

40 Year Recertification Building Repairs for 2887-2897 5th. Avenue LLC

Project Data

Zoning: T-6-8-0
Industrial
FEMA Flood Zone: X Area Minimal Flood Hazard

Legal & Property Description

Folio Number: 01-3125-024-2890
Owner Name: 2887 N.W. 5th LLC
Name of Title: 2887 NW 5th LLC
Street Address: 2887 & 289 NW 5th Ave., Miami, Florida, 33127
Legal Description: Northern Blvd TR PB 2-29 lots 10 & 11 less E 48.06ft BLK 17

Code Compliance

Note: use all codes and standards to the latest edition. Applicable codes and standards shall include all state laws, local ordinances, utility Company regulations and the applicable requirements of the following accepted codes and standards. Without limiting the number as follows:

1. Florida building code 7th edition - (2020)
2. ACI 318-19.
3. National Electrical Code (NEC 2017).
4. National electrical safety and health standard.
5. Local ordinances, regulations of the building depts.
6. NFPA 70 & Florida Fire Prevention Code (FFPC) 7th Edition
- Occupational safety and health standard.

Type of Repairs

Existing Building Existing CMU construction type of III.
Alteration Type: Level ONE

Areas & Zoning Category

Concrete block construction 2 story adjusted area 3,990 sq. Ft. According to P. Records
Concrete block construction 1 story adjusted area 6,749 sq. Ft. According to P. Records
Interior Square Footage:*
BAY 1: 3,570 sq. ft. Warehouse Storage Section 309.1 group S1.
BAY 2: 4,157 sq. ft. Warehouse Storage Section 309.1 group S1.
BAY 3: 1,150 sq.ft. Warehouse Storage Section 309.1 group S1.
BAY 4: 1,150 sq.ft. Warehouse Storage Section 309.1 group S1.
*sq. footages based on owner supplied survey.

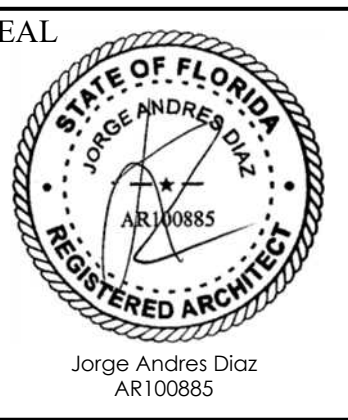
Existing Usage and General Scope of Work

General Scope of work includes:
Only repairs as outline in submitted 40 Year Recertification Engineering Report prepared by Florida Builders Engineers & Inspectors, submitted to the City of Miami as part of this submission.
All areas PRIMARY FUNCTIONS are to remain as Existing. Only repairs to existing spaces are being undertake.
All areas are zoned T-6-8-0, Section NRD-1, with current usage group M, to remain.
All areas are one story spaces. Area on North West corner of property is a two-story structure, to remain. Lower level (Bay Three), upper level (Bay Four), accessible from EXTERIOR ONLY.
Refer to Sheet SP.1.1 for DETAILED REPAIR SCOPE OF WORK BASED ON 40 YEAR RECERTIFICATION REPORT.



Drawing List

A.0.0	Cover Sheet	△△△△
SP.1.0	Site Plan	1/8" △
SP.1.1	Bay Location Plan-New Sheet	1/8" △
A.1.0	Bay 1 Floor Plan Repairs	1/4" △△△
A.1.1	Bay 2 & 3 Ground Floor Plans	1/4" △△△△
A.1.2	Bay 4 Floor Plan Repairs	1/4" △△△△
A.2.0	Reflected Ceiling Repair Plans	1/8" △△△△
A.2.1	R.C.P. Update-New Sheet	1/8" △
A.3.0	Roof Repair Plans	1/8" △
A.4.0	Elevations	1/4" △△
A.4.1	Elevation / Sections	1/4" △△△
A.5.0	Sections & Details	Varies △
A.5.1	Details	1.1/2" △
A.5.2	Details	Varies △
A.5.3	Fire Stop Repair Details	△
S.1.0	Existing Ground Floor Plan	1/8" △
S.1.1	Existing Second Floor Roof & Floor Framing Plans	1/8" △
S.2.0	Existing Roof Demolition and New Framing Plans	1/8" △
S.2.1	Roof RTU Layout & Stand Drawings	Varies △
S.3.0	Structural Details	Varies △
S.4.0	Structural Details	Varies △
S.5.0	Concrete Repair Notes and Details	Varies △
S.6.0	Elevations and Wind Pressures	1/4" △
E-1.0	Site Plan, Elect. Legends, Notes	1/8" △
E-2.0	Lower Level Power Plan	1/8" △
E-3.0	Upper Level Power Plan, Panel Schedule, Electrical Riser Diagrams	Varies △
E-4.0	Electrical R.C.P.	1/8" △
E-5.0	Electrical Roof Plan	1/8" △



2887 - 2897 40 Yr. Recertification Repairs

2887-97 N.W. 5th Avenue, Miami, Florida 33015

November 22, 2022

Revision #01	City Comment Response	2/10/23	
Revision #02	City Comment Response	3/27/23	Complete resubmission as REPAIR ONLY for 40 Year Recertification Process
Revision #03	City Comment Response	4/24/23	Response to Review Comments
Revision #04	Field Revisions	9/8/23	Update based on Field Conditions
Revision #05	Field Revisions	2/5/24	Clarification/Update based on Field Conditions

Location Plan n.t.s.



Project Site



M. Hajjar & Associates
247 Malage Avenue
Coral Gables Florida 33134
305.445.2399

EB-8373

N.W. 29 Street

+14.13' N.G.V.D.
C.O.R.

+15.52' N.G.V.D.
C.O.R.

+12.69' N.G.V.D.
C.O.R.

+13.89' N.G.V.D.
C.O.R.

+14.42' N.G.V.D.
C.O.R.

Existing Landscape
to remain, n.i.c.

Existing Entry Stairs
new railing

Property Line - 102.87'

Existing Roof Mounter
Compressors

Existing Wall Mounted
Compressors

2897 N.W. 5th Ave

Existing Roof Bay Four
to be replaced

Existing Roof Bay Two
to be replaced/replaced

Adjacent Structure n.i.c.

Existing Alley Emergency Exit Route
To Remain

Property Line - 120.0'

Property Line - 120.0'

Existing Parking area
to Remain N.I.C.

Existing Roof Mounted
Compressors

2887 N.W. 5th Ave
Existing Roof Bay One
to be replaced/replaced

Property Line - 102.87'

Adjacent Structure n.i.c.

N.W. 5th Avenue

PROJECT SCOPE

Repairs as outlined in submitted 40 year recertification submissions by Florida Builders Engineering & Inspectors. Only repairs outlined in these submitted reports are to be addressed. These repairs DO NOT EFFECT THE PRIMARY FUNCTION OF THESE SPACES.

2897 NW 5 AVE MIAMI, FL 33127

STRUCTURAL-GENERAL

1. Roof Replacement.
2. Stucco Repairs.
3. Repair cracked exterior stucco.
4. New exterior Paint TOUCHUP ONLY.
5. Replacement of damaged Structural Floor/Roof members in two story area.
6. Plaster and G.W.B. repairs.
7. Repair Exterior Concrete Stair.
8. Install new interior railings of exit stairs.
9. Install new exterior railing.
10. Replacement of broken windows with new impact resistant windows.
11. Repair interior g.w.b. where required.

ELECTRICAL

1. Replacement of existing electrical panels.
2. Repair existing emergency exit signage. Replace if missing.
3. Repair or replace existing electrical feed to building.
4. Replace/repair branch circuits within space.
5. Repair/replace any damaged conduits.
6. Update emergency lighting.
7. Add additional lighting to existing parking area.

2887 NW 5 AVE MIAMI, FL 33127

STRUCTURAL-GENERAL

1. Roof Repair/Replacement.
2. Stucco Repairs.
3. Repair cracked exterior stucco.
4. New exterior Paint TOUCHUP ONLY.
5. Plaster and G.W.B. repairs interior.
6. Repair of damaged Structural Roof sheathing.
7. Repair interior g.w.b. where required.

ELECTRICAL

1. Repair/replace any damaged conduits.
2. Update emergency lighting.
3. Add additional lighting to existing parking area.

DEFERED SUBMITTAL LIST

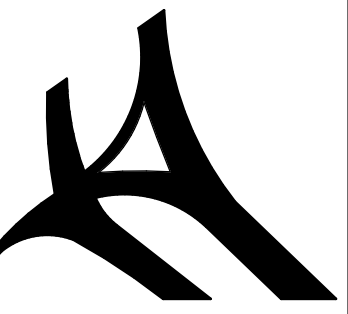
Submit shop drawings for A/E for approval for following items:
New handrailing to be installed.
Roofing membrane assembly with current N.O.A.
Replacement Windows with N.O.A.
** Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.

GENERAL NOTES

1. The general contractor shall familiarize himself with the project thoroughly inspect the Site, the drawings and specs so as to thoroughly understand the work. Any and all Discrepancies and omissions shall be reported to the a/e prior to starting of any work. that proceeds otherwise shall be, if performed incorrectly, replaced or repaired with the cost of the same being borne by the contractor. All dimensions shall be field conditions to be Verified by the General Contractor for coordination prior to work being done.
2. The contractor shall be responsible for all methods, procedures, and temporary bracing and shoring to ensure safe working conditions at all times. The investigation, shoring, temporary supports, etc. Are the sole responsibility of the contractor.
3. All conditions and all applicable requirements of the contract between the Contractor and owner shall govern all sections of the specifications. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be use, subject to approval by A/E of record.
4. All construction shall conform to the Florida building code 7th edition (2020). The Contractor shall coordinate all work with the work of all other trades. All asfm and other references as per the latest editions of these standards, unless otherwise noted.
5. All work, completed or otherwise, shall be properly protected at all times. Contractor shall follow all accepted methods of safety practice and provide all fences, barricades, etc. As may be needed to protect life and property and as may be required by authorities having jurisdiction over this work. He shall repair at his own cost. Any damages to the premises or adjacent work caused by his operation.
6. The architect/engineer shall not be responsible for, nor have control or charge of the Construction means, methods, sequences or for the safety precautions and programs.
7. Any and all loose debris above ceilings shall be removed.
8. The contractor shall be responsible for verification and coordination with other trades and their work to ensure compliance with the drawings and specifications.
9. The contractor shall verify sizes and locations of all openings for electrical equipment with sub-contractors as well as shop drawings as approved by architect before proceeding with work.
10. All items used in construction but not specifically mentioned herein shall conform to all local codes and state ordinances as to applications and use.
11. Provide insulation between all dissimilar metals and also cement and metal.
12. The contractor shall test the site for hazardous materials, if any hazardous materials, including asbestos and lead are encountered during the work, stop work immediately and contact Owner and A/E of record.
13. Owner shall be notified prior to disconnect any fire protection or detection system.
14. The general contractor shall provide a "safety plan" which delineates areas of Construction and construction traffic during phases of the project.
15. It is the responsibility of the general contractor & sub-contractors to field verify exact Measurements for "take offs".

COMPLIANCE

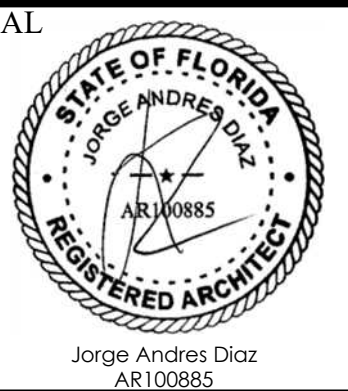
Note: use all codes and standards to the latest edition
Applicable codes and standards shall include all state laws, local ordinances, utility Company regulations and the applicable requirements of the following accepted codes and standards.
Without limiting the number as follows:
1. State requirement for educational facilities (sref)
2. Florida building code 7th edition - (2020)
3. Miami dade county public school (M-DCPS), design criteria 2015. ACI 318-19.
4. National Electrical Code (NEC 2017).
5. Local ordinances, regulations of the building depts.
6. National electrical safety and health standard.
7. Occupational safety and health standard.
8. NFPA 70



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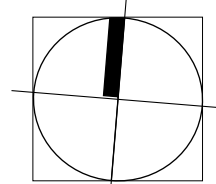
2887-2897 40 Year
Recertification Repairs
2887 & 2897 NW 5th LLC
2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2		
3	Field Revisions	9/3/23

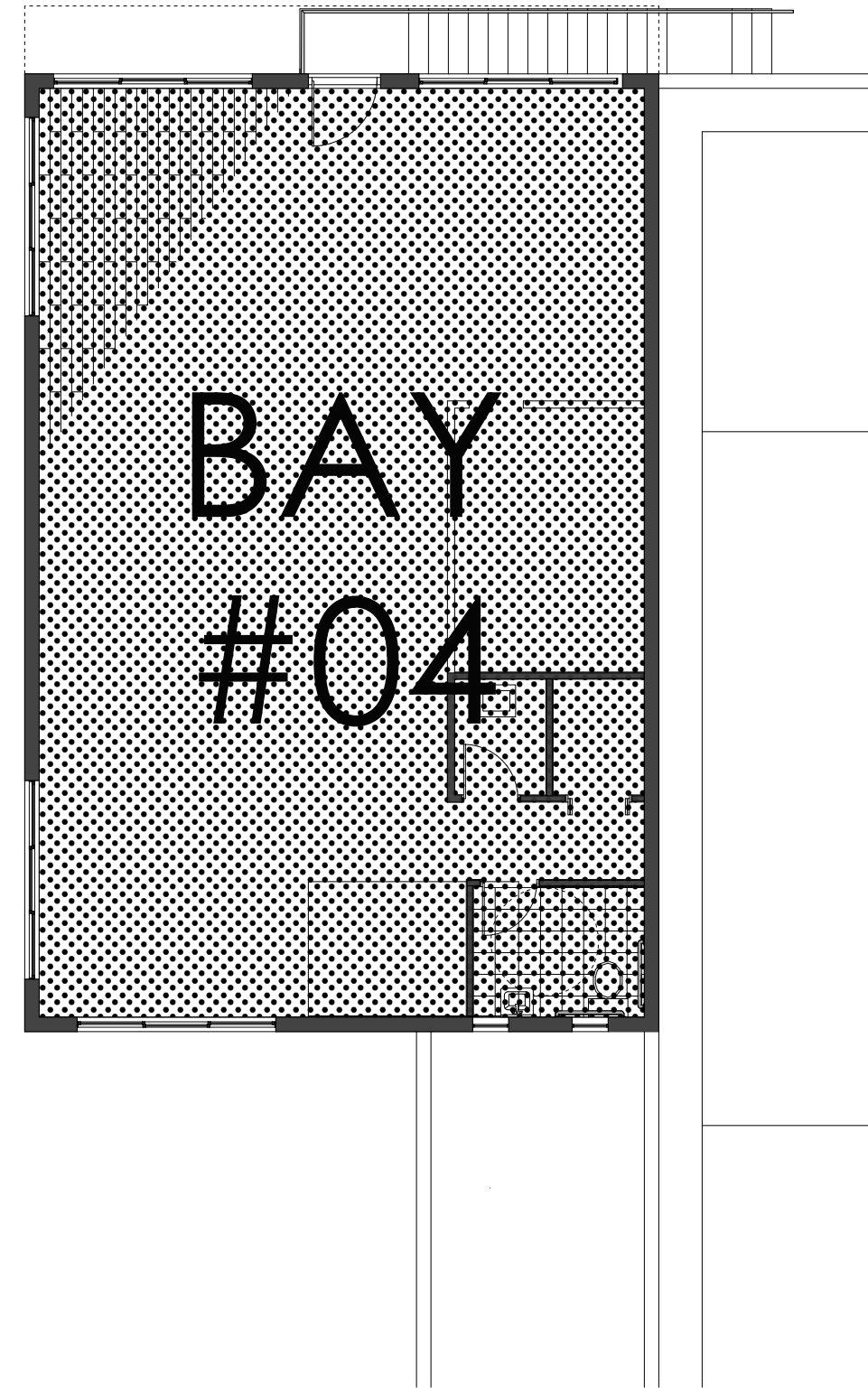
PROJECT 40 Year
Recertification Repairs
DRAWING Existing Site Plan
DATE 11/22/2022
SCALE As Shown
DRAWN LFP
REVIEWED MH
PROJ. NO. 01-2887-2022
SHEET NO.

SP.1.0

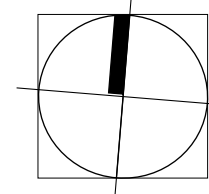
1 Existing Site Plan
A-2.1 1/8" = 1'-0"



Existing Open Bay no. TWO

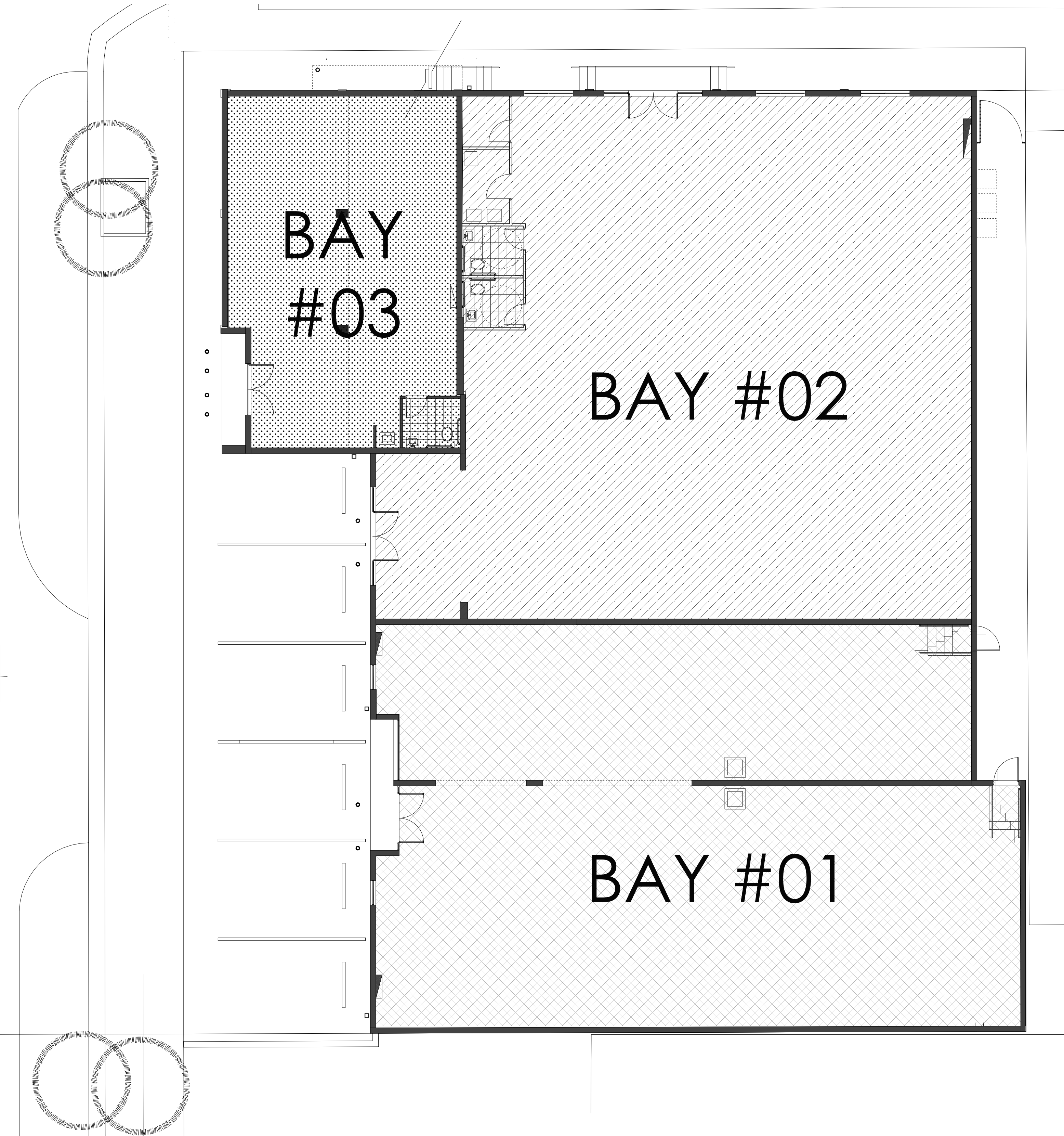


2 Bay FOUR Layout Diagram
SP.1.1 1/8" = 1'-0"

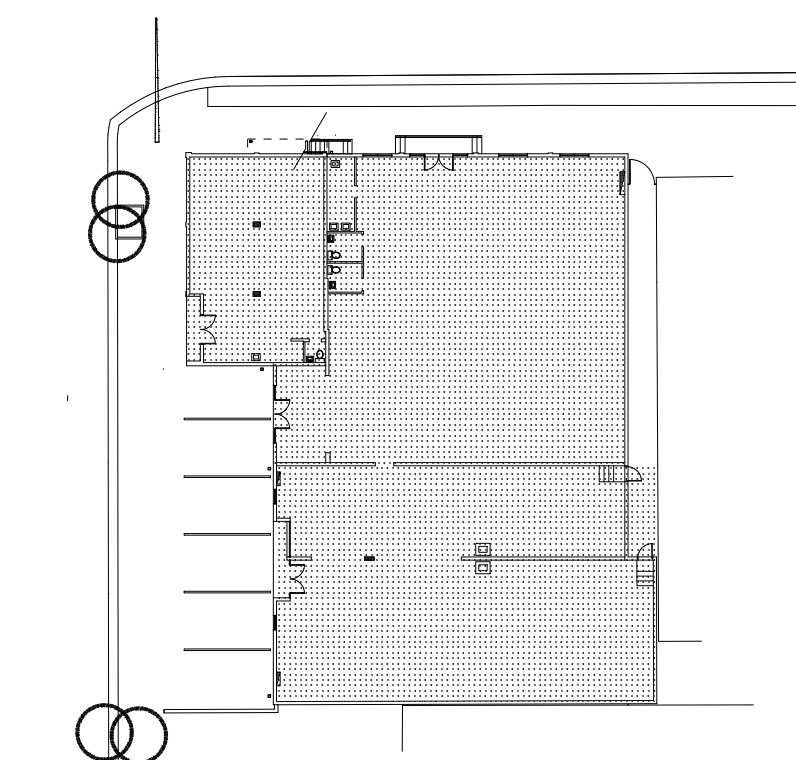
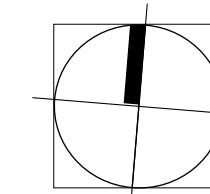


DRAWING NOTES

This drawings is to used for BAY LOCATION ONLY. Refer to construction Plans within this set of documents for repair requirements.

