Preliminary Consultation
MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION
STAFF REPORT

Address:	12450 Old Columbia Pike, Silver Spring	**Meeting Date:**	6/11/2025
Resource:	Master Plan Site #34/10 **Conley House/Green Ridge**	**Report Date:**	6/4/2025
Project Contact:	German Pineda Philip Lacy, Architect	**Public Notice:**	5/18/2025
Review:	Preliminary Consultation	**Staff:**	Dan Bruechert
Proposal:	Building demolition, building construction, associated grading, tree removal, and hardscaping		

STAFF RECOMMENDATION

Staff recommends the applicant make any revisions recommended by the HPC and return for a second Preliminary Consolation.

ARCHITECTURAL DESCRIPTION

SIGNIFICANCE: Individually Listed Master Plan Site, *Conley House/Green Ridge #34/10*
STYLE: Neoclassical
DATE: c.1902

From *Places from the Past:*
"The large and elegant Conley House is an architectural statement of unusual urbanity and wealth in this community and era. A massive pedimented portico supported by Tuscan columns distinguishes the Neoclassical style residence. The center bay of the five bay front façade has a Palladian-influenced doorway on the first level echoed by a three-part window on the second. Irish immigrant Thomas Y. Conley first established the farm in the 1830s, upon retiring from a Washington, D.C. dry goods store. Conley served in the State House of Delegates in the 1860s. Under the ownership of his grandson Edgar T. Conley, the farm reached its height in the 1920s, encompassing more than 600 acres. Following a stellar military career in which he rose to the rank of major general and received a Silver Star for his actions in the Spanish-American War, Edgar Conley retired to Green Ridge. Family members recall the traditional farming techniques used by Conley who denied use of modern machinery on his farm. The farmstead includes a stone springhouse and a stone gashouse."

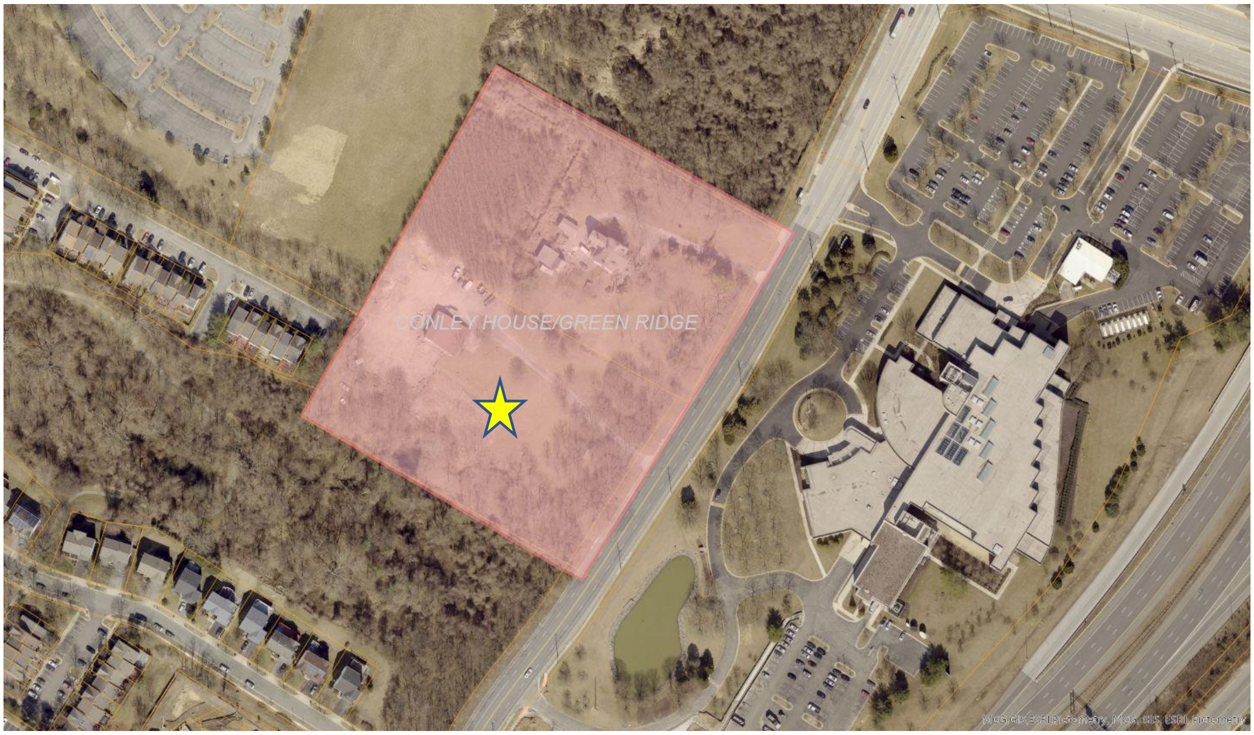

Figure 1: The subject property is located within the environmental setting of the Conley House/Green Ridge.

PROPOSAL

The applicant proposes to develop the site including demolishing the existing buildings, constructing a church, and paving and regrading.

APPLICABLE GUIDELINES

Proposed alterations to individual Master Plan Sites are reviewed under Montgomery County Code Chapter 24A (*Chapter 24A*) and the *Secretary of the Interior's Standards for Rehabilitation*. Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.

Montgomery County Code; Chapter 24A-8

(b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:

(1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

(2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

(3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or

(4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or

(5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship.

Secretary of Interior's Standards for Rehabilitation

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

STAFF DISCUSSION

Background

The applicant purchased the subject property in 2008, when a portion of the Conley Master Plan site was sold by the Conley family, who retain ownership of the property that still contains the Conley House/Green Ridge. The subject property is classified as 'vacant,' though there is one large structure to the rear of the property and smaller vacant structures. Slightly more than half of the subject property has a forest conservation easement on it and is unbuildable (see *Figure 2*, below).

In May of 2022, the Planning Board approved a Preliminary Plan at the subject property, finding the proposal substantially conformed with the Fairlands Master Plan and that there were adequate public facilities to accommodate the proposed 270-seat religious assembly use and associated parking.[1] The Preliminary Plan approval also cited the proposed building was at the "greatest distance feasible from the historic structure" and that due to the site topography the proposed structure is situated at a lower topography than the historic building, further reducing its visual impact.

The applicant proposes to demolish the existing structures on site, regrade and pave a large portion of the buildable area, and construct a church. In 1999, the HPC declined to reduce the environmental setting of the Conley House/Green Ridge Master Plan site when they evaluated a proposal to redevelop the area to the rear of the historic house and the land that now comprises the subject property, and a third lot to the north to create a school campus

Staff requests feedback from the HPC regarding the appropriateness of the applicants' development scheme, the design of the church, and any other recommendations or revisions.

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[1] A Preliminary Plan shows how a property will be subdivided and determines whether the existing transportation and school networks can handle the intensity and types of uses proposed. The Planning Board Resolution approving the Preliminary Plan is available here: https://eplans.montgomeryplanning.org/UFS/32035/92677/30-PBRESandMailingList-120210020.pdf/30-PBRESandMailingList-120210020.pdf.

Figure 2: The subject property (outlined in red) is located to the south of the Conley House (circled in yellow).

Building Demolition

Staff has identified four buildings on the site, only one of which appears to be historic. Unfortunately, records for the site identified several outbuildings by name, but did not key their location to the site. The applicant is proposing to demolish these four (4) buildings.

Upon entering the site from Old Columbia Pike, there is a small frame building with vertical composite siding on a poured concrete foundation. This building is inside the forest conservation easement. Plans do not indicate that any work is planned for this building. Based on the design and materials of this building (see the attached photographs), Staff does not find this building is historically significant. The 2023 Forest Conservation Plan Amendment shows the building is to be removed, however, the application materials propose no work for that building at this time. Should the applicant wish to undertake any work on this building, the work would require a HAWP and approval from the Planning Director (or his designated representative), to comply with the requirements of the easement, before beginning that work.

Along the north property boundary there is a small stone building with a front gable roof and asphalt shingles, and a dirt floor. The building was most recently used for storage and has no door. Staff has not identified the purposes of this building but notes it has been maintained evidenced by the exterior and interior repointing and plywood sheathing. This building is not shown on hand drawn 1996 National

Register site plan; but appears to Staff to be historic. The Maryland Inventory of Historic Properties (MIHP) form states that there is a stone springhouse and a stone gashouse on the property. The 2020 NRI/FSD site plan refers to this building as a "well house". The letter accompanying the applicant's Preliminary Consultation submission states that depending on parking allocation, the building "may or may not be kept, or restored on the site." The Forest Conservation Plan Amendment, submitted to the Planning Board in 2023 notes "Ex Bldg. (T.B.R.)" – to be removed. However, it was also made clear at the Planning Board that all alterations to the property require Historic Area Work Permit approval by the HPC; a note on the Forest Conservation Plan Amendment does not supersede or replace the HPC's authority over alterations or demolitions.

Figure 3: Stone building along the existing fence line.

As the burden of persuasion that the proposed work is appropriate is on the applicant, Staff finds that the stone building must be retained as part of any redevelopment scheme. If the applicant can provide additional information to demonstrate this building is not historic, Staff would reevaluate its recommendation. Staff additionally notes that the property boundaries shown on the county's GIS system do not line up with the existing fence line and requests clarification from the applicant as to the accurate location of the property line. The applicant is on notice that the utmost care must be given to the removal of any trees adjacent to the building and that it should be stabilized immediately and prior to the issuance of any other permits for the development of the site.

Figure 4: Undated file photograph showing the Conley House and the small stone structure.

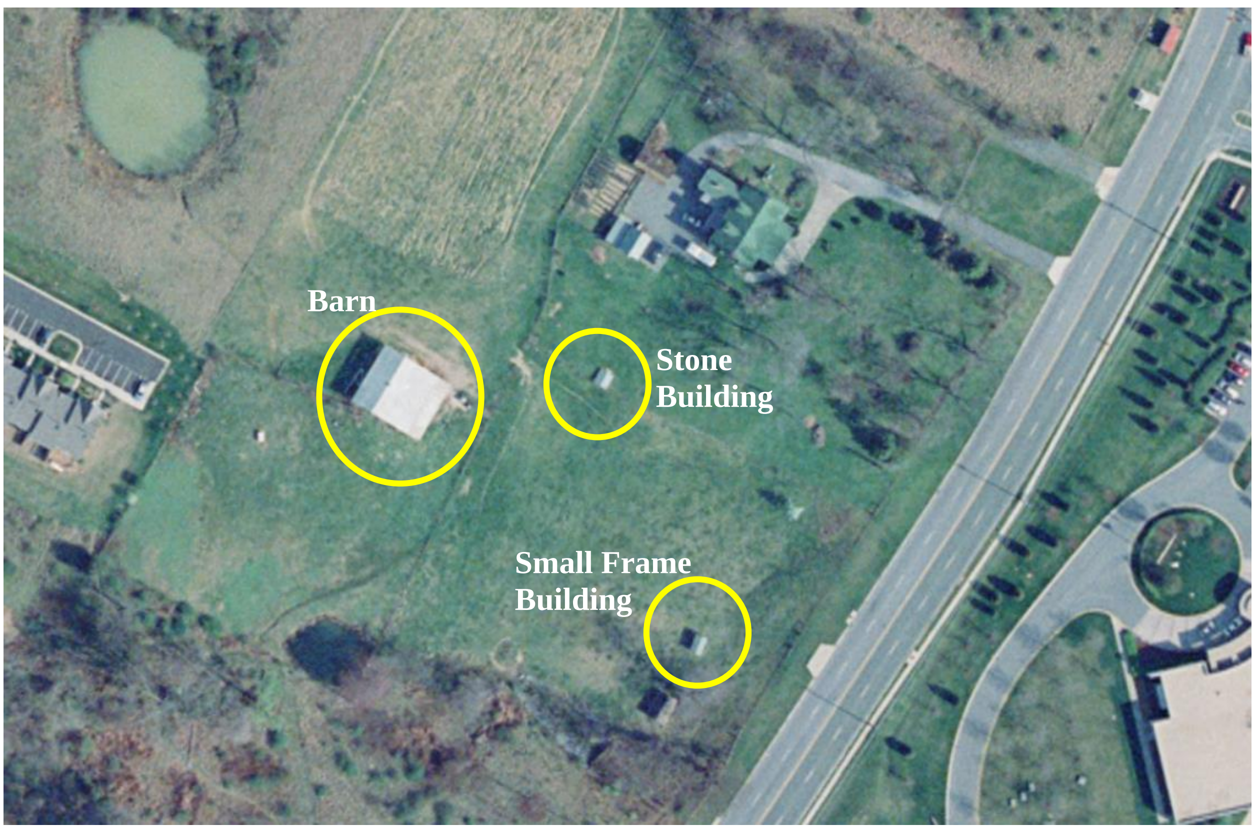


Figure 5: Three of the existing buildings on the subject property are visible in this 1998 aerial.

The third building on site is a large barn-like building located in the approximate location for the proposed church (discussed below). Aerial photographs of the site show that it was constructed sometime between 1951 and 1979. When it was first constructed, this building likely served an agricultural purpose. Staff finds the building has been substantially modified, including an addition to the south side of the building and notes that its construction is outside the period of significance identified in its National Register designation (1910-1946). Staff finds this building does not contribute to the historic character of the site and would support its demolition as a HAWP.

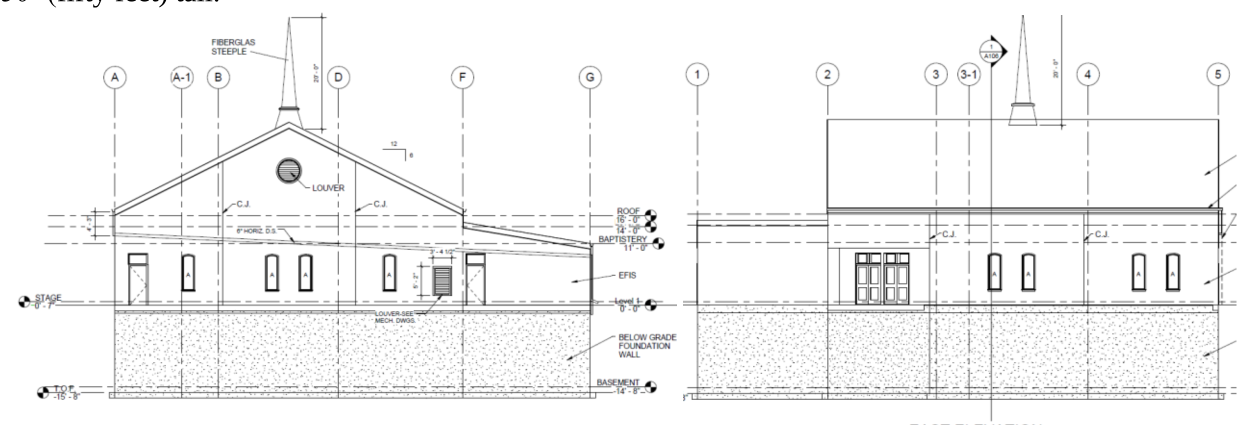
The final building site is a small, prefabricated shed located to the south of the large barn-like building. This shed has a gambrel roof, and T1-11 siding. Staff finds this building is not historic and was likely installed in the last two decades. Staff would support its removal in a HAWP application.

Staff Requests feedback from the HPC on the following issues:

- Does the HPC concur that demolition of the historic stone building is not permitted?
- Does the HPC concur with Staff's finding that the other three buildings are not historic and may be demolished pending an approved HAWP (and any other required approvals)?
- What other information about the existing buildings does the HPC require to make a final determination?

Church Building Construction

In the approximate location of the large barn-like building, the applicant proposes to construct a church. The proposed church is approximately 69' × 62' (sixty-nine feet wide by sixty-two feet deep) with a 23' × 92' (twenty-three feet wide by ninety-two feet deep) shed roof bump out that includes offices, bathrooms, two sets of stairs, and an elevator. The church has virtually no ornamentation, save the proposed 20' (twenty foot) tall fiberglass steeple in the middle of the roof and a circular metal louver in the gable end of the north elevation. Materials identified on the submitted plans include metal roofing, EIFS walls, fixed aluminum windows, metal exterior doors, and metal louvers. However, the specifications and finishes for these materials were not supplied with the submitted application materials. The height of the church was not provided; however, Staff estimates that the roof ridge will be approximately 30' (thirty feet) with a 20' (twenty foot tall) steeple above the roof ridge, resulting in a building that is approximately 50' (fifty feet) tall.



NORTH ELEVATION

EAST ELEVATION

The applicant selected this location for the proposed church, because it is the only area on site large enough to accommodate a structure of this size. The buildable envelope, restricted by the forest conservation easement, significantly limits where any construction can occur (see *Figure 2*, above). The north corner of the lot is the only flat area on the property and constructing the building anywhere else on the property would require substantially more re-grading on site than what is already proposed. The church will be approximately 250' (two hundred fifty feet) from the southwest corner of the Conley House and more than 350' (three hundred fifty feet) from Old Columbia Pike.

Staff finds the proposed placement of the church will not have a substantial impact on the visual character of the historic Conley House. The Conley House sits on a ridge, that is approximately 15' – 20' (fifteen to twenty feet) higher in elevation than the proposed church; and is nearly 100' (one hundred feet) closer to Old Columbia Pike than the proposed church location; preserving the existing vistas of the Conley House.

Staff finds that it cannot effectively evaluate the appropriateness of the proposed building's size based on the information provided. The submitted materials only show the proposed church building and Conley House in plan, but did not provide materials that allow Staff to compare the massing or height of the proposed construction to the existing historic. Based on Staff's measurements utilizing the county's GIS system, the existing barn-like building has a footprint that is nearly 3000 ft^2 (three thousand square feet), and the proposed church building's footprint is nearly 6500 ft^2 (six thousand five hundred square feet). Staff's rough measurements of the Conley House show that the historic house has a footprint of approximately 2500 ft^2 (two thousand five hundred square feet) including the front porch and rear addition. In most farm settings, the footprint of barns are larger than the farmhouse, even for grand-scale farmhouses like the Conley House. Staff finds that the comparison of the buildings' massing is more important in determining compatibility and that more information is needed. Staff requests feedback from the HPC on the best way to present that information. That information could best be shown 3-D renderings of the proposed site and the Conley House or an elevation from Old Columbia Pike that includes the massing and grade changes proposed.

Next, Staff considers the proposed building's height. It appears that the roof ridge will be approximately 30' (thirty feet) tall with a 20' (twenty foot) tall steeple above, making the total building height 50' (fifty feet) from grade. The primary consideration for the HPC is the overall compatibility of the proposal, however, as with the footprint, the plans submitted are in isolation and do not include sufficient context to make a complete evaluation. Staff notes that the two-and-a-half story Conley House sits on a ridge approximately 15' – 20' (fifteen to twenty feet) above the location of the proposed church, so it is possible the churches' overall height may not visually compete with the historic house. If this property were in a historic district, the HPC would ask for a streetscape study to provide a local context to evaluate the compatibility of a proposal. Here, Staff finds that the site plan that includes topographical lines of both the proposed church property and the Conley House is helpful, however, without building heights, any thorough evaluation of the impact is impossible. Staff finds that the height of both the church and the Conley House from grade need to be included with the next Preliminary Consultation submission.

Staff finds that most of the identified materials do not provide sufficient specifications to provide extensive feedback. However, Staff does not find the use of EIFS to be an appropriate finish for any building with the environmental setting of the Conley House. The material's stucco-like finish is inconsistent with the traditional materials used in constructing this turn of the century house. Staff recommends the applicant consider alternative siding materials like wood, stone, or brick. Staff would consider fiber cement clapboards, as their painted appearance has a finish that is generally consistent with painted wood siding. Staff finds that a metal roof, depending on the details could be appropriate within the site, but that material specifications are necessary to make that determination. Staff recommends a standing seam metal roof with the seams spaced approximately 18" – 24" (eighteen to twenty-four inches) with the seams approximately 2" (two inches tall). Additionally, any cap over the roof ridge cannot stand proud of the seams. Staff finds that metal exterior doors could be appropriate, but that the information provided does not provide enough information to evaluate their design, appearance, or finish. Staff finds the single-light aluminum windows are out of character with the site and should be converted to a multi-light configuration. Additionally, the treatment of the exterior of the windows needs to be submitted (i.e., is the proposal to have a raw aluminum finish or will they have some type of baked enamel finish?). Finally, Staff cannot evaluate the appropriateness of the fiberglass steeple, because its appearance and finish were not provided. The HPC tends to avoid the use of these substitute materials in master plan sites, but has shown more flexibility for new construction provided the appearance and finish is consistent with a traditional material.

Staff's last consideration with the size, design, and placement of the proposed church building is its visibility; both as it relates to the Conley House and from Old Columbia Pike. The proposed church is 250' (two hundred fifty feet) from the Conley House at a lower elevation and is approximately 350' (three hundred fifty feet from Old Columbia Pike. Staff finds constructing the church in the proposed location will not impact the relationship between any of the historic buildings, nor will it impact any of the vistas of the historic house from the front. Staff's second concern is the visibility of the proposed church from Old Columbia Pike and how that will impact the overall character of the existing site. Staff notes that the current, largely forested condition of the site is inconsistent with the site's historic agricultural-open setting. Based on Staff's observations on the site, the 350' (three hundred fifty foot) distance from the public right-of-way will sufficiently separate the church building from the overall master plan setting.

Figure 6: The view from Old Columbia Pike towards the proposed church location.

Staff finds the following additional information is necessary for a subsequent Preliminary Consultation review:

- Accurate comparative information that shows the height and massing of the proposed church in relation to the Conley House including information on topography and grade both existing and proposed.

- Detailed exterior material specifications that include dimensions and finish treatment;
- Additional information about the height of the proposed church building and the Conley House.

Staff requests feedback from the HPC regarding:

- The appropriateness of the placement of the proposed church building on site;
- The appropriateness of the church buildings:
    - Size;
    - Design;
    - Materials; and
- Any other revisions or recommendations necessary for a second Preliminary Consultation review.

Paving and Re-Grading

The majority of the remaining buildable area on site will be regraded for parking. A new curb cut is proposed to be installed closer to the northeastern corner of the lot and the existing curb cut will be abandoned. The parking will be edged with concrete curbs and paved in asphalt. Additionally, the applicant proposes to construct a segmented concrete retaining wall along the norther property line.

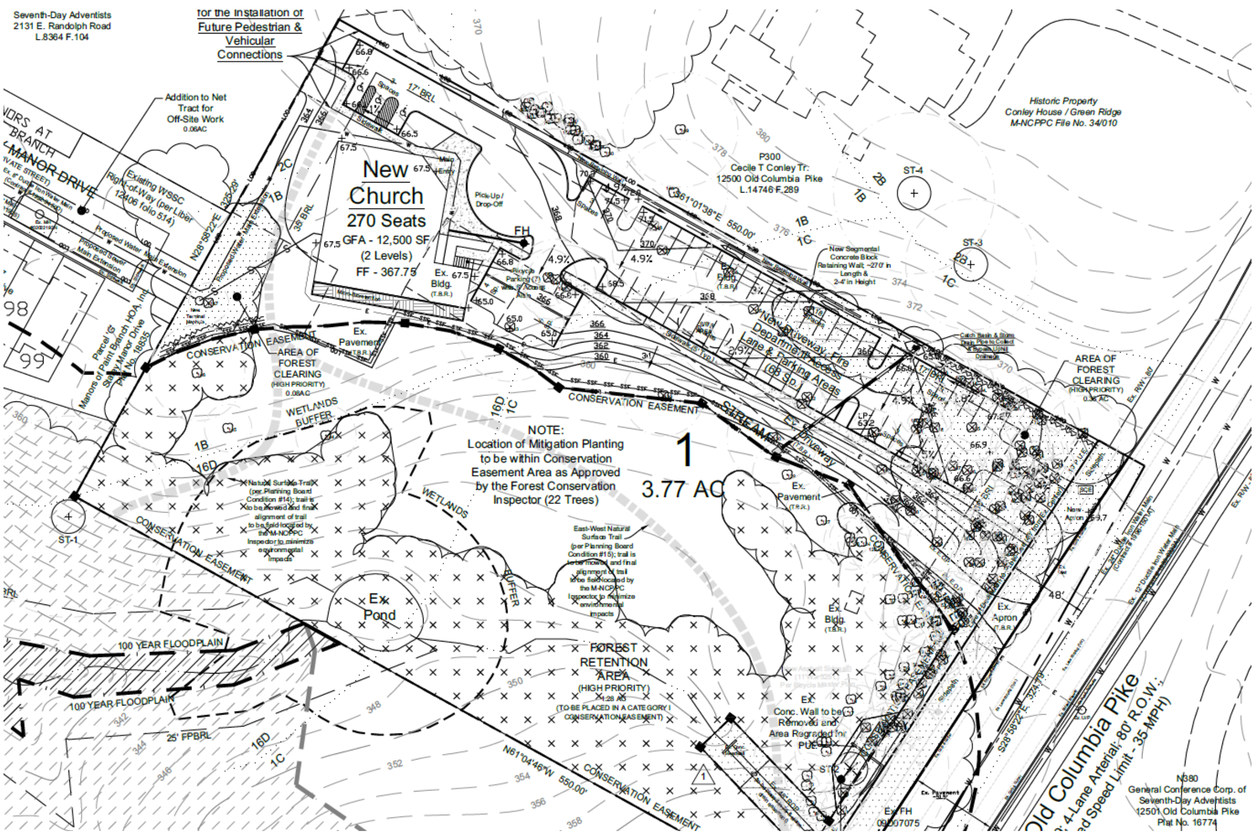


Figure 7: Proposed site plan submitted with the Forest Conservation Plan Amendment (October 2023).

Staff finds an unfinished concrete retaining wall along the north property is incompatible with the character of the site the wall needs to have a natural stone face to better blend in with the character of the site. Staff recommends the applicant submit detailed specifications showing the treatment of the retaining walls with a second Preliminary Consultation.

Staff finds the regrading of the site is necessary to create a grade that can accommodate the proposed parking but finds that the parking may impact the existing stone building along the north property line (discussed above). Finally, Staff finds the total amount of paving appears to be excessive and recommends that, at a minimum, the parking area closer to Old Columbia Pike should have a textured surface. A textured surface would help to retain more of the rustic rural character of the master plan site. Staff finds that stamped concrete, exposed aggregate concrete, or gravel would all be appropriate

Staff requests feedback from the HPC regarding:

- Does the HPC concur with Staff's finding that the concrete face of the retaining wall is incompatible with the character of the site?
  - Does the HPC agree with Staff's recommendation that a stone-faced wall is necessary to maintain the historic character?
  - Is there another finish the HPC would prefer?
- Does the HPC find the amount of paving on the site will retain the site's character?
- Any other comments or recommendations on the grading or paving proposed on site.

Other Work Elements

Detailed information about tree removals was not provided in the included materials. A HAWP is necessary to remove all trees larger than 6" d.b.h. (six inches diameter at breast height). The property received an approved Natural Resource Inventory/Forest Stand Delineation that includes an inventory of all trees that exceed 1" d.b.h (one inch diameter at breast height). The NRI/FSD identified 162 (one hundred sixty-two) trees on site. Additionally, the NRI/FSD shows that 22 (twenty-two) trees, at least 3" (three inches) wide need to be planted as mitigation for the lost trees. A notation on the 2023 Forest Conservation Plan Amendment states that the plantings will occur within the conservation easement area, as approve by the forest conservation inspector.

To aid HP Staff and the HPC in reviewing the tree removals proposed, an accounting of only the trees to be removed needs to be submitted as part of the HAWP application. Before any trees can be removed on site, a HAWP application must include the location, species, and size of the trees proposed for removal. Staff also notes that the applicant proposes to remove all of the trees between Old Columbia Pike and the church building, including all of the trees at the entrance. To maintain some of the site's existing character, Staff recommends that some replanting be required along the Old Columbia Pike frontage. Staff encourages the HPC to discuss the appropriate amount of planting in this area to be submitted as part of the HAWP application.

Additionally, no information was provided about any signage on the site. As the church building will be located so far to the rear of the site, Staff presumes some signage will be desired. A HAWP is required for any signage within the Conley House environmental setting. Based on the character of the site, Staff does not find that a large LED or video signage is appropriate for this site and that an externally illuminated sign, constructed of wood is preferable. A HAWP to install signage must include the sign dimensions in both elevation and plan, sign location, materials, and installation method. A county sign permit will also be required prior to sign installation.

Finally, the applicant is required to dedicate a section along Old Columbia Pike to install a multi-modal sidepath. The area master plan calls for a bikepath to be constructed along this road. The applicant has not provided Staff with detail for the construction of this new path, nor does it identify that this section of the property is being dedicated for a future use. Staff requests the applicant provide clarification on this section of the plan and reminds the applicant that a HAWP is required before construction of this path can begin.

STAFF RECOMMENDATION

Staff recommends the applicant make any revisions recommended by the HPC and return for a second Preliminary Consolation.

FOR STAFF ONLY:
HAWP#__________
DATE ASSIGNED______

APPLICATION FOR HISTORIC AREA WORK PERMIT

HISTORIC PRESERVATION COMMISSION
301.563.3400

APPLICANT:

Name: Iglesia Vida Nueva, Inc./Pastor German Pineda E-mail: yanciPineda@hotmail.com

Address: 13624 Northgate Drive City: Silver Spring Zip: 20906

Daytime Phone: 301-873-7092 Tax Account No.: 3637637

AGENT/CONTACT (if applicable):

Name: Philip Aaron Lacy, Architect E-mail: philiplacy95@gmail.com

Address: 9615 Geena Nicole Dr. Clinton, Md. City: Clinton Zip: 20735

Daytime Phone: 301-873-5093 Contractor Registration No.: 6849

LOCATION OF BUILDING/PREMISE: MIHP # of Historic Property__________

Is the Property Located within an Historic District? __Yes/District Name__________
X No/Individual Site Name Conley House/Green Ridge

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: 12450 Street: Old Columbia Pike

Town/City: Silver Spring Nearest Cross Street: Carters Grove Drive

Lot: ______ Block: ______ Subdivision: ______ Parcel: 355

TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:

- [x] New Construction
- [ ] Addition
- [x] Demolition
- [x] Grading/Excavation
- [ ] Deck/Porch
- [ ] Fence
- [ ] Hardscape/Landscape
- [ ] Roof
- [ ] Shed/Garage/Accessory Structure
- [ ] Solar
- [ ] Tree removal/planting
- [ ] Window/Door
- [ ] Other:__________

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Philip A. Lacy 2-2-24
Signature of owner or authorized agent Date

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners]	
Owner's mailing address German Pineda Iglesia Vida Nueva, Inc. 13624 North Gate Drive Silver Spring, MD. 20906	**Owner's Agent's** mailing address Philip Aaron Lacy 9615 Geena Nicole Drive Clinton, MD. 20735
Adjacent and confronting Property Owners mailing addresses	
General Conference of Seventh Day Adventists 12501 Old Columbia Pike Silver Spring, MD. 20904	Robert Kemjokeng & Marie S. 1837 Staley Manor Drive Silver Spring, MD. 20904
Donald Dyson & Jessica Dyson 1924 Carters Grove Drive Silver Spring, MD. 20904	Jenny Nguyen 1835 Staley Manor Drive Silver Spring, MD. 20904
Satish Gupta 1922 Carters Grove Drive Silver Spring, MD. 20904	Jeffrey R. Liebenguth & Dayam 1831 Staley Manor Drive Silver Spring, MD. 20904

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

The property that the church is proposed is a 3.77 acres lot that includes a significant conservation easement that includes a stream. The surrounding environment is wooded. A parking lot is provided to accommodate the congregation. In addition, a storm water management system is included on site. The building itself is a one story with a basement religious facility totaling 12,487 gross square feet on two levels serving 289 worshipers. The building super structure is a pre-engineered metal building with a concrete and masonry basement level. The building exterior includes a standing seam metal roof with an exterior insulation finish system. The facility contains a sanctuary, fellowship hall, a warming pantry, classrooms, office space, utility areas, stairs and an elevator. Fire and life safety features will also be included.

Description of Work Proposed: Please give an overview of the work undertaken:

The work includes the demolition of existing site structures, the excavation for a basement level, and storm water management devices. Protection of existing site features such as the stream and trees in the conservation easement. The work will continue by installing necessary paving and the building structure.

Work Item 1: ______________________	
Description of Current Condition:	Proposed Work:

Work Item 2: ______________________	
Description of Current Condition:	Proposed Work:

Work Item 3: ______________________	
Description of Current Condition:	Proposed Work:

MONTGOMERY PLANNING DEPARTMENT
THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
Certified Plan - F20230490
APPROVAL
11/05/23

Scale: 1" = 30'
0' 30' 60' 120'

DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. F20230490 including, financial bonding, forest planting, maintenance and all other application agreements.

Developer's Name: Iglesia Vida Nueva, Inc.
Print Company Name

Contact Person or Owner: German Pineda
Print Name

Address: 13624 North Gate Drive, Silver Spring, MD 20906

Phone # and Email: (301)873-7092 YanciPineda@hotmail.com

Signature: German Pineda

Professional Certification:
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed landscape architect registered to practice in the State of Maryland.

Signature	Date	Exp. Date
	07-20-2023	10-21-2024

BOARD OF EXAMINERS OF LANDSCAPE ARCHITECTS 2001 DAVID WILLIAM McKEE STATE OF MARYLAND

NOTES:
1. Floodplain area shown hereon is from Record Plat # 19314.
2. Two-foot contour-interval topography from M-NCPPC GIS map data.
3. Property boundary from a survey conducted by Thomas A. Maddox, Professional Land Surveyor.

LEGEND:
- CANOPY COVERAGE
- EXISTING BUILDING
- EXISTING CATEGORY I CONSERVATION EASEMENT
- INDEX CONTOUR (2' INTERVAL) — 300
- PROPERTY LINE (SUBJECT) — N 67°04'00" W
- SOILS SERIES DIVIDE — 1C / 2B
- STREAM
- STREAM BUFFER
- UTILITY POLE — Ex. U/P
- 100 YEAR FLOODPLAIN
- PROPOSED BUILDING
- SEWER LINE — S
- WATER LINE — W
- PROPOSED CONTOUR — 412
- BUILDING RESTRICTION LINE
- LIMIT OF DISTURBANCE — LOD
- CONSERVATION EASEMENT (CATEGORY I)
- PROPOSED SPOT ELEVATION — 52.5
- MICRO-BIORETENTION (PLANTER BOX)
- CONCRETE WALKWAYS
- FOREST CLEARED
- FOREST RETAINED
- SIGNIFICANT / SPECIMEN TREE (≥24" DBH) — ST-1
- HISTORIC SITE TREE (≥1"DBH)
- TREE TO BE REMOVED
- SUPER SILT FENCE — SSF
- STOCKPILE AREA — S/P AREA
- TREE PROTECTION FENCE & SIGNS — TPF
- CONSERVATION EASEMENT MARKER
- CRITICAL ROOT ZONE
- CONSTRUCTION ENTRANCE — SCE
- ROOT PRUNING
- SOIL TYPE / DIVIDE LINE — 21B / 19B
- ELECTRIC (Underground) — E
- NATURAL SURFACE TRAIL (see note below)

** Natural surface trails are to be mowed trails; final alignment of trails to be field located by the M-NCPPC Inspector to minimize environmental impacts.**

FOREST CONSERVATION WORKSHEET 2
Iglesia Vida Nueva Church

NET TRACT AREA:

A. Total tract area ...		4.10
B. Additions to tract area (Off-Site Work, etc.; construction required by this plan)...		0.17 *
C. Land dedication acres (parks, county facility, etc.) ...		0.00
D. Land dedication for roads or utilities (construction not required by this plan) ...		0.00
E. Area to remain in commercial agricultural production/use ...		0.00
F. Other deductions (specify)		0.00
G. Net Tract Area ....=		4.27

LAND USE CATEGORY: (from Chapter 22A-3. Definitions)
Input the number "1" under the appropriate land use, limit to only one entry.

ARA	MDR	IDA	HDR	MPD	CIA
0	0	1	0	0	0

G. Afforestation Threshold ...	15%	x G =	0.64
H. Conservation Threshold ...	20%	x G =	0.85

EXISTING FOREST COVER:

I. Existing forest cover ....=	1.94
J. Area of forest above afforestation threshold ....=	1.30
K. Area of forest above conservation threshold ....=	1.09

BREAK EVEN POINT:

L. Forest retention above threshold with no mitigation ....=	1.07
M. Clearing permitted without mitigation ....=	0.87

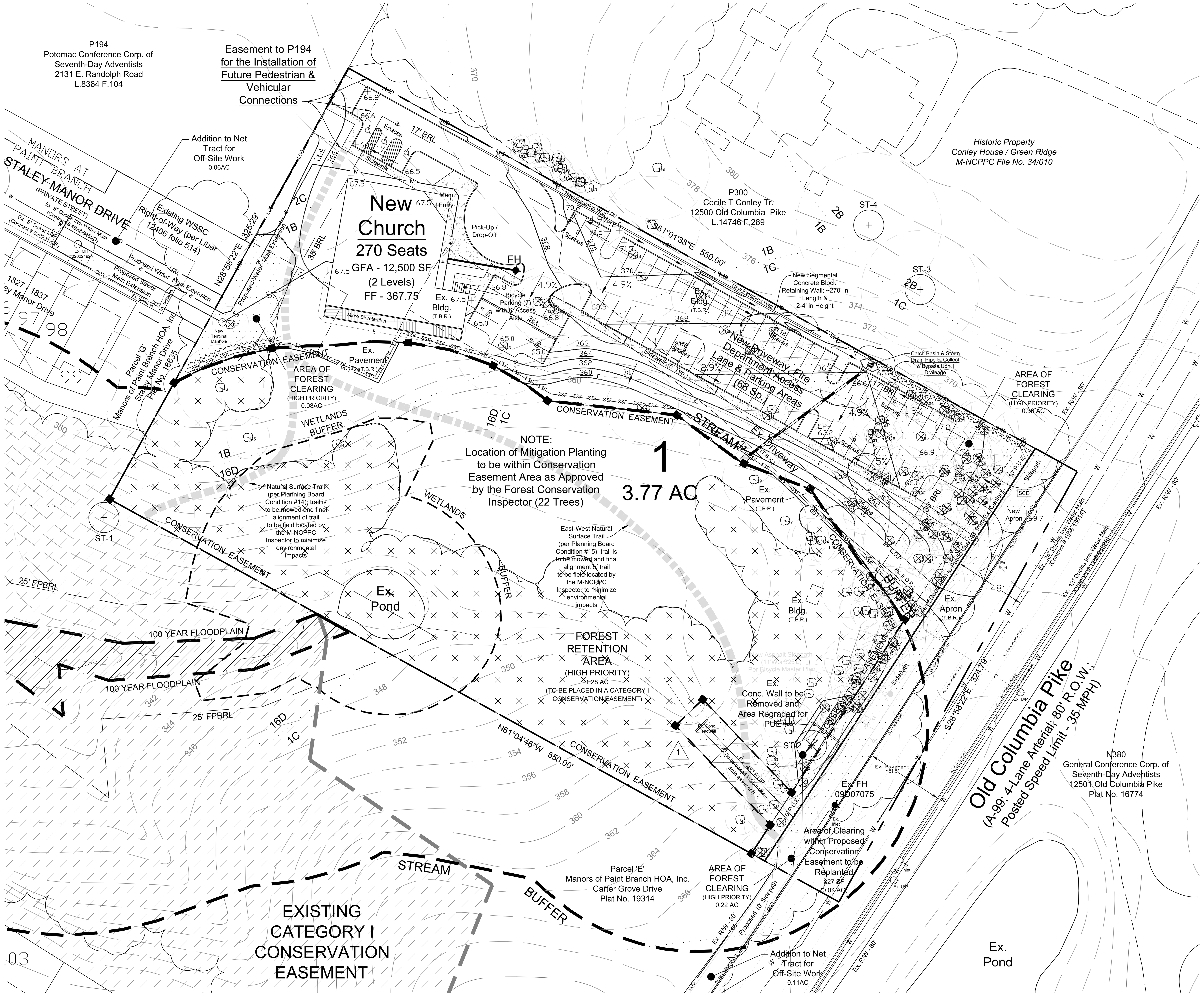
PROPOSED FOREST CLEARING:

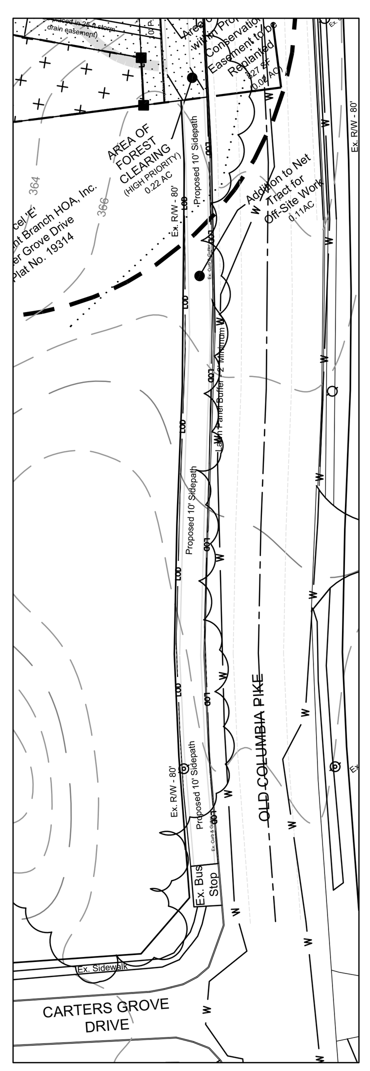
N. Total area of forest to be cleared ....=	0.66
O. Total area of forest to be retained ....=	1.28

PLANTING REQUIREMENTS:

P. Reforestation for clearing above conservation threshold ....=	0.17
Q. Reforestation for clearing below conservation threshold ....=	0.00
R. Credit for retention above conservation threshold ....=	0.43
S. Total reforestation required ....=	0.00
T. Total afforestation required ....=	0.00
U. Credit for landscaping (may not exceed 20% of "S") ....=	0.00
V. Total reforestation and afforestation required ....=	**0.00**

* off-site LOD area for work in Staley Manor Drive & LOD for off-site sidewalk improvement along Old Columbia Pike





Off-Site LOD for Sidepath
1" = 60'

NOTES:
1. With the M-NCPPC forest conservation inspector's permission, the Limits-of-Disturbance may be adjusted in the field to save adjacent trees.
2. Tree sizes were obtained by measuring diameter-at-breast height with a diameter tape. Sizes for off-site trees are by ocular estimates.
3. On-site and off-site tree locations from a field survey conducted in August 2018 by:
Benning & Associates, Inc.
8933 Shady Grove Ct.
Gaithersburg, Maryland 20877
301-948-0240
4. Area of forest to be cleared is 0.65 acres.
5. All tree protection and stress reduction measures are intended to be completed within the limits of the property.
6. Locations of symbols for tree protection signs and tree protection fencing may have been adjusted for graphic and legibility reasons.
7. Additional root pruning may be required by the M-NCPPC inspector if determined necessary to mitigate construction related damage to adjacent save trees.

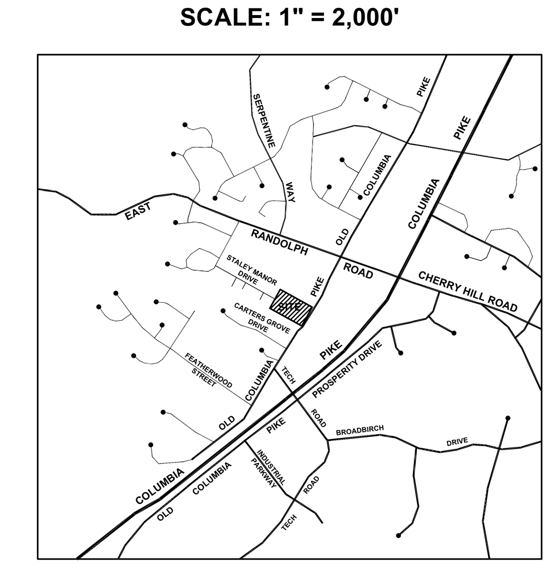
LIST OF AMENDMENT ITEMS

1. The existing storm drain shown on the approved plan has been moved and the 20' easement shown on the approved plan has been increased to 25' width.
2. The Forest Conservation worksheet has been updated to show a new overall area of forest to be retained.

NOTES:
1. GROSS AREA OF PROPERTY - 4.1 AC
2. AREA TO BE DEDICATED TO PUBLIC USE - 0.33 AC
3. NET TRACT AREA - 3.77 AC
4. EXISTING ZONING: RE-2C
5. METHOD OF DEVELOPMENT - STANDARD
6. NO. OF LOTS PROPOSED - 1
7. PROPOSED USE - RELIGIOUS ASSEMBLY
8. THE PROPERTY IS IDENTIFIED IN THE LOCATIONAL ATLAS AND INDEX OF HISTORIC SITES AS HISTORIC RESOURCE NUMBER 34/010-00A CONLEY HOUSE / GREEN RIDGE.
9. LOT TO BE SERVED BY PUBLIC WATER & PUBLIC SEWER.
10. EXISTING WATER SERVICE CATEGORY IS W-1; EXISTING SEWER SERVICE CATEGORY IS S-1.
11. LOCATED IN *PAINT BRANCH WATERSHED* (CLASS III; not an SPA).

Prepared for:
Iglesia Vida Nueva, Inc.
c/o Pastor German Pineda
13624 North Gate Drive
Silver Spring, MD 20906-2211
(301)873-7092

VICINITY MAP
SCALE: 1" = 2,000'



FINAL FOREST CONSERVATION PLAN

ACREAGE OF TRACT	ACREAGE OF TRACT REMAINING IN AGRICULTURE USE	ACREAGE OF ROAD AND UTILITY R.O.W. NOT TO BE IMPROVED	ACREAGE OF EXISTING FOREST	ACREAGE OF TOTAL FOREST RETENTION	ACREAGE OF TOTAL FOREST CLEARED	LAND USE CATEGORY	CONSERVATION THRESHOLD	AFFORESTATION THRESHOLD	FOREST WITHIN WETLANDS TO BE RETAINED	FOREST WITHIN WETLANDS TO BE CLEARED	FOREST WITHIN WETLANDS TO BE PLANTED	FOREST WITHIN 100-YEAR FLOODPLAIN TO BE RETAINED	FOREST WITHIN 100-YEAR FLOODPLAIN TO BE CLEARED	FOREST WITHIN 100-YEAR FLOODPLAIN TO BE PLANTED	FOREST WITHIN STREAM BUFFER TO BE RETAINED	FOREST WITHIN STREAM BUFFER TO BE CLEARED	FOREST WITHIN STREAM BUFFER TO BE PLANTED	FOREST WITHIN PRIORITY AREAS TO BE RETAINED	FOREST WITHIN PRIORITY AREAS TO BE CLEARED	FOREST WITHIN PRIORITY AREAS TO BE PLANTED	STREAM BUFFER-LINEAR FEET	STREAM BUFFER-AVERAGE WIDTH
4.16 AC	0.00 AC	0.00 AC	1.94 AC	1.29 AC	0.65 AC	INSTITUTIONAL	20% = 0.85 AC	15%= 0.64 AC	0.04 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	1.28 AC	0.22 AC	0.00 AC	577'	150'

Revisions
Rev. 02-25-2022
Rev. 06-22-2023

date: 03/17/2021
scale: 1" = 30'

Benning & Associates, Inc.
Land Planning Consultants
8933 Shady Grove Court
Gaithersburg, MD 20877
(301) 948-0240

PRELIMINARY / FINAL FOREST CONSERVATION PLAN AMENDMENT
Iglesia Vida Nueva Church
12450 Old Columbia Pike
Montgomery County, Maryland

WSSC GRID 216NE02
TAX MAP KQ123
M-NCPPC FILE NO. F20230490
SHEET 3 OF 5


Figure 1: Conely House from the eastern edge of the subject property.

Figure 2: Existing entrance to the subject property

Figure 3: Non-historic building in the existing forest conservation easement.

Figure 4: Looking up the grade towards the existing large building and gravel parking area.

Figure 5: Looking from the large building towards Old Columbia Pike.

Figure 6: Existing large building on site (constructed after 1951.

Figure 7: Non-historic prefab shed.

Figure 8: Historic stone building.

Figure 9: Detail showing repointing on historic stone building.

IGLESIA VIDA NUEVA UNIDA INTERNACIONAL

12450 OLD COLUMBIA PIKE

SILVER SPRING, MARYLAND 20904

ARCHITECT:

PHILIP AARON LACY ARCHITECTS, LLC
9615 GEENA NICOLE DRIVE
CLINTON, MARYLAND 20735

STRUCTURAL ENGINEER:

MGV CONSULTING STRUCTURAL ENGINEERS, INC.
6239 EXECUTIVE BOULEVARD
NORTH BETHESDA, MARYLAND 20852

MEP ENGINEER:

CHARLES FORD & ASSOCIATES, LLC
13100 COLLINGWOOD TERRACE
SILVER SPRING, MARYLAND 20904

GENERAL NOTES

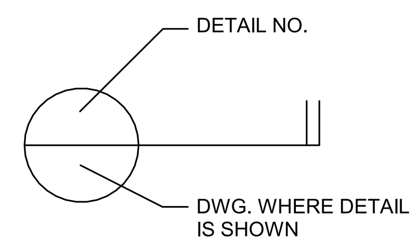
1. All work materials and systems shall be furnished and installed in accordance with the State of Maryland International Building Code (IBC) latest adopted edition.
2. The Contractor shall review the drawings and specifications and bring to the attention of the Architect any discrepencies prior to pricing, fabrication, and installation.
3. The Contractor shall field verify all existing conditions prior to pricing, fabrication of materials, and installation of work.
4. All conditions as indicated as existing or existing dimensions as noted are for the convenience of the user of the drawings. There is no warranty or guarantee of the correctness and/or the completness of the information as provided on the drawings must verify and confirm such information to their own satisfaction.
5. Advise the Architect in writing of any condition, dimension or defect that could effect the satisfactory completion or permanency of the work. The Contractor assumes all responsibility once the work commences.
6. The Contractor shall coordinate and schedule work with other trades, utility companies, government agencies, and any other applicable regulatory agency.
7. The Contractor shall coordinate, schedule and provide all related services and pay all fees as required to perform tests and/or certification of work as required by these documents, government and egulatory agencies.
8. Prior to starting the work, the Contractor shall provide a detailed construction schedule to the Owner and Architect for review and approval. Completion date and other related milestone dates shall comply with the executed contract. The schedule shall be updated as deemed necessary by the progress of the job.
9. All work shall be coordinated and scheduled with the Owner. Work shall be performed in such a manner as to keep disturbance to the facility to an absolute minimum. The facility facility shall maintain normal living and/or working hours during construction.
10. Thes construction documents (Drawings and Specifications) are diagramatic and may not show the work in its entirety or true position. This shall not relieve the Contractor from installing the work or the systems in conformity with conventional and correct principals, complete and operational with the intent of the drawings and specifications.
11. Unless noted otherwise, all materials, products and equipment shall be new and as specified, installed in strict compliance with maunfacturer's instructions, directions, and recommendations.
12. The Contractor shall submit shop drawings and manufacture's literature to the Architect for review.
13. The Contractor shall collect and place all construction debri in a dumpster at the end of each working day. The Contractor shall odserve all appropriate recycling proceedures.
14. The Contractor shall provide and maintain all necessary barricades, lights, signs, and other safety devices necessary to maintain the job site as safe during construction. The Contractor is solely responsible for all safety aspects of the project.
15. The Contractor shall protect all existing conditions not requiring new work and restore existing conditions to there original state where damaged during construction operations.
16. The Contractor agrees to assume and does hereby assumes all liability for and shall and does hereby agree to imdemnify and hold harmless the Owner and the Architect against and all loss, charge, attorney fees,expenses, claims, judgements or damages arising from injuries or harm sustained but not limited to bodily injury to any persons, mechanics, laborers or any person whatsoever or property of any kind arising out or in any way connected with the performance of the work to be performed under this contract.

ABBREVIATIONS & SYMBOLS

AB	ABOVE
AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTICAL CEILING TILE
ADH	ADHESIVE
ALUM	ALUMINUM
ADJ	ADJACENT
BM	BEAM
BEL	BELOW
BLK	BLOCKING
BD	BOARD
BLDG	BUILDING
BRK	BRICK
BHD	BULKHEAD
CAB	CABNET
CPT	CARPET
CPC	CAST IN PLACE CONCRETE
CLG	CEILING
CTR	CENTER
CT	CERAMIC TILE
CL	CLOSET
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CONST	CONSTRUCTION
CJ	CONTROL JOINT
CONT	CONTINUOUS
CG	CORNER GUARD
DP	DAMPPROFFING
DEG	DEGREE
DEMO	DEMOLISH
DEP	DEPRESSED
DET	DETAIL
DWG	DRAWING
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DN	DOWN
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
ELEV	ELEVATION
EOS	EDGE OF SLAB
EQ	EQUAL
EXIST	EXISTING
EJ	EXPANSION JOINT

FOS	FACE OF STUD
FF	FINISHED FLOOR
FE	FIREW EXTINGUISHER
FLASH	FLASHING
FL	FLOOR
FD	FLOOR DRAIN
FLOUR	FLUORESCENT
FTG	FOOTING
FURR	FURRING
GALV	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GL	GLASS
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
HDW	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JC	JANITOR'S CLOSET
KPL	KICK PLATE
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LF	LINEAR FOOT
MACH	MACHINE
MH	MAN HOLE
MFR	MANUFACTURER
MO	MASONRY OPENING
MAX	MAXIMUM
MET	METAL
MECH	MECHANICAL
MIN	MINIMUM
MW	MILLWORK
MISC	MISCELLANEOUS
MUL	MULLION
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE

OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OH	OVERHEAD
PTD	PAINTED
PLAS	PLASTER
PTN	PARTITION
PLWD	PLYWOOD
PC	PRECAST CONCRETE
PROJ	PROJECT
PL	PROPERTY LINE
REF	REFERENCE
REINF	REINFORCEMENT
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
R	RISER
RD	ROOF DRAIN
RM	ROOM
SCHD	SCHEDULED
SEC	SECTION
SIM	SIMILAR
SC	SOLID CORE
SAB	SOUND ATTENUATION BLANKET
S	SOUTH
SPEC	SPECIFICATION
SF	SQUARE FEET
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
SUSP	SUSPENSION
THK	THICK
THRES	THRESHOLD
TOIL	TOILET
T&G	TONGUE & GROOVE
T	TREAD
TOS	TOP OF SLAB
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT	VERTICAL
VCT	VINYL COMPISITION TILE
WP	WATER PROOFING
WWF	WELDED WIRE FABRIC
W/	WITH
WD	WOOD



PROJECT DESCRIPTION

The project is a one story with a basement religious facility totaling 12,487 G.S.F. on two levels serving 289 worshipers. The building super structure is a pre-engineered metal building with a concrete and masonry basement level. The building exterior includes a standing seam metal roof with an insulated exterior finish system. The facility contains a sanctuary, fellowship hall, a warming pantry, classrooms, office space, utility areas, stairs and an elevator. Fire and life safety features will also be included.

BUILDING CODE ANALYSIS

BUILDING CODES:

2018 NFPA 101 Life Safety Code
2018 International Building Code (IBC)
2015 International Energy Conservation Code (IECC)

USE GROUP: A-3 ASSEMBLY (CHURCH)
CONSTRUCTION TYPE: IIB 9,500 SQ. FT. ALLOWED
BUILDING AREA: 6,243 SQ. FT. PER FLOOR (TOTAL G.S.F. = 12,487)
BUILDING IS NON-SPRINKLERED
OCCUPANT LOAD: 289 WORSHIPERS
BUILDING HEIGHT: 55 FEET ALLOWED (32 FT. AT ROOF RIDGE)
FIRE ALARM: YES
NUMBER OF EXITS: 2
EXIT ACCESS TRAVEL DISTANCE: 200 FEET
PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS EXTERIOR: 0 HOURS
BEARING WALLS INTERIOR: 0 HOURS
NONBEARING WALLS AND PARTITIONS: 0 HOURS
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0 HOURS
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0 HOURS
CORRIDOR RATING: 1 HOUR
STAIR ENCLOSURES: 1 HOUR
EXIT WIDTH: 68 INCHES DIVIDED BY .2 = 340 PEOPLE

LIST OF DRAWINGS

"I hereby certify that these documents were prepared by or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland. License No. 6849 expiration date 11-18-25"

Date:

Revisions:

Certifica

Project Title:

Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

COVER & INFORMATION SHEET

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering, Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

Scale: *1/4" = 1'-0"*

Drawn: *Author*

Checked: *Checker*

File No. *C:\Users\phili\Documents\Iglesia VNUI\Iglesia VNUI.rvt*

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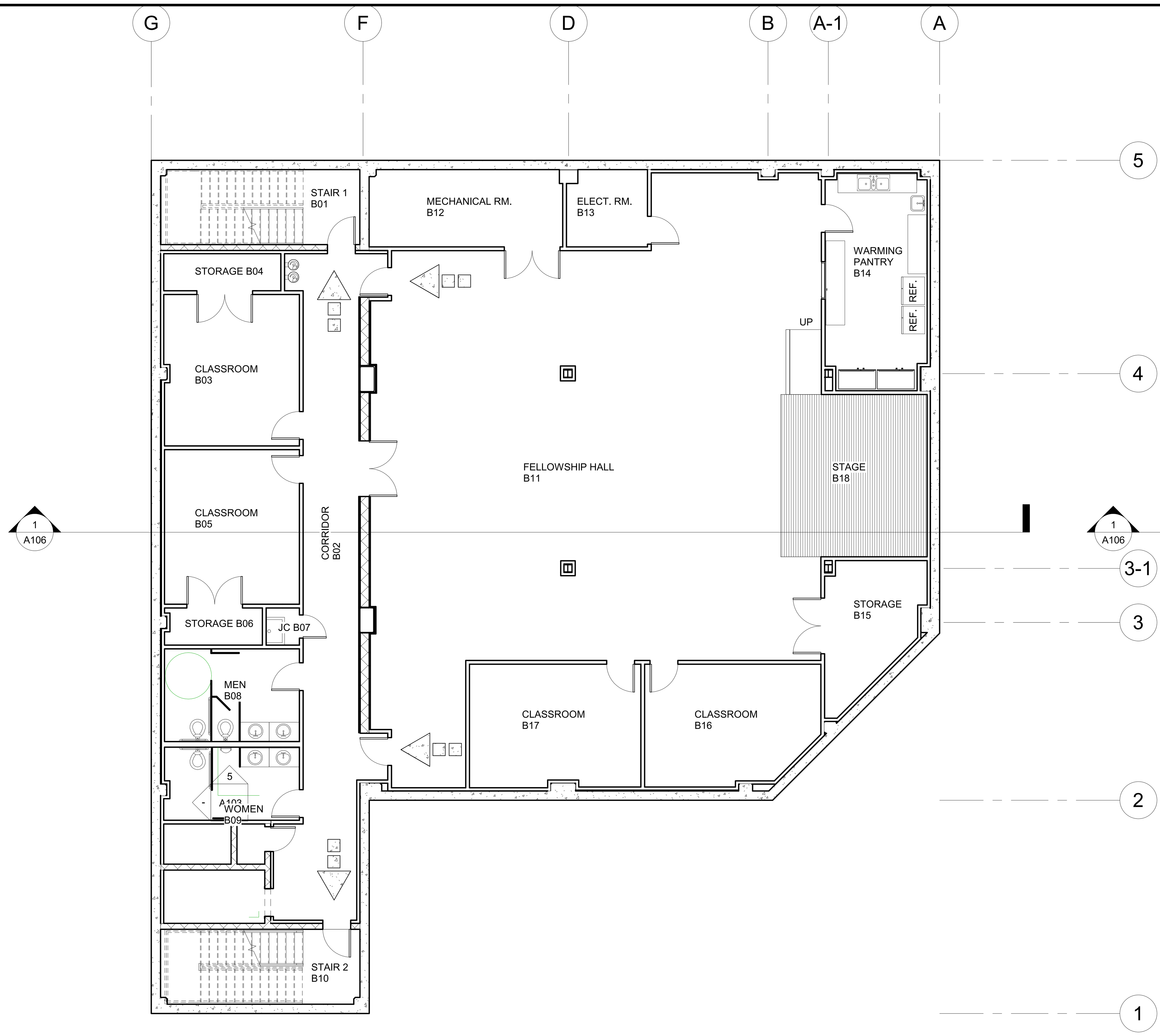
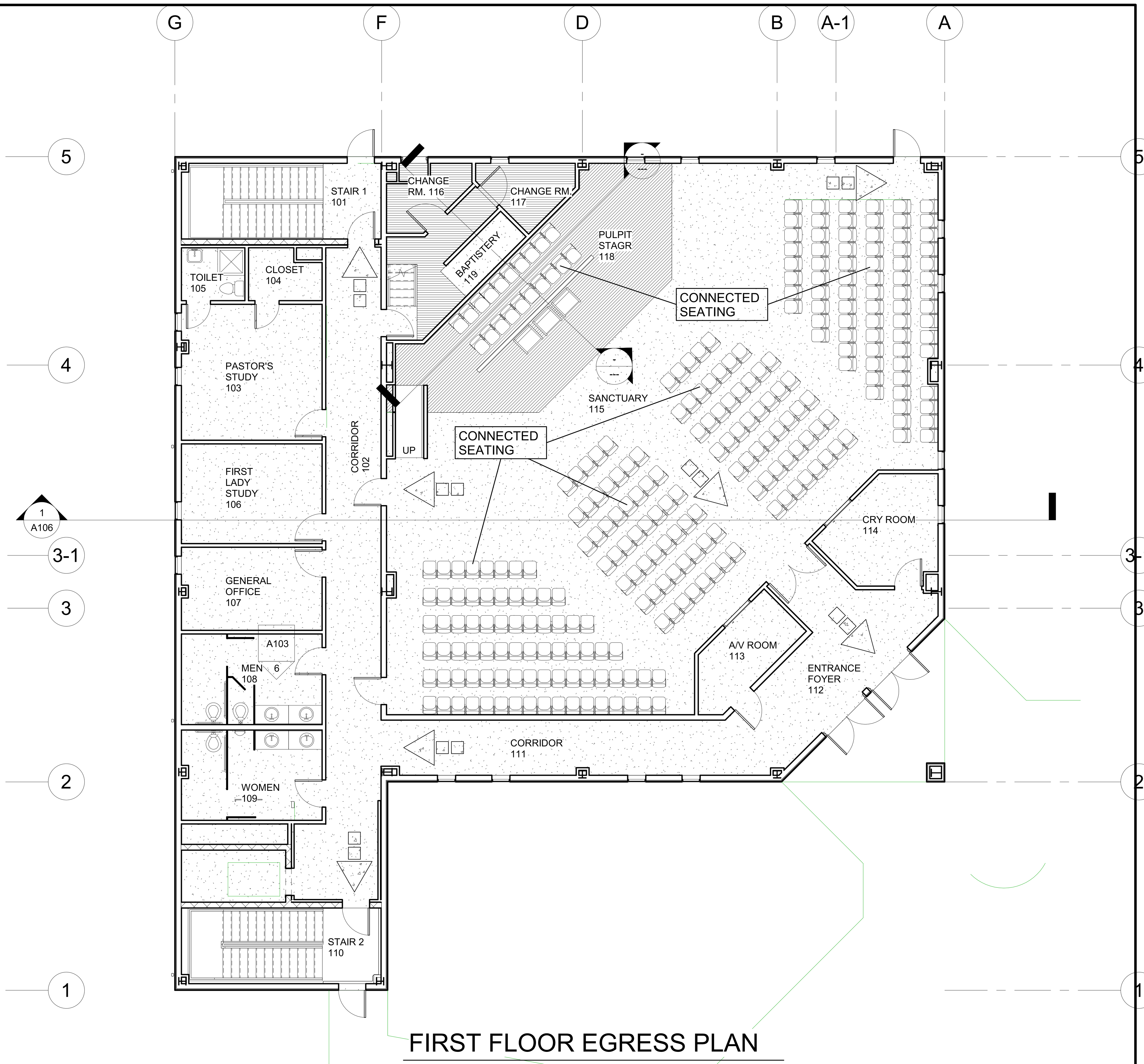


BASEMENT EGRESS PLAN

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



FIRST FLOOR EGRESS PLAN

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

OCCUPANT LOAD BASEMENT LEVEL

ROOM NAME	SQ. FOOTAGE	SQ. FOOTAGE PER PERSON	TOTAL
STAIR 1 B01	171 S.F.	-	-
CORRIDOR B02	516 S.F.	-	-
CLASSROOM B03	245 S.F.	20 SQ. FT. PER PERSON	12 PEOPLE
STORAGE B04	50 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
CLASSROOM B05	249 S.F.	20 SQ. FT. PER PERSON	12 PEOPLE
STORAGE B06	42 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
JANITOR'S CLOSET B07	12 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
MEN'S TOILET B08	145 S.F.	50 G.S.F. PER PERSON	2 PEOPLE
WOMEN'S TOILET B09	145 S.F.	50 G.S.F. PER PERSON	2 PEOPLE
STAIR 2 B10	171 S.F.	-	-
FELLOWSHIP HALL B11	2,338 S.F.	15 SQ. FT. PER PERSON	155 PEOPLE
MECHANICAL ROOM B12	174 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
ELECTRICAL ROOM B13	72 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
WARMING PANTRY B14	242 S.F.	300 G.S.F. PER PERSON	
STORAGE B15	150 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
CLASSROOM B16	243 S.F.	20 SQ. FT. PER PERSON	12 PEOPLE
CLASSROOM B17	252 S.F.	20 SQ. FT. PER PERSON	12 PEOPLE
STAGE B18	299 S.F.	15 SQ. FT. PER PERSON	20 PEOPLE

BASEMENT POPULATION = 227 PEOPLE

NOTE: SANCTUARY SEATING EQUALS 289 WORSHIPERS WITH 1 IN THE AUDIO VISUAL ROOM. THIS NUMBER REPRESENTS THE TOTAL POPULATION OF THE CHURCH

OCCUPANT LOAD FIRST FLOOR LEVEL

ROOM NAME	SQ. FOOTAGE	SQ. FOOTAGE PER PERSON	TOTAL
STAIR 1 101	171 S.F.	-	-
CORRIDOR 102	435 S.F.	-	-
PASTOR'S STUDY 103	232 S.F.	100 G.S.F. PER PERSON	2 PEOPLE
CLOSET 104	48 S.F.	300 G.S.F. PER PERSON	0 PEOPLE
TOILET ROOM 105	29 S.F.	50 G.S.F. PER PERSON	0 PEOPLE
FIRST LADY STUDY 106	170 S.F.	100 G.S.F. PER PERSON	1 PERSON
GENERAL OFFICE 107	141 S.F.	100 G.S.F. PER PERSON	1 PERSON
MEN'S TOILET 108	145 S.F.	50 G.S.F. PER PERSON	2 PEOPLE
WOMEN'S TOILET 109	145 S.F.	50 G.S.F. PER PERSON	2 PEOPLE
STAIR 2 110	171 S.F.	-	-
CORRIDOR 111	229 S.F.	-	-
ENTRANCE FOYER 112	269 S.F.	5 SQ. FT. PER PERSON	53 PEOPLE
AUDIO VISUAL RM. 113	74 S.F.	100 G.S.F. PER PERSON	0 PEOPLE
CRY ROOM 114	120 S.F.	100 G.S.F. PER PERSON	1 PERSON
SANCTUARY 115	2,449 S.F.	7 SQ. FT. PER PERSON	349 PEOPLE
CHANGING ROOM 116	64 S.F.	50 G.S.F. PER PERSON	1 PERSON
CHANGING ROOM 117	68 S.F.	50 G.S.F. PER PERSON	1 PERSON
PULPIT STAGE 118	472 S.F.	15 SQ. FT. PER PERSON	31 PEOPLE
BAPTISTERY 119	131 S.F.	15 SQ. FT. PER PERSON	8 PEOPLE

FIRST FLOOR POPULATION = 452 PEOPLE

"I hereby certify that these documents were prepared by or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland. License No. 6849 expiration date 11-18-25"

Date:

Revisions:

Certificati

ARCHITECTURAL REGISTRATION BOARD 6849-R PHILIP AARON LACY STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

EGRESS FLOOR PLANS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

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

Drawn: Author

Checked: Checker

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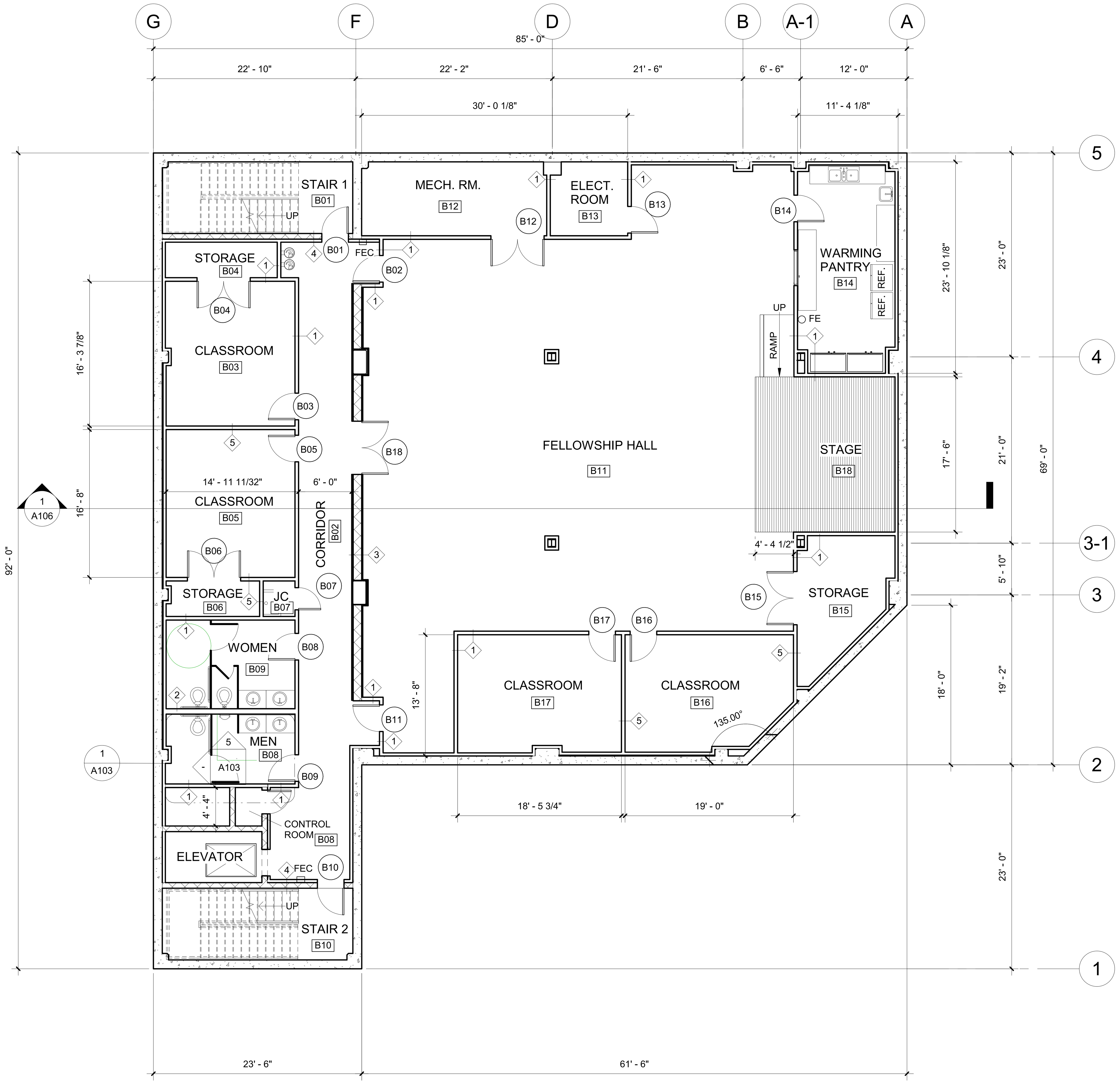

BASEMENT FLOOR PLAN

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

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ARCHITECTURAL REGISTRATION BOARD 6849-R PHILIP AARON LACY STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BASEMENT FLOOR PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

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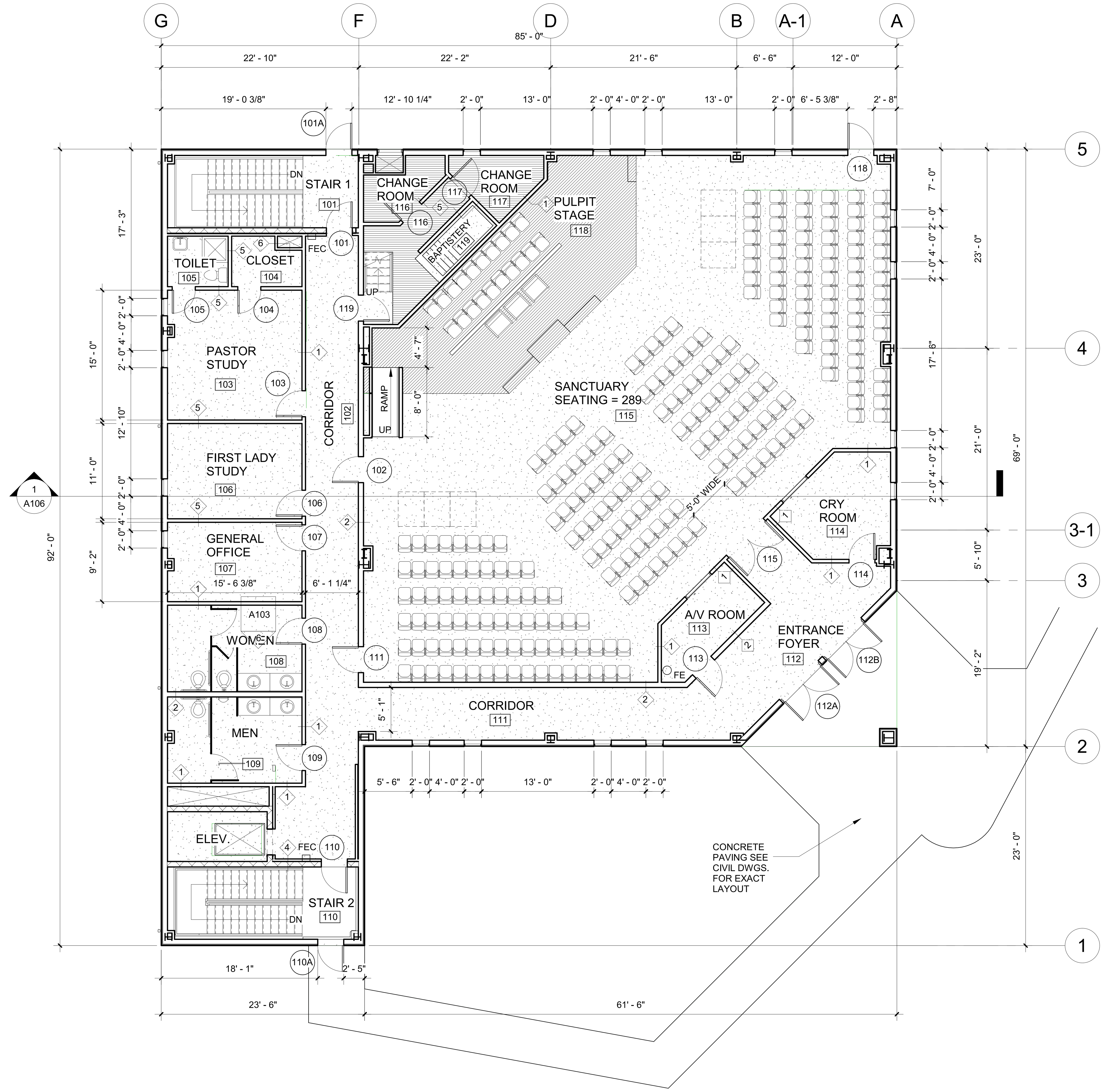

FIRST FLOOR PLAN

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

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Date:

Revisions:

