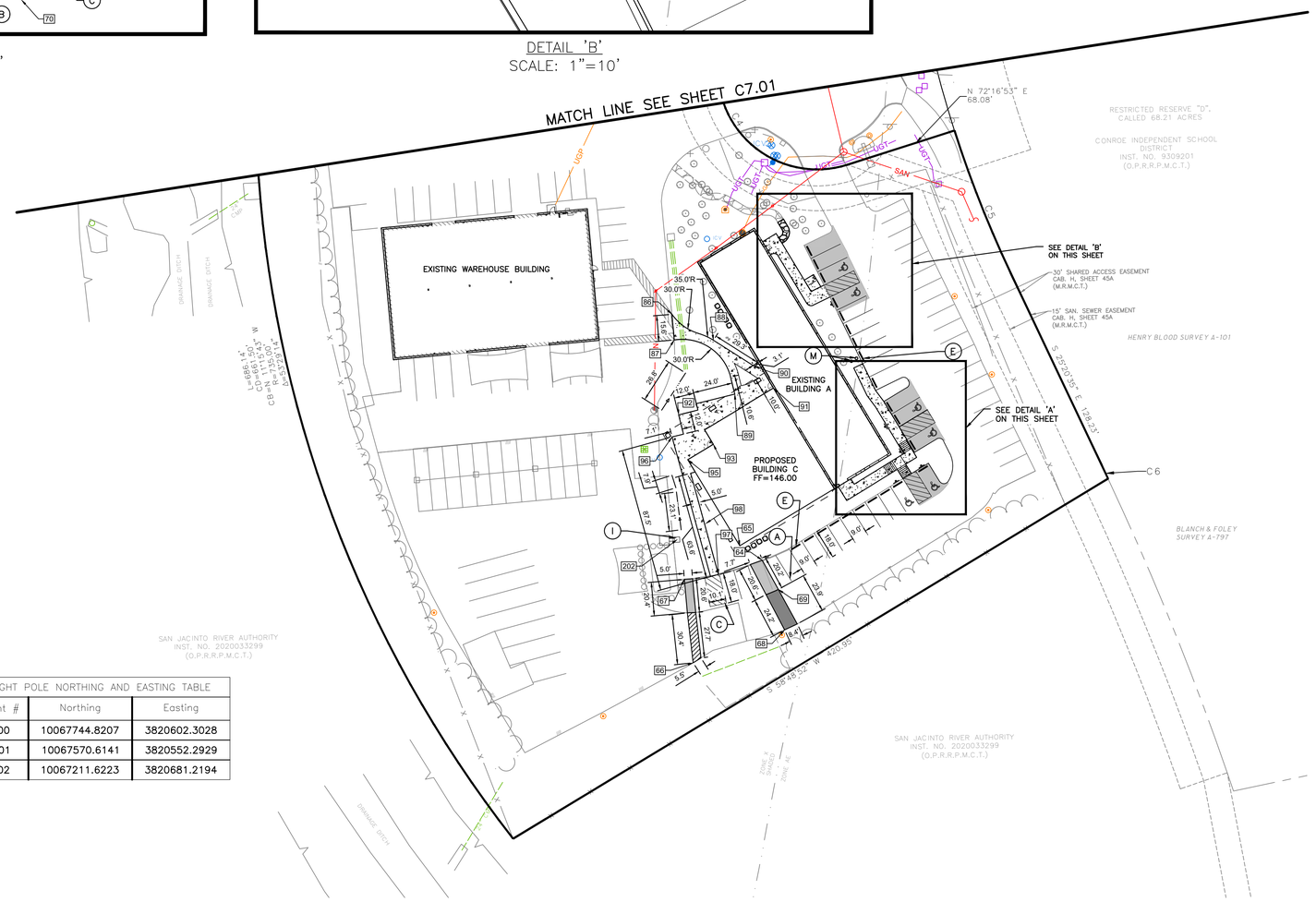
DETAIL 'B'
SCALE: 1"=10'

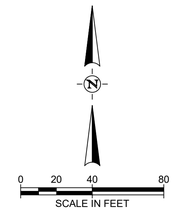
NORTHING AND EASTING TABLE		
Point #	Northing	Easting
64	10067199.1600	3820732.7496
65	10067207.8924	3820719.1352
66	10067137.0226	3820690.9569
67	10067187.6260	3820685.5671
68	10067156.9320	3820746.2749
69	10067181.4532	3820742.4517
70	10067232.3241	3820827.9292
71	10067246.2762	3820844.6532
72	10067263.8050	3820846.1515
73	10067271.2548	3820842.4281
74	10067257.8866	3820833.2787
75	10067264.4575	3820824.9111
76	10067295.2714	3820806.2964
77	10067308.7368	3820821.8356
78	10067309.5914	3820816.9688
79	10067301.9391	3820801.3370
80	10067358.5605	3820773.7143
81	10067361.9050	3820762.3511
82	10067389.8597	3820758.0472
84	10067357.9250	3820797.4232
85	10067401.4172	3820774.5902
87	10067348.0472	3820678.1139
88	10067332.4886	3820679.3968
89	10067332.3433	3820703.1970
90	10067299.7414	3820716.1070
91	10067316.6228	3820727.9310
92	10067303.4282	3820739.4979
93	10067287.1445	3820682.1469
94	10067269.3793	3820703.1290
95	10067260.0240	3820687.6424
96	10067273.7800	3820678.1530
97	10067190.4859	3820706.2236
98	10067221.3727	3820698.5595

**99-199 NO USED. LIGHT POLES START AT 200

LIGHT POLE NORTHING AND EASTING TABLE		
Point #	Northing	Easting
200	10067744.8207	3820602.3028
201	10067570.6141	3820552.2929
202	10067211.6223	3820681.2194

FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
C2	3°00'10"	100.00	S06°09'18"E	5.24	5.24
C3	41°41'50"	100.00	S16°11'41"W	71.18	72.78
C4	144°45'34"	60.00	S35°20'15"E	114.37	151.59
C5	7°37'28"	700.00	S21°31'51"E	93.08	93.15
C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28





LEGEND

- 2.5" ASPHALT PAVEMENT
- 6" CONCRETE PAVEMENT
- 5" CONCRETE PAVEMENT
- 4.5" CONCRETE SIDEWALK
- 4" DECOMPOSED GRANITE TRAIL
- PROPERTY LINE
- EXISTING EASEMENT LINE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.

KEYNOTES

(A) 4" WHITE SOLID TY II PAVEMENT MARKING

(B) BLUE ACCESSIBLE PARKING SYMBOL TY II, SEE SHEET C8.03 FOR DETAIL

(C) 4" WHITE SOLID TY II PAVEMENT MARKING, SEE SHEET C8.03 FOR DETAIL

(D) ACCESSIBLE PARKING SIGN, SEE SHEET C8.03 FOR DETAIL

(E) WHEELSTOP, SEE SHEET C8.03 FOR DETAIL (TYP)

(F) PROPOSED 2.0' CURB CUT WITH 6'X2' CONCRETE FLUME. SEE THIS SHEET FOR DETAIL

(G) PROPOSED 2.0' CURB CUT. SEE THIS SHEET FOR DETAIL

(H) SALVAGED GATE. CONTRACTOR TO COORDINATE WITH THE WOODLANDS TOWNSHIP FOR INSTALLATION OF GATE MOTOR, KEYPAD, CHAIN LINK FENCE, GATE POSTS.

(I) PROPOSED LIGHT POLE. SEE SHEET S202 FOR LIGHT POLE FOUNDATION DETAIL.

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(L) PROPOSED STOP SIGN, SEE SHEET C8.05 FOR DETAIL.

(M) PROPOSED STONE PLAQUE AND SCULPTURE.

FLOODPLAIN STATEMENT

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halff
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SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO.: F-312

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NO.	DATE	DESCRIPTION

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STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

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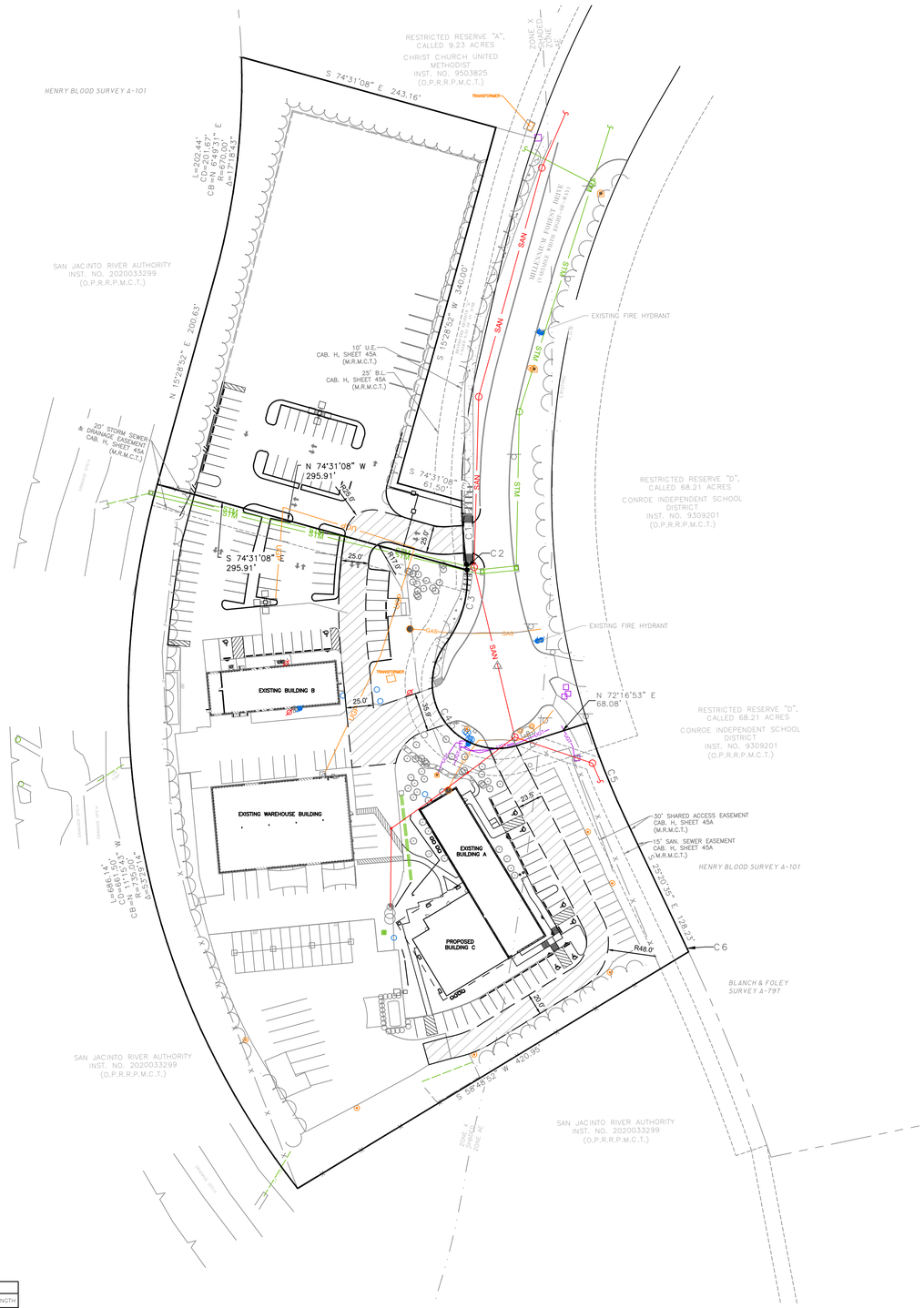
PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

SHEET TITLE:

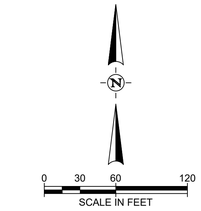
PAVING AND DIMENSIONAL PLAN

C7.02

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-PAVE-52417-009.dwg DATE: October 23, 2025, TIME: 9:27 PM, USER: ah4770



FIELD MEASURED CURVE TABLE					
CURVE #	DELTA	RADIUS	CHORD BEARING	CHORD DISTANCE	ARC LENGTH
C1	6°59'31"	480.00	S04°09'36"E	58.54	58.58
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C6	0°17'26"	1830.00	S25°07'08"E	9.28	9.28

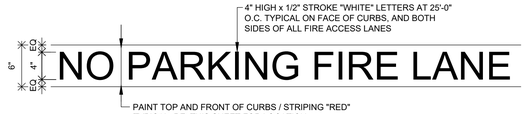


LEGEND

- FIRE LANE
- EXISITNG FIRE HYDRANT
- DESIGNATED FIRE ACCESS LANE MINIMUM 20' WIDE

NOTES:

1. SEE SHEET G0.01–G0.02 FOR APPLICABLE NOTES.
2. SEE SHEET C8.00–C8.05 FOR ALL APPLICABLE STANDARD DETAILS.



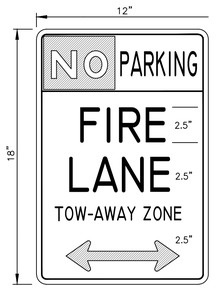
A. CURBS LOCATED BETWEEN APPROVED FIRE LANE-TOW-AWAY ZONE SIGNS SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. THESE CURBS SHALL ALSO BE CONSPICOUSLY AND LEGIBLY MARKED WITH THE WARNING "NO PARKING FIRE LANE" IN WHITE LETTERS AT LEAST THREE (4) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING TWENTY-FIVE (25) FEET.

B. ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES. RED COLORED CURBS; PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES.

C. PROVIDE A MINIMUM 25'-0" INSIDE RADIUS, AND 50'-0" OUTSIDE RADIUS FOR TURNS INSIDE THE PROPERTY LINE

FIRE LANE MARKING SPEC

1. AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
2. THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75', CONTINGENT UPON TRAFFIC ENGINEERING'S REVIEW AND APPROVAL.
3. THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW
4. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR THE SIGN POLE.
5. THE SIGN PLATE SHALL BE A MINIMUM OF 12" X 18" WITH A THICKNESS OF 0.80".



FIRE LANE SIGN

WARNING! ACTIVE ELECTRICAL LINES WITHIN PROJECT AREA. CONTRACTOR TO USE EXTREME CAUTION DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH ENTERGY (1–800–ENTERGY) PRIOR TO THE START OF CONSTRUCTION FOR DISCONNECT SERVICE AND EXISTING LINE LOCATE.

FLOODPLAIN STATEMENT

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HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO.: F-312

REVISION NO.	DATE	DESCRIPTION

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TYLER P. EATON 143886 LICENSED PROFESSIONAL ENGINEER

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NAME P.E. LICENSE NO.

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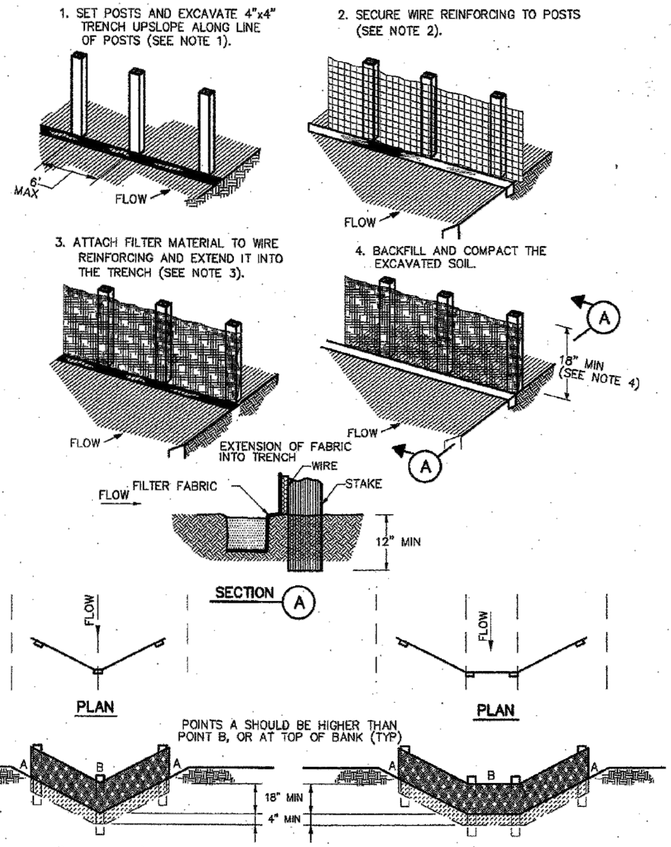
PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	AS NOTED

SHEET TITLE:

FIRE LANE PLAN

C7.03

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-FIRE-52417-009.dwg DATE: October 23, 2025, TIME: 9:27 PM, USER: ah4770



"V-DITCH" SECTION/ELEVATION

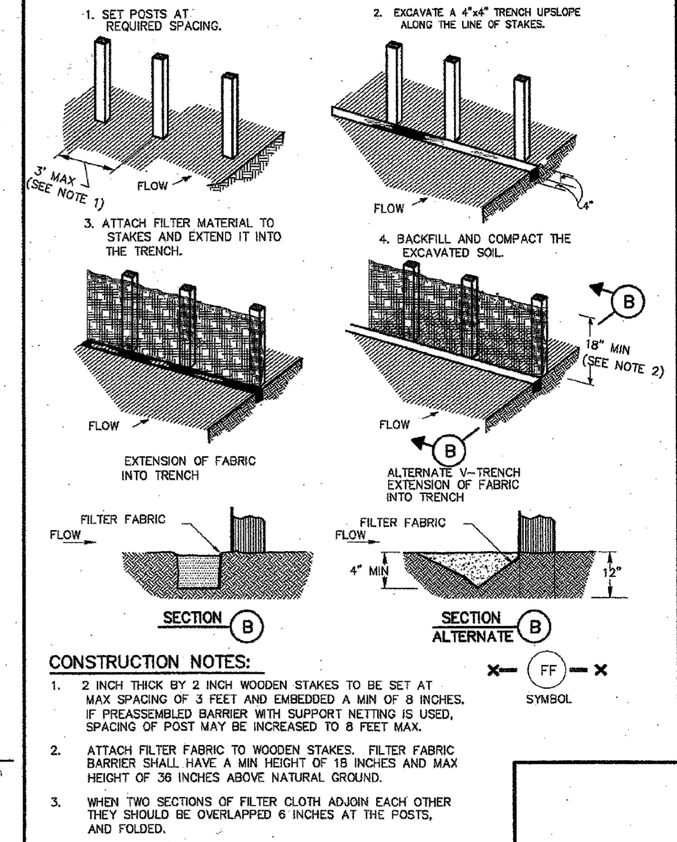
TRAPEZOIDAL SECTION/ELEVATION

CONSTRUCTION NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

SYMBOL

REINFORCED FILTER FABRIC BARRIER

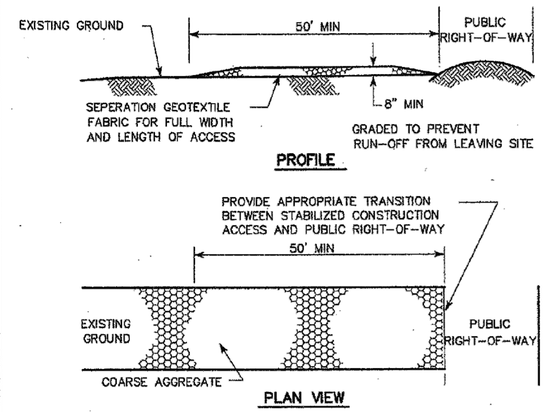


CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC BARRIER SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

SYMBOL

FILTER FABRIC BARRIER

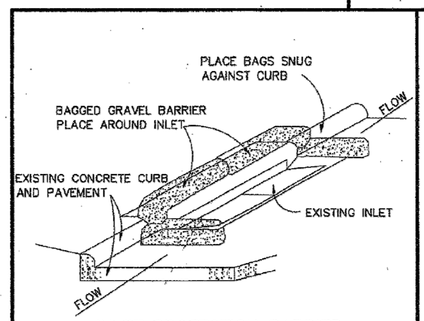


CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

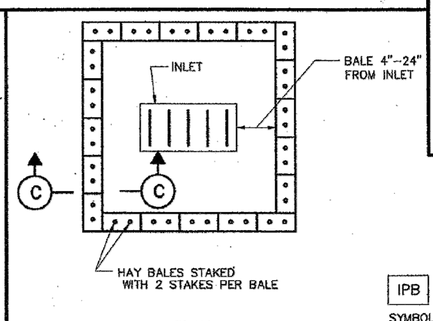
SC
SYMBOL

STABILIZED CONSTRUCTION ACCESS

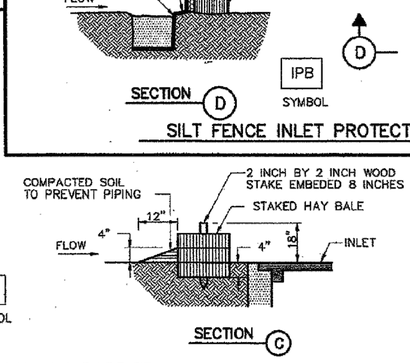


INLET PROTECTION BARRIER

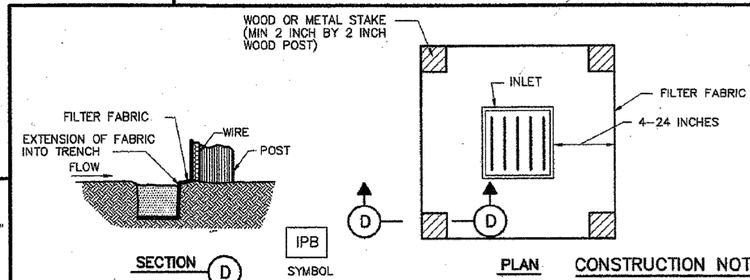
(FOR STAGE II INLETS)
BAGGED GRAVEL BARRIER



IPB
SYMBOL



HAY BALE INLET PROTECTION BARRIER



IPB
SYMBOL

SILT FENCE INLET PROTECTION BARRIER

CONSTRUCTION NOTE:

1. SEE CONSTRUCTION NOTES FOR RFB.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER

APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: JULY-01-2010

DWG NO: 01571-01

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THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:
HALFF ASSOCIATES, INC.
TBPELS #F-312 TX
FIRM OR BUSINESS NO. STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE:

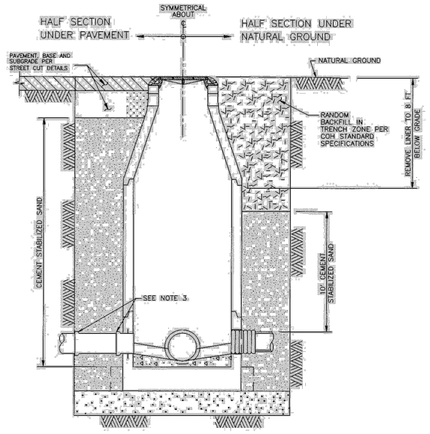
DETAILS

C8.00

FILE NAME: A:\52000s\52417009\LD\CADD\Sheets\C-PLAN-DTLS-52417-009.dwg DATE: October 23, 2025, TIME: 9:27 PM, USER: ah4770

NOTES:

1. GROUTING OF MANHOLE STRUCTURE ANNULAR SPACE WILL BE PERMITTED IN CASES WHERE INSUFFICIENT WORK SPACE EXISTS FOR PLACEMENT AND COMPACTATION OF CEMENT STABILIZED SAND, PER COH STANDARD SPECIFICATION FOR TUNNEL GROUT.
2. THIS DETAIL ALSO APPLIES TO BACKFILL OF SHAFTS WITHOUT STRUCTURES.
3. ARRANGE PIPE JOINTS AS SHOWN WHEN USING RIGID CONNECTION TO CAST IN PLACE MANHOLE BASE.

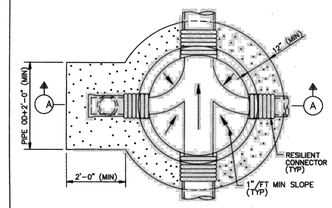


TYPICAL CROSS – SECTION

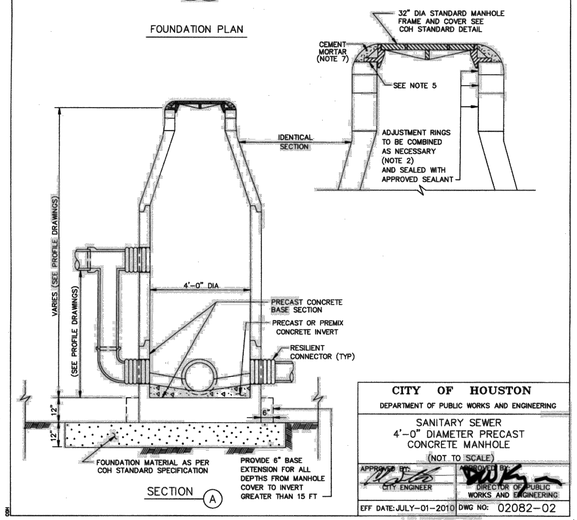
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION		
SANITARY SEWER BACKFILL OF SHAFTS (NOT TO SCALE)		
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING	
EFF. DATE: OCT-01-2002	DWG NO:	02317-08

NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME IN SEALANT PER COH STANDARD SPECIFICATION.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 EW.



FOUNDATION PLAN



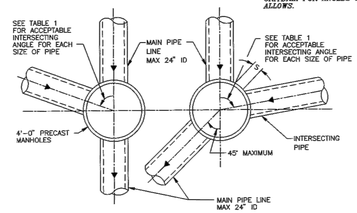
SECTION (A)

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING		
SANITARY SEWER 4'-0" DIAMETER PRECAST CONCRETE MANHOLE (NOT TO SCALE)		
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING	
EFF DATE: JULY-01-2010	DWG NO:	02082-02

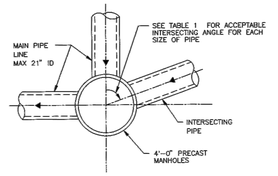
NOTES ON USE OF STANDARD DETAIL 02082-02

NOTES TO SPECIFIER:

1. *"–" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.*
2. *TABLE 1 IS BASED ON A MIN SEPARATION DISTANCE "S" OF 15.5" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.*
3. *PIPE WALL THICKNESS USED IN TABLE 1 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINNER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLE ALLOWS.*



MAX 24" ID MAIN PIPE ALLOWED FOR STRAIGHT THROUGH TO 45° DEFLECTION



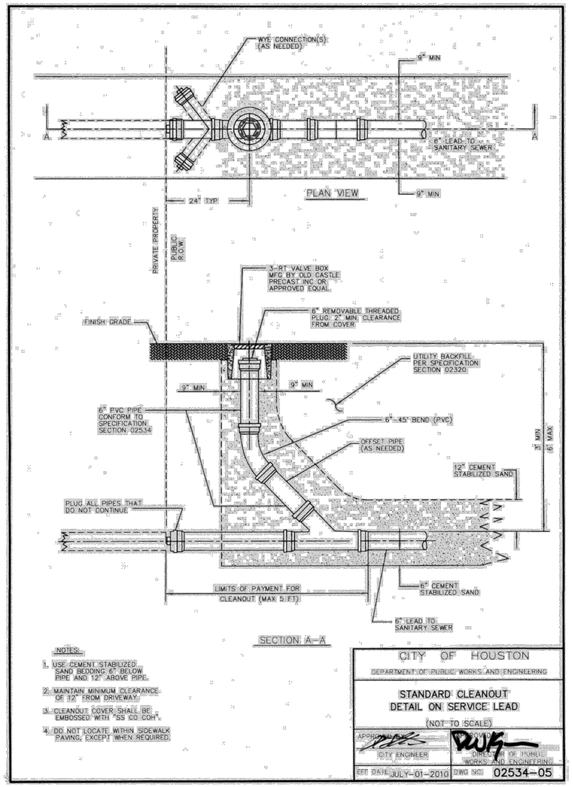
MAX 21" ID MAIN PIPE ALLOWED FOR 45° TO 90° DEFLECTION

TABLE 1

MIN ANGLE AND INTERSECTING PIPE SIZES FOR A 4'-0" DIA MANHOLE

INTERSECTING PIPE SIZE (INCHES)	MIN INTERSECTING ANGLE IN DEGREES FOR FOR VARIOUS MAIN PIPE SIZES IN INCHES							
	6"	8"	10"	12"	15"	18"	21"	24"
6	55	59	60	65	70	75	80	85
8		60	63	68	73	77	82	87
10			66	71	75	80	85	90
12				76	80	85	90	–
15					85	90	–	–
18	NOT APPLICABLE UNLESS HYDRAULICS DICTATE (INTERSECTING PIPE > MAIN PIPE)					–	–	–
21							–	–
24								–

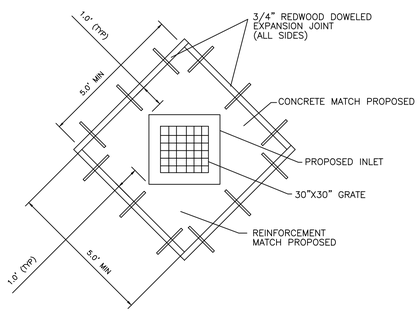
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION		
SANITARY SEWER 4'-0" DIAMETER PRECAST CONCRETE MANHOLE NOTES (NOT TO SCALE)		
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING	
EFF DATE: OCT-01-2002	DWG NO:	02082N-02



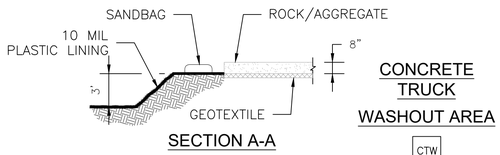
NOTES:

1. USE CEMENT STABILIZED SAND BEDDING 6" BELOW PIPE AND 12" ABOVE PIPE.
2. MAINTAIN MINIMUM CLEARANCE OF 12" FROM DRIVEWAY.
3. CLEANOUT COVER SHALL BE EMBOSSED WITH "SS CO COH".
4. DO NOT LOCATE WITHIN SIDEWALK PAVING, EXCEPT WHEN REQUIRED.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING		
STANDARD CLEANOUT DETAIL ON SERVICE LEAD (NOT TO SCALE)		
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING	
EFF DATE: JULY-01-2010	DWG NO:	02534-05



BLOCKOUT AT INLET
SCALE: NONE

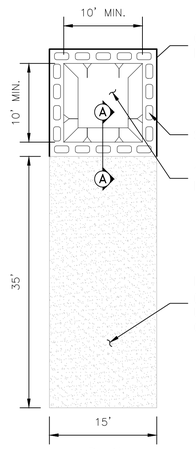


SECTION A-A

CONCRETE TRUCK WASHOUT AREA

CTW

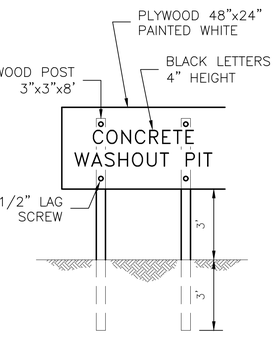
SYMBOL



PLAN

GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN–SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



SIGN DETAIL
(OR EQUIVALENT)

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 200
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO: F-312

REVISION		
NO	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON	143886
NAME	P.E. LICENSE NO.
10/23/2025	
DATE	

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

TBPELS #F-312	TX
FIRM OR BUSINESS NO.	STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE:

DETAILS

C8.01

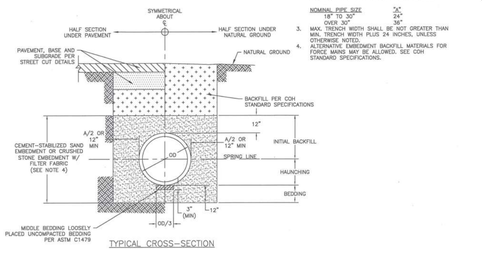
FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-DTLS-52417-009.dwg DATE: October 23, 2025, TIME: 9:28 PM, USER: ah4770

02317-03

NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
2. MIN. TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
36" TO 72"	36"

3. MAX. TRENCH WIDTH SHALL BE NOT GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.

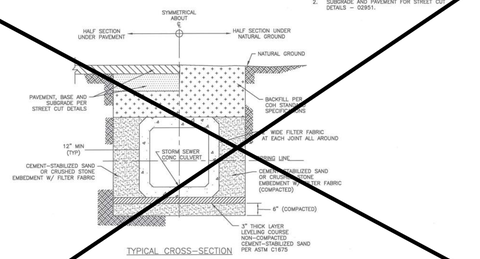


TYPICAL CROSS-SECTION

SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
NTS

02317-05

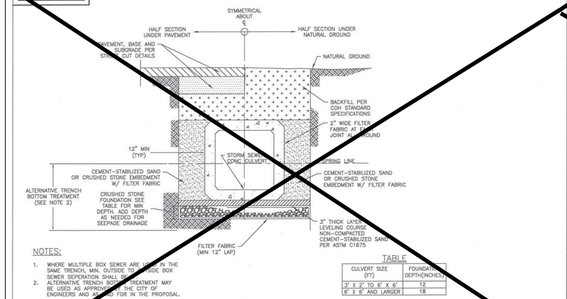
NOTES:
1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 8".
2. SUBGRADE AND PAVEMENT FOR STREET CUT DETAILS – 02951.



TYPICAL CROSS-SECTION

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
NTS

02317-06



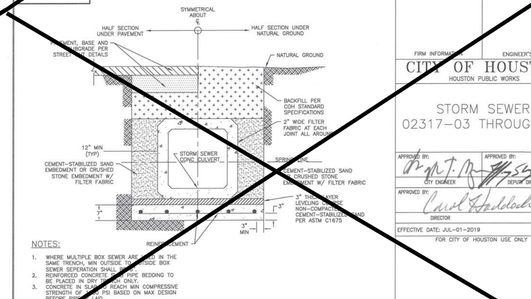
NOTES:
1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 8".
2. ALTERNATIVE TRENCH BOTTOM TREATMENT MAY BE USED AS APPROVED BY THE CITY OF ENGINEERS AND LISTED FOR IN THE PROPOSAL.

TABLE

CULVERT SIZE (IT)	FOUNDATION DEPTH(INCHES)
3' x 2' TO 6' x 6'	12
6' x 6' AND LARGER	18

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR WET STABLE TRENCH
NTS

02317-07



NOTES:
1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 8".
2. REINFORCED CONCRETE SLAB BEDDING TO BE USED ONLY.
3. CONCRETE IN SLAB TO REACH MIN COMPRESSIVE STRENGTH OF 4,000 PSI BASED ON MAX DESIGN BEFORE PLACED.
4. PRECAST SLAB MAYBE USED AS APPROVED BY CITY ENGINEER.

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL WITH SEAL SLAB
NTS

FIRM INFORMATION | ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

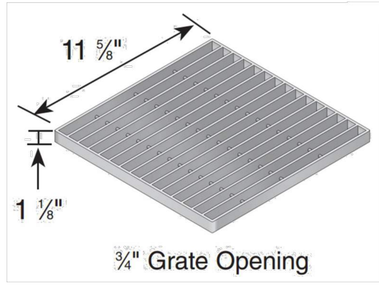
STORM SEWER
02317-03 THROUGH 07

APPROVED BY: CITY ENGINEER | APPROVED BY: DEPUTY DIRECTOR
APPROVED BY: DIRECTOR
EFFECTIVE DATE: JUL-01-2019
FOR CITY OF HOUSTON USE ONLY

SHEET NO.

NDS TECHNICAL SPECIFICATIONS

12" x 12" SQUARE GALVANIZED STEEL GRATE



Material: Galvanized Steel
Weight: 5.85 lbs
Colors: Galvanized Steel (1215)
Fits: Use with 12" catch basin series
Grate Openings: 113.78 in² open space
Will accommodate: 348.07 gallons per minute with 1/2" of head.

Load Recommendation Guide

Class C
- Loads of 176-325 psi.
- Recommended for heavy-duty pneumatic tire forklifts and tractor-trailers at speeds less than 20 m.p.h., H-20 rated.

Note: Some installations may require a concrete collar to meet load rating. Loads are based on encasing product in concrete. (Product must be installed using NDS instructions.)

851 N. Harvard Avenue
Lindsay, CA 93247
800-726-1994

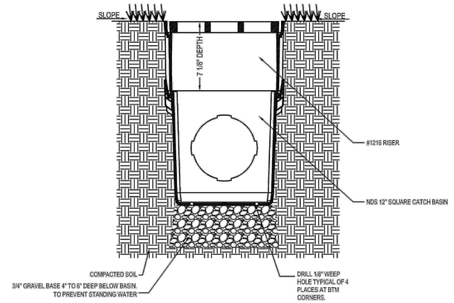
Visit ndspro.com for specs, detail drawings, and case studies

NDS WE PUT WATER IN ITS PLACE

PROJECT NAME: | FILE # ID_CB_12IN_RISER1

NDS We put water in its place

INSTALLATION DETAIL



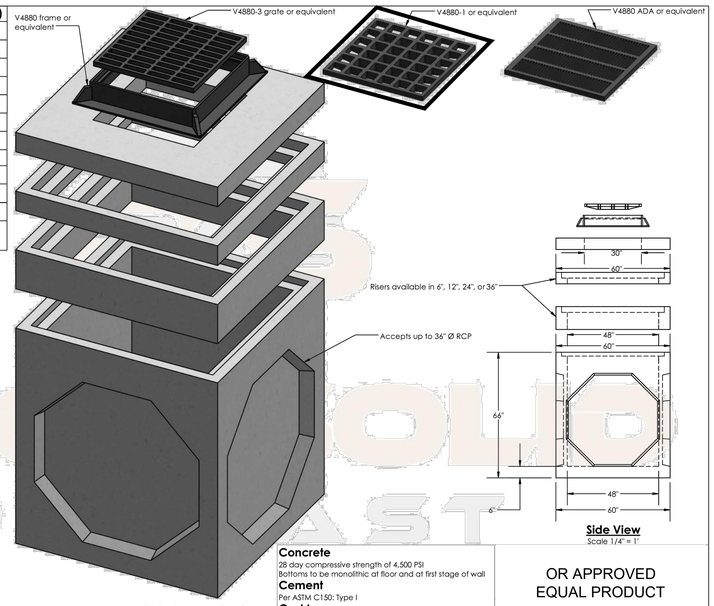
NOTES:
1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
2. RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
3. EXISTING SOILS SHOULD BE EVALUATED TO ENSURE PROPER STRUCTURAL AND PERMEABILITY PROPERTIES.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. RECESS CHANNEL AND GRATE 1/8" FOR PEDESTRIAN TRAFFIC
6. DO NOT SCALE DRAWING.
7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
8. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

SQUARE CATCH BASIN
12" SQUARE CATCH BASIN - RISER INSTALLATION1

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE- designworx@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

SAVE DATE: 5/26/2021 12:05 PM TEMPLATE: QMS-TMP-8.3-05 REV 1.0 - 3/24/2020

Description	Product Code	Weight (Lbs.)
Bases		
48" x 48" x 48" ID Knockout Base	484848BKO	4,710
48" x 48" x 48" ID Base	484848B	7,275
48" x 48" x 60" ID Knockout Base	484848BKO	5,870
48" x 48" x 60" ID Base	484848B	8,520
Risers		
48" x 48" x 6" ID Riser	48486R	515
48" x 48" x 12" ID Riser	484812R	1,190
48" x 48" x 24" Riser	484824R	2,615
48" x 48" x 36" ID Riser	484836R	3,890
Slab Top		
48" x 48" x 6" ID Slab Top (30" x 30" Opening)	4848S6T3030	1,410



Exploded Isometric View
Scale: 1/2" = 1'

Side View
Scale 1/4" = 1'

Cast Iron		
30" x 30" Type A Frame	3030FA	210
30" x 30" Type A Narrow Slot Grate	3030GNS	235
30" x 30" Type A Square Hole Grate	3030GSH	265
30" x 30" Type A ADA Grate	3030GADA	225

Concrete
28 day compressive strength of 4,500 PSI
Bottoms to be monolithic at floor and at first stage of wall
Cement
Per ASTM C150: Type I
Cast Iron
Meets ASTM A48 and CL35B Standards
Loading
Live load: HS-20
Reinforcement
Rebar per ASTM A615 Grade 60

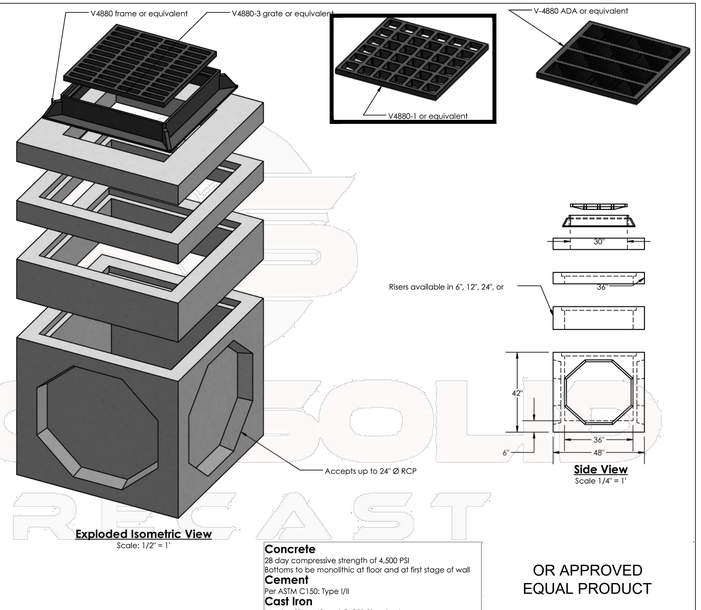
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ROCK SOLID PRECAST, LP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ROCK SOLID PRECAST, LP IS PROHIBITED.

OR APPROVED EQUAL PRODUCT

TITLE
48" x 48" Type A Submittal

DWG. NO. 48A Drawing Submittal
DRAWN MKK | CHECKED | WEIGHT Varies

Description	Product Code	Weight (Lbs.)
Bases		
36" x 36" x 36" ID Knockout Base	363636BKO	2,980
36" x 36" x 36" ID Base	363636B	4,310
36" x 36" x 48" ID Knockout Base	363648BKO	3,960
36" x 36" x 48" ID Base	363648B	5,360
Risers		
36" x 36" x 6" ID Riser	36366R	485
36" x 36" x 12" ID Riser	363612R	1,010
36" x 36" x 24" ID Riser	363624R	2,060
36" x 36" x 36" ID Riser	363636R	3,110
Slab Top		
36" x 36" x 6" Slab Top with 30" x 30" Opening	3636S6T3030	735
Cast Iron		
30" x 30" Type A Frame	3030FA	210
30" x 30" Type A Narrow Slot Grate	3030GNS	235
30" x 30" Type A Square Hole	3030GSH	265
30" x 30" Type A ADA Grate	3030GADA	225



Exploded Isometric View
Scale: 1/2" = 1'

Side View
Scale 1/4" = 1'

Concrete
28 day compressive strength of 4,500 PSI
Bottoms to be monolithic at floor and at first stage of wall
Cement
Per ASTM C150: Type I/II
Cast Iron
Meets ASTM A48 and CL35B Standards
Loading
Live Load - H-20
Reinforcement
Rebar per ASTM A615 Grade 60
Wire Mesh per ASTM A1064

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ROCK SOLID PRECAST, LP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ROCK SOLID PRECAST, LP IS PROHIBITED.

OR APPROVED EQUAL PRODUCT

TITLE
36" x 36" Type A Submittal

DWG. NO. 36A Drawing Submittal
DRAWN MKK | CHECKED | WEIGHT Varies

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 175
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO: F-312

REVISION NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
TYLER EATON 143886
NAME P.E. LICENSE NO.
10/23/2025
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:
HALFF ASSOCIATES, INC.
TBPELS #F-312 TX
FIRM OR BUSINESS NO. STATE

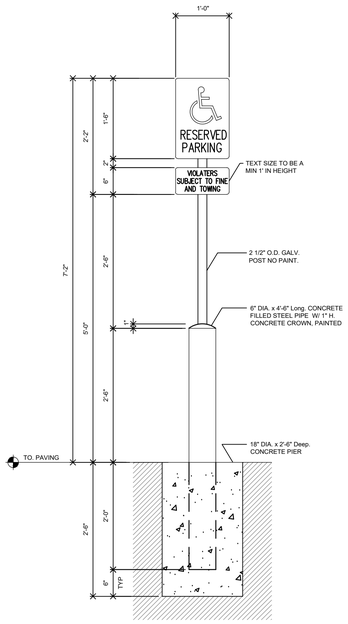
PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE:
DETAILS

C8.02

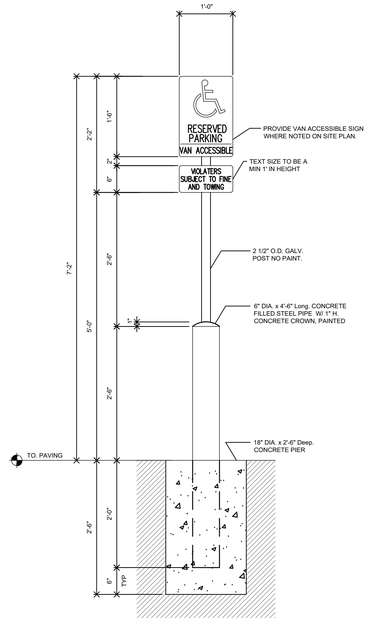
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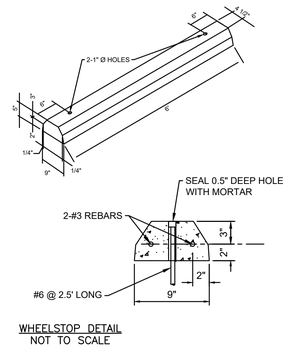
HANDICAP PARKING SIGN

SCALE: Not to Scale

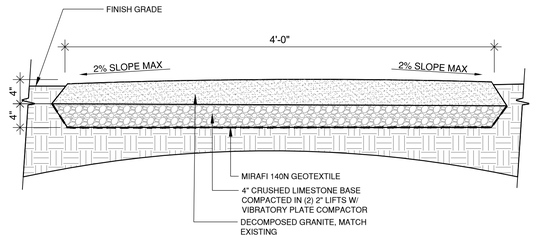


VAN ACCESSIBLE PARKING SIGN

SCALE: Not to Scale



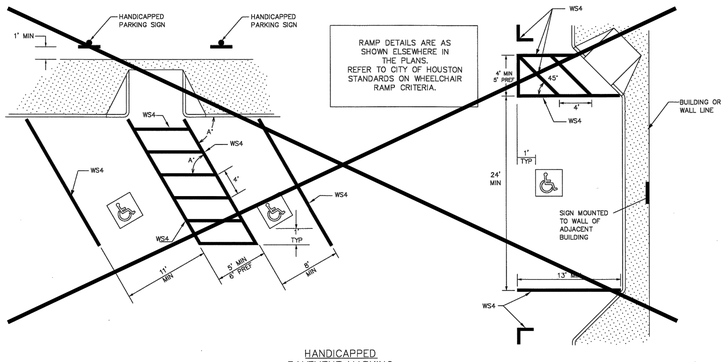
WHEELSTOP DETAIL
NOT TO SCALE

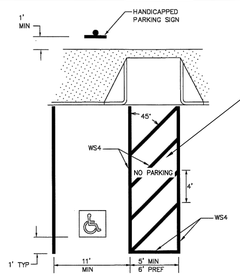


NOTES:
1. DECOMPOSED GRANITE SURFACES SHALL BE WETTED AND COMPACTED TO FORM A STABLE, FIRM, AND SLIP RESISTANT SURFACE.
2. SIZE: MATCH EXISTING
3. COLOR: MATCH EXISTING
4. CONTRACTOR TO PROVIDE SUBMITTALS FOR APPROVAL BY LANDSCAPE ARCHITECT.

DECOMPOSED GRANITE TRAIL

TYPICAL ACCESSIBLE PARKING SPACE DIMENSIONS

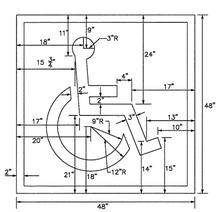




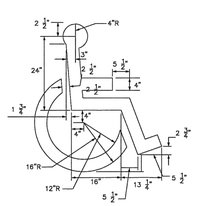
"NO PARKING" SHALL BE PAINTED IN ALL CAPITAL LETTERS. LETTERS SHALL HAVE A HEIGHT OF AT LEAST 12" AND A STROKE WIDTH OF AT LEAST 2" AND SHALL BE CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE PER RULE 68.104 ACCESSIBLE PARKING SPACES (TEXAS ADMINISTRATIVE CODE).

NOTES:
1. ALL PARKING SPACE LIMIT LINES SHALL BE 4", WS4.
2. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
3. DIMENSIONS OF LIMIT LINES, AISLE MARKINGS, AND SYMBOL (WITH OR WITHOUT BACKGROUND) MAY VARY ± 10%.
4. PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
   A) ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS,
   B) SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE,
   C) MAY BE PAINTED OR PREFABRICATED MATERIAL, AND
   D) SHALL BE 30"x 30" MINIMUM.
5. WITH APPROVAL OF THE [redacted] PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30"x 30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL AND BORDER.
6. ALL SLOPE IN AND AROUND EXPECTED WHEELCHAIR PATH SHALL NOT EXCEED ADA REQUIREMENTS FOR WHEELCHAIR RAMPS.
7. [redacted]
8. [redacted]

HANDICAPPED PAVEMENT MARKING SYMBOLS

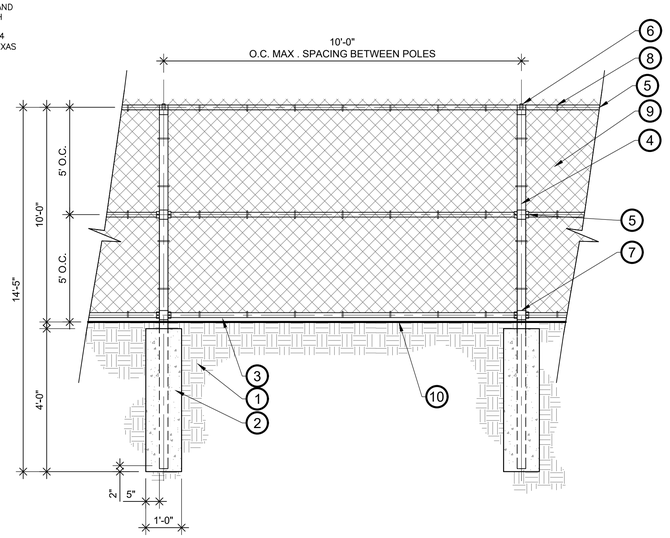


WITH BACKGROUND
SYMBOL & BORDER: WHITE
BACKGROUND: BLUE



SYMBOL ONLY
SYMBOL: BLUE OR WHITE

CITY OF HOUSTON HOUSTON PUBLIC WORKS	
PAVEMENT MARKINGS FOR ACCESSIBLE PARKING (NOT TO SCALE)	
CITY TRAFFIC ENGINEER CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL-01-2018	DWG NO: 01510-07



ELEVATION

10' VINYL COATED, PERIMETER CHAINLINK FENCE

1/2" = 1'-0"

KEY:
1. COMPACTED SUBGRADE TO 95% MAX DENSITY
2. 12" WIDE CONCRETE FOOTING, 4'-0" DEPTH, 3000 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO NATURAL GROUND
4. 2-7/8" O.D. GALVANIZED BLACK VINYL VERTICAL ROUND HOLLOW STEEL PIPE
5. 1-5/8" O.D. GALVANIZED BLACK VINYL HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP, MIDDLE & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" BLACK VINYL LOOP CAPS
7. 2-7/8" X 1-5/8" BLACK VINYL LINE RAIL CLAMPS
8. WIRE TIES BLACK VINYL 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND BLACK VINYL MESH CHAIN LINK FENCE
10. FINISH GRADE

NOTES:
1.) ALL FENCE FABRIC TO BE ON THE INSIDE
2.) ALL MATERIALS TO BE GALVANIZED BLACK V INYL FRAMEWORK 40 WEIGHT
3.) ALL CHAINLINK TO BE BLACK VINYL COATED
4.) FENCING GAUGES: (PRIOR TO VINYL COATING CHAINLINK FENCE) USE 6 GAUGE CHAIN LINK FENCE

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO: F-312

REVISION		
NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON	143886
NAME	P.E. LICENSE NO.
10/23/2025	
DATE	

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HALFF ASSOCIATES, INC.

TBPELS #F-312	TX
FIRM OR BUSINESS NO.	STATE

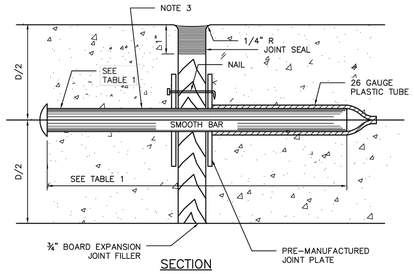
PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE:

DETAILS

C8.03

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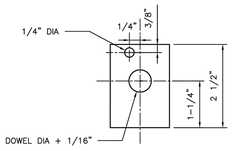
SECTION

DOWEL TYPE EXPANSION JOINT



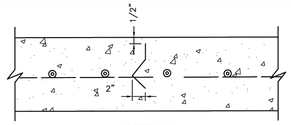
PLAN VIEW

JOINT PLATE



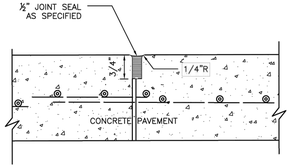
ELEVATION VIEW

JOINT PLATE



SECTION

DEFORMED METAL STRIP



SECTION

CONSTRUCTION JOINT SEAL

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS			
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED 12" CENTER ON CENTER.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN COVER.
5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

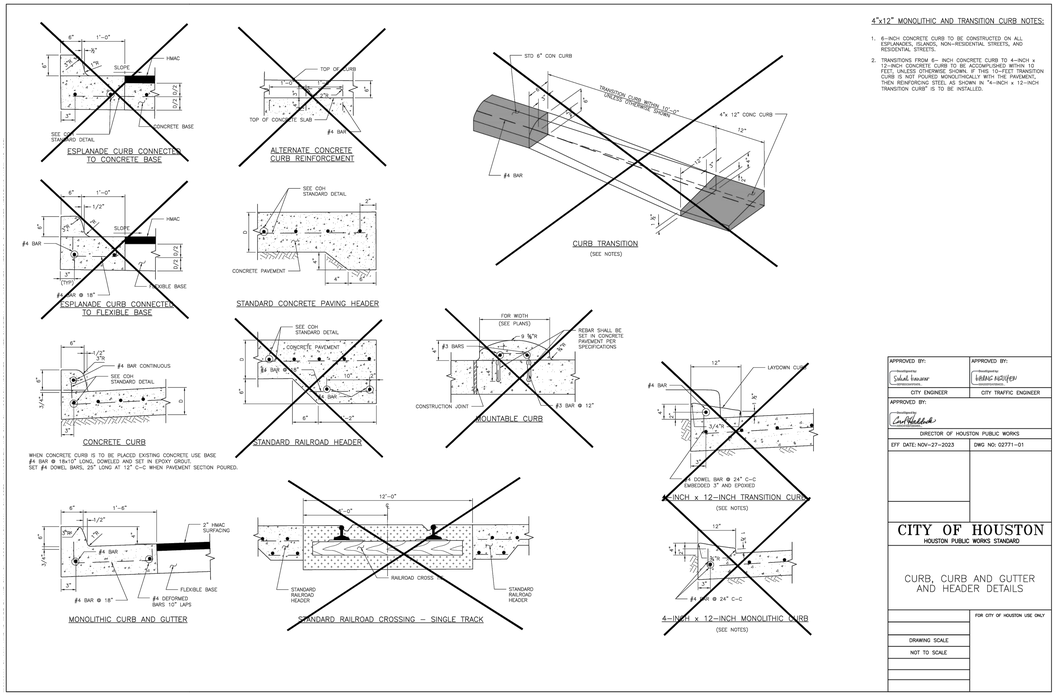
PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

Developed by: Sukut Iruvar — CITY ENGINEER
Developed by: HANG NGUYEN — CITY TRAFFIC ENGINEER
Developed by: Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 02752-01



WHEN CONCRETE CURB IS TO BE PLACED EXISTING CONCRETE USE BASE #4 BAR @ 18x10" LONG, DOWELED AND SET IN EPOXY GROUT. SET #4 DOWEL BARS, 25" LONG AT 12" C-C WHEN PAVEMENT SECTION POURED.

4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL RESIDENTIAL STREETS, NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS.
2. TRANSITIONS FROM 6- INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10'-0" OF THE 4-INCH x 12-INCH CURB. WHERE THE TRANSITION CURB IS NOT POURED MONOLITHICALLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.

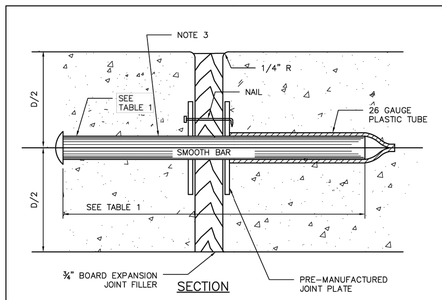
APPROVED BY:	APPROVED BY:
Sukut Iruvar	HANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02771-01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CURB, CURB AND GUTTER AND HEADER DETAILS

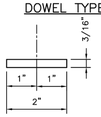
FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: NOT TO SCALE



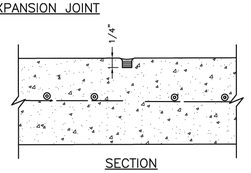
SECTION

DOWEL TYPE EXPANSION JOINT



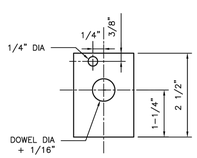
PLAN VIEW

JOINT PLATE



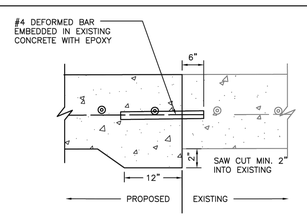
SECTION

CONTROL JOINT



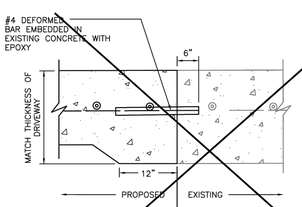
ELEVATION VIEW

JOINT PLATE



SECTION

SIDEWALK TO EXISTING SIDEWALK



SECTION

SIDEWALK TO EXISTING DRIVEWAY

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS			
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
4 1/2	1/2	18	12
5	1/2	18	12
6	3/4	18	12
7	1	18	12

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 3 FEET MAXIMUM SPACING FOR CONTROL JOINTS SHALL BE 5 FEET.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE AS NEEDED TO MAINTAIN A 2 INCH MINIMUM COVER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

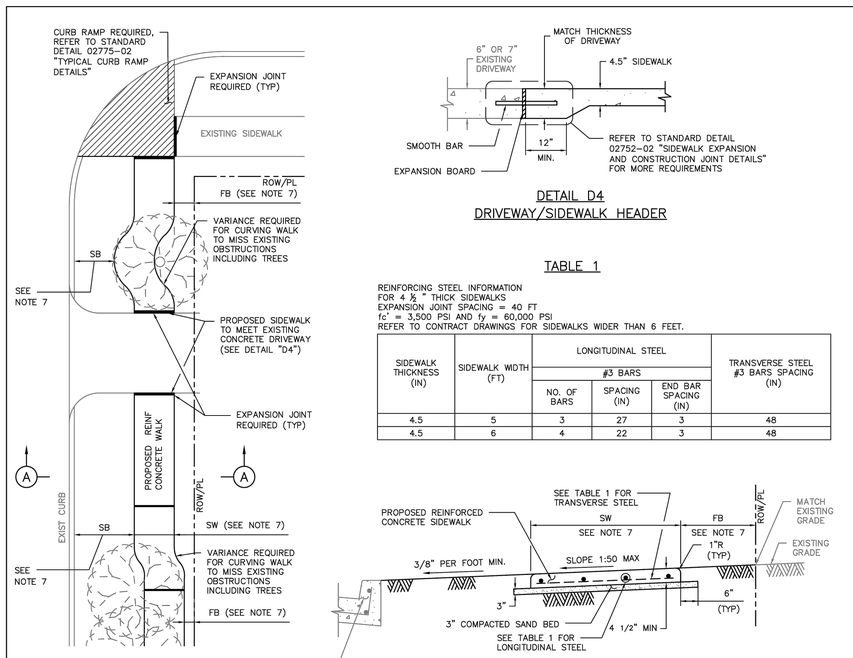
SIDEWALK EXPANSION AND CONSTRUCTION JOINT DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

Developed by: Sukut Iruvar — CITY ENGINEER
Developed by: HANG NGUYEN — CITY TRAFFIC ENGINEER
Developed by: Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 02752-02



PLAN VIEW

DETAIL D4

DRIVEWAY/SIDEWALK HEADER

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
f'_c = 3,500 PSI AND f_y = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		#3 BARS			
		NO. OF BARS	SPACING (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48

SECTION A–A

NOTES:

1. 6X6 – W2.9XW2.9 WELDED WIRE FABRIC MAY BE USED IN LIEU OF THE REINFORCING STEEL GIVEN IN TABLE 1.
2. REINFORCED CONCRETE SIDEWALKS THRU DRIVEWAYS OPENINGS SHALL BE EITHER 6" THICK OR 7" THICK AS SPECIFIED ON 6" STABILIZED SUBGRADE. FOR THE REINFORCING STEEL REQUIREMENTS, SEE CITY OF HOUSTON STANDARD DETAILS 02754–01A, 02754–01B, 02754–03, AND 02754–04.
3. MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET.
4. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.
5. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
6. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
7. REFER TO CONTRACT DRAWINGS FOR SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL SIDEWALK LAYOUT AND DETAILS FOR STREETS WITH CURBS

(SCALE: NOT TO SCALE)

APPROVED BY:

Developed by: Sukut Iruvar — CITY ENGINEER
Developed by: HANG NGUYEN — CITY TRAFFIC ENGINEER
Developed by: Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 02775-01

REVISION NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS — TYLER P. EATON — 143886 — LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON — NAME — 143886 — P.E. LICENSE NO.
10/23/2025 — DATE

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TBPELS #F-312 — FIRM OR BUSINESS NO. — TX — STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A

SHEET TITLE: DETAILS

C8.04

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
TEL: (713) 588-2450
TBPELS FIRM NO: F-312

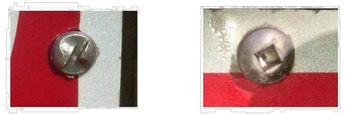
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TYPICAL STOP SIGN
.08" THICK ALUMINUM
WHITE BLANK WITH STOP SIGN RED OVERLAY
AFFIX WITH VANDAL RESISTANT SCREWS
SIGN IS 9 1/2" WIDE BY
9 1/2" TALL (OCTAGON)

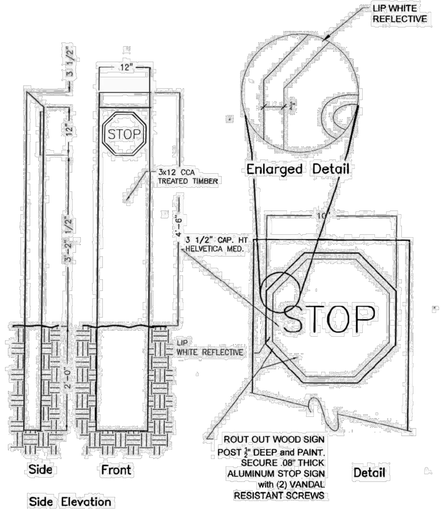


TYPICAL STOP SIGN
MONTGOMERY COUNTY



VANDAL RESISTANT SCREW VARIATIONS - REQUIRED

6 STOP SIGN IMAGES

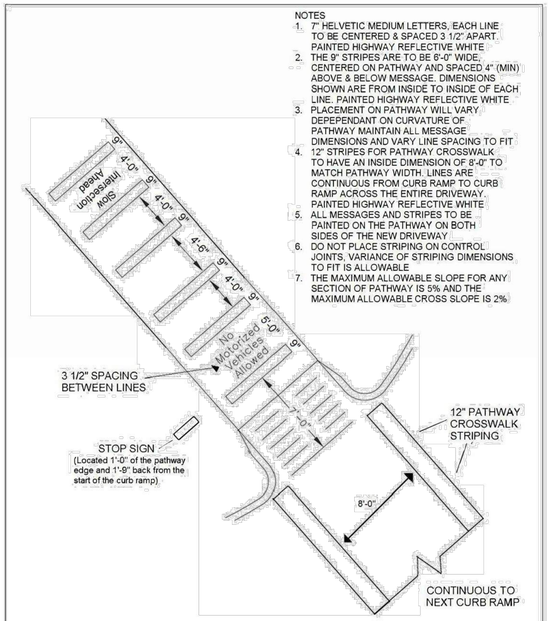


NOTE: COLOR BLEND FOR SHERWIN WILLIAMS PAINT, DRIFTWOOD EXTERIOR, WOODSCAPES, LATEX, FLAT, STAIN

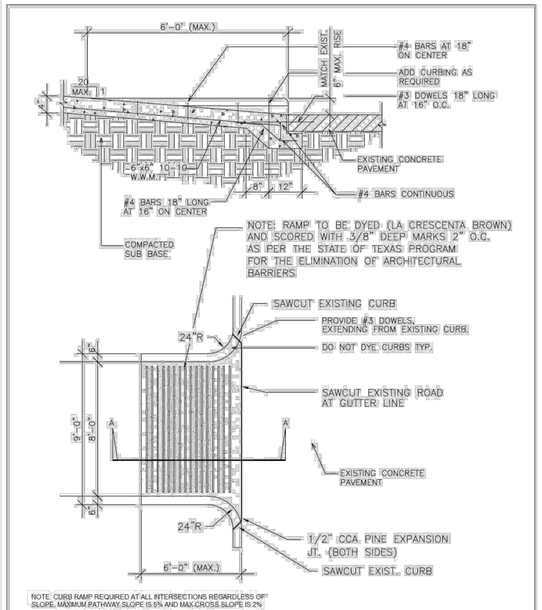
COLORANT	Oz	32	64	128
W1 White	6	40	1	1
B1 Black	2	20	1	1
G2 New Green	1	1	1	1
N1 Raw Umber	1	1	1	1

NOTE: SIGN LOCATION RELATIVE TO PATHWAY AND STREET

3 STOP SIGN DETAIL MONTGOMERY COUNTY - NTS

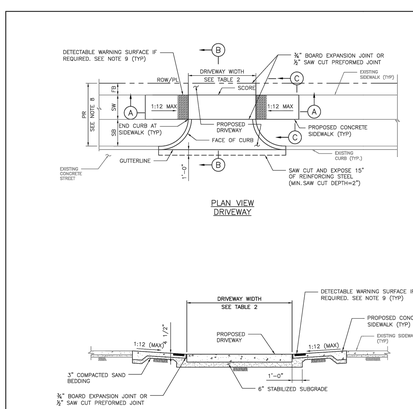


1 PATHWAY STENCILING AND STOP SIGN LOCATION - NTS

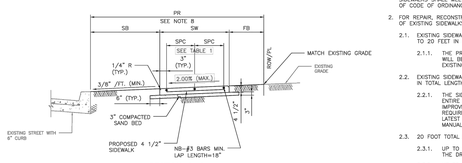


NOTE: CURB RAMP REQUIRED AT ALL INTERSECTIONS REGARDLESS OF SLOPE. MAXIMUM PATHWAY SLOPE IS 5% AND MAX CROSS SLOPE IS 2%

2 CURB CUT AND RAMP - NTS
COMMERCIAL PROPERTY DRIVEWAY AND TOWNSHOP OWNED PATHWAY INTERSECTION COMPLIANCE PACKAGE FOR PATHWAYS NOT LOCATED IN THE RIGHT-OF-WAY.



PLAN VIEW
DRIVEWAY



SECTION C–C
TYPICAL SIDEWALK SECTION

NOTES:

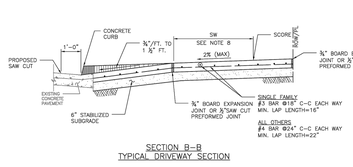
1. REPAIR, RECONSTRUCTION OR REPLACEMENT OF SIDEWALKS SHALL MEET PERMITTING REQUIREMENTS OF CODE OF ORDINANCES SECTION 40-552.
2. FOR REPAIR, RECONSTRUCTION, OR REPLACEMENT OF EXISTING SIDEWALKS:
   - 2.1. EXISTING SIDEWALKS LESS THAN OR EQUAL TO 20 FEET IN TOTAL LENGTH:
     - 2.1.1. THE PROPOSED SIDEWALK WIDTH WILL BE ALLOWED TO MATCH THE EXISTING SIDEWALK.
   - 2.2. EXISTING SIDEWALKS GREATER THAN 20 FEET IN TOTAL LENGTH:
     - 2.2.1. THE SIDEWALK WIDTH FOR THE ENTIRE PROPERTY WITH SHALL BE REQUIRED TO MEET WIDTH REQUIREMENTS ACCORDING TO THE LATEST INFRASTRUCTURE DESIGN MANUAL.
   - 2.3. 20 FOOT TOTAL LENGTH IS DEFINED AS:
     - 2.3.1. UP TO 10 FEET ON BOTH SIDES OF THE DRIVEWAY; OR
     - 2.3.2. UP TO 20 FEET WHEN SIDEWALK AFFECTED IS LOCATED ONLY ON ONE SIDE OF THE DRIVEWAY.
3. ALL JOINTS ALONG THE SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO DRAWING 02752-02 AND SPECIFICATION 02752.
4. DRIVEWAYS SHALL BE MINIMUM 6" THICK FOR SINGLE FAMILY AND DUPLEXES. DRIVEWAYS SHALL BE MINIMUM 7" THICK FOR ALL OTHERS (I.E. COMMERCIAL, INDUSTRIAL, ETC.)
5. DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE AND INCLUDE 5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
6. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
7. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
8. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.
9. DETECTABLE WARNING SURFACES:
   - 9.1. SIDEWALK SHALL HAVE A DETECTABLE WARNING SURFACE WHERE:
     - 9.1.1. SIDEWALK INTERSECTS TYPE C DRIVEWAYS (COMMERCIAL DRIVEWAYS) THAT ARE STOP, YIELD, OR TRAFFIC SIGNAL CONTROLLED; OR
     - 9.1.2. SIDEWALK SLOPE IS GREATER THAN 1:20 AND INTERSECTS A TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)
   - 9.2. DETECTABLE WARNING SURFACES ARE OPTIONAL WHERE SIDEWALKS INTERSECT TYPE A DRIVEWAYS (SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES) OR TYPE B DRIVEWAYS, (SHARED ACCESS/SHARED DRIVEWAYS).
   - 9.3. REFER TO STANDARD DETAILS 02775-06 TO 02775-07 FOR DETECTABLE WARNING SURFACE STANDARDS.

SECTION A–A
PROPOSED SIDEWALK THROUGH DRIVEWAY
WITH EXCESSIVE ELEVATION DIFFERENCE
WITH EXISTING SIDEWALK

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
f'_c = 3,000 PSI AND f_y = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL #3 BARS			TRANSVERSE STEEL #3 BARS SPACING (IN)
		NO. OF BARS "NB"	SPACING "SPC" (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48



SECTION B–B
TYPICAL DRIVEWAY SECTION

TABLE 2

DRIVEWAY DESIGN CRITERIA (1)(2)

TRAFFIC TYPE	TYPE A DRIVEWAY (FOR SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES)				TYPE B DRIVEWAY (SHARED ACCESS/SHARED DRIVEWAY)				TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)			
	WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ONE-WAY	10	12	4	10	$12^{(3)}$	$16^{(3)}$	$4^{(3)}$	$10^{(3)}$	15	20	10	20
TWO-WAY	$10^{(7)}$	$24^{(4)}$	4	10	$16^{(3)}$	24	4	10	24	35	10	20

(1) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLE 15.2.07.C.1.F FOR DRIVEWAYS THAT REQUIRE A VEHICLE SWEPT PATH ANALYSIS.
(2) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLES 15.2.07.C.1.G(1) AND 15.2.07.C.1.G(2) FOR TYPE 1 PAE AND TYPE 2 PAE REQUIREMENTS.
(3) THE MINIMUM WIDTH FOR JOINT ACCESS DRIVEWAY IS 12 FT.
(4) REFER TO CHAPTER 42 OF THE CODE OF ORDINANCES FOR DRIVEWAY WIDTHS FOR NARROW LOTS.
(5) ONLY MURS AND COURTYARD STYLE DEVELOPMENTS ON CORNER LOTS CAN HAVE ONE-WAY DRIVEWAYS.
(6) REFER TO CHAPTER 42, SECTION 42-146 OF THE CODE OF ORDINANCES FOR EXCEPTIONS TO THE MINIMUM DRIVEWAY WIDTH FOR SHARED DRIVEWAYS.

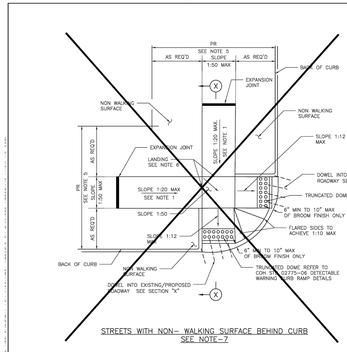
APPROVED BY:	APPROVED BY:
Signature: Sohail Iskander	Signature: LIANG MEIHUEY
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Signature: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02754-01B

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DRIVEWAY DETAIL WITH 6" CURBED STREETS

FOR CITY OF HOUSTON USE ONLY

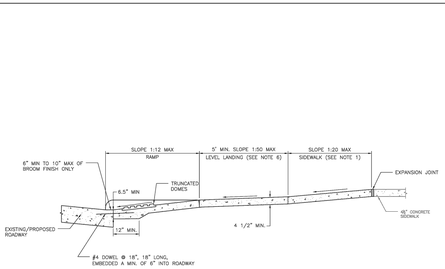
DRAWING SCALE
NOT TO SCALE



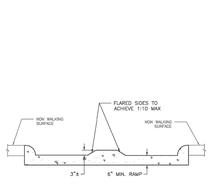
STREETS WITH NON– WALKING SURFACE BEHIND CURB
SEE NOTE–7

NOTES:

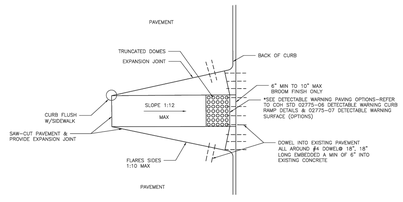
1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE
2. BROOM FINISH IS MEASURED FROM FACE OF CURB.
3. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
4. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
5. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR) WIDTH.
6. MINIMUM 5'x5' LANDING PAD ACCORDING TO ADA REQUIREMENTS. WHEN THE APPROACHING SIDEWALK IS WIDER THAN 5', THE LANDING PAD AND RAMP WIDTH MUST MATCH THE SIDEWALK WIDTH.
7. FOR STREETS WITH WALKABLE SURFACES IMMEDIATELY BEHIND THE CURB A FLARE IS REQUIRED ON BOTH SIDES OF THE RAMP.



SECTION X–X



ELEVATION
LOOKING UP RAMP



CURB RAMP CONSTRUCTION FOR EXISTING PAVEMENT

APPROVED BY:	APPROVED BY:
Signature: Sohail Iskander	Signature: LIANG MEIHUEY
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Signature: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02775-02

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL CURB RAMP DETAILS

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE
NOT TO SCALE

PARD
8203 MILLENNIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD.
THE WOODLANDS, TX 77381

halff
1400 ST. MARY'S LN.
SUITE 160
HOUSTON, TX 77079
TEL: (713) 979-6464
TBPELS FIRM NO. F-312

REVISION NO.	DATE	DESCRIPTION

10/23/2025

STATE OF TEXAS
TYLER P. EATON
143886
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

TYLER EATON 143886
NAME P.E. LICENSE NO.
10/23/2025
DATE

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HALFF ASSOCIATES, INC.

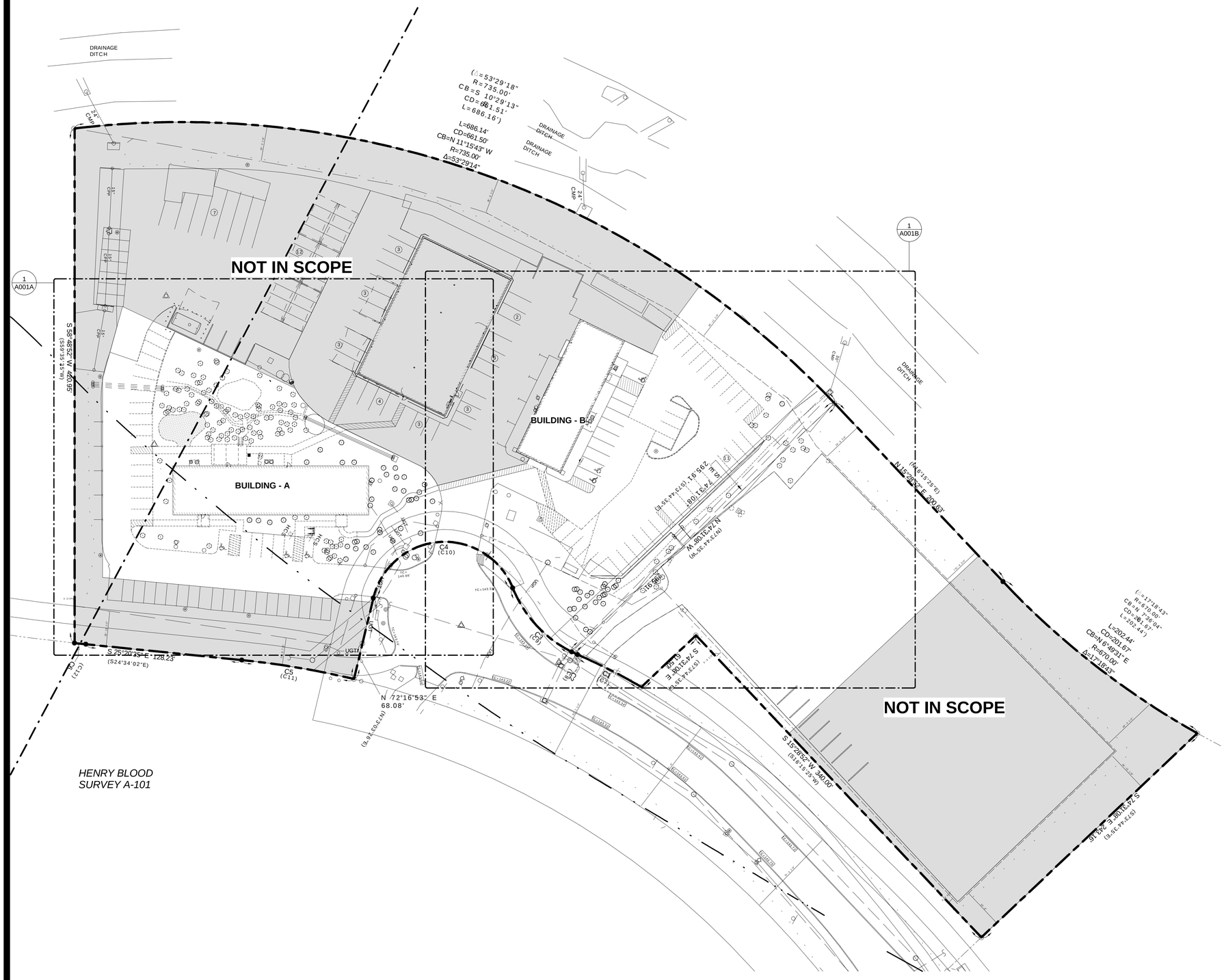
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FIRM OR BUSINESS NO. STATE

PROJECT NO.:	52417.009
ISSUED:	10/23/2025
DRAWN BY:	PN
CHECKED BY:	TE
SCALE:	N/A
SHEET TITLE:	

DETAILS

C8.05

FILE NAME: A:\52000s\52417\009\LD\CADD\Sheets\C-PLAN-DTLS-52417-009.dwg DATE: October 23, 2025, TIME: 9:28 PM, USER: ah4770



GENERAL NOTES

A. DEMOLITION CONTRACTOR SHALL NOT DO ANY CUTTING, AND REMOVAL OF ITEMS, WHETHER SPECIFICALLY INDICATED OR NOT, WHICH WOULD OBVIOUSLY INTERFERE WITH OR BE INCONGRUOUS TO THE PROPOSED CONSTRUCTION OR NEW FINISHES OR NEGATIVELY IMPACT OTHER SPACES OUTSIDE THE PROPOSED LIMITS OF CONSTRUCTION

B. DEMOLITION CONTRACTOR SHALL PROVIDE AND PLACE ALL SHORING OR STRUCTURAL UNDERPINNING REQUIRED TO SUPPORT EXISTING CONSTRUCTION DURING LL PHASES OF CONSTRUCTION

C. DEMOLITION CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO SUITABLY SCREEN DEMOLITION WORK FROM PUBLIC VIEW AND PROTECT THE PUBLIC'S SAFETY, AS WELL AS COMPLY WITH ALL LOCAL CODES AND ORDINANCES FOR REMOVAL OF MATERIAL

D. ALL ITEMS AND FINISHES WHICH ARE TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION. ANY DAMAGE WHICH OCCURS DURING DEMOLITION SHALL BE CORRECTED BY THE DEMOLITION CONTRACTOR AT THE DEMOLITION CONTRACTORS EXPENSE UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR

E. DEMOLITION CONTRACTOR SHALL PROVIDE ANY BARRICADES, SUPPORTS, RAILINGS, ETC., AS REQUIRED BY OSHA, AS WELL AS TO PROVIDE SAFE WORKING CONDITIONS.

F. ANY ASBESTOS ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION SHALL BE REMOVED OR ENCAPSULATED BY A LICENSED ASBESTOS CONTRACTOR. CONFIRM AND REVIEW ASBESTOS REPORT FINDINGS WITH OWNER

G. CONTRACTOR SHALL CONFIRM WITH ALL GUIDELINES CONCERNING SITE SAFETY, DUST ABATEMENT, AND CONTROL AND DISPOSAL

H. EXISTING WALLS TO REMAIN TO BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AS REQUIRED. REPAIR ANY DAMAGE TO "AS NEW" CONDITION

I. SCOPE OF DEMOLITION TO BE CONFIRMED WITH OWNER / ARCHITECT PRIOR TO START OF WORK.

J. ALL UTILITIES ARE EXISTING TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

K. LANDSCAPE AND IRRIGATION SYSTEMS WILL BE UNDER DEFERRED PERMIT OWNER'S LANDSCAPE AND IRRIGATION CONTRACTOR.

L. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO EXISTING CONDITIONS. ALL DIMENSIONS ARE TO FINISH FACE UNLESS NOTED OTHERWISE.

M. ALL ROOF PENETRATIONS, CURBS, AND ADDITIONAL BRACING SHALL BE BY GENERAL CONTRACTOR AND IN ACCORDANCE WITH ROOF MANUFACTURING DETAILS AND SPECIFICATIONS TO MAINTAIN ROOF WARRANTY.

N. ROOF DRAINAGE IS EXISTING, COLLECTION TO REMAIN. GENERAL CONTRACTOR SHALL ENSURE THAT EXISTING DRAINAGE PATTERS ARE MAINTAINED.

SYMBOL LEGEND SITE

DEMO ITEMS

AREA NOT IN SCOPE

EXISTING/DEMO SITE PLAN
1" = 40'-0"

1

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REGISTERED ARCHITECT BRIAN TIPPS 18756 STATE OF TEXAS

10/22/2025

Heights Venture
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PARD CAMPUS

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THE WOODLANDS, TX 77381

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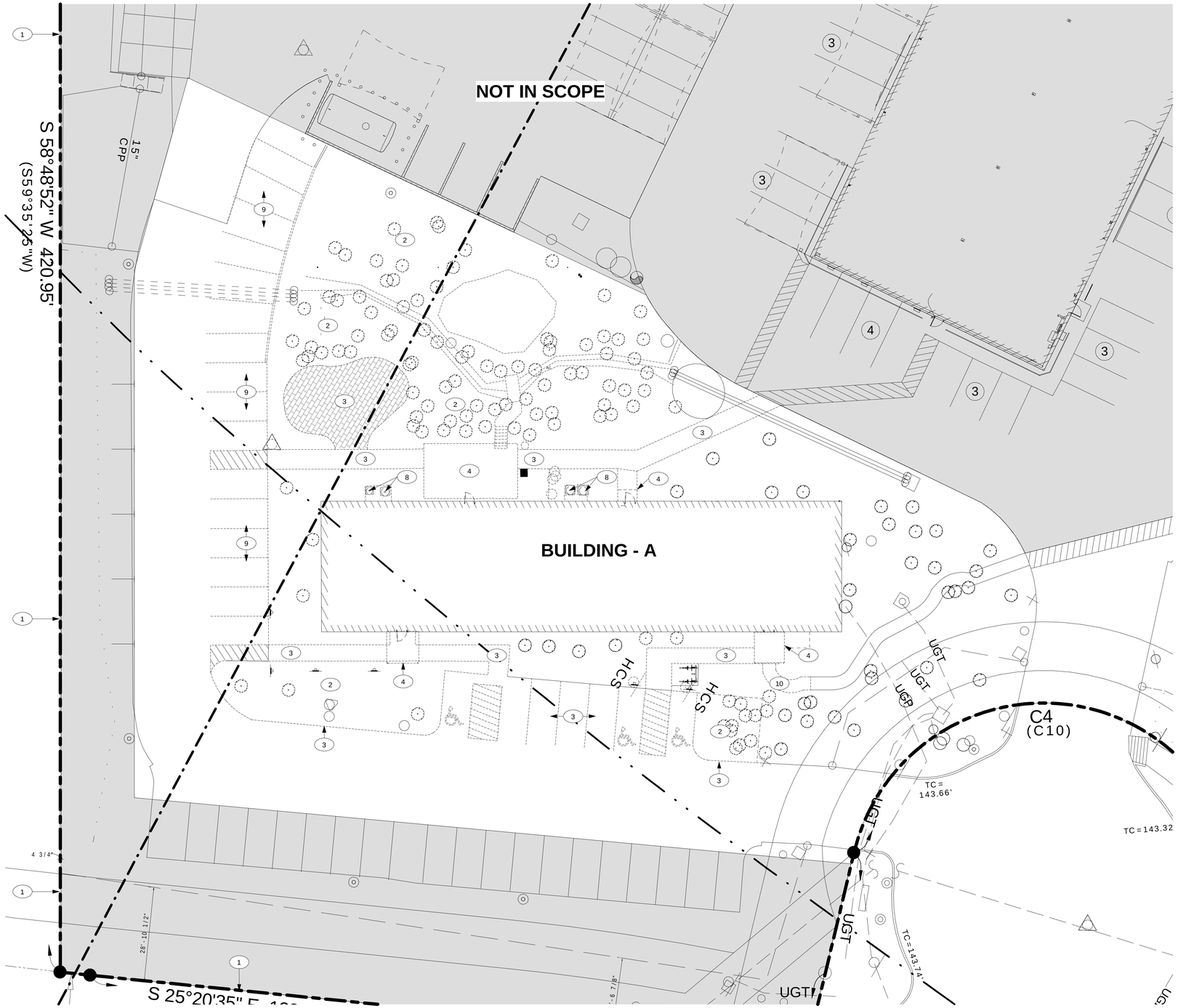
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EXISTING/DEMO SITE PLAN

A001

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EXISTING/DEMO KEY NOTES: (#)

1. PROPERTY LINE, RE: PLAT & TOPOGRAPHIC SURVEY.
2. DEMOLISH EXISTING LANDSCAPE, TREES AND/OR IRRIGATION RE: CIVIL DWG'S
3. DEMOLISH EXISTING CONCRETE CURBS, SIDEWALKS, PAVEMENTS RE: CIVIL DWG'S
4. DEMOLISH EXISTING EQUIPMENT AND AWNINGS RE: CIVIL DWG'S
5. DEMOLISH EXISTING KEYPADS AND/OR ELECTRICAL DEVICES RE: CIVIL DWG'S
6. DEMOLISH EXISTING SIGNS AND/OR PARKING SIGNS RE: CIVIL DWG'S
7. DEMOLISH EXISTING FENCES AND/OR GATES RE: CIVIL DWG'S
8. RELOCATE EXISTING MECHANICAL EQUIPMENT RE: CIVIL AND MEP DWG'S
9. EXISTING PARKING STRIPPING TO BE RESTRIPPED RE: CIVIL DWG'S
10. DEMOLISH / REMOVE EXISTING PAVING RE: CIVIL DWG'S
11. REMOVE / RELOCATE EXISTING SECURITY CAMERA RE: CIVIL DWG'S
12. REMOVE / RELOCATE EXISTING GATE MOTOR EQUIPMENT RE: CIVIL DWG'S

EXISTING ENLARGED/DEMO SITE PLAN BUILDING - A
1/16" = 1'-0"

1

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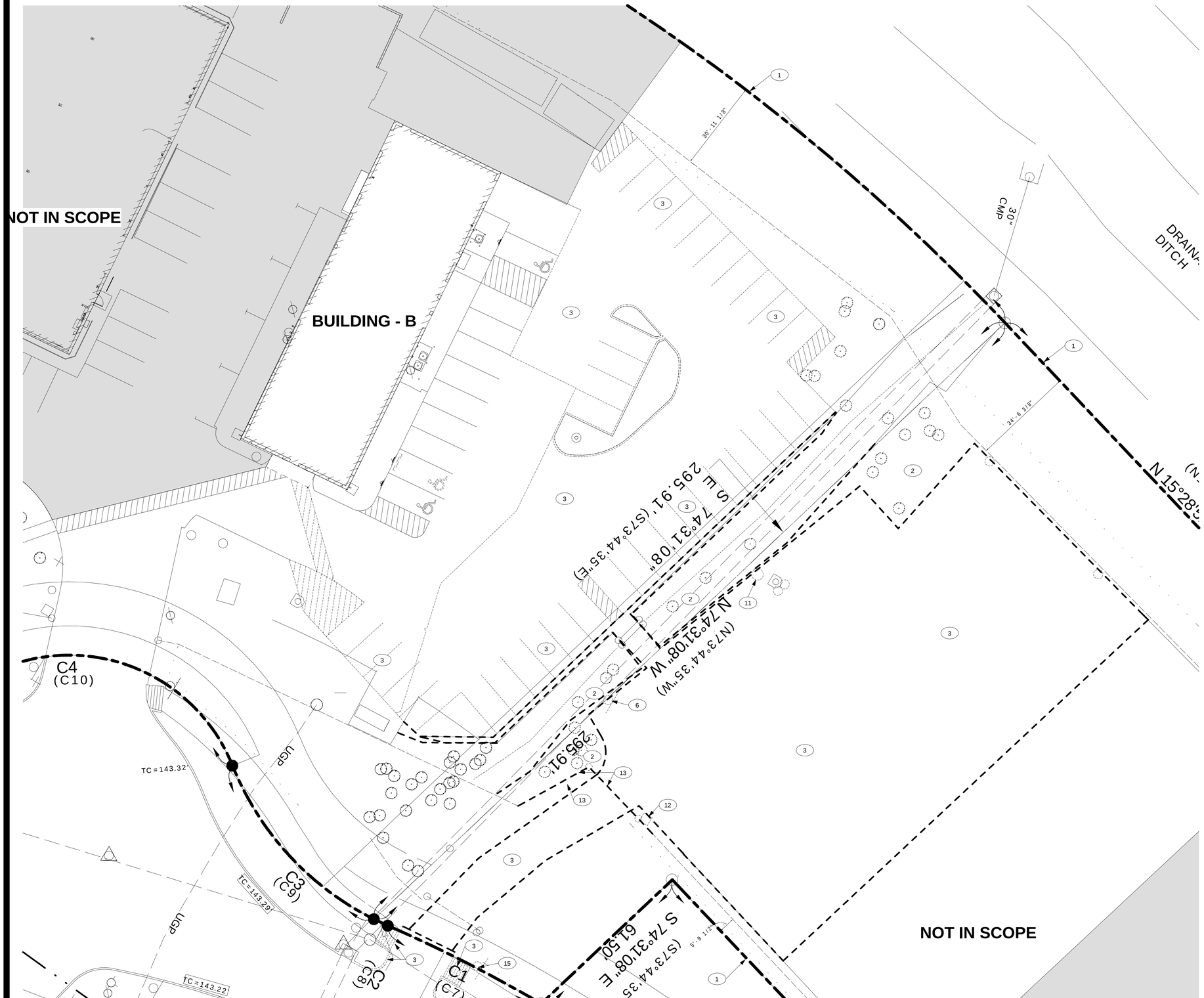
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EXISTING ENLD/DEMO SITE PLAN BLDG - A

A001A

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EXISTING ENLARGED/DEMO SITE PLAN BUILDING - B

1/16" = 1'-0"

1

EXISTING/DEMO KEY NOTES: (#)

1. PROPERTY LINE, RE: PLAT & TOPOGRAPHIC SURVEY.
2. DEMOLISH EXISTING LANDSCAPE, TREES AND/OR IRRIGATION RE: CIVIL DWG'S
3. DEMOLISH EXISTING CONCRETE CURBS, SIDEWALKS, PAVEMENTS RE: CIVIL DWG'S
4. DEMOLISH EXISTING EQUIPMENT AND AWNINGS RE: CIVIL DWG'S
5. DEMOLISH EXISTING KEYPADS AND/OR ELECTRICAL DEVICES RE: CIVIL DWG'S
6. DEMOLISH EXISTING SIGNS AND/OR PARKING SIGNS RE: CIVIL DWG'S
7. DEMOLISH EXISTING FENCES AND/OR GATES RE: CIVIL DWG'S
8. RELOCATE EXISTING MECHANICAL EQUIPMENT RE: CIVIL AND MEP DWG'S
9. EXISTING PARKING STRIPPING TO BE RESTRIPPED RE: CIVIL DWG'S
10. DEMOLISH / REMOVE EXISTING PAVING RE: CIVIL DWG'S
11. REMOVE / RELOCATE EXISTING SECURITY CAMERA RE: CIVIL DWG'S
12. REMOVE / RELOCATE EXISTING GATE MOTOR EQUIPMENT RE: CIVIL DWG'S
13. REMOVE / RELOCATE EXISTING KEYPAD EQUIPMENT RE: CIVIL DWG'S
14. REMOVE / RELOCATE PORTION OF EXISTING FENCE RE: CIVIL DWG'S
15. REMOVE / RELOCATE EXISTING STOP SIGNAGE RE: CIVIL DWG'S

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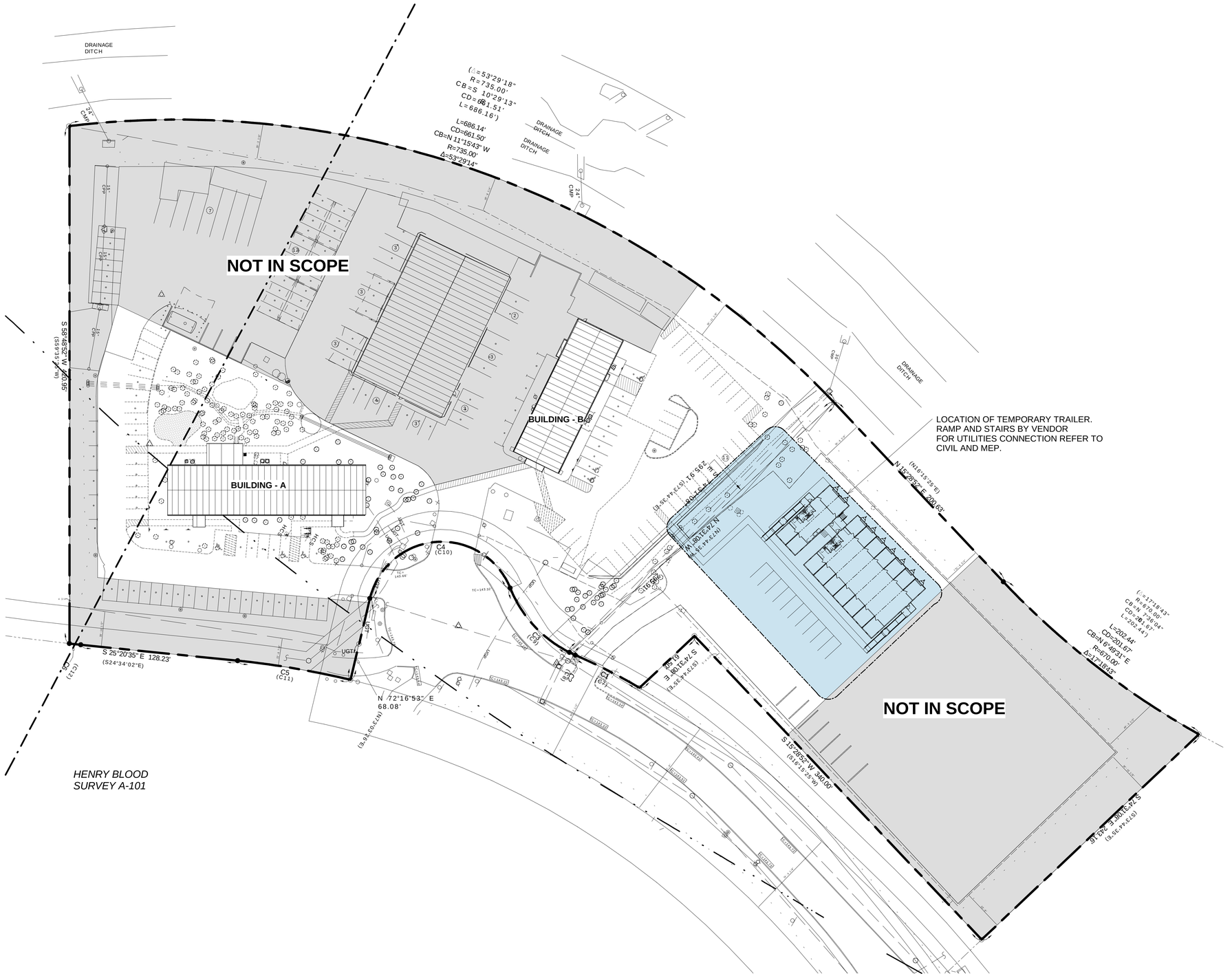
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EXISTING ENLD/DEMO SITE PLAN BLDG - B

A001B

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LOCATION OF TEMPORARY TRAILER. RAMP AND STAIRS BY VENDOR FOR UTILITIES CONNECTION REFER TO CIVIL AND MEP.

GENERAL NOTES

A. THIS SITE IS SUBJECT TO DESIGN GUIDELINES ENFORCED BY THE CITY OF WOODLANDS, TEXAS.

B. PARKING SPACES ARE 9' X 20' UNLESS OVERHANGING LANDSCAPE AS ALLOWED BY CODE, THEN THEY ARE 9' X 16'-6" U.N.O. COMPACT SPACES. RE: CIVIL

C. PLACEMENT OF TEMPORARY TRAILERS SHALL BE BY MODULAR OFFICE VENDOR. CONSTRUCTION OF DECKS AND RAMPS, AND EXTENSION OF TEMPORARY UTILITIES FROM EXISTING POINTS OF CONNECTION ON SITE SHALL BE BY CONTRACTOR. OCCUPANTS AND OPERATIONS OF THE SUBJECT BUILDINGS MUST BE MOVED IN AND FUNCTIONING PRIOR TO COMMENCEMENT OF INTERIOR WORK ON EITHER BUILDING.

D. THE CONTRACTOR SHALL PROPOSE AN ALTERNATE PROJECT SCHEDULE THAT STARTS CONSTRUCTION OF THE BUILDING ADDITION CONCURRENT WITH THE PLACEMENT AND MOVE IN OF THE TEMPORARY FACILITIES.