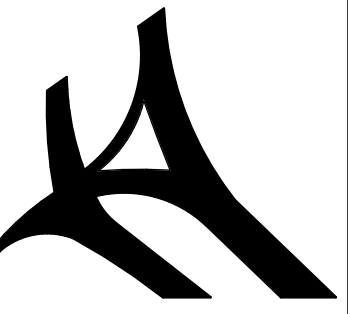
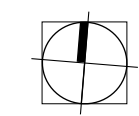


1 Bay One & Two Layout Diagram
SP.1.1 1/8" = 1'-0"

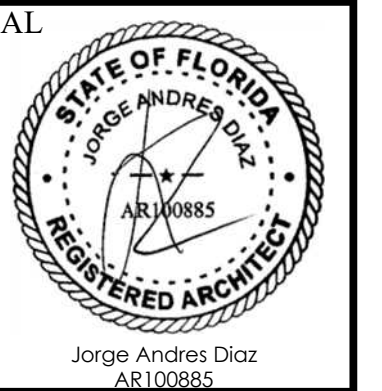


KEY PLAN

n.t.s.



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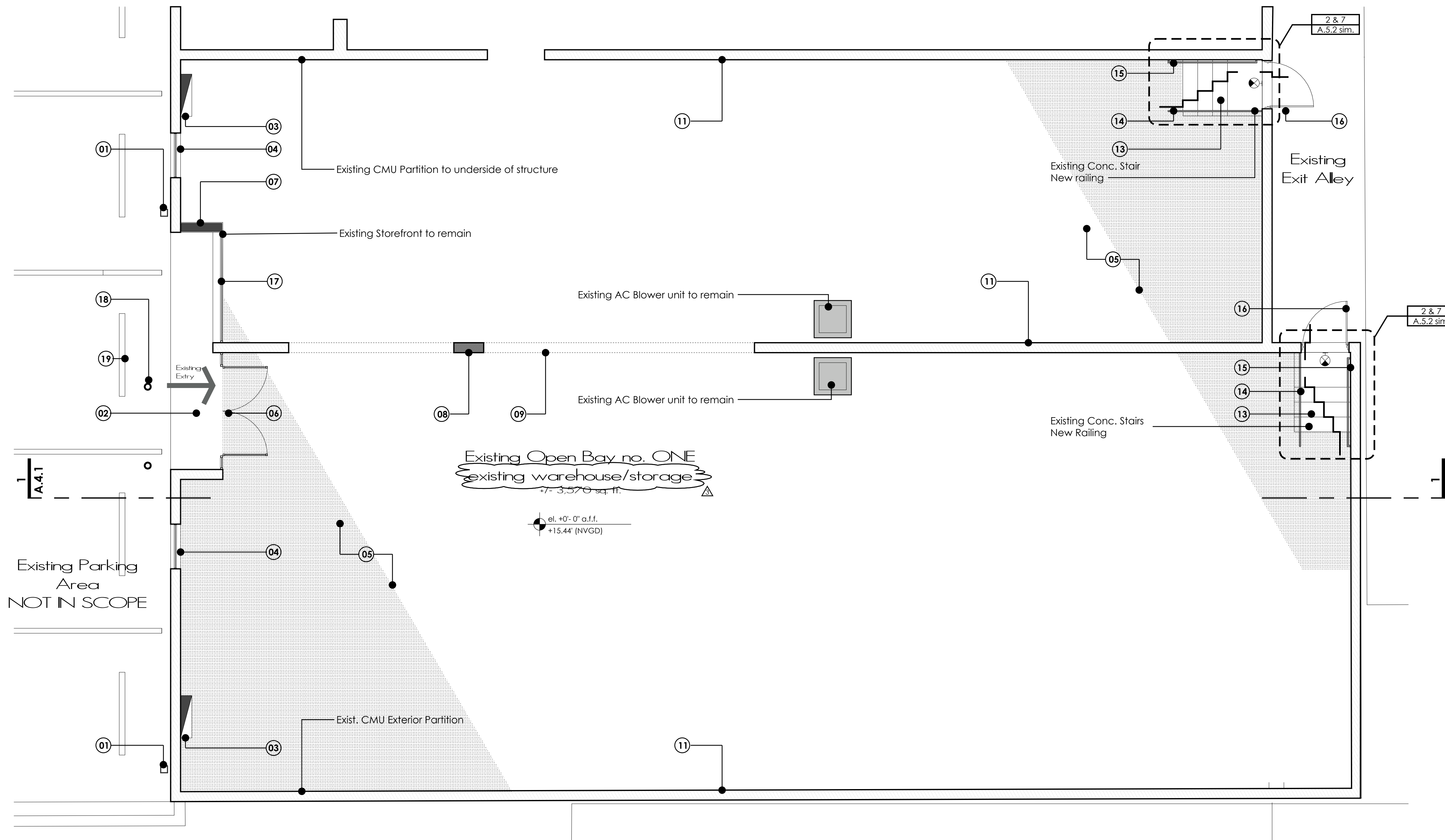


**2887-2897 40 Year
Recertification Repairs**
2887 & 2897 NW 5th LLC
2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2	Review Comments	3/27/23
3	Review Comments	4/24/23
4	Inspector Request	9/3/23

PROJECT: 40 Year Recertification Repairs
DRAWING: Floor Plan Unit Layout
DATE: 11/22/2022
SCALE: As Shown
DRAWN: LFP
REVIEWED: MH
PROJ. NO.: 01-2887-2022
SHEET NO.: SP.1.1

Existing Open Bay no. TWO



KEY NOTES

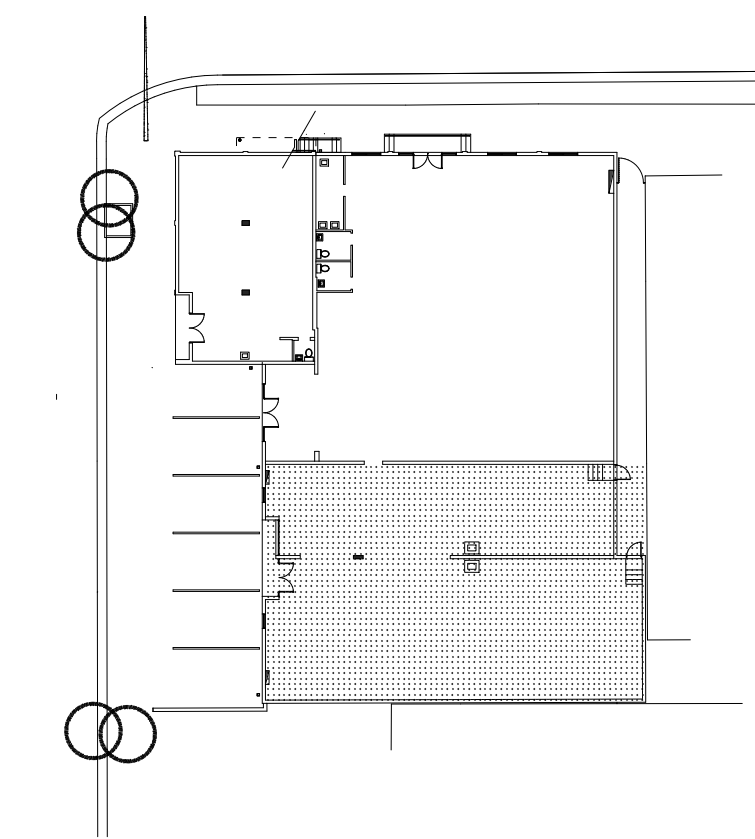
1. Existing Overflow scupper and roof down spout locations. Replace downspouts if required, min. 5" downspout as per current FBC 2020. Refer to scupper details for requirements.
2. Pressure cleaned and sealed entry.
3. Location for new electrical panel. Refer to Electrical Drawings.
4. Replace existing broken window with new impact resistant window, same size. Submit shop drawings with current NOA for approval. Frame color to match existing.
5. Existing concrete flooring to be cleaned and sealed. Typical in all areas.
6. Existing storefront door and fixed glass to remain. Clean.
7. Not Used
8. Existing column to remain, paint finish.
9. Line of existing beam above.
10. Not Used
11. Existing exposed cmu walls to be painted, typical.
12. Not Used
13. Cleaned and painted exit stairs. Include non-slip grit material in paint. Mount railing to c.m.u. wall and face of railing steps. Submit S & S shop drawings for A/E approval.
14. New FBC 2020 compliant handrailing to reject a 4" sphere @ 42" in height. Refer to Enlargement for additional information.
15. New wall mounted railing at stair, typ.
16. Existing HM exit doors to remain. Repair and lubricate as required, replace hardware if required. New paint finish.
17. Existing storefront window to remain. Clean.
18. Existing steel tube, concrete filled bollards to remain, paint Traffic Yellow.
19. Existing concrete wheel stops to remain.

DEFERED SUBMITTAL LIST

Submit shop drawings for A/E for approval for following items:
 New handrailing to be installed.
 Roofing membrane assembly with current N.O.A.
 Replacement Windows with N.O.A.
 ** Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.

LEGEND

- Existing CMU Partitions, New Paint Finish
- Existing Exposed Concrete floor to be Cleaned and Sealed



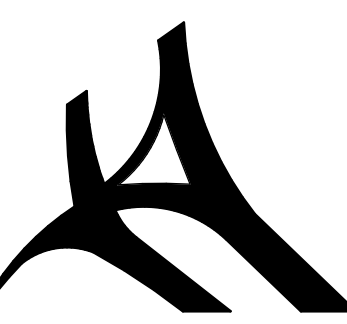
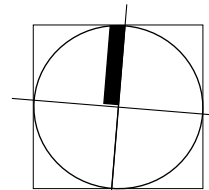
KEY PLAN

n.t.s.

LEVEL 1 FINISH AND COMPONENT REPLACEMENT

The General Contractor to replace all damaged finishes under permitted Level 1 scope of work.
 The General Contractor shall attempt to repair with like, all damaged finishes. If repair of existing finish is not possible, the Contractor shall remove and replace these damaged finishes, be they wall, floor, or ceiling finishes with new matching style and type, under Level 1 Scope of Work.
 All existing damaged gypsum wall board and internal 2" x 4" framing to be verified stable and acceptable under current FBC 2020, 7th edition requirements. If internal partitioning is not stable, it is to be removed and replaced with new, in same location. Wall framing to be min. 20 ga. 3 5/8" metal framing installed as per FBC 2020, 7th edition requirements.
 The General contractor shall remove and replace all existing plumbing fixtures as indicated in these drawings. The contractor shall verify the integrity of all plumbing connections. Repair and or replace damaged piping, flanges, and valves as required under Level 1 scope of work. No new connections are being made under this scope of work.

1 Existing Unit One Floor Plan
 A-2.1 1/4" = 1'-0"



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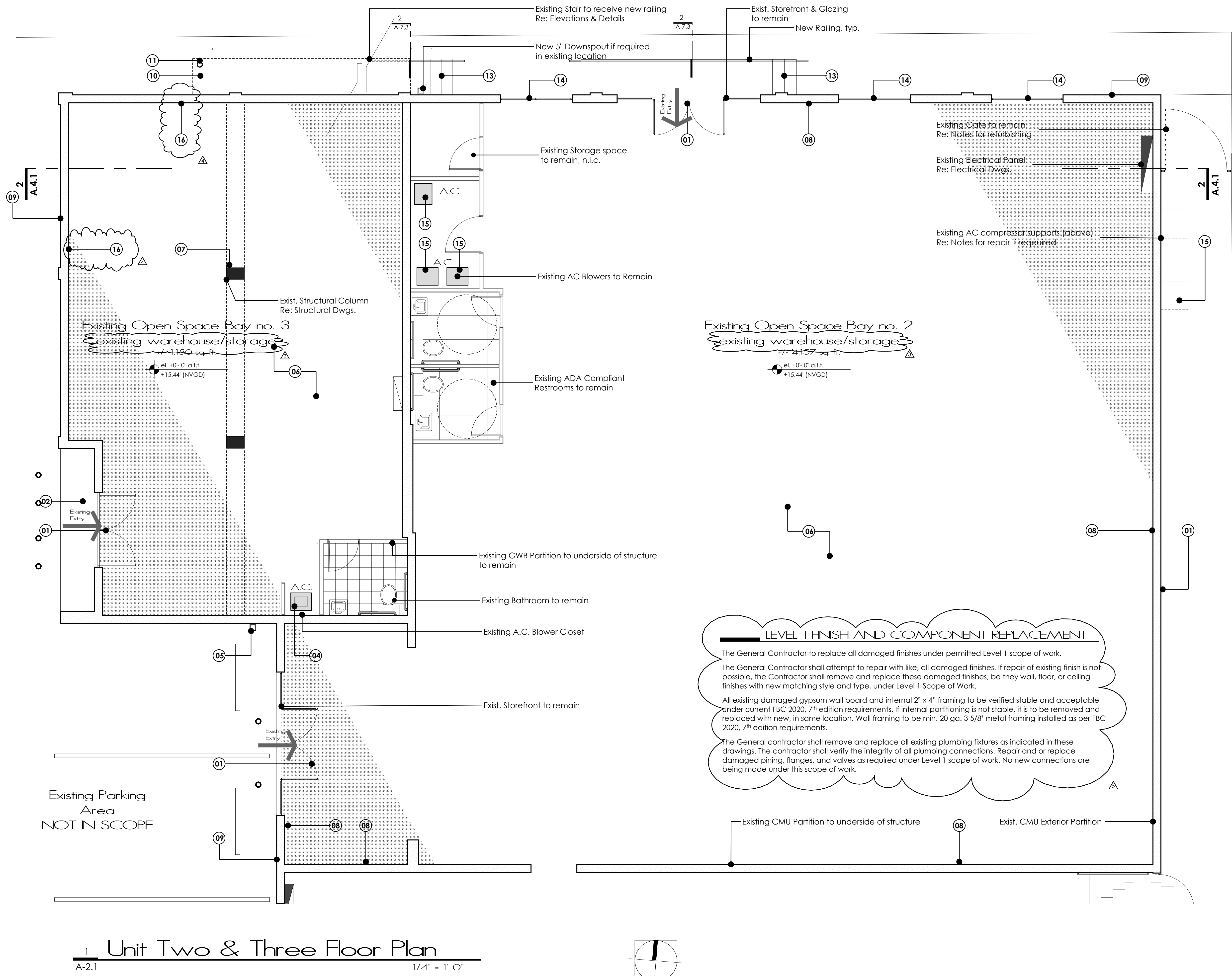


**2887-2897 40 Year
 Recertification Repairs**
 2887 & 2897 NW 5th LLC
 2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
△	Review Comments	2/10/23
△	Review Comments	3/27/23
△	Review Comments	4/24/23
△	Field Revisions	2/5/24

PROJECT: 40 Year Recertification Repairs
 DRAWING: Floor Plan Unit One
 DATE: 11/22/2022
 SCALE: As Shown
 DRAWN: LFP
 REVIEWED: MH
 PROJ. NO.: 01-2887-2022
 SHEET NO.: △ Revised Sheet

A.1.0



1 Unit Two & Three Floor Plan
A-2.1 1/4" = 1'-0"

- KEY NOTES**
- Existing storefront door and fixed glass to remain.
 - Existing Concrete to be sealed.
 - Not Used
 - Existing AC blower unit to be remain. Clean as required.
 - Existing Downspout, repair as required. If necessary.
 - Existing concrete flooring to be cleaned and sealed. Typical in all areas.
 - Existing concrete column to remain. Paint finish.
 - Existing interior gwb finish to be patched smooth as required.
 - Existing Stucco to be repaired as required. New paint touchup to match finish.
 - Underside of existing exterior concrete protrusion. Pressure clean and paint with elastomeric paint finish.
 - Existing Steel column to remain. Prime with approved rust inhibitor primer, paint finish.
 - Not Used.
 - Existing Stairs to have chips patched with approved epoxy grout. New paint finish, include anti-slip grit to paint.
 - Existing storefront window to remain. Clean and reseal with approved silicone sealer as required for complete water seal.
 - Existing AC compressors to remain, clean and service as required for full functionality. Existing wall brackets to be cleaned and or replaced in preparation of new paint finish.
 - Expose existing C.M.U. wall, paint finish.
- DEFERED SUBMITTAL LIST**
- Submit shop drawings for A/E for approval for following items:
 New handrailing to be installed.
 Roofing membrane assembly with current N.O.A.
 Replacement Windows with N.O.A.
 ** Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.

- LEGEND**
- Existing CMU Partitions, New Paint Finish
 - New 3.5/8" 20 ga. Framed Partitions
 - Existing Exposed Concrete Floor to be Cleaned and Sealed
 - New CMU Wall Infill, Wall Finish to Match Existing

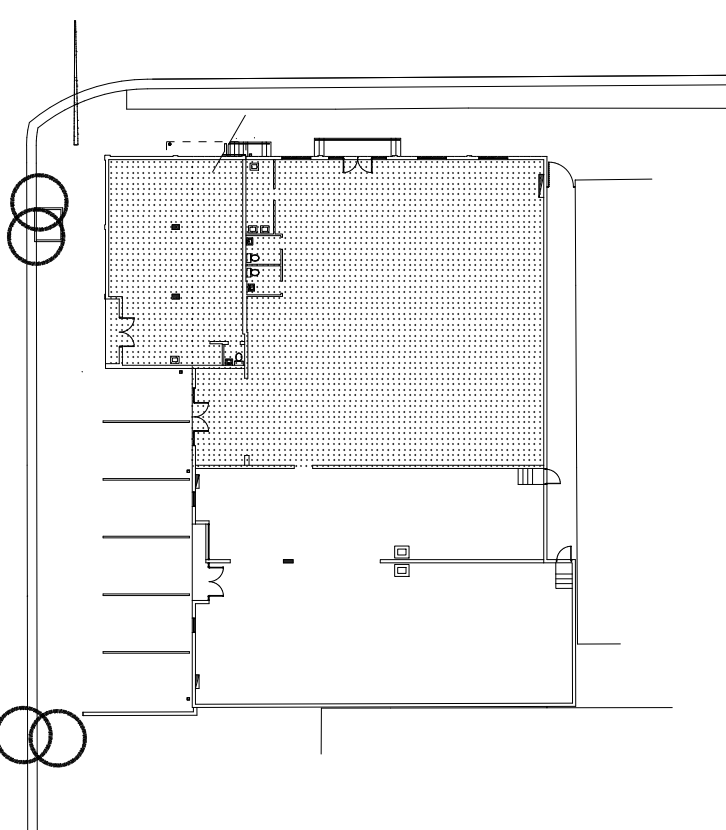
LEVEL 1 FINISH AND COMPONENT REPLACEMENT

The General Contractor to replace all damaged finishes under permitted Level 1 scope of work.

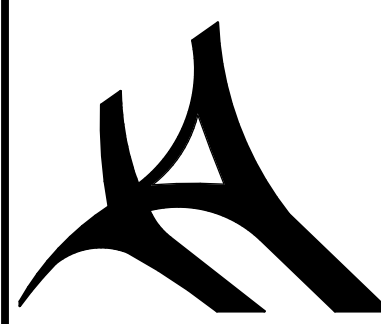
The General Contractor shall attempt to repair with like, all damaged finishes. If repair of existing finish is not possible, the Contractor shall remove and replace these damaged finishes, be they wall, floor, or ceiling finishes with new matching style and type, under Level 1 Scope of Work.

All existing damaged gypsum wall board and internal 2" x 4" framing to be verified stable and acceptable under current FBC 2020, 7th edition requirements. If internal partitioning is not stable, it is to be removed and replaced with new, in same location. Wall framing to be min. 20 ga. 3 5/8" metal framing installed as per FBC 2020, 7th edition requirements.