Certificat

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

FIRST FLOOR PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date:	JULY 5, 2022
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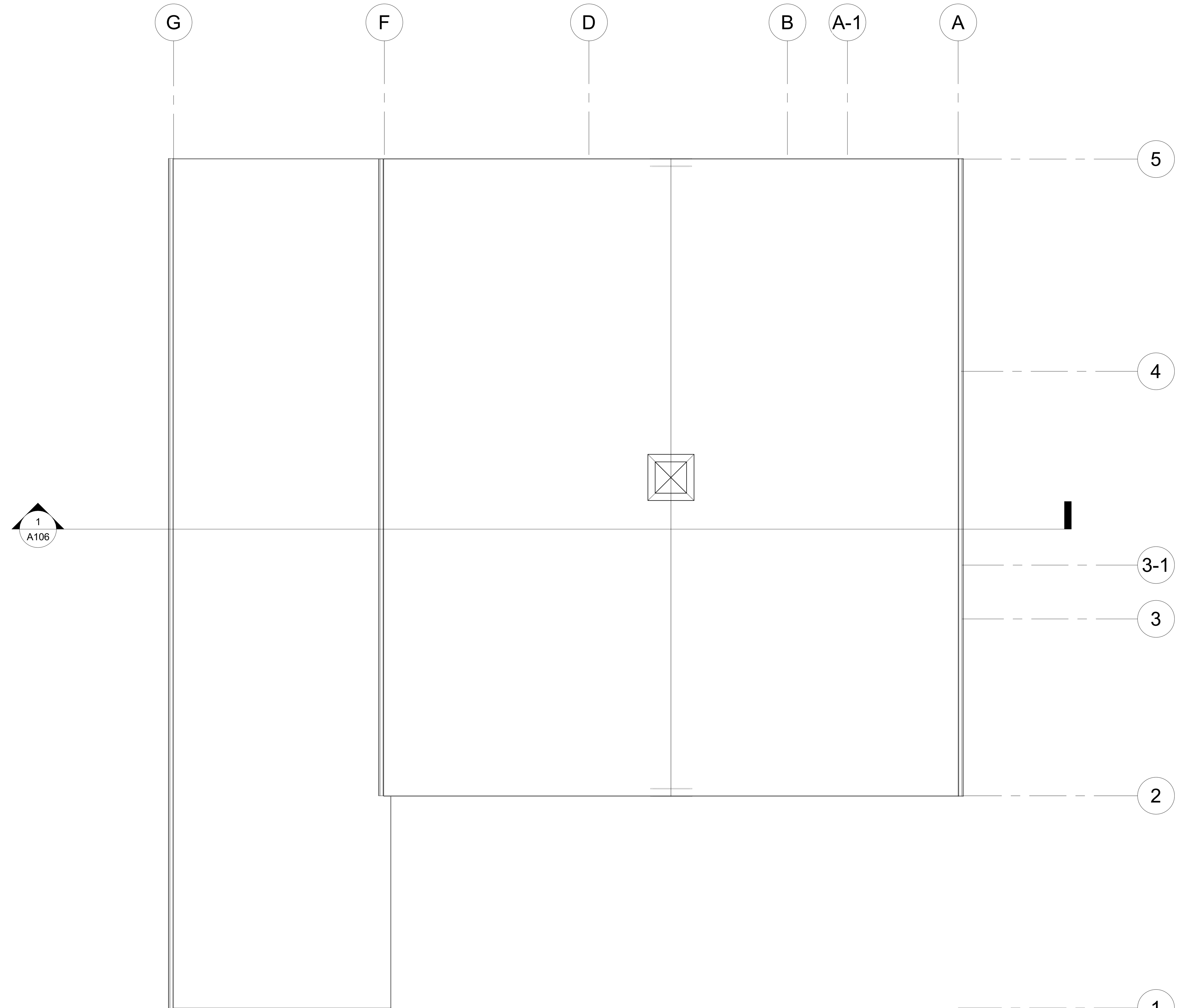

ROOF PLAN

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

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Date:

Revisions:

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Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

ROOF PLAN & DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

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

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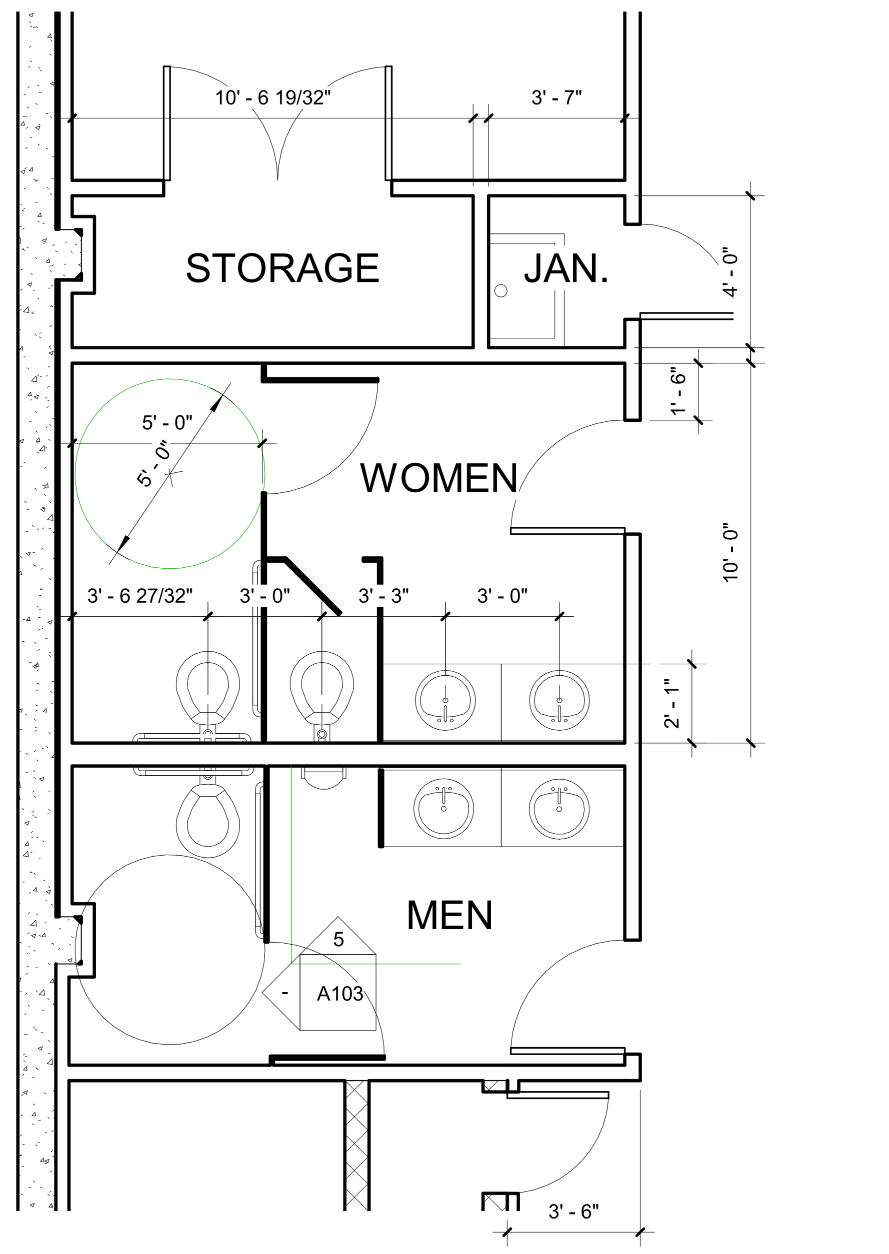
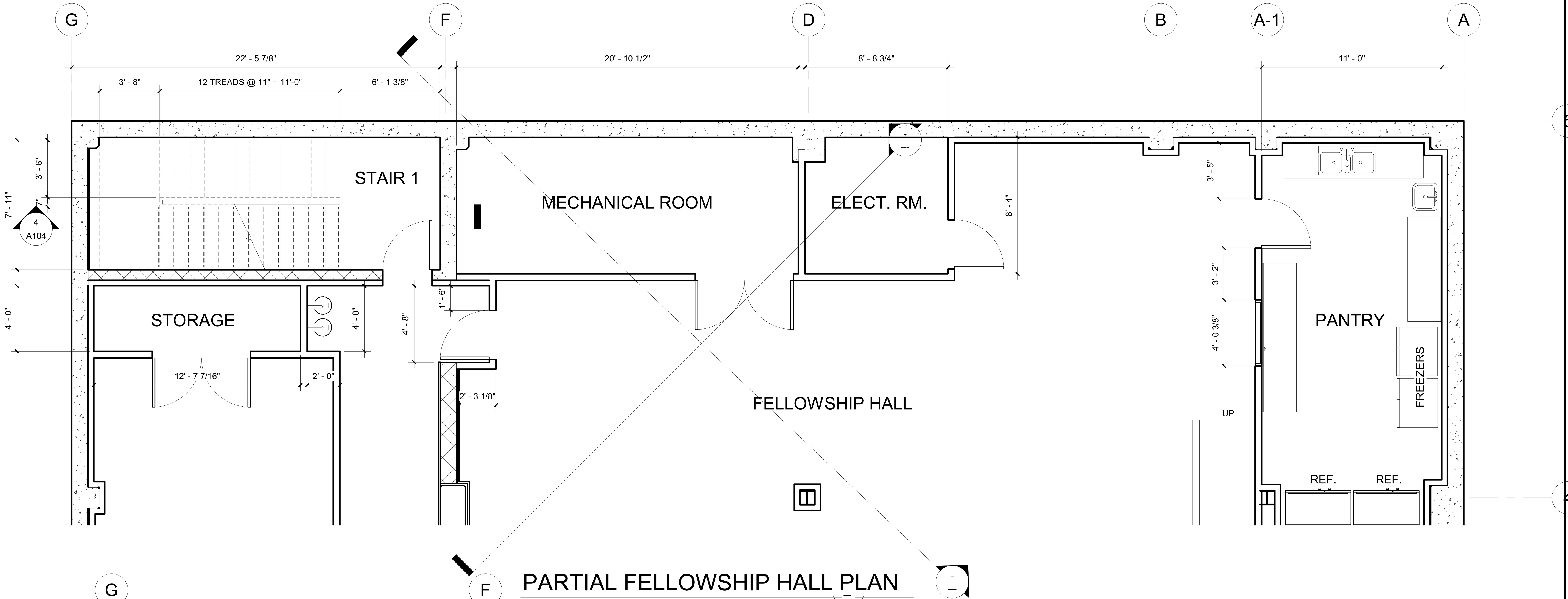
of



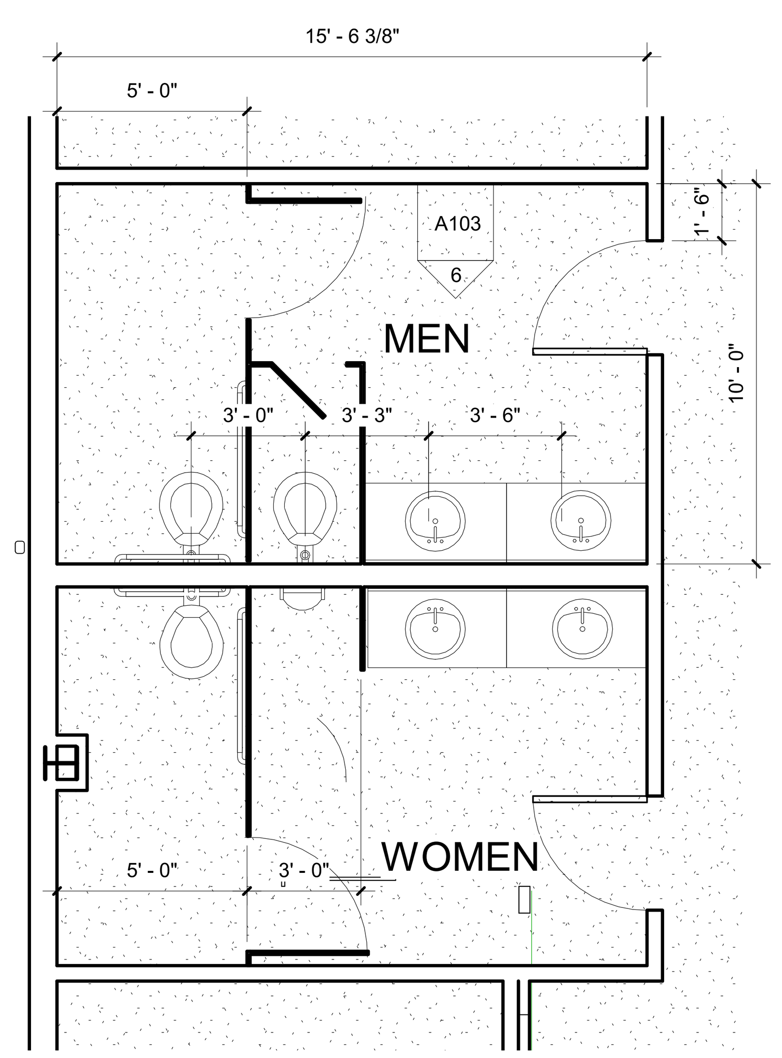
BASEMENT TOILET ROOM PLAN

SCALE: 1/4" = 1'-0"



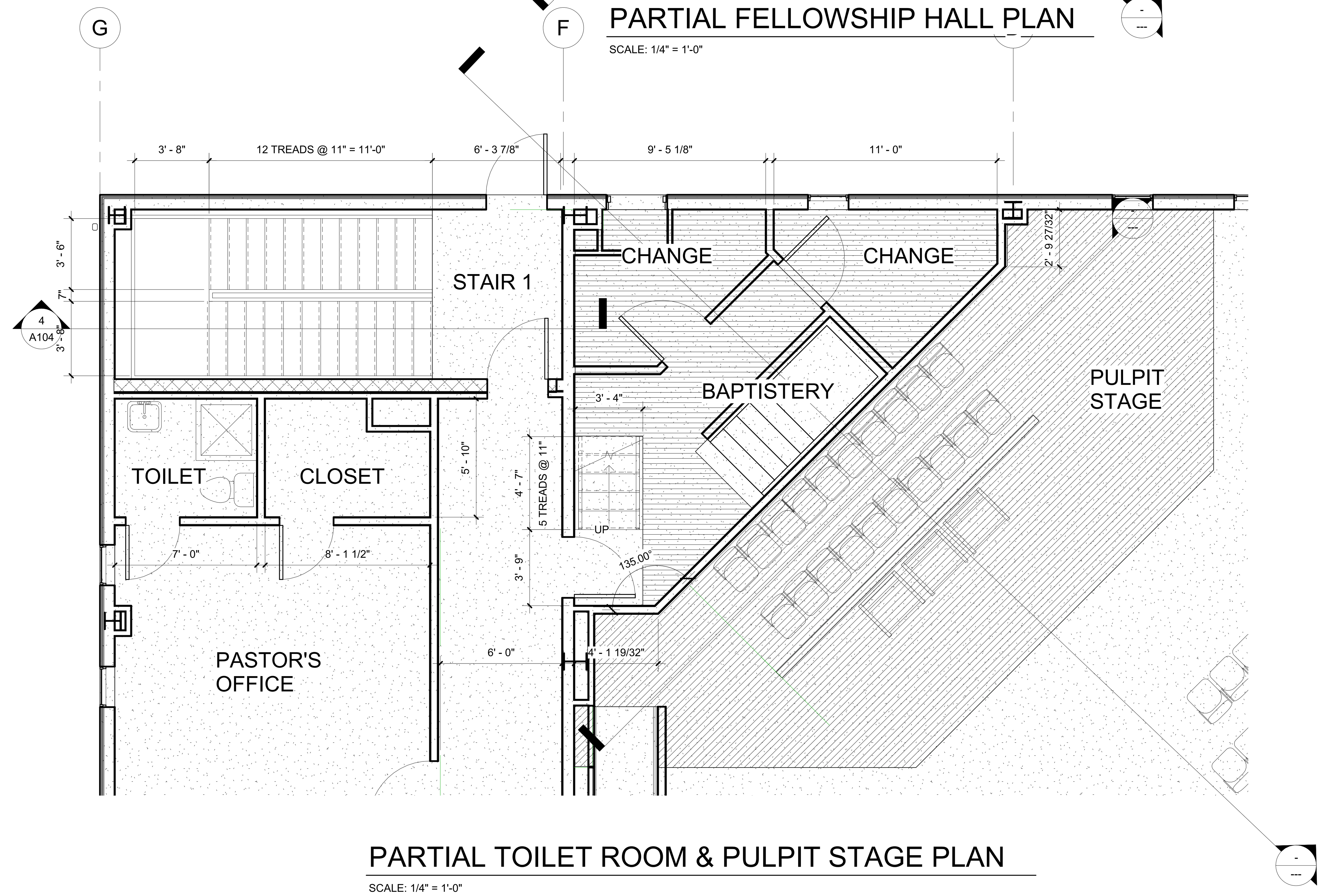
PARTIAL FELLOWSHIP HALL PLAN

SCALE: 1/4" = 1'-0"



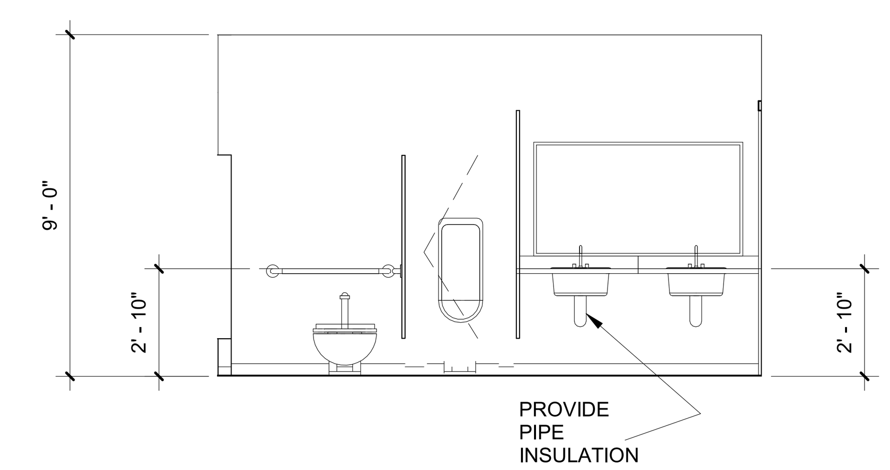
FIRST FLOOR TOILET ROOM PLAN

SCALE: 1/4" = 1'-0"



PARTIAL TOILET ROOM & PULPIT STAGE PLAN

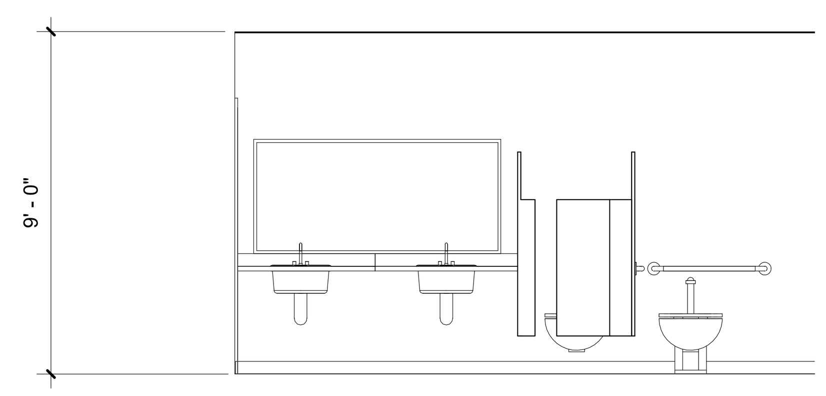
SCALE: 1/4" = 1'-0"



TOILET ROOM ELEV.

5 A103

SCALE: 1/4" = 1'-0"



TOILET ROOM ELEV.

6 A103

SCALE: 1/4" = 1'-0"

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Date:

Revisions:

Certificat'

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

TOILET ROOM & UTILITY PLANS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

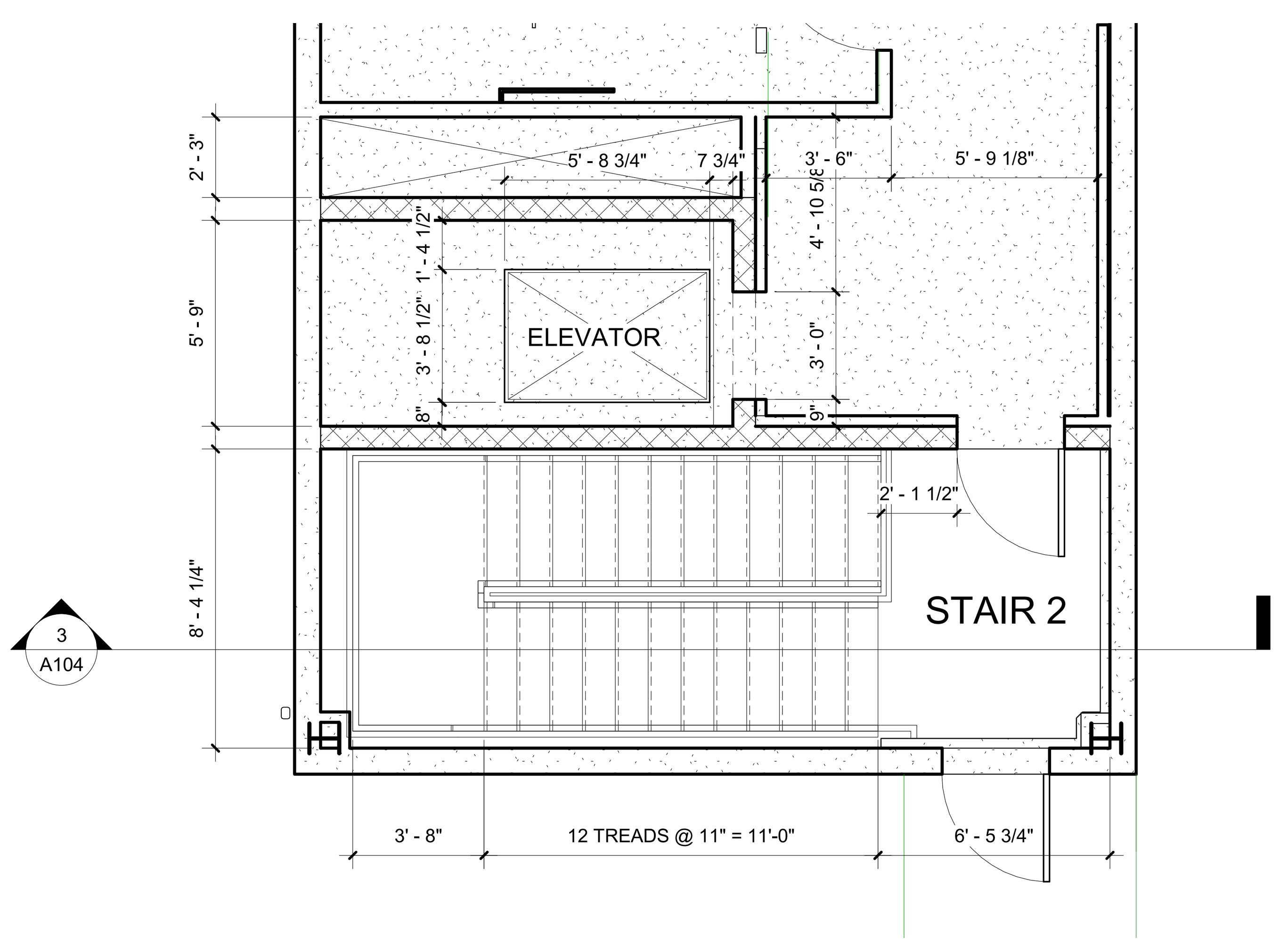
Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date:	JULY 5, 2022
Scale:	1/4" = 1'-0"
Drawn:	Author
Checked:	Checker
File No.	

Drawing No.

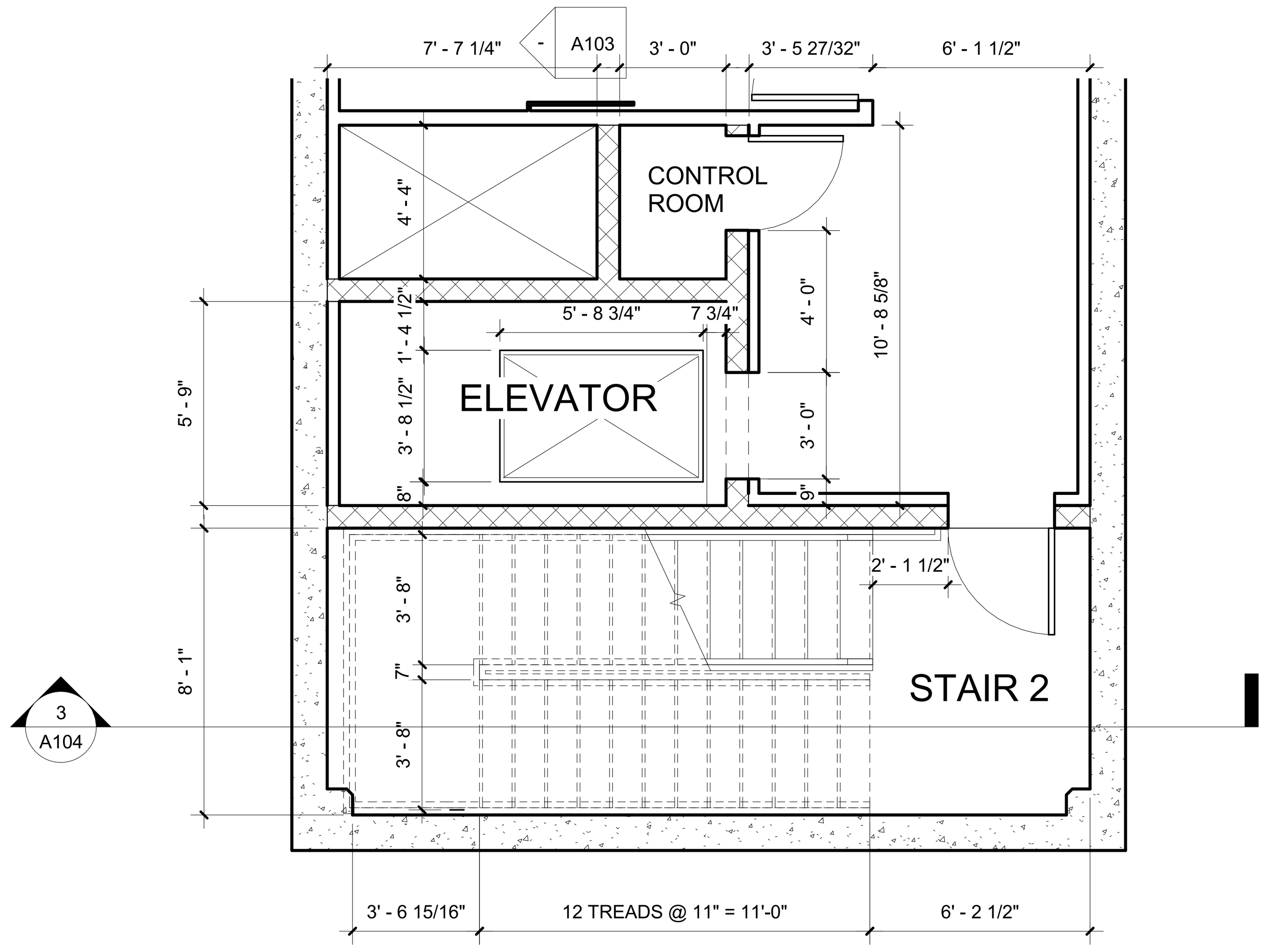
A103

of



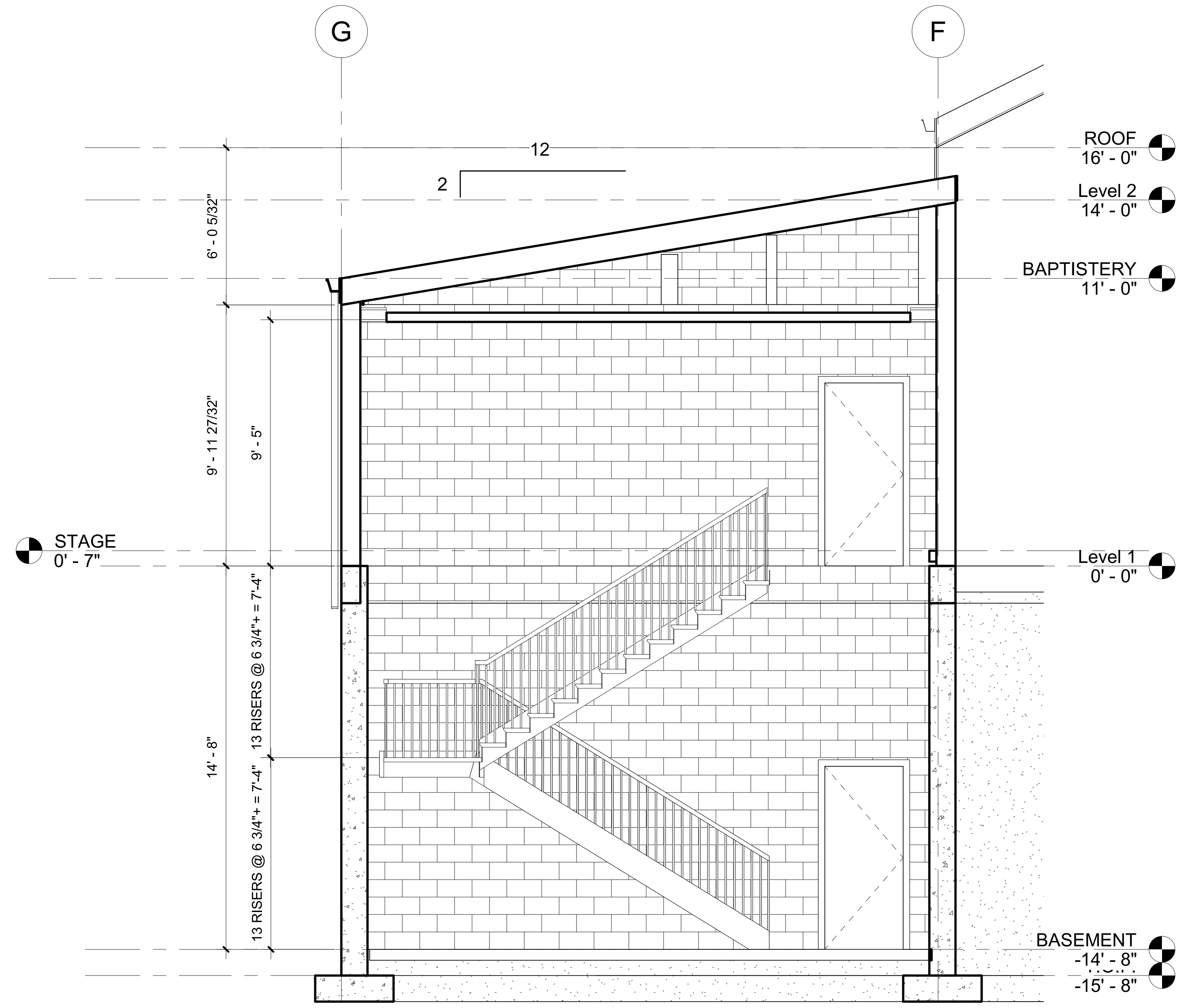
FIRST FLOOR STAIR / ELEVATOR PLAN

SCALE: 1/4" = 1'-0"



BASEMENT STAIR / ELEVATOR PLAN

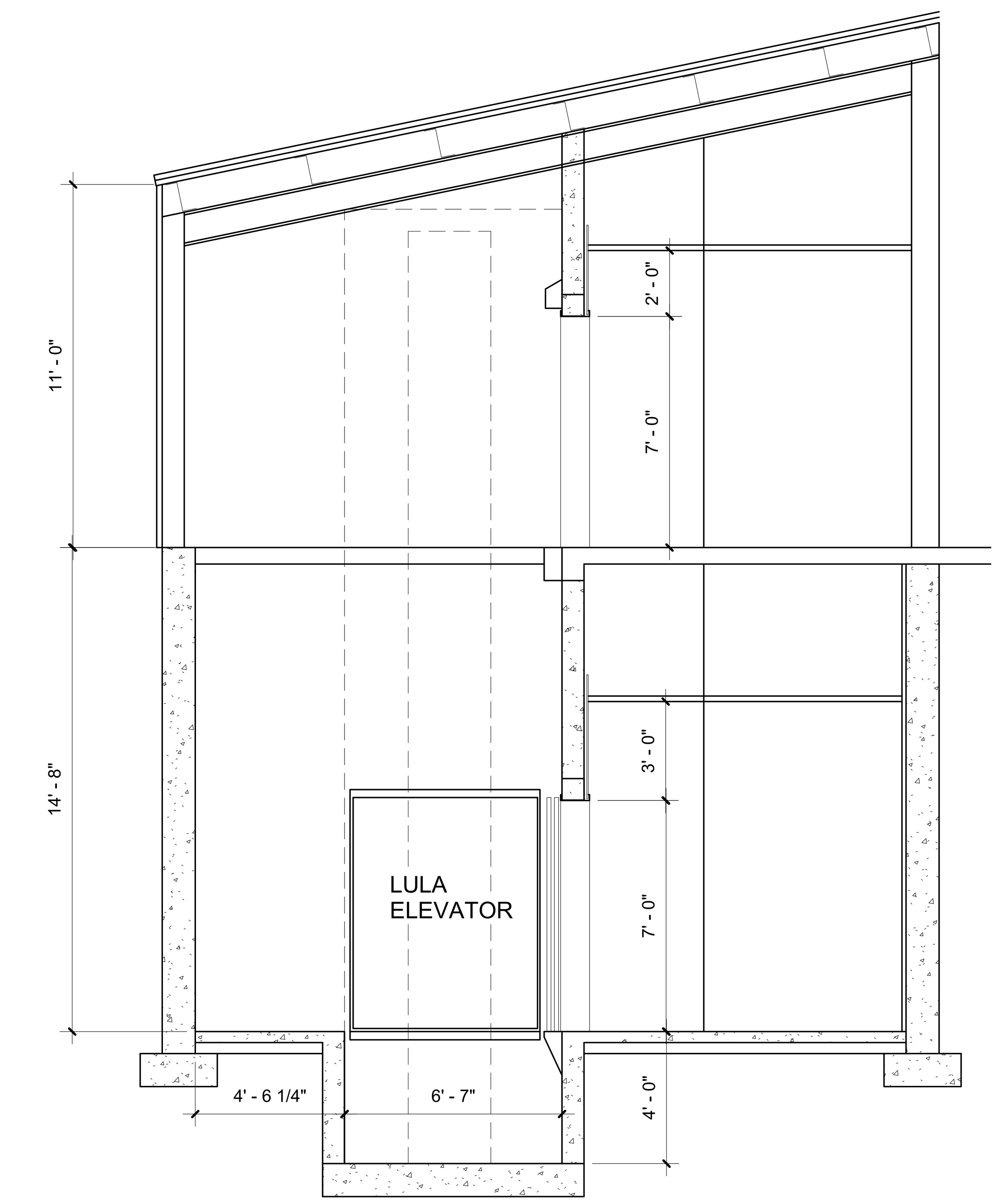
SCALE: 1/4" = 1'-0"



STAIR SECTION

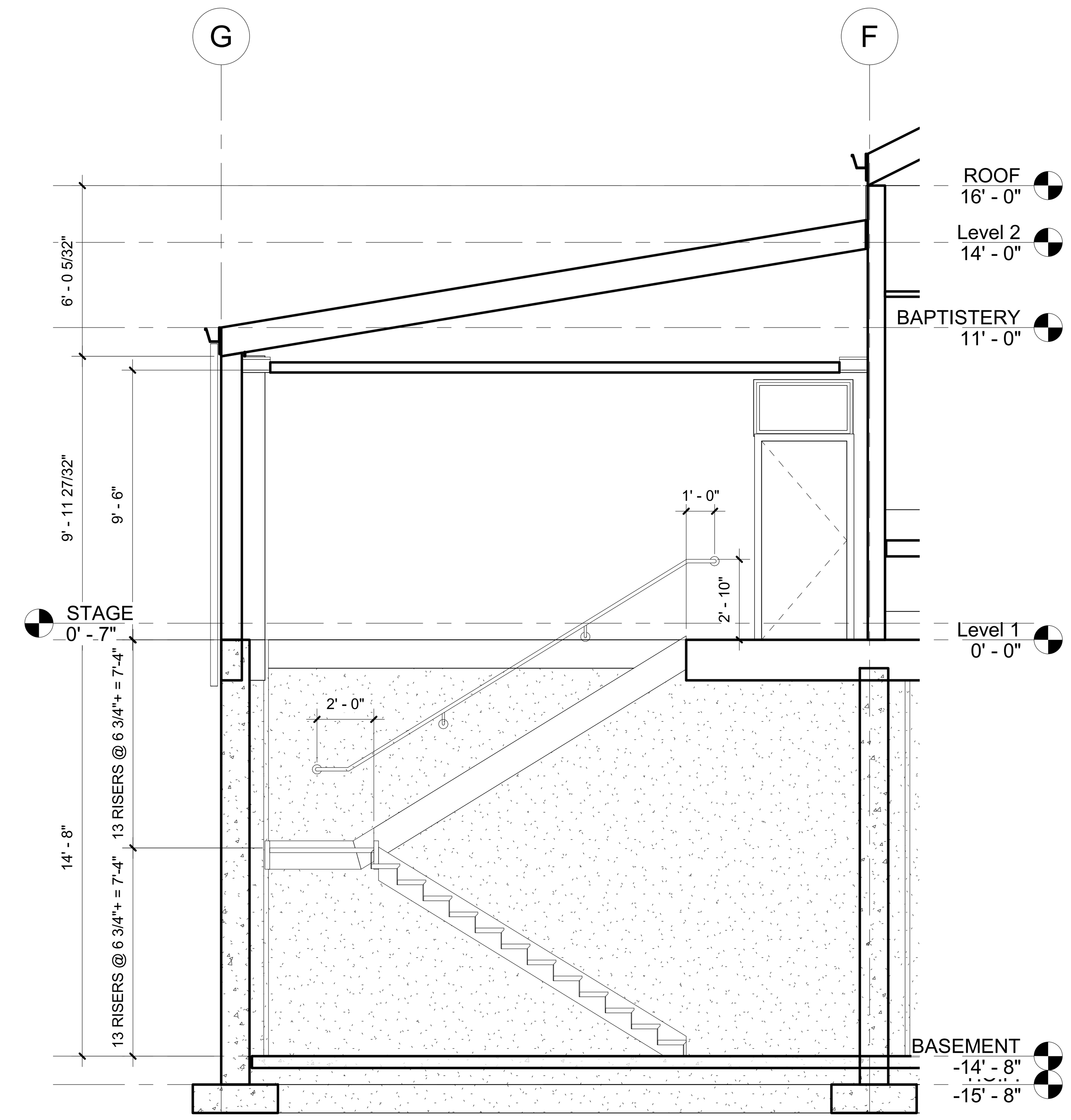
SCALE: 1/4" = 1'-0"

3 A104



ELEVATOR SECTION

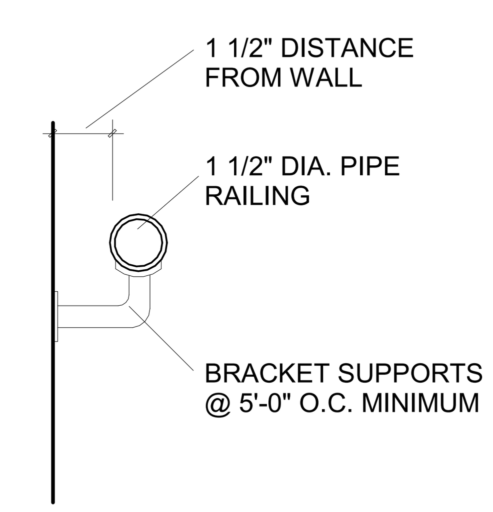
SCALE: 1/4" = 1'-0"



STAIR SECTION

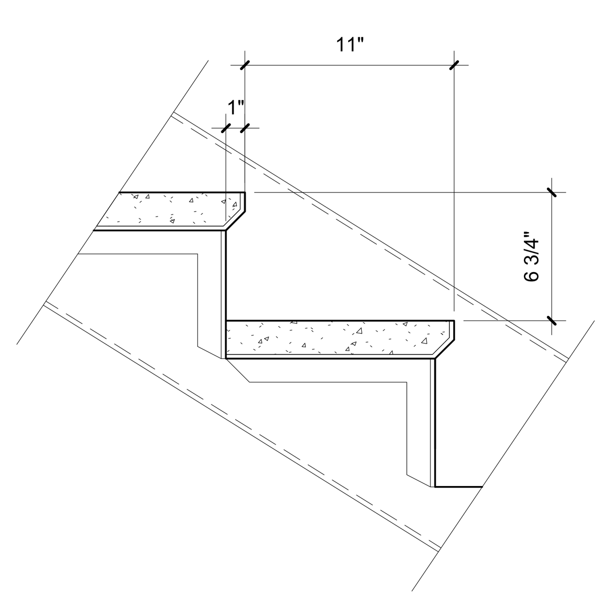
SCALE: 1/4" = 1'-0"

3 A104



HANDRAIL DETAIL

SCALE: 3" = 1'-0"



RISER & TREAD DETAIL

SCALE: 1 1/2" = 1'-0"

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Date:

Revisions:

Certificat

Project Title:
Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

ELEVATOR & STAIR PLANS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

Scale: *As indicated*

Drawn: *Author*

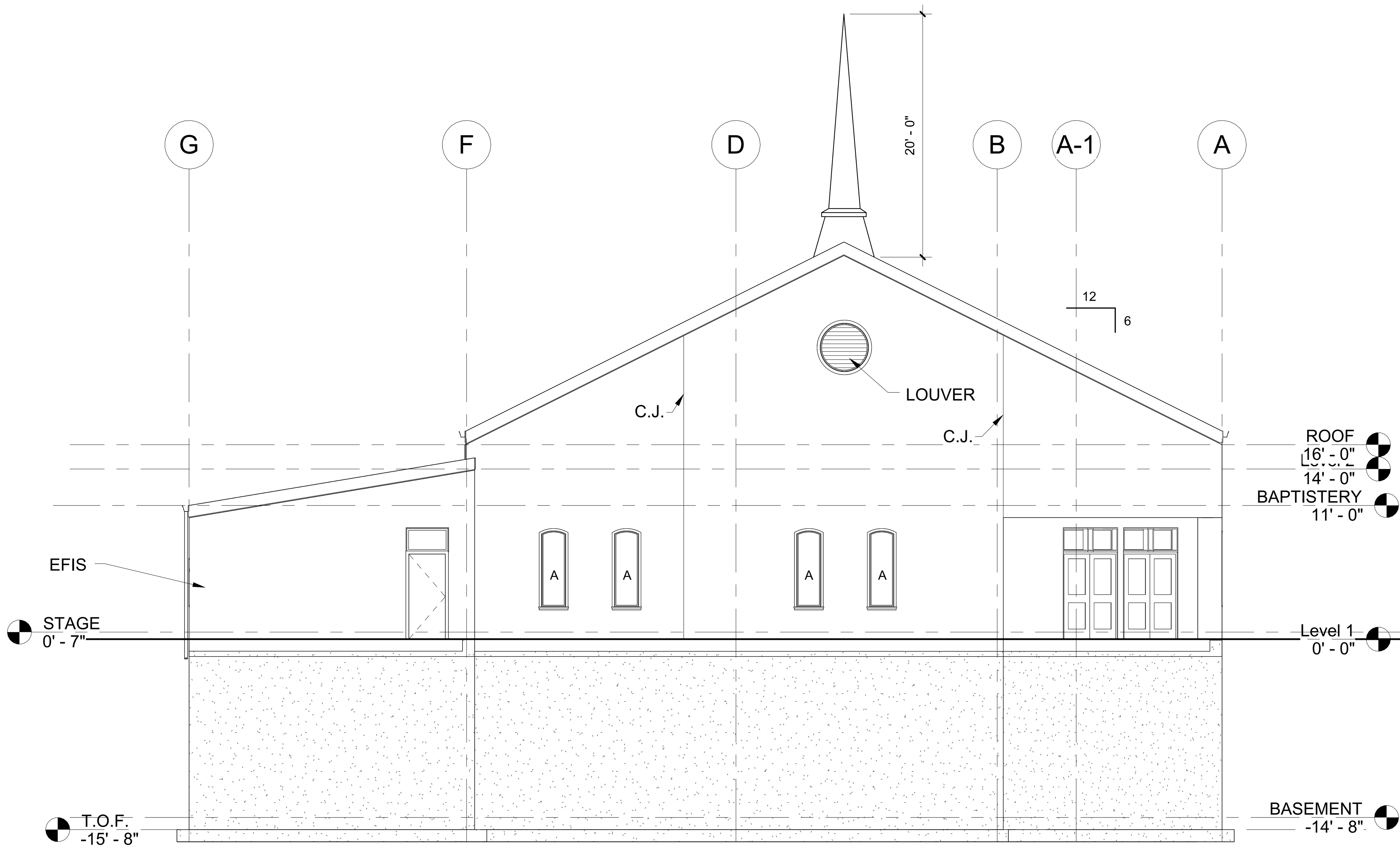
Checked: *Checker*

File No.

Drawing No.

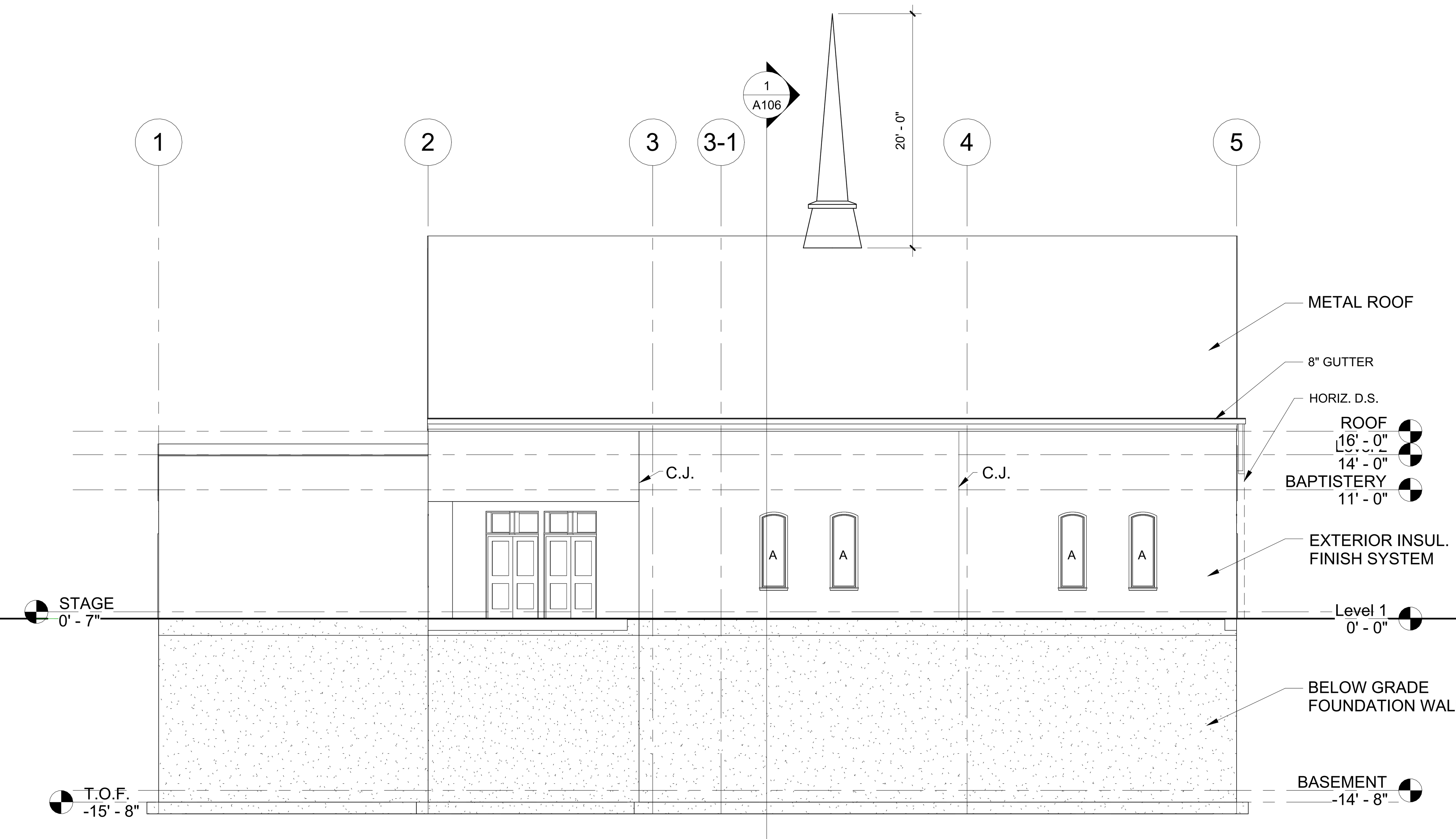
A104

of



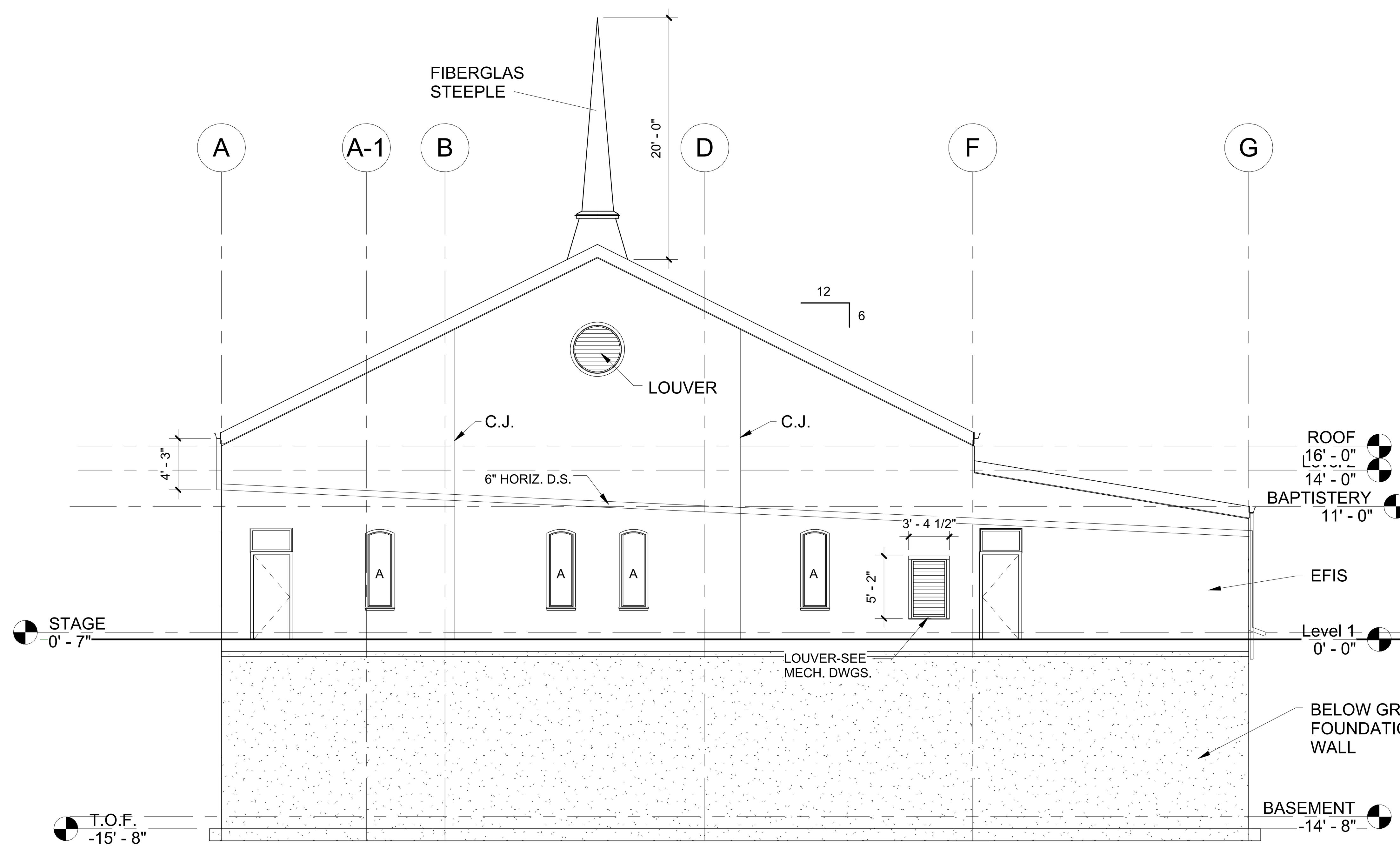
SOUTH ELEVATION

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



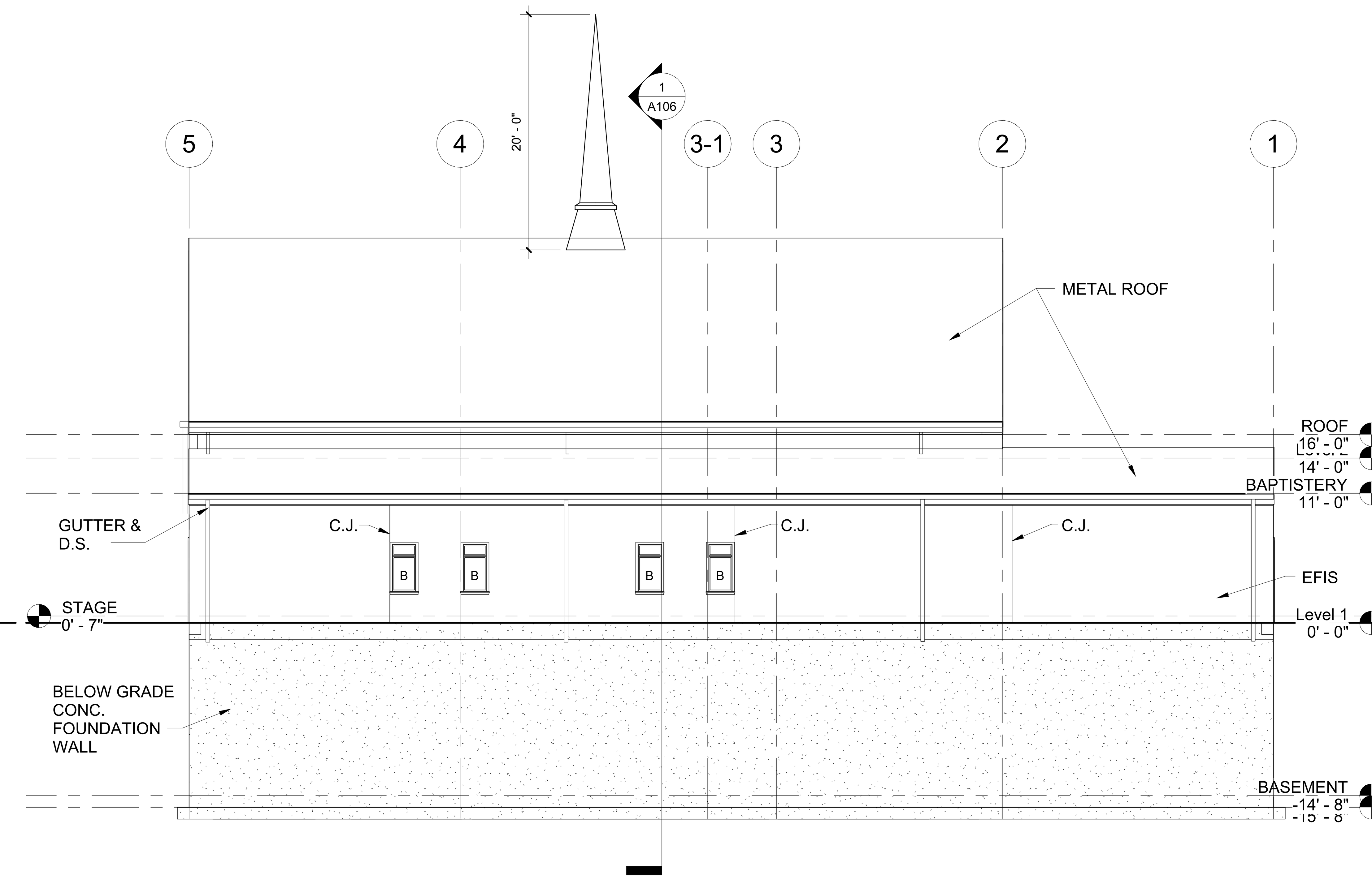
EAST ELEVATION

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



NORTH ELEVATION

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



WEST ELEVATION

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

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Date:

Revisions:

Certificat

ARCHITECTURAL REGISTRATION No. 6849-R PHILIP AARON LACY STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BUILDING ELEVATIONS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

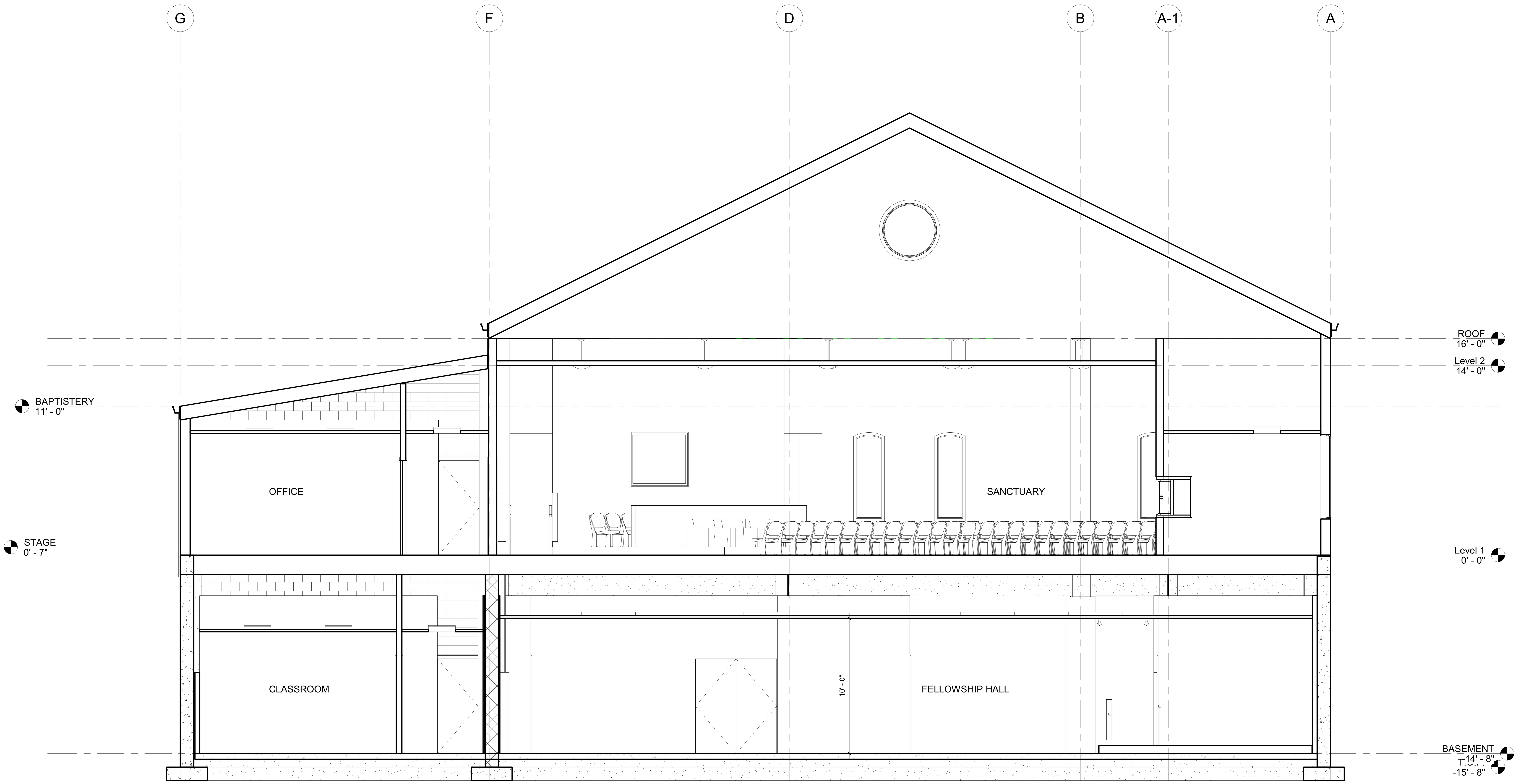
Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date:	SEPT. 14, 2023
Scale:	1/8" = 1'-0"
Drawn:	Author
Checked:	Checker
File No.	D:\NVUI_ARCH\Iglesia VNUI.rvt

Drawing No.

A105

of



BUILDING SECTION

SCALE: 1/4" = 1'-0"

1
A106

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Date:

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ARCHITECTURAL REGISTRATION BOARD
6849-R
PHILIP AARON LACY
STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BUILBING SECTION

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

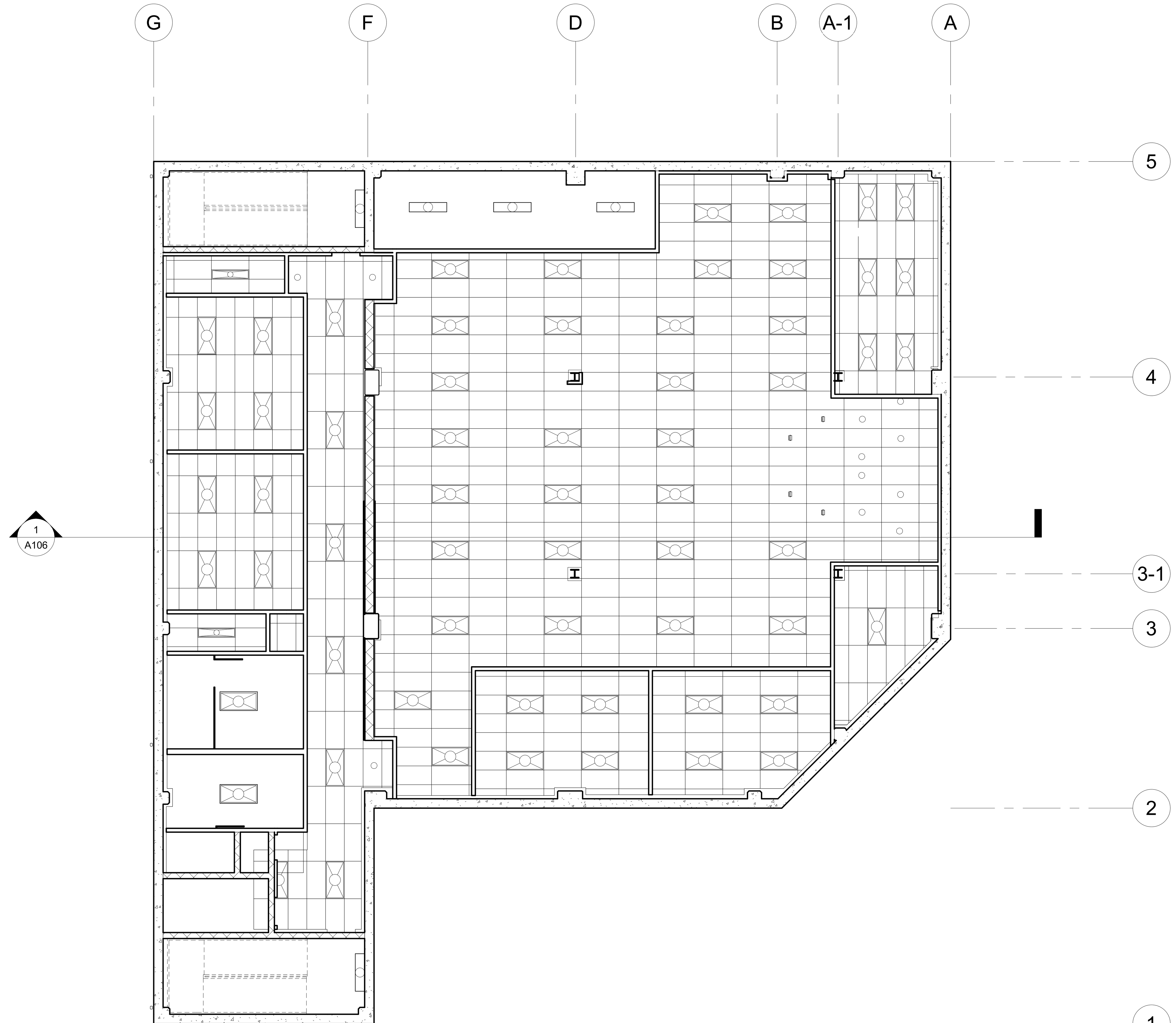
Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date:	JULY 5, 2022
Scale:	*1/4" = 1'-0"*
Drawn:	*PAL*
Checked:	*PAL*
File No.	*C:\Users\phili\Documents\Iglesia VNUI\Iglesia VNUI.rvt*

Drawing No.

A106

of



BASEMENT CEILING PLAN

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

"I hereby certify that these documents were prepared by or approved by me and that I am a duly licensed architect under the laws of the State of Maryland. License No. 6849 expiration date 11-18-25"

Date:

Revisions:

Certificat

ARCHITECTURAL REGISTRATION BOARD
6849-R
PHILIP AARON LACY
STATE OF MARYLAND

Project Title:
Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BASEMENT CEILING PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

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

Drawn: *Author*

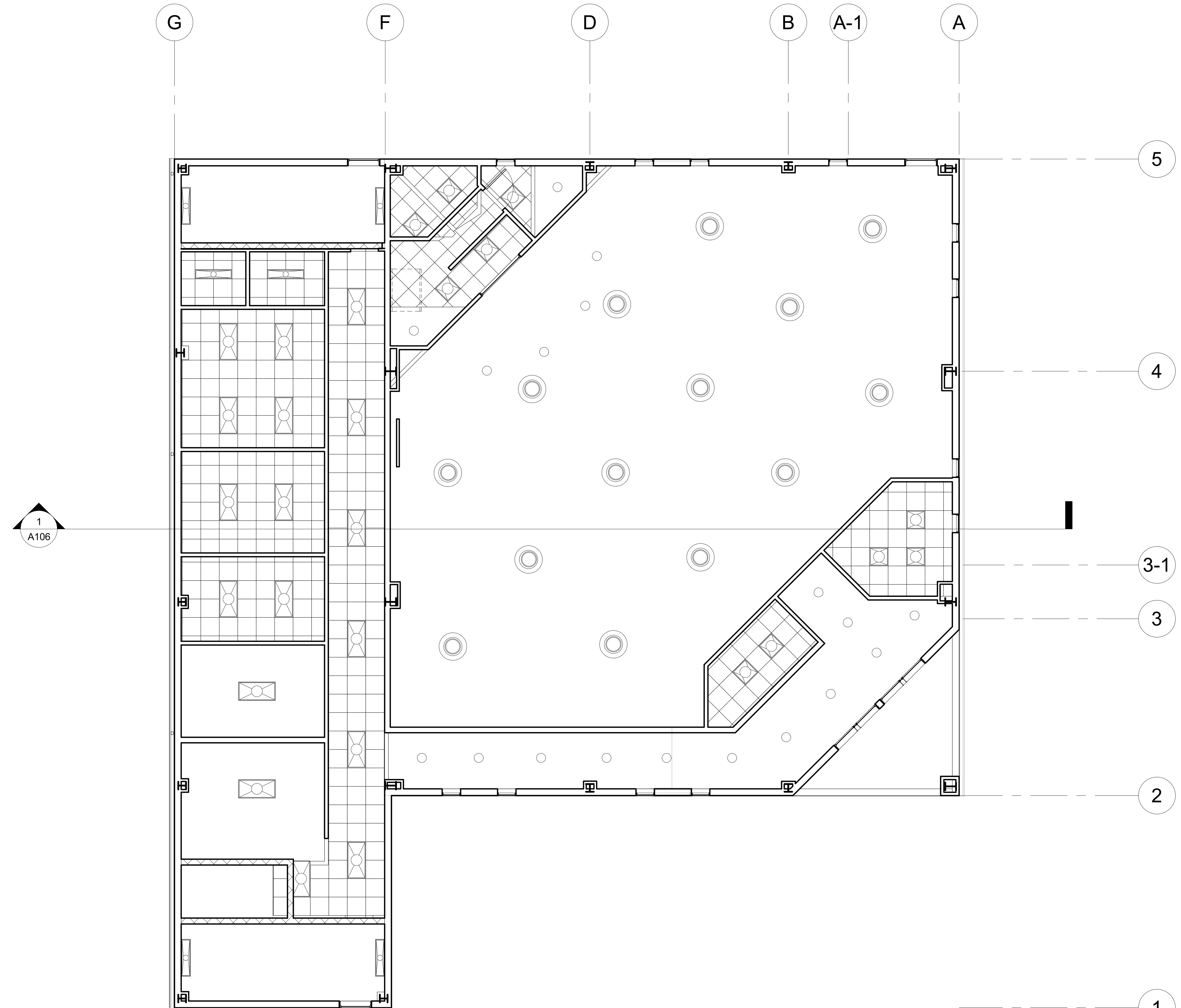
Checked: *Checker*

File No.

Drawing No.

A107

of



FIRST FLOOR CEILING PLAN

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

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Date:

Revisions:

Certificat'

Project Title:

Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

FIRST FLOOR CEILING PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date:	JULY 5, 2022
Scale:	*1/8" = 1'-0"*
Drawn:	*Author*
Checked:	*Checker*
File No.	[illegible]

Drawing No.