E. COORDINATE ALL ARCHITECTURAL AND CIVIL SITE PLANS FOR COMPLETE SCOPE OF WORK

SYMBOL LEGEND

TEMPORARY AREA

AREA NOT IN SCOPE

TEMPORARY TRAILERS PLAN
1" = 40'-0"

1

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18758 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

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THE WOODLANDS, TX 77381

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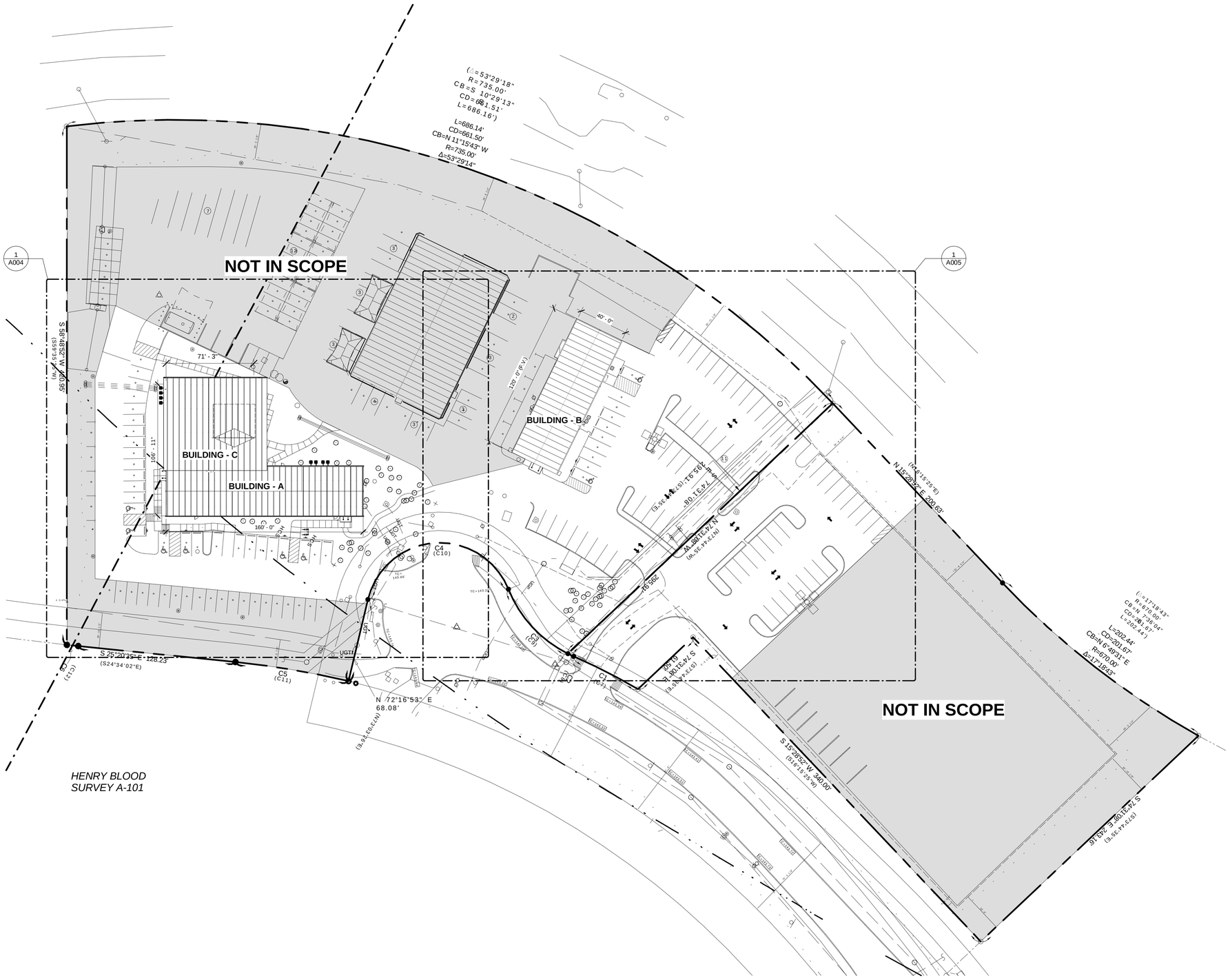
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Project Phase:
PERMIT ISSUE

TEMPORARY TRAILERS PLAN

A002

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SITE PLAN
1" = 40'-0"

1

GENERAL NOTES

A. THIS SITE IS SUBJECT TO DESIGN GUIDELINES ENFORCED BY THE CITY OF WOODLANDS, TEXAS.

B. PARKING SPACES ARE 9' X 20' UNLESS OVERHANGING LANDSCAPE AS ALLOWED BY CODE, THEN THEY ARE 9' X 16'-6" U.N.O. COMPACT SPACES. RE: CIVIL

C. REVIEW CIVIL DRAWINGS FOR COMPLETE SITE PLAN INFORMATION.

D. FOR ENLARGED FLOOR PLANS, RE: 1/A004 & 1/A005.

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERAMY TIPPS 18786 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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THE WOODLANDS, TX 77381

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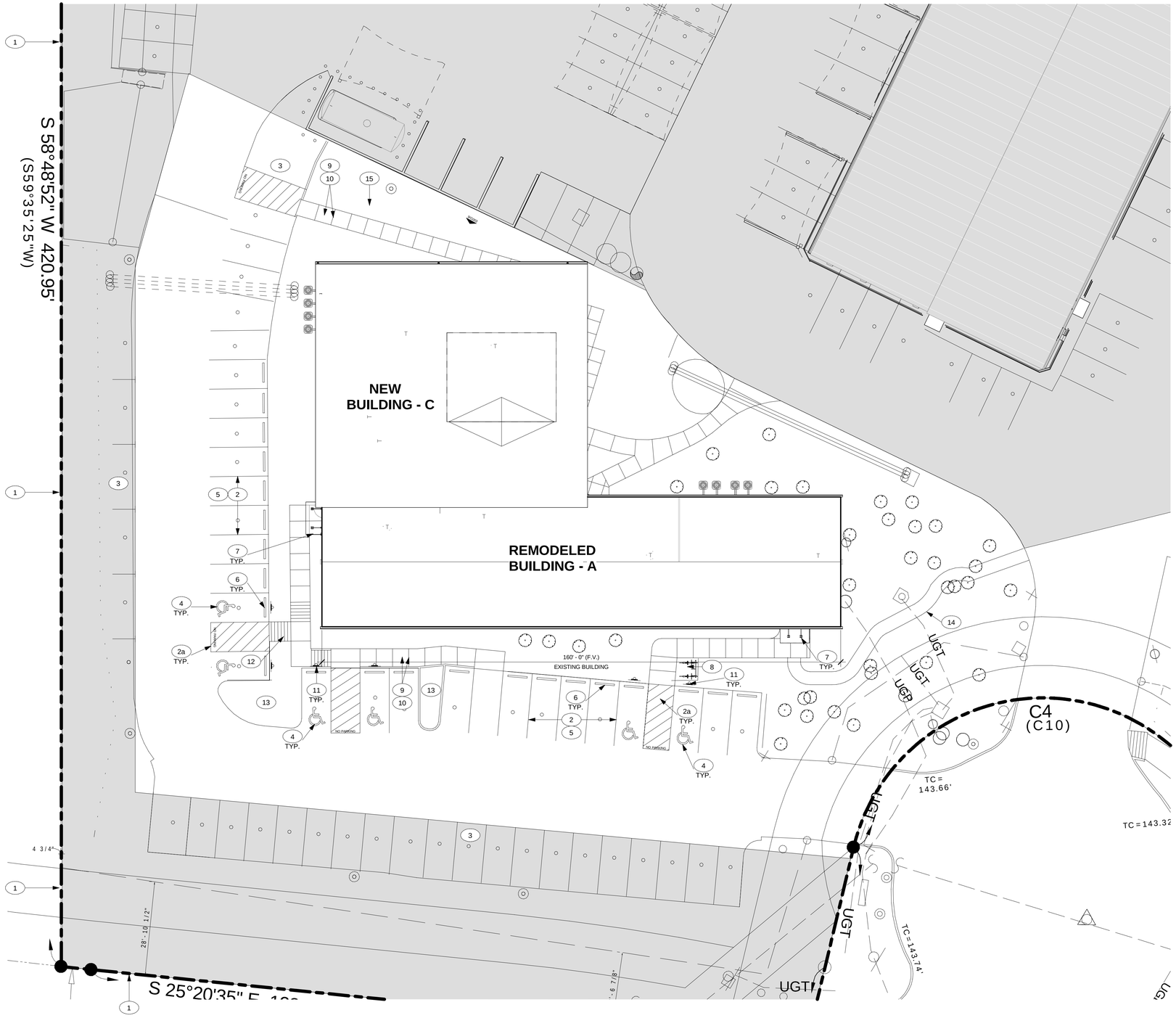
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Project Phase:
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SITE PLAN

A003

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GENERAL NOTES

A. THIS SITE IS SUBJECT TO DESIGN GUIDELINES ENFORCED BY THE CITY OF WOODLANDS, TEXAS.

B. PARKING SPACES ARE 9' X 20' UNLESS OVERHANGING LANDSCAPE AS ALLOWED BY CODE, THEN THEY ARE 9' X 16'-6" U.N.O. COMPACT SPACES. RE: CIVIL

KEY NOTES SITE PLAN (#)

1. PROPERTY LINE.
2. 4" WIDE, WHITE PAINTED PARKING STRIPES, TYP. RE: CIVIL DWG'S
2a. 4" WIDE, WHITE PAINTED AISLE STRIPES (NO PARKING AREA) 2'-0" O.C. AT 45 DEGREES TO PARKING STRIPES. RE: CIVIL DWG'S &
3. EXISTING PARKING SPACES.
3a. EXISTING GRAVEL PARKING SPACES TO REMAIN.
4. ACCESSIBLE PARKING SPACE WITH ACCESSIBLE PARKING GRAPHICS
RE: CIVIL DWG'S &
5. PROPOSED NEW PARKING STALL STRIPPING.
6. NEW WHEEL STOP - 7' WIDE X 6" HIGH CONCRETE. RE: CIVIL DWG'S
7. GC TO PROVIDE ALUMINUM ENTRY CANOPY. BASIS OF DESIGN BY AMERICAN PRODUCTS, INC. (API'S CANTILEVERED, G-GUTTER, EXTRUDED DECK CANOPY SYSTEM) PROVIDE HANGER SUPPORTS AND CONNECTIONS. PRIME AND PAINED WITH A DURABLE POWDER COAT. PAINT TO MATCH (PAINT TBD) FIELD VERIFY DIMENSIONS WITH INSTALLED STEEL DIMENSIONS.
8. EXISTING BIKE RACK TO REMAIN
9. CONCRETE SIDEWALK. RE: CIVIL DWG'S
10. TYPICAL SIDEWALK CONTROL JOINT, RE: G003 (TYPICAL AT 5'-0" O.C., U.N.O.)
11. ACCESSIBLE PARKING SIGN. RE: 4/ AND CIVIL DWG'S
LOCATE 3'-0" FROM FACE OF CURB AND CENTER WITH PARKING STALL
12. PROPOSED ACCESSIBLE RAMP. RE: G003 & CIVIL DWG'S
13. FOR LANDSCAPE INFORMATION RE: CIVIL DWG'S
14. EXISTING GRAVEL WALK PATH
15. CAST IN PLACE CONCRETE RETAINING WALL (BOARD FORMED CONCRETE W/ TEXTURE), RE: CIVIL DWG'S AND G003

SYMBOL EYED SITE

AREA NOT IN SCOPE

"BLDG A" & "BLDG C" ENLARGED SITE PLAN
1/16" = 1'-0"
1

THE WOODLANDS TOWNSHIP

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8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

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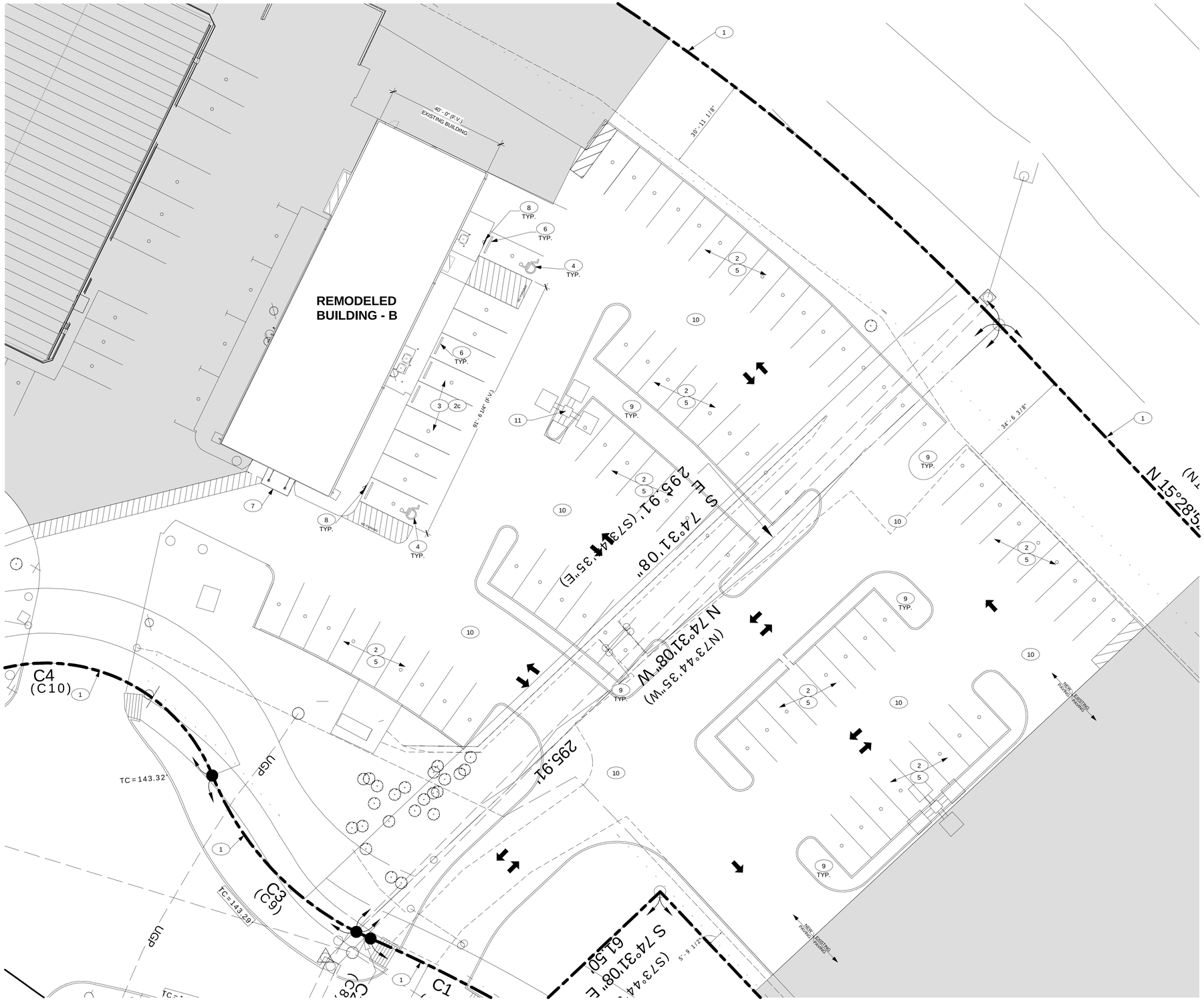
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"BLDG A & C" ENLARGED SITE PLAN

A004

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2. 4" WIDE, WHITE PAINTED PARKING STRIPES, TYP. RE: CIVIL DWG'S
2a. 4" WIDE, WHITE PAINTED AISLE STRIPES (NO PARKING AREA) 2'-0" O.C. AT 45 DEGREES TO PARKING STRIPES. RE: CIVIL DWG'S &
2c. REPAINT 4" WIDE, WHITE PARKING STRIPS, RE: CIVIL DWGS.
3. EXISTING PARKING SPACES.
3a. EXISTING GRAVEL PARKING SPACES TO REMAIN.
4. ACCESSIBLE PARKING SPACE WITH ACCESSIBLE PARKING GRAPHICS
RE: CIVIL DWG'S &
5. PROPOSED NEW PARKING
6. NEW WHEEL STOP - 7' WIDE X 6" HIGH CONCRETE. RE: CIVIL DWG'S
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8. ACCESSIBLE PARKING SIGN. RE: CIVIL DWG'S
9. FOR LANDSCAPE INFORMATION RE: CIVIL DWG'S
10. CONCRETE PARKING. RE: CIVIL DWG'S
11. RELOCATE EXISTING PARKING POLE LIGHT TO NEW LOCATION.

SYMBOL EYED SITE

AREA NOT IN SCOPE

“BLDG B” ENLARGED SITE PLAN 1

1/16" = 1'-0"

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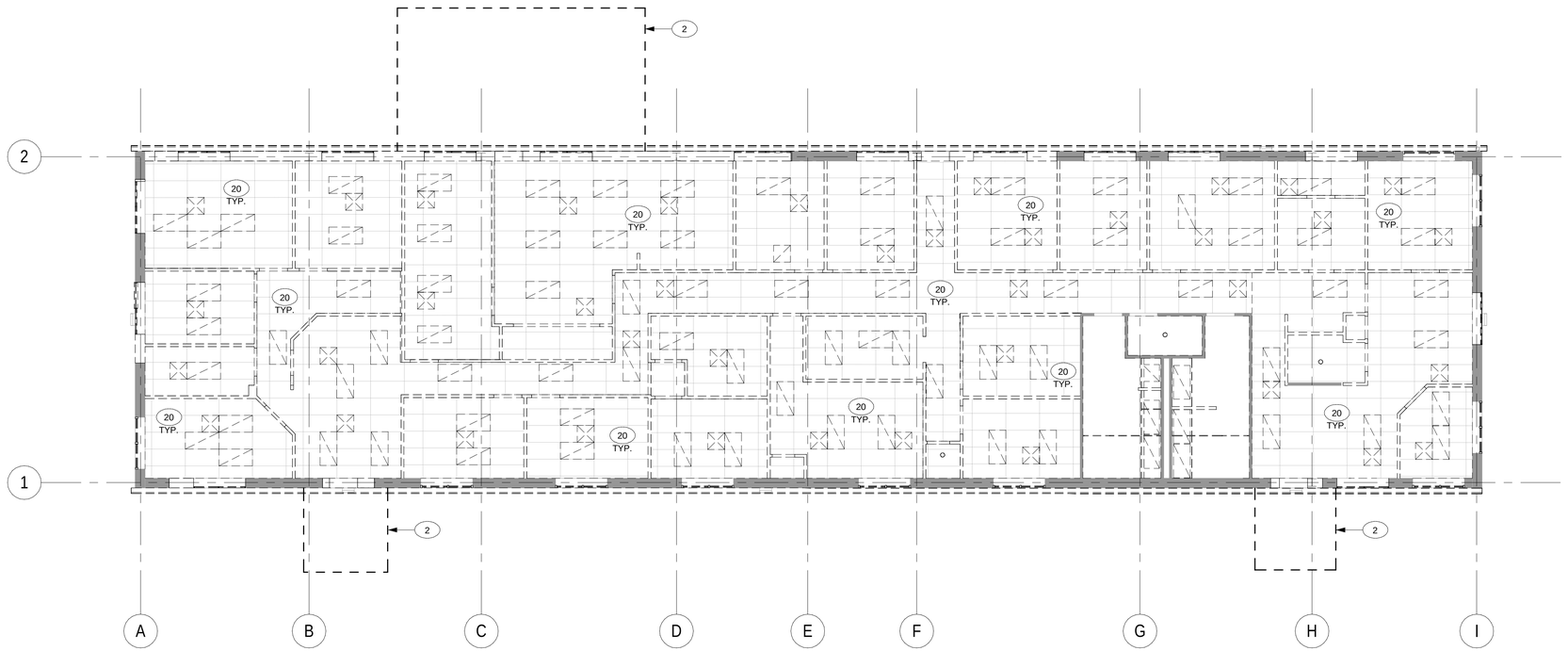
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"BLDG B" ENLARGED SITE PLAN

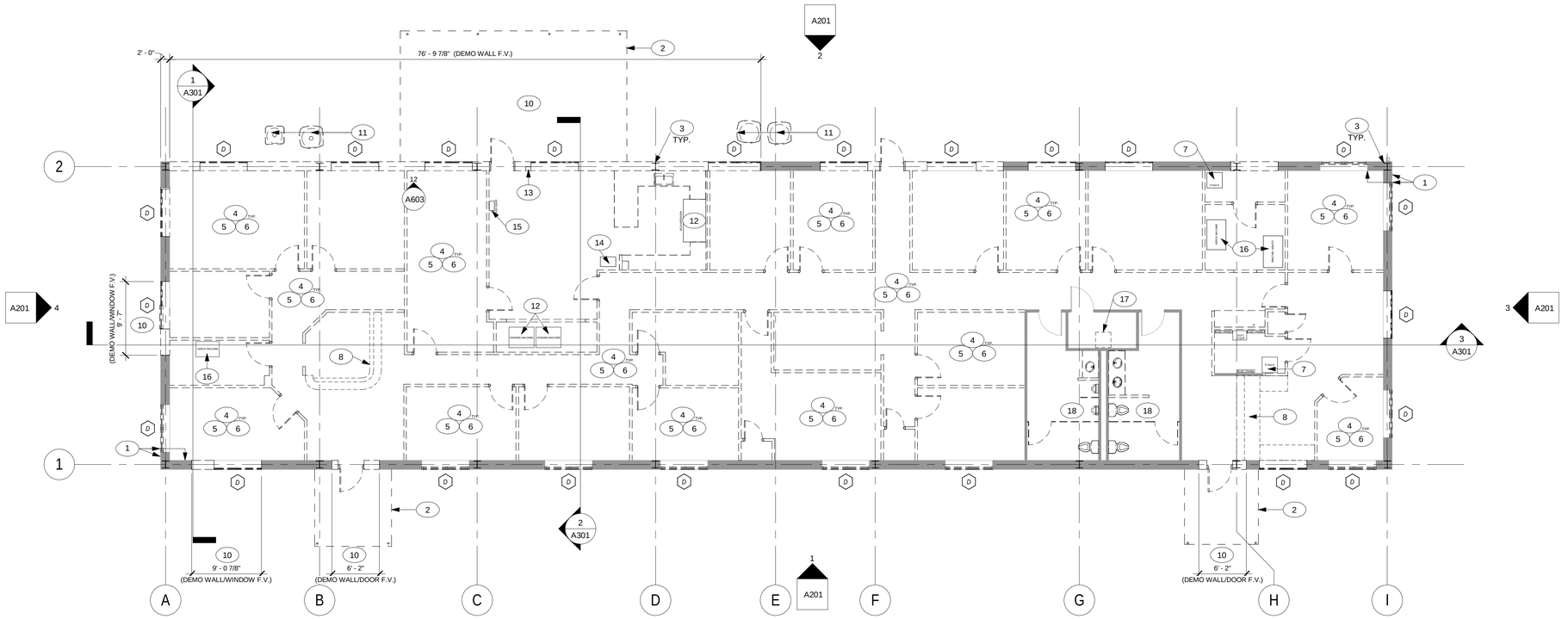
A005

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"BLDG A" DEMO RCP 2

1/8" = 1'-0"



"BLDG A" DEMO FLOOR PLAN 1

1/8" = 1'-0"

GENERAL NOTES

A. DEMOLITION CONTRACTOR SHALL NOT DO ANY CUTTING, AND REMOVAL OF ITEMS, WHETHER SPECIFICALLY INDICATED OR NOT, WHICH WOULD OBVIOUSLY INTERFERE WITH OR BE INCONGRUOUS TO THE PROPOSED CONSTRUCTION OR NEW FINISHES OR NEGATIVELY IMPACT OTHER SPACES OUTSIDE THE PROPOSED LIMITS OF CONSTRUCTION.

B. DEMOLITION CONTRACTOR SHALL PROVIDE AND PLACE ALL SHORING OR STRUCTURAL UNDERPINNING REQUIRED TO SUPPORT EXISTING CONSTRUCTION DURING ALL PHASES OF CONSTRUCTION.

C. DEMOLITION CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO SUITABLY SCREEN DEMOLITION WORK FROM PUBLIC VIEW AND PROTECT THE PUBLIC'S SAFETY, AS WELL AS COMPLY WITH ALL LOCAL CODES AND ORDINANCES FOR REMOVAL OF MATERIAL.

D. ALL ITEMS AND FINISHES WHICH ARE TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION. ANY DAMAGE WHICH OCCURS DURING DEMOLITION SHALL BE CORRECTED BY THE DEMOLITION CONTRACTOR AT THE CONTRACTOR'S EXPENSE, UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR.

E. ALL DEMOLISHED MATERIALS SHALL BE THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE.

F. DEMOLITION CONTRACTOR SHALL PROVIDE ANY BARRICADES, SUPPORTS,RAILINGS, ETC. AS REQUIRED BY O.S.H.A., AS WELL AS TO PROVIDE SAFE WORKING CONDITIONS.

G. ANY ASBESTOS ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED OR ENCAPSULATED BY A LICENSED ASBESTOS CONTRACTOR IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.

H. CONTRACTOR SHOULD USE EXTREME CARE AND CAUTION WHEN REMOVING REQUIRED STRUCTURE OR NON-STRUCTURAL ELEMENTS TO INSURE THAT STRUCTURAL MEMBERS ARE NOT DISTURBED DAMAGED OR ALTERED.

I. CONTRACTOR SHALL CONFORM WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES CONCERNING SITE SAFETY, DUST ABATEMENT AND CONTROL, AND DISPOSAL. REUSE EXISTING DOORS IF THEY CAN BE SALVAGED AND RESTORED TO LIKE NEW CONDITION, REPLACED IF NEEDED, VERIFY WITH OWNER. REPLACE EXISTING DOOR HARDWARE (LATCHSETS) WITH ADA COMPLIANT LEVER-HANDLED LATCHSETS REFER TO DOOR AND HARDWARE SCHEDULE FOR REFERENCE. VERIFY WITH OWNER FOR FINAL HARDWARE SELECTION.

J. INCORPORATE AND INTERPRET ALL INFORMATION AS A WHOLE.

K. PROTECT WALLS TO REMAIN DURING DEMOLITION AND CONSTRUCTION. REPAIR ANY DAMAGE TO "AS NEW" CONDITION.

DEMO KEYED NOTES (#)

1. EXISTING EXTERIOR WALL/WINDOW TO REMAIN. PROTECT WALL STRUCTURE FROM DEMOLITION AND CONSTRUCTION.
2. DEMOLISH EXISTING CANOPY. PATCH, REPAIR, AND/OR REPLACE EXTERIOR FINISH IF DAMAGE DURING DEMOLITION AND CONSTRUCTION.
3. EXISTING COLUMN TO REMAIN. PROTECT ALL EXISTING STRUCTURAL STEEL COLUMNS AS REQUIRED.
4. DEMOLISH EXISTING INTERIOR WALLS.
5. DEMOLISH EXISTING INTERIOR DOORS, DOOR FRAMES TO IT'S ENTIRETY.
6. DEMOLISH EXISTING FLOOR CARPET / FLOOR TILE AND/OR ANY FLOOR FINISH. PREP FLOOR TO RECEIVE NEW FLOOR FINISH.
7. EXISTING IT RACK TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION. IF DAMAGED, ITEM IS TO BE REPLACED WITH MATCHING UNIT.
8. EXISTING MILLWORK TO BE DEMOLISHED/REMOVED.
9. EXISTING STOREFRONT OPENING TO BE REMOVED. PREP TO RECEIVE NEW CONFIGURATION.
10. DEMO EXISTING EXTERIOR FINISH ONLY. EXISTING PEMB COLUMN, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREP AREA FOR NEW PROPOSED DESIGN.
11. EXISTING MECHANICAL SYSTEM TO BE RELOCATED. RE: MECH DWG'S.
12. EXISTING VENDING MACHINE AND REFRIGERATOR TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
13. EXISTING FIRE EXTINGUISHER TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
14. EXISTING WATER/ICE MACHINE TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
15. EXISTING AED EQUIPMENT TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
16. EXISTING OFFICE EQUIPMENT TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
17. DEMOLISH EXISTING MOP SINK.
18. DEMOLISH ALL RESTROOM FINISHES/FIXTURE/PARTITION AND PREP ALL AREA TO ACCEPT ALL NEW FINISHES, FIXTURES, AND ACCESSORIES.
19. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT TO BE DEMO AND/OR RELOCATED.
20. DEMOLISH EXISTING ACOUSTICAL CEILING TILE, LIGHT FIXTURES, MECHANICAL DIFFUSERS, ETC. CAP ANY EXISTING MEP TO BE ABANDONED ABOVE CEILING. RE: MEP DWG'S.

SYMBOL LEGEND PLAN

DEMO ITEMS

EXISTING WALLS TO REMAIN

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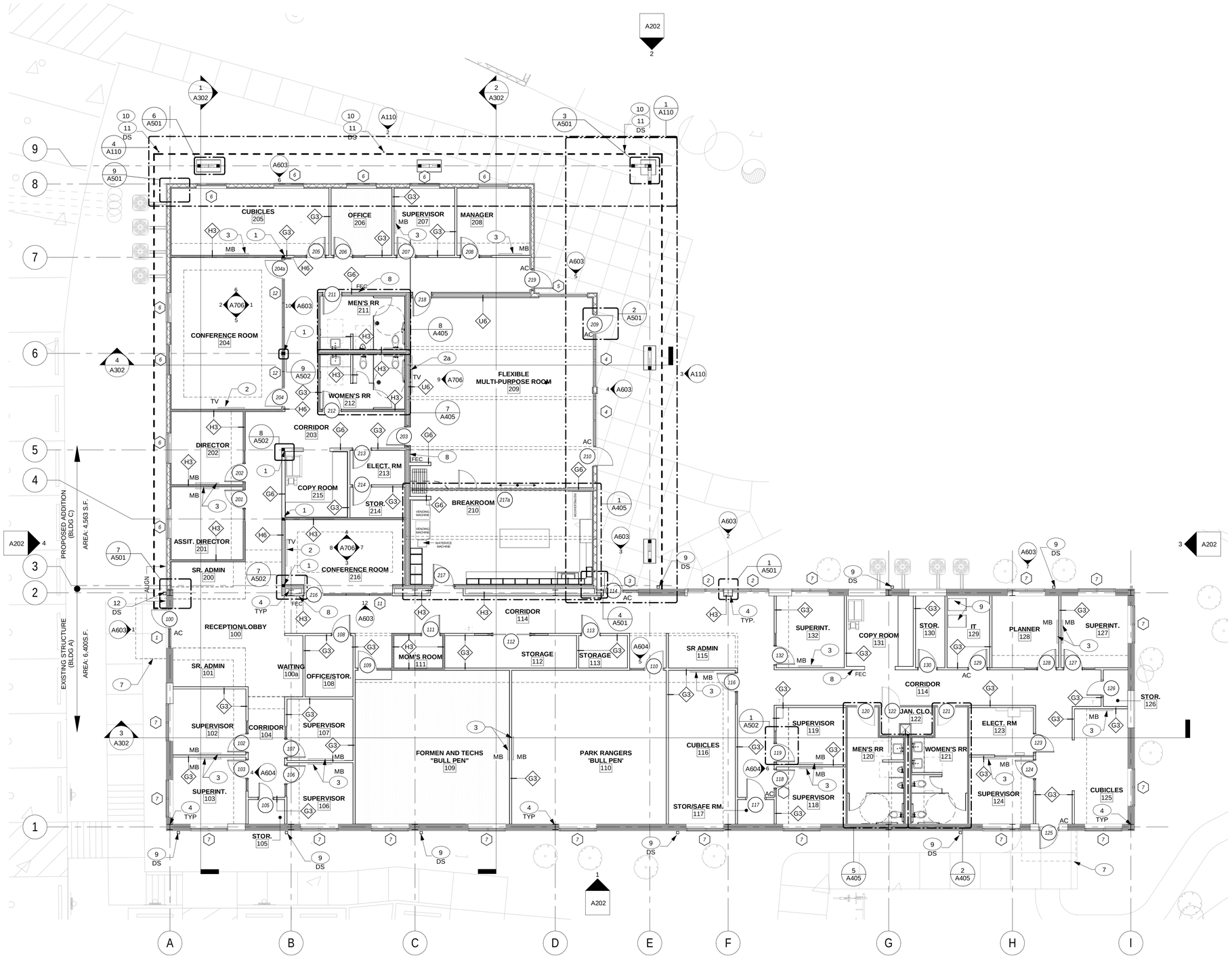
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"BLDG A" DEMO FLOOR PLAN & RCP

A101

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GENERAL NOTES

A. REFER TO A602, FOR DOOR SCHEDULE AND A603 WINDOW/ STOREFRONT ELEVATIONS.

B. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS, AND JAMBS.

C. GENERAL CONTRACTOR IS TO VERIFY ALL DOOR FRAME WIDTHS, COORDINATE WITH WALL TYPE SCHEDULE FOR WALL THICKNESS. REFER TO DOOR SCHEDULE.

D. ALL DOORS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. ALTERNATIVELY AT DOOR AT MAIN ENTRY ONLY, PROVIDE A READILY VISIBLE AND DURABLE SIGN ADJACENT TO OR N THE DOOR STATING THAT "THIS DOOR SHALL REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED" WITH LETTERS ON CONTRASTING BACKGROUND AND MIN. 1" HIGH. SEE DOOR NOTES ON DOOR SCHEDULE.

E. ALL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.

F. SEE STRUCTRAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING, AND GAUGES.

G. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT AND NON-FIRE RETARDANT WOOD.

H. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.

I. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.

J. EXTEND ALL THRU-WALL FLASHING TO 1/4" PAST THE EXTERIOR FACE OF WALL.

K. TAPE SEALANT AT ALL ANCHOR LOCATIONS.

L. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.

M. EXTEND FLASHING VERTICALLY A MINIMUM OF 8" ABOVE THE BASE OF THE FLASHING.

N. INSTALL DOORS @ 6" FROM CORNER WALLS, U.N.O.

O. NOT USED.

P. ALL INTERIOR FINISHES SHALL BE CLASS A, B, OR C FOR FLAME SPREAD AND SMOKE DEVELOPMENT REQUIREMENTS PER NFPA 01, 2020 ED.

Q. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND CONFIRM ALL PLUMBING AND ELECTRICAL INFORMATION.

R. ALL FINISHES AND FINISH MATERIALS, COLORS, OR TEXTURES SHALL BE VERIFIED BY THE ARCHITECT PRIOR TO INSTALLATION, FABRICATION, OR ORDERING.

S. THE GENERAL CONTRACTOR IS TO INCLUDE IN HIS BID THE HIGHEST QUALITY AND GREATEST QUANTITY FOR THE PURPOSE OF RESOLVING ANY CONFLICTS IN THE CONSTRUCTION DOCUMENT WHICH ARE IMPLIED OR UNDEFINED.

T. GENERAL CONTRACTOR TO CAULK ALL PENETRATIONS AT ALL EXTERIOR/INTERIOR, SEE SPECIFICATIONS.

U. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND TAS.

V. GENERAL CONTRACTOR TO COORDINATE AND INSTALL OWNER FURNISHED GRAPHICS.

FLOOR PLAN KEY NOTES (#)

1. 5 1/2" X 5 1/2" WOOD OR STEEL COLUMN.

2. G.C. TO INSTALL EXISTING/RELOCATED T.V. MOUNTED @ 60" AFF. G.C. TO PROVIDE BLOCLING FOR SUPPORT.

2a. G.C. TO PROVIDE AND INSTALL NEW 75" T.V. MOUNTED @ 60" AFF G.C. TO PROVIDE BLOCKING FOR SUPPORT.

3. G.C. TO PROVIDE AND INSTALL MARKERBOARD, PROVIDE BLOCKING SUPPORT.
MANUF: STEELCASE
MODEL: EDGE SERIES WHITEBOARD WITH TRAY
SIZE: 48" H X 72" W

4. EXISTING COLUMNS TO REMAIN, PROTECT AS REQUIRED.

5. FULLY RECESSED FIRE EXTINGUISHER CABINET.
MANUFACTURER: POTTER ROEMER BUENA SERIES FULLY RECESSED (OR EQUAL)
SIZE: 9" x 24 x 5"
CABINET COLOR: WHITE
GLASS DOOR COLOR: SMOKE
LETTERING: WHITE LETTERING VERTICAL

6. G.C. TO INSTALL EXISTING/RELOCATED IT TRACKS. G.C. TO PROVIDE BLOCKING.

7. GC. TO PROVIDE ALUMINUM ENTRY CANOPY BY AMERICAN PRODUCTS, INC. (API CANTILEVERED, G-GUTTER, EXTRUDED DECK CANOPY SYSTEM OR EQUAL) PROVIDE ANGER SUPPORTS AND CONNECTIONS. PRIME AND PAINT WITH A DURABLE POWDER COAT. PAINT TO MATCH STOREFRONT. GC. TO PROVIDE SUPPORT AS REQUIRED FOR INSTALLATION.

8. EXISTING ELECTRICAL PANELS TO REMAIN, RE: ELECTRICAL DRAWINGS.

9. PAINTED EXISTING TO REMAIN ROOF GUTTER AND DOWNSPOUT, MATCH EXISTING WALL PANEL PAINT COLOR. REPLACE ANY DAMAGE SPOUTS OR GUTTERS AND RELOCATE AS REQUIRED.

10. PAINTED NEW GUTTER AND DOWNSPOUT, MATCH EXISTING AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.

11. NEW CHAIN DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.

12. PAINTED 8" X 18" WIDE PREFINISHED SCUPPER WITH CATCHMENT BOX, INCLUDE DOWNSPOUT. MATCH EXISTING PAINT COLOR AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL.

"BLDG A & C" FLOOR PLAN
1/8" = 1'-0"

1

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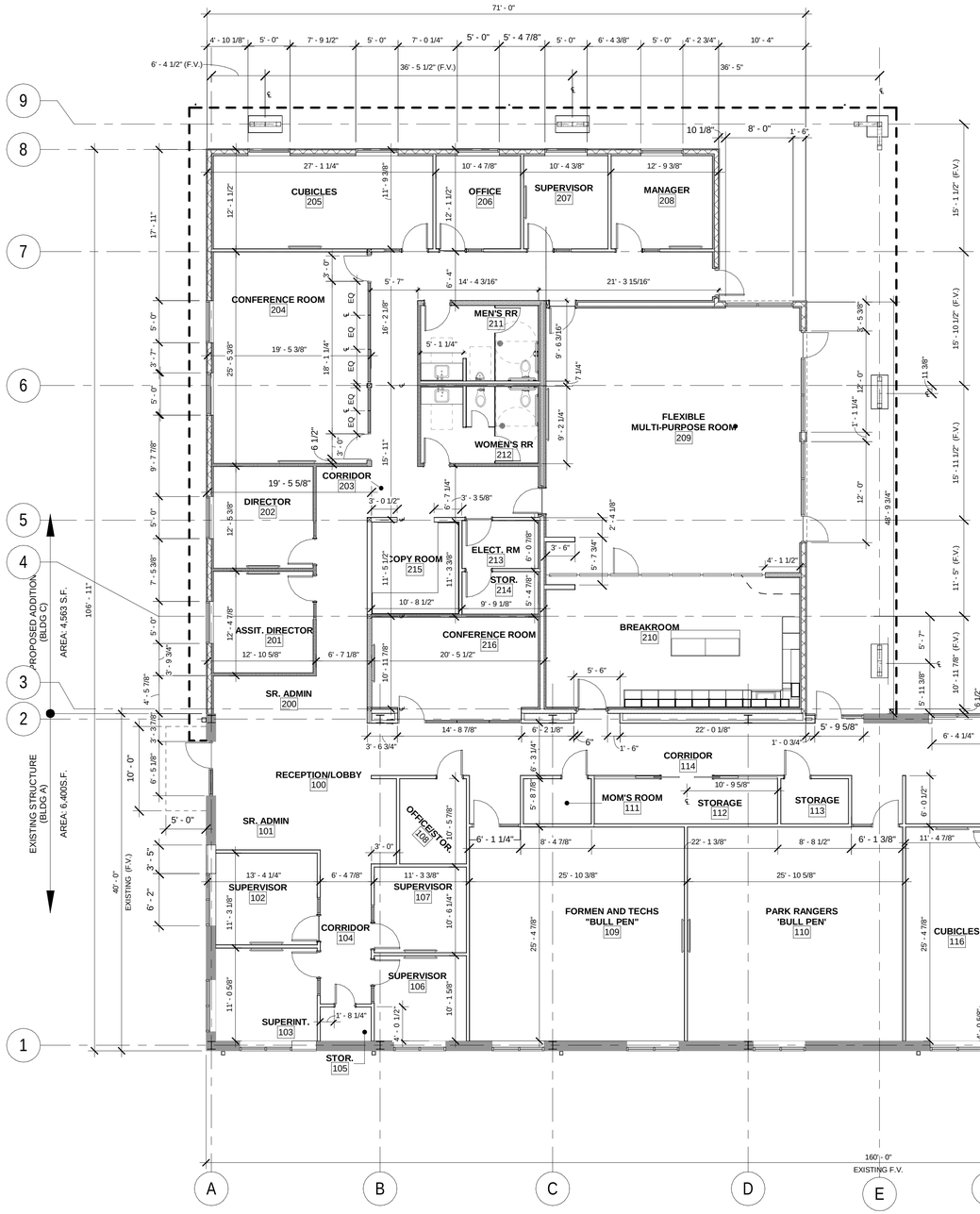
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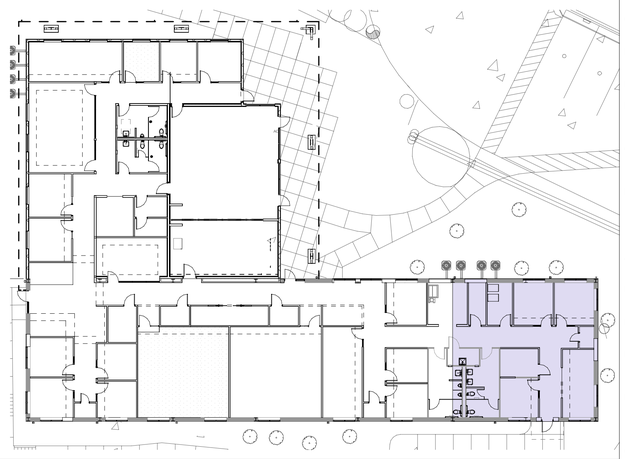
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"BLDG A & C" FLOOR PLAN

A102

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"BLDG A" FP FOUNDATION SETTLEMENT AREA 2

1" = 20'-0"

NOTE: GC TO ANALYZE AND RECOMMEND STEPS TO FOLLOW AND RESTORE FOUNDATION LEVEL AT THIS AREA.

GENERAL NOTES

A. REFER TO A601 FOR DOOR SCHEDULE AND A602 STOREFRONT ELEVATIONS.

B. ALL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.

C. SEE STRUCTRAL SHEETS FOR TYPICAL STUD FRAMING, CONFIGURATIONS, SIZES, SPACING, AND GAUGES.

D. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.).

E. TAPE SEALANT AT ALL ANCHOR LOCATIONS.

F. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.

G. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.

H. EXTEND ALL THRU-WALL FLASHING TO 1/4" PAST THE EXTERIOR FACE OF WALL.

I. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.

J. EXTEND FLASHING VERTICALLY A MINIMUM OF 8" ABOVE THE BASE OF THE FLASHING.

K. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.

L. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS, AND JAMBS.

M. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

N. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

O. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

P. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

Q. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

R. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

S. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

T. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

U. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

"BLDG A & C" DIMENSION FLOOR PLAN 1

1/8" = 1'-0"

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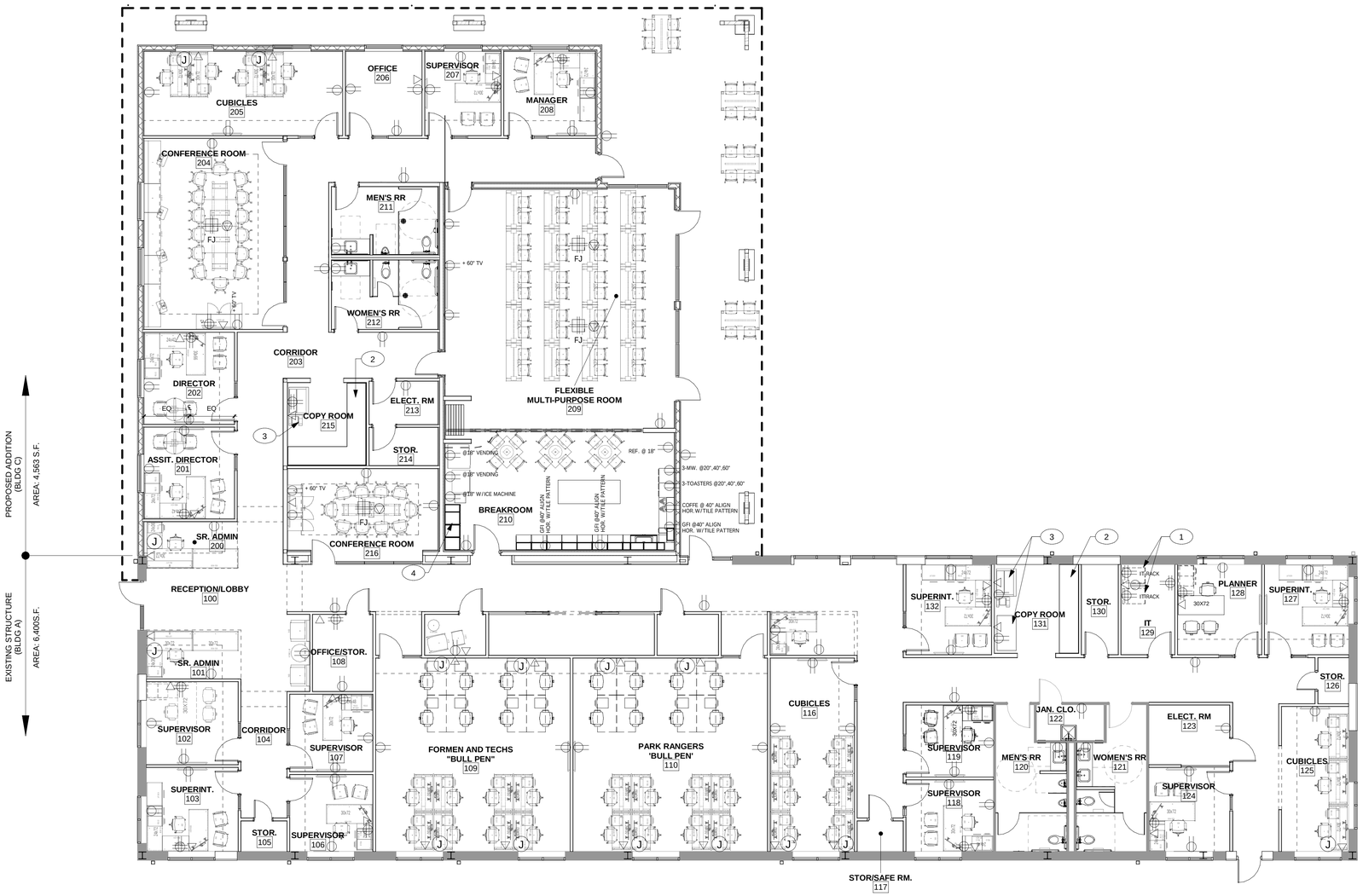
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"BLDG A & C" DIMENSION FLOOR PLAN

A102A

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GENERAL NOTES

A. GENERAL CONTRACTOR WILL RECEIVE A COMBINED PLAN OF FURNITURE AND OUTLETS FOR INSTALLATION PURPOSES AT TIME OF CONSTRUCTION. COORDINATE WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK SPECIALLY IN THE BRAKE ROOM.

B. FURNITURE WILL BY OTHERS.

C. ALL WALL-MOUNTED OUTLETS AND JUNCTION BOXES TO BE INSTALLED AT 16" A.F.F. TO THE BOTTOM OF THE OUTLET U.N.O.

D. REFER TO ELECTRICAL SHEETS FOR MORE INFORMATION.

KEYNOTES (#)

1. OWNER WILL PROVIDE - IT RACKS & CAMERAS EQUIPMENT AND LOCATION, G.C. PROVIDE ALL ELECTRICAL LOW VOLT REQUIREMENTS TO INSTALL, RE: ELECTRICAL DWGS.
2. MILLWORK PROVIDED BY G.C., RE: MILLWORK DETAILS.
3. EXISTING OFFICE EQUIPMENT RELOCATED, RE: SCHEDULE.
4. EXISTING BREAK ROOM EQUIPMENT RELOCATED, RE: SCHEDULE.

POWER DATA/TELEPHONE LEGEND

- DUPLEX OUTLET
- QUADRUPLEX OUTLET
- (J) JUNCTION BOX
- DATA PORT (COMMUNICATION)
- FJ FLOOR JUNCTION BOX

"BLDG A & C" FURNITURE & POWER PLAN
1/8" = 1'-0"

1

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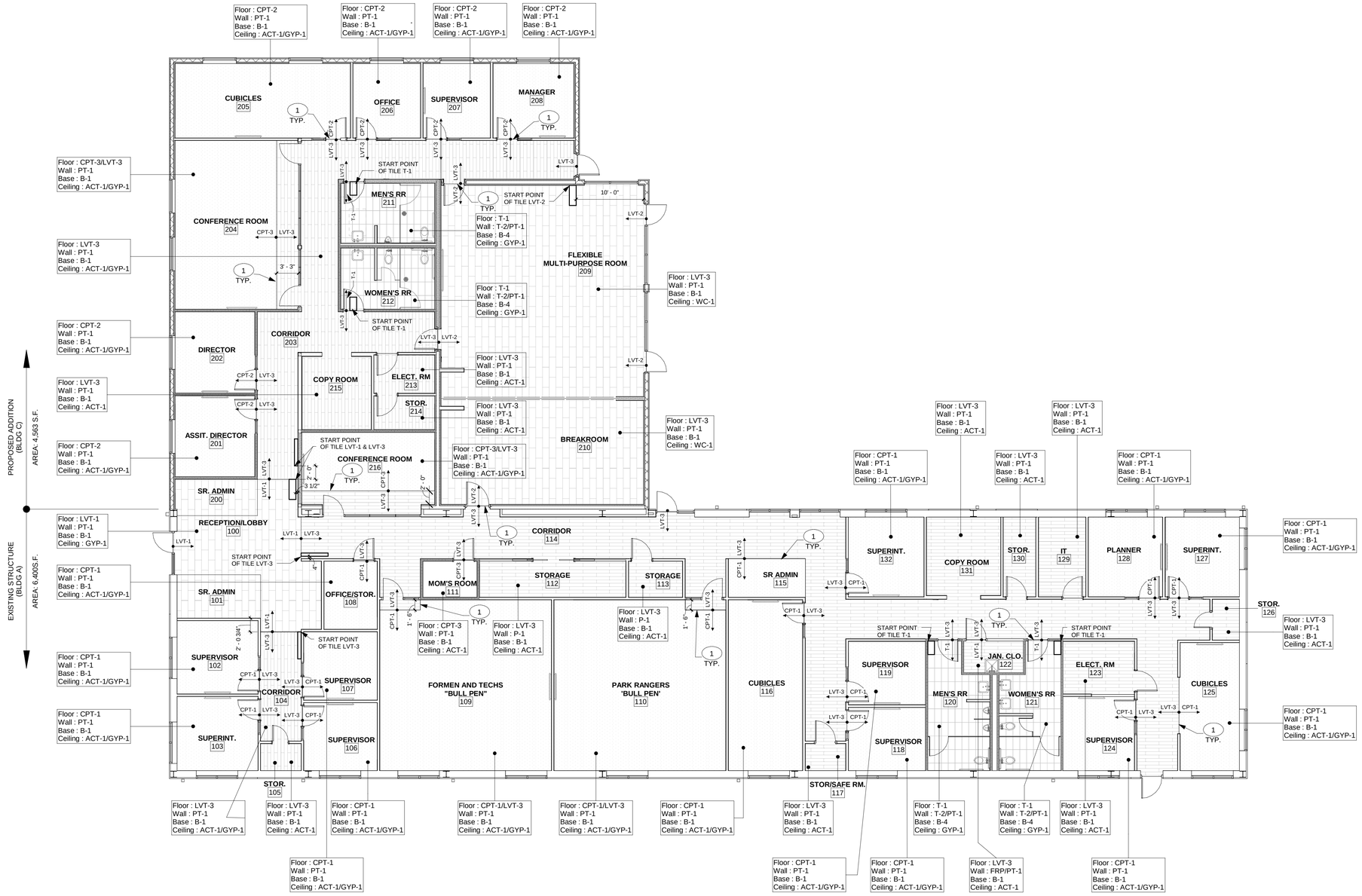
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"BLDG A & C" POWER - FURNITURE PLAN

A102B

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NOTE: REFER TO A601 FOR FINISHES

"BLDG A & C" FINISH PLAN

1/8" = 1'-0"

1

GENERAL NOTES - FINISHES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

D. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

E. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS,ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

G. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

H. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

I. ALL THRESHOLDS SHALL BE NO HIGHER THAN 1/2" AND BEVELED EDGES WITH THE SLOPE BEING NO GREATER THAN 1:2

J. FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENING TO COMPLY WITH CHAPTER 6 IN NPPA 101, 2000 ED

K. ALL FINISHES AND FINISH MATERIALS, COLORS, OR TEXTURES SHALL BE VERIFIED BY ARCHITECT PRIOR TO INSTALLATION, FABRICATION, OR ORDERING.

L. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE. SEE SPECIFICATIONS.

M. ALL GLAZING (GLASS) SUBJECT TO HUMAN IMPACT OR IN A HAZARDOUS LOCATION SHALL BE SAFETY GLAZED (TEMPERED) PER THE REQUIREMENTS OF CHAPTER 24 OF THE INTERNATIONAL BUILDING CODE. SEE DOOR/WINDOW ELEVATIONS.

N. USE TILE EDGE TRIM (SPEC: SCHLUTER SYSTEMS, JOLLY EDGE TRIM, BRUSHED CHROME, 1/4" HEIGHT, PRODUCT CODE A60ACGB TO CONCEAL ALL EXPOSE UNFINISHED TILE EDGE CONDITIONS, AT RESTROOMS WITH PAINTED GYP. BOARD WALLS, RE: FINISH SCHEDULE.

O. G.C. SHALL COORDINATE GROUT COLOR WITH ARCHITECT PRIOR TO ORDERING. 1/16" TILE GROUT JOINTS. PROVIDE SCHEDULED TILE TO CARPET FLOOR TRANSITION, COORDINATE PROFILE DIMENSIONS WITH TILE THICKNESS.. SEAL TILE & GROUT WITH CLEAR SEALER.

P. G.C. TO INSTALL PER MANUFACTURER RECOMMENDATIONS.

Q. G.C. TO COORDINATE FINAL SPECS WITH OWNER ON SITE PRIOR TO ORDERING AND INSTALLING.

R. G.C. TO FIELD VERIFY PAINT COLOR BEFORE PAINTING.

FINISH KEYED NOTES (#)

1. PROVIDE SCHEDULED FLOOR TRANSITION, RE: A601 FOR FINISH SCHEDULE.
2. PAINT EXPOSED COLUMNS, RE: FINISH SCHEDULE FOR PAINT COLOR.
3. FOR PAINTED GYP. BD. FURR DOWN, RE: A601 FINISH SCHEDULES.
4. FOR CEILING TYPE, RE: RCP AND FINISH SCHEDULE,A104, A601.
5. FOR MILLWORK FINISHES & DETAILS, RE: A601, A705.

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"BLDG A & C" FINISH PLAN

A103

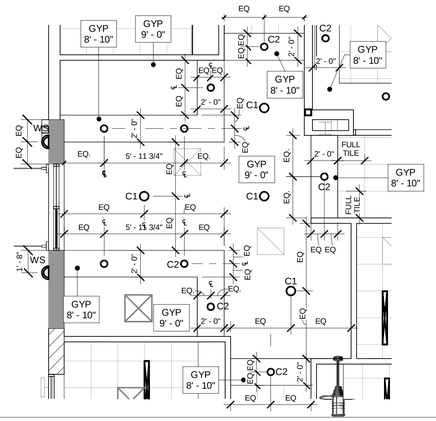
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BLDG A - C RCP ENLARGED RECEPTION AREA

3/16" = 1'-0"

2



GENERAL NOTES - RCP

A. ALL CEILING HEIGHTS REFERENCED ARE ABOVE RELATIVE FINISHED FLOOR ELEVATION

B. CENTER ALL CEILING MOUNTED LIGHT FIXTURES WITHIN GRID AS SHOWN OR CENTERED IN DRYWALL CEILINGS AS SHOWN, CENTER ALL SUSPENDED LIGHT FIXTURES AS SHOWN

C. LOCATED CEILING GRID IN EACH AREA/ROOM AS SHOWN

D. REFER TO FINISH SCHEDULE FOR CEILING FINISHES

E. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE

F. GC SHALL COORDINATE SIZING AND LOCATION OF DUCTS AND SUPPLY & RETURN GRILLES WITH MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT

G. PROVIDE UNISTRUT SUSPENSION SYSTEM AS REQUIRED FOR ALL SUSPENDED ELEMENTS INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES AND SIGNAGE; DOUBLE NUT ALL TOP AND BOTTOM UNISTRUT ANCHORAGES

H. GC TO COORDINATE WITH LOW VOLTAGE CONTRACTOR

I. GC TO INSTALL ALL REQUIRED JUNCTION BOXES, CONDUIT EXTENSIONS IN WALL TO ABOVE CEILING OR ACCESSIBLE LOCATION, ETC, AS REQUIRED

J. STUD WALLS TERMINATE 6" ABOVE CEILINGS UNLESS SCHEDULED OTHERWISE

K. REFER TO ELECTRICAL DRAWINGS FOR ALL EMERGENCY LIGHTING

L. FIRE ALARM DESIGN, PERMIT, AND INSTALLATION ARE BY GC; COVERAGE TO ALL PORTIONS OF THE BUILDING; GC TO COORDINATE WITH ALL OTHER TRADES TO MINIMIZE UTILITY CONFLICTS AND TO ENSURE COMPLIANCE WITH ALL FIRE MARSHALL AND CODE REQUIREMENTS

FIXTURE LEGEND

- 2X2 SQUARE LIGHT
- RECESSED CAN LIGHT
- RECESSED CAN LIGHT
- PENDENT LIGHT
- RECESSED CAN LIGHT
- RECESSED LIGHT LINEAR LED
- CEILING LIGHT LINEAR BOX
- RECESSED STRIP LIGHT
- PENDENT LIGHT
- PENDENT LIGHT
- CIRCLE PENDENT LIGHT
- WALL SCONCE LIGHT
- WALL PACK LIGHT
- X EMERGENCY INTERIOR EXIT SIGN

NOTE: REFER TO A601 FOR FINISHES

"BLDG A & C" RCP

1/8" = 1'-0"

1

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"BLDG A & C" RCP

A104

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GENERAL NOTES

A. REFER TO STRUCTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

B. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWINGS, SUBMITTALS AND STRUCTURAL DRAWINGS.

C. BUILDING SHALL HAVE A CLASS "A" ROOF, RE; SPECS

D. MAINTAIN MINIMUM 1/4" SLOPE THROUGH OUT ROOF AREA.

E. GC SHALL BE RESPONSIBLE FOR COORDINATION OF SIZES AND LOCATIONS OF ROOF PENETRATIONS (INCLUDING BUT NOT LIMITED TO VENT, DUCT, ELECTRICAL, GAS, & CONDENSATE DRAINS.), PLATFORMS, BASES ETC. COORDINATE SIZES OF MECHANICAL PLATFORMS, BASES, ROOF EQUIPMENT PLATFORMS & PENETRATIONS WITH EQUIPMENT BEING SUPPLIED.

F. MAINTAIN ALL ROOF PENETRATIONS 3'-0" MINIMUM FROM FLOW LINES

G. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 5'-0" OF EXTERIOR WALL.

H. COORDINATE, PROVIDE, AND INSTALL ALL EQUIPMENT PLATFORMS.

I. ALL ROOF TOP MECHANICAL EQUIPMENT CURBS TO BE PRE-FABRICATED AND INSULATED. CURBS SHALL BE DESIGNED AND INSTALLED WITH TOP OF CURB SET LEVEL IN ALL DIRECTIONS. PROVIDED AND INSTALLED BY G.C.

J. CURB HEIGHTS SHALL BE BASED UPON THE UNIT CONDENSATION DRAIN REQUIREMENTS, AND SHALL BE A MINIMUM OF 12" ABOVE ROOF.

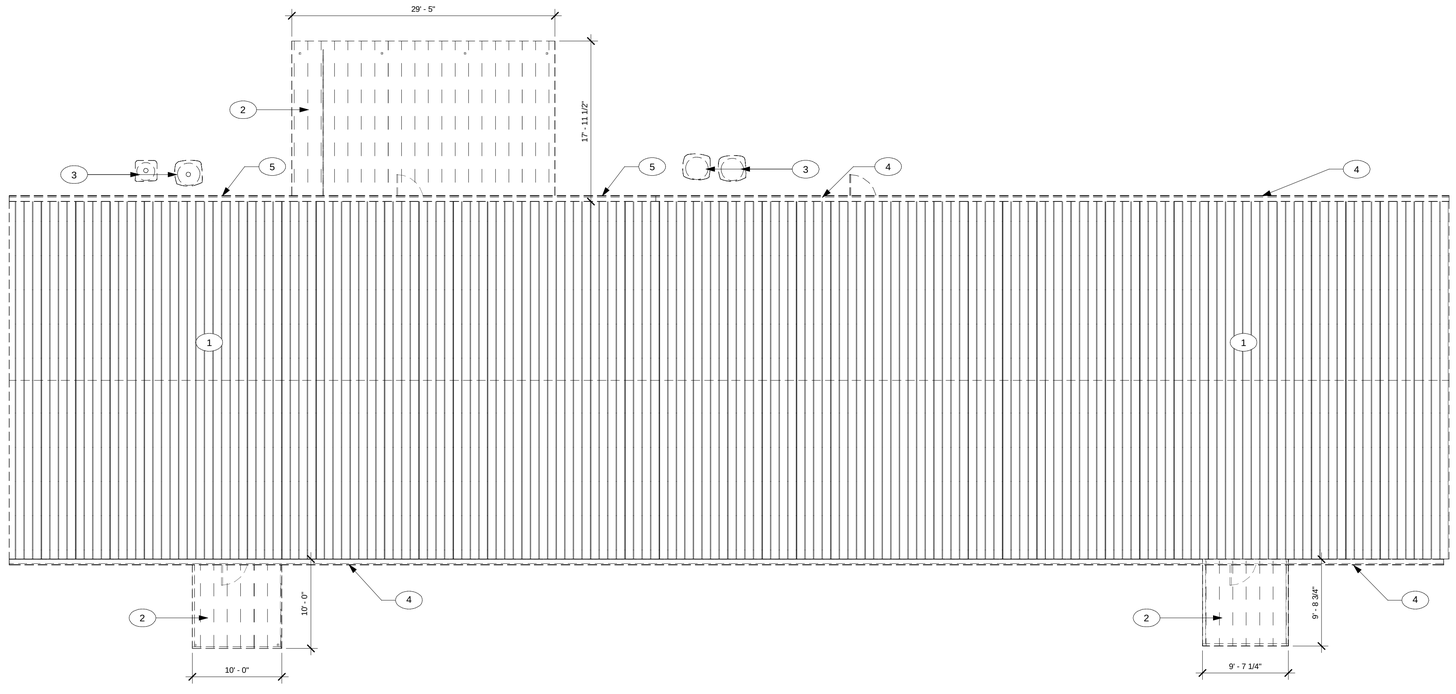
K. SEE MECHANICAL DRAWINGS FOR 1-HR. ROOF CURB REQUIREMENTS AND LOCATIONS.

L. ROOFING CONTRACTOR SHALL FURNISH & INSTALL ALL ROOF FLASHING ASSEMBLIES AS REQUIRED AT ALL ROOF PENETRATION LOCATIONS TO ENSURE WATER TIGHTNESS.

M. UPON COMPLETION OF INSTALLATION OF ALL ROOF CURBS, SUPPORT FRAMING, ROOF HATCH, ROOF AND PARAPET MEMBRANE, FLASHINGS, ETC., G.C. AND ROOF MEMBRANE CONTRACTOR SHALL PERFORM A WATER TEST TO CONFIRM WATER TIGHTNESS.

DEMO KEYED NOTES (#)

1. DEMO EXISTING METAL ROOF EXTERIOR FINISH ONLY. EXISTING PEMB COLUMN, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREP AREA FOR NEW PROPOSED DESIGN.
2. DEMOLISH EXISTING CANOPY. PATCH, REPAIR, AND/OR REPLACE EXTERIOR FINISH IF DAMAGE DURING DEMOLITION AND CONSTRUCTION.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT TO BE DEMO AND/OR RELOCATED.
4. EXISTING GUTTERS AND DOWNSPOUTS TO REMAIN,
5. DEMO EXISTING SELECTED SECTION OF GUTTER, RE: ROOF PLAN.



"BLDG A" DEMO ROOF PLAN
1/8" = 1'-0"

1

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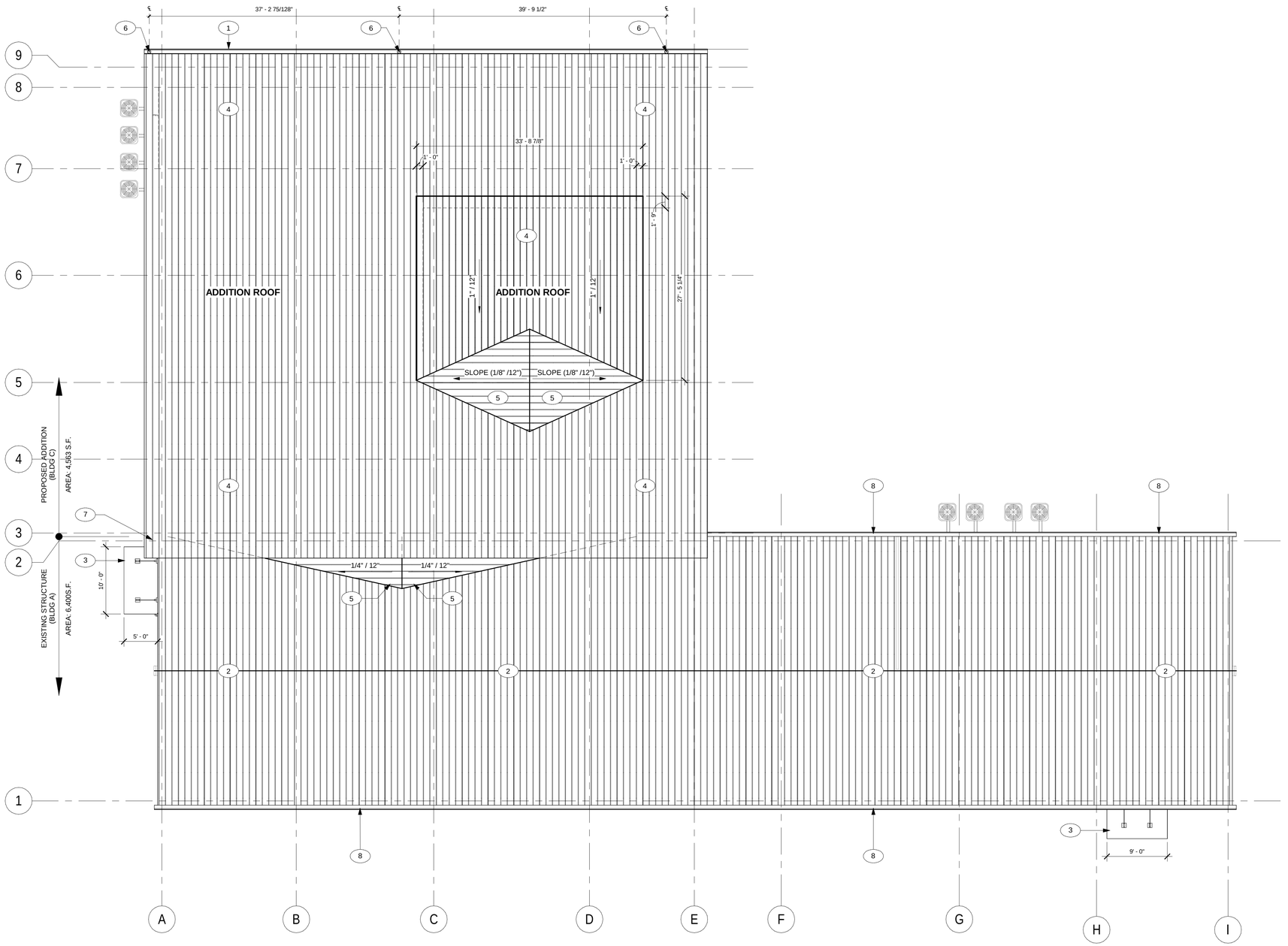
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"BLDG A" DEMO ROOF PLAN

A105

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"BLDG A & C" ROOF PLAN
1/8" = 1'-0"

1

GENERAL NOTES

A. REFER TO STRUCTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

B. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWINGS, SUBMITTALS AND STRUCTURAL DRAWINGS.

C. BUILDING SHALL HAVE A CLASS "A" ROOF, RE; SPECS

D. MAINTAIN MINIMUM 1/4" SLOPE THROUGH OUT ROOF AREA.

E. GC SHALL BE RESPONSIBLE FOR COORDINATION OF SIZES AND LOCATIONS OF ROOF PENETRATIONS (INCLUDING BUT NOT LIMITED TO VENT, DUCT, ELECTRICAL, GAS, & CONDENSATE DRAINS.), PLATFORMS, BASES ETC. COORDINATE SIZES OF MECHANICAL PLATFORMS, BASES, ROOF EQUIPMENT PLATFORMS & PENETRATIONS WITH EQUIPMENT BEING SUPPLIED.

F. MAINTAIN ALL ROOF PENETRATIONS 3'-0" MINIMUM FROM FLOW LINES

G. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 5'-0" OF EXTERIOR WALL.

H. COORDINATE, PROVIDE, AND INSTALL ALL EQUIPMENT PLATFORMS.

I. ALL ROOF TOP MECHANICAL EQUIPMENT CURBS TO BE PRE-FABRICATED AND INSULATED. CURBS SHALL BE DESIGNED AND INSTALLED WITH TOP OF CURB SET LEVEL IN ALL DIRECTIONS. PROVIDED AND INSTALLED BY G.C.

J. CURB HEIGHTS SHALL BE BASED UPON THE UNIT CONDENSATION DRAIN REQUIREMENTS, AND SHALL BE A MINIMUM OF 12" ABOVE ROOF.

K. SEE MECHANICAL DRAWINGS FOR 1-HR. ROOF CURB REQUIREMENTS AND LOCATIONS.

L. ROOFING CONTRACTOR SHALL FURNISH & INSTALL ALL ROOF FLASHING ASSEMBLIES AS REQUIRED AT ALL ROOF PENETRATION LOCATIONS TO ENSURE WATER TIGHTNESS.

M. UPON COMPLETION OF INSTALLATION OF ALL ROOF CURBS, SUPPORT FRAMING, ROOF HATCH, ROOF AND PARAPET MEMBRANE, FLASHINGS, ETC., G.C. AND ROOF MEMBRANE CONTRACTOR SHALL PERFORM A WATER TEST TO CONFIRM WATER TIGHTNESS.

KEYED NOTES = (#)

1. PAINTED NEW GUTTER AND DOWNSPOUT, MATCH EXISTING AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
2. SCHEDULED ROOF PANEL, RE: A601
3. GC TO PROVIDE ALUMINUM ENTRY CANOPY BY AMERICAN PRODUCTS INC. (API CANTILVERED, G-GUTTER, EXTRUDED DECK CANOPY SYSTEM OR EQUAL) PROVIDE ANGER SUPPORTS AND CONNECTIONS. PRIME AND PAINT WITH A DURABLE POWDER COAT PAINT TO MATCH STOREFRONT. G.C. TO PROVIDE SUPPORT AS REQUIRED FOR INSTALLATION.
4. NEW SIPS ROOF PANEL SYSTEM & ROOF FRAMING. ENSURE POSITIVE DRAINAGE. RE: SECTIONS & DETAILS.
5. PROPOSED ROOF CRICKET, RE: A106.
6. NEW CHAIN DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
7. PAINTED 8" X 18" WIDE PREFINISHED SCUPPER WITH CATCHMENT BOX, INCLUDE DOWNSPOUT. MATCH EXISTING AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL.
8. PAINTED EXISTING TO REMAIN ROOF GUTTER AND DOWNSPOUT, MATCH EXISTING WALL PANEL PAINT COLOR. REPLACE ANY DAMAGE SPOUTS OR GUTTERS AND RELOCATE AS REQUIRED.

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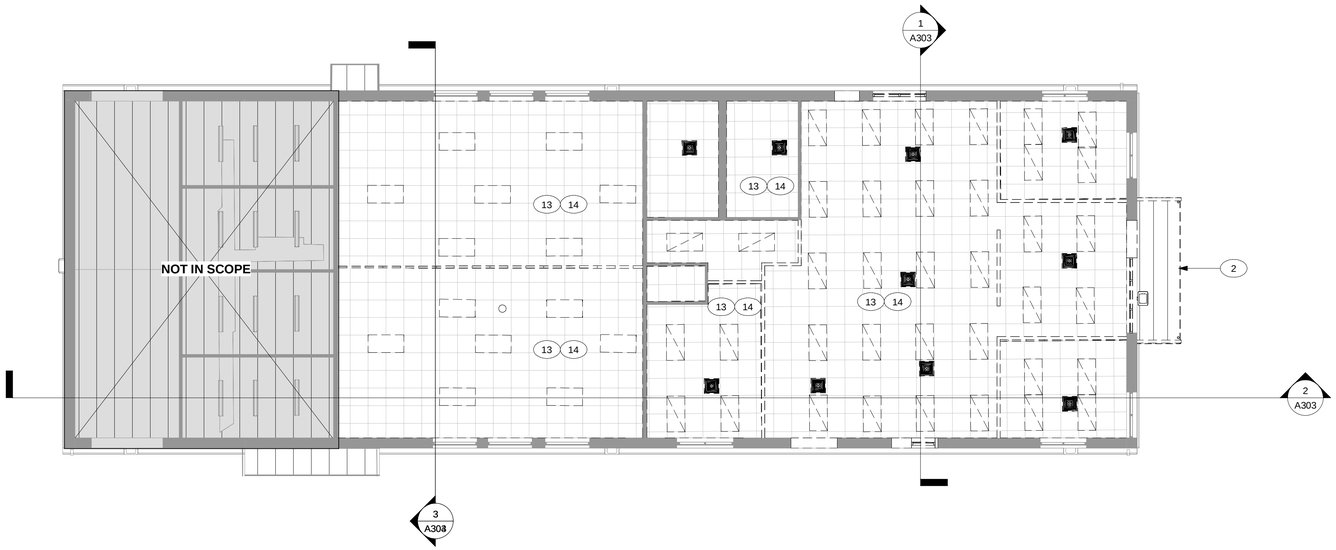
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"BLDG A & C" ROOF PLAN

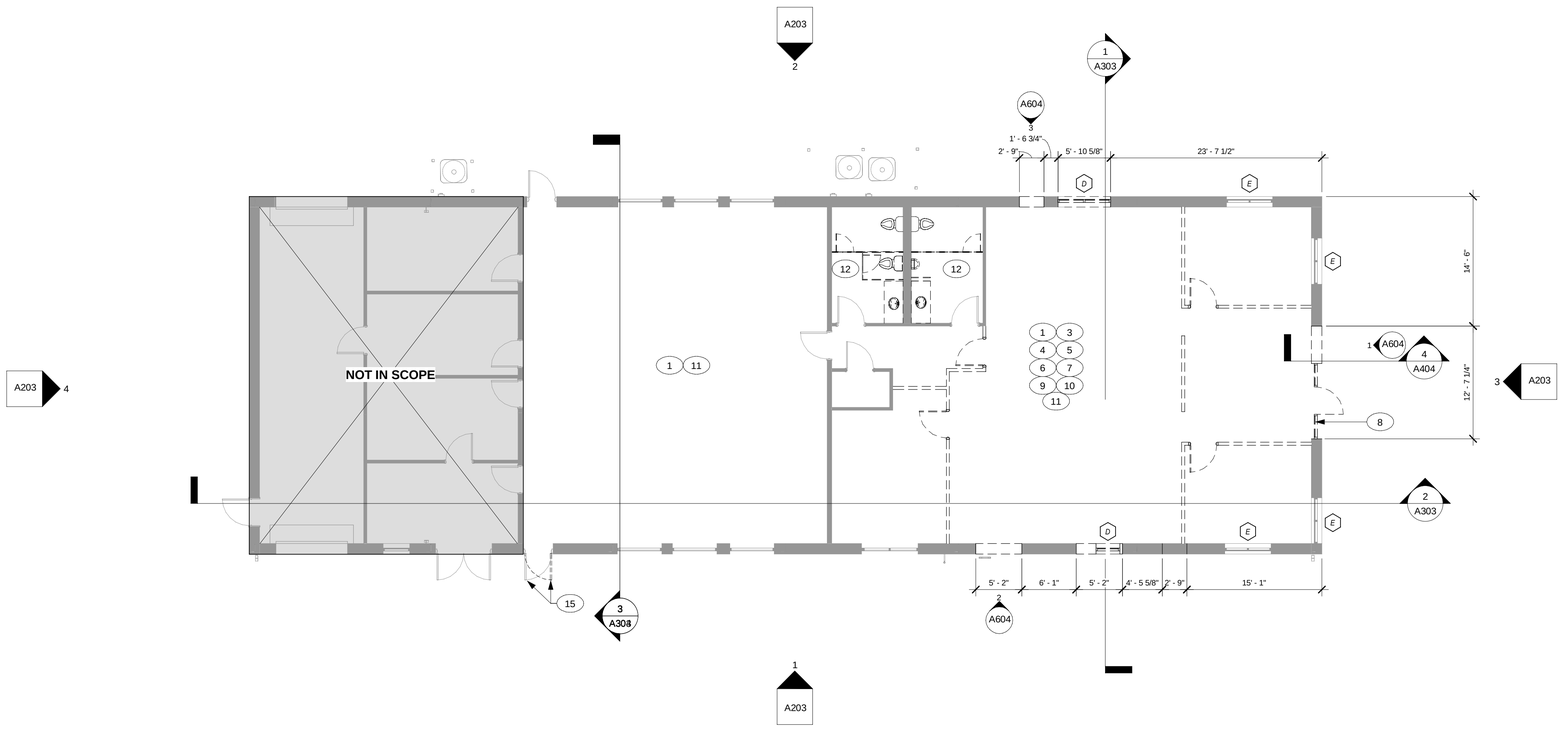
A106

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"BLDG B" DEMO RCP 2

1/8" = 1'-0"



"BLDG B" DEMO FLOOR PLAN 1

1/8" = 1'-0"

GENERAL NOTES

A. DEMOLITION CONTRACTOR SHALL NOT DO ANY CUTTING, AND REMOVAL OF ITEMS, WHETHER SPECIFICALLY INDICATED OR NOT, WHICH WOULD OBVIOUSLY INTERFERE WITH OR BE INCONGRUOUS TO THE PROPOSED CONSTRUCTION OR NEW FINISHES OR NEGATIVELY IMPACT OTHER SPACES OUTSIDE THE PROPOSED LIMITS OF CONSTRUCTION.

B. DEMOLITION CONTRACTOR SHALL PROVIDE AND PLACE ALL SHORING OR STRUCTURAL UNDERPINNING REQUIRED TO SUPPORT EXISTING CONSTRUCTION DURING ALL PHASES OF CONSTRUCTION.

C. DEMOLITION CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO SUITABLY SCREEN DEMOLITION WORK FROM PUBLIC VIEW AND PROTECT THE PUBLIC'S SAFETY, AS WELL AS COMPLY WITH ALL LOCAL CODES AND ORDINANCES FOR REMOVAL OF MATERIAL.

D. ALL ITEMS AND FINISHES WHICH ARE TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION. ANY DAMAGE WHICH OCCURS DURING DEMOLITION SHALL BE CORRECTED BY THE DEMOLITION CONTRACTOR AT THE CONTRACTOR'S EXPENSE, UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR.

E. ALL DEMOLISHED MATERIALS SHALL BE THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE.

F. DEMOLITION CONTRACTOR SHALL PROVIDE ANY BARRICADES, SUPPORTS,RAILINGS, ETC. AS REQUIRED BY O.S.H.A., AS WELL AS TO PROVIDE SAFE WORKING CONDITIONS.

G. ANY ASBESTOS ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED OR ENCAPSULATED BY A LICENSED ASBESTOS CONTRACTOR IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.

H. CONTRACTOR SHOULD USE EXTREME CARE AND CAUTION WHEN REMOVING REQUIRED STRUCTURE OR NON-STRUCTURAL ELEMENTS TO INSURE THAT STRUCTURAL MEMBERS ARE NOT DISTURBED DAMAGED OR ALTERED.

I. CONTRACTOR SHALL CONFORM WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES CONCERNING SITE SAFETY, DUST ABATEMENT AND CONTROL, AND DISPOSAL. REUSE EXISTING DOORS IF THEY CAN BE SALVAGED AND RESTORED TO LIKE NEW CONDITION, REPLACED IF NEEDED, VERIFY WITH OWNER. REPLACE EXISTING DOOR HARDWARE (LATCHSETS) WITH ADA COMPLIANT LEVER-HANDLED LATCHSETS REFER TO DOOR AND HARDWARE SCHEDULE FOR REFERENCE. VERIFY WITH OWNER FOR FINAL HARDWARE SELECTION.

J. INCORPORATE AND INTERPRET ALL INFORMATION AS A WHOLE.

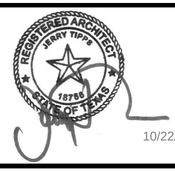
K. PROTECT WALLS TO REMAIN DURING DEMOLITION AND CONSTRUCTION. REPAIR ANY DAMAGE TO "AS NEW" CONDITION.

DEMO KEYED NOTES (#)

1. EXISTING EXTERIOR WALL TO REMAIN. PROTECT WALL STRUCTURE FROM DEMOLITION AND CONSTRUCTION.
2. DEMOLISH EXISTING CANOPY. PATCH, REPAIR, AND/OR REPLACE EXTERIOR FINISH IF DAMAGE DURING DEMOLITION AND CONSTRUCTION.
3. EXISTING COLUMN TO REMAIN. PROTECT ALL EXISTING STRUCTURAL STEEL COLUMNS AS REQUIRED.
4. DEMOLISH EXISTING INTERIOR WALLS.
5. DEMOLISH EXISTING INTERIOR DOORS, DOOR FRAMES TO IT'S ENTIRETY.
6. DEMOLISH EXISTING FLOOR CARPET / FLOOR TILE AND/OR ANY FLOOR FINISH. PREP FLOOR TO RECEIVE NEW FLOOR FINISH.
7. EXISTING MILLWORK TO BE DEMOLISHED/REMOVED.
8. EXISTING STOREFRONT OPENING TO BE REMOVED. PREP TO RECEIVE NEW CONFIGURATION.
9. EXISTING FIRE EXTINGUISHER TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
10. EXISTING AED EQUIPMENT TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
11. EXISTING OFFICE EQUIPMENT TO BE SALVAGED AND REUSED, STORE AND PROTECT FROM DAMAGE AS REQUIRED FOR REINSTALLATION TO NEW LOCATION.
12. DEMOLISH ALL RESTROOM FINISHES/FIXTURE/PARTITION AND PREP ALL AREA TO ACCEPT ALL NEW FINISHES, FIXTURES, AND ACCESSORIES.
13. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT TO BE DEMO AND/OR RELOCATED.
14. DEMOLISH EXISTING ACOUSTICAL CEILING TILE, LIGHT FIXTURES, MECHANICAL DIFFUSERS, ETC. CAP ANY EXISTING MEP TO BE ABANDONED ABOVE CEILING. RE: MEP DWG'S
15. SWITCH THE EXISTING DOOR SWING FROM RIGHT TO LEFT AS SHOWED ON PLAN, REPOSITION HINGES, & PULL/LATCH/LOCK TO THE OTHER SIDE OF FRAME.

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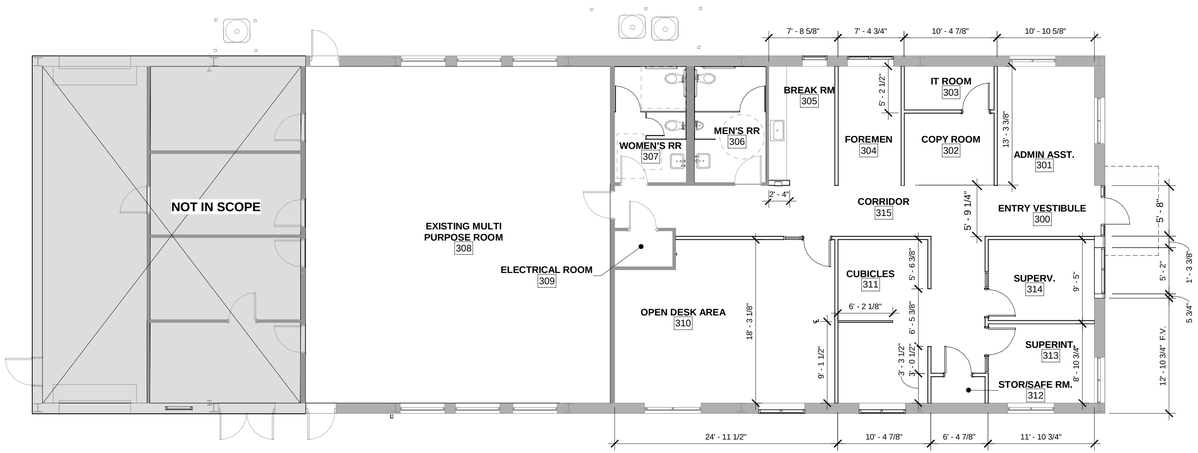
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"BLDG B" DEMO FLOOR PLAN & RCP

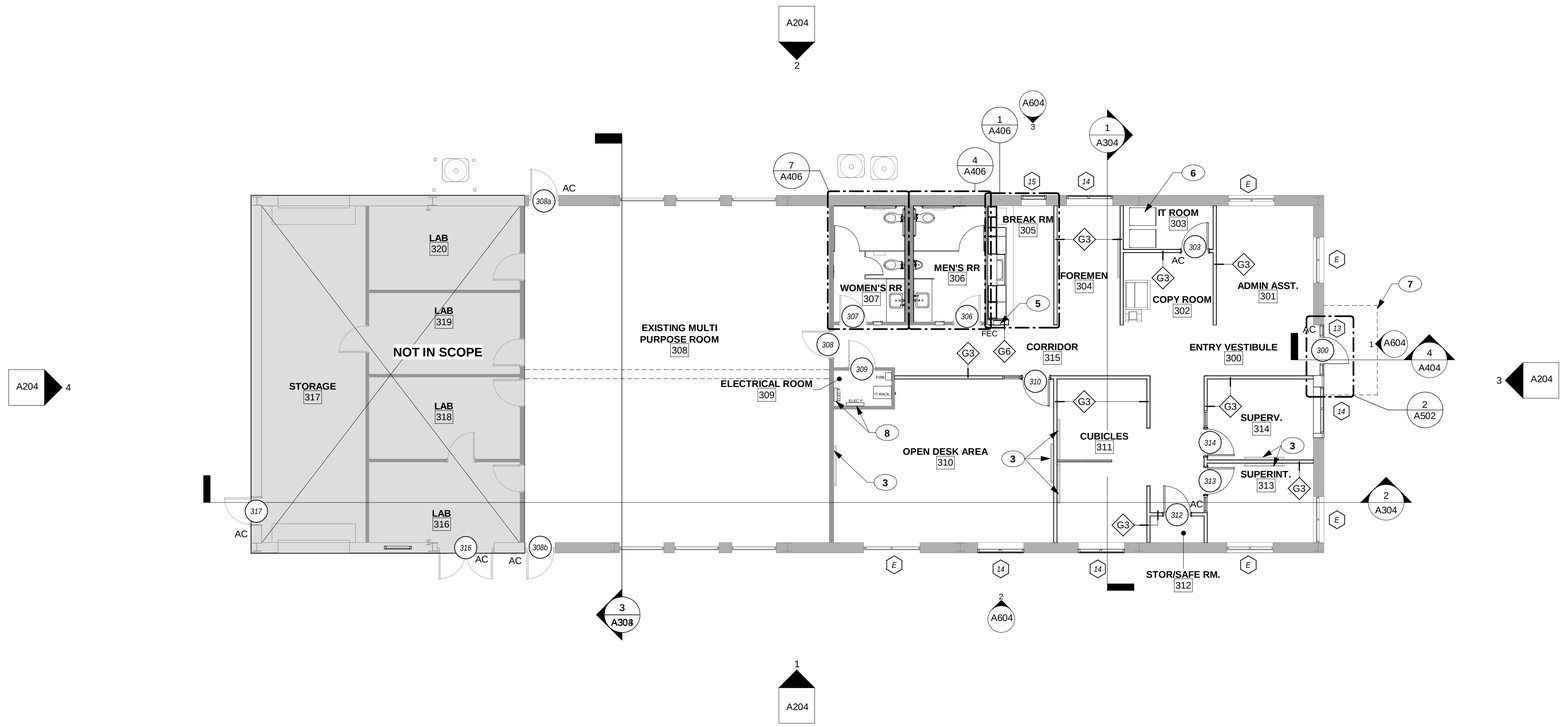
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"BLDG B" DIMENSION CONTROL PLAN 2

1/8" = 1'-0"



"BLDG B" FLOOR PLAN 1

1/8" = 1'-0"

GENERAL NOTES

A. REFER TO A601 FOR DOOR SCHEDULE AND A602 STOREFRONT ELEVATIONS.

B. ALL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.

C. SEE STRUCTRAL SHEETS FOR TYPICAL STUD FRAMING, CONFIGURATIONS, SIZES, SPACING, AND GAUGES.

D. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.).

E. TAPE SEALANT AT ALL ANCHOR LOCATIONS.

F. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.

G. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.

H. EXTEND ALL THRU-WALL FLASHING TO 1/4" PAST THE EXTERIOR FACE OF WALL.

I. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.

J. EXTEND FLASHING VERTICALLY A MINIMUM OF 8" ABOVE THE BASE OF THE FLASHING.

K. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.

L. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS, AND JAMBS.

M. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

N. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

O. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

P. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

Q. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

R. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

S. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

T. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

U. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

FLOOR PLAN KEY NOTES (#)

1. 5 1/2" X 5 1/2" WOOD OR STEEL COLUMN.
2. G.C. TO INSTALL EXISTING/RELOCATED T.V. MOUNTED @ 60" AFF. G.C. TO PROVIDE BLOCLING FOR SUPPORT.
2a. G.C. TO PROVIDE AND INSTALL NEW 75" T.V. MOUNTED @ 60" AFF G.C. TO PROVIDE BLOCKING FOR SUPPORT.
3. G.C. TO PROVIDE AND INSTALL MARKERBOARD, PROVIDE BLOCKING SUPPORT.
   MANUF: STEELCASE
   MODEL: EDGE SERIES WHITEBOARD WITH TRAY
   SIZE: 48" H X 72" W
4. EXISTING COLUMNS TO REMAIN, PROTECT AS REQUIRED.
5. FULLY RECESSED FIRE EXTINGUISHER CABINET.
   MANUFACTURER: POTTER ROEMER BUENA SERIES FULLY RECESSED (OR EQUAL)
   SIZE: 9" x 24 x 5"
   CABINET COLOR: WHITE
   GLASS DOOR COLOR: SMOKE
   LETTERING: WHITE LETTERING VERTICAL
6. G.C. TO INSTALL EXISTING/RELOCATED IT TRACKS. G.C. TO PROVIDE BLOCKING.
7. GC. TO PROVIDE ALUMINUM ENTRY CANOPY BY AMERICAN PRODUCTS, INC. (API CANTILEVERED, G-GUTTER, EXTRUDED DECK CANOPY SYSTEM OR EQUAL) PROVIDE ANGER SUPPORTS AND CONNECTIONS. PRIME AND PAINT WITH A DURABLE POWDER COAT. PAINT TO MATCH STOREFRONT. GC. TO PROVIDE SUPPORT AS REQUIRED FOR INSTALLATION.
8. EXISTING ELECTRICAL PANELS TO REMAIN, RE: ELECTRICAL DRAWINGS.
9. PAINTED EXISTING TO REMAIN ROOF GUTTER AND DOWNSPOUT, MATCH EXISTING WALL PANEL PAINT COLOR. REPLACE ANY DAMAGE SPOUTS OR GUTTERS AND RELOCATE AS REQUIRED.
10. PAINTED NEW GUTTER AND DOWNSPOUT, MATCH EXISTING AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
11. NEW CHAIN DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
12. PAINTED 8" X 18" WIDE PREFINISHED SCUPPER WITH CATCHMENT BOX, INCLUDE DOWNSPOUT. MATCH EXISTING PAINT COLOR AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL.

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“BLDG B” FLOOR PLAN & DIMENSION FLOOR PLAN

A107A

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GENERAL NOTES

A. GENERAL CONTRACTOR WILL RECEIVE A COMBINED PLAN OF FURNITURE AND OUTLETS FOR INSTALLATION PURPOSES AT TIME OF CONSTRUCTION. COORDINATE WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK SPECIALLY IN THE BRAKE ROOM.

B. FURNITURE WILL BY OTHERS.

C. ALL WALL-MOUNTED OUTLETS AND JUNCTION BOXES TO BE INSTALLED AT 16" A.F.F. TO THE BOTTOM OF THE OUTLET U.N.O.

D. REFER TO ELECTRICAL SHEETS FOR MORE INFORMATION.

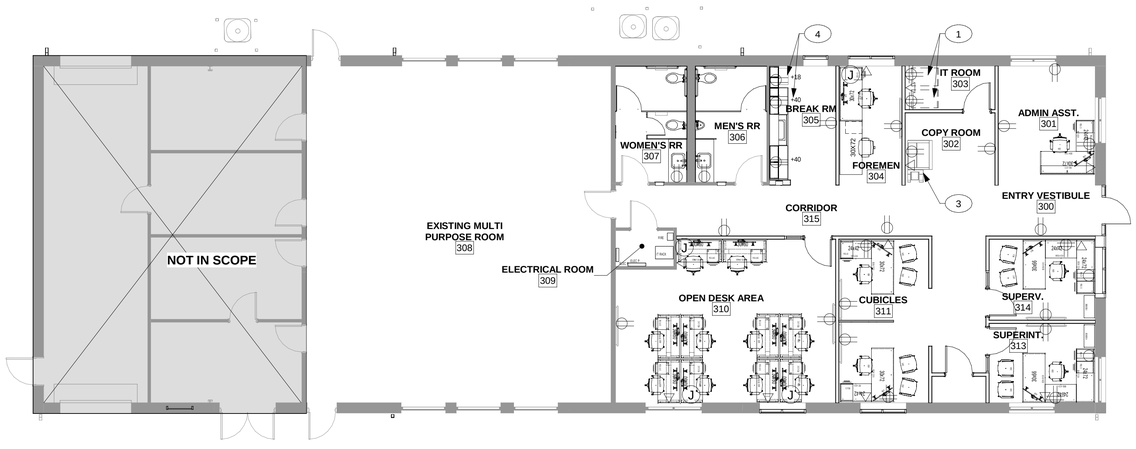
KEYNOTES

(#)

1. OWNER WILL PROVIDE - IT RACKS & CAMERAS EQUIPMENT AND LOCATION, G.C. PROVIDE ALL ELECTRICAL LOW VOLT REQUIREMENTS TO INSTALL, RE: ELECTRICAL DWGS.
2. MILLWORK PROVIDED BY G.C., RE: MILLWORK DETAILS.
3. EXISTING OFFICE EQUIPMENT RELOCATED.
4. EXISTING BREAK ROOM EQUIPMENT RELOCATED.

POWER DATA/TELEPHONE LEGEND

- DUPLEX OUTLET
- QUADRUPLEX OUTLET
- J — JUNCTION BOX
- DATA PORT (COMMUNICATION)
- FJ — FLOOR JUNCTION BOX



"BLDG B" FURNITURE & POWER PLAN

1/8" = 1'-0"

1

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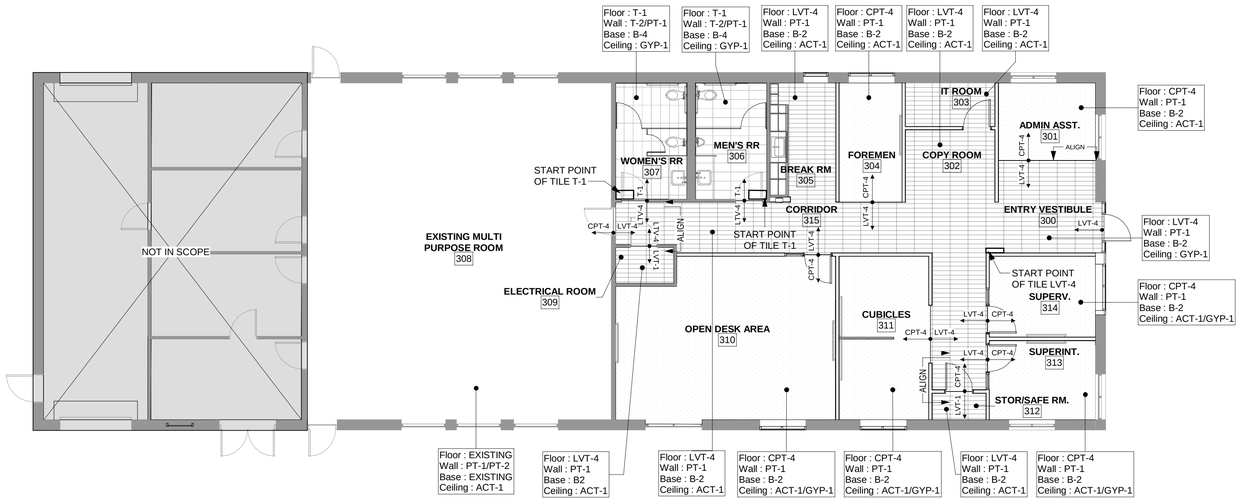
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"BLDG B" FURNITURE & POWER PLAN

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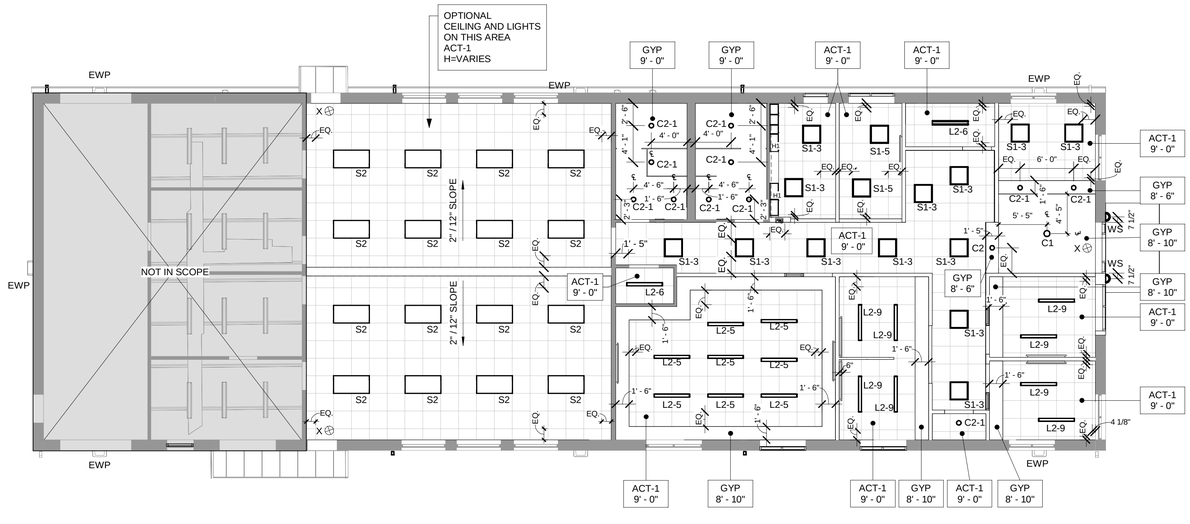
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NOTE: REFER TO A601 FOR FINISHES

"BLDG B" FINISH FLOOR PLAN 2

1/8" = 1'-0"



LIGHT FIXTURE LEGEND

- 2X2 SQUARE LIGHT
- 2X4 RECTANGULAR LIGHT
- RECESSED CAN LIGHT
- RECESSED RECTANGULAR LIGHT
- RECESSED STRIP LIGHT
- WALL PACK LIGHT
- WALL SCONCE
- X EMERGENCY INTERIOR EXIT SIGN

"BLDG B" RCP 1

1/8" = 1'-0"

GENERAL NOTES - FINISHES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

D. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

E. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS,ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

G. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

H. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

I. ALL THRESHOLDS SHALL BE NO HIGHER THAN 1/2" AND BEVELED EDGES WITH THE SLOPE BEING NO GREATER THAN 1:2

J. FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENING TO COMPLY WITH CHAPTER 6 IN NPPA 101, 2000 ED

K. ALL FINISHES AND FINISH MATERIALS, COLORS, OR TEXTURES SHALL BE VERIFIED BY ARCHITECT PRIOR TO INSTALLATION, FABRICATION, OR ORDERING.

L. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE. SEE SPECIFICATIONS.

M. ALL GLAZING (GLASS) SUBJECT TO HUMAN IMPACT OR IN A HAZARDOUS LOCATION SHALL BE SAFETY GLAZED (TEMPERED) PER THE REQUIREMENTS OF CHAPTER 24 OF THE INTERNATIONAL BUILDING CODE. SEE DOOR/WINDOW ELEVATIONS.

N. USE TILE EDGE TRIM (SPEC: SCHLUTER SYSTEMS, JOLLY EDGE TRIM, BRUSHED CHROME, 1/4" HEIGHT, PRODUCT CODE A60ACGB TO CONCEAL ALL EXPOSE UNFINISHED TILE EDGE CONDITIONS, AT RESTROOMS WITH PAINTED GYP. BOARD WALLS, RE: FINISH SCHEDULE.

O. G.C. SHALL COORDINATE GROUT COLOR WITH ARCHITECT PRIOR TO ORDERING. 1/16" TILE GROUT JOINTS. PROVIDE SCHEDULED TILE TO CARPET FLOOR TRANSITION, COORDINATE PROFILE DIMENSIONS WITH TILE THICKNESS.. SEAL TILE & GROUT WITH CLEAR SEALER.

P. G.C. TO INSTALL PER MANUFACTURER RECOMMENDATIONS.

Q. G.C. TO COORDINATE FINAL SPECS WITH OWNER ON SITE PRIOR TO ORDERING AND INSTALLING.

R. G.C. TO FIELD VERIFY PAINT COLOR BEFORE PAINTING.

FINISH KEYED NOTES

1. PROVIDE SCHEDULED FLOOR TRANSITION, RE: A601 FOR FINISH SCHEDULE.
2. PAINT EXPOSED COLUMNS, RE: FINISH SCHEDULE FOR PAINT COLOR.
3. FOR PAINTED GYP. BD. FURR DOWN, RE: A601 FINISH SCHEDULES.
4. FOR CEILING TYPE, RE: RCP AND FINISH SCHEDULE,A104, A601.
5. FOR MILLWORK FINISHES & DETAILS, RE: A601, A705.