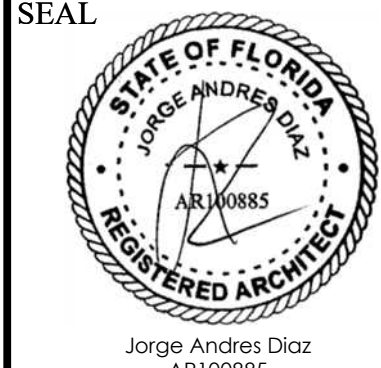
The General contractor shall remove and replace all existing plumbing fixtures as indicated in these drawings. The contractor shall verify the integrity of all plumbing connections. Repair and or replace damaged pining, flanges, and valves as required under Level 1 scope of work. No new connections are being made under this scope of work.



KEY PLAN
n.t.s.



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Jorge Andres Diaz
 AS100885

**2887-2897 40 Year
 Recertification Repairs**
 2887 & 2897 NW 5th LLC
 2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2	Review Comments	3/27/23
3	Review Comments	4/24/23
4	Field Revisions	9/13/23
5	Field Revisions	2/5/24

PROJECT
 40 Year
 Recertification Repairs

DRAWING
 Floor Plan Unit 2 & 3

DATE
 11/22/2022

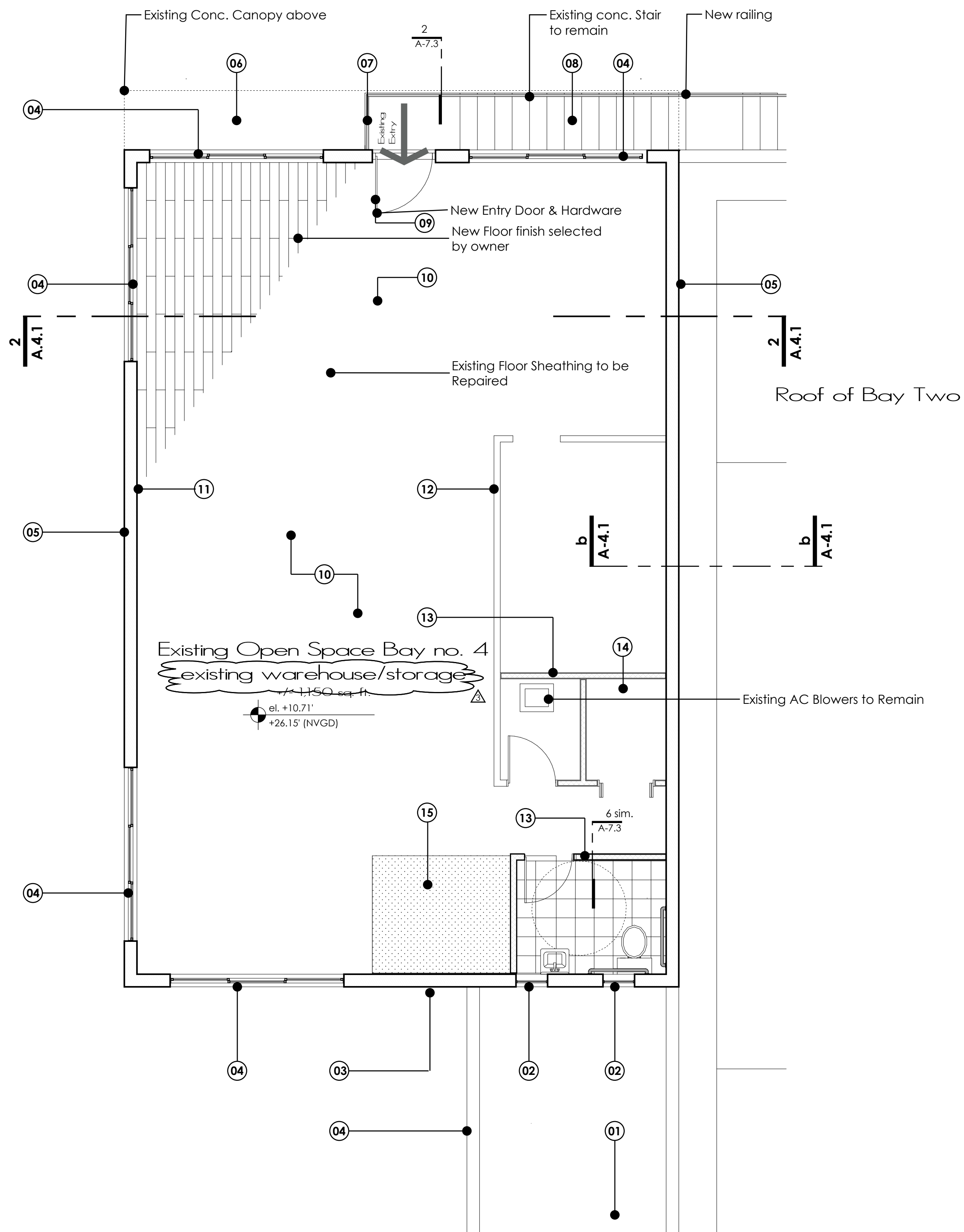
SCALE
 As Shown

DRAWN
 LFP

REVIEWED
 MH

PROJ. NO.
 01-2887-2022

SHEET NO. Revised Sheet
A.1.1



KEY NOTES

1. Roof to be replaced. Re: Roof Plan.
2. Replace existing broken window with new impact resistant window, same size. Submit shop drawings with current NOA for approval. Frame color to match existing.
3. Existing roof downspout, replace if required. If replacement occurs, replace with a minimum 5" square down spout, as per FBC 2020, typ.
4. Existing operable window(s) to remain. Clean and lubricate tracks.
5. Existing exterior wall, repair any cracks, remove delaminated stucco if present.
6. Underside of existing concrete protrusion above. Prime and paint with elastomeric paint.
7. New FBC 2020 compliant handrailing to reject a 4" sphere @ 42" in height. Refer to Enlargement for additional information.
8. Cleaned and repair existing concrete steps. Chips to be repaired with epoxy grout, typical. Paint exit stairs include non-slip grit material in paint.
9. Existing door to be replaced with same size and style.
10. New floor sheathing (3/4" plywood) with new floor finish, typical in Bay Four. Refer to Structural Drawings for additional requirements.
11. Interior wall gwb finish to be removed, paint finish.
12. Existing framed wall to remain, patch smooth as required, new paint finish.
13. Repair existing partition with 5/8" type "X" gwb on 3 5/8" 20 ga. metal framing @ 16" o.c. All walls receiving repairs to have sound deadening insulation.
14. Repair AC closet gwb, typical. Repair/replace louvered bifold doors @ 3'0" x 6'-8".
15. Repair floor area where void was located, reframe flush. Refer to Structural Drawings for framing requirements.

DEFERED SUBMITTAL LIST

Submit shop drawings for A/E for approval for following items:
 New handrailing to be installed.
 Roofing membrane assembly with current N.O.A.
 Replacement Windows with N.O.A.
 ** Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.

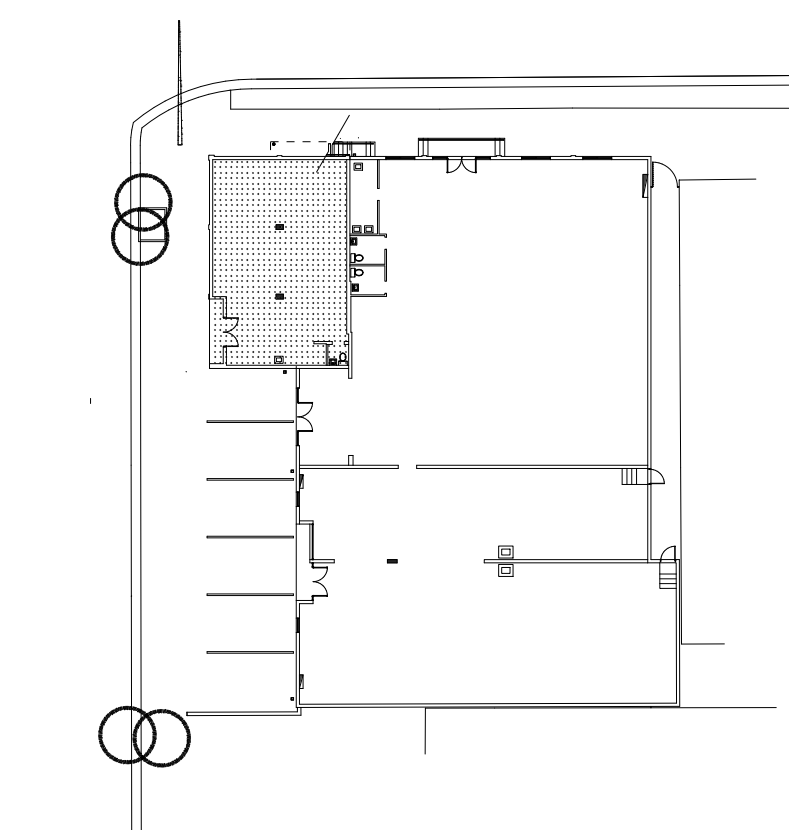
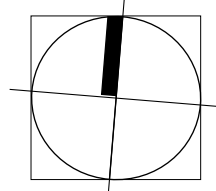
LEGEND

- Existing CMU Partitions, New Paint Finish
- Existing Exposed Concrete Floor to be Cleaned and Sealed
- New Flooring Finish

LEVEL 1 FINISH AND COMPONENT REPLACEMENT

The General Contractor to replace all damaged finishes under permitted Level 1 scope of work.
 The General Contractor shall attempt to repair with like, all damaged finishes. If repair of existing finish is not possible, the Contractor shall remove and replace these damaged finishes, be they wall, floor, or ceiling finishes with new matching style and type, under Level 1 Scope of Work.
 All existing damaged gypsum wall board and internal 2" x 4" framing to be verified stable and acceptable under current FBC 2020, 7th edition requirements. If internal partitioning is not stable, it is to be removed and replaced with new, in same location. Wall framing to be min. 20 ga. 3 5/8" metal framing installed as per FBC 2020, 7th edition requirements.
 The General contractor shall remove and replace all existing plumbing fixtures as indicated in these drawings. The contractor shall verify the integrity of all plumbing connections. Repair and or replace damaged piping, flanges, and valves as required under Level 1 scope of work. No new connections are being made under this scope of work.

1 Unit Four Floor Plan
 A-2.1 1/4" = 1'-0"



KEY PLAN
 n.t.s.

M. Hajar & Associates Inc
 EB8373-PE40187
 247 Malaga Avenue
 Coral Gables, FL 33134
 TEL 305-445-2399
 FAX 305-445-2219

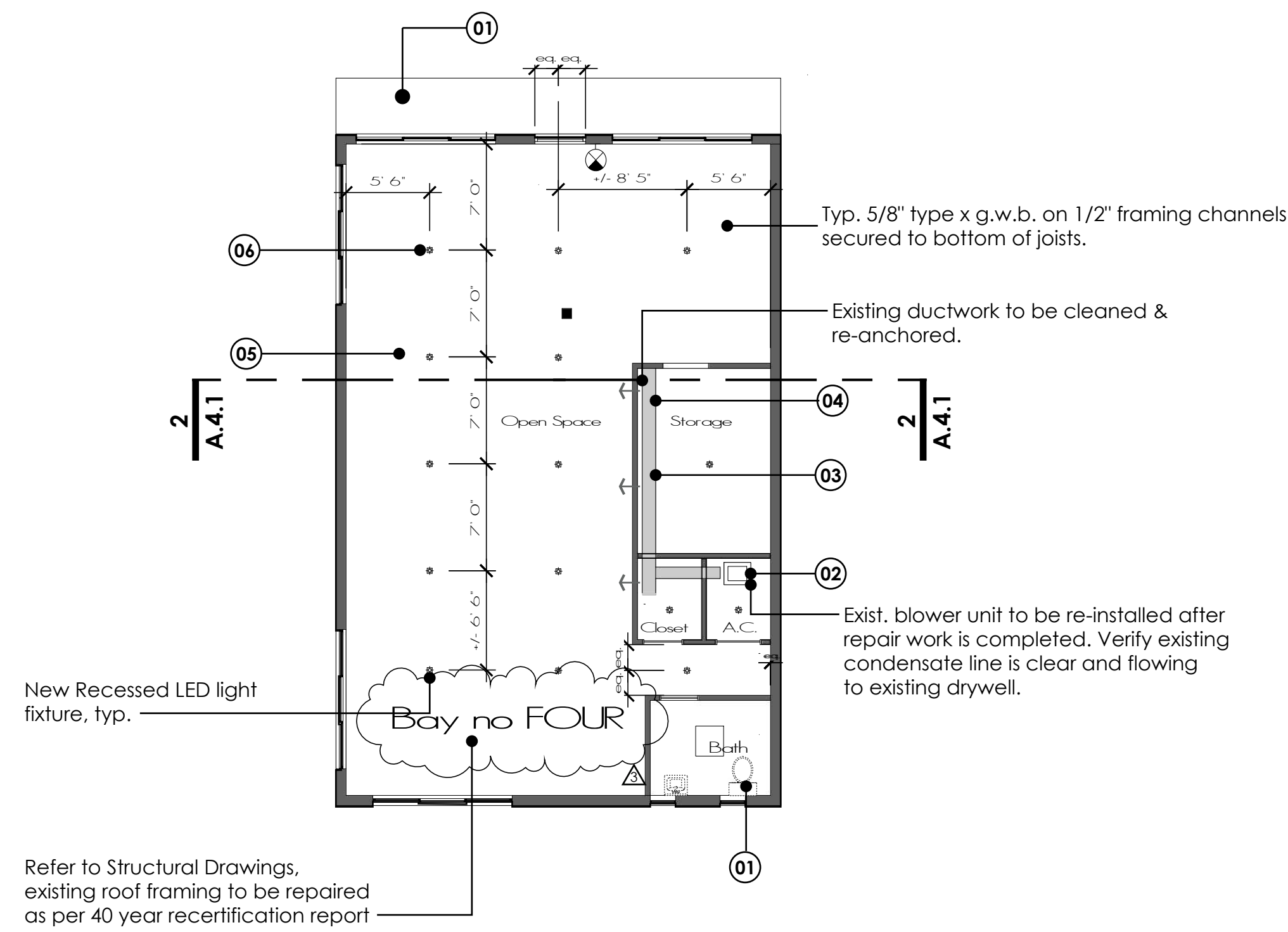
SEAL

Jorge Andres Diaz
 AS100885

2887-2897 40 Year
 Recertification Repairs
 2887 & 2897 NW 5th LLC
 2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
△	Review Comments	2/10/23
△	Review Comments	3/27/23
△	Review Comments	4/24/23
△	Field Revisions	9/3/23
△	Field Revisions	2/5/24

PROJECT: 40 Year Recertification Repairs
 DRAWING: Floor Plan Unit 4
 DATE: 11/22/2022
 SCALE: As Shown
 DRAWN: LFP
 REVIEWED: MH
 PROJ. NO.: 01-2887-2022
 SHEET NO.: A.1.2 Revised Sheet



1 Existing Second Floor R.C. Plan
A-2.1 1/8" = 1'-0"

Refer to Electrical Drawings for all emergency lighting locations

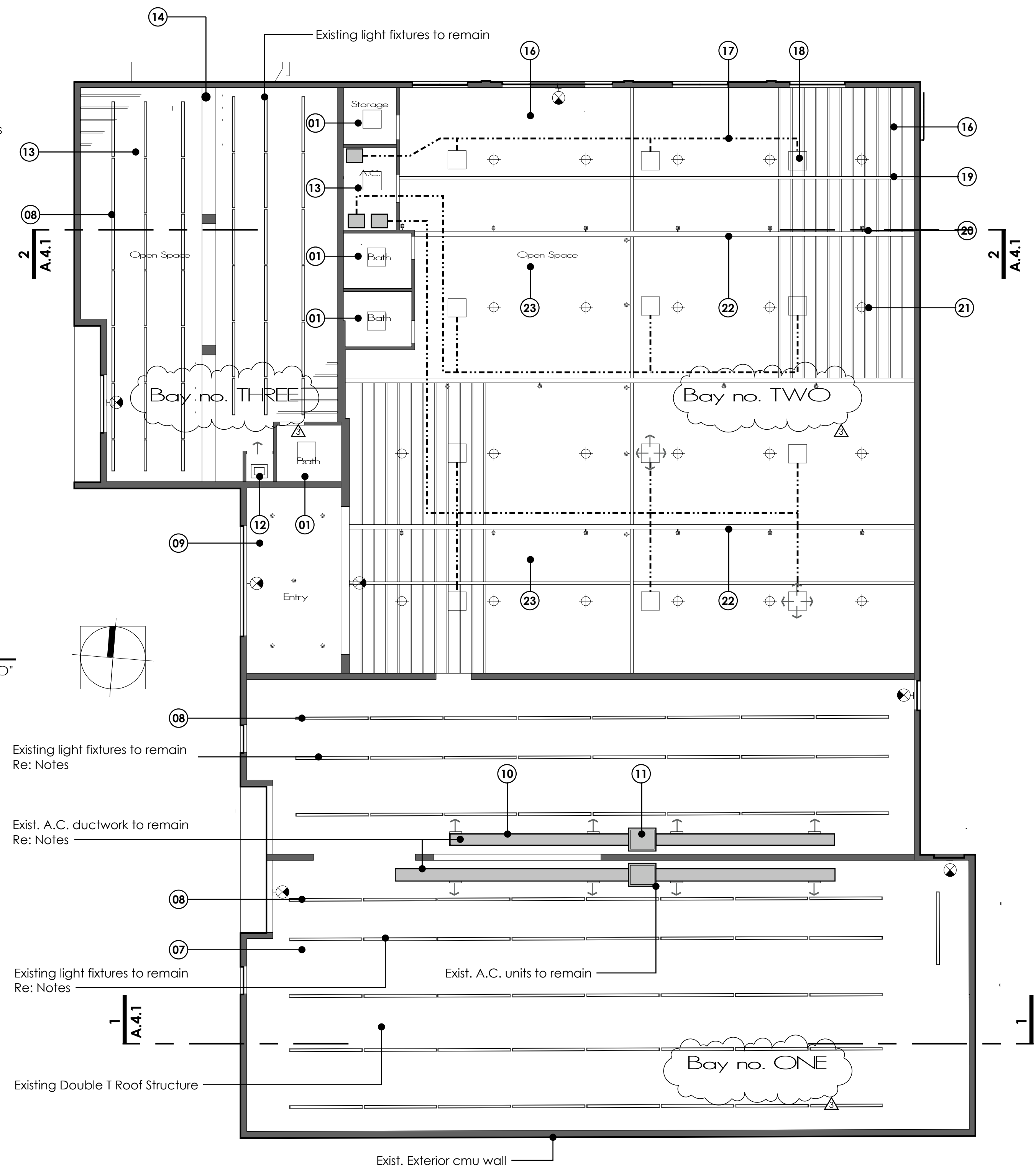
LEVEL 1 FINISH AND COMPONENT REPLACEMENT

The General Contractor to replace all damaged finishes under permitted Level 1 scope of work.

The General Contractor shall attempt to repair with like, all damaged finishes. If repair of existing finish is not possible, the Contractor shall remove and replace these damaged finishes, be they wall, floor, or ceiling finishes with new matching style and type, under Level 1 Scope of Work.

All existing damaged gypsum wall board and internal 2" x 4" framing to be verified stable and acceptable under current FBC 2020, 7th edition requirements. If internal partitioning is not stable, it is to be removed and replaced with new, in same location. Wall framing to be min. 20 ga. 3 5/8" metal framing installed as per FBC 2020, 7th edition requirements.

The General contractor shall remove and replace all existing plumbing fixtures as indicated in these drawings. The contractor shall verify the integrity of all plumbing connections. Repair and or replace damaged pining, flanges, and valves as required under Level 1 scope of work. No new connections are being made under this scope of work.



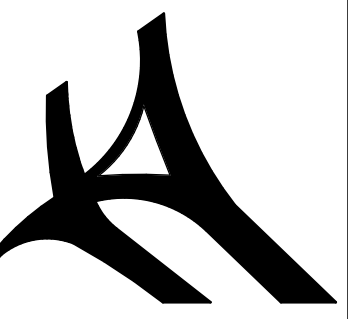
1 Existing Ground Floor R.C. Plan
A-2.1 1/8" = 1'-0"

KEY NOTES

- Existing concrete "eyebrow" above to be repaired if required. New paint finish.
- Existing ac blower cleaned for proper functionality. Reconnect existing ductwork with modified plenum after Structural Repairs are completed.
- Repair/replace existing 1/2" gwb soffit to conceal existing ductwork after roof repairs are completed. Frame with 2", 20 ga. framing channels @16" o.c.
- Existing ac ductwork to be cleaned and refastened to new roof framing members.
- New 1/2" gwb ceiling attached to new roof framing members, typ. Install min R-30 Batt insulation between new roof framing members. Ceiling finish to be smooth & painted, typ. Coordinate with structural drawings for framing requirements.
- New LED light fixtures installed after structural repairs are complete, fixture type to be LED, to be selected.
- Existing exposed concrete Double Tee structural system to remain. Clean and paint.
- Existing fluorescent light fixtures to remain. Replace existing fluorescent bulbs with high efficiency LED bulbs. A/E to select color temperature. Submit shop drawing cut sheet on bulbs for A/E approval.
- Repair existing ceiling in this area. Refer to structural drawings for roof framing repairs required.
- Existing ductwork to be cleaned and repaired if required.
- Existing ac blower.
- Existing ac blower.
- Existing exposed ceiling framing, paint finish.
- Existing concrete beam to be painted white.
- Not Used
- Exposed existing T & G wood framing to be repainted white.
- Location of existing ductwork. Clean, repair, rehang as required.
- Existing AC diffuser(s) clean.
- Existing wood framing member securing roof sheathing to be cleaned and painted, typical.
- Existing uplight attached to top of lower cord of existing steel truss, repair if required
- Repair Pendant fixture, typical.
- Existing steel truss system to remain. Clean of any rust, prime with rust inhibitor, paint white, typical.
- Exposed existing T & G wood framing to be painted white after new roof sheathing, insulation, and roofing membrane is installed. All exposed T & G to be repaired as part of roof replacement.