A108

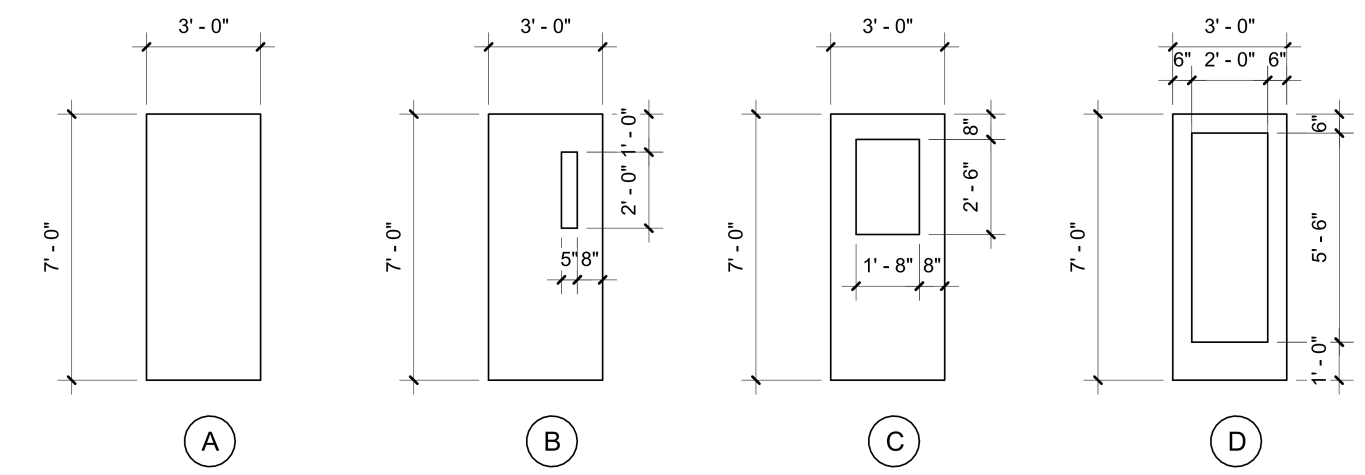
of

DOOR SCHEDULE

DOOR NO.	SIZE	MATERIAL	TYPE	HEAD	JAMB	THRESHOLD	FRAME	RATING	HARDWARE	REMARKS
BASEMENT										
B01	3'-0"x7'-0"x1 3/4"	METAL	B	7	8		1	1 HR. 'B' LABEL	HW-4	
B02	3'-0"x7'-0"x1 3/4"	WOOD	B	1	2		1		HW-4	
B03	3'-0"x7'-0"x1 3/4"	WOOD	C	1	2		1		HW-7	
B04	PR. 3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		2		HW-8	
B05	3'-0"x7'-0"x1 3/4"	WOOD	C	1	2		1		HW-7	
B06	PR. 3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		2		HW-8	
B07	2'x8"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-6	
B08	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-5	
B09	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-5	
B10	3'-0"x7'-0"x1 3/4"	METAL	B	7	8		1	1 HR. 'B' LABEL	HW-4	
B11	3'-0"x7'-0"x1 3/4"	WOOD	B	1	2		1		HW-4	
B12	PR. 3'-0"x7'-0"x1 3/4"	METAL	A	1	2		1		HW-8	
B13	3'-0"x7'-0"x1 3/4"	METAL	A	1	2		1		HW-6	
B14	3'-0"x7'-0"x1 3/4"	WOOD	B	1	2		1		HW-7	
B15	PR. 3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-8	
B16	3'-0"x7'-0"x1 3/4"	WOOD	C	1	2		1		HW-7	
B17	3'-0"x7'-0"x1 3/4"	WOOD	C	1	2		1		HW-7	
B18	PR. 3'-0"x7'-0"x1 3/4"	WOOD	B	5	6		2		HW-9	
FIRST FLOOR										
101	3'-0"x7'-0"x1 3/4"	METAL	B	7	8		1	1 HR. 'B' LABEL	HW-4	
101A	3'-0"x7'-0"x1 3/4"	METAL	A	9	10		3		HW-2	
102	3'-0"x7'-0"x1 3/4"	WOOD	B	3	4		1		HW-10	
103	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-11	
104	2'x8"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-6	
105	2'x8"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-12	
106	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-11	
107	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-11	
108	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-5	
109	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-5	
110	3'-0"x7'-0"x1 3/4"	METAL	B	7	8		1	1 HR. 'B' LABEL	HW-4	
110A	3'-0"x7'-0"x1 3/4"	METAL	A	9	10		3		HW-2	
111	3'-0"x7'-0"x1 3/4"	WOOD	B	3	4		1		HW-10	
112A	3'-0"x7'-0"x1 3/4"	METAL	D				4		HW-1	
112B	3'-0"x7'-0"x1 3/4"	METAL	D				4		HW-1	
113	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-11	
114	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-7	
115	PR. 3'-0"x7'-0"x1 3/4"	WOOD	B	1	2		2		HW-3	
116	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-12	
117	3'-0"x7'-0"x1 3/4"	WOOD	A	1	2		1		HW-12	
118	3'-0"x7'-0"x1 3/4"	METAL	A	9	10		3		HW-2	
119	3'-0"x7'-0"x1 3/4"	WOOD	B	3	4		1		HW-11	

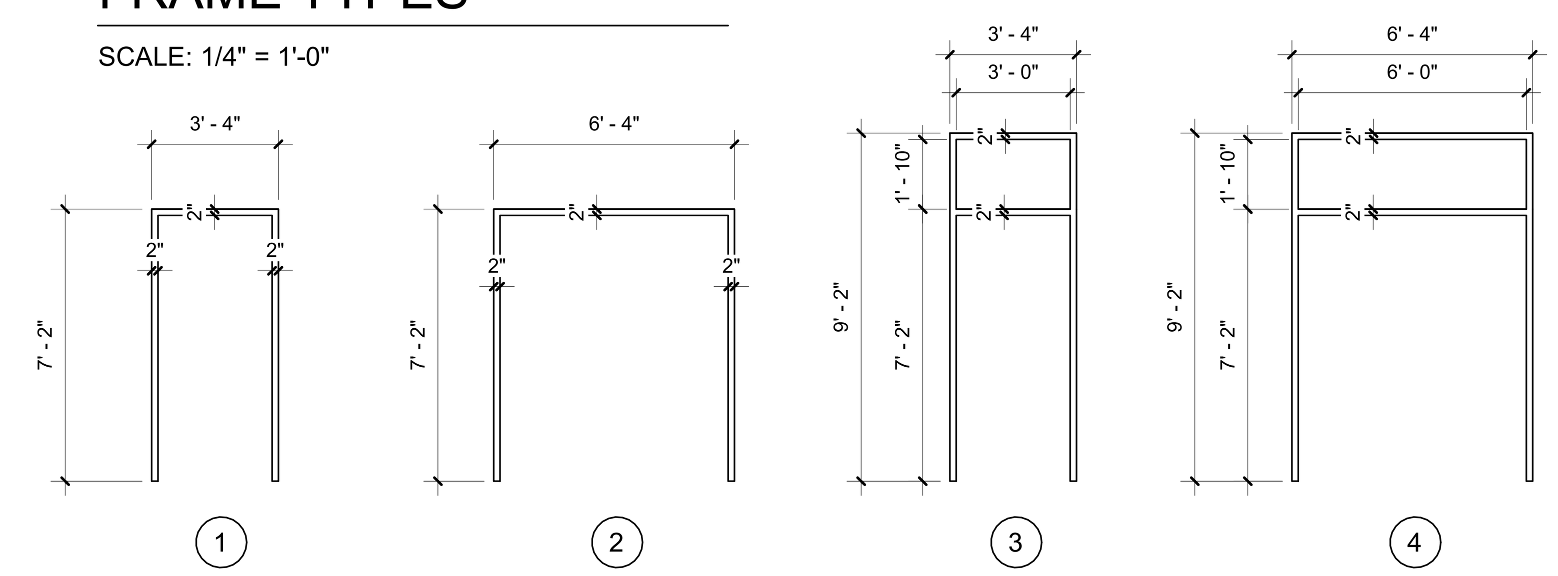
DOOR TYPES

SCALE: 1/4" = 1'-0"



FRAME TYPES

SCALE: 1/4" = 1'-0"



HARDWARE SETS

HW-1

OFFSET PIVOTS
OVERHEAD CLOSERS
EXIT DEVICES
CYLINDERS
WEATHER SEAL
DOOR SWEEPS
THRESHOLD
FLOOR STOPS

HW-2

HINGES
EXIT DEVICE
CLOSER-PUSH SIDE MOUNTING
KICK PLATE
SILENCERS
WEATHER SEAL
DOOR SWEEPS
THRESHOLD
FLOOR STOP

HW-3

HINGES
EXIT DEVICES
CYLINDER
OVERHEAD CLOSERS
OVERHEAD STOP
PULL BAR
KICK PLATE
SILENCERS
WALL STOPS

HW-4

HINGES
EXIT DEVICE
CLOSER-PUSH SIDE MOUNTING
KICK PLATE
SILENCERS

HW-5

HINGES
CLOSER-PULL SIDE MOUNTING
PUSH PLATE
PULL PLATE
KICK PLATE
SILENCERS
WALL STOP

HW-6

HINGES
LOCKSET-STOREROOM FUNCTION
OVERHEAD CLOSER
SILENCERS
FLOOR STOP

HW-7

HINGES
LOCKSET-CLASSROOM FUNCTION
CLOSER
WALL STOP
SILENCERS

HW-8

HINGES
LOCKET-STOREROOM FUNCTION
FLUSH BOLTS
OVERHEAD STOPS
DUST-PROOF STRIKE
SILENCERS

HW-9

HINGES
OVERHEAD CLOSERS
LOCKSET-CLASSROOM FUNCTION
DUMMY TRIM
FLUSH BOLTS
OVERHEAD STOPS
SILENCERS
FLOOR STOPS

HW-10

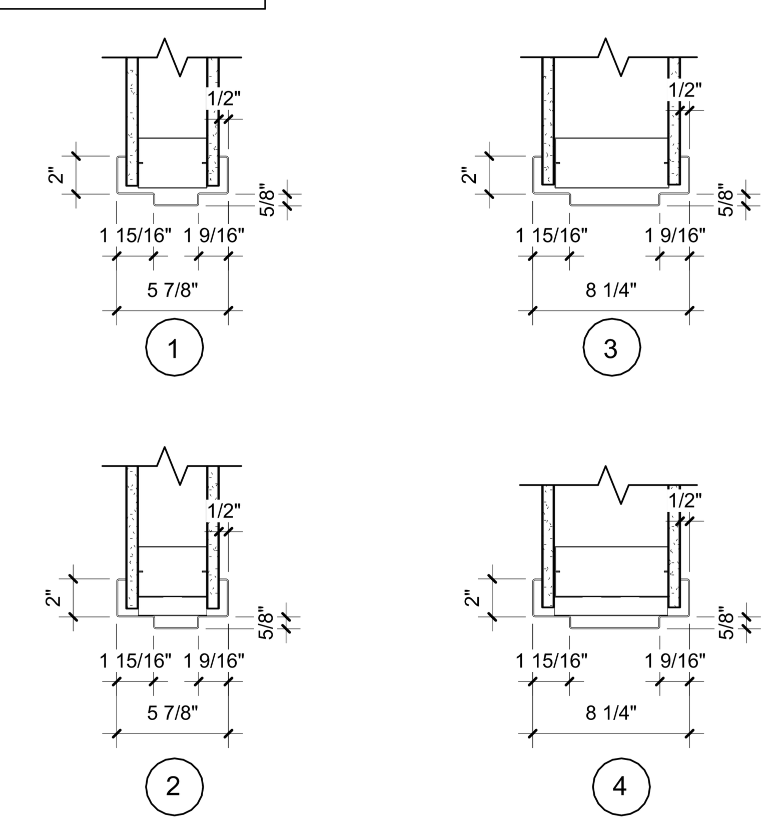
HINGES
EXIT DEVICE
CLOSER-PUSH SIDE MOUNTING
KICK PLATE
SILENCERS
WALL STOP

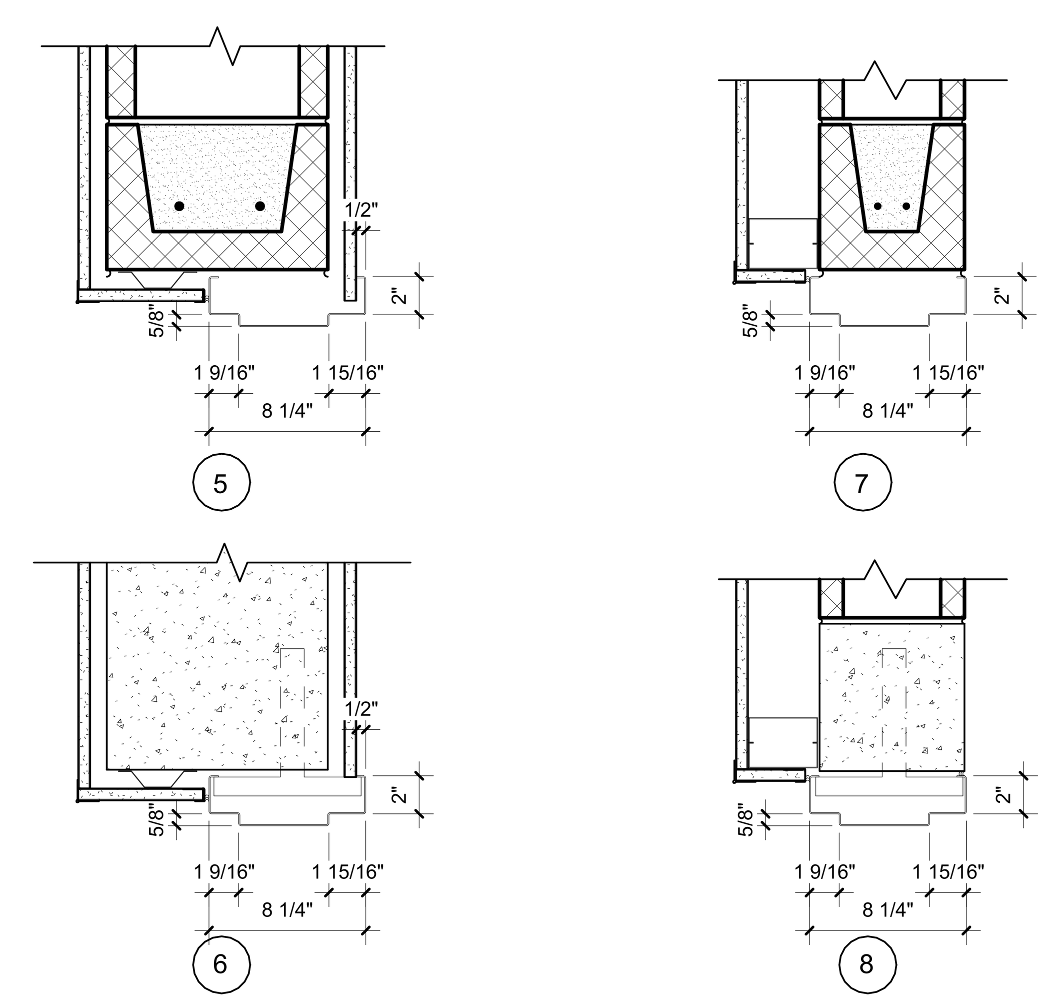
HW-11

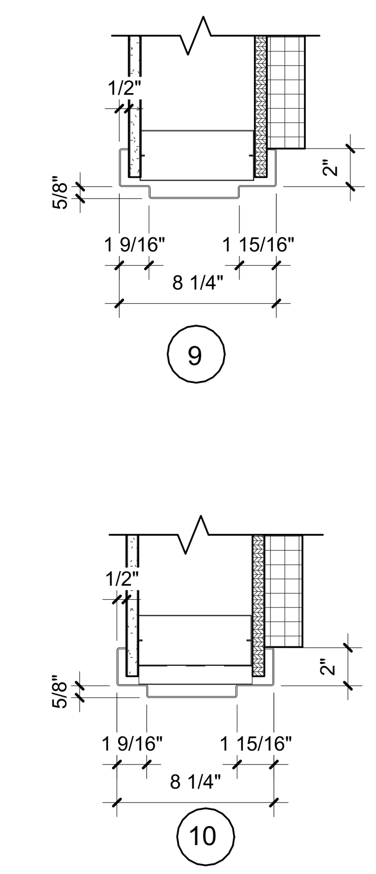
HINGES
LOCKSET-OFFICE FUNCTION
CLOSER-PULL SIDE MOUNTING
WALL STOP
SILENCERS

HW-12

HINGES
LATCHSET-PRIVACY FUNCTION
SILENCERS
WALL STOP







"I hereby certify that these drawings were prepared or approved by me and that I am a duly licensed architect under the laws of the State of Maryland. License No. 6849 expiration date 11-18-25"

Date:

Revisions:

Certificat

ARCHITECTURAL REGISTRATION BOARD 6849-R PHILIP AARON LACY STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

DOOR SCHEDULE & DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
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6239 Executive Boulevard
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Phone: 301-816-0648

Mechanical & Electrical Engineer:
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Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

Scale: *As indicated*

Drawn: *Author*

Checked: *Checker*

File No.

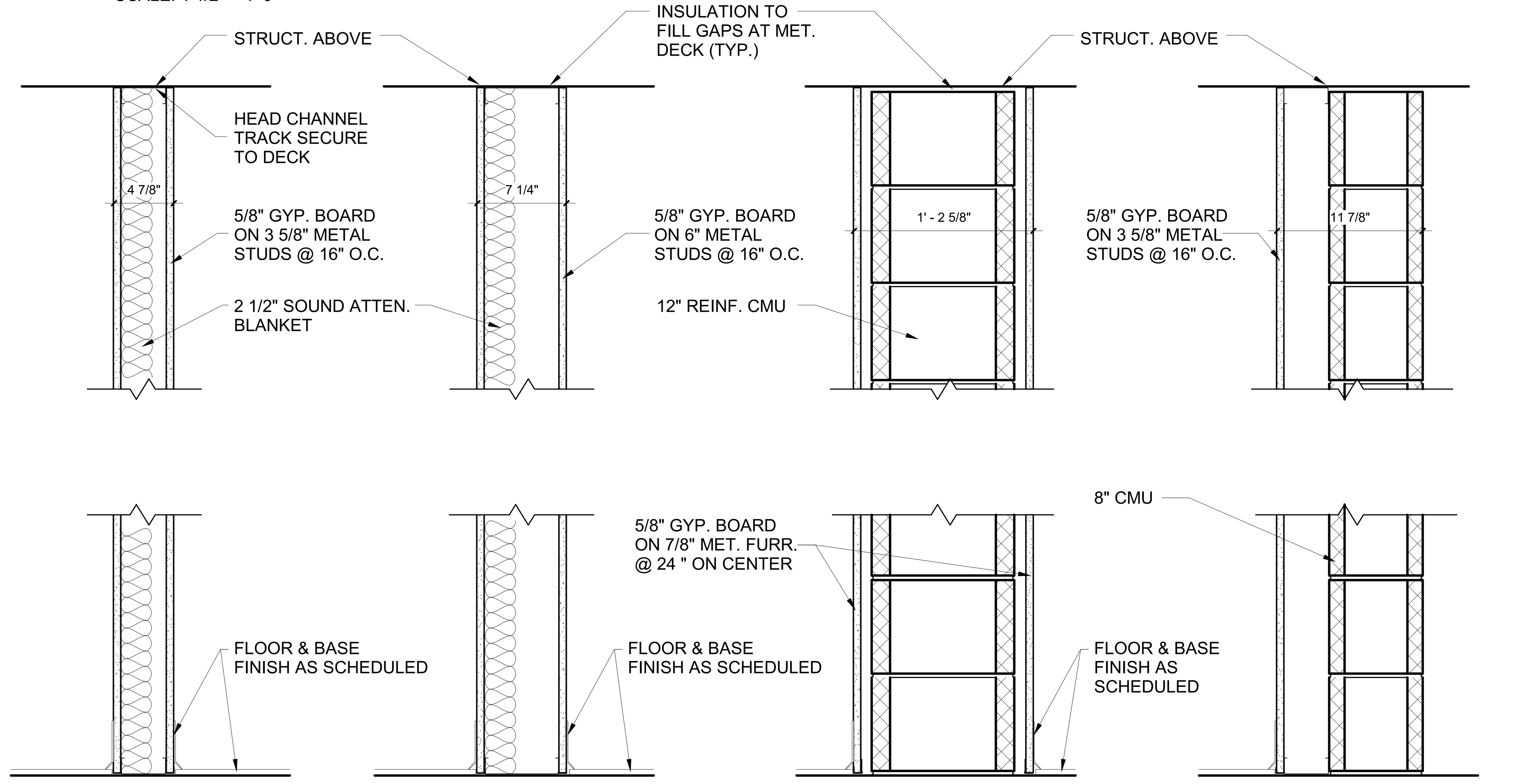
Drawing No.

A109

of

PARTITION TYPES

SCALE: 1 1/2" = 1'-0"

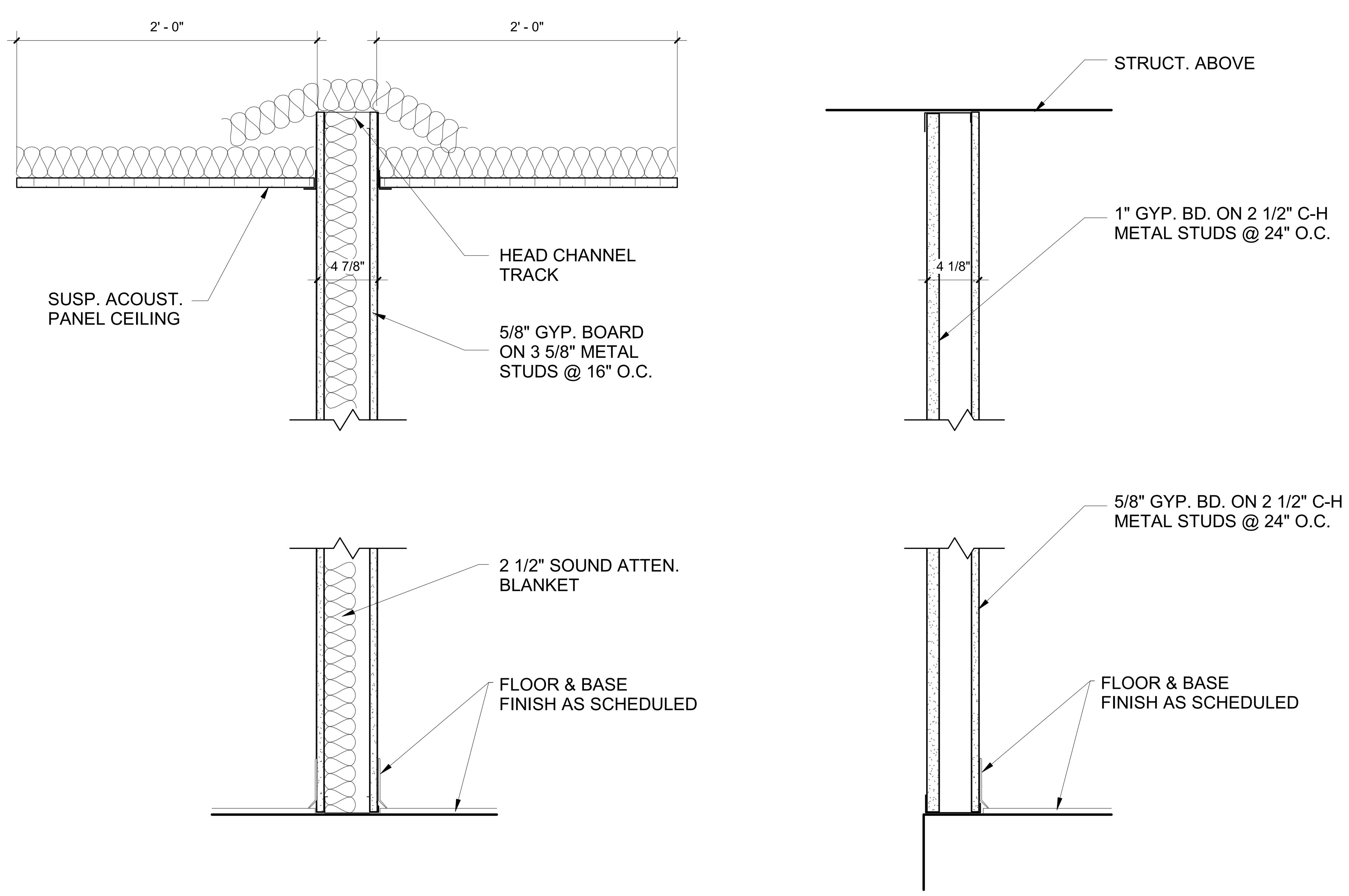


1 PARTITION DET.
1-HR. RATED UL. DES. NO. U465

2 PARTITION DET.
1-HR. RATED UL. DES. NO. U465

3 PARTITION DET.
1-HR RATED UL. DES. NO. U910

4 PARTITION DET.
1-HR RATED UL. DES. NO. U912



5 PARTITION DET.

6 PARTITION DET.
1-HR RATED UL. DES. NO. U415

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.	REMARKS
BASEMENT							
B01	STAIR 1	CONC.	NONE	CONC. / MAS.	METAL	13'-8" +/-	PROVIDE CONC. HARDNER & SEALER
B02	CORRIDOR	VINYL	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B03	CLASSROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B04	STORAGE	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
B05	CLASSROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B06	STORAGE	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
B07	JANITOR CLOSET	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
B08	MEN	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
B09	WOMEN	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
B10	STAIR 2	CONC.	NONE	CONC/ MAS/PTD	METAL	13'-8" +/-	PROVIDE CONC. HARDNER & SEALER
B11	FELLOWSHIP HALL	VINYL	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B12	MECH. ROOM	CONC.	NONE	PTD. GYP. BD.	NONE	13'-8" +/-	PROVIDE CONC. HARDNER & SEALER
B13	ELECT. ROOM	CONC.	NONE	PTD. GYP. BD.	NONE	13'-8" +/-	PROVIDE CONC. HARDNER & SEALER
B14	WARMING PANTRY	Q. TILE	Q. TILE	PTD. GYP. BD.	ACOUST.	10'-0"	PROVIDE MOIST. RES. ACOUST. TILE
B15	STORAGE	VINYL	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B16	CLASSROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B17	CLASSROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	10'-0"	
B18	STAGE	WOOD	NONE	PTD. GYP. BD.	ACOUST.	9'-5"	
B19	CONTROL ROOM	CONC.	NONE	MAS/GYP B/ PTD	PTD.GYP.BD.	9'-6"	PROVIDE CONC. HARDNER & SEALER
FIRST FLOOR							
101	STAIR 1	CONC.	NONE	MAS/GYP B/ PTD	PTD.GYP.BD.	9'-6"	PROVIDE CONC. HARDNER & SEALER
102	CORRIDOR	VINYL	VINYL	PTD. GYP. BD.	ACOUST.	9'-0"	
103	PASTOR STUDY	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
104	CLOSET	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
105	TOILET	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
106	1st. LADY STUDY	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
107	GENERAL OFFICE	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	8'-0"	
108	MEN	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
109	WOMEN	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	
110	STAIR 2	CONC.	NONE	MAS/GYP B/ PTD	PTD.GYP.BD.	9'-6"	PROVIDE CONC. HARDNER & SEALER
111	CORRIDOR	STN. TILE	STN. TILE	PTD. GYP. BD.	PTD.GYP.BD.	10'-0"	
112	ENTRANCE FOYER	STN. TILE	STN. TILE	PTD. GYP. BD.	PTD.GYP.BD.	10'-0"	
113	A/V ROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	9'-0"	
114	CRY ROOM	CARPET	VINYL	PTD. GYP. BD.	ACOUST.	9'-0"	
115	SANCTUARY	CARPET	VINYL	PTD. GYP. BD.	PTD.GYP.BD.	14'-0"	
116	CHANGE ROOM	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	PROVIDE NON-SLIP CERAMIC TILE
117	CHANGE ROOM	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	8'-0"	PROVIDE NON-SLIP CERAMIC TILE
118	PULPIT STAGE	CARPET	VINYL	PTD. GYP. BD.	PTD.GYP.BD.	13'-5"	
119	BAPTISTERY	CER. TILE	CER. TILE	PTD. GYP. BD.	ACOUST.	9'-6"	PROVIDE NON-SLIP CERAMIC TILE

"I hereby certify that these documents were prepared or approved by me and that I am a duly licensed architect under the laws of the State of Maryland. License No. 6849 expiration date 11-18-25"

Date:

Revisions:

Certificati

Project Title:

Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

FINISH SCHEDULE & PARTITION DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Design America Engineering Inc.
14080 Red River Drive
Centreville, Virginia 20121
Phone: 571-220-3239

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

Scale: *As indicated*

Drawn: *Author*

Checked: *Checker*

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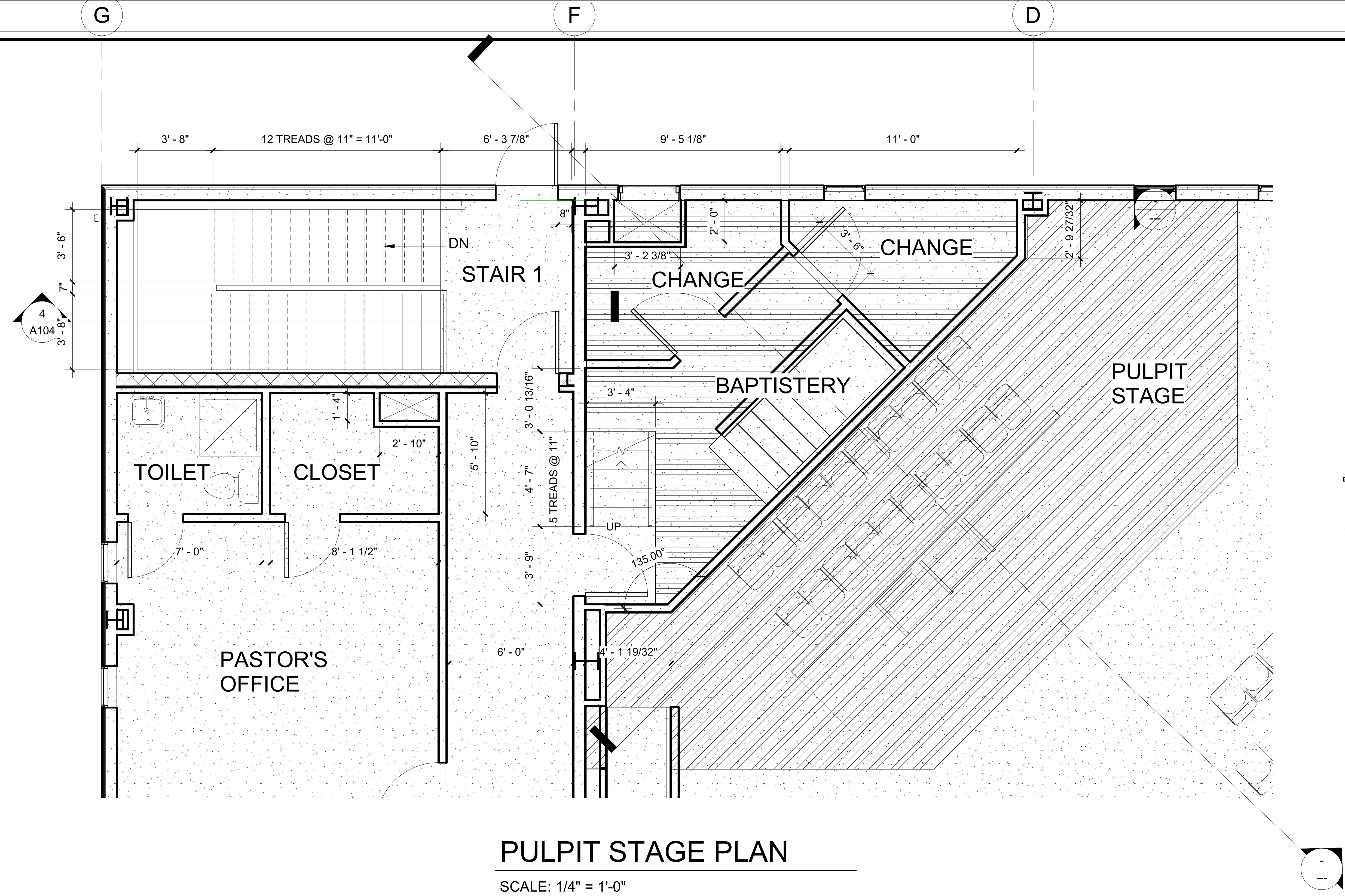
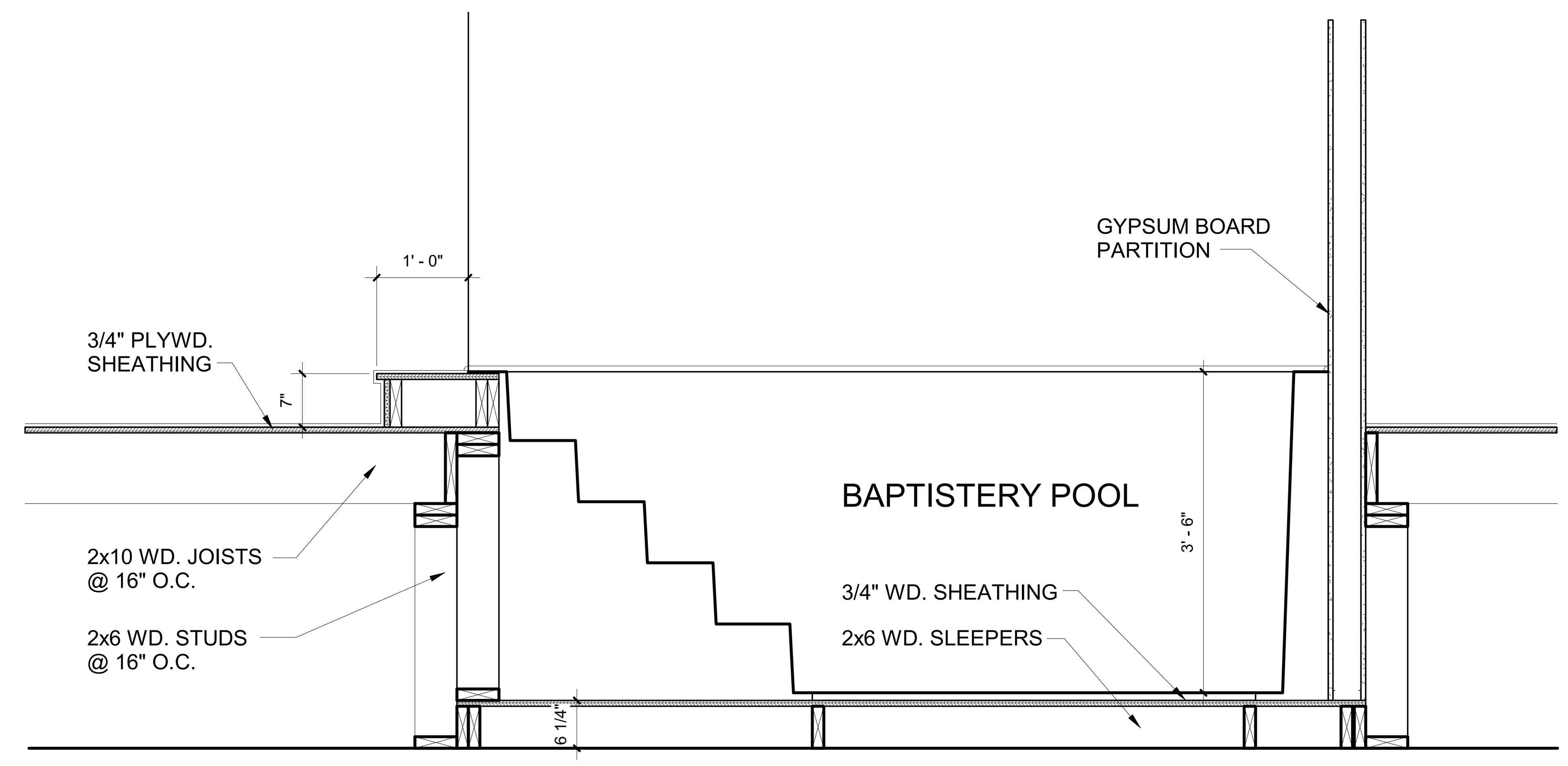
of



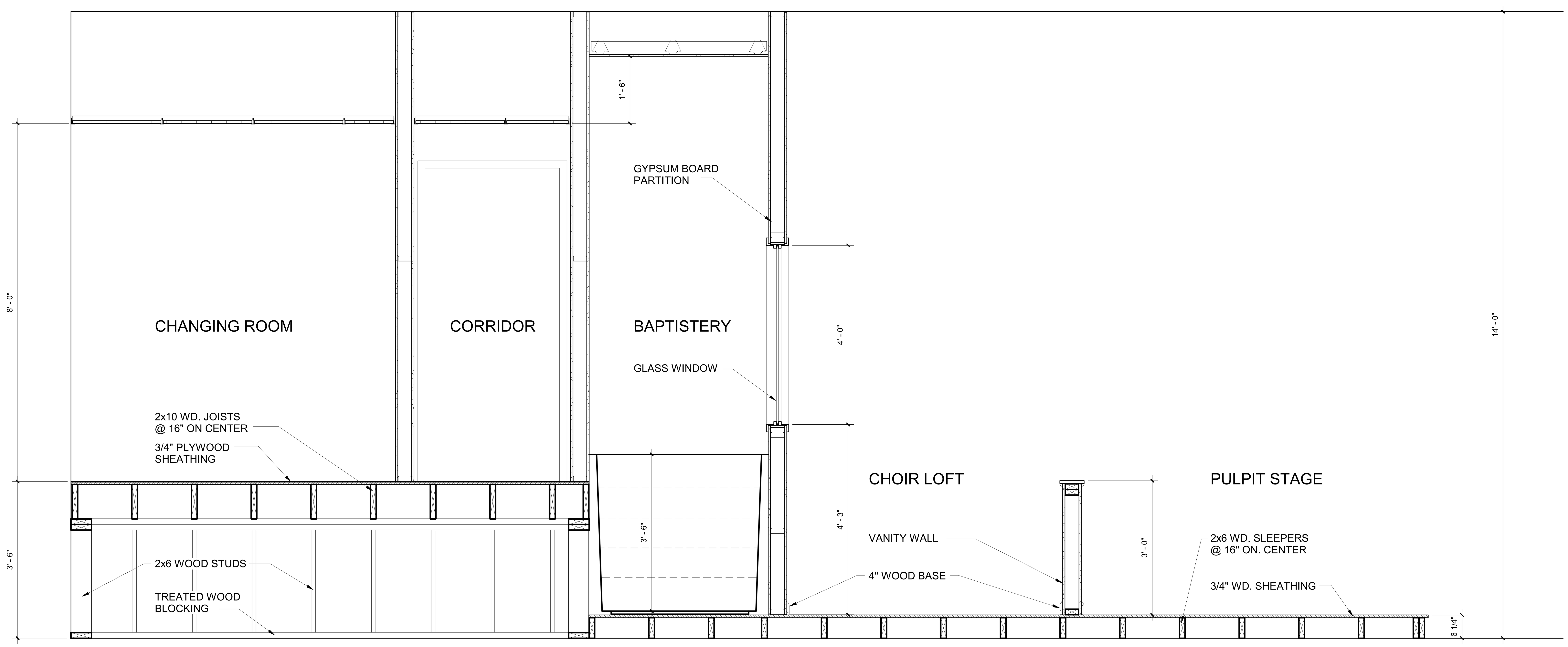
PULPIT STAGE PLAN

SCALE: 1/4" = 1'-0"



BAPTISTERY POOL SECTION

SCALE: 3/4" - 1'-0"



PULPIT STAGE SECTION

SCALE: 3/4" = 1'-0"

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Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

PULPIT STAGE PLAN & DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

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Date:	JULY 5, 2022
Scale:	*As indicated*
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Checked:	Checker
File No.	C:\Users\phil\Documents\Iglesia VN\Iglesia VN.rvt

Drawing No.

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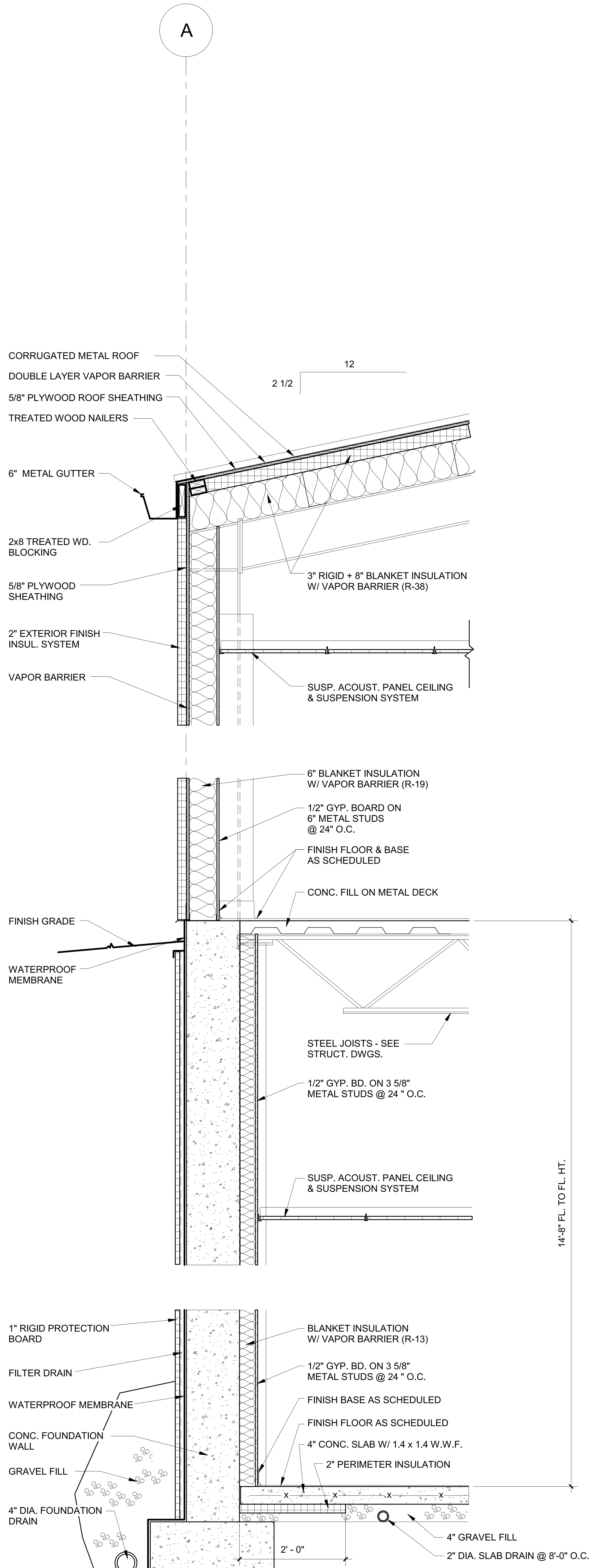
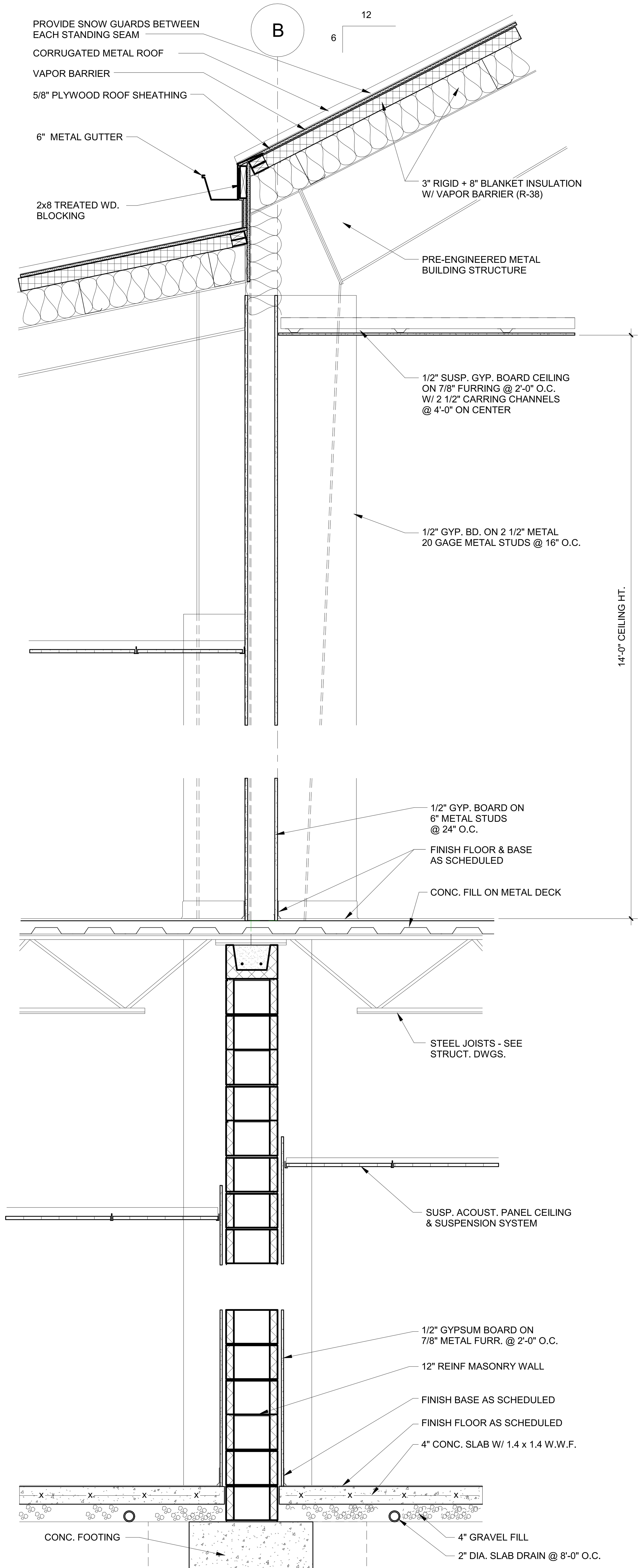


WALL SECTION 1 A112

SCALE: 3/4"=1'-0"



WALL SECTION 2 A112

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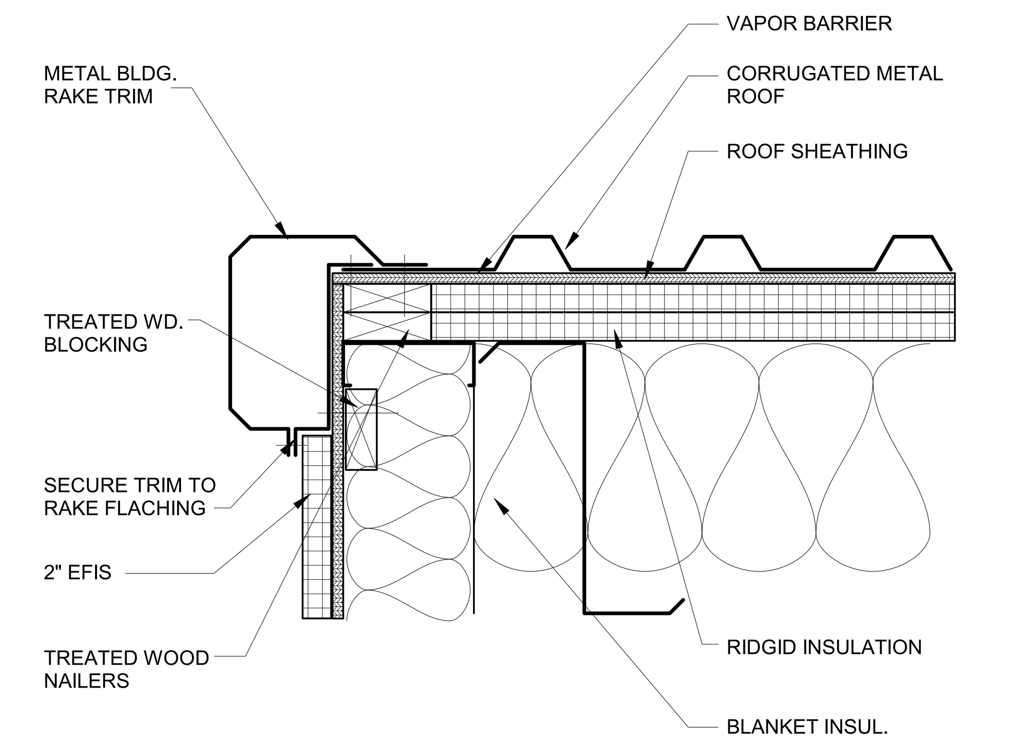

ROOF GABLE DETAIL 3 A112

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Revisions:

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ARCHITECTURAL REGISTRATION BOARD 6849-R PHILIP AARON LACY STATE OF MARYLAND

Project Title:

Iglesia Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

WALL SECTIONS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
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Architect:
Philip Aaron Lacy, Architects
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Clinton, Maryland 20735
Phone: 301-873-5093

Date: JULY 5, 2022

Scale: 3/4" = 1'-0"

Drawn: Author

Checked: Checker

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Drawing No.

A112

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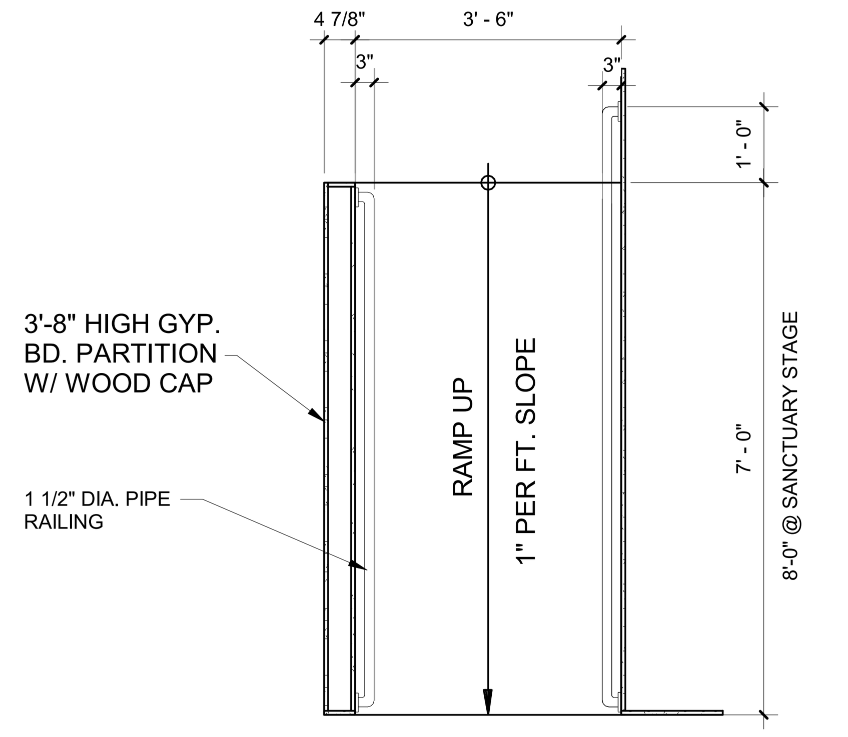
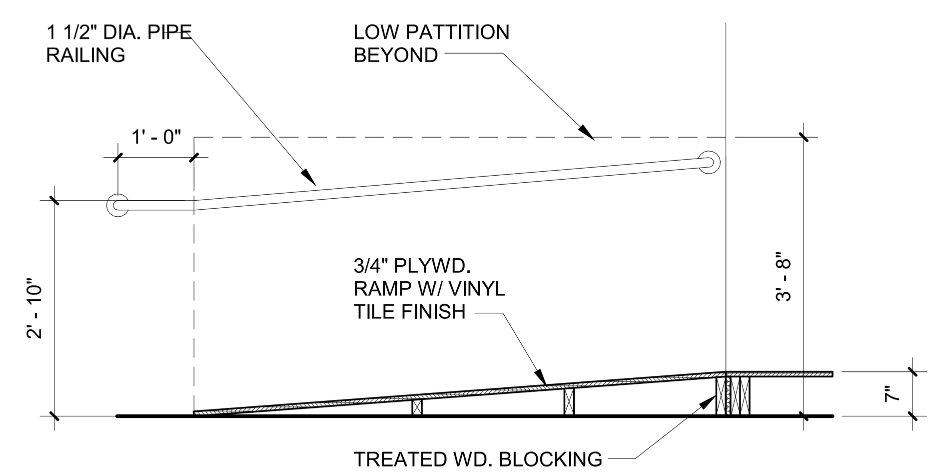
RAMP DETAILS

SCALE: 1/2" = 1'-0"



RAMP PLAN

SCALE: 1/2" = 1'-0"

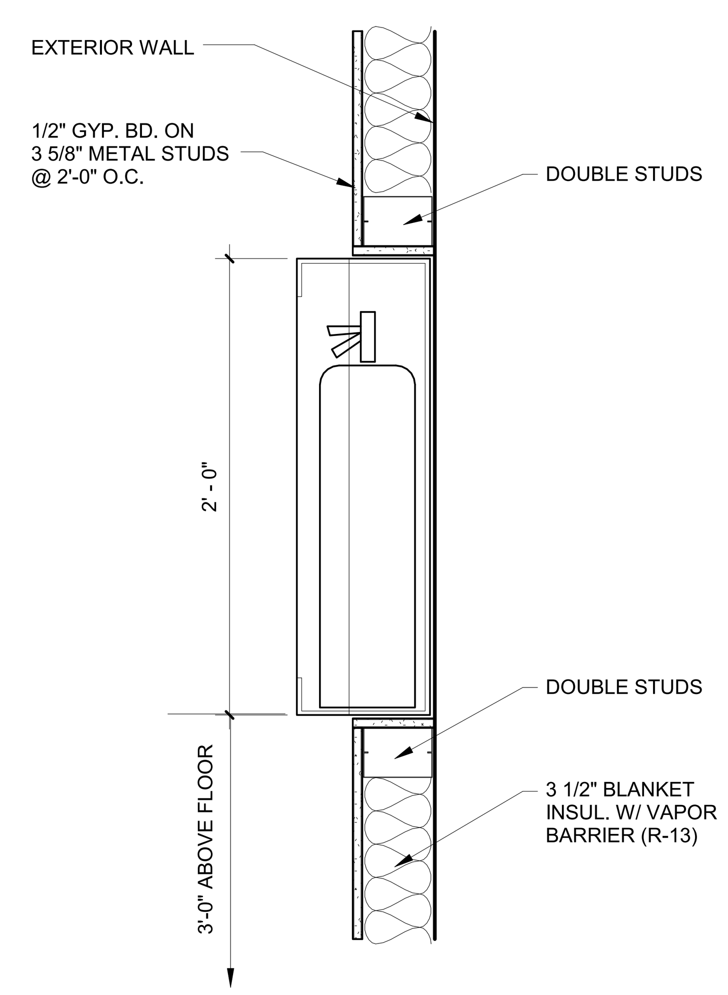


RAMP SECTION

SCALE: 1/2" = 1'-0"

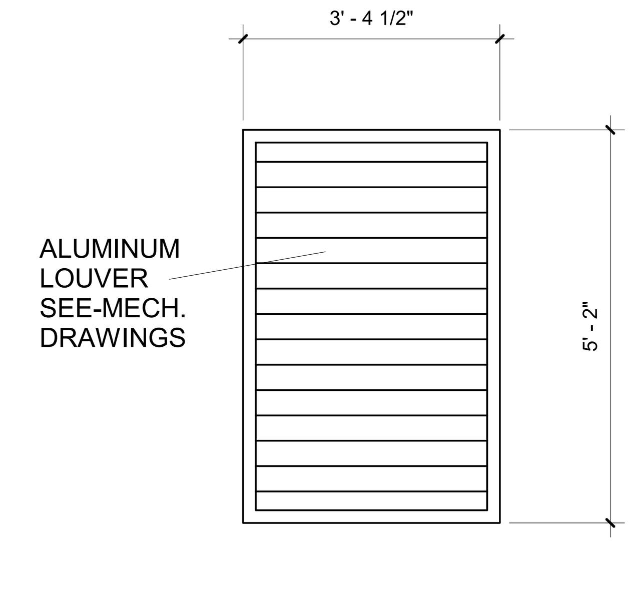
FIRE EXTINGUISHER DETAIL

SCALE: 1 1/2" = 1'-0"



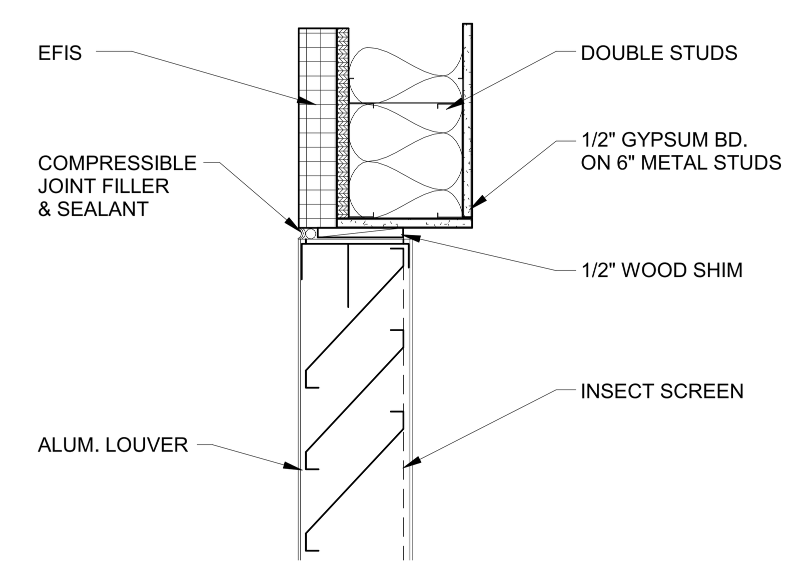
LOUVER ELEVATION

SCALE: 1/2" = 1'-0"

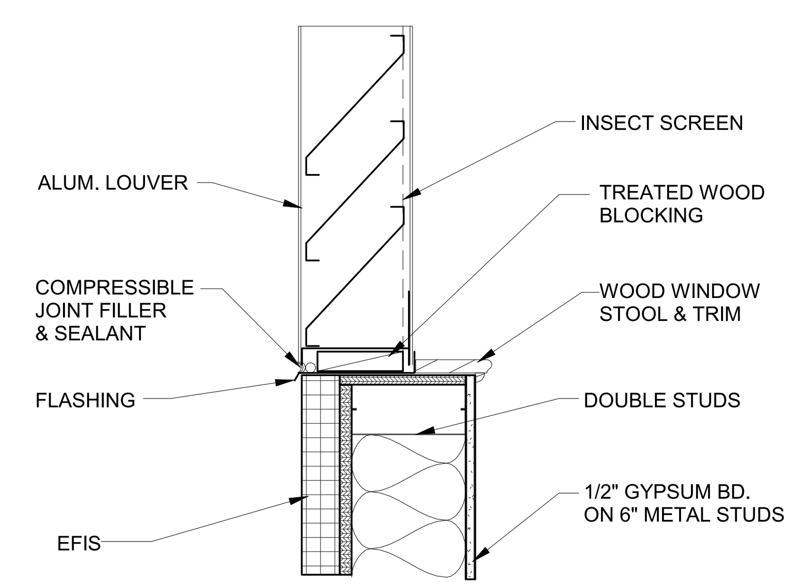


LOUVER DETAILS

SCALE: 1 1/2" = 1'-0"



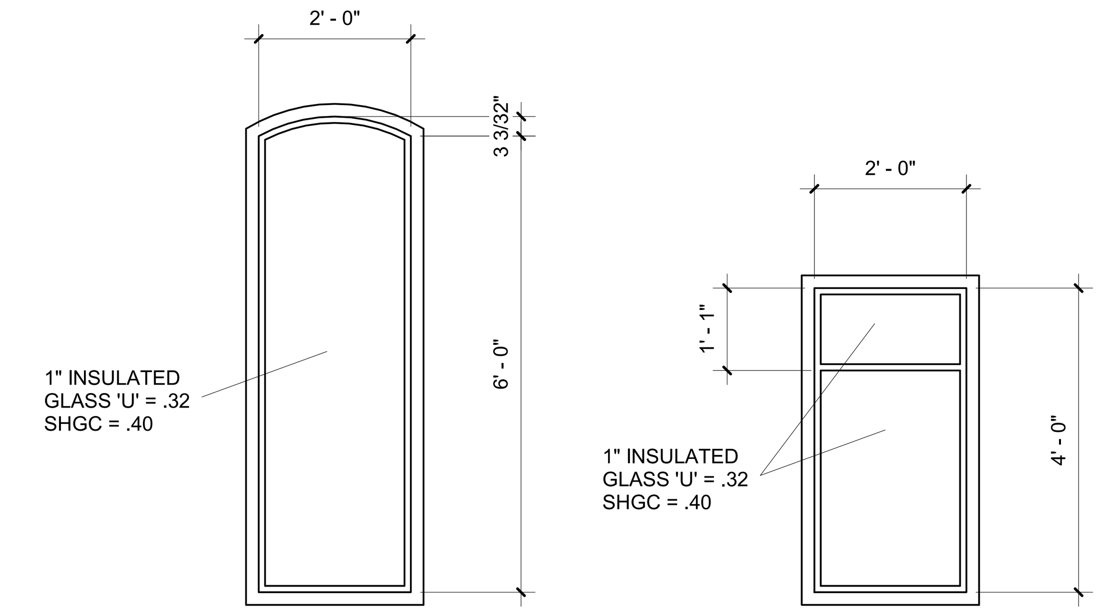
HEAD DETAIL



SILL DETAIL

WINDOW ELEVATIONS

SCALE: 1/2" = 1'-0"



WINDOW TYPE A

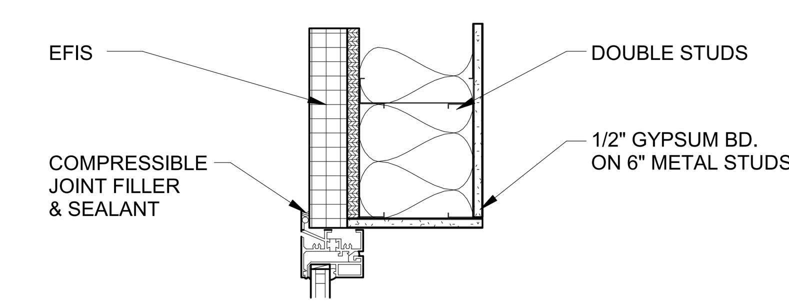
SCALE: 1/2" = 1'-0"

WINDOW TYPE B

SCALE: 1/2" = 1'-0"

WINDOW DETAILS

SCALE: 1 1/2" = 1'-0"



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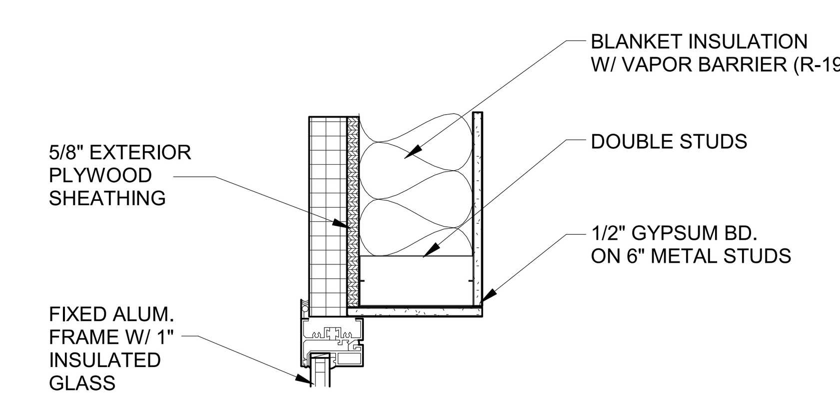
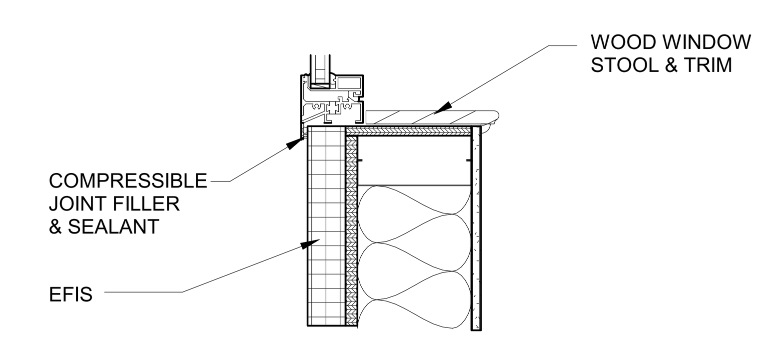


JAMB DETAIL



SILL DETAIL

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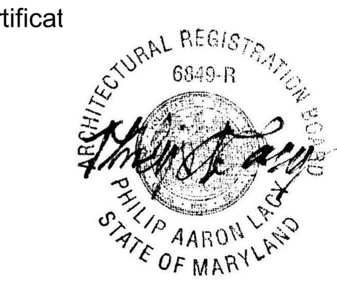

Project Title:

Iglesia Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

MISCELLANEOUS DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
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Drawing No.

A113

of

STRUCTURAL NOTES

DESIGN LOADS

1. LIVE LOADS

ROOF	= 30 PSF
FLOOR	= 100 PSF

2. SNOW LOADS

GROUND SNOW LOAD	PG =30 PSF
SNOW EXPOSURE FACTOR	CE = 1.0
SNOW IMPORTANCE FACTOR	I = 1.0
FLAT ROOF SNOW LOAD	PF = 21 PSF

3. LATERAL LOADS

WIND LOADS PER IBC 2018

1.	ULTIMATE DESIGN WIND SPEED	115 MPH
2.	NOMINAL DESIGN WIND SPEED	89 MPH
3.	WIND LOAD IMPORTANCE FACTOR	1.0
4.	RISK CATEGORY	II
5.	WIND EXPOSURE CATEGORY	B
6.	INTERNAL PRESSURE COEFFICIENT	±0.18
7.	MIN. & MAX. DESIGN WIND PRESSURE FOR THE MAIN WIND FORCE-RESISTING SYSTEM	18 PSF & 21 PSF
8.	MIN. & MAX. WIND PRESSURE FOR COMPONENTS & CLADDING MATERIALS	26 PSF & 30 PSF
9.	LATERAL RESISTING SYSTEM IS INCLUDING THE EXISTING BUILDING	

SEISMIC LOADS PER IBC 2018

1.	SEISMIC IMPORTANCE FACTOR	IE = 1.0
2.	RISK CATEGORY	II
3.	MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss =0.125 & S1 =0.055
4.	SITE CLASS:	D
5.	MAPPED SPECTRAL RESPONSE COEFFICIENTS:	Sds =0.133 & Sd1 = 0.088
6.	SEISMIC DESIGN CATEGORY	B
7.	BASIC SEISMIC-FORCE-RESISTANCE SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
8.	DESIGN BASE SHEAR	0.1W
9.	SEISMIC RESPONSE COEFFICIENTS	Cs = 0.08
10.	RESPONSE MODIFICATION FACTORS	R = 2,5
11.	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE

SOIL BEARING

1. 2,000 PSF, SHALL BE VERIFIED IN THE FIELD; FOR MORE INFORMATION SEE GEOTECHICAL REPORT BY F&H CONSULTANTS DATED OCTOBER 12, 2020.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE ACI CODE 318-2011.
2. 28-DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS: STONE CONCRETE: COURSE AGGREGATE SHALL CONFORM TO ASTM C33, F'c = 4,500 PSI
3. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED WITH 6%+ 1%.

FOUNDATION

1. ALL FOOTING SHALL BE PROJECT AT LEAST 1'- 0" INTO UNDISTURBED NATURAL SOIL OR THE COMPACTED CONTROLLED FILL HAVING A BEARING VALUE AT LEAST EQUAL TO THAT SPECIFIED ABOVE.
2. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 2' - 6" BELOW FINISHED GRADE.
3. WALL FOOTINGS SHALL BE 12" DEEP AND PROJECT 6" BEYOND EACH OF WALL, UNLESS NOTED.
4. ELEVATION OF BOTTOMS FOOTING HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND SHALL BE CONSTRUED AS WAIVING ANY OF THE MINIMUM REQUIREMENTS STATED.
5. ALL MASONRY WALLS FOOTING IN CONTROLLED FILL ARE TO BE REINFORCED WITH 3 # 5 LONGITUDINAL CONTINUOUS TOP AND BOTTOM BARS, UNLESS NOTED.
6. ALL DISTURBED EARTH UNDER FOOTING SHALL BE REPLACED WITH CONCRETE F'C=2000 PSI.
7. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
8. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO ONE VERTICAL) TO A FOOTING.
9. DO NOT PLACE CONCRETE OVER FROZEN SOIL.
10. THE OWNER SHALL RETAIN THE SERVICES OF A SOIL CONSULTANT APPROVED BY THE ARCHITECT TO CHECK AND VERIFY THE REQUIRED SOIL BEARING PRESSURE OF EACH FOOTING.

REINFORCEMENT STEEL

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM- A615, GRADE 60.
2. WELDED WIRE MESH TO CONFORM TO ASTM-A185.
3. FABRICATE AND PROVIDE STANDARD SUPPORTING ACCESSORIES IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315-LATEST ADDITION.
4. ALL CONTINUOUS REINFORCING SHALL BE SPLICED WITH TYPE " B " SPLICE STAGGERED, UNLESS NOTED OTHERWISE.
5. IN THE GARAGE SLABS, ALL REINFORCING BARS LOCATED IN THE TOP 2" OF THE SLABS.
6. SUBMIT FOR APPROVAL SHOP DRAWING SHOWING ALL REINFORCING STEEL AND LOCATIONS OF COLD JOINTS FOR EXTENT OF THE CONCRETE POUR.

CONCRETE PROTECTION FOR REINFORCEMENT

1. FOOTING AND OTHER CONCRETE POURED AGAINST EARTH - 3"
2. FORMED CONCRETE EXPOSED TO EARTH - 2" FOR BARS LARGER THAN #5, 1 1/2" FOR #5 AND SMALLER BARS.
3. BEAMS, COLUMNS AND TOP REINFORCING IN THE GARAGE SLAB - 1 1/2".
4. INTERIOR SLABS - 3/4".
5. INTERIOR FACES OF WALLS - 1", EXTERIOR FACES EXPOSED TO WEATHER - 1 1/2"
6. SLABS ON GROUND, UNLESS OTHERWISE NOTED, TO HAVE REINFORCEMENT AT MID-DEPTH.

SLAB ON GRADE

1. EXCEPT WHERE OTHERWISE NOTED, SHALL BE 4" OR 6" THICK (SEE PLAN), REINFORCED WITH 4 X 4 - W2.9 X W2.9 W.W.F.
2. LAP MESH 6" IN EACH DIRECTION.
3. FOR ALL EXTERIOR SLABS ON GRADE AIR ENTRAINED CEMENT WITH ENTRAINED AIR OF 6% OR EQUIVALENT, AIR ENTRAINING AGENT SHALL BE USED.
4. PROVIDE CONTROL JOINTS AT 20'-0" O.C. EACH WAY IN ALL SLABS ON GRADE.
5. INTERIOR SLAB SHALL BE LAID ON A LAYER OF 6 MIL. POLYETHYLENE OVER A 4" LAYER OF WASHED GRAVEL.
6. SEE SOIL CONSULTING RECOMMENDATIONS FOR PREPARATION OF SUB-GRADE.

MASONRY

1. SOLID CONCRETE MASONRY SHALL BE GRADE N1 IN ACCORDANCE WITH ASTM C-145 AND MAY BE 75% SOLID, UNLESS OTHERWISE NOTED.
2. HOLLOW CONCRETE MASONRY UNITS SHALL BE GRADE N1 CONFORMING TO ASTM C-90.
3. CONCRETE MASONRY UNITS SHALL BE WITH LIGHT CONCRETE.
4. ALL MORTAR SHALL BE TYPE "S" CONFORMING TO ASTM C-270 FOR ABOVE GRADE CONSTRUCTION. USE TYPE "M" FOR BELOW GRADE.
5. PROVIDE A MINIMUM OF 3 COURSES OF SOLID BRICK OR ONE COURSE 100% SOLID BLOCK UNDER WALL BEARINGS ENDS OF ALL JOISTS AND SLABS THE FULL WIDTH OF THE WALL, UNLESS NOTED.
6. PROVIDE 100% SOLID MASONRY DOWN TO FOOTINGS UNDER ALL BEAMS AND LINTELS BEARING ON MASONRY, UNLESS NOTED.
7. IN BEARING WALLS, PROVIDE SOLID BRICK OR 100% SOLID CONCRETE BLOCK EXTENDING 8" BEYOND WALL OPENINGS THE FULL WALL THICKNESS DOWN TO THE FLOOR, UNLESS NOTED.
8. ALL PORTIONS OF BEARING WALLS HAVING A HORIZONTAL CROSS SECTION OF 4 SQ. FT. OR LESS SHALL BE OF SOLID MASONRY DOWN TO FOOTINGS.
9. PROVIDE HORIZONTAL MASONRY REINFORCING AT 16" O.C. IN ALL MASONRY WALLS UNLESS NOTED.
10. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS @ 30'-0" O.C., UNLESS NOTED.
11. ALL MORTAR JOINTS IN MASONRY WALLS (HORIZONTAL & VERTICAL) SHALL BE FILLED 100% WITH MORTAR.
12. GROUT SHALL BE SAND AND CEMENT, 8 BAGS OF CEMENT PER CUBIC YARD.
13. PROVIDE MASONRY TIES BETWEEN 4" BRICK VENEER WALL AND THE STEEL STUD WALL. SPACE TIES @ 16" VERTICAL AND 24" HORIZONTAL.

STRUCTURAL STEEL

1. SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECS. FOR "DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B AND STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501.
3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION, LATEST CODE, AND SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY.
4. SHOP AND FIELD CONNECTIONS SHALL BE WELDED OR MADE WITH 3/4" STEEL HIGH STRENGTH BOLTS IN ACCORDANCE WITH ASTM -A325 OR A490.
5. ESTABLISH SPECIAL PROCEDURES FOR WELDS LARGER THAN 3/8" TO PREVENT LAMELLAR TEARING.
6. NO HOLES SHALL BE LOCATED IN FLANGES OF BEAMS UNLESS APPROVED BY THE ENGINEER.
7. THE OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED INSPECTOR TO INSPECT ERECTED STEEL AND CONNECTIONS.
8. NO FIELD CUTTING OF THE STEEL MEMBERS SHALL BE PERMITTED WITHOUT PRIOR AUTHORIZATION OF THE STRUCTURAL ENGINEER.
9. PROVIDE STEEL SCREEN ANGLES ALONG EDGE OF CONCRETE SLAB WHERE REQUIRED.
10. ALL STEEL TO BE PERMANENTLY EXPOSED TO WEATHER OR SOIL SHALL BE HOT DIP GALVANIZED.
11. SUBMIT FOR APPROVAL ALL STEEL SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE BUILDING'S JURISDICTION. ALLOW TWO WEEKS FOR THE REVIEW OF STRUCTURAL SHOP DRAWINGS.
12. ALL BEAM CONNECTION SHALL BE DESIGNED FOR THE MAXIMUM SHEAR CAPACITY.
13. ALL STEEL ERECTION SHALL BE COMPLETED, INCLUDING ALL BRACING BEFORE OTHER TRADES START THEIR WORK.

STEEL JOISTS

1. ALL MATERIALS, DESIGN, FABRICATION AND ERECTION SHALL BE IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND SJI SPECIFICATIONS.
2. PROVIDE EXTENSIONS FOR CEILING WHERE REQUIRED.
3. SHORT SPAN JOISTS SHALL BEAR 4" ON MASONRY OR CONCRETE AND BE EMBEDDED IN MORTAR AND SHALL BEAR 2 1/2" ON STEEL AND BE SECURED WITH TWO 1/8"WELDS EACH 1" LONG AT EACH BEARING.
4. ALL BRIDGING SHALL BE WELDED TO JOIST CHORDS AND WELDED TO BEAMS OR ANCHORED TO WALL AT END OF ROWS.
5. WHERE BRIDGING IS INTERRUPTED BY DUCTS, LIGHT FIXTURES, ETC., PROVIDE THE BRIDGING ON EACH SIDE OF THE INTERRUPTION.
6. LONG SPAN JOISTS SHALL BEAR 6" ON MASONRY OR CONCRETE AND BE EMBEDDED IN MORTAR AND SHALL BEAR 4" ON STEEL AND BE SECURED WITH $\frac{1}{4}$" WELDS EACH 2" LONG AT EACH BEARING.
7. "SP" DESIGNATES JOISTS WITH SPECIAL LOADING OR DEFLECTION CRITERIA AND SHALL BE DESIGNED BY JOIST MANUFACTURER. SEE LOADING DESIGNS ON PLANS. SUBMIT CALCULATIONS ALONG WITH SHOP DRAWINGS FOR APPROVAL.

FLOOR SLAB OVER STEEL JOISTS

1. 3" NORMAL WEIGHT CONCRETE SLAB SHALL BE POURED OVER GALVANIZED 26 GAGE METAL CENTERING, STANDARD CONFORM, SLABFORM OR EQUAL, REINFORCED WITH 6" X 6"- W2.0 X W2.0 W.W.F.
2. TOTAL THICKNESS OF SLAB SHALL BE 3" MINIMUM INCLUDING METAL CENTERING.

PREFABRICATED BUILDING

1. PREFABRICATED BUILDING FRAMES SHALL CONSIST OF RIGID FRAMES WITH PURLINS TO SUPPORT THE ROOF AND WALLS COVERING. THE MANUFACTURER SHALL DESIGN, DETAIL, AND FABRICATE THE COMPLETE STRUCTURAL FRAMING SYSTEM INCLUDING COLUMN BASE, COLUMNS, GIRTS, METAL DECKS AND OTHER STRUCTURAL COMPONENTS. DESIGN LOADS SHALL BE PER THE STANDARD BUILDING CODE 1996 EDITION. DESIGN LOADS SHALL INCLUDE, WIND LOADS AND OTHER APPLICABLE LOADS. THE STRUCTURAL SUPPORT SHALL BE DESIGNED FOR THE MINIMUM LOADS INDICATED ON THE DRAWINGS. THE BUILDING SUPPLIER SHALL VERIFY THE LOADS. SEE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS. MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN ANALYSIS OF ALL STRUCTURAL ELEMENTS TO THE CONTRACTING OFFICER FOR REVIEW BEFORE FABRICATION. SHOP DRAWINGS AND DESIGN ANALYSIS SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND.
   ALL STRUCTURAL MILL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISC.
   ALL COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF "AISC" SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
   ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY CODE FOR BUILDING CONSTRUCTION BY CERTIFIED WELDERS ONLY. THE BASE PLATE, ANCHOR BOLTS, REACTIONS AND MOMENTS RESULTING FROM ALL APPLIED LOADS.
2. BUILDING SHALL BE DESIGNED TO ACCOMMODATE FEATURES AS DESCRIBE IN ARCHITECTURAL. STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS OF THE CONTRACT DOCUMENTS, AND CONTRACTOR SHALL COORDINATE ALL ROOF OPENING WITH ARCHITECT AND MECHANICAL DRAWINGS.
3. FOUNDATIONS HAVE BEEN DESIGNED FOR LOADS SHOWN IN SCHEDULE SHOULD FOUNDATIONS AS SHOWN BE INADEQUATE IN CONSIDERATION OF BUILDING MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT BUILDING REACTIONS TO THE CONTRACTING OFFICER FOR REDESIGN OF FOOTINGS.

STEEL STAIRS AND HANDRAILS

1. STEEL STAIRS AND HANDRAILS SHALL BE DESIGNED AND DETAILED BY SUPPLIER.
2. SUBMIT SHOP DRAWINGS CALCULATION SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE BUILDING'S JURISDICTION.

LINTELS

1. PROVIDE, UNLESS NOTED OTHERWISE, PRE-CAST LIGHTWEIGHT CONCRETE LINTELS FOR ALL OPENINGS AND RECESSES IN CONCRETE MASONRY UNIT WALLS:
   A. ONE 4" X 8" LINTEL FOR EACH 4" OF WALL THICKNESS.
   B. ONE 6" X 8" LINTEL FOR EACH 6" OF WALL THICKNESS.
   REINFORCE EACH LINTEL UNIT WITH ONE # 4 BAR TOP AND ONE # 4 BAR BOTTOM, WITH # 2 TIE BARS SPACED AT 8" O.C. CONCRETE LINTEL UNITS SHALL HAVE 8" MINIMUM BEARING AT ENDS AND MAY BE USED FOR OPENING UP TO 6'-0".
2. FOR ALL OPENINGS AND RECESSES IN BRICK WALLS, PROVIDE ONE STEEL ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:
   A. L 3 1/2" X 3 1/2" X 1/4" FOR OPENINGS UP TO 4'-0".
   B. L 4" X 3 1/2" X 1/4" FOR OPENINGS 4'-1" TO 5'-11".
   C. W8 X 18 WITH SUSPENDED 1/4" PLATE SAME WIDTH AS WALL FOR OPENINGS GREATER THAN 6'-0", LESS THAN 8'-0", UNLESS NOTED. PROVIDE 6" MINIMUM BEARING AT EACH END.

SHEATHING, SHORING AND BRACING

1. SHALL BE DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. SHOP DRAWINGS AND CALCULATION MUST SHOW INSTALLATION DETAILS AND SEQUENCE OF OPERATION.

SHOP DRAWINGS & RFI's

1. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER. IF CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, MGV WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT.
2. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMITTING TO ENGINEER, MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY AND SHALL CERTIFY ON EACH DRAWING AS FOLLOWS.
3. REPRODUCTION OF STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS SHALL NOT BE PERMITTED.
4. ALLOW TWO WEEKS FOR THE REVIEW OF STRUCTURAL SHOP DRAWINGS.
5. ALLOW FIVE WORKING DAYS FOR THE REVIEW OF STRUCTURAL RFI's AND RESPOND.

TESTING AND INSPECTION

1. INSPECTION FOR ALL STRUCTURAL PORTIONS OF THE PROJECT SHALL BE PROVED AS REQUIRED BY THE APPLICABLE BUILDING CODE.
2. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL INSPECTIONS AND TESTING.
3. ALL CONCRETE WORK SHOWN ON THESE DRAWINGS AND SPECIFIED IN THE SPECIFICATIONS SHALL BE INSPECTED IN ACCORDANCE WITH ACI-318 (LATEST EDITION). COPIES OF FIELD REPORTS, CONCRETE MIXES, CYLINDER TESTS, AND OTHER DATA SHALL BE SENT TO THE ARCHITECT, ENGINEER, AND OWNER.
4. ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST APPROVED EDITIONS OF ASTM APPLICABLE SPECIFICATIONS.