GENERAL NOTES - RCP

A. ALL CEILING HEIGHTS REFERENCED ARE ABOVE RELATIVE FINISHED FLOOR ELEVATION

B. CENTER ALL CEILING MOUNTED LIGHT FIXTURES WITHIN GRID AS SHOWN OR CENTERED IN DRYWALL CEILINGS AS SHOWN, CENTER ALL SUSPENDED LIGHT FIXTURES AS SHOWN

C. LOCATED CEILING GRID IN EACH AREA/ROOM AS SHOWN

D. REFER TO FINISH SCHEDULE FOR CEILING FINISHES

E. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE

F. GC SHALL COORDINATE SIZING AND LOCATION OF DUCTS AND SUPPLY & RETURN GRILLES WITH MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT

G. PROVIDE UNISTRUT SUSPENSION SYSTEM AS REQUIRED FOR ALL SUSPENDED ELEMENTS INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES AND SIGNAGE; DOUBLE NUT ALL TOP AND BOTTOM UNISTRUT ANCHORAGES

H. GC TO COORDINATE WITH LOW VOLTAGE CONTRACTOR

I. GC TO INSTALL ALL REQUIRED JUNCTION BOXES, CONDUIT EXTENSIONS IN WALL TO ABOVE CEILING OR ACCESSIBLE LOCATION, ETC, AS REQUIRED

J. STUD WALLS TERMINATE 6" ABOVE CEILINGS UNLESS SCHEDULED OTHERWISE

K. REFER TO ELECTRICAL DRAWINGS FOR ALL EMERGENCY LIGHTING

L. FIRE ALARM DESIGN, PERMIT, AND INSTALLATION ARE BY GC; COVERAGE TO ALL PORTIONS OF THE BUILDING; GC TO COORDINATE WITH ALL OTHER TRADES TO MINIMIZE UTILITY CONFLICTS AND TO ENSURE COMPLIANCE WITH ALL FIRE MARSHALL AND CODE REQUIREMENTS

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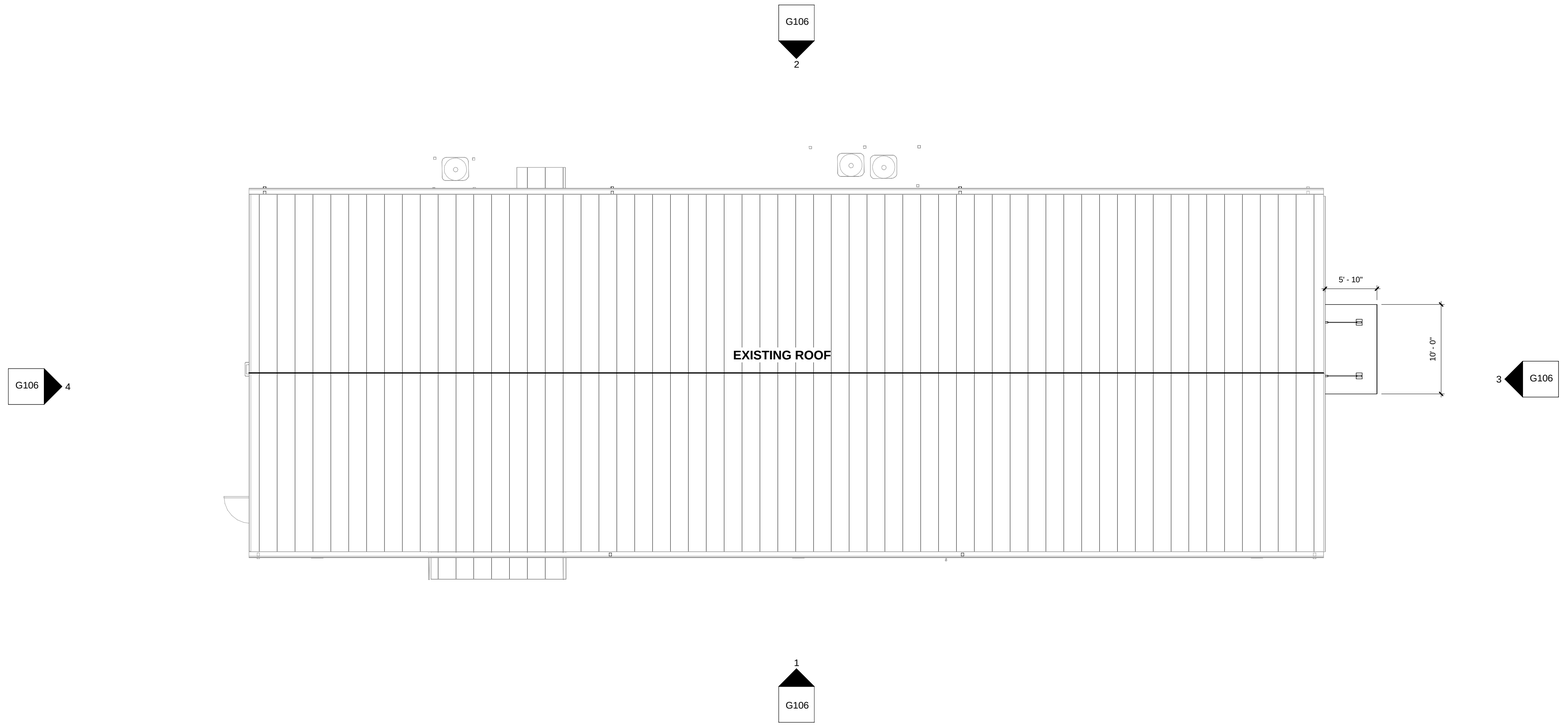
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"BLDG B" RCP & FINISH FLOOR PLAN

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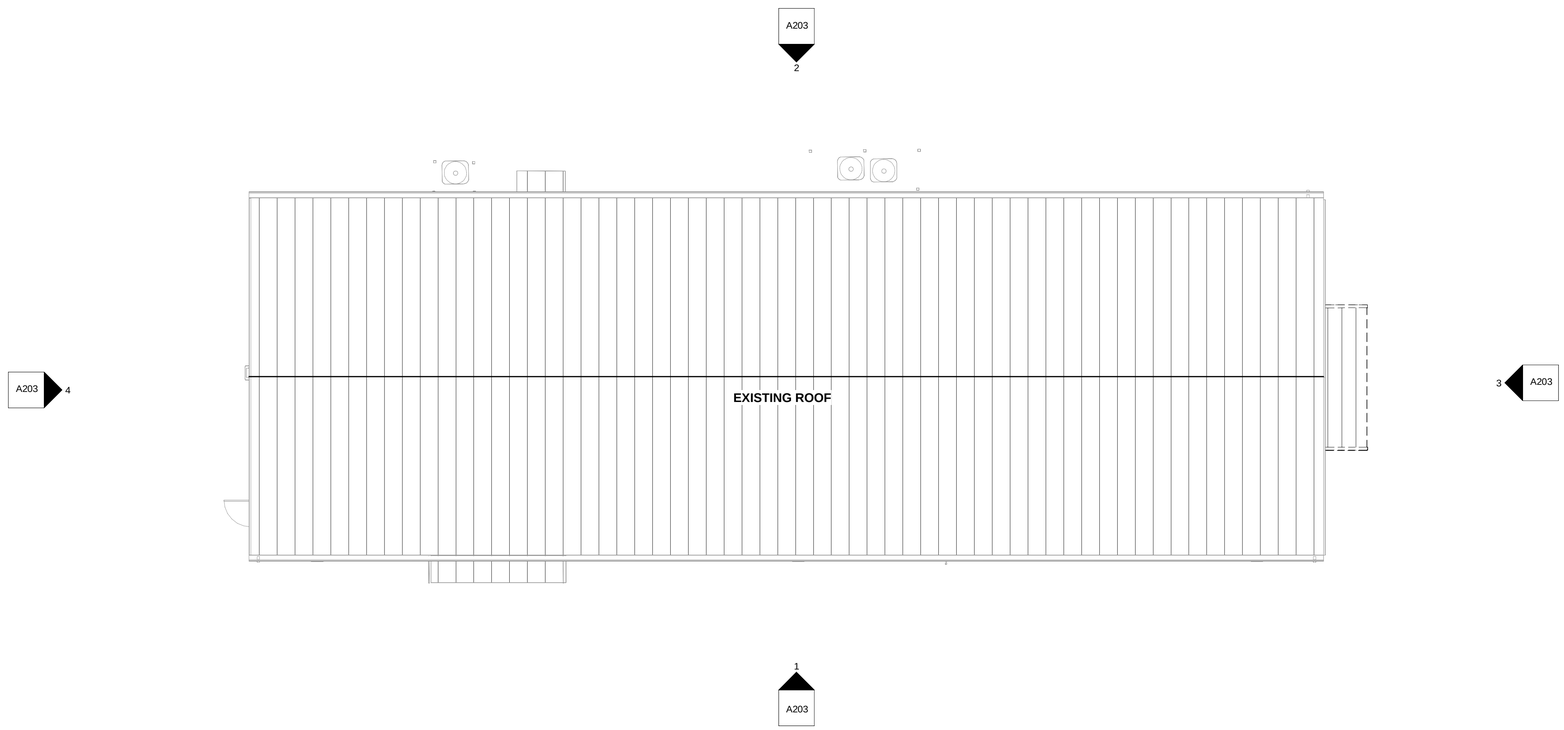
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"BLDG B" ROOF PLAN

1/8" = 1'-0"

2



"BLDG B" DEMO ROOF PLAN

1/8" = 1'-0"

1

GENERAL NOTES

A. REFER TO STRUCTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

B. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWINGS, SUBMITTALS AND STRUCTURAL DRAWINGS.

C. BUILDING SHALL HAVE A CLASS "A" ROOF, RE; SPECS

D. MAINTAIN MINIMUM 1/4" SLOPE THROUGH OUT ROOF AREA.

E. GC SHALL BE RESPONSIBLE FOR COORDINATION OF SIZES AND LOCATIONS OF ROOF PENETRATIONS (INCLUDING BUT NOT LIMITED TO VENT, DUCT, ELECTRICAL, GAS, & CONDENSATE DRAINS.), PLATFORMS, BASES ETC, COORDINATE SIZES OF MECHANICAL PLATFORMS, BASES, ROOF EQUIPMENT PLATFORMS & PENETRATIONS WITH EQUIPMENT BEING SUPPLIED.

F. MAINTAIN ALL ROOF PENETRATIONS 3'-0" MINIMUM FROM FLOW LINES

G. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 5'-0" OF EXTERIOR WALL.

H. COORDINATE, PROVIDE, AND INSTALL ALL EQUIPMENT PLATFORMS.

I. ALL ROOF TOP MECHANICAL EQUIPMENT CURBS TO BE PRE-FABRICATED AND INSULATED. CURBS SHALL BE DESIGNED AND INSTALLED WITH TOP OF CURB SET LEVEL IN ALL DIRECTIONS. PROVIDED AND INSTALLED BY G.C.

J. CURB HEIGHTS SHALL BE BASED UPON THE UNIT CONDENSATION DRAIN REQUIREMENTS, AND SHALL BE A MINIMUM OF 12" ABOVE ROOF.

K. SEE MECHANICAL DRAWINGS FOR 1-HR. ROOF CURB REQUIREMENTS AND LOCATIONS.

L. ROOFING CONTRACTOR SHALL FURNISH & INSTALL ALL ROOF FLASHING ASSEMBLIES AS REQUIRED AT ALL ROOF PENETRATION LOCATIONS TO ENSURE WATER TIGHTNESS.

M. UPON COMPLETION OF INSTALLATION OF ALL ROOF CURBS, SUPPORT FRAMING, ROOF HATCH, ROOF AND PARAPET MEMBRANE, FLASHINGS, ETC., G.C. AND ROOF MEMBRANE CONTRACTOR SHALL PERFORM A WATER TEST TO CONFIRM WATER TIGHTNESS.

KEYED NOTES = (#)

1. 8" X 8" PREFINISHED ROOF GUTTER, MATCH EXISTING WALL PANEL COLOR. NEW GUTTER WITH DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
2. SCHEDULED ROOF PANEL, RE: A601
3. SCHEDULED PRE-FABRICATED PREFINISHED ALUMINUM CANOPY WITH INTEGRAL GUTTERS & DOWNSPOUT DIVERTERS. RE:
4. NEW SIPS ROOF PANEL SYSTEM & ROOF FRAMING. ENSURE POSITIVE DRAINAGE. RE: SECTIONS & DETAILS.
5. PROPOSED ROOF CRICKET, RE: A106.
6. NEW CHAIN DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, 8" X 8" PREFINISHED ROOF GUTTER, MATCH EXISTING WALL PANEL COLOR. RE: CIVIL DRAWINGS.

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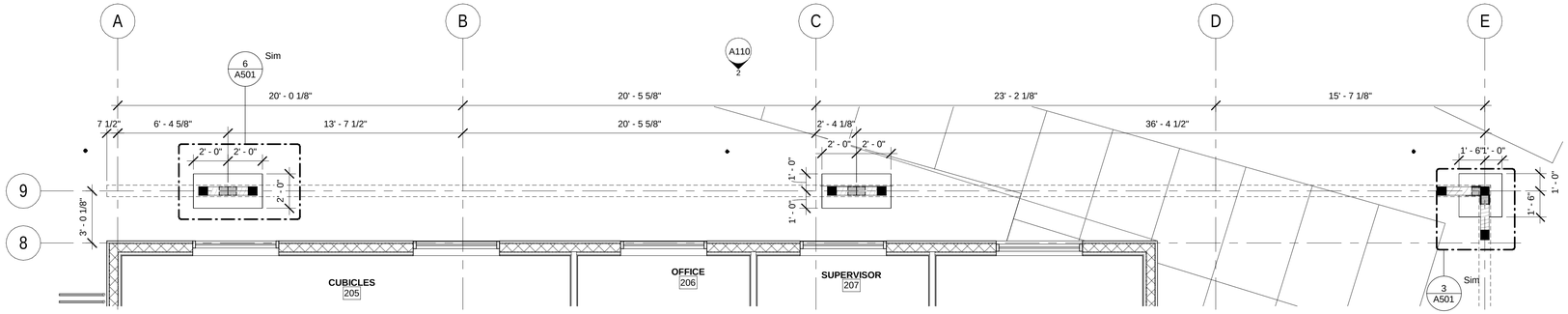
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"BLDG B" DEMO ROOF PLAN & ROOF PLAN

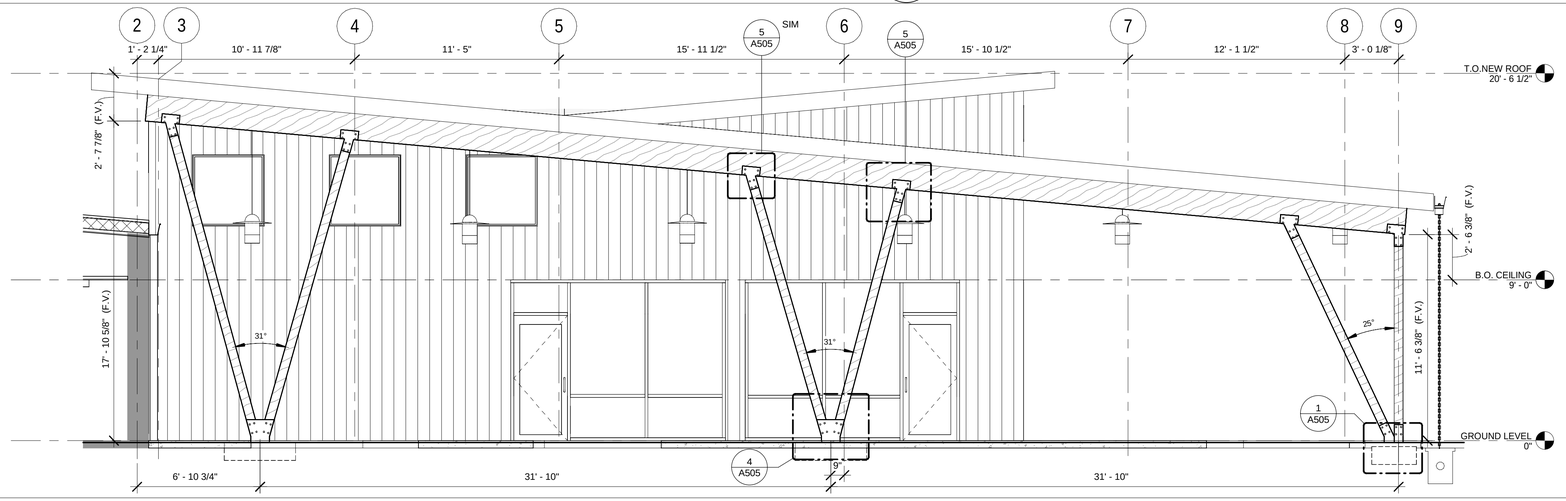
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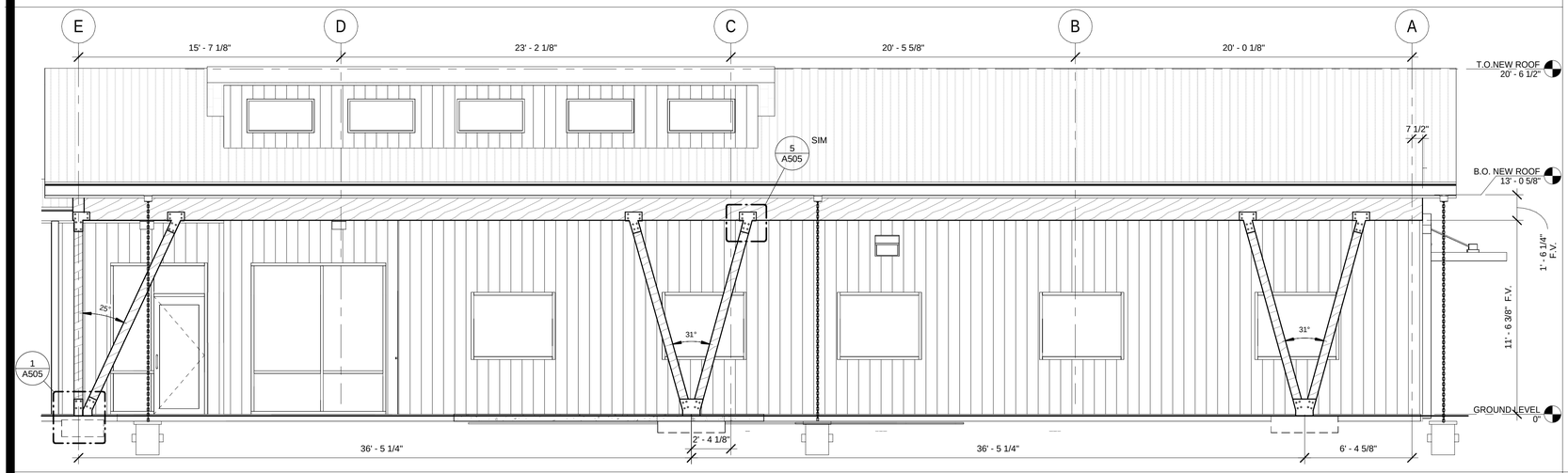
ENLARGED SOUTH ELEVATION WOOD COLUMNS AREA 4

1/4" = 1'-0"



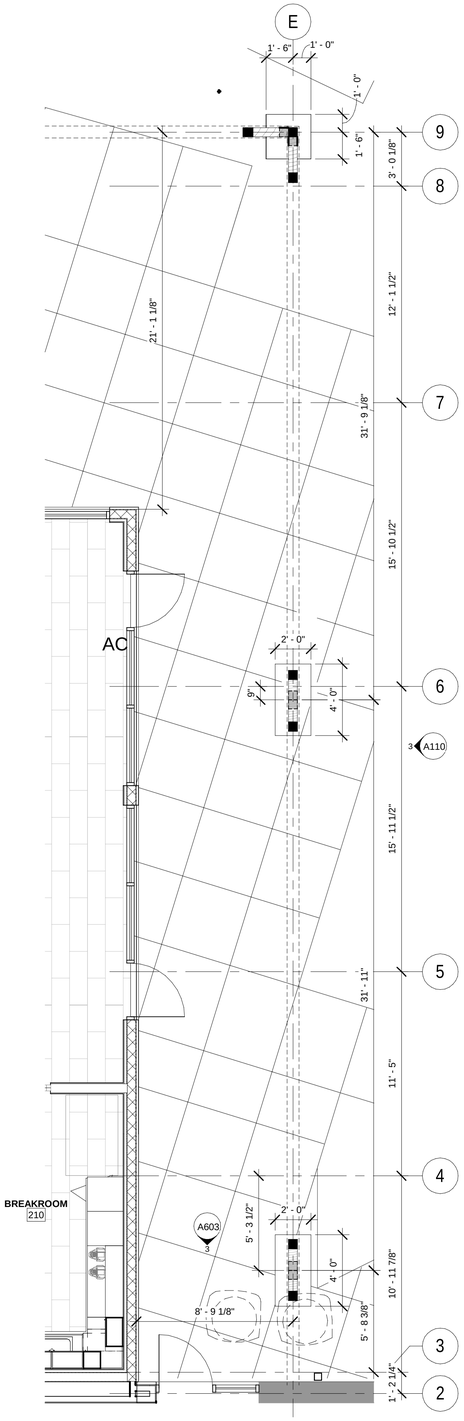
ENLARGED WEST ELEVATION WOOD COLUMNS AREA 3

1/4" = 1'-0"



ENLARGED SOUTH ELEVATION WOOD COLUMNS AREA 2

1/4" = 1'-0"



ENLARGED WEST PLAN WOOD COLUMNS AREA 1

1/4" = 1'-0"

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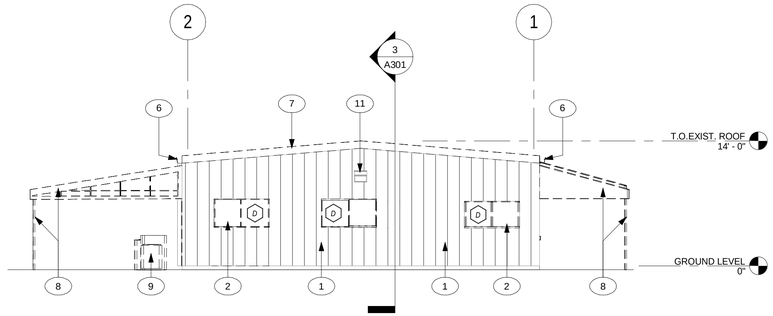
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ENLARGED PLANS "BLDG A&C" EXTERIOR WOOD COLUMNS

A110

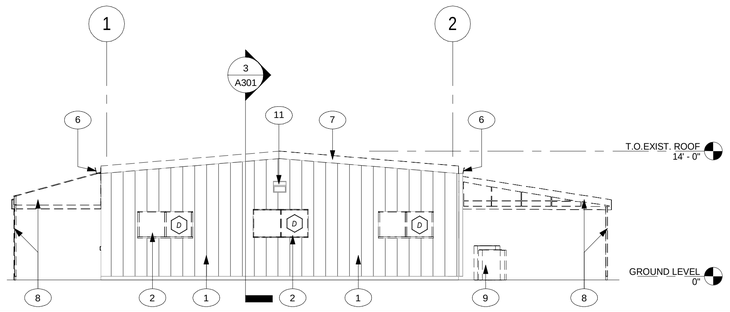
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WEST DEMO ELEVATION

1/8" = 1'-0"

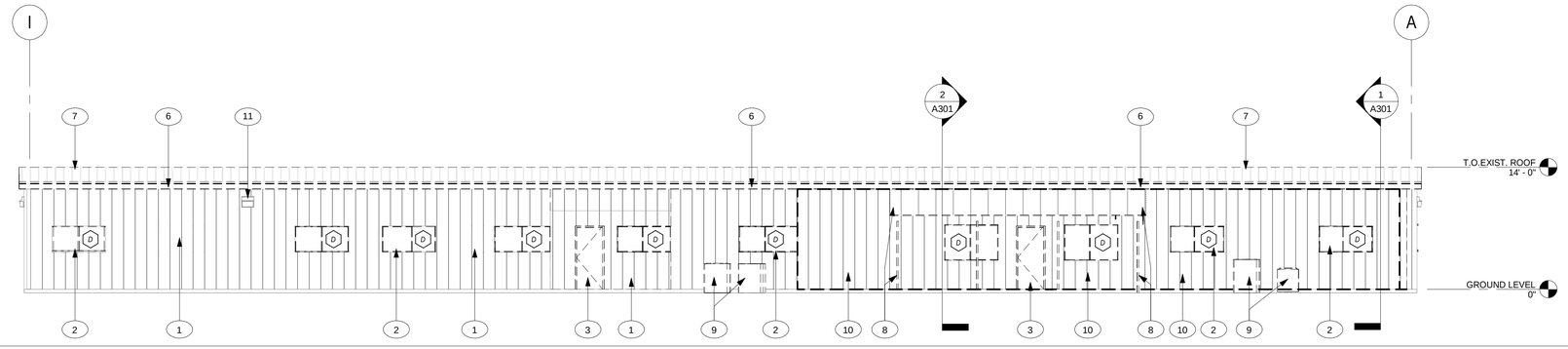
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EAST DEMO ELEVATION

1/8" = 1'-0"

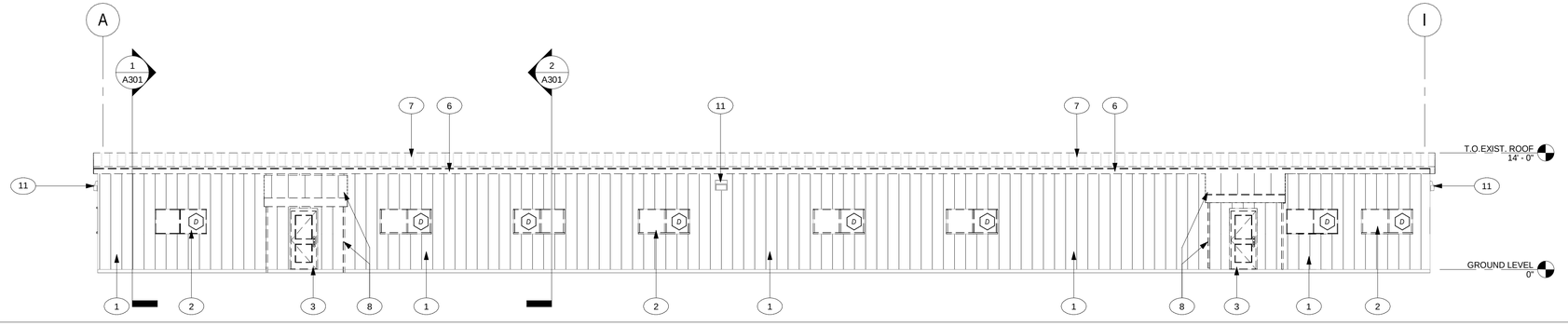
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SOUTH DEMO ELEVATION

1/8" = 1'-0"

2



NORTH DEMO ELEVATION

1/8" = 1'-0"

1

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

KEYED NOTES = (#)

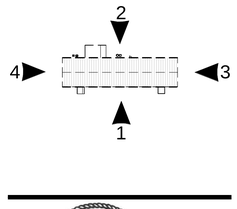
1. DEMO EXISTING WALL EXTERIOR FINISH ONLY. EXISTING STEEL COLUMNS, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREPARE AREA FOR NEW PROPOSED DESIGN.
2. DEMO EXISTING WINDOWS.
3. DEMO EXISTING DOORS.
4. DEMO EXISTING PANELS FOR PROPOSED DOORS.
5. DEMO EXISTING PANELS FOR PROPOSED WINDOWS.
6. EXISTING GUTTER TO REMAIN.
7. DEMO EXISTING ROOF EXTERIOR FINISH ONLY. EXISTING PEMB COLUMN, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREP AREA FOR NEW PROPOSED DESIGN.
8. DEMOLISH EXISTING CANOPY. PATCH, REPAIR, AND/OR REPLACE EXTERIOR FINISH IF DAMAGE DURING DEMOLITION AND CONSTRUCTION.
9. EXISTING MECHANICAL SYSTEM TO BE RELOCATED. RE: MECH DWG'S.
10. DEMO EXISTING WALL, EXISTING PEMB COLUMN, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREP AREA FOR NEW PROPOSED DESIGN.
11. EXISTING WALL PACK LIGHT TO REMAIN.

LEGEND

- 0 — GRID LINE
- DEMO ITEMS
- (8) — WINDOW TAG
- (D) — DEMO WINDOW
- E — EXISTING WINDOW TO REMAIN

THE WOODLANDS TOWNSHIP

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10/22/2025

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THE WOODLANDS, TX 77381

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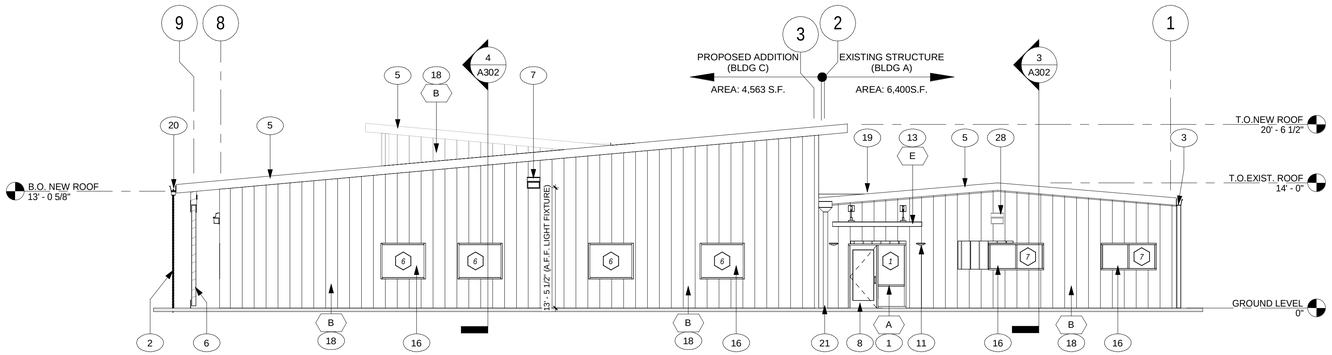
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RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A" DEMO EXTERIOR ELEVATIONS

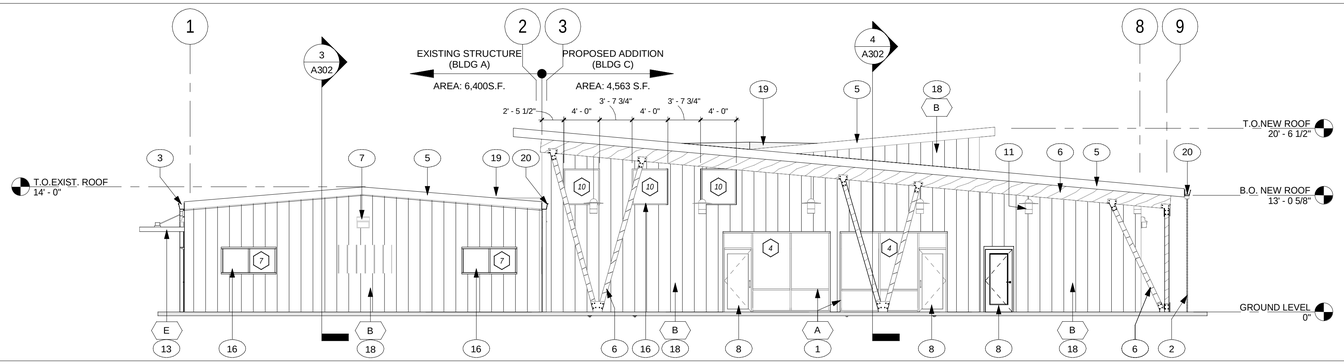
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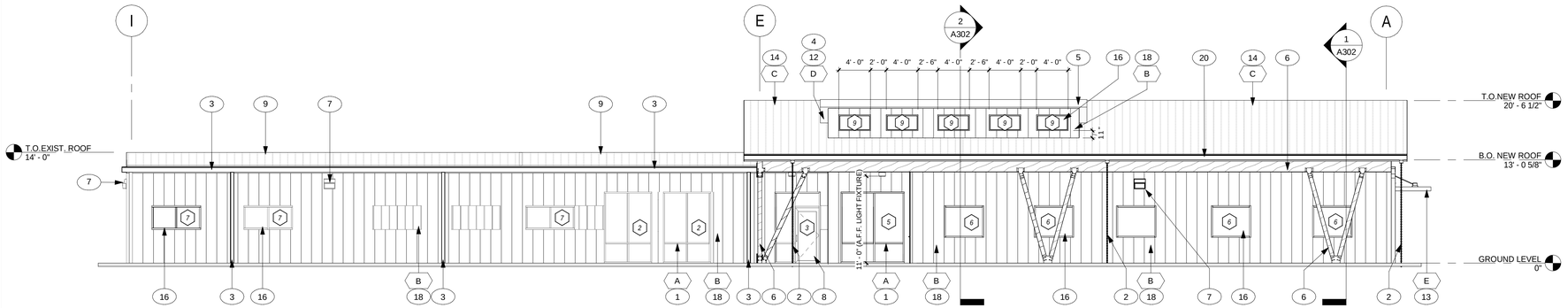
EAST ELEVATION 4

1/8" = 1'-0"



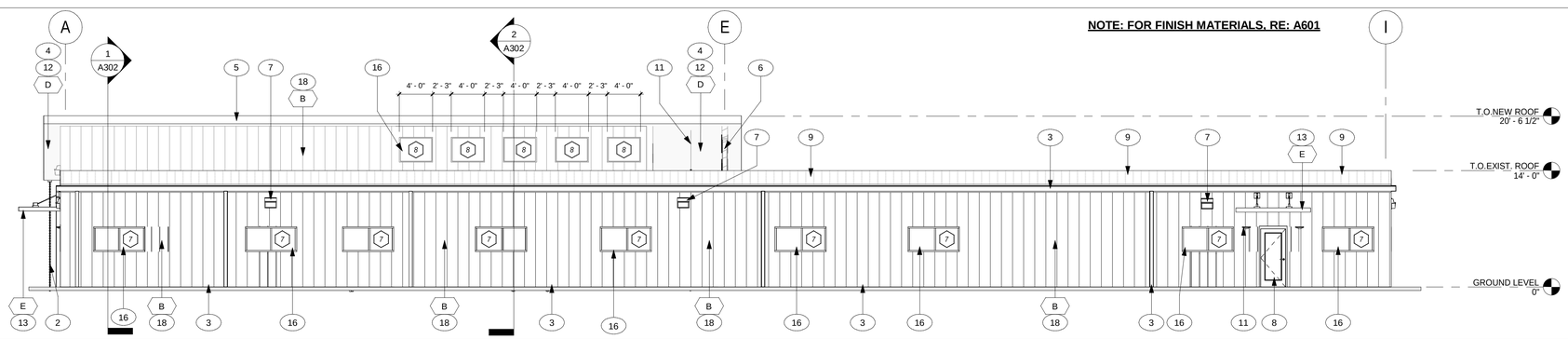
WEST ELEVATION 3

1/8" = 1'-0"



SOUTH ELEVATION 2

1/8" = 1'-0"



NOTE: FOR FINISH MATERIALS, RE: A601

NORTH ELEVATION 1

1/8" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

KEYED NOTES = (#)

1. BLACK ANODIZED ALUMINUM STOREFRONT SYSTEM RE: A603.
2. NEW CHAIN DOWNSPOUT CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
3. PAINTED EXISTING TO REMAIN ROOF GUTTER AND DOWNSPOUT, MATCH EXISTING WALL PANEL PAINT COLOR. REPLACE ANY DAMAGE SPOUTS OR GUTTERS AND RELOCATE AS REQUIRED.
4. EXTENDED OVERHANG, RE: ROOF PLAN.
5. PREFINISHED METAL EDGESHIELD SYSTEM AT PERIMETER OF ROOF, RE: DETAILS.
6. ENGINEERING WOOD COLUMNS/BEAMS, RE: SIPS SYSTEM PLANS.
7. WALL PACK LIGHT FIXTURE, MATCH EXISTING LIGHTS COLOR, RE: ELECTRICAL DWGS. MOUNT BOTTOM AT 12'-0", CENTERED BETWEEN PANEL JOINTS UNLESS NOTED OTHERWISE.
8. SCHEDULED DOOR, RE: A602.
9. SCHEDULED ROOF PANEL, RE: A601
10. EXISTING COLUMN/BEAM TO REMAIN. PRIME & PAINT AS SCHEDULED. RE: MATERIAL / FINISH SCHEDULE.
11. SCHEDULED LIGHT FIXTURE AS NOTED. RE: LIGHT FIXTURE SCHEDULE & ELECTRICAL DRAWINGS.
12. SCHEDULED SYNTHETIC WOOD FOR CLADDING. RE: MATERIAL / FINISH SCHEDULE.
13. SCHEDULED PRE-FABRICATED PREFINISHED ALUMINUM CANOPY WITH INTEGRAL GUTTERS & DOWNSPOUT DIVERTERS. RE: SPECS.
14. NEW SIPS ROOF PANEL SYSTEM & ROOF FRAMING. ENSURE POSITIVE DRAINAGE. RE: SECTIONS & DETAILS.
15. PRIME & PAINT ALL EXTERIOR HM AND FRAME DOORS & OVERHEAD DOORS TO MATCH ADJACENT WALL COLOR.
16. ALUMINUM WINDOW, RE: A602.
17. SOFFIT MOUNTED ACCESS PANEL. GC TO COORDINATE FINAL SPEC SELECTION, SIZE AND EXACT LOCATION WITH LANDLORD.
18. SCHEDULED METAL WALL PANEL, RE: A601.
19. PROPOSED ROOF CRICKET, RE: A106.
20. PAINTED NEW GUTTER AND DOWNSPOUT, MATCH EXISTING AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL DRAWINGS.
21. PAINTED 8" X 18" WIDE PREFINISHED SCUPPER WITH CATCHMENT BOX, INCLUDE DOWNSPOUT. MATCH EXISTING PAINT COLOR AND CONNECTED TO UNDERGROUND STORM SEWER SYSTEM, RE: CIVIL.

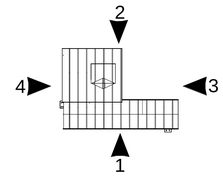
LEGEND

- (0) GRID LINE
- (#) WINDOW TAG
- (E) EXISTING WINDOW TO REPLACE
- NEED TO BE INFILLED

NOTE: REFER TO A601/A602 FOR SCHEDULES

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REGISTERED ARCHITECT JERRY TIPTON 18755 STATE OF TEXAS

10/22/2025

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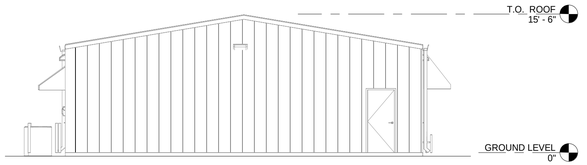
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C"
EXTERIOR
ELEVATIONS

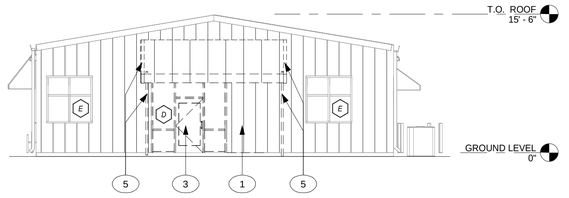
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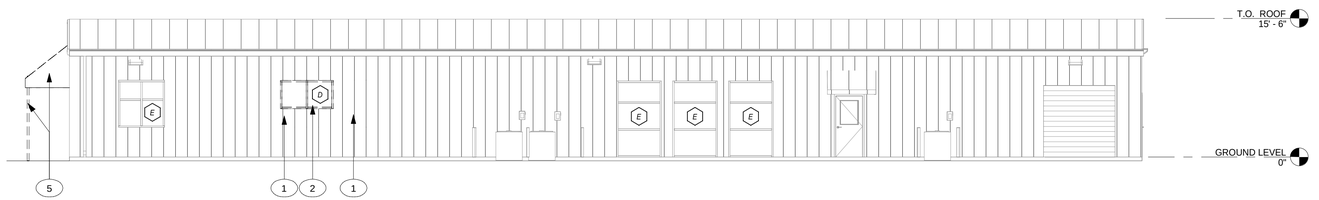
SOUTH DEMO ELEVATION 4

1/8" = 1'-0"



NORTH DEMO ELEVATION 3

1/8" = 1'-0"



EAST DEMO ELEVATION 2

1/8" = 1'-0"



WEST DEMO ELEVATION 1

1/8" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

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NOTES TO SHEET (#) = KEYED NOTES

1. DEMO EXISTING EXTERIOR FINISH ONLY. EXISTING PEMB COLUMN, AND SUPPORT MEMBERS TO REMAIN PROTECTED FROM DAMAGE. PREP AREA FOR NEW PROPOSED DESIGN.
2. DEMO EXISTING WINDOW.
3. DEMO EXISTING PANELS FOR PROPOSED STOREFRONT.
4. EXISTING EXTERIOR WALL/WINDOW TO REMAIN. PROTECT WALL STRUCTURE FROM DEMOLITION AND CONSTRUCTION. (PROVIDE OPTION FOR REMOVAL AND REPLACEMENT OF NEW PANELS/WINDOWS RE: FINISH SCHED.)
5. DEMOLISH EXISTING CANOPY. PATCH, REPAIR, AND/OR REPLACE EXTERIOR FINISH IF DAMAGE DURING DEMOLITION AND CONSTRUCTION.

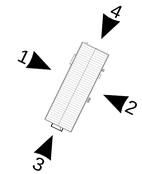
NOTE: IF IT DOES NOT HAVE A KEYNOTE IT IS EXISTING TO REMAIN U.N.O.

SYMBOL LEGEND PLAN

DEMO ITEMS – – – – – –

THE WOODLANDS TOWNSHIP

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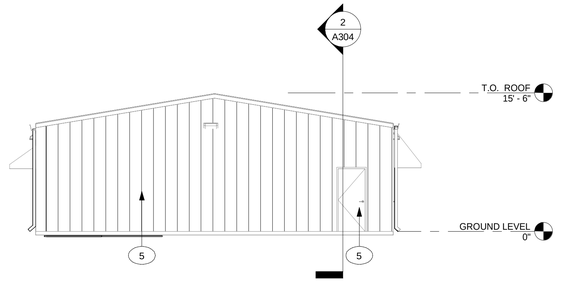
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RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

"BLDG B" DEMO EXTERIOR ELEVATIONS

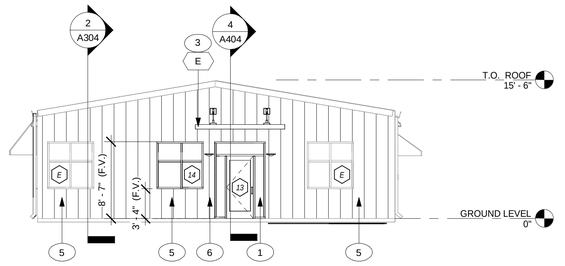
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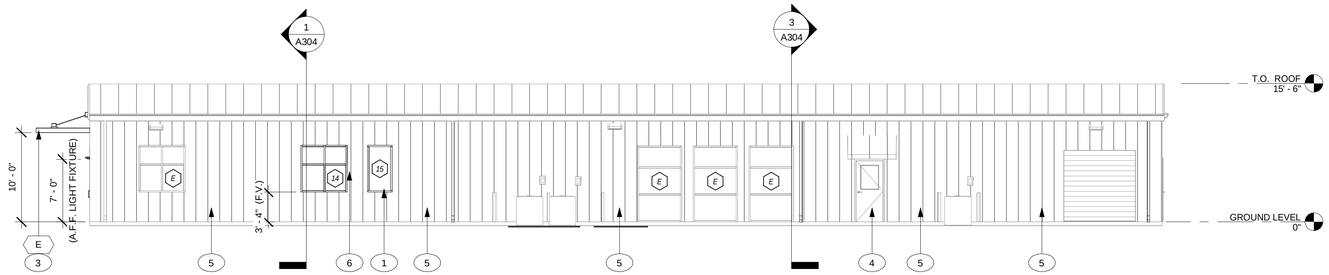
SOUTH ELEVATION 4

1/8" = 1'-0"



NORTH ELEVATION 3

1/8" = 1'-0"



EAST ELEVATION 2

1/8" = 1'-0"



WEST ELEVATION 1

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NOTES TO SHEET

(#) = KEYED NOTES

1. BLACK ANODIZED ALUMINUM STOREFRONT AND WINDOWS SYSTEM RE: A602, A603.
2. SCHEDULED DOOR, RE: A602.
3. SCHEDULED PRE-FABRICATED PREFINISHED ALUMINUM CANOPY WITH INTEGRAL GUTTERS & DOWNSPOUT DIVERTERS. RE:
4. PRIME & PAINT ALL EXTERIOR HM AND FRAME DOORS & OVERHEAD DOORS TO MATCH ADJACENT WALL COLOR.
5. EXISTING METAL PANELS TO BE REPAINTED
6. AREA TO BE REPLACED WITH NEW METAL PANELS, (MATCH EXISTING PANEL AND PAINT).

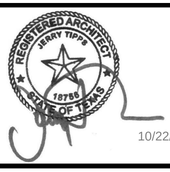
NOTE: FOR FINISH MATERIALS, RE: A601

NOTE: REFER TO A601/A602 FOR SCHEDULES

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10/22/2025

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THE WOODLANDS, TX 77381

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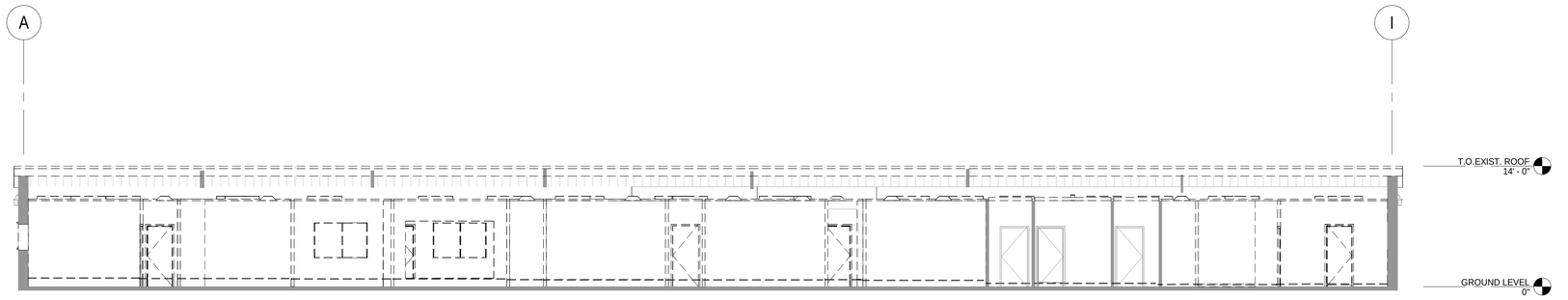
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

"BLDG B" EXTERIOR ELEVATIONS

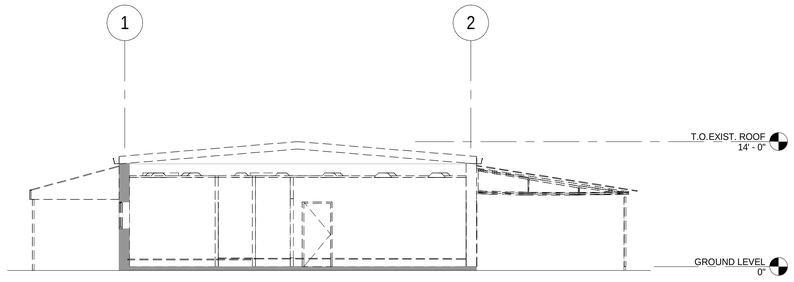
A204

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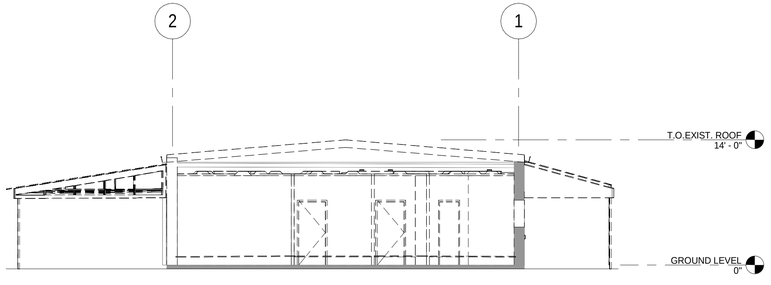
NORTH DEMO BUILDING SECTION 3

RE: 1/A101 | 1/8" = 1'-0"



EAST DEMO BUILDING SECTION 2

RE: 1/A101 | 1/8" = 1'-0"



WEST DEMO BUILDING SECTION 1

RE: 1/A101 | 1/8" = 1'-0"

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18786 BEAUMONT, TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
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281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:05:33 PM

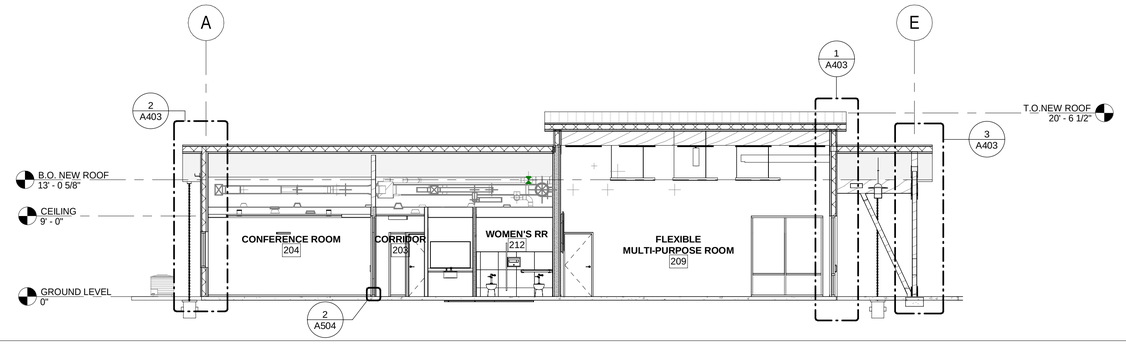
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" DEMO BUILDING SECTION

A301

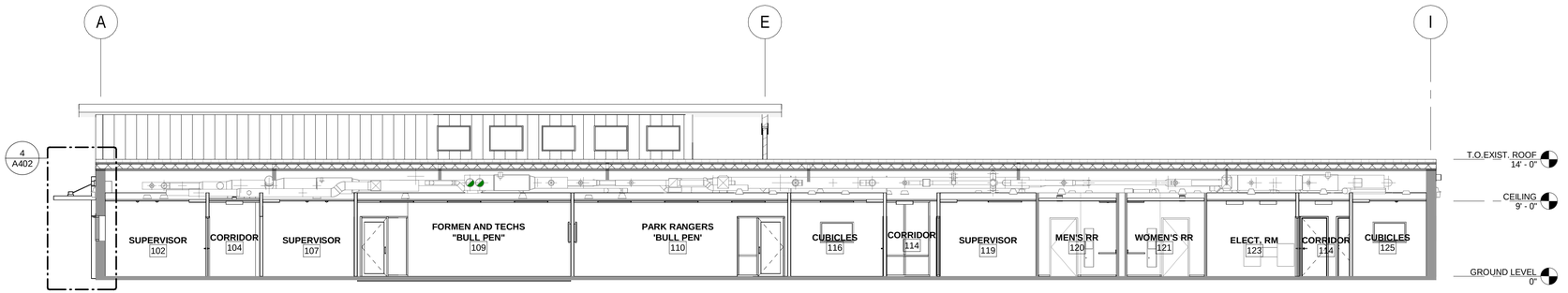
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NORTH BUILDING SECTION

RE: 1/A102 | 1/8" = 1'-0"

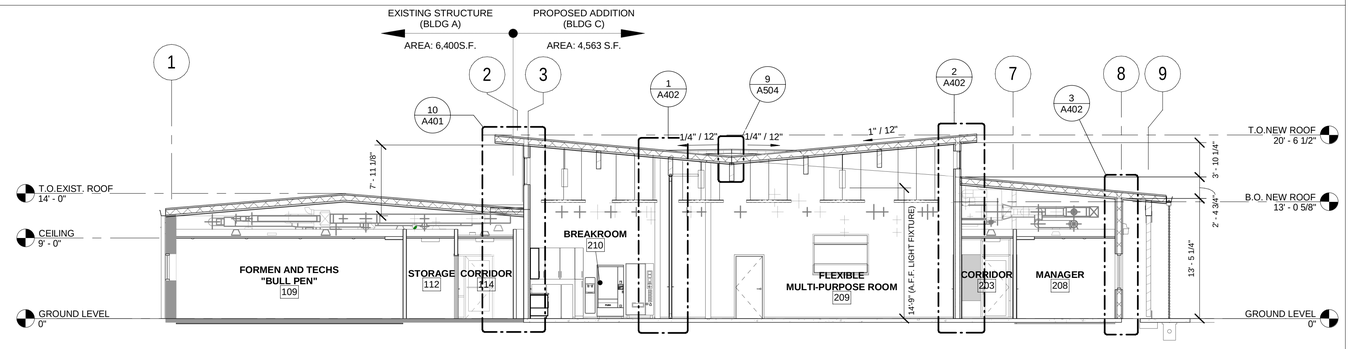
4



NORTH BUILDING SECTION

RE: 1/A102 | 1/8" = 1'-0"

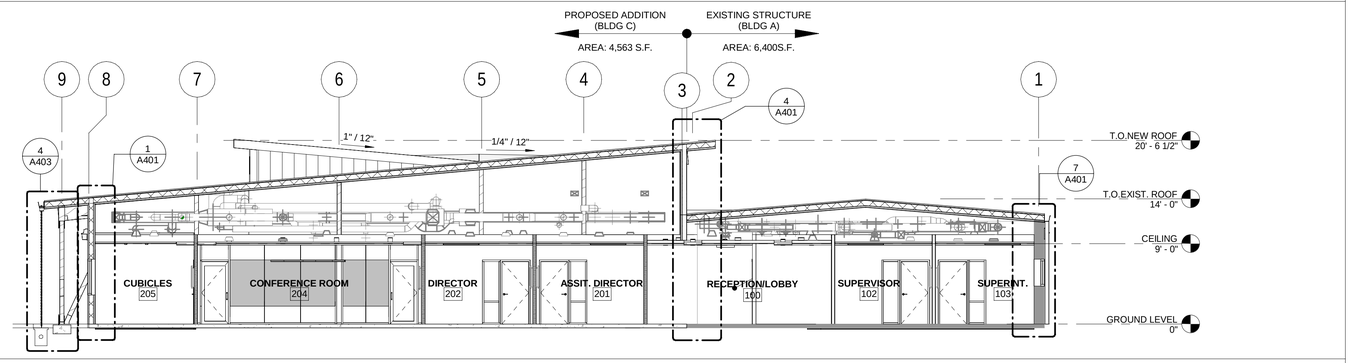
3



EAST BUILDING SECTION

RE: 1/A102 | 1/8" = 1'-0"

2



WEST BUILDING SECTION

RE: 1/A102 | 1/8" = 1'-0"

1

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18786 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

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THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:06:04 PM

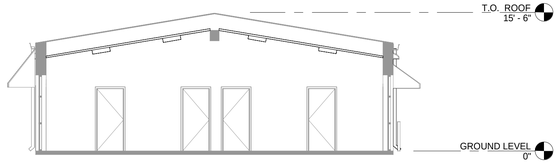
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" BUILDING SECTION

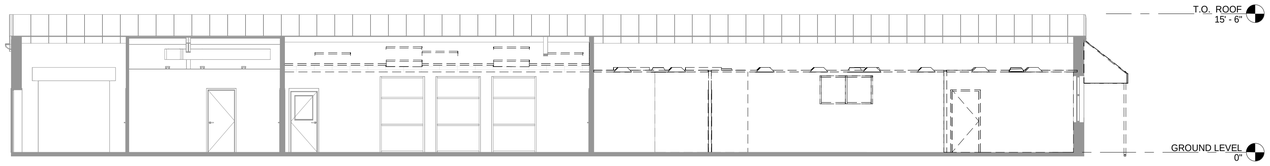
A302

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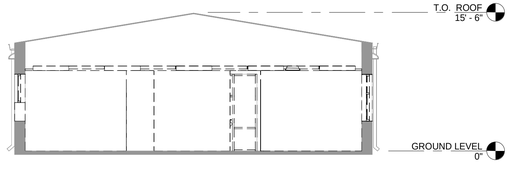
NORTH DEMO BUILDING SECTION 3

RE: 1/A107 | 1/8" = 1'-0"



WEST DEMO BUILDING SECTION 2

RE: 1/A107 | 1/8" = 1'-0"



SOUTH DEMO BUILDING SECTION 1

RE: 1/A107 | 1/8" = 1'-0"

THE WOODLANDS TOWNSHIP

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10/22/2025

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Project Number:	Sheet Size:
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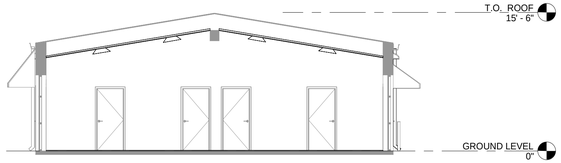
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

“BLDG B” DEMO BUILDING SECTION

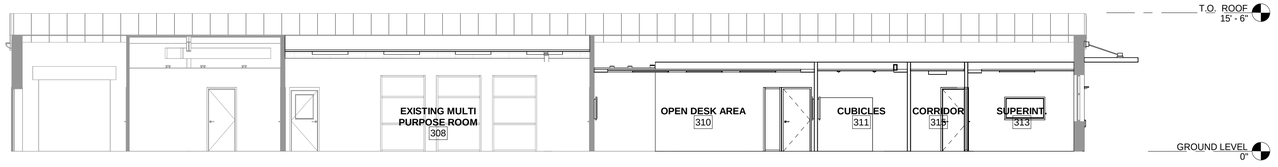
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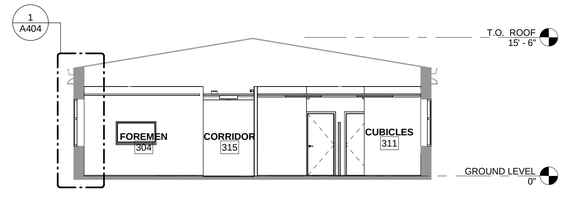
NORTH BUILDING SECTION 3

RE: 1/A107 | 1/8" = 1'-0"



WEST BUILDING SECTION 2

RE: 1/A107A | 1/8" = 1'-0"



SOUTH BUILDING SECTION 1

RE: 1/A107A | 1/8" = 1'-0"

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18786 STATE OF TEXAS

10/22/2025

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THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:07:07 PM

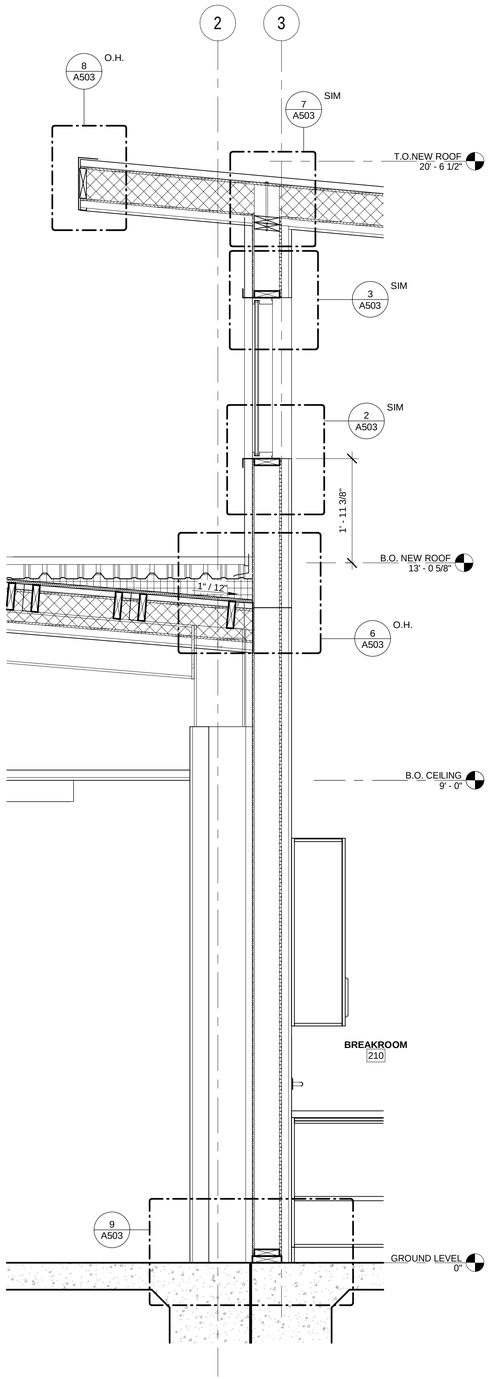
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG B" BUILDING SECTION

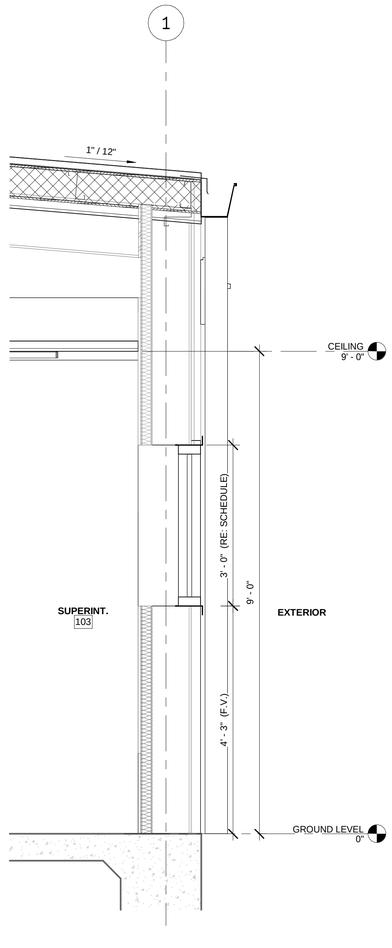
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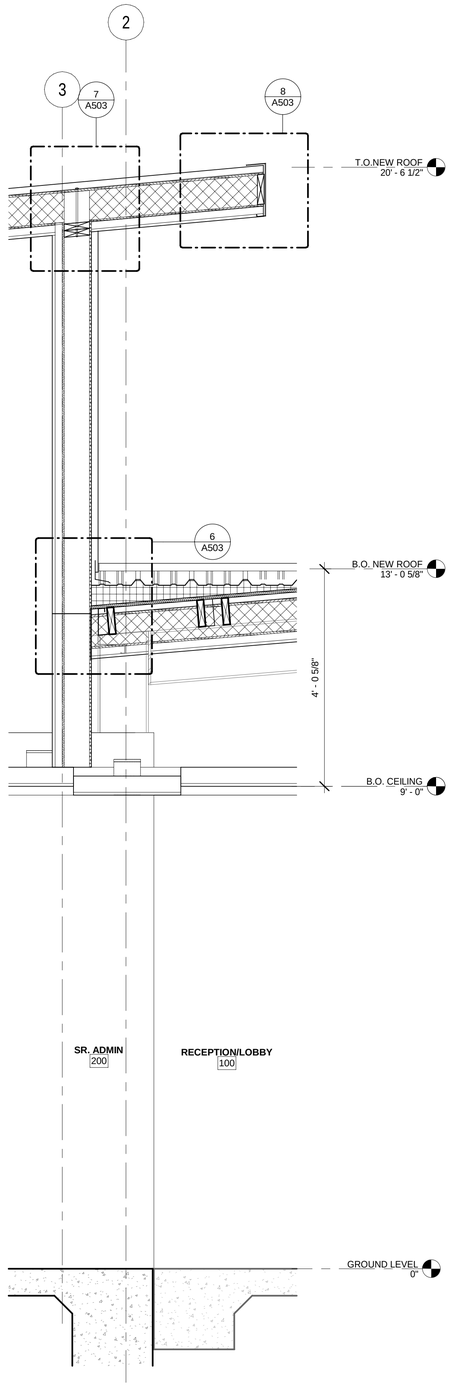
WALL SECTION 10

RE: 2/A302 | 3/4" = 1'-0"



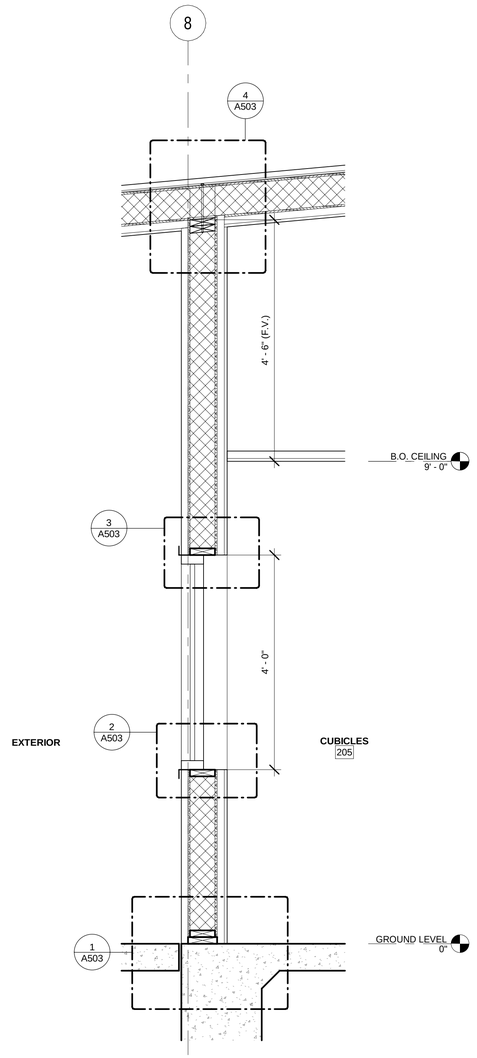
EXISTING WALL SECTION BUILDING - A 7

RE: 1/A302 | 3/4" = 1'-0"



WALL SECTION BUILDING - A 4

RE: 1/A302 | 3/4" = 1'-0"



WALL SECTION BUILDING - A 1

RE: 1/A302 | 3/4" = 1'-0"

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTON 16735 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted:
10/23/2025 6:35:08 PM

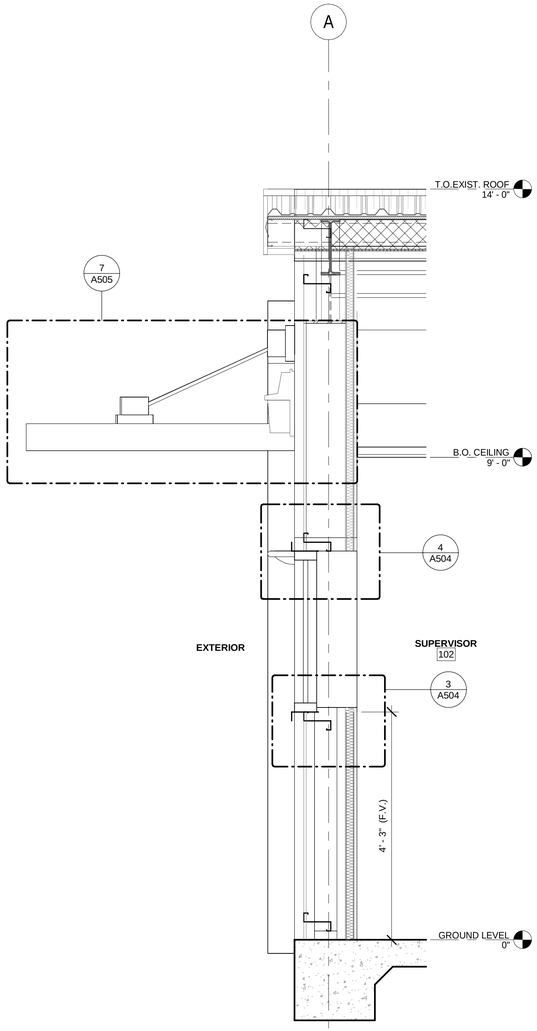
Drawn By:	Checked By:
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Project Phase:
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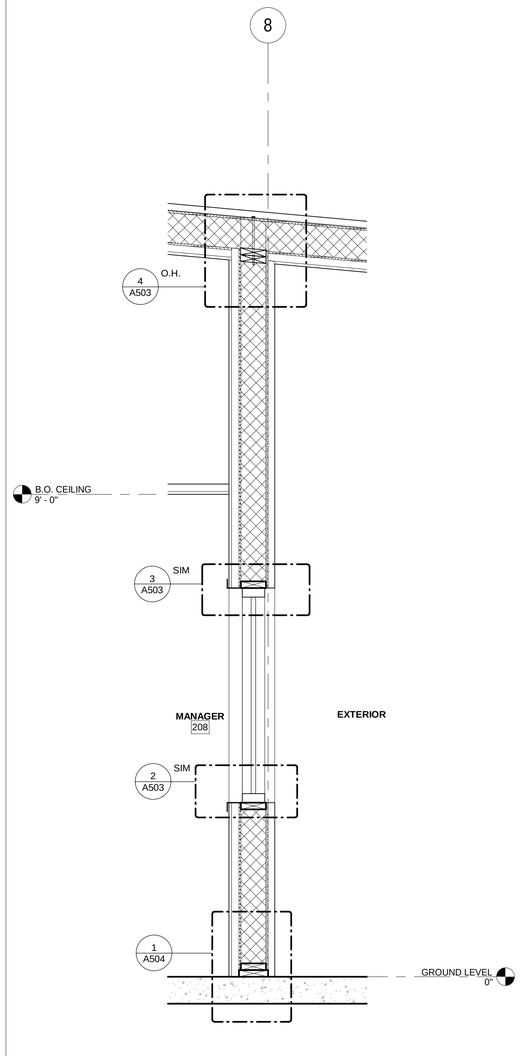
"BLDG A & C" WALL SECTIONS

A401

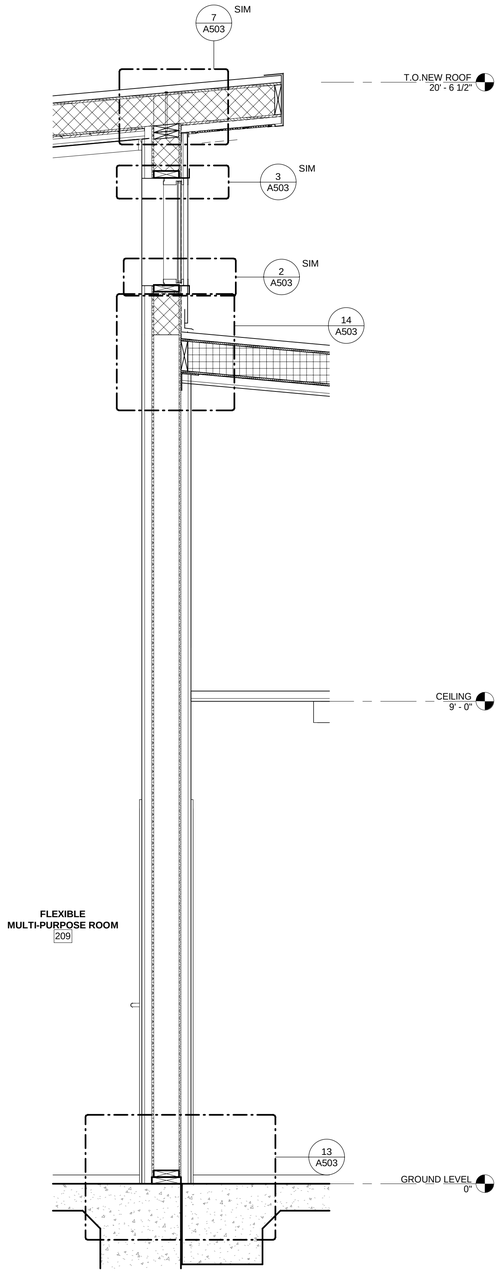
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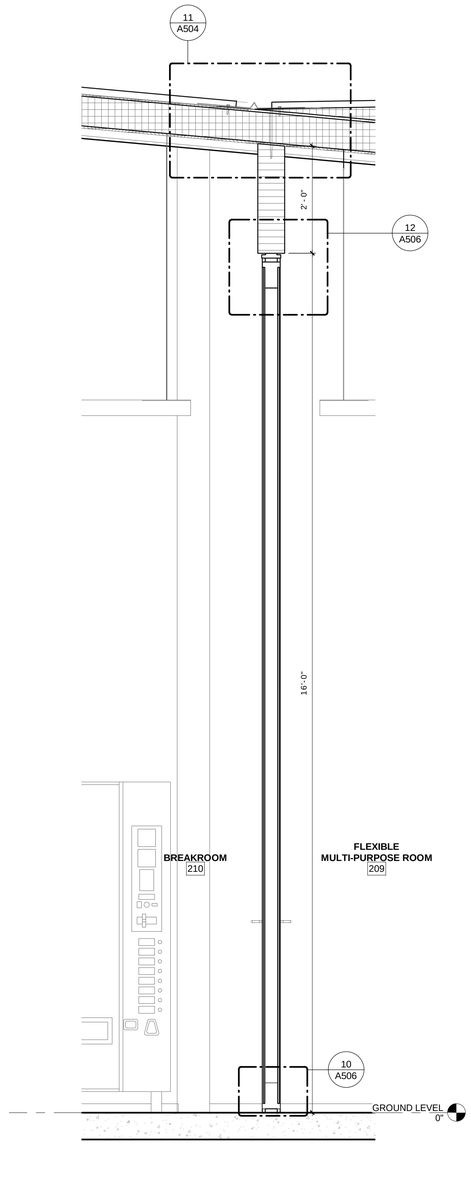
WALL SECTION 4
3/4" = 1'-0"



WALL SECTION 3
3/4" = 1'-0"



WALL SECTION 2
3/4" = 1'-0"



WALL SECTION 1
3/4" = 1'-0"

Δ	DATE:	ISSUE:
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REGISTERED ARCHITECT
JERRY TIPTON
18786
STATE OF TEXAS
10/22/2025

Heights Venture
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:53:02 PM

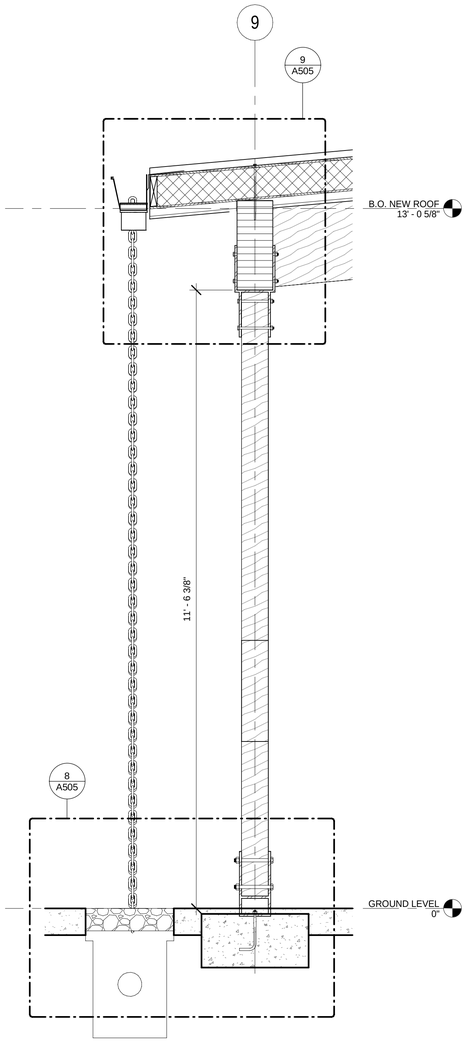
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" WALL SECTION

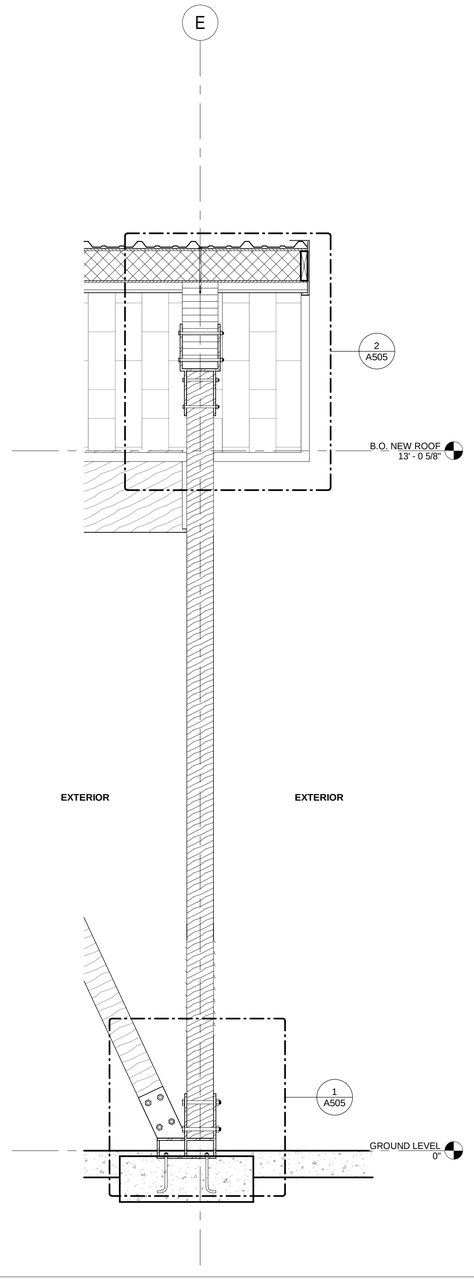
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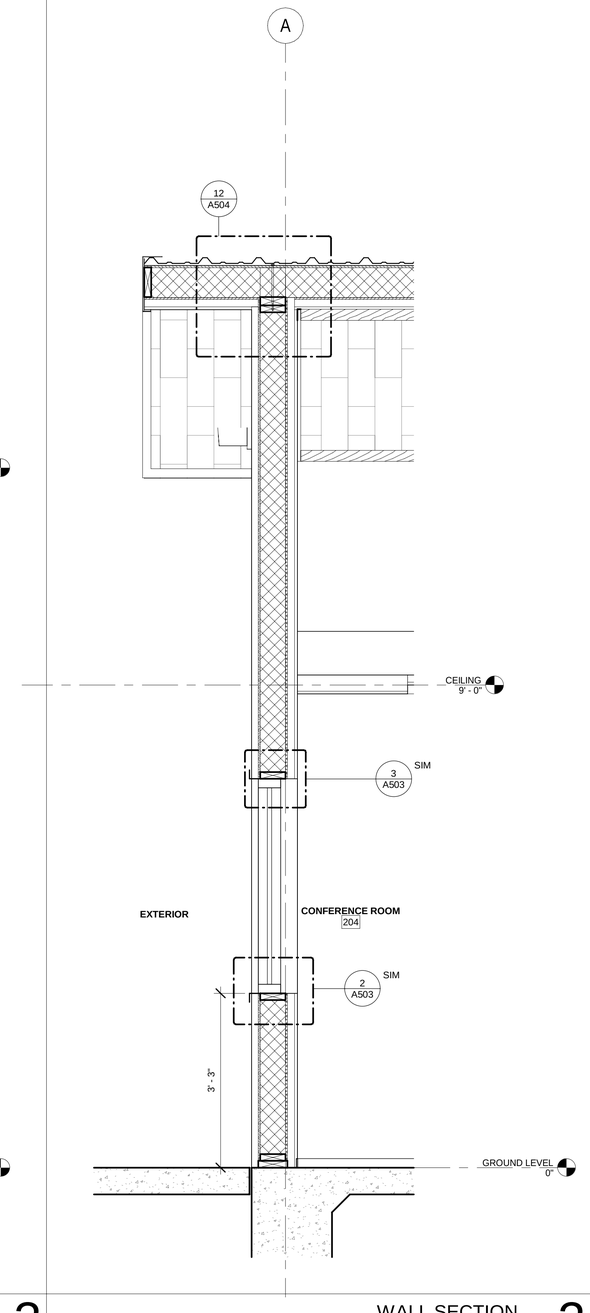
WALL SECTION 4

3/4" = 1'-0"



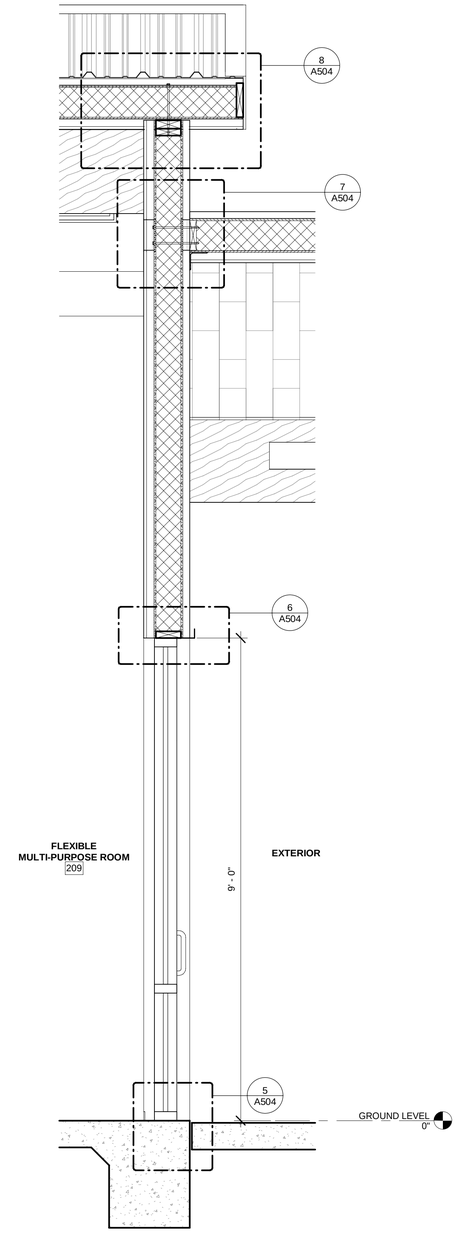
WALL SECTION 3

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 1

3/4" = 1'-0"

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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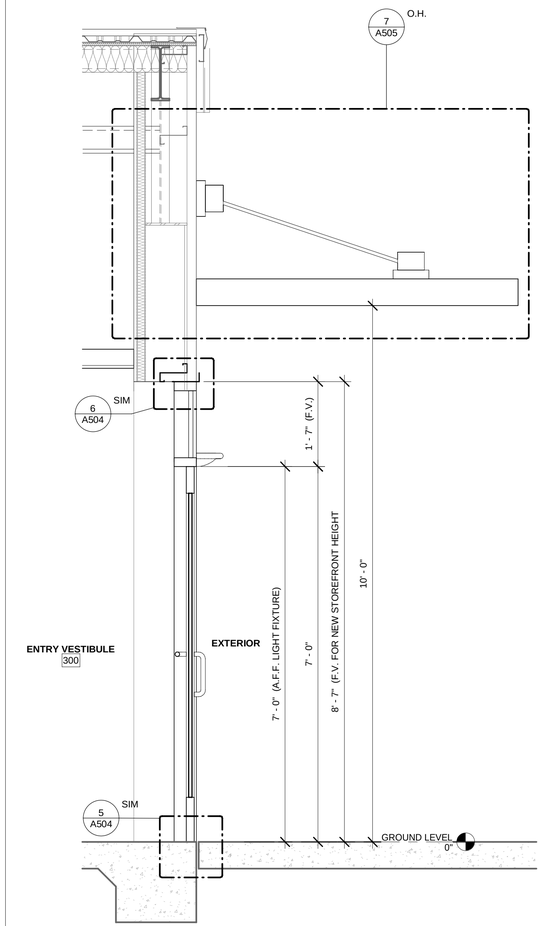
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"BLDG A & C" WALL SECTION

A403

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ENTRY DOOR SECTION

3/4" = 1'-0"

4

EXISTING WALL SECTION

3/4" = 1'-0"

1

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERAY TIPPS 19755 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:12:04 PM

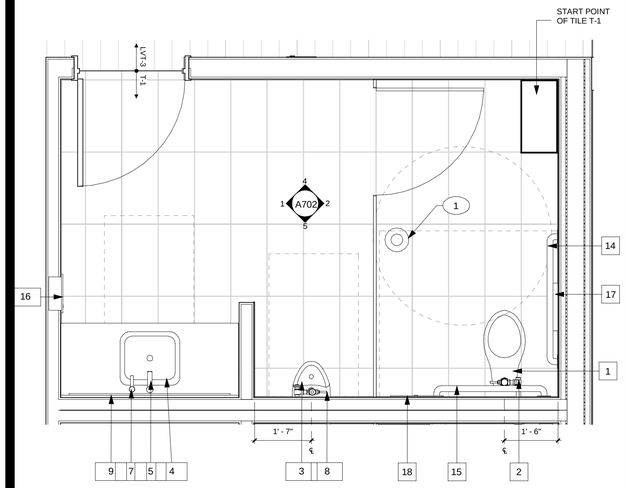
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

“BLDG B” WALL SECTION

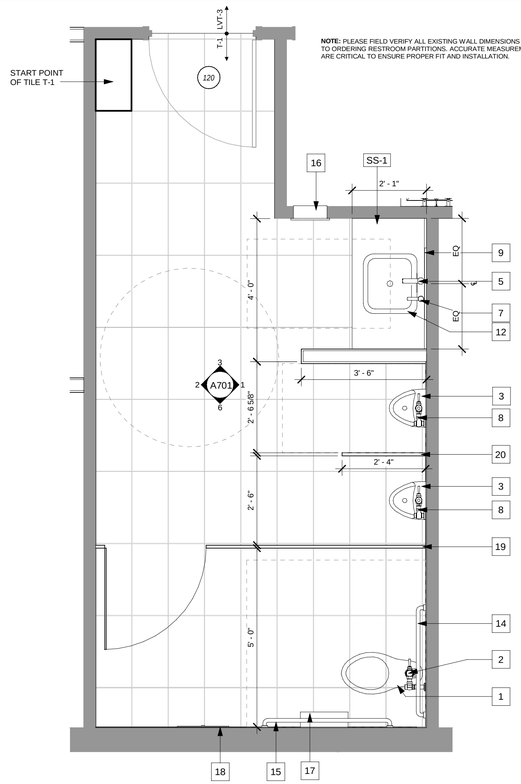
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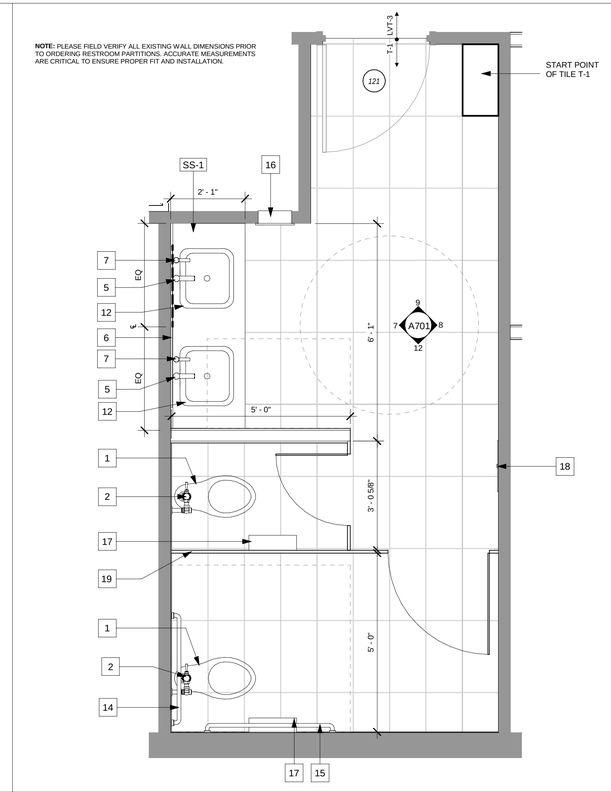
MEN'S RESTROOM #211 ENLARGED PLAN 8

1/2" = 1'-0"



MEN'S RESTROOM #120 ENLARGED PLAN 5

1/2" = 1'-0"



WOMEN'S RESTROOM #121 ENLARGED PLAN 2

1/2" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

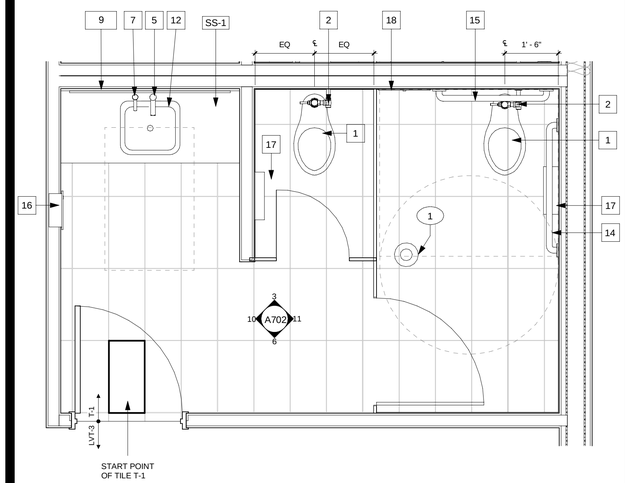
G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

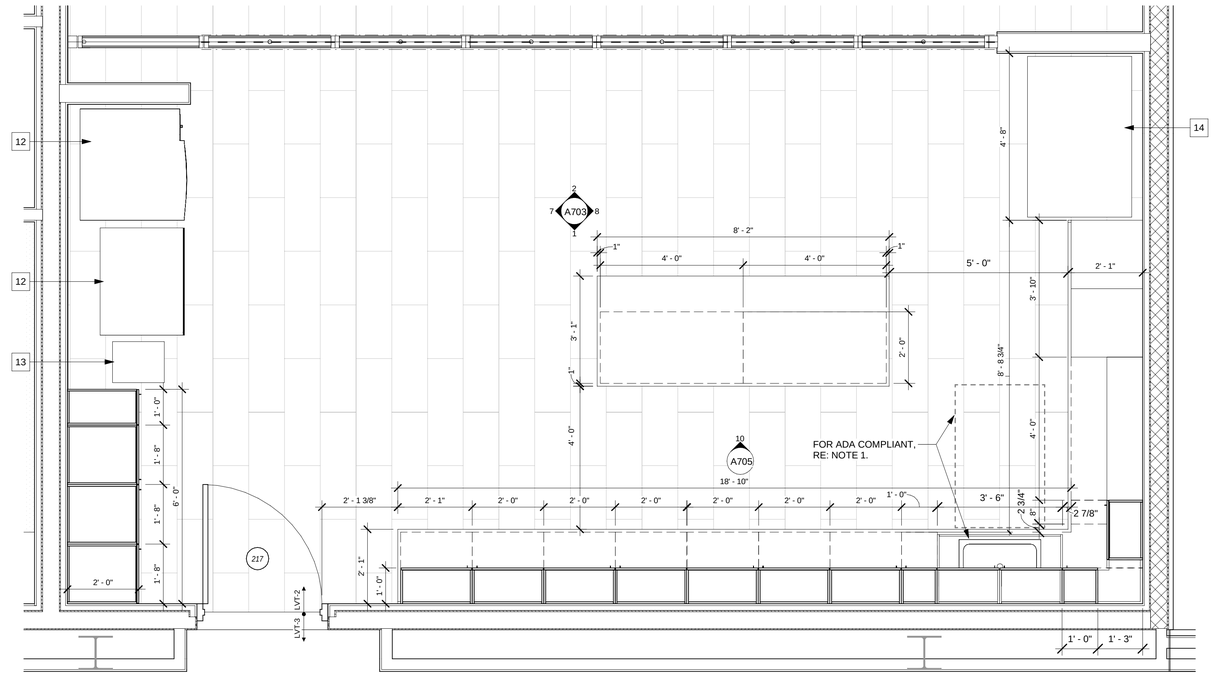
NOTES TO SHEET (#) = KEYED NOTES

1. 6" FLOOR DRAIN, MATCH FAUCET ACCESSORIES FINISH HARDWARE OR EQUAL, RE: PLUMBING.



WOMEN'S RESTROOM #212 ENLARGED PLAN 7

1/2" = 1'-0"



BREAKROOM #210 ENLARGED PLAN 1

1/2" = 1'-0"

LEGEND

- GRID LINE
- DOOR TAG
- WINDOW TAG
- ACCESSORY TAG

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTON 18756 STATE OF TEXAS

10/22/2025

Heights Venture
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THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Drawn By:	Checked By:
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Project Phase: PERMIT ISSUE

"BLDG A & C"
RESTROOMS &
BREAKROOM
ENLARGED PLANS

A405

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GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

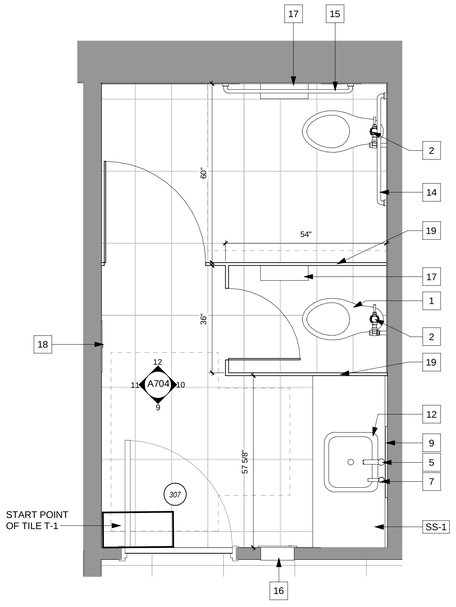
I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

NOTES TO SHEET (#) = KEYED NOTES

1. 6" FLOOR DRAIN, MATCH FAUCET ACCESSORIES FINISH HARDWARE OR EQUAL, RE: PLUMBING.

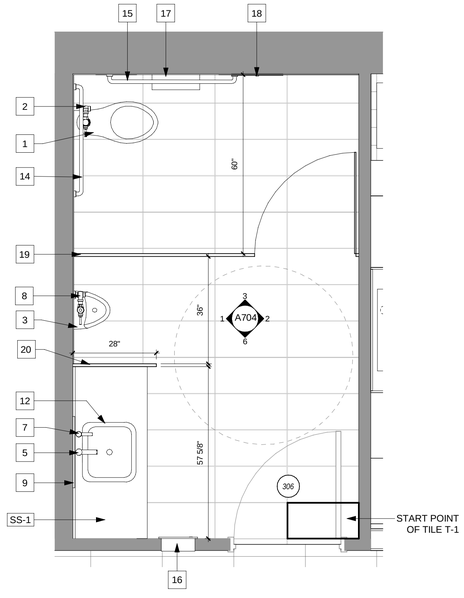
Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

NOTE: PLEASE FIELD VERIFY ALL EXISTING WALL DIMENSIONS PRIOR TO ORDERING RESTROOM PARTITIONS. ACCURATE MEASUREMENTS ARE CRITICAL TO ENSURE PROPER FIT AND INSTALLATION.

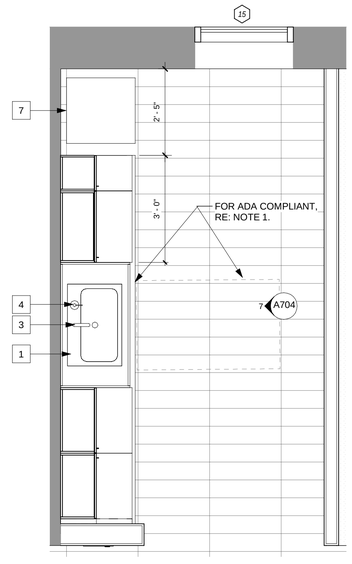


WOMEN'S RESTROOM #307 ENLARGED PLAN 7
1/2" = 1'-0"

NOTE: PLEASE FIELD VERIFY ALL EXISTING WALL DIMENSIONS PRIOR TO ORDERING RESTROOM PARTITIONS. ACCURATE MEASUREMENTS ARE CRITICAL TO ENSURE PROPER FIT AND INSTALLATION.