LEGEND

- Existing CMU Walls
- Replacement Pendant Light Fixtures
- Replacement LED Down Light Fixtures
- Replace LED uplight Fixtures mounted to steel truss
- Existing LED 2' x 2' Recess Mounted Light Fixtures
- Existing Fluorescent Light Fixtures to Remain, New LED Bulbs, Typical.
- Repair/Replace existing Exit Signage
- Existing AC Ductwork to remain, Clean & Repair if Req.
- Existing AC Diffusers to Remain

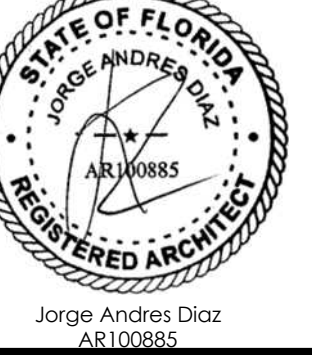


M. Hajjar & Associates Inc

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SEAL



2887-2897 40 Year
Recertification Repairs

2887 & 2897 NW 5th LLC
2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
1	Review Comments	3/27/23
2	Review Comments	4/24/23
3	Field Revisions	9/3/23
4	Field Revisions	2/5/24

PROJECT
40 Year
Recertification Repairs

DRAWING
Reflected Ceiling Plans

DATE
11/22/2022

SCALE
As Shown

DRAWN
LFP

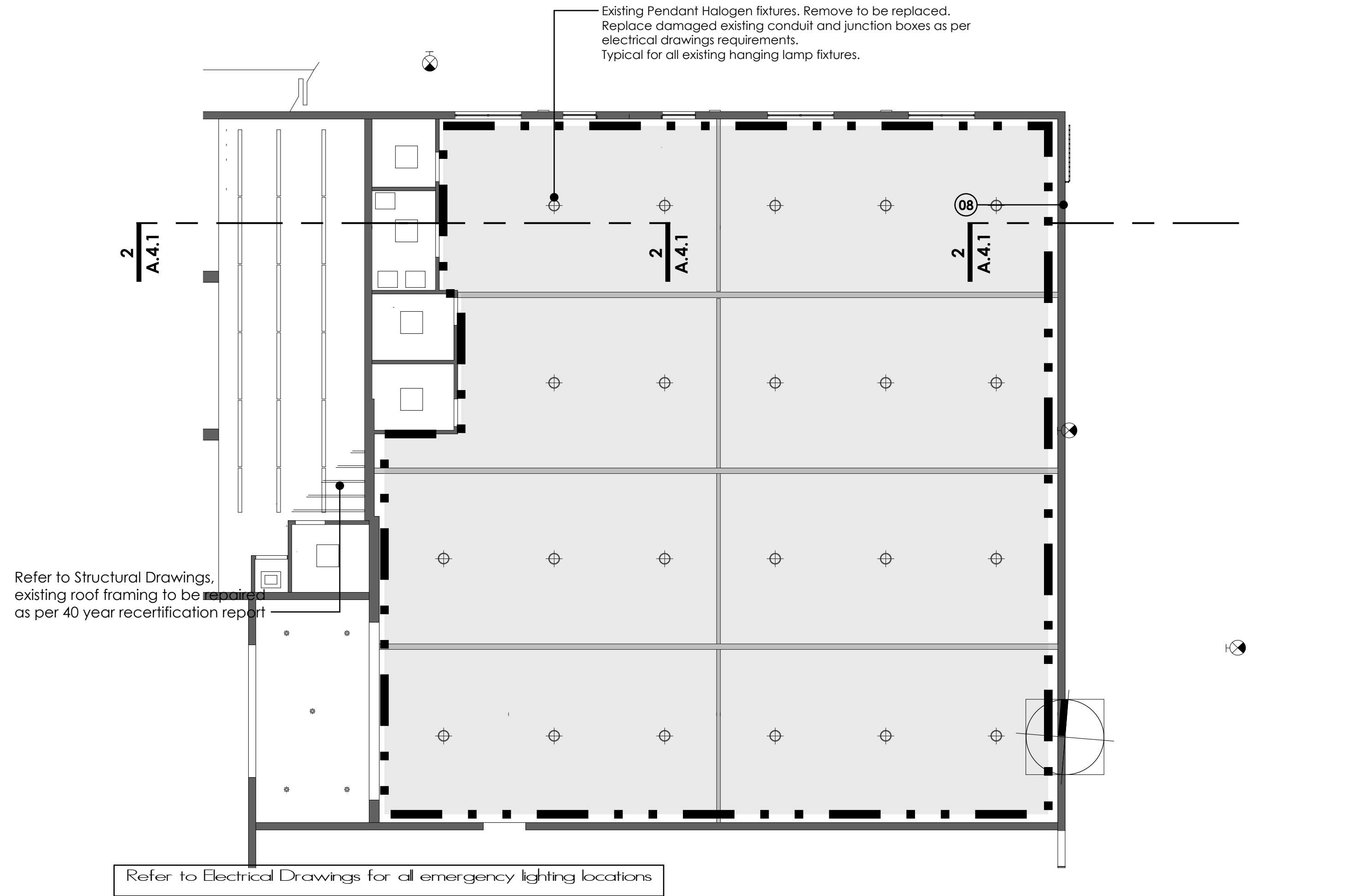
REVIEWED
MH

PROJ. NO.
01-2887-2022

SHEET NO. A.2.0 Revised Sheet

Direct Light Fixture Replacement Layout

Revisions shown are due to existing field conditions whereas the existing pendent halogen light fixtures level of electrical inefficiency and damage to their housings.
 All fixture replacements are high efficiency LED fixtures with lower power draw than the existing fixtures.
 All replacements are to be connected to existing to be to existing electrical connections.
 Existing electrical conduits and/or wiring to be repaired/replaced if required as per original permitted requirements.
New light fixtures DO NOT ADD ADDITIONAL LOAD. NEW LOADS ARE DECREASED BASED ON EXISTING FIXTURES.

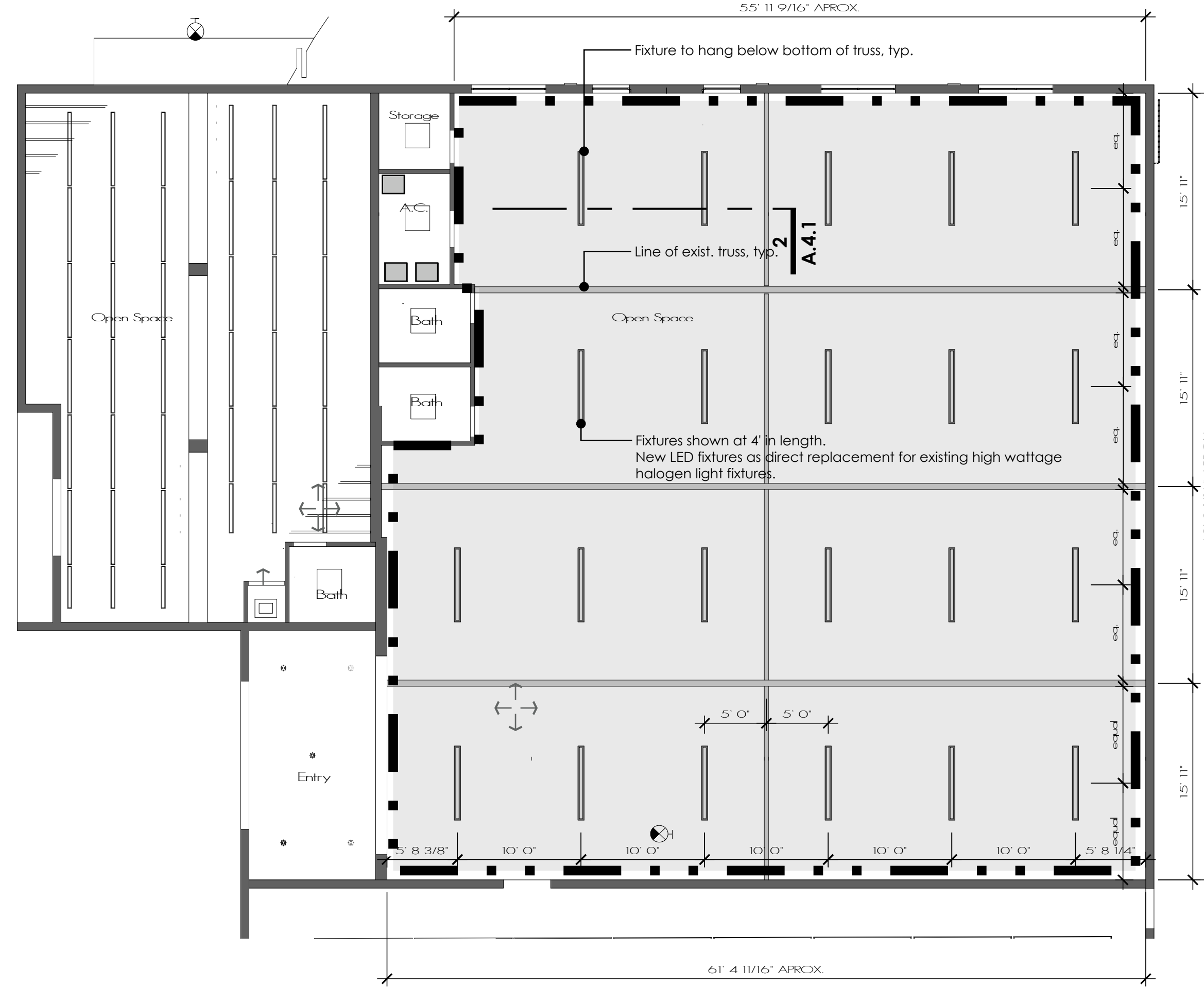


Ground Floor Bay 2 R.C. Lighting Plan
 1 Exist. High Wattage Halogen Fixtures

A-2.1

1/8" = 1'-0"

1
A.4.1



Ground Floor Bay 2 R.C. Lighting Plan
 2 New replacement LED Fixtures

A-2.1

1/8" = 1'-0"

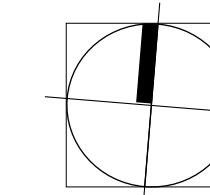
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A.4.1

DRAWING NOTES:

1. Existing damaged halogen fixtures and suspension cables are to be removed and replaced with new high efficiency LED pendant fixtures.
2. Existing damaged conduits, electrical wiring, and associated components shall be directly removed and replaced as per electrical drawings and originally permitted Level 1 40-year recertification requirements.
3. All electrical connections are existing.
4. All replacement LED fixtures are to be installed in the same location and connected to same electrical connections as original fixtures to be removed.
5. Existing damaged electrical fixtures to be disposed of properly.
6. **NO NEW WORK IS TO BE UNDERTAKEN, DIRECT REMOVAL AND REPLACEMENT AS REQUIRED UNDER PERMITTED CATEGORY 1.**
7. **New fixtures are High Efficiency LED fixtures with a lower power requirements than the existing fixtures to be removed.**
8. **All replacement light fixtures to be:**
 - a. **Oricle light fixtures #OLS-DI-LED-2-S-4-D1000-U500-1C DIM10-MVOLT-40K-85-WH**
 All fixtures are 4' length.

LEGEND

- New Energy Saving Linear LED Fixtures
- Existing High Wattage Damaged Halogen Light Fixtures to be Replaced



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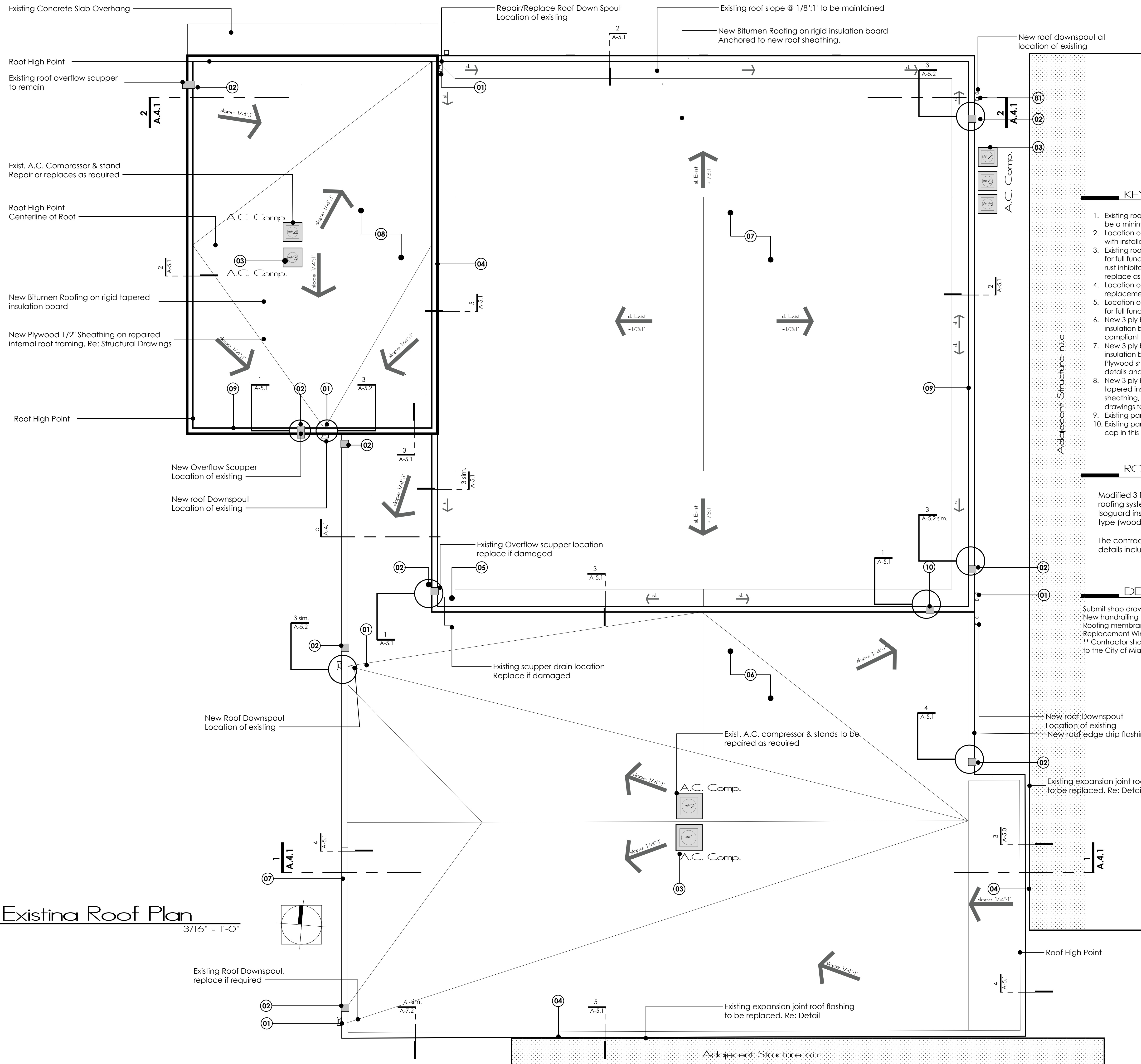
Jorge Andres Diaz
 AB100885

**2887-2897 40 Year
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 2887 & 2897 NW 5th LLC
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NO.	REVISION/SUBMISSION	DATE
1	Review Comments	3/27/23
2	Review Comments	4/24/23
3	Field Revision	9/3/23

PROJECT: 40 Year Recertification Repairs
 DRAWING: Reflected Ceiling Plans
 DATE: 11/22/2022
 SCALE: As Shown
 DRAWN: LFP
 REVIEWED: MH
 PROJ. NO.: 01-2887-2022
 SHEET NO.: NEW SHEET

A.2.1



KEY NOTES

- Existing roof scuppers. Repair and/or replace as required. Downspout to be a minimum of 5" diameter as per FBC 2020 requirements.
- Location of existing roof overflow scuppers to remain. Re-Flash as required with installation of new roofing membrane.
- Existing roof mounted AC compressors on metal stands. Clean as required for full functionality. Existing stands to remain, clean of any rust, prime with rust inhibitor, paint. Resecure base if required. If stand is damaged, replace as per Structural details. Submit shop drawings for A/E approval.
- Location of roof expansion joint locations. Replace as part of roof replacement scope of work. Refer to Details for requirements.
- Location of existing roof drainage scupper to remain. Repair as required for full functionality, as per details, and current FBC 2020 requirements.
- New 3 ply built up roofing (modified Bitumen) installed over existing roof insulation boards. Repair and/or replace existing insulation as required for compliant installation. Submit shop drawings for A/E approval.
- New 3 ply built up roofing (modified Bitumen) installed over new rigid insulation boards mechanically fastened to new 5/8" plywood sheathing. Plywood sheathing to be nailed to existing T & G roof sheathing. Refer to details and Structural drawings for requirements.
- New 3 ply built up roofing (modified Bitumen) installed over new rigid tapered insulation boards mechanically fastened to new plywood sheathing, on new roof truss members. Refer to details and Structural drawings for requirements.
- Existing parapet. Refer to details for new flashing requirements.
- Existing parapet. New roofing membrane to underside of metal parapet cap in this location. Refer to details for requirements.

ROOF REPAIR & REPLACEMENT REQUIREMENTS

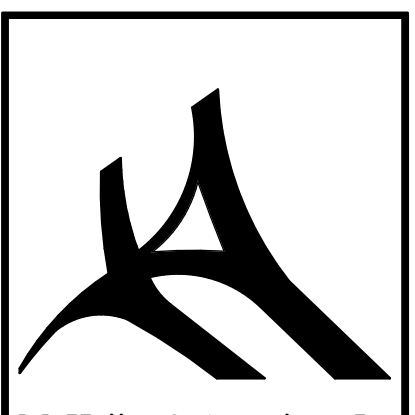
Modified 3 Ply Bitumen Roofing called for in this drawings is to be Firestone SBS 3 ply roofing system, NOA # 16-0628.05. Expiration 03/08/26 installed over Firestone Isoguard insulation board. Exact board type to be determined based on substrate type (wood sheathing or concrete decking).

The contractor shall submit for A/E approval complete shop drawings with all details including current Florida N.O.A. documentation.

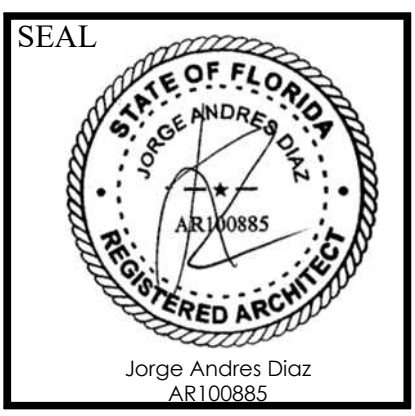
DEFERED SUBMITTAL LIST

- Submit shop drawings for A/E for approval for following items:
 New handrailing to be installed.
 Roofing membrane assembly with current N.O.A.
 Replacement Windows with N.O.A.
 ** Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.