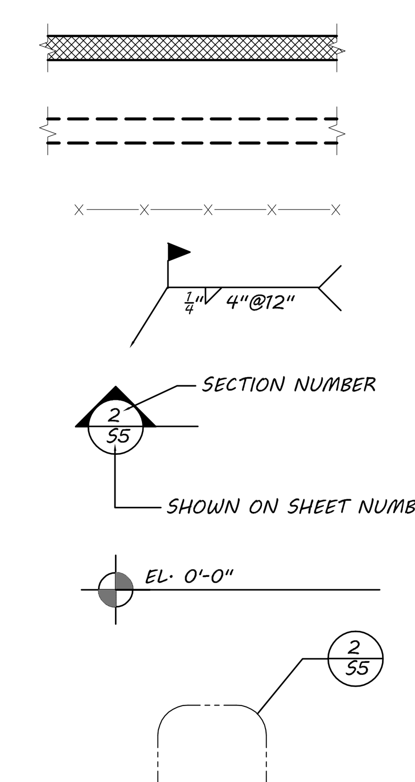
GENERAL

1. ALL DETAIL, SECTION, AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED.
2. DO NOT SCALE DRAWINGS.
3. REFER TO ARCHITECTURAL, MECHANICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEEVES, DRIPS, REVEALS, FINISHES, DEPRESSIONS, DOOR AND OTHER SUCH PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
4. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED TO PROPERLY CONSTRUCT THE BUILDING.
5. ALL HANGERS FOR MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT SHALL BE CONNECTED TO THE STRUCTURAL MEMBERS. THE HANGERS SHALL BE LOCATED SUCH THAT DO NOT PRODUCE EQUIVALENT UNIFORM LOAD OF MORE THAN 3 PSF. SUBMIT SHOP DRAWINGS FOR HANGER TYPE AND LAYOUT FOR APPROVAL.
6. PROVIDE ALL CLIPS, INSERTS, TIES, ANCHOR STRAPS, HANGERS, BOLTS AND OTHER FASTENERS AS REQUIRED.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
8. NO PART OF THE BUILDING SHALL BE USED AS A STAGING AREA RESULTING IN A LOAD (UNDER THE LIMITED LOADED AREA) THAT EXCEEDS 75% OF THE DESIGN LIVE LOAD.
9. ALL FORMWORK AND SHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. SEE ARCHITECTURAL DRAWINGS FOR INSULATION VALUE AND LOCATION

ABBREVIATIONS

A.B.	=	ANCHOR BOLT
ADD'L	=	ADDITIONAL
ARCH.	=	ARCHITECTURAL
BAL.	=	BALANCE
BM.	=	BEAM
BOTT.	=	BOTTOM
C.J.	=	CONTROL JOINT
C	=	CENTER LINE
C.C.	=	CENTER TO CENTER
CL.	=	CLEAR
COL.	=	COLUMN
CONC.	=	CONCRETE
CONT.	=	CONTINUOUS
DET.	=	DETAIL
DIA.	=	DIAMETER
DWG.	=	DRAWING
DWLS.	=	DOWELS
EA.	=	EACH
E.F.	=	EACH FACE
E.J.	=	EXPANSION JOINT
EL.	=	ELEVATION
E.O.S.	=	EDGE OF STRUCTURAL SLAB
E.W.	=	EACH WAY
EXP.	=	EXPANSION
FIN.	=	FINISHED
FL.	=	FLOOR
F.F.	=	FAR FACE
H.	=	HORIZONTAL
H.D.G.	=	HOT DIP GALVANIZED
JT.	=	JOINT
LLH	=	LONG LEG HORIZONTAL
LLV	=	LONG LEG VERTICAL
LW	=	LONG WAY
MAX.	=	MAXIMUM
MECH.	=	MECHANICAL
MIN.	=	MINIMUM
N.F.	=	NEAR FACE
NO.	=	NUMBER
NTS.	=	NOT TO SCALE
O.C.	=	ON CENTER
OPNG.	=	OPENING
P.C.	=	PRECAST CONCRETE
P.J.F.	=	PREMOLDED JOINT FILLER
PL.	=	PLATE
R	=	RADIUS
REINF.	=	REINFORCEMENT
REQ'D.	=	REQUIRED
SCHED.	=	SCHEDULE
SECT.	=	SECTION
SIM.	=	SIMILAR
S.O.G.	=	SLAB ON GRADE
S.S.	=	STAINLESS STEEL
ST.	=	STEEL
STD.	=	STANDARD
STIFF.	=	STIFFENER
S.W.	=	SHORT WAY
SYM.	=	SYMMETRICAL
T. & B.	=	TOP AND BOTTOM
T.O.D.	=	TOP OF STEEL DECK
T.O.F.	=	TOP OF FOOTING
T.O.SL.	=	TOP OF STRUCTURAL SLAB
T.O.ST.	=	TOP OF STEEL
T.O.W.	=	TOP OF STRUCTURAL WALL
TYP.	=	TYPICAL
U.O.N.	=	UNLESS OTHERWISE NOTED
V.	=	VERTICAL
V.I.F.	=	VERIFY IN FIELD
W.P.	=	WORKING POINT
W.W.M.	=	WELDED WIRE MESH

SYMBOLS



NEW CMU WALL

NEW FOOTING

WIRE WELDED FABRIC (WWF)

WELD SYMBOL

SECTION INDICATION

ELEVATION DATUM

DETAIL INDICATION

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:

I hereby certify that these documents were prepared or approved by me, & that I am a duly licensed professional engineer under the Laws of the state of Maryland.
License No. 18370, Exp. date: 08-12-2025

Project Title:
Iglesic Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

STRUCTURAL NOTES

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021

Scale: AS SHOWN

Drawn: GG

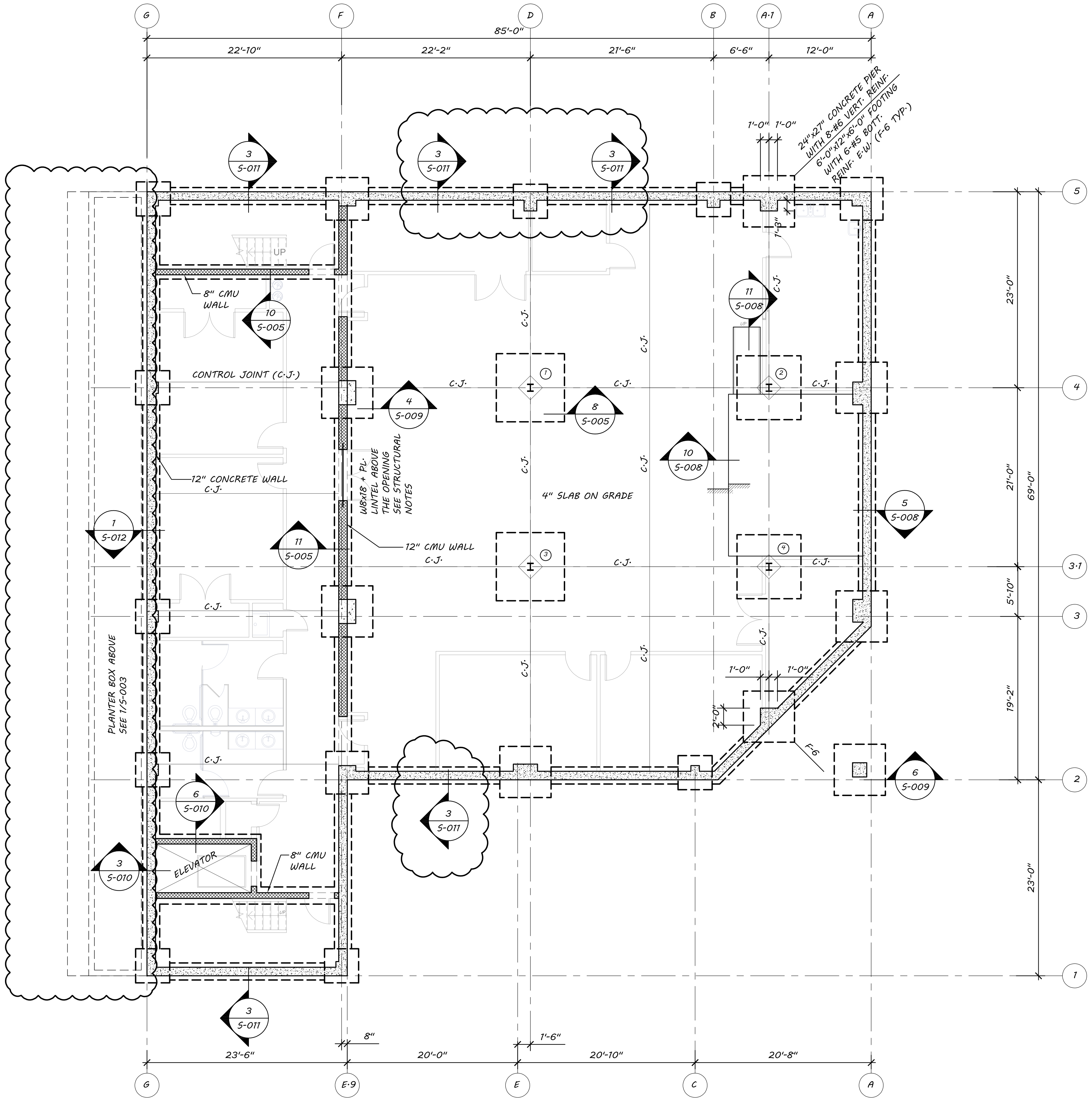
Checked: MV

File No.

Drawing No.

S-001

of



FOUNDATION & BASEMENT FLOOR PLAN

1
S-002

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

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS & INFORMATION NOT SHOWN.
2. COLUMN SCHEDULE SEE S-004.
3. CENTER OF FOOTING IS THE SAME AS CENTER OF PIER, FOR CONCRETE PIER DIMENSIONS SEE S-007.

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALE

Date:	Revisions:
10/25/2023	Updated for planter box

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Project Title:

Iglesic Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

FOUNDATION & BASEMENT FLOOR PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structural Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
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Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

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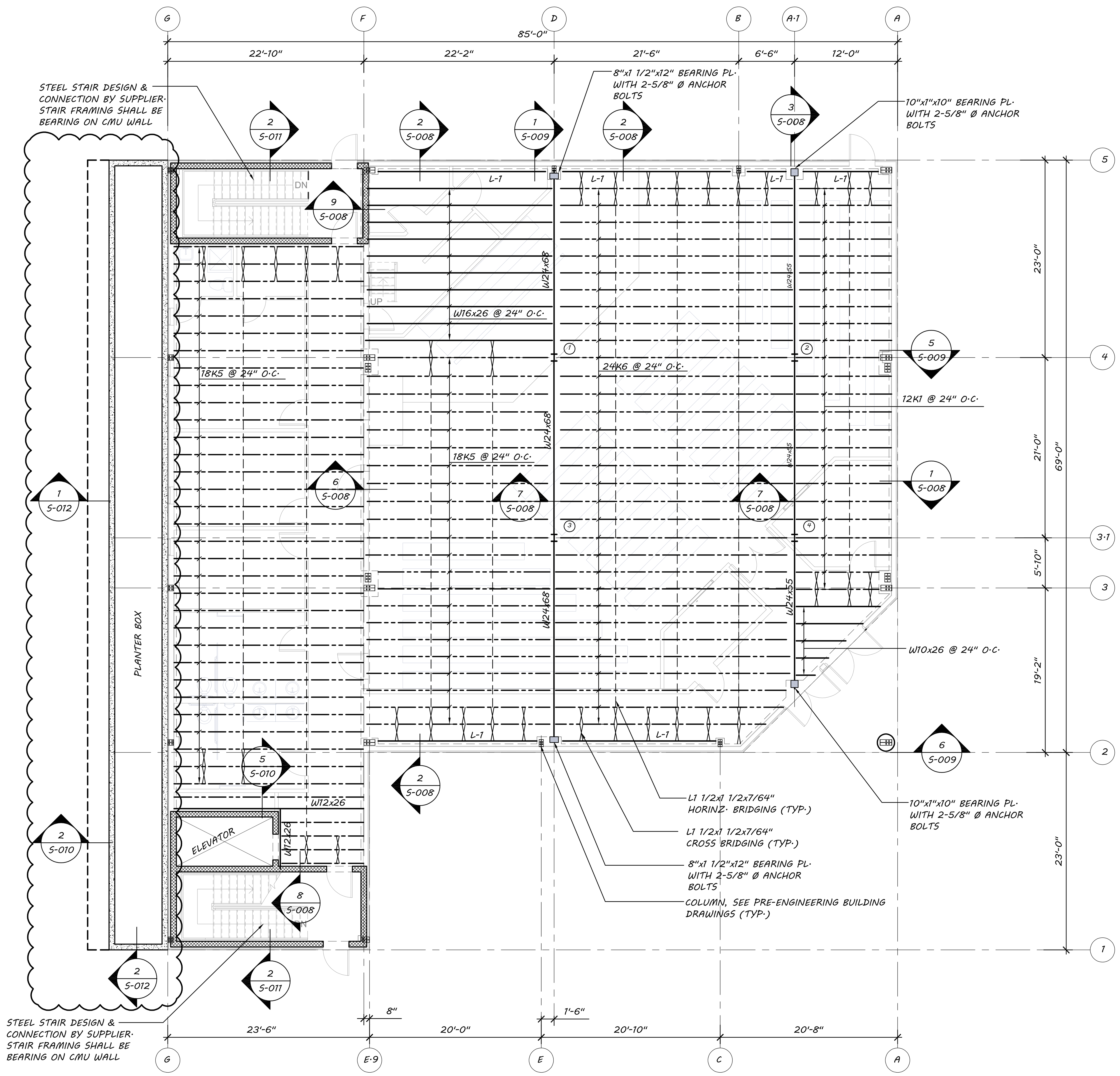
S-002

of

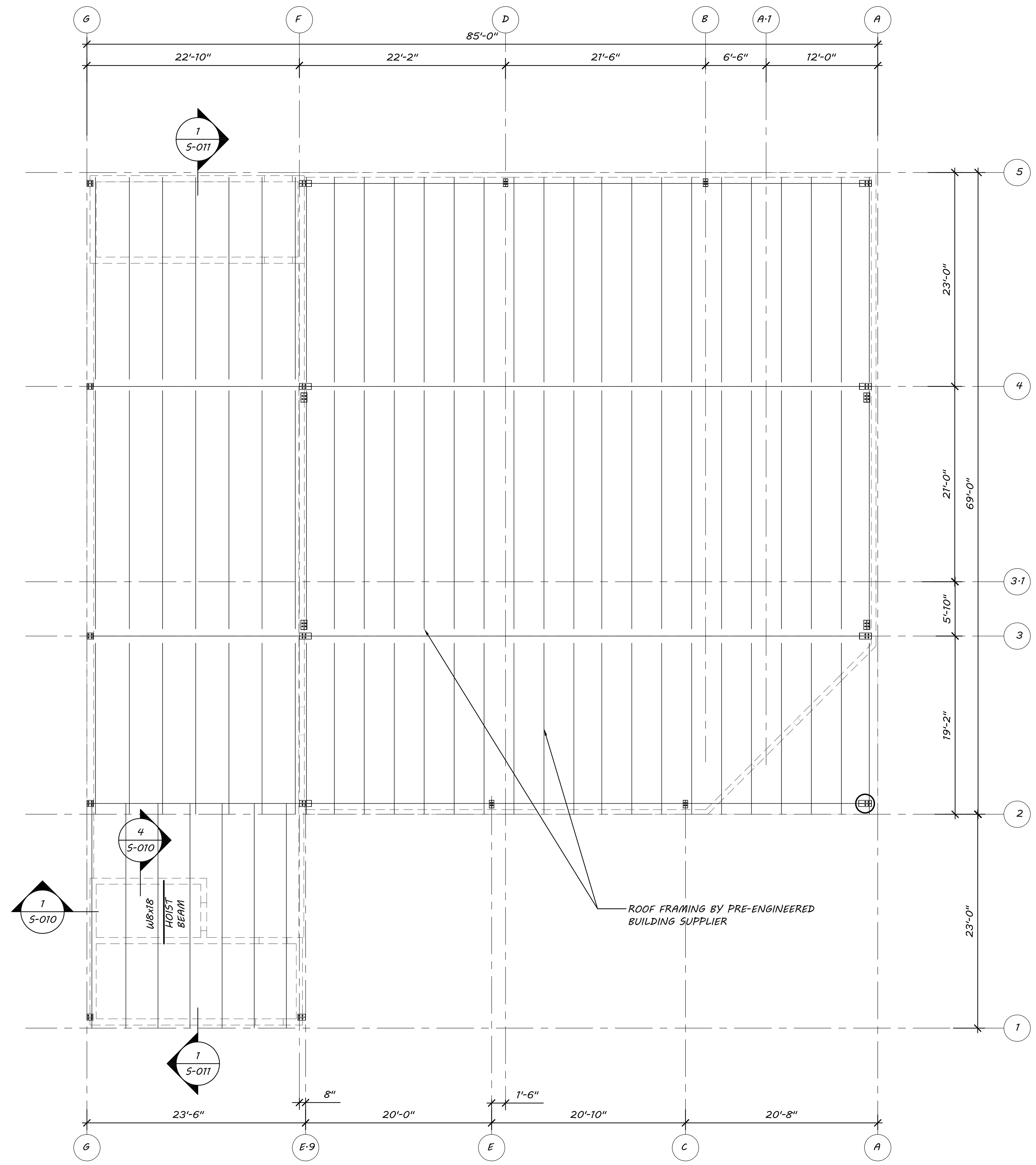


1ST FLOOR FRAMING PLAN (1 / S-003)

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

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS & INFORMATION NOT SHOWN.
2. DESIGN LIVE LOAD OF FLOOR = 125PSF
3. ALL STEEL JOISTS @ COLUMN LOCATIONS SHALL HAVE BOTTOM CHORD SAME AS TOP CHORD.
4. ALL STEEL BEAMS SHALL HAVE STIFF. PLATE @ 6'-0" O.C. @ EACH SIDE OF BEAM.
5. L-1 - INDICATES CONT. L4x4x5/16" WITH 1/2"Ø x6" LONG STUDS @ 24" O.C.



PRE-ENGINEERED ROOF FRAMING PLAN (2 / S-003)

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

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS & INFORMATION NOT SHOWN.
2. DESIGN LIVE LOAD OF ROOF = 30 PSF
3. FOR PRE-ENGINEERED BUILDING NOTE SEE STRUCTURAL NOTES ON S-001

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALE

Date:	Revisions:
10/25/2023	Updated for planter box

Certification:

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Project Title:

Iglesic Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

1ST FLOOR AND ROOF FRAMING PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021

Scale: AS SHOWN

Drawn: GG

Checked: MV

File No.

Drawing No.

S-003

of

COLUMN SCHEDULE AT LOCATIONS OF PRE-ENGINEERED BUILDING

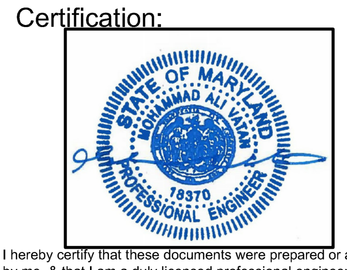
	COLUMN / LOAD	A-2	A-3	A-4	A-5	B-5	D-5	F-5	G-5	F-4	G-4	F-3	G-3	F-2	G-2	E-2	C-2	G-1	E-9-1	COLUMN / LOAD	
LOADS FROM PRE-ENGINEERED BUILDING	VERT. LOAD, K	21.8	47.2	51.1	25.8	0.5	0.6	30.9	5.3	60.7	10.6	56.3	9.8	31.0	9.5	0.5	0.5	6.2	6.7	VERT. LOAD, K	LOADS FROM PRE-ENGINEERED BUILDING
	UPLIFT LOAD, K	-7.5	-12.0	-16.7	-8.3			-10.9	-3.8	-21.6	-5.0	-19.9	-7.7	-13.3	-7.1			-4.9	-5.0	UPLIFT LOAD, K	
	HORIZ. LOAD, K	±12.5	±27.8	±26.4	±14.0	±7.1	±8.4	±14.2	±1.3	±26.5	±2.2	±24.5	±2.0	±16.2	±2.3	±7.8	±7.8	±3.6	±4.2	HORIZ. LOAD, K	
	HORIZ. BRACING LOAD, K	±3.5	±8.1	±8.8	±4.2			±4.2		±8.8		±8.1		±8.6						HORIZ. BRACING LOAD, K	
PIER SIZE & VERT. REINF.		20"x20"	32"x26"	32"x26"	26"x20"	18"x20"	18"x27"	24"x20"	16"x20"	24"x32"	16"x16"	24"x32"	16"x16"	24"x20"	16"x16"	34"x20"	12"x20"	16"x20"	16"x20"	PIER SIZE & VERT. REINF.	
		8-#6	8-#6	8-#6	8-#6	6-#6	6-#6, SEE 1/S-009	8-#6	6-#6	8-#6	4-#6	8-#6	4-#6	8-#6	4-#6	8-#6	6-#6	6-#6	6-#6		
VERT. LOAD + WEIGHT OF PIER + BEAM REACTION, K		27.0	60.0	65.0	35.0	6.0	74.0	39.0	11.0	72.0	17.0	69.0	16.0	39.0	16.0	70.0	13.0	12.0	13.0	VERT. LOAD + WEIGHT OF PIER + BEAM REACTION, K	
FOOTING	SIZE (FT.)	6'-0"x6'-0"	6'-0"x6'-0"	6'-0"x6'-0"	5'-0"x5'-0"	4'-0"x4'-0"	6'-5"x6'-5"	5'-0"x5'-0"	4'-0"x4'-0"	6'-5"x6'-5"	4'-0"x4'-0"	6'-0"x6'-0"	4'-0"x4'-0"	5'-0"x5'-0"	4'-0"x4'-0"	6'-0"x6'-0"	4'-0"x4'-0"	4'-0"x4'-0"	4'-0"x4'-0"	SIZE (FT.)	FOOTING
	THICKNESS (IN.)	16"	14"	14"	12"	12"	16"	12"	12"	16"	12"	14"	12"	12"	12"	14"	12"	12"	12"	THICKNESS (IN.)	
	REINF. BOTTOM-E.W.	6-#5	6-#5	6-#5	5-#5	4-#5	7-#5	5-#5	4-#5	7-#5	4-#5	6-#5	4-#5	5-#5	4-#5	6-#5	4-#5	4-#5	4-#5	REINF. BOTTOM-E.W.	

COLUMN SCHEDULE @ BASEMENT

	FLOORS / COL. NUMBER	1	2	3	4
1ST FLOOR					
BASEMENT		W12x58 115 K	W12x58 85 K	W12x58 105 K	W12x58 75 K
TOTAL LOAD (KIPS)		115 K	85 K	105 K	75 K
BASE PLATE		16"x1"x16"	16"x1"x16"	16"x1"x16"	16"x1"x16"
ELEV. BOT. OF BASE PLATE 7" BELOW FINISH SLAB U.N.O.					
PIER	SIZE				
	REINF.				
FOOTING	SIZE (FT.)	8'-0"x8'-0"	7'-6"x7'-6"	8'-0"x8'-0"	7'-6"x7'-6"
	THICKNESS (IN.)	20"	18"	20"	18"
	REINF. BOTTOM-E.W.	8-#6	8-#6	8-#6	8-#6

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:



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12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

COLUMN SCHEDULE

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

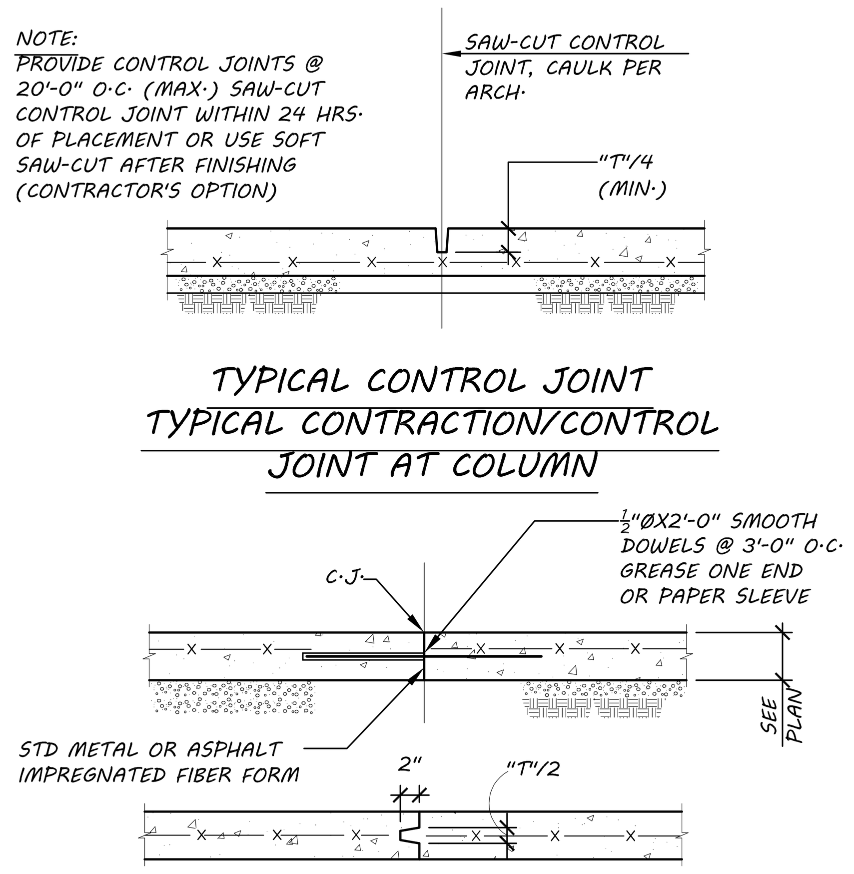
Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021
Scale: AS SHOWN
Drawn: GG
Checked: MV
File No.

Drawing No.

S-004

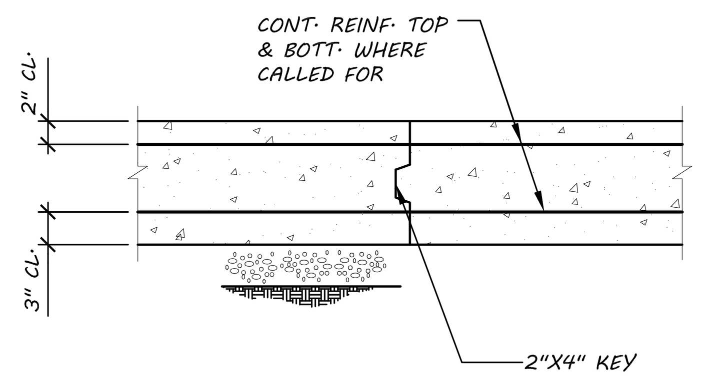


TYPICAL CONTROL JOINT
TYPICAL CONTRACTION/CONTROL JOINT AT COLUMN

TYPICAL CONTRACTION JOINT (CONTRACTOR'S OPTION)

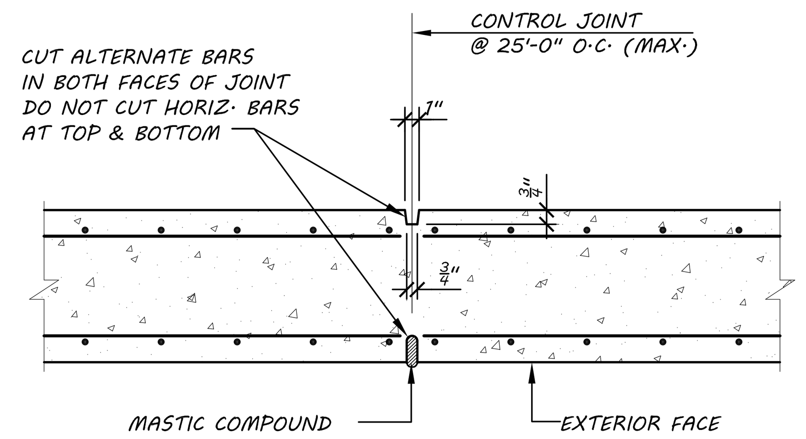
NOTE: SEE ARCHITECTURAL DRAWINGS FOR INSULATION VALUE AND LOCATION

TYPICAL DETAIL 1
SCALE: N.T.S. S-005



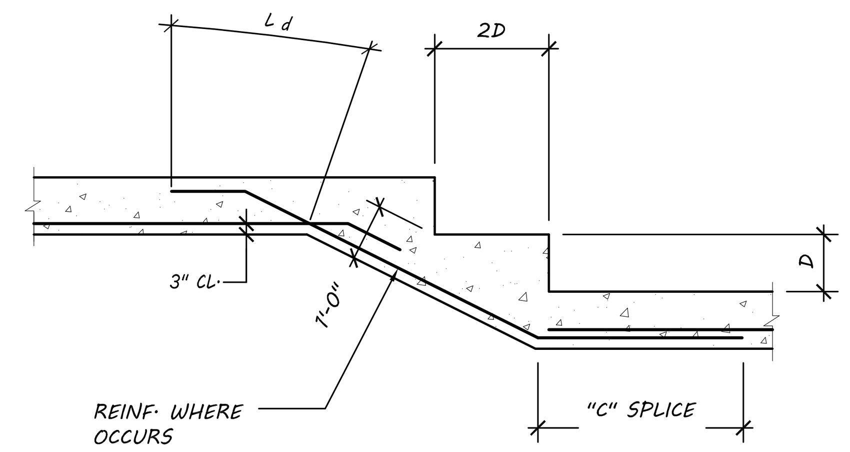
TYPICAL WALL FOOTING CONSTRUCTION JOINT

TYPICAL DETAIL 2
SCALE: N.T.S. S-005



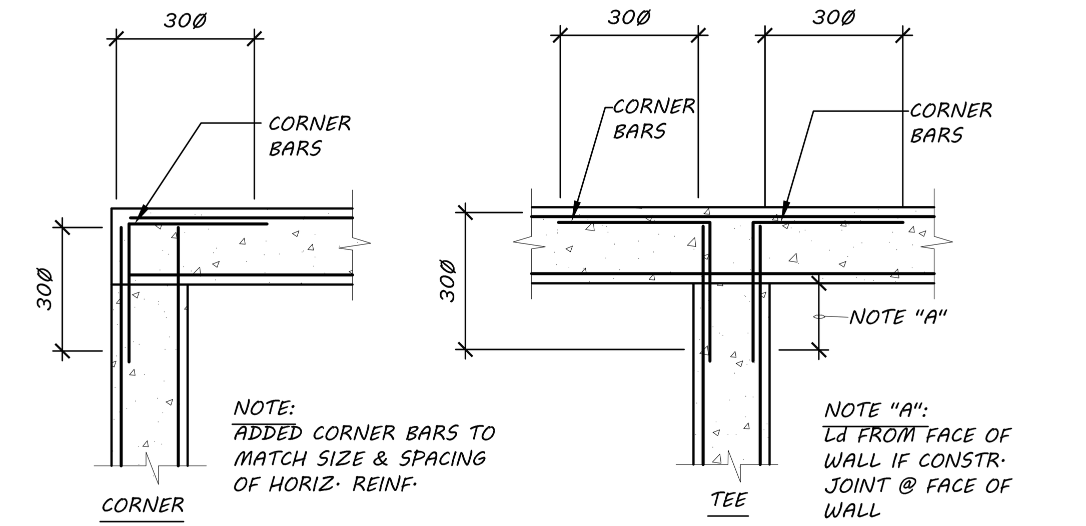
TYPICAL CONTROL JOINT FOR CONCRETE WALLS

TYPICAL DETAIL 3
SCALE: N.T.S. S-005



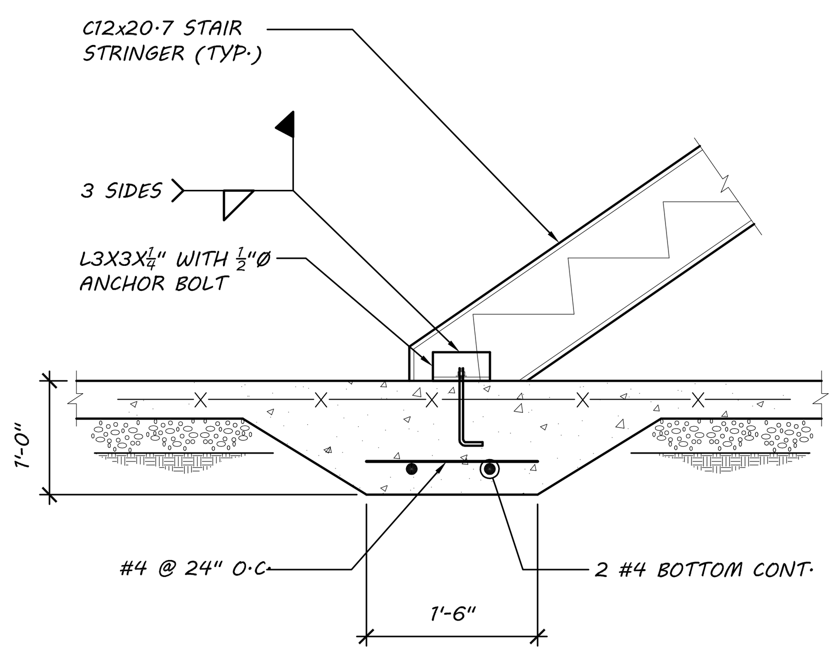
TYPICAL STEPPED FOOTING

TYPICAL DETAIL 4
SCALE: N.T.S. S-005



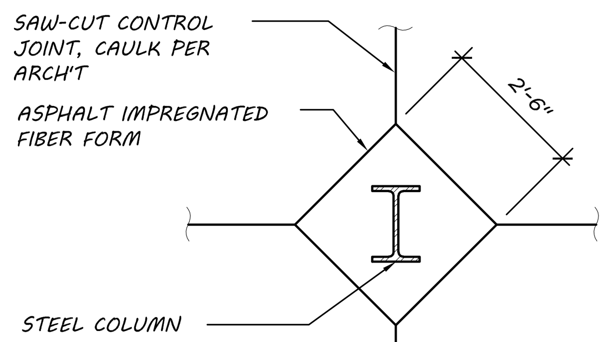
TYPICAL CONCRETE FOOTING OR GRADE BEAM REINFORCEMENT

TYPICAL DETAIL 5
SCALE: N.T.S. S-005



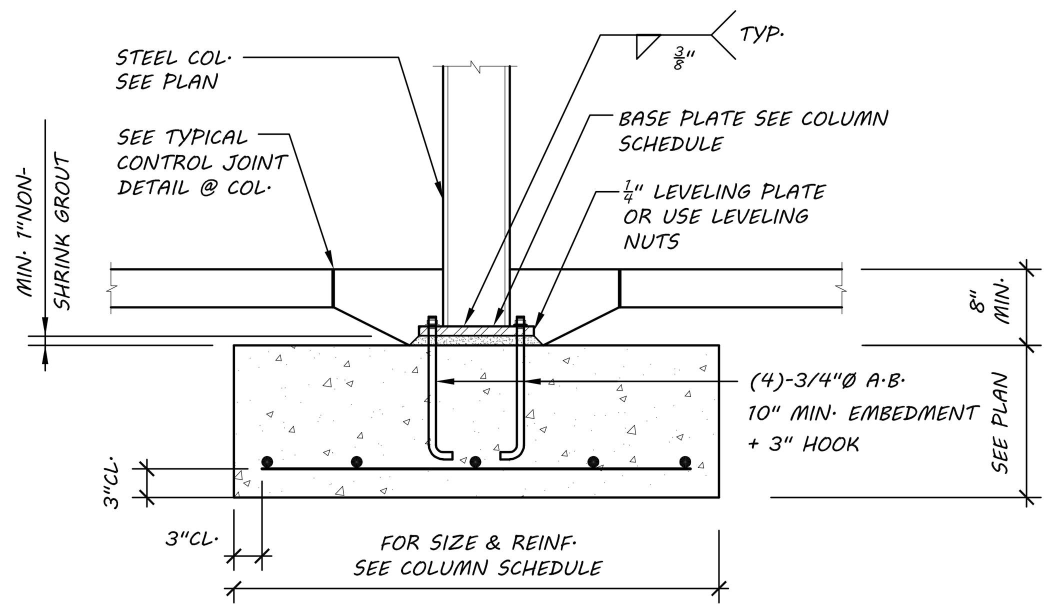
TYPICAL THICKENED SLAB

TYPICAL DETAIL 6
SCALE: N.T.S. S-005



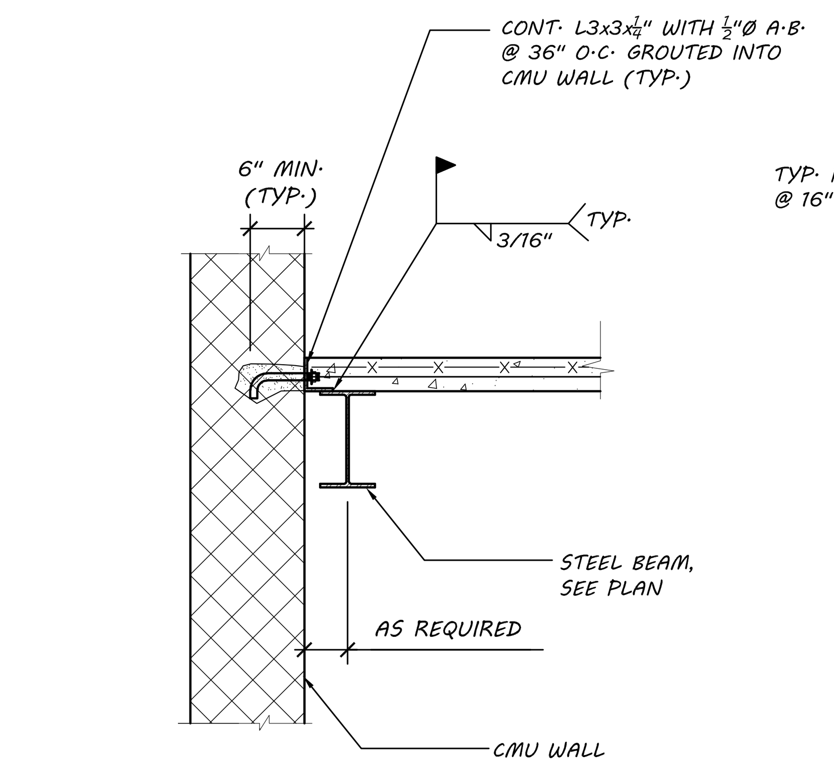
TYPICAL CONTROL JOINT @ COLUMN

TYPICAL DETAIL 7
SCALE: N.T.S. S-005



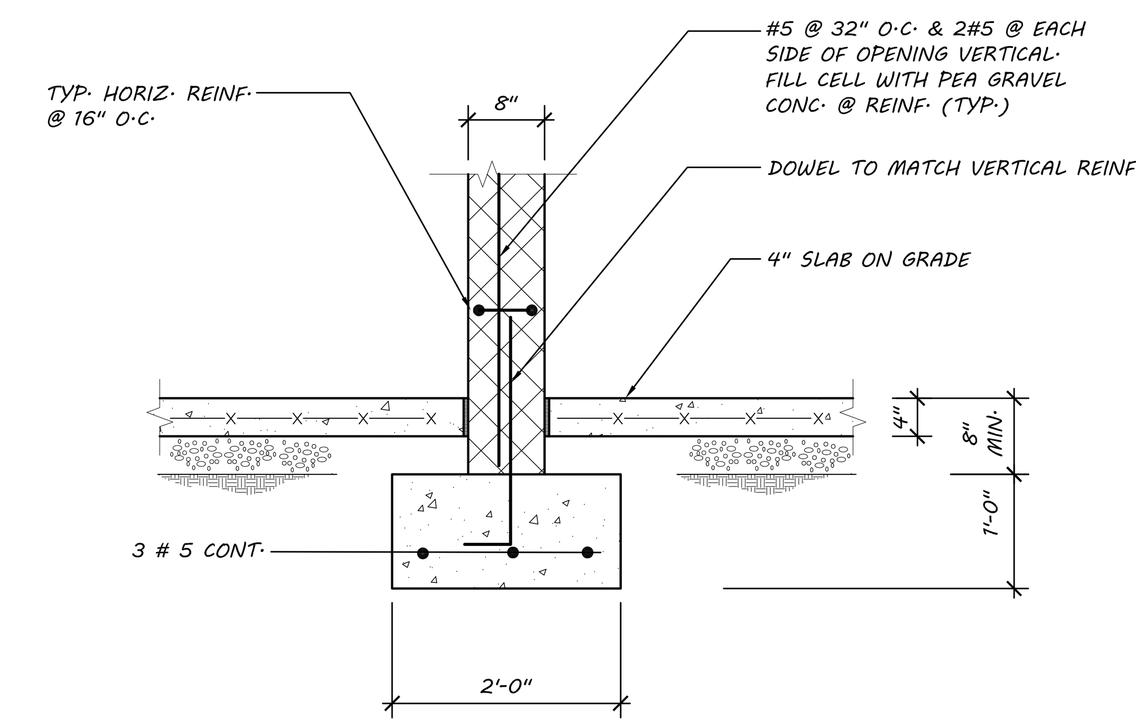
TYPICAL COLUMN AND FOOTING

TYPICAL DETAIL 8
SCALE: N.T.S. S-005

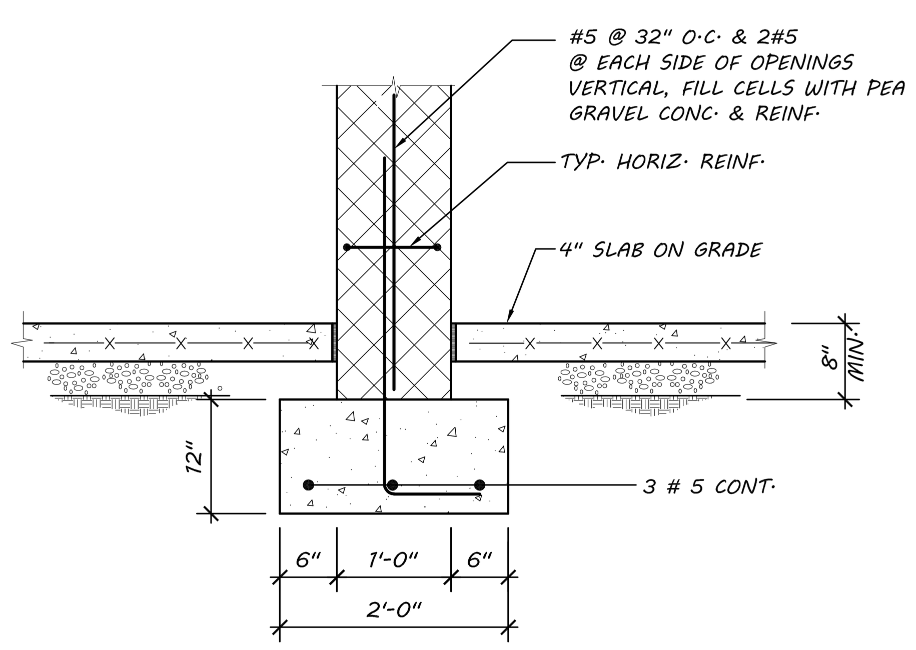


NOTE: METAL DECK WELDED TO BEAM & ANGLE

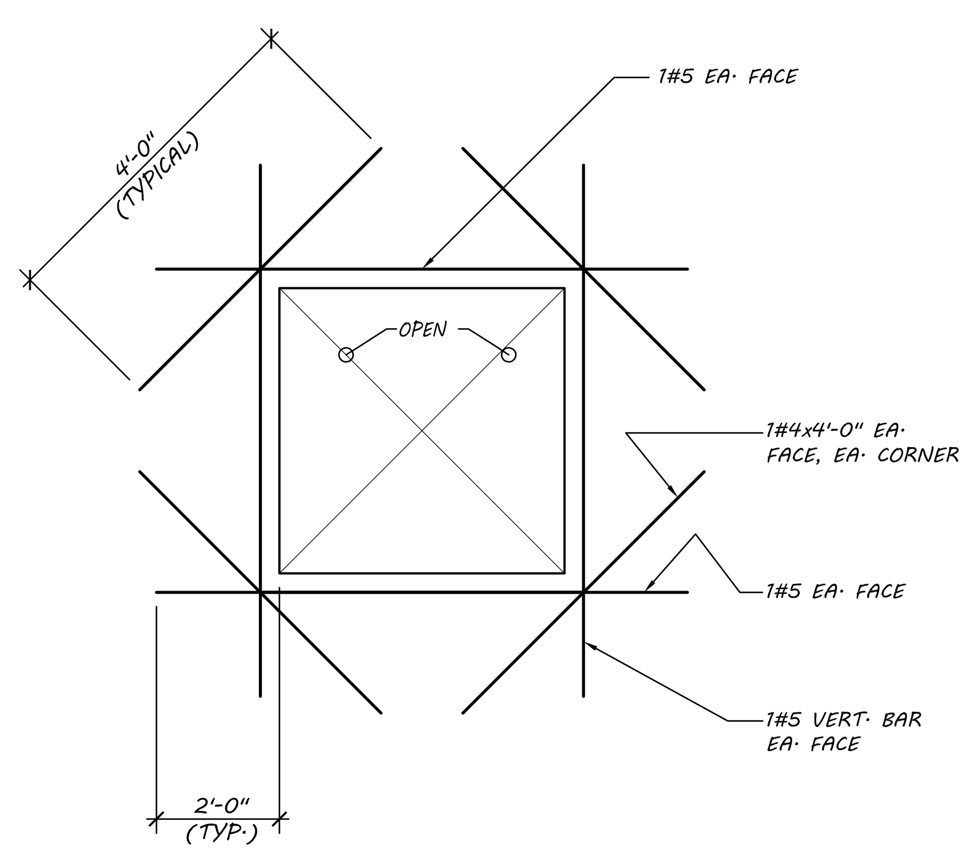
TYPICAL DETAIL 9
SCALE: N.T.S. S-005



TYPICAL DETAIL 10
SCALE: N.T.S. S-005

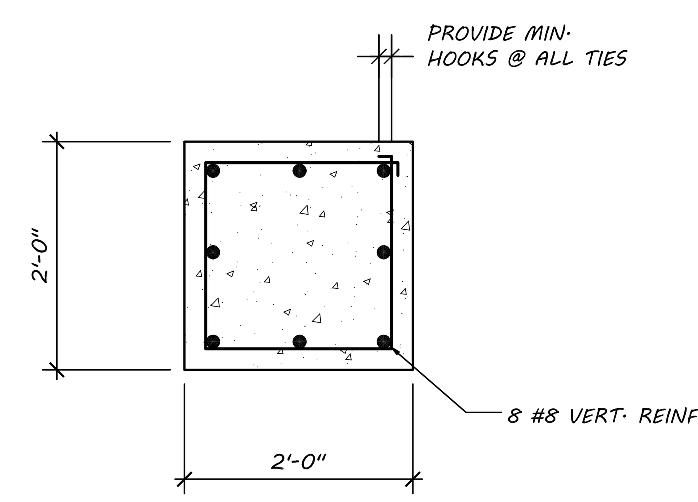


TYPICAL DETAIL 11
SCALE: N.T.S. S-005



TYPICAL CONCRETE WALL OPENING REINFORCEMENT

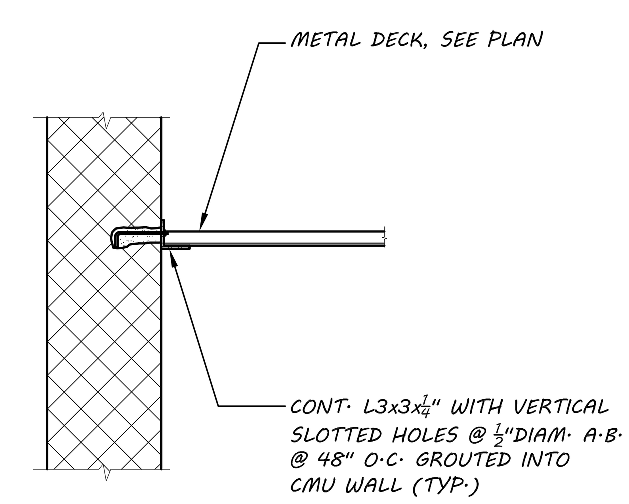
TYPICAL DETAIL 12
SCALE: N.T.S. S-005



CONCRETE PIER

NOTES:
1. ALL PIER TIES SHALL CONFORM TO ASTM SPEC. A615 GRADE 40.
2. PIER TIE SPACING NOT TO EXCEED LEAST COLUMN DIMENSION.
3. EXCEPT AS NOTED ABOVE MAXIMUM TIE SPACING SHALL BE #3 @ 12" O.C.

TYPICAL DETAIL 13
SCALE: N.T.S. S-005



TYPICAL METAL DECK SUPPORT WHERE THERE ARE NO BEAMS

TYPICAL DETAIL 14
SCALE: N.T.S. S-005

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:

I hereby certify that these documents were prepared or approved by me, & that I am a duly licensed professional engineer under the Laws of the state of Maryland. License No. 18370, Exp. date: 08-12-2025

Project Title:
Iglesic Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

TYPICAL DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

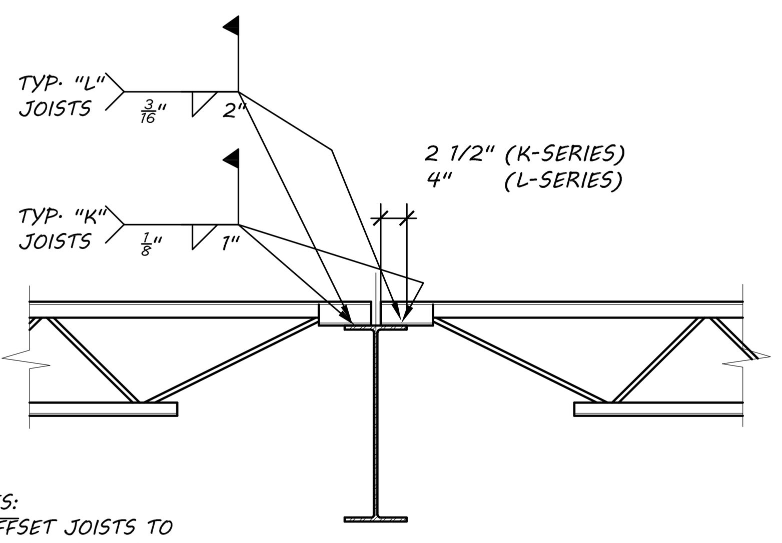
Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021
Scale: AS SHOWN
Drawn: GG
Checked: MV
File No.

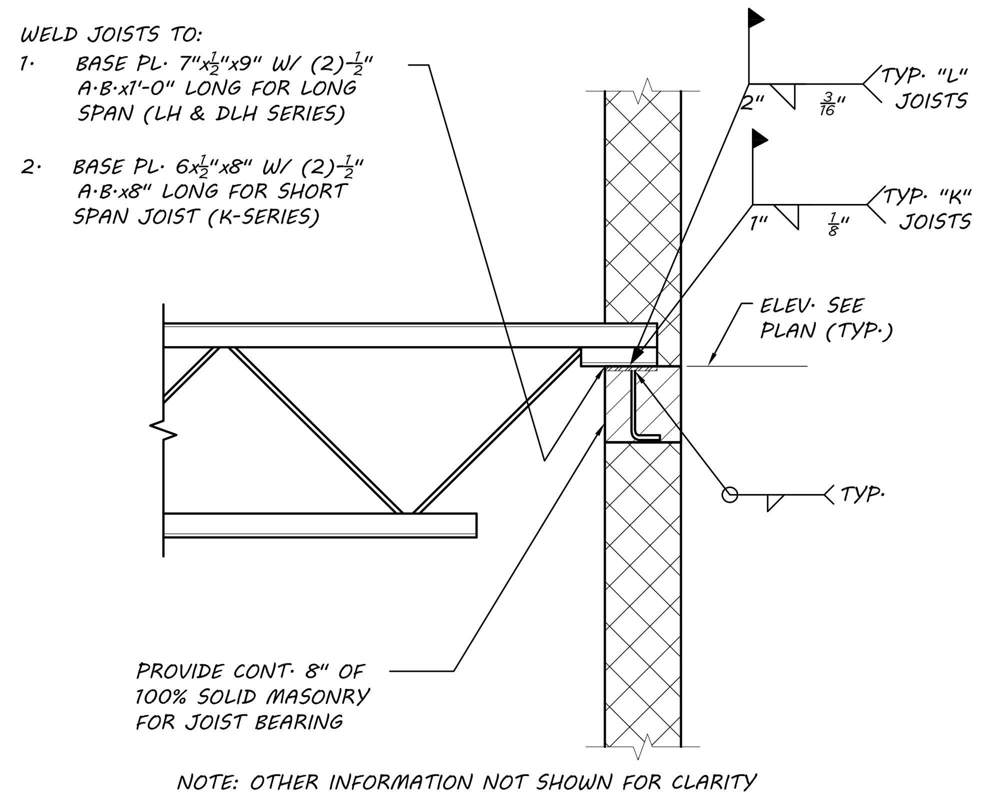
Drawing No.
S-005
of



NOTES:
1. OFFSET JOISTS TO MAINTAIN PROPER BEARING EXCEPT AS REQUIRED AT COLUMNS
2. OTHER INFORMATION NOT SHOWN FOR CLARITY

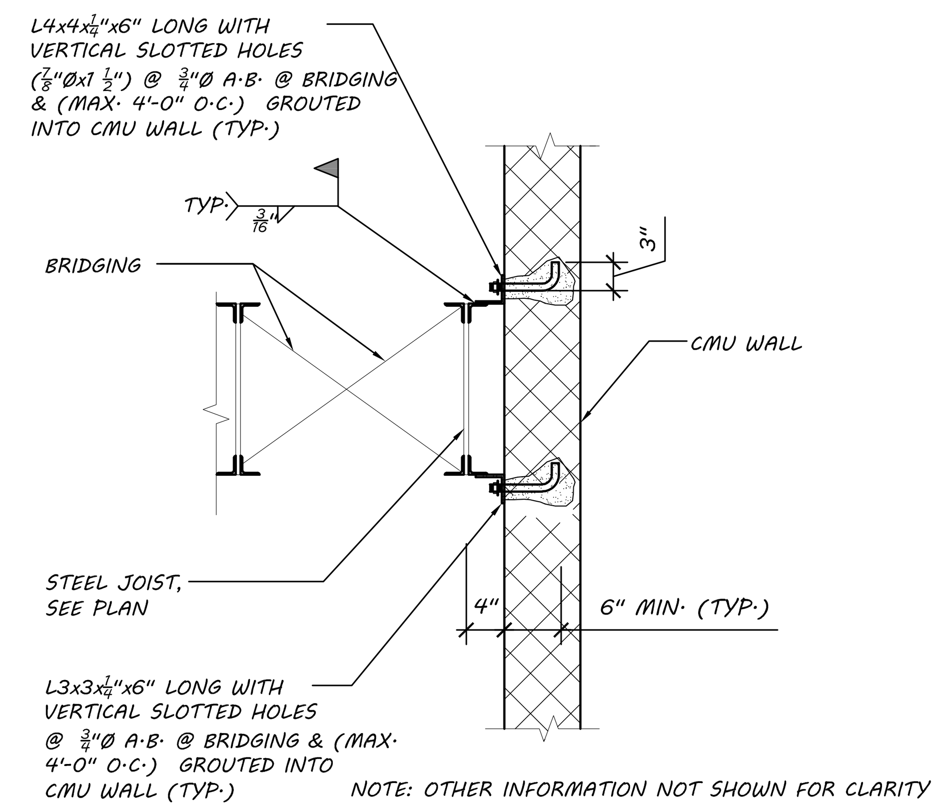
TYPICAL STEEL JOIST BEARING ON STEEL BEAM

TYPICAL DETAIL 1 / S-006
SCALE: N.T.S.



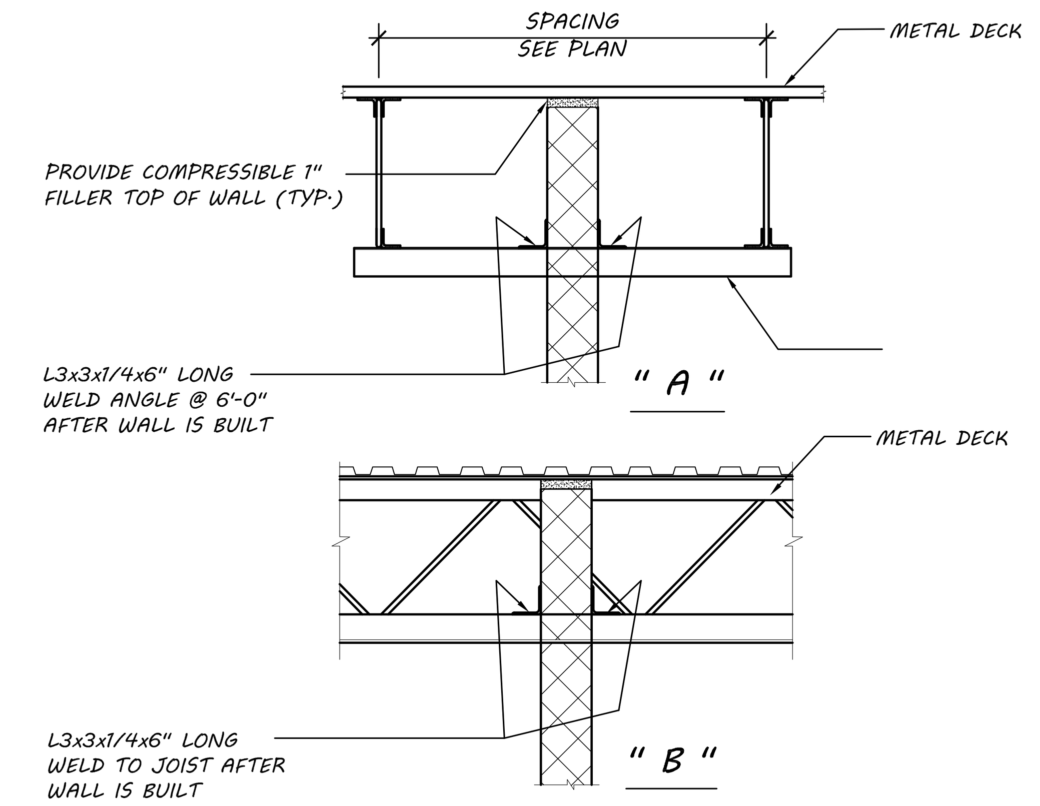
TYPICAL STEEL JOIST BEARING ON MASONRY

TYPICAL DETAIL 2 / S-006
SCALE: N.T.S.



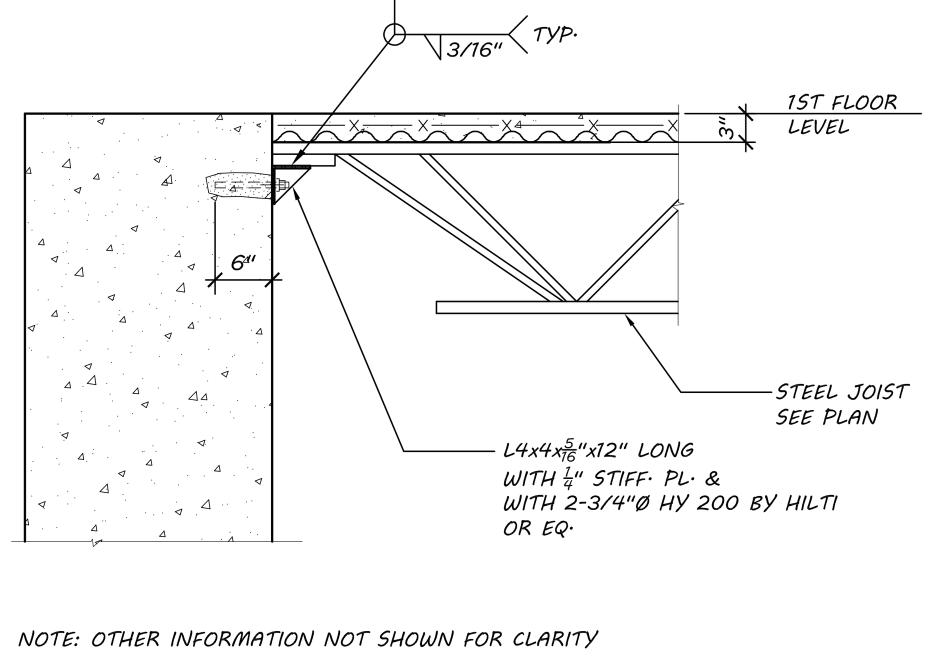
TYPICAL STEEL JOIST PARALLEL TO WALL

TYPICAL DETAIL 3 / S-006
SCALE: N.T.S.



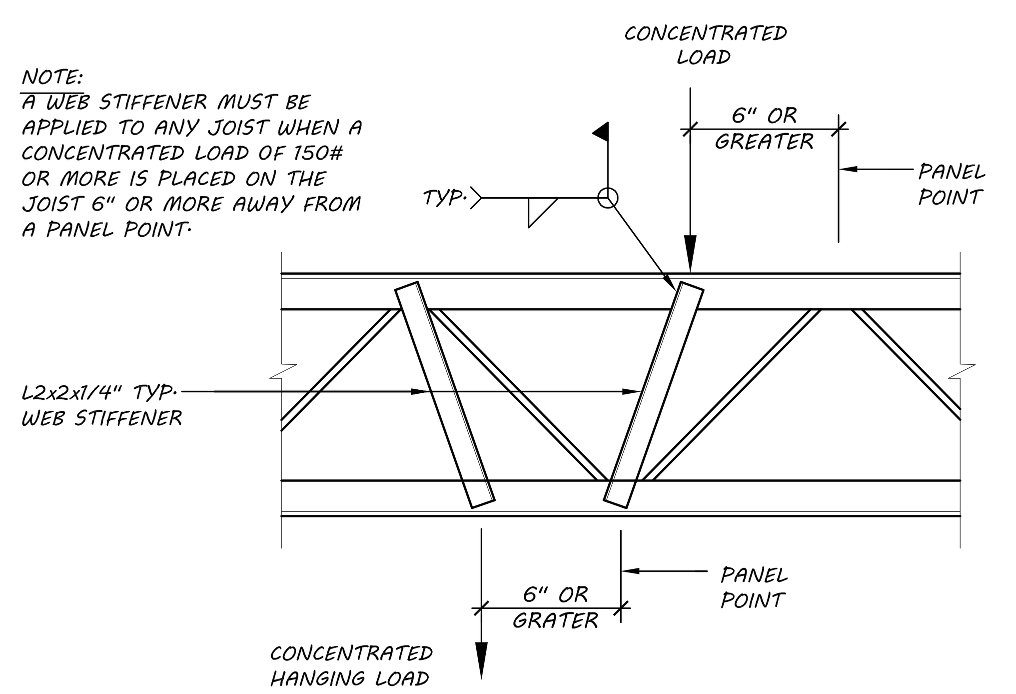
TYPICAL LATERAL SUPPORT OF INTERIOR MASONRY WALLS

TYPICAL DETAIL 4 / S-006
SCALE: N.T.S.



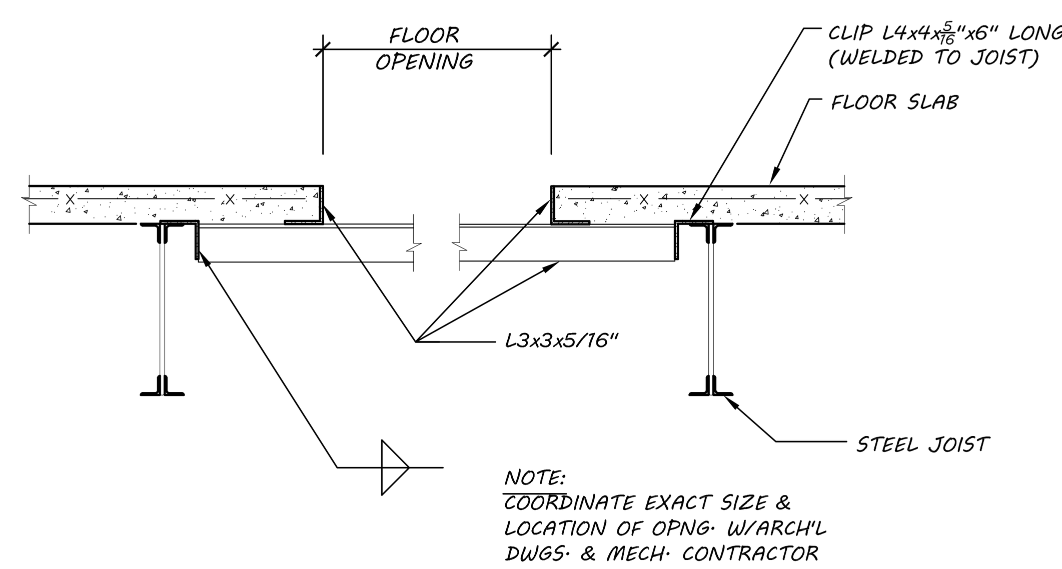
TYPICAL STEEL JOIST BEARING ON CONCRETE PIER

TYPICAL DETAIL 5 / S-006
SCALE: N.T.S.



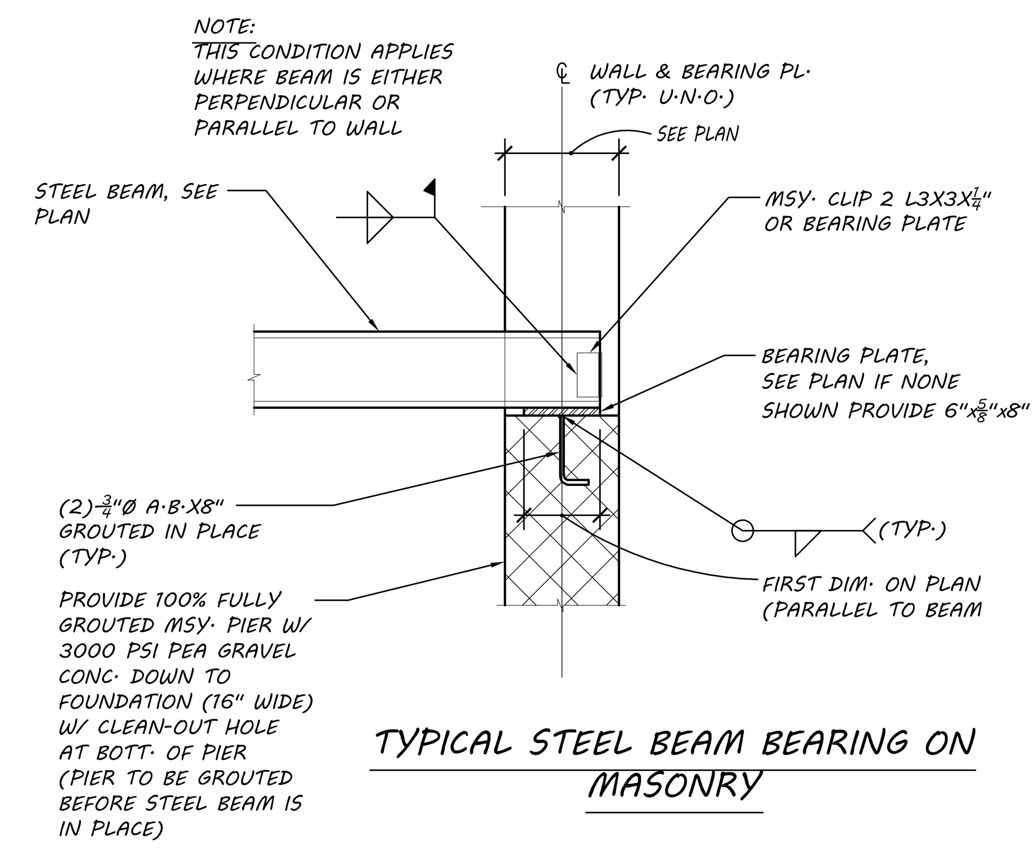
TYPICAL STEEL JOIST WEB STIFFENER

TYPICAL DETAIL 6 / S-006
SCALE: N.T.S.



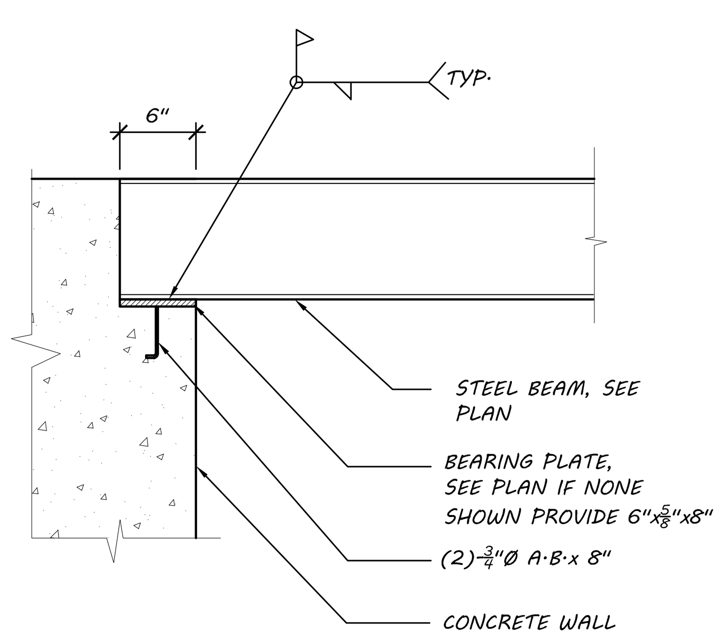
TYPICAL FLOOR OPENING

TYPICAL DETAIL 7 / S-006
SCALE: N.T.S.



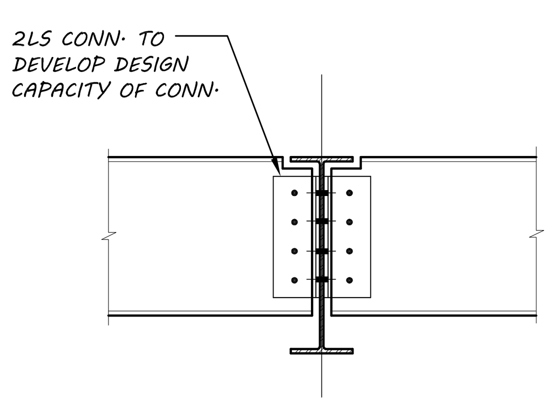
TYPICAL STEEL BEAM BEARING ON MASONRY

TYPICAL DETAIL 8 / S-006
SCALE: N.T.S.



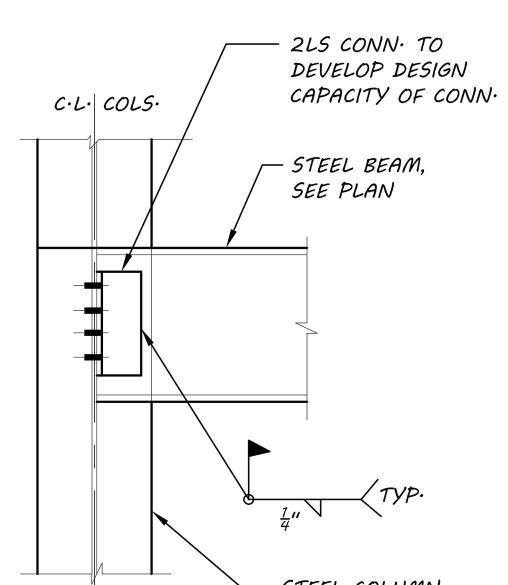
TYPICAL STEEL BEAM BEARING ON CONCRETE WALL

TYPICAL DETAIL 9 / S-006
SCALE: N.T.S.



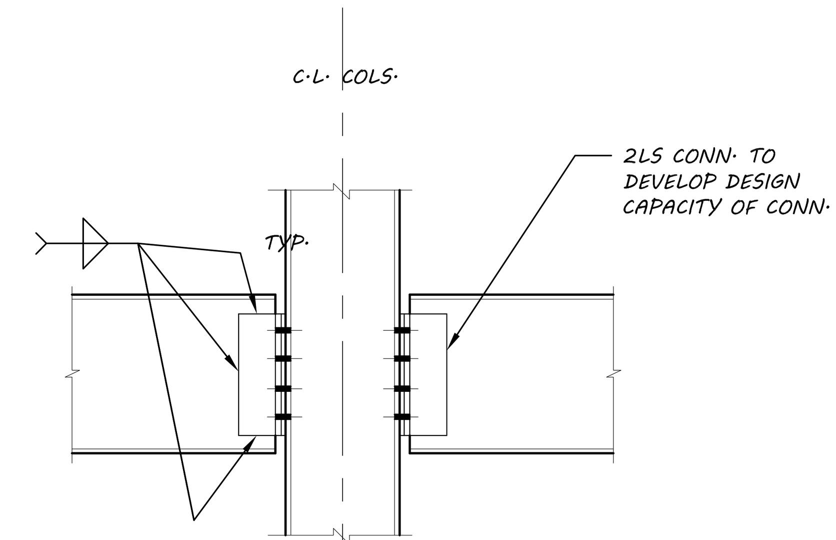
TYPICAL BEAM TO BEAM SHEAR CONNECTION

TYPICAL DETAIL 10 / S-006
SCALE: N.T.S.



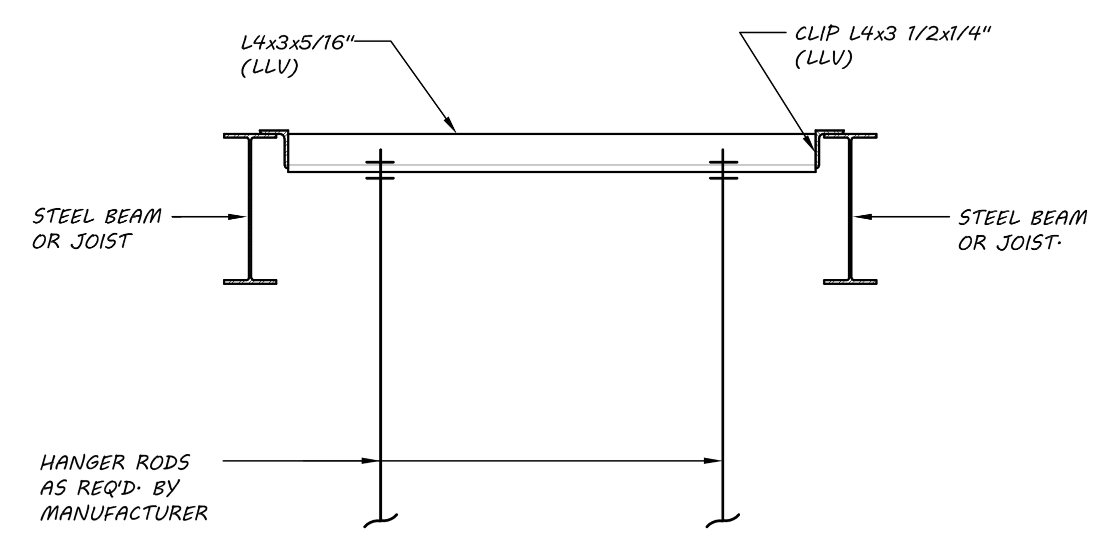
TYPICAL BEAM TO COLUMN SHEAR CONNECTION

TYPICAL DETAIL 11 / S-006
SCALE: N.T.S.



TYPICAL BEAM TO COLUMN SHEAR CONNECTION @ FLG.

TYPICAL DETAIL 12 / S-006
SCALE: N.T.S.

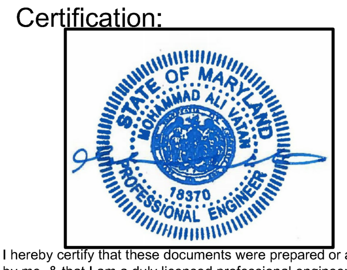


TYPICAL SUPPORT OF CEILING HUNG MECHANICAL EQUIPMENT

TYPICAL DETAIL 13 / S-006
SCALE: N.T.S.

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:



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License No. 18370, Exp. date: 08-12-2025

Project Title:
Iglesic Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

TYPICAL DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

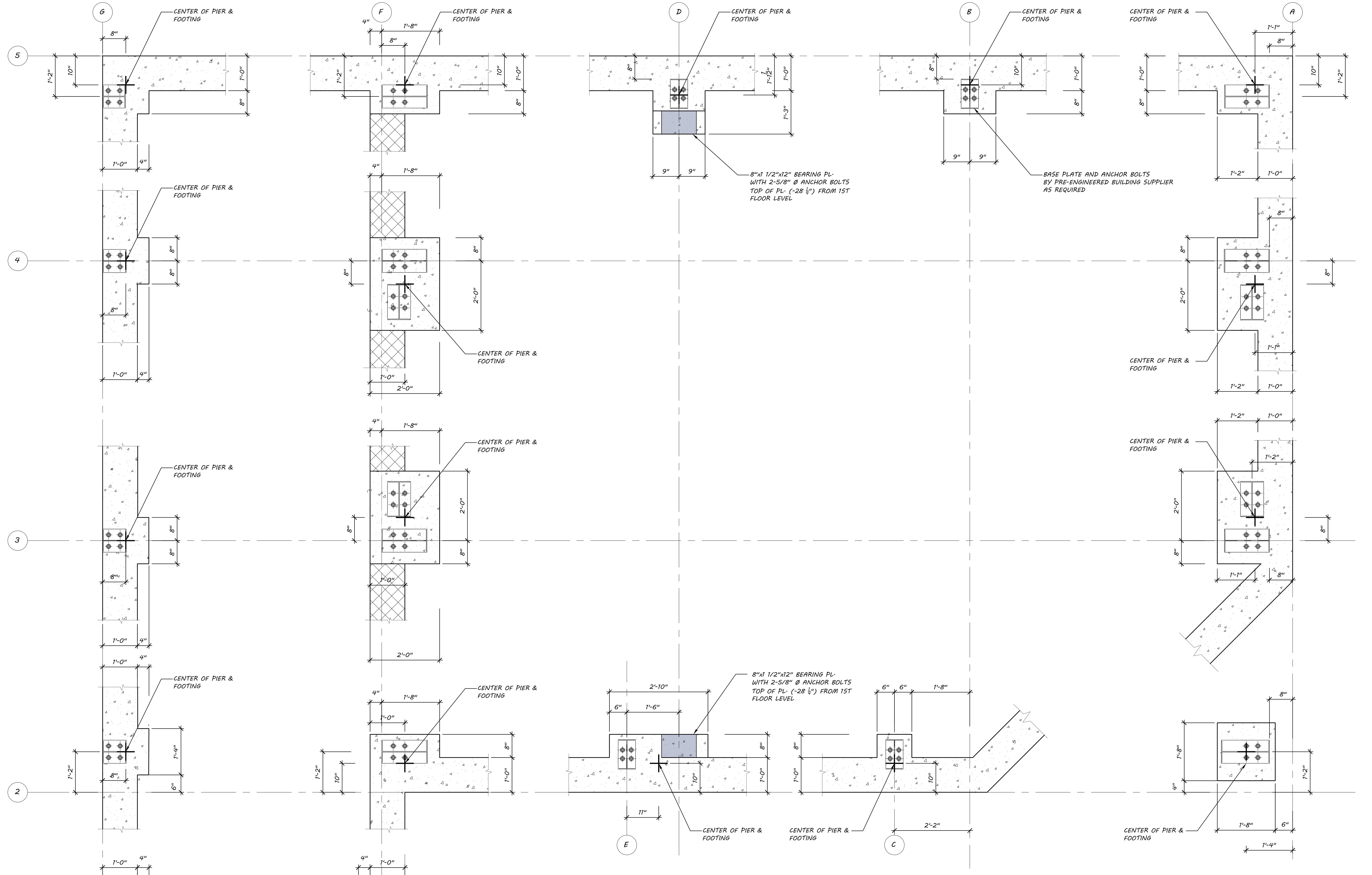
Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021
Scale: AS SHOWN
Drawn: GG
Checked: MV
File No.