MEN'S RESTROOM #306 ENLARGED PLAN 4
1/2" = 1'-0"



BREAKROOM #305 ENLARGED PLAN 1
1/2" = 1'-0"

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

LEGEND

- 0 — GRID LINE
- 101a — DOOR TAG
- # — WINDOW TAG
- # — ACCESSORY TAG

REGISTERED ARCHITECT JERRY TIPTS 19755 STATE OF TEXAS
10/22/2025

Heights Venture
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:12:58 PM

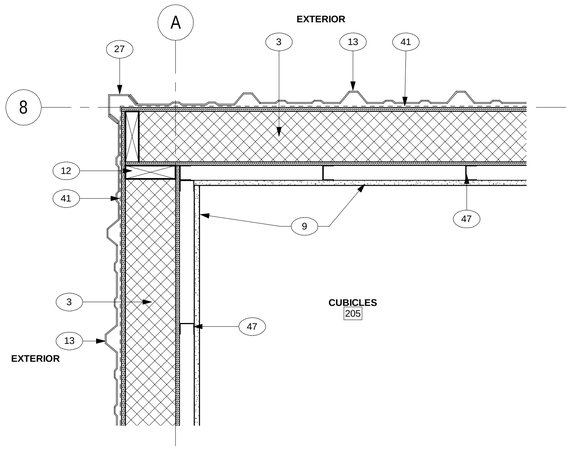
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG B"
RESTROOMS &
BREAKROOM
ENLARGED PLANS

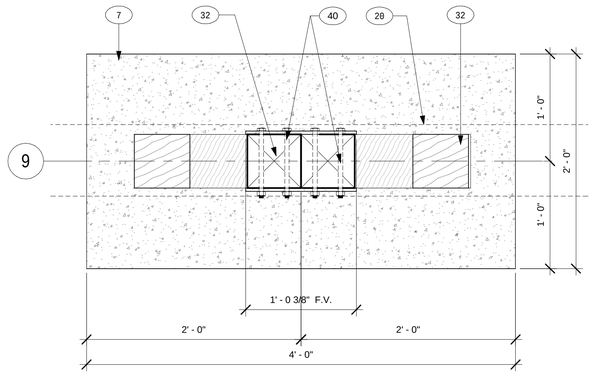
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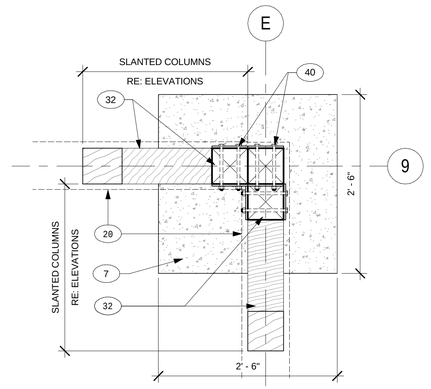
EXTERIOR PLAN DETAIL 9

1 1/2" = 1'-0"



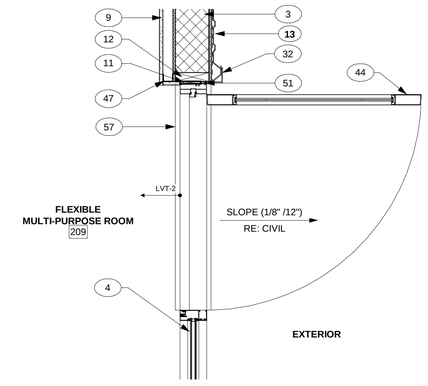
EXTERIOR PLAN DETAIL 6

1 1/2" = 1'-0"



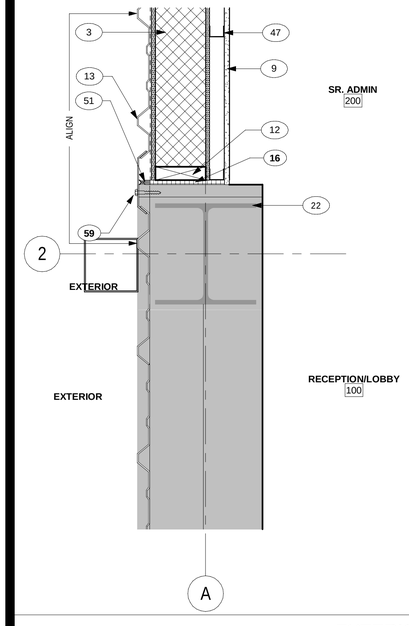
EXTERIOR PLAN DETAIL 3

1" = 1'-0"



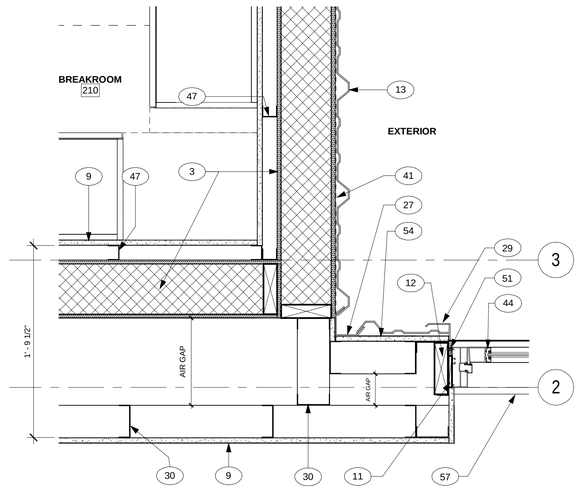
EXTERIOR PLAN DETAIL 2

1" = 1'-0"



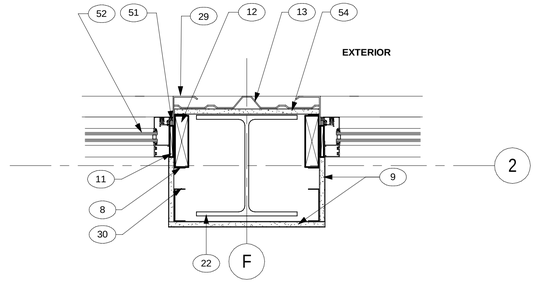
EXTERIOR PLAN DETAIL 7

1 1/2" = 1'-0"



EXTERIOR PLAN DETAIL 4

1 1/2" = 1'-0"



EXTERIOR PLAN DETAIL 1

1 1/2" = 1'-0"

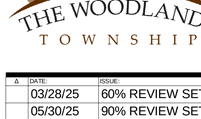
NOTES TO SHEET

(#) = KEYED NOTES

1. 6" CHAMCLAD BY CHAMELEON, PVC PANEL. ON EXTERIOR FLUID APPLIED WEATHER BARRIER AND SIPS SYSTEM, RE: FINISH SCHEDULE, SIPS SYSTEM INFORMATION AND SPECS.
2. 7 1/2" ROOF SIPS SYSTEM PANELS, RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
3. 6 1/2" WALL SIPS SYSTEM, RE: DEFERRED SIPS SYSTEM, INSTALLATION & SPECS.
4. ALUMINUM STOREFRONT SYSTEM, WITH SILL FLASHING MEMBER SET IN CONTINUOUS BED OF MASTIC & BACKPLATES AT JAMBS.
5. BUILDING ISOLATION JOINT, RE: STRUCTURAL.
6. CONCRETE SIDEWALK, & LANDSCAPE, RE: CIVIL .
7. CONCRETE BUILDING FOUNDATION OR PIER CAP OR GRADE BEAM, RE: STRUCTURAL.
8. 6" METAL STUD AT 16" O.C.
9. 5/8" GYP. BD. SHEATHING TYP "X" ON METAL STUD, RE: FINISH SCHED.
10. 1/2" WIDE POLYURETHANE SEALANT WITH BACKER ROD FOR DEPTHS GREATER THAN 1/2". (MATCH EXISTING WALL PAINT).
11. WOOD SHIM.
12. 2X WOOD BLOCKING.
13. METAL WALL PANEL SYSTEM, RE: FINISH SCHEDULE & SPECS.
14. 3/4" EXTERIOR GRADE PLYWOOD SHEATHING.
15. CONCRETE SLAB, RE: STRUCTURAL
16. JOINT FILLER BOARD, RE: SPECS.
17. JOHNSONITE LS40 12" FLOOR LEVEL.
18. SCHEDULED BATT INSULATION - WIRE TIE IN PLACE.
19. SCHEDULED ACOUSTICAL TILE & GRID, RE: FINISH SCHEDULE.
20. 8"X20" PARALAM BEAM, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
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THE WOODLANDS TOWNSHIP

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:42:34 PM

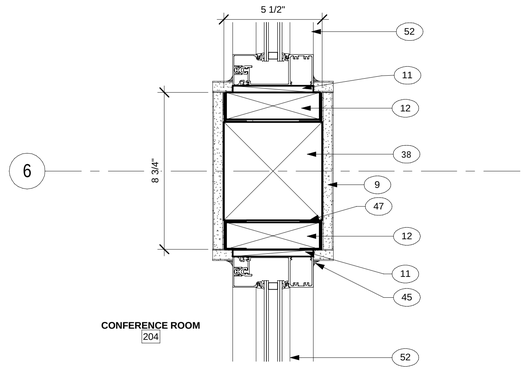
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RW/AV	JT/RM

Project Phase: PERMIT ISSUE

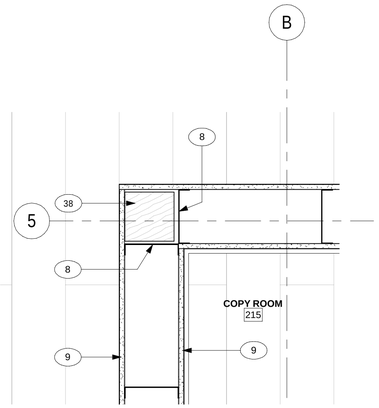
"BLDG A & C" PLAN DETAILS

A501

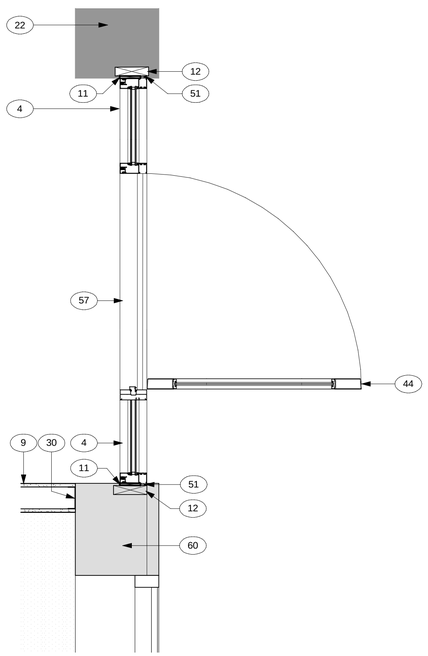
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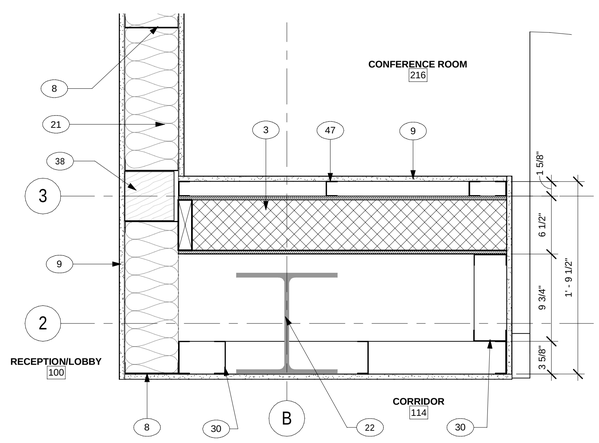
INTERIOR PLAN DETAIL
3" = 1'-0"
9



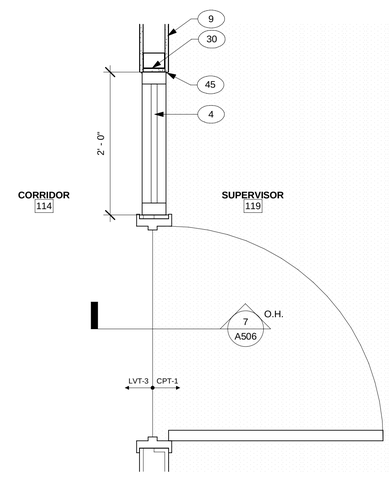
INTERIOR PLAN DETAIL
1 1/2" = 1'-0"
8



"BLDG B" EXTERIOR PLAN DETAIL
1" = 1'-0"
2



INTERIOR PLAN DETAIL
1 1/2" = 1'-0"
7



INTERIOR PLAN DETAIL
1" = 1'-0"
1

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REGISTERED ARCHITECT JERRY TIPTON 18735 STATE OF TEXAS

10/22/2025

Heights Venture
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Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
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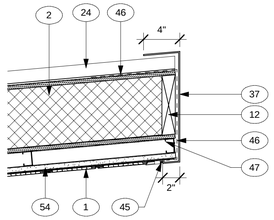
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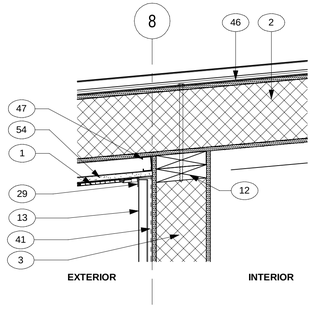
"BLDG A & C" PLAN DETAILS

A502

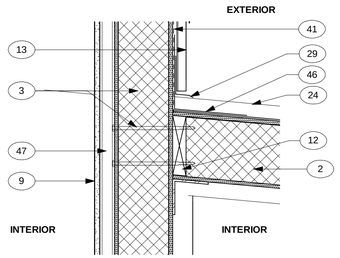
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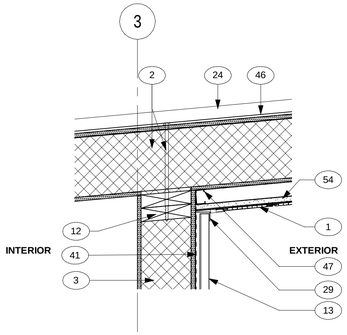
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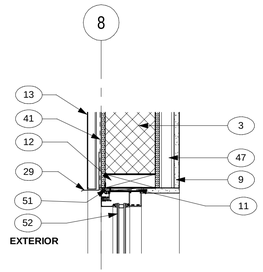
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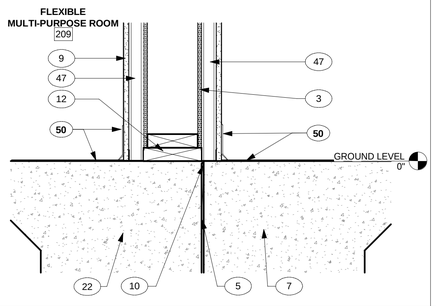
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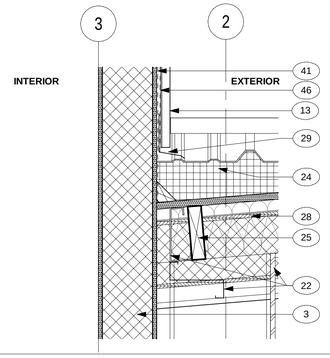
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RE: 4/A401 | 1 1/2" = 1'-0"



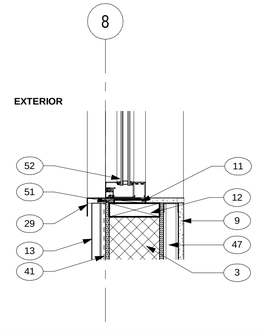
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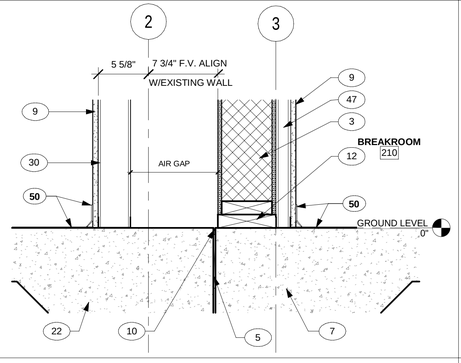
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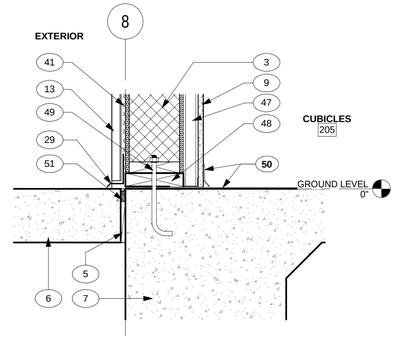
DETAIL 6
RE: 4/A401 | 1 1/2" = 1'-0"



DETAIL 2
RE: 1/A401 | 1 1/2" = 1'-0"



DETAIL 9
RE: 10/A401 | 1 1/2" = 1'-0"



DETAIL 1
RE: 1/A401 | 1 1/2" = 1'-0"

NOTES TO SHEET

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3. 6 1/2" WALL SIPS SYSTEM, RE: DEFERRED SIPS SYSTEM, INSTALLATION & SPECS.
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6. CONCRETE SIDEWALK, & LANDSCAPE, RE: CIVIL .
7. CONCRETE BUILDING FOUNDATION OR PIER CAP OR GRADE BEAM, RE: STRUCTURAL.
8. 6" METAL STUD AT 16" O.C.
9. 5/8" GYP. BD. SHEATHING TYP "X" ON METAL STUD, RE: FINISH SCHED
10. 1/2" WIDE POLYURETHANE SEALANT WITH BACKER ROD FOR DEPTHS GREATER THAN 1/2". (MATCH EXISTING WALL PAINT).
11. WOOD SHIM.
12. 2X WOOD BLOCKING.
13. METAL WALL PANEL SYSTEM, RE: FINISH SCHEDULE & SPECS.
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16. JOINT FILLER BOARD, RE: SPECS.
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19. SCHEDULED ACOUSTICAL TILE & GRID, RE: FINISH SCHEDULE.
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29. METAL FLASHING.
30. 3 5/8" METAL STUD @ 16" O.C.
31. BASE AND TOP STEEL METAL PLATES, W/BOLTS, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
32. 6"X6" ENGINEERING EXTERIOR WOOD COLUMNS, RE: RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
33. 8"X20" ENGINEERING EXTERIOR GLULAM WOOD BEAM, RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
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58. JOINT FILLER.
59. METAL PANEL COVER PLATE, RE: FINISH SCHED. & SPECS.
60. INFILL TO MATCH EXISTING CONDITIONS

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPTS 18755 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:15:19 PM

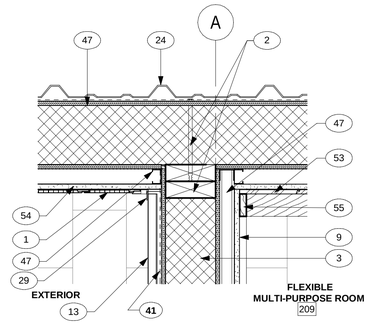
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C"
DETAILS

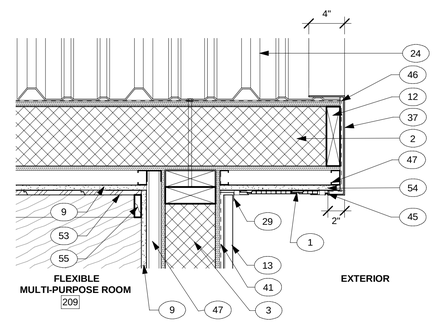
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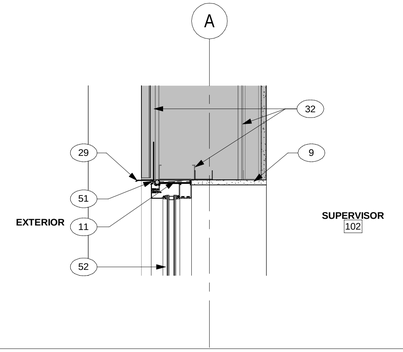
ROOF WALL DETAIL 12

RE: 2/A403 | 1 1/2" = 1'-0"



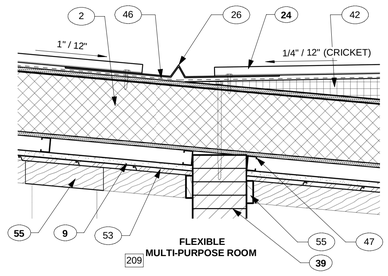
ROOF/WALL DETAIL 8

RE: 1/A403 | 1 1/2" = 1'-0"



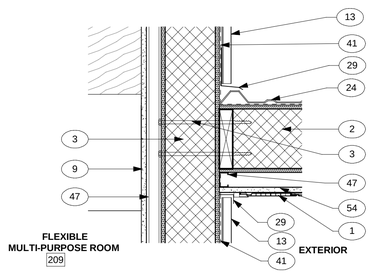
DETAIL @ EXIST. WALL & NEW WINDOW 4

RE: 4/A402 | 1 1/2" = 1'-0"



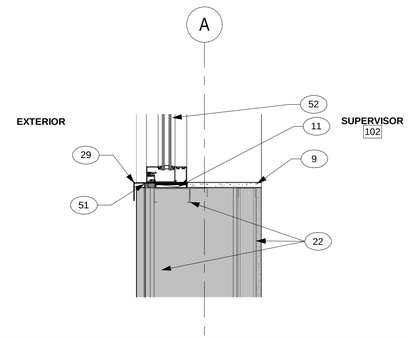
ROOF CRICKET DETAIL 11

RE: 1/A402 | 1 1/2" = 1'-0"



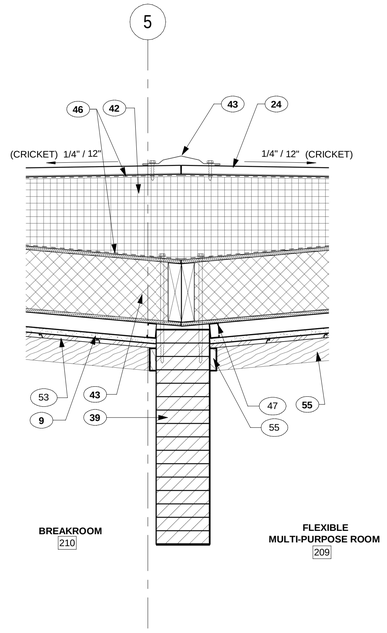
DETAIL @ WALL/ROOF CONNECTION 7

RE: 1/A403 | 1 1/2" = 1'-0"



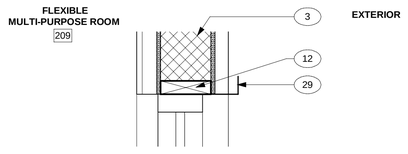
DETAIL @ EXIST. WALL & NEW WINDOW 3

RE: 4/A402 | 1 1/2" = 1'-0"



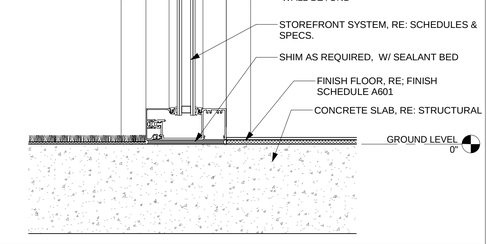
ROOF CRICKET DETAIL 9

RE: 2/A302 | 1 1/2" = 1'-0"



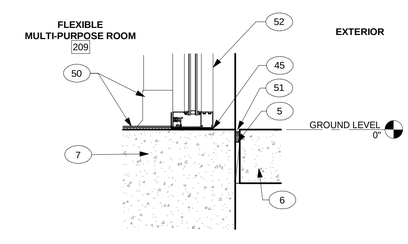
DETAIL @ STOREFRONT HEAD 6

RE: 1/A403 | 1 1/2" = 1'-0"



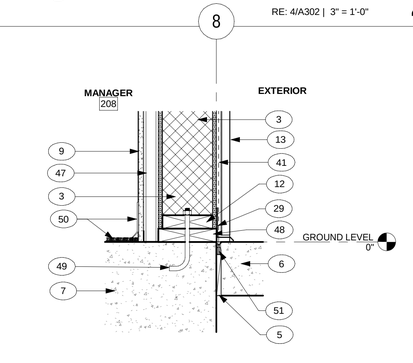
DETAIL @ INT. STOREFRONT SYSTEM SILL 2

RE: 4/A302 | 3" = 1'-0"



DETAIL @ STOREFRONT SILL 5

RE: 1/A403 | 1 1/2" = 1'-0"



SIPS WALL DETAIL 1

RE: 3/A402 | 1 1/2" = 1'-0"

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THE WOODLANDS TOWNSHIP

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	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPTS 19755 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:15:48 PM

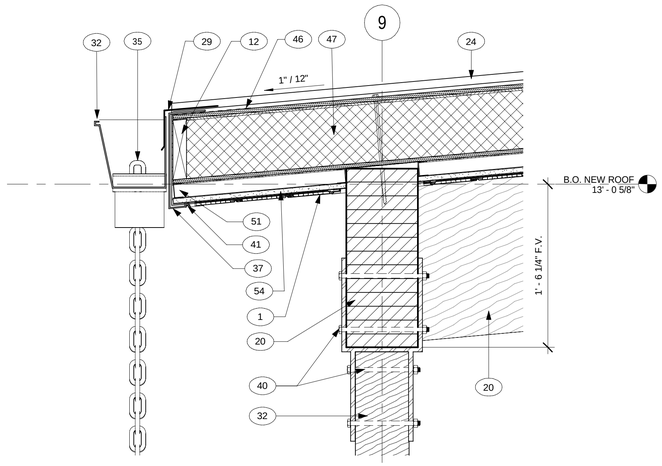
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" DETAILS

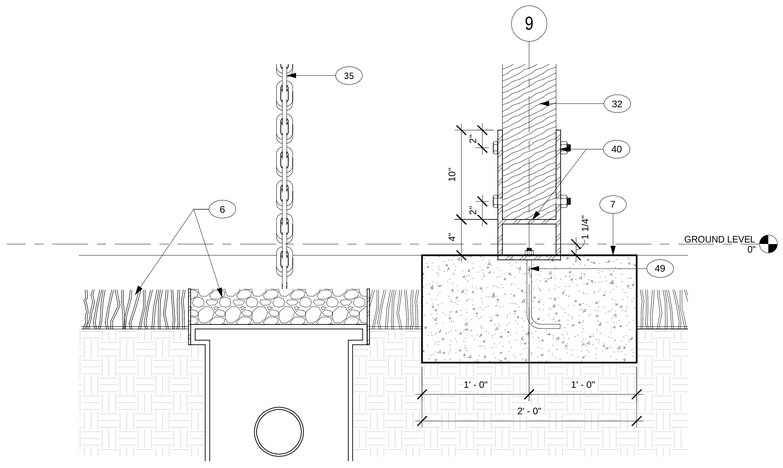
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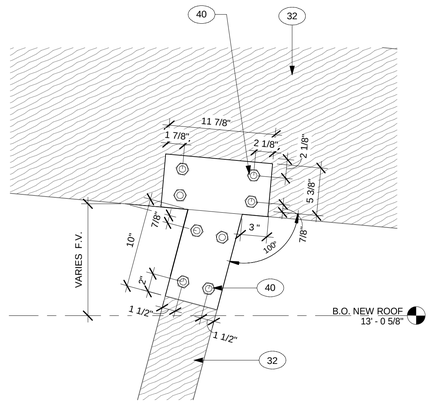
DETAIL @ EXT. WOOD TOP COLUMN 9

RE: 4/A403 | 1 1/2" = 1'-0"



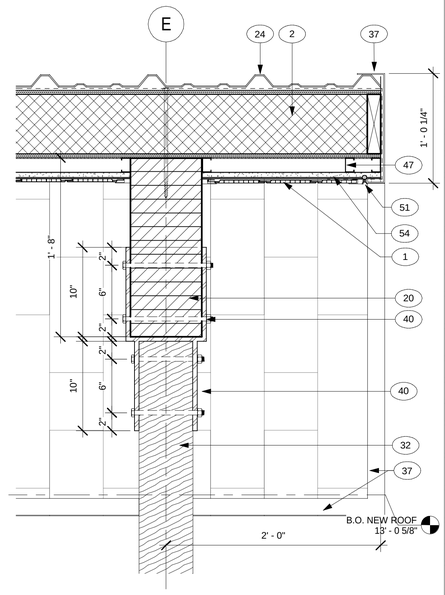
DETAIL @ EXT. WOOD BASE COLUMN 8

RE: 4/A403 | 1 1/2" = 1'-0"



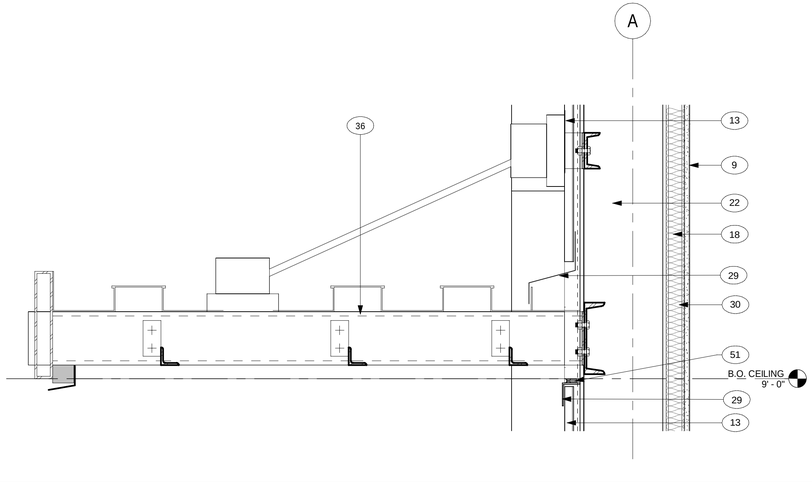
DETAIL @ EXT. WOOD TOP COLUMN 5

RE: 2/A110 | 1 1/2" = 1'-0"



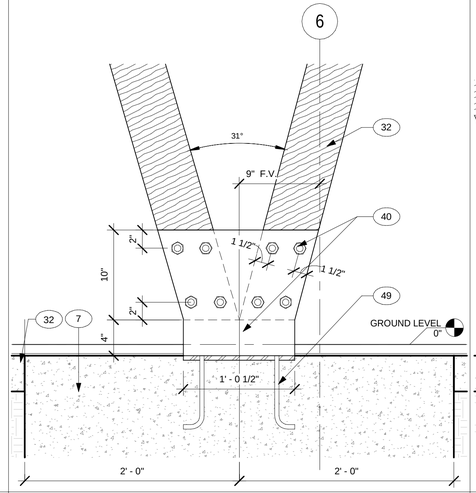
DETAIL @ EXT. WOOD COLUMNS & BEAM 2

RE: 3/A403 | 1 1/2" = 1'-0"



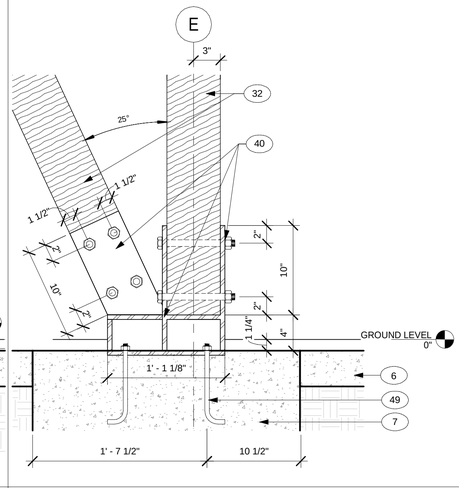
PREFABRICATED CANOPY DETAIL 7

RE: 4/A402 | 1 1/2" = 1'-0"



DETAIL @ EXT. WOOD BASE COLUMN 4

RE: 3/A110 | 1 1/2" = 1'-0"



DETAIL @ EXT. WOOD COLUMN BASE 1

RE: 2/A110 | 1 1/2" = 1'-0"

NOTES TO SHEET (#) = KEYED NOTES

1. 6" CHAMCLAD BY CHAMELEON, PVC PANEL, ON EXTERIOR FLUID APPLIED WEATHER BARRIER AND SIPS SYSTEM, RE: FINISH SCHEDULE, SIPS SYSTEM INFORMATION AND SPECS.
2. 7 1/2" ROOF SIPS SYSTEM PANELS, RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
3. 6 1/2" WALL SIPS SYSTEM, RE: DEFERRED SIPS SYSTEM, INSTALLATION & SPECS.
4. ALUMINUM STOREFRONT SYSTEM, WITH SILL FLASHING MEMBER SET IN CONTINUOUS BED OF MASTIC & BACKPLATES AT JAMBS.
5. BUILDING ISOLATION JOINT, RE: STRUCTURAL.
6. CONCRETE SIDEWALK, & LANDSCAPE, RE: CIVIL .
7. CONCRETE BUILDING FOUNDATION OR PIER CAP OR GRADE BEAM, RE: STRUCTURAL.
8. 6" METAL STUD AT 16" O.C.
9. 5/8" GYP. BD. SHEATHING TYP "X" ON METAL STUD, RE: FINISH SCHED.
10. 1/2" WIDE POLYURETHANE SEALANT WITH BACKER ROD FOR DEPTHS GREATER THAN 1/2". (MATCH EXISTING WALL PAINT).
11. WOOD SHIM.
12. 2X WOOD BLOCKING.
13. METAL WALL PANEL SYSTEM, RE: FINISH SCHEDULE & SPECS.
14. 3/4" EXTERIOR GRADE PLYWOOD SHEATHING.
15. CONCRETE SLAB, RE: STRUCTURAL
16. JOINT FILLER BOARD, RE: SPECS.
17. JOHNSONITE LS40 12" FLOOR LEVEL.
18. SCHEDULED BATT INSULATION - WIRE TIE IN PLACE.
19. SCHEDULED ACOUSTICAL TILE & GRID, RE: FINISH SCHEDULE.
20. 8"X20" PARALAM BEAM, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
21. BATT INSULATION.
22. EXISTING STRUCTURE, STEEL COLUMNS & MEMBERS
23. METAL ROOF SYSTEM W/ROOF UNDERLAYMENT, 3/4" CDX PLYWOOD, COVER BD., & RIGID INSULATION. MATCH EXISTING PAINT COLOR & INSTALL ACCORDING MANUFACTURER INSTRUCTIONS, RE:SPECS.
24. METAL ROOF SYSTEM W/ROOF UNDERLAYMENT OVER SIPS ROOF PANELS SYSTEM. MATCH EXISTING PAINT COLOR & INSTALL ACCORDING MANUFACTURER INSTRUCTIONS, RE: SPECS.
25. 2X6 WOOD STUD @ 24" O.C.
26. PREFORMED METAL FLASHING WITH V-CRIMP AND DOUBLE UNDERLAYMENT AT VALLEY, INSTALL ACCORDING MFR. INSTRUCT.
27. OUTSIDE/INSIDE METAL CORNER TRIM, INSTALL ACCORDING MANUFACTURER INSTRUCTIONS.
28. EXISTING METAL ROOF PANEL & INSULATION SYSTEM.
29. METAL FLASHING.
30. 3 5/8" METAL STUD @ 16" O.C.
31. BASE AND TOP STEEL METAL PLATES, W/BOLTS, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
32. 6"X6" ENGINEERING EXTERIOR WOOD COLUMNS, RE: RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
33. 8"X20" ENGINEERING EXTERIOR GLULAM WOOD BEAM, RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
34. GALV. GUTTERS & DOWNSPOUT, MATCH EXISTING, RE: SPECS.
35. 14'-0" COPPER RAIN CHAIN (DOWNSPOUT) W/INLET, RE: CIVIL.
36. 6" PREFABRICATED ALUMINUM CANOPY WITH DRAINS OUTLETS WITH DIVERTER AWAY FROM STOREFRONT, RE: SPECS.
37. PERIMETER ROOF BREAK METAL PANEL.
38. 5 1/2"X5 1/2" INTERIOR ENGINEERING WOOD COLUMN, RE: DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
39. INTERIOR 6"X24" GLULAM WD. BEAM, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
40. METAL STEEL PLATE & BOLTS, RE:DEFERRED SIPS SYSTEMS, INSTALLATION & SPEC'S.
41. LIQUID APPLIED WEATHER BARRIER (LA-WRB) SYSTEM. STO GOLD AND STO GREEN, OR APPROVED EQUAL PER MANUFACTURER INSTALLATION REQUIREMENTS. LAP FLASHING BEHIND ALL SCHEDULED FINISHES.
42. RIGID PANEL INSULATION, RE: SPECS.
43. METAL RIDGE CAP, INSTALL ACCORDING MFR. INSTRUCTIONS.
44. ALUMINUM STOREFRONT DOOR SYSTEM, RE: DOOR SCHEDULE.
45. SEALANT.
46. THERMAL POLYOLEFIN MEMBRANE (TPO) - 60 MILL PARAPET WALL MEMBRANE WITH 20 YEAR NDL WARRANTY, EXTEND MEMBRANE 8" UP & DOWN THE WALL AND ROOF, RE: SPECS.
47. 1 5/8" METAL STUD. @ 16" O.C.
48. 2X TREATED BOTTOM PLATE, RE: SIP SYSTEM & SPECS.
49. J-ANCHOR BOLT AS REQUIRED BY CODE, RE: STRUCTURAL.
50. SCHEDULE BASE & FLOOR, RE: FINISH SCHEDULE.
51. BACKER ROD & SEAL.
52. ALUMINUM STOREFRONT WINDOW SYSTEM, WITH SILL FLASHING MEMBER SET IN CONTINUOUS BED OF MASTIC & BACKPLATES AT JAMBS, RE: WINDOWS SCHEDULE.
53. ARMSTRONG CEILING - 5" X 84" X 3/8" WOODHAVEN 1264 WEATHERED, INSTALL ACCORDING MANUFACTURER INSTRUCTIONS, RE: FINISH SCHEDULE.
54. 5/8" DENSELEMET EXTERIOR SHEETING.
55. 1X3 WOOD TRIM.
56. 1/4" EXPANSION JOINT BETWEEN FOOTINGS, RE: STRUCTURAL.
57. ALUMINUM THRESHOLD SET IN SEAL BED.
58. JOINT FILLER.
59. METAL PANEL COVER PLATE, RE: FINISH SCHED. & SPECS.
60. INFILL TO MATCH EXISTING CONDITIONS

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

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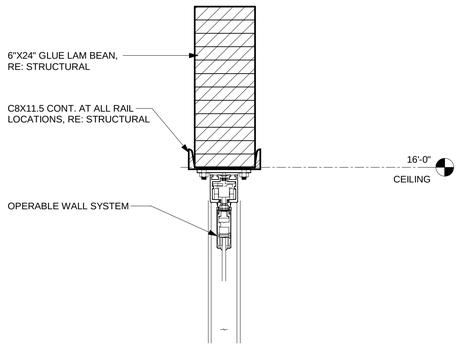
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" DETAILS

A505

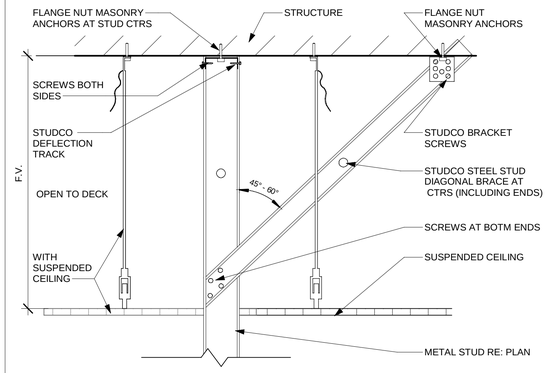
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NOTE: OPERABLE PARTITION, INSTALLED ACCORDING MFR. INSTRUCTIONS, RE: DOOR SCHEDULE SHEET A6.1 AND STRUCTURAL PLANS.

DETAIL @ HEAD OF OPERABLE WALL SYSTEM 12

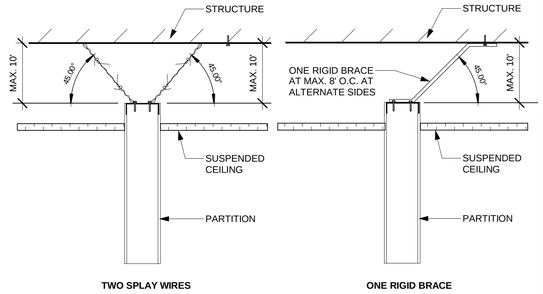
1 1/2" = 1'-0"



DEFLECTION TRACK

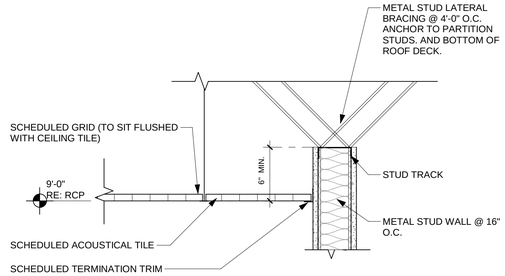
SUSPENDED BULKHEAD CEILING DETAIL 9

1 1/2" = 1'-0"



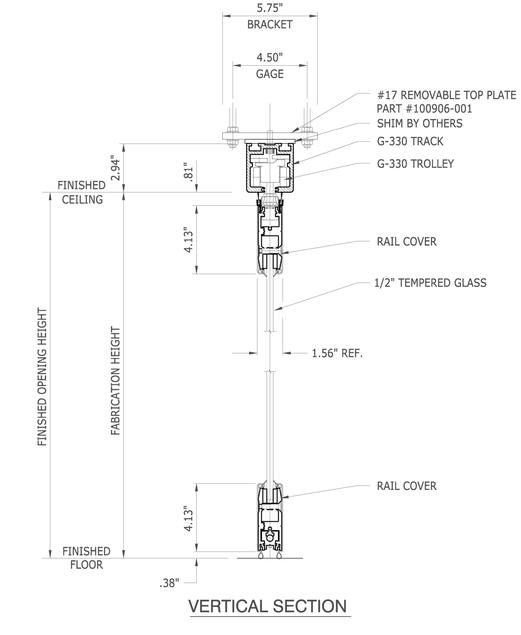
METAL STUD LATERAL BRACING TO THE STRUCT. 6

1 1/2" = 1'-0"



TYP. CEILING TILE & GRID DETAIL 3

1 1/2" = 1'-0"

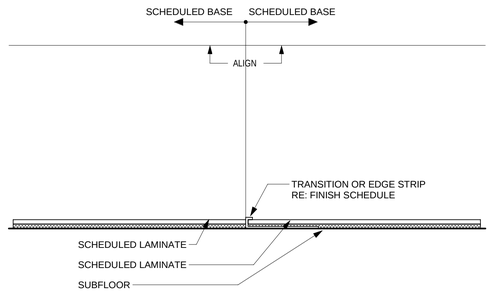


VERTICAL SECTION

NOTE: OPERABLE PARTITION, INSTALLED ACCORDING MFR. INSTRUCTIONS, RE: DOOR SCHEDULE SHEET A601 AND STRUCTURAL PLANS

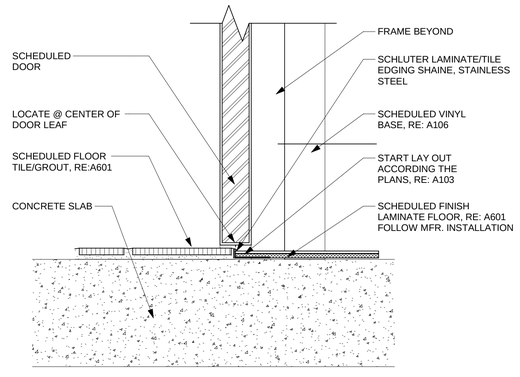
SECTION DETAL OF OPERABLE PARTITION WALL 10

1/4" = 1'-0"



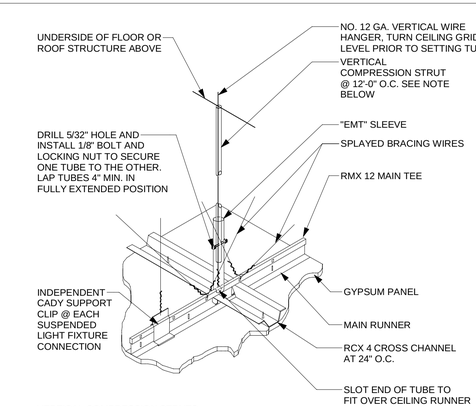
BASE DETAIL @ CARPET TO LVT TRANSITION 8

6" = 1'-0"



TRANSITION TILE/LAMINATE DOOR DETAIL 5

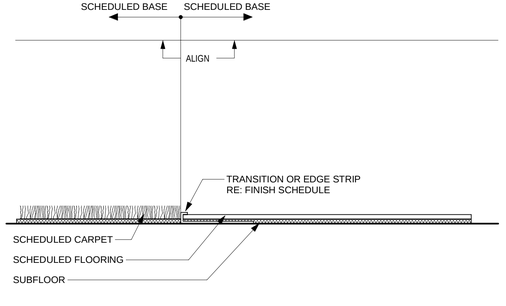
3" = 1'-0"



VERTICAL COMPRESSION STRUTS
1. UP TO 8'-0" USE 1- 3 5/8" 25 GA. MTL. STUD @ 12' 0.C.
2. 8'-0" TO 10'-0" USE 2- 1 5/8" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTENED BACK TO BACK AT EA. SIDE OF MAIN RUNNER, TYP.
3. 10'-0" TO 15'-0" USE 2- 2 1/2" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTEN SAME AS NOTE #2 ABOVE
4. ALTERNATE: UP TO 5'-0" USE 3/4"ø EMT CONDUIT

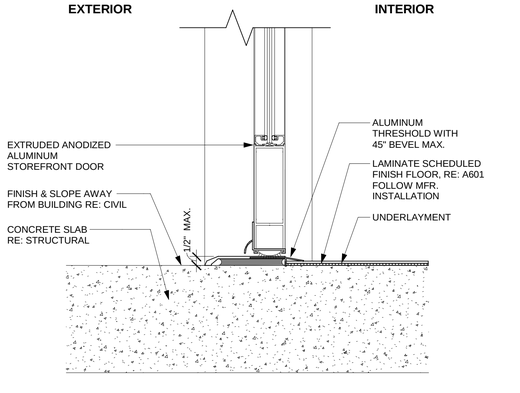
TYP. SUSPENDED GYPSUM BOARD ASSEMBLY 2

1 1/2" = 1'-0"



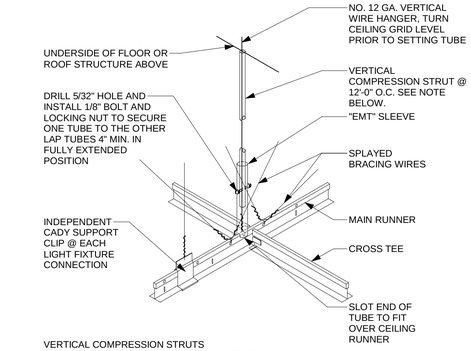
BASE DETAIL @ CARPET TO LVT TRANSITION 7

6" = 1'-0"



EXTERIOR ENTRANCE FLOOR TRANSITION DETAIL 4

3" = 1'-0"



VERTICAL COMPRESSION STRUTS
1. UP TO 8'-0" USE 1- 3 5/8" 25 GA. MTL. STUD @ 12' 0.C.
2. 8'-0" TO 10'-0" USE 2- 1 5/8" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTENED BACK TO BACK AT EA. SIDE OF MAIN RUNNER, TYP.
3. 10'-0" TO 15'-0" USE 2- 2 1/2" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTEN SAME AS NOTE #2 ABOVE
4. ALTERNATE: UP TO 5'-0" USE 3/4"ø EMT CONDUIT

TYP. SUSPENDED CEILING GRID SYSTEM 1

1 1/2" = 1'-0"

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERMY TIPPS 18786 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

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RW/AV	JT/RM

Project Phase: PERMIT ISSUE

DETAILS

A506

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FINISH SCHEDULE BLDG. A-C & B

CODE	MATERIAL	MANUFACTURER	PRODUCT INFORMATION	SIZE	REMARKS
CEILING FINISHES					
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA HEALTH ZONE AIR ASSURE	2' x 2' x 1"	INSTALL PER MANUFACTURES INSTRUCTIONS
GYP-1	GYPSUM BOARD				TO BE PAINTED WITH PT-1
WC-1	WOOD CEILING, PLANKS, PANELS LINEAR VENEERED CLOSED	ARMSTRONG	WOODWORKS - VENEER WOOD A-PS WHITE OAK (091025 - 1 GLOSS: 15-25 %)	6" X 96"	MULTI PURPOSE AND BREAKROOM SLANTED CEILING FINISH. ASTM E84 (CLASS A FIRE PERFORMANCE)
EXTERIOR FINISHES					
A	ANODIZED ALUMINUM	KAWNEER - STOREFRONT/WINDOW SYSTEM U.N.O.	DARK BRONZE NO. 40	2" W X 4 1/2" D	INSTALL PER MANUFACTURER INSTRUCTIONS
B	METAL	BERRIDGE - WALL SHEET PANEL U.N.O.	MATCH EXISTING PANEL SIZE, TYPE & PAINT COLOR	12" W. (FIELD VERIFY)	
C	METAL	BERRIDGE, ROOF SHEET PANEL SYSTEM, U.N.O.	MATCH EXISTING PANEL SIZE, TYPE & PAINT COLOR	(FIELD VERIFY)	
D	PVC	CHAMCLAD - WALL PANEL & TRIM SYSTEM	ROCKY MOUNTAIN OAK 7080	6"	INSTALL PER MANUFACTURER INSTRUCTIONS
E	ALUMINUM (COORDINATE W/OWNER/ARCHITECT PAINT COLOR)	AVADEK OR APPROVED EQUAL	CANOPY PREFINISHED POWDER COATED	REVIEW FLOOR PLAN FOR SIZE	INSTALL PER MANUFACTURER INSTRUCTIONS
FLOOR FINISHES					
CPT-1	CARPET	TARKETT	11663 TUNDRA FLOWER, 65401 NEW FRONTIER	24" x 24"	USED IN ROOMS IN THE 100 SERIES, UNLESS NOTED OTHERWISE. REFER TO A103
CPT-2	CARPET	TARKETT	11661 SKY ATLAS, 65401 NEW FRONTIER	24" x 24"	USED IN ROOMS IN THE 200 SERIES, UNLESS NOTED OTHERWISE. REFER TO A103
CPT-3	CARPET	TARKETT	11661 SKY ATLAS, 65402 STREAMSIDE	24" x 24"	USED IN CONFERENCE ROOM #204 & #216 PLUS MOM ROOM #111. REFER TO A103
CPT-4	CARPET	TARKETT	11816 TRANSCEND EDIT, 56401 SPEECHLESS	24" x 24"	USED IN ROOMS IN THE 300 SERIES, UNLESS NOTED OTHEREWISE. REFER TO A108
LVT-1	LUXURY VINYL TILE	TARKETT	PCAV NATIVE SOAPSTONE, 4649 MOONLIT CHARCOAL	12" x 36"	USED AT RECEPTION/LOBBY IN BLDG A & C. REFER TO A103
LVT-2	LUXURY VINYL TILE	TARKETT	ID LATITUDE STONE, PLST 7242 HEARTHSTONE	12" x 36"	USED IN FLEXIBLE MULTI-PURPOSE ROOM #209 AND BREAKROOM #210. REFER TO A103
LVT-3	LUXURY VINYL TILE	TARKETT	PEHP HERITAGE PLANK, 11222 WINDSOR	6" x 48"	USED IN CORRIDORS AND ROOMS OPEN TO CORRIDORS IN BLDG A & C. REFER TO A103
LVT-4	LUXURY VINYL TILE	TARKETT	PEHP HERITAGE PLANK, 11221 SADDLE GREY	6" x 48"	USED AT ENTRY AND OPEN AREAS IN BLDG B. REFER TO A108
T-1	TILE	DALTILE	REMINISCENT, RECLAIMED GRAY, MATTE	12" x 24" x 5/16"	USED IN RESTROOM ON THE FLOOR, PAIRED WITH G-1
GROUT FINISHES					
G-1	GROUT	DALTILE	CUSTOM #335 WINTER GRAY		FLOOR GROUT IN RESTROOMS, PAIRED WITH T-1
G-2	GROUT	MAPEI	5107 IRON		WALL GROUT IN RESTROOMS, PAIRED WITH T-2
G-3	GROUT	LATICRETE	PERMACOLOR SILVER SHADOW		BACKSPLASH GROUT IN KITCHEN IN BETWEEN WALL AND FLOOR CABINETS, PAIRED WITH T-3
LAMINATE FINISHES					
L-2	LAMINATE	WILSONART	BLACK, #60 MATTE		FOR ALL WOODEN DOORS, RE: DOOR SCHEDULE
MILLWORK FINISHES					
-		TOP KNOBS	NOUVEAU, SQUARE BAR PULL, FLAT BLACK	8 13/16" + 6 5/16"	MILLWORK CABINETS KNOBS, ONLY ONE 6 5/16" THE REST ARE 8 13/16". RE: CABINETRY SCHEDULE
L-1	LAMINATE	WILSONART	WALNUT PB MELLOW #8278K-05, TIMBERGRAIN FINISH		MILLWORK CABINETS
SS-1		LX HAUSYS	AURORA ASH M609, AURORA COLLECTION		FOR RESTROOM COUNTERS
SS-2		LX HAUSYS	SANREMO M605, AURORA COLLECTION		FOR BREAKROOM COUNTERS
T-3	CERAMIC	TILEBAR	SUBWAY, LOS LUNAS GREEN, POLISHED CERAMIC	4" X 12"	BACKSPLASH IN BREAKROOMS IN BETWEEN WALL AND FLOOR CABINETS, PAIRED WITH G-3
TRANSITIONS					
TR-1	RUBBER	TARKETT	MET02 - METALEDGE DEUX TRIM, 00179 - STEEL		INSTALL PER MANUFACTURER'S INSTRUCTIONS, U.N.O.
WALL BASE FINISHES					
B-1	RUBBER BASE	JOHNSONITE	40 BLACK B	4" HIGH	USED IN BLDG A & C, UNLESS NOTED OTHERWISE. REFER TO A103
B-2	RUBBER BASE	JOHNSONITE	63 BURNT UMBER B	4" HIGH	USED IN BLDG B, UNLESS NOTED OTHERWISE. REFER TO A108
B-4	TILE BASE	DALTILE			USED IN RESTROOMS ONLY
WALL FINISHES					
FRP	WALL COVERING	MARLITE	FRP - COLOR S100 WHITE (CLASS C & A - FIRE RATING)		INSTALL PER MANUFACTURES INSTRUCTIONS
PT-1	PAINT	SW	SW7004 SNOWBOUND		ALL INTERIOR WALLS U.N.O OR NOT NOTED
PT-2	PAINT	SW	SW2839 ROYCROFT COPPER RED		PAINT FOR WAINSCOT IN ROOM #308
T-2	TILE	DALTILE	SCRIPTER, REBEL, MATTE	24" x 24" x 5/16"	USED IN RESTROOM ON THE WALL, PAIRED WITH G-2
GLAZING					

FINISH MANUFACTURER CONTACTS

LIGHTING CONSULTANT:
PETERSON SHARCK & ASSOCIATES
CONTACT: DAVID WAGNER
713-664-7111
DWAGNER@PSALIGHTING.COM

LAMINATE:
WILSONART
CONTACT: EMILY MERCER
945-536-1040
EMILY.MERCER@WILSONART.COM

COUNTERTOPS:
LX HAUSYS
CONTACT: ALISON CHRISTIAN
979-588-4345
ACHRISTIAN@LXHAUSYS.COM

EXTERIOR SOFFIT:
CHAMCLAD
CONTACT: KARA POKORNY
713-504-8082
KARA@PKYRESOURCES.COM

ALL TARKETT AND JOHNSONITE PRODUCTS:
TARKETT
CONTACT: JESSICA HAMPTON
281-254-5844
JESSICA.HAMPTON@TARKETT.COM

TOP KNOBS:
ELEGANT ADDITIONS
CONTACT: MELISSA CASTANO
713.522.0088
MELISSAC@ELEGANTADDITIONS.NET

RESTROOM ACCESSORY AND PLUMBING FIXTURE SCHEDULE BLDG. A-C & B

MARK	ACCESSORY	MANUFACTURER	MODEL	FINISH	REMARKS
1	MADERA™ FLOWISE® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET	AMERICAN STANDARD	3043.001	WHITE	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
2	MANUAL FLOWISE® TOILET FLUSH VALVE	AMERICAN STANDARD	6047.121.002	CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
3	MAYBROOK® UNIVERSAL URINAL	AMERICAN STANDARD	6581.001	WHITE	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
4	STUDIO™ UNDERCOUNTER SINK	AMERICAN STANDARD	0614.000	WHITE	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
5	SERIN® SINGLE CONTROL LAVATORY FAUCET	AMERICAN STANDARD	2064.101	POLISHED CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
6	COMMERCIAL RESTROOM MIRROR, ANGLE FRAME, 54" W X 36" H	BRADLEY	780-054360	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
7	EZ FILL™ TOP-FILL, MULTI-FEED LIQUID SOAP DISPENSER HEADS	AMERICAN STANDARD	#0390-(N)	CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
8	ULTIMA MANUAL URINAL FLUSH VALVE PISTON-TYPE	AMERICAN STANDARD	6045101.002	CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
9	STAINLESS STEEL CHANNEL FRAME MIRROR, 24" WIDE X 36" HIGH	ASI	0620	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
10	MEENA™ SINGLE-HANDLE LAVATORY FAUCET	MOEN	84794	CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
11	1-1/4" BRASS P-TRAP	WS BATH COLLECTIONS	WSBC 53921.29	POLISHED CHROME	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O., WRAP IN TAS COMPLIANT UNDERSINK PIPING PROTECTION
12	WALL-MOUNT RECTANGULAR MODERN BATHROOM SINK	WS BATH COLLECTIONS	UNLIMITED 60.01 WG	GLOSSY WHITE	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
13	POP-UP DRAIN	KARRAN	PUOF25C	STAINLESS STEEL	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
14	42" LENGTH COMMERCIAL GRAB BAR, 1-1/4" DIAMETER, EXPOSED-MOUNTED	ASI	3401-42	STAINLESS STEEL	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
15	36" LENGTH COMMERCIAL GRAB BAR, 1-1/4" DIAMETER, EXPOSED-MOUNTED	ASI	3401-36	STAINLESS STEEL	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
16	SIMPLICITY COLLECTION PAPER TOWEL DISPENSER & WASTE RECEPTACLE – RECESSED	ASI	6467	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
17	SURFACE-MOUNTED TOILET TISSUE DISPENSER AND UTILITY SHELF	BOBRICK	B-2840	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
18	COMMERCIAL TOILET SEAT COVER DISPENSER, RECESSED-MOUNTED	ASI	0477	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
19	DURA LINE SERIES® CGL STANDARD	BOBRICK	1180 SERIES	CELLO 0811-FH	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O., LEAD TIME ITEM
20	EVOLVE SCREENS	BOBRICK	EVOLVE	CELLO 0811-FH	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O., LEAD TIME ITEM
21	SOAP DISPENSER – AUTOMATIC – 35 OZ. – STAINLESS STEEL – SURFACE MOUNTED	AMERICAN STANDARD	#0360	STAINLESS STEEL SATIN	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.

KITCHEN ACCESSORIES & PLUMBING FIXTURE SCHEDULE BLDG. A-C & B

MARK	ACCESSORY	MANUFACTURER	MODEL	FINISH	REMARKS
1	CAIRN® UNDER-MOUNT KITCHEN SINK	KOHLER	K-28000-CM1	MATTE BLACK	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
2	DUOSTRAINER® SINK DRAIN AND STRAINER WITH TAILPIECE	KOHLER	K-8801	MATTE BLACK	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
3	CRUE™ PULL-DOWN SINGLE-HANDLE KITCHEN FAUCET	KOHLER	K-22972	MATTE BLACK	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
4	TOUCHLESS AUTOMATIC LIQUID SOAP DISPENSER	PZOTRUF	YM-201	SILVER	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
5	5-IN-1 MICROWAVE OVEN	BLACK+DECKER	ES9P032NA	BLACK	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
6	CRISP 'N BAKE™ 6-SLICE DIGITAL AIR FRY TOASTER OVEN	BLACK+DECKER	TO60D5-2BD	BLACK	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
7	7.3 CU. FT. TOP FREEZER REFRIGERATOR	MAGIC CHEF	MCDR740STE	PLATINUM STEEL	INSTALL PER ADA AND MANUFACTUER'S INSTRUCTIONS, U.N.O.
8	EXISTING MICROWAVE	N/A	N/A	N/A	EXISTING MICROWAVE TO BE REUSED
9	EXISTING TOASTER OVEN	N/A	N/A	N/A	EXISTING TOASTER OVEN TO BE REUSED
10	EXISTING COFFEE MACHINE	N/A	N/A	N/A	EXISTING COFFEE MACHINE TO BE REUSED
11	EXISTING TRASH RECYCLE, & COMPOST BIN	N/A	N/A	N/A	EXISTING TRASH RECYCLE, & COMPOST BIN TO BE REUSED
12	EXISTING VENDING MACHINE	N/A	N/A	N/A	EXISTING VENDING MACHINE TO BE REUSED
13	EXISTING WATER FILTER MACHINE	N/A	N/A	N/A	EXISTING WATER FILTER MACHINE TO BE REUSED
14	EXISTING MERCHANDISE REFRIGERATOR	N/A	N/A	N/A	EXISTING MERCHANDISE REFRIGERATOR TO BE REUSED

NOTE:
ALL MILLWORK SHALL BE AWI CERTIFIED PREMIUM GRADE

FINISH MATERIAL COMPLIANCE:
ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH 2018 IBC SECTION 803.1 FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT

ROOM SCHEDULE BUILDING - A

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
100	RECEPTION/LOBBY	LVT-1	B-1	PT-1	GYP-1	
100a	WAITING	LVT-1	B-1	PT-1	GYP-1	
101	SR. ADMIN	CPT-1	B-1	PT-1	GYP-1	
102	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
103	SUPERINT.	CPT-1	B-1	PT-1	ACT-1/GYP-1	
104	CORRIDOR	LVT-3	B-1	PT-1	ACT-1/GYP-1	
105	STOR.	LVT-3	B-1	PT-1	ACT-1	
106	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
107	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
108	OFFICE/STOR.	CPT-1	B-1	PT-1	ACT-1/GYP-1	
109	FORMEN AND TECHS "BULL PEN"	CPT-1/LVT-3	B-1	PT-1	ACT-1/GYP-1	
110	PARK RANGERS "BULL PEN"	CPT-1/LVT-3	B-1	PT-1	ACT-1/GYP-1	
111	MOM'S ROOM	CPT-3	B-1	PT-1	ACT-1	
112	STORAGE	LVT-3	B-1	P-1	ACT-1	
113	STORAGE	LVT-3	B-1	P-1	ACT-1	
114	CORRIDOR	LVT-3	B-1	PT-1	ACT-1/GYP-1	
115	SR ADMIN	CPT-1	B-1	PT-1	GYP-1	
116	CUBICLES	CPT-1	B-1	PT-1	ACT-1/GYP-1	
117	STOR/SAFE RM.	LVT-3	B-1	PT-1	ACT-1	
118	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
119	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
120	MEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
121	WOMEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
122	JAN. CLO.	LVT-3	B-1	FRP/PT-1	ACT-1	FRP TO 5'-0" HEIGHT FROM F.F.
123	ELECT. RM	LVT-3	B-1	PT-1	ACT-1	
124	SUPERVISOR	CPT-1	B-1	PT-1	ACT-1/GYP-1	
125	CUBICLES	CPT-1	B-1	PT-1	ACT-1/GYP-1	
126	STOR.	LVT-3	B-1	PT-1	ACT-1	
127	SUPERINT.	CPT-1	B-1	PT-1	ACT-1/GYP-1	
128	PLANNER	CPT-1	B-1	PT-1	ACT-1/GYP-1	
129	IT	LVT-3	B-1	PT-1	ACT-1	
130	STOR.	LVT-3	B-1	PT-1	ACT-1	
131	COPY ROOM	LVT-3	B-1	PT-1	ACT-1	
132	SUPERINT.	CPT-1	B-1	PT-1	ACT-1/GYP-1	

ROOM SCHEDULE BUILDING - C

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
200	SR. ADMIN	LVT-1	B-1	PT-1	GYP-1	
201	ASSIT. DIRECTOR	CPT-2	B-1	PT-1	ACT-1/GYP-1	
202	DIRECTOR	CPT-2	B-1	PT-1	ACT-1/GYP-1	
203	CORRIDOR	LVT-3	B-1	PT-1	ACT-1/GYP-1	
204	CONFERENCE ROOM	CPT-3/LVT-3	B-1	PT-1	ACT-1/GYP-1	
205	CUBICLES	CPT-2	B-1	PT-1	ACT-1/GYP-1	
206	OFFICE	CPT-2	B-1	PT-1	ACT-1/GYP-1	
207	SUPERVISOR	CPT-2	B-1	PT-1	ACT-1/GYP-1	
208	MANAGER	CPT-2	B-1	PT-1	ACT-1/GYP-1	
209	FLEXIBLE MULTI-PURPOSE ROOM	LVT-3	B-1	PT-1	WC-1	
210	BREAKROOM	LVT-3	B-1	PT-1	WC-1	
211	MEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
212	WOMEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
213	ELECT. RM	LVT-3	B-1	PT-1	ACT-1	
214	STOR.	LVT-3	B-1	PT-1	ACT-1	
215	COPY ROOM	LVT-3	B-1	PT-1	ACT-1	
216	CONFERENCE ROOM	CPT-3/LVT-3	B-1	PT-1	ACT-1/GYP-1	
300	ENTRY VESTIBULE	LVT-4	B-2	PT-1	GYP-1	

ROOM SCHEDULE BUILDING - B

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
301	ADMIN ASST.	CPT-4	B-2	PT-1	ACT-1	
302	COPY ROOM	LVT-4	B-2	PT-1	ACT-1	
303	IT ROOM	LVT-4	B-2	PT-1	ACT-1	
304	FOREMEN	CPT-4	B-2	PT-1	ACT-1	
305	BREAK RM	LVT-4	B-2	PT-1	ACT-1	
306	MEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
307	WOMEN'S RR	T-1	B-4	T-2/PT-1	GYP-1	
308	EXISTING MULTI PURPOSE ROOM	EXISTING	EXISTING	PT-1/PT-2	ACT-1	
309	ELECTRICAL ROOM	LVT-4	B2	PT-1	ACT-1	
310	OPEN DESK AREA	CPT-4	B-2	PT-1	ACT-1/GYP-1	
311	CUBICLES	CPT-4	B-2	PT-1	ACT-1/GYP-1	
312	STOR/SAFE RM.	LVT-4	B-2	PT-1	ACT-1	
313	SUPERINT.	CPT-4	B-2	PT-1	ACT-1/GYP-1	
314	SUPERV.	CPT-4	B-2	PT-1	ACT-1/GYP-1	
315	CORRIDOR	LVT-4	B-2	PT-1	ACT-1	
316	LAB	EXISTING	EXISTING	EXISTING	EXISTING	
317	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	
318	LAB					
319	LAB					
320	LAB					

CABINETRY SCHEDULE

MARK	SIZE (WxHxD)	CABINET	FINISH	MATERIAL	REMARKS
UPPER CABINET					
UC-1	4' x 3'-6" x 1'	UPPER CABINET	L-1	WOOD	
UC-2	3'-6" x 2' x 1'	UPPER CABINET	L-1	WOOD	
UC-3	1'-8" x 3'-6" x 2'	UPPER CABINET	L-1	WOOD	
UC-4	3'-4" x 3'-6" x 2'	UPPER CABINET	L-1	WOOD	
UC-5	1' x 3'-6" x 2'	UPPER CABINET	L-1	WOOD	
UC-6	1'-8" x 3'-6" x 1'	UPPER CABINET	L-1	WOOD	
UC-7	1'-11" x 2' x 2'	UPPER CABINET	L-1	WOOD	
UC-8	2' x 2'-6" x 2'	UPPER CABINET	L-1	WOOD	
UC-9	1' x 3'-6" x 1'	UPPER CABINET	L-1	WOOD	
UC-10	2"' x 3'-6" x 1'	UPPER CABINET	L-1	WOOD	
UC-11	3'-6" x 2' x 1'	UPPER CABINET	L-1	WOOD	
UC-12	2'-4" x 2' x 1'	UPPER CABINET	L-1	WOOD	
UC-13	3'-8" x 3'-6" x 1'	UPPER CABINET	L-1	WOOD	
BASE CABINET					
BC-1	4' x 2'-8 1/2" x 2'	BASE CABINET	L-1	WOOD	
BC-2	3'-6" x 2'-8 1/2" x 2'	BASE CABINET	L-1	WOOD	SINK CABINET WITH ONE PIECE DOOR AND BASE TO MEET A FORWARD APPROACH, ADA COMPLIANT
BC-3	2' x 2'-8 1/2" x 2'	BASE CABINET	L-1	WOOD	
BC-4	1' x 2'-8 1/2"x 2'	BASE CABINET	L-1	WOOD	
BC-5	1' x 4'-5" x 2'	BASE CABINET	L-1	WOOD	
BC-6	8" x 2'-8 1/2" x 2'	BASE CABINET	L-1	WOOD	SQUARE BAR PULL TO BE SIZE 6 5/16"
BC-7	3'-8" x 2'-8 1/2" x 2'	BASE CABINET	L-1	WOOD	
SPECIAL CABINET					
SPC-1	3'-10" x 4'-8 1/2" x 2'	SPECIAL CABINET	L-1	WOOD	SHELVES TO BE SPACED EQUAL WITH SS-1
SPC-2	3'-10" x 1'-2 1/2" x 2'	SPECIAL CABINET	L-1	WOOD	DRAWERS TO BE CREATED EQUAL

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
281.854.6100

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 6:17:30 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

FINISH & ROOM SCHEDULES

A601

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HARDWARE SCHEDULE

QUANTITY	SUFFIX	MANUF.	TYPE	MODEL NAME	FINISH
HW 1					
1	EA	PEMKO	CONTINUOUS HINGE	BSPFMXXSLF-HD1 BSPFMXXSLF-HD1	
1	EA	SARGENT	RIM EXIT DEVICE, STOREROOM	AD8504 LESS PULL	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	ROCKWOOD	DOOR PULL	BF158	BSP
1	EA	SARGENT	SURFACE CLOSER	281 CPS	BSP
1	EA	PEMKO	SWEEP	18041BSPNB	
1	EA	PEMKO	THRESHOLD	2005BSPV	
HW 2					
1	EA	PEMKO	CONTINUOUS HINGE	BSPFMXXSLF-HD1 PT	
1	EA	SARGENT	RIM EXIT DEVICE, STOREROOM	56 AD8504 LESS PULL	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	ROCKWOOD	DOOR PULL	BF158	BSP
1	EA	SARGENT	SURFACE CLOSER	281 CPS	BSP
1	EA	PEMKO	SWEEP	18041BSPNB	
1	EA	PEMKO	THRESHOLD	2005BSPV	
1	EA	SECURITRON	ELECTRIC POWER TRANSFER	EL-CEPT	BSP
1	EA	SECURITRON	KEYPAD	DK-12	
1	EA	SECURITRON	POWER SUPPLY	AQL SERIES AS REQUIRED	
HW 3					
3	EA	MCKINNEY	HINGE, FULL MORTISE, HVY WT	T4A3786	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	SURFACE CLOSER	281 CPS	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	SARGENT	RIM EXIT DEVICE, STOREROOM	8804 ETB	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
HW 4					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	STOREROOM/CLOSET LOCK	8204 LNB	BSP
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
HW 5					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	STOREROOM/CLOSET LOCK	8204 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
HW 6					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	STOREROOM/CLOSET LOCK	8204 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 CPS	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
HW 7					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	STOREROOM/CLOSET LOCK	8204 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
HW 8					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	BEST LOCKS & CLOSERS	CYLINDER	MATCH EXISTING	622
1	EA	SARGENT	CLASSROOM LOCK	8237 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
HW 9					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	SARGENT	PRIVACY LOCK	V21 8265 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
1	EA	ROCKWOOD	MOP PLATE	K1050 4" X LAR	BSP
HW 10					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	SARGENT	PASSAGE LATCH	8215 LNB	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
HW 11					
3	EA	MCKINNEY	HINGE, FULL MORTISE	TA2714	BSP
1	EA	ROCKWOOD	PULL PLATE	111X70C	BSP
1	EA	SARGENT	SURFACE CLOSER	281 O / P9	BSP
1	EA	ROCKWOOD	KICK PLATE	K1050 10" X LAR	BSP
3	EA	ROCKWOOD	SILENCER	608-RKW	
1	EA	ROCKWOOD	DOOR STOP	409 / 441CU	BSP
1	EA	ROCKWOOD	PUSH PLATE	70C-RKW	BSP
1	EA	ROCKWOOD	MOP PLATE	K1050 4" X LAR	BSP
HW 12					
1	EA	PEMKO	SLIDING DOOR HDWE	PF28200A	
2	EA	ROCKWOOD	FLUSH PULL	94PX94L	BSP

WINDOW SCHEDULE

MARK	COUNT	WIDTH	HEIGHT	SILL HEIGHT	HEAD HEIGHT	REMARKS	BLDG
6	8	5' - 0"	4' - 0"	3' - 3"	7' - 3"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	A-C
7	16	6' - 2"	3' - 0"	4' - 3"	7' - 3"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	A-C
8	5	4' - 0"	3' - 0"	15' - 0"	18' - 0"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	A-C
9	5	4' - 0"	2' - 0"	16' - 9"	18' - 9"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	A-C
10	3	4' - 0"	4' - 0"	12' - 0"	16' - 0"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	A-C
14	4	5' - 2"	5' - 3"	3' - 4"	8' - 7"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	B
15	1	2' - 9"	5' - 3"	3' - 4"	8' - 7"	RAM - NAIL FIN ALUMINUM ARTISAN PICTURE WINDOW - COLOR BLACK BRONZE ANODIZED LOW -E (SHGC 0.23)	B

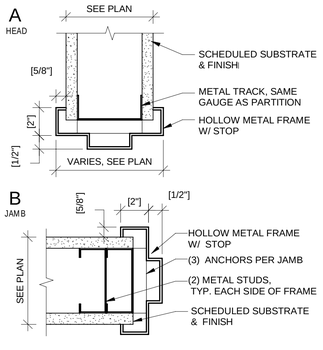
DOOR SCHEDULE

DOOR NUMBER	DOOR LOCATION	SIZE (WxH)	DOOR TYPE	DOOR FINISH	FRAME MATERIAL	HARDWARE SET	DOOR INFORMATION	REMARKS
100	RECEPTION/LOBBY	36" x 84"	D1	BAL/GL	F1	HW1		BUILDING MAIN ENTRY/WITH ONE SIDELITE, KEYPAD ACCESS
102	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
103	SUPERINT.	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
105	STOR.	28" x 84"	D2	BAL/SWD/LAM	F1	HW6		
106	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
107	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
109	CORRIDOR	36" x 84"	D1	BAL/GL	F1	HW8		
110	CORRIDOR	36" x 84"	D1	BAL/GL	F1	HW8		
111	MOM'S ROOM	36" x 84"	D2	BAL/SWD/LAM	F1	HW9		
112	STORAGE	72" x 84"	D5	BAL/SWD/LAM	F1	HW12		POCKET DOOR, RE: NOTE 3 THIS SHEET
113	STORAGE	36" x 84"	D2	BAL/SWD/LAM	F1	HW6		
114	CORRIDOR	36" x 84"	D1	BAL/GL	F1	HW2		SECONDARY ENTRY, KEYPAD ACCESS, POSSIBLE ADMIN CONTROL ROOM 115
116	CUBICLES	36" x 84"	D1	BAL/GL	F1	HW8		SIDELITE IN WALL FOR VISIBILITY
117	STOR/SAFE RM.	36" x 84"	D2	BAL/SWD/LAM	F1	HW6		KEYPAD ACCESS
118	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
119	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
120	MEN'S RR	36" x 84"	D2	BAL/SWD/LAM	F1	HW11		MIGHT REUSE DOOR AND REFINISH IT
121	WOMEN'S RR	36" x 84"	D2	BAL/SWD/LAM	F1	HW11		MIGHT REUSE DOOR AND REFINISH IT
122	JAN. CLO.	36" x 84"	D2	BAL/SWD/LAM	F1	HW6		
123	ELECT. RM	36" x 84"	D4	BAL/SWD/LAM	F1	HW3		WITH TRICKLE VENT
124	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
125	CORRIDOR	36" x 84"	D1	BAL/GL	F1	HW2		SECONDARY ENTRY, KEYPAD ACCESS
126	STOR.	28" x 84"	D2	BAL/SWD/LAM	F1	HW6		
127	SUPERINT.	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
128	PLANNER	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
129	IT	36" x 84"	D4	BAL/SWD/LAM	F1	HW5		WITH TRICKLE VENT
130	CORRIDOR	36" x 84"	D2	BAL/SWD/LAM	F1	HW6		
132	SUPERINT.	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
201	ASSIT. DIRECTOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
202	DIRECTOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
203	FLEXIBLE MULTI-PURPOSE ROOM	36" x 84"	D3	BAL/SWD/LAM	F1	HW8		LITE IN DOOR FOR VISIBILITY
204	CONFERENCE ROOM	36" x 84"	D1	BAL/GL	F1	HW10		
204a	CONFERENCE ROOM	36" x 84"	D1	BAL/GL	F1	HW10		
205	CUBICLES	36" x 84"	D1	BAL/GL	F1	HW7		
206	OFFICE	36" x 84"	D3	BAL/SWD/LAM	F1	HW5		SIDELITE IN WALL FOR VISIBILITY
207	SUPERVISOR	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
208	MANAGER	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
209	FLEXIBLE MULTI-PURPOSE ROOM	36" x 84"	D1	BAL/GL	F1	HW2		SECONDARY ENTRY, KEYPAD ACCESS
210	FLEXIBLE MULTI-PURPOSE ROOM	36" x 84"	D1	BAL/GL	F1	HW2		SECONDARY ENTRY, KEYPAD ACCESS
213	ELECT. RM	36" x 84"	D4	BAL/SWD/LAM	F1	HW5		WITH TRICKLE VENT
214	STOR.	36" x 84"	D2	BAL/SWD/LAM	F1	HW4		WITH TRICKLE VENT
216	CONFERENCE ROOM	36" x 84"	D1	BAL/GL	F1	HW10		
217	BREAKROOM	40" x 84"	D3	BAL/SWD/LAM	F1	HW8		LITE IN DOOR FOR VISIBILITY
217a			D6	BAL/GL	F1		MODERNFOLD PUREVIEW PARTITION, HORIZONTAL RAILS, END PIVOT PANEL, TRACK: G-330 BRACKET PROGRAMMABLE	OPERABLE WALL PANELS W/GLASS
218	~~FLEXIBLE MULTI-PURPOSE ROOM~~	~~26'-3" x 8'-0"~~	D3	BAL/SWD/LAM	F1	HW8		LITE IN DOOR FOR VISIBILITY
219	CORRIDOR	36" x 84"	D1	BAL/GL	F1	HW2		SECONDARY ENTRY, KEYPAD ACCESS
300	ENTRY VESTIBULE	36" x 84"	D1	BAL/GL	F1	HW1		BUILDING MAIN ENTRY/WITH TWO SIDELITE. KEYPAD ACCESS
303	IT ROOM	36" x 84"	D4	BAL/SWD/LAM	F1	HW3		WITH TRICKLE VENT. KEYPAD ACCESS
306	MEN'S RR	36" x 84"	D2	BAL/SWD/LAM	F1	HW11		MIGHT REUSE DOOR AND REFINISH IT
307	WOMEN'S RR	36" x 84"	D2	BAL/SWD/LAM	F1	HW11		MIGHT REUSE DOOR AND REFINISH IT
308	EXISTING MULTI PURPOSE ROOM	36" x 84"	EXISTING	EXISTING	F1	HW8		REFINSH HALLWAY SIDE OF DOOR WITH L-2
308a	EXISTING MULTI PURPOSE ROOM	36" x 82"	EXISTING	EXISTING	EXISTING	EXISTING		PAINTED EXISTING DOOR - MATCH EXTERIOR PAINT - EXTERIOR ONLY. KEYPAD ACCESS
308b	EXISTING MULTI PURPOSE ROOM	36" x 82"	EXISTING	EXISTING	EXISTING	EXISTING		PAINTED EXISTING DOOR - MATCH EXTERIOR PAINT - EXTERIOR ONLY. KEYPAD ACCESS
309	ELECTRICAL ROOM	36" x 84"	D4	BAL/SWD/LAM	F1	HW3		WITH TRICKLE VENT
310	OPEN DESK AREA	36" x 84"	D1	BAL/GL	F1	HW7		
312	STOR/SAFE RM.	36" x 84"	D2	BAL/SWD/LAM	F1	HW6		
313	SUPERINT.	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
314	SUPERV.	36" x 84"	D1	BAL/GL	F1	HW7		SIDELITE IN WALL FOR VISIBILITY
316	LAB	72" x 84"	EXISTING	EXISTING	EXISTING	EXISTING		PAINTED EXISTING DOOR - MATCH EXTERIOR PAINT - EXTERIOR ONLY. KEYPAD ACCESS
317	STORAGE	36" x 84"	EXISTING	EXISTING	EXISTING	EXISTING		PAINTED EXISTING DOOR - MATCH EXTERIOR PAINT - EXTERIOR ONLY. KEYPAD ACCESS

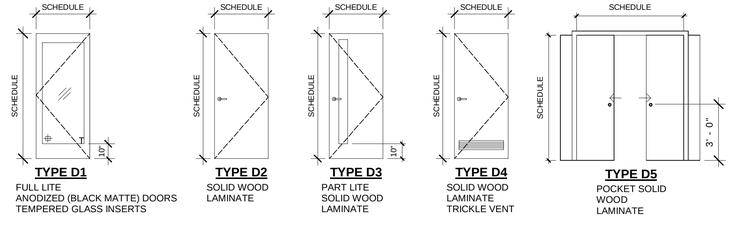
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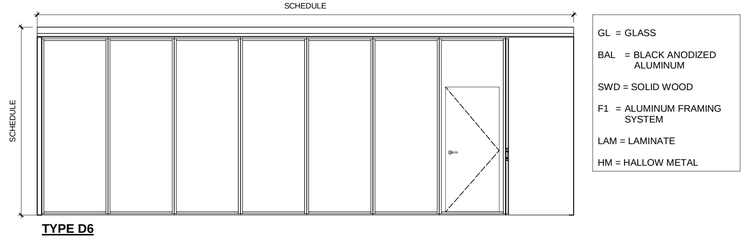
1. REFER TO GENERAL NOTES SHEET A102, A107A FOR FURTHER NOTE INFORMATION. MAIN ENTRY AND REAR DOOR PROVIDE A READILY VISIBLE AND DURABLE SIGN ADJACENT TO OR ON THE DOOR STATING THAT "THIS DOOR SHALL REMAIN UNLOCKED DURING OCCUPIED HOURS" WITH LETTERS ON CONTRASTING AND MIN. 1" HIGH.
2. MATCH COLOR AND STYLE OF ALL HARDWARE LEVERS, BUTTONS, PULL SET AND BARS.
3. SLIDING DOOR HARDWARE SHALL COMPLY WITH ADA STANDARDS SECTIONS 309.4 AND 404.2.7. OPERABLE PARTS SHALL BE MOUNTED 34" TO 48" ABOVE FINISHED FLOOR (AFF) AND MUST REMAIN EXPOSED AND OPERABLE FROM BOTH SIDES WHEN THE DOOR IS IN THE FULLY OPEN POSITION. PROVIDE DOOR STOPS OR OTHER MEANS TO ENSURE FLUSH PULLS REMAIN ACCESSIBLE.
   TO MEET ADA CLEARANCE REQUIREMENTS, THE DOOR PULL MUST HAVE A MINIMUM 1½" CLEARANCE ON BOTH SIDES OF THE DOOR IN BOTH OPEN AND CLOSED POSITIONS. DESIGN POCKET FRAMES TO ALLOW A MINIMUM 4" PROTRUSION INTO THE DOORWAY TO MAINTAIN THIS CLEARANCE.

DOOR HEAD AND JAMB DETAILS



DOOR TYPE





GL = GLASS

BAL = BLACK ANODIZED ALUMINUM

SWD = SOLID WOOD

F1 = ALUMINUM FRAMING SYSTEM

LAM = LAMINATE

HM = HALLOW METAL

DOOR HARDWARE GENERAL NOTES

A. ALL HARDWARE IS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA)

B. ALL LOCKSETS ARE TO USE LEVER HARDWARE (MOUNTED AT 38" AFF)

C. PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE

D. ENSURE ALL DOORS SWINGS OPEN A MINIMUM OF 105 DEGREES

E. THE MAXIMUM ALLOWABLE THRESHOLD HEIGHT IS 1/2" ABOVE THE FINISHED FLOOR

F. HARDWARE FINISH TO BE CLEAR BRUSHED STAINLESS STEEL, EXCEPT AT STOREFRONT DOORS (WHERE BRUSHED ALUMINUM SHALL BE USED)

G. THE MAXIMUM EFFORT TO OPERATE SHALL BE 8lbs OF FORCE FOR EXTERIOR DOORS AND 5lbs FOR INTERIOR DOORS, OR AS APPLICABLE REGULATIONS REQUIRE

H. THE LOWER 12" OF THE DOOR SHALL HAVE A SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR WHICH SHALL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARD (TITLE 24, CCR, SECTION 1133B.2.4.3)

I. PROVIDE CYLINDER GUARDS ON ALL MORTISE OR RIM TYPE CYLINDER FACE OF DOOR, OR AS OTHERWISE ACCESSIBLE TO GRIPPING TOOLS

J. ALL PIN TYPE HINGES WHICH ARE ACCESSIBLE FROM THE OUTSIDE WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HINGE PINS; THEY SHALL HAVE A MINIMUM OF 1/4" DIAMETER STEEL JAMB STUD WITH 1/4" MINIMUM PROJECTIONS UNLESS THE HINGES ARE SHAPED TO PREVENT REMOVAL OF THE DOOR IF THE HINGE PINS ARE REMOVED

K. EXIT DOORS SHALL SWING AS SHOWN OR IN THE DIRECTION OF EXIT TRAVEL AS REQUIRED BY APPLICABLE CODE

L. HARDWARE SCHEDULE SHALL BE PREPARED AND SUBMITTED BY GC FOR REVIEW BY OWNER AND ARCHITECT

M. GC SHALL SUBMIT HARDWARE SCHEDULE, MODEL NUMBERS, AND CUT SHEETS TO OWNER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PURCHASE

N. REFER TO THE DOOR SCHEDULE FOR SIZE AND TYPE OF DOORS, HARDWARE SET NUMBER, ETC.

O. REFER TO THE SPECIFICATIONS FOR DOOR HARDWARE SETS AND INFORMATION

P. ALL HOLLOW METAL FRAMES AND DOORS ARE TO BE FACTORY PRIMED AND FINISH PAINTED IN FIELD

Q. EXTERIOR GLAZING TO BE INSULATED GLASS, REFER TO GLAZING TYPES AND SPECIFICATIONS; EXTERIOR SPANDREL GLAZING WILL BE 1/4" WHEN BACKED WITH INSULATED WALL

R. ALL LEGAL EXITS INDICATED ON THE PLANS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED, "THIS DOOR TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED" IN BLOCK LETTERS A MINIMUM OF 1" IN HEIGHT ON A CONTRASTING BACKGROUND

S. SPECIAL LOCKING DEVICE SHALL BE AN APPROVED TYPE; FLUSH BOLTS OR SURFACE BOLTS ARE NOT ALLOWED

T. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5lbs FOR EXTERIOR DOORS, 5lbs FOR INTERIOR DOORS, AND 15lbs FOR FIRE-RATED DOORS, OR AS APPLICABLE REGULATIONS REQUIRE

U. WHERE EXIT DOORS SWING OUT OVER A LANDING, THE LANDING SHALL NOT BE MORE THAN 1/2" BELOW THE THRESHOLD

V. WEATHER-STRIP, SEAL, THRESHOLD, AND DRIP CAP AT ALL EXTERIOR DOORS AND AS REQUIRED

W. FOR RESTROOM SIGNAGE REQUIREMENTS, REFER TO G1.0, G1.1, AND SPECIFICATIONS

DOOR SIGNAGE NOTES

A. ALL SIGNAGE IS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA)

B. TACTILE SIGNAGE IS TO BE PROVIDED AT ALL EXIT PASSAGEWAYS AND EXTERIOR EXIT DOORS

C. SIGNAGE SHALL BE PROVIDED AT ALL ROOMS CONTAINING SPRINKLER RISERS AND VALVES OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID



10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/23/2025 6:17:47 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

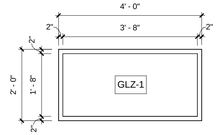
SCHEDULES & DIAGRAMS

A602

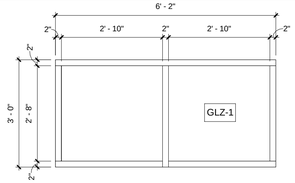
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GLZ-1	ALL EXTERIOR GLAZING TO HAVE THE FOLLOWING PROPERTIES U.N.O. REFER TO COMCHECK FOR ADDITIONAL INFORMATION. TINT: CLEAR THICKNESS: 1" VLT: 51% SHGC: 0.19 U-FACTOR: 0.36 OUTDOOR LITE: 6mm SOLARBAN 90 (2) CLEAR by VITRO (PPG) AIRSPACE: 1/2" INDOOR LITE: 6mm VITRO CLEAR GLASS
GLZ-2	ALL INTERIOR GLAZING TO HAVE THE FOLLOWING PROPERTIES U.N.O. VITRO ARCHITECTURAL GLASS - MONOLITHIC GLASS CLEAR FLOAT GLASS THICKNESS: 1/4"

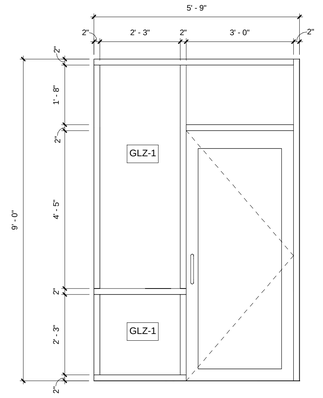
NOTE: REFER TO A602 FOR SCHEDULE



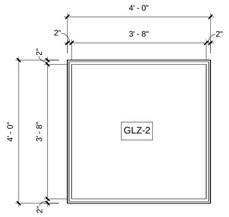
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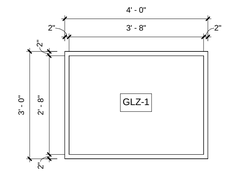
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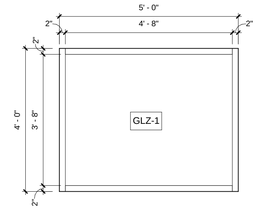
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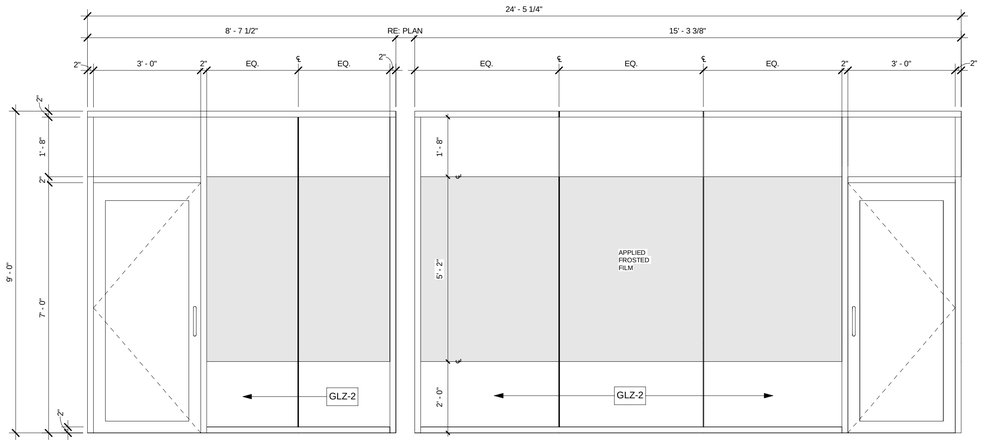
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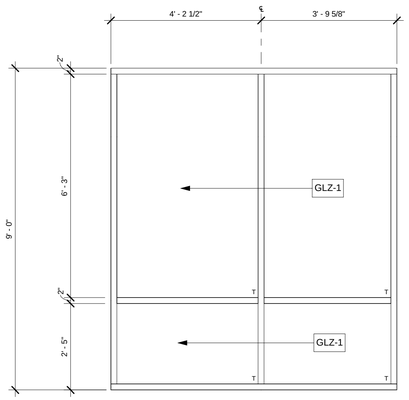
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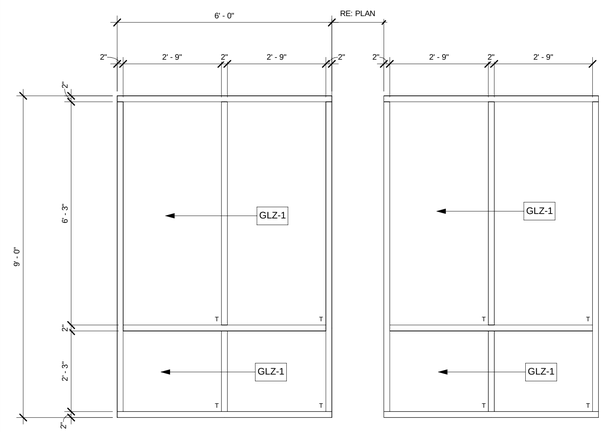
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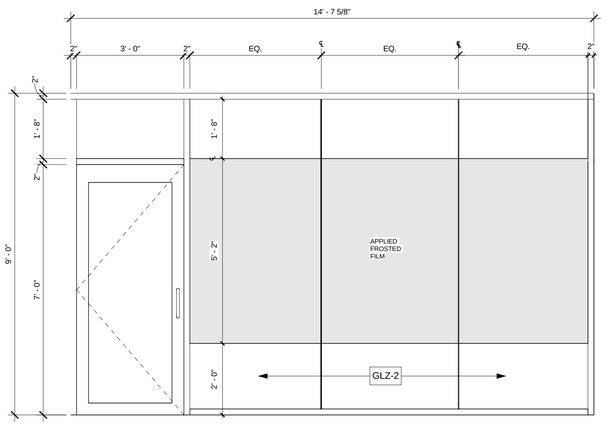
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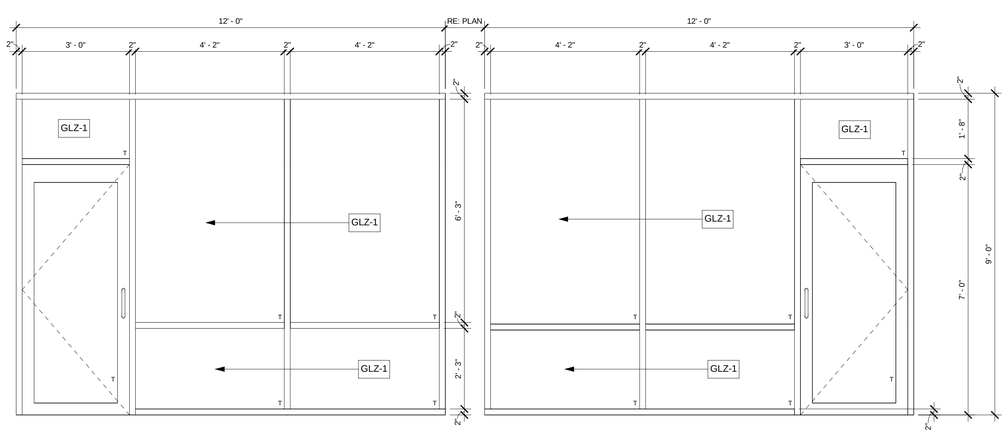
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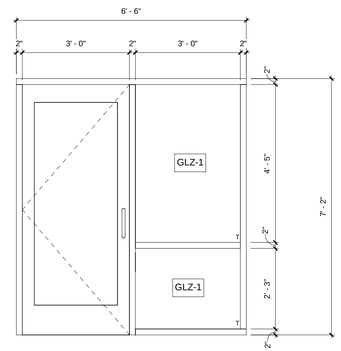
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TYPE "11" 12
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TYPE "4" 4
1/2" = 1'-0"



TYPE "1" 1
1/2" = 1'-0"

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS
10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number: 24026	Sheet Size: 24 x 36
Date / Time Plotted: 10/23/2025 6:51:40 PM	
Drawn By: RW/AV	Checked By: JT/RM
Project Phase: PERMIT ISSUE	

STOREFRONT/ WINDOW SCHEDULE

A603

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ALL EXTERIOR GLAZING TO HAVE THE FOLLOWING PROPERTIES U.N.O.
REFER TO COMCHECK FOR ADDITIONAL INFORMATION.

GLZ-1

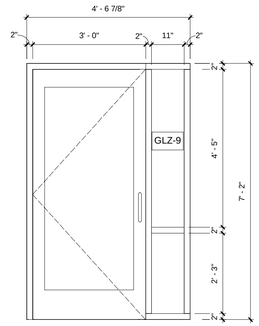
TINT:	CLEAR
THICKNESS:	1"
VLT:	51%
SHGC:	0.19
U-FACTOR:	0.36
OUTDOOR LITE:	6mm SOLARBAN 90 (2) CLEAR by VITRO (PPG)
AIRSPACE:	1/2"
INDOOR LITE:	6mm VITRO CLEAR GLASS

ALL INTERIOR GLAZING TO HAVE THE FOLLOWING PROPERTIES U.N.O.

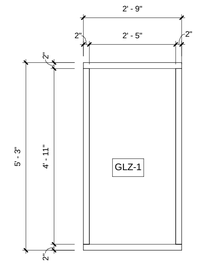
GLZ-2

VITRO ARCHITECTURAL GLASS - MONOLITHIC GLASS CLEAR FLOAT GLASS	
THICKNESS:	1/4"

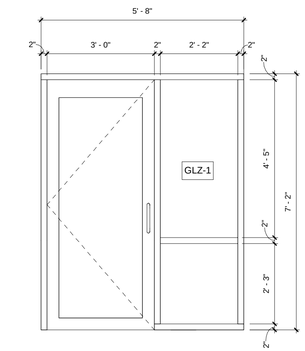
NOTE: REFER TO A602 FOR SCHEDULE



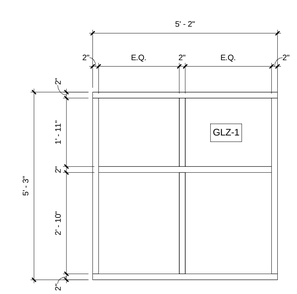
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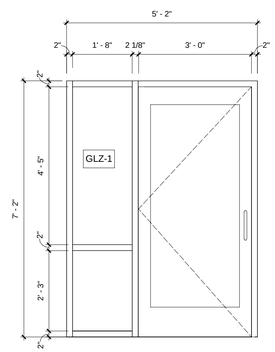
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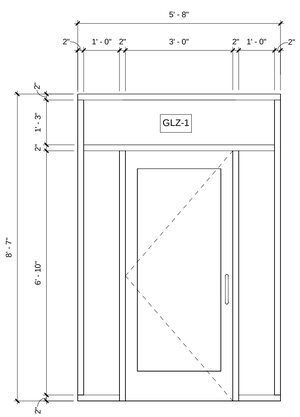
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TYPE "14" 2
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TYPE "17" 4
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TYPE "13" 1
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REGISTERED ARCHITECT JERRY TIPTON 18756 STATE OF TEXAS

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281.854.6100

PARD CAMPUS

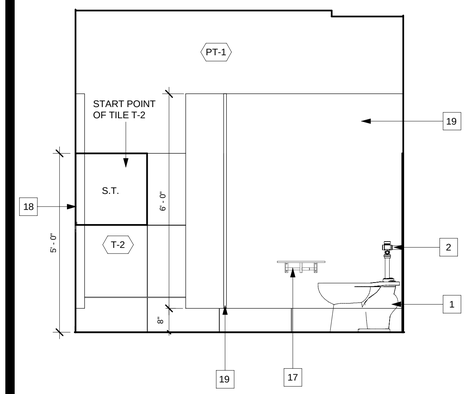
8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number: 24026	Sheet Size: 24 x 36
Date / Time Plotted: 10/23/2025 6:23:54 PM	
Drawn By: RW/AV	Checked By: JT/RM
Project Phase: PERMIT ISSUE	

STOREFRONT/ WINDOW/ DOOR SCHEDULE

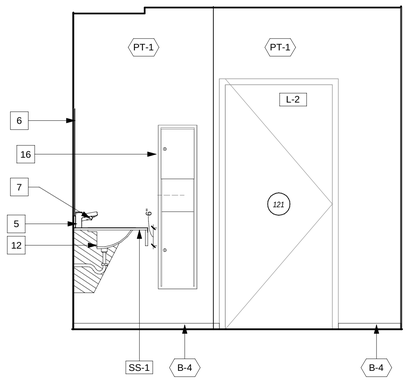
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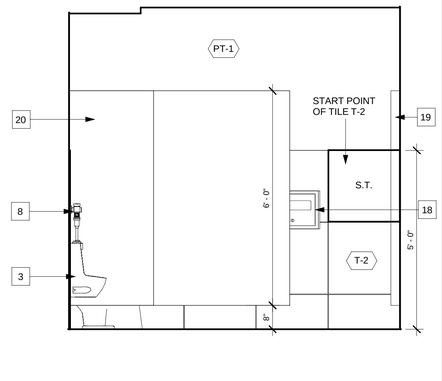
WOMEN'S RESTROOM #121 ELEVATION 12

1/2" = 1'-0"



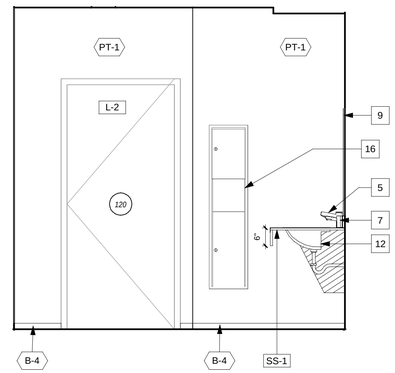
WOMEN'S RESTROOM #121 ELEVATION 9

1/2" = 1'-0"



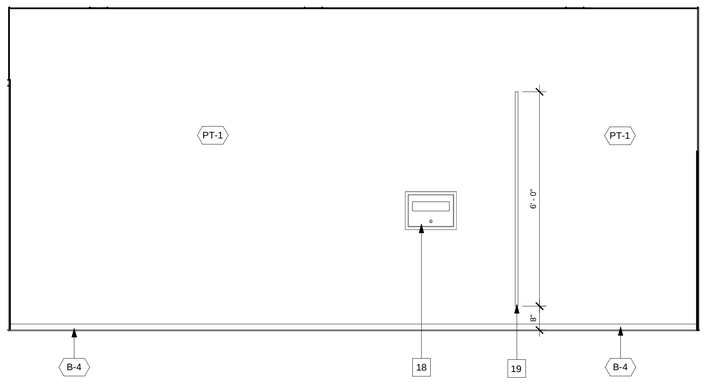
MEN'S RESTROOM #120 ELEVATION 6

1/2" = 1'-0"



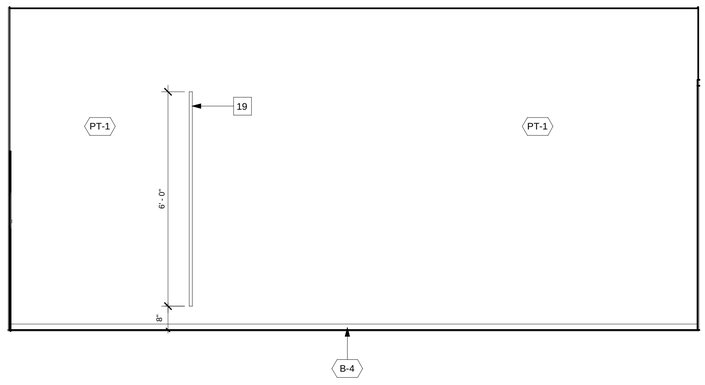
MEN'S RESTROOM #120 ELEVATION 3

1/2" = 1'-0"



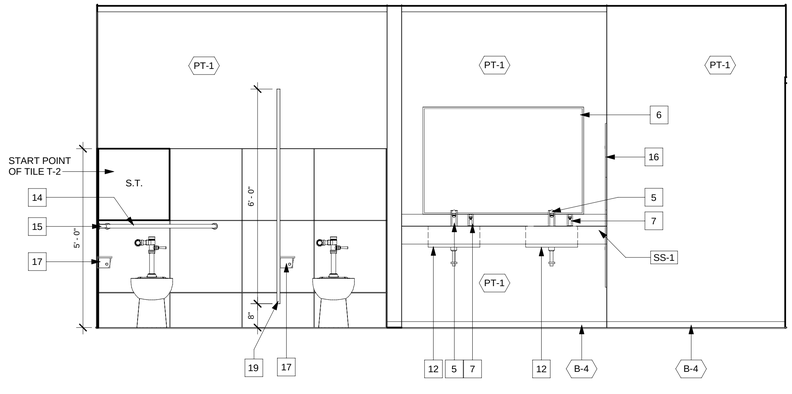
WOMEN'S RESTROOM #121 ELEVATION 8

1/2" = 1'-0"



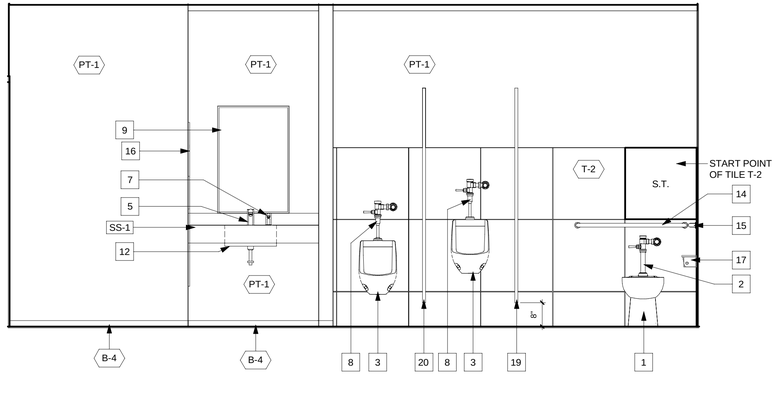
MEN'S RESTROOM #120 ELEVATION 2

1/2" = 1'-0"



WOMEN'S RESTROOM #121 ELEVATION 7

1/2" = 1'-0"



MEN'S RESTROOM #120 ELEVATION 1

1/2" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1, FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

J. CONTRACTOR TO COORDINATE TILE LAYOUT ON ALL WALL APPLICATIONS TO ENSURE ALIGNMENT OF GROUT JOINTS WITH KEY ARCHITECTURAL ELEMENTS AS INDICATED IN THE DRAWINGS. TILE INSTALLATION SHALL BE EXECUTED TO ACHIEVE INTENTIONAL VISUAL ALIGNMENT AND SYMMETRY AS SHOWN FROM THE DESIGN INTENT. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES, OR CONCERNS PRIOR TO INSTALLATION.