1 Existing Roof Plan
 A-2.1 3/16" = 1'-0"



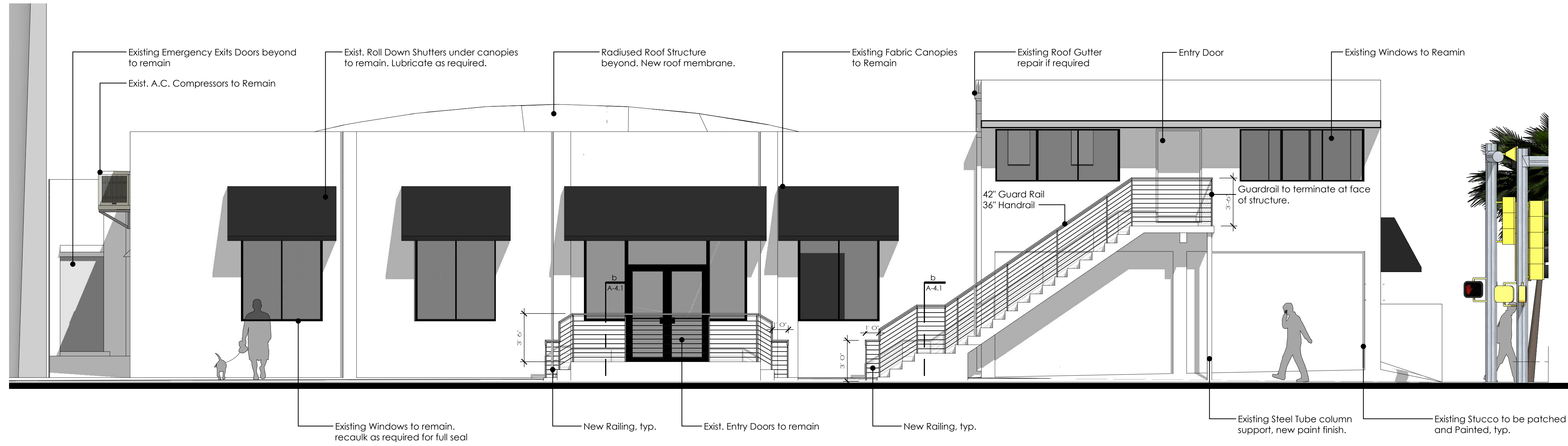
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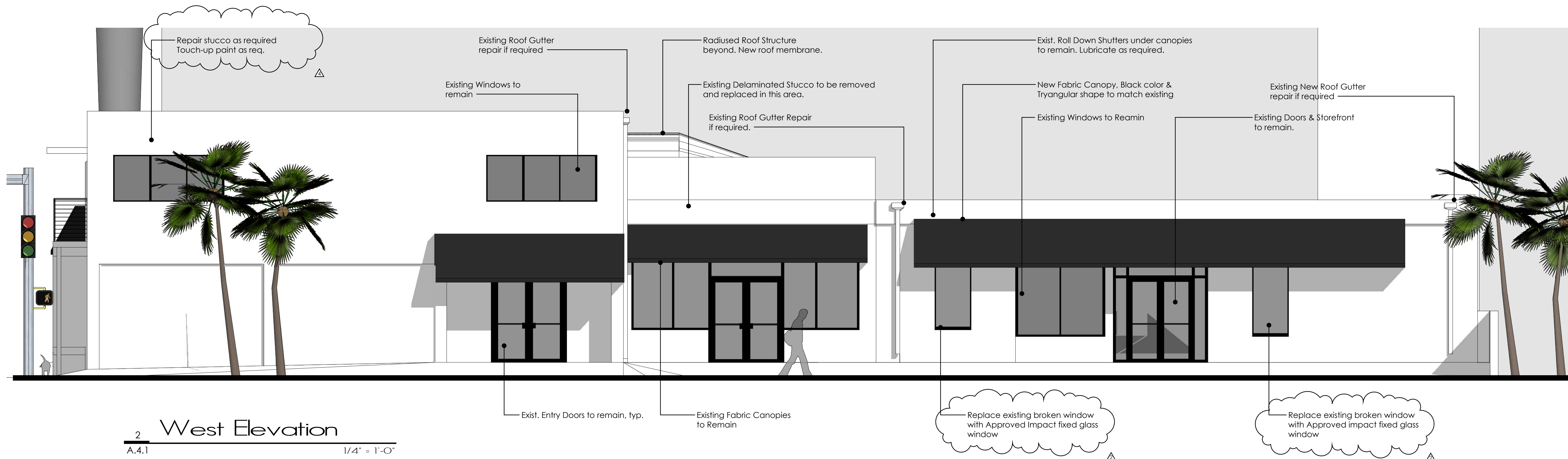
**2887-2897 40 Year
 Recertification Repairs**
 2887 & 2897 NW 5th LLC
 2887-89N.W. 5th Avenue, Miami, Florida 33015

NO.	REVISION/SUBMISSION	DATE
1	Review Comments	3/27/23

PROJECT	40 Year Recertification Repairs
DRAWING	Roof Plan - Repairs
DATE	11/22/2022
SCALE	As Shown
DRAWN	LFP
REVIEWED	MH
PROJ. NO.	01-2887-2022
SHEET NO.	A.3.0



1 North Elevation
 A.4.1 1/4" = 1'-0"



2 West Elevation
 A.4.1 1/4" = 1'-0"

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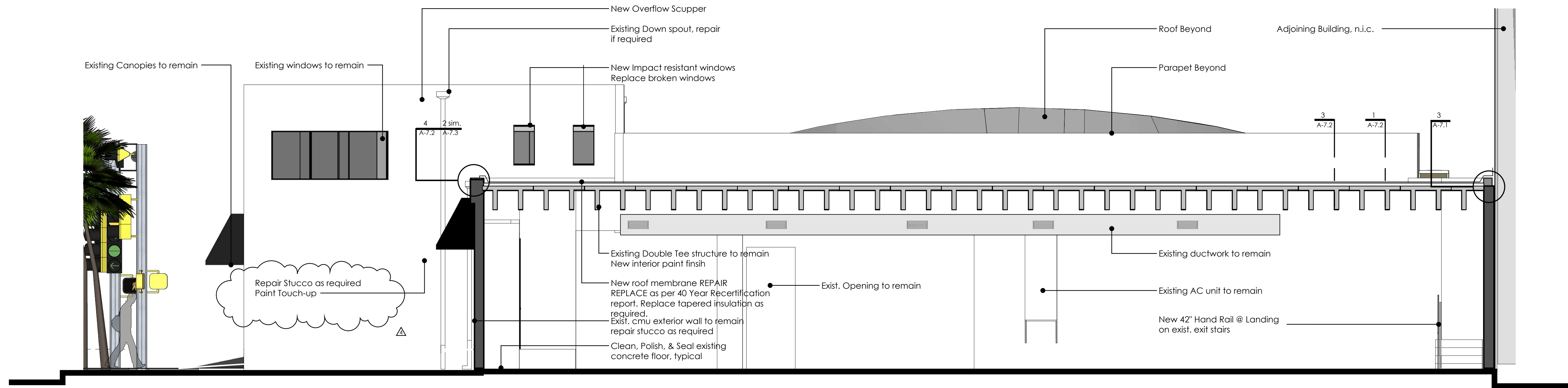
SEAL
 STATE OF FLORIDA
 JORGE ANDRES DIAZ
 REGISTERED ARCHITECT
 Jorge Andres Diaz
 AS100885

2887-2897 40 Year
 Recertification Repairs
 2887 & 2897 NW 5th LLC
 2887-89N.W. 5th Avenue, Miami, Florida 33015

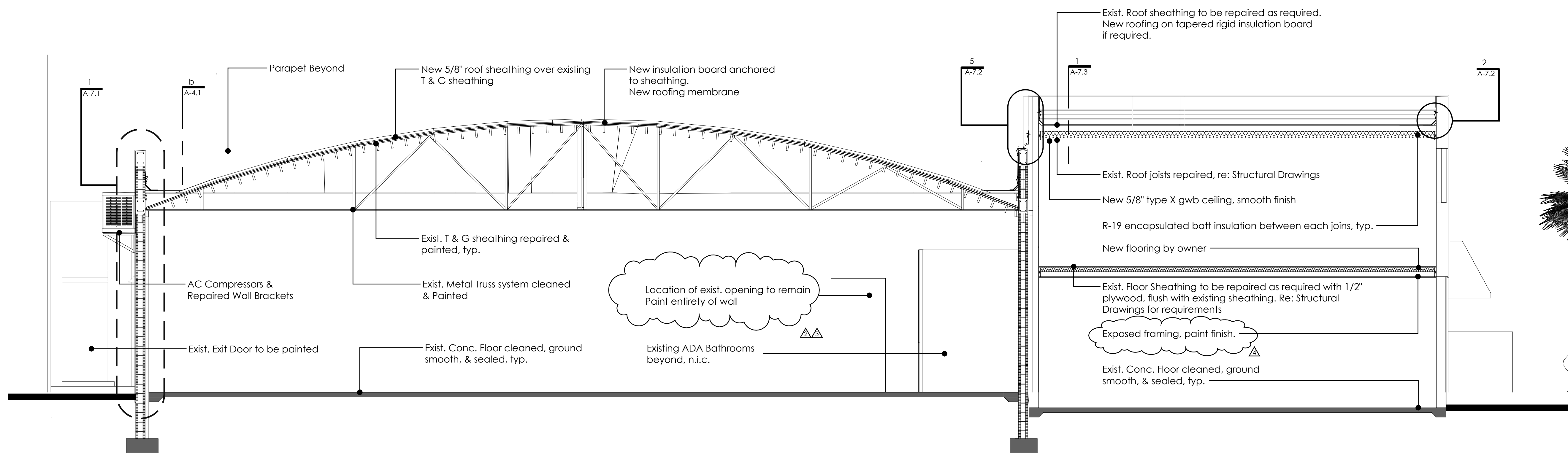
NO.	REVISION/SUBMISSION	DATE
△	Review Comments	2/10/23
△	Review Comments	3/27/23
△	Field Revisions	9/3/23

PROJECT 40 Year Recertification Repairs Elevations
 DRAWING Elevations
 DATE 11/22/2022
 SCALE As Shown
 DRAWN LFP
 REVIEWED MH
 PROJ. NO. 01-2887-2022
 SHEET NO.

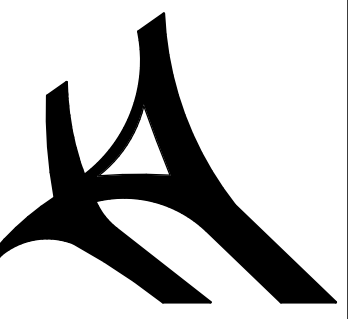
A.4.0



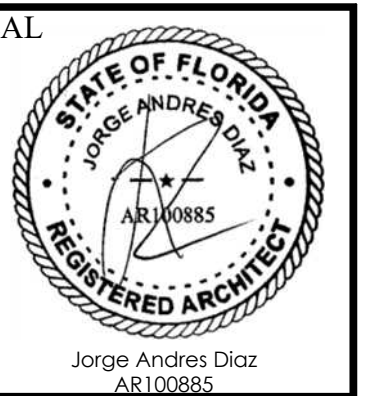
1 South Elevation - Section
A.5.1 1/4" = 1'-0"



2 North Section
A.4.1 1/4" = 1'-0"



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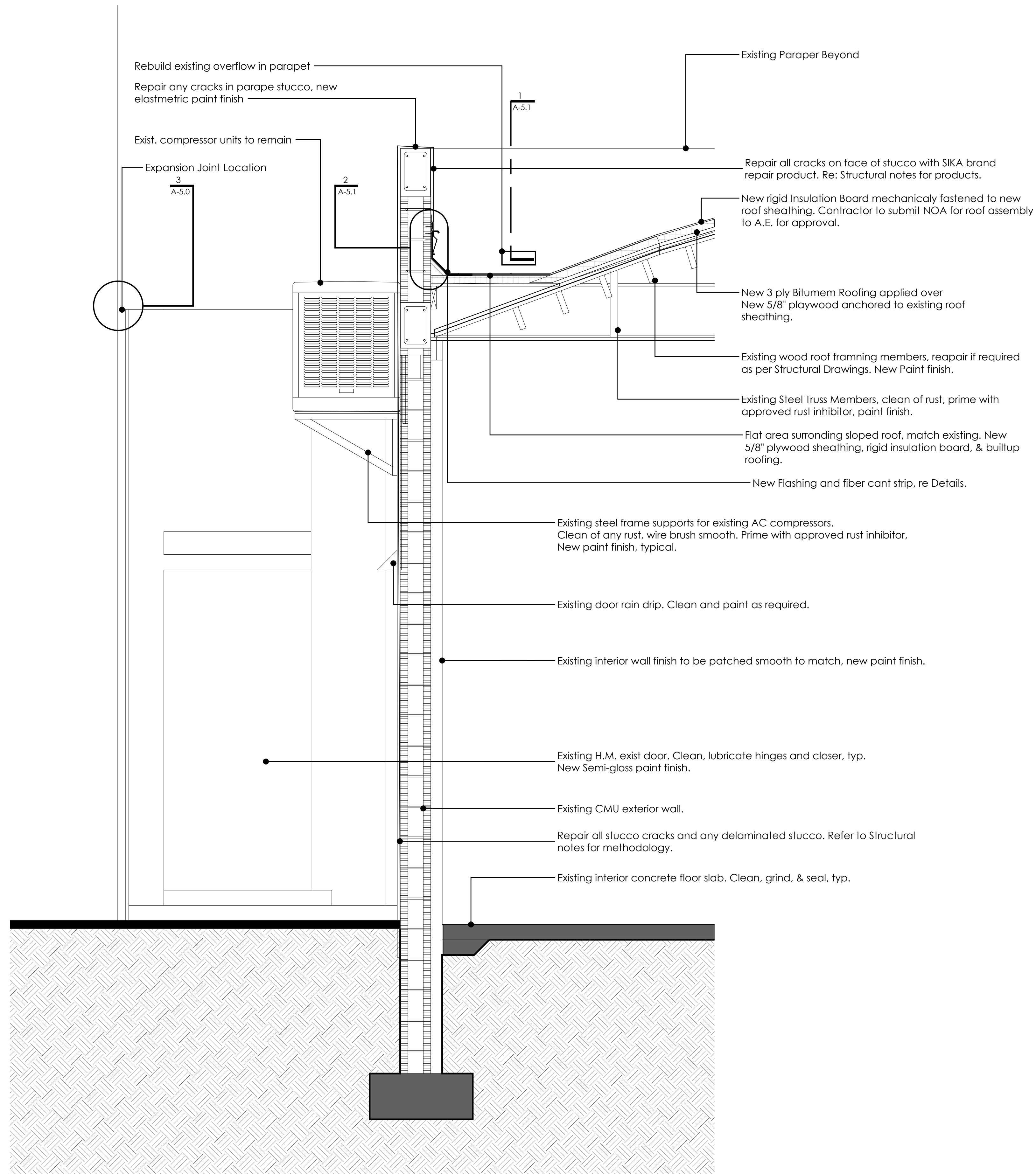


2887-2897 40 Year
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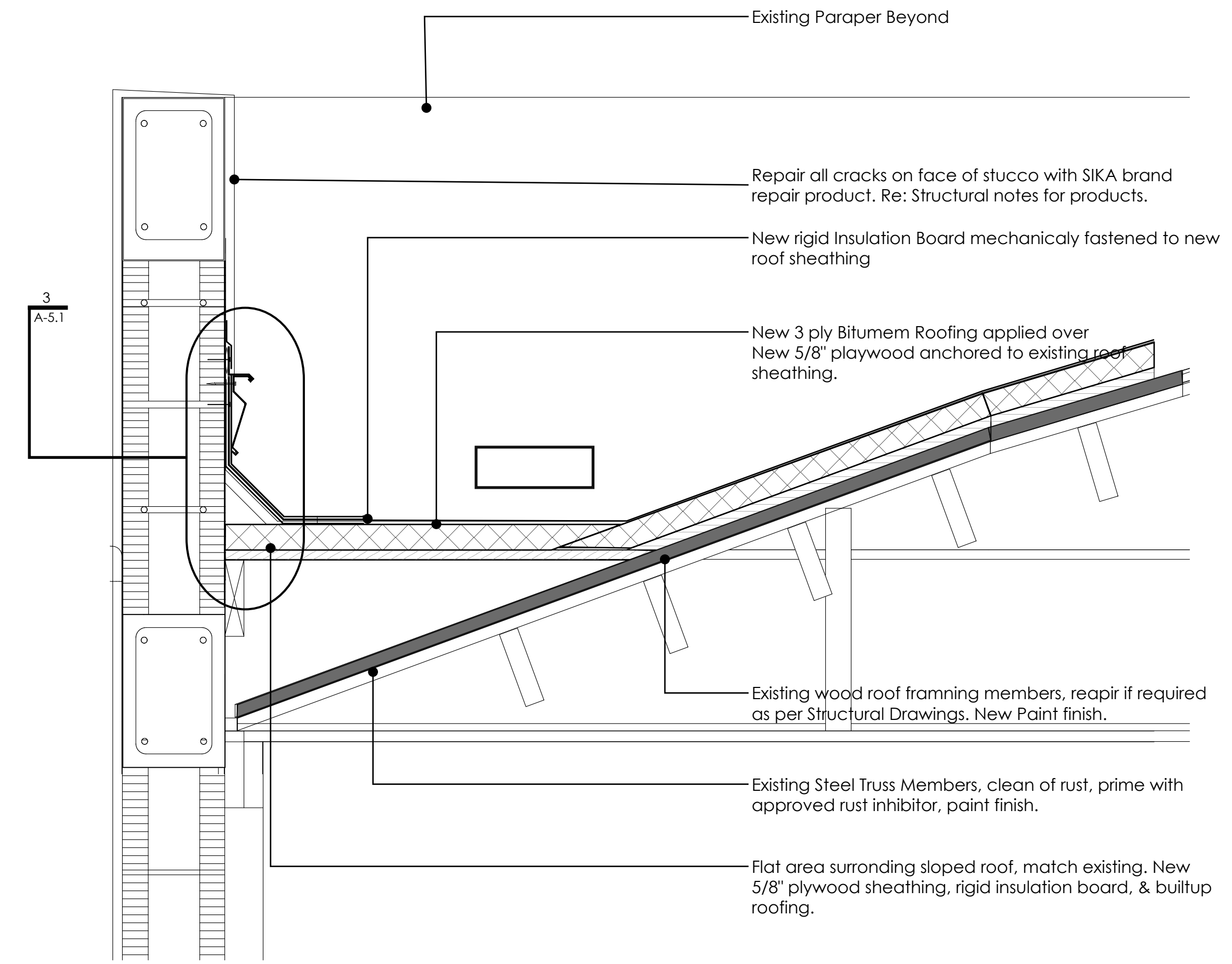
NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2	Review Comments	3/27/23
3	Review Comments	4/24/23
4	Field Revisions	9/3/23

PROJECT	40 Year Recertification Repairs
DRAWING	Elevation / Sections
DATE	11/22/2022
SCALE	As Shown
DRAWN	LFP
REVIEWED	MH
PROJ. NO.	01-2887-2022
SHEET NO.	

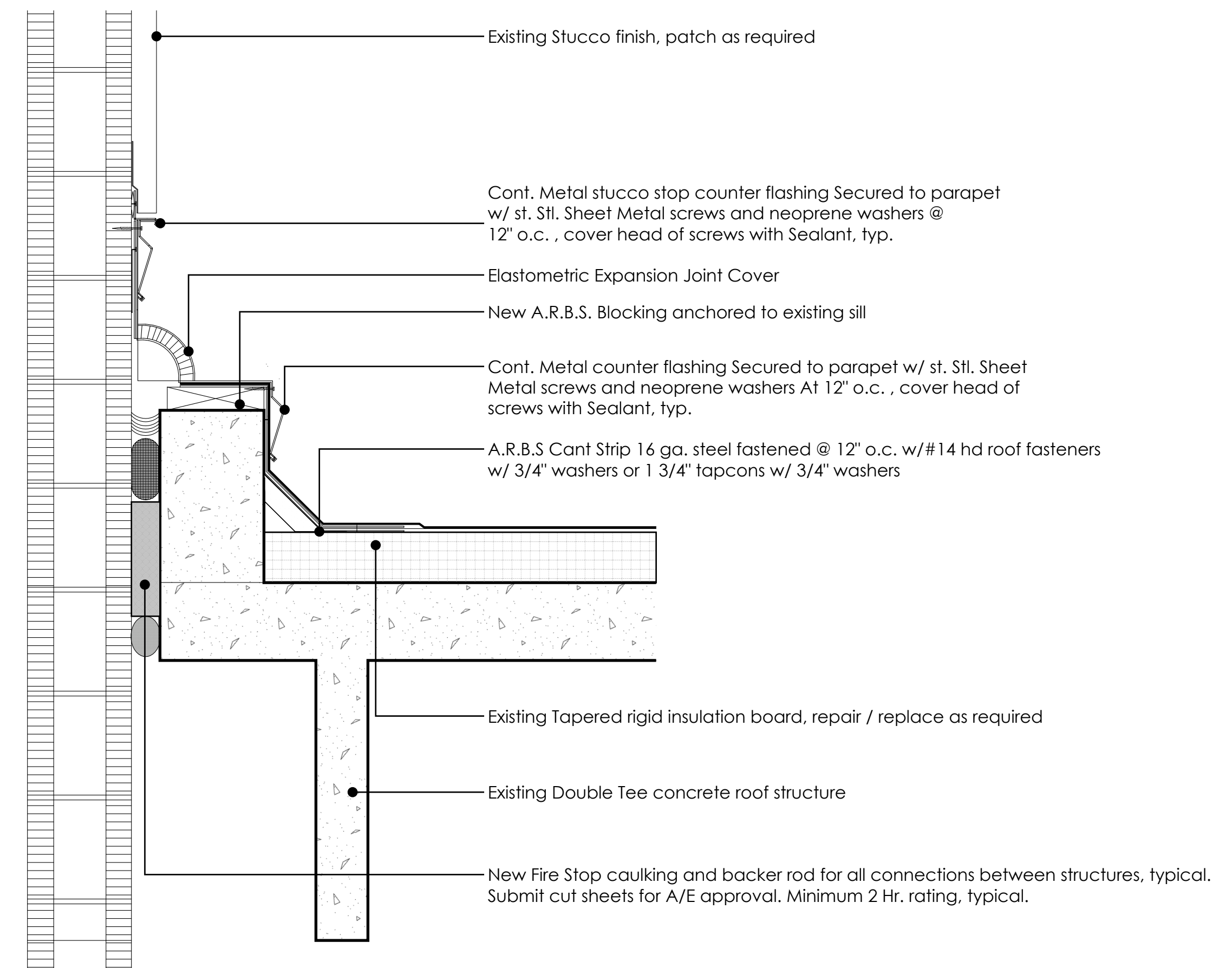
A.4.1



1 Wall Section No. 1 - Existing
A.5.0 3/4" = 1'-0"



2 Roof Parapet Section
A.5.0 1-1/2" = 1'-0"

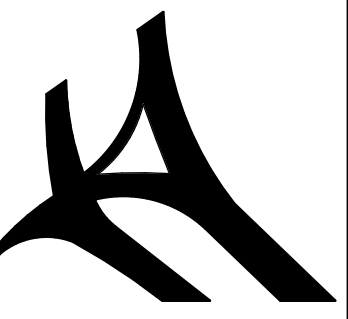


3 Roof Expansion Joint 1 - Existing
A.5.0 1-1/2" = 1'-0"

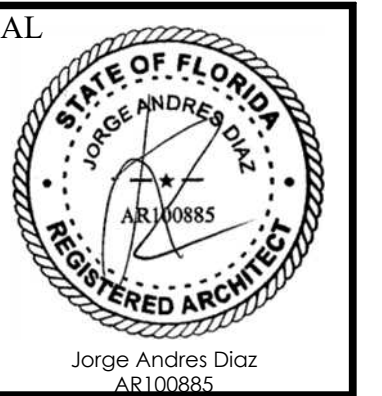
ROOF REPAIR MEMBRANE REQUIREMENTS

Modified 3 Ply Bitumem Roofing called for in this drawings is to be Firestone SBS 3 ply roofing system, NOA # 16-0628.05, Expiration 03/08/26 installed over Firestone Isoguard insulation board. Exact board type to be determined based on substrate type (wood sheathing or concrete decking). Roof Details are shown as a guide, actual EXISTING CONDITIONS MAY VARY.