Drawing No.
S-006



CONCRETE PIER DETAILS (PLAN)

1
S-007

SCALE: 3/4"=1'-0"

NOTES:

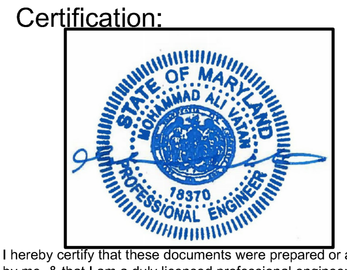
1. CENTER OF FOOTING IS THE SAME AS CENTER OF PIER.
2. G.C. SHALL COORDINATE ANCHOR BOLTS PLACEMENT DURING CONSTRUCTION OF WALLS AND PIERS TO MAKE SURE PLACED CORRECTLY BEFORE POURING CONCRETE.

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALE

Date:	Revisions:
10/25/2023	Updated for planter box

Certification:



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Iglesic Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

CONCRETE PIER DETAILS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
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Architect:
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Date: MARCH 22, 2021

Scale: AS SHOWN

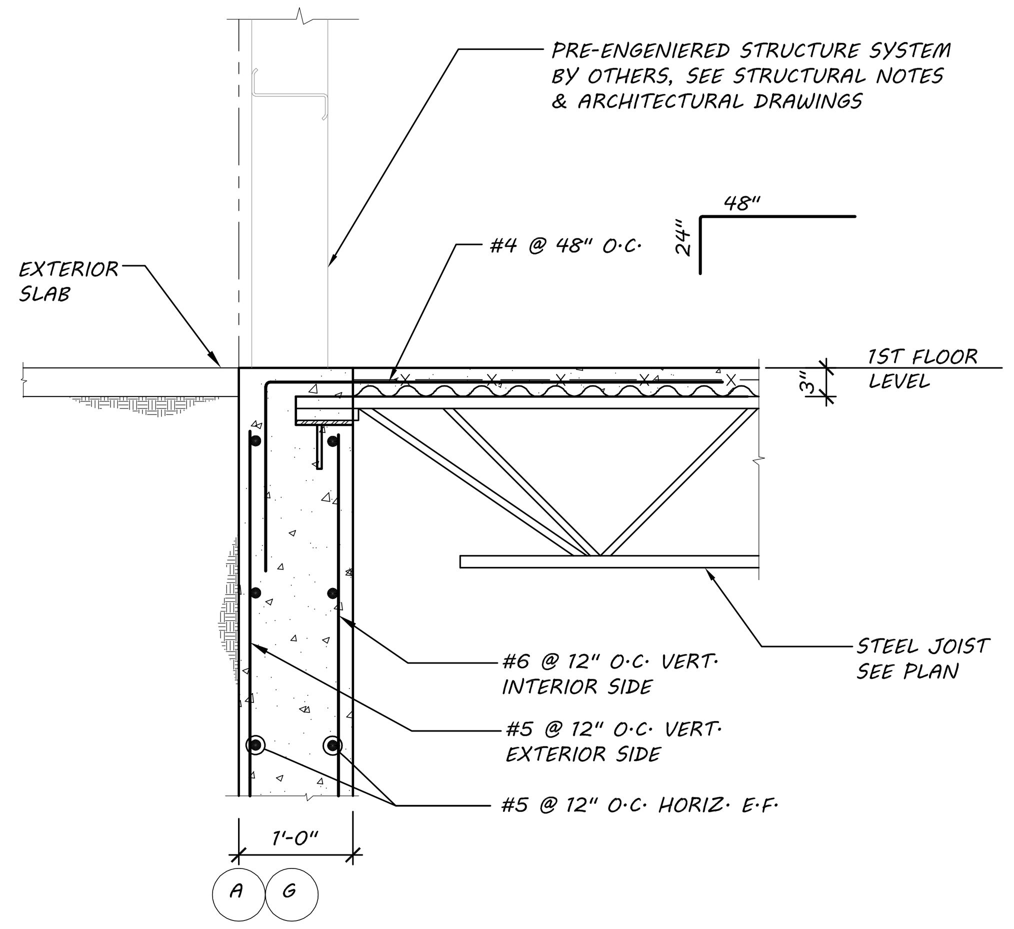
Drawn: GG

Checked: MV

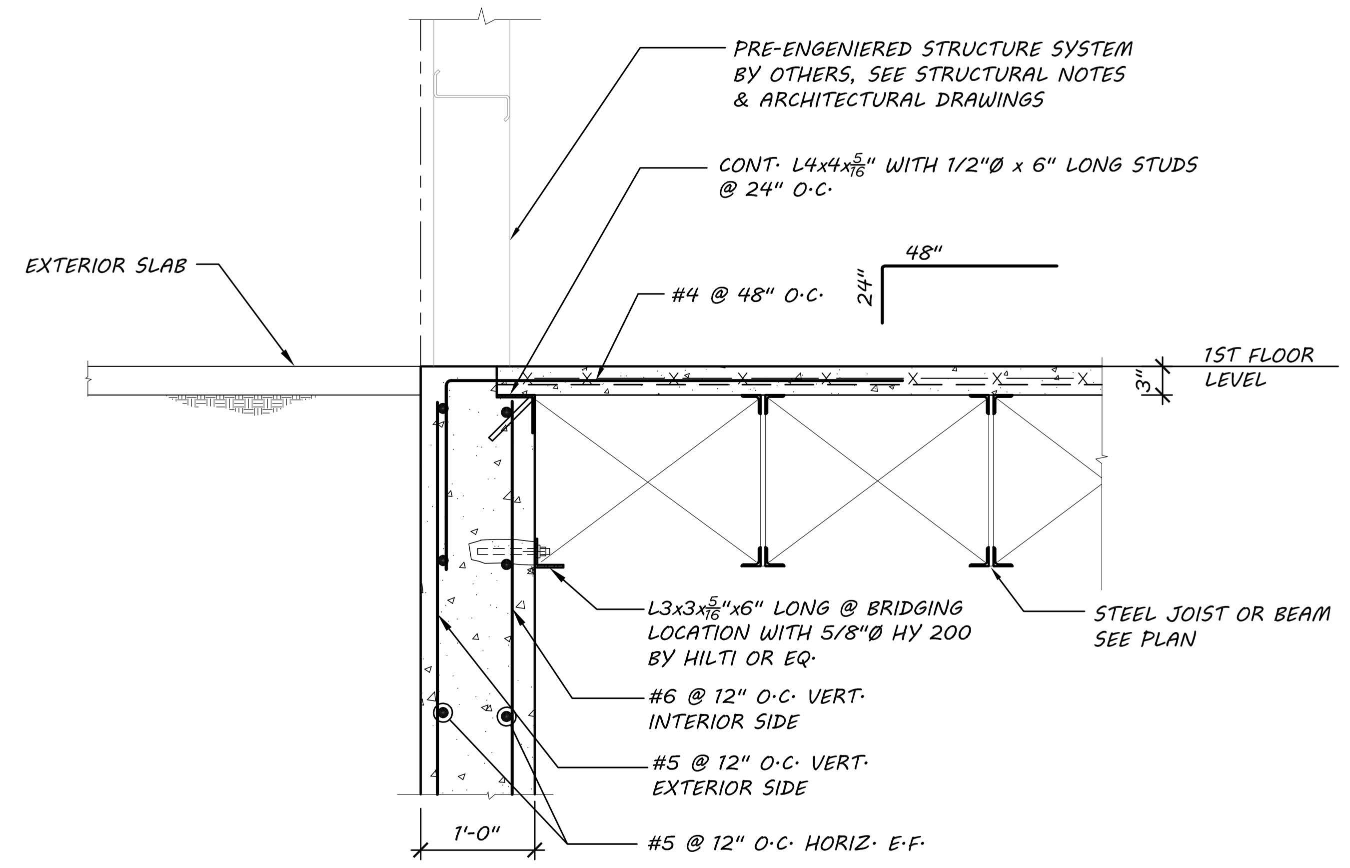
File No.

Drawing No.

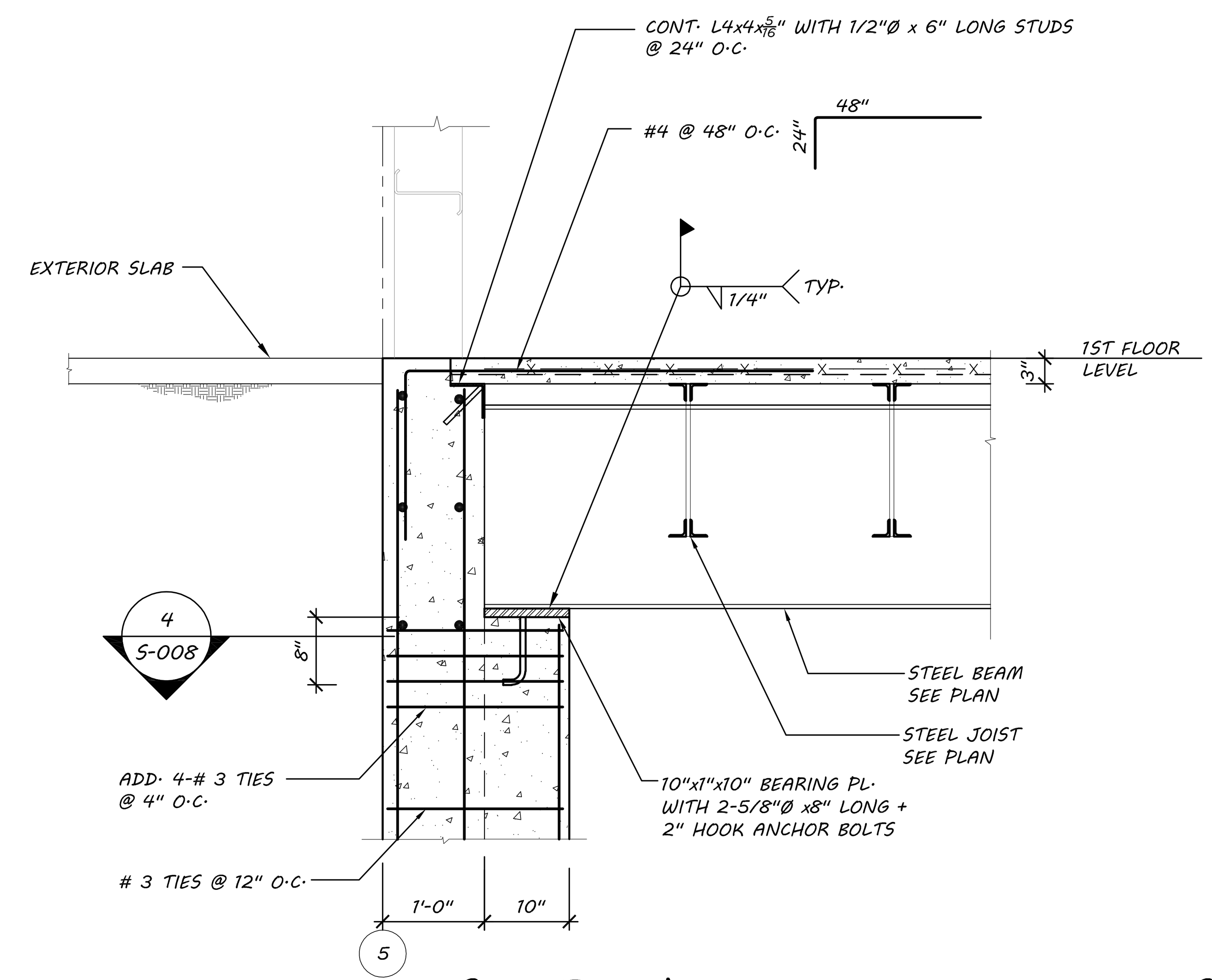
S-007



SECTION 1 S-008
SCALE: 3/4"=1'-0"



SECTION 2 S-008
SCALE: 3/4"=1'-0"



SECTION 3 S-008
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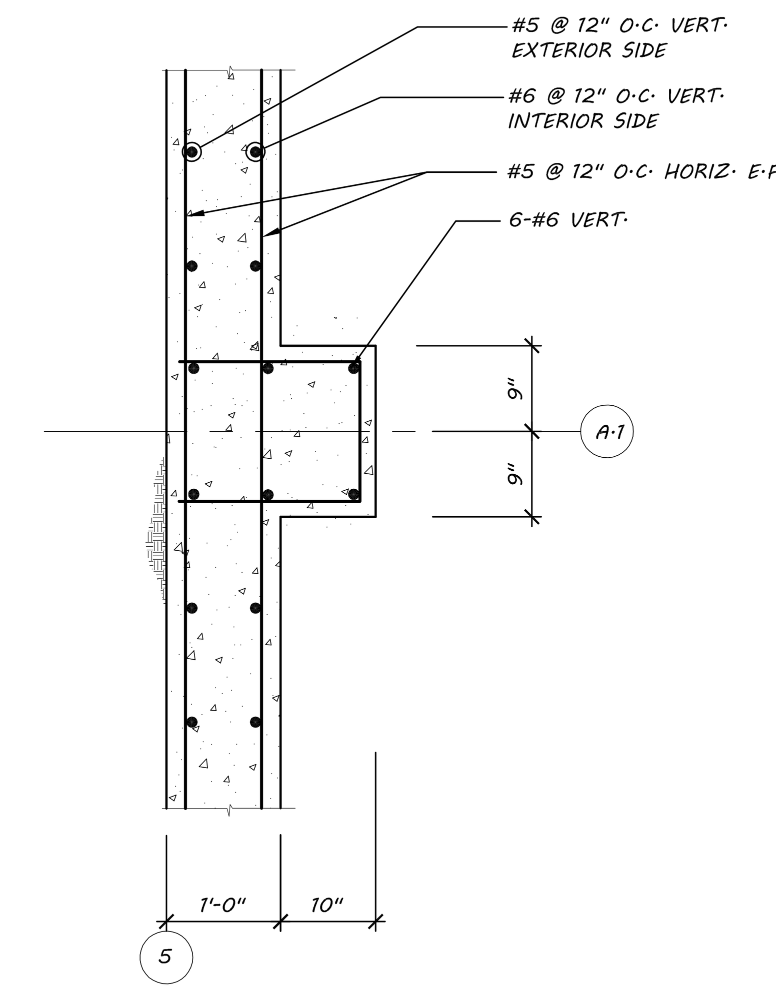
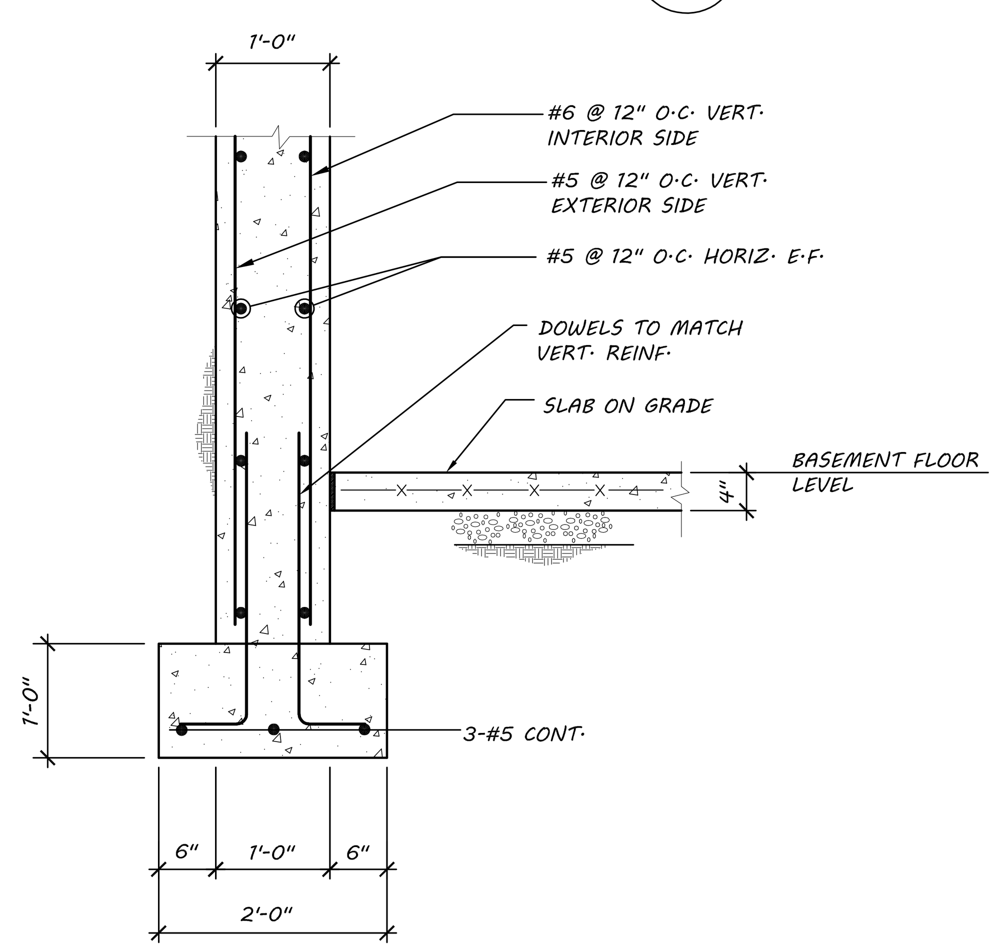
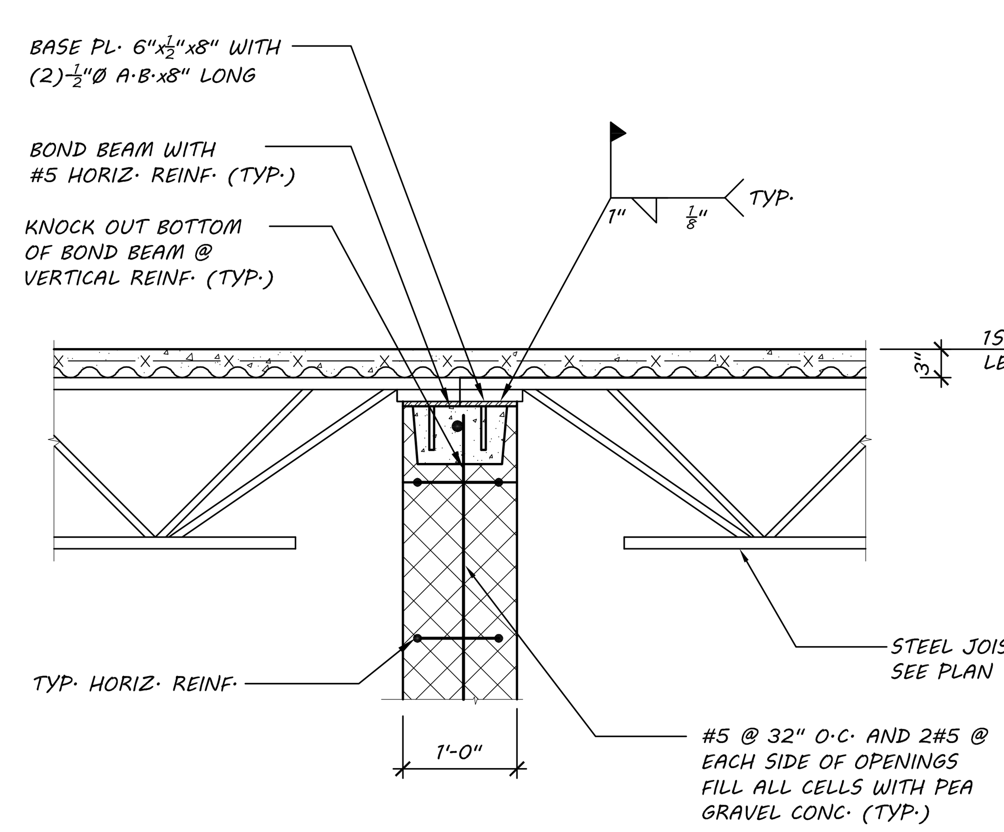


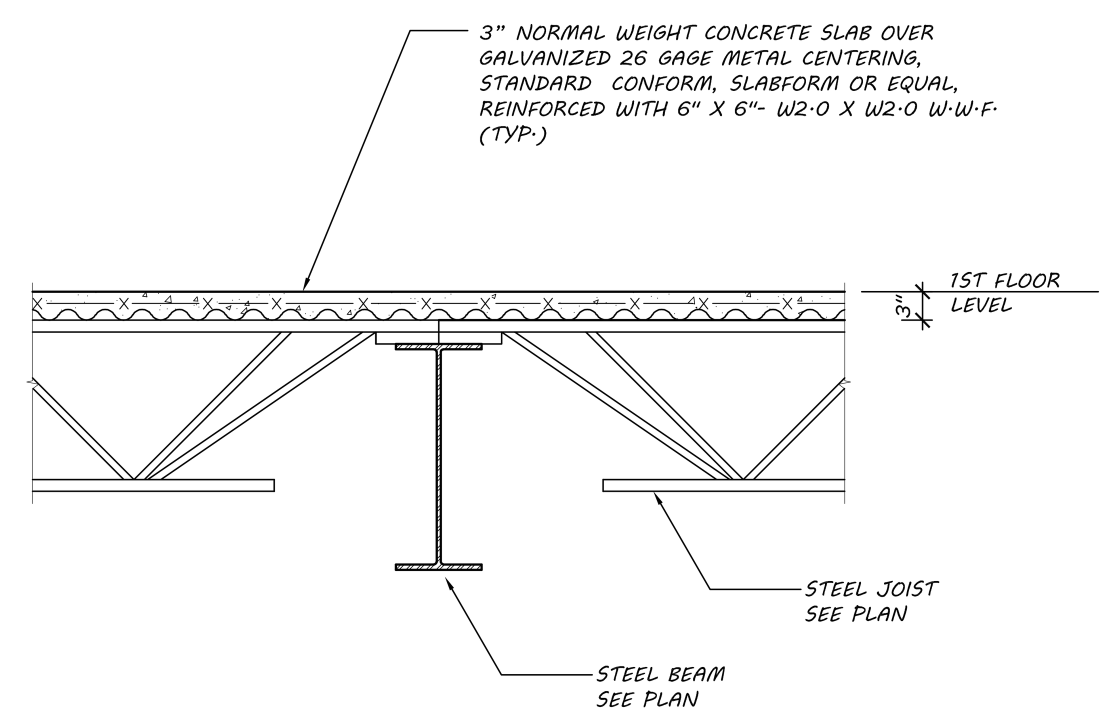
SECTION (PLAN) 4 S-008
SCALE: 3/4"=1'-0"



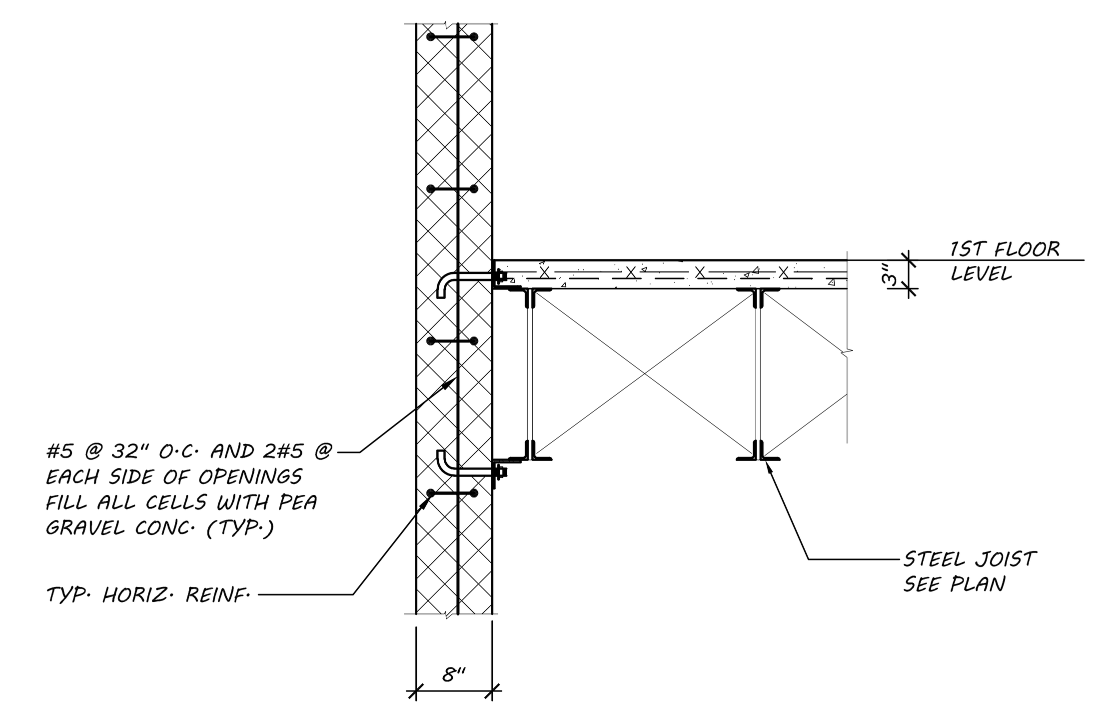
SECTION 5 S-008
SCALE: 3/4"=1'-0"



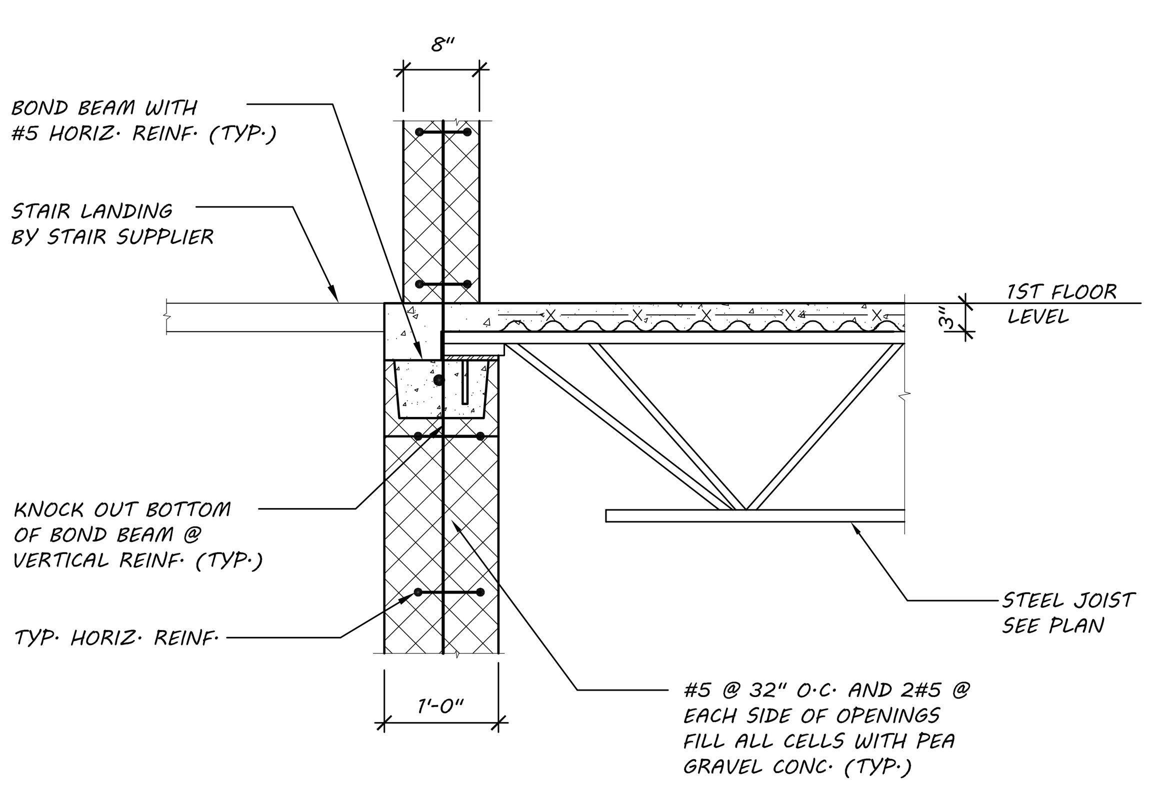
SECTION 6 S-008
SCALE: 3/4"=1'-0"



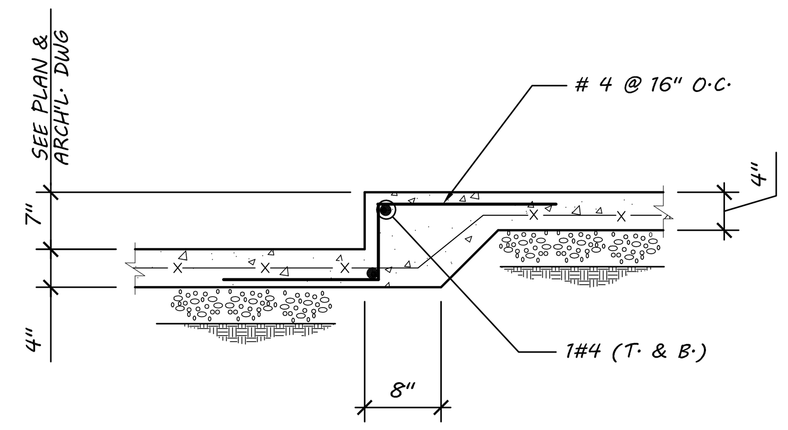
SECTION 7 S-008
SCALE: 3/4"=1'-0"



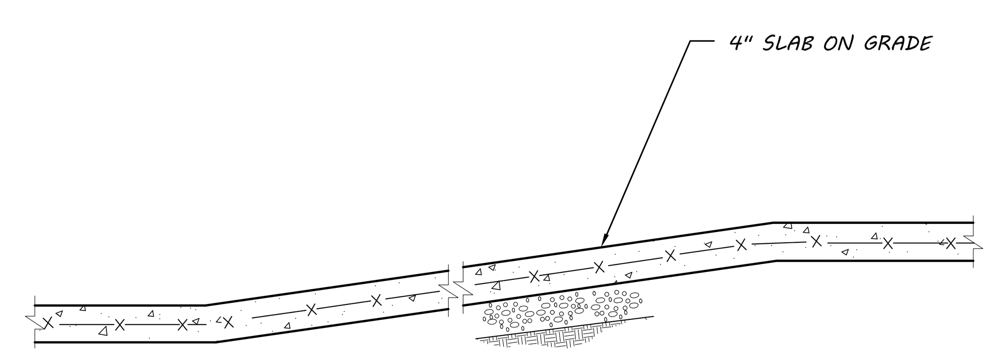
SECTION 8 S-008
SCALE: 3/4"=1'-0"



SECTION 9 S-008
SCALE: 3/4"=1'-0"



SECTION 10 S-008
SCALE: 3/4"=1'-0"

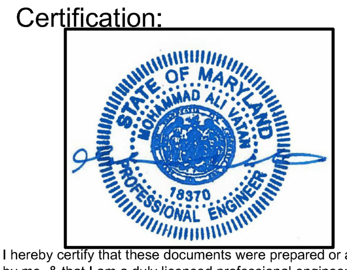


SECTION 11 S-008
SCALE: 3/4"=1'-0"

3/4"=1'-0" 12" 6" 0 1' 2' 3'
GRAPHIC SCALE

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:



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12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

SECTIONS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
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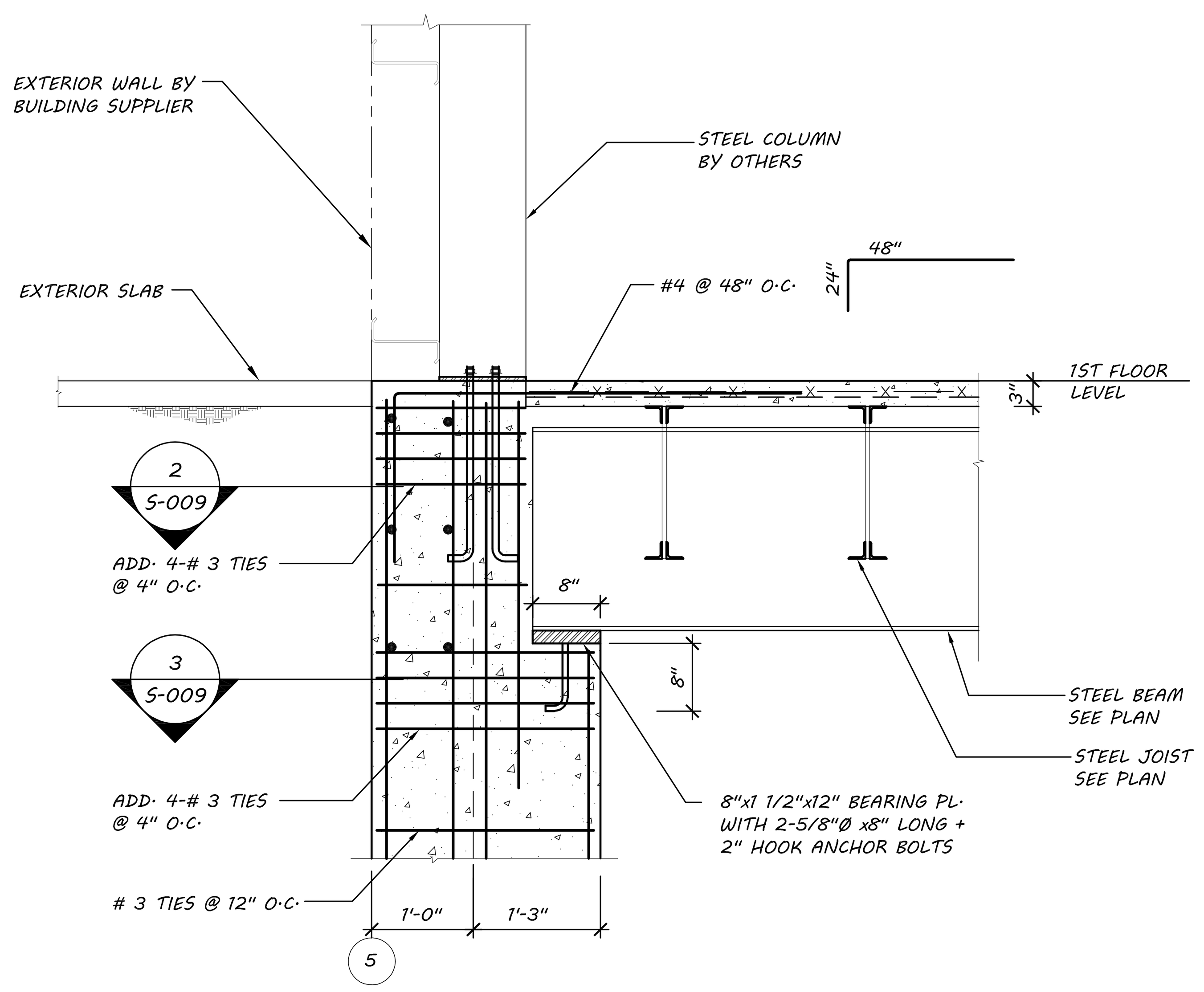
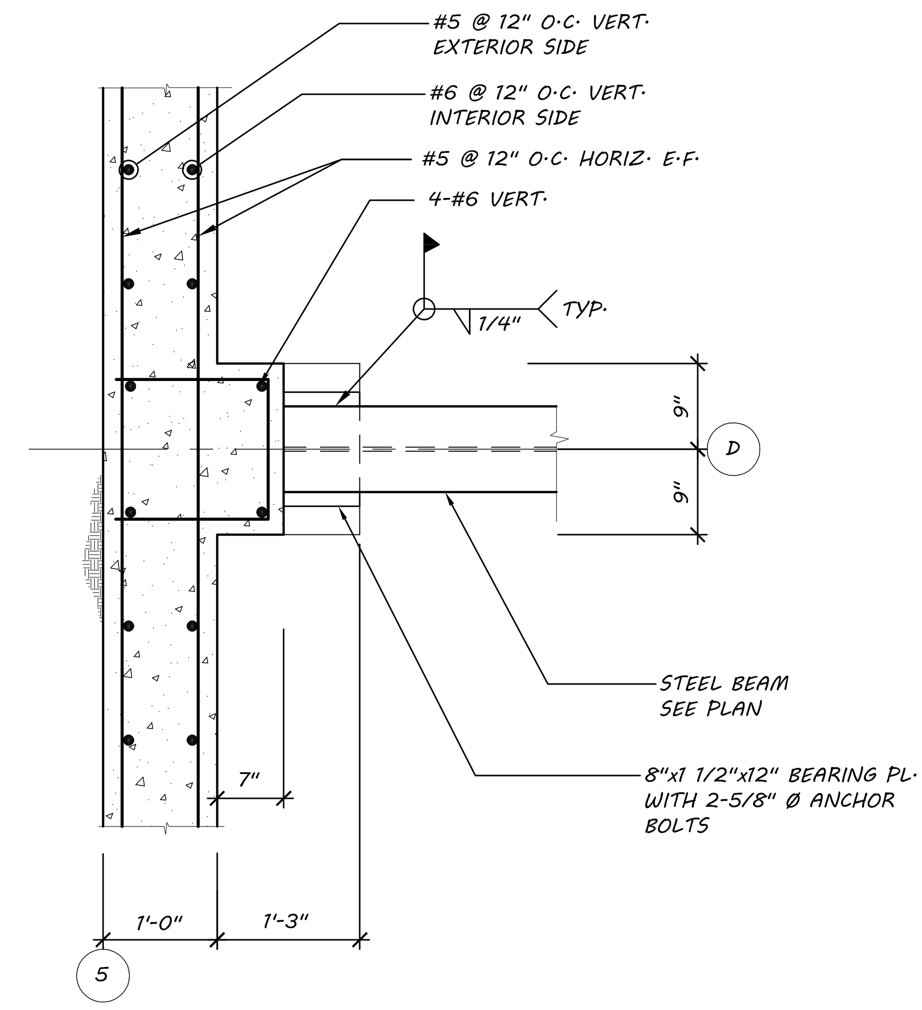
Date: MARCH 22, 2021
Scale: AS SHOWN
Drawn: GG
Checked: MV
File No.
Drawing No.
S-008
of



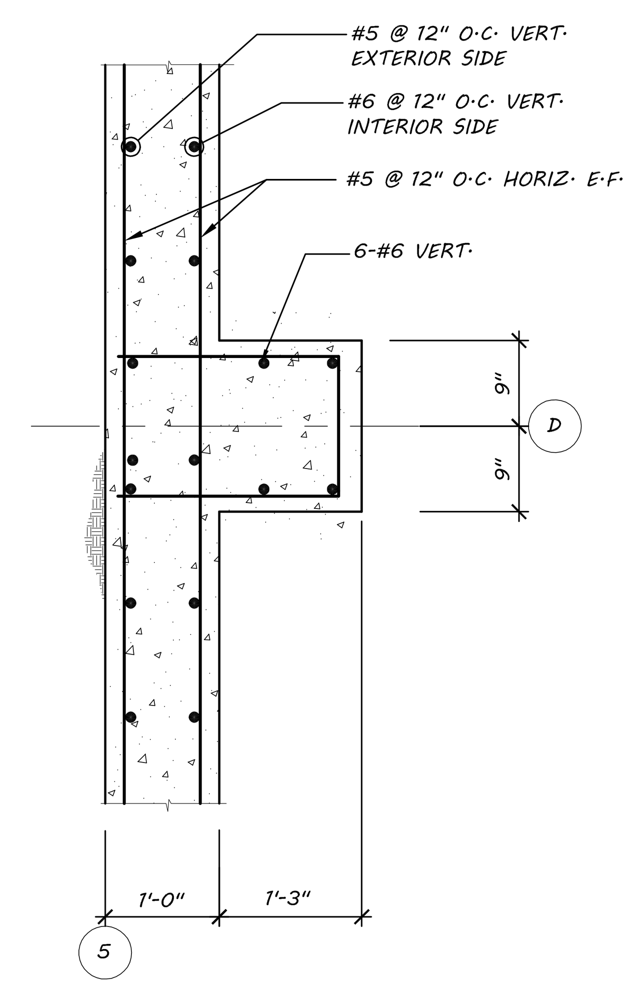
SECTION 1 S-009

SCALE: 3/4"=1'-0"



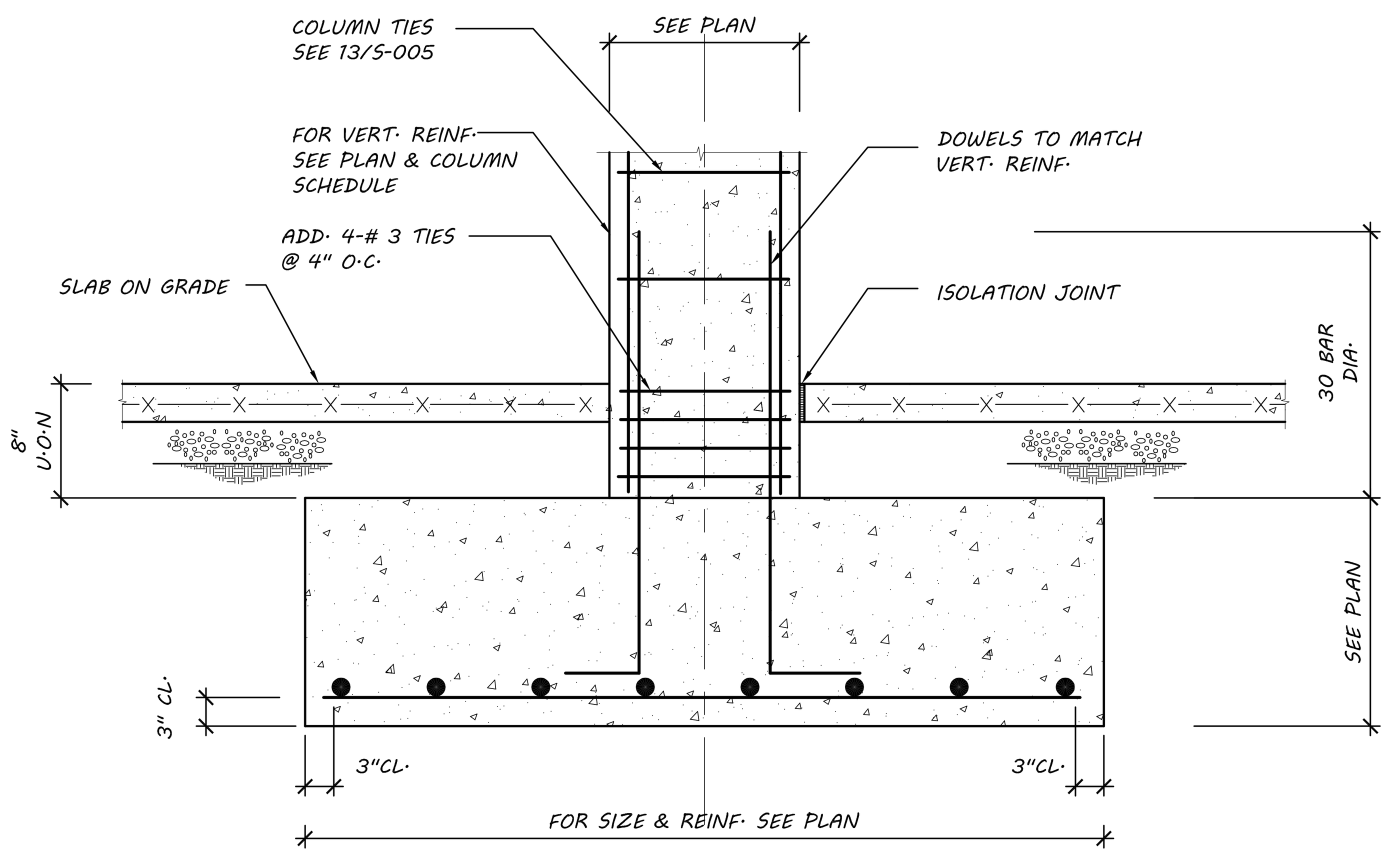
SECTION (PLAN) 2 S-009

SCALE: 3/4"=1'-0"



SECTION (PLAN) 3 S-009

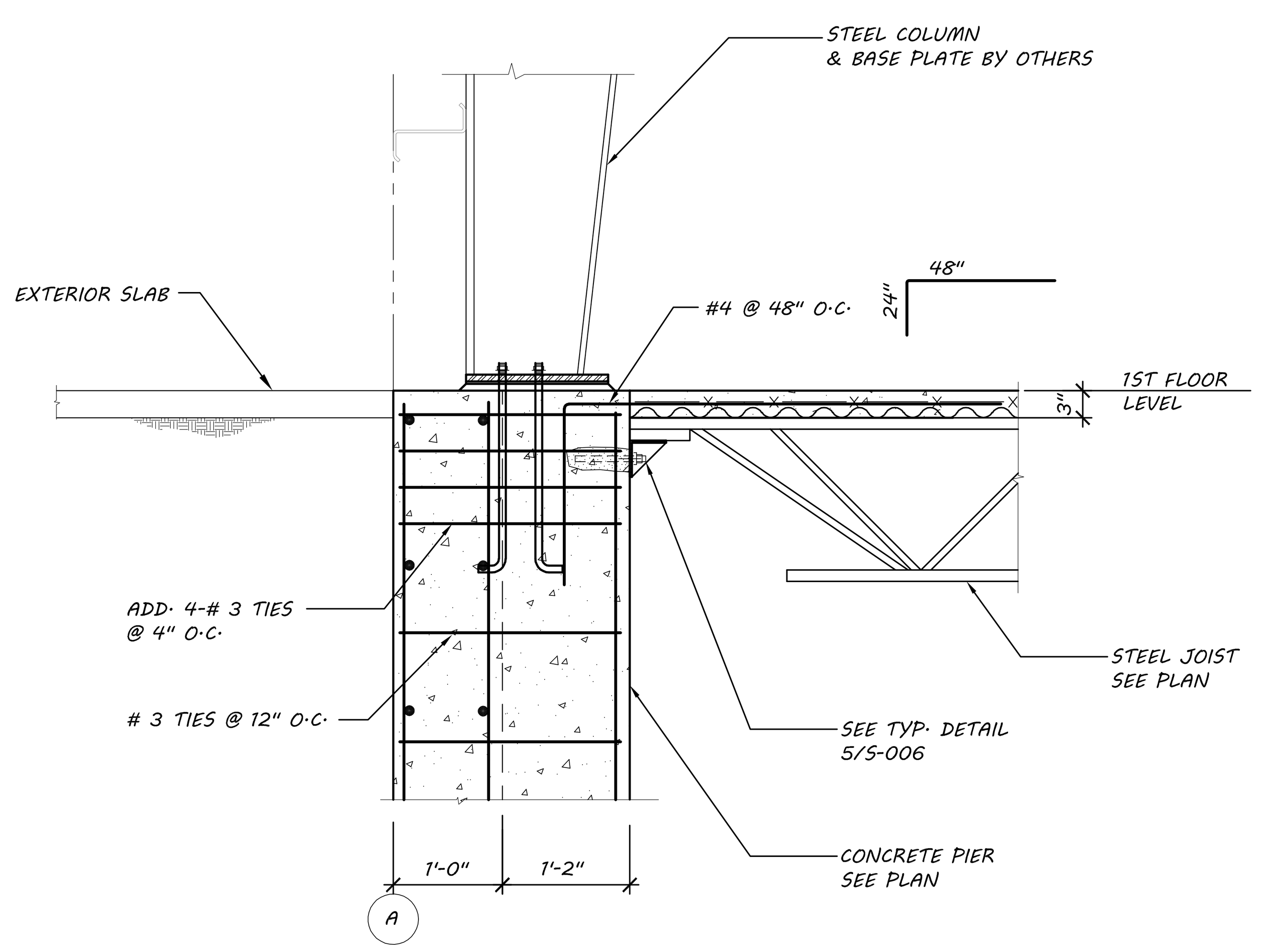
SCALE: 3/4"=1'-0"



CONCRETE PIER & FOOTING

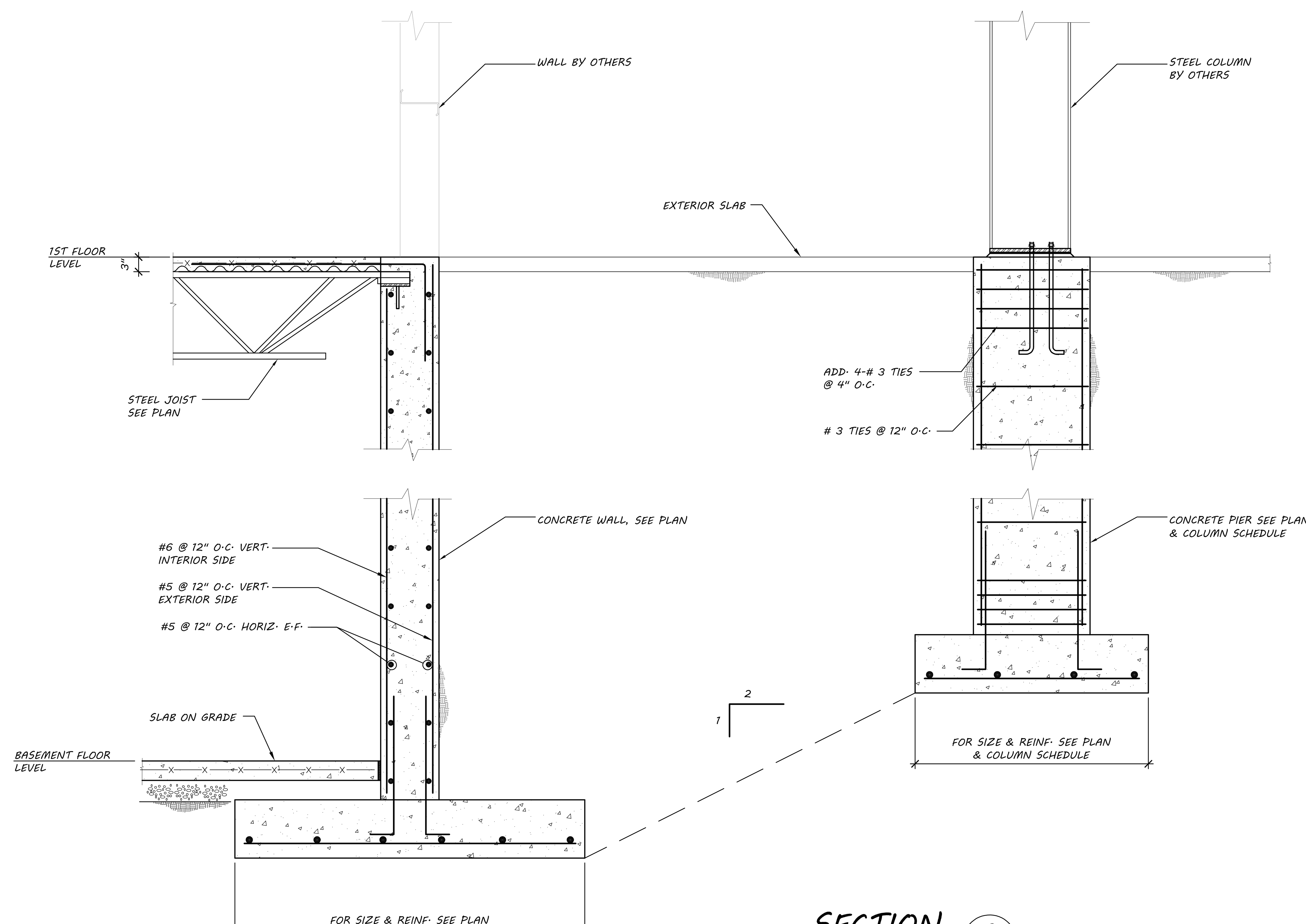
TYPICAL DETAIL 4 S-009

SCALE: N.T.S.



SECTION 5 S-009

SCALE: 3/4"=1'-0"



SECTION 6 S-009

SCALE: 3/4"=1'-0"

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALE

Revisions:	Date:
Updated for planter box	10/25/2023

Certification:

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Project Title:

Iglesic Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

SECTIONS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
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9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021

Scale: AS SHOWN

Drawn: GG

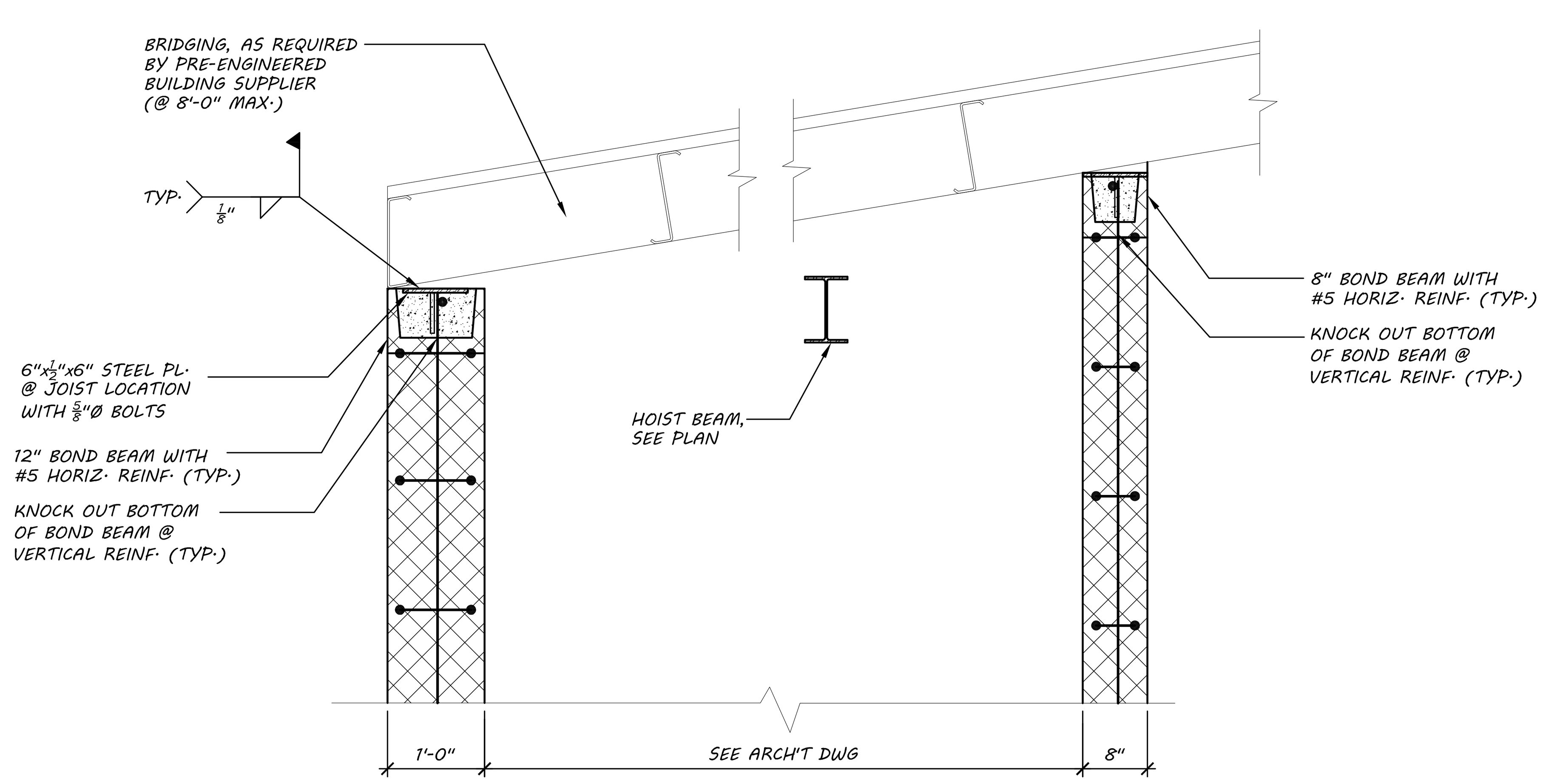
Checked: MV

File No.

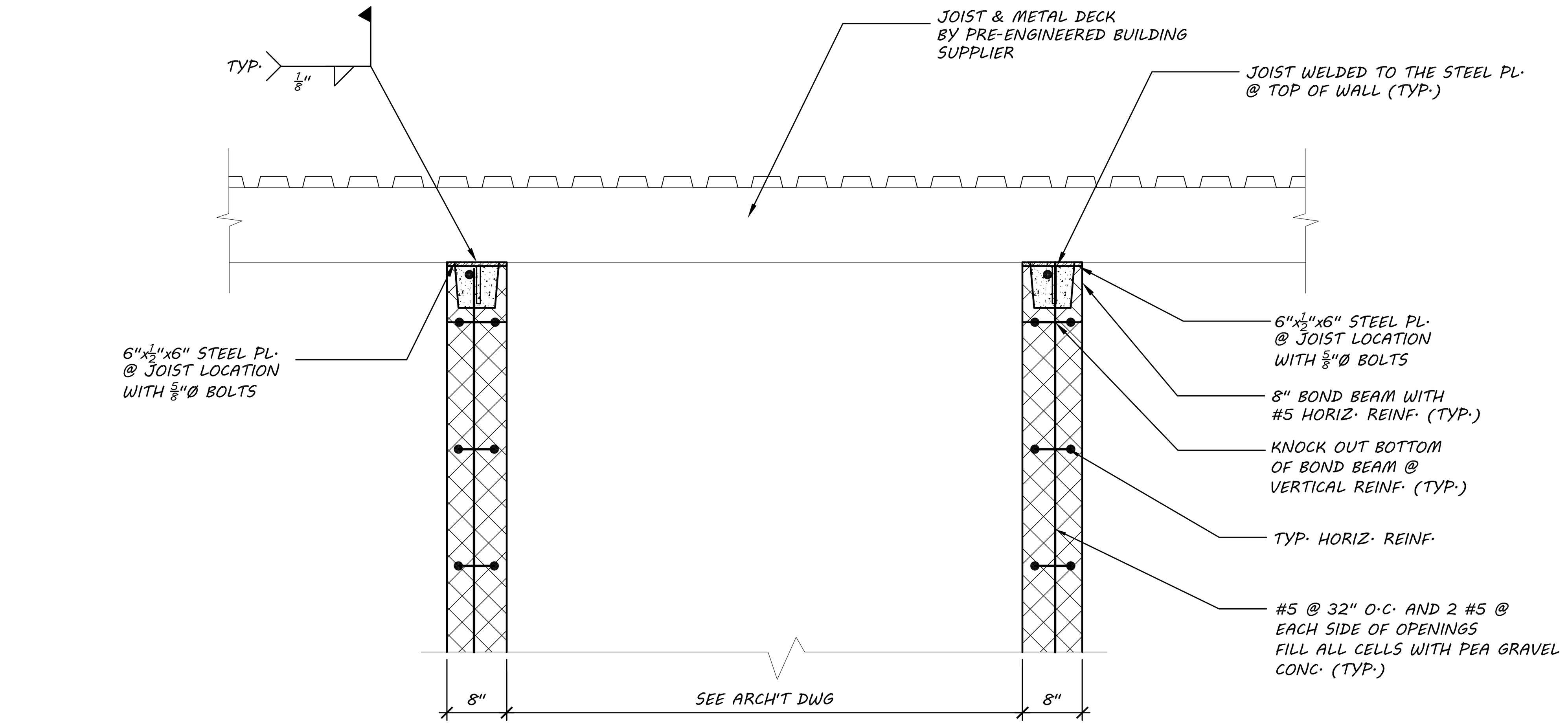
Drawing No.

S-009

of



SECTION 1 / S-010
SCALE: 3/4"=1'-0"



SECTION 4 / S-010
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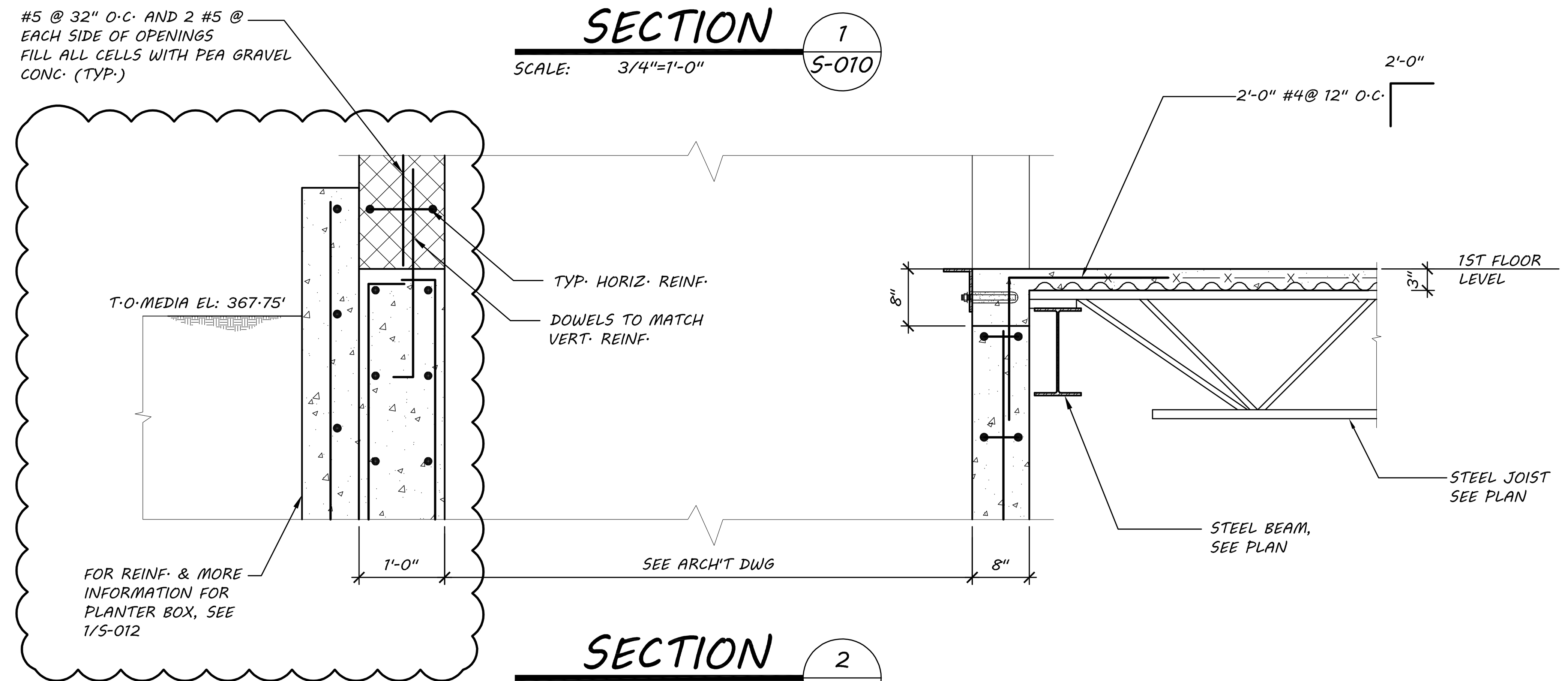

SECTION 2 / S-010
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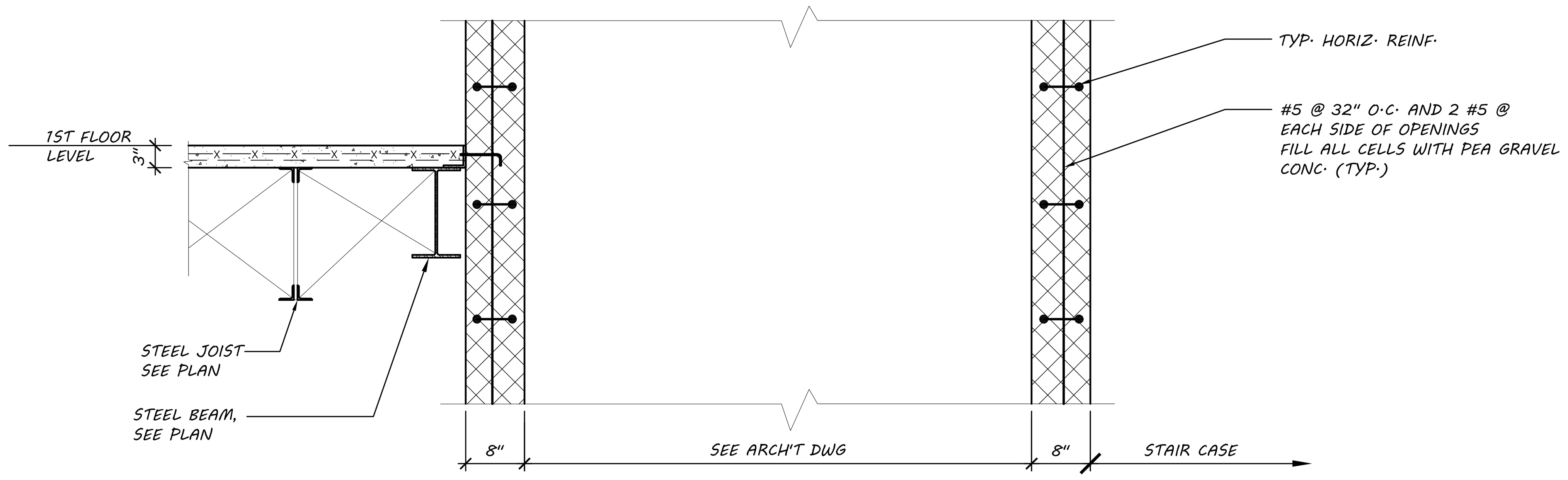

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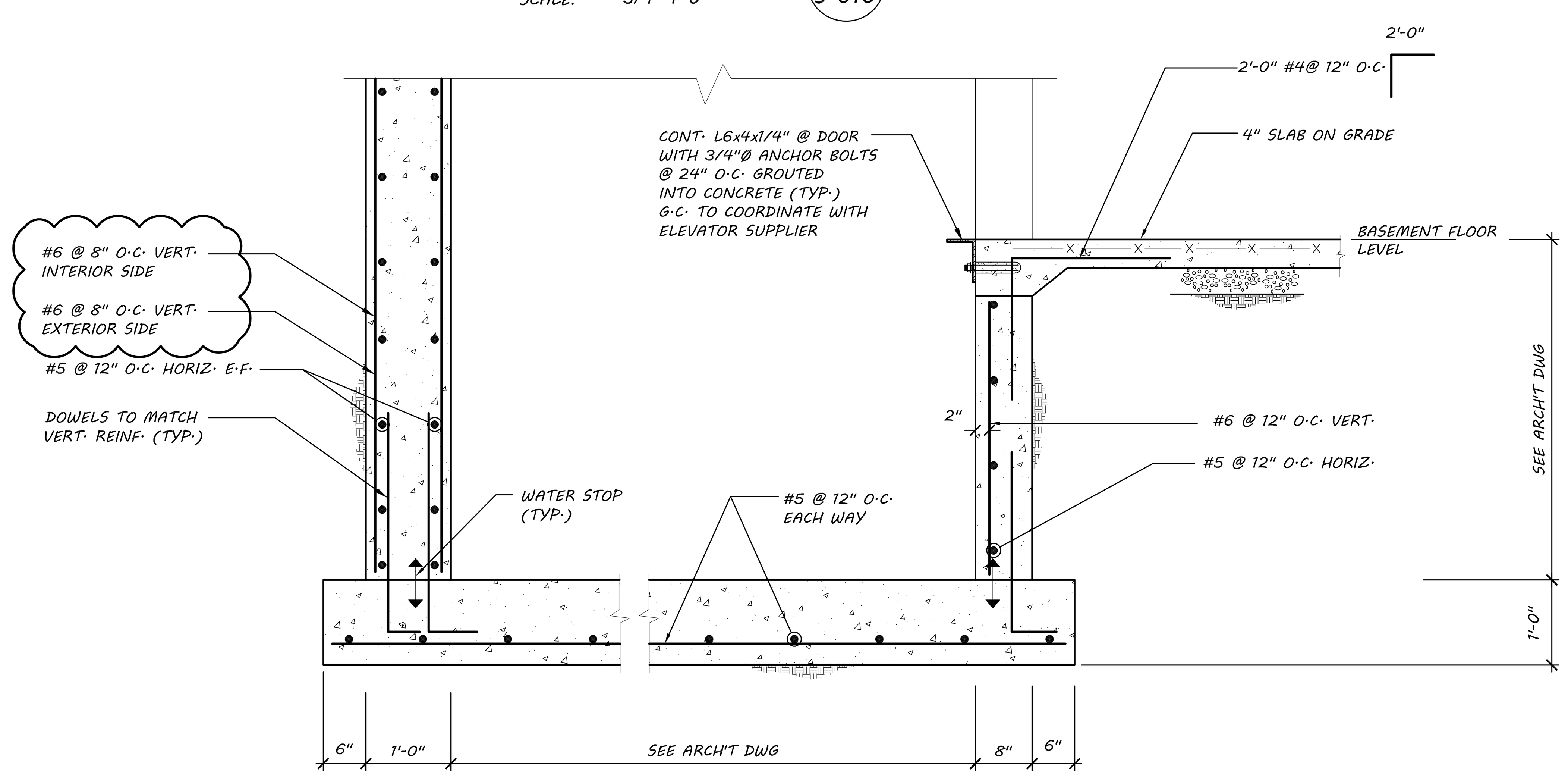

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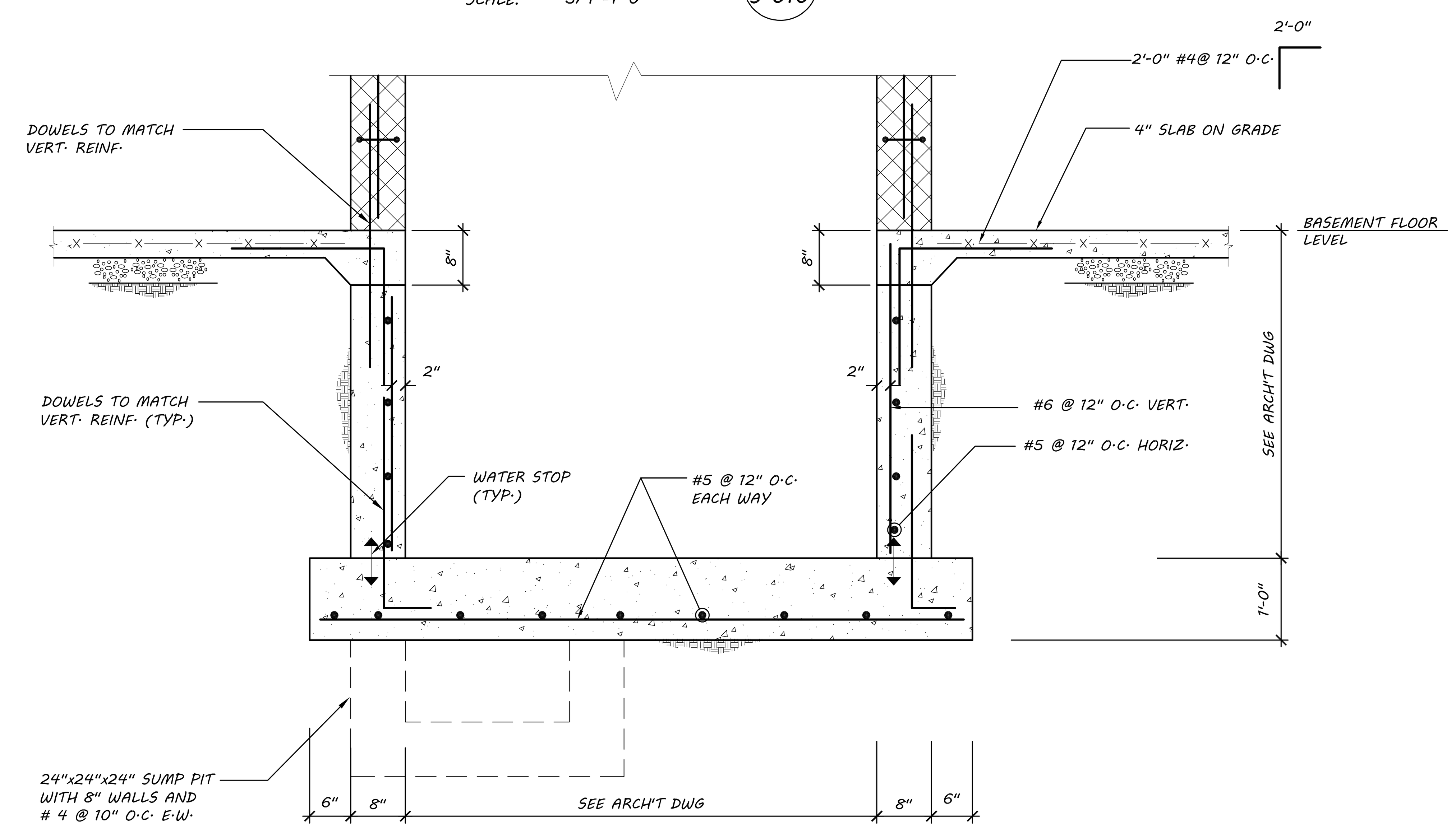

SECTION 6 / S-010
SCALE: 3/4"=1'-0"

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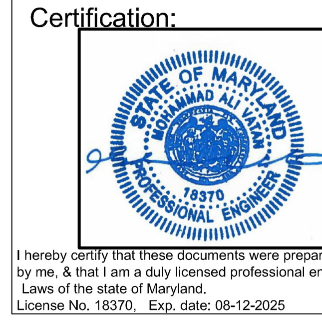
GRAPHIC SCALE

Date:	Revisions:
10/25/2023	Updated for planter box

Certification:



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License No. 18370. Exp. date: 08-12-2025

Project Title:
Iglesic Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

SECTIONS

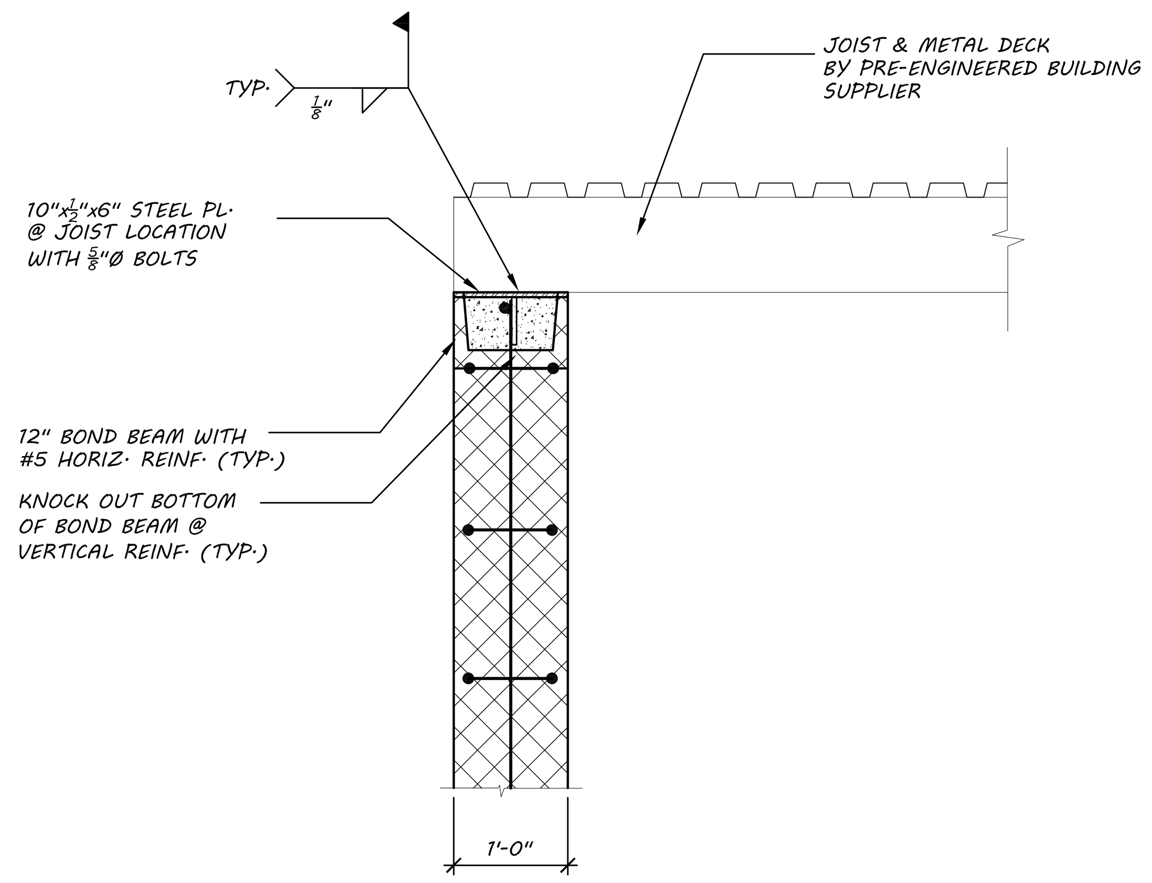
German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Mechanical & Electrical Engineer:
Charles Ford & Associates
13100 Collingwood Terrace
Silver Spring, Maryland 20904
Phone: 202-436-0812