K. PROVIDE BLACK ELECTRICAL COVER PLATES AT ALL WALL-MOUNTED DEVICES (E.G., SWITCHES, OUTLETS, DATA PORTS) LOCATED WITHIN THE BREAKROOM TILE AREA.

LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

Heights Venture
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 6:24:19 PM

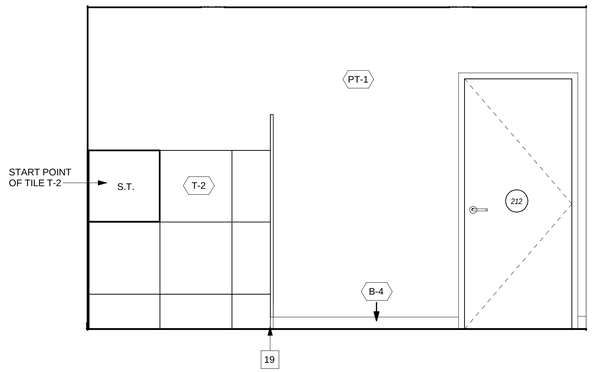
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C" RESTROOMS ELEVATIONS

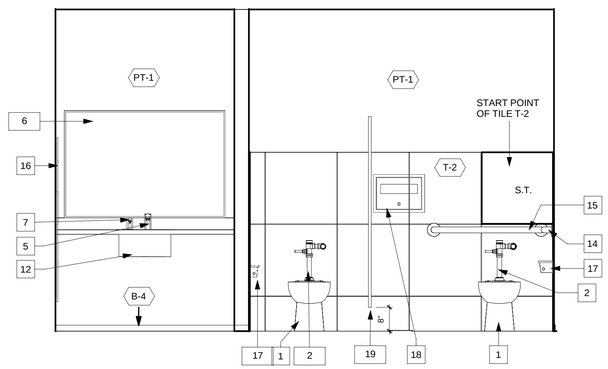
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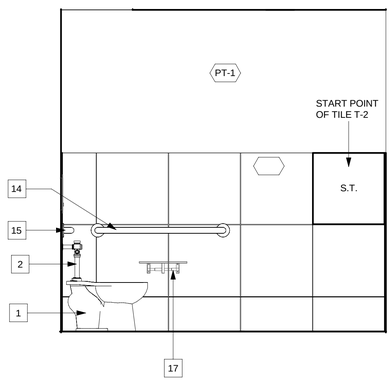
WOMAN'S RESTROOM #212 ELEVATION 6

1/2" = 1'-0"



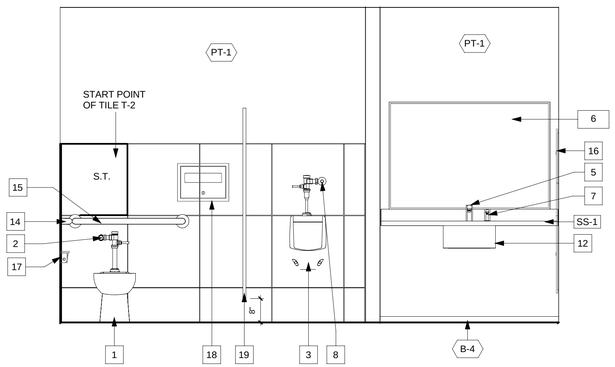
WOMAN'S RESTROOM #212 ELEVATION 3

1/2" = 1'-0"



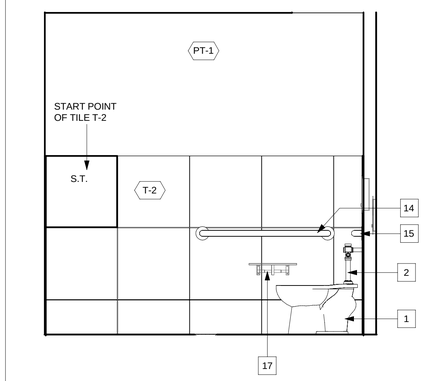
WOMAN'S RESTROOM #212 ELEVATION 11

1/2" = 1'-0"



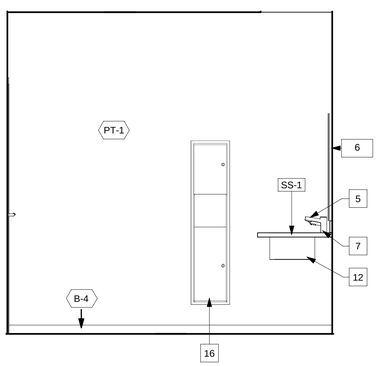
MEN'S RESTROOM #211 ELEVATION 5

1/2" = 1'-0"



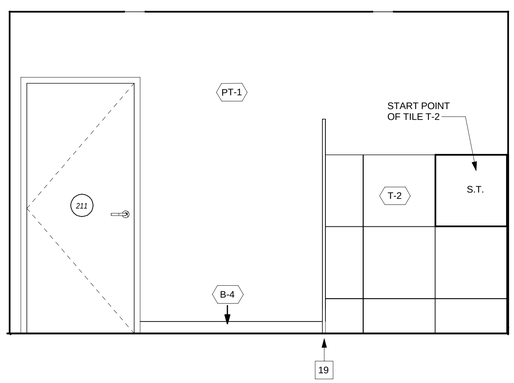
MEN'S RESTROOM #211 ELEVATION 2

1/2" = 1'-0"



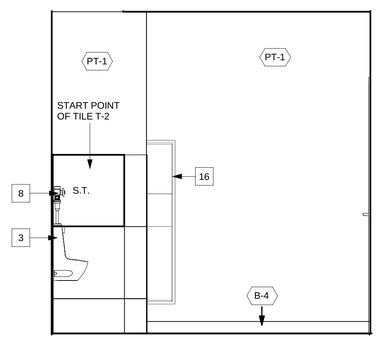
WOMAN'S RESTROOM #212 ELEVATION 10

1/2" = 1'-0"



MEN'S RESTROOM #211 ELEVATION 4

1/2" = 1'-0"



MEN'S RESTROOM #211 ELEVATION 1

1/2" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

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G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

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LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
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	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPS 18756 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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1111 North Loop West, Suite 800
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5741 Legacy Drive, Suite 320
Plano, Texas 75024
281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/23/2025 6:25:20 PM

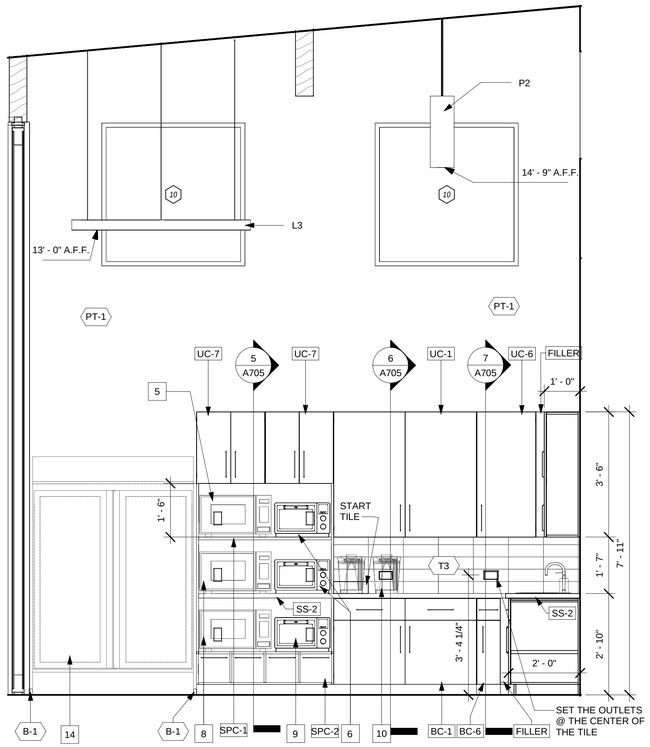
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

"BLDG A & C"
RESTROOMS
ELEVATIONS

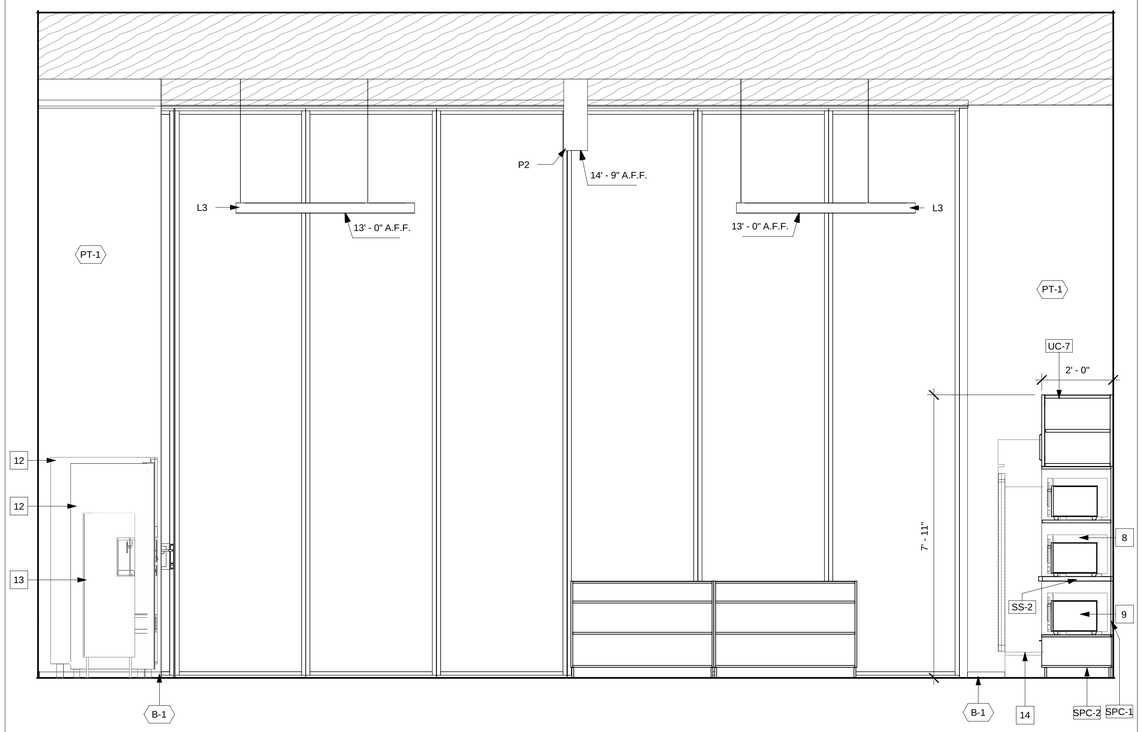
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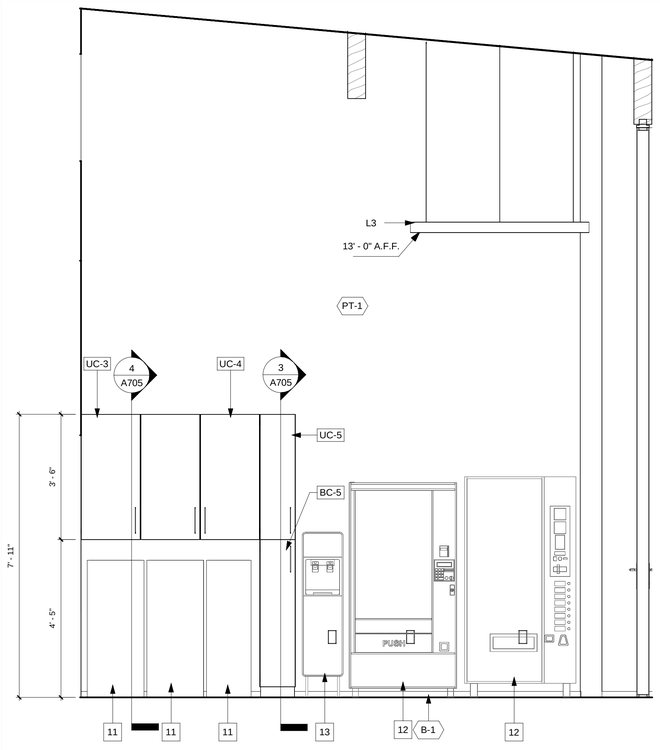
BREAKROOM #210 ELEVATION 8

1/2" = 1'-0"



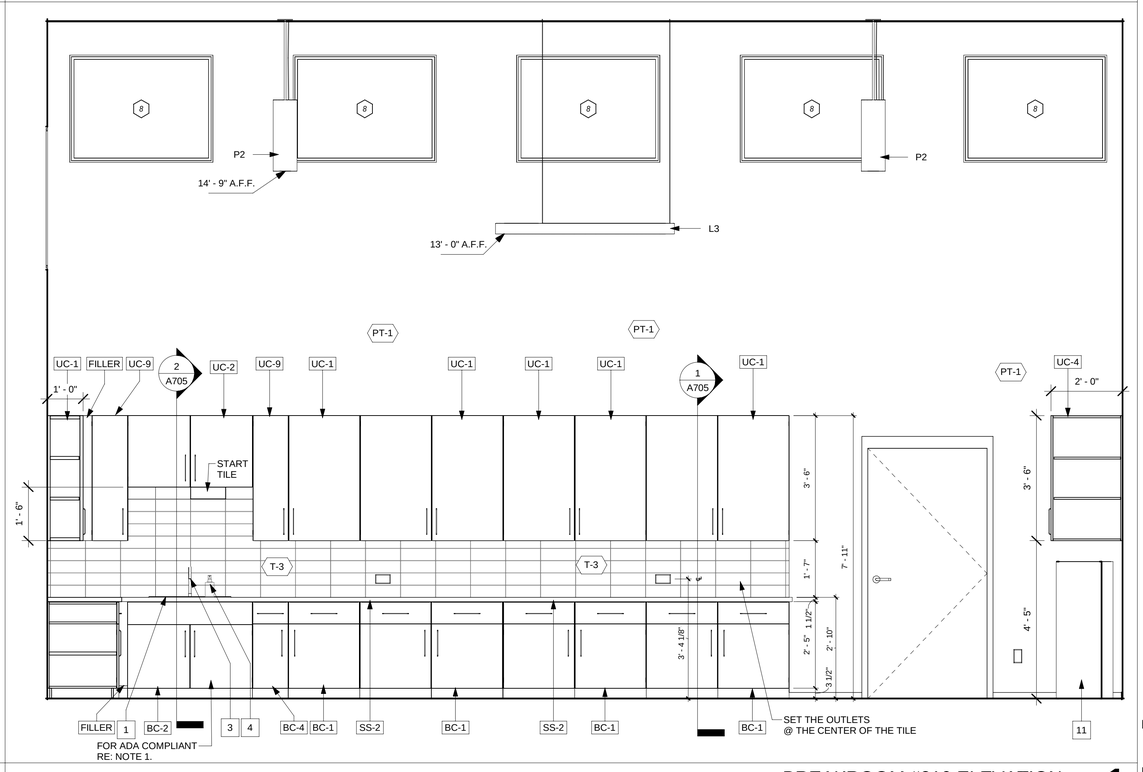
BREAKROOM #210 ELEVATION 2

1/2" = 1'-0"



BREAKROOM #210 ELEVATION 7

1/2" = 1'-0"



BREAKROOM #210 ELEVATION 1

1/2" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

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F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

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K. PROVIDE BLACK ELECTRICAL COVER PLATES AT ALL WALL-MOUNTED DEVICES (E.G., SWITCHES, OUTLETS, DATA PORTS) LOCATED WITHIN THE BREAKROOM TILE AREA.

L. ALIGN THE BACKSPLASH TILE IN THE BREAKROOM AS SHOWN IN THE ELEVATIONS. THE GROUT JOINT SHOULD BE CENTERED ON THE SINK FAUCET TO ENSURE SYMMETRICAL TILE PLACEMENT ON BOTH SIDES. ADDITIONALLY, THE TILE LAYOUT SHOULD BE CENTERED BETWEEN THE UPPER CABINETS ABOVE THE SINK TO MAINTAIN VISUAL BALANCE AND ALIGNMENT.

LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTON 18735 STATE OF TEXAS

10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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5741 Legacy Drive, Suite 320
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

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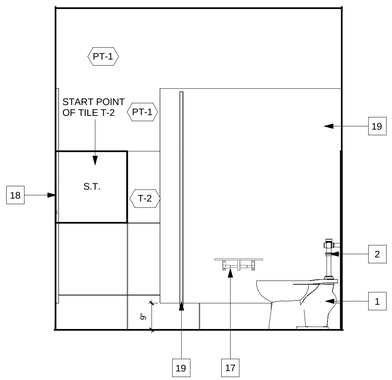
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RW/AV	JT/RM

Project Phase: PERMIT ISSUE

"BLDG A & C"
BREAKROOM
ELEVATIONS

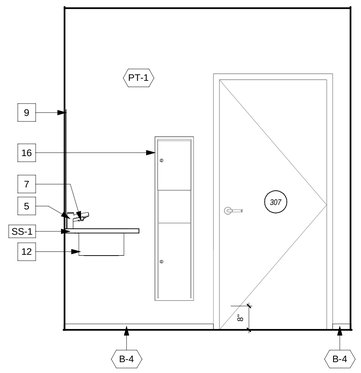
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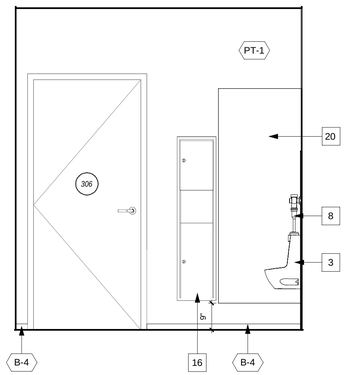
WOMEN'S RESTROOM #307 ELEVATION 12

1/2" = 1'-0"



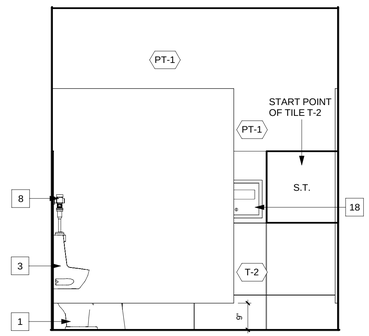
WOMEN'S RESTROOM #307 ELEVATION 9

1/2" = 1'-0"



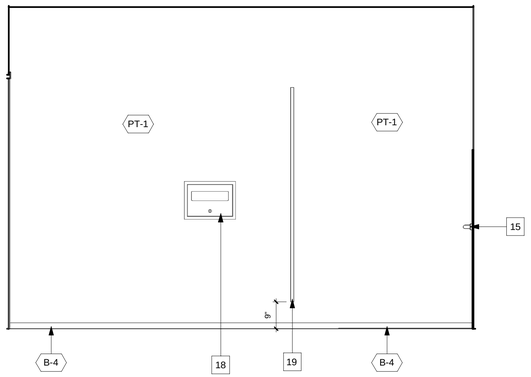
MEN'S RESTROOM #306 ELEVATION 6

1/2" = 1'-0"



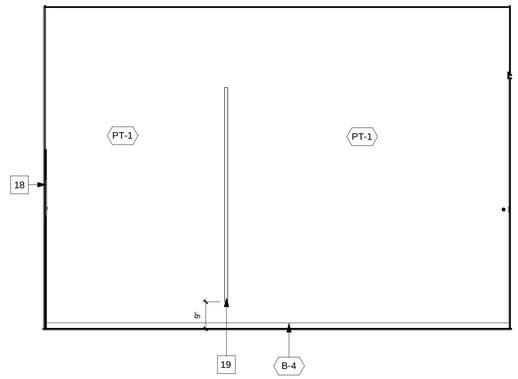
MEN'S RESTROOM #306 ELEVATION 3

1/2" = 1'-0"



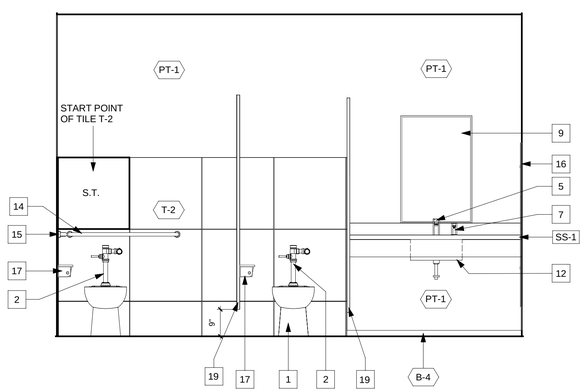
WOMEN'S RESTROOM #307 ELEVATION 11

1/2" = 1'-0"



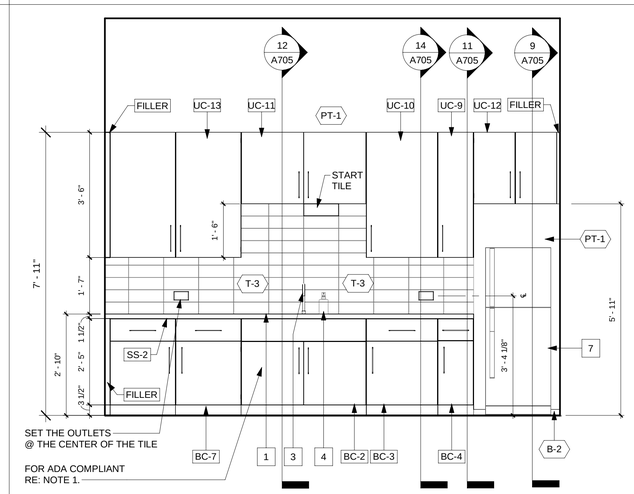
MEN'S RESTROOM #306 ELEVATION 2

1/2" = 1'-0"



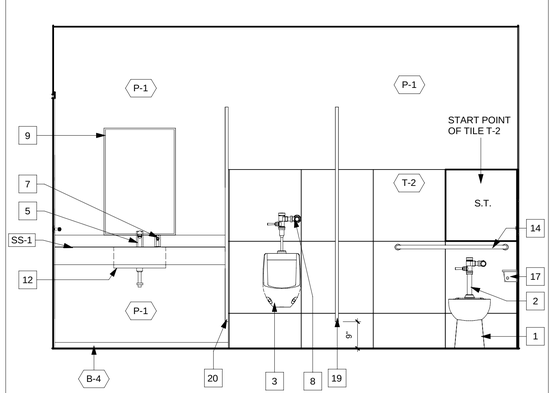
WOMEN'S RESTROOM #307 ELEVATION 10

1/2" = 1'-0"



BREAKROOM #305 ELEVATION 7

1/2" = 1'-0"



MEN'S RESTROOM #306 ELEVATION 1

1/2" = 1'-0"

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

C. ALL MANUFACTURE'S NAME, TRADEMARK, LOGOS, ETC SHALL NOT BE VISIBLE TO THE PUBLIC, UNLESS REQUIRED BY THE BUILDING CODE.

D. GENERAL CONTRACTOR SHALL VERIFY THE CONDITION OF ALL PRE-FINISHED FLOORS, AND PREPARE THESE SURFACES TO RECEIVE NEW FINISHES

E. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FINISHES WITH ALL MILLWORK, FURNITURE, EQUIPMENT, MECHANICAL DEVICES, ELECTRICAL DEVICES, DATA DEVICES AND AUDIOVISUAL SYSTEM TO ENSURE PROPER PLACEMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

F. GENERAL CONTRACTOR SHALL COORDINATE AND CONFIRM COMPATIBILITY OF ALL FINISHES, MATERIALS, SEALANTS, SEALERS, PAINTS, ADHESIVES, ETC. WITH SUBSTRATES ADJACENT MATERIALS, ETC. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING

G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

H. GENERAL CONTRACTOR TO REVIEW ALL DOCUMENTS FOR NOT ALL FINISHES MIGHT BE CALLED OUT ON THE FINISH PLAN. REFERENCE INTERIOR ELEVATIONS FOR WALL AND MILLWORK FINISHES.

I. ALL INTERIORS FINISH MATERIAL SHALL COMPLY WITH IBC SECTION 803.1. FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT.

J. CONTRACTOR TO COORDINATE TILE LAYOUT ON ALL WALL APPLICATIONS TO ENSURE ALIGNMENT OF GROUT JOINTS WITH KEY ARCHITECTURAL ELEMENTS AS INDICATED IN THE DRAWINGS. TILE INSTALLATION SHALL BE EXECUTED TO ACHIEVE INTENTIONAL VISUAL ALIGNMENT AND SYMMETRY AS SHOWN FROM THE DESIGN INTENT. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES, OR CONCERNS PRIOR TO INSTALLATION.

K. PROVIDE BLACK ELECTRICAL COVER PLATES AT ALL WALL-MOUNTED DEVICES (E.G., SWITCHES, OUTLETS, DATA PORTS) LOCATED WITHIN THE BREAKROOM TILE AREA.

L. ALIGN THE BACKSPLASH TILE IN THE BREAKROOM AS SHOWN IN THE ELEVATIONS. THE GROUT JOINT SHOULD BE CENTERED ON THE SINK FAUCET TO ENSURE SYMMETRICAL TILE PLACEMENT ON BOTH SIDES. ADDITIONALLY, THE TILE LAYOUT SHOULD BE CENTERED BETWEEN THE UPPER CABINETS ABOVE THE SINK TO MAINTAIN VISUAL BALANCE AND ALIGNMENT.

LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	03/28/25	60% REVIEW SET
	05/30/25	90% REVIEW SET
	10/22/25	100% PERMIT_BID

REGISTERED ARCHITECT JERRY TIPPIT 18756 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:26:51 PM

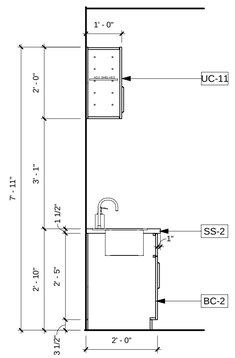
Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase: PERMIT ISSUE

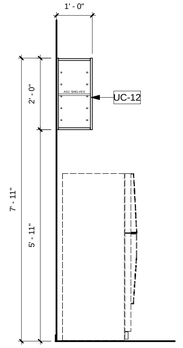
"BLDG B" RESTROOMS & BREAKROOM ELEVATIONS

A704

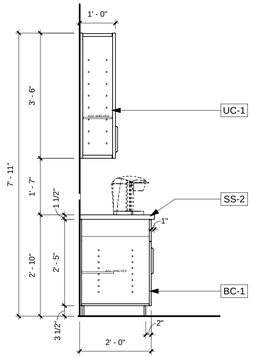
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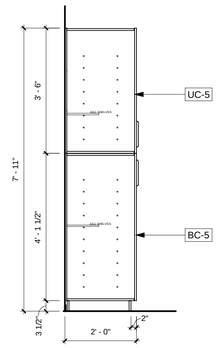
MILLWORK SECTION 12
1/2" = 1'-0"



MILLWORK SECTION 9
1/2" = 1'-0"



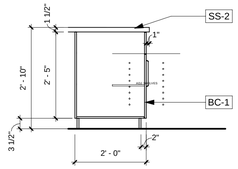
MILLWORK SECTION 6
1/2" = 1'-0"



MILLWORK SECTION 3
1/2" = 1'-0"

MILLWORK SECTION 14
1/2" = 1'-0"

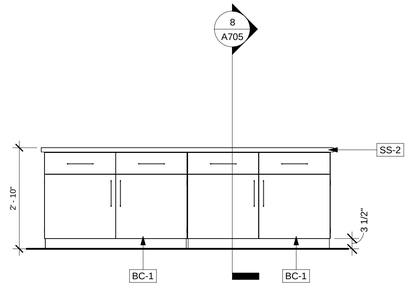
MILLWORK SECTION 11
1/2" = 1'-0"



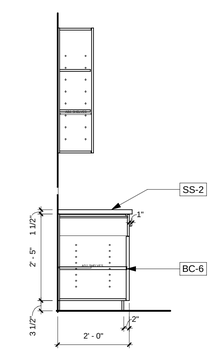
MILLWORK SECTION 8
1/2" = 1'-0"

MILLWORK SECTION 5
1/2" = 1'-0"

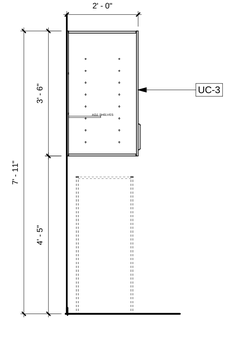
MILLWORK SECTION 2
1/2" = 1'-0"



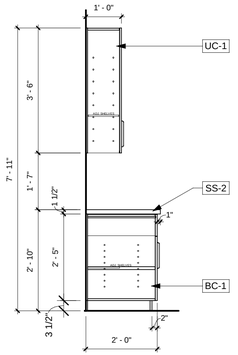
KITCHEN ISLAND ELEVATION 10
1/2" = 1'-0"



MILLWORK SECTION 7
1/2" = 1'-0"



MILLWORK SECTION 4
1/2" = 1'-0"



MILLWORK SECTION 1
1/2" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

B. GC TO INSTALL AND VERIFY THAT ALL FIXTURES AND ACCESSORIES ARE ADA COMPLAINT, U.N.O. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD PRIOR TO PROCEEDING.

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LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE

NOTE 1: FOR ADA COMPLIANCE, RE: G004 & A601 CABINETRY SCHEDULE.

NOTE: REFER TO A601 FOR ACCESSORIES AND FINISHES

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTS 18755 STATE OF TEXAS

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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Date / Time Plotted: 10/23/2025 6:27:12 PM

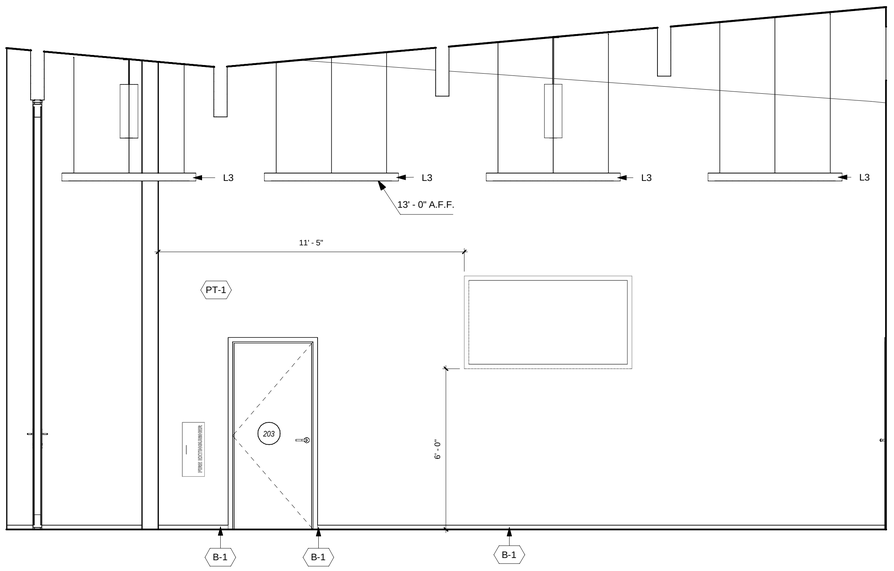
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RW/AV	JT/RM

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"BLDG A & C"
BREAKROOM
MILLWORK

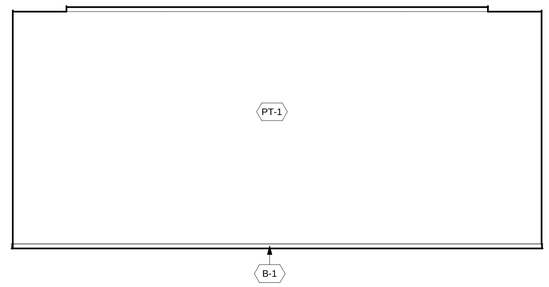
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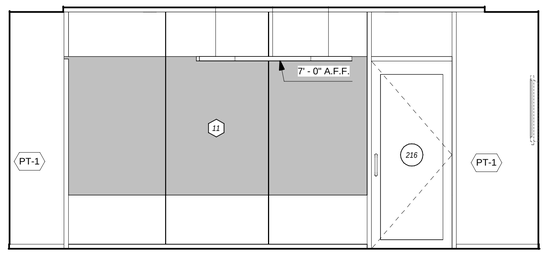
FLEXIBLE MULTI-PURPOSE ROOM 209 ELEVATION 9

3/8" = 1'-0"



CONFERENCE 216 ELEVATION 4

3/8" = 1'-0"



CONFERENCE 216 ELEVATION 3

3/8" = 1'-0"

GENERAL NOTES

A. ALL FINISH MATERIALS MUST COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOP INDEXES.

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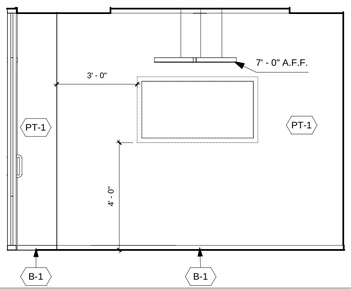
G. ALL FLOOR TRANSITIONS OCCURRING AT DOORS SHALL OCCUR AT THE CENTERLINE OF THE DOOR, U.N.O.

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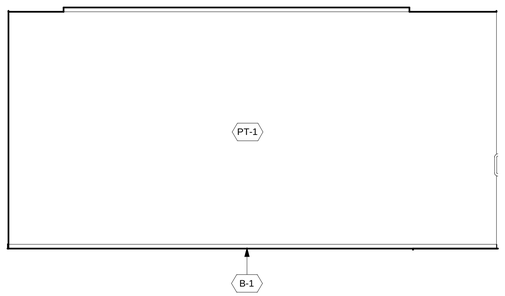
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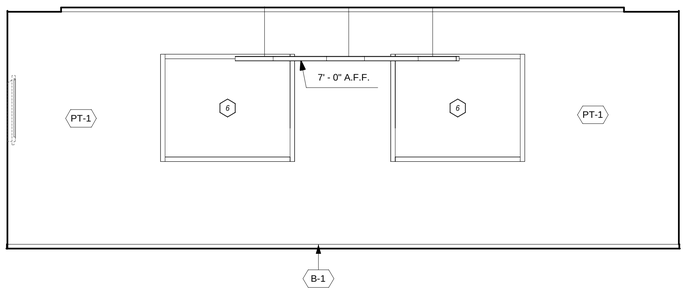
CONFERENCE 216 ELEVATION 8

3/8" = 1'-0"



CONFERENCE 204 ELEVATION 6

3/8" = 1'-0"

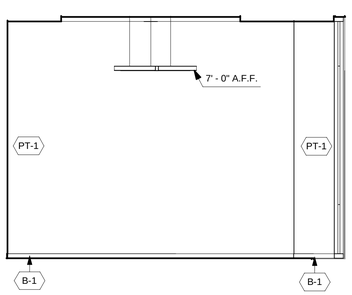


CONFERENCE 204 ELEVATION 2

3/8" = 1'-0"

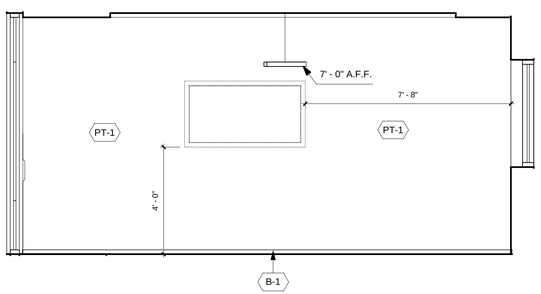
LEGEND

0	GRID LINE
101a	DOOR TAG
#	WINDOW TAG
#	ACCESSORY TAG
S.T.	START TILE



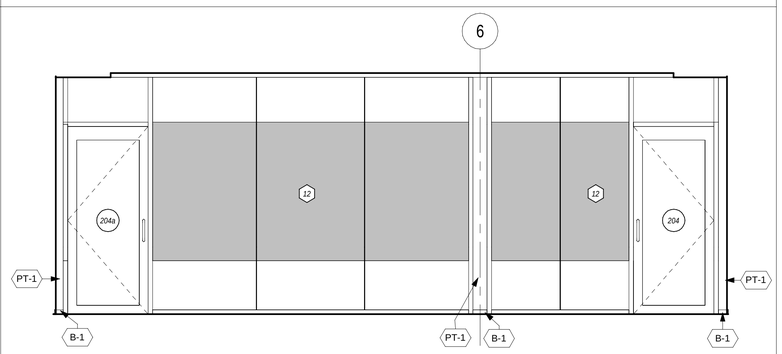
CONFERENCE 216 ELEVATION 7

3/8" = 1'-0"



CONFERENCE 204 ELEVATION 5

3/8" = 1'-0"



CONFERENCE 204 ELEVATION 1

3/8" = 1'-0"

NOTE: REFER TO A601 FOR FINISHES

THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPTON 18756 STATE OF TEXAS

10/22/2025

Heights Venture
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

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Project Phase: PERMIT ISSUE

"BLDG A & C"
CONFERENCE
ELEVATIONS

A706

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THE WOODLANDS TOWNSHIP

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REGISTERED ARCHITECT JERRY TIPPS 18786 STATE OF TEXAS

10/22/2025

Heights Venture
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281.854.6100

PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/23/2025 6:30:55 PM

Drawn By:	Checked By:
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Project Phase: PERMIT ISSUE

"BLDG A & C" 3D EXTERIOR REPRESENTATION

A901

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10/22/2025

Heights Venture
ARCHITECTURE DESIGN

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/23/2025 6:31:28 PM

Drawn By:	Checked By:
RW/AV	JT/RM

Project Phase:
PERMIT ISSUE

"BLDG A & C" 3D INTERIOR REPRESENTATION

A902

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GENERAL:

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE UNLESS NOTED OTHERWISE.

2. LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING:

   DEAD LOADS:

   DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

   LIVE LOADS:

   REDUCED IN ACCORDANCE WITH IBC 2024 GUIDELINES

   FLOOR LIVE LOADS:

   ALL AREAS .....100 PSF

   WIND LOADS:

   WIND PRESSURES IN ALL DIRECTIONS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE CODE PROVISIONS FOR A BASIC WIND SPEED OF 122 MPH (EXPOSURE C). THE STRUCTURE IS CLASSIFIED AS A CATEGORY II STRUCTURE. THE INTERNAL PRESSURE COEFFICIENT IS +/- .18 DEPENDING ON WIND DIRECTION.

3. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATIONS. A PERIOD OF AT LEAST 10 WORKING DAYS SHALL BE PROVIDED FOR THIS REVIEW. REVIEW OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK.

4. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE SHOWN ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT THE SPECIFIC CHANGES ARE BEING SUGGESTED AND BROUGHT TO ATTENTION OF THE ENGINEER TO REVIEW.

5. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

6. PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS AND SIMILAR DETAILS NOT SHOWN. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.

7. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.

8. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS STATED OR SO NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND OTHER PERSONS DURING CONSTRUCTION.

9. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.

10. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LIVE LOADS. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOOR OR ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THESE REQUIREMENTS.

11. CONSTRUCTION SEQUENCE SHALL BE COORDINATED BY THE CONTRACTOR AS REQUIRED FOR INSTALLATION OF ALL STRUCTURAL COMPONENTS.

12. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER AS OUTLINED IN THE SPECIFICATIONS. INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED AGENCY.

13. IF ANY INCONSISTENCIES OR DISCREPANCIES OCCUR WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE GREATER QUANTITY OF ITEMS SHOWN AND / OR THE MOST COSTLY PRODUCT OR INSTALLATION METHOD SHALL BE PROVIDED, UNLESS INSTRUCTED OTHERWISE BY THE ENGINEER. IT SHALL BE DEEMED THAT THE CONTRACTOR BID AND INTENDS TO EXECUTE THE MORE STRINGENT OR HIGHER QUALITY REQUIREMENT WITHOUT ANY INCREASE TO THE CONTRACT SUM OR CONTRACT TIME.

14. BRAND OR MANUFACTURER'S REFERENCES ARE DESCRIPTIVE ONLY, AND INDICATE TYPE AND QUALITY TO BE PROVIDED. ALL REFERENCES TO BRAND OR MANUFACTURER NAMES SHALL BE INTERPRETED TO INCLUDE THE LANGUAGE OF "OR A/E APPROVED EQUAL". ANY BRAND OR MANUFACTURER MEETING SPECIFICATIONS WILL BE CONSIDERED FOR APPROVAL, IRRESPECTIVE OF THE LANGUAGE "OR A/E/ APPROVED EQUAL" APPEARING IN CONJUNCTION WITH THE BRAND OR MANUFACTURER NAME.

WOOD

1. ALL WALL PANELS SHALL BE STRUCTURAL INSULATED PANELS. THE WALL DESIGN SHALL BE PROVIDED AS A SEALED CONSTRUCTION PACKAGE FOR REVIEW BY THE ENGINEER.

2. CLIPS, HOLDDOWNS. SILL PLATES, AND ANCHOR BOLTS SHALL BE AS SPECIFIED IN THE SIPS SUBMITTAL. SHEATHING SHALL BE PROVIDED PER THE MANUFACTURER'S SHEAR WALL DETAILS.

CAST IN PLACE CONCRETE

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. MILD STEEL REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60.

3. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A 185. ALL WELDED STEEL WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, NOT IN ROLLS.

4. MILD STEEL REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI SP-66.

5. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE NOTED. CONTRACTOR MAY SUBMIT A MIX WITH ASTM C-595, TYPE IL FOR ENGINEER'S APPROVAL.

6. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C 33. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATES, UNLESS NOTED OTHERWISE.

7. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. THE USE OF CALCIUM CHLORIDE IS PROHIBITED.

8. MIXES SHALL BE DESIGNED TO PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH AT 28 DAYS (f'c) AS FOLLOWS:

   -ALL CONCRETE.....4,000 PSI

9. THE MAXIMUM NOMINAL SIZE OF COARSE AGGREGATE SHALL BE AS FOLLOWS:

   - SLABS-ON-GRADE.....1 1/2"

   -ALL OTHER CONCRETE.....1"

10. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED AS FOLLOWS:

    -1" MAX AGGREGATE.....3% TO 6%

    -1 1/2" MAX AGGREGATE.....3% TO 6%

    AIR CONTENT SHALL BE CHECKED BY AN ACI APPROVED TESTER WITH AN AIR METER. CONCRETE FOR INTERIOR SLAB SHALL NOT BE AIR ENTRAINED.

11. THE MAXIMUM W/C RATIO OF THE MIX SHALL BE .45.

12. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

    -CONCRETE CONTAINING SUPERPLASTICIZER.....8" MAX.

    -ALL OTHER CONCRETE.....4" MAX.

13. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".

14. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

    -FOOTINGS.....1 1/2" TOP
    .....3" BOTTOM & 3" SIDES

    -SLABS-ON-GRADE.....1 1/2" TOP
    .....3" BOTTOM

15. REINFORCING BARS NO. 11 AND SMALLER SHALL BE CONTACT LAP SPLICED PER TABLE PROVIDED, UNLESS NOTED OTHERWISE. BARS LARGER THAN NO. 11 SHALL BE MECHANICALLY SPLICED WITH APPROVED DEVICES. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING ONE FULL MESH AND LACING THE SPLICES WITH WIRE. ALL SPLICES SHALL BE STAGGERED.

16. WELDING OF MILD STEEL REINFORCEMENT SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE – REINFORCING STEEL," AWS D-1.4.

17. THE TESTING LABORATORY SHALL BE NOTIFIED AFTER THE MILD STEEL REINFORCEMENT AND EMBEDS ARE POSITIONED PRIOR TO EACH CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED UNTIL THESE ITEMS ARE CHECKED AND APPROVED BY THE TESTING LABORATORY.

18. EACH AREA OF CONCRETE WORK SHALL BE FINISHED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. CHAMFERS SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.

19. THE USE OF FLY ASH AS A PARTIAL REPLACEMENT FOR CEMENT WILL BE ALLOWED AT THE CONTRACTOR'S OPTION. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C 618, CLASS F OR C, WITH THE FOLLOWING AMENDMENTS: A CLASS F FLY ASH CAN REPLACE 20 TO 30 PERCENT OF THE PORTLAND CEMENT AND A CLASS C FLY ASH CAN REPLACE 25 TO 35 PERCENT. REFER TO SPECIFICATIONS FOR MINIMUM CONTENT REQUIREMENTS AND SUBMITTAL REQUIREMENTS. FLY ASH SHALL NOT BE USED IN CONCRETE MIXES FOR SLAB-ON-GRADE CONCRETE.

20. EMBEDDED ITEMS WITH HEADED CONCRETE ANCHORS (HCA) SHALL BE INSTALLED IN PLASTIC CONCRETE IN ORDER TO MINIMIZE ADJACENT VOIDS AND ENSURE PROPER BEHAVIOR OF HCA. THE CONCRETE SURROUNDING THESE EMBEDDED ITEMS SHALL BE THOROUGHLY CONSOLIDATED.

21. FLOOR SLAB THICKNESS IS BASED UPON SERVICE LOADS ONLY. PLACEMENT OF A CRANE OR TRUCK ON THE FLOOR SLAB FOR ERECTION PURPOSES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AN ADEQUATE SLAB TO SUPPORT CRANE LOADS IF CRANES ARE REQUIRED TO BE PLACED ON THE SLAB. TRUCKS AND CRANES SHALL NOT BE ALLOWED TO DRIVE OVER SLAB REINFORCEMENT.

22. CONCRETE SHALL REACH 75% OF SPECIFIED STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED.

23. IF THE AIR TEMPERATURE IS EXPECTED TO BE GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURES SHALL BE USED. CURING COMPOUNDS SHALL NOT BE USED ON SLAB-ON-GRADE.

24. POST INSTALLED ANCHORS SHALL BE AS PROVIDED IN THE PLANS OR AN ALTERNATIVE SUBMITTED FOR REVIEW BY THE ENGINEER FOR APPROVAL. CONTRACTOR SHALL PAY STRICT ATTENTION TO MANUFACTURER PRODUCT INSTALLATION REQUIREMENTS AND HAVE MANUFACTURER PROVIDE FIELD INSTRUCTION PRIOR TO USE.

CONTACT LAP SPLICE TABLE

BAR SIZE	MINIMUM CLASS B LAP LENGTH
#3	1'-8"
#4	2'-2"
#5	2'-8"
#6	3'-2"
#7	4'-6"
#8	5'-2"
#9	5'-10"

EARTHWORK AND FOUNDATIONS

1. THE FOUNDATION DESIGN IS IN ACCORDANCE WITH A GEOTECHNICAL INVESTIGATION AND REPORT BY TERRACON, PROJECT NO. 97245057, DATED SEPTEMBER 2024. EXCERPTS FROM THE AFOREMENTIONED REPORT ARE PROVIDED BELOW FOR INFORMATION ONLY. ALL EARTHWORK SHALL BE BASED UPON THE GEOTECHNICAL REPORT.

2. RECOMMENDATIONS FROM THE GEOTECHNICAL REPORT ALLOW FOR MAXIMUM ESTIMATED VERTICAL POST CONSTRUCTION MOVEMENTS OF ONE INCH.

3. FOUNDATION EXCAVATION SHALL INCLUDE ALL EXCAVATION WITHIN THE BUILDING FOOTPRINT AND IN THE ADJACENT AREA WITHIN 3 FEET OF THE TYPICAL BUILDING LIMITS.

4. THE PROJECT PLANS AND SPECIFICATIONS SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER TO VERIFY COMPATIBILITY BETWEEN THE GEOTECHNICAL RECOMMENDATIONS AND THE DRAWINGS AND SPECIFICATIONS.

5. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE OWNER TO OBSERVE ALL EARTHWORKING OPERATIONS AND THE REQUIRED TESTING FOR IMPLEMENTING THE RECOMMENDATIONS OF THE AFOREMENTIONED GEOTECHNICAL REPORT. THESE TESTS AND OBSERVATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

   -OBSERVATION AND TESTING DURING SITE PREPARATION AND GRADING

   -OBSERVATION OF FOOTING EXCAVATIONS AND VERIFICATION THAT THE SOILS OF THE DESIGN BEARING CAPACITY HAVE BEEN ENCOUNTERED

   -CONSULTATION AS REQUIRED DURING CONSTRUCTION

   -VERIFICATION THAT THE BUILDING PAD IS SUITABLE FOR CONSTRUCTION

6. ALL EXISTING VEGETATION BENEATH THE BUILDING AREA SUCH AS TREES, BRUSH, AND STUMPS SHALL BE REMOVED FROM THE SITE.

7. ANY SLOUGHED, LOOSE OR SOFT MATERIALS NEAR THE BASE OF THE FOUNDATION EXCAVATION SLOPES SHALL BE REMOVED. IN ADDITION, COMPACTED FILL SHALL BE "TIED-IN" WITH THE EXCAVATION SLOPES USING BENCHES AS NECESSARY.

8. ANY EXISTING BASE OR PAVEMENT WITHIN THE AREA SHOULD BE DEMOLISHED. THE EXISTING SWALE IN THE AREA SHOULD BE DRAINED, PROPOERLY STRIPPED, AND DE-MUCKED. AFTER EXCAVATION IS COMPLETE THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH ITEM 216 OF THE 2024 TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE TO IDENTIFY AND REMOVE ANY WEAK COMPRESSIBLE, OR OTHERWISE UNSUITABLE MATERIALS. SUCH MATERIALS SHALL BE REMOVED AND REPLACED WITH SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN-SITU SOILS. PROOFROLLING SHOULD BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE AND MAY BE WAIVED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. AFTER PROOFROLLING, AND JUST PRIOR TO PLACEMENT OF FILL, THE EXPOSED SUBGRADE WITHIN THE CONSTRUCTION ARE SHALL BE EVALUATED FOR MOISTURE AND DENSITY. IF THE MOISTURE/DENSITY DO NOT MEET THE REQUIRED CRITERIA, THE SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES, MOISTURE ADJUSTED, AND COMPACTED TO AT LEAST 95% OF THE ASTM D 698 MAXIMUM DRY DENSITY.

9. SELECT FILL SHALL CONSIST OF UNIFORM, NON-ACTIVE INORGANIC LEAN CLAY (CL) OR CLAYEY SAND (SC) WITH A PI BETWEEN 10 AND 20 PERCENT, AND MORE THAN 35 PERCENT PASSING A NO 200 SIEVE. A MINIMUM OF 12 INCHES OF SELECT FILL SHALL BE PLACED BENEATH THE FLOOR SLAB.

10. ALL MATERIAL INTENDED FOR USE AS SELECT FILL SHALL BE TESTED PRIOR TO USE. FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS. SELECT FILL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE ASTM D698 (STANDARD PROCTOR) MAXIMUM DRY UNIT WEIGHT AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM.

11. LOCATE ALL UTILITIES AND UNDERGROUND SERVICES PRIOR TO PERFORMING EXCAVATION OF ANY KIND.

12. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2000 PSF FOR SUSTAINED LOADS AND 3000 PSF FOR TOTAL LOADING. THESE VALUES ARE APPLICABLE TO STRIP FOOTINGS CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. DRILLED SHAFTS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 6400 PSF FOR TOTAL LOADING, AND AN ALLOWABLE SKIN FRICTION OF 150 PSF BETWEEN 4 FEET AND 8 FEET BELOW EXISTING GRADE, AND 350 PSF BEYOND 8 FEET BELOW EXISTING GRADE.

13. THE GRADE BEAMS SHALL BE FORMED ON THE EXTERIOR SIDE.

14. THE CONTRACTOR SHALL VERIFY THE SUBGRADE ELEVATIONS, FLATNESS AND LEVELNESS PRIOR TO PLACING THE FLOOR SLABS. THE CONTRACTOR SHALL PROVIDE A SUBGRADE WHICH RESULTS IN SLAB THICKNESSES (FOR EACH POUR STRIP) THAT DO NOT VARY IN THICKNESS BY MORE THAN 1/4 INCH.

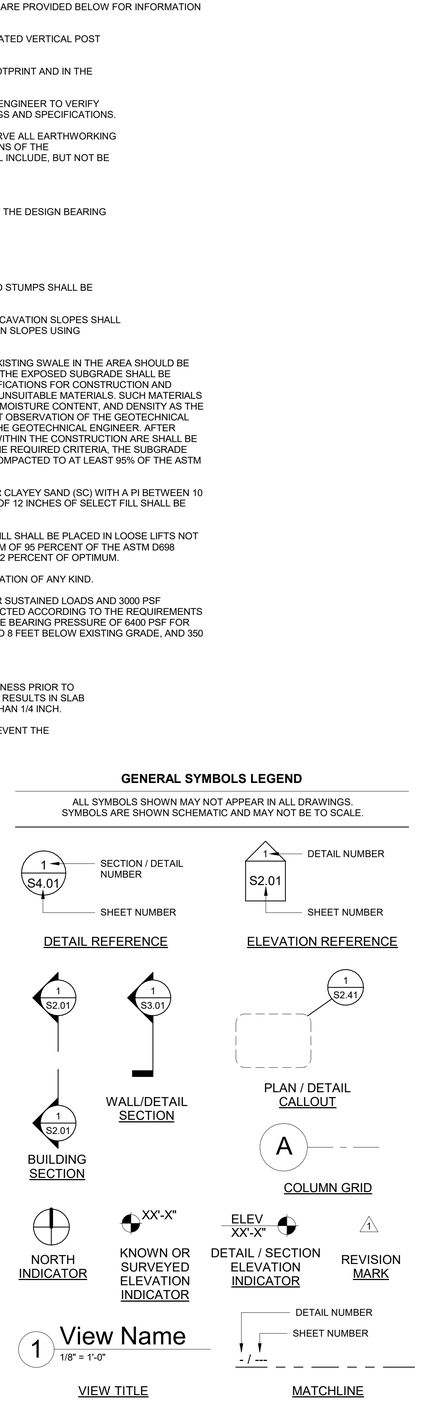
15. JOINTS IN CONCRETE ABUTTING THE BUILDING SHALL BE THROUGHLY SEALED TO PREVENT THE INFILTRATION OF SURFACE WATER.

ABBREVIATIONS

AB	ANCHOR BOLT	K	KIP (1,000 LBS)
ADH	ADHESIVE		
ADDL	ADDITIONAL	L	LENGTH
AFF	ABOVE FINISH FLOOR	LB	POUND
AGG	AGGREGATE	LF	LINEAR FOOT
ALUM	ALUMINUM	LO	LOW
APPROX	APPROXIMATE	LS	LUMP SUM
ARCH	ARCHITECTURAL		
		MAS	MASONRY
BLDG	BUILDING	MAX	MAXIMUM
BM	BEAM	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MEP	MECH / ELEC / PLUMBING
BOTT	BOTTOM	MFR	MANUFACTURER
BRG	BEARING	MIN	MINIMUM
BTW	BETWEEN	MISC	MISCELLANEOUS
		MTL	METAL
CF	CUBIC FOOT		
CIP	CAST-IN-PLACE	NTS	NOT TO SCALE
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CL	CENTER LINE		
CMU	CONCRETE MASONRY UNITS	OC	ON CENTER
COL	COLUMN	OC EW	ON CENTER, EACH WAY
CONC	CONCRETE	OH	OPPOSITE HAND
CONNX	CONNECTION	OPNG	OPENING
CONT	CONTINUOUS		
CTRL	CONTROL	PL	PLATE
		PROP	PROPOSED
DEMO	DEMOLITION	PSF	LBS PER SQ FOOT
DIA / Ø	DIAMETER	PT	POST TENSIONED
DIM	DIMENSION		
DR	DRAIN	RF	ROOF
DT	DOUBLE TEE	REINF	REINFORCING
DWG	DRAWING		
		SCHED	SCHEDULE
EA	EACH	SECT	SECTION
EF	EACH FACE	SHT	SHEET
EJ	EXPANSION JOINT	SI	SQUARE INCH
EL	ELEVATION	SF	SQUARE FOOT
ELEC	ELECTRICAL	SIM	SIMILAR
ELEV	ELEVATION	SPA	SPACE, SPACING
EMBED	EMBEDMENT / EMBEDDED	SQ	SQUARE
ENGR	ENGINEER	SR	START RAIL
EQ	EQUAL(S)	SS	STAINLESS STEEL
EW	EACH WAY	ST	STIRRUP
EXIST	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	STL	STEEL
		SY	SQUARE YARD
FF	FINISH FLOOR		
FIN	FINISH	T&B	TOP AND BOTTOM
FLR	FLOOR	TEMP	TEMPORARY, TEMPERATURE
FV	FIELD VERIFY	THD'D	THREADED
		THK	THICK
GA	GAUGE	TOC	TOP OF CONCRETE
GALV	GALVANIZE(D)	TOP	TOP OF PIER
GR	GRADE	TOS	TOP OF STEEL
GYP	GYPSUM	TOW	TOP OF WALL
		TS	TUBE STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
HCR	HORIZONTAL CURVE RADIUS		
HS	HEADED STUD	UNO	UNLESS NOTED OTHERWISE
HSA	HEADED STUD ANCHOR		
HSS	HOLLOW STRUCTURAL SECTION	VCR	VERTICAL CURVE RADIUS
HT	HEIGHT	VEH	VEHICULAR
		VERT	VERTICAL
INFO	INFORMATION		
INT	INTERIOR	W	WIDTH
		WP	WORK POINT
JT	JOINT		
		YD	YARD

GENERAL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.



PARD CAMPUS EXPANSION
8203 MILLENIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD. THE
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Revisions

No.	Date	Description

10/22/2025



Project No.:	52417.009
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Drawn By:	IS
Checked By:	JPM
Scale:	As indicated

Sheet Title
GENERAL NOTES, ABBREVIATIONS, AND SHEET INDEX

S001
Sheet Number

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STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS PREPARED IN ACCORDANCE WITH SECTION 1705 OF THE 2024 INTERNATIONAL BUILDING CODE (IBC). IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS APPLICABLE TO THE PROJECT.

THE SPECIAL INSPECTIONS ENGINEER OF RECORD SHALL KEEP RECORDS OF SPECIFIED SPECIAL INSPECTIONS AND TESTING AND SHALL FURNISH COPIES OF INSPECTION AND TESTING REPORTS TO THE OWNER'S CONSTRUCTION REPRESENTATIVE AND TO THE APPROPRIATE DESIGN PROFESSIONALS OF RECORD UPON REQUEST. DETAILED SUMMARIES OF ALL SPECIAL INSPECTION ACTIVITIES, FINDINGS, DEFICIENCIES, AND DISCREPANCIES SHALL BE FURNISHED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE AND THE APPROPRIATE DESIGN PROFESSIONALS OF RECORD AT INTERVALS NOT EXCEEDING 1 MONTH.

DISCREPANCIES FROM THE APPROVED PLANS, SPECIFICATIONS, SHOP DRAWINGS, OR DESIGN DIRECTIVES AND CODE VIOLATIONS OBSERVED DURING THE CONDUCT OF SPECIAL INSPECTIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, TO THE ATTENTION OF THE OWNER'S CONSTRUCTION REPRESENTATIVE AND TO THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF THE SPECIFIED SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES, DEFICIENCIES, AND CODE VIOLATIONS SHALL BE SUBMITTED AND APPROVED BY THE OWNER AND THE DESIGN PROFESSIONALS OF RECORD PRIOR TO FINAL INSPECTION.

STATEMENT OF INSPECTION SERVICES

QUALIFIED SPECIAL INSPECTORS SHALL BE EMPLOYED PER THE PROVISIONS OF THE CONSTRUCTION CONTRACT TO PERFORM INSPECTIONS IN ACCORDANCE WITH THE BUILDING CODE. INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE.

THE FOLLOWING SCHEDULE CONTAINS A LIST OF SPECIAL INSPECTION ACTIVITIES RELATED TO THE QUALITY ASSURANCE PLAN REQUIRED BY THE BUILDING CODE (IBC CHAPTER 17) FOR THE FABRICATION, ERECTION, AND CONSTRUCTION OF THE STRUCTURAL SYSTEMS AS GIVEN IN THE SPECIFICATIONS AND DRAWINGS OF THE PROJECT. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES. REFER TO IBC CHAPTER 17, "SPECIAL INSPECTIONS AND TESTS", FOR SPECIFIC TEST PROCEDURES.

TESTING AND INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, BUILDING OFFICIAL (IF REQUESTED), AND ARCHITECT FOR THEIR REVIEW, COMMENT, AND ACTION, AS NEEDED.

AISC CERTIFICATION IS NOT CONSIDERED TO BE FABRICATOR APPROVAL PER SECTION 1704.2.2 UNLESS SPECIFICALLY APPROVED BY THE OWNER. IN LIEU OF, OR UNTIL SUCH APPROVAL IS GRANTED, SPECIAL INSPECTION PROVISIONS FOR STRUCTURAL STEEL SHALL BE CONSIDERED TO BE APPLICABLE TO THOSE COMPONENTS FABRICATED AND / OR ASSEMBLED IN THE FABRICATION SHOP.

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3,26.5.1-26.5.3	1908.4
2. REINFORCING WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	- - X	X X -	AWS D1.4 ACI 318: 26.5.4	-
3. INSPECT ANCHORS CAST IN CONRETE	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X -	- X	ACI 318: 17.8.2.4 ACI 318:17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.4.4	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT TENDONS, AND VERIFY PLACEMENT.	X	-	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.4.7-26.4.9	1908.9
9. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH.26.8	-
10. VERIFY IN-SITE CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHOES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.10.2	-
11. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.10.1	-

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
2. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
3. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
4. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

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Revisions

No.	Description	Date

10/22/2025

IAN STENER
97144
LICENSED
PROFESSIONAL ENGINEER

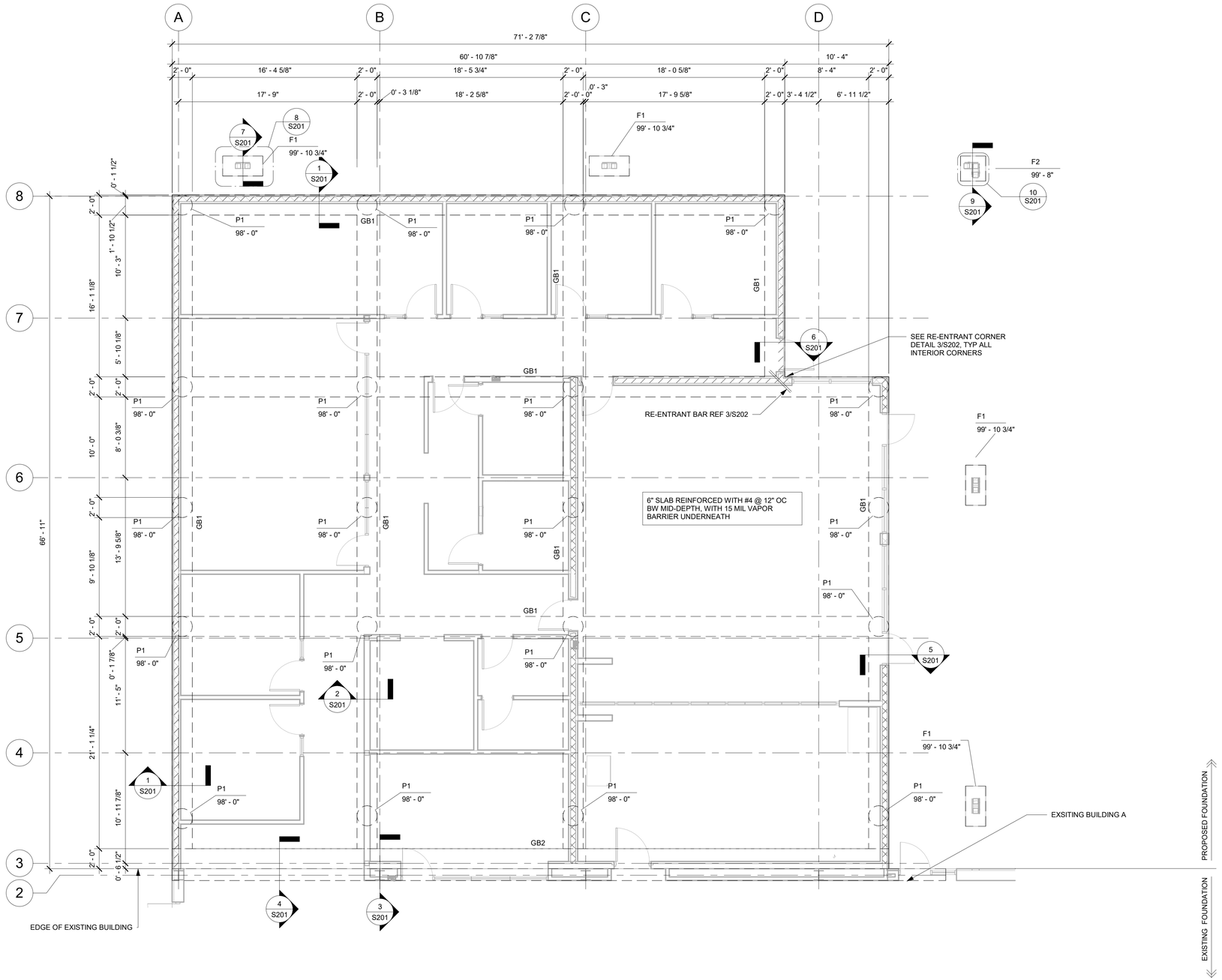
Project No.:	52417.009
Issued:	10/21/2025
Drawn By:	IS
Checked By:	JPM
Scale:	12" = 1'-0"

Sheet Title

GENERAL NOTES AND SPECIAL INSPECTIONS

S002

Sheet Number



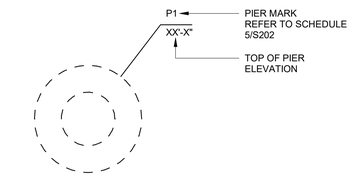
1 PARD BUILDING EXPANSION FOUNDATION PLAN

3/16" = 1'-0"

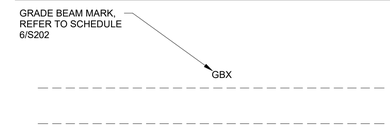
FOUNDATION PLAN NOTES

1. DATUM ELEVATION 100'-0" = ACTUAL 146.00' CONTRACTOR TO FIELD VERIFY.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND DIMENSIONS OF SLAB DEPRESSIONS.
3. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION BENEATH SLAB.
4. SLAB CONTROL JOINTS TO BE AT 20' MAX. SAW CUT OR TOOL 1" DEPTH. REFER TO 8/S202 FOR LAYOUT.
5. THE FOUNDATION SYSTEM IS PRELIMINARY AND SUBJECT TO REVISION WITH RECEIPT OF SEALED CONSTRUCTION DRAWINGS FROM THE BUILDING MANUFACTURER.

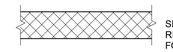
PIER LEGEND



GRADE BEAM LEGEND

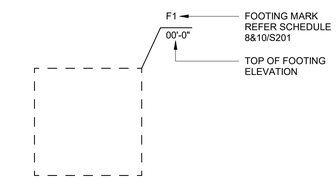


STRUCTURAL WALL LEGEND



SIPS BEARING WALL SYSTEM, DELEGATED DESIGN REFER TO SEALED CONSTRUCTION DOCUMENTS FOR WALL SYSTEM

FOOTING LEGEND



PARD CAMPUS EXPANSION
8203 MILLENIUM FOREST DRIVE
SPRING, TX 77381

THE WOODLANDS TOWNSHIP
2801 TECHNOLOGY FOREST BLVD. THE
WOODLANDS, TX 77381

halff
14800 ST. MARY'S LN.
SUITE 100
HOUSTON, TX 77079
281.423.0030 FAX
TBPE: FIRM NO. F-312

Revisions

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10/22/2025

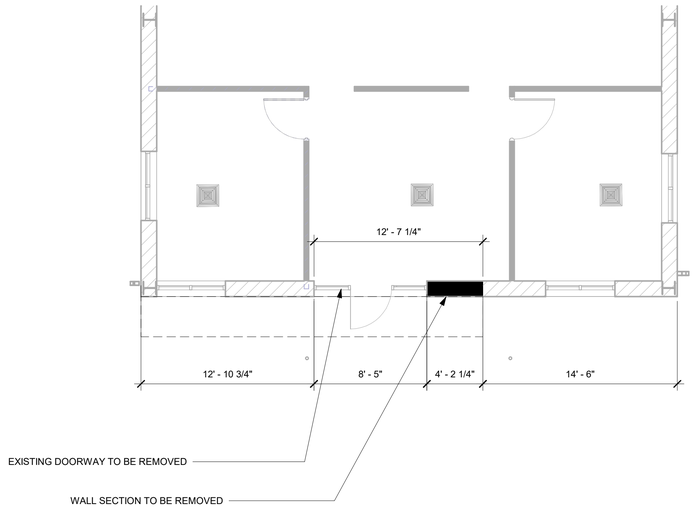
STATE OF TEXAS
IAN STEINER
74818
LICENSED
PROFESSIONAL ENGINEER

Project No.:	52417.009
Issued:	10/21/2025
Drawn By:	IS
Checked By:	JPM
Scale:	As indicated

Sheet Title
BUILDING EXPANSION FOUNDATION PLAN

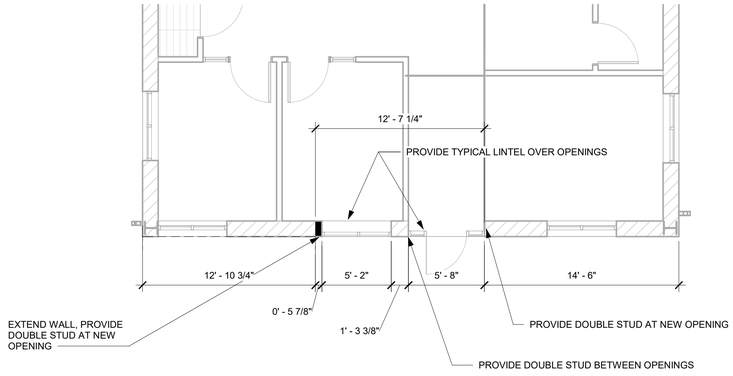
S101
Sheet Number

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1 BUILDING B DEMOLITION

3/16" = 1'-0"



NEW STUDS PRESUMED TO BE 600S162-54, GRADE 50 STUDS. ALL NEW STUDS TO MATCH EXISTING STUD DEPTH. CONTRACTOR TO FIELD VERIFY DEPTH OF STUDS DURING DEMOLITION AND INFORM ENGINEER IF DEPTH DOES NOT MATCH 6 INCHES.

2 BUILDING B MODIFICATIONS

3/16" = 1'-0"

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14800 ST. MARY'S LN.
SUITE 150
HOUSTON, TX 77079
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TBPELS FIRM NO. 312

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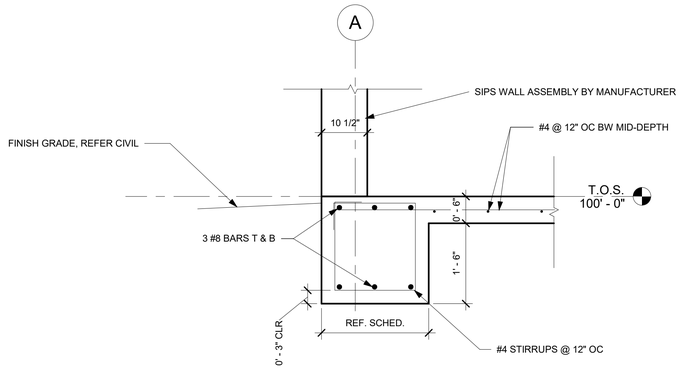
JAN STENIS
148418
LICENSED
PROFESSIONAL ENGINEER

Project No.:	52417.009
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Checked By:	JPM
Scale:	3/16" = 1'-0"

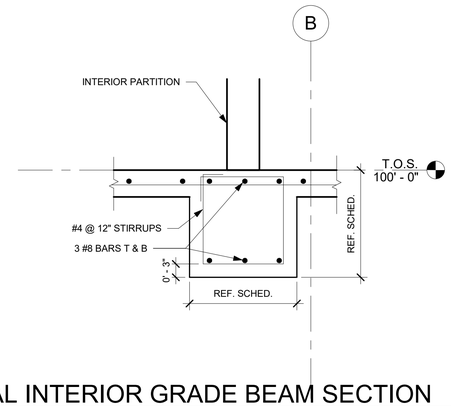
Sheet Title
BUILDING B ENTRYWAY MODIFICATIONS

S102
Sheet Number

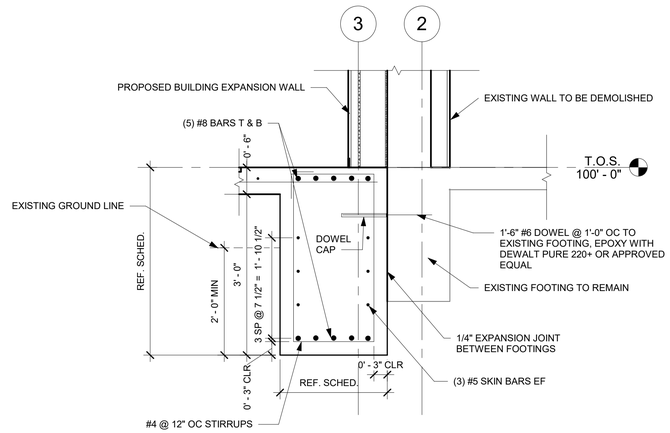
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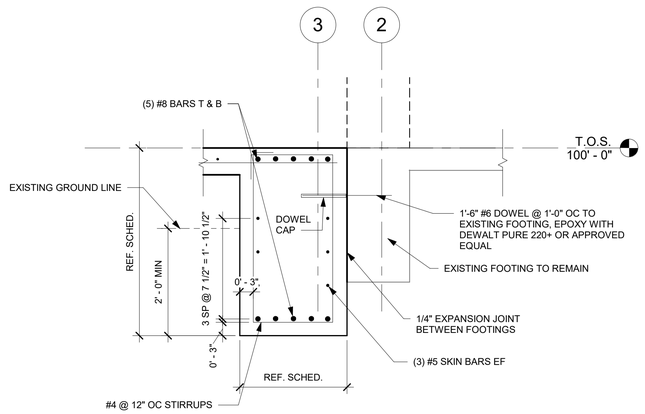
1 TYPICAL EXTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



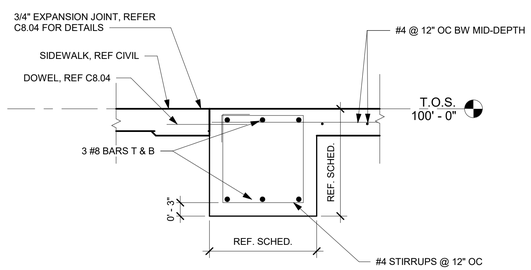
2 TYPICAL INTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



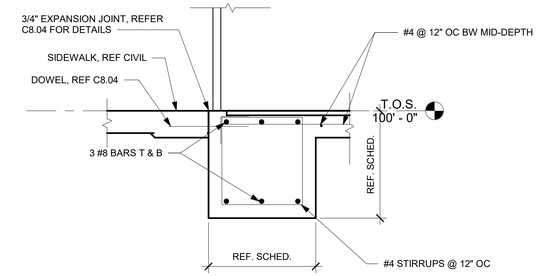
3 GRADE BEAM SECTION AT EXISTING BUILDING
3/4" = 1'-0"



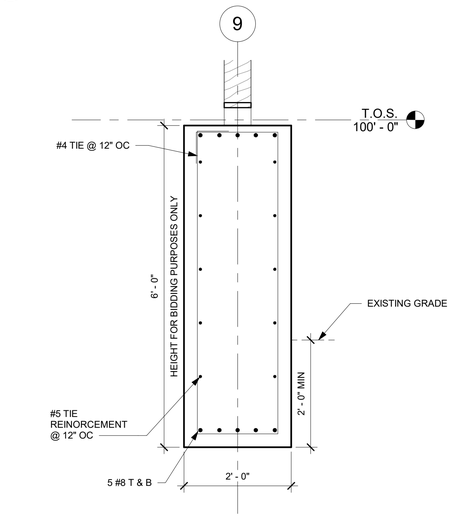
4 GRADE BEAM SECTION AT EXISTING BUILDING WITHOUT WALL
3/4" = 1'-0"



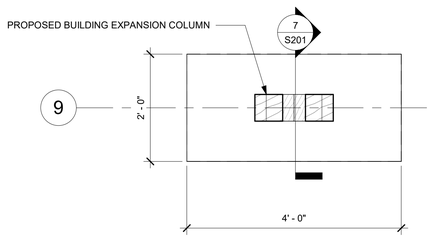
5 EXTERIOR GRADE BEAM AT MAN DOOR
3/4" = 1'-0"



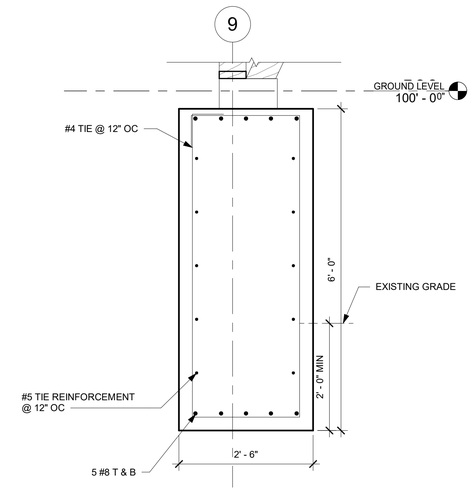
6 EXTERIOR GRADE BEAM WITH SIDEWALK
3/4" = 1'-0"



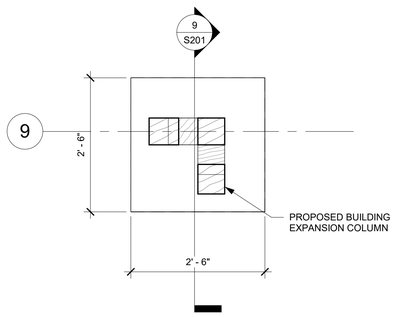
7 COLUMN FOOTING SECTION
3/4" = 1'-0"



8 COLUMN PEDESTAL PLAN
3/4" = 1'-0"



9 CORNER COLUMN FOOTING SECTION
3/4" = 1'-0"



10 CORNER COLUMN FOOTING PLAN
3/4" = 1'-0"

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halff
14800 ST. MARY'S LN.
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HOUSTON, TX 77079
281.423.0030
TBPELS FIRM NO. 312

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IAN STEINER
148418
LICENSED PROFESSIONAL ENGINEER

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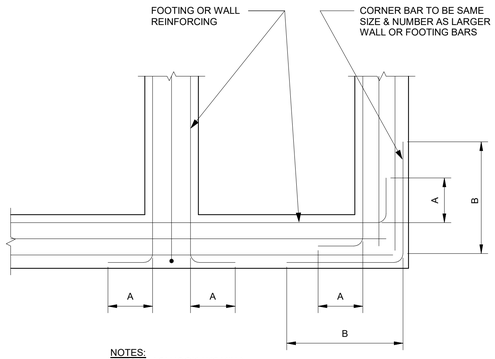
Sheet Title

FOUNDATION DETAILS

S201

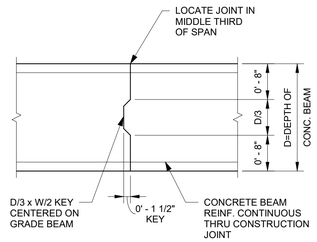
Sheet Number

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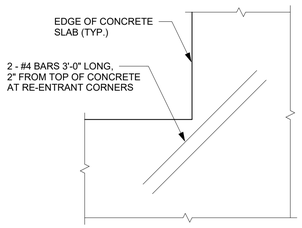


NOTES:
A = STD. ACI HOOK (12" MIN.)
B = 40 BAR DIAMETERS

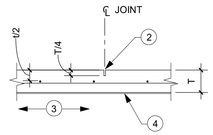
1 TYPICAL CORNER BAR DETAIL
NTS



2 TYPICAL GRADE BEAM JOINT DETAIL
NTS

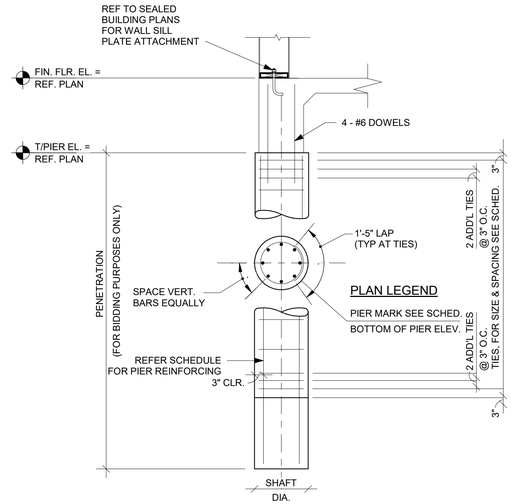


3 RE-ENTRANT CORNER BARS DETAIL
NTS



NOTES:
1. FOR SLAB THICKNESS "T", REINFORCING AND JOINT LOCATION REF. PLAN.
2. 1/8" WIDE SAWCUT AS SOON AS POSSIBLE AFTER FINISHING THE SLAB WITHOUT DISLODGING AGGREGATE. FILL SAWCUT WITH MM80 BY METZGER/ McGUIRE OR APPROVED EQUAL.
3. SUBGRADE: REF. EARTHWORK AND FOUNDATION SECTION OF GENERAL NOTES.
4. 15 MIL POLYOLEFIN VAPOR BARRIER. REF. PLAN FOR LOCATIONS.

4 TYPICAL SLAB ON GRADE DETAILS
NTS



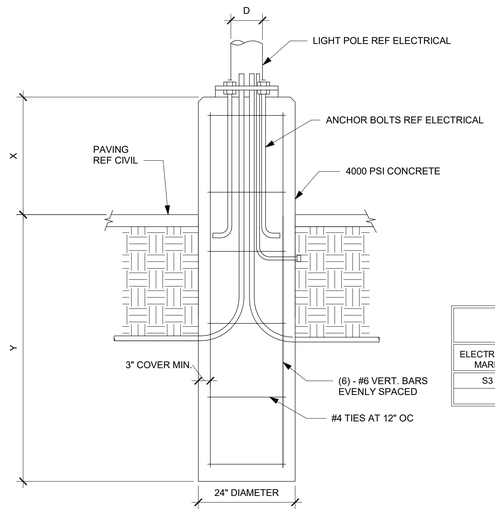
DRILLED PIER SCHEDULE					
MARK	BELL DIA.	SHAFT DIA.	VERT. BARS	TIES	PENETRATION
P1	N/A	24"	8 - # 7	# 3 @ 12"	16'-0"

NOTE: MINIMUM PENETRATION IS 12 FEET BELOW EXISTING GRADE. SCHEDULE VALUE IS FOR BIDDING PURPOSES ONLY.

5 TYPICAL DRILLED PIER DETAIL
NTS

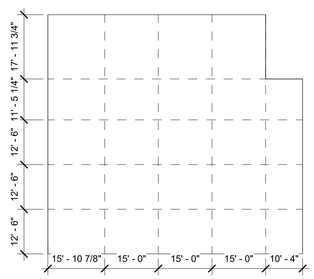
GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	TOP REINF	BOT REINF	SKIN REINF	STIRRUPS
GB1	2'- 0"	2'- 0"	(3) - #8	(3) - #8	NONE	#4 @ 10" O.C.
GB2	2'- 0"	3'- 6"	(5) - #8	(5) - #8	(3) - #5 EF	#4 @ 10" O.C.

6 GRADE BEAM SCHEDULE



LIGHT POLE FOOTING SCHEDULE					
ELECTRICAL MARK	EPA	D	X	Y	FIXTURE HEIGHT
S3	2.0	5"	36"	8'	25'

7 LIGHT POLE FOUNDATION DETAIL
NTS



8 PARD BUILDING EXPANSION SLAB CONTROL JOINTS
NTS

PARD CAMPUS EXPANSION
8203 MILLENIUM FOREST DRIVE
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TBPE: FIRM NO. 312

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TYPICAL FOUNDATION DETAILS

S202
Sheet Number

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MECHANICAL SYMBOL LEGEND

(CONTINUED)

DUCTWORK FITTINGS AND CONNECTIONS CONTD

TAKE-OFFS AND TAPS CONTINUED

SPIN-IN TAP WITH FLEX CONNECTION DOWN TO AIR DIFFUSER

FLEXIBLE DUCT CONNECTION TO RECTANGULAR DUCT WITH SPIN-IN CONNECTOR.

TRANSITIONS

CONCENTRIC TRANSITION

ECCENTRIC TRANSITION

RECTANGULAR TO ROUND DUCTWORK TRANSITION

SYMBOLS

AD — ACCESS DOOR

AP — ACCESS PANEL

FLEXIBLE CONNECTION, FLEXIBLE DUCT

VD — VOLUME DAMPER

M — MOTORIZED VOLUME DAMPER

R — RISE IN DUCT ELEVATION

D — DROP IN DUCT ELEVATION

ST — SOUND TRAP

RELATIVE ROOM PRESSURE

CONNECTION POINT OF NEW TO EXISTING

INDICATES DISCONNECTION POINT

RE: I/M-7 — REFER TO DETAIL #1 ON DRAWING M-7

MARK-# — EQUIPMENT MARK AND NUMBER. REFER TO EQUIPMENT ABBREVIATIONS ON THIS DRAWING

AIR DEVICE MARK

X/100 — AIR FLOW (CFM)

10X10 — NOM. DUCT SIZE (INCHES)

1 — KEY NOTE DESIGNATIONS

UCD 1" — UNDERCUT DOOR 1"

INDICATES SECTION NUMBER
INDICATES DRAWING NUMBER

INDICATES DETAIL NUMBER
INDICATES DRAWING NUMBER

HVAC NOTES AND DESIGNATIONS

DAMPERS

BDD — BACKDRAFT DAMPER

FD — FIRE DAMPER AND ACCESS DOOR

MD — MOTORIZED DAMPER

SD — SMOKE DAMPER AND ACCESS DOOR

FSD — FIRE/SMOKE DAMPER AND ACCESS DOOR

VD — MANUAL VOLUME DAMPER

M — MANUAL DAMPER

SENSORS

H — H - HUMIDITY SENSOR OR HUMIDISTAT

T — T - TEMPERATURE SENSOR OR THERMOSTAT

DSZ — DZC - DIGITAL ZONE CONTROLLER

CO — C - CO2 SENSOR

OSD — OUTSIDE SENSING DEVICE

ZS — ZONE SENSOR

F — FIRESTAT

P — PRESSURE MONITOR

SD — SMOKE DETECTOR

MECHANICAL SYMBOL LEGEND

(CONTINUED)

MECHANICAL PIPING SYMBOLS LEGEND

(CONTINUED)

TEMPERATURE AND PRESSURE RELIEF VALVE

STEAM TRAP

STEAM MOISTURE SEPARATOR

STEAM CONTROL VALVE

EP — CONTROL, ELECTRIC-PNEUMATIC

PE — CONTROL, PNEUMATIC-ELECTRIC

RED. PRESS PRINCIPAL BACKFLOW PREVENTER

CHWR — CHILLED WATER RETURN

CHWS — CHILLED WATER SUPPLY

CWR — CONDENSER WATER RETURN

CWS — CONDENSER WATER SUPPLY

HWR — HOT WATER RETURN

HWS — HOT WATER SUPPLY

CD — CONDENSATE DRAIN

REF — REFRIGERANT LINES

GENERAL DUCTWORK

SINGLE LINE	DOUBLE LINE	(ROUND) SINGLE LINE	(ROUND) DOUBLE LINE	
				EXISTING DUCT DOWN
				EXISTING DUCT UP
				EXHAUST DUCT DOWN
				EXHAUST DUCT UP
				RETURN DUCT DOWN
				RETURN DUCT UP
				SUPPLY DUCT DOWN
				SUPPLY DUCT UP
				EXISTING DUCT BEING DEMOLISHED DOWN
				EXISTING DUCT BEING DEMOLISHED UP

RETURN AIR/TRANSFER AIR BOOT

DUCTWORK FITTINGS AND CONNECTIONS

ELBOWS

DUCT ELBOWS WITH TURNING VANES

STANDARD RADIUS ELBOW

SPLITS AND TEES

RECTANGULAR TEE FITTING

RADIUS TEE FITTING

RECTANGULAR SPLIT FITTINGS WITH SPLITTER DAMPER

RADIUS SPLIT FITTINGS

TAKE-OFFS AND TAPS

RECTANGULAR DUCT TAP WITH VOLUME DAMPER

ROUND DUCT TAP WITH VOLUME DAMPER

STANDARD BRANCH TAKE-OFF WITH VOLUME DAMPER

MECHANICAL SYMBOL LEGEND

(CONTINUED)

MECHANICAL PIPING SYMBOLS LEGEND

PIPE UP

PIPE DOWN

CAP

90° ELBOW

45° ELBOW

45° ELBOW DOWN (OGEE)

TEE

TEE UP

TEE DOWN

TOP CONNECTION

CROSS

UNION (SCREWED)

UNION (FLANGED)

PIPE BREAK

CONCENTRIC REDUCER

ECCENTRIC REDUCER

END SUCTION PUMP

OR — BALL VALVE

BUTTERFLY VALVE

ISOLATION VALVE

GATE VALVE WITH QUICK DISCONNECT

TWO-WAY VALVE (PNEUMATIC)

THREE-WAY VALVE (PNEUMATIC)

BALANCING VALVE

PIPE ALIGNMENT GUIDE

PIPE ANCHOR

FLANGED END

H — HUMIDIFIER

HEAT TRACING ON PIPE

D/P — DIFFERENTIAL PRESSURE SENSOR

NEW CONSTRUCTION

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

CENTER LINE

Ø — DIAMETER

CHECK VALVE, SWING GATE

ANGLE PRESSURE RELIEF VALVE

PRV — PRESSURE REDUCING VALVE

LOCK SHIELD

QUICK OPENING/CLOSING VALVE

PRESSURE REGULATOR

STRAINER W/BLOW DOWN VALVE

THREE-WAY VALVE (ELECTRIC)

TWO-WAY VALVE (ELECTRIC)

FLEXIBLE CONNECTION

EJ — EXPANSION JOINT

THERMOMETER

TW — THERMOMETER WELL

TEST PLUG

PRESSURE GAUGE W/GAUGE COCK

MANUAL AIR VENT

AUTOMATIC AIR VENT

S — SOLENOID VALVE

FS — FLOW SWITCH

ABBREVIATIONS

MECHANICAL EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING
ACD	AUTOMATIC CONTROL DAMPER
ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AF	AIR FOIL
AHU	AIR HANDLING UNIT
ALD	ACOUSTICALLY LINED DUCTWORK
ATD	AIR TERMINAL DEVICE
AVS	AIR VOLUME TRAVERSE STATION
BDD	BACKDRAFT DAMPER
BI	BACKWARD INCLINED
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
DIFF	DIFFUSER
DWDI	DOUBLE WIDTH DOUBLE INLET
DWSI	DOUBLE WIDTH SINGLE INLET
DX	DIRECT EXPANSION
EF	EXHAUST FAN
F	FAN
FC	FORWARD CURVED
FA	FREE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER (W/ACCESS DOOR)
FLTR	FILTER
FPI	FINS PER INCH
FPT	FAN POWERED TERMINAL BOX
GE	GENERAL EXHAUST
GIH	GRAVITY INTAKE HOOD
GRH	GRAVITY RELIEF HOOD
H	HUMIDIFIER
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LUVR	LOUVER
LVDR	LOUVERED DOOR
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OED	OPEN END DUCT
P	PUMP
PHC	PREHEAT COIL
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RHC	REHEAT COIL
RLF	RELIEF
RR	RETURN REGISTER
RTU	ROOF TOP UNIT
RTAHU	ROOF TOP AIR HANDLING UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SATT	SOUND ATTENUATOR
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SFD	COMBINATION AUTOMATIC SMOKE/FIRE DAMPER WITH ACCESS DOOR
SG	SUPPLY GRILLE
SM	SHEETMETAL
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SWDI	SINGLE WIDTH DOUBLE INLET
SWSI	SINGLE WIDTH SINGLE INLET
TE	TOILET EXHAUST
TF	TRANSFER FAN
TG	TRASNFER GRILLE
TR	TRANSFER
TSP	TOTAL STATIC PRESSURE
UC	UNDERCUT DOOR
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VD	VOLUME DAMPER
VVE	VARIABLE VOLUME SUPPLY AIR TERMINAL BOX
WMS	VARIABLE VOLUME EXHAUST AIR TERMINAL BOX

HVAC ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ASYM	ASYMETRICAL
AUX	AUXILLIARY
BFP	BACK FLOW PREVENTER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
COND	CONDENSATE
CONT	CONTINUOUS
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
DIA	DIAMETER
(E)	EXISTING
EXH	EXHAUST
EQMT	EQUIPMENT
FF	FINISHED FLOOR
FLR	FLOOR
FT	FEET
FD	FIRE DAMPER (W/ACCESS DOOR)
GALV	GALVANIZED
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCHES
INSUL	INSULATION
KW	KILOWATT
LBS	POUNDS
MACH	MACHINE
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MTD	MOUNTED
MTR	MOTOR
NTS	NOT TO SCALE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
O.A.	OUTSIDE AIR
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
SD	SECONDARY DRAIN
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
VD	VOLUME DAMPER
WG	WATER GAUGE

HVAC AIR DIFFUSERS

SIDEWALL SUPPLY/EXHAUST REGISTER

CEILING EXHAUST AIR GRILLE

CEILING RETURN AIR GRILLE

RETURN AIR GRILLE WITH BOOT

STANDARD SUPPLY AIR DIFFUSERS (RECTANGULAR AND ROUND) SHADING DENOTES BLANK-OFF

CONCENTRIC DIFFUSER

CITY STAMP APPROVAL

DRAWING LIST

M0.01	MECHANICAL SYMBOLS, LEGENDS AND GENERAL NOTES
M0.02	MECHANICAL SYMBOLS, LEGENDS AND NOTES
M0.03	MECHANICAL SPECIFICATIONS
M0.04	MECHANICAL SPECIFICATIONS
M1.02A	MECHANICAL DEMO DUCTWORK PLAN - BLDG A
M1.02B	MECHANICAL DEMO DUCTWORK PLAN - BLDG B
M2.01AC	MECHANICAL DUCTWORK PLAN - BLDG A&C
M2.01B	MECHANICAL DUCTWORK PLAN - BLDG B
M3.01	MECHANICAL PIPING PLAN - BLDG A&C
M8.01	MECHANICAL SCHEDULES
M9.01	MECHANICAL DETAILS
M9.02	MECHANICAL DETAILS

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MECHANICAL SYMBOLS, LEGENDS AND GENERAL NOTES

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LEGEND NOTES

1. THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.
2. THE GENERAL NOTES ON THIS SHEET APPLY TO ALL HVAC DRAWINGS ASSOCIATED WITH THIS PROJECT.

DEMO GENERAL NOTES

1. REFER TO MECHANICAL INFORMATION SHEET FOR ABBREVIATIONS AND NOTES.
2. DEMOLITION WORK SHALL BE PERFORMED TO ACCOMPLISH REPLACEMENT WORK WITH A MINIMUM AMOUNT OF SYSTEM DOWNTIME.
3. SCHEDULE ALL SHUTDOWNS AND DEMOLITION WORK IN ADVANCE WITH OWNER.
4. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE CONDITION OF EXISTING EQUIPMENT, EXACT SIZES AND LOCATION OF EXISTING DUCT, PIPING, EQUIPMENT, ETC. BEFORE DEMOLITION WORK BEGINS, REPORT ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS TO ARCHITECT AND ENGINEER PRIOR TO THE START OF DEMOLITION WORK.
5. CONTRACTOR SHALL REMOVE EXISTING HVAC EQUIPMENT, ASSOCIATED MATERIALS, AND SUPPORTS AS INDICATED. ALL UNUSED EQUIPMENT AND MATERIALS SHALL BE REMOVED BACK TO THE SOURCE. PATCH EXISTING CONDITIONS TO REMAIN AS NECESSARY. COORDINATE WITH OWNER FOR EQUIPMENT TO BE RETURNED TO OWNER. DISPOSE OF ALL UN-WANTED EQUIPMENT.
6. BALANCING CONTRACTOR SHALL MEASURE AND RECORD EXISTING SYSTEMS AFFECTED BY THIS RENOVATION PRIOR TO THE DEMOLITION WORK. MEASUREMENTS SHALL INCLUDE SUPPLY AND RETURN AIR FLOWS AT EXISTING AIR HANDLING UNITS; SUPPLY, RETURN AND EXHAUST AIR FLOW AT ALL DUCT MAINS, DIFFUSERS AND BRANCHES SERVING EXISTING AREAS TO REMAIN; AND THE FLOW AT PUMPS, BALANCING CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ALL DEFICIENCIES FOUND IN ANY OF THE SYSTEMS. FOR ALL AHU'S SERVING THE SPACE RECORD THE CURRENT STATIC PRESSURE SETPOINT, THE CURRENT STATIC PRESSURE, MOTOR HP, MOTOR RPM, CURRENT FAN RPM, CHILLED WATER GPM, CHILLED WATER ENTERING AND LEAVING TEMPS, AND RECORD MOTOR AMPS. FOR ALL EXHAUST FANS SERVING THE SPACE RECORD THE CFM AT THE FAN, STATIC PRESSURE AT FAN, FAN MOTOR HP, MOTOR RPM AND FAN RPM.
7. EXISTING AIR DISTRIBUTION SYSTEMS SHALL BE RE-BALANCED TO MEET THE EXISTING AIR FLOW AS WELL AS THE FLOW REQUIREMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS.

MECHANICAL COMMISSIONING

1. CONTRACTOR TO PROVIDE COMMISSIONING FOR THIS PROJECT.
2. CURRENT INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIRES COMMISSIONING PER SECTION 408.
3. PROVIDE THE DOCUMENTATION REQUIRED PER 2021 IECC 408.2.4.
4. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING MECHANICAL FUNCTIONAL TESTING WITH COMMISSIONING AGENT PRIOR TO FINAL MECHANICAL INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
5. NOTIFY COMMISSIONING AGENT AT A MINIMUM OF TWO WEEKS PRIOR TO PERFORMING EACH FUNCTIONAL TEST.

HVAC PROJECT NOTES

1. GENERAL NOTES FROM THIS LIST SHALL APPLY TO THE ENTIRE MECHANICAL DESIGN.
2. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE LOCAL MECHANCIAL CODE, THE LOCAL BUILDING CODES, ADA, OTHER AUTHORITIES HAVING JURISDICTION, AND ENERGY CONSERVATION CODE.
3. COORDINATE WITH STRUCTURE AND OTHER DISCIPLINES.
4. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR CREATING SHOP DRAWINGS AND FOR COORDINATING THE EXACT ROUTING OF ALL DUCTWORK AND PIPING WITH EXISTING FIELD CONDITIONS AND WITH OTHER TRADES.
5. PROVIDE VOLUME DAMPER AT SPIN-IN CONNECTION OF DIFFUSER BRANCH INCLUDING THOSE CONNECTING TO THE BOTTOM OF MAIN TRUNK. WHERE VOLUME DAMPER IS ACCESSIBLE.PROVIDE YOUNG REGULATORS FOR ALL VOLUME DAMPERS ABOVE INACCESSIBLE CEILINGS UNLESS OTHERWISE NOTED. COORDINATE CEILING MOUNTED ADJUSTING PORTS WITH EXISTING CEILING ELEMENTS, LINE UP FOR VISUAL PURPOSES. PROVIDE PORT LOCATIONS TO ARCHITECT FOR APPROVAL.
6. MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCES ON ALL EQUIPMENT.
7. PROVIDE ACCESS CEILING PANELS TO MOTORIZED DAMPERS, VALVES, AND EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
8. SEAL ALL DUCT AND PIPE PENETRATIONS THRU EXTERIOR WALLS AIRTIGHT WITH WEATHERPROOF SEALANT.
9. FLEX DUCTS SHALL BE 5'-0" MAX. USE RIGID DUCTS IF LENGTH REQUIRED IS MORE THAN 5'-0". FLEX DUCTS SHALL NOT HAVE KINKS THAT WOULD OBSTRUCT AIR FLOW. SIZE FLEX DUCT SUCH THAT PRESSURE DROP IS NOT MORE THAN .08" PER 100'.
10. COORDINATE LOCATIONS OF AIR DEVICES WITH LIGHT FIXTURES AND ARCHITECTURAL CEILING DESIGN.
11. PRIOR TO ORDERING SHEET METAL FIELD VERIFY AND COORDINATE EXACT DUCT ROUTING WITH NEW AND EXISTING STRUCTURAL CONDITIONS.
12. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF NEW SYSTEMS PRIOR TO FABRICATION AS RISES, DROPS, AND OFFSETS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
13. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE OFFSETS AND CLEARANCES AS REQUIRED
14. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE OR IN FURR DOWNS WHERE SHOWN.
15. COORDINATE FINAL THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS WITH ARCHITECT. DO NOT LOCATE THERMOSTATS OR TEMPERATURE SENSORS BEHIND DOORS OR EQUIPMENT
16. UNLESS SPECIFICALLY INDICATED ALL DUCT TRANSITIONS SHALL BE SMOOTH AND GRADUAL WITH MAXIMUM DIVERGENT ANGLE OF 15°.
17. PROVIDE MINIMUM 6" WIDE FLEXIBLE CONNECTOR TO CONNECT DUCTS TO AIR HANDLING UNITS, FAN COIL UNITS, FAN, ROOF TOP UNITS, AND WHERE INDICATED ON THE DRAWINGS.
18. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, CONDUIT STARTERS ETC. REQUIRED TO MAKE THE HVAC CONTROL SYSTEM FULLY OPERATIONAL IN ACCORDANCE TO PLANS AND SPECIFICATIONS. WIRING SHALL INCLUDE 120 V AND LOW VOLTAGE WIRING REQUIRED FOR HVAC CONTROL SYSTEMS. PROVIDE CONTROLS CAPABLE CONTROLLING MULTI-STAGE HEATING. SUBMIT CONTROL WIRING DIAGRAM TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING OR INSTALLING CONTROL SYSTEM. ALL CONTROL COMPONENTS AND MATERIAL SHALL BE COMPATIBLE WITH THE EQUIPMENT IT SERVES.
19. PROVIDE ALL ACCESSORIES FOR LONG LINE SET REFRIGERANT LINES AS REQUIRED BY MANUFACTURER. THIS INCLUDES CRANKCASE HEATER, TXU, HEADSTART ASSIST AND LIQUID LINE SOLENOID. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS SUCH THAT LONG LINE SET LOSSES ARE MINIMUM. USE LONG RADIUS ELBOWS AND HARD DRAWN COPPER TUBES. COORDINATE WITH MANUFACTURER.
20. ALL DUCT DIMENSIONS SHOWN ON PLANS ARE INTERNAL FREE AREA DIMENSIONS. PROVIDE ACCESS DOORS AND PANELS FOR HVAC ITEMS/COMPONENTS THAT MAY REQUIRED SERVICE ABOVE NON-ACCESSIBLE CEILINGS. COORDINATE ALL PANEL LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
21. ALL SUPPLY AIR CEILING DEVICES SHALL BE INSULATED ON TOP OF DEVICES TO PREVENT CONDENSATION. INSULATE DEVICES, WITH 1-1/2" WRAPAROUND INSULATION AND TOTALLY COVER ALL SURFACES, SECURE INSULATION IN PLACE WITH TAPE. APPLY INSULATION PRIOR TO MOUNTING AIR DEVICES.
22. AIRFLOW OFFSETS NOTED ARE INTENDED TO PROVIDE INITIAL VALUES FOR THE TEST AND BALANCE CONTRACTOR. FINAL AIRFLOW OFFSETS ARE TO BE DETERMINED DURNING FUNCTIONAL TESTING AND FINAL VOLUMETRIC FLOW RATES SHALL BE DOCUMENTED ON AS-BUILT DRAWINGS.
23. LINES THAT ARE BOLD ARE TO BE NEW CONSTRUCTION. LINES THAT ARE HALFTONED ARE TO BE EXSITING TO REMAIN. LINES THAT ARE BOLD AND DASHED ARE TO BE DEMOLISHED.