The contractor shall submit for A/E approval complete shop drawings with all details including current Florida N.O.A. documentation.



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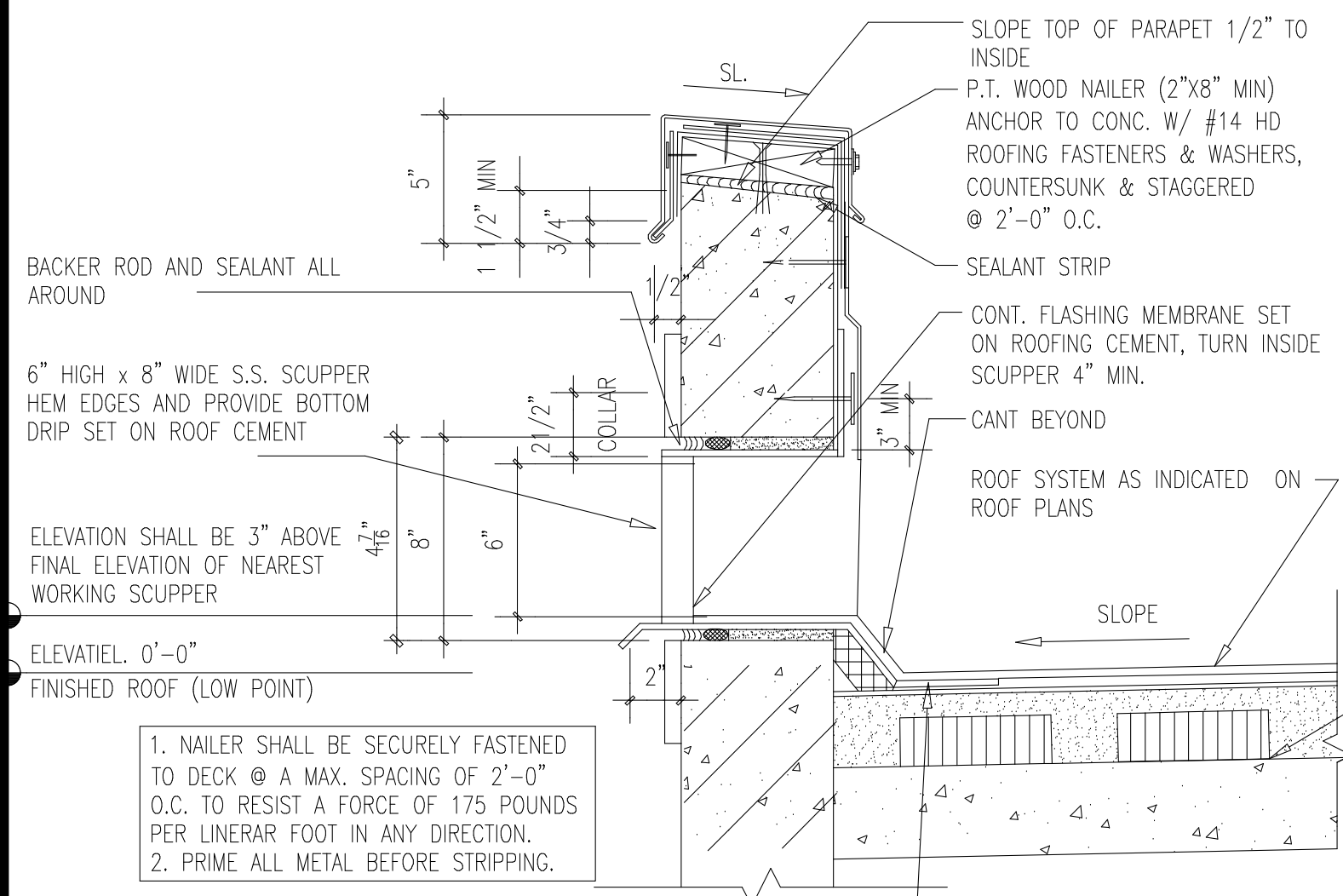


2887-2897 40 Year
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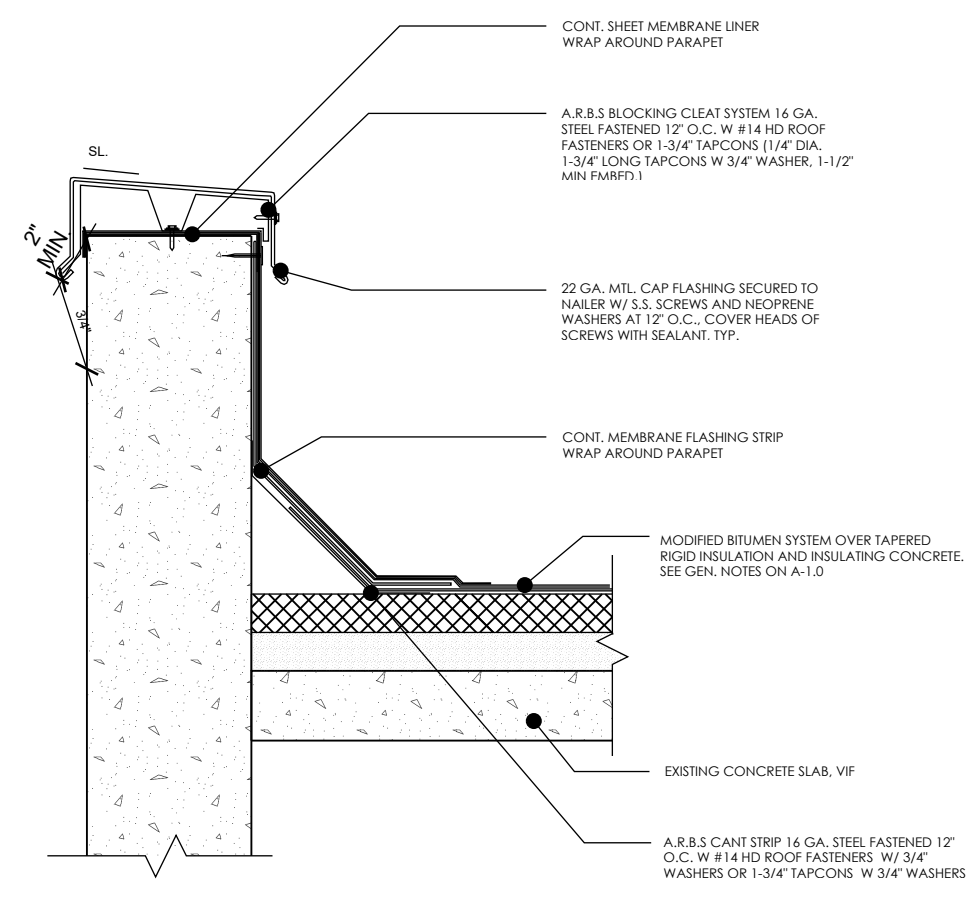
NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2	Review Comments	3/27/23
3		
4		
5		

PROJECT: 40 Year Recertification Repairs
DRAWING: Sections / Details
DATE: 11/22/2022
SCALE: As Shown
DRAWN: LFP
REVIEWED: MH
PROJ. NO.: 01-2887-2022
SHEET NO.:

A.5.0



1 Overflow Scupper
A.5.1 1-1/2" = 1'-0"



2 Parapet Flashing
A.5.1 1-1/2" = 1'-0"

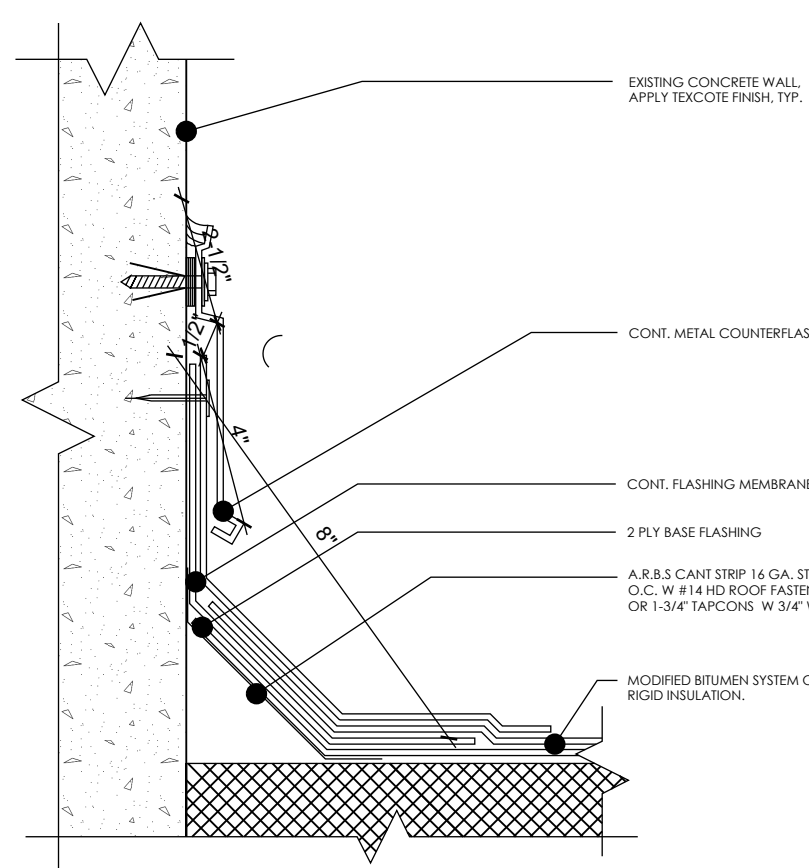
ROOF REPAIR MEMBRANE REQUIREMENTS

Modified 3 Ply Bitumen Roofing called for in this drawings is to be Firestone SBS 3 ply roofing system, NOA # 16-0628.05. Expiration 03/08/26 installed over Firestone Isoguard insulation board. Exact board type to be determined based on substrate type (wood sheathing or concrete decking). Roof Details are shown as a guide, actual EXISTING CONDITIONS MAY VARY.

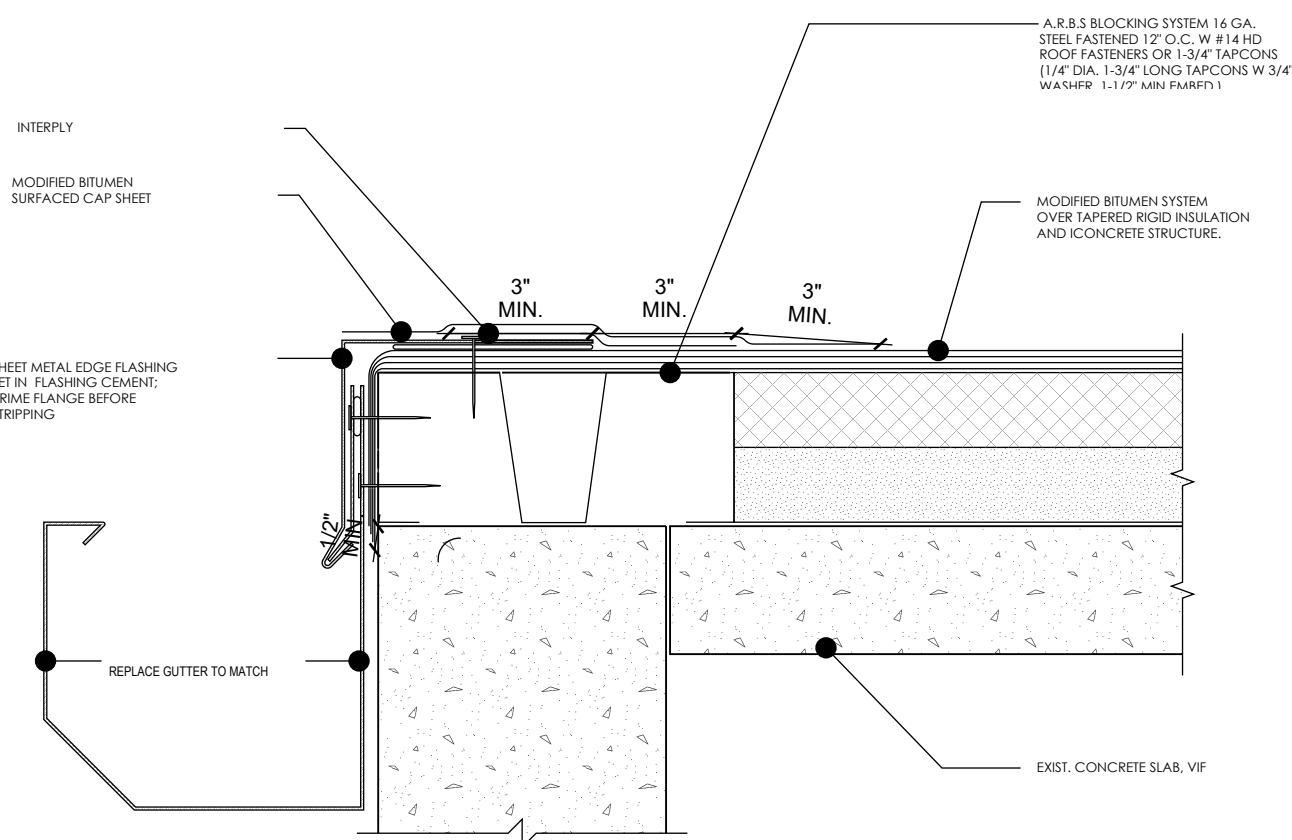
The contractor shall submit for A/E approval complete shop drawings with all details including current Florida N.O.A. documentation.

DEFERRED SUBMITTAL LIST

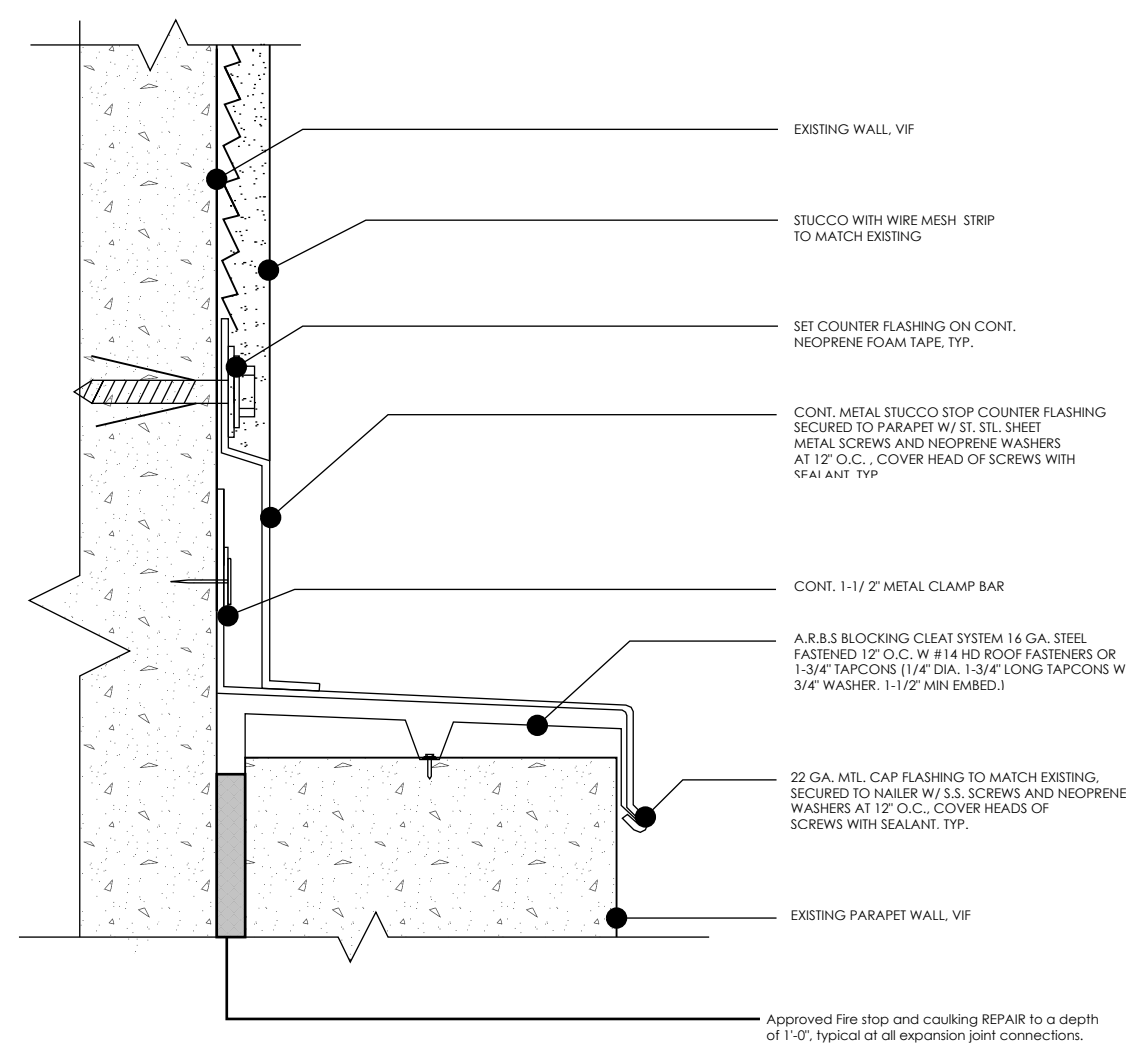
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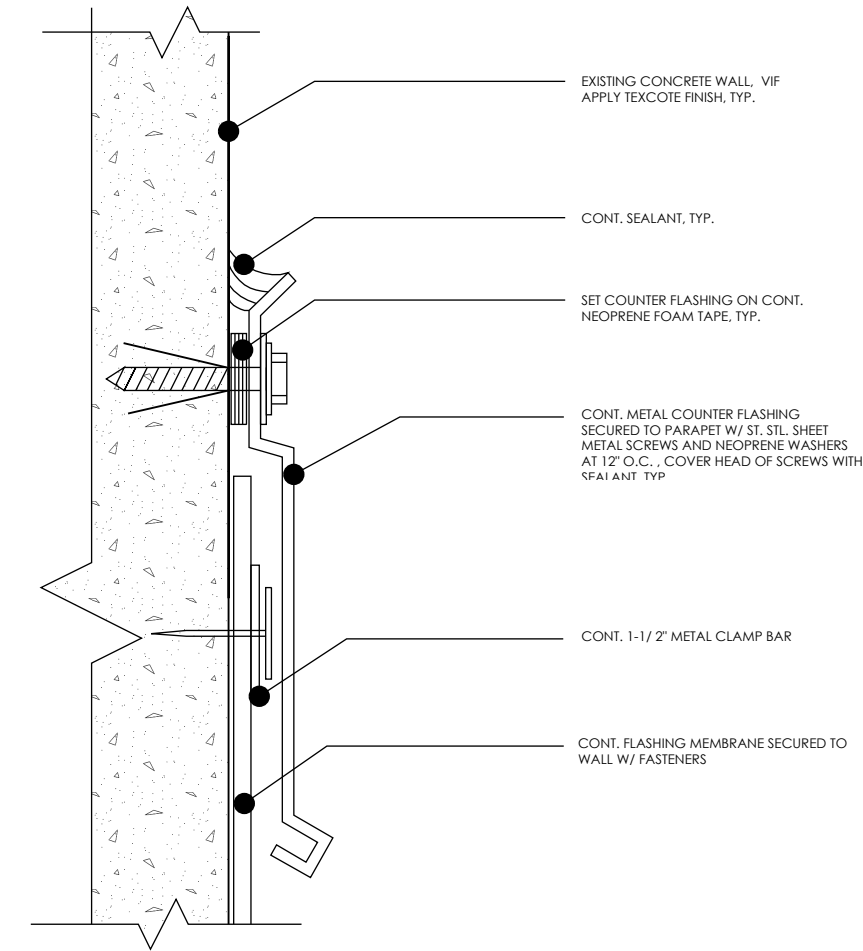
3 Flashing Detail
5.1 1-1/2" = 1'-0"