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021
Scale: AS SHOWN
Drawn: GG
Checked: MV
File No.
Drawing No.
S-010
of



SECTION 1 S-011
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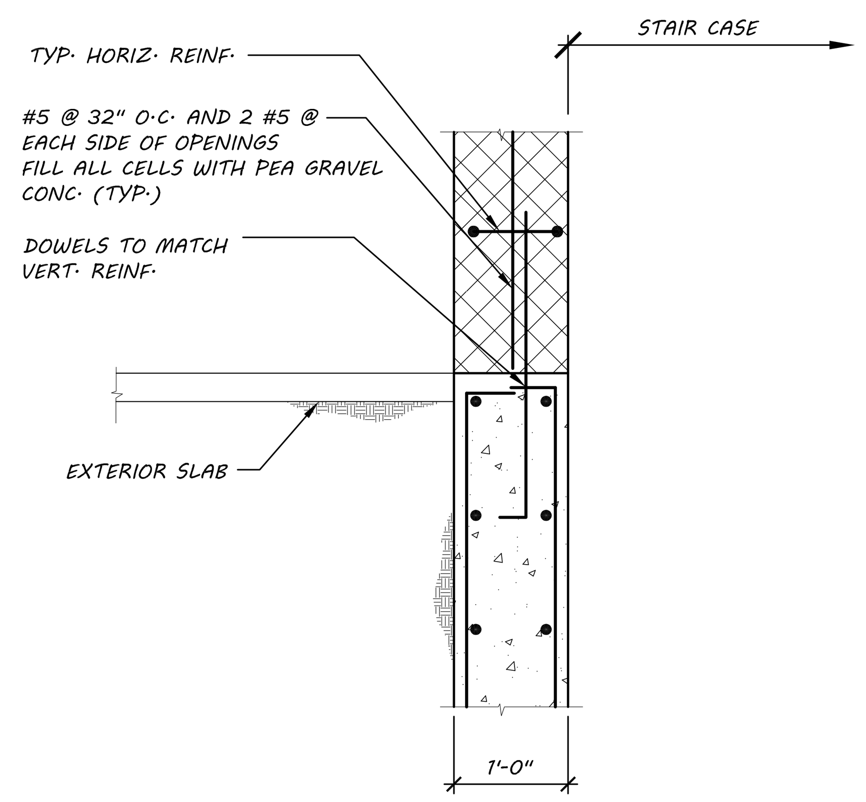

SECTION 2 S-011
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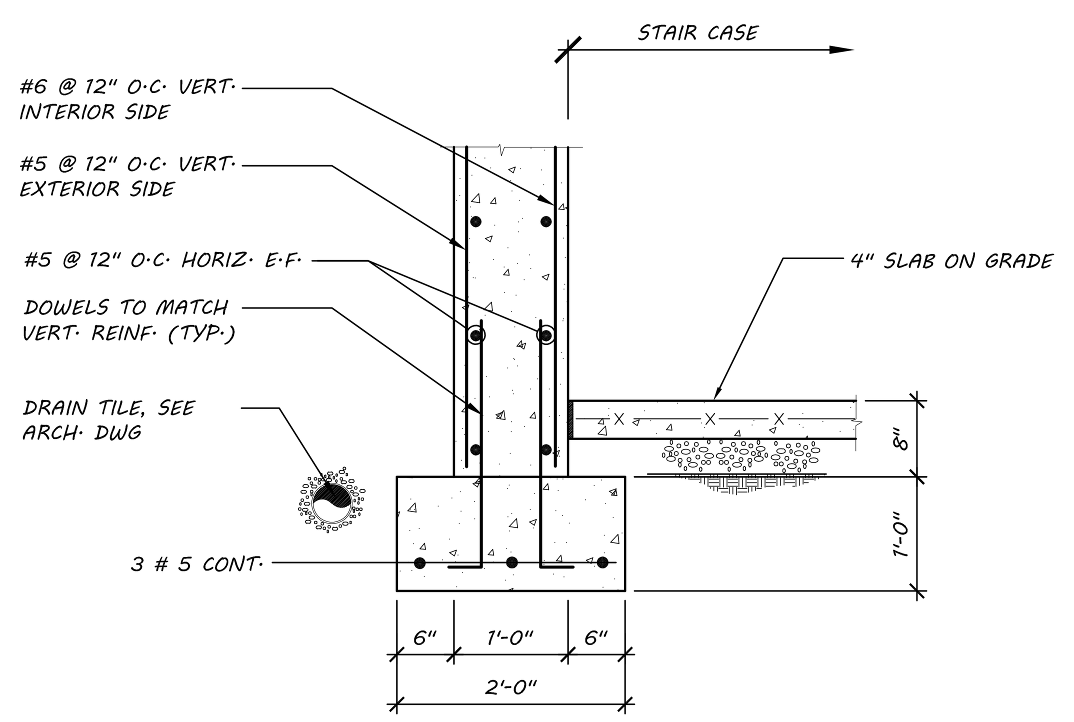

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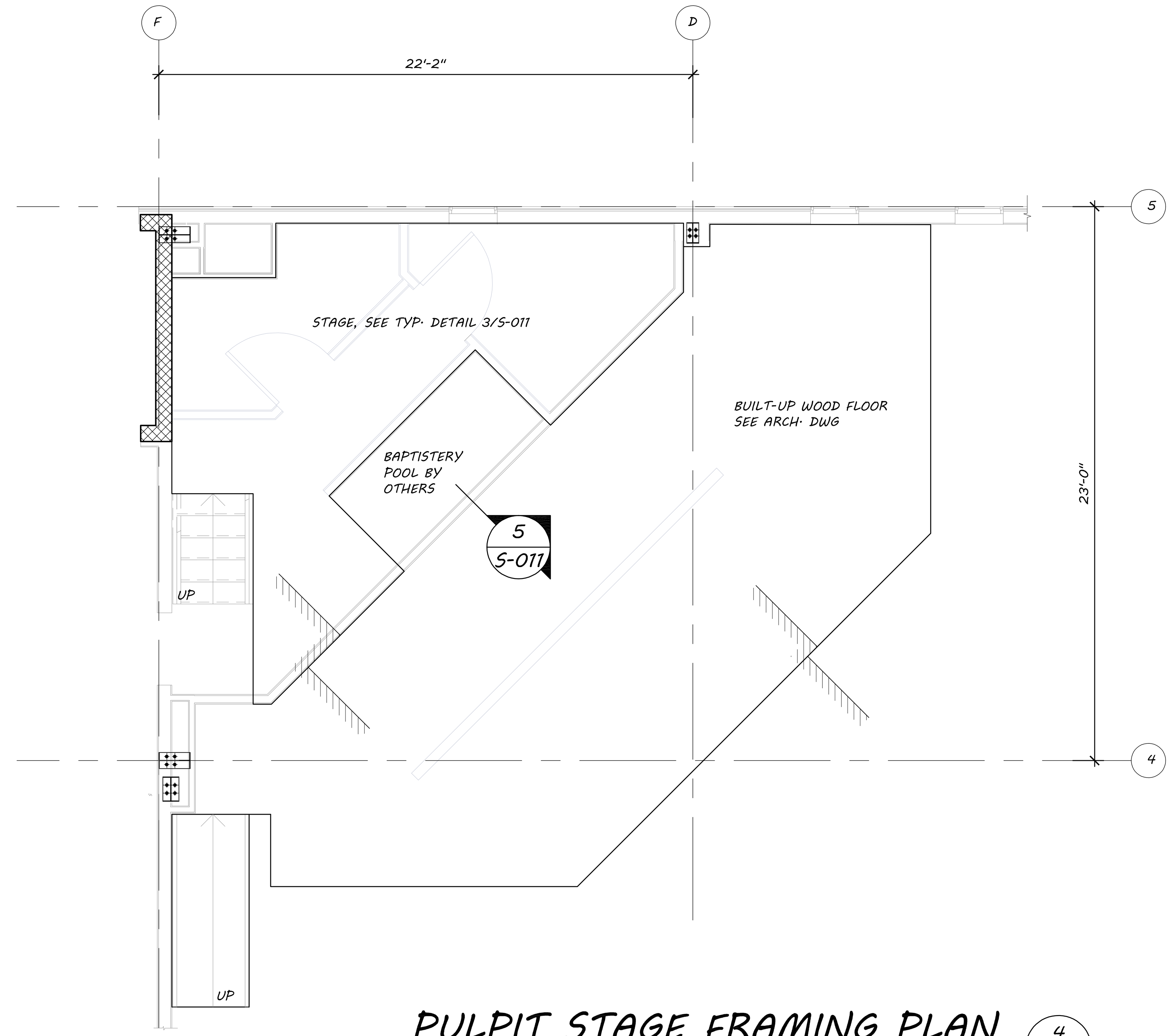
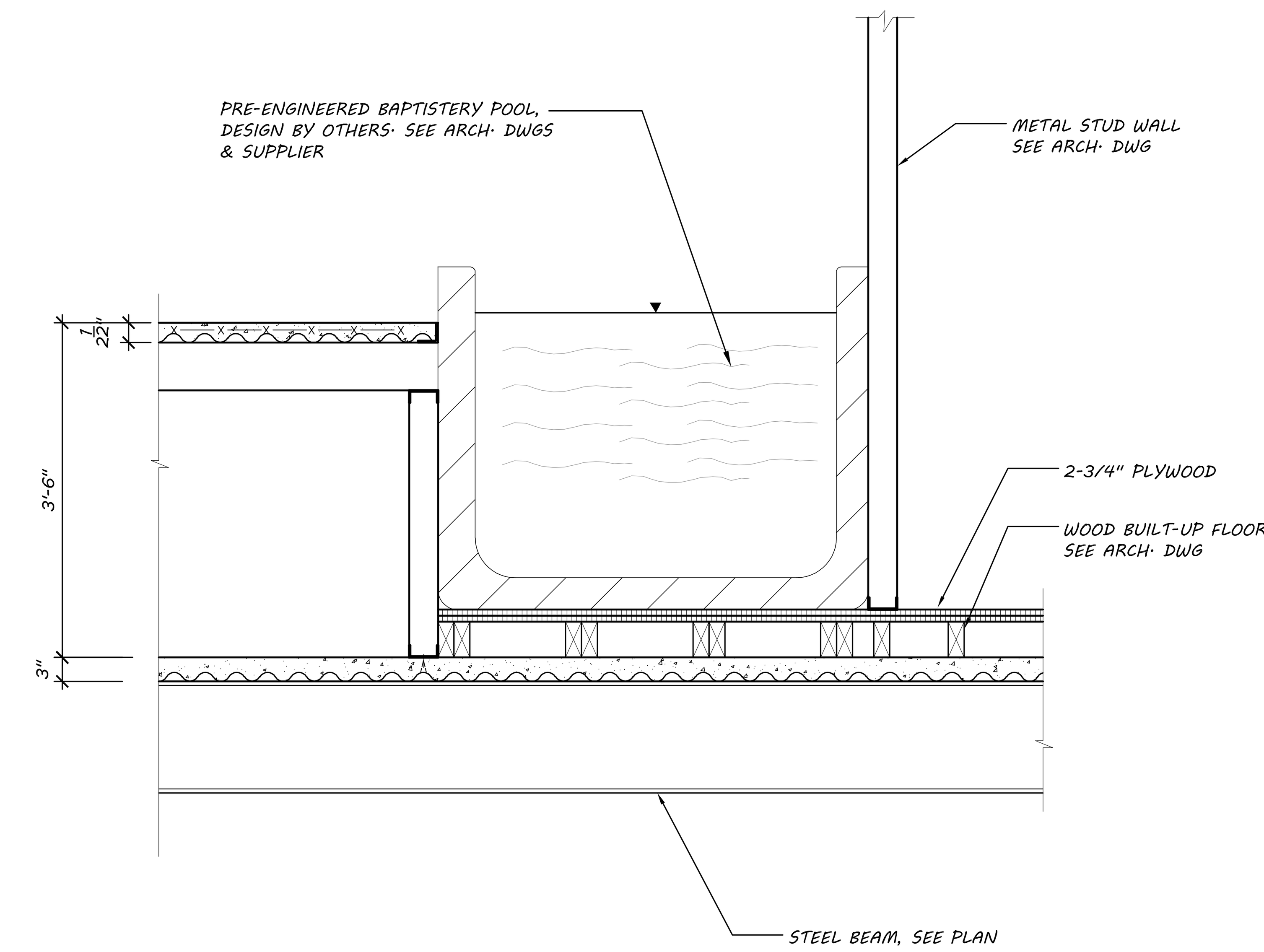


PULPIT STAGE FRAMING PLAN 4 S-011
SCALE: 1/4"=1'-0"



SECTION 5 S-011
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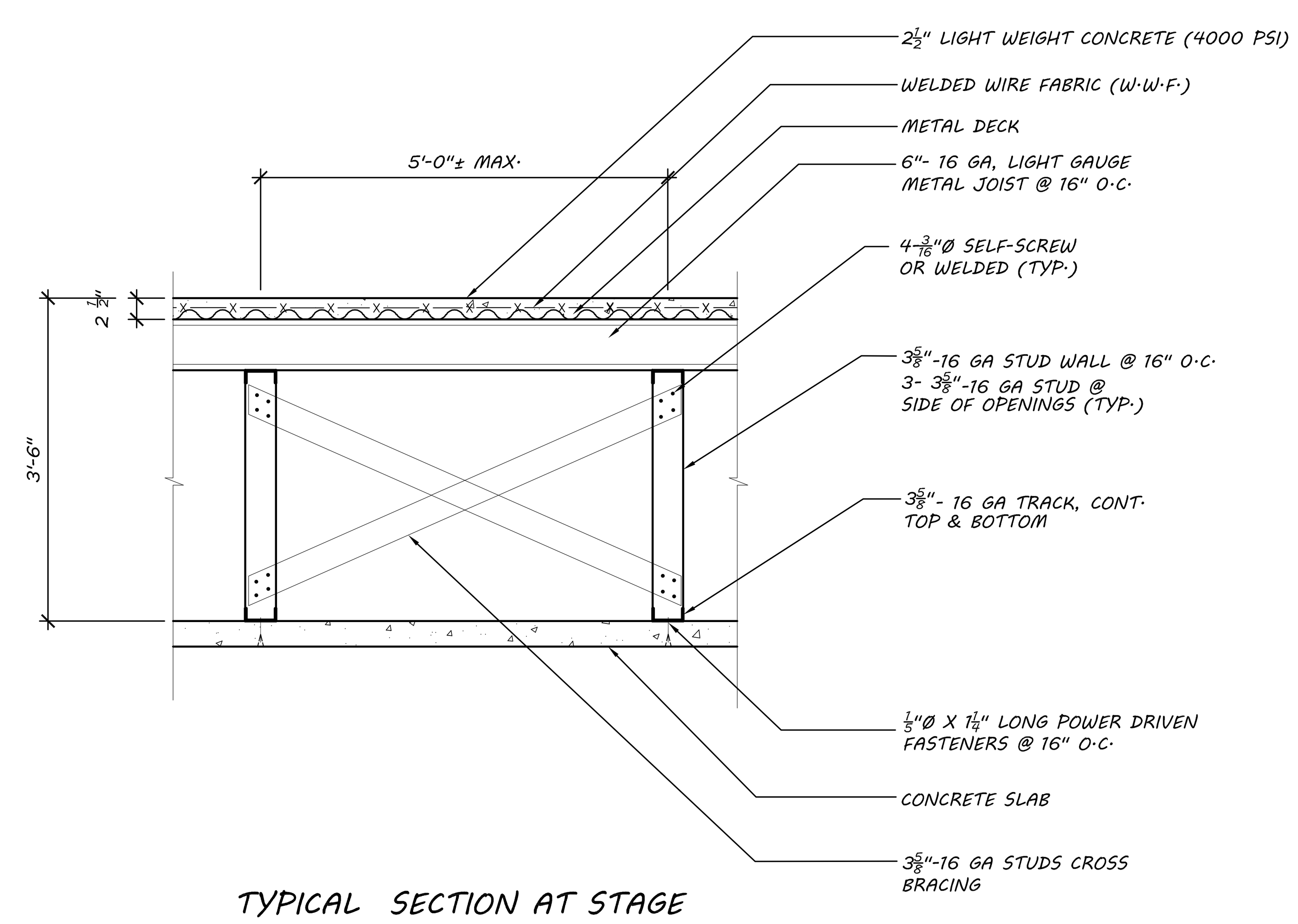

TYPICAL SECTION 6 S-011
SCALE: 3/4"=1'-0"

1/4"=1'-0" 4' 2' 0 4' 8'

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALE

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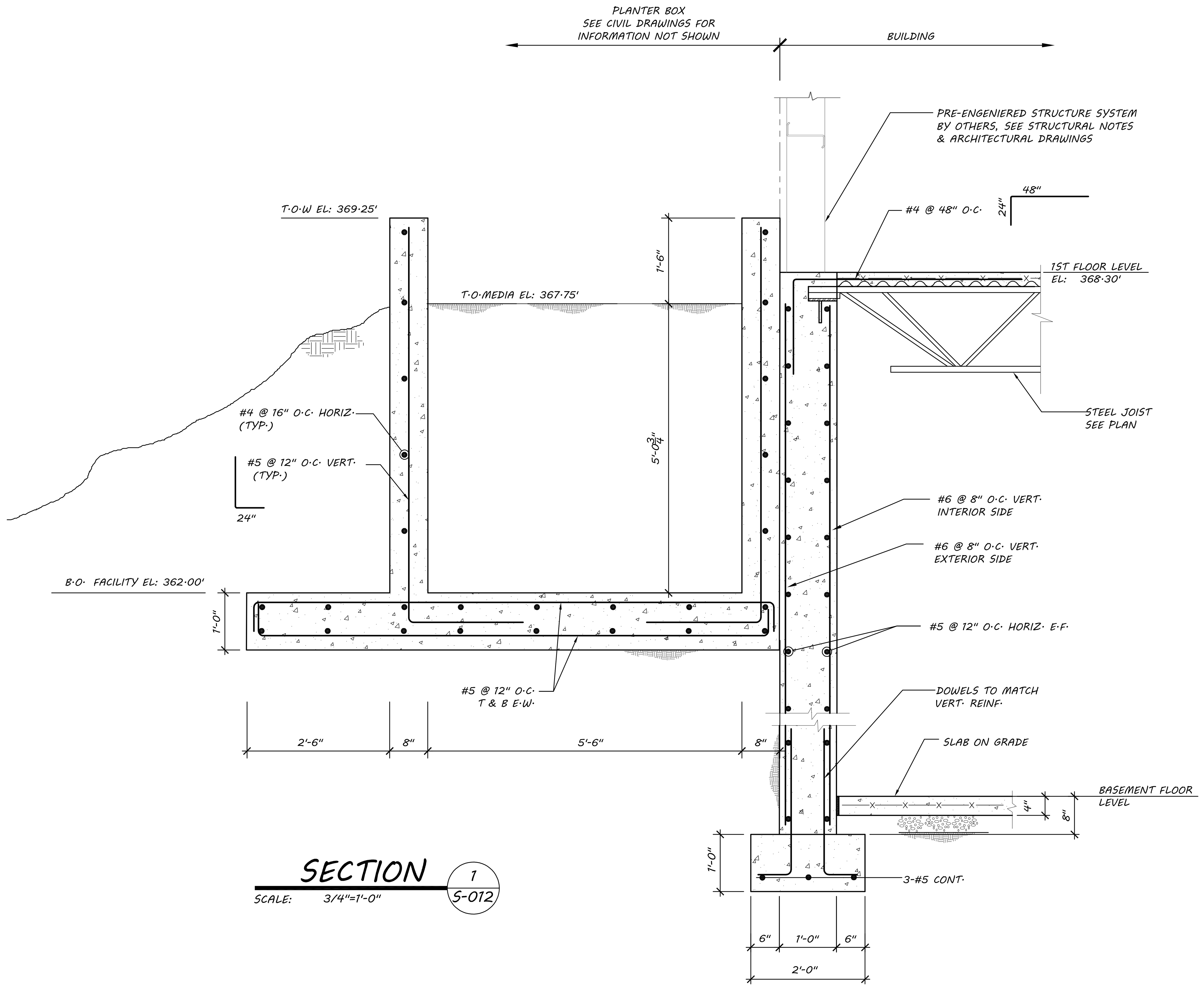

SECTION 1 S-012
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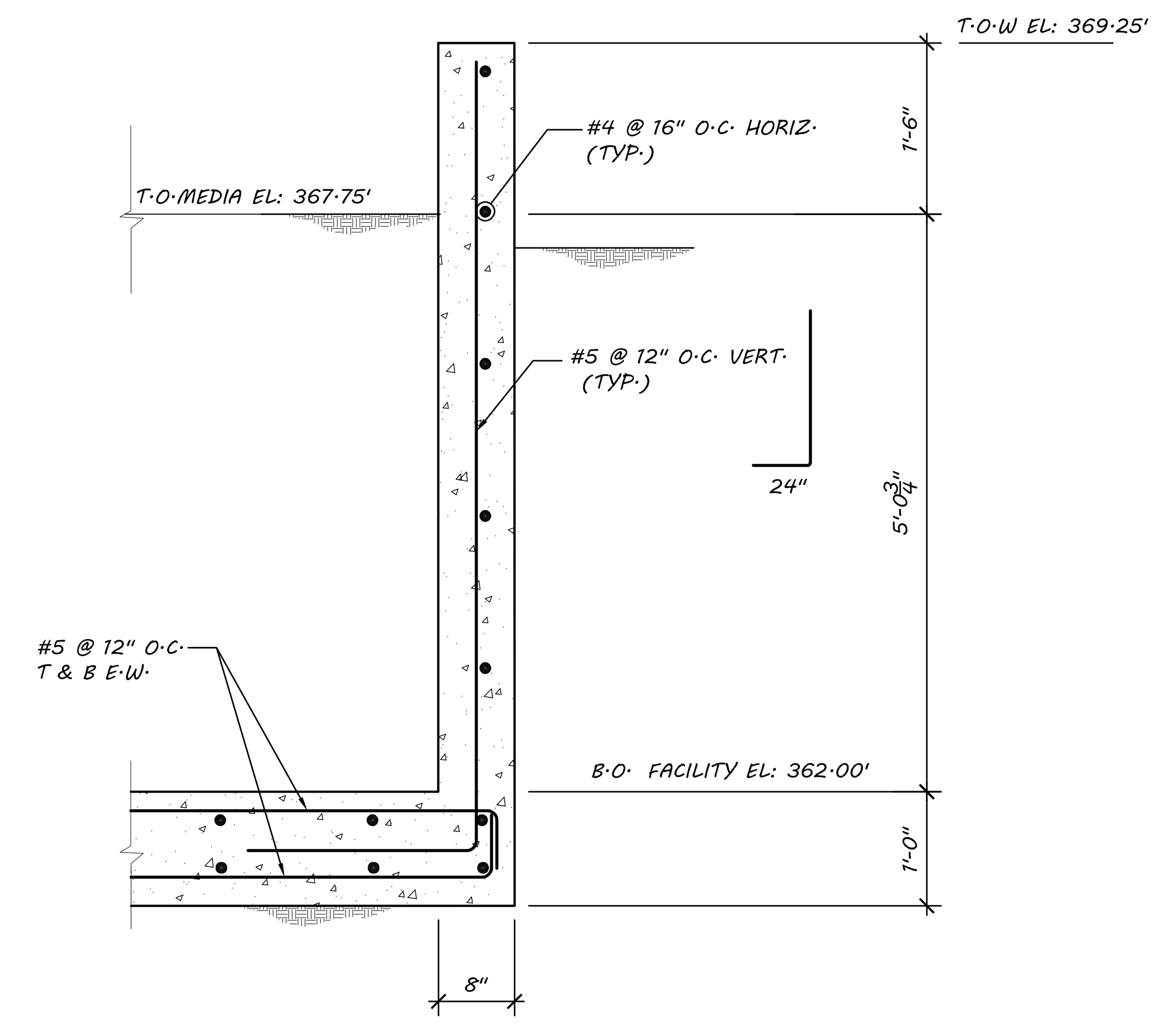

SECTION 2 S-012
SCALE: 3/4"=1'-0"

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GRAPHIC SCALE

Revisions:	Date:
Updated for planter box	10/25/2023

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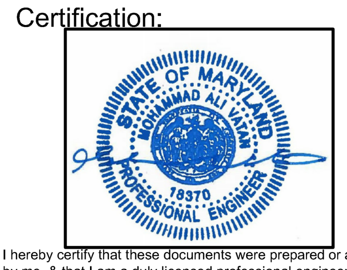

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of

MECHANICAL NOTES AND SPECIFICATIONS

1. PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEMS FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THESE PLANS AND ALL DRAWINGS RELATING TO THE AREA OF WORK, AND REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION OF BIDS. BY SUBMITTING A BID ON THIS PROJECT, THE CONTRACTOR ACCEPTS THESE DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK. CLAIMS FOR ADDITIONAL COSTS TO ACHIEVE THE INTENDED SCOPE OF WORK WILL NOT BE ACCEPTED.
2. ALL WORK SHOWN ON THESE DOCUMENTS IS NEW UNLESS SPECIFICALLY IDENTIFIED AS EXISTING OR PROVIDED BY OTHERS.
3. INSTALL ALL WORK ON THIS PROJECT IN ACCORDANCE WITH MECHANICAL CODE WITH ALL LOCAL REQUIREMENTS AND AMENDMENTS.
4. OBTAIN AND PAY FOR ALL PERMITS ASSOCIATED WITH THIS PROJECT AND ARRANGE ALL REQUIRED INSPECTIONS BY THE APPROPRIATE LOCAL AUTHORITIES.
5. THE CONTRACTOR MUST NOTIFY THE BUILDING OWNER IMMEDIATELY OF ANY DAMAGE OR THE DISCOVERY OF ANY EXISTING DAMAGE. THE PROTECTION OF ALL DRAINS IS REQUIRED TO PREVENT CLOGGING AND THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANING OF ALL DRAINS WHICH HAVE BECOME CLOGGED DURING CONSTRUCTION.
6. HVAC UNITS WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED TO PREVENT DUST, DEBRIS OR ODORS FROM ENTERING. SEAL ALL DUCT AND EQUIPMENT OPENINGS WITH PLASTIC. PROVIDE NEW FILTERS FOR ALL HVAC EQUIPMENT PRIOR TO COMPLETION OF PROJECT.
7. THOROUGHLY CLEAN THE WORK AREA DAILY OR AS DIRECTED BY THE GENERAL CONTRACTOR OR OWNER. REMOVE ALL TRASH AND DEBRIS FROM THE PROJECT REMOVED FROM THE WORK AREA WHICH IS NOT REUSED BY THE OWNER UNLESS DIRECTED OTHERWISE BY THE OWNER'S REPRESENTATIVE.
8. A PRELIMINARY INSPECTION OF THE HVAC WORK IN PROGRESS SHALL BE SCHEDULED THROUGH THE BUILDING OWNER PRIOR TO THE INSTALLATION OR RE-INSTALLATION OF THE CEILING GRID.
9. SYMBOLS SHOWN ON SCHEDULES INDICATE THE TYPE OF EQUIPMENT ONLY. REVIEW DRAWINGS TO DETERMINE THE EXACT QUANTITIES REQUIRED FOR EACH EQUIPMENT TYPE.
10. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO DEPICT THE GENERAL LOCATION OF HVAC SYSTEM COMPONENTS. DO NOT SCALE MECHANICAL DRAWINGS. CONSULT ARCHITECTURAL PLANS FOR PROPER DIMENSIONS AND LOCATION OF EQUIPMENT.
11. PROVIDE ALL SUPPORT STEEL, HANGERS, VIBRATION ISOLATION AND ACCESSORIES REQUIRED TO INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DO NOT SUPPORT CEILINGS, LIGHTING FIXTURES, OR ANY OTHER DEVICES FROM DUCTWORK OR PIPING. UNLESS OTHERWISE NOTED, DO NOT ALLOW DUCTS, PIPES, OR CONDUITS TO DIRECTLY CONTACT THE BUILDING STRUCTURE.
12. CONNECT ALL MECHANICAL EQUIPMENT TO DUCTWORK USING RUBBERIZED-CANVAS FLEXIBLE CONNECTIONS. INSTALL ALL MECHANICAL EQUIPMENT WITH VIBRATION ISOLATION DEVICES.
13. ANY EQUIPMENT WHICH WILL REQUIRE PERIODIC INSPECTION OR SERVICE, IF LOCATED ABOVE OR BEHIND INACCESSIBLE CONSTRUCTION, SHALL BE PROVIDED WITH AN ACCESS DOOR OF SUFFICIENT SIZE TO PERMIT THE REQUIRED SERVICE. COORDINATE ACCESS PANEL LOCATIONS WITH ASSOCIATED EQUIPMENT LOCATIONS.
14. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND/OR RECOMMENDATIONS.
15. PROVIDE EQUIPMENT SUITABLE FOR THE INTENDED PURPOSE. ALL MANUFACTURERS SHALL HAVE HAD SIMILAR PRODUCTS IN SATISFACTORY SERVICE FOR A MINIMUM OF 3 YEARS.
16. UNOBSTRUCTED ACCESS IS REQUIRED ON ALL SIDES OF ELECTRIC EQUIPMENT. LOCATE ALL SUCH EQUIPMENT WITH ADEQUATE CLEARANCE FOR MAINTENANCE AND TO MEET THE NATIONAL ELECTRICAL CODE'S REQUIRED CLEARANCES.
17. PROVIDE ALL NEW EQUIPMENT/MATERIALS WITH A WARRANTY FOR A MINIMUM OF ONE YEAR FROM THE DATE OF LANDLORD/OWNER ACCEPTANCE.

DUCTWORK:

18. FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL WITH G60 COATING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS AND THE PRESSURE CLASSES SPECIFIED BELOW:
    PRESSURE CLASS ("W.G.") /SEAL CLASS
    EXPOSED ROUND SPIRAL DUCT 2.0 / B
    DUCTWORK RESTROOM EXHAUST 2.0 / B
    CONSTANT VOLUME SYSTEM SUPPLY AIR DUCT 2.0 / B
    CONSTANT VOLUME RETURN AIR DUCT 2.0 / B
19. SEAL AND/OR REPAIR ANY DUCTWORK WITH VISUAL OR AUDIBLE SIGNS OF AIR LEAKAGE.
20. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
21. USE THERMAFLEX G-KM (U.L. 181 CLASS 1) FACTORY-INSULATED TWO PLY BONDED ALUMINUM FLEXIBLE DUCTWORK. THE INSULATION SHALL INCLUDE A VAPOR BARRIER JACKET. LIMIT FLEXIBLE DUCT TO A MAXIMUM LENGTH OF 14 FEET.
    a. SIZE FLEXIBLE DUCTWORK TO MATCH THE NECK SIZE OF THE DEVICE IT SUPPLIES UNLESS OTHERWISE SCHEDULED.
    b. USE RIGID SPIRAL DUCT TO MAINTAIN FLEXIBLE DUCT LENGTHS UNDER 14 FEET (ROUND DUCT SIZE SHALL MATCH FLEXIBLE DUCT SIZE).
    c. CONNECT FLEXIBLE, OR RIGID ROUND DUCTWORK, TO THE LOW PRESSURE DUCT USING SPIN-IN COLLARS OR "AIR-TITE" ADHESIVE BACKED FITTINGS SECURED TO THE MAIN DUCT WITH SHEET METAL SCREWS. AT CONNECTIONS TO AIR DEVICES OR RIGID DUCT WORK, MECHANICALLY FASTEN AND SEAL SEASON. FLEXIBLE DUCT AIRTIGHT.
    d. SEAL INSULATION JACKET USING INSULATION TAPE OR CEMENT TO MAINTAIN THE VAPOR BARRIER.
    e. DO NOT ROUTE FLEXIBLE DUCT THROUGH SLAB TO SLAB PARTITIONS. PROVIDE ROUND RIGID DUCT WHERE FLEXIBLE DUCTS ARE SHOWN TO PASS THAN 16 GAGE. THROUGH SLAB TO SLAB PARTITIONS.
    f. PROVIDE TRANSITIONS AND ACCESSORIES TO CONNECT FLEXIBLE DUCT TO RIGID DUCT.
22. INSTALL DUCTWORK TIGHT TO THE UNDERSIDE OF THE BUILDING STRUCTURE. ADJUST THE DUCT ELEVATION TO MAINTAIN DUCT TIGHT TO BOTTOM OF STRUCTURE WHERE STRUCTURE ELEVATIONS CHANGE.
23. PROVIDE ALL NECESSARY TRANSITIONS IN DUCTWORK FOR CONNECTION TO EQUIPMENT AND ACCESSORIES. REDUCE DUCTWORK SIZES ONLY AT THE CONNECTION POINT TO EQUIPMENT.
24. SUSPEND DUCTWORK FROM THE BUILDING STRUCTURE IN ACCORDANCE WITH THE SMACNA DUCT CONSTRUCTION STANDARDS. SECURELY ATTACH DUCTWORK SUPPORTS TO THE BUILDING STRUCTURE.
25. COORDINATE THE INSTALLATION OF THE DUCTWORK SYSTEM WITH THE BUILDING STRUCTURE AND THE WORK OF ALL OTHER CONTRACTORS. ADJUST DUCTWORK SIZES, LOCATION AND CONFIGURATION, INCLUDING DIFFUSER PLENUMS, AS REQUIRED TO COORDINATE WITH WORK OF THIS AND ALL OTHER TRADES. WHERE NECESSARY TO AVOID OBSTRUCTIONS, RE-SIZE, OFFSET, RAISE, OR LOWER THE DUCTWORK. DO NOT EXCEED THE DESIGN VELOCITIES IN ANY DUCT SECTIONS REQUIRING SIZING REVISIONS. INDICATE ALL COORDINATION ISSUES ON THE SHOP DRAWINGS.
26. PROVIDE TURNING VANES IN ALL 90° RECTANGULAR ELBOWS AND SPLITTER VANES IN ALL 90° RECTANGULAR RADIUS ELBOWS.
27. ELBOWS CONSTRUCTED USNG A SHARP 90° ANGLE ON THE INSIDE OF THE ELBOW AND RADIUS BEND ON THE OUTSIDE OF THE ELBOW (HARD RADIUS HEEL OR "SLED-BOOT" FITTING) WILL NOT BE ACCEPTED.
28. INSTALL VOLUME DAMPERS IN ALL BRANCH DUCTWORK CONNECTIONS AT TAKE-OFF FROM MAIN TRUNK DUCT LEADING TO DIFFUSERS. INTAKE SOURCE.
29. PROVIDE THE AIR DISTRIBUTION DEVICES WITH APPROPRIATE FRAMES FOR INSTALLATION IN THE SELECTED CEILING CONSTRUCTION. COORDINATE COLOR SELECTION WITH THE ARCHITECT AND MAINTAIN A NC LEVEL OF 25 OR LESS IN ALL AIR DISTRIBUTION DEVICE SELECTIONS.

INSULATION:

30. INSULATE ALL CONCEALED SUPPLY AND RETURN AIR DUCTS WITH MINIMUM R-6 INSULATION WITH INTEGRAL VAPOR BARRIER WRAP.
31. INSULATE EXPOSED SPIRAL DUCT WITH 1" INTERNAL SOUND LINING.
32. INSTALL ALL INSULATION IN ACCORDANCE WITH ASTM E84. PROVIDE INSULATION WITH A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DEVELOPED RATING OF LESS THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
33. MAINTAIN VAPOR BARRIER ON ALL INSULATION APPLIED TO ALL EQUIPMENT, PIPING, OR DUCTWORK WHICH CONVEYS LIQUID OR AIR AT A TEMPERATURE OF LESS THAN 70 DEGREES F.
34. INSULATE ALL REFRIGERANT PIPING WITH 0.75" THICK CLOSED-CELL ELASTOMERIC PIPE INSULATION.
35. INCLUDE THE SERVICES OF A CERTIFIED INDEPENDENT BALANCING CONTRACTOR IN THE SCOPE OF THIS CONTRACT TO PERFORM ALL SYSTEM BALANCING PROCEDURES IN ACCORDANCE WITH NEBB AND AABC REQUIREMENTS.
36. PROVIDE ALL NECESSARY ACCESSORIES FOR DUCTWORK TO ALLOW PROPER AIR BALANCING. BALANCE AIR SYSTEMS TO QUANTITIES INDICATED ON THE PLANS UNDER THE SUPERVISION OF A REGISTERED ENGINEER. SUBMIT BALANCING REPORTS ON NEBB OR AABC FORMS APPROVED AND STAMPED BY THE REGISTERED ENGINEER WHO SUPERVISED THE TESTING.
37. PERFORM A PRELIMINARY AIR SYSTEM BALANCE ON ALL DEVICES IN AREAS WHERE FINAL CLOSE-IN WOULD MAKE BALANCING MECHANISMS INACCESSIBLE. PRELIMINARY AIR BALANCING IS REQUIRED TO PREVENT THE GENERATION OF OBJECTIONABLE NOISE AT THE AIR DEVICES. SCHEDULE THE WORK SUCH THAT THE FAN SYSTEMS ARE FULLY OPERATIONAL FOR THE PRELIMINARY AIR BALANCE PRIOR TO APPLICATION OF THE FINAL FINISHES. PERFORM THE FINAL BALANCING AT THE AIR DEVICE WITH AN INTEGRAL OPPOSED BLADE DAMPER OR OTHER APPROVED BALANCING MECHANISM. ELIMINATE ANY OBJECTIONABLE NOISE CREATED BY THE BALANCING MECHANISM.
38. PERFORM A FINAL SYSTEM BALANCE ONLY WHEN THE SYSTEM IS COMPLETE AND CAPABLE OF OPERATING IN ACCORDANCE WITH THE DESIGN CONTROL SEQUENCES. COORDINATE THE SCHEDULE FOR THE SYSTEM BALANCE WITH ALL APPROPRIATE TRADES TO IDENTIFY AND CORRECT ANY DEFICIENCIES WHICH COULD RESULT IN AN INCOMPLETE BALANCE REPORT. INCOMPLETE BALANCE REPORTS WILL NOT BE ACCEPTED FOR REVIEW. BALANCING WILL ONLY BE CONSIDERED TO BE COMPLETE UPON RECEIPT OF AN APPROVED BALANCE REPORT FROM THE ENGINEER.

CONTROLS:

39. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND DESIGN SERVICES REQUIRED TO PROVIDE A COMPLETE CONTROL SYSTEM. THIS WORK SHALL INCLUDE WORK REQUIRED BY ELECTRICAL CONTRACTOR AS WELL. PROVIDE INITIAL SETUP AND PROGRAMMING OF ALL CONTROLS.
40. MOTORIZED DAMPERS/FANS SHALL BE CLOSED/OFF DURING UNOCCUPIED HOURS.

COORDINATION

A. COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER SECTIONS IN AMPLE TIME FOR PROPER INSTALLATION AND CONNECTION, AND FOR THE PROVISION OF ALL OPENINGS REQUIRED IN FLOORS AND WALLS.
B. VERIFY AND BECOME THOROUGHLY FAMILIAR WITH THE BUILDING SYSTEMS IN ORDER TO PROVIDE FOR PROPER DUCTWORK AND CEILING INTERCONNECTIONS WHERE APPLICABLE.
C. VERIFY THE HEIGHT OF NEW DUCTWORK TO ASCERTAIN THAT IT DOES NOT CONFLICT WITH THE INSTALLATION OF LIGHT FIXTURES, CEILING SYSTEMS OR OTHER NEW TENANT CONSTRUCTION. PROMPTLY NOTIFY THE ARCHITECT, IN WRITING, OF ANY POTENTIAL CONFLICTS.
D. CAREFULLY CHECK THE DOCUMENTS OF OTHER SECTIONS TO ASCERTAIN THE REQUIREMENTS OF ANY MATERIALS OR EQUIPMENT BEING FURNISHED OR FURNISHED AND INSTALLED BY THAT SECTION AND PROVIDE THE PROPER INSTALLATION OR CONNECTIONS INCLUDING CONTROLS.
E. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF SUPPLY AND RETURN AIR DEVICES AND THERMOSTATS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EQUIPMENT FINISHES AND MATERIALS NOT SPECIFIED HEREIN.
F. PROVIDE REQUIRED SUPPORTS AND HANGERS FOR DUCTWORK, PIPING AND EQUIPMENT, SUCH THAT LOADING WILL NOT EXCEED ALLOWABLE LOADING OF STRUCTURE. SUBMITTAL OF A BID SHALL BE DEEMED A REPRESENTATION THAT THE CONTRACTOR SUBMITTING SUCH BID HAS ASCERTAINED ALLOWABLE LOADINGS AND HAS INCLUDED IN HIS ESTIMATES, THE COSTS ASSOCIATED IN FURNISHING REQUIRED SUPPORTS. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTS SHALL BE INDEPENDENT OF THE CEILING SUPPORT SYSTEM.
G. SCHEDULE ALL WORK CONNECTING WITH EXISTING SYSTEMS TO ENSURE A MINIMUM OF SERVICE INTERRUPTION. ALL INTERRUPTIONS OF SERVICES (POWER, WATER, HVAC, ETC.) AND ALL WORK IN OCCUPIED TENANT SPACES (E.G. PLUMBING OR ELECTRICAL WORK IN AN OCCUPIED TENANT'S SPACE BELOW A SPACE UNDER CONSTRUCTION) MUST BE SCHEDULED THROUGH THE BUILDING MANAGER.
H. FURNISH ACCESS DOORS TO THE GENERAL CONTRACTOR, FOR INSTALLATION BY THE APPROPRIATE TRADES, IN LOCATIONS WHERE ACCESS IS REQUIRED TO MECHANICAL AND PLUMBING EQUIPMENT WHICH WOULD BE OTHERWISE INACCESSIBLE. CARE SHOULD BE TAKEN IN LOCATING MECHANICAL AND PLUMBING SYSTEMS TO MINIMIZE THE NUMBER OF ACCESS DOORS REQUIRED. FINAL LOCATIONS OF ACCESS DOORS IN FINISHED AREAS SHALL BE APPROVED BY THE ARCHITECT. ACCESS DOORS SHALL BE AS SPECIFIED BY THE ARCHITECT. WHERE NO ARCHITECTURAL ACCESS DOOR SPECIFICATIONS EXISTS, THEN ACCESS DOORS SHALL BE AS FOLLOWS: DRYWALL PARTITIONS – INRYCO/MILCON STYLE DW ; DRYWALL CEILINGS – INRYCO/MILCON STYLE DW OR STYLE WB-PL DIRECTED BY ARCHITECT; PLASTER WALLS OR CEILINGS –INRYCO/MILCON STYLE WB-PL.

SUBMITTALS AND APPROVALS

A. APPROVALS FOR EQUIPMENT WILL NOT BE GIVEN UPON SUBMISSION OF MANUFACTURERS' NAMES. APPROVALS FOR EQUIPMENT WILL BE GIVEN ONLY AFTER RECEIPT OF COMPLETE AND SATISFACTORY SUBMITTALS. APPROVALS FOR EQUIPMENT WILL BE GRANTED IF SUCH EQUIPMENT CONFORMS TO THE PERFORMANCE REQUIREMENTS, SPACE CONDITIONS, WEIGHT REQUIREMENTS AND QUALITY REQUIREMENTS.
B. NOTIFY THE ARCHITECT, IN WRITING, WITHIN 5 DAYS OF AWARD OF CONTRACT, OF THE PROPOSED DELIVERY SCHEDULE, FOR ANY EQUIPMENT OR MATERIAL, WHICH WILL PREVENT THE INSTALLATION FROM BEING COMPLETED AT THE TIME OF THE SCHEDULED PROJECT COMPLETION.
C. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MATERIALS AND EQUIPMENT:
    C.1. FLEXIBLE DUCT
    C.2. AIR DEVICES
    C.3. TEMPERATURE CONTROLS
    C.4. TESTING AND BALANCING REPORTS
D. DUCTWORK, PIPING AND EQUIPMENT INSTALLED WITHOUT APPROVAL THEREOF SHALL BE DONE AT THE RISK OF THIS CONTRACTOR AND THE COST OF REMOVAL OF SUCH EQUIPMENT OR RELATED WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON SHALL BE AT THE EXPENSE OF THIS CONTRACTOR.

VIBRATION ISOLATORS

A. PROVIDE DOUBLE DEFLECTION NEOPRENE ISOLATION HANGERS FOR SUSPENDED FANS AND EQUIPMENT LESS THAN 100 LBS.
B. QUANTITY AND LOCATION OF ISOLATORS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
C. AFTER INSTALLATION AND START-UP, CONTRACTOR SHALL THOROUGHLY CHECK EACH ITEM OF EQUIPMENT FOR VIBRATION TRANSMISSION TO THE STRUCTURE OR EXCESSIVE NOISE, AND IF EITHER OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE FAULTY SITUATION IMMEDIATELY.

LEAKAGE

A. ALL DUCT JOINTS SHALL BE SEALED WITH HARDCAST 601.
B. CONTRACTOR SHALL INSPECT ALL DUCTWORK, FITTINGS, INSULATION AND VAPOR BARRIER FOR DEFECTS OR LEAKAGE AND SEAL, CAP, RE-INSULATE, AND TAPE OVER AS REQUIRED TO PROVIDE REASONABLY WELL SEALED DUCT SYSTEM WITH APPROPRIATE INSULATION AND VAPOR BARRIER.
C. ALL PRESSURIZED PIPING SHALL BE LEAK TESTED PRIOR TO ENCLOSURE OR COVER-UP. PIPING SHALL BE LEAK TESTED FOR 24 HOURS UNDER A HYDROSTATIC PRESSURE OF 150% OF THE SYSTEM DESIGN WORKING PRESSURE. CARE SHALL BE TAKEN TO PROTECT ANY EQUIPMENT WHICH MAY BE DAMAGED BY HYDROSTATIC TESTTING.
D. LEAKAGE TESTING FOR ALL DUCTWORK SHALL BE BY PHYSICAL SENSATION AND SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
E. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN MASONRY.

AIR DEVICES:

A. ALL AIR DEVICES SHALL BE SELECTED TO PROVIDE A NC OF 25 OR LESS AT INDICATED CFM AND SHALL INCLUDE BALANCING DAMPERS AND OTHER TYPICAL ACCESSORIES AS REQUIRED.
B. ALL CEILING AND WALL-MOUNTED AIR DEVICES SHALL BE PAINTED WHITE OR OFF WHITE, UNLESS SPECIFIED OTHERWISE, AND ALL AIR DEVICES SHALL BE THE SAME COLOR.

MECHANICAL SYMBOL LEGEND

TYPE/CFM
- SUPPLY AIR GRILLE

TYPE/CFM
- RETURN AIR GRILLE

TYPE/CFM
- EXHAUST AIR GRILLE
- TOILET EXHAUST FAN (TEF) OR EXHAUST FAN (EF)
- T • THERMOSTAT
- SD • SMOKE DETECTOR
- MANUAL DAMPER
- DUCT TAKE-OFF
- WALL CAP
- MECHANICAL EQUIPMENT WITH CLEARANCES, SEE SCHEDULES
- TRANSITION RECTANGULAR TO ROUND DUCT
- TURNINGVANE, 90 DEGREE ELBOW
- RADIUS ELBOW
- ##/## • SIZE OF RECTANGULAR DUCT WHERE FIRST NUMBER INDICATES WIDTH AND SECOND NUMBER INDICATES VERTICAL DIMENSION
- ##ø • DIAMETER OF ROUND DUCT
- —CD— • CONDENSATE PIPING
- S U • UNDER CUT DOOR,'S' DONATE SIZE
- POINT OF REMOVAL
- CONNECT TO EXISTING

NOTE: NOT ALL SYMBOLS ON THIS LIST MAY BE APPLICABLE TO THIS PROJECT.

MECHANICAL ABBREVIATIONS

AMPERE	A(AMP)
ABOVE FINISHED FLOOR	AFF.
ABOVE FINISHED GRADE	AFG.
ADDENDUM	ADD.
ADJUSTABLE	ADJ.
AIR CONDITIONING	A/C
AIR HANDLER UNIT	AHU
APPROXIMATE(LY)	APPROX.
ARCHITECT(URAL)	ARCH('L).
AUTOMATIC	AUTO
AUXILIARY	AUX.
BUILDING	BLDG.
BOTTOM OF DUCT	BOD
BOTTOM OF PIPE	BOP
BRITISH THERMAL UNIT	BTU.
CAPACITY	CAP
CARBON DIOXIDE	CO2
CENTER	CTR.
CIRCLE	CIR.
CONDENSATE DRAIN	CD.
CONDENSING UNIT	C.U.
CONSTRUCTION	CONST.
CONTINUATION	CONT.
COOLING	CLG.
CUBIC FOOT PER MINUTE	CFM
DAMPER	DMPR.
DEGREE FAHRENHEIT	DegF.
DEMOLISH(ITION)	DEMO.
DIAMETER	DIA.
DIRECT EXPANSION	DX.
DIVISION	DIV.
DOWN	DN.
DOUBLE	DBL.
DRAWING(S)	DWG(S).
DRY BULB	D.B.
DUCTLESS SPLIT	D.S.
EAST	E.
ENTERING AIR TEMPERATURE	EAT.
EFFICIENCY	EFF.
ELECTRIC(AL)	ELEC.
ELEVATION	EL.
ENERGY EFFICIENCY RATIO	EER.
ENGINEER	ENGR.
ENTERING	ENT
EQUAL	EQ.
EQUIPMENT	EQPT.
ETCETERA	ETC.
EXHAUST FAN	E.F.
EXISTING	EXIST.
EXPOSED	EXP.
EXHAUST	EXH.
EXHAUST AIR	EA.
EXTERNAL	EXT
EXTERNAL STATIC PRESSURE	ESP.
FARENHEIT	F.

FINISH(ED)	FIN.('D)
FINISH FLOOR	F.F.
FLEXIBLE	FLEX.
FLOOR	FL.
FOOT/FEET	FT.
GALLONS PER MINUTE	GPM
GALVANIZED	GALV.
GAS HEATER	G.H.
GAUGE	GA.
GENERAL CONTRACTOR	G.C.
GROUND	GND.
GYPSUM BOARD	GYP.
HEATER	HTR.
HORSEPOWER	H.P.
HEATING, VENTILATION & AIR CONDITIONING	HVAC
HOT WATER	H.W.
HOT WATER RETURN	H.W.R.
HERTZ	HZ.
INFORMATION	INFO.
INCHES	IN.
INSULATION	INSUL.
INTERIOR	INT.
KILOWATT	KW
LEAVING AIR TEMPERATURE	LAT.
LEAVING	LVG.
LOUVER	L.
LONG RADIUS ELBOW	LRE.
MANUFACTURE(R)	MFR.
MAKEUP AIR	MA.
MAXIMUM	MAX.
1,000 BTU/HR	MBH.
MAXIMUM OVERCURRENT PROTECTION	MOCP
MECHANICAL	MECH.
METAL	MTL.
MINIMUM	MIN.
MIXED AIR TEMPERATURE	MAT.
MISCELLANEOUS	MISC.
MOTORIZED VOLUME DAMPER	MVD
MULTIPLE	MULT.
MANUAL VOLUME DAMPER	VD.
NOT APPLICABLE	N/A
NOISE CRITERIA	NC.
NATURAL	NAT.
NOMINAL	NOM.
NORTH	N.
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	N.T.S.
NUMBER	NO./#

OUTSIDE AIR	OA
PARTIAL	PART.
PHASE	PH
POLYVINYL CHLORIDE	PVC
POUND(S)	LBS
POUNDS PER SQUARE INCH	PSI
PRESSURE DROP	PD.
QUANTITY	QTY.
RADIUS	R.
REFRIGERATION	REFRIG.
RECESSED	REC.
REINFORCE(ING)(ED)(MENT)	REINF.
RETURN AIR	R.A.
RELOCATED	RE.
ROOF TOP UNIT	RTU
ROOM	RM.
SANITARY SEWER	S.S.
SCHEDULE	SCH.
SEASONAL ENERGY EFFICIENCY RATIO	SEER
SECTION	SECT.
SENSIBLE	SENS.
SMOKE DETECTOR	S.D.
SOUTH	S.
SPECIFICATION(S)	SPEC.('S)
SQUARE	SQ.
SQUARE FEET	SF
STAINLESS STEEL	SS.
SQUARE FEET	SF
STATIC PRESSURE	SP.
SUCTION	SUCT.
SUPPLY AIR	SA.
TEMPERATURE	TEMP.
TOP OF STEEL	T.O.S.
TYPICAL	TYP.
UNDERGROUND	U.G.
UNDERWRITER LABORATORIES INC.	U.L.
UNIT HEATER	U.H.
UNLESS NOTED OTHERWISE	U.N.O.
UTILITY	UTIL.
MANUAL VOLUME DAMPER	VD
VOLTAGE	V.
VOLUME	VOL.
WATER GAUGE	WG.
WEIGHT	WT.
WEST	WEST
WET BULB	W.B.
WITH	W/
WITHOUT	W/O

DRAFTING SYMBOLS

PLAN/DETAIL DESIGNATION

1 PLAN NAME/DETAIL TITLE
SCALE:
SCALE
VIEW NUMBER

MECHANICAL MANUFACTURER EQUIVALENT

ROOFTOP UNIT	– DAIKIN – TRANE – CARRIER
DIFFUSER & GRILLE	– METAL-AIRE – TITUS – KRUEGER – SHOEMAKER

NOTES:
COORDINATE SPACE AND CLEARANCE REQUIREMENTS WITH SCHEDULED UNIT BEFORE PURCHASING APPROVED SUBSTITUTION UNIT.

MARYLAND CODES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE MARYLAND STATE CODES (AS STATED BELOW) OR ALL THE APPLICABLE CODES IN FORCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

- 2018 MARYLAND BUILDING CODE.
- 2018 MARYLAND ENERGY CONSERVATION CODE.
- 2018 MARYLAND PLUMBING CODE.
- 2012 MARYLAND PROPERTY MAINTENANCE CODE.
- 2017 NATIONAL ELECTRICAL CODE NFPA70.
- 2012 MARYLAND GREEN CONSTRUCTION CODE.
- 2018 MARYLAND MECHANICAL CODE.
- 2015 MARYLAND EXISTING BUILDING CODE.
- 2012 MARYLAND ACCESSIBLY CODE.
- 2010 ADA STANDARD.

SHEET INDEX:

FLEXIBLE DUCT SCHEDULE

AIRFLOW (CFM)	NECK SIZE (IN.)
0 TO 100	6
101 TO 200	8
201 TO 275	10
276 TO 375	12
376 TO 475	14
476 TO 600	16

AIR DISTRIBUTION DEVICE SCHEDULE

MARK.	SERVICE	TYPE	NECK	MAX. NC	MAKE/MODEL
A –	SUPPLY	PERFORATED FACE CEILING DIFFUSER-ALUMINUM FLUSH FACE	SEE PLAN	24X24	TITUS MODEL TMS
B –	SUPPLY	LONG THROW, HIGH CAPACITY GRILLE WITH ROTATING DRUM	SEE PLAN	24X8	TITUS MODEL DL
C –	SUPPLY	ROUND DIFFUSER WITH TOW DISCHARGE PATTERNS	SEE PLAN	–	TITUS MODEL TMR
D –	RETURN	RETURN AIR GRILLE – ALUMINUM	SEE PLAN	24X24	TITUS MODEL PAR
E –	RETURN	SIDE WALL RETURN GRILLE	SEE PLAN	36X34	TITUS MODEL 350FL

(N) = NEW
(R) = REMOVE
(E) = EXISTING
(ER)= EXISTING RELOCATE
(RR)= REMOVE AND RELOCATE

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
Sam: 571-220-3239
DAENG2000@GMAIL.COM
www.daeng2000.com

Date:

Revisions:

PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE# 47084 EXPIRATION DATE 08/06/2025

Project Title:
Iglesic Vida Nueva Unida International
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904
MECHANICAL COVER SHEET

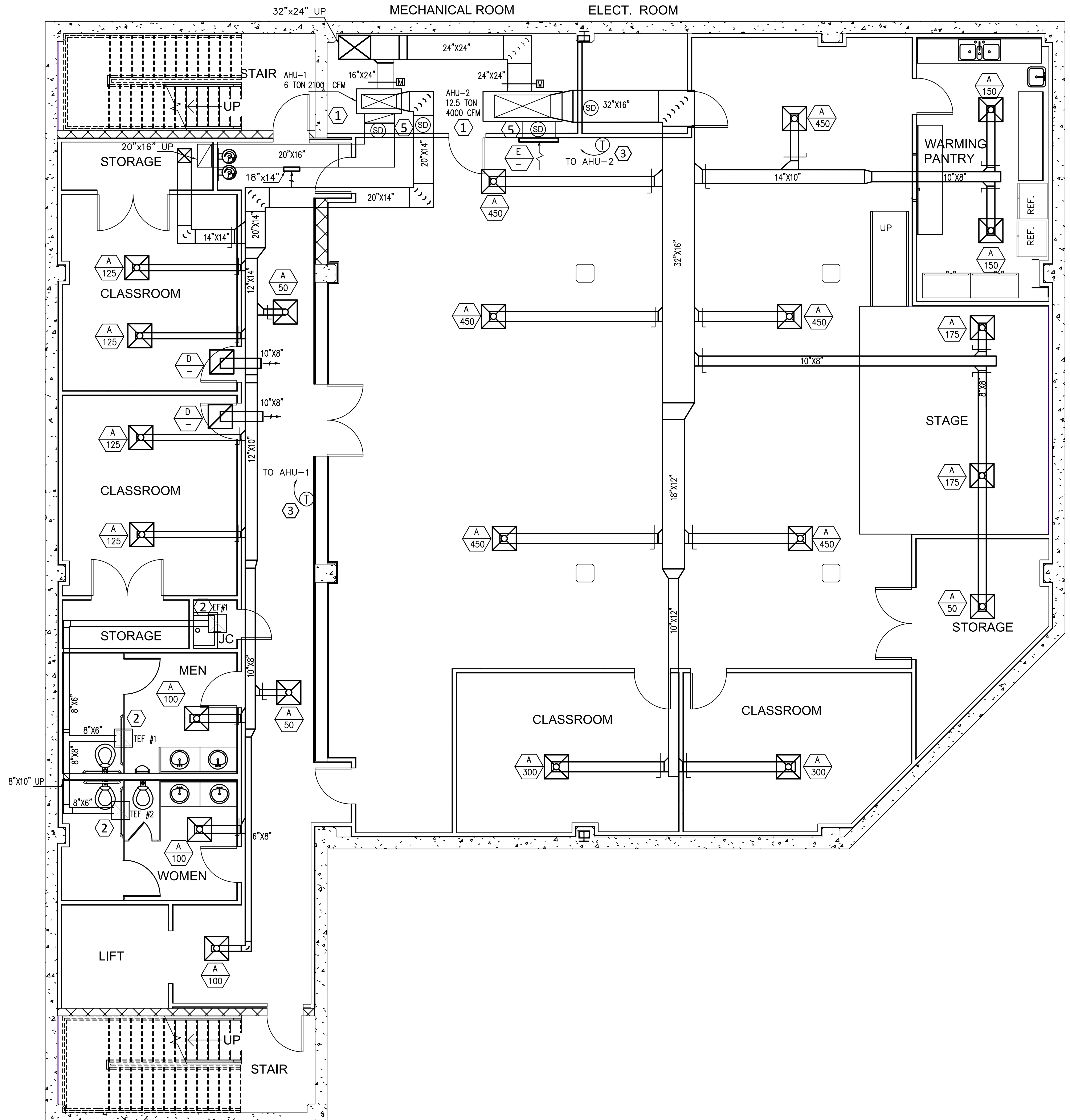
German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021
Scale:
Drawn:
Checked:
File No.
Drawing No.

M100



1 MECHANICAL BASEMENT FLOOR PLAN
SCALE: 3/16"=1'-0"

MECHANICAL GENERAL SHEET NOTES:

A. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY TO COMPLETE THE WORK.

B. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.

C. PRIOR TO START MECHANICAL WORK AND ANY DUCT FABRICATION, CONTRACTOR SHALL COORDINATE WITH OWNER/ARCHITECT FOR CEILING HEIGHT AND MAKE SURE HAVE ENOUGH SPACE TO RUN THE DUCTS ABOVE THE CEILING.

- MECHANICAL KEYED NOTES:

1. PROVIDE AND INSTALL NEW AHU—1,2 AT THIS LOCATION. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE AND INSTALL EXHAUST FAN AT THIS LOCATION. REFER TO SCHEDULE AND DETAILS. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE AND INSTALL NEW THERMOSTAT WITH CLEAR LOCKABALE COVER TO CONTROL AHU 1,2 AT THIS LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCH.

Date:

Revisions:

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German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
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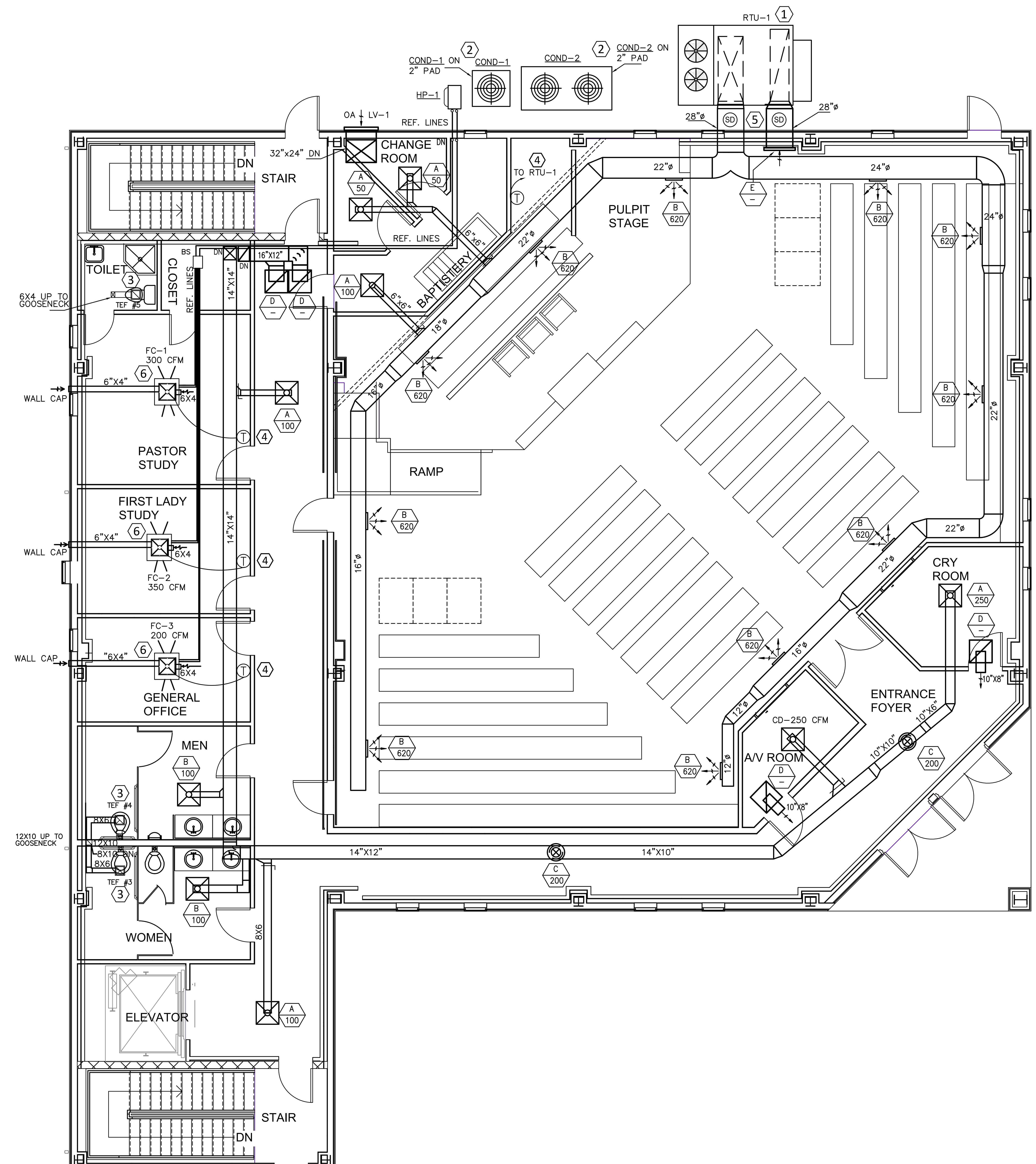
Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
Sam: 571-220-3239
DAENG2000@GMAIL.COM
www.daeng2000.com



1 MECHANICAL FIRST FLOOR PLAN
SCALE: 3/16"=1'-0"

MECHANICAL GENERAL SHEET NOTES:

A. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY TO COMPLETE THE WORK.

B. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.

C. PRIOR TO START MECHANICAL WORK AND ANY DUCT FABRICATION, CONTRACTOR SHALL COORDINATE WITH OWNER/ARCHITECT FOR CEILING HEIGHT AND MAKE SURE HAVE ENOUGH SPACE TO RUN THE DUCTS ABOVE THE CEILING.

- MECHANICAL KEYED NOTES:

1. PROVIDE AND INSTALL NEW ROOF TOP UNIT AT THIS LOCATION. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE NEW CONDENSING UNIT AT THIS LOCATION. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION.
3. PROVIDE AND INSTALL EXHAUST FAN AT THIS LOCATION. REFER TO SCHEDULE AND DETAILS. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE AND INSTALL NEW THERMOSTAT TO CONTROL AHU 1,2 AT THIS LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCH.
5. PROVIDE AND INSTALL SMOKE DETECTORS.
6. PROVIDE AND INSTALL NEW CASSETTE UNIT. REFER TO EQUIPMENT SCHEDULE FOR MORE INFORMATION. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.

Date:

Revisions:

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12450 OLD COLUMBIA PIKE
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MECHANICAL FIRST FLOOR PLAN

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TRI ZONE MINI SPLIT SYSTEMS

TAG	MODEL	SUPPLY FAN		OUTDOOR AIR	FILTERS		DX COOLING				HOT GAS REHEAT (HGRH) / HP HEATING (HTG)					ELECTRIC HEAT (208/230)				ELECTRICAL (208/230)					NOTES
		DESIGN AIRFLOW	ESP	CFM	EFF	TYPE	TOTAL CAP	SENS CAP	EAT DB/WB	LAT DB/WB	TYPE	TOTAL CAP	EAT	LAT	CAP	TYPE	CAP	EAT	LAT	V	PH	HZ	MCA	MOP	
		MAX/MIN (CFM)	IN WG		MERV		MBH	MBH	DEG F	DEG F		MBH	DEG F	DEG F	MBH		KW	DEG F	DEG F				A	A	
FC-1	SLZ-KF09NA-NG	335/207	-	30	-	-	9	17.95	11.88	80/67	HEATING	11	70	110.2	19.93	-	-	-	-	208	1	60	0.25	-	1,2,3,4,5
FC-2	SLZ-KF09NA-NG	335/207	-	20	-	-	9	17.95	11.88	80/67	HEATING	11	70	110.2	19.93	-	-	-	-	208	1	60	0.25	-	1,2,3,4,5
FC-3	SLZ-KF09NA-NG	335/207	-	20	-	-	9	17.95	11.88	80/67	HEATING	11	70	110.2	19.93	-	-	-	-	208	1	60	0.25	-	1,2,3,4,5

NOTES

1. BASIS OF DESIGN IS TRANE; PREAPPROVED ALTERNATES BY DESERTAIRE, MITSUBISHI, DAIKIN, LG & SEMCO MEETING ALL REQUIREMENTS WILL BE CONSIDERED FOR SUBSTITUTION
2. PROVIDE SINGLE POINT POWER
3. PROVIDE FACTORY STARTUP & 1 YEAR WARRANTY LABOR
4. PROVIDE WIRED WALL CONTROLLER
5. PROVIDE WATER LEVEL DETECTION DEVICE (UL 508) THAT WILL SHUT OFF EQUIPMENT IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN. LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

SPLIT SYSTEM OUTDOOR CONDENSING UNIT

TAG	MODEL	COOLING CAP @ 95	REFR TYPE	COMPRESSOR	ELECTRICAL						NOTES
		MBH		NO.	TYPE	V	PH	HZ	MCA	MOP	
HP-1	MXZ-3C30NA3	30	R410A	1	SCROLL	208	1	60	23	35	1,2,3,4,5,6,7,8

NOTES

1 BASIS OF DESIGN IS TRANE; PREAPPROVED ALTERNATES BY DESERTAIRE, MITSUBISHI, DAIKIN, LG & SEMCO MEETING ALL REQUIREMENTS WILL BE CONSIDERED FOR SUBSTITUTION
2 PROVIDE FACTORY STARTUP & 1 YEAR WARRANTY LABOR
3 REFRIGERATION PIPE SIZES SHALL BE CONFIRMED BY MANUFACTURER
4 PROVIDE LOW AMBIENT COOLING TO 0 DEG F
5 PROVIDE 5 YEAR COMPRESSOR PARTS ONLY EXTENDED WARRANTY
6 HP-1 IS MATCHED WITH FC-1,2,3; 19 SEER
7 HEATING CAPACITIES PROVIDED AT 43 DEG F WB
8 PROVIDE VARIABLE SPEED SCROLL COMPRESSOR & (1) CENTRAL CONTROLLER FOR ALL INDOOR AND OUTDOOR UNITS

EXHAUST FAN SCHEDULE

UNIT	SERVICE	CFM	SP (IWC)	TYPE	FRPM	VOLTAGE	PHASE	HZ	HP (WATTS)	REMARKS
TEF-1 TO 5	RESTROOM	140	0.020	CEILING	1400	115	1	60	(47)	GREENHECK SP-A190
EF-1	JANITORIAL CLOSET	60	0.200	CEILING	900	115	1	60	(54)	GREENHECK SP-B80

NOTES:

1. FAN SHALL BE OPERATED FROM LIGHT SWITCH OF THE ROOM OF SERVICE.
4. PROVIDE FAN WITH SPEED CONTROLLER MOUNTED ON FAN HOUSING & GRAVITY BACK-DRAFT DAMPER.

SEQUENCE OF OPERATION

A. PROVIDE STAND ALONE OR APPLICATION SPECIFIC CONTROLLERS AS REQUIRED TO PERFORM THE FOLLOWING SEQUENCE OF OPERATIONS.

B. AIR HANDLER UNITS (AHU-1, AHU-2 & RTU-1)

1. UNIT SHALL CONSIST OF SUPPLY AIR FAN, FILTERS, DX COOLING COIL, GAS HEAT, AND A 7-DAY PROGRAMMABLE THERMOSTAT.
2. PROVIDE AN OVERRIDE SWITCH TO OPERATE THE UNIT DURING UNOCCUPIED HOURS. THE SWITCH SHALL BE PART OF THE PROGRAMMABLE THERMOSTAT. OVERRIDE SWITCH ALLOWS THE UNIT TO OPERATE FOR TWO HOURS (ADJUSTABLE).
3. OCCUPIED MODE: BASED ON THE SYSTEMS HOURS OF OCCUPANCY, START THE UNITS AT THE BEGINNING OF OCCUPANCY AND SHUT DOWN THE UNITS AT THE END OF OCCUPANCY (NOTE: OUTSIDE AIR DAMPER WITHIN THE UNIT SHALL OPEN AND THEN THE UNIT SHALL START). THE UNIT SHALL START EARLIER AS DETERMINED BY THE PROGRAM FOR EARLY WARM-UP OR COOL DOWN. ON A SYSTEM STARTUP, THE UNIT FAN SHALL START AND RUN CONTINUOUSLY AND THE INTERNAL FACTORY CONTROLS SHALL BE ENABLED. BASED ON THE SPACE TEMPERATURE SENSOR. THE UNIT SHALL CYCLE THE HEATING /COOLING TO MAINTAIN THE SPACE TEMPERATURE SET POINT.
4. UNOCCUPIED MODE: THE UNITS INTERNAL OA DAMPERS SHALL REMAINED CLOSED WHEN THE BUILDING IS NOT OCCUPIED. THE UNITS SHALL STOP HEATING/COOLING AND THE FAN SHALL STOP. IF THE SPACE TEMPERATURE FALLS BELOW 60 DEGREE F (ADJUSTABLE), THE UNIT SHALL START AND HEAT UNIT THE SPACE TEMPERATURE TO 64 DEGREE F (ADJUSTABLE) AND THEN SHUTDOWN. IF THE SPACE TEMPERATURE RISES ABOVE 85 DEGREE F (ADJUSTABLE), THE UNIT SHALL START AND COOL THE SPACE TEMPERATURE TO 80 DEGREE F (ADJUSTABLE) AND THEN SHUTDOWN.
5. UPON DETECTION OF SMOKE BY UNIT SMOKE DETECTOR ALL RTU'S SHALL SHUT DOWN AND AN ALARM SHALL BE SENT TO THE LOCAL REMOTE ANNUNCIATORS.

C. RESTROOM EXHAUST FAN (TEF-1, 2, 3, 4 & 5 AND EF-1)

1. EXHAUST FAN SHALL INTERLOCK WITH LIGHTING SWITCH OR OCCUPANCY SENSOR.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

SYSTEM	TONNAGE	SUPPLY AIR	OUTSIDE AIR	SENSIBLE COOLING (MBH) @ 95 AMB	EAT (F) (DB/WB)	LAT (F) (DB/WB)	TOTAL COOLING (MBH)	HEATING TYPE	HEATING CAPACITY MBH(OUTPUT)	REFRIGERANT TYPE	EER	BASIS OF DESIGN INDOOR UNIT	OUTDOOR UNIT
AHU-1 & COND-1	6.0 TON	2100 CFM	375 CFM	54.96	80/67.0	56.9/56.08	74.29	HEAT PUMP / ELECTRIC HEAT 25 KW	36.12	R-410A	12.7	TWE07243BAA**A1 208V/3PH/60HZ 73 MCA/80 MOCP.	TWA07243DAA**AS01 208V/3PH/60HZ 26 MCA/35 MOCP.
AHU-2 & COND-2	15.0 TON	4000 CFM	735 CFM	129.76	80/67.0	55.50/55.99	188.56	HEAT PUMP / ELECTRIC HEAT 30 KW	111.09	R-410A	11.9	TWE18043BAA**A1 208V/3PH/60HZ 96 MCA/100 MOCP.	TWA18043DAA**AS01 208V/3PH/60HZ 66.3 MCA/90 MOCP.

NOTES:

1. ALL COOLING CAPACITIES ARE BASED ON 80°F DB, 63°F WB INDOOR ENTERING AIR TEMP AND 95°F AMBIENT OUTDOOR ENTERING AIR TEMP, 45°F SUCTION TEMP.
2. PROVIDE SYSTEMS WITH PROGRAMMABLE THERMOSTATS. TEMPERATURE SET POINT HEATING AT 70°F AND COOLING AT 78°F. AUX. HEAT TEMP. MUST DISPLAY ON THE SCREEN. WHEN THE TEMPERATURE RANGE FALLS BELOW 35°F (ADJ.) THE AUXILIARY HEAT TURNS ON.
3. ESP IS EXCLUSIVE OF FILTERS, WET COIL, AND CASING LOSS.
4. HEATING AND COOLING VALVES ARE MINIMUM REQUIRED TO MEET DESIGN.
5. FURNISH UNIT WITH LOW AMBIENT CONTROLS.
6. AIR HANDLERS SHALL HAVE A MANUFACTURER'S DESIGNATION FOR AN AIR LEAKAGE OF NO MORE THAN 2 PERCENT OF THE DESIGN AIR FLOW RATE WHEN TESTED IN ACCORDANCE WITH ASHRAE 193. REFER TO SUBMITTED DOCUMENT FROM UNIT MANUFACTURER.
7. UNITS SHALL MEET ENERGY STAR.
8. THE ELECTRIC RESISTANCE SHALL TURN ON, ONLY WHEN THE HEAT PUMP CAN'T HANDLE THE LOAD. THE AUX. HEAT MODE IS NORMAL WHEN: THE TEMPERATURE OUTSIDE IS BELOW FREEZING AND HEAT PUMP IN DEFROST MODE.