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MECHANICAL SYMBOLS, LEGENDS AND NOTES

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BASIC REQUIREMENTS

A. CODES AND STANDARDS:

1. ALL WORK SHALL COMPLY WITH THE MOST RECENTLY REVISED VERSIONS OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES AND APPLICABLE UTILITIES. NONE OF THE TERMS OR PROVISIONS OF THIS SPECIFICATION SHALL BE CONSTRUED AS WAIVING ANY PART OF THE RULES, REGULATIONS OR REQUIREMENTS OF THESE AUTHORITIES.

B. DRAWINGS AND SPECIFICATIONS

1. DRAWINGS: THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE APPROXIMATE LOCATIONS OF THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS, FIRE PROTECTION SYSTEMS, PLUMBING EQUIPMENT, FIXTURES AND PIPING SYSTEMS, EXCEPT WHERE SPECIFIC LOCATIONS ARE NOTED AND DIMENSIONED ON THE DRAWINGS. ALL ITEMS ARE SHOWN APPROXIMATELY TO SCALE. THE INTENT IS TO SHOW HOW THESE ITEMS SHALL BE INTEGRATED INTO THE CONSTRUCTION. LOCATE ALL ITEMS BY ON THE JOB MEASUREMENTS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. COORDINATE WITH OTHER TRADES.

C. COMPLETENESS OF WORK

1. THE CONTRACT DOCUMENTS DEPICT MECHANICAL AND PLUMBING SYSTEMS WHICH ARE INTENDED TO BE COMPLETE AND FUNCTIONING SYSTEMS. ALL PRODUCTS, MATERIALS, AND LABOR NECESSARY TO RENDER A FULLY FUNCTIONAL SYSTEM TO FULFILL THE DESIGN INTENT SHOWN ON THE DOCUMENTS SHALL BE PROVIDED BY THE CONTRACTOR.

2. CATALOG NUMBERS REFERENCED THROUGHOUT THE DIVISION 15 DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY A GENERAL UNDERSTANDING OF THE TYPE AND QUALITY OF THE PRODUCT REQUIRED. WHERE WRITTEN DESCRIPTIONS DIFFER FROM INFORMATION CONVEYED BY A CATALOG NUMBER, THE WRITTEN DESCRIPTION SHALL GOVERN. NO EXTRA SHALL BE ALLOWED BECAUSE A CATALOG NUMBER IS FOUND TO BE INCOMPLETE OR OBSOLETE.

D. COORDINATION

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL ITEMS THAT WILL AFFECT THE INSTALLATION OF THE WORK OF THIS DIVISION. THE COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VOLTAGE, AMPACITY, CAPACITY, ELECTRICAL/PIPING CONNECTIONS, STRUCTURAL SUPPORTS, SPACE REQUIREMENTS, LOCATING DEVICES IN ARCHITECTURAL FINISH ELEMENTS, STAGING THE CONSTRUCTION AND BUILDING REQUIREMENTS, AND SPECIAL CONDITIONS.

2. BY SUBMITTING SHOP DRAWINGS ON THE PROJECT, THIS CONTRACTOR IS INDICATING THAT ALL NECESSARY COORDINATION HAS BEEN COMPLETED AND THAT THE SYSTEMS, PRODUCTS AND EQUIPMENT SUBMITTED CAN BE INSTALLED IN THE BUILDING AND WILL OPERATE AS SPECIFIED AND INTENDED, IN FULL COORDINATION WITH ALL OTHER DISCIPLINES.

E. EQUIPMENT NOISE AND VIBRATION

1. IT IS THE INTENT TO SPECIFY AND FOR THE CONTRACTOR TO INSTALL SYSTEMS THAT ARE QUIET AND FREE OF VIBRATION. EQUIPMENT SHALL BE BALANCED AND VIBRATION ISOLATED TO MEET THE REQUIREMENTS SPECIFIED HEREIN FOR BOTH THE EQUIPMENT ITSELF AND CONDITIONS WITHIN OCCUPIED SPACES. THIS CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND INSTALLING EQUIPMENT THAT IS QUIET IN OPERATION AS COMPARED TO OTHER AVAILABLE EQUIPMENT OF ITS SIZE, CAPACITY, AND TYPE.

2. EQUIPMENT NOT MEETING THESE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR TO AN ACCEPTABLE LEVEL BUT WITHIN THE REQUIREMENTS OF THE SPECIFICATIONS AT NO COST TO THE OWNER, ARCHITECT OR ENGINEER.

3. AIR DISTRIBUTION EQUIPMENT SHALL BE SOUND TESTED AT THE DESIGN OPERATING CONDITIONS AND SHALL NOT EXCEED AN NC OF 35 AT RATED CFM. A LOWER NC MAY BE SPECIFIED ON EQUIPMENT AND AIR DEVICE SCHEDULES. THE NC LISTED ON THE DRAWINGS GOVERNS.

4. NOISE LEVEL: UNLESS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, THE NOISE LEVEL IN ALL OCCUPIED SPACES SHALL NOT EXCEED THE "LOWEST VALUE IN THE RANGE" OF THE NOISE CRITERIA CURVES PUBLISHED IN THE CURRENT FUNDAMENTALS EDITION OF THE ASHRAE GUIDE AND DATA BOOK. THE NOISE CRITERIA CURVES SHALL BE BASED ON ANSI STANDARD S1.6-1967 OCTAVE BANDS AND A SOUND PRESSURE LEVEL IN DECIBELS REFERENCED TO 0.002 MICROBARS. SOUND LEVELS IN OCCUPIED SPACES MUST MEET THE DESIGN CRITERIA WITH ALL CONSTRUCTION IN PLACE.

5. VERIFICATION: SHOULD A QUESTION ARISE REGARDING THE ACCEPTABLE LEVEL OF NOISE OR VIBRATION IN A PARTICULAR SPACE OR PIECE OF EQUIPMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED ACOUSTICAL CONSULTANT TO DETERMINE ACTUAL NOISE/VIBRATION CONDITIONS.

F. WARRANTIES AND GUARANTEES

1. GENERAL: CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND EQUIPMENT INSTALLED BY HIM AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF TWELVE (12) MONTHS AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER, AND HE SHALL REPAIR OR REPLACE ANY MATERIALS OR EQUIPMENT DEVELOPING SUCH DEFECTS WITHIN THAT TIME, PROMPTLY ON DUE NOTICE GIVEN HIM BY THE OWNER AND AT CONTRACTOR'S SOLE COST AND EXPENSE.

2. EQUIPMENT: ALL EQUIPMENT BEARING A MANUFACTURER'S GUARANTEE SHALL BE CONSTRUED TO HAVE AN EXTENDED GUARANTEE TO THE OWNER BY THE MANUFACTURER. ANY SUCH EQUIPMENT THAT PROVES DEFECTIVE IN MATERIALS OR WORKMANSHIP WITHIN THE GUARANTEE PERIOD IS TO BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S GUARANTEE.

G. BASE BUILDING STANDARDS (WHERE APPLICABLE)

1. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A LEVEL OF QUALITY THAT MEETS OR EXCEEDS APPLICABLE CODES AND OWNERS EXPECTATIONS. IF ANY PORTION OF THESE SPECIFICATIONS ARE DIFFERENT THAT THE BUILDING STANDARDS, THIS SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY TO DETERMINE WHICH IS THE CORRECT SPECIFICATION. ANY CHANGE WILL NOT BE CONSIDERED A CHANGE ORDER AS THE CONTRACTOR SHOULD BID ON THE MOST STRINGENT OF THE TWO.

H. SYSTEM CLEANING

1. DUCTWORK: THE DUCT SYSTEM SHALL BE KEPT CLEAN AND FREE FROM DUST AND DIRT DURING THE FABRICATION AND ERECTION PROCESS. WIPE EACH SECTION OF DUCT DOWN PRIOR TO HANGING IN PLACE. OPEN ENDS OF DUCT SYSTEMS SHALL BE SEALED WITH SHEET PLASTIC UNTIL FINAL CONNECTION TO AIR DEVICES HAS BEEN MADE. CLEAN ALL INTERIOR SURFACES OF DUCTWORK PRIOR TO STARTING THE SYSTEM FAN. REPAIR ALL TEARS IN INTERNAL DUCT LINER WITH MASTIC RATED FOR THE INSULATION SYSTEM.

2. EQUIPMENT: KEEP EQUIPMENT CLEAN AND DRY DURING THE CONSTRUCTION PROCESS. PRIOR TO START UP, INSPECT AND CLEAN ALL INTERIOR EQUIPMENT SURFACES, CLEAN AND REPAIR TORN INSULATION, REMOVE ALL DIRT AND DEBRIS. PROVIDE TEMPORARY FILTER MEDIA AS REQUIRED FOR UNIT OPERATION PRIOR TO FINAL COMMISSIONING.

GENERAL MECHANICAL NOTES

A. BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR WHOSE WORK IS INVOLVED TO VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN HIS FINAL PRICE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.

B. THE CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.

C. WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ENFORCING AUTHORITY, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.

D. ALL ITEMS OF EQUIPMENT AND ALL MATERIALS FOR WHICH APPROVAL STANDARDS HAVE BEEN ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC. (UL), FACTORY MUTUAL (FM), CERTIFIED BALLAST MANUFACTURER (CBM), ELECTRICAL TESTING ASSOCIATION (NEMA) SHALL BE SO APPROVED AND SHALL BEAR APPROVAL LABELS.

E. PENETRATIONS THROUGH FLOORS OR FIRE-RATED CONSTRUCTION SHALL BE FIRESAFED TO COMPLY WITH ASTM E-814 (UL 1479), AND LOCAL CODE REQUIREMENTS.

SUBMITTALS AND SHOP DRAWINGS

A. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH PRODUCT DATA AND SHOP DRAWINGS FOR ALL MATERIALS & EQUIPMENT SPECIFIED BELOW. SUBMITTALS SHALL BE PROVIDED IN AN ELECTRONIC FORMAT. SUBMITTAL DATA SHALL INCLUDE:

1. COVER SHEET WITH NAMES AND ADDRESSES OF PROJECT, ARCHITECT MEP ENGINEER, GENERAL CONTRACTOR & SUB CONTRACTOR.

2. DRAWING REFERENCE NUMBER, PRODUCT NAME AND/OR DESCRIPTION.

3. INDEX OF ALL DATA IN SUBMITTAL.

4. DIMENSIONAL DATA AND SKETCHES SHOWING THAT SUBMITTED EQUIPMENT WILL FIT INTO SPACE AVAILABLE AND WILL HAVE REQUIRED CODE AND MAINTENANCE CLEARANCES.

5. IDENTIFICATION OF EACH ITEM MATCHING THAT INDICATED ON THE DRAWINGS.

6. SUFFICIENT PERFORMANCE DATA, CAPACITY, SOUND DATA, DIAGRAMMATIC DATA AND DESCRIPTIVE INFORMATION TO SHOW ITS COMPLIANCE'S WITH THE CONTRACT DOCUMENTS. OPTIONS OR SPECIAL REQUIREMENTS SHALL BE CLEARLY INDICATED. APPLICABLE INFORMATION SHALL BE CLEARLY INDICATED AND NON APPLICABLE DATA SHALL BE CROSSED OFF.

7. MATERIALS AND EQUIPMENT PURCHASED OR INSTALLED WITHOUT A "NO EXCEPTIONS TAKEN" SHOP DRAWING REVIEW SHALL BE AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL AND REPLACEMENT OF SUCH MATERIALS WHICH IS JUDGED UN-SATISFACTORY BY THE ENGINEER FOR ANY REASON SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

8. ANY ITEMS KNOWINGLY SUBMITTED THAT DO NOT COMPLY WITH SPECIFICATIONS SHALL BE LISTED WITH EXPLANATION AS TO WHY THEY ARE BEING SUBMITTED.

B. REQUIRED SUBMITTALS/SHOP DRAWINGS.

1. DUCT CONSTRUCTION AND ROUTING
2. DUCTWORK INSULATION
3. FAN AND COIL UNITS
4. FANS
5. GRILLES, REGISTERS AND DIFFUSERS
6. CONTROLS

GENERAL MATERIALS AND METHODS

A. HANGERS AND SUPPORTS

1. GENERAL: PROVIDE PIPE HANGERS AND SUPPORT MATERIALS AS SPECIFIED HEREIN. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE THOROUGHLY AND SUBSTANTIALLY SUPPORTED IN ACCORDANCE WITH ANSI B31.1 STANDARD CODE FOR PRESSURE PIPING AND MANUFACTURERS' STANDARDIZATION SOCIETY MSS SP-69 PIPE HANGERS AND SUPPORTS - SELECTION AND APPLICATION. THE DESIGN, TYPE, SPACING AND APPLICATION OF ALL HANGERS, SUPPORTS, ANCHORS AND GUIDES SHALL COMPLY WITH THE ABOVE STANDARDS. HANGER RODS SHALL BE GALVANIZED OR CADMIUM PLATED. HANGER ROD CLAMPS AND INSERTS SHALL BE AS RECOMMENDED BY THE CLAMP OR INSERT MANUFACTURER FOR THE INTENDED USE AND SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. ALL METHODS OF ATTACHMENT TO THE STRUCTURE AND THE USE OF AFTER-SET INSERTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. THE LOAD AND SPACING ON EACH HANGER AND/OR INSERT SHALL NOT EXCEED THE SAFE ALLOWABLE LOAD FOR ANY COMPONENT OF THE SUPPORT SYSTEM, INCLUDING THE CONCRETE WHICH HOLDS THE INSERTS. REINFORCEMENT AT INSERTS SHALL BE PROVIDED AS REQUIRED TO DEVELOP THE STRENGTH REQUIRED. PROVIDE DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS.

B. PAINTING

1. ALL MACHINERY AND EQUIPMENT NOT FINISHED AT THE FACTORY SHALL BE GIVEN A PRIME COAT AND THEN FINISH PAINTED WITH TWO COATS OF ENAMEL IN COLORS AS DIRECTED BY THE ARCHITECT/ENGINEER OR OWNER'S REPRESENTATIVE. NO NAMEPLATES ON EQUIPMENT SHALL BE PAINTED, AND SUITABLE PROTECTION SHALL BE AFFORDED SUCH PLATES TO PREVENT THEIR BEING RENDERED ILLEGIBLE DURING THE PAINTING OPERATIONS.

2. ALL UNINSULATED BLACK STEEL PIPE, HANGERS AND SUPPORTS SHALL BE GIVEN TWO COATS OF PRIMER. WHERE EXPOSED TO OUTDOOR WEATHER OR PUBLIC VIEW, THESE ITEMS SHALL BE PRIMED AND FINISHED WITH TWO COATS OF ENAMEL IN COLORS .

3. ALL INSULATED PIPING EXPOSED TO VIEW SHALL HAVE THE FINISHED INSULATION PAINTED WITH TWO COATS OF ACRYLIC IN COLORS AS INDICATED IN THE PIPING SYSTEM IDENTIFICATION TABLE. PIPING CONCEALED IN FURRINGS, CHASES, OR ABOVE SUSPENDED CEILINGS, NEED NOT BE PAINTED.

C. IDENTIFICATION AND LABELING

1. ROOFTOP EQUIPMENT, AIR HANDLING UNITS, PUMPS, WATER HEATERS, SUPPLY FANS, DUCT HEATERS, EXHAUST FANS, WATER CHILLING UNITS, BOILERS, COOLING TOWERS, AND ANY OTHER EQUIPMENT DESIGNATED BY THE ARCHITECT/ENGINEER SHALL BE LABELED WITH PERMANENTLY ATTACHED ENGRAVED NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC PLASTIC, AT LEAST 1/16 INCH THICK, 3-PLY, BLACK SURFACES AND WHITE CORE. ENGRAVING SHALL BE CONDENSED GOTHIC AT LEAST 3/8 INCH HIGH. ENGRAVING SHALL INCLUDE EQUIPMENT NAME AND NUMBER AND ELECTRICAL PANEL AND CIRCUIT WHICH SERVICES THE EQUIPMENT. CONSULT ARCHITECT/ENGINEER FOR LABEL NOMENCLATURE.

2. ALL VALVES AT MAJOR EQUIPMENT AND IN ALL EQUIPMENT ROOMS SHALL BE MARKED WITH 1-1/2" DIAMETER ALUMINUM OR ENGRAVED PLASTIC TAGS SECURELY ATTACHED TO VALVE STEMS WITH "S" HOOKS.

3. PIPING AT MAJOR EQUIPMENT AND IN ALL EQUIPMENT ROOMS SHALL BE IDENTIFIED BY COLOR CODED MARKERS AS TO TYPE OF USE, SERVICE AND DIRECTION OF FLOW AS INDICATED WITHIN THE PIPING SYSTEM IDENTIFICATION TABLE. MARKERS SHALL BE LOCATED AT EACH VALVE, ON 20 FOOT CENTERS ON STRAIGHT RUNS OF PIPE AND AT LEAST ONCE IN OR ABOVE EACH ROOM AND EACH STORY TRAVERSED BY THE PIPING. PIPING CONCEALED IN ACCESSIBLE LOCATIONS SHALL BE MARKED ON 50 FOOT CENTERS ON STRAIGHT RUNS OF PIPE AND AT ALL CHANGES IN DIRECTION. LABELS SHALL BE AS MANUFACTURED BY BRADY, BRIMAR, SETON, MARKING SERVICES, INC., OR WESTLINE.

4. ACCESS DOORS PROVIDED FOR ACCESS AND SERVICING OF FIRE AND SMOKE DAMPERS SHALL BE LABELED AS TO TYPE OF DAMPER (FIRE, SMOKE, COMBINATION FIRE AND SMOKE) SERVED.

AIR BALANCE

A. UPON COMPLETION OF THE INSTALLATION OF THE HVAC SYSTEMS, THE AIR VOLUME FOR EACH GRILLE AND AIR HANDLING UNIT, FAN COIL UNIT, AND VAV BOX SHALL BE SET TO DELIVER THE LISTED AIR VOLUME AND THE EXHAUST SYSTEM SHALL BE ADJUSTED TO ITS RATED EXHAUST VOLUME. AN INDEPENDENT, NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL PERFORM THE AIR BALANCE AND SHALL SUBMIT A REPORT TO THE ENGINEER INDICATING AIR QUANTITIES AT ALL AIR HANDLING EQUIPMENT AND AIR DISTRIBUTION DEVICES. THE REPORT SHALL SHOW DESIGN QUANTITIES AND MEASURED QUANTITIES. ALL SUPPLY AND EXHAUST VOLUMES MUST BE EQUAL TO OR WITHIN +5% OF THE LISTED AIRFLOW RATE.

WATER BALANCE

A. UPON COMPLETION OF THE INSTALLATION OF THE HVAC SYSTEMS, THE WATER VOLUME FOR EACH COIL AND PIECE OF EQUIPMENT SHALL BE SET TO DELIVER THE LISTED WATER VOLUME. AN INDEPENDENT, NEBB OR AABC CERTIFIED WATER BALANCE CONTRACTOR SHALL PERFORM THE WATER BALANCE AND SHALL SUBMIT A REPORT TO THE ENGINEER INDICATING WATER FLOW QUANTITIES AND PRESSURE DROPS AT ALL COILS, PUMPS, CHILLERS, BOILERS, ETC. THE REPORT SHALL SHOW DESIGN QUANTITIES AND MEASURED QUANTITIES. ALL VOLUMES MUST BE EQUAL TO OR WITHIN +5% OF THE LISTED AIRFLOW RATE.

ACCESS DOORS

A. ACCESS DOORS SHALL BE PROVIDED FOR ACCESS TO VALVES, DAMPERS OR ANY OTHER ITEM WHICH MAY REQUIRE SERVICING OR ADJUSTING AND WHICH IS CONCEALED BEHIND AN INACCESSIBLE SURFACE SUCH AS SPLINED CEILINGS AND PLASTER WALLS OR CEILINGS. ACCESS DOORS SHALL BE AS MANUFACTURED BY MILCOR OR AN APPROVED EQUAL FOR SPECIFIC APPLICATION.

DUCTWORK

A. ALL DUCTWORK SHALL BE CONSTRUCTED OF NEW LOCK FORMING QUALITY GALVANIZED SHEET METAL IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. DUCTWORK UPSTREAM OF VAV BOXES SHALL BE CONSTRUCTED TO THE 3" W.G. PRESSURE CLASSIFICATION. DUCTWORK DOWNSTREAM OF BOXES SHALL BE CONSTRUCTED TO THE 1" W.G. PRESSURE CLASSIFICATION. SUPPLY DUCT SYSTEMS WITHOUT VAV BOXES SHALL BE CONSTRUCTED TO THE 2" W.G. PRESSURE CLASSIFICATION. EXHAUST SYSTEMS LESS THAN 1,000 CFM SHALL BE CONSTRUCTED TO THE 1" W.G. PRESSURE CLASSIFICATION. EXHAUST SYSTEMS ABOVE 1,000 CFM SHALL BE CONSTRUCTED TO THE 2" PRESSURE CLASSIFICATION. RETURN AIR DUCTWORK SHALL BE CONSTRUCTED TO THE 2" PRESSURE CLASSIFICATION. ALL LONGITUDINAL SEAMS AND TRANSVERSE JOINTS SHALL BE SEALED PER SMACNA DUCT SEALING REQUIREMENTS SEAL CLASS "B". SEAL WITH A WATER BASED ADHESIVE SEALER DESIGNED FOR MEDIUM VELOCITY DUCT SYSTEMS. SEALER SHALL BE HARDCAST, INC., "IRON GRIP WATER BASE DUCT SEALANT #601," DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE FROM THE BUILDING STRUCTURE WITH HANGER ASSEMBLIES IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL RISES, DROPS, AND OFFSETS IN DUCTWORK AS REQUIRED. IF AFTER INSTALLED, NEW DUCTWORK IS FOUND TO BE IN CONFLICT WITH ARCHITECTURAL, STRUCTURAL, OR MEP ELEMENTS WHICH ARE EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER.

B. ALL INSULATION SHALL HAVE A COMPOSITE (INSULATION, JACKET OR FACING, AND ADHESIVE USED TO ADHERE FACING OR JACKET TO INSULATION) FIRE AMD SMOKE HAZARD RATING (AS TESTED BY PROCEDURE ASTM E84, NFPA 225, AND UL 273) NOT EXCEEDING A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50.

C. ALL NEW SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK DUCT WRAP, 3/4 LB/CU.FT. INSULATION. INSULATION SHALL HAVE A FACTORY APPLIED FOIL-SKRIM-KRAFT FACING CONSISTING OF 0.35 MIL. ALUMINUM FOIL REINFORCED WITH GLASS YARN MESH AND LAMINATED TO 40 POUND CHEMICAL TREATED, FIRE RESISTANT KRAFT. OVERLAP ALL SEAMS, STAGGER LONGITUDINAL SEAMS. SEAL SEAMS WITH 4" WIDE PRESSURE SENSITIVE TAPE AND OUTWARD CLINCHING STAPLES. USE SPEED CLIP PINS ADHERED TO DUCT SURFACES OVER 18" IN WIDTH ON 16" ENTERS AND MAX. 3" FROM INSULATION SEAMS. APPLY BRUSH ON VAPOR RETARDANT MASTIC OVER TAPE EDGES, PINS, AND TEARS IN THE FOIL VAPOR BARRIER.

D. ROUND FLEXIBLE DUCT SHALL HAVE 1" THICK, 1-1/2 LB/CU.FT. DENSITY FIBERGLASS INSULATION, VINYL VAPOR BARRIER. MINIMUM LENGTH 4'-0"; MAXIMUM LENGTH 5'-0". IF EXTENSION IS REQUIRED, USE ROUND SHEET METAL DUCT THAT IS EXTERNALLY INSULATED WITH 1" THICK, 1-1/2 LB/CU.FT. FIBERGLASS INSULATION AND FOIL-SKRIM-KRAFT VAPOR BARRIER. SECURE FLEXIBLE DUCT TO SPIN-IN AND AIR DEVICE NECK WITH CORROSION RESISTANT METAL CLAMPS AND SEAL VAPOR BARRIER AS DESCRIBED ABOVE IN NOTE 3. SUSPEND FLEX DUCT FROM STRUCTURE AT DUCT CONNECTION AND EVERY 4 FEET; DO NOT ALLOW IT TO REST ON CEILING WHERE FLEXIBLE DUCT PENETRATES A WALL THAT EXTENDS TO STRUCTURE, PROVIDE INSULATED RIGID DUCT EXTENDING 12" ON EITHER SIDE OF THE PARTITION.

E. FLEXIBLE DUCT SHALL BE USED WHERE FLEXIBLE DUCT CONNECTIONS ARE SHOWN ON THE DRAWINGS TO AIR DISTRIBUTION DEVICES AND TERMINAL UNITS. MAXIMUM LENGTH SHALL BE 6'-0" FOR AIR DISTRIBUTION DEVICE CONNECTIONS. WHERE LONGER RUNS ARE REQUIRED, PROVIDE RIGID ROUND DUCTWORK. FLEXIBLE DUCTS SHALL BE SUPPORTED IN SUCH A MANNER TO PREVENT SAGS AND KINKS. BENDS IN ANY LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED A TOTAL TURNING OF 90O. EXTEND INSULATION AND OUTER JACKET OVER THE SECURED CLAMP AND TAPE DOWN TO THE SLEEVE/COLLAR TO MAINTAIN VAPOR BARRIER INTEGRITY. "R-VALUE" OF 8 MUST BE MAINTAINED THROUGH INSTALLATION. INSULATION ON FLEXIBLE DUCT SHALL NOT BE COMPRESSED. IF IT COMPLIES WITH THESE SPECIFICATIONS, FLEXIBLE DUCTWORK EQUAL TO FLEXMASTER TYPE 8M OR THERMAFLEX M-KE WILL BE ACCEPTABLE.

F. FLEXIBLE DUCTWORK SHALL NOT BE USED IN AREAS OF EXPOSED CEILINGS.

G. IN AREAS OF EXPOSED STRUCTURE USE LINED INSULATION PER THE BUILDING STANDARDS. RETURN AIR BOOTS SHALL ALSO USE BUILDING STANDARD LINED INSULATION.

H. ALL EXPOSED ROUND DUCT SHALL BE AP SPIRAFLEX INTERNALLY LINED DUCTWORK WITH ELASTOMERIC DUCT LINER.

I. DUCTWORK LOCATED OUTDOORS EXPOSED TO ELEMENTS SHALL HAVE THERMAL INSULATION EQUAL TO ARMACELL "ARMATUFF" INSULATION SHALL BE FUNGI, MOLD AND BACTERIA RESISTANT, CHEMICAL RESISTANT, UV RESISTANT. WATER VAPOR PERMIABILITY OF .05, AND THERMAL CONDUCTIVITY OF .256. PROVIDE MANUFACTURER'S INSTALLATION ACCESSORIES AND REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

J. KITCHEN EXHAUST DUCT SHALL BE BLACK STEEL NOT LESS THAN 0.054" (NO. 16 MSG) OR STAINLESS STEEL NOT LESS THAN 0.043" (NO 18 MSG) IN THICKNESS. ALL SEAMS, JOINT, AND PENETRATION SHALL HA A LIQUID TIGHT CONTINUOUS EXTERNAL WELD, EXCEPT WHERE THE DUCT STUB COLLAR OF THE HOOD OR A LISTED VENTILATOR IS CONNECTED TO THE EXHAUST INSTALL CLEAN-OUT DOORS IN THE SIDES OF THE DUCT LOCATED AT EACH CHANGE OF DIRECTION AND IN STRAIGHT SECTIONS NOT MORE THAN 20 FEET APART. OPENING SHALL BE AT THE SIDES OF DUCT AND IN HORIZONTAL SECTIONS SHALL BE NOT LESS THAN 1-1/2" FROM THE BOTTOM OF THE DUCT. IN INTERIOR DUCT PROVIDE ACCESS TO CLEAN-OUT DOORS OR FIRE RATED DOORS IN DUCTWORK WITH 2HR FIRE WRAP INSULATION. PROVIDE CODE REQUIRED CLEARANCE TO ALL COMBUSTIBLE MATERIALS AND PROVIDE A 2HR RATED FIBERGLASS FIRE WRAP INSULATION AROUND ENTIRE EXHAUST DUST SYSTEM SUCH AS 3M FIRE BARRIER DUCT WRAP 15A OR EQUAL.

REFRIGERANT PIPING

A. REFRIGERANT PIPING:

1. UP THROUGH 4": DRAWN TEMPER COPPER TUBING ASTM B 88 TYPE "L" WITH WROUGHT COPPER FITTINGS (ASTM B16.22). SILVER SOLDER ALL JOINTS WITH AWS A5.8 CLASSIFICATION B AG-1 SILVER SOLDER. CHARGE PIPING WITH NITROGEN WHILE SOLDERING.

2. ABOVE 4": ASTM A 53, TYPE E (ELECTRIC-RESISTANCE WELDED) GRADE A, SCHEDULE 40 BLACK STEEL WITH WROUGHT STEEL FITTINGS (ASTM A 234) WALL THICKNESS TO MATCH ADJOINING WELDED CONSTRUCTION.

B. REFRIGERANT VALVES:

1. SHUT OFF VALVE UP THROUGH 2 1/8":

A. STRAIGHT THROUGH BALL VALVES: VALVE RATED FOR 500 PSIG WORKING PRESSURE AND 275°F WORKING TEMPERATURE. FULL PORT, FORGED BRASS OR BRONZE BODY AND BONNET COVER, CHROME PLATED BRONZE BALL, PTFE, OR TFE SEATS, AND WITH SOLDER END CONNECTIONS.

B. PACKED-ANGLE VALVES: RATED FOR 500 PSIG WORKING PRESSURE AND 275°F WORKING EMPERATURE. FORGED BRASS OR BRONZE BODY, FORGED BRASS SEAL CAPS WITH COPPER GASKET, BACK SEATING, RISING STEM AND SEAT, MOLDED STEM PACKING, AND WITH SOLDER END CONNECTIONS.

2. SERVICE VALVES: RATED FOR 500 PSIG WORKING PRESSURE AND 275°F WORKING TEMPERATURE. FORGED BRASS BODY WITH COPPER STUBS, BRASS CAPS, REMOVABLE VALVE CORE AND WITH SOLDER END CONNECTIONS.

C. REFRIGERANT SPECIALTIES

1. MOISTURE/LIQUID INDICATORS: RATED FOR 500 PSIG WORKING PRESSURE AND 275°F WORKING TEMPERATURE. ALL BRASS BODY WITH REPLACEABLE, POLISHED, OPTICAL VIEWING WINDOW WITH COLOR CODED MOISTURE INDICATOR AND WITH SOLDER END CONNECTIONS.

2. STRAIGHT THROUGH OR ANGLE TYPE STRAINERS: RATED FOR 500 PSIG WORKING PRESSURE AND 275°F WORKING TEMPERATURE. FORGED BRASS OR STEEL BODY WITH STAINLESS STEEL WIRE OR BRASS REINFORCED MONEL SCREEN. 80 TO 100 MESH IN LIQUID LINES UP TO 11/8" IN SIZE. 60 MESH FOR LARGER LIQUID LINES, AND 40 MESH IN SUCTION LINES. PROVIDE SCREWED CLEAN OUT PLUG AND SOLDER END CONNECTIONS.

3. PERMANENT FILTER DRYERS: RATED FOR 350 PSIG WORKING PRESSURE AND 225°F WORKING TEMPERATURE. STEEL SHELL AND WROUGHT COPPER FITTINGS FOR SOLDER END CONNECTIONS. MOLDED FELT CORE SURROUNDED BY DESICCANT.

D. PIPING INSULATION:

1. REFRIGERANT SUCTION PIPING: 1" THICK FLEXIBLE ELASTOMERIC ARMACELL AP OR MANVILLE R-180-FS. INSULATION SHALL HAVE A THERMAL CONDUCTIVITY (K-FACTOR) OF NO MORE THAN 0.28 BTU/IN/HR/°F AT 75°F MEAN TEMPERATURE AND A WATER VAPOR PERMEABILITY OF 0.20 PERM-INCH OR LESS. SEAL ALL SEAMS WITH ARMSTRONG 520 OR SCHULLER NO. 57 ADHESIVE. INSULATION SHALL BE INSTALLED IN CONTINUOUS LENGTHS OVER PIPING. ALL SEAMS AND JOINTS SHALL BE GLUED WITH ADHESIVE. HORIZONTAL SUSPENDED PIPING SHALL BE PROVIDED WITH PROTECTION SHIELDS AT HANGER SUPPORT POINTS EQUAL TO ARMACEL ARMAFIX IPH PIPE HANGER SUPPORTS. COAT ALL INSULATION WITH TWO (2) COATS OF UV PROTECTIVE VINYL FINISH COMPOUND SIMILAR TO ARMACELL WB ARMAFLEX FINISH OR RUBATEX 374. INSTALL INSULATION UNDER A SLIGHT COMPRESSION TO ASSURE ALL JOINTS REMAIN IN CONTACT. DO NOT STRETCH INSULATION TO MAKE JOINTS MEET.

E. PIPING INSTALLATION NOTES:

1. CLEAN INSIDE OF PIPING PRIOR TO INSTALLATION. REAM ENDS TO FULL INSIDE DIAMETER. MAKE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. RUN PIPING STRAIGHT WITH BUILDING LINES. PIPING IN RACKS SHALL BE PARALLEL WITH EACH OTHER. INSTALL RISERS LOCATE VALVES IN ACCESSIBLE LOCATIONS. ROUTE PIPING SO AS TO ALLOW FOR FULL SERVICE ACCESS TO THE EQUIPMENT.

2. COPPER PIPING SHALL BE SUPPORTED WITH COPPER OR RUBBER COATED CLAMPS.

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	10/22/25	100% PERMIT ISSUE

CITY STAMP APPROVAL

AIR COOLED SPLIT SYSTEM AIR CONDITIONING UNITS

A. SCOPE

1. PROVIDE SPLIT SYSTEM AIR CONDITIONING UNIT WORK INCLUDING, BUT NOT LIMITED TO, THE FURNISHING AND INSTALLATION OF AN INDOOR EVAPORATOR UNIT, ELECTRIC HEATING, AN AIR-COOLED CONDENSING UNIT, FILTERS, THERMOSTAT, AND OTHER CONTROLS AS REQUIRED BY LOCAL, STATE, AND OTHER APPLICABLE CODES.

B. QUALITY ASSURANCE

1. MANUFACTURERS: IF THEY COMPLY WITH THESE SPECIFICATIONS AND REQUIREMENTS, PRODUCTS OF THE FOLLOWING MANUFACTURERS WILL BE ACCEPTABLE:

   A. CARRIER
   B. TRANE
   C. DAIKIN
   D. JOHNSON CONTROLS
   E. LENNOX

2. CERTIFICATION: PROVIDE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH ARI STANDARD 210, 240, 360.

3. ALL COMPONENTS (PARTS & LABOR) OF THE SEALED REFRIGERATION CIRCUIT SHALL BE WARRANTED BY THE MANUFACTURES FOR 5-YEARS.

C. EQUIPMENT

1. GENERAL- (EXCEPT AS OTHERWISE INDICATED, PROVIDE SPLIT SYSTEM AIR CONDITIONING UNIT MANUFACTURER'S STANDARD MATERIALS AND COMPONENTS AS INDICATED BY HIS PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY THE MANUFACTURER AND AS REQUIRED FOR A COMPLETE INSTALLATION.) UNIT EFFICIENCIES SHALL MEET OR EXCEED THOSE REQUIRED BY THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE, AND ANY ASSOCIATED AMENDMENTS BY THE MUNICIPALITY HAVING JURISDICTION.

2. EVAPORATOR UNIT:

   A. CABINET: PROVIDE 16 GAUGE OR HEAVIER, DIE-FORMED, GALVANIZED STEEL WITH BAKED-ON ENAMEL FINISH AND MINIMUM R-8 DOUBLE WALL INSULATED PANELS COMPLYING WITH NFPA NO. 90A. INSTALL UNIT TO MINIMIZE BOTH HEAT AND SOUND TRANSMISSIONS AND PREVENT SWEATING. PROVIDE CASING WITH AN INSULATED STAINLESS STEEL - 2 DIRECTION SLOPED DRAIN PAN.

   B. 1EVAPORATOR COIL: COILS SHALL BE ARRANGED FOR DRAW THRU AND CONSIST OF MINIMUM 3 ROWS WITH ALUMINUM FIN SURFACE. DX COILS WILL HAVE SINGLE AND DUAL CIRCUITS. EACH CIRCUIT TO HAVE FACTORY INSTALLED THERMAL EXPANSION VALVES (TXV) WITH EXTERNAL ADJUSTMENT.

   C. 1EVAPORATOR FANS: PROVIDE FANS, BALANCED STATICALLY AND DYNAMICALLY, AND OF THE INDICATED CAPACITY, SERVICING. DESIGN FAN BELT DRIVES FOR 150% OF THE REQUIRED FAN MOTOR BRAKE HORSEPOWER. FAN SHALL BE DOUBLE INLET, DOUBLE WIDTH, F.C. CENTRIFUGAL TYPE WITH ADJUSTABLE BELT DRIVE.

   D. 1MOTORS: PROVIDE MOTORS WITH PERMANENTLY LUBRICATED TYPE BALL BEARINGS, BUILT-IN AUTOMATIC RESET THERMAL OVERHEAT PROTECTION AND MOUNTED ON AN ADJUSTABLE BASE. PROVIDE MOTOR CONTROLS AS REQUIRED.

   E. FILTERS: PROVIDE MANUFACTURER'S 2" MERV 7 GLASS FIBER FILTERS.

   F. ELECTRICAL HEATER: HEATER SHALL BE FACTORY SUPPLIED FOR FIELD INSTALLATION AS SHOWN ON THE EQUIPMENT DRAWINGS. ELECTRIC HEATER ASSEMBLY TO BE UL APPROVED, AND SHALL HAVE SINGLE POINT POWER WIRING. HEATERS TO HAVE CONTACTORS WITH 24-VOLT COILS, POWER WIRING, 24-VOLT CONTROL WIRING, TERMINAL BLOCKS AND HINGED ACCESS PANEL.

3. AIR-COOLED CONDENSING UNIT:

   A. CASING: PROVIDE 14 GAUGE OR HEAVIER, GALVANIZED STEEL WITH WEATHER-RESISTANT ENAMEL COATING AND REMOVABLE ACCESS PANELS. PROVIDE WITH HAIL GUARDS.

   B. CONDENSER FAN AND MOTOR: PROVIDE FANS AND MOTORS WHICH ARE BALANCED STATICALLY AND DYNAMICALLY, WITH PERMANENTLY LUBRICATED TYPE BALL BEARINGS AND BUILT-IN AUTOMATIC RESET THERMAL OVERHEAT PROTECTION. PROVIDE MOTOR CONTROLS AS REQUIRED.

   C. COMPRESSOR: PROVIDE HIGH EFFECIENT HERMETICALLY SEALED, REFRIGERANT-COOLED TYPE COMPRESSOR WITH CONTROLS AS REQUIRED AND SUITABLE FOR OPERATION WITH R410a OR R407c REFRIGERANT. PROVIDE CAPACITY CONTROL TO ALLOW PARTIAL OPERATION AT LOW LOAD CONDITIONS, HIGH AND LOW PRESSURE CUTOFFS, OVERLOAD RELAYS, AND INTERNAL WINDING THERMOSTAT. MOUNT ON INTERNAL SPRING ISOLATION RUBBER-IN-SHEAR MOUNTING PADS.

   D. REFRIGERATION CIRCUITS: PROVIDE SHOP DRAWINGS OF REFRIGERATION CIRCUIT INCLUDING BACK-SEATING TYPE SERVICE VALVES IN LIQUID AND HOT GAS LINES, FILTER DRYER ON LIQUID LINE, SIGHT GLASS ON LIQUID LINE, CHARGING VALVES ON THE SUCTION SIDE, AND HOT GAS MUFFLER ON THE DISCHARGE SIDE.

D. INSTALLATION

1. GENERAL: FIT EQUIPMENT AND APPURTENANCES TO THE SPACE PROVIDED AND MAKE READILY SERVICEABLE.

2. MOUNTING: PROVIDE FOUNDATION, PLATFORMS, AND HANGERS REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT.

3. FANS: INSTALL FANS TO OPERATE WITHOUT NOTICEABLE VIBRATION AFTER INSTALLATION.

4. GUARDS: ARRANGE BELT GUARDS TO PERMIT ACCESSIBLE TACHOMETER READINGS, OILING, AND TESTING WITH GUARDS IN POSITION.

5. CHARGING: CHARGE REFRIGERANT IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA.

FANS

A. SCOPE

1. PROVIDE FAN UNIT INCLUDING, THE FURNISHING AND INSTALLATION OF CONTROLS, ELECTRONIC VARIABLE SPEED DRIVES, MOTORS AND CONTROLLERS, NOISE AND VIBRATION ISOLATION AS REQUIRED BY LOCAL, STATE, AND OTHER APPLICABLE CODES.

B. QUALITY ASSURANCE

1. MANUFACTURERS: IF THEY COMPLY WITH THESE SPECIFICATIONS AND REQUIREMENTS, PRODUCTS:

   a. GREENEHCK
   b. COOK
   c. ACME
   d. TWIN CITY FANS
   e. APPROVED EQUAL

C. GENERAL REQUIREMENTS

a. SHEAVES: VARIABLE PITCH MOTOR SHEAVES SHALL BE FURNISHED FROM THE FACTORY ON ALL BELT DRIVEN EQUIPMENT. AFTER THE PROPER SPEED HAS BEEN DETERMINED AND ALL BALANCING IS COMPLETED AND ACCEPTED, VARIABLE SHEAVES SHALL BE REPLACED WITH FIXED SHEAVES. FAN SHEAVES SHALL BE OF THE NON-ADJUSTABLE TYPE.

   1. THE MOTOR SHEAVES SHALL BE BROWNING TYPE LVP OR MVP CAST IRON ADJUSTABLE TYPE WITH DOUBLE LOCKING FEATURES.
   2. SHEAVES SHALL BE ADJUSTABLE AS CLOSE TO 10% ABOVE AND BELOW THE RATED FAN SELECTION RPM AS POSSIBLE.
   3. FAN SHEAVES SHALL BE OF THE NON-ADJUSTABLE TYPE WITH REMOVABLE MACHINED BUSHINGS AND SHALL BE MACHINED ON ALL SURFACES.
   4. SHEAVES SHALL BE CAST IRON.

b. DRIVES: FAN DRIVES SHALL BE SELECTED WITH A MINIMUM BELT HORSEPOWER CAPACITY OF 150% OF THE MOTOR NAMEPLATE HORSEPOWER. BELT RATINGS SHALL BE IN ACCORDANCE WITH "ENGINEERING STANDARDS FOR MULTIPLE V-BELT DRIVES". FOR ALL EXHAUST FANS REQUIRING 1-1/2 HP OR LARGER MOTORS, THE FAN DRIVE SELECTION CALCULATIONS SHALL BE SUBMITTED WITH THE FAN SUBMITTAL FOR REVIEW.

c. BELTS: BELTS SHALL BE STANDARD V-GROOVED TYPE SUITABLE FOR THE SERVICE INTENDED.

d. SPEED CONTROLLERS: ALL DIRECT DRIVE FANS, EXCEPT THOSE WITH ECM MOTORS, SHALL BE FURNISHED WITH A SOLID STATE SPEED CONTROLLER UNLESS OTHERWISE NOTED. SOLID STATE SPEED CONTROLLERS SHALL BE MOUNTED ABOVE THE CEILING ADJACENT TO THE FAN BEING SERVED WHEN A SPECIFIC LOCATION IS NOT SHOWN.

D. EQUIPMENT

a. CABINET DIRECT DRIVE EXHAUST FANS

   1. FANS SHALL BE CENTRIFUGAL DIRECT DRIVEN TYPE. FAN HOUSING SHALL BE GALVANIZED STEEL. FAN WHEEL SHALL BE FORWARD CURVED CENTRIFUGAL TYPE. MOTOR SHALL BE MOUNTED ON VIBRATION ISOLATORS. OUTLET DUCT COLLAR SHALL INCLUDE AN INTEGRAL BACK DRAFT DAMPER WHEN SCHEDULED.

   2. ACCESSORIES SHALL INCLUDE AN INTERNAL DISCONNECT SWITCH AND A SOLID STATE SPEED CONTROLLER.

A. INSTALLATION

1. ALL FANS MOUNTED ON ROOF CURBS SHALL BE SECURELY ATTACHED TO THE ROOF CURB WITH APPROPRIATE FASTENERS LOCATED 8 INCHES ON CENTER WITH A MINIMUM OF TWO FASTENERS PER SIDE. THE ROOF CURB SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE.

2. FURNISH AND COORDINATE ALL ROOF MOUNTED FAN CURB OPENINGS PRIOR TO ROOFING INSTALLATIONS.

3. ALL FANS WITH 2000 CFM OR GREATER AIRFLOW SHALL HAVE A FIRESTAT WITH MANUAL RESET SET TO OPEN AT 50 DEGREES ABOVE MAXIMUM SYSTEM OPERATING TEMPERATURE AND SHUT DOWN THE FAN. FIRESTAT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRCTOR WITH WIRING BY ELECTRICAL CONTRACTOR.

4. WHEN INSTALLING UTILITY STYLE FAN SETS, PAY CLOSE ATTENTION TO POTENTIAL PROBLEMS WITH SO CALLED "SYSTEM EFFECTS" ASSOCIATED WITH THE PLACEMENT OF TURNS AND OFFSETS OF DUCTWORK TOO CLOSE TO THE INLET OF THE FAN. EACH FAN SHALL HAVE A STRAIGHT SECTION OF DUCT OF A MINIMUM LENGTH EQUAL TO THREE (3) DIAMETERS OF THE INLET DUCT. SHOULD THIS CONDITION NOT BE POSSIBLE TO ACHIEVE DUE TO FIELD RESTRAINTS, CONTACT THE ENGINEER IMMEDIATELY FOR ASSISTANCE IN THE RESOLUTION OF THE MATTER. COSTS INCURRED BECAUSE OF A FAILURE TO DO SO IN A TIMELY MANNER WILL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

AIR DISTRIBUTION DEVICES AND DAMPERS

A. SCOPE

1. GENERAL: FURNISH AND INSTALL AIR DISTRIBUTION DEVICES AS SHOWN, SCHEDULED, SPECIFIED, AND REQUIRED. DEVICES SHALL BE COMPLETE WITH ALL REQUIRED MOUNTING ACCESSORIES FOR INSTALLATION IN THE ACTUAL CONSTRUCTION AT THE INSTALLATION LOCATION.QUALITY ASSURANCE.

B. QUALITY ASSURANCE

1. MANUFACTURERS: IF THEY COMPLY WITH THESE SPECIFICATIONS AND REQUIREMENTS, PRODUCTS OF THE FOLLOWING MANUFACTURERS WILL BE ACCEPTABLE:

   a. NAILOR
   b. KRUEGER
   c. METALAIRE
   d. TITUS
   e. PRICE
   f. RUSKIN

C. PRODUCTS

1. GENERAL: PROVIDE AIR DISTRIBUTION DEVICES OF THE SIZE, SHAPE, AND TYPE CONSTRUCTED OF MATERIALS AND COMPONENTS AND WITH FINISHES AS SPECIFIED, SCHEDULED, AND SHOWN. GRILLES, REGISTERS, AND CEILING DIFFUSERS SHALL BE PROVIDED WITH NEOPRENE OR SOFT FELT GASKETS. IF A MANUFACTURER OTHER THAN THE ONE SCHEDULED IS USED, THE SIZES SHOWN ON THE DRAWINGS SHALL BE CHECKED FOR PERFORMANCE, NOISE LEVEL, FACE VELOCITY, THROW, PRESSURE DROP, ETC., BEFORE THE SUBMITTAL IS MADE. SELECTIONS SHALL MEET THE MANUFACTURER'S OWN PUBLISHED DATA FOR THE ABOVE PERFORMANCE CRITERIA. THE THROW SHALL BE SUCH THAT THE VELOCITY AT THE END OF THE THROW IN THE FIVE FOOT OCCUPANCY ZONE WILL BE NOT MORE THAN 50 FPM NOR LESS THAN 25 FPM. NOISE LEVELS SHALL NOT EXCEED THOSE PUBLISHED IN THE ASHRAE APPLICATIONS HANDBOOK FOR THE TYPE OF SPACE BEING SERVED (NC LEVEL) EXCEPT NONE SHALL EXCEED NC 35.

2. SURFACE COMPATIBILITY: AIR DISTRIBUTION DEVICES SHALL HAVE FRAMES FULLY COMPATIBLE WITH THE CEILING, WALL, AND FLOOR SURFACES IN WHICH THEY ARE INSTALLED AND SHALL BE PROVIDED WITH ALL REQUIRED MOUNTING ACCESSORIES FOR INSTALLATION IN THE ACTUAL CONSTRUCTION AT THE INSTALLATION LOCATION. PROVIDE CONCEALED FASTENING ON ALL SURFACES.

3. FINISHES: ALL CEILING AND WALL MOUNTED AIR DEVICES SHALL HAVE CORROSION RESISTANT TREATED SURFACES AND BE PAINTED WHITE OR OFF-WHITE WITH BAKED ENAMEL UNLESS SPECIFIED OTHERWISE AND ALL AIR DEVICES SHALL BE THE SAME COLOR. WHERE THE FACTORY FINISH ON ALL DEVICES IS NOT THE SAME AS DETERMINED BY THE ARCHITECT/ENGINEER, THE DIVISION 15 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FIELD PAINTING OF ALL AIR DEVICES BY THE DIVISION 9 CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DIVISION 9 FIELD PAINTING OF WHITE OR OFF-WHITE AIR DEVICES. SPECIAL COLOR PAINTING OF AIR DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 9 CONTRACTOR. THE ARCHITECT/ENGINEER'S DECISION ON WHITE COLOR COMPATIBILITY IS FINAL. THE INTERIOR OF ALL PERFORATED PLATE DIFFUSERS SHALL BE PAINTED FLAT BLACK. ALL STEEL COMPONENTS SHALL BE FULLY PHOSPHATIZED PRIOR TO PAINTING AND THERE SHALL BE NO UNPAINTED STEEL PARTS.

4. CEILING DIFFUSERS: PROVIDE OPPOSED BLADE VOLUME CONTROL DAMPERS WITH SUPPLY AIR DIFFUSERS WHERE DIFFUSERS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS AND WHERE SCHEDULED. WHERE APPLICABLE, PROVIDE ADAPTERS WITH DIFFUSERS TO PERMIT CONNECTION TO ROUND SUPPLY DUCT. PERFORATED PLATE SUPPLY AIR DIFFUSERS SHALL HAVE PATTERN CONTROL BLADES INSTALLED IN THE DIFFUSER NECK UNLESS NOTED OTHERWISE. PATTERN CONTROLLERS ATTACHED TO THE PERFORATED PLATE ARE NOT ACCEPTABLE. PROVIDE CONCEALED FASTENING ON ALL CEILING DIFFUSERS. DEVICE NECK SIZE SHALL BE AS SHOWN ON THE DRAWINGS.

5. REGISTERS AND GRILLES: PROVIDE REGISTERS WHICH CONTAIN A KEY-OPERATED OPPOSED BLADE DAMPER OPERABLE FROM THE FACE SIDE WHERE REGISTERS ARE DUCTED AND INSTALLED IN INACCESSIBLE SURFACES. SUPPLY AIR REGISTERS SHALL BE OF THE DOUBLE DEFLECTION TYPE. RETURN AIR GRILLES AND REGISTERS SHALL HAVE FIXED FACE BLADES AND MATCH THE FACE OF THE SUPPLY AIR CEILING DIFFUSERS, UNLESS OTHERWISE INDICATED. PROVIDE CONCEALED FASTENING FOR ALL REGISTERS AND GRILLES.

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PARD CAMPUS

8203 MILLENNIUM FOREST,
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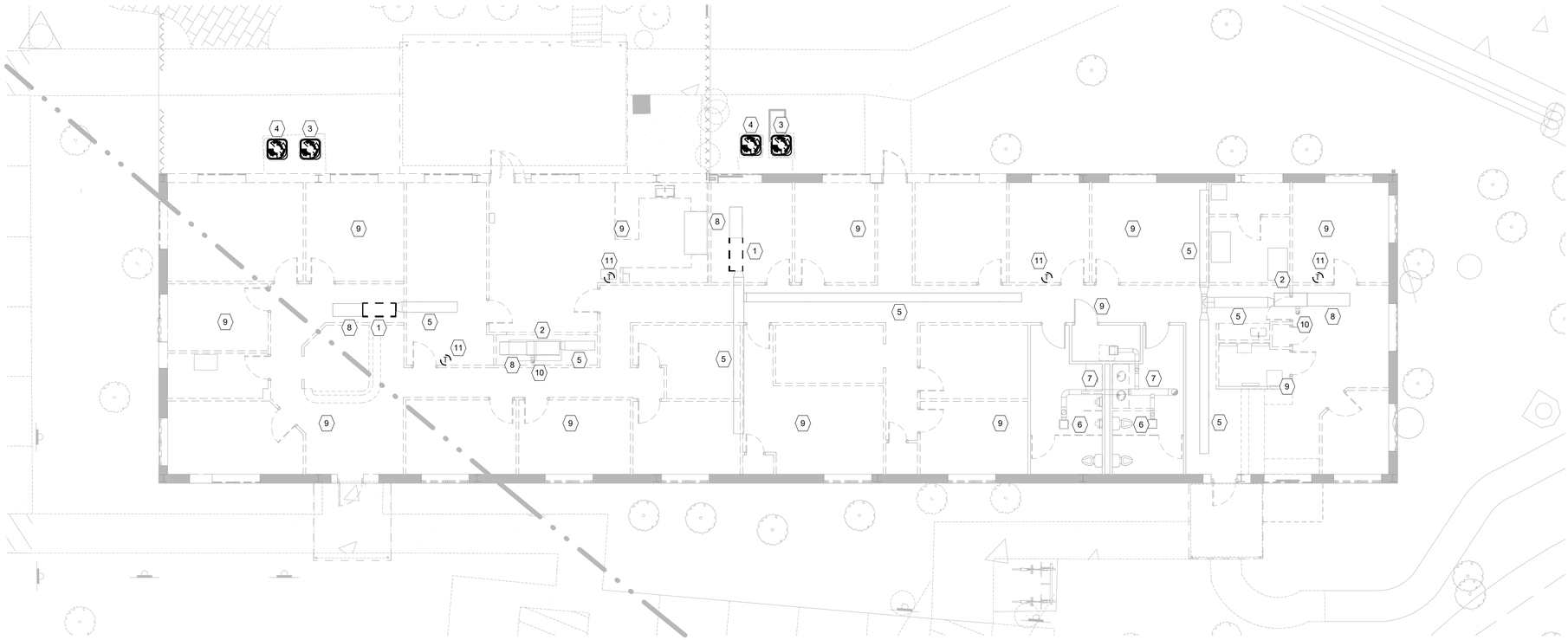
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MECHANICAL SPECIFICATIONS

M0.04

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MECHANICAL DEMO DUCTWORK PLAN - BLDG A
1/8" = 1'-0"

1

XX INDICATES KEYED NOTE

KEYED NOTES

1. DEMOLISH EXISTING FAN COIL UNIT. EXISTING OUTSIDE AIR DUCTWORK, SUPPLY AIR DUCTWORK, RETURN AIR DUCTWORK AND CONDENSATE DRAIN LINES TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
2. EXISTING MECHANICAL EQUIPMENT, OUTSIDE AIR DUCTWORK, CONDENSATE DRAIN LINES TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
3. RELOCATE EXISTING MECHANICAL EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. REFER TO SHEET M2.01AC FOR NEW LOCATION.
4. DEMOLISH EXISTING CONDENSING UNIT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
5. EXISTING MAIN SUPPLY AIR DUCTWORK TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
6. EXISTING EXHAUST AIR GRILLE TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
7. EXISTING MAIN EXHAUST AIR DUCTWORK TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
8. EXISTING MAIN RETURN AIR DUCTWORK TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
9. EXISTING AIR GRILLES AND DUCTWORK TAPS TO BE DEMOLISHED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
10. EXISTING EXHAUST FLUE TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
11. EXISTING THERMOSTAT TO REMAIN AND BE RELOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. REFER TO SHEET M2.01AC FOR NEW LOCATION.

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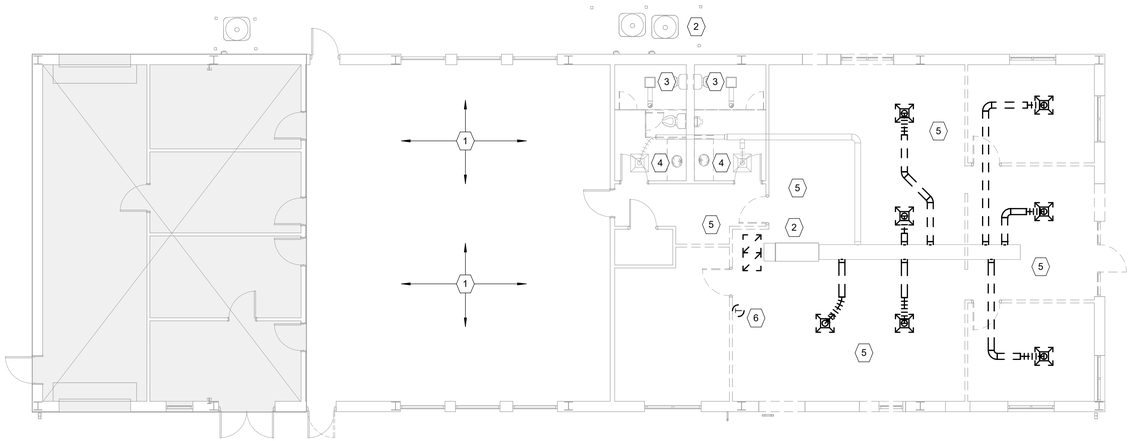
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MECHANICAL DEMO DUCTWORK PLAN - BLDG A

M1.02A

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MECHANICAL DEMO DUCTWORK PLAN - BLDG B
1/8" = 1'-0"
1

XX INDICATES KEYED NOTE

KEYED NOTES

1. EXISTING MECHANICAL SYSTEMS IN THIS AREA TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTING OF EXISTING SYSTEM.
2. EXIISTING MECHANICAL EQUIPMENT TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
3. EXISTING EXHAUST AIR FAN TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
4. EXISTING SUPPLY AIR GRILLE TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
5. DEMOLISH ALL DUCTS AND AIR GRILLES SHOWN DASHED.
6. EXISTING THERMOSTAT TO REMAIN AND BE RELOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. REFER TO SHEET M2.01B FOR NEW LOCATION.

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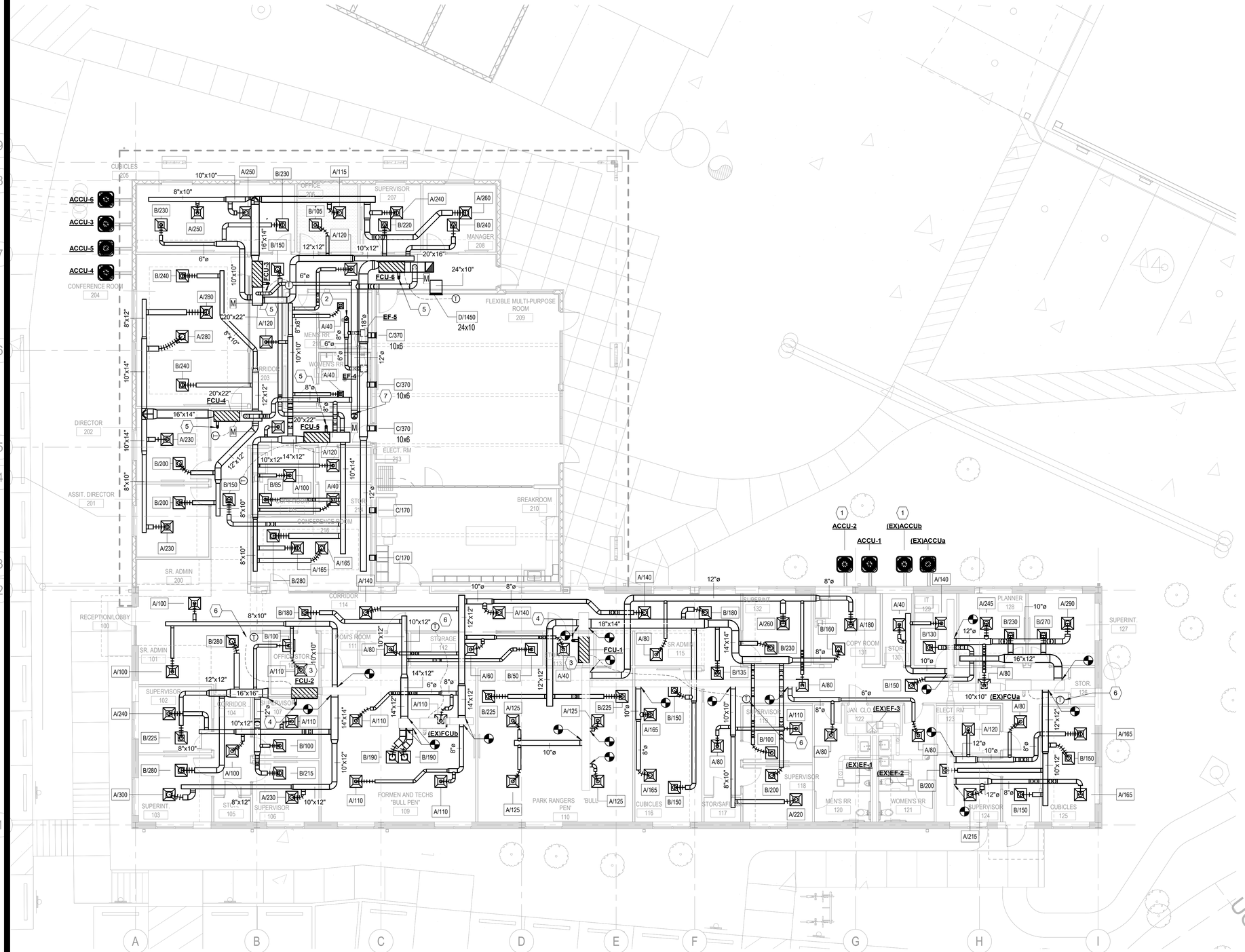
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MECHANICAL DEMO DUCTWORK PLAN - BLDG B

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MECHANICAL DUCTWORK PLAN - BLDG A&C

1/8" = 1'-0"

1

(XX) INDICATES KEYED NOTE

KEYED NOTES

1. NEW LOCATION OF EXISTING CONDENSING UNIT.
2. ROUTE 8" ROUND EXHAUST AIR DUCTWORK UP THROUGH ROOF TO GREENHECK GOOSENECK. REFER TO SHEET M9.01 DETAIL NUMBER 10.
3. CONNECT NEW FAN COIL UNIT TO EXISTING MAIN RETURN AIR DUCTWORK, MAIN SUPPLY AIR DUCTWORK, EXHAUST FLUE DUCTWORK, OUTSIDE AIR DUCTWORK AND CONDENSATE DRAIN LINE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
4. PROVIDE NEW 4" ROUND FLUE EXHAUST DUCTWORK UP THROUGH ROOF TO FLUE CAP.
5. PROVIDE 4" ROUND FLUE EXHAUST DUCTWORK UP THROUGH ROOF TO FLUE CAP.
6. NEW LOCATION OF EXISTING THERMOSTAT. CONTRACTOR SHALL EXTEND CONTROL WIRING AS REQUIRED.
7. ROUTE 12" OUTSIDE AIR DUCT UP THROUGH ROOF TO GOOSENECK.

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MECHANICAL DUCTWORK PLAN - BLDG A&C

M2.01AC

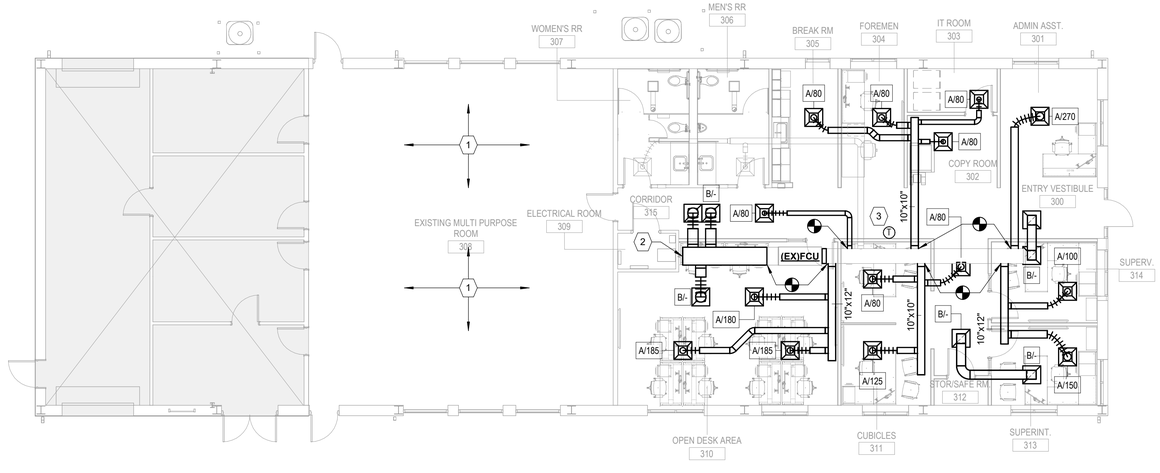
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XX INDICATES KEYED NOTE

KEYED NOTES

1. EXISTING MECHANICAL SYSTEMS IN THIS AREA TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTING OF EXISTING SYSTEM.
2. EXTEND RETURN AIR DUCT FULL SIZE OF UNIT CONNECTION AS SHOWN. CONNECT TO UNIT. CONNECT TO EXISTING OUTSIDE AIR DUCT.
3. NEW LOCATION OF EXISTING THERMOSTAT. CONTRACTOR SHALL EXTEND CONTROL WIRING AS REQUIRED.



MECHANICAL DUCTWORK PLAN - BLDG B
1/8" = 1'-0"

1

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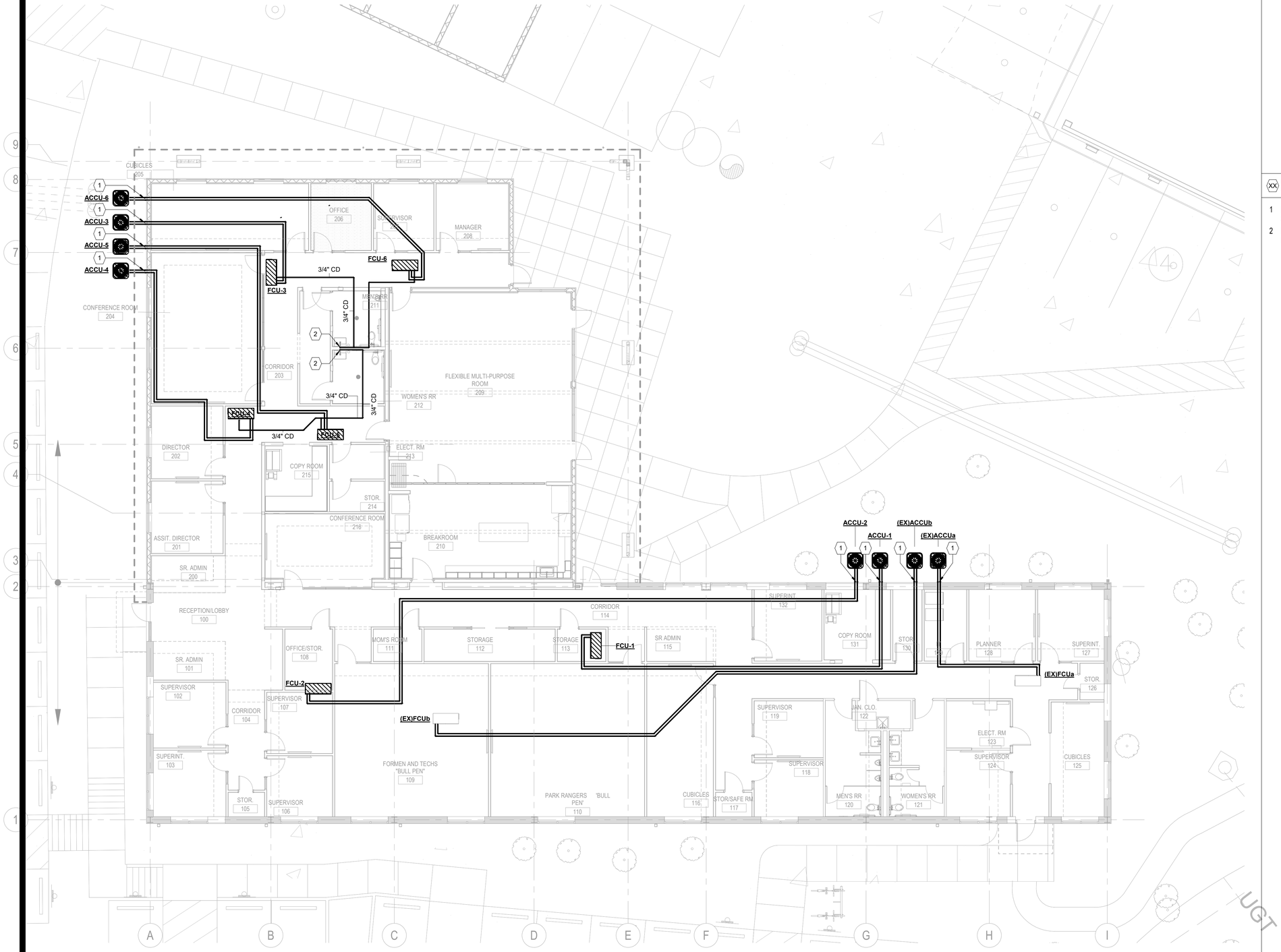
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MECHANICAL DUCTWORK PLAN - BLDG B

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MECHANICAL PIPING PLAN - BLDG A&C

1/8" = 1'-0"

1

(XX) INDICATES KEYED NOTE

KEYED NOTES

1 ROUTE REFRIGERANT LINES UP EXTERIOR WALL AND INTO CEILING SPACE.

2 ROUTE 3/4" CONDENSATE DRAIN LINE DOWN TO P-TRAP UNDER LAVATORY.

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MECHANICAL PIPING PLAN - BLDG A&C

M3.01

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FAN SCHEDULE

GENERAL				PERFORMANCE DATA			MOTOR DATA						
MARK	LOCATION	FAN TYPE	SERVICE	AIRFLOW CFM	EXTERNAL SP (IN H20 W.G.)	FAN RPM	HP (WATTS)	MOTOR RPM	VOLT/PHASE/HZ	DRIVE TYPE	INTERLOCK	MANUFACTURER/ MODEL	REMARKS
EF-4	CEILING	UPBLAST	WOMENS RR 212	75	0.38	950	15	1725	120/1/60	DIRECT	SWITCH	GREENHECK: SP-A110	1-4
EF-5	CEILING	UPBLAST	MENS RR 211	75	0.38	950	15	1725	120/1/60	DIRECT	SWITCH	GREENHECK: SP-A110	1-4

NOTES:

1) PROVIDE WITH BACKDRAFT DAMPER.
2) PROVIDE WITH INTERNAL VARIABLE SPEED DRIVE OR ECM MOTOR.
3) PROVIDE DAMPER SAME VOLTAGE AS FAN.
4) PROVIDE WITH ALUMINUM GRILLE.

DX SPLIT SYSTEM

GENERAL									EVAPORATOR SECTION								HEATING				ELECTRICAL			CONDENSER SECTION							NOTES
UNIT TAG	SERVICE	MANUFACT.	FCU MODEL #	FURNACE MODEL #	ACCU MODEL #	UNIT CONFIGURATION	REFRIG.	UNIT SEER/EER	SA CFM	OA CFM	EXT. SP. WG "	EA DB TEMP. (F)	EA WB TEMP. (F)	COIL LA DB TEMP. (F)	COIL LA WB TEMP. (F)	SENSIBLE LOAD (BTUH)	TOTAL LOAD (BTUH)	EA DB TEMP. (F)	LA DB TEMP. (F)	GAS BTUH INPUT	GAS BTUH OUTPUT	MCA	MOCP	VOLTAGE	WEIGHT LBS.	CONDENSER TAG	AMBIENT TEMPERTURE	MCA	MOCP	VOLTAGE	WEIGHT LBS.	
FCU-1	BLDG A	TRANE	5TXCD008AS3	S8X2C080M5PSC	5TTR4060A1	HORIZONTAL	R-454B	11.7 EER	1,960	200	1.5	76.1	62.9	54.9	53.6	42.5	53.8	66.0	90.0	93,120	77,600	14.1	15	115/1/60	139	ACCU-1	105	10.2	15	460/3/60	252	1-16
FCU-2	BLDG A	TRANE	5TXCB006AS3	S8X1B060M4PSC	5TTR3048A1	HORIZONTAL	R-454B	12.2 EER	1,430	100	1.5	75.3	61.9	55.0	53.6	28.2	34.6	67.5	90.0	69,840	58,200	10.3	15	115/1/60	122	ACCU-2	105	23	35	208/1/60	257	1-16
FCU-3	BLDG C	TRANE	5TXCB006AS3	S8X1B060M4PSC	5TTR4036A1	HORIZONTAL	R-454B	12.0 EER	1,110	80	1.5	75.3	61.9	55.0	52.9	24.6	29.0	67.6	90.0	69,840	58,200	10.3	15	115/1/60	122	ACCU-3	105	18	30	208/1/60	156	1-16
FCU-4	BLDG C	TRANE	5TXCB006AS3	S8X1B060M4PSC	5TTR4036A1	HORIZONTAL	R-454B	12.0 EER	1,020	130	1.5	76.8	63.6	53.9	52.8	23.0	32.1	64.7	90.0	69,840	58,200	10.3	15	115/1/60	122	ACCU-4	105	18	30	208/1/60	156	1-16
FCU-5	BLDG C	TRANE	5TXCB006AS3	S8X1B060M4PSC	5TTR4036A1	HORIZONTAL	R-454B	12.0 EER	950	140	1.5	77.3	64.7	55.0	53.4	22.4	31.6	63.5	90.0	69,840	58,200	10.3	15	115/1/60	122	ACCU-5	105	18	30	208/1/60	156	1-16
FCU-6	BLDG C	TRANE	5TXCD008AS3	S8X2C080M5PSC	5TTR4060A1	HORIZONTAL	R-454B	11.7 EER	1,450	250	1.5	78.7	65.0	55.0	52.2	37.5	53.5	52.7	90.0	93,120	77,600	14.1	15	115/1/60	139	ACCU-6	105	10.2	15	460/3/60	252	1-16

NOTES:

1 PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
2 PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH INSULATED SUB-BASE, AUTO-CHANGE OVER, HUMIDITY SENSOR, DEHUMIDIFICATION CONTROL SEQUENCE, AND LOCKING THERMOSTAT COVER.
3 PROVIDE WITH 30% PRE-FILTER. ESP INCLUDES 0.5" FOR DIRTY FILTER.
4 SIZE AND ROUTE REFRIGERANT LINES ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
5 INTERLOCK OUTSIDE AIR DAMPER TO SUPPLY FAN.
6 PROVIDE THERMOSTATIC EXPANSION VALVE.
7 PROVIDE VIBRATION ISOLATION PACKAGE.
8 PROVIDE WITH MANUFACTURER INSTALLED FILTER DRYER.
9 INTERNAL COMPRESSOR HIGH/LOW PRESSURE AND TEMPERATURE PROTECTION.
10 CONDENSER TO BE MOUNTED ON GRADE OR SLAB PROVIDE 4"CONCRETE HOUSEKEEPING PAD WITH 145 MPH RATED TIE DOWNS.
11 PROVIDE LOW AMBIENT KIT FOR OPERATION TO 20 DEGREES F.
12 PROVIDE ANTI-SHORT CYCLE TIMER.
13 PROVIDE WITH FLOAT SWITCH IN DRAIN PAN TO DE-ENERGIZE UNIT IF PRIMARY DRAIN FAILS.
14 FOR UNITS IN UN-AIR CONDITIONED SPACES, PROVIDE WITH MINIMUM 1" INTERNAL INSULATION INCLUDING ON INTERNAL EQUIPMENT FRAMING.
15 PROVIDE RAWAL VALVE OR EQUAL FOR HOT GAS BY-PASS.
16 PROVIDE UNIT WITH GAS HEAT

AIR DEVICE SCHEDULE

MARK	TYPE	MANUFACTURER/MODEL	REMARKS
A	ARCHITECTURAL SQUARE PANEL SUPPLY AIR DEVICE	TITUS: OMNI-AA	24"X24" OR 12"X12" FACE AREA. AIR PATTERN SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS. FLEX SUPPLYING DIFFUSER TO BE SAME AS NECK SIZE.
B	PERFORATED PANEL RETURN/EXHAUST AIR DEVICE	TITUS: PAR-AA	24"X24" OR 12"X12" FACE AREA WITH 22"X22" AND 10"X10" NECK RESPECTIVELY FOR OPEN GRILLES. PROVIDE PER SCHEDULE FOR DUCTED GRILLES. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS. FLEX SUPPLYING GRILLE TO BE SAME AS NECK SIZE.
C	SIDEWALL SUPPLY AIR DIFFUSER	TITUS: 272 FS	SUPPLY AIR DOUBLE-DEFLECTION RECTANGULAR SIDEWALL DIFFUSER. 3/4" SPACE BLADES. FRONT BLADES PARALLEL TO SHORT SECTION. REFER TO PLANS FOR SIZE (W"XH") AND AIR QUANTITY. PROVIDE WITH OPPOSED BLADE DAMPER.
D	SIDEWALL RETURN/EXHAUST GRILLE	TITUS: 350FL	SIDEWALL RETURN/EXHAUST GRILLE. 3/4" SPACE BLADES, 45 DEGREE DEFLECTION. BLADES PARALLEL TO LONG DIMENSION. REFER TO PLANS FOR SIZE (W"XH") AND AIR QUANTITY. PROVIDE WITH OPPOSED BLADE DAMPER.

NOTES:

1 CEILING DIFFUSERS ARE 4-WAY UNLESS INDICATED OTHERWISE IN THE DRAWINGS.
2 PROVIDE BLOW CLIPS TO DIRECT AIR FLOW AWAY FROM WALLS AND GLASS WHEN DEVICES ARE WITHIN 4' OF A WALL.
3 ALL VISIBLE SURFACES OF THE RETURN/EXHAUST PLENUM AND DUCT CONNECTION SHALL BE PAINTED FLAT BLACK.
4 AIR DEVICE FRAME AND STYLE SHALL MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
5 PROVIDE MANUFACTURER'S INSULATED BACKPAN FOR ALL SUPPLY AIR DEVICES.
6 ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION.
7 REFER TO ARCHITECT FOR FINISHES AND COLOR OF DEVICES.

AIR DEVICE CONNECTION SCHEDULE

AIR QUANTITY (CFM)	DEVICE NECK SIZE	BRANCH DUCT SIZE	
		ROUND DUCT	ALTERNATE RECTANGULAR DUCT
CEILING DIFFUSERS			
0-125	6"ø	6"ø	6X6
126-250	8"ø	8"ø	8X8
251-375	10"ø	10"ø	10X10
376-475	12"ø	12"ø	12X10
476-600	14"ø	14"ø	14X14
601-850	16"ø	16"ø	16X16
SIDEWALL GRILLES			
ALL CFM'S		REFER TO DRAWINGS	REFER TO DRAWINGS
SLOT DIFFUSERS			
0-125	6"ø	6"ø	REFER TO DRAWINGS
256-250	8"ø	8"ø	
276-375	10"ø	10"ø	

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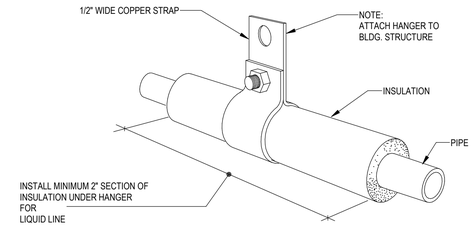
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MECHANICAL SCHEDULES

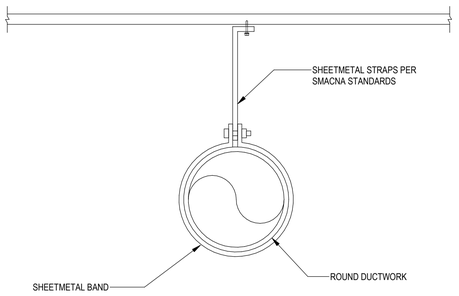
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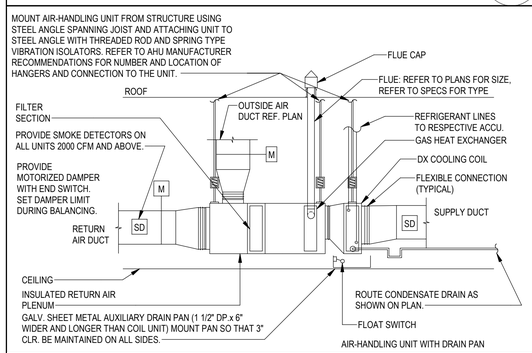
CITY STAMP APPROVAL



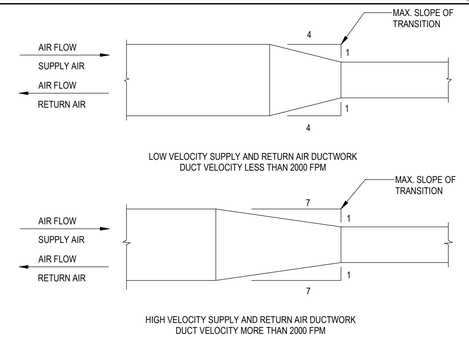
REFRIGERANT PIPING HANGER 8
NTS



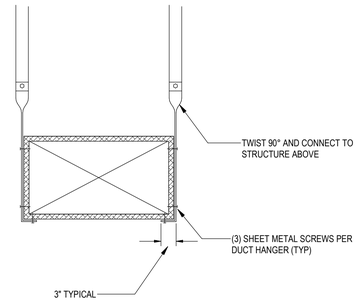
DUCT HANGER DETAIL (ROUND DUCT) 5
NTS



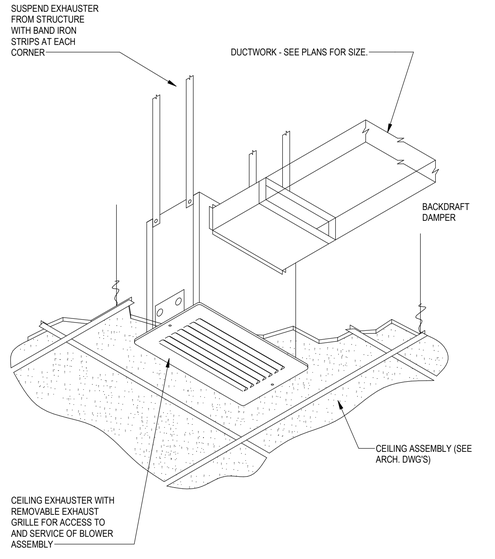
HORIZONTAL GAS FURN. AND DX COIL 7
NTS



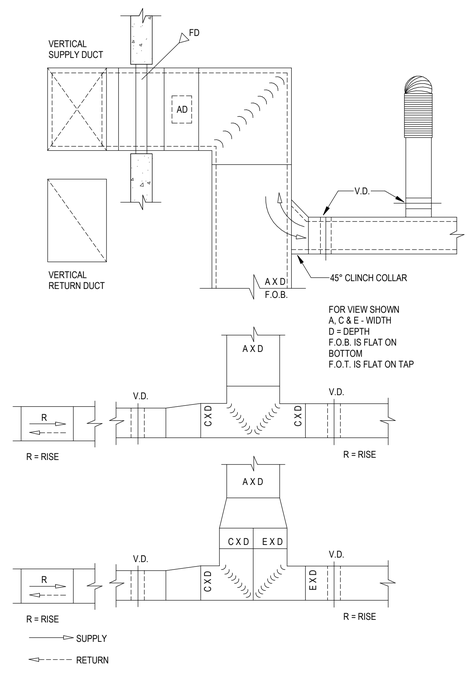
RECTANGULAR DUCT TRANSITION 4
NTS



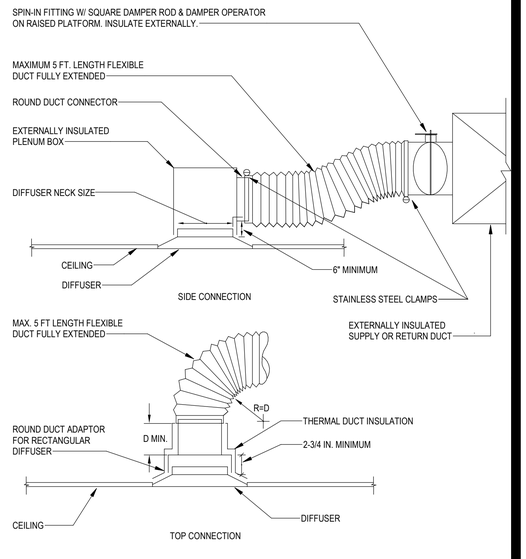
DUCT HANGER (RECTANGULAR) 2
NTS



CEILING MOUNTED EXHAUST FAN 6
NTS



SUPPLY DUCT CONST. DETAIL 3
NTS



NOTES:

1. IF THERE IS INSUFFICIENT HEADROOM FOR TOP CONNECTION AS DETAILED, USE SIDE CONNECTION.
2. USE RIGID ROUND INSULATED DUCT FOR LENGTHS IN EXCESS OF 5'-0".
3. USE ONLY ON SUPPLY AND RETURN BRANCHES TO CEILING DEVICES.
   USE RIGID DUCT ON ALL BRANCHES TO EXHAUST DEVICES AND ON EXPOSED APPLICATIONS.
4. BRANCH DUCT SHALL BE SAME SIZE AS DIFFUSER CONNECTION.

FLEXIBLE DUCT CONNECTION DETAIL 1
NTS

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10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

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24026	24 x 36

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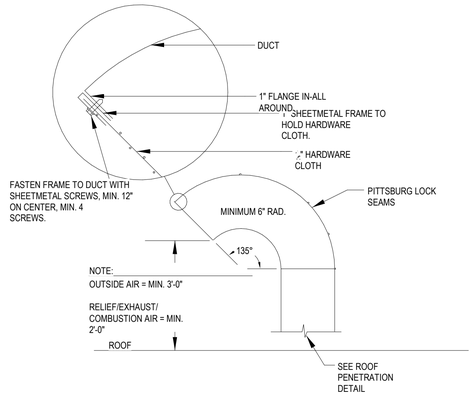
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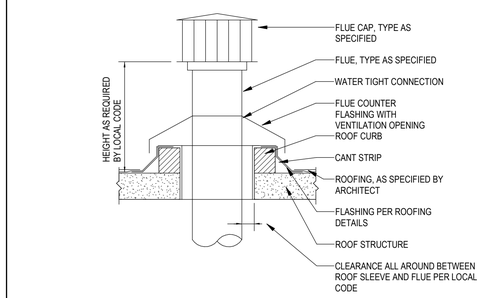
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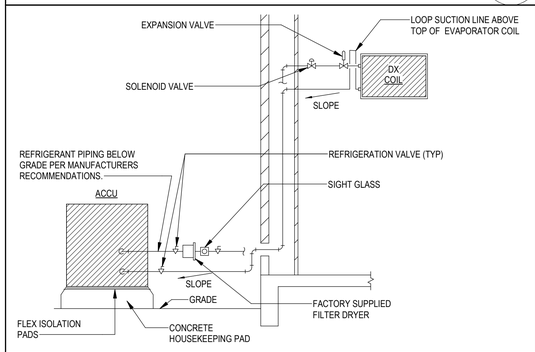
NOTES:

1. SEAL ALL DUCT WEATHER TIGHT.
2. DUCT CONSTRUCTION TO MATCH SYSTEM TYPE AS SPECIFIED.

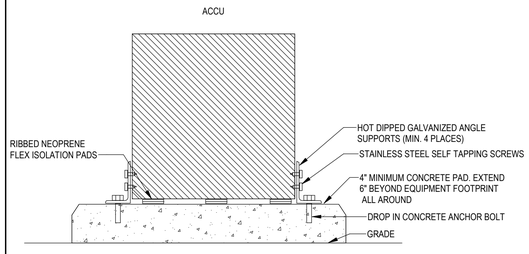
GOOSENECK TERMINATION
NTS
2



FURNACE FLUE INSTALLATION
NTS
4



REFRIG. PIPING INST.(GROUND)
NTS
3



CONDENSING UNIT HOLD DOWN
NTS
1

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ELECTRICAL SYMBOL LEGEND

MISCELLANEOUS

T	TRANSFORMER
400A / 3P	AUTOMATIC TRANSFER SWITCH AMPS / POLES AS INDICATED ON PLANS
	MOTOR
	MAGNETIC MOTOR STARTER, H-O-A-P UNO
	COMBINATION MOTOR CONTROLLER AND NON-FUSED DISCONNECT SWITCH
	DISCONNECT SWITCH - 30A, NON-FUSED, 3-POLE UNO. NEMA 1 ENCLOSURE EXCEPT "3R" INDICATES NEMA 3R.
	VARIABLE FREQUENCY DRIVE FURNISHED BY DIV 23, CONNECTED BY DIV 26
IR	INFRARED SENSORS. SENSORS SHALL BE CONNECTED TO CORRIDOR LIGHTING
KP	KEY PAD. CONTRACTOR RESPONSIBLE TO PROVIDE ALL REQUIRED HARDWARE AND ELECTRICAL CONNECTIONS.
DC	DOOR CONTACT. CONTRACTOR RESPONSIBLE TO PROVIDE ALL REQUIRED HARDWARE AND ELECTRICAL CONNECTIONS.
E	PUSHBUTTON K = KEY OPERATED SWITCH (UP / OFF / DOWN POSITION) E = EMERGENCY POWER OFF BUTTON
R	RELAY
100	UNFUSED SWITCH - 100 AMP 3 POLE, UNO
100	CIRCUIT BREAKER - 100 AMP FRAME, 3 POLE, UNO
100/100	FUSED SWITCH 100 AMP SWITCH/100 AMP TYPE "FA". FUSE 3 POLE UNO
J	CEILING MOUNTED JUNCTION BOX
J	FLUSH WALL MOUNTED JUNCTION BOX FOR MOUNTING HEIGHT REFER TO ARCHITECTURAL AND MEDICAL EQUIPMENT PLAN DRAWINGS.
J	FLOOR MOUNTED JUNCTION BOX
	CONDUIT TURNING UP/DOWN
	CAPPED CONDUIT
	GROUND CONNECTION
1LB-1,3,5	CONDUIT HOME RUN TO PANEL BOARD "1LB" WITH CIRCUITS 1,3,5
CB 100 / 60	FLUSH MOUNTED CIRCUIT BREAKER 100A FRAME/60A TRIP 3 POLE UNO
	PANELBOARD
GAP	GENERATOR ANNUNCIATOR PANEL
	NEW CONSTRUCTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	LIGHTING CIRCUITING AREA, REFER TO PLANS FOR EXACT CIRCUIT(S)

FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM REMOTE ANNUNCIATOR
	FIRE ALARM STROBE
	FIRE ALARM SPEAKER STROBE
SP	FIRE ALARM SPEAKER
TS	FIRE ALARM TAMPER SWITCH
WF	FIRE ALARM WATER FLOW
S	SMOKE DETECTOR
D	DUCT SMOKE DETECTOR
H	HEAT DETECTOR
F	MANUAL PULL STATION
DH	FIRE ALARM MAGNETIC DOOR HOLD-OPEN
F	FIREMAN'S PHONE
FT	FIREMAN'S PHONE HANDSET

ELECTRICAL SYMBOL LEGEND

POWER / DATA

	DUPLEX CONVENIENCE RECEPTACLE 20A UNLESS OTHERWISE SPECIFIED NUMERAL INDICATES CKT NUMBER ISOLATED GROUND = SHADED INTERIOR GROUND FAULT INTERRUPTOR = DIAGONAL LINE ABOVE COUNTER (+42" UNO) = CHEVRON GFCI BREAKER = ASTERISK HALF CONTROLLED = HALF SHADED AND CONTROL SYMBOL FULLY CONTROLLED = TWO SHADED AND CONTROL SYMBOL USB = BACK HALF SHADED * ALL RECEPTACLES ON DEDICATED 20 AMP CIRCUITS SHALL BE RATED 20A. "WP" INDICATES WEATHERPROOF COVER
	CEILING MOUNTED DUPLEX CONVENIENCE RECEPTACLE
	QUADRUPLEX RECEPTACLE. REFER TO SYMBOLOGY OF DUPLEX RECEPTACLES.
	SINGLE POWER RECEPTACLE. 125V 3W GNDG UNO.
	250V RATED SPECIAL PURPOSE RECEPTACLE, REFER TO NOTES FOR NEMA CONFIGURATION.
	FLUSH FLOOR DEVICE, REFER TO PLANS FOR NEMA CONFIGURATION AND DATA REQUIREMENTS.
	POWER POLE WITH DUPLEX RECEPTACLES, REFER TO PLANS FOR QUANTITIES AND DETAILS.
	WALL MOUNTED DATA, D2 UNLESS NOTED OTHERWISE
	WALL MOUNTED DATA/TELEPHONE, D2 UNLESS NOTED OTHERWISE
	WALL MOUNTED TELEPHONE OUTLET WITH PLATE
+XX"	INDICATES WALL OUTLET AT NON-STANDARD HEIGHT WHEN SHOWN ADJACENT TO ANY OUTLET OR RECEPTACLE. AT COUNTERS, MOUNT 6" ABOVE SPLASH UNO.
	PLUGMOLD WITH DUPLEX OUTLETS, 18" OC UNO "12" INDICATES OUTLETS AT 12" OC. "24" INDICATES OUTLETS AT 24" OC. "C" INDICATES WITH COMM COMPARTMENT

LIGHTING

	SURFACE OR SUSPENDED CEILING FIXTURE REFER TO FIXTURE SCHEDULE FOR MOUNTING REQUIREMENTS. COORDINATE MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECTURAL DRAWINGS
	HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY LIFE SAFETY SYSTEM OR BATTERY PACK
	POLE MOUNTED AREA LIGHT
	EMERGENCY BATTERY PACK FIXTURE
	CEILING EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED, SHADED QUADRANTS INDICATE ILLUMINATED FACES
H	WALL EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED SHADED QUADRANTS INDICATE ILLUMINATED FACES

LIGHTING CONTROLS

	OCCUPANCY SENSOR CEILING MOUNT, "VS" INDICATES VACANCY SENSOR
	OCCUPANCY SENSOR WALL MOUNT, "VS" INDICATES VACANCY SENSOR
PP	LIGHTING CONTROL POWER PACK
$X x	TOGGLE SWITCH, 15A / 277VAC UON, LOW VOLTAGE UON 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY a = CONTROLS OUTLET OR FIXTURE NOTED "a" K = KEY OPERATED P = WITH PILOT LIGHT T = INTERVAL TIMER, 30 MIN. UON M = MOTOR RATED SWITCH. RATED FOR MOTOR SERVED MO = SPDT MOMENTARY CONTACT D = DIMMER SWITCH OC = OCCUPANCY SENSOR VS = VACANCY SENSOR
PC	PHOTOCELL CONTROL SWITCH
TC	TIME CLOCK
LCP	LIGHTING CONTROL PANEL

ABBREVIATIONS

A	AMPS	KVA	KILOVOLT AMPERES
AC	ALTERNATING CURRENT / ABOVE COUNTER	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOURS
AFG	ABOVE FINISHED GRADE	LP	LIGHTING PANEL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MC	METAL-CLAD CABLE
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
AUX	AUXILLARY	MCC	MOTOR CONTROL CENTER
A/V	AUDIO / VISUAL	MCM	THOUSAND CIRCULAR MILS
AWG	AMERICAN WIRE GAUGE	MCP	MOTOR CONTROL PANEL
C/T	CURRENT TRANSFORMER	MIC	MICROPHONE
DP	DISTRIBUTION PANEL	MLO	MAIN LUGS ONLY
E	EXISTING TO REMAIN	NC	NORMALLY CLOSED
EM	ON EMERGENCY CIRCUIT	NF	NON-FUSE
EMT	ELECTRICAL METALLIC TUBING	NL	ON NIGHT LIGHTING CIRCUIT
EPO	EMERGENCY POWER OFF	NO	NORMALLY OPEN
FC	FOOT CANDLE	OL	OVERLOAD
GFI	GROUND FAULT CIRCUIT INTERRUPTER	OCP	OVERCURRENT PROTECTION
GFP	GROUND FAULT PROTECTION	PB	PULL BOX
GRC	GALVANIZED RIGID CONDUIT	PVC	POLYVINYL CHLORIDE
HOA	HAND OFF AUTOMATIC	SPD	SURGE PROTECTION DEVICE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	SWBD	SWITCHBOARD
J-BOX	JUNCTION BOX	SWGR	SWITCHGEAR
		SUSP	SUSPENDED

DEMOLITION GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
2. DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PROJECT PHASING REQUIREMENTS.
4. REMOVE ALL ELECTRICAL AND SPECIAL SYSTEMS DEVICES AND EQUIPMENT (LIGHT FIXTURES, FIRE ALARM DEVICES, NURSE CALL DEVICES, WIRING DEVICES, SPEAKERS, ETC.) SHOWN DASHED AND WITHIN DEMOLITION AREA INDICATED BY DASHED WALLS, UNO.
   RETAIN 277 VOLT LIGHTING CIRCUITS TO SERVE NEW AND RELOCATED LIGHT FIXTURES.
5. FOR ALL REMOVED WIRING DEVICES, REMOVE ASSOCIATED BRANCH CIRCUITING AND DATA/COMMUNICATION WIRING AND CONDUIT FROM DEVICE TO SOURCE UNLESS NOTED OTHERWISE OR UNLESS REQUIRED TO MAINTAIN SERVICE TO DEVICES IN ADJACENT AREAS.
6. MAINTAIN SERVICE TO LIGHT FIXTURES, WIRING DEVICES, FIRE ALARM AND SPECIAL SYSTEM DEVICES OUTSIDE OF WORK AREA.
7. "R" DENOTES REMOVE AND REINSTALL TO NEW SHEET AS INDICATED.

FIRE ALARM GENERAL NOTES

1. FIRE ALARM DESIGN PLANS SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION AND THE INSTALLATION MUST BE APPROVED BEFORE THE CERTIFICATE OF OCCUPANCY MAY BE ISSUED.
2. DESIGN OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BACK BOXES AND OTHER NECESSARY ROUGH IN. COORDINATE LOCATION OF ALL DEVICES WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH IN.
3. ALL FIRE ALARM DEVICES SHALL MATCH BASE BUILDING STANDARD DEVICES AND SHALL BE CONNECTED TO THE EXISTING BUILDING FIRE ALARM SYSTEM.
4. ALL STROBE DEVICES SHALL BE LOCATED ABOVE LIGHT SWITCHES OR WITHIN 6" OF DOOR JAMB OR CORNER OF WALL AS APPLICABLE.
5. ALL VISUAL ALARM STROBES SHALL BE 15/75cd UNLESS NOTED OTHERWISE.