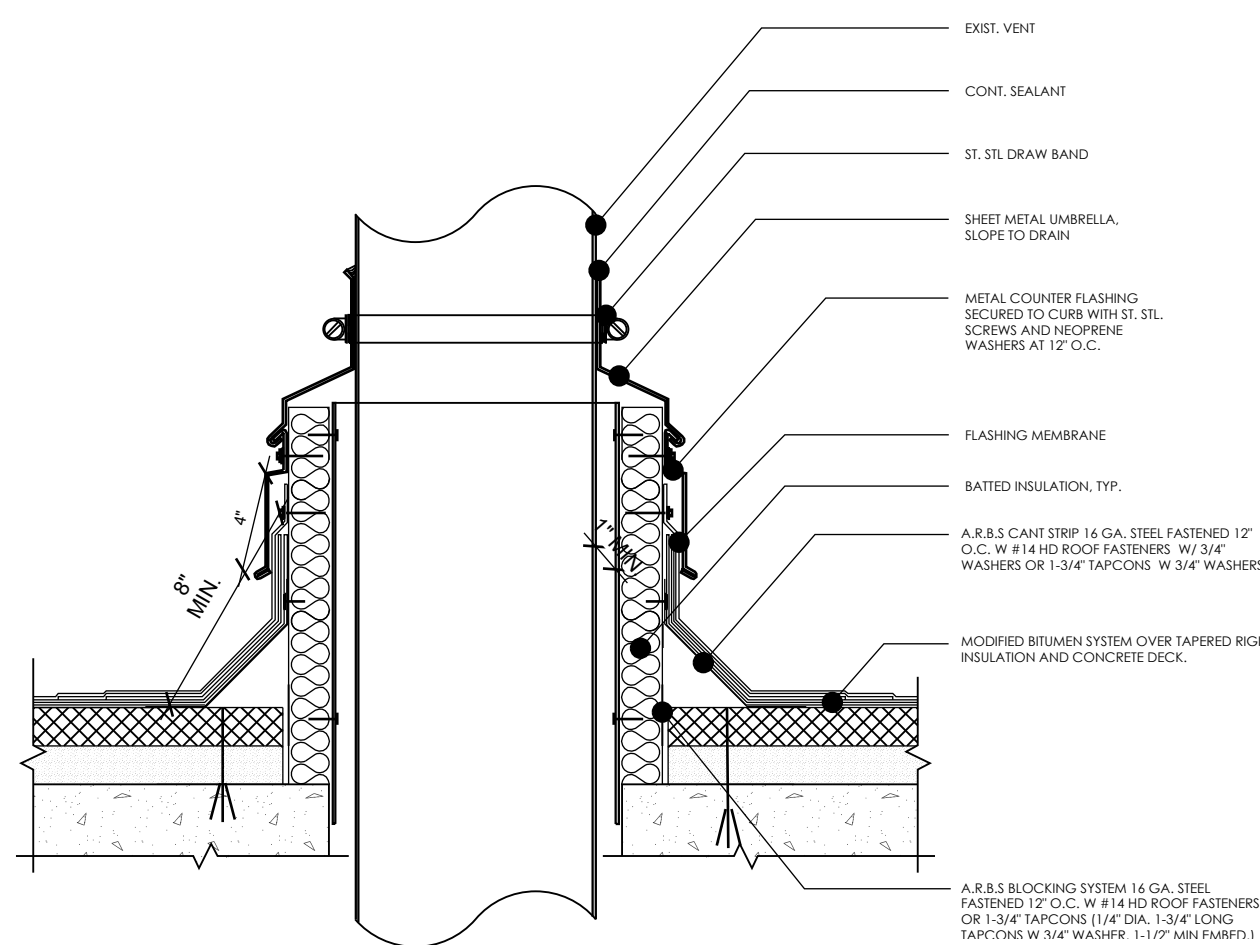
4 Roof Edge Flashing
A.5.1 1-1/2" = 1'-0"



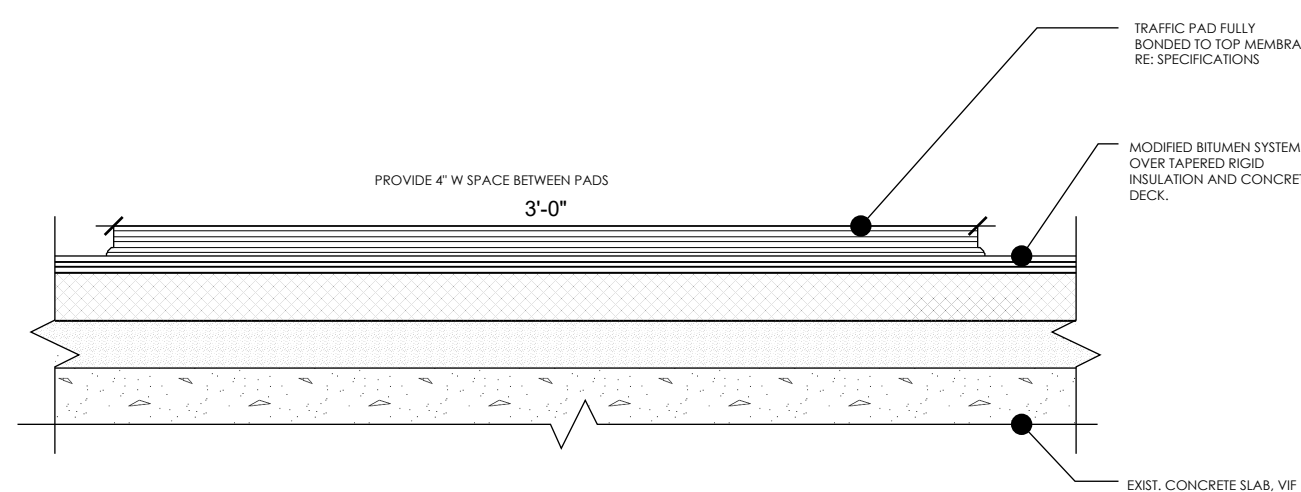
5 Roof Expansion Joint
A.5.1 1-1/2" = 1'-0"



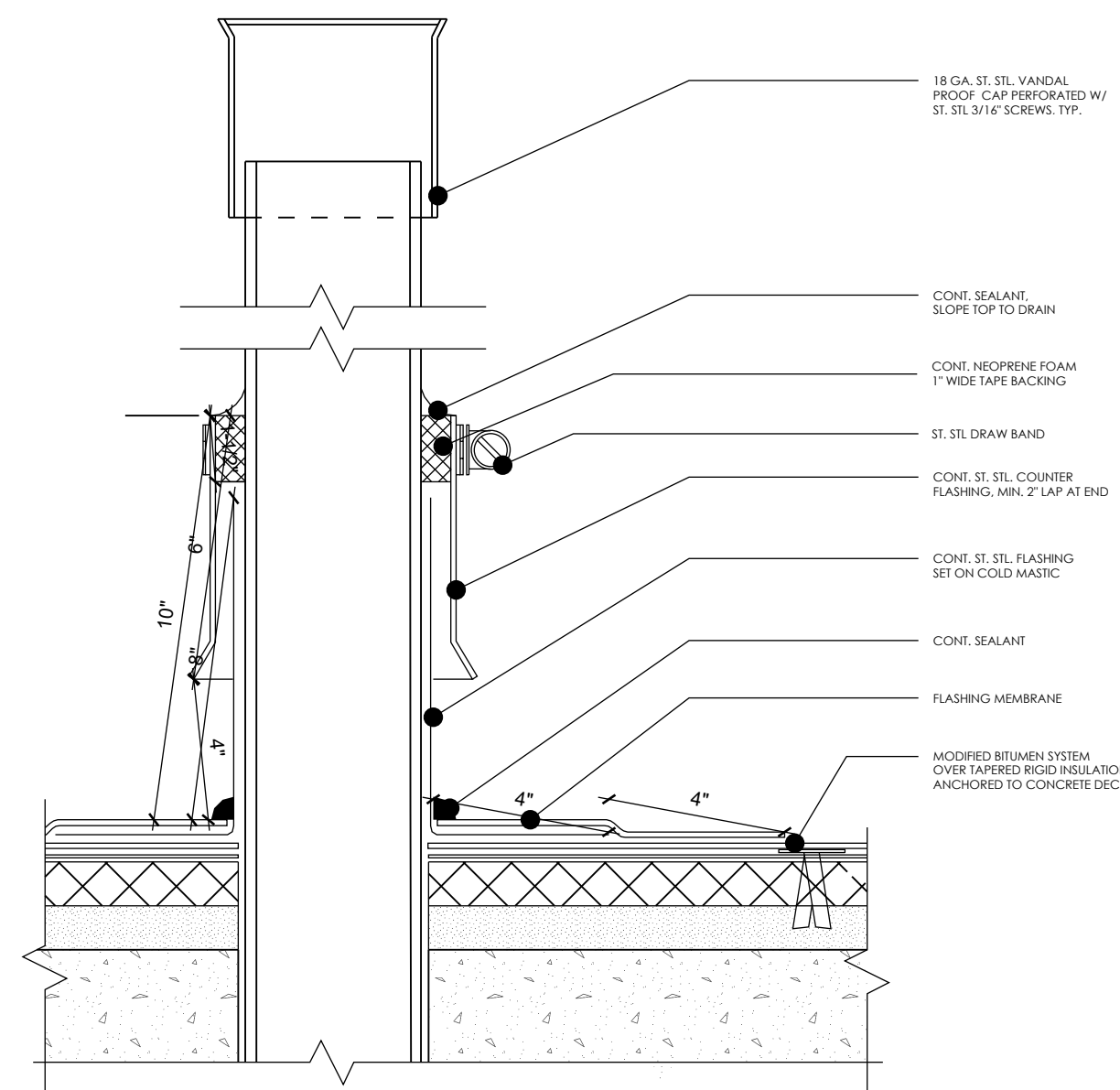
6 Counter Flashing
A.5.1 1-1/2" = 1'-0"



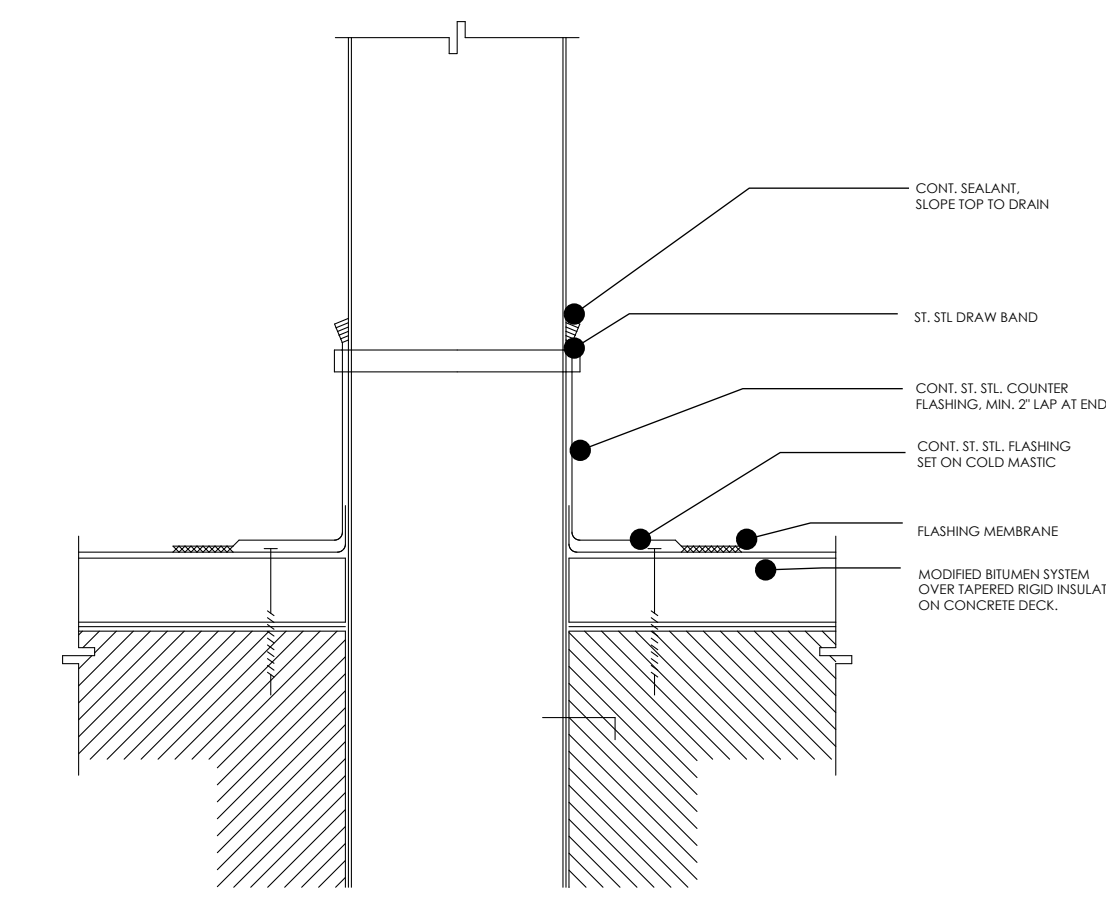
6 Roof Penetration no. 1
A.5.1 1-1/2" = 1'-0"



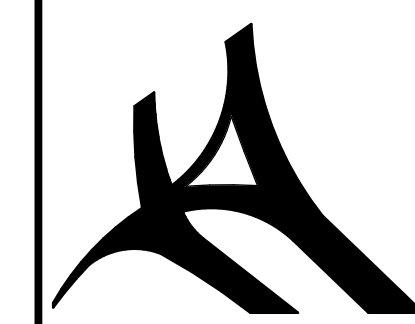
7 Roof Traffic Pad Detail
A.5.1 1-1/2" = 1'-0"



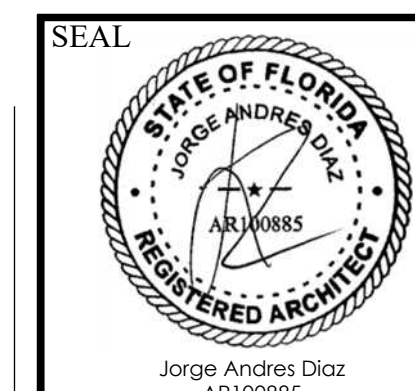
8 Roof Vent Detail
A.5.1 1-1/2" = 1'-0"



9 Roof Penetration no. 2
A.5.1 1-1/2" = 1'-0"

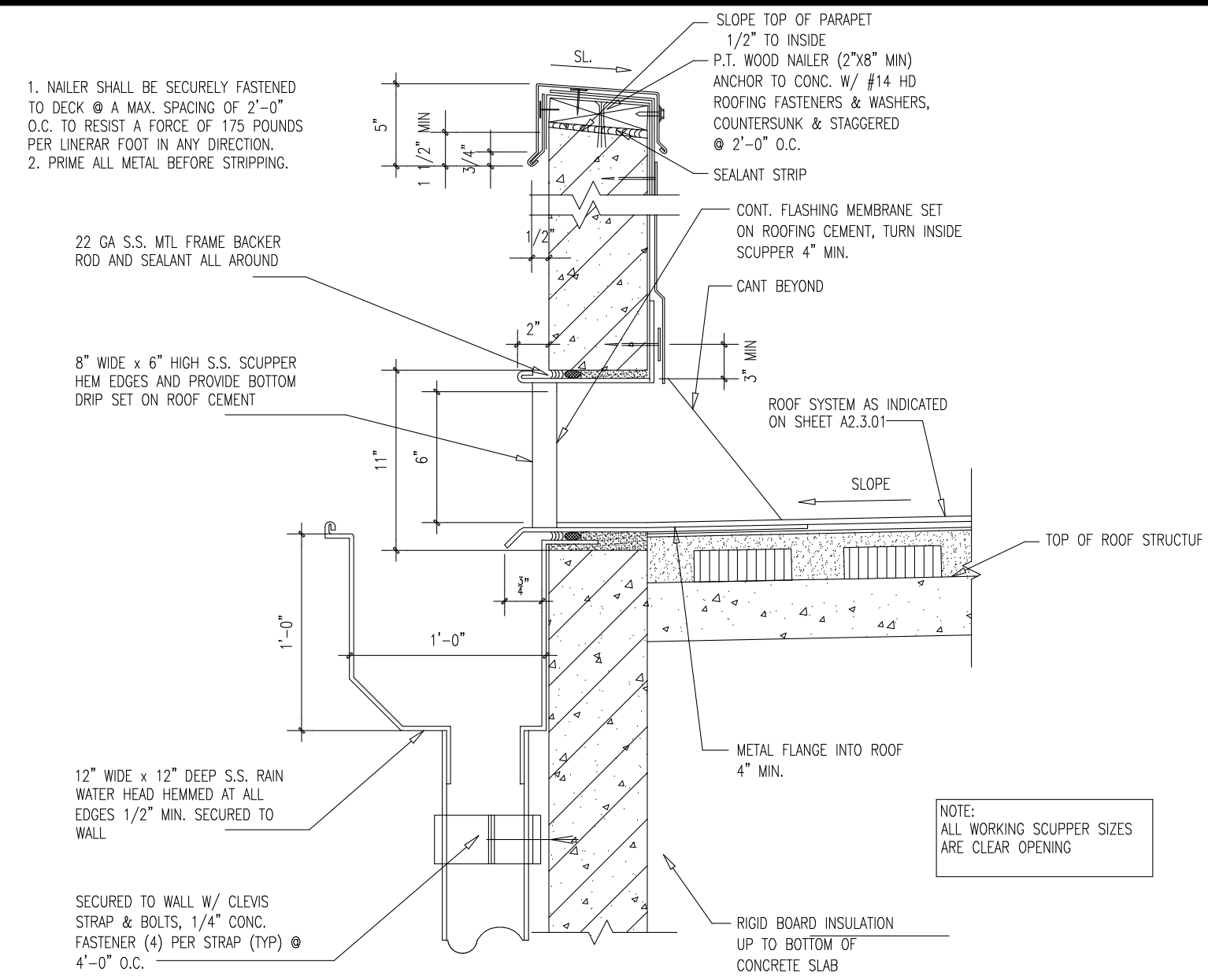


M. Hajjar & Associates Inc
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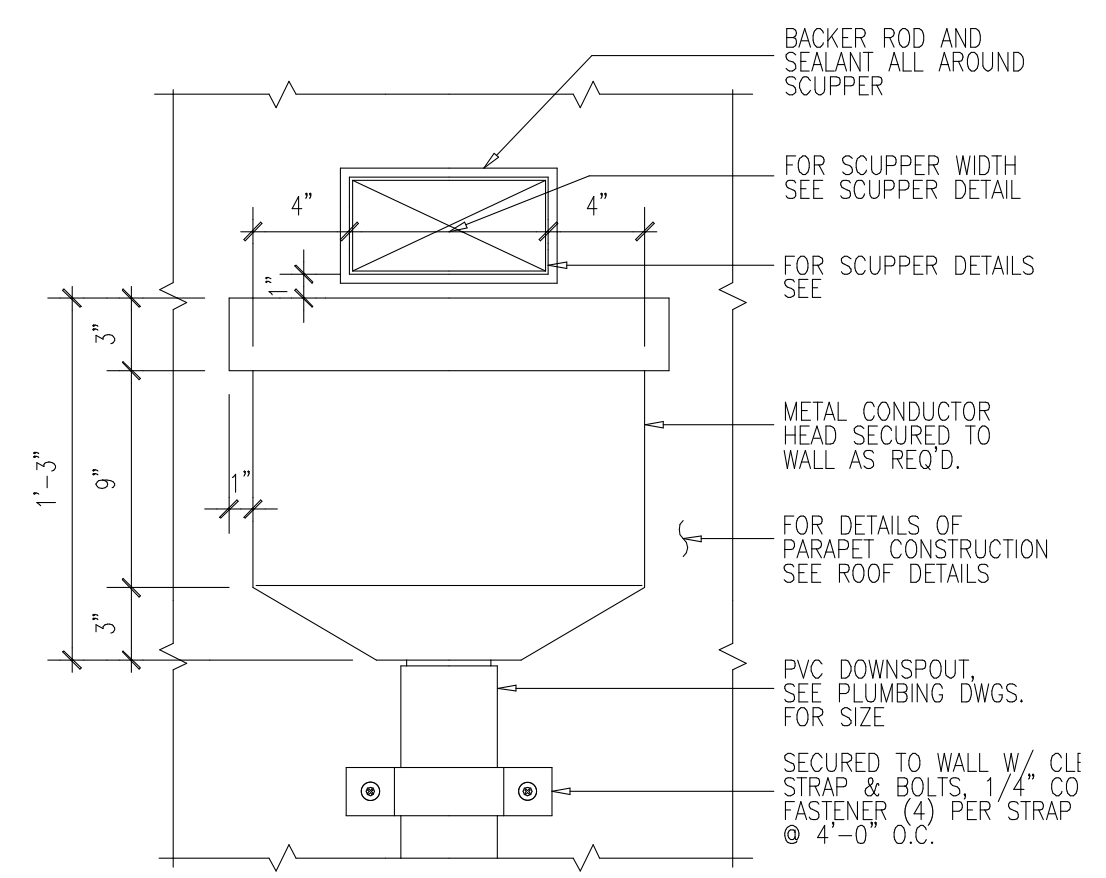


2887-2897 40 Year
Recertification Repairs
2887 & 2897 NW 5th LLC
2887-89N.W. 5th Avenue, Miami, Florida 33015