SCHEDULE OF ROOFTOP UNIT

MANUFACTURE			SUPPLY FAN			EAT (DB/WB) LAT (DB/WB)	DX COOLING SECTION			HEATING SECTION		ELECTRICAL			BASIS OF DESIGN	NOTES
MARK	SERVICE	NOMINAL TON	SA(CFM)	OA(CFM)	ESP W.G		TOTAL (MBH)	SENSIBLE (MBH)	IEER/EER	OUTPUT CAPACITY (MBH)	EAT/LAT	VOLTAGE	MCA	MOCP		
RTU-1	FIRST FLOOR	20	6400	575	1.25	80.0/67.0 °F 57.34/55.46 °F	248.02	167.52	11.50/9.70	243.74	70/102.07	208/3/60	257	300	WSH240E3RPD	1, 2, 3

NOTES:

1. PROVIDE AND INSTALL ADJUSTABLE PROGRAMMABLE THERMOSTAT WITH HEAT/COOL AUTO CHANGEOVER AND NIGHT SETBACK.
2. LOW AMBIENT COOLING DOWN TO 0 DEG F WITH SHORT CYCLE PROTECTION AND HIGH HEAD PRESSURE CUTOUT.
3. MOTORIZED OUTSIDE AIR DAMPER
4. PROVIDE AND INSTALL RETURN AND SUPPLY AIR SMOKE DETECTOR WITH AUTO-SHUTDOWN OF UNIT UPON DETECTION OF FIRE.

LOUVER SCHEDULE

DESIGNATION	SERVICE	CFM	SIZE W x H	FREE AREA (SQ.FT.)	PRESSURE DROP (IN W.G.)	FACE VELOCITY (FPM)	MANUFACTURER & MODEL NUMBER OR APPROVED EQUAL	NOTES
LV-1	AHU-1,2 (AIR INTAKE)	6000	60"x36"	9.41	0.061	568	GREENHECK ESD-635	1,2,3,4

NOTES:

1. LOUVER SHALL BE WEATHER PROOF AND DRAINABLE.
2. LOUVER SHALL BE INSTALLED AS HIGH AS POSSIBLE.
3. LOUVER COLOR SHALL MATCH THE EXISTING LOUVERS LOCATED ON BUILDING EXTERIOR WALL.
4. PROVIDE LOUVER WITH BIRD OR INSECT SCREEN.

MECHANICAL COMPLIANCE CERTIFICATE

Project Information

Energy Code: 2018 IECC
Project Title: IGLESIA VIDA NUEVA INTERNATIONAL
Location: Silver Spring, Maryland
Climate Zone: 4a
Project Type: New Construction

Construction Site:
12450 OLD CULUMBIA PIKE SLIVER SPRING
SLIVER SPRING, MARYLAND 20904
MARYLAND, MD 20904

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Mechanical Systems List

Quantity System Type & Description

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 243 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 248 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency: 10.00 EER + 11.6 IEER
Fan System: Unspecified

1 HP-1 (FC-1,2,3) (Multiple-Zone):
Split System Heat Pump
Heating Mode: Capacity = 11 kBtu/h,
Proposed Efficiency = 11.00 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 9 kBtu/h,
Proposed Efficiency = 0.00 SEER, Required Efficiency: 14.00 SEER
Fan System: Unspecified
SYSTEM COMPLIANCE FAILS: PROPOSED EFFICIENCY FAILS TO MEET CODE REQUIREMENTS.

1 HVAC System 1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 36 kBtu/h,
Proposed Efficiency = 0.00 COP, Required Efficiency = 3.30 COP
Cooling Mode: Capacity = 74 kBtu/h, , Air Economizer
Proposed Efficiency = 11.90 EER, Required Efficiency: 11.00 EER + 12.0 IEER
Fan System: Unspecified
SYSTEM COMPLIANCE FAILS: PROPOSED EFFICIENCY FAILS TO MEET CODE REQUIREMENTS.

1 HVAC System 2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 111 kBtu/h,
Proposed Efficiency = 0.00 COP, Required Efficiency = 3.20 COP
Cooling Mode: Capacity = 188 kBtu/h, , Air Economizer
Proposed Efficiency = 11.90 EER, Required Efficiency: 10.60 EER + 11.6 IEER
Fan System: Unspecified
SYSTEM COMPLIANCE FAILS: PROPOSED EFFICIENCY FAILS TO MEET CODE REQUIREMENTS.

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
Sam: 571-220-3239
DAENG2000@GMAIL.COM
www.daeng2000.com

Date:

Revisions:

PROFESSIONAL CERTIFICATION:

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE# 47084 EXPIRATION DATE 08/06/2025

Project Title:

Iglesic Vida Nueva Unida International
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

MECHANICAL SCHEDULES

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021

Scale:

Drawn:

Checked:

File No.

Drawing No.

M400

Air Handler #1 - AHU-1 - Total Load Summary

Air Handler Description: AHU-1 Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.20 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.90 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 2pm in August.
Outdoor Conditions: Clg: 93° DB, 75° WB, 101.95 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	19,641 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	26,185 Btuh	375 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			45,826 Btuh
Heating Supply Air: 19,641 / (.995 X 1.08 X 9) =		2,100 CFM	
Winter Vent Outside Air (17.9% of supply) =		375 CFM	
Zone space sensible gain:	27,164 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	500 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	18,282 Btuh		
Total sensible gain on supply side of coil:			45,946 Btuh
Cooling Supply Air: 45,946 / (.995 X 1.1 X 20) =		2,100 CFM	
Summer Vent Outside Air (17.9% of supply) =		375 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	7,385 Btuh	375 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			7,385 Btuh
Total sensible gain on air handling system:			53,332 Btuh
Zone space latent gain:	5,175 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	9,514 Btuh		
Total latent gain on air handling system:			14,689 Btuh
Total system sensible and latent gain:			68,021 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	2,100 CFM
Total Air Handler Vent. Air (17.86% of Supply):	375 CFM
Total Conditioned Air Space:	2,777 Sq.ft
Supply Air Per Unit Area:	0.7561 CFM/Sq.ft
Area Per Cooling Capacity:	489.9 Sq.ft/Ton
Cooling Capacity Per Area:	0.0020 Tons/Sq.ft
Heating Capacity Per Area:	16.50 Btuh/Sq.ft
Total Heating Required With Outside Air:	45,826 Btuh
Total Cooling Required With Outside Air:	5.67 Tons

Unit Designation: AHU-1 | Unit Total Supply Air: 2100 | Unit Total Required Outdoor Air: 512 CFM | Unit Total Provided Outdoor Air: 515 CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
CLASSROOM 1	CLASSROOM	238	0.12	29	35	9	10	90	119	0.8	149
CLASSROOM 2	CLASSROOM	290	0.12	35	35	11	10	110	145	0.8	182
A/V ROOM	STORAGE	74	0.12	9	0	0	0	0	9	0.8	12
CRY ROOM	WAITING RM	120	0.06	7	50	6	7.5	45	52	0.8	65
CORRIDOR 1	CORRIDOR	482	0.06	29	0	0	0	0	29	0.8	37
CORRIDOR 2	CORRIDOR	880	0.06	53	0	0	0	0	53	0.8	67
Totals		2084		162		0		245	407	0.8	512

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
24%	512

Air Handler #2 - AHU-2 - Total Load Summary

Air Handler Description: AHU-2 Constant Volume - Proportion
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.38 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.76 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 92° DB, 75° WB, 104.46 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in August at 9pm is different from the total system peak time, hence the air system CFM was computed using a zone sensible load of 50,693.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	7,652 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	51,322 Btuh	735 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			58,973 Btuh
Heating Supply Air: 7,652 / (.995 X 1.08 X 2) =		4,000 CFM	
Winter Vent Outside Air (18.4% of supply) =		735 CFM	
Zone space sensible gain:	50,473 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	953 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	35,871 Btuh		
Total sensible gain on supply side of coil:			87,297 Btuh
Cooling Supply Air: 87,517 / (.995 X 1.1 X 20) =		3,999 CFM	
Summer Vent Outside Air (18.4% of supply) =		735 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	13,671 Btuh	735 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			13,671 Btuh
Total sensible gain on air handling system:			100,968 Btuh
Zone space latent gain:	27,675 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	19,457 Btuh		
Total latent gain on air handling system:			47,132 Btuh
Total system sensible and latent gain:			148,100 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	3,999 CFM
Total Air Handler Vent. Air (18.38% of Supply):	735 CFM
Total Conditioned Air Space:	3,505 Sq.ft
Supply Air Per Unit Area:	1.1410 CFM/Sq.ft
Area Per Cooling Capacity:	284.0 Sq.ft/Ton
Cooling Capacity Per Area:	0.0035 Tons/Sq.ft
Heating Capacity Per Area:	16.83 Btuh/Sq.ft
Total Heating Required With Outside Air:	58,973 Btuh
Total Cooling Required With Outside Air:	12.34 Tons

Unit Designation: AHU-2 | Unit Total Supply Air: 4000 | Unit Total Required Outdoor Air: 2508 CFM | Unit Total Provided Outdoor Air: 2510CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
CLASSROOM 3	CLASSROOM	244	0.12	29	35	9	10	90	119	0.8	149
CLASSROOM 4	CLASSROOM	234	0.12	28	35	9	10	90	118	0.8	148
FELLOWSHIP HALL	FELLOWSHIP HALL	2640	0.06	158	120	317	5	1585	1743	0.8	2179
WARMING PANTRY	PANTRY	247	0.06	15	5	2	5	10	25	0.8	32
STORAGE	STORAGE	140	0	0	0	0	0	0	0	0.8	0
Totals		3505		230		337		1775	2005	0.8	2508

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
63%	2508

Air Handler #3 - RTU-1 - Total Load Summary

Air Handler Description: AHU-3 Constant Volume - Proportion
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.60 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.69 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 4pm in August.
Outdoor Conditions: Clg: 93° DB, 75° WB, 101.95 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	16,454 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	40,150 Btuh	575 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			56,604 Btuh
Heating Supply Air: 16,454 / (.995 X 1.08 X 2) =		6,400 CFM	
Winter Vent Outside Air (9.0% of supply) =		575 CFM	
Zone space sensible gain:	100,382 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	1,525 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	38,127 Btuh		
Total sensible gain on supply side of coil:			140,034 Btuh
Cooling Supply Air: 140,034 / (.995 X 1.1 X 20) =		6,399 CFM	
Summer Vent Outside Air (9.0% of supply) =		575 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	11,324 Btuh	575 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			11,324 Btuh
Total sensible gain on air handling system:			151,359 Btuh
Zone space latent gain:	63,000 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	14,589 Btuh		
Total latent gain on air handling system:			77,589 Btuh
Total system sensible and latent gain:			228,947 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	6,399 CFM
Total Air Handler Vent. Air (8.99% of Supply):	575 CFM
Total Conditioned Air Space:	3,428 Sq.ft
Supply Air Per Unit Area:	1.8668 CFM/Sq.ft
Area Per Cooling Capacity:	179.7 Sq.ft/Ton
Cooling Capacity Per Area:	0.0056 Tons/Sq.ft
Heating Capacity Per Area:	16.51 Btuh/Sq.ft
Total Heating Required With Outside Air:	56,604 Btuh
Total Cooling Required With Outside Air:	19.08 Tons

Unit Designation: RTU-1 | Unit Total Supply Air: 6400 | Unit Total Required Outdoor Air: 2036 CFM | Unit Total Provided Outdoor Air: 2040 CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
SANCTUARY SEATING	SANCTUARY	2390	0.06	143	120	287	5	1435	1578	0.8	1973
PULPIT STAGE	OFFICE	590	0.06	35	5	3	5	15	50	0.8	63
CHANGE ROOM	CHANGE RM	84	0	0	0	0	0	0	0	0.8	0
CORRIDOR 3	CORRIDOR	118	0.06	7	0	0	0	0	7	0.8	9
Totals		3182		185		290		1450	1635	0.8	2036

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
32%	2036

Air Handler #4 - FC-1 - Total Load Summary

Air Handler Description: FC-1 Constant Volume - Proportion
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.03 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 1.00 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 2pm in August.
Outdoor Conditions: Clg: 93° DB, 75° WB, 101.95 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,101 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	2,095 Btuh	30 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			4,196 Btuh
Heating Supply Air: 2,101 / (.995 X 1.08 X 7) =		300 CFM	
Winter Vent Outside Air (10.0% of supply) =		30 CFM	
Zone space sensible gain:	2,496 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	71 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	3,657 Btuh		
Total sensible gain on supply side of coil:			6,224 Btuh
Cooling Supply Air: 6,224 / (.995 X 1.1 X 19) =		299 CFM	
Summer Vent Outside Air (10.0% of supply) =		30 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	591 Btuh	30 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			591 Btuh
Total sensible gain on air handling system:			6,815 Btuh
Zone space latent gain:	0 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	761 Btuh		
Total latent gain on air handling system:			761 Btuh
Total system sensible and latent gain:			7,576 Btuh

Check Figures

Total Air Handler Supply Air (based on a 19° TD):	299 CFM
Total Air Handler Vent. Air (10.02% of Supply):	30 CFM
Total Conditioned Air Space:	231 Sq.ft
Supply Air Per Unit Area:	1.2959 CFM/Sq.ft
Area Per Cooling Capacity:	365.9 Sq.ft/Ton
Cooling Capacity Per Area:	0.0027 Tons/Sq.ft
Heating Capacity Per Area:	18.16 Btuh/Sq.ft
Total Heating Required With Outside Air:	4,196 Btuh
Total Cooling Required With Outside Air:	0.63 Tons

Unit Designation: FC-1 | Unit Total Supply Air: 300 | Unit Total Required Outdoor Air: 30 CFM | Unit Total Provided Outdoor Air: 30 CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
PASTOR STUDY	OFFICE	231	0.06	14	5	2	5	10	24	0.8	30
Totals		231		14		2		10	24	0.8	30

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
10%	30

Air Handler #5 - FC-2 - Total Load Summary

Air Handler Description: FC-2 Constant Volume - Proportion
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.03 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.94 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 2pm in August.
Outdoor Conditions: Clg: 93° DB, 75° WB, 101.95 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,437 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	1,397 Btuh	20 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			2,833 Btuh
Heating Supply Air: 1,437 / (.995 X 1.08 X 4) =		350 CFM	
Winter Vent Outside Air (5.7% of supply) =		20 CFM	
Zone space sensible gain:	2,145 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	83 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	5,412 Btuh		
Total sensible gain on supply side of coil:			7,640 Btuh
Cooling Supply Air: 7,640 / (.995 X 1.1 X 20) =		349 CFM	
Summer Vent Outside Air (5.7% of supply) =		20 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	394 Btuh	20 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			394 Btuh
Total sensible gain on air handling system:			8,033 Btuh
Zone space latent gain:	450 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	507 Btuh		
Total latent gain on air handling system:			957 Btuh
Total system sensible and latent gain:			8,991 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	349 CFM
Total Air Handler Vent. Air (5.73% of Supply):	20 CFM
Total Conditioned Air Space:	170 Sq.ft
Supply Air Per Unit Area:	2.0534 CFM/Sq.ft
Area Per Cooling Capacity:	226.9 Sq.ft/Ton
Cooling Capacity Per Area:	0.0044 Tons/Sq.ft
Heating Capacity Per Area:	16.66 Btuh/Sq.ft
Total Heating Required With Outside Air:	2,833 Btuh
Total Cooling Required With Outside Air:	0.75 Tons

Unit Designation: FC-2 | Unit Total Supply Air: 350 | Unit Total Required Outdoor Air: 19 CFM | Unit Total Provided Outdoor Air: 20 CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
FIRST LADY STUDY	OFFICE	170	0.06	10	5	1	5	5	15	0.8	19
Totals		170		10		1		5	15	0.8	19

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
5%	19

Air Handler #6 - FC-3 - Total Load Summary

Air Handler Description: FC-3 Constant Volume - Proportion
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.02 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.91 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 2pm in August.
Outdoor Conditions: Clg: 93° DB, 75° WB, 101.95 grains, Htg: 10° DB
Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,234 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	1,397 Btuh	20 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			2,631 Btuh
Heating Supply Air: 1,234 / (.995 X 1.08 X 6) =		200 CFM	
Winter Vent Outside Air (10.0% of supply) =		20 CFM	
Zone space sensible gain:	1,956 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	48 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	2,365 Btuh		
Total sensible gain on supply side of coil:			4,368 Btuh
Cooling Supply Air: 4,368 / (.995 X 1.1 X 20) =		200 CFM	
Summer Vent Outside Air (10.0% of supply) =		20 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	394 Btuh	20 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			394 Btuh
Total sensible gain on air handling system:			4,762 Btuh
Zone space latent gain:	450 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	507 Btuh		
Total latent gain on air handling system:			957 Btuh
Total system sensible and latent gain:			5,720 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	200 CFM
Total Air Handler Vent. Air (10.02% of Supply):	20 CFM
Total Conditioned Air Space:	140 Sq.ft
Supply Air Per Unit Area:	1.4257 CFM/Sq.ft
Area Per Cooling Capacity:	293.7 Sq.ft/Ton
Cooling Capacity Per Area:	0.0034 Tons/Sq.ft
Heating Capacity Per Area:	18.79 Btuh/Sq.ft
Total Heating Required With Outside Air:	2,631 Btuh
Total Cooling Required With Outside Air:	0.48 Tons

Unit Designation: FC-3 | Unit Total Supply Air: 200 | Unit Total Required Outdoor Air: 17 CFM | Unit Total Provided Outdoor Air: 20 CFM

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x F/1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
GENERAL OFFICE	OFFICE	140	0.06	8	5	1	5	5	13	0.8	17
Totals		140		8		1		5	13	0.8	17

IMC 2018 SECTION 403 VERIFICATION RATE PROCEDURE

Percentage of Outdoor Air	Total Required Outdoor Air
9%	17

Date:

Revisions:

PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE# 47084 EXPIRATION DATE 08/06/2025

Project Title:
Iglesic Vida Nueva Unida International
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

MECHANICAL CALCULATIONS

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
Sam: 571-220-3239
DAENG2000@GMAIL.COM
www.daeng2000.com

Date: MARCH 22, 2021

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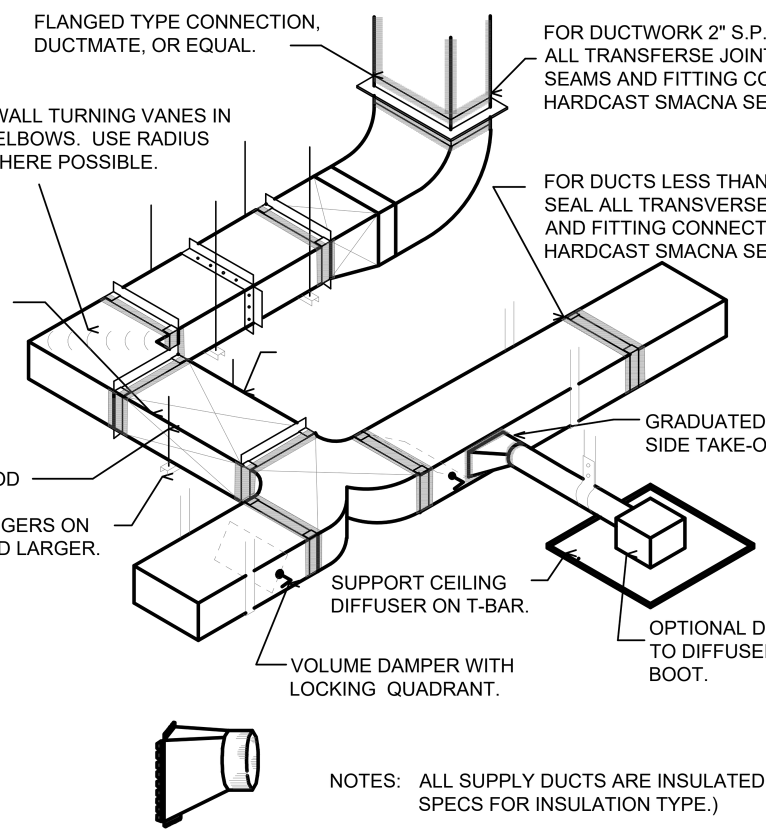
File No.

Drawing No.

M500

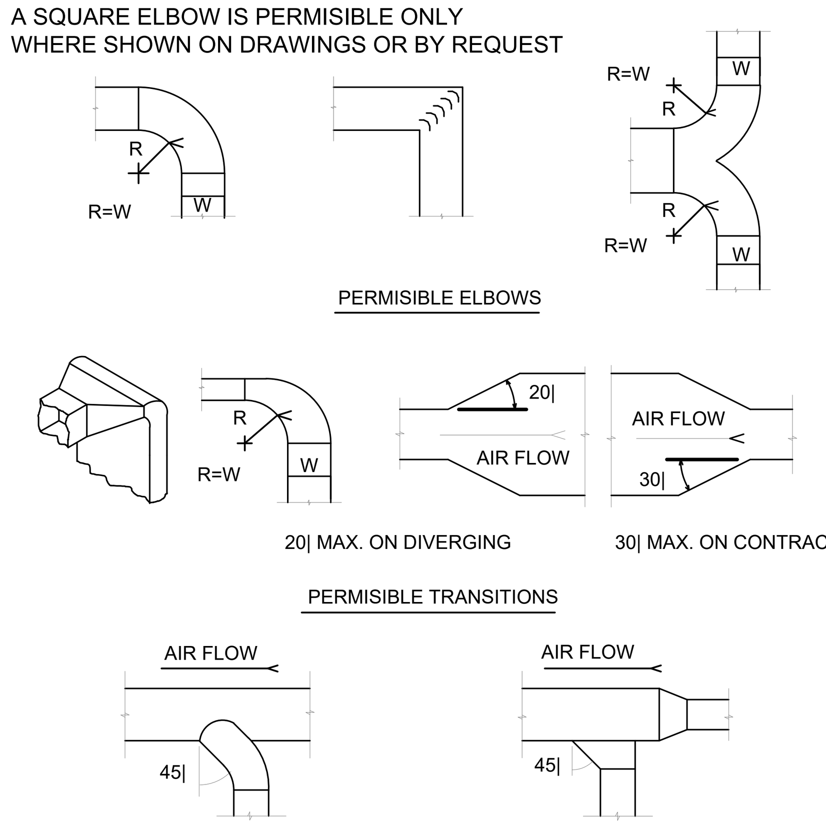


NOTES: ALL SUPPLY DUCTS ARE INSULATED. (SEE SPECS FOR INSULATION TYPE.)

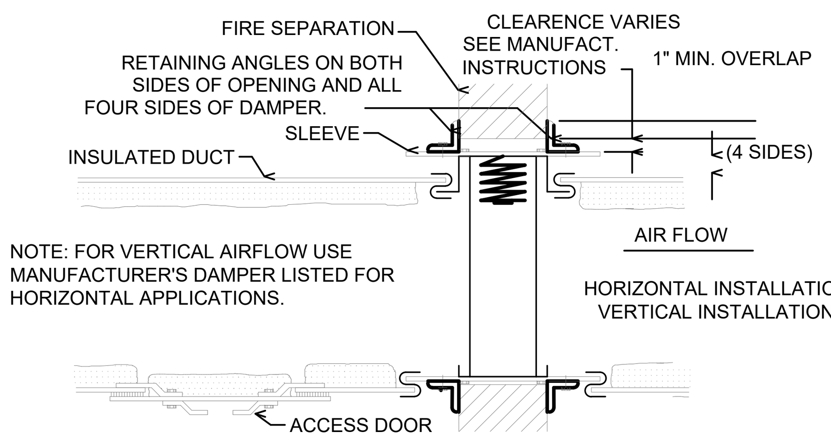
SINGLE BLADE DAMPERS SHOWN. PROVIDE MULTIBLADE DAMPERS FOR ALL DUCTS 12" DEEP AND LARGER.

1 TYPICAL DUCT INSTALLATION
N.T.S.

A SQUARE ELBOW IS PERMISIBLE ONLY WHERE SHOWN ON DRAWINGS OR BY REQUEST



2 DUCT TRANSITIONS
N.T.S.



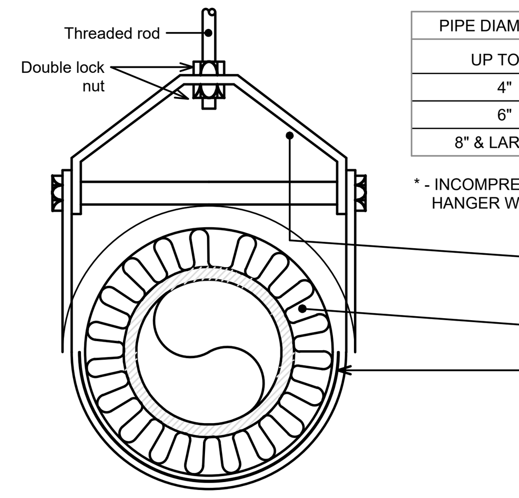
NOTE: FOR VERTICAL AIRFLOW USE MANUFACTURER'S DAMPER LISTED FOR HORIZONTAL APPLICATIONS.

HORIZONTAL INSTALLATION SHOWN, VERTICAL INSTALLATION SIMILAR.

NOTE:

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND MUST COMPLY WITH UL555.
2. FASTEN RETAINING ANGLES AND SLEEVE PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE REMOVABLE ACCESS DOOR (16" X DUCT WIDTH-2") W/ CAM TYPE LATCHES. SEE PLANS FOR ACCESS DOOR/DAMPER ORIENTATIONS OR INSTALL ON UPSTREAM SIDE WHEN NOT INDICATED.
4. INSTALL DAMPERS SO THAT LATCHING DEVICE, IF PRESENT, IS ACCESSIBLE FROM ACCESS DOOR.
5. ALL DUCTWORK, LATCHING DEVICES, ANGLES, GASKETS, SLEEVES, FIRE OR SMOKE DAMPERS AND FUSIBLE LINKS PROVIDED BY HVAC CONTRACTOR.
6. MANUFACTURER'S INSTRUCTIONS SHALL TAKE PRECEDENCE OVER THIS DETAIL IN CASE OF CONFLICT.

3 FIRE OR SMOKE DAMPER
N.T.S.



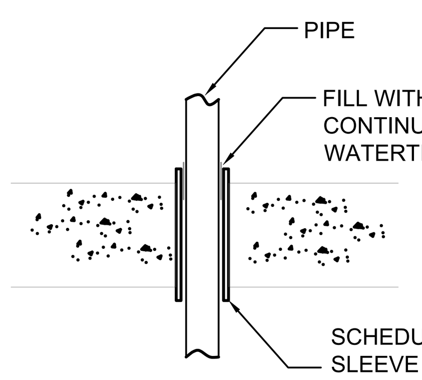
PIPE DIAMETER	SHIELD LENGTH
UP TO 3"	12"
4"	15"
6"	21"
8" & LARGER	*

* - INCOMPRESSIBLE INSULATING BLOCK AT HANGER WITH 24" SHIELD.

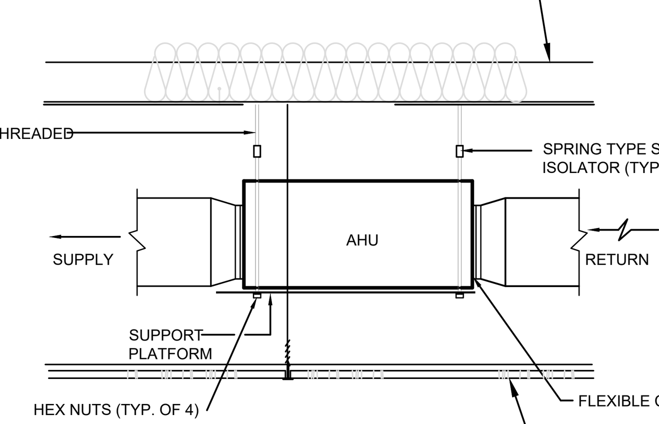
INSULATED PIPE SUPPORT

Nominal steel pipe size (In.)	Rod Diameter	Maximum Spacing (Steel)	Copper tube O.D. (Inches)	Maximum Spacing (Copper)
Up to 1-1/4"	3/8"	8'	5/8	6'
1-1/2" to 2-1/2"	3/8"	10'	7/8 to 1-1/8	8'
3" to 3-1/2"	1/2"	12'	1-3/8 to 2-1/8	10'
4" to 6"	5/8"	14'	2-5/8 to 5-1/8	12'
8" to 12"	3/4"	16'	6-1/8 to 8-1/8	14'
14" to 24'	3/4"	20'		

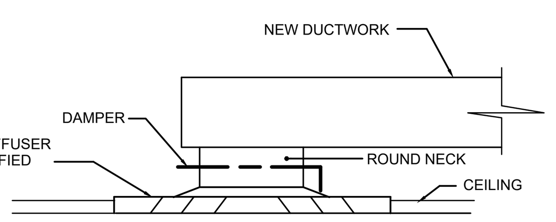
4 PIPE HANGER SCHEDULE
N.T.S.



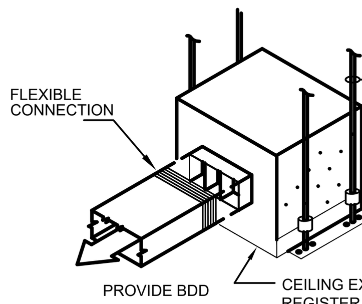
5 (TYP.) PIPE PENETRATION DETAIL
N.T.S.



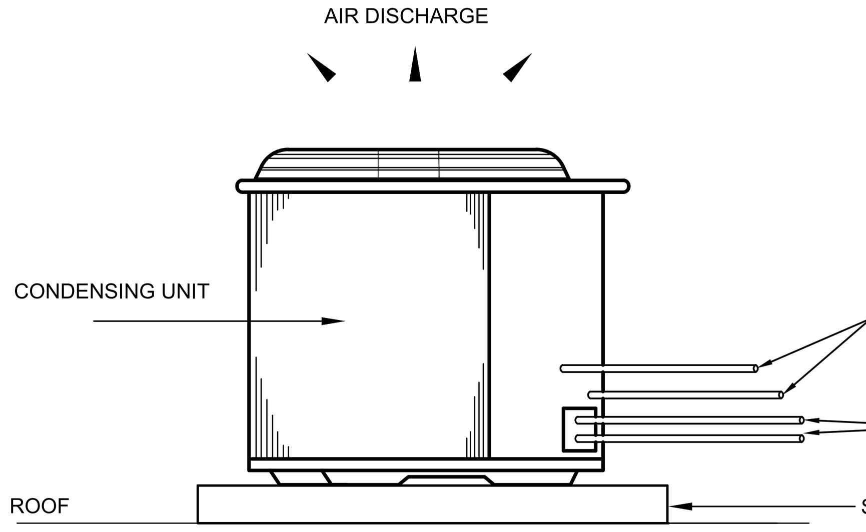
6 AIR HANDLING UNIT DETAIL(TYP.)
N.T.S.



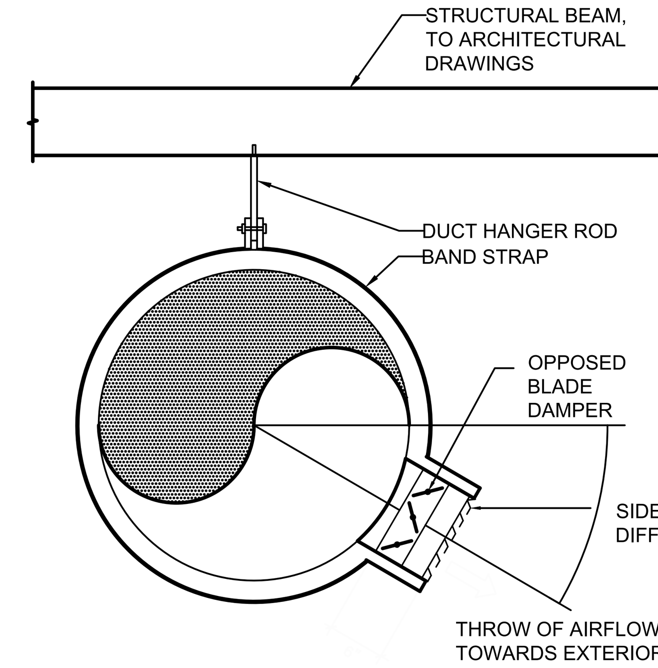
7 (TYP.) DIFFUSER CONNECTION DETAIL
N.T.S.



8 CEILING EXHAUST
N.T.S.



9 CONDENSER UNIT DETAIL (TYP.)
N.T.S.



10 ANGLE SIDEWALL DIFFUSER DETAIL
N.T.S.

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PLUMBING SPECIFICATIONS

GENERAL

A. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL CODES, ORDINANCES AND STANDARDS OF THE LOCAL JURISDICTION.IN CASE OF A CONFLICT BETWEEN DRAWINGS OR SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL JURISDICTION, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

B. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS, LEAKS, LACK OF PROPER SYSTEM PERFORMANCE OR NON–OPERATION FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.

C. ALL WORK SHALL BE COORDINATED WITH ALL TRADES, PRIOR TO INSTALLATION.

D. IN GENERAL, DRAWINGS FOR THE WORK ARE DIAGRAMMATIC AND SHOW THE LOCATION, TYPE AND SIZE OF PIPING, EQUIPMENT, AND ACCESSORY EQUIPMENT. THE CONTRACTOR SHALL FURNISH ALL ITEMS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE WORK, WHETHER CALLED FOR OR NOT. THE CONTRACTOR SHALL VERIFY ALL NECESSARY DIMENSIONS BEFORE INSTALLING ANY OF THE WORK AND SHALL CHECK HIS LAYOUTS TO ALLOW CLEARANCE REQUIRED FOR OTHER WORK. THE SCOPE OF WORK CONSISTS GENERALLY OF PROVIDING AND INSTALLING COMPLETE PLUMBING AND GAS SYSTEMS AND FINAL TESTING OF ALL SYSTEMS AND EQUIPMENT AS REQUIRED.

PRODUCTS

A. PLUMBING FIXTURES: ALL FIXTURES SHALL BE SELECTED BY OWNER. PROVIDE ALL FIXTURES WITH TRIM, CARRIER SUPPLIES, AND TRAPS AS REQUIRED FOR COMPLETE INSTALLATION.

B. PIPING AND FITTING:

1. DOMESTIC WATER:
ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI WROUGHT COPPER SWEAT FITTINGS, AND ALL JOINT SOLDERED WITH 95/5 OR SILVER SOLDER. BELOW GRADE SHALL BE TYPE "K" SOFT DRAWN COPPER TUBING WITH 125 PSI WROUGHT COPPER SWEAT FITTINGS SOLDERED WITH SILVER SOLDER.

2. SOIL, WASTE AND VENT:
ABOVE GRADE SHALL BE: SERVICE WEIGHT CAST IRON BELL AND SPIGOT.SCHEDULE 40 GALVANIZED STEEL PIPE WITH SWEAT. CAST IRON DRAINAGE PATTERN FITTINGS. CAST IRON NO–HUB PIPING AND FITTINGS.DWV COPPER TUBING AND COPPER DRAINAGE PATTERN FITTINGS.SCHEDULE 40 PVC PLASTIC PIPE AND PVC–DWV FITTING. (SHALL NOT BE USED IN PLENUM SPACES.) BELOW GRADE SHALL BE: SERVICE WEIGHT CAST IRON BELL AND SPIGOT. SOIL, WASTE AND VENT STACKS SHALL BE SERVICE WEIGHT CAST IRON BELL AND SPIGOT.

C. INSULATION:

1. DOMESTIC WATER PIPING:
COVER ALL WITH 1/2" FIBERGLASS INSULATION (R3 SECURED WITH ALL PURPOSE JACKET. PIPING IN EXTERIOR WALLS AND PLUMBING CHASES SHALL BE COVERED WITH 1" THICK INSULATION.

2. STORM WATER PIPING:
THE HORIZONTAL SECTION OF THE RAIN LEADERS, RISER TO AND INCLUDING THE INTERIOR PART OF THE ROOF DRAIN SHALL BE COVERED WITH 1" THICK INSULATION.

D. VALVES:

1. DOMESTIC WATER:
ALL VALVES SHALL BE SWEATED BRONZE GATE VALVE WITH SCREW–IN BONNET, RISING STEM MINIMUM RATING OF 125 PSI. TWO PIECES BALL VALVES WITH EXTENDED HANDLE MAY BE USED IN LIEU OF THE GATE VALVES.

E. HANGERS:
SHALL BE ADJUSTABLE CLEVIS HANGERS, PROPERLY SIZED AND SPACED FOR PIPING, INCLUDING INSULATION.

EXECUTION

A. INSTALL FIXTURES LEVEL, PLUMB AND PARALLEL TO WALLS. ALL EXPOSED METAL PARTS SHALL BE CHROME PLATED AND SHOW NO TOOL MARKS. GROUT BETWEEN WALL HUNG FIXTURES AND WALL. PROVIDE ACCESS PANELS TO ALL CONCEALED SUPPLY STOPS AND TRAP.

B. FIXTURES DESIGNATED FOR USE B PHYSICALLY HANDICAPPED PEOPLE SHALL BE IN ACCORDANCE WITH ANSI A 117.1.

C. INSTALL DIELECTRIC CONNECTION BETWEEN DISSIMILAR METALS, PIPE TO PIPE, PIPE TO EQUIPMENT, PIPE TO SUPPORT.

5. FURNISH AND INSTALL JOSAM 75000 SERIES SHOCK ARRESTERS AT THE ENDS OF ALL HOT AND COLD WATER BRANCHES TO FIXTURES. SIZES SHALL BE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.1

PLUMBING NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE BUILDING CODE, LOCAL REQUIREMENTS AND THE PROJECT SPECIFICATIONS.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
3. ALL DRAINAGE PIPING SHALL BE RUN AT A SLOPE OF 1/4" PER FOOT UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS.
4. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMISSION OF BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
5. ALL HOT AND COLD WATER SUPPLY PIPING SHALL BE INSULATED.
6. PROVIDE AND INSTALL CLEAN–OUTS IN DRAINAGE PIPING AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES, EVERY 50 FEET, AND AS SHOWN.
7. EXPOSED UTILITY SERVICE LINES AND PIPES SHALL BE INSTALLED SO THAT THEY DO NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILINGS. EXPOSED HORIZONTAL UTILITY SERVICE LINES AND PIPES SHALL NOT BE INSTALLED ON THE FLOOR.
8. CONTRACTOR TO VERIFY SIZE AND LOCATION OF SANITARY, AND COLD/HOT WATER AND GAS PIPES PRIOR TO STARTING WORK.
9. EXISTING UTILITIES AND EQUIPMENT NOT SHOWN OR NOT SHOWN TO BE REPLACED SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
10. CONTRACTOR SHALL REMOVE AND DISPOSE ALL PLUMBING MATERIAL, FIXTURES AND EQUIPMENT FROM TENANT SPACE AS SHOWN ON DRAWING. COORDINATE DEMOLITION WITH NEW CONSTRUCTION PLAN.

PLUMBING LEGEND

SANITARY PIPE
G GAS PIPE
VENT PIPE
DOMESTIC COLD WATER PIPE
DOMESTIC HOT WATER PIPE
CLEAN OUT
PIPE UP, PIPE DOWN
SHUT–OFF GATE VALVE, VALVE IN VERTICAL
PIPE UNION
FLOOR DRAIN

PLUMBING ABBREVIATIONS

CO	CLEANOUT
CW	COLD WATER
DN	DOWN
FD	FLOOR DRAIN
FL	FIRE LINE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	HOT WATER
LAV	LAVATORY
PSI	POUND PER SQUARE INCH
OSD	OPEN SITE DRAIN
SAN	SANITARY
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET

MARYLAND CODES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE MARYLAND STATE CODES (AS STATED BELOW) OR ALL THE APPLICABLE CODES IN FORCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

- 2018 MARYLAND BUILDING CODE.
- 2018 MARYLAND ENERGY CONSERVATION CODE.
- 2018 MARYLAND PLUMBING CODE.
- 2012 MARYLAND PROPERTY MAINTENANCE CODE.
- 2017 NATIONAL ELECTRICAL CODE NFPA70.
- 2012 MARYLAND GREEN CONSTRUCTION CODE.
- 2018 MARYLAND MECHANICAL CODE.
- 2015 MARYLAND EXISTING BUILDING CODE.
- 2012 MARYLAND ACCESSIBLY CODE.
- 2010 ADA STANDARD.

WATER HEATER SCHEDULE – (EWH)

MARK	AREA SERVED	RECOVERY			CAPACITY (GALLONS)	ELECTRIC DATA		REMARKS
		GPH	EWT	LWT		VOLT/PH/HZ	KW	
EWH	SEE PLAN	18	40	120	55	208/01/60	8 KW	BRADFORD, MODEL: LE255T3–3

NOTE: INSTALL HEATER AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

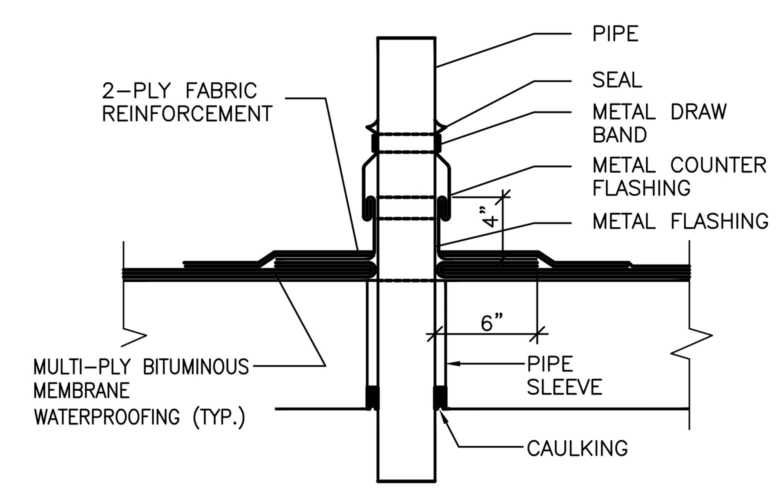
SHEET INDEX:

PLUMBING FIXTURE SCHEDULE

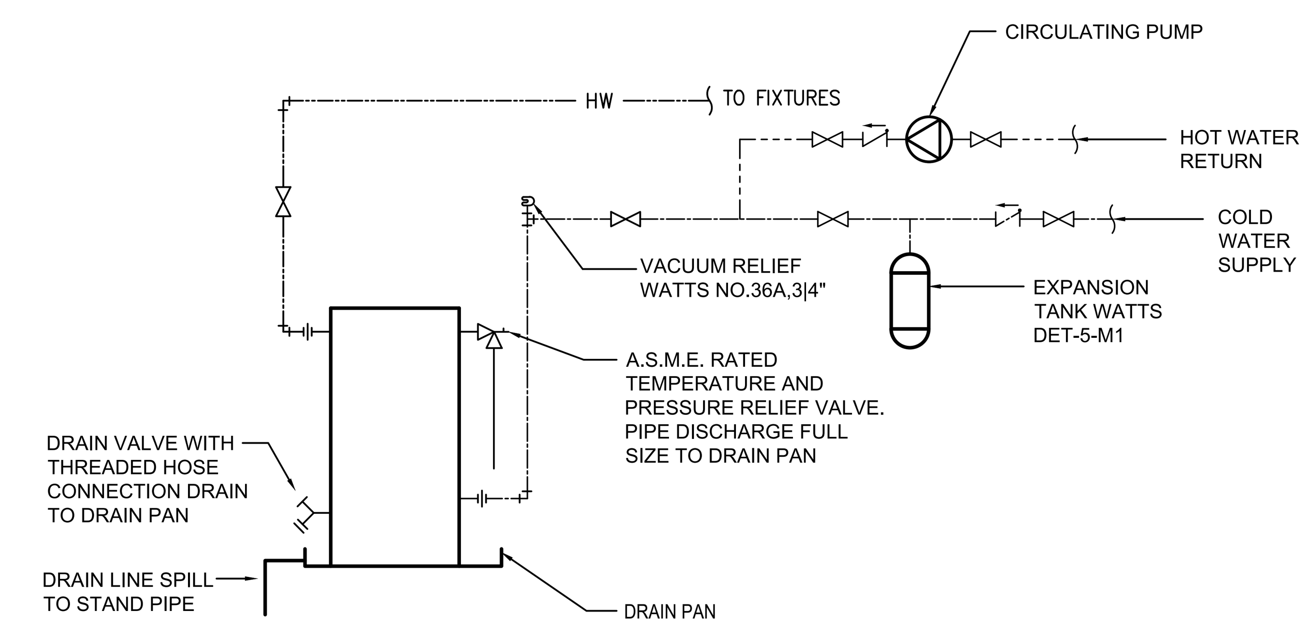
ITEM:	DESCRIPTION:	C.W.	H.W.	DRAIN DIR.	DRAIN IND.	VENT	REMARK
L	LAVATORY	1/2"	1/2"	1 1/2"	–	1 1/2"	PROVIDE BY OWNER
WC	WATER CLOSET	3/4"	–	3"	–	2"	PROVIDE BY OWNER
HWC	WATER CLOSET(HANDICAP)	3/4"	–	3"	–	2"	PROVIDE BY OWNER
UR	URINAL	3/4"	–	2"	–	2"	PROVIDE BY OWNER
F.D.	FLOOR DRAIN	–	–	3"	–	2"	PROVIDE BY OWNER
HL	HANDICAP LAVATORY	1/2"	1/2"	1 1/2"	–	1 1/2"	PROVIDE BY OWNER
JS	JANITOR SINK	1/2"	1/2"	3"	–	2"	PROVIDE BY OWNER
KS	KITCHEN SINK	1/2"	1/2"	1 1/2"	–	1 1/2"	PROVIDE BY OWNER
DF	DRINKING FOUNTAIN	1/2"	–	1 1/2"	–	1 1/2"	PROVIDE BY OWNER
HWH	HOT WATER HEATER	1"	1"	–	–	–	PROVIDE BY OWNER
C.O.	CLEAN OUT	–	–	4"	–	–	PROVIDE BY OWNER
H.B.	HOSEBIB	1/2"	–	–	–	–	PROVIDE BY OWNER

NOTE:

1. COORDINATE WITH ARCH./OWNER PRIOR TO PURCHASE.
2. SET TEMPERING VALVE AT 105° F. VALVES SHALL MEET ASSE 1070.
3. WATER CLOSET SHALL BE TANK TYPE WITH HINGED OPEN FRONT SEAT, SIZED FOR BOWL TYPE.
4. PROVIDE CARRIER AND FITTINGS AS RECOMMENDED BY MANUFACTURER.
5. COMPLY WITH ANSI A117,1 FOR ACCESSIBLE FIXTURE'S MOUNTING HEIGHTS.



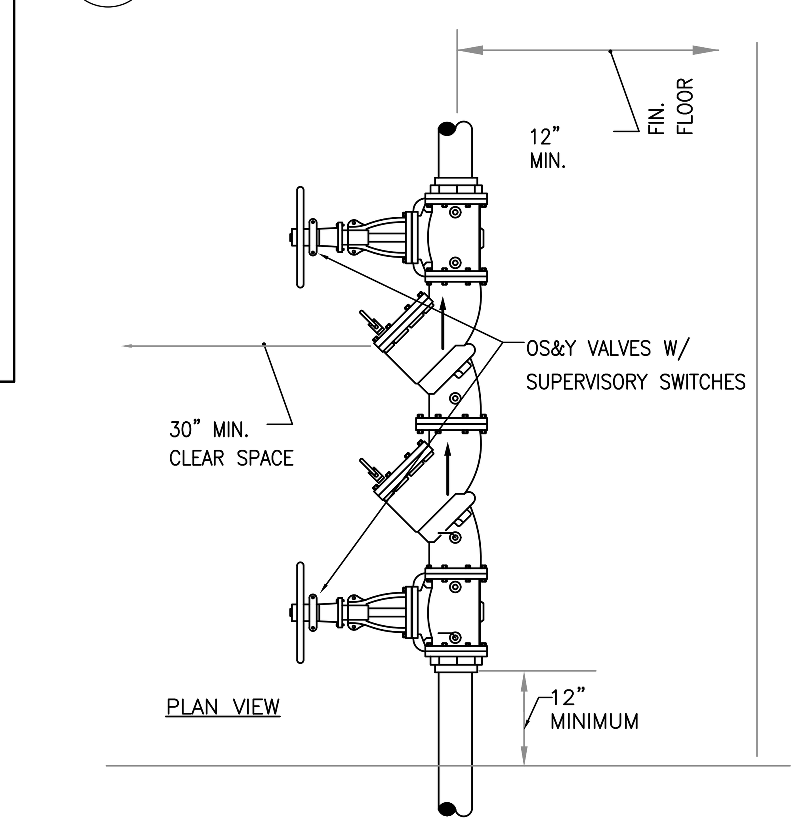
1 TYPICAL PIPE ROOF PENETRATION DETAIL
N.T.S.



NOTES:

1. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL HOT WATER CIRCULATION SYSTEM COMPLETE WITH ALL NECESSARY PUMPS, VALVES, CONTROLS AND INSULATION.
2. PROVIDE 0.5" MINIMUM INSULATION FOR DOMESTIC COLD WATER PIPES.
3. PROVIDE 1" MINIMUM INSULATION FOR DOMESTIC HOT WATER PIPES.

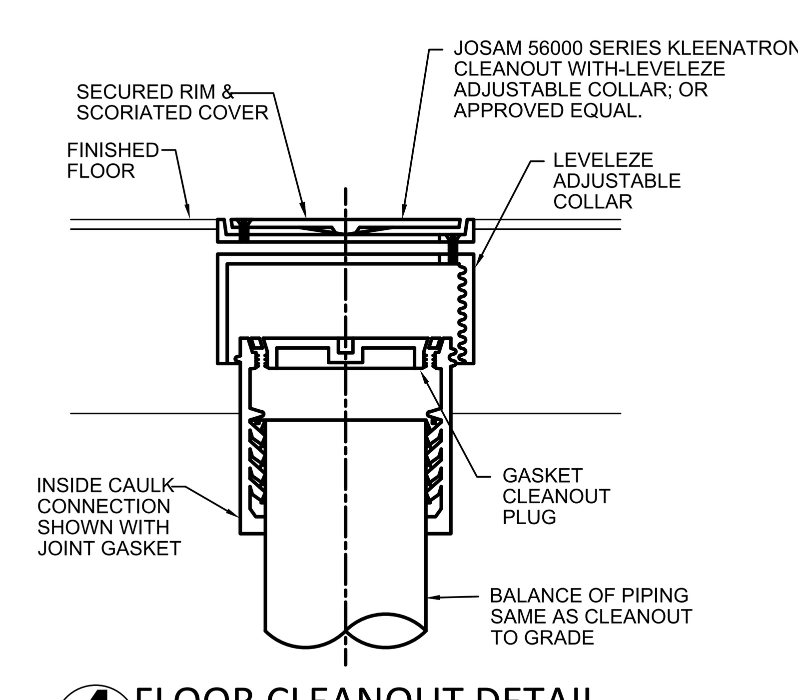
2 ELECTRIC WATER HEATER PIPING DETAIL
N.T.S.



UNIT MAKE AND MODEL SHALL BE FROM THE AHJ LIST OF APPROVED DEVICES. UNIT SHALL BE INSTALLED BY A LICENSED PLUMBER PER AHJ REQUIREMENTS. CONTRACTOR SHALL PROVIDE TESTING BY CERTIFIED BACKFLOW PREVENTION ASSEMBLY TESTER, WHO IS ALSO A LICENSED PLUMBER, UPON INSTALLATION, PER AHJ REQUIREMENTS.

DOUBLE DETECTOR CHECK VALVE ASSEMBLY ON SPRINKLER SERVICE
DOUBLE CHECK VALVE ASSEMBLY ON DOMESTIC SERVICE

3 BACKFLOW PREVENTER INSTALLATION DETAIL
N.T.S.



4 FLOOR CLEANOUT DETAIL
N.T.S.

Design America Engineering, Inc
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12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

PLUMBING COVER SHEET

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

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Architect:
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Scale:

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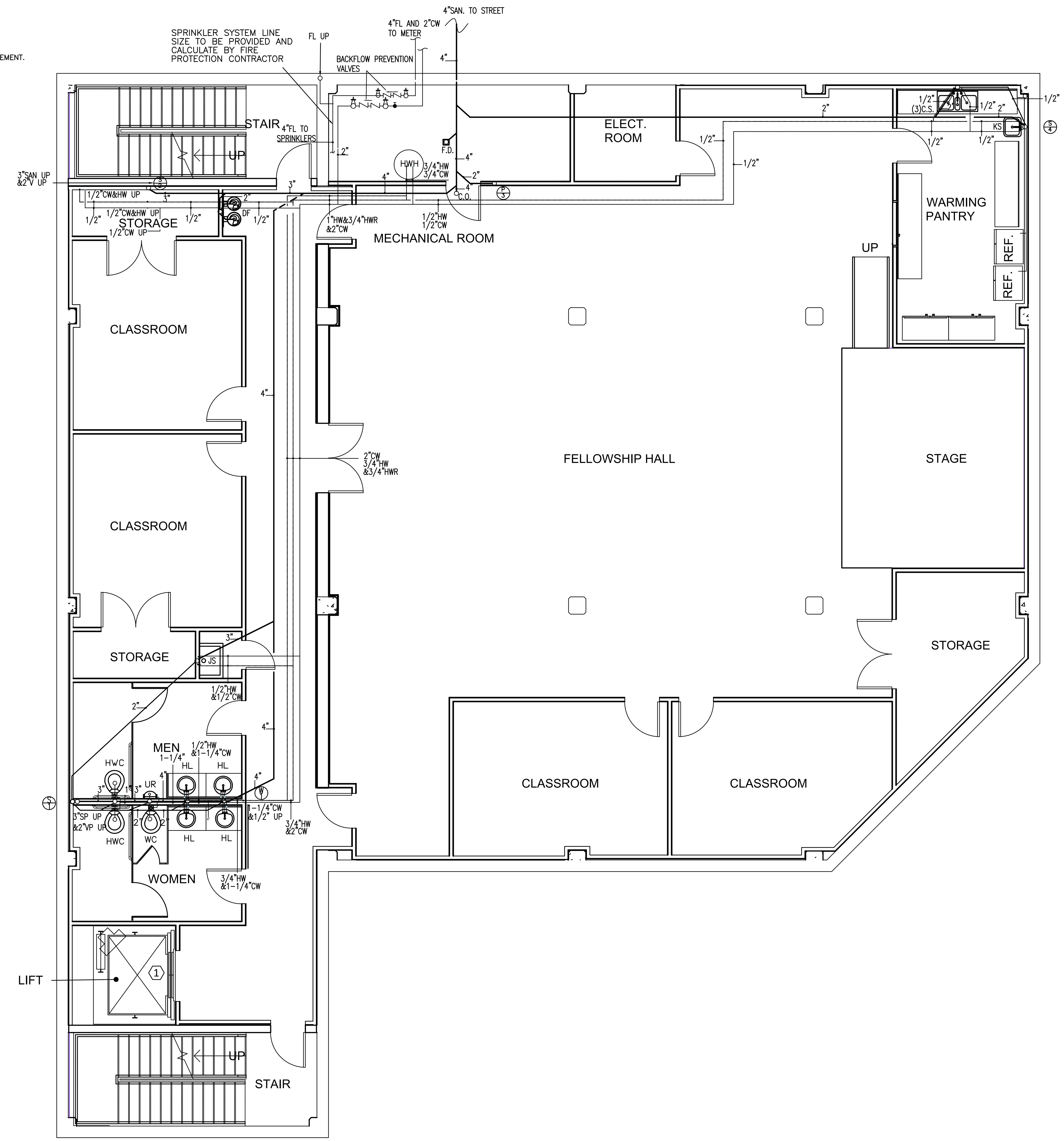
File No.

Drawing No.

P100

PLUMBING NUMBERED NOTES:

(1) COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.



1 PLUMBING FLOOR PLAN - BASEMENT PLAN

SCALE: 1/4"=1'-0"

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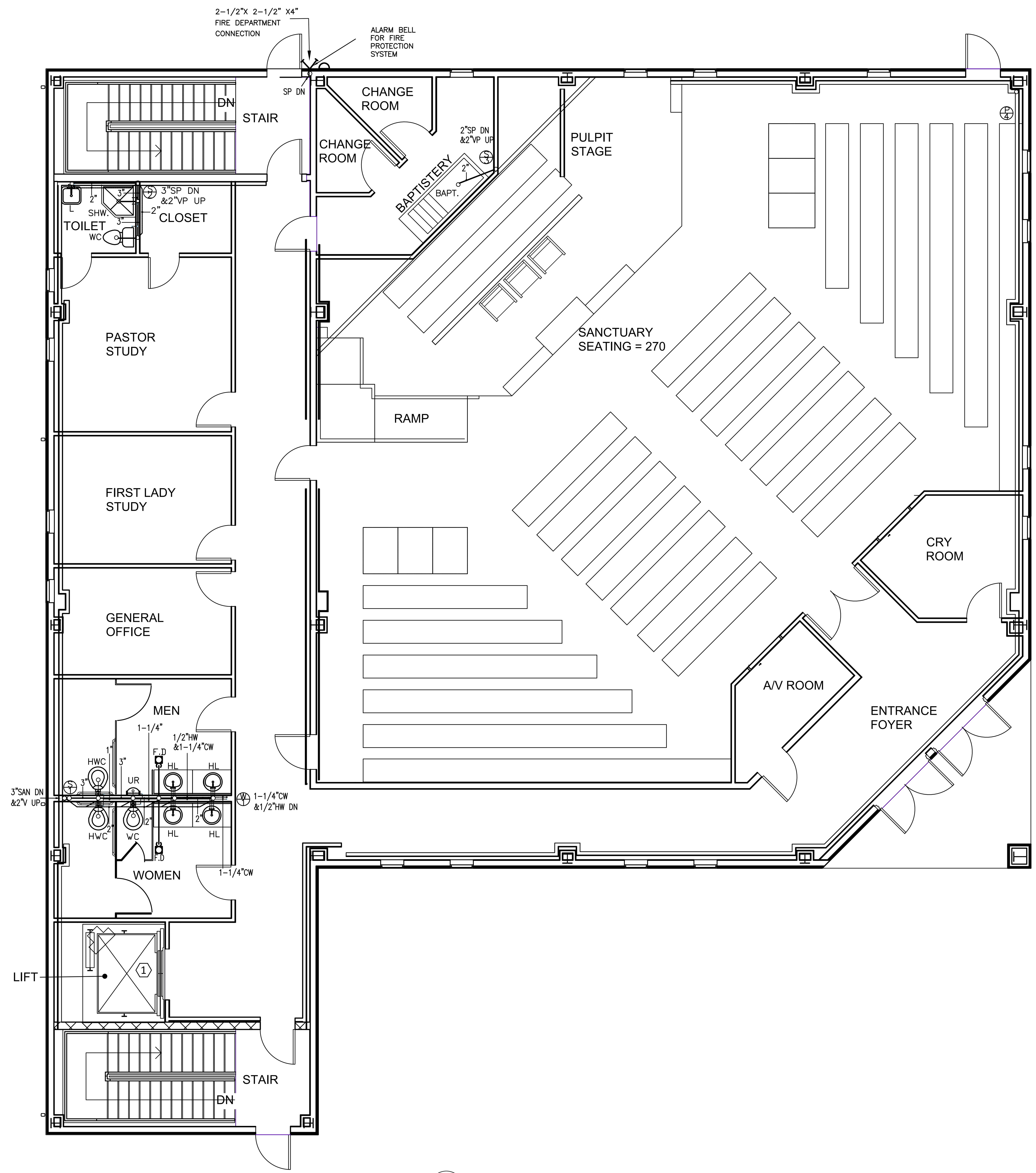

1 PLUMBING FLOOR PLAN - FIRST FLOOR

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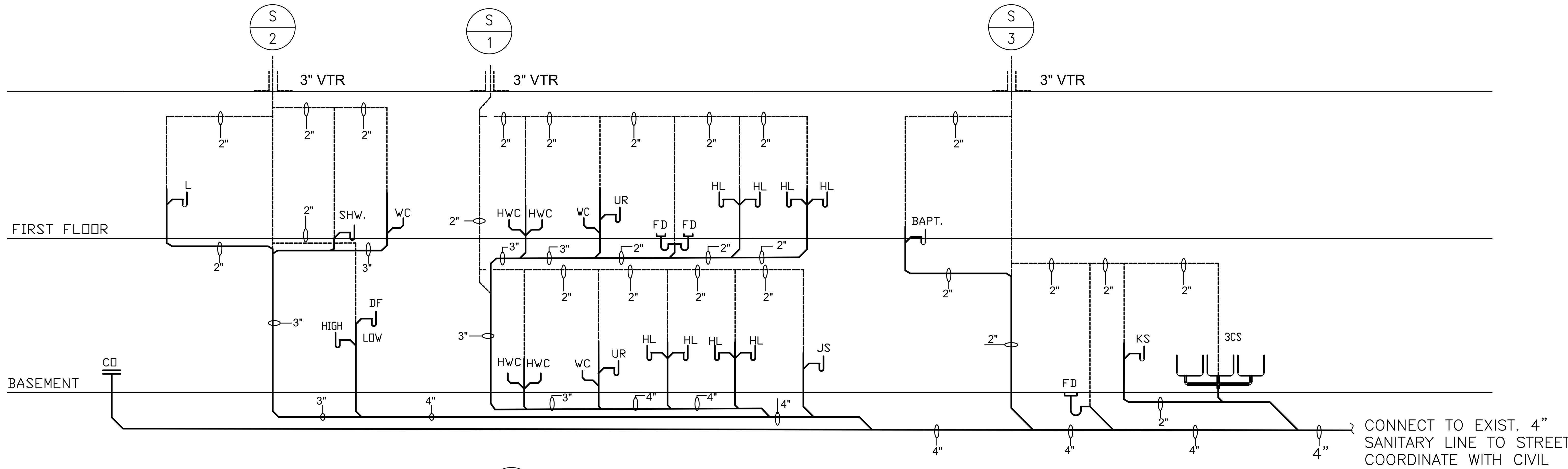
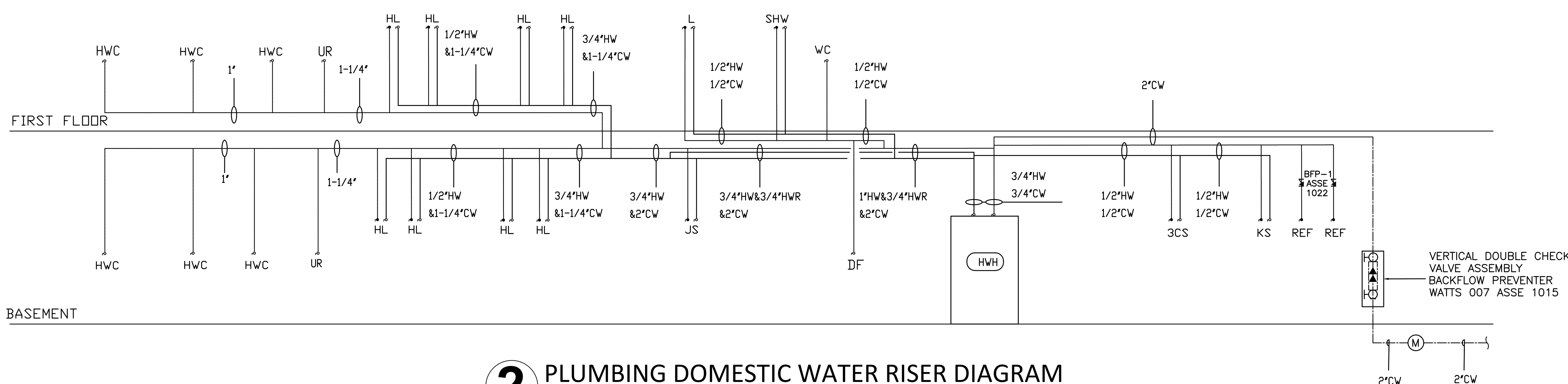
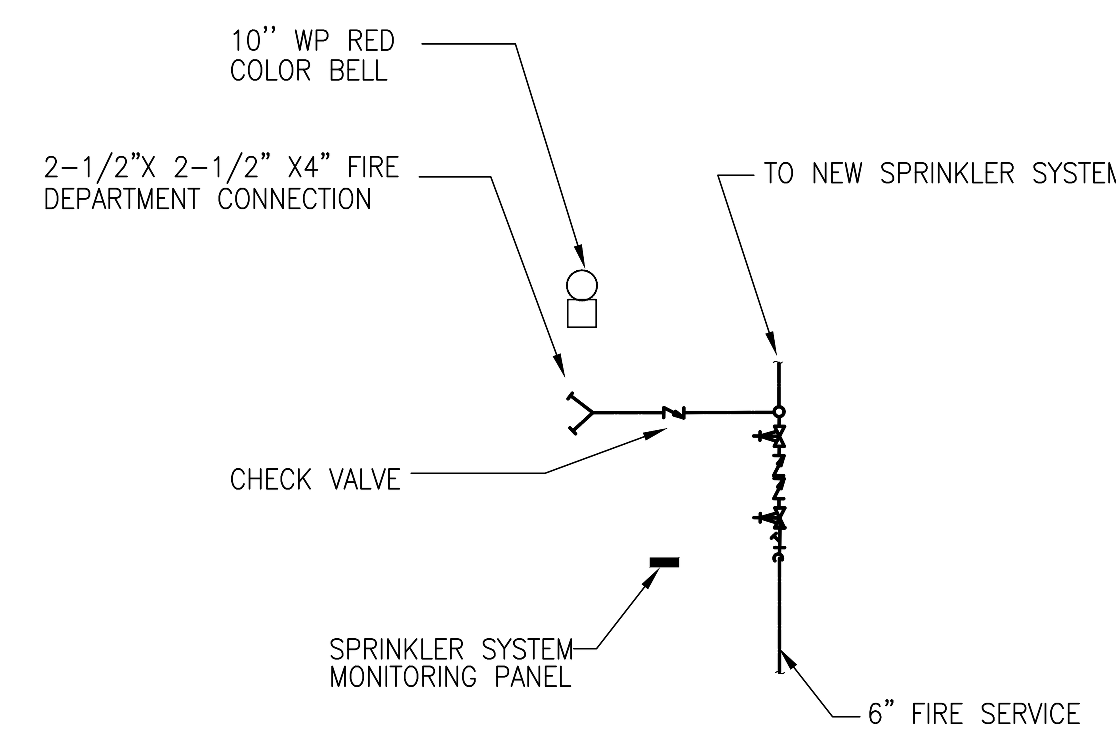


1 PLUMBING SANITARY RISER DIAGRAM
N.T.S.



2 PLUMBING DOMESTIC WATER RISER DIAGRAM
N.T.S.



3 FIRE SPRINKLER RISER DIAGRAM
N.T.S.

SPRINKLER SYSTEM SPECIFICATIONS

PART 1.00 GENERAL

1.02 WORK INCLUDED

A. FURNISH ALL PLANT, LABOR, EQUIPMENT, APPLIANCES, AND MATERIALS, AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM WHICH INCLUDES FIRE WATER SUPPLY,AND SPRINKLER, AS INDICATED, COMPLETE, AND IN STRICT ACCORDANCE WITH THIS SECTION OF THE SPECIFICATIONS AND APPLICABLE DRAWINGS AND REGULATIONS OF NFPA PAMPHLETS NO. 13, 14, AND 20.

B. THE SYSTEM SHALL BE INSTALLED BY AN EXPERIENCED FIRM REGULARLY ENGAGED IN THE INSTALLATION OF AUTOMATIC FIRE DETECTION AND EXTINGUISHING SYSTEMS IN ACCORDANCE WITH NFPA STANDARDS. THE ARCHITECT MAY REJECT ANY PROPOSED INSTALLER WHO CANNOT SHOW EVIDENCE OF SUCH QUALIFICATIONS.

C. SPRINKLER SYSTEM SHALL BE A WET PIPE, HYDRAULICALLY CALCULATED SYSTEM
THE ENTIRE BUILDING SHALL BE SPRINKLERED.

1.03 SHOP DRAWINGS

A. CONTRACTOR SHALL PROVIDE SIX SETS OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO SUPPORT THE DESIGN AND CUTS OR SECTIONS OF ALL DEVICES AND EQUIPMENT TO BE USED WITH THE SPRINKLER SYSTEM INSTALLATION AND SUBMIT TO THE FIRE MARSHAL FOR APPROVAL BEFORE SUBMITTING TO THE ARCHITCT-ENGINEER AND PRIOR TO FABRICATION. CONTRACTOR SHALL THEN SUBMIT THE APPROVED DRAWINGS WITH HYDRAULIC CALCULATIONS TO THE ARCHITECT-ENGINEER FOR APPROVAL, WHO WILL RETAIN ONE SET OF DRAWINGS AND CALCULATIONS FOR HIS RECORD AND RETURN THE OTHER COPIES TO THE CONTRACTOR.

B. PARTICULAR ATTENTION SHALL BE PAID TO THE COORDINATING OF SPRINKLER PLANS WITH MECHANICAL TRADES AND STRUCTURAL CONDITIONS. DRAINS SHALL BE INSTALLED WHEREVER REQUIRED TO PERMIT ELEVATION OF PIPE TO GAIN HEADROOM.

C. SUBMIT COMLETE SETS OF WORKING DRAWINGS OF EACH SPRINKLER SYSTEM, HYDRAULIC CALCULATIONS TO SHOW THE BASIS FOR THE DESIGN, GRAPHS, OR TABLES SHOWING THE PRESSURE-DISCHARGE RELATIONSHIP FOR THE SPRINKLER HEADS AND FULL DESCRIPTIVE DATA FOR PIPE, FITTINGS, GATE VALVES, BUTTERFLY VALVES, CHECK VALVES, SPRINKLER HEADS, HANGERS, DEVICES, MATERIALS AND ASSOCIATED EQUIPMENT FOR APPROVAL. PARTIAL SUBMISSIONS WILL NOT BE ACCEPTABLE. DESCRIPTIVE DATA SHALL BE ANNOTATED TO SHOW THE SPECIFIC MODEL, TYPE, AND SIZE OF EACH ITEM THE CONTRACTOR PROPOSES TO FURNISH. THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE "WORKING PLANS" AS SPECIFIED IN NFPA 13, 1-9.2. NO WORK SHALL BEGIN UNTIL THE DESIGN OF THE SYSTEM AND VARIOUS COMPONENTS HAVE BEEN APPROVED.

PART 2.00 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. ALL MATERIALS AND EQUIPMENT USED IN INSTALLATION OF SPRINKLER SYSTEM SHALL BE U.L.-LISTED AND APPROVED AND/OR FACTORY MUTUAL LABORATORIES LIST OF APPROVED EQUIPMENT-LISTED AND APPROVED. ALL MATERIALS AND EQUIPMENT SHALL BE THE LATEST DESIGN OF THE MANUFACTURER. FOLLOWING MATERIALS SHALL CONFORM TO THE RESPECTIVE SPECIFICATIONS AND OTHER REQUIREMENTS AS STATED THROUGHOUT THIS SECTION.

2.02 VALVES

A. ALL VALVES IN FIRE PROTECTION SYSTEM SHALL BE FM APPROVED. PROVIDE TAMPER SWITCHES WIRED TO FIRE ANNUNCIATOR PANEL ON THE OS&Y BUTTERFLY VALVES.

2.03 PIPING ACCESSORIES

A. ALL HANGERS MUST BE AN APPROVED TYPE BY NFPA PAMPHLET NO. 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.

1. NO CHAIN, WIRE OR PERFORATED BAND IRON WILL BE PERMITTED FOR HANGERS.

B. SLEEVES

1. SEE SECTION 15060 "PIPING" FOR TYPE AND INSTALLATION OF SLEEVES.

C. UNIONS IN IRON OR STEEL PIPING SHALL BE FERROUS METAL GROUND JOINT TYPE, HAVING BRASS SEATS. 2-1/2" CONNECTIONS AND LARGER SHALL BE FLANGED. NO WELDING WILL BE PERMITTED IN PIPING SYSTEM SERVING SPRINKLER.

D. FLOOR, WALL, AND CEILING PLATES SHALL BE PRESSED STEEL OR CAST IRON SPLIT PLATES, CHROME-PLATED. INSTALL ESCUTCHEONS THROUGHOUT.

E. WHERE REQUIRED FOR ACCESS TO EQUIPMENT, VALVES AND COCKS, AND WHERE NOT OTHERWISE SPECIFIED, METAL ACCESS DOORS AND FRAMES SHALL BE FURNISHED. PANELS SHALL BE MILCOR, SUITABLE FOR SURFACE IN WHICH INSTALLED AND FIRE-RATED EQUAL TO THE CONSTRUCTION IN WHICH INSTALLED, WHERE APPLICABLE.

F. DIELECTRIC UNIONS SHALL BE USED WHEN JOINING DISSIMILAR METALS.

G. CONTRACTOR SHALL FURNISH AND INSTALL IDENTIFICATION TAGS ON ALL CONTROL VALVES; TAGS SHALL BE BRASS WITH BLACK ENAMELNUMBERS.

H. PROVIDE VALVE CHART SHOWING LOCATION AND USE OF EACH VALVE.

2.04 SPRINKLER HEADS - GENERAL

A. SHALL BE REGULAR AUTOMATIC CLOSED-TYPE HEADS OF ORDINARY DEGREE TEMPERATURE RATING EXCEPT THAT SPRINKLER HEADS TO BE INSTALLED IN THE VICINITY OF HEATING EQUIPMENT SHALL BE OF THE TEMPERATURE RATINGS REQUIRED BY NFPA PAMPHLET NO. 13, AND HEADS INSTALLED IN LOCATIONS WHERE SPECIAL OCCUPANCIES INDICATE NEED FOR HIGH TEMPERATURE OR CORROSION-RESISTANT HEADS, THE PROPER HEADS SHALL BE DETERMINED AND PROVIDED BY SPRINKLER CONTRACTOR.

B. ALL HEADS SHALL BE CHROME-PLATED WITH CHROME-PLATE ESCUTCHEON PLATES EXCEPT AS OTHERWISE SPECIFIED.

C. ALL HEADS TO ROOMS WITHOUT CEILING SHALL BE OF STANDARD FACTORY BRASS FINISH WITH APPROPRIATE TEMPERATURE RATINGS TO FIT LOCATIONS.

D. CABINET: SPRINKLER HEADS AND SPRINKLER HEAD WRENCH SHALL BE PROVIDED IN A CABINET AT AN ACCESSIBLE LOCATION ADJACENT TO EACH VALVE. THE NUMBER AND TYPES OF EXTRA SPRINKLER HEADS SHALL BE AS SPECIFIED IN NFPA 13.

2.05 SPRINKLER HEADS

A. HEADS SHALL BE "STAR," "CENTRAL," "VIKING," "GRINNELL" AND/OR APPROVED EQUAL MANUFACTURER. ALL SPRINKLER HEADS SHALL BE U.L. APRPOVED AND CUTS SHALL BE REQUIRED TO ASSURE PROPER SPACING AND COVERAGE IN ACCORDANCE WITH THE APPROVAL LISTING. HEADS SHALL BE THE TYPE SHOWN BY THE DETAILS ON THE DRAWINGS.

2.06 DESIGN

A. SPRINKLER CONTRACTOR SHALL PROVIDE A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM AND SHALL CONFORM TO NFPA 13.

B. LOCATION OF SPRINKLER HEADS: HEADS IN RELATION TO CEILING AND THE SPACING OF SPRINKLER HEADS SHALL NOT EXCEED THAT PERMITTED BY NFPA 13 FOR HAZARD OCCUPANCY. THE SPACING OF SPRINKLERS ON THE BRANCH LINES SHALL BE ESSENTIALLY UNIFORM.