POWER & SPECIAL SYSTEMS GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
2. DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND EXACT LOCATION OF ALL WIRING DEVICES.
4. COORDINATE LOW VOLTAGE SPECIAL SYSTEMS WITH ARCHITECT/OWNER. PROVIDE J-BOX AND 3/4" CONDUIT WITH PULLSTRING AND BUSHINGS TO ABOVE ACCESSIBLE CEILING.
   - PROVIDE BACKBOX AND RACEWAY ROUGH-IN FOR THE FOLLOWING SYSTEMS:
   - SECURITY (CAMERA'S, CARD READERS, ACCESS CONTROL)
   - OVERHEAD PAGE/PUBLIC ADDRESS
   - VOICE/DATA
   - A/V
   - PROVIDE 120V CONTROL REQUIREMENTS FOR THESE SYSTEMS.
   - PROVIDE JUNCTION BOX AND 3/4" CONDUIT WITH PULLSTRING AND BUSHINGS TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT BACK BOX SIZE AND ADDITIONAL REQUIREMENTS WITH THE OWNER'S LOW VOLTAGE CONTRACTOR AND ARCHITECT'S DOOR HARDWARE REQUIREMENTS AND SUBMITTALS.
5. FIRE ALARM SYSTEM IS PERFORMANCE-BASED.
   - *PROVIDE NEW FIRE ALARM SYSTEM TO ACCOMMODATE A COMPLETE WORKING FIRE ALARM SYSTEM, OR*
   - *CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. EXPAND AND MODIFY EXISTING FIRE ALARM SYSTEM TO ACCOMMODATE A COMPLETE WORKING FIRE ALARM SYSTEM.*
   - PROVIDE INTERFACE TO SERVE EGRESS DOORS TO AUTO RELEASE IN THE EVENT OF A FIRE ALARM.
   - FIRST RESPONDER RADIO COVERAGE SHALL BE MET. CONFIRM MINIMUM RADIO SIGNAL STRENGTH WITH THIRD PARTY CONSULTANT/FIRE DEPARTMENT. PROVIDE BDA, DAS OR OTHER TYPE OF RADIO ENHANCEMENT SYSTEM (RES) PER FIRE DEPARTMENT REQUIREMENTS.
   - PROVIDE 120V CONTROL REQUIREMENTS.
6. ALL CONDUCTORS SHALL HAVE A INSULATION RATING OF 75°C.
7. RUN #10 AWG TO FIRST DEVICE OF CIRCUIT IN HOME RUNS BEYOND 75' IN DISTANCE.
8. ALL SINGLE-PHASE RECEPTACLES RATED 150 V TO GROUND OR LESS, 50 A OR LESS AND THREE-PHASE RECEPTACLES RATED AT 150V TO GROUND OR LESS, 100 A OR LESS INSTALLED IN (1) BATHROOMS, (2) KITCHENS, (3) ROOFTOPS, (4) OUTDOORS, (5) SINKS, (6) INDOOR WET LOCATIONS, (7) LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES, (8) GARAGES, SERVICE BAYS, AND SIMILAR AREAS OTHER THAN VEHICLE EXHIBITION HALLS AND SHOWROOMS, (9) CRAWL SPACES AT OR BELOW GRADE LEVEL PER CURRENT NEC 210.8 (B). WHERE GFCI WIRING DEVICES ARE NOT ACCESSIBLE PROVIDE GFCI CIRCUIT BREAKER OR GFCI REMOTE RESET.
9. PROVIDE TAMPER RESISTANT ELECTRICAL DEVICES IN ALL OFFICES, CORRIDORS, AND WAITING ROOMS PER CURRENT NEC 406.12.
10. ALL OUTLET/RECEPTACLE COVER PLATES AND RECEPTACLES TO MATCH. MATCH PREDOMINATE COLOR. PROVIDE WITH WHITE IF ALL NEW.
11. ELECTRICAL OUTLETS AND TELEPHONE/DATA RECEPTACLES SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK TO BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.
12. ELECTRICAL SCHEDULES TO BE PROPERLY LABELED AND RECEPTACLES LABELED ACCURATELY IDENTIFYING PANELS AND CIRCUIT.
13. NO HORIZONTAL CONDUITS ARE ALLOWED EXCEPT UNDER WINDOWS.
14. FLEXIBLE CONDUITS SHALL BE USED ONLY FOR LIGHT FIXTURE WHIPS, RECEPTACLE AND SWITCH CONNECTIONS AND EQUIPMENT CONNECTIONS.
15. ALL FIXTURES AND DEVICES INDICATED AT OFFICE FURNITURE TO BE COORDINATED WITH FURNITURE SUPPLIER TO ALLOW ACCESS TO OUTLETS. OUTLETS SHALL NOT BE PLACED WHERE FURNITURE IS OBSTRUCTING ACCESS TO OUTLETS. FINAL PLACEMENT TO BE APPROVED BY OWNER / ARCHITECT.
16. [CONTROLLED RECEPTACLES] CONTROLLED RECEPTACLES INDICATED ON PLANS TO BE CONTROLLED VIA OCCUPANCY SENSORS LOCATED WITHIN CEILING. CONTRACTOR TO UTILIZE OCCUPANCY SENSOR(S) PROVIDED FOR LIGHTING OR PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED.

LIGHTING GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
2. DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES.
4. CONNECT LIGHT FIXTURES TO BRANCH CIRCUIT IDENTIFIED ADJACENT TO LIGHT SWITCH.
5. RUN #10 AWG TO FIRST DEVICE OF CIRCUIT IN HOMERUNS BEYOND 75' IN DISTANCE.
6. NEW LIGHT FIXTURES SHALL BE PROVIDED WITH LIGHT FIXTURE FIRE RATING THAT MATCHES EXISTING CONSTRUCTION.
7. PROVIDE LOW VOLTAGE DIMMER SWITCHED WITH RAISE/LOWER AND ON/OFF FUNCTION AND CONTROL VIA VACANCY/OCCUPANCY SENSORS. MATCH BASE BUILDING MANUFACTURER. PROVIDE POWER PACKS AS REQUIRED.

LIGHTING COMMISSIONING GENERAL NOTES

1. CONTRACTOR TO PROVIDE COMMISSIONING FOR THIS PROJECT.
2. LATEST ADOPTED INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIRES COMMISSIONING PER SECTION 408.
3. PROVIDE ELECTRICAL SYSTEM FUNCTIONAL TESTING PER IECC 408.3.1 FOR THE FOLLOWING:
   - 408.3.1.1 OCCUPANT SENSOR CONTROL.
   - 408.3.1.2 TIME-SWITCH CONTROLS.
   - 408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS.
4. PROVIDE THE DOCUMENTATION REQUIRED PER IECC 408.3.2.
5. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ELECTRICAL FUNCTIONAL TESTING WITH COMMISSIONING AGENT PRIOR TO FINAL ELECTRICAL INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
6. NOTIFY COMMISSIONING AGENT AT A MINIMUM OF TWO WEEKS PRIOR TO PERFORMING EACH FUNCTIONAL TEST.

CITY STAMP APPROVAL

DRAWING LIST

E0.01	ELECTRICAL SYMBOLS, LEGENDS AND GENERAL NOTES
E0.02	ELECTRICAL SPECIFICATIONS
E1.01	ELECTRICAL SITE PLAN
E1.02A	ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG A
E1.02B	ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG B
E2.01AC	ELECTRICAL POWER PLAN - BLDG A&C
E2.01B	ELECTRICAL POWER AND LIGHTING PLAN - BLDG B
E3.01AC	ELECTRICAL LIGHTING PLAN - BLDG A&C
E4.01AC	ELECTRICAL EQUIPMENT PLAN - BLDG A&C
E7.01	ELECTRICAL RISER DIAGRAM
E8.01	ELECTRICAL SCHEDULES
E8.02	ELECTRICAL SCHEDULES
E8.03	LIGHT FIXTURE SCHEDULE
E9.01	ELECTRICAL DETAILS
E9.02	ELECTRICAL DETAILS

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ELECTRICAL SYMBOLS, LEGENDS AND GENERAL NOTES

E0.01

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GENERAL ELECTRICAL NOTES:

A. BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR WHOSE WORK IS INVOLVED TO VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN HIS FINAL PRICE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.

B. THE CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.

C. WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL ENFORCING AUTHORITY, THE LATTER SHALL RULE. ANY MODIFICATION RESULTING THEREFROM SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE PROVIDED THEY ARE NOT IN CONFLICT WITH THOSE CODES.

D. ALL ITEMS OF EQUIPMENT AND ALL MATERIALS FOR WHICH APPROVAL STANDARDS HAVE BEEN ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC. (UL), FACTORY MUTUAL (FM), CERTIFIED BALLAST MANUFACTURER (CBM), ELECTRICAL TESTING ASSOCIATION (NEMA) SHALL BE SO APPROVED AND SHALL BEAR APPROVAL LABELS.

SUBMITTALS AND SHOP DRAWINGS

A. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH PRODUCT DATA AND SHOP DRAWINGS FOR ALL MATERIALS & EQUIPMENT SPECIFIED BELOW. SUBMITTALS SHALL BE PROVIDED IN AN ELECTRONIC FORMAT. SUBMITTAL DATA SHALL INCLUDE:

1. COVER SHEET WITH NAMES AND ADDRESSES OF PROJECT, ARCHITECT MEP ENGINEER, GENERAL CONTRACTOR & SUB CONTRACTOR.
2. DRAWING REFERENCE NUMBER, PRODUCT NAME AND/OR DESCRIPTION.
3. INDEX OF ALL DATA IN SUBMITTAL.
4. DIMENSIONAL DATA AND SKETCHES SHOWING THAT SUBMITTED EQUIPMENT WILL FIT INTO SPACE AVAILABLE AND WILL HAVE REQUIRED CODE AND MAINTENANCE CLEARANCES.
5. IDENTIFICATION OF EACH ITEM MATCHING THAT INDICATED ON THE DRAWINGS.
6. SUFFICIENT PERFORMANCE DATA, CAPACITY, SOUND DATA, DIAGRAMMATIC DATA AND DESCRIPTIVE INFORMATION TO SHOW ITS COMPLIANCE'S WITH THE CONTRACT DOCUMENTS. OPTIONS OR SPECIAL REQUIREMENTS SHALL BE CLEARLY INDICATED. APPLICABLE INFORMATION SHALL BE CLEARLY INDICATED AND NON APPLICABLE DATA SHALL BE CROSSED OFF.
7. MATERIALS AND EQUIPMENT PURCHASED OR INSTALLED WITHOUT A "NO EXCEPTIONS TAKEN" SHOP DRAWING REVIEW SHALL BE AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL AND AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL AND REPLACEMENT OF SUCH MATERIALS WHICH IS JUDGED UN-SATISFACTORY BY THE ENGINEER FOR ANY REASON SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
8. ANY ITEMS KNOWINGLY SUBMITTED THAT DO NOT COMPLY WITH SPECIFICATIONS SHALL BE LISTED WITH EXPLANATION AS TO WHY THEY ARE BEING SUBMITTED.

B. REQUIRED SUBMITTALS / SHOP DRAWINGS:

1. WIRING DEVICES
2. PANELBOARDS
3. DISCONNECT SWITCHES
4. TRANSFORMERS
5. CONDUIT
6. LIGHTING FIXTURES
7. EQUIPMENT ROOM LAYOUT DRAWINGS TO SCALE

CONDUIT

A. ALL CONDUITS SHALL BE CONCEALED IN PIPE CHASES, WALLS, FURRED SPACED, OR ABOVE THE CEILING OF THE BUILDING UNLESS OTHERWISE INDICATED. CONDUIT SHALL NOT BE EMBEDDED IN ANY STRUCTURAL SLAB OR STRUCTURAL MEMBER UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

B. CONDUIT MAY BE RUN EXPOSED IN MECHANICAL ROOMS, DUCT AND PIPING CHASES, BUT ONLY WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE RUN IN THE NEATEST, MOST INCONSPICUOUS MANNER, AND PARALLEL OR PERPENDICULAR TO THE BUILDING LINES.

C. ALL CONDUIT AND SURFACE RACEWAYS SHALL BE ADEQUATELY AND PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS RECOMMENDED BY THE MANUFACTURER, OR BY THE USE OF HANGER RODS OR CLAMPS.

D. ALL CONDUITS THROUGHOUT THE BUILDING SHALL BE SUPPORTED 8 FEET ON CENTERS HORIZONTALLY AND SUPPORTED 6 FEET ON CENTERS VERTICALLY.

E. VERTICAL CONDUITS SHALL BE SUPPORTED FROM FLOOR LINES WITH RISER CLAMPS SIZED TO FIT THE CONDUIT AND TO ADEQUATELY ALLOW FOR CONTRACTION. AT THE BASES OF CONDUIT. WHERE REQUIRED FOR PROPER SUPPORT, PROVIDE ANCHOR BASE FITTINGS OR OTHER APPROVED SUPPORTS.

F. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, OR EQUIPMENT.

G. THE LOAD AND SPACING ON EACH HANGER AND/OR INSERT SHALL NOT EXCEED THE SAFE ALLOWABLE LOAD FOR ANY COMPONENT OF THE SUPPORT SYSTEM, INCLUDING THE CONCRETE WHICH HOLDS THE INSERTS. REINFORCEMENT AT INSERTS SHALL BE PROVIDED AS REQUIRED TO DEVELOP THE STRENGTH REQUIRED.

H. ALL CONDUITS NOT EMBEDDED IN CONCRETE OR MASONRY SHALL BE SECURELY AND INDEPENDENTLY SUPPORTED SO THAT NO STRAIN WILL BE TRANSMITTED TO OUTLET BOX AND PULL BOX SUPPORTS, ETC. SUPPORTS SHALL BE RIGID ENOUGH TO PREVENT DISTORTION OF CONDUITS DURING WIRE PULLING.

I. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT, OR SURFACE METAL RACEWAYS.

J. RIGID STEEL CONDUIT SHALL BE USED WHERE CONDUIT IS UNDERGROUND, IN A CONCRETE SLAB WITH A VAPOR BARRIER, EXPOSED TO THE WEATHER, IN DAMP OR OTHER WET LOCATIONS, WHERE EXPOSED TO VIEW, WHERE SUBJECT TO PHYSICAL DAMAGE, OR IN SIZES GREATER THAN 4" IN DIAMETER.

K. CONDUIT SHALL BE JOINED WITH THREADED COUPLINGS AND SHALL BE SECURED IN CABINETS, OUTLETS, ETC., WITH DOUBLE LOCKNUTS AND SHALL BE PROVIDED WITH INSULATED BUSHINGS AS MANUFACTURED BY MIDWEST, STEEL CITY, OR EFCOR. COUPLINGS, ETC., SHALL BE THREADED.

L. RIGID STEEL CONDUIT SHALL BE HOT DIPPED GALVANIZED INSIDE AND OUT. FULL LENGTHS OF PIPE SHALL HAVE GALVANIZED OR ZINC- COATED THREADS ON BOTH ENDS.

M. RIGID STEEL CONDUIT SHALL BE PITTSBURGH STANDARD, REPUBLIC, ALLIED, TRIANGLE, ROME, SPANG, WESTERN, WHEATLAND, WESTERN TUBE AND CONDUIT, OR YOUNGSTOWN HOT DIPPED GALVANIZED INSIDE AND OUT, NATIONAL "SHERADUCT", WALKER "DUALCOTE", OR GENERAL ELECTRIC (J&L) "WHITE" ZINC METALLIZED INSIDE AND OUT, OR APPROVED EQUAL.

N. EMT MAY BE USED INDOORS WHERE CONCEALED OR EXPOSED ABOVE GRADE, EXCEPT WHERE RIGID STEEL CONDUIT IS REQUIRED. ELECTRICAL METALLIC TUBING SHALL BE MADE OF THIN-WALL STEEL TUBING SHALL BE MADE OF THIN-WALL STEEL TUBING UP TO 4" CONDUIT SIZE, AND SHALL BE GALVANIZED INSIDE AND OUTSIDE.

O. EMT SHALL BE JOINED WITH STEEL SET SCREW TYPE COUPLINGS AND CONDUITS SHALL BE SECURED WITH STEEL SET SCREW TYPE CONNECTORS AT PANELS, JUNCTION BOXES, OUTLETS, ETC. EMT WHICH IS CAST IN CONCRETE SHALL BE JOINED USING CONCRETE TIGHT COMPRESSION FITTINGS. DIE CAST TYPE CONNECTORS ARE NOT ACCEPTABLE.

P. IF IT COMPLIES WITH THESE SPECIFICATIONS, CONDUIT AND CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: AFC CABLE SYSTEMS, ALLIED, ANAMET, CALCONDUIT, ELECTRI-FLEX, FSR, O-Z/GEDNEY, PLASTI-BOND.

Q. METAL CONDUIT SHALL BE OF AMPLE SIZE TO PERMIT THE EASY INSERTION OR WITHDRAWAL OF CONDUCTORS WITHOUT ABRASION. ALL JOINTS SHALL BE CUT SQUARE, REAMED SMOOTH AND DRAWN UP TIGHT. NO NON-FLEXIBLE METAL CONDUIT SHALL BE SMALLER THAN 1/2"C.

R. SO FAR AS PRACTICABLE, ALL EXPOSED METAL CONDUIT SHALL RUN WITHOUT TRAPS. WHERE TRAPS OR DIPS ARE UNAVOIDABLE, A JUNCTION OR PULL BOX SHALL BE PLACED AT EACH LOW POINT.

S. EACH ENTIRE METAL CONDUIT SYSTEM SHALL BE INSTALLED COMPLETE BEFORE ANY CONDUCTORS ARE DRAWN IN. TO GUARD AGAINST OBSTRUCTIONS AND OMISSIONS. EACH RUN OF CONDUIT SHALL BE FINISHED BEFORE PLASTERING IS INSTALLED. ALL METAL CONDUIT SHALL BE SWABBED AFTER PLASTER IS FINISHED AND DRY.

T. AS SOON AS CONDUIT HAS BEEN PERMANENTLY INSTALLED IN PLACE, CONDUIT SHALL BE CAPPED OR PLUGGED WITH STANDARD ACCESSORIES.

U. CONDUITS USED FOR DATA, PHONE AND PULLSTRINGS SHALL TERMINATE WITH PLASTIC GROMMET INSERTS SO THAT THE CABLE IS NOT DAMAGED BY THE OPEN END OF THE CONDUIT.

V. ALL CONDUITS IN WALLS SHALL BE RUN VERTICALLY. HORIZONTAL RUNS IN WALLS ARE NOT ACCEPTABLE EXCEPT FOR RECEPTACLES UNDER WINDOWS.

FLEXIBLE METAL CONDUIT

A. FLEXIBLE METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED STEEL STRIP, SPIRAL WOUND AND INTERLOCKED, AND SHALL BE PROVIDED WITH INSULATED ANTI SHORT BUSHINGS AT ALL TERMINATIONS.

B. FLEXIBLE METAL CONDUIT SHALL BE SECURED WITH GALVANIZED CONNECTORS SUITABLE FOR CONNECTION TO THE ASSOCIATED BOXES AND CONDUITS. DIE CAST CONNECTORS ARE NOT ACCEPTABLE

C. FLEXIBLE METAL CONDUIT AND LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE SECURED NO LESS THAN EVERY 54" AND WITHIN 12" OF A JUNCTION BOX. IT IS NOT ACCEPTABLE TO LAY CABLES ON CEILING, DUCTWORK, ETC.

D. CONTINUITY OF THE EQUIPMENT GROUND ACROSS FLEXIBLE METAL CONDUIT CONNECTIONS SHALL BE MAINTAINED FOR ALL SYSTEMS THAT ARE OVER 150 VOLTS TO GROUND. THE CONTINUITY SHALL BE MAINTAINED BY INSTALLING A BARE COPPER BONDING CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250 122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE BARE COPPER BONDING CONDUCTOR SHALL BE INSTALLED OUTSIDE THE FLEXIBLE CONDUIT AND SHALL BE CONNECTED ON ONE END OF THE FLEXIBLE CONDUIT BY A SUITABLE BINDING POST AN SIMILARLY CONNECTED ON THE OPPOSITE END WITH ANOTHER SUITABLE BINDING POST.

E. IF IT COMPLIES WITH THESE SPECIFICATIONS, CONDUIT AND CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: AFC CABLE SYSTEMS, ALLIED, ANAMET, CALCONDUIT, ELECTRI-FLEX, FSR, O-Z/GEDNEY, PLASTI-BOND, OR AN APPROVED EQUAL.

TYPE "MC" ARMORED CABLE

A. ARMORED CABLE USED FOR CONNECTION OF FIXTURE TAILS, SWITCH LEGS AND RECEPTACLES SHALL BE 2 WIRE TYPE, WITH 2- #12 "THHN" SOLID COPPER INSULATED PHASE CONDUCTORS AND A BARE BONDING CONDUCTOR. IF ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, TYPE "MC" CABLE MAY BE USED IN WALL PARTITIONS (AND FOR SWITCH LEGS) IN FINISHED AREAS ONLY.

B. WHERE PERMITTED BY THE LOCAL AUTHORITY - ARMORED CABLE MAY BE USED INDOORS WHERE CONCEALED ABOVE GRADE, FOR FIXTURE-TAILS OF INDIVIDUAL LIGHTING FIXTURES IN SUSPENDED ACCESSIBLE TYPE CEILINGS. THESE FIXTURE-TAILS SHALL IN LENGTHS NOT TO EXCEED 6 FEET FOR CONNECTION TO THEIR ASSOCIATED LIGHTING JUNCTION BOXES. THE POINT OF CONNECTION OF THE ARMORED CABLE TO THE INDIVIDUAL LIGHTING FIXTURES SHALL NOT BE MORE THAN 3" FROM THE FIXTURE BALLASTS.

C. WHERE PERMITTED BY THE AUTHORITY HAVING JURISDICTION - ARMORED CABLE MAY BE USED INDOORS FOR INDIVIDUAL DROPS TO OUTLETS AND SWITCHES, WHERE CONCEALED IN EXISTING WALLS AND PARTITIONS PROVIDED THE FOLLOWING CONDITIONS ARE MET:

1. THE CIRCUIT PROVIDING THE POWER FOR THE SWITCH OR OUTLET IS NOT FED FROM THE ESSENTIAL POWER SYSTEM (EXCEPT AS ALLOWED BY THE NATIONAL ELECTRICAL CODE, SECTION 517-30(C)).
2. THE BRANCH CIRCUIT HOMERUN WIRING IS INSTALLED IN THE ACCESSIBLE CEILING PLENUM USING METAL CONDUIT.
3. JUNCTION BOXES ARE LOCATED IN THE ACCESSIBLE CEILING PLENUM ADJACENT TO THE ASSOCIATED WALLS OR PARTITIONS IN WHICH OUTLETS OR SWITCH LEGS ARE INSTALLED.
4. LENGTH OF ARMORED CABLE DROP IS NOT GREATER THAN 12' -0".
5. ARMORED CABLE SHALL NOT BE USED FOR HOMERUN WIRING. HOMERUNS SHALL BE HARD PIPED WITH THE USE OF METAL CONDUIT.

D. ARMORED CABLE SHALL BE PROVIDED WITH INSULATED ANTI-SHORT BUSHINGS AT ALL TERMINATIONS. ARMORED CABLE CONNECTORS SHALL BE STEEL GALVANIZED OR, SUITABLE FOR CONNECTION TO ASSOCIATED BOXES. DIE CAST CONNECTORS ARE NOT ACCEPTABLE.

E. ARMORED CABLE SHALL BE SECURED NO LESS THAN EVERY 54" AND WITHIN 12" OF A JUNCTION BOX. IT IS NOT ACCEPTABLE TO LAY CABLES ON CEILING, DUCTWORK, ETC.

F. IF IT COMPLIES WITH THESE SPECIFICATIONS, ARMORED CABLE AND CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: AFC CABLE SYSTEMS, ALLIED, ANAMET, CALCONDUIT, ELECTRI-FLEX, FSR, O-Z/GEDNEY, PLASTI-BOND.

OUTLET BOXES

A. REFER TO THE ARCHITECT AND VENDOR'S DRAWINGS FOR EXACT MOUNTING HEIGHT AND LOCATION OF ALL ELECTRICAL/TELEPHONE/DATA DEVICES.

B. ALL METAL OUTLETS AND JUNCTION BOXES, EXCEPT WHERE OTHERWISE SPECIFIED, SHALL BE OF ONE PIECE CONSTRUCTION, AND SHALL BE PROTECTED AGAINST CORROSION BY AN APPROPRIATE GALVANIZING PROCESS.

C. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS OF THE SAME MANUFACTURER AS THE BOXES. THE TYPE OF COVER SELECTED SHALL MEET THE CONDITIONS IMPOSED IN EVERY CASE. ALL SUCH BOXES SHALL BE LEFT IN A NEAT, CLEAN AND WORKMANLIKE MANNER.

D. THE OUTLET BOXES SHALL BE SECURELY ATTACHED TO THE PARTITION STUDS. IT IS NOT ACCEPTABLE TO SECURE OUTLET BOXES ONLY TO DRYWALL PARTITION. SECURE ONE SIDE OF THE BOX TO WALL STUD. THE OTHER SIDE OF EACH BOX SHALL BE SUPPORTED WITH A BRACKET EQUAL TO THE INSIDE DIMENSION OF THE WALL STUD SO WHEN BOTH SIDES OF THE GYP BOARD HAVE BEEN INSTALLED, THE BOX DOES NOT MOVE. PROVIDE APPROPRIATE SUPPORTING DEVICES FOR OUTLET BOXES BY CADDY FASTENERS OR EQUAL AS FOLLOWS:

1. "RB" BOX MOUNTING BRACKETS.
2. SCREW GUN MOUNTING BRACKETS.
3. "H" BOX MOUNTING BRACKETS.

E. OUTLET, SWITCH AND JUNCTION BOXES FOR VARIOUS USES SHALL BE AS MANUFACTURED BY CROUSE HINDS, FSR, HOFFMAN, HUBBELL, MONOSYSTEMS, O-Z/GEDNEY, PLASTI-BOND, OR AN APPROVED EQUAL.

CONDUCTORS

A. ALL CONDUCTORS FURNISHED AND INSTALLED SHALL COMPLY WITH THE REQUIREMENTS AND LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE (NESC), STANDARDS OF THE UNDERWRITER'S LABORATORIES (UL), NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

B. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, HAVING A CONDUCTIVITY OF NOT LESS THAN 98% OF THAT OF PURE COPPER, AND MEETING BEFORE STRANDING, THE REQUIREMENTS OF ASTM B-3, "STANDARD SPECIFICATIONS FOR SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES", LATEST EDITION.

C. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID COPPER THWN WITH AN INSULATING OUTER JACKET SUITABLE FOR CONDUCTOR TEMPERATURES OF 75°C, EXCEPT FOR NEC CLASS 1, 2, 3, CONDUCTORS WHICH MAYBE STRANDED IF TERMINATED AS REQUIRED HEREIN.

D. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL CONDUCTORS NO. 8 AND LARGER SHALL BE THWN/THHN, 600 VOLT, STRANDED WITH A THERMOPLASTIC INSULATING COMPOUND AND AN OUTER JACKET (THWN/THHN ONLY) SUITABLE FOR CONDUCTOR TEMPERATURES OF 75°C. OR 90° C., INCLUSIVE. STRANDED WIRE SHALL BE TERMINATED AS SPECIFIED HEREIN.

E. IN THE CEILING AREAS OF EQUIPMENT ROOMS WHERE THE TEMPERATURE MAY EXCEED 102°F. UNDER OPERATING CONDITIONS, HIGHER TEMPERATURE INSULATION SHALL BE USED ON CONDUCTORS. ACCEPTABLE TYPES ARE RHH, THHN, AND XHHW.

F. IF IT COMPLIES WITH THESE SPECIFICATIONS, THE FOLLOWING CONDUCTOR MANUFACTURERS WILL BE ACCEPTABLE: ALPHA WIRE COMPANY, AMERICAN BARE CONDUCTOR, BELDEN INC., ENCORE WIRE CORPORATION, GENERAL CABLE TECHNOLOGIES CORPORATION, SERVICE WIRE CO., SOUTHWIRE COMPANY, WESCO.

G. IF IT COMPLIES WITH THESE SPECIFICATIONS, CABLE LUGS AND TERMINATION FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING WILL BE ACCEPTABLE: BLACKBURN, BURNDY, IDEAL, ILSCO, KEARNEY, MAC, THOMAS & BETTS, SQUARE D, AMP.

H. NO SPLICES OR TAPS SHALL BE MADE IN ANY CONDUCTOR EXCEPT IN OUTLET BOXES, JUNCTION BOXES, SPLICE BOXES, OR OTHER DEVICES AND EQUIPMENT IN EXPOSED AND ACCESSIBLE LOCATIONS APPROVED FOR THE PURPOSE BY THE LATEST EDITION OF THE NEC.

I. ALL NO. 10 AWG AND SMALLER SOLID CONDUCTORS SHALL BE SPLICED WITH PRE-INSULATED SPRING CONNECTORS. ALL NO. 10 AWG AND SMALLER STRANDED CONDUCTORS FOR NEC CLASS 1, 2, 3 WIRING SHALL BE TERMINATED WITH AMP 'PIDG' UL LISTED PREMIUM GRADE INSULATED FORK CONNECTORS, OR APPROVED EQUAL, AND SHALL BE SPLICES IN A JUNCTION BOX WITH AMP "PLASTIC-GRIP" UL LISTED STANDARD GRADE INSULATED BUTT SPLICES, OR APPROVED EQUAL.

J. ALL NO. 8 AWG AND LARGER COPPER CONDUCTORS SHALL BE CONNECTED WITH HIGH CONDUCTIVITY, WROUGHT COPPER, COLOR KEYED COMPRESSION CONNECTORS. COMPRESSION CONNECTORS FOR ALL FEEDERS SHALL BE THOMAS & BETTS SERIES 54200, OR EQUAL, TWO-HOLE CONNECTORS.

K. ALL NO. 8 AWG AND LARGER COPPER CONDUCTORS WHICH ARE TO BE SPLICED OR TAPPED IN WIREWAYS, GUTTERS, OR JUNCTION BOXES SHALL BE SLICED OR TAPPED USING HYDRAULICALLY APPLIED, HIGH CONDUCTIVITY COMPRESSION CONNECTOR, T & B 54700, AND 3-M ELECTRICAL TAPE OR MANUFACTURED CONNECTOR COVERS APPROVED FOR THE PURPOSE.

GROUNDING

A. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NEC), AS SHOWN AND SPECIFIED, AND RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THE INTENDED FUNCTIONS.

WIRING DEVICES

A. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE TAMPER-RESISTANT 20 AMP 125V 5-20R DUPLEX UNLESS OTHERWISE INDICATED. WALL SWITCHES SHALL BE PREMIUM INDUSTRIAL SPECIFICATION GRADE, TOGGLE, QUIET TYPE, 20 AMP, 120/277V. WALL MOUNTED OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY, INFRARED AND ULTRAPHONIC. CEILING MOUNTED OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY, INFRARED AND ULTRAPHONIC.
B. THE COLOR OF COVER PLATES AND WIRING DEVICES SHALL BE AS SELECTED BY ARCHITECT UNLESS OTHERWISE INDICATED ON DRAWINGS. THE CONTRACTOR IS TO MATCH EXISTING DEVICE STYLE IF APPLICABLE.
C. PROVIDE WEATHERPROOF ENCLOSURE FOR RECEPTACLES MOUNTED OUTSIDE WITH WHILE IN USE COVER.

PANELBOARDS

A. PANELBOARDS SHALL BE GENERAL ELECTRIC TYPE AE OR AQ. OR EQUAL BY SIEMENS OR SQUARE D UNLESS OTHERWISE INDICATED.

DISCONNECT SWITCHES

A. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE GENERAL GENERAL ELECTRIC TYPE THD, HEAVY DUTY OR EQUAL BY SIEMENS OR SQUARE D UNLESS OTHERWISE INDICATED.

TRANSFORMERS

A. TRANSFORMERS SHALL BE GENERAL ELECTRIC TYPE QL RATED FOR 150°C TEMPERATURE RISE OR EQUAL BY ISOLATION PADS.

B. TRANSFORMERS WINDINGS AND TERMINATIONS SHALL BE COPPER.

LIGHTING

A. LUMINAIRE TYPES AND LAMPING SHALL BE AS LISTED ON THE DRAWINGS. REFER TO LIGHT FIXTURE SCHEDULE FOR ADDITIONAL NOTES AND REQUIREMENTS.

B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

C. NRTL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LABELED FOR INDICATED CLASS AND DIVISION OF HAZARD BY AN NRTL.

D. FM GLOBAL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LABELED FOR INDICATED CLASS AND DIVISION OF HAZARD BY FM GLOBAL.

E. UL COMPLIANCE: COMPLY WITH UL 1598. EMERGENCY EGRESS LIGHTING COMPONENTS SHALL COMPLY WITH UL 924.

F. LAMP BASE COMPLYING WITH ANSI C81.61 OR IEC 60061-1.

G. NOMINAL OPERATING VOLTAGE: 12 V DC, 24 V DC, 120 V AC, 240 V AC, 277 V AC, OR 480 V AC; PER DRAWINGS.

H. RECESSED LUMINAIRES: COMPLY WITH NEMA LE 4.

FIRE ALARM FUNCTION

A. THE ALARM OPERATING SEQUENCE FOR THIS SYSTEM IS AS FOLLOWS:

1. ACTIVATION OF ANY AUTOMATIC DETECTOR (HEAT, CEILING OR DUCT SMOKE), MANUAL STATION OR SPRINKLER WATER FLOW SWITCH WILL:
   a. ACTIVATE THE SYSTEM FIRE ALARM AUDIBLE SIGNAL AND ILLUMINATE THE ALARM LED AT THE CONTROL PANEL. THE FIRE ALARM ACKNOWLEDGE KEY WILL SILENCE THE LOCAL AUDIBLE SIGNAL.
   b. CAUSE THE ZONE OF ALARM TO BE IDENTIFIED WITH A CUSTOM ENGLISH LANGUAGE LABEL AT THE FIRE ALARM CONTROL PANEL.
   c. ACTIVATE THE AUDIBLE AND VISUAL ALARM SIGNALS SELECTIVELY IN THE ENTIRE FACILITY.
   d. SHUTDOWN THE AIR HANDLING UNIT(S) SERVING THE ZONE OF ALARM.
   e. ANY SUBSEQUENT ALARM FROM ANOTHER DEVICE LISTED ABOVE WILL REACTIVATE ANY SILENCED ALARM INDICATING APPLIANCES AND ACTIVATE THE RESPECTIVE CONTROL SEQUENCES DESCRIBED ABOVE.
   f. UPON RESET OF THE FIRE ALARM CONTROL PANEL, AIR HANDLING UNIT(S) WILL SEQUENTIALLY START UP AT TIME INTERVALS.

B. VALVE SUPERVISION

1. THE OPERATING SEQUENCE FOR STANDPIPE ZONE VALVE ANNUNCIATION FOR THIS SYSTEM IS AS FOLLOWS:
   a. ACTIVATE THE SYSTEM SUPERVISORY SERVICE AUDIBLE SIGNAL AND ILLUMINATE THE LED AT THE CONTROL PANEL.
   b. THE SUPERVISORY SERVICE ACKNOWLEDGE KEY WILL SILENCE THE LOCAL AUDIBLE SIGNAL.
   c. CAUSE THE ZONE OF ALARM TO BE IDENTIFIED WITH A CUSTOM ENGLISH LANGUAGE LABEL AT THE FIRE ALARM CONTROL PANEL.
   d. DIFFERENTIATION BETWEEN VALVE TAMPER AND OPENS AND OR GROUNDS ON THE INITIATING CIRCUIT WIRING IS PROVIDED BY THE LATTER BEING REPORTED AS TROUBLES.
   e. ACTIVATION OF A ZONE VALVE SUPERVISORY SWITCH WILL NOT PREVENT THE ALARM EVENTS LISTED ABOVE FROM OCCURRING.
   f. RESTORING THE VALVE TO THE NORMAL POSITION WILL CAUSE THE SUPERVISORY SERVICE AUDIBLE SIGNAL TO PULSE INDICATING THE RESTORATION TO NORMAL POSITION. THE SUPERVISORY SERVICE ACKNOWLEDGE KEY WILL SILENCE THE AUDIBLE SIGNAL.

C. DEVICE LOCATIONS

1. FINAL DEVICE LOCATIONS SHALL BE BY LICENSED FIRE ALARM ENGINEER.

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	10/22/25	100% PERMIT ISSUE

CFI Affiliates
CONSULTING ENGINEERS
10370 Richmond Ave., Ste 1450
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Texas Reg. No.: F-26511
Houston, Texas 77042
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CFIA Project No.: 425007.00

MICHAEL J. WEBB 89839 LICENSED PROFESSIONAL ENGINEER

10/22/2025

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ARCHITECTURE DESIGN
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ELECTRICAL SPECIFICATIONS

E0.02

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CITY STAMP APPROVAL



KEYED NOTES

(XX) INDICATES KEYED NOTE

1. ROUTE CONDUCTORS TO NEW BUILDING C PANEL FROM EXISTING WAREHOUSE ELECTRICAL ROOM. VERIFY EXACT RUN LENGTH. USE EXISTING UNDERGROUND CONUIT TO BLDG 'A' AS APPLICABLE. PROVIDE NEW OVERHEAD CONDUIT TO BUILDING 'C'.
2. UNDERGROUND CONDUIT TO TRAILER H-FRAME. FIELD COORDINATE CONDUIT ROUTING WITH OTHER TRADES.
3. PROPOSED GUTTER LOCATION.
4. UNDERGROUND CONDUITS TO TRAILER DISCONNECT.
5. PROVIDE 1 - 2"C FOR DATA CABLING. ROUTE CONDUIT FOR DATA TO MAIN IT ROOM. COORDINATE CONNECTION WITH TRAILER CONSULTANT.
6. EXISTING POLE AND FIXTURE TO BE RELOCATED TO HERE. EXTEND CIRCUITING AS REQUIRED TO REPOWER FIXTURE.

ELECTRICAL SITE PLAN 1
1" = 40'-0"

THE WOODLANDS TOWNSHIP

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CFIA Project No.: 425007.00

MICHAEL W. WEBB 89839 REGISTERED
10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
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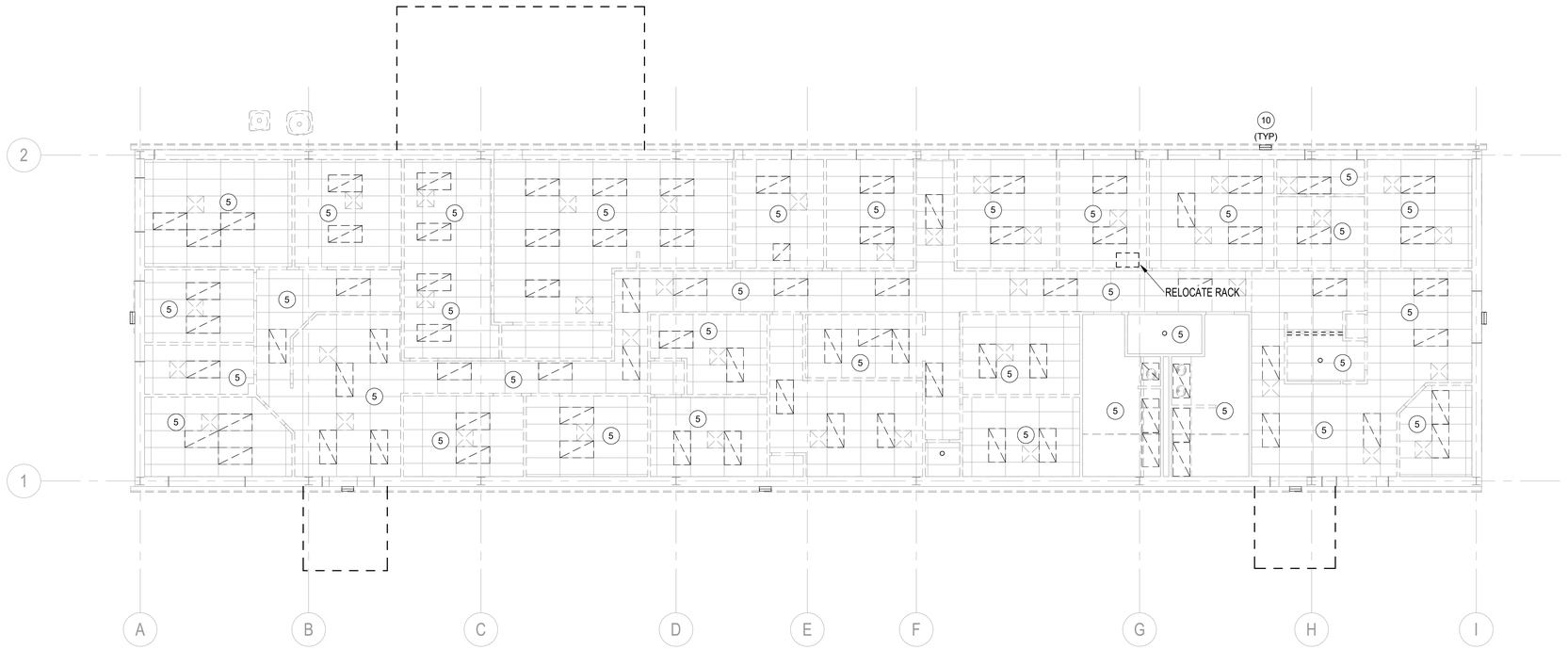
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KM	MW

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ELECTRICAL SITE PLAN

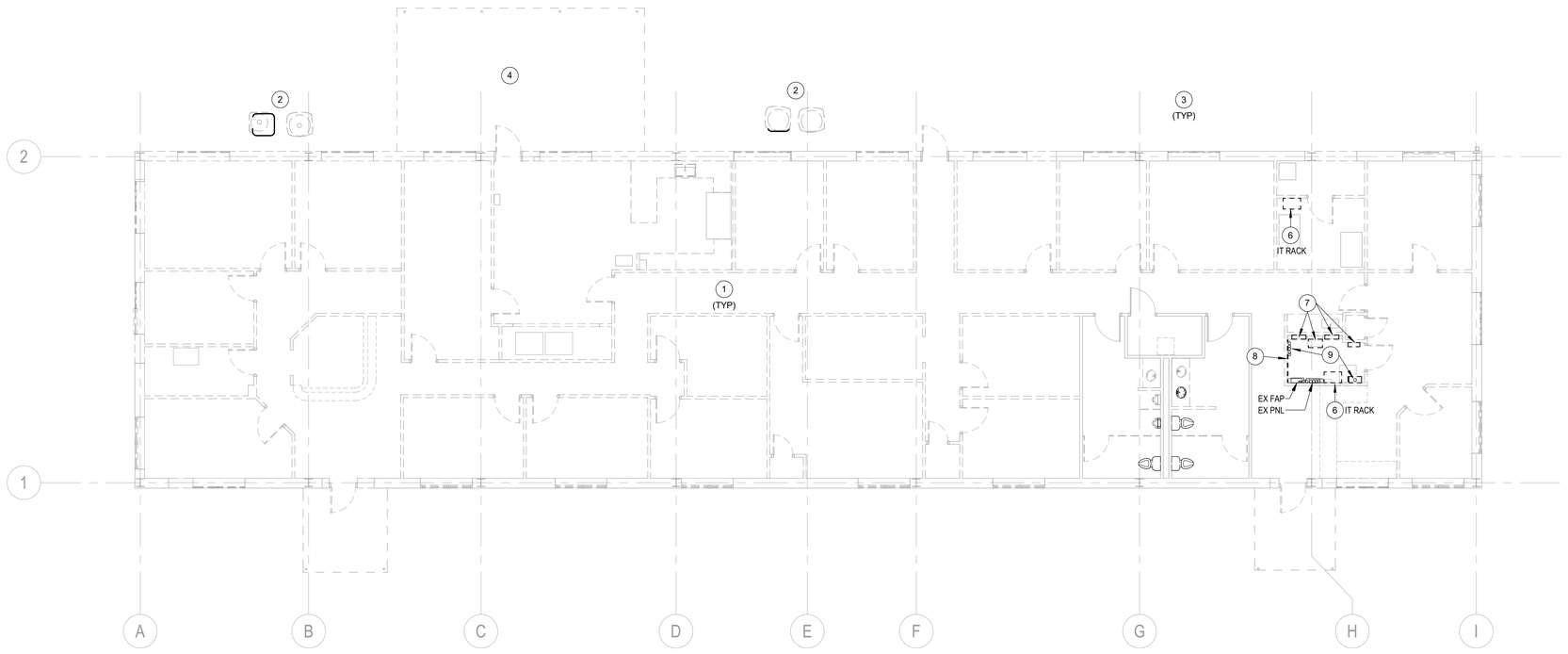
E1.01

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ELECTRICAL DEMO LIGHTING PLAN - BLDG A 2

1/8" = 1'-0"



ELECTRICAL DEMO POWER PLAN - BLDG A 1

1/8" = 1'-0"

CITY STAMP APPROVAL

(XX) INDICATES KEYED NOTE

KEYED NOTES

1 DEMO ALL POWER, DATA, FIRE ALARM, AND ANY ASSOCIATED CONDUIT AND WIRES BACK TO SOURCE PANELS.

2 DISCONNECT POWER TO EXISTING UNITS.

3 POWER AT UNITS IS EXISTING TO REMAIN.

4 DEMO ALL POWER AND ASSOCIATED ELECTRICAL DEVICES BACK TO SOURCE PANEL.

5 DEMO ALL LIGHT FIXTURES, SWITCHES, FIRE ALARM DEVICES AND ASSOCIATED ELECTRICAL DEVICES BACK TO SOURCE PANEL.

6 RELOCATE EXISTING I.T. RACK AND ASSOCIATED EQUIPMENT TO NEW 'IT' ROOM. COORDINATE REQUIREMENTS WITH OWNERS TECHNOLOGY REP.

7 DEMO PANELS AND EQUIPMENT AND ANY ASSOCIATED ELECTRICAL ON THIS WALL.

8 RELOCATE EXISTING LOW VOLTAGE EQUIPMENT TO NEW I.T. ROOM. COORDINATE REQUIREMENTS WITH OWNERS REP.

9 CONDUITS AND ASSOCIATED WIRING TO BE RELOCATED. SEE NEW WORK FOR NEW CONDUIT LOCATION.

10 DEMO EXISTING EXTERIOR LIGHT FIXTURE.

THE WOODLANDS TOWNSHIP

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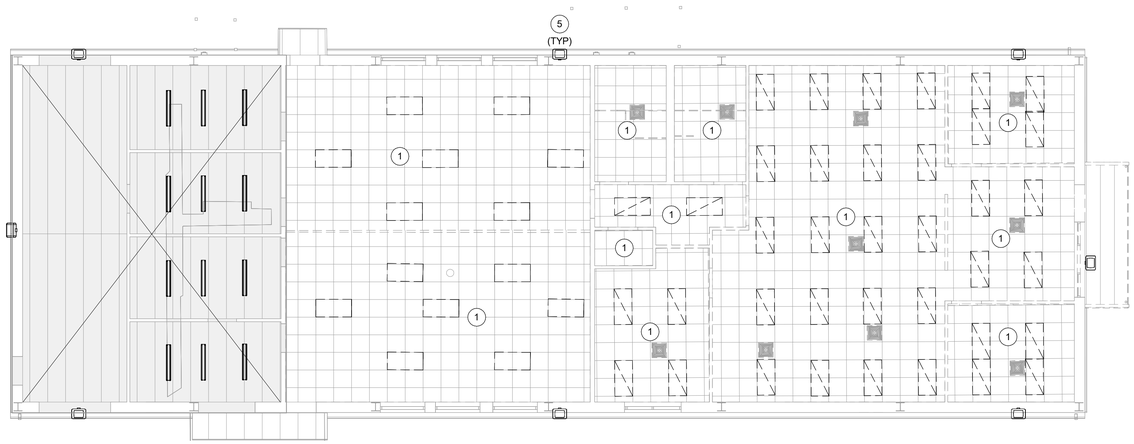
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ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG A

E1.02A

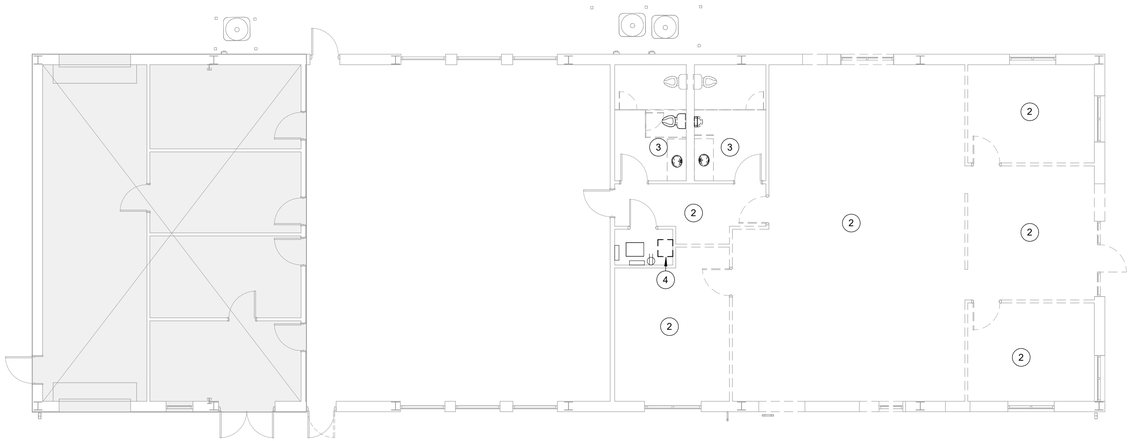
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ELECTRICAL DEMO LIGHTING PLAN - BLDG B

1/8" = 1'-0"

2



ELECTRICAL DEMO POWER PLAN - BLDG B

1/8" = 1'-0"

1

CITY STAMP APPROVAL

XX INDICATES KEYED NOTE

KEYED NOTES

1 DEMO ALL LIGHT FIXTURES, SWITCHES, FIRE ALARM DEVICES AND ASSOCIATED ELECTRICAL DEVICES BACK TO SOURCE PANEL.

2 DEMO ALL POWER AND ASSOCIATED ELECTRICAL DEVICES BACK TO SOURCE PANEL.

3 DEMO EXISTING LIGHT SWITCHES AND ASSOCIATED SWITCHING WITHIN THIS ROOM.

4 DEMO EXISTING IT RACK AND ASSOCIATED EQUIPMENT, CABLING, ETC. TO BE RELOCATED IN NEW WORK.

5 DEMO EXISTING EXTERIOR LIGHT FIXTURE.

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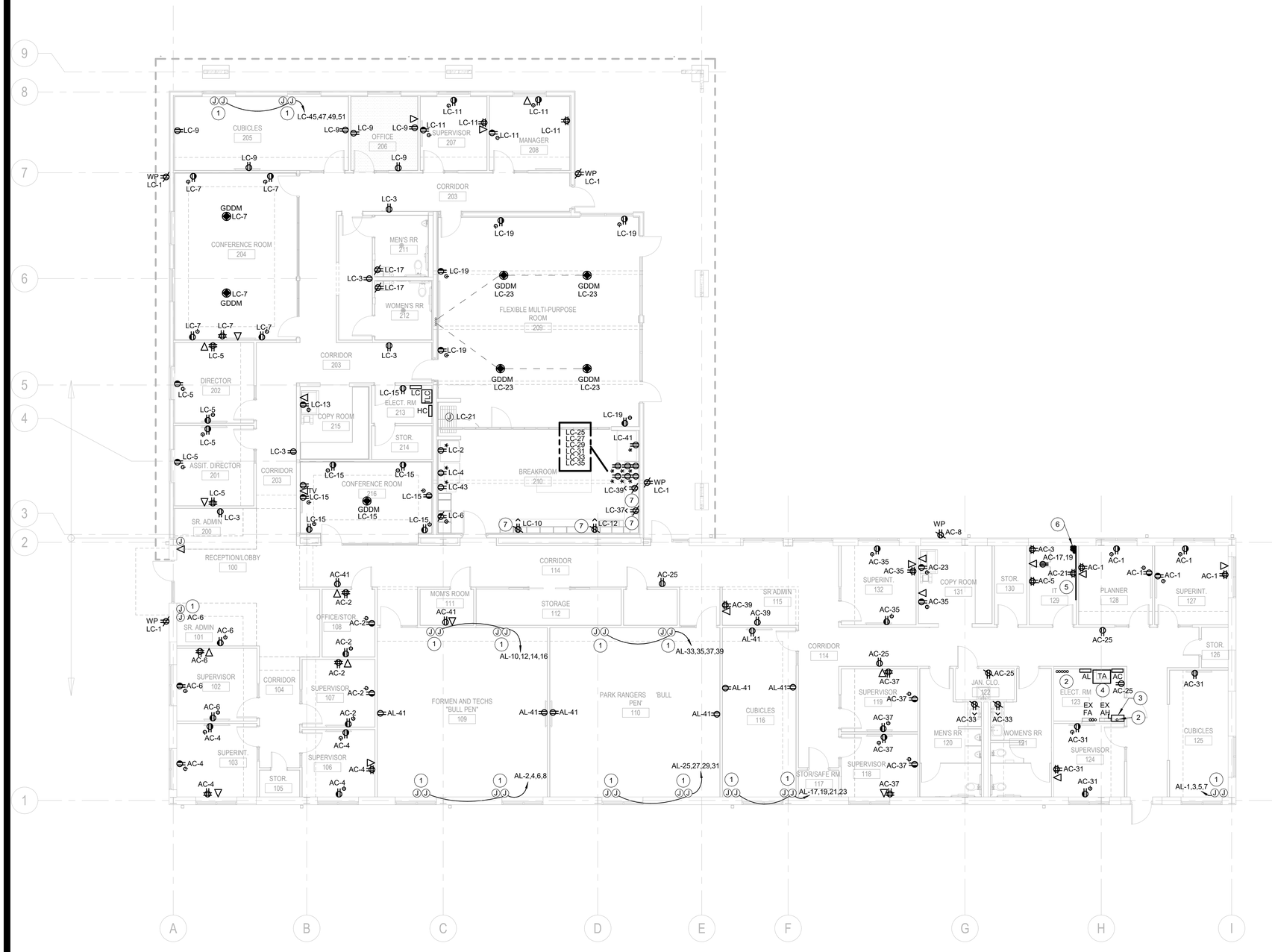
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ELECTRICAL DEMO POWER AND LIGHTING PLAN - BLDG B

E1.02B

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ELECTRICAL POWER PLAN - BLDG A&C
1/8" = 1'-0"

1

CITY STAMP APPROVAL

(XX) INDICATES KEYED NOTE

KEYED NOTES

1 PROVIDE POWER AND DATA FOR CUBICLE CONNECTION. ONE NON COMPUTER CIRCUIT TO BE FULLY CONTROLLED.
2 SAW CUT SLAB AND RELOCATE CONDUIT STUBS TO HERE.
3 RELOCATE DISCONNECT TO HERE.
4 RELOCATE XFMR AND PANELS TO HERE.
5 PROVIDE 4' X 8' X 3/4" FIRE TREATED PLYWOOD FOR RELOCATION OF TELEPHONE FRONT END EQUIPMENT.
6 EXTEND CONDUITS OVERHEAD FROM ELECTRICAL TO IT ROOM.
7 RECEPTACLE TO BE HORIZONTAL.

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MATTHEW J. WADE 89839 LICENSED PROFESSIONAL ENGINEER
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THE WOODLANDS, TX 77381

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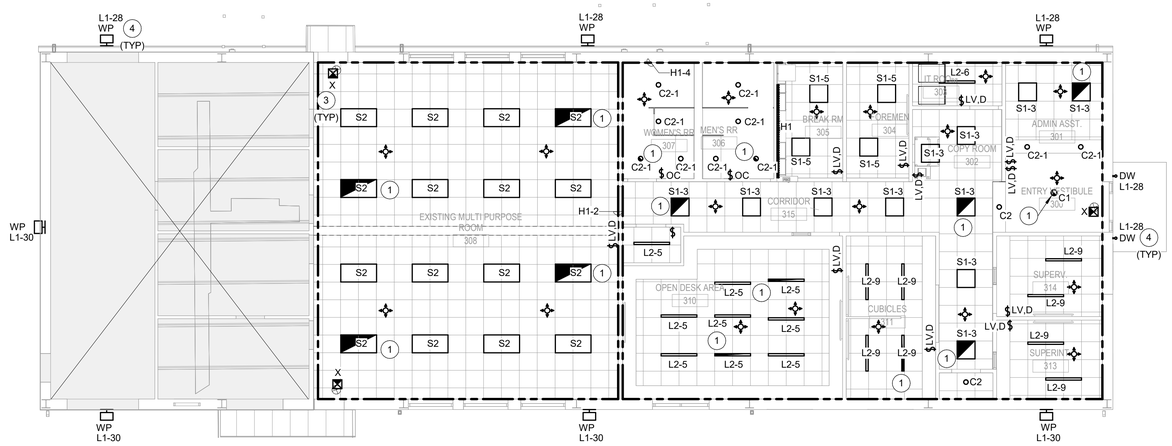
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Project Phase:
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ELECTRICAL POWER PLAN - BLDG A&C

E2.01AC

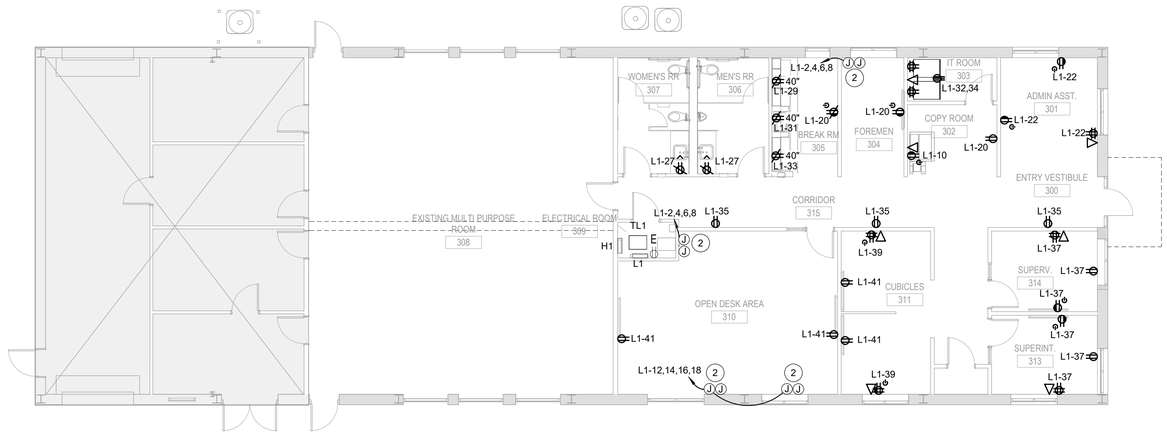
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ELECTRICAL LIGHTING PLAN - BLDG B

1/8" = 1'-0"

2



ELECTRICAL POWER PLAN - BLDG B

1/8" = 1'-0"

1

CITY STAMP APPROVAL

XX INDICATES KEYED NOTE

KEYED NOTES

1. FIXTURE INDICATED TO BE PROVIDED WITH 90-MINUTE EMRGENCY BATTERY BAKCUP. TYPICAL FOR ALL FIXTURES SHOWN AS HATCHED OR OTHERWISE NOTED FOR EMERGENCY ON THIS DRAWING.
2. PROVIDE POWER AND DATA FOR CUBICLE CONNECTION. ONE NON COMPUTER CIRCUIT TO BE FULLY CONTROLLED.
3. EXTREND UNSWITCHED HOT LEG TO POWER EXIT SIGN.
4. WIRE EXTERIOR LIGHTS THRU TIME CLOCK.

THE WOODLANDS TOWNSHIP

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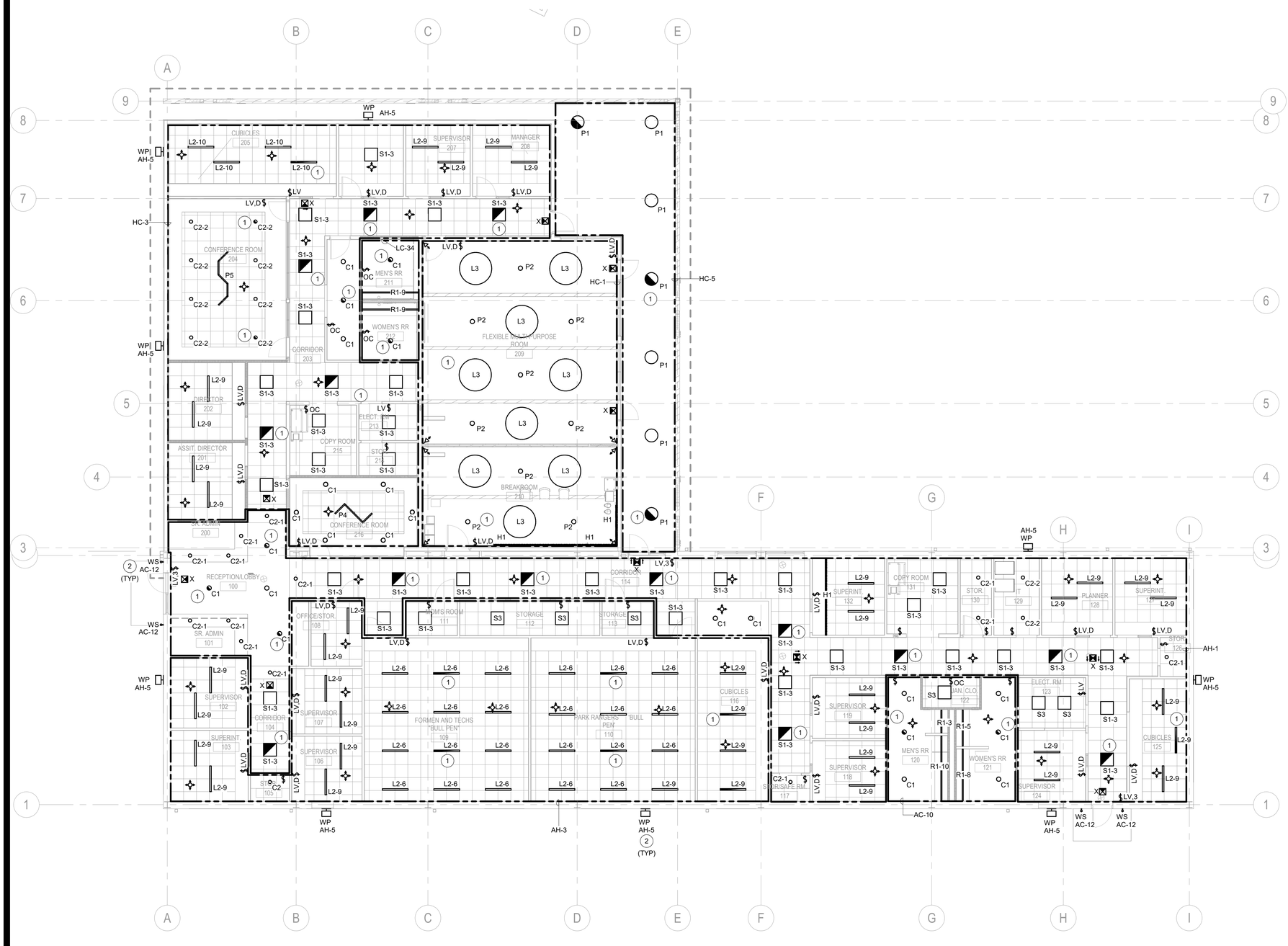
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ELECTRICAL POWER AND LIGHTING PLAN - BLDG B

E2.01B

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ELECTRICAL LIGHTING PLAN - BLDG A&C

1/8" = 1'-0"

1

CITY STAMP APPROVAL

(XX) INDICATES KEYED NOTE

KEYED NOTES

1 FIXTURE INDICATED TO BE PROVIDED WITH 90-MINUTE EMRGENCY BATTERY BAKCUP. TYPICAL FOR ALL FIXTURES SHOWN AS HATCHED OR OTHERWISE NOTED FOR EMERGENCY ON THIS DRAWING.

2 WIRE EXTERIOR LIGHTS THRU TIME CLOCK.

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ELECTRICAL LIGHTING PLAN - BLDG A&C

E3.01AC

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ELECTRICAL EQUIPMENT PLAN - BLDG A&C

1/8" = 1'-0"

1

CITY STAMP APPROVAL

XX INDICATES KEYED NOTE

KEYED NOTES

1 WIRE AND CONTROL EXHAUST FAN WITH RESTROOM LIGHTS.

2 WIRE RECONNECT MECHANICAL UNIT BACK TO ELECTRICAL PANEL AFTER SOURCE PANEL RELOCATION.

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ELECTRICAL EQUIPMENT PLAN - BLDG A&C

E4.01AC

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GENERAL NOTES

1. REFER TO ELECTRICAL PLANS FOR LOCATION OF ELECTRICAL EQUIPMENT.

SHORT CIRCUIT NOTES

1. CALCULATIONS WERE DONE USING THE POINT TO POINT METHOD, AND USING AN INFINITE SERVICE TRANSFORMER PRIMARY WITH A MAXIMUM TRANSFORMER SECONDARY S.C.A. AVAILABLE OF XX,XXXA.
2. PROVIDE A PERMANENTLY AFFIXED LABEL TO NEW DEVICE DISCONNECTS AND PANELBOARDS WITH THE FAULT CURRENT SHOWN ON THE LABEL. ALSO SHOW THE DATE OF CALCULATION. THE LABEL SHALL BE 2"X3" WITH BLUE LETTERING ON A CONTRASTING BACKGROUND.

(XX) INDICATES KEYED NOTE

KEYED NOTES

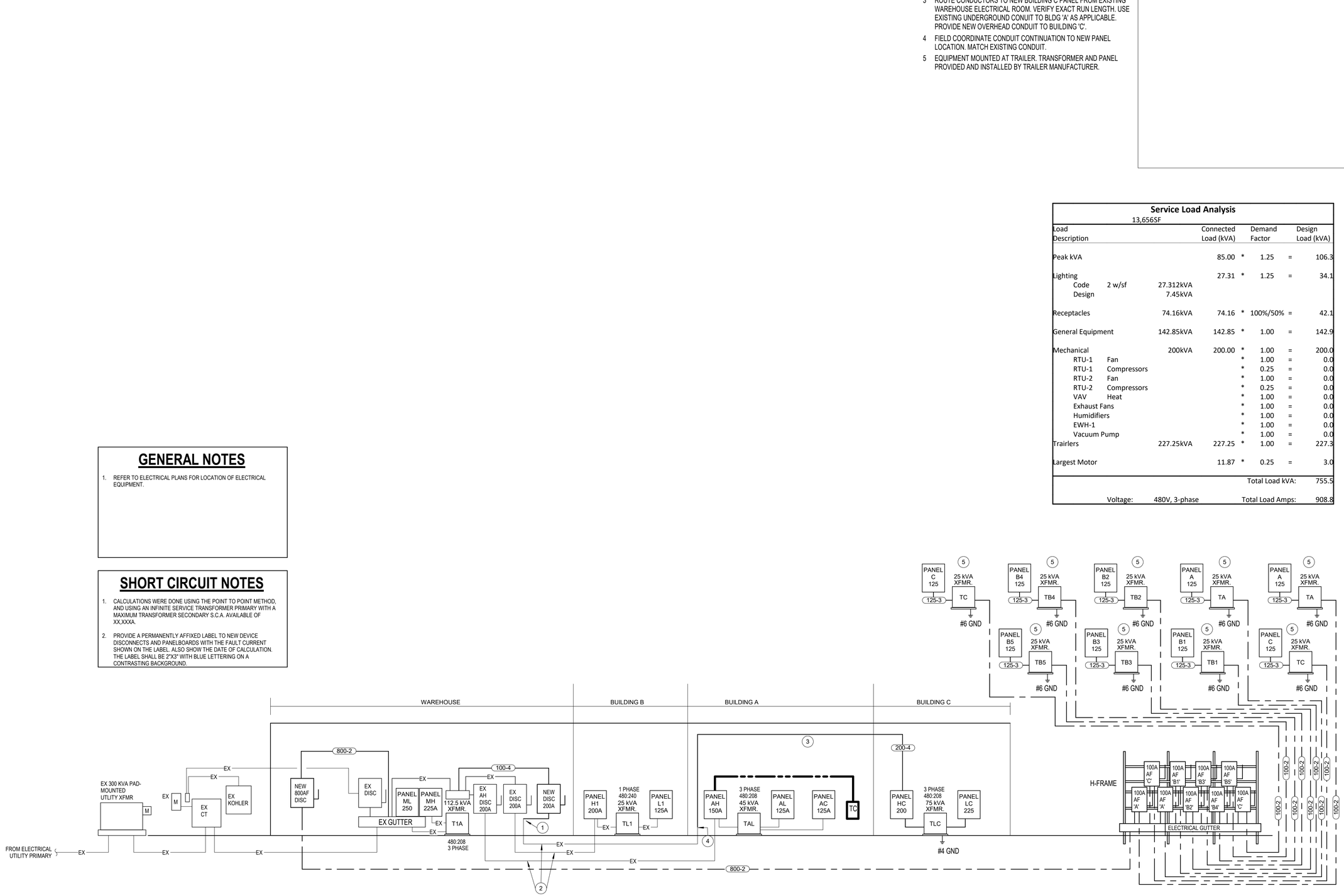
1. EXTEND EXISTING CONDUIT TO NEW DISCONNECT.
2. EXISTING CONDUIT ROUTED BETWEEN BUILDINGS.
3. ROUTE CONDUCTORS TO NEW BUILDING C PANEL FROM EXISTING WAREHOUSE ELECTRICAL ROOM. VERIFY EXACT RUN LENGTH. USE EXISTING UNDERGROUND CONUIT TO BLDG 'A' AS APPLICABLE. PROVIDE NEW OVERHEAD CONDUIT TO BUILDING 'C'.
4. FIELD COORDINATE CONDUIT CONTINUATION TO NEW PANEL LOCATION. MATCH EXISTING CONDUIT.
5. EQUIPMENT MOUNTED AT TRAILER. TRANSFORMER AND PANEL PROVIDED AND INSTALLED BY TRAILER MANUFACTURER.

CITY STAMP APPROVAL

Service Load Analysis

13,656SF

Load Description			Connected Load (kVA)		Demand Factor		Design Load (kVA)
Peak kVA			85.00	*	1.25	=	106.3
Lighting			27.31	*	1.25	=	34.1
Code	2 w/sf	27.312kVA					
Design		7.45kVA					
Receptacles		74.16kVA	74.16	*	100%/50%	=	42.1
General Equipment		142.85kVA	142.85	*	1.00	=	142.9
Mechanical		200kVA	200.00	*	1.00	=	200.0
RTU-1	Fan			*	1.00	=	0.0
RTU-1	Compressors			*	0.25	=	0.0
RTU-2	Fan			*	1.00	=	0.0
RTU-2	Compressors			*	0.25	=	0.0
VAV	Heat			*	1.00	=	0.0
Exhaust Fans				*	1.00	=	0.0
Humidifiers				*	1.00	=	0.0
EWH-1				*	1.00	=	0.0
Vacuum Pump				*	1.00	=	0.0
Trairlers		227.25kVA	227.25	*	1.00	=	227.3
Largest Motor			11.87	*	0.25	=	3.0
					Total Load kVA:		755.5
Voltage:	480V, 3-phase				Total Load Amps:		908.8



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

1

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New Area	FEC/UC	1
Old Area		1
Tenant Space		1

13656

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ELECTRICAL RISER DIAGRAM

E7.01

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PANEL: AL

LOCATION: ELECT. RM 123
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: YES

VOLTS: 208Y/120V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING: 10000
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 125

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1		CUBICLES - 125	20 A	1	0.54	1.44					1	20 A	CUBICLES - 109		2
3		CUBICLES -125	20 A	1			0.54	1.44			1	20 A	CUBICLES - 109		4
5		CUBICLES -125	20 A	1					0.54	1.44	1	20 A	CUBICLES - 109		6
7		CUBICLES -125	20 A	1	0.54	1.44					1	20 A	CUBICLES - 109		8
9	--	A/C	30 A	2			2	1.44			1	20 A	CUBICLES - 109		10
11	--	--	--	--					2	1.44	1	20 A	CUBICLES - 109		12
13	--	A/C	30 A	2	2	1.44					1	20 A	CUBICLES - 109		14
15	--	--	--	--			2	1.44			1	20 A	CUBICLES - 109		16
17		CUBICLES - 116	20 A	1					1.08	0.2	1	20 A	EXHAUST FANS	--	18
19		CUBICLES - 116	20 A	1	1.08	1.69					1	20 A	FCU-1		20
21		CUBICLES - 116	20 A	1			1.08	1.24			1	20 A	FCU-2		22
23		CUBICLES - 116	20 A	1					1.08						24
25		CUBICLES - 110	20 A	1	1.44										26
27		CUBICLES - 110	20 A	1			1.44	0.5			1	20 A	FIRE ALARM	--	28
29		CUBICLES - 110	20 A	1					1.44						30
31		CUBICLES - 110	20 A	1	1.44										32
33		CUBICLES - 110	20 A	1			1.44								34
35		CUBICLES - 110	20 A	1					1.44						36
37		CUBICLES - 110	20 A	1	1.44										38
39		CUBICLES - 110	20 A	1			1.44								40
41		RECEPTACLE	20 A	1					1.26						42
				FEED THROUGH LOAD:	0 VA		0 VA		0 VA						
				TOTAL LOAD:	14492 VA		15996 VA		11920 VA						
				TOTAL AMPS:	124.06 A		137 A		99 A						

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1260 VA	100.00%	1260 VA		
Motor	2928 VA	114.45%	3351 VA	**Total Conn. Load:**	42408 VA
Power	29520 VA	100.00%	29520 VA	**Total Est. Demand:**	42831 VA
Spare	8700 VA	100.00%	8700 VA	**Total Est. Demand Current:**	119 A

Notes:

PANEL: AC

LOCATION: ELECT. RM 123
SUPPLY FROM: TA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: YES

VOLTS: 208Y/120V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 125

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1		RCPT - PLAN / SUPER	20 A	1	1.44	1.44					1	20 A	RECEPTACLE		2
3		QUAD I.T.	20 A	1			0.36	1.44			1	20 A	RECEPTACLE		4
5		QUAD I.T.	20 A	1					0.36	1.26	1	20 A	RECEPTACLE		6
7						0.18					1	20 A	GFCI RCPT		8
9	--	A/C	30 A	2			2	0.15			1	20 A	LIGHTING		10
11	--	--	--	--					2	0.07	1	20 A	LIGHTING		12
13	--	A/C	30 A	2	2	2.39					2	35 A	ACCU-2	2#8, 1#10G	14
15	--	--	--	--			2	2.39			--	--	--	--	16
17		SERVER - I.T.	20 A	2					0.75						18
19	--	--	--	--	0.75										20
21		QUAD I.T.	20 A	1			0.36								22
23		COPIER	20 A	1					1						24
25		RECEPTACLE	20 A	1	0.9	1.5					2	20 A	PUMP	--	26
27	--	GAS PUMP	20 A	2			1.5	1.5			--	--	--	--	28
29	--	--	--	--					1.5						30
31		RCPT - SUPER 124/CUB 125	20 A	1	0.9										32
33		RCPT - RESTROOM	20 A	1			0.36								34
35		RCPT - SUPER / COPY RM	20 A	1					0.9						36
37		RECEPTACLE - SUPER...	20 A	1	1.44										38
39		RECEPTACLE	20 A	1			0.54								40
41		RECEPTACLE	20 A	1					0.36						42
				FEED THROUGH LOAD:	0 VA		0 VA		0 VA						
				TOTAL LOAD:	12942 VA		12599 VA		8198 VA						
				TOTAL AMPS:	113.49 A		111 A		68 A						

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	13380 VA	87.37%	11690 VA		
Lighting	215 VA	125.00%	269 VA	**Total Conn. Load:**	33739 VA
Motor	4784 VA	125.00%	5980 VA	**Total Est. Demand:**	33299 VA
Other	1000 VA	100.00%	1000 VA	**Total Est. Demand Current:**	92 A
Power	360 VA	100.00%	360 VA		
Spare	14000 VA	100.00%	14000 VA		

Notes:

PANEL: AH

LOCATION: ELECT. RM 123
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: YES

VOLTS: 480Y/277V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 150 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1		LIGHTING	20 A	1	2.14	0					1	20 A	SPARE	--	2
3		LIGHTING	20 A	1			1.47	0			1	20 A	SPARE	--	4
5		EXTERIOR LIGHTING	20 A	1					0.44	0	1	20 A	SPARE	--	6
7						0					1	20 A	SPARE	--	8
9								0			1	20 A	SPARE	--	10
11										0	1	20 A	SPARE	--	12
13	--	POLE LIGHTS	20 A	1	2	1					1	20 A	EXTERIOR LIGHTS	--	14
15	--	SPARE	20 A	1			0	12.94			3	60 A	TA	3#4, 1#8G	16
17	--	SPARE	20 A	1					0	12.6	--	--	--	--	18
19	--	A/C	30 A	3	5	8.2					--	--	--	--	20
21	--	--	--	--			5	5			3	30 A	A/C	--	22
23	--	--	--	--					5	5	--	--	--	--	24
25	--	A/C	30 A	3	5	5					--	--	--	--	26
27	--	--	--	--			5	5			3	30 A	A/C	--	28
29	--	--	--	--					5	5	--	--	--	--	30
31						5					--	--	--	--	32
33															34
35															36
37															38
39															40
41															42
				FEED THROUGH LOAD:	0 VA		0 VA		0 VA						
				TOTAL LOAD:	33336 VA		34411 VA		33040 VA						
				TOTAL AMPS:	120.51 A		124 A		119 A						

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	13380 VA	87.37%	11690 VA		
Lighting	4233 VA	125.00%	5291 VA	**Total Conn. Load:**	100787 VA
Motor	4784 VA	125.00%	5980 VA	**Total Est. Demand:**	101351 VA
Other	1030 VA	100.00%	1030 VA	**Total Est. Demand Current:**	122 A
Power	360 VA	100.00%	360 VA		
Spare	77000 VA	100.00%	77000 VA		

Notes:

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	10/22/25	100% PERMIT ISSUE

CFI Affiliates
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Texas Reg. No.: F-26511 CFIA Project No.: 425007.00

Michael J. Walker 89839 REGISTERED
10/22/2025

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DALLAS
5741 Legacy Drive, Suite 320
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/22/2025 10:32:08 AM

Drawn By:	Checked By:
KM	MW

Project Phase: PERMIT ISSUE

ELECTRICAL SCHEDULES

E8.01

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PANEL: LC

LOCATION: ELECT. RM 213
SUPPLY FROM: TLC
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: YES

VOLTS: 208Y/120V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1		RECEPTACLE	20 A	1	0.72	1.5					1	20 A	VENDING MACHINE		2
3		RECEPTACLE	20 A	1			0.9	1.5			1	20 A	VENDING MACHINE		4
5		RECEPTACLE	20 A	1					1.44	0.18	1	20 A	COFFEE POT		6
7		RECEPTACLE	20 A	1	1.8										8
9		RECEPTACLE	20 A	1			1.08	0.18			1	20 A	RECEPTACLE		10
11		RECEPTACLE	20 A	1					1.44	0.18	1	20 A	RECEPTACLE		12
13		COPIER	20 A	1	1	1.87					2	30 A	ACCU-5	2#10, 1#10G	14
15		RECEPTACLE	20 A	1			1.62	1.87			--	--	--	--	16
17		RECEPTACLE	20 A	1					0.36	1.87	2	30 A	ACCU-4	2#10, 1#10G	18
19		RECEPTACLE	20 A	1	0.9	1.87					--	--	--	--	20
21		DIVIDER DOOR	20 A	1			0.8	1.87			2	30 A	ACCU-3	2#10, 1#10G	22
23		RECEPTACLE	20 A	1					1.44	1.87	--	--	--	--	24
25		QUARTZ OVEN	20 A	1	1.5	1.24					1	20 A	FCU-3		26
27		QUARTZ OVEN	20 A	1			1.5	1.24			1	20 A	FCU-4		28
29		QUARTZ OVEN	20 A	1					1.5	1.24	1	20 A	FCU-5		30
31		MICROWAVE	20 A	1	1.5	1.69					1	20 A	FCU-6		32
33		MICROWAVE	20 A	1			1.5	0.05			1	20 A	LIGHTING		34
35		MICROWAVE	20 A	1					1.5						36
37		COFFEE MAKER	20 A	1	1.5										38
39		COFFEE MAKER	20 A	1			1.5								40
41		REFRIGERATOR	20 A	1					0.8						42
43		RECEPTACLE	20 A	1	1.5										44
45		CUBICLES - 205	20 A	1			0.72								46
47		CUBICLES - 205	20 A	1					0.72						48
49		CUBICLES - 205	20 A	1	0.72										50
51		CUBICLES - 205	20 A	1			0.72								52
53															54

FEED THROUGH LOAD: 0 VA | 0 VA | 0 VA
TOTAL LOAD: 19312 VA | 17049 VA | 14540 VA
TOTAL AMPS: 164.15 A | 145 A | 121 A

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	12240 VA	90.85%	11120 VA		
Lighting	49 VA	125.00%	62 VA	**Total Conn. Load:**	50901 VA
HVAC	11232 VA	100.00%	11232 VA	**Total Est. Demand:**	44162 VA
Kitchen	17300 VA	65.00%	11245 VA	**Total Est. Demand Current:**	123 A
Motor	5400 VA	107.83%	5823 VA		
Other	4680 VA	100.00%	4680 VA		

Notes:

EX. PANEL: L1

LOCATION: ELECTRICAL ROOM 309
SUPPLY FROM: TL1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: NO

VOLTS: 120/240V 1Ø
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 125 A
MCB RATING: 125 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1	--	SPARE	20 A	1	0	0.72					1	20 A	CUBICLES		2
3	--	SPARE	20 A	1			0	0.72			1	20 A	CUBICLES		4
5	--	SPARE	20 A	1	0	0.72					1	20 A	CUBICLES		6
7	--	WATER HEATER	20 A	1			1.5	0.72			1	20 A	CUBICLES		8
9	--	SPARE	20 A	1	0	1					1	20 A	COPIER		10
11	--	SPARE	20 A	1			0	1.44			1	20 A	CUBICLES		12
13	--	SPARE	30 A	2	0	1.44					1	20 A	CUBICLES		14
15	--	--	--	--			0	1.44			1	20 A	CUBICLES		16
17	--	FIRE ALARM	20 A	1	0.3	1.44					1	20 A	CUBICLES		18
19	--	BATTERY CHARGER	20 A	1			0.5	0.54			1	20 A	RCPT - BREAK RM / FORE/...		20
21	--	BATTERY CHARGER	20 A	1	0.5	0.72					1	20 A	RCPT - ADMIN		22
23	--	SPARE	20 A	1			0	0.36			1	20 A	RCPT - IT ROOM		24
25	--	UPS	30 A	1	0.3	0.36					1	20 A	RCPT - IT ROOM		26
27		RECEPTACLE - RESTROOM	20 A	1			0.36	0.18			1	20 A	EXTERIOR LIGHTING		28
29		RCPT - BREAKROOM	20 A	1	1.5	0.2					1	20 A	EXTERIOR LIGHTING		30
31		RCPT - BREAKROOM	20 A	1			1.5	0.09			2	20 A	SERVER		32
33		RCPT - BREAKROOM	20 A	1	1.5	0.09					--	--	--	--	34
35		RCPT - HALLWAY	20 A	1			0.54								36
37		RCPT - SUPERV / SUPERINT	20 A	1	1.44										38
39		CUBICLES 310	20 A	1			0.72								40
41		RCPT - CUBICLES/OPEN AREA	20 A	1	0.72										42

FEED THROUGH LOAD: 0 VA | 0 VA | 0 VA
TOTAL LOAD: 12946 VA | 10609 VA | 0 VA
TOTAL AMPS: 107.88 A | 88 A | 0 A

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5940 VA	100.00%	5940 VA		
Lighting	375 VA	125.00%	469 VA	**Total Conn. Load:**	23555 VA
Other	14140 VA	100.00%	14140 VA	**Total Est. Demand:**	23649 VA
Spare	3100 VA	100.00%	3100 VA	**Total Est. Demand Current:**	99 A

Notes:

PANEL: HC

LOCATION: ELECT. RM 213
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: YES

VOLTS: 480Y/277V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1		LIGHTING	20 A	1	0.52										2
3		LIGHTING	20 A	1			1.94								4
5		LIGHTING	20 A	1					0.11						6
7		IWH-1	20 A	1	4.1										8
9	SEE ONELINE	TLC	125 A	3					19.31						10
11	--	--	--	--	14.54										12
13	--	--	--	--					17.05						14
15		ACCU-6	15 A	3			2.83								16
17	--	--	--	--					2.83						18
19	--	--	--	--	2.83										20
21		ACCU-1	15 A	3			2.83								22
23	--	--	--	--					2.83						24
25	--	--	--	--	2.83										26
27		IWH-1	20 A	1			4.1								28
29															30
31															32
33															34
35															36
37															38
39															40
41															42

FEED THROUGH LOAD: 0 VA | 0 VA | 0 VA
TOTAL LOAD: 24813 VA | 31002 VA | 22805 VA
TOTAL AMPS: 90.7 A | 113 A | 82 A

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	12240 VA	90.85%	11120 VA		
Lighting	2591 VA	125.00%	3238 VA	**Total Conn. Load:**	78610 VA
HVAC	19708 VA	100.00%	19708 VA	**Total Est. Demand:**	74201 VA
Kitchen	17300 VA	65.00%	11245 VA	**Total Est. Demand Current:**	89 A
Motor	13876 VA	115.27%	15995 VA		
Other	12895 VA	100.00%	12895 VA		

Notes:

EX. PANEL: H1

LOCATION: ELECTRICAL ROOM 309
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FEED-THRU LUGS: NO

VOLTS: 480Y/277V WYE 3Ø-4W
NEUTRAL BUS: YES
GROUND BUS: YES

CALC. FCA:
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 200 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Wire Size	CKT
1	--	STORAGE LIGHTS	20 A	1	0.5	0.68					1	20 A	LIGHTING		2
3	--	EXIT LIGHTS	20 A	1			0.5	1.31			1	20 A	LIGHTING		4
5	--	OUTSIDE WALL PACKS	20 A	1					0.5						6
7	--	CURICAL AREA	20 A	1	0.5	12.95					2	60 A	TL1	EXISTING	8
9								10.61			--	--	--	--	10
11															12
13	--	CONDENSER #1	15 A	3	1.6	1.6					3	15 A	CONDENSER #2	--	14
15	--	--	--	--			1.6	1.6			--	--	--	--	16
17	--	--	--	--					1.6	1.6	--	--	--	--	18
19	--	AHU #1	25 A	3	4.7	4.7					3	25 A	AHU #2	--	20
21	--	--	--	--			4.7	4.7			--	--	--	--	22
23	--	--	--	--					4.7	4.7	--	--	--	--	24
25	--	AHU #3	20 A	3	3.6	1.6					3	15 A	CONDENSER #3	--	26
27	--	--	--	--			3.6	1.6			--	--	--	--	28
29	--	--	--	--					3.6	1.6	--	--	--	--	30

FEED THROUGH LOAD: 0 VA | 0 VA | 0 VA
TOTAL LOAD: 32428 VA | 30215 VA | 18300 VA
TOTAL AMPS: 123.7 A | 116 A | 66 A

Legend:
ALL BRANCH CIRCUITS ARE 2#12, #12G THWN-2 CU, 1/2" MINIMUM UNLESS OTHERWISE NOTED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5940 VA	100.00%	5940 VA		
Lighting	2348 VA	125.00%	2935 VA	**Total Conn. Load:**	80943 VA
Other	14155 VA	100.00%	14155 VA	**Total Est. Demand:**	81530 VA
Spare	58500 VA	100.00%	58500 VA	**Total Est. Demand Current:**	98 A

Notes:

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

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CFIA Project No.: 425007.00

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PROFESSIONAL
ENGINEER
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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted: 10/22/2025 10:32:09 AM

Drawn By:	Checked By:
KM	MW

Project Phase: PERMIT ISSUE

ELECTRICAL SCHEDULES

E8.02

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LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS	MOUNTING	LOCATION / NOTES
C1	CSL	ED5L-NIC-35-90-50-16-S ED5-R-F-ST-SW	UNV	16W 3500K	RECESSED	
C2-1	CSL	ED3L-NIC-35-90-50-12-S2 ED3-R-F-ST-SW	UNV	12W 3500K	RECESSED	
C2-2	CSL	ED3L-NIC-35-90-50-21-S ED3-R-F-ST-SW	UNV	21W 3500K	RECESSED	
H1	TSLC	ICBI-9645S-35K-LENGTH-20-24 8367 FS-ICBI-9645S-L PS-TSLC-UNV-24V-30WDHV2	UNV	2.4W/ft 3500K	RECESSED	Confirm length & configuration
L2-5	NULITE	RG4-D-FRF-05-L35-UNV-D-11-WH-4	UNV	16W 3500K	RECESSED	
L2-6	NULITE	RG4-D-FRF-06-L35-UNV-D-11-WH-4	UNV	18W 3500K	RECESSED	
L2-9	NULITE	RG4-D-FRF-09-L35-UNV-D-11-WH-4	UNV	28W 3500K	RECESSED	
L2-10	NULITE	RG4-D-FRF-10-L35-UNV-D-11-WH-4	UNV	32W 3500K	RECESSED	
L3	ALW	MR1.5A-D5-SS-LOW/80/35K-V01-LENS-LOW/80/35K-LENS-N-FELT-N-FINISH-UNV	UNV	184W 3500K	SUSPENDED	
P1	LIGMAN	UFOR-95012-50w-W35-01-120/277v	UNV	50W 3500K	PENDANT	Slope ceiling, Confirm mounting, Confirm req. stem length
P2	CAMMAN	P500-24-LN-35K-CLV-MV-WM-FINISH	UNV	40W 3500K	PENDANT	
P4	ALW	MR1.5-CQ24/3-SS-LOW/80/3500-V00-LENS-LOW/80/3500-LENS-SW-UNV	UNV	102W 3500K	PENDANT	
P5	ALW	MR1.5-CQ24/4-SS-LOW/80/3500-V00-LENS-LOW/80/3500-LENS-SW-UNV	UNV	136W 3500K	PENDANT	
R1-3	NEORAY	S122DRP-S485D835-CEILING-3F0-1-UDD-F-W	UNV	14W 3500K	RECESSED	Confirm grid stype, Confirm final length in field
R1-5	NEORAY	S122DRP-S485D835-CEILING-5F0-1-UDD-F-W	UNV	29W 3500K	RECESSED	Confirm grid style
R1-8	NEORAY	S122DRP-S485D835-CEILING-8F0-1-UDD-F-W	UNV	38W 3500K	RECESSED	Confirm grid style
R1-9	NEORAY	S122DRP-S485D835-CEILING-9F0-1-UDD-F-W	UNV	27W 3500K	RECESSED	Confirm grid style
R1-10	NEORAY	S122DRP-S485D835-CEILING-10F0-1-UDD-F-W	UNV	48W 3500K	RECESSED	Confirm grid style
S1-3	ARON	EDGET1-CEILING-RTB-2X2-300-B1-35K8-UNV-DM-W	UNV	24W 3500K	RECESSED	Confirm grid style
S1-5	ARON	EDGET1-CEILING-RTB-2X2-500-B1-35K8-UNV-DM-W	UNV	40W 3500K	RECESSED	Confirm grid style
S2	ARON	EDGET1-CEILING-RTB-2X4-300-B1-35K8-UNV-DM-W	UNV	36W 3500K	RECESSED	Confirm grid style
S3	METALUX	22CGT3535C	UNV	31W 3500K	RECESSED	
X	SURELITES	EUR70R	120/277	1W	RECESSED	
WS	BROWNLEE	7110-26-BZ-H16-VB0-35K	UNV	16W 3500K	WALL	Confirm finish & mounting height
WP	McGRAW	IST-PA1C-73S-U-T4W-BZ	UNV	48.9W 3500K	WALL	Confirm finish & mounting height

Any proposed equal fixtures or controls shall be submitted 10 days prior to bid day, accompanied by detailed specification cut sheets and photometric calculations of every area where the proposed substitution fixture is located, including max-min, ave-min ratios. Any missing data shall deem the proposed alternate / substitute unacceptable and rejected without further consideration.

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

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MICHAEL WADE 89839 REGISTERED

10/22/2025

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/22/2025 10:32:11 AM

Drawn By:	Checked By:
KM	MW

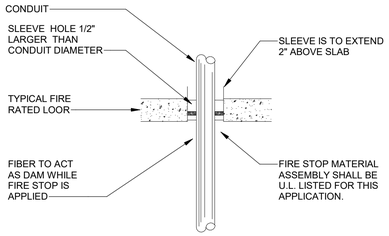
Project Phase:
PERMIT ISSUE

LIGHT FIXTURE SCHEDULE

E8.03

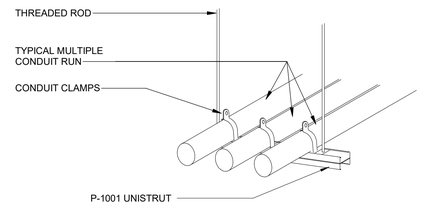
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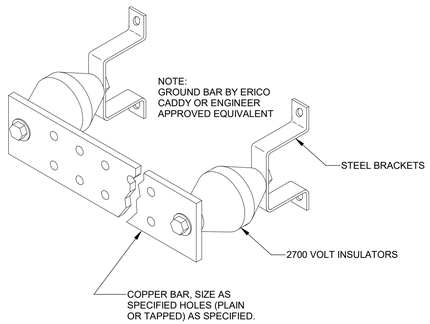


NOTE:
FIRE RATING OF COMPLETED FIREPROOFED ASSEMBLY SHALL EQUAL OR EXCEED THE FIRE RATING OF THE FLOOR.

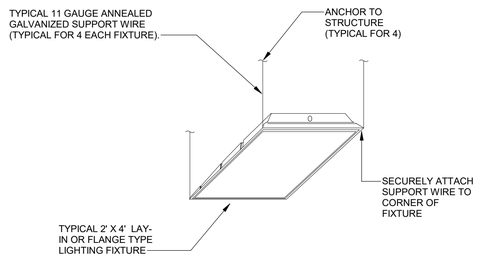
FLOOR PENETRATION 11
NTS



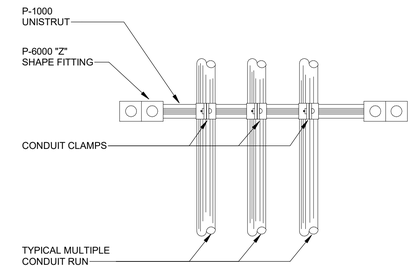
TRAPEZE MOUNTED CONDUIT 7
NTS



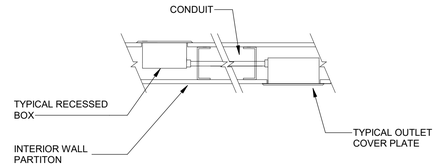
ELECTRICAL GROUND BUS BAR 14
NTS



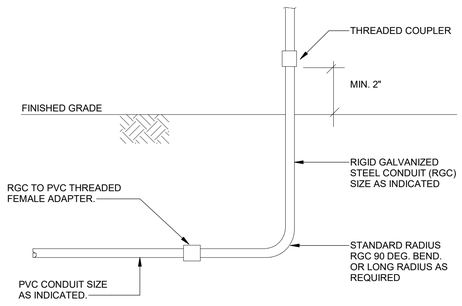
FIXTURE SUPPORT 10
NTS



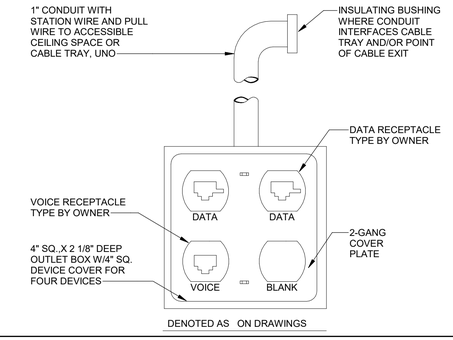
WALL MOUNTED CONDUIT SUPPORT 6
NTS



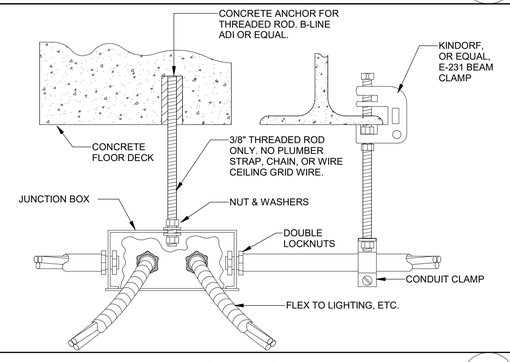
BACK TO BACK OUTLET 3
NTS



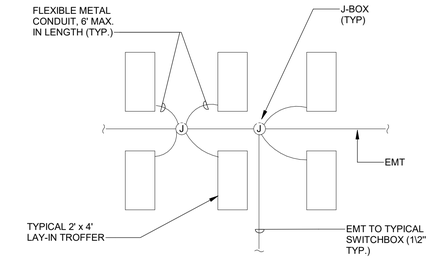
CONDUIT STUB-UP DETAIL 13
NTS



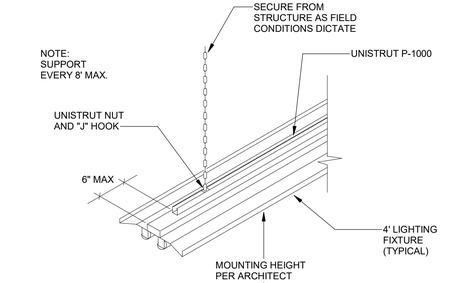
TYP. VOICE/DATA COMBO DEVICE 9
NTS



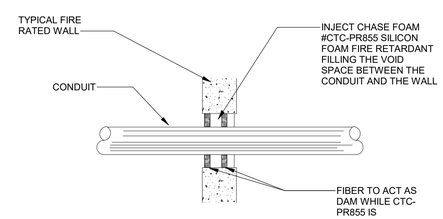
CONDUIT/BOX MOUNTING 5
NTS



CONDUIT/J-BOX 2
NTS

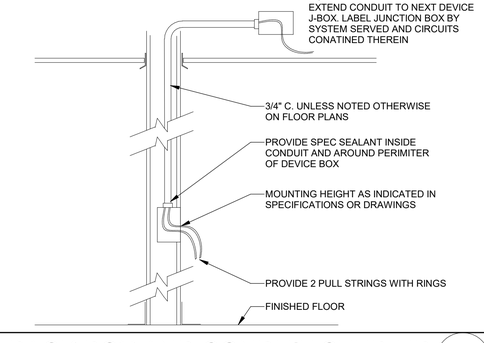


CHAIN HUNG STRIP LIGHT 12
NTS



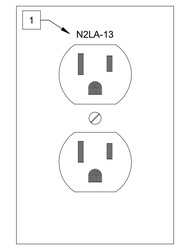
NOTE:
FIRE RATING OF COMPLETED FIREPROOFED ASSEMBLY SHALL EQUAL OR EXCEED THE FIRE RATING OF THE WALL

FIRE WALL PENETRATION 8
NTS



BACK BOX AND CONDUIT STUB-UP 4
NTS

NON-CRITICAL CARE AREAS:
PROVIDE LABELS FOR RECEPTACLE AND LIGHT SWITCH COVERPLATES CIRCUITED TO EMERGENCY POWER INDICATING THE PANELBOARD AND THE SUPPLY BRANCH CIRCUIT NUMBER. ALL LABELS SHALL BE TYPED. TEXT SHALL BE THERMAL SET, 12 POINT PLAIN AND SHALL HAVE A BLACK FINISH.



RECEPTACLE IDENTIFICATION 1
NTS

THE WOODLANDS TOWNSHIP

Δ	DATE:	ISSUE:
	10/22/25	100% PERMIT ISSUE

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10/22/2025

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PARD CAMPUS

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Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
10/22/2025 10:32:13 AM

Drawn By:	Checked By:
KM	MW

Project Phase:
PERMIT ISSUE

ELECTRICAL DETAILS

E9.01

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LIGHTING ROOM CONTROLS / SEQUENCE OF OPERATION IECC 2021

PRIVATE OFFICE
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE WALL MOUNTED DUEL TECHNOLOGY VACANCY SENSOR (OR CEILING MOUNTED DUEL TECHNOLOGY SENSOR AND WALL MOUNTED LOW VOLTAGE SWITCH) WITH 0-10V DIMMING CAPABILITY.

LOBBY
1. LIGHTING SHALL BE NETWORKED CONTROLLED WITH 0-10V DIMMING CAPABILITY AND TIME-CLOCK FUNCTIONALITY VIA NETWORK CONTROL WITH MULTIPLE ZONES AS NEEDED. CEILING MOUNTED SENSORS REQUIRED FOR AFTER HOURS CONTROL.
2. CONTROL STATIONS SHALL BE PRESET STATIONS FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
3. DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2021.
4. REFER TO DRAWINGS FOR COORDINATION OF SWITCH/DIM LEG AND ZONE CONTROL.
5. LIGHTS TO TURN ON AND OFF BASED OFF BUSINESS HOURS TIME CLOCK, WITH OVERRIDE STATION LOCKED OUT DURING BUSINESS HOURS.
6. AFTER HOURS LIGHTS CAN BE TURNED ON VIA OVERRIDE STATION OR CEILING MOUNTED OCCUPANCY SENSORS.