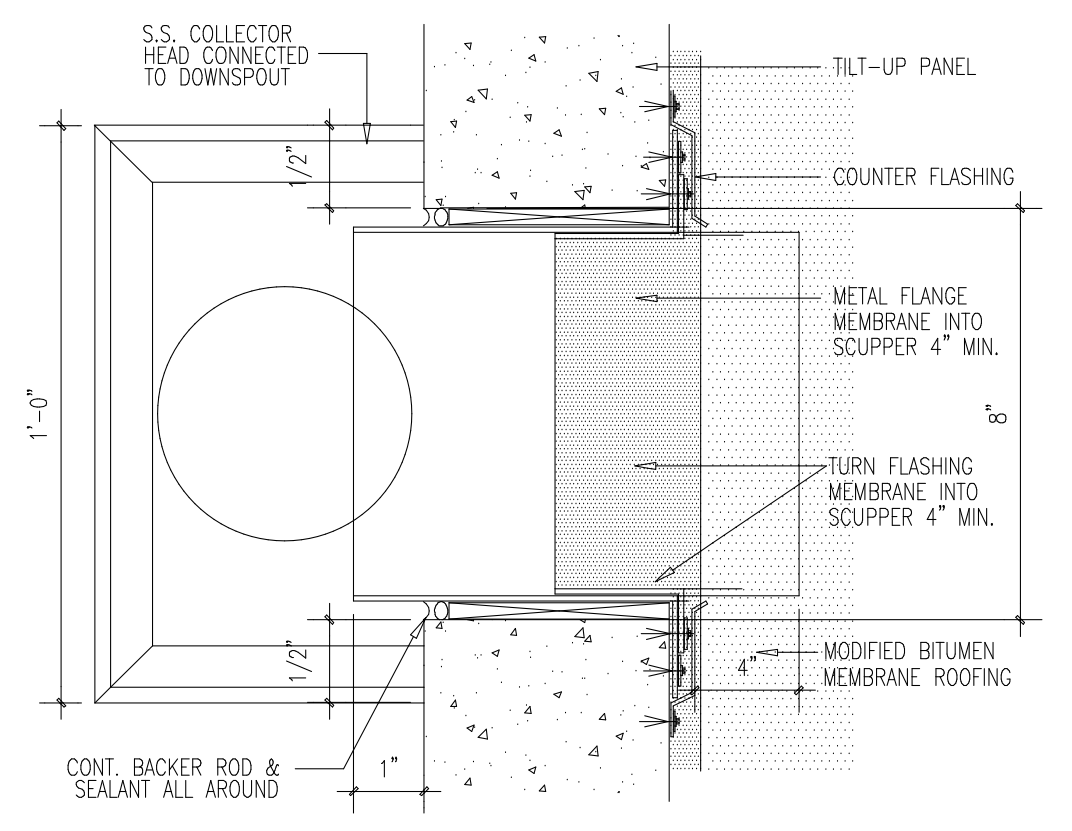
NO.	REVISION/SUBMISSION	DATE
1	Review Comments	2/10/23
2	Review Comments	3/27/23
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PROJECT		
40 Year Recertification Repairs		
DRAWING		
Details		
DATE		
11/22/2022		
SCALE		
As Shown		
DRAWN		
LFP		
REVIEWED		
MH		
PROJ. NO.		
01-2887-2022		
SHEET NO.		
A.5.1		



1 **Overflow Scupper**
A.5.2 1-1/2" = 1'-0"



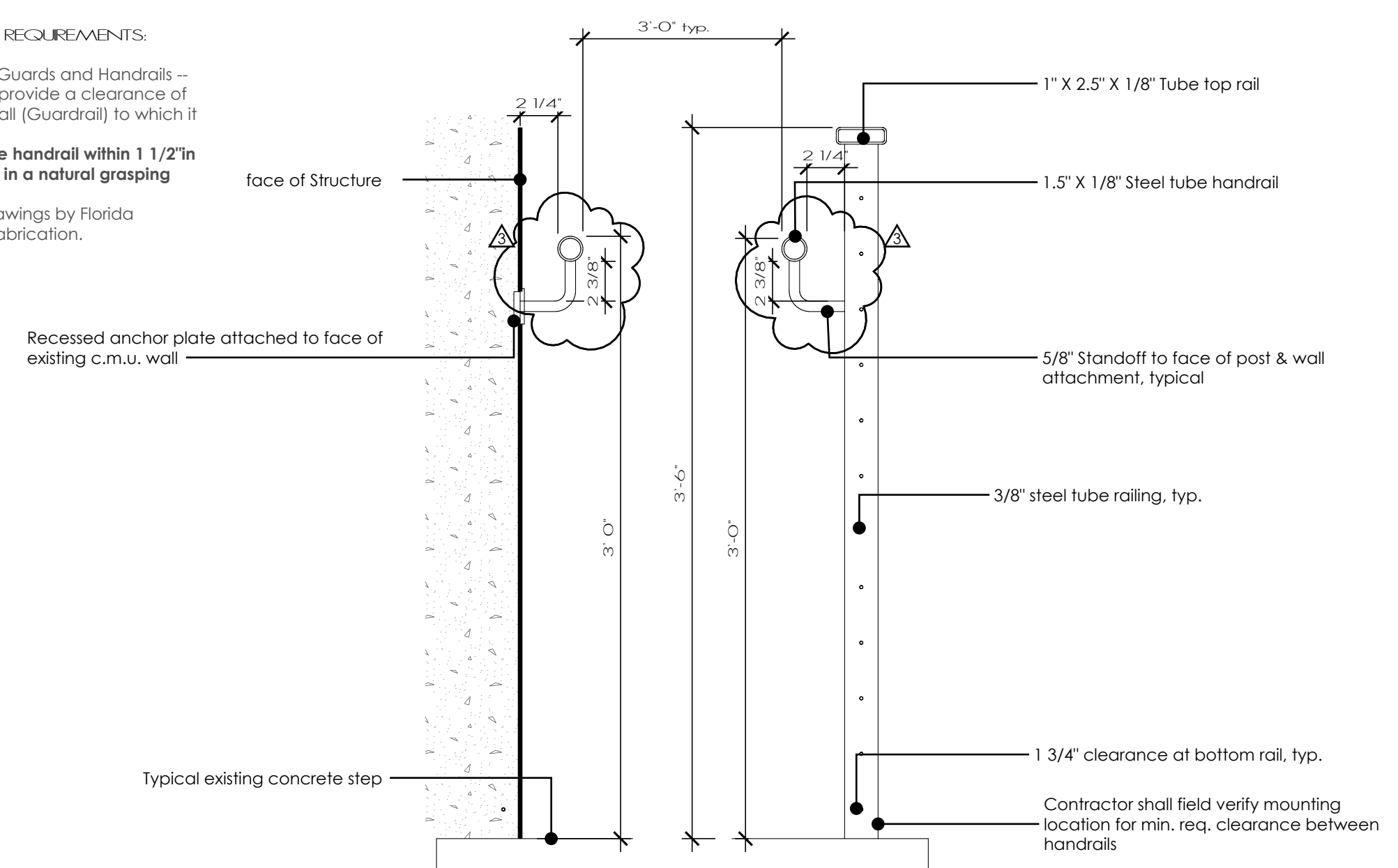
3 **Roof Scupper Elev.**
A.5.2 1-1/2" = 1'-0"



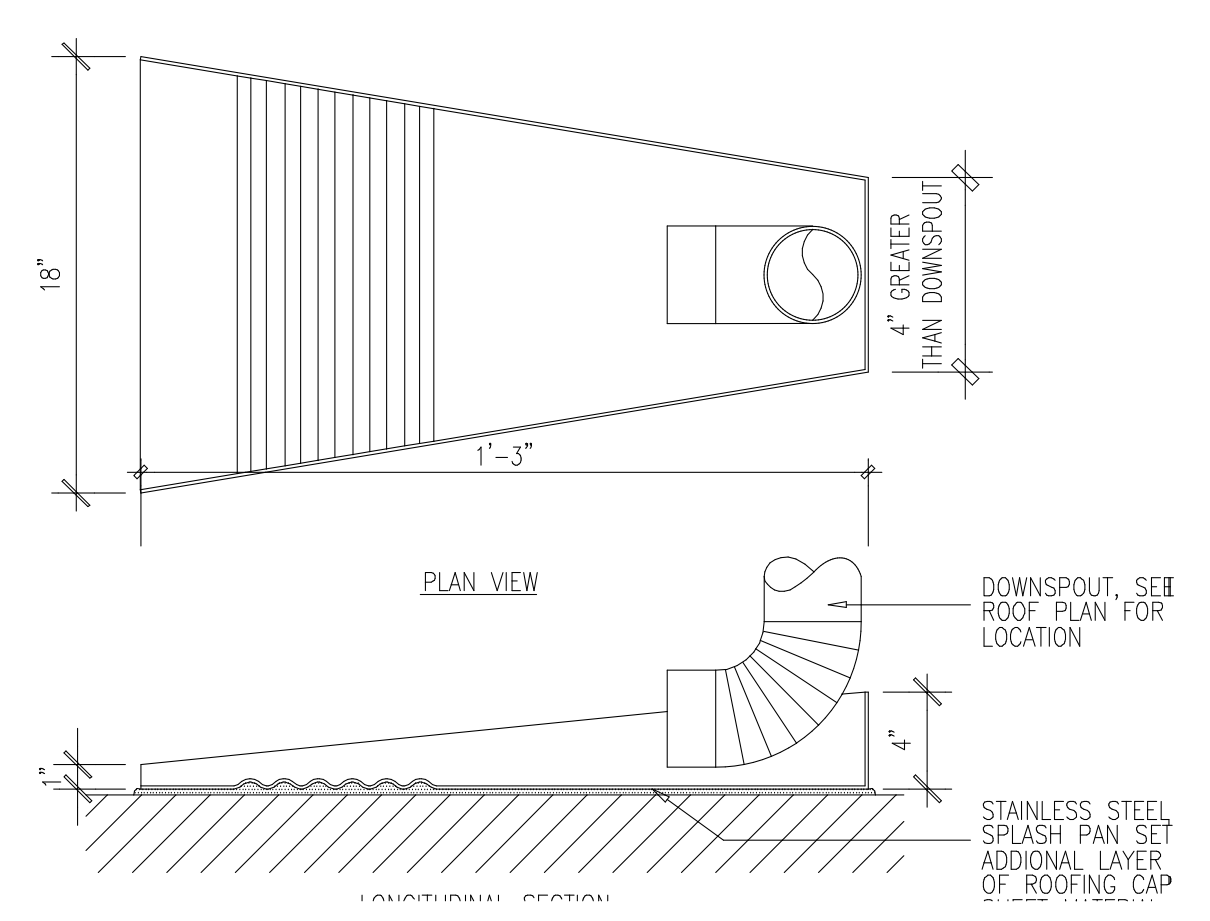
4 **Roof Scupper Plan**
A.5.2 1-1/2" = 1'-0"

HANDRAILING SHOP DRAWING & FABRICATION REQUIREMENTS:

Handrailing to conform to NFPA 101 - Section 7.2.2.4 - Guards and Handrails - Section 7.2.2.4.5.5 - New handrails shall be installed to provide a clearance of not less than 2 1/4" in. between the handrail and the wall (Guardrail) to which it is fastened. And Section 7.2.2.4.5.8 - Handrail brackets attached to the bottom surface of the handrail within 1 1/2" in finger clearance of sufficient space to point downward in a natural grasping position without encountering the handrail bracket. Contractor to provide full and comprehensive shop drawings by Florida Licensed specialty Engineer for A/E approval, prior to fabrication.



7 **Railing Details**
A.5.2 1-1/2" = 1'-0"



5 **Splash Guard/Downspout**
A.5.2 1-1/2" = 1'-0"

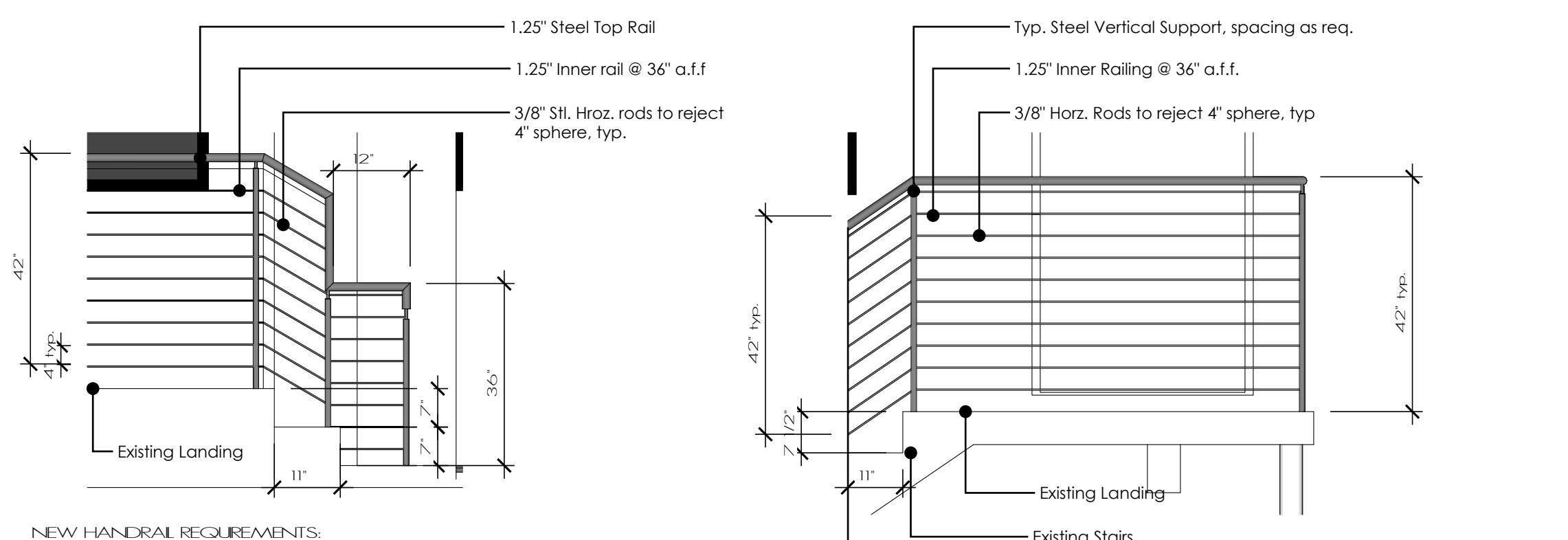
ROOF REPAIR MEMBRANE REQUIREMENTS

Modified 3 Ply Bitumen Roofing called for in this drawings is to be Firestone SBS 3 ply roofing system, NOA # 16-0628.05, Expiration 03/08/26 installed over Firestone Isoguard insulation board. Exact board type to be determined based on substrate type (wood sheathing or concrete decking). Roof Details are shown as a guide, actual EXISTING CONDITIONS MAY VARY.

The contractor shall submit for A/E approval complete shop drawings with all details including current Florida N.O.A. documentation.

DEFERED SUBMITTAL LIST

Submit shop drawings for A/E for approval for following items:
New handrailing to be installed.
Roofing membrane assembly with current N.O.A.
Replacement Windows with N.O.A.
* Contractor shall be aware that some shop drawings will need to be submitted to the City of Miami Building Department as part of this permit.



NEW HANDRAILING REQUIREMENTS:

Handrails shall conform to FBC 7th ed., 2020 section 1029.

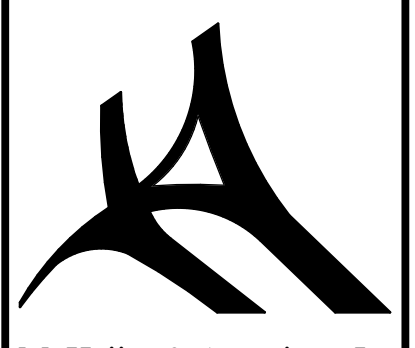
Open guardrails shall have intermediate rails or ornamental patterns such that a 4" dia. Sphere cannot pass through any opening up to a height of 34". A bottom rail or curb shall be provided that will reject that passage of 2" dia. Sphere-FBC 2020.

Hand railing to be fabricated of steel, sizing of top and intermediate railing at 1.25" diameter. Typical horizontal steel rods to be minimum of 3/8" diameter. Spacing shall be vertically to reject a 4" sphere, typical for all conditions. Vertical supports to be spaced as per engineering shop drawings to allow minimal deflection of any horizontal members. Base anchorage shall be imbedded into existing slabs with non-shrink epoxy grout & decorative cover plate. Contractor shall submit engineered shop drawings signed and sealed by a Florida licensed specialty engineer for A/E approval.

Provide concealed wall plate and fasten to 8" cmu wall w/ (2) 3/4" stainless steel bolts w/ masonry anchors @ 36" o.c. max.

Provide 1 1/2" stainless steel handrail continuous throughout length of stair attached to wall Beyond. Typical at both stair conditions. Include section and details in shop drawings for A/E Approval.

2 **Typ. Stair Rail Details & Requirements**
A.5.2 1/2" = 1'-0"



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PROJECT: 40 Year Recertification Repairs
DRAWING: Details
DATE: 11/22/2022
SCALE: As Shown
DRAWN: LFP
REVIEWED: MH
PROJ. NO.: 01-2887-2022
SHEET NO.:

A.5.2

System No. C-AJ-1291

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 30-7/8 in. (784 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrant — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.

F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

3. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Firestop Systems
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 07, 2015

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

HILTI Firestop Systems
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015

System No. C-AJ-3095

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0, 1/2 and 3/4 Hr (See Item 3)	FT Ratings — 0, 1/2 and 3/4 Hr (See Item 3)
	FH Rating — 3 Hr
	FTH Ratings — 0, 1/2 and 3/4 Hr (See Item 3)

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m³) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 Hr.

3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:

A. Max 500 kcmil single copper conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T, FT and FTH Rating is 0 Hr.

B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XLPE) insulation. When single aluminum conductor power cable is used, T Rating is 0 Hr. When single copper conductor power cable is used, T, FT and FTH Rating is 1/2 Hr.

C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T, FT and FTH Rating is 0 Hr.

D. Max three copper conductor No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-conductor power cable is used, T Rating is 0 Hr.

E. Max 7/16 copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multi-conductor power and control cable is used, T, FT and FTH Rating is 3/4 Hr.

F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T, FT and FTH Rating is 3/4 Hr.

G. Max 3/16 copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable*. When MC cable is used, T, FT and FTH Rating is 0 Hr.

AFC CABLE SYSTEMS INC

HILTI Firestop Systems
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 14, 2015

System No. W-L-3320

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 & 2 Hr (See Item 1)	F Ratings — 1 & 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 & 2 Hr (See Item 1)
	FTH Rating — 0 Hr

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. Sleeve — Nom 3 in. (76 mm) diam (or smaller) steel EMT, steel conduit or Schedule 5 (or heavier) steel pipe. The annular space between sleeve and periphery of opening shall be min. 0 in. (point contact) to max 1 in. (25 mm). Maximum projection from wall is 12 in. (305 mm). Sleeve to be rigidly supported on penetrated side of the wall assembly.

HILTI Firestop Systems
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

System No. C-AJ-8099

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0 and 3/4 Hr (See Item 2)	FT Ratings — 0 and 3/4 Hr (See Item 2)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 3/4 Hr (See Item 2)

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 5 in. (127 mm) reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Max area of square, rectangular or circular opening is 192 sq in. (1239 cm²) with max dimension of 24 in. (61 cm). When Precast Concrete Unit floors are used, max area of square, rectangular or circular opening is 49 sq in. (316 cm²) with max dimension of 7 in. (17.8 cm).

2. Through-Penetrant — One or more pipes or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The separation between cable bundle, tubes and insulated tubes shall be a min 1/2 in. (13 mm) to max 3-1/8 in. (79 mm). The annular space between penetrants and the periphery of opening shall be a min 1/2 in. (13 mm) to max 5 in. (127 mm). Pipes or tubes to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubes may be used:

A. Copper Tubing — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.

B. Copper Pipe — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

E. Conduit — Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or steel conduit.

F. Flexible Steel Conduit* — Nom 1 in. (25 mm) diameter (or smaller) flexible steel conduit.

See Flexible Metal Conduit (DXLZ) category in the Electrical Construction Material Directory for names of manufacturers.

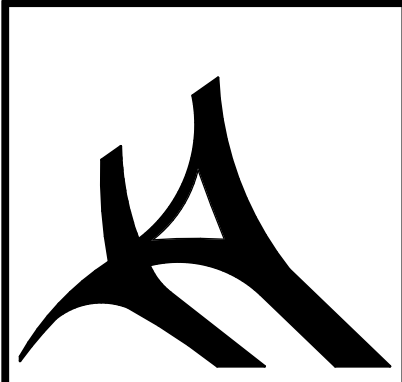
G. Through Penetrating Product* — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:

HILTI Firestop Systems
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Hilti - FIRE STOP SHOP DRAWING SUBMITTAL REQUIREMENTS:

Contractor shall coordinate drawings and all required repairs on site. These details are supplied for a methodology of repair for any areas with missing or damaged fire stopping materials.

All penetrations shall have a minimum of 2 hour fire rating. The General Contractor shall use only HILTI or A/E accepted equal fire stop materials, as per HILTI published shop drawing requirements. The general contractor shall submit to A/E cut sheets of all Fire Stop materials to be utilized on this project, for A/E review and approval.



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