SPRINKLER NOTES:

1. THE ENTIRE BUILDING IS TO BE SPRINKLED. ALL WORK SHALL COMPLY STRICTLY TO NFPA 13.
2. FLOW AND RESIDUAL/STATIC PRESSURE TESTS SHALL BE PERFORMED BY CONTRACTOR AND RESULTS SUBMITTED FOR EVALUATION. POSSIBLE USE OF FIRE PUMP SUBJECT TO FINAL RESULTS.
3. CONTRACTOR SHALL PREPARE WORKING DRAWINGS AT A SCALE OF 1/8 INCHES SHOWING SIZE AND LOCATION OF THE SPRINKLER PIPING AND CEILING BEAM, OTHER PIPING, DUCTWORK AND EQUIPMENT FOR SUBMITTAL TO THE FIRE AUTHORITIES OF THE JURISDICTION.
4. PLANS SHALL BE SENT TO THE INSURANCE SERVICE ORGANIZATION OF THE JURISDICTION FOR THEIR RATING REVIEW.
5. PROVIDE SUPERVISORY SERVICE FROM AN APPROVED CENTRAL STATION. SYSTEM TO COMPLY WITH NFPA 13. FINAL LOCATION SHALL BE APPROVED BY THE ARCHITECT AND THE OWNER.
6. THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY DESIGNED. THE SYSTEM SHALL BE A "WET PIPE" SYSTEM THROUGHOUT CONDITIONED SPACES. WHERE UNHEATED SPACES ARE TO BE REQUIRED TO BE SPRINKLERED, COVERAGE SHALL BE THROUGH DRY HEAD.
7. CALCULATIONS AND SHOP DRAWINGS PREVIOUSLY APPROVED BY THE FIRE PROTECTION OF THE JURISDICTION SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR THEIR INSPECTION AND APPROVAL.
8. LOCATION OF FIRE DEPARTMENT CONNECTION, DISTANCE TO PUBLIC FIRE HYDRANT AND IDENTIFICATION PLATES SHALL BE IN AGREEMENT WITH ALL CORRESPONDING CODES AND REGULATIONS. FINAL APPROVAL OF FIRE AUTHORITY HAVING JURISDICTION IS REQUIRED.

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
Sam: 571-220-3239
DAENG2000@GMAIL.COM
www.daeng2000.com

Date:

Revisions:

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Project Title:
Iglesic Vida Nueva Unida International
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

PLUMBING RISER DIAGRAM

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structural Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: MARCH 22, 2021

Scale:

Drawn:

Checked:

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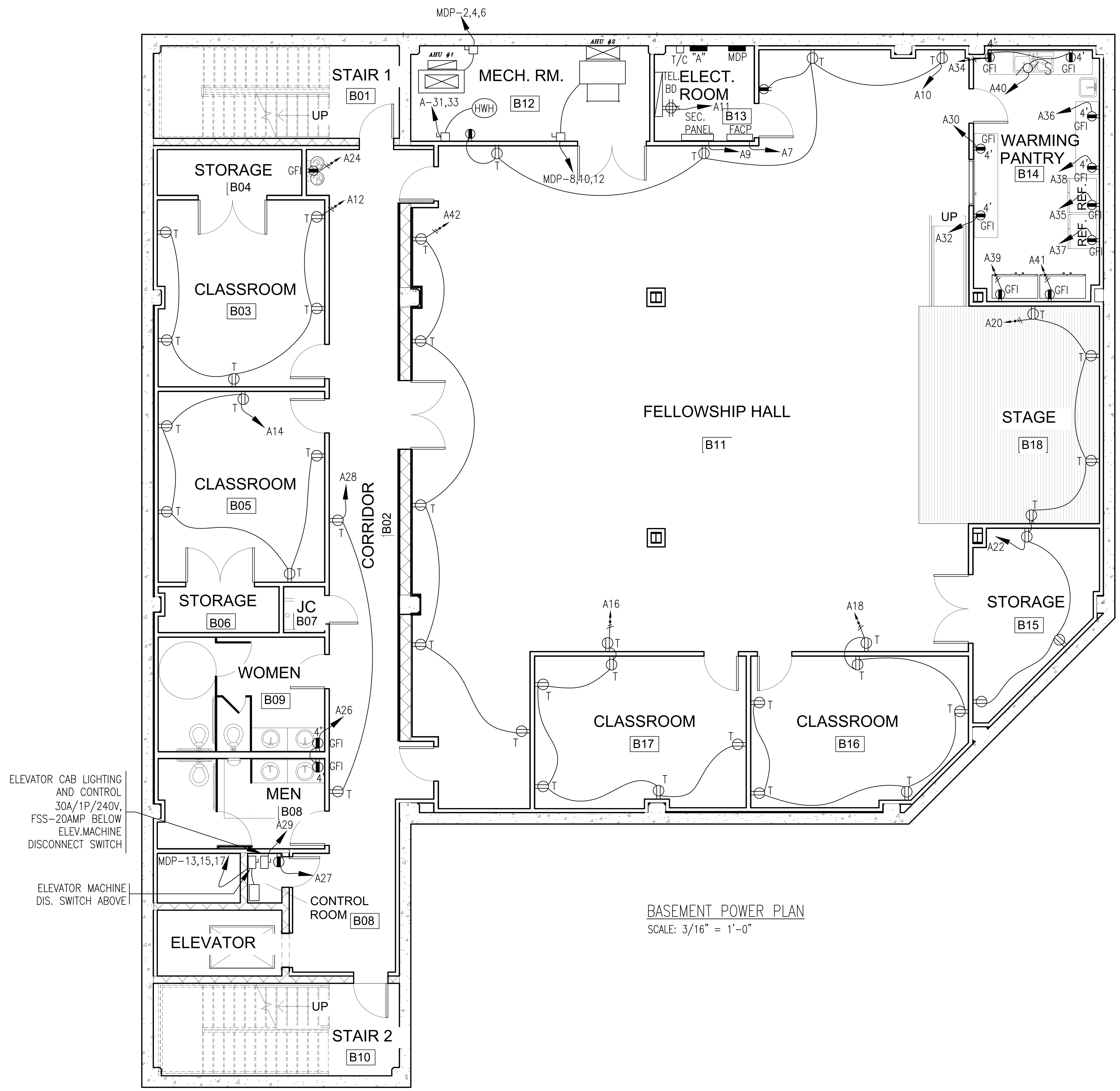

BASEMENT POWER PLAN
SCALE: 3/16" = 1'-0"

KEYED NOTES

1. LIFT DISCONNECT SWITCH/STARTER 100A/3P/240V, FSS-100AMP. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS.

MECHANICAL EQUIPMENT LOADS

LOAD	V	PH	FLA	MCA	MOCP	FUSE	DISC.SWITCH	NEMA	NOTES
HWH	208	1	38	48	50	50	60	1	8KW
AHU1	208	3	58	73	80	80	100	3R	
AHU2	208	3	77	96	100	100	100	3R	

ELEVATOR

V	PH	HP	FLA	MOTOR STARTING	FUSE	DISC.SWITCH	NEMA
208	3	3	12	18A	30	30	1

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12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BASEMENT POWER PLAN

German Pineda: Contractor
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Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
ALFONS : 703-909-6974
DAENG2000@GMAIL.COM
www.daeng2000.com

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: APRIL 21, 2022

Scale: *3/16" = 1'-0"*

Drawn: *Author UB*

Checked: *Checker SO*

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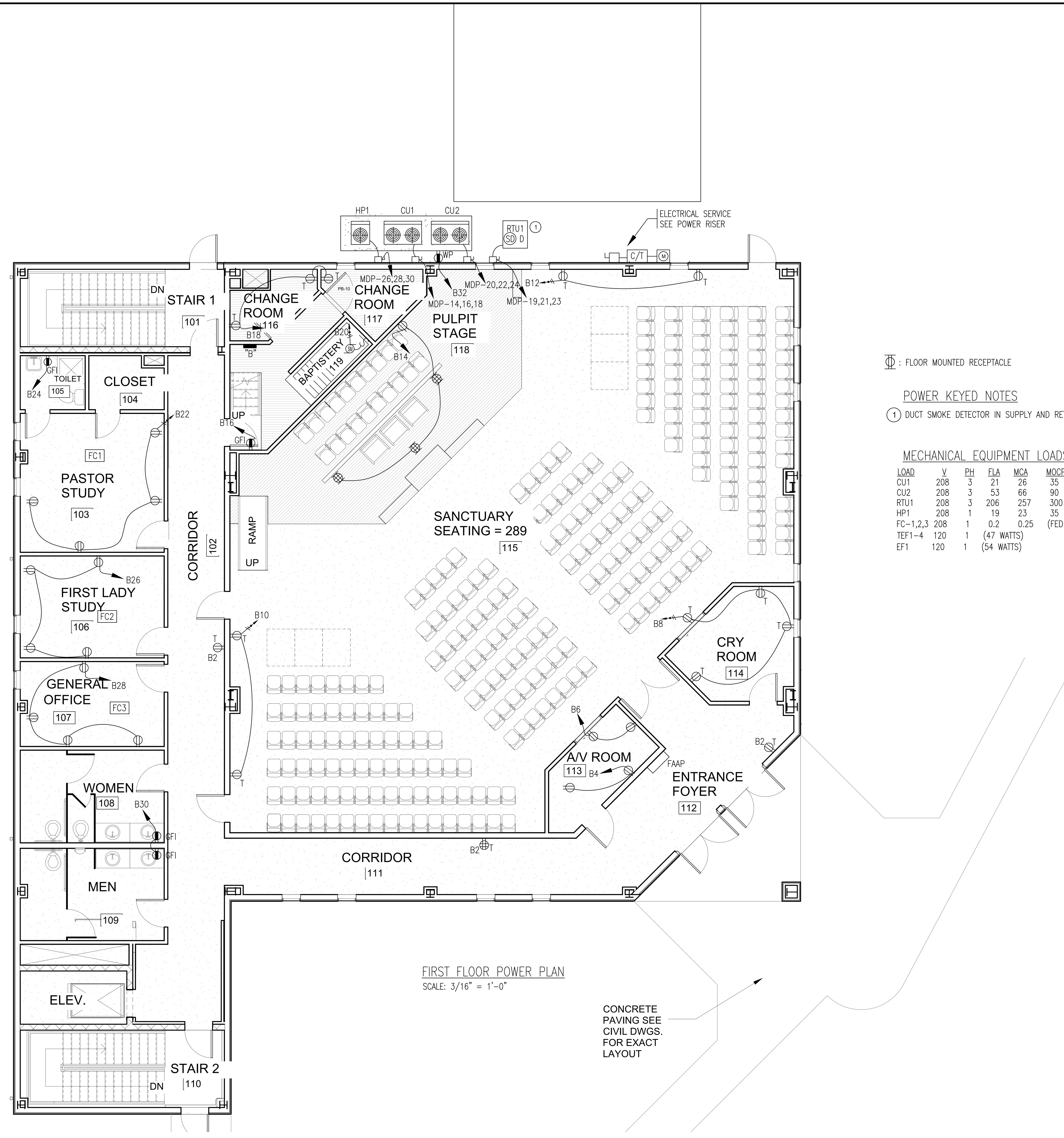

FIRST FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

⏀ : FLOOR MOUNTED RECEPTACLE

POWER KEYED NOTES

1. DUCT SMOKE DETECTOR IN SUPPLY AND RETURN DUCTS.

MECHANICAL EQUIPMENT LOADS

LOAD	V	PH	FLA	MCA	MOCP	FUSE	DISC.SWITCH	NEMA
CU1	208	3	21	26	35	35	60	3R
CU2	208	3	53	66	90	90	100	3R
RTU1	208	3	206	257	300	300	400	3R
HP1	208	1	19	23	35	35	60	3R
FC-1,2,3	208	1	0.2	0.25	(FED FROM HP1)			1
TEF1-4	120	1	(47 WATTS)					
EF1	120	1	(54 WATTS)					

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Structrual Engineer:
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6239 Executive Boulevard
North Bethesda, Md. 20886
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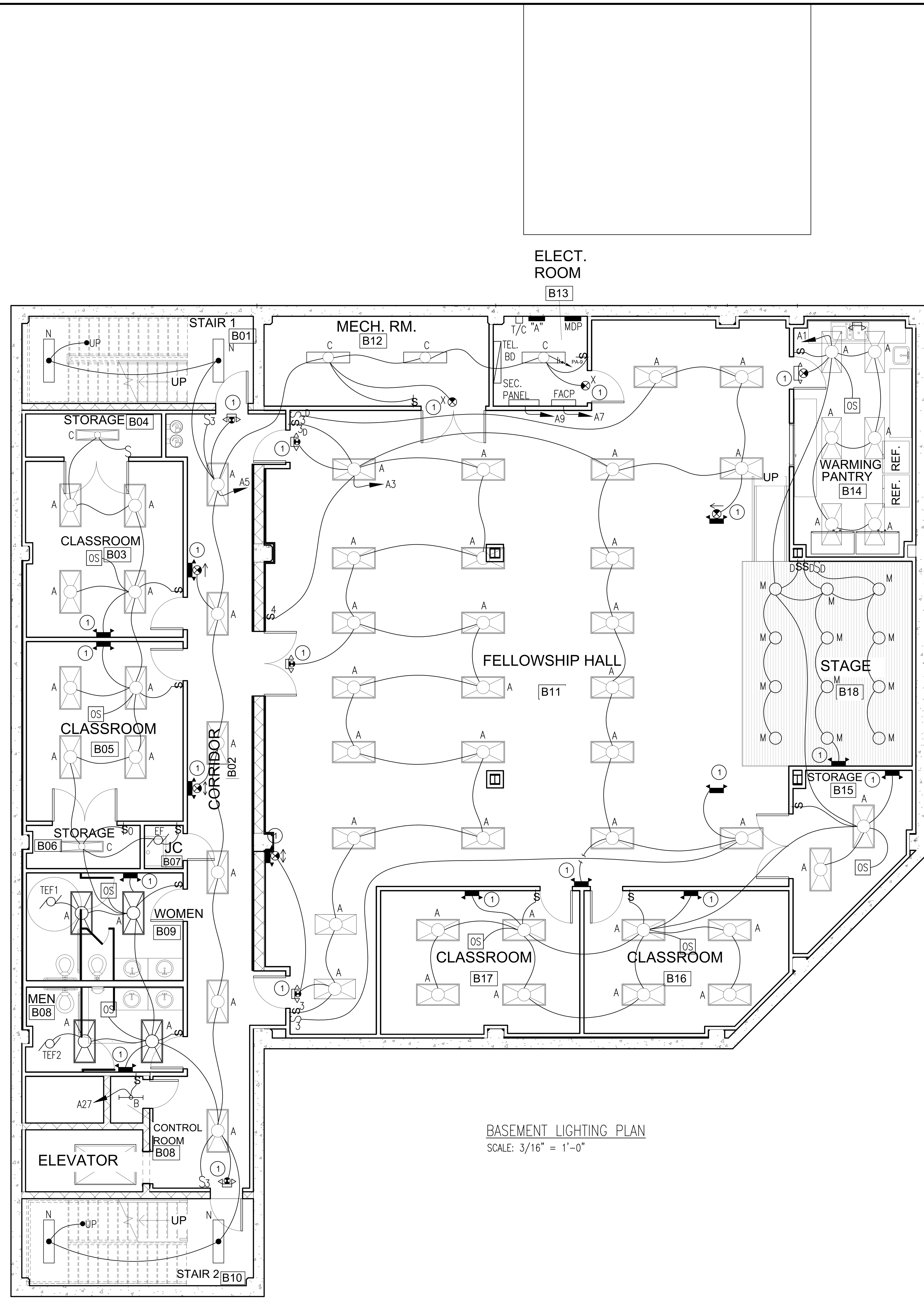
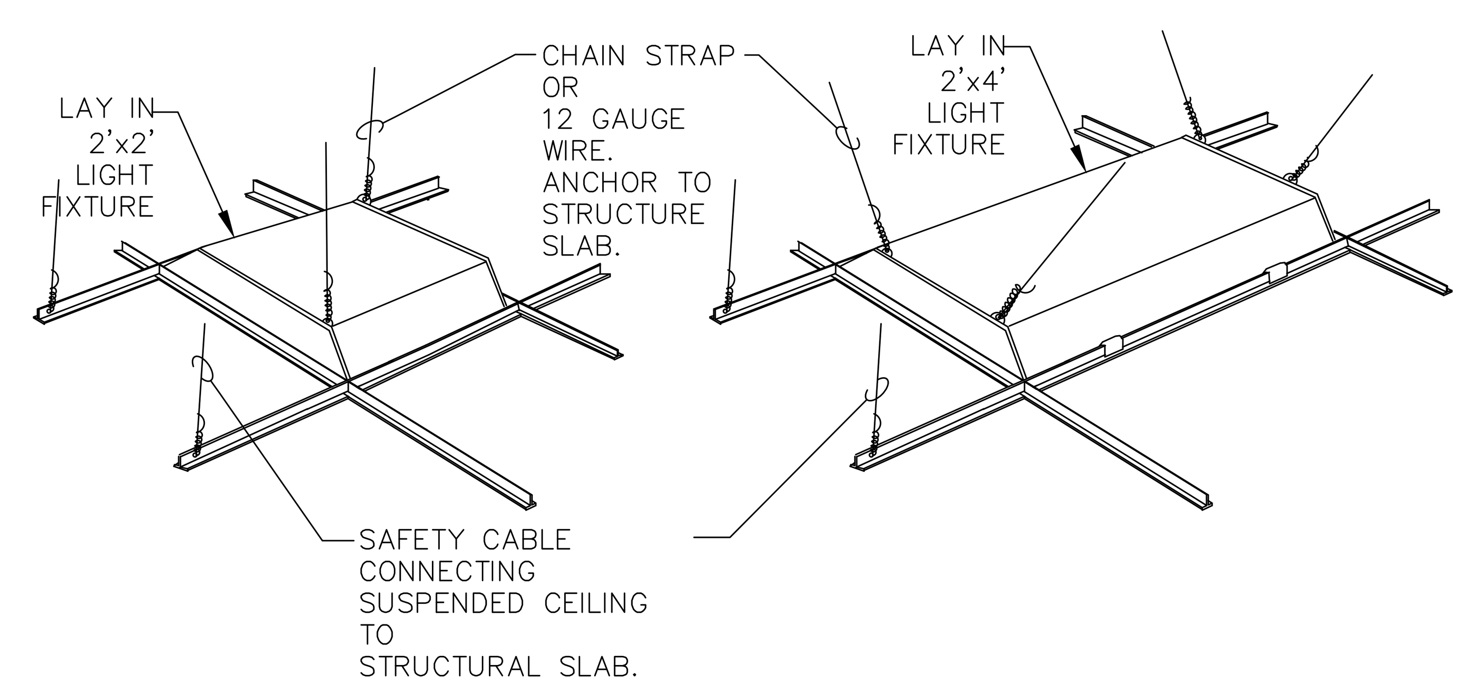


BASEMENT LIGHTING PLAN

SCALE: 3/16" = 1'-0"

LIGHTING KEYED NOTES

1. CONNECT AHEAD OF THE SWITCH.
2. 7-DAY PROGRAMMABLE DIGITAL TIME CLOCK.



SUSPENDED LIGHTING FIXTURE DETAIL

NOT TO SCALE

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SILVER SPRING, MARYLAND 20904

BASEMENT LIGHTING PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
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Clinton, Maryland 20735
Phone: 301-873-5093

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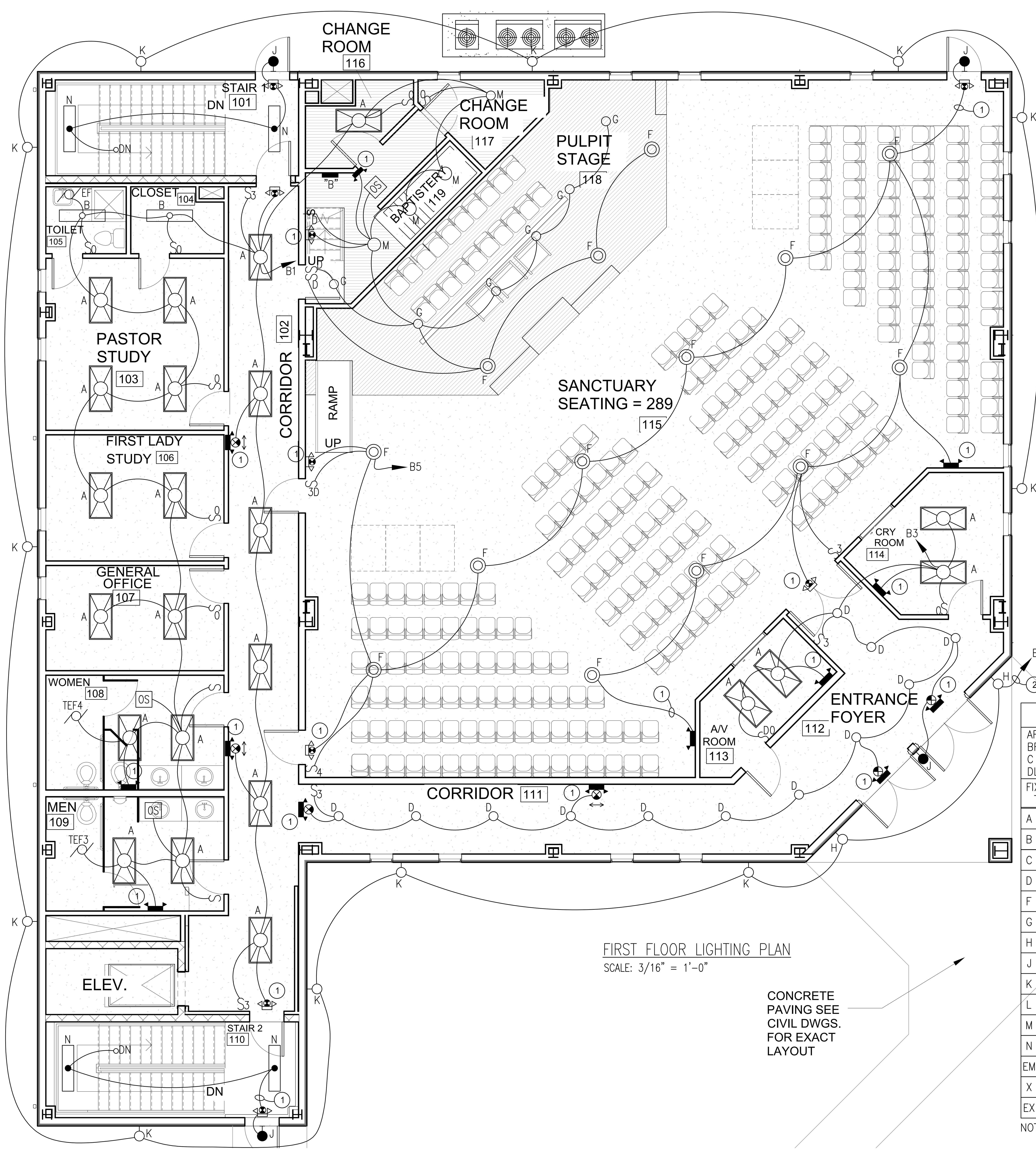

LIGHTING KEYED NOTES

1. CONNECT AHEAD OF THE SWITCH.
2. CONTROL VIA TIME CLOCK.

LIGHTING FIXTURE SCHEDULE

AFF ABOVE FINISHED FLOOR
BFC BELOW FINISHED CEILING
C CEILING
DL DOWN LIGHT
EB EMERGENCY BATTERY
PL POLE
P PENDANT
R RECESSED
S SURFACE
U UNIVERSAL
W WALL

FIXTURE TYPE	MANUFACTURER	CATALOG No.	LAMP No.	LAMP TYPE	VOLTS	MOUNTING	LOCATION	REMARKS	COUNT	LUMENS	L/W	HIGH EFFICACY Y,N
A	WILLIAMS	LPT24L43835SA12125 DIM120	1	31W LED	120	R	AS SHOWN	2'x4' LENSED LED	82	4306	137	Y
B	WILLIAMS	394L30835120	1	23W LED	120	S	AS SHOWN	1"x4' LENSED LED	2	3027	133	Y
C	WILLIAMS	LLM4L20835-SRD-OCCSS DRV120/EM7WRM	1	14W LED	120	S	AS SHOWN	LED LENSED STRIP WITH BUILT-IN OCCUPANCY SENSOR AND BATTERY	5	2027	145	Y
D	WILLIAMS	6PR-TLL15835DIMUNVLMOF CSIP-ATH-IC	1	17W LED	120	R	AS SHOWN	6" SHALLOW DOWN LIGHT IC RATED, AIR TIGHT	13	1720	103	
F	LIGHT SMITH	203-PT-HNA-LBP DIM	6 1	13W LED 41WC LED	120	P	SANCTUARY	PENDANT DECORATIVE LED 12' (1) CHAIN-UPLIGHT/DOWN LIGHT	14	29517	1301	Y
G	LIGHT SMITH	RCA0152-52W LED-120-M	1	52W LED	120	R	AS SHOWN	DIRECTIONAL STAGE LED	6	9300	179	Y
H	LIGHT SMITH	EX13604	1	13W LED	120	S	AS SHOWN	LED WALL SCONCE	2	1410	108	Y
J	WILLIAMS	EMER/DECO-DBR-LT-D	1	12W LED	120	S	EXTERIOR	WITH BUILT-IN BATTERY AND PHOTO CELL	4	780	65	Y
K	WILLIAMS	VWPHL607T3 DBZ-CGL-EM4WPCUNV	1	70W LED	120	S	EXTERIOR	LED SECURITY FLOOD LIGHT WITH PHOTO CELL AND CUT OFF SHIELD MOUNT@14'AFF	12	6611	95	Y
L	GE	EALP-03-2-SH-7 40-N-A-D1-DKBZ	1	172W LED	208	POLE	EXTERIOR	POLE MOUNTED LED 25 FT 4" SQUARE POLE	12	24100	140	
M	WILLIAMS	6ARL4082351CATH-DIM UNO-M-OF-CS-MW T-I	1	42W LED	120	R	STAGE	6" ADJUSTABLE DOWN LIHGHT IC RATED AIR TIGHT	16	3886	92	Y
N	WILLIAMS	SLF4L52835HIA-EM/10W-SBR10-SDSOUNV	1	37W LED	120	S	STAIRCASE	1'X4' WITH BUILT-IN BATTERY,OCCUPANCY SENSOR AND 50% STEP DIMMING	8	5092	137	Y
EM	WILLIAMS	EMER/MR-WH-D	1	3W LED	120/277	S	AS SHOWN	EMERGENCY WALL PACK	13	–	–	
X	WILLIAMS	EXIT-R-EM-WHT-D	1	3W LED	120/277	S	AS SHOWN	EMERGENCY EXIT LIGHT	2	–	–	
EX	WILLIAMS	EXIT/EM/LP-R-WHT-D	1	3W LED	120/277	S	AS SHOWN	EMERGENCY WALL PACK AND EXIT LIGHT	23	–	–	

NOTE: LEVITON IS BASIS OF DESIGN FOR CONTROLS (1) WITH WOODEN CROSS

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E103
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MAIN DISTRIBUTION PANELBOARD SCHEDULE

'MDP'

MAIN BUS: 800A,208Y/120V,3P
MAIN CKT. BRK.: 800A MCB
NEUTRAL: SOLID
AIC SYM: 42 KAIC
LUGS: STANDARD

LOCATION: ELECT. ROOM
STATUS: NEW
ENCLOSURE NEMA TYPE: 1
MOUNTING: FLOOR
FED FROM: NEW UTILITY

CKT. #	CKT. BRK.	LOAD (KVA)	LOAD DESCRIPTION	FEEDER	CKT. #	CKT. BRK.	LOAD (KVA)	LOAD DESCRIPTION	FEEDER
1	3/200	42	PANEL 'A'	4#3/0+6G IN 2-1/2" C	2	80/3	20.9	AHU1	3#4, 1#8GND., 1 1/4"C
3					4		-		
5					6		-		
7	3/200	19	PANEL 'B'	4#3/0+6G IN 2-1/2" C	8	100/3	28	AHU2	3#3, 1#6GND., 1 1/4"C
9					10		-		
11					12		-		
13	3/30	4	ELEVATOR	3#10, 1#10, GROUND, 1"C	14	35/3	7.6	CU1	3#8, 1#10GND., 1"C
15					16		-		
17					18		-		
19	3/300	74	RTU #1	3#350 MCM, 1#2GND., 3"C	20	90/3	19	CU2	3#3, 1#6GND., 1 1/4"C
21		-			22		-		
23		-			24		-		
25			SPACE		26	35/3	7	HP1	3#10, 1#10, GND, 1"C
27					28		-		
29					30		-		
31		-			32			SPACE	
33		-			34		-		
35					36		-		
37		-			38	-	-		
39		-			40				
41	-	-		-	42				
		150					82,500		

MAXIMUM DEMAND LOAD = 222 KVA **OR** 617 AMPS @ 208Y/120V, 3Ø, 4W

FLOOR PANEL SCHEDULE

'A'

BUS: 225A,208Y/120V,3Ø,4W
CKT. BKR.: M.L.O.
NEUTRAL: 100% RATED
AIC SYM: 22 KAIC

STATUS: NEW
ENCLOSURE NEMA TYPE: 1

LOCATION: ELECT. ROOM
MOUNTING: SURFACE
FED FROM: MDP PANEL

LOAD DESCRIPTION	CONDT.	WIRE	LOAD (VA)	C.B.(AMPS) TRIP	C.B.(AMPS) FR.	P0LE	CKT. #	PHASE ABC	CKT. #	P0LE	C.B.(AMPS) FR.	C.B.(AMPS) TRIP	LOAD (VA)	WIRE	CONDT.	LOAD DESCRIPTION
LIGHTS - CLASSROOM 1,2,STORAGE,STAGE,KITCHEN	3/4"	#12	1000	20	100	1	1		2	1	100	20	1080	#12	3/4"	RECEPTS.- CHOIR RM./MECH. RM./TOILET/TRUSTEES RM.
LIGHTS - FELLOWSHIP			750	20		1	3		4	1		20	720			RECEPTS.- SANCTUARY/OUTDOOR GFI/WP
LIGHTS - CLASSROOM 3,4,TOILETS,CORR.,STAIRCASES			950	20		1	5		6	1		20	1080			RECEPTS.- OUTDOOR GFI/WP
FACP			200	20		1	7		8	1		20	900			RECEPTS.- PULPIT/PIANO
SECURITY PANEL			200	20		1	9		10	1		20	1260			RECEPTS.- FELLOWSHIP HALL/ELEC. RM./MECH. RM.
TEL. BD.			500	20		1	11		12	1		20	900			RECEPTS.- CLASSR00M 4
SPACE				20		1	13		14	1		20	900			RECEPTS.- CLASSR00M 3
				20		1	15		16	1		20	1080			RECEPTS.- CLASSR00M 1, FELLOW SHIP
			-	20		1	17		18	1		20	1260			RECEPTS.- CLASSR00M 2, FELLOW SHIP
				20		1	19		20	1		20	1260			RECEPTACLE - STAGE
				20		1	21		22	1		20	1260			RECEPTACLES STORAGE BASEMENT
				20		1	23		24	1		20	1200			EWC
				20		1	25		26	1		20	1800			RECEPTACLES - TOILETS BASE
ELEV. MACHINE ROOM LTG, RECEPTACLE	1/2"	#12	1	20		1	27		28	1		20	1500			RECEPTACLES - CORRIDOR-BASE
ELEV.CAB LTS DIS.	1/2"	#12	.5	20		1	29		30	1		20	1500			RECEPTACLE - KITCHEN
HWH	3/4"	8	4000	50		2	31		32	1		20	1800			RECEPTACLE - KITCHEN
		-	4000	-		-	33		34			20	1200			RECEPTACLE - KITCHEN
REFRIGERATOR - KITCHEN		12	1000	20		1	35		36			20	1200			RECEPTACLE - KITCHEN
REFRIGERATOR - KITCHEN			1000	20		1	37		38			20	1200			RECEPTACLE - KITCHEN
REFRIGERATOR - KITCHEN			1000	20		1	39		40			20	800			DISPOSAL
REFRIGERATOR - KITCHEN			1000	20		1	41		42			20	1000			RECEPTACLE FELLOWSHIP
			15500	CONNECTED LOAD									25,840			

TOTAL COMPUTED LOAD = 41,340 VA
OR 115AMPS @ 208Y/120V, 3Ø, 4W

LIGHTING 2.7 * 1.25 = 3.37 KVA
RECEPTACLES 31 * 1 = 31 KVA
HWH 8 * 1 = 8.0 KVA
TOTAL 41.7 KVA 42.4 KVA
116 AMP 118 AMP

FLOOR PANEL SCHEDULE

'B'

BUS: 225A,208Y/120V,3Ø,4W
CKT. BKR.: M.L.O.
NEUTRAL: 100% RATED
AIC SYM: 22 KAIC

STATUS: NEW
ENCLOSURE NEMA TYPE: 1

LOCATION: BAPTISTERY
MOUNTING: RECESSED
FED FROM: MDP PANEL

LOAD DESCRIPTION	CONDT.	WIRE	LOAD (VA)	C.B.(AMPS) TRIP	C.B.(AMPS) FR.	P0LE	CKT. #	PHASE ABC	CKT. #	P0LE	C.B.(AMPS) FR.	C.B.(AMPS) TRIP	LOAD (VA)	WIRE	CONDT.	LOAD DESCRIPTION
LIGHTS - OFFICES,TOILETS,CORR.	3/4"	#12	1111	20	100	1	1		2	1	100	20	1000	#12	3/4"	RECEPTS.- CORR. - 1ST FLOOR
LIGHTS - CORR.,A/V,CRY STAGE			330	20		1	3		4	1		20	1440			RECEPTS.- A/V ROOM
LIGHTS - SANCTUARY			1309	20		1	5		6	1		20	1440			RECEPTS.- A/V ROOM
LIGHTS EXTERIOR 1	1	6	866	20		1	7		8	1		20	900			RECEPTS.- CRY ROOM, SANCTUARY
SPACE				20		1	9		10	1		20	800			RECEPTS.- SANCTUARY
				20		1	11		12	1		20	800			RECEPTS.- SANCTUARY
				20		1	13		14	1		20	1440			RECEPTS.- PULPIT
				20		1	15		16	1		20	600			RECEPTS.- BAPTISTERY
				20		1	17		18	1		20	500			RECEPTS.- CHANGE ROOM
				20		1	19		20	1		20	500			BAPTISTERY WATER PUMP
				20		1	21		22	1		20	800			RECEPTS.- PASTOR
							23		24				1000			RECEPTS.- PASTOR TOILET
							25		26				800			RECEPTS.- FIRST LADY
							27		28				800			RECEPTS.- GENERAL OFFICE
							29		30				1000			RECEPTS.- TOILETS
							31		32				500			RECEPTS.- EXTERIOR
							33		34							SPACE
							35		36							
							37		38							
							39		40							
							41		42							
			3616	CONNECTED LOAD									14320			

TOTAL COMPUTED LOAD = 17936 VA
OR 50 AMPS @ 208Y/120V, 3Ø, 4W

LIGHTING 3.6 * 1.25 = 4.5 KVA
RECEPTACLES 14.32 * 1 = 14.32 KVA
TOTAL 17.93 KVA 18.82 KVA
50 AMP 52 AMP

Date:

Revisions:

Certification:

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were PREPARED or APPROVED by me, and that I am a duly licensed professional Engineer under the laws of the state of Maryland.
License No. 47084, expiration date 08/06/2025

Project Title:
Iglesic Vida Nueva Unida Internacional
12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

PANEL SCHEDULE

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

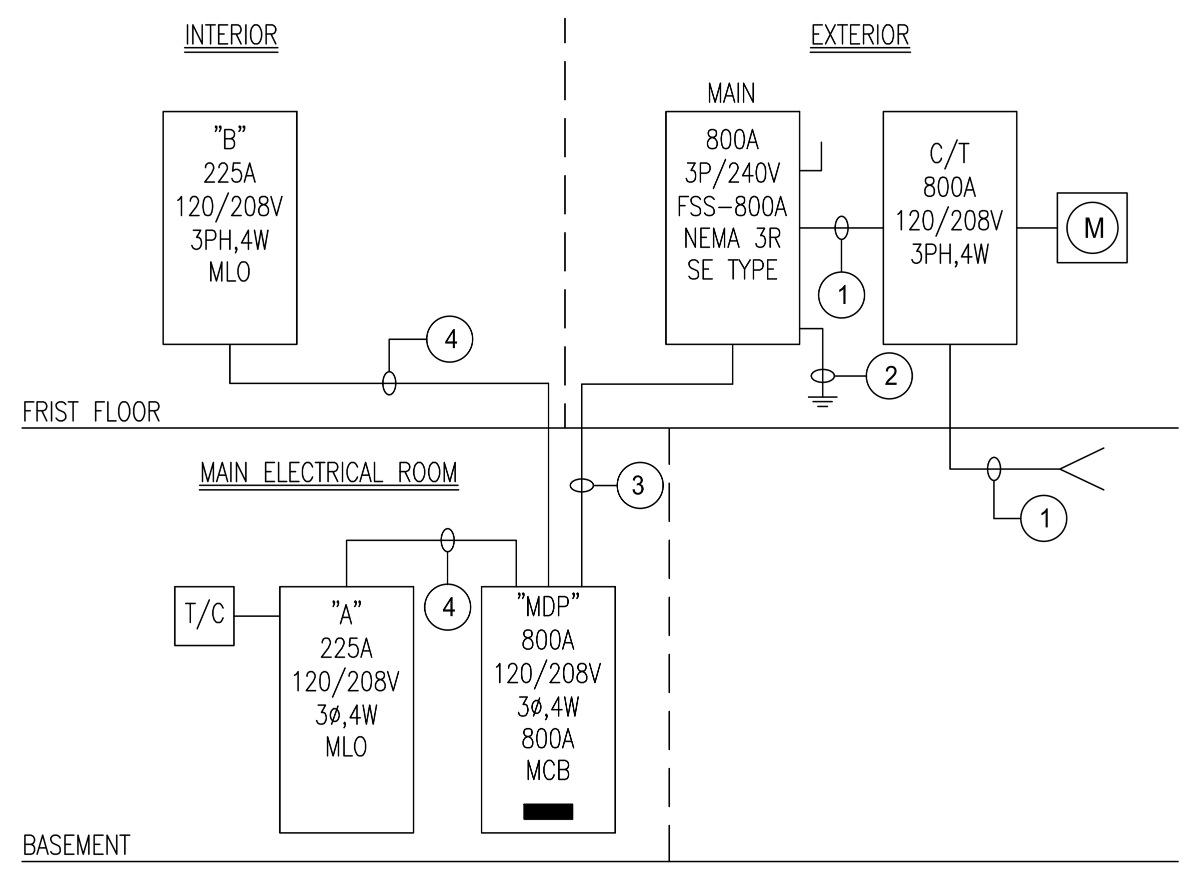
Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
ALFONS : 703-909-6974
DAENG2000@GMAIL.COM
www.daeng2000.com

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

Date: APRIL 21, 2022
Scale: *3/16" = 1'-0"*
Drawn: *Author UB*
Checked: *Checker SO*
File No. *C:\Users\phili\Documents\Iglesia VNUI\Iglesia VNUI.rvt*

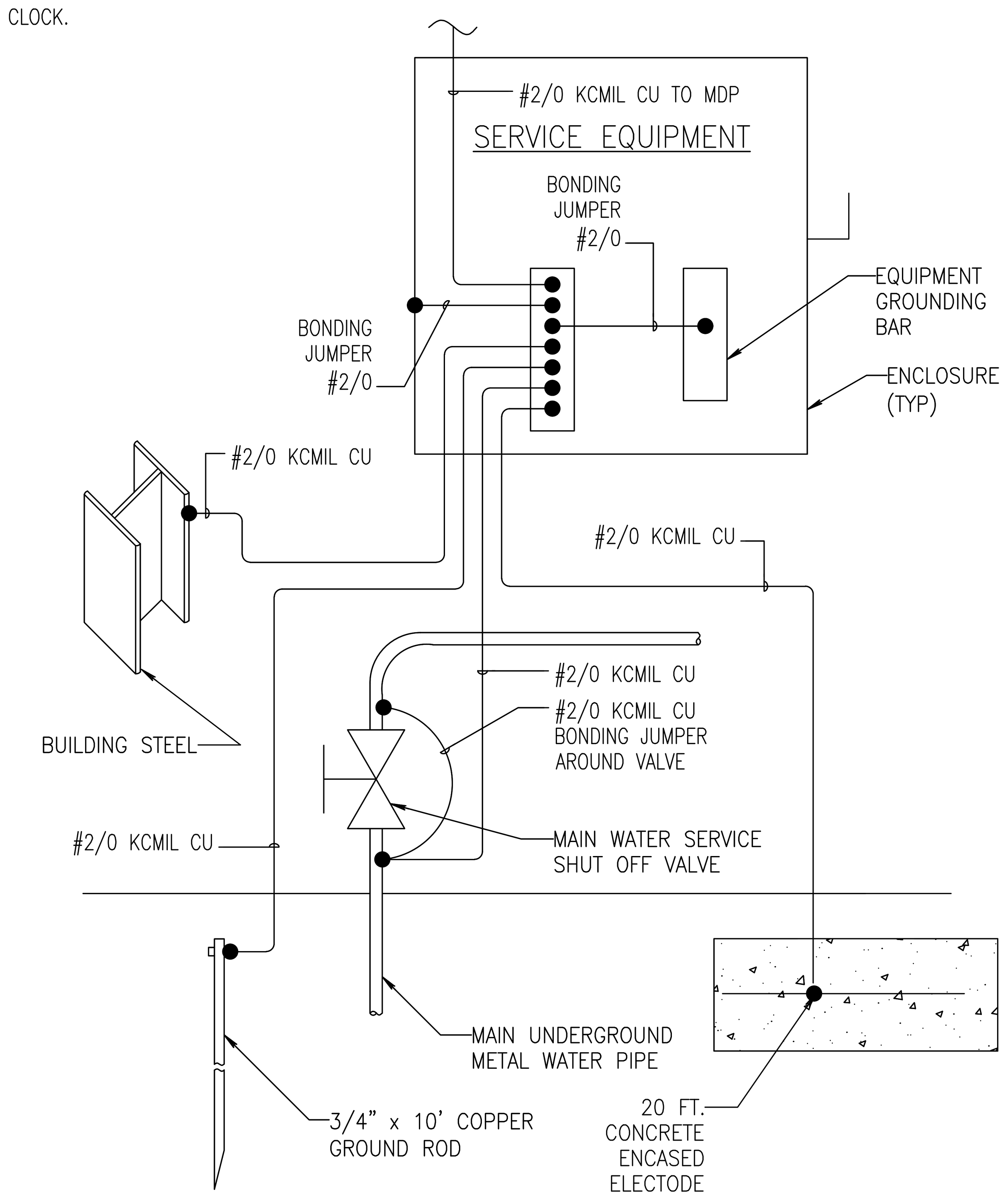
Drawing No.
E104
of



POWER RISER DIAGRAM
N.T.S

POWER RISER NOTES

1. 2 SETS OF 4#600 MCM IN 4" CONDUIT EACH.
2. NO. 2/0 GROUND PER NEC-250. SEE GROUNDING DETAIL.
3. 2 SETS OF 4#600 MCM, 1#2/0 GND. IN 4" CONDUIT EACH.
4. 4#3/0, 1#4 GND; 2½"C.
5. DIGITAL TIME CLOCK.



GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE

FEEDER SCHEDULE

NOMINAL AMPERE RATING	FEEDER TAG & MODIF.		LOAD DESCRIPTION	MINIMUM RACEWAY SIZE (INCHES)
20	20*	–	3-12 AWG; 1-12 AWG GND.	3/4"
		Y	3-12 AWG; 1-12 AWG N; 1-12 AWG GND.	
		K	CHANGE NEUTRAL TO 1-8 AWG	3/4"
		G	ADD 1-12 AWG IG	
30	30*	–	3-10 AWG; 1-10 AWG GND.	3/4"
		Y	3-10 AWG; 1-10 AWG N; 1-10 AWG GND.	
		K	CHANGE NEUTRAL TO 1-4 AWG	1"
		G	ADD 1-10 AWG IG	
40	40*	–	3-8 AWG; 1-10 AWG GND.	1"
		Y	3-8 AWG; 1-8 AWG N; 1-10 AWG GND.	
		K	CHANGE NEUTRAL TO 1-4 AWG	1"
		G	ADD 1-10 AWG IG	
55	55*	–	3-6 AWG; 1-10 AWG GND.	1"
		Y	3-6 AWG; 1-6 AWG N; 1-10 AWG GND.	
		K	CHANGE NEUTRAL TO 1-4 AWG	1.25"
		G	ADD 1-10 AWG IG	
70	70*	–	3-4 AWG; 1-8 AWG GND.	1.25"
		Y	3-4 AWG; 1-4 AWG N; 1-8 AWG GND.	
		K	CHANGE NEUTRAL TO 1-1/0 AWG	1.5"
		G	ADD 1-8 AWG IG	
100	100*	–	3-2 AWG; 1-6 AWG GND.	1.5"
		Y	3-2 AWG; 1-2 AWG N; 1-6 AWG GND.	
		K	CHANGE NEUTRAL TO 1-3/0 AWG	2"
		G	ADD 1-6 AWG IG	
130	130*	–	3-1 AWG; 1-6 AWG GND.	2"
		Y	3-1 AWG; 1-1 AWG N; 1-6 AWG GND.	
		K	CHANGE NEUTRAL TO 250 KCM	2.5"
		G	ADD 1-6 AWG IG	
150	150*	–	3-1/0 AWG; 1-6 AWG GND.	2"
		Y	3-1/0 AWG; 1-1/0 AWG N; 1-6 AWG GND.	
		K	CHANGE NEUTRAL TO 2-1/0 AWG	2.5"
		G	ADD 1-6 AWG IG	
175	175*	–	3-2/0 AWG; 1-4 AWG GND.	2"
		Y	3-2/0 AWG; 1-2/0 AWG N; 1-4 AWG GND.	
		K	CHANGE NEUTRAL TO 2-2/0 AWG	2.5"
		G	ADD 1-4 AWG IG	
200	200*	–	3-3/0 AWG; 1-4 AWG GND.	2"
		Y	3-3/0 AWG; 1-3/0 AWG N; 1-4 AWG GND.	
		K	CHANGE NEUTRAL TO 2-3/0 AWG	2.5"
		G	ADD 1-4 AWG IG	
225	225*	–	3-4/0 AWG; 1-2 AWG GND.	2.5"
		Y	3-4/0 AWG; 1-4/0 AWG N; 1-2 AWG GND.	
		K	CHANGE NEUTRAL TO 2-4/0 AWG	2.5"
		G	ADD 1-4 AWG IG	
250	250*	–	3-250 KCMIL; 1-2 AWG GND.	2"
		Y	3-250 KCMIL; 1-250 KCMIL N; 1-2 AWG GND.	
		K	CHANGE NEUTRAL TO 2-250 KCMIL	2.5"
		G	ADD 1-2 AWG IG	
300	300*	–	3-350 KCMIL; 1-1 AWG GND.	3"
		Y	3-350 KCMIL; 1-350 KCMIL N; 1-1 AWG GND.	
		K	CHANGE NEUTRAL TO 2-350 KCMIL	3"
		G	ADD 1-1 AWG IG	
380	380*	–	3-500 KCMIL; 1-1/0 AWG GND.	4"
		Y	3-500 KCMIL; 1-500 KCMIL N; 1-1/0 AWG GND.	
		K	CHANGE NEUTRAL TO 2-500 KCMIL	4"
		G	ADD 1-1/0 AWG IG	
420	420*	–	3-600 KCMIL; 1-1/0 AWG GND.	4"
		Y	3-600 KCMIL; 1-600 KCMIL N; 1-1/0 AWG GND.	
		K	CHANGE NEUTRAL TO 2-600 KCMIL	4"
		G	ADD 1-1/0 AWG IG	
500	500*	Y	(2 SETS OF) 3-250 KCMIL; 1-250 KCMIL N; 1-2 AWG GND.	(2)-3"
600	600*	Y	(2 SETS OF) 3-350 KCMIL; 1-350 KCMIL N; 1-1 AWG GND.	(2)-3.5"
800	800*	Y	(2 SETS OF) 3-600 KCMIL; 1-600 KCMIL N; 1-1/0 AWG GND.	(2)-4"
1000	1000*	Y	(3 SETS OF) 3-500 KCMIL; 1-500 KCMIL N; 1-2/0 AWG GND.	(3)-3.5"
1200	1200*	Y	(3 SETS OF) 3-600 KCMIL; 1-600 KCMIL N; 1-3/0 AWG GND.	(3)-4"
1600	1600*	Y	(4 SETS OF) 3-600 KCMIL; 1-600 KCMIL N; 1-4/0 AWG GND.	(3)-4"

FEEDER SCHEDULE DESIGNATIONS

THE ASTERISK ABOVE IS FILLED IN WITH ONE OR MORE OF THE FOLLOWING DESIGNATIONS ON THE RISER.
Y – THREE PHASE FOUR WIRE FEEDER.
K – THREE PHASE FEEDER WITH OVERSIZED NEUTRAL – DOUBLE 200% NEUTRAL.
G – THREE PHASE FEEDER WITH ISOLATED GROUND.
VD – FEEDER SIZED FOR VOLTAGE DROP.

NOTES:

1. ALL AMPACITIES ARE BASED ON 75° C TEMPERATURE RATING OF COPPER CONDUCTOR AS LISTED IN THE NATIONAL ELECTRIC CODE.
2. FEEDERS MAY HAVE A COMBINATION OF OVERSIZED NEUTRAL AND ISOLATED GROUND (DESIGNATION K AND G). REFER TO RISER FOR FEEDER DESIGNATIONS.

Date:

Revisions:

Certification:

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were PREPARED or APPROVED by me, and that I am a duly licensed professional Engineer under the laws of the state of Maryland.
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Project Title:
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POWER RISER DIAGRAM AND GROUNDING DETAIL

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File No. C:\Users\phil\Documents\Iglesia VNUI\Iglesia VNUI.rvt

Drawing No.
E105
of

COM*check* Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Iglesia Vida church
Location:	Silver Spring, Maryland
Climate Zone:	4a
Project Type:	New Construction

Construction Site: 12450 Old Columbia Pike Silver Spring, MD 20904 | Owner/Agent: | Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Building Area	Floor Area
1-Church (Religious Building) : Nonresidential	12500

Envelope Assemblies

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Envelope TBD: All building area types must be assigned to at least one envelope assembly

COM*check* Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Iglesia Vida church
Project Type:	New Construction

Construction Site: 12450 Old Columbia Pike Silver Spring, MD 20904 | Owner/Agent: | Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Church (Religious Building)	12500	0.85	10575
		Total Allowed Watts =	10575

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Church (Religious Building)				
LED 1: A: LED Panel 33W:	1	82	31	2542
LED 2: B: LED Panel 19W:	1	2	23	46
LED 3: C: LED Panel 19W:	1	5	14	70
LED 4: D: LED Panel 19W:	1	13	17	221
LED 5: G: LED A Lamp 13W:	8	14	119	1666
LED 6: M: LED Panel 41W:	1	16	42	672
LED 7: N: LED Panel 36W:	1	8	37	296
			Total Proposed Watts =	5513

Interior Lighting PASSES: Design 48% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design 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 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version 4.1.1.0
Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Iglesia Vida church
Project Type:	New Construction
Exterior Lighting Zone	2 (Residential mixed use area)

Construction Site: 12450 Old Columbia Pike Silver Spring, MD 20904 | Owner/Agent: | Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
walkway (Walkway >= 10 feet wide)	12100 ft2	0.1	Yes	1210
parking (Parking area)	19400 ft2	0.04	Yes	776
			Total Tradable Watts (a) =	1986
			Total Allowed Watts =	1986
			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 Fixtures	D Fixture Watt.	E (C X D)
walkway (Walkway >= 10 feet wide 12100 ft2): Tradable Wattage				
LED 1: H: LED A Lamp 13W:	1	2	13	26
LED 2: J: LED Panel 19W:	1	4	12	48
LED 3: K: LED Panel 70W:	1	12	70	840
parking (Parking area 19400 ft2): Tradable Wattage				
LED 4: K: LED Panel 110W:	1	8	172	1376
			Total Tradable Proposed Watts =	2290

Exterior Lighting PASSES: Design 4% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design 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 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version 4.1.1.0
Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Iglesia Vida church
Location:	Silver Spring, Maryland
Climate Zone:	4a
Project Type:	New Construction

Construction Site: 12450 Old Columbia Pike Silver Spring, MD 20904 | Owner/Agent: | Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity System Type & Description

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design 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 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version 4.1.1.0
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% 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 [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	
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	

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
C405.2.2.2 [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	
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, 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	
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 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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
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) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) 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, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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, C405.2.3.1, C405.2.3.2 [EL23][2]	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	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [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	
C405.2.5 [EL28][null]	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	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐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	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	
C405.4.1 [FI18][1]	Interior installed lamp and fixture 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 Interior Lighting fixture schedule for values.*
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.*
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐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)

Date:

Revisions:

Certification:

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were PREPARED or APPROVED by me, and that I am a duly licensed professional Engineer under the laws of the state of Maryland.
License No. 47084, expiration date 08/06/2025

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COMCHECK

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Clinton, Maryland 20735
Phone: 301-873-5093

Date: APRIL 21, 2022

Scale: *3/16" = 1'-0"*

Drawn: *Author UB*

Checked: *Checker SO*

File No. *C:\Users\phil\Documents\Iglesia VNUI\Iglesia VNUI.rvt*

Drawing No.

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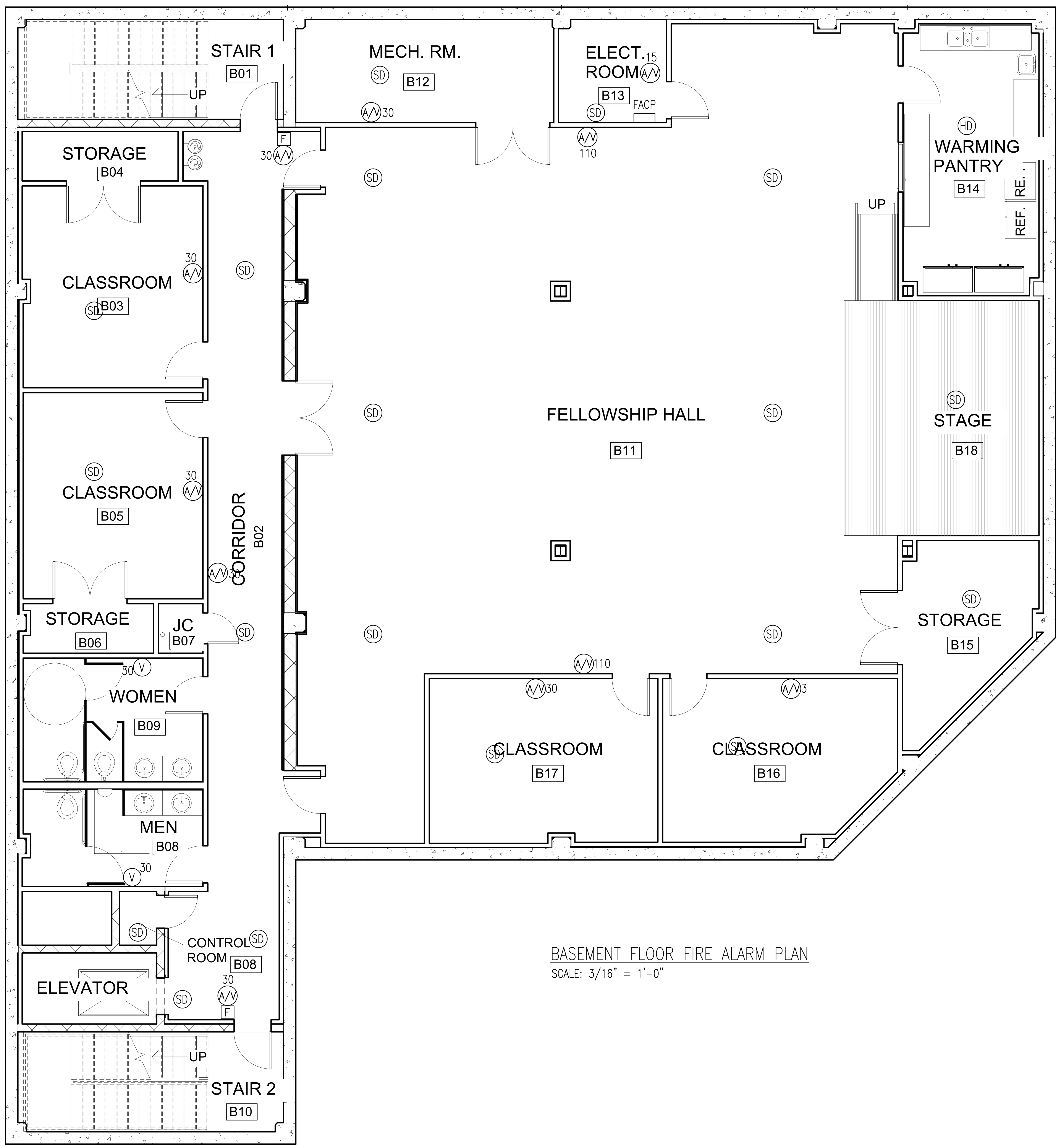

BASEMENT FLOOR FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

Date:

Revisions:

Certification:

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were PREPARED or APPROVED by me, and that I am a duly licensed professional Engineer under the laws of the state of Maryland.
License No. 47084, expiration date 08/06/2025

Project Title:

Iglesic Vida Nueva Unida Internacional

12450 OLD COLUMBIA PIKE
SILVER SPRING, MARYLAND 20904

BASEMENT FLOOR FIRE ALARM PLAN

German Pineda: Contractor
13624 North Gate Drive
Silver Spring, Md. 20904
Phone: 301-873-7092

Structrual Engineer:
MGV Consul. Struct. Engineers
6239 Executive Boulevard
North Bethesda, Md. 20886
Phone: 301-816-0648

Design America Engineering, Inc
MEP Consulting Engineers
14080 Red River Drive
Centerville, VA 20121
ALFONS : 703-909-6974
DAENG2000@GMAIL.COM
www.daeng2000.com

Architect:
Philip Aaron Lacy, Architects
9615 Geena Nicole Drive
Clinton, Maryland 20735
Phone: 301-873-5093

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Drawing No.

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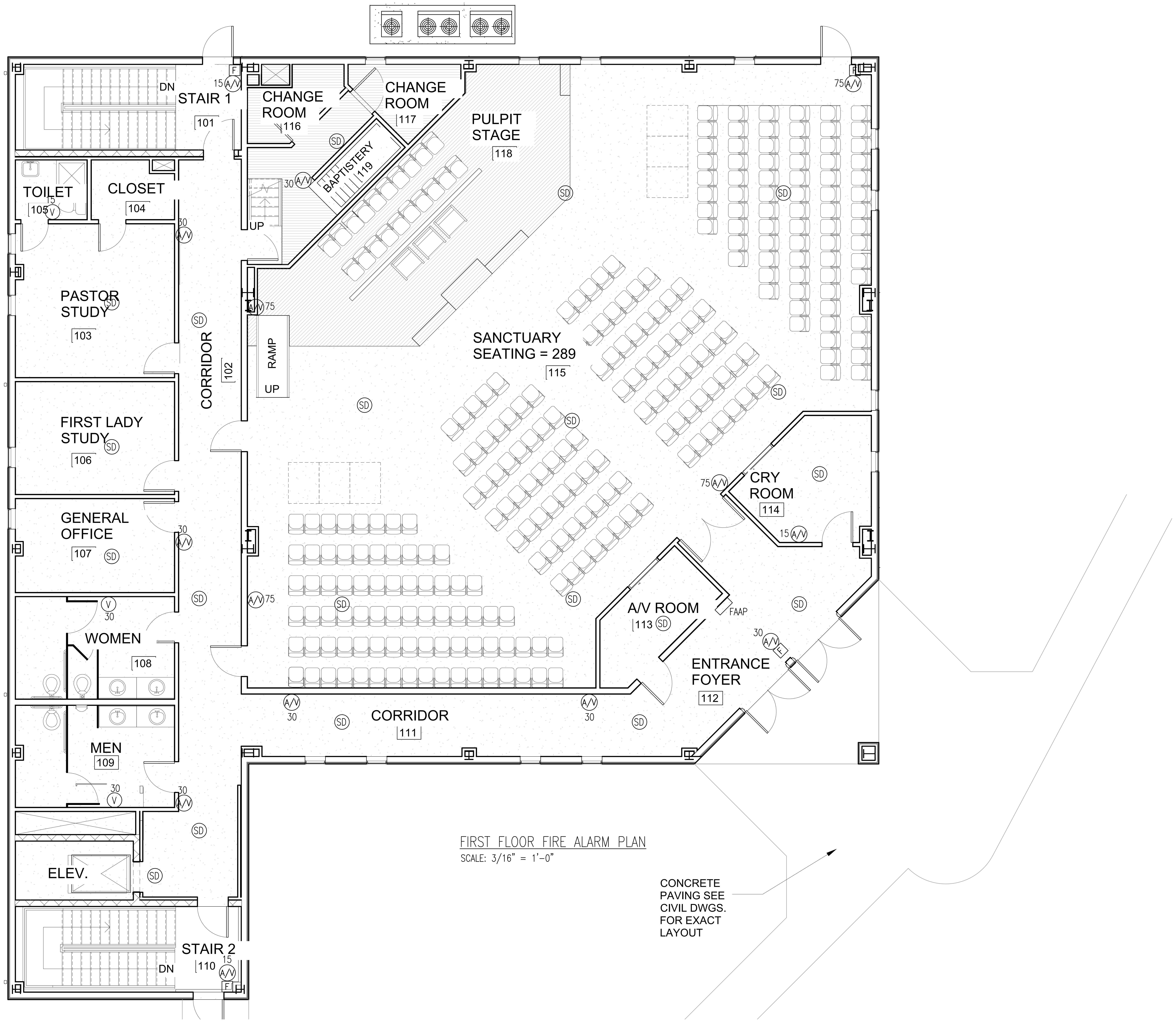

FIRST FLOOR FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

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Drawing No.
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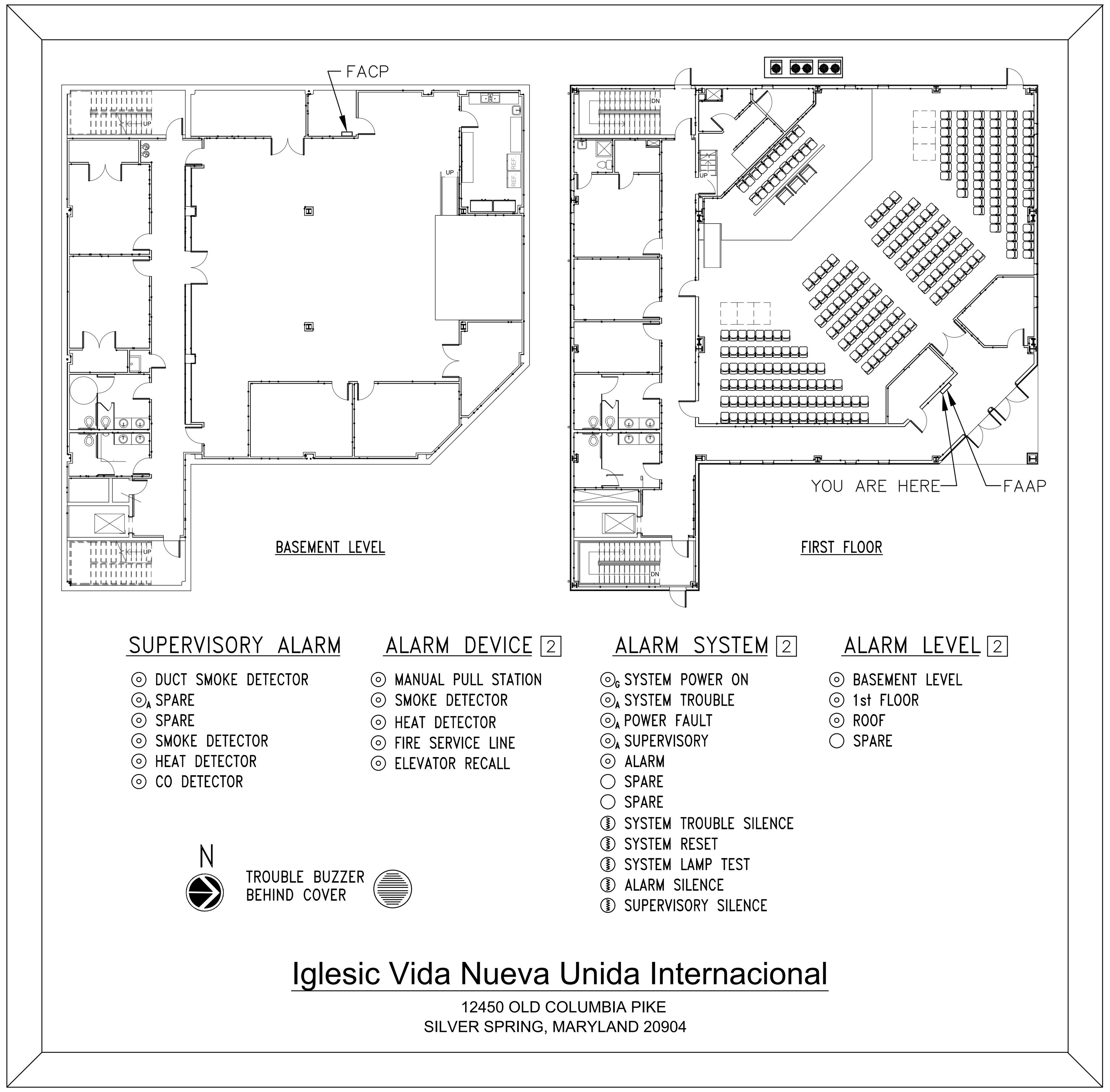
of



FIRE ALARM ANNUNCIATOR PANEL 1 4

NO SCALE

FIRE ALARM ANNUNCIATOR KEYED NOTES:

1. PROVIDE U.L. LISTED FOR USE ANNUNCIATOR.
2. ENGRAVE AND GROUP ANNUNCIATION LIGHTS BY FUNCTION AS SHOWN. PROVIDE SEPARATE "DEVICE" AND "SYSTEM" HEADERS FOR EACH GROUP AS SHOWN.
3. PROVIDE BRUSHED STAINLESS STEEL TRIM AT ANNUNCIATOR. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OF ANNUNCIATOR.
4. IN NECESSARY, THE CONTRACTOR SHALL OBTAIN FLOOR PLAN FROM THE ARCHITECT FOR USE IN ENGRAVING PANEL.

FIRE ALARM ANNUNCIATOR GRAPHIC KEY

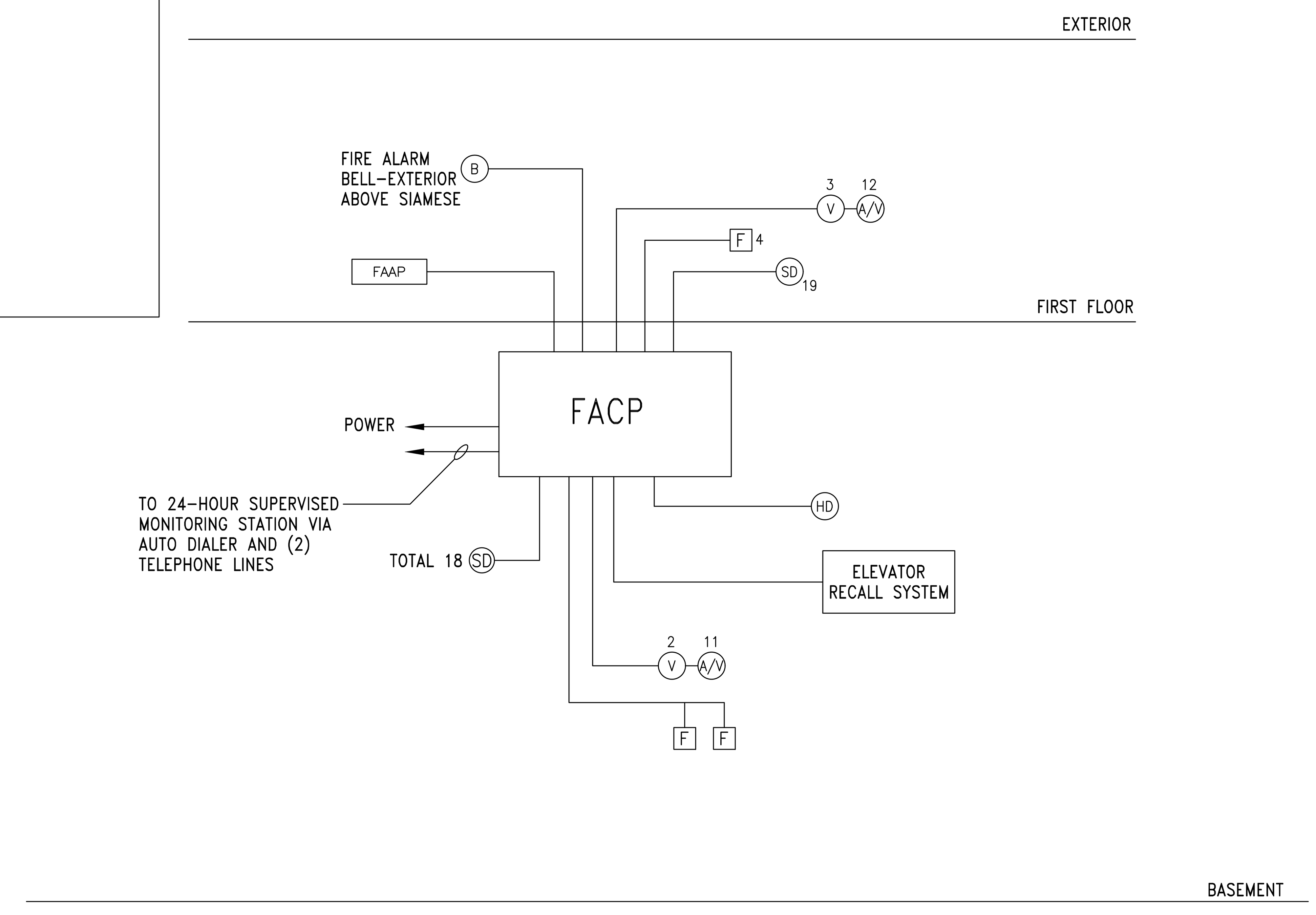
- RED LED INDICATOR
- GREEN LED INDICATOR
- YELLOW (AMBER) LED INDICATOR
- KEY SWITCH
- MOMENTARY CONTACT PUSHBUTTON (N.O.)
- ZONE SEPARATION

FIRE ALARM SYSTEM GENERAL NOTES:

1. WHERE CONDUIT AND CABLE PENETRATE FIRE RATED FLOORS AND WALLS, PROVIDE U.L. LISTED FIRE STOPPING SYSTEM FOR EACH PENETRATION. GROUP CABLES/CONDUITS TOGETHER TO REDUCE QUANTITY OF PENETRATIONS WHEREVER POSSIBLE.
2. ALL EQUIPMENT SHALL BE NEW AND BEAR THE APPROPRIATE U.L. LISTING OR CLASSIFICATION MARK. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE U.L. LISTING OR CLASSIFICATION.

   COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTORS WITH DIVISION 15000 CONTRACTOR.

4. EACH DUCT SMOKE DETECTOR SHALL HAVE A U.L. LISTED FIRE ALARM RELAY PROVIDED AND INSTALLED WITHIN THREE (3) FEET OF ASSOCIATED AFD/STARTER. FIRE ALARM RELAY SHALL BE INTERLOCKED WITH ASSOCIATED AFD/STARTER. TYPICAL FOR ALL DUCT SMOKE DETECTORS.
5. THE CONTRACTORS PERFORMANCE INCLUDES FULL COORDINATION WITH ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS. SUCH COORDINATION SHALL OCCUR PRIOR TO ANY ROUGH-IN AND PRIOR TO PROCUREMENT OF NAY MATERIAL(S).
6. VERIFY EXACT ADDRESS AND NORTH ARROW DIRECTION BEFORE ORDERING FAAP.
7. COORDINATE DUCT SMOKE DETECTORS AND FIRE ALARM INTERFACE DEVICES FOR MECHANICAL UNITS.
8. FIRE ALARM VENDOR TO DETERMINE OPTIMUM DESIGN AND NECESSARY QUANTITY OF FIRE ALARM TERMINAL CABINETS. SEE FLOOR PLANS FOR PROPOSED LOCATIONS.
9. COORDINATE ELEVATOR INTERFACE.
10. PROVIDE ALL NECESSARY CONNECTIONS, DEVICES, SIGNALING LINE CIRCUITS, NOTIFICATION CIRCUITS, INITIATION DEVICE CIRCUITS AND FIRE PHONE CIRCUITS NEEDED FOR A COMPLETE FIRE ALARM SYSTEM INSTALLATION.
11. SMOKE DETECTORS UTILIZED SOLELY FOR CLOSING DAMPERS OR FOR HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SHUT DOWN SHALL BE MONITORED FOR ACTIVATION THROUGH THE FIRE ALARM SYSTEM, BUT SHALL NOT ACTIVATE THE MAIN FIRE ALARM EVACUATION SIGNAL (NFPA 90A).



FIRE ALARM RISER DIAGRAM

NOT TO SCALE

FIRE ALARM TESTING AND OPERATION NOTES:

1. COMPLY WITH ALL REQUIREMENTS OF NFPA 72.
2. FOR EACH INSTALLATION AND SYSTEM TO BE TESTED BY THE PRINCE GEORGES COUNTY FIRE MARSHAL'S OFFICE, TEST IN ACCORDANCE WITH NFPA 72, CHAPTER 10 PRIOR TO SCHEDULING FIRE MARSHAL. ENSURE NO WORKER TOUCHES OR INTERFERES WITH ANY PART OF THE FIRE ALARM SYSTEM, DEVICE OR WIRING DURING ANY TEST OF "RING-OUT" OR DURING ANY TESTING IN PRESENCE OF FIRE MARSHAL.
3. ANY AND ALL PUBLICLY ACCESSIBLE/OCCUPIABLE AREAS SHALL BE VOID OF EXPOSED CABLES, OPEN BOXES, INCOMPLETE FIRE ALARM WORK OR OTHERWISE INCOMPLETE INSTALLATION. FIRE ALARM SYSTEM(S) WITH PUBLIC OCCUPIABLE AREAS SHALL BE FULLY FINISHED, TESTED AND OPERATIONALLY MAINTAINED.
4. THE CONTRACTORS BASE BID INCLUDES UP TO 2 ADDITIONAL PULL STATIONS, 10 ADDITIONAL STROBES AND 5 ADDITIONAL STROBE HORN DEVICES AND 5 ADDITIONAL SMOKE DETECTORS AS MAY BE REQUIRED BY THE FIRE MARSHAL INSPECTOR DURING TESTING AND FINAL ACCEPTANCE. THE FIRE ALARM PANEL SHALL BE SIZED TO HANDLE ADDITIONAL DEVICES HEREIN DESCRIBED. ADDITIONAL DEVICES SHALL BE CALCULATED AS PART OF THE 150% BATTERY CAPACITY REQUIREMENTS.

FIRE ALARM RISER NOTES:

1. FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL DUCT SMOKE DETECTORS, AND AUTO DIALER AND FIRE ALARM CONTRACTOR TO INSTALL IT.
2. THIS INFORMATION IS FOR GUIDANCE ONLY. FIRE ALARM CONTRACTOR TO PROVIDE COMPLETE DESIGN AND SHOP DRAWINGS FOR SPRINKLER AND FIRE ALARM SYSTEM AND SUBMIT TO FIRE MARSHAL.
3. THE ENTIRE FIRE ALARM SYSTEM IS ADDRESSABLE.
4. FIRE ALARM NOTIFICATION MUST BE VIA EMERGENCY VOICE ALARM. THE ANNOUNCEMENT MUST BE PRE RECORDED.

FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS													CENTRAL COMM		
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL COMM.	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL COMM.	TRANSMIT TROUBLE SIGNAL TO CENTRAL SYSTEM	SHOW CHANGE OF STATUS ON CENTRAL PANEL	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
MANUAL FIRE ALARM PULL BOXES	X	X					X	X	X			X	X	X		
BUILDING SMOKE DETECTOR	X	X					X	X	X			X	X	X		
SPRINKLER WATERFLOW	X	X					X	X	X			X	X	X		
SPRINKLER TAMPER			X	X				X		X		X	X		X	
SPRINKLER TAMPER			X	X				X		X		X	X		X	
FIRE ALARM AC POWER FAILURE					X	X		X			X	X	X			X
FIRE ALARM SYSTEM LOW BATTERY					X	X		X			X	X	X			X
OPEN CIRCUIT					X	X		X			X	X	X			X
GROUND VAULT					X	X		X			X	X	X			X
NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X			X	X	X			X

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