CORRIDORS
1. LIGHTING SHALL BE NETWORKED CONTROLLED WITH 0-10V DIMMING CAPABILITY AND TIME-CLOCK FUNCTIONALITY VIA NETWORK CONTROL WITH MULTIPLE ZONES AS NEEDED. CEILING MOUNTED SENSORS.
2. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL UNIFORMLY REDUCE LIGHTING POWER TO NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
3. CONTROL STATIONS SHALL BE PRESET STATIONS FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
4. DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2021.
5. REFER TO DRAWINGS FOR COORDINATION OF SWITCH/DIM LEG AND ZONE CONTROL.
6. LIGHTS TO TURN ON AND OFF BASED OFF BUSINESS HOURS TIME CLOCK, WITH OVERRIDE STATION LOCKED OUT DURING BUSINESS HOURS.
7. AFTER HOURS LIGHTS CAN BE TURNED ON VIA OVERRIDE STATION OR CEILING MOUNTED OCCUPANCY SENSORS.

OPEN OFFICES
1. LIGHTING SHALL BE NETWORKED CONTROLLED WITH 0-10V DIMMING CAPABILITY VIA NETWORK CONTROL WITH MULTIPLE ZONES AS NEEDED. CEILING MOUNTED SENSORS REQUIRED FOR EACH 600 SQ FT MAXIMUM ZONE.
2. CONTROL STATIONS SHALL BE PRESET STATIONS FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
3. DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2021.
4. REFER TO DRAWINGS FOR COORDINATION OF SWITCH/DIM LEG AND ZONE CONTROL.
5. EACH ZONE IS TO AUTO DIMM BY 20%. ONCE ALL ZONES HAVE AUTO DIMMED BY 20% ALL LIGHTING SHALL TURN OFF 100% OR HOLD PER IECC 2021.

CONFERENCE ROOMS
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE VACANCY SENSORS AND DIMMING CONTROLS.
2. CONTROL STATIONS SHALL BE PRESET STATIONS FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
3. DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2021.
4. REFER TO DRAWINGS FOR COORDINATION OF SWITCH/DIM LEG AND ZONE CONTROL.

BREAK ROOM
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE VACANCY SENSORS AND DIMMING CONTROLS.
2. CONTROL STATIONS SHALL BE PRESET STATIONS FOR SCENE CONTROL, KEYPAD OR TOUCH-SCREEN.
3. DAYLIGHT SENSORS AND DIMMING SHALL BE USED AS REQUIRED FOR SPACES WITH MORE THAN 150W OF LIGHTING IN DAYLIGHT ZONES WITHIN SPACE, PER IECC 2021.
4. REFER TO DRAWINGS FOR COORDINATION OF SWITCH/DIM LEG AND ZONE CONTROL.

COPY / WORK ROOM
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE VACANCY SENSOR, WALL MOUNT WITH ON/OFF OPERATION ONLY.

STORAGE ROOM
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE VACANCY SENSOR, WALL MOUNT WITH ON/OFF OPERATION ONLY.

RESTROOMS
1. LIGHTING SHALL BE CONTROLLED WITH STAND-ALONE OCCUPANCY SENSOR WITH ON/OFF OPERATION ONLY.
2. MANUAL OVERRIDE SHALL BE KEYPAD.

TIME-CLOCK SCHEDULING
1. SHALL INCLUDE ASTRONOMICAL TIME-CLOCK INTEGRAL TO PROCESSOR.
2. SCHEDULES SHALL ALLOW FOR:
3. WEEKDAY OPEN
4. WEEKDAY CLOSE
5. WEEKEND OPEN
6. WEEKEND CLOSE
7. SCHEDULE OF BUSINESS HOURS TO BE COORDINATED WITH OWNER PRIOR TO START UP.

OCCUPANCY / VACANCY SENSORS
1. TIME-DELAYS SHALL BE SET TO MANUFACTURE DEFAULT AT START UP, NO MORE THAN 30 MINUTES AS REQUIRED.
2. OCCUPANCY SENSORS SHALL BE AUTO ON/ AUTO OFF.
3. VACANCY SENSORS SHALL BE MANUAL ON/ AUTO OFF.

EMERGENCY EGRESS LIGHTING
1. ALL EMERGENCY LIGHTING SHALL MEET THE UL 924 STANDARDS FOR EMERGENCY LIGHTING AND CONTROLS.
   - THE ELECTRICAL SUPPLY MUST PROVIDE POWER WITHIN 10 SECONDS OF THE LOSS OF NORMAL POWER.
   - PERFORMANCE REQUIREMENTS FOR UNIT EQUIPMENT, AT LEAST 60% OF INITIAL ILLUMINATION MUST BE MAINTAINED FOR 90 MINUTES. THE BATTERY VOLTAGE SHALL REMAIN AT NO LESS THAN 87.5% OF ITS NOMINAL VOLTAGE DURING THE ENTIRE 90-MINUTE PERIOD.
   - UNDER NORMAL CONDITIONS, EGRESS LIGHTING MUST BE SERVED BY THE BUILDING'S PRIMARY ELECTRICAL SUPPLY. WHEN NORMAL SUPPLY FAILS, THE EMERGENCY POWER SUPPLY MUST ILLUMINATE PATHWAYS THAT LEAD TO EXITS, THE EXITS THEMSELVES, EXIT DISCHARGES, ELECTRICAL ROOMS, FIRE COMMAND CENTERS, FIRE PUMP ROOMS, AND GENERATOR ROOMS.
2. ALL EMERGENCY LUMINAIRES WITHIN AN AREA ARE TO FUNCTION THE SAME AS NONEMERGENCY LUMINAIRES WITHIN GIVEN AREA DURING NORMAL MODE UNLESS NOTED OTHERWISE.
3. LUMINAIRES DENOTED 'NL' ARE TO BE UNSWITCHED AND REMAIN ON AT ALL TIMES.

POWER SEQUENCE OF OPERATIONS: IECC 2021

C405.11 AUTOMATIC RECEPTACLE CONTROL.
THE FOLLOWING SHALL HAVE AUTOMATIC RECEPTACLE CONTROL COMPLYING WITH SECTION C405.11.1:
1. AT LEAST 50 PERCENT OF ALL 125V, 15- AND 20-AMP RECEPTACLES INSTALLED IN ENCLOSED OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULE OFFICE WORKSTATION SYSTEMS.
2. AT LEAST 25 PERCENT OF BRANCH CIRCUIT FEEDERS INSTALLED FOR MODULAR FURNITURE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS.

C405.11.1 AUTOMATIC RECEPTACLE CONTROL FUNCTION.
AUTOMATIC RECEPTACLE CONTROLS SHALL COMPLY WITH THE THE FOLLOWING:
1. EITHER SPLIT CONTROLLED RECEPTACLES SHALL BE PROVIDED WITH THE TOP RECEPTACLE CONTROLLED, OR A CONTROLLED RECEPTACLE SHALL BE LOCATED WITHIN 12 INCHES OF EACH UNCONTROLLED RECEPTACLE.
2. ONE OF THE FOLLOWING METHODS SHALL BE USED TO PROVIDE CONTROL:
   - 2.1 A SCHEDULED BASIS USING A TIME-OF-DAY OPERATED CONTROL DEVICE THAT TURNS RECEPTACLE POWER OFF AT SPECIFIC PROGRAMMED TIMES AND CAN BE PROGRAMMED SEPARATELY FOR EACH DAY OF THE WEEK. THE CONTROL DEVICE SHALL BE CONFIGURED TO PROVIDE AN INDEPENDENT SCHEDULE FOR EACH PORTION OF THE BUILDING OF NOT MORE THAN 5,000 SQUARE FEET (464.5 M 2) AND NOT MORE THAN ONE FLOOR. THE OCCUPANT SHALL BE ABLE TO MANUALLY OVERRIDE AN AREA FOR NOT MORE THAN 2 HOURS. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE RECEPTACLES OF NOT MORE THAN 5,000 FEET (1524 M).
   - 2.2 AN OCCUPANT SENSOR CONTROL THAT SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.
   - 2.3 AN AUTOMATED SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES AFTER DETERMINING THAT THE AREA IS UNOCCUPIED.
3. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70 AND BE UNIFORMLY DISTRIBUTED THROUGHOUT THE SPACE.
4. PLUG-IN DEVICES SHALL NOT COMPLY.

EXCEPTIONS: AUTOMATIC RECEPTACLE CONTROLS ARE NOT REQUIRED FOR THE FOLLOWING:
1. RECEPTACLES SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION (24 HOURS PER DAY, 365 DAYS PER YEAR).
2. SPACES WHERE AN AUTOMATIC CONTROL WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.
3. WITHIN A SINGLE MODULAR OFFICE WORKSTATION, NONCONTROLLED RECEPTACLES ARE PERMITTED TO BE LOCATED MORE THAN 12 INCHES, BUT NOT MORE THAN 72 INCHES FROM THE CONTROLLED RECEPTACLES SERVING THAT WORKSTATION.

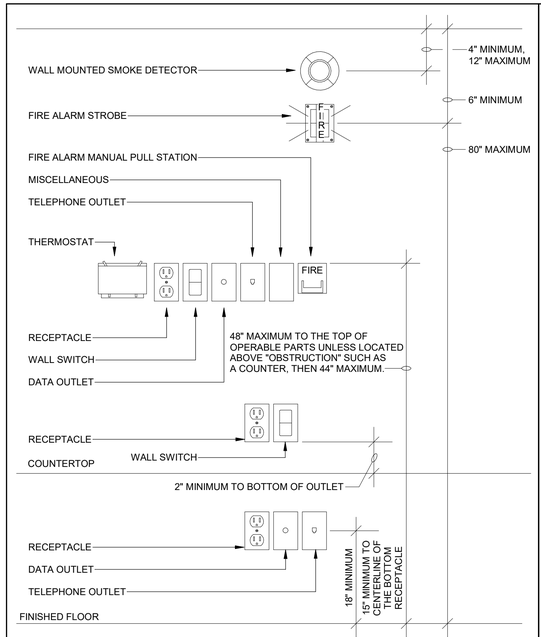
C405.12 ENERGY MONITORING. NEW BUILDINGS WITH A GROSS CONDITIONED FLOOR AREA OF 25,000 SQUARE FEET (2322 M 2) OR LARGER SHALL BE EQUIPPED TO MEASURE, MONITOR, RECORD, AND REPORT ENERGY CONSUMPTION DATA IN COMPLIANCE WITH SECTIONS C405.12.1 THROUGH C405.12.5.

EXCEPTION: R-2 OCCUPANCIES AND INDIVIDUAL TENANT SPACES ARE NOT REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT THE SPACE HAS ITS OWN UTILITY SERVICES AND METERS AND HAS LESS THAN 5,000 SQUARE FEET (464.5 M 2) OF CONDITIONED FLOOR AREA.

C405.12.1 ELECTRICAL ENERGY METERING. FOR ALL ELECTRICAL ENERGY SUPPLIED TO THE BUILDING AND ITS ASSOCIATED SITE, INCLUDING BUT NOT LIMITED TO SITE LIGHTING, PARKING, RECREATIONAL FACILITIES AND OTHER AREAS THAT SERVE THE BUILDING AND ITS OCCUPANTS, METERS OR OTHER MEASUREMENT DEVICES SHALL BE PROVIDED TO COLLECT ENERGY CONSUMPTION DATA FOR EACH END-USE CATEGORY REQUIRED BY SECTION C405.12.2.

C405.12.2 END-USE METERING CATEGORIES. METERS OR OTHER APPROVED MEASUREMENT DEVICES SHALL BE PROVIDED TO COLLECT ENERGY USE DATA FOR EACH END-USE CATEGORY INDICATED IN TABLE C405.12.2. WHERE MULTIPLE METERS ARE USED TO MEASURE ANY END-USE CATEGORY, THE DATA ACQUISITION SYSTEM SHALL TOTAL ALL OF THE ENERGY USED BY THAT CATEGORY. NOT MORE THAN 5 PERCENT OF THE MEASURED LOAD FOR EACH OF THE END-USE CATEGORIES INDICATED IN TABLE C405.12.2 SHALL BE PERMITTED TO BE FROM A LOAD THAT IS NOT WITHIN THAT CATEGORY.

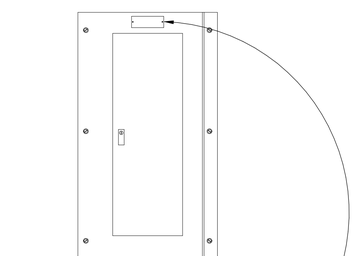
EXCEPTIONS:
1. HVAC AND WATER HEATING EQUIPMENT SERVING ONLY AN INDIVIDUAL DWELLING UNIT SHALL NOT REQUIRE END-USE METERING.
2. END-USE METERING SHALL NOT BE REQUIRED FOR FIRE PUMPS, STAIRWELL PRESSURIZATION FANS OR ANY SYSTEM THAT OPERATES ONLY DURING TESTING OR EMERGENCY.
3. END-USE METERING SHALL NOT BE REQUIRED FOR AN INDIVIDUAL TENANT SPACE HAVING A FLOOR AREA NOT GREATER THAN 2,500 SQUARE FEET WHERE A DEDICATED SOURCE METER COMPLYING WITH SECTION C405.12.3 IS PROVIDED.



NOTES:
1. ALL DEVICES SHOWN MAY NOT BE USED. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY.
2. IF THEY ARE ANY DISCREPANCIES WITH THE MOUNTING HEIGHTS CALLED OUT IN THIS DETAIL AND ANY CALLED FOR IN THE ARCHITECTURAL DRAWINGS, THE ARCHITECTURAL DRAWINGS WILL TAKE PRECEDENCE.

MOUNTING HEIGHT 2
NTS

NOTE:
ALL PANELBOARDS IN THIS PROJECT SHALL BE IDENTIFIED BY THE PANEL NAME, SYSTEM.
RE: SPECIFCIATIONS FOR COLORS AND ADDITIONAL INFORMATION.



PANEL "CR2HA'
FED FROM DISTRIBUTION PANEL
"CR3DA"
480V/277V, ∅3, 4W
CRITICAL BRANCH
AVAILABLE FAULT CURRENT = XX,XXX AMPS

PROVIDE AVAILABLE FAULT CURRENT LABELING PER CITY OF HOUSTON AS FOLLOWS:

A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

TYP. PANELBOARD IDENTIFICATION 1
NTS

CITY STAMP APPROVAL

THE WOODLANDS TOWNSHIP

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PARD CAMPUS

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Project Number:	Sheet Size:
24026	24 x 36

Date / Time Plotted:
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KM	MW

Project Phase:
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ELECTRICAL DETAILS

E9.02

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PLUMBING SYMBOL LEGEND
(CONTINUED)

SYMBOL	DESCRIPTION
	PLUG VALVE
	PRESSURE REDUCING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	VENT THRU ROOF
	HOSE BIBB
	HOSE BIB
	ANGLE VALVE
	BALANCING VALVE
	FIRE DEPARTMENT VALVE AT RISER
	SOLENOID VALVE
	OS+Y VALVE
	MOTOR CONTROLLED VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	VALVE IN RISE
	PNEUMATICALLY CONTROLLED VALVE
	ACCESS PANEL FOR TRAP PRIMER
AP	ACCESS PANEL LOCATION SYMBOL
	UNION
X X X X	ITEMS TO BE REMOVED
	PRESSURE GAUGE
	THERMOMETER
CD	CONDENSATE DRAIN LINE
	BRANCH CONNECTION, TOP
	BRANCH CONNECTION, BOTTOM
	ELBOW UP
	ELBOW DOWN
	CLEANOUT (AT FLOOR) (FCO)
	CLEANOUT (ON GRADE) WITH 18" X 18" X 4" CONCRETE PAD (COTG)
	CLEANOUT (TWO-WAY) (PROVIDE CONCRETE PAD OUTSIDE 18" X 24" X 4")
	WALL CLEANOUT
	FLOOR DRAIN
	FLOOR DRAIN/FLOOR SINK (FD) (FS)
	SHOCK ABSORBER
	STRAINER
	PIPE CONTINUATION
	NEW CONNECTION TO EXISTING
	HUB DRAIN (HD)
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	BRANCH CONNECTION OUT OF TOP
	CAP ON END OF PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

PLUMBING PIPING LEGEND

PIPE TYPE	ABBREV	DESCRIPTION
AV	AV	ACID WASTE VENT
AW	AW	ACID WASTE
AI	AI	AIR COMPRESSOR INTAKE
CAI	CAI	COMBUSTION AIR INTAKE
CA	CA	COMPRESSED AIR
DV	DV	DENTAL VACUUM
CW	CW	DOMESTIC COLD WATER
CWM	CWM	DOMESTIC COLD WATER MAKE-UP
CWS	CWS	DOMESTIC COLD WATER SOFTENED
HW	HW	DOMESTIC HOT WATER
HWR	HWR	DOMESTIC HOT WATER RETURN
TW	TW	TEMPERED WATER
FPAS	FPAS	FIRE PROTECTION AUTOMATIC SPRINKLER
FPD	FPD	FIRE PROTECTION DRY
FPO	FPO	FIRE PROTECTION OTHER
FPPA	FPPA	FIRE PROTECTION PRE-ACTION
FPW	FPW	FIRE PROTECTION WET
FGE	FGE	FLUE GAS EXHAUST
GW	GW	GREASE WASTE
GWW	GWW	GREY WATER WASTE
MA	MA	MEDICAL AIR
CO2	CO2	MEDICAL CARBON DIOXIDE
N	N	MEDICAL NITROGEN
N2O	N2O	MEDICAL NITROUS OXIDE
O	O	MEDICAL OXYGEN
MV	MV	MEDICAL VACUUM
WAGD	WAGD	MEDICAL WAGD
G	G	NATURAL GAS
RO	RO	REVERSE OSMOSIS WATER
SAN	SAN	SANITARY WASTE
PSAN	PSAN	SANITARY PUMPED
	SV	SANITARY VENT
SD	SD	STORM
OD	OD	STORM OVERFLOW
PSD	PSD	STORM PUMPED
TP	TP	TRAP PRIMER
V	V	VACUUM
VE	VE	VACUUM PUMP EXHAUST
		(N)NEW CONNECTION TO (E)EXISTING
		NEW CONSTRUCTION
		EXISTING TO REMAIN
		EXISTING TO BE DEMOLISHED

PLUMBING NOTES AND DESIGNATIONS

1 / P-1	SECTION DESIGNATION
I.E=-X'-0"	INVERT ELEVATION NOTE
1	NOTE DESIGNATIONS
P-XX	PLUMBING FIXTURE DESIGNATION
DS / 1	RISER DIAGRAM DESIGNATION DS = DOWNSPOUT, P = PLUMBING, F = FIRE, AW = ACID WASTE

ABBREVIATIONS

A.D.	AREA DRAIN	H.W.	HOT WATER
AFC	ABOVE FINISHED CEILING	H.W.R.	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	HGT	HEIGHT
AFG	ABOVE FINISHED GRADE	HORIZ	HORIZONTAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HP	HORSEPOWER
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	HVAC	HEATING, VENTILATING & AIR CONDITIONING
ARCH	ARCHITECTURAL	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
ATS	AUTOMATIC TRANSFER SWITCH	INSUL	INSULATION
AUX	AUXILLARY	INV.	INVERT
B.F.P.	BACKFLOW PREVENTER	LAV	LAVATORY
B.V.	BALANCING VALVE	MTD	MOUNTED
B.D.	BALCONY DRAIN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
B.S.	BAR SINK	N.C.	NORMALLY CLOSED
B.T.	BATHTUB / SHOWER	N.O.	NORMALLY OPEN
C.V.	CHECK VALVE	OFCI CONTRACTOR	OWNER FURNISHED AND INSTALLED
C.O.	CLEANOUT	OFI	OWNER FURNISHED AND INSTALLED
C.W.	COLD WATER	PH	PHASE
COL	COLUMN	PLB	PLUMBING
COND.	CONDENSATE	PVC	POLYVINYL CHLORIDE
CONT.	CONTINUE	LBS	POUNDS
CFH	CUBIC FEET PER HOUR	P.S.I.	POUNDS PER SQUARE INCH
CFM	CUBIC FEET PER MINUTE	REL	RELOCATE
D.D.	DECK DRAIN	RM	ROOM
°F	DEGREES FARENHEIT	SK	SINK
D.	DRAIN	SPECS	SPECIFICATIONS
D.F.U.	DRAINAGE FIXTURE UNITS	SPKLR	SPRINKLER
DIA	DIAMETER	TYP	TYPICAL
DWG	DRAWING	UL INC.	UNDERWRITERS LABORATORIES,
(E)	EXISTING / EXISTING TO REMAIN	UR	URINAL
EQMT	EQUIPMENT	VENT	VENTILATING
F.D.C.	FIRE DEPARTMENT CONNECTION	V.T.R.	VENT THRU ROOF
F.H.C.	FIRE HOSE CABINET	VERT	VERTICAL
F.	FIRE	V	VOLTS
FIXT	FIXTURE	W.C.O.	WALL CLEAN OUT
FL	FLUSH	W.H.	WALL HYDRANT
FT	FEET	W.B.	WASHER BOX
F.F. FLR	FINISHED FLOOR	W&V	WASTE AND VENT
F.C.O.	FLOOR CLEAN OUT	WS	WASTE STACK
F.D.	FLOOR DRAIN	WC	WATER CLOSET
F.S.	FLOOR SINK	W.C.	WATER COLUMN
GA	GAUGE		
GALV	GALVANIZED		
G.P.H.	GALLONS PER HOUR		
G.P.M.	GALLONS PER MINUTE		
G.V.	GREASE VENT		
G.C.O.	GRADE CLEAN OUT		
GC	GENERAL CONTRACTOR		
GT	GREASE TRAP		
G.W.	GREASE WASTE		

PIPE MATERIAL LIST

ABOVE GRADE, INSIDE BUILDING:

STORM, SANITARY WASTE, AND VENT PIPING SHALL BE:
NO-HUB STANDARD WEIGHT CAST IRON PIPE ASTM A 888 OR CISPI 30. HEAVY DUTY 4 STRAP HUBLESS PIPING COUPLING, STAINLESS-STEEL SHIELD WITH STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP.

DOMESTIC WATER PIPING SHALL BE:
HARD COPPER TUBE: ASTM B 88, TYPE L (ASTM B 88M, TYPE B) WATER TUBE, DRAWN TEMPER. WROUGHT-COPPER SOLDER-JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS AND 95-5 SOLDER JOINTS.

NATURAL GAS PIPING SHALL BE:
ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN BANDED AIR TESTED AND SCREWED JOINTS.

FIRE PROTECTION PIPING SHALL BE:
SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA FOR APPLICABLEFIRE PROTECTION SYSTEMS. CONFORM TO ASTM A53 AND A120. PROVIDE PIPING WITH MALLEABLE IRON, CAST-IRON, STEEL WELDED OR SCREWED FITTINGS. VICTAULIC GROOVED FITTINGS MAY BE USED ABOVE GRADE IN ACCESSIBLE LOCATIONS ONLY.

MEDICAL GAS PIPING:
ALL MEDICAL AND LABRATORY GAS AND VACUUM PIPING TO BE ASTM B819; TYPE K, SEAMLESS, DRAWN TEMPER THAT HAS BEEN MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE. WROUGHT-COPPER FITTINGS: ASME B16.22, SOLDER-JOINT PRESSURE TYPE OR MSS SP-73, WITH DIMENSIONS FOR BRAZED JOINTS.

BELOW GRADE INSIDE BUILDING:

STORM, SANITARY WASTE, AND VENT PIPING SHALL BE:
SOLID-WALL PVC PIPE: ASTM D 2665, DRAIN, WASTE, AND VENT. PVC SOCKET FITTINGS: ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS AND TO FIT SCHEDULE 40 PIPE.

DOMESTIC WATER PIPING SHALL BE:
DRAWN (HARD) COPPER WATER TUBE, TYPE "L", ASTM B88, WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS.

ABOVE GRADE, OUTSIDE BUILDING:

DOMESTIC WATER PIPING SHALL BE:
COPPER WATER TUBE, TYPE "K" RIGID, ASTM B-88 WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS. PROVIDE 1 INCH THICK MOLDED FIBERGLASS INSULATION COVERED ALUMINUM JACKET.

NATURAL GAS PIPING SHALL BE:
SCHEDULE 40 BLACK STEEL, SEAMLESS, OR ELECTRIC RESISTANCE WELDED, ASTM A-53 WITH WELDED JOINTS AND STEEL FITTINGS SAME THICKNESS AS PIPE. PIPING 2 INCHES AND SMALLER MAY BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON 150 PSI CLASS FITTINGS ANSI B16.3, BANDED AIR TESTED AND SCREWED JOINTS. PROVIDE FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND EPOXY PAINT COATING ON ALL PIPE AND FITTINGS. FIELD APPLIED COATING IS RESTRICTED TO FITTINGS AND SHORT SECTIONS OF PIPE NECESSARILY STRIPPED FOR THREADING OR WELDING. FIELD COATING SHALL BE MANUFACTURED BY AMERCOAT TYPE 240 OR APPROVED EQUAL AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. GALVANIZING SHALL NOT BE CONSIDERED ADEQUATE PROTECTION.

GENERAL NOTES

1. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS), I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
2. ALL CONFLICTS, WHICH MAY PREVENT THE COMPLETION OF WORK AS INTENDED, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
3. THE CONTRACTOR SHALL NOT PROCEED WITH ANY RELATED WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
4. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, I.E., FULLY ADJUSTED, TESTED, AND READY FOR OPERATION.
5. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
6. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE SUCH ITEMS AS ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS UPON COMPLETION OF THE WORK.
7. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN A WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR WRITTEN APPROVAL.
8. PROVIDE NFPA APPROVED FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS.
9. IF BASE BUILDING SPECIFICATIONS EXCEED SPECIFICATIONS HEREIN, THEN BASE BUILDING STANDARDS SHALL BE FOLLOWED.

GENERAL DEMOLITION NOTES

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT AND EXTENT OF WORK THAT SHALL BE REQUIRED. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND VERIFY THE LOCATION OF ALL EXISTING CONDITIONS THAT ARE READILY OBSERVABLE. SUBMISSION OF A BID SHALL CONSTITUTE THAT THE SUBMITTING CONTRACTOR HAS INSPECTED THE JOB SITE AND BECOME FAMILIAR WITH THE PROPOSED WORK.
2. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES AND ARCHITECT PRIOR TO REMOVAL OF EQUIPMENT, FIXTURES AND PIPING.
3. REASONABLE EFFORT HAS BEEN MADE TO PRODUCE DEMOLITION DRAWINGS WHICH REPRESENT ACTUAL CONDITIONS , HOWEVER, THE PLUMBING DRAWINGS MAY NOT ACCURATELY REFLECT ALL EXISTING KNOWN CONDITIONS.
4. NOTIFY A/E IMMEDIATELY OF ANY VARIATIONS THAT ARE DIFFERENT FROM THE DEMOLITION DRAWINGS PRIOR TO STARTING ANY WORK IN THAT AREA.
5. ALL PLUMBING FIXTURES SCHEDULED TO BE DEMOLISHED SHALL BE RETURNED TO OWNER. IF REFUSED, THEN DISPOSE OF PROPERLY.
6. EXISTING FIXTURES SCHEDULED TO REMAIN SHALL BE CLEANED, FLUSHED AND SANITIZED PRIOR TO TURNING THE PROJECT OVER TO THE OWNER.

FIRE SPRINKLER NOTE

THE PROJECT AREA IS CURRENTLY FULLY 100% SPRINKLED WITH AN AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM. SYSTEM(S) SHALL BE REVISED AS REQUIRED BY A LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS TO COMPLY WITH NEW SPACE LAYOUT, PER NFPA 13, AND ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. RE-WORK AND OR RELOCATE SPRINKLER HEADS/BRANCHES AND MAINS AS REQUIRED FOR NEW CEILING LAYOUT. MATCH EXISTING FIRE SPRINKLER HEAD TYPES FOR EACH CEILING TYPE.

CITY STAMP APPROVAL

DRAWING LIST

P0.01	PLUMBING SYMBOLS, LEGENDS AND GENERAL NOTES
P0.02	PLUMBING SPECIFICATIONS
P1.01	PLUMBING SITE PLAN
P1.02A	PLUMBING DEMO FLOOR PLAN - BLDG A
P1.02B	PLUMBING DEMO FLOOR PLAN - BLDG B
P2.00AC	PLUMBING UNDERFLOOR PLAN - BLDG A&C
P2.00B	PLUMBING UNDERFLOOR PLAN - BLDG B
P2.01AC	PLUMBING FLOOR PLAN - BLDG A&C
P2.01B	PLUMBING FLOOR PLAN - BLDG B
P7.01	PLUMBING RISER DIAGRAM
P8.01	PLUMBING SCHEDULES & DETAILS

FIRE SPRINKLER NOTE

THE PROJECT AREA IS CURRENTLY FULLY 100% SPRINKLED WITH AN AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM(S) SHALL BE REVISED AS REQUIRED BY A LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. RE-WORK AND OR RELOCATE SPRINKLER HEADS/BRANCHES AND MAINS AS REQUIRED FOR NEW CEILING LAYOUT.

THE WOODLANDS TOWNSHIP

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	10/22/25	100% PERMIT ISSUE

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PLUMBING SYMBOLS, LEGENDS AND GENERAL NOTES

P0.01

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BASIC REQUIREMENTS

CODES AND STANDARDS:

A. ALL WORK SHALL COMPLY WITH THE MOST RECENTLY REVISED VERSIONS OF ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES AND APPLICABLE UTILITIES. NONE OF THE TERMS OR PROVISIONS OF THIS SPECIFICATION SHALL BE CONSTRUED AS WAIVING ANY PART OF THE RULES, REGULATIONS OR REQUIREMENTS OF THESE AUTHORITIES.

DRAWINGS AND SPECIFICATIONS

A. DRAWINGS: THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE APPROXIMATE LOCATIONS OF THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS, FIRE PROTECTION SYSTEMS, PLUMBING EQUIPMENT, FIXTURES AND PIPING SYSTEMS, EXCEPT WHERE SPECIFIC LOCATIONS ARE NOTED AND DIMENSIONED ON THE DRAWINGS. ALL ITEMS ARE SHOWN APPROXIMATELY TO SCALE. THE INTENT IS TO SHOW HOW THESE ITEMS SHALL BE INTEGRATED INTO THE CONSTRUCTION. LOCATE ALL ITEMS BY ON THE JOB MEASUREMENTS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. COORDINATE WITH OTHER TRADES.

COMPLETENESS OF WORK

A. THE CONTRACT DOCUMENTS DEPICT PLUMBING SYSTEMS WHICH ARE INTENDED TO BE COMPLETE AND FUNCTIONING SYSTEMS. ALL PRODUCTS, MATERIALS, AND LABOR NECESSARY TO RENDER A FULLY FUNCTIONAL SYSTEM TO FULFILL THE DESIGN INTENT SHOWN ON THE DOCUMENTS SHALL BE PROVIDED BY THE CONTRACTOR.
B. CATALOG NUMBERS REFERENCED THROUGHOUT THE DIVISION 15 DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY A GENERAL UNDERSTANDING OF THE TYPE AND QUALITY OF THE PRODUCT REQUIRED. WHERE WRITTEN DESCRIPTIONS DIFFER FROM INFORMATION CONVEYED BY A CATALOG NUMBER, THE WRITTEN DESCRIPTION SHALL GOVERN. NO EXTRA SHALL BE ALLOWED BECAUSE A CATALOG NUMBER IS FOUND TO BE INCOMPLETE OR OBSOLETE.

COORDINATION

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL ITEMS THAT WILL AFFECT THE INSTALLATION OF THE WORK OF THIS DIVISION. THE COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VOLTAGE, AMPACITY, CAPACITY, ELECTRICAL/PIPING CONNECTIONS, STRUCTURAL SUPPORTS, SPACE REQUIREMENTS, LOCATING DEVICES IN ARCHITECTURAL FINISH ELEMENTS, STAGING THE CONSTRUCTION AND BUILDING REQUIREMENTS, AND SPECIAL CONDITIONS.
B. BY SUBMITTING SHOP DRAWINGS ON THE PROJECT, THIS CONTRACTOR IS INDICATING THAT ALL NECESSARY COORDINATION HAS BEEN COMPLETED AND THAT THE SYSTEMS, PRODUCTS AND EQUIPMENT SUBMITTED CAN BE INSTALLED IN THE BUILDING AND WILL OPERATE AS SPECIFIED AND INTENDED, IN FULL COORDINATION WITH ALL OTHER DISCIPLINES.

EQUIPMENT NOISE AND VIBRATION

A. IT IS THE INTENT TO SPECIFY AND FOR THE CONTRACTOR TO INSTALL SYSTEMS THAT ARE QUIET AND FREE OF VIBRATION. EQUIPMENT SHALL BE BALANCED AND VIBRATION ISOLATED TO MEET THE REQUIREMENTS SPECIFIED HEREIN FOR BOTH THE EQUIPMENT ITSELF AND CONDITIONS WITHIN OCCUPIED SPACES. THIS CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND INSTALLING EQUIPMENT THAT IS QUIET IN OPERATION AS COMPARED TO OTHER AVAILABLE EQUIPMENT OF ITS SIZE, CAPACITY, AND TYPE.
B. EQUIPMENT NOT MEETING THESE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR TO AN ACCEPTABLE LEVEL BUT WITHIN THE REQUIREMENTS OF THE SPECIFICATIONS AT NO COST TO THE OWNER, ARCHITECT OR ENGINEER.
C. AIR DISTRIBUTION EQUIPMENT SHALL BE SOUND TESTED AT THE DESIGN OPERATING CONDITIONS AND SHALL NOT EXCEED AN NC OF 35 AT RATED CFM.
D. NOISE LEVEL: UNLESS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, THE NOISE LEVEL IN ALL OCCUPIED SPACES SHALL NOT EXCEED THE "LOWEST VALUE IN THE RANGE" OF THE NOISE CRITERIA CURVES PUBLISHED IN THE CURRENT FUNDAMENTALS EDITION OF THE ASHRAE GUIDE AND DATA BOOK. THE NOISE CRITERIA CURVES SHALL BE BASED ON ANSI STANDARD S1.6-1967 OCTAVE BANDS AND A SOUND PRESSURE LEVEL IN DECIBELS REFERENCED TO 0.002 MICROBARS. SOUND LEVELS IN OCCUPIED SPACES MUST MEET THE DESIGN CRITERIA WITH ALL CONSTRUCTION IN PLACE.
E. VERIFICATION: SHOULD A QUESTION ARISE REGARDING THE ACCEPTABLE LEVEL OF NOISE OR VIBRATION IN A PARTICULAR SPACE OR PIECE OF EQUIPMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED ACOUSTICAL CONSULTANT TO DETERMINE ACTUAL NOISE/VIBRATION CONDITIONS.

WARRANTIES AND GUARANTEES

A. GENERAL: CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND EQUIPMENT INSTALLED BY HIM AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF TWELVE (12) MONTHS AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER, AND HE SHALL REPAIR OR REPLACE ANY MATERIALS OR EQUIPMENT DEVELOPING SUCH DEFECTS WITHIN THAT TIME, PROMPTLY ON DUE NOTICE GIVEN HIM BY THE OWNER AND AT CONTRACTOR'S SOLE COST AND EXPENSE.
B. EQUIPMENT: ALL EQUIPMENT BEARING A MANUFACTURER'S GUARANTEE SHALL BE CONSTRUED TO HAVE AN EXTENDED GUARANTEE TO THE OWNER BY THE MANUFACTURER. ANY SUCH EQUIPMENT THAT PROVES DEFECTIVE IN MATERIALS OR WORKMANSHIP WITHIN THE GUARANTEE PERIOD IS TO BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S GUARANTEE.

SUBMITTALS AND SHOP DRAWINGS

A. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH PRODUCT DATA AND SHOP DRAWINGS FOR ALL MATERIALS & EQUIPMENT SPECIFIED BELOW. SUBMITTALS SHALL BE PROVIDED IN AN ELECTRONIC FORMAT. SUBMITTAL DATA SHALL INCLUDE:
   1. COVER SHEET WITH NAMES AND ADDRESSES OF PROJECT, ARCHITECT MEP ENGINEER, GENERAL CONTRACTOR & SUB CONTRACTOR.
   2. DRAWING REFERENCE NUMBER, PRODUCT NAME AND/OR DESCRIPTION.
   3. INDEX OF ALL DATA IN SUBMITTAL.
   4. DIMENSIONAL DATA AND SKETCHES SHOWING THAT SUBMITTED EQUIPMENT WILL FIT INTO SPACE AVAILABLE AND WILL HAVE REQUIRED CODE AND MAINTENANCE CLEARANCES.
   5. IDENTIFICATION OF EACH ITEM MATCHING THAT INDICATED ON THE DRAWINGS.
   6. SUFFICIENT PERFORMANCE DATA, CAPACITY, SOUND DATA, DIAGRAMMATIC DATA AND DESCRIPTIVE INFORMATION TO SHOW ITS COMPLIANCE'S WITH THE CONTRACT DOCUMENTS. OPTIONS OR SPECIAL REQUIREMENTS SHALL BE CLEARLY INDICATED. APPLICABLE INFORMATION SHALL BE CLEARLY INDICATED AND NON APPLICABLE DATA SHALL BE CROSSED OFF.
   7. MATERIALS AND EQUIPMENT PURCHASED OR INSTALLED WITHOUT A "NO EXCEPTIONS TAKEN" SHOP DRAWING REVIEW SHALL BE AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL AND AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL AND REPLACEMENT OF SUCH MATERIALS WHICH IS JUDGED UN-SATISFACTORY BY THE ENGINEER FOR ANY REASON SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
   8. ANY ITEMS KNOWINGLY SUBMITTED THAT DO NOT COMPLY WITH SPECIFICATIONS SHALL BE LISTED WITH EXPLANATION AS TO WHY THEY ARE BEING SUBMITTED.

B. REQUIRED SUBMITTALS / SHOP DRAWINGS:
   1. FIXTURES
   2. EQUIPMENT
   3. WATER HEATERS
   4. PUMPS
   5. PIPING
   6. HANGERS

DOMESTIC WATER PIPING

A. ALL BRANCH WATER PIPING INSIDE THE BUILDING SHALL BE TYPE "L" COPPER TUBING (ASTM B-88) WITH WROUGHT COPPER FITTINGS (ANSI B16.22). CLEAN AND DEBURR THE INSIDE OF ALL FITTINGS CAREFULLY BEFORE JOINING WITH LEAD-FREE TIN/COPPER/SILVER/NICKLE SOLDER CONFORMING TO ASTM B32. WOLVERINE SILVABRITE 100 LEAD-FREE SOLDER OR HARRIS NICK LEAD-FREE SOLDER ARE ACCEPTABLE LEAD-FREE SOLDERS. USE WATER SOLUBLE FLUX RECOMMENDED BY SOLDER MANUFACTURER AND CONFORMING TO ASTM B813 AND NSF 61. WOLVERINE SILVABRITE 100 WATER SOLUBLE FLUX OR BRIDGIT WATER SOLUBLE PASTE FLUX ARE ACCEPTABLE FLUX . NO ACIDS SHALL BE USED TO CLEAN EITHER PIPE OR FITTINGS OR AS A FLUX IN SWEATING JOINTS. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.
B. ALL COPPER WATER PIPING SHALL BE COMPLETELY ISOLATED FROM METAL HANGERS, METAL STUDS OR ANY OTHER ELECTRICALLY CONDUCTIVE BUILDING COMPONENTS. PROVIDE DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN COPPER AND GALVANIZED PIPE.
C. PROPRESS MAY BE USED FOR TUBING SIZES 1/2" THRU 4" AND SHALL CONFORM TO THE MATERIALS AND SIZING REQUIREMENTS OF ASME B16.18 OR ASME B 16.22 AND HAVE "NSF-61" STAMPED ONTO THE FITTINGS. NO MIXING OF FITTING MANUFACTURERS SHALL BE ALLOWED. SEALING ELEMENTS FOR COPPER PRESS FITTINGS SHALL BE EPDM. SEALING ELEMENTS SHALL BE FACTORY INSTALLED OR AN ALTERNATIVE SUPPLIED BY FITTING MANUFACTURER. PRESS ENDS SHALL HAVE A FEATURE DESIGN LEAKAGE PATH. COPPER PRESS FITTINGS SHALL HAVE A SPECIFIC DESIGN FEATURE TO ENSURE THAT UNPRESSED FITTINGS WILL BE IDENTIFIED AT ANY PRESSURE GREATER THAN 15 PSIG. COPPER PRESS FITTINGS SHALL BE RATED FOR 200 PSIG WORKING PRESSURES AND TEMPERATURES 250 DEGREES F. PRESS CONNECT FITTINGS SHALL HAVE THE SMART CONNECT FEATURE, GUARANTEED TO DETECT UNPRESSED FITTING DURING TESTING PROCESS. THE INSTALLER'S SHALL BE TRAINED BY VIEGA AND CARRY TRAINING CREDENTIALS
D. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT 1.5 TIMES SYSTEM DESIGN PRESSURE.

SANITARY SOIL WASTE AND VENT PIPING (BELOW GRADE) - PVC

A. WASTE AND VENT SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC WITH SOCKET FITTINGS AND SOLVENT WELDED CONNECTIONS FOR BELOW-GRADE APPLICATIONS. ABOVE GRADE CONNECTIONS MAY UTILIZE NO-HUB FITTINGS.
B. PVC PIPE SHALL BE AS MANUFACTURED BY CHARLOTTE, HARVEL, JM EAGLE OR ACCEPTED EQUAL.
C. SLOPE ALL WASTE AND VENT PIPING IN ACCORDANCE WITH LOCAL CODES.
D. PROVIDE AND INSTALL ALL CLEANOUTS INDICATED AND AS REQUIRED BY LOCAL CODES.
E. THE WASTE AND VENT SYSTEM SHALL BE TESTED AS REQUIRED BY THE PLUMBING CODES HAVING JURISDICTION.

SANITARY SOIL WASTE AND VENT PIPING (ABOVE GRADE) - CAST IRON

A. ABOVE GRADE WASTE AND VENT SHALL BE NO-HUB STANDARD WEIGHT CAST IRON PIPE WITH NO-HUB DRAINAGE FITTINGS USING STAINLESS STEEL COUPLINGS THAT MEET ASTM C 1540.
B. CAST IRON PIPE SHALL BE AS MANUFACTURED BY CHARLOTTE, TYLER, OR NEWAGE CASTING.
C. SLOPE ALL WASTE AND VENT PIPING IN ACCORDANCE WITH LOCAL CODES.
D. PROVIDE AND INSTALL ALL CLEANOUTS INDICATED AND AS REQUIRED BY LOCAL CODES.
E. THE WASTE AND VENT SYSTEM SHALL BE TESTED AS REQUIRED BY THE PLUMBING CODES HAVING JURISDICTION.

IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

A. IDENTIFY ALL NEW SYSTEM PIPING. USE OPTI-CODE BRADY PRESSURE SENSITIVE ADHESIVE PIPE MARKERS CONSISTING OF PIPE MARKER AND DIRECTION OF FLOW ARROW TAPE. BACKGROUND COLORS OF MARKERS, ARROWS AND TAPE OF EACH TYPE OF PIPE SYSTEM SHALL BE OF APPROPRIATE LEGEND AND BACKGROUND COLOR TO MEET ALL ANSI/OSHA/ASME STANDARDS. COMPLETE WITH DIRECTION ARROW. SELECT APPROPRIATE SIZE FOR O.D. OF PIPING INCLUDING INSULATION. CLEAN PIPE PRIOR TO INSTALLATION OF PIPE MARKERS. MARKERS OR ARROWS NOT WRAPPING THE FULL CIRCUMFERENCE OF THE PIPE SHALL BE TIE WRAPPED IN PLACE, OTHERWISE TAPED AT EACH END AROUND FULL CIRCUMFERENCE OF PIPE. PROVIDE MINIMUM 2-1/4" LETTERS THROUGH 4" PIPE AND 4" LETTERS FOR PIPING LARGER THAN 4". FOR EXTERIOR PIPING OR PIPING INSIDE MECHANICAL ROOMS, PROVIDE SNAP-AROUND PIPE MARKERS UP TO 4" PIPE AND STRAP-AROUND PIPE MARKERS FOR PIPING LARGER THAN 4". MANUFACTURER SHALL BE BRADY OR APPROVED EQUAL.

B. APPLY MARKERS AS FOLLOWS:
   1. AT INPUT AND OUTPUT OF EACH PIECE OF EQUIPMENT INSIDE BUILDING.
   2. AT EACH VALVE NOT IN A MECHANICAL ROOM.
   3. AT EVERY POINT A PIPE ENTERS OR EXITS A WALL OR FLOOR (BOTH SIDES OF WALL OR FLOOR).
   4. AT INTERVALS NOT EXCEEDING 20 FEET.
   5. ANY LOCATION WHERE VIEW IS OBSTRUCTED.

C. PIPE MARKERS AND ARROW MARKERS SHALL BE PROVIDED AS FOLLOWS:
   1. DOMESTIC COLD WATER
   2. DOMESTIC HOT WATER
   3. DOMESTIC HOT WATER RETURN
   4. SANITARY WASTE
   5. SANITARY VENT
   6. FIRE SPRINKLER PIPING

D. EQUIPMENT MARKING

GENERAL: EACH PIECE OF PLUMBING EQUIPMENT SHALL BE SUITABLY MARKED WITH THE NAME AS LISTED ON THE PLANS. NAME SHALL BE PROMINENTLY DISPLAYED SO IT MAY BE EASILY LOCATED AND READ AFTER EQUIPMENT INSTALLATION. PUMPS MAY BE MARKED ON ADJACENT PIPING.

1. THE FOLLOWING EQUIPMENT SHALL BE MARKED WITH LAMACOID NAMEPLATE, 2" HIGH LETTERS:

   WATER HEATERS

2. THE FOLLOWING EQUIPMENT SHALL BE MARKED WITH LAMINATED ENGRAVED PLASTIC NAMEPLATE WITH 1.25" HIGH LETTERS, FASTENED WITH EPOXY OR SCREWS:

   CIRCULATOR PUMPS

3. VALVE MARKING

   EACH VALVE, EXCEPT THOSE LOCATED ADJACENT TO THE EQUIPMENT THEY SERVE, SHALL HAVE A TAG OF HEAVY- GAUGE 1½" DIAMETER BRASS, STAMPED AND ENGRAVED IN BLACK WITH THE VALVE NUMBER AND SERVICE SYMBOL. ATTACH TAG TO THE VALVE HANDLE WITH A CHAIN OF SIMILAR GAUGE AND MATERIAL.

EXCAVATING BACKFILL & GRADING

A. THE CONTRACTOR SHALL MAKE ALL NECESSARY EXCAVATIONS, CUTTING PAVING, CONCRETE, ETC., AND DO ALL BACKFILLING AND TEMPORARY PATCH TYPE PAVING REPAIRS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. REMOVE ALL DIRT AND DEBRIS OUT AND AWAY FROM THE BUILDING AS DIRECTED.
B. BACKFILL SHALL BE COMPACTED AND REPAIRS TO PAVING OR CONCRETE SHALL BE ACCOMPLISHED TO THE SATISFACTION OF THE ARCHITECT AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
C. ALL UNDERGROUND PIPES SHALL BE LAID OPEN IN TRENCH. ALL FIELD MEASUREMENTS, LAYOUTS, GRADE ESTABLISHMENTS, ETC., SHALL BE SURVEYED BY THE CONTRACTOR. THE ARCHITECT WILL PROVIDED A BENCHMARK REFERENCE FOR USE BY THE CONTRACTOR.
D. PIPES SHALL BE LAID AND MAINTAINED AT REQUIRED LINES AND GRADES. ALL JOINTS SHALL BE ALIGNED AND COMPLETE.
E. THE TRENCH SHALL BE EXCAVATED TO ALIGNMENT AND DEPTH AS REQUIRED. TRENCH SHALL BE PROPERLY BRACED AND DE-WATERED.
F. THE TRENCH SHALL BE AT LEAST 18" WIDER THAN THE DIAMETER OF THE LARGEST BELL ON THE PIPE. IF THE PIPE HAS NO BELLS, THE TRENCH SHALL BE AT LEAST 18" WIDER THAN THE MAXIMUM DIAMETER OF THE PIPE. PIPE SHALL BE LAID IN THE CENTER OF THE TRENCH. THE TRENCH SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO PROVIDE FOR PIPE CUSHIONS.
G. TRENCHING MAY BE DONE WITH TRENCH DIGGING MACHINERY UNLESS HAND DIGGING IS REQUIRED TO AVOID DAMAGE TO EXISTING STRUCTURES OR APPARATUS BOTH ABOVE AND BELOW GRADE.
H. UPON COMPLETION OF EXCAVATION AND PRIOR TO LAYING OF THE PIPE, THE TRENCH BOTTOM SHALL BE BROUGHT UP TO THE REQUIRED ELEVATION WITH A PIPE CUSHION, EXCEPT WHERE THE CUSHION HAS BEEN ELIMINATED BY THE ARCHITECT. PIPE CUSHIONS SHALL BE SELECTED MATERIAL DEPOSITED IN THE TRENCH, AND SHALL BE COMPACTED, LEVELED OFF, AND SHAPED TO OBTAIN A SMOOTH COMPACTED BED ALONG THE LAYING OF THE PIPE. PIPE CUSHION MATERIAL FOR SANITARY SEWER AND DOMESTIC WATER PIPES SHALL COMPLY WITH LOCAL CODES.
I. TRENCHES SHALL BE BACKFILLED ONLY AFTER PIPING HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT. ALL BACKFILL MATERIAL SHALL BE PLACED IN THE TRENCH EITHER BY HAND OR BY APPROVED MECHANICAL METHODS. THE COMPACTION OF BACKFILL MATERIAL SHALL BE ACCOMPANIED BY TAMPING WITH HAND TOOLS OR APPROVED PNEUMATIC TAMPERS, BY USING VIBRATORY COMPACTORS, OR BY ANY COMBINATION OF THESE. BACKFILL COMPLETELY AROUND PIPE, INCLUDING 18" ABOVE THE PIPE, WITH SUITABLE SILICA SAND, TAMPED IN 6" LAYERS UNDER, AROUND, AND OVER THE PIPE. THE REMAINDER OF THE BACKFILL FOR ALL PIPES SHALL BE SELECT BACKFILL MATERIAL TAMPED AT INTERVALS OF NO MORE THAN 12" DEPTHS, TO ATTAIN PROCTOR COMPACTION DENSITY REQUIRED. MATERIAL USED IN THE UPPER PORTION OF THE BACKFILL OR SUB-GRADE SHALL NOT CONTAIN STONE, ROCK, OR OTHER MATERIAL LARGER THAN SIX INCHES IN ITS LONGEST DIMENSION. NO WOOD, VEGETABLE MATTER, OR OTHER MATERIAL, WHICH IN THE OPINION OF THE ARCHITECT OR GEO-TECHNICAL CONSULTANT, IS UNSUITABLE SHALL BE INCLUDED IN THE BACKFILL. BACKFILL SHALL BE BROUGHT UP TO FINISH GRADE IDENTIFIED ON THE ARCHITECTURAL DRAWINGS, INCLUDE ADDITIONAL BACKFILL REQUIRED TO OFFSET SETTLEMENT DURING CONSOLIDATION.
J. ALL PIPING SHALL BE CAREFULLY INSTALLED SO AS TO ELIMINATE TRAPS AND POCKETS IN PRESSURIZED LINES AND TO MAINTAIN FLOW IN GRAVITY FLOW LINES. THE CONTRACTOR SHALL CONSIDER PIPE GRADING REQUIREMENTS WHEN COORDINATING PIPE ROUTING FOR THE PROJECT. PIPE SLOPE SHALL BE MAINTAINED THROUGHOUT THE PROJECT. WASTE AND VENT PIPING SHALL BE SLOPED IN ACCORDANCE WITH APPLICABLE CODES. PRESSURIZED SYSTEMS SHALL BE GRADED 1/16" PER 10 LINEAL FOOT OF HORIZONTAL RUN TO AIR VENT LOCATIONS AND DOWN 1/16" PER 10 LINEAL FEET OF HORIZONTAL RUN TO DRAIN LOCATIONS.

DRAINS AND CLEANOUTS

A. FURNISH AND INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY LOCAL ORDINANCE. CLEANOUTS SHALL BE MANUFACTURED BY JAY R. SMITH, JOSAM, JONESPEC, WADE, OR ZURN UNLESS NOTED OTHERWISE.
B. CLEANOUTS SHALL BE THE SAME NOMINAL SIZE AS THE PIPE THEY SERVE UP TO FOUR INCHES.
C. CLEANOUTS SHALL HAVE A CAST IRON BODY WITH TAPERED CAST BRASS OR BRONZE PLUG PROVIDING GAS AND WATERTIGHT SEAL.
D. INTERIOR FLOOR CLEANOUTS SHALL HAVE STAINLESS STEEL OR NICKEL BRONZE SCORIATED TOP. PROVIDE CARPET MARKER WHEN INSTALLED IN AREAS TO BE COVERED BY CARPET.
E. EXTERIOR CLEANOUTS AT GRADE SHALL HAVE SCORIATED CAST IRON TOP.
F. WALL CLEANOUTS SHALL BE PROVIDED WITH STAINLESS STEEL ACCESS COVERS OF ADEQUATE SIZE TO ALLOW ROOTING OF DRAINAGE SYSTEM. WALL CLEANOUTS INCORPORATING COVER SCREWS THAT EXTEND COMPLETELY THROUGH THE ACCESS PLUG ARE NOT ACCEPTABLE.
G. SET TOP OF FLOOR DRAINS AND FLOOR SINKS TO MEET THE LOW POINT ELEVATION OF FINISHED FLOOR.
H. FINAL MOUNTING OF INTERIOR CLEANOUT TOP OR ACCESS COVER SHALL BE SET FLUSH WITH THE FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL.
I. ENCASE EXTERIOR CLEANOUTS WITHIN 14"X14"X6" THICK REINFORCED CONCRETE PAD. SET TOP FLUSH WITH FINISHED GRADE SURFACE.
J. LOCATE CLEANOUTS WITH REQUIRED CLEARANCE FOR RODDING OF DRAINAGE SYSTEM.
K. ROUND WALL CLEANOUT COVERS SHALL NOT BE LARGER THAN REQUIRED FOR 4 INCH DIA. PIPE. ACCESS PANELS SHALL BE PROVIDED AS APPROVED BY ARCHITECT/ENGINEER FOR LARGER PIPE SIZES.

PIPING INSULATION

A. DOMESTIC WATER (HOT AND HOT WATER RETURN) PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1" WALL THICKNESS MINERAL-FIBER, PREFORMED PIPE INSULATION , WITH A K FACTOR NOT TO EXCEED 0.23 BTU"INHR*SF*DEGREE F @ 75 DEGREES F, HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD. THE INSULATION SHALL INCLUDE AN ALL PURPOSE JACKET, CONSISTING OF HIGH DENSITY, WHITE KRAFT BONDED TO ALUMINUM FOIL AND REINFORCED WITH FIBERGLASS YARN. THE JACKET SHALL INCLUDE A LONGITUDINAL LAP WITH A PRESSURE SENSITIVE TAPE SEAL.
B. INSULATED PIPING SHALL NOT BE EXPOSED AT HANGER AND COME INTO DIRECT CONTACT WITH HANGER WITHOUT INSULATION AND SHIELD AS DESCRIBED BELOW.
C. PROVIDE PROTECTION SHIELDS AT ALL PIPE HANGERS. WHERE PROTECTION SHIELDS ARE USED, PROVIDE AN INSERT BETWEEN THE PIPING AND THE SHIELD 2" LONGER AND WIDER THAN THE SHIELD, HAVING THE SAME THICKNESS AND CONTOUR AS THE ADJOINING INSULATION. INSERTS SHALL BE MINIMUM 8.0# DENSITY, MINIMUM 100 PSI COMPRESSIVE STRENGTH.

D. ACCEPTABLE INSERT MATERIALS ARE:
   A. JOHNS MANVILLE; MICRO-LOK.
   B. KNAUF INSULATION; 1000-DEGREE PIPE INSULATION.
   C. OWENS CORNING; FIBERGLAS PIPE INSULATION.

E. CLOTH TAPE IS NOT ACCEPTABLE FOR USE IN THIS APPLICATION.

DOMESTIC WATER VALVES (COLD AND HOT WATER)

A. LINE-SHUT OFF VALVES UP TO AND INCLUDING 2" SHALL BE TWO PIECE BRONZE BODY OF ASTM B584 ALLOY 844, ASTM B61 OR ASTM B62, FULL PORT BALL TYPE RATED AT 600 WOG WITH THREADED CONNECTIONS, BLOW-OUT PROOF STEM, PLASTIC COATED LOCKABLE LEVER HANDLE, TEFLON PACKING, 316 STAINLESS STEEL BALL AND STEM. ACCEPTABLE VALVES ARE NIBCO MODEL T-585-70-66-LL-LF OR APPROVED EQUAL MODEL BY CRANE, MILWAUKEE OR APOLLO.
B. LINE SHUT-OFF VALVES 2-1/2" AND LARGER INSTALLED WITHIN SYSTEMS HAVING DESIGN OPERATING PRESSURES BETWEEN 160 AND 250 P.S.I.G. SHALL BE THREADED LUG TYPE DUCTILE IRON BODY BUTTERFLY VALVE WITH EXTENDED NECK, LOCKABLE LEVER HANDLE, 316 STAINLESS STEEL STEM AND DISC, EPDM LINER AND SEAL, SUITABLE FOR BI-DIRECTIONAL FLOW AND DEAD END SERVICE WITH DOWNSTREAM FLANGE REMOVED. ACCEPTABLE VALVES ARE NIBCO MODEL LD-3022, OR APPROVED EQUIVALENT MODEL BY KEYSTONE, JAMESBURY, DEZURIK, MILWAUKEE, CRANE OR APOLLO.
C. PROVIDE STEM EXTENSIONS OF A NON-THERMIAL CONDUCTING MATERIAL FOR VALVES IN INSULATED LINES TO ALLOW UNOBSTRUCTED OPERATION.
D. DOMESTIC HOT WATER RETURN CIRCUIT BALANCING VALVES 1/2" THROUGH 3" SHALL BE MACHINED BALL TYPE CALIBRATED BALANCING VALVE WITH LEAD FREE ASTM B283-C69300 BRASS BODY/304 STAINLESS STEEL BALL CONSTRUCTION, GLASS AND CARBON FILLED TFE SEAT RINGS, EPDM STEM "O" RING, THREADED NPT INLET/OUTLET CONNECTIONS, 400 PSIG MAXIMUM WORKING PRESSURE AT 250°F. VALVE SHALL HAVE DIFFERENTIAL PRESSURE READ-OUT PORTS ACROSS VALVE SEAT AREA FITTED WITH INTERNAL EPT INSERTS/CHECK VALVES. VALVE BODY SHALL HAVE 1/4" NPT TAPPED DRAIN/PURGE PORT. VALVE SHALL HAVE CALIBRATED NAMEPLATE AND MEMORY STOP FEATURE TO ALLOW VALVE TO BE CLOSED FOR SERVICE AND THEN REOPENED TO SET POINT WITHOUT DISTURBING BALANCE POSITION. VALVE SHALL CONTAIN LESS THAN 0.25% LEAD CONTENT BY WEIGHT ON WETTED SURFACES AND BE DESIGNED FOR POSITIVE SHUT-OFF.. VALVES SHALL BE SAME SIZE AS THE PIPE INSTALLED. PROVIDE VALVES AS SCHEDULED ON CONTRACT DRAWINGS MANUFACTURED BY BELL & GOSSETT CIRCUIT SETTER PLUS CB SERIES, OR OWNER APPROVED EQUAL.
E. SPRING LOADED CHECK VALVES, 2" AND SMALLER - SILENT CLOSING, BRONZE, CLASS 125, WITH THREADED CONNECTIONS, BUNA DISC, BRONZE OR STAINLESS STEEL SPRING MANUFACTURED BY NIBCO MODEL T-480 OR APPROVED EQUIVALENT MODEL BY MILWAUKEE OR CRANE.

PIPE HANGERS AND SUPPORTS

A. PROVIDE PIPE SUPPORTS AND GUIDES OF SIZE AND TYPE TO SUPPORT PIPE AS WELL AS LIMIT MOVEMENT. MINIMUM SIZE HANGER ROD SHALL BE 3/8". PIPING CONNECTED TO A PIECE OF EQUIPMENT SHALL HAVE A SUPPORT LOCATED NEAR ENOUGH TO THE EQUIPMENT THAT THERE WILL BE NO PIPE WEIGHT SUPPORTED BY THE EQUIPMENT. IN NO CASE SHALL THE NEAREST SUPPORT BE MORE THAN TWO FEET HORIZONTALLY FROM THE CONNECTION POINT. PIPE SUPPORT MATERIAL SHALL BE SELECTED TO BE COMPATIBLE WITH THE PIPE MATERIAL TO PREVENT GALVANIC CORROSION. UN-INSULATED COPPER PIPING SHALL BE WRAPPED WITH GAS WRAP TAPE AT EACH HANGER (MINIMUM 2" BEYOND HANGER). VERTICAL COPPER PIPING SHALL HAVE A MINIMUM ON ONE INTERMEDIATE SUPPORT IF OVER FIVE FEET.
B. SUPPORT PIPING NEAR ROOF OR UPPER FLOOR FROM STRUCTURE IF SUFFICIENT STRENGTH EXISTS. USE A METHOD SUITABLE FOR TYPE OF CONSTRUCTION AND OF SUFFICIENT STRENGTH. USE THREADED STEEL HANGER RODS OF DIAMETER REQUIRED TO SAFELY SUPPORT LOADS. MINIMUM SIZE HANGER ROD SHALL BE 3/8". INSTALL RODS THROUGH HOLES DRILLED IN BEAM FLANGES, 1½" X 1½" X 8" ANGLES WELDED TO STRUCTURAL MEMBERS OR TOP CORD SLOT AT JOIST PANEL POINTS AND SECURE WITH LARGE WASHERS AND NUTS. REFER TO STRUCTURAL DRAWING DETAILS FOR ADDITIONAL INFORMATION.

PLUMBING PIPING HANGERS

A. MAXIMUM SPACING BETWEEN PIPING HANGERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

SIZE OF PIPING	DISTANCE BETWEEN SUPPORTS:
COPPER	
1/2"	5'
3/4"	6'
1"	7'
1-1/4"	8'
1-1/2"	9'
2"	10'

B. HANGERS: MANUFACTURED BY ANVIL, GRINNELL OR TOLCO.

   a. SINGLE RUNS OF PIPE, NO EXPANSION PROBLEM: ADJUSTABLE CLEVIS TYPE GRINNELL FIGURE 260.
   b. MULTIPLE RUNS: TRAPEZE HANGERS.
   c. BEAM CLAMPS: GRINNELL FIGURE 92 FOR SMALLER PIPE.
   d. BEAM CLAMPS: GRINNELL FIGURE 228 (STORM OR SANITARY 8" AND LARGER).

C. PIPE SADDLES: INSTALL 18 GAUGE, FORMED GALVANIZED SHEETS AT EACH SUPPORT POINT FOR INSULATED PIPE, SHAPED TO FIT PIPE, AND COVERING BOTTOM HALF OF PIPE. LENGTH AT SADDLE SHALL BE NOT LESS THAN TWICE THE INSULATION OUTSIDE DIAMETER, 16" MINIMUM LENGTH. PROVIDE COMPRESSIBLE GASKETING BETWEEN NON-INSULATED PLASTIC PIPE AND HANGERS. PROVIDE INSULATING MATERIAL BETWEEN DISSIMILAR METALS

D. SUPPORT MATERIAL FINISH: GALVANIZED OR CADMIUM PLATED STEEL.

E. PLUMBING CHASE PIPING: PLUMBING PIPING LOCATED IN CHASES AND AT INDIVIDUAL FIXTURES NOT LOCATED AT CHASES SHALL BE RIGIDLY SUPPORTED AND ALIGNED USING THE SUMNER PIPE SUPPORT AND ALIGNMENT SYSTEM, HUBBARD HOLDRITE SYSTEM OR UNISTRUT WITH U-BOLTS AND PIPE CLIPS.

ACCESS DOORS

A. ACCESS DOORS SHALL BE PROVIDED FOR ACCESS TO VALVES OR ANY OTHER ITEM WHICH MAY REQUIRE SERVICING OR ADJUSTING AND WHICH IS CONCEALED BEHIND AN INACCESSIBLE SURFACE SUCH AS SPLINED CEILINGS AND PLASTER WALLS OR CEILINGS. ACCESS DOORS SHALL BE AS MANUFACTURED BY MILCOR OR AN APPROVED EQUAL FOR SPECIFIC APPLICATION.

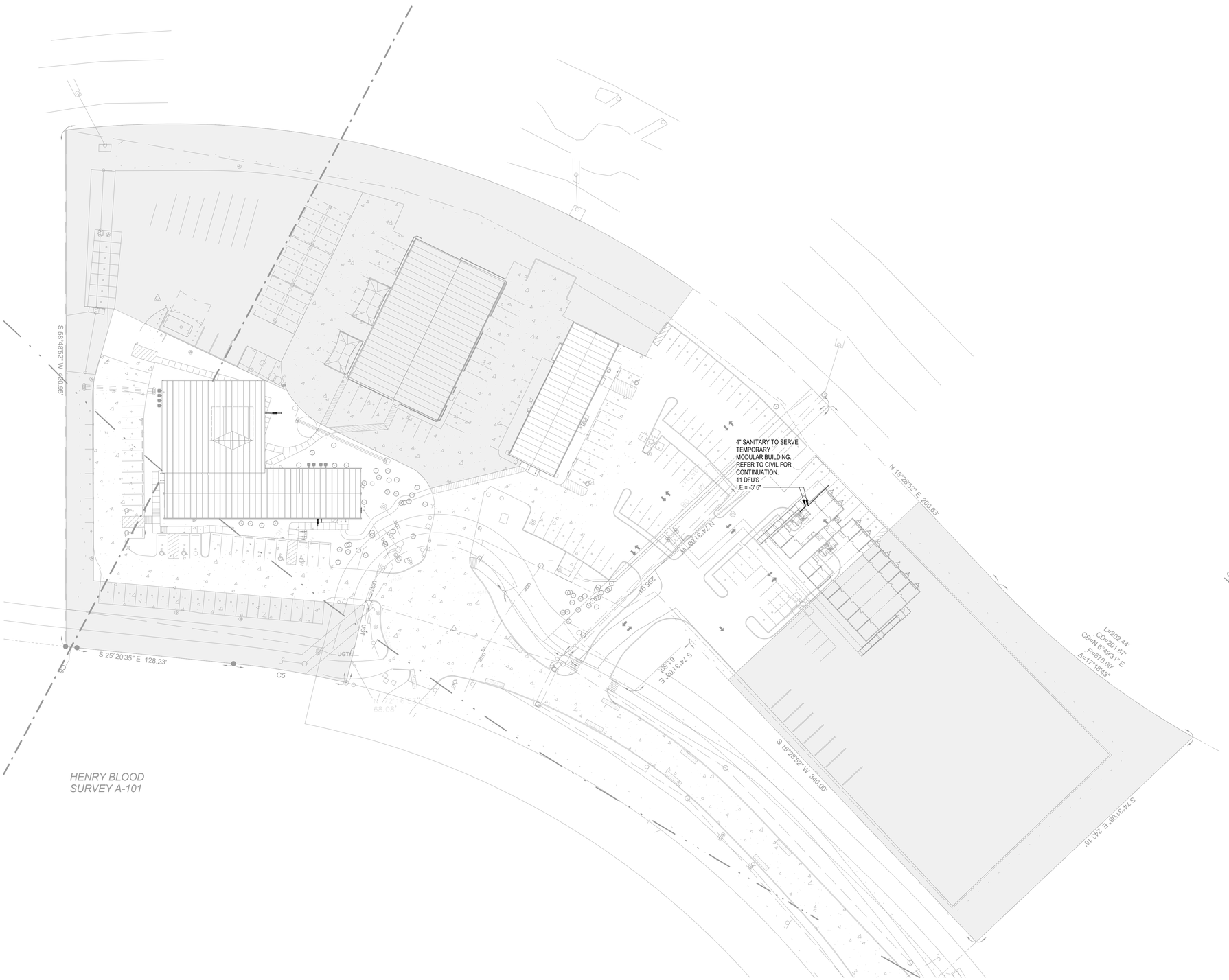
PLUMBING FIXTURES AND TRIM

A. THE FOLLOWING MANUFACTURERS WILL BE ACCEPTABLE:
   A. F

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PLUMBING SITE PLAN
1" = 40'-0"
1

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PLUMBING SITE PLAN

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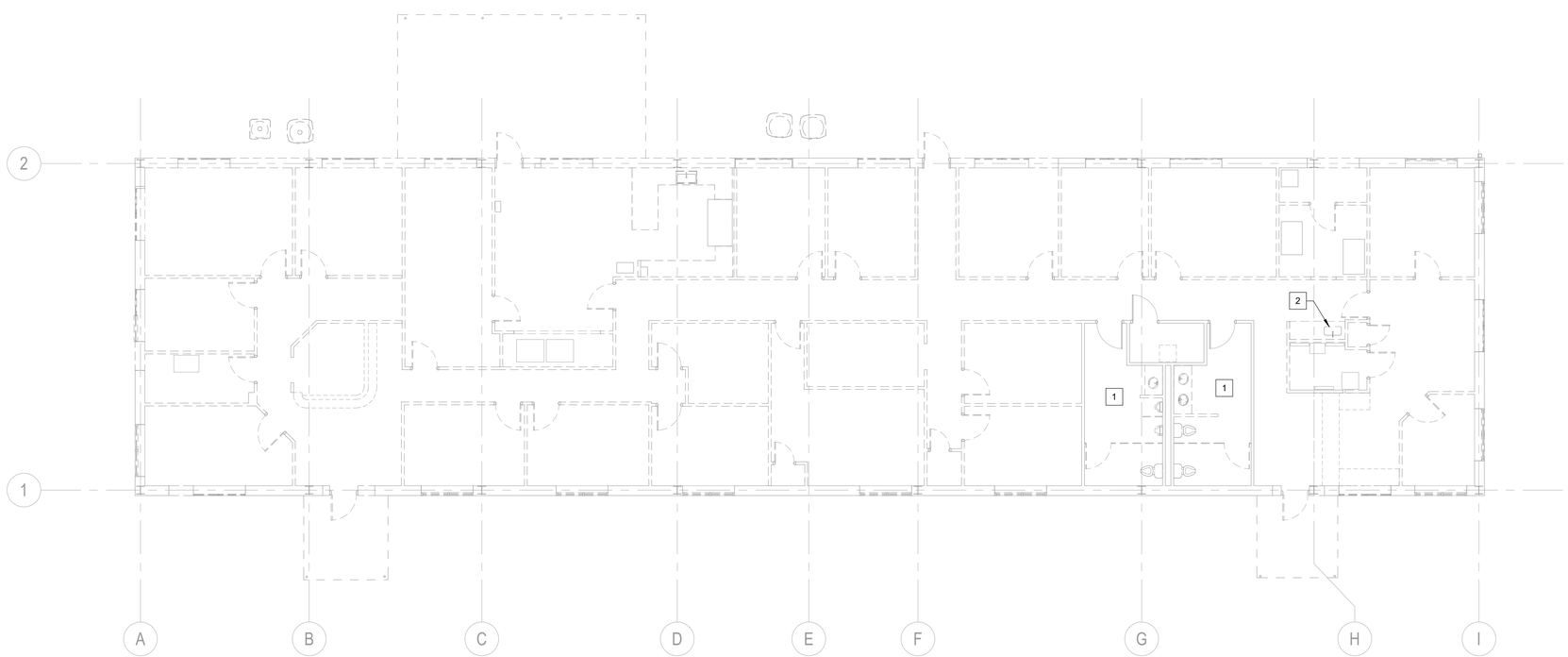
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XX INDICATES KEYED NOTE

KEYED NOTES

1 DEMOLISH EXISTING FIXTURES. ALL ASSOSIATED PIPING TO REMAIN FOR RECONNECT TO NEW PLUMBING FIXTURES.

2 DEMOLISH EXISTING FIXTURE AND ALL ASSOCIATED PIPING BACK TO MAIN.



PLUMBING DEMO FLOOR PLAN - BLDG A
1/8" = 1'-0"

1

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PLUMBING DEMO FLOOR PLAN - BLDG A

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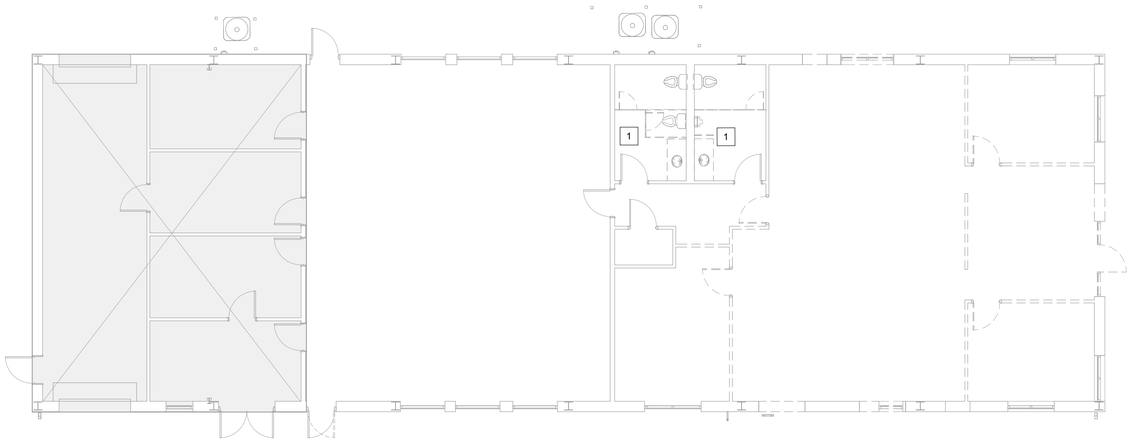
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KEYED NOTES

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PLUMBING DEMO FLOOR PLAN - BLDG B
1/8" = 1'-0"

1

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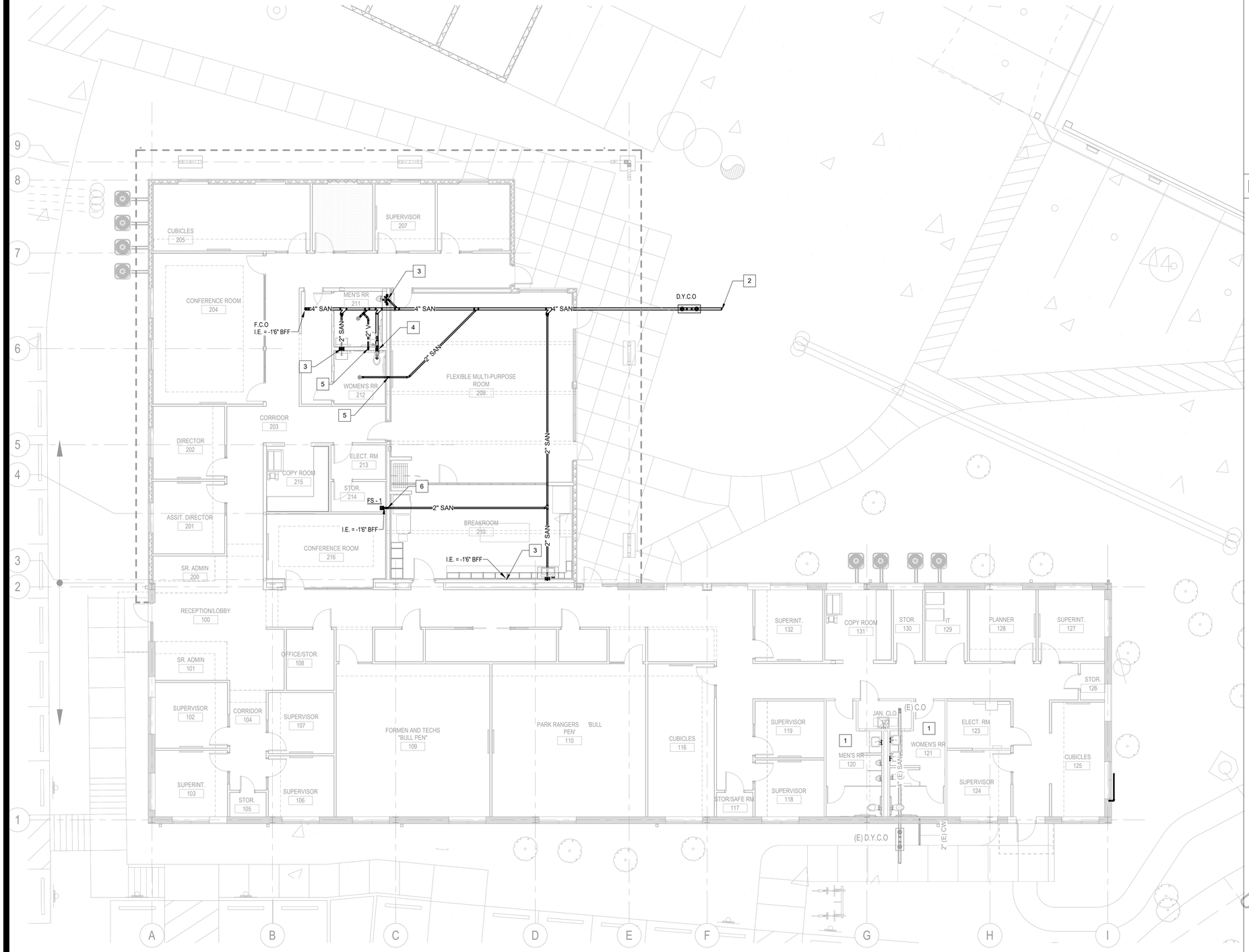
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PLUMBING DEMO FLOOR PLAN - BLDG B

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1. ALL PLUMBING FIXTURES IN THIS ROOM TO BE REPLACED. ALL PLUMBING PIPING TO BE EXISTING TO REMAIN.
2. 4" SANITARY WASTE LINE. REFER TO CIVIL FOR CONTINUATION. I.E. = -2'6" BFF.
3. 2" SAN WASTE DOWN, AND 2" VENT UP TO SERVE FIXTURE.
4. 4" SAN WASTE DOWN, AND 2" VENT UP TO SERVE FIXTURE.
5. 2" VENT UP FROM FLOOR DRAIN
6. 2" VENT UP FROM FLOOR SINK

PLUMBING UNDERFLOOR PLAN - BLDG A&C
1/8" = 1'-0"

1

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PLUMBING UNDERFLOOR PLAN - BLDG A&C

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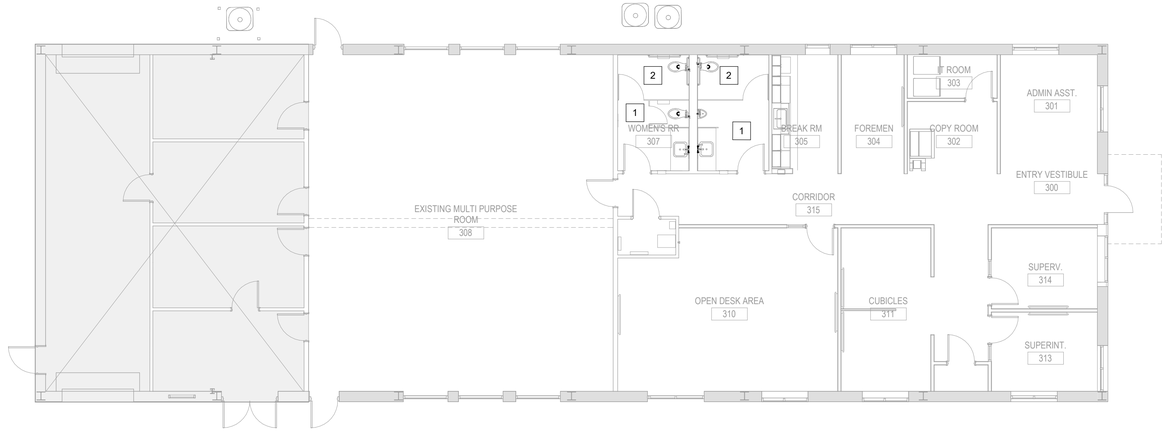
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KEYED NOTES

1 ALL PLUMBING FIXTURES AND PLUMBING PIPE IN THIS ROOM ARE EXISITING TO REMAIN.

2 CONNECT NEW WATER CLOSET PIPING TO EXISTING PLUMBING LINES IN THIS ROOM. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO INSTALLATION.



PLUMBING UNDERFLOOR PLAN - BLDG B
1/8" = 1'-0"

1

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PLUMBING UNDERFLOOR PLAN - BLDG B

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PLUMBING FLOOR PLAN - BLDG A&C
1/8" = 1'-0"
1

XX INDICATES KEYED NOTE

KEYED NOTES

1 ALL PLUMBING FIXTURES IN THIS ROOM TO BE REPLACED. ALL PLUMBING PIPING TO BE EXISTING TO REMAIN.

2 EXISTING GAS METER LOCATION, CONTRACTOR SHALL VERIFY GAS METER SIZE, LOCATION, AND INLET PRESSURE PRIOR TO CONSTRUCTION. METER SHALL BE SIZED FOR 500 CFH, CONTRACTOR TO COORDINATE WITH GAS UTILITY TO PROVIDE METER IF REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THIS WORK.

3 1/2" NATURAL GAS SUPPLY PIPING; PROVIDE SHUT OFF VALVE AND ROUTE TO EQUIPMENT. ELBOW UP FROM GAS LINE TO APPLIANCE. PROVIDE, ISOLATION VALVE AND CONNECTORS (DORMONT SAFETY QUICK CONNECT SHUT OFF VALVE, SWIVEL MAX CONNECTOR ACCESSORY, BLUE HOSE CONNECTOR AND SNAP FAST QUICK CONNECT COUPLING OR EQUAL) PROVIDE GAS PRESSURE REGULATOR IF REQUIRED, CONTRACOTR TO COORDINATED WITH MANUFACTURER RECOMMENDATIONS FOR FINAL EQUIPMENT CONNECTION

4 1-1/4" COLD WATER AND 2" VENT DOWN TO SERVE WATERCLOSET

5 3/4" COLD WATER DOWN TO SERVE LAVATORY, AND IWH-1.

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PLUMBING FLOOR PLAN - BLDG A&C

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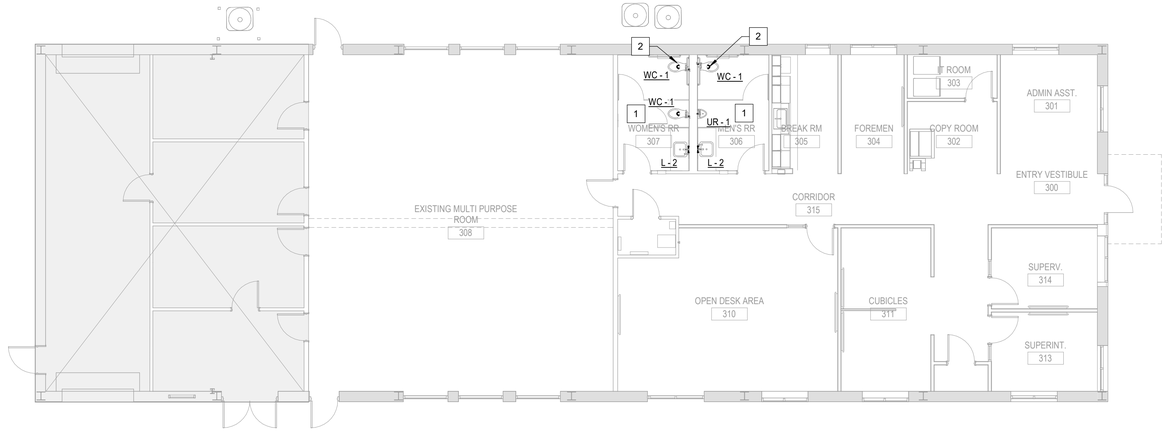
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KEYED NOTES

1 ALL PLUMBING FIXTURES IN THIS ROOM TO BE REPLACED. ALL PLUMBING PIPING TO BE EXISTING TO REMAIN.

2 CONNECT NEW WATER CLOSET PIPING TO EXISTING PLUMBING LINES IN THIS ROOM. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO INSTALLATION.



PLUMBING FLOOR PLAN - BLDG B
1/8" = 1'-0"

1

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PARD CAMPUS

8203 MILLENNIUM FOREST,
THE WOODLANDS, TX 77381

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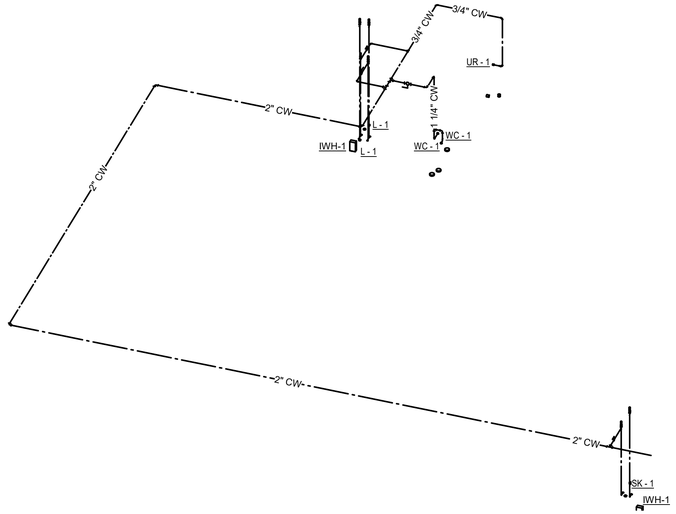
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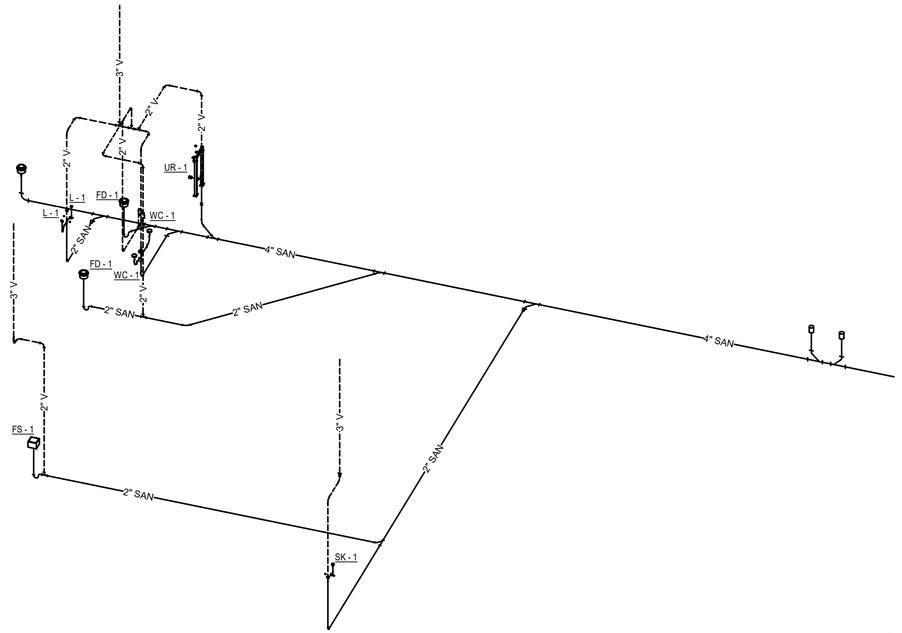
PLUMBING FLOOR PLAN - BLDG B

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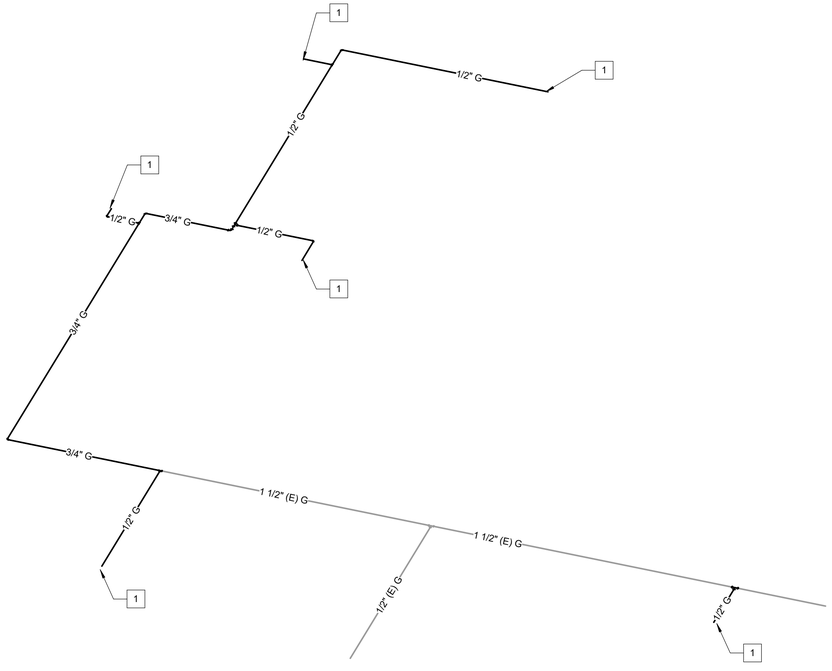
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DOMESTIC WATER RISER 2



SANITARY RISERS 1



GAS RISER 3

CITY STAMP APPROVAL

1 1/2" NATURAL GAS SUPPLY PIPING; PROVIDE SHUT OFF VALVE AND ROUTE TO EQUIPMENT. ELBOW UP FROM GAS LINE TO APPLIANCE. PROVIDE, ISOLATION VALVE AND CONNECTORS (DORMONT SAFETY QUICK CONNECT SHUT OFF VALVE, SWIVEL MAX CONNECTOR ACCESSORY, BLUE HOSE CONNECTOR AND SNAP FAST QUICK CONNECT COUPLING OR EQUAL). PROVIDE GAS PRESSURE REGULATOR IF REQUIRED, CONTRACOTR TO COORDINATED WITH MANUFACTURER RECOMMENDATIONS FOR FINAL EQUIPMENT CONNECTION

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PLUMBING RISER DIAGRAM

P7.01

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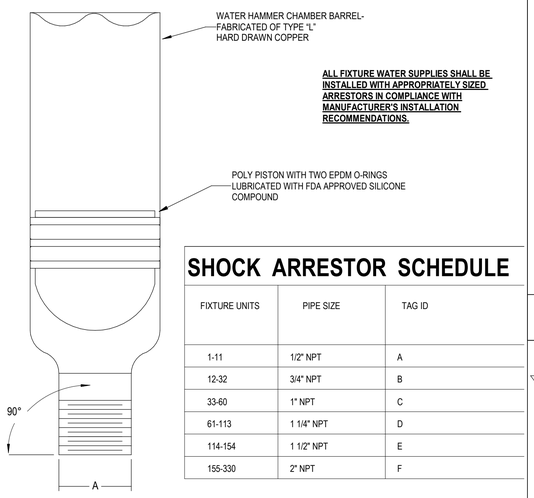
ELECTRIC WATER HEATER SCHEDULE

MARK	MODEL AND DESCRIPTION	KW	VOLTS/PHASE	REMARKS
IWH-1	EEMAX LAVADVANTAGE. SPEX4277T ML SET @110	4.1	277/1	EEMAX LAVADVANTAGE TANKLESS ELECTRIC WATER HEATER.

PLUMBING FIXTURE SCHEDULE

ID	ITEM	MANUFACTURER/ MODEL NO.	FIXTURE SERVICE	REMARKS
WC-1	WATER CLOSET FLOOR MOUNTED BARRIER-FREE	AMERICAN STANDARD MODEL NO. 3043.001 "MADERA" FLOWISE ELONGATED WALL FLOOR OUTLET, VITREOUS CHINA WATER CLOSET, 1.28 GALLON FLUSH HET, W/RIM @ 17" AFF. INCLUDES OPEN FRONT SEAT. FLUSH VALVE: SLOAN ROYAL MODEL 111-1.28 MANUAL FLUSH VALVE.	1-1/4" CW 4" WASTE 2" VENT	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. FLUSH HANDLE SHALL BE ON ACCESSIBLE SIDE OF TOILET ROOM OR STALL.
UR-1	URINAL WALL HUNG BARRIER-FREE	AMERICAN STANDARD #6590.001 WASHBROOK , 0.5 GPF VITREOUS CHINA URINAL. SLOAN FLUSH VALVE MODEL NO. 186-0.5 GPF WITH JAY R. SMITH #0614 OR AS REQUIRED.	3/4" CW 2" WASTE 2" VENT	REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT AND ADA REQUIREMENTS.
L-1	LAVATORY WALL HUNG BARRIER-FREE WRISTBLADE HANDLES GOOSENECK SPOUT	AMERICAN STANDARD MODEL NO. 0356.421 LUCERNE LAVATORY3 HOLE. CHICAGO FAUCET NO. 786-E2805-5ABCP 4" WRIST BLADE HANDLES WITH RIGID/SWING GOOSENECK SPOUT AND 0.5 GPM VANDAL PROOF NON-AERATING SPRAY. FURNISH W/JAY R. SMITH #0710 FLOOR-MOUNTED LAVATORY SUPPORT W/CONCEALED ARMS. TRIM: MCGUIRE #155WC GRID DRAIN W/1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 - 1-1/4" P-TRAP, #H-2165 SUPPLY STOPS. LEONARD #170-LF-BRKT POINT OF USE MIXING VALVE.	1/2" CW 1/2" HW 2" WASTE 2" VENT	PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
L-2	LAVATORY UNDERCOUNTER BARRIER-FREE WRISTBLADE HANDLES GOOSENECK SPOUT	AMERICAN STANDARD MODEL NO. 0495.221 OVALYN. CHICAGO FAUCET NO. 786-E2805-5ABCP 4" WRIST BLADE HANDLES WITH RIGID/SWING GOOSENECK SPOUT AND 0.5 GPM VANDAL PROOF NON-AERATING SPRAY. FURNISH W/JAY R. SMITH #0710 FLOOR-MOUNTED LAVATORY SUPPORT W/CONCEALED ARMS. TRIM: MCGUIRE #155WC GRID DRAIN W/1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 - 1 1/4" P-TRAP, #H-2165 SUPPLY STOPS. LEONARD #170-LF-BRKT POINT OF USE MIXING VALVE.	1/2" CW 1/2" HW 2" WASTE 2" VENT	PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
SK-1	SINGLE COMPARTMENT SINK GOOSENECK SPOUT WRISTBLADE HANDLES	ELKAY MODEL NO. LRAD252155, SINGLE COMP, SELF RIMMING STAINLESS STEEL SINK. CHICAGO FAUCET NO. 786-E2805-5ABCP 4" WRIST BLADE HANDLES WITH RIGID/SWING GOOSENECK SPOUT AND 0.5 GPM VANDAL PROOF NON-AERATING SPRAY. MCGUIRE NO. 152 GRID DRAIN WITH 1 1/2" TAILPIECE, WITH OFFSET #8089 P-TRAP, #H-2165 SUPPLY STOPS - 1 1/2" P-TRAP. LEONARD #170-LF-BRKT POINT OF USE MIXING VALVE.	1/2" CW 1/2" HW 2" WASTE 2" VENT	
RVB-1	RECESSED VALVE BOX	GUY GRAY MODEL BIM875AB LEAD FREE. PROVIDE WITH 1/2" FTP INLET X 1/4" O.D. OUTLET COMPRESSION ANGLE VALVE TUBE, CHROME PLATED SUPPLY STOP. PROVIDE CUNO #AP717 FILTER BRACKETED TO WALL.	1/2" CW	VERIFY MOUNTING HEIGHT OF BOX WITH ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATION OF WATER FILTER WITH ARCHITECT.
MS-1	MOP SINK FLOOR MOUNT	STERN-WILLIAMS MODEL NO. SSBC-1500. TERRAZZO, 24" X 24" X 12" HIGH, CORNARO FLOOR MOUNTED WITH TILING FLANGE ON THREE SIDES, INTEGRAL CAST BRASS DRAIN AND STAINLESS STEEL STRAINER. FURNISH NO. T-35 HOSE AND WALL HOOK, AND T-40 MOP HANGER. CHICAGO FAUCET NO. 897 FAUCET WITH VACUUM BREAKER AND WALL BRACE.	3/4" CW 3/4" HW 3" WASTE 2" VENT	STAINLESS STEEL CAP AND 3 INCH CHROME DRAIN, 24X24X12 INCHES, MOUNT VACUUM BREAKER 7 FT. 6 INCHES A.F.F.

CITY STAMP APPROVAL



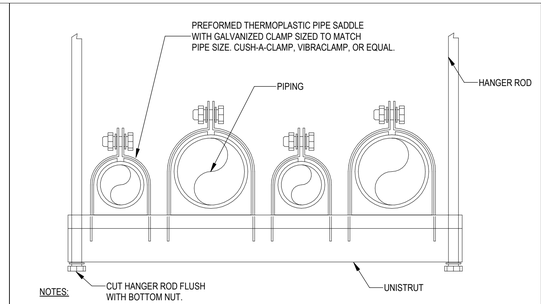
SHOCK ARRESTOR SCHEDULE

FIXTURE UNITS	PIPE SIZE	TAG ID
1-11	1/2" NPT	A
12-32	3/4" NPT	B
33-60	1" NPT	C
61-113	1 1/4" NPT	D
114-154	1 1/2" NPT	E
155-330	2" NPT	F

NOTES:

1. ARRESTORS SHOULD ALWAYS BE INSTALLED SO THAT THERE IS AN UNOBSTRUCTED SHOCK PATH TO THE ARRESTOR. DOING OTHERWISE COULD RESULT IN SHAKE AND RATTLE OF THE PIPES WHEN THE VALVE IS CLOSED.
2. FLUSH LINE PRIOR TO INSTALLATION.
3. ONLY USE TEFLON TAPE TO SEAL THE PIPE THREAD.
4. TO TIGHTEN PLACE WRENCH ON HEX ONLY.
5. FOR BEST RESULTS LOCATE ARRESTOR AS CLOSE TO THE QUICK CLOSING VALVE AS POSSIBLE.
6. EITHER A VERTICAL OR HORIZONTAL INSTALL IS ACCEPTABLE

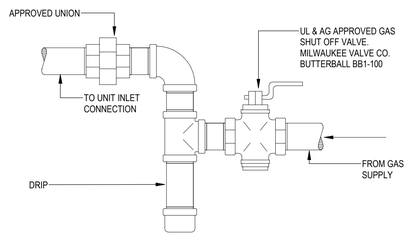
WATER HAMMER ARRESTOR DETAIL 7



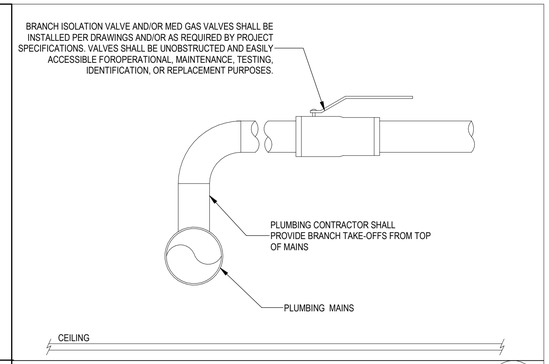
NOTES:

1. THIS DETAIL APPLIES TO UNINSULATED COPPER PIPING ONLY. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
2. ALL UNISTRUT AND HARDWARE SHALL BE GALVANIZED. REFER TO SPECIFICATIONS.
3. SPACING OF HANGERS PER SPEFICATIONS.

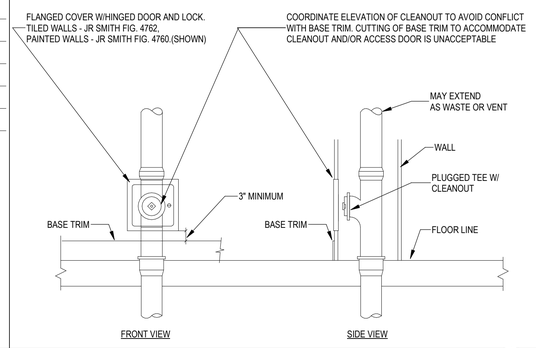
MULTIPLE PIPE HANGER 6



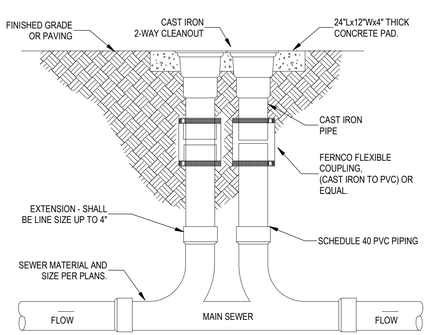
GAS CONNECTION W/ DIRT LEG 4



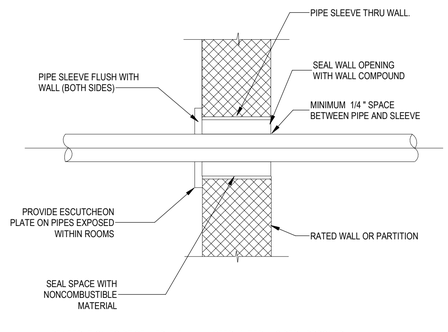
PIPING BRANCH TAKE-OFF 2



WALL CLEAN-OUT 5



DOUBLE CLEAN-OUT TO GRADE 3



PENETRATION TO BE SEALED WITH U.L. LISTED MATERIALS PER APPROVED U.L.

RATED WALL PIPE SLEEVE 1

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PLUMBING SCHEDULES & DETAILS